CITY OF MOUNT DORA

Leisure Services
900 N. Donnelly St.
Mount Dora, FL 32757
352-735-7183
Fax: 352-735-3681
E-mail: parksandrec@cityofmountdora.com

PARKS AND RECREATION
ADVISORY BOARD MEETING
City Hall Board Room, 510 N. Baker Street, Mount Dora, FL 32757
November 15, 2021 at 5:30 PM

AGENDA

I. Call to Order

II. Roll Call

III. Approval of Minutes

A. October 18, 2021 Parks and Recreation Advisory Board Meeting Minutes

IV. Public Comment

V. Presentations

VI. Action Items

A. Approval of 60% Design and Construction Documents and Application for the African-American Cultural and Historical Grant for the Renovation of Cauley Lott Park

B. Approval of 60% Design and Construction Documents for Lincoln Avenue Pool Renovation Phase II

C. Approval of 60% Design and Construction Documents for the Triangle Elementary Joint-use Playground

D. Approval of 60% Design and Construction for the Canoe and Kayak Launch at Palm Island Park

VII. Resolutions

A. Resolution No. 2021-123, City Facility Naming Policy

VIII. Ordinances

IX. Discussion Items

X. City Staff

A. Cultural and Special Events Update

XI. Communications and Reports

A. Board Member Wendy Appleby

B. Board Member Kate Barnard

C. Board Member Derrick Campbell

D. Board Member Rick Cooper

E. Board Member William Larkin

F. Board Member Alternate Don Stuart

G. Board Member Alternate Marsha Blum

H. Vice-chair Amy Fortenberry

I. Chair Mark Woerner

XII. Future Meeting Dates

A. Thursday, January 20, 2022, 5:30 p.m.

B. Thursday, February 24, 2022, 5:30 p.m.

C. March 21, 2022, 5:30 p.m.

XIII. Adjournment

NOTICE: Please note that, for purposes of Section 286.011, Florida Statutes, two or more members of the City Council may be present at this meeting, and this meeting may be considered a City Council meeting.

NOTICE: If any person decides to appeal any decisions at this meeting with respect to any matter considered, such person may need a record of these proceedings. For such purpose, a person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

NOTICE: In accordance with the Americans With Disabilities Act of 1990, persons needing special accommodations to participate in this proceeding should contact Jennifer Schwarz no later than seven (7) days prior to the proceedings. (352) 735-7183 ext. 1605. for assistance. If hearing impaired, telephone the Florida Relay Service numbers (800) 955-8771 (TDD) or (800) 955-8770 (Voice) for assistance.

If you have any comments or question regarding the contents of this agenda packet, please call Jennifer Schwarz at (352) 735-7183 ext. 1605.

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DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: October 18, 2021 Parks and Recreation Advisory Board Meeting Minutes

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Introduction:
This is a request for the Parks and Recreation Advisory Board to approve meeting minutes.

Discussion:
Administrative staff prepare minutes and present them to the Advisory Board as an opportunity to make suggestions or corrections prior to final approval.

Budget Impact:
N/A

Strategic Impact:
N/A

Recommendation
Advisory Board approve minutes as transcribed.

Attachment(s):
1. PRAB Minutes 10-18-21_ADA

Prepared by:	Jeanann Hand, Administrative Coordinatior	
Reviewed by:	Troy Shonk, Leisure Services Administrator	Approved - 11/8/2021
	Amy Jewell, Leisure Services Director	Final Approval - 11/10/2021

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PARKS AND RECREATION
ADVISORY BOARD MEETING
City Hall Boardroom, 510 N. Baker Street, Mount Dora, FL 32757
October 18, 2021 at 5:30 PM

MINUTES

PRESENT: Wendy Appleby, Kate Barnard, Marsha Blum (Alternate), Derrick Campbell, Rick Cooper, Amy Fortenberry, William Larkin, Don Stuart (Alternate), Mark Woerner

ABSENT: None

CITY STAFF: Christopher Carson – Cultural and Special Events Coordinator, Jeanann Hand – Leisure Services Administrative Coordinator, Amy Jewell – Director of Leisure Services, Jen Schwarz - Leisure Services Operations Manager, Troy Shonk – Leisure Services Manager

I. Call to Order

Mr. Woerner called the meeting to order at 5:30 PM.

II. Roll Call

III. Approval of Minutes

A. September 20, 2021 Parks and Recreation Advisory Board Minutes

MOTION by Mr. Larkin, SECONDED by Ms. Appleby to approve the minutes from September 20, 2021.

AYE: Appleby, Barnard, Campbell, Cooper, Fortenberry, Larkin, Woerner

NAY: None

MOTION CARRIED 7-0.

IV. Public Comment

V. Presentations

VI. Action Items

VII. Resolutions

VIII. Ordinances

IX. Discussion Items

X. City Staff

A. Sunshine Law Memorandum
Mr. Shonk read into record a memo composed by City Attorney Sherry Sutphen regarding Board member obligations when participating in conversations on social media.

B. Parks and Recreation Update
Mr. Shonk updated Board members on several projects underway, all of which had all been previously presented to the Board and met with their approval. The projects are part of the Parks and Recreation Master Plan, and the first two were suggested to take place within zero to two years of the Plan's adoption.

Construction documents for the Cauley Lott Park renovation are at 60% and have been reviewed by City staff. The current cost estimate is at $1.8 million, which exceeds the $1.4 million approved by the City for this endeavor. Evergreen Construction is adjusting the plans with suggestions provided by the City. The City is awaiting the revisions. The renovation is being partially funded by a $200,000 LWCF grant with 100% match from the City. Construction is expected to begin in the first half of 2022.

To make up for the shortfall, the City is considering eliminating from the plan the covering for the basketball courts. There is a possibility a proposed recreation center would provide an indoor basketball court, which would satisfy the need for this feature. The budget overage is a result of the rise in material costs since the initial evaluation of the project.

Mr. Shonk reported that Phase II of the Lincoln Pool renovation is underway. The pool is running more efficiently since Phase I was completed. Initial drawings from CPH have been reviewed by staff and the City is now waiting for 60% drawings, which should be ready on October 22nd. A cost estimate will also be presented at that time. City Council approved $1.6 million for the project. It is also being partially funded by a 100% matching $200,000 FRDAP grant. Phase II includes the pool facilities, restrooms, and landscaping. Renovation should take place in the winter of 2021/22. The City is considering adding a shade structure and splash pad.

The Triangle Elementary joint-use playground fills a level of service gap identified in the Parks and Recreation Master Plan. GAI recently submitted a site plan for staff review. Staff and the Lake County School District met with GAI on site to discuss project details, site

plan revisions, and a timeline for the project. Triangle staff and the surrounding community were surveyed regarding playground amenities; the gathered feedback is being reviewed. City staff provided the school with a tree and landscaping approval list, and GAI is getting the site build-ready. Permitting is in process. City Council has approved $1 million for this project, and construction is planned for the summer of 2022.

Mount Dora High School has been awarded the district swim meet, which will be held at the Lincoln Pool on October 22, 2021. Members were advised to be aware of parking and traffic issues related to the event.

The soccer season recently ended, and served 270 participants. The City was forced to put 50 additional potential participants on a wait list due to lack of available space. The City will most likely be running wait lists until more green space is available. Staffing is also falling short.

The grant to convert the softball fields into additional green space was denied, so that project will not be moving forward at this time.

The City's child care program registrations are at an all-time high. The Winter Break Camp sold out quickly.

Mr. Cooper asked about the City partnering with the high school for their football field renovation, in a manner similar to the City's joint-use relationship with Triangle Elementary. Mr. Larkin mentioned the high school field project is at Phase I, which involves renovating the concession area. Mr. Shonk informed Mr. Larkin the City could not apply for a grant for the high school field project, since it does not own the field, but the School Board could apply.

B. Cultural and Special Events Update

Mr. Carson informed Board members about the Craft Fair scheduled to happen during the upcoming weekend. Heavy attendance is expected. Plaid in the Park and the Hobie Wave Regatta, the events that occurred the prior weekend, drew large crowds. An active event season is likely.

Mr. Cooper congratulated the City on the Mabel Norris Reese sculpture installation. He asked about the relocation of the windmill sculpture and was told it is now at Evans Park.

Mr. Cooper asked for assurance the Christmas Parade would not experience the political controversy that occurred at the Independence Day Parade. Mr. Carson replied that the Christmas Parade is sponsored by the Lions Club, which does not allow political participants.

Mr. Carson answered Ms. Blum's questions about Bicycle Festival, which involved about 300 cyclists. Ms. Barnard remarked the festival did not positively impact her downtown

business. She heard similar remarks from neighboring merchants. Mr. Carson advised Board members he is meeting with the event sponsor and will relay the information.

Mr. Stuart told members and staff that the Main Street Leasing Christmas tree will be erected during the first or second week of November. Mr. Stuart's weekend market is doing well.

C. 2022 Parks and Recreation Advisory Board Meeting Dates
Mr. Shonk reviewed the meeting dates set for 2022. Monday meetings in January and February 2022 are rescheduled for Thursdays in observance of national holidays occurring on Mondays during those months.

XI. Communications and Reports

A. Advisory Board Reappointments
Upon request, City staff will provide a letter for members whose terms are expiring and who wish to be reappointed to the Board.

B. Board Member Wendy Appleby
Mr. Shonk responded to a question from Ms. Appleby regarding the Dora Queen docking in Mount Dora. Such an arrangement will not be occurring at this time. He would obtain further information from Public Works and the City's Project Manager regarding the elements of the first and second phases of dock renovations. Ms. Appleby expressed disapproval of the condition of the docks.

C. Board Member Kate Barnard

D. Board Member Marsha Blum

E. Board Member Derrick Campbell

F. Board Member Rick Cooper
In response to a question from Mr. Cooper, Mr. Shonk explained the City Horticulturalist Foreman would oversee the regulation of invasive species at Forest Preserve. Parks staff would maintain the property, and library staff would coordinate the programming.

Mr. Cooper requested more advanced notice for Parks and Recreation Advisory Board items that will be presented at City Council. He expressed dissatisfaction with Council members' breadth of knowledge of Board members' advice regarding agenda items.

G. Board Member William Larkin
Mr. Larkin requested the City consider greater availability of boat docking for visitors to Mount Dora. He mentioned the economic impact he believes such a change would have. He unfavorably compared the recreational docking availability in Mount Dora against that of Tavares.

Board members discussed the scheduling of projects. City staff reminded them that projects were prioritized in the Parks and Recreation Master Plan. According to the Plan, which was approved by Council, projects addressing safety and gaps in level of service will be addressed before additional waterfront docking. The docking item may rank higher for the City's Economic Development Department, but in the Parks and Recreation Master Plan, safety and service were more weighty concerns.

Mr. Larkin wished to see the return to Mount Dora of the Antique Boat Show.

H. Board Member Alternate Don Stuart

I. Vice-Chair Amy Fortenberry

J. Chair Mark Woerner

XII. Future Meeting Dates

XIII. Adjournment

MOTION by Ms. Fortenberry, SECONDED by Ms. Barnard to adjourn the meeting.

AYE: Appleby, Barnard, Campbell, Cooper, Fortenberry, Larkin, Woerner

NAY: None

MOTION CARRIED 7-0.

Meeting adjourned at 6:16 PM.

Mr. Mark Woerner Chairperson	Mr. Troy Shonk Leisure Services Manager

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DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: Approval of 60% Design and Construction Documents and Application for the African-American Cultural and Historical Grant for the Renovation of Cauley Lott Park

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Introduction:

This is a request for Board members to approve 60% Construction Documents and the Application for an African-American Cultural and Historical Grant for the renovation of Cauley Lott Park.

Discussion:

The City of Mount Dora is about to move forward with the renovation of Cauley Lott Park, a project which had been recommended to take place within zero to two years according to the Parks and Recreation Master Plan adopted by the City in February of 2019. The park is well-loved by the community and has been the site of Juneteenth celebrations and the Black Heritage Festival. However, it is aging and, in its current state, is below standard and unsafe. The Master Plan's suggested adaptations include upgrading amenities evaluated to be below City expectations, correcting safety hazards, modifying features for ADA accessibility, and improving lighting for better security and community use.

In December 2019, with the support of the Parks and Recreation Advisory Board, City Council approved acceptance of a $200,000 LWCF grant for the park renovation. Later, with Resolution No. 2020-08, Council authorized City staff to move forward with stakeholder meetings, a park concept plan, engineering and design documents, permitting, and a scope of work with GAI Community Solutions Group. The project received overwhelming support from the community. After GAI presented the first concept plan and cost estimate, the North East CRA Advisory Committee and Parks and Recreation Advisory Board offered their feedback, and GAI returned with a revised plan addressing a concern both bodies voiced regarding parking. With Resolution No. 2021-06, Council approved an amended task authorization for additional engineering and design services with GAI.

Last September, GAI produced 60% design and construction documents, the stage at which it had been agreed the City would review the plans to approve or make adjustments to bring the project through to completion. At that time, it was found that the current design exceeds the project budget. City staff met several times to decide upon alterations to the presented design that would alleviate the overage while still maintaining the objectives defined for the park renovation. Among the features under consideration for removal or adjustment is the covering for the basketball courts. This element was requested by the community, but its priority fell beneath other features integral to the park that must be upgraded for purposes of safety or necessity.

City staff was recently made aware of the African-American Cultural and Historical grant program awarded by the Florida Department of State, providing funding for facilities that highlight the contributions, culture, or history of African-Americans. This grant prioritizes projects that encourage the design or construction of a new facility or the renovation of an existing facility in an area with great cultural significance. The appropriateness with which the Cauley Lott Park renovation matches the grant description indicates this may be an excellent opportunity for the City to avoid eliminating project elements for which the community has expressed enthusiasm. Funding from the African-American Cultural and Historical Grant would allow the covering for the basketball courts and other items requested by the community to remain as part of the renovation plan.

Mount Dora's North East Community has a significant role in the history of the City and its African American residents. First known as “East Town,” the neighborhoods that make up the area have become the cultural and historic center for Mount Dora’s African American community. The original name for Cauley Lott Park was Mount Dora Central Park, a title bestowed upon it by the winners of a contest held for the students of Milner-Rosenwald Academy and Roseborough Elementary, two schools which served the City's black community until the integration of public schools in the 1970s. In 1982, the park was renamed for Cauley Lott, who was principal of Milner-Rosenwald for 31 years and Mount Dora's first black City Council member.

The African-American Cultural and Historical Grant will be awarded in the spring of 2022, with funds available July 1, 2022, at which time the City must be prepared to match the award. The deadline for the grant application is November 30th, and, once awarded, the funds must be spent within 24 months. The grant application is being presented to City Council for their approval on November 16, 2021.

The 60% construction documents, cost estimate, and grant application are attached for Board members' review.

Budget Impact:

The total amount budgeted by the City for the Cauley Lott Park renovation is $1,523,675. The project is currently approximately $500,000 over budget, according to estimates. The City would like to apply for a $600,000 grant award, for which the matching requirement from the City would be $50,000. If the grant application is approved by City Council, a budget amendment will be submitted for the grant match.

Strategic Impact:
This item fulfills Objective 2.3 of the City's Strategic Plan, developing a parks and recreation system guided by the principles of the Parks and Recreation Master Plan; and Goal 3.1.1, pursuing grants to fund City projects.

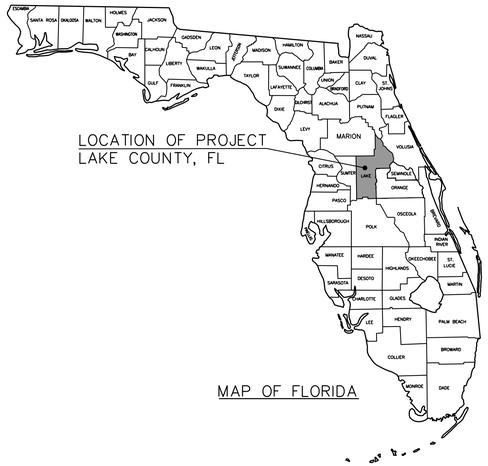
Recommendation City staff is requesting the Board members review the 60% construction documents and bring any concerns to the attention of the staff and support the application for the African-American Cultural and Historical Grant to supplement the funding for the project.

Attachment(s):
1. Attachment 1 Cauley Lott Park 60% CDs
2. Attachment 2 Cauley Lott Cost Estimate_ADA
3. Attachment 3 African American Cultural and Historical Grant Application

Prepared by:	Jeanann Hand, Administrative Coordinatior	
Reviewed by:	Troy Shonk, Leisure Services Administrator	Approved - 11/10/2021
	Amy Jewell, Leisure Services Director	Final Approval - 11/10/2021

CAULEY LOTT PARK
CITY OF MOUNT DORA
LAKE COUNTY, FLORIDA

PARCEL ID 29-19-27-0002-000-06600 &
29-19-27-0050-107-00004



PREPARED BY

gai consultants

EB 9951

618 EAST SOUTH STREET SUITE 700
ORLANDO, FLORIDA 32801
PHONE: (407) 423-8398

LEGAL DESCRIPTION:

ALT KEY: 1709016
THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 29, TOWNSHIP 19 SOUTH, RANGE 27 EAST, LAKE COUNTY, FLORIDA. ALSO KNOWN AS BLOCK 94 OF UNRECORDED FIRST ADDITION TO CITY OF MOUNT DORA, SURVEYED BY T.O. MOORHEAD AND APPROVED BY CITY COUNCIL OF MOUNT DORA AUGUST 21, 1956.

ALT KEY: 3814763
THE EAST 205 FEET OF BLOCK 107, SECTION 29, TOWNSHIP 29 SOUTH, RANGE 27 EAST, CITY OF MOUNT DORA, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 3, PAGE 37 THROUGH 43, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, LESS THE SOUTH 80 FEET THEREOF.

SUBJECT TO ALL OTHER EASEMENTS, RESTRICTIONS, RIGHTS-OF-WAY, RESERVATIONS OR RECORD AND TAXES ACCRUING SUBSEQUENT TO DECEMBER 31, 2002.

PROJECT TEAM:

OWNER:
CITY OF MOUNT DORA
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MOUNT DORA, FL 32757
PHONE: (352) 735-7161 EXT. 3100
CONTACT: AMY JEWELL
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CIVIL ENGINEER:
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UTILITY PROVIDERS:

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PH: (352) 735-7151

RECLAIMED WATER:
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FIRE PROTECTION:
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501 W. MEADOW ST.
LEESBURG, FL 34748
PH: (352) 728-9800

AUGUST 2021

LOCATION MAP
NTS

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S1.301	STRUCTURAL SECTIONS AND DETAILS
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S3.101	FOUNDATION PLAN
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COMMUNITY SOLUTIONS GROUP

gai consultants

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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL

REGISTRATION

SHEET TITLE

COVER

SHEET NUMBER

C-000

A GAI CONSULTANTS, INC SERVICE GROUP

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This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

GENERAL NOTES:

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL FIELD LOCATE, VERIFY, AND FURTHER IDENTIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (IDENTIFIED ON THE PLANS OR NOT) AFFECTING ANY COMPONENT OF WORK HEREIN PRIOR TO THE START OF ANY CONSTRUCTION. DISCREPANCIES, CONFLICTS, OR POTENTIAL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION.

2. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO THE START OF ANY CONSTRUCTION. SPECIAL ATTENTION SHALL BE TAKEN WITH THOSE EXISTING UTILITIES, STRUCTURES OR FEATURES (IDENTIFIED ON THE PLANS OR NOT) THAT MAY POTENTIALLY CONFLICT OR CROSS PROPOSED DESIGN COMPONENTS (I.E., STORM SEWERS, SANITARY SEWERS, WATER MAINS, EXFILTRATION, BUILDING FOUNDATIONS, ETC) AND ANY DISCREPANCIES, CONFLICTS, OR POTENTIAL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION. ANY COST ASSOCIATED WITH THE LOCATION OF EXISTING UTILITIES AS OUTLINED ABOVE IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. ERRORS OR OMISSIONS – DO NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION DISCOVERED IN THE CONTRACT DOCUMENTS, BUT IMMEDIATELY NOTIFY THE ENGINEER OF SUCH DISCOVERY. THE ENGINEER WILL THEN MAKE SUCH CORRECTIONS AND INTERPRETATIONS AS NECESSARY TO REFLECT THE ACTUAL SPIRIT AND INTENT OF THE CONTRACT DOCUMENTS.

4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48–HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES.

5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTS, AND ANY DISTURBED MONUMENTS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE BY A SURVEYOR SELECTED BY THE OWNER.

6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND PASS ALL TESTING OR INSPECTION REQUIREMENTS PRIOR TO ROAD BASE AND/OR SURFACE IMPROVEMENT CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS AND TESTING ACCORDING TO AGENCY REQUIREMENTS.

8. ALL WORK PERFORMED SHALL COMPLY WITH THE CODES, STANDARDS, REGULATIONS AND REQUIREMENTS OF THE MUNICIPALITY'S LAND DEVELOPMENT CODE AND ENGINEERING STANDARDS, PLUS CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND UTILITY CONSTRUCTION, PLUS THE REGULATIONS AND ORDINANCES OF THE VARIOUS OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.

9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION COULD RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS IS FOR CONFORMITY WITH THE CONTRACT DOCUMENTS AND DOES NOT INCLUDE IN–DEPTH CHECK FOR THE ABILITY OF THE CONTRACTOR TO PERFORM THE WORK IN A SAFE OR EFFICIENT MANNER. THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DIMENSIONAL ACCURACY TO ENSURE FIELD FIT AND CONFORMITY OF THE VARIOUS COMPONENTS AND DETAILS.

10. CONTRACTOR SHALL KEEP ENGINEER ADVISED OF CONSTRUCTION SCHEDULE CHANGES SO THAT ENGINEER CAN SCHEDULE PERIODIC SITE VISITS AT APPROPRIATE TIMES IN ORDER TO PROVIDE CONSTRUCTION CERTIFICATIONS TO JURISDICTIONAL AGENCIES.

11. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON OR ADJACENT TO THE SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

12. SAFETY:
    A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
    B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
    C. THE MAINTENANCE OF TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MUNICIPALITY'S TRANSPORTATION ENGINEERING BUREAU AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
    D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
    E. CONTACT THE MUNICIPALITY FOR MANAGEMENT OF TRAFFIC CONTROL REVIEW PRIOR AND DURING CONSTRUCTION.

13. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR DEWATERING. DISCHARGE WATER FROM DEWATERING SHALL BE CLEAR WITH NO VISIBLE SOIL PARTICLES. DISCHARGE WATER FROM DEWATERING SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH THE NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, OR CREATE PONDING. THE OPERATION SHALL NOT CAUSE ANY DAMAGE TO ANY PORTION OF THE WORK COMPLETED, OR IN PROGRESS. THE DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. A PRE–WORK MEETING WILL BE CONDUCTED WITH THE GEOTECHNICAL FIRM, THE OWNER, THE CONTRACTOR, AND THE ENGINEER PRIOR TO BEGINNING ANY SITE EXCAVATION.

14. CONFORMITY WITH WORK – IN THE EVENT THAT THE ENGINEER FINDS THAT THE CONTRACTOR HAS USED MATERIAL OR PRODUCED A FINISH PRODUCT THAT IS NOT REASONABLY CLOSE IN CONFORMITY WITH THE CONTRACT DOCUMENTS, I.E. UNSATISFACTORY PRODUCT, THE CONTRACTOR SHALL REMOVE AND REPLACE OR OTHERWISE CORRECT THE WORK OR MATERIALS AT NO EXPENSE TO THE OWNER.

15. "AS–BUILT" FOR THE PROPOSED CONSTRUCTION SHALL BE PROVIDED UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS–BUILT" INFORMATION CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR. ONCE PROVIDED WITH "AS–BUILTS" AND AFTER OBSERVATION OF THE ENTIRE PROJECT, SHOULD THE ENGINEER DETERMINE THAT THE CONTRACTOR HAS SATISFACTORILY COMPLETED THE WORK, THE ENGINEER WILL GIVE THE CONTRACTOR WRITTEN NOTICE OF FINAL ACCEPTANCE.

16. PIPE LENGTHS SHOWN ARE APPROXIMATE AND SHOULD BE ORDERED FROM FIELD STAKED QUANTITIES. PLAN PIPE LENGTHS ARE MEASURED FROM CONNECTION POINT TO END OF THE LINES FOR WATER LINES.

17. WHEN APPLICABLE, THE CONTRACTOR MUST REVIEW "MAINTENANCE OF UTILITY SERVICE PLAN" WITH ENGINEER AND UTILITY COMPANY PRIOR TO START OF UTILITY CONSTRUCTION.

GOVERNING SPECIFICATIONS:

1. NO CONSTRUCTION MAY COMMENCE UNTIL APPROPRIATE PERMITS ARE OBTAINED FROM ALL MUNICIPAL, COUNTY, STATE, AND/OR FEDERAL AGENCIES.

2. GRADING, DRAINAGE AND PAVING MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MUNICIPAL ENGINEERING STANDARD MANUAL (ESM) AND THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS SUPPLEMENTED BY DETAILS AND NOTES ON THESE PLANS.

3. CONFORM WITH REQUIREMENTS OF THE NOTICE OF INTENT (NOI) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE PERMIT AS ISSUED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).

4. CONFORM WITH REQUIREMENTS OF THE ENVIRONMENTAL RESOURCES PERMIT (ERP) AS ISSUED BY THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT (SJRWMD).

5. SANITARY SEWER SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE UTILITY PROVIDER STANDARD ENGINEERING DETAILS AS SUPPLEMENTED BY THESE PLANS AND THE THE PERMIT CONDITIONS LISTED IN THE FDEP SEWER EXTENSION PERMIT.

6. WATER DISTRIBUTION SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE UTILITY PROVIDER STANDARDS AND SPECIFICATIONS AS SUPPLEMENTED BY THESE PLANS AND THE PERMIT CONDITIONS LISTED IN THE FDEP WATER MAIN EXTENSION PERMIT.

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CLEARING AND GRUBBING NOTES:

1. PRIOR TO CLEARING AND GRUBBING, ALL SILT FENCE EROSION CONTROL DEVICES AND SEDIMENT CONTROL BASINS AND/OR BMP'S SHALL BE INSTALLED AND OPERATIONAL.

2. ALL INDICATED MATERIALS TO BE CLEARED, GRUBBED AND REMOVED FROM THE CONSTRUCTION AREA INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: ALL TREES, STUMPS, ROOTS, BRUSH, TRASH, ORGANIC MATTER WITHIN THE SITE, CURBING, PAVING, MISCELLANEOUS STRUCTURES (IF ANY), AND OTHER DEBRIS.

3. GRUBBING SHALL CONSIST OF COMPLETELY REMOVING ROOTS, STUMPS, TRASH AND OTHER DEBRIS FROM SITE, SO THAT THE TOPSOIL IS FREE OF ROOTS AND DEBRIS. TOPSOIL IS TO BE LEFT SUFFICIENTLY CLEAN SO THAT FURTHER PICKING AND RAKING WILL NOT BE REQUIRED.

4. BURNING OF TREES, ROOTS, OR ANY KIND OF MATERIALS WILL NOT BE ALLOWED ANYWHERE ON THE SITE.

5. THE CONTRACTOR SHALL EXERCISE SPECIAL PRECAUTIONS FOR THE PROTECTION AND PRESERVATION OF TREES, SOD, FENCES, ETC., SITUATED WITHIN THE VICINITY OF THE PROJECT AREA OR TREE SAVE AREAS BUT NOT DIRECTLY WITHIN EXCAVATION AND/OR FILL LIMITS. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE AS A RESULT OF HIS OPERATIONS.

6. TREES WHICH ARE SEVERELY DAMAGED OR DESTROYED BY CLEARING OPERATIONS OUTSIDE THE CLEARING LIMITS WILL BE PAID FOR BY THE CONTRACTOR IN WHOLE. MINOR DAMAGE INFLICTED TO TREE BRANCHES AND TRUNKS WILL BE REPAIRED, AT NO COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING TREE PROTECTION FENCING AROUND TREE SAVE AREAS WITHIN THE SITE, AS SHOWN ON PLANS OR DIRECTED BY THE MUNICIPAL AUTHORITY. THE TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND REQUIREMENTS.

EXCAVATION, GRADING, AND PAVING NOTES:

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY.

3. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

4. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.

5. DISPOSAL OF ANY EXCESS EARTHWORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

7. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH A.D.A. STANDARDS.

8. CONTRACTOR SHALL SAW–CUT EXISTING PAVEMENT TO PROVIDE CLEAN JOINT. REMOVE EXISTING PAVEMENT FOR NEW INSTALLATION AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

9. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND PASS ALL TESTING OR INSPECTION REQUIREMENTS PRIOR TO ROAD BASE AND/OR SURFACE IMPROVEMENT CONSTRUCTION.

10. REFER TO THE CURRENT EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING CALLED FOR IN THESE PLANS.

11. REFER TO THE CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR SPECIFICATIONS ON PAVING MATERIALS.

12. CONTRACTOR TO PROVIDE A 1/2–IN. BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER WHERE CONCRETE ABUTS BUILDINGS, OTHER CONCRETE, OR OTHER RIGID MATERIALS.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED AT CONTRACTOR'S EXPENSE BY A SURVEYOR SELECTED BY THE OWNER.

14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE SOILS ENGINEER FOR APPLICABLE TESTING UPON COMPLETION OF THE WORK. THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

15. TESTING AND INSPECTION TO BE PERFORMED BY A QUALIFIED INDEPENDENT TESTING LABORATORY, UNDER THE SUPERVISION OF A REGISTERED ENGINEER, SPECIALIZING IN SOILS ENGINEERING. PERFORM ALL TESTING NECESSARY AS REQUIRED BY THESE PLANS AND THE VARIOUS PERMITTING AGENCIES. THE CONTRACTOR WILL PAY THE COSTS OF ALL INITIAL TESTING. SHOULD RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET SPECIFICATIONS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.

UTILITY SYSTEM NOTES:

1. CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY OWNERS AND FLORIDA'S "SUNSHINE ONE–CALL" SYSTEM 72–HRS PRIOR TO STARTING CONSTRUCTION. COST OF REPLACEMENT AND REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE CONTRACTOR'S RESPONSIBILITY.

2. WORK IN THE PUBLIC RIGHT–OF–WAY SHALL BE COORDINATED WITH GOVERNING AUTHORITIES. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND PAY REQUIRED FEES, AND COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS APPLICABLE TO CONSTRUCTION OF THE PROJECT.

3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR PERFORMING WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR INTERRUPTION OF ALL UTILITIES UNDER THE JURISDICTION OF THE UTILITY COMPANIES.

4. EXISTING OUT–OF–SERVICE BURIED UTILITIES ENCOUNTERED WITHIN THE PROPOSED PROJECT SHALL BE REMOVED WHEN WITHIN THE EXCAVATED AREA AND SLURRY FILLED BY THE CONTRACTOR ALONG OTHER AREAS WITHIN THE WORK ZONE. DISPOSITION AS DIRECTED BY THE UTILITY'S OWNER. NO ABANDONMENT OF UTILITY LINES ARE ALLOWED UNDER BUILDINGS WITHOUT THE PROJECT'S ENGINEERS APPROVAL.

5. CONFLICTS BETWEEN UNDERGROUND UTILITIES, I.E. WATER, ELECTRICAL, COMMUNICATIONS, GAS, AND STORM OR SANITARY SEWERS SHALL BE RESOLVED BY ADJUSTING THE UNDERGROUND UTILITIES AS NECESSARY, AND IS INCLUSIVE IN CONTRACTORS COST. GRAVITY SEWERS SHALL NOT BE ADJUSTED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND THE MUNICIPALITY'S WASTEWATER DIVISION.

6. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK WITH EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE A MINIMUM OF 72–HRS IN ADVANCE OF THE PROPOSED WORK, AND PRIOR TO SHOP DRAWINGS SUBMITTALS, WHEN APPLICABLE. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER IF THERE IS A CONFLICT. INFORMATION TO BE FURNISHED BY THE CONTRACTOR SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.

7. UTILITY APPURTENANCES SHALL MEET THE FOLLOWING REQUIREMENTS: A) BE AESTHETICALLY ACCEPTABLE. B) IN COMPLIANCE WITH INDUSTRY AND MANUFACTURER'S STANDARDS. C) PLACED IN AREA WITH THE MINIMUM INTERFERENCE TO THE OPERATIONAL AND MAINTENANCE OF THE SITE. D) NOT IN CONFLICT WITH OTHER FACILITIES AND AS CLOSE TO THE RIGHT–OF–WAY AS POSSIBLE.

8. CONTRACTOR SHALL PROVIDE FOR THE TEMPORARY SUPPORT AND PROTECTION OF EXISTING UTILITIES WITHIN THE WORK ZONE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUACY OF THESE METHODS I.E. ALL SHEETING, SHORING, AND BRACING SYSTEMS.

9. THE CONTRACTOR SHALL PROVIDE APPLICABLE TEST RESULTS FOR THE PURPOSE OF CERTIFICATIONS REQUIRED BY THE FDEP OR OTHER GOVERNING AGENCY HAVING JURISDICTION. TESTING AND CERTIFICATION SHALL INCLUDE BUT ARE NOT LIMITED TO: WATER LINE, SANITARY SEWERS, TRENCH BACKFILL AND COMPACTION, PAVING MATERIALS.

10. SANITARY SEWERS AND WATER MAINS SHALL NOT BE PLACED INTO SERVICE UNTIL A CLEARANCE LETTER/CERTIFICATION OF COMPLETION IS RECEIVED FROM FDEP FOR THE PROJECT.

COMMUNITY SOLUTIONS GROUP

gai consultants

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ORLANDO, FL 32801
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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

C-001

A GAI CONSULTANTS, INC SERVICE GROUP

Z:\INFRA\2017\A171115.07 – CAULEY & LILLIE MP\AD\PRODUCTION DRAWINGS\A171115.07 – C-001 GENERAL NOTES.DWG
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

STORMWATER SYSTEM NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY INVERTS AND LOCATIONS OF THE EXISTING STORM SEWER SYSTEM PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DISCREPANCY IN INVERTS AND LOCATIONS EXIST.
2. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL CONSTRUCTION MATERIALS, METHODS, AND TESTING ARE TO CONFORM TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AND ITS CURRENT SUPPLEMENTS AND STANDARD DRAWING INDEX, PLUS THE MUNICIPAL AUTHORITY'S ENGINEERING STANDARDS AND SPECIFICATIONS, AS APPLICABLE.
3. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND PAY REQUIRED FEES AND COMPLY WITH LOCAL REGULATIONS APPLICABLE TO CONSTRUCTION OF STORM SEWER SYSTEM.
4. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, PRODUCT INFORMATION/CUT SHEETS, AND/OR CERTIFICATIONS FOR ALL STORM WATER STRUCTURES, STORM SEWER PIPES, AND CONCRETE DESIGN MIX.
5. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN EXISTING STORM SEWER SYSTEM IN SERVICE.
6. SURFACE DRAINAGE SHALL BE DIVERTED FROM EXCAVATIONS, AND STOCKPILE AREAS SUCH THAT PROPER SITE CONDITIONS ARE MAINTAINED AND EROSION DUE TO RAIN RUN-OFF OR SEEPAGE IS PREVENTED OR MINIMIZED.
7. CONTRACTOR SHALL ADJUST THE EXISTING STORM MANHOLES AS REQUIRED TO MEET PROPOSED FINISHED GRADES. THE MANHOLES MAY BE LOWERED OR EXTENDED.
8. POINTS OF CONNECTION TO BUILDING STORM DRAINAGE SYSTEM SHOWN ARE APPROXIMATE. REFER TO MEP PLANS FOR LOCATION AND CONNECTION REQUIREMENTS AND THE COST OF ADJUSTMENTS IS INCLUSIVE TO THE CONTRACTOR.
9. ALL STORM SEWER SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS SERIES 200. UNLESS OTHERWISE NOTED ON PLANS.
10. ALL STORM DRAINAGE STRUCTURE GRATES AND COVERS WITHIN VEHICLE TRAFFIC AREA SHALL BE TRAFFIC RATED FOR H-20 LOADINGS, UNLESS OTHERWISE NOTED ON PLANS. ALL STORM DRAINAGE STRUCTURES WITHIN NON-TRAFFIC AREAS SHALL BE CONSTRUCTED WITH PEDESTRIAN TRAFFIC BEARING GRATES.
11. ALL DISTURBED SODDED AREAS IN THE VICINITY OF THE WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
12. CONTRACTOR TO NOTIFY THE ENGINEER 48-HOURS IN ADVANCE TO SCHEDULE INSPECTIONS. THE STORM DRAINAGE PIPING STRUCTURES SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL.
13. THE STORM SYSTEM WILL BE RE-INSPECTED BY THE OWNER'S ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. ALL STORM PIPES NEED TO BE VIDEO TAPED (CCTV) AND LASER PROFILED IN ACCORDANCE WITH MUNICIPAL AND FDOT STANDARDS AND REGULATIONS.
14. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT PLANS SIGNED AND SEALED BY A REGISTERED SURVEYOR UPON COMPLETION OF THE PROJECT. THE CONTRACTOR NEEDS TO PROVIDE CCTV VIDEO AND LASER PROFILE REPORT TO THE ENGINEER.

WATER MAIN SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, PRODUCT CUT SHEET AND/OR SPECIFICATIONS AND/OR CERTIFICATIONS FOR THE WATER LINE SYSTEM AND APPURTENANCES, I.E. GATE VALVES, FIRE HYDRANTS, FDC, PIV AND CHECK VALVES, PLUS CONCRETE DESIGN MIX, WHEN APPLICABLE.
2. CONFLICTS BETWEEN UNDERGROUND UTILITIES, I.E. WATER, ELECTRICAL, COMMUNICATIONS, GAS, AND STORM OR SANITARY SEWERS SHALL BE RESOLVED BY ADJUSTING THE UNDERGROUND UTILITIES AS NECESSARY, AND IS INCLUSIVE IN CONTRACTORS COST. GRAVITY SEWERS SHALL NOT BE ADJUSTED WITHOUT PRIOR APPROVAL OF THE PROJECT'S ENGINEER.
3. WATER MAINS SHALL HAVE A MINIMUM 36" OF COVER AND MAINTAIN SEPARATIONS IN CONFORMANCE TO THE FDEP PERMIT REQUIREMENTS (FAC 62-604-400). REFER TO THE WATER MAIN SEPARATION DETAIL. WATER MAINS SHALL BE CONSTRUCTED ABOVE SEWER LINES, UNLESS OTHERWISE SHOWN ON THE PLANS.
4. DUCTILE IRON PIPE (DIP) MANUFACTURED TO ANSI/AWWA C151/A21.51, SUPPLIED WITH RUBBER GASKET PUSH-ON JOINTS IN ACCORDANCE WITH ANSI/AWWA C111/A21.11 WITH MINIMUM PRESSURE CLASS 350, AND CLASS 250 FOR PIPE LARGER THAN 12-INCHES, UNLESS OTHERWISE NOTED IN THE PLANS. ALL DIP SHALL BE CEMENT-MORTAR LINED PER ANSI/AWWA C104/A21.4 AND RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI/AWWA C151/A21.51. THE FINAL EXTERIOR COLOR SHALL BE BLUE FOR POTABLE WATER.
5. POLYVINYL CHLORIDE (PVC) WATER MAIN PIPING SIZES 4" THROUGH 12" DIAMETER SHALL BE PRESSURE CLASS 150 (DR-18) CONFORMING TO ANSI/AWWA C900, UNLESS OTHERWISE SHOWN ON THE PLANS.
6. POLYETHYLENE (PE) PIPE AND TUBING SIZES 1/2" THROUGH 3" DIAMETER SHALL BE PRESSURE CLASS 200 (DR-9) CONFORMING TO ANSI/AWWA C901-08, UNLESS OTHERWISE SHOWN ON THE PLANS.
7. ALL WATER LINES SHALL BEAR THE "NSF" LOGO AND SHALL CONFORM TO THE UTILITY COMPANY'S (OUC) LIST OF APPROVED PRODUCTS.
8. DIP AND FITTINGS PLACED WITHIN 50-FT OF EXISTING GAS MAINS SHALL BE POLYETHYLENE ENCASED.
9. ALL NON-METALLIC WATER MAIN PIPES INSTALLED SHALL HAVE PROVISIONS FOR ELECTROMAGNETIC DETECTION CONFORMING TO THE REQUIREMENTS OF THE UTILITY COMPANY.
10. DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10, WITH 250 PSI WORKING PRESSURE RATING. FITTINGS SHALL BE CEMENT MORTAR LINED AND BITUMINOUS COATED EXTERIOR IN ACCORDANCE WITH ANSI/AWWA C104/A21.4. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THESE FITTINGS SHALL INCORPORATE RESTRAINED RINGS, SUCH AS "MEGA-LUGS" OR OTHER APPROVED EQUIVALENT MECHANICAL DEVICE.
11. THE TYPE OF VALVE BOXES/VALVE COVERS, SHALL BE IN ACCORDANCE WITH THE MUNICIPAL AND UTILITY COMPANY STANDARDS, UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS. ALL FASTENERS MUST BE MANUFACTURED OF NON-CORROSIVE MATERIALS.
12. THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS AS REQUIRED. CONCRETE ENCASEMENT OF PIPES IS NOT PERMITTED.
13. POINTS OF CONNECTION OF THE SITE WATER SERVICE, I.E. POTABLE, FIRE AND IRRIGATION, SHALL COINCIDE WITH BUILDING PLUMBING AND/OR FIRE PROTECTION PLANS AND/OR IRRIGATION PLANS, AS APPLICABLE. CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE.
14. FIRE LINES TO BUILDINGS WITH FIRE SPRINKLER SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR DULY LICENSED BY THE STATE FIRE MARSHAL'S OFFICE. THE PRIVATE SERVICE FIRE MAIN SYSTEM MUST COMPLY WITH NFPA 24 "INSTALLATION OF PRIVATE SERVICE FIRE MAINS AND THEIR APPURTENANCES, EDITION 2010". WHEN USING PVC PIPES LINES MUST BE A MIN. PRESSURE CLASS 200 (DR-14) AND FULLY RESTRAINED.
15. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS AT THE END OF WATER SERVICE LATERALS TO BUILDINGS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.
16. THE CONTRACTOR SHALL PROVIDE APPLICABLE TEST RESULTS AND AS-BUILT PLANS CERTIFIED BY A REGISTERED SURVEYOR FOR THE PURPOSE OF CERTIFICATIONS REQUIRED BY THE FDEP OR ANY OTHER GOVERNING AGENCY HAVING JURISDICTION.
17. TESTING AND CERTIFICATION SHALL INCLUDE BUT ARE NOT LIMITED TO THE WATER LINE INSTALLATION BACKFILL AND COMPACTION, HYDROSTACTIC AND BACTERIOLOGICAL TESTING, PLUS FLUSHING AND CHLORINATION OF WATER MAIN. CONTRACTOR SHALL PROVIDE ALL TEMPORARY DEVICES, I.E. RESTRAINS, BRACING, PLUGS, ETC., NECESSARY TO SUCCESSFULLY COMPLETE REQUIRED TESTING.
18. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY TESTED AND VISUALLY INSPECTED AND ACCEPTED BY THE OWNER'S ENGINEER. COPIES OF ALL BACTERIOLOGICAL TESTING, HYDROSTATIC TESTING AND AS-BUILT PLANS SHALL BE SUBMITTED TO OWNER'S ENGINEER.
19. WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL A CLEARANCE LETTER/CERTIFICATION OF COMPLETION IS RECEIVED FROM FDEP FOR THE PROJECT.

MAINTENANCE AND OPERATION INSTRUCTIONS FOR STORMWATER FACILITY:

1. AT LEAST TWICE A YEAR PERFORM THE FOLLOWING: A) INSPECT INLETS, DRAINAGE PIPES AND STORM MANHOLES FOR ACCUMULATED SILT, SAND, OR DEBRIS, AND REMOVE EXCESSIVE BUILD-UP OF DEBRIS. B) INSPECT ALL DRAINAGE STRUCTURES FOR DAMAGE, AND REPAIR ANY DAMAGE. C) INSPECT EXFILTRATION SYSTEM AND REMOVE ACCUMULATED DEBRIS. IT IS RECOMMENDED THAT THE OWNER KEEP A LOG OF INSPECTION AND MAINTENANCE ACTIVITES.
2. IF EXCESS STORM WATER PONDING IS OBSERVED FOR A PERIOD EXCEEDING 72-HOURS AFTER LAST RAINFALL, CHECK THE STRUCTURE OPENINGS FOR OBSTRUCTION AND PIPES FOR POSSIBLE ACCUMULATED DEBRIS. IF NO EVIDENCE OF OBSTRUCTION AND/OR ACCUMULATED DEBRIS EXIST, CONTACT THE ENGINEER OF RECORD.
3. FOR PERIODIC MAINTENANCE, THE SYSTEM SHOULD BE THOROUGHLY CLEANED WHEN INSPECTION REVEALS ACCUMULATED SEDIMENT.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36-INCHES OF COVER.
2. PVC GRAVITY SANITARY SEWER PIPE SHALL BE SDR-26, IN ACCORDANCE WITH ASTM D 3034. ELASTOMERIC GASKET JOINTS IN ACCORDANCE WITH ASTM D3212 SHALL BE UTILIZED. UNLESS OTHERWISE NOTED ON PLANS.
3. DUCTILE IRON PIPE AND FITTINGS SHALL BE CLASS 350 FOR 4" THOROUGH 12" INCH PIPE DIAMETERS, DI PIPE SHALL BE ANSI A2 1.51 (AWWA C 151). FITTINGS SHALL BE DUCTILE IRON OR CAST IRON ANSI/AWWA C110. LINING SHALL BE CERAMIC EPOXY SUCH AS "SP2000" OR "PROTECTO 401". EXTERIOR COATING SHALL BE BITUMINOUS.
4. POINTS OF CONNECTION FOR THE SANITARY SEWER LINES ARE TO BE COORDINATED WITH THE BUILDING PLUMBING PLANS. SANITARY SERVICE CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE.
5. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING LINE AT THE POINT OF CONNECTION AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS.
6. PROVIDE ADDITIONAL SHOP DRAWINGS OF SANITARY SEWER COMPONENTS TO THE MUNICIPALITY FOR WASTEWATER DIVISION REVIEW FOR THOSE COMPONENTS TO BE DEDICATED TO THE MUNICIPALITY.
7. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO PLACEMENT OF BASE AND PAVING AND AGAIN PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY. CONTRACTOR SHALL NOTIFY THE ENGINEER 48-HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.
8. EXISTING SERVICES MUST NOT BE INTERRUPTED. WHEN APPLICABLE, THE CONTRACTOR SHALL DEVELOP A PLAN TO MAINTAIN SERVICES AND SEEK ENGINEER'S AND MUNICIPALITY'S APPROVAL OF THE PLAN PRIOR TO COMMENCING SEWER REPLACEMENT WORK.
9. CCTV TESTING: CLOSED CIRCUIT TV INSPECTION OF THE SANITARY SEWER MAINS IS REQUIRED.
10. LEAKAGE TEST: PERFORM LOW-PRESSURE AIR LEAKAGE TESTING PER ASTM F1417 REGARDLESS OF PIPE MATERIAL, WHICH SPECIFIES A 3.5 PSI AIR PRESSURE BE HELD FOR A SPECIFIED LENGTH OF TIME BASED ON THE PIPE DIAMETER WITH A MAXIMUM 0.5 PSI PRESSURE DROP. SEE ASTM F1417 TABLE 2.1.
11. MANDREL TESTING FOR PIPE DEFLECTION TESTING MAY BE REQUIRED AT THE REQUEST OF THE ENGINEER OR MUNICIPAL REPRESENTATIVE, PENDING REVIEW OF CCTV TEST RESULTS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. CONTRACTOR IS RESPONSIBLE FOR COST OF MANDREL TESTING AND SUBSEQUENT REQUIRED REPAIRS.
12. AS-BUILT DRAWINGS CERTIFIED BY A FL REGISTERED SURVEYOR AND IN CONFORMANCE WITH THE MUNICIPALITY'S REQUIREMENTS SHALL BE PROVIDED TO THE MUNICIPALITY FOR REVIEW BY THE WASTEWATER DIVISION PRIOR TO ACCEPTANCE.
13. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF SANITARY SEWER TO THE ENGINEER UPON COMPLETION OF THE SANITARY SEWER LINES. SANITARY SEWER LINES SHALL NOT BE PLACED IN SERVICE UNTIL A CLEARANCE LETTER/CERTIFICATION OF COMPLETION IS SECURED FROM FDEP FOR THE PROJECT.

STRIPING AND SIGNAGE NOTES

1. SIGNING AND PAVEMENT MARKINGS TO BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
2. COORDINATE AND PROVIDE FOR THE DISPOSITION AND PER PLAN REMOVAL OF EXISTING SIGNS WITH THE MUNICIPAL AUTHORITY.
3. EXISTING SIGNS THAT ARE TO REMAIN SHALL BE PROTECTED AND VISIBLE DURING THE COURSE OF CONSTRUCTION. EXISTING SIGNS WHICH ARE TO BE RELOCATED AND ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER/MUNICIPALITY.
4. CAUTION SHALL BE EXERCISED IN THE INSTALLATION OF POST MOUNTED ROAD SIDE SIGNS IN ORDER TO PREVENT DAMAGE TO BURIED UTILITIES. LOCATIONS SHALL CONFORM TO FDOT INDEX 700-010.
5. ENGINEER TO BE NOTIFIED WHEN SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS ARE IN CONFLICT WITH SIGNALS, LIGHTING, UTILITIES, ETC. LOCATION MAY BE SLIGHTLY ADJUSTED AS DIRECTED BY THE ENGINEER.
6. SIGNS SHALL BE CONSTRUCTED WITH TYPE III B HIGH PERFORMANCE PRISMATIC REFLECTIVE SHEETING, EXCEPT FOR "STOP", "WRONG-WAY", AND "DO-NOT-ENTER" WHICH SHALL BE TYPE VII SHEETING.
7. SIGN POST FOR ANY SINGLE COLUMN SIGNS SHALL BE A MINIMUM OF 3" DIA. CONFORMING TO FDOT INDEX 700-010 AND LISTED IN THE FDOT'S QUALIFIED PRODUCTS LIST (QPL). THE CONTRACTOR SHALL FIELD VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS PRIOR TO FABRICATION.
8. ALL SURFACES SHALL BE CLEANED PRIOR TO THE START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
9. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WATER BLASTING, OR OTHER APPROVED METHOD THAT WILL NOT MATERIALLY DAMAGE THE SURFACE TEXTURE OF THE PAVEMENT, AND WILL FULLY ELIMINATE ANY TRACE OF THE PREVIOUS MARKINGS. METHOD USED MUST RECEIVE PRE-APPROVAL OF THE MUNICIPAL AUTHORITY.
10. PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED ON THE FINAL ASPHALT SURFACE DURING THE INITIAL 30-DAY CURE PERIOD, AND FINAL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED AFTER THE 30-DAY CURING PERIOD. PAINTED PAVEMENT MARKINGS SHALL CONFORM TO FDOT SPEC. SECTION 710, AND THERMOPLASTIC TO SECTION 711.
11. PLACEMENT OF TURN ARROWS SHALL CONFORM TO FDOT INDEX 711-001.
12. CROSSWALKS SHALL BE 10-LF WIDE UNLESS OTHERWISE SHOWN ON THE PLANS, AND SHALL CONFORM TO FDOT INDEX 711-001.
13. ALL PERMANENT STRIPING SHALL BE INSTALLED PRIOR TO RETRO-REFLECTIVE PAVEMENT MARKERS (RPMS) INSTALLATION. PLACEMENT OF RPMS SHALL CONFORM TO FDOT STANDARD 17352.
14. CONTRACTOR SHALL COORDINATE WITH THE LOCAL PUBLIC TRANSIT AGENCY FOR BUS STOP OR RESPECTIVE SIGNS TO BE REMOVED OR RELOCATED.

ABBREVIATIONS:

A.D.A. – AMERICAN DISABILITY ACT

FDEP – FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FDOT – FLORIDA DEPARTMENT OF TRANSPORTATION

MUNICIPALITY – CITY OF MOUNT DORA

FOR STANDARD ABBREVIATIONS REFER TO THE FDOT STANDARD INDEX 001, UNLESS OTHERWISE NOTED ON PLANS.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

C-002

A GAI CONSULTANTS, INC SERVICE GROUP

Z:\INFRA\2017\A171115.07 - CAULEY & LILLIE MP\CAD\PRODUCTION DRAWINGS\A171115.07 - C-001 GENERAL NOTES.DWG
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CONSTRUCTION ACTIVITIES AND CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ABIDE BY ALL PERMIT CONDITIONS, INSPECTIONS, SCHEDULES, AND OTHER RELEVANT REGULATORY AGENCY RULES AND REGULATIONS.
2. BMPs: SYNTHETIC BALES OR SEDIMENT FILTER LOGS.
3. INLET PROTECTION: PERFORATED PIPE WRAPPED IN FILTER FABRIC (FILTER LOGS).
4. TEMPORARY SLOPE STABILIZATION: CONTRACTOR SHALL PROVIDE FOR THE SAFETY OF TEMPORARY SOIL EMBANKMENT AND SHORING REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
5. POTENTIAL POLLUTANTS DURING CONSTRUCTION: DELETERIOUS, TOXIC, OR CONTAMINATED MATERIAL, IF ENCOUNTERED, IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER AND DISPOSED OF IN APPROVED LANDFILL. CONTACT LOCAL EMERGENCY OFFICIALS REPRESENTATIVES IN CASE OF ANY SPILLS OR CONTAMINATION OF A CHEMICAL NATURE (CALL FDEP 407-894-7555) PRIOR TO ANY OTHER ACTION.
6. INSPECTIONS: CONTRACTOR TO INSPECT CONSTRUCTION SITE FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR TO PROVIDE AND MONITOR A RAIN GAUGE ON SITE AND RECORD DAILY RAINFALL AMOUNTS.
7. PERMANENT STORMWATER MANAGEMENT CONTROLS: RETENTION AND DETENTION/EXFILTRATION SYSTEMS, STORMWATER SEWER SYSTEM, PLUS STORMWATER CONTROL STRUCTURE IS TO PREVENT TRASH FROM GOING TO MUNICIPALITY'S DRAINAGE SYSTEM.
8. DEWATERING: IN GENERAL, WATER FROM CONTAMINATED AREAS ARE TO BE DISCHARGED TO SANITARY SEWER SYSTEM AND WATER FROM NON-CONTAMINATED AREAS ARE TO BE DISCHARGED INTO STORM SEWER SYSTEM. THE DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF F.D.E.P., THE NPDES PERMIT, AND THE GEOTECHNICAL REPORT.
9. DEWATERING: DEWATERING ACTIVITIES SHALL NOT RESULT IN THE DISCHARGE OF ANY WATER WITH TURBIDITY GREATER THAN 29 NTUS FROM THE SITE PER SECTION 6.14.01 (H) OF THE ESM.
10. CONTRACTOR SHALL MAKE AN EFFORT TO MINIMIZE THE AREA OF DISTURBANCE AND WILL BE RESPONSIBLE FOR ALL DAMAGES. ALL EXISTING SODDED AREAS DISTURBED DURING THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF SOD IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS WITHIN 7 DAYS OF FINAL GRADING.
11. SURFACE DRAINAGE SHALL BE DIVERTED FROM EXCAVATIONS AND STOCKPILE AREAS SUCH THAT PROPER SITE CONDITIONS ARE MAINTAINED AND EROSION DUE TO RAIN RUN-OFF OR SEEPAGE IS PREVENTED OR MINIMIZED.
12. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.
13. NO FERTILIZERS, HERBICIDES, OR PESTICIDES ARE TO BE USED ON-SITE WITHOUT PRIOR APPROVAL OF CITY STAFF.
14. AFTER ALL CONSTRUCTION IS COMPLETE, ALL STRUCTURES AND STORM SEWER PIPES IN THE SYSTEM SHALL BE CLEANED AND TEMPORARY PLUGS IN STRUCTURES SHALL BE REMOVED.
15. ADDITIONAL NOTES: IF NECESSARY, CONTRACTOR SHALL INSTALL TURBIDITY BARRIER, AND USE STREET SWEEPER TO CLEAN ANY OFF-SITE TRACKING OF SOIL. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL IF IT BECOMES NECESSARY TO MEET STATE AND LOCAL STANDARDS AND TO COMPLY WITH THIS PLAN.
16. WASTE DISPOSAL: ALL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTE SHALL BE PROPERLY CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THERE SHOULD BE NO DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO SURFACE WATERS OF THE STATE OR AN MS4.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS, AND ALL GENERAL CONSTRUCTION NOTES CONTAINED WITHIN THIS PLAN SET.
2. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO CONSTRUCTION AND MAINTAIN COPIES AT THE JOBSITE. HE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL THE REQUIRED CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS IS APPROXIMATE AND HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER/ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES, FIELD DETERMINE THE EXACT LOCATION OF UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY IF CONFLICTS EXIST. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITY AND ALL EXISTING UTILITIES SHALL BE PROTECTED.
4. THE CONTRACTOR SHALL COORDINATE ALL TREE REMOVALS REQUIRED BY CONSTRUCTION WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL STRIVE TO PROTECT AS MANY TREES AS POSSIBLE DURING CONSTRUCTION OPERATIONS. COORDINATE EFFORTS WITH AREA DEVELOPMENT PLANS.
5. THE CONTRACTOR IS ADVISED TO BRING ANY LAYOUT DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. COORDINATE WITH LOCAL EMERGENCY SERVICES AND PROVIDE EMERGENCY ACCESS CORRIDOR THROUGHOUT CONSTRUCTION.
7. CONTACT LOCAL ENVIRONMENTAL COMPLIANCE OFFICIAL FOR APPROVAL OF EROSION CONTROL MEASURES 24 HOURS PRIOR TO BEGINNING GRADE WORK.
8. MATERIALS INTERFERING WITH CONSTRUCTION SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.
9. ALL EXCESS DIRT, CLEARING DEBRIS, UNSUITABLE MATERIALS AND EXISTING ROADWAY MATERIAL RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE HAULED OFF IN A LEGAL MANNER.
10. THE CONTRACTOR SHALL PROVIDE A LEVEL GROUND SURFACE AREA ACCESSIBLE TO THE HAUL ROADS AND CONSTRUCTION ENTRANCE FOR MATERIAL LAY-DOWN AND CONSTRUCTION STAGING. THE AREA SHALL BE DELINEATED WITH SAFETY FENCING AND SILT FENCE SHALL BE INSTALLED ALONG THE DOWNHILL BOUNDARY.
11. CONTRACTOR SHALL CONFINE HIS OFF-SITE ACTIVITIES TO LIMITS OF CONSTRUCTION AS DEPICTED ON THE SITE PLAN (PROPOSED BY GAI CONSULTANTS.).
12. ANY PUBLIC LAND CORNER, WITHIN THE LIMITS OF CONSTRUCTION, IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE WITHOUT DELAY.
13. ALL REFERENCES TO PROPOSED CONSTRUCTION INDICATES CONSTRUCTION INCLUDED IN THIS CONTRACT.

TEMPORARY PROTECTION NOTES:

1. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
2. TEMPORARY SEEDING – AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY-DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE A MINIMUM OF 30 POUNDS PER ACRE.
3. TEMPORARY SEEDING AND MULCHING – SLOPES STEEPER THAN 6:1 THAT REQUIRE TEMPORARY SEEDING SHALL ADDITIONAL RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED ARE TO A DEPTH OF 4 INCHES.
4. TEMPORARY GRASSING – THE SEEDED OR THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITION FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
5. TEMPORARY REGRASSING – IF AFTER 14 DAYS THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR MUST IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF THE WATER QUALITY CRITERIA AND STANDARDS IN CHAPTERS 62-4, 62-302, F.A.C. ALL EROSION/SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988), AS WELL AS THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK, UNLESS A PROJECT-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED BY THE WATER MANAGEMENT DISTRICT IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, THE CONTRACTOR MUST IMPLEMENT THE NECESSARY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.
2. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14-DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
3. THE LOCATION AND TYPE OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE PROVIDED FOR GENERAL GUIDANCE TO THE CONTRACTOR. THE METHODS AND SEQUENCING OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR MAY REQUIRE MORE OR LESS EROSION CONTROL MEASURES THAN THAT DEPICTED TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE CONSTRUCTION ACTIVITIES.
4. EROSION/TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SEDIMENT OR SUSPENDED SOLIDS TO ADJACENT PROPERTIES, JURISDICTIONAL WETLANDS AND/OR RECEIVING WATER BODIES EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS. THE CONTRACTOR SHALL MAINTAIN THE EROSION/TURBIDITY CONTROL BARRIERS DAILY. THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR PROVIDING THE NECESSARY EROSION/TURBIDITY CONTROL FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PENALTIES IMPOSED BY THE PERMITTING AGENCIES FOR ANY EROSION, SHOALING, OR WATER QUALITY PROBLEMS RESULTANT TO CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SEDIMENTATION, SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL, A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND/OR ACCORDING TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR EROSION CONTROL APPLICATIONS AND ACCORDING TO THE APPLICABLE COUNTY WATER QUALITY CODE AND THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.
6. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEIVING WATER.
7. PRIOR TO BEGINNING THE CLEARING AND GRUBBING OF THE SITE, SYNTHETIC BALES SHALL BE STAKED TO THE GROUND ALONG THE PROPERTY LINE AT LOW AREAS IN ADDITION TO THE PERIMETER SILT FENCE TO PREVENT STORMWATER FROM WASHING ERODED SOIL FROM THE SITE.
8. THE SITE SHALL BE GRADED SUCH THAT ALL STORMWATER WILL BE DIRECTED INTO THE ON-SITE STORMWATER SYSTEM. SYNTHETIC BALES SHALL BE STAKED IN LOCATIONS WHERE WATER ENTERS THE SYSTEM TO FILTER OUT THE ERODED SOILS AND CONSTRUCTION FINES. CONTRACTOR SHALL MAKE PROVISIONS TO AVOID TRACKING DIRT AND CONSTRUCTION DEBRIS TO THE ROADWAY VIA TRUCK AND EQUIPMENT TIRES.
9. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MUNICIPALITY, AND FDOT STANDARDS AND SPECIFICATIONS, AND THE CONTRACT DRAWINGS.
10. CONTRACTOR SHALL REPLACE CLOGGED SECTIONS OF SILT FENCES AND PERFORATED PIPE WITH FABRIC SOCK AS NECESSARY TO MAINTAIN WATER PASSAGE.
11. CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL DURING INSTALLATION OF NEW CURBING AND DRIVEWAYS AS APPROVED BY THE ENGINEER.
12. CONTRACTOR SHALL TAKE CARE TO KEEP EXPOSED AREAS TO A MINIMUM POSSIBLE TIME DURING CONSTRUCTION.
13. ON-SITE CONTROL MEASURES SHALL BE APPLIED TO REDUCE EROSION AS SHOWN ON THE PLANS, DETAIL SHEETS AND IN ACCORDANCE WITH FDOT, FDEP AND THE MUNICIPALITY'S REGULATIONS FOR EROSION CONTROL MEASURES. STOCKPILING AND STORAGE OF MATERIALS SHOULD NOT BE LOCATED IN A MANNER TO IMPEDE FLOW OR CAUSE MATERIALS TO BE ERODED BY STORMWATER RUNOFF.
14. ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES AND MEASURES TO BE USED DURING CONSTRUCTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED IN AN EFFECTIVE CONDITION UNTIL SUCH TIME AS THE COMPLETION OF THE PERMANENT SYSTEM OR OTHER EROSION CONTROL MEASURES CAN ASSURE ADEQUATE EROSION AND SEDIMENT CONTROL.
15. NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT BODY OR STORMWATER COLLECTION FACILITY.
16. ALL EXCESS FILL MATERIAL WILL BE HAULED OFFSITE.
17. CONTRACTOR TO INSPECT EROSION/SEDIMENT CONTROL DEVICES DAILY AND WITHIN 24 HOURS OF EACH 0.5 INCH OR GREATER RAINFALL EVENT FOR EFFECTIVENESS. ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY.
18. ALL DESIGNATED ENTRANCES AND EXITS FOR THE CONSTRUCTION SITE SHALL BE STABILIZED USING FILTER FABRIC AND GRAVEL OR OTHER PRE-APPROVED METHODS TO PREVENT OFFSITE TRACKING OF SEDIMENTS.
19. SEDIMENTATION CONTROLS/ BMPs SHALL PREVENT STORMWATER RUNOFF WITH TURBIDITY GREATER THAN 29 NTUs FROM LEAVING THE CONSTRUCTION SITE.
20. SITE DUST CONTROL IS MANDATORY. CONTRACTOR SHALL EMPLOY BMP(S) SUCH AS: WIND SCREEN ON PERIMETER CONSTRUCTION FENCING, WATER MISTING OF DRY SOILS, ETC.

CONTRACTOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS A PART OF THIS CERTIFICATION."

SIGNATURE _____ DATE _____

PROJECT MANAGER _____

NAME AND TITLE _____

COMPANY _____

ADDRESS (CONTRACTING FIRM) _____

ADDRESS (CONSTRUCTION SITE) _____

TELEPHONE: _____
AREA CODE NUMBER

DEVELOPER CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS A PART OF THIS CERTIFICATION."

SIGNATURE _____ DATE _____

PROJECT MANAGER _____

NAME AND TITLE _____

COMPANY _____

ADDRESS (DEVELOPING FIRM) _____

ADDRESS (DEVELOPING SITE) _____

TELEPHONE: _____
AREA CODE NUMBER

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

SWPPP NOTES

SHEET NUMBER

C-003

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This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

STORMWATER POLLUTION PREVENTION NOTES:

LOCATION: THE 3.07 +/– ACRE SITE IS LOCATED IN THE CITY OF MOUNT DORA, LAKE COUNTY, FLORIDA

LIMITS OF CONSTRUCTION: 3.07± ACRES WILL BE DISTURBED DURING CONSTRUCTION.

CONSTRUCTION ACTIVITIES: CLEARING AND GRUBBING OF EXISTING SITE; GRADING OPERATIONS; UTILITY INSTALLATION; CONSTRUCTION OF STORM SEWER; CONSTRUCTION OF A BUILDING AND AMENITIES.

SOIL TYPES: POMPANO SAND (42), ST. LUCIE SAND, 0 TO 8 PERCENT SLOPES (43) & TAVARES SAND, 0 TO 5 PERCENT SLOPES (45) ACCORDING TO THE USDA NRCS SOIL SURVEY OF LAKE COUNTY.

GENERAL CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE AROUND PERIMETER OF SITE. PROVIDE MINIMUM SITE DEMOLITION REQUIRED TO INSTALL SILT FENCE. INSTALL TEMP INLET PROTECTION.
2. GENERAL SITE CLEARING AND GRUBBING, AND DEMOLITION.
3. ROUGH GRADE SITE.
4. INSTALL UNDERGROUND UTILITIES.
5. INSTALL STORMWATER DRAINAGE.
6. CONSTRUCT BUILDING.
7. INSTALL LANDSCAPING.
8. REMOVE TEMP. PROTECTION SYSTEMS.

STORMWATER DISCHARGE:
STORMWATER WILL DISCHARGE TO THE CITY OF MOUNT DORA STORM SEWER SYSTEM AND WILL ULTIMATELY DISCHARGE TO LAKE DORA.

DEVELOPER CONTACT INFORMATION
CITY OF MOUNT DORA
1995 DONNELLY STREET
MOUNT DORA, FL 32757
PHONE: (352) 735–7161

NOTE TO CONTRACTOR

1. THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OF 1 ACRE OR MORE. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

CAULEY LOTT PARK
CITY OF MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE: _____

INSPECTOR'S QUALIFICATIONS: _____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABLIZED? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

CAULEY LOTT PARK
CITY MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE: _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4

CAULEY LOTT PARK
CITY OF MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 3 OF 4

CAULEY LOTT PARK
CITY OF MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN: _____

REASONS FOR CHANGES: _____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____

DATE: _____

PAGE 4 OF 4

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL

REGISTRATION

SHEET TITLE

SWPPP NOTES

SHEET NUMBER

C-004

A GAI CONSULTANTS, INC SERVICE GROUP

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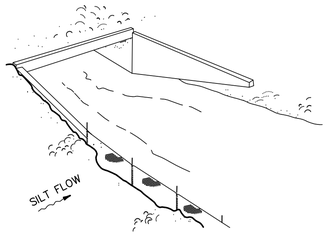
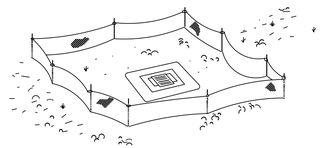


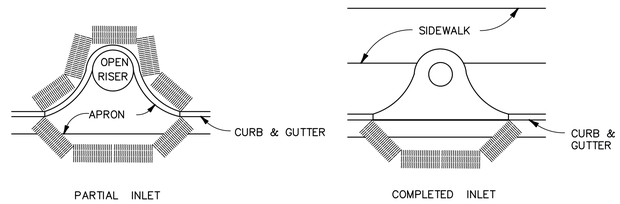
TYPE III SILT FENCE



TYPE III SILT FENCE PROTECTION ROUND DITCH BOTTOM INLETS.

NOTE:
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

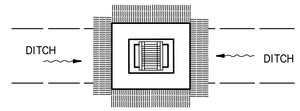
1 TYPE III SILT FENCE
N.T.S.



PARTIAL INLET

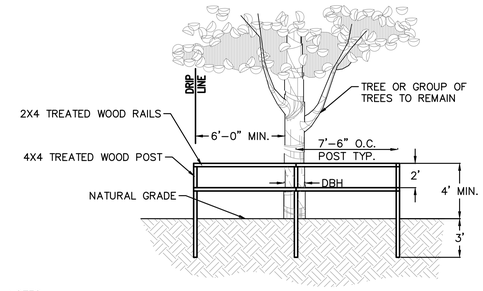
COMPLETED INLET

ANCHOR SYNTHETIC BALES OR SEDIMENT FILTER LOGS



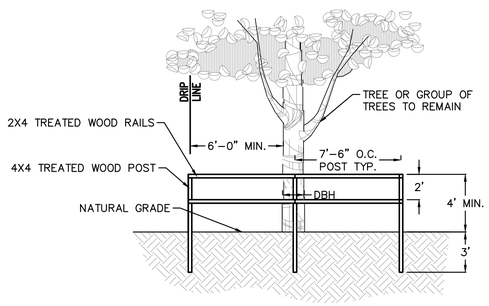
DITCH BOTTOM INLET

2 PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.



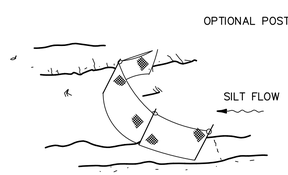
NOTES:
1. TAG TREES TO REMAIN BEFORE CLEARING. THE TREE BARRICADE SHALL BE PLACED SO AS TO PROTECT THE CRITICAL PROTECTION ZONE AREA.
2. ALL CONSTRUCTION ACTIVITY INCLUDING EQUIPMENT, STOCKPILING OF MATERIALS, DEBRIS AND PERSONNEL IS RESTRICTED FROM WITHIN BARRICADED AREA.
3. CONSTRUCT FENCE PRIOR TO CONSTRUCTION CLEARING. DO NOT REMOVE EITHER PARTIALLY OR COMPLETELY ANY PORTION OF BARRICADE UNTIL SITE IS PREPARED FOR FINE GRADING AND PLANTING.
4. TREE PROTECTION SHALL INCLUDE TREE ROOTS.
5. IF TREE ROOTS ARE ENCOUNTERED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES THEY MAY BE PRUNED. A QUALIFIED ARBORIST SHALL BE CONSULTED FOR ALL ROOT AND OVERHEAD TREE LIMB PRUNING TO ENSURE THAT NO TREES ARE DAMAGED.

6 TREE PROTECTION DETAIL
N.T.S.

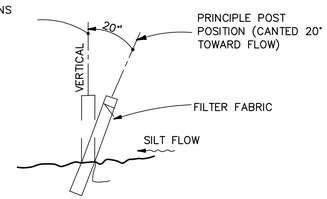


NOTES:
1. TAG TREES TO REMAIN BEFORE CLEARING. THE TREE BARRICADE SHALL BE PLACED SO AS TO PROTECT THE CRITICAL PROTECTION ZONE AREA.
2. ALL CONSTRUCTION ACTIVITY INCLUDING EQUIPMENT, STOCKPILING OF MATERIALS, DEBRIS AND PERSONNEL IS RESTRICTED FROM WITHIN BARRICADED AREA.
3. CONSTRUCT FENCE PRIOR TO CONSTRUCTION CLEARING. DO NOT REMOVE EITHER PARTIALLY OR COMPLETELY ANY PORTION OF BARRICADE UNTIL SITE IS PREPARED FOR FINE GRADING AND PLANTING.

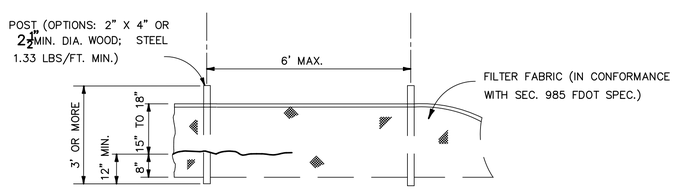
3 TREE PROTECTION DETAIL
N.T.S.



NOTE:
SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1



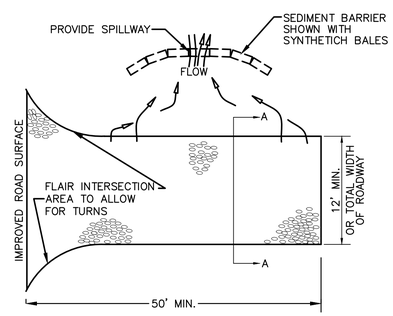
SECTION



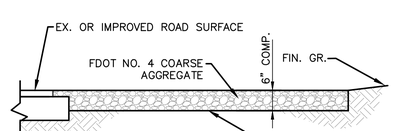
ELEVATION

NOTE:
ALL SILT FENCING SHALL COMPLY WITH THE LATEST FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL, SECTION 4.06

4 SILT FENCE APPLICATION
N.T.S.



PLAN



SECTION A–A

5 ROCK CONSTRUCTION ENTRANCE DETAIL
N.T.S.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

SWPPP DETAILS

SHEET NUMBER

C-005

A GAI CONSULTANTS, INC SERVICE GROUP

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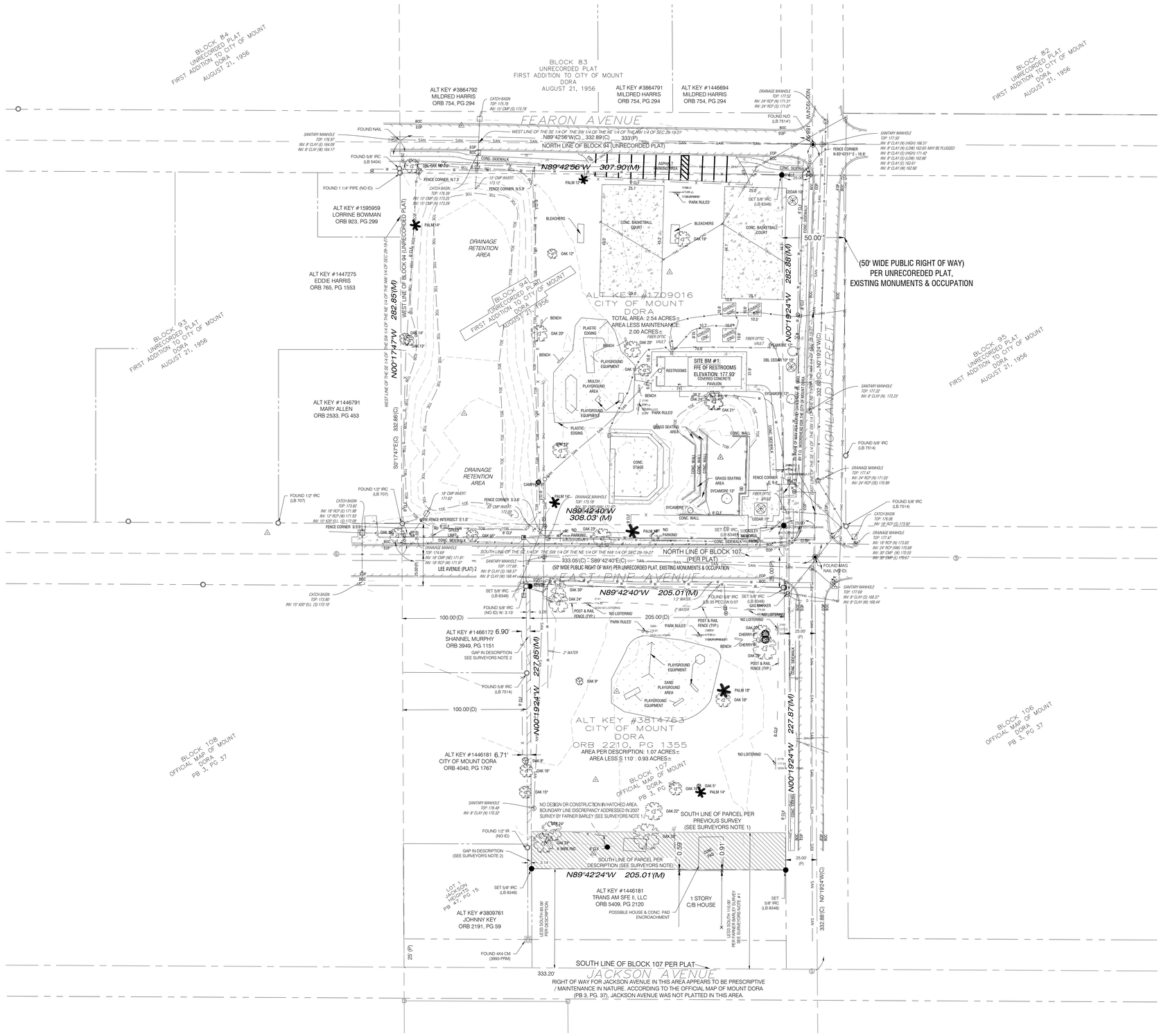

NORTH

0 40' 80'

FULL SCALE: 1"=40'
HALF SCALE: 1"=80'

GENERAL NOTES:

1. SURVEY PREPARED BY BESH HALFF. REFER TO THE OFFICIAL TOPOGRAPHIC SURVEY FOR EXISTING FEATURES LEGEND AND ABBREVIATIONS.
2. REFER TO COVER SHEET FOR SURVEYOR CONTACT INFORMATION.
3. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC SURVEY BENCHMARK "ROOF", HAVING AN ELEVATION OF 95.65', NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

SURVEYORS NOTE #1:
BY DESCRIPTION ALT KEY 3814763 LESSES THE SOUTH 80 FEET OF BLOCK 107 ACCORDING TO THE PLAT OF MOUNT DORA AS RECORDED IN PB 3, PGS 37–43. BY THIS DESCRIPTION, THERE IS A POSSIBLE ENCROACHMENT OF THE HOUSE AND CONCRETE PAD LOCATED ON ALT KEY: 1446181. IN MAY OF 2006 FARNER BARLEY AND ASSOCIATES WAS HIRED BY THE CITY OF MOUNT DORA TO PREPARE A SKETCH OF DESCRIPTION LESSING OFF THE SOUTH 110 FEET OF BLOCK 107. A MONTH LATER IN JULY OF 2006 THE CITY OF MOUNT DORA HAD FARNER BARLEY PERFORM A BOUNDARY SURVEY ON THE SAME LOT (JOB NO. 921083.0057) SHOWING THE LESS 110 FEET. HOWEVER, THE SKETCH OF DESCRIPTION WAS NEVER RECORDED. ACCORDING TO DEEDS OF RECORD ALT KEY 3814763 STILL ONLY LESSES OFF THE SOUTH 80 FEET OF BLOCK 107.

SURVEYORS NOTE #2:
ACCORDING TO DEED DESCRIPTIONS ALT KEYS: 1466172 AND 1446181 ARE DEFINED AS BEING THE WEST 100 FEET OF BLOCK 107 OF THE PLAT OF MOUNT DORA AS RECORDED IN PB 3, PGS 37–43. ALT KEY: 3814763 IS DESCRIBED AS THE EAST 205 FEET OF BLOCK 107. WHEN DRAWN AS DESCRIBED, THE RESULT IS A GAP IN DESCRIPTIONS AS SHOWN HEREON. ADDING THESE TWO DESCRIPTIVE DISTANCES PLUS 25 FEET FOR RIGHT OF WAY OF NORTH HIGHLAND STREET EQUALS THE STATUTE DISTANCE OF 330 FEET.

NOTE: ACCORDING TO THE OFFICIAL MAP OF MOUNT DORA, P.B. 3, PG 43, BLOCKS IN THIS AREA ARE NOT DIMENSIONED. HOWEVER, THROUGH FIELD SURVEY, EXISTING MONUMENTS, PREVIOUS SURVEYS BY OTHERS AND DEED RESEARCH THE INTENT IN THIS AREA IS FOR THE BLOCKS TO BE SURVEYED BY FRACTIONAL DIVISION OF THE NW 1/4 OF SEC. 29–19–27

COMMUNITY SOLUTIONS GROUP

gai consultants

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SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET, MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

EXISTING CONDITIONS

SHEET NUMBER

C-101

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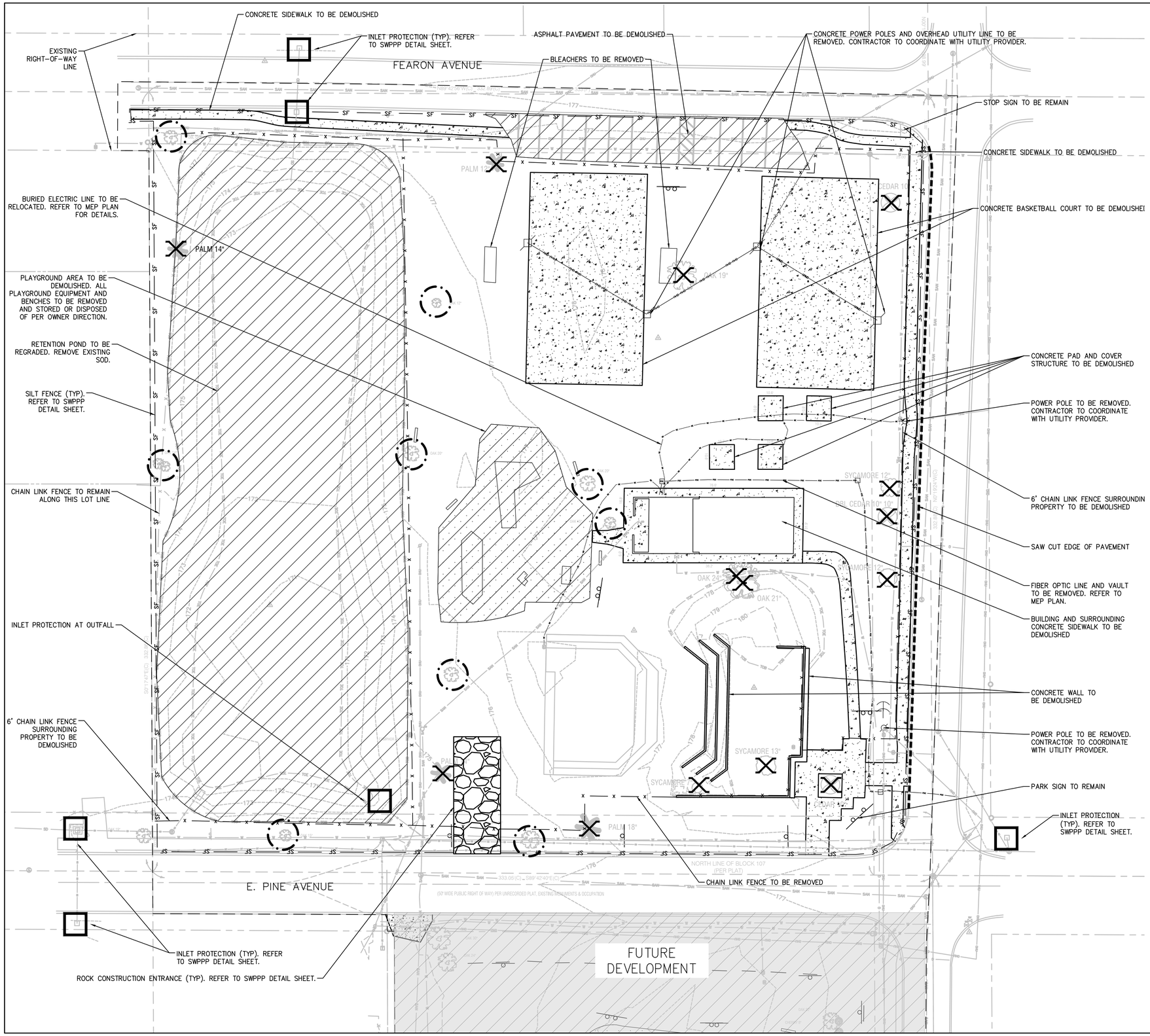

GENERAL NOTES:

1. SEE TOPOGRAPHIC SURVEY FOR EXISTING FEATURES LEGEND AND ABBREVIATIONS.
2. ALL PRIVATE AND PUBLIC PROPERTY DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN EXISTING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. THE DAMAGE TO THE EXISTING FACILITIES INCLUDES, BUT IS NOT LIMITED TO, UTILITIES, SPRINKLER SYSTEMS, WALKS, DRIVEWAYS, SIDEWALKS, LANDSCAPING, TREES, GRASS, ETC.
3. ALL PUBLIC/PRIVATE UTILITIES MUST NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR SHALL HAVE AND EXECUTE A "UTILITY MAINTENANCE PLAN" THAT HAS BEEN APPROVED BY THE RESPECTIVE UTILITY COMPANY WHEN CONDITIONS APPLY.
4. ANY DEVIATION FROM THE CITY OF MOUNT DORA ENGINEERING STANDARDS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION.
5. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC SURVEY BENCHMARK "ROOF", HAVING AN ELEVATION OF 95.65', NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
6. CONTRACTOR SHALL ESTABLISH A NEW BENCHMARK PRIOR TO DEMOLISHING BUILDING.

EROSION CONTROL NOTES:

1. NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
2. ALL EXCESS FILL MATERIAL WILL BE HAULED OFFSITE.
3. ALL DESIGNATED ENTRANCES AND EXITS FOR THE CONSTRUCTION SITE SHALL BE STABILIZED USING FILTER FABRIC AND GRAVEL OR OTHER PRE-APPROVED METHODS TO PREVENT OFF-SITE TRACKING OF SEDIMENTS.
4. SITE DUST CONTROL IS MANDATORY. CONTRACTOR SHALL EMPLOY BMP(S) SUCH AS: WIND SCREEN ON PERIMETER CONSTRUCTION FENCING, WATER MISTING OF DRY SOILS, ETC.

LEGEND

- LIMITS OF WORK
- SF — SILT FENCE
- TREE PROTECTION
- INLET PROTECTION
- CONSTRUCTION ENTRANCE
- CONCRETE TO BE DEMOLISHED
- DEMOLITION AREA
- FENCE TO BE DEMOLISHED
- SIGN TO REMAIN
- SIGN TO BE REMOVED
- TREE AND ROOTS TO BE REMOVED
- SAW CUT EDGE OF PAVEMENT
- UTILITY POLE TO REMAIN
- UTILITY POLE TO BE REMOVED

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET, MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

DEMOLITION & EROSION CONTROL PLAN

SHEET NUMBER

C-102

A GAI CONSULTANTS, INC SERVICE GROUP

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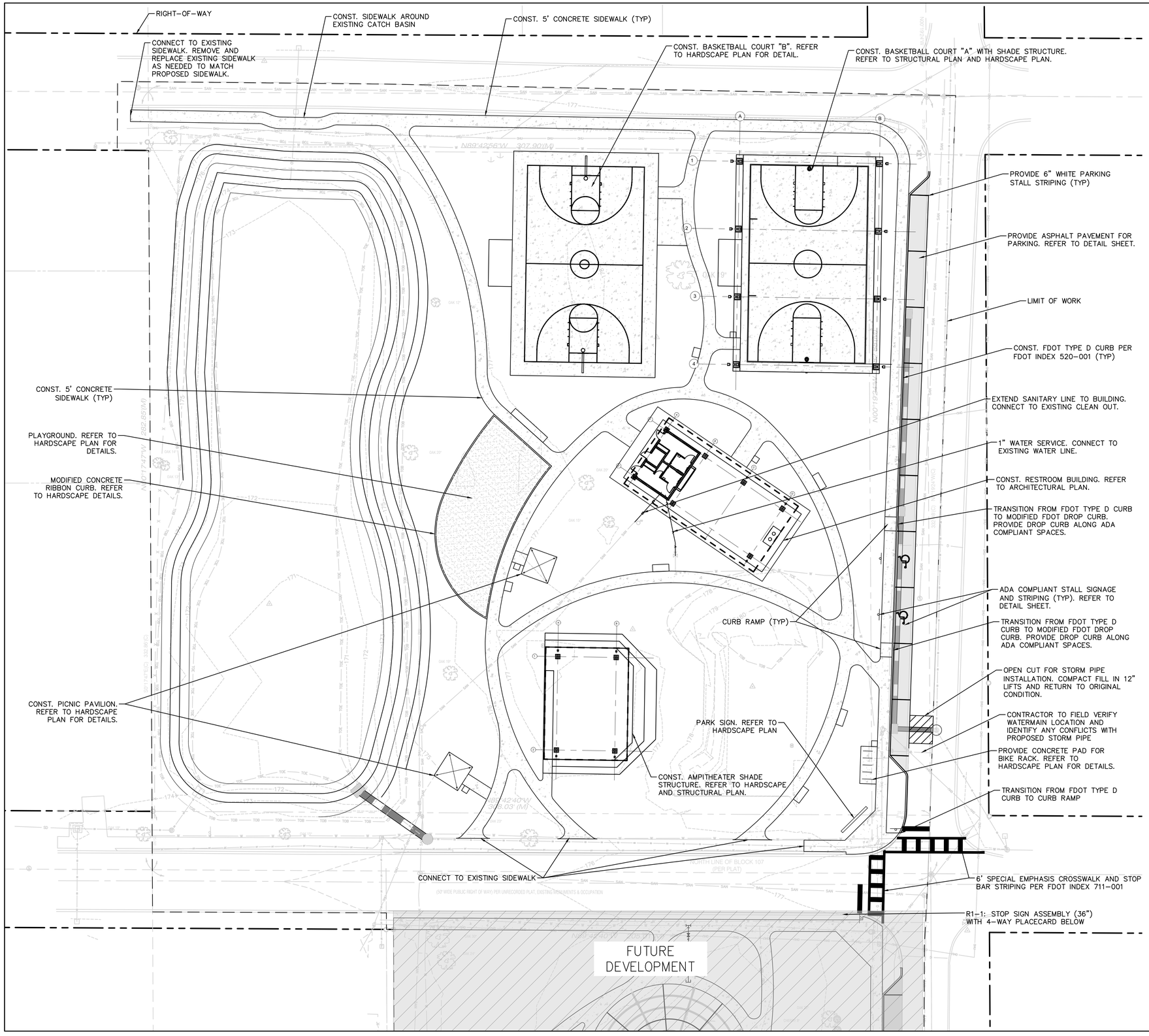

NORTH

0 20' 40'

FULL SCALE: 1"=20'
HALF SCALE: 1"=40'

SITE DATA	
PARCEL ID	29-19-27-0002-000-06600 29-19-27-0050-107-00004
PARCEL ACREAGE	3.51 AC
PROPOSED IMPERVIOUS AREA	0.85 AC
PROPOSED % IMPERVIOUS	25 %
PHASED PROJECT	TWO PHASES
FUTURE LAND USE DESIGNATION	RECREATION (RC) MEDIUM DENSITY RESIDENTIAL (MD)
PARKING SPACES PROVIDED	STANDARD SPACES= 13 ADA SPACES= 3 TOTAL SPACES= 16
BIKE SPACES PROVIDED	STANDARD SPACES= 10

GENERAL NOTES:

1. ALL MEASUREMENTS ARE TO THE FACE OF THE CURB.
2. ALL SIDEWALK AND CURB RADIUSES ARE 3' UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL IMPROVEMENTS TO BE DEDICATED AND/OR MAINTAINED BY THE CITY OF MOUNT DORA SHALL BE IN CONFORMANCE WITH THE CURRENT CITY ENGINEERING STANDARDS MANUAL, MATERIALS LIST, AND DETAILS. FINAL APPROVAL DOES NOT PROVIDE EXEMPTION FROM THESE REQUIREMENTS. ANY DEVIATION FROM THE CITY STANDARDS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION.
4. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC SURVEY BENCHMARK "ROOF", HAVING AN ELEVATION OF 95.65', NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5. CONTRACTOR SHALL ESTABLISH A NEW BENCHMARK PRIOR TO DEMOLISHING BUILDING.

LEGEND

- RIGHT-OF-WAY
- LIMITS OF WORK
- EXISTING FEATURE
- PROPOSED IMPROVEMENT
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET, MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

SITE PLAN

SHEET NUMBER

C-201

A GAI CONSULTANTS, INC SERVICE GROUP

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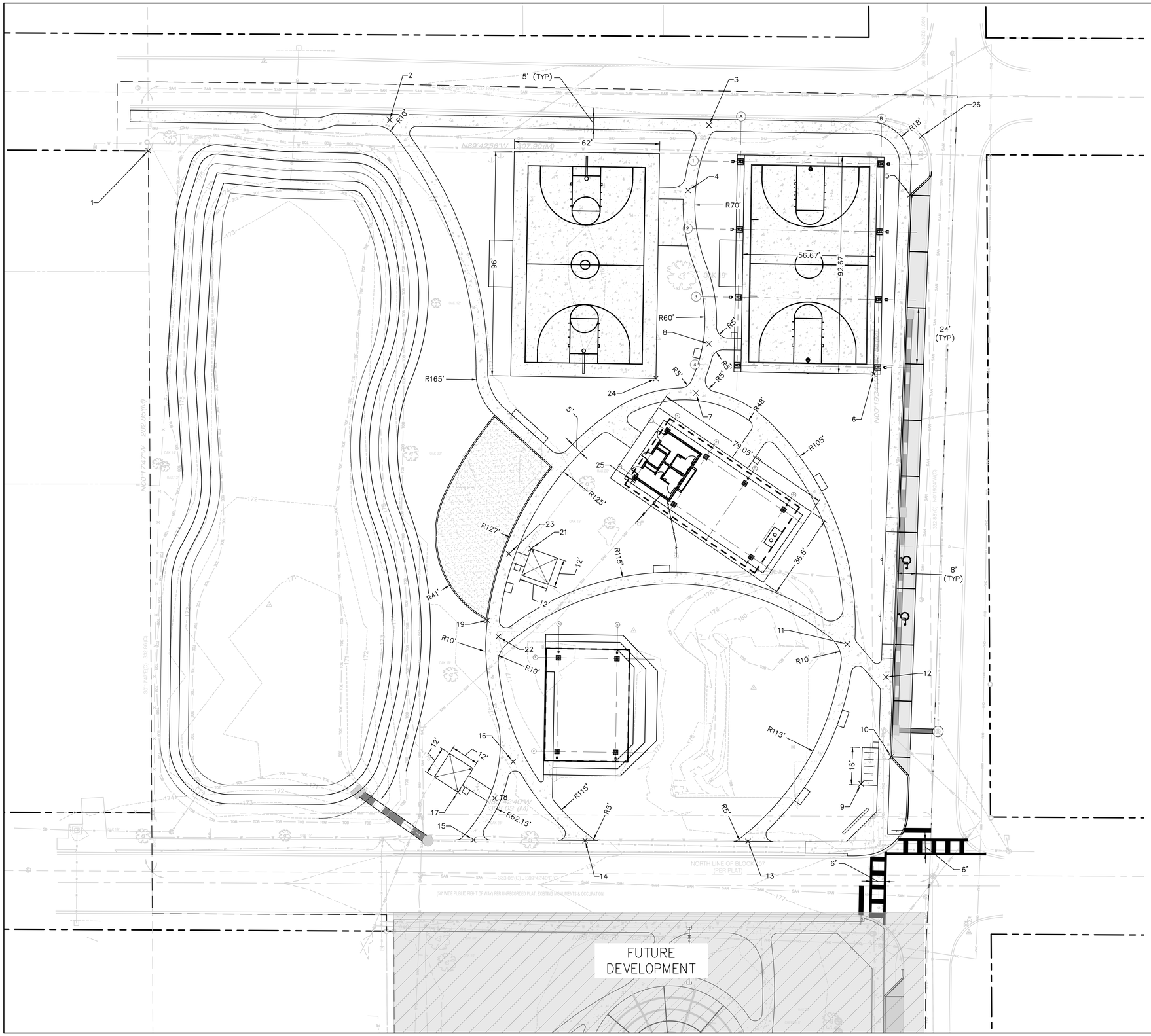

GENERAL NOTES:

1. ALL MEASUREMENTS ARE TO THE FACE OF THE CURB.
2. ALL SIDEWALK AND CURB RADIUSES ARE 3' UNLESS OTHERWISE NOTED ON THE PLANS.
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5. CONTRACTOR SHALL ESTABLISH A NEW BENCHMARK PRIOR TO DEMOLISHING BUILDING.

Point Table

Point #	Northing	Easting
1	1628610.7997	451994.7186
2	1628623.9002	452097.7638
3	1628621.7094	452234.0856
4	1628593.8141	452225.1275
5	1628592.0212	452319.9099
6	1628515.3999	452304.3565
7	1628507.2828	452228.4985
8	1628528.3174	452234.0141
9	1628340.3665	452298.9846
10	1628351.9490	452311.8717
11	1628400.0371	452293.1077
12	1628385.9483	452309.6114
13	1628315.7828	452250.7078
14	1628316.1836	452181.1561
15	1628316.4104	452133.5301
16	1628349.7876	452150.4425
17	1628336.7994	452126.9135
18	1628334.2329	452142.5137
19	1628410.1945	452139.4950
21	1628440.8248	452158.1591
22	1628403.2336	452144.1400
23	1628438.6049	452148.6317
24	1628513.5597	452211.4193
25	1628469.9416	452201.4063
26	1628617.1434	452324.9967

LEGEND

- RIGHT-OF-WAY
- LIMITS OF WORK
- EXISTING FEATURE
- PROPOSED IMPROVEMENT
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

GEOMETRY PLAN

SHEET NUMBER

C-202

A GAI CONSULTANTS, INC SERVICE GROUP

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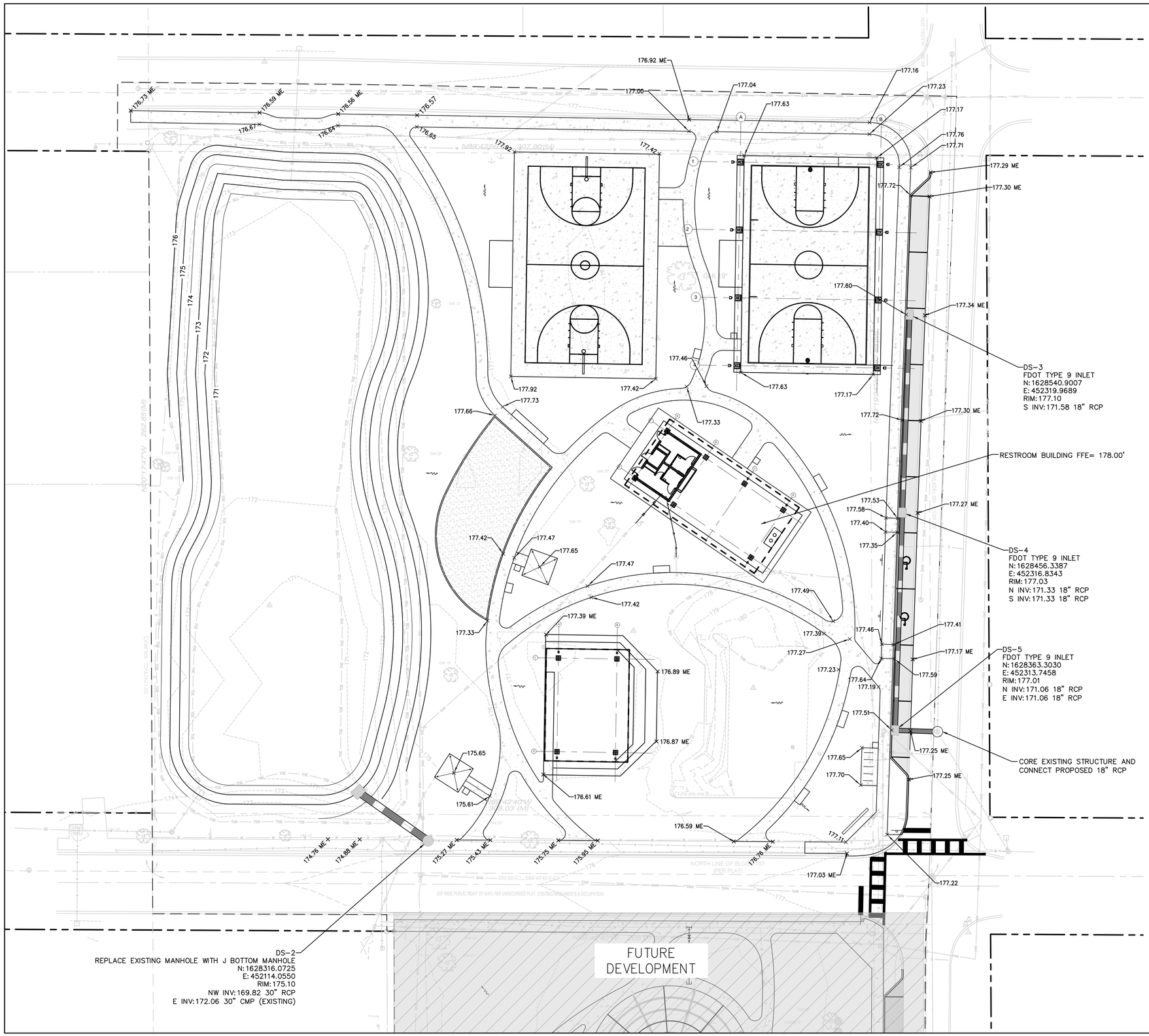

NORTH

0 20' 40'

FULL SCALE: 1"=20'
HALF SCALE: 1"=40'

GENERAL NOTES:

1. ALL ELEVATIONS ALONG PROPOSED CURBS ARE AT THE TOP OF THE CURB.
2. ALL IMPROVEMENTS TO BE DEDICATED AND/OR MAINTAINED BY THE CITY OF MOUNT DORA SHALL BE IN CONFORMANCE WITH THE CURRENT CITY ENGINEERING STANDARDS MANUAL, MATERIALS LIST, AND DETAILS. FINAL APPROVAL DOES NOT PROVIDE EXEMPTION FROM THESE REQUIREMENTS. ANY DEVIATION FROM THE CITY STANDARDS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION.
3. PROPOSED PIPES ARE MEASURED FROM CENTER OF STRUCTURE.
4. IN AREAS WHERE PROPOSED SIDEWALK CONNECTS TO EXISTING SIDEWALK, SAW CUT EXISTING SIDEWALK AND MATCH NEW SIDEWALK ELEVATION TO EXISTING ELEVATION.

LEGEND

	RIGHT-OF-WAY
	LIMITS OF WORK
	PROPOSED IMPROVEMENT
	EXISTING FEATURE
92	EXISTING CONTOUR
× 92.00 ME	EXISTING ELEVATION AS INTERPOLATED FROM SURVEY. SHALL MATCH EXISTING.
× 92.00	PROPOSED SPOT ELEVATION
	PHASE 1 CONCRETE PAVEMENT
	FUTURE CONCRETE PAVEMENT
	PROPOSED STORM PIPE
D	PROPOSED STORM STRUCTURES
	SURFACE FLOW DIRECTION

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
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PROJECT

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CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NUMBER

C-300

A GAI CONSULTANTS, INC SERVICE GROUP

Z:\INFRA\2017\A171115.07 - CAULEY & LILLIE MP\CAD\PRODUCTION DRAWINGS\A171115.07 - C-300 GRADING & DRAINAGE PLAN.DWG
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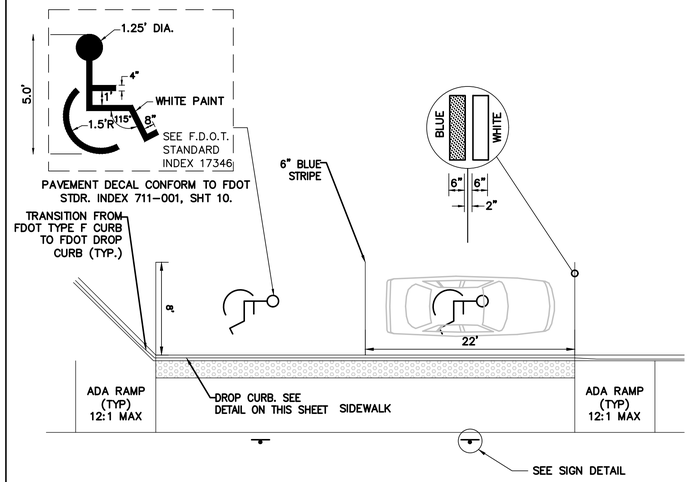
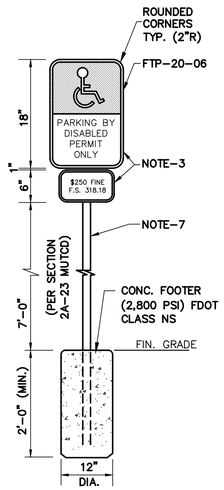


ADA SIGNAGE NOTES:

1. ONE (1) SIGN ASSEMBLY IS REQUIRED FOR EACH PARKING SPACE. PLACED CENTERED W/ PARKING SPACE AND 2'-0" CLEAR FROM BACK-OF-CURB WHEN APPLICABLE.
2. SIGN SHALL HAVE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND. USE FDOT FTP-20-06, OR FTP-21-06, OR APPROVED EQUAL.
3. SIGNS SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) CONFORMING TO FDOT SPEC. SECTION 700. PANELS PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STDR. INDEX NO. 700-102. USE FDOT FTP-20-06 PLUS 6"X12" PLACARD BELOW.
4. SIGNS SHALL BE SHEET ALUMINUM BACKING (.080) THICKNESS.
5. HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 2A-23 OF THE MUTCD.
6. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. AND THE MUTCD.
7. POLES SHALL BE 3"ø ALUM. UNLESS OTHERWISE INDICATED IN THE LANDSCAPE ARCHITECH'S PLANS AND SPECS. PROVIDE RUSTPROOF HARDWARE. ALL SIGNS SHALL CONFORM TO FDOT INDEX 11864.

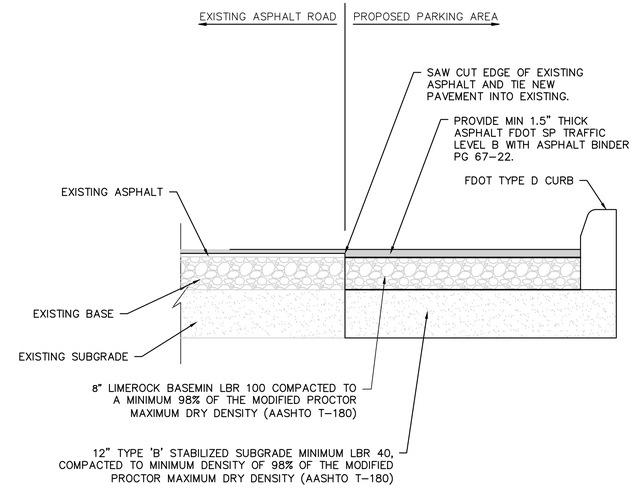
1 ADA PARALLEL PARKING DETAIL

N.T.S.



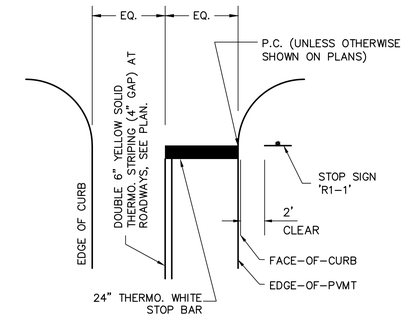
3 ADA SIGN DETAIL

N.T.S.

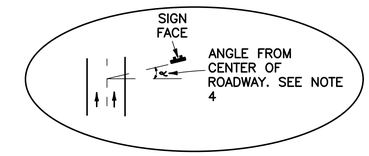


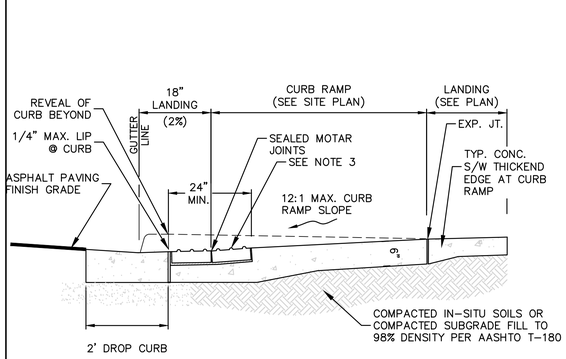
5 ASPHALT PAVEMENT SECTION

N.T.S.



INTERSECTION WITH STOP SIGN



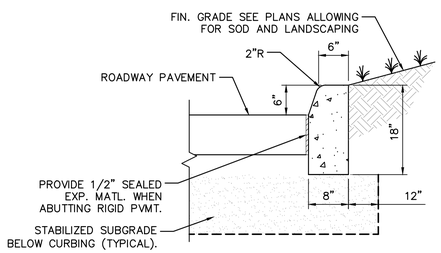


CURB RAMP NOTES:

1. ALL CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND 24" FROM THE BACK OF CURB IN THE DIRECTION OF TRAVEL. AS SHOWN ON DETAIL.
2. DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME PATTERN IN CONFORMANCE WITH U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS.
3. TRUNCATED DOME PAVERS SHALL BE PER HARDSCAPE PLANS. SUBMIT SELECTION TO OWNER FOR APPROVAL.
4. THE COLOR REQUIREMENT FOR DETECTABLE WARNINGS IS TO PROVIDE A DARK-ON-LIGHT VISUAL CONTRAST BETWEEN THE DETECTABLE WARNING SURFACE AND THE ADJACENT WALKING SURFACE. USE "CHARCOAL" COLORED DETECTABLE WARNING MATERIAL WITH STANDARD CONCRETE UNLESS OTHERWISE NOTED.
5. EXPANSION JOINTS SHALL BE PLACED AT ALL PERIMETER EDGES ABUTTING CONCRETE, BUT NO JOINTS SHALL BE MADE IN THE RAMP ITSELF.
6. TRANSITION CURB MAY BE FORMED AT THE TIME OF CURB CONSTRUCTION OR MAY BE MONOLITHIC WITH THE RAMP, BUT IS INCLUDED WITH THE PAY ITEM FOR THE RAMP.
7. CURB RAMP SHALL CONFORM TO FDOT INDEX 522-002

2 CURB RAMP DETAIL

N.T.S.

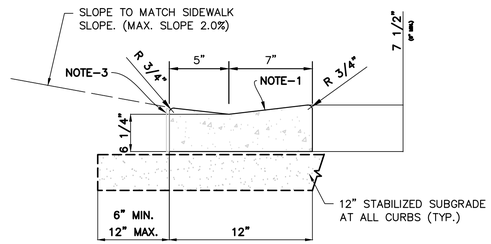


NOTES:

1. USE F.D.O.T. CLASS I CONCRETE (3,000 PSI).
2. SAW CUT CONTROL JOINTS IN NEW CURB AT 10' C/C WITHIN 24-HOURS OF POUR. REFER TO F.D.O.T. INDEX 300.
3. CONFORM WITH F.D.O.T. INDEX 300.

4 FDOT TYPE "D" CURB DETAIL

N.T.S.

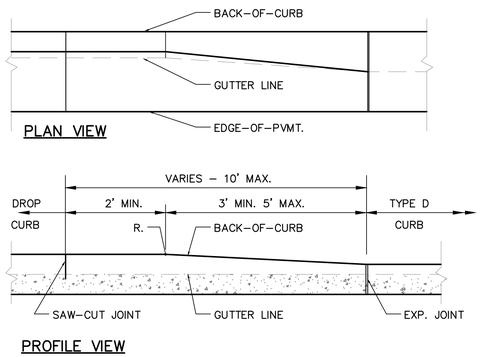


NOTES:

1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT WITH MAX SLOPE OF 2.0% THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.
2. USE FDOT CLASS I CONCRETE (3,000 PSI) CONFORMING TO FDOT SPEC. 346.
3. PROVIDE 1/2" SEALED EXP. JOINT WHEN ABUTTING CONCRETE.
4. PROVIDE SAW CUT CONTROL JOINTS AT 10' C/C MAX. WITHIN 24-HRS. OF POUR.

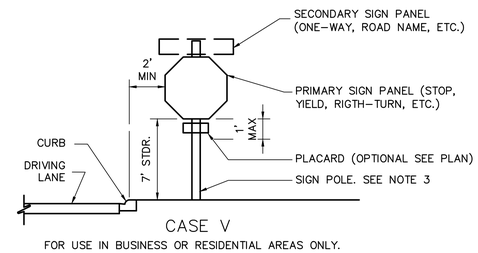
6 MODIFIED DROP CURB DETAIL

N.T.S.



7 CURB TRANSITION DETAIL

N.T.S.



CASE V

FOR USE IN BUSINESS OR RESIDENTIAL AREAS ONLY.

R1-1

POST MOUNTED SIGN DETAIL NOTES:

1. INSTALLATION HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL (M.U.T.C.D.) (7' CLEARANCE).
2. PROVIDE 30" MIN. STOP SIGN PANELS AND 36" STOP SIGN PANELS AT ROADWAY INTERSECTIONS. SIGN PANELS SHALL CONFORM TO FDOT SPEC. SECTION 994.
3. ALL SIGN POLES SHALL BE 3"ø MIN. ALUM. UNLESS OTHERWISE INDICATED IN THE LANDSCAPE ARCHITECT'S PLANS AND SPECS. PROVIDE STAINLESS STEEL BOLTS, NUTS & WASHERS. ALL POST SIGN ASSEMBLIES SHALL CONFORM TO FDOT INDEX 11860.
4. ROADSIDE SIGN PLACEMENT SHALL CONFORM TO FDOT INDEX 17302. ROADSIDE SIGNS SHALL BE INSTALLED AT AN ANGLE OF 1 TO 4 DEGREES AWAY FROM THE TRAFFIC FLOW (SEE ILLUSTRATION). SHOULDER MOUNTED SIGNS SHALL BE ROTATED COUNTERCLOCKWISE AND MEDIAN MOUNTED SIGNS ROTATED CLOCKWISE. SIGNS ON CURVES SHALL BE MOUNTED AS NOTED ABOVE FROM THE PERPENDICULAR TO THE MOTORISTS LINE OF SIGHT.
5. ALL TRAFFIC PAVEMENT MARKINGS SHALL BE THERMOPLASTIC CONFORMING TO FDOT SECTION 711. UNLESS OTHERWISE NOTED ON PLANS.
6. ALL SIGNS AND POSTS MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO PRODUCTION.

8 STOP SIGN DETAIL

N.T.S.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET, MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C-401

A GAI CONSULTANTS, INC SERVICE GROUP

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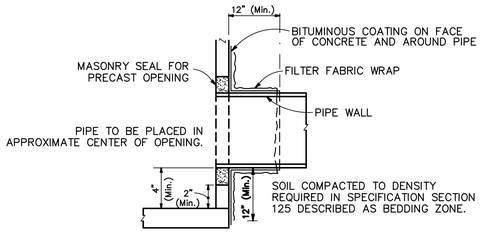
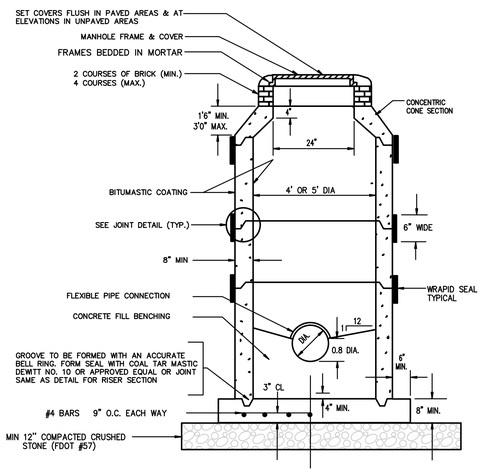
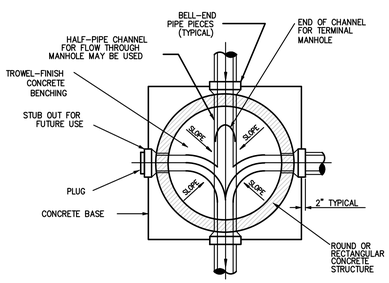


REFER TO FDOT STDR. 201

1 STORM PIPE TO STRUCTURE JOINT DETAIL

N.T.S.



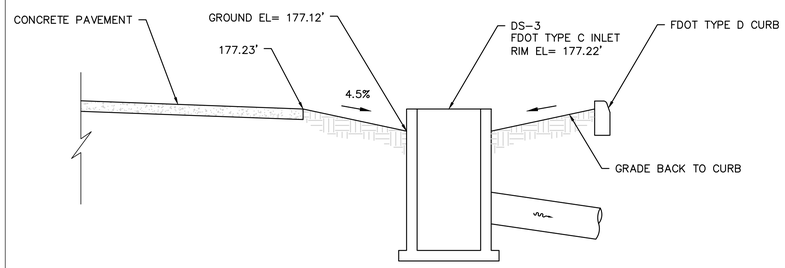


NOTES:

1. MANHOLE COVERS TYPICAL FOR ALL FRAME TYPES.
2. WRAPID SEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS: ON ALL JOINTS ON ROUND AIR RELEASE AND ROUND MANHOLE STRUCTURES.
3. WRAPID SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. MAXIMUM MANHOLE DEPTH SHALL BE 18 FEET TO BOTTOM OF SLAB

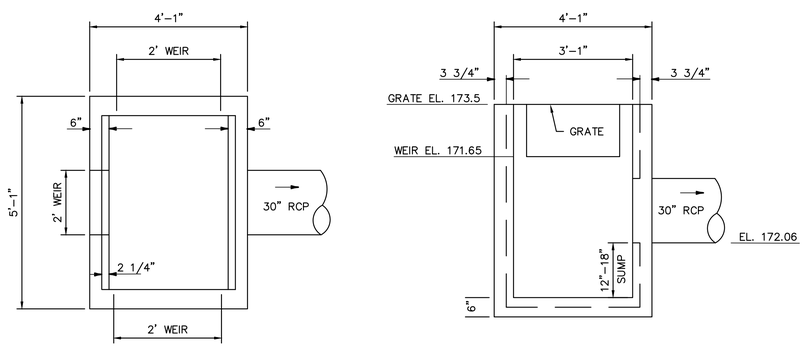
2 PRECAST CONCRETE MANHOLE DETAIL

N.T.S.



4 SECTION A-A

N.T.S.



1. CONTROL STRUCTURE SHALL HAVE STEEL GRATES. USE 4,000 PSI CONCRETE.
2. PRECAST IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C76 AND C478.
3. 6" MIN. CLEARANCE FROM O.D. OF PIPE TO INSIDE WALL OF INLET. GROUT OR"RAM-NEK" JOINTS WHERE REQUIRED.
4. SOD 16" ALL AROUND INLET.
5. REFER TO FDOT INDEX 232 (LATEST VERSION) FOR CONSTRUCTION DETAILS.

4 CONTROL STRUCTURE DETAIL (TYPE D INLET)

N.T.S.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET, MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

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APPROVED:	WSL

REGISTRATION

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C-402

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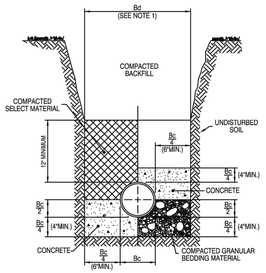
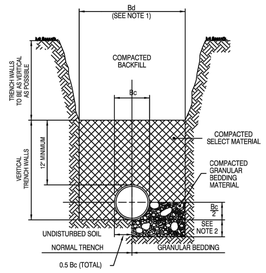


CLASS "A" BEDDING
SPECIAL CONDITIONS



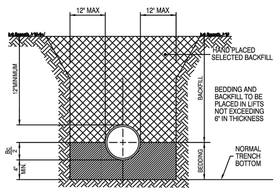
CLASS "B" BEDDING
NORMAL CONDITIONS

NOTES: FOR BEDDING AND TRENCHING

1. Dimension Bc = Pipe O.D.
   Dimension Bd = Trench Width at Top of Pipe
   Maximum Bd = Bc + 30"
   Minimum Bd = Maximum Dimension of Bell + 8" (Unsheeted Trench)

2. Depth for removal for unsuitable material shall be as required to reach suitable foundation. For rock or other non-cushioning material, depth shall be 6" below bottom of utility.

3. All backfill and select material under all roadways, drives (including dirt drives), and parking areas shall be compacted to 98% of the modified proctor maximum dry density. (AASHTO T-180). Backfill and select material under all other areas shall be compacted as follows: From bottom of trench to 12" above top of pipe - 95% of modified proctor maximum dry density (AASHTO T-180). From 12" above top of pipe to top of backfill - 90% of modified proctor maximum dry density (AASHTO T-180)

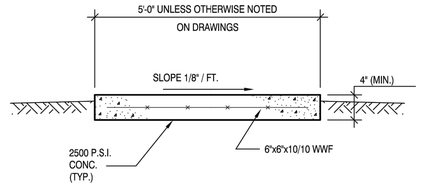


SANITARY SEWER
PIPE BEDDING

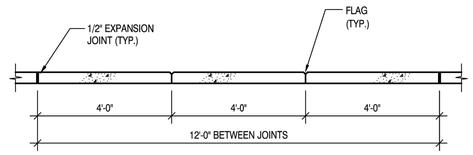
NOT TO SCALE

BEDDING DETAILS

GU0017-1
ISSUED: 2017
REVISED: --



SECTION

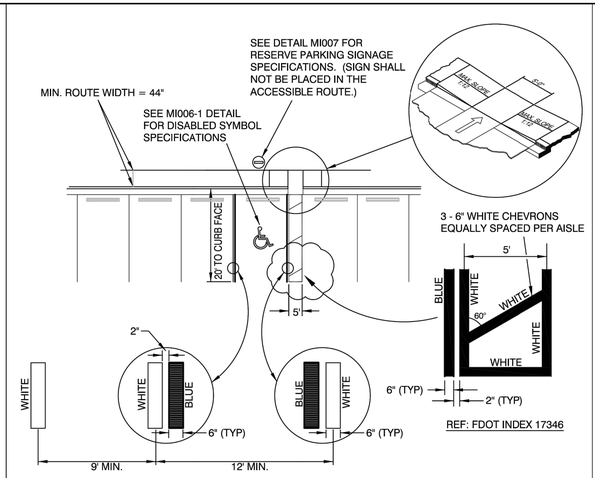


PROFILE

NOT TO SCALE

CONCRETE WALKWAY DETAIL

GU0019-1
ISSUED: 2017
REVISED: --



NOTES:

1. EACH ACCESSIBLE PARKING SPACE SHALL BE CONSPICUOUSLY STRIPED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND THE CAPTION "PARKING BY DISABLED PERMIT ONLY". SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL DISABLED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.
2. PARKING SPACE WIDTH AND ACCESS AISLES SHALL BE MEASURED FROM CENTER OF WHITE STRIPE TO CENTER OF WHITE STRIPE.
3. THIS DETAIL IS PROVIDED TO SUPPORT LDC SECTION 3.41.3.2
4. WHERE CURBING EXISTS PARALLEL TO STALL, BLUE LINE SHALL BE REQUIRED ADJACENT TO CURB (WHITE LINE WILL NOT BE REQUIRED).
5. CURB RAMPS CONSTRUCTED ON EXISTING SITES OR FACILITIES MAY HAVE SLOPES AND RISES AS ALLOWED IN ADA 4.1.6 (3) (a) IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS.

ACCESSIBLE PARKING - SINGLE SPACE STRIPING

GU0024-1
ISSUED: 2017
REVISED: --

STORM DRAINAGE CONSTRUCTION NOTES

1. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE UNLESS APPROVED BY THE CITY ENGINEER.
2. STORM DRAINAGE PIPES SHALL BE A MINIMUM OF FIFTEEN (15) INCH DIAMETER (15" FOR SHORT LATERAL RUNS ONLY - UP TO 75 FEET; ALL OTHERS, 18" MINIMUM.) OR EQUIVALENT AND BE DESIGNED IN ACCORDANCE WITH THE FDOT DRAINAGE MANUAL.
3. ALL PIPE TERMINUS SHALL BE MITERED END SECTIONS UNLESS A HEADWALL IS APPROVED FOR RESTRICTED LOCATIONS.
4. UNLESS OTHERWISE NOTED, ALL STRUCTURES SHALL MEET FDOT STANDARDS.
5. STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE EITHER POURED IN PLACE OR PRE-CAST REINFORCED CONCRETE. STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE, CHANGE IN PIPE DIRECTION, OR PIPE MATERIAL.
6. STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF PER FDOT DRAINAGE MANUAL.
7. MAXIMUM DISTANCES BETWEEN INLETS AND/OR MANHOLES:

PIPE SIZE (INCHES)	LENGTH RUN (FEET)	
15	75 *	See Note 2., Above.
18	150	
24	250	
30	300	
36	300	
42	400	
54 or greater	500	

8. ALL SWALES, DITCHES MAXIMUM SIDE AND BACK SLOPES MUST NOT BE GREATER THAN 3 TO 1.
9. NORMAL ROADSIDE SWALES SHALL BE CONSTRUCTED TO A MAXIMUM DEPTH OF 18" BELOW THE OUTSIDE EDGE OF PAVEMENT OR CONCRETE CURB.
10. CONCRETE EROSION CONTROL MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
11. WHEN A POND IS INCORPORATED WITHIN A SUBDIVISION, THE POND SHALL BE ON A SEPARATE TRACT, OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION. WHERE SUCH PONDS EXIST AND ARE BOUNDED IN WHOLE OR IN PART BY STREETS, A STRIP OF LAND NOT LESS THAN FIFTEEN (15) FEET WIDE ABUTTING SUCH STREET RIGHT-OF-WAY SHALL BORDER THE POND.

STORMWATER GENERAL NOTES

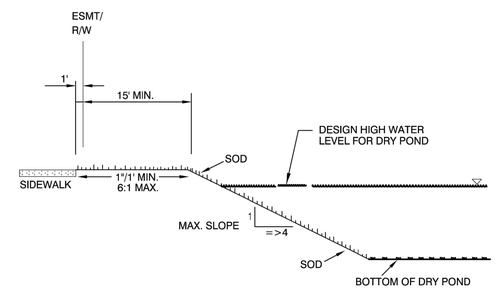
ST0001-1A
ISSUED: 2017
REVISED: --

STORM DRAINAGE CONSTRUCTION NOTES

12. POND INFLOW AND OUTLET STRUCTURES SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE AND SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
13. SOIL EROSION CONTROL MEASURES, IN CONFORMANCE WITH THE FLORIDA STORMWATER, EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL AND SATISFACTORY WITH THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.
14. THE DEVELOPER MUST SUBMIT A DRAINAGE REPORT BY A QUALIFIED HYDROLOGIST ON THE IMPACT THE POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS, BOTH DURING CONSTRUCTION AND AFTER COMPLETION. THE CITY ENGINEER MAY REQUIRE GROUNDWATER MONITORING DURING THE POND EXCAVATION.
15. ADEQUATE MAINTENANCE EASEMENTS OR RIGHT-OF-WAY AS APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED AROUND THE ENTIRE PERIMETER OF ALL PONDS AND ASSOCIATED OUTFALLS DISCHARGING INTO AND OUT OF PONDS. APPLICABLE CROSS SECTIONS SHALL BE INCLUDED ON ALL FINAL DEVELOPMENT PLANS.
16. DEVELOPMENT PLANS SHALL CONTAIN POP-OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, AND 100 YEAR HIGH WATER LEVELS.
17. RETENTION/DETENTION SITES MUST BE CONSTRUCTED ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DE-WATERING IS NOT REQUIRED.
18. THE ENGINEER OF RECORD IS REQUIRED TO OBTAIN, AND PROVIDE EVIDENCE OF, ANY AND ALL DE-WATERING PERMITS, SJRWMD PERMITS, EXEMPTION LETTERS, NPDES PERMITS, AND/OR ANY OTHER PERMITS THAT MAY BE REQUIRED, PRIOR TO SITE PLAN APPROVAL.
19. CULVERTS CROSSING RIGHT-OF-WAYS SHALL EXTEND FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE UNDER THE ROADWAY.

STORMWATER GENERAL NOTES

ST0001-1B
ISSUED: 2017
REVISED: --



NOTES:

THE SIDE SLOPES OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED AND MAINTAINED WITH AS FLAT A SLOPE AS POSSIBLE. WITH APPROVAL FROM THE CITY ENGINEER, SLOPES UP TO THREE (3) HORIZONTAL TO ONE (1) VERTICAL, ARE ACCEPTABLE, PROVIDED SOIL CONDITIONS ARE SUITABLE TO SUSTAIN ADEQUATE PLANT GROWTH AND TO CONTROL EROSION, AS CERTIFIED BY THE ENGINEER OF RECORD. RETENTION/DETENTION PONDS SHALL BE ENCLOSED WITH A GATED, SIX-FOOT-HIGH, FENCE WITH THE FOLLOWING EXCEPTIONS:

(1) WHERE THE MAXIMUM DESIGN WATER DEPTH IS LESS THAN TWO (2) FEET; AND/OR

(2) WHERE THE DETENTION FACILITY IS PART OF A LANDSCAPED AREA OR CONSERVATION SCHEME, AND, THE SIDE SLOPES TO WATER DEPTH OF THREE (3) FEET ARE CONSTRUCTED AND MAINTAINED AT A MAXIMUM SLOPE OF AT LEAST SIX HORIZONTAL TO ONE VERTICAL (6:1)

DRY RETENTION POND

ST0002-1
ISSUED: 2017
REVISED: --

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	08/2021
DRAWN:	ADL
CHECKED:	WSL
APPROVED:	WSL
REGISTRATION	

SHEET TITLE

CITY OF MT DORA DETAILS

SHEET NUMBER

C-403

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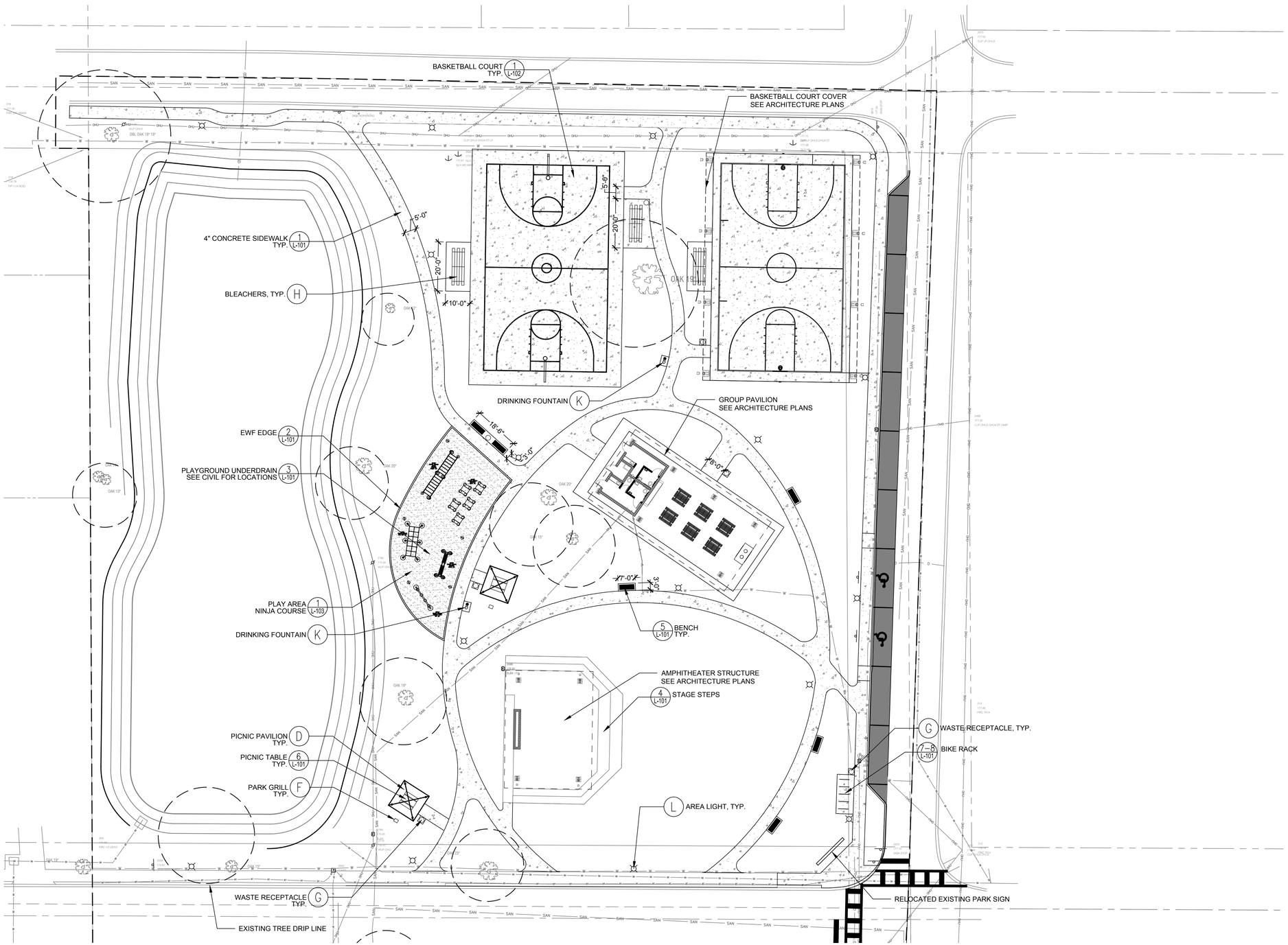

NORTH

0 20' 40'

FULL SCALE: 1"=20'
HALF SCALE: 1"=40'

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	05/2021
DRAWN:	ADL AP
CHECKED:	WSL KJA
APPROVED:	WSL KJA

REGISTRATION

HARDSCAPE PLAN

SHEET TITLE

SHEET NUMBER

L-100

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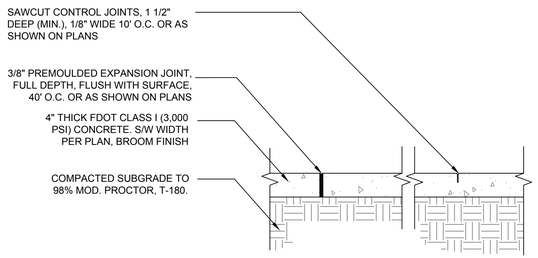
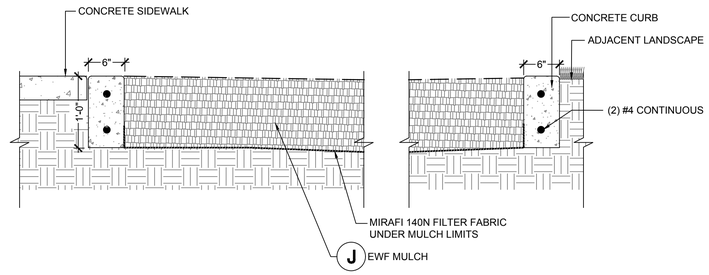


1 L-101 4" CONCRETE SIDEWALK

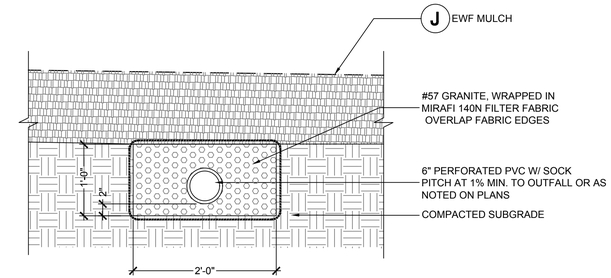
SCALE: 1"=1'-0"

NOTE:
BASE AND SUB-BASE DEPTHS TO BE DETERMINED BY PLAYGROUND TURF MANUFACTURER IN RESPONSE TO FALL HEIGHTS AND CODE REQUIREMENTS.



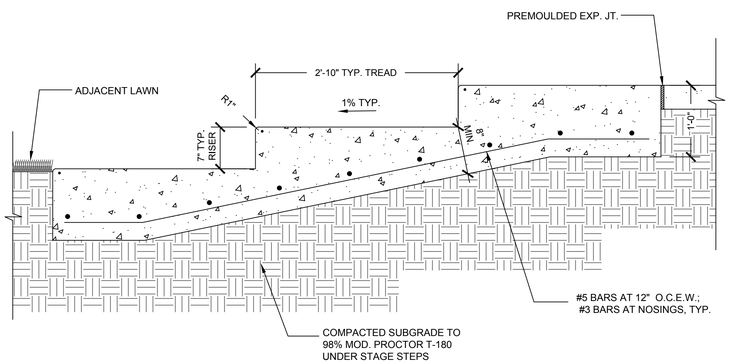
2 L-101 ENGINEERED WOOD FIBER SURFACE

SCALE: 1"=1'-0"



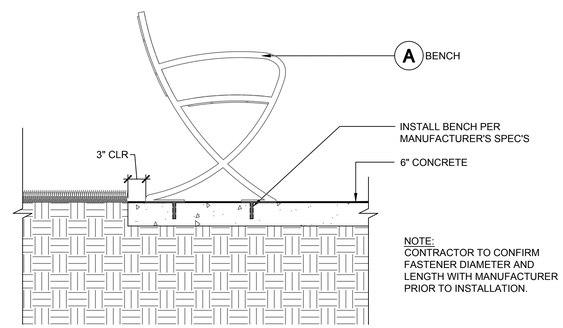
3 L-101 PLAYGROUND UNDERDRAIN

SCALE: 1"=1'-0"



4 L-101 STAGE STEP DETAIL

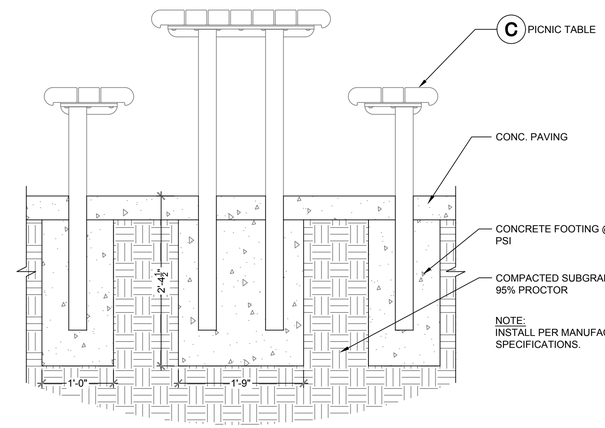
SCALE: 1"=1'-0"



NOTE:
CONTRACTOR TO CONFIRM FASTENER DIAMETER AND LENGTH WITH MANUFACTURER PRIOR TO INSTALLATION.

5 L-101 BENCH DETAIL

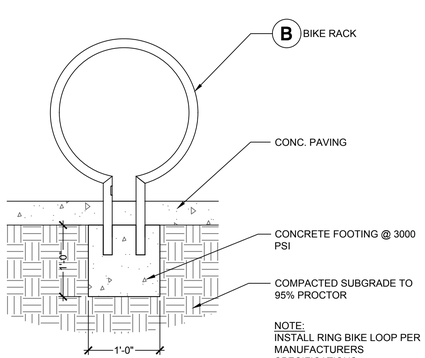
SCALE: 1"=1'-0"



NOTE:
INSTALL PER MANUFACTURERS SPECIFICATIONS.

6 L-101 PICNIC TABLE DETAIL

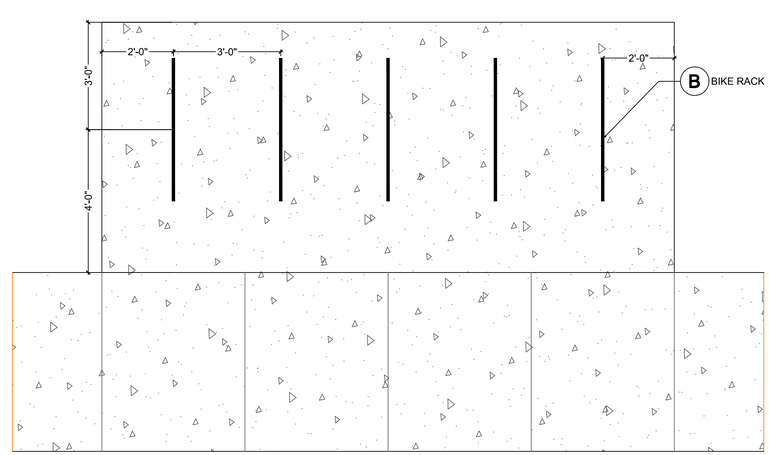
SCALE: 1"=1'-0"



NOTE:
INSTALL RING BIKE LOOP PER MANUFACTURERS SPECIFICATIONS.

7 L-101 BIKE RACK DETAIL

SCALE: 1"=1'-0"



8 L-101 BIKE RACK PLAN

SCALE: 1/2" = 1'-0"

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET, MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	05/2021
DRAWN:	ADL AP
CHECKED:	WSL KJA
APPROVED:	WSL KJA

REGISTRATION

HARDSCAPE DETAILS

SHEET TITLE

SHEET NUMBER

L-101

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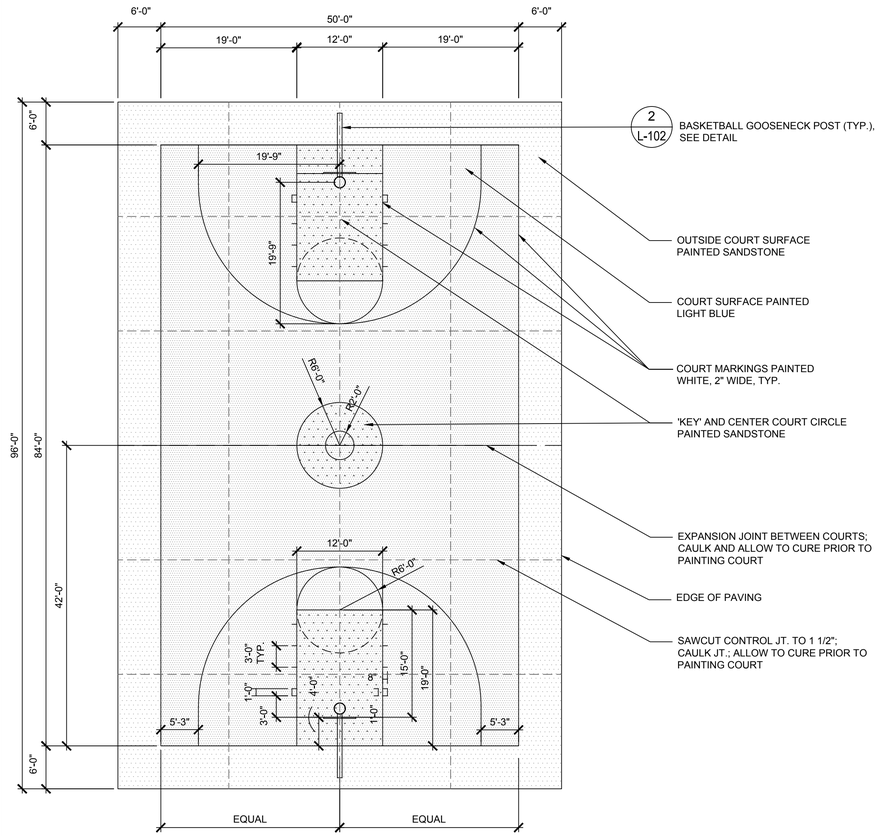
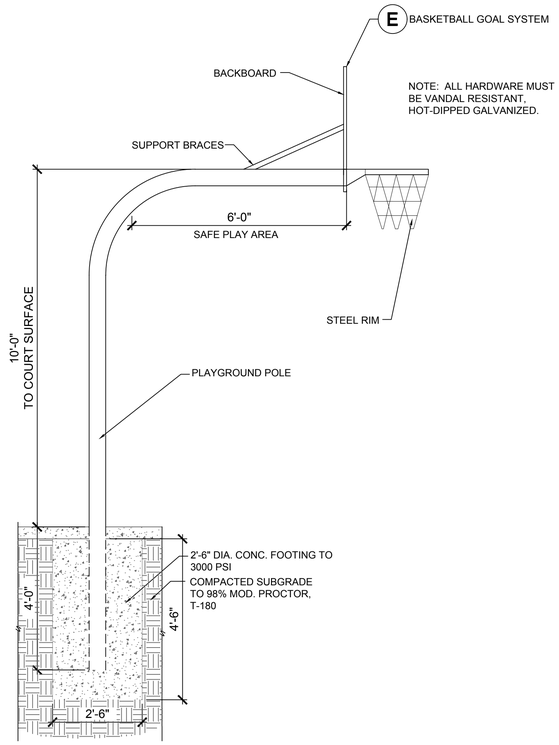


NOTE: DIMENSIONS PER FLHSAA RECREATION COURTS

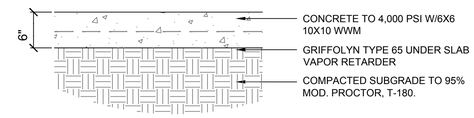
1 L-102 BASKETBALL COURT LAYOUT

SCALE: 1"=10'-0"



2 L-102 BASKETBALL GOOSENECK POST DETAIL

SCALE: 1/2"=1'-0"



3 L-102 BASKETBALL COURT SECTION

SCALE: 1"=1'-0"

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DRAWN:	ADL AP
CHECKED:	WSL KJA
APPROVED:	WSL KJA

REGISTRATION

HARDSCAPE DETAILS

SHEET TITLE

SHEET NUMBER

L-102

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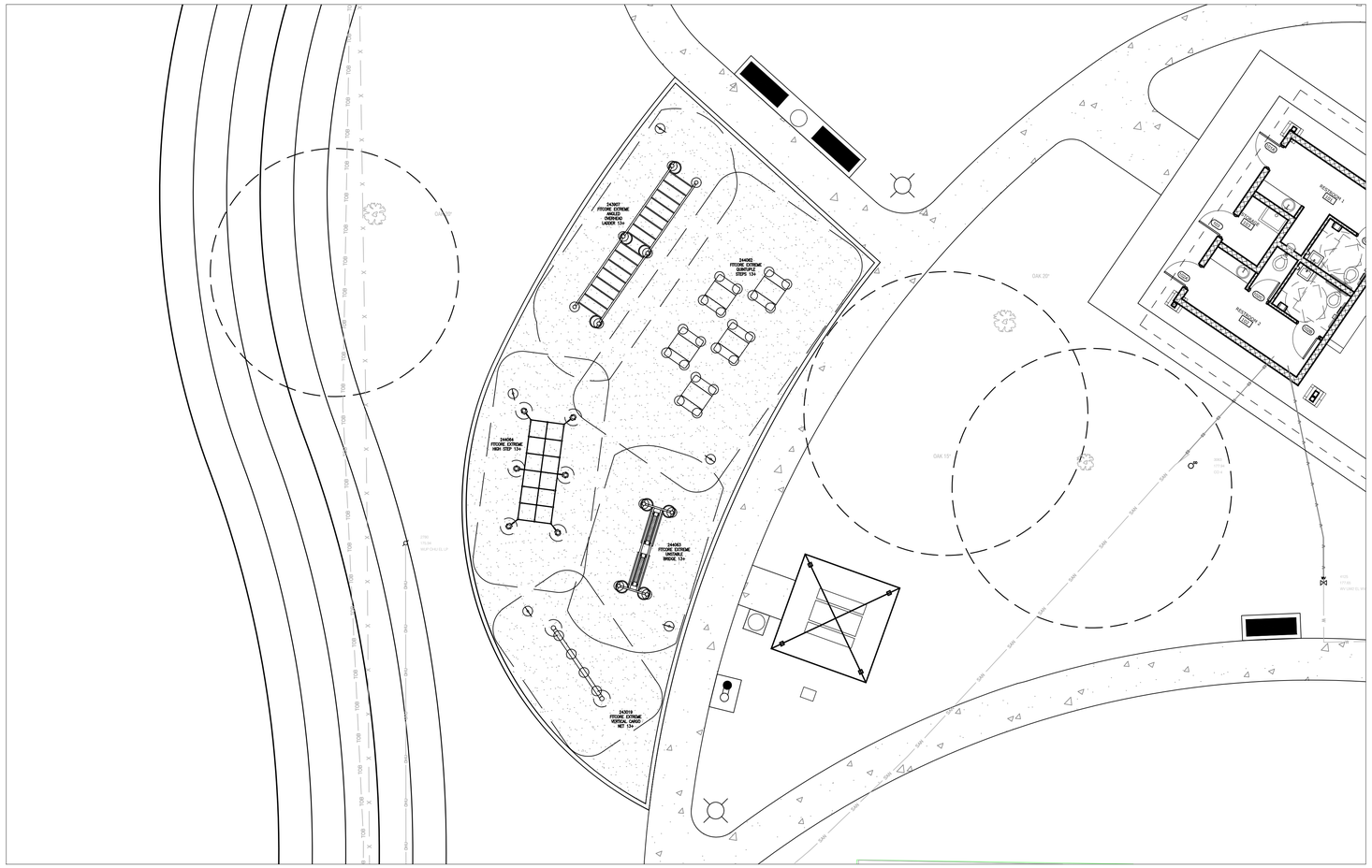

1 L-103 NINJA COURSE

SCALE: 1/8" = 1'-0"

2 L-103 NINJA COURSE

SCALE: 1/8" = 1'-0"

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1717 N. HIGHLAND STREET,
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CONSULTANTS

REVISIONS:

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DATE:	05/2021
DRAWN:	ADL AP
CHECKED:	WSL KJA
APPROVED:	WSL KJA

REGISTRATION

HARDSCAPE DETAILS

SHEET TITLE

SHEET NUMBER

L-103

A GAI CONSULTANTS, INC SERVICE GROUP

1 L-104 BENCH (A) SCALE: N.T.S.

2 L-104 BIKE RACK (B) SCALE: N.T.S.

3 L-104 PICNIC TABLE (C) SCALE: N.T.S.

4 L-104 PICNIC PAVILION (D) SCALE: N.T.S.

5 L-104 BASKETBALL GOAL SYSTEM (E) SCALE: N.T.S.

6 L-104 PARK GRILL (F) SCALE: N.T.S.

7 L-104 WASTE RECEPTACLES (G) SCALE: N.T.S.

8 L-104 BLEACHERS (H) SCALE: N.T.S.

9 L-104 DRINKING FOUNTAIN (K) SCALE: N.T.S.

10 L-104 AREA LIGHT (L) SCALE: N.T.S.

FINISH SCHEDULE

SYM	ITEM	SPECIFICATIONS
A	BENCH	TYPE: LIL-20CA - LILY BENCH W/ CURVED ARMRESTS COLOR: BLACK FINISH: STEEL W/ RECYCLED SOLID STEEL SEAT SURFAC SOURCE: VICTOR STANLEY; www.victorstanley.com
B	BIKE RACK	TYPE: RING BIKE RACK COLOR: FINISH: STAINLESS STEEL SOURCE: LANDSCAPE FORMS; www.landscapeforms.com
C	PICNIC TABLE	TYPE: 100-60PL - DUMOR TABLE 100 COLOR: CEDAR RECYCLED PLASTIC SLATS FINISH: BLACK POWDERCOATED STEEL SOURCE: DUMOR; www.dumor.com
D	PICNIC PAVILION	TYPE: SQR12 - 12' SQUARE HIP ROOF SHELTER COLOR: TBD FINISH: TBD SOURCE: POLIGON, www.poligon.com
E	BASKETBALL GOAL SYSTEM	TYPE: PACKAGE PR77 W/ BA70PP POLE PADDING COLOR: NATURAL FINISH: HOT DIPPED GALVANIZED SOURCE: BISON INC., www.bisoninc.com
F	PARK GRILL	TYPE: 21-00 - DUMOR GRILL 21 COLOR: FINISH: SOURCE: DUMOR; www.dumor.com
G	WASTE RECEPTACLE	TYPE: SGE-36SA - SAGE W/ PERFORATED STEEL PANELS COLOR: BLACK FINISH: SOURCE: VICTOR STANLEY; www.victorstanley.com
H	BLEACHERS	TYPE: BLU-109 - 15' BLEACHER, 3 ROWS, SINGLE FOOTBOARDS COLOR: FINISH: ALUMINUM SOURCE: BELSON; www.belson.com
I	COURT PAINT	TYPE: SPORTSMASTER SPORTS SURFACES COLOR: SEE DETAIL 1/L-102 FINISH: SOURCE: SPORTMASTER; www.sportmaster.net
J	ENGINEERED WOOD FIBER MULCH	TYPE: ENGINEERED WOOD FIBER MULCH COLOR: FINISH: SOURCE: IMULCHFL; www.imulchfl.com
K	DRINKING FOUNTAIN	TYPE: GYM74-CH30 BOTTLE FILLER W/ DRINKING FOUNTAIN COLOR: FINISH: SATIN STAINLESS FINISH SOURCE: MURDOCK; www.murdockmfg.com
L	AREA LIGHT	TYPE: COLOR: FINISH: SOURCE:

NOTE: CONTRACTOR MUST SUBMIT SAMPLES AND/OR OBTAIN SHOP DRAWING APPROVAL FOR ALL FINISH SCHEDULE ITEMS.

COMMUNITY SOLUTIONS GROUP

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1717 N. HIGHLAND STREET,
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60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER A171115.07

DATE: 05/2021

DRAWN: ADL AP

CHECKED: WSL KJA

APPROVED: WSL KJA

REGISTRATION

FINISH SCHEDULE

SHEET TITLE

SHEET NUMBER

L-104

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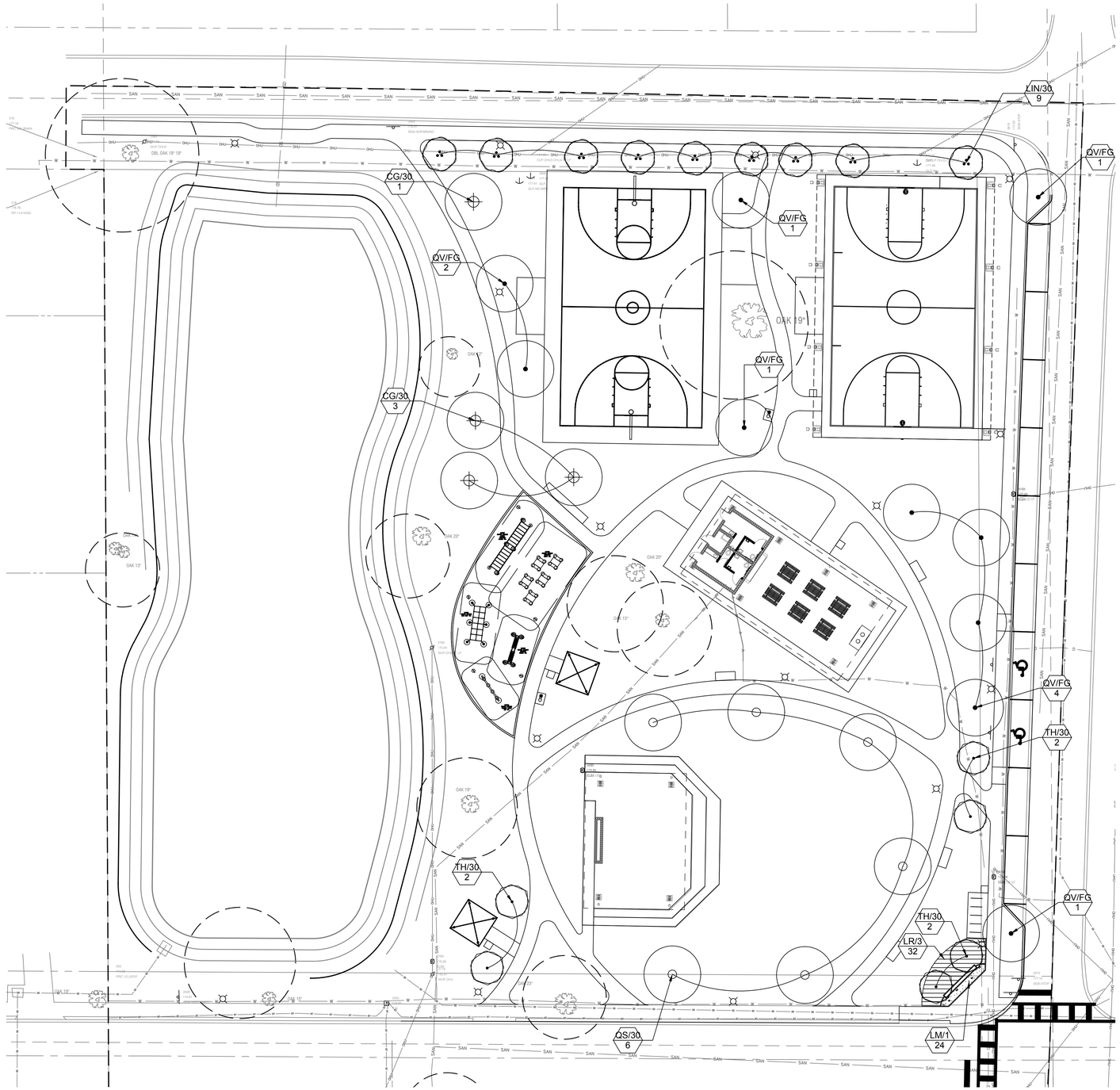

NORTH

0 20' 40'

FULL SCALE: 1"=20'
HALF SCALE: 1"=40'

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	
CG/30	4	Carya glabra	Pignut Hickory	30 gal		
LIN/30	9	Lagerstroemia indica `Natchez`	Crape Myrtle	30 GAL.	2" CAL.	
QS/30	6	Quercus shumardii	Shumard Oak	30 gal	2" CAL.	
QV/FG	10	Quercus virginiana	Southern Live Oak	FG.	3.5" CAL.	
TH/30	6	Tabebuia heterophylla	Pink Tabebuia	30 gal		
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
LM/1	24	Liriope muscari `Emerald Goddess`	Liriope	1 GAL.	10"-14" HT., 5-7 PPP	18" o.c.
LR/3	32	Loropetalum chinense `Plum`	Plum Loropetalum	3 GAL.	18"-24" OA	36" o.c.
SOD	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING	
PN	Paspalum notatum	Bahia Grass	SOD	12"x18" solid sod pieces		

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PROJECT

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1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	05/2021
DRAWN:	ADL AP
CHECKED:	WSL KJA
APPROVED:	WSL KJA

REGISTRATION

LANDSCAPE PLAN

SHEET TITLE

SHEET NUMBER

L-200

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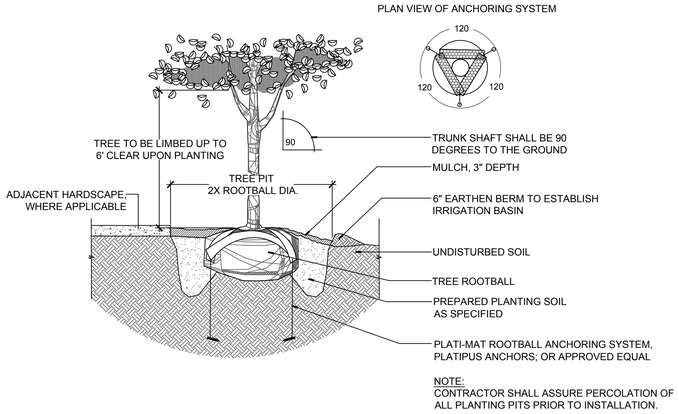
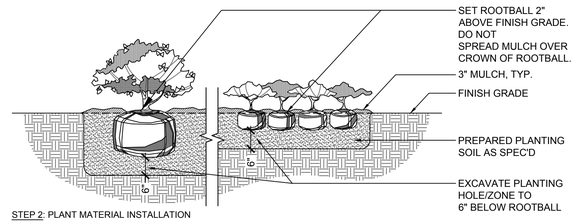


NOTE:
CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

1 L-201 CANOPY TREE PLANTING DETAIL
SCALE: N.T.S.

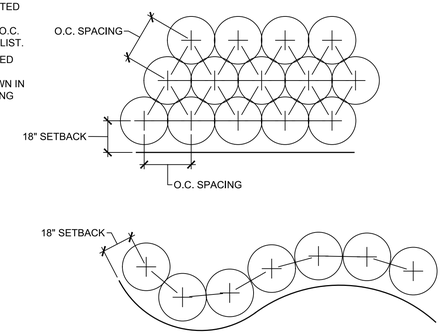


STEP 2: PLANT MATERIAL INSTALLATION

2 L-201 SHRUB & GROUNDCOVER PLANTING
SCALE: N.T.S.

NOTES:

1. THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED AT WITH A ROW OF PLANTS AS SHOWN IN THIS DETAIL, AT THE O.C. SPACING SHOWN IN THE PLANT LIST.
2. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED IN A TRIANGULAR PATTERN AS SHOWN IN THIS DETAIL, AT THE O.C. SPACING SHOWN IN THE PLANT LIST.
3. SETBACKS ARE APPLICABLE AGAINST ALL HARDSCAPE SURFACES AND SOD EDGES.



3 L-201 TRIANGULAR PLANT LAYOUT DETAIL
SCALE: N.T.S.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

REVISIONS:

PROJECT NUMBER	A171115.07
DATE:	05/2021
DRAWN:	ADL AP
CHECKED:	WSL KJA
APPROVED:	WSL KJA

REGISTRATION

LANDSCAPE DETAILS

SHEET TITLE

SHEET NUMBER

L-201

A GAI CONSULTANTS, INC SERVICE GROUP

Z:\INFRA\2017\A171115.07 - CAULEY & LILLIE MP\CAD\PRODUCTION DRAWINGS\A171115.07 - L-200 LS DETAILS.DWG
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APPLICABLE CODES

DEPARTMENT	CODE	EDITION
BUILDING	FLORIDA BUILDING CODE (FBC)	2020, 7th EDITION
ACCESSIBILITY	FLORIDA BUILDING CODE - ACCESSIBILITY (FBC)	2020, 7th EDITION
MECHANICAL	FLORIDA BUILDING CODE - MECHANICAL (FBC)	2020, 7th EDITION
PLUMBING	FLORIDA BUILDING CODE - PLUMBING (FBC)	2020, 7th EDITION
ENERGY CONSERVATION	FLORIDA BUILDING CODE - ENERGY CONSERVATION (FBC)	2020, 7th EDITION
ELECTRICAL	NATIONAL ELECTRICAL CODE (NEC)	2017 EDITION
FIRE	FLORIDA FIRE PREVENTION CODE (FFPC) NFPA-1 & NFPA-101: 2020	2020, 7th EDITION

PROJECT INFORMATION

SCOPE OF PROJECT	PAVILLION - RESTROOM	BASKETBALL COURT	AMPHITHEATER	
OCCUPANCY CLASSIFICATION	UTILITY - U	UTILITY - U	UTILITY - U	FBC BUILDING (SECTION 508)
SQUARE FOOTAGE	SF: 2,150 GSF	SF: 5,808 GSF	SF: 1,617 GSF	
ALL 3 STRUCTURES ARE OPEN AIR STRUCTURES				

TYPE OF CONSTRUCTION

	PAVILLION - RESTROOM	BASKETBALL COURT	AMPHITHEATER	
CONSTRUCTION TYPE	TYPE VB NFPA: V(000)	TYPE VB NFPA: V(000)	TYPE VB NFPA: V(000)	
BUILDING HEIGHT	ALLOWABLE: 40' HT - 2 STORIES ACTUAL: 18' HT. - 1 STORY	ALLOWABLE: 40' HT - 2 STORIES ACTUAL: 18' HT. - 1 STORY	ALLOWABLE: 40' HT - 2 STORIES ACTUAL: 26' HT. - 1 STORY	FBC BUILDING (SECTION 504)
ALLOWABLE AREA	ALLOWABLE: 16,500 SF ACTUAL: 2,150 SF	ALLOWABLE: 16,500 SF ACTUAL: 5,808 SF	ALLOWABLE: 16,500 SF ACTUAL: 1,617 SF	FBC BUILDING (SECTION 506.2)
SPRINKLERED OR NON-SPRINKLERED	NON-SPRINKLERED	NON-SPRINKLERED	NON-SPRINKLERED	
PROTECTED OR UNPROTECTED	UNPROTECTED	UNPROTECTED	UNPROTECTED	

INTERIOR WALL AND CEILING FINISH REQUIREMENTS

UTILITY - (U) NON SPRINKLERED		
EXITS - NO RESTRICTIONS	EXIT ACCESS - NO RESTRICTIONS	OTHER SPACES - NO RESTRICTIONS

BUILDING FIRE-RESISTANCE RATING REQUIREMENTS (HOURS)

BASED UPON TYPE VB CONSTRUCTION

BUILDING ELEMENT	FIRE RESISTANCE RATING REQUIREMENTS	FBC BUILDING (SECTION 601)
STRUCTURAL FRAME	0 HOURS	
BEARING WALL (EXTERIOR)	0 HOURS	
BEARING WALL (INTERIOR)	0 HOURS	
NON - BEARING WALL (EXTERIOR)	0 HOURS	
NON - BEARING WALL (INTERIOR)	0 HOURS	
FLOOR CONSTRUCTION	0 HOURS	
ROOF CONSTRUCTION	0 HOURS	

PLUMBING CODE ANALYSIS

PLUMBING FIXTURES	EXISITNG		PROPOSED		FPC PLUMBING (TABLE 403.1)
	MALE	FEMALE	MALE	FEMALE	
WATER CLOSETS	2	2	2	2	
LAVATORIES	1	1	2	2	
DRINKING FOUNTAINS	1		2		
SERVICE SINK	1		1		

ARCHITECTURAL GENERAL NOTES

1. THESE DRAWINGS HAVE BEEN PREPARED TO THE BEST OF OUR ABILITY TO BE IN COMPLIANCE AND CONFORMANCE WITH THE FEDERAL ACCESSIBILITY LAW CONTAINED WITHIN THE AMERICANS WITH DISABILITIES ACT GUIDELINES FOR DESIGN.
2. THE DESIGN AND DRAWINGS OF THIS PROJECT HAVE BEEN SPECIFICALLY PREPARED FOR THE USE AND CONSTRUCTION AT THE LOCATION SHOWN. REPRODUCTION FOR USE IN ANY OTHER SITE OR MANNER EXCEEDS THE INTENDED PURPOSE OF THESE DOCUMENTS AND IS PROHIBITED.
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BELOW GRADE AND RELATED SERVICE CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANIES. CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT OR RELOCATION OF EXISTING UTILITIES SHOWN ON THESE DOCUMENTS WITH RESPECTIVE UTILITY COMPANIES. ANY INTERRUPTIONS IN EXISTING UTILITY SERVICES NEEDS TO BE COORDINATED AND APPROVED BY THE UTILITY COMPANY PRIOR TO START OF WORK.
4. CONTRACTOR SHALL PERFORM ALL WORK WITHIN PUBLIC RIGHTS OF WAY BY THE GOVERNING AGENCY AND SHALL OBTAIN NECESSARY APPROVALS AS REQUIRED.
5. ARCHITECT SHALL BE NOTIFIED BY CONTRACTOR OF ANY DISCREPANCIES ON THESE DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
6. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS FOR COMPARISON TO THE DOCUMENTS PRIOR TO BIDDING AND THE COMMENCEMENT OF CONSTRUCTION. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS BEFORE THE COMMENCEMENT OF WORK.
7. ALL CONSULTANT DRAWINGS SHALL BE CONSIDERED COMPLIMENTARY TO THE ARCHITECT'S DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE CONSULTANT DRAWINGS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS BEFORE THE COMMENCEMENT OF WORK.
8. DO NOT SCALE THESE DRAWINGS. CONTRACTOR SHALL RELY ON THE DIMENSIONS SHOWN AND SHALL FIELD VERIFY ALL DIMENSIONS AND COORDINATE THE WORK WITH ALL TRADES. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS BEFORE THE COMMENCEMENT OF WORK.
9. GC TO PROVIDE KNOX BOX TO THE RIGHT OF THE DOOR AT 7'-0" AFF.

ABBREVIATIONS

AB	ANCHOR BOLTS
AC or A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPR	APPROVED
BD or BRD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BOB	BOTTOM OF BEAM
BOT	BOTTOM
C/C	CENTER TO CENTER
CEM	CEMENT
CER	CERAMIC
CH	CEILING HEIGHT
CJ	CONTROL JOINT
CLG or CEIL	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CORR	
CSK	CORRIDOR COUNTERSINK
DBL	
DF	DOUBLE
DIA	DRINKING FOUNTAIN
DIAG	DIAMETER
DIM	DIAGONAL
DN	DIMENSION
DO	DOWN
DR	DOOR OPENING
DS	DOOR
DTL	DOWNSPOUT
DWG	DETAIL DRAWINGS
EA	
EJ	EACH
ELEC	EXPANSION JOINT
ELEV or EL	ELECTRICAL
EQ	ELEVATION
EQUIP	EQUAL
EXIST	EQUIPMENT
EXT	EXISTING
EWC	EXTERIOR ELEC. WATER COOLER

FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FULL HEIGHT
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FO	FINISHED OPENING
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FOUND	FOUNDATION
FOW	FACE OF WALL
FS	FLOOR SINK
FT	FEET
GA	GAUGE
GALV	GALVANIZE
GL	GLASS
GR	GRADE
GYP BD	GYPSUM BOARD
GWB	
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
LAV	LAVATORY
LEV	LEVEL
LTG	LIGHTING
LT WT	LIGHT WEIGHT
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	METAL THRESHOLD
MULL	MULLION
N	NEW
NO	NUMBER
NR	NON-RATED
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE

PC	PORTLAND CEMENT
PL	PLATE
PLYWD	PLYWOOD
PR	PAIR
PREP	PREPARATION
PROJ	PROJECTION
QT	QUARRY TILE
R	RISER
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REINF	REINFORCE
REQ'D	REQUIRED
REV	REVERSE
RM	ROOM
RO	ROUGH OPENING
SCWD	SOLID CORE WOOD DOOR
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SIMUL	SIMULATED
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T	TREAD
TB	TACKBOARD
T&G	TONGUE AND GROOVE
TEMP	TEMPERED
TEL	TELEPHONE
THK	THICK
TOC	TOP OF CONCRETE / CURB
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WC	WATER CLOSET
WD	WOOD
WI	WROUGHT IRON
WL	WATER LEVEL
WP	WATERPROOFING

MATERIALS LEGEND

BATT INSULATION	RIGID INSULATION
CONCRETE	METAL / STEEL
EARTH OR FINISHED GRADE	PLYWOOD
GRATING, SPAN DIRECTION INDICATED	WOOD BLOCKING / WOOD FRAMING (THROUGH MEMBER)
GYPSUM WALLBOARD / PLASTER	WOOD BLOCKING / WOOD FRAMING (INTERRUPTED MEMBER)
MASONRY - CONCRETE BLOCK (PLAN)	FINISH WOOD
METAL STUD WALL (PLAN)	SAND / MORTAR PLASTER

ANNOTATION LEGEND

SYMBOL	DESCRIPTION
101	DOOR IDENTIFIER
L-1	LOUVER IDENTIFIER
1i	PARTITION TYPE IDENTIFIER
1i	CURTAIN WALL IDENTIFIER
1t	WINDOW IDENTIFIER
0	GRID REFERENCE INDICATOR
	KEYNOTE
1 A101	DETAIL INDICATOR / DETAIL CALLOUT
1 A101 1 1	ELEVATION INDICATOR
1 A101	SECTION HEAD INDICATOR
N	NORTH ARROW
	DIRECTION OF SLOPE DOWN
	BREAK LINE
℄	CENTER LINE
CJ	CONTROL JOINT
EJ	EXPANSION JOINT
1	REVISION TAG
FIN. FLR. X'-X"	ELEVATION TAG
Room name 101	ROOM IDENTIFICATION TAG
	1 HR RATED WALL
	2 HR RATED WALL

DIMENSIONING CONVENTIONS

1. DIMENSIONS ARE INDICATED ON DRAWINGS; DO NOT SCALE DRAWINGS.
2. DIMENSIONS SHOWN ARE TO FACE OF STUDS, MASONRY OR CONCRETE AND ARE INDICATED WITH A DIAGONAL MARK.
3. CLEAR DIMENSIONS AND DIMENSIONS TO FACE OF FINISH ARE NOTED WITH A LEADER HEAD.
4. CENTERLINE DIMENSIONS ARE INDICATED WITH A 'CL'.
5. WALLS, PARTITIONS OR MULLIONS THAT ARE DIMENSIONED TO THE CENTERLINE ARE SHOWN WITH A DASHED LINE.
6. ELEMENTS THAT ARE CENTERED BETWEEN TWO WALLS ARE SHOWN WITH 'EQ.' SYMBOLS.
7. UNLESS NOTED OTHERWISE, DOORS ARE LOCATED 4" FROM THE CORNER IN METAL FRAMED WALLS AND 8" FROM A CORNER IN CMU WALLS.
8. DIMENSIONS TO ROUGH OPENINGS (RO) OR MASONRY OPENINGS (MO) ARE NOTED ACCORDINGLY.

X'-X"	FACE OF MASONRY UNIT TO FACE OF MASONRY UNIT
X'-X"	CENTERLINE OF COLUMN TO CENTERLINE OF COLUMN
X'-X"	FACE OF METAL STUD TO FACE OF METAL STUD

COMMUNITY SOLUTIONS GROUP

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

SHEET TITLE

PAVILION BUILDING GENERAL INFORMATION & CODE ANALYSIS

SHEET NUMBER

G0.001

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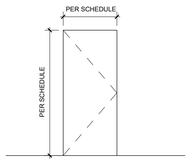
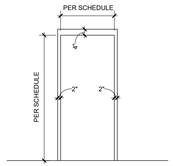


F
Flush Door
Elevation



F1
STANDARD

DOOR SCHEDULE

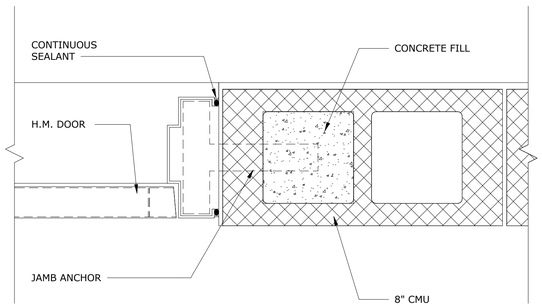
DOOR						FRAME					
NUMBER	TYPE	WIDTH	HEIGHT	THK	DOOR MAT	FRAME TYPE	FRAME MAT	HARDWARE GROUP	HEAD DETAIL	JAMB DETAIL	KEYNOTES
101A	F	3' - 0"	7' - 2"	1 3/4"	HM	F1	HM		2/G2.101	1/G2.101	1, 2, 4, 6, 7
101B	F	3' - 0"	7' - 2"	1 3/4"	HM	F1	HM		2/G2.101	1/G2.101	1, 2, 3, 4, 6
102A	F	3' - 0"	7' - 2"	1 3/4"	HM	F1	HM		2/G2.101	1/G2.101	1, 2, 4, 6, 7
102B	F	3' - 0"	7' - 2"	1 3/4"	HM	F1	HM		2/G2.101	1/G2.101	1, 2, 3, 4, 6
102C	F	2' - 6"	7' - 0"	1 3/4"	HM	F1	HM		2/G2.101	1/G2.101	1, 2, 3, 4, 6
103	F	3' - 0"	7' - 2"	1 3/4"	HM	F1	HM		2/G2.101	1/G2.101	1, 2, 4, 6, 7

DOOR NOTES

1. ALL HARDWARE TO MEET APPLICABLE LOCAL, STATE AND FEDERAL CODES.
2. CONTRACTOR TO PREP DOORS AS NECESSARY TO RECEIVE SPECIFIED HARDWARE.
3. ALL HOLLOW METAL FRAMES SHALL BE WELDED CONSTRUCTION; 'KNOCK-DOWN' FRAMES ARE NOT ACCEPTABLE.
4. ALL HOLLOW METAL FRAMES TO BE PAINTED
5. DOOR HARDWARE TO BE LEVER STYLE ADA COMPLIANT HARDWARE.

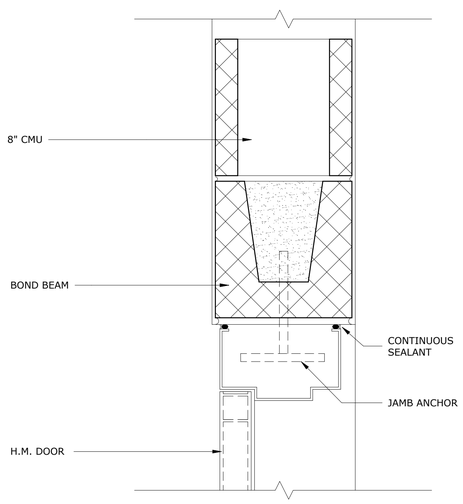
DOOR SCHEDULE KEYNOTES

1. SELF-CLOSING HARDWARE (CLOSERS)
2. UNDER-CUT DOOR 3/4"
3. COAT HOOK
4. DOOR STOP
5.
6. DOOR SILENCERS
7. WEATHER STRIPPING & SEALS TO ALL EXTERIOR DOORS



JAMB DETAIL | 1

3" = 1'-0"



HEAD DETAIL | 2

3" = 1'-0"

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

SHEET TITLE

PAVILION BUILDING
DOOR SCHEDULE &
DETAILS

SHEET NUMBER

G2.101

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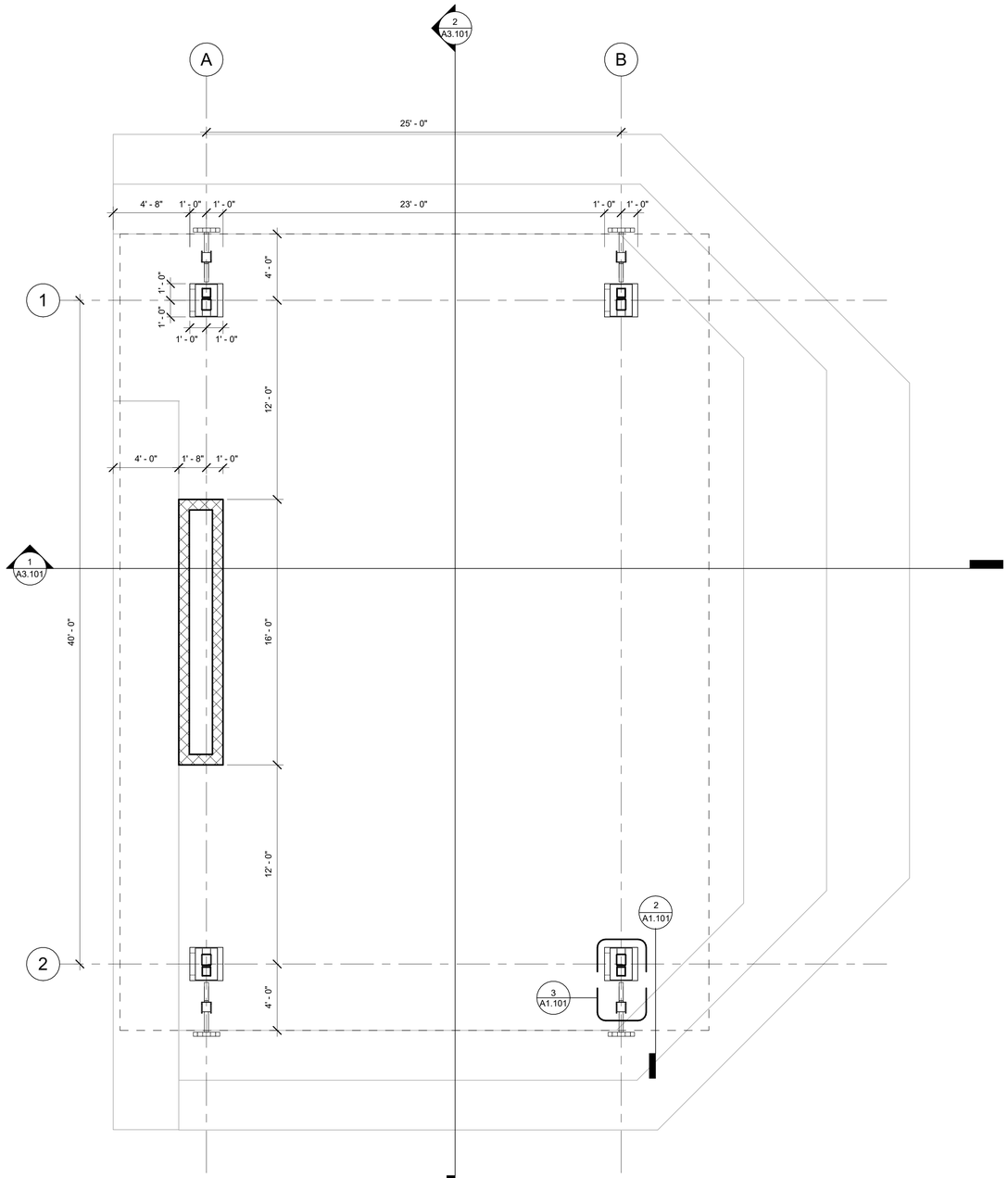
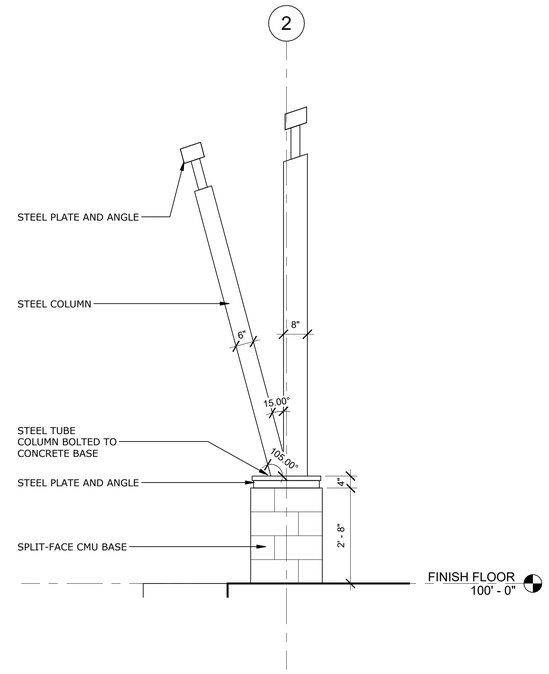


N

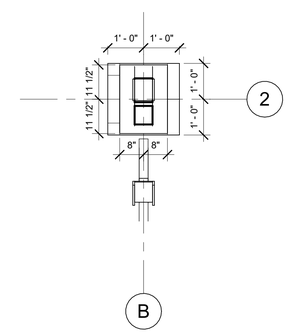
FLOOR PLAN | 1

1/4" = 1'-0"



COLUMN ELEVATION | 2

1/2" = 1'-0"



COLUMN PLAN DETAIL | 3

1/2" = 1'-0"

FLOOR PLAN NOTES

1. DO NOT SCALE THESE DRAWINGS.

2. THE INTENT OF THESE DRAWINGS IS TO INDICATE THE SCOPE OF WORK REQUIRED IN ORDER TO CONSTRUCT A COMPLETE AND FINISHED BUILDING READY FOR OCCUPANCY. THE CONTRACTOR AND SUB-CONTRACTORS ARE EXPECTED TO VISIT THE PROJECT SITE PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT - PRIOR TO CONSTRUCTION - OF ANY DISCREPANCIES WITHIN THE DRAWINGS OR POSSIBLE CONFLICTS WHICH AFFECT THE PROGRESS OF THIS PROJECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

3. ALL DIMENSIONS ON FLOOR PLANS ARE FROM FACE OF STUD TO STUD OF WALL, UNLESS NOTED OTHERWISE. DIMENSIONS TO EXTERIOR WALLS ARE TO INSIDE FACE OF STRUCTURE.

4. PROVIDE TILE BACKER BOARD AT ALL TILE LOCATIONS. PROVIDE WATER RESISTANT GYPSUM BOARD BEHIND ALL SINK LOCATIONS.

5. PROVIDE BLOCKING FOR ALL GRAB BARS, TV'S AND OTHER WALL MOUNTED FIXTURES AS REQUIRED.

6. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING AND FIRE SAFETY CODES.

COMMUNITY SOLUTIONS GROUP

gai consultants

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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	CG
CHECKED:	MH
APPROVED:	MH
REGISTRATION	MH

SHEET TITLE

AMPHITHEATER
FLOOR PLAN

SHEET NUMBER

A1.101

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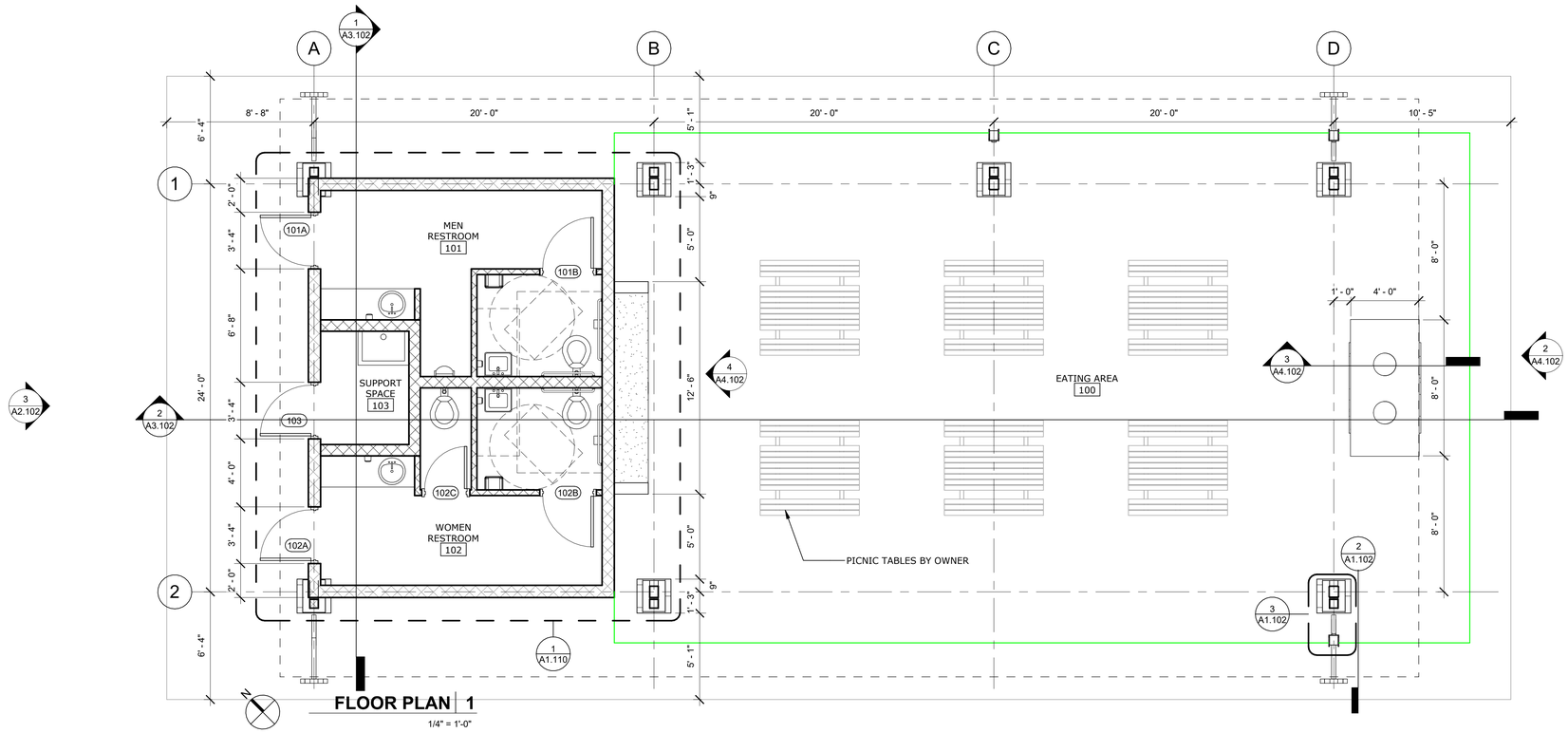
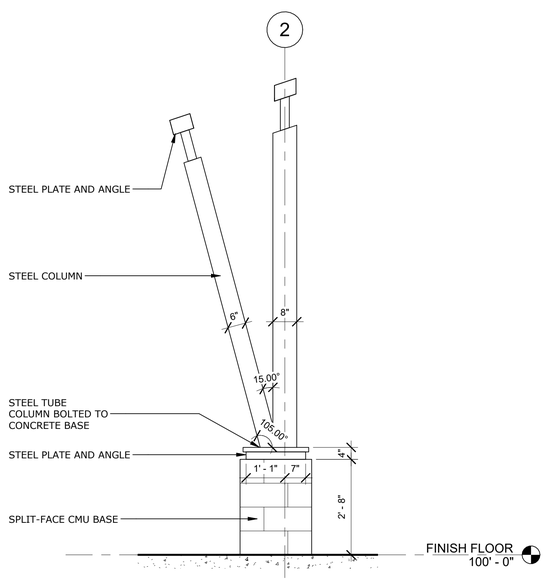


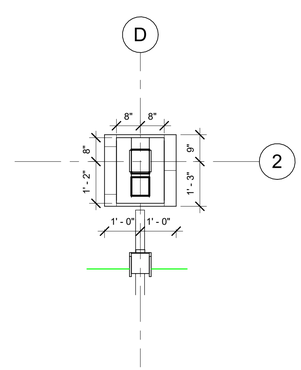
FLOOR PLAN | 1

1/4" = 1'-0"



COLUMN ELEVATION | 2

1/2" = 1'-0"



COLUMN PLAN DETAIL | 3

1/2" = 1'-0"

FLOOR PLAN NOTES

1. DO NOT SCALE THESE DRAWINGS.

2. THE INTENT OF THESE DRAWINGS IS TO INDICATE THE SCOPE OF WORK REQUIRED IN ORDER TO CONSTRUCT A COMPLETE AND FINISHED BUILDING READY FOR OCCUPANCY. THE CONTRACTOR AND SUB-CONTRACTORS ARE EXPECTED TO VISIT THE PROJECT SITE PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT - PRIOR TO CONSTRUCTION - OF ANY DISCREPANCIES WITHIN THE DRAWINGS OR POSSIBLE CONFLICTS WHICH AFFECT THE PROGRESS OF THIS PROJECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

3. ALL DIMENSIONS ON FLOOR PLANS ARE FROM FACE OF STUD TO STUD OF WALL, UNLESS NOTED OTHERWISE. DIMENSIONS TO EXTERIOR WALLS ARE TO INSIDE FACE OF STRUCTURE.

4. PROVIDE TILE BACKER BOARD AT ALL TILE LOCATIONS. PROVIDE WATER RESISTANT GYPSUM BOARD BEHIND ALL SINK LOCATIONS.

5. PROVIDE BLOCKING FOR ALL GRAB BARS, TV'S AND OTHER WALL MOUNTED FIXTURES AS REQUIRED.

6. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING AND FIRE SAFETY CODES.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	CG
CHECKED:	MH
APPROVED:	MH
REGISTRATION	MH

SHEET TITLE

PAVILION BUILDING
FLOOR PLAN

SHEET NUMBER

A1.102

A GAI CONSULTANTS, INC SERVICE GROUP

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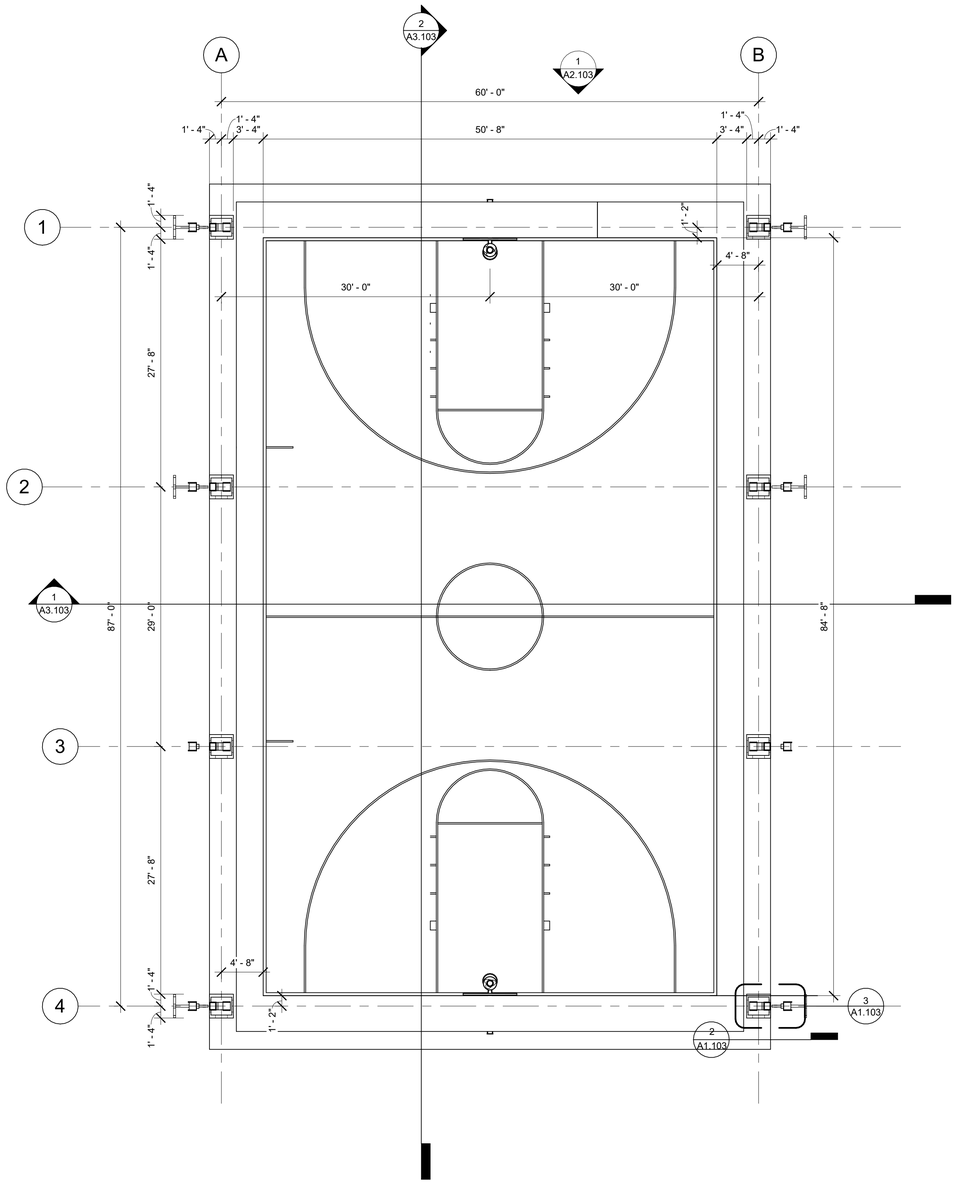
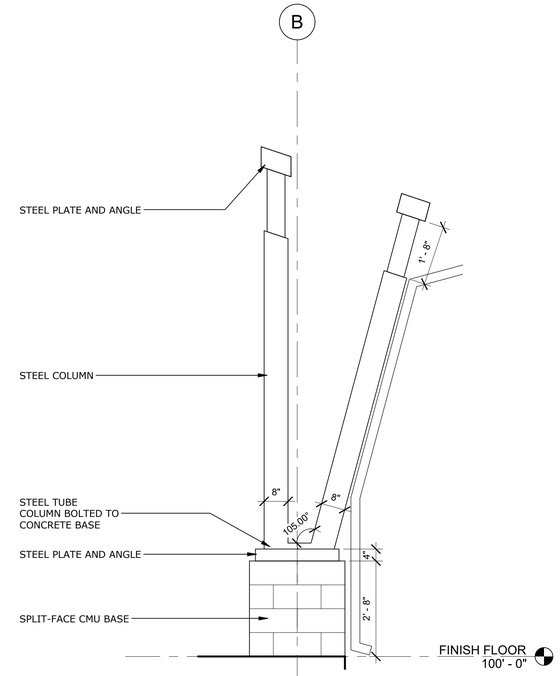


N

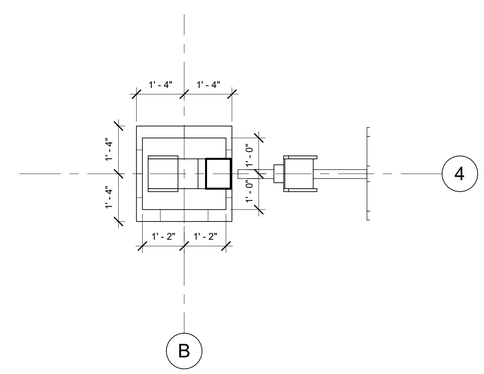
FLOOR PLAN | 1

1/8" = 1'-0"



COLUMN ELEVATION | 2

1/2" = 1'-0"



COLUMN PLAN DETAIL | 3

1/2" = 1'-0"

FLOOR PLAN NOTES

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	CG
CHECKED:	MH
APPROVED:	MH
REGISTRATION	MH

SHEET TITLE

BASKETBALL COURT
FLOOR PLAN

SHEET NUMBER

A1.103

A GAI CONSULTANTS, INC SERVICE GROUP

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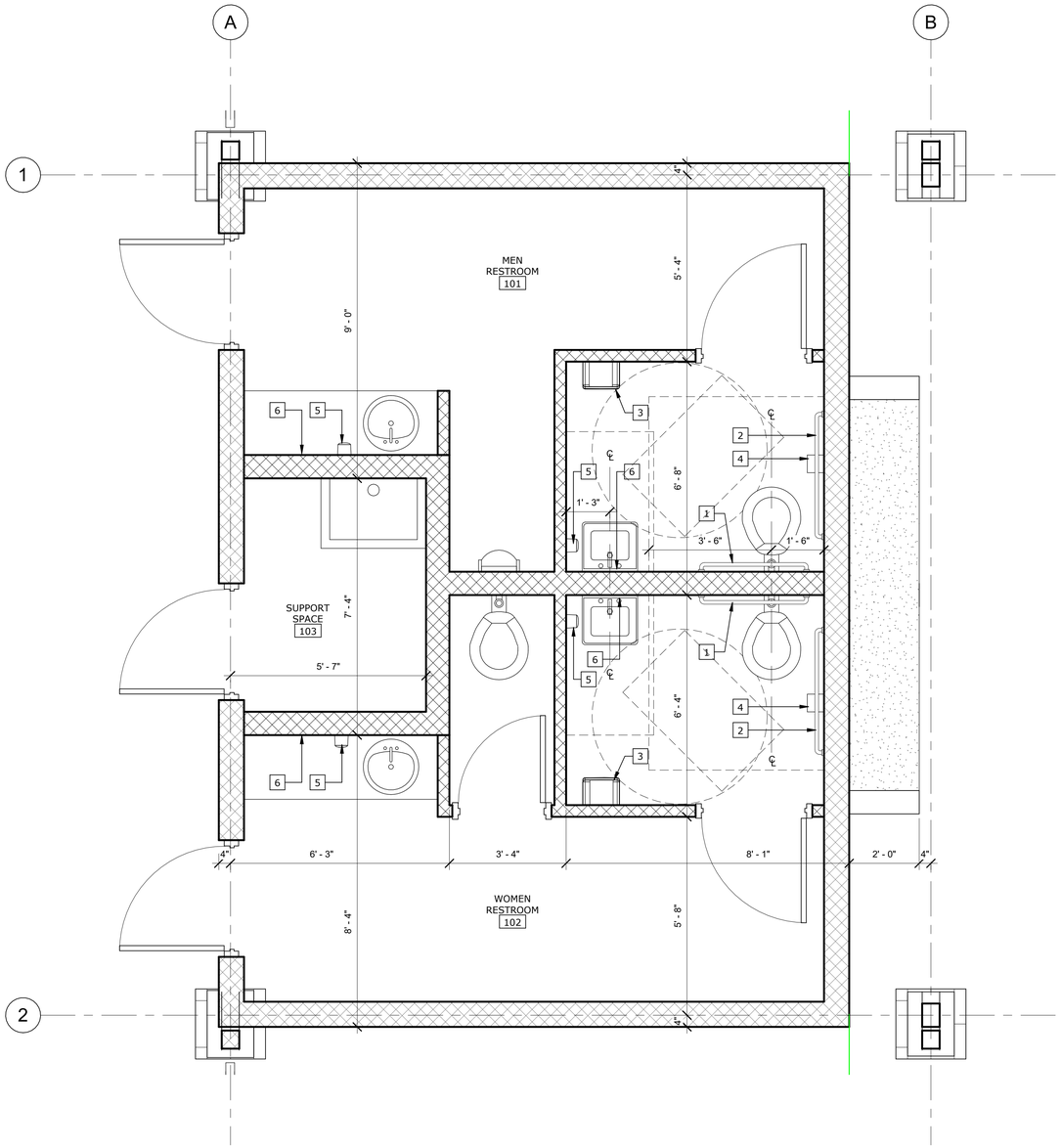
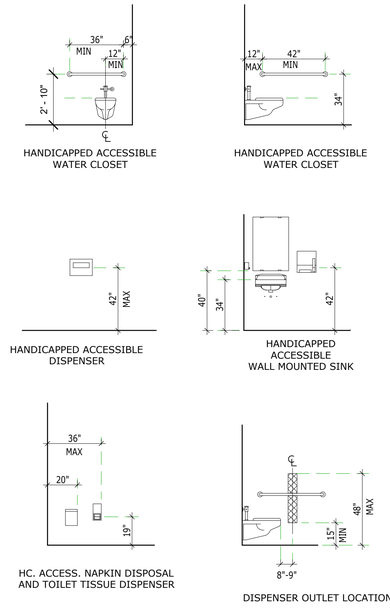


RESTROOM - ENLARGED PLAN | 1

1/2" = 1'-0"



ACCESSORY MOUNTING HEIGHTS | 2

1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

NOT...	TAG	DESCRIPTION	MODEL #
A	1	GRAB BAR, 1 1/2" X 36"	GB36
A	2	GRAB BAR, 1 1/2" X 42"	GB42
B	3	SURFACE MOUNTED HAND DRYER	
B	4	TOILET TISSUE DISPENSER	
B	5	SOAP DISPENSER	
A	6	FRAMED SECURITY MIRROR	FMR1

SCHEDULE NOTE:
A = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
B = OWNER FURNISHED, CONTRACTOR INSTALLED

TOILET ACCESSORIES ARE BASED UPON WILLOUGHBY INDUSTRIES PRODUCTS UNO.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

SHEET TITLE

PAVILION BUILDING
ENLARGED PLANS &
DETAILS

SHEET NUMBER

A1.110

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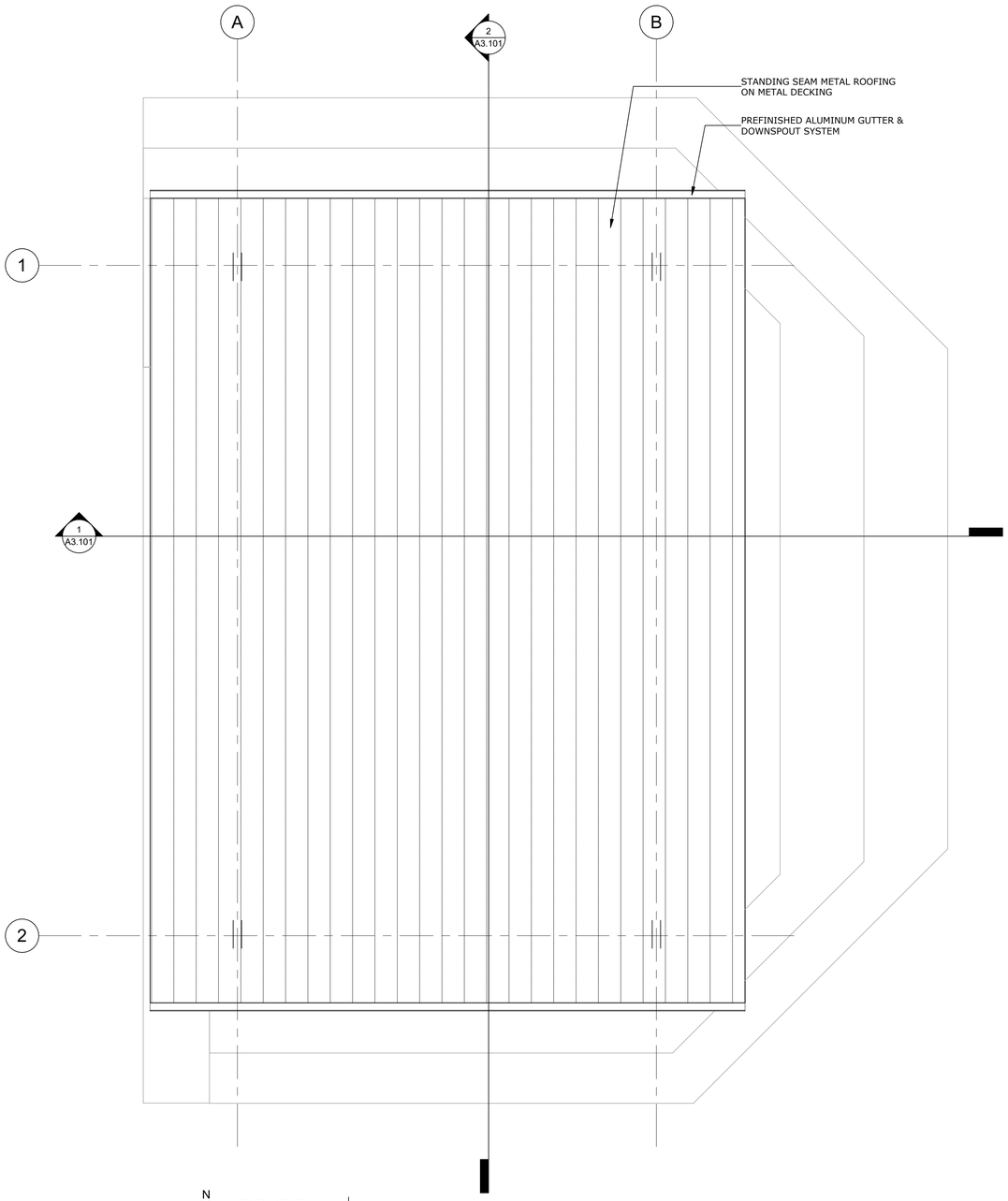

ROOF PLAN | 1

1/4" = 1'-0"

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

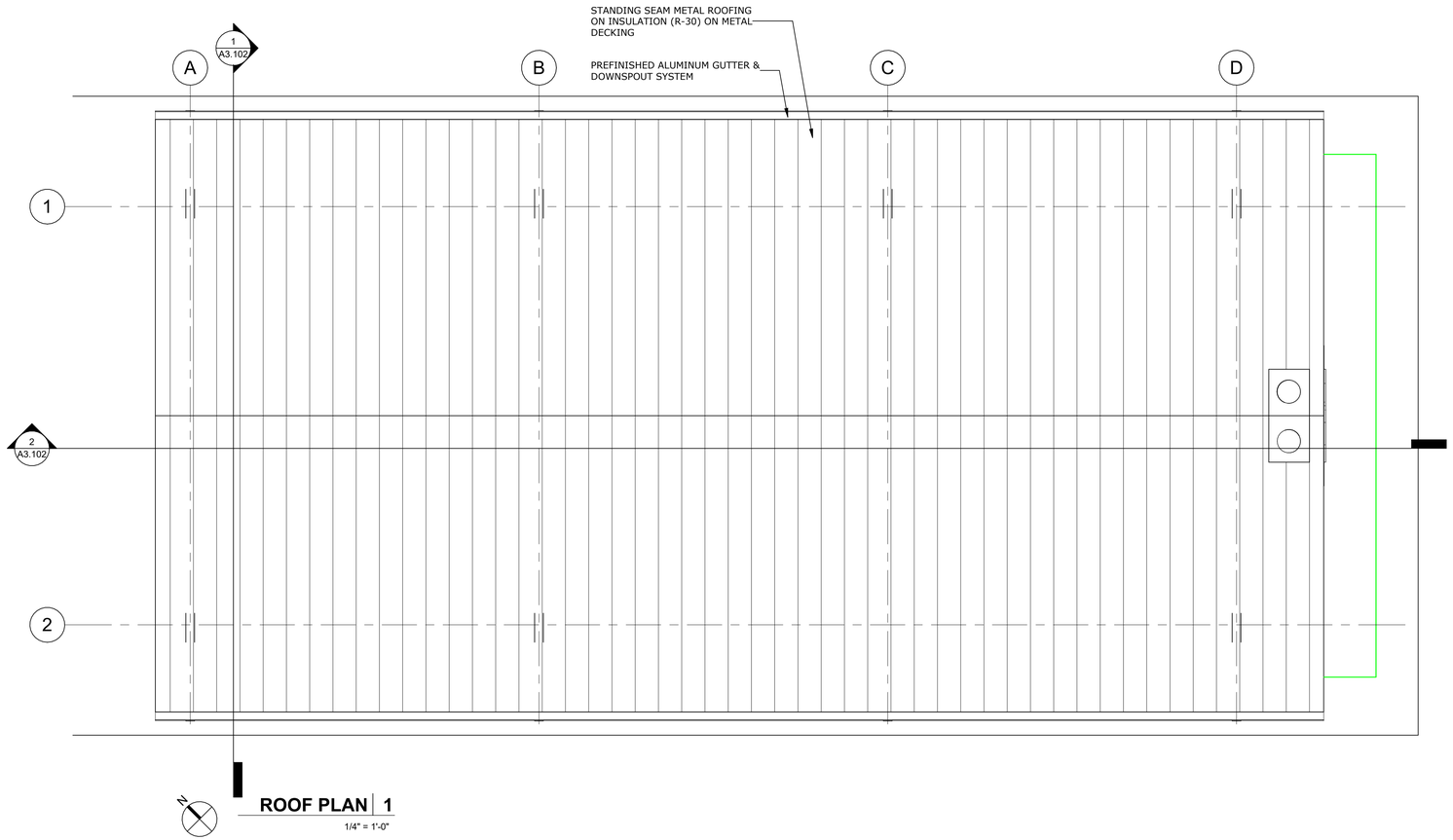
SHEET TITLE

AMPHITHEATER
ROOF PLANS & DETAILS

SHEET NUMBER

A1.201

A GAI CONSULTANTS, INC SERVICE GROUP



ROOF PLAN | 1

1/4" = 1'-0"

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR007645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

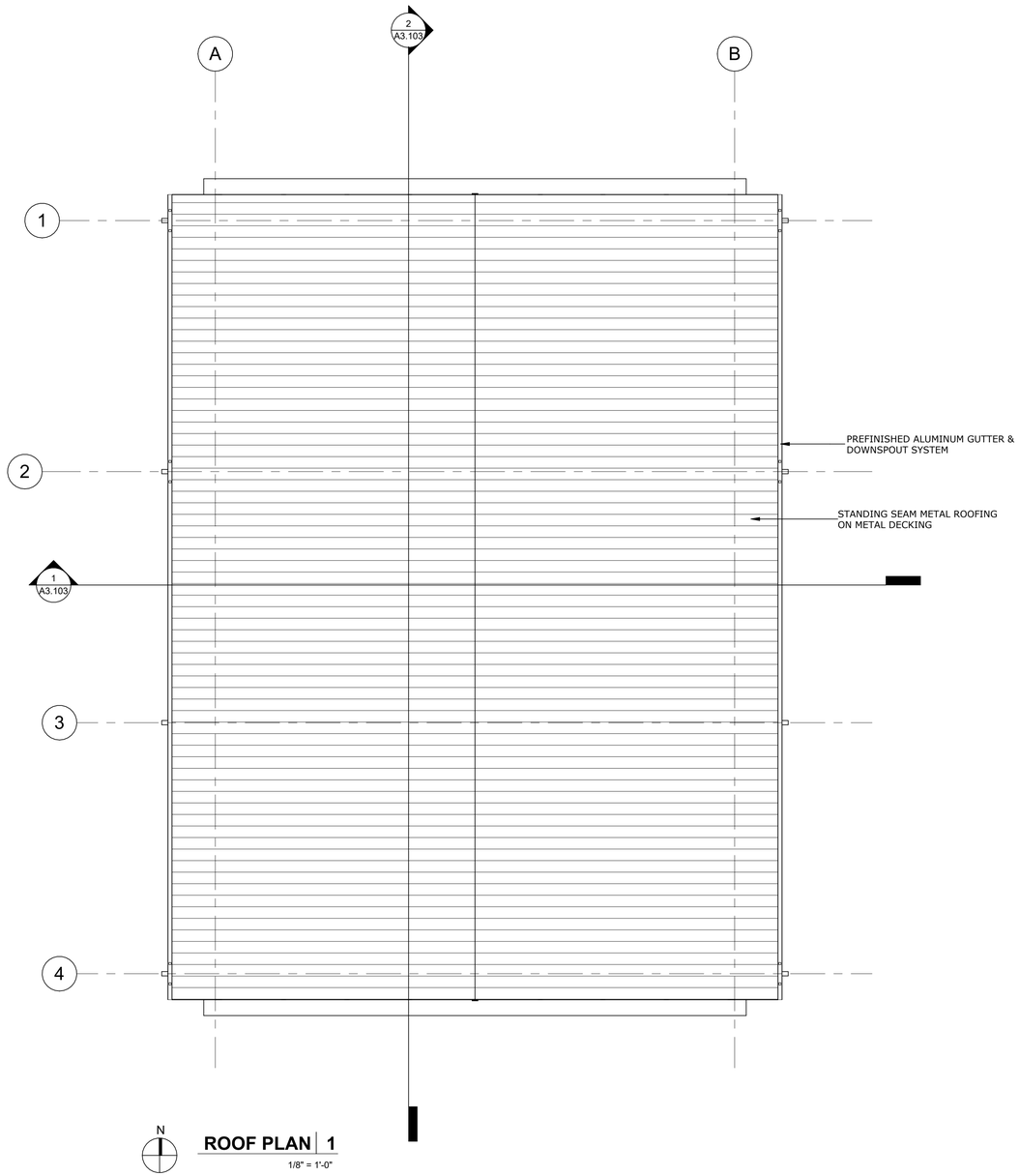
SHEET TITLE

PAVILION BUILDING
ROOF PLANS & DETAILS

SHEET NUMBER

A1.202

A GAI CONSULTANTS, INC SERVICE GROUP



ROOF PLAN | 1

1/8" = 1'-0"

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017945

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

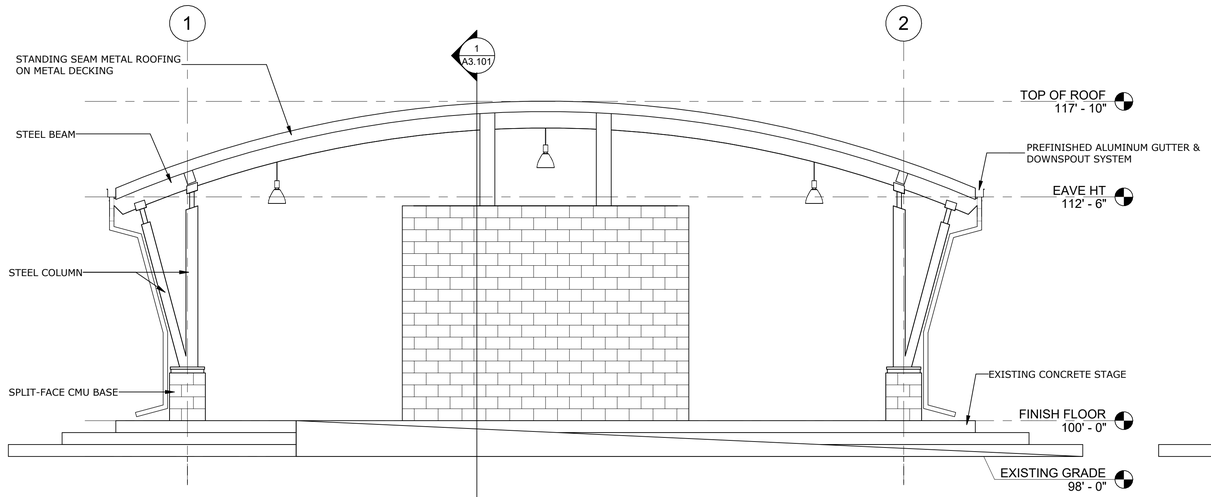
SHEET TITLE

BASKETBALL COURT
ROOF PLANS & DETAILS

SHEET NUMBER

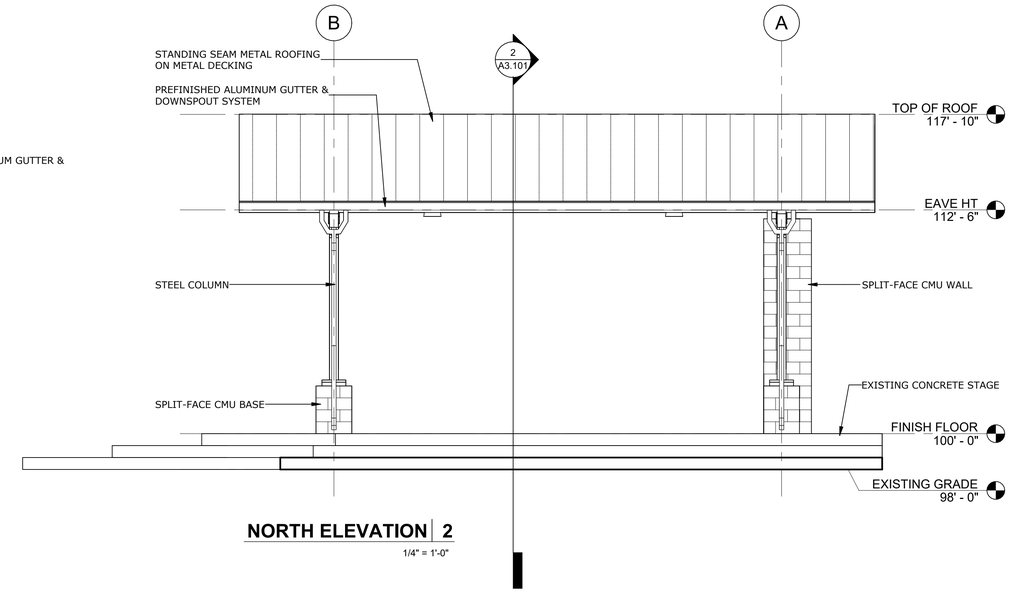
A1.203

A GAI CONSULTANTS, INC SERVICE GROUP



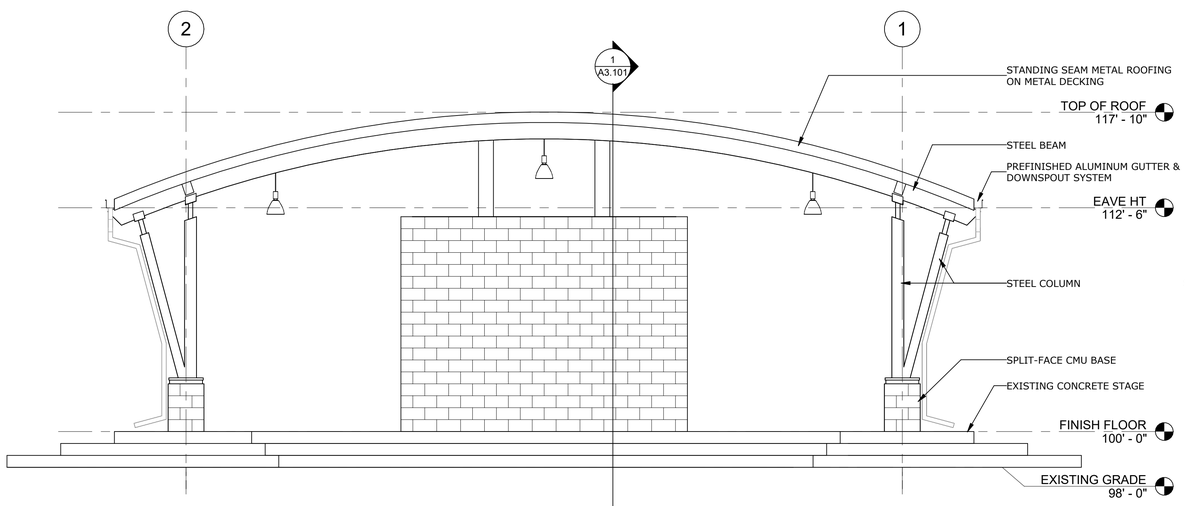
WEST ELEVATION | 1

1/4" = 1'-0"



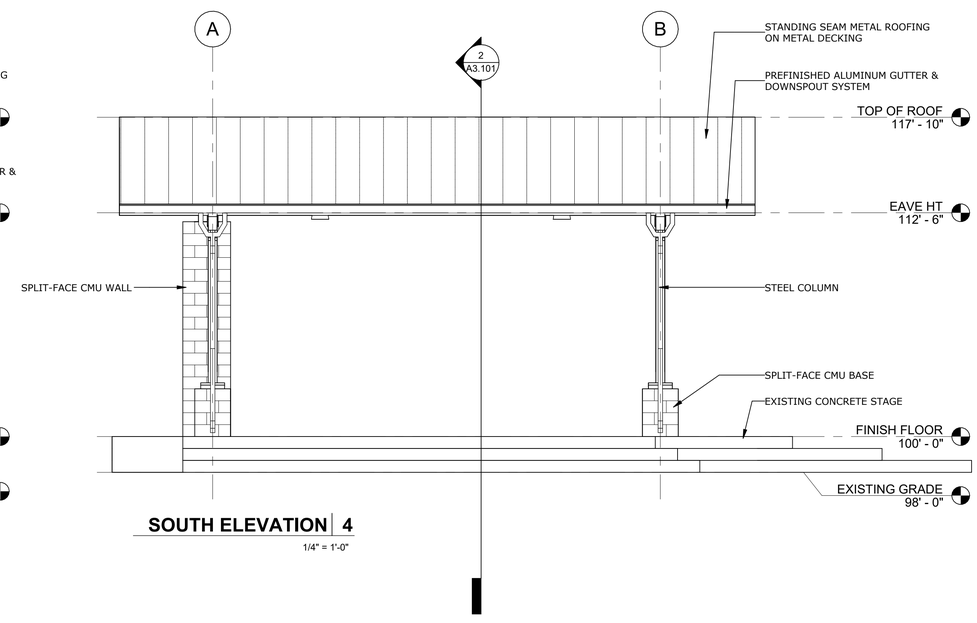
NORTH ELEVATION | 2

1/4" = 1'-0"



EAST ELEVATION | 3

1/4" = 1'-0"



SOUTH ELEVATION | 4

1/4" = 1'-0"

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	CG
CHECKED:	MH
APPROVED:	MH
REGISTRATION	MH

SHEET TITLE

AMPHITHEATER
ELEVATIONS

SHEET NUMBER

A2.101

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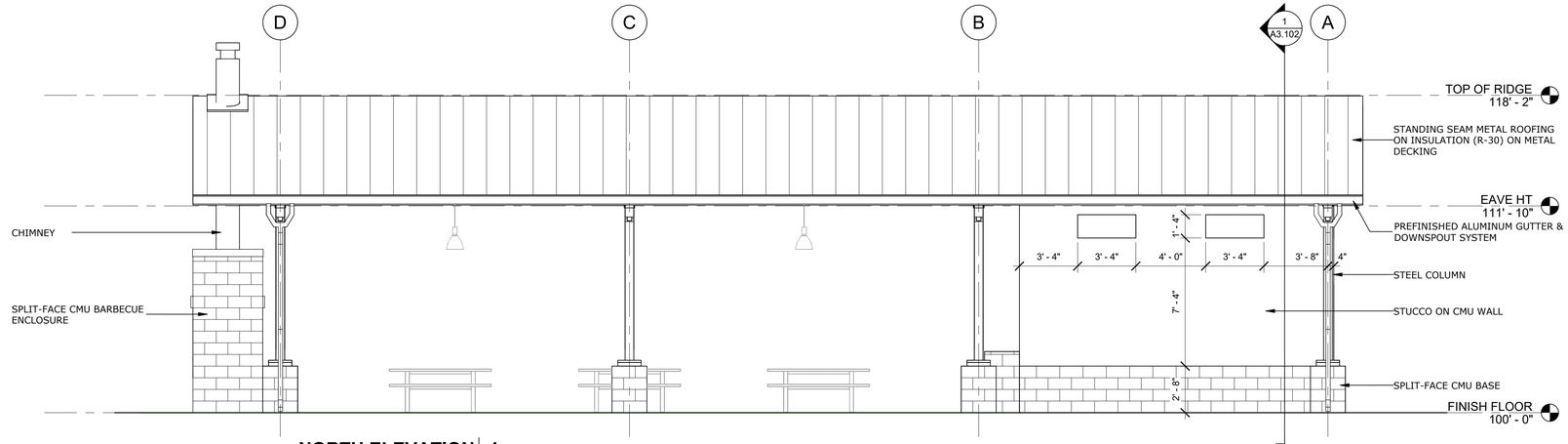
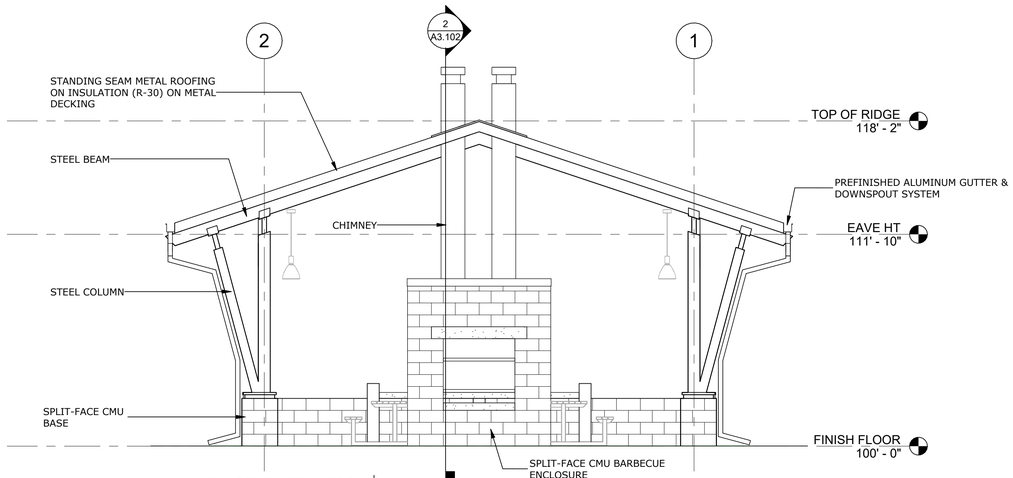


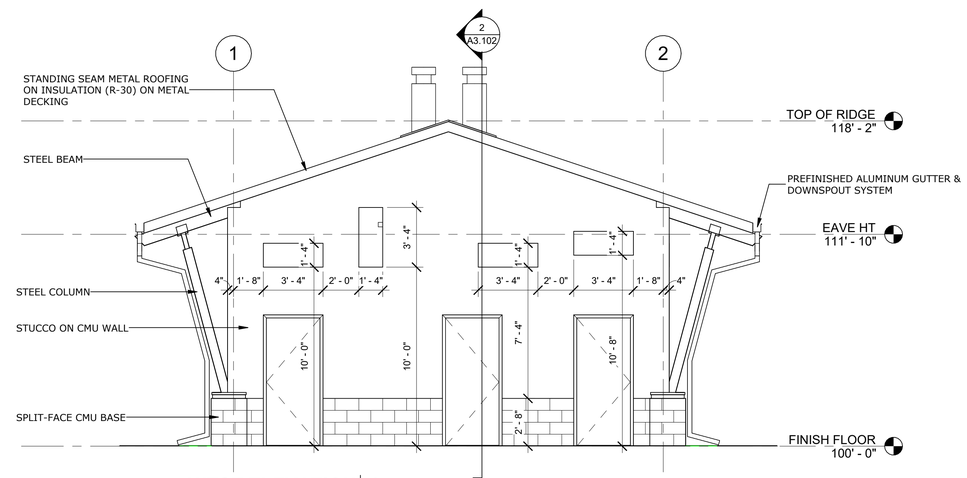
NORTH ELEVATION | 1

1/4" = 1'-0"



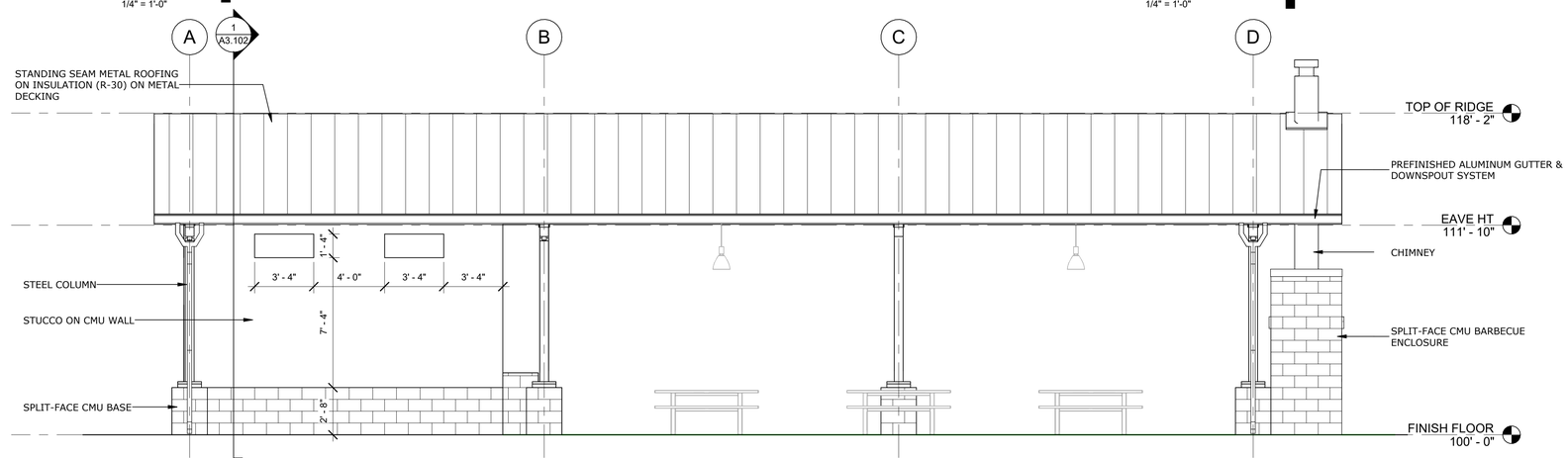
EAST ELEVATION | 2

1/4" = 1'-0"



WEST ELEVATION | 3

1/4" = 1'-0"



SOUTH ELEVATION | 4

1/4" = 1'-0"

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COMMUNITY SOLUTIONS GROUP

gai consultants

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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

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PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	CG
CHECKED:	MH
APPROVED:	MH
REGISTRATION	MH

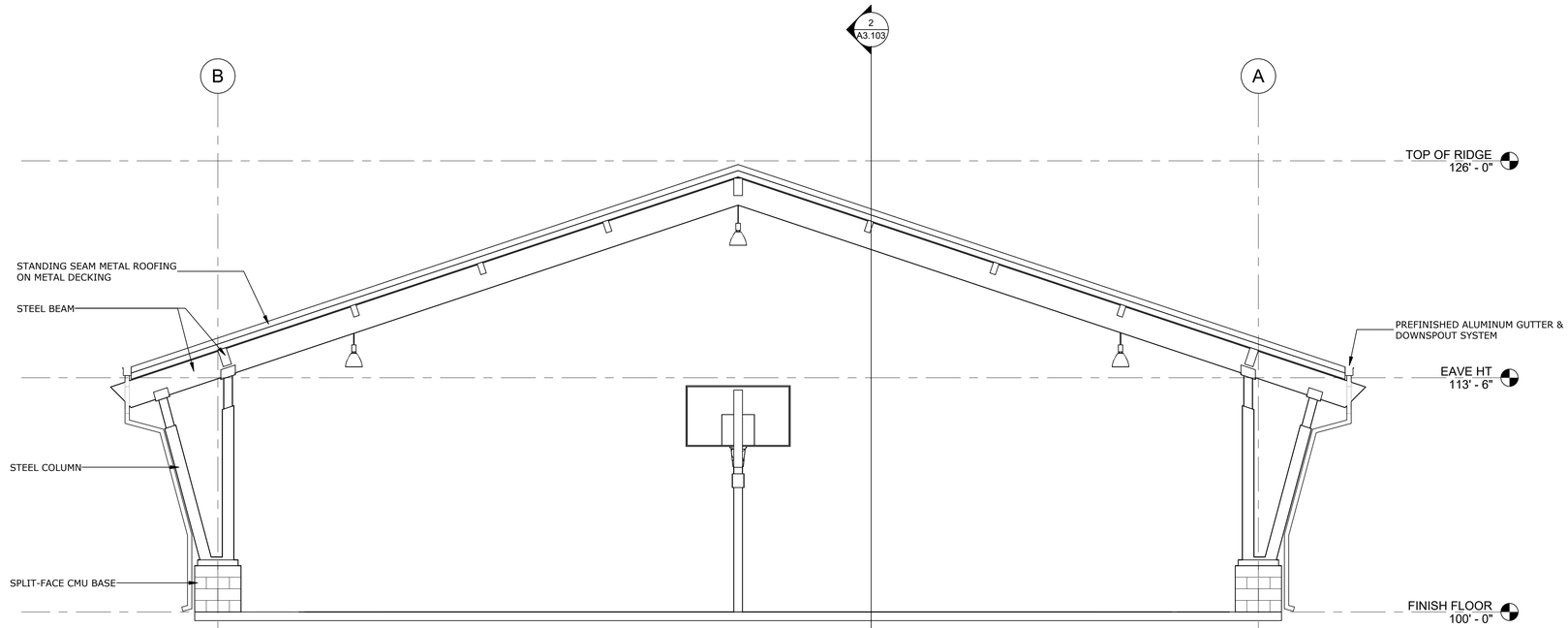
SHEET TITLE

PAVILION BUILDING ELEVATIONS

SHEET NUMBER

A2.102

A GAI CONSULTANTS, INC SERVICE GROUP



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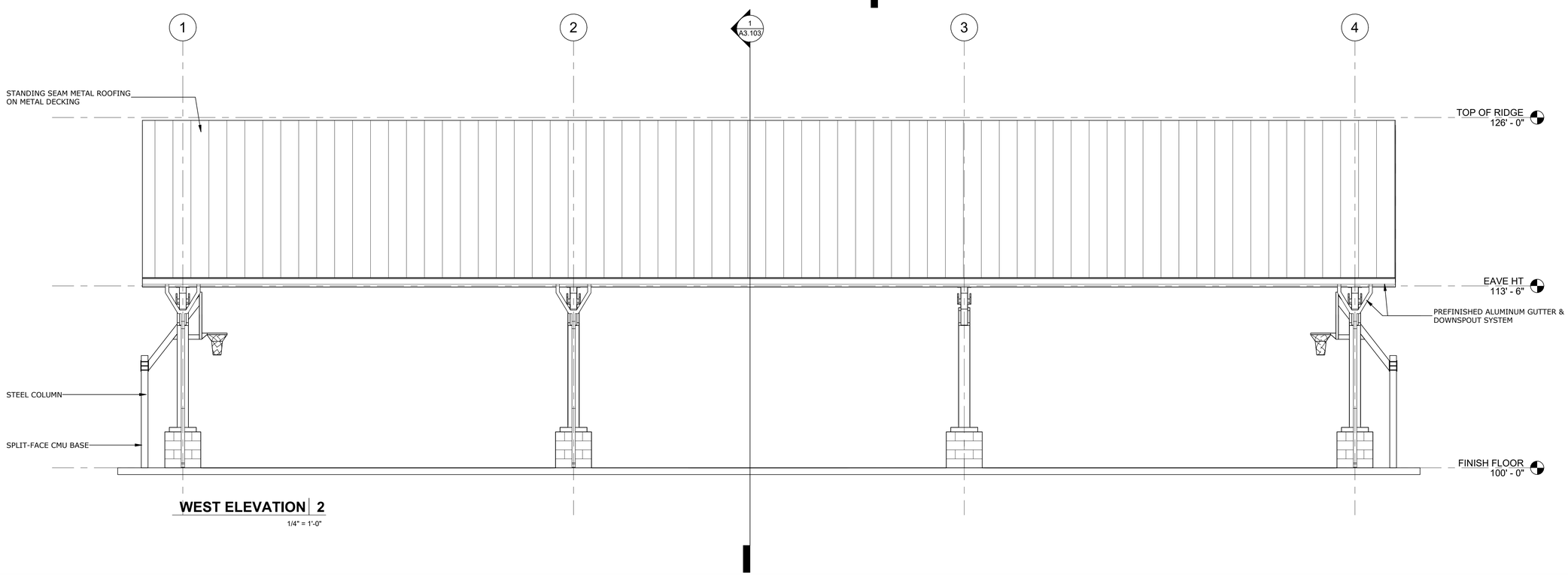

WEST ELEVATION | 2

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PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
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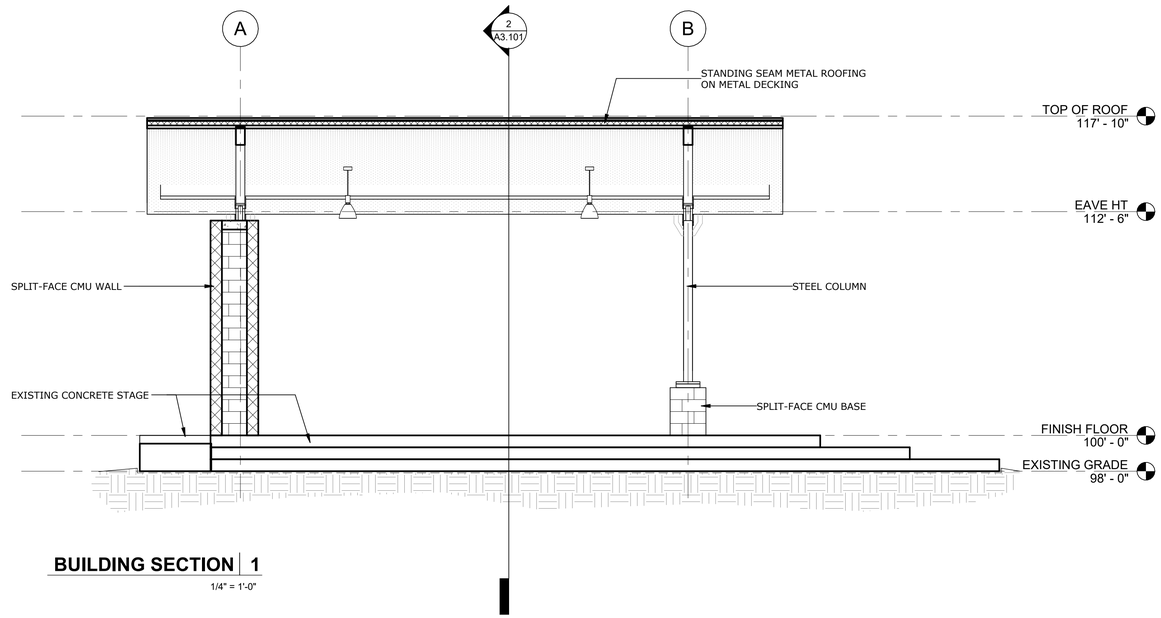
SHEET TITLE

BASKETBALL COURT
ELEVATIONS

SHEET NUMBER

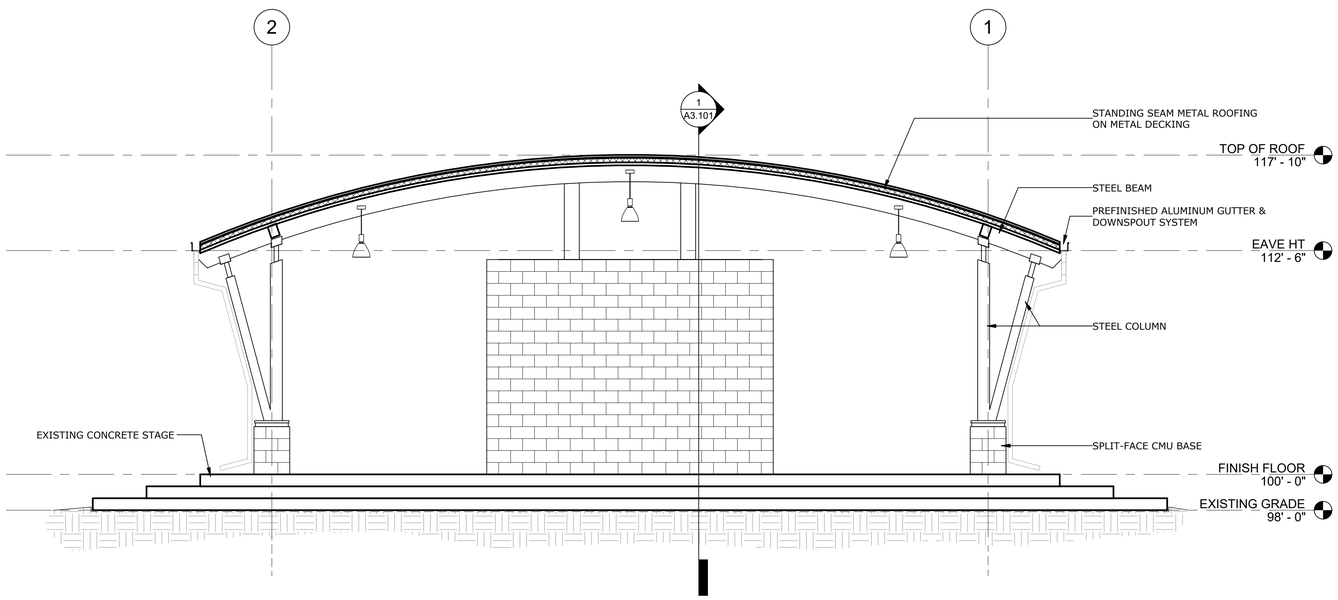
A2.103

A GAI CONSULTANTS, INC SERVICE GROUP



BUILDING SECTION | 1

1/4" = 1'-0"



BUILDING SECTION | 2

1/4" = 1'-0"

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

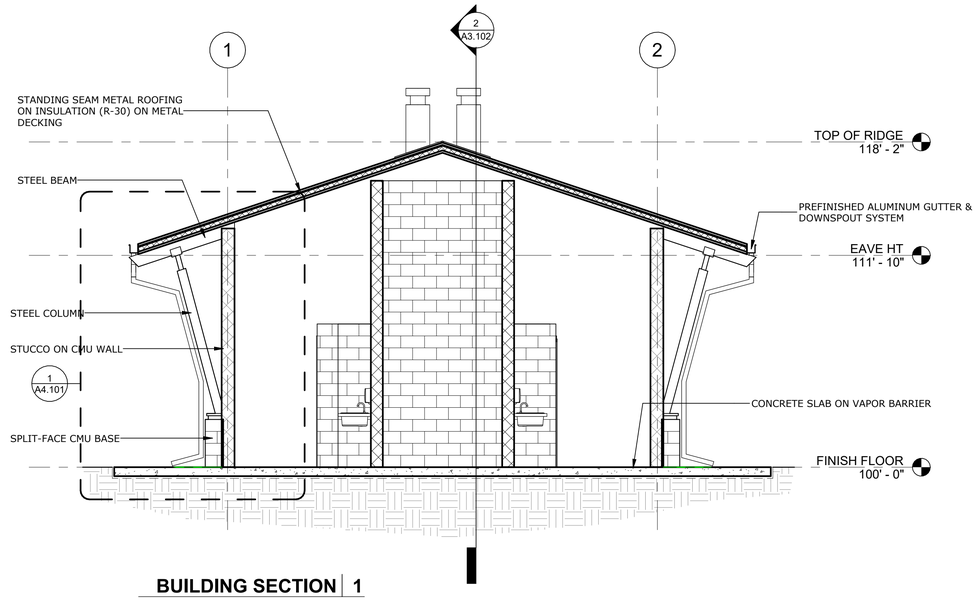
SHEET TITLE

AMPHITHEATER
BUILDING SECTION

SHEET NUMBER

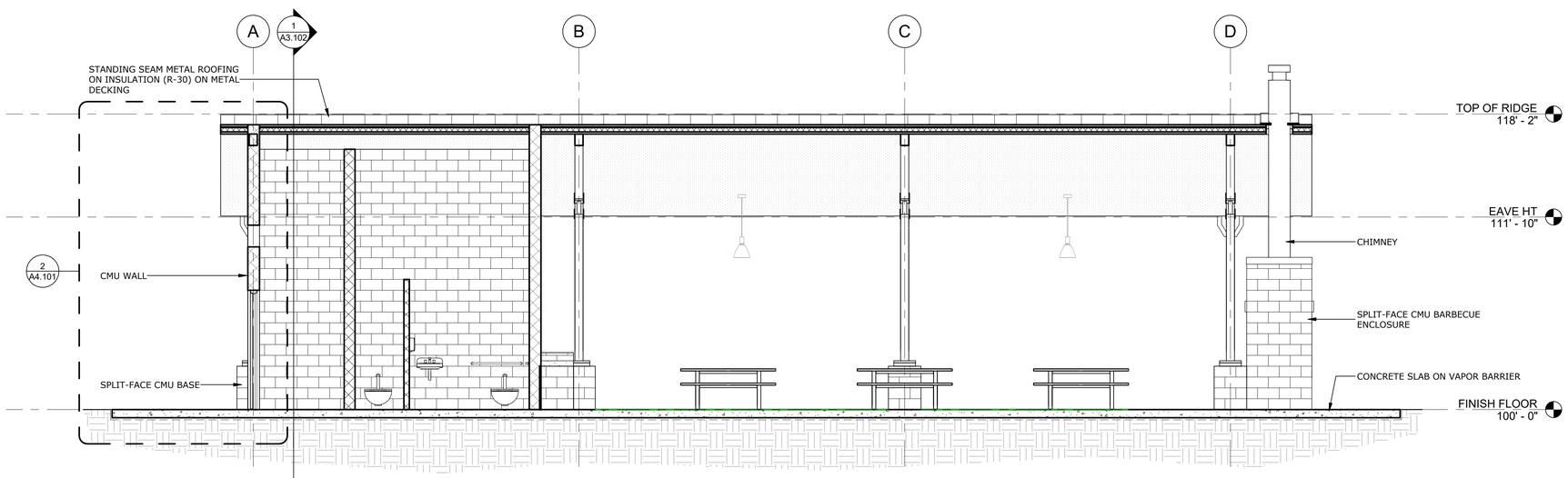
A3.101

A GAI CONSULTANTS, INC SERVICE GROUP



BUILDING SECTION | 1

1/4" = 1'-0"



BUILDING SECTION | 2

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PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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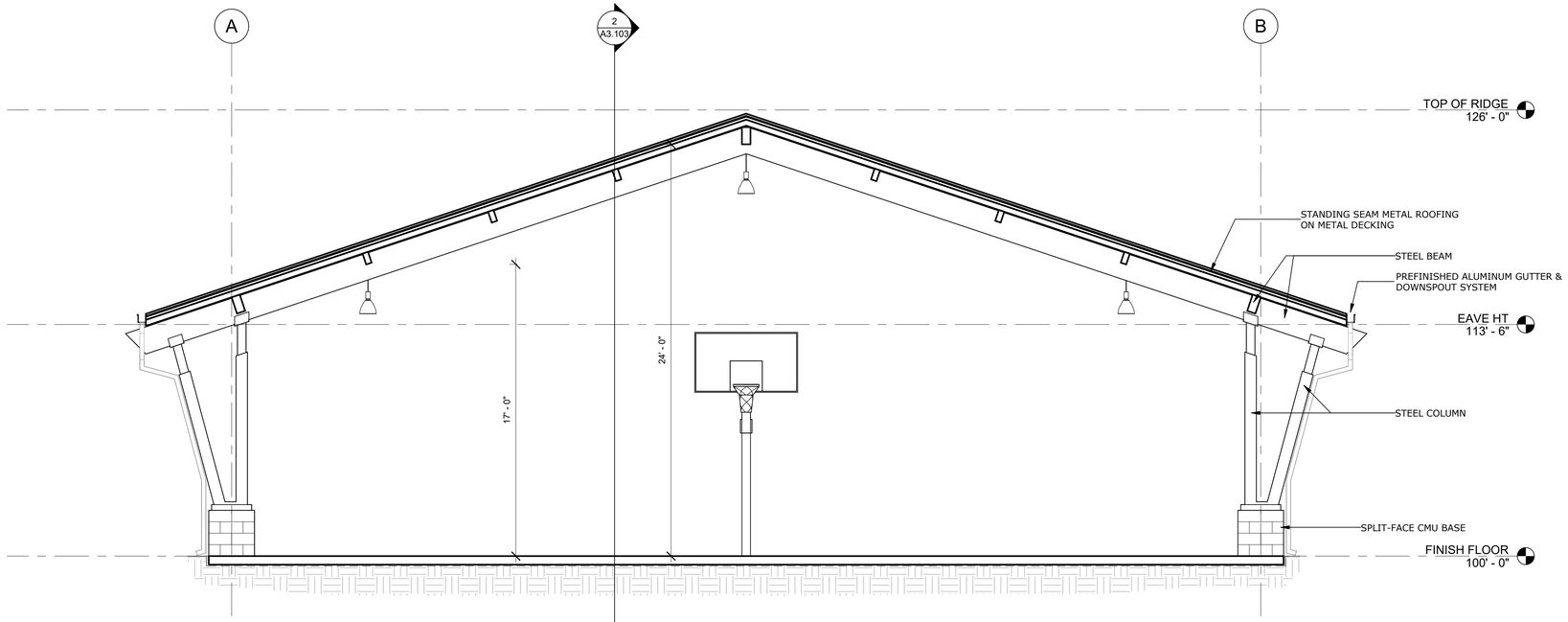
SHEET TITLE

PAVILION BUILDING
BUILDING SECTION

SHEET NUMBER

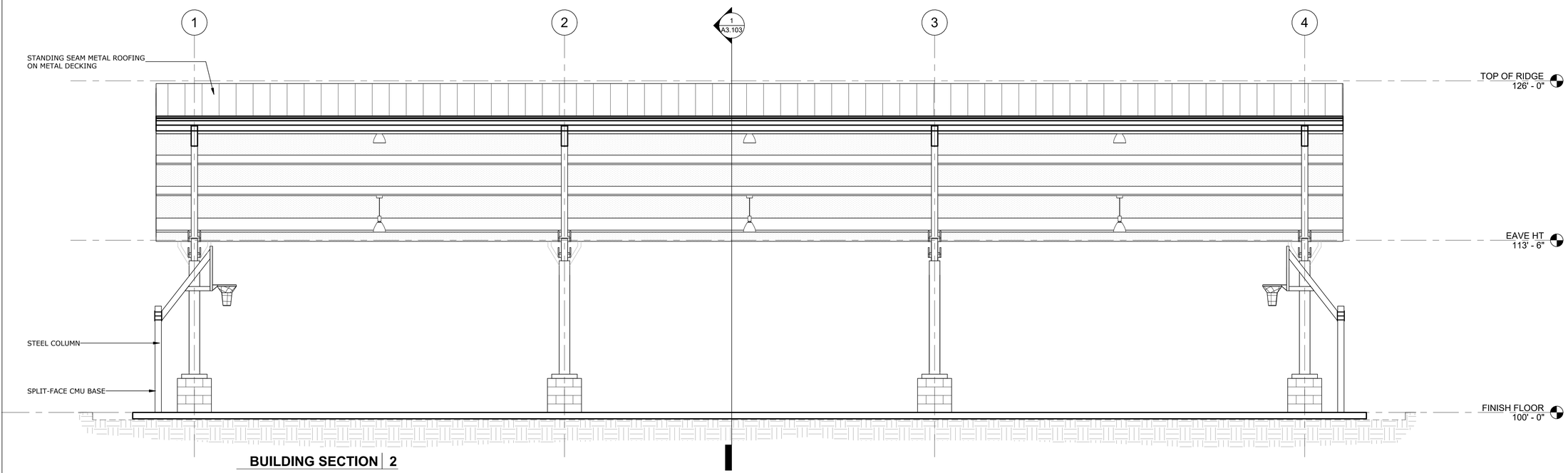
A3.102

A GAI CONSULTANTS, INC SERVICE GROUP



BUILDING SECTION | 1

1/4" = 1'-0"



BUILDING SECTION | 2

1/4" = 1'-0"

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PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
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SHEET TITLE

BASKETBALL COURT
BUILDING SECTION

SHEET NUMBER

A3.103

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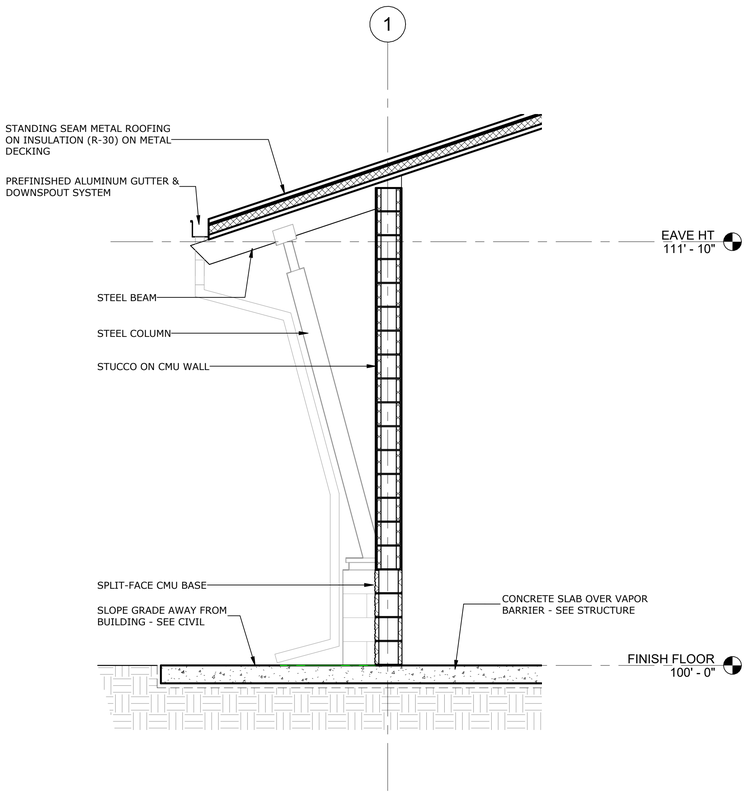
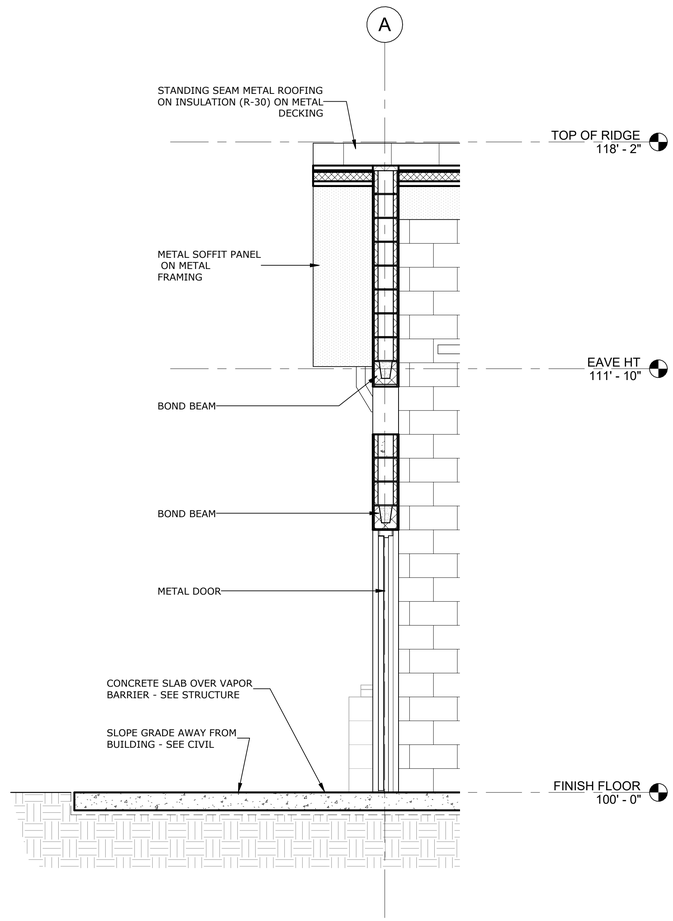


WALL SECTION | 1

1/2" = 1'-0"



WALL SECTION | 2

1/2" = 1'-0"

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017945

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REGISTRATION	Approver

SHEET TITLE

PAVILION BUILDING
WALL SECTIONS

SHEET NUMBER

A4.101

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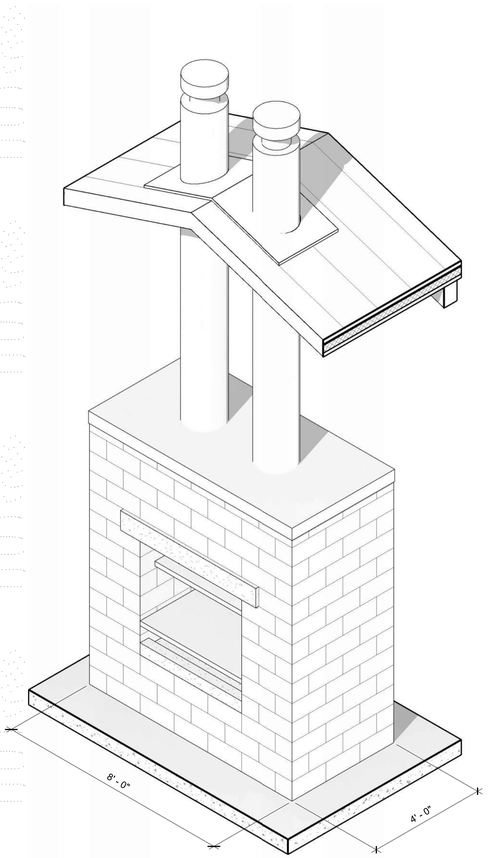
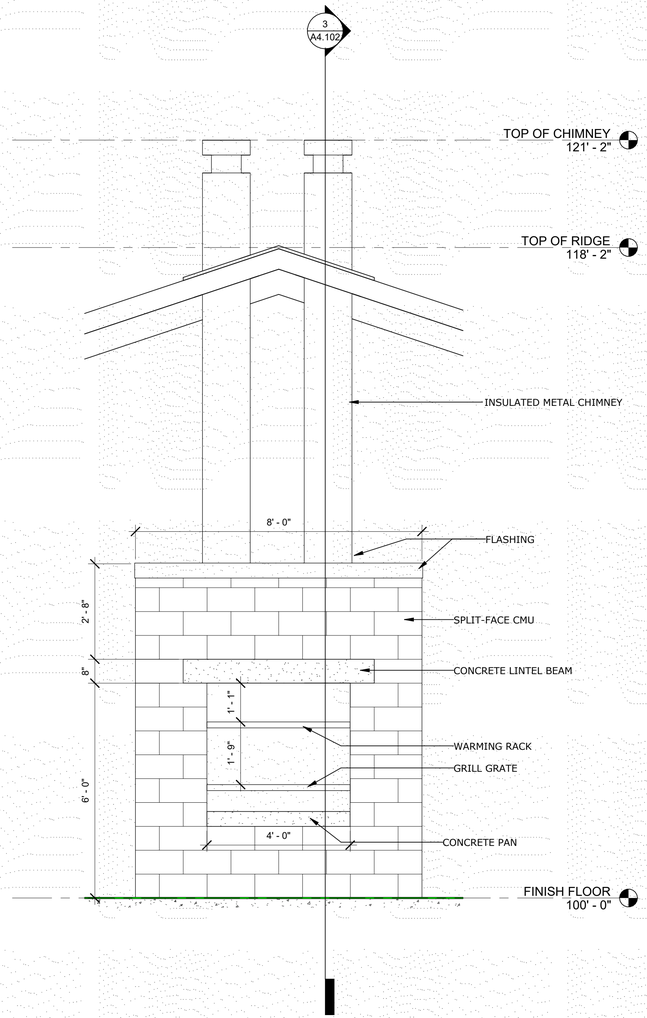
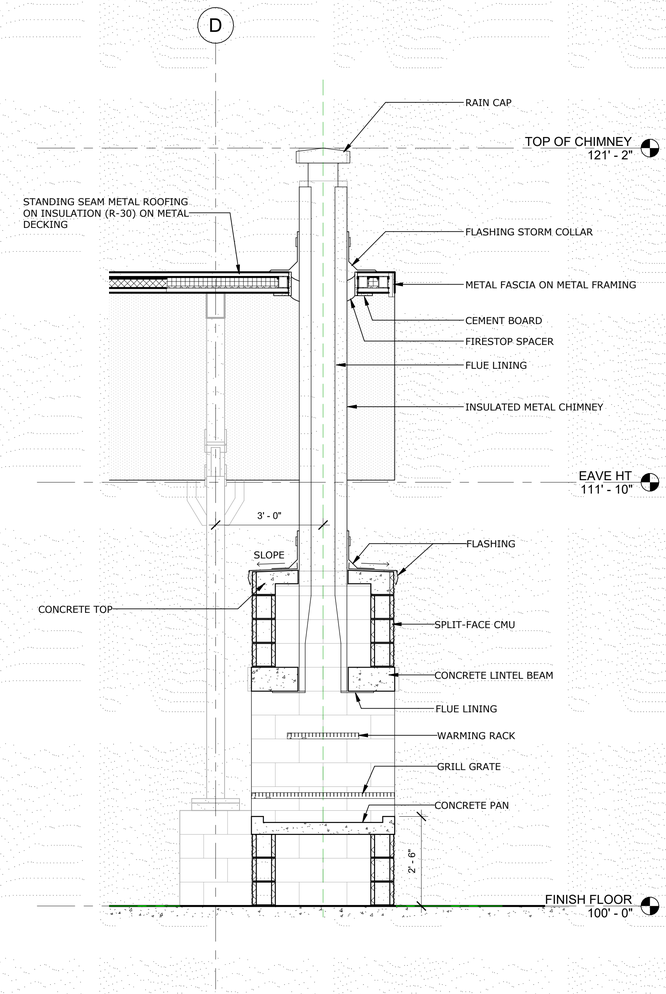


BARBECUE VIEW | 1



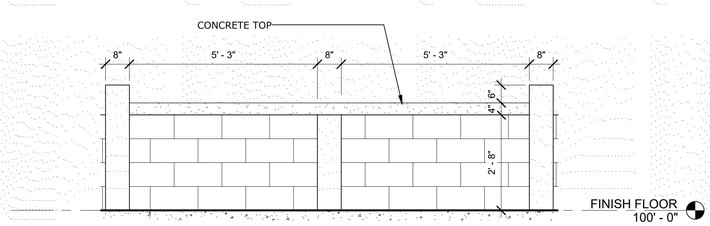
BARBECUE ELEVATON | 2

1/2" = 1'-0"



BARBECUE SECTION | 3

1/2" = 1'-0"



BUILT-IN COUNTER ELEVATION | 4

1/2" = 1'-0"

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PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

HOUSEMAN
ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
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REGISTRATION	Approver

SHEET TITLE

PAVILION BUILDING
BARBECUE & CHIMNEY
DETAILS

SHEET NUMBER

A4.102

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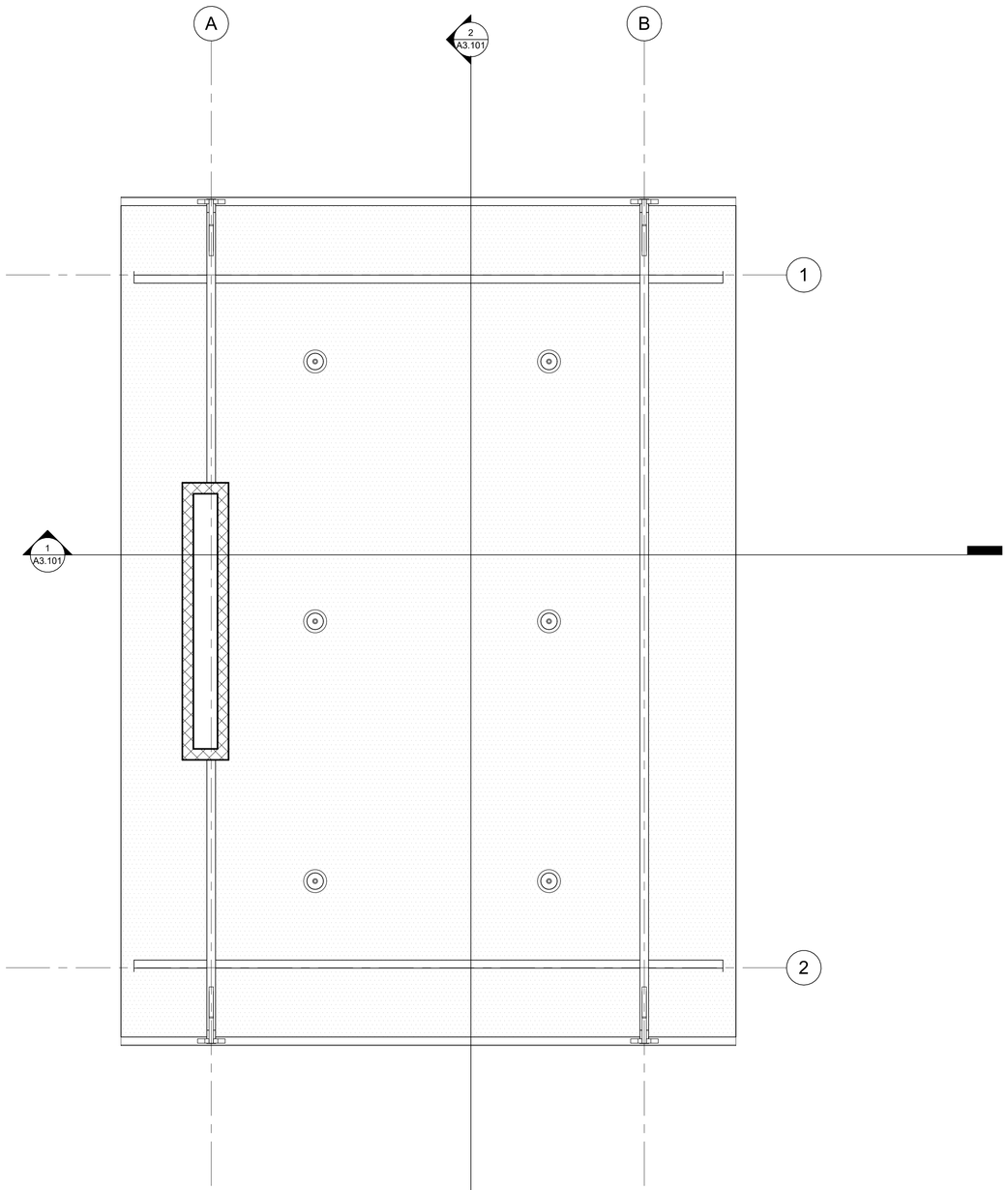

N

REFLECTED CEILING PLAN | 1

1/4" = 1'-0"

CEILING LEGEND	
	PENDANT LED LIGHT FIXTURE

CEILING FINISHES		
A		EXPOSED STEEL STRUCTURE - PAINTED

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

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CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

SHEET TITLE

AMPHITHEATER REFLECTED CEILING PLAN

SHEET NUMBER

A8.101

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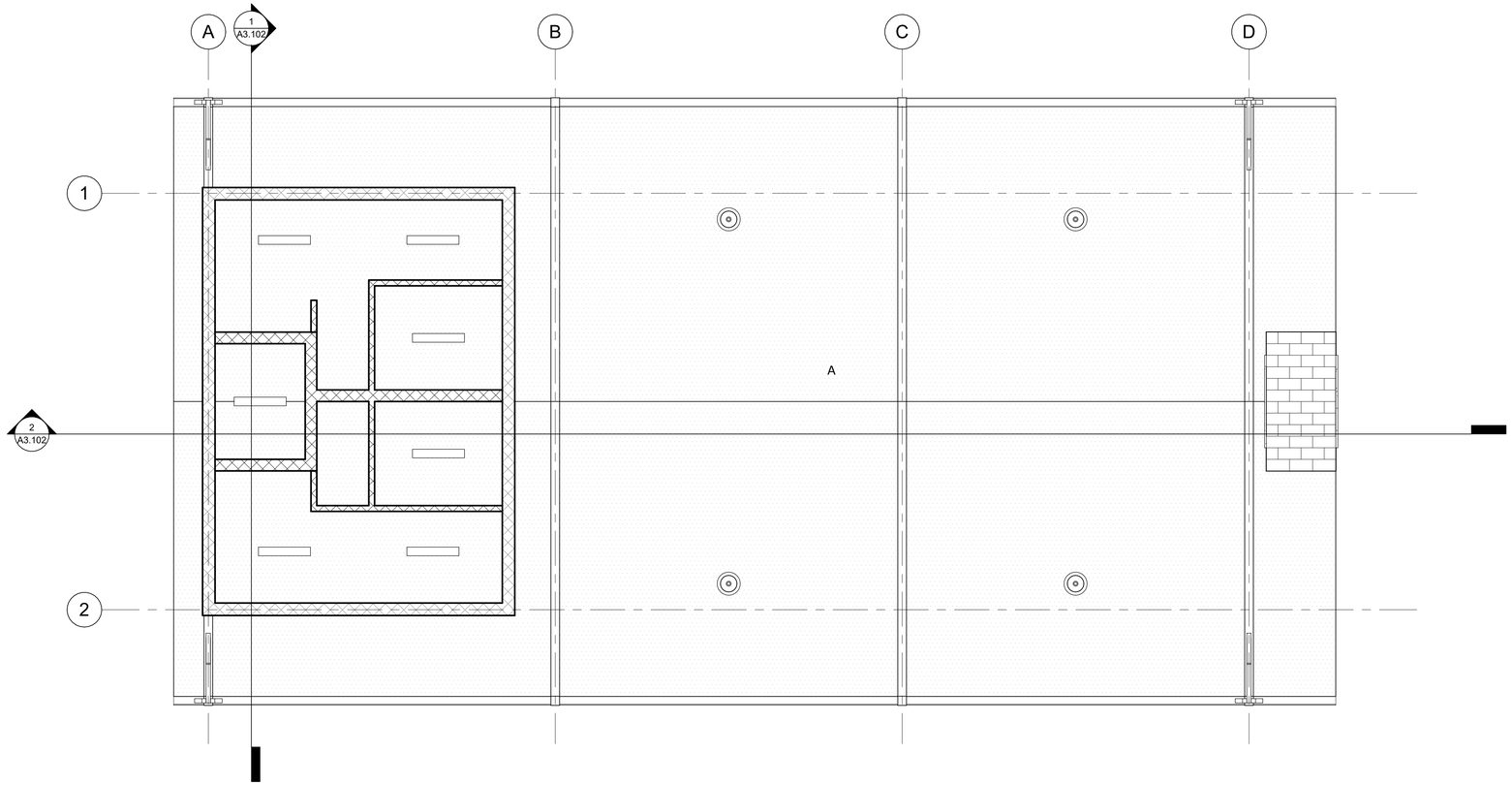

REFLECTED CEILING PLAN | 1

1/4" = 1'-0"

CEILING LEGEND

PENDANT LED LIGHT FIXTURE

SURFACE MOUNTED LED FIXTURE

CEILING FINISHES

A		EXPOSED STEEL STRUCTURE - PAINTED

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REGISTRATION	Approver

SHEET TITLE

PAVILION BUILDING
REFLECTED CEILING
PLAN

SHEET NUMBER

A8.102

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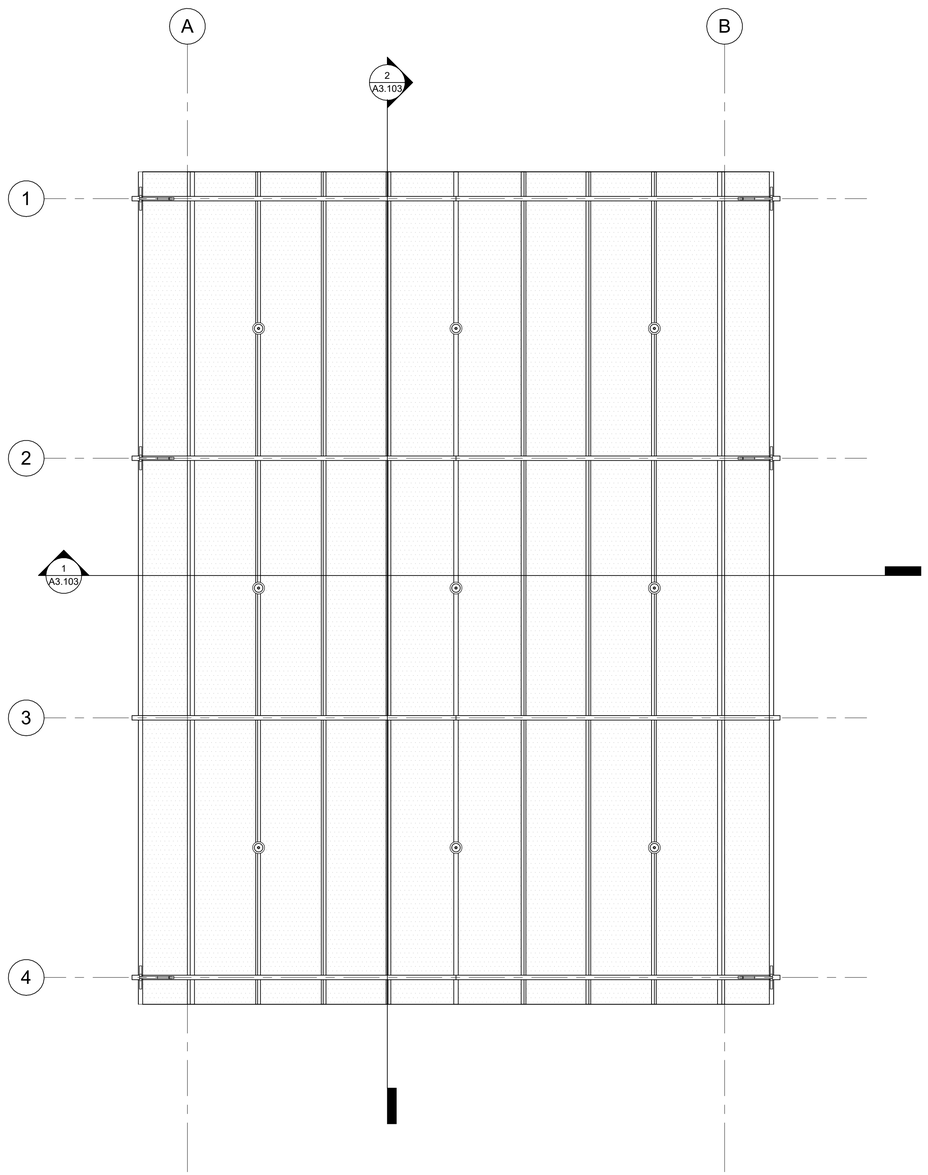

N

REFLECTED CEILING PLAN | 1

1/8" = 1'-0"

CEILING LEGEND		
		PENDANT LED LIGHT FIXTURE

CEILING FINISHES		
A		EXPOSED STEEL STRUCTURE - PAINTED

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

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321-972-8446 AR0017645

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REGISTRATION	Approver

SHEET TITLE

BASKETBALL COURT REFLECTED CEILING PLAN

SHEET NUMBER

A8.103

A GAI CONSULTANTS, INC SERVICE GROUP

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GENERAL MECHANICAL NOTES

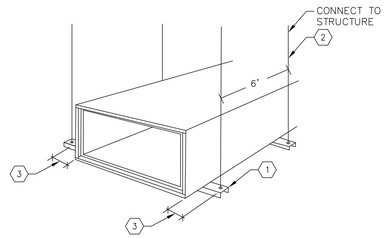
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, ALL DRAWINGS AND SPECIFICATIONS COMPLY WITH MINIMUM EXISTING CODES.
2. CONTRACTOR SHALL PROVIDE ALL WORK CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED FOR ON THE PLANS. ALL WORK SHALL BE IN ACCORDANCE WITH BASE BUILDING PLANS AND SPECIFICATIONS.
3. CONTRACTOR TO CONSULT BUILDING OWNER FOR BUILDING STANDARDS AND CONTROL SEQUENCES.
4. CONTRACTOR SHALL CONFIRM THE EXISTENCE OF FIRE DAMPERS AS REQUIRED BY CODE IN ANY DUCT PENETRATING EXISTING FIRE RATED PARTITIONS.
5. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND EXISTING CONDITIONS. THE INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL AND PLUMBING SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES. FIXED WORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY RELOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS AND SMALL WATER LINES, ETC.
7. CONTRACTOR SHALL REVIEW STRUCTURE/STRUCTURAL DRAWINGS BEFORE INSTALLATION TO AVOID ANY BEAM CONFLICTS AND COORDINATE PIPING AND HVAC DUCTWORK ACCORDINGLY.
8. CONTRACTOR SHALL PROVIDE A COPY CERTIFIED TEST AND BALANCE REPORT AT FINAL INSPECTION. BALANCE AIR DISTRIBUTION SYSTEMS TO QUANTITIES AS INDICATED ON DRAWINGS. THIS INCLUDES ALL OF THE AIR DISTRIBUTION AND VAV BOXES AS REQUIRED.
9. ALL SUPPLY TAKE-OFFS ARE CONNECTED TO HARD TRUNK DUCT WITH SPIN-IN FITTING OR TAB COLLAR (WITH MANUAL DAMPER) OF SIZE EQUAL TO DIFFUSER INLET AND DUCT CONNECTION. FLEXIBLE DUCT SHALL BE STRAIGHT WITH NO SAGS OR EXCESS DUCT. TOTAL TURNS SHALL NOT EXCEED 135 DEGREES. FLEX CONNECTIONS ARE NOT TO EXCEED 8 FEET IN LENGTH. PROVIDE HARD DUCT FOR OVER 8 FEET OR AS SPECIFICALLY CALLED FOR ON THE PLANS. THERMA-FLEX OR EQUAL INSULATED FLEX DUCT CONFORMING TO NFPA-90A AND UL 181 FOR "AIR DUCT CONNECTOR."
10. MATCH DIFFUSER MOUNTING FRAME WITH CEILING TYPE.
11. ALL DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
12. ALL DUCTWORK SHALL BE 1.5"THK FIBERGLASS, EXCLUDING FLEX DUCT CONNECTIONS. ALL FLEXIBLE DUCT SHALL BE ATCO BRAND (CLASS 1) WITH AN INSULATION VALUE OF R6. ALL JOINTS MUST BE MECHANICALLY FASTENED AND SEALED TO 100% CLOSURE. METHODS FOR ATTACHMENT AND SEALING SHALL BE APPROVED METHOD AS STATED IN FBCM TABLE 603 AND SECTIONS 603.1 THRU 603.17. ALL DUCTWORK CONSTRUCTION SHALL MEET SECTION C403 OF THE FBC ENERGY CONSERVATION.
13. ALL INTAKE OPENINGS SHALL BE SIZED AND PROTECTED PER FBCM 401.5. ALL OPENINGS SHALL BE GREATER THAN ¼", BUT LESS THAN 1". OPENINGS SHALL CONFORM WITH AMCA 550 FOR HURRICANE PRONE REGIONS.
14. RE-ADJUST THE THROW OF ALL AIR DISTRIBUTION DEVICES AFFECTED BY THE ADDITION OR REMOVAL OF PARTITIONS.
15. ALL CEILING MOUNTED DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
16. IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
17. COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING FIXTURES.
18. TURNING VANES SHALL BE PROVIDED IN ALL SUPPLY DUCT RECTANGULAR ELBOWS WITH ANGLES BETWEEN 15 DEGREES AND LESS THAN 90 DEGREES PER SMACNA.
19. DUCTWORK SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
20. ALL WALL MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" A.F.F. ALL THERMOSTATS NEED TO BE RECALIBRATED BY A MECHANICAL CONTRACTOR IF THEY ARE RELOCATED. THERMOSTATS SHALL BE FASTENED BY PLASTIC SHIELD AND SCREWS.
21. UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE. COORDINATE DUCT ELEVATION WITH WATER PIPING, SANITARY DRAINS AND MAJOR ELECTRICAL CONDUITS.
22. PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO INSTALL MECHANICAL EQUIPMENT AND MATERIALS.
23. ALL DASHED LINED EQUIPMENT AND DUCTWORK ARE EXISTING. ALL SOLID LINED EQUIPMENT AND DUCTWORK ARE NEW UNDER TENANT WORK EXCEPT FOR DIFFUSERS.
24. INSTALLATION OF MECHANICAL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS AND CLEARANCE REQUIREMENTS.
25. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS, AND FIELD INVESTIGATION. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS.
26. ALL MECHANICAL WORK SHALL LEAVE BUILDING/STRUCTURE IN A SAFE STRUCTURAL CONDITION IN ACCORDANCE WITH FBC CHAPTER 16 AS TO COMPLY WITH FBCM 302.1.
27. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION AND CHAPTER 633, FLORIDA STATUTES. FBC 110.8.4.4 2017.
28. ALL CONDENSATE LINES SHALL BE SCHEDULE 40 PVC AND INSULATED WITH 1/2"THICK ARMAFLEX INSULATION. CONDENSATE LINES SHALL HAVE MIN 1/8" PER FT SLOPE AND HAVE P-TRAP AT AIR HANDLING UNIT.
29. CONTRACTOR SHALL PROVIDE AN ACCESS PANEL OR CONCEALED DAMPER REGULATOR FOR ALL MANUAL VOLUME DAMPERS/SPIN-IN DAMPERS ABOVE HARD CEILINGS/INACCESSIBLE SPACES.

FAN SCHEDULE

REMARKS:

MARK EF	SERVICE	LOCATION	CFM	EXT. SP "WG	MOTOR W	MOTOR V/ϕ	MAX RPM	DRIVE TYPE	WEIGHT	INTERLOCK	BASIS OF DESIGN	ACCESSORIES
1	RESTROOM	CEILING	200	0.25	16.9	115/1	1366	DIRECT	20 lbs	LIGHTS	GREENHECK G-070-VG OR APPROVED EQUAL	1 2 3 4

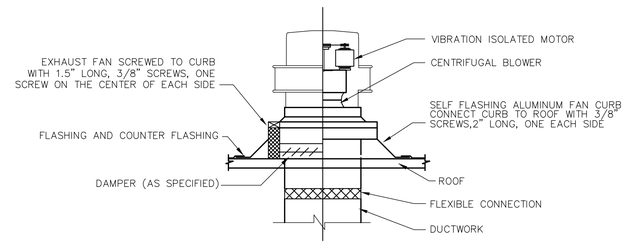
ACCESSORIES:
1. SPEED CONTROLLER
2. MOTOR WITH THERMAL OVERLOAD
3. BACKDRAFT DAMPER
4. CONTROLLED BY TIME CLOCK



1. PROVIDE MIN. 24 GAUGE CHANNEL 3"X1-1/2".
2. PROVIDE 12 GAUGE HANGER WIRE AND SPACE NO GREATER THAN 6 FEET.
3. 3" MAX DISTANCE BETWEEN DUCT AND HANGER WIRE.

DUCT SUPPORT DETAIL

NTS



SECUREMENT METHOD DESIGNED TO RESIST 145 MPH WIND LOADS.

EXHAUST FAN DETAIL

NTS

FBC - MECHANICAL 403.3 VENTILATION COMPLIANCE

RESTROOMS
4 FIXTURES X 50 CFM/FIXTURE= 200 CFM OF EXHAUST REQUIRED
200 CFM OF EXHAUST PROVIDED BY EF-1.

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SUITE 700
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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

C.O.A. #28759
WILSON IRGENTI ENGINEERING
200 E. ROBINSON STREET, STE. 970
ORLANDO, FL 32801
WORKWITHWIG.COM
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931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
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CHECKED:	xx
APPROVED:	xx

REGISTRATION

SHEET TITLE

CAULEY LOTT PARK
MECHANICAL
NOTES AND
DETAILS

SHEET NUMBER

M1.001

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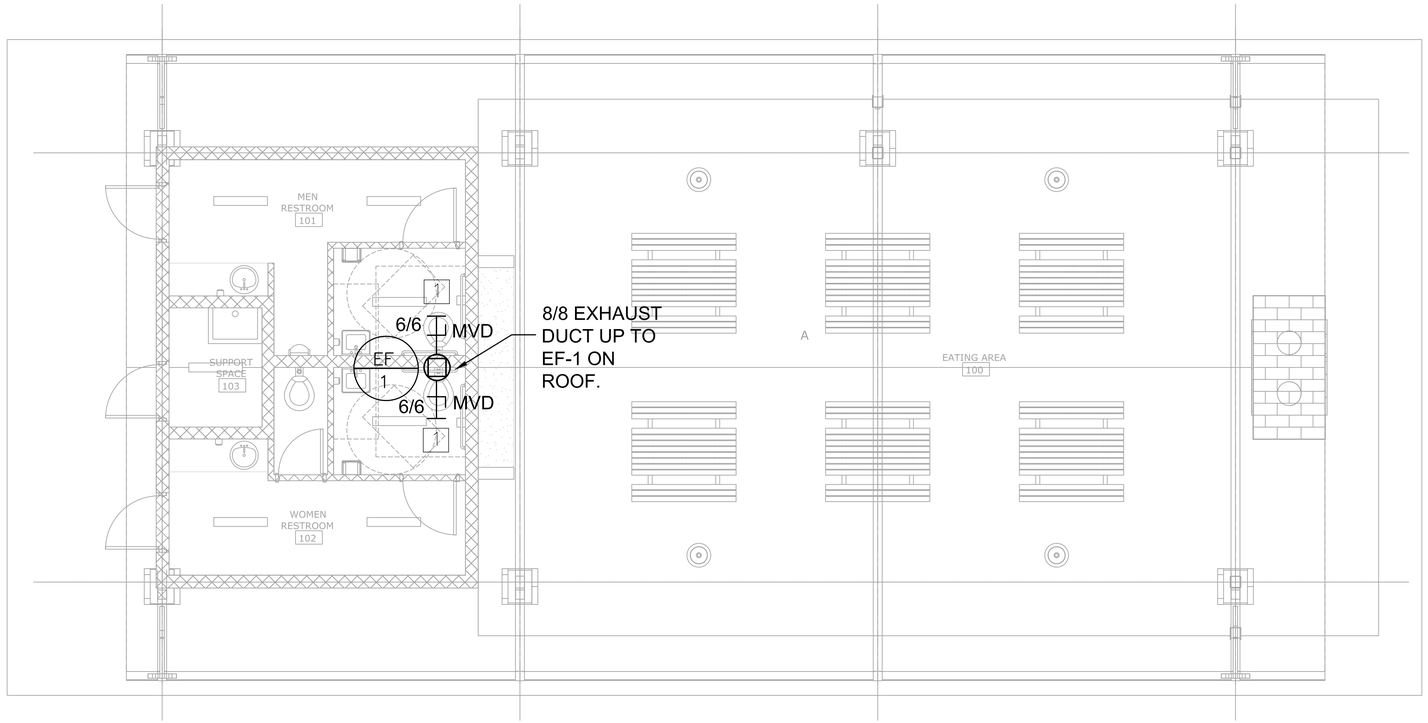
MECHANICAL LEGEND

MVD	MANUAL VOLUME DAMPER
EXIST.	EXISTING
RA	RETURN AIR
OA	OUTSIDE AIR
CS & CR	CONDENSER WATER SUPPLY AND RETURN
AFF	ABOVE FINISHED FLOOR
CHWS & CHWR	CHILLED WATER SUPPLY AND RETURN
	DUCT REDUCTION IN DIRECTION OF FLOW
SD	DUCT MOUNTED SMOKE DETECTOR
	MOTORIZED DAMPER
	RETURN (OR EXHAUST) GRILLE
	SUPPLY DIFFUSER
ETR	EXISTING TO REMAIN
RE	RELOCATE EXISTING
ER	EXISTING RELOCATED
	FIRE DAMPER
	EXISTING FIRE DAMPER
	NEW HARD DUCT
	EXISTING HARD DUCT
	NEW FLEXIBLE DUCT
	EXISTING FLEXIBLE DUCT
T	THERMOSTAT
	NEW DUCT CONNECTION

SPECIAL HVAC NOTES:

1 CONTRACTOR SHALL INSTALL AN EGGCRATE GRILLE TO THE END OF THE EXHAUST DUCT.



PAVILION MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

N

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SHEET TITLE

CAULEY LOTT PARK
PAVILION
MECHANICAL
PLAN

SHEET NUMBER

M1.102

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PLUMBING SCHEDULE - PLUMBING FIXTURES

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
P 1	WATER CLOSET					4"	2"	1"	0"	
P 2	WATER CLOSET - ADA					4"	2"	1"	0"	
P 3	URINAL - ADA					2"	1 1/2"	3/4"	0"	
P 4	LAVATORY					1 1/2"	1 1/2"	1/2"	1/2"	
P 5	LAVATORY - ADA					1 1/2"	1 1/2"	1/2"	1/2"	
P 6	MOP SINK					3"	2"	1/2"	1/2"	

PLUMBING SCHEDULE - WATER HEATER

			BASIS OF DESIGN		TANK CAPACITY (GALLONS)	INPUT (MBH)	ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	AREA SERVED	MFR	MODEL			VOLTS	PH	FLA	MCA	KW	COMMENTS
PE 1	ELECTRIC WATER HEATER	PAVILION	LOCHINVAR	LSJ30LL	30	0	208 V	1	21.6 A	27 A	4.5 kW	

PLUMBING SCHEDULE - PUMP

			BASIS OF DESIGN		FLOW RATE (GPM)	HEAD (FT H20)	RPM	ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	AREA SERVED	MFR	MODEL				VOLTS	PH	FLA	KW	HP	COMMENTS
PP 2	CIRCULATION PUMP	PAVILION	ARMSTRONG	220SSU	3	1	0	120 V	1	0.3 A		0 hp	

CODE COMPLIANCE:

1. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION AND CHAPTER 633, FLORIDA STATUTES. FBC 110.8.4.4 2017.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, ALL DRAWINGS AND SPECIFICATIONS COMPLY WITH MINIMUM EXISTING CODES.
   - 2017 FLORIDA BUILDING CODE SIXTH EDITION
   - 2017 FLORIDA PLUMBING CODE SIXTH EDITION
   - 2017 FLORIDA ENERGY CONSERVATION CODE SIXTH EDITION

DRAIN AND CLEANOUT SCHEDULE

MARK	OUTLET SIZE	STRAINER SIZE INSTALL TYPE	MANUFACTURER'S NUMBERS			NOTES
			JOSAM	WADE	ZURN	
FCO	SEE PLANS	FLOOR	58363	CO-200-RX	Z-1400	BRONZE PLU. NIKALOY TOP.
WCO	SEE PLANS	WALL	58910/58600	CO-380	Z-1446	BRONZE PLUG, STAINLESS STEEL WALL COVER.
ECO	SEE PLANS	EXTERIOR	58680	EQUAL	Z-1474	MOUNT IN 12"X12"X4" CONC. PAD IF LOCATED IN UNPAVED AREA.
TP	PRECISION PLUMBING "OREGON #1" TRAP PRIMER WOTH 1/2" CW ROUTED BELOW SLAB TO FLOOR DRAIN/SINK.					
HD	HUB DRAIN. PROVIDE 2" P-TRAP, AND TRAP PRIMER IF NOT SERVING AN ICE MAKER. INSULATE FIRST FIVE FEET AFTER AND INCLUDING P-TRP WHEN RECEIVING ICE MAKER DRAINS IN MULTI-STORY BUILDINGS. ADD TRAP PRIMER.					
ANY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN RECEIVING CONDENSATE WASTE FROM AN ICE MACHINE OR ICE BIN SHALL BE INSULATED WITH 1/2" FIBERGLASS INSULATIONCOVERING THE FIRST FIVE FEET AFTER AND INCLUDING P-TRAP WHEN P-TRAP AND PIPING ARE LOCATED IN THE CEILING SPACE OF A LOWER FLOOR.						

SHEET LIST - PLUMBING

Sheet Number	Sheet Name	Revision
P1.001	PLUMBING NOTES AND DETAILS	
P1.100	PLUMBING SITE PLAN	
P1.102	PAVILION PLUMBING PLAN	

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PROJECT

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REGISTRATION	Approver

SHEET TITLE

PLUMBING NOTES AND DETAILS

SHEET NUMBER

P1.001

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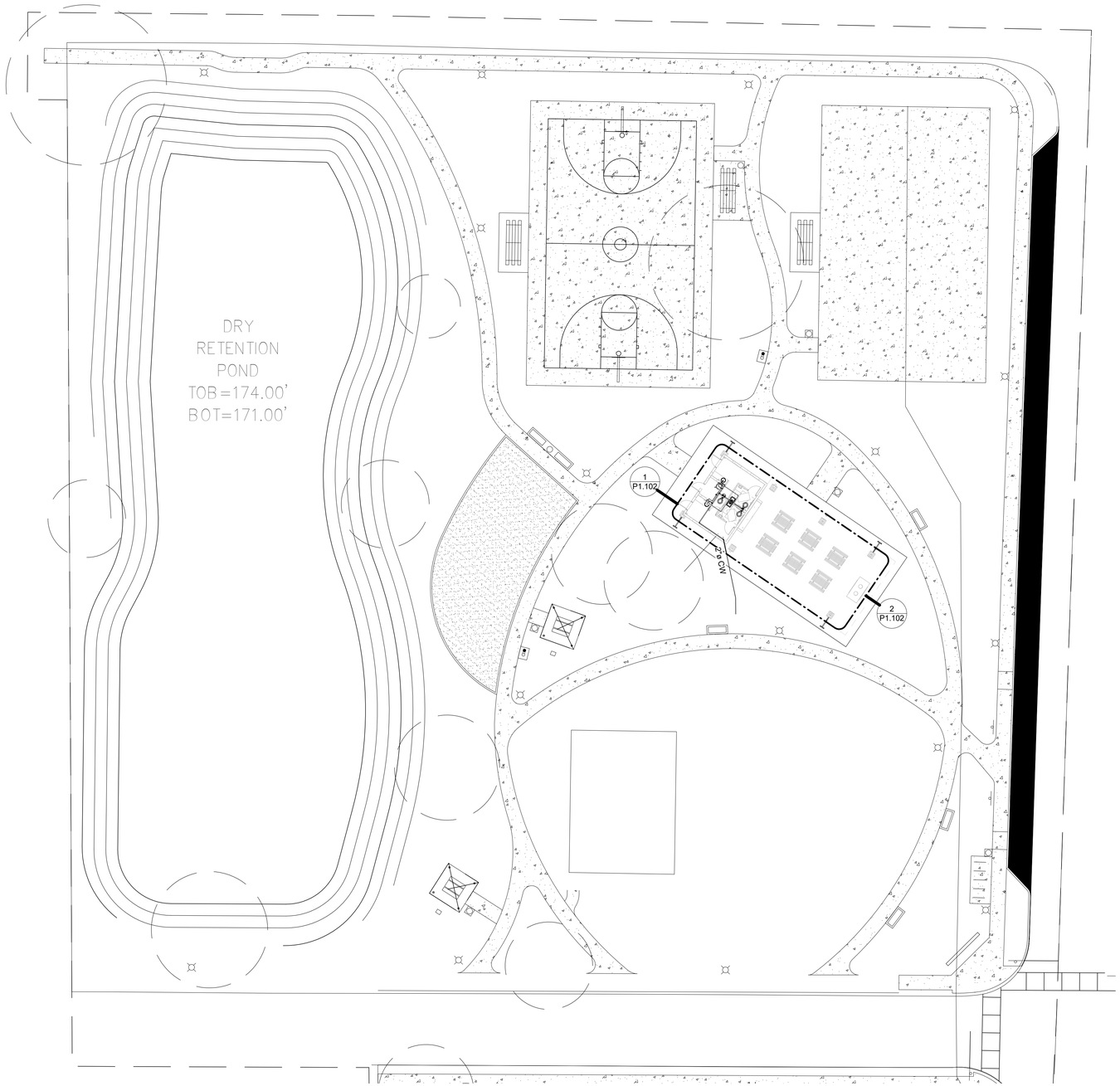

1 P1.100 PLUMBING SITE PLAN
1" = 20'-0"

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PLUMBING SITE PLAN

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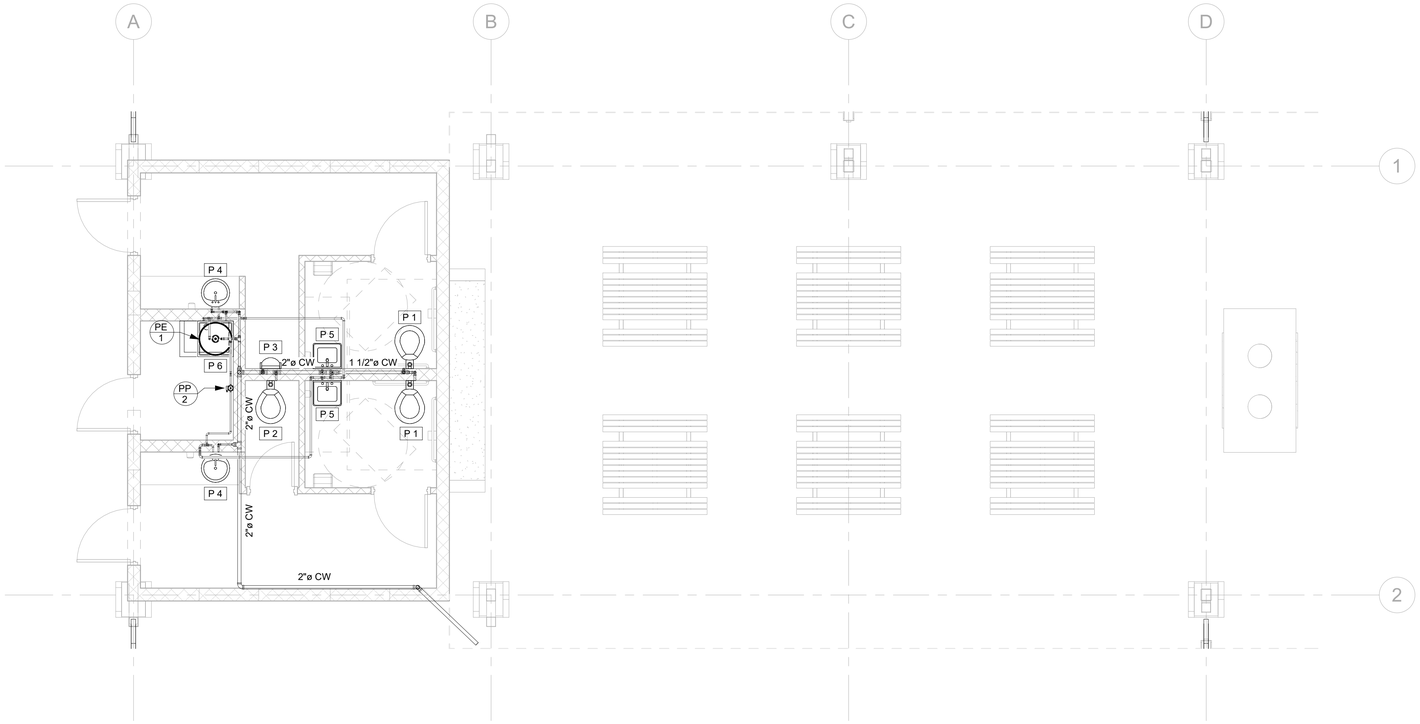
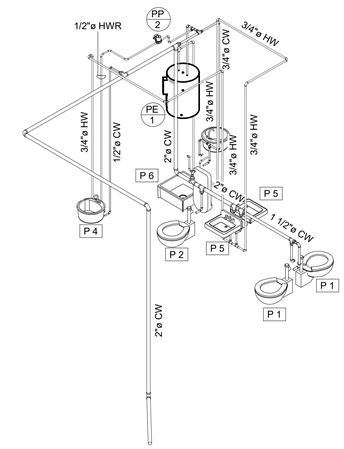
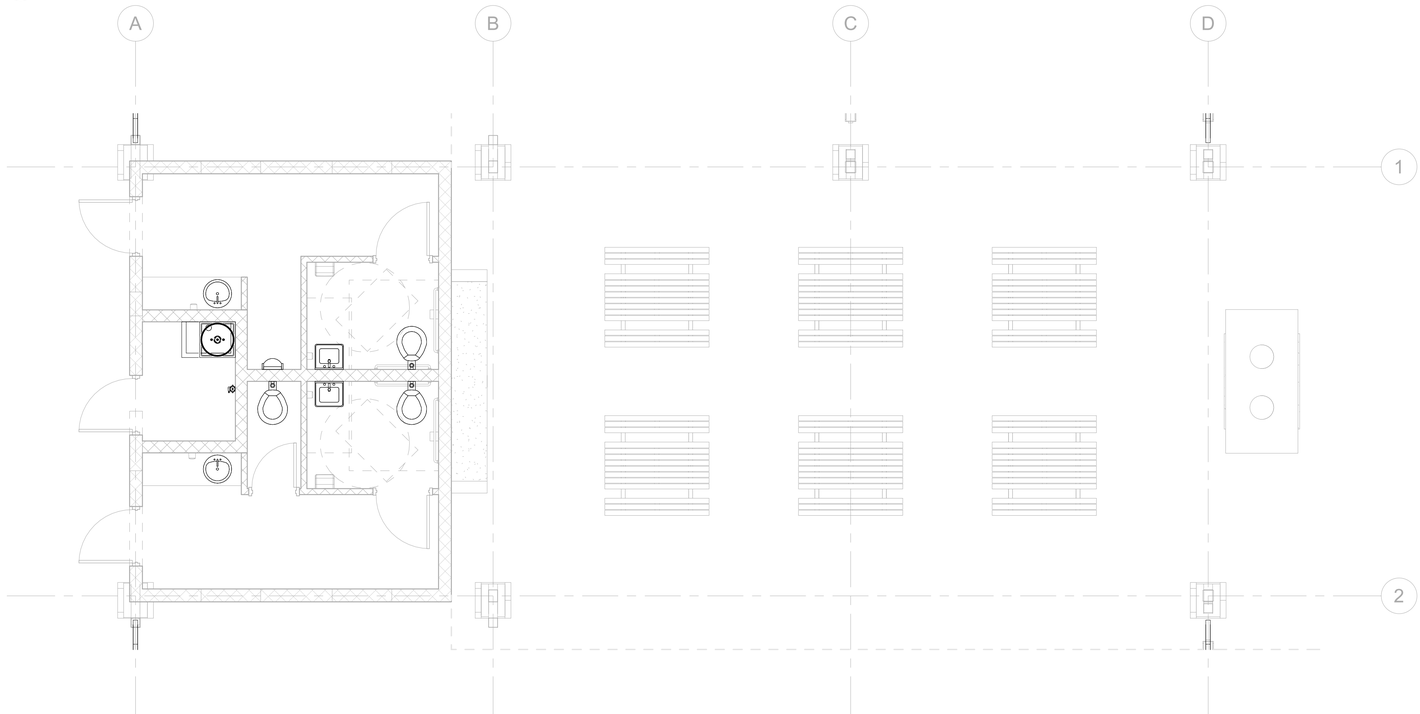


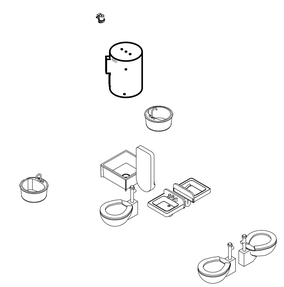
1 P1.102 PAVILION SUPPLY PLAN
1/4" = 1'-0"



3 P1.102 SUPPLY RISER



2 P1.102 PAVILION SANITARY PLAN
1/4" = 1'-0"



4 P1.102 SANITARY RISER

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REGISTRATION	Approver

SHEET TITLE
PAVILION PLUMBING PLAN

SHEET NUMBER
P1.102

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GENERAL ELECTRICAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS WHICH MUST BE ROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED.

2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.

3. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.

4. RETAIN ALL MATERIALS BEING REMOVED AND NOTIFY BUILDING MANAGER FOR DIRECTION AS TO MATERIALS TO BE SAVED OR DISCARDED. DELIVER THOSE MATERIALS TO BE SAVED TO THE LOCATION ON THE PREMISES AS DIRECTED BY THE BUILDING MANAGER.

5. REFER TO ARCHITECTURAL/INTERIOR DRAWINGS FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND OUTLETS. ALL WALL POWER AND TELEPHONE OUTLETS SHALL BE MOUNTED AT 18" A.F.F. TO CENTER AND ALL LIGHT AND DIMMER SWITCHES SHALL BE MOUNTED AT 48" A.F.F TO CENTER. EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE ON THE PLANS. DIMENSIONS NOTED ON ARCHITECTURAL/INTERIOR DESIGNER'S DRAWINGS SHALL PREVAIL.

6. NEW EXIT LIGHT FIXTURES SHALL MATCH EXISTING EXIT LIGHT FIXTURE IN SAME AREA.

7. CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT NEW BATTERY BACK-UP (MINIMUM 1100 LUMEN) IN EXISTING RELOCATED LIGHT FIXTURES FOR EMERGENCY LIGHTING, MINIMUM 1.5 HR. OF BACK-UP. (TYPICAL FOR ALL NON-GENERATOR BACK-UP SYSTEMS.)

8. CONTRACTOR MAY COMBINE WIRES IN ONE CONDUIT FOR CONVENIENCE OF INSTALLATION, PROVIDED ALL THE REQUIREMENTS OF THE N.E.C. ARE OBSERVED.

9. ALL ELECTRICAL EQUIPMENT IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD AVOIDING INTERFERENCES.

10. THE INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND ALL REQUIREMENTS OF THE LATEST EDITION OF THE N.E.C., OSHA, STATE AND LOCAL CODES.

- FLORIDA BUILDING CODE 2020, 7TH EDITION
- FLORIDA FIRE PREVENTION CODE 2020, 7TH EDITION
- NFPA 70 NATIONAL ELECTRIC CODE 2017
- NFPA 72 NATIONAL FIRE ALARM CODE 2016
- NFPA 101 LIFE SAFETY CODE 2018

11. ALL WIRE SHALL BE COPPER. ALL WIRE, CONDUIT AND BREAKERS SHALL BE #12 COPPER WIRE (THHN OR THWN), 1/2" CONDUIT AND 20 AMP SINGLE POLE BREAKERS UNLESS OTHERWISE NOTED. (TYPICAL)

12. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 75 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 150 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

13. PROVIDE #6 COPPER GROUND TO TELEPHONE BACKBOARD.

14. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.

15. CONTRACTOR SHALL UPDATE PANEL DIRECTORY AS PER WIRING IN FIELD.

16. CONTRACTOR SHALL USE EXISTING SPARE BREAKERS/BLANKS IN PANEL(S) AND CIRCUITS MADE AVAILABLE THROUGH DEMOLITION PRIOR TO ADDING NEW PANEL(S). VERIFY IN FIELD.

17. THE INSTALLATION OF WIRING, RACEWAY AND DEVICES FOR THE FIRE ALARM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY CODES, NFPA CODES AND UNIFORM RULE 4A-48, RULES AND REGULATIONS OF THE STATE FIRE MARSHAL'S OFFICE F.S. 633.01 AND 633.701.

18. THE FIRE ALARM CONTRACTOR SHALL PERFORM A SITE VISIT PRIOR TO BID TO VERIFY ENOUGH POWER EXISTS TO OPERATE ALL NEW AND EXISTING FIRE ALARM DEVICES. INCLUDE AN EXPANDER PANEL IF REQUIRED.

19. ALL CIRCUIT BREAKERS FOR MECHANICAL EQUIPMENT SHALL BE HACR RATED.

20. ALL NEW BREAKERS ADDED TO EXISTING PANELS SHALL HAVE SAME A.I.C. RATING AS EXISTING BREAKERS UNLESS NOTED OTHERWISE.

21. VOLTAGE DROP HAS BEEN CALCULATED IN COMPLIANCE WITH FBC ENERGY CONSERVATION C405.6.3 AND NEC 210.19(A)(1)FPN#4. VOLTAGE DROP IN COMBINED CONDUCTORS TO BE MAXIMUM OF 5% AT DESIGN LOAD.

22. FIRE ALARM PERMIT DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE FIRE ALARM SYSTEM CONTRACTOR.

23. ANY NEW FIRE ALARM VISUAL DEVICES SHALL HAVE A CANDELA RATING OF 75 UNLESS NOTED OTHERWISE. ANY NEW FIRE ALARM AUDIO DEVICE SHALL HAVE A MINIMUM 85 DECIBEL OUTPUT. ANY NEW FIRE ALARM SPEAKER DEVICE SHALL BE 0.5 WATT UNLESS NOTED OTHERWISE.

24. LIGHT FIXTURE SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS PER FIELD TECHNICAL INFORMATION #40. LIGHT FIXTURE WEIGHING LESS THAN 10 LBS SHALL HAVE (1) 12 GA HANGWIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING MORE THAN 10 LBS SHALL HAVE (2) 12 GA WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.

25. MINIMUM EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 1½ HOURS IN THE EVENT OF FAILURE OF NORMAL LIGHTING. WITHIN THE WORK AREAS. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. FBC 2020 1008, EXISTING FBC 2020 805.7.

26. BREAKERS FOR ALL MULTIPLE CIRCUIT HOMERUNS WHICH SHARE A COMMON NEUTRAL SHALL BE CONNECTED WITH BREAKER TIES.

27. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION AND CHAPTER 633, FLORIDA STATUTES. FBC 110.8.4.4 2020.

28. ALL ELECTRICAL BOXES INSTALLED IN A FIRE RATED WALL SHALL BE SEPARATED BY A MINIMUM OF 24" OR BE PROTECTED BY LISTED PUTTY PADS. ALL LISTED ELECTRICAL BOXES INSTALLED IN A FIRE RATED WALL SHALL BE SEPARATED BY LISTING DISTANCE OF THE BOX OR BE PROTECTED BY LISTED PUTTY PADS. ELECTRICAL BOXES SHALL COMPLY WITH ALL CRITERIA SET FORTH IN FBC 714.3.2.

ELECTRICAL SYMBOLS LEGEND

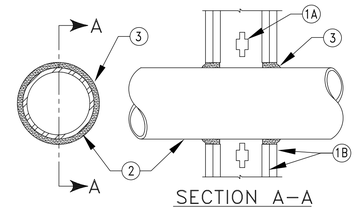
SYMBOLS	LEGEND	SYMBOLS	LEGEND
	LIGHTING FIXTURE	T	TRANSFORMER – AS NOTED
	WALLWASHER LIGHT FIXTURE		WALL COMMUNICATION OUTLET. PROVIDE MIN. 1" CONDUIT WITH PULL WIRES TO ABOVE CEILING.(TELE/DATA/CABLE TV)
	FLUORESCENT LIGHTING FIXTURE		FLOOR TELE/DATA BOX
	FLUORESCENT STRIP LIGHTING FIXTURE		FIREMANS PHONE JACK
	EXIT SIGN FIXTURE – ARROWS AS INDICATED	CR	CARD READER
	FIXTURES ON EMERGENCY CIRCUIT OR FURNISHED W/ BATTERY PACK		PLUGMOLD
	REMOTE EMERGENCY LIGHT W/BATTERY PACK	M	MAGNETIC DOOR HOLDER (REF. HARDWARE SPEC'S)
	S.P.S.T. TOGGLE SWITCH	D	FIRE ALARM SMOKE DETECTOR – CEILING/WALL MOUNTED
	THREE-WAY TOGGLE SWITCH / FOUR-WAY TOGGLE SWITCH	H	FIRE ALARM HEAT DETECTOR
	SWITCH WITH PILOT LIGHT	F	FIRE ALARM SIGNAL LIGHT, MTD. 82"A.F.F.
	DIMMER SWITCH	F	FIRE ALARM SPRINKLER FLOW SWITCH
	DUPLEX RECEPTACLE OUTLET	V	FIRE ALARM SPRINKLER VALVE TAMPER SWITCH
	DUPLEX RECEPTACLE OUTLET – MTD. ABOVE COUNTER	D	FIRE ALARM SMOKE DETECTOR – DUCT MOUNTED
	QUADRAPLEX RECEPTACLE OUTLET	S	FIRE ALARM SPEAKER, CLG. MTD.
	SINGLE RECEPTACLE OUTLET MTD. AS NOTED	F (OR S)	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE WALL MTD. 82"A.F.F. "F" INDICATES HORN. "S" INDICATES SPEAKER
	FLOOR OUTLET WITH RECEPTACLE		
D	DEDICATED DUPLEX OUTLET	F	MANUAL STATION 48"A.F.F.
	SPECIAL PURPOSE OUTLET – AS NOTED	R (OR C)	"R" INDICATES RELAY. "C" INDICATES CONTROL
J	JUNCTION BOX – CEILING MOUNTED		"DO NOT USE ELEVATOR" WARNING LIGHT(F.B. F.A. CONTRACTOR)
J	JUNCTION BOX – WALL MOUNTED		MOTORIZED DAMPER
J	FLOOR JUNCTION BOX	SD	SMOKE DAMPER
PP	FURNITURE SYSTEM POWER POLE	A	ABANDONED
	FURNITURE SYSTEM WALL POWER FEED	AFF	ABOVE FINISHED FLOOR OR GRADE
	FURNITURE SYSTEM WALL TELE/DATA	CLG	CEILING
	DISCONNECT SWITCH – 30A/3/NF U.O.N.	E	EXISTING
F	FUSED DISCONNECT SWITCH	EDF	ELECTRIC DRINKING FOUNTAIN
B	ENCLOSED CIRCUIT BREAKER	GFI	GROUND FAULT INTERRUPTING
	277/480 VOLT PANELBOARD	IG	ISOLATED GROUND
	120/208 VOLT PANELBOARD	LTG	LIGHTING
	MOTOR	NF	NON-FUSED
	CONDUIT CONCEALED IN WALL OR OVERHEAD	OC	ON CENTER
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND	R	RELOCATED
	CONDUIT RUN EXPOSED	REC	RECEPTACLE
	CONDUIT WHIP UNDER RAISED FLOOR	SPR	SPARE
	TICK MARKS INDICATE #12 CONDUCTORS OR AS NOTED	UON	UNLESS OTHERWISE NOTED
	GROUND CONNECTION AS NOTED	WP	INDICATES WEATHERPROOF DEVICE OR PLATE
	CONDUIT STUB-UP LOCATION	FACP	FIRE ALARM CONTROL PANEL
	CONDUIT STUB-DOWN LOCATION	FARA	FIRE ALARM ANNUNCIATOR PANEL
•	SPECIAL PURPOSE CONDUIT SEE PLANS FOR NOTES	SLC	SIGNALING LINE CIRCUIT
SM	MOTOR STARTER – MANUAL	NAC	NOTIFICATION APPLIANCE CIRCUIT
	MOTOR STARTER – MAGNETIC	K	FIRE ALARM KNOX BOX
	CONTROLLED SPLIT WIRED RECEPTACLE	S	CEILING MOUNTED SPEAKER
	CEILING 180 OR WALL MOUNTED 90 OCCUPANCY SENSOR	DL	CEILING MOUNTED DAYLIGHT SENSOR

NOTE: NOT ALL SYMBOLS ARE USED.

SYSTEM NO. W-L-1001

UPDATED JUNE 15, 2005

F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating @ Ambient - less than 1 CFM/sq ft
L Rating @ 400° F - less than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly -** The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

   B. Gypsum Board* - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through Penetrant -** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
   E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

      OMEGA FLEX INC

      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

      GASTITE, DIV. OF TITEFLEX

      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

      WARD MFG INC

3. **Fill,Void or Cavity Material* - Caulk or Sealant -** Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall.
   The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table.
   The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY - CP 25WB + or FB-3000 WT ,

*Bearing the UL Classification Marking

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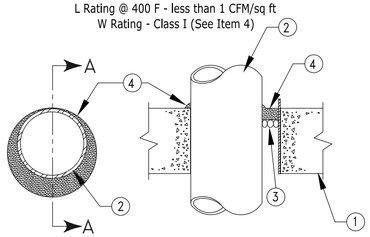
SYSTEM NO. C-AJ-1044

UPDATED MARCH 15, 2007

F Ratings - 2, 3, and 4 Hr (See item 2A and 4)
T Rating - 0 Hr
L Rating @ Ambient - 2 CFM/sq ft
L Rating @ 400 F - less than 1 CFM/sq ft
W Rating - Class I (See Item 4)



SECTION A-A

1. **Floor or Wall Assembly -** Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core **Precast Concrete Units***. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is in solid lightweight or normal weight concrete. Floor is 32 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).

   See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

   1A. Steel Sleeve (Optional, not shown) - Nom. 16 in. (406 mm) diam. (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom. 16 in. (406 mm) diam. (or smaller) min 0.028 (0.71 mm) thick galvanized sheet steel sleeve cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants -** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 0 in. (point contact). Max. annular space to be as shown in the table in Item 4. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used.

   A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   D. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   E. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   F. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Packing Material -** Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

   3A. Forming Material - As an alternate to the packing material in Item. 3, nom. 4 in. (102 mm) wide strips of min. 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min. 4 in. (102 mm) depth. As an option, the strips of min. 1/2 in. (13 mm) thick compressible mat may be folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min. 2 in. (51 mm) depth. Top of forming material to be recessed from top furface of floor or from both surfaces of wall as necessary to accommodate the quired thickness of caulk fill material.

   3M COMPANY - Fire Barrier Packing Material.

4. **Fill,Void or Cavity Material* - Caulk, Sealant -** Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns In. (mm)	Nom Pipe Tube or Conduit Diam in. (mm)	Max Annular Space in. (mm)	Min Caulk Thkns in. (mm)	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

   a. Min 2 in. (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.
   b. Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY - CP 25WB + or FB-3000 WT. (Note: W Rating applies only when FB-3000 WT sealant is used.)

*Bearing the UL Classification Marking

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

SHEET TITLE

CAULEY LOTT PARK
ELECTRICAL
NOTES AND
DETAILS

SHEET NUMBER

E1.001

A GAI CONSULTANTS, INC SERVICE GROUP

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gai consultants

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
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PROJECT NUMBER	20-021
DATE:	08/2021
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REGISTRATION

SHEET TITLE

CAULEY LOTT PARK
ELECTRICAL SPECIFICATION
SHEETS

SHEET NUMBER

E1.002

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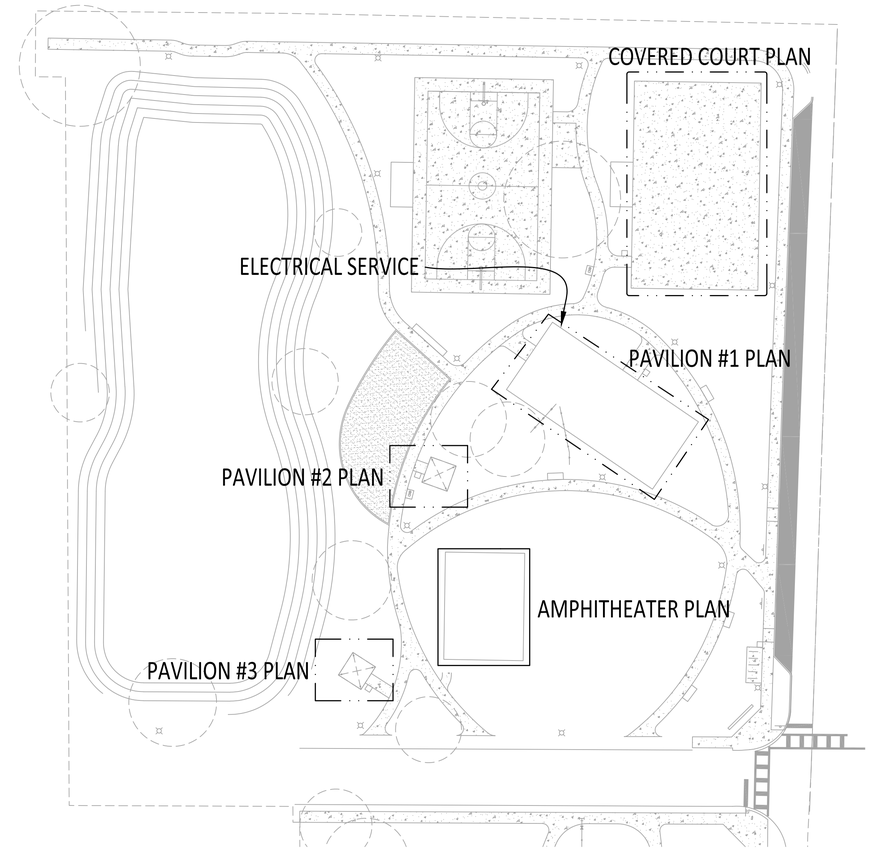

ELECTRICAL KEY PLAN

SCALE: 3/32" = 1'-0"

N

COMMUNITY SOLUTIONS GROUP

gai consultants

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

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REGISTRATION

CAULEY LOTT PARK

SHEET TITLE

ELECTRICAL KEY PLAN

SHEET NUMBER

E1.100

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POWER NOTES

1. NEW FIRE ALARM DEVICES SHOWN SHALL BE COMPATIBLE WITH EXISTING SYSTEM AND BE ABLE TO SYNCHRONIZE WITH EXISTING DEVICES. CONTRACTOR SHALL VERIFY EXISTING SYSTEM HAS THE CAPACITY TO ADD ADDITIONAL DEVICES AS SHOWN OR TO ADD ADDITIONAL SIGNAL AND ZONE EXPANDERS TO PROVIDE A PROPERLY FUNCTIONING FIRE ALARM SYSTEM.

2. PHONE BOARD, PROVIDE 4'X4'X3/4" FIRE RETARDANT PLYWOOD MOUNTED 6" DOWN FROM CEILING. PROVIDE SEPARATE NEUTRAL AND A #6 GROUND CONDUCTOR TO BUILDING GROUND. VERIFY EXACT LOCATION WITH OWNER. PROVIDE 2" CONDUIT WITH PULL STRING TO TELEPHONE DEMARCATION.

---------- NOTES TO BE REVIEWED. REMOVE NOTES THAT ARE NOT BEING USED

4. PROVIDE 20A/1P SNAP SWITCH TO DISCONNECT 277V,1Ø 3KW INSTA-HOT. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION. CIRCUIT WITH (2)#12 & (1)#12 EG IN 1/2" CONDUIT.

5. PROVIDE 30A/3P/NF/N3R DISCONNECT FOR 208V,3Ø 7.5KW, 1/8HP, 29MCA AHU-1, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION. CIRCUIT WITH (3)#10 & (1)#10 EG IN 3/4" CONDUIT.

GENERAL POWER NOTES:

1. FOR 120V CIRCUITS, WHEN BRANCH CIRCUIT LENGTH EXCEEDS 75 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 150 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

2. FOR 277V CIRCUITS. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 100 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 180 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

3. ADDITIONAL POWER MAY BE REQUIRED FOR FIRE ALARM SYSTEM.

4. CONTRACTOR SHALL PATCH THE WALL AS NEEDED FOR ALL DEVICES BEING DEMOLISHED.

5. DEDICATED RECEPTACLES SHALL BE MARKED BY CONTRACTOR.

FIXTURE, SWITCHING & DEVICE SUFFIXES:
E = EXISTING
R = RELOCATE. EXTEND/MODIFY EXISTING CONDUCTORS AS REQUIRED AND RECONNECT. REPLACE DEVICE IF REQUIRED.
N = NEW
DE = DEMOLISH
CLG = CEILING MOUNTED
DED = DEDICATED
TV = TELEVISION OUTLET. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
H = HORIZONTALLY MOUNTED RECEPTACLE
SW = SHOW WINDOW RECEPTACLE. MOUNT WITHIN 18" OF TOP OF WINDOW
WP = WEATHER PROOF. PROVIDE APPROPRIATE ENCLOSURE AS NEEDED
VIF = VERIFY DEVICE FINAL LOCATION IN FIELD WITH ARCHITECT OR CLIENT
USB = RECEPTACLE TO BE PROVIDED WITH USB COMBO PORTS

SPECIAL ELECTRICAL NOTES:

1. J-BOXES ABOVE CEILING SHALL BE LABELED WITH A CIRCUIT NUMBER AND PANEL DESIGNATION.

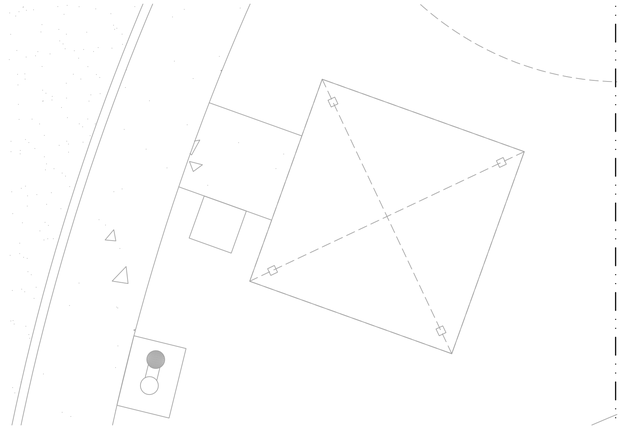
2. REUSE CIRCUITS MADE AVAILABLE BY DEMOLITION PRIOR TO ADDING CIRCUITS AND PANELBOARDS.

3. ALL ELECTRICAL DISCONNECTS INSTALLED OUTDOORS SHALL BE GALVANIZED METAL DISCONNECTS, NEMA 3R.

4. GENERAL CONTRACTOR AND ALL SUB CONTRACTORS OR INSTALLERS SHALL REVIEW BOTH ARCHITECTURAL AND ALL MEP DRAWINGS AND SCHEDULES PRIOR TO BID, PROCUREMENT OR COMMENCING ANY WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS FOR FIXTURE TYPE, FINISH, QUANTITY, SIZE, LOCATION, TYPE OF INSTALLATION, ACCESSORIES, ETC. SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING. WITHOUT FORMAL AUTHORIZATION, THE ARCHITECT AND OWNER RESERVE THE RIGHT TO REQUIRE THE MORE RESTRICTIVE SPECIFICATION.

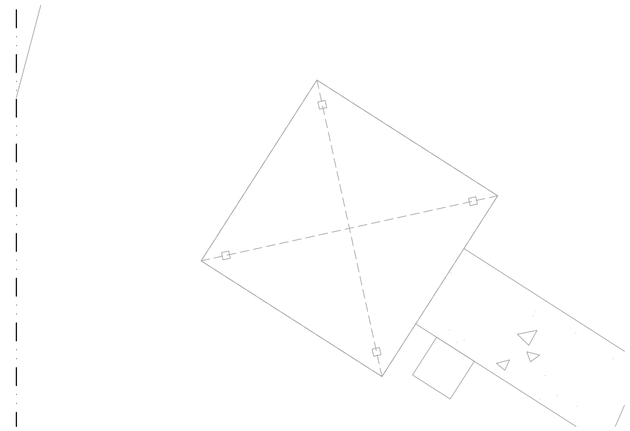
5. PRIOR TO CREATING ANY PENETRATIONS OF THE CONCRETE FLOOR SLAB, SUCH AS CORE DRILLING, DRILLING OR SAWCUTTING, THE G.C. SHALL LOCATE ALL EXISTING SLAB REINFORCEMENT USING X-RAY. THE G.C. SHALL RELOCATE THE SLAB PENETRATION AS NECESSARY TO AVOID CUTTING ANY SLAB REINFORCEMENT. IF RELOCATION OF A FLOOR PENETRATION IS REQUIRED, CONSULT WITH THE OWNER OR ARCHITECT FOR APPROVAL OF THE PROPOSED NEW LOCATION PRIOR TO PROCEEDING.

THE PLANS REFLECT SYSTEMS VOLTAGES DROP AS PER FBC ENERGY CONSERVATION 2020 SEVENTH C405.5.3 FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTOR ARE SIZED FOR A MAXIMUM DROP OF 3 PERCENT AT DESIGN LOAD.



PAVILION #2 PLAN
SCALE: 1/4" = 1'-0"

N



PAVILION #3 PLAN
SCALE: 1/4" = 1'-0"

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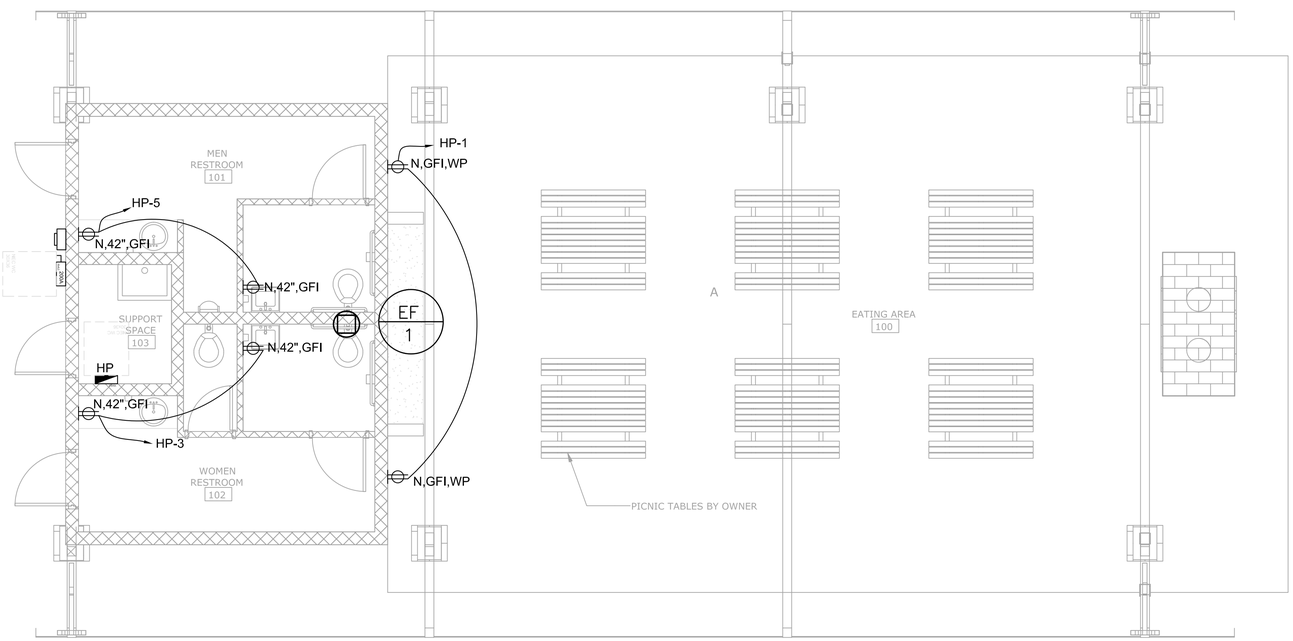

PAVILION #1 PLAN
SCALE: 1/4" = 1'-0"

N

COMMUNITY SOLUTIONS GROUP

gai consultants

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

SHEET TITLE

ELECTRICAL PLAN

SHEET NUMBER

E1.101

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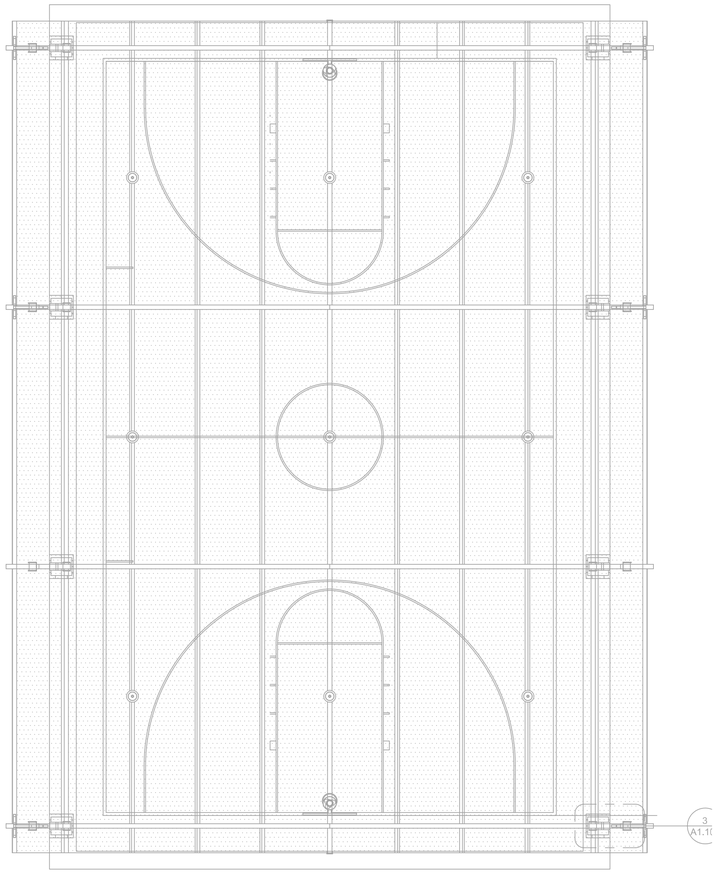


COVERED COURT PLAN

SCALE: 1/8" = 1'-0"

N

POWER NOTES

1. NEW FIRE ALARM DEVICES SHOWN SHALL BE COMPATIBLE WITH EXISTING SYSTEM AND BE ABLE TO SYNCHRONIZE WITH EXISTING DEVICES. CONTRACTOR SHALL VERIFY EXISTING SYSTEM HAS THE CAPACITY TO ADD ADDITIONAL DEVICES AS SHOWN OR TO ADD ADDITIONAL SIGNAL AND ZONE EXPANDERS TO PROVIDE A PROPERLY FUNCTIONING FIRE ALARM SYSTEM.

2. PHONE BOARD, PROVIDE 4'X4'X3/4" FIRE RETARDANT PLYWOOD MOUNTED 6" DOWN FROM CEILING. PROVIDE SEPARATE NEUTRAL AND A #6 GROUND CONDUCTOR TO BUILDING GROUND. VERIFY EXACT LOCATION WITH OWNER. PROVIDE 2" CONDUIT WITH PULL STRING TO TELEPHONE DEMARCATION.

---------- NOTES TO BE REVIEWED, REMOVE NOTES THAT ARE NOT BEING USED

4. PROVIDE 20A/1P SNAP SWITCH TO DISCONNECT 277V,1Ø 3KW INSTA-HOT. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION. CIRCUIT WITH (2)#12 & (1)#12 EG IN 1/2" CONDUIT.

5. PROVIDE 30A/3P/NF/N3R DISCONNECT FOR 208V,3Ø 7.5KW, 1/8HP, 29MCA AHU-1. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION. CIRCUIT WITH (3)#10 & (1)#10 EG IN 3/4" CONDUIT.

GENERAL POWER NOTES:

1. FOR 120V CIRCUITS, WHEN BRANCH CIRCUIT LENGTH EXCEEDS 75 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 150 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

2. FOR 277V CIRCUITS, WHEN BRANCH CIRCUIT LENGTH EXCEEDS 100 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 180 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

3. ADDITIONAL POWER MAY BE REQUIRED FOR FIRE ALARM SYSTEM.

4. CONTRACTOR SHALL PATCH THE WALL AS NEEDED FOR ALL DEVICES BEING DEMOLISHED.

5. DEDICATED RECEPTACLES SHALL BE MARKED BY CONTRACTOR.

FIXTURE, SWITCHING & DEVICE SUFFIXES:
E = EXISTING
R = RELOCATE. EXTEND/MODIFY EXISTING CONDUCTORS AS REQUIRED AND RECONNECT. REPLACE DEVICE IF REQUIRED.
N = NEW
DE = DEMOLISH
CLG = CEILING MOUNTED
DED = DEDICATED
TV = TELEVISION OUTLET. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
H = HORIZONTALLY MOUNTED RECEPTACLE
SW = SHOW WINDOW RECEPTACLE. MOUNT WITH-IN 18" OF TOP OF WINDOW
WP = WEATHER PROOF. PROVIDE APPROPRIATE ENCLOSURE AS NEEDED
VIF = VERIFY DEVICE FINAL LOCATION IN FIELD WITH ARCHITECT OR CLIENT
USB = RECEPTACLE TO BE PROVIDED WITH USB COMBO PORTS

SPECIAL ELECTRICAL NOTES:

1. J-BOXES ABOVE CEILING SHALL BE LABELED WITH A CIRCUIT NUMBER AND PANEL DESIGNATION.

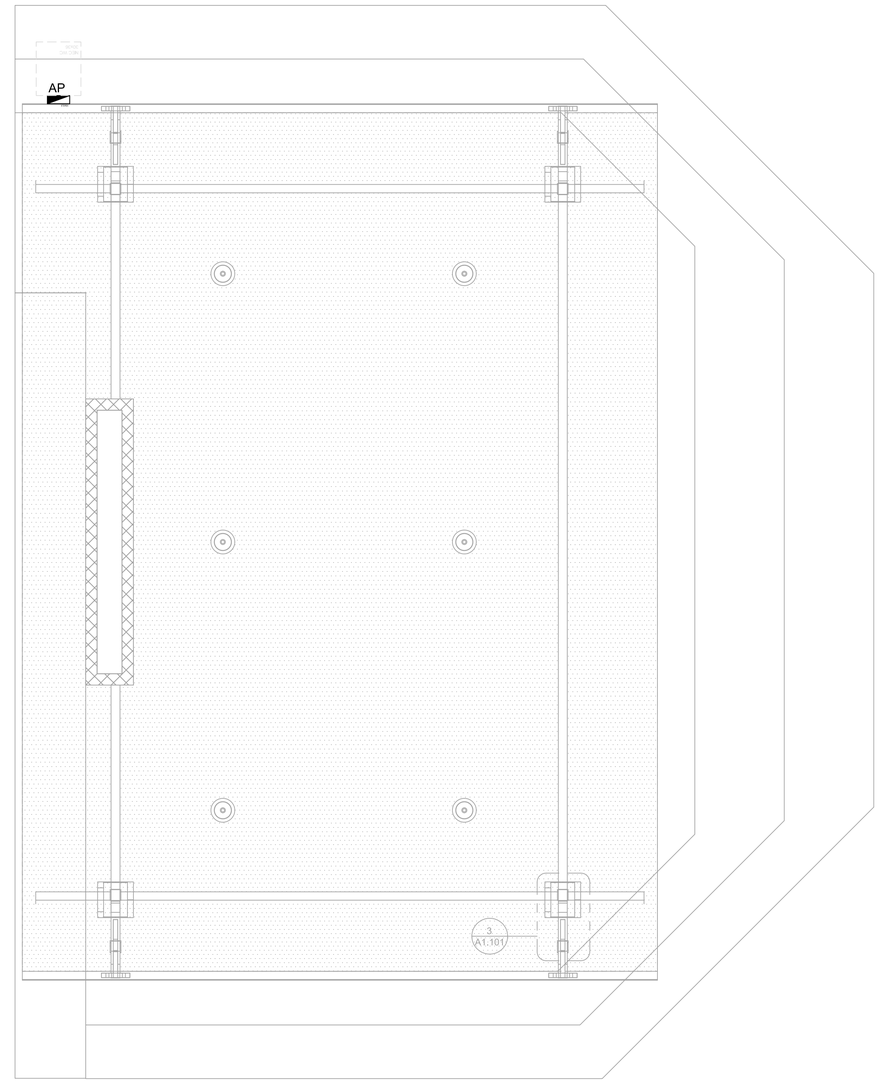
2. REUSE CIRCUITS MADE AVAILABLE BY DEMOLITION PRIOR TO ADDING CIRCUITS AND PANELBOARDS.

3. ALL ELECTRICAL DISCONNECTS INSTALLED OUTDOORS SHALL BE GALVANIZED METAL DISCONNECTS, NEMA 3R.

4. GENERAL CONTRACTOR AND ALL SUB CONTRACTORS OR INSTALLERS SHALL REVIEW BOTH ARCHITECTURAL AND ALL MEP DRAWINGS AND SCHEDULES PRIOR TO BID, PROCUREMENT OR COMMENCING ANY WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS FOR FIXTURE TYPE, FINISH, QUANTITY, SIZE, LOCATION, TYPE OF INSTALLATION, ACCESSORIES, ETC. SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING. WITHOUT FORMAL AUTHORIZATION, THE ARCHITECT AND OWNER RESERVE THE RIGHT TO REQUIRE THE MORE RESTRICTIVE SPECIFICATION.

5. PRIOR TO CREATING ANY PENETRATIONS OF THE CONCRETE FLOOR SLAB, SUCH AS CORE DRILLING, DRILLING OR SAWCUTTING, THE G.C. SHALL LOCATE ALL EXISTING SLAB REINFORCEMENT USING X-RAY. THE G.C. SHALL RELOCATE THE SLAB PENETRATION AS NECESSARY TO AVOID CUTTING ANY SLAB REINFORCEMENT. IF RELOCATION OF A FLOOR PENETRATION IS REQUIRED, CONSULT WITH THE OWNER OR ARCHITECT FOR APPROVAL OF THE PROPOSED NEW LOCATION PRIOR TO PROCEEDING.

THE PLANS REFLECT SYSTEMS VOLTAGES DROP AS PER FBC ENERGY CONSERVATION 2020 SEVENTH C405.5.3 FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTOR ARE SIZED FOR A MAXIMUM DROP OF 3 PERCENT AT DESIGN LOAD.



AMPHITHEATER PLAN

SCALE: 1/4" = 1'-0"

N

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

C.O.A. #26759
WILSON IRGENTI ENGINEERING
200 E. ROBINSON STREET, STE. 970
ORLANDO, FL 32801
WORKWITHWIG.COM
813.855.3330

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

ALL IDEAS, DESIGNS, AND DETAILS REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF **HOUSEMAN ARCHITECTURE, LLC**AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, OR DETAILS SHALL BE USED BY OR DISCLOSED TO ANYONE FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF**HOUSEMAN ARCHITECTURE, LLC.**

REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

SHEET TITLE

ELECTRICAL PLAN

SHEET NUMBER

E1.103

A GAI CONSULTANTS, INC SERVICE GROUP

LIGHTING NOTES

1. NO NEW WORK TO BE DONE IN THIS AREA.

2. PROVIDE NEW SINGLE POLE, LINE VOLTAGE, STANDARD RANGE, WALL MOUNTED, DUAL TECHNOLOGY, LIGHTING OCCUPANCY SENSOR, 0-10V DIMMING, SENSOR SWITCH MODEL #WSX-PDT-D.

3. ONE POLE RELAY. PROVIDE NEW POWER PACK MODULE FOR LOW VOLTAGE OCCUPANCY SENSORS. SENSOR SWITCH MODEL #PP20. WHERE A MANUAL OFF SWITCH IS PROVIDED CONNECT THE OFF SWITCH IN BETWEEN THE POWER PACK AND THE LOAD. RELAY SHALL CONTROL ALL LIGHT FIXTURES ON CIRCUIT EXCEPT EMERGENCY/EXIT LIGHTS.

4. PROVIDE NEW SINGLE POLE, LOW VOLTAGE, EXTENDED RANGE, CEILING MOUNTED, DUAL TECHNOLOGY, LIGHTING OCCUPANCY SENSOR, SENSOR SWITCH MODEL #CM-PDT-10. WHERE MULTIPLE SENSORS ARE REQUIRED FOR PROPER COVERAGE, WIRE THE SENSORS IN PARALLEL.

5. PROVIDE NEW PUSH BUTTON SENSORSWITCH MODEL #sPODM-D OR EQUALS WITH AUTOMATIC 'ON' OPTION AND INDICATOR LIGHT. REFER TO SWITCHING GROUP FOR MORE INFORMATION ON CONTROLLING GROUP. PROVIDE 3-WAY AND/OR DIMMER OPTION AS REQUIRED. OCCUPANCY SENSORS SHALL TURN LIGHTS OFF AFTER 30MIN IF UNOCCUPIED.

GENERAL LIGHTING NOTES:

1. FOR 120V CIRCUITS, WHEN BRANCH CIRCUIT LENGTH EXCEEDS 75 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 150 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

2. FOR 277V CIRCUITS, WHEN BRANCH CIRCUIT LENGTH EXCEEDS 100 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 180 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

3. ALL DIMMABLE LIGHTS SHALL BE PROVIDED WITH 0-10V DIMMING WIRES OR OTHER WIRING AS REQUIRED.

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3 = 3-WAY SWITCHES
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a,b...etc.= LOWER CASE LETTERS INDICATE CONTROL GROUPS.
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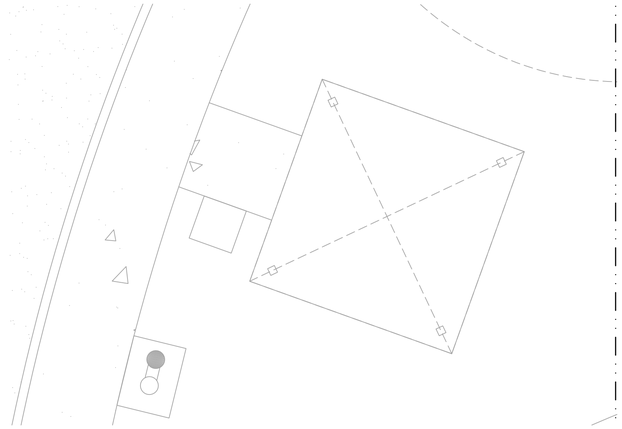
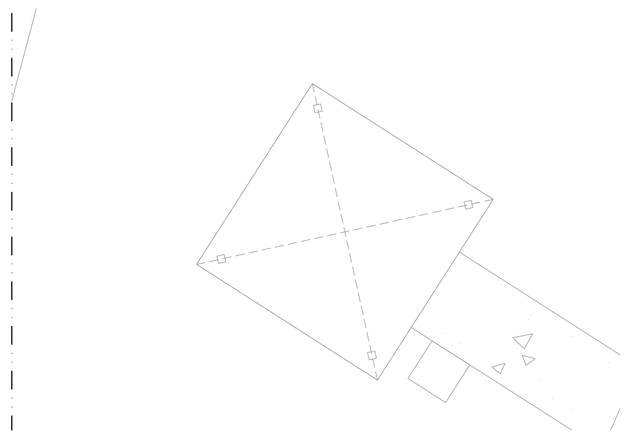
VIF = VERIFY DEVICE FINAL LOCATION IN FIELD WITH ARCHITECT OR CLIENT

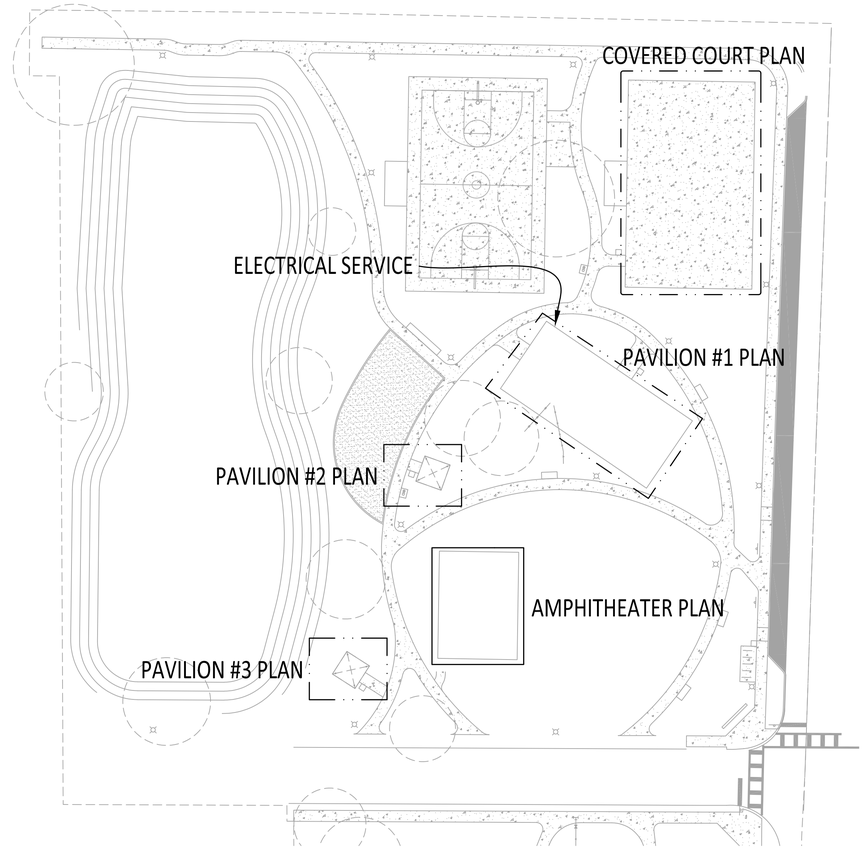
ALL EXIT SIGNS, EMERGENCY LIGHTS AND NIGHTLIGHTS SHALL BE CONNECTED TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT AND BE PROVIDED WITH 90MIN BATTERY BACKUP. (TYPICAL FOR ALL NON-GENERATOR BACK-UP SYSTEMS)



PAVILION #2 PLAN
SCALE: 1/4" = 1'-0"



PAVILION #3 PLAN
SCALE: 1/4" = 1'-0"



LIGHTING KEY PLAN
SCALE: 3/32" = 1'-0"

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
CAULEY LOTT PARK
Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

C.O.A. #26759
WILSON IRGENTI ENGINEERING
200 E. ROBINSON STREET, STE. 970
ORLANDO, FL 32801
WORKWITHWG.COM
813.855.3330

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017945

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION
CAULEY LOTT PARK

SHEET TITLE
LIGHITING PLAN

SHEET NUMBER
E2.101

A GAI CONSULTANTS, INC SERVICE GROUP

LIGHTING NOTES

1. NO NEW WORK TO BE DONE IN THIS AREA.

2. PROVIDE NEW SINGLE POLE, LINE VOLTAGE, STANDARD RANGE, WALL MOUNTED, DUAL TECHNOLOGY, LIGHTING OCCUPANCY SENSOR, 0-10V DIMMING, SENSOR SWITCH MODEL #WSX-PDT-D.

3. ONE POLE RELAY. PROVIDE NEW POWER PACK MODULE FOR LOW VOLTAGE OCCUPANCY SENSORS. SENSOR SWITCH MODEL #PP20. WHERE A MANUAL OFF SWITCH IS PROVIDED CONNECT THE OFF SWITCH IN BETWEEN THE POWER PACK AND THE LOAD. RELAY SHALL CONTROL ALL LIGHT FIXTURES ON CIRCUIT EXCEPT EMERGENCY/EXIT LIGHTS.

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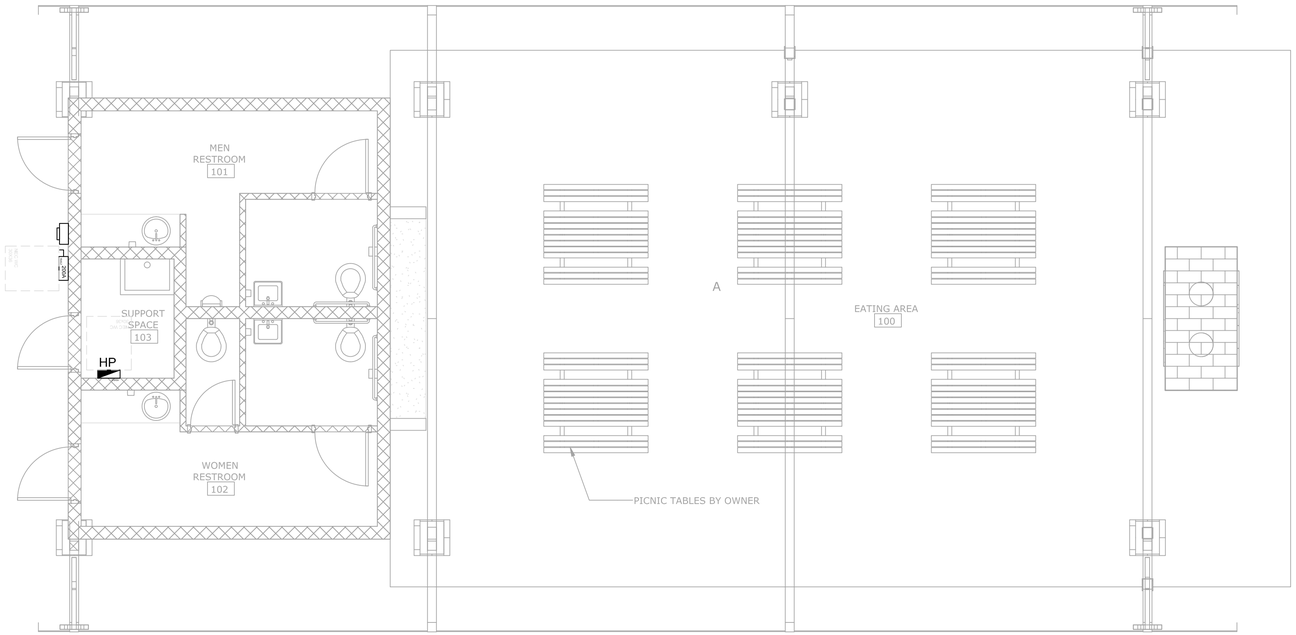

PAVILION #1 PLAN

SCALE: 1/4" = 1'-0"

N

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

C.O.A. #26759
WILSON IRGENTI ENGINEERING
200 E. ROBINSON STREET, STE. 970
ORLANDO, FL 32801
WORKWITHWIG.COM
813.855.3330

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

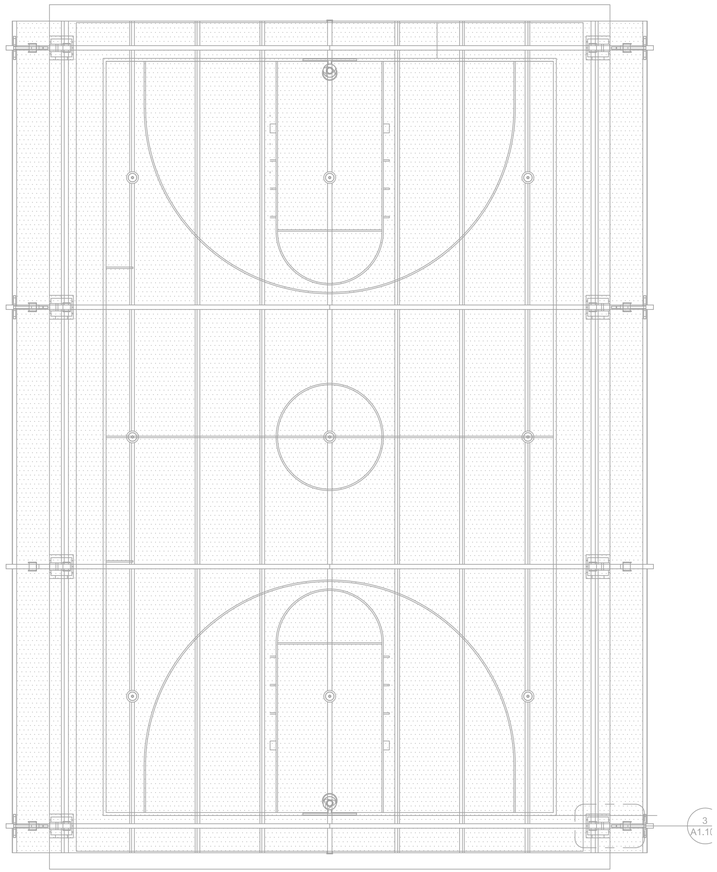
SHEET TITLE

LIGHTING PLAN

SHEET NUMBER

E2.102

A GAI CONSULTANTS, INC SERVICE GROUP



COVERED COURT PLAN

SCALE: 1/8" = 1'-0"

N

LIGHTING NOTES

1. NO NEW WORK TO BE DONE IN THIS AREA.

2. PROVIDE NEW SINGLE POLE, LINE VOLTAGE, STANDARD RANGE, WALL MOUNTED, DUAL TECHNOLOGY, LIGHTING OCCUPANCY SENSOR, 0-10V DIMMING, SENSOR SWITCH MODEL #WSX-PDT-D.

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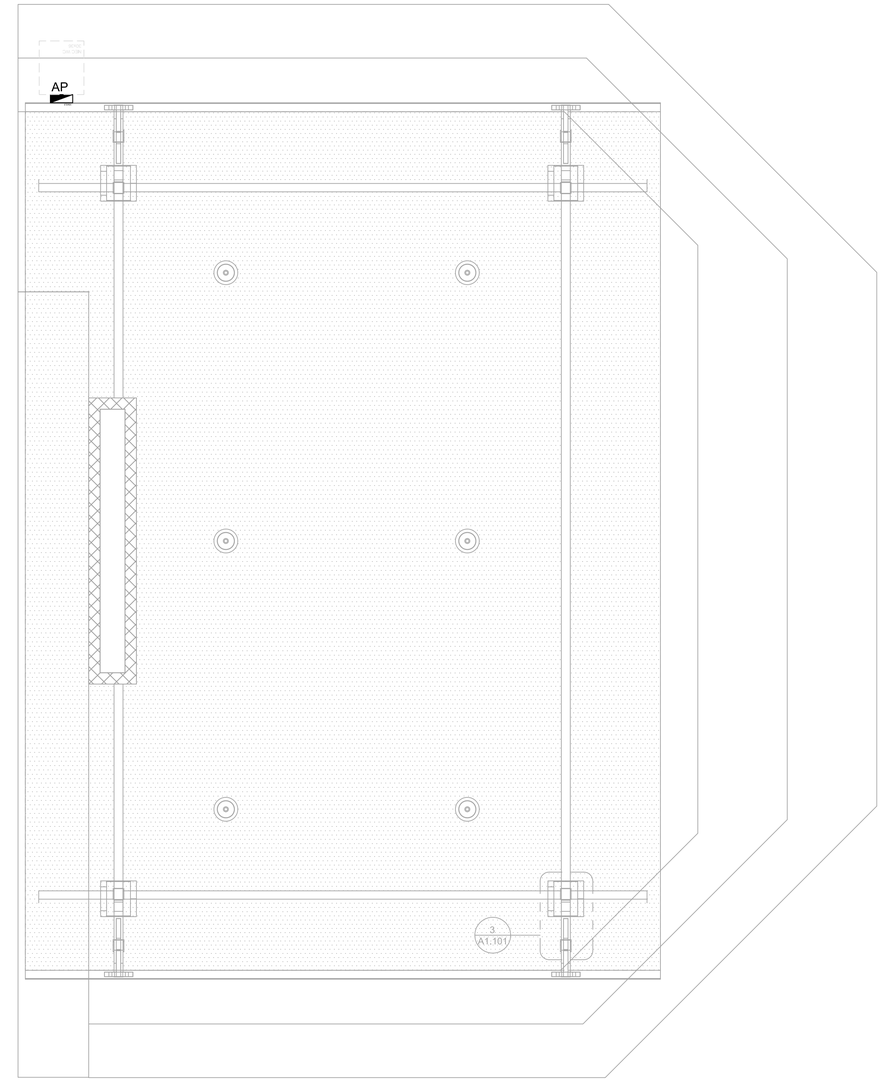

PAVILION #1 PLAN

SCALE: 1/4" = 1'-0"

N

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

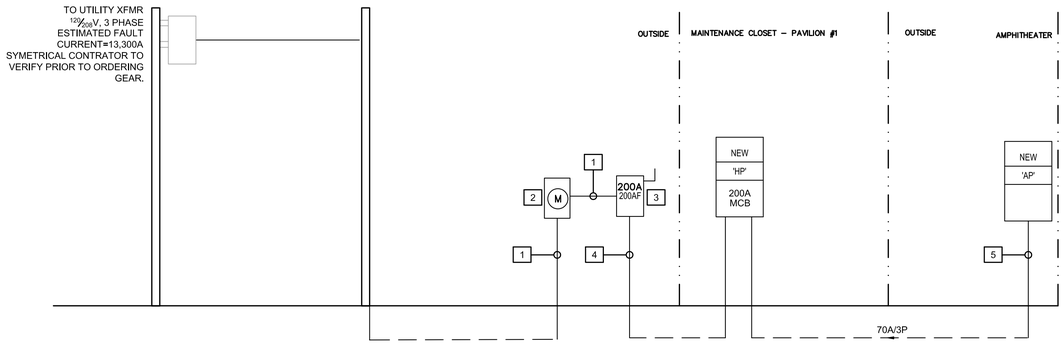
SHEET TITLE

LIGHTING PLAN

SHEET NUMBER

E2.103

A GAI CONSULTANTS, INC SERVICE GROUP



ELECTRICAL RISER

SCALE: NOT-TO-SCALE

NEW
PANEL HP VOLTAGE 120 / 208 V SIZE 200A MCB CABINET SURFACE NEMA-3R
SQAURE D OR EQUAL PHASE 3 PH 200A BUS RATING 22,000 AIC RATED
4 W

NOTES	REMARKS	CKT.BKR. AMPS	P	VA PHASE LOAD A	B	C	CKT.#	BUS A	B	C	CKT.#	VA PHASE LOAD A	B	C	CKT.BKR. AMPS	P	REMARKS	NOTES
	RR	20	1	1200			1	X			2	0			20	1	SPARE	
	RR	20	1		1200		3		X		4		0		20	1	SPARE	
	GEN PWR	20	1			1200	5			X	6			0	20	1	SPARE	
	SPARE	20	1	0			7	X			8	0			20	1	SPARE	
	SPARE	20	1		0		9		X		10		0		20	1	SPARE	
	SPARE	20	1			0	11			X	12			0	20	1	SPARE	
	SPARE	20	1	0			13	X			14	0			20	1	SPARE	
	SPARE	20	1		0		15		X		16		0		20	1	SPARE	
	SPARE	20	1			0	17			X	18			0	20	1	SPARE	
	SPARE	20	1	0			19	X			20	0			20	1	SPARE	
	SPARE	20	1		0		21		X		22		0		20	1	SPARE	
	SPARE	20	1			0	23			X	24			0	20	1	SPARE	
	SPARE	20	1	0			25	X			26	0			20	1	SPARE	
	SPARE	20	1		0		27		X		28		0		20	1	SPARE	
	SPARE	20	1			0	29			X	30			0	20	1	SPARE	
	SPARE	20	1	0			31	X			32	0			20	1	SPARE	
	SPARE	20	1		0		33		X		34		0		20	1	SPARE	
	SPARE	20	1			0	35			X	36			0	20	1	SPARE	
	SPARE	20	1	0			37	X			38	0			70	3	PNL 'AP'	
	SPARE	20	1		0		39		X		40		0					
	SPARE	20	1			0	41			X	42			0				
	TOTAL			1200	1200	1200						0	0	0	TOTAL			

TABULATION	TOTAL LOAD A	A̶	C	DEMAND FACTOR	DEMAND LOAD A	A̶	C	
MEASURED	0	0	0	0.00	0	0	0	0
LIGHTING	0	0	0	0.00	0	0	0	0
COOLING	0	0	0	0.00	0	0	0	0
HEATING	0	0	0	0.00	0	0	0	0
RECEPTACLE	1200	1200	1200	1.00	1200	1200	1200	3600
MISCELLANEOUS	0	0	0	0.00	0	0	0	0
KITCHEN EQUIPMENT	0	0	0	0.00	0	0	0	0
LARGEST MOTOR	0	0	0	0.00	0	0	0	0
	A	B	C		A	B	C	
TOTAL PHASE DEMAND LOAD	1200	1200	1200 VA		10.0	10.0	10.0 A	
TOTAL DEMAND LOAD			3600 VA		TOTAL DEMAND AMPS		10.0 A	

NOTES:
CONTRACTOR IS RESPONSIBLE FOR UPDATING ALL PANEL SCHEDULES WITH CURRENT DESCRIPTIONS OF ALL BRANCH CIRCUIT DESIGNATIONS.

NB = NEW BREAKER SHALL BE COMPATIBLE WITH EXISTING PANELBOARD AND SHALL MATCH PANELBOARD AIC RATING
EB = REUSE EXISTING BREAKER
G = GROUND FAULT BREAKER
T = TANDEM BREAKER
R = RELOCATED BREAKER. EXTEND/MODIFY CONDUCTORS

NEW
PANEL AP VOLTAGE 120 / 208 V SIZE 100A MLO CABINET SURFACE NEMA-3R
SQUARE D OR EQUAL PHASE 3 PH 100A BUS RATING 22,000 AIC RATED
4 W

NOTES	REMARKS	CKT.BKR. AMPS	P	VA PHASE LOAD A	B	C	CKT.#	BUS A	B	C	CKT.#	VA PHASE LOAD A	B	C	CKT.BKR. AMPS	P	REMARKS	NOTES
	SPARE	20	1	0			1	X			2	0			20	1	SPARE	
	SPARE	20	1		0		3		X		4		0		20	1	SPARE	
	SPARE	20	1			0	5			X	6			0	20	1	SPARE	
	SPARE	20	1	0			7	X			8	0			20	1	SPARE	
	SPARE	20	1		0		9		X		10		0		20	1	SPARE	
	SPARE	20	1			0	11			X	12			0	20	1	SPARE	
	SPARE	20	1	0			13	X			14	0			20	1	SPARE	
	SPARE	20	1		0		15		X		16		0		20	1	SPARE	
	SPARE	20	1			0	17			X	18			0	20	1	SPARE	
	SPARE	20	1	0			19	X			20	0			20	1	SPARE	
	SPARE	20	1		0		21		X		22		0		20	1	SPARE	
	SPARE	20	1			0	23			X	24			0	20	1	SPARE	
	SPARE	20	1	0			25	X			26	0			20	1	SPARE	
	SPARE	20	1		0		27		X		28		0		20	1	SPARE	
	SPARE	20	1			0	29			X	30			0	20	1	SPARE	
	SPARE	20	1	0			31	X			32	0			20	1	SPARE	
	SPARE	20	1		0		33		X		34		0		20	1	SPARE	
	SPARE	20	1			0	35			X	36			0	20	1	SPARE	
	SPARE	20	1	0			37	X			38	0			20	1	SPARE	
	SPARE	20	1		0		39		X		40		0		20	1	SPARE	
	SPARE	20	1			0	41			X	42			0	20	1	SPARE	
	TOTAL			0	0	0						0	0	0	TOTAL			

TABULATION	TOTAL LOAD A	B	C	DEMAND FACTOR	DEMAND LOAD A	B	C	
MEASURED	0	0	0	0.00	0	0	0	0
LIGHTING	0	0	0	0.00	0	0	0	0
COOLING	0	0	0	0.00	0	0	0	0
HEATING	0	0	0	0.00	0	0	0	0
RECEPTACLE	0	0	0	0.00	0	0	0	0
MISCELLANEOUS	0	0	0	0.00	0	0	0	0
KITCHEN EQUIPMENT	0	0	0	0.00	0	0	0	0
LARGEST MOTOR	0	0	0	0.00	0	0	0	0
	A	B	C		A	B	C	
TOTAL PHASE DEMAND LOAD	0	0	0 VA		0.0	0.0	0.0 A	
TOTAL DEMAND LOAD			0 VA		TOTAL DEMAND AMPS		0.0 A	

NOTES:
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EB = REUSE EXISTING BREAKER
G = GROUND FAULT BREAKER
T = TANDEM BREAKER
R = RELOCATED BREAKER. EXTEND/MODIFY CONDUCTORS

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

C.O.A. #26769
WILSON IRGENTI ENGINEERING
200 E. ROBINSON STREET, STE. 970
ORLANDO, FL 32801
WORKWITHWIG.COM
813.856.3330

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017845

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

SHEET TITLE

RISER PLAN &
SCHEDULES

SHEET NUMBER

E3.101

A GAI CONSULTANTS, INC SERVICE GROUP

SHEET INTENTIONALLY LEFT BLANK.

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

C.O.A. #26759
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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

SHEET TITLE

SITE LIGHTING

SHEET NUMBER

ES.101

A GAI CONSULTANTS, INC SERVICE GROUP

SHEET INTENTIONALLY LEFT BLANK.

COMMUNITY SOLUTIONS GROUP

gai consultants

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SUITE 700
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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

Building Name

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60%
CONSTRUCTION
PLANS

CONSULTANTS

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/2021
DRAWN:	xx
CHECKED:	xx
APPROVED:	xx

REGISTRATION

CAULEY LOTT PARK

SHEET TITLE

SITE LIGHTING PLAN

SHEET NUMBER

ES1.102

A GAI CONSULTANTS, INC SERVICE GROUP

GENERAL STRUCTURAL NOTES

GENERAL DRAWING NOTES:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS FOR THIS PROJECT COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE FLORIDA STATUTES.

DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED, TYPICALLY. IN THE CASE OF DIMENSIONAL CONFLICT ARCHITECTURAL DIMENSIONS GOVERN OVER STRUCTURAL DIMENSIONS, TYPICALLY.

STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT FROM R.L. PLOWFIELD & ASSOCIATES, INC.

SHOP DRAWING REVIEW SHALL REQUIRE TWO (2) WEEKS FOR COMPLETION FROM TIME OF DELIVERY TO R.L. PLOWFIELD & ASSOCIATES, INC. SHOP DRAWINGS SHALL BE CHECKED & "APPROVED" BY GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.

CONTRACTORS SUBMITTING SHOP DRAWINGS TO PROVIDE ONE (1) SEPIA SET AND TWO (2) BLUELINE COPIES FOR MARK-UP.

00 02 00 BUILDING CODES:

FLORIDA BUILDING CODE - SEVENTH EDITION (2020)
ASCE 7-10.
BASIC WIND SPEED Vu=132 MPH AND Vasd=103 MPH.
BUILDING RISK CATEGORY II
BUILDING EXPOSURE "B"
INTERNAL PRESSURE COEFFICIENT, GCpi = +/-0.18 (ENCLOSED)
SEISMIC IMPORTANCE FACTOR, Ie = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS,
Ss=0.079g, S1=0.040g
SITE CLASS D
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS,
Sds=0.084g, Sd1=0.064g
SEISMIC DESIGN CATEGORY = A

00 05 00 STRUCTURAL LOADING:

THE STRUCTURE HAS BEEN DESIGNED IN ACCORD WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWING SPECIFICALLY CALL FOR DIFFERENT LOADING CRITERIA.
GRAVITY LOADING UNIFORM LIVE LOAD:

SLAB ON GRADE AREAS---------- 100 PSF
ROOF ---------- 20 PSF

01 05 10 DRAWING DIMENSIONS AND COORDINATION:

DIMENSIONAL INFORMATION, PRICING, ALL DETAILS AND CONSTRUCTION SHALL BE BASED ON THE ENTIRE SET OF CONTRACT DOCUMENTS. COORDINATE THE REQUIREMENTS OF ALL PROFESSIONALS. USE INFORMATION FROM APPROVED SHOP DRAWINGS TO SUPPLEMENT CONTRACT DOCUMENTS WHERE NECESSARY. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.

01 10 00 SCOPE OF SERVICE:

THE STRUCTURAL ENGINEER OF RECORD HAS DESIGNED AND IS RESPONSIBLE FOR ONLY THE SPECIFIC STRUCTURAL COMPONENTS SHOWN IN THIS SET OF STRUCTURAL CONSTRUCTION DOCUMENTS. IF A SPECIALTY ENGINEER, AS DEFINED BY THE DEPARTMENT OF PROFESSIONAL REGULATION, IS REQUIRED, HIS SERVICES MUST COMPLY WITH THE SCOPE OF SERVICES AS OUTLINED IN THE PROJECT CONSTRUCTION DOCUMENTS.

02 00 00 FOUNDATIONS:

A GEOTECHNICAL ENGINEERING REPORT HAS BEEN PROVIDED BY ANDREYEV ENGINEERING, INC.(AEI), LOCATED AT 4055 ST. JOHN'S PARKWAY, SANFORD, FL 32771. AEI PROJECT NO. GPGT-21-038. DATED MARCH 23, 2021. BASED ON THE REPORT PROVIDED, THE FOLLOWING FOUNDATION SYSTEM WILL BE USED:

SHALLOW SPREAD & STRIP FOOTINGS - ALLOWABLE BEARING= 2,500 PSF

GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR SPECIFYING AND MONITORING ALL TESTING, INSTALLATION, EVALUATION, AND REPORTING RELATED TO THE FOUNDATION SYSTEM, INCLUDING ALL WORKMANSHIP PROVISIONS RELATING TO THE SOIL - STRUCTURE INTERFACE. THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR SPECIFYING THE MATERIALS USED TO CONSTRUCT THE FOUNDATION UNITS AND FOR THE SELECTION OF VARIOUS SIZE UNITS TO SUPPORT THE STRUCTURAL FRAME.

DO NOT PLACE ANY FOOTINGS OR MATS UNTIL RECEIPT OF WRITTEN AUTHORIZATION BY THE GEOTECHNICAL ENGINEER THAT THE PREPARED SUBGRADE OR DEEP FOUNDATION SYSTEM HAS BEEN PROPERLY EXECUTED IN ACCORD WITH THE DESIGN AND THAT ANY VARYING CONDITIONS ENCOUNTERED DURING CONSTRUCTION HAVE BEEN EVALUATED AND CORRECTED WHERE NECESSARY TO INSURE PROPER FOUNDATION PERFORMANCE.

02 20 00 EARTHWORK:

CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION BRACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES, AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

02 21 00 STRUCTURAL FILL:

FOUNDATIONS PLACED ON COMPACTED STRUCTURAL FILL, TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. PLACE FILL IN LAYERS OF 8" THICK MAXIMUM AND UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER. FILL TO BE TESTED TO VERIFY COMPACTION.

02 26 00 PROOF-ROLLING:

SHALLOW FOOTINGS SHALL NOT BE LESS THAN 3'-0" SQUARE AND 1'-8" EMBEDMENT OR 2'-0" WIDE STRIP AND 1'-8" EMBEDMENT ON SOIL IMPROVED BY PROOF-ROLLING NOT LESS THAN THREE COVERAGES. FOR FOOTING WIDTHS OR EMBEDMENTS LESS THAN THOSE SPECIFIED. PERFORM ALL ROOF-ROLLING OPERATIONS IN ACCORD WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER IN THE PRESENCE OF THE OWNER'S AUTHORIZED AGENCY.

03 10 00 FORMWORK:

CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347. SEE TYPICAL DETAILS FOR CAMBER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

03 20 00 CONCRETE REINFORCEMENT:

WORK SHALL BE IN ACCORD WITH ACI 318-02, ACI 318R-02, ACI 315-99, ACI 318-02, CRSI "MANUAL OF STANDARD PRACTICE" 2001, CRSI "PLACING REINFORCING BARS" 1997, WIRE REINFORCEMENT INSTITUTE "MANUAL OF STANDARD PRACTICE-STRUCTURAL WELDED WIRE REINFORCEMENT", 2001.
BARS SHALL CONFORM TO ASTM SPECIFICATION A615(S1), GRADE 60.
WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CONCRETE COVER REQUIRED AS FOLLOWS:
A.) CAST AGAINST AND EXPOSED TO EARTH 3"
B.) FORMED, EXPOSED TO EARTH OR WEATHER
#6 AND LARGER 2"
#5 AND SMALLER 1-1/2"
C.) SLABS AND WALLS - NO EARTH OR WEATHER EXPOSURE
#11 AND SMALLER 3/4"
3 HOUR FIRE RATING AND LESS 3/4"
D.) BEAMS - 3/4" (3 HOUR FIRE RATING AND LESS)
E.) COLUMNS - 1" x HOUR RATING OR 2" WHICHEVER IS LESS. (TO MAIN VERTICAL REINFORCING)
LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:
1. ALL LAP SPLICES SHALL BE TENSION CLASS "B" UNLESS OTHER LAP CONDITIONS ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
2. SPLICE LENGTHS SHALL BE SHOWN ON SHOP DRAWINGS.
3. USE GENERAL HOOK BAR DEVELOPMENT LENGTHS UNLESS SPECIAL CONFINEMENT CONDITIONS ARE SATISFIED IN ACCORD WITH ACI 318.

03 30 00 CAST-IN-PLACE CONCRETE:

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301-99. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
ALL STRUCTURAL ELEMENTS F'C = 4,000 PSI UNLESS NOTED OTHERWISE.
COLUMNS: f'c = 4,000 PSI
BEAMS: f'c = 4,000 PSI
ELEVATED SLABS f'c = 4,000 PSI
FOUNDATION f'c = 3,000 PSI
SLAB ON GRADE f'c = 3,500 PSI
ALL CONCRETE MIX DESIGN SUBMITTALS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

03 31 20 CONCRETE TESTING:

OWNER WILL EMPLOY AN INDEPENDENT TESTING LABORATORY TO PERFORM THE FOLLOWING TESTS AND SUBMIT TEST REPORTS ON CAST IN PLACE CONCRETE:

ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." SLUMP SHALL NOT EXCEED LIMIT INDICATED ON APPROVED MIX DESIGN, OR 6" (WHICHEVER IS SMALLER)

ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." CYLINDERS SHALL BE TAKEN FOR EACH MIX DESIGN USED, AND FOR EVERY 50 CUBIC YARDS OF CONCRETE PLACED. TEST CYLINDERS AT THE FOLLOWING AGES:

1 AT 3 DAYS
1 AT 7 DAYS
2 AT 28 DAYS

HOLD ONE RESERVE CYLINDER TO BE TESTED AS REQUESTED BY THE ENGINEER. IF REQUIRED 28 DAY STRENGTH IS ACHIEVED, THE RESERVE CYLINDER MAY BE DISCARDED.

03 60 00 GROUT:

GROUTING IS CLASSIFIED AS "PRECISION GROUTING" FOR SUPPORT OF OPERATING MACHINE BASES, EQUIPMENT SUBJECT TO THERMAL MOVEMENT, AND BASE PLATES, BEARING PLATES, AND EXPANSION BEARINGS EXCEEDING 8" IN LEAST DIMENSION. ALL OTHER GROUTING MAY BE "ORDINARY GROUTING". METALLIC AGGREGATE GROUT MAY BE USED ONLY IN INTERIOR APPLICATIONS NOT EXPOSED TO VIEW IN FINISHED BUILDING AREAS. USE ORDINARY CEMENT GROUT ONLY WHERE SPECIFICALLY NOTED AS "CEMENT GROUT" ON DETAILS. USE NON-SHRINK GROUT FOR ALL OTHER LOCATIONS. PRECISION GROUT SHALL CONFORM TO CRD-C621-80 WHEN MIXED TO FLUID CONSISTENCY OF 22 TO 25 SECONDS (FLOW CONE METHOD, CRD-C611-80).
REQUIRED 28 DAY STRENGTHS SHALL BE AS FOLLOWS:
CEMENT GROUT 1800 PSI
NON-SHRINK GROUT 5000 PSI
PRECISION GROUT 6500 PSI

04 22 00 CONCRETE UNIT MASONRY:

ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH "SPECIFICATION FOR CONCRETE MASONRY CONSTRUCTION", ACI 530.1-02 AND ALL APPLICABLE LOCAL BUILDING CODE PROVISIONS. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C 90, AND REINFORCED WITH #9 GAGE LADDER TYPE HORIZONTAL MASONRY REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "S" MORTAR (1800 PSI ON THE JOB) WITH FULL HEAD AND BED JOINTS. ALL MASONRY CONSTRUCTION TO BE EITHER BOUND BY TIE BEAM, TIE COLUMN MEMBERS OR TIED TO FRAME WITH 16 GAUGE CONTINUOUS DOVETAIL SLOT AND 12 GAUGE DOVETAIL ANCHOR SPACED @ 16" O.C. (TOP AND TWO VERTICAL SIDES).

04 22 10 REINFORCED UNIT MASONRY:

ALL REINFORCED MASONRY CONSTRUCTION SHALL BE IN ACCORD WITH APPLICABLE PROVISIONS OF CONCRETE REINFORCEMENT, CAST-IN-PLACE CONCRETE, AND CONCRETE MASONRY. VERTICAL REINFORCING SHALL ANCHOR INTO SUPPORTING CONCRETE MEMBERS A CLASS "B" LAP LENGTH PLUS 3" OR FULL DEPTH PLUS A STANDARD HOOK. LAPS WITHIN REINFORCED MASONRY SHALL BE 48 BAR DIAMETERS. CONTRACTOR SHALL COORDINATE PLACING OF DOWELS TO ACCOMMODATE MODULE OF MASONRY UNITS. ALL VERTICAL CELLS AND BEAMS WITH REINFORCING SHALL BE FILLED WITH COARSE GROUT CONSISTING OF 3000 PSI CONCRETE WITH #8 COARSE AGGREGATE. USE HIGH-SLUMP (SUPERPLASTICIZED) WHERE HEIGHT OF LIFT EXCEEDS 4'. WHERE HEIGHT OF OPEN CELL EXCEEDS 4', USE HIGH-LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN-OUT OPENING AT THE BOTTOM OF ALL CELLS AND PLACING THE GROUT IN MAXIMUM 4' LIFTS WITH A 30 TO 60 MINUTE DELAY BETWEEN LIFTS. ALL WALLS TO BE REINFORCED WITH #5@48" O.C. MIN. VERTICAL U.N.O.

05 05 50 WELDING:

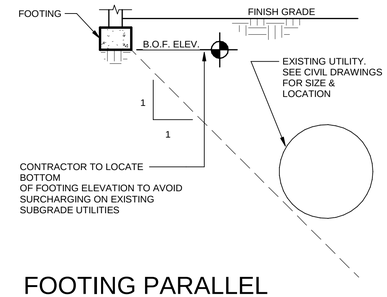
ALL WELDING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE-STEEL;" D1.1 - 2001 AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE A.W.S. SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID PENETRANT INSPECTION CONDUCTED BY AN INDEPENDENT TESTING AGENCY PAID BY THE OWNER.

05 12 00 STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
STRUCTURAL STEEL TO CONFORM TO:
WF SHAPES---------- ASTM A572, GRADE 50 OR A992
SHAPES & PLATES ----- ASTM A36
PIPE ---------- ASTM A 53 GRADE B
TUBES ---------- ASTM A 500 GRADE B
ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS OR WELDING. BOLTING TO BE IN ACCORDANCE WITH RCRBSJ SPECIFICATIONS. ANY CONNECTION NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE SPECIALTY ENGINEER FOR THE FORCES SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. WHERE FORCES ARE NOT PROVIDED DESIGN SHALL BE BASED ON THE MAXIMUM LOAD CAPACITIES OF THE CONNECTING MEMBERS. ALL STEEL AT AND BELOW FINISHED GRADE TO BE FIELD PAINTED AND COVERED WITH A MINIMUM OF 2" CONCRETE. ALL BEAMS BEARING ON CONCRETE TO HAVE A 3/8" X 7 1/2 X 8" BEARING PLATE WITH TWO (2) 1/2" HEADED ANCHOR BOLTS 12" LONG, UNLESS NOTED OTHERWISE.

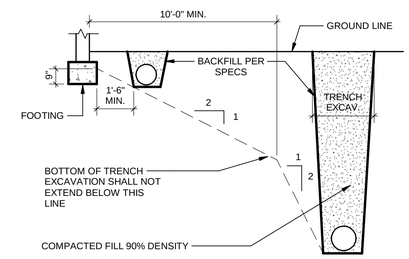
STRUCTURAL SHEET SCHEDULE

NUMBER	NAME	REVISION
S1.101	GENERAL STRUCTURAL NOTES AND DETAILS	
S1.201	STRUCTURAL SECTIONS AND DETAILS	
S1.301	STRUCTURAL SECTIONS AND DETAILS	
S2.101	STRUCTURAL SCHEDULES	
S3.101	FOUNDATION PLAN	
S3.201	ROOF FRAMING PLAN	
S4.101	STRUCTURAL SECTIONS AND DETAILS	



1 / S1.101 FOOTING PARALLEL TO EXISTING UTILITY

SCALE: 3/4" = 1'-0"



NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS

2 / S1.101 EXCAVATION PARALLEL TO FOOTING

SCALE: 3/4" = 1'-0"

PLOWFIELD & ASSOCIATES

R. L. PLOWFIELD & ASSOCIATES, INC.
Structural Engineers
1073 Willa Springs Drive #2061
Winter Springs, FL 32708
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Phone: (407) 657-6657
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plowfieldandassociates.com

SEAL

Robert L. Plowfield, Jr., P.E.
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COMMUNITY SOLUTIONS GROUP

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ORLANDO, FL 32801
407 423-8398
CERTIFICATE OF AUTHORIZATION: EB8951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE
931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AA0003645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	NLC
CHECKED:	RLP
APPROVED:	RLP
REGISTRATION	RLP

SHEET TITLE

PAVILION BUILDING
GENERAL STRUCTURAL NOTES AND DETAILS

SHEET NUMBER

S1.101

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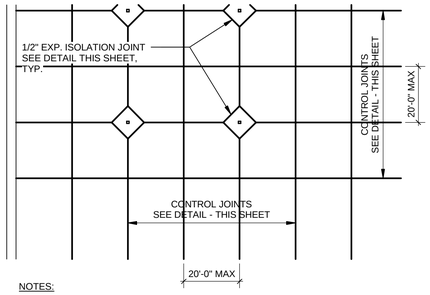


NOTES:

1. CAST SLAB USING LASER SCREED METHOD.

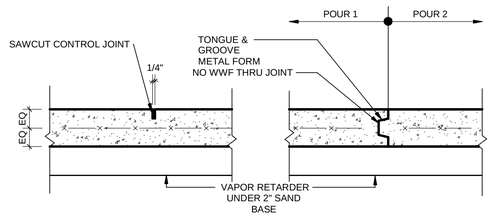
2. DIVIDE SLAB BY CONTROL JOINTS @ CENTER LINE OF COLUMNS & SUBDIVIDED @ A MAXIMUM OF 20'-0" CENTERS.

3. IN AREAS WHERE COLUMNS DO NOT OCCUR, PROVIDE CONTROL JOINTS AS SHOWN

4. SAWCUT JOINTS TO BE COMPLETED WITHIN 24 HOURS OF CONCRETE PLACEMENT

1 / S1.201 CONCRETE SLAB-ON-GRADE

SCALE: 3/4" = 1'-0"



PRE-FORMED STRIP MAY BE USED IN LIEU OF SAWCUT JOINT.

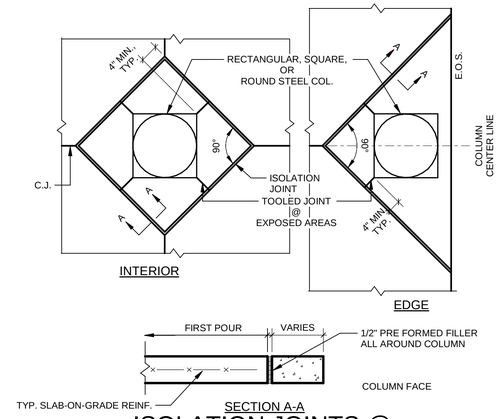
METAL FORM TO BE REMOVED PRIOR TO POUR 2x WHEN USED WITH MECHANICAL SCREEDING.

(A) CONTROL JOINT DETAIL

(B) COLD JOINT DETAIL

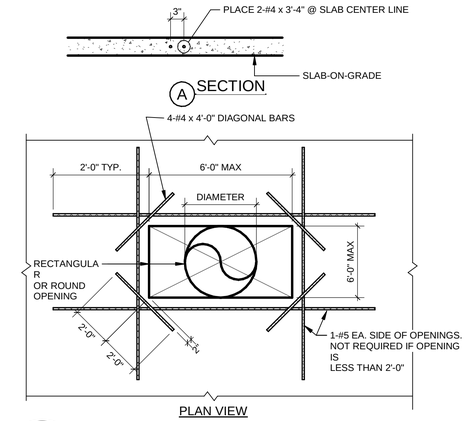
2 / S1.201 SLAB-ON-GRADE JOINT DETAILS

SCALE: 3/4" = 1'-0"



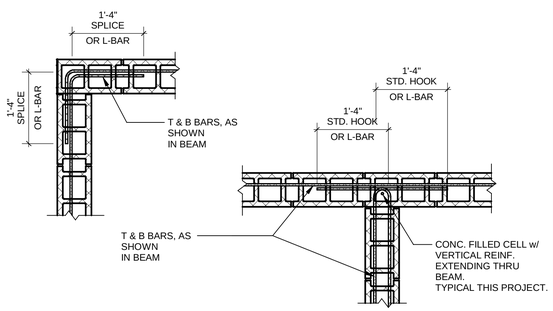
3 / S1.201 ISOLATION JOINTS @ COLUMN SLAB-ON-GRADE

SCALE: 3/4" = 1'-0"



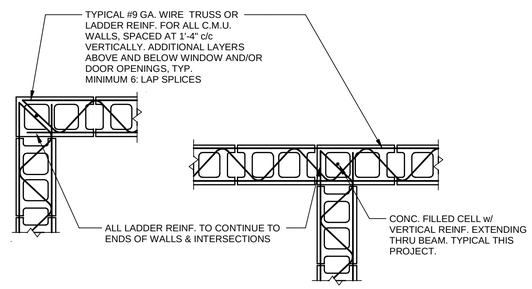
4 / S1.201 OPENING ON SLAB-ON-GRADE

SCALE: 3/4" = 1'-0"



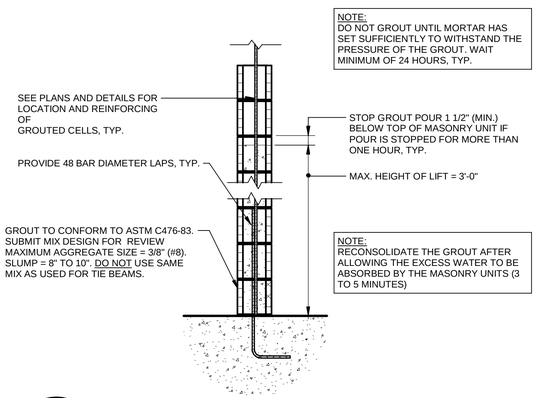
5 / S1.201 BEAM INTERSECTION AND CORNER DETAIL

SCALE: 3/4" = 1'-0"



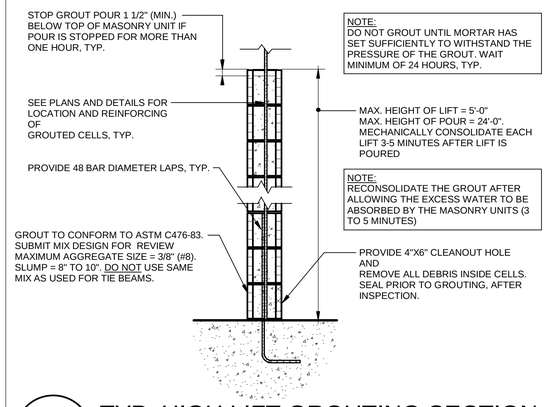
6 / S1.201 CMU WALL INTERSECTION AND CORNER DETAIL

SCALE: 3/4" = 1'-0"



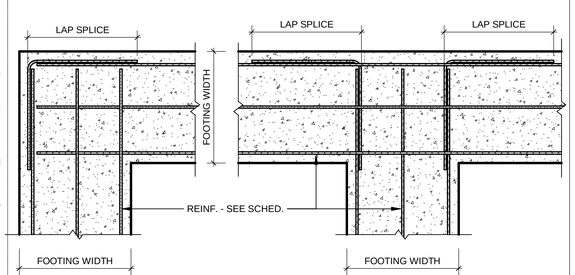
7 / S1.201 TYP. LOW LIFT GROUTING SECTION

SCALE: 3/4" = 1'-0"



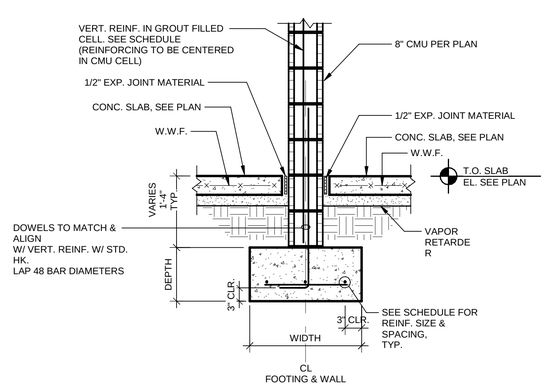
8 / S1.201 TYP. HIGH LIFT GROUTING SECTION

SCALE: 3/4" = 1'-0"



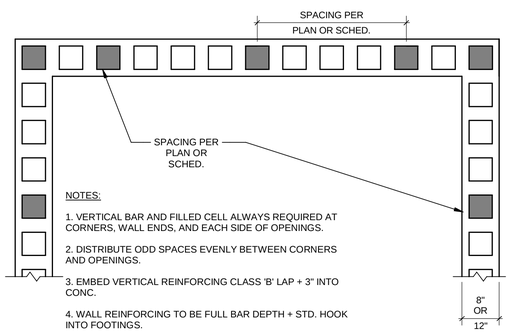
9 / S1.201 FOOTING INTERSECTION

SCALE: 3/4" = 1'-0"



10 / S1.201 TYP. CMU WALL FOOTING

SCALE: 3/4" = 1'-0"



NOTES:

1. VERTICAL BAR AND FILLED CELL ALWAYS REQUIRED AT CORNERS, WALL ENDS, AND EACH SIDE OF OPENINGS.

2. DISTRIBUTE ODD SPACES EVENLY BETWEEN CORNERS AND OPENINGS.

3. EMBED VERTICAL REINFORCING CLASS 'B' LAP + 3" INTO CONC.

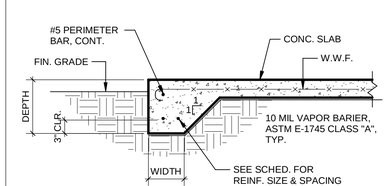
4. WALL REINFORCING TO BE FULL BAR DEPTH + STD. HOOK INTO FOOTINGS.

5. PROVIDE 48 BAR DIAMETER LAPS INTO MASONRY WALLS FIRST COARSE W/ FULL MORTAR BED.

6. LAY MASONRY IN RUNNING BOND.

11 / S1.201 REINFORCED MASONRY WALLS

SCALE: 3/4" = 1'-0"



12 / S1.201 THICKENED EDGE DETAIL

SCALE: 3/4" = 1'-0"

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SEAL

Robert L. Plowfield, Jr., P.E.
FL Registration No. 39759

COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-372-8646 ... AR0017645

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REGISTRATION	RLP

SHEET TITLE

PAVILION BUILDING
STRUCTURAL SECTIONS AND DETAILS

SHEET NUMBER

S1.201

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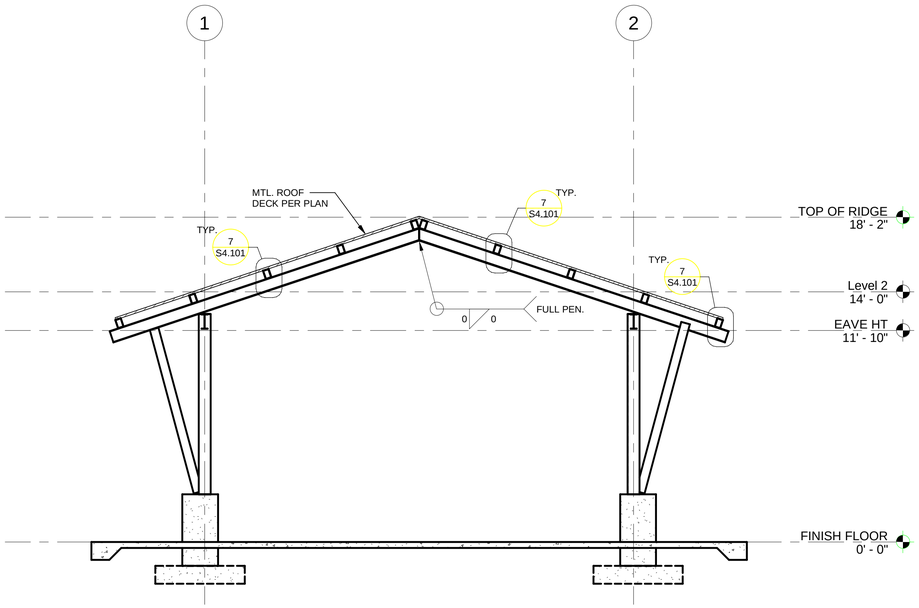
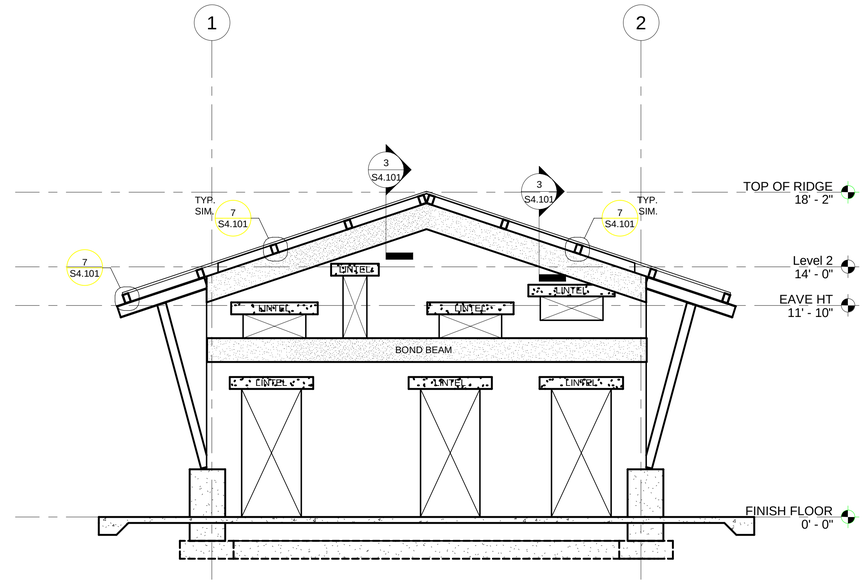


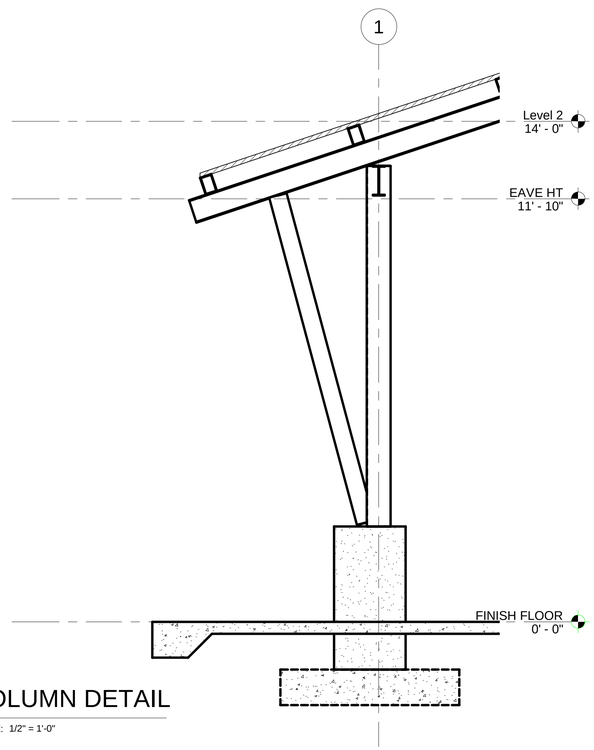
1 / S1.301 BUILDING SECTION

SCALE: 1/4" = 1'-0"



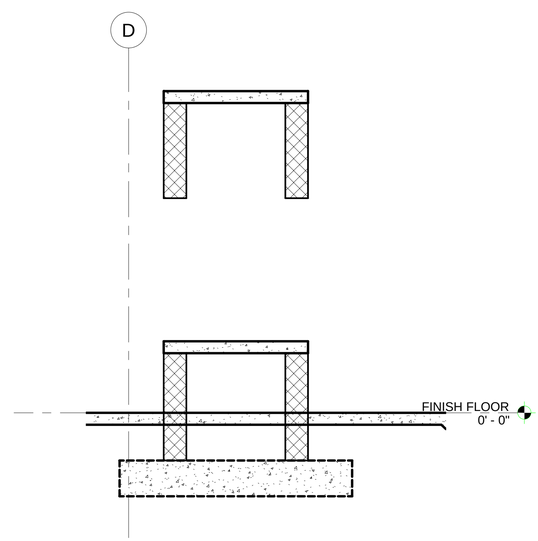
2 / S1.301 ELEVATION

SCALE: 1/4" = 1'-0"



3 / S1.301 COLUMN DETAIL

SCALE: 1/2" = 1'-0"



4 / S1.301 BARBECUE SECTION

SCALE: 1/2" = 1'-0"

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gai consultants

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

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321-972-8445 AR0017645

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SHEET TITLE

PAVILION BUILDING
STRUCTURAL SECTIONS AND DETAILS

SHEET NUMBER

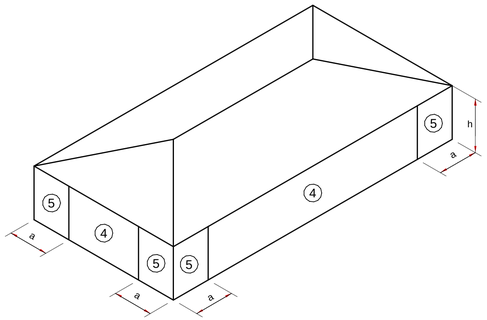
S1.301

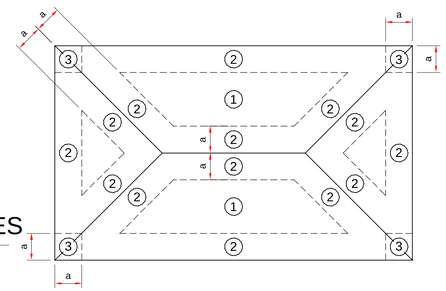
A GAI CONSULTANTS, INC SERVICE GROUP

COMPONENT & CLADDING WIND LOADS			
BASIC WIND SPEED, V(ult) = 140 M.P.H.		MEAN ROOF HEIGHT=	27.0 FT.
ZONE	WIND AREA (S.F.)	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
1	10	16.0	-45.5
1	20	16.0	-42.6
1	50	16.0	-39.7
1	100	16.0	[illegible]
2	10	16.0	[illegible]
2	20	16.0	-68.5
2	50	16.0	-62.8
2	100	16.0	-59.9
3	10	[illegible]	-97.3
3	20	[illegible]	-91.6
3	50	[illegible]	-85.8
3	100	[illegible]	-84.4
4	10	31.1	-31.1
4	20	31.1	-31.1
4	50	28.2	-29.7
4	100	26.8	-28.2
5	10	31.1	-57.0
5	20	31.1	-57.0
5	50	28.2	-51.3
5	100	26.8	-45.5

* END ZONE, a = 8 ft.

** PRESSURES PROVIDED ABOVE ARE UNFACTORED, ULTIMATE LOADS AND MAY BE FACTORED AS ALLOWED BY FBC CHAPTER 1605 "LOAD COMBINATIONS".





1 / S2.101 COMPONENT AND CLADDING WIND PRESSURES

SCALE: N.T.S.

FOUNDATION							
MARK	SIZE		DEPTH	REINFORCEMENT			REMARKS
	LENGTH	WIDTH		BOTTOM	TOP	TRANSVERSE	
F-1	3' - 0"	3' - 0"	12"	UNDER	-------	-------	SPREAD FOOTING
F-2	5' - 0"	5' - 0"	12"	UNDER	-------	-------	SPREAD FOOTING
F-3	9' - 6"	6' - 6"	12"	[illegible]	-------	-------	SPREAD FOOTING
WF-1	CONT.	2' - 0"	12"	[illegible]	-------	#5 @ 12" O.C.	CONT. WALL FOOTING
TE-1	CONT.	12"	16"	CONT.	1 - #5 CONT.	#4 @ 24" O.C.	THICKENED EDGE

TOP OF FOUNDATION AT -1' - 4" TYP. U.N.O.

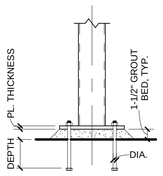
3 / S2.101 FOUNDATION SCHEDULE

SCALE: N.T.S.

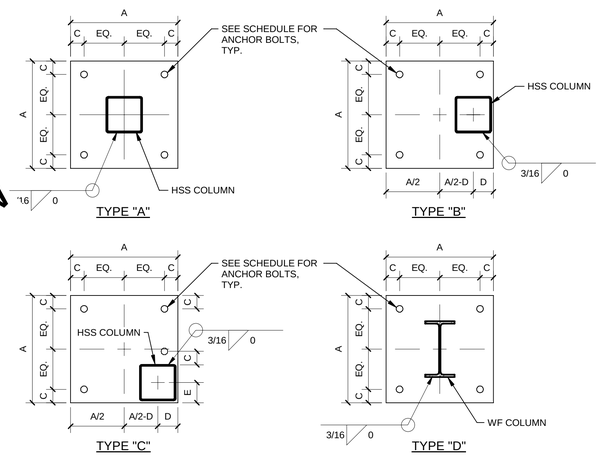
BASE PLATE / ANCHOR BOLT SCHEDULE

COLUMN SIZE	PLATE TYPE	BASE PLATE DIMENSIONS					PLATE THICKNESS	ANCHOR BOLT DIMENSIONS		
		A	B	C	D	E		DIA.	DEPTH	NUM.
HSS6x6	A	12"	----	1½"	----	----	3/4"	1"	8"	4
HSS8x8	A	14"	----	1½"	----	----	3/4"	1"	8"	4
HSS8x6	C	14"	----	1½"	4¼"	3¼"	1"	1¼"	8"	4
HSS6x6	B	12"	----	1½"	3¼"	----	1"	1"	8"	4

NOTE: ALL BASE PLATES SHALL BE SET IN NON-SHRINK GROUT BED (1-1/2") w/
1/8" STEEL LEVELER PLATE OR LEVELER NUTS ON EACH BOLT, TYP.



DETAIL "A"



2 / S2.101 BASE PLATE / ANCHOR BOLT SCHEDULE

SCALE: N.T.S.

MASONRY WALL SCHE

LEVEL	BLOCK SIZE	WA	GROUT	
2nd FLOOR	8"	O.C.		48" O.C.
1st FLOOR		@ 24 " O.C.		24" O.C.

1.) [illegible]E 1900 PSI NET AREA
[illegible] RENGTH OF MASONRY UNITS

4 / S2.101 MASONRY WALL SCHEDULE

SCALE: N.T.S.

UNDER REVIEW

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COMMUNITY SOLUTIONS GROUP

gai consultants

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407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792

321-972-8445 AR0017645

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FL Registration No. 39759

SHEET TITLE

PAVILION BUILDING
STRUCTURAL SCHEDULES

SHEET NUMBER

S2.101

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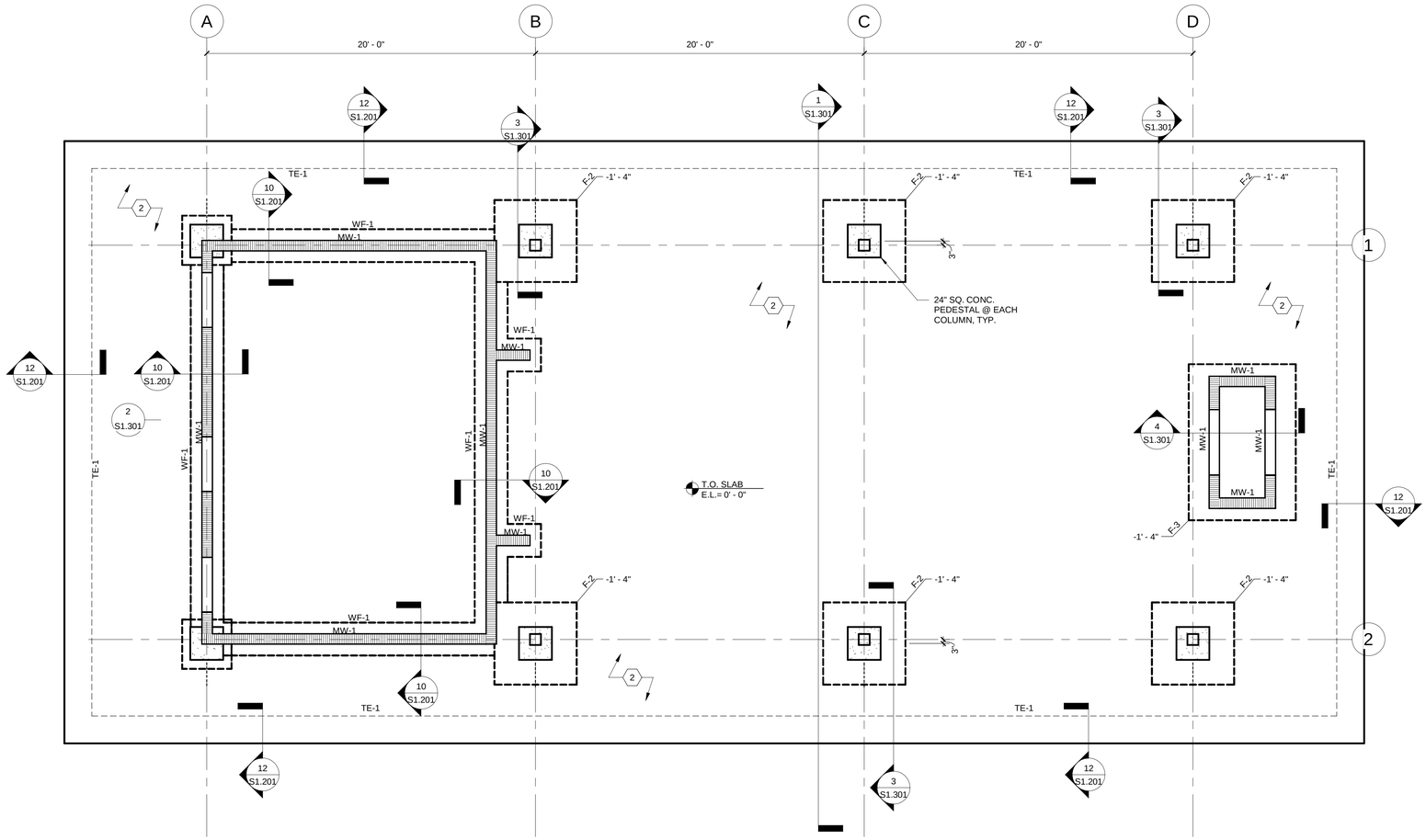

1 / S3.101 FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

HEXAGON NOTES:

1. TOP OF SLAB ELEVATION PER PLAN

2. 4" THICK CONCRETE SLAB-ON-GRADE WITH 6x6-W2.1xW2.1 ON VAPOR RETARDER AT ALL INTERIOR AREAS.

3. PROVIDE #4 x 4'-0" LONG DIAGONAL AT ALL INSIDE (RE-ENTRANT) SLAB CORNERS.

4. PROVIDE #4 x 4'-0" (MINIMUM LENGTH) FOR SLAB PENETRATIONS LARGER THAN 6" DIA. OR 6" x 6" SQUARE. PLACE IN DIAMOND SHAPE PATTERN AS SHOWN. ONE SET OF FOUR MAY ENCOMPASS MORE THAN ONE PENETRATION.

5. FOR SLAB PENETRATIONS GREATER THAN 6" WIDE x 3'-0" LENGTH OR LONGER PROVIDE #5 EACH SIDE OF OPENING REBAR TO BE 12" LONGER THAN PENETRATION LENGTH.

DRAWING NOTES:

1. CONTRACTOR SHALL COORDINATE PAD LOCATIONS WITH/ ELECT., MECH., & PLUMBING, REFERENCE GENERAL NOTES SECTION 01051.

2. ROUTE ALL CHASES UNDER THICKENED SLAB EDGE AND COLUMN FOOTINGS, MAINTAIN A MINIMUM 6" SOIL COVER.

3. CONCRETE CONTRACTOR SHALL GROUT RECESSED THRESHOLDS.

4. SEE SHEET "S2.101" FOR SCHEDULED INFORMATION.

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SEAL

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gai consultants

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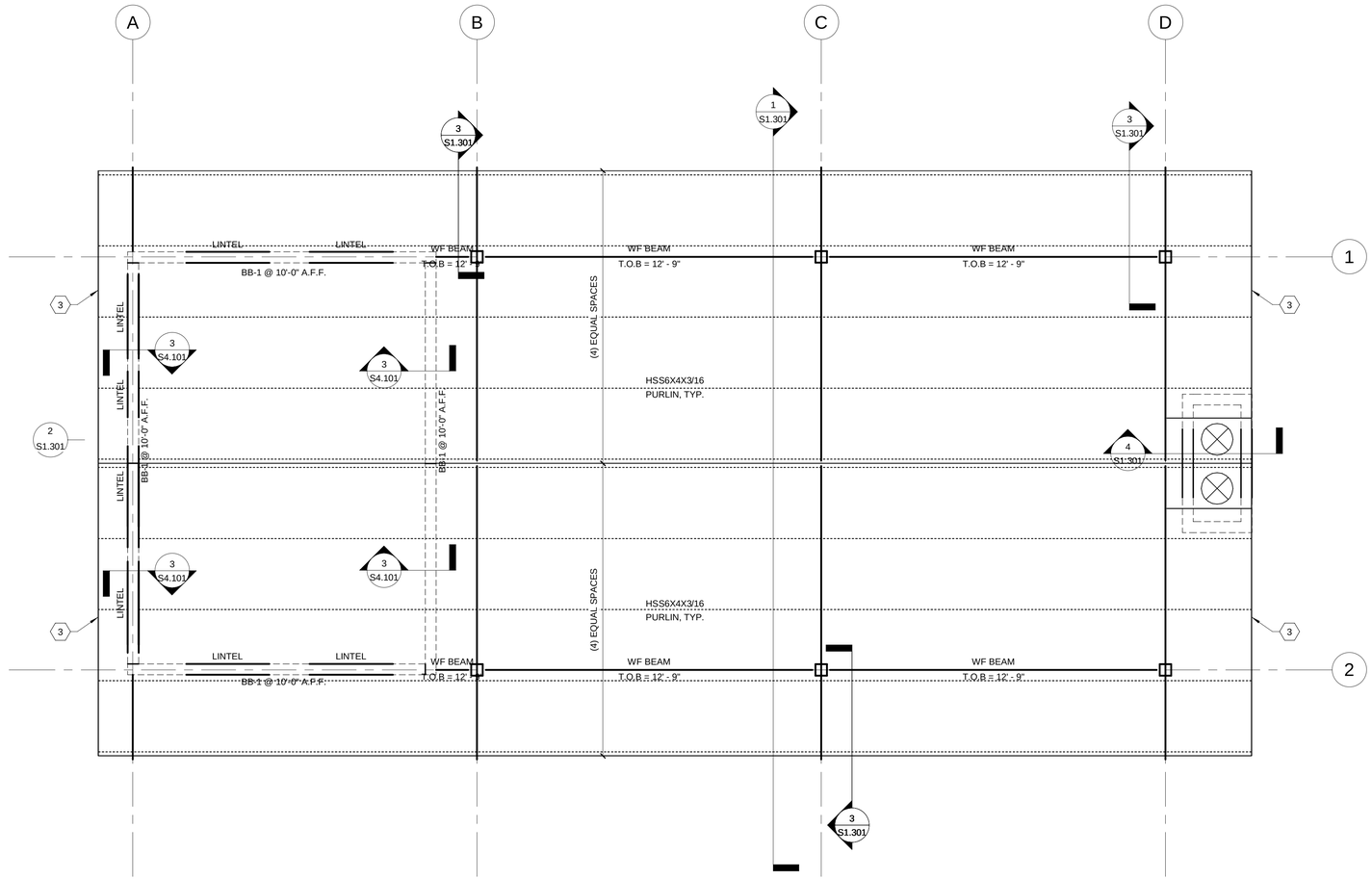
SHEET TITLE

PAVILION BUILDING
FOUNDATION PLAN

SHEET NUMBER

S3.101

A GAI CONSULTANTS, INC SERVICE GROUP



1 / S3.201 ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

HEXAGON NOTES:

1. METAL ROOF DECK: 1.5B22 GA. (VULCRAFT OR EQUAL) 3-SPAN MINIMUM.

2. ROOF DECK ATTACHMENT PATTERNS, SEE DETAIL "2/S1.111" FOR ZONE LOCATIONS: (ON METAL TRUSSES):
   #12 TEK SCREWS @ 12" O.C. PERIMETER, RIDGES, HIPS, & VALLEYS
   #12 TEK SCREWS @ 36/5 @ SUPPORTS
   2-#10 TEK SCREW SIDELAP FASTENERS

3. 2 1/2" x 2 1/2" x 3/16" CONT. ANGLE TO SUPPORT EDGE OF ROOF DECK, WELDED TO TOP OF STEEL BEAMS.

UNDER REVIEW

DRAWING NOTES:

1. COORDINATE ALL STEPS, SLOPES, AND ELEVATIONS w/ ARCHITECTURAL DRAWINGS

2. PROVIDE MINIMUM LINTEL STRENGTH OF 1000 PLF, U.N.O.

3. SEE SHEETS "S2.101" FOR SCHEDULED INFORMATION.

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

PAVILION BUILDING

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8616 AA26001764

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF HOUSEMAN ARCHITECTURE, LLC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, OR DETAILS SHALL BE USED BY OR DISCLOSED TO ANYONE FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF HOUSEMAN ARCHITECTURE, LLC.

REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	NLC
CHECKED:	RLP
APPROVED:	RLP
REGISTRATION	RLP

SHEET TITLE

PAVILION BUILDING
ROOF FRAMING PLAN

SHEET NUMBER

S3.201

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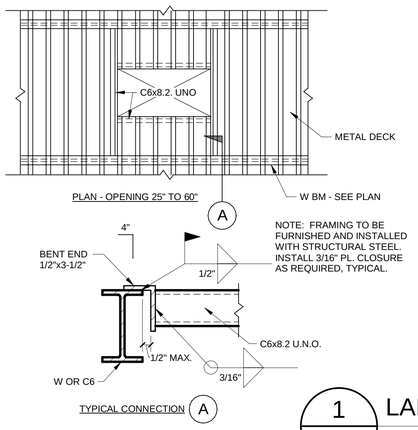
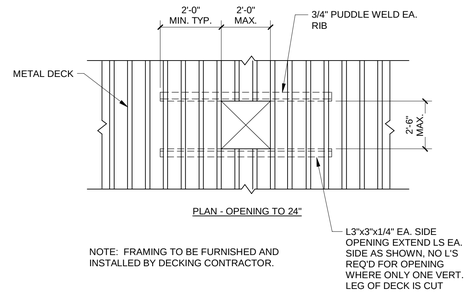


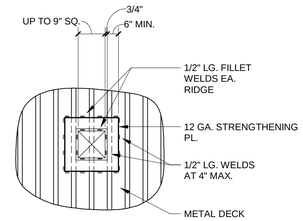
NOTE: FRAMING TO BE FURNISHED AND INSTALLED WITH STRUCTURAL STEEL. INSTALL 3/16" PL. CLOSURE AS REQUIRED, TYPICAL.



NOTE: FRAMING TO BE FURNISHED AND INSTALLED BY DECKING CONTRACTOR.

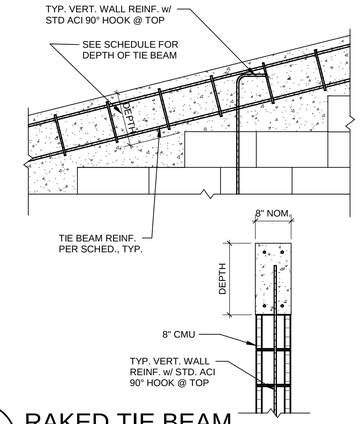
1 / S4.101 LARGE REINFORCED OPENINGS IN METAL DECK

SCALE: 3/4" = 1'-0"



2 / S4.101 SMALL REINFORCED DECK OPENING DETAIL

SCALE: 3/4" = 1'-0"



3 / S4.101 RAKED TIE BEAM

SCALE: 3/4" = 1'-0"

SIMPLE BEAM CONNECTION SCHEDULE			
SHEAR PLATE CONNECTION			
MEMBER DEPTH	# OF BOLTS 3/4" DIA. A325	CONN. PLATE "t"	WELD SIZE "A"
6"	2	5/16"	1/4"
8"-10"	2	5/16"	1/4"
12"-14"	3	5/16"	1/4"
15"-16"	4	3/8"	5/16"
18"	5	3/8"	5/16"
20"-21"	5	1/2"	3/8"
24"	6	1/2"	3/8"
27"	7	1/2"	3/8"
30"-33"	8	5/8"	3/8"
36"	10	5/8"	3/8"

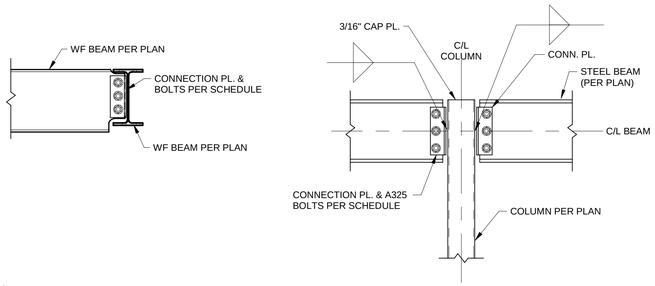
NOTES:

1.) FILLET WELDS SHALL BE AS SHOWN UNLESS A GREATER SIZED IS REQUIRED BY A.I.S.C. TABLE J2.4.

2.) ALL BOLTS TO BE A325 BOLTS (U.N.O.)

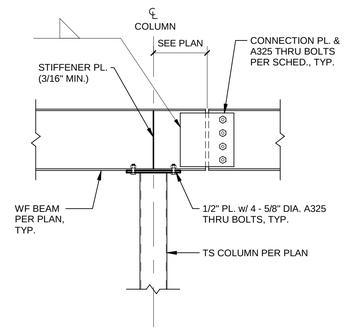
3.) DOUBLE ANGLES MAY BE SUBSTITUTED FOR CONNECTOR PLATES, PROVIDED THEY MEET OR EXCEED THE REQUIREMENTS OF THE A.I.S.C.

4.) ALL CONNECTIONS TO COLUMNS AND ALL CONNECTIONS AT VIBRATION LOAD AREAS TO BE NON-SLIP (A325 S.C.). ALL OTHER CONNECTIONS MAY BE BEARING TYPE (A325 N).



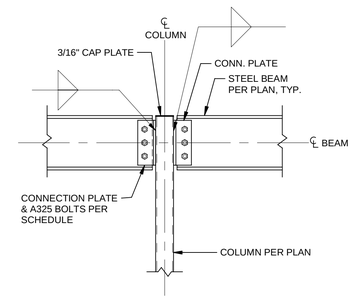
4 / S4.101 SIMPLE BEAM CONNECTION DETAILS

SCALE: 3/4" = 1'-0"



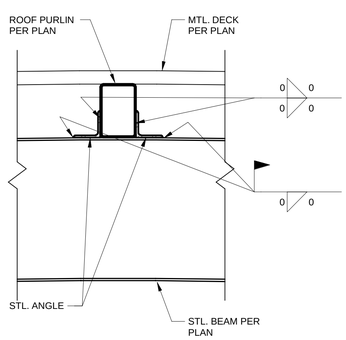
5 / S4.101 BEAM CONNECTOR DETAIL

SCALE: 3/4" = 1'-0"



6 / S4.101 BEAM CONNECTION

SCALE: 3/4" = 1'-0"



7 / S4.101 PURLIN CONNECTION

SCALE: 1 1/2" = 1'-0"

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SHEET TITLE

PAVILION BUILDING
STRUCTURAL SECTIONS AND DETAILS

SHEET NUMBER

S4.101

A GAI CONSULTANTS, INC SERVICE GROUP

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GENERAL STRUCTURAL NOTES

GENERAL DRAWING NOTES:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS FOR THIS PROJECT COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE FLORIDA STATUTES.

DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED, TYPICALLY. IN THE CASE OF DIMENSIONAL CONFLICT ARCHITECTURAL DIMENSIONS GOVERN OVER STRUCTURAL DIMENSIONS, TYPICALLY.

STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT FROM R.L. PLOWFIELD & ASSOCIATES, INC.

SHOP DRAWING REVIEW SHALL REQUIRE TWO (2) WEEKS FOR COMPLETION FROM TIME OF DELIVERY TO R.L. PLOWFIELD & ASSOCIATES, INC. SHOP DRAWINGS SHALL BE CHECKED & "APPROVED" BY GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.

CONTRACTORS SUBMITTING SHOP DRAWINGS TO PROVIDE ONE (1) SEPIA SET AND TWO (2) BLUELINE COPIES FOR MARK-UP.

00 02 00 BUILDING CODES:

FLORIDA BUILDING CODED - SEVENTH EDITION (2020)
ASCE 7-10.
BASIC WIND SPEED Vu=132 MPH AND Vasd=103 MPH.
BUILDING RISK CATEGORY II
BUILDING EXPOSURE "B"
INTERNAL PRESSURE COEFFICIENT, GCpi = +/-0.18 (ENCLOSED)
SEISMIC IMPORTANCE FACTOR, Ie = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS,
Ss=0.079g, S1=0.040g
SITE CLASS D
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS,
Sds=0.084g, Sd1=0.064g
SEISMIC DESIGN CATEGORY = A

00 05 00 STRUCTURAL LOADING:

THE STRUCTURE HAS BEEN DESIGNED IN ACCORD WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWING SPECIFICALLY CALL FOR DIFFERENT LOADING CRITERIA.
GRAVITY LOADING UNIFORM LIVE LOAD:

SLAB ON GRADE AREAS---------- 100 PSF
ROOF ---------- 20 PSF

01 05 10 DRAWING DIMENSIONS AND COORDINATION:

DIMENSIONAL INFORMATION, PRICING, ALL DETAILS AND CONSTRUCTION SHALL BE BASED ON THE ENTIRE SET OF CONTRACT DOCUMENTS. COORDINATE THE REQUIREMENTS OF ALL PROFESSIONALS. USE INFORMATION FROM APPROVED SHOP DRAWINGS TO SUPPLEMENT CONTRACT DOCUMENTS WHERE NECESSARY. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.

01 10 00 SCOPE OF SERVICE:

THE STRUCTURAL ENGINEER OF RECORD HAS DESIGNED AND IS RESPONSIBLE FOR ONLY THE SPECIFIC STRUCTURAL COMPONENTS SHOWN IN THIS SET OF STRUCTURAL CONSTRUCTION DOCUMENTS. IF A SPECIALTY ENGINEER, AS DEFINED BY THE DEPARTMENT OF PROFESSIONAL REGULATION, IS REQUIRED, HIS SERVICES MUST COMPLY WITH THE SCOPE OF SERVICES AS OUTLINED IN THE PROJECT CONSTRUCTION DOCUMENTS.

02 00 00 FOUNDATIONS:

A GEOTECHNICAL ENGINEERING REPORT HAS BEEN PROVIDED BY ANDREYEV ENGINEERING, INC.(AEI), LOCATED AT 4055 ST. JOHN'S PARKWAY, SANFORD, FL 32771. AEI PROJECT NO. GPGT-21-038. DATED MARCH 23, 2021. BASED ON THE REPORT PROVIDED, THE FOLLOWING FOUNDATION SYSTEM WILL BE USED:

SHALLOW SPREAD & STRIP FOOTINGS - ALLOWABLE BEARING= 2,500 PSF

GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR SPECIFYING AND MONITORING ALL TESTING, INSTALLATION, EVALUATION, AND REPORTING RELATED TO THE FOUNDATION SYSTEM, INCLUDING ALL WORKMANSHIP PROVISIONS RELATING TO THE SOIL - STRUCTURE INTERFACE. THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR SPECIFYING THE MATERIALS USED TO CONSTRUCT THE FOUNDATION UNITS AND FOR THE SELECTION OF VARIOUS SIZE UNITS TO SUPPORT THE STRUCTURAL FRAME.

DO NOT PLACE ANY FOOTINGS OR MATS UNTIL RECEIPT OF WRITTEN AUTHORIZATION BY THE GEOTECHNICAL ENGINEER THAT THE PREPARED SUBGRADE OR DEEP FOUNDATION SYSTEM HAS BEEN PROPERLY EXECUTED IN ACCORD WITH THE DESIGN AND THAT ANY VARYING CONDITIONS ENCOUNTERED DURING CONSTRUCTION HAVE BEEN EVALUATED AND CORRECTED WHERE NECESSARY TO INSURE PROPER FOUNDATION PERFORMANCE.

02 20 00 EARTHWORK:

CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION BRACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES, AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

02 21 00 STRUCTURAL FILL:

FOUNDATIONS PLACED ON COMPACTED STRUCTURAL FILL, TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. PLACE FILL IN LAYERS THE 8" THICK MAXMUM AND UNDER DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER. FILL TO BE TESTED TO VERIFY COMPACTION.

02 26 00 PROOF-ROLLING:

SHALLOW FOOTINGS SHALL NOT BE LESS THAN 3'-0" SQUARE AND 1'-8" EMBEDMENT OR 2'-0" WIDE STRIP AND 1'-8" EMBEDMENT ON SOIL IMPROVED BY PROOF-ROLLING NOT LESS THAN THREE COVERAGES. FOR FOOTING WIDTHS OR EMBEDMENTS LESS THAN THOSE SPECIFIED. PERFORM ALL ROOF-ROLLING OPERATIONS IN ACCORD WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER IN THE PRESENCE OF THE OWNER'S AUTHORIZED AGENCY.

03 10 00 FORMWORK:

CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347. SEE TYPICAL DETAILS FOR CAMBER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

03 20 00 CONCRETE REINFORCEMENT:

WORK SHALL BE IN ACCORD WITH ACI 318-02, ACI 318R-02, ACI 315-99, ACI 318-02, CRSI "MANUAL OF STANDARD PRACTICE" 2001, CRSI "PLACING REINFORCING BARS" 1997, WIRE REINFORCEMENT INSTITUTE "MANUAL OF STANDARD PRACTICE-STRUCTURAL WELDED WIRE REINFORCEMENT", 2001.
BARS SHALL CONFORM TO ASTM SPECIFICATION A615(S1), GRADE 60.
WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CONCRETE COVER REQUIRED AS FOLLOWS:
A.) CAST AGAINST AND EXPOSED TO EARTH 3"
B.) FORMED, EXPOSED TO EARTH OR WEATHER
#6 AND LARGER 2"
#5 AND SMALLER 1-1/2"
C.) SLABS AND WALLS - NO EARTH OR WEATHER EXPOSURE
#11 AND SMALLER 3/4"
3 HOUR FIRE RATING AND LESS 3/4"
D.) BEAMS - 3/4" (3 HOUR FIRE RATING AND LESS)
E.) COLUMNS - 1" x HOUR RATING OR 2" WHICHEVER IS LESS. (TO MAIN VERTICAL REINFORCING)
LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:
1. ALL LAP SPLICES SHALL BE TENSION CLASS "B" UNLESS OTHER LAP CONDITIONS ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
2. SPLICE LENGTHS SHALL BE SHOWN ON SHOP DRAWINGS.
3. USE GENERAL HOOK BAR DEVELOPMENT LENGTHS UNLESS SPECIAL CONFINEMENT CONDITIONS ARE SATISFIED IN ACCORD WITH ACI 318.

03 30 00 CAST-IN-PLACE CONCRETE:

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301-99. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
ALL STRUCTURAL ELEMENTS F'C = 4,000 PSI UNLESS NOTED OTHERWISE.
COLUMNS: f'c = 4,000 PSI
BEAMS: f'c = 4,000 PSI
ELEVATED SLABS f'c = 4,000 PSI
FOUNDATION f'c = 3,000 PSI
SLAB ON GRADE f'c = 3,500 PSI
ALL CONCRETE MIX DESIGN SUBMITTALS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

03 31 20 CONCRETE TESTING:

OWNER WILL EMPLOY AN INDEPENDENT TESTING LABORATORY TO PERFORM THE FOLLOWING TESTS AND SUBMIT TEST REPORTS ON CAST IN PLACE CONCRETE:

ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." SLUMP SHALL NOT EXCEED LIMIT INDICATED ON APPROVED MIX DESIGN, OR 6" (WHICHEVER IS SMALLER)

ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." CYLINDERS SHALL BE TAKEN FOR EACH MIX DESIGN USED, AND FOR EVERY 50 CUBIC YARDS OF CONCRETE PLACED. TEST CYLINDERS AT THE FOLLOWING AGES:

1 AT 3 DAYS
1 AT 7 DAYS
2 AT 28 DAYS

HOLD ONE RESERVE CYLINDER TO BE TESTED AS REQUESTED BY THE ENGINEER. IF REQUIRED 28 DAY STRENGTH IS ACHIEVED, THE RESERVE CYLINDER MAY BE DISCARDED.

03 60 00 GROUT:

GROUTING IS CLASSIFIED AS "PRECISION GROUTING" FOR SUPPORT OF OPERATING MACHINE BASES, EQUIPMENT SUBJECT TO THERMAL MOVEMENT, AND BASE PLATES, BEARING PLATES, AND EXPANSION BEARINGS EXCEEDING 8" IN LEAST DIMENSION. ALL OTHER GROUTING MAY BE "ORDINARY GROUTING". METALLIC AGGREGATE GROUT MAY BE USED ONLY IN INTERIOR APPLICATIONS NOT EXPOSED TO VIEW IN FINISHED BUILDING AREAS. USE ORDINARY CEMENT GROUT ONLY WHERE SPECIFICALLY NOTED AS "CEMENT GROUT" ON DETAILS. USE NON-SHRINK GROUT FOR ALL OTHER LOCATIONS. PRECISION GROUT SHALL CONFORM TO CRD-C621-80 WHEN MIXED TO FLUID CONSISTENCY OF 22 TO 25 SECONDS (FLOW CONE METHOD, CRD-C611-80).
REQUIRED 28 DAY STRENGTHS SHALL BE AS FOLLOWS:
CEMENT GROUT 1800 PSI
NON-SHRINK GROUT 5000 PSI
PRECISION GROUT 6500 PSI

04 22 00 CONCRETE UNIT MASONRY:

ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH "SPECIFICATION FOR CONCRETE MASONRY CONSTRUCTION", ACI 530.1-02 AND ALL APPLICABLE LOCAL BUILDING CODE PROVISIONS. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C 90, AND REINFORCED WITH #9 GAGE LADDER TYPE HORIZONTAL MASONRY REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "S" MORTAR (1800 PSI ON THE JOB) WITH FULL HEAD AND BED JOINTS. ALL MASONRY CONSTRUCTION TO BE EITHER BOUND BY TIE BEAM, TIE COLUMN MEMBERS OR TIED TO FRAME WITH 16 GAUGE CONTINUOUS DOVETAIL SLOT AND 12 GAUGE DOVETAIL ANCHOR SPACED @ 16" O.C. (TOP AND TWO VERTICAL SIDES).

04 22 10 REINFORCED UNIT MASONRY:

ALL REINFORCED MASONRY CONSTRUCTION SHALL BE IN ACCORD WITH APPLICABLE PROVISIONS OF CONCRETE REINFORCEMENT, CAST-IN-PLACE CONCRETE, AND CONCRETE MASONRY. VERTICAL REINFORCING SHALL ANCHOR INTO SUPPORTING CONCRETE MEMBERS A CLASS "B" LAP LENGTH PLUS 3" OR FULL DEPTH PLUS A STANDARD HOOK. LAPS WITHIN REINFORCED MASONRY SHALL BE 48 BAR DIAMETERS. CONTRACTOR SHALL COORDINATE PLACING OF DOWELS TO ACCOMMODATE MODULE OF MASONRY UNITS. ALL VERTICAL CELLS AND BEAMS WITH REINFORCING SHALL BE FILLED WITH COARSE GROUT CONSISTING OF 3000 PSI CONCRETE WITH #8 COARSE AGGREGATE. USE HIGH-SLUMP (SUPERPLASTICIZED) WHERE HEIGHT OF LIFT EXCEEDS 4'. WHERE HEIGHT OF OPEN CELL EXCEEDS 4', USE HIGH-LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN-OUT OPENING AT THE BOTTOM OF ALL CELLS AND PLACING THE GROUT IN MAXIMUM 4' LIFTS WITH A 30 TO 60 MINUTE DELAY BETWEEN LIFTS. ALL WALLS TO BE REINFORCED WITH #5@48" O.C. MIN. VERTICAL U.N.O.

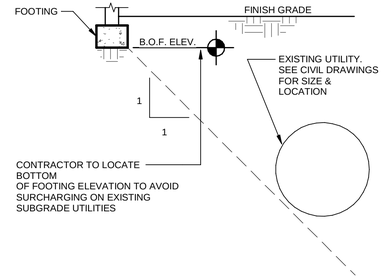
05 05 50 WELDING:

ALL WELDING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE-STEEL;" D1.1 - 2001 AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE A.W.S. SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID PENETRANT INSPECTION CONDUCTED BY AN INDEPENDENT TESTING AGENCY PAID BY THE OWNER.

05 12 00 STRUCTURAL STEEL:

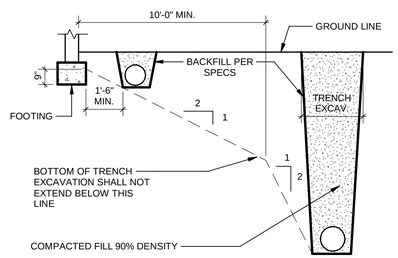
ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
STRUCTURAL STEEL TO CONFORM TO:
WF SHAPES---------- ASTM A572, GRADE 50 OR A992
SHAPES & PLATES ----- ASTM A36
PIPE ---------- ASTM A 53 GRADE B
TUBES ---------- ASTM A 500 GRADE B
ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS OR WELDING. BOLTING TO BE IN ACCORDANCE WITH RCRBSJ SPECIFICATIONS. ANY CONNECTION NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE SPECIALTY ENGINEER FOR THE FORCES SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. WHERE FORCES ARE NOT PROVIDED DESIGN SHALL BE BASED ON THE MAXIMUM LOAD CAPACITIES OF THE CONNECTING MEMBERS. ALL STEEL AT AND BELOW FINISHED GRADE TO BE FIELD PAINTED AND COVERED WITH A MINIMUM OF 2" CONCRETE. ALL BEAMS BEARING ON CONCRETE TO HAVE A 3/8" X 71/2 X 8" BEARING PLATE WITH TWO (2) 1/2" HEADED ANCHOR BOLTS 12" LONG, UNLESS NOTED OTHERWISE.

STRUCTURAL SHEET SCHEDULE		
NUMBER	NAME	REVISION
S1.101	GENERAL STRUCTURAL NOTES AND DETAILS	
S1.201	STRUCTURAL SECTIONS AND DETAILS	
S2.101	STRUCTURAL SCHEDULES	
S3.101	FOUNDATION PLAN	
S3.201	ROOF FRAMING PLAN	
S4.101	STRUCTURAL SECTIONS AND DETAILS	



1 / S1.101 FOOTING PARALLEL TO EXISTING UTILITY

SCALE: 3/4" = 1'-0"



NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS

2 / S1.101 EXCAVATION PARALLEL TO FOOTING

SCALE: 3/4" = 1'-0"

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407 423-8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK
AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE
931 S. SEMORAN BLVD. #204B WINTER PARK, FL 32792
321-972-8446 AR0017645

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	NLC
CHECKED:	RLP
APPROVED:	RLP
REGISTRATION	RLP

SHEET TITLE

AMPHITHEATER
GENERAL STRUCTURAL NOTES AND DETAILS

SHEET NUMBER

S1.101

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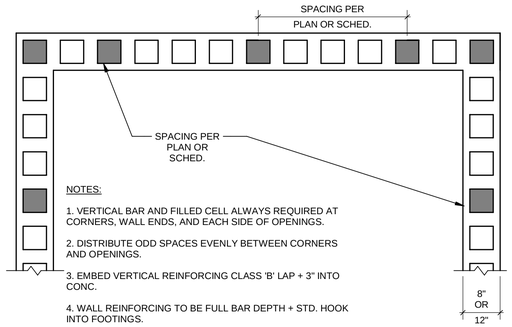


NOTES:

1. VERTICAL BAR AND FILLED CELL ALWAYS REQUIRED AT CORNERS, WALL ENDS, AND EACH SIDE OF OPENINGS.

2. DISTRIBUTE ODD SPACES EVENLY BETWEEN CORNERS AND OPENINGS.

3. EMBED VERTICAL REINFORCING CLASS 'B' LAP + 3" INTO CONC.

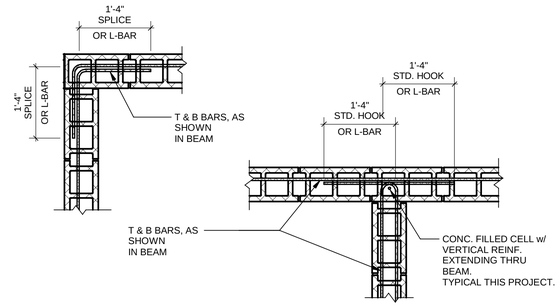
4. WALL REINFORCING TO BE FULL BAR DEPTH + STD. HOOK INTO FOOTINGS.

5. PROVIDE 48 BAR DIAMETER LAPS INTO MASONRY WALLS FIRST COARSE W/ FULL MORTAR BED.

6. LAY MASONRY IN RUNNING BOND.

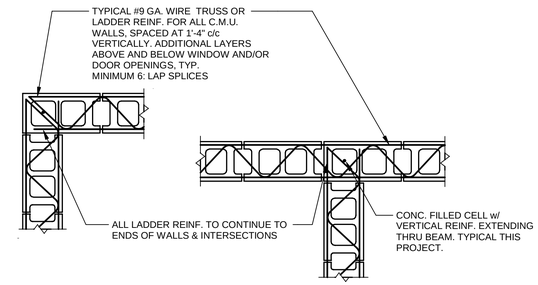
1 / S1.201 REINFORCEMENTED MASONRY WALLS

SCALE: 3/4" = 1'-0"



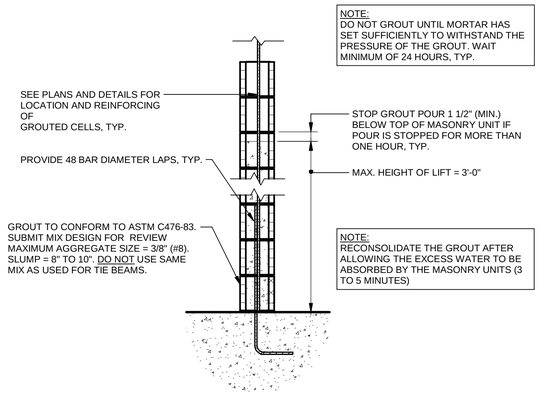
2 / S1.201 BEAM INTERSECTION AND CORNER DETAIL

SCALE: 3/4" = 1'-0"



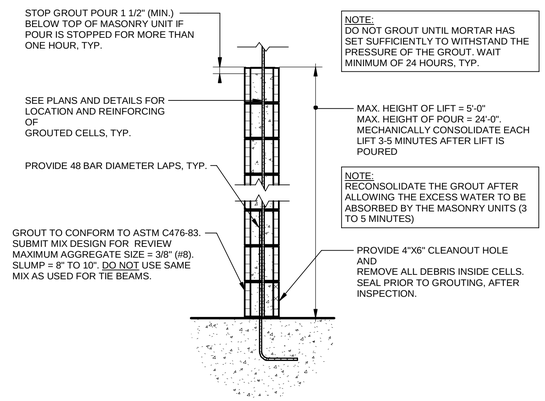
3 / S1.201 CMU WALL INTERSECTION AND CORNER DETAIL

SCALE: 3/4" = 1'-0"



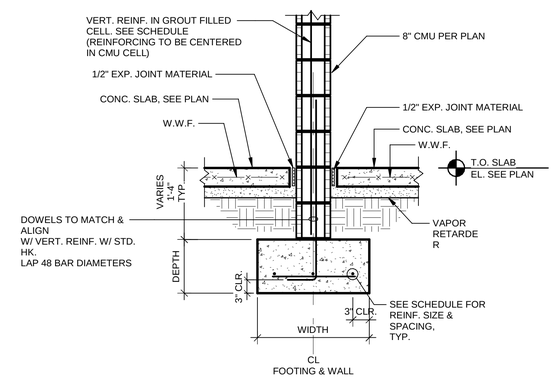
4 / S1.201 TYPICAL LOW LIFT GROUTING SECTION

SCALE: 3/4" = 1'-0"



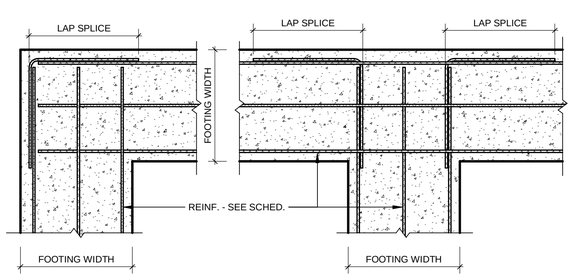
5 / S1.201 TYPICAL HIGH LIFT GROUTING SECTION

SCALE: 3/4" = 1'-0"



6 / S1.201 TYP. INTERIOR WALL FOOTING

SCALE: 3/4" = 1'-0"



7 / S1.201 FOOTING INTERSECTION

SCALE: 3/4" = 1'-0"

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PROJECT

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AMPHITHEATER

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MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

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SHEET TITLE

AMPHITHEATER
STRUCTURAL SECTIONS
AND DETAILS

SHEET NUMBER

S1.201

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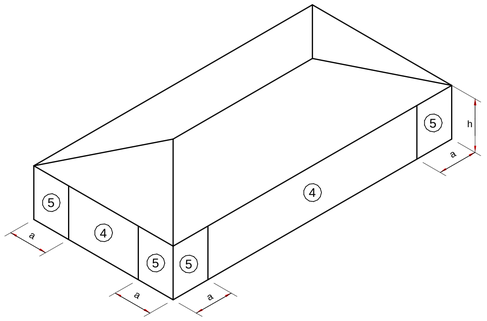
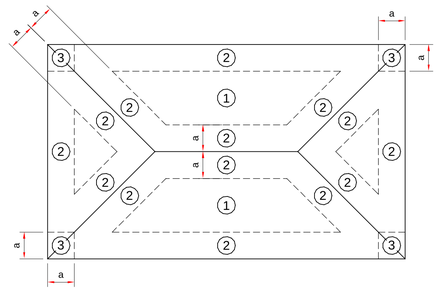
COMPONENT & CLADDING WIND LOADS			
BASIC WIND SPEED, V(ult) = 140 M.P.H.		MEAN ROOF HEIGHT=	27.0 FT.
ZONE	WIND AREA (S.F.)	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
1	10	16.0	-45.5
1	20	16.0	-42.6
1	50	16.0	-39.7
1	100	16.0	-36.9
2	10	16.0	-71.4
2	20	16.0	-68.5
2	50	16.0	-62.8
2	100	[illegible]	-59.9
3	10	[illegible]	-97.3
3	20	[illegible]	-91.6
3	50	[illegible]	-85.8
3	100	16.0	-84.4
4	10	31.1	-31.1
4	[illegible]	31.1	-31.1
4	[illegible]	28.2	-29.7
4	[illegible]	26.8	-28.2
5	10	31.1	-57.0
5	20	31.1	-57.0
5	50	28.2	-51.3
5	100	26.8	-45.5

* END ZONE, a = 8 ft.

** PRESSURES PROVIDED ABOVE ARE UNFACTORED, ULTIMATE LOADS AND MAY BE FACTORED AS ALLOWED BY FBC CHAPTER 1605 "LOAD COMBINATIONS".





1 / S2.101 COMPONENT AND CLADDING WIND PRESSURES

SCALE: 12" = 1'-0"

FOUNDATI[illegible]E								
MARK	SIZE		DEPTH	[illegible]	[illegible]ORCEMENT		REMARKS
	LENGTH	WIDTH		BO[illegible]	TOP	TRANSVERSE	
F-1	8' - 0"	8' - 0"	12"	UND[illegible]	-------	-------	SPREAD FOOTING
F-2	18' - 0"	6' - 0"	12"	U[illegible] [illegible]W	-------	-------	SPREAD FOOTING

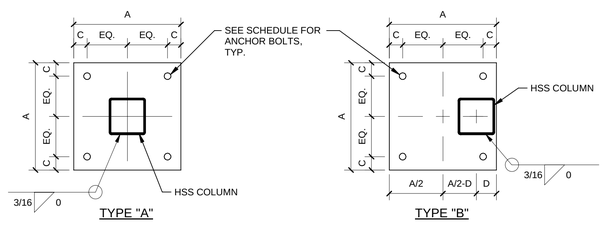
TOP OF FOUNDATION AT -4' - 0", TYP. U.N.O.

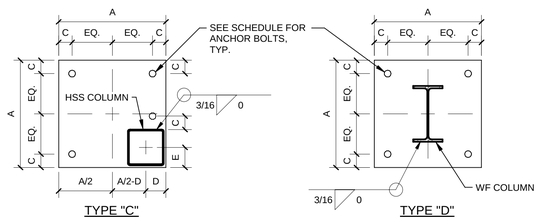
2 / S2.101 FOUNDATION SCHEDULE

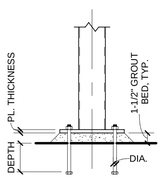
SCALE: N.T.S.

BASE PLATE / ANCHOR BOLT SCHEDULE									
COLUMN SIZE	PLATE TYPE	BASE PLATE DIMENSIONS					PLATE THICKNESS	[illegible]	BOLT [illegible]NS.
		A	B	C	D	E			NUM.
HSS6x6	A	12"	----	1½"	----	----	3/4"	[illegible]	4
HSS8x8	A	14"	----	1½"	----	----	3/4"	[illegible] 8"	4
HSS8x6	C	14"	----	1½"	4¼"	3¼"	[illegible]/4"	8"	4
HSS6x6	B	12"	----	1½"	3¼"	----	1"	8"	4

NOTE: ALL BASE PLATES SHALL BE SET IN NON-SHR[illegible] (1-1/2") w/ 1/8" STEEL LEVELER PLATE OR LEVELER NUTS [illegible] TYP.







DETAIL "A"

3 / S2.101 BASE PLATE / ANCHOR BOLT SCHEDULE

SCALE: 3/4" = 1'-0"

MASONRY WALL SCHEDULE			
LEVEL	BLOCK SIZE	WALL TYPE "MW-1"	
		REINFORCING	GROUT
1st FLOOR	8"CMU	#5 @ 48 " O.C.	48" O.C.

1.) f'm = 1500 PSI USE 1900 PSI NET AREA
COMPRESSIVE STRENGTH OF MASONRY UNITS

4 / S2.101 MASONRY WALL SCHEDULE

SCALE: 3/4" = 1'-0"

UNDER REVIEW

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gai consultants

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

AMPHITHEATER

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE
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FL Registration No. 39759

SHEET TITLE

AMPHITHEATER
STRUCTURAL SCHEDULES

SHEET NUMBER

S2.101

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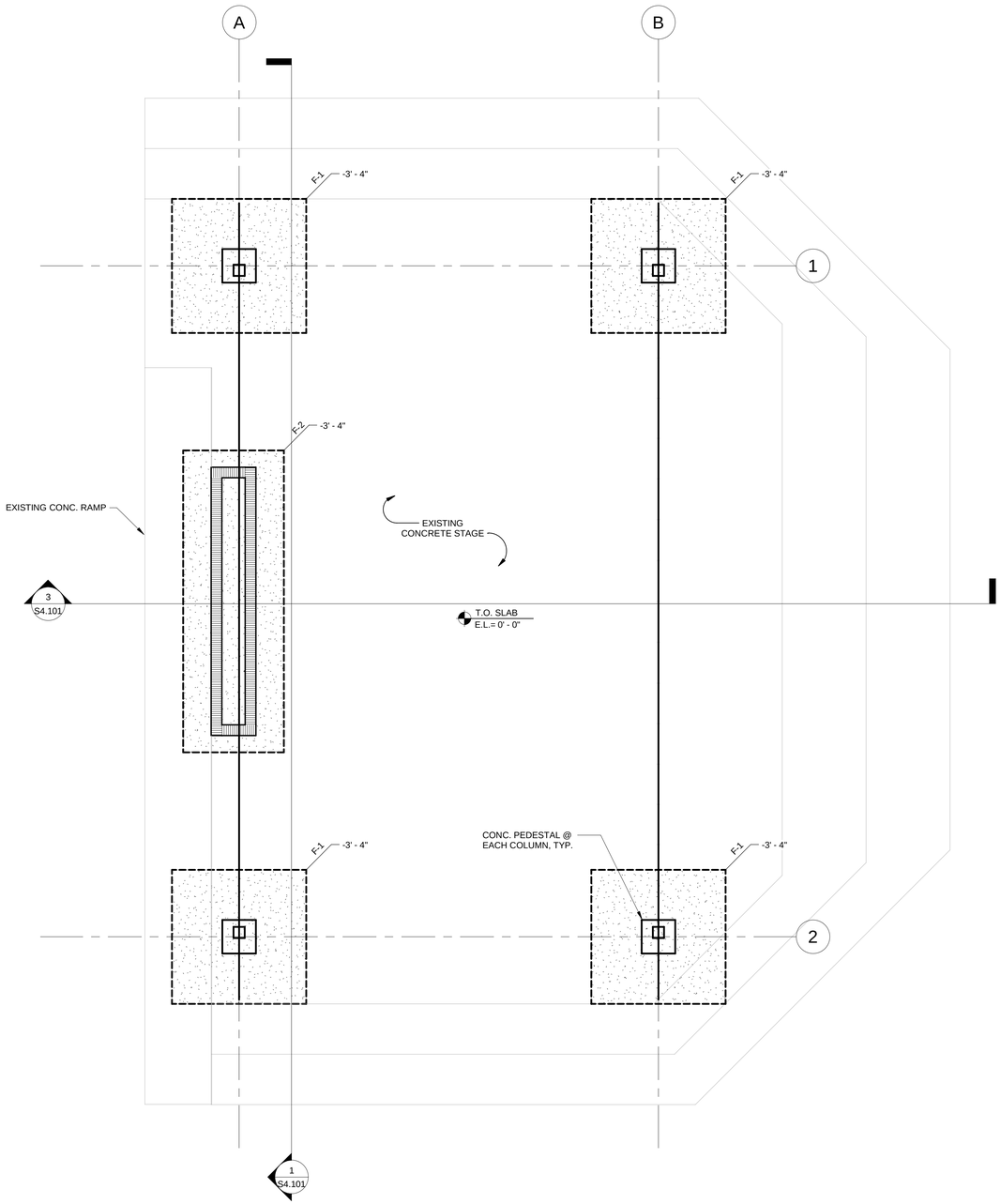

1 / S3.101 FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

HEXAGON NOTES:

1. TOP OF SLAB ELEVATION PER PLAN

DRAWING NOTES:

1. CONTRACTOR SHALL COORDINATE PAD LOCATIONS WITH/ ELECT., MECH., & PLUMBING, REFERENCE GENERAL NOTES SECTION 01051.

2. ROUTE ALL CHASES UNDER THICKENED SLAB EDGE AND COLUMN FOOTINGS, MAINTAIN A MINIMUM 6" SOIL COVER.

3. SEE SHEET "S2.101" FOR SCHEDULED INFORMATION.

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60%
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PLANS

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HOUSEMAN
ARCHITECTURE

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SHEET TITLE

AMPHITHEATER
FOUNDATION PLAN

SHEET NUMBER

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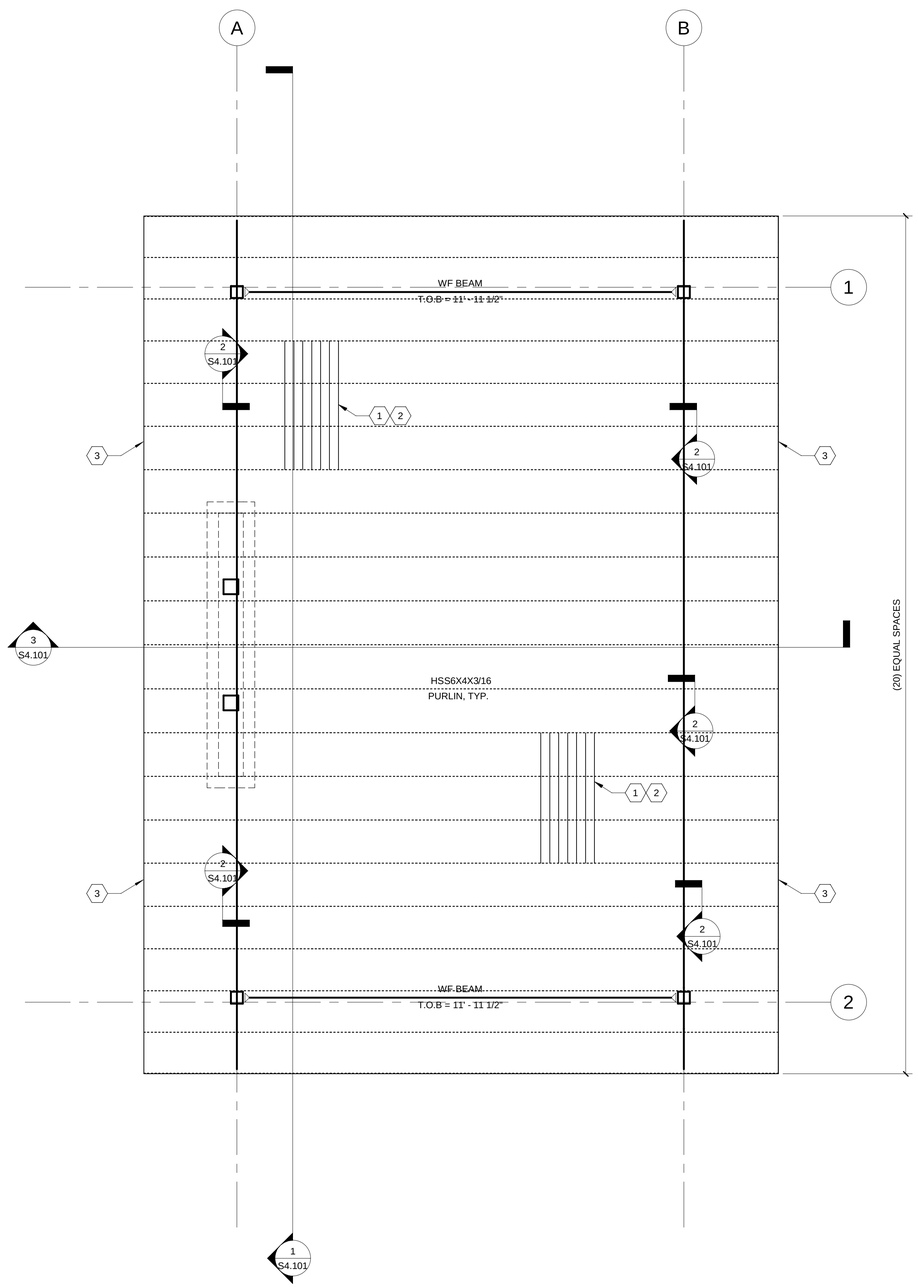

1 / S3.201 ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

HEXAGON NOTES:

1. METAL ROOF DECK: 1.5B [illegible], (VULCRAFT OR EQUAL) 3-SPAN MINIMUM.

2. ROOF DECK ATTACH[illegible] PATTERNS, SEE DETAIL "2/S1.111" FOR ZONE LOCATIONS: (ON METAL TRUSSES):
   #12 TEK SCR[illegible] @ 12" O.C. PERIMETER, RIDGES, HIPS, & VALLEYS
   #12 TEK SC[illegible]S @ 36/5 @ SUPPORTS
   2-#10 TE[illegible]EW SIDELAP FASTENERS

3. 2 1/2" x 2 1/2" x 3/16" CONT. ANGLE TO SUPPORT EDGE OF ROOF DECK, WELDED TO TOP OF STEEL BEAMS.

UNDER REVIEW

DRAWING NOTES:

1. COORDINATE ALL STEPS, SLOPES, AND ELEVATIONS w/ ARCHITECTURAL DRAWINGS

2. SEE SHEET " S2.101" FOR SCHEDULED INFORMATION.

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CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

SHEET TITLE

AMPHITHEATER
ROOF FRAMING PLAN

SHEET NUMBER

S3.201

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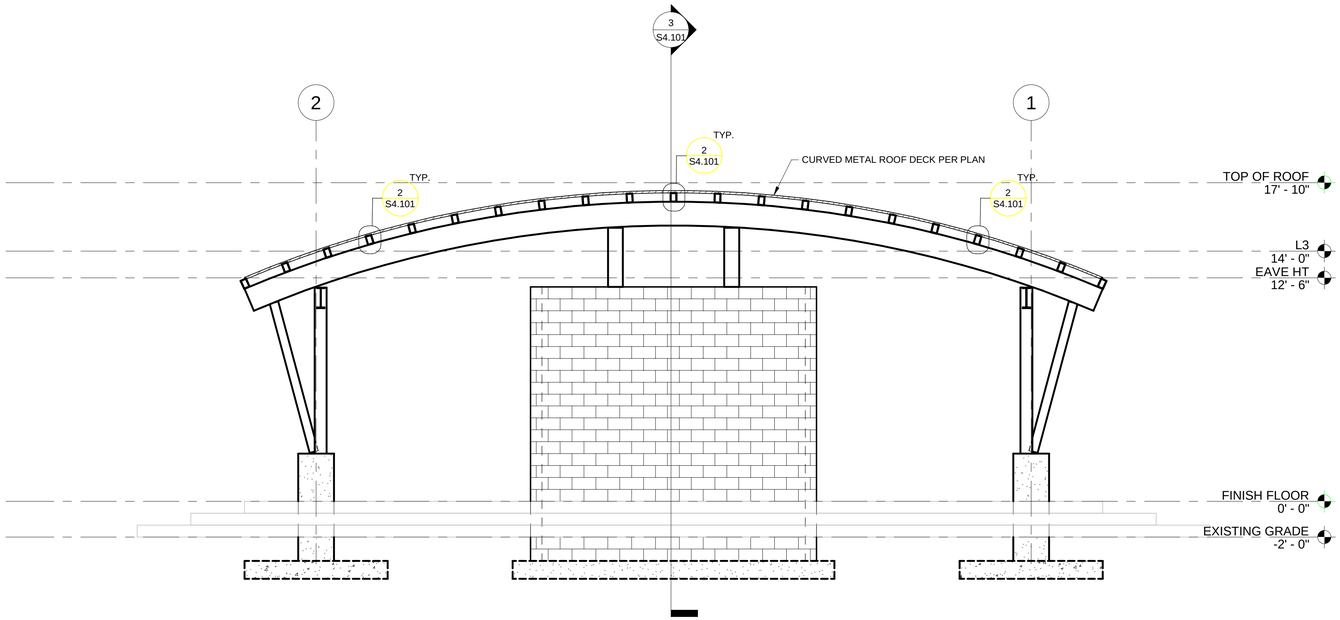
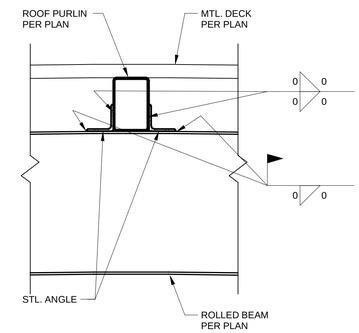


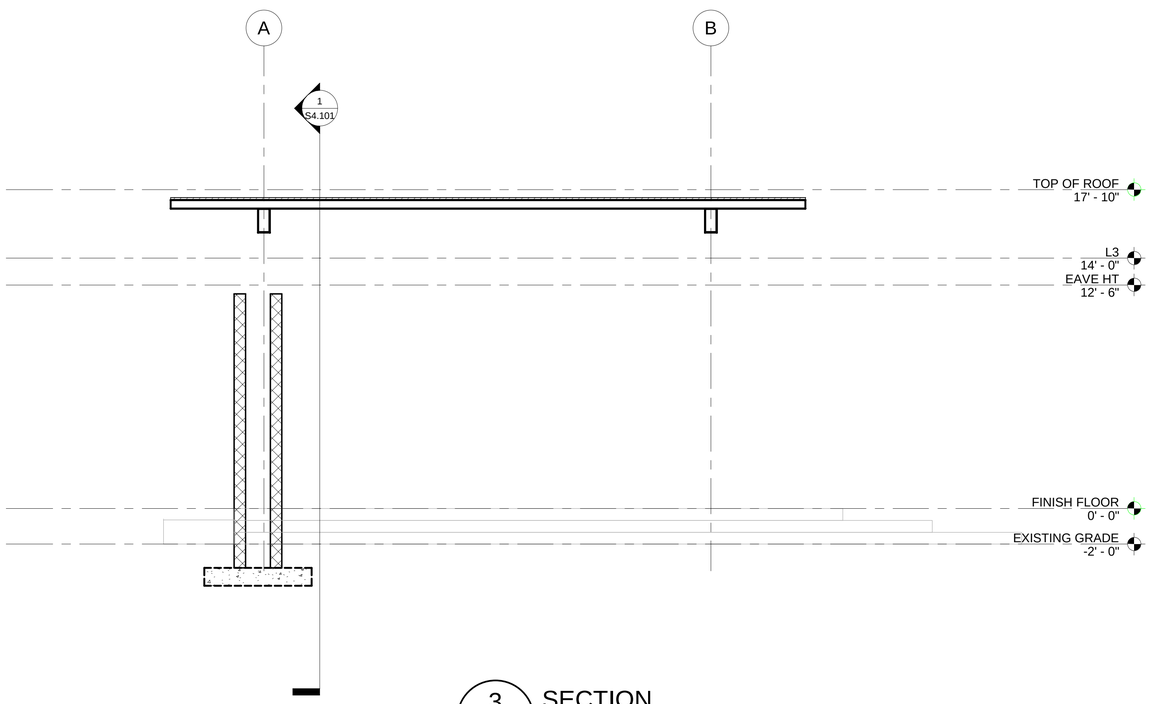
1 / S4.101 SECTION

SCALE: 1/4" = 1'-0"



2 / S4.101 PURLIN CONNECTION

SCALE: 1 1/2" = 1'-0"



3 / S4.101 SECTION

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REVISIONS:

PROJECT NUMBER	20-021
DATE:	08/20/2021
DRAWN:	Author
CHECKED:	Checker
APPROVED:	Approver
REGISTRATION	Approver

PLOWFIELD & ASSOCIATES

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SEAL

Robert L. Plowfield, Jr., P.E.
FL Registration No. 39759

SHEET TITLE

AMPHITHEATER
STRUCTURAL SECTIONS AND DETAILS

SHEET NUMBER

S4.101

A GAI CONSULTANTS, INC SERVICE GROUP

GENERAL STRUCTURAL NOTES

GENERAL DRAWING NOTES:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS FOR THIS PROJECT COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE FLORIDA STATUTES.

DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED, TYPICALLY. IN THE CASE OF DIMENSIONAL CONFLICT ARCHITECTURAL DIMENSIONS GOVERN OVER STRUCTURAL DIMENSIONS, TYPICALLY.

STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT FROM R.L. PLOWFIELD & ASSOCIATES, INC.

SHOP DRAWING REVIEW SHALL REQUIRE TWO (2) WEEKS FOR COMPLETION FROM TIME OF DELIVERY TO R.L. PLOWFIELD & ASSOCIATES, INC. SHOP DRAWINGS SHALL BE CHECKED & "APPROVED" BY GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.

CONTRACTORS SUBMITTING SHOP DRAWINGS TO PROVIDE ONE (1) SEPIA SET AND TWO (2) BLUELINE COPIES FOR MARK-UP.

00 02 00 BUILDING CODES:

FLORIDA BUILDING CODED - SEVENTH EDITION (2020)
ASCE 7-10.
BASIC WIND SPEED Vu=132 MPH AND Vasd=103 MPH.
BUILDING RISK CATEGORY II
BUILDING EXPOSURE "B"
INTERNAL PRESSURE COEFFICIENT, GCpi = +/-0.00 (OPEN)
SEISMIC IMPORTANCE FACTOR, Ie = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS,
Ss=0.079g, S1=0.040g
SITE CLASS D
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS,
Sds=0.084g, Sd1=0.064g
SEISMIC DESIGN CATEGORY = A

00 05 00 STRUCTURAL LOADING:

THE STRUCTURE HAS BEEN DESIGNED IN ACCORD WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWING SPECIFICALLY CALL FOR DIFFERENT LOADING CRITERIA.

SUPPORT REACTIONS FROM CANOPY STRUCTURE DELEGATED ENGINEER SHALL BE PROVIDED FOR VERIFICATION OF FOUNDATION DESIGNS.

01 05 10 DRAWING DIMENSIONS AND COORDINATION:

DIMENSIONAL INFORMATION, PRICING, ALL DETAILS AND CONSTRUCTION SHALL BE BASED ON THE ENTIRE SET OF CONTRACT DOCUMENTS. COORDINATE THE REQUIREMENTS OF ALL PROFESSIONALS. USE INFORMATION FROM APPROVED SHOP DRAWINGS TO SUPPLEMENT CONTRACT DOCUMENTS WHERE NECESSARY. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.

01 10 00 SCOPE OF SERVICE FOR DELEGATED ENGINEERING:

R.L. PLOWFIELD & ASSOCIATES HAS DESIGNED AND IS RESPONSIBLE FOR ONLY THE SPECIFIC STRUCTURAL COMPONENTS SHOWN IN THIS SET OF STRUCTURAL CONSTRUCTION DOCUMENTS. IF A SPECIALTY ENGINEER, AS DEFINED BY THE DEPARTMENT OF PROFESSIONAL REGULATION, IS REQUIRED, HIS SERVICES MUST COMPLY WITH THE SCOPE OF SERVICES AS OUTLINED IN THE PROJECT CONSTRUCTION DOCUMENTS.

02 00 00 FOUNDATIONS:

A GEOTECHNICAL ENGINEERING REPORT HAS BEEN PROVIDED BY ANDREYEV ENGINEERING, INC (AEI). LOCATED AT 4055 ST. JOHN'S PARKWAY, SANFORD, FL 32771. AEI PROJECT NO. GPGT-21-038. DATED MARCH 23, 2021. BASED ON THE REPORT PROVIDED, THE FOLLOWING FOUNDATION SYSTEM WILL BE USED:

SHALLOW SPREAD & STRIP FOOTINGS - ALLOWABLE BEARING= 2,500 PSF

GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR SPECIFYING AND MONITORING ALL TESTING, INSTALLATION, EVALUATION, AND REPORTING RELATED TO THE FOUNDATION SYSTEM, INCLUDING ALL WORKMANSHIP PROVISIONS RELATING TO THE SOIL - STRUCTURE INTERFACE. THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR SPECIFYING THE MATERIALS USED TO CONSTRUCT THE FOUNDATION UNITS AND FOR THE SELECTION OF VARIOUS SIZE UNITS TO SUPPORT THE STRUCTURAL FRAME.

DO NOT PLACE ANY FOOTINGS OR MATS UNTIL RECEIPT OF WRITTEN AUTHORIZATION BY THE GEOTECHNICAL ENGINEER THAT THE PREPARED SUBGRADE OR DEEP FOUNDATION SYSTEM HAS BEEN PROPERLY EXECUTED IN ACCORD WITH THE DESIGN AND THAT ANY VARYING CONDITIONS ENCOUNTERED DURING CONSTRUCTION HAVE BEEN EVALUATED AND CORRECTED WHERE NECESSARY TO INSURE PROPER FOUNDATION PERFORMANCE.

02 20 00 EARTHWORK:

CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION BRACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES, AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

02 21 00 STRUCTURAL FILL:

FOUNDATIONS PLACED ON COMPACTED STRUCTURAL FILL, TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. PLACE FILL IN LAYERS OF 8" THICK MAXIMUM AND UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER. FILL TO BE TESTED TO VERIFY COMPACTION.

02 26 00 PROOF-ROLLING:

SHALLOW FOOTINGS SHALL NOT BE LESS THAN 3'-0" SQUARE AND 1'-8" EMBEDMENT OR 2'-0" WIDE STRIP AND 1'-8" EMBEDMENT ON SOIL IMPROVED BY PROOF-ROLLING NOT LESS THAN THREE COVERAGES. FOR FOOTING WIDTHS OR EMBEDMENTS LESS THAN THOSE SPECIFIED, PERFORM ALL ROOF-ROLLING OPERATIONS IN ACCORD WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER IN THE PRESENCE OF THE OWNER'S AUTHORIZED AGENCY.

03 10 00 FORMWORK:

CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347. SEE TYPICAL DETAILS FOR CAMBER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

03 20 00 CONCRETE REINFORCEMENT:

WORK SHALL BE IN ACCORD WITH ACI 318-02, ACI 318R-02, ACI 315-99, ACI 318-02, CRSI "MANUAL OF STANDARD PRACTICE" 2001, CRSI "PLACING REINFORCING BARS" 1997, WIRE REINFORCEMENT INSTITUTE "MANUAL OF STANDARD PRACTICE-STRUCTURAL WELDED WIRE REINFORCEMENT", 2001. BARS SHALL CONFORM TO ASTM SPECIFICATION A615(S1), GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CONCRETE COVER REQUIRED AS FOLLOWS:
A.) CAST AGAINST AND EXPOSED TO EARTH 3"
B.) FORMED, EXPOSED TO EARTH OR WEATHER
#6 AND LARGER 2"
#5 AND SMALLER 1-1/2"
C.) SLABS AND WALLS - NO EARTH OR WEATHER EXPOSURE
#11 AND SMALLER 3/4"
3 HOUR FIRE RATING AND LESS 3/4"
D.) BEAMS - 3/4" (3 HOUR FIRE RATING AND LESS)
E.) COLUMNS - 1" x HOUR RATING OR 2" WHICHEVER IS LESS. (TO MAIN VERTICAL REINFORCING)
LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:
1. ALL LAP SPLICES SHALL BE TENSION CLASS "B" UNLESS OTHER LAP CONDITIONS ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
2. SPLICE LENGTHS SHALL BE SHOWN ON SHOP DRAWINGS.
3. USE GENERAL HOOK BAR DEVELOPMENT LENGTHS UNLESS SPECIAL CONFINEMENT CONDITIONS ARE SATISFIED IN ACCORD WITH ACI 318.

03 30 00 CAST-IN-PLACE CONCRETE:

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301-99. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
ALL STRUCTURAL ELEMENTS F'C = 4,000 PSI UNLESS NOTED OTHERWISE.
COLUMNS: f'c = 4,000 PSI
BEAMS: f'c = 4,000 PSI
ELEVATED SLABS f'c = 4,000 PSI
FOUNDATION f'c = 3,000 PSI
SLAB ON GRADE f'c = 3,500 PSI
ALL CONCRETE MIX DESIGN SUBMITTALS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

03 31 20 CONCRETE TESTING:

OWNER WILL EMPLOY AN INDEPENDENT TESTING LABORATORY TO PERFORM THE FOLLOWING TESTS AND SUBMIT TEST REPORTS ON CAST IN PLACE CONCRETE:

ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." SLUMP SHALL NOT EXCEED LIMIT INDICATED ON APPROVED MIX DESIGN, OR 6" (WHICHEVER IS SMALLER)

ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." CYLINDERS SHALL BE TAKEN FOR EACH MIX DESIGN USED, AND FOR EVERY 50 CUBIC YARDS OF CONCRETE PLACED. TEST CYLINDERS AT THE FOLLOWING AGES:

1 AT 3 DAYS
1 AT 7 DAYS
2 AT 28 DAYS

HOLD ONE RESERVE CYLINDER TO BE TESTED AS REQUESTED BY THE ENGINEER. IF REQUIRED 28 DAY STRENGTH IS ACHIEVED, THE RESERVE CYLINDER MAY BE DISCARDED.

STRUCTURAL SHEET SCHEDULE

NUMBER	NAME	REVISION
S1.101	GENERAL STRUCTURAL NOTES AND DETAILS	
S1.201	STRUCTURAL SECTIONS AND DETAILS	
S2.101	FOUNDATION PLAN	

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COMMUNITY SOLUTIONS GROUP

gai consultants

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

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REGISTRATION	RLP

SHEET TITLE

BASKETBALL COURT
GENERAL STRUCTURAL NOTES AND DETAILS

SHEET NUMBER

S1.101

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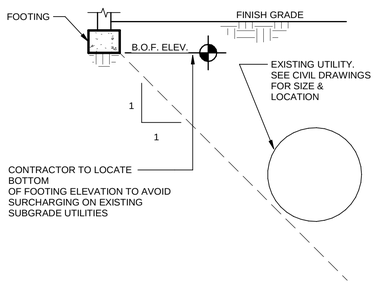
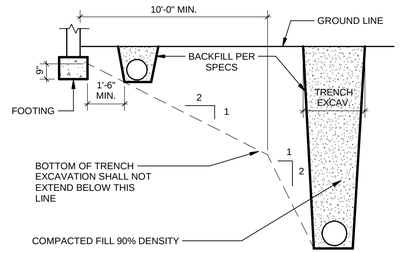


1 / S1.201 FOOTING PARALLEL TO EXISTING UTILITY

SCALE: 3/4" = 1'-0"



NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS

2 / S1.201 EXCAVATION PARALLEL TO FOOTING

SCALE: 3/4" = 1'-0"

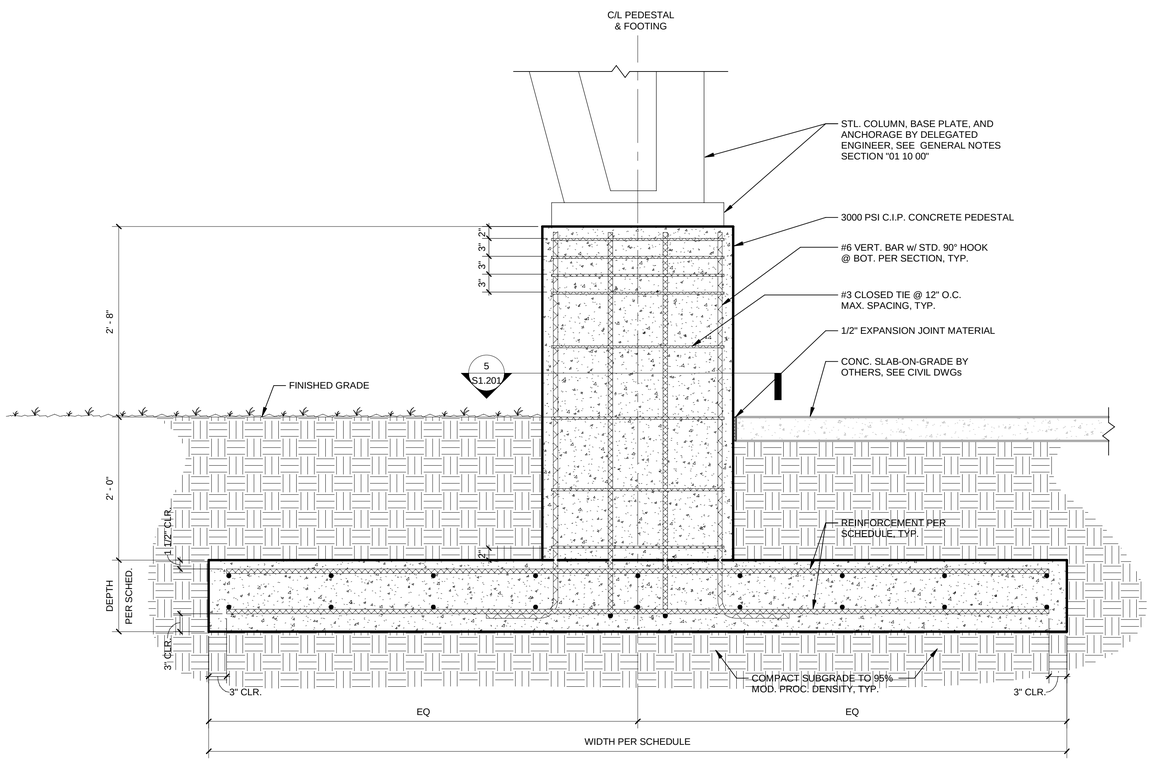
FOUNDATION SCHEDULE

MARK	SIZE		DEPTH	REINFORCEMENT			REMARKS
	LENGTH	WIDTH		BOTTOM	TOP	TRANSVERSE	
F-1	10' - 0"	10' - 0"	12"	(8)-#6 EA. WAY	(8)-#6 EA. WAY	-------	SPREAD FOOTING
F-2	12' - 0"	12' - 0"	12"	(9)-#6 EA. WAY	(9)-#6 EA. WAY	-------	SPREAD FOOTING

TOP OF FOUNDATION AT -2' - 0", TYP. U.N.O.

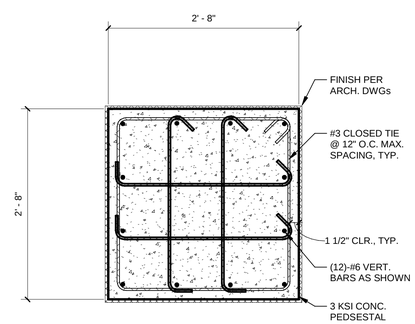
3 / S1.201 FOUNDATION SCHEDULE

SCALE: N.T.S.



4 / S1.201 FOOTING DETAIL

SCALE: 1" = 1'-0"



5 / S1.201 PEDESTAL SECTION

SCALE: 1" = 1'-0"

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COMMUNITY SOLUTIONS GROUP

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PROJECT

CAULEY LOTT PARK

BASKETBALL COURT

1717 N. HIGHLAND STREET,
MOUNT DORA, FL 32757

60% CONSTRUCTION PLANS

CONSULTANTS

HOUSEMAN ARCHITECTURE

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SHEET TITLE

BASKETBALL COURT
STRUCTURAL SECTIONS AND DETAILS

SHEET NUMBER

S1.201

A GAI CONSULTANTS, INC SERVICE GROUP

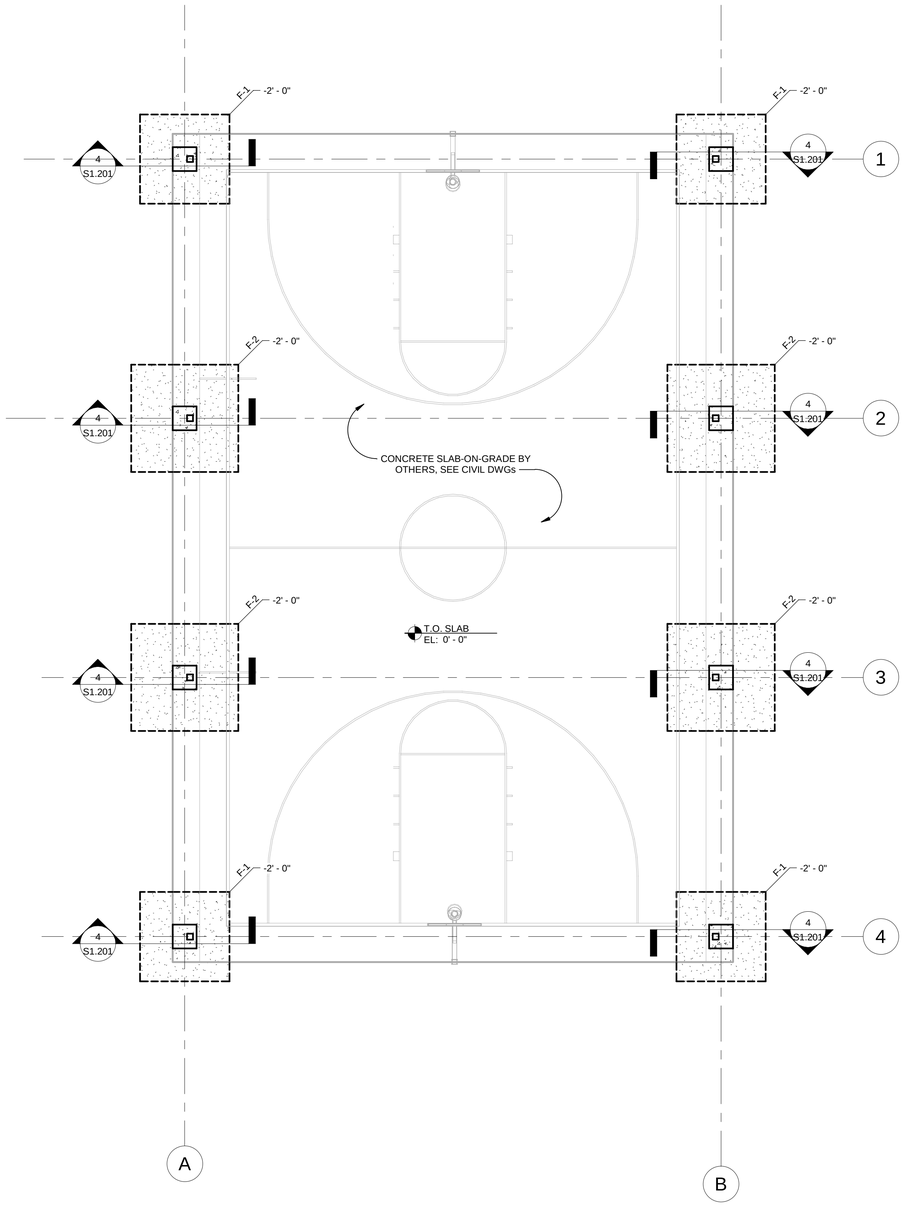
HEXAGON NOTES:

DRAWING NOTES:

1. CONTRACTOR SHALL COORDINATE PAD LOCATIONS WITH/ ELECT., MECH., & PLUMBING, REFERENCE GENERAL NOTES SECTION 01051.

2. ROUTE ALL CHASES UNDER THICKENED SLAB EDGE AND COLUMN FOOTINGS, MAINTAIN A MINIMUM 6" SOIL COVER.

3. SEE SHEET "S1.201" FOR SCHEDULED INFORMATION.



1 / S2.101 FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

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PROJECT

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SHEET TITLE

BASKETBALL COURT FOUNDATION PLAN

SHEET NUMBER

S2.101

A GAI CONSULTANTS, INC SERVICE GROUP

ATTACHMENT #3

EVERGREEN CONSTRUCTION

CAULEY LOTT PARK IMPROVEMENTS

GRANT IMPROVEMENTS		GAI Consultants	Evergreen
A	***Primary Facilities***		
1.	Playground Renovation -Equipment	60,000	66,000
	-Soft Costs	15,000	17,160
2.	West Basketball Court Renovation	40,000	56,980
	-Soft Costs	10,000	14,815
3.	Outdoor Amphitheater	160,000	146,864
	-Soft Costs	40,000	38,185
4.	Picnic Pavilion	20,000	17,500
	-Soft Costs	5,000	4,550
5.	Walking Trail	25,713	22,088
	-Soft Costs	6,428	5,743
	SUBTOTAL	$382,141	$389,884
B	***Secondary Facilities***		
1.	Landscaping - Canopy Trees	20,000	10,000
	-Soft Costs	5,000	2,600
2.	Security Lighting & Features	20,000	48,000
	-Soft Costs	5,000	12,480
	SUBTOTAL	$50,000	$73,080
C	***Necessary Demolition***		
1.	Demo Existing Sidewalks / Conc.	762	3,438
2.	Demo Existing Playground	2,458	2,520
3.	Demo Existing West Basketball Court	7,500	9,400
4.	-Soft Costs	2,680	3,993
	SUBTOTAL	$13,400	$19,351
D.	***Soft Costs***		
1.	General Conditions	0	*included*
2.	GL Insurance	0	*included*
3.	Bonds	0	*included*
4.	Permitting Fees	0	*excluded*
5.	Contingency	0	*included*
6.	Maintenance of Traffic	10,000	5,000
7.	Construction Survey / Layout	5,000	6,000
	SUBTOTAL	$15,000	$11,000
	GRAND TOTAL	$460,541	$493,315

ATTACHMENT #3

EVERGREEN CONSTRUCTION

CAULEY LOTT PARK IMPROVEMENTS

ADDITIONAL IMPROVEMENTS		GAI Consultants	Evergreen
A	***Site Development***		
1.	SWPPP Measures	7,500	15,900
2.	Clear & Grubbing	22,222	26,136
3.	Existing Tree Removal	10,000	5,600
4.	Existing Tree Protection	1,000	2,700
5.	Demo Existing Sidewalks	2,879	3,762
6.	Demo Small Picnic Shelters	2,880	1,880
7.	Demo Pavilion / Restrooms	13,000	8,800
8.	Demo East Basketball Court	7,500	9,400
9.	Demo Existing Parking Lot	4,305	5,008
10.	Demo Amphitheater	5,000	6,500
	Demo Chain Link Fencing	0	3,825
11.	Overhead Utility Lines	15,000	*excluded*
12.	On-Street Parking	4,875	19,500
13.	Concrete Curb	6,210	10,300
14.	5' Sidewalks	26,241	27,912
15.	Grading & Drainage	30,000	117,002
16.	Roadway Treatment	50,400	*included*
	SUBTOTAL	$209,012	$264,225
B	***Architecture***		
1.	Basketball Court Renovation	40,000	56,980
2.	Basketball Court Shade Pavilion	150,000	303,280
3.	Large Pavilion	200,000	280,587
4.	Restroom Building	250,000	*included*
5.	Utility Connections	2,500	12,200
6.	Picnic Pavilion	80,000	17,500
	SUBTOTAL	$722,500	$670,547
C	***Site Furnishings***		
1.	Benches	10,000	14,400
2.	Picnic Tables	24,000	7,400
3.	Trash Receptacles	10,800	16,800
4.	Bike Racks	900	4,600
5.	Park Grills	3,600	1,600
6.	Large Park Grill	1,000	1,200
7.	Drinking Fountain	0	11,300
	SUBTOTAL	$50,300	$57,300
D	***Landscaping***		
1.	Canopy Trees	18,000	6,150
2.	Shrubs & Groundcover	9,000	720
3.	Lawn A	21,000	34,300
4.	Lawn B	12,375	*included*
5.	Irrigation	10,000	12,000
6.	Tree Irrigation	4,800	*included*

ATTACHMENT #3

7.	Shrubs & Groundcover Irrigation	4,500	*included*
8.	Lawn Irrigation	12,375	*included*
	SUBTOTAL	$92,050	$53,170
E	***Soft Costs***		
1.	General Conditions	69,801	122,331
2.	GL Insurance	5,369	14,595
3.	Bonds	10,739	13,137
4.	Permitting Fees	21,477	*excluded*
	Contractor's Fee	0	57,200
5.	Contingency	161,079	61,700
6.	Maintenance of Traffic	10,000	5,000
7.	Construction Survey / Layout	5,000	4,480
8.	Material Testing / Inspection	0	5,000
	SUBTOTAL	$283,465	$283,443
	GRAND TOTAL	$1,357,327	$1,328,685

ATTACHMENT #1

African-American Cultural and Historical Grant Application

A - Organization Information

<Display applicant information *read only*>

a. Applicant Name (org or individual)*
b. FEID*
c. Phone number (with extension if applicable)*
d. Principal Address*
e. Mailing Address*
f. Website*
g. Org Type (e.g. nonprofit, school board, etc.)*
h. Org Category (e.g. public library, SOE, etc.)*
i. County*
j. UEI*
k. Fiscal Year End Date (month/day)*

1. Designated Project Contact*

The project contact is the applicant organization's primary contact for the application review process. In addition to being available to answer questions from Department staff regarding the proposed project and application, the project contact is usually the individual who will be administering the project, if it is funded.

<Select from Organization Contacts>
First & Last Name
Phone Number + Extension
Email Address

2. Authorized Official*

Provide the name and contact information for the person authorized to sign contracts on behalf of the organization. This is often an Executive Director, President, board member, city manager, county administrator, etc.

<Select from Organization Contacts>
First & Last Name
Phone Number + Extension
Email Address

3. Applicant Grant Experience and History*

3.1. Has the applicant received previous grant assistance within the past five years from any source?*

- Yes
- No

3.2. If yes, for each grant specify the year of the grant award, grant number, grant project name, the granting entity, the grant award amount, and its current status. Make sure to include any grants awarded by the Department or other State grants.

Year	Grant No.	Grant Project Name	Granting Entity	Grant Amount	Open/Closed

3.3. Has the applicant applied for additional grant assistance from other State or Federal funding sources, including from other divisions of the Department of State, for the same Scope of Work activities within the same fiscal year?*

- Yes
- No

3.4. If yes, for each application specify the grant project name, the granting entity, the grant program, the grant request amount, date of application, and its current status.

Grant Project Name	Granting Entity	Grant Program	Grant Request Amount	Date of Application	Current Status

4. Proposed Project Team*

Please list those persons who will be directly involved with the administration of the grant should this application be successful. This should include the Project Contact listed and all other individuals who will have a role in the execution of the grant project. Please list below the individuals' names, roles for the project or titles within the applicant organization, and contact information. The curricula vitae/resumes of the proposed project team are to be uploaded in the Support Materials section of this application.

Key Project Person	Project Role or Title	Email	Phone Number and Extension

5. Applicant staffing and hours*

Select the option that best describes your organization.

- Organization is open at least 40 hours per week and has at least one paid staff member in a management position
- Organization has some paid staff but they are not full-time
- Organization is open part-time and has volunteer staff

B - Property Information

1. Project Title and Location Information*
The title should reflect the name of the property, site, area, museum or exhibit, and the goals of the proposed project. The title should be consistent with previous applications/awards. (For example, Smith House Rehabilitation, Miami City Ballet: Renovation Phase 1, etc.)

1.1. Project Title*

_____

1.2. Name of Property (if applicable)

_____

1.3. Street Address (primary location where the proposed project will be carried out)

_____

1.4. City (location of the proposed project)*

_____

1.5. Primary County (location of the proposed project)*

_____

2. Historical Designation*
Indicate the type of historical designation currently held by the property/ies that are the subject of the project, if any. For properties or sites that have been listed in the National Register or are contributing properties or sites within a National Register District, provide the date that the property, site or district was listed. Should you have questions regarding the National Register status of a property or site, contact the Division of Historical Resources' National Register Staff at 1.800.847.7278 or 850.245.6300.

2.1. Type of Historical Designation*

☐

☐

☐

☐

☐

☐

2.2. Historical Designation details.
If applicable, provide the name of the property, site or district (as it is listed in the National Register) and the date of designation or listing.

Property Name	Date Designated

3. Significance

3.1. Explain the cultural or historic significance of the property, site or resource(s) that is the subject of the proposed project (Maximum characters 1500).*

3.2. For Historic Property/ies, enter the Florida Master Site File (FMSF) Number (ex. 8ES1234). For Multiple site forms, just separate with a semicolon (;). If no FMSF form exists, applicants may be required to complete one as part of the requirements in a grant award agreement.

_____

3.3. Indicate Year of the Original Construction (enter Year only)*

_____

3.4. For Historic Property, Provide Date(s) and Description of Major Alterations (Maximum characters 300)

3.5. Indicate Current Use of Property and Proposed Use (Maximum characters 300)*

C. - Project Specifics

1. Scope of Work (Maximum characters 5000)*

In the space provided below, briefly describe the scope of work for the project for which funding is requested. List the work items that will be completed during the grant period using the funds requested and the required match.

ATTACHMENT #1

African-American Cultural and Historical Grants fund Fixed Capital Outlay projects at facilities in Florida that highlight the contributions, culture, or history of African-Americans. Priority shall be given to projects that:

- Encourage the design or construction of a new facility or the renovation of an existing facility in an area with great cultural significance in which no facility exists;
- Enhance the beauty or aesthetic value of facilities named for significant African-Americans; or
- Restore facilities on the National Register of Historic Places

2. Tentative Project Timeline (remember this is a 24 month grant period)*
Please specify the start and end month and year below; indicate all major elements of the project for which funding assistance is requested, the anticipated time required to complete each element, and the planned sequence of these activities. Grants, if awarded, will begin July 1 of the year funds are appropriated. **Projects should be completed within 24 months.**

Work Item	Starting Date	Ending Date

3. Provide the estimated total square footage of the structure (the house or building, for example): *

_____

4. Provide measurable quantities for each work item listed in the Scope of Work (square footage, linear footage, unit counts, etc.):*
For example: square footage of floors to be refinished or walls to be repainted, linear footage of trim to be replaced, etc. If an element is not measurable in square feet, provide quantities (example: replace 15 door knobs):

5. Will you be hiring or contracting with professional architectural or engineering services to assist with the project work?*
NOTE: Professional architectural and engineering services are REQUIRED if the Scope of Work includes structural work, code-required upgrades, occupancy classification change (such as from residential to museum) and work that affects life safety (fire protection and egress).

- o Yes
- o No

6. If no professionals are projected to be hired, explain why. (Maximum characters 500)

7. Does the proposed project entail a partnership with any other local entity?*

- Yes
- No

7.1. If yes, describe their participation to date and anticipated further participation in this project.

8. Demonstrated Need (Maximum characters 1500)*

Discuss the demonstrated need for the proposed project or activity, as it relates to the contributions, culture, or history of African-Americans, including any immediate threats to the property/ies, historic resources, or materials that are the subject of the proposed project. Documentation material, such as newspaper articles, are to be uploaded in the Support Materials section of this application.

D. – Budget and Match

1. Project Budget and Match*

1.1 Grant Funds and Match*

List your work items and associated estimated expenses and how they will be paid (from match, the grant or both). Only include expenses that are specifically related to the project.

AACH grants require a cash match of 50% of funds requested above $500,000. For example: if the request amount is $1,000,000, the match amount is $250,000. This would be 50% of the $500,000 that is above the first $500,000 for a total project budget of $1,250,000. There is no match requirement for grant funding requests up to $500,000.

Round amounts to the nearest dollar. Rows must have a value in Grant Funds or Cash Match. If both columns are 0 or blank, the row will not be saved.

ATTACHMENT #1

The amount of grant funds requested in this application will be the total in the "Grant Funds" column. The total amount of the "Cash Match" column must equal or exceed 50% of the funds requested above $500,000. ALL matching funds must be cash-on-hand.

#	Work Item	Grant Funds	Cash Match	Total
	Totals:	$0.00	$0.00	$0.00

Grant Funds Requested: _____
Cash Match Amount: _____
Total Project Budget: _____

1.2. Additional Budget Information/Clarification

Use this space to provide additional detail or information about the proposal budget as needed. For example, where the relationship between items in the budget and the objectives of the proposed project may not be obvious, provide clarification regarding the necessity for or contribution of those work items to the successful completion of the project.

2. Completed Project Activities.
Provide a summary of the project-related activities completed at the time of application submittal. Such activities may include architectural studies or plans or planning activities. Should they have already been completed, your printed architectural project schematics or construction documents and design schematics must be uploaded in the Support Materials section of this application. You cannot be reimbursed for any work that is completed before the grant period begins.

Activity Description	Date Completed	Cost/Value

3. Operating Forecast (Maximum characters 500)*

Describe source(s) of funding for necessary maintenance, program support and/or additional expenses warranted to sustain the proposed project after the grant period.

E – Ownership Information

1. Property Ownership.*
Enter name of the Property Owner and choose the appropriate owner type. If applicant is not the owner of the property, the applicant must secure Property Owner concurrence. The applicant shall provide a letter from the Property Owner that documents that the applicant has the permission of the Property Owner of record to conduct the proposed project on the owner's property and that the Property Owner is in concurrence with this application for grant funding. This letter shall be uploaded in the Support Materials section of this application. If the property for which grant funding is requested is leased by the Applicant Organization, the lease agreement must be dated, signed and submitted at the time of the application submission, with the required Owner Concurrence Letter attachment to the application.

1.1. Does your organization own the property?*
- Yes
- No

1.2. Property Owner*

_____

1.3. Type of Ownership*
- Non-profit Organization
- Private Individual or For-Profit Entity
  Note: Properties owned by private individuals or for-profit entities are not eligible for grant funding.
- State or Local Governmental Agency
- Federal Governmental Agency

1.4. Is the property within a Qualified Census Tract?* (available at https://www.huduser.gov/portal/datasets/qct.html)
- Yes
- No

F –Protection and Impact

1. Local Protection*
Indicate the level(s) of local protection currently afforded the project property or site and upload a copy of the local protection documents in the Support Materials section of this application.

1.1. Local Protection Level(s)*

- ☐
- ☐
- ☐ Protective/Restrictive Covenant

- ☐ Maintenance Agreement/Long Term Lease
- ☐
- ☐

2. Annual Visitation*

2.1. What is the estimated or anticipated Annual Visitation for the project property or site?*

_____

2.2. What is the basis of these estimates? (Maximum characters 200)*

3. Economic Impact*

3.1 Negative Economic Impact of COVID-19/Exacerbation of Pre-Existing Disparities and Anticipated Economic Impact of Project (Maximum characters 3000)*
Explain the negative economic impact of COVID-19 on your organization, the exacerbation of pre-existing disparities and/or any delays it caused the project. Explain the direct economic impact this project will have on addressing the negative economic impact of COVID-19 and/or the pre-existing disparities for your organization and the surrounding community. Include any information regarding number of jobs it will provide, if known.

3.2. Was this a planned expansion or upgrade that was delayed due to the pandemic?*

- ○ Yes
- ○ No

4. Educational and Public Impact

4.1. Educational Benefits and Public Awareness (Maximum characters 1500)*
Explain how the proposed project will educate the public on issues related to the contributions, culture, or history of African-Americans in Florida.

4.2. Building Stronger Communities/Addressing Educational Disparities/Promoting Healthy Childhood Environments (Maximum characters 3000)*
Explain how the proposed project will build stronger communities through investments in neighborhoods, address educational disparities and/or promote healthy childhood environments.

G –Support Materials

1. Non-Profit Status*

Choose file:	Upload file

2. Substitute W-9 Form (available at DFS website https://flvendor.myfloridacfo.com)*

Choose file:	Upload file

3. Documentation of Confirmed Match*
Consult the program Guidelines for suitable documentation evidencing match (http://dos.myflorida.com/aach)

Choose file:	Upload file

4. **Letters of Support***

Choose file:	Upload file

5. Photographs*
Photographs are used to further inform Panelists and should relate to the proposed project, depicting the associated property, site, or resources in its current state. Historical images are also welcome.

Choose file:	Upload file

6. Representative Image*
Upload a single representative image of the property or project to be used in the application review meeting that conveys the theme or purpose of the proposed project. For projects directed at historic properties or sites, this should be a recent image of the front of the building or site.

Choose file:	Upload file

7. Proposed Project Team Supporting Documentation*
Provide curricula vitae/resumes of the proposed project team as listed in Section A.4 of the application.

Choose file:	Upload file

8. Architectural Drawings/Design Documents (if available)
If completed, the Applicant Organization shall provide architectural project schematics, construction documents, or conditions reports.

Choose file:	Upload file

9. Arts and Cultural Mission and Programming (if applicable)
Provide materials such as a season program, box office statement, educational programs that document percentage of arts and cultural programming of facility (If project is for a NEW space without previous programing, provide programming examples)

Choose file:	Upload file

10. Demonstrated Need*

Provide documentation materials, such as newspaper articles, that demonstrate need for the proposed project or activity, as it relates to the contributions, culture, or history of African-Americans, including any immediate threats to the property/ies, historic resources, or materials that are the subject of the proposed project.

Choose file:	Upload file

11. Owner Concurrence Letter*

Provide a letter that documents that the applicant has the permission of the owner of record (if the Property Owner is not the applicant) to conduct the proposed project on the owner's property and that the owner is in concurrence with this application for grant funding. If the property for which grant funding is requested is leased by the Applicant Organization, the lease agreement must be dated, signed and submitted at the time of the application submission, with the required Owner Concurrence Letter. Note that, the owner must be a Non-profit Organization or agency of government.

Choose file:	Upload file

12. Local Protection (if applicable)

Provide copies of any documents that provide local protection of the project site as identified in question F.1.1.

Choose file:	Upload file

13. Federal Assurances for Construction Programs Form*

Provide a completed copy of the Federal SF424D Assurances for Construction Programs form, which can be obtained at the Grants.Gov website https://www.grants.gov/forms/sf-424-family.html.

Choose file:	Upload file

14. Optional Materials

Applicants may attach materials not specifically requested that support the application. Examples may include copies of National Register nominations, conditions assessments, newspaper articles or other documents that reflect the significance of the resource, highlight its historic characteristics, its public use, COVID impact documentation and so on.

Title

_____

File

To add a support material enter a title and optional description. Then select a file and click the Upload File button.

Choose file:	Upload file

Description (optional)

Additional details about the support materials that may be helpful to staff or panelists.

_____

H –Review and Submit

1. Review and Submit*

ATTACHMENT #1

□ I hereby certify that I am authorized to submit this application on behalf of **[Organization Name]** and that all information indicated is true and accurate. I acknowledge that my electronic signature below shall have the same legal effect as my written signature. I am aware that making false statement or representation to the Department of State constitutes a third degree felony as provided for in s. 817.155, F.S., punishable as provided for by ss. 775.082, 775.083, and 775.084.

1.1 Signature (enter first and last name)*

_____

CITY OF MOUNT DORA

Leisure Services
900 N. Donnelly St.
Mount Dora, FL 32757
352-735-7183
Fax: 352-735-3681
E-mail: parksandrec@cityofmountdora.com

DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: Approval of 60% Design and Construction Documents for Lincoln Avenue Pool Renovation Phase II

Introduction:
This is an opportunity for Board members to review 60% design and construction documents for Phase II of the Lincoln Pool renovation.

Discussion:
The Parks and Recreation Master Plan adopted by City Council in February 2019 identified the need for renovations at the Lincoln Avenue Community Pool within zero to two years.

Phase I of the renovation took place over the summer months of 2020 and accomplished crucial updates, including new heaters and pumps, pool resurfacing and lights, and the addition of entrance steps, rails and a permanent chair lift for ADA accessibility. Since the completion of Phase I, there has been an increase in the pool's operational efficiency and aquatics programs are thriving.

With Parks and Recreation Advisory Board support, City Council approved Resolution No. 2021-47 on May 4, 2021, authorizing the City to move forward with Phase II of the project. This second phase will involve the renovation of the locker/rest rooms to meet ADA accessibility requirements and health code standards, and the possible additions of a shade covering (which would also offer lightning protection), and a splash pad to replace the defunct children's pool.

CPH recently provided City staff with 60% design and construction documents for Phase II. They are attached for Board member approval to move forward toward 100% document completion and subsequent construction initiation.

Budget Impact:

Funds for the Lincoln Avenue Pool Renovation Phase II in the amount of $1,646,777 were appropriated within the FY2020-21 Capital Improvement Plan (CIP) budget.

Strategic Impact:
This item fulfills Objective 2.3 of the City's Strategic Plan, developing a parks and recreation system guided by the principles of the Parks and Recreation Master Plan.

Recommendation Board members advise City staff of any concerns related to the 60% construction documents for Phase II of the Lincoln Pool renovation.

Attachment(s):
1. Attachment 1 Lincoln Pool Park Phase II Restroom Renovation_M7030.1 10.27.21
2. Attachment 2 Lincoln Park Pool PH II Mount Dora Proposal_Evergreen Construction

Prepared by:	Jeanann Hand, Administrative Coordinatior	
Reviewed by:	Troy Shonk, Leisure Services Administrator	Approved - 11/10/2021
	Amy Jewell, Leisure Services Director	Final Approval - 11/10/2021

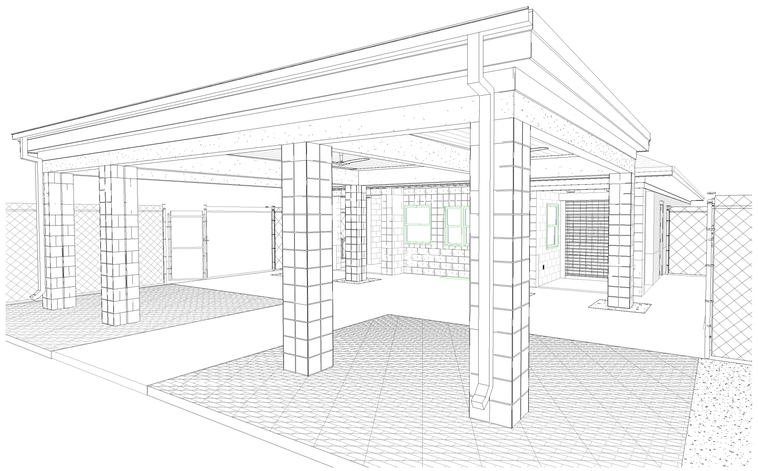
MOUNT DORA LINCOLN PARK PHASE II RESTROOM IMPROVEMENTS

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

60% REVIEW

CITY OF MOUNT DORA

CHET CRAMER
CRAMERC@CI.MOUNT-DORA.FL.US
(352) 901-7805 (c)



SHEET INDEX

SHEET NUMBER	SHEET TITLE	Current Revision	Current Revision Date
GENERAL INFORMATION			
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G001	SHEET INDEX AND DRAWING CONVENTIONS		
G002	GENERAL INFORMATION AND ABBREVIATIONS		
G101	LIFE SAFETY PLAN		
G102	ADA SPECIFCATIONS		
LANDSCAPING			
H1.1	HARDSCAPE PLANS		
H5.1	SPLASH PAD COMPONENT DETAILS		
ARCHITECTURE			
A050	DEMOLITION FLOOR PLAN		
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A100	ARCHITECTURAL SITE PLAN		
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S-0.10	GENERAL NOTES		
S-1.10	FOUNDATION PLAN - OVERALL		
S-1.20	FOOTING SECTIONS AND DETAILS		
S-2.10	FRAMING PLAN - OVERALL		
S-2.20	FRAMING SECTIONS & DETAILS		
S-2.21	GENERAL LINTEL AND CMU INFORMATION		
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E201	FIRST FLOOR PLAN POWER		
E202	POWER FIRST FLOOR PLAN CANOPY		
E301	FIRST FLOOR CEILING PLAN LIGHTING		
E302	LIGHTING FIRST FLOOR CEILING PLAN CANOPY		
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PD201	DEMOLITION FIRST FLOOR PLAN SANITARY		
P210	ROOF PLAN PLUMBING		
P301	FIRST FLOOR PLAN DOMESTIC WATER		
P501	PLUMBING SANITARY RISER		
PD301	DEMOLITION FIRST FLOOR PLAN DOMESTIC WATER		

REVISION HISTORY

REVISION NO.	DATE	REVISION DESCRIPTION

BUILDING DATA:

OCCUPANCY:	GROUP B - LOCKER ROOM
CONSTRUCTION TYPES:	V-B, NON-FIRE SPRINKLED
EXISTING BUILDING SF:	1,971 S.F.
EXISTING POOL DECK SF:	4,926 S.F.
NEW ADDITION SF:	756 S.F. (CANOPY)
TOTAL SF:	

DESIGN LOADS

ULTIMATE DESIGN WIND SPEED:	
NOMINAL DESIGN WIND SPEED:	
IMPORTANCE FACTOR:	
EXPOSURE:	
INTERNAL PRESSURE COEFFICIENT:	
BUILDING RISK CATEGORY:	
TOTAL SF:	

CERTIFICATION

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE INFORMATION, AND BELIEF, THIS DESIGN IS IN COMPLIANCE WITH APPLICABLE CODES AND LAWS.

CPH, INC. DATE

PROJECT DIRECTORY

Architect	CPH, INC.	Mechanical	CPH, INC.	Structural	CPH, INC.
Contact:	JOHN A. BAER, AIA	Contact:	JEFFREY DEAL, PE	Contact:	JOSE ORTIZ, P.E.
Email:	jbaer@cphcorp.com	Email:	jdeal@cphcorp.com	Email:	jortiz@cphcorp.com
Address:	500 West Fulton Street Sanford, Florida 32771	Address:	500 West Fulton Street Sanford, Florida 32771	Address:	500 West Fulton Street Sanford, Florida 32771
Phone:	(407) 322-6841 x1104	Phone:	(407) 322-6841 x1113	Phone:	(407) 322-6841 x1117

Landscape	CPH, INC.	Electrical	CPH, INC.	Plumbing	CPH, INC.
Contact:	MAXWELL SPANN, PLA	Contact:	ALEX ZVONARYOV, PE	Contact:	JEFFREY DEAL, PE
Email:	mspann@cphcorp.com	Email:	azvonaryov@cphcorp.com	Email:	jdeal@cphcorp.com
Address:	500 West Fulton Street Sanford, Florida 32771	Address:	500 West Fulton Street Sanford, Florida 32771	Address:	500 West Fulton Street Sanford, Florida 32771
Phone:	(407) 322-6841 x1254	Phone:	(407) 322-6841 x1017	Phone:	(407) 322-6841 x1113

cph
www.cphcorp.com
A Full Service A & E Firm
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
Ph:(407) 322-6841

Plans Prepared By :
CPH, Inc.

State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Architect of Record
##/##/2021
TBD-Arch License
CPH, INC.

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	CPH
Drawn:	KAR
Checked:	JAB
Job No.:	M7030.1
10/22/2021	© 2021

COVER

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
G000

G-002 GENERAL NOTES TO CONTRACTOR

1 APPLICABLE BUILDING CODE AND OTHER ORDINANCES, CODES AND REGULATIONS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS, AND REQUIRED BY LOCAL BUILDING AUTHORITIES. THE GOVERNING CODES, RULES AND REGULATIONS ARE COLLECTIVELY REFERRED TO AS "THE CODE". THE CONTRACTOR SHALL REPORT ANY INCONSISTENCIES, CONFLICTS OR OMISSIONS DISCOVERED TO THE ARCHITECT FOR INTERPRETATION PRIOR TO PERFORMING ANY WORK.

2 THE GENERAL CONTRACTOR SHALL CONTACT BUILDING MANAGEMENT TO DETERMINE THE RULES OF THE BUILDING RELATIVE TO CONSTRUCTION; WHEN AND HOW DELIVERIES CAN BE MADE. WHAT PHASES AND TYPES OF CONSTRUCTION MAY BE DONE ON REGULAR OR OVERTIME BASIS AND, IN GENERAL, ANY SPECIAL BUILDING REQUIREMENTS WHICH WILL AFFECT THE COST OF ALL WORK BORNE BY THE GENERAL CONTRACTOR. ALL WORK SHALL CONFORM TO ALL BASE BUILDING STANDARD SPECIFICATIONS AND BUILDING REGULATIONS WHICH THE GENERAL CONTRACTOR SHALL OBTAIN PRIOR TO SUBMISSION OF BID.

3 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUB-CONTRACTORS RECEIPT OF COMPLETE SETS OF THESE DOCUMENTS AS WELL AS ALL FUTURE ADDENDA, BULLETINS, FIELD DIRECTIVES AND CHANGE ORDERS.

4 THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT THE STORAGE OF MATERIALS. GENERAL CONTRACTOR SHALL PROVIDE PROTECTION AS NECESSARY TO PREVENT VANDALISM AND LOSS OF MATERIALS BY THEFT OR DAMAGE SUSTAINED DUE TO EXPOSURE TO INAPPROPRIATE ENVIRONMENTAL CONDITIONS. GENERAL CONTRACTOR WILL REPAIR AND REPLACE ANY DAMAGE OR LOSS AT THE GENERAL CONTRACTOR'S EXPENSE WITHOUT CHARGE TO THE OWNER / TENANT.

5 1.WHERE ADJACENT AREAS BEYOND THE IMMEDIATE CONSTRUCTION AREA WILL BE OCCUPIED DURING THE CONSTRUCTION PERIOD, THE GENERAL CONTRACTOR SHALL:

a.CONFORM TO OWNERS AND TENANT REQUIREMENTS FOR HOURS OF CONSTRUCTION OPERATIONS, ACCESS TO TENANT SPACES AND ALLOWABLE NOISE LEVEL DURING TENANT BUSINESS HOURS;

b.NOT BLOCK HALLWAYS, ACCESSIBLE ROUTES OR MEANS OF EGRESS FOR TENANTS OF BUILDING;

c.NOT CAUSE INTERRUPTIONS OF ELECTRICAL SERVICES TO THE TENANTS OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND APPROVALS;

d.PROPERLY PROTECT ALL FLOORS, MAIL CHUTES AND DOORS IN PUBLIC AREAS SUBJECT TO CONSTRUCTION TRAFFIC;

e.PROVIDE SHOE WIPING MATS AT ALL OPENINGS BETWEEN CONSTRUCTION AREAS AND ALL PUBLIC SPACES;

f.KEEP ALL ACTIVE AREAS CLEAN AND FREE FROM DEBRIS;

g.ERECT AND MAINTAIN TEMPORARY BRACING, LIGHTS, DUSTPROOF PARTITIONS, BARRICADES, FENCES AND WARNING SIGNS AS NECESSARY TO PREVENT INJURY, NOISE, DUST AND INCONVENIENCE TO OTHER TENANTS, THE PUBLIC AND TO PREVENT DAMAGE TO ADJACENT CONSTRUCTION TO REMAIN;

h.FOLLOW THE RECOMMENDED CONTROL MEASURES OF THE SHEET METAL AND AIR CONDITIONING NATIONAL CONTRACTORS ASSOCIATION (SMACNA) IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, 2ND EDITION 2008, ANSI / SMACNA 008-2008, CHAPTER 3;

i.INSTALL FILTRATION MEDIA AT ALL RETURN AIR GRILLS FOR PERMANENTLY INSTALLED AIR HANDLERS TO BE USED DURING CONSTRUCTION WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8;

j.PROVIDE A ZIPWALL (OR SIMILAR) BARRIER IN AREAS WHERE NO IMMEDIATE ADJACENT SPACES (I.E. CORRIDORS) ARE AVAILABLE, SEPARATING THE CONSTRUCTION SPACE FROM ANY OCCUPIED SPACE;

PROVIDE A TEMPORARY FRAMED PARTITION IN AREAS WHERE LARGER SPACES ARE REQUIRED TO BE SEPARATE AND PORTIONS OF ROOMS ARE OCCUPIED. FINISHED SIDE OF TEMPORARY WALL FACING ADJACENT OCCUPIED SPACE SHALL BE PAINTED TO LOOK SIMILAR TO THE OCCUPIED SPACE.

6 6.ALL CUTTING, CHASING, DRILLING OR DEMOLITION OF WALLS, SLABS, ETC. REQUIRING THE USE OF JACKHAMMERS OR OTHER HEAVY HAND OR POWER TOOLS SHALL BE PERFORMED AFTER REGULAR BUSINESS HOURS ON AN OVERTIME BASIS, IF NECESSARY, UNLESS THE BUILDING MANAGEMENT AND ANY AFFECTED TENANTS PROVIDE A WRITTEN WAIVER EXPRESSLY PERMITTING OTHERWISE.

7 THE GENERAL CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS FOR THE D[illegible] THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUS[illegible] LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL PROVIDE PUBLIC PROTECTION AS NECESSARY [illegible] GOVERNING AGENCIES HAVING JURISDICTION UNTIL OWNER / TENANT ACCEPTANCE OF THE PREMISES.

8 THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION AND MAIN[illegible] SHORING, ENCLOSURES, BARRIERS, SCAFFOLDING OR ANY OTHER TEMPORARY CONSTRUCTION [illegible] WORKING ENVIRONMENT AS DICTATED BY SITE CONDITIONS, THE PROGRESSION OF WORK [illegible] STANDARDS HAVING JURISDICTION OVER THE WORK.

9 FOR THE DURATION OF THE PROJECT, ALL EXITS, EXIT AND OPERABLE LIGHTIN[illegible] OTHER REQUIRED OR EXISTING SAFETY EQUIPMENT SHALL BE MAINTAIN[illegible] OR STANDARDS HAVING JURISDICTION OVER THE WORK. UNLESS N[illegible] REMAIN ACTIVE AND IN GOOD REPAIR.

10 THE GENERAL CONTRACTOR SHALL PROTECT THE PROP[illegible] [illegible]T NOT LIMITED TO, WINDOWS, FLOOR AND CEILING FINISHES, PUB[illegible] [illegible]VAC EQUIPMENT. THE GENERAL CONTRACTOR SHALL PROTECT [illegible] [illegible]TRACTOR'S WORK OR WORKMEN MUST BE MADE GOOD IN A TIM[illegible] [illegible]K SHALL BE PERFORMED AT THE COST OF THE GENERAL CONTR[illegible] [illegible]BLE FOR ALL OF ITS SUB-CONTRACTORS. IF THE GENE[illegible] [illegible]MELY FASHION, REPAIRS WILL BE MADE BY A CONTRACTOR SELECTED BY TH[illegible] [illegible]NTATIVE AND BACK CHARGED TO THE GENERAL CONTRACTOR ACCORDINGL[illegible]

11 THE GENERAL CONTRACTOR SHALL INDE[illegible] [illegible]NDLORD, TENANT AND ARCHITECT AGAINST ANY AND ALL CLAIMS AND DEMANDS FOR THE DAMAGE T[illegible] [illegible]NSON, FIRM OR INDIVIDUAL OR FOR PERSONAL INJURIES (INCLUDING DEATH) ARISING OUT OF OR SUF[illegible] [illegible]D IN, OR CAUSED IN WHOLE OR IN PART, BY THE EXECUTION OF THE WORK. THE CONTRACTOR SHALL WELL AND TR[illegible] [illegible]HE LANDLORD, TENANT AND ARCHITECT AND SHALL PAY ALL MONIES AWARDED FOR SUCH DAMAGES OR INJURIES (INC[illegible] [illegible] DEATH), ALL COSTS INCLUDING REASONABLE ATTORNEY'S FEES SUSTAINED AND SHALL OBTAIN A FULL ACQUAINTANCE AND RELEASE IN FAVOR OF THE LANDLORD, TENANT AND ARCHITECT, UNLESS SUCH LIABILITY RESULTS SOLELY FROM THE NEGLIGENCE OF THE LANDLORD, TENANT, ARCHITECT, ITS AGENTS OR EMPLOYEES.

12 THE ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR THE PERFORMANCE OF ANY WORK, THE MEANS AND METHODS OF CONSTRUCTION CHOSEN BY THE CONTRACTOR OR ANY SUB-CONTRACTORS, NOR SHALL THE ARCHITECT GUARANTEE THE PERFORMANCE OF THEIR CONTRACTS.

13 THE GENERAL CONTRACTOR SHALL PERFORM DAILY CLEANING OF THE JOB SITE DURING THE CONSTRUCTION PERIOD AND SHALL PROTECT FINISHED WORK FROM DAMAGE. IMMEDIATELY PRIOR TO TENANT OCCUPANCY, THE CONTRACTOR SHALL PERFORM FINAL CLEANING OF THE WORK AREA INCLUDING, BUT NOT LIMITED TO, WET WIPING OF FURNITURE AND CASEWORK, WASHING AND WAXING OF ALL FLOORING REQUIRING SUCH CARE AND THE VACUUMING OF CARPET. ALL CLEANING SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

14 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL SUB-CONTRACTORS AND SHALL PERFORM SUCH MISCELLANEOUS WORK AS MAY BE NECESSARY FOR THE COMPLETION OF THE WORK. IT IS EXPECTED THAT THE GENERAL CONTRACTOR SHALL ALSO CLOSELY COORDINATE THE WORK WITH THAT OF ALL OTHER VENDORS RETAINED BY THE OWNER / TENANT TO ASSURE THAT ALL SCHEDULES ARE MET AND WORK PROCEEDS WITHOUT DELAY.

15 BIDDERS, BEFORE SUBMITTING PROPOSALS, SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THE WORK TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND ANY DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN REASONABLY FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE AND REPORT ANY AND ALL DISCREPANCIES AND / OR UNUSUAL CONDITIONS TO THE ARCHITECT PRIOR TO FINALIZING BIDS OR COMMENCEMENT OF ANY WORK.

16 THE GENERAL CONTRACTOR SHALL MAKE KNOWN ANY AND ALL LIMITATIONS, EXCLUSIONS OR MODIFICATIONS TO THE PROJECT DURING THE BIDDING PROCESS. ANY AND ALL LIMITATIONS, EXCLUSIONS OR MODIFICATIONS NOT ITEMIZED IN THE BID PROPOSAL DOCUMENTS ARE PRESUMED "INCLUDED", IN WHICH CASE NO ADDITIONAL MONIES WILL BE ALLOCATED FOR THIS WORK.

17 EXISTING CONSTRUCTION AND DIMENSIONS SHOWN ARE PER EXISTING DRAWINGS AND FIELD VERIFICATION OF EXISTING CONDITIONS AND DIMENSIONS. ALL EXISTING INFORMATION MUST BE VERIFIED IN THE FIELD. EVERY EFFORT HAS BEEN MADE TO ASSURE THE ACCURACY OF THE EXISTING CONDITIONS AND DIMENSIONS REFLECTED IN THE CONSTRUCTION DOCUMENTS. HOWEVER, IT IS STILL UP TO THE GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS ARISE RESULTING FROM THE GENERAL CONTRACTOR'S FIELD INVESTIGATIONS AND INSPECTIONS, SUCH DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK. EXISTING CONSTRUCTION CONDITIONS IN AREAS WHERE NEW WORK IS NOT PLANNED MAY NOT BE COMPLETELY SHOWN.

18 EXHAUSTIVE AND INVASIVE INSPECTIONS OF EXISTING CONDITIONS WERE NOT PERFORMED BY THE ARCHITECT. AS SUCH, ADVERSE CONDITIONS MAY BE DISCOVERED DURING THE PROGRESSION OF THE WORK. IF SUCH ADVERSE CONDITIONS ARE REVEALED OR DISCOVERED DURING THE PROGRESSION OF THE WORK, SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BEFORE THE COMPLETION OF ANY WORK ADVERSELY EFFECTED BY THESE DISCOVERIES.

19 WITHIN ONE (1) WEEK (5 BUSINESS DAYS) OF THE AWARD OF THIS CONTRACT AND PRIOR TO MOBILIZATION FOR ANY WORK, THE GENERAL CONTRACTOR SHALL FURNISH A CONSTRUCTION SCHEDULE SHOWING THE PROGRESSION OF THE WORK FOR THE TIMELY COMPLETION OF THE PROJECT. THIS SCHEDULE SHALL INDICATE ALL ORDERING LEAD TIMES, LENGTH OF TIME FOR EACH PHASE, ITS START AND COMPLETION, WITH A PROJECTED TIMELY COMPLETION DATE. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED IN WRITING BY THE OWNER / TENANT PRIOR TO THE COMMENCEMENT OF ANY WORK.

20 THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL ATTEND JOB MEETINGS AS REQUIRED BY CONTRACT.

21 THE GENERAL CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES' SPECIFICATIONS FOR, BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHERWISE. SEPARATE PERMITS, WHEN REQUIRED AND / OR WHEN WORK ITEMS ARE DESIGN / BUILD IN NATURE, SHALL BE OBTAINED BY THE GENERAL CONTRACTOR FOR MECHANICAL, PLUMBING, FIRE SPRINKLERS, ELECTRICAL AND FIRE ALARM SYSTEMS. DESCRIPTIVE, DETAILED DESIGN AND REQUIRED SUBMITTAL DOCUMENTS INFORMATION SHALL BE PROVIDED FOR REVIEW BY THE REGULATING AUTHORITIES AND BY THE OWNER / TENANT AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE SPECIFICATIONS FOR REQUIRED DESIGN / BUILD SYSTEMS. SUBMIT PLAN TO AND OBTAIN PERMIT FROM THE AUTHORITY HAVING JURISDICTION OVER DESIGN / BUILD SYSTEMS' INSTALLATION OR MODIFICATION. ALL WORK SHALL COMPLY WITH GOVERNING CODES AND REGULATIONS APPLICABLE TO THE WORK. NOTHING IN THE CONSTRUCTION DOCUMENTS IS TO BE CONSTRUED TO PERMIT WORK WHICH DOES NOT CONFORM TO CURRENT GOVERNING CODES.

22 THE GENERAL CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE 2017 ENVIRONMENTAL PROTECTION AGENCY'S CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT.

G-002 GENERAL NOTES TO CONTRACTOR

23 ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE FIRE DEPARTMENT HAVING JURISDICTION PRIOR TO THE COMMENCEMENT OF ANY WORK.

24 ALL COSTS FOR INSPECTIONS AND / OR TESTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.

25 THE CONTRACTOR SHALL PAY THE EXPENSES FOR ALL TRANSPORTATION, HOISTING AND ELEVATOR USE CHARGES ON ALL MATERIALS OR EQUIPMENT TO THE POINT OF USE AND SHALL BE RESPONSIBLE FOR ALL UNLOADING, CHECKING AND STORAGE OF THE SAME IN CONNECTION WITH THE WORK.

26 OF THE INEVITABLE WASTE THAT IS GENERATED, AS MANY OF THE WASTE MATERIALS AS ECONOMICALLY FEASIBLE SHALL BE REUSED, SALVAGED OR RECYCLED. WASTE DISPOSAL IN LANDFILLS SHALL BE MINIMIZED. THE GENERAL CONTRACTOR SHALL COORDINATE WASTE MATERIALS HANDLING AND SEPARATION FOR ALL TRADES. THE GENERAL CONTRACTOR SHALL PROVIDE SEPARATION, HANDLING, TRANSPORTATION, RECYCLING, SALVAGE AND LANDFILL FOR ALL DEMOLITION AND WASTE MATERIALS. RECYCLABLE MATERIALS CAN BE COMMINGLED IN DUMPSTERS ON-SITE AS LONG AS PROVISION IS MADE FOR HAULING TO A TRANSFER STATION WHERE SEPARATION WILL OCCUR. TRANSFER STATION MUST PROVIDE DOCUMENTATION REPORTING TYPES OF MATERIALS SEPARATED BY LOAD AND PERCENTAGE OF EACH LOAD. FINAL DESTINATION OF SORTED MATERIALS MUST ALSO BE REPORTED. DIVERSION GOALS: A MINIMUM OF 75% OF TOTAL PROJECT WASTE SHALL BE DIVERTED FROM LANDFILL. THE FOLLOWING WASTE CATEGORIES, AT A MINIMUM, SHALL BE DIVERTED FROM LANDFILL:

a.CLEAN DIMENSIONED WOOD, PALLET WOOD;

b.PLYWOOD, ORIENTED STRAND BOARD AND PARTICLEBOARD;

c.CONCRETE;

d.CARDBOARD, PAPER, PACKAGING AND METALS;

e.GYPSUM DRYWALL - UNPAINTED;

f.ACOUSTIC TILE;

g.PAINT;

h.GLASS;

i.PLASTICS;

j.CARPET AND PAD;

k.BEVERAGE CONTAINERS.

27 THE GENERAL CONTRACTOR SHALL MAKE ALI [illegible] S, MAINTAIN AND PAY ALL COSTS FOR TEMPORARY WATER, PLUMBING, POWER, LIGHTING, HEATING OR VENTILA[illegible] ROPERLY CONDUCT THE WORK.

28 DIMENSIONS ARE TO FACE OF STU[illegible] [illegible]NLESS NOTED OTHERWISE. DOORS SHALL BE 8" FROM ADJACENT MASONRY WALLS, 4" FROM A[illegible] [illegible]N THE WALL IN WHICH IT OCCURS UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS [illegible] DIMENSIONAL DISCREPANCIES ENCOUNTERED SHALL BE REPORTED TO THF [illegible] [illegible]RIOR TO THE COMMENCEMENT OF THE ASSOCIATED WORK.

29 LARGER SCA[illegible] [illegible]RAWINGS.

30 INSTA[illegible] [illegible]OMMENDATIONS. ANY DIFFICULTIES OR DISCREPANCIES ARE TO [illegible] [illegible]OMMENCEMENT OF THE ASSOCIATED WORK.

31 [illegible] SHALL WARRANTEE ALL WORK PERFORMED UNDER THEIR RESPECTIVE [illegible]. ALL DEFECTS IN THE WORK OCCURRING IN THE WARRANTEE PERIOD SHALL BE [illegible]NDLORD, OWNER OR TENANT, WHICHEVER IS APPLICABLE.

[illegible]ULTANTS AND ALL INSPECTORS FROM ANY AGENCIES HAVING JURISDICTION OVER THE WORK [illegible]E JOB SITE AT ALL TIMES DURING NORMAL WORKING HOURS.

[illegible]VIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO EXECUTE ALL WORK, EXCEPT WHERE [illegible]ACT.

[illegible] SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE [illegible] IF THEY WERE INDICATED IN THE DRAWINGS UNLESS OTHERWISE AGREED UPON. WHERE THE CONTRACT, [illegible]UCTION NOTES OR DRAWINGS CALL FOR ANY WORK OF A MORE STRINGENT NATURE THAN THAT REQUIRED BY THE BUILDING [illegible]DE OR ANY OTHER ENTITY HAVING JURISDICTION OVER THE WORK, THE WORK OF THE MORE STRINGENT NATURE CALLED SHALL BE FURNISHED IN ALL CASES.

35 FOR ALL MATERIALS PURCHASED, THE GENERAL CONTRACTOR SHALL FURNISH MATERIALS WHICH YIELD THE HIGHEST PERCENT OF PRE-CONSUMER (POST-INDUSTRIAL) AND POST-CONSUMER RECYCLED CONTENT. THE CONTRACTOR SHALL FURNISH THESE MATERIALS WITHIN THE PARAMETERS OF THE BUDGET AND SHALL NOT PURCHASE ANY COST ADDING MATERIAL OR PAY A PREMIUM (MORE THAN FAIR MARKET VALUE) WITHOUT OWNER / TENANT ACKNOWLEDGEMENT AND APPROVAL.

36 FOR ALL MATERIALS PURCHASED, THE GENERAL CONTRACTOR SHALL FURNISH MATERIALS MANUFACTURED WITHIN A 500 MILE RADIUS OF THE PROJECT SITE WHERE AVAILABLE, WITHIN BUDGET, WITHIN FAIR MARKET VALUE AND DO NOT RISK TO THE PROJECT SCHEDULE.

37 FOR ALL NEW WOOD PRODUCTS INCLUDING, BUT NOT LIMITED TO, PARTICLE BOARD, MEDIUM DENSITY FIBERBOARD, PLYWOOD, ORIENTED STRAND BOARD AND WOOD DOORS, THE GENERAL CONTRACTOR SHALL FURNISH MATERIALS THAT CONTAIN NO ADDED UREA-FORMALDEHYDE

38 DETAILS ARE INTENDED TO SHOW THE INTENT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT FIELD CONDITIONS. THESE MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

39 ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER BY MECHANICS AND TRADES PERSONS SKILLED IN THEIR RESPECTIVE TRADES AND IN ACCORDANCE WITH THE BEST ACCEPTED TRADE PRACTICES.

40 THE GENERAL CONTRACTOR SHALL CONFIRM THE AVAILABILITY AND DELIVERY TIMES FOR ALL SPECIFIED MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE WORK UPON RECEIPT OF THE CONSTRUCTION DOCUMENTS. SHOULD THE AVAILABILITY OF SPECIFIED ITEMS DELAY THE ON-TIME COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER / TENANT IMMEDIATELY AND PROPOSE AN EQUIVALENT SUBSTITUTION TO BE REVIEWED BY THE ARCHITECT AND OWNER / TENANT.

41 SUBSTITUTION OF ALL EQUALS SHALL BE ONLY AS APPROVED BY THE ARCHITECT. WHERE THE TERM "OR EQUAL" IS USED THE ARCHITECT SHALL BE THE SOLE JUDGE OF EQUALITY BASED UPON THE INFORMATION FURNISHED BY THE CONTRACTOR. SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BEFORE THEY MAY BE USED.

42 THE GENERAL CONTRACTOR SHALL PREPARE SUBMITTALS FOR REVIEW BY THE ARCHITECT FOR ALL MATERIALS AND EQUIPMENT SPECIFIED. IF THE GENERAL CONTRACTOR, OWNER / TENANT, OR OWNER / TENANT'S REPRESENTATIVE SUBSTITUTES A MATERIAL, METHOD OF ATTACHMENT, REVISES A CONSTRUCTION DETAIL OR IN ANY WAY ALTERS THE WORK SUCH THAT IT NO LONGER CONFORMS TO THESE DOCUMENTS WITHOUT THE WRITTEN ACCEPTANCE OF THE ARCHITECT, SUCH ACTION CONSTITUTES ACCEPTANCE OF FULL LIABILITY BY THE GENERAL CONTRACTOR OF ANY AND ALL COMPONENTS, SYSTEMS OR ITEMS AFFECTED BY THE SUBSTITUTION. FURTHER, SUCH SUBSTITUTION WILL RELIEVE THE ARCHITECT OF ANY RESPONSIBILITY OR LIABILITY INCLUDING, BUT NOT LIMITED TO, AESTHETIC CONSEQUENCES, SUBSEQUENT FAILURE(S) AND PERSONAL OR PROPERTY DAMAGE ATTRIBUTABLE TO THIS CHANGE.

43 REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

44 SUBMITTALS THAT CONTAIN EXCESSIVE ERRORS OR ARE INCOMPLETE OR INADEQUATE MAY BE RETURNED WITHOUT ACTION. COSTS INCURRED FOR THE RESULTANT DELAYS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

45 REVIEW OF SUBMITTALS SHALL NOT RELIEVE THE GENERAL CONTRACTOR OF OBLIGATIONS OR RESPONSIBILITIES FOR DEVIATIONS FROM THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS UNLESS THE ARCHITECT IS NOTIFIED AND SPECIFICALLY APPROVES OF, IN WRITING, THE DEVIATIONS AT THE TIME OF SUBMISSION.

46 REVIEW OF SUBMITTALS SHALL NOT RELIEVE THE GENERAL CONTRACTOR'S OBLIGATION FOR COORDINATION NOR WAIVE RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SUBMITTALS INCLUDING, BUT NOT LIMITED TO, FIELD VERIFICATION AND MEASUREMENTS.

47 CHANGES IN THE SCOPE OF WORK OR IN CONSTRUCTION DETAILS, WHETHER DUE TO FIELD CONDITIONS OR OMISSIONS BY THE GENERAL CONTRACTOR, ARCHITECT OR OWNER / TENANT, SHALL BE DOCUMENTED BY THE ARCHITECT AND APPROVED PRIOR TO EXECUTION.

49 UPON SUBSTANTIAL COMPLETION OF WORK THE GENERAL CONTRACTOR SHALL PREPARE A PUNCH LIST OF CORRECTIONS AND UNSATISFACTORY AND / OR INCOMPLETE WORK FOR REVIEW BY THE OWNER / TENANT AND ARCHITECT.

50 THE CONTRACTOR SHALL MAINTAIN ON SITE ONE RECORD COPY OF ALL DRAWINGS, PERMITS, SUBMITTALS AND SAMPLES IN AN ORDERED STATE CONSISTENT WITH THE CONSTRUCTION DOCUMENTS ON WHICH TO RECORD ALL CHANGES DURING CONSTRUCTION. ACCESS TO THESE SHALL BE PROVIDED FOR THE USE OF ALL TRADES, OWNER / TENANT AND ARCHITECT DURING ALL PHASES OF CONSTRUCTION.

51 DURING THE COURSE OF CONSTRUCTION, ACTUAL LOCATIONS FOR ALL RUNS OF MECHANICAL AND ELECTRICAL WORK INCLUDING CONCEALED WORK WHICH DEVIATES FROM THE DRAWINGS SHALL BE INDICATED TO SCALE IN RED INK ON THE OWNER / TENANT'S RECORD DRAWINGS. UPON COMPLETION OF THE PROJECT, INCLUDING ALL PUNCH LIST ITEMS, THIS INFORMATION SHALL BE NEATLY TRANSFERRED BY THE CONTRACTOR TO A SET OF DRAWINGS WHICH SHALL BE MARKED "AS BUILT SET". COPIES SHALL BE PROVIDED TO BOTH THE OWNER / TENANT, ARCHITECT AND STORED ON SITE AT THE LOCATION AND IN THE MANNER INDICATED IN THE CONSTRUCTION DOCUMENTS. WITHIN THREE (3) WEEKS (15 BUSINESS DAYS) OF THE RECEIPT OF THE "AS BUILT SET," APPROVAL FOR FINAL PAYMENT TO THE CONTRACTOR SHALL BE GRANTED OR REASONABLE CAUSE SHOWN WHY SUCH APPROVAL HAS BEEN DENIED.

52 PRIOR TO THE COMPLETION OF THE WORK, THE GENERAL CONTRACTOR SHALL ASSEMBLE AND FURNISH THE CLIENT A COMPLETE SET OF MANUFACTURERS' CATALOG, OPERATING INSTRUCTIONS, START-UP CHECK LISTS, MAINTENANCE INSTRUCTIONS AND SIMILAR DATA AS WELL AS ALL GUARANTEES AND / OR WARRANTEES FOR ALL EQUIPMENT AND OPERABLE DEVICES FURNISHED OR INSTALLED BY THE GENERAL CONTRACTOR UNDER THIS CONTRACT AND SHALL ORIENT AND INSTRUCT THE PERSONNEL DESIGNATED BY THE OWNER / TENANT IN THE OPERATION OF ALL SUCH EQUIPMENT.

53 THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER / TENANT IN THE EVENT THAT MOLD OR ASBESTOS IS UNCOVERED DURING THE PROGRESSION OF THE WORK. THE OWNER / TENANT SHALL RETAIN A QUALIFIED CONSULTANT WHO SHALL ARRANGE FOR THE PROMPT IDENTIFICATION, TESTING, TREATMENT, REMEDIATION AND STORAGE OF THE MOLD OR ASBESTOS AS REQUIRED BY LAW AND GOOD CONSTRUCTION PRACTICES. THE ARCHITECT SHALL BEAR NO RESPONSIBILITY FOR WORK RELATED TO THESE MATERIALS.

54 THE GENERAL CONTRACTOR IS ADVISED THAT THE PREMISE HAS NOT BEEN TESTED FOR LEAD PAINT OR OTHER POTENTIALLY HAZARDOUS MATERIALS. THE GENERAL CONTRACTOR SHALL USE ALL APPROPRIATE PRECAUTIONS AND / OR NECESSARY ACTIONS AS REQUIRED BY CODES OR REGULATIONS HAVING JURISDICTION OVER SUCH MATERIALS WHILE CARRYING OUT OF ALL CONSTRUCTION OPERATIONS.

55 THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL CARRY PROPERTY DAMAGE AND PUBLIC LIABILITY INSURANCE AS REQUIRED BY ANY GOVERNING AGENCIES HAVING JURISDICTION AND COMPLYING WITH STATUTORY REQUIREMENTS FOR DISABILITY AND WORKMEN'S COMPENSATION AND AS REQUIRED BY CONTRACT.

ARCHITECT OF RECORD SHALL REVIEW AND EDIT THESE NOTES AS REQUIRED FOR PROJECTS THAT ARE USING BOOK SPECIFICATIONS THESE ARE NOT TO BE USED AS THEY ADDRESS GENERAL CONDITIONS ITEMS. MOST PROJECTS WILL NOT USE THIS ENTIRE LIST AND WILL NEED TO REVIEWED AND EDITED

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No.	DATE	Revision

Designed:	Designer
Drawn:	Author
Checked:	Checker
Job No.:	M7030.1
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GENERAL INFORMATION AND ABBREVIATIONS

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
G002

PROJECT SUMMARY / SCOPE OF WORK

THIS PROJECT CONSISTS OF A NEW 756 SF (APPROX.) CANOPY AJACENT TO EXISTING FACLITY BUILDING, REMODELING OF FIXTURES AND FINISHED IN THE EXISTING LOCKER/ RESTROOM/ SHOWER AREAS OF MEN'S & WOMEN'S AND SITE IMPROVEMENTS FOR THE CITY OF MOUNT DORA. THE PROPOSED CANOPY WILL BE STRUTRAL COLUMNS AND ENGINEERED WOOD ROOF STRUTURE.

AUTHORITIES HAVING JURISDICTION

BUILDING:	CITY OF MOUNT DORA, FL
FIRE / LIFE SAFETY:	CITY OF MOUNT DORA FIRE PREVENTION

ABBREVIATIONS

N/A	NOT APPLICABLE AS PART OF THIS PROJECT	FSD	FIRE SEPARATION DISTANCE
AGP	ABOVE GRADE PLANE - STORY	AHJ	AUTHORITY HAVING JURISDICTION
FDVA	FIRE DEPARTMENT VEHICLE ACCESS	OL	OCCUPANT LOAD

APPLICABLE CODES

BUILDING:	(A)	2020	FLORIDA BUILDING CODE 7TH EDITION
FIRE:	(B1)	2020	FLORIDA FIRE PREVENTION CODE 7th EDITION
	(B2)	2020	NFPA 1, FIRE CODE - FLORIDA AMENDED 7th EDITION
LIFE SAFETY:	(C)	2020	NFPA 101, LIFE SAFETY CODE - FLORIDA AMENDED 7th EDITION
PLUMBING:	(D)	2020	FLORIDA BUILDING CODE 7th EDITION - PLUMBING
FUEL / GAS:	(E)	2020	FLORIDA BUILDING CODE 7th EDITION - FUEL GAS
MECHANICAL:	(F)	2020	FLORIDA BUILDING CODE 7th EDITION - MECHANICAL
ELECTRICAL:	(G1)	2020	FLORIDA BUILDING CODE 7th EDITION - CHAPTER 27
	(G2)	2017	NFPA 70, NATIONAL ELECTRICAL CODE (BY REFERENCE)
ENERGY:	(H)	2020	FLORIDA BUILDING CODE 7th EDITION - ENERGY CONSERVATION
ACCESSIBILITY:	(J)	2020	FLORIDA BUILDING CODE 7th EDITION - ACCESSIBILITY
EXISTING:	(K)	2020	FLORIDA BUILDING CODE 7th EDITION - EXISTING
OTHER:			- RESERVED -

ALTERATION LEVEL

(K) Chapter 5

NOT APPLICABLE

USE & OCCUPANCY CLASSIFICATION

FBC - BUILDING (A) CHAPTER 3	FFPC: (B1) CHAPTER 6 / NFPA 101: (C) CHAPTER 40, 42
NON-SEPERATED MIXED USES: A-3 ASSEMBLY B BUSINESS	MIXED OCCUPANCY: ASSEMBLY (A) BUSINESS (B)

TYPES OF CONSTRUCTION

(A) CHAPTER 6

TYPE V-B CONSTRUCTION, NON-SPRINKLERED (FBC TABLE 503)

BUILDING AREA BY CONSTRUCTION TYPE

(F.B.C. Chapter 5 - General Building Heights and Areas)

ALOWABLE BUILDING AREA:	6,000 SF
ACTUAL BUILDING AREA:	756 SF CANOPY / 1,971 SF BUILDING

FIRE RESISTANCE OF BLDG. ELEMENTS BY CONSTRUCTION TYPE

(A) CHAPTER 6

OCCUPANCY:	OCCUPANCY:
PRIMARY STRUCT. FRAME:	0 HOURS
BEARING WALLS - EXT:	0 HOURS
BEARING WALLS - INT:	0 HOURS
NONBEARING WALLS - EXT:	SEE TABLE 602
NONBEARING WALLS - INT:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
CORRIDORS:	1 HOUR (FBC 1020.1 / NFPA 14.3.6(2)a)
EXIT STAIRS:	*NOT APPLICABLE*
FLOOR OPENINGS / SHAFTS:	1 HOUR (FBC 708.4 / NFPA 8.6.5(2)

NOTE: REFER TO GENERAL INFORMATION SHEETS FOR APPLICABLE UL ASSEMBLIES TO PROVIDE REQUIRED FIRE RESISTANCE OF BLDG. ELEMENTS

BUILDING HEIGHT BY CONSTRUCTION TYPE

(F.B.C. Chapter 5 - General Building Heights and Areas)

ALLOWABLE HEIGHT:	2 STORIES / 40 FT.
ACTUAL BUILDING HEIGHT:	1 STORIES / 18' - 3" BUILDING

NOTE: ASSEMBLY OCCUPANCY IS THE LIMITING OCCUPANCY TYPE FOR THIS MIXED OCCUPANCY BUILDING

OPENING PROTECTIVES IN FIRE RESISTANT CONSTRUCTION

CONSTRUCTION TYPE	FIRE RESISTANCE RATING
1 - HOUR FIRE BARRIER:	3/4 HOUR
2 - HOUR FIRE BARRIER	1 1/2 HOUR
1- HOUR EXIT ENCLOSURE	1 HOUR
SMOKE PARTITION	N/A

INTERIOR FINISHES

(per NFPA 101 14.3.3.2 - more stringent than FBC)

CONSTRUCTION TYPE	FIRE RESISTANCE RATING
EXITS	CLASS A
EXIT ACCESS CORRIDORS	CLASS B
OTHER THAN EXITS	CLASS C
LOW HEIGHT PARTITIONS	CLASS C (SEE NOTE 1)
INTERIOR FLOOR FINISHES	CLASS II
GENERAL ASSEMBLY AREAS (>300)	CLASS B
ASSEMBLY AREAS (<300)	CLASS C

NOTES:
1. PARTITIONS NOT EXCEEDING 60 INCHES AND IN LOCATIONS OTHER THAN EXITS

EGRESS COMPONENTS

MIN. NUMBER OF EXITS:	2 (PER F.B.C. TABLE 1006.3.2)
MAX. TRAVEL DISTANCE:	200 FT. (PER F.B.C TABLE 1017.2 & NFPA 101 14.2.6.3)
MAX. COMMON PATH OF TRAVEL:	75 FT. (PER F.B.C TABLE 1006.3.3 & NFPA 101 14.2.5.3)
MAX. DEAD END CORRIDOR:	20 FT. (PER F.B.C. SECTION 1020.4 & NFPA 14.2.5.2)
MIN. CORRIDOR WIDTH:	44-IN (PER FBC TABLE 1020.2) / 6 FT. CLEAR (PER NFPA 101 14.2.3.2)
MIN. STAIR WIDTH:	*NOT APPLICABLE*
MIN. DOOR WIDTH:	0.2" PER PERSON (PER F.B.C. 1005.1 & NFPA 7.3.3.1)

FIRE ALARM AND PROTECTION SYSTEMS

FIRE SUPPRESION SYSTEM (ESFR)	NO	FIRE ALARM SYSTEM	NO
AUTOMATIC FIRE DETECTION SYSTEM	NO	SMOKE CONTROL SYSTEM	NO
SUPERVISION	NO		

OCCUPANT LOADS

THE CALCULATED OCCUPANT LOAD RESULTS IN A TOTAL BUILDING POPULATION FOR EGRESS OF **31 PERSONS** AS INDICATED BELOW. REFER TO EGRESS CAPACITY TABLES BELOW FOR EGRESS BY FLOOR OR AREA. REFER TO THE LIFE SAFETY DRAWINGS FOR THE OCCUPANCY SCHEDULES.

LEVEL	OCCUPANT LOAD	PROVIDED EGRESS
TOTAL CAPACITY FOR EGRESS	31 PERSONS	31 PERSONS

EGRESS CAPACITY

REFER TO THE LIFE SAFETY DRAWINGS FOR THE LOCATION AND CAPACITY OF ALL EGRESS COMPONENTS

EXITS

LEVEL	EXIT WIDTH - REQUIRED	EXIT WIDTH - PROVIDED
FIRST FLOOR	31 PERSONS X 0.2" = **6.2 INCHES**	**108 INCHES**

ADDITIONAL CODE INFORMATION

VERTICAL OPENINGS - COMMUNICATING SPACE

THE COMMONS AREA IS BEING DESIGNED AS A COMMUNICATING SPACE IN ACCORDANCE WITH THE 2010 NFPA 101: FLORIDA EDITION, SECTION 8.6.6.

- THE COMMUNICATING SPACE DOES NOT CONNECT MORE THAN THREE CONTIGUOUS STORIES.
- THE LOWEST STORY OF THE COMMUNICATING SPACE IS AT STREET / GROUND LEVEL.
- THE ENTIRE FLOOR WITHIN THE COMMUNICATING SPACE IS OPEN AND VISUALLY UNOBSTRUCTED SUCH THAT A FIRE IN ANY PART OF THE SPACE WILL BE READILY OBVIOUS TO THE OCCUPANTS OF THE SPACE PRIOR TO THE TIME IT BECOMES AN OCCUPANT HAZARD.
- THE COMMUNICATING SPACE IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY A SMOKE BARRIER IN ACCORDANCE WITH NFP 101 SECTION 8.5 AS REQUIRED FOR BUILDINGS WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM.
- THE COMMUNICATIN SPACE HAS ORDINARY HAZARD CONTENTS PROTECTED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM.
- EGRESS CAPACITY IS SUFFICIENT TO ALLOW ALL OCCUPANTS OF ALL LEVELS WITHIN THE COMMUNICATING SPACE TO SIMULTANEOUSLY EGRESS THE COMMUNICATING SPACE BY CONSIDERING IT AS A SINGLE FLOOR AREA IN DETERMINING THE REQUIRED EGRESS CAPACITY.
- EACH OCCUPANT WITHIN THE COMMUNICATING SPACE HAS ACESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO TRAVERSE ANOTHER STORY WITHIN THE COMMUNICATING SPACE.
- EACH OCCUPANT NOT IN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO ENTER THE COMMUNICATING SPACE.

LIFE SAFETY LEGEND

- DENOTES SMOKE PARTITION
- DENOTES 1 HOUR FIRE RATED CONSTRUCTION
- DENOTES 2 HOUR FIRE RATED CONSTRUCTION
- DENOTES 3 HOUR FIRE RATED CONSTRUCTION
- DENOTES 4 HOUR FIRE RATED CONSTRUCTION

ROOM CAPACITY TAG

NAME — ROOM NAME
SF — NET OR GROSS ROOM AREA PER LIFE SAFETY CODE
— ROOM OCCUPANT CAPCITY
— OCCUPANCY MODIFIER PER LIFE SAFETY CODE

DOOR CAPACITY TAG

? — EGRESS CAPACITY OF DOOR PER LIFE SAFETY CODE
ARROW INDICATES DIRECTION OF TRAVEL

NOTES:
1.REFER TO TRAVEL DISTANCE SCHEDULE FOR TRAVEL DISTANCES
2.ALL SIGNAGE INCLUDING MAXIMUM OCCUPANCY, FIRE EXTINGUISHER INSIDE, EXIT DIAGRAMS, ETC. TO BE IN ACCORDANCE WITH S.R.E.F. STANDARDS AND REQUIREMENTS.

EMERGENCY LIGHTING SEE ELECTRICAL

A — SEE EGRESS PATH SCHEDULE

MAX DISTANCE OF TRAVEL (FBC): 250'-0"

FE-1 — 10# CLASS K FIRE EXTINGUISHER ON WALL BRAKET. PROVIDE WITHIN 30 FEET MAX. TRAVEL DISTANCE IN KITCHEN

EXIT SIGNAGE WITH EMERGENCY LIGHTING

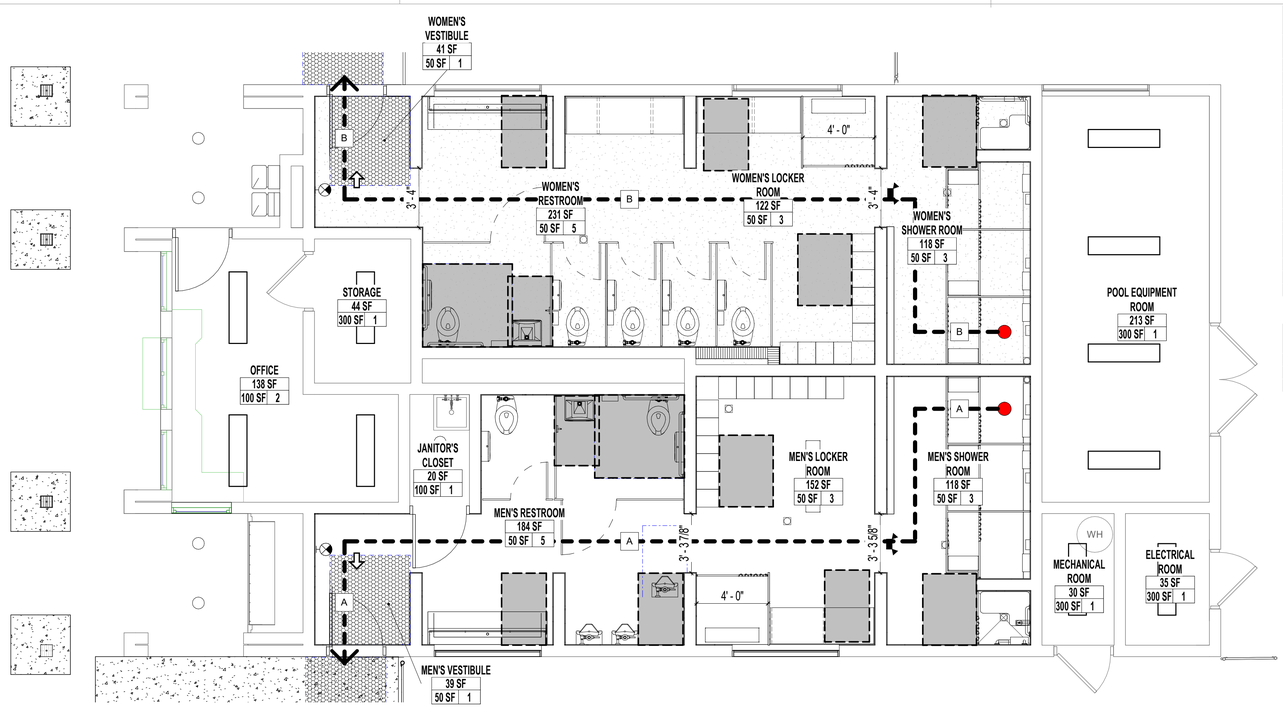
PRIMARY EGRESS

5'-0" DIAMETER CLEAR FLOOR AREA

30" x 48" CLEAR FLOOR AREA

36" x 48" CLEAR FLOOR AREA

DOOR CLEAR FLOOR AREA



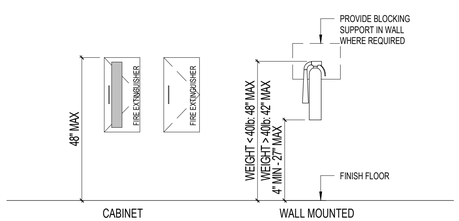
A1 LIFE SAFETY PLAN
1/4" = 1'-0"

OCCUPANT LOAD SCHEDULE

Name	Area	AREA PER OCCUPANT	TOTAL OCCUPANTS
INFORMATION AREA	57 SF		
VENDING AREA	38 SF		
JANITOR'S CLOSET	20 SF	100 SF	1
STORAGE	44 SF	300 SF	1
WOMEN'S RESTROOM	231 SF	50 SF	5
WOMEN'S LOCKER ROOM	122 SF	50 SF	3
WOMEN'S SHOWER ROOM	118 SF	50 SF	3
MEN'S SHOWER ROOM	118 SF	50 SF	3
MEN'S LOCKER ROOM	152 SF	50 SF	4
MEN'S RESTROOM	184 SF	50 SF	4
MEN'S VESTIBULE	39 SF	50 SF	1
WOMEN'S VESTIBULE	41 SF	50 SF	1
POOL EQUIPMENT ROOM	213 SF	300 SF	1
ELECTRICAL ROOM	35 SF	300 SF	1
MECHANICAL ROOM	30 SF	300 SF	1
OFFICE	138 SF	100 SF	2
TOTAL OCCUPANTS			31

EGRESS PATH

EGRESS PATH	EGRESS DISTANCE
A	51' - 0"
B	51' - 0"



FIRE EXTINGUISHERS SHALL BE LOCATED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-1, SECTION 13.6 AND NFPA-10 OF THE FLORIDA FIRE PROTECTION CODE (FFPC), LOCATED SO THAT ALL AREAS ARE WITHIN 75' OF AN EXTINGUISHER. QUANTITY AND LOCATIONS WILL BE REVIEWED AND APPROVED WITH THE AUTHORITY HAVING JURISDICTION.

- PROVIDE ABC DRY CHEMICAL TYPE 2A-10BC, OR EQUIVALENT, LIGHT HAZARD EXTINGUISHER, TYP. WALL MOUNTED OR CABINET PER PLAN.

FIRE EXTINGUISHER LEGEND

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Surveyor No. 7143

Architect of Record
##/##/2021
TBD-Arch License
CPH, INC.

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	Designer
Drawn:	Author
Checked:	Checker
Job No.:	M7030.1
10/22/2021	© 2021

LIFE SAFETY PLAN

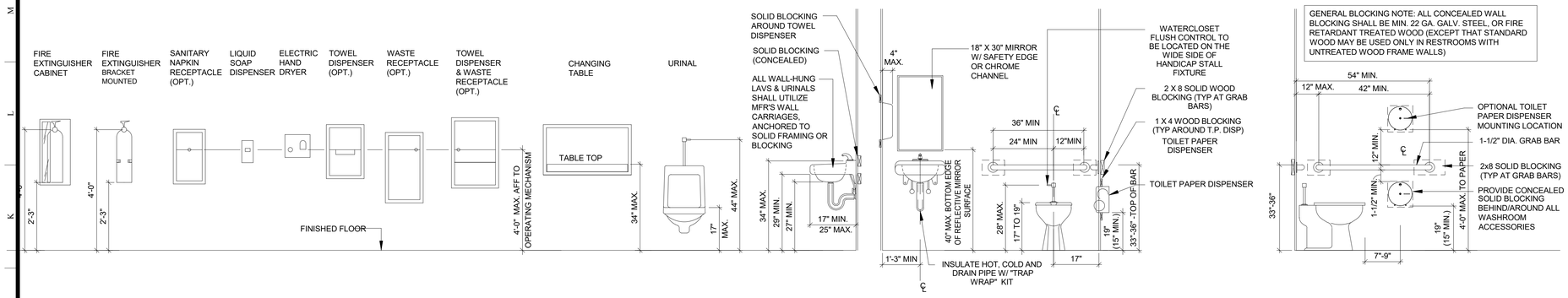
MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
G101

RESTROOM FIXTURE & ACCESSORY ELEVATIONS



GENERAL BLOCKING NOTE: ALL CONCEALED WALL BLOCKING SHALL BE MIN. 22 GA. GALV. STEEL, OR FIRE RETARDANT TREATED WOOD (EXCEPT THAT STANDARD WOOD MAY BE USED ONLY IN RESTROOMS WITH UNTREATED WOOD FRAME WALLS)

GENERAL NOTES

TOILET ROOM FIXTURES AND ACCESSORIES SHALL BE CERTIFIED BY MANUFACTURER FOR COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT. ALL FIXTURES SHALL BE MOUNTED AT HEIGHTS AND WITH CLEARANCES AS REQUIRED BY ADA, AND AS FOLLOWS:

FLUSH CONTROL FOR THE TOILET SHALL BE LOCATED NOT MORE THAN 28" AFF, AND SHALL BE OPERABLE WITH MAX. 5 LB. FORCE.

GRAB BARS SHALL BE PROVIDED AT EACH TOILET, MOUNTED W/ TOP FROM 33" TO 36" AFF. MOUNT GRAB BARS INTO CONCEALED, SOLID WOOD BLOCKING AS REQUIRED TO RESIST 250 PLF FORCE APPLIED TO GRAB BAR AT ANY POINT IN ANY DIRECTION GRAB BARS SHALL BE FROM 1-1/4" TO 1-1/2" IN DIAMETER AND SHALL PROTECT AT LEAST 1-1/2" FROM WALL PROVIDE CONCEALED FASTENERS WITH TRIM SCUTCHEON . TOILET PAPER DISPENSERS SHALL BE INSTALLED BELOW GRAB BAR ON SIDE WALL AT LEAST 15" AFF AND A MAXIMUM OF 36" AWAY FROM REAR WALL. PROVIDE CONCEALED SOLID BLOCKING. PAPER TOWEL DISPENSERS SHALL BE MOUNTED ON WALL BESIDE EACH LAV, WITH DISPENSER SLOT NOT MORE THAN 44" AFF. PROVIDE SOLID WOOD BLOCKING IN WALL AROUND ROUGH OPENING. WALL HUNG LAV SHALL BE MOUNTED WITH FRONT ROOM AT 2'-10" AFF MAX.

MIRRORS SHALL HAVE POLISHED SAFETY EDGE OR CHROME CHANNEL EDGE, AND SHALL BE MOUNTED ABOVE EACH LAV. W/BOTTOM AT 40" AFF. MIRRORS SHALL BE MIN. 18" WIDE X 30" HEIGHT.

SIGNAGE LEGEND

1. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS

-ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE.

-ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILETS ARE CLUSTERED AT A SINGLE LOCATION.

-ACCESSIBLE CHECK-OUT AISLES WHERE NOT ALL AISLES ARE ACCESSIBLE. THE SIGN, WHERE PROVIDED, SHALL BE ABOVE THE CHECK-OUT AISLE IN THE SAME LOCATION AS THE CHECK-OUT AISLE NUMBER OR TYPE OF CHECK-OUT IDENTIFICATION.

-UNISEX TOILET AND BATHING ROOMS.

-ACCESSIBLE DRESSING, FITTING AND LOCKER ROOMS WHERE NOT ALL SUCH ROOMS ARE ACCESSIBLE.

2. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

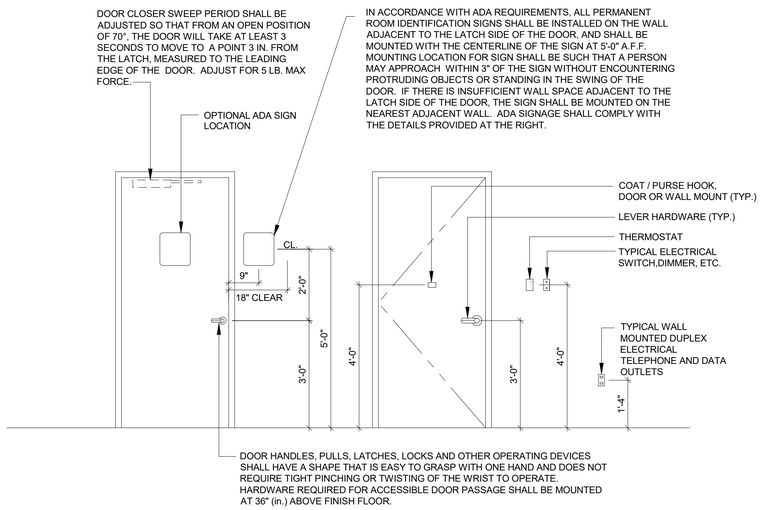
-AT EACH SEPARATE-SEX TOILET INDICATING THE LOCATION OF THE NEAREST UNISEX TOILET.

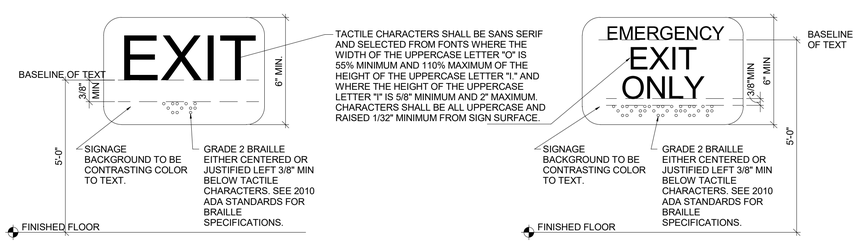
3. TACTILE SIGNAGE SHALL BE LOCATED ON THE WALL TO THE DOOR'S LATCH SIDE AT A HEIGHT OF 60" AFF TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER. SIGNS MAY BE PLACED ON THE NEAREST ADJACENT WALL WHEN THERE IS NO WALL SPACE ON THE LATCH SIDE.

4. CHARACTER AND SYMBOLS OF SIGNS SHALL BE IN CONTRAST WITH THEIR BACKGROUND AND SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE MATERIALS OR FINISHES.

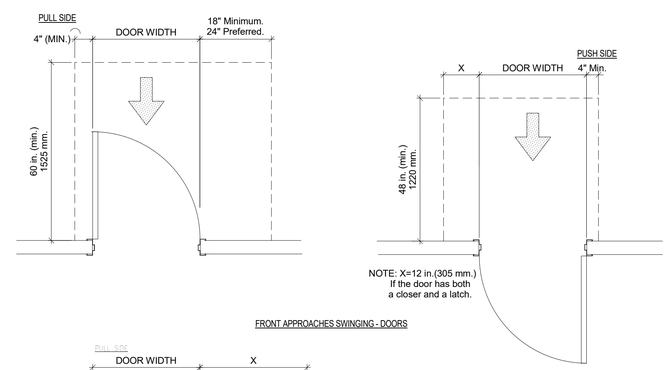
5. ACCESSIBLE SIGNAGE SHALL USE GRADE II BRAILLE AND MUST COMPLY WITH ANSI A117.1 SECTION 703.4.

MISC. ADA REQUIREMENTS

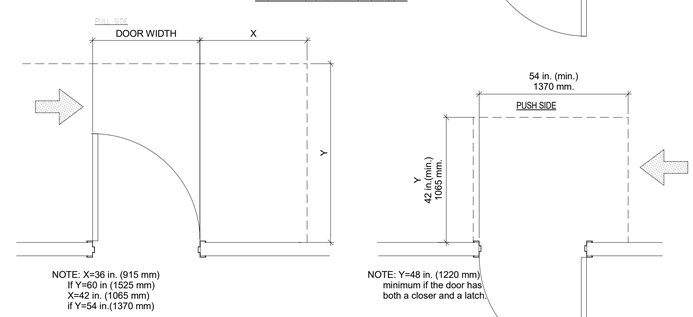




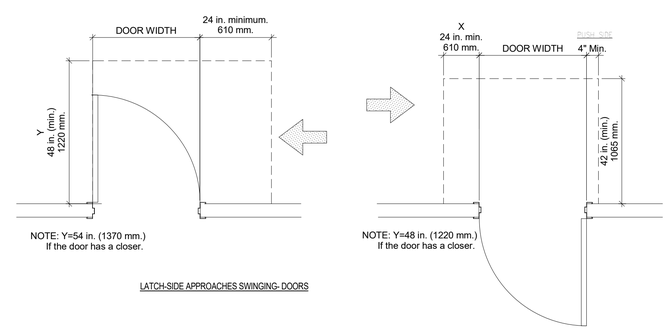
MANEUVERING CLEARANCE AT DOORS



FRONT APPROACHES SWINGING - DOORS

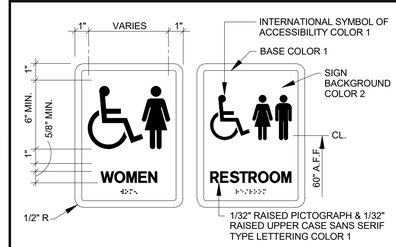


HINGE-SIDE APPROACHES - SWINGING DOORS



LATCH-SIDE APPROACHES SWINGING- DOORS

RESTROOM SYMBOLS



ALL PERMANENT ROOM IDENTIFICATION SIGNS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.

SIGNS SHALL BE ADHERED TO SUPPORTING SURFACE BY ADHESIVE, SELECTED FOR HIGH STRENGTH AND DURABILITY OF BOND BETWEEN SIGN BACKING AND SUPPORTING SURFACE MATERIAL.

SIGN BACKGROUND SHALL BE MINIMUM 1/8" THICK ACRYLIC PLATE. BACKGROUND COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS, AND SHALL PROVIDE AT LEAST 70% CONTRAST WITH WHITE FOREGROUND LETTERS. BACKGROUND FINISH SHALL BE NON-GLARE.

ACRYLIC LETTERING SHALL BE RAISED AT LEAST 1/32", AND MAY BE ACHIEVED THROUGH SURFACE APPLICATION, ETCHING OR INJECTION MOLDING.

ALL LETTERS SHALL BE UPPER CASE. LETTER SIZE SHALL BE AS INDICATED, BUT IN NO CASE LESS THAT 5/8" HIGH OR GREATER THAN 2" HIGH. TYPE STYLE SHALL BE HELVETICA MEDIUM, AND COLOR SHALL BE NON-GLARE WHITE.

WHERE MORE THAN ONE ROW OF LETTERING IS REQUIRED, THE LEADING (BLAND SPACE) BETWEEN ROWS SHALL BE APPROXIMATELY 80% OF THE HEIGHT OF THE LETTERING.

GRADE 2 BRAILLE REQUIRED, COLOR TO BE SAME AS SIGN BACKGROUND.

INTERNATIONAL PICTOGRAM SYMBOLS, WHERE REQUIRED, SHALL BE RAISED AT LEAST 1/32" (SIMILAR TO LETTERS), AND SHALL HAVE A MINIMUM 6" HIGH VERTICAL FIELD. THE EQUIVALENT VERBAL DESCRIPTION (TEXT) OF THE PICTOGRAM SHALL BE PLACED DIRECTLY BELOW THE PICTOGRAM, AND SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE.

PICTOGRAMS SHALL BE REQUIRED FOR THE FOLLOWING ROOM SIGNS: MEN (MALE ACCESSIBLE RESTROOM) WOMEN (FEMALE ACCESSIBLE RESTROOM)

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CPH, Inc.
State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Architect of Record
##/##/2021
TBD-Arch License
CPH, INC.

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	Designer
Drawn:	Author
Checked:	Checker
Job No.:	M7030.1
10/22/2021	© 2021

ADA SPECIFCATIONS

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

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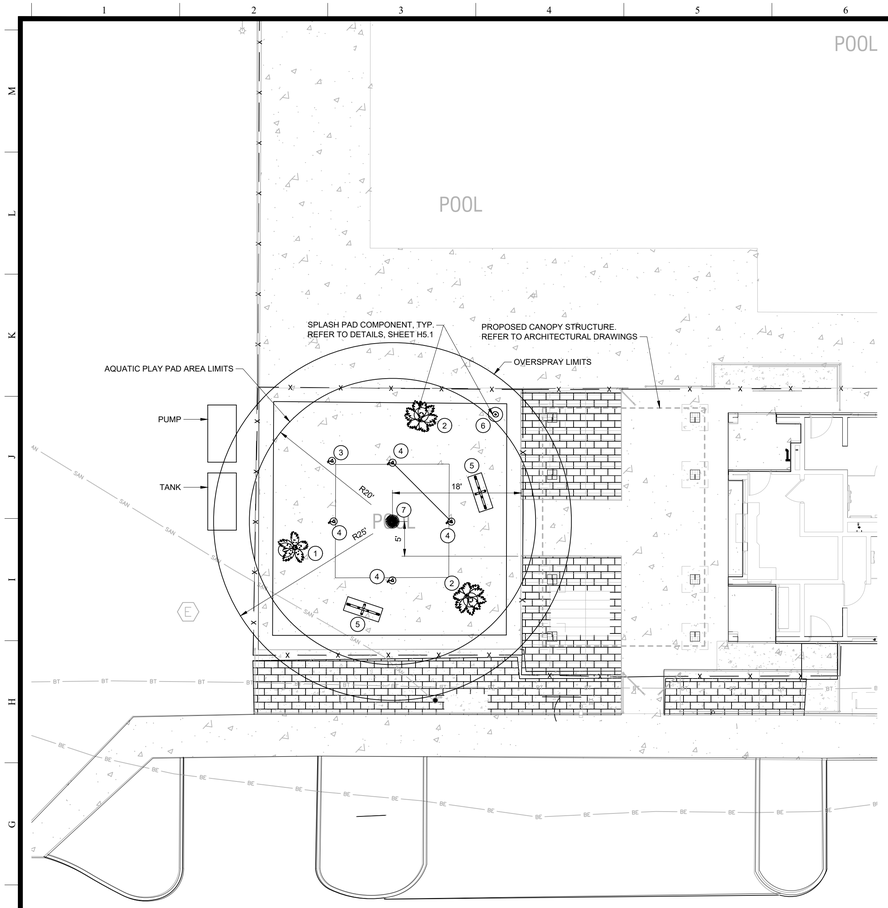
Sheet No.
G102



SPLASH PAD COMPONENT PLAN

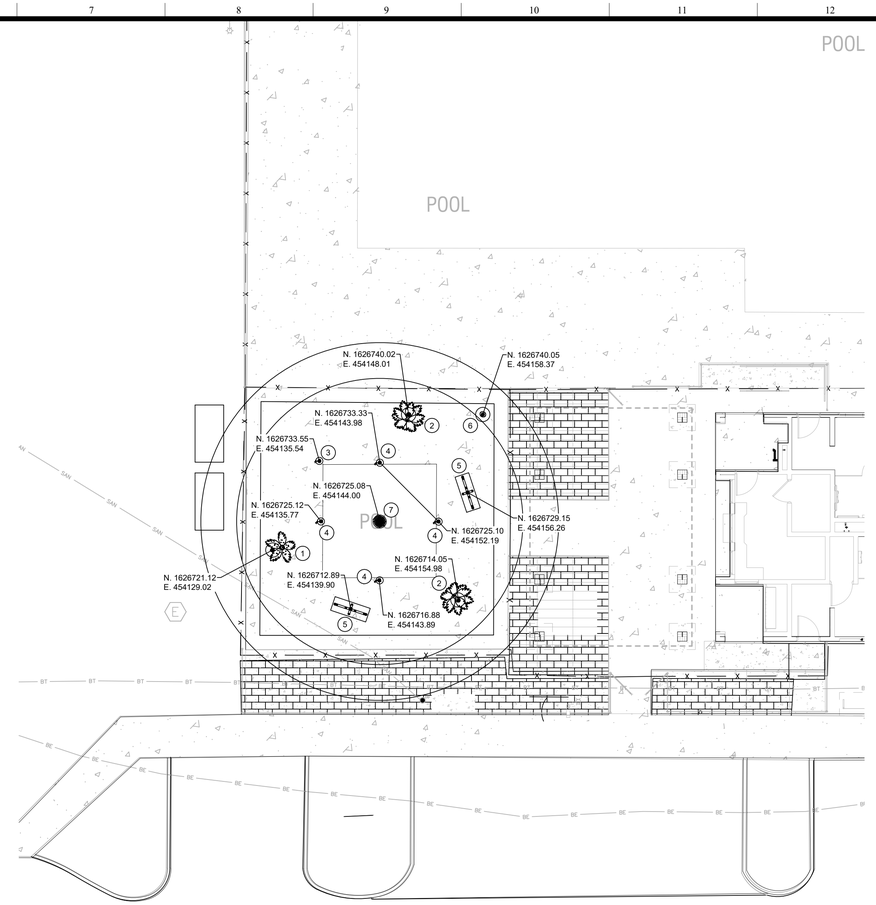
1" = 10'

ITEM	SKU	COMPONENT NAME	QTY
1		FS POLY PALM COCO	1
2		FS POLY PALM WINDY	2
3		GS GEYSER	1
4		GS MISTY MOUNTAIN	4
5		GS SPRAY TUNNEL 4 (THE WAVE)	2
6		ACTIVATOR: POWER POST	1
7		DRAIN -CIRCULAR	1

10 0 10 20

Graphic Scale in Feet

N



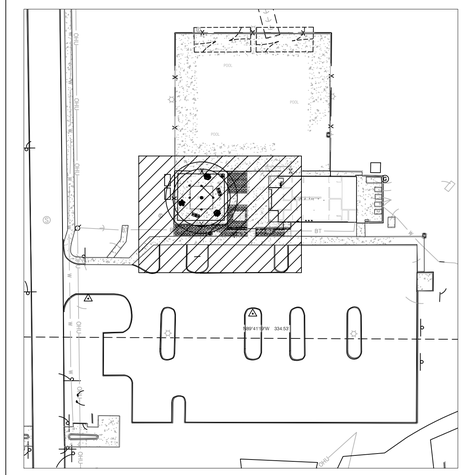
SPLASH PAD COMPONENT LOCATION PLAN

1" = 10'

10 0 10 20

Graphic Scale in Feet

N



KEY MAP

N.T.S.

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Plans Prepared By :

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State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Maxwell D. Spann, RLA
FL. LA6666780
Oct 22, 2021

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	M. Spann
Drawn:	C. Smith
Checked:	M. Spann
Job No.:	M7030.1
10/22/2021	© 2021

HARDSCAPE PLANS

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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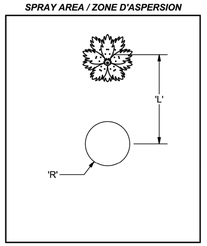
Sheet No.

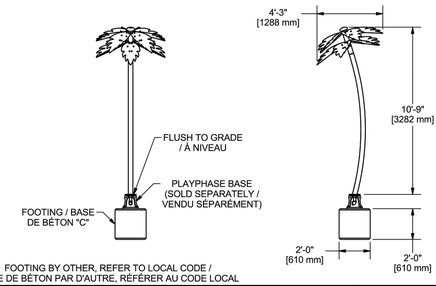
H1.1

FS POLY PALM WINDY — 0010-1682

LIST OF MATERIALS / LISTE DE MATÉRIAUX (IF / SI APPLICABLE)	
BASE MATERIAL / MATÉRIEL	304 STAINLESS STEEL / ACIER INOXYDABLE
NOZZLES / BUSES	ACETAL / ACÉTAL, URETHANE / URÉTHANE
PANELS / PANNEAUX	ACRYLIC / ACRYLIQUE, ALUMINUM / ALUMINUM

SPRAY AREA / ZONE D'ASPERSION





FOOTING BY OTHER, REFER TO LOCAL CODE /
BASE DE BÉTON PAR D'AUTRE, RÉFÉRER AU CODE LOCAL

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOW RATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
28/10	8/2438	-/-	3/11	5/34		
NOZZLES / BUSES	1	MASS:	113.6 lb/mass		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: 0010-1682 SHEET: 1 OF: 1

waterplay 805 CROWLEY AVE. KELOWNA, BRITISH COLUMBIA CANADA, V1Y 7G8 P: 250-712-3380 F: 250-861-4814 E: design@waterplay.com W: waterplay.com

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TOUT LES PLANS ET DESSINS QUE WATERPLAY ONT CONÇUES, LEURS APPARTIENNE ET NE PEUVENT ÊTRE UTILISER OU REPRODUITS SANS AVOIR UNE PERMISSION ÉCRITE DE LEUR PART.

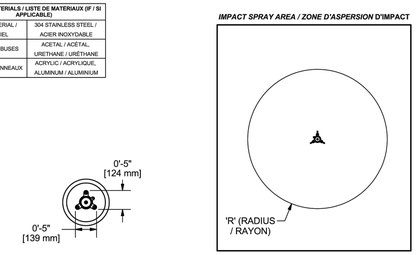
NOTE: REFER TO THE COMPONENT WRITTEN SPECIFICATION DOCUMENT FOR COMPLETE DETAILS. WATERPLAY A LE DROIT DE CHANGER CES DERNIERS SANS PRÉAVIS.

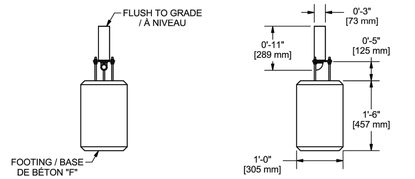
REFEREZ VOUS AU DOCUMENT DE SPÉCIFICATION ÉCRIT POUR LES DETAILS COMPLET DU PRODUIT. WATERPLAY A LE DROIT DE CHANGER CES DERNIERS SANS PRÉAVIS.

GS FOUNTAIN MOUNTAIN — C02-311

LIST OF MATERIALS / LISTE DE MATERIAUX (IF / SI APPLICABLE)	
BASE MATERIAL / MATÉRIEL	304 STAINLESS STEEL / ACIER INOXYDABLE
NOZZLES / BUSES	ACETAL / ACÉTAL, URETHANE / URÉTHANE
PANELS / PANNEAUX	ACRYLIC / ACRYLIQUE, ALUMINUM / ALUMINUM

IMPACT SPRAY AREA / ZONE D'ASPERSION D'IMPACT





FOOTING BY OTHER, REFER TO LOCAL CODE /
BASE DE BÉTON PAR D'AUTRE, RÉFÉRER AU CODE LOCAL

INLET / ENTRÉE	1" F-NPT
ELECTRICAL / ÉLECTRIQUE	-
DRAIN	-

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOW RATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
3/914	-/-	-/-	11/42	3-5/24		
NOZZLES / BUSES	1	MASS:	N/A		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: C02-311 SHEET: 1 OF: 1

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NOTE: REFER TO THE COMPONENT WRITTEN SPECIFICATION DOCUMENT FOR COMPLETE DETAILS. WATERPLAY A LE DROIT DE CHANGER CES DERNIERS SANS PRÉAVIS.

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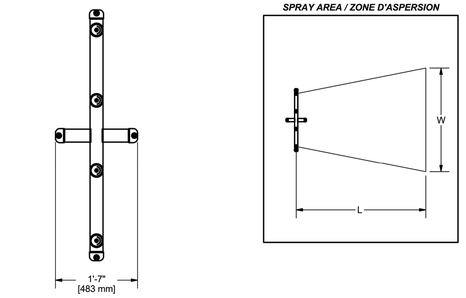
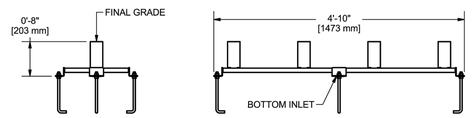
GS SPRAY TUNNEL 4 — 0010-3762

SPRAY AREA / ZONE D'ASPERSION





INLET / ENTRÉE	1-1/2" F-NPT
ELECTRICAL / ÉLECTRIQUE	-
DRAIN / DRAINER	-

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOWRATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
-/-	10/3048	8/2438	15/57	3/21		
NOZZLES / BUSES	4		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]			DRAWING ID: 0010-3762 SHEET: 1 OF: 1

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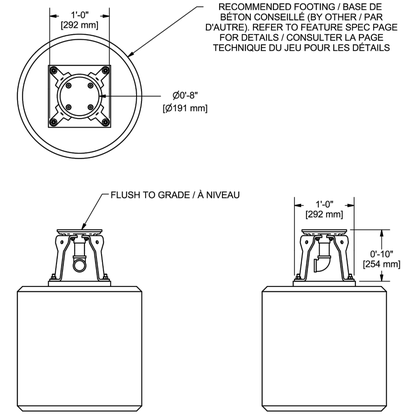
PLAYPHASE BASE — 0010-0507

LIST OF MATERIALS / LISTE DE MATÉRIAUX (IF / SI APPLICABLE)	
BASE MATERIAL / MATÉRIEL	304 STAINLESS STEEL / ACIER INOXYDABLE
NOZZLES / BUSES	ACETAL / ACÉTAL, URETHANE / URÉTHANE
PANELS / PANNEAUX	ACRYLIC / ACRYLIQUE, ALUMINUM / ALUMINUM



FOOTING BY OTHER, REFER TO LOCAL CODE /
BASE DE BÉTON PAR D'AUTRE, RÉFÉRER AU CODE LOCAL

INLET / ENTRÉE	1-1/2" F-NPT
ELECTRICAL / ÉLECTRIQUE	-
DRAIN	-

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOW RATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
-/-	-/-	-/-	-/-	-/-		
NOZZLES / BUSES	-	MASS:	27.5 lb/mass		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: 0010-0507 SHEET: 1 OF: 1

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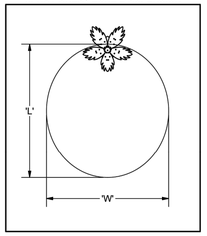
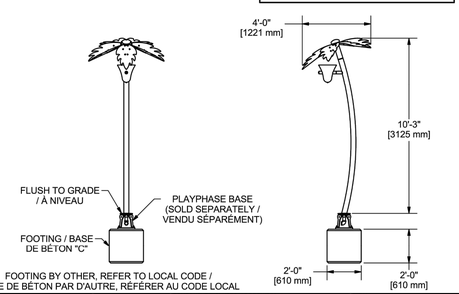
FS POLY PALM COCO — 0010-3555

LIST OF MATERIALS / LISTE DE MATÉRIAUX (IF / SI APPLICABLE)	
BASE MATERIAL / MATÉRIEL	304 STAINLESS STEEL / ACIER INOXYDABLE
NOZZLES / BUSES	ACETAL / ACÉTAL, URETHANE / URÉTHANE
PANELS / PANNEAUX	ACRYLIC / ACRYLIQUE, ALUMINUM / ALUMINUM

SPRAY AREA / ZONE D'ASPERSION





FOOTING BY OTHER, REFER TO LOCAL CODE /
BASE DE BÉTON PAR D'AUTRE, RÉFÉRER AU CODE LOCAL

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOW RATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
-/-	12/3658	11/3353	3/11	5/34		
NOZZLES / BUSES	1	MASS:	90.2 lb/mass		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: 0010-3555 SHEET: 1 OF: 1

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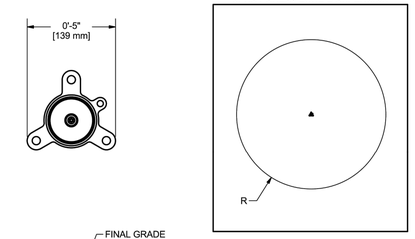
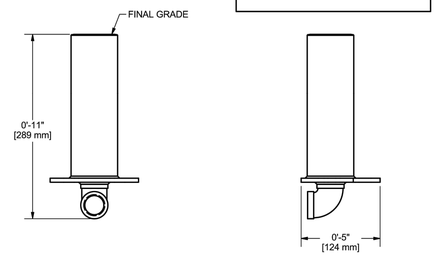
GS GEYSER — C02-312

SPRAY AREA / ZONE D'ASPERSION





INLET / ENTRÉE	1" F-NPT
ELECTRICAL / ÉLECTRIQUE	-
DRAIN / DRAINER	-

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOWRATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
8/2438	-/-	-/-	6/23	5/35		
NOZZLES / BUSES	1	MASS:	N/A		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: C02-312 SHEET: 1 OF: 1

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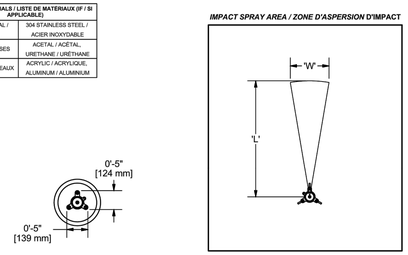
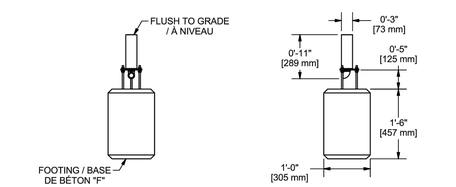
GS TIDAL WAVE — C02-342

LIST OF MATERIALS / LISTE DE MATÉRIAUX (IF / SI APPLICABLE)	
BASE MATERIAL / MATÉRIEL	304 STAINLESS STEEL / ACIER INOXYDABLE
NOZZLES / BUSES	ACETAL / ACÉTAL, URETHANE / URÉTHANE
PANELS / PANNEAUX	ACRYLIC / ACRYLIQUE, ALUMINUM / ALUMINUM

IMPACT SPRAY AREA / ZONE D'ASPERSION D'IMPACT





FOOTING BY OTHER, REFER TO LOCAL CODE /
BASE DE BÉTON PAR D'AUTRE, RÉFÉRER AU CODE LOCAL

INLET / ENTRÉE	1" F-NPT
ELECTRICAL / ÉLECTRIQUE	-
DRAIN	-

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOWRATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
-/-	3/914	1/305	13/49	2/14		
NOZZLES / BUSES	1	MASS:	N/A		DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: C02-342 SHEET: 1 OF: 1

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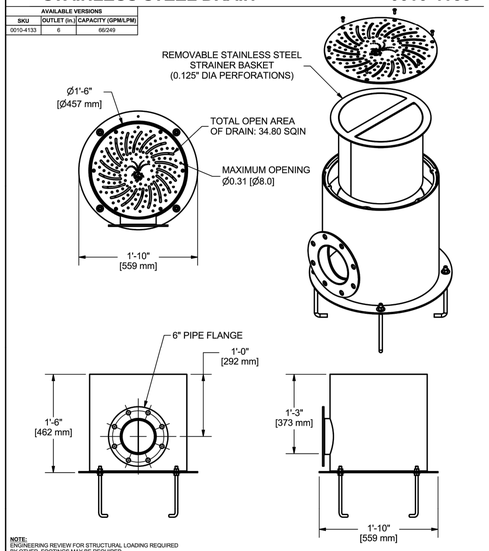
STAINLESS STEEL DRAIN — 0010-4133

AVAILABLE VERSIONS		
SKU	OUTLET (in.)	CAPACITY (GPM/LPM)
0010-4133	6	66/249



NOTE:
ENGINEERING REVIEW FOR STRUCTURAL LOADING REQUIRED BY OTHER. FOOTINGS MAY BE REQUIRED

RECOMMENDED SPRAY AREA / ZONE D'ASPERSION POTENTIELLE			FLOWRATE / DÉBIT D'EAU		COMPONENT INCLUDES: (IF REQUIRED) / INCLUS AVEC LE JEU (SI REQUISE)	INITIAL:
R (ft/mm)	L (ft/mm)	W (ft/mm)	GPM/LPM	PSI/kPa	-SERVICE TOOLS / OUTILS -SPRAY NOZZLES / BUSES DE PERFORMANCE	
-/-	-/-	-/-	-/-	-/-		
NOZZLES / BUSES	-	MASS:			DIMENSIONAL ACCURACY / PRÉCISION DIMENSIONELLE +/- 1" [25mm]	DRAWING ID: 0010-4133 SHEET: 1 OF: 1

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www.cphcorp.com
A Full Service A & E Firm
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
Ph:(407) 322-6841

Plans Prepared By :
CPH, Inc.

State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Maxwell D. Spann, RLA
FL. LA6666780
Oct 22, 2021

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

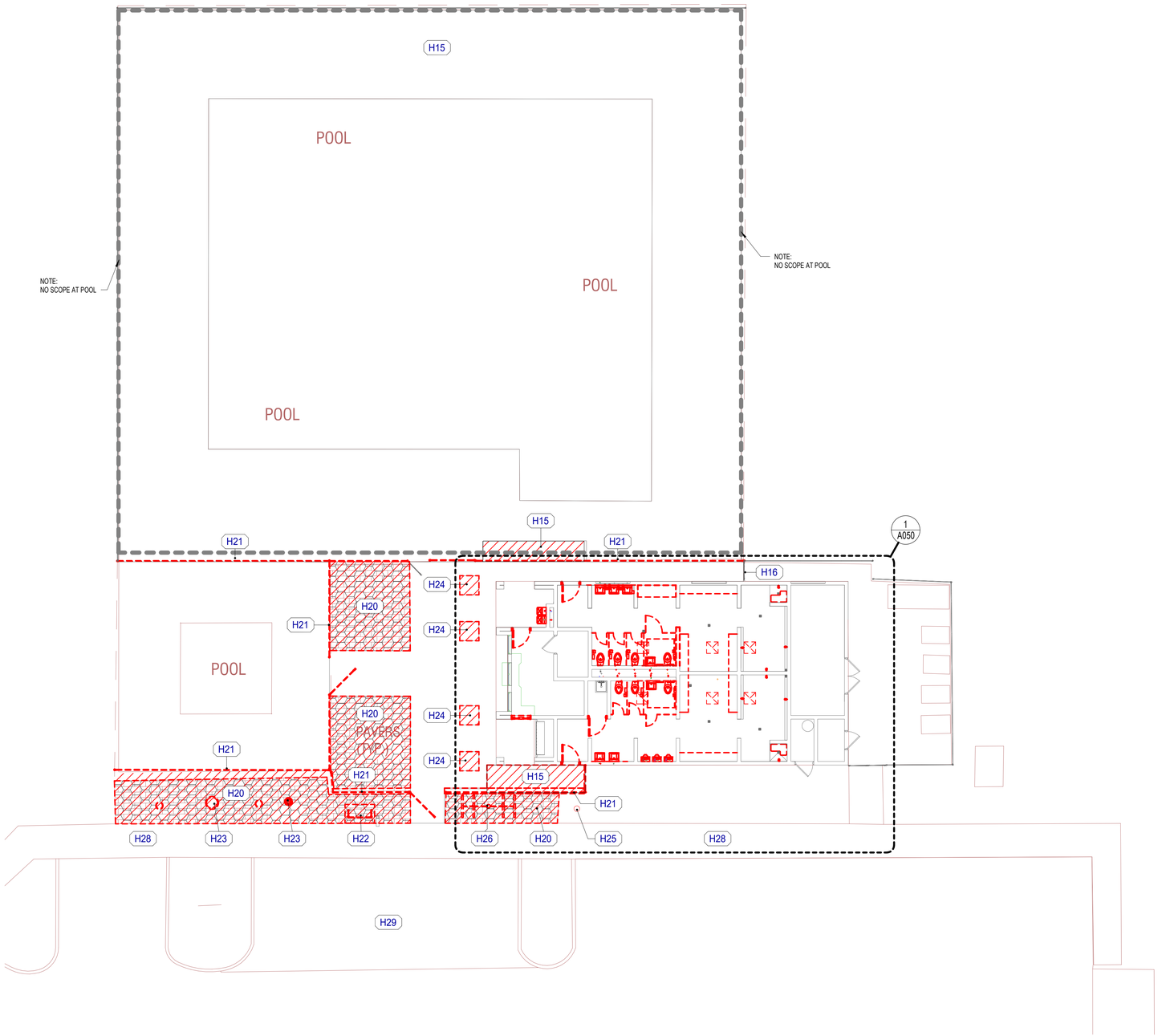
Designed:	M. Spann
Drawn:	C. Smith
Checked:	M. Spann
Job No.:	M7030.1
10/22/2021	© 2021

SPLASH PAD COMPONENT DETAILS

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
H5.1



N

1 ARCHITECTURAL SITE PLAN DEMO
1" = 10'-0"

DEMOLITION PLAN GENERAL NOTES

1 THE FOLLOWING REQUIREMENTS FOR DEMOLITION, CUTTING AND PATCHING APPLY TO ALL WORK WHICH IS ALTERED, WHETHER SUCH WORK IS NEW, EXISTING, RENOVATED OR REPLACED

1 THESE DRAWINGS WERE PREPARED BASED ON INFORMATION ATTAINED FROM A SITE SURVEY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO DEMOLITION & NOTIFY THIS OFFICE IN CASE OF DISCREPANCIES ASAP.

2 PRIOR TO DEMOLITION, CUTTING AND PATCHING, THE CONTRACTOR SHALL LOCATE AND DISCONNECT UTILITY SERVICES AND ELECTRICAL / MECHANICAL SYSTEMS, OR TEMPORARILY CAP OFF SUCH SERVICES TO THE AFFECTED AREAS. GIVE NOTICE TO, AND COORDINATE WITH UTILITY COMPANIES. OBTAIN WRITTEN APPROVAL FROM, AND COOPERATE WITH OTHER PARTIES WHO MAY BE AFFECTED BY INTERRUPTION OF SERVICES.

2 ALL MEASUREMENTS INDICATED ON THE PLAN SHALL BE VERIFIED ON THE ACTUAL CONDITION. ANY DISCREPANCY IN THE MEASUREMENT SHALL BE REPORTED TO THE ARCHITECT BEFORE THE START OF DEMOLITION.

3 CLEARLY MARK THE AREAS AND LIMITS OF DEMOLITION, CUTTING AND PATCHING. IF FEASIBLE, PRE-CUT THE LINE OF SEPARATION BETWEEN AREAS OF DEMOLITION AND AREAS TO BE PRESERVED. UTILIZE DEMOLITION AND CUTTING TECHNIQUES WHICH ARE LEAST LIKELY TO DAMAGE SURROUNDING OR ADJOINING WORK. WHERE FEASIBLE, USE HAND TOOLS AND SMALL POWER TOOLS THAT ARE DESIGNED FOR SAWING AND GRINDING, NOT HAMMERING OR CHOPPING. DO NOT USE EXPLOSIVES.

3 DO NOT SCALE DRAWINGS. ALL MEASUREMENTS INDICATED ON THE PLAN SHALL BE VERIFIED ON THE ACTUAL CONDITION. ANY DISCREPANCY IN THE MEASUREMENT SHALL BE REPORTED TO THE ARCHITECT BEFORE THE START OF DEMOLITION.

4 STRUCTURAL REQUIREMENTS: DO NOT CUT AND PATCH STRUCTURAL WORK IN A MANNER WHICH WILL REDUCE LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. WHERE STRUCTURAL WORK MUST BE CUT, PROVIDE ADEQUATE TEMPORARY SUPPORT (BRACING AND/OR SHORING) TO RESIST VERTICAL, LATERAL AND DYNAMIC LOADS IN THE ENTIRE TRIBUTARY AREA OF THE AFFECTED STRUCTURAL MEMBERS. WHERE REQUIRED, ENGAGE A LICENSED STRUCTURAL ENGINEER TO DESIGN SHORING / BRACING SYSTEMS AND JOINT OR CONNECTION DETAILS.

4 DEMOLITION IS TO BE EXECUTED SO AS NOT TO DISTURB EXISTING STRUCTURAL & ROOFING SYSTEMS, AND OTHER AREAS THAT ARE INTENDED TO REMAIN INTACT. VERIFY ALL CONSTRUCTION TO BE REMOVED THAT IS NOT INTEGRAL TO STRUCTURAL SYSTEM PRIOR TO DEMOLITION.

5 OPERATIONAL AND SAFETY LIMITATIONS: DO NOT CUT AND PATCH OPERATIONAL ELEMENTS OR SAFETY RELATED COMPONENTS IN A MANNER WHICH WILL REDUCE INTENDED PERFORMANCE OR SAFETY FACTOR, OR WHICH WILL RESULT IN INCREASED MAINTENANCE OR REDUCED OPERATIONAL LIFE.

5 ALL DIMENSIONS SHOWN AS EXISTING SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DEMOLITION. VERIFY ALL DEMOLITION WORK w/ NEW CONSTRUCTION & INSTALLATION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.

6 VISUAL REQUIREMENTS: DO NOT CUT AND PATCH WORK IN A MANNER WHICH WILL RESULT IN LESSENING OF THE AESTHETIC QUALITIES OF THE BUILDING OR SITE, OR THAT WILL RESULT IN VISUAL EVIDENCE OF CUT AND PATCH WORK. WHERE REQUIRED, EXTEND FINISH MATERIALS OVER ENTIRE UNBROKEN SURFACE AREAS AFFECTED BY CUT AND PATCH WORK. REMOVE AND REPLACE CUT AND PATCH WORK WHICH DOES NOT MEET VISUAL REQUIREMENTS.

6 ELECTRICAL DEMOLITION NOTE: REMOVE ALL ELECTRICAL LIGHTS, OUTLETS, WIRING AND CONDUITS. CAP LINES AT MAIN DISTRIBUTION PANEL. FIELD VERIFY ELECTRICAL DEMOLITION WITH CONTRACTOR.

7 PROTECTION: PROTECT OTHER WORK DURING CUTTING AND PATCHING OPERATIONS TO PREVENT DAMAGE. PROVIDE PROTECTION OF ALL WORK FROM ADVERSE WEATHER CONDITIONS. WHERE OPENINGS ARE CREATED IN ROOF OR EXTERIOR WALLS, PROVIDE TEMPORARY ENCLOSURE OF SUCH OPENINGS ON A DAILY BASIS, AND WHENEVER ADVERSE WEATHER THREATENS OR EXISTS.

7 DEMOLITION CONTRACTOR TO COORDINATE & REVIEW ALL CONSTRUCTION DOCUMENTS & DETERMINE THE EXTENT OF DEMOLITION WORK & BECOME FAMILIAR WITH THEM THOROUGHLY BEFORE PERFORMING ANY DEMOLITION WORK. BY THE ACT OF STARTING DEMOLITION, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE THE NECESSARY ALLOWANCES IN PREPARING HIS BID.

8 VERIFY DISPOSITION OF ALL FURNISHINGS, MILLWORK, LIGHTING FIXTURES, ETC. TO BE REMOVED w/ OWNER. ALL ITEMS TO BE DISPOSED SHALL BE DISPOSED OF OFF-SITE AND IN AN EXPEDITIOUS MANNER.

8 SAFEGUARDS DURING CONSTRUCTION: NOTE TO GENERAL CONTRACTOR: ALL MEANS OF EGRESS COMPONENTS, INCLUDED, BUT NOT LIMITED TO, EXIT DOORS, ROUTES, SIGNS AND ALL COMPONENTS REQUIRED UNDER THE RULES GOVERNING IN THE JURISDICTION, ARE TO REMAIN IN PLACE AND ACTIVE DURING ALL PHASES OF CONSTRUCTION. ACCESS TO EXIT ROUTES ARE TO BE FREE OF CONSTRUCITON EQUIPMENT, MATERIALS, FURNITURE, SHELVING AND/OR ANY POSSIBLE BLOCKAGE TO THESE ACCESSABLE ROUTE AND COMPONENTS. GC IS TO RPOVIDE SAFE/SEPARATE BARRIERS AS NEEDED TO PROTECT THE PUBLIC FROM DEBRIS AND GENERAL CONSTRUCTION OCCURANCES.

9 CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

10 PROTECT FROM DAMAGE DURING CONSTRUCTION ALL EXISTING WALLS, FLOORS, CEILINGS, ETC. THAT ARE TO REMAIN. CONTRACTOR TO PATCH & REPAIR ANY DAMAGED PORTIONS OF THE EXISTING BUILDING AS REQUIRED TO MATCH THE EXISTING ADJACENT CONSTRUCTION & FINISHES.

11 THIS PLAN INDICATES A GENERAL SCOPE OF WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR TO COMPLETE THE BUILDING MODIFICATIONS AS SHOWN AND REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL & HVAC WORK.

12 IF CONTRACTOR ENCOUNTERS ANY HAZARDOUS MATERIALS DURING DEMOLITION OR CONSTRUCTION, HE SHALL IMMEDIATELY SUSPEND WORK & NOTIFY THE ARCHITECT BEFORE PROCEEDING.

13 THE SUB-CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE DEMOLITION AND REMOVAL OF ANY WALLS, COUNTERS, FURNITURE, BULKHEADS, DOORS, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON THE DRAWINGS OR AS REQUIRED TO COMPLETE THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.

14 ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER & IN STRICT ACCORDANCE WITH OSHA REGULATIONS.

15 REMOVE ANY SINKS, WATER CLOSETS, URINALS, LAVATORIES, FLOOR DRAINS, NOTED ON DRAWINGS AS WELL AS ALL ASSOCIATED PLUMBING ACCESSORIES. CAP, PLUG ALL ABANDONED SUPPLY & WASTE LINES. PATCH & SEAL ALL FLOOR PENETRATIONS. SEE MECHANICAL & PLUMBING DRAWINGS FOR DETAILED DEMOLITION NOTES.

16 WHEN UTILITIES ARE REMOVED, CAP & SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 12" ABOVE FINISH CEILING .

17 THE CONTRACTOR MAY DETERMINE THAT THE COST OF REMOVAL & REPLACEMENT OF EXISTING WALLS IS LESS EXPENSIVE THAN KEEPING EXISTING WALLS. IT IS THE CONTRACTOR'S PREROGATIVE TO DEMO EXISTING WALLS AT NO ADDITIONAL EXPENSE TO THE OWNER.

18 CONTRACTOR TO FIELD VERIFY SUBSTRATES BELOW FLOOR FINISHES FOR ANY CONDITIONS THAT MAY AFFECT THE COST OF INSTALLATION OF THE SPECIFIED MATERIAL

19 CLEAN & LEVEL FLOOR AS REQUIRED IN DEMO OR SPECIFIED AREAS CONTRACTOR TO DISPOSE OF ANY ITEMS THE OWNER DETERMINES ARE NOT ACCEPTABLE FOR RE-USE.

KEYNOTE LEGEND

#	DESCRIPTION
H15	REMOVE PORTIONS OF CONCRETE FLOOR/ SIDEWALK
H16	EXISTING GATE TO REMAIN.
H20	REMOVE AND DISCARD EXISTING PAVERS
H21	REMOVE AND DISCARD EXISTING CHAIN-LINK FENCE.
H22	REMOVE AND RELOCATE EXISTING SIGN, VERIFY NEW LOCATION WITH OWNER.
H23	REMOVE AND RELOCATE EXISTING PLANTERS AND TRASH CAN, VERIFY NEW LOCATION WITH OWNER.
H24	REMOVE PORTIONS OF CONCRETE SLAB FOR INSTALLATION OF NEW FOOTING/ PILASTERS.
H25	REMOVE EXISTING STUMP.
H26	REMOVE AND RELOCATE EXISTING BIKE RACK, VERIFY NEW LOCATION WITH OWNER.
H28	EXISTING SIDEWALK TO REMAIN.
H29	EXISSTING PARKING LOT TO REMIAN.

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No.	DATE	Revision

Designed:	Designer
Drawn:	Author
Checked:	Checker
Job No.:	M7030.1
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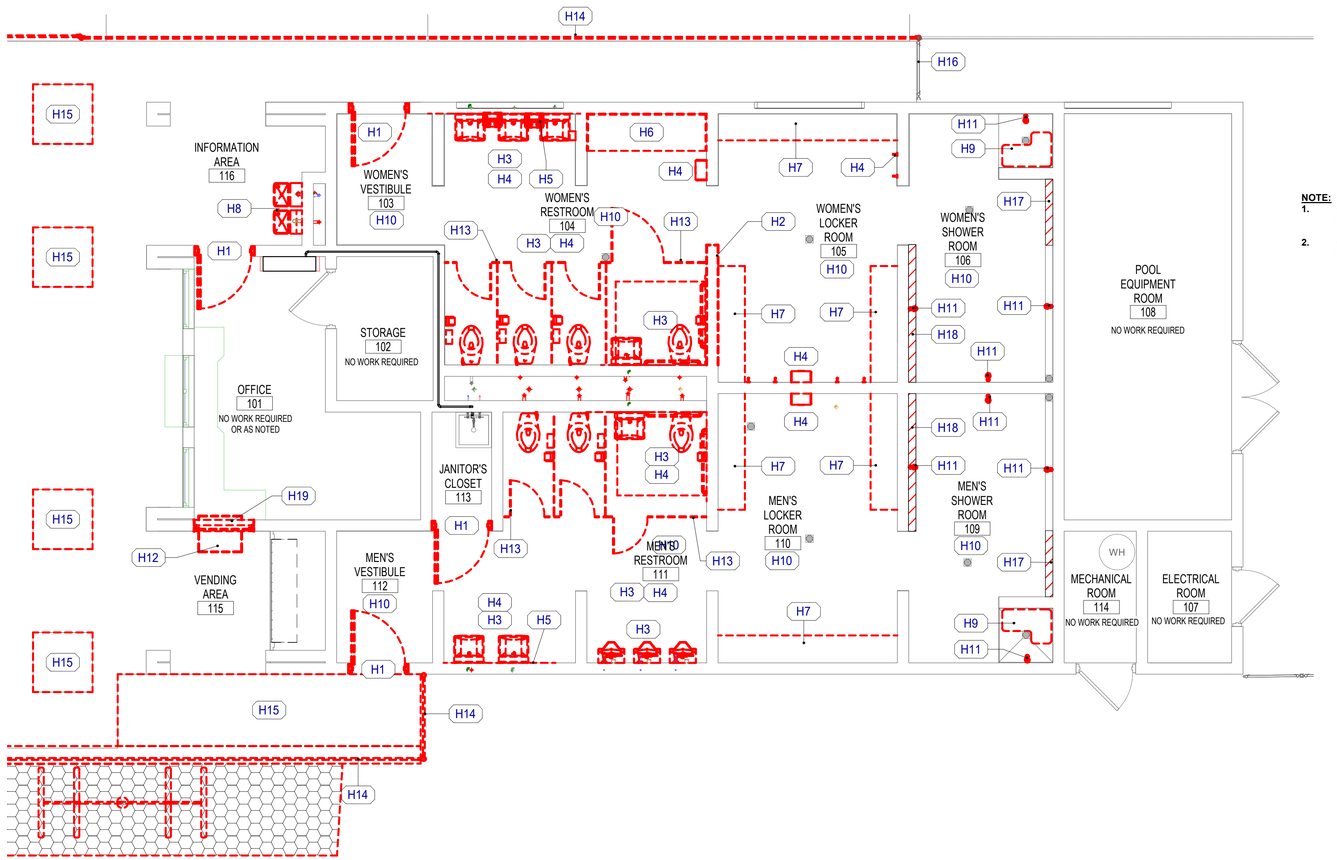
DEMOLITION SITE PLAN

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
A040



NOTE:

1. **ALL RESTROOM FIXTURES AND ACCESSORIES TO BE REMOVED AND DISCARDED, U.N.O.**
2. **ALL WALL AND FLOOR TILE TO BE REMOVED, PATCH AND REPAIR ALL SURFACES AND PREP FOR NEW WORK, U.N.O.**

N

1 DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1 THE FOLLOWING REQUIREMENTS FOR DEMOLITION, CUTTING AND PATCHING APPLY TO ALL WORK WHICH IS ALTERED, WHETHER SUCH WORK IS NEW, EXISTING, RENOVATED OR REPLACED.

1 THESE DRAWINGS WERE PREPARED BASED ON INFORMATION ATTAINED FROM A SITE SURVEY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO DEMOLITION & NOTIFY THIS OFFICE IN CASE OF DISCREPANCIES ASAP.

2 PRIOR TO DEMOLITION, CUTTING AND PATCHING, THE CONTRACTOR SHALL LOCATE AND DISCONNECT UTILITY SERVICES AND ELECTRICAL / MECHANICAL SYSTEMS, OR TEMPORARILY CAP OFF SUCH SERVICES TO THE AFFECTED AREAS. GIVE NOTICE TO, AND COORDINATE WITH UTILITY COMPANIES. OBTAIN WRITTEN APPROVAL FROM, AND COOPERATE WITH OTHER PARTIES WHO MAY BE AFFECTED BY INTERRUPTION OF SERVICES.

2 ALL MEASUREMENTS INDICATED ON THE PLAN SHALL BE VERIFIED ON THE ACTUAL CONDITION. ANY DISCREPANCY IN THE MEASUREMENT SHALL BE REPORTED TO THE ARCHITECT BEFORE THE START OF DEMOLITION.

3 CLEARLY MARK THE AREAS AND LIMITS OF DEMOLITION, CUTTING AND PATCHING. IF FEASIBLE, PRE-CUT THE LINE OF SEPARATION BETWEEN AREAS OF DEMOLITION AND AREAS TO BE PRESERVED. UTILIZE DEMOLITION AND CUTTING TECHNIQUES WHICH ARE LEAST LIKELY TO DAMAGE SURROUNDING OR ADJOINING WORK. WHERE FEASIBLE, USE HAND TOOLS AND SMALL POWER TOOLS THAT ARE DESIGNED FOR SAWING AND GRINDING, NOT HAMMERING OR CHOPPING. DO NOT USE EXPLOSIVES.

3 DO NOT SCALE DRAWINGS. ALL MEASUREMENTS INDICATED ON THE PLAN SHALL BE VERIFIED ON THE ACTUAL CONDITION. ANY DISCREPANCY IN THE MEASUREMENT SHALL BE REPORTED TO THE ARCHITECT BEFORE THE START OF DEMOLITION.

4 STRUCTURAL REQUIREMENTS: DO NOT CUT AND PATCH STRUCTURAL WORK IN A MANNER WHICH WILL REDUCE LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. WHERE STRUCTURAL WORK MUST BE CUT, PROVIDE ADEQUATE TEMPORARY SUPPORT (BRACING AND/OR SHORING) TO RESIST VERTICAL, LATERAL AND DYNAMIC LOADS IN THE ENTIRE TRIBUTARY AREA OF THE AFFECTED STRUCTURAL MEMBERS. WHERE REQUIRED, ENGAGE A LICENSED STRUCTURAL ENGINEER TO DESIGN SHORING / BRACING SYSTEMS AND JOINT OR CONNECTION DETAILS.

4 DEMOLITION IS TO BE EXECUTED SO AS NOT TO DISTURB EXISTING STRUCTURAL & ROOFING SYSTEMS, AND OTHER AREAS THAT ARE INTENDED TO REMAIN INTACT. VERIFY ALL CONSTRUCTION TO BE REMOVED THAT IS NOT INTEGRAL TO STRUCTURAL SYSTEM PRIOR TO DEMOLITION.

5 OPERATIONAL AND SAFETY LIMITATIONS: DO NOT CUT AND PATCH OPERATIONAL ELEMENTS OR SAFETY RELATED COMPONENTS IN A MANNER WHICH WILL REDUCE INTENDED PERFORMANCE OR SAFETY FACTOR, OR WHICH WILL RESULT IN INCREASED MAINTENANCE OR REDUCED OPERATIONAL LIFE.

5 ALL DIMENSIONS SHOWN AS EXISTING SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DEMOLITION. VERIFY ALL DEMOLITION WORK w/ NEW CONSTRUCTION & INSTALLATION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.

6 VISUAL REQUIREMENTS: DO NOT CUT AND PATCH WORK IN A MANNER WHICH WILL RESULT IN LESSENING OF THE AESTHETIC QUALITIES OF THE BUILDING OR SITE, OR THAT WILL RESULT IN VISUAL EVIDENCE OF CUT AND PATCH WORK. WHERE REQUIRED, EXTEND FINISH MATERIALS OVER ENTIRE UNBROKEN SURFACE AREAS AFFECTED BY CUT AND PATCH WORK. REMOVE AND REPLACE CUT AND PATCH WORK WHICH DOES NOT MEET VISUAL REQUIREMENTS.

6 ELECTRICAL DEMOLITION NOTE: REMOVE ALL ELECTRICAL LIGHTS, OUTLETS, WIRING AND CONDUITS. CAP LINES AT MAIN DISTRIBUTION PANEL. FIELD VERIFY ELECTRICAL DEMOLITION WITH CONTRACTOR.

7 PROTECTION: PROTECT OTHER WORK DURING CUTTING AND PATCHING OPERATIONS TO PREVENT DAMAGE. PROVIDE PROTECTION OF ALL WORK FROM ADVERSE WEATHER CONDITIONS. WHERE OPENINGS ARE CREATED IN ROOF OR EXTERIOR WALLS, PROVIDE TEMPORARY ENCLOSURE OF SUCH OPENINGS ON A DAILY BASIS, AND WHENEVER ADVERSE WEATHER THREATENS OR EXISTS.

7 DEMOLITION CONTRACTOR TO COORDINATE & REVIEW ALL CONSTRUCTION DOCUMENTS & DETERMINE THE EXTENT OF DEMOLITION WORK & BECOME FAMILIAR WITH THEM THOROUGHLY BEFORE PERFORMING ANY DEMOLITION WORK. BY THE ACT OF STARTING DEMOLITION, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE THE NECESSARY ALLOWANCES IN PREPARING HIS BID.

8 VERIFY DISPOSITION OF ALL FURNISHINGS, MILLWORK, LIGHTING FIXTURES, ETC. TO BE REMOVED w/ OWNER. ALL ITEMS TO BE DISPOSED SHALL BE DISPOSED OF OFF-SITE AND IN AN EXPEDITIOUS MANNER.

8 SAFEGUARDS DURING CONSTRUCTION: NOTE TO GENERAL CONTRACTOR: ALL MEANS OF EGRESS COMPONENTS, INCLUDED, BUT NOT LIMITED TO, EXIT DOORS, ROUTES, SIGNS AND ALL COMPONENTS REQUIRED UNDER THE RULES GOVERNING IN THE JURISDICTION, ARE TO REMAIN IN PLACE AND ACTIVE DURING ALL PHASES OF CONSTRUCTION. ACCESS TO EXIT ROUTES ARE TO BE FREE OF CONSTRUCITON EQUIPMENT, MATERIALS, FURNITURE, SHELVING AND/OR ANY POSSIBLE BLOCKAGE TO THESE ACCESSABLE ROUTE AND COMPONENTS. GC IS TO RPOVIDE SAFE/SEPARATE BARRIERS AS NEEDED TO PROTECT THE PUBLIC FROM DEBRIS AND GENERAL CONSTRUCTION OCCURANCES.

9 CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

10 PROTECT FROM DAMAGE DURING CONSTRUCTION ALL EXISTING WALLS, FLOORS, CEILINGS, ETC. THAT ARE TO REMAIN. CONTRACTOR TO PATCH & REPAIR ANY DAMAGED PORTIONS OF THE EXISTING BUILDING AS REQUIRED TO MATCH THE EXISTING ADJACENT CONSTRUCTION & FINISHES.

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16 WHEN UTILITIES ARE REMOVED, CAP & SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 12" ABOVE FINISH CEILING.

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18 CONTRACTOR TO FIELD VERIFY SUBSTRATES BELOW FLOOR FINISHES FOR ANY CONDITIONS THAT MAY AFFECT THE COST OF INSTALLATION OF THE SPECIFIED MATERIAL

19 CLEAN & LEVEL FLOOR AS REQUIRED IN DEMO OR SPECIFIED AREAS CONTRACTOR TO DISPOSE OF ANY ITEMS THE OWNER DETERMINES ARE NOT ACCEPTABLE FOR RE-USE.

KEYNOTE LEGEND

#	DESCRIPTION
H1	REMOVE AND DISCARD EXISTING DOOR AND FRAME, PATCH AND REPAIR ALL SURFACES AND PREP FOR NEW WORK
H2	REMOVE EXISTING MASONRY WALL, PATCH AND REPAIR SURROUNDING AREA IN PREPERATION FOR NEW WORK
H3	REMOVE AND DISCARD EXISTING PLUMBING FIXTURES, REFER TO PLUMBING
H4	REMOVE AND DISCARD EXISTING RESTROOM ACCESSORIES (TYPICAL)
H5	REMOVE AND DISCARD EXISTING MIRROR
H6	REMOVE AND DISCARD EXISTING COUNTER TOPS AND BRACKETS
H7	REMOVE AND DISCARD EXISTING BENCH
H8	REMOVE AND DISCARD EXISTING WATER FOUNTAIN, PREP FOR NEW
H9	REMOVE AND DISCARD ADA SEAT, SHOWER HEAD/ CONTROL & GRAB BAR.
H10	REMOVE AND DISCARD EXISTING FLOOR AND WALL TILE FINISHES, PATCH AND REPAIR ALL SURFACES AND PREP FOR NEW WORK
H11	REMOVE AND DISCARD EXISTING SHOWER HEADS, REFER TO PLUMBING
H12	REMOVE AND DISCARD EXISTING AIR CONDITIONER WINDOW UNIT.
H13	REMOVE AND DISCARD EXISTING TOILET PARTITIONS
H14	REMOVE AND DISCARD EXISTING FENCING, REFER TO ARCHITECTURAL SITE PLAN
H15	REMOVE PORTIONS OF CONCRETE FLOOR/ SIDEWALK
H16	EXISTING GATE TO REMAIN.
H17	REMOVE PORTION OF FLOOR FOR NEW TRENCH DRAIN. REFER TO PLUMBING.
H18	REMOVE PORTIONS OF DRAIN FOR FOR INFILL OF DRAIN FLUSH WITH FLOOR, REFER TO PLUMBING.
H19	REMOVE AND DISCARD EXISTING WINDOW, PREPARE OPENING FOR NEW.

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Checked:	JAB
Job No.:	M7030.1
10/22/2021	© 2021

DEMOLITION FLOOR PLAN

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

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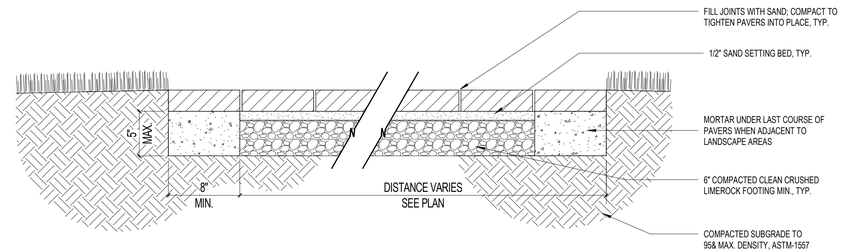
Sheet No.
A050

SITE GENERAL NOTES

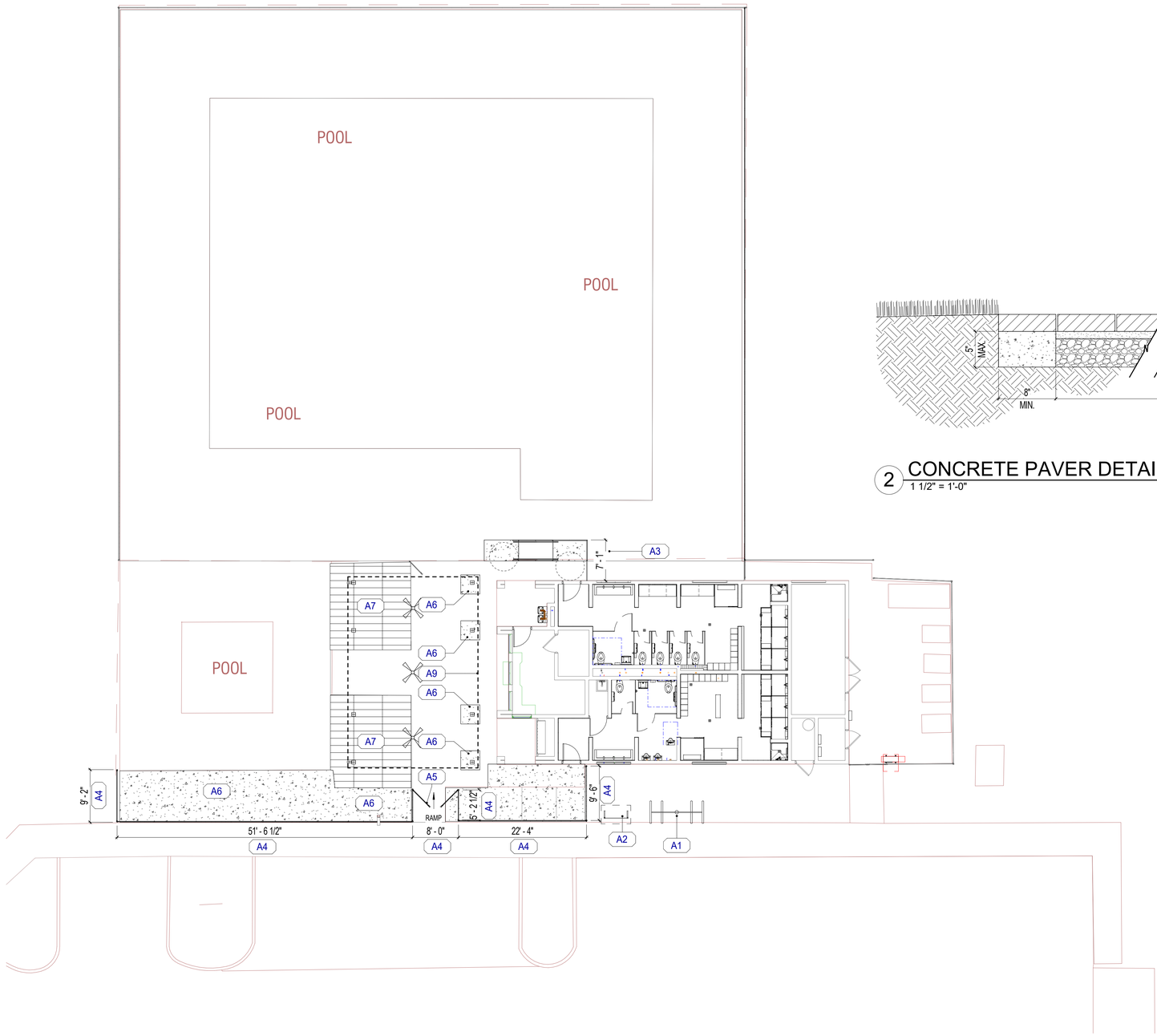
1. THE SITE PLAN INFORMATION CONTAINED ON THIS SHEET IS PROVIDED FOR REFERENCE ONLY.
2. ALL PARKING IS EXISTING
3. THIS IS NOT A SURVEY. REFER TO THE PLATTED SURVEY FOR ACCURACY.
4. NO SIGNAGE IS INCLUDED IN THIS PACKAGE. SIGNAGE SHOWN FOR REFERENCE ONLY. ALL SIGNAGE MUST BE PERMITTED SEPARATELY.
5. CONTRACTOR TO FILL THE POOL WITH CLEAN, WASHED BUILDERS SAND COMPACTED TO 95% PROCTOR ASTM-1557; PROVIDE MATERIAL SAMPLES TO THE CITY PRIOR TO INSTALLATION
6. CONTRACTOR TO PROVIDE A 4' WIDE, 6' HEIGHT CHAIN LINK FENCE; MATCH MATERIAL WITH EXISTING FENCE ON SITE; COORDINATE WITH CITY FOR LOCKING MECHANISM AND INSTALL PER CODE; PROVIDE MATERIAL SAMPLES TO THE CITY PRIOR TO INSTALLATION
7. CONTRACTOR TO PROVIDE COLOR SAMPLES TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION

KEYNOTE LEGEND

#	DESCRIPTION
A1	RELOCATED BIKE RACK, VERIFY LOCATION WITH OWNER.
A2	RELOCATED SIGN, VERIFY LOCATION WITH OWNER.
A3	NEW ADA RAMP AND LANDING WITH GAURDRAIL.
A4	NEW CHAINLINK FENCE WITH PRIVACY SLATS , SIZE AND HEIGHT TO MATCH EXISITNG.
A5	NEW (2) 4'-0" GATES.
A6	NEW CAST IN PLACE CONCRETE SLAB.
A7	NEW CONCRETE PAVERS.
A9	CANOPY ABOVE.



2 CONCRETE PAVER DETAIL
1 1/2" = 1'-0"



1 ARCHITECTURAL SITE PLAN
1" = 10'-0"

10ft. 0 10ft. 20ft.

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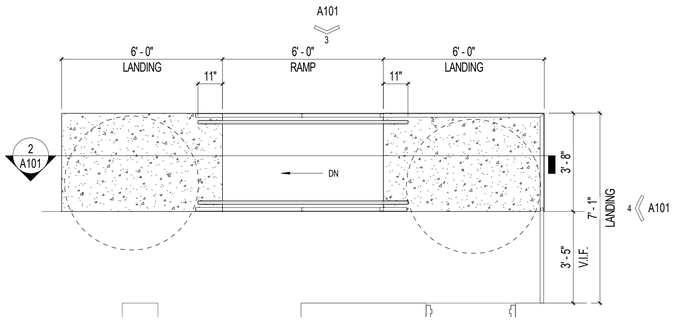
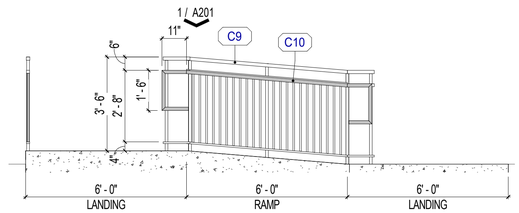
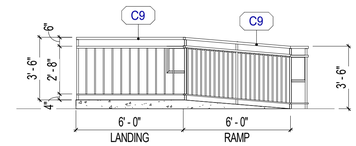
A100



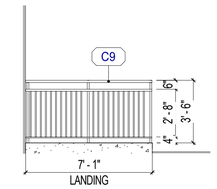
1 ENLARGED RAMP PLAN
3/8" = 1'-0"



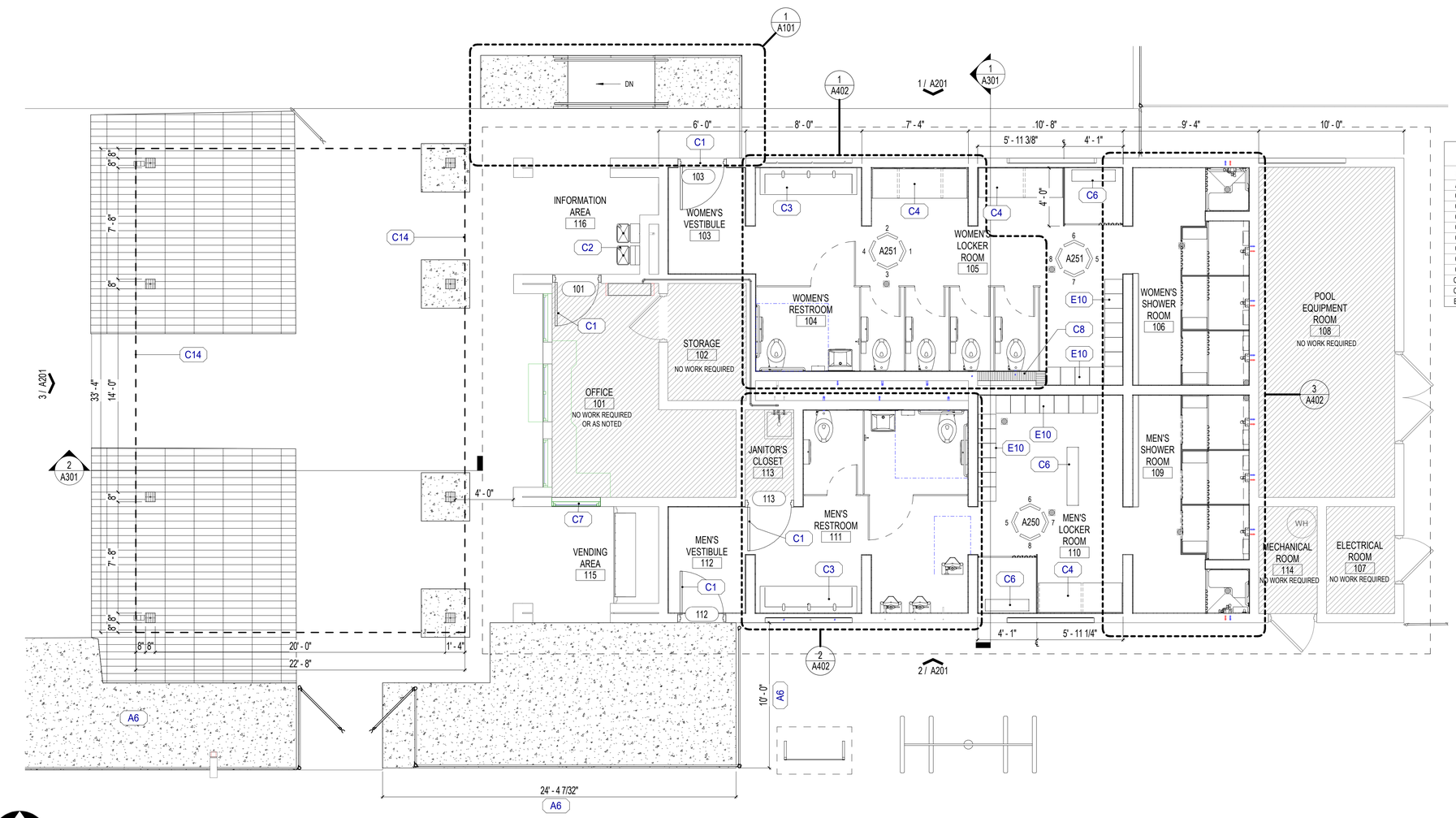
2 RAMP SECTION
3/8" = 1'-0"



3 RAMP ELEVATION
1/4" = 1'-0"



4 RAMP ELEVATION
1/4" = 1'-0"



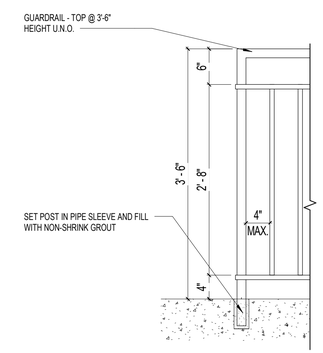
A1 FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO G101 FOR LIFE SAFETY INFORMATION, INCLUDING WALL RATINGS.
2. REFER TO DIMENSION PLANS FOR WALL TYPES.
3. FURNITURE SHOWN FOR REFERENCE ONLY.
4. * EDIT / ADD NOTES AS REQUIRED FOR PROJECT *

KEYNOTE LEGEND

#	DESCRIPTION
A6	NEW CAST IN PLACE CONCRETE SLAB.
C1	ALUMINUM DOOR AND FRAME AS SCHEDULED
C2	DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE PLUMBING
C3	(3) BAY SOLID SURFACE SINK BASIN; WALL MOUNTED, REFER TO PLUMBING
C4	SOLID SURFACE COUNTER TOP WITH WALL MOUNT BRACKETS, AS REQUIRED
C6	TEAK BENCH
C7	NEW WINDOW AT REMOVED AIR CONDITTIONER.
C8	NEW CMU WALL TO MATCH EXISTING
C9	ALUMINUM GAURDRAIL.
C10	ALUMINUM HANDRAIL.
C14	CANOPY ROOF ABOVE, REFER TO ROOF PLAN
E10	LOCKERS



5 GAURDRAIL DETAIL
1" = 1'-0"

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Sheet No.
A101

REFLECTED CEILING PLAN GENERAL NOTES

1 THIS REFLECTED CEILING PLAN IS PROVIDED TO DOCUMENT CEILING DESIGN INTENT. SEE ALSO MECHANICAL AND ELECTRICAL DOCUMENTATION FOR COMPLETE INFORMATION INCLUDING SWITCH LOCATION, CIRCUITING AND WIRING LAYOUT. ALL MEP-FP DEVICE LOCATIONS NOT SHOWN ON DRAWINGS, OR IN CONFLICT WITH MEP/FP DRAWINGS, ARE TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION. IN THE EVENT OF DISCREPANCIES BETWEEN THE ARCHITECT'S REFLECTED CEILING PLAN AND THE ENGINEERS' PLANS, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING BEFORE ORDERING MATERIALS OR PROCEEDING WITH THE WORK.

2 - RESERVED-

3 FOLLOWING COMPLETION OF THE ACOUSTICAL CEILING INSTALLATION, ALL JOINTS AND GRID SHALL BE STRAIGHT, TRUE TO LINE, WITH EXPOSED SURFACES FLUSH AND LEVEL. DIRTY OR DISCOLORED SURFACES OF TILE ARE TO BE CLEANED OR REPLACED, AND LEFT FREE OF DEFECTS. AFTER 30 DAYS FROM SUBSTANTIAL COMPLETION, INSPECT THE WORK AND ADJUST TILE NOT IN ALIGNMENT WITH OTHER CEILING TILES AND REPLACE MSSING OR DAMAGED UNITS.

4 IN ALL ROOMS OR AREAS, THE CONTRACTOR SHALL ESTABLISH A SINGLE FLOOR ELEVATION THAT IS TO BE USED AS THE ORIGIN FOR ALL CEILING HEIGHTS ABOVE FINISHED FLOOR.

5 VERIFY FIELD CONDITIONS AND LOCATIONS OF ALL MEP/FP AND STRUCTURAL ELEMENTS. CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES NECESSARY TO MAINTAIN THE FINISHED CEILING HEIGHTS INDICATED. INSTALL DUCTWORK TIGHT TO UNDERSIDE OF BEAMS. WITH A SMALL SPACE TO AVOID VIBRATION. INSTALLATION AND/OR ALTERATION OF DUCTWORK, PIPING OR OTHER EQUIPMENT THAT WILL REQUIRE FASCIAS, SOFFITS AND OTHER TRANSITIONS IN CEILING HEIGHT SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING. CONTRACTOR TO PROVIDE COMPLETE COORDINATION DRAWINGS FOR THE ARCHITECT AND ENGINEER'S REVIEW.

6 NOT USED

7 ALL CEILING MOUNTED DEVICES SHALL BE WHITE U.N.O.

8 PROVIDE BLOCKING ABOVE CEILING REQUIRED FOR ALL CEILING MOUNTED EQUIPMENT. PROVIDE ADDITIONAL SUPPORT FOR LIGHT FIXTURES AS RECOMMENDED BY FIXTURE MANUFACTURER.

9 LOCATE ANY CONTROLS THAT NEED ACCESSING OVER ACOUSTICAL CEILING TILE AREAS. DO NOT PLACE ANY ABOVE GYPSUM BOARD CEILINGS, UNLESS APPROVED BY ARCHITECT.

10 PROVIDE CEILING ACCESS REQUIRED FOR EQUIPMENT AND SYSTEM MAINTENANCE. MATCH ADJACENT CEILING FINISH U.N.O. SYSTEMS AND EQUIPMENT REQUIRING ACCESS SHALL BE LOCATED AT ACCESSIBLE CEILINGS -ACCESS PANELS NOT SHOWN ON DRAWINGS SHALL NOT BE INSTALLED IN GYPSUM BOARD CEILINGS WITHOUT PRIOR APPROVAL.

11 ALL ACCESS PANELS IN GYPSUM BOARD CEILINGS SHALL BE FRAMELESS; LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. GROUP DEVICES TO MINIMIZE THE NUMBER AND SIZE OF ACCESS PANELS.

12 ALL CONDUITS, BOXES, DUCTS, HVAC UNITS, PIPES, ETC., SHALL BE INSTALLED AS HIGH AS POSSIBLE, NOT LOWER THAN 8" ABOVE LINE OF HIGHEST FINISHED CEILING.

13 THERE SHALL BE NO COMBUSTIBLE MATERIALS IN THE PLENUM SPACE.

14 WHEN MULTIPLE SWITCHES OCCUR IN CLOSE PROXIMITY GANG UNDER SINGLE SWITCH PLATE.

15 INSTALL NEW THERMOSTATS CLOSE TO DOOR OPENINGS. DO NOT INSTALL IN CENTER OF WALL. ARCHITECT AND CLIENT TO APPROVE ALL LOCATIONS.

16 ALL LIGHTS TO BE CONTROLLED BY MOTION SENSOR. PROVIDE OVERRIDE SWITCH AT ALL CONFERENCE ROOMS

17 ALL LAMPS SHALL BE IDENTICAL FROM ONE MANUFACTURER IN SAME TEMPERATURE, UON.

18 NOT USED

19 NOT USED

20 LOCATE ALL LIGHT FIXTURES, SPEAKERS, LIFE-SAFETY DEVICES AND SIMILAR CEILING ELEMENTS, ETC., IN THE CENTER OF CEILING TILE IN BOTH DIRECTIONS AND ALIGN WITH ADJACENT FIXTURES, DEVICES OR HEADS IN A RUN OR ROW, U.N.O.

21 REFER TO ELEVATIONS AND SECTIONS FOR MOUNTING HEIGHTS OF WALL SURFACE MOUNTED LIGHT FIXTURES.

22 NOT USED

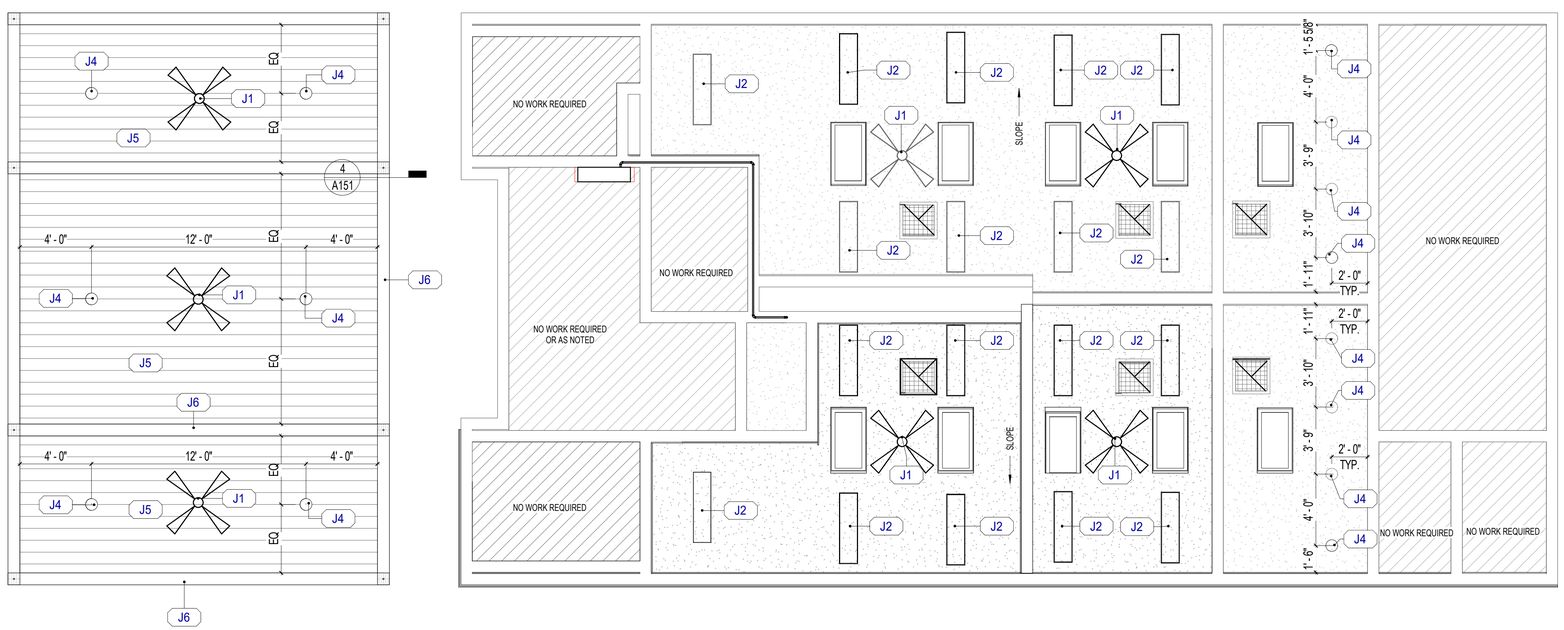
23 PROVIDE CEILING ACCESS AS REQ. FOR SYSTEMS MAINTENANCE. MATCH ADJ. CEILING FINISH, UNO. SYSTEMS AND EQPT TO BE LOCATED ABOVE ACCESSIBLE CEILINGS. ACCESS PANELS NOT SHOWN SHALL NOT BE INSTALLED IN GPY BD CEILING WITHOUT PRIOR APPROVAL

24 ACCESS PANELS IN GYP. BD CEILINGS TO BE FRAMELESS; COORD. W/ ARCHITECT. GROUP DEVICES

25 MAXIMIZE ALL CONDUIT, BOXES, DUCTS, HVAC UNITS, PIPES, ETC. HEIGHTS, MININUM 5" ABOVE HIGHEST FINISHED CEILING DATUM

KEYNOTE LEGEND

#	DESCRIPTION
J1	NEW CEILING FAN, REFER TO ELECTRICAL
J2	NEW LED LIGHTING FIXTURE, REFER TO ELECTRICAL
J4	NEW CAN LIGHTING FIXTURE, REFER TO ELECTRICAL
J5	ALUMINUM PANEL CEILING
J6	CONCREATE BEAM, REFER TO STRUCTURAL.



CEILING LEGEND AND NOTES

C1 8' - 0"	EXISTING 5/8" GYPSUM BD (TO BE PAINITED)
H1 8' - 0"	ALUMINUM CANOPY SYSTEM
F1 8' - 0"	NO WORK REQUIRED

N

1 REFLECTED CEILING PLAN -1ST FLR
1/4" = 1'-0"

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CELEBRATING 40 +YEARS cph

No.	DATE	Revision

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Drawn:	KAR
Checked:	JAB
Job No.:	M7030.1
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REFLECTED CEILING PLAN
MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

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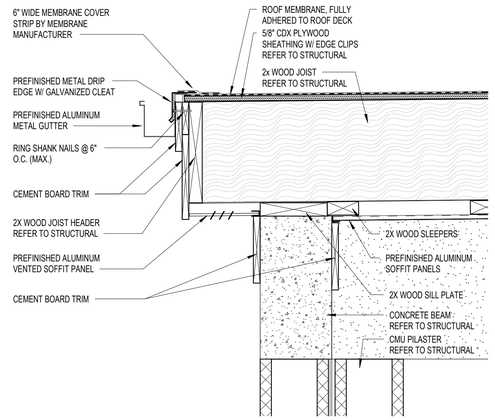
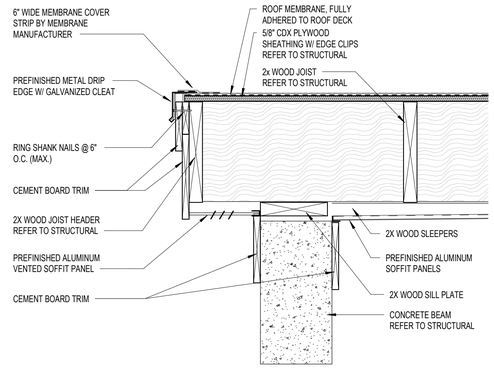
Sheet No.
A140



2 ROOF EDGE/ GUTTER DETAIL
1 1/2" = 1'-0"



3 ROOF EDGE DETAIL
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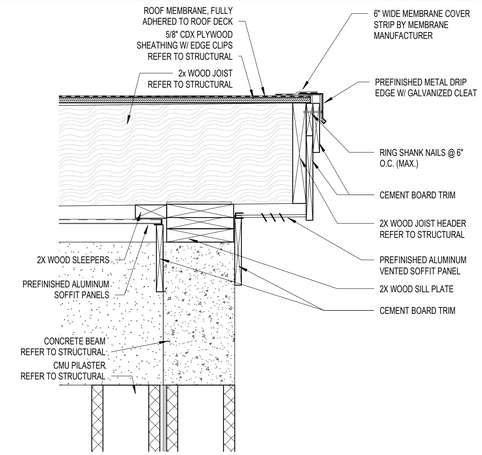


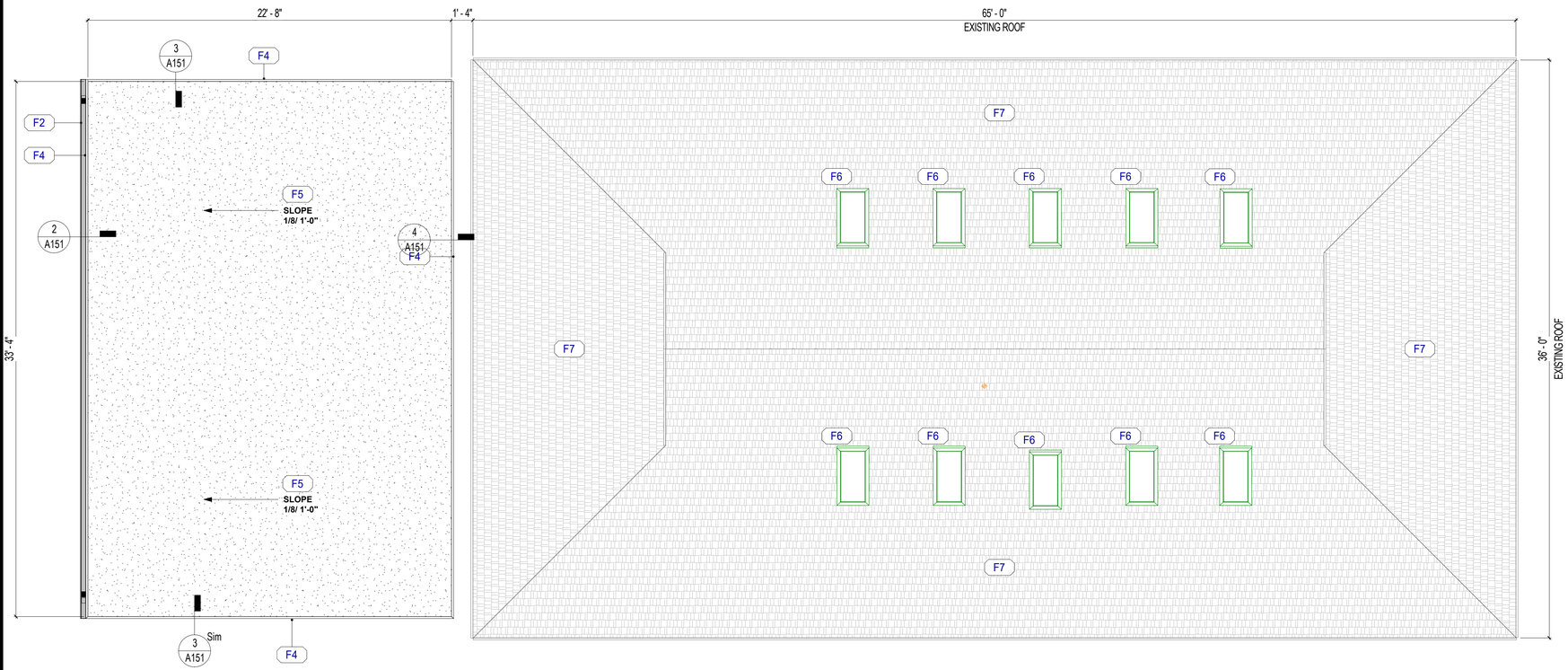
4 Detail 0
1 1/2" = 1'-0"

ROOF LEGEND:

SYMBOL	DESCRIPTION
	SINGLE PLY MEMBRANE ROOFING SYSTEM ON SLOPED WOOD DECK
	EXISTING SHINGLES ON SLOPED WOOD DECK
G/DS	GUTTER WITH SQUARE DOWNSPOUT - SEE TYPICAL DETAILS SHEET ???
	NEW SKYLIGHT ALIGNED WITH EXISTING SHAFTS

GENERAL NOTES:

1. PROVIDE MANUF. STANDARD DETAILS FOR ROOF PENETRATIONS
2. SEE. MECH & PLUMBING EQUIP. PLANS FOR EXTENT OF ROOFTOP EQUIPMENT, CURBS, VENTS, PIPES, AND CONDUITS PENETRATING THE ROOF.
3. PROVIDE CRICKETS TO PROVIDED POSITIVE DRAINAGE AROUND ALL ROOF TOP EQUIPMENT AND HATCHES. CRICKETS SHALL SLOPE AT 1/2" PER FT. MINIMUM.
4. PROVIDE CONCRETE SPLASH BLOCKS WHERE DOWNSPOUTS DISCHARGE BELOW.
5. COORDINATE WALL MTD. ITEMS WITH EXTERIOR ELEVATIONS.
6. COORDINATE ALL ROOF DRAINAGE WITH SITE PLAN.
7. ALL WALKPADS SHALL BOUND THE PERIMETER OF ROOF MTD. EQUIPMENT AND ROOF HATCHES A MINIMUM OF 4'-0" ON EACH SIDE. INSTALL WALKPADS SUCH THAT CROSS DRAINAGE IS NOT IMPEDED.
8. REFER TO DRAWINGS FOR ROOF DETAILS. REFER TO WALL SECTIONS & DETAILS FOR ADDITIONAL ROOF DETAILING.
9. DOWNSPOUT LOCATIONS TO BE COORDINATED WITH EXTERIOR ELEVATIONS.



ROOF PLAN GENERAL NOTES

1 NO CONDUIT ON ROOF
2 ALL COMPONENTS FOR THE ROOF DRAINAGE SYSTEM SHALL BE SIZED BASED ON A STORM OF 60 MINUTES DURATION AND 100 YEAR RETURN PERIOD PER LOCAL BUILDING CODE
3 ALL ROOF MATERIALS SHALL COMPLY W/ THE STANDARDS AS SPECIFIED BY LOCAL CODE AND SHALL HAVE A FIRE CLASSIFICATION AS REQUIRED
4 ALL ROOF DRAINS SHALL COMPLY WITH LOCAL BUILDING CODE. ALL STORM DRAINS SHALL PROVIDE CLEAN OUTS IN CONFORMANCE AS REQUIRED BY CODE

KEYNOTE LEGEND

#	DESCRIPTION
F2	ALUMINUM GUTTER & DOWNSPOUTS, G.C. TO PROVIDE CONCRETE SPLASHBLOCK.
F4	ALUMINUM EAVE TRIM, BY ROOFING MANUFACTURER
F5	TPO ROOFING MEMBRANE ON WOOD DECK, REFER TO STRUCTURAL.
F6	NEW SKYLIGHTS IN EXISTING SHAFTS.
F7	EXISTING ROOFING TO REMAIN, MODIFY ONLY AS REQUIRED.

N

1 ROOF PLAN
1/4" = 1'-0"

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ROOF PLAN

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Sheet No.
A151

MATERIAL FINISH SCHEDULE

MARK	BASIS OF DESIGN	DESCRIPTION	FINISH	COMMENTS
CERAMIC TILE				
CT-1	EMSER	WALL TILE 4"X12" OR 4"X10" LOGIC, WHITE, OR 4"X12" OR 4"X10" FLEX, WHITE, (INTERCHANGEABLE PRODUCTS, DEPENDING ON STOCK / AVAILABILITY)	MATTE	GROUT, 1/8" = MAPEI #47 CHARCOAL, 1/2 OFFSET PATTERN, BREAKROOM AND RESTROOM WALLS (TILES OFFSET IN HALF BOND BRICK PATTERN, WALL TO WALL))
CT-2	EMSER	WALL TILE 6"x47" PORCH, CARMEL #F33PORCCA0647		GROUT, 1/8" = MAPEI #47 CHARCOAL, 1/3 OFFSET PATTERN, RESTROOM WALLS (PLANKS, OFFSET 1/3, BOND WALL TO WALL)
CT-3	EMSER	FLOOR TILE, 12" X 24" CITIZEN, PUBLIC #F26CITIPU1224M		GROUT, 1/8" = MAPEI #47 CHARCOAL, 1/2 OFFSET PATTERN, RESTROOM AND MULTI-FAITH FLOORS PERIMETER ZONE
CT-4	EMSER	BASE, 6" X 12" COVE BASE CITIZEN, PUBLIC BNRCITIPU0612CBM	MATTE	GROUT, 1/8" = MAPEI #47 CHARCOAL, RESTROOM BASE, TOILET ROOM VESTIBULE BEHIND DRINKING FOUNTAIN.
CT-5	EMSER	FLOOR TILE, 12" X 24" CITIZEN, SUBJECT #F26CITISU2448M		GROUT, 1/8" = MAPEI #47 CHARCOAL, 1/2 OFFSET PATTERN, MULTI-FAITH FLOOR ACCENT CENTER AREA
EPOXY FLOOR COATING				
EPX-1	EVERLAST EPOXY	100% SOLIDS EPOXY, MARBLE-CHIP AND QUARTZ AGGREGATE THAT IS A TROWELED IN PLACE, EVENLY TEXTURED, SLIP-RESISTANT FINISH WITH A THICKNESS OF BETWEEN 1/8" AND 3/16"		SHOWER ROOM, LOCKER ROOM, RESTROOM & VESTIBULE
EPX-1 ALT	BENJAMIN MOORE	SUPER SPEC. HP' ADDITIVE, 100% SOLIDS EPOXY SEALER/FINISH P40 W/ ANTI-SLIP AGGREGATE (P67), "LIGHT GRAY" VOC REQUIREMENTS: LESS THAN 100 G/L		SHOWER ROOM, LOCKER ROOM, RESTROOM & VESTIBULE
EXTERIOR PAINT				
EPT-1	SHERWIN WILLIAMS	#SW7063 NEBULOUS WHITE	EGGSHELL	
EPT-2	SHERWIN WILLIAMS	COLOR TBD	EGGSHELL	
INTERIOR PAINT				
PT-1	BENJIMAN MOORE	TBD	EGGSHELL	GENERAL WALL COLOR ABOVE 8 FT. FOR: SHOWER ROOM, LOCKER ROOM, RESTROOM & VESTIBULE
PT-2	BENJIMAN MOORE	TBD	EGGSHELL	CEILING PAINT
SEALED CONCRETE				
SC-1	DAYTON	SUPERIOR SEALER OR EQUIVALENT. CLASS B, SALT AND PEPPER FINISH WITH SMALL EXPOSED AGGREGATE (>FF-45). FINISH TO BE LEVEL 2, WITH A SPECTRAL GLOSS OF 30 TO 49.	HIGH GLOSS (SATIN)	ASSOCIATE ENTRY, LOCKER ROOMS, CIRCULATION - BTS/NEW CONSTRUCTION ONLY
STAINLESS STEEL WALL PANEL				
SSP-1		STAINLESS STEEL WALL PANEL, 18 GAUGE, TYPE 304 WITH A #4 BRUSHED FINISH, INCLUDING INSIDE CORNER TRIM PIECES		WAINSCOT IN TOILET ROOM VESTIBULE BEHIND DRINKING FOUNTAIN
VINYL BASE				
VB-1	JOHNSONITE	4" COVE BASE #32 'PEBBLE WG'		ASSOCIATE ENTRY, LOCKER RM. TRANING, OPEN WORK RM. CONF RM, STATION MGR,HR, HOTEL, CONTEMPLATION RM, MOTHERS RM, MDF, JANITORS CLOSET, BREAK RM, GAME AREA, ELRCTRICAL & FIRE PUMP RM.
B-1	JOHNSONITE	4" COVE BASE #32 'PEBBLE WG'		ASSOCIATE ENTRY, LOCKER RM. TRANING, OPEN WORK RM. CONF RM, STATION MGR,HR, HOTEL, CONTEMPLATION RM, MOTHERS RM, MDF, JANITORS CLOSET, BREAK RM, GAME AREA, ELRCTRICAL & FIRE PUMP RM.

ROOM FINISH SCHEDULE

ROOM		WALLS (TRUE NORTH)							
NUMBER	NAME	NORTH	EAST	SOUTH	WEST	BASE	FLOOR	CEILING	COMMENTS
101	OFFICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
102	STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
103	WOMEN'S VESTIBULE	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
104	WOMEN'S RESTROOM	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
105	WOMEN'S LOCKER ROOM	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
106	WOMEN'S SHOWER ROOM	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
107	ELECTRICAL ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
108	POOL EQUIPMENT ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
109	MEN'S SHOWER ROOM	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
110	MEN'S LOCKER ROOM	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
111	MEN'S RESTROOM	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
112	MEN'S VESTIBULE	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-1 / PT-1	CT-4	EPT-1	PT-2	
113	JANITOR'S CLOSET	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
114	MECHANICAL ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
115	VENDING AREA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
116	INFORMATION AREA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

FINISH PLAN GENERAL NOTES

1. REFER ALSO TO DESIGN CRITERIA DOCUMENT FOR ADDITIONAL INFORMATION
2. ALL FINISH SELECTIONS IDENTIFIED IN LEGENDS, SCHEDULES, AND SPECIFICATIONS ARE NOT SUBJECT TO 'OR EQUAL' SUBSTITUTIONS U.N.O. THE CONTRACTOR AND SUBCONTRACTORS SHALL SUBMIT PRODUCTS AND FINISHES AS INDICATED IN THE DOCUMENTS.
3. NOTIFY ARCHITECT OF SCHEDULED FINISHES THAT ARE UNAVAILABLE OR DISCONTINUED AT THE EARLIEST OPPORTUNITY SUCH THAT A SUBSTITUTION CAN BE SELECTED WITHOUT JEOPARDIZING THE CONSTRUCTION SCHEDULE.
4. INSTALL ALL FINISH MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, SURFACE PREPARATION, ADHESIVES AND BACKINGS: INCLUDING WALLCOVERINGS, COATINGS, FLOORING MATERIALS, LAMINATES, ETC.
5. PREPARE ALL SURFACES TO RECEIVE NEW FINISH SCHEDULED, TYPICAL THROUGHOUT. CONCRETE SLAB TO RECEIVE NEW SEAL WHERE SAW-CUT AND PATCHED.
6. FLOOR MATERIAL TRANSITIONS AT DOOR OPENINGS ARE TO BE CENTERED BELOW THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE. SEE ALSO TRANSITION DETAILS THIS SHEET.
7. PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES, UNLESS NOTED OTHERWISE PER 8/A6.1. RESILIENT TRANSITION STRIPS TO MATCH BASE COLOR U.N.O. WHEN PROVIDED, REFER TO PLAN FOR ADDITIONAL DETAIL LOCATIONS.
8. WHERE FLOOR FINISH THICKNESS REQUIRES, FLOAT FLOOR SLAB AT FINISH TRANSITION AREAS A MINIMUM OF 2'-0" OR TO A ACHIEVE A MAXIMUM SLOPE OF 1:20 (WHICHEVER IS GREATER) TO ACHIEVE A UNIFORM AND FLUSH TRANSITION BETWEEN FINAL FINISHED SURFACES.
9. ACCESS PANELS, VISIBLE COVES OR ENCASEMENTS, VISIBLE ELECTRICAL PANELS, ETC. TO SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
10. ALL INTERIOR WALL & CEILING FINISHES AND TRIM OF PUBLIC AREAS TO COMPLY WITH CLASS A MATERIAL CLASSIFICATION; FLAME SPREAD RATING 0 TO 25, SMOKE DEVELOPED 200.
11. WHEREVER MORE THAN ONE FLOOR, WALL OR CEILING FINISH IS INDICATED FOR ANY SPACE IN THE SCHEDULE OF FINISHES, REFER TO DETAIL DRAWINGS FOR EXACT EXTENT OF EACH
12. IN SPACES WHERE FIXED EQUIPMENT IS SHOWN, BASE SHALL ONLY BE INSTALLED AT EXPOSED WALL SURFACES.
13. ALL EXPOSED FERROUS METAL SURFACES INCLUDING JOISTS, TRUSSES, BEAMS, DRAINS & LEADER PIPES, PLUMBING PIPES, HANGARS, STRAPS, A.C. DUCTS, ELECTRICAL CONDUITS AND OTHER MISCELLANEOUS ITEMS, IF NOT REQUIRED TO BE SHOP PRIMED, SHALL RECEIVE ONE (1) COAT OF PRIMER FOR GALVANIZED OR NON-GALVANIZED METAL (AS THE CASE MAY BE) PLUS TWO (2) COATS OR PAINT AS INDICATED IN THE FINISH SCHEDULE AND SPECIFICATIONS.
14. ALL EXPOSED FERROUS METAL SURFACES INCLUDING JOISTS, TRUSSES, BEAMS, DRAINS & LEADER PIPES, PLUMBING PIPES, HANGARS, STRAPS, A.C. DUCTS, ELECTRICAL CONDUITS AND OTHER MISCELLANEOUS ITEMS, IF NOT REQUIRED TO BE SHOP PRIMED, SHALL RECEIVE ONE (1) COAT OF PRIMER FOR GALVANIZED OR NON-GALVANIZED METAL (AS THE CASE MAY BE) PLUS TWO (2) COATS OR PAINT AS INDICATED IN THE FINISH SCHEDULE AND SPECIFICATIONS.
15. PROVIDE SCHLUTER METAL EDGE TRIM AT WALL TILE OUTSIDE CORNERS AND END CAPS, TYPCIAL.

1 FINISH PLAN
1/4" = 1'-0"

PT-1 — WALL FINISH
RB-1 — BASE FINISH
T-1 — FLOOR FINISH
FLOORING INSTALL DIRECTION
PT-1 — ACCENT WALL FINISH TAG

FINISH PLAN LEGEND

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Sheet No.
A160

A-190 SIGNAGE PLAN GENERAL NOTES

1 FINAL QUANTITES SHALL BE COORDINATED AND VERIFIED IN FIELD.
2 ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHICS PLAN MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ. SUB-CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROVIDE AS REQUIRED.
3 MOUNT SIGNAGE ACCORDING TO LOCAL CODES.
4 ALL PERMANENT SIGNANGE TO ACCESSIBLE AREAS TO HAVE RAISED BRAILLE CHARACTERS PER ANSI 117.1-2003
5 TYPICAL SIGN FONT IS SET IN ARIAL.
6 SEE DOOR SCHEDULE FOR DOOR SIGNAGE REQUIRED TEXT.

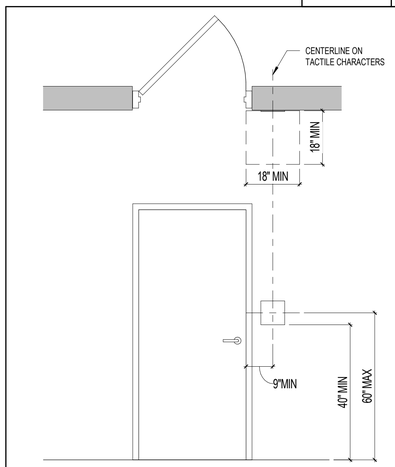
ARCHITECT TO REVIEW NOTES AND REVISE AS REQUIRED

NOTE:
SIGNAGE TO COMPLY WITH FBC-A SECTION 703. CONTRACTOR TO VERIFY THAT ALL ADA SIGNAGE MEETS THE REQUIREMENTS OF ALL LOCAL CODES AND THAT ALL ADA SIGNAGE HAS BEEN APPROVED BY LOCAL CODE OFFICIALS PRIOR TO PURCHASE AND INSTALLATION. LOCAL CODE OFFICIALS MAY REQUIRE VARIED OR ADDITIONAL SIGNAGE IN ORDER TO MEET LOCAL CODE REQUIREMENTS.

G13 ADA SIGNAGE

NOT TO SCALE

1 SIGNAGE PLAN - 1ST FLR
1/8" = 1'-0"



NFPA-101: 36.2.10
MARKING OF MEANS OF EGRESS. WHERE AN EXIT IS NOT IMMEDIATELY APPARENT FROM ALL PORTIONS OF THE SALES AREA, MEANS OF EGRESS SHALL HAVE SIGNS IN ACCORDANCE WITH SECTION 7.10.

NFPA-101: 7.10.1.3
EXIT DOOR TACTILE SIGNAGE. TACTILE SIGNAGE SHALL BE PROVIDED TO MEET ALL OF THE FOLLOWING CRITERIA, UNLESS OTHERWISE PROVIDED IN 7.10.1.4:
1. TACTILE SIGNAGE SHALL BE LOCATED AT EACH EXIT DOOR REQUIRING AN EXIT SIGN.
2. TACTILE SIGNAGE SHALL READ AS FOLLOWS: EXIT.
3. TACTILE SIGNAGE SHALL COMPLY WITH ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

NFPA-101: 7.10.1.4
EXISTING EXEMPTION. THE REQUIREMENTS OF 7.10.1.3 SHALL NOT APPLY TO EXISTING BUILDINGS, PROVIDED THAT THE OCCUPANCY CLASSIFICATION DOES NOT CHANGE

NOTES:
1. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NONGLARE FINISH.
2. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
3. CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM & SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.
4. PICTOGRAMS SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6" IN HEIGHT.
5. CHARACTERS AND BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHALL BE PLACED A MINIMUM OF 3/8" AND A MAXIMUM OF 1/2" DIRECTLY BELOW THE TACTILE CHARACTERS. FLUSH LEFT OR CENTERED. WHEN TACTILE TEXT IS MULTI-LINED, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT.
6. CONTRACTED II BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. DOTS SHALL BE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. BRAILLE DOTS SHALL BE DOMED OR ROUNDED. BRAILLE SHOWN IS FOR PLACEMENT ONLY. USE CORRECT BRAILLE FOR SIGN PRODUCTION.
7. WHERE PERMANENT IDENTIFICATION SIGNS ARE PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.
8. MOUNTING HEIGHT SHALL BE 60" AFF. TO THE CENTER LINE OF THE SIGNS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE W/O ENCOUNTERING PROTRUDING OBJECTS.
9. EXIT SIGN LOCATION REQUIREMENTS:
   A. EACH GRADE LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD 'EXIT'
   B. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN.
   C. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRAD-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE THAT DOES NOT UTILIZE A STAIR OR RAMP, OR BY MEANS OF AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS 'EXIT ROUTE'.
   D. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM ORAREA THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, 'EXIT ROUTE'.
   E. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS 'TO EXIT'.
10. ALL SIGNS SHALL COMPLY WITH STATE AND LOCAL CODES AND/OR ORDINANCES

A11 TACTILE SIGNAGE DETAIL

NOT TO SCALE

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Landscape No. LC0000298
Surveyor No. 7143

Architect of Record
##/##/2021
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No.	DATE	Revision

Designed:	CPH
Drawn:	KAR
Checked:	JAB
Job No.:	M7030.1
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SIGNAGE TYPES & NOTES

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

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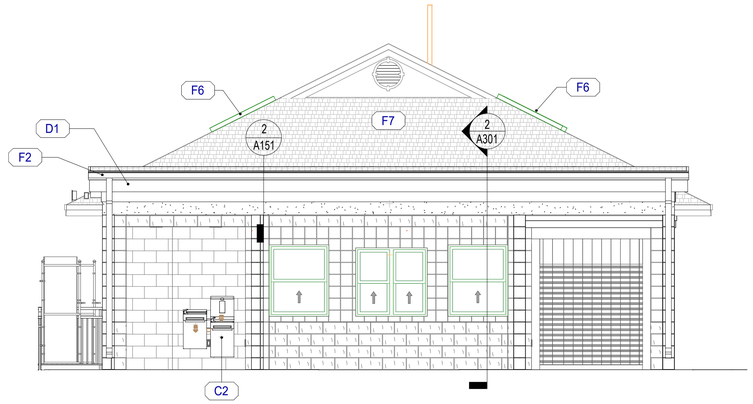
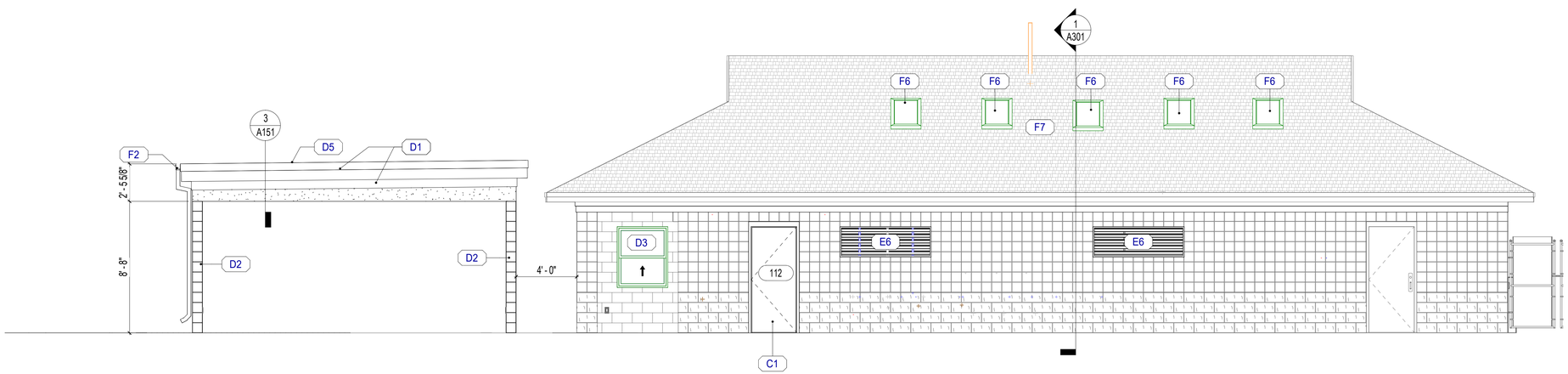
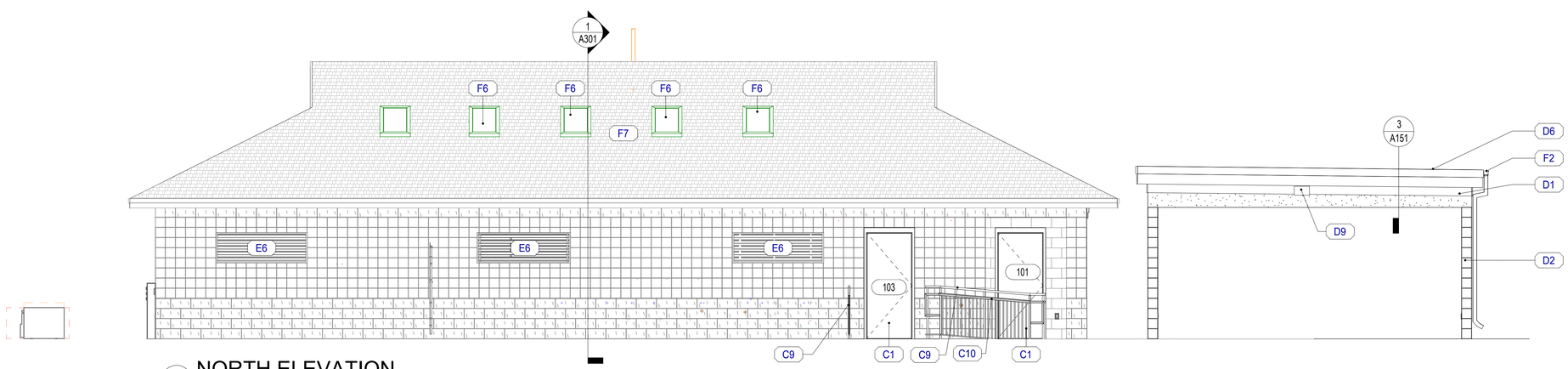
Sheet No.
A190



3 WEST ELEVATION
1/4" = 1'-0"



2 SOUTH ELEVATION
1/4" = 1'-0"



1 NORTH ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

#	DESCRIPTION
C1	ALUMINUM DOOR AND FRAME AS SCHEDULED
C2	DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE PLUMBING
C9	ALUMINUM GAURDRAIL.
C10	ALUMINUM HANDRAIL.
D1	CEMENT BOARD TRIM
D2	8" CMU COLUMN, REFER TO STRUCTURAL.
D3	NEW WINDOW IN EXISTING OPEING, TO MATCH EXISTING.
D5	NEW TPO ROOF MEMBRANE, REFER TO ROOF PLAN.
D6	TPO ROOFING MEMBRANE ON WOOD DECK, REFER TO STRUCTURAL.
D9	PACE CLOCK, BY OWNER INSTALLED BY G.C.
E6	EXISTING LOUVER TO REMIAN.
F2	ALUMINUM GUTTER & DOWNSPOUTS, G.C. TO PROVIDE CONCRETE SPLASHBLOCK.
F6	NEW SKYLIGHTS IN EXISTING SHAFTS.
F7	EXISTING ROOFING TO REMAIN, MODIFY ONLY AS REQUIRED.

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No.	DATE	Revision

Designed:	CPH
Drawn:	KAR
Checked:	JAB
Job No.:	M7030.1
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EXTERIOR ELEVATIONS

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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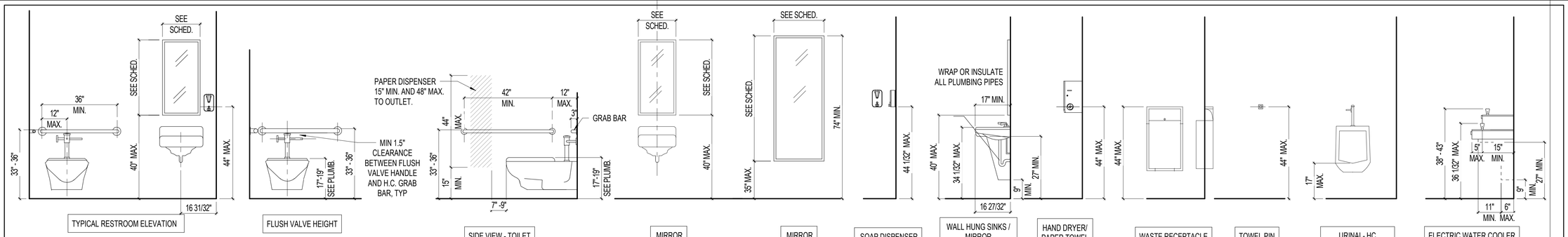
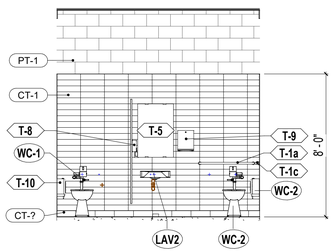
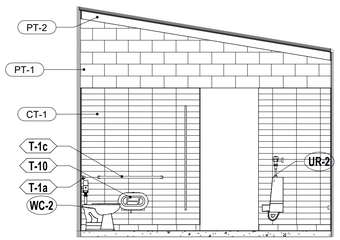
Sheet No.
A201



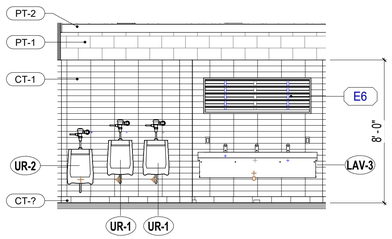
PLUMBING ACCESSORY MOUNTING HEIGHTS



1 INTERIOR ELEVATION - MEN'S RESTROOM
1/4" = 1'-0"



2 INTERIOR ELEVATION - MEN'S RESTROOM
1/4" = 1'-0"



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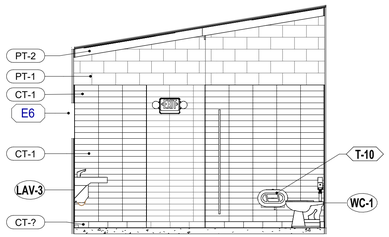
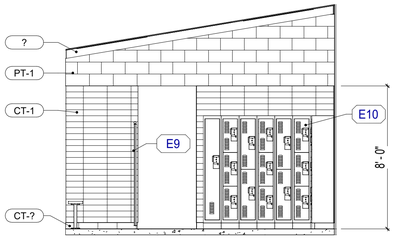
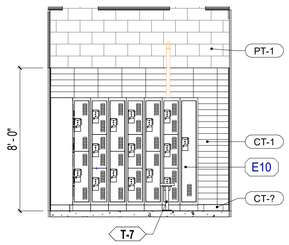
1/4" = 1'-0"



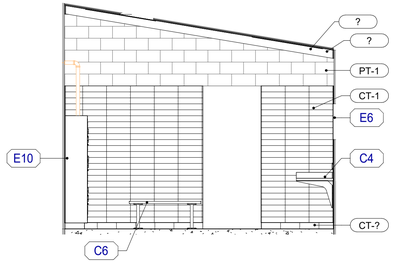
4 INTERIOR ELEVATION - MEN'S RESTROOM
1/4" = 1'-0"



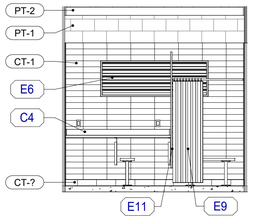
5 INTERIOR ELEVATION - MEN'S LOCKER ROOM
1/4" = 1'-0"



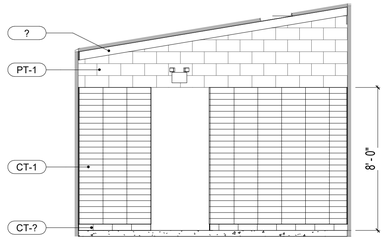
6 INTERIOR ELEVATION - MEN'S LOCKER ROOM
1/4" = 1'-0"



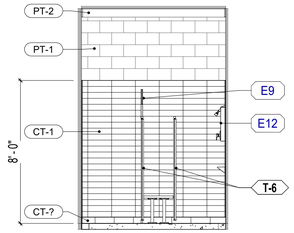
7 INTERIOR ELEVATIONS -MEN'S LOCKER ROOM
1/4" = 1'-0"



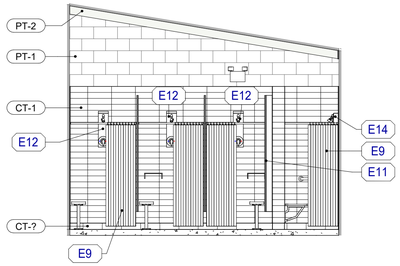
8 INTERIOR ELEVATIONS -MEN'S LOCKER ROOM
1/4" = 1'-0"



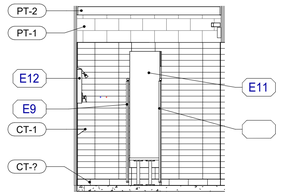
9 INTERIOR ELEVATIONS - MEN'S SHOWER ROOM
1/4" = 1'-0"



10 INTERIOR ELEVATION - MEN'S SHOWER ROOM
1/4" = 1'-0"



11 INTERIOR ELEVATION - MEN'S SHOWER ROOM
1/4" = 1'-0"



12 INTERIOR ELEVATION - MEN'S SHOWER ROOM
1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	Manufacturer	Model
	Elapsed time digital electric clock. Single display time that can be used either as a clock or elapsed time indicator. Clock consists of buttons to set minutes, and hours for the time. For use in operating and delivery room, and medical service columns. Analog or digital displays may be provided as specified by the user.		
T-1a	GRAB BAR - 36 INCH	BRADLEY	812-36
T-1b	GRAB BAR - 18 INCH	BRADLEY	812-18
T-1c	GRAB BAR - 42 INCH	BRADLEY	812-42
T-1d	GRAB BAR - CORNER 16x27 INCH	BRADLEY	B-6861
T-2	FOLDING SHOWER SEAT	BOBRICK	B-518
T-3	RESTROOM PARTITION, FLOOR MOUNTED	METPAR	N/A
T-4	SANITARY NAPKIN RECEPTACLE	BRADLEY	4A10
T-5	FRAMELESS MIRROR, CLIP FASTENERS. 24x36 INCHES	BRADLEY	747
T-6	VINYL SHOWER CURTAIN AND ROD	INPRO	SUPER BIO / CE100753
T-6a	ANTIMICROBIAL PRIVACY CURTAIN AND ROD	INPRO	CHALET / CE100753
T-7	SOLID PLASTIC PEDESTAL BENCH	BRADLEY	LENOXPEDESTAL
T-8	SOAP DISPENSER	BRADLEY	6562
T-9	SURFACE MOUNTED PAPER TOWEL DISPENSER	BRADLEY	B-262
T-10	JUMBO DUAL ROLL TOILET PAPER DISPENSER	BRADLEY	54242
T-11	SHOWER SHELF	Bradley Corporation	755-12

KEYNOTE LEGEND

#	DESCRIPTION
C4	SOLID SURFACE COUNTER TOP WITH WALL MOUNT BRACKETS, AS REQUIRED
C6	TEAK BENCH
E6	EXISTING LOUVER TO REMIAN.
E9	PRIVANCY CURTAIN.
E10	LOCKERS
E11	PARTITION.
E12	SHOWER HEAD & CONTROL, REFER TO PLUMBING
E14	ADA SHOWER HEAD & CONTROL, REFER TO PLUMBING

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No.	DATE	Revision

Designed:	CPH
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Job No.:	M7030.1
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INTERIOR ELEVATIONS

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RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

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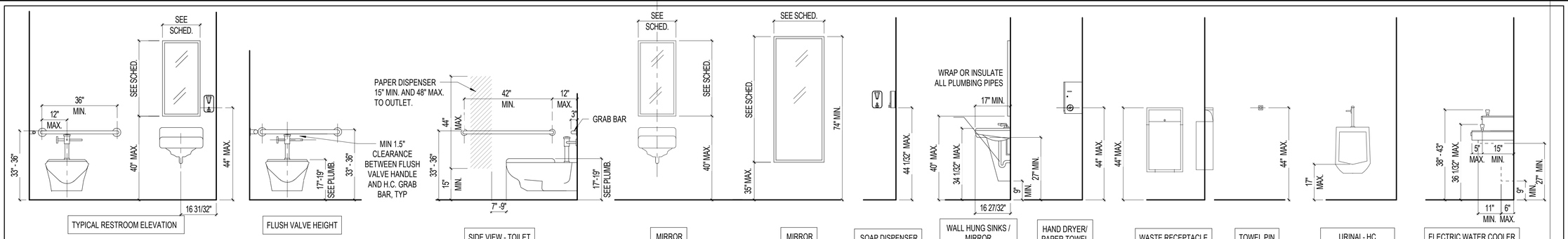
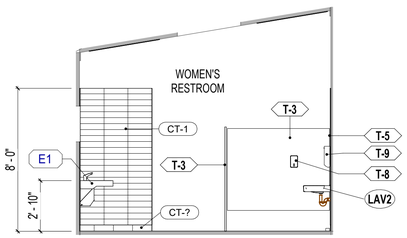
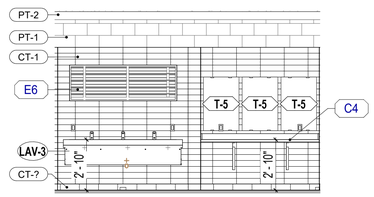
Sheet No.
A250



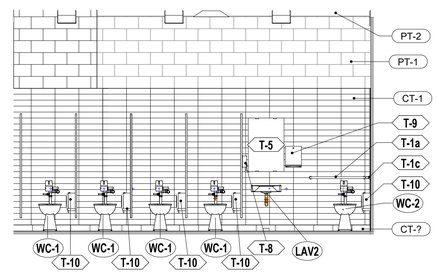
PLUMBING ACCESSORY MOUNTING HEIGHTS



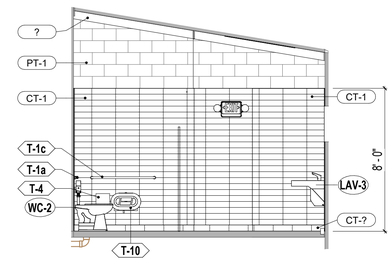
1 INTERIOR ELEVATION - WOMEN'S RESTOOM
1/4" = 1'-0"



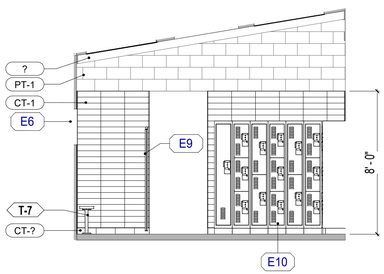
2 INTERIOR ELEVATION - WOMEN'S RESTOOM
1/4" = 1'-0"



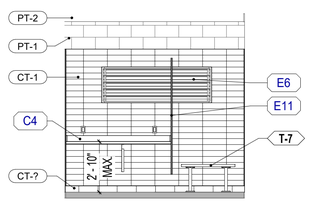
3 INTERIOR ELEVATION - WOMEN'S RESTOOM
1/4" = 1'-0"



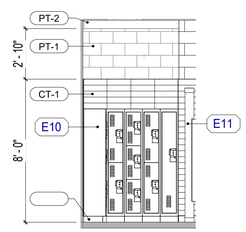
4 INTERIOR ELEVATION - WOMEN'S RESTOOM
1/4" = 1'-0"



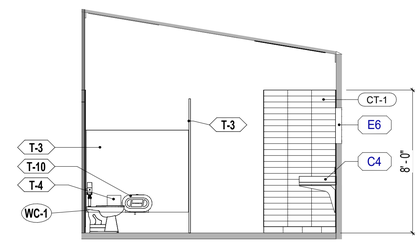
5 INTERIOR ELEVATIONS - WOMEN'S LOCKER ROOM
1/4" = 1'-0"



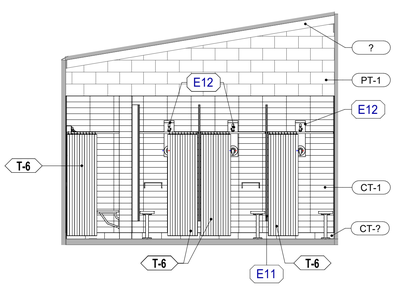
6 INTERIOR ELEVATIONS - WOMEN'S LOCKER ROOM
1/4" = 1'-0"



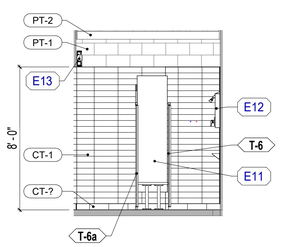
7 INTERIOR ELEVATIONS - WOMEN'S LOCKER ROOM
1/4" = 1'-0"



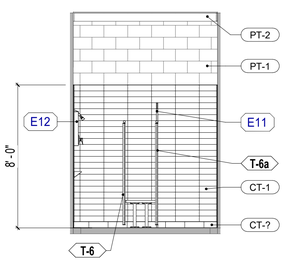
8 INTERIOR ELEVATIONS - WOMEN'S LOCKER ROOM
1/4" = 1'-0"



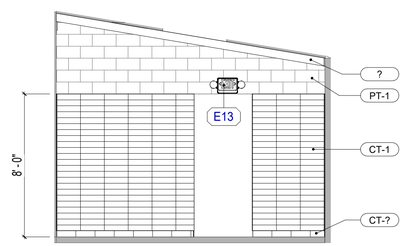
9 INTERIOR ELEVATIONS - WOMEN'S SHOWER ROOM
1/4" = 1'-0"



10 106 WOMEN'S SHOWER ROOM - NORTH ELEVATION
1/4" = 1'-0"



11 INTERIOR ELEVATIONS - WOMEN'S SHOWER ROOM
1/4" = 1'-0"



12 INTERIOR ELEVATIONS - WOMEN'S SHOWER ROOM
1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

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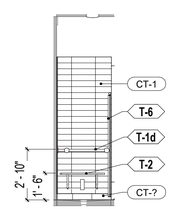
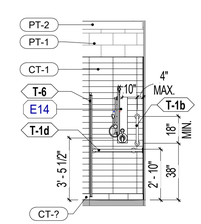
	Elapsed time digital electric clock. Single display time that can be used either as a clock or elapsed time indicator. Clock consists of buttons to set minutes, and hours for the time. For use in operating and delivery room, and medical service columns. Analog or digital displays may be provided as specified by the user.		
T-1a	GRAB BAR - 36 INCH	BRADLEY	812-36
T-1b	GRAB BAR - 18 INCH	BRADLEY	812-18
T-1c	GRAB BAR - 42 INCH	BRADLEY	812-42
T-1d	GRAB BAR - CORNER 16x27 INCH	BRADLEY	B-6861
T-2	FOLDING SHOWER SEAT	BOBRICK	B-518
T-3	RESTROOM PARTITION, FLOOR MOUNTED	METPAR	N/A
T-4	SANITARY NAPKIN RECEPTACLE	BRADLEY	4A10
T-5	FRAMELESS MIRROR, CLIP FASTENERS. 24x36 INCHES	BRADLEY	747
T-6	VINYL SHOWER CURTAIN AND ROD	INPRO	SUPER BIO / CE100753
T-6a	ANTIMICROBIAL PRIVACY CURTAIN AND ROD	INPRO	CHALET / CE100753
T-7	SOLID PLASTIC PEDESTAL BENCH	BRADLEY	LENOXPEDESTAL
T-8	SOAP DISPENSER	BRADLEY	6562
T-9	SURFACE MOUNTED PAPER TOWEL DISPENSER	BRADLEY	B-262
T-10	JUMBO DUAL ROLL TOILET PAPER DISPENSER	BRADLEY	54242
T-11	SHOWER SHELF	Bradley Corporation	755-12

KEYNOTE LEGEND

#	DESCRIPTION
C4	SOLID SURFACE COUNTER TOP WITH WALL MOUNT BRACKETS, AS REQUIRED
E1	(3) BAY SOLID SURFACE SINK BASIN; WALL MOUNTED, REFER TO PLUMBING
E6	EXISTING LOUVER TO REMIAN.
E9	PRIVANCY CURTAIN.
E10	LOCKERS
E11	PARTITION.
E12	SHOWER HEAD & CONTROL, REFER TO PLUMBING
E13	LIGHTED EXIT SIGN, SEE ELECTRICAL
E14	ADA SHOWER HEAD & CONTROL, REFER TO PLUMBING



13 ADA SHOWER
1/4" = 1'-0"



14 ADA SHOWER
1/4" = 1'-0"

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State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143
Architect of Record
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INTERIOR ELEVATIONS

MOUNT DORA LINCOLN PARK PHASE II
RESTROOM IMPROVEMENTS
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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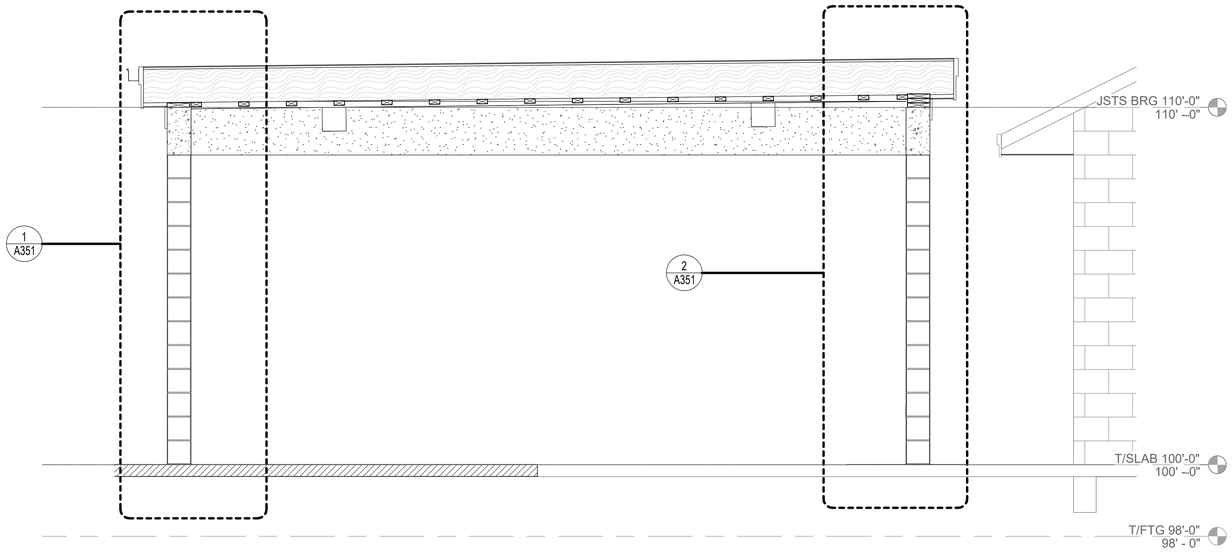
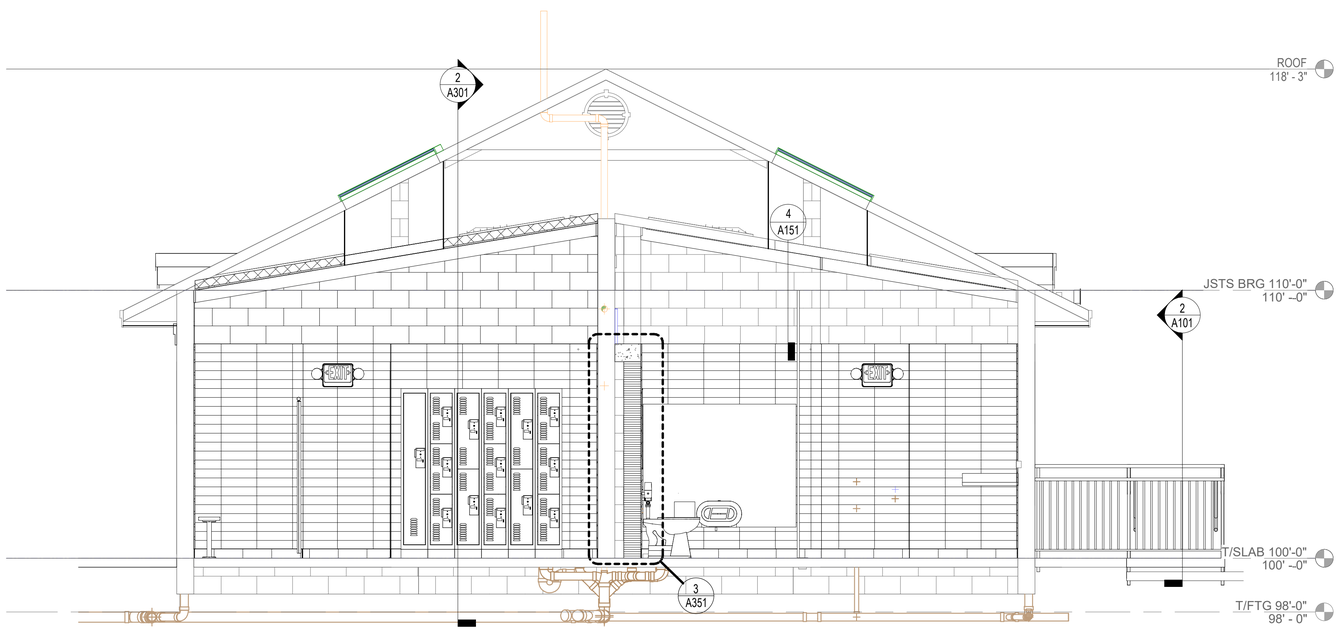
Sheet No.
A251



2 BUILDING SECTION @ CANOPY
1/2" = 1'-0"



1 BUILDING SECTION @ RESTROOM
3/8" = 1'-0"

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BUILDING SECTIONS

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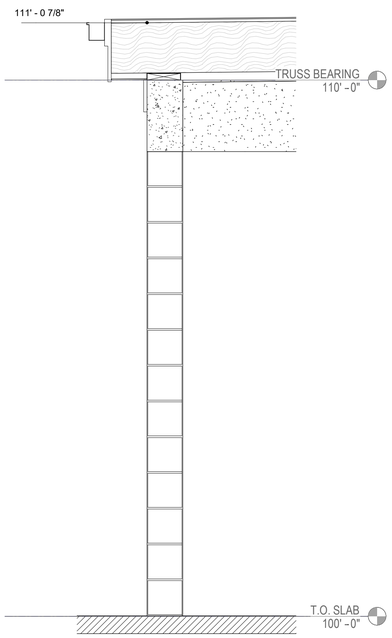
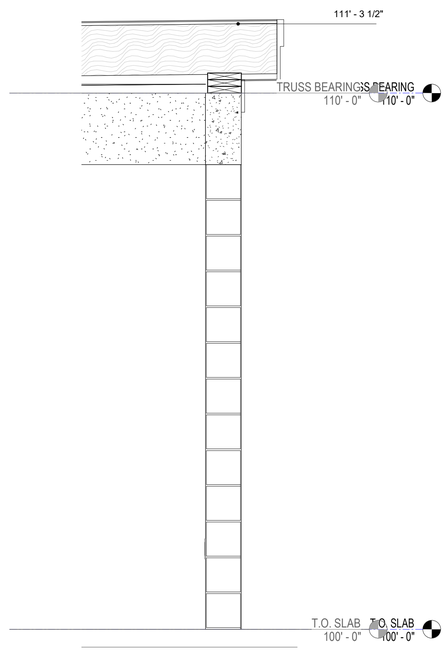
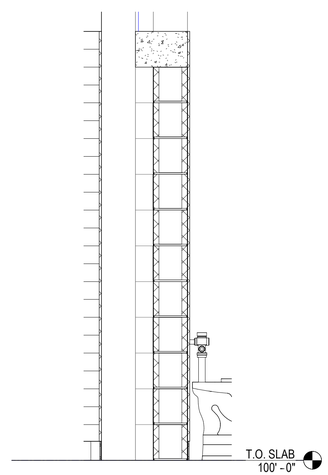
Sheet No.
A301



1 Section 4 - Callout 1
3/4" = 1'-0"



2 Section 4 - Callout 2
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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WALL SECTIONS

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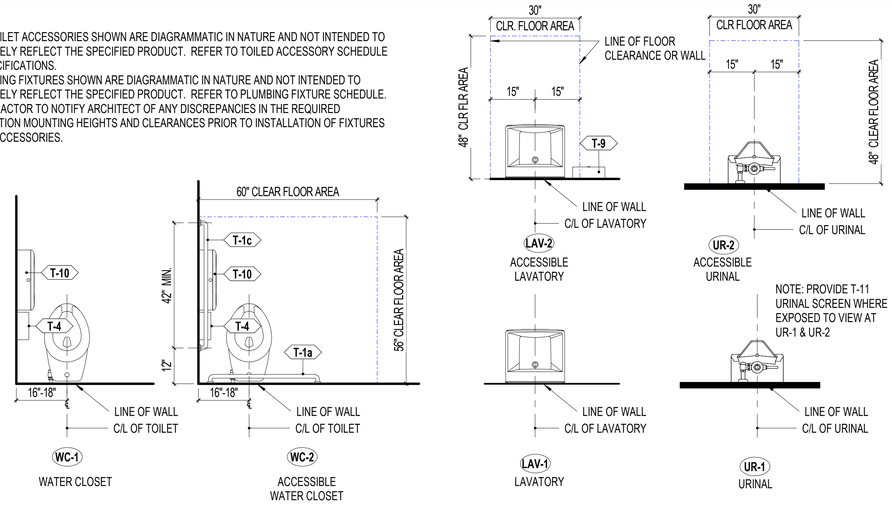
Sheet No.
A351

NOTES
1. ALL TOILET ACCESSORIES SHOWN ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO ACCURATELY REFLECT THE SPECIFIED PRODUCT. REFER TO TOILED ACCESSORY SCHEDULE AND SPECIFICATIONS.
2. PLUMBING FIXTURES SHOWN ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO ACCURATELY REFLECT THE SPECIFIED PRODUCT. REFER TO PLUMBING FIXTURE SCHEDULE.
3. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE REQUIRED INSTALLATION MOUNTING HEIGHTS AND CLEARANCES PRIOR TO INSTALLATION OF FIXTURES AND/OR ACCESSORIES.



L1 TYPICAL PLUMBING FIXTURE CONFIGURATION LEGEND
1/2" = 1'-0"

RESTROOM PLAN GENERAL NOTES

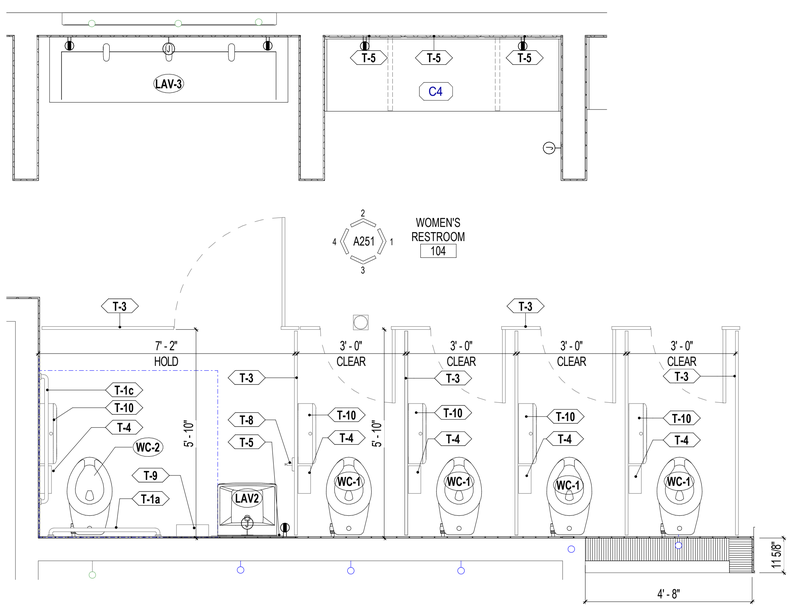
1 - RESERVED -
2 PROVIDE FRTW BLOCKING AT ALL ACCESSORY AND GRAB BAR LOCATIONS.
3 TOILET ROOM SIGNS BY G.C. SHALL COMPLY WITH ANSI A117.1 SECTION 703.
4 ALL TOILET ACCESSORIES AND PLUMBING FIXTURES SHALL BE MOUNTED IN ACCORDANCE TO ANSI A117.1
5 LAVATORIES SHALL BE LOCATED SUCH THAT TOP OF RIM OR COUNTER SURFACE TO BE AT A MAX. OF 34" A.F.F. PROVIDE 29" MIN. CLEARANCE BETWEEN FINISH FLOOR AND BOTTOM OF APRON AND SHALL COMPLY WITH ANSI A117.1 SECTION 606.
6 LAVATORIES AND ELECTRIC WATER COOLERS SHALL BE LOCATED SUCH THAT A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED AND SHALL COMPLY WITH ANSI A117.1 SECTION 305.3 & SECTION 306.
7 PROVIDE PROTECTIVE INSULATION WHICH SHALL COMPLY WITH ANSI A117.1, SECTION 606.6 AT ALL ACCESSIBLE LAVATORIES WITH EXPOSED PIPING.
8 UNO WATER CLOSETS & URINAL FLUSH CONTROLS AND FAUCETS SHALL BE AUTOMATIC OR BATTERY OPERATED AND SHALL COMPLY WITH ANSI A117.1 SECTION 604.4. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NOT MORE THAN 44" A.F.F. REFER TO PLUMBING FOR FIXTURE TYPE AND CONTROLS
9 ACCESSIBLE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAX. OF 17" A.F.F. AND SHALL COMPLY WITH ANSI A117.1, SECTION 605.2.
10 ACCESSIBLE TOILET STALL DOORS SHALL BE 32" CLEAR, SHALL BE SELF CLOSING, AND SHALL BE EQUIPPED WITH A GRASPABLE PULL ON BOTH SIDES. STALLS SHALL COMPLY WITH ANSI A117.1, SECTION 404.2.3
11 ADDITIONAL STALLS SHALL BE PROVIDED IN CONFORMANCE WITH ANSI A117.1-2009, SECTION 604.
12 URINAL SCREENS AND TOILET PARTITIONS TO BE PROVIDED AND INSTALLED BY G.C.
13 U.N.O. ALL ACCESSORIES AND DISPENSERS SHALL BE SUPPLIED AND INSTALLED BY GC.
14 NEW RESTROOM(S) TO BE FULLY ACCESSIBLE PER THE PROVISIONS OF ANSI A117.1.

TOILET ACCESSORY SCHEDULE

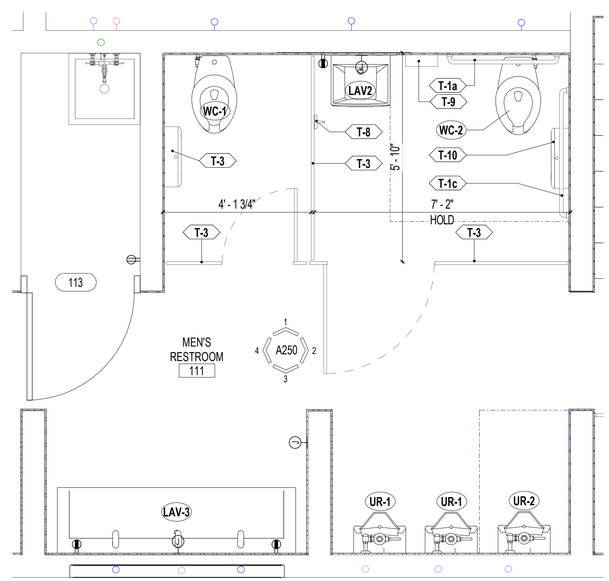
MARK	DESCRIPTION	Manufacturer	Model
	Elapsed time digital electric clock. Single display time that can be used either as a clock or elapsed time indicator. Clock consists of buttons to set minutes, and hours for the time. For use in operating and delivery room, and medical service columns. Analog or digital displays may be provided as specified by the user.		
T-1a	GRAB BAR - 36 INCH	BRADLEY	812-36
T-1b	GRAB BAR - 18 INCH	BRADLEY	812-18
T-1c	GRAB BAR - 42 INCH	BRADLEY	812-42
T-1d	GRAB BAR - CORNER 16x27 INCH	BRADLEY	B-6861
T-2	FOLDING SHOWER SEAT	BOBRICK	B-518
T-3	RESTROOM PARTITION, FLOOR MOUNTED	METPAR	N/A
T-4	SANITARY NAPKIN RECEPTACLE	BRADLEY	4A10
T-5	FRAMELESS MIRROR, CLIP FASTENERS. 24x36 INCHES	BRADLEY	747
T-6	VINYL SHOWER CURTAIN AND ROD	INPRO	SUPER BIO / CE100753
T-6a	ANTIMICROBIAL PRIVACY CURTAIN AND ROD	INPRO	CHALET / CE100753
T-7	SOLID PLASTIC PEDESTAL BENCH	BRADLEY	LENOXPEDESTAL
T-8	SOAP DISPENSER	BRADLEY	6562
T-9	SURFACE MOUNTED PAPER TOWEL DISPENSER	BRADLEY	B-262
T-10	JUMBO DUAL ROLL TOILET TISSUE	BRADLEY	54242
T-11	SHOWER SHELF	Bradley Corporation	755-12

KEYNOTE LEGEND

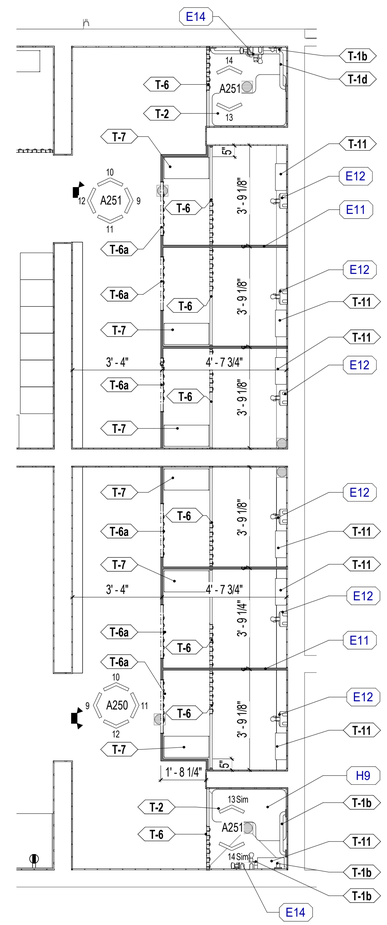
#	DESCRIPTION
C4	SOLID SURFACE COUNTER TOP WITH WALL MOUNT BRACKETS, AS REQUIRED
E11	PARTITION.
E12	SHOWER HEAD & CONTROL. REFER TO PLUMBING
E14	ADA SHOWER HEAD & CONTROL. REFER TO PLUMBING
H9	REMOVE AND DISCARD ADA SEAT, SHOWER HEAD/ CONTROL & GRAB BAR.



1 ENLARGED PLAN - WOMEN'S RESTROOM
1/2" = 1'-0"



2 ENLRAGED RESTOOM - MEN'S RESTROOM
1/2" = 1'-0"



3 ENLARGED FLOOR PLAN - SHOWER ROOMS
3/8" = 1'-0"

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ENLARGED FLOOR PLANS - TOILET

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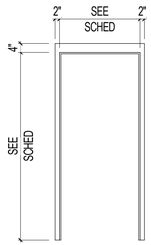
Sheet No.
A402

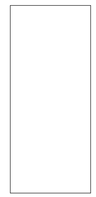
DOOR SCHEDULE

MARK	DOOR FRAME HEIGHT	DOOR FRAME WIDTH	DOOR FRAME TYPE	DOOR FRAME MATERIAL	DOOR PANEL TYPE	DOOR PANEL MATERIAL	RATING	GLAZING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	COMMENTS
101	7' - 0"	3' - 0"	1	Alum	F	Alum	N/A	N/A	3/A500	5/A500	4/A500	
103	7' - 0"	3' - 0"	1	Alum	F	Alum	N/A	N/A	3/A500	5/A500	4/A500	
112	7' - 0"	3' - 0"	1	Alum	F	Alum	N/A	N/A	3/A500	5/A500	4/A500	
113	7' - 0"	3' - 0"	1	Alum	F	Alum	N/A	N/A	3/A500	5/A500	4/A500	



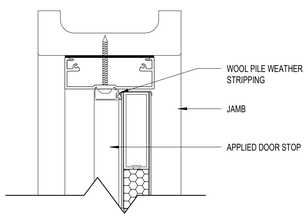
DOOR FRAME TYPE: 1

1 DOOR FRAME TYPES
3/8" = 1'-0"

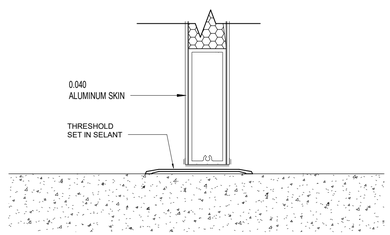


PANEL TYPE: F

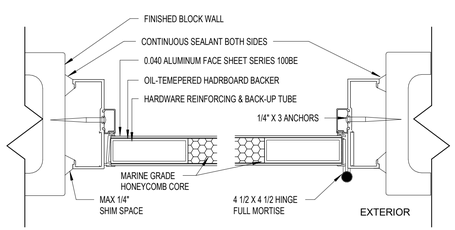
2 DOOR PANEL TYPES
3/8" = 1'-0"



3 DOOR HEAD DETAIL
3" = 1'-0"



4 DOOR THRESHOLD DETAIL
3" = 1'-0"



5 DOOR JAMB DETAIL
3" = 1'-0"

DOOR & HARDWARE GENERAL NOTES

1 COORDINATE WITH SCHEDULE.
2 DOOR NUMBERING MUST BE FOLLOWED EXACTLY PER PLANS. ANY CONFLICTS SHOULD BE BROUGHT TO ARCHITECTS OR TENANT OM'S ATTENTION.
3 ALL WOOD BLOCKING REQUIRED AT EXTERIOR WALL/WINDOW DETAILS TO BE PRESSURE TREATED.
4 G.C. TO VERIFY ALL HARDWARE FUNCTION, KEYING AND SECURITY REQUIREMENTS WITH OWNER PRIOR TO PURCHASE. ALL EXISTING DOORS TO BE REUSED TO GET NEW CORES. COORDINATE KEYING WITH OWNER.
5 UNDERCUT DOORS 1" AT TOILET ROOMS, JANITOR CLOSETS AND A/V CLOSET FOR AIR INTAKE (SEE MECHANICAL DRAWINGS). NO DOOR LOUVERS WILL BE ACCEPTED.
6 VERIFY ROUGH OPENING SIZES AND REQUIREMENTS WITH DOOR/FRAME MANUFACTURER.
7 MAXIMUM PULL FORCES FOR EXTERIOR DOORS TO BE 15 LBS.
8 NOT USED
9 PROVIDE RUST INHIBITOR COATING AND STAINLESS STEEL SCREWS/FASTENERS ON ALL HARDWARE ITEMS AT EXTERIOR DOORS PER MANUFACTURER SPECIFICATIONS.
10 NOT USED
11 NOT USED
12 NOT USED
13 ALL DOOR HARDWARE SHALL BE FULLY ACCESSIBLE PER THE PROVISIONS OF IBC 1010.1.0 AND ANSI A117.1 SECTION 404.
14 ALL DOORS TO BE READILY OPERABLE IN THE DIRECTION OF EGRESS TRAVEL WITHOUT THE USE OF A KEY OR SPECIAL EFFORT.
15 DOORS OPENING INTO SEMI-HEATED SPACE, UNCONDITIONED SPACE, OR TO THE EXTERIOR SHALL COMPLY WITH LOCAL ENERGY CODES.
16 GC TO COORDINATE WITH OWNER/TENANT SUPPLIED AND INSTALLED SECURITY AND ALARM SYSTEM

DOOR SCHEDULE COMMENTS LEGEND

1 ADD SURFACE APPLIED DOOR SWEEP AND WEATHER STRIPPING TO IMPROVE ACOUSTIC PERFORMANCE.
2 ADD ACCESS CONTROL HARDWARE TO SET.
3 ADD POWER ASSIST DOOR OPENING DEVICE WITH WIRELESS ACTUATORS.
4 ADD CLOSER AND CARD READER ON THE SAME SIDE OF BOTH LEAVES. ADD HOLD OPEN ON UPPER LEFT.
5 ADD REX EQUIPMENT - CARD IN, REX OUT.
6 ADD DOOR CLOSER
7 ADD FILM ON RELITE - "FROSTED". BASIS OF DESIGN: 3M, 7725-314 DUSTED CRYSTAL

DOOR & WINDOW ABBREVIATIONS

1 ALUM: ALUMINUM
2 CLF: CHAIN LINK FENCE
3 GWB: GYPSUM WALL BOARD
4 HM: HOLLOW METAL
5 PREFIN: PREFINISHED
6 SCWD: SOLID CORE WOOD DOOR
7 IG: INSULATED GLAZING
8 TG: TEMPERED GLAZING
9 TIG: TEMPERED, INSULATED GLAZING
10 FF: FACTORY FINISH

ARCHITECT TO REVIEW NOTES AND REVISE AS REQUIRED

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DOOR SCHEDULE

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Sheet No.
A500

GENERAL NOTES

1	THE FOLLOWING NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS.
2	ALL DESIGN AND CONSTRUCTION SHALL BE BASED ON: FLORIDA BUILDING CODE 2017 6TH EDITION, INCLUDING ALL ADOPTED REFERENCE STANDARDS AND MATERIALS SPECIFICATIONS REFERENCED THEREIN.
3	THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO AUGMENT, NOT SUPERSEDE, THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS. DRAWINGS MAY NOT BE TO SCALE.
4	THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.
5	IF MATERIAL QUANTIITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR QUANTITY, STRENGTH OR NOTED SHALL BE PROVIDED.
6	THE STRUCTURAL MODIFICATIONS ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION, INCLUDING PROVISIONS FOR CHANGEABLE WEATHER UNTIL THE BUILDING IS CLOSED AND CONDITIONED. THE CONTRACTOR SHOULD DESIGN, INSTALL AND SUBSEQUENTLY REMOVE ANY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS NECESSARY TO MAINTAIN SAFETY AND STRUCTURAL STABILITY DURING CONSTRUCTION.
7	IT SHALL BE THE SOLE RESPONSIBLY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PROCEDURES, WHILE FOLLOWING ALL APPLICABLE SAFETY CODES, BUILDING CODES AND GOVERNING REGULATIONS WITH JURISDICTION OVER THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PROCEDURES.
8	ANY FRAMING SHOWN ON DRAWINGS THAT SUPPORT EQUIPMENT (WHETHER SUPPORTED ABOVE OR SUSPENDED BELOW), DESIGN LOADS, OPENINGS AND PENETRATIONS, AND STRUCTURAL MEMBERS IN ANY MANNER RELATED TO HVAC, PLUMBING, ELECTRICITY OR FIRE PROTECTION REQUIREMENTS IS BASED ON EQUIPMENT DESIGNED, SHOWN AND/OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS. ALL REQUIREMENTS FRAMING MAY NOT BE SHOWN. USING THE DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS, THE GENERAL CONTRACTOR AND SUB-CONTRACTOR AND/OR EACH PRIME CONTRACTOR MUST COORDINATE AND INSTALL THE ACTUAL FRAMING REQUIRED FOR THE EQUIPMENT TO BE INSTALLED, AND INCLUDE COST FOR ALL REQUIRED FRAMING IN THE BID.
9	EXISTING BUILDING: INSTALL TEMPORARY SUPPORT AND OTHER MEASURES AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING BUILDING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND FINAL CLEARANCE OF REQUIRED NEEDLING, SHORING, UNDERPINNING OR BRACING OF THE EXISTING BUILDING. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT THE NEW CONSTRUCTION PRIOR TO THE START OF WORK. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE ASSUMED, HAVE NOT BEEN CONFIRMED, ARE NOT GUARANTEED AND MAY CONFLICT WITH THE NEW WORK REQUIRED. FIELD VERIFY THAT THE EXISTING FRAMING AFFECTED BY THE NEW WORK IS IN SOUND CONDITION AND DOES NOT DISPLAY VISIBLE SIGNS OF DISTRESS OR DETERIORATION OR HAS BEEN PREVIOUSLY MODIFIED OR ALTERED. IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS; DO NOT PROCEED WITH THAT PORTION OF WORK UNTIL ALL DISCREPANCIES HAVE BEEN RESOLVED. THE CONTRACTOR SHOULD SUBMIT A FIELD SURVEY SHOWING ALL DISCREPANCIES BETWEEN THE EXISTING CONDITION AND THE NEW WORK. BASED ON THE REPORTED FIELD CONDITIONS, THE ARCHITECT WILL SUBMIT SUPPLEMENTAL INSTRUCTIONS FOR ALL WORK (NEW OR EXISTING) REQUIRING MODIFICATIONS.
10	THE STRUCTURAL DRAWINGS ARE ONE DISCIPLINE OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES CONTAIN ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND COORDINATE THE INFORMATION INDICATED IN THESE CONSTRUCTION DOCUMENTS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.
11	ALL DETAILS, SECTIONS AND NOTES INDICATED ON THE CONSTRUCTION DOCUMENTS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.
12	SHOULD ANY OF DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES. THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
13	SPECIALTY ENGINEERED PRODUCTS THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS WHICH SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL BE, BUT ARE NOT LIMITED TO, THE FOLLOWING: 1. STEEL STAIRS 2. LADDERS 3. HANDRAILS 4. CLADDING SYSTEMS 5. MISCELLANEOUS STEEL
14	SPECIAL INSPECTIONS: NO SPECIAL INSPECTIONS ARE REQUIRED FOR STRUCTURAL ITEMS. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS WHERE REQUIRED.
15	SHOP DRAWINGS A. SUBMIT THE FOLLOWINGS DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION: 1. STRUCTURAL STEEL 2. CONCRETE MIX DESIGNS 3. CONCRETE REINFORCEMENT B. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR (TO INCLUDE INITIALS, DATE AND DISPOSITION), PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER. THE ENGINEER WILL RETURN ALL DRAWINGS, UN-REVIEWED, THAT DO NOT BEAR THE APPROVAL STAMP OF THE CONTRACTOR.

DESIGN CRITERIA

1	DESIGN LOADS: A. DESIGN ROOF DEAD LOAD: 20PSF B. DESIGN ROOF LIVE LOAD: 20PSF C. DESIGN FLOOR LIVE LOAD: 100PSF D. DESIGN WIND LOAD: 1. ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), VULT = 165 MPH NOMINAL DESIGN WIND SPEED (3-SECOND GUST), VALL = 128 MPH 2. RISK CATEGORY: II 3. WIND EXPOSURE CATEGORY: C 4. INTERNAL PRESSURE COEFFICIENTS: +/- 0.18 5. WIND-BORNE DEBRIS REGION (WITHIN HURRICANE-PRONE REGIONS) A. WITHIN 1 MILE OF THE COASTAL MEAN HIGH WATERLINE WHERE VULT IS 130 MPH OR GREATER; OR B. IN AREAS WHERE VULT IS 140 MPH OR GREATER. E. DESIGN SNOW LOAD: 1. GROUND SNOW LOAD: 0 PSF 2. FLAT SNOW LOAD: 0 PSF 3. SNOW EXPOSURE FACTOR, Ce: 1.0 4. SNOW IMPORTANCE FACTOR, Is: 1.0 5. SNOW THERMAL FACTOR, Ct: 1.0 F. DESIGN SEISMIC LOAD: 1. RISK CATEGORY: N/A 2. DESIGN CATEGORY: N/A 3. SITE CLASS: N/A 4. BASIC S-R SYSTEM: ORDINARY CONCRETE SHEAR WALLS 5. RESPONSE MODIFICATION FACTOR, R: N/A 6. RESPONSE COEFFICIENT, CS: N/A 7. Ss: N/A 8. S1: N/A 9. Sds: N/A 10. Sd1: N/A 11. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE 12. BASE SHEAR: 0 KIP

SAWN LUMBER

1	ALL GRADES OF LUMBER SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). lUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%: A. SOUTHERN PINE NO. 1 B. DOUGLAS FIR-LARCH NO. 1 C. HEM-FIR NORTH NO. 1
2	BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3	MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE LATEST EDITION.

CONCRETE

1	ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE STANDARD AND MATERIAL SPEFICIATIONS REFERENCED HEREIN.
2	CONCRETE MEMBERS SHALL HAVE THE FOLLWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: A. STRUCTURAL CONCRETE CLASS LOCATION f'c (psi) I FOUNDATIONS 3000 II INTERIOR SLABS ON GRADE AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED 4000 III INTERIOR SLABS ON GRADE AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED 4000 (W/ AIR) IV NOT USED 1500 B. ALL DEFORMED REINFORCING BARS: ASTM A615, GR. 60 C. ALL WELDED WIRE FABRIC: ASTMA1064, DELIVERED IN FLAT SHEETS ALL OTHER CONCRETE TO BE 3000 PSI UNLESS NOTED OTHERWISE
3	ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPEFICIATIONS REFERENCED HEREIN.
4	CONCRETE MIX SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 CHAPTER 3, METHOD 1 OR METHOD 3. CONTRACTOR SHALL SUBMIT BACKUP DATA PER SECTION 26.4 OF ACI 318 LATEST EDITION.
5	ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GR. 60. SUBMIT ALL REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY FABRICATION.
6	CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS REQUIRED BY ACI SPECIFICATIONS.
7	WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST 12 INCHES UNLESS NOTED OTHERWISE.
8	REBAR LAP LENGTH SHALL BE 48 BAR DIAMETERS MINIMUM, UNLESS NOTED OTHERWISE ON DRAWINGS.
9	PROVIDE ACI STANDARD HOOKS UNLESS NOTED OTHERWISE ON DRAWINGS.
10	ALL CONCRETE WORK SHALL CONFORM TO ACI 318 LATEST EDITION "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE STRUCTURES", ACI 301 "SPECIFICATIONS FOR STRUCTRUAL CONCRETE FOR BUILDINGS," ACI 305 "HOT WEATHER CONCRETING," AND ACI 306 "COLD WEATHER CONCRETING."
11	ALL CONCRETE DETAILS SHALL CONFORM TO ACI 315 LATEST EDITION "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE ON THE DRAWINGS.
12	CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF SLEEVES, OPENINGS, EMBEDDED ITEMS, SLAB RECESSES, SLOPES, ETC. THESE ITEMS SHAL BE COORDINATED WITH OTHER TRADES AND INSTALLED PRIOR TO CONCRETE PLACEMENT.
13	CONTRACTOR SHALL VERIFY ANCHOR BOLT SIZES AND LOCATIONS PRIOR TO CONCRETE PLACEMENT.
14	BAR LENGTHS PROVIDED ON DRAWINGS DO NOT INCLUDE HOOK LENGTH. HOOKS SHALL BE PROVIDED AT TOP BARS, AT BEAM ENDS, AND SLAB EDGES.
15	CONTRACTOR SHALL PROVIDE CHAIRS, BOLSTERS, SPACERS, ETC. AS REQUIRED TO SECURELY SUPPORT REINFORCEMENT. SUPPORT ITEMS ON EXPOSED CONCRETE SHALL BE PLASTIC SUPPORT REINFORCEMENT, TIPPED OR STAINLESS STEEL. IN HIGHLY CORROSIVE ENVIRONMENTS, SUPPORT ITEMS SHALL BE PLASTIC.
16	ONE COPY OF ALL CONCRETE TEST RESULTS SHALL BE SUBMITTED BY THE TESTING AGENCY DIRECTLY TO THE ENGINEER OF RECORD.
17	THE CONTRACTOR SHALL SEAL ALL HAIRLINE CRACKING IN CONCRETE SLAB ON GRADE WITH A CRACK SUPPRESSION KIT SUCH AS LATICRETE OR APPROVED EQUAL.
18	A COPY OF THE "FIELD REFERENCE MANUAL" ACI SP-15 LATEST EDITION SHALL BE KEPT BY THE CONTRACTOR ON SITE.
19	FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL.
20	CONCRETE COVER: UNLESS OTHERWISE NOTED, DETAIL REINFORCING TO PROVIDE MINIMUM COVER AS FOLLOWS: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES B. CONCRETE EXPOSED TO EARTH OR WEATHER #5 BARS AND SMALLER 1-1/2 INCHES OTHERS 2 INCHES C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER BEAM AND COLUMN BARS INCLUDING TIES, STIRRUPS AND SPIRALS 1-1/2 INCHES SLABS, WALLS AND JOISTS: #11 BARS AND SMALLER 3/4 INCHES OTHERS 1-1/2 INCHES

MASONRY

	CONCRETE BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402/ACI 530/ASCE 5) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6)
1	MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS: A. HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C-90, GR. N1. MINIMUM COMPRESSIVE STRENGTH = 1900 PSI AT 28 DAYS B. MORTAR: ASTM C-270, TYPE S. MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS C. MORTAR: ASTM C-270, TYPE M. MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS D. GROUT: ASTM C-476. MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS E. MASONRY REINFORCEMENT: ASTM A-82 GALVANIZED F. MASONRY PRISM STRENGTH: F'm = 1500 PSI
2	PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
3	GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 5'-0"
4	LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C-270. FIELD MORTAR SHALL BE TESTED WITH AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C-780. TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DESCRETION OF THE ENGINEER.
5	CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI-FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.
6	NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL IN THEIR PUBLICATION "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY" ARE STRICTLY FOLLOWED.
7	THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

FOUNDATION DESIGN CRITERIA

1	THE FOUNDATION DESIGN OF THE BUILDING WAS BASED ON THE FOLLOWING CRITERIA: A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY: 3500 PSF 1. SOILS REPORT PREPARED BY GFA INTERNATIONAL, INC., DATED MARCH 12, 2021 2. GFA PROJECT NO: 0630.2000069.0000 B. ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED TO 95% MIN. MODIFIED PROCTOR.
2	ALL EXTERIOR FOUNDATIONS SHALL EXTEND TO A MINIMUM OF 30 INCHES DEPTH BELOW FINISH GRADE
3	THE SITE SHALL BE PREAPERED IN ACCORDANCE WITH CIVIL DRAWINGS, SPECIFICATIONS, SOILS REPORT AND THE ALLOWABLE BEARING PRESSURE.
4	ALL EXCAVATIONS AND BUILDING PADS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS.
5	WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.
6	FOOTING ELEVATIONS GIVEN ARE FOR THE PURPOSE OF DESIGN. SOIL BELOW FOOTINGS NOT MEETING DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH OF VERIFIABLE DESIGN PRESSURE AND BACKFILLED PER SOIL REPORT RECOMMENDATIONS TO LEVEL OF FOUNDATION BEARING. THIS SHALL BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.
7	ALL EXCAVATIONS SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES, UTILITIES, PIPING, ETC.
8	PROVIDE AND BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISITING FOUNDATION OR STRUCTURES.
9	BACKFILL AGAINST WALLS SHALL BE PLACED EVENLY EACH SIDE UNLESS SHORING IS PROVIDED BY THE CONTRACTOR. SHORING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL STRUCTURAL ELEMENTS BRACING THE WALL ARE IN PLACE AND HAVE REACHED FULL DESIGN STRENGTH.

LIGHT GAUGE

1	16 GA. AND HEAVIER STUDS SHALL HAVE A MINIMUM YIELD STRESS OF 50,000 PSI. 18 GA. AND LIGHTER STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.
2	STUDS AND TRACKS SHALL BE 12 GA. 6CSX12 MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL. PROVIDE HORIZONTAL BRIDGING AT 4'-0" O.C. TYP.
3	PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS UNLESS OTHERWISE NOTED. WELD STUDS TO EACH OTHER WITH 1 1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.
4	REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

METAL DECK

1	ALL METAL DECK SHALL BE DETAILED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.
2	ALL METAL DECK SHALL BE CONTIUOUS OVER THREE OR MORE SPANS, EXCEPT WHERE STEEL LAYOUT DOES NOT PERMIT.
3	METAL ROOF DECK SHALL BE 20 GAUGE, 1 1/2" DEEP, TYPE B, 36/7 FASTENER LAYOUT WIDE RIB METAL DECK, PAINTED.
4	METAL DECK SHALL BE ATTACHED TO ALL SUPPORTS WITH 5/8" DIA. PUDDLE WELDS AT 12" OC. FIELD AND 6" O.C. AT ALL PERIMETER SUPPORTS. PROVIDE A MINIMUM OF (5) #10 TEK SCREWED SIDE LAP CONNECTIONS PER TRUSS BAYS OR AS SHOWN ON PLANS.

STRUCTURAL STEEL

1	ALL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE STANDARD AND MATERIAL SPEFICIATIONS REFERENCED HEREIN.
2	REFERENCE STANDARDS: A. ANSI/AISC 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION" (AISC) B. AISC 303, "CODE OF STANDARDS PRACTICE FOR STEEL BUILDINGS AND BRIDGES" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION" (AISC) C. "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) D. AWS D1.1, "STRUCTURAL WELDING CODE" BY THE AMERICAN WELDING SOCIETY (AWS)
3	MATERIALS: W AND S SHAPES........................ASTM A992 OR A572, GR. 50 TS/HSS SHAPES..........................ASTM A500, GR. B, Fy = 46 KSI PIPE, TYPE E OR S, GRADE B.....ASTM A502 OR A53 OTHER SHAPES, INCLUDING BUT NOT LIMITED TO, ANGLES, CHANNELS, BEARING, BASE AND CAP PLATES, ETC.....................ASTM A36, Fy = 36 KSI BOLTS (3/4" DIA., TURN OF NUT METHOD UNLESS NOTED OTHERWISE).......ASTM A325 ANCHOR BOLTS................ASTM F1554, GR. 55-S1 WELD ELECTRODE............AWS E70XX COATED TYPE, LOW HYDROGEN CLASSIFICATION
4	DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION.
5	THE CONTRACTOR, FABRICATOR OR ERECTOR SHALL NOTIFY THE ENGINEER OF RECORD AND OWNER'S DESIGNATED CONSTRUCTION REPRESENTATIVE IF CHANGES ARE REQUIRED TO STRUCTURAL STEEL FRAME TO ALLOW ERECTION TO CONFORM TO OSHA REGULATIONS, INCLUDING SUB-PART R. BIDS SHALL BE BASED ON THE ERECTION METHOD CHOSEN BY THE CONTRACTOR OR ERECTOR. BASE BIDS TO INCLUDE THE COST FOR MODIFICATION OF THE STRUCTURAL STEEL, STEEL JOIST, JOIST GIRDERS, STEEL DECK OR LATERAL LOAD RESISTING SYSTEM BASED ON THE CHOSEN METHOD OF ERECTION.
6	CONNECTIONS (WELDED OR HIGH STRENGTH BOLTED): A. NON-COMPOSITE MEMBERS: DESIGN CONNECTIONS FOR FULL STRENGTH OF MEMBER FOR SPAN PER AISC BEAM LOAD TABLES B. COMPOSITE EMEMBERS: SEE COMPOSITE BEAM DETAILS FOR CONNECTION REQUIREMENTS. C. A325SC WITH HARDENED WASHERS: USE FOR ALL MOMENT CONNECTIONS, WIND CONNECTIONS, HANGERS, AND OTHER CONNECTIONS AS NOTED ON DRAWINGS. D. A325N WITH HARDENED WASHERS: USE FOR ALL CONNECTIONS OTHER THAN SLIP CRITICAL CONNECTIONS E. WHEREVER POSSIBLE, USE FRAMED BEAM CONNECTIONS AS LISTED IN TABLES 10-1, 10-2 AND 10-3 OF AISC MANUAL OF STEEL CONSTRUCTION. THE LENGTH OF CONNECTION ANGLES SHALL NOT BE LESS THAN HALF THE "T" DISTANCE OF THE BEAM WEB. F. ONE-SIDED CONNECTIONS WILL NOT BE PERMITTED UNLESS DETAILED ON THE DRAWINGS. G. BOTTOMS OF ALL CONNECTIONS SHALL BE AT LEAST 6" ABOVE FINISHED CEILING. H. ALL SLIP CONNECTIONS SHALL BE PROVIDED WITH A MEANS OF PREVENTING THE NUTS FROM UNTHREADING. I. USE STANDARD HOLES WITH THE FOLLOWING EXCEPTION: OVERSIZE HOLES ARE PERMITTED WHEN BOLTS ARE LOADED IN TENSION; SHORT SLOTTED HOLES ARE PERMITTED FOR SHEAR LOADING PERPENDICULAR TO THE SLOT. J. WHERE REACTIONS ARE NOTED, DEVELOP SAME.
7	PAINTING: A. PROVIDE ONE SHOP COAT AND ONE FIELD COAT OF RUST-INHIBITIVE PAINT. SEE SPECIFICATIONS FOR MORE INFORMATION. B. DO NOT PAINT BEAMS THAT ARE ENCASED IN CONCRETE OR TO RECEIVE SPRAY-ON FIRE PROOFING. C. OMIT PAINT AT SLIP CRITICAL CONNECTIONS AND AREAS TO BE WELDED.
8	SHOP DRAWINGS ARE REQUIRED AND SHALL NOTE TYPE OF ELECTRODES, SIZE OF ALL WELDS, AND TYPE AND SIEZE OF ALL BOLTS. SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER. ALL WELDING AND HIGH STRENGTH BOLTING MUST BE INSPECTED BY A QUALIFIED TESTING LABORATORY. LABORATORY SHALL BE APPROVED BY THE ARCHITECT AND/OR ENGINEER OF RECORD. ALL WELDING SHALL CONFORM TO THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AWS AND BE PERFORMED BY A RECENTLY CERTIFIED WELDER IN ACCORDANCE WITH AWS STANDARDS. SEQUENCE OF PLACING WELDS SHALL BE SUCH AS TO AVOID DISTORTION OF MEMBERS. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIEZE WELDS SPECIFIED IN AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. NO WELDING OR FINAL BOLTING SHALL BE DONE UNTIL STRUCTURE HAS BEEN PROPERLY ALIGNED. BEAMS BEARING ON MASONRY SHALL HAVE WALL ANCHORS AS SHOWN IN THE ASIC MANUAL, EXCEPT ANGLES SHALL BE WELDED TO THE BEAMS.
9	MISCELLANEOUS A. PROVIDE AND INSTALL FRAMING AROUND ROOF OPENINGS REQUIRED FOR ALL TRADES. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL. B. ANY FRAMING SHOWN ON THE DRAWINGS THAT SUPPORT EQUIPMENT (WHETHER SUPPORTS ABOVE OR SUSPENDED BELOW), DESIGN LOADS, OPENINGS AND PENETRATIONS, AND STRUCTURAL MEMBERS IN ANY MANNER RELATE TO HVAC, PLUMBING, ELECTRICAL, OR FIRE PROTECTION REQUIREMENTS IS BASED ON EQUIPMENT DESIGNED, SHOWN AND/OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS. ALL REQUIRED FRAMING MAY NOT BE SHOWN. USING THE DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS, THE GENERAL CONTRACTOR AND SUB-CONTRACTORS AND/OR EACH PRIME CONTRACTOR MUST COORDINATE AND INSTALL THE ACTUAL FRAMING REQUIRED FOR THE EQUIPMENT TO BE INSTALLED, AND INCLUDES COST FOR ALL REQUIRED FRAMING IN THE BID. C. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
10	ATTACHMENT OF ALL MECHANICAL EQUIPMENT TO THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO HVAC ROOFTOP UNITS, ROOFTOP CURBS, ETC. ARE TO BE SPECIFIED BY THE MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR.

LIST OF STRUCTURAL ABBREVIATIONS

(ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

#	NUMBER
&	AND
@	AT
A.B.	ANCHOR BOLTS
A.C.I.	AMERINCAN CONCRETE INSTITUTE
A.I.S.C.	AMERICAN INSTITUTE OF STL. CONSTRUCTION
A.I.S.I.	AMERICAN IRON AND STEEL INSTITUTE
A.W.S.	AMERICAN WELDING SOCIETY
ALT.	ALTERNATIVE
ALUM.	ALUMINUM
ARCH.	ARCHITECTURAL
ANCH.	ANCHOR
APPROX.	APPROXIMATELY
B1 (1, 2,...)	BEAM SCHEDULE MARK
BETW/	BETWEEN
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BS	BOTH SIDES
BTJ	BOLTED TIE JOIST
BRK	BRICK
BRDG	BRIDGING
BP	BASE PLATE
C, SC	STEEL COLUMN
CF	CUBIC FEET
C.I.P.	CAST IN PLACE
C.L.	CENTERLINE
CMU	CONCRETE MASONRY UNIT
CY	CUBIC YARDS
C1 (1, 2,...)	STEEL COLUMN SCHEDULE MARK
CB1 (1, 2,...)	CONCRETE BEAM SCHEDULE MARK
CC1 (1, 2,...)	CONCRETE COLUMN SCHEDULE MARK
CJ	CONSTRUCTION OR CONTROL JOINT
CLR	CLEAR
COL	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CEIL	CEILING
CANT.	CANTILEVER
CHAN.	CHANNEL
COMPR.	COMPRESSION
CORRD.	COORDINATE
CTR	CENTER
CTR'D	CENTERED
DEPT.	DEPARTMENT
DIA	DIAMETER
DIM.	DIMENSION
DIST.	DISTANCE
DN.	DOWN
DR.	DRAIN
DTL	DETAIL
DWG	DRAWING
DT	DOUBLE TEE
DWL	DOWEL
E.F.	EACH FACE
E.W.	EACH WAY
EA	EACH
E.J.	EXPANSION JOINT
E.E.	EACH END
EL./ELEV.	ELEVATION
ELEC.	ELECTRICAL
ENGR.	ENGINEER
EOA	END OF ANGLE
EOJ	END OF JOIST
EQ	EQUAL
EQUIV	EQUIVALENT
EQ. SP.	EQUAL SPACING
EXP	EXPANSION
EXIST.	EXISTING
EXT.	EXTERIOR
EMBED	EMBEDMENT
EOP	EDGE OF PIT
E.S.	EACH SIDE
F.D.	FLOOR DRAIN
F1 (1, 2,...)	FOOTING SCHEDULE MARK
FIN. FLR.	FINISHED FLOOR
FIN. GR.	FINISHED GRADE
FLR.	FLOOR
FDN	FOUNDATION
FRMG	FRAMING
F.S.	FAR SIDE
FT.	FEET
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GEN.	GENERAL
GR.	GRADE
GRTG.	GRATING
HOR/HORIZ.	HORIZONTAL
HT.	HEIGHT
H.S.	HEADED STUD
HGR.	HANGER
HI	HIGH
HK	HOOK
HPT	HORIZONTAL POINT
HR	HANDRAIL
HSA	HEADED STUD ANCHOR
I.D.	INSIDE DIAMETER
IN.	INCH(ES)
INT.	INTERIOR
I.T.	INVERTED TEE
JST.	JOIST
JT	JOINT
K	KIP
KB	KNEE BRACE

L	STEEL ANGLE
LGTH	LENGTH
LT. GA.	LIGHT GAUGE
LB	LEDGER BEAM OR LINTEL BEAM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LO	LOW
LSL	LONG SLOTTED HOLES
LT WT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER (1.9E)
LW	LONG WAY
MAT.	MATERIAL
MAX	MAXIMUM
MB1 (1, 2,...)	MASONRY BEAM SCHEDULE MARK
MC1 (1, 2,...)	MASONRY COLUMNSCHEDULE MARK
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MCJ	MASONRY CONTROL JOINT
M.O.	MASONRY OPENING
MEZZ	MEZZANINE
MS	METAL STUD
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
NTS	NOT TO SCALE
NS	NEAR SIDE
NS/FS	NEAR SIDE AND FAR SIDE
NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
NO.	NUMBER
N.WT.	NORMAL WEIGHT
NSG	NON-SHRINK GROUT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPG.	OPENING
OPP	OPPOSITE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER (2.0E)
P.T.	PRESSURE TREATED
P.C.	PRECAST (CONCRETE)
PAR.	PARALLEL
PL	PLATE
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PLUMB	PLUMBING
PAF	POWDER ACTUATED FASTENER
PROP.	PROPERTY
PROP. L.	PROPERTY LINE
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCEMENT
REQ'D.	REQUIRED
RF.	ROOF
R	RISER
RAD	RADIUS
RTN	RETURN
RW	RETAINING WALL
S.F.	SQUARE FEET
SS	STAINLESS STEEL
SECT.	SECTION
SCH.	SCHEDULE
SPC	STANDARD PIPE COLUMN
SPECS	SPECIFICATIONS
STD	STANDARD
STL	STEEL
STRUCT.	STRUCTURAL
SYM	SYMMETRICAL
S.E.	SLAB EDGE
SHRW	SHEAR WALL
SHT.	SHEET
SIM.	SIMILAR
SJ	SAWCUT CONTROL JOINT
SJI	STEEL JOIST INSTITUTE
SL	SLOPE
SOG	SLAB ON GRADE
SPA	SPACE
SQ.	SQUARE
STIR	STIRRUP
STR	STRENGTH
SW	SHORT WAY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/	TOP OF
T/BM	TOP OF BEAM
T/CB	TOP OF CONCRETE BEAM
T/FTG.	TOP OF FOOTING
T/SLAB	TOP OF SLAB
T/STL	TOP OF STEEL
T/TB	TOP OF TIE BEAM
TB1 (1, 2,...)	CONC. TIE BEAM SCHEDULE MARK
TDS1 (1, 2,...)	TURNDOWN SLAB SCHEDULE MARK
THK	THICK
TS	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.P.	WORKING POINT
W/	WITH
W/O	WITHOUT
WD.	WOOD
WF1 (1, 2,...)	WALL FOOTING SCHEDULE MARK
WWF	WELDED WIRE FABRIC
XSPC	EXTRA STRONG PIPE COLUMN
XXSPC	DOUBLE EXTRA STRONG PIPE COLUMN
YD.	YARD
YP	YIELD POINT

SPECIAL INSPECTIONS

ITEM	SECTION
INSPECTION OF FABRICATORS	
• VERIFY FABRICATION/QUALITY CONTROL PROCEDURES	1704.2
STEEL CONSTRUCTION	
• FIELD WELDING	1705.2
• DETAILS	1705.2
• HIGH-STRENGTH BOLTS	1705.2
CONCRETE CONSTRUCTION	
• REINFORCING STEEL INSTALLATION	TABLE 1705.3
• CAST-IN-PLACE ANCHOR BOLTS	TABLE 1705.3
• VERIFY DESIGN MIX	TABLE 1705.3
• FRESH CONCRETE SAMPLING	TABLE 1705.3
• CONCRETE PLACEMENT	TABLE 1705.3
• CONCRETE CURING OPERATIONS	TABLE 1705.3
• EVALUATION OF CONCRETE STRENGTH	TABLE 1705.3
MASONRY CONSTRUCTION	
• VERIFY PROPORTIONS OF SITE PREPARED MORTAR AND GROUT	1705.4
• VERIFY CONSTRUCTION OF MARTAR JOINTS	1705.4
• VERIFY LOCATION OF REINFORCEMENT AND CONNECTORS	1705.4
• VERIFY SIZE AND LOCATION OF STRUCTURAL MASONRY ELEMENTS	1705.4
• VERIFY TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	1705.4
• VERIFY SIZE, GRADE, AND TYPE OF REINFORCEMENT	1705.4
• VERIFY PROTECTION OF MASONRY DURING HOT/COLD WEATHER	1705.4
• VERIFY GROUT SPACE IS CLEAN PRIOR TO GROUTING	1705.4
• VERIFY GROUT PLACEMENT COMPLIES WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	1705.4
• OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	1705.4
SOILS	
• VERIFY MATERIALS BELOW ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	TABLE 1705.6
• VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	TABLE 1705.6
• PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	TABLE 1705.6
• VERIFY SITE PREPARATION WITH SOILS REPORT	TABLE 1705.6
• VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPATION OF CONTROLLED FILL	TABLE 1705.6
COLD -FORMED STEEL FRAMING	
• PERIODIC INSPECTION DURING WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM	1705.12.3
• PERIODIC INSPECTIONS FOR SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM	1705.12.3

REQUIRED SPECIAL INSPECTIONS NOTES:

1. REFER TO PROJECT SPECIFICATION FOR ADDITIONAL QUIALITY CONTROL/QUALITY ASSURANCE REQUIREMENTS.
2. GENERAL CONTRACTOR SHALL COORDINATE ANY ADDITIONAL SPECIAL INSPECTION REQURIEMENTS WITH OWNER AND APPLICABLE BUILDING AUTHORITIES.

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TBD
Architect No. AA00000
Engineering No. E00000
Landscape No. L00000
Survey No. S00000

Engineer of Record

TBD

TBD

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GENERAL NOTES

MOUNT DORA LINCOLN PARK PHASE II

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.

S-0.10

GENERAL NOTES:

- INTERIOR FOOTINGS HEREIN ARE RELATIVE TO FINISHED FLOOR ELEVATION OF 100'-0". THE TOP OF ALL INTERIOR FOOTINGS SHALL BE THUS: 98'-0", TYP. U.O.N.

- EXTERIOR FOOTINGS HEREIN ARE RELATIVE TO FINISHED FLOOR ELEVATION OF 100'-0". THE TOP OF ALL EXTERIOR FOOTINGS SHALL BE THUS: 98'-0", TYP. U.O.N.

- REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND CONSTRUCTION OF NON-LOAD BEARING MTL. STUD WALLS, FIXTURES, AND OTHER ITEMS NOT PRESENTED HEREIN.

- 4" CONCRETE SLAB W/ 3000 PSI CONC. W/ 6X6XW2.1XW2.1 W.W.F. OVER 10 MIL. MIN. VAPOR RETARDER ON TERMITE TREATED COMPACTED SOIL, TYP. U.O.N.

- C.J. = CONTROL JOINT/CONSTRUCTION JOINT, TO BE COORDINATED (REF. SUBMITTAL SECTION OF GENERAL NOTES). CONTROL JOINTS SHALL BE 1" DEEP SAW CUTS TO BE MADE WITHIN 24 HRS. OF POUR.

- REF. ARCH./PLUMBING DRAWINGS FOR DRAIN SLOPES, ELEVATIONS AND SLAB RECESSES.

- CONTROL JOINTS (C.J.) SHALL BE LOCATED AT 12'-0" O.C. MAX. U.O.N. WITH LENGTH TO WIDTH RATIO NOT TO EXCEED 1.5:1

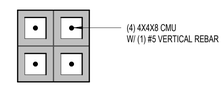
- OPENING/RE-ENTRANT CORNER, TYP. PROVIDE (2) #4 X 4'-0" LONG BARS @ MID-HEIGHT OF SLAB.

- DIAGONAL OR K-BRACE MEMBER "UP"

- DIAGONAL OR K-BRACE MEMBER "DOWN"

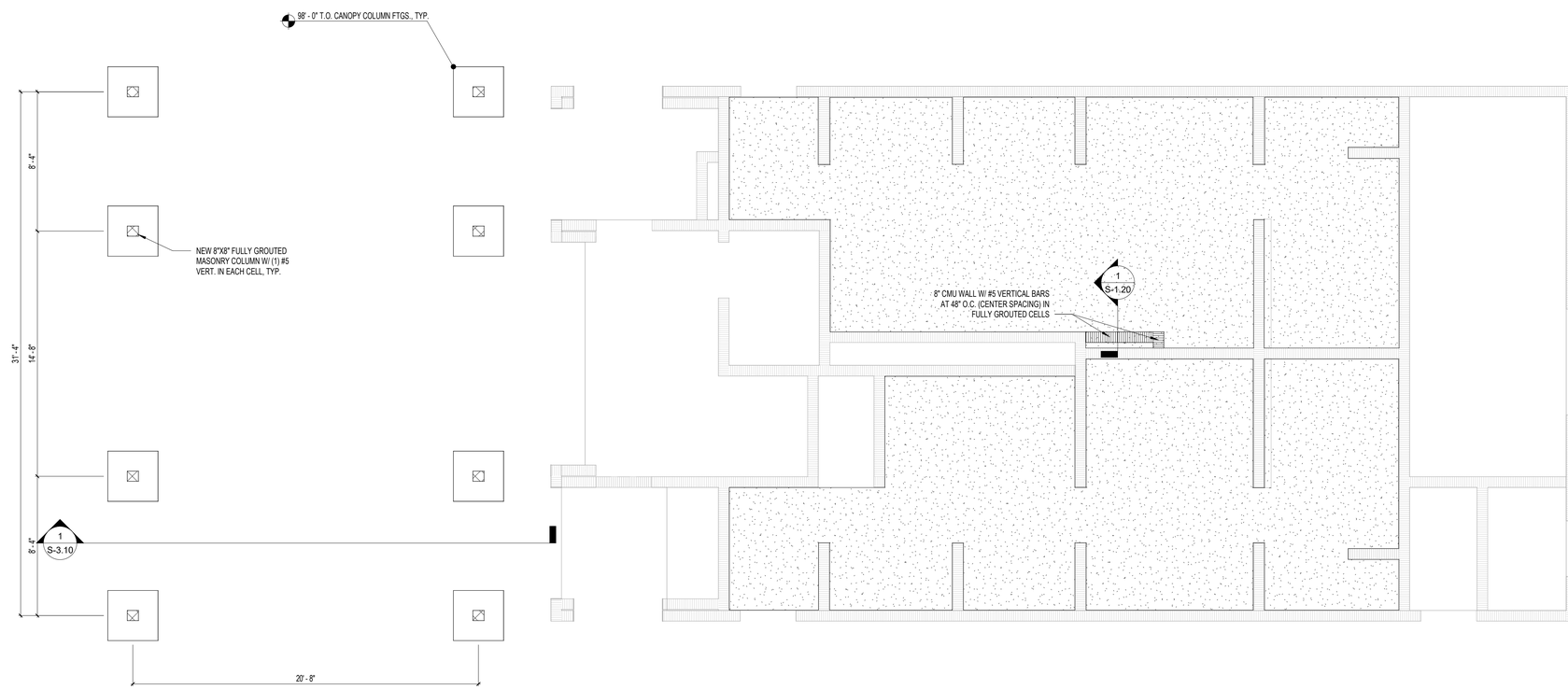
STRUCTURAL FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	FOUNDATION THICKNESS	TOP REINF.	BOTTOM REINF.
F3	3' - 0"	3' - 0"	1' - 0"	(3) #5 X 2'-6" E.W.	(3) #5 X 2'-6" E.W.



2 COLUMN SECTION

1 1/2" = 1'-0"



1 FOUNDATION PLAN

1/4" = 1'-0"

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TBD
Architect No. AA00000
Engineering No. E00000
Landscape No. L00000
Survey No. S00000
Engineer of Record
TBD
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FOUNDATION PLAN - OVERALL

MOUNT DORA LINCOLN PARK PHASE II

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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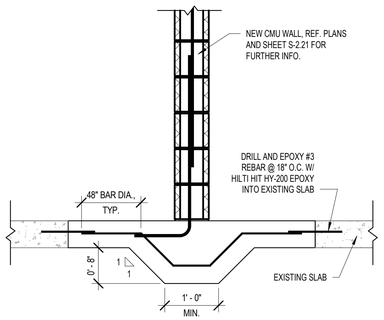
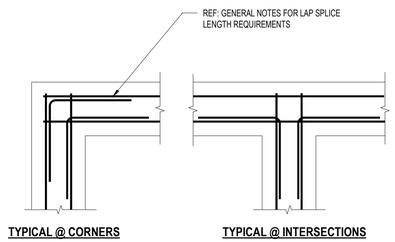
Sheet No.
S-1.10



1 Interior Wall Foundation Detail

3/4" = 1'-0"



2 Continuity Corner, Typ.

3/4" = 1'-0"

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TBD
Architect No. AA00000
Engineering No. E00000
Landscape No. L00000
Survey No. S00000

Engineer of Record

TBD

TBD

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FOOTING SECTIONS AND DETAILS

MOUNT DORA LINCOLN PARK PHASE II

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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Sheet No.

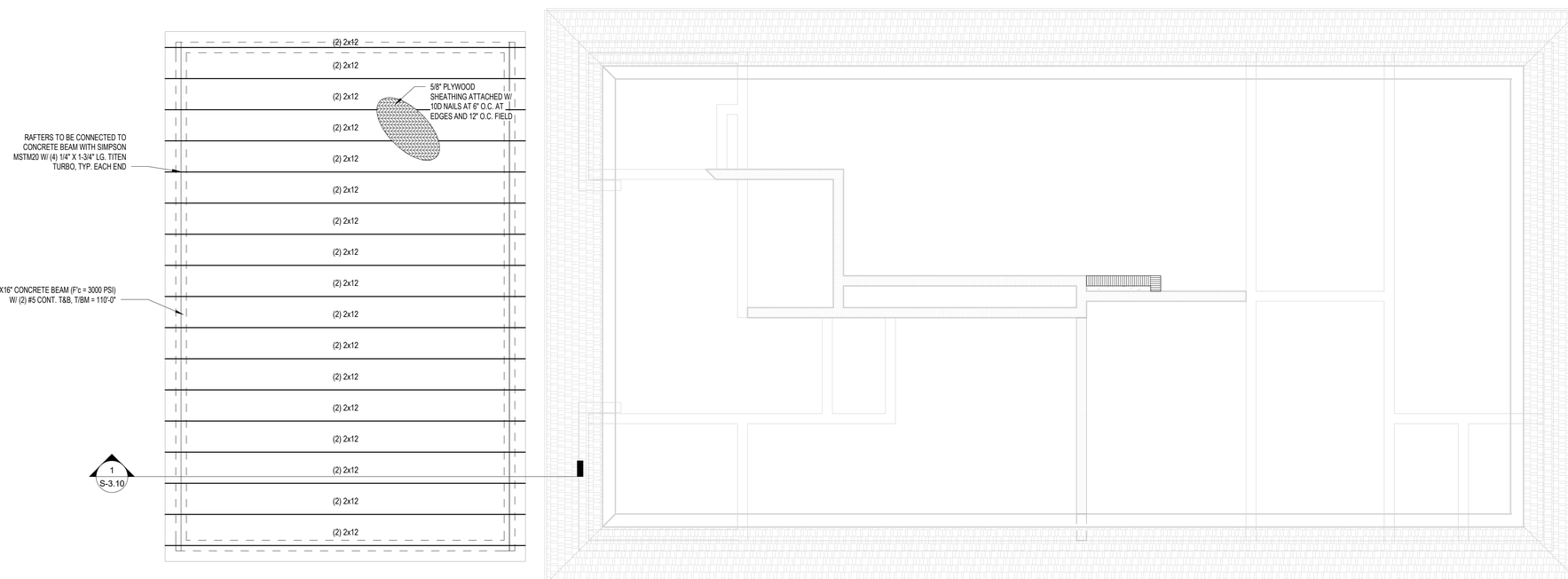
S-1.20

GENERAL NOTES:

- ALL LOADS GIVEN ARE ASD
- JST. ENGINEER TO DESIGN FOR ADDITIONAL LOADS (INCLUDING RTU'S) PRESENTED HEREIN AT K & LH-SERIES JST.
- SPECIAL LOADING TAKEN INTO ACCOUNT IN KCS JOIST SELECTION
- REFERENCE SECTIONS / DETAILS AS REQUIRED FOR ADDED JOIST BRACING AND ADDITIONAL LOADING
- POSITION ALL RTUS ON SPECIAL JST. AS SHOWN, BTW. BRIDGING & BRACING FOR REQ'D CLEARANCES
- JOIST SUPPLIER TO PROVIDE MIN. STD. BRIDGING AND BRACING PER SJI.
- C = CAMBER IN INCHES
- DIAGONAL OR K-BRACE MEMBER "UP"
- DIAGONAL OR K-BRACE MEMBER "DOWN"
- MOMENT CONNECTION
- P = ADDITIONAL AXIAL LOAD (+/-)

METAL DECK INFORMATION:

- 1 1/2" DEEP 22-GAGE (WR) PAINTED DECK.
- FASTEN USING (7) 5/8" PUDDLE WELDS @ EACH SUPPORT PER 36" WIDTH [36/7]. (4) #10 TEK SCREWS @ MIDSPAN OF SIDELAPS, AND 5/8" PUDDLE WELDS @ 6" O.C. ALONG EDGES



1 FRAMING PLAN

1/4" = 1'-0"

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FRAMING PLAN - OVERALL

MOUNT DORA LINCOLN PARK PHASE II

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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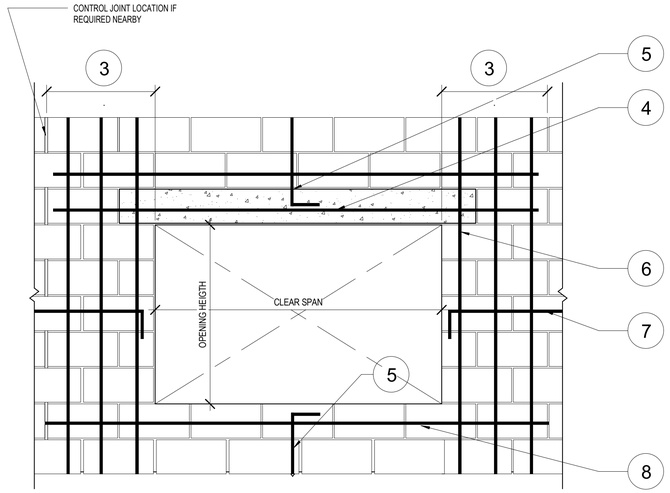
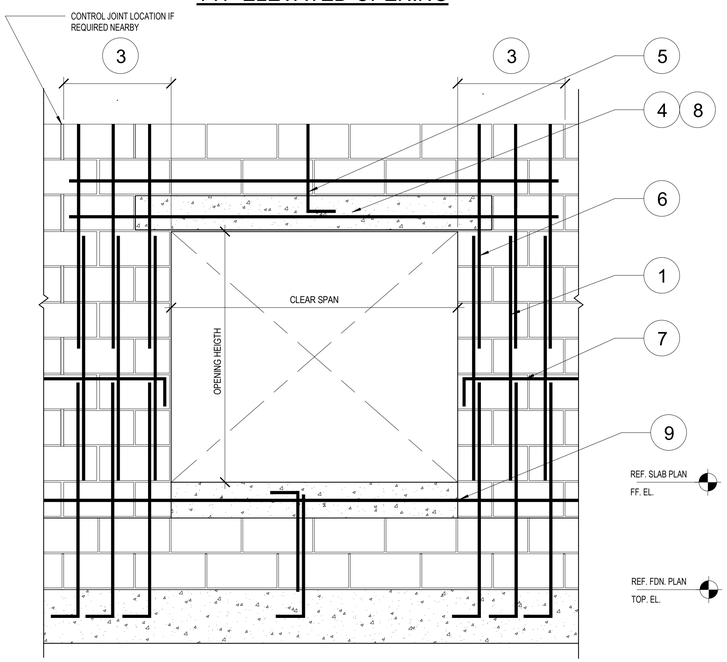
Sheet No.
S-2.10



TYP ELEVATED OPENING



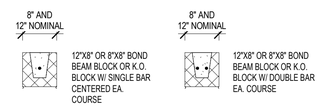
TYPICAL MASONRY WALL OPENING DIAGRAM AND SCHEDULE

MASONRY OPENING, U.O.N.

NOTES:

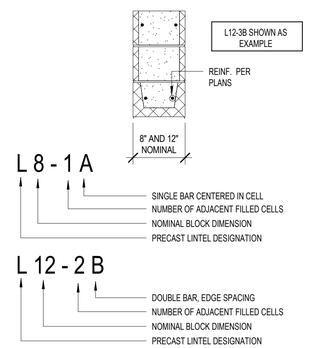
1. SPLICES IN VERT. REINF., REF: CMU WALL REINF. DIAGRAM
2. BOND BEAM, REF: CMU WALL REINF. DIAGRAM
3. *EXTEND GROUTED LINTEL AND REINF. THROUGH ALL FULL JAMB WIDTHS
4. USE CAST-CRETE PRECAST LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENINGS, 8" BRG EA. END
5. VERT. WALL REINF. PER REQUIRED SPACING WITH STANDARD ACI 90 DEGREE HOOK
6. ALL VERT. BARS AT DOOR JAMBS TO BE FULL HEIGHT
7. WHERE HORIZONTAL REINF. IS TERMINATED BY OPENING OR CONTROL JOINT PROVIDE STANDARD ACI HOOK WITH VERT. WALL REINF. IN THE END CELL
8. MIN. (1) #5 AT 8" CMU, (2)#5 AT 12" CMU, BOTTOM OF THE OPENING ABOVE GRADE UP TO 8'-0" CLEAR SPAN
9. UNLESS OTHERWISE NOTED, (1) #5 CONTINUOUS IN K.O. COURSE AT FF. EL.

* FOR SEISMIC DESIGN CATEGORY "C", EXTEND GROUTED LINTEL AND REINF. 24" MIN. AT ALL OPENINGS ABOVE AND BELOW.

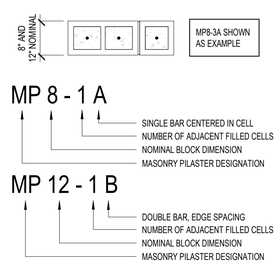


ALL REINFORCING SPLICES SHALL BE MADE ABOVE OR BELOW HORIZONTAL REINFORCING, NOT AT SIDES.

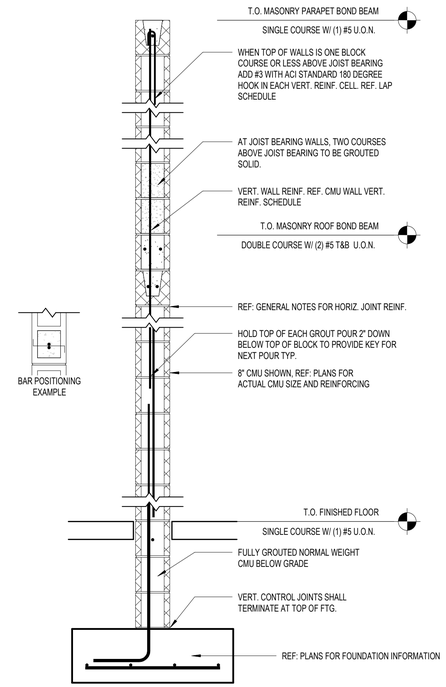
MASONRY BOND BEAM



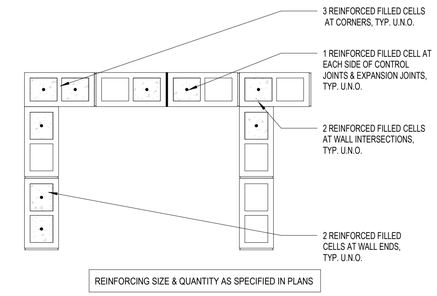
LINTELS



MASONRY PILASTER DESIGNATION

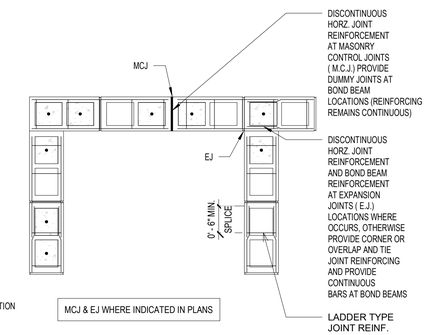


CMU WALL REINFORCEMENT DIAGRAM



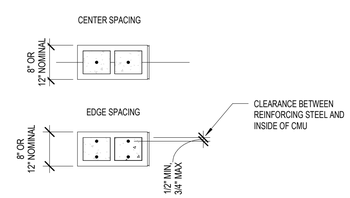
REINFORCING SIZE & QUANTITY AS SPECIFIED IN PLANS

MASONRY VERTICAL REINF. DETAIL



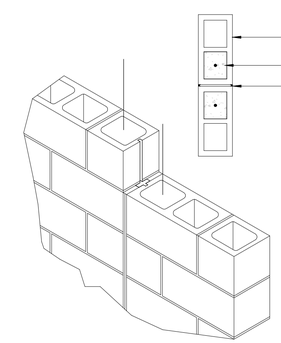
MCJ & EJ WHERE INDICATED IN PLANS

MASONRY HORIZONTAL REINF. DETAIL



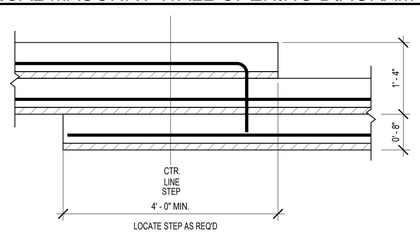
ALL REINFORCING SPLICES SHALL BE MADE ADJACENT (AT SIDES) OF VERTICAL REINFORCING, NOT IN FRONT OR BEHIND.

MASONRY VERT. REINF. PLACEMENT

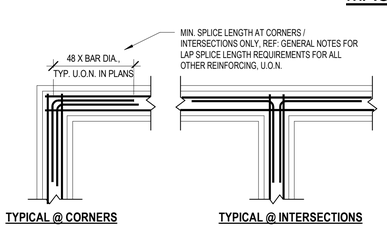


UNLESS OTHERWISE NOTED, MASONRY CONTROL JOINTS SHALL BE LOCATED TO THE LESSER OF WALL LENGTH TO HEIGHT RATIO OF 1.5 OR 25 FEET MAXIMUM SPACING AND WALL INTERSECTIONS. MASONRY CONTROL JOINTS SHALL NOT BE LOCATED DIRECTLY ABOVE OPENINGS, WITHIN OPENING JAMBS, OR WITHIN MASONRY PILASTERS.

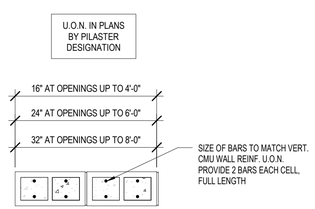
MASONRY CONTROL JOINT



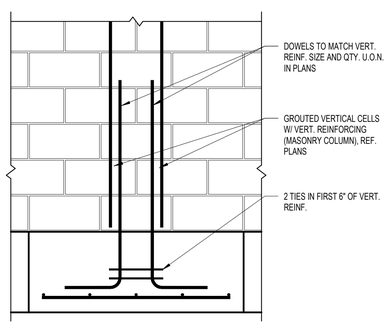
STEPPED BOND BEAM



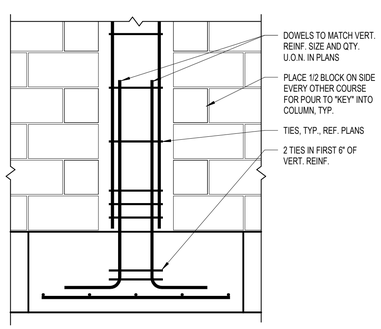
CONTINUITY CORNER, TYP.



JAMBS



MASONRY WALL PILASTER



CONCRETE WALL COLUMN

1 General Lintel & CMU Information

3/4" = 1'-0"

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Plans Prepared By :
CPH, Inc.
TBD
Architect No. AA00000
Engineering No. E00000
Landscape No. L00000
Survey No. S00000
Engineer of Record
TBD
TBD

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	JMP
Drawn:	JMP
Checked:	JMO
Job No.:	M7030.1
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GENERAL LINTEL AND CMU INFORMATION

MOUNT DORA LINCOLN PARK PHASE II

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
S-2.21

1 TYPICAL CANOPY SECTION

1/2" = 1'-0"

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WALL ELEVATIONS

MOUNT DORA LINCOLN PARK PHASE II

1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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Sheet No.
S-3.10

ELECTRICAL GENERAL NOTES:

A. IN ADDITION TO SURFACE RACEWAY AND/OR FLOOR MOUNTED OUTLET BOXES AND POWER POLES INDICATED ON ELECTRICAL DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CABLE TRAY AND FLUSH MOUNTED OUTLET BOXES/BACK BOXES AND ASSOCIATED CONDUIT FOR ALL TELECOMMUNICATIONS OUTLETS (INCLUDING PA/MASTER CLOCK/SOUND SYSTEMS, CATV/VIDEO SYSTEMS, AND SECURITY SYSTEMS) ON THIS PROJECT. THE CONTRACTOR SHALL REFERENCE THE TELECOMMUNICATIONS AND SECURITY DRAWINGS ("T" AND "S" DRAWINGS) FOR CABLE TRAY AND OUTLET/DEVICE LOCATIONS, AND ALL INSTALLATION DETAILS SHOWN ON THE "T" AND "S" DRAWINGS. THE CONTRACTOR SHALL ALSO REFERENCE THE TELECOMMUNICATIONS DRAWINGS FOR EMBEDDED CONDUIT REQUIRED FOR IN-FLOOR BOXES THAT ARE SHOWN ON THE "T" DRAWINGS, AND THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE EMBEDDED CONDUITS AS SHOWN ON THE "T" DRAWINGS.

B. THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE TELECOMMUNICATIONS" DRAWINGS FOR ANY UNDERGROUND SITE WORK, AND THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UNDERGROUND CONDUITS, DUCTBANKS, HANDHOLES, MANHOLES, AND UNDERGROUND PENETRATIONS AS SHOWN ON THE "T" DRAWINGS. CONTRACTOR SHALL PROVIDE ALL EXCAVATION, BACKFILLING AND SURFACE RESTORATION REQUIRED FOR THE SITE WORK.

C. THE FOLLOWING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FOR PROJECTS WHERE THE TELECOM CONTRACT IS UNDER ELECTRICAL. WHERE THE TELECOM AND ELECTRICAL CONTRACTS ARE SEPARATE THE FOLLOWING WILL BE PROVIDED BY THE TELECOMMUNICATIONS CONTRACTOR: TELECOMMUNICATIONS STRUCTURED CABLING SYSTEMS, TELECOMMUNICATIONS OUTLET DEVICES/FACEPLATES/JACKS, DATA NETWORK SYSTEMS PBX/TELEPHONE SYSTEMS, CONDUIT SLEEVES, PENETRATIONS FOR CONDUIT SLEEVES, FIRESTOPPING, CABLE RUNWAY (IN IDF'S AND MDF'S), AND PLYWOOD BACKBOARDS.

D. COORDINATE LUMINAIRE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

E. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
a. ALL FIRE RATED PARTITIONS AND BUILDING EXPANSION JOINTS.
b. MOUNTING HEIGHTS OF EQUIPMENT

F. REFER TO THE HVAC DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
a. MECHANICAL EQUIPMENT, CONTROL PANELS AND MOTORS.
b. AUTOMATIC TEMPERATURE CONTROL SYSTEM PANELS AND DEVICES.
c. DUCT MOUNTED SMOKE DETECTORS.
d. MOTORIZED DAMPERS AND CONTROL VALVES.

G. REFER TO THE PLUMBING DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
a. ELECTRIC WATER HEATERS.

H. REFER TO THE FIRE PROTECTION/SPRINKLER DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
a. WATER FLOW AND TAMPER SWITCHES.
b. PRE-ACTION AND/OR DELUGE SYSTEM CONTROL PANELS.

I. REFER TO THE APPROPRIATE VENDORS APPROVED DIMENSIONED LAYOUT DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
a. CONDUIT CONNECTIONS TO FURNITURE AND PREFABRICATED MILLWORK.
b. ELEVATOR AND ESCALATOR RELATED POWER, LIGHTING AND EMPTY CONDUIT PROVISIONS.
c. POWER AND CONTROL WIRING FOR ELECTRICALLY OPERATED DOORS.

J. CONTRACTOR SHALL COORDINATE WITH SITE SPECIFIC LOCAL REQUIREMENTS FOR SEISMIC BRACING OF ELECTRICAL EQUIPMENT AND CONDUITS.

K. CONTRACTOR SHALL COORDINATE SITE SPECIFIC CIVIL REQUIREMENTS FOR ANY CIVIL SPECIFIED EQUIPMENT THAT MAY REQUIRE ELECTRICAL POWER, (I.E. PUMPS, LIFT STATIONS, ETC.)

L. REFER TO 1/E0.00 FOR BUILDING EXPANSION JOINT LOCATION.

M. PROVIDE LIGHTING PROTECTION SYSTEM. REFER TO WAREHOUSE OWNER DESIGN CRITERIA FOR MORE INFORMATION.

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SURVEY THE SITE BEFORE COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL CALL "**811 SUNSHINE**" TO MARK ALL UTILITY LINES ON THE SITE.
3. COORDINATE WITH CUSTOMER AND AHJ ALL THE SCOPE OF CONSTRUCTION BEFORE COMMENCEMENT OF WORK
4. ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED IN THE SPECIFICATIONS.
5. THE DRAWINGS ARE DIAGRAMMATIC AND THE OMISSION OF AN ITEM NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THAT ITEM.
6. NOTIFY ARCHITECT/ ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENING.
7. PRIOR TO BID, COORDINATE ALL ELECTRICAL WORK WITH EXISTING BUILDING AND OTHER TRADES. SEE SPECIFICATIONS FOR REQUIREMENTS.
8. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER. CONTRACTOR SHALL NOTIFY A/E OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS. CONTRACTORS SHALL NOT CONCEAL WORK UNTIL APPROVED.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR ON REQUIREMENTS FOR STRUCTURAL SUPPORT AND FRAMING FOR ALL ELECTRICAL EQUIPMENT AND SYSTEMS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND VERIFYING STRUCTURAL SUPPORT AND FRAMING.
10. THE SIZE, LOCATION, WEIGHT, AND WORKING CLEARANCES PER NEC ARTICLE 110 FOR EQUIPMENT INSTALLED UNDER DIVISION 16 ELECTRICAL SHALL BE COORDINATED WITH ALL OTHER TRADES.
11. WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATION OF DUCTS, CONDUIT AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION OF THE WORK.
12. SURGE PROTECTION SHALL BE PROVIDED ON ALL LIGHTING CABLES ENTERING/ EXITING BUILDINGS THAT CONNECT TO ELECTRICAL EQUIPMENT.
13. INSTALL SURGE SUPPRESSOR IN EACH PANEL WITH EQUIPMENT SHOWN ON THE PANEL SCHEDULE AS SURGE, SPD, OR TVSS.
14. ALL SITE EXCAVATION OR TRENCHING SHALL BE DONE BY HAND. ALL CONDUITS SHALL HAVE A MINIMUM BURIAL DEPTH OF 24".
15. ELECTRICAL CONTRACTOR IS TO PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT AND RACEWAYS WITH LABELING TAGS AT EACH END.
16. ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND BE GROUNDED WHERE RACEWAY IS METAL.
17. ALL WALL OUTLETS AND FLOOR OUTLETS SHALL HAVE A 3/4" MINIMUM CONDUIT CONTINUOUS TO PANEL OF BRANCH CIRCUIT.
18. ALL NEW PANELS SHALL BE BONDED TO THE BUILDING'S GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC ARTICLE 250-58.
19. ALL BARE METAL SURFACES SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST, INCLUDING BUT NOT LIMITED TO ANGLE FRAMING, EQUIPMENT SUPPORTS, MOUNTING HARDWARE, ETC.
20. NO SPLICES SHALL BE PERMITTED IN UNDERGROUND/FLUSH IN-GRADE PULL BOXES WITHOUT PRIOR WRITTEN APPROVAL BY OWNER
21. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.
22. ALL EQUIPMENT SHALL HAVE A MEANS OF DISCONNECT AS REQUIRED BY NEC.
23. ALL RACEWAYS SHALL HAVE A GREEN GROUNDING CONDUCTOR.
24. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, PROVIDE FIRE STOPPING AROUND THE OPENING OF THE RACEWAY PER THE STATE BUILDING CODE. MAINTAIN COORDINATION WITH THE GENERAL CONTRACTOR TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED.
25. EC SHALL FURNISH AND INSTALL EXPANSION JOINTS AT ALL LOCATIONS WHERE BUILDING EXPANSION JOINTS ARE USED.
26. ALL METAL SURFACES SHALL BE GROUNDED.

ELECTRICAL SCOPE OF WORK:

1. THE EXISTING BUILDING FUNCTION WILL BE A WAREHOUSE WITH SOME OFFICES AND TRAINING ROOM
2. THE ELECTRICAL GEAR AND EQUIPMENT IN MAIN ELECTRICAL ROOM EAST SHALL BE DISCONNECTED AND DEMOLISHED, NEW GEAR AND PANELS SHALL BE INSTALLED INCLUDING NEW MTS AND GENERATOR DOCKING STATION ON THE OUTSIDE. THE ROOM SPACE WILL BE RECONFIGURED
3. CIRCUITS ON EXISTING EQUIPMENT IN ELECTRICAL ROOM CENTER SHALL BE ALL REMOVED TO THE PANELS, PANELS SHALL BE ABANDONED IN PLACE, AND AFTER CONTRACTOR SURVEY REUSE SOME AS AND IF NEEDED
4. EXISTING ELECTRICAL ROOM WEST AND SERVICE SHALL REMAIN IN PLACE, EXISTING BACKUP GENERATOR SHALL REMAIN IN PLACE WITH THE EXISTING GEAR. AFTER CONTRACTOR SURVEY ALL TO REMAIN LOADS SHALL REMAIN FED FORM EXISTING PANELS, ALL OTHER PANEL FEEDERS SHALL BE REMOVED BACK TO THE PANEL. PANEL SHALL BE ABANDONED IN PLACE.
5. ALL EXISTING LIGHTING TO BE REMOVED, NEW TO BE INSTALLED.
6. EXISTING FIRE ALARM AND DIESEL FIRE PUMP TO REMAIN AND BE USED THROUGHOUT CONSTRUCTION

SYMBOL GENERAL NOTES:

1. WHERE DEVICE HEIGHT OF 46" OCCURS AT POINT OF CHANGE OF FINISH, THE DEVICE SHALL BE LOWERED TO OCCUR IN ONE FINISH.

2. WHERE DEVICES OCCUR IN BRICK, TILE, OR BLOCK WALLS, THEY SHALL BE MOUNTED AT A VERTICAL MASONRY JOINT AND IN EITHER TOP OR BOTTOM HORIZONTAL JOINT, MAXIMUM MOUNTING HEIGHT OF 46" AFF.

3. UNLESS OTHERWISE NOTED, ALL MOUNTING HEIGHT DIMENSIONS LISTED ARE TO THE CENTER LINE OF THE WALL BOX OR DEVICE.

4. EXISTING EQUIPMENT SHOWN DASHED.

5. SOME LEGEND SYMBOLS MAY NOT BE USED. SEE FLOOR PLANS FOR APPLICABLE DEVICES.

ELECTRICAL DRAWING INDEX

SHEET	NAME
E000	ELECTRICAL LEGEND
E001	ELECTRICAL SPECIFICATIONS
E002	ELECTRICAL SPECIFICATIONS
E201	FIRST FLOOR PLAN POWER
E202	POWER FIRST FLOOR PLAN CANOPY
E301	FIRST FLOOR CEILING PLAN LIGHTING
E302	LIGHTING FIRST FLOOR CEILING PLAN CANOPY
E501	ELECTRICAL RISER
E601	PANEL SCHEDULES

ELECTRICAL ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ARMS	ARCFLASH REDUCTION MAINTENANCE SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRASFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BMS	BUILDING MANAGEMENT SYSTEM
CPT	CONTROL POWER TRANSFORMER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CUV	CABINET UNIT VENTILATOR
DIA	DIAMETER
DPDT	DOUBLE POLE, DOUBLE THROW
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EHD	ELECTRIC HAND DRYER
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
F	FAN
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FR	FINNED RADIATION
G	GROUND
GDS	GENERATOR DOCKING STATION
GFAR	GROUND FAULT ALARM RELAY
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
H-O-A	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HUH	HORIZONTAL UNIT HEATER
IFC	FAULT CURRENT
IMC	INTERMEDIATE METALLIC CONDUIT
IR	INFRARED
KCMIL	KILO CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LRA	LOCKED ROTOR AMPERES
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND FAULT
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MTS	MANUAL TRANSFER SWITCH
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NEC	NATIONAL ELECTRICAL CODE
NO.	NUMBER
OC	ON CENTER
P	PUMP
PC	PLUMBING CONTRACTOR
PDU	POWER DISTRIBUTION UNIT
PQM	POWER QUALITY METER
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
Q	QUANTITY
RAF	RETURN AIR FAN
RCP	RADIANT CEILING PANEL
RGS	RIGID GALVINIZED STEEL
RTU	ROOF TOP UNIT
SBL	STOW BY LIGHTING
SCU	SELF-CONTAINED UNIT
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SS	SPLIT SYSTEM
STP	SHIELDED TWISTED PAIR
STS	STATIC TRANSFER SWITCH
TYP	TYPICAL
V	VOLT, VOLTS
VA	VOLT AMPERES
VAV	VARIABLE AIR VOLUME
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

ELECTRICAL SYMBOL LEGEND

POWER

SYMBOL	DESCRIPTION	MTG HT
XX / XX	RECEPTACLE TYPE LEGEND WP = WEATHERPROOF SS = STAINLESS STEEL FACEPLATE GFCI = GROUND FAULT USB = USB TYPE RECEPTACLE T = TAMPERPROOF RECEPTACLE D = DROP CORD	18"
	SIMPLEX RECEPTACLE	18"
	DUPLEX RECEPTACLE	18"
	DUPLEX RECEPTACLE	FLOOR
	DUPLEX RECEPTACLE, LOWER SWITCHED	18"
	QUADRUPLEX RECEPTACLE	18"
	QUADRUPLEX RECEPTACLE	CEILING
	QUADRUPLEX RECEPTACLE	FLOOR
	SPECIAL PURPOSE RECEPTACLE - LETTER INDICATES TYPE	18"
	SPECIAL PURPOSE RECEPTACLE - LETTER INDICATES TYPE	CEILING
	DUPLEX RECEPTACLE, EMERGENCY CIRCUIT	18"
	QUADRUPLEX RECEPTACLE, EMERGENCY CIRCUIT	18"
J	JUNCTION BOX	
J	JUNCTION BOX; FLUSH	18"
J	JUNCTION BOX; FLUSH	FLOOR
T	PROGRAMMABLE THERMOSTAT	48"
U	PROGRAMMABLE THERMOSTAT - UNIT HEATER	48"
M	HEAT INDEX MONITOR	60"
G	GAS DETECTION SENSOR	
PB	PULLBOX SIZED AS REQUIRED OR NOTED	

POWER DISTRIBUTION

SYMBOL	DESCRIPTION	MTG HT
GEN	GENERATOR - SIZE VARIES	
T	TRANSFORMER - SIZE VARIES	
	PANELBOARD	WALL OR FLOOR
	SWITCHBOARD/DISTRIBUTION PANELBOARD	WALL OR FLOOR
	GROUND	
M	METER	
MH	MANHOLE	
HH	HANDHOLE	
ATS	AUTOMATIC TRANSFER SWITCH	

MOTORS

SYMBOL	DESCRIPTION	MTG HT
	PUSHBUTTON - SINGLE	
	PUSHBUTTON - DOUBLE	
	PUSHBUTTON - TRIPLE	
S_M	MOTOR RATED TOGGLE SWITCH	
S_F	SWITCH / FUSE ASSEMBLY	
S_T	SWITCH / THERMAL OVERLOAD	
	COMBO MOTOR STARTER / DISCONNECT SWITCH	60"
	MOTOR	
XXX - ###	EQUIPMENT W/ ELECTRICAL CONNECTION, REFER TO MOTOR SCHEDULE (MECHANICAL, FOOD SERVICE, ETC.)	
	NON-FUSED DISCONNECT SWITCH	54"
F	FUSED DISCONNECT SWITCH	54"
	MOTOR STARTER	54"
	MUSHROOM HEAD PUSHBUTTON	
	EQUIPMENT CONNECTION	

TYPICAL ANNOTATION

SYMBOL	DESCRIPTION	MTG HT
	AREA OF REVISION	
1	REVISION SEQUENCE NUMBER	
X	KEYED NOTE	
X	DEMOLITION KEYED NOTE	
	POINT OF CONNECTION OF EXISTING SYSTEM	
	POINT OF DISCONNECTION OF EXISTING SYSTEM	
1 / A7.1	DETAIL NUMBER DRAWING NUMBER	

LIGHTING CONTROLS

SYMBOL	DESCRIPTION	MTG HT
XX	LIGHTING CONTROL TYPE LEGEND X = SINGLE POLE SWITCH X DENOTES SWITCH LEG 2 = DOUBLE POLE SWITCH 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH EP = EXPLOSION PROOF SWITCH E = EMERGENCY SWITCH LV = LOW VOLTAGE SWITCH PL = PILOT LIGHT SWITCH K = KEY OPERATED SWITCH L = LIGHTING TOGGLE SWITCH LV# = ROOM CONTROLLER WALLSTATION DOS = WALL OCCUPANCY SENSOR WITH DIMMING OS = WALL OCCUPANCY SENSOR	46"
OS / XX	CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN v (LOWERCASE) = VACANCY CONTROL DESIGNATION	CEILING
	DIMMER SWITCH TYPE LEGEND S = LOW VOLTAGE TOGGLE SWITCH L = LOW VOLTAGE DIMMING SWITCH A = LOW VOLTAGE DIMMING/OCCUPANCY SWITCH	46"
	CEILING MOUNTED EMERGENCY RELAY D = UL924 EMERGENCY BYPASS RELAY - 0-10V DIMMING CAPABILITY S = UL924 EMERGENCY BYPASS RELAY - SWITCHED	46"
TC	TIMECLOCK	
PC	PHOTOCELL	

LIGHTING

SYMBOL	DESCRIPTION	MTG HT
	FIXTURE RECESSED MOUNTED	CEILING
	FIXTURE SURFACE MOUNTED	CEILING
	CEILING MOUNTED STRIP FIXTURE	
	WALL MOUNTED STRIP FIXTURE	WALL
	DOWN LIGHT FIXTURE	CEILING
	WALL MOUNTED FIXTURE	WALL
	PENDANT FIXTURE	
	TRACK LIGHTING, HEADS SPACED AS INDICATED	
	LIGHT FIXTURE ON EMERGENCY CIRCUIT	
	EXIT LIGHT FACE DIRECTIONAL ARROWS AS INDICATED	WALL
	EXIT LIGHT FACE DIRECTIONAL ARROWS AS INDICATED	CEILING
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED	WALL
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED	CEILING
	SELF-CONTAINED EMERGENCY LIGHTING UNIT	WALL
	SELF-CONTAINED EMERGENCY LIGHTING UNIT	CEILING
	EXTERIOR POLE MOUNTED FIXTURE	GRADE
	EXTERIOR BOLLARD FIXTURE	GRADE

CABLING

SYMBOL	DESCRIPTION	MTG HT
	WIRE, CONDUIT PER SPECIFICATIONS	
	WIRE IN OR BELOW SLAB OR UNDER GROUND (UG), CONDUIT PER SPECIFICATIONS	
	WIRE COUNTS WHEN MORE THAN 2 WIRES IN CONDUIT PLUS GROUND	
	HOME RUN	
	CONDUIT SLEEVE	
	CONDUIT SLAB	

ONE LINE DIAGRAM

SYMBOL	DESCRIPTION	MTG HT
	CIRCUIT BREAKER	
K	CIRCUIT BREAKER WITH KIRK KEY INTERLOCK	
	TRANSFORMER	
	CURRENT TRANSFORMER	
M	METER WITH CONNECTION	
SPD	SURGE PROTECTION DEVICE	
LCP#	LIGHTING CONTROL PANEL	
	GROUND BAR	
	GROUND ROD	
SEL-751A	FEEDER PROTECTION RELAY	

COMMUNICATIONS/DATA

SYMBOL	DESCRIPTION	MTG HT
	TELEPHONE CABINET - SIZE AS INDICATED	
	RACK - SIZE AS INDICATED	
	COMMUNICATIONS BOARD - SIZE AS INDICATED	
	FLOOR BOX	
	TELEPHONE	18"
W	TELEPHONE - WALL HUNG	46"
	COMBINATION PHONE/DATA OUTLET	18"
	DATA OUTLET	18"
C	DATA - CEILING MOUNTED	CEILING
H	HANDSET	
X	WALL CLOCK TYPE LEGEND M = MASTER CLOCK D = DUAL FACE CLOCK C = CLOCK OUTLET NONE = STANDARD WALL CLOCK	94"
S	SPEAKER - WALL MOUNTED	
S	SPEAKER - CEILING MOUNTED	94"
SR	SOUND REINFORCEMENT - CEILING MOUNTED	
X	WALL/FLOOR COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM	
X	CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM	
X	WALL COMMUNICATIONS DEVICE SC = SCREEN CONTROLLER TV = TV OUTLET V = VOLUME CONTROL	
X	CEILING COMMUNICATIONS DEVICE M = MICROPHONE OUTLET SC = SCREEN CONTROLLER TERMINATION BOX TV = TV OUTLET	
	BUZZER	
S	BUZZER/STROBE	
	BELL	
C	CHIME	44"
RP	RESCUE ASSIST CALL STATION	
RAP	RESCUE ASSIST ZONE ANNUNCIATOR	
RPB	RESCUE ASSIST POWER SUPPLY WITH PHONE INTERFACE	

SECURITY

SYMBOL	DESCRIPTION	MTG HT
D	DOOR POSITION SWITCH / CONTACT, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
EL	ELECTRIC STRIKE, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
S	LENEL CARD READER, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
S K	LENEL COMMAND KEYPAY, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
C	SECURITY CAMERA, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
M	MOTION DETECTOR, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
RX	REQUEST TO EXIT DEVICE, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
H	SECURITY SOUNDER / STROBE, FOR REFERENCE ONLY. COORDINATE WITH SECURITY DRAWINGS FOR FINAL LOCATION.	
AI	AI PHONE LOCATION	

OWNER EQUIPMENT

SYMBOL	DESCRIPTION	MTG HT
(####)	MODULE ID NUMBER, REFER TO MODULE EQUIPMENT SCHEDULE FOR REQUIREMENTS.	

D DROP CORD

NOTES:

1. THESE SYMBOLS COMPRISE A STANDARD LIST; ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

2. MOUNTING HEIGHTS SHOWN ARE STANDARD AND SHALL BE USED UNLESS INDICATED OTHERWISE ELSEWHERE IN THE DRAWINGS. MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.

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State of Florida Licenses:
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Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Engineer of Record
##/##/2021
TBD-Elec License
CPH, INC.

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	CPH
Drawn:	CPH
Checked:	CPH
Job No.:	M7030.1
10/22/2021	© 2021

ELECTRICAL LEGEND

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
E000

SECTION 16000 - ELECTRICAL GENERAL CONDITIONS

1.01 GENERAL REQUIREMENTS

A. THIS PORTION OF THE WORK IS PART OF TOTAL PROJECT AND ALL PROVISIONS OF THE PROJECT GENERAL REQUIREMENTS, CONDITIONS OF THE CONTRACT, SUPPLEMENTARY CONDITIONS AND ALL OTHER CONTRACT DOCUMENTS SHALL, ALSO APPLY TO THIS SECTION OF THE PROJECT. ALL THE PLANS AND SPECIFICATIONS ARE TO BE A PART OF THE TOTAL PROJECT AND ALL CONTRACTORS ARE HEREBY DIRECTED TO THESE PLANS AND SPECIFICATIONS FOR THE TOTAL SCOPE OF THE WORK. ANY DISCREPANCY OR DIFFERENCES BETWEEN ANY OF THESE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR INTERPRETATION.

B. THE ELECTRICAL DRAWINGS SHOW THE SCOPE AND THE GENERAL ARRANGEMENT OF ALL ELECTRICAL, EQUIPMENT, AND WIRING DEVICES AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION, SITE CONDITIONS, AND AS THE WORK OF OTHER TRADES PERMITS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY, AND ARE NOT INTENDED TO INCLUDE ALL THE DETAILS OR DIMENSIONS SHOWN ON THE ARCHITECTURAL, STRUCTURAL, OR MECHANICAL DRAWINGS, AND CONVERSELY THE SAME; HOWEVER, EACH DRAWING IS INTENDED TO SUPPLEMENT THE OTHERS, AND THE INTERPRETATION OF THE DRAWINGS SHALL BE SUCH THAT THE ARCHITECTURAL, STRUCTURAL, MECHANICAL OR ELECTRICAL DETAILS ARE INCLUDED ON ALL THE VARIOUS DRAWINGS. FIGURED DIMENSIONS, WHERE SHOWN, SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. WHEN NO FIGURES OR DIMENSIONS ARE NOTED, THE DRAWINGS SHALL BE ACCURATELY FOLLOWED. IN THE EVENT CERTAIN DETAILS AND ITEMS NECESSARY FOR THE COMPLETE BUILDING AND TO OBTAIN THE DESIRED RESULTS ARE OMITTED FROM THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL REQUEST INSTRUCTIONS AND INSTALL SAME. THE ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS SHOWN ON ALL OF THE DRAWINGS. GENERAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL ARRANGE HIS WORK ACCORDINGLY.

C. IN THE EVENT CERTAIN DISCREPANCIES ARE DISCOVERED BETWEEN PLANS AND SPECIFICATIONS AFTER BIDDING HAS TAKEN PLACE, THE INTERPRETATION OF THE INTENDED FUNCTION WILL BE BY THE OWNER. THE CONTRACTOR SHALL BEAR THE COST OF FURNISHING AND INSTALLING THE REQUIRED MATERIAL SO AS TO PROVIDE A COMPLETE AND WORKING SYSTEM.

1.02 SUBSTITUTION CLAUSE

EACH ITEM SPECIFIED HEREIN SHALL REQUIRE PRIOR APPROVAL OF THE ARCHITECT FOR ANY SUBSTITUTIONS. IF ANY CONTRACTOR WISHES TO BID ON ANY EQUIPMENT OTHER THAN THE MANUFACTURERS LISTED, HE SHALL REQUEST IN WRITING APPROVAL OF SAID EQUIPMENT AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO BID DATE OR AS SET FORTH IN THE ARCHITECTURAL SPECIFICATIONS. (ARCHITECTURAL SPECIFICATIONS TAKE PRECEDENCE). ALL ITEMS SUBMITTED FOR PRIOR APPROVAL SHALL BE BOUND IN A BINDER AND SEPARATED WITH INDEX TABS.

1.03 SCOPE

A. ALL LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR CONSTRUCTION, ERECTION, INSTALLATION, AND CONNECTION OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN OR SHOWN ON DRAWINGS, IN A WORKMAN LIKE MANNER. DELIVER TO OWNER UPON COMPLETION READY FOR USE IN ALL RESPECTS, THE FOLLOWING COMPLETE ELECTRICAL SYSTEM:

1. COMPLETE SECONDARY SERVICES AND BRANCH CIRCUIT WIRING
2. COMPLETE EQUIPMENT WIRING
3. ALL LIGHTING FIXTURES COMPLETE WITH LAMPS AS SPECIFIED HEREIN
4. TELEPHONE CONDUIT SYSTEM & PULL STRING
5. FIRE ALARM AND WIRING OF DEVICES INDICATED
6. ALL CONTROL WIRING FOR TEMPERATURE CONTROLS
7. ALL TEMPORARY WIRING FOR LIGHTS AND POWER DURING CONSTRUCTION
8. AUTOMATION WIRING FOR ALL EQUIPMENT SPECIFIED UNDER MECHANICAL SECTION
9. ALL EMPTY RACEWAYS AS SHOWN ON PLANS WITH PULL STRING
10. PUBLIC ADDRESS OR MUSIC SYSTEMS
11. RELOCATION OF ANY EXISTING ELECTRICAL EQUIPMENT AS REQUIRED

B. FAILURE TO MENTION ANY SPECIFIC ITEMS NECESSARY FOR A COMPLETE SYSTEM SHALL NOT EXCUSE THE CONTRACTOR FROM FURNISHING AND INSTALLING SAME.

1.04 CODES AND STANDARDS

A. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, LATEST EDITION OF THE NEC, AND UTILITY COMPANY REGULATIONS. IN NO CASE WILL WORK OR MATERIALS INFERIOR TO THESE SPECIFICATIONS BE ACCEPTED EVEN IF PERMITTED BY CODE.

B. IN CASES OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS AND THE CONTRACT DOCUMENTS, THE MOST STRINGENT WILL GOVERN.

1.05 COORDINATION

A. THE ELECTRICAL WORK SHALL BE COORDINATED WITH THE REQUIREMENTS OF THESE SPECIFICATIONS, AND ALSO WITH THE REQUIREMENTS OF THE OTHER DIVISIONS AND WITH ALL OF THE DRAWINGS FOR THE ENTIRE PROJECT. THE ELECTRICAL WORK SHALL BE ACCOMPLISHED ON SUCH A SCHEDULE AND IN SUCH A MANNER AS NOT TO DELAY NOR INTERFERE WITH OTHER CONSTRUCTION WORK.

B. THE CONTRACTOR SHALL PROMPTLY REPORT TO THE OWNER ANY DELAY OR DIFFICULTIES ENCOUNTERED IN THE INSTALLATION OF HIS WORK WHICH MIGHT PREVENT PROMPT AND PROPER INSTALLATION OF HIS WORK OR MAKE IT UNSUITABLE TO CONNECT OR RECEIVE THE WORK OF OTHERS. HIS FAILURE TO SO REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE WORK OF THE CONTRACTOR AS BEING FIT AND PROPER FOR THE RECEPTION OF HIS WORK.

C. THE CONTRACTOR SHALL CAREFULLY LAY OUT HIS WORK ON THE PREMISES AND MAKE PROPER PROVISION FOR THE OTHER WORK. OFFSETS SHALL BE MADE WHEREVER IT IS NECESSARY TO CLEAR FINISH ROOMS, STRUCTURAL MEMBERS, OR OTHER OBSTRUCTIONS. THE CONTRACTOR SHALL CAREFULLY PLAN HIS WORK SO AS TO MINIMIZE THE NUMBER OF OFFSETS REQUIRED.

D. THE CONTRACTOR SHALL ALSO CAREFULLY COORDINATE THE LOCATION OF ALL EQUIPMENT CONDUIT RUNS, FLOOR AND WALL PENETRATIONS, ETC., WITH THE INSTALLATION OF WORK IN DIVISION 15000 AND OTHER SECTIONS OF THESE SPECIFICATIONS. ANY WORK INSTALLED BY THE CONTRACTOR WITHOUT CONSIDERING EQUIPMENT, DUCTWORK, PIPING, ETC., OF OTHER TRADES, SHALL BE CHANGED OR RELOCATED AS REQUIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THIS INCLUDES ALL ELECTRICAL DEVICES, SWITCHES, RECEPTACLES, PHONE/COMMUNICATION OUTLETS, ETC. THAT ARE MOUNTED IN WALLS ABOVE OR AROUND CABINETS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FINAL LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL CASEWORK/INTERIOR ELEVATIONS/DETAILS. WHERE APPLICABLE, THE CONTRACTOR SHALL ALSO VERIFY WITH THE OWNER OR OWNER'S REPRESENTATIVE FOR ANY SPECIFIC CONDITIONS OR REQUIREMENTS FOR ELECTRICAL DEVICES MENTIONED ABOVE.

E. ALL ELECTRICAL SERVICE AND TELEPHONE SERVICE REQUIREMENTS SHALL BE COORDINATED BY THE CONTRACTOR AS SHOWN ON PLANS AND CONFIRMED WITH THE UTILITY COMPANY BY THE CONTRACTOR TO ENSURE THAT UTILITIES ARE ACCEPTED BY THE UTILITY COMPANY IT CONCERNS.

1.06 INSTALLATION AND ARRANGEMENT

THE CONTRACTOR SHALL ARRANGE CONDUITS, RACEWAYS AND ELECTRICAL EQUIPMENT TO PERMIT READY ACCESS TO COMPONENTS AND TO CLEAR THE OPENING TO SWINGING AND OVERHEAD DOORS AND OF ACCESS PANELS. THIS ALSO INCLUDES THE INSTALLATION OF ALL SERVICE DISCONNECTS AT MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL MOUNT SERVICE DISCONNECTS ON AN ADJACENT WALL OR NON-REMOVABLE PANELS TO ALLOW REMOVABLE PANELS TO BE REMOVED FOR FUTURE SERVICING OF EQUIPMENT.

1.07 RECORD DRAWINGS ("AS-BUILTS")

A. RECORD DRAWINGS - THE CONTRACTOR SHALL FURNISH TO THE OWNER AND ARCHITECT RECORD DRAWINGS SHOWING CONDUIT SYSTEMS WHERE APPLICABLE. CONDUIT SIZES, REROUTING, ETC., FOR UNDER FLOOR CONDUITS SHALL BE SHOWN. ALSO PROVIDE A REPRODUCIBLE TRACING OF THE SITE PLAN SHOWING POWER, TELEPHONE, CABLE, TV, SITE LIGHTING, ETC. IN ADDITION TO THESE DRAWINGS, A COMPLETE SET OF DRAWINGS FOR FIRE ALARM AND COMMUNICATION SYSTEM.

B. TYPEWRITTEN OR NEATLY HAND WRITTEN PANEL SCHEDULES SHALL BE PROVIDED FOR PANELBOARDS INDICATING THE LOADS SERVED AND THE CORRECT BRANCH CIRCUIT NUMBER, AS INSTALLED. ALSO LEAVE LEGIBLE CIRCUIT CARD IN POCKET OF BREAKER PANEL DOOR.

1.08 EQUIPMENT AND MATERIALS

A. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE MANUFACTURER'S NAME, TRADE NAME AND THE UL LABEL IN EVERY CASE WHERE A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR MATERIAL. THE EQUIPMENT TO BE FURNISHED UNDER EACH SECTION OF THE SPECIFICATIONS SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF A UNITED STATES OF AMERICA MANUFACTURER REGULARLY ENGAGED IN THE PRODUCTION OF THE REQUIRED TYPE OF EQUIPMENT AND SHALL BE THE MANUFACTURER'S LATEST AND APPROVED DESIGN.

B. DELIVERY AND STORAGE: EQUIPMENT AND MATERIALS SHALL BE DELIVERED TO THE SITE AND STORED IN ORIGINAL CONTAINERS, SUITABLY SHELTERED FROM THE ELEMENTS, BUT READILY ACCESSIBLE FOR INSPECTION UNTIL INSTALLED. ALL ITEMS SUBJECT TO MOISTURE DAMAGE SHALL BE STORED IN DRY, HEATED SPACES.

C. EQUIPMENT AND MATERIALS OF THE SAME GENERAL TYPE SHALL BE OF THE SAME MAKE THROUGH THE WORK TO PROVIDE UNIFORM APPEARANCE, OPERATION AND MAINTENANCE.

D. PROTECTION OF WORK: THE CONTRACTOR SHALL TAKE PRECAUTIONS AT ALL TIMES TO PROPERLY PROTECT THE ELECTRICAL EQUIPMENT FROM DAMAGE. UNINSTALLED EQUIPMENT SHALL REMAIN CRATED AND COVERED WITH CANVAS OR HEAVY PLASTIC TARPAULINS UNTIL INSTALLED. EQUIPMENT THAT IS BEING INSTALLED, OR HAS BEEN INSTALLED, SHALL BE PROTECTED AGAINST DIRT, WATER, CONSTRUCTION DEBRIS, WEATHER, THEFT, AND CHEMICAL OR MECHANICAL DAMAGE. ALL DAMAGED EQUIPMENT SHALL BE REPAIRED AND/OR REPLACED. AT THE COMPLETION OF THE WORK, ALL FIXTURES, EQUIPMENT, AND MATERIALS SHALL BE THOROUGHLY CLEANED AND POLISHED. THE CONTRACTOR SHALL REPAIR AND CORRECT, AT HIS OWN EXPENSE, ALL DAMAGES AND DEFECTS WHICH DEVELOP BEFORE THE WORK IS ACCEPTED BY THE OWNER.

E. SAFETY WARNING SIGNS SHALL BE FURNISHED AND INSTALLED AT ALL ELECTRICAL EQUIPMENT AND SWITCHGEAR.

F. DIMENSIONS: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SIZES AND SHAPES OF EQUIPMENT SO THAT THE FINAL INSTALLATION SHALL SUIT THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.

G. MANUFACTURER'S DIRECTIONS SHALL BE FOLLOWED COMPLETELY IN DELIVERY, STORAGE, PROTECTION AND INSTALLATION OF ALL EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL PROMPTLY GIVE NOTICE IN WRITING OF ANY CONFLICT BETWEEN ANY REQUIREMENT OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S DIRECTIONS AND SHALL OBTAIN THE WRITTEN INSTRUCTION BEFORE PROCEEDING WITH THE WORK. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE MANUFACTURER'S DIRECTIONS OR SUCH WRITTEN INSTRUCTIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.

1.09 EQUIPMENT ACCESSORIES

A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, ACCESSORIES, CONNECTIONS, AND INCIDENTAL ITEMS NECESSARY TO FULLY COMPLETE THE WORK, READY FOR USE, OCCUPANCY AND OPERATION BY THE OWNER.

B. WHERE EQUIPMENT REQUIRING DIFFERENT ARRANGEMENT OF CONNECTIONS FROM THOSE SHOWN OR APPROVED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT TO OPERATE PROPERLY AND IN HARMONY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL MAKE ALL INCIDENTAL CHANGES IN HEATERS, PANELBOARD, CONDUIT, WIRING, ETC. HE SHALL PROVIDE ANY ADDITIONAL MOTORS, CONTROLLERS, AND OTHER ADDITIONAL EQUIPMENT REQUIRED FOR THE PROPER OPERATION OF THE SYSTEM RESULTING FROM THE SELECTION OF EQUIPMENT, INCLUDING ALL REQUIRED CHANGE IN AFFECTED TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF ROUGHING-IN AND CONNECTIONS. SUCH CHANGES SHALL BE MADE AT NO INCREASE IN THE CONTRACT AMOUNT OR ADDITIONAL COST TO THE OTHER TRADES.

C. ANCHORS, BOLTS, AND SCREWS: SECURELY FASTEN CONDUIT STRAPS, CUTOUT SWITCHES, ETC., TO WALLS, SLABS, ETC., WITH CADMIUM PLATED SCREWS AND ACKERMAN-JOHNSON LEAD CINCH ANCHORS, EXPANSION BOLTS OR APPROVED EQUAL ANCHORS, FITTED IN HOLES DRILLED WITH STAR DRILL, AND FOR MORE SEVERE SERVICES, USE LEAD CINCH ANCHOR BOLTS OR APPROVED MANUFACTURER. FOR EXPOSED WORK, USE CADMIUM PLATED BOLTS. WOOD PLUGS WILL NOT BE ACCEPTED.

1.10 ELECTRICAL WORKMANSHIP

A. WHEREVER EQUIPMENT REQUIRING ELECTRICAL CONNECTION IS SPECIFIED, ALL WORKMANSHIP AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL DISCONNECT SWITCHES, STARTERS, PUSH BUTTON STATIONS, AND HAND-OFF AUTO SWITCHES SHALL BE FURNISHED, INSTALLED AND WIRED BY THE CONTRACTOR EXCEPT WHERE LISTED SPECIFICALLY TO BE FURNISHED WITH THE ITEM OF EQUIPMENT IT CONTROLS, IN WHICH CASE THE CONTRACTOR SHALL MOUNT AND WIRE COMPLETELY. ADDITIONAL DISCONNECTS REQUIRED BY THE ELECTRICAL CODE SHALL BE FURNISHED, INSTALLED AND CONNECTED UNDER THE ELECTRICAL SECTION OF THE SPECIFICATIONS.

B. COORDINATION: THE CONTRACTOR SHALL CHECK THE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO ASSURE THE PROPER LOCATION AND ELECTRICAL SERVICE CHARACTERISTICS TO THE INDIVIDUAL OUTLETS SERVING MECHANICAL AND ELECTRICAL EQUIPMENT AND SHALL REQUEST APPROVAL OF ANY REQUIRED MODIFICATION TO SUIT THE ACTUAL EQUIPMENT TO BE FURNISHED.

C. IDENTIFICATION FOR ELECTRICAL EQUIPMENT AND CIRCUITS SHALL BE PROVIDED AND FURNISHED UNDER THIS SECTION, USING ITEM NUMBERS AND NOMENCLATURE AS SHOWN ON THE ELECTRICAL DRAWINGS, OR AS INSTRUCTED BY THE ARCHITECT.

1. ALL SWITCHGEAR, DISTRIBUTION PANELBOARDS, TRANSFORMERS, PANELBOARDS, DISCONNECTS, ASSOCIATED MOTOR STARTERS, CONTACTORS, AND TIME CLOCKS FURNISHED BY THE CONTRACTOR SHALL BE IDENTIFIED, BY NAMEPLATES INDICATING DESIGNATED LEGEND, VOLTAGE AND PHASE AND SHALL BE SECURELY FASTENED TO THE EQUIPMENT.

1.11 SYSTEM OPERATING TESTS

NECESSARY TESTS AND ADJUSTMENTS: ALL NECESSARY TESTS AND ADJUSTMENTS FOR THE PROPER OPERATION OF THE ELECTRICAL SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR WITH INSTRUMENTS FURNISHED BY HIM FOR THIS PURPOSE. THE TEST RESULTS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT FOR REVIEW AND APPROVAL.

1.12 INSTRUCTIONS TO OWNER

THE CONTRACTOR SHALL INSTRUCT THE OPERATING PERSONNEL OF THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL ELEMENTS OF THE ELECTRICAL SYSTEMS.

1.13 OPERATING AND MAINTENANCE MANUALS

SPARE PARTS LISTS, OPERATING INSTRUCTIONS, MANUFACTURER'S RECOMMENDED PREVENTATIVE MAINTENANCE INSTRUCTIONS AND SPECIFICATIONS SHEETS FOR EACH ITEM OF THE ELECTRICAL EQUIPMENT SHALL BE SUBMITTED, IN TRIPLICATE, BY THE CONTRACTOR AT THE PAY APPLICATION FOR 75% COMPLETION. ALL PAYMENT REQUEST OVER 75% WILL BE DENIED UNTIL THIS INFORMATION IS RECEIVED.

SECTION 16111 - CONDUITS

1.01 GENERAL

ALL WIRES AND CABLES SHALL BE RUN IN CONDUIT, WHICH SHALL BE STANDARD HEAVY WALL, INTERMEDIATE, OR ELECTRIC METALLIC TUBING (EMT). RIGID PVC CONDUIT MAY BE USED FOR UNDERGROUND WORK IF APPROVED BY LOCAL CODE.

2.01 PRODUCTS

A. RIGID CONDUIT: THICK WALL HOT-DIPPED GALVANIZED, ASA STANDARD SPECIFICATION NO. C80-1, ENAMELED INSIDE AND OUT JOINTS SHALL BE WATERTIGHT THREADED TYPE WITH APPROVED SEALANT APPLIED TO MALE THREADS.

B. ELECTRIC METALLIC TUBING (EMT): ELECTRO-GALVANIZED, ANSI STANDARD SPECIFICATION NO. C80-3, ENAMELED INSIDE AND OUT. FITTINGS SHALL BE ALL STEEL COMPRESSION TYPE AS MFD. BY T & B.

C. RIGID STEEL AND EMT CONDUITS AS MANUFACTURED BY YOUNGSTOWN, TRIANGLE, GENERAL ELECTRIC, NATIONAL, REPUBLIC, OR ALLIED.

D. SCHEDULE 80 PVC CONDUIT, USED FOR UNDERGROUND INSTALLATION, SHALL BE AT LEAST 2 FEET BELOW FINISH GRADE. ALL JOINTS SHALL BE WATERTIGHT. WHERE STUBBED UP THROUGH FLOOR, SLAB OR ABOVE GRADE, A 90° RIGID GALVANIZED ELBOW SHALL BE USED WITH RIGID GALVANIZED STUB UP TO 2 INCHES ABOVE GRADE. A BARE GROUND WIRE TO MEET CODE REQUIREMENTS SHALL BE INSTALLED WITH ALL CIRCUITS PULLED INTO PVC CONDUITS. CONDUIT SHALL BE AS MANUFACTURED BY CARLON. JOINT SEALANT SHALL BE AS PER MANUFACTURER'S RECOMMENDATION FOR SPECIAL PIPE.

E. CONDUIT SUPPORTS: ALL CONDUITS SHALL BE SECURED IN PLACE WITH APPROVED STRAPS, HANGER, OR CLAMPS PER NEC. NO WIRE FOR SUPPORT WILL BE ALLOWED.

F. FLEXIBLE CONDUIT: CONDUIT CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT SHALL BE MADE WITH 18-INCH MAXIMUM OF TYPE U.S. GRAY LIQUID AND TIGHT NEOPRENE JACKETED FLEXIBLE CONDUIT AS MANUFACTURED BY ANACONDA. FITTINGS SHALL BE LIQUID TIGHT INSULATED THROAT TYPE AS MANUFACTURED BY T. & B. BX WILL NOT BE PERMITTED.

3.01 INSTALLATION

A. CONDUITS INSTALLED IN OR UNDER CONCRETE OR BELOW GRADE SHALL BE THICK WALL PVC (SCH. 80) OR RIGID STEEL IF REQUIRED BY LOCAL CODES. SERVICE CONDUITS EXPOSED SHALL BE RIGID STEEL.

B. ALL POWER AND LIGHTING CONDUITS IN BUILDING SHALL BE EMT UNLESS OTHER TYPE IS REQUIRED BY LOCAL CODES.

C. USE FACTORY ELBOWS FOR 1-1/2" CONDUIT AND LARGER.

D. WHERE FLEXIBLE CONDUIT IS USED FROM OUTLET BOXES TO LIGHTING FIXTURES, USE 1/2" INCH FLEXIBLE METAL CONDUIT WITH AN APPROVED GROUNDING CONNECTOR. MC CABLE WITH APPROVED GROUNDING CONDUCTOR IS ALLOWED.

E. REAM AND CLEAN CONDUIT BEFORE INSTALLATION AND PLUG OPENINGS AND BOXES TO KEEP THEM CLEAN DURING CONSTRUCTION.

F. ALL EXPOSED CONDUIT SHALL RUN NEATLY AT RIGHT ANGLES, PLUMB AND PARALLEL TO WALLS. ALIGN CONDUIT TERMINATIONS AT PANELBOARDS, SWITCHBOARDS, JUNCTION BOXES, ETC., AND INSTALL PLUMB. PROVIDE SUPPORTS AS REQUIRED TO HOLD ALIGNMENT.

G. CONDUITS SHALL BE NEATLY GROUPED WHERE SEVERAL LINES FOLLOW A PARALLEL COURSE. THEY SHALL BE WALL SUPPORTED, USING RING OR TRAPEZE-TYPE HANGERS. PERFORATED STRAP HANGERS OR TWISTED WIRE SHALL NOT BE ACCEPTED. HANGERS SHALL BE INSTALLED ON ALL CONDUIT RUNS AND SHALL NOT EXCEED 8'-0" ON CENTER.

SECTION 16120 - WIRES AND CABLES

1.01 GENERAL

ALL WIRES SHALL BE NEW SOFT DRAWN, ANNEALED COPPER HAVING CONDUCTIVITY NOT LESS THAN 98% OF PURE COPPER AND WITH 600V THERMO-PLASTIC INSULATION. WIRE SHALL CONFORM TO THE LATEST REQUIREMENT OF THE NEC, MEET ASME AND ANSI SPECIFICATIONS AND SHALL BE STANDARD AWG SIZE.

2.01 PRODUCTS

A. LIGHTING AND RECEPTACLE, BRANCH MOTOR POWER AND PANEL FEEDERS CIRCUITS SHALL HAVE TYPE THHN/THWN/MTW INSULATION BUILDING WIRE (UNLESS OTHERWISE REQUIRED). ALL CONDUCTORS INSTALLED IN DAMP OR WET LOCATIONS OR UNDER GRADE SHALL HAVE THWN-2 INSULATION. ALL WIRING INSTALLED IN HIGH-TEMPERATURE AREAS SHALL HAVE TYPE AVA INSULATION.

B. ALL STRANDED CONDUCTORS SHALL BE FURNISHED WITH FINISHED FORGED COPPER CONNECTING LUGS, DRILLED OR REAMED THE FULL DIAMETER OF BASE CONDUCTORS.

C. ALL MAINS AND FEEDERS ARE TO RUN THE ENTIRE LENGTH IN CONTINUOUS PIECES WITHOUT JOINTS OR SPLICES. JOINTS IN BRANCH CIRCUITS SHALL OCCUR ONLY AT OUTLETS AND J BOXES WITH NO SPLICES OR TAPS IN CONDUITS.

D. PHASE COLORS PER ELECTRICAL STANDARDS:
208/120V - BLACK, RED, BLUE
480/277V - BROWN, ORANGE, YELLOW

E. AC, MC, BX CABLES PERMITTED AS ALLOWED BY LOCAL CODE. MC CABLE ALLOWED FOR TERMINATING LIGHTING FIXTURES IN SUSPENDED CEILINGS.

SECTION 16130 - OUTLET BOXES

1.01 GENERAL

SIZE ALL BOXES IN ACCORDANCE WITH NEC 314.16.

2.01 PRODUCTS

A. INTERIOR
1. LIGHTING OUTLETS SHALL BE STANDARD 4-INCH OUTLET BOXES PROVIDED WITH 3/8" MALLEABLE IRON FIXTURE STUDS AND BOX HANGERS WHERE REQUIRED.
2. SWITCH AND RECEPTACLE OUTLETS LOCATED IN WALLS SHALL BE STANDARD SINGLE OR GANGED 4-INCH BOXES WITH COVERS AS REQUIRED FOR CONCEALED WORK.

B. EXTERIOR:
1. LIGHTING OUTLETS SHALL BE WEATHERPROOF DIE-CAST ALUMINUM ROUND BOXES.
2. SWITCH AND RECEPTACLE OUTLETS SURFACE-MOUNTED SHALL BE TYPES FS AND FD

C. BOXES SHALL BE MANUFACTURED BY APPLETON ELECTRIC CO., UNIVERSAL, RACO, NATIONAL ELECTRIC PRODUCTS, CROUSE-HINDS OR STEEL CITY.

SECTION 16131 - PULL AND JUNCTION BOXES

1.01 GENERAL

A. SIZE PER NEC 314.16 FOR CONDUCTORS SMALLER THAN #4AWG, OR PER NEC 314.28 FOR CONDUCTORS #4AWG AND LARGER.
B. BOXES SHALL HAVE REMOVABLE SCREW COVERS FOR INSTALLATION AS INDICATED ON THE PLANS.

2.01 PRODUCTS

A. ABOVE-GRADE: GALVANIZED STEEL APPLETON , UNIVERSAL, RACO, NATIONAL ELECTRIC PRODUCTS, OR STEEL CITY.
B. IN-GRADE: CONCRETE OR COMPOSITE POLYMER, OLD CASTLE, CROUSE-HINDS

3.01 INSTALLATION

A. ABOVE-GRADE: BOX SHALL BE SECURELY MOUNTED WITH SUPPORTS INDEPENDENT OF THE CONDUITS ENTERING OR LEAVING THE BOXES.
B. IN-GRADE: SEE PLAN DETAILS

SECTION 16140 - WIRING DEVICES

1.01 GENERAL

PROVIDE EACH SWITCH AND RECEPTACLE OUTLET UNLESS OTHERWISE NOTED OR HEREIN SPECIFIED WITH UNDERWRITER'S APPROVED SPECIFICATION GRADE DEVICES AS LISTED BELOW:

2.01 PRODUCTS

CATALOG NUMBERS ARE HUBBELL WIRING CO., UNLESS NOTED OTHERWISE.

A. WALL SWITCHES; 120/277V, 20A	PART #
ROCKER SWITCH	SNAP2121 (SPST); SNAP2123 (3-WAY)
SLIDING DIMMER SWITCH, 1000W	AS103
B. RECEPTACLES (5-20R)	PART #
DUPLEX 125V/20A	HBL5352
CONTROLLED DUPLEX	BR20C1 OR BR20C2 AS INDICATED IN PLANS
GFCI DUPLEX 125V/20A	GFR5362G

C. DEVICE PLATES: ALL SWITCHES AND RECEPTACLES SHALL BE EQUIPPED WITH SMOOTH NYLON PLATES. WHERE UNITS ARE GROUPED TOGETHER, THEY SHALL BE UNDER ONE COMMON PLATE. COLOR PER ARCHITECTURAL SPECIFICATIONS. PLATES SHALL BE STAINLESS STEEL IN ALL KITCHEN AREAS OF RESTAURANTS, MECHANICAL ROOMS, AND AREAS SUBJECT TO DAMAGE.

D. THE ABOVE SPECIFIED DEVICES ARE HUBBELL AND CONSTITUTE THE QUALITY AND TYPE OF DEVICES. COMPARABLE DEVICES AS MANUFACTURED BY P & S, WOODHEAD, & ARROW HART WILL BE ACCEPTABLE.

3.01 INSTALLATION

A. MOUNT SWITCHES 48" ABOVE FLOOR TO CENTERLINE OF BOX.

B. COORDINATE SWITCH MOUNTING LOCATION WITH DETAILS.

C. IN GENERAL, MOUNT WALL RECEPTACLES 12" ABOVE FLOOR.

SECTION 16170 - DISCONNECT SAFETY SWITCHES

1.01 GENERAL

PROVIDE AND INSTALL ALL CIRCUIT DISCONNECT SWITCHES AS INDICATED ON PLANS AND SPECIFIED HEREIN.

2.01 PRODUCTS

A. DISCONNECT SWITCHES SHALL BE TYPE H.D. HEAVY DUTY, QUICK-MAKE QUICK-BREAK HORSEPOWER RATED, AND IN NEMA 1 ENCLOSURE. UNITS IN OUTDOOR LOCATIONS SHALL BE NEMA 3R ENCLOSURES.

B. UNITS SHALL HAVE VISIBLE CIRCUIT CONDITION IDENTIFICATION AND SHALL BE COVER INTERLOCKED. PROVISIONS SHALL BE MADE FOR PADLOCKING THE HANDLE IN THE "OFF" OR "ON" POSITION.

C. ALL FUSED UNITS SHALL BE EQUIPPED WITH FUSETRON CARTRIDGE FUSES AS MANUFACTURED BY BUSSMAN MANUFACTURING.

D. ALL SWITCHES THROUGHOUT SHALL BE OF THE SAME MANUFACTURER AND SHALL HAVE U.L. LABEL. UNITS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, EATON OR SIEMENS.

SECTION 16401 - TEMPORARY ELECTRICAL SERVICES

1.01 GENERAL

CONTRACTOR SHALL HAVE RESPONSIBILITY FOR THE BASIC TEMPORARY WIRING, ALONG WITH MAINTENANCE THROUGHOUT THE DURATION OF THE PROJECT. BASIC TEMPORARY WIRING SHALL INCLUDE LIGHTING, POWER AND WIRING REQUIREMENTS FOR TEMPORARY CONSTRUCTION USE. IT IS NOT TO FORESEE ALL THE USAGE FOR TEMPORARY; HENCE, ONLY THE BASIC ITEMS SHOULD BE INVOLVED AND IF ADDITIONAL POWER OR LIGHTING IS REQUIRED, THEN THOSE REQUIRING SAME SHALL MAKE PROVISIONS FOR TEMPORARY LIGHTING AS REQUIRED TO PERFORM THEIR OWN WORK.

2.01 PRODUCTS

A. ALL UTILITY CHARGES FOR ELECTRICAL USE SHALL BE PAID BY OTHERS.

B. THE CHARGES BY THE UTILITY COMPANY FOR PROVIDING SERVICE CONNECTIONS SHALL BE INCORPORATED AS A PART OF THESE SPECIFICATIONS AND SHALL BE PAID BY THE ELECTRICAL CONTRACTOR.

C. THE TEMPORARY SERVICE SHALL BE 1 PHASE, 3 WIRE MINIMUM IN LOCATIONS AS REQUIRED. SIZE PER SECTION 16.100 PARAGRAPH 1.07 HERE IN.THE ELECTRICAL SERVICE AND SERVICING EQUIPMENT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE REQUIREMENTS OF THE SERVICING UTILITY COMPANY.

D. RECEPTACLES SHALL BE SPACED SO THAT ALL PARTS OF THE WORK AREA MAY BE REACHED BY A 50-FOOT EXTENSION CORD FOR 120 VOLT APPLIANCES, AND 100 FOOT EXTENSION CORD FOR 208 VOLT OR 240 VOLT EQUIPMENT. DISTANCES FOR LENGTH OF EXTENSION CORDS SHALL BE MEASURED HORIZONTALLY ALONG FLOOR LINES. THESE APPLIANCE CIRCUITS SHALL BE LIMITED TO 20 AMPERE.

3.01 INSTALLATION

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING THE TEMPORARY LIGHTING AND POWER WIRING AS HEREIN DESCRIBED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ONLY THIS AMOUNT OF WORK AND IF ADDITIONAL TEMPORARY WIRING IS REQUIRED BY ANY CONTRACTOR, THEN THE COST OF SAME SHALL BE BORNE BY THOSE REQUIRING ADDITIONAL WIRING.

B. ADEQUATE LIGHTING SHALL BE PROVIDED IN PASSAGEWAYS AND STAIRWAYS. ARTIFICIAL ILLUMINATION, WHEN REQUIRED, SHALL BE AS PER O.S.H.A. REQUIREMENTS.

C. PROVIDE GROUND-FAULT CIRCUIT PROTECTION IN ACCORDANCE WITH N.E.C.

SECTION 16450 - GROUNDING

1.01 GENERAL

THE IDENTIFIED (WHITE) NEUTRAL AND THE COMPLETE CONDUIT SYSTEM SHALL BE EFFECTIVELY GROUNDED PER ARTICLE 250 OF NEC. IDENTIFIED NEUTRAL SHALL BE RUN IN CONDUIT WITH OTHER CONDUCTORS AND SHALL BE INSULATED COPPER.

2.01 PRODUCTS

ALL GROUNDING CONDUCTORS SHALL BE GREEN AND MARKED AS REQUIRED WHEN INDICATED ON CONDUIT RUNS. THE GROUND WIRE SHALL BE INSULATED COPPER. GROUNDING CLAMPS SHALL BE OF THE APPROVED TYPE AND GROUND CONNECTIONS SHALL BE SUCH THAT RESISTANCE WILL NOT INCREASE WITH PASSAGE OF TIME. MAXIMUM GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.

3.01 INSTALLATION

FOLLOWING ARE INCLUDED AS REQUIRED GROUNDED: ELECTRIC SERVICE, ITS EQUIPMENT AND ENCLOSURES, CONDUITS AND OTHER CONDUCTOR ENCLOSURES, NEUTRAL OR IDENTIFIED CONDUCTORS OF WIRING SYSTEM, MAIN SWITCH, POWER AND LIGHTING PANELBOARDS, TRANSFORMERS, NONCURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT SUCH AS MOTORS, STARTERS, CONTROLLERS AND LIGHTING FIXTURES.

SECTION 16471 - PANELBOARDS

1.01 GENERAL

CONTRACTOR SHALL FURNISH AND INSTALL ALL DISTRIBUTION POWER AND LIGHTING PANELBOARDS AS HEREIN AFTER DESCRIBED AND AS SCHEDULED ON PLANS. ALL PANELBOARDS SHALL BE DEAD-FRONT TYPE, MANUFACTURED IN ACCORDANCE WITH THE LATEST NEMA STANDARDS AND BEAR THE UL LABEL.

2.01 PRODUCTS

A. PANELBOARDS SHALL BE MOUNTED IN CODE GAUGE GALVANIZED SHEET STEEL CABINETS WITH A 4-INCH MINIMUM GUTTER SPACE ON ALL SIDES. CABINETS SHALL BE EQUIPPED WITH ADJUSTABLE MOUNTING STUDS AND TRIM CLAMPS. FRONTS TO INCLUDE PAINTED STEEL FRAME, SEMI-CONCEALED HINGED DOOR WITH FLUSH CHROME-PLATED COMBINATION CYLINDER LOCK AND CATCH, ALL KEYED ALIKE. DOOR SHALL BE EQUIPPED WITH DIRECTORY FRAME AND CARDS COMPLETELY TYPEWRITTEN OUT FOR PROPER BRANCH CIRCUIT IDENTIFICATION AND PLASTIC COVER. PANEL FRONTS SHALL BE FINISHED WITH ONE COAT OF BONDRIZED, ONE COAT OF PRIMER AND SURFACER, AND ONE COAT OF GRAY LACQUER FINISH.

B. PANEL INTERIORS SHALL BE RIGIDLY MOUNTED ON STEEL SUPPORTS WITH SELF-SUPPORTING BUS-BAR STRUCTURE ON INSULATING BASES. ALL INDIVIDUAL BRANCHES SHALL BE REMOVABLE WITHOUT DISTURBING ADJACENT UNITS, BUSSING OR CONNECTORS. BRANCHES SHALL BE CHANGEABLE WITHOUT ALTERING BUSSING. ALL TERMINALS SHALL BE OF THE SOLDERLESS ANTI-TURN TYPE SUITABLE FOR COPPER OR ALUMINUM WIRE. BRANCHES SHALL BE ARRANGED FOR BUSSES TO MAINTAIN SEQUENCE PHASING.

C. BRANCHES: SHALL COMPLY WITH FOLLOWING: MOLDED CASE BREAKERS SHALL BE DEION TYPE, WITH QUICK-MAKE, QUICK-BREAK MECHANISM FOR MANUAL AND AUTOMATIC OPERATION; THE UNITS INVERSE TIME TYPE CHARACTERISTICS SHALL BE BY METALLIC TRIPPING ELEMENT WITH MAGNETIC THREE-POLE UNITS SHALL HAVE COMMON TRIP. ALL UNITS SHALL BE OF THE INDICATING TYPE PROVIDING ON/OFF AND TRIPPED POSITIONS OF THE HANDLE.

D. 120/240 VOLT PANELBOARDS: 1 PHASE, 3 WIRE, SOLID NEUTRAL DESIGN WITH SEQUENCE STYLE BUSSING AND FULL CAPACITY NEUTRAL, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE AUTOMATIC AIR CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER "ON" OR "OFF" POSITIONS. PROVIDE COMMON SIMULTANEOUS TRIP FOR 1 AND 2 POLE BREAKERS. PROVIDE INTERRUPTING RATINGS AS REQUIRED BY LOCAL UTILITY.

E. BUS BARS SHALL BE 98% COPPER. PROVIDE ALTERNATE BID FOR ALUMINUM BUS BARS.

F. PANELS SHALL BE MANUFACTURED BY SQUARE D COMPANY, G.E., EATON OR SIEMENS.

3.01 INSTALLATION

A. PANELS SHALL BE SECURELY MOUNTED TO WALLS OR RECESSED CAVITIES.

B. PANEL SPACES SHALL BE EQUIPPED WITH BLANK COVERS.

C. UTILIZATION AND ADEQUATE DISSIPATION OF HEAT.

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Landscape No. LC0000298
Surveyor No. 7143

Engineer of Record
##/##/2021
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CELEBRATING 40 +YEARS cph

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Drawn:	CPH
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ELECTRICAL SPECIFICATIONS

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
E001

SECTION 26 50 00 - LIGHTING INTERIOR

1.01 WORK INCLUDED

A. THIS SECTION INCLUDES SUPPLY AND INSTALLATION OF LUMINAIRES, SUPPORTS AND ACCESSORIES; AND SUPPLY OF PLASTER FRAMES, TRIM RINGS AND BACK BOXES FOR PLASTER OR DRYWALL CEILINGS OR CONCRETE. RECESSED FIXTURES ABOVE 100 WATTS SHALL BE EQUIPPED WITH A THERMAL CUT OUT DEVICE WHEN INSTALLED IN PLASTER OR DRY WALL CEILING.

1.02 SUBMITTALS

A. SUBMIT PRODUCT PERFORMANCE DATA IN ACCORDANCE WITH SECTION 16000.

B. SUBMIT PRODUCT INFORMATION INDICATING PERTINENT PHYSICAL CHARACTERISTICS.

C. SUBMIT SAMPLES OF LUMINAIRES PRIOR TO FINAL PRODUCTION IF REQUESTED.

1.03 COORDINATION

A. CONFIRM COMPATIBILITY AND INTERFACE OF OTHER MATERIALS WITH LUMINAIRE AND CEILING SYSTEM. REPORT DISCREPANCIES TO THE ARCHITECT, AND DEFER ORDERING UNTIL CLARIFIED.

B. COORDINATE WITH DIVISION 15 TO AVOID CONFLICTS BETWEEN LUMINAIRES, SUPPORTS, FITTINGS, AND MECHANICAL EQUIPMENT.

C. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL CEILINGS PLANS FOR ALL MOUNTING OF LIGHT FIXTURES IN CEILINGS. SUPPLY NECESSARY KITS/RINGS AND HARDWARE TO MOUNT FIXTURES

1.04 REQUIREMENTS OF REGULATORY AGENCIES

A. ALL LIGHT FIXTURES SHALL BE APPROVED BY LOCAL AUTHORITY FOR THE TYPE OF APPLICATION FIXTURE HAS BEEN UTILIZED.

2.01 ACCEPTABLE MANUFACTURERS SHALL BE AS SPECIFIED ON FIXTURE SCHEDULE

2.02 RECESSED LUMINAIRES

A. RECESSED LUMINAIRES: PREWIRED TYPE WITH JUNCTION BOX FORMING AN INTEGRAL PART OF THE ASSEMBLY. SPLICE BOX ASSEMBLY CWA ACCESSIBLE FROM BELOW THE CEILING.

B. SUPPLY RECESSED LUMINAIRES COMPLETE WITH TRIM TYPE REQUIRED FOR CEILING SYSTEM INSTALLED. BEFORE ORDERING, CONFIRM CEILING CONSTRUCTION DETAILS AND ARCHITECTURAL FINISH FOR EACH AREA.

2.03 EXIT LIGHTS

A. THIS PROFILE, CAST ALUMINUM FRAME WITH CAST ALUMINUM FACEPLATES 6 INCHES HIGH CUTOUT LETTERS WITH RED OR GREEN PLASTIC BACKING, AS SPECIFIED ON FIXTURE SCHEDULE.

2.04 AUXILIARY LIGHTING

A. THIS PORTION OF SPECIFICATIONS REFER TO LIGHT FIXTURES THAT SUPPLY BUILDING LIGHTING ONLY DURING LOSS OF BUILDING POWER, VOLTAGE DIPS, LOW TEMPERATURES, MOMENTARY POWER DROPS CAUSED BY LIGHTING OR TRANSFORMER BANK SWITCHING OR ANY OTHER PHENOMENON CAUSING HIGH INTENSITY LIGHT FIXTURE TO EXTINGUISH. REFER TO LIGHT FIXTURE SCHEDULE AND PLANS.

2.05 EMERGENCY LIGHTING

A. THIS PORTION OF SPECIFICATIONS REFERS TO LIGHT FIXTURES UTILIZED BOTH AS MEANS OF NORMAL AND EMERGENCY SOURCE OF BUILDING LIGHTING (SEE PLANS FOR LOCATIONS). UNIT EQUIPMENT SHALL INCLUDE SEALED NICKEL CADMIUM BATTERIES, RECTIFIER AND INVERTER CIRCUIT, ALL PRE-ASSEMBLED AND PACKAGED TO ONE SINGLE ASSEMBLY. THIS UNIT SHALL BE MOUNTED INSIDE THE LIGHT FIXTURE. THE UNIT EQUIPMENT SHALL FURNISH UP TO 90 MINUTES OF ILLUMINATION UNTIL BUILDING'S NORMAL POWER IS RESTORED. UNIT EQUIPMENT SHALL BE DESIGNED FOR MOUNTING INSIDE LIGHT FIXTURES, SHALL PROVIDE NO LESS THAN 100% OF LAMP RATED LUMENS AND THE ELECTRONICS MUST CARRY A MINIMUM OF 3 YEARS UNCONDITIONAL GUARANTEE. REFER TO PLANS AND LIGHT FIXTURE SCHEDULE FOR EMERGENCY ILLUMINATION.

2.06 MOUNTING CHANNELS

A. PROVIDE STEEL SUPPORT CHANNEL FOR MOUNTING FLUORESCENT LUMINAIRES AND WIRING BETWEEN LUMINAIRES; SUSPENDED BELOW MECHANICAL PIPING AND DUCT WORK.

3.01 INSTALLATION

A. SUPPORT LUMINAIRES DIRECTLY FROM BUILDING STRUCTURE BY ROD HANGERS AND INSERTS OR METAL ANGLE HEADERS SUPPORTED FROM FRAMING STRUCTURE OF CEILING SUSPENSION SYSTEM UNLESS OTHERWISE NOTED IN PLANS.
B. SUPPORT LUMINAIRES IN SUSPENDED CEILINGS BY FOUR HANGERS PER FIXTURE MINIMUM INDEPENDENT OF CEILING STRUCTURE OR TEE BARS.
C. INSTALL RECESSED LUMINAIRES TO PERMIT REMOVAL FROM BELOW, TO GAIN ACCESS TO OUTLET OR PREWIRED FIXTURE BOX.
D. CONNECT RECESSED LUMINAIRE TO BOXES WITH FLEXIBLE CONDUIT AND FIXTURE WIRE, OR MC CABLE WITH GROUNDING CONDUCTOR IF ALLOWED BY LOCAL CODE.
E. ALIGN LUMINAIRES AND CLEAN DIFFUSERS PRIOR TO FINAL ACCEPTANCE.

SECTION 26 50 00 - LIGHTING (EXTERIOR)

1.01 GENERAL

A. LUMINAIRES, MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH NEC, UL, ANSI, AND AS SHOWN ON THE DRAWINGS AND SPECIFIED.

1.02 SUBMITTALS

A. SUBMIT PRODUCT PERFORMANCE DATA IN ACCORDANCE WITH SECTION 16000.

B. SUBMIT PRODUCT INFORMATION INDICATING PERTINENT PHYSICAL CHARACTERISTICS.

C. SUBMIT SAMPLES OF LUMINAIRES PRIOR TO FINAL PRODUCTION IF REQUESTED.

2.01 PRODUCTS

A. LUMINAIRES SHALL BE WEATHERPROOF, HEAVY DUTY, OUTDOOR TYPES DESIGNED FOR EFFICIENT LIGHT.

B. BRACKET-MOUNTED LUMINAIRES SHALL HAVE LEVELING PROVISIONS AND CLAMP-TYPE ADJUSTABLE SLIP-FITTERS WITH LOCKING SCREWS.

C. MATERIALS SHALL BE RUSTPROOF. LATCHES AND FITTINGS SHALL BE NON-FERROUS METAL.

SECTION 07 84 00 - FIRESTOPPING
1.01 GENERAL

E. ALL PENETRATIONS THROUGH FIRE TREATED FLOORS AND WALLS SHALL BE SEALED USING AN APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING AS REQUIRED BY NEC ARTICLE 300.21. FIRE STOPS SHALL BE PROVIDED AND INSTALLED AS REQUIRED BY NFPA AND LOCAL CODES.

2.01 PRODUCTS

A. THE SEALANT SHALL REMAIN SOFT AND PLIABLE TO ALLOW FOR THE REMOVAL AND/OR ADDITION OF CABLES WITHOUT THE NECESSITY OF DRILLING HOLES. IT SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF ANYTHING GOING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.

B. THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOSE STREAM TEST REQUIREMENTS OF ASTM E119-73 AND SHALL BE UL CLASSIFIED. THE SEALANT SHALL BE CHASE-FO-AM, CTC PR-855 FIRE RESISTANT FOAM SEALANT FROM CHASE TECH. CORP., HUNTINGTON STATION, NY 11746, OR EQUAL.

3.01 INSTALLATION

A. THE FOAM SEALANT SHALL BE CAPABLE OF BEING INSTALLED BY A SINGLE TRADESMAN.

B. WHEN DAMMING MATERIALS ARE TO BE LEFT IN PLACE AFTER THE SEAL IS COMPLETE, THEN ALL SUCH MATERIALS SHALL BE NONFLAMMABLE.

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Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Engineer of Record
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ELECTRICAL SPECIFICATIONS

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
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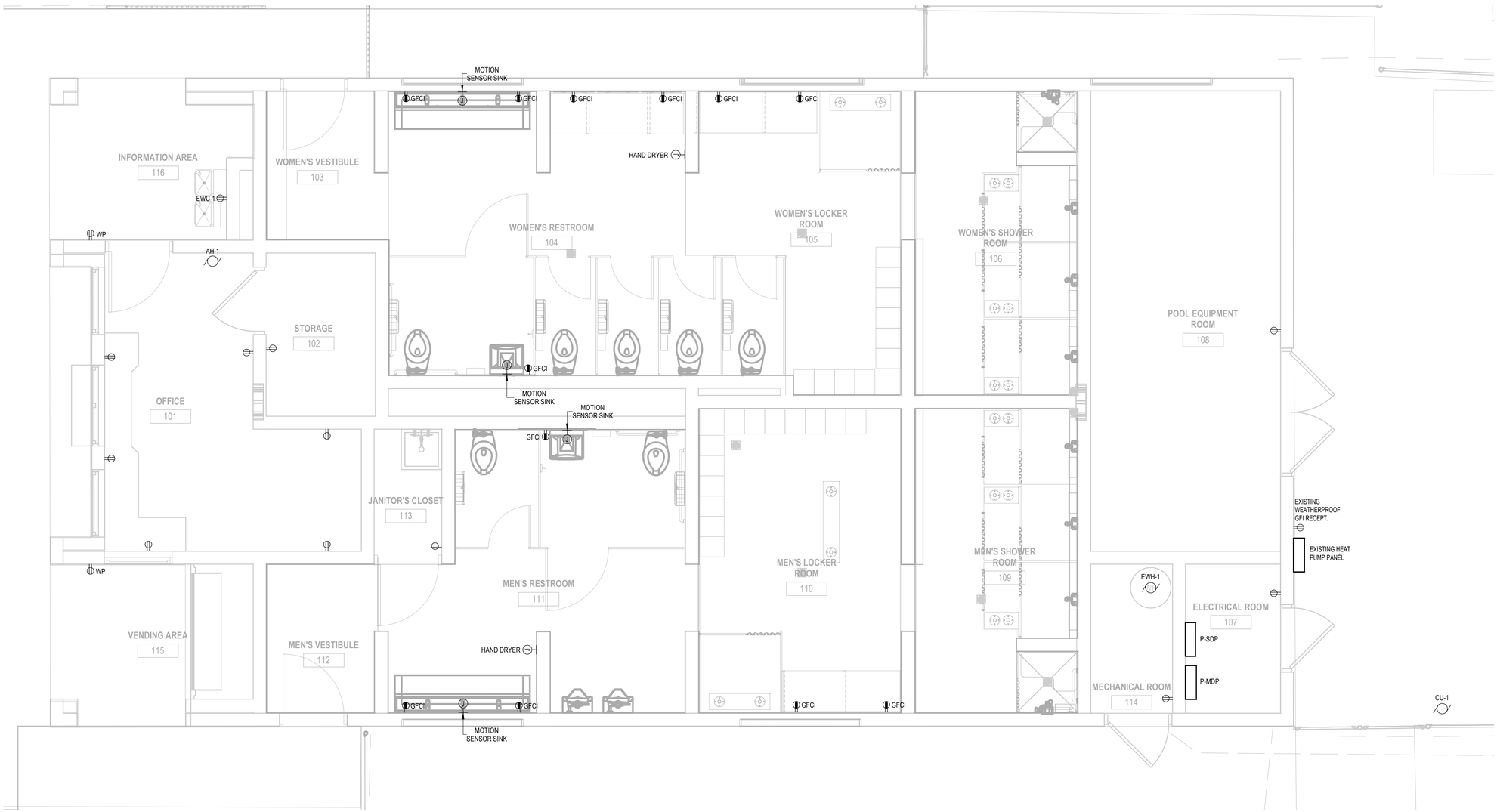
Sheet No.
E002

GENERAL NOTES

1. -----

KEY NOTES

1. -----



1 POWER FIRST FLOOR PLAN OVERALL

3/8" = 1'-0"

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FIRST FLOOR PLAN POWER

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
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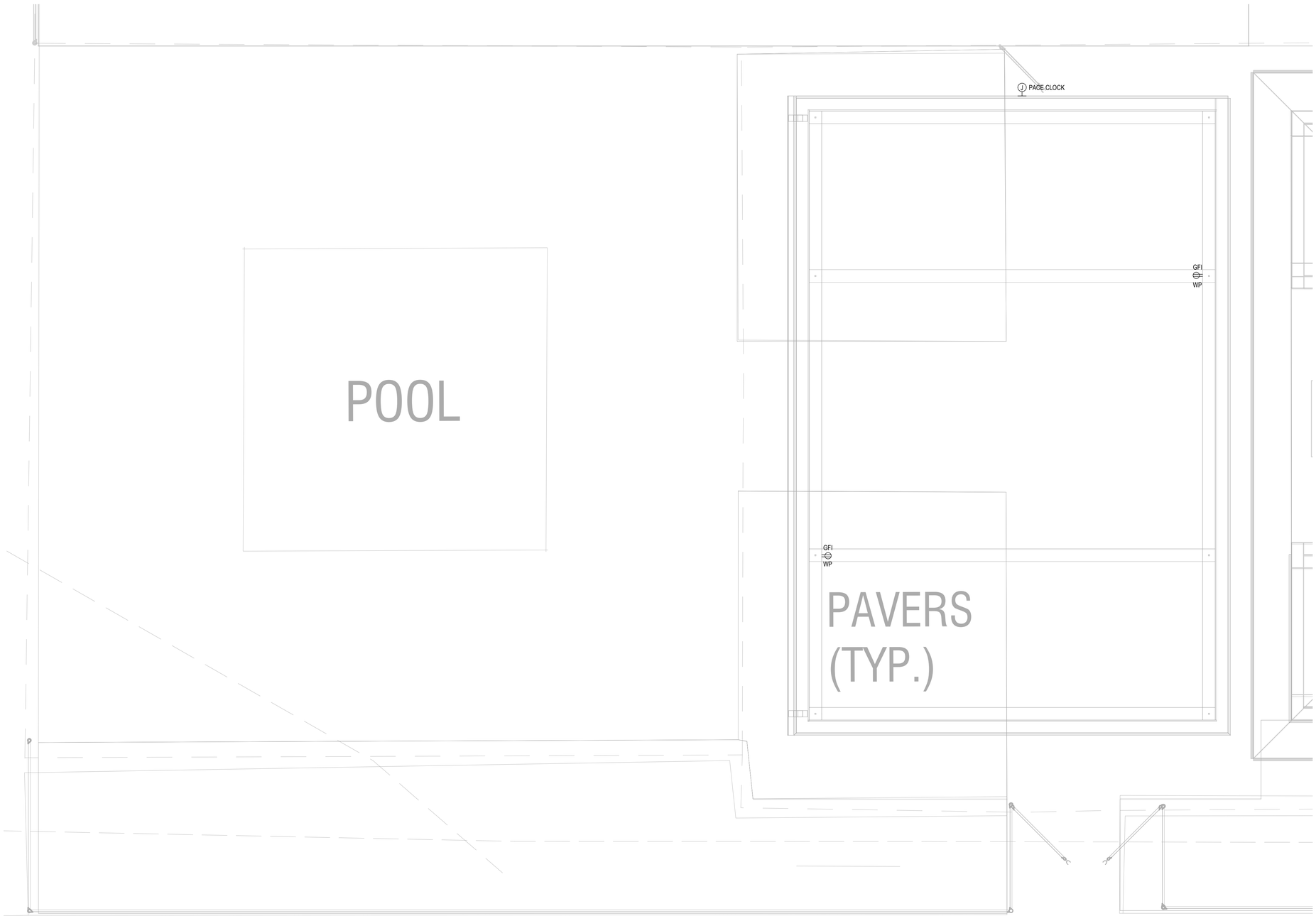
Sheet No.
E201



1 POWER FIRST FLOOR PLAN CANOPY

3/8" = 1'-0"

GENERAL NOTES

1. -----

KEY NOTES

1. -----

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POWER FIRST FLOOR PLAN CANOPY

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1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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Sheet No.
E202

GENERAL NOTES

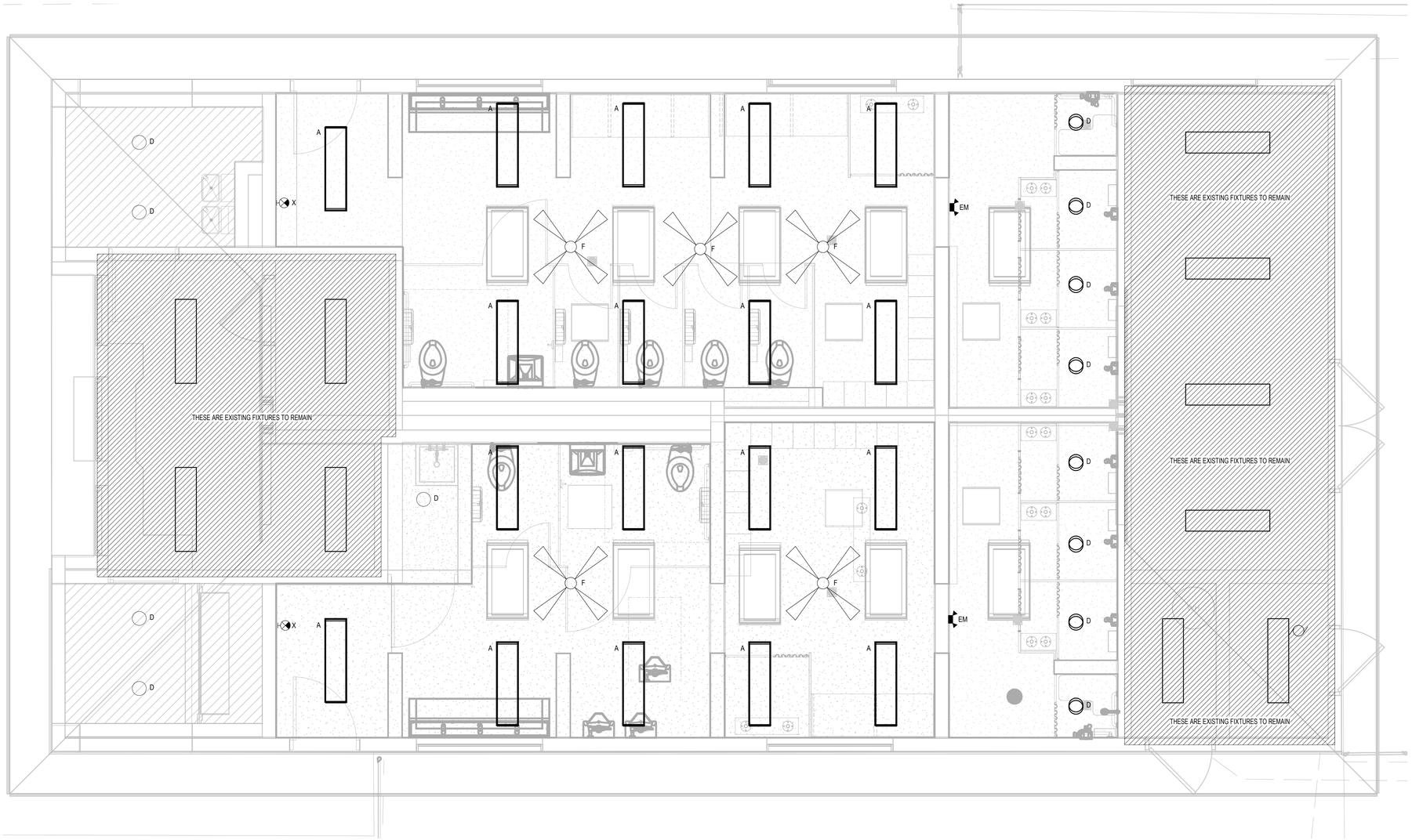
1. -----

KEY NOTES

1. -----

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	WATTS
A	1X4 LED RECESSED	SESCO	LP-1-4-L40-8-35-DFK-1248W-DIM-UNV	120 V	50 W
D	6" ROUND DOWNLIGHT RECESSED	SESCO	6DR-L20---8-35-DIM-UNV-S-W-OF-WH-WH-MWT-N-F1	120 V	35 W
EM	EMERGENCY WALL PACK	SESCO	EMER/W-GRAY-D-WETDRHL-P-GRAY-HL-MV	120 V	3 W
F	CEILING FAN 52" OUTDOOR, WET/DAMP LOCATION			120 V	50 W
X	EXIT SIGN	SESCO	EXIT/WET/CP-SF-R-WHT-EM-D	120 V	3 W



1 LIGHTING FIRST FLOOR CEILING PLAN OVERALL

3/8" = 1'-0"

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FIRST FLOOR CEILING PLAN LIGHTING

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
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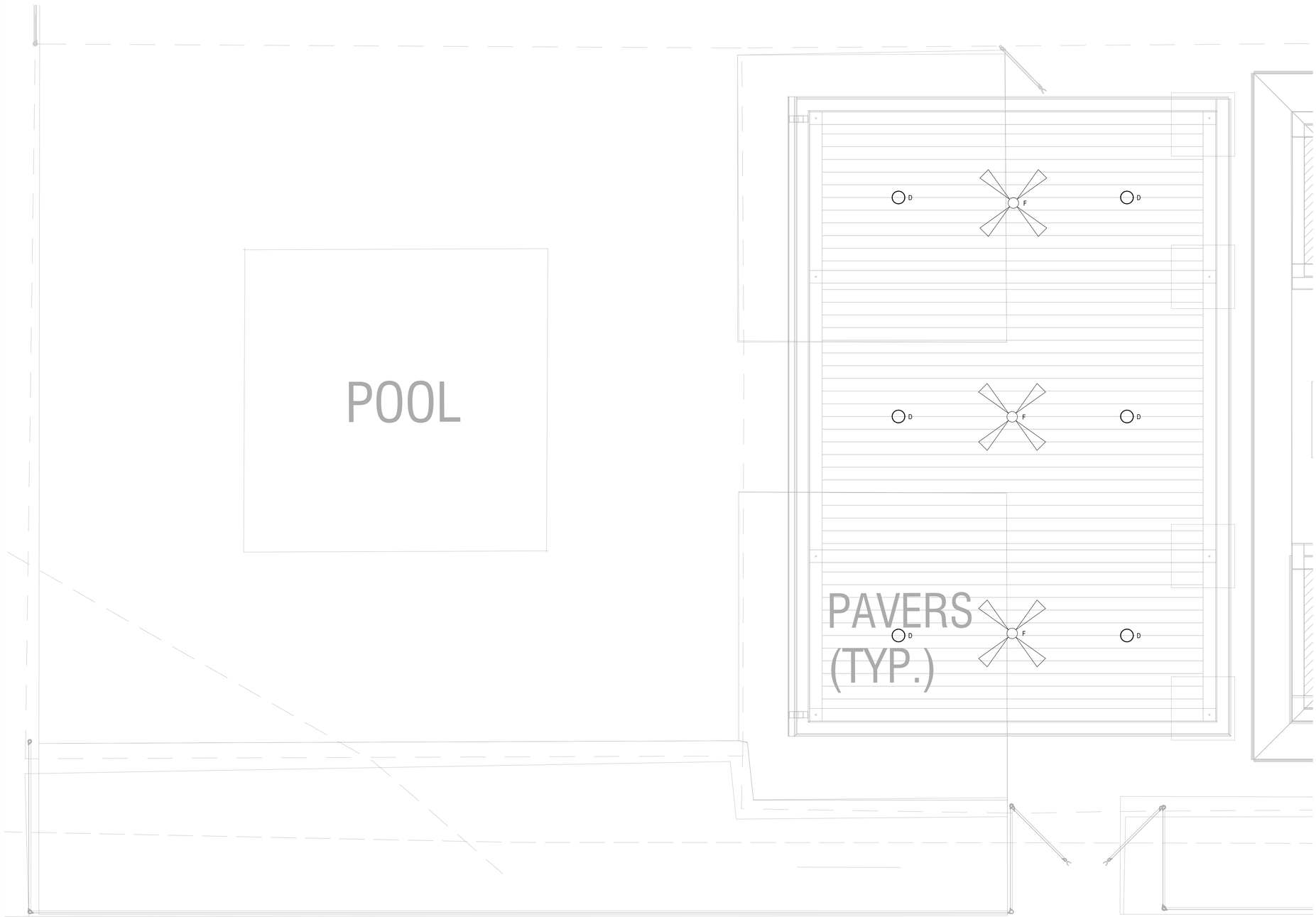
Sheet No.
E301



1 LIGHTING FIRST FLOOR CEILING PLAN CANOPY

3/8" = 1'-0"

GENERAL NOTES

1. *****

KEY NOTES

1. *****

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LIGHTING FIRST FLOOR CEILING PLAN CANOPY

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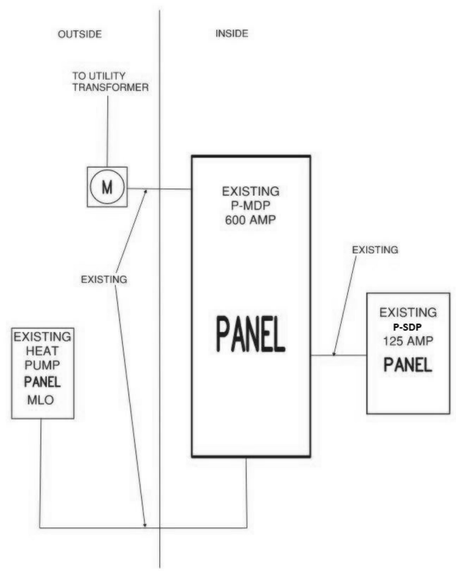
Sheet No.
E302



1 E501 ELECTRICAL ONE-LINE DIAGRAM

12" = 1'-0"

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ELECTRICAL RISER

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
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Sheet No.
E501

Branch Panel: P-MDP

Location: ELECTRICAL ROOM 107
Supply From:
Mounting: SURFACE
Enclosure: NEMA -1

Volts: 208Y/120V
Phases: 3
Wires: 4
Model:

A.I.C. Rating: 10K
Mains Type: M.C.B.
Mains Rating: 600 A
MCB Rating: 225 A

Notes	CKT	VD %	Wire Size	C. Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	C. Size	Wire Size	VD %	CKT	Notes
	1																			2	
	3																			4	
	5																			6	
	7																			8	
	9																			10	
	11																			12	
	13																			14	
	15																			16	
	17																			18	
	19																			20	
	21																			22	
	23																			24	
	25																			26	
	27																			28	
	29																			30	
	31																			32	
	33																			34	
	35																			36	
	37																			38	
	39																			40	
	41																			42	

Total Load:	0.0 kVA	0.0 kVA	0.0 kVA
Total Amps:	0 A	0 A	0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: HEAT PUMP...

Location:
Supply From:
Mounting: SURFACE
Enclosure: NEMA -1

Volts: 208Y/120V
Phases: 3
Wires: 4
Model:

A.I.C. Rating: 10K
Mains Type: M.L.O.
Mains Rating: 225 A

Notes	CKT	VD %	Wire Size	C. Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	C. Size	Wire Size	VD %	CKT	Notes
	1																			2	
	3																			4	
	5																			6	
	7																			8	
	9																			10	
	11																			12	
	13																			14	
	15																			16	
	17																			18	
	19																			20	
	21																			22	
	23																			24	

Total Load:	0.0 kVA	0.0 kVA	0.0 kVA
Total Amps:	0 A	0 A	0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: P-SDP

Location: ELECTRICAL ROOM 107
Supply From:
Mounting: SURFACE
Enclosure: NEMA-1

Volts: 240/120V
Phases: 1
Wires: 3
Model:

A.I.C. Rating: 10K
Mains Type: M.C.B.
Mains Rating: 125 A
MCB Rating: 125 A

Notes	CKT	VD %	Wire Size	C. Size	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	C. Size	Wire Size	VD %	CKT	Notes
	1																	2	
	3																	4	
	5																	6	
	7																	8	
	9																	10	
	11																	12	
	13																	14	
	15																	16	
	17																	18	
	19																	20	
	21																	22	
	23																	24	

Total Load:	0.0 kVA	0.0 kVA
Total Amps:	0 A	0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

cph
www.cphcorp.com
A Full Service A & E Firm
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SANFORD, FLORIDA 32771
Ph:(407) 322-6841

Plans Prepared By :
CPH, Inc.

State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Engineer of Record
##/##/2021
TBD-Elec License
CPH, INC.

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	CPH
Drawn:	CPH
Checked:	CPH
Job No.:	M7030.1
10/22/2021	© 2021

PANEL SCHEDULES

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

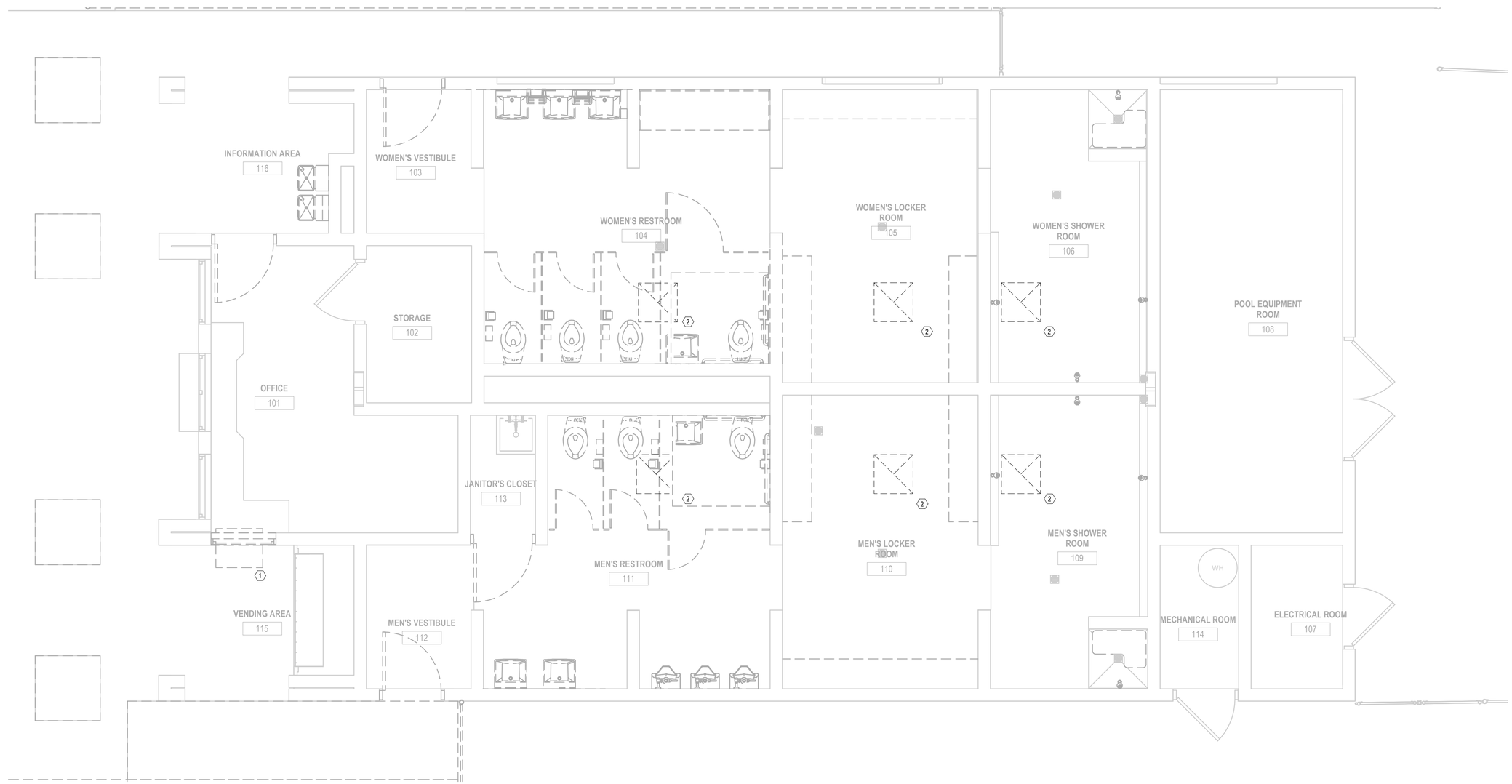
Sheet No.
E601

GENERAL NOTES

1. ----

KEY NOTES

1. REMOVE AND DISCARD EXISTING AIR CONDITIONINER WINOW UNIT; WINDOW TO REMAIN, RESTORE TO ORIGINAL CONDITION
2. DEMOLISH EXISTING EXHAUS GRILLES TO BE REPLACED. PROTECT DUCTWORK AND APPURTENANCES FOR ADJUSTMENT AND INSTALLATION IN RENOVATION PHASE.



1 DEMOLITION FIRST FLOOR PLAN DUCTWORK

3/8" = 1'-0"

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DEMOLITION FIRST FLOOR PLAN DUCTWORK

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
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Sheet No.
MD201

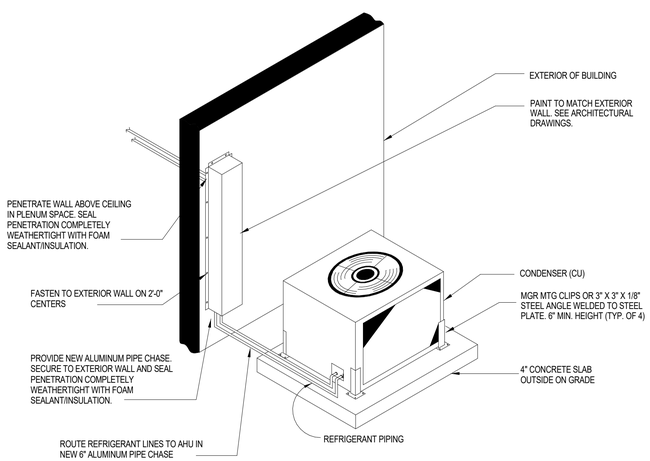
MECHANICAL DRAWING INDEX

SHEET	NAME
M000	MECHANICAL LEGEND
M001	MECHANICAL SPECIFICATIONS
M201	FIRST FLOOR PLAN DUCTWORK
MD201	DEMOLITION FIRST FLOOR PLAN DUCTWORK

MECHANICAL EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	COOLING AT 95F			MAXIMUM HEAT CAPACITY AT 17 F (BTU/H)	EFFICIENCY		ELECTRICAL				MCA (A)	REFRIGERANT	REMARKS
			RATED CAPACITY (BTU/HR)	MINIMUM CAPACITY (BTU/HR)	SENSIBLE HEAT FACTOR		SEER	HSPF	VOLTAGE	PHASE	FREQUENCY	RECOMMENDED FUSE/BREAKER SIZE (A)			
AHU-1	MITSUBISHI ELECTRIC	PKA-A12HA7	12,000	5,800	.81	11,100	20.8	10.2	208/230	1	60 Hz	15	11	R410A	1,2
CU-1	MITSUBISHI ELECTRIC	PUZ-A12NKA7	12,000	5,800	.81	11,100	20.8	10.2	208/230	1	60 Hz	15	11	R410A	1,2

NOTES:
1. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT
2. SUPPLY X87-721 BLUE DIAMOND (ADVANCED) MINI CONDENSATE PUMP WITH RESERVOIR & SENSOR (208/230V)



1 CONDENSING UNIT MOUNTING DETAIL
NTS

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MECHANICAL LEGEND

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Sheet No.
M000

GENERAL:

DRAWINGS AND GENERAL CONDITIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTAL CONDITIONS AND DIVISION 1 SPECIFICATIONS APPLY TO WORK SPECFIED IN THIS SECTION.

SCOPE OF WORK

WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

PROVIDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED FOR THE FABRICATION AND INSTALLATION OF MECHANICAL SYSTEMS INCLUDING HEATING, VENTILATING, AIR CONDITIONING AND MISCELLANEOUS SYSTEMS AS INDICATED ON THE DESIGN DRAWINGS AND AS OUTLINED IN THESE SPECIFICATIONS.

RELATED WORK SPECIFIED ELSEWHERE

REFER TO ELECTRICAL SPECIFICATION FOR ELECTRICAL WORK TO BE DONE IN CONJUNCTION WITH THE MECHANICAL WORK. THIS CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, WIRING, JUNCTION BOXES, ETC., REQUIRED FOR HVAC CONTROLS.

INSTALL DUCT SMOKE DETECTOR FURNISHED BY DIVISION 23 IN SUPPLY AIR DUCTS OF AIR HANDLING UNITS EXCEEDING 2000CFM AND WHERE INDICATED ON DRAWINGS. DETECTOR TO SHUT UNIT DOWN WHEN ACTIVATED.

SUBSTITUTIONS

EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DESIGN DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS "SPECIFIED STANDARD" OF QUALITY. NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

ANY DEVIATION FROM SPECIFIED EQUIPMENT THAT AFFECTS THE ELECTRICAL REQUIREMENTS SHALL BE COORDINATED BY THE MECHANICAL CONTRACTOR AND EQUIPMENT VENDOR WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING BIDS. FAILURE OF MECHANICAL CONTRACTOR AND VENDOR TO DO SO WILL NOT BE CAUSE FOR CHANGE OF BID AT A LATER TIME. IT WILL NOT BE THE ELECTRICIAN'S RESPONSIBILITY TO COORDINATE REVISED ELECTRICAL REQUIREMENTS DUE TO EQUIPMENT CHANGES INITIATED BY THE MECHANICAL CONTRACTOR AND VENDOR. IN ADDITION, THE MECHANICAL CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY AND ALL CHANGES TO ENGINEERING PLANS REQUIRED BY AUTHORITY HAVING JURISDICTION.

CODES AND STANDARDS

THE ENTIRE SYSTEM AND ALL COMPONENTS LISTED HEREIN SHALL MEET ALL STATE, COUNTY, AND LOCAL CODES AND ORDINANCES IN EVERY RESPECT.

THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL FEES.

PRODUCTS

ALL EQUIPMENT, ETC., SHALL BE NEW UNLESS OTHERWISE NOTED, AND AS SPECIFIED FREE OF DEFECTS AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THESE SPECIFICATIONS. ALL ELECTRICAL POWERED EQUIPMENT SHALL BE U.L. OR E.T.L. LISTED.

WORKMANSHIP

ALL MATERIALS SHALL BE FABRICATED AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER WITH THE COORDINATION OF ALL INVOLVED TRADES TO AVOID INTERFERENCES AND DELAY DUE TO LACK OF COORDINATION. NO ALLOWANCES WILL BE MADE FOR REWORK DUE TO COORDINATION DIFFICULTIES OR INTERFERENCES BETWEEN INVOLVED TRADES.

SHOP DRAWINGS AND SUBMITTALS

SUBMIT FOR ENGINEER'S APPROVAL, SHOP DRAWINGS, AND MANUFACTURER'S DATA FOR ALL NEW EQUIPMENT AND ACCESSORIES PRIOR TO PURCHASE AND OR FABRICATION.

SHOP DRAWINGS FOR EQUIPMENT REQUIRING ELECTRIC POWER OR CONTROL WIRING CONNECTIONS SHALL INCLUDE COMPLETE WIRING DIAGRAMS

SUBMITTAL PACKAGE FOR HVAC EQUIPMENT SHALL ALSO INCLUDE QUALIFICATIONS AND CERTIFICATIONS OF PROPOSED TEST AND BALANCE SUBCONTRACTOR. HVAC SUBMITTALS WILL NOT BE REVIEWED WITHOUT TEST AND BALANCE DOCUMENTATION. QUALIFICATIONS OF MULTIPLE TEST AND BALANCE CONTRACTORS IS ACCEPTABLE (TO ACCOMPLISH COMPETITIVE BIDDING OF WORK).

AS-BUILTS

CONTRACTOR SHALL PROVIDE THE ENGINEER TWO (2) SETS OF COMPLETE HVAC AS-BUILT DRAWINGS AT THE TIME OF SUBSTANTIAL COMPLETION. AS BUILTS SHALL BE PROVIDED AS AUTOCAD DRAWING FILES [RELEASE 2013]. AS-BUILT DRAWINGS SHALL CONSIST OF AN ACCURATE "AS-BUILT" RECORD OF THE INSTALLED WORK. PROJECT WILL NOT BE COMPLETE UNTIL ACCURATE AS-BUILTS ARE DELIVERED.

ACCESS DOORS

CONTRACTOR SHALL PROVIDE HINGED ACCESS DOORS (MIN. 12"X12") FOR DAMPERS, VALVES, ETC. WHERE FLOORS, WALLS, AND CEILINGS MUST BE PENETRATED TO ACCESS MECHANICAL SYSTEMS. FINISH SHALL BE COORDINATED THROUGH ARCHITECT TO MATCH SURROUNDING FINISHES. FIRE RATED ACCESS DOORS IN FIRE RATED WALLS OR CEILINGS SHALL BEAR A U.L. LABEL FOR FIRE RATING REQUIRED.

EXECUTION

[COORDINATE AND SCHEDULE THE WORK WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE NORMAL OPERATIONS AT THE BUILDING.]

ALL LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., INDICATED ON THE DRAWINGS IS DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE PLANS SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER TRADES. ALL WORK SHALL BE INSTALLED TO INSURE MAXIMUM HEADROOM, BALANCED OPERATION AND SUITABLE AESTHETIC APPEARANCE. CONTRACTOR IS RESPONSIBLE FOR ANY FIELD MEASUREMENTS REQUIRED TO PROVIDE AN APPROVED AND FUNCTIONAL INSTALLATION.

COORDINATE WITH OTHER TRADES AND FIELD VERIFY EXISTING CONDITIONS FOR EXACT LOCATION AND ROUTING OF SYSTEMS. PROVIDE OFFSETS, TRANSITIONS AND ADAPTORS AS REQUIRED.

NOT ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION ARE SHOWN ON THESE DRAWINGS. REFER TO EQUIPMENT INSTALLATION INSTRUCTION, SCHEDULES AND APPLICABLE CODES FOR ADDITIONAL INFORMATION, INCLUDING REQUIRED CONNECTION LOCATIONS, TYPES AND SIZES. PROVIDE ISOLATION VALVES AND UNIONS AT ALL EQUIPMENT AND AS INDICATED ON DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ADEQUATE AND PROPER INSULATION AND MOISTURE-SEAL IN A MANNER THAT WILL PERMANENTLY PREVENT THE ACCUMULATION OF ANY OBJECTIONABLE MOISTURE ON THE EXTERIOR OF AIR-CONDITIONING UNITS, REFRIGERANT-PIPING, CONDENSATE DRAIN PIPING, AIR DUCTS OR OTHER PARTS OF THE SYSTEM. HE SHALL CORRECT THE CAUSE OF ANY CONDENSATION AND FULLY REPAIR, WITHOUT COST TO THE OWNER, ANY DAMAGES TO BUILDING SURFACES, FURNISHINGS OR EQUIPMENT CAUSED BY CONDENSATION FROM THIS SYSTEM, FOR THE FULL PERIOD OF THE GUARANTEE.

PERFORM ALL WORK NECESSARY TO PREPARE THE STRUCTURE FOR THE INSTALLATION OF THE WORK. ALL HOLES, OPENINGS AND DAMAGED MATERIALS CREATED DURING CONSTRUCTION SHALL BE REPAIRED AND FINISHED BY EXPERIENCED WORKMEN.

PROVIDE ALL ROOF, WALL AND FLOOR PENETRATIONS REQUIRED TO COMPLETE INSTALLATION AND REMOVAL OF WORK (MAINTAIN FIRE RATING OF EXISTING STRUCTURE). ALL PENETRATIONS SHALL BE PATCHED AND FINISHED TO MATCH SURROUNDING SURFACES AND FINISHES. ALL EQUIPMENT OR PIPE PENETRATIONS THROUGH WALL, ROOF AND FLOORS SHALL BE SLEEVED AND SEALED SO AS TO BE WATER AND AIR TIGHT.

ALL ROOF CUTS AND REPAIRS SHALL BE PERFORMED BY OWNER APPROVED ROOFING CONTRACTOR IN ORDER TO MAINTAIN ROOF WARRANTY.

CLEANING, TESTING AND ADJUSTING:

THE MECHANICAL CONTRACTOR, AT HIS EXPENSE, SHALL CLEAN, REPAIR, ADJUST, CHECK, BALANCE, AND PLACE IN SERVICE THE VARIOUS SYSTEMS HEREIN SPECIFIED WITH THEIR RESPECTIVE EQUIPMENT, ACCESSORIES AND PIPING. HE SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND TOOLS REQUIRED TO PERFORM TESTS REQUIRED BY THESE SPECIFICATIONS AND BY THE GOVERNING AUTHORITIES.

NO WORK SHALL BE COVERED OR CONCEALED UNTIL PROPERLY INSPECTED AND TESTED.

EXCAVATION AND BACKFILL:

PROVIDE ALL EXCAVATION AND TRENCHING TO THE CORRECT ELEVATIONS, FOR THE INSTALLATION OF ALL PIPING, VALVE, VALVE PITS AND FOUNDATIONS INCLUDED UNDER THIS DIVISION OF THE WORK.

[PROVIDE ALL BACKFILL AND COMPACTION IN STRICT ACCORDANCE WITH THE EXCAVATION AND BACKFILL SECTION OF DIVISION 1 SPECIFICATIONS.]

TESTING:

CONDENSATE DRAINS SHALL BE TESTED BY TEMPORARILY PLUGGING ALL OUTLETS AND FILLING THE SYSTEM WITH WATER TO THE LEVEL OF THE HIGHEST VENT STACK. THE SYSTEM MUST BE INSPECTED AND ALL LEAKS REPAIRED AND THE TEST REPEATED UNTIL THE WATER LEVEL DOES NOT DECREASE FOR A PERIOD OF 24 HOURS.

ADJUST THE AIR CONDITIONING SYSTEMS, VENTILATING SYSTEMS, FANS, ETC., TO DELIVER NOT LESS THAN THE REQUIRED AIR QUANTITY WITH QUANTITIES IN EXCESS TO BE SUBJECT TO THE APPROVAL OF THE ENGINEER IF FOUND TO NOT HAVE OBJECTIONABLE EFFECTS SUCH AS NOISE, DRAFTS, OR MOTOR OVERLOAD.

PRIOR APPROVAL BY THE ENGINEER OF TESTING AND BALANCING CONTRACTOR IS REQUIRED. SEE SHOP DRAWINGS AND SUBMITTAL SECTION. TEST AND BALANCE REPORTS BY NON-APPROVED CONTRACTORS WILL BE REJECTED.

THIS CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT IN ELECTRONIC FORMAT (PDF) TO THE ENGINEER AT TIME OF SUBSTANTIAL COMPLETION INSPECTION. THE TEST AND BALANCE REPORT SHALL BE PREPARED BY A CONTRACTOR CERTIFIED BY ASSOCIATED AIR BALANCE COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU

THE TEST AND BALANCE REPORT SHALL BE TYPEWRITTEN AND CONTAIN THE FOLLOWING DATA:

1. DATE, TIME, WEATHER, WHEN TEST TAKEN.
2. AIR CAPACITIES AT EACH UNIT INCLUDING OUTSIDE AIR. (ENTERING AND LEAVING DB/WB)
3. STATIC PRESSURE THROUGH UNITS AND UNIT COMPONENTS.
4. MOTOR OPERATING VOLTAGE AND AMPERAGE.
5. DRIVE TYPES, SIZES AND SPEED RANGE.
6. IDENTIFICATION OF ALL AIR TERMINAL DEVICES WITH DESIGN CFM AND ACTUAL CFM.

ADDITIONALLY, SYSTEMS DRAWINGS CLEARLY MARKED TO IDENTIFY LOCATION OF EQUIPMENT AND AIR DEVICES TESTED SHALL BE PROVIDED ALONG WITH THE WRITTEN TEST AND BALANCE REPORT.

MAINTENANCE MANUALS

PROVIDE COMPLETE MAINTENANCE MANUALS (3 REQUIRED) ON ALL NEW EQUIPMENT. ORGANIZE OPERATING AND MAINTENANCE DATA INTO SUITABLE SETS OF MANAGEABLE SIZE. BIND PROPERLY INDEXED DATA IN INDIVIDUAL, HEAVY-DUTY, 2-INCH, 3-RING VINYL-COVERED BINDERS WITH POCKET FOLDERS FOR FOLDED SHEET INFORMATION. MARK APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER. INCLUDE THE FOLLOWING TYPES OF INFORMATION. THE INFORMATION WILL BE TURNED OVER TO THE OWNER AT TIME OF SUBSTANTIAL COMPLETION:

- OPERATING AND MAINTENANCE INSTRUCTIONS
- SPARE PARTS LIST
- COPIES OF WARRANTIES
- WIRING DIAGRAMS
- INSPECTION REPORTS & APPROVALS
- SHOP DRAWINGS AND PRODUCT DATA
- TEST AND BALANCE INFORMATION

TRAINING SERVICES

THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION OF ALL EQUIPMENT FURNISHED AND LOCATION OF ALL VALVES AND CONTROL DEVICES.

TRAIN BUILDING OWNER'S PERSONNEL DURING NORMAL WORKING HOURS ON START-UP AND SHUT-DOWN PROCEDURES, TROUBLESHOOTING PROCEDURES, SERVICING AND PREVENTATIVE MAINTENANCE SCHEDULE AND PROCEDURES. REVIEW WITH THE OWNER'S PERSONNEL, THE DATA CONTAINED IN THE OPERATING AND MAINTENANCE MANUALS. SCHEDULE TRAINING WITH OWNER, PROVIDE AT LEAST 7-DAYS PRIOR NOTICE TO ARCHITECT/ENGINEER.

SYSTEM IDENTIFICATION

PROVIDE IDENTIFICATION LABELS ON OR NEAR EACH PIECE OF MAJOR EQUIPMENT AND EACH OPERATIONAL DEVICE AND DISCONNECT. THE LABELS SHALL BE CONSTRUCTED OF ENGRAVED PLASTIC LAMINATE SIGN OR PLASTIC EQUIPMENT MARKER PERMANENTLY SECURED TO EQUIPMENT. THE LETTERING SHALL BE A MINIMUM OF 1/2 INCH HIGH FOR EQUIPMENT NAME AND 3/8 INCH FOR EQUIPMENT INFORMATION.

HANGERS AND SUPPORTS

PROVIDE ALL NECESSARY DUCTWORK, PIPE SUPPORTS, HANGER, RODS, CLAMPS AND ATTACHMENTS TO PROPERLY INSTALL AND SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM THE BUILDING STRUCTURE.

PROVIDE ANY ANGLE IRON OR UNISTRUT AND SUSPENSION RODS REQUIRED TO INSTALL EQUIPMENT, PIPING AND DUCTWORK.

ALL SUPPORTS EXPOSED TO OUTDOORS SHALL BE CLEANED, PRIMED AND PAINTED TO PREVENT RUSTING. FINISH COLOR AS SELECTED BY OWNER.

THE USE OF BALING WIRE OR PERFORATED METAL STRAPPING IS NOT ACCEPTABLE FOR SUPPORTS.

WARRANTY/GUARANTEE:

THE CONTRACTOR SHALL WARRANTY/GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION OF THE PERIOD OF ONE (1) YEAR.

DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE OWNER AND ARCHITECT AND ENGINEER. SUCH RECONSTRUCTION AND REPAIRS SHALL INCLUDE ALL DAMAGE TO THE FINISH OR FURNISHING OF THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS THERETO.

HEATING/VENTILATING/AIR CONDITIONING SPECIFICATIONS

SCOPE OF WORK

FURNISH AND INSTALL COMPLETE AIR CONDITIONING SYSTEMS AS INDICATED ON THE DESIGN DRAWINGS AND AS OUTLINED WITHIN THESE SPECIFICATIONS. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FABRICATION AND/OR INSTALLATION OF THE SCHEDULED AIR CONDITIONING UNITS, EXHAUST FANS, AIR DISTRIBUTION AND DUCTWORK.

EQUIPMENT:

[AIR CONDITIONING UNITS:]

UNITS SHALL BE SPLIT SYSTEM AIR-TO-AIR ELECTRIC HEAT PUMPS AS SCHEDULED ON THE DESIGN DRAWINGS.

TOTAL COOLING CAPACITY OF THE UNITS SHALL BE AS SCHEDULED ON DRAWINGS.

REFRIGERATION SYSTEM - THE UNITS SHALL CONTAIN HERMETIC COMPRESSORS WITH SERVICE VALVES AND VIBRATION ISOLATION. UNITS SHALL HAVE CAPACITY REDUCTION STEPS WHERE INDICATED ON EQUIPMENT SCHEDULE.

SAFETY CONTROLS - COOLING SYSTEM SHALL BE PROTECTED BY: LOSS OF CHARGE PROTECTION, HIGH AND LOW PRESSURESTAT, COMPRESSOR MOTOR OVERLOADS, AND A TIMING DEVICE WHICH WILL PROHIBIT THE COMPRESSOR MOTOR FROM BEING SUBJECTED TO A STARTING CURRENT MORE THAN ONCE EVERY FIVE MINUTES.

CONTROLS - PROVIDE WALL MOUNTED, HEAT/COOL ON-OFF-AUTO THERMOSTAT.

WARRANTY:

PROVIDE A ONE (1) YEAR WARRANTY ON THE COMPLETE SYSTEM AND AN ADDITIONAL FOUR (4) YEAR FACTORY WARRANTY ON ALL COMPRESSORS. LOSS OF REFRIGERANT WILL BE REPLACED AT NO COST TO OWNER FOR A PERIOD OF ONE (1) YEAR.

CONDENSATE DRAINS: PVC. ROUTE AS INDICATED ON PLANS. INSULATE WITH 1/2" ARMAFLEX INSULATION RATED FOR PLENUM APPLICATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

REFRIGERATION PIPING:

ALL WORK DESCRIBED IN THIS SECTION SHALL BE PERFORMED ONLY BY SKILLED REFRIGERATION MECHANICS.

REFRIGERATION PIPING SHALL BE FIELD FABRICATED.

WORKMANSHIP ON THESE SYSTEMS MUST BE GOOD, AND CLEANLINESS OF THE PIPING SYSTEMS IS MANDATORY. WORK THAT DOES NOT MEET THESE CRITERIA SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER. THE ENGINEER SHALL DETERMINE WHETHER THE WORK MEETS THIS CRITERIA.

PIPING SHALL BE ASTM B280 MUELLER STREAMLINE ACR OR READING HARD DRAWN FACTORY SEALED NITROGEN CHARGED SPECIAL REFRIGERATION DUTY COPPER TUBING. FITTINGS SHALL BE MUELLER OR NIBCO WROUGHT COPPER LONG RADIUS REFRIGERATION TYPE.

REFRIGERANT PIPING BELOW GRADE SHALL BE ROUTED IN MINIMUM 4" DIAMETER PVC PIPE SLEEVES TO EACH CONDENSING UNIT. ALL UNDERGROUND REFRIGERANT PIPING SHALL BE CONTINUOUS SOFT-DRAWN TUBING WITH NO UNDERGROUND JOINTS ALLOWED. REFRIGERANT PIPE SIZES SHALL BE SIZED PER A/C EQUIPMENT MANUFACTURER'S RECOMMENDATION BASED ON LENGTH OF RUN BETWEEN CONDENSING UNITS AND AHU'S.

SOLDER SHALL BE 4% SILVER/96% TIN WITH MELTING POINT OF 430F WITH TENSILE STRENGTH OF 14,000 PSI AND SHEAR STRENGTH OF 10,600 PSI, BRIGHT SILVER NON-OXIDIZING COLOR. 95-5 SOLDER WILL NOT BE PERMITTED. DO NOT BRAZE. J.W. HARRIS "STAY-BRITE" AND ENGELHARD "BRAZE-IT 430" ARE ACCEPTABLE.

FILL PIPING WITH OIL PUMPED DRY NITROGEN DURING ALL SOLDERING OPERATIONS.

BUILD UP 20 PSIG IN SYSTEM WITH R-410A AND THEN INCREASE PRESSURE TO 150 PSIG IN SYSTEM WITH R-410A AND THEN INCREASE PRESSURE TO 150 PSIG IN SUCTION PIPING WITH 350 PSIG IN HIGH SIDE PIPING WITH DRY NITROGEN. TAP ALL FITTINGS WITH RUBBERED MALLET. LEAK TEST WITH HALIDE TORCH. REPAIR ANY LEAKS DISCOVERED BY COMPLETELY REMAKING THE LEAKING JOINTS. REPEAT PROCEDURE UNTIL SYSTEM IS PROVEN TIGHT FOR A 24 HOUR PERIOD.

BLEED OFF PRESSURE AND EVACUATE SYSTEM TO .1" HG ABSOLUTE, MEASURING SAME WITH ZIMMERLI VACUUM GAUGE OR MANOMETER. BREAK VACUUM BY INJECTING R-410A INTO SYSTEM AT FARTHEST POINT IN PIPING FROM COMPRESSOR. RE-EVACUATE TO .1" HG ABSOLUTE. SYSTEM MUST HOLD THIS VACUUM FOR 15 MINUTES. REPAIR LEAKS AS REQUIRED UNTIL IT DOES. CHARGE SYSTEM WITH PROPER QUANTITY OF REFRIGERANT.

COVER ALL SUCTION PIPING (INDOORS AND OUTDOORS), FITTINGS, VALVES, ETC., CONTINUOUS THROUGH SLEEVES, HANGERS, ETC., WITH .75" AP/ARMAFLEX. INSTALLATION SHALL BE CONDENSATION-FREE, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PAINT ALL INSULATION EXPOSED TO OUTDOORS WITH UV PROTECTIVE PAINT PER MANUFACUTRERS RECOMMENDATIONS.

PIPE HANGERS, WHERE NEEDED, SHALL BE GRINNELL #260 CLEVIS TYPE, 5'-0" ON CENTER, SECURELY ATTACHED TO BUILDING CONSTRUCTION.

PIPE SUPPORT: ATTACH LINES SECURELY ALONG PAD/FLOOR/EQUIPMENT/ STRUCTURE TO PREVENT MOVEMENT. SUPPORT IN A MANNER THAT LINES DO NOT HANG FROM EVAPORATOR CONNECTIONS OR BLOCK ACCESS TO FILTERS, CONTROLS, ETC.

TRAP OIL IN SUCTION LINE AT EVAPORATOR COIL. NO OTHER COIL TRAPS PERMITTED. PROVIDE SUCTION RISERS, CHECK VALVES, SOLENOID VALVES, OR OTHER DEVICES REQUIRED IN PIPING SYSTEM BY MANUFACTURERS INSTALLATION INSTRUCTIONS.

FURNISH ALL LABOR AND MATERIALS TO REPLACE REFRIGERANT LOST DURING THE ONE YEAR WARRANTY PERIOD.
DUCTWORK:

MATERIALS: GALVANIZED STEEL (G-90) OF GAUGES CONFORMING TO LATEST EDITION OF SMACNA STANDARDS BASED ON THE FOLLOWING PRESSURE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

(DESIGNER TO VERIFY STATIC PRESSURE RATINGS WITH ACTUAL EQUIPMENT AND SYSTEMS BEING PROVIDED)

1. EXHAUST AIR: 1" W.G. POSITIVE/NEGITIVE PRESSURE

ALL DIMENSIONS ARE INSIDE NET FREE AREA.

PROVIDE A COMPLETE CONTROL SYSTEM INCLUDING ALL WIRING, CONTROLS AND BOXES.

ELECTRICAL

PROVIDE ALL 24 VOLT WIRING BETWEEN CONTROL DEVICES AS NECESSARY TO MAKE COMPLETE AND OPERATIONAL SYSTEM. PROVIDE 110/24 VAC TRANSFORMERS AS REQUIRED. COORDINATE WITH DIVISION 16 FOR 120V POWER ROUGH-IN, CONTROL POWER AND WIRING. 24 VOLT WIRING SHALL BE PLENUM RATED CABLE.

SEQUENCE OF OPERATION

THE SYSTEM SHALL CONTROL SPACE TEMPERATURE SET POINTS BY CYCLING COMPRESSORS ON-OFF.

THE SYSTEM WILL INCORPORATE SPACE THERMOSTATS/SENSORS WITH ADJUSTABLE SET POINTS AND MANUAL OVERRIDE TO TURN THE SYSTEM "ON" FOR A PREDETERMINED PERIOD.

SPLIT SYSTEM AIR CONDITIONING

OCCUPIED MODE:

- AIR HANDLER CYCLES WITH COMPRESSOR
- COMPRESSOR START-STOP TO MAINTAIN SPACE TEMPERATURE.

UNOCCUPIED MODE:

- ADJUSTABLE UNOCCUPIED MODE SETBACK TEMPERATURE: UNIT CYCLES AND TO MAINTAIN SETTINGS

[VIBRATION ISOLATION:]

ALL BLOWER UNITS AND VIBRATING TYPE EQUIPMENT SHALL BE PROPERLY FITTED WITH MASON INDUSTRIES VIBRATION ISOLATION EQUIPMENT SIZED IN ACCORDANCE WITH EQUIPMENT WEIGHT AND DUTY.

IN-LINE FANS

SIZE AND TYPE AS SHOWN ON DRAWINGS. ALUMINUM HOUSING OR STEEL PHOSPHATIZED AND PAINTED. DIRECT DRIVE OR BELT DRIVE AS INDICATED. FANS AND MOTORS SHALL HAVE BALL BEARINGS LUBRICATED FOR LIFE. MOTOR AND DRIVE SHALL BE ACCESSIBLE WITHOUT DISTURBING DUCTWORK. MOTOR SHALL BE OUT OF AIR STREAM. FURNISH WITH PREWIRED DISCONNECT SWITCH. FURNISH MOTORS 3/4 HP AND BELOW WITH INTERNAL THERMAL OVERLOAD PROTECTION, MOTORS ABOVE 3/4 HP SHALL BE FURNISHED WITHOUT INTERNAL OVERLOAD PROTECTION.

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Plans Prepared By :
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State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143

Engineer of Record
##/##/2021
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CELEBRATING 40 +YEARS cph

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MECHANICAL SPECIFICATIONS

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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Sheet No.
M001

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

TAG	TYPE	BASIS OF DESIGN	MODEL	AIR FLOW	FACE SIZE	NECK SIZE	NOTES
EG-1	CEILING EXHAUST GRILLE	TITUS	25RL	MATCH EXISTING	24X24	MATCH EXISTING	1

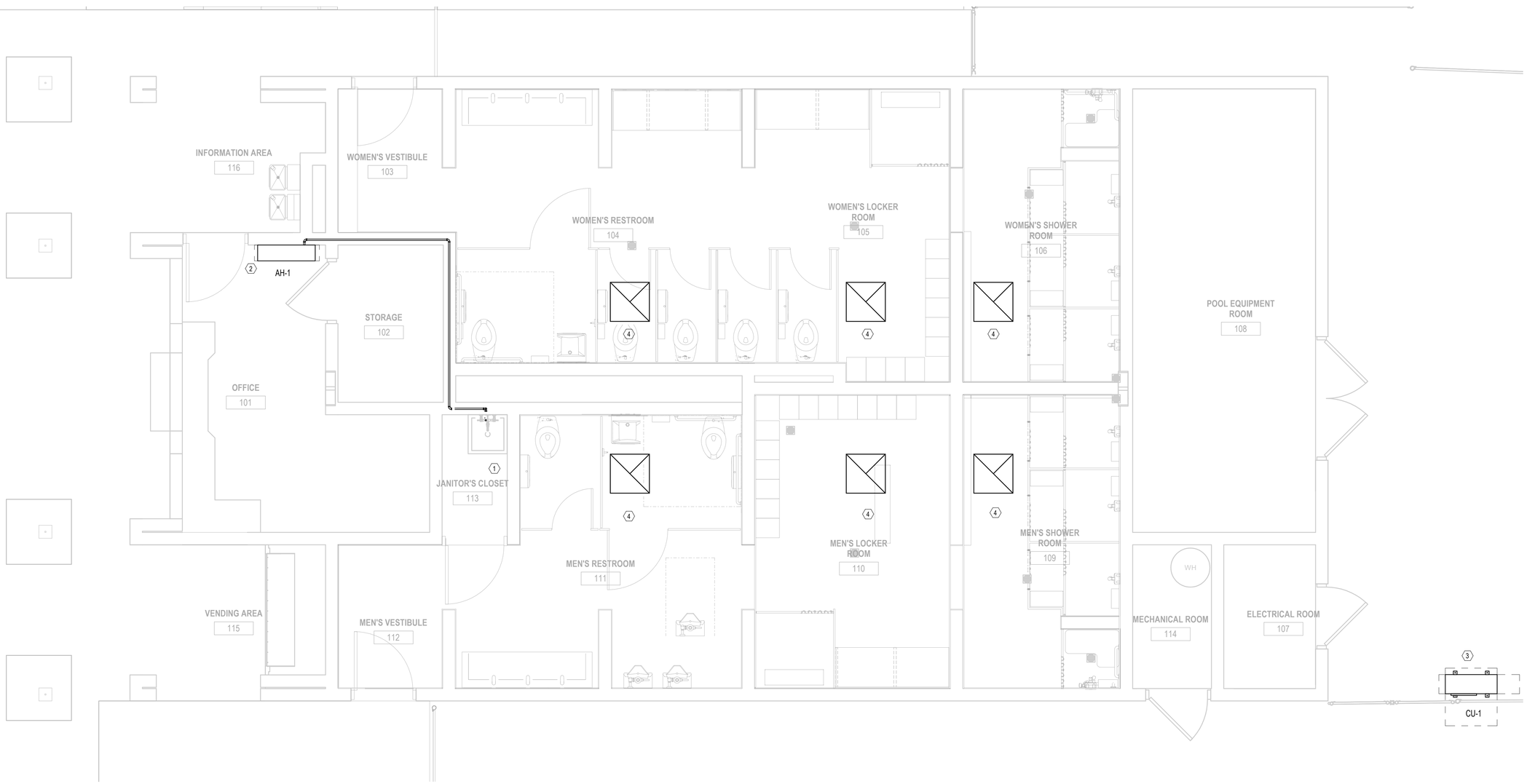
NOTES:
1. PHILIPS HEAD FASTENER

GENERAL NOTES

1. COORDINATE MECHANICA EQUIPMENT INSTALLATION WITH OTHER TRADES.

KEY NOTES

1. ROUTE CONDENSATE LINE THROUGH WALL AND INTO MOP SINK. CONDENSATE PUMP TO BE INSTALLED IN LINE.
2. MOUNT AIR HANDLER 90" A.F.F.
3. CONDENSER UNIT TO BE LOCATED ON EXISTING CONCRETE PAD. CONTRACTOR TO VERIFY LOCATION.
4. INSTALL NEW EXHAUST GRILLES IN CEILING. STYLE TO MATCH EXISTING. CONNECT TO EXISTING DUCTWORK.



1 FIRST FLOOR PLAN DUCTWORK

3/8" = 1'-0"

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FIRST FLOOR PLAN DUCTWORK

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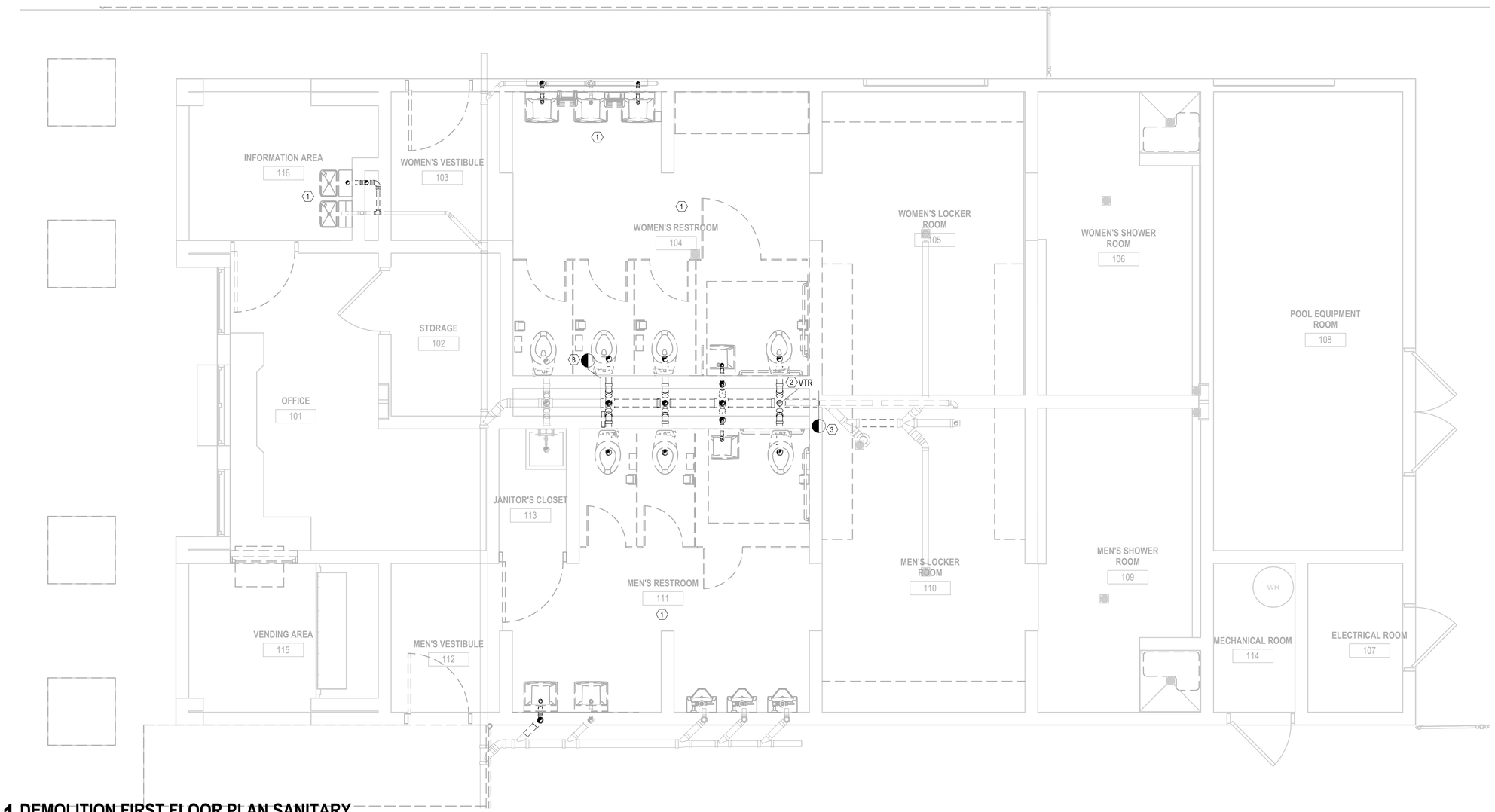
Sheet No.
M201

GENERAL NOTES

1. COORDINATE PLUMBING WITH ALL TRADES.

KEY NOTES

1. DEMOLISH AND REMOVE EXISTING WATER CLOSETS, URINALS, LAVATORIES AND DRINKING FOUNTAINS.
2. EXISTING VTR TO REMAIN.
3. DISCONNECT AND REMOVE SANITARY PIPING FROM EXISTING UNDERGROUND SANITARY LINE.



1 **DEMOLITION FIRST FLOOR PLAN SANITARY**

3/8" = 1'-0"

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DEMOLITION FIRST FLOOR PLAN SANITARY

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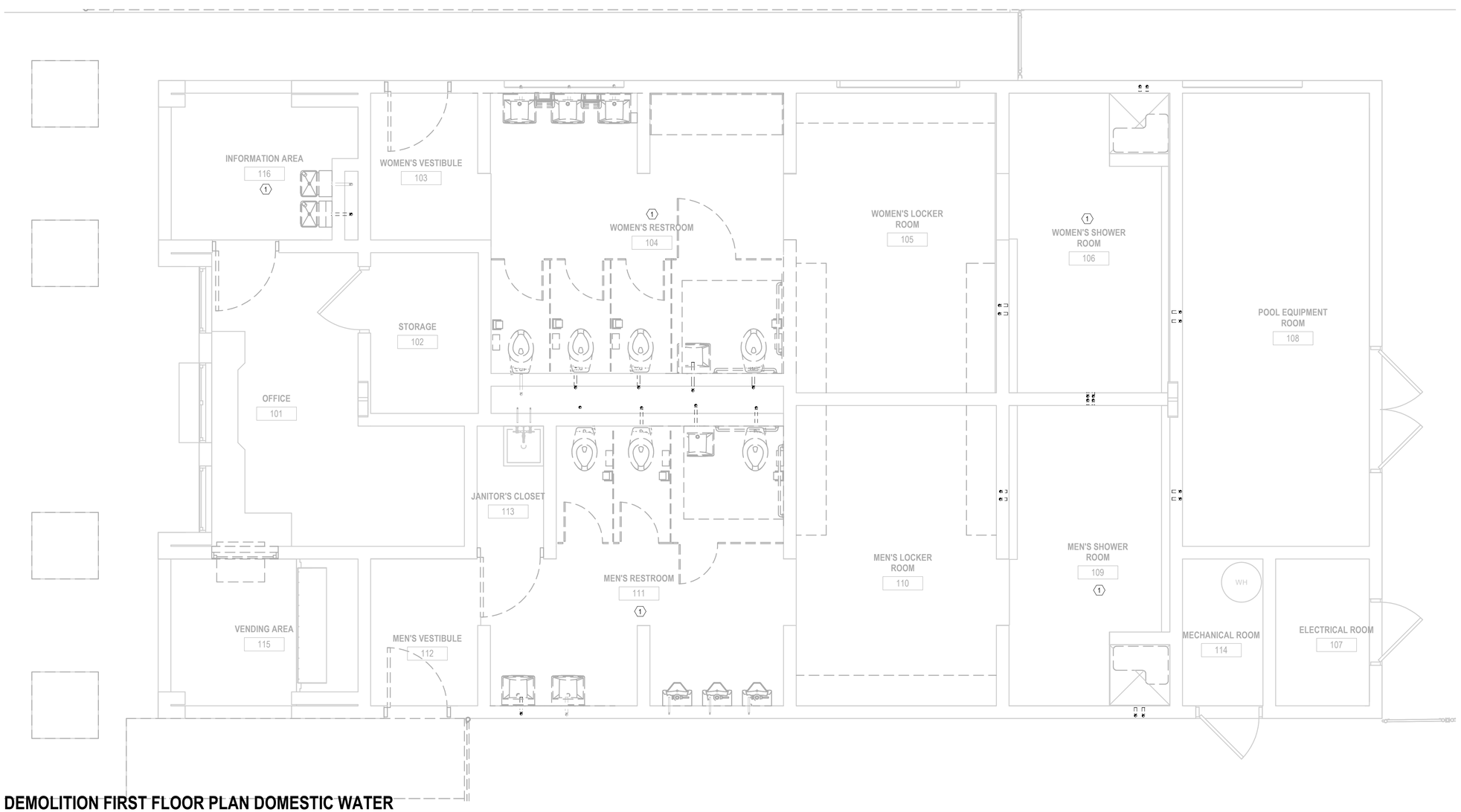
Sheet No.
PD201

GENERAL NOTES

1. COORDINATE PLUMBING WITH ALL TRADES.

KEY NOTES

1. DISCONNECT EXISTING COLD AND HOT WATER TO FIXTURES.



1 DEMOLITION FIRST FLOOR PLAN DOMESTIC WATER
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DEMOLITION FIRST FLOOR PLAN DOMESTIC WATER

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Sheet No.
PD301

PLUMBING DRAWING INDEX

SHEET	NAME
P000	PLUMBING LEGEND
P001	PLUMBING SPECIFICATIONS
P002	PLUMBING SPECIFICATIONS
P201	FIRST FLOOR PLAN SANITARY
P210	ROOF PLAN PLUMBING
P301	FIRST FLOOR PLAN DOMESTIC WATER
P501	PLUMBING SANITARY RISER
PD201	DEMOLITION FIRST FLOOR PLAN SANITARY
PD301	DEMOLITION FIRST FLOOR PLAN DOMESTIC WATER

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MANUFACTURER	MODEL	SANITARY WASTE CONN. SIZE	VENT CONN. SIZE	COLD WATER CONN. SIZE	HOT WATER CONN. SIZE	NOTES
L-1	LAVATORY (ADA)	KOHLER	K-2005	1-1/4"	2"	1/2"	-	KOHLER WALL-HUNG WHITE VITREOUS CHINA SINK OR EQUAL. INSTALLED AT ADA HEIGHT. SUPPLY FITTING: MCGUIRE CAST BRASS P-TRAP W/TUBLAR WALL BEND OR EQUAL (SIZE AS REQUIRED), TRUEBRO WHITE HANDICAP LAV-GUARD INSULATION KIT#102, ZURN MODEL Z6955-XL-S, .5 GPM, SELF-SUSTAINING, BATTERY BACKUP SENSOR ACTIVATED FAUCET. PROVIDE ZURN Z-1232 CARRIER OR EQUAL
L-2	LAVATORY (ADA)	MERIDIAN-EDGE	3803 SERIES	1-1/2"	2"	1/2"	-	OFF-FLOOR, ADA COMPLIANT TRI-BASIN IN WHITE. SUPPLY -SO-BAT: BATTERY POWERED, SENSOR OPERATED, DECK MOUNTED FAUCET. INSTALLED AT ADA HEIGHT.
S-1	SHOWER	BRADLEY	WS-1X	-	-	1/2"	1/2"	STAINLESS STEEL SHOWER PANEL: 1.5 GPM AXIS SHOWERHEAD WITH BALL JOINT, THERMOSTATIC MIXING VALVE AND AT STANDARD HEIGHT.
S-2	SHOWER (ADA)	BRADLEY	WS-1X-HN	-	-	1/2"	1/2"	STAINLESS STEEL SHOWER PANEL: 1.5 GPM FLOW CONTROL BALL JOINT SHOWER HEAD, HAND SHOWER WITH 60" STAINLESS STEEL FLEXIBLE HOSE AND ELEVATED IN-LINE BACKFLOW PREVENTER OR EQUAL.
WC-1	WATER CLOSET	ZURN	Z6555-BWL1	3-3/8"	2"	1"	-	VITREOUS CHINA , 1.1 GPF OR GREATER, FLOOR MOUNTED, BOTTOM OUTLET TOILET WITH SIPHON JET FLUSHING AND ELONGATED FRONT RIM WITH 1-1/2" TOP SPUD, OR EQUAL. SUPPLY: SLOAN ROYAL MANUAL FLUSHOMETER 111-1.6-PBPH551A-3-1/16 OR EQUAL WITH 1" I.P.S SCREWDRIVER BAK-CHEK ANGLE STOP WITH FREE SPINNING VANDAL RESISTANT STOP CAP AND Z5955SS-EL OPEN FRONT TOILET SEAT.
WC-2	WATER CLOSET (ADA)	ZURN	6501.010	3-3/8"	2"	1"	-	VITREOUS CHINA, 1.1 GPF OR GREATER FLOOR MOUNTED BACK OUTLET TOILET WITH SIPHON JET FLUSHING ACTION, OR EQUAL. ELONGATED FRONT RIM, ADA COMPLIANT, AND 1-1/2" TOP SPUD INLET CONNECTION. SUPPLY: SLOAN ROYAL MANUAL FLUSHOMETER 111-1.6-PBPH551A-3-1/16 OR EQUAL WITH 1" I.P.S SCREWDRIVER BAK-CHEK ANGLE STOP WITH FREE SPINNING VANDAL RESISTANT STOP CAP AND Z5955SS-EL OPEN FRONT TOILET SEAT
U-1	URINAL	ZURN	Z5755-U	2"	2"	3/4"	-	.125 TO 1.0 GPF VITREOUS CHINA, WALL HUNG, INTEGRAL TRAP, WASHDOWN URINAL COMPLETE WITH 3/4" TOP SPUD CONNECTION, CONCEALED UNIVERSAL RETROFIT WALL BRACKET, 2" OUTLET CONNECTION AND VANDAL RESISTANT OUTLET STRAINER. SUPPLY: Z1222 WALL URINAL SUPPORT SYSTEM, AND Z6003AV 1.0 GPF MANUAL FLUSH VALVE WITH HANDLE ON FRONT, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE FOR TOP SPUD CONNECTION.
U-2	URINAL (ADA)	ZURN	Z5755-U	2"	2"	3/4"	-	.125 TO 1.0 GPF VITREOUS CHINA, WALL HUNG, INTEGRAL TRAP, WASHDOWN URINAL COMPLETE WITH 3/4" TOP SPUD CONNECTION, CONCEALED UNIVERSAL RETROFIT WALL BRACKET, 2" OUTLET CONNECTION AND VANDAL RESISTANT OUTLET STRAINER HUNG 17" ABOVE FINISHED FLOOR FOR ADA COMPLIANCE. SUPPLY: Z1222 WALL URINAL SUPPORT SYSTEM, AND Z6003AV 1.0 GPF MANUAL FLUSH VALVE WITH HANDLE ON FRONT, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE FOR TOP SPUD CONNECTION.
DF-1	DRINKING FOUNTAIN	ELKAY	VRCTLR8WSK	1-1/2"	2"	3/8"	-	WALL MOUNTED VANDAL-RESISTANT BOTTLE FILLING STATION & BI-LEVEL REVERSE COOLER, NON-FILTERED REFRIGERATED STAINLESS.
Assembly Code								

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PLUMBING LEGEND

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Sheet No.
P000

SECTION 22 0517
SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING
PART 1 GENERAL
1.01 SECTION INCLUDES
A. PIPE SLEEVES.
1.02 REFERENCE STANDARDS
A. ASTM C592 - STANDARD SPECIFICATION FOR MINERAL FIBER BLANKET INSULATION AND BLANKET-TYPE PIPE INSULATION (METAL-MESH COVERED) (INDUSTRIAL TYPE); 2016.
B. ASTM E814 - STANDARD TEST METHOD FOR FIRE TESTS OF PENETRATION FIRESTOP SYSTEMS; 2013A (REAPPROVED 2017).
PART 2 PRODUCTS
2.01 PIPE SLEEVES
A. MANUFACTURERS:
1. FLEXICRAFT INDUSTRIES; PIPE WALL SLEEVE: WWW.FLEXICRAFT.COM/#SLE.
B. VERTICAL PIPING:
1. SLEEVE LENGTH: 1 INCH (25 MM) ABOVE FINISHED FLOOR.
2. PROVIDE SEALANT FOR WATERTIGHT JOINT.
3. BLOCKED OUT FLOOR OPENINGS: PROVIDE 1-1/2 INCH (40 MM) ANGLE SET IN SILICON ADHESIVE AROUND OPENING.
4. DRILLED PENETRATIONS: PROVIDE 1-1/2 INCH (40 MM) ANGLE RING OR SQUARE SET IN SILICONE ADHESIVE AROUND PENETRATION.
C. PLASTIC OR SHEET METAL: PIPE PASSING THROUGH INTERIOR WALLS, PARTITIONS, AND FLOORS, UNLESS STEEL OR BRASS SLEEVES ARE SPECIFIED BELOW.
D. CLEARANCES:
1. PROVIDE ALLOWANCE FOR INSULATED PIPING.
2. WALL, FLOOR, FLOOR, PARTITIONS, AND BEAM FLANGES: 1 INCH (25 MM) GREATER THAN EXTERNAL; PIPE DIAMETER.
3. ALL RATED OPENINGS: CAULKED TIGHT WITH FIRE STOPPING MATERIAL CONFORMING TO ASTM E814 IN ACCORDANCE WITH SECTION 07 8400 TO PREVENT THE SPREAD OF FIRE, SMOKE, AND GASES.
PART 3 EXECUTION
3.01 PREPARATION
A. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.
B. REMOVE SCALE AND FOREIGN MATERIAL, FROM INSIDE AND OUTSIDE, BEFORE ASSEMBLY.
3.02 INSTALLATION
A. ROUTE PIPING IN ORDERLY MANNER, PLUMB AND PARALLEL TO BUILDING STRUCTURE. MAINTAIN GRADIENT.
B. INSTALL PIPING TO CONSERVE BUILDING SPACE, TO NOT INTERFERE WITH USE OF SPACE AND OTHER WORK.
C. INSTALL PIPING AND PIPE SLEEVES TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
D. PROVIDE SLEEVES WHEN PENETRATING FLOORS, WALLS, AND PARTITIONS. SEAL PIPE INCLUDING SLEEVE PENETRATIONS TO ACHIEVE FIRE RESISTANCE EQUIVALENT TO FIRE SEPARATION REQUIRED.
1. UNDERGROUND PIPING: CAULK PIPE SLEEVE WATERTIGHT WITH LEAD AND OAKUM OR MECHANICALLY EXPANDABLE CHLOROPRENE INSERTS WITH BITUMEN SEALED METAL COMPONENTS.
2. ABOVEGROUND PIPING:
A. PACK SOLID USING MINERAL FIBER CONFORMING TO ASTM C592.
B. FILL SPACE WITH AN ELASTOMER CAULK TO A DEPTH OF 0.50 INCH (15 MM) WHERE PENETRATIONS OCCUR BETWEEN CONDITIONED AND UNCONDITIONED SPACES.
E. WHEN INSTALLING MORE THAN ONE PIPING SYSTEM MATERIAL, ENSURE SYSTEM COMPONENTS ARE COMPATIBLE AND JOINED TO ENSURE THE INTEGRITY OF THE SYSTEM. PROVIDE NECESSARY JOINING FITTINGS. ENSURE FLANGES, UNION, AND COUPLINGS FOR SERVICING ARE CONSISTENTLY PROVIDED.
3.03 CLEANING
A. UPON COMPLETION OF WORK, CLEAN ALL PARTS OF THE INSTALLATION.
B. CLEAN EQUIPMENT, PIPES, VALVES, AND FITTINGS OF GREASE, METAL CUTTINGS, AND SLUDGE THAT MAY HAVE ACCUMULATED FROM THE INSTALLATION AND TESTING OF THE SYSTEM.

SECTION 22 0523
GENERAL-DUTY VALVES FOR PLUMBING PIPING
PART 1 GENERAL
1.01 SECTION INCLUDES
A. APPLICATIONS.
B. GENERAL REQUIREMENTS.
C. BALL VALVES.
D. CHECK VALVES.
1.02 REFERENCE STANDARDS
A. ASME B16.18 - CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS; 2012.
B. ASTM B62 - STANDARD SPECIFICATION FOR COMPOSITION BRONZE OR OUNCE METAL CASTINGS; 2017.
C. MSS SP-45 - BYPASS AND DRAIN CONNECTIONS; 2003 (REAFFIRMED 2008).
D. MSS SP-80 - BRONZE GATE, GLOBE, ANGLE AND CHECK VALVES; 2013.
E. MSS SP-110 - BALL VALVES THREADED, SOCKET-WELDING, SOLDER JOINT, GROOVED AND FLARED ENDS; 2010.
F. NSF 61 - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS; 2017.
G. NSF 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT; 2016.
1.03 QUALITY ASSURANCE
A. MANUFACTURER:
1. OBTAIN VALVES FOR EACH VALVE TYPE FROM SINGLE MANUFACTURER.
2. COMPANY MUST SPECIALIZE IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION, WITH NOT LESS THAN THREE YEARS OF DOCUMENTED EXPERIENCE.
1.04 DELIVERY, STORAGE, AND HANDLING
A. PREPARE VALVES FOR SHIPPING AS FOLLOWS:
1. MINIMIZE EXPOSURE OF OPERABLE SURFACES BY SETTING PLUG AND BALL VALVES TO OPEN POSITION.
2. PROTECT VALVE PARTS EXPOSED TO PIPED MEDIUM AGAINST RUST AND CORROSION.
3. PROTECT VALVE PIPING CONNECTIONS SUCH AS GROOVES, WELD ENDS, THREADS, AND FLANGE FACES.
4. SECURE CHECK VALVES IN EITHER THE CLOSED POSITION OR OPEN POSITION.
B. USE THE FOLLOWING PRECAUTIONS DURING STORAGE:
1. MAINTAIN VALVE END PROTECTION AND PROTECT FLANGES AND SPECIALTIES FROM DIRT.
A. PROVIDE TEMPORARY INLET AND OUTLET CAPS.
B. MAINTAIN CAPS IN PLACE UNTIL INSTALLATION.
2. STORE VALVES IN SHIPPING CONTAINERS AND MAINTAIN IN PLACE UNTIL INSTALLATION.
A. STORE VALVES INDOORS IN DRY ENVIRONMENT.
B. STORE VALVES OFF THE GROUND IN WATERTIGHT ENCLOSURES WHEN INDOOR STORAGE IS NOT AN OPTION.
PART 2 PRODUCTS
2.01 APPLICATIONS
A. PROVIDE THE FOLLOWING VALVES FOR THE APPLICATIONS IF NOT INDICATED ON DRAWINGS:
1. SHUTOFF: BALL.
2. THROTTLING: BALL.
B. SUBSTITUTIONS OF VALVES WITH HIGHER CWP CLASSES OR SWP RATINGS FOR SAME VALVE TYPES ARE PERMITTED WHEN SPECIFIED CWP RATINGS OR SWP CLASSES ARE NOT AVAILABLE.
C. REQUIRED VALVE END CONNECTIONS FOR NON-WAFER TYPES:
1. COPPER TUBE:
A. 2 NPS (50 DN) AND SMALLER: THREADED ENDS EXCEPT WHERE SOLDER-JOINT VALVE-END OPTION IS INDICATED IN VALVE SCHEDULES BELOW.
B. 2-1/2 NPS (65 DN) TO 4 NPS (100 DN): GROOVED OR FLANGED ENDS EXCEPT WHERE THREADED VALVE-END OPTION IS INDICATED IN VALVE SCHEDULES BELOW.
D. DOMESTIC, HOT AND COLD WATER VALVES:
1. 2 NPS (50 DN) AND SMALLER:
A. BRONZE: PROVIDE WITH SOLDER-JOINT ENDS.
B. BALL: TWO PIECE, FULL PORT, BRONZE WITH STAINLESS-STEEL TRIM.
2.02 GENERAL REQUIREMENTS
A. VALVE PRESSURE AND TEMPERATURE RATINGS: NO LESS THAN RATING INDICATED; AS REQUIRED FOR SYSTEM PRESSURES AND TEMPERATURES.
B. VALVE SIZES: MATCH UPSTREAM PIPING UNLESS OTHERWISE INDICATED.
C. VALVES IN INSULATED PIPING: WITH 2 NPS (50 DN) STEM EXTENSIONS AND THE FOLLOWING FEATURES:
1. BALL VALVES: EXTENDED OPERATING HANDLE OF NON-THERMAL-CONDUCTIVE MATERIAL, AND PROTECTIVE SLEEVE THAT ALLOWS OPERATION OF VALVE WITHOUT BREAKING THE VAPOR SEAL OR DISTURBING INSULATION.
2. MEMORY STOPS: FULLY ADJUSTABLE AFTER INSULATION IS INSTALLED.
D. VALVE-END CONNECTIONS:
1. SOLDER JOINT CONNECTIONS: ASME B16.18.
E. GENERAL ASME COMPLIANCE:
1. SOLDER-JOINT CONNECTIONS: ASME B16.18.
F. VALVE MATERIALS FOR POTABLE WATER: NSF 61 AND NSF 372.
G. BRONZE VALVES:
1. FABRICATE FROM DEZINCIFICATION RESISTANT MATERIAL.
2. COPPER ALLOYS CONTAINING MORE THAN 15 PERCENT ZINC ARE NOT PERMITTED.
H. VALVE BYPASS AND DRAIN CONNECTIONS: MSS SP-45.
I. SOURCE LIMITATIONS: OBTAIN EACH VALVE TYPE FROM A SINGLE MANUFACTURER.
2.03 BRONZE BALL VALVES
A. TWO PIECE, FULL PORT WITH STAINLESS STEEL TRIM:
1. COMPLY WITH MSS SP-110.
2. SWP RATING: 150 PSIG (1035 KPA).
3. CWP RATING: 600 PSIG (4140 KPA).
4. BODY: LEAD FREE BRONZE.
5. ENDS: THREADED.
6. SEATS: PTFE.
7. STEM: STAINLESS STEEL.
8. BALL: STAINLESS STEEL, VENTED.
9. MANUFACTURERS:
A. CRANE.
B. [NIBCO].
C. WATTS.
2.04 BRONZE SWING CHECK VALVES
A. CLASS 125: CWP RATING: 200 PSIG (1380 KPA).
1. COMPLY WITH MSS SP-80, TYPE 3.
2. DESIGN: HORIZONTAL FLOW.
3. BODY: LEAD FREE BRONZE, ASTM B62.
4. ENDS: THREADED AS INDICATED.
5. DISC: BRONZE.
6. MANUFACTURERS:
A. CRANE..
B. NIBCO.
C. WATTS.
PART 3 EXECUTION
3.01 EXAMINATION
A. DISCARD ALL PACKING MATERIALS AND VERIFY THAT VALVE INTERIOR, INCLUDING THREADS AND FLANGES ARE COMPLETELY CLEAN WITHOUT SIGNS OF DAMAGE OR DEGRADATION THAT COULD RESULT IN LEAKAGE.
B. VERIFY VALVE PARTS TO BE FULLY OPERATIONAL IN ALL POSITIONS FROM CLOSED TO FULLY OPEN.
C. CONFIRM GASKET MATERIAL TO BE SUITABLE FOR THE SERVICE, TO BE OF CORRECT SIZE, AND WITHOUT DEFECTS THAT COULD COMPROMISE EFFECTIVENESS.
D. SHOULD VALVE IS DETERMINED TO BE DEFECTIVE, REPLACE WITH NEW VALVE.
3.02 INSTALLATION
A. PROVIDE UNIONS OR FLANGES WITH VALVES TO FACILITATE EQUIPMENT REMOVAL AND MAINTENANCE WHILE MAINTAINING SYSTEM OPERATION AND FULL ACCESSIBILITY FOR SERVICING.
B. PROVIDE SEPARATE VALVE SUPPORT AS REQUIRED AND LOCATE VALVE WITH STEM AT OR ABOVE CENTER OF PIPING, MAINTAINING UNIMPEDED STEM MOVEMENT.
C. INSTALL CHECK VALVES WHERE NECESSARY TO MAINTAIN DIRECTION OF FLOW AS FOLLOWS:
1. LIFT CHECK: INSTALL WITH STEM PLUMB AND VERTICAL.
2. SWING CHECK: INSTALL HORIZONTAL MAINTAINING HINGE PIN LEVEL.

SECTION 22 0529
HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
PART 1 PRODUCTS
1.01 SUPPORT AND ATTACHMENT COMPONENTS
A. GENERAL REQUIREMENTS:
1. COMPLY WITH MSS SP-58.
2. PROVIDE ALL REQUIRED HANGERS, SUPPORTS, ANCHORS, FASTENERS, FITTINGS, ACCESSORIES, AND HARDWARE AS NECESSARY FOR THE COMPLETE INSTALLATION OF PLUMBING WORK.
3. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED, WHERE APPLICABLE.
4. DO NOT USE WIRE, CHAIN, PERFORATED PIPE STRAP, OR WOOD FOR PERMANENT SUPPORTS UNLESS SPECIFICALLY INDICATED OR PERMITTED.
5. STEEL COMPONENTS: USE CORROSION RESISTANT MATERIALS SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED.
A. INDOOR DRY LOCATIONS: USE ZINC-PLATED STEEL OR APPROVED EQUIVALENT UNLESS OTHERWISE INDICATED.
B. OUTDOOR AND DAMP OR WET INDOOR LOCATIONS: USE GALVANIZED STEEL, STAINLESS STEEL, OR APPROVED EQUIVALENT UNLESS OTHERWISE INDICATED.
C. ZINC-PLATED STEEL: ELECTROPLATED IN ACCORDANCE WITH ASTM B633.
D. GALVANIZED STEEL: HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123/A123M OR ASTM A153/A153M.
B. METAL CHANNEL (STRUT) FRAMING SYSTEMS:
1. MANUFACTURERS:
A. COOPER B-LINE, A DIVISION OF EATON CORPORATION: WWW.COOPERINDUSTRIES.COM/#SLE.
B. THOMAS & BETTS CORPORATION: WWW.TNB.COM/#SLE.
C. UNISTRUT, A BRAND OF ATKORE INTERNATIONAL INC: WWW.UNISTRUT.COM/#SLE.
D. SOURCE LIMITATIONS: FURNISH CHANNELS (STRUTS) AND ASSOCIATED FITTINGS, ACCESSORIES, AND HARDWARE PRODUCED BY A SINGLE MANUFACTURER.
E. APPROVED EQUAL
2. PROVIDE FACTORY-FABRICATED CONTINUOUS-SLOT METAL CHANNEL (STRUT) AND ASSOCIATED FITTINGS, ACCESSORIES, AND HARDWARE REQUIRED FOR FIELD-ASSEMBLY OF SUPPORTS.
3. COMPLY WITH MFMA-4.
4. CHANNEL MATERIAL:
A. INDOOR DRY LOCATIONS: USE PAINTED STEEL, ZINC-PLATED STEEL, OR GALVANIZED STEEL.
B. OUTDOOR AND DAMP OR WET INDOOR LOCATIONS: USE GALVANIZED STEEL.
5. MINIMUM CHANNEL THICKNESS: STEEL SHEET, 12 GAGE, 0.1046 INCH (2.66 MM).
6. MINIMUM CHANNEL DIMENSIONS: 1-5/8 INCH (41 MM) WIDTH BY 13/16 INCH (21 MM) HEIGHT.
C. HANGER RODS: THREADED ZINC-PLATED STEEL UNLESS OTHERWISE INDICATED.
1. MINIMUM SIZE, UNLESS OTHERWISE INDICATED OR REQUIRED:
A. EQUIPMENT SUPPORTS: 1/2 INCH (13 MM) DIAMETER.
B. PIPING UP TO 1 INCH (27 MM) NOMINAL: 1/4 INCH (6 MM) DIAMETER.
C. PIPING LARGER THAN 1 INCH (27 MM) NOMINAL: 3/8 INCH (10 MM) DIAMETER.
D. TRAPEZE SUPPORT FOR MULTIPLE PIPES: 3/8 INCH (10 MM) DIAMETER.
D. THERMAL INSULATED PIPE SUPPORTS:
1. MANUFACTURERS:
A. KB ENTERPRISES: WWW.SNAPPITZ.COM/#SLE.
B. APPROVED EQUAL
2. GENERAL CONSTRUCTION AND REQUIREMENTS:
A. INSULATED PIPE SUPPORTS TO BE PROVIDED AT HANGER, SUPPORT, AND GUIDE LOCATIONS ON PIPE REQUIRING INSULATION OR ADDITIONAL SUPPORT.
B. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD INDEX/SMOKE DEVELOPED INDEX OF 5/30, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.
C. PIPE SUPPORTS TO BE PROVIDED FOR NOMINALLY SIZED, 1/2 INCH TO 30 INCH (12.7 MM TO 762 MM) IRON PIPES.
D. INSULATION INSERTS TO CONSIST OF POLYISOCYANURATE (URETHANE) INSULATION SURROUNDED BY A 360 DEGREE, PVC JACKETING.
3. PVC JACKET:
A. PIPE INSULATION PROTECTION SHIELDS TO BE PROVIDED WITH A BALL BEARING HINGE AND LOCKING SEAM.
B. MINIMUM SERVICE TEMPERATURE: MINUS 40 DEGREES F (MINUS 40 DEGREES C).
C. MAXIMUM SERVICE TEMPERATURE: 180 DEGREES F (82 DEGREES C).
D. MOISTURE VAPOR TRANSMISSION: 0.0071 PERM INCH (0.0092 NG/PA S M), WHEN TESTED IN ACCORDANCE WITH ASTM E96/E96M.
E. THICKNESS: 60 MIL (1.524 MM).
F. CONNECTIONS: BRUSH ON WELDING ADHESIVE.
4. PIPE INSULATION PROTECTION SHIELDS TO BE PROVIDED AT THE HANGER POINTS AND GUIDE LOCATIONS ON PIPES REQUIRING INSULATION AS INDICATED ON DRAWINGS.
G. ANCHORS AND FASTENERS:
1. MANUFACTURERS - MECHANICAL ANCHORS:
A. HILTI, INC: WWW.US.HILTI.COM/#SLE.
B. ITW RED HEAD, A DIVISION OF ILLINOIS TOOL WORKS, INC: WWW.ITWREDHEAD.COM/#SLE.
C. POWERS FASTENERS, INC: WWW.POWERS.COM/#SLE.
D. SIMPSON STRONG-TIE COMPANY INC: WWW.STRONGTIE.COM/#SLE.
E. APPROVED EQUAL
2. MANUFACTURERS - POWDER-ACTUATED FASTENING SYSTEMS:
A. HILTI, INC: WWW.US.HILTI.COM/#SLE.
B. ITW RAMSET, A DIVISION OF ILLINOIS TOOL WORKS, INC: WWW.RAMSET.COM/#SLE.
C. POWERS FASTENERS, INC: WWW.POWERS.COM/#SLE.
D. SIMPSON STRONG-TIE COMPANY INC: WWW.STRONGTIE.COM/#SLE.
E. APPROVED EQUAL
3. UNLESS OTHERWISE INDICATED AND WHERE NOT OTHERWISE RESTRICTED, USE THE ANCHOR AND FASTENER TYPES INDICATED FOR THE SPECIFIED APPLICATIONS.
4. CONCRETE: USE PRESET CONCRETE INSERTS, EXPANSION ANCHORS, OR SCREW ANCHORS.
5. SOLID OR GROUT-FILLED MASONRY: USE EXPANSION ANCHORS OR SCREW ANCHORS.
6. HOLLOW MASONRY: USE TOGGLE BOLTS.
7. HOLLOW STUD WALLS: USE TOGGLE BOLTS.
8. STEEL: USE BEAM CLAMPS, MACHINE BOLTS, OR WELDED THREADED STUDS.
9. SHEET METAL: USE SHEET METAL SCREWS.
10.WOOD: USE WOOD SCREWS.
11.PRESET CONCRETE INSERTS: CONTINUOUS METAL CHANNEL (STRUT) AND SPOT INSERTS SPECIFICALLY DESIGNED TO BE CAST IN CONCRETE CEILINGS, WALLS, AND FLOORS.
A. COMPLY WITH MFMA-4.
B. CHANNEL MATERIAL: USE GALVANIZED STEEL.
C. MINIMUM CHANNEL THICKNESS: STEEL SHEET, 12 GAGE, 0.1046 INCH (2.66 MM) MINIMUM BASE METAL THICKNESS.
D. MANUFACTURER: SAME AS MANUFACTURER OF METAL CHANNEL (STRUT) FRAMING SYSTEM.
12.POST-INSTALLED CONCRETE AND MASONRY ANCHORS: EVALUATED AND RECOGNIZED BY ICC EVALUATION SERVICE, LLC (ICC-ES) FOR COMPLIANCE WITH APPLICABLE BUILDING CODE.
PART 2 EXECUTION
2.01 INSTALLATION
A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. INSTALL ANCHORS AND FASTENERS IN ACCORDANCE WITH ICC EVALUATION SERVICES, LLC (ICC-ES) EVALUATION REPORT CONDITIONS OF USE WHERE APPLICABLE.
C. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE. DO NOT PROVIDE SUPPORT FROM PIPING, DUCTWORK, CONDUIT, OR OTHER SYSTEMS.
D. UNLESS SPECIFICALLY INDICATED OR APPROVED BY ARCHITECT, DO NOT PROVIDE SUPPORT FROM SUSPENDED CEILING SUPPORT SYSTEM OR CEILING GRID.
E. UNLESS SPECIFICALLY INDICATED OR APPROVED BY ARCHITECT, DO NOT PROVIDE SUPPORT FROM ROOF DECK.
F. DO NOT PENETRATE OR OTHERWISE NOTCH OR CUT STRUCTURAL MEMBERS WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
G. PROVIDE THERMAL INSULATED PIPE SUPPORTS COMPLETE WITH HANGERS AND ACCESSORIES. INSTALL THERMAL INSULATED PIPE SUPPORTS DURING THE INSTALLATION OF THE PIPING SYSTEM.
H. EQUIPMENT SUPPORT AND ATTACHMENT:
1. USE METAL FABRICATED SUPPORTS OR SUPPORTS ASSEMBLED FROM METAL CHANNEL (STRUT) TO SUPPORT EQUIPMENT AS REQUIRED.
2. USE METAL CHANNEL (STRUT) SECURED TO STUDS TO SUPPORT EQUIPMENT SURFACE-MOUNTED ON HOLLOW STUD WALLS WHEN WALL STRENGTH IS NOT SUFFICIENT TO RESIST PULL-OUT.
3. USE METAL CHANNEL (STRUT) TO SUPPORT SURFACE-MOUNTED EQUIPMENT IN WET OR DAMP LOCATIONS TO PROVIDE SPACE BETWEEN EQUIPMENT AND MOUNTING SURFACE.
4. UNLESS OTHERWISE INDICATED, MOUNT FLOOR-MOUNTED EQUIPMENT ON PROPERLY SIZED 3 INCH (80 MM) HIGH CONCRETE PAD CONSTRUCTED IN ACCORDANCE WITH SECTION 03 3000.
5. SECURELY FASTEN FLOOR-MOUNTED EQUIPMENT. DO NOT INSTALL EQUIPMENT SUCH THAT IT RELIES ON ITS OWN WEIGHT FOR SUPPORT.
I. PRESET CONCRETE INSERTS: USE MANUFACTURER PROVIDED CLOSURE STRIPS TO INHIBIT CONCRETE SEEPAGE DURING CONCRETE POUR.
J. SECURE FASTENERS ACCORDING TO MANUFACTURER'S RECOMMENDED TORQUE SETTINGS.
K. REMOVE TEMPORARY SUPPORTS.
2.02 FIELD QUALITY CONTROL
A. SEE SECTION 01 4000 - QUALITY REQUIREMENTS, FOR ADDITIONAL REQUIREMENTS.
B. INSPECT SUPPORT AND ATTACHMENT COMPONENTS FOR DAMAGE AND DEFECTS.
C. REPAIR CUTS AND ABRASIONS IN GALVANIZED FINISHES USING ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER. REPLACE COMPONENTS THAT EXHIBIT SIGNS OF CORROSION.
D. CORRECT DEFICIENCIES AND REPLACE DAMAGED OR DEFECTIVE SUPPORT AND ATTACHMENT COMPONENTS.

SECTION 22 0553
IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
PART 1 PRODUCTS
1.01 IDENTIFICATION APPLICATIONS
A. AIR HANDLING UNITS: NAMEPLATES.
B. AIR TERMINAL UNITS: TAGS.
C. CONTROL PANELS: NAMEPLATES.
D. PIPING: STENCILS
E. PUMPS: NAMEPLATES.
F. SMALL-SIZED EQUIPMENT: TAGS.
G. THERMOSTATS: NAMEPLATES.
H. VALVES: TAGS
1.02 NAMEPLATES
A. MANUFACTURERS:
1. BRIMAR INDUSTRIES, INC: WWW.PIPEMARKER.COM/#SLE.
2. KOLBI PIPE MARKER CO: WWW.KOLBIPIPEMARKERS.COM.
3. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
4. APPROVED EQUAL
B. DESCRIPTION: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED LETTERS.
1. LETTER COLOR: WHITE.
2. LETTER HEIGHT: 1/4 INCH (6 MM).
3. BACKGROUND COLOR: BLACK.
4. PLASTIC: CONFORM TO ASTM D709.
1.03 TAGS
A. MANUFACTURERS:
1. ADVANCED GRAPHIC ENGRAVING: WWW.ADVANCEDGRAPHICENGRAVING.COM.
2. BRADY CORPORATION: WWW.BRADYCORP.COM.
3. BRIMAR INDUSTRIES, INC: WWW.PIPEMARKER.COM/#SLE.
4. KOLBI PIPE MARKER CO: WWW.KOLBIPIPEMARKERS.COM.
5. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
6. APPROVED EQUAL
B. PLASTIC TAGS: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR. TAG SIZE MINIMUM 1-1/2 INCH (40 MM) DIAMETER.
C. METAL TAGS: BRASS WITH STAMPED LETTERS; TAG SIZE MINIMUM 1-1/2 INCH (40 MM) DIAMETER WITH SMOOTH EDGES.
D. VALVE TAG CHART: TYPEWRITTEN LETTER SIZE LIST IN ANODIZED ALUMINUM FRAME.
1.04 STENCILS
A. MANUFACTURERS:
1. BRADY CORPORATION: WWW.BRADYCORP.COM.
2. KOLBI PIPE MARKER CO.: WWW.KOLBIPIPEMARKERS.COM.
3. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
4. APPROVED EQUAL
B. STENCILS: WITH CLEAN CUT SYMBOLS AND LETTERS OF FOLLOWING SIZE:
1. 3/4 TO 1-1/4 INCH (20-30 MM) OUTSIDE DIAMETER OF INSULATION OR PIPE: 8 INCH (200 MM) LONG COLOR FIELD, 1/2 INCH (15 MM) HIGH LETTERS.
2. 1-1/2 TO 2 INCH (40-50 MM) OUTSIDE DIAMETER OF INSULATION OR PIPE: 8 INCH (200 MM) LONG COLOR FIELD, 3/4 INCH (20 MM) HIGH LETTERS.
3. 2-1/2 TO 6 INCH (65-150 MM) OUTSIDE DIAMETER OF INSULATION OR PIPE: 12 INCH (300 MM) LONG COLOR FIELD, 1-1/4 INCH (30 MM) HIGH LETTERS.
4. DUCTWORK AND EQUIPMENT: 2-1/2 INCH (65 MM) HIGH LETTERS.
C. STENCIL PAINT: SEMI-GLOSS ENAMEL, COLORS CONFORMING TO ASME A13.1.
1.05 PIPE MARKERS
A. MANUFACTURERS:
1. BRADY CORPORATION: WWW.BRADYCORP.COM.
2. BRIMAR INDUSTRIES, INC: WWW.PIPEMARKER.COM/#SLE.
3. KOLBI PIPE MARKER CO: WWW.KOLBIPIPEMARKERS.COM.
4. MIFAB, INC: WWW.MIFAB.COM.
5. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
6. APPROVED EQUAL
B. COMPLY WITH ASME A13.1.
C. PLASTIC TAPE PIPE MARKERS: FLEXIBLE, VINYL FILM TAPE WITH PRESSURE SENSITIVE ADHESIVE BACKING AND PRINTED MARKINGS.
D. COLOR CODE AS FOLLOWS:
POTABLE, COOLING, OTHER WATER: GREEN WITH WHITE LETTERS.
2. FIRE QUENCHING FLUIDS: RED WITH WHITE LETTERS.
3. TOXIC AND CORROSIVE FLUIDS: ORANGE WITH BLACK LETTERS.
4. FLAMMABLE FLUIDS: YELLOW WITH BLACK LETTERS.
5. COMBUSTIBLE FLUIDS: BROWN WITH WHITE LETTERS.
6. COMPRESSED AIR: BLUE WITH WHITE LETTERS.
PART 2 EXECUTION
2.01 PREPARATION
A. DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION MATERIALS.
2.02 INSTALLATION
A. INSTALL PLASTIC NAMEPLATES WITH CORROSIVE-RESISTANT MECHANICAL FASTENERS, OR ADHESIVE. APPLY WITH SUFFICIENT ADHESIVE TO ENSURE PERMANENT ADHESION AND SEAL WITH CLEAR LACQUER.
B. INSTALL TAGS WITH CORROSION RESISTANT CHAIN.
C. INSTALL PLASTIC TAPE PIPE MARKERS COMPLETE AROUND PIPE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
D. USE TAGS ON PIPING 3/4 INCH (20 MM) DIAMETER AND SMALLER.
1. IDENTIFY SERVICE, FLOW DIRECTION, AND PRESSURE.
2. INSTALL IN CLEAR VIEW AND ALIGN WITH AXIS OF PIPING.
3. LOCATE IDENTIFICATION NOT TO EXCEED 20 FEET (6 M) ON STRAIGHT RUNS INCLUDING RISERS AND DROPS, ADJACENT TO EACH VALVE AND TEE, AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE, AND AT EACH OBSTRUCTION.
E. INSTALL DUCTWORK WITH PLASTIC NAMEPLATES. IDENTIFY WITH AIR HANDLING UNIT IDENTIFICATION NUMBER AND AREA SERVED. LOCATE IDENTIFICATION AT AIR HANDLING UNIT, AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE, AND AT EACH OBSTRUCTION.

SECTION 22 0553
IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
PART 1 GENERAL
1.01 SECTION INCLUDES
A. NAMEPLATES.
B. TAGS.
C. PIPE MARKERS.
D. CEILING TACKS.
1.02 REFERENCE STANDARDS
A. ASME A13.1 - SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS; 2015.
PART 2 PRODUCTS
2.01 IDENTIFICATION APPLICATIONS
A. PIPING: PIPE MARKERS.
B. TANKS: NAMEPLATES.
C. VALVES: TAGS AND CEILING TACKS WHERE LOCATED ABOVE LAY-IN CEILING.
2.02 NAMEPLATES
A. MANUFACTURERS:
1. BRIMAR INDUSTRIES, INC: WWW.PIPEMARKER.COM/#SLE.
2. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
B. DESCRIPTION: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED LETTERS.
1. LETTER COLOR: WHITE.
2. LETTER HEIGHT: 1/4 INCH (6 MM).
3. BACKGROUND COLOR: BLACK.
4. PLASTIC: CONFORM TO ASTM D709.
2.03 TAGS
A. MANUFACTURERS:
1. BRADY CORPORATION: WWW.BRADYCORP.COM.
2. BRIMAR INDUSTRIES, INC: WWW.PIPEMARKER.COM/#SLE.
3. KOLBI PIPE MARKER CO: WWW.KOLBIPIPEMARKERS.COM.
4. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
B. PLASTIC TAGS: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR. TAG SIZE MINIMUM 1-1/2 INCH (40 MM) DIAMETER.
2.04 PIPE MARKERS
A. MANUFACTURERS:
1. BRADY CORPORATION: WWW.BRADYCORP.COM.
2. BRIMAR INDUSTRIES, INC: WWW.PIPEMARKER.COM/#SLE.
3. KOLBI PIPE MARKER CO: WWW.KOLBIPIPEMARKERS.COM.
4. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM.
B. COMPLY WITH ASME A13.1.
C. PLASTIC PIPE MARKERS: FACTORY FABRICATED, FLEXIBLE, SEMI- RIGID PLASTIC, PREFORMED TO FIT AROUND PIPE OR PIPE COVERING; MINIMUM INFORMATION INDICATING FLOW DIRECTION ARROW AND IDENTIFICATION OF FLUID BEING CONVEYED.
D. UNDERGROUND PLASTIC PIPE MARKERS: BRIGHT COLORED CONTINUOUSLY PRINTED PLASTIC RIBBON TAPE, MINIMUM 6 INCHES (150 MM) WIDE BY 4 MIL (0.10 MM) THICK, MANUFACTURED FOR DIRECT BURIAL SERVICE.
E. COLOR CODE AS FOLLOWS:
1. POTABLE, COOLING, BOILER, FEED, OTHER WATER: GREEN WITH WHITE LETTERS.
2.05 CEILING TACKS
A. MANUFACTURERS:
1. CRAFTMARK: WWW.CRAFTMARKID.COM.
B. DESCRIPTION: STEEL WITH 3/4 INCH (20 MM) DIAMETER COLOR CODED HEAD.
C. COLOR CODE AS FOLLOWS:
1. PLUMBING VALVES: GREEN.
PART 3 EXECUTION
3.01 PREPARATION
A. DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION MATERIALS.
3.02 INSTALLATION
A. INSTALL PLASTIC NAMEPLATES WITH CORROSIVE-RESISTANT MECHANICAL FASTENERS, OR ADHESIVE. APPLY WITH SUFFICIENT ADHESIVE TO ENSURE PERMANENT ADHESION AND SEAL WITH CLEAR LACQUER.
B. INSTALL TAGS WITH CORROSION RESISTANT CHAIN.
C. INSTALL PLASTIC PIPE MARKERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
D. INSTALL UNDERGROUND PLASTIC PIPE MARKERS 6 TO 8 INCHES (150 TO 200 MM) BELOW FINISHED GRADE, DIRECTLY ABOVE BURIED PIPE.
E. LOCATE CEILING TACKS TO LOCATE VALVES OR DAMPERS ABOVE LAY-IN PANEL CEILINGS. LOCATE IN CORNER OF PANEL CLOSEST TO EQUIPMENT.

SECTION 22 0719
PLUMBING PIPING INSULATION
PART 1 GENERAL
1.01 SECTION INCLUDES
A. PIPING INSULATION.
1.02 REFERENCE STANDARDS
A. ASTM C177 - STANDARD TEST METHOD FOR STEADY-STATE HEAT FLUX MEASUREMENTS AND THERMAL TRANSMISSION PROPERTIES BY MEANS OF THE GUARDED-HOT-PLATE APPARATUS; 2013.
B. ASTM C449 - STANDARD SPECIFICATION FOR MINERAL FIBER HYDRAULIC-SETTING THERMAL INSULATING AND FINISHING CEMENT; 2007 (REAPPROVED 2013).
C. ASTM C547 - STANDARD SPECIFICATION FOR MINERAL FIBER PIPE INSULATION; 2017.
D. ASTM C795 - STANDARD SPECIFICATION FOR THERMAL INSULATION FOR USE IN CONTACT WITH AUSTENITIC STAINLESS STEEL; 2008 (REAPPROVED 2013).
E. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.
F. ASTM E96/E96M - STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS; 2016.
G. UL 723 - STANDARD FOR TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; CURRENT EDITION, INCLUDING ALL REVISIONS.
1.03 QUALITY ASSURANCE
A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH NOT LESS THAN THREE YEARS OF DOCUMENTED EXPERIENCE.
B. APPLICATOR QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING THE TYPE OF WORK SPECIFIED IN THIS SECTION WITH MINIMUM 3 YEARS OF EXPERIENCE.
1.04 DELIVERY, STORAGE, AND HANDLING
A. ACCEPT MATERIALS ON SITE, LABELED WITH MANUFACTURER'S IDENTIFICATION, PRODUCT DENSITY, AND THICKNESS.
1.05 FIELD CONDITIONS
A. MAINTAIN AMBIENT CONDITIONS REQUIRED BY MANUFACTURERS OF EACH PRODUCT.
B. MAINTAIN TEMPERATURE BEFORE, DURING, AND AFTER INSTALLATION FOR MINIMUM OF 24 HOURS.
PART 2 PRODUCTS
2.01 REGULATORY REQUIREMENTS
A. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD INDEX/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.
2.02 GLASS FIBER
A. MANUFACTURERS:
1. CERTAINTEED CORPORATION: WWW.CERTAINTEED.COM.
2. JOHNS MANVILLE CORPORATION: WWW.JM.COM.
3. KNAUF INSULATION; EARTHWOOL 1000 DEGREE PIPE INSULATION: WWW.KNAUFINSULATION.COM/#SLE.
4. OWENS CORNING CORPORATION; FIBERGLAS PIPE INSULATION ASJ: WWW.OCBUILDINGSPEC.COM/#SLE.
B. INSULATION: ASTM C547 AND ASTM C795; SEMI-RIGID, NONCOMBUSTIBLE, END GRAIN ADHERED TO JACKET.
1. 'K' ('KSI') VALUE: ASTM C177, 0.24 AT 75 DEGREES F (0.035 AT 24 DEGREES C).
2. MAXIMUM SERVICE TEMPERATURE: 650 DEGREES F (343 DEGREES C).
3. MAXIMUM MOISTURE ABSORPTION: 0.2 PERCENT BY VOLUME.
C. VAPOR BARRIER JACKET: WHITE KRAFT PAPER WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM; MOISTURE VAPOR TRANSMISSION WHEN TESTED IN ACCORDANCE WITH ASTM E96/E96M OF 0.02 PERM-INCHES (0.029 NG/PA S M).
D. TIE WIRE: 0.048 INCH (1.22 MM) STAINLESS STEEL WITH TWISTED ENDS ON MAXIMUM 12 INCH (300 MM) CENTERS.
E. VAPOR BARRIER LAP ADHESIVE: COMPATIBLE WITH INSULATION.
F. INSULATING CEMENT: ASTM C449.
PART 3 EXECUTION
3.01 EXAMINATION
A. VERIFY THAT PIPING HAS BEEN TESTED BEFORE APPLYING INSULATION MATERIALS.
B. VERIFY THAT SURFACES ARE CLEAN AND DRY, WITH FOREIGN MATERIAL REMOVED.
3.02 INSTALLATION
A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. INSTALL IN ACCORDANCE WITH NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA) NATIONAL INSULATION STANDARDS.
C. EXPOSED PIPING: LOCATE INSULATION AND COVER SEAMS IN LEAST VISIBLE LOCATIONS.
D. INSULATED PIPES CONVEYING FLUIDS BELOW AMBIENT TEMPERATURE: INSULATE ENTIRE SYSTEM INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, PUMP BODIES, AND EXPANSION JOINTS.
E. GLASS FIBER INSULATED PIPES CONVEYING FLUIDS BELOW AMBIENT TEMPERATURE:
1. PROVIDE VAPOR BARRIER JACKETS, FACTORY-APPLIED OR FIELD-APPLIED. SECURE WITH SELF-SEALING LONGITUDINAL LAPS AND BUTT STRIPS WITH PRESSURE SENSITIVE ADHESIVE. SECURE WITH OUTWARD CLINCH EXPANDING STAPLES AND VAPOR BARRIER MASTIC.
2. INSULATE FITTINGS, JOINTS, AND VALVES WITH MOLDED INSULATION OF LIKE MATERIAL AND THICKNESS AS ADJACENT PIPE. FINISH WITH GLASS CLOTH AND VAPOR BARRIER ADHESIVE OR PVC FITTING COVERS.
3.03 SCHEDULES
A. PLUMBING SYSTEMS:
1. DOMESTIC HOT WATER SUPPLY:
A. GLASS FIBER INSULATION:
1) PIPE SIZE RANGE: 1/2 INCH (15 MM) AND UP.
2) THICKNESS: 1 INCH (25 MM).
2. DOMESTIC COLD WATER:
A. GLASS FIBER INSULATION:
1) PIPE SIZE RANGE: 1/2 INCH (15 MM) AND UP.
2) THICKNESS: 1 1/2 INCH (40 MM).

SECTION 22 1005
PLUMBING PIPING
PART 1 GENERAL
1.01 SECTION INCLUDES
A. PIPE, PIPE FITTINGS, SPECIALTIES, AND CONNECTIONS FOR PIPING SYSTEMS.
1. SANITARY SEWER.
2. DOMESTIC WATER.
3. STORM WATER.
4. PIPE HANGERS AND SUPPORTS.
5. MANUFACTURED SLEEVE-SEAL SYSTEMS.
1.02 RELATED REQUIREMENTS
A. SECTION 08 3100 - ACCESS DOORS AND PANELS.
B. SECTION 22 0516 - EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING.
C. SECTION 22 0553 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT.
1.03 REFERENCE STANDARDS
A. ANSI Z21.22 - AMERICAN NATIONAL STANDARD FOR RELIEF VALVES AND AUTOMATIC GAS SHUTOFF DEVICES FOR HOT WATER SUPPLY SYSTEMS; 2015.
B. ASME B16.18 - CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS; 2012.
C. ASME B16.22 - WROUGHT COPPER AND COPPER ALLOY SOLDER-JOINT PRESSURE FITTINGS; 2013.
D. ASME B31.9 - BUILDING SERVICES PIPING; 2014.
E. ASME BPVC-IV - BOILER AND PRESSURE VESSEL CODE, SECTION IV - RULES FOR CONSTRUCTION OF HEATING BOILERS; 2017.

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Engineer of Record
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CPH, INC.
CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	CPH
Drawn:	CPH
Checked:	CPH
Job No.:	M7030.1
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PLUMBING SPECIFICATIONS
LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
P001

F. ASTM B32 - STANDARD SPECIFICATION FOR SOLDER METAL; 2008 (REAPPROVED 2014).

G. ASTM B88 - STANDARD SPECIFICATION FOR SEAMLESS COPPER WATER TUBE; 2016.

H. ASTM B88M - STANDARD SPECIFICATION FOR SEAMLESS COPPER WATER TUBE (METRIC); 2016.

I. ASTM B813 - STANDARD SPECIFICATION FOR LIQUID AND PASTE FLUXES FOR SOLDERING OF COPPER AND COPPER ALLOY TUBE; 2016.

J. ASTM B828 - STANDARD PRACTICE FOR MAKING CAPILLARY JOINTS BY SOLDERING OF COPPER AND COPPER ALLOY TUBE AND FITTINGS; 2016.

K. ASTM D1785 - STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC PIPE, SCHEDULES 40, 80, AND 120; 2015, WITH EDITORIAL REVISION (2018).

L. ASTM D2241 - STANDARD SPECIFICATION FOR POLY (VINYL CHLORIDE) (PVC) PRESSURE-RATED PIPE (SDR SERIES); 2015.

M. ASTM D2466 - STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC PIPE FITTINGS, SCHEDULE 40; 2017.

N. ASTM D2564 - STANDARD SPECIFICATION FOR SOLVENT CEMENTS FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC PIPING SYSTEMS; 2012.

O. ASTM D2855 - STANDARD PRACTICE FOR THE TWO-STEP (PRIMER & SOLVENT CEMENT) METHOD OF JOINING POLY (VINYL CHLORIDE) (PVC) OR CHLORINATED POLY (VINYL CHLORIDE) (CPVC) PIPE AND PIPING COMPONENTS WITH TAPERED SOCKETS; 2015.

P. AWWA C651 - DISINFECTING WATER MAINS; 2014.

Q. CISPI 301 - STANDARD SPECIFICATION FOR HUBLESS CAST IRON SOIL PIPE AND FITTINGS FOR SANITARY AND STORM DRAIN, WASTE AND VENT PIPING APPLICATIONS; 2009 (REVISED 2012).

R. CISPI 310 - SPECIFICATION FOR COUPLING FOR USE IN CONNECTION WITH HUBLESS CAST IRON SOIL PIPE AND FITTINGS FOR SANITARY AND STORM DRAIN, WASTE, AND VENT PIPING APPLICATIONS; 2011 (REVISED 2012).

S. MSS SP-58 - PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN, MANUFACTURE, SELECTION, APPLICATION, AND INSTALLATION; 2009.

T. NSF 61 - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS; 2017.

U. NSF 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT; 2016.

1.04 QUALITY ASSURANCE

A. PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODES.

B. VALVES: MANUFACTURER'S NAME AND PRESSURE RATING MARKED ON VALVE BODY.

C. IDENTIFY PIPE WITH MARKING INCLUDING SIZE, ASTM MATERIAL CLASSIFICATION, ASTM SPECIFICATION, POTABLE WATER CERTIFICATION, WATER PRESSURE RATING.

1.05 DELIVERY, STORAGE, AND HANDLING

A. PROVIDE TEMPORARY END CAPS AND CLOSURES ON PIPING AND FITTINGS. MAINTAIN IN PLACE UNTIL INSTALLATION.

B. PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS, COMPLETING SECTIONS OF THE WORK, AND ISOLATING PARTS OF COMPLETED SYSTEM.

1.06 FIELD CONDITIONS

A. DO NOT INSTALL UNDERGROUND PIPING WHEN BEDDING IS WET OR FROZEN.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. POTABLE WATER SUPPLY SYSTEMS: PROVIDE PIPING, PIPE FITTINGS, AND SOLDER AND FLUX (IF USED), THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT; LABEL PIPE AND FITTINGS.

2.02 SANITARY SEWER PIPING, ABOVE GRADE

A. CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT.
1. FITTINGS: CAST IRON.
2. JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.

B. PVC PIPE: ASTM D1785 SCHEDULE 40, OR ASTM D2241 SDR 26 WITH NOT LESS THAN 150 PSI (1 034 KPA) PRESSURE RATING.
1. FITTINGS: ASTM D2466, PVC.
2. JOINTS: SOLVENT WELDED, WITH ASTM D2564 SOLVENT CEMENT.

2.03 DOMESTIC WATER PIPING, ABOVE GRADE

A. COPPER TUBE: ASTM B88 (ASTM B88M), TYPE K (A), DRAWN (H).
1. FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE.
2. JOINTS: ASTM B32, ALLOY SN95 SOLDER.

2.04 PIPE HANGERS AND SUPPORTS

A. PROVIDE HANGERS AND SUPPORTS THAT COMPLY WITH MSS SP-58.
1. IF TYPE OF HANGER OR SUPPORT FOR A PARTICULAR SITUATION IS NOT INDICATED, SELECT APPROPRIATE TYPE USING MSS SP-58 RECOMMENDATIONS.
2. OVERHEAD SUPPORTS: INDIVIDUAL STEEL ROD HANGERS ATTACHED TO STRUCTURE OR TO TRAPEZE HANGERS.
3. TRAPEZE HANGERS: WELDED STEEL CHANNEL FRAMES ATTACHED TO STRUCTURE.
4. VERTICAL PIPE SUPPORT: STEEL RISER CLAMP.
5. FLOOR SUPPORTS: CONCRETE PIER OR STEEL PEDESTAL WITH FLOOR FLANGE; FIXTURE ATTACHMENT.

B. PLUMBING PIPING - DRAIN, WASTE, AND VENT:
1. HANGERS FOR PIPE SIZES 1/2 INCH (15 MM) TO 1-1/2 INCHES (40 MM): MALLEABLE IRON, ADJUSTABLE SWIVEL, SPLIT RING.
2. HANGERS FOR PIPE SIZES 2 INCHES (50 MM) AND OVER: CARBON STEEL, ADJUSTABLE, CLEVIS.
3. WALL SUPPORT FOR PIPE SIZES TO 3 INCHES (80 MM): CAST IRON HOOK.
4. FLOOR SUPPORT: CAST IRON ADJUSTABLE PIPE SADDLE, LOCK NUT, NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.

C. PLUMBING PIPING - WATER:
1. HANGERS FOR PIPE SIZES 1/2 INCH (15 MM) TO 1-1/2 INCHES (40 MM): MALLEABLE IRON, ADJUSTABLE SWIVEL, SPLIT RING.
2. HANGERS FOR COLD PIPE SIZES 2 INCHES (50 MM) AND OVER: CARBON STEEL, ADJUSTABLE, CLEVIS.
3. HANGERS FOR HOT PIPE SIZES 2 INCHES (50 MM) TO 4 INCHES (100 MM): CARBON STEEL, ADJUSTABLE, CLEVIS.
4. WALL SUPPORT FOR PIPE SIZES TO 3 INCHES (80 MM): CAST IRON HOOK.
5. FLOOR SUPPORT FOR COLD PIPE: CAST IRON ADJUSTABLE PIPE SADDLE, LOCK NUT, NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.

2.05 MANUFACTURED SLEEVE-SEAL SYSTEMS

A. MANUFACTURERS:
1. THE METRAFLEX COMPANY; METRASEAL: WWW.METRAFLEX.COM/#SLE.

B. MODULAR/MECHANICAL SEAL:
1. SYNTHETIC RUBBER INTERLOCKING LINKS CONTINUOUSLY FILL ANNULAR SPACE BETWEEN PIPE AND WALL/CASING OPENING.
2. PROVIDE WATERTIGHT SEAL BETWEEN PIPE AND WALL/CASING OPENING.
3. ELASTOMER ELEMENT SIZE AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. GLASS REINFORCED PLASTIC PRESSURE END PLATES.

2.06 RELIEF VALVES

A. PRESSURE:
1. MANUFACTURERS:

A. CLA-VAL CO: WWW.CLA-VAL.COM.

B. WATTS REGULATOR COMPANY: WWW.WATTSREGULATOR.COM.
2. ANSI Z21.22, AGA CERTIFIED, BRONZE BODY, TEFLON SEAT, STEEL STEM AND SPRINGS, AUTOMATIC, DIRECT PRESSURE ACTUATED.

B. TEMPERATURE AND PRESSURE:
1. MANUFACTURERS:

A. CLA-VAL CO: WWW.CLA-VAL.COM.

B. WATTS REGULATOR COMPANY: WWW.WATTSREGULATOR.COM.
2. ANSI Z21.22, AGA CERTIFIED, BRONZE BODY, TEFLON SEAT, STAINLESS STEEL STEM AND SPRINGS, AUTOMATIC, DIRECT PRESSURE ACTUATED, TEMPERATURE RELIEF MAXIMUM 210 DEGREES F (98.9 DEGREES C), CAPACITY ASME BPVC-IV CERTIFIED AND LABELLED.

PART 3 EXECUTION

3.01 EXAMINATION

A. VERIFY THAT EXCAVATIONS ARE TO REQUIRED GRADE, DRY, AND NOT OVER-EXCAVATED.

3.02 PREPARATION

A. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.

B. REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE, BEFORE ASSEMBLY.

C. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.

3.03 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.

C. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT. ROUTE PARALLEL AND PERPENDICULAR TO WALLS.

D. INSTALL PIPING TO MAINTAIN HEADROOM, CONSERVE SPACE, AND NOT INTERFERE WITH USE OF SPACE.

E. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.

F. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. REFER TO SECTION 22 0516.

G. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.

H. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED.
1. COORDINATE SIZE AND LOCATION OF ACCESS DOORS WITH SECTION 08 3100.

I. INSTALL VENT PIPING PENETRATING ROOFED AREAS TO MAINTAIN INTEGRITY OF ROOF ASSEMBLY.

J. PROVIDE SUPPORT FOR UTILITY METERS IN ACCORDANCE WITH REQUIREMENTS OF UTILITY COMPANIES.

K. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. REFER TO SECTION 22 0523.

L. COPPER PIPE AND TUBE: MAKE SOLDERED JOINTS IN ACCORDANCE WITH ASTM B828, USING SPECIFIED SOLDER, AND FLUX MEETING ASTM B813; IN POTABLE WATER SYSTEMS USE FLUX ALSO COMPLYING WITH NSF 61 AND NSF 372.

M. PVC PIPE: MAKE SOLVENT-WELDED JOINTS IN ACCORDANCE WITH ASTM D2855.

N. SLEEVE PIPES PASSING THROUGH PARTITIONS, WALLS AND FLOORS.

O. PIPE HANGERS AND SUPPORTS:
1. INSTALL IN ACCORDANCE WITH ASME B31.9.
2. PLACE HANGERS WITHIN 12 INCHES (300 MM) OF EACH HORIZONTAL ELBOW.
3. WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION, PROVIDE MULTIPLE OR TRAPEZE HANGERS.

P. MANUFACTURED SLEEVE-SEAL SYSTEMS:
1. INSTALL MANUFACTURED SLEEVE-SEAL SYSTEMS IN SLEEVES LOCATED IN GRADE SLABS AND EXTERIOR CONCRETE WALLS AT PIPING ENTRANCES INTO BUILDING.
2. PROVIDE SEALING ELEMENTS OF THE SIZE, QUANTITY, AND TYPE REQUIRED FOR THE PIPING AND SLEEVE INNER DIAMETER OR PENETRATION DIAMETER.
3. LOCATE PIPING IN CENTER OF SLEEVE OR PENETRATION.
4. INSTALL FIELD ASSEMBLED SLEEVE-SEAL SYSTEM COMPONENTS IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING.
5. TIGHTEN BOLTING FOR A WATER-TIGHT SEAL.
6. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3.04 APPLICATION

A. INSTALL UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS.

B. INSTALL BRASS MALE ADAPTERS EACH SIDE OF VALVES IN COPPER PIPED SYSTEM. SOLDER ADAPTERS TO PIPE.

C. INSTALL BALL VALVES FOR SHUT-OFF AND TO ISOLATE EQUIPMENT, PART OF SYSTEMS, OR VERTICAL RISERS.

D. INSTALL BALL VALVES FOR THROTTLING, BYPASS, OR MANUAL FLOW CONTROL SERVICES.

3.05 TOLERANCES

A. DRAINAGE PIPING: ESTABLISH INVERT ELEVATIONS WITHIN 1/2 INCH (10 MM) VERTICALLY OF LOCATION INDICATED AND SLOPE TO DRAIN AT MINIMUM OF 1/4 INCH PER FOOT (1:50) SLOPE.

B. WATER PIPING: SLOPE AT MINIMUM OF 1/32 INCH PER FOOT (1:400) AND ARRANGE TO DRAIN AT LOW POINTS.

3.06 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

A. PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED AND CLEAN.

B. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM, THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.

C. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 PERCENT OF OUTLETS.

D. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS.

E. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT.

F. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L.

G. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING, FROM 10 PERCENT OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH AWWA C651.

3.07 SCHEDULES

A. PIPE HANGER SPACING:
1. METAL PIPING:

A. PIPE SIZE: 1/2 INCHES (15 MM) TO 1-1/4 INCHES (32 MM):
1) MAXIMUM HANGER SPACING: 6.5 FT (2 M).
2) HANGER ROD DIAMETER: 3/8 INCHES (9 MM).

B. PIPE SIZE: 1-1/2 INCHES (40 MM) TO 2 INCHES (50 MM):
1) MAXIMUM HANGER SPACING: 10 FT (3 M).
2) HANGER ROD DIAMETER: 3/8 INCH (9 MM).

C. PIPE SIZE: 2-1/2 INCHES (65 MM) TO 3 INCHES (75 MM):
1) MAXIMUM HANGER SPACING: 10 FT (3 M).
2) HANGER ROD DIAMETER: 1/2 INCH (13 MM).

2. PLASTIC PIPING:

A. ALL SIZES:
1) MAXIMUM HANGER SPACING: 6 FT (1.8 M).
2) HANGER ROD DIAMETER: 3/8 INCH (9 MM).

SECTION 22 1006

PLUMBING PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. CLEANOUTS.

B. WATER HAMMER ARRESTORS.

C. MIXING VALVES.

1.02 REFERENCE STANDARDS

A. NSF 61 - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS; 2017.

B. NSF 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT; 2016.

C. PDI-WH 201 - WATER HAMMER ARRESTERS; 2010.

1.03 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH NOT LESS THAN THREE YEARS DOCUMENTED EXPERIENCE.

1.04 DELIVERY, STORAGE, AND HANDLING

A. ACCEPT SPECIALTIES ON SITE IN ORIGINAL FACTORY PACKAGING. INSPECT FOR DAMAGE.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. SPECIALTIES IN POTABLE WATER SUPPLY SYSTEMS: PROVIDE PRODUCTS THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT.

2.02 CLEANOUTS

A. MANUFACTURERS:
1. JAY R. SMITH MANUFACTURING COMPANY: WWW.JAYRSMITH.COM.
2. JOSAM COMPANY: WWW.JOSAM.COM.
3. ZURN INDUSTRIES, LLC: WWW.ZURN.COM.

B. CLEANOUTS AT INTERIOR FINISHED FLOOR AREAS (CO-3):
1. LACQUERED CAST IRON BODY WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR, THREADED TOP ASSEMBLY, AND ROUND GASKETED SCORED COVER IN SERVICE AREAS AND ROUND GASKETED DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS.

C. CLEANOUTS AT INTERIOR FINISHED WALL AREAS (CO-4):
1. LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKETED COVER, AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW.

D. CLEANOUTS AT INTERIOR UNFINISHED ACCESSIBLE AREAS (CO-5): CALKED OR THREADED TYPE. PROVIDE BOLTED STACK CLEANOUTS ON VERTICAL RAINWATER LEADERS.

2.03 WATER HAMMER ARRESTORS

A. MANUFACTURERS:
1. JAY R. SMITH MANUFACTURING COMPANY: WWW.JAYRSMITH.COM.
2. WATTS REGULATOR COMPANY, A PART OF WATTS WATER TECHNOLOGIES: WWW.WATTSREGULATOR.COM.
3. ZURN INDUSTRIES, LLC: WWW.ZURN.COM.

B. WATER HAMMER ARRESTORS:
1. STAINLESS STEEL CONSTRUCTION, BELLOWS TYPE SIZED IN ACCORDANCE WITH PDI-WH 201, PRECHARGED SUITABLE FOR OPERATION IN TEMPERATURE RANGE MINUS 100 TO 300 DEGREES F (MINUS 73 TO 149 DEGREES C) AND MAXIMUM 250 PSI (1700 KPA) WORKING PRESSURE.

2.04 MIXING VALVES

A. THERMOSTATIC MIXING VALVES:
1. MANUFACTURERS:

A. HONEYWELL INTERNATIONAL INC: YOURHOME.HONEYWELL.COM.

B. LEONARD VALVE COMPANY: WWW.LEONARDVALVE.COM.
2. VALVE: CHROME PLATED CAST BRASS BODY, STAINLESS STEEL OR COPPER ALLOY BELLOWS, INTEGRAL TEMPERATURE ADJUSTMENT.
3. ACCESSORIES:

A. CHECK VALVE ON INLETS.

B. VOLUME CONTROL SHUT-OFF VALVE ON OUTLET.

C. STEM THERMOMETER ON OUTLET.

D. STRAINER STOP CHECKS ON INLETS.

PART 3 EXECUTION

3.01 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.

C. INSTALL FLOOR CLEANOUTS AT ELEVATION TO ACCOMMODATE FINISHED FLOOR.

D. INSTALL APPROVED POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR; ON BOILER FEED WATER LINES, JANITOR ROOMS, FIRE SPRINKLER SYSTEMS, PREMISE ISOLATION, IRRIGATION SYSTEMS, FLUSH VALVES, INTERIOR AND EXTERIOR HOSE BIBBS.

E. INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING TO LAVATORY SINKS.

SECTION 22 3000

PLUMBING EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. WATER HEATERS:
1. COMMERCIAL ELECTRIC.

1.02 REFERENCE STANDARDS

A. UL 174 - STANDARD FOR HOUSEHOLD ELECTRIC STORAGE TANK WATER HEATERS; CURRENT EDITION, INCLUDING ALL REVISIONS.

1.03 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE TYPE OF PRODUCTS SPECIFIED IN THIS SECTION, WITH MINIMUM THREE YEARS OF DOCUMENTED EXPERIENCE.

B. CERTIFICATIONS:
1. WATER HEATERS: NSF APPROVED.
2. ELECTRIC WATER HEATERS: UL LISTED AND LABELED TO UL 174.
3. PRODUCTS REQUIRING ELECTRICAL CONNECTION: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC., AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

1.04 DELIVERY, STORAGE, AND HANDLING

A. PROVIDE TEMPORARY INLET AND OUTLET CAPS. MAINTAIN CAPS IN PLACE UNTIL INSTALLATION.

1.05 WARRANTY

A. PROVIDE FIVE YEAR MANUFACTURER WARRANTY FOR DOMESTIC WATER HEATERS.

PART 2 PRODUCTS

2.01 WATER HEATERS

A. MANUFACTURERS:
1. A.O. SMITH WATER PRODUCTS CO: WWW.HOTWATER.COM.
2. RHEEM MANUFACTURING COMPANY: WWW.RHEEM.COM.

B. COMMERCIAL ELECTRIC:
1. TYPE: FACTORY-ASSEMBLED AND WIRED, ELECTRIC, VERTICAL STORAGE.
2. PERFORMANCE:

A. REFER TO DRAWINGS.
3. ELECTRICAL CHARACTERISTICS:

A. REFER TO DRAWINGS.
4. TANK: GLASS LINED WELDED STEEL; 4 INCH (100 MM) DIAMETER INSPECTION PORT, THERMALLY INSULATED WITH MINIMUM 2 INCHES (50 MM) GLASS FIBER ENCASED IN CORROSION-RESISTANT STEEL JACKET; BAKED-ON ENAMEL FINISH.
5. CONTROLS: AUTOMATIC IMMERSION WATER THERMOSTAT; EXTERNALLY ADJUSTABLE TEMPERATURE RANGE FROM 60 TO 180 DEGREES F (16 TO 82 DEGREES C), FLANGED OR SCREW-IN NICHROME ELEMENTS, HIGH TEMPERATURE LIMIT THERMOSTAT.
6. ACCESSORIES:

A. WATER CONNECTIONS: BRASS.

B. DIP TUBE: BRASS.

C. DRAIN VALVE.

D. ANODE: MAGNESIUM.

E. TEMPERATURE AND PRESSURE RELIEF VALVE: ASME LABELED.
7. HEATING ELEMENTS: FLANGE-MOUNTED IMMERSION ELEMENTS; INDIVIDUAL ELEMENTS SHEATHED WITH INCOLOY CORROSION-RESISTANT METAL ALLOY, RATED LESS THAN 75 W/SQ IN (11.6 W/SQ M).

PART 3 EXECUTION

3.01 INSTALLATION

A. INSTALL PLUMBING EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AS REQUIRED BY CODE, AND COMPLYING WITH CONDITIONS OF CERTIFICATION, IF ANY.

B. COORDINATE WITH PLUMBING PIPING AND RELATED FUEL PIPING WORK TO ACHIEVE OPERATING SYSTEM.

C. DOMESTIC HOT WATER HEATERS:
1. INSTALL DOMESTIC WATER HEATER WITH CLEARANCE FOR REMOVAL WITHOUT DISTURBING OTHER INSTALLED EQUIPMENT OR PIPING.
2. SUPPORT UNIT WALL MOUNTED SHELF..
3. PIPE RELIEF VALVES AND DRAINS TO NEAREST FLOOR DRAIN OR MOP SINK.

D. DOMESTIC WATER STORAGE TANKS:
1. PROVIDE STEEL PIPE SUPPORT, INDEPENDENT OF BUILDING STRUCTURAL FRAMING MEMBERS.
2. CLEAN AND FLUSH PRIOR TO DELIVERY TO SITE. SEAL UNTIL PIPE CONNECTIONS ARE MADE.

SECTION 22 4000

PLUMBING FIXTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. WATER CLOSETS.

B. LAVATORIES.

C. SERVICE SINKS.

D. UNDER-LAVATORY PIPE SUPPLY COVERS.

E. ELECTRIC WATER COOLERS.

1.02 REFERENCE STANDARDS

A. ADA STANDARDS - AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; 2010.

B. ASME A112.18.9 - PROTECTORS/INSULATORS FOR EXPOSED WASTE AND SUPPLIES ON ACCESSIBLE FIXTURES; 2011.

C. ASTM C1822 - STANDARD SPECIFICATION FOR INSULATING COVERS ON ACCESSIBLE LAVATORY PIPING; 2015.

D. ASHRAE STD 18 - METHODS OF TESTING FOR RATING DRINKING-WATER COOLERS WITH SELF-CONTAINED MECHANICAL REFRIGERATION; 2013.

E. ASME A112.6.1M - SUPPORTS FOR OFF-THE-FLOOR PLUMBING FIXTURES FOR PUBLIC USE; 1997 (REAFFIRMED 2017).

F. ASME A112.18.1 - PLUMBING SUPPLY FITTINGS; 2012.

G. ASME A112.19.2 - CERAMIC PLUMBING FIXTURES; 2013.

H. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.

I. ICC A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES; 2017.

J. NSF 61 - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS; 2017.

K. NSF 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT; 2016.

1.03 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE TYPE OF PRODUCTS SPECIFIED IN THIS SECTION, WITH MINIMUM THREE YEARS OF DOCUMENTED EXPERIENCE.

1.04 REGULATORY REQUIREMENTS

A. PRODUCTS REQUIRING ELECTRICAL CONNECTION: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC., AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

1.05 DELIVERY, STORAGE, AND HANDLING

A. ACCEPT FIXTURES ON SITE IN FACTORY PACKAGING. INSPECT FOR DAMAGE.

B. PROTECT INSTALLED FIXTURES FROM DAMAGE BY SECURING AREAS AND BY LEAVING FACTORY PACKAGING IN PLACE TO PROTECT FIXTURES AND PREVENT USE.

1.06 WARRANTY

A. PROVIDE FIVE YEAR MANUFACTURER WARRANTY FOR ELECTRIC WATER COOLER.

PART 2 PRODUCTS

2.01 GENERAL

A. POTABLE WATER SYSTEMS: PROVIDE PLUMBING FITTINGS AND FAUCETS THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT; LABEL PIPE AND FITTINGS.

2.02 TANK TYPE WATER CLOSETS

A. TANK TYPE WATER CLOSET MANUFACTURERS:
1. AMERICAN STANDARD, INC: WWW.AMERICANSTANDARD-US.COM/#SLE.
2. KOHLER COMPANY: WWW.KOHLER.COM.
3. ZURN INDUSTRIES, INC: WWW.ZURN.COM.

B. BOWL: ASME A112.19.2; FLOOR MOUNTED, SIPHON JET, VITREOUS CHINA, 16.5 INCHES (420 MM) HIGH, CLOSE-COUPLED CLOSET COMBINATION WITH ELONGATED RIM, INSULATED VITREOUS CHINA CLOSET TANK WITH FITTINGS AND LEVER FLUSHING VALVE, BOLT CAPS, VANDALPROOF COVER LOCKING DEVICE.
1. WATER CONSUMPTION: MAXIMUM 1.28 GALLONS (4.8 LITERS) PER FLUSH.

C. SEAT MANUFACTURERS:
1. AMERICAN STANDARD, INC: WWW.AMERICANSTANDARD-US.COM/#SLE.
2. BEMIS MANUFACTURING COMPANY: WWW.BEMISMFG.COM.
3. CHURCH SEAT COMPANY: WWW.CHURCHSEATS.COM.

D. SEAT: SOLID WHITE PLASTIC, OPEN FRONT, EXTENDED BACK, LESS COVER, COMPLETE WITH SELF-SUSTAINING HINGE.

E. HANDLE HEIGHT: 44 INCHES (1117 MM) OR LESS.

2.03 LAVATORIES

A. LAVATORY MANUFACTURERS:
1. AMERICAN STANDARD, INC: WWW.AMERICANSTANDARD-US.COM/#SLE.
2. KOHLER COMPANY: WWW.KOHLER.COM.
3. ZURN INDUSTRIES, INC: WWW.ZURN.COM.

B. VITREOUS CHINA WALL HUNG BASIN: ASME A112.19.2; VITREOUS CHINA WALL HUNG LAVATORY, WITH 4 INCH (100 MM) HIGH BACK, RECTANGULAR BASIN WITH SPLASH LIP, FRONT OVERFLOW, AND SOAP DEPRESSION.
1. DRILLING CENTERS: 4 INCH (100 MM).

C. SUPPLY FAUCET: ASME A112.18.1; CHROME PLATED COMBINATION SUPPLY FITTING WITH POP-UP WASTE, WATER ECONOMY AERATOR WITH MAXIMUM FLOW OF 0.5 GALLON PER MINUTE (LOW-FLOW) (1.9 LITERS PER MINUTE (LOW-FLOW)), INDEXED HANDLES.

D. ACCESSORIES:
1. CHROME PLATED 17 GAGE, 0.0538 INCH (1.37 MM) BRASS P-TRAP WITH CLEAN-OUT PLUG AND ARM WITH ESCUTCHEON.
2. OFFSET WASTE WITH PERFORATED OPEN STRAINER.
3. WHEEL HANDLE STOPS.
4. RIGID SUPPLIES.
5. CARRIER:

A. MANUFACTURERS:
1) JOSAM COMPANY: WWW.JOSAM.COM.
2) ZURN INDUSTRIES, INC: WWW.ZURN.COM.

B. ASME A112.6.1M; CAST IRON AND STEEL FRAME WITH TUBULAR LEGS, LUGS FOR FLOOR AND WALL ATTACHMENT, THREADED STUDS FOR FIXTURE HANGER, BEARING PLATE AND STUDS.

2.04 UNDER-LAVATORY PIPE SUPPLY COVERS

A. MANUFACTURERS:
1. PLUMBEREX SPECIALTY PRODUCTS, INC; _____: WWW.PLUMBEREX.COM/#SLE.

B. BASIS OF DESIGN: PLUMBEREX SPECIALTY PRODUCTS, INC; WWW.PLUMBEREX.COM/#SLE.
1. SLIM FIT UNDER-LAVATORY INSULATORS (NON-SEWN): PLUMBEREX TRAP GEAR.

C. GENERAL:
1. INSULATE EXPOSED DRAINAGE PIPING INCLUDING HOT, COLD AND TEMPERED WATER SUPPLIES UNDER LAVATORIES OR SINKS PER ADA STANDARDS.
2. CONSTRUCTION: 1/8 INCH (3.2 MM) PVC WITH ANTIMICROBIAL, ANTIFUNGAL AND UV RESISTANT PROPERTIES.

A. COMPLY WITH ASTM E84 FOR FLAME AND SMOKE DEVELOPMENT.

B. COMPLY WITH ASTM C1822 TYPE I FOR COVERS ON ACCESSIBLE LAVATORY PIPING.

C. COMPLY WITH ASME A112.18.9 FOR COVERS ON ACCESSIBLE LAVATORY PIPING.

D. COMPLY WITH ICC A117.1.
3. COLOR: HIGH GLOSS WHITE.

2.05 ELECTRIC WATER COOLERS

A. ELECTRIC WATER COOLER MANUFACTURERS:
1. ELKAY MANUFACTURING COMPANY: WWW.ELKAY.COM.
2. HAWS CORPORATION: WWW.HAWSCO.COM.
3. OASIS, A LYNN TILTON COMPANY: WWW.OASISCOOLERS.COM

B. WATER COOLER: ELECTRIC, MECHANICALLY REFRIGERATED; SURFACE HANDICAPPED MOUNTED; STAINLESS STEEL TOP, VINYL ON STEEL BODY, ELEVATED ANTI-SQUIRT BUBBLER WITH STREAM GUARD, AUTOMATIC STREAM REGULATOR, PUSH BUTTON, MOUNTING BRACKET; INTEGRAL AIR COOLED CONDENSER AND STAINLESS STEEL GRILLE.
1. CAPACITY: 8 GALLONS PER HOUR (30.3 LITERS PER HOUR) OF 50 DEGREES F (10 DEGREES C) WATER WITH INLET AT 80 DEGREES F (27 DEGREES C) AND ROOM TEMPERATURE OF 90 DEGREES F (32 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASHRAE STD 18.
2. ELECTRICAL: 115 V, 60 HERTZ COMPRESSOR, 6 FOOT (2 M) CORD AND PLUG FOR CONNECTION TO ELECTRIC WIRING SYSTEM INCLUDING GROUNDING CONNECTOR.

2.06 SERVICE SINKS

A. BOWL: 36 BY 24 BY 10 INCH (900 BY 600 BY 250 MM) HIGH WHITE MOLDED STONE, FLOOR MOUNTED, WITH ONE INCH (25 MM) WIDE SHOULDERS, VINYL BUMPER GUARD, STAINLESS STEEL STRAINER.

B. TRIM: ASME A112.18.1 EXPOSED WALL TYPE SUPPLY WITH CROSS HANDLES, SPOUT WALL BRACE, VACUUM BREAKER, HOSE END SPOUT, STRAINERS, ECCENTRIC ADJUSTABLE INLETS, INTEGRAL SCREWDRIVER STOPS WITH COVERING CAPS AND ADJUSTABLE THREADED WALL FLANGES.

C. ACCESSORIES:
1. 5 FEET (1.5 M) OF 1/2 INCH (13 MM) DIAMETER PLAIN END REINFORCED PLASTIC HOSE.
2. HOSE CLAMP HANGER.
3. MOP HANGER.

PART 3 EXECUTION

3.01 EXAMINATION

A. VERIFY THAT WALLS AND FLOOR FINISHES ARE PREPARED AND READY FOR INSTALLATION OF FIXTURES.

B. VERIFY THAT ELECTRIC POWER IS AVAILABLE AND OF THE CORRECT CHARACTERISTICS.

3.02 PREPARATION

A. ROUGH-IN FIXTURE PIPING CONNECTIONS IN ACCORDANCE WITH MINIMUM SIZES INDICATED IN FIXTURE ROUGH-IN SCHEDULE FOR PARTICULAR FIXTURES.

3.03 INSTALLATION

A. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICING AND CLEANING.

B. PROVIDE CHROME PLATED RIGID OR FLEXIBLE SUPPLIES TO FIXTURES WITH LOOSE KEY STOPS, REDUCERS, AND ESCUTCHEONS.

C. INSTALL COMPONENTS LEVEL AND PLUMB.

D. INSTALL AND SECURE FIXTURES IN PLACE WITH WALL SUPPORTS AND BOLTS.

E. SOLIDLY ATTACH WATER CLOSETS TO FLOOR WITH LAG SCREWS. LEAD FLASHING IS NOT INTENDED HOLD FIXTURE IN PLACE.

3.04 ADJUSTING

A. ADJUST STOPS OR VALVES FOR INTENDED WATER FLOW RATE TO FIXTURES WITHOUT SPLASHING, NOISE, OR OVERFLOW.

3.05 CLEANING

A. CLEAN PLUMBING FIXTURES AND EQUIPMENT.

3.06 PROTECTION

A. PROTECT INSTALLED PRODUCTS FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS.

B. DO NOT PERMIT USE OF FIXTURES BY CONSTRUCTION PERSONNEL.

C. REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE DATE OF SUBSTANTIAL COMPLETION.

3.07 SCHEDULES

A. FIXTURE HEIGHTS: INSTALL FIXTURES TO HEIGHTS ABOVE FINISHED FLOOR AS INDICATED.
1. WATER CLOSET:
a. ACCESSIBLE: 18 INCHES (455 MM) TO TOP OF SEAT.
b. FIXTURE ROUGH-IN
1. WATER CLOSET (TANK TYPE):
A. COLD WATER: 1/2 INCH (15 MM).
B. WASTE: 4 INCH (100 MM).
C. VENT: 2 INCH (50 MM).
2. LAVATORY:
a. HOT WATER: 1/2 INCH (15 MM).
b. COLD WATER: 1/2 INCH (15 MM).
c. WASTE: 1-1/2 INCH (40 MM).
d. VENT: 1-1/4 INCH (32 MM).
3. SERVICE SINK:
a. HOT WATER: 1/2 INCH (15 MM).
b. COLD WATER: 1/2 INCH (15 MM).
c. WASTE: 3 INCH (80 MM).
d. VENT: 1-1/2 INCH (40 MM).
4. ELECTRIC WATER COOLER:
a. COLD WATER: 1/2 INCH (15 MM).
b. WASTE: 1-1/4 INCH (32 MM).
c. VENT: 1-1/4 INCH (32 MM).

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A Full Service A & E Firm
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
Ph:(407) 322-6841
Plans Prepared By :
CPH, Inc.
State of Florida Licenses:
Architect No. AA2600926
Engineer No. 3215
Landscape No. LC0000298
Surveyor No. 7143
Engineer of Record
##/##/2021
TBD-Plum License
CPH, INC.

CELEBRATING 40 +YEARS cph

No.	DATE	Revision

Designed:	Designer
Drawn:	Author
Checked:	Checker
Job No.:	M7030.1
10/22/2021	© 2021

PLUMBING SPECIFICATIONS

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

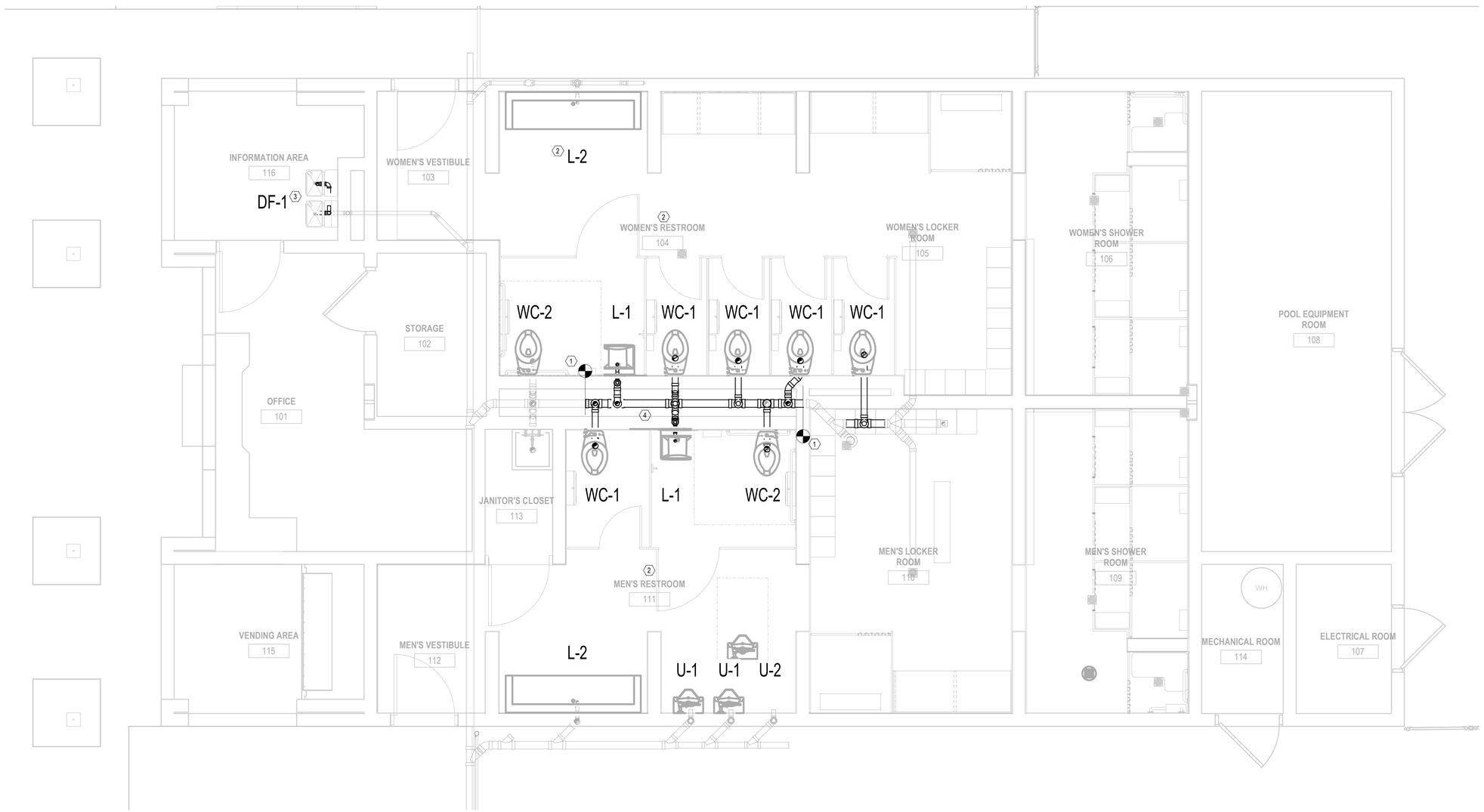
Sheet No.
P002

GENERAL NOTES

1. COORDINATE PLUMBING WITH ALL TRADES.

KEY NOTES

1. CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY MAIN.
2. INSTALL NEW LAVATORIES AND WATER CLOSETS TO UNDERGROUND SANITARY LINE.
3. REPLACE EXISTING DRINKING FOUNTAIN WITH NEW. CONNECT TO EXISTING SANITARY.
4. CONNECT NEW VENT PIPING TO EXISTING VENT LINE. REUSE AVAILABLE TEE FITTINGS.CONTRACTOR TO VERIFY EXISTING PIPING LOCATION PRIOR TO CONSTRUCTION.



1 FIRST FLOOR PLAN SANITARY

3/8" = 1'-0"

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Engineer of Record
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FIRST FLOOR PLAN SANITARY

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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Sheet No.
P201

GENERAL NOTES

1. COORDINATE PLUMBING WITH ALL TRADES.

KEY NOTES

1. EXISTING 2-1/2" VENT THROUGH ROOF. CONTRACTOR TO FIELD VERIFY LOCATION.

1 ROOF PLAN PLUMBING

3/8" = 1'-0"

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Engineer of Record
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ROOF PLAN PLUMBING

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

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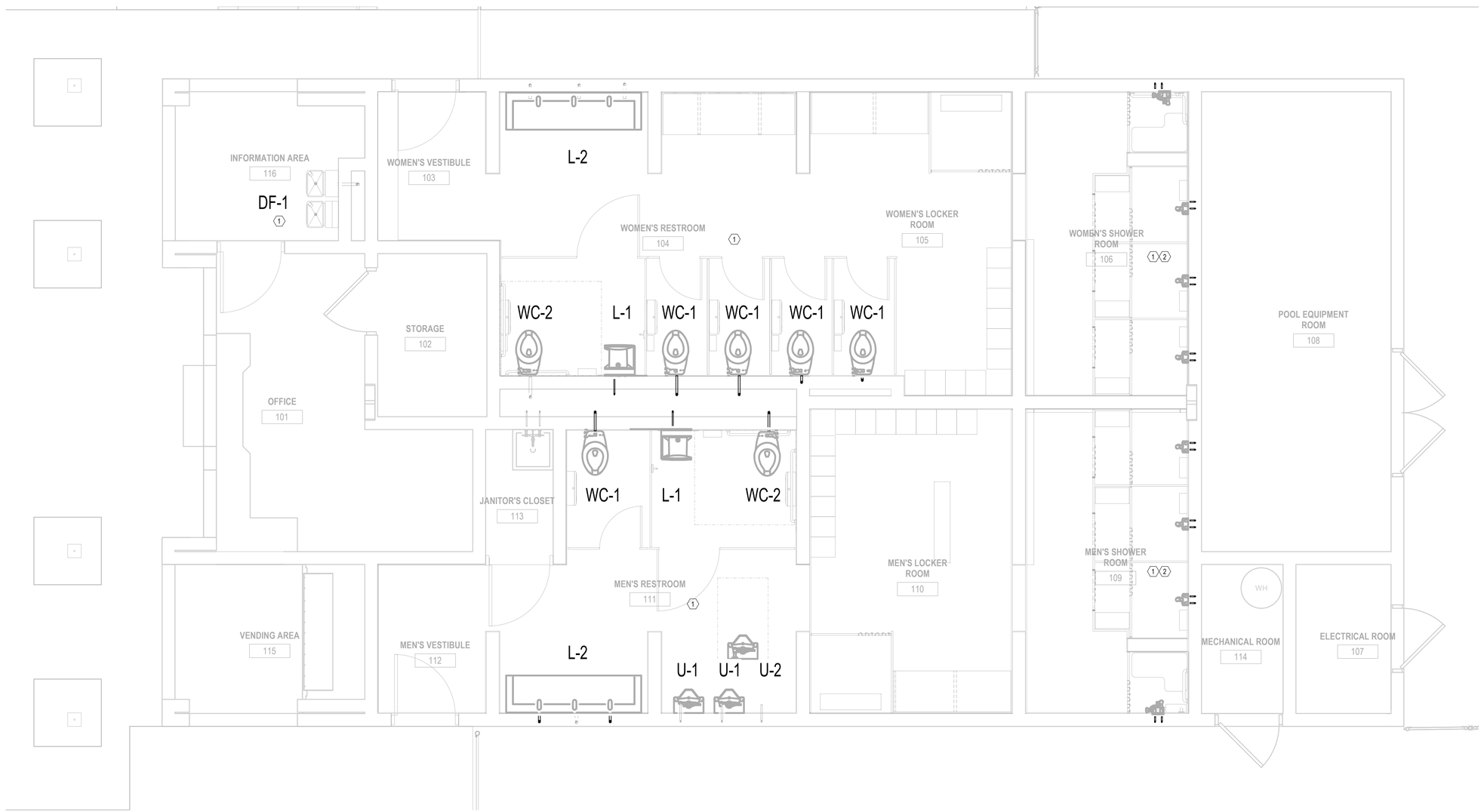
Sheet No.
P210

GENERAL NOTES

1. COORDINATE PLUMBING WITH ALL TRADES.

KEY NOTES

1. CONNECT DOMESTIC COLD WATER INTO NEWLY INSTALLED LAVATORIES, WATER CLOSETS, SHOWERS AND DRINKING FOUNTAIN. CONNECT INTO EXISTING DOMESTIC WATER LINE ABOVE CEILING.
2. CONNECT ALL SHOWERS TO EXISTING WATER HEATER.



1 FIRST FLOOR PLAN DOMESTIC WATER

3/8" = 1'-0"

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FIRST FLOOR PLAN DOMESTIC WATER

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1200 NORTH UNSER STREET
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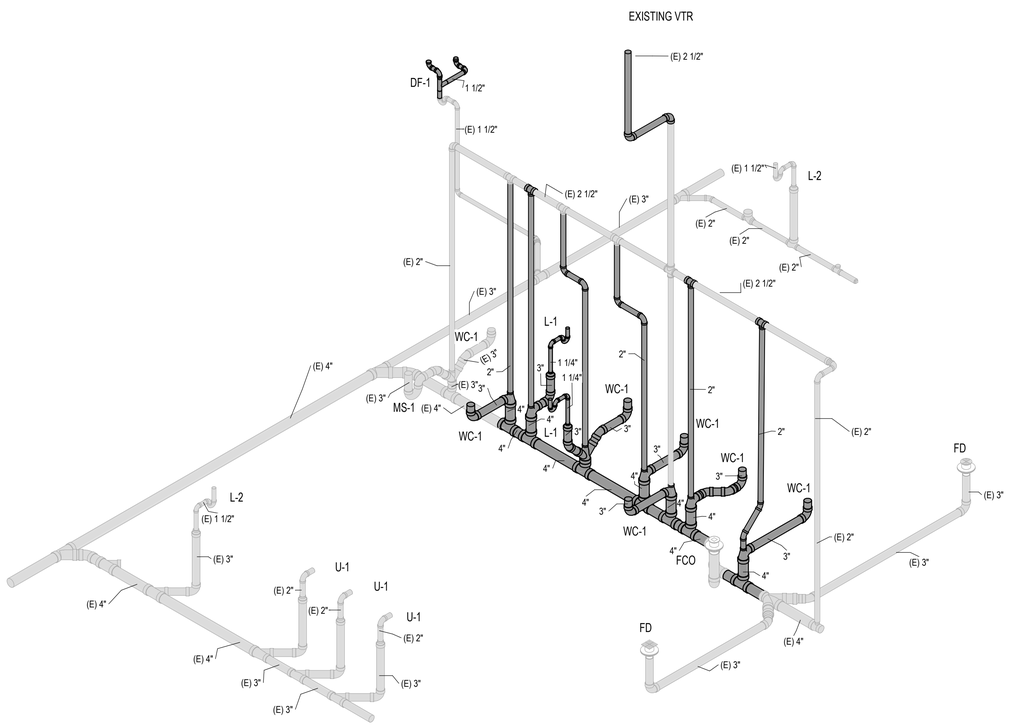
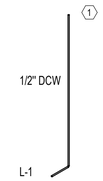
Sheet No.
P301

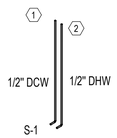


1 PLUMBING SANITARY RISER

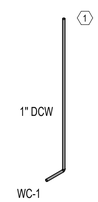
NTS



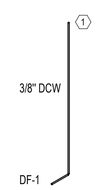
2 TYPICAL WATER RISER: LAVATORY



3 TYPICAL WATER RISER: SHOWER



4 TYPICAL WATER RISER: WATER CLOSET



5 TYPICAL WATER RISER: LAVATORY

GENERAL NOTES

1. -----

KEY NOTES

1. CONNECT INTO EXISTING DOMESTIC COLD WATER LINE.
2. CONNECT INTO EXISTING WATER HEATER

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PLUMBING SANITARY RISER

LINCOLN AVENUE COMMUNITY PARK & POOL RENOVATION
1200 NORTH UNSER STREET
MOUNT DORA, FLORIDA 32757

NOT FOR CONSTRUCTION

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
P501

EVERGREEN
CONSTRUCTION

November 11, 2021

Mr. Chet Cramer
City of Mount Dora
510 North Baker Street
Mount Dora, Florida 32757

RE: **Continuing Services Contract – Lincoln Park Pool Phase II Renovations**
Mount Dora, Florida

Dear Chet,

Thank you for the opportunity to submit our 60% budgetary pricing for the Lincoln Park Pool Phase II renovations based upon the drawings from CPH, Inc. dated October 22, 2021. Our pricing is based upon the list of pricing clarifications attached hereto. A five percent (5%) contingency is included for unknowns.

Locker Room Renovation & Handicap Ramp	**$ 309,300**
Trellis & Splash Pad Additions	**$ 296,700**
Total Cost of Improvements	**$ 606,000**

We have estimated approximately two-(2) months to complete each portion of the improvements and our budget numbers are based upon them proceeding separately. If all the work was released at one time, that might result in some savings.

If you should have any questions regarding this pricing, please do not hesitate to contact the undersigned.

Sincerely,

Richard Charleson
Pre-Construction Director

cc: Mark Starcher – Evergreen
Chris Sadowski - Evergreen

30941 Suneagle Drive, Mt. Dora, Florida 32757

GENERAL EXCLUSIONS AND QUALIFICATIONS

This proposal is based on architectural, structural, mechanical, plumbing, and electrical 60% Construction Plans from CPH, Inc. dated October 22, 2021.

General Qualifications:

a) Contract to utilize existing Continuing Services Contract with the City of Mount Dora, Florida.
b) Design fees are paid for by the Owner.
c) Utility and communications authority fees associated with account establishment, connections, relocations, transformers, permanent and temporary meters are excluded.
d) Builder's all-risk insurance and any deductibles are excluded.
e) The cost for a performance and payment bond is excluded.
f) The splash pad deck was priced as regular concrete. No information was provided by CPH, Inc. on whether an upgrade was desired:
    - To provide a non-slip coating such as Life Floor Pool Deck Coating, ADD $37,300.
    - To provide colored concrete finish, ADD $9,000
g) Includes patching of the existing restroom roof only around the skylight openings. No replacement of the existing roof material is included.
h) Epoxy flooring in the restrooms to be Everlast Epoxy or approved equal.

General Exclusions:

a) Performance & Payment Bond
b) Builder's Risk Insurance
c) Low voltage data cabling and devices
d) Security systems.
e) Lightning protection

EVERGREEN CONSTRUCTION

November 11, 2021

CONCEPTUAL ESTIMATE OF CONSTRUCTION COST
Locker Room & Handicap Ramp

Division	Description	Amount
01	General Conditions	
	• Staffing (2 months)	41,300
	• Construction Utilities / Toilets	1,200
	• Office Supplies / Telephone	2,000
	• Cleanup / Dumpsters	2,200
	• Safety / Vehicles/ Punchlist Survey	3,300
	Third Party Testing & Inspection	400
02	Building Demolition	6,700
	Concrete Handicap Ramp	1,600
03	Cast-in-Place Concrete	800
04	Masonry	1,200
05	Metals	
	• Aluminum Railing	5,600
06	Wood & Plastics	
	• Solid Surface Counters	5,400
07	Roofing & Waterproofing	
	• Roof Patching	1,200
	• Caulking	300
08	Doors & Windows	
	• Aluminum Doors	9,900
	• Aluminum Window	1,000
	• Skylights	4,200
09	Finishes	
	• Tile Work	30,000
	• Epoxy Flooring	13,200
	• Painting	3,800
10	Specialties	
	• Lockers & Benches	9,200
	• Toilet & Shower Compartments	14,400
	• Toilet Accessories	9,500
15	Mechanical	
	• Plumbing	72,100
	• HVAC	7,100

16	Electrical • Power & Lighting	19,400
	Subtotal	$ 267,000
	Other • General Liability Insurance • Contingency at 5% • Contractor's Fee • Performance & Payment Bond • Building Permit	3,500 13,500 22,800 Excluded 2,500
	Total	$ 309,300

EVERGREEN CONSTRUCTION

November 11, 2021

CONCEPTUAL ESTIMATE OF CONSTRUCTION COST
Splash Pad & Trellis

Division	Description	Amount
01	General Conditions • Staffing (2 months) • Construction Utilities / Toilets • Office Supplies / Telephone • Cleanup / Dumpsters • Safety / Vehicles/ Punchlist Survey Third Party Testing & Inspection	 41,300 1,200 2,000 2,200 3,300 800
02	Site Work • Demolition • Earthwork • Site Amenities • Pavers • Landscaping • Fencing	 5,600 900 200 3,500 500 4,300
03	Cast-in-Place Concrete	13,800
04	Masonry	3,600
06	Wood & Plastics • Rough Carpentry	 7,600
07	Roofing & Waterproofing • Roofing • Flashing, Sheet Metal, & Aluminum Soffits	 7,500 5,600
09	Finishes • Painting	 900
11	Equipment • Water Features • Splash Pad Deck Coating	 142,200 Excluded
16	Electrical • Power & Lighting	 9,100

	Subtotal	$ 256,100
	Other • General Liability Insurance • Contingency at 5% • Contractor's Fee • Performance & Payment Bond • Building Permit	 3,300 13,000 21,800 Excluded 2,500
	Total	$ 296,700

CITY OF MOUNT DORA

Leisure Services
900 N. Donnelly St.
Mount Dora, FL 32757
352-735-7183
Fax: 352-735-3681
E-mail: parksandrec@cityofmountdora.com

DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: Approval of 60% Design and Construction Documents for the Triangle Elementary Joint-use Playground

---

Introduction:
This is a request for Board members to provide feedback regarding the 60% design and construction documents for the Triangle Elementary Joint-use Playground.

Discussion:
The City of Mount Dora Parks and Recreation Master Plan identified a recreation level of service gap in the area of Triangle Elementary School. This neighborhood lacks a park within reasonable walking distance and an availability of space for the placement of a new park. Recognizing this need, the City of Mount Dora and the Lake County School District entered into an interlocal agreement, approved by City Council and executed on May 10, 2021, allowing for the development of a joint-use park with Triangle Elementary School, to be used by the students during school hours and open to the general public after hours and on weekends.

With Resolution No. 2021-11, City Council, supported by the opinion of the Parks and Recreation Advisory Board, authorized GAI Consultants to create engineering and design documents for the project. These documents are now at the 60% completion stage and are attached for Board members' review.

The completion date for this project is August 31, 2022.

Budget Impact:
In FY 20/21, the City budgeted $1,000,000 for the Triangle Elementary Joint-use Playground project.

Strategic Impact:

This project fulfills several aspects of Objective 2.3 of the City's Strategic Plan: Develop a parks and recreation system guided by the principles of the Parks and Recreation Master Plan, especially Objective 2.3.4: Invest in an equitable Parks system.

Recommendation

Board members provide feedback on the 60% construction documents.

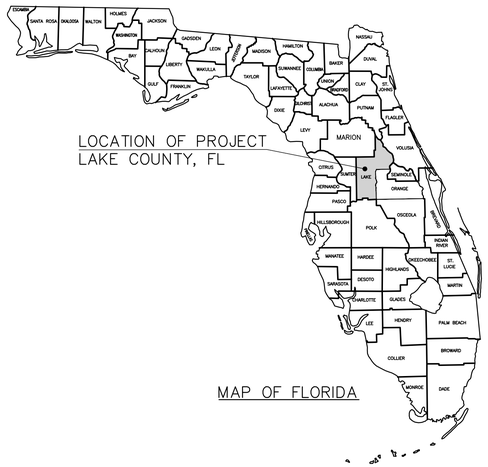
Attachment(s):

1. Attachment 1 A171115.09 - Triangle Elem Park 60% CDs - 2021.10.29

Prepared by:	Jeanann Hand, Administrative Coordinatior	
Reviewed by:	Troy Shonk, Leisure Services Administrator	Approved - 11/10/2021
	Amy Jewell, Leisure Services Director	Final Approval - 11/10/2021

TRIANGLE ELEMENTARY PARK
CITY OF MOUNT DORA
LAKE COUNTY, FLORIDA

PARCEL ID 26-19-26-0001-000-00101



PREPARED BY

gai consultants

EB 9951

618 EAST SOUTH STREET SUITE 700
ORLANDO, FLORIDA 32801
PHONE: (407) 423-8398

LEGAL DESCRIPTION:

THE SOUTH 660 FEET OF THE EAST 1,188 FEET OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 26, TOWNSHIP 19 SOUTH, RANGE 26 EAST, CITY OF MOUNT DORA, LAKE COUNTY, FLORIDA, LESS ROAD RIGHT-OF-WAY.

PROJECT TEAM:

OWNER:
CITY OF MOUNT DORA
1995 DONNELLY STREET
MOUNT DORA, FL 32757
PHONE: (352) 735-7161 EXT. 3100
CONTACT: AMY JEWELL
EMAIL: JEWELLA@CI.MOUNT-DORA.FL.US

CIVIL ENGINEER:
GAI CONSULTANTS, INC.
618 E. SOUTH STREET, SUITE 700
ORLANDO, FL 32801
PHONE: (407) 423-8398
CONTACT: W. SCOTT LAND, P.E.
EMAIL: S.LAND@GAICONSULTANTS.COM

LANDSCAPE ARCHITECT:
COMMUNITY SOLUTIONS GROUP
GAI CONSULTANTS, INC.
618 E. SOUTH STREET, SUITE 700
ORLANDO, FL 32801
PHONE: (321) 319-3042
CONTACT: KEVIN AUST, PLA, LEED AP
EMAIL: K.AUST@GAICONSULTANTS.COM

SURVEYOR:
GAI CONSULTANTS, INC
1301 RIVERPLACE BOULEVARD, SUITE 900
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GEOTECHNICAL ENGINEER:
PHONE:
CONTACT:
EMAIL:

OCTOBER 2021

LOCATION MAP
NTS

UTILITY PROVIDERS:

POTABLE WATER:
CITY OF MOUNT DORA
900 NORTH DONNELLY STREET
MOUNT DORA, FL 32757
PH: (352) 735-7151

RECLAIMED WATER:
CITY OF MOUNT DORA
900 NORTH DONNELLY STREET
MOUNT DORA, FL 32757
PH: (352) 735-7151

SANITARY SEWER:
CITY OF MOUNT DORA
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STORMWATER:
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900 NORTH DONNELLY STREET
MOUNT DORA, FL 32757
PH: (352) 735-7151

GAS:
TECO PEOPLES GAS
MEADOW ST.
LEESBURG, FL 34748
PH: (352) 728-9800

ELECTRIC:
CITY OF LEESBURG
2010 GRIFFIN ROAD
LEESBURG, FL 34748
PH: (352) 728-9830

FIBER& TELEPHONE:
CENTURYLINK
PO BOX 770339
WINTER GARDEN FL 34777
PH: (352) 326-1757

FIRE PROTECTION:
CITY OF LEESBURG FIRE DEPARTMENT
501 W. MEADOW ST.
LEESBURG, FL 34748
PH: (352) 728-9800

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NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
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MOUNT DORA, LAKE COUNTY, FL

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MOUNT DORA, FL 32757
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OWNER
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CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER A171115.09
DATE: 10.29.2021
SCALE:
DRAWN BY: ADL
CHECKED BY: AJS

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
COVER

SHEET NUMBER
C-000

GENERAL NOTES:

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL FIELD LOCATE, VERIFY, AND FURTHER IDENTIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (IDENTIFIED ON THE PLANS OR NOT) AFFECTING ANY COMPONENT OF WORK HEREIN PRIOR TO THE START OF ANY CONSTRUCTION. DISCREPANCIES, CONFLICTS, OR POTENTIAL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION.

2. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO THE START OF ANY CONSTRUCTION. SPECIAL ATTENTION SHALL BE TAKEN WITH THOSE EXISTING UTILITIES, STRUCTURES OR FEATURES (IDENTIFIED ON THE PLANS OR NOT) THAT MAY POTENTIALLY CONFLICT OR CROSS PROPOSED DESIGN COMPONENTS (I.E., STORM SEWERS, SANITARY SEWERS, WATER MAINS, EXFILTRATION, BUILDING FOUNDATIONS, ETC) AND ANY DISCREPANCIES, CONFLICTS, OR POTENTIAL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION. ANY COST ASSOCIATED WITH THE LOCATION OF EXISTING UTILITIES AS OUTLINED ABOVE IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. ERRORS OR OMISSIONS – DO NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION DISCOVERED IN THE CONTRACT DOCUMENTS, BUT IMMEDIATELY NOTIFY THE ENGINEER OF SUCH DISCOVERY. THE ENGINEER WILL THEN MAKE SUCH CORRECTIONS AND INTERPRETATIONS AS NECESSARY TO REFLECT THE ACTUAL SPIRIT AND INTENT OF THE CONTRACT DOCUMENTS.

4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48–HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES.

5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTS, AND ANY DISTURBED MONUMENTS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE BY A SURVEYOR SELECTED BY THE OWNER.

6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND PASS ALL TESTING OR INSPECTION REQUIREMENTS PRIOR TO ROAD BASE AND/OR SURFACE IMPROVEMENT CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS AND TESTING ACCORDING TO AGENCY REQUIREMENTS.

8. ALL WORK PERFORMED SHALL COMPLY WITH THE CODES, STANDARDS, REGULATIONS AND REQUIREMENTS OF THE MUNICIPALITY'S LAND DEVELOPMENT CODE AND ENGINEERING STANDARDS, PLUS CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND UTILITY CONSTRUCTION, PLUS THE REGULATIONS AND ORDINANCES OF THE VARIOUS OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.

9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION COULD RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS IS FOR CONFORMITY WITH THE CONTRACT DOCUMENTS AND DOES NOT INCLUDE IN–DEPTH CHECK FOR THE ABILITY OF THE CONTRACTOR TO PERFORM THE WORK IN A SAFE OR EFFICIENT MANNER. THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DIMENSIONAL ACCURACY TO ENSURE FIELD FIT AND CONFORMITY OF THE VARIOUS COMPONENTS AND DETAILS.

10. CONTRACTOR SHALL KEEP ENGINEER ADVISED OF CONSTRUCTION SCHEDULE CHANGES SO THAT ENGINEER CAN SCHEDULE PERIODIC SITE VISITS AT APPROPRIATE TIMES IN ORDER TO PROVIDE CONSTRUCTION CERTIFICATIONS TO JURISDICTIONAL AGENCIES.

11. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON OR ADJACENT TO THE SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

12. SAFETY:
    - A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
    - B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
    - C. THE MAINTENANCE OF TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MUNICIPALITY'S TRANSPORTATION ENGINEERING BUREAU AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
    - D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
    - E. CONTACT THE MUNICIPALITY FOR MANAGEMENT OF TRAFFIC CONTROL REVIEW PRIOR AND DURING CONSTRUCTION.

13. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR DEWATERING. DISCHARGE WATER FROM DEWATERING SHALL BE CLEAR WITH NO VISIBLE SOIL PARTICLES. DISCHARGE WATER FROM DEWATERING SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH THE NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, OR CREATE PONDING. THE OPERATION SHALL NOT CAUSE ANY DAMAGE TO ANY PORTION OF THE WORK COMPLETED, OR IN PROGRESS. THE DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. A PRE–WORK MEETING WILL BE CONDUCTED WITH THE GEOTECHNICAL FIRM, THE OWNER, THE CONTRACTOR, AND THE ENGINEER PRIOR TO BEGINNING ANY SITE EXCAVATION.

14. CONFORMITY WITH WORK – IN THE EVENT THAT THE ENGINEER FINDS THAT THE CONTRACTOR HAS USED MATERIAL OR PRODUCED A FINISH PRODUCT THAT IS NOT REASONABLY CLOSE IN CONFORMITY WITH THE CONTRACT DOCUMENTS, I.E. UNSATISFACTORY PRODUCT, THE CONTRACTOR SHALL REMOVE AND REPLACE OR OTHERWISE CORRECT THE WORK OR MATERIALS AT NO EXPENSE TO THE OWNER.

15. "AS–BUILT" FOR THE PROPOSED CONSTRUCTION SHALL BE PROVIDED UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS–BUILT" INFORMATION CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR. ONCE PROVIDED WITH "AS–BUILTS" AND AFTER OBSERVATION OF THE ENTIRE PROJECT, SHOULD THE ENGINEER DETERMINE THAT THE CONTRACTOR HAS SATISFACTORILY COMPLETED THE WORK, THE ENGINEER WILL GIVE THE CONTRACTOR WRITTEN NOTICE OF FINAL ACCEPTANCE.

16. PIPE LENGTHS SHOWN ARE APPROXIMATE AND SHOULD BE ORDERED FROM FIELD STAKED QUANTITIES. PLAN PIPE LENGTHS ARE MEASURED FROM CONNECTION POINT TO END OF THE LINES FOR WATER LINES.

17. WHEN APPLICABLE, THE CONTRACTOR MUST REVIEW "MAINTENANCE OF UTILITY SERVICE PLAN" WITH ENGINEER AND UTILITY COMPANY PRIOR TO START OF UTILITY CONSTRUCTION.

GOVERNING SPECIFICATIONS:

1. NO CONSTRUCTION MAY COMMENCE UNTIL APPROPRIATE PERMITS ARE OBTAINED FROM ALL MUNICIPAL, COUNTY, STATE, AND/OR FEDERAL AGENCIES.

2. GRADING, DRAINAGE AND PAVING MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MUNICIPAL ENGINEERING STANDARD MANUAL (ESM) AND THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS SUPPLEMENTED BY DETAILS AND NOTES ON THESE PLANS.

3. CONFORM WITH REQUIREMENTS OF THE NOTICE OF INTENT (NOI) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE PERMIT AS ISSUED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).

4. CONFORM WITH REQUIREMENTS OF THE ENVIRONMENTAL RESOURCES PERMIT (ERP) AS ISSUED BY THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT (SJRWMD).

5. SANITARY SEWER SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE UTILITY PROVIDER STANDARD ENGINEERING DETAILS AS SUPPLEMENTED BY THESE PLANS AND THE THE PERMIT CONDITIONS LISTED IN THE FDEP SEWER EXTENSION PERMIT.

6. WATER DISTRIBUTION SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE UTILITY PROVIDER STANDARDS AND SPECIFICATIONS AS SUPPLEMENTED BY THESE PLANS AND THE PERMIT CONDITIONS LISTED IN THE FDEP WATER MAIN EXTENSION PERMIT.

48 HOURS BEFORE DIGGING
CALL
TOLL FREE
811
SUNSHINE STATE ONE CALL CENTER
WWW.CALLSUNSHINE.COM

CLEARING AND GRUBBING NOTES:

1. PRIOR TO CLEARING AND GRUBBING, ALL SILT FENCE EROSION CONTROL DEVICES AND SEDIMENT CONTROL BASINS AND/OR BMP'S SHALL BE INSTALLED AND OPERATIONAL.

2. ALL INDICATED MATERIALS TO BE CLEARED, GRUBBED AND REMOVED FROM THE CONSTRUCTION AREA INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: ALL TREES, STUMPS, ROOTS, BRUSH, TRASH, ORGANIC MATTER WITHIN THE SITE, CURBING, PAVING, MISCELLANEOUS STRUCTURES (IF ANY), AND OTHER DEBRIS.

3. GRUBBING SHALL CONSIST OF COMPLETELY REMOVING ROOTS, STUMPS, TRASH AND OTHER DEBRIS FROM SITE, SO THAT THE TOPSOIL IS FREE OF ROOTS AND DEBRIS. TOPSOIL IS TO BE LEFT SUFFICIENTLY CLEAN SO THAT FURTHER PICKING AND RAKING WILL NOT BE REQUIRED.

4. BURNING OF TREES, ROOTS, OR ANY KIND OF MATERIALS WILL NOT BE ALLOWED ANYWHERE ON THE SITE.

5. THE CONTRACTOR SHALL EXERCISE SPECIAL PRECAUTIONS FOR THE PROTECTION AND PRESERVATION OF TREES, SOD, FENCES, ETC., SITUATED WITHIN THE VICINITY OF THE PROJECT AREA OR TREE SAVE AREAS BUT NOT DIRECTLY WITHIN EXCAVATION AND/OR FILL LIMITS. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE AS A RESULT OF HIS OPERATIONS.

6. TREES WHICH ARE SEVERELY DAMAGED OR DESTROYED BY CLEARING OPERATIONS OUTSIDE THE CLEARING LIMITS WILL BE PAID FOR BY THE CONTRACTOR IN WHOLE. MINOR DAMAGE INFLICTED TO TREE BRANCHES AND TRUNKS WILL BE REPAIRED, AT NO COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING TREE PROTECTION FENCING AROUND TREE SAVE AREAS WITHIN THE SITE, AS SHOWN ON PLANS OR DIRECTED BY THE MUNICIPAL AUTHORITY. THE TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND REQUIREMENTS.

EXCAVATION, GRADING, AND PAVING NOTES:

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY.

3. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

4. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.

5. DISPOSAL OF ANY EXCESS EARTHWORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

7. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH A.D.A. STANDARDS.

8. CONTRACTOR SHALL SAW–CUT EXISTING PAVEMENT TO PROVIDE CLEAN JOINT. REMOVE EXISTING PAVEMENT FOR NEW INSTALLATION AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

9. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND PASS ALL TESTING OR INSPECTION REQUIREMENTS PRIOR TO ROAD BASE AND/OR SURFACE IMPROVEMENT CONSTRUCTION.

10. REFER TO THE CURRENT EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING CALLED FOR IN THESE PLANS.

11. REFER TO THE CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR SPECIFICATIONS ON PAVING MATERIALS.

12. CONTRACTOR TO PROVIDE A 1/2–IN. BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER WHERE CONCRETE ABUTS BUILDINGS, OTHER CONCRETE, OR OTHER RIGID MATERIALS.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED AT CONTRACTOR'S EXPENSE BY A SURVEYOR SELECTED BY THE OWNER.

14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE SOILS ENGINEER FOR APPLICABLE TESTING UPON COMPLETION OF THE WORK. THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

15. TESTING AND INSPECTION TO BE PERFORMED BY A QUALIFIED INDEPENDENT TESTING LABORATORY, UNDER THE SUPERVISION OF A REGISTERED ENGINEER, SPECIALIZING IN SOILS ENGINEERING. PERFORM ALL TESTING NECESSARY AS REQUIRED BY THESE PLANS AND THE VARIOUS PERMITTING AGENCIES. THE CONTRACTOR WILL PAY THE COSTS OF ALL INITIAL TESTING. SHOULD RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET SPECIFICATIONS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.

UTILITY SYSTEM NOTES:

1. CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY OWNERS AND FLORIDA'S "SUNSHINE ONE–CALL" SYSTEM 72–HRS PRIOR TO STARTING CONSTRUCTION. COST OF REPLACEMENT AND REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE CONTRACTOR'S RESPONSIBILITY.

2. WORK IN THE PUBLIC RIGHT–OF–WAY SHALL BE COORDINATED WITH GOVERNING AUTHORITIES. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND PAY REQUIRED FEES, AND COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS APPLICABLE TO CONSTRUCTION OF THE PROJECT.

3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR PERFORMING WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR INTERRUPTION OF ALL UTILITIES UNDER THE JURISDICTION OF THE UTILITY COMPANIES.

4. EXISTING OUT–OF–SERVICE BURIED UTILITIES ENCOUNTERED WITHIN THE PROPOSED PROJECT SHALL BE REMOVED WHEN WITHIN THE EXCAVATED AREA AND SLURRY FILLED BY THE CONTRACTOR ALONG OTHER AREAS WITHIN THE WORK ZONE. DISPOSITION AS DIRECTED BY THE UTILITY'S OWNER. NO ABANDONMENT OF UTILITY LINES ARE ALLOWED UNDER BUILDINGS WITHOUT THE PROJECT'S ENGINEERS APPROVAL.

5. CONFLICTS BETWEEN UNDERGROUND UTILITIES, I.E. WATER, ELECTRICAL, COMMUNICATIONS, GAS, AND STORM OR SANITARY SEWERS SHALL BE RESOLVED BY ADJUSTING THE UNDERGROUND UTILITIES AS NECESSARY, AND IS INCLUSIVE IN CONTRACTORS COST. GRAVITY SEWERS SHALL NOT BE ADJUSTED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND THE MUNICIPALITY'S WASTEWATER DIVISION.

6. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK WITH EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE A MINIMUM OF 72–HRS IN ADVANCE OF THE PROPOSED WORK, AND PRIOR TO SHOP DRAWINGS SUBMITTALS, WHEN APPLICABLE. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER IF THERE IS A CONFLICT. INFORMATION TO BE FURNISHED BY THE CONTRACTOR SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.

7. UTILITY APPURTENANCES SHALL MEET THE FOLLOWING REQUIREMENTS: A) BE AESTHETICALLY ACCEPTABLE. B) IN COMPLIANCE WITH INDUSTRY AND MANUFACTURER'S STANDARDS. C) PLACED IN AREA WITH THE MINIMUM INTERFERENCE TO THE OPERATIONAL AND MAINTENANCE OF THE SITE. D) NOT IN CONFLICT WITH OTHER FACILITIES AND AS CLOSE TO THE RIGHT–OF–WAY AS POSSIBLE.

8. CONTRACTOR SHALL PROVIDE FOR THE TEMPORARY SUPPORT AND PROTECTION OF EXISTING UTILITIES WITHIN THE WORK ZONE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUACY OF THESE METHODS I.E. ALL SHEETING, SHORING, AND BRACING SYSTEMS.

9. THE CONTRACTOR SHALL PROVIDE APPLICABLE TEST RESULTS FOR THE PURPOSE OF CERTIFICATIONS REQUIRED BY THE FDEP OR OTHER GOVERNING AGENCY HAVING JURISDICTION. TESTING AND CERTIFICATION SHALL INCLUDE BUT ARE NOT LIMITED TO: WATER LINE, SANITARY SEWERS, TRENCH BACKFILL AND COMPACTION, PAVING MATERIALS.

10. SANITARY SEWERS AND WATER MAINS SHALL NOT BE PLACED INTO SERVICE UNTIL A CLEARANCE LETTER/CERTIFICATION OF COMPLETION IS RECEIVED FROM FDEP FOR THE PROJECT.

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CONSULTANTS

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DRAWING SCALE AND NORTH ARROW

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
C-001

STORMWATER SYSTEM NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY INVERTS AND LOCATIONS OF THE EXISTING STORM SEWER SYSTEM PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DISCREPANCY IN INVERTS AND LOCATIONS EXIST.
2. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL CONSTRUCTION MATERIALS, METHODS, AND TESTING ARE TO CONFORM TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AND ITS CURRENT SUPPLEMENTS AND STANDARD DRAWING INDEX, PLUS THE MUNICIPAL AUTHORITY'S ENGINEERING STANDARDS AND SPECIFICATIONS, AS APPLICABLE.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN EXISTING STORM SEWER SYSTEM IN SERVICE.
4. SURFACE DRAINAGE SHALL BE DIVERTED FROM EXCAVATIONS, AND STOCKPILE AREAS SUCH THAT PROPER SITE CONDITIONS ARE MAINTAINED AND EROSION DUE TO RAIN RUN-OFF OR SEEPAGE IS PREVENTED OR MINIMIZED.
5. ALL DISTURBED SODDED AREAS IN THE VICINITY OF THE WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

STRIPING AND SIGNAGE NOTES

1. SIGNING AND PAVEMENT MARKINGS TO BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
2. COORDINATE AND PROVIDE FOR THE DISPOSITION AND PER PLAN REMOVAL OF EXISTING SIGNS WITH THE MUNICIPAL AUTHORITY.
3. EXISTING SIGNS THAT ARE TO REMAIN SHALL BE PROTECTED AND VISIBLE DURING THE COURSE OF CONSTRUCTION. EXISTING SIGNS WHICH ARE TO BE RELOCATED AND ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER/MUNICIPALITY.
4. CAUTION SHALL BE EXERCISED IN THE INSTALLATION OF POST MOUNTED ROAD SIDE SIGNS IN ORDER TO PREVENT DAMAGE TO BURIED UTILITIES. LOCATIONS SHALL CONFORM TO FDOT INDEX 700-010.
5. ENGINEER TO BE NOTIFIED WHEN SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS ARE IN CONFLICT WITH SIGNALS, LIGHTING, UTILITIES, ETC. LOCATION MAY BE SLIGHTLY ADJUSTED AS DIRECTED BY THE ENGINEER.
6. SIGNS SHALL BE CONSTRUCTED WITH TYPE III B HIGH PERFORMANCE PRISMATIC REFLECTIVE SHEETING, EXCEPT FOR "STOP", "WRONG-WAY", AND "DO-NOT-ENTER" WHICH SHALL BE TYPE VII SHEETING.
7. SIGN POST FOR ANY SINGLE COLUMN SIGNS SHALL BE A MINIMUM OF 3" DIA. CONFORMING TO FDOT INDEX 700-010 AND LISTED IN THE FDOT'S QUALIFIED PRODUCTS LIST (QPL). THE CONTRACTOR SHALL FIELD VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS PRIOR TO FABRICATION.
8. ALL SURFACES SHALL BE CLEANED PRIOR TO THE START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
9. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WATER BLASTING, OR OTHER APPROVED METHOD THAT WILL NOT MATERIALLY DAMAGE THE SURFACE TEXTURE OF THE PAVEMENT, AND WILL FULLY ELIMINATE ANY TRACE OF THE PREVIOUS MARKINGS. METHOD USED MUST RECEIVE PRE-APPROVAL OF THE MUNICIPAL AUTHORITY.
10. PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED ON THE FINAL ASPHALT SURFACE DURING THE INITIAL 30-DAY CURE PERIOD, AND FINAL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED AFTER THE 30-DAY CURING PERIOD. PAINTED PAVEMENT MARKINGS SHALL CONFORM TO FDOT SPEC. SECTION 710, AND THERMOPLASTIC TO SECTION 711.
11. PLACEMENT OF TURN ARROWS SHALL CONFORM TO FDOT INDEX 711-001.
12. CROSSWALKS SHALL BE 10-LF WIDE UNLESS OTHERWISE SHOWN ON THE PLANS, AND SHALL CONFORM TO FDOT INDEX 711-001.
13. ALL PERMANENT STRIPING SHALL BE INSTALLED PRIOR TO RETRO-REFLECTIVE PAVEMENT MARKERS (RPMS) INSTALLATION. PLACEMENT OF RPMS SHALL CONFORM TO FDOT STANDARD 17352.
14. CONTRACTOR SHALL COORDINATE WITH THE LOCAL PUBLIC TRANSIT AGENCY FOR BUS STOP OR RESPECTIVE SIGNS TO BE REMOVED OR RELOCATED.

ABBREVIATIONS:

A.D.A. – AMERICAN DISABILITY ACT

FDEP – FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FDOT – FLORIDA DEPARTMENT OF TRANSPORTATION

MUNICIPALITY – CITY OF MOUNT DORA

FOR STANDARD ABBREVIATIONS REFER TO THE FDOT STANDARD INDEX 001, UNLESS OTHERWISE NOTED ON PLANS.

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP
A GAI Consultants, Inc. Service Group
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
TRIANGLE ELEMENTARY PARK
MOUNT DORA, LAKE COUNTY, FL

CLIENT
MOUNT DORA LEISURE SERVICES
900 N. DONNELLY STREET
MOUNT DORA, FL 32757
352.735.7183 tel

OWNER
LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD
TAVARES, FL 32778
352.253.6500 tel

CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
C-002

CONSTRUCTION ACTIVITIES AND CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ABIDE BY ALL PERMIT CONDITIONS, INSPECTIONS, SCHEDULES, AND OTHER RELEVANT REGULATORY AGENCY RULES AND REGULATIONS.
2. BMPs: SYNTHETIC BALES OR SEDIMENT FILTER LOGS.
3. INLET PROTECTION: PERFORATED PIPE WRAPPED IN FILTER FABRIC (FILTER LOGS).
4. TEMPORARY SLOPE STABILIZATION: CONTRACTOR SHALL PROVIDE FOR THE SAFETY OF TEMPORARY SOIL EMBANKMENT AND SHORING REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
5. POTENTIAL POLLUTANTS DURING CONSTRUCTION: DELETERIOUS, TOXIC, OR CONTAMINATED MATERIAL, IF ENCOUNTERED, IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER AND DISPOSED OF IN APPROVED LANDFILL. CONTACT LOCAL EMERGENCY OFFICIALS REPRESENTATIVES IN CASE OF ANY SPILLS OR CONTAMINATION OF A CHEMICAL NATURE (CALL FDEP 407-894-7555) PRIOR TO ANY OTHER ACTION.
6. INSPECTIONS: CONTRACTOR TO INSPECT CONSTRUCTION SITE FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR TO PROVIDE AND MONITOR A RAIN GAUGE ON SITE AND RECORD DAILY RAINFALL AMOUNTS.
7. PERMANENT STORMWATER MANAGEMENT CONTROLS: RETENTION AND DETENTION/EXFILTRATION SYSTEMS, STORMWATER SEWER SYSTEM, PLUS STORMWATER CONTROL STRUCTURE IS TO PREVENT TRASH FROM GOING TO MUNICIPALITY'S DRAINAGE SYSTEM.
8. DEWATERING: IN GENERAL, WATER FROM CONTAMINATED AREAS ARE TO BE DISCHARGED TO SANITARY SEWER SYSTEM AND WATER FROM NON-CONTAMINATED AREAS ARE TO BE DISCHARGED INTO STORM SEWER SYSTEM. THE DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF F.D.E.P., THE NPDES PERMIT, AND THE GEOTECHNICAL REPORT.
9. DEWATERING: DEWATERING ACTIVITIES SHALL NOT RESULT IN THE DISCHARGE OF ANY WATER WITH TURBIDITY GREATER THAN 29 NTUS FROM THE SITE PER SECTION 6.14.01 (H) OF THE ESM.
10. CONTRACTOR SHALL MAKE AN EFFORT TO MINIMIZE THE AREA OF DISTURBANCE AND WILL BE RESPONSIBLE FOR ALL DAMAGES. ALL EXISTING SODDED AREAS DISTURBED DURING THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF SOD IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS WITHIN 7 DAYS OF FINAL GRADING.
11. SURFACE DRAINAGE SHALL BE DIVERTED FROM EXCAVATIONS AND STOCKPILE AREAS SUCH THAT PROPER SITE CONDITIONS ARE MAINTAINED AND EROSION DUE TO RAIN RUN-OFF OR SEEPAGE IS PREVENTED OR MINIMIZED.
12. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.
13. NO FERTILIZERS, HERBICIDES, OR PESTICIDES ARE TO BE USED ON-SITE WITHOUT PRIOR APPROVAL OF CITY STAFF.
14. AFTER ALL CONSTRUCTION IS COMPLETE, ALL STRUCTURES AND STORM SEWER PIPES IN THE SYSTEM SHALL BE CLEANED AND TEMPORARY PLUGS IN STRUCTURES SHALL BE REMOVED.
15. ADDITIONAL NOTES: IF NECESSARY, CONTRACTOR SHALL INSTALL TURBIDITY BARRIER, AND USE STREET SWEEPER TO CLEAN ANY OFF-SITE TRACKING OF SOIL. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL IF IT BECOMES NECESSARY TO MEET STATE AND LOCAL STANDARDS AND TO COMPLY WITH THIS PLAN.
16. WASTE DISPOSAL: ALL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTE SHALL BE PROPERLY CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THERE SHOULD BE NO DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO SURFACE WATERS OF THE STATE OR AN MS4.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS, AND ALL GENERAL CONSTRUCTION NOTES CONTAINED WITHIN THIS PLAN SET.
2. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO CONSTRUCTION AND MAINTAIN COPIES AT THE JOBSITE. HE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL THE REQUIRED CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS IS APPROXIMATE AND HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER/ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES, FIELD DETERMINE THE EXACT LOCATION OF UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY IF CONFLICTS EXIST. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITY AND ALL EXISTING UTILITIES SHALL BE PROTECTED.
4. THE CONTRACTOR SHALL COORDINATE ALL TREE REMOVALS REQUIRED BY CONSTRUCTION WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL STRIVE TO PROTECT AS MANY TREES AS POSSIBLE DURING CONSTRUCTION OPERATIONS. COORDINATE EFFORTS WITH AREA DEVELOPMENT PLANS.
5. THE CONTRACTOR IS ADVISED TO BRING ANY LAYOUT DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. COORDINATE WITH LOCAL EMERGENCY SERVICES AND PROVIDE EMERGENCY ACCESS CORRIDOR THROUGHOUT CONSTRUCTION.
7. CONTACT LOCAL ENVIRONMENTAL COMPLIANCE OFFICIAL FOR APPROVAL OF EROSION CONTROL MEASURES 24 HOURS PRIOR TO BEGINNING GRADE WORK.
8. MATERIALS INTERFERING WITH CONSTRUCTION SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.
9. ALL EXCESS DIRT, CLEARING DEBRIS, UNSUITABLE MATERIALS AND EXISTING ROADWAY MATERIAL RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE HAULED OFF IN A LEGAL MANNER.
10. THE CONTRACTOR SHALL PROVIDE A LEVEL GROUND SURFACE AREA ACCESSIBLE TO THE HAUL ROADS AND CONSTRUCTION ENTRANCE FOR MATERIAL LAY-DOWN AND CONSTRUCTION STAGING. THE AREA SHALL BE DELINEATED WITH SAFETY FENCING AND SILT FENCE SHALL BE INSTALLED ALONG THE DOWNHILL BOUNDARY.
11. CONTRACTOR SHALL CONFINE HIS OFF-SITE ACTIVITIES TO LIMITS OF CONSTRUCTION AS DEPICTED ON THE SITE PLAN (PROPOSED BY GAI CONSULTANTS.).
12. ANY PUBLIC LAND CORNER, WITHIN THE LIMITS OF CONSTRUCTION, IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE WITHOUT DELAY.
13. ALL REFERENCES TO PROPOSED CONSTRUCTION INDICATES CONSTRUCTION INCLUDED IN THIS CONTRACT.

TEMPORARY PROTECTION NOTES:

1. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
2. TEMPORARY SEEDING – AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY-DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE A MINIMUM OF 30 POUNDS PER ACRE.
3. TEMPORARY SEEDING AND MULCHING – SLOPES STEEPER THAN 6:1 THAT REQUIRE TEMPORARY SEEDING SHALL ADDITIONAL RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED ARE TO A DEPTH OF 4 INCHES.
4. TEMPORARY GRASSING – THE SEEDED OR THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITION FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
5. TEMPORARY REGRASSING – IF AFTER 14 DAYS THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR MUST IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF THE WATER QUALITY CRITERIA AND STANDARDS IN CHAPTERS 62-4, 62-302, F.A.C. ALL EROSION/SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988), AS WELL AS THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK, UNLESS A PROJECT-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED BY THE WATER MANAGEMENT DISTRICT IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, THE CONTRACTOR MUST IMPLEMENT THE NECESSARY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.
2. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14-DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
3. THE LOCATION AND TYPE OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE PROVIDED FOR GENERAL GUIDANCE TO THE CONTRACTOR. THE METHODS AND SEQUENCING OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR MAY REQUIRE MORE OR LESS EROSION CONTROL MEASURES THAN THAT DEPICTED TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE CONSTRUCTION ACTIVITIES.
4. EROSION/TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SEDIMENT OR SUSPENDED SOLIDS TO ADJACENT PROPERTIES, JURISDICTIONAL WETLANDS AND/OR RECEIVING WATER BODIES EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS. THE CONTRACTOR SHALL MAINTAIN THE EROSION/TURBIDITY CONTROL BARRIERS DAILY. THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR PROVIDING THE NECESSARY EROSION/TURBIDITY CONTROL FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PENALTIES IMPOSED BY THE PERMITTING AGENCIES FOR ANY EROSION, SHOALING, OR WATER QUALITY PROBLEMS RESULTANT TO CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SEDIMENTATION, SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL, A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND/OR ACCORDING TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR EROSION CONTROL APPLICATIONS AND ACCORDING TO THE APPLICABLE COUNTY WATER QUALITY CODE AND THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.
6. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEIVING WATER.
7. PRIOR TO BEGINNING THE CLEARING AND GRUBBING OF THE SITE, SYNTHETIC BALES SHALL BE STAKED TO THE GROUND ALONG THE PROPERTY LINE AT LOW AREAS IN ADDITION TO THE PERIMETER SILT FENCE TO PREVENT STORMWATER FROM WASHING ERODED SOIL FROM THE SITE.
8. THE SITE SHALL BE GRADED SUCH THAT ALL STORMWATER WILL BE DIRECTED INTO THE ON-SITE STORMWATER SYSTEM. SYNTHETIC BALES SHALL BE STAKED IN LOCATIONS WHERE WATER ENTERS THE SYSTEM TO FILTER OUT THE ERODED SOILS AND CONSTRUCTION FINES. CONTRACTOR SHALL MAKE PROVISIONS TO AVOID TRACKING DIRT AND CONSTRUCTION DEBRIS TO THE ROADWAY VIA TRUCK AND EQUIPMENT TIRES.
9. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MUNICIPALITY, AND FDOT STANDARDS AND SPECIFICATIONS, AND THE CONTRACT DRAWINGS.
10. CONTRACTOR SHALL REPLACE CLOGGED SECTIONS OF SILT FENCES AND PERFORATED PIPE WITH FABRIC SOCK AS NECESSARY TO MAINTAIN WATER PASSAGE.
11. CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL DURING INSTALLATION OF NEW CURBING AND DRIVEWAYS AS APPROVED BY THE ENGINEER.
12. CONTRACTOR SHALL TAKE CARE TO KEEP EXPOSED AREAS TO A MINIMUM POSSIBLE TIME DURING CONSTRUCTION.
13. ON-SITE CONTROL MEASURES SHALL BE APPLIED TO REDUCE EROSION AS SHOWN ON THE PLANS, DETAIL SHEETS AND IN ACCORDANCE WITH FDOT, FDEP AND THE MUNICIPALITY'S REGULATIONS FOR EROSION CONTROL MEASURES. STOCKPILING AND STORAGE OF MATERIALS SHOULD NOT BE LOCATED IN A MANNER TO IMPEDE FLOW OR CAUSE MATERIALS TO BE ERODED BY STORMWATER RUNOFF.
14. ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES AND MEASURES TO BE USED DURING CONSTRUCTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED IN AN EFFECTIVE CONDITION UNTIL SUCH TIME AS THE COMPLETION OF THE PERMANENT SYSTEM OR OTHER EROSION CONTROL MEASURES CAN ASSURE ADEQUATE EROSION AND SEDIMENT CONTROL.
15. NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT BODY OR STORMWATER COLLECTION FACILITY.
16. ALL EXCESS FILL MATERIAL WILL BE HAULED OFFSITE.
17. CONTRACTOR TO INSPECT EROSION/SEDIMENT CONTROL DEVICES DAILY AND WITHIN 24 HOURS OF EACH 0.5 INCH OR GREATER RAINFALL EVENT FOR EFFECTIVENESS. ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY.
18. ALL DESIGNATED ENTRANCES AND EXITS FOR THE CONSTRUCTION SITE SHALL BE STABILIZED USING FILTER FABRIC AND GRAVEL OR OTHER PRE-APPROVED METHODS TO PREVENT OFFSITE TRACKING OF SEDIMENTS.
19. SEDIMENTATION CONTROLS/ BMPs SHALL PREVENT STORMWATER RUNOFF WITH TURBIDITY GREATER THAN 29 NTUs FROM LEAVING THE CONSTRUCTION SITE.
20. SITE DUST CONTROL IS MANDATORY. CONTRACTOR SHALL EMPLOY BMP(S) SUCH AS: WIND SCREEN ON PERIMETER CONSTRUCTION FENCING, WATER MISTING OF DRY SOILS, ETC.

CONTRACTOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS A PART OF THIS CERTIFICATION."

SIGNATURE ____________________ DATE ________

PROJECT MANAGER ____________________

NAME AND TITLE ____________________

COMPANY ____________________

ADDRESS (CONTRACTING FIRM) ____________________

ADDRESS (CONSTRUCTION SITE) ____________________

TELEPHONE: ____________________
AREA CODE NUMBER

DEVELOPER CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS A PART OF THIS CERTIFICATION."

SIGNATURE ____________________ DATE ________

PROJECT MANAGER ____________________

NAME AND TITLE ____________________

COMPANY ____________________

ADDRESS (DEVELOPING FIRM) ____________________

ADDRESS (DEVELOPING SITE) ____________________

TELEPHONE: ____________________
AREA CODE NUMBER

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DRAWING SCALE AND NORTH ARROW

SHEET TITLE
SWPPP NOTES

SHEET NUMBER
C-003

Filename: Z:\INFRA\2017\A171115.09 - TRIANGLE ELEM PK DES\CAD\PRODUCTION DRAWINGS\A171115.09 - TRIANGLE ELEM - C-001 GENERAL NOTES.DWG
Last Modified by: ARLENE LAROCQUE
Last Plotted date: 10/29/2021 4:51 PM

STORMWATER POLLUTION PREVENTION NOTES:

LOCATION: THE 2.74 +/– ACRE SITE IS LOCATED IN THE CITY OF MOUNT DORA, LAKE COUNTY, FLORIDA

LIMITS OF CONSTRUCTION: 2.74± ACRES WILL BE DISTURBED DURING CONSTRUCTION.

CONSTRUCTION ACTIVITIES: CLEARING AND GRUBBING OF EXISTING SITE; GRADING OPERATIONS; CONSTRUCTION OF SWALES; CONSTRUCTION OF STRUCTURES AND AMENITIES.

SOIL TYPES: POMPANO SAND (42), ST. LUCIE SAND, 0 TO 8 PERCENT SLOPES (43) & TAVARES SAND, 0 TO 5 PERCENT SLOPES (45) ACCORDING TO THE USDA NRCS SOIL SURVEY OF LAKE COUNTY.

GENERAL CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE AROUND PERIMETER OF SITE. PROVIDE MINIMUM SITE DEMOLITION REQUIRED TO INSTALL SILT FENCE. INSTALL TEMP INLET PROTECTION.
2. GENERAL SITE CLEARING AND GRUBBING, AND DEMOLITION.
3. ROUGH GRADE SITE.
4. INSTALL STORMWATER DRAINAGE FACILITIES.
5. CONSTRUCT SITE STRUCTURES.
6. INSTALL LANDSCAPING.
7. REMOVE TEMP. PROTECTION SYSTEMS.

STORMWATER DISCHARGE:
STORMWATER WILL DISCHARGE TO THE CITY OF MOUNT DORA STORM SEWER SYSTEM AND WILL ULTIMATELY DISCHARGE TO LAKE DORA.

DEVELOPER CONTACT INFORMATION
CITY OF MOUNT DORA
1995 DONNELLY STREET
MOUNT DORA, FL 32757
PHONE: (352) 735–7161

NOTE TO CONTRACTOR

1. THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OF 1 ACRE OR MORE. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

TRIANGLE ELEMENTARY PARK
CITY OF MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE: _____

INSPECTOR'S QUALIFICATIONS: _____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABLIZED? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

TRIANGLE ELEMENTARY PARK
CITY MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE: _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

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TRIANGLE ELEMENTARY PARK
CITY OF MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

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TRIANGLE ELEMENTARY PARK
CITY OF MOUNT DORA, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN: _____

REASONS FOR CHANGES: _____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____

DATE: _____

PAGE 4 OF 4

NOT FOR CONSTRUCTION

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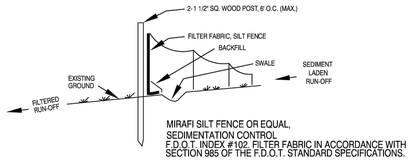
SHEET TITLE
SWPPP NOTES

SHEET NUMBER
C-004



MIRAFI SILT FENCE OR EQUAL, SEDIMENTATION CONTROL F.D.O.T. INDEX #102. FILTER FABRIC IN ACCORDANCE WITH SECTION 985 OF THE F.D.O.T. STANDARD SPECIFICATIONS.

NOTES:

1. TEMPORARY EROSION CONTROL STRUCTURE TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY ENGINEER OR AREAS ON-SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL STRUCTURE MAY BE REMOVED AFTER UPSLOPE AREA HAS BEEN STABILIZED BY SOD, OR COMPACTED AS DETERMINED BY CONTRACTOR.
2. CONSTRUCT STORMWATER SYSTEMS BEFORE ANY BUILDING OR ROAD CONSTRUCTION IS STARTED.
   a.) PROTECT SYSTEM FROM SILTING AND DEBRIS BY METHODS PROVIDED IN DETAILS.
   b.) PROTECT SWALE BOTTOM FROM SEALING BY EXCAVATING ALL SILT DEPOSITS DURING CONSTRUCTION. THIS SHALL BE DONE BEFORE SOD & SEEDING & MULCHING IS FINISHED

EROSION CONTROL STRUCTURE

NOT TO SCALE

THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF-SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.

PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT, ADJACENT PROPERTIES AND WATER RESOURCES.

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPEDIENCY IN LIEU OF PERMANENT MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

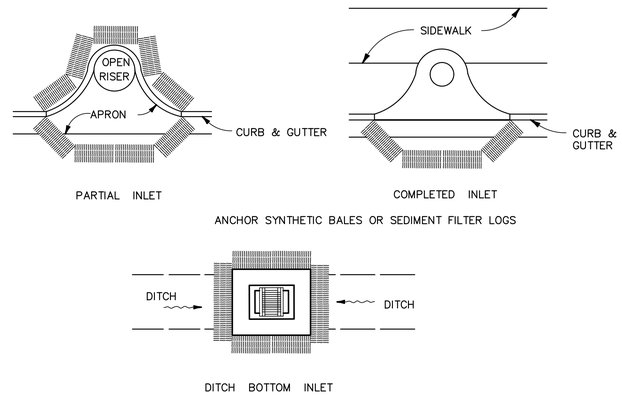
MOUNT DORA, FLORIDA Incorporated 1925

EROSION CONTROL DETAIL

GU0020-1

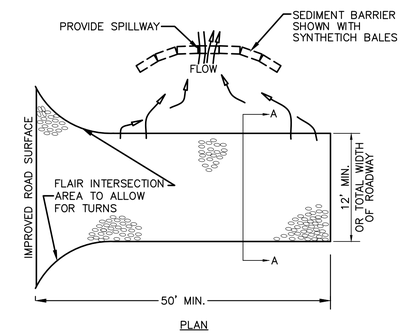
ISSUED: 2017

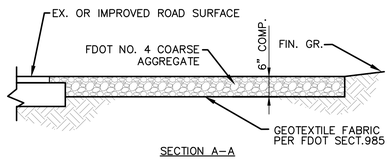
REVISED: --



1 PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.





2 ROCK CONSTRUCTION ENTRANCE DETAIL

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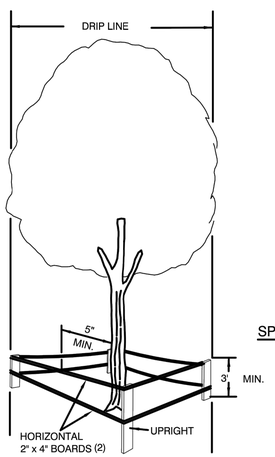

WHY A BARRIER?

1. TO PROTECT ALL ABOVE GROUND PORTIONS
2. TO PROTECT SOIL NEAR TREE FROM COMPACTION
3. PROVIDES PHYSICAL AND MENTAL AWARENESS OF TREES' PRESENCE TO EQUIPMENT OPERATORS

WHY IT WORKS

1. NO HEAVY EQUIPMENT ALLOWED INSIDE BARRIER, ONLY HAND LABOR
2. NO CONSTRUCTION MATERIALS OR TEMPORARY SOIL DEPOSITS ALLOWED INSIDE THIS AREA

BY OBSERVING THESE TWO SIMPLE PRINCIPLES, A TREES' CHANCE FOR SURVIVAL IS GREATLY ENHANCED

SPECIFICATIONS FOR WOOD BARRIER

1. MINIMUM RADIUS TO BE PROTECTED IS ENTIRE DRIP LINE
2. MINIMUM 3' IN HEIGHT
3. UPRIGHTS- THE EQUIVALENT OF 2"x4" LUMBER ON 6' MINIMUM CENTERS
4. HORIZONTAL- THE EQUIVALENT OF TWO COURSES OF 2" x 4" LUMBER PAINTED SAFETY YELLOW
5. BARRIERS TO BE ERECTED AROUND TREES TO REMAIN BEFORE CONSTRUCTION OR NEARBY TREES ARE REMOVED
6. BARRIERS TO REMAIN IN PLACE UNTIL ALL PAVING, CONSTRUCTION AND HEAVY EQUIPMENT IS OUT OF AREA

NOTE:

BARRIER MUST BE ERECTED PRIOR TO CONSTRUCTION

MOUNT DORA, FLORIDA Incorporated 1925

TREE PROTECTION MEASURES

GU0023-1

ISSUED: 2017

REVISED: -- 2019

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP

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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

TRIANGLE ELEMENTARY PARK

MOUNT DORA, LAKE COUNTY, FL

CLIENT

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OWNER

LAKE COUNTY SCHOOLS

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CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

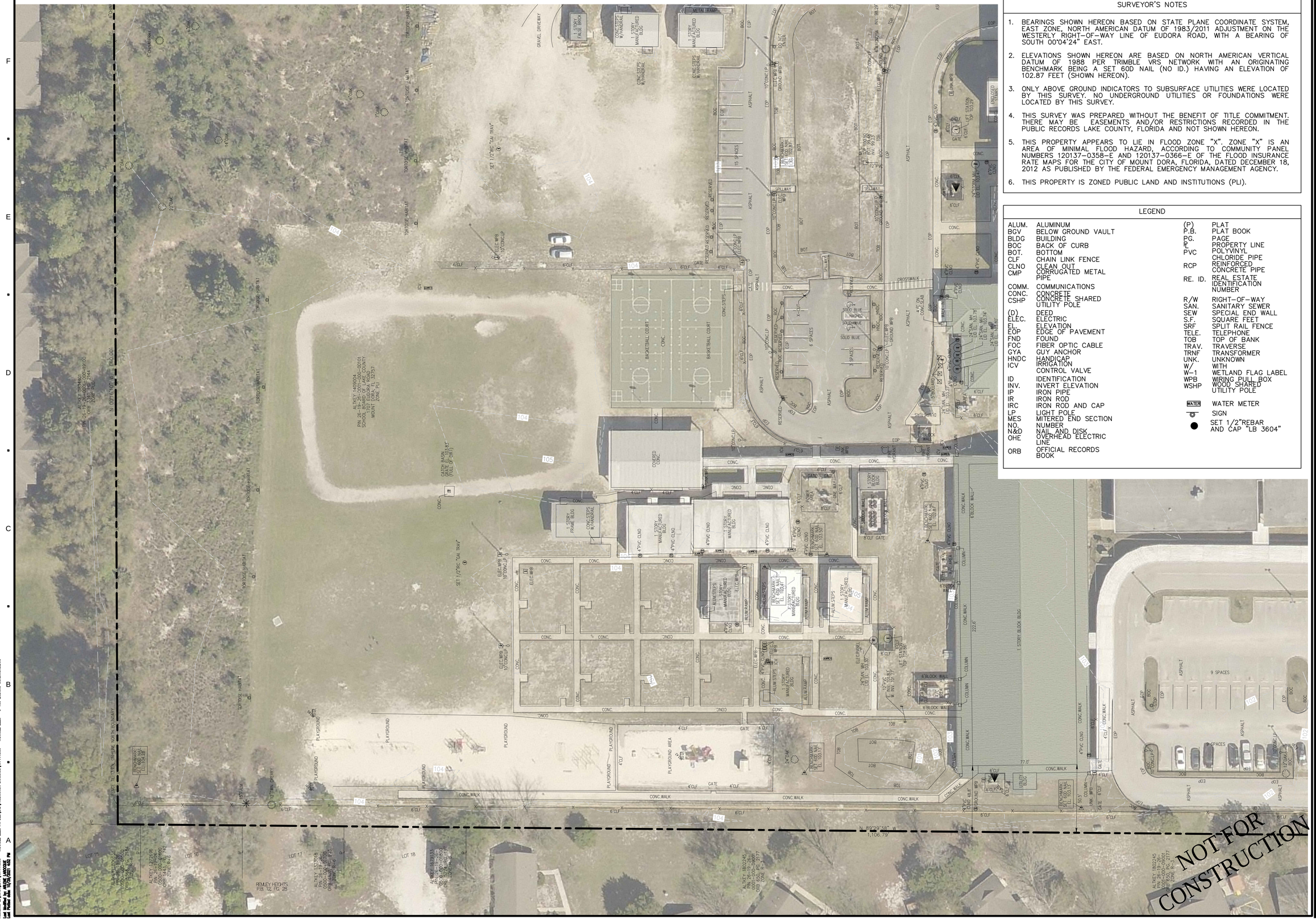
SHEET TITLE

SWPPP DETAILS

SHEET NUMBER

C-005

Filename: Z:\APPS\2017\A171115.09 - TRIANGLE ELEM PK KIES\CAD\PRODUCTION DRAWINGS\A171115.09 - TRIANGLE ELEM - C-001 GENERAL NOTES.DWG
Last Modified By: ADL, 10/29/2021 4:45 PM
Last Plotted: Sep 10, 2021 2:45 PM



SURVEYOR'S NOTES

1. BEARINGS SHOWN HEREON BASED ON STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT ON THE WESTERLY RIGHT-OF-WAY LINE OF EUDORA ROAD, WITH A BEARING OF SOUTH 00°04'24" EAST.
2. ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 PER TRIMBLE VRS NETWORK WITH AN ORIGINATING BENCHMARK BEING A SET 60D NAIL (NO ID.) HAVING AN ELEVATION OF 102.87 FEET (SHOWN HEREON).
3. ONLY ABOVE GROUND INDICATORS TO SUBSURFACE UTILITIES WERE LOCATED BY THIS SURVEY. NO UNDERGROUND UTILITIES OR FOUNDATIONS WERE LOCATED BY THIS SURVEY.
4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF TITLE COMMITMENT. THERE MAY BE EASEMENTS AND/OR RESTRICTIONS RECORDED IN THE PUBLIC RECORDS LAKE COUNTY, FLORIDA AND NOT SHOWN HEREON.
5. THIS PROPERTY APPEARS TO LIE IN FLOOD ZONE "X". ZONE "X" IS AN AREA OF MINIMAL FLOOD HAZARD, ACCORDING TO COMMUNITY PANEL NUMBERS 120137-0358-E AND 120137-0366-E OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF MOUNT DORA, FLORIDA, DATED DECEMBER 18, 2012 AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
6. THIS PROPERTY IS ZONED PUBLIC LAND AND INSTITUTIONS (PLI).

LEGEND

ALUM.	ALUMINUM	(P)	PLAT
BGV	BELOW GROUND VAULT	P.B.	PLAT BOOK
BLDG	BUILDING	PG.	PAGE
BOC	BACK OF CURB	PL	PROPERTY LINE
BOT.	BOTTOM	PVC	POLYVINYL CHLORIDE PIPE
CLF	CHAIN LINK FENCE	RCP	REINFORCED CONCRETE PIPE
CLNO	CLEAN OUT	RE. ID.	REAL ESTATE IDENTIFICATION NUMBER
CMP	CORRUGATED METAL PIPE	R/W	RIGHT-OF-WAY
COMM.	COMMUNICATIONS	SAN.	SANITARY SEWER
CONC.	CONCRETE	SEW	SPECIAL END WALL
CSHP	CONCRETE SHARED UTILITY POLE	S.F.	SQUARE FEET
(D)	DEED	SRF	SPLIT RAIL FENCE
ELEC.	ELECTRIC	TELE.	TELEPHONE
EL.	ELEVATION	TOB	TOP OF BANK
EOP	EDGE OF PAVEMENT	TRAV.	TRAVERSE
FND	FOUND	TRNF	TRANSFORMER
FOC	FIBER OPTIC CABLE	UNK.	UNKNOWN
GYA	GUY ANCHOR	W/	WITH
HNDC	HANDICAP	W-1	WETLAND FLAG LABEL
ICV	IRRIGATION CONTROL VALVE	WPB	WIRING PULL BOX
ID	IDENTIFICATION	WSHP	WOOD SHARED UTILITY POLE
INV.	INVERT ELEVATION	WATER	WATER METER
IP	IRON PIPE		SIGN
IR	IRON ROD		SET 1/2"REBAR AND CAP "LB 3604"
IRC	IRON ROD AND CAP		
LP	LIGHT POLE		
MES	MITERED END SECTION		
NO.	NUMBER		
N&D	NAIL AND DISK		
OHE	OVERHEAD ELECTRIC LINE		
ORB	OFFICIAL RECORDS BOOK		

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CONSULTANTS

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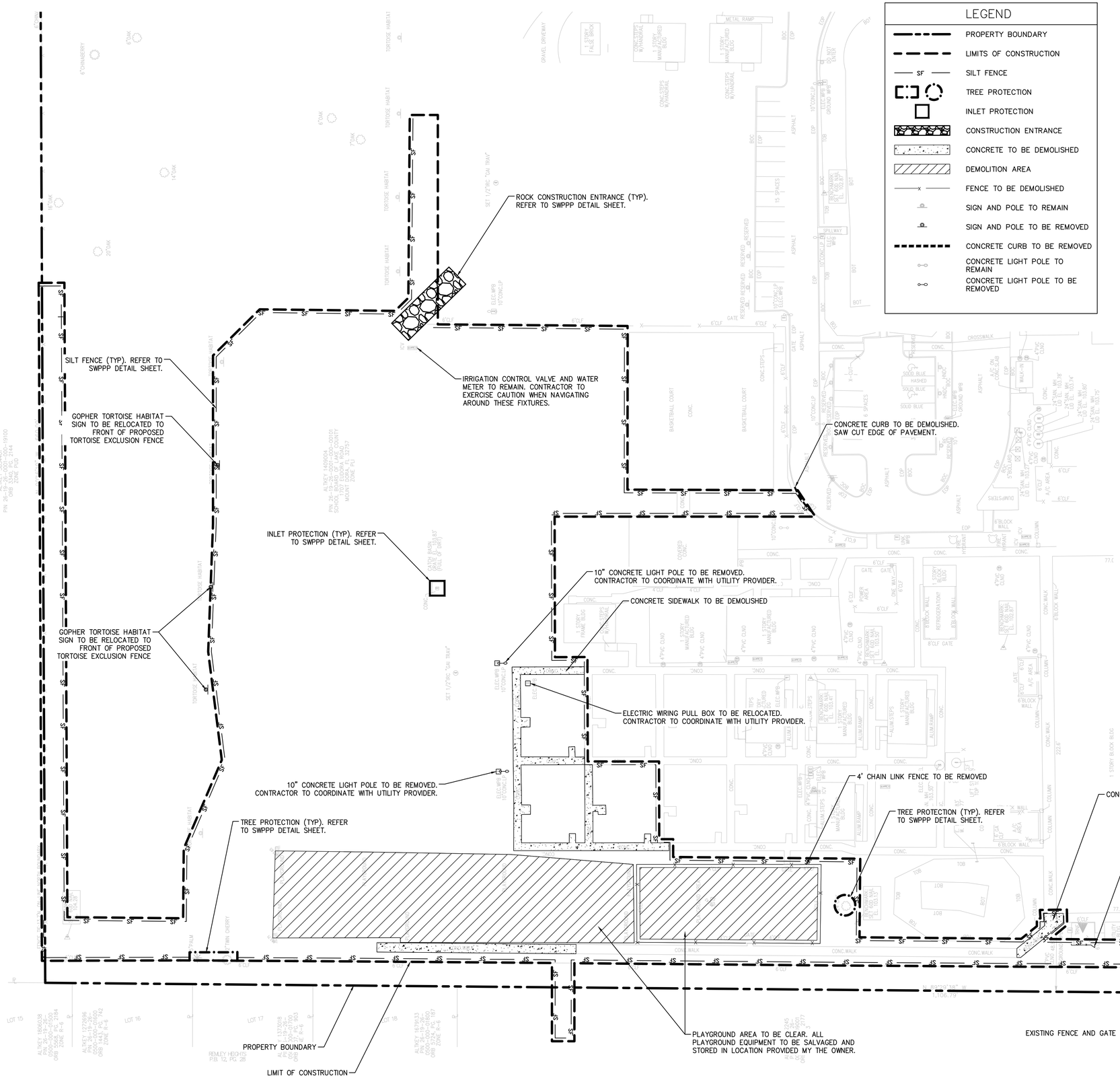
SCALE:	SCALE: 1"=30'-0"
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE — NORTH

SHEET TITLE
EXISTING CONDITIONS

SHEET NUMBER
C-101



LEGEND

- PROPERTY BOUNDARY
- LIMITS OF CONSTRUCTION
- SF — SILT FENCE
- TREE PROTECTION
- INLET PROTECTION
- CONSTRUCTION ENTRANCE
- CONCRETE TO BE DEMOLISHED
- DEMOLITION AREA
- FENCE TO BE DEMOLISHED
- SIGN AND POLE TO REMAIN
- SIGN AND POLE TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- CONCRETE LIGHT POLE TO REMAIN
- CONCRETE LIGHT POLE TO BE REMOVED

GENERAL NOTES:

1. SEE TOPOGRAPHIC SURVEY FOR EXISTING FEATURES LEGEND AND ABBREVIATIONS.
2. ALL PRIVATE AND PUBLIC PROPERTY DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN EXISTING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. THE DAMAGE TO THE EXISTING FACILITIES INCLUDES, BUT IS NOT LIMITED TO, UTILITIES, SPRINKLER SYSTEMS, WALKS, DRIVEWAYS, SIDEWALKS, LANDSCAPING, TREES, GRASS, ETC.
3. ALL PUBLIC/PRIVATE UTILITIES MUST NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR SHALL HAVE AND EXECUTE A "UTILITY MAINTENANCE PLAN" THAT HAS BEEN APPROVED BY THE RESPECTIVE UTILITY COMPANY WHEN CONDITIONS APPLY.
4. ANY DEVIATION FROM THE CITY OF MOUNT DORA ENGINEERING STANDARDS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION.
5. ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1955 PER TRIMBLE VRS NETWORK WITH AN ORIGINATING BENCHMARK BEING SET 60D NAIL (NO ID) HAVING ELEVATION OF 102.87 FEET (SHOWN HERON).
6. THIS PROJECT IS LOCATED WITHIN LAKE COUNTY SCHOOL PROPERTY LIMITS. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH SCHOOL MANAGEMENT.

EROSION CONTROL NOTES:

1. NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
2. ALL EXCESS FILL MATERIAL WILL BE HAULED OFFSITE.
3. ALL DESIGNATED ENTRANCES AND EXITS FOR THE CONSTRUCTION SITE SHALL BE STABILIZED USING FILTER FABRIC AND GRAVEL OR OTHER PRE-APPROVED METHODS TO PREVENT OFF-SITE TRACKING OF SEDIMENTS.
4. SITE DUST CONTROL IS MANDATORY. CONTRACTOR SHALL EMPLOY BMP(S) SUCH AS: WIND SCREEN ON PERIMETER CONSTRUCTION FENCING, WATER MISTING OF DRY SOILS, ETC.

ENVIRONMENTAL NOTE:

1. THIS SITE CONTAINS SEVERAL GOPHER TORTOISES AND GOPHER TORTOISE BURROWS. TAMPERING WITH ANY GOPHER TORTOISE AND/OR GOPHER TORTOISE BURROWS WITHOUT A PERMIT IS STRICTLY PROHIBITED.
2. ACCORDING TO FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), A PERMIT MUST BE OBTAINED FROM FWC IN ORDER TO CONDUCT ANY CONSTRUCTION ACTIVITIES OR OTHER DISTURBANCES WITHIN 25 FEET FROM THE OPENING OF ANY POTENTIALLY OCCUPIED GOPHER TORTOISE BURROW. IF FWC DETERMINES THAT NO SUCH PERMIT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION PRIOR TO THE START OF CONSTRUCTION.

KEY DEFINITIONS:

1. ABANDONED: BURIED UTILITY LINES ARE TO REMAIN. CONTRACTOR TO PROVIDE FOR RESPECTIVE UTILITY COMPANY ABANDONMENT REQUIREMENTS, AND AS SUPPLEMENTED BY THESE PLANS. ALL PORTIONS OF ABANDONED UTILITIES WITHIN EXCAVATED AREAS ARE TO BE REMOVED UNLESS OTHERWISE NOTED IN PLANS. SEE ALSO ABANDONMENT OF NOTES, THIS SHEET.
2. ADJUST: CONSTRUCTION ITEM TO BE ALTERED, RELOCATED OR REPLACED AS NEEDED TO AVOID CONFLICT WITH PROPOSED CONSTRUCTION.
3. PROVIDE: FURNISH AND INSTALL AND/OR CONSTRUCT COMPLETE, FULLY TESTED, AND READY FOR ITS INTENDED USE.
4. REFURBISHED: RENOVATE EXISTING CONSTRUCTION ITEM TO MEET CURRENT SPECIFICATIONS, LIKE NEW CONDITIONS. PROTECT DURING CONSTRUCTION.
5. REMAIN: EXISTING ITEMS OF CONSTRUCTION NOT TO BE REMOVED. PROVIDE TEMPORARY PROTECTION DURING THE CONSTRUCTION PERIOD. PROVIDE ADJUSTMENTS AS REQUIRED BY PLANS.
6. REMOVED: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE. DISPOSAL IS BY THE CONTRACTOR.
7. REPLACED: CONSTRUCTION ITEM TO BE REMOVED AND A NEW SIMILAR PRODUCT TO BE INSTALLED AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
8. SALVAGED: DETACH ITEM FROM EXISTING CONSTRUCTION, PROTECT FROM DAMAGE, CLEAN AND DELIVER THEM TO OWNER READY FOR REUSE. COORDINATE DELIVERY LOCATION WITH OWNER AND PROVIDE DELIVERY.

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PROJECT
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CONSULTANTS

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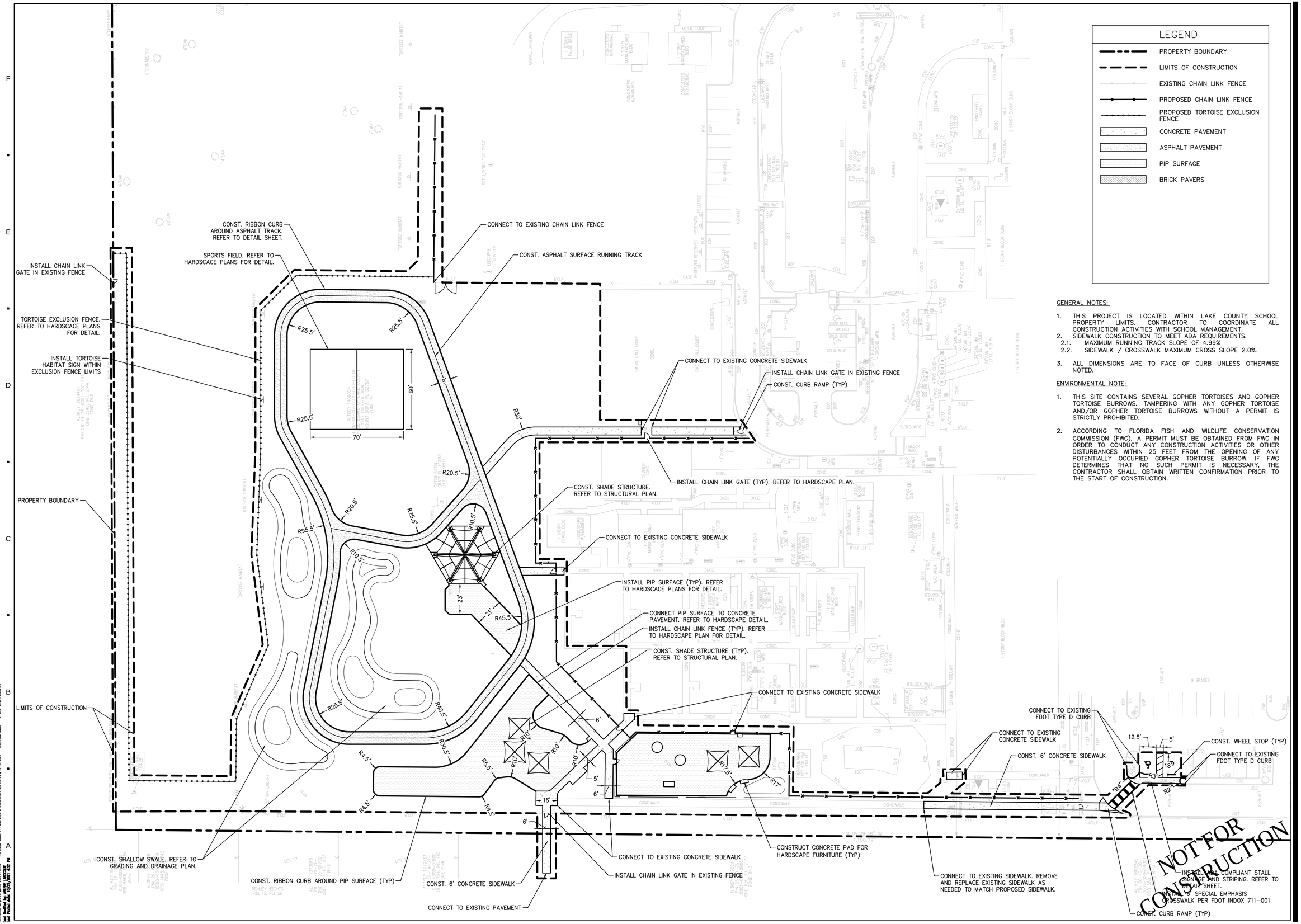
SCALE:	SCALE: 1"=30'-0"
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE — NORTH

SHEET TITLE
DEMOLITION & EROSION CONTROL PLAN

SHEET NUMBER
C-102



LEGEND

- PROPERTY BOUNDARY
- LIMITS OF CONSTRUCTION
- EXISTING CHAIN LINK FENCE
- PROPOSED CHAIN LINK FENCE
- PROPOSED TORTOISE EXCLUSION FENCE
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- PIP SURFACE
- BRICK PAVERS

GENERAL NOTES:

1. THIS PROJECT IS LOCATED WITHIN LAKE COUNTY SCHOOL PROPERTY LIMITS. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH SCHOOL MANAGEMENT.
2. SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.
   2.1. MAXIMUM RUNNING TRACK SLOPE OF 4.99%
   2.2. SIDEWALK / CROSSWALK MAXIMUM CROSS SLOPE 2.0%.
3. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

ENVIRONMENTAL NOTE:

1. THIS SITE CONTAINS SEVERAL GOPHER TORTOISES AND GOPHER TORTOISE BURROWS. TAMPERING WITH ANY GOPHER TORTOISE AND/OR GOPHER TORTOISE BURROWS WITHOUT A PERMIT IS STRICTLY PROHIBITED.
2. ACCORDING TO FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), A PERMIT MUST BE OBTAINED FROM FWC IN ORDER TO CONDUCT ANY CONSTRUCTION ACTIVITIES OR OTHER DISTURBANCES WITHIN 25 FEET FROM THE OPENING OF ANY POTENTIALLY OCCUPIED GOPHER TORTOISE BURROW. IF FWC DETERMINES THAT NO SUCH PERMIT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION PRIOR TO THE START OF CONSTRUCTION.

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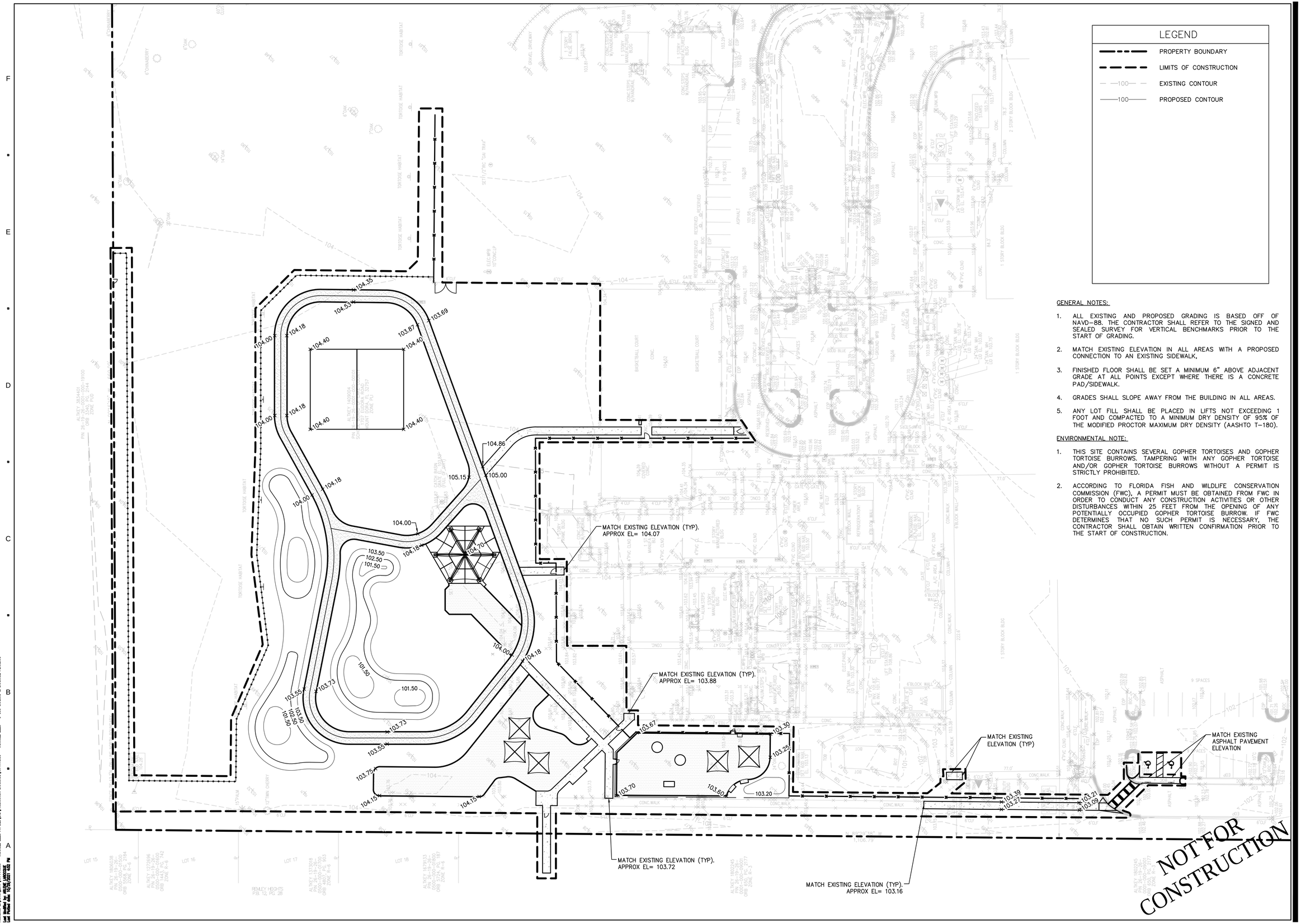
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE NORTH

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-200



LEGEND

- PROPERTY BOUNDARY
- LIMITS OF CONSTRUCTION
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR

GENERAL NOTES:

1. ALL EXISTING AND PROPOSED GRADING IS BASED OFF OF NAVD–88. THE CONTRACTOR SHALL REFER TO THE SIGNED AND SEALED SURVEY FOR VERTICAL BENCHMARKS PRIOR TO THE START OF GRADING.
2. MATCH EXISTING ELEVATION IN ALL AREAS WITH A PROPOSED CONNECTION TO AN EXISTING SIDEWALK,
3. FINISHED FLOOR SHALL BE SET A MINIMUM 6" ABOVE ADJACENT GRADE AT ALL POINTS EXCEPT WHERE THERE IS A CONCRETE PAD/SIDEWALK.
4. GRADES SHALL SLOPE AWAY FROM THE BUILDING IN ALL AREAS.
5. ANY LOT FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 1 FOOT AND COMPACTED TO A MINIMUM DRY DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T–180).

ENVIRONMENTAL NOTE:

1. THIS SITE CONTAINS SEVERAL GOPHER TORTOISES AND GOPHER TORTOISE BURROWS. TAMPERING WITH ANY GOPHER TORTOISE AND/OR GOPHER TORTOISE BURROWS WITHOUT A PERMIT IS STRICTLY PROHIBITED.
2. ACCORDING TO FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), A PERMIT MUST BE OBTAINED FROM FWC IN ORDER TO CONDUCT ANY CONSTRUCTION ACTIVITIES OR OTHER DISTURBANCES WITHIN 25 FEET FROM THE OPENING OF ANY POTENTIALLY OCCUPIED GOPHER TORTOISE BURROW. IF FWC DETERMINES THAT NO SUCH PERMIT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION PRIOR TO THE START OF CONSTRUCTION.

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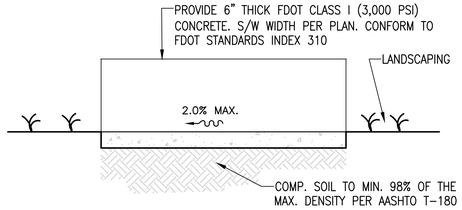
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW
GRAPHIC SCALE NORTH

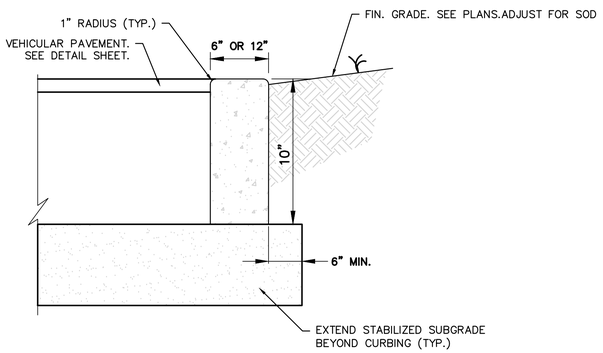
SHEET TITLE
GRADING AND DRAINAGE PLAN

SHEET NUMBER
C-300



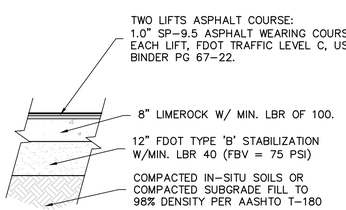
NOTES:
1. PROVIDE SEALED EXP. JOINTS. AS REQUIRED PER PLANS, OTHERWISE CONFORM TO FDOT INDEX 310
2. CONSTRUCT SIDEWALK CONFORMING TO FDOT SPEC. SECTION 522
3. PROVIDE CONCRETE BROOM FINISH IN STANDARD COLOR, UNLESS OTHERWISE INDICATED IN THE LANDSCAPE ARCHITECT DOCUMENTS.
4. SIDEWALK REQUIREMENTS: THE SIDEWALK CROSS SLOPE MUST NOT EXCEED 2%. IF THE LONGITUDINAL SLOPE OF THE SIDEWALK EXCEEDS 1:20 IT IS CONSIDERED A RAMP AND A LEVEL LANDING MUST BE PROVIDED FOR EVERY 30-INCH CHANGE IN ELEVATION AND IN SUCH CASES HANDRAILS MAY BE REQUIRED.

1 TYPICAL SIDEWALK DETAIL
N.T.S.



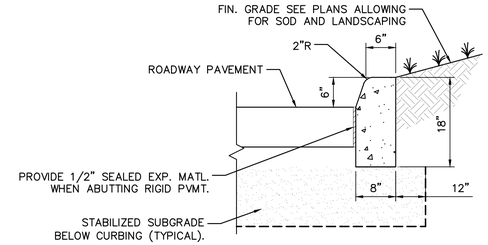
NOTES:
1. USE F.D.O.T. CLASS I CONCRETE (3,000 PSI).
2. SAW CUT CONTROL JOINTS IN NEW CURB WITHIN 24 HOURS OF POUR.

2 RIBBON CURB DETAIL
N.T.S.



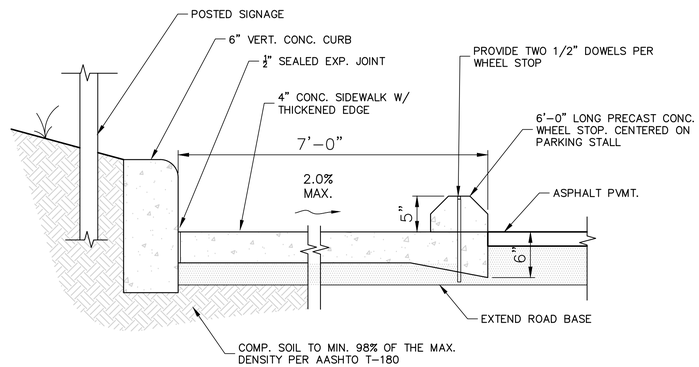
PAVING NOTES.
1. ASPHALT CONFORMING TO FDOT INDEX 334 "SUPERPAVE"
2. MILLING AND OVERLAY REQUIREMENTS: LOCAL ROAD, ALLEY WAYS AND PARKING AREAS = 1.0-IN. USE RESPECTIVE FRICTION COURSE FOR OVERLAY W/ FDOT APPROVED TACKING AND BINDER MATERIALS. CONFORM TO FDOT STANDARD SPECIFICATION SECTION 327.

3 TYPICAL ASPHALT PAVEMENT DETAIL
N.T.S.



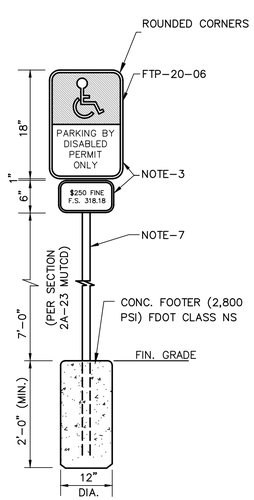
NOTES:
1. USE F.D.O.T. CLASS I CONCRETE (3,000 PSI).
2. SAW CUT CONTROL JOINTS IN NEW CURB AT 10' C/C WITHIN 24-HOURS OF POUR. REFER TO F.D.O.T. INDEX 300.
3. CONFORM WITH F.D.O.T. INDEX 300.

4 FDOT TYPE "D" CURB DETAIL
N.T.S.



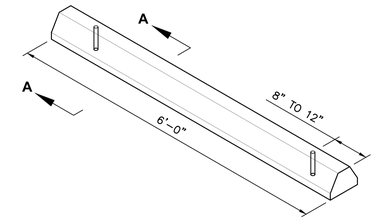
SIDEWALK NOTES:
1. USE FDOT CLASS I CONCRETE (3,000 PSI). CONFORM TO FDOT STDR. SPECIFICATION 346 AND 520
2. PROVIDE 1/2" SEALED EXPANSION JOINTS. CONFORM TO FDOT INDEX 310
3. PROVIDE SEALED EXPANSION JOINT BETWEEN CURB AND ADJOINING CONCRETE PAVEMENT OR SIDEWALK
4. PROVIDE COMPACTED BACKFILL TO MIN. 98% PROCTOR DENSITY PER AASHTO T-180
5. PROVIDE PRECAST REINF-CONCRETE WHEEL STOPS
6. PROVIDE SIDEWALK JOINTING AND FINISH PER LANDSCAPE ARCHITECT'S PLANS.

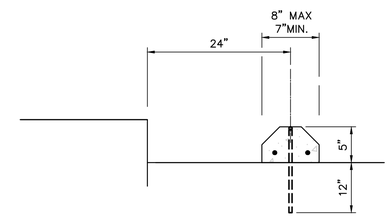
5 ADA PARKING SIDEWALK DETAIL
N.T.S.



ADA SIGNAGE NOTES:
1. ONE (1) SIGN ASSEMBLY IS REQUIRED FOR EACH PARKING SPACE. PLACED CENTERED W/ PARKING SPACE AND 2'-0" CLEAR FROM BACK-OF-CURB WHEN APPLICABLE.
2. SIGN SHALL HAVE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND. USE FDOT FTP-20-06, OR FTP-21-06, OR APPROVED EQUAL.
3. SIGNS SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) CONFORMING TO FDOT SPEC. SECTION 700. PANELS PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STDR. INDEX NO. 700-102. USE FDOT FTP-20-06 PLUS 6"X12" PLACARD BELOW.
4. SIGNS SHALL BE SHEET ALUMINUM BACKING (.080) THICKNESS.
5. HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 2A-23 OF THE MUTCD.
6. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. AND THE MUTCD.
7. POLES SHALL BE 3"ø ALUM. UNLESS OTHERWISE INDICATED IN THE LANDSCAPE ARCHITECH'S PLANS AND SPECS. PROVIDE RUSTPROOF HARDWARE. ALL SIGNS SHALL CONFORM TO FDOT INDEX 11864.

6 ADA SIGN DETAIL
N.T.S.





SECTION A-A
(TYPICAL)

NOTES:
1. USE HIGH PSI (4,000 PSI MIN) CONCRETE.
2. PROVIDE #4 MIN (14" LONG) PINS. TWO PER WHEEL STOP. PROVIDE JOINT FILLER AT TOP OF PIN, TOOLED FLUSH.

7 CONCRETE WHEEL STOP DETAIL
N.T.S.

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CONSULTANTS

REGISTRATION

ISSUED FOR:

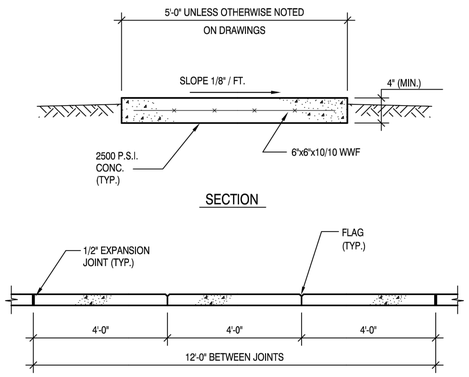
60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
SITE DETAILS

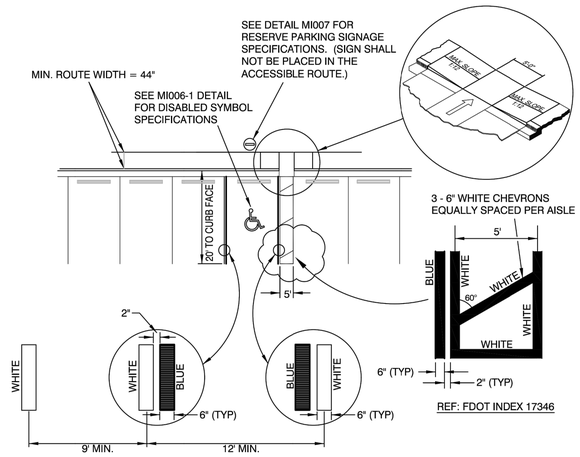
SHEET NUMBER
C-401



NOT TO SCALE

CONCRETE WALKWAY DETAIL

GU0019-1
ISSUED: 2017
REVISED: --



NOTES:

1. EACH ACCESSIBLE PARKING SPACE SHALL BE CONSPICUOUSLY STRIPED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND THE CAPTION "PARKING BY DISABLED PERMIT ONLY". SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL DISABLED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.
2. PARKING SPACE WIDTH AND ACCESS AISLES SHALL BE MEASURED FROM CENTER OF WHITE STRIPE TO CENTER OF WHITE STRIPE.
3. THIS DETAIL IS PROVIDED TO SUPPORT LDC SECTION 3.41.3.2
4. WHERE CURBING EXISTS PARALLEL TO STALL, BLUE LINE SHALL BE REQUIRED ADJACENT TO CURB (WHITE LINE WILL NOT BE REQUIRED).
5. CURB RAMPS CONSTRUCTED ON EXISTING SITES OR FACILITIES MAY HAVE SLOPES AND RISES AS ALLOWED IN ADA 4.1.6 (3) (a) IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS.

ACCESSIBLE PARKING - SINGLE SPACE STRIPING

GU0024-1
ISSUED: 2017
REVISED: --

STORM DRAINAGE CONSTRUCTION NOTES

1. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE UNLESS APPROVED BY THE CITY ENGINEER.
2. STORM DRAINAGE PIPES SHALL BE A MINIMUM OF FIFTEEN (15) INCH DIAMETER (15" FOR SHORT LATERAL RUNS ONLY - UP TO 75 FEET; ALL OTHERS, 18" MINIMUM.) OR EQUIVALENT AND BE DESIGNED IN ACCORDANCE WITH THE FDOT DRAINAGE MANUAL.
3. ALL PIPE TERMINUS SHALL BE MITERED END SECTIONS UNLESS A HEADWALL IS APPROVED FOR RESTRICTED LOCATIONS.
4. UNLESS OTHERWISE NOTED, ALL STRUCTURES SHALL MEET FDOT STANDARDS.
5. STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE EITHER POURED IN PLACE OR PRE-CAST REINFORCED CONCRETE. STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE, CHANGE IN PIPE DIRECTION, OR PIPE MATERIAL.
6. STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF PER FDOT DRAINAGE MANUAL.
7. MAXIMUM DISTANCES BETWEEN INLETS AND/OR MANHOLES:

PIPE SIZE (INCHES)	LENGTH RUN (FEET)	
15	75 *	See Note 2., Above.
18	150	
24	250	
30	300	
36	300	
42	400	
54 or greater	500	

8. ALL SWALES, DITCHES MAXIMUM SIDE AND BACK SLOPES MUST NOT BE GREATER THAN 3 TO 1.
9. NORMAL ROADSIDE SWALES SHALL BE CONSTRUCTED TO A MAXIMUM DEPTH OF 18" BELOW THE OUTSIDE EDGE OF PAVEMENT OR CONCRETE CURB.
10. CONCRETE EROSION CONTROL MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
11. WHEN A POND IS INCORPORATED WITHIN A SUBDIVISION, THE POND SHALL BE ON A SEPARATE TRACT, OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION. WHERE SUCH PONDS EXIST AND ARE BOUNDED IN WHOLE OR IN PART BY STREETS, A STRIP OF LAND NOT LESS THAN FIFTEEN (15) FEET WIDE ABUTTING SUCH STREET RIGHT-OF-WAY SHALL BORDER THE POND.

STORMWATER GENERAL NOTES

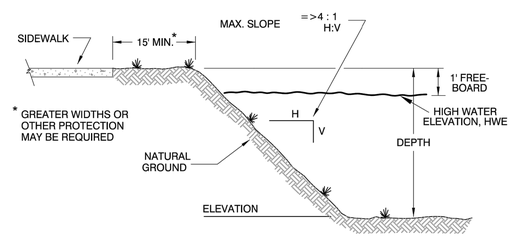
ST0001-1A
ISSUED: 2017
REVISED: --

STORM DRAINAGE CONSTRUCTION NOTES

12. POND INFLOW AND OUTLET STRUCTURES SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE AND SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
13. SOIL EROSION CONTROL MEASURES, IN CONFORMANCE WITH THE FLORIDA STORMWATER, EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL AND SATISFACTORY WITH THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.
14. THE DEVELOPER MUST SUBMIT A DRAINAGE REPORT BY A QUALIFIED HYDROLOGIST ON THE IMPACT THE POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS, BOTH DURING CONSTRUCTION AND AFTER COMPLETION. THE CITY ENGINEER MAY REQUIRE GROUNDWATER MONITORING DURING THE POND EXCAVATION.
15. ADEQUATE MAINTENANCE EASEMENTS OR RIGHT-OF-WAY AS APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED AROUND THE ENTIRE PERIMETER OF ALL PONDS AND ASSOCIATED OUTFALLS DISCHARGING INTO AND OUT OF PONDS. APPLICABLE CROSS SECTIONS SHALL BE INCLUDED ON ALL FINAL DEVELOPMENT PLANS.
16. DEVELOPMENT PLANS SHALL CONTAIN POP-OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, AND 100 YEAR HIGH WATER LEVELS.
17. RETENTION/DETENTION SITES MUST BE CONSTRUCTED ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DE-WATERING IS NOT REQUIRED.
18. THE ENGINEER OF RECORD IS REQUIRED TO OBTAIN, AND PROVIDE EVIDENCE OF, ANY AND ALL DE-WATERING PERMITS, SJRWMD PERMITS, EXEMPTION LETTERS, NPDES PERMITS, AND/OR ANY OTHER PERMITS THAT MAY BE REQUIRED, PRIOR TO SITE PLAN APPROVAL.
19. CULVERTS CROSSING RIGHT-OF-WAYS SHALL EXTEND FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE UNDER THE ROADWAY.

STORMWATER GENERAL NOTES

ST0001-1B
ISSUED: 2017
REVISED: --



TYPICAL SECTION

NOTES:

THE SIDE SLOPES OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED AND MAINTAINED WITH AS FLAT A SLOPE AS POSSIBLE. WITH APPROVAL FROM THE CITY ENGINEER, SLOPES UP TO TWO (2) HORIZONTAL TO ONE (1) VERTICAL, ARE ACCEPTABLE, PROVIDED SOIL CONDITIONS ARE SUITABLE TO SUSTAIN ADEQUATE PLANT GROWTH AND TO CONTROL EROSION, AS CERTIFIED BY THE ENGINEER OF RECORD. RETENTION/DETENTION PONDS SHALL BE ENCLOSED WITH A GATED, SIX-FOOT-HIGH, FENCE (REFER TO CITY LDC 3.44.2 FOR MATERIAL), WITH THE FOLLOWING EXCEPTIONS:

(1) WHERE THE MAXIMUM DESIGN WATER DEPTH IS LESS THAN TWO (2) FEET; AND/OR

(2) WHERE THE DETENTION FACILITY IS PART OF A LANDSCAPED AREA OR CONSERVATION SCHEME, AND, THE SIDE SLOPES TO WATER DEPTH OF THREE (3) FEET ARE CONSTRUCTED AND MAINTAINED AT A MAXIMUM SLOPE OF AT LEAST SIX HORIZONTAL TO ONE VERTICAL (6:1).

STORMWATER POND OR SWALE ADJACENT TO PEDESTRIAN WALKWAY

ST0004-1
ISSUED: 2017
REVISED: --

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CONSULTANTS

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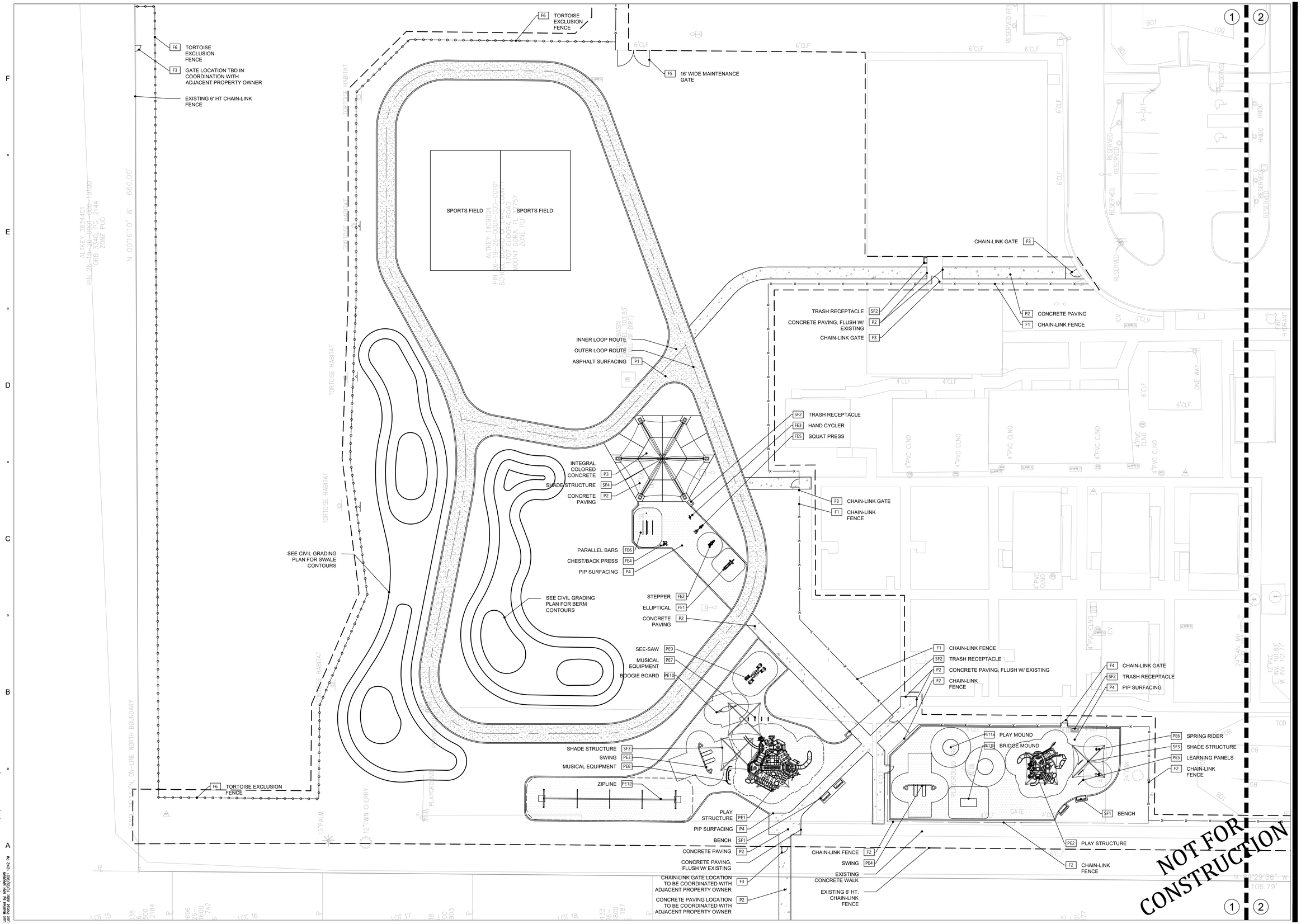
DRAWN BY:	ADL
CHECKED BY:	AJS

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
CITY OF MT DORA DETAILS

SHEET NUMBER
C-402



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SCALE:	SCALE: 1"=20'-0"
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE 0 10 20 Feet

NORTH

SHEET TITLE

HARDSCAPE PLAN

SHEET NUMBER

HS.01

SHEET OF

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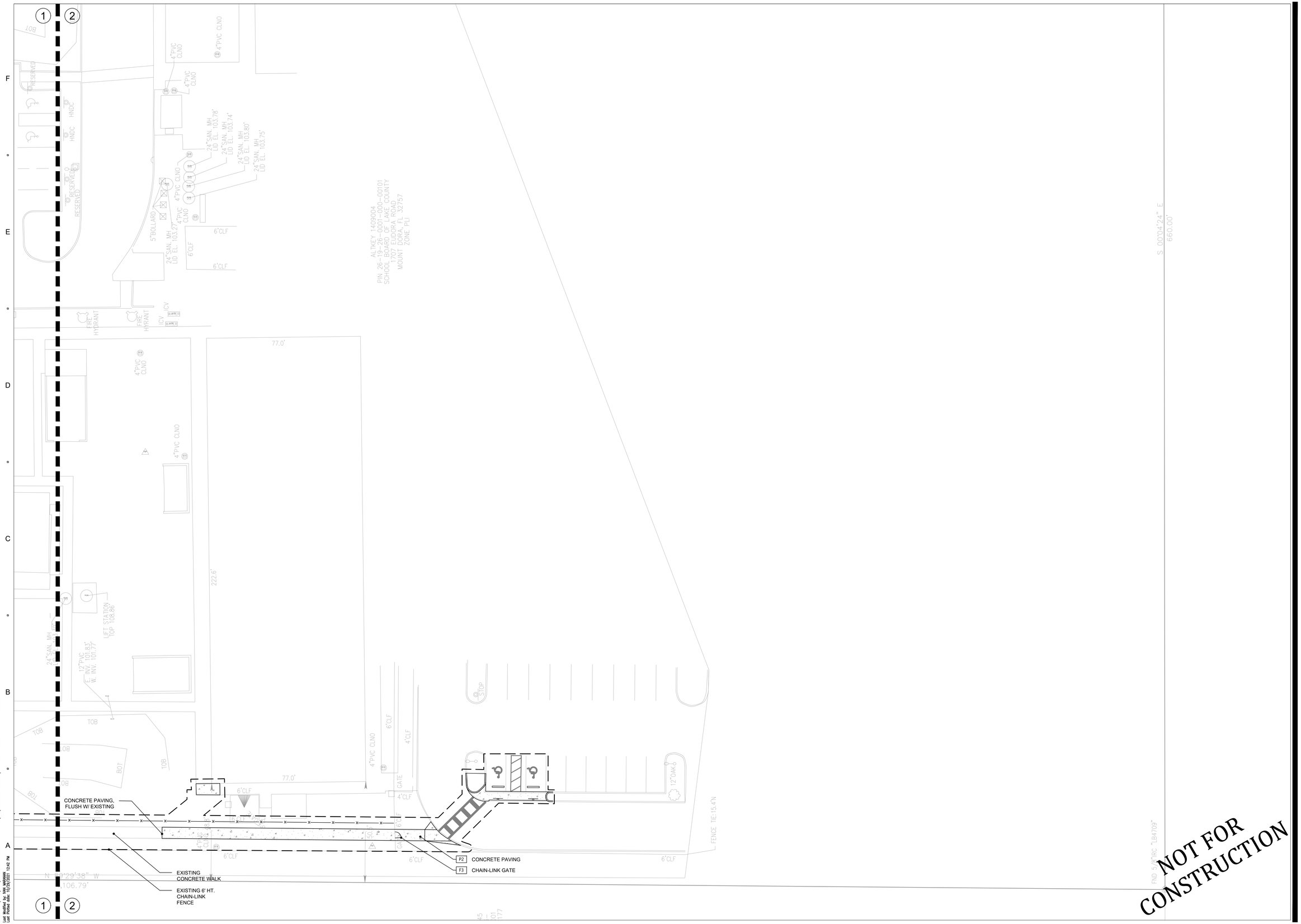

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DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE — NORTH

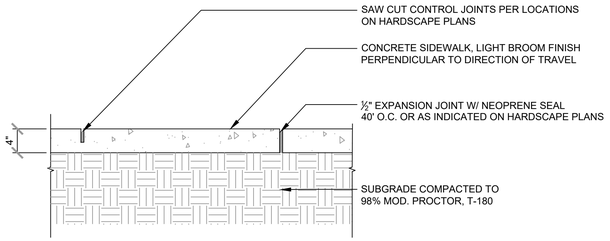
SHEET TITLE

HARDSCAPE PLAN

SHEET NUMBER

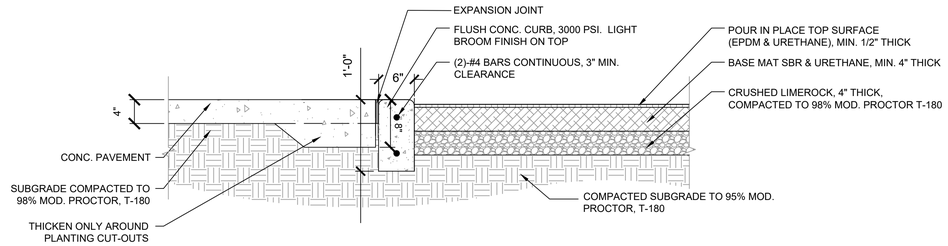
HS.02

SHEET **OF**



1 HS.11 CONCRETE WALK

SCALE: 1"=1'-0"

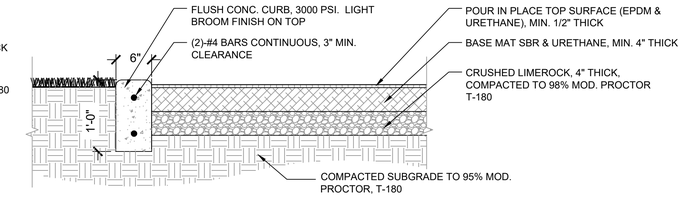


NOTES:

1. FOR PLAYGROUND SURFACING LOCATION, SEE SHEET L1.0.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS TO MEET PLAYGROUND EQUIPMENT CRITICAL FALL HEIGHTS.

2 HS.11 PIP SURFACING ADJACENT TO CONCRETE

SCALE: 1"=1'-0"

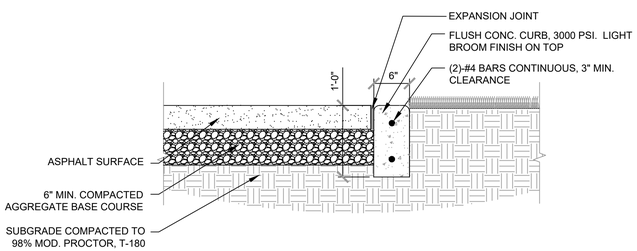


NOTES:

1. FOR PLAYGROUND SURFACING LOCATION, SEE SHEET L1.0.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS TO MEET PLAYGROUND EQUIPMENT CRITICAL FALL HEIGHTS.

3 HS.11 PIP SURFACING ADJACENT TO PLANTING

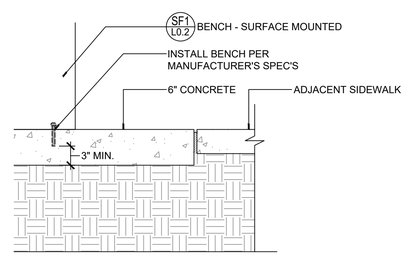
SCALE: 1"=1'-0"



4 HS.11 ASPHALT WITH 6" CONCRETE BANDS

SCALE: 1"=1'-0"

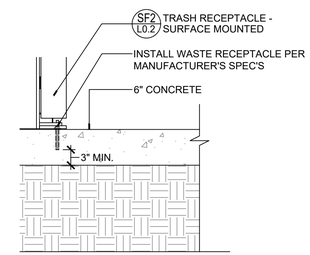
NOTE:
CONTRACTOR TO CONFIRM FASTENER DIAMETER AND LENGTH WITH MANUFACTURER PRIOR TO INSTALLATION.



5 HS.11 BENCH

SCALE: 1"=1'-0"

NOTE:
CONTRACTOR TO CONFIRM FASTENER DIAMETER AND LENGTH WITH MANUFACTURER PRIOR TO INSTALLATION.



6 HS.11 TRASH RECEPTACLE

SCALE: 1"=1'-0"

NOT FOR CONSTRUCTION

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DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE

HARDSCAPE DETAILS

SHEET NUMBER

HS.11

SHEET **OF**

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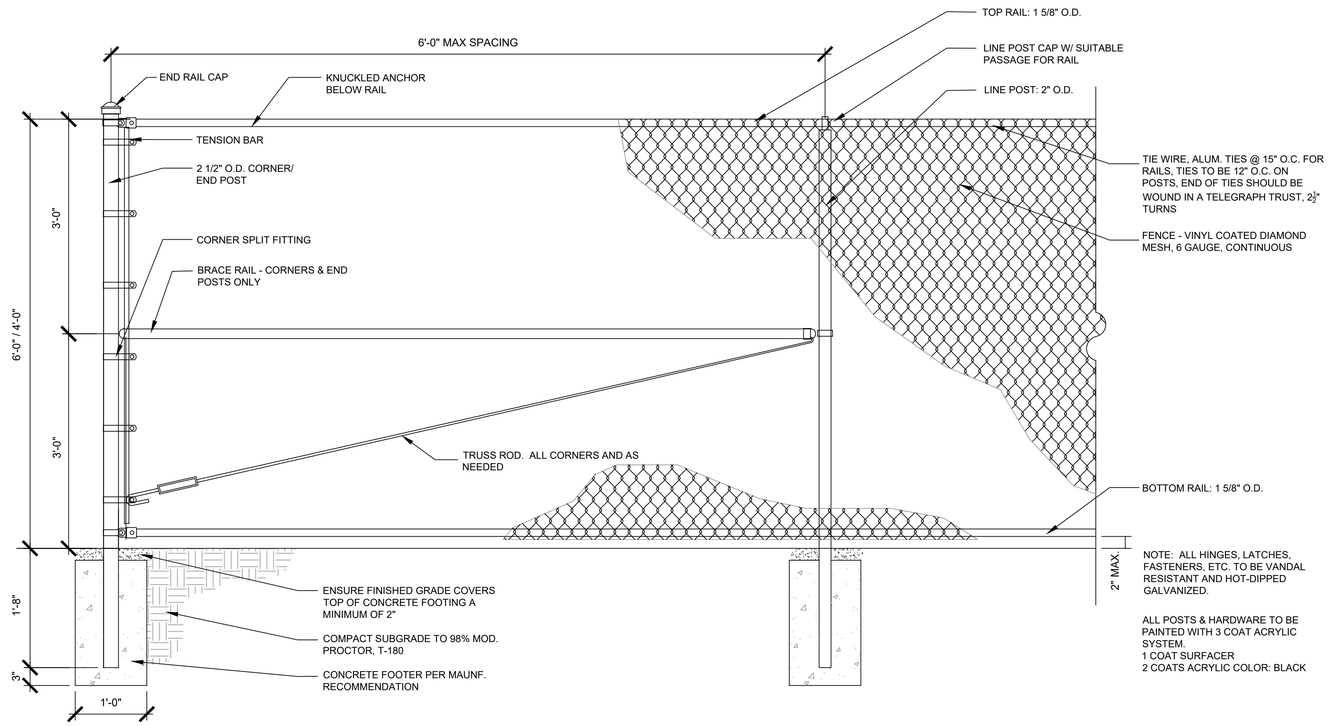
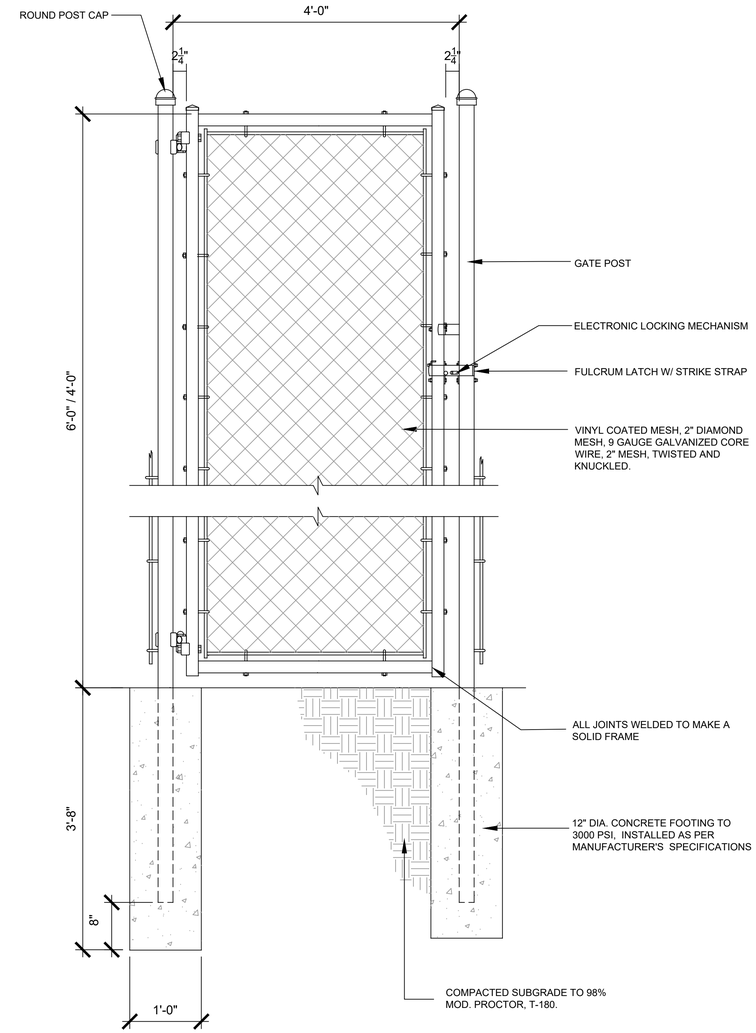


NOTE: ALL HINGES, LATCHES, FASTENERS, ETC. TO BE VANDAL RESISTANT AND HOT-DIPPED GALVANIZED.

ALL POSTS & HARDWARE TO BE PAINTED WITH 3 COAT ACRYLIC SYSTEM.
1 COAT SURFACER
2 COATS ACRYLIC COLOR: BLACK

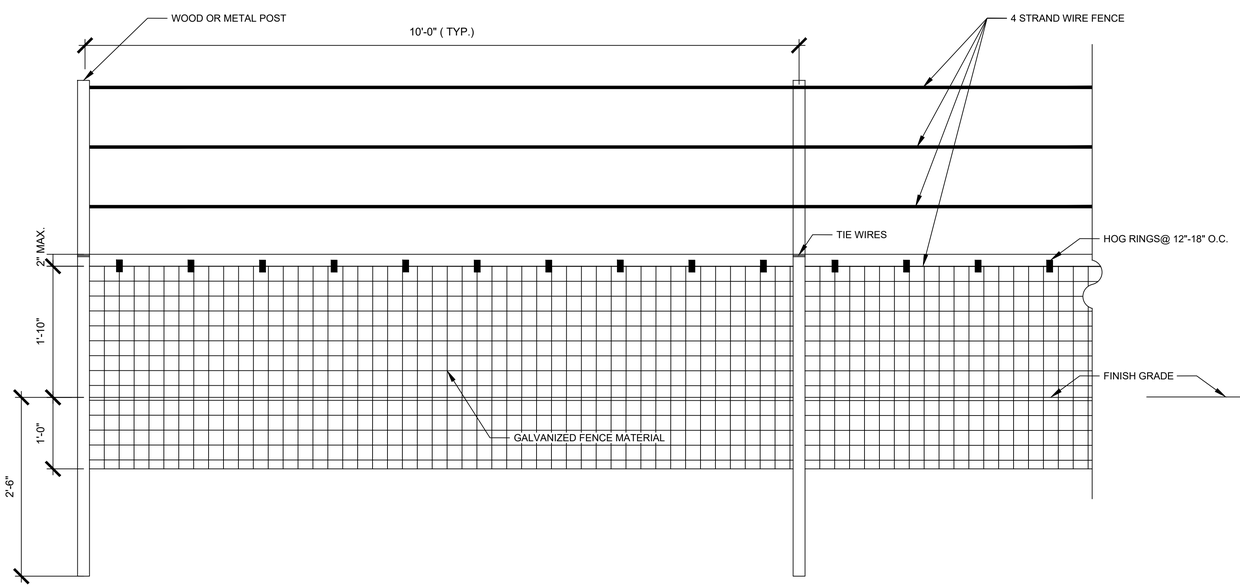
1 / HS.12 CHAIN-LINK FENCE

SCALE: 1"=1'-0"



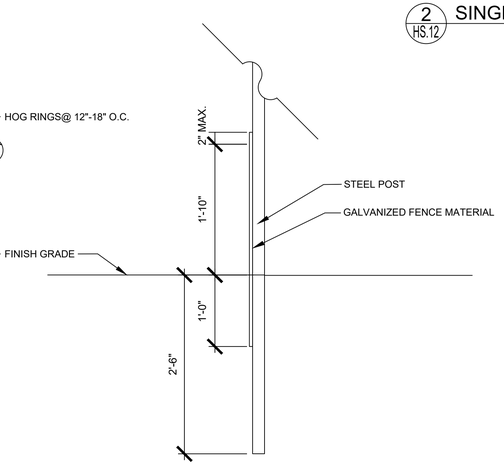
2 / HS.12 SINGLE GATE (TYP.)

SCALE: 1"=1'-0"



3 / HS.12 TORTOISE FENCE

SCALE: 1"=1'-0"



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A GAI Consultants, Inc. Service Group
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
TRIANGLE ELEMENTARY PARK
MOUNT DORA, LAKE COUNTY, FL

CLIENT
MOUNT DORA LEISURE SERVICES
900 N. DONNELLY STREET
MOUNT DORA, FL 32757
352.735.7183 tel

OWNER
LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD
TAVARES, FL 32778
352.253.6500 tel

CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	AS NOTED
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
HARDSCAPE DETAILS

SHEET NUMBER
HS.12

SHEET OF

Filename: Z:\WPWA\2017\A171115.09 - TRIANGLE ELEM PK DES\CAD\PRODUCTION DRAWINGS\A171115.09 - TRIANGLE ELEM - HS DETAILS.DWG
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Last Plotted By: 10/29/2021 12:43 PM

FINISH SCHEDULE

Tag	Item	Color	Model / Finish	Source	Notes	Details
Paving						
P1	Asphalt Surfacing	TBD			Outer Loop= 1/6 mile Inner Loop= 1/10 mile	4/HS11
P2	Concrete Paving	TBD				1,2/HS11
P3	Integral Colored Concrete Paving	TBD				1,2/HS11
P4	Pour-In-Race Surfacing	TBD		Vititurf/ Rep Services Mary Langley ph: 407.831.9658 x305		2,3/HS11
Fencing						
F1	Chain-Link Fence (6' ht.)	Permafused				1/HS12
F2	Chain-Link Fence (4' ht.)	Permafused				1/HS12
F3	Chain-Link Gate (6' ht.)	Permafused				2/HS12
F4	Chain-Link Gate (4' ht.)	Permafused				2/HS12
F5	Chain-Link Maintenance Gate (6' ht.)	Permafused				4/HS12
F6	Tortoise Exclusion Fence	Galvanized		animex animexfencing.com		3/HS12
Site Furnishings						
SF1	Bench	TBD	Kaleidoscope: Model #186588 w/ back, w/o arms	Landscape Structures ph: 888.438.6574	Surface mount per manufacturer's specifications	5/HS11
SF2	Trash Receptacle	Aluminum Texture	Apex 36 Gallon Powdercoat	Form+Surfaces forms-surfaces.com	Surface mount per manufacturer's specifications	6/HS11
SF3	Shade Structure	TBD	SkyWays Single Post Hypar Shade: Model #267726 16'x16'	Landscape Structures ph: 888.438.6574	Surface mount per manufacturer's specifications	
SF4	Shade Structure	TBD	SkyWays Hexagon, Single Layer: Model #216034 35' dia	Landscape Structures ph: 888.438.6574	Surface mount per manufacturer's specifications	
Playground Equipment						
PE1	Play Structure (5y-12y)	TBD	Hedra: Model #270239 w/ Integrated Shade Structure: See SF3	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	1/HS24
PE2	Play Structure (2y-5y)	TBD	Hedra Scout: Model #265029 w/ Integrated Shade Structure: See SF3	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	2/HS22
PE3	Swings (5y-12y)	TBD	Hedra Swing: Model #278557 Molded Bucket Seat w/out Harness	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	2/HS24
PE4	Swings (2y-5y)	TBD	Molded Bucket Seat w/ Harness	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	3/HS22
PE5	Learning Panels (6m-12y)	TBD	Ball Maze: Model #184868 Ring A Bell: Model #184886 Gear Panel: Model #184876	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	1/HS22
PE6	Spring Riders (2y-12y)	TBD	Bobble rider, single. Model #164074	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	4/HS22; 3/HS24
PE7	Musical equipment (2y-+13y)	TBD	Rhapsody® Outdoor Musical Instruments: Model #214442, Grandioso Chimes Recommended Use Zone: 29' x 12'	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	1/HS23; 4/HS24
PE8	Musical equipment (2y-+13y)	TBD	Rhapsody® Outdoor Musical Instruments: Model #251574, Vibra Chimes	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	2/HS23; 5/HS24
PE9	Multi-Seat See-Saw (2y-12y)	TBD	We-saw™: Model #186490	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	3/HS23; 1/HS25
PE10	Boogie Board (5y-12y)	TBD	Boogie board: Model #194704	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	2/HS25
PE11a	Play mound (2y-5y)		Standard PlayMound 8'x8'x18"	Foreverlawn/playgroundgrass.com ph: 866.992.7876	Install per manufacturer's specifications	4/HS23
PE11b	Play mound (2y-5y)		Standard Bridge PlayMound 8'x4'x36" w/ 24" Tunnel	Foreverlawn/playgroundgrass.com ph: 866.992.7876	Install per manufacturer's specifications	4/HS23
PE12	Ziplines	TBD	Zipkrooz ziplines: Model #194563	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	3/HS25
Fitness Equipment						
FE1	Elliptical	TBD	HealthBeat Elliptical: Model #192457	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	1/HS26
FE2	Stepper	TBD	HealthBeat Cardio Stepper: Model #192455	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	2/HS26
FE3	Hand Cycler	TBD	HealthBeat Hand Cycler: Model #205938	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	3/HS26
FE4	Chest/Back Press	TBD	HealthBeat Chest/Back Press: Model #192456	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	4/HS26
FE5	Squat Press	TBD	HealthBeat Squat Press: Model #192451	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	5/HS26
FE6	Parallel Bars	TBD	HealthBeat Parallel Bars: Model #192453	Landscape Structures ph: 888.438.6574	Install per manufacturer's specifications	6/HS26

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DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
FINISH SCHEDULE

SHEET NUMBER
HS.21

SHEET OF

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Last Updated: 10/29/2021 11:43 PM
Last Plotted: 10/29/2021

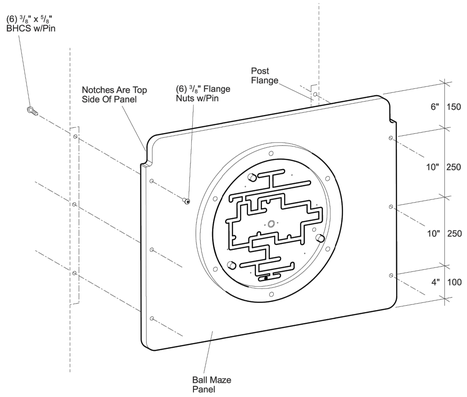
landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

11768600

PS = Playshaper
LW = Learning Wall - Mounted 10 3/4"
Above The Playing Surface.



NOTE:
The Ball Maze Panel is pre-assembled at the factory.

PlayShaper®

111300/184868 Ball Maze Panel

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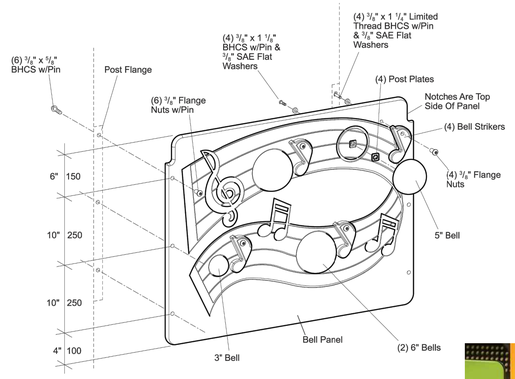
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

159462a

PS = Playshaper
LW = Learning Wall - Mounted 10 3/4"
Above The Playing Surface.



Back Of Panel

PlayShaper®

159460/184888 Ring-a-Bell Panel™

landscape structures®

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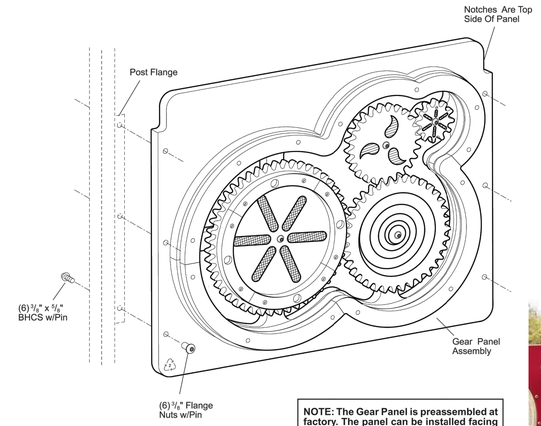
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

12419100

PS = Playshaper
LW = Learning Wall - Mounted 10"
Above The Playing Surface.



NOTE: The Gear Panel is preassembled at factory. The panel can be installed facing out as shown (low deck heights) or inward facing deck.

PlayShaper®

117147/184876 Gear Panel, (10")

1 6 MONTHS - LEARNING PANELS
Scale: NTS

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SAFETY NOTE
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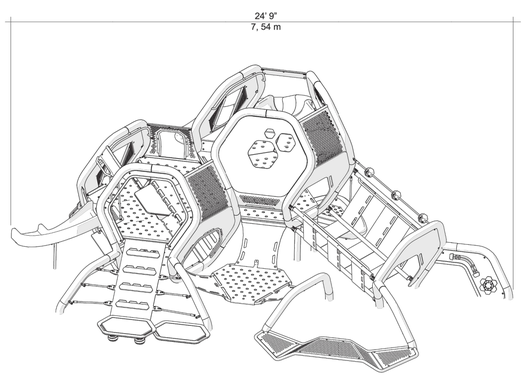

Hedra

Hedra™ Scout 265929

2 2-5 YEARS - PLAYGROUND: HEDRA SCOUT
Scale: NTS

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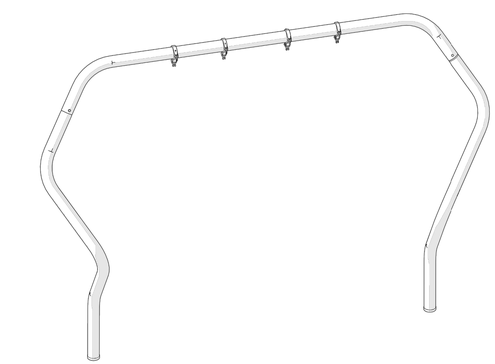
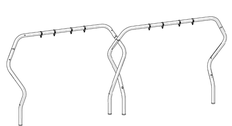
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)





Double Configuration

Hedra

Hedra Swing Frame 8' Beam™ 278557

3 2-5 YEARS - SWINGS WITH HARNESS
Scale: NTS

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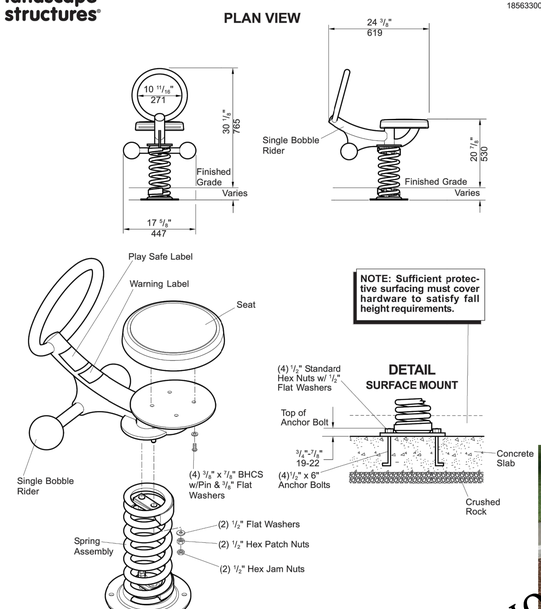
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

18563300

PLAN VIEW



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

Kids In Motion

164074 Bobble Rider™, Single

4 2-5 YEARS - SPRING RIDERS
Scale: NTS

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60% CD	10.29. 2021

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SCALE:	N/A
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
PLAYGROUND EQUIPMENT

SHEET NUMBER
HS.22

SHEET OF

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Last Saved: kaiser
Last Plotted: Oct 29,2021 12:43 PM

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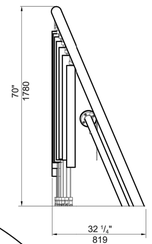
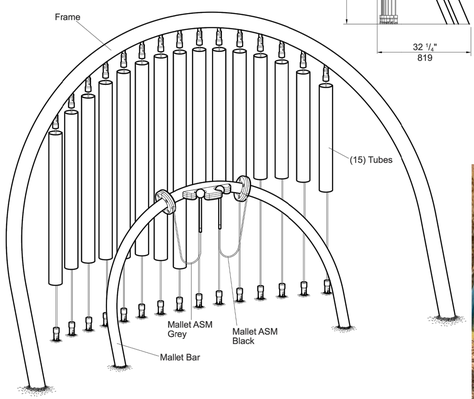
216986

ELEVATION
(SIDE VIEW)





Sensory Play **214442 Grandioso™ Chimes**

1 2-5 YEARS - MUSICAL EQUIPMENT
Scale: NTS

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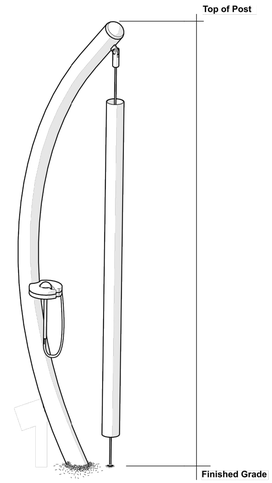
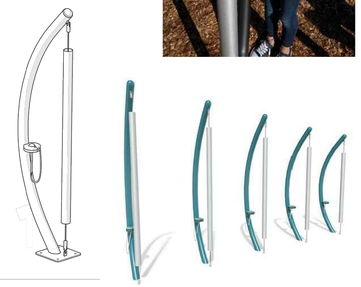
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)





Rhapsody® **Vibra™ Chimes**

2 2-5 YEARS - MUSICAL EQUIPMENT
Scale: NTS

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SAFETY NOTE
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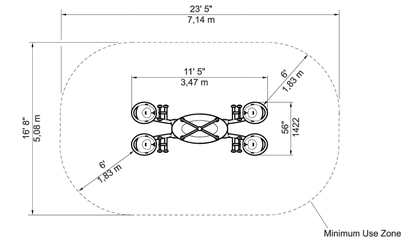
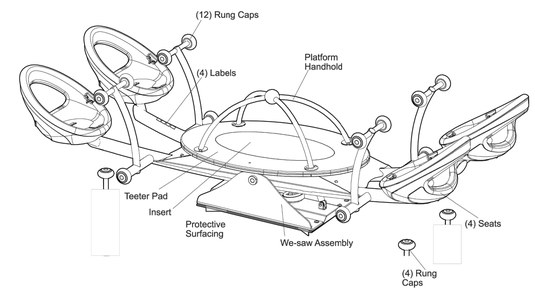
PLAN VIEW



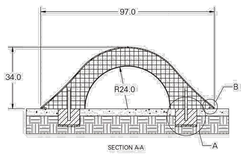


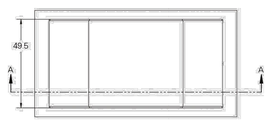
Kids In Motion **186490 We-saw™**

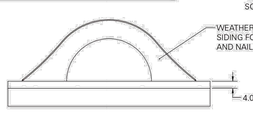
3 2-5 YEARS - MULTI-SEAT SEE-SAW
Scale: NTS

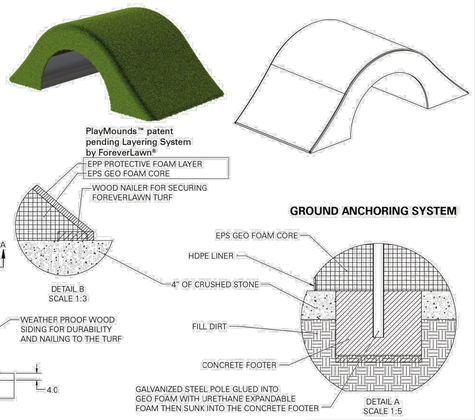
PlayMounds
Standard Bridge

PLAYGROUND GRASS™









Units: Feet and inches

Material	Polystyrene		
Covering	Turf (sold separately)		
Weight	112 lb (152 lb turfed)		
Drawing No.	M1368	10/20	

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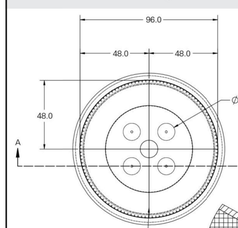
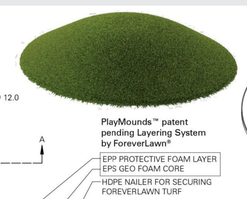
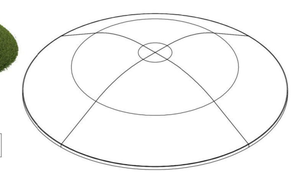
PlayMounds
Standard 8' Medium PlayMound

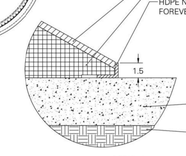
PLAYGROUND GRASS™

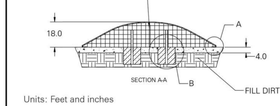


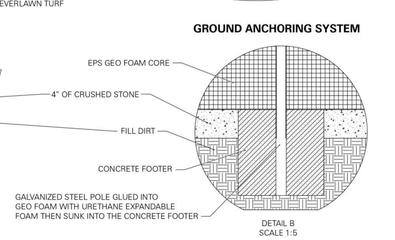




PLAYMOUND SECTIONS MUST BE GLUED TOGETHER USING GREAT STUFF PRO™







Units: Feet and inches

Material	Polystyrene		
Covering	Turf (sold separately)		
Weight	54 lb (100 lb turfed)		
Drawing No.	M1537	10/21	

ForeverLawn® | 866.992.7876 • foreverlawn.com | 8007 Beeson St., Louisville, OH 44641 | CADdetails MICROSITE microsite.caddetails.com/1148

4 2-5 YEARS - PLAY MOUND
Scale: NTS

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP
A GAI Consultants, Inc. Service Group
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
TRIANGLE ELEMENTARY PARK
MOUNT DORA, LAKE COUNTY, FL

CLIENT
MOUNT DORA LEISURE SERVICES
900 N. DONNELLY STREET
MOUNT DORA, FL 32757
352.735.7183 tel

OWNER
LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD
TAVARES, FL 32778
352.253.6500 tel

CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
PLAYGROUND EQUIPMENT

SHEET NUMBER
HS.23

SHEET **OF**

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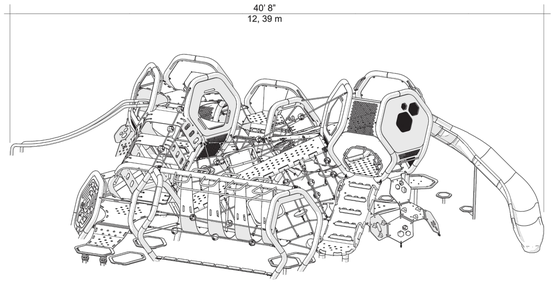
Plot Scale: 1:1
Last Plotted By: YW/IM
Last Plotted Date: 10/29/2021 12:44 PM

landscape structures

ISO 14001 CERTIFIED

ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



Hedra

Hedra™ 265928

1 5-12 YEARS - PLAYGROUND: HEDRA

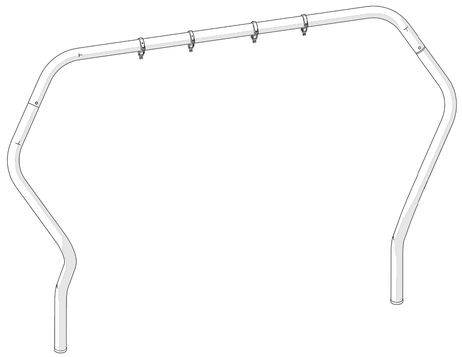
Scale: NTS

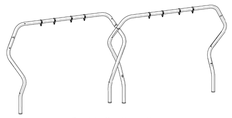
landscape structures

ISO 14001 CERTIFIED

ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)





Double Configuration

Hedra

Hedra Swing Frame 8' Beam™ 278557

2 5-12 YEARS - SWINGS WITHOUT HARNESS

Scale: NTS

landscape structures

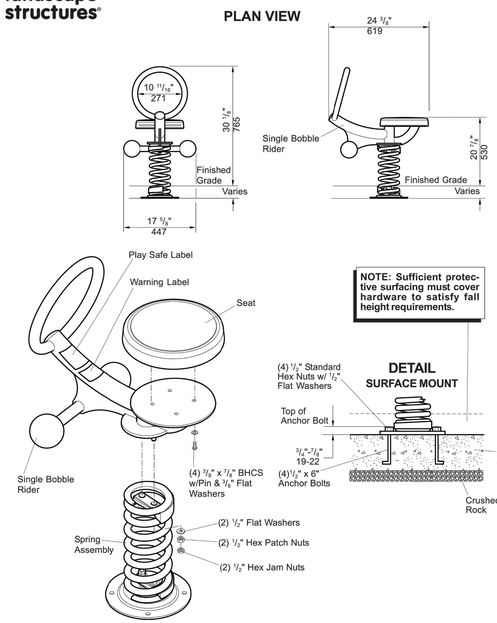
ISO 14001 CERTIFIED

ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

18563300

PLAN VIEW



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

DETAIL
SURFACE MOUNT

Kids In Motion

164074 Bobble Rider™, Single

3 5-12 YEARS - SPRING RIDERS

Scale: NTS

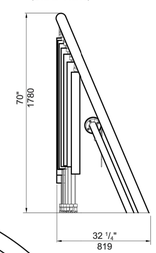
landscape structures

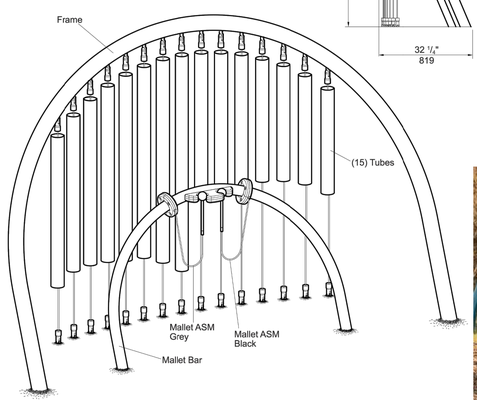
ISO 14001 CERTIFIED

ISO 9001 Certified

216986

ELEVATION
(SIDE VIEW)





Sensory Play

214442 Grandioso™ Chimes

4 5-12 YEARS - MUSICAL EQUIPMENT

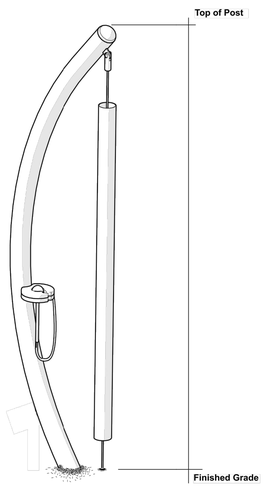
Scale: NTS

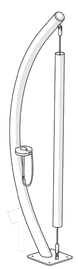
landscape structures

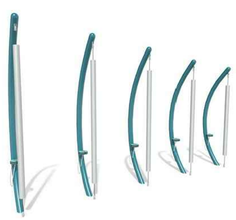
ISO 14001 CERTIFIED

ISO 9001

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)







Rhapsody®

Vibra™ Chimes

5 5-12 YEARS - MUSICAL EQUIPMENT

Scale: NTS

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP

A GAI Consultants, Inc. Service Group

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

TRIANGLE ELEMENTARY PARK

MOUNT DORA, LAKE COUNTY, FL

CLIENT

MOUNT DORA LEISURE SERVICES

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CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29. 2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE

PLAYGROUND EQUIPMENT

SHEET NUMBER

HS.24

SHEET **OF**

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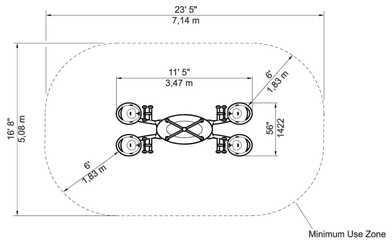
Last Plotted By: Kevin Alvarez
Last Plotted Date: 10/29/2021 12:44 PM

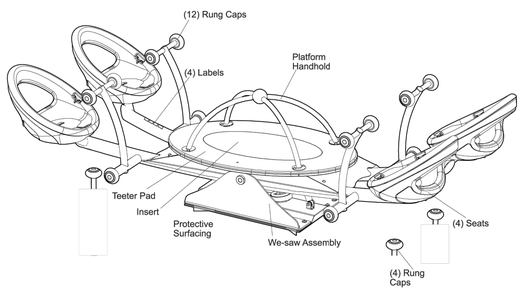
landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

PLAN VIEW





Kids In Motion **186490 We-saw™**

1 5-12 YEARS - MULTI-SEAT SEE-SAW

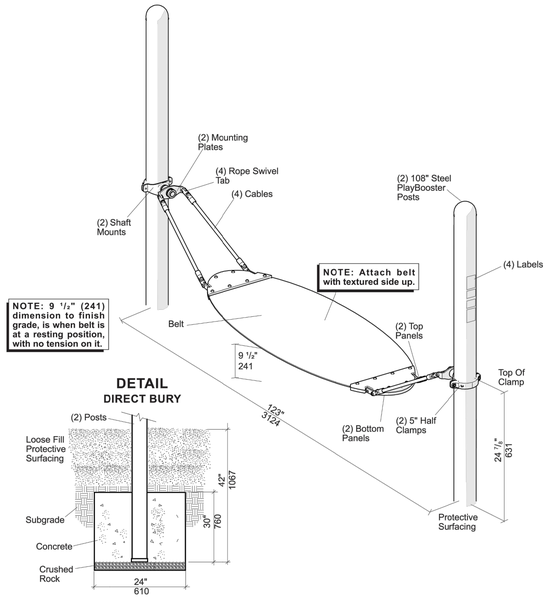
Scale: NTS

landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

23206100



More Fun **194704 Boogie Board™**

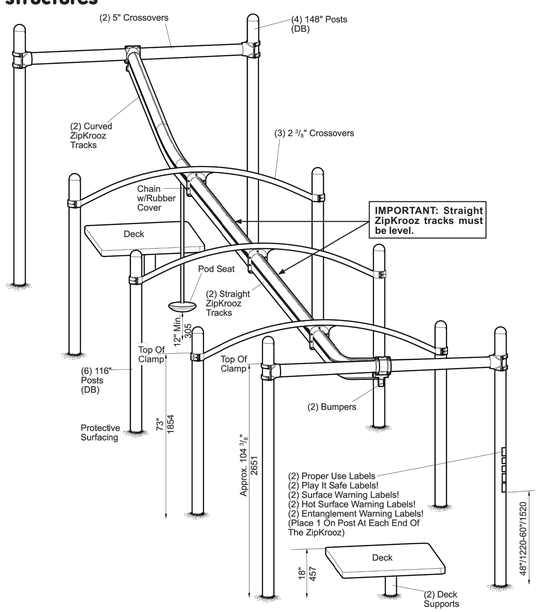
2 5-12 YEARS - BOOGIE BOARD

Scale: NTS

landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



Kids In Motion **194663 ZipKrooz®, 66 Ft.**

3 5-12 YEARS - ZIPLINES

Scale: NTS

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP
A GAI Consultants, Inc. Service Group
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
TRIANGLE ELEMENTARY PARK
MOUNT DORA, LAKE COUNTY, FL

CLIENT
MOUNT DORA LEISURE SERVICES
900 N. DONNELLY STREET
MOUNT DORA, FL 32757
352.735.7183 tel

OWNER
LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD
TAVARES, FL 32778
352.253.6500 tel

CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
PLAYGROUND EQUIPMENT

SHEET NUMBER
HS.25

SHEET **OF**

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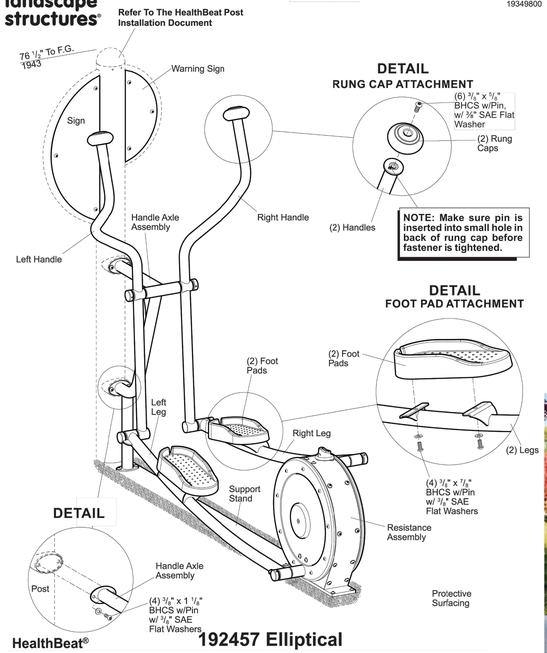
Last Saved: By: YW/IM
Last Plotted Date: 10/29/2021 12:44 PM

landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F3101.)

19349800



HealthBeat®

192457 Elliptical

1 13 YEARS PLUS - ELLIPTICAL

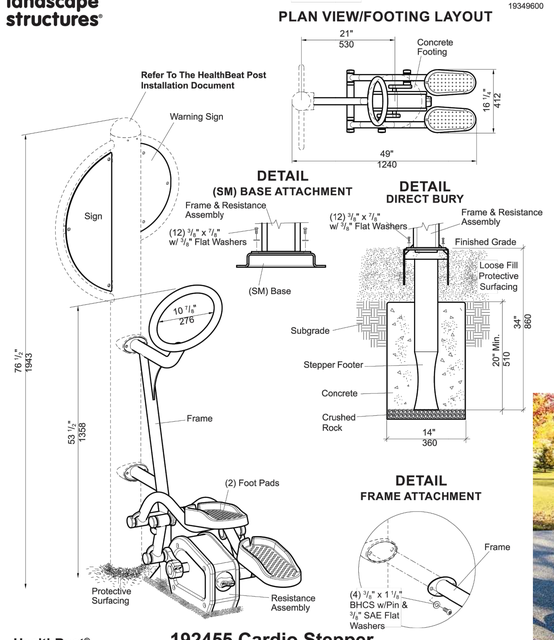
Scale: NTS

landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F3101.)

19349600



HealthBeat®

192455 Cardio Stepper

2 13 YEARS PLUS - STEPPER

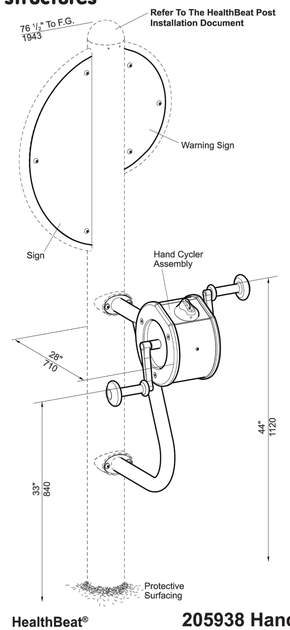
Scale: NTS

landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F3101.)

20593900



HealthBeat®

205938 Hand Cycler

3 13 YEARS PLUS - HAND CYDER

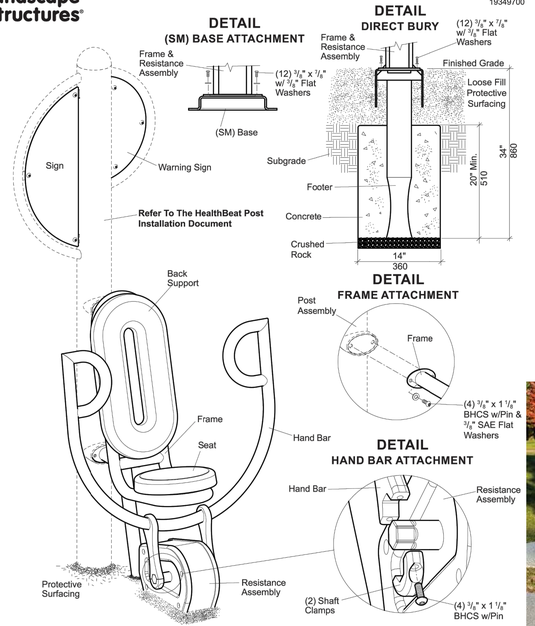
Scale: NTS

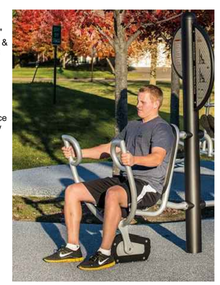
landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F3101.)

19349700





HealthBeat®

192456 Chest/Back Press

4 13 YEARS PLUS - CHEST/ BACK PRESS

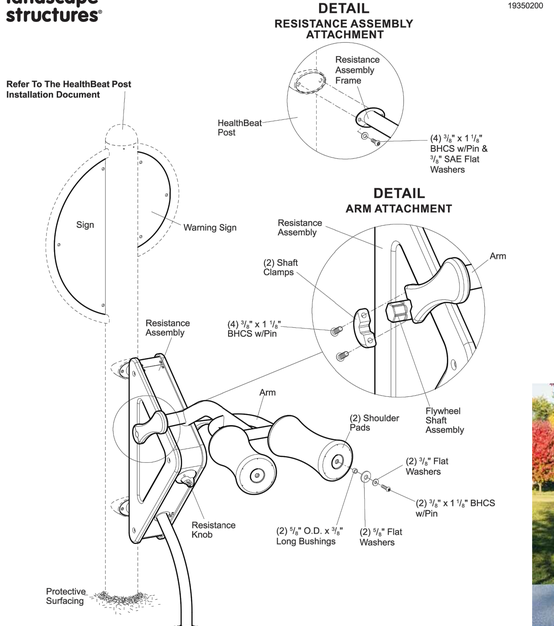
Scale: NTS

landscape structures®

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F3101.)

19350200



HealthBeat®

192461 Squat Press

5 13 YEARS PLUS - SQUAT PRESS

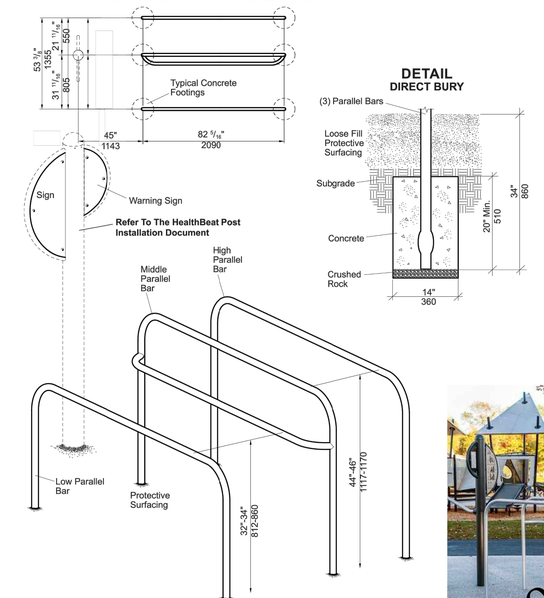
Scale: NTS

landscape structures® PLAN VIEW \FOOTING LAYOUT

ISO 14001 CERTIFIED | ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F3101.)

19349400



HealthBeat®

192453 Parallel Bars

6 13 YEARS PLUS - PARALLEL BARS

Scale: NTS

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP
A GAI Consultants, Inc. Service Group
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
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CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	N/A
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
PLAYGROUND EQUIPMENT

SHEET NUMBER
HS.26

SHEET OF

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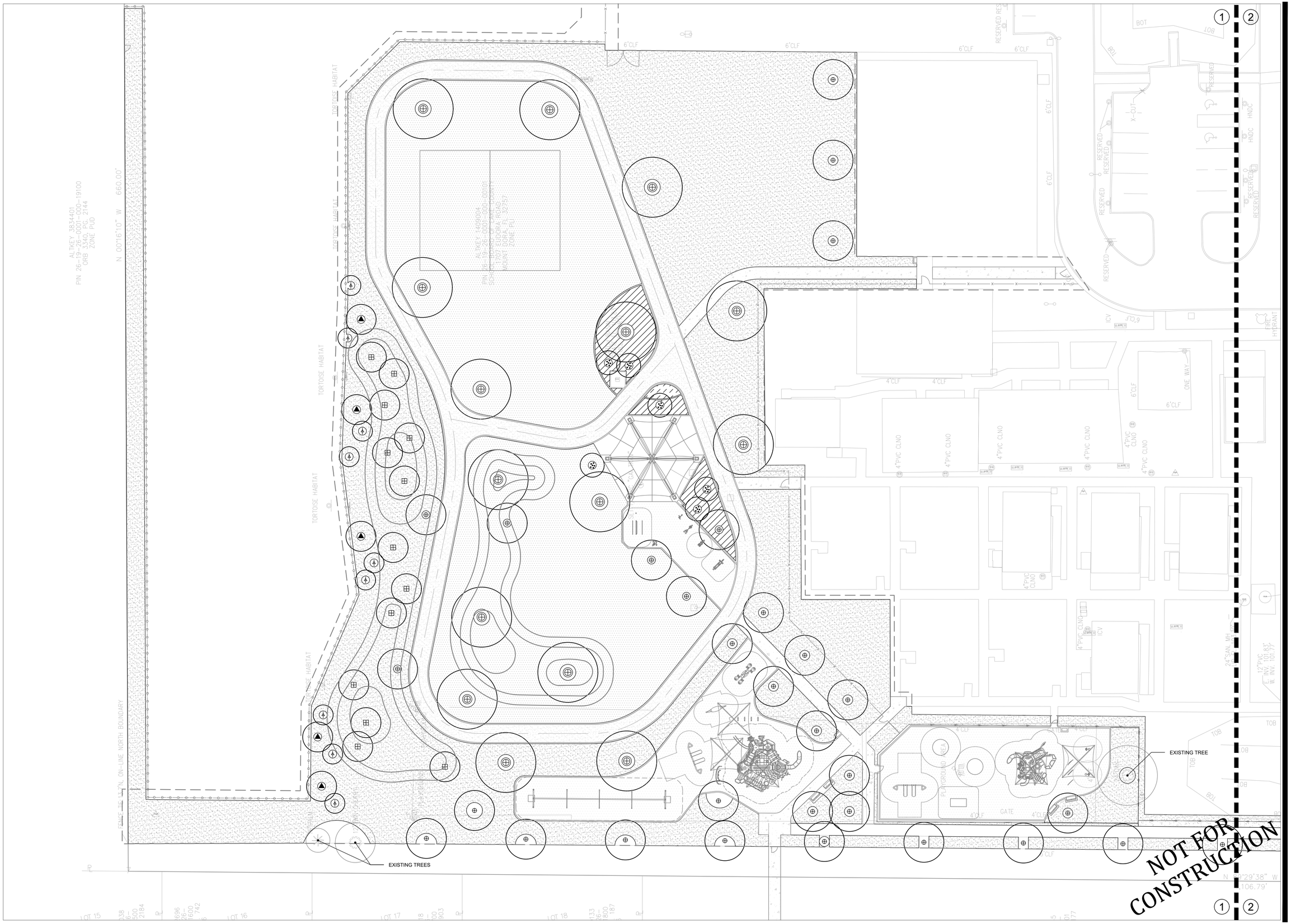

COMMUNITY SOLUTIONS GROUP

A GAI Consultants, Inc. Service Group

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

TRIANGLE ELEMENTARY PARK

MOUNT DORA, LAKE COUNTY, FL

CLIENT

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REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	SCALE: 1"=20'-0"
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE — NORTH

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

LS.01

SHEET **OF**

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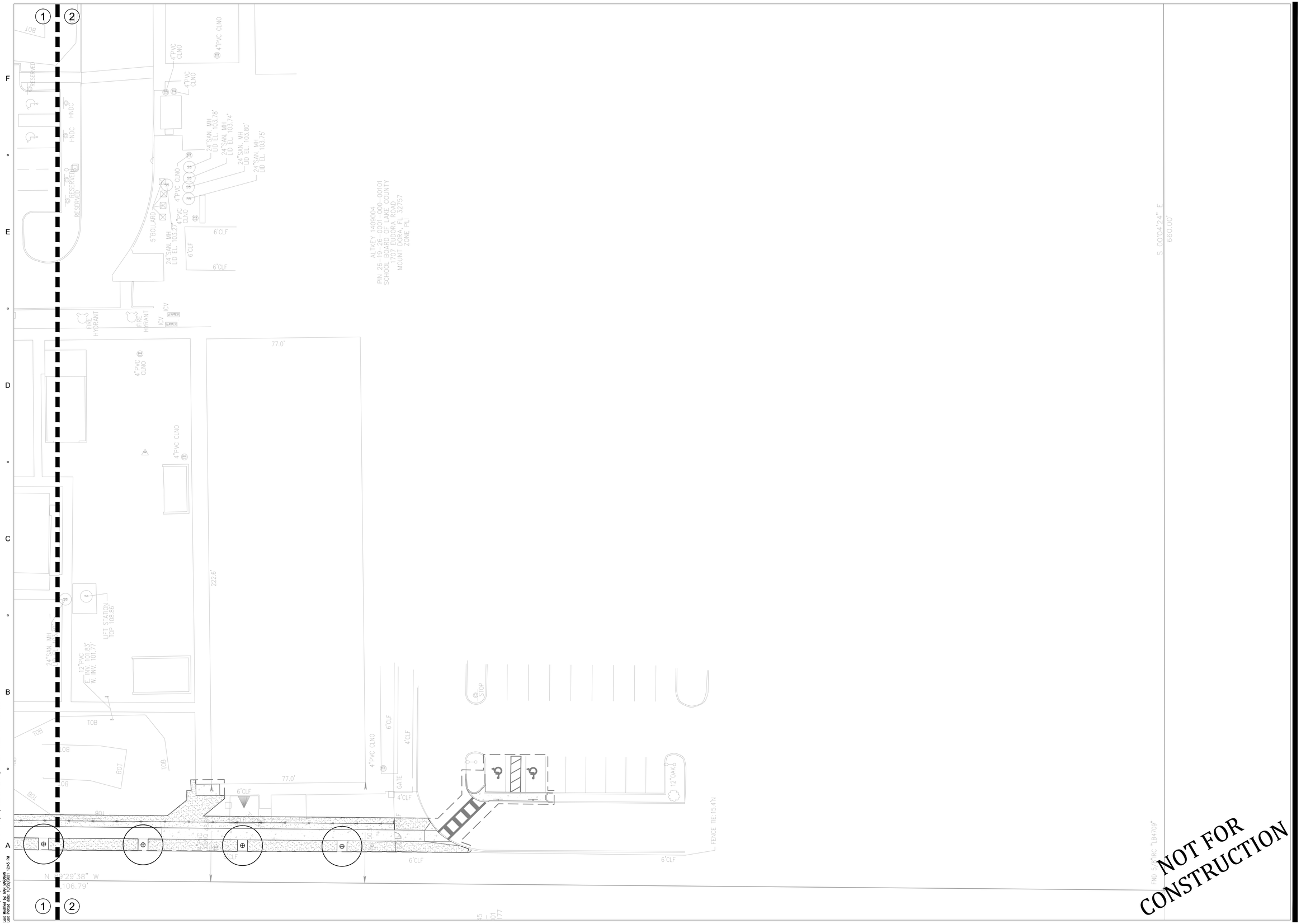

NOT FOR CONSTRUCTION

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Last Saved: 10/29/2021 10:45 PM
Last Plotted Jan. 10, 2022

COMMUNITY SOLUTIONS GROUP

A GAI Consultants, Inc. Service Group

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
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CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

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SCALE:	SCALE: 1"=20'-0"
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE NORTH

SHEET TITLE

LANDSCAPE PLAN

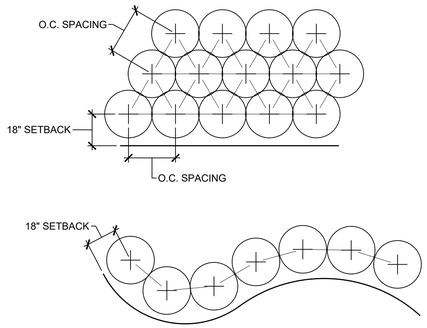
SHEET NUMBER

LS.02

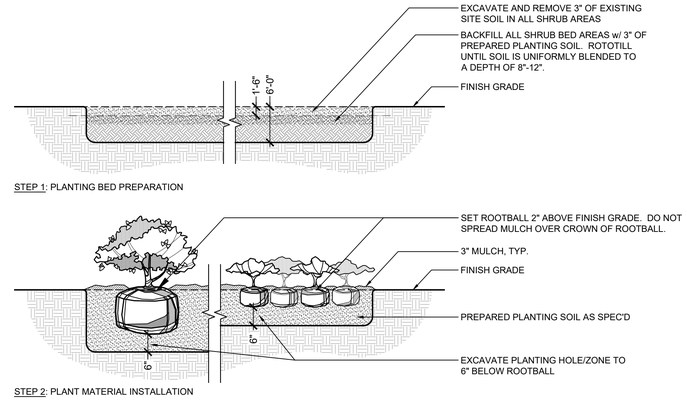
SHEET OF

NOTES:

1. THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED AT WITH A ROW OF PLANTS AS SHOWN IN THIS DETAIL, AT THE O.C. SPACING SHOWN IN THE PLANT LIST.
2. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED IN A TRIANGULAR PATTERN AS SHOWN IN THIS DETAIL, AT THE O.C. SPACING SHOWN IN THE PLANT LIST.
3. SETBACKS ARE APPLICABLE AGAINST ALL HARDSCAPE SURFACES AND SOD EDGES.



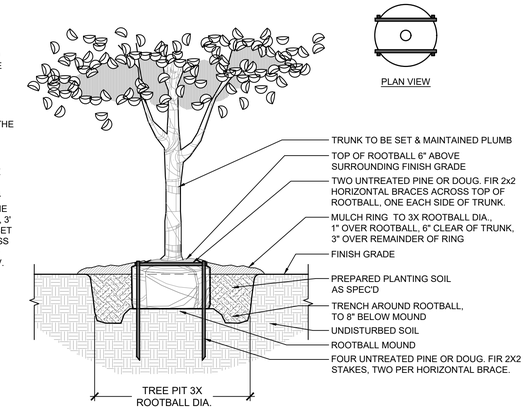
1 LS.11 TRIANGULAR PLANT LAYOUT DETAIL
SCALE: N.T.S.



2 LS.11 SHRUBS & GROUNDCOVER PLANTING
SCALE: N.T.S.

NOTES:

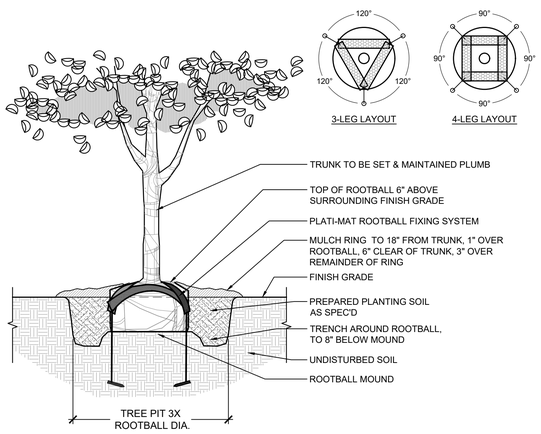
1. EXCAVATE OVERALL PLANTING HOLE TO DEPTH NECESSARY TO SET TOP OF ROOTBALL 6" ABOVE SURROUNDING FINISH GRADE. THIS IS THE ROOTBALL MOUND ELEVATION.
2. EXCAVATE A TRENCH TO AN ADDITIONAL 8" DEPTH AROUND THE ROOTBALL MOUND.
3. ASSURE PERCOLATION OF PLANTING HOLE PRIOR TO SETTING THE TREE. NOTIFY THE OWNER IF SATISFACTORY PERCOLATION IS NOT ACHIEVED.
4. INSTALL 2x2 STAKES AGAINST THE OUTER EDGE OF THE ROOTBALL, 3' MIN. INTO UNDISTURBED SOIL. SET 2x2 HORIZONTAL BRACES ACROSS TOP OF ROOTBALL AND SECURE TO STAKES w/ 3" LONG H.D. GALV. WOOD SCREWS.



3 LS.11 TREE PLANTING DETAIL (15-45 GAL.)
SCALE: N.T.S.

NOTES:

1. EXCAVATE OVERALL PLANTING HOLE TO DEPTH NECESSARY TO SET TOP OF ROOTBALL 6" ABOVE SURROUNDING FINISH GRADE. THIS IS THE ROOTBALL MOUND ELEVATION.
2. EXCAVATE A TRENCH TO AN ADDITIONAL 8" DEPTH AROUND THE ROOTBALL MOUND.
3. ASSURE PERCOLATION OF PLANTING HOLE PRIOR TO SETTING THE TREE. NOTIFY THE OWNER IN WRITING IF SATISFACTORY PERCOLATION IS NOT ACHIEVED.
4. CONSULT PLATIPUS-US FOR APPROPRIATE PLATI-MAT PRODUCT SPEC/KIT FOR EACH TREE SIZE IN THE PROJECT SCOPE. PROVIDE A PRODUCT SUBMITTAL FOR EACH SEPARATE PRODUCT SPEC/KIT FOR APPROVAL.



4 LS.11 TREE PLANTING DETAIL (65-300 GAL.)
SCALE: N.T.S.

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	
⊞	13	Acer rubrum `Florida Flame` / Florida Flame Red Maple	RPG.	18` HT. X 8` W	4" Cal.	
⁘	6	Lagerstroemia fauriei 'Muskogee' / Japanese Crape Myrtle	100 gal	MULTI-TRUNK	14`-16` OA	
⅄	9	Pinus elliotti / Slash Pine	F.G.	2.5" CAL.	10`-12` HT. X 5`-6` SPRD.	
▲	5	Pinus elliotti / Slash Pine	F.G.	5" CAL.	16` HT. X 8` SPRD. 8` C.T.	
⊕	33	Quercus virginiana Cathedral / Southern Live Oak	100 GAL.	4"Cal	14` HT X 6` SPRD, 6` CT	
⊕	15	Quercus virginiana Cathedral / Southern Live Oak	F.G.	6"Cal	22`-25` HT, 8` CT.	
SHRUB AREAS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE		
	787	Juniperus chinensis 'Parsonii' / Parsoni Juniper	1 gal	12"-15" Sprd.		18" o.c.
	44	Trachelospermum asiaticum / Asiatic Jasmine	1 gal	Full		18" o.c.
SOD	QTY	BOTANICAL / COMMON NAME	CONT	SIZE		
	30,724 sf	Cynodon dactylon x C. transvaalensis / TifTuf Certified Bermuda Grass TM	SOD			
	52,573 sf	Paspalum notatum / Argentine Bahia Grass	SOD			
	654 sf	Stenotaphrum secundatum / St. Augustine Grass	SOD	SOD		

NOT FOR CONSTRUCTION

COMMUNITY SOLUTIONS GROUP
A GAI Consultants, Inc. Service Group
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407.423.8398
CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT
TRIANGLE ELEMENTARY PARK
MOUNT DORA, LAKE COUNTY, FL

CLIENT
MOUNT DORA LEISURE SERVICES
900 N. DONNELLY STREET
MOUNT DORA, FL 32757
352.735.7183 tel

OWNER
LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD
TAVARES, FL 32778
352.253.6500 tel

CONSULTANTS

REGISTRATION

ISSUED FOR:

60% CD	10.29.2021

PROJECT NUMBER	A171115.09
DATE:	10.29.2021
SCALE:	AS NOTED
DRAWN BY:	YW/IM
CHECKED BY:	KA

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
LANDSCAPE DETAILS

SHEET NUMBER
LS.11

SHEET OF

Filename: Z:\MPW\2017\A171115.09 - TRIANGLE ELEM PK RES\CAD\PRODUCTION DRAWINGS\A171115.09 - TRIANGLE ELEM - LS DETAILS.DWG
Last Saved By: YWIM
Last Plotted Date: 10/29/2021 12:45 PM

DEMOLITION NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS.
2. THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS DEEMED USEABLE AS SPARE PARTS.
3. EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM EXISTING DOCUMENTS AND FIELD INVESTIGATION. IT IS RECOMMENDED FOR CONTRACTOR TO VISIT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
4. THE CONTRACTOR SHALL INSURE THAT CONDUITS REMAINING WITHIN THE PROJECT AREA ARE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. CONDUITS THAT ARE ATTACHED TO ITEMS BEING REMOVED DURING DEMOLITION SHALL BE SUPPORTED FROM THE STRUCTURE PRIOR TO REMOVING ITEM.
5. EXISTING PANEL DIRECTORIES SHALL BE UPDATED TO REFLECT CURRENT CONDITIONS.
6. CONTRACTOR SHALL PATCH, PAINT AND MATCH FINISH WITH EXISTING SURFACES TO REMAIN WHERE ELECTRICAL DEVICES ARE BEING REMOVED.
7. CONTRACTOR SHALL REVIEW NEW FLOOR PLANS FOR DEVICES TO REMAIN PRIOR TO DEMOLITION. EXISTING DEVICES TO REMAIN ARE SHOWN LIGHT IN COLOR.
8. CONTRACTOR SHALL REVIEW NEW FLOOR PLANS FOR CIRCUITS TO REMAIN AND BE REUSED FOR NEW DEVICES PRIOR TO DEMOLITION.

MISCELLANEOUS

SYMBOL	DESCRIPTION
3P/60A 3R NF	DISCONNECT SWITCH, NON-FUSIBLE 3 POLE, 60 AMP, NF: NON-FUSED, 3R: NEMA 3R ENCLOSURE
3P/60A 3R F:50A	DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, FUSED AT 50 AMPS, 3R: NEMA 3R ENCLOSURE
3P/60A 3R Nx	COMBINATION STARTER / DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, NEMA x SIZE, 3R: NEMA 3R ENCLOSURE
	MAGNETIC MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER, AS INDICATED
VFD	VFD-RATED, REMOTE DISCONNECT SWITCH WITH EARLY-BREAK, AUXILIARY CONTACTS FOR VFD DECELERATE-TO-STOP SIGNAL. CONNECT CONTROL WIRING TO ASSOCIATED VFD (AS REQUIRED).
	PANELBOARD, 480 / 277V
	PANELBOARD, 208 /120V
MH	MANHOLE
HH	HANDHOLE
SPD	SURGE PROTECTION DEVICE
	ELECTRICAL METER
TX	TRANSFORMER
HP	MOTOR CONNECTION, HP: DENOTES HORSEPOWER RATING
	GROUND BUS BAR
	PUSHBUTTON
	3/4" PLYWOOD TELEPHONE BACKBOARD
	CONCRETE ENCASED DUCTBANK
	HOMERUN TO PANEL INDICATED NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS
	WIRE IN CONDUIT CONCEALED, #12 AWG SIZE WIRE IN 1/2" CONDUIT MINIMUM UNLESS OTHERWISE NOTED
	WIRE IN CONDUIT CONCEALED BELOW SLAB OR GRADE
	CONDUIT EXPOSED
	FLEXIBLE CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB

RECEPTACLE(S)

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. AUTOMATIC SWITCHED RECEPTACLE
	QUADRUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. HALF-AUTOMATIC SWITCHED RECEPTACLE
	QUADRAPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
	QUADRAPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
	SINGLE RECEPTACLE, 20 AMP, 120V U.O.N.
	GFI - TYPE DUPLEX RECEPTACLE (WP: DENOTES WEATHERPROOF COVER)
	GFI - TYPE DOUBLE DUPLEX RECEPTACLE
	GFI - DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS OTHERWISE NOTED
	GFI - DOUBLE DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS OTHERWISE NOTED
	SPECIAL PURPOSE RECEPTACLE (NEMA RATING AS INDICATED)
	QUADRAPLEX RECEPTACLE, TICK MARKS DENOTE EMERGENCY (TYPICAL ALL RECEPTACLES)
	DUPLEX RECEPTACLE - HALF SWITCHED
	DUPLEX RECEPTACLE - CEILING MOUNTED
IG	DUPLEX RECEPTACLE WITH ISOLATED GROUND
	DUPLEX RECEPTACLE - FLOOR MOUNTED
PP	POWER POLE
J	JUNCTION BOX - CEILING MOUNTED
J	JUNCTION BOX - WALL MOUNTED
J	JUNCTION BOX - FLOOR / GROUND MOUNTED

LIGHTING

SYMBOL	DESCRIPTION
	CEILING MOUNTED 2'x2' / 2'x4' LUMINAIRE - RECESSED NORMAL POWER
	CEILING MOUNTED 2'x2' / 2'x4' LUMINAIRE - RECESSED EMERGENCY POWER
	CEILING MOUNTED 1'x4' LUMINAIRE RECESSED OR SURFACE MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LUMINAIRE RECESSED OR SURFACE MOUNTED - EMERGENCY POWER
	CEILING MOUNTED 1'x4' LUMINAIRE PENDANT MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LUMINAIRE PENDANT MOUNTED - EMERGENCY POWER
	STRIP LUMINAIRE - NORMAL POWER
	STRIP LUMINAIRE - EMERGENCY POWER
	DOWNLIGHT LUMINAIRE - NORMAL POWER
	DOWNLIGHT LUMINAIRE - EMERGENCY POWER
	WALL MOUNTED LUMINAIRE - NORMAL POWER
	WALL MOUNTED LUMINAIRE - EMERGENCY POWER
	CEILING FAN
	TRACK LIGHTING WITH LUMINAIRE
	UNDERCOUNTER LUMINAIRE
	FLOOD LIGHT LUMINAIRE
	POLE LIGHT LUMINAIRE
	BOLLARD LUMINAIRE
	STEP LIGHT LUMINAIRE
	EMERGENCY BATTERY LIGHT UNIT
	EXIT LIGHT - SINGLE FACE WITH DIRECTIONAL ARROW
	EXIT LIGHT - DOUBLE FACE
	EXIT LIGHT - WALL MOUNTED

GENERAL NOTES

1. THE ELECTRICAL CONTRACT DOCUMENTS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL CONFIGURATION OF SYSTEMS AND WORK. EXAMINE ARCHITECTURAL, INTERIOR DESIGN, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TECHNOLOGY, AND FOOD SERVICE DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND REQUIREMENTS OF DEVICES, EQUIPMENT, LUMINARIES, AND SYSTEMS. CONTENT INDICATED ON THE SPECIFICATIONS BUT NOT THE DRAWINGS, OR CONTENT INDICATED ON THE DRAWINGS BUT NOT THE SPECIFICATIONS, SHALL BE INTERPRETED AS BEING PRESENT ON BOTH.
2. PROVIDE ALL DEVICES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED FOR A COMPLETE, FUNCTIONAL, AND CODE-COMPLIANT ELECTRICAL SYSTEM. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODES AND STANDARDS INDICATED ON THIS SHEET.
3. ALL DEVICES, EQUIPMENT, ACCESSORIES, AND MATERIALS SHALL BE NEW, AND, WHERE APPLICABLE, SHALL BE LISTED BY U.L. OR ANOTHER APPROVED ELECTRICAL TESTING AGENCY.
4. COORDINATE LOCATIONS AND REQUIREMENTS OF EQUIPMENT REQUIRING ELECTRICAL SERVICE (I.E. PRINTERS, APPLIANCES, MOTORIZED PROJECTION SCREENS, MOTORIZED SHADES, ELEVATORS, TOOLS, ETC.) WITH APPROVED SHOP DRAWINGS, SPECIFICATION SHEETS, MANUFACTURER'S INSTALLATION LITERATURE, AND EQUIPMENT NAMEPLATE DATA, PRIOR TO ROUGH-IN AND INSTALLATION. PROVIDE ELECTRICAL CONNECTIONS (AS REQUIRED).
5. BID SHALL INCLUDE COSTS ASSOCIATED WITH BACKFILLING, CORE DRILLING, DIRECTIONAL BORING, EXCAVATING, AND REPAIRING OF SURFACES.
6. PAY ALL FEES, TAXES, AND OTHER COSTS ASSOCIATED WITH THE WORK ENCOMPASSED BY THE ELECTRICAL CONTRACT DOCUMENTS. PROVIDE ALL REQUIRED NOTICES AND OBTAIN ALL REQUIRED PERMITS.
7. PROVIDE COOPERATION WITH OTHER TRADES AND PROVIDE ANY INFORMATION REQUIRED TO FACILITATE THE COMPLETION OF THEIR WORK. COORDINATE DEVICE AND EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS WITH OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION. COORDINATE CONDUIT ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.
8. COORDINATE ALL REQUIREMENTS WITH THE LOCAL UTILITY PRIOR TO ROUGH-IN AND INSTALLATION. COORDINATE LOCATIONS OF UTILITY HANDHOLES, AERIAL UTILITY TRANSFORMERS, AND/OR PAD-MOUNTED UTILITY TRANSFORMERS.
9. PROVIDE TEMPORARY ELECTRICAL SERVICE(S) FOR USE BY OTHER TRADES DURING PROJECT CONSTRUCTION. UPON COMPLETION OF THE PROJECT, THE TEMPORARY ELECTRICAL SERVICE(S) SHALL BE REMOVED.
10. WITHIN THIRTY (30) DAYS OF SYSTEM ACCEPTANCE, PROVIDE RECORD DRAWINGS TO THE OWNER. DRAWINGS SHALL BE COMPRISED OF SINGLE-LINE DIAGRAMS AND FLOOR PLANS INDICATING THE LOCATIONS AND AREAS SERVED FOR ALL DISTRIBUTION.
11. WITHIN THIRTY (30) DAYS OF SYSTEM ACCEPTANCE, PROVIDE AN OPERATING MANUAL AND MAINTENANCE MANUAL TO THE OWNER. THE MANUALS SHALL INCLUDE THE FOLLOWING INFORMATION: SUBMITTAL DATA WITH EQUIPMENT RATINGS AND SELECTED OPTIONS, OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT REQUIRING MAINTENANCE, NAMES AND ADDRESSES OF A MINIMUM OF ONE (1) QUALIFIED SERVICE AGENCY.
12. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL-MOUNTED ELECTRICAL DEVICES AND EQUIPMENT WITH THE ARCHITECTURAL DRAWINGS, GENERAL CONTRACTOR, CASEWORK/MILLWORK, AND OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.
13. EQUIPMENT LOCATIONS SHALL SATISFY THE WORKING CLEARANCE REQUIREMENTS AND DEDICATED SPACE REQUIREMENTS OF NEC ARTICLE 110. PROVIDE SHOP DRAWINGS, DEMONSTRATING COMPLIANCE AND INTER-DISCIPLINARY COORDINATION, FOR ENGINEERING REVIEW.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, AND ELEVATIONS FOR LOCATIONS AND/OR MOUNTING HEIGHTS OF LUMINARIES LOCATED AT CEILINGS AND/OR WALLS. VERIFY THAT CEILING-MOUNTED LUMINARIES ARE SUITABLE FOR THE FINISHED CEILING SYSTEM INDICATED AND PROVIDE ACCORDINGLY. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF WALL-MOUNTED LUMINARIES WITH CASEWORK, FURNITURE, AND ARCHITECTURAL ELEMENTS. WHERE ARCHITECTURAL REFLECTED CEILING PLANS INDICATE FIRE-RATED CEILING SYSTEMS, PROVIDE UL-LISTED LUMINAIRE ENCLOSURES (AS REQUIRED).
15. PROVIDE A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE NEC AND SPECIFICATIONS. BOND SERVICE ENTRANCE ELECTRICAL EQUIPMENT TO BUILDING STEEL, GROUND RODS, METAL WATER MAINS, LIGHTNING PROTECTION SYSTEM GROUNDING ELECTRODES (WHERE PRESENT), AND TELECOMMUNICATIONS SYSTEM GROUNDING ELECTRODES (AS REQUIRED). EQUIPMENT GROUNDING SHALL BE OF THE WIRE TYPE.
16. MINIMUM CONDUIT SIZE SHALL BE 3/4".
17. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE INSTALLED WITHIN CONDUIT, UNLESS OTHERWISE INDICATED. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE INDICATED.
18. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT. MULTI-WIRE BRANCH CIRCUITS SHALL BE PROHIBITED.
19. CONNECTIONS TO TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE MADE WITH FMC OR LFMC, UNLESS OTHERWISE INDICATED.
20. WHERE PRACTICABLE, CONDUITS SHALL BE CONCEALED BELOW SLABS, WITHIN WALLS, AND ABOVE FINISHED CEILING SYSTEMS. WHERE CONDUITS ARE EMBEDDED WITHIN CONCRETE SLABS, COORDINATE CONDUIT SIZE LIMITATIONS AND SPACING REQUIREMENTS WITH THE STRUCTURAL DRAWINGS/ENGINEER PRIOR TO INSTALLATION.
21. SEAL ALL CONDUIT PENETRATIONS AT FIRE-RATED PARTITIONS. REFER TO DETAILS FOR FURTHER INFORMATION.
22. COORDINATE ALL CONDUIT PENETRATIONS WITH ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, FIELD CONDITIONS, AND OTHER TRADES. PROVIDE SEALING FITTINGS TO PROHIBIT CONDENSATION AND/OR THE PASSAGE OF GASES OR VAPORS (AS REQUIRED).
23. INCREASE FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZES AS REQUIRED IN ORDER TO MAINTAIN A MAXIMUM, CUMULATIVE VOLTAGE DROP OF 5% AT THE END LOAD. MAXIMUM VOLTAGE DROP SHALL BE DISTRIBUTED AS FOLLOWS: 3% FOR FEEDERS, 2% FOR BRANCH CIRCUITS. WHERE THE VOLTAGE DROP REQUIREMENTS OF THE LOCAL ENERGY CODE ARE MORE STRINGENT, THE REQUIREMENTS OF THE LOCAL ENERGY CODE SHALL TAKE PRECEDENCE. WHERE PHASE AND NEUTRAL CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCREASED PROPORTIONATELY.
24. PROVIDE ALL REQUIRED DISCONNECT SWITCHES, STARTERS, AND COMBINATION STARTER/DISCONNECT SWITCHES. MAKE CONNECTIONS TO ALL ELECTRICALLY-DRIVEN DEVICES AND EQUIPMENT PROVIDED BY THE MECHANICAL, PLUMBING, AND FIRE PROTECTION CONTRACTORS. EXAMINE EQUIPMENT NAMEPLATE RATINGS PRIOR TO ROUGH-IN AND INSTALLATION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT NAMEPLATE RATINGS. PROVIDE ALL POWER SUPPLIES, CONTROL TRANSFORMERS, RELAYS, AND OTHER ACCESSORIES REQUIRED TO FACILITATE THE PROPER OPERATION OF MECHANICAL EQUIPMENT AS DESCRIBED WITHIN THE MECHANICAL ENGINEER'S SEQUENCE OF OPERATIONS.
25. ALL INTERIOR ELECTRICAL EQUIPMENT SHALL BE OF NEMA 1 CONSTRUCTION, UNLESS OTHERWISE INDICATED. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE OF NEMA 3R CONSTRUCTION, UNLESS OTHERWISE INDICATED. EQUIPMENT RATINGS SHALL CORRESPOND TO THEIR INSTALLED ENVIRONMENTS.
26. ALL NEW AND/OR EXISTING PANELBOARDS AND SWITCHBOARDS WITHIN THE SCOPE OF THIS PROJECT SHALL BE PROVIDED WITH NEW, TYPEWRITTEN DIRECTORIES. CIRCUIT DESCRIPTIONS SHALL CONTAIN ROOM NAMES AND ROOM NUMBERS BASED UPON INSTALLED ROOM SIGNAGE.
27. PROVIDE PHENOLIC, ENGRAVED IDENTIFICATION PLACARDS AT ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, CABINETS, AND AUTOMATIC TRANSFER SWITCHES. REFER TO DETAILS FOR FURTHER INFORMATION.
28. PROVIDE PHENOLIC, ENGRAVED IDENTIFICATION PLACARDS AT EACH CIRCUIT BREAKER WITHIN A DISTRIBUTION PANEL, SWITCHBOARD, OR SWITCHGEAR.
29. PROVIDE TYPEWRITTEN OR ENGRAVED PANEL AND CIRCUIT IDENTIFICATION AT DEVICE COVER PLATES.
30. PROVIDE HANDWRITTEN PANEL AND CIRCUIT IDENTIFICATION ON THE EXTERIORS OF ALL JUNCTION BOXES, PULL BOXES, AND WIREWAYS.

FIELD VERIFY ALL LOCATION

1. DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
3. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COST FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES	IMC	INTERMEDIATE METAL CONDUIT
AC	ALTERNATING CURRENT	KCMIL	THOUSAND CIRCULAR MILS
A/C	AIR CONDITIONING	KVA	KILOVOLT - AMPERES
AFCI	ARC FAULT CIRCUIT INTERRUPTER	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
AHU	AIR HANDLING UNIT	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY	LRA	LOCK ROTOR AMPS
AL	ALUMINUM	MC	METAL CLAD CABLE
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
C	CONDUIT	MCP	MOTOR CIRCUIT PROTECTION
CATV	CABLE TELEVISION	MLO	MAIN LUGS ONLY
CB	CRITICAL BRANCH	MTD	MOUNTED
C/B	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CCTV	CLOSED CIRCUIT TELEVISION	NEC	NATIONAL ELECTRICAL CODE
CIR	CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CU	COPPER	NL	NIGHT LIGHT
DC	DIRECT CURRENT	NO	NORMALLY OPEN OR NUMBER
DIA	DIAMETER	P	POLE
EB	EQUIPMENT BRANCH	PB	PUSH BUTTON, PANIC BUTTON OR PULLBOX
EC	ELECTRICAL CONTRACTOR	PNL	PANEL
EF	EXHAUST FAN	PWR	POWER
ELEV	ELEVATOR	QTY	QUANTITY
EM	EMERGENCY	REQ	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RMC	RIGID METAL CONDUIT
EP	EMERGENCY POWER	RNC	RIGID NON-METALLIC CONDUIT
EPO	EMERGENCY POWER OFF (BUTTON OR SWITCH)	RTS	REMOTE TEST STATION
ER	EXISTING TO BE REMOVED	RTU	ROOF TOP UNIT
ETR	EXISTING TO BE RELOCATED	SP	SPARE
EWC	ELECTRIC WATER COOLER	ST	SHUNT-TRIP
EX	EXISTING TO REMAIN	SW	SWITCH
F	FUSE	SYM	SYMMETRICAL
FA	FIRE ALARM	TEL	TELEPHONE
FAA	FIRE ALARM ANNUNCIATOR PANEL	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FLA	FULL LOAD AMPERES	TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
FMC	FLEXIBLE METAL CONDUIT	TYP	TYPICAL
G, GND	GROUND	UG	UNDERGROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORY
GND	GROUND	V	VOLT
GRC	GALVANIZED RIGID METAL CONDUIT	VA	VOLT - AMPERE
HOA	HAND-OFF-AUTOMATIC SWITCH	VFD	VARIABLE FREQUENCY DRIVE
HVAC	HEATING, VENTILATION, AIR CONDITIONING	W	WATT OR WIRE
HZ	HERTZ	WH	WATER HEATER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	WP	WEATHERPROOF
IG	ISOLATED GROUND	XFMR	TRANSFORMER

SWITCHES

SYMBOL	DESCRIPTION
$	SINGLE POWER TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)
$3	THREE-WAY TOGGLE SWITCH
$4	FOUR-WAY TOGGLE SWITCH
$M	MOTOR SWITCH
$F	FAN SWITCH
$3P	THREE POSITION SELECTOR SWITCH
$T	TIMER SWITCH (60 MINUTES)
$LV	LOW VOLTAGE SWITCH
$HOA	HAND-OFF-AUTOMATIC SWITCH
$K	KEY SWITCH
$WP	SWITCH - WEATHERPROOF
$OS	DUAL TECH WALL SWITCH OCCUPANCY SENSOR
$DOS	DUAL TECH, DUAL-LEVEL OCCUPANCY SENSOR SWITCH
$D	DIMMING SWITCH
OS	DUAL TECH OCCUPANCY SENSOR - CEILING MOUNTED
OS	DUAL TECH OCCUPANCY SENSOR - WALL MOUNTED
DH	DAYLIGHT HARVESTING SENSOR - CEILING MOUNTED
PC	PHOTOCELL
LC	LIGHTING CONTACTOR
TC	TIME CLOCK
PL	RELAY MODULE WITH 0-10V DIMMING OUTPUT
PR	PLUG LOAD RELAY PACK

CODES AND STANDARDS

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:

NFPA 70	NATIONAL ELECTRICAL CODE (2017)
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (2016)
NFPA 75	STANDARD FOR THE PROTECTION OF ELECTRONIC COMPUTER / DATA PROCESSING EQUIPMENT (2017)
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS (2018)
NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS (2018)
NFPA 92	RECOMMENDED PRACTICE FOR SMOKE CONTROL SYSTEMS (2015)
NFPA 101	LIFE SAFETY CODE (2018)
NFPA 110	STANDARD FOR EMERGENCY AND STAND-BY POWER SYSTEMS (2016)
NFPA 780	STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS (2017)
2020 FBC.	FLORIDA BUILDING CODE (2020)
2020 FFPC	FLORIDA FIRE PREVENTION CODE (2020)
	LOCAL JURISDICTION CODES AND / OR OWNER DESIGN GUIDELINES

COMMISSIONING

1. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL SUBMIT EVIDENCE TO THE REGISTERED DESIGN PROFESSIONAL (ELECTRICAL ENGINEER-OF-RECORD) OR REGISTERED DESIGN PROFESSIONAL'S REPRESENTATIVE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT THEY ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND SATISFY THE INTENT OF THESE CONTRACT DOCUMENTS AND THE MANUFACTURERS' WRITTEN INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH FBC C408.3.1.1 (VACANCY / OCCUPANCY SENSOR CONTROLS), FBC C408.3.1.2 (TIME-SWITCH CONTROLS), AND/OR FBC C408.3.1.3 (DAYLIGHT RESPONSIVE CONTROLS) (AS REQUIRED).

SHEET INDEX

NUMBER	NAME
E0-00	LEGEND - ELECTRICAL
E1-00	SITE PLAN - ELECTRICAL
E1-01	PHOTOMETRIC SITE PLAN - ELECTRICAL
E5-00	RISER DIAGRAM - ELECTRICAL

COMMUNITY SOLUTIONS GROUP

A GAI Consultants, Inc. Service Group

618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
407 423-8398

CERTIFICATE OF AUTHORIZATION: EB9951

PROJECT

TRIANGLE ELEMENTARY PARK

MOUNT DORA, LAKE COUNTY, FL

CLIENT

MOUNT DORA LEISURE SERVICES

900 N. DONNELLY STREET
MOUNT DORA, FL 32757
352.735.7183 tel

OWNER

LAKE COUNTY SCHOOLS

201 WEST BURLEIGH BLVD
TAVARES, FL 32778
352.253.6500 tel

CONSULTANTS

VOLT AIR

2180 Central Florida Parkway, Suite A8
Orlando, Florida 32837
Tel: 321.622.2230
www.VoltAirInc..com
COA #27158 Project #03.21009

Engineer of Record:
GERALD A. CRNKOVICH, P.E. #42527

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TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

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PROJECT NUMBER	A171115.09
DATE:	XX/XX/2021
SCALE:	AS NOTED
DRAWN BY:	R.T.
CHECKED BY:	R.F.W.

DRAWING SCALE AND NORTH ARROW

0 15 30 Feet

GRAPHIC SCALE **NORTH**

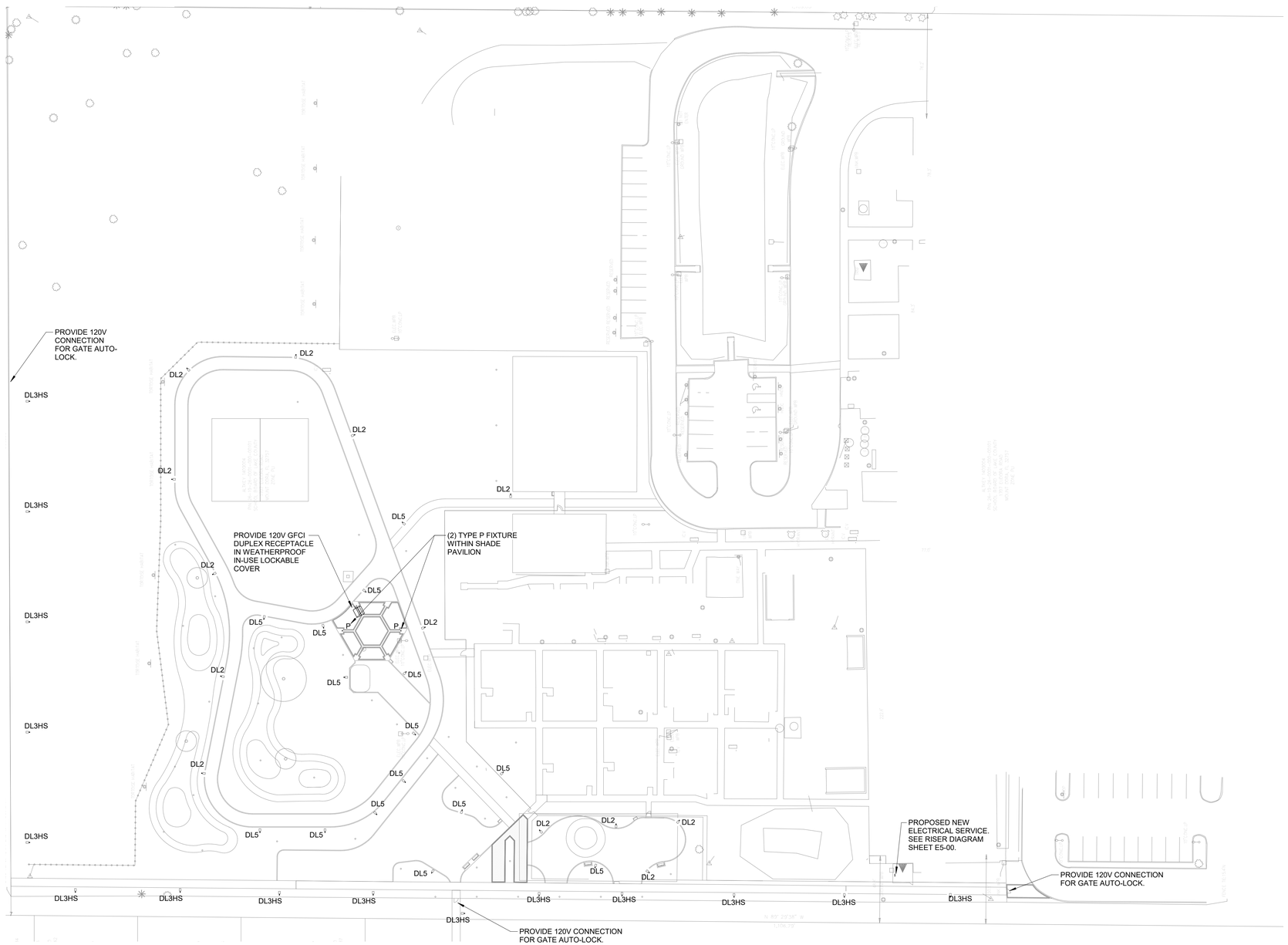
SHEET TITLE

LEGEND - ELECTRICAL

SHEET NUMBER

E0-00

SHEET OF



1 E1-00 **SITE PLAN - ELECTRICAL**
1" = 40'-0"

GENERAL NOTES

A. XXXX

KEY NOTES

NUMBER	NOTES

0' 15' 30' 60' 120'
SCALE: 1" = 30'-0"

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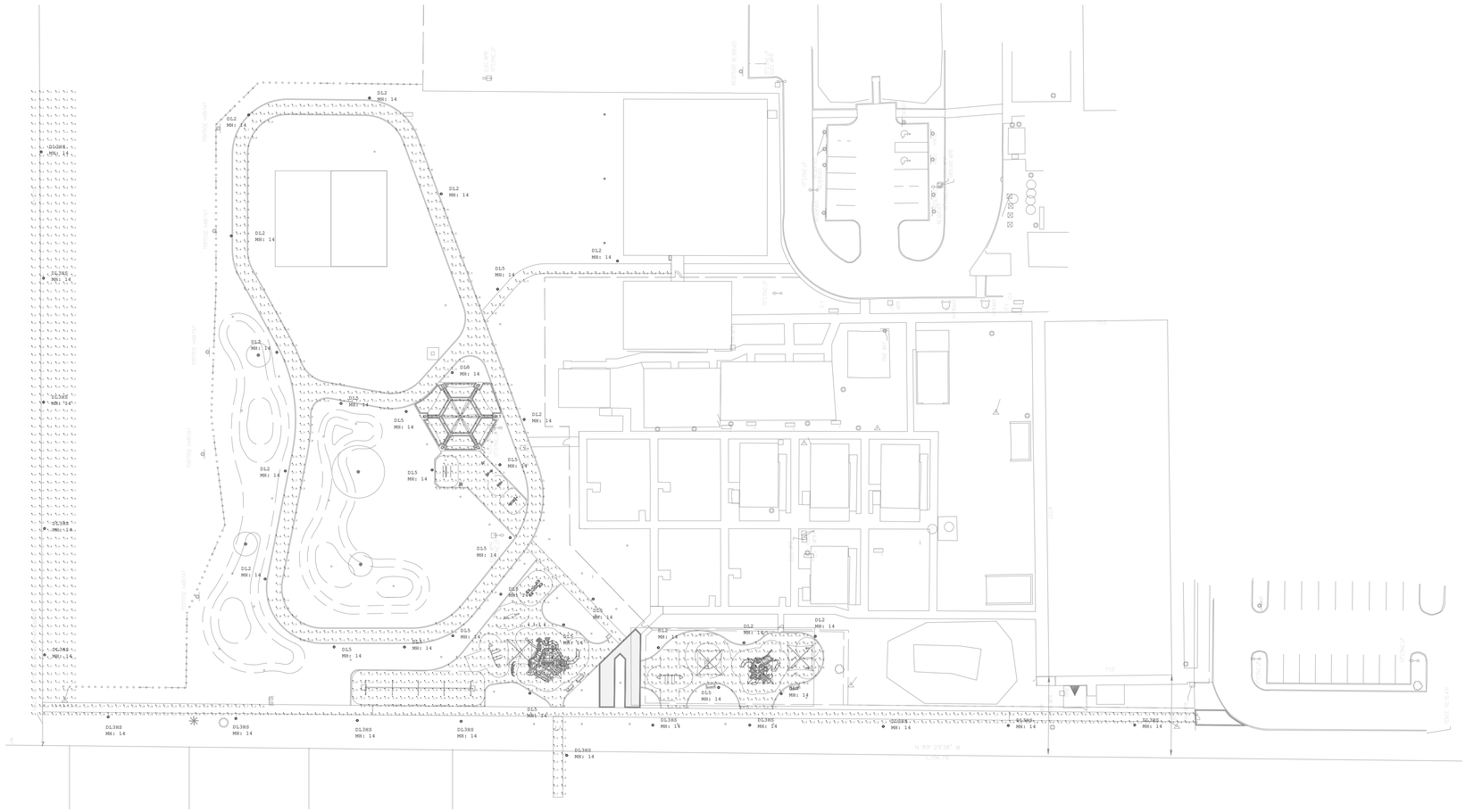
SITE PLAN - ELECTRICAL

SHEET NUMBER
E1-00

SHEET OF



Luminaire Schedule										
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	[MANUFAC]	Mounting Height
	13	DL2	Single	UR20 24L-25-4K7-2 UNV PT24 BLT /Valmont 1108 3040 4 T E P2 DBL HA	0.950	3099	25	325	Kim Lighting	14
	15	DL3HS	Single	UR20 24L-25-4K7-5W UNV PT24 BLT /Valmont 1108 3040 4 T E P2 DBL HA	0.950	1947	25	375	KIM LIGHTING	14
	15	DL5	Single	UR20 24L-25-4K7-5W UNV PT24 BLT /Valmont 1108 3040 4 T E P2 DBL HA	0.950	3237	25	375	Kim Lighting	14

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Big Playground Area	Illuminance	Fc	1.32	2.3	0.7	1.89	3.29
Pathway	Illuminance	Fc	1.44	3.7	0.1	14.40	37.00
Playground Area	Illuminance	Fc	2.39	3.9	1.0	2.39	3.90
South Pointing Sidewalk	Illuminance	Fc	1.25	2.3	0.5	2.50	4.60
South Sidewalk	Illuminance	Fc	0.93	2.6	0.1	9.30	26.00
West Sidewalk	Illuminance	Fc	0.59	2.3	0.0	N.A.	N.A.

GENERAL NOTES

A. XXXX

KEY NOTES

NUMBER	NOTES

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SCALE: 1" = 30'-0"

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0 15 30 Feet

GRAPHIC SCALE NORTH

SHEET TITLE

PHOTOMETRIC SITE PLAN - ELECTRICAL

SHEET NUMBER

E1-01

SHEET OF

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMP TYPE	VOLTAGE	INPUT WATTS
DL2	POLE MOUNTED PATHWAY FIXTURE	PROV2 36L 615-4K7 BLT PT4STND-MNT UNV / DB1 4R12-125 BLT	LED	120	25
DL5	POLE MOUNTED PATHWAY FIXTURE	PROV2 36L 615-4K7 SW BLT PT4SSND-MNT UNV / DB1 4R12-125 BLT	LED	120	25
DL3HS	POLE MOUNTED PATHWAY FIXTURE	UR20 24L-25-4K7-3 UNV PT24 PLT BC / FALMONT 1108 4 T E P2 DBL HA	LED	120	25
P	SHADE PAVILION FIXTURE	KIM LIGHTING #WDS U 24 30 4K7 4W UNV BLT	LED	120	30

NOTES:
1. VERIFY ALL FINISHES AND COLORS OF POLES AND FIXTURES WITH ARCHITECT AND OWNER PRIOR TO PURCHASE.
2. ALL FIXTURES SHALL CARRY U.L. WET LABEL.

PANEL LP

MAIN BREAKER 200A
MAIN LUGS

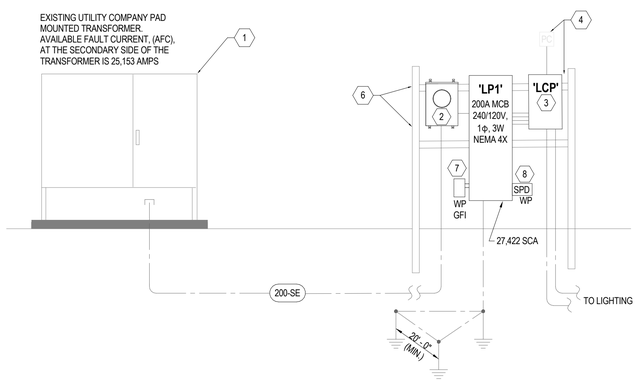
BUS RATING 225 A
AIC RATING

PHASE	CIRCUIT	MOUNT	NEMA	VOLTAGE
3	30	SURFACE		120/208 Wye

NOTES	CKT #	CIRCUIT DESCRIPTION	TRIP AMPS	BRKR. POLES	A PHASE LOAD kVA		B PHASE LOAD kVA		C PHASE LOAD kVA		BRKR. POLES	TRIP AMPS	CIRCUIT DESCRIPTION	CKT #	NOTES
	1													2	
	3													4	
	5													6	
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				PHASE kVA	0 VA		0 VA		0 VA						
				TOTAL kVA	0 VA				TOTAL AMPS		0 A				
				TOTAL DEMAND kVA	0 VA				DEM LOAD AMPS		0 A				

PANEL NOTES:

GENERAL NOTE:
CONTRACTOR SHALL CONTACT UTILITY COMPANY AT START OF PROJECT FOR SERVICE AND METERING REQUIREMENTS.



1 / E5-00 **ELEC RISER DIAGRAM AND SCHEDULES**
12" = 1'-0"

LEGEND

NEW EQUIPMENT
EQUIPMENT TO REMAIN

FEEDER SCHEDULE

BASED ON NEC TABLE 310-16 FOR TYPE THWN COPPER CONDUCTORS

FEEDER MARK	AMPERE RATING	FEEDER (1 PHASE, 3 WIRE)	CONDUIT NO.- SIZE
200A-SE	200	3 #3/0	2"
200A	200	3 #3/0 & 1 #6 EG	2"

SURGE PROTECTION LEGEND

PANEL TYPE	SURGE PROTECTION MFR. MODEL NO.
MDP SERVICE ENTRANCE	PQ PROTECTION MODEL PQS300
BRANCH / SUB PANELS	PQ PROTECTION MODEL PQM100

KEYED NOTES

1. UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE SERVICE REQUIREMENTS WITH THE UTILITY COMPANY.
2. UTILITY COMPANY METER COORDINATE INSTALLATION REQUIREMENTS.
3. LIGHTING CONTROL PANEL EQUIVALENT TO TORK ELC712 PROGRAMMABLE TIMECLOCK CONTROL RELAY PANEL. COORDINATE HOURS OF OPERATION WITH THE OWNER TO SET SET TIME CLOCK SCHEDULE. NEMA 4X ENCLOSURE.
4. EXTERIOR/SITE LIGHTING TO BE CONTROLLED VIA PHOTOCELL "ON" / TIMECLOCK "OFF".
5. CONTRACTOR SHALL COORDINATE EXACT SERVICE LOCATION AND REQUIREMENTS WITH UTILITY. PROVIDE TRENCHING, BACKFILL, HANDHOLE, CONDUIT AND SECONDARY CONDUCTORS.
6. PROVIDE STEEL CHANNEL SUPPORT RACK FOR ELECTRICAL EQUIPMENT AS REQUIRED. POSTS MUST BE SPACED TO PROVIDE STABLE MOUNTING FOR EQUIPMENT. RACK CROSS-MEMBERS MUST BE WEATHERPROOF STEEL TO PROVIDE STABLE MOUNTING OF THE ELECTRICAL ENCLOSURES. USE CHANNEL SUPPORT SYSTEM FOR ALL RACK MOUNTED EQUIPMENT INCLUDING ALL FREE STANDING RACK MOUNTED EQUIPMENT. EXTERIOR RACK SUPPORT SYSTEM TO BE STAINLESS STEEL CHANNEL. EXTERIOR UNITS SHALL BE THOROUGHLY INSPECTED AFTER INSTALLATION. APPLY BITUMINOUS COATING TO EMBEDDED PORTION OF GALVANIZED STEEL CHANNEL PRIOR TO PLACEMENT.
7. PROVIDE 120V DUPLEX GFCI RECEPTACLE IN WEATHERPROOF BOX.
8. SURGE PROTECTION DEVICE. SEE DETAIL FOR INSTALLATION REQUIREMENTS.

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RISER DIAGRAM - ELECTRICAL

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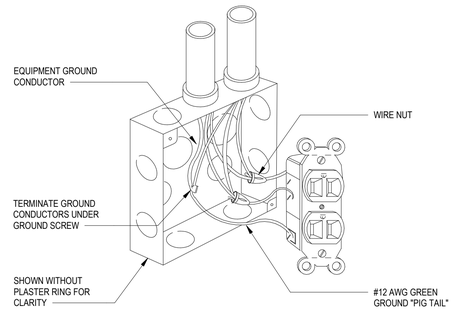
E5-00

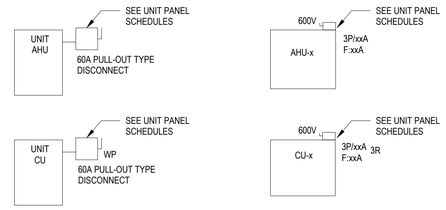
SHEET OF



GENERAL NOTES

1. DUPLEX RECEPTACLE SHOWN, SIMILAR FOR ALL WIRING DEVICES.

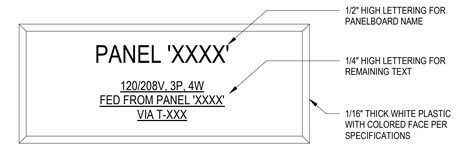
WIRING DEVICE GROUNDING — NTS — 5



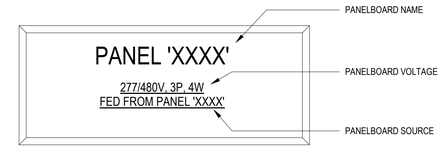
GENERAL NOTES

1. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
2. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
3. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR (SEE NOTE 2).
4. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATIONS (I.E.: UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
5. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE, DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
6. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

HVAC / MECHANICAL EQUIPMENT POWER CONNECTION — NTS — 3

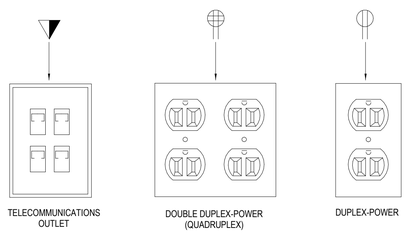


TYPICAL 120/208V PANELBOARD

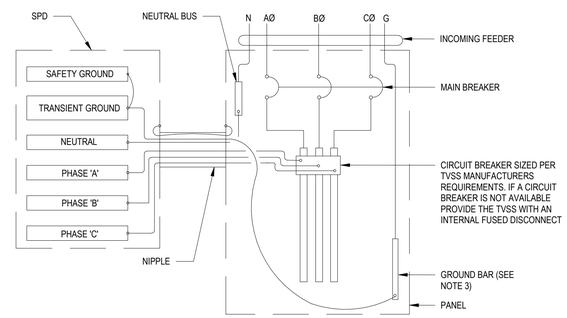


TYPICAL 277/480V PANELBOARD

PANELBOARD NAMEPLATE — NTS — 1



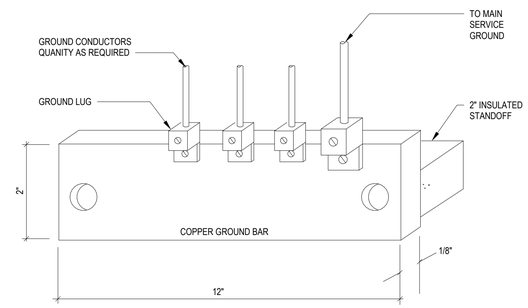
OUTLET BOXES — NTS — 6



GENERAL NOTES

1. ALL WIRING SHALL BE PER TVSS MANUFACTURER'S REQUIREMENTS.
2. WIRE LENGTH SHOULD BE AS SHORT AND STRAIGHT AS POSSIBLE WITH TVSS DEVICE LOCATED ADJACENT TO ITS BREAKER. NEUTRAL BUS SIDE.
3. PROVIDE CONNECTION TO ISOLATED GROUND BAR IF AVAILABLE.

SPD WIRING — NTS — 4



COMMUNICATIONS GROUND BAR — NTS — 2

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GRAPHIC SCALE
NORTH

SHEET TITLE
DETAILS - ELECTRICAL

SHEET NUMBER
E9-01

SHEET OF

CITY OF MOUNT DORA

Leisure Services
900 N. Donnelly St.
Mount Dora, FL 32757
352-735-7183
Fax: 352-735-3681
E-mail: parksandrec@cityofmountdora.com

DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: Approval of 60% Design and Construction for the Canoe and Kayak Launch at Palm Island Park

---

Introduction:
This is an opportunity for Board members to offer feedback on the 60% construction documents for the Canoe and Kayak Launch project at Palm Island Park.

Discussion:
According to the Parks and Recreation Master Plan, core goals for the Mount Dora waterfront include providing meaningful public access, creating a major destination that serves as the anchor for a variety of activities, and promoting environmental sustainability. More specifically, the Master Plan identified the creation of a canoe and kayak launch at Palm Island Park as essential. A modern, ADA-compliant canoe and kayak launch is not currently available at this or any other waterfront City park.

The proposed launch will be an access point to the Lake County Blueway System, a route used by thousands of Florida residents and visitors each year. This particular "trail" guides paddlers through scenic waterways with physical and geo-positioned markers, and is suitable for casual and novice users who are eager to explore the area. The launch can also be used for active recreational programs such as specialty youth summer camps.

Last February, City staff presented to Board members the opportunity to accept a $240,000 RTP grant for the project. Discussion ensued regarding parking availability near the proposed amenity, and the Advisory Board voted 4-3 against accepting the grant. However, on April 6, 2021, City Council voted to receive the award and the grant will be applied to the project with a $60,000 match from the City.

Construction documents for the project are now at 60% and, along with a cost estimate, are being presented for Board members' review.

Budget Impact:
The City budgeted $300,000 for this project throughout the 20/21 and 21/22 fiscal year. $240,000 of this amount is funded by the RTP grant.

Strategic Impact:
This project meets several elements of the City's Strategic Plan- Objective 1.4: Promote tourism by enhancing Mount Dora as a destination, and Objective 2.3: Develop a parks and recreation system guided by the principles of the Parks and Recreation Master Plan, and especially Objective 2.3.1: Enhance connectivity and accessibility.

Recommendation Board members provide feedback on the construction documents.

Attachment(s):
1. 2021-11-03 Revised Palm Island GMP Proposal 221167 Palm Island Kayak Launch and Pavilion GMP_rev1

Prepared by: Jeanann Hand, Administrative Coordinatior
Reviewed by: Amy Jewell, Leisure Services Director Final Approval - 11/10/2021

FADEN BUILDERS, INC

11/3/2021 Project No. 221167

Chet Cramer
Construction Project Manager
City of Mount Dora
510 N Baker Street
Mount Dora, Florida 32757

RE: Palm Island Kayak and Canoe Launch

Exhibit A: Scope of Work

1. General Conditions
    a. Project Management and Supervision
    b. Permitting
    c. Mobilization/Demobilization
2. Site/Prep
    a. Survey and layout
    b. Erosion Control
    c. As-builts
3. Demolition
    a. Remove one existing pavilion structure
    b. Remove concrete sidewalks
4. New Construction
    a. Provide and install 16' x 26' aluminum floating dock with two kayak/canoe launches - one to be wheelchair accessible with transfer steps and railing.
    b. 4' wide hinged aluminum gangway to transition from a fixed pier dock to the floating kayak launch.
    c. 5'-4" x 24'-0" fixed pier wood dock with composite deck boards and PT 2x railings on each side (top and mid rail).
    d. 8' wide x 180' long x 4" concrete sidewalk to extend from the designated kayak parking spots to the kayak launch and passing through the pavilion.
    e. Two designated kayak parking spots with load/unload zone on pervious geopaver grid system.
    f. 20' x 20' pre-engineered metal pavilion structure with 4" concrete pad.
    g. Electrical for lighting under the pavilion. Assumes that the existing panel has the available capacity for the additional circuit and it is located within 120' of the structure as noted on the plan.
    h. Plumbing for hose bibb at the pavilion. Assumes that the tie-in connection is available within 50' at the nearby spigot noted on the plan.

Qualifications and Exclusions:

1. Work to be completed 1st shift, M-F, no overtime is included.
2. The scope is limited to the items listed in Exhibit A. Any other added scope items or items required by the AHJ for permitting are excluded and will be charged as a change order.
3. Site lighting is excluded.
4. Geotechnical reports are excluded.
5. Dewatering is excluded.
6. Landscaping and irrigation are excluded.
7. Painting and staining are excluded.
8. Civil engineering (utility design, water/storm retention, etc.) is excluded.
9. An allowance of $4,000.00 is included for permitting with the City of Mount Dora.
10. This proposal is valid for 45 days due to the potential for unexpected material price increases.

State Cert# CGC 060972
Mailing Address: 1194 Camp Ave. Mount Dora, FL 32757
Offices: 3390 E. Vista Blvd Lake Buena Vista , FL 32830 • 1194 Camp Ave, Mt Dora FL 32757
Phone: 352-735-9805 • Fax: 352-735-9806
www.FadenBuildersinc.com

Exhibit B: Price/GMP Breakdown

1.	General Conditions	$ 11,713.00
2.	Site/Prep	$ 4,090.00
3.	Demolition	$ 8,069.14
4.	New Construction	$ 132,664.50

Subtotal	$ 156,536.64
Mark-up 12%	$ 18,784.40
Project Team	$ 22,640.00
Bond	$ 4,132.00
Contingency (10%)	$ 17,917.66
Gross Maximum Price (GMP):	**$ 220,010.70**

Pavilion Structure Add Alternate (excluding bond amount): $ 69,952.00 / each

20' x 20' pre-engineered metal pavilion structure with 4" concrete pad and lighting (assumes there is electrical panel with capacity within 120' max). Scope includes additional permitting ($1,200.00 allowance), demo of existing pavilion, site prep, concrete footings, pavilion materials, pavilion erection, electrical for lighting ($3,000.00 allowance), 4" concrete pad and connection to existing concrete sidewalk.

An additional 25 workdays will be added to the duration schedule for each additional pavilion.

Exhibit C: Basic Schedule

Procurement will begin promptly after the issuance of the Purchase Order.
Proposed duration schedule:

45 days for submittals, permitting and material procurement
10 workdays for mobilization, erosion control and demolition
10 workdays for dock installation
10 workdays for pavilion structure foundation and erection
10 workdays for concrete sidewalks
5 workdays for final grading and sod
5 workdays for demobilization

Project Management Information System (PMIS) will not be required for this project.

Exhibit D: Construction Team

Owner's Representative: Chet Cramer (City of Mount Dora)
Construction Manager: Todd Faden (Faden Builders)

Exhibit E: Construction Manager's Staff

Principal: Todd Faden
Project Manager: Philip Rapalje
Project Engineer: Erika White
Site Superintendent: Rob Bennett
Staff Accountant: Helen Johnson
Safety Director: Jes Pedersen
Administrative Assistant: Laura Faden

Exhibit F: Sub-Contractors

N/A

Please feel free to contact me with any questions. We look forward to working with you.

Best regards,

PHILIP RAPALJE

Philip Rapalje
Faden Builders, Inc.

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CITY OF MOUNT DORA

Leisure Services
900 N. Donnelly St.
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352-735-7183
Fax: 352-735-3681
E-mail: parksandrec@cityofmountdora.com

DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: Resolution No. 2021-123, City Facility Naming Policy

---

Introduction:
This is an opportunity for Board members to view a recently adopted City policy for the naming of parks and recreational facilities.

Discussion:
The purpose of this policy is the establishment of guidelines for the selection of names for City facilities.

The act of naming a facility is significant and meaningful, impacting public awareness and City identity. It is usually meant to be a permanent act, and therefore should be approached in a thoughtful manner.

During a City Council discussion in February 2020, it was asserted that a clear facility naming policy should be in place in the event of a request to name a City facility in honor of a citizen who has contributed to the City in some special way. The naming of City facilities was originally addressed in a policy combining guidelines for the naming of both City streets and City facilities. However, facilities sometimes provide unique naming opportunities to commemorate individuals who, through their contributions, have helped to provide a worthy and enduring legacy for the City.

In order for the City's facility naming decisions to be fair and transparent, the attached policy was presented to City Council and approved by them on November 2, 2021.

Budget Impact:
There is no budget impact for this item.

Strategic Impact:

This policy accomplishes Objective 1.4 of Goal 1 of the City's Strategic Plan: Economic Development-Developing a standard brand image, and offers opportunity to satisfy Objective 3.1 of Goal 3: Fiscal Resources-Seek to create public and private partnerships to conserve government funds and resources for priority projects.

Recommendation

Board members view and take note of the attached policy.

Attachment(s):

1. Executed Reso. No. 2021-123 City Facility Naming Policy
2. Exhibit A Naming City Parks and Recreational Facilities.SGS_ADA

Prepared by:	Jeanann Hand, Administrative Coordinatior	
Reviewed by:	Troy Shonk, Leisure Services Administrator	Approved - 11/10/2021
	Amy Jewell, Leisure Services Director	Final Approval - 11/10/2021

RESOLUTION NO. 2021-123

A RESOLUTION OF THE CITY OF MOUNT DORA, FLORIDA PERTAINING TO CITY FACILITY NAMING POLICY; PROVIDING FOR LEGISLATIVE FINDINGS AND INTENT; PROVIDING FOR REPEAL OF PRIOR POLICY; PROVIDING FOR ADOPTION OF THE POLICY; PROVIDING FOR THE IMPLEMENTATION OF ADMINISTRATIVE ACTIONS; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR SCRIVENER'S ERRORS; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Mount Dora adopts and maintains various policies in the best interest of its citizens and visitors; and

WHEREAS, from time to time, it is necessary for the City to amend, revise and/or restate certain of its policies in order to better express the vision of the City and accommodate the operations thereof; and

WHEREAS, the City has determined that it is in its best interest to adopt a City Facility Naming Policy.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF MOUNT DORA, FLORIDA, AS FOLLOWS:

SECTION 1. Legislative Findings and Intent. The City of Mount Dora has complied with all requirements and procedures of Florida law in processing this Resolution. The above recitals are hereby adopted.

SECTION 2. Repeal of Prior Policy. The Naming or Renaming of City Streets and Facilities Policy adopted under City of Mount Dora Resolution 2018-35, on April 3, 2018, which was executed by the City Manager on June 26, 2018, is hereby repealed.

SECTION 3. Adoption of Policy. The City of Mount Dora hereby adopts the City Facility Naming Policy attached hereto as **Exhibit "A"**.

SECTION 4. Implementing Administrative Actions. The City Manager is hereby authorized and directed to take such action as may be deemed necessary and appropriate in order to implement the provisions of this Resolution. The City Manager may, as deemed appropriate, necessary and convenient, delegate the powers of implementation as herein set forth to such City employees as deemed effectual and prudent.

SECTION 5. Savings Clause. All prior actions of the City of Mount Dora pertaining to the City Facility Naming Policy, as well as any and all matters relating thereto, are hereby ratified and affirmed consistent with the provisions of this Resolution.

SECTION 6. Scrivener's Errors. Typographical errors and other matters of a similar nature that do not affect the intent of this Resolution, as determined by the City Clerk and City Attorney, may be corrected.

SECTION 7. Conflicts. All Resolutions or parts of Resolutions in conflict with any of the provisions of this Resolution are hereby repealed.

SECTION 8. Severability. If any Section or portion of a Section of this Resolution proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other Section or part of this Resolution.

SECTION 9. Effective Date. This Resolution shall become effective immediately upon its passage and adoption.

PASSED AND ADOPTED this 2nd day of November, 2021.

CATHERINE T. HOECHST
MAYOR of the City of Mount Dora, Florida

ATTEST:

Jessica Burnham, City Clerk

For the use and reliance of City of Mount Dora only.
Approved as to form and legality.

Sherry G. Sutphen City Attorney

EXHIBIT "A"
City Facility Naming Policy

CITY OF MOUNT DORA

POLICY AND PROCEDURES MANUAL

Section:

Subject: Naming of City Facilities

Responsible Dept.: City Manager Division Approval: _____	Approved:_____ Date:_____

Naming City Facilities

Purpose
To establish a policy for the selection of names or for the renaming of City parks, natural areas, recreational facilities, and Trails (singly referred to by name or collectively referred to as "City Facilities").

Scope
This policy shall apply to all requests to name a City park, natural area, recreational facility, or trail.

Policy
It is the policy of the City of Mount Dora that the naming of parks, natural areas, recreational facilities and/or trails will best serve the interests of the City and reflect the significance of a feature and the community it serves, while also providing a worthy and enduring legacy for the City.

Definitions
(appear throughout this policy without capitalization and have the meanings set forth herein)

- *Naming* is the permanent name assigned by the City of Mount Dora to a given park, natural area, recreational facility, or trail.
- *Park* is open space owned or managed by the City of Mount Dora for active or passive recreation and/or aesthetic values. This includes all traditionally designed parks, gardens, and specialized parks under the stewardship of the City of Mount Dora Parks and Recreation Department.
- *Natural Area* is open space owned or managed by the City of Mount Dora for a mix of natural resource and passive recreation values. These properties generally have limited development except for those improvements needed to allow users to access these natural resources.
- *Recreational Facility* is a major structure such as a community center, swimming pool, or fountain located within lands under the stewardship of City of Mount Dora.
- *Trail* is a path in a park, neighborhood or contained within a natural area or other traversable feature. This does not include regional trails which are generally named by the cooperative entities within the region that are connected through the trail.

Naming Prohibitions

1. Names that are currently in use will not be considered.
2. Names that are discriminatory or derogatory will not be considered
3. Company names, Corporate logos, insignias, brands, or direct advertising text shall not be used.

Significant or Historical People

City Facilities may be named in honor of an individual. In such an event, the name given to the City Facility shall be the name of the honoree. The honoree must have a significant tie to the City of Mount Dora. The person should have made a significant contribution to the history, progress, development, or culture of Mount Dora during his or her lifetime. The person must be deceased for at least six (6) months and must have been a resident of the City of Mount Dora at the time the significant contributions were made. Ideally, the person should be directly associated in some way with the City Facility which is be named in their honor.

Major Gifts

Over the years, the City of Mount Dora has benefitted from the generosity of residents, businesses, and foundations. On occasion, the significance of such donations may warrant that consideration be given to requests from either the donor or another party to acknowledge such a gift through naming the City Facility after the donor.

A significant donation made to the City of Mount Dora that adds considerable value to the City of Mount Dora may be recognized through naming.

The donation threshold for considering the naming rights of a City Facility include one or more of the following:

A. Land for the majority of the City Facility was donated to the City in fee simple, free and clear of any unacceptable encumbrances.
B. Contribution of a minimum of 60% of the capital construction costs associated with developing the City Facility.
C. Provision of a minimum 20-year endowment for the continued maintenance, operation and/or programming of a City Facility.

Donors seeking to name a City Facility in honor of an individual must follow the policy established herein related to individual honorees.

Naming Requests

All requests for the naming of City Facilities shall be forwarded to the City Manager's office. The City Manager will ensure the request is in compliance with this policy and place the request on the agenda for final approval by the City Council. The City Council, in its sole discretion, reserves the right to make exceptions to the requirements set forth in this Policy. The decision of the City Council regarding the naming of a City Facility shall be final, subject only to change by further City Council action.

CITY OF MOUNT DORA	POLICY AND PROCEDURES MANUAL	Section: Subject: Naming of City Facilities

Responsible Dept.: City Manager Division Approval: _____	Approved:_____ Date:_____

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CITY OF MOUNT DORA

Leisure Services
900 N. Donnelly St.
Mount Dora, FL 32757
352-735-7183
Fax: 352-735-3681
E-mail: parksandrec@cityofmountdora.com

DATE: **November 15, 2021**

TO: **Parks and Recreation Advisory Board Members**

FROM: **Amy Jewell, Leisure Services Director**

SUBJECT: Cultural and Special Events Update

Introduction:
This is an opportunity for City staff to present a regular Cultural and Special Events update.

Discussion:
Cultural and Special Events Manager Chris Carson will inform Board members about upcoming holiday events. An attached events listing includes City-sponsored events and non-City events which have been submitted to our City calendar.

Budget Impact:
N/A

Strategic Impact:
N/A

Recommendation N/A

Attachment(s):
1. 2021-11-10 2021 Holiday Special Events

Prepared by:	Jeanann Hand, Administrative Coordinatior	
Reviewed by:	carsonc carsonc, Special Events Coordinator	Approved - 11/10/2021
	Troy Shonk, Leisure Services Administrator	Approved - 11/10/2021
	Amy Jewell, Leisure Services Director	Final Approval - 11/10/2021

CITY OF MOUNT DORA

Special Events

Nov. 13, 11AM	All the Hype Craft Beer Festival (Evans Park)-Serendipity Brews
Nov. 13, 5PM	Plaid in the Park (Sunset Park)-Mount Dora Sister Cities
Nov. 13-14	Plant & Garden Fair (Downtown)-Visit Mount Dora
Dec. 3, 6PM	Merry Mount Dora, A Celebration of Lights (Downtown)-Chamber of Commerce
Dec. 4, 10AM	Christmas Parade (Downtown)-Lions Club
Dec. 4, 7PM	Lighted Boat Parade (Lakefront/Marina)-Rusty Anchor
Dec. 11, 3-7PM	Snow in the Park (Donnelly Park)-City of Mount Dora
Dec. 11, 5PM	Holiday Plaid in the Park (Sunset Park)-Mount Dora Sister Cities
Dec. 18-19, 7AM	Mount Dora Half Marathon & 5K Runs (Downtown)-Mount Dora Road Runners
Dec. 31, 9PM	New Year's Eve Celebration (Sunset Park)-City of Mount Dora

Listed events are subject to last minute cancellations and changes which might not be reflected on this page.