



## **APOPKA DEVELOPMENT REVIEW COMMITTEE AGENDA**

**May 13, 2026 9:00 AM**

**Apopka City Hall Commission Chambers**

### **PUBLIC COMMENT PERIOD**

### **SPECIAL EVENTS**

1. **E-26-2 - Fathers Day: Best of the World - All In Management & More LLC - Apopka Amphitheater 3710 Jason Dwelley Parkway - June 21, 2026 3:00pm-10:00pm**  
Owner(s): All In Management & More LLC  
Applicant(s): Jenay Davis  
Location: Apopka Amphitheater - 3710 Jason Dwelley Parkway  
Proposed Use: Concert/Performance  
Project Manager: Carolyn Ray

### **SITE PLAN:**

### **CONSTRUCTION SITE PLAN**

1. **CSP-26-17 - Pave A Lot Asphalt Maintenance Inc - Construction Site Plan (CSP), 1st Submittal**  
Owner(s): Pave A Lot Asphalt Maintenance Inc  
Applicant(s): Sunstate Plans LLC - Juan Rivera  
Location: 951 South Highland Avenue  
Proposed Use: Site storage including grading, drainage and ground cover  
Project Manager: Amer Hamza
2. **CSP-26-19 - Gospel Church Expansion - Construction Site Plan (CSP), 1st Submittal**  
Owner(s): Go Ministry Corporation Inc  
Applicant(s): Marci Chandler  
Location: 4490 Rock Springs Road  
Proposed Use: Addition of 9,600 SF building  
Project Manager: Jean Sanchez

### **DISCUSSION**

### **ADJOURNMENT**

Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least two (2) working days in advance of the meeting date and time at (407) 703-1704. F.S. 286.0105 If a person decides to appeal any decision or recommendation made by Council with respect to any matter considered at this meeting, he will need record of the proceedings, and that for such purposes he 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.

Any opening invocation that is offered before the official start of the Council meeting shall be the voluntary offering of a private person, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views

of such speaker. Persons in attendance at the City Council meeting are invited to stand during the opening ceremony. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Council Chambers or exit the City Council Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance.



**Record No: E-26-2**

Apopka Special Event Permit

Status: Active

Submitted On: 4/23/2026

**Primary Location**

No location

**Owner**

No owner information

**Special Event Permit Application**

Visit City of Apopka Events Page to learn more about what is happening in the City.

**Name of the Event\***

FATHER'S DAY: BEST OF THE WORLD

**Event Date\***

06/21/2026

**Event Time\*** 

3:00 PM - 8:00 PM

**Type of Event\***

Concert performance

**Facility or Location\***

Apopka Amphitheater

**Additional event details\***

Father's Day Concert is a community-focused entertainment event celebrating fathers, family and positive social engagement through music and live performances. This is a 25 and up event, creating a mature and upscale atmosphere for attendees. This event will feature live DJs and performance by guest artis, with music including R&B and hip-hop. Guest will enjoy a vibrant environment with dancing, socializing and food and beverage service. All activities will be professionally managed, with staff assigned for check-in, security, and crowd control to ensure a safe, organized, and enjoyable experience for all attendee. The goal is to provide a memorable Father's Day celebration while supporting talent and delivering a high quality entertainment experience.

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**Event Applicant**

A completed Special Event Permit application is required for all events with the City of Apopka. All events will be reviewed by our Development Review Committee for approval. The City of Apopka has the exclusive right to permit or deny an individual or organization facility use.

Once we have the complete special event application we will schedule for review and approval. Please note this may take time, as we suggest that all applications submitted at least 60 days prior to the event. Incomplete applications will not be reviewed.

**Organization Name\***

All In Management & More LLC

**Organization Address\***

2026 Blackston Ave Sanford FL 32771

**Event Contact Person\***

Jenay Davis

**Contact Person's Email\***

[REDACTED]

**Contact Person's Phone\***

[REDACTED]

**Is your organization a Non-Profit (501 c3) or Tax Exempt Organization?\***



No

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## Dates & Times

**Event Start Date\***

06/21/2026

**Event End Date\***

06/21/2026

**Is your event multiple days?\***

No

**Event Time\***

3:00 PM

**Load in date**

06/21/2026

**Load in Time ?**

8:00 am

**Load out Date**

06/21/2026

**Load out time\* ?**

12 am

**Expected Attendance\***

2000

## Event Details

**Does your event include food concession? Please list the food concessionaire\***

Various Food Trucks

**Will there be food food trucks?\***

Yes

**Will you be bringing in portable toilets? ?**

—

Event Cleanup Plan: Promoters are responsible for cleaning up the site area and surrounding areas. Trash cans will be available for use. Large events (over 1,000 people) will require a cleaning company company onsite for their event.

**Please provide the name of the cleaning company and how many staff will be on site for the duration of your event.**

All In Management and More LLC will assign approximately 8–12 staff members for cleanup. Trash bags, liners, and cleaning supplies will be provided onsite at all times. Approximately 30–40 trash receptacles will be placed throughout the venue, including entrances, bar areas, VIP sections, vendor areas, and restrooms. All collected trash will be bagged and consolidated in designated waste collection areas approved by the venue. During the event, staff will continuously monitor and empty trash to prevent overflow and maintain cleanliness. After the event, the cleanup crew will perform a full site sweep, remove all trash, break down equipment (tents, barricades, etc.), and ensure the venue is restored to its original condition.

**Will you event include tents?**

Yes

**Please indicate the size of tents (10x20 or large require additional permits)**

(14) 10x10

**Will you be serving alcohol at your event?\***

Yes

**What is the name of the alcohol vendor?\***

OOPSIE SCOOPSIE CATERING

**Does your event require a road closure?\***

No

**Will you be hiring private security?\***

Yes

**Name of Security Company**

RAPID KARMA SECURITY LLC

**Events held at the Amphitheater/Northwest Recreation: Event parking services will be required based on the number of attendees and will be determined during event review & approval. \***



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## Acknowledgements

**INDEMNIFICATION AND HOLD HARMLESS AGREEMENT \***



**Insurance Requirements for Events ?**

**The acknowledges below indicates receipt of the Policy and Procedures for events that has been attached at the end of this document. \***



**Applicant covenants and agrees that it will indemnify and hold harmless the City and all of the City’s officer’s, agents, and employees from claim, loss, damage, costs, charge or expense arising out of any act, action, neglect or omission by applicant during the performance of the event, whether direct, or indirect, and whether to any person or property to which the City of said parties may be subject.\***



**The acknowledgement below indicates receipt of the Policy and Procedures for events that has been attached at the end of this document. \***




**Curfew Policy Acknowledgment: I understand and agree that events must end by 8:00 PM (Sun–Thu) and 10:00 PM (Fri–Sat), and that exceeding curfew may result in deposit forfeiture and/or fees (\$500 for 5–30 minutes over, \$500+ for 30+ minutes over).\***



**I acknowledge that any changes to the event layout or schedule must be approved in advance, all vehicles must be cleared and parked before gates open, no vehicle movement is allowed during event hours, unused gates will remain locked, and failure to comply may result in forfeiture of the event deposit.**



**Applicant Signature\***

 **Jenay Davis**  
Apr 23, 2026

Date\*

04/23/2026

**Insurance Requirements for Events--SPECIAL EVENT INSURANCE REQUIREMENTS** Before activity setup or any other site activity begins, the Renter/Applicant/Event Organizer/Organization must provide a Certificate of Insurance (including all required endorsements) to the City's Risk Management Division. All insurance policies must remain in effect from load-in through completion of load-out. The required limits may be satisfied through a combination of primary and excess/umbrella liability policies. Commercial General Liability Minimum limits: \$1,000,000 Each Occurrence \$2,000,000 General Aggregate Coverage must include: Premises and Operations Products and Completed Operations Contractual Liability Personal and Advertising Injury Damage to Rented Premises Sexual Abuse and Molestation Liability (if applicable) Spectator Liability (if applicable) Assault and Battery (if applicable) If alcohol is served: Liquor Liability \$1,000,000 per occurrence Host Liquor acceptable only if alcohol is served free of charge Automobile Liability Applies to owned, hired, and non-owned autos. \$300,000 Combined Single Limit (personal vehicles) \$1,000,000 Combined Single Limit (commercial vehicles, food trucks, CMVs) Workers' Compensation Statutory compliance with: \$1,000,000 Each Accident \$1,000,000 Disease – Policy Limit \$1,000,000 Disease – Each Employee Proof of exemption required if applicable. Additional Requirements All insurance policies shall: Name the City of Apopka as Additional Insured (except Workers' Compensation). Provide Waiver of Subrogation in favor of the City on all lines. Be Primary and Non-Contributory. Provide 30 days written notice of cancellation. Be issued by carriers rated A- VIII or better by A.M. Best. Include copies of all endorsement pages and form list schedules. Be subject to approval by the City. The insurance requirements set forth herein shall not be construed to limit or reduce the indemnification obligations of the Renter/Applicant/Event Organizer/Organization. Nothing herein shall be construed to extend the City's liability beyond that

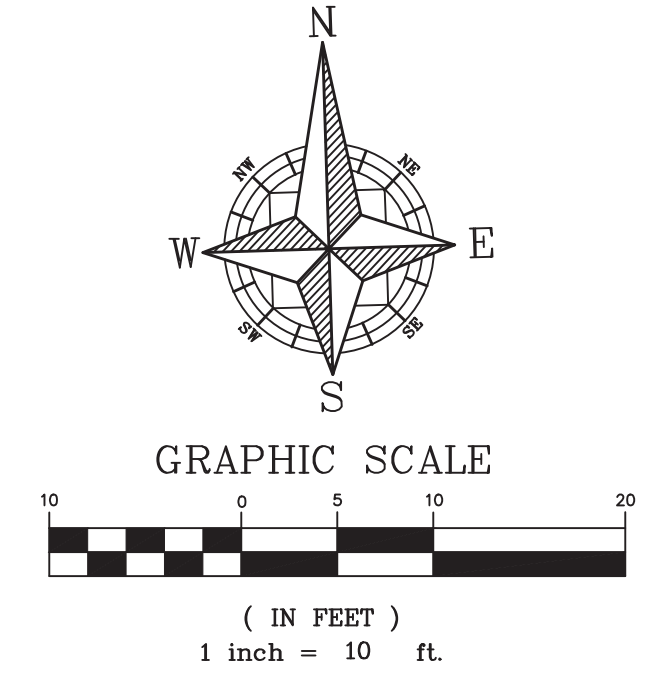
provided in §768.28, Florida Statutes. The original insurance certificates, and all requested extensions to the insurance certificate, shall be sent to: City of Apopka 120 East Main Street Apopka, Florida 32703 Renter/Applicant/Event Organizer/Organization is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by Renter/Applicant/Event Organizer/Organization as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and Renter/Applicant/Event Organizer/Organization agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self-insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by Renter/Applicant/Event Organizer/Organization, as required herein. Renter/Applicant/Event Organizer/Organization shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, event security firm(s), concert technical and/or production firm(s), and entertainers, maintain insurance meeting all of the requirements stated herein, and include the City of Apopka as an additional insured. Furthermore, the insurance policy held by the Renter/Applicant/Event Organizer/Organization shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Renter/Applicant/Event Organizer/Organization by a subcontractor. Upon written request, the Renter/Applicant/Event Organizer/Organization shall provide copies of documentation that verifies the additional insured status of the City of Apopka from these subcontractors. The Renter/Applicant/Event Organizer/Organization shall remain fully liable and responsible for the performance and compliance of all contracted work, regardless of whether the work was performed in full or in part

**by a subcontractor. The subcontracting of any part of this Agreement shall not relieve the Renter/Applicant/Event Organizer/Organization from any liability or obligation under the Agreement, and the acts, errors, or omissions of the Renter/Applicant/Event Organizer/Organization's subcontractors shall be deemed to be the acts, errors, or omissions of the Renter/Applicant/Event Organizer/Organization. The insurance requirements set forth herein shall not be construed to limit or reduce the indemnification obligations of the Renter/Applicant/Event Organizer/Organization.**





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 Juan C Rivera  
 Date: 2025.12.30  
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Revisions	

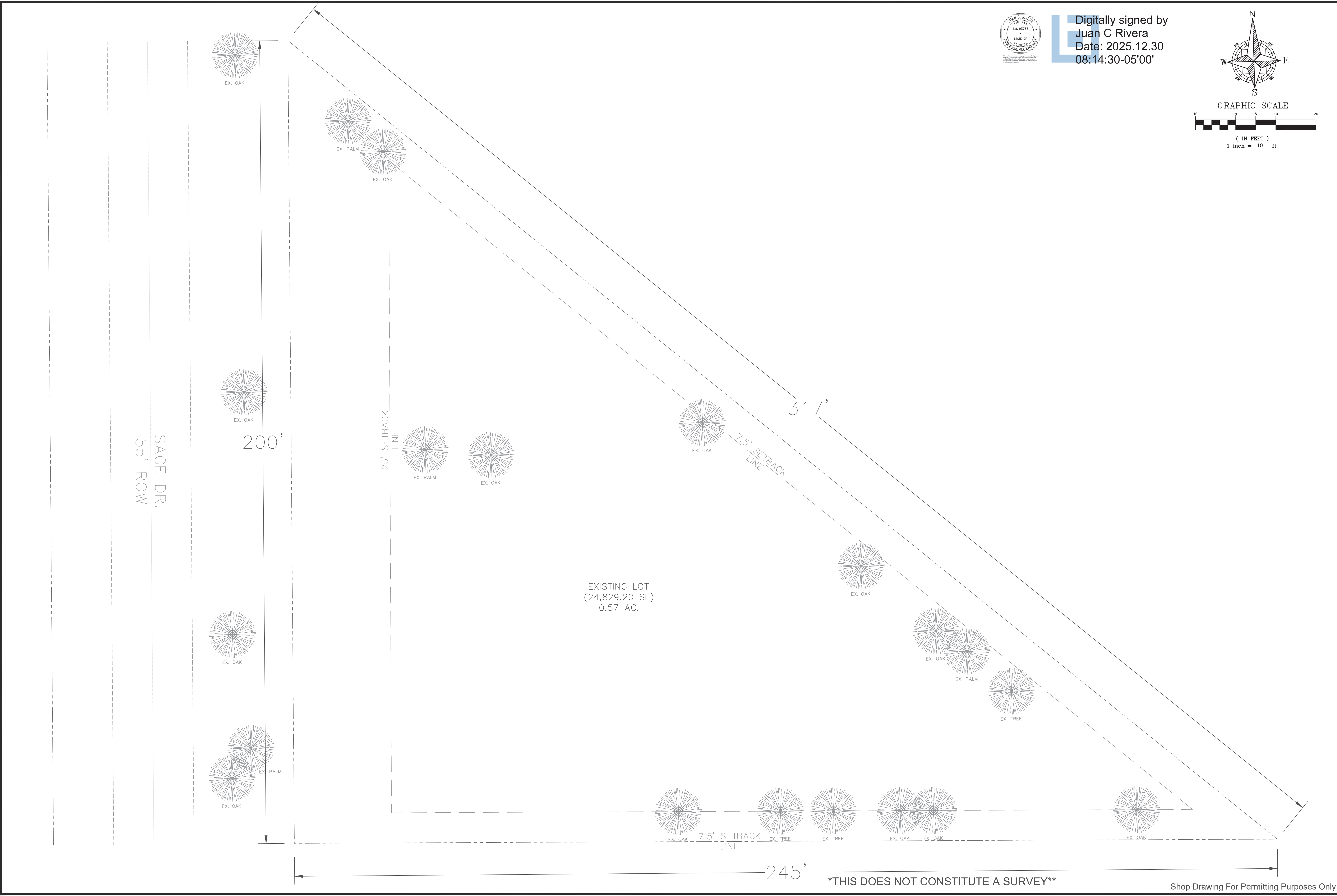
SUNSTATE PLANS LLC,  
 Licensed Engineering Firm  
 2727 Silver Star Rd, Orlando, FL 32822  
 407-902-7128  
 Sunstateplans@gmail.com

CONSTRUCTION PLANS  
 PAVE A LOT ASPHALT MAINTENANCE INC  
 951 S. HIGHLAND AVE,  
 APOPKA, FLORIDA 32703

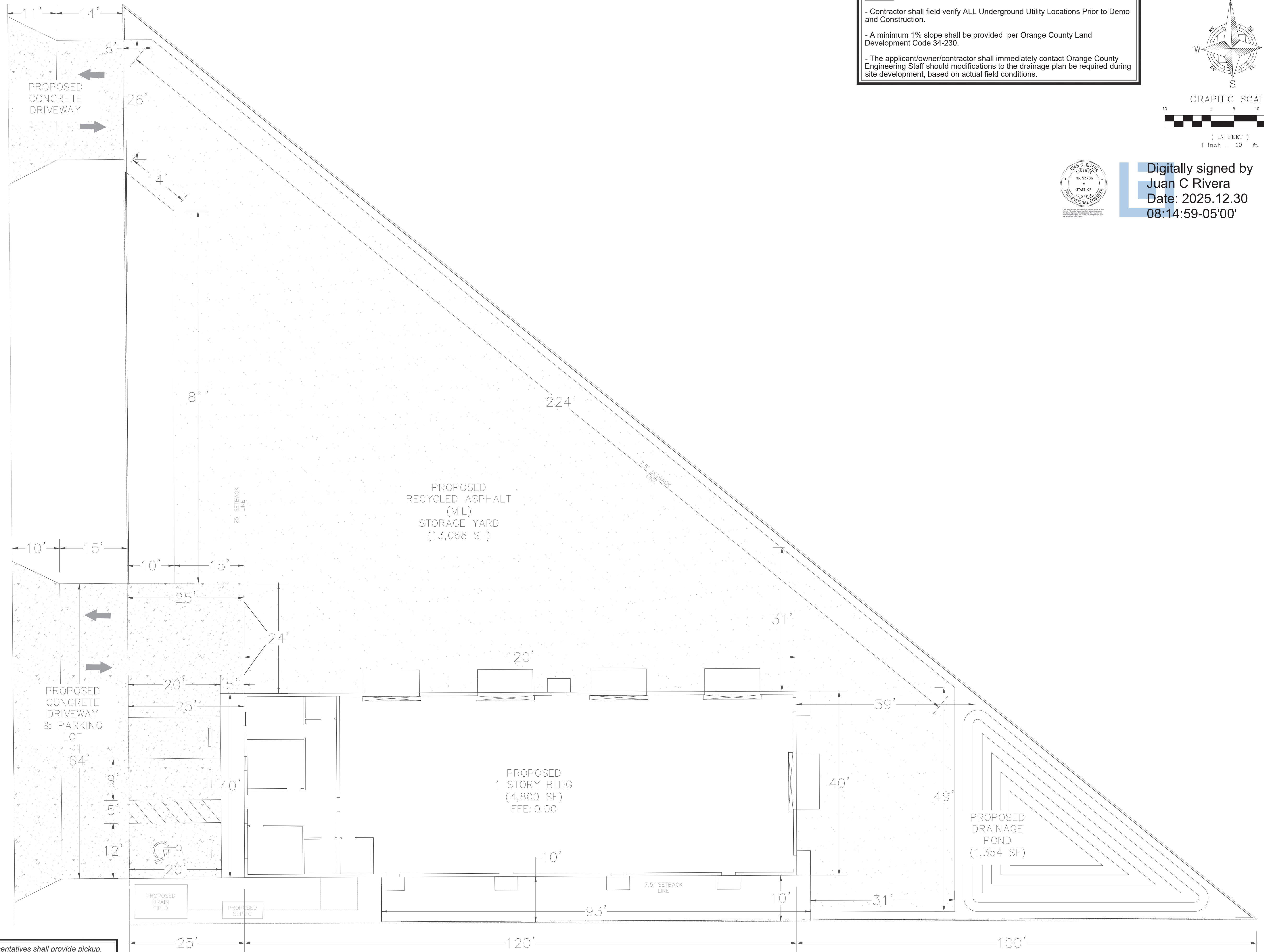
EXISTING SITE  
 PLAN

Drawn By: LP  
 Approved By: DH  
 Date: 12/23/2025

C-1.0

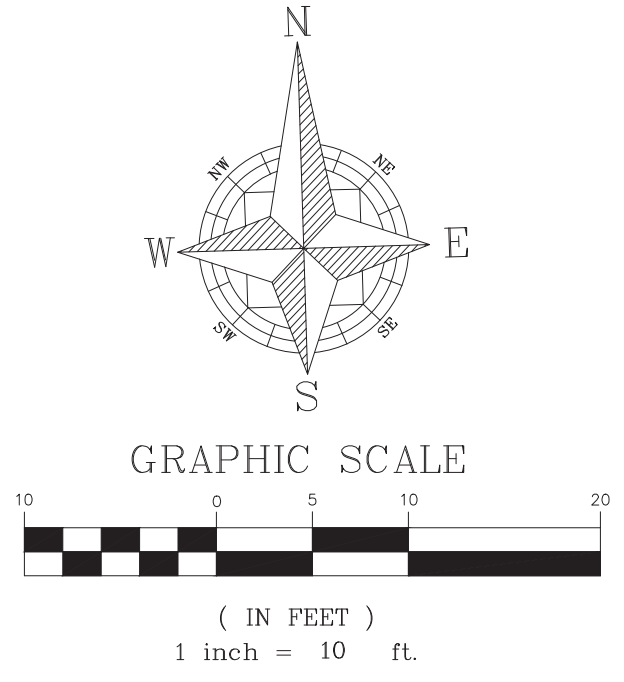


SAGE DR.  
55' ROW



**NOTES:**

- Contractor shall field verify ALL Underground Utility Locations Prior to Demo and Construction.
- A minimum 1% slope shall be provided per Orange County Land Development Code 34-230.
- The applicant/owner/contractor shall immediately contact Orange County Engineering Staff should modifications to the drainage plan be required during site development, based on actual field conditions.



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Date: 2025.12.30  
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**NOTE:** The property owner, contractor, and authorized representatives shall provide pickup, removal, and disposal of litter within the project limits and shall be responsible for maintenance of the area from the edge of pavement to the property line within the City's right-of-way in accordance with City Land Development Code, Ch 38.

Shop Drawing For Permitting Purposes Only

Revisions	
PUBLIC WORKS COMM.	6/19

SUNSTATE PLANS LLC.  
Licensed Engineering Firm  
2727 Silver Star Rd, Orlando, FL 32822  
407-902-7128  
Sunstateplans@gmail.com

CONSTRUCTION PLANS  
PAVE A LOT ASPHALT MAINTENANCE INC  
951 S. HIGHLAND AVE.  
APOPKA, FLORIDA 32703

SITE PLAN &  
DETAILS

Drawn By: LP  
Approved BY: DH  
Date: 12/23/2025

C-1.1

Revisions

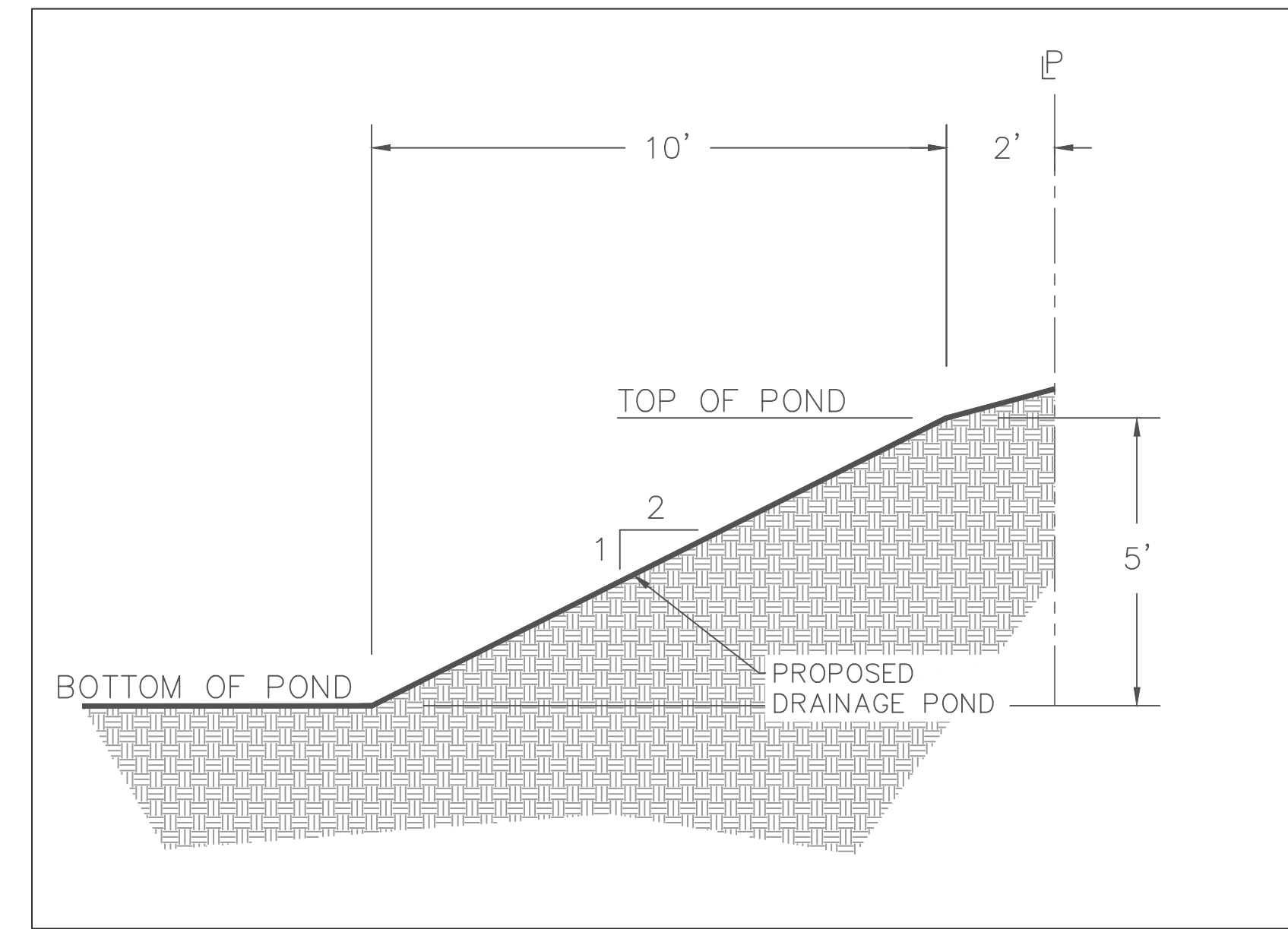
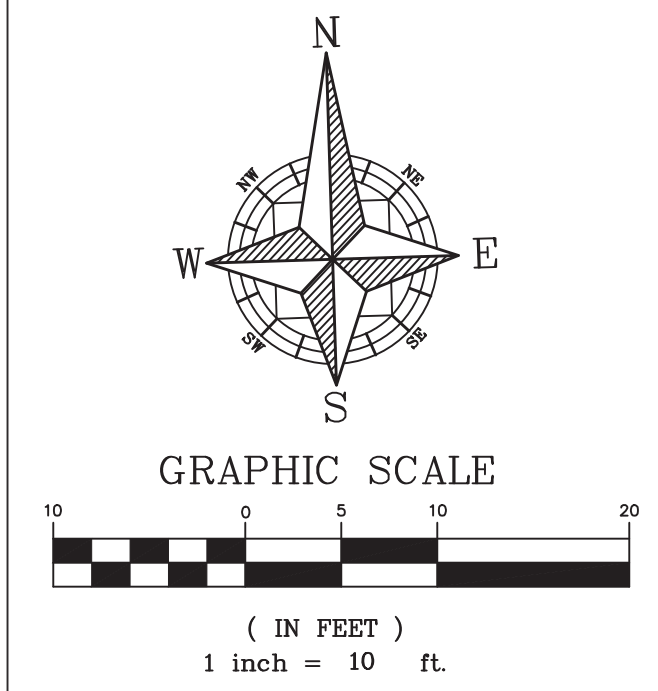

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CONSTRUCTION PLANS  
 PAVE A LOT ASPHALT MAINTENANCE INC  
 951 S. HIGHLAND AVE,  
 APOPKA, FLORIDA 32703

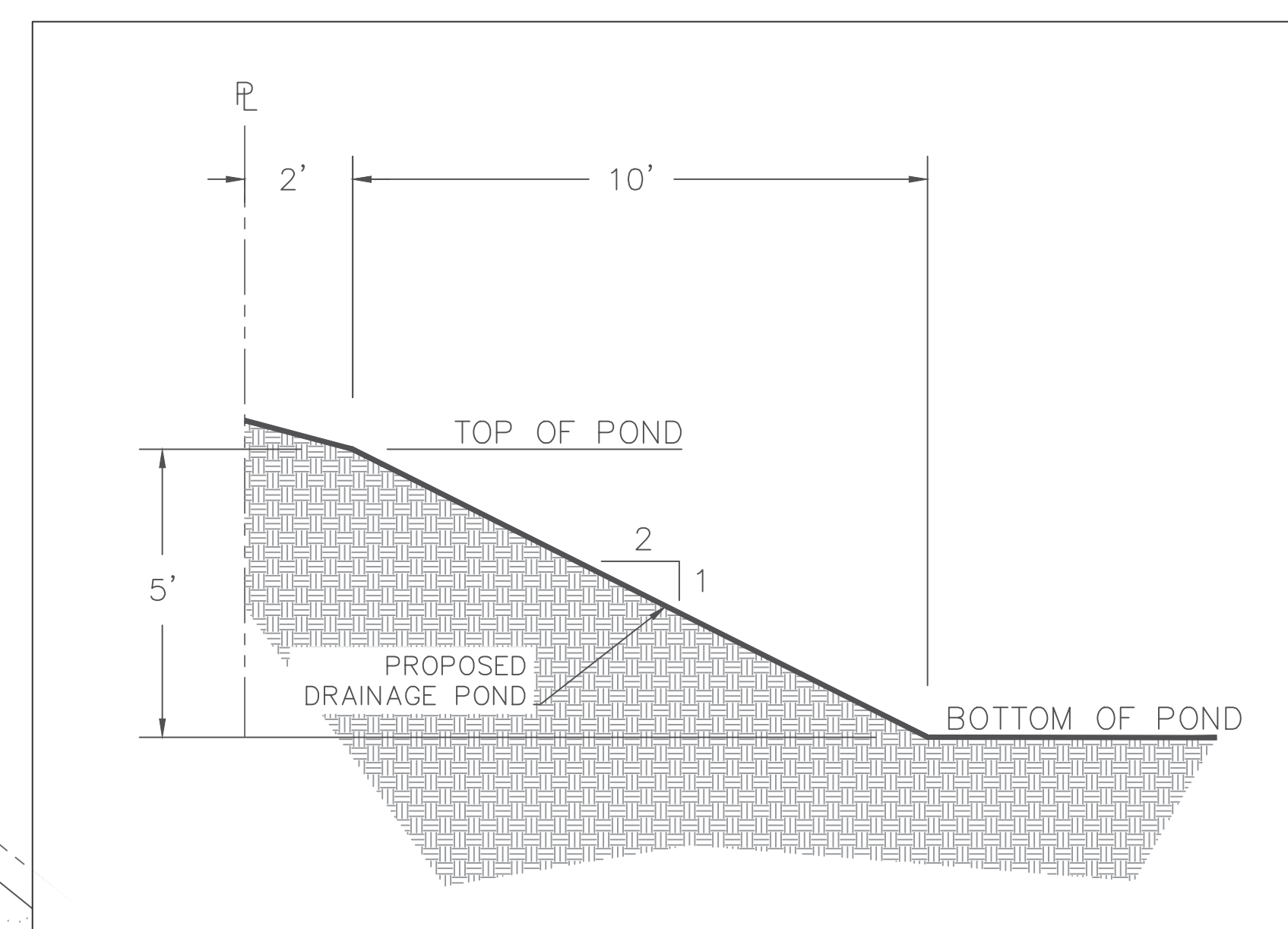
PAVING & DRAINAGE PLAN

Drawn By: LP  
 Approved By: DH  
 Date: 12/23/2025

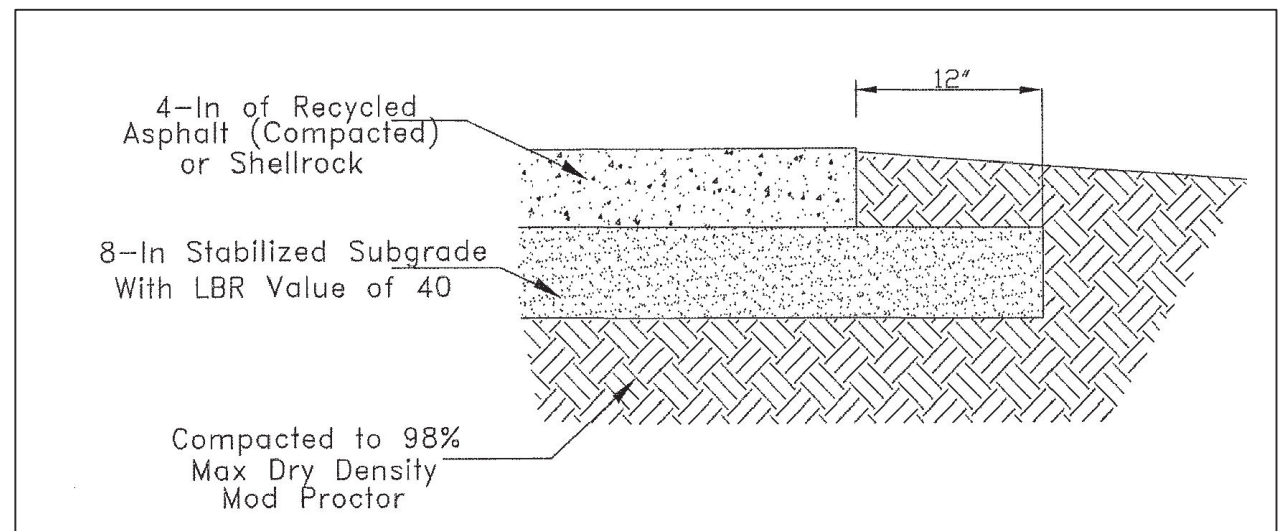
C-1.2



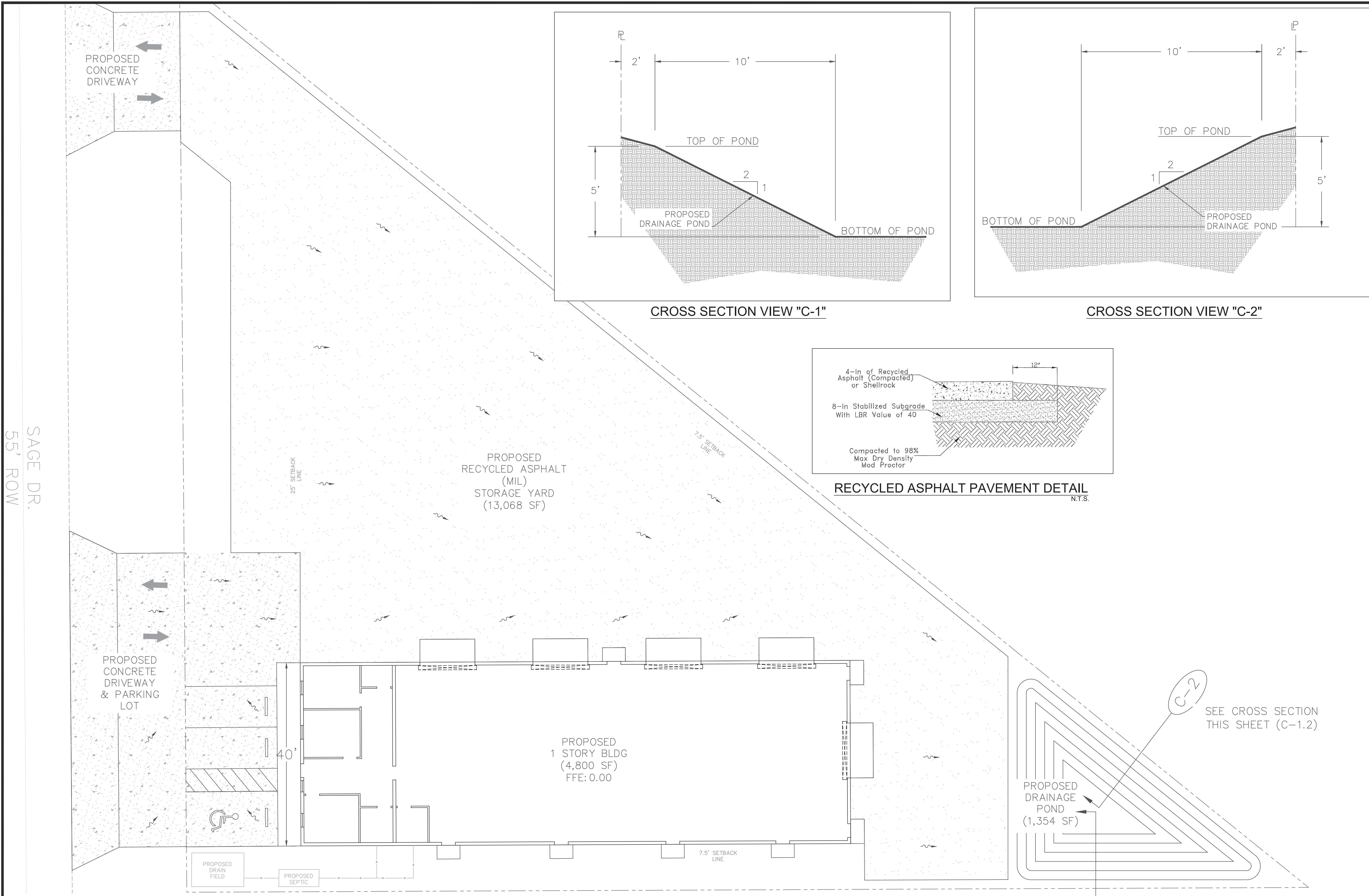
CROSS SECTION VIEW "C-2"



CROSS SECTION VIEW "C-1"



RECYCLED ASPHALT PAVEMENT DETAIL  
 N.T.S.



SEE CROSS SECTION THIS SHEET (C-1.2)

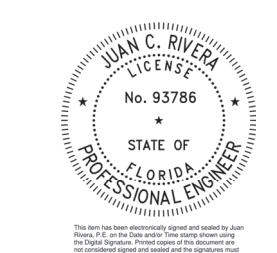
PROPOSED DRAINAGE POND (1,354 SF)

C-1

SEE CROSS SECTION THIS SHEET (C-1.1)

**FLOOD ZONE MAP:**  
 PROPERTY LIES IN F.I.R.M. ZONE X AS SHOWN ON PANEL 12095C0120H (9-24-2021).  
**DRAINAGE STATEMENT:**  
 PROPOSED STORM WATER DRAINAGE SYSTEM CONSISTS OF DETENTION AREA, CONTROL STRUCTURE AND OUTFALL PIPE. IT WILL COMPLY WITH CITY OF PORT ST. LUCIE DRAINAGE REQUIREMENTS.

**HAZARDOUS WASTE STATEMENT:**  
 ANY & ALL HAZARDOUS OR TOXIC MATERIALS GENERATED OR USED OR STORED ON SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.  
**ENVIRONMENTAL STATEMENT:**  
 PROJECT WILL MEET AND COMPLY WITH STATE AND LOCAL REQUIREMENTS & REGULATIONS REGARDING NATIVE HABITATS & VEGETATION.



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Shop Drawing For Permitting Purposes Only



**GENERAL NOTES:**

**EROSION CONTROL / SWPPP NARRATIVE**

**1. SITE DESCRIPTION**

Nature of Construction Activities  
Construction activities consist of site clearing, earthwork, and construction of a warehouse building with associated paved parking areas, driveways, and stormwater management facilities.

Sequence of Major Soil Disturbing Activities  
The following sequence of major soil disturbing activities shall be followed unless an alternate sequence is approved by the Engineer of Record and Orange County. The contractor shall provide erosion and sediment control measures in accordance with this SWPPP and shall document all activities as required.

Installation of perimeter erosion and sediment control measures.

Clearing and grubbing and earthwork for stormwater management areas.

Storm sewer construction, proceeding in an upstream direction.

Utility construction (water, wastewater, and associated infrastructure).

Roadway construction including subgrade, base, and pavement.

Final grading, stabilization, sodding, seeding, and landscaping.

Placement of Erosion and Sediment Control Devices  
All erosion and sediment control devices shall be installed prior to commencement of land-disturbing activities and maintained throughout construction.

**2. AREA ESTIMATES**

Total Site Area: 0.57 Acres  
Total Area to Be Disturbed: 0.57 Acres

**3. RUNOFF DATA**

Runoff Coefficient: 0.68

**4. SOIL DATA**

Soils on site consist primarily of Very deep, well-drained, sandy soils on ridges, often with charcoal fragments in the E horizon. Due to the fine sand content, the site has a high potential for erosion and requires strict adherence to erosion and sediment control practices.

**5. DRAINAGE AREAS**

The construction plans shall serve as the site drainage maps. Required drainage information is shown on the paving, grading, and drainage plans.

Drainage patterns and flow directions are shown on the approved plans.

Site slopes are shown on grading plans and cross sections.

Limits of disturbance are shown on the erosion and sediment control plans.

Construction entrances are shown on the approved erosion control plans.

**6. AREAS TO BE STABILIZED**

Temporary and permanent stabilization areas are shown on the plans. Stabilization shall be initiated immediately in areas where construction activities have ceased.

**7. SURFACE WATER MANAGEMENT**

Surface water runoff is conveyed as shown on the approved paving and drainage plans. Runoff from disturbed areas shall be directed to on-site stormwater retention and detention facilities prior to discharge.

**8. EROSION AND SEDIMENT CONTROLS**

**a. General**

The contractor is responsible for the installation, inspection, maintenance, and documentation of all erosion and sediment control measures in accordance with the Florida Department of Environmental Protection (FDEP), Orange County, and the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual.

All disturbed areas shall be inspected at least once every seven (7) calendar days and within twenty-four (24) hours following a rainfall event of ½ inch or greater.

**b. Structural Controls**

Stabilized construction entrances shall be installed prior to land disturbance.

Type III silt fence shall be installed along site perimeters and as shown on the plans.

Inlet protection shall be installed on all storm drain inlets receiving runoff from disturbed areas.

Turbidity barriers shall be installed where required to protect downstream waters.

**c. Temporary Stabilization**

Temporary stabilization measures shall be implemented in accordance with Specification Section 104 and the Florida Erosion and Sediment Control Manual.

**d. Permanent Stabilization**

Permanent stabilization shall begin as soon as practicable and no later than fourteen (14) days after construction activities have ceased in any area.

**9. STORMWATER MANAGEMENT**

Stormwater shall be conveyed through storm sewer systems, swales, and retention/detention areas as shown on the approved plans.

**10. MAINTENANCE**

**ITEM MAINTENANCE REQUIREMENT REPLACEMENT INTERVAL**

Silt Fence Maintain per Specification Section 104 6 Months  
Sediment Basins/Ponds Remove sediment at 6" depth As Required  
Straw Bales Remove sediment at ½ bale height 3 Months

Rainfall shall be measured on site and recorded daily. Maintenance activities shall be documented in the SWPPP log.

**11. INSPECTIONS**

Qualified personnel shall inspect the site at least once every seven (7) days and within twenty-four (24) hours after a rainfall event of ½ inch or greater.

Inspection items include, but are not limited to:

Discharge points

MS4 connections

Disturbed areas

Material storage areas

Stormwater management systems

Construction entrances and exits

**12. NON-STORMWATER DISCHARGES**

A dewatering plan shall be submitted to Orange County and applicable agencies for approval prior to dewatering activities. If contaminated groundwater is encountered, the appropriate regulatory agencies shall be notified immediately.

**13. RESPONSIBLE PARTIES**

The contractor and all subcontractors are responsible for implementation and maintenance of erosion and sediment control measures identified in this SWPPP and shall execute required certifications.

**GENERAL NOTES:**

All work shall be performed in accordance with the latest editions of the Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, applicable City of Apopka standards, and all governing local, state, and federal regulations.

All required permits shall be obtained prior to commencement of construction.

All construction shall be completed in a good and workmanlike manner. Materials and installation shall conform to approved plans, specifications, and manufacturer requirements.

All materials proposed for use shall be submitted to the Engineer of Record (EOR) for review and approval prior to installation.

The contractor shall notify the City and the Engineer of Record at least forty-eight (48) hours in advance of commencing work.

The contractor shall be fully responsible for the maintenance of traffic and pedestrian safety during construction. All traffic control shall comply with the Manual on Uniform Traffic Control Devices (MUTCD).

All elevations shown on these plans are based on information obtained from survey. Elevations are intended to indicate approximate ground conditions only.

It is the contractor's responsibility to verify all existing conditions, utilities, grades, and dimensions in the field prior to construction. Any discrepancies shall be reported to the Engineer of Record before proceeding.

Existing utilities shall be protected at all times. The contractor shall be responsible for all utility coordination and for repairing any damage caused by construction operations.

The contractor shall be responsible for all interruptions to utilities resulting from construction activities.

Yielding materials within public right-of-way pavement, sidewalks, building pads, drainage areas, or roadways shall be compacted in accordance with AASHTO T-99C, unless noted otherwise.

Bedding materials shall be non-cohesive, non-plastic, and free of debris, lumps, wood, or organic matter. No rock larger than 3 inches shall be permitted as bedding material.

A Florida-licensed Professional Engineer or Land Surveyor shall submit required certifications to the Engineer of Record and the governing jurisdiction for final acceptance of the work.

Certification numbers shall be clearly shown on all applicable drawings prior to commencement of construction within the right-of-way.

All erosion control measures shall be installed prior to construction and shall remain in place until disturbed areas are stabilized and vegetation is fully established.

**GRADING AND DRAINAGE NOTES**

Grading and drainage construction shall conform to FDOT Standard Specifications, Sections 300-339, unless noted otherwise.

Construction shall also comply with applicable portions of FDOT Sections 200-260, as required.

Roadway and building pad subgrades shall be compacted to a density of not less than 98% of the maximum dry density as determined by AASHTO T-99, unless noted otherwise.

Backfill beneath curbs, sidewalks, slabs, and drainage structures shall be compacted to the required density prior to placement of concrete.

Fill material used on site shall be approved by the Engineer of Record. Density testing shall be performed by a certified testing laboratory. The contractor shall be responsible for all retesting costs associated with failed tests.

No grading or construction shall commence until satisfactory density tests have been reviewed and accepted by the Engineer of Record.

Utilities located within paved areas, including but not limited to sewer, water, drainage, electrical, telephone, and communication lines, shall be completed and approved prior to paving operations.

Curbs, gutters, drainage inlets, sidewalks, and related improvements shall be constructed in accordance with FDOT Road and Bridge Construction Section 346.

Pavement markings and signage shall conform to FDOT Roadway and Traffic Design Standards and MUTCD requirements, unless otherwise directed by the authority having jurisdiction.

All workmanship within county or municipal right-of-way shall meet or exceed the requirements of the governing agency.

No materials shall be placed within county, city, or state right-of-way until certified as-built drawings have been submitted and approved, where required.

Unsuitable materials encountered in the subgrade shall be removed and replaced with approved materials as directed by the Engineer of Record.

Excavated areas shall be properly backfilled, bedded, and compacted. Slopes shall be graded to provide positive drainage.

Where drainage structures or pipes conflict with existing conditions, adjustments shall be made to accommodate site conditions while maintaining design intent.

All erosion and sediment control measures, including silt fences, hay bales, and turbidity barriers, shall be installed and maintained as required to prevent sedimentation of adjacent properties, wetlands, or waterways.

Traffic control devices including stop signs, stop bars, and lane delineators shall be installed in accordance with MUTCD standards.

Any areas disturbed by construction shall be restored to pre-construction conditions or better.

**Revisions**


SUNSTATE PLANS LLC.  
Licensed Engineering Firm  
2727 Silver Star Rd, Orlando, FL 32822  
407-902-7128  
Sunstateplans@gmail.com

CONSTRUCTION PLANS  
PAVE A LOT ASPHALT MAINTENANCE INC  
951 S. HIGHLAND AVE.,  
APOPKA, FLORIDA 32703

**GENERAL NOTES**

Drawn By: LP

Approved BY: DH

Date: 12/23/2025

GN-0.02



Digitally signed by  
Juan C Rivera  
Date: 2025.12.30  
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# GOSPEL CENTERED CHURCH

## 4490 ROCK SPRINGS ROAD

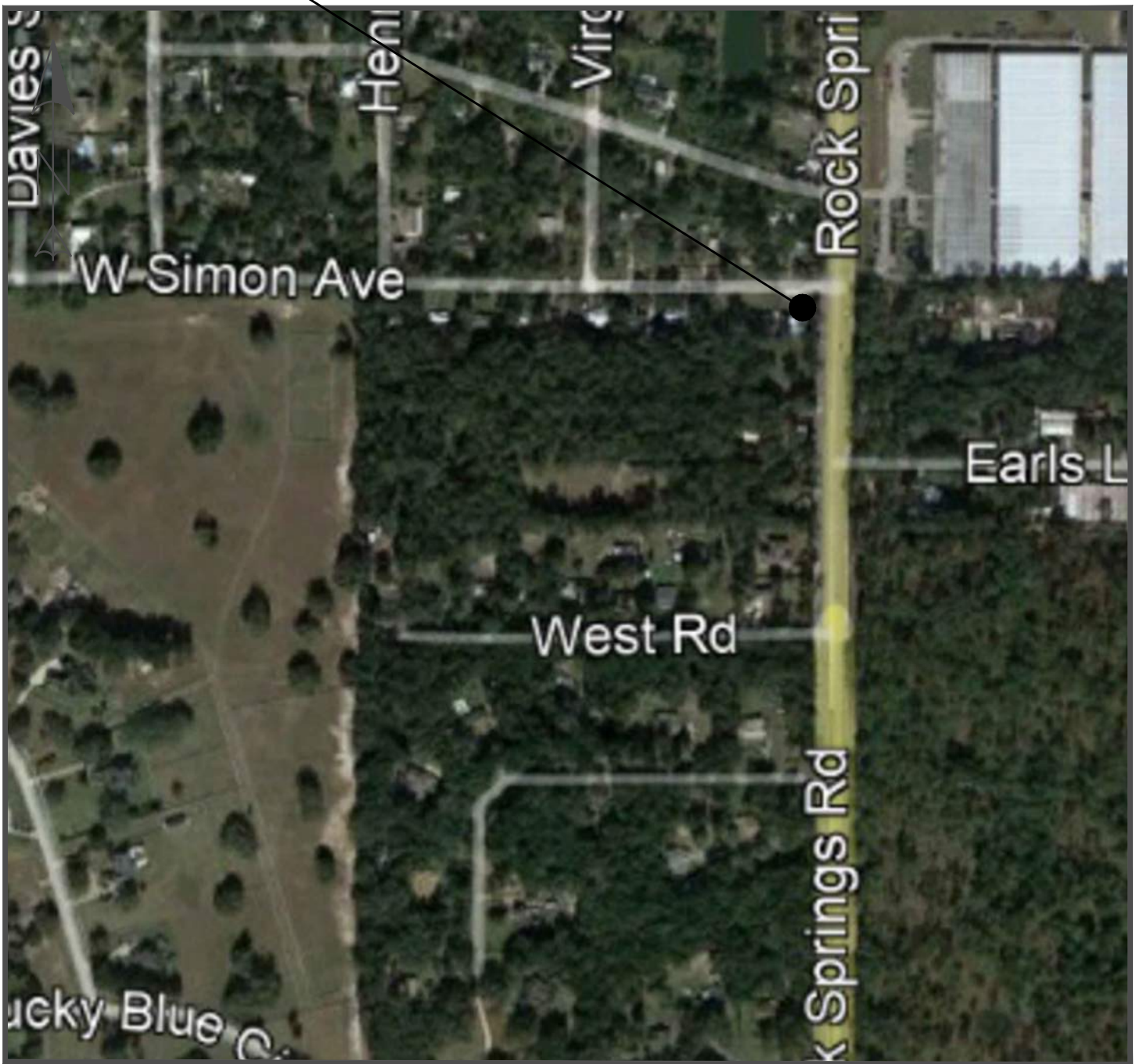
SECTION 16, TOWNSHIP 20S, RANGE 28E  
APOPKA, ORANGE COUNTY, FLORIDA

INDEX OF SHEETS	
Sheet Number	Sheet Title
C-01	COVER
C-02	GENERAL NOTES
C-03	EXISTING CONDITIONS AND SWPPP
C-04	SWPPP DETAILS
C-05	DEMOLITION PLAN
C-06	SITE PLAN
C-07	HORIZONTAL CONTROL PLAN
C-08	PAVING, GRADING & DRAINAGE PLAN
C-09	SECTION VIEWS
C-10	UTILITY PLAN
C-20	SITE DETAILS
C-21	SITE DETAILS
C-22	DRAINAGE DETAILS
C-23	UTILITY DETAILS
C-24	UTILITY DETAILS
C-25	UTILITY DETAILS
C-26	UTILITY DETAILS
C-27	UTILITY DETAILS
C-28	LIFT STATION
C-30	FIRE ACCESS PLAN
C-31	MAINTENANCE OF TRAFFIC

**LOCATION MAP**



**PROJECT LOCATION**



**VICINITY MAP**

SCALE: N.T.S.

LEGAL DESCRIPTION:

PARCEL I.D.: 16-20-28-0000-00-022

A PORTION OF LAND IN SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS: THE SOUTH 1/2 OF THE NORTH 1/4 OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS ROAD RIGHT-OF-WAY AND LESS THE WEST 1/2 ACRE THEREOF.

AND

THE WEST 480 FEET OF THE EAST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/4 OF THE NE 1/4 OF THE SE 1/4 SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET FOR THE ROAD, LESS AND EXCEPT THE WEST 120 FEET OF THE WEST 480 FEET OF THE EAST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/4, OF THE NE 1/4 OF THE SE 1/4, SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET FOR THE ROAD.

ALSO

LESS AND EXCEPT THAT PORTION THEREOF AS CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY FINAL JUDGMENT RECORDED IN OFFICIAL RECORDS BOOK 2804, PAGE 596, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LESS THE WEST 400 FEET AND THE SOUTH 35 FEET THEREOF. SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF APOPKA, ORANGE COUNTY, FLORIDA, CONTAINING 137,532 SQUARE FEET OR 3.164 ACRES, MORE OR LESS.

PROJECT TEAM

OWNER: GOSPEL CENTERED CHURCH  
4490 ROCK SPRINGS ROAD  
APOPKA, FL 32703

CIVIL ENGINEER: MARCI CHANDLER, P.E.  
1030 HAAS ROAD  
APOPKA, FL 32712  
407-866-9530

SURVEYOR: IRLAND AND ASSOCIATES  
SURVEYING INC  
800 CURRENCY CIRCLE  
SUITE 1020  
LAKE MARY, FL 32746  
407-648-3366

UTILITY PROVIDER

POWER: DUKE POWER

COMMUNICATIONS: SPECTRUM

WATER: CITY OF APOPKA  
WASTEWATER: CITY OF APOPKA  
REUSE WATER: CITY OF APOPKA

This item has been digitally signed and sealed by  
Marci D Chandler on the date adjacent to the seal.

Signature must be verified on any electronic copies.

MARCI D CHANDLER, PE #63034

1030 HAAS ROAD  
APOPKA, FL 32712  
407-866-9530  
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GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO SEMINOLE COUNTY STANDARDS AND SPECIFICATIONS AND TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MOST RECENT EDITIONS.
2. MARCI CHANDLER, P.E. (ENGINEER) SHALL BE NOTIFIED IMMEDIATELY OF ANY SITUATION REQUIRING DEVIATION FROM THESE PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ISSUING APPROPRIATE NOTIFICATION TO ALL GOVERNMENT AGENCIES, PRIVATE UTILITIES AND THE OWNER'S REPRESENTATIVE OF THEIR INTENDED WORK SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.
4. SHOP DRAWINGS OF ALL MATERIAL BEING USED FOR CIVIL SITE WORK SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING.
5. EXISTING UTILITIES WERE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST, ABOVE OR BELOW GROUND, THIS IS TO INCLUDE, BUT NOT BE LIMITED TO, THE LOCATION OF STORM DRAINS FROM THE BUILDING, STORMWATER EXFILTRATION SYSTEMS, SANITARY SEWER, GAS, ELECTRIC, WATER AND IRRIGATION LINES. PRIOR TO CONSTRUCTION: CONTRACTOR REQUIRED TO CALL SUNSHINE FOR ALL UTILITY LOCATES 48 HOURS PRIOR TO EXCAVATION.
6. UNDERGROUND UTILITY LINES SHOWN HEREON ARE TAKEN FROM EXISTING RECORDS AND NOT FIELD VERIFIED.
7. DURING THE BIDDING PHASE OF THIS PROJECT, THE CONTRACTOR SHALL VERIFY THE TOPOGRAPHY DATA PROVIDED ON THE CONSTRUCTION PLANS, INCLUDING UTILITY LOCATION. ANY DISCREPANCIES BETWEEN CONSTRUCTION PLANS DATA AND ITEMS IDENTIFIABLE AT THE SITE SHALL BE REPORTED BY THE CONTRACTOR TO THE OWNER AND THE ENGINEER TO ALLOW FOR TIMELY ADJUSTMENT OF THE BIDDING DOCUMENTS AND ISSUANCE OF ADDENDA.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR REMOVAL AND STORAGE OF ALL ITEMS RESULTING FROM SITE CLEARING.
9. ALL STRIPPING OR OTHER UNSUITABLE AERIAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, SIDE STREETS, DRAINAGE PIPES, MAILBOXES, SIDEWALKS, STREET SIGNS, LANDSCAPING, IRRIGATION AND FENCES AS REQUIRED BY THE OWNER.
11. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES.
12. ALL WALKS SHALL HAVE A MAXIMUM CROSS-SLOPE OF 1:50 (2.00%) AND SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 1:20 (5.00%). THE CONTRACTOR SHALL INSURE THAT ALL PROVISIONS OF F.A.D AND THE STATE OF FLORIDA ACCESSIBILITY CODE ARE MET.
13. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE OF THE SITE DURING AND AFTER CONSTRUCTION. ALL AREAS ARE TO POSITIVELY DRAIN TO INLETS OR SHEET FLOW AS SHOWN.
14. ALL INLETS, MANHOLES, CLEANOUTS OR OTHER STRUCTURES LOCATED WITHIN PAVEMENT AREAS SHALL BE TRAFFIC RATED, ALL SHALL HAVE 14-20 TRAFFIC BEARING TOPS, LIDS AND/OR GRATES, INLETS SHALL BE FURNISHED WITH STEEL FRAMES.
15. ALL CLEANOUTS, MANHOLES OR OTHER STRUCTURES ENCOUNTERED SHALL BE ADJUSTED AS NECESSARY. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING TRAFFIC BEARING TOPS, LIDS, GRATES, ETC. AS REQUIRED TO MEET THE PROVISIONS OF NOTE #14 ABOVE.
16. PROVIDE CONTROL AND ABATEMENT OF EROSION, SEDIMENT RUNOFF AND WATER POLLUTION PER SEMINOLE COUNTY, ST JOHNS RIVER WATER MANAGEMENT DISTRICT, F.D.O.T. AND U.S. E.P.A. REQUIREMENTS AND STANDARD DETAILS. EROSION PROTECTION SHALL BE PLACED PRIOR TO ANY CONSTRUCTION SHALL REMAIN IN PLACE AND BE PROPERLY MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE. EROSION PROTECTION SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH PERMANENT GRASSING OR PAVEMENT AS APPROVED BY THE ENGINEER.
17. ZONING OF SITE IS RCE-RESIDENTIAL COUNTY ESTATE.
18. TOPOGRAPHICAL SURVEY PROVIDED BY OWNER.
19. A PORTION OF LAND IN SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS THE SOUTH 1/2 OF THE NORTH 1/4 OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS ROAD RIGHT-OF-WAY AND LESS THE WEST 1/2 ACRE THEREOF. AND THE WEST 480 FEET OF THE EAST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/4 OF THE NE 1/4 OF THE SE 1/4 SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET FOR THE ROAD, LESS AND EXCEPT THE WEST 120 FEET OF THE WEST 480 FEET OF THE EAST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/4 OF THE NE 1/4 OF THE SE 1/4 SECTION 16, OWNERSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET FOR THE ROAD, ALSO LESS AND EXCEPT THAT PORTION THEREOF AS CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY FINAL JUDGMENT RECORDED IN OFFICIAL RECORDS BOOK 28024, PAGE 590, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LESS THE WEST 400 FEET AND THE SOUTH 35 FEET THEREOF.
20. ALL DISTURBED AREAS SHALL BE FULLY SODDED UPON COMPLETION OF CONSTRUCTION.
21. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
22. THE CONTRACTOR SHALL PROVIDE CERTIFIED AS-BUILT DRAWINGS TO THE ENGINEER AT THE COMPLETION OF CONSTRUCTION SHOWING THE HORIZONTAL AND VERTICAL LOCATION OF ALL CONSTRUCTED IMPROVEMENTS INCLUDING BUT NOT LIMITED TO, STORM INLETS, MANHOLES AND PIPING, SANITARY SEWER PIPING, CLEANOUTS AND MANHOLES, WATER DISTRIBUTION PIPING, VALVES BENDS FIVE HYDRANTS, BLOWOFFS, ETC., BUILDING LOCATION AND FINISHED FLOOR ELEVATION, ELEVATION AND LOCATION OF PAVEMENT, CURBS OR OTHER IMPROVEMENTS.
23. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGE OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
24. THE CONTRACTOR SHALL CONTACT ENGINEER OF RECORD, THE APPROPRIATE GOVERNMENTAL JURISDICTIONAL AGENCY AND ALL OTHER CONCERNED UTILITIES AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS.
25. PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL NOTIFY THE OWNER BY LETTER, PRIOR TO THE PRE-CONSTRUCTION MEETING, APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS.
26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF A BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT.
27. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENHANCED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.
28. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, OR THE LOCAL JURISDICTIONAL MUNICIPALITY, WHICHEVER IS MORE STRINGENT.
29. ALL PROPOSED UTILITY MATERIALS, CONSTRUCTION METHODS, TESTING AND DISINFECTION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT LOCAL UTILITY COMPANY STANDARDS AND AWWA CURRENT STANDARD. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND UTILIZE A CURRENT COPY OF THE LOCAL REGULATING UTILITY COMPANY STANDARDS AND ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH THEIR STANDARDS. ANY CONFLICT WITH THE CONSTRUCTION DRAWINGS AND THE LOCAL UTILITY COMPANY SHALL BE RESOLVED UTILIZING THE MOST STRINGENT DIRECTION.
30. ALL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS SHALL BE PROTECTED AND UNDISTURBED. IN THE EVENT THAT A CONTROL POINT IS DISTURBED OR DESTROYED, THE POINT SHALL BE RE-ESTABLISHED BY A FLORIDA REGISTERED LAND SURVEYOR. THE METHOD TO RE-ESTABLISH THE POINT SHALL BE APPROVED BY THE CITY / COUNTY ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
31. THE CONTRACTOR SHALL PREPARE A COMPLETE VIDEO RECORD OF THE PROJECT SITE BEFORE BEGINNING ANY WORK. THE VIDEO RECORD SHALL INCLUDE ALL ROADWAY, DRAINAGE AND UTILITIES POINTS OF CONNECTION AND SHALL EXTEND A MINIMUM OF 1800 FEET BEYOND THE WORK LIMITS TO DOCUMENT THE EXISTING CONDITIONS. THE CONTRACTOR SHALL ALSO VIDEO DOCUMENT ALL HAUL ROUTES NEEDED FOR THE OFF-SITE MOVEMENT OF EARTHWORK. COPIES OF THE VIDEO RECORD TO BE PROVIDED TO THE ENGINEER OF RECORD AND THE OWNER PRIOR TO SUBMITTAL OF THE FIRST PAY REQUEST. IF DAMAGE TO EXISTING INFRASTRUCTURE IS RECOGNIZED DURING THE COURSE OF THE PROJECT AND CANNOT BE IDENTIFIED AS A PRE-CONSTRUCTION CONDITION ON THE VIDEO RECORD, THE CONTRACTOR MAY BE REQUIRED TO MAKE PROPER REPAIRS.
32. THE CONTRACTOR SHALL VIDEO TAPE THE EXTERIOR AND REAR YARDS OF ALL HOUSES / BUSINESSES IN THE PROJECT AREA.

PAVING, GRADING AND DRAINAGE NOTES

- 1. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIAL AS CLASSIFIED BY AASHTO M-145, FOUND SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL, AND REPLACED WITH THE SPECIFIED FILL MATERIAL. IN MAXIMUM 12 INCH LIFTS COMPACTED TO NOT LESS THAN 100% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-99. THICKNESS OF LAYERS MAY BE INCREASED, PROVIDED THAT THE EQUIPMENT AND METHODS USED ARE PROVEN BY FIELD DENSITY TESTING AND CAPABLE OF COMPACTING THICK LAYERS TO SPECIFIED DENSITIES.
2. ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL STUMPS, BRUSH, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFING GROUND TO A DEPTH OF ONE (1) FOOT. ITEMS DESIGNATED TO REMAIN, TO BE RELOCATED, OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS.
3. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF THE RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS, AND STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC. DENSITY TESTS SHALL BE PERFORMED AT THREE (3) LOCATIONS AROUND ANY STRUCTURE. BEGIN TESTING IN THE FIRST FOOT ABOVE THE BOTTOM OF THE STRUCTURE AND THEN EVERY TWO FEET TO WITHIN TWO FEET OF THE FINISH GRADE. THESE DENSITY REQUIREMENTS ARE THE MINIMUM. THE CONTRACTOR SHALL VERIFY DENSITY REQUIREMENTS AND PROTOCOLS WITH THE LOCAL APPROVING AUTHORITY PRIOR TO CONSTRUCTION OR BIDDING OF THE PROJECT.

- 5. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEMS SHALL BE CLEARED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE. ALL CONCRETE SHALL BE A MINIMUM 3,000 PSI. SOME LOCAL GOVERNMENT STORMWATER PROJECTS MAY REQUIRE TELEVISION OF THE STORM SEWER. CONTRACTOR SHOULD BE KNOWLEDGEABLE OF THIS REQUIREMENT PRIOR TO BIDDING OF THE PROJECT.
6. ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
7. THE CONTRACTOR MUST OBTAIN A WATER USE PERMIT PRIOR TO CONSTRUCTION DEWATERING UNLESS THE WORK QUALIFIES FOR A GENERAL PERMIT PURSUANT TO SUBSECTION 40E-20.302(4), F. A. C.

STORM SEWER NOTES

- 1. STANDARD SEPARATION FOR ALL WATER AND/OR WASTEWATER MAINS, HORIZONTAL AND VERTICAL, SHALL BE PER FDEP REQUIREMENTS, PROVISIONS OF F.A.C. RULE 62.604 AND TEN STATES STANDARD OR LOCAL MUNICIPALITIES, WHICHEVER IS MORE STRINGENT.
2. ALL DISTURBED OUTFALL DRAINAGE AREAS SHALL BE SODDED UPON COMPLETION OF GRADING AFTER AS-BUILT GRADE ELEVATIONS ARE APPROVED BY THE ENGINEER.
3. PRIOR TO FINAL PAYMENT FOR RETENTION, DETENTION AND DRAINAGE DITCH QUANTITIES, ALL SLOPES AND SWALES SHALL BE SODDED TO AVOID EROSION.
4. THERE IS TO BE NO OFF-SITE HAULING WITHOUT PRIOR APPROVAL AND ALL EXCAVATED MATERIAL SHALL BE USED ON-SITE. COORDINATION WITH THE OWNER IS REQUIRED FOR THE REMOVAL OF ANY UNSUITABLE MATERIALS.

- 5. THE CONTRACTOR SHALL CONSTRUCT THE STORMWATER MANAGEMENT SYSTEM IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS OF THE WORKS ON FISH, WILDLIFE, NATURAL ENVIRONMENTAL VALUES AND WATER QUALITY ON OR OFF-SITE. THE CONTRACTOR SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS.
6. WITHIN THIRTY (30) DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE CONTRACTOR SHALL ASSIST THE DESIGN ENGINEER TO PROVIDE A WRITTEN STATEMENT OF COMPLETION AND CERTIFICATION BY A FLORIDA PROFESSIONAL ENGINEER. THESE STATEMENTS MUST SPECIFY THE ACTUAL DATE OF CONSTRUCTION COMPLETION AND MUST CERTIFY THAT ALL FACILITIES HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. THE CONSTRUCTION COMPLETION CERTIFICATION MUST INCLUDE, AT A MINIMUM EXISTING ELEVATIONS, LOCATIONS AND DIMENSIONS OF THE COMPONENTS OF THE SURFACE WATER MANAGEMENT FACILITIES. ADDITIONALLY, IF DEVIATIONS FROM THE APPROVED DRAWINGS ARE DISCOVERED DURING THE CERTIFICATION PROCESS, THE CERTIFICATION MUST BE ACCOMPANIED BY A COPY OF THE APPROVED PERMIT DRAWINGS WITH DEVIATIONS NOTED. SEE ALSO AS-BUILT REQUIREMENTS.
7. A STABLE PERMANENT AND ACCESSIBLE ELEVATION REFERENCE SHALL BE ESTABLISHED ON OR WITHIN ONE HUNDRED (100) FEET OF ALL PERMITTED DISCHARGE STRUCTURES NO LATER THAN THE SUBMISSION OF THE CERTIFICATION TO THE WATER MANAGEMENT DISTRICT. THE LOCATION OF THE ELEVATION REFERENCE MUST BE NOTED ON OR WITHIN THE CERTIFICATION REPORT.

- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR SHOALING OF THE WATER QUALITY MANAGEMENT SYSTEM.
9. INLETS (PER F.D.O.T. ROAD AND BRIDGE CONSTRUCTION SPECIFICATIONS 425 / 430) INCLUDES THE LIST OF MATERIALS / INSTALLATION / DEWATERING / TESTING. ALL STRUCTURES WILL REQUIRE THREE (3) COMPACTION TESTS AT DIFFERENT LOCATIONS AND UNDER STRUCTURES OR PER LOCAL APPROVING AUTHORITY, WHICHEVER IS MORE STRINGENT.
10. PIPE CULVERTS AND STORM SEWERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SECTION 430 F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

- 11. HDPE (HIGH DENSITY POLYETHYLENE) CULVERT SHALL BE N-12 INSTALLED PER MANUFACTURER RECOMMENDATIONS. MANUFACTURER IS ADS (ADVANCED DRAINAGE SYSTEMS, INC.) AIR ENTRENCHED PIPE.
12. REINFORCED CONCRETE PIPE SHALL BE ASTM C-76 CLASS III IN ACCORDANCE WITH SECTION 941 OF THE F.D.O.T. STANDARD SPECIFICATIONS.
FILTER FABRIC (STORM PIPE JOINTS)
THE CONTRACTOR SHALL WRAP ALL STORM PIPE JOINTS. CONSTRUCTION SHALL BE PER F.D.O.T. INDEX NO. 280 WITH WOVEN GEOTEXTILE TYPE D-3 (FLORIDA EROSION AND SEDIMENT CONTROL MANUAL RECOMMENDED W/ STRAPPING. ALL JOINTS SHALL BE WRAPPED FOR A MINIMUM OF 188 INCHES FROM THE BAND OR JOINT OR BELL AND SPIGOT AS APPLICABLE.

DEWATERING

STORM SEWER PIPES AND STRUCTURES AND UTILITIES SHALL BE LAID "IN THE DRY", UNLESS OTHERWISE APPROVED IN WRITING BY THE UTILITY AND ENGINEER OF RECORD. THE CONTRACTOR, AT NO DIRECT COST TO THE OWNER, SHALL PERFORM ALL DEWATERING ACTIVITY. TRENCH EXCAVATIONS SHALL BE DEWATERED BY USING ONE OR MORE OF THE FOLLOWING METHODS: SOCK DRAINS, WELL POINT SYSTEM, SUMP PUMPS OR OTHER METHODS) AS APPROVED BY THE ENGINEER. DEWATERING SYSTEMS SHALL BE UTILIZED IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND MUST BE EFFICIENT ENOUGH TO LOWER THE WATER LEVEL. IN ADVANCE OF THE EXCAVATION AND MAINTAIN IT CONTINUOUSLY TO KEEP THE TRENCH BOTTOM AND SIDES FIRM AND DRY. IF THE MATERIAL ENCOUNTERED AT TRENCH GRADE IS SUITABLE FOR THE PASSAGE OF WATER WITHOUT DESTROYING THE SIDES OR UTILITY FOUNDATION OF THE TRENCH, SUMP PUMPS MAY BE PROVIDED AT INTERVALS AT THE SIDE OF THE MAIN TRENCH EXCAVATION, WITH PUMPS USED TO LOWER THE WATER LEVEL BY TAKING THEIR SUCTION FROM SAID SUMPS. DISCHARGE FROM DEWATERING SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, CREATE A PUBLIC NUISANCE OR FORM PONDING. ALL DISCHARGE SHALL BE IN ACCORDANCE WITH ANY SPWMD ISSUED PERMITS. THE OPERATIONS SHALL NOT CAUSE INJURY TO ANY PORTION OF THE WORK COMPLETED OR IN PROGRESS OR TO THE SURFACE OF STREETS OR TO PRIVATE PROPERTY. THE ENGINEER OF RECORD AND NECESSARY REGULATORY AGENCIES, PRIOR TO CONSTRUCTION, SHALL APPROVE THE PROPOSED DEWATERING METHODS) AND SCHEDULE. ADDITIONALLY, WHERE PRIVATE PROPERTY WILL BE INVOLVED, THE CONTRACTOR SHALL OBTAIN ADVANCE PERMISSION FROM THE PROPERTY OWNER.

CONFLICTS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME ACQUAINTED WITH EXISTING CONDITIONS AND TO LOCATE STRUCTURES AND STORM PIPES AND UTILITIES PRIOR TO CONSTRUCTION. WHERE ACTUAL CONDITIONS ARE UNUSUAL OR UNUSUAL, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY. WHERE ACTUAL CONDITIONS ARE UNAVOIDABLE, WORK SHALL BE COORDINATED WITH THE FACILITY OWNER AND PERFORMED SO AS TO CAUSE AS LITTLE INTERFERENCE AS POSSIBLE WITH THE SERVICE RENDERED BY THE FACILITY DISTURBED. ALL AFFECTED UTILITIES SHALL BE NOTIFIED PRIOR TO EXCAVATION IN THEIR VICINITY. CONTRACTOR TO POTENTIAL ALL CONFLICTS OF EXISTING UTILITIES AND PROPOSED IMPROVEMENTS AT LEAST 10 DAYS PRIOR TO CONSTRUCTION TO CONFIRM COLLISION RESOLUTION SHOWN ON THE PLANS.

SOD

- 1. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND. ALL SODDED AREAS SHALL BE GRASSED AS SPECIFIED ON PLANS AND SURVIVAL GUARANTEED FOR NINETY DAYS FROM DATE OF REPLACEMENT. SURVIVAL OF ALL RELOCATED TREES SHALL BE GUARANTEED FOR 1 YEAR AFTER TRANSPLANTING.
2. SODDING SHALL CONSIST OF SITE PREPARATION, FURNISHING AND PLACING SOD, STAPLES AND FERTILIZER AND IRRIGATING AT THE RATES AND MANNER DESCRIBED IN THIS SPECIFICATION FOR THE DESIGNATED AREAS.
3. UNLESS NOTED OTHERWISE ON LANDSCAPE PLANS, SOD SHALL BE ARGENTINE BAHIA GRASS AND SHALL BE 12-INCH BY 12-INCH SQUARES OR OTHER COMMERCIALY AVAILABLE RECTANGLES. THE SOD SHALL BE SUFFICIENTLY THICK (MINIMUM THICKNESS OF 2 INCHES) TO PROVIDE A DENSE STAND OF LIVE GRASS. THE SOD SHALL HAVE BEEN GROWN ON MINERAL SOIL. SOD SHALL BE LIVE, FRESH, AND UNINJURED AT THE TIME OF PLANTING AND SHALL BE PROTECTED FROM DRYING OUT BY SHADING AND WATERING FROM THE TIME IT IS DUG UNTIL PLANTING.
4. FERTILIZER SHALL BE EITHER IN THE LIQUID OR DRY FORM. FERTILIZER SHALL BE UNIFORM IN COMPOSITION, FREE-FLOWING AND SUITABLE FOR APPLICATION WITH STANDARD EQUIPMENT. THE FERTILIZER SHALL CONFORM TO THE CITY OR COUNTY FERTILIZER ORDINANCES IN EFFECT ON THE DATE OF IT BEING PLACED AND SHALL BE DELIVERED IN BAGS, BOTTLES, DRUMS, OR OTHER CONVENIENT CONTAINERS, EACH FULLY LABELED AND BEARING THE NAME, TRADEMARK, ANALYSIS, AND WARRANTY OF THE PRODUCT.
5. LIME SHALL BE DOLOMITIC LIMESTONE, AND SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF FLORIDA FERTILIZER LAW IN EFFECT ON THE DATE OF IT BEING PLACED. LIME SHALL BE APPLIED AT THE RATE OF ONE TON PER ACRE OR 45 POUNDS PER 1,000 SQ. FT.
6. STAPLES FOR SOD PLACED ON SIDE SLOPES 3:1 & STEEPER SHALL BE BLACK IRON WIRE NOT SMALLER THAN 14 GAUGE, AND BENT FROM A LENGTH OF WIRE AT LEAST 25 INCHES LONG INTO A U WITH A 1 INCH WIDTH AT THE CROWN. COST OF STAPLES SHALL BE INCIDENTAL TO THE SOD UNIT PRICE.

- 7. WATER USED FOR IRRIGATION MAY BE OBTAINED FROM ANY APPROVED SOURCE. IT SHALL BE FREE OF EXCESS AND HARMFUL CHEMICALS, ACIDS, ALKALIES, OR ANY SUBSTANCE, WHICH IS HARMFUL TO PLANT GROWTH.
8. WHERE SODDING WILL BE DONE, ALL LOOSE ROCK, WOODY MATERIAL, AND OTHER OBSTRUCTIONS THAT WILL INTERFERE WITH SODDING SHALL BE REMOVED AND THE AREA SHALL BE REASONABLY SMOOTH AND UNIFORM. LIME AND FERTILIZER WILL BE APPLIED IN THE SAME QUANTITY AND MANNER AS SPECIFIED BY THE MANUFACTURER.

- 9. THE SOD STRIPS SHALL BE LAID IN A STAGGERED PATTERN WITH SMUG EVEN JOINTS. ALL JOINTS SHALL BE BUTTED TIGHT TO PREVENT VOIDS. IMMEDIATELY FOLLOWING SOD PLACEMENT, IT SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOT MAT TO SOIL SURFACE. THE SOD SHALL BE SECURELY ANCHORED TO THE SOIL BY PINNING WITH STAPLES OR WOODEN PEGS WHEN PLACED ON SLOPES 3:1 OR STEEPER. COST OF STAPLES AND PEGS SHALL BE INCIDENTAL TO THE SOD UNIT PRICE. PIN OR PEG EACH SEPARATE PIECE OF SOD PLACED OR EVERY 3 FEET ALONG EACH CONTINUOUS STRIP OF SOD.

SOIL EROSION PLAN

- 1. NO POLLUTION OR EROSION CAUSED BY THIS PROJECT WILL BE ALLOWED IN THE STORMWATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL INSTALL ANY DEVICES NECESSARY TO PREVENT POLLUTION OR EROSION. THE COST OF POLLUTION AND EROSION CONTROL SHALL BE INCIDENTAL TO THE COST OF THE CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC SOIL EROSION CONTROL PLAN. IN GENERAL, THE SOIL EROSION CONTROL PLAN SHALL REQUIRE THAT ALL ON-SITE SOILS WILL REMAIN ON-SITE AND WILL NOT ERODE INTO THE ADJACENT ROADSIDE SWALES, ADJACENT PROPERTIES OR RETENTION DITCHES. ALL EXISTING SWALES SHALL REMAIN SODDED DURING CONSTRUCTION. THE CONTRACTOR SHALL SCARIFY ONLY AS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL PLACE VARIOUS PIPE WORK. AFTER PLACEMENT OF THE PIPE, THESE TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 98% MODIFIED PROCTOR AASHTO T-180. PRIOR TO DISCHARGE FROM THE SITE, SILTATION BARRIERS AND HAY BALES SHALL BE UTILIZED AS PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL. THE DRAINAGE WHICH OUTFALLS TO THE RETENTION AREAS SHALL BE STABILIZED AND SODDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION. ANY DEWATERING OR PUMPING OF WATER INTO THE ROADSIDE SWALES OR RETENTION SWALES SHALL BE STAKED WITH BALED HAY AND SILTATION FENCES AS PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL. E TO AVOID FILLING THESE AREAS. UPON COMPLETION OF THE SITE WORK, ALL AREAS SHALL BE SODDED TO AVOID EROSION. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL STATE WATER QUALITY CRITERIA. SPECIFICALLY, NO OFF-SITE DISCHARGES WILL BE ALLOWED WHICH EXCEED THE STATE TURBIDITY CRITERIA.

WATER QUALITY NOTES

- 1. THE CONTRACTOR MUST MAINTAIN A COPY OF THE LATEST LOCAL WATER MANAGEMENT DISTRICT SURFACE WATER PERMIT, COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY DISTRICT REPRESENTATIVES. THE CONTRACTOR SHALL REVIEW THE COMPLETE PERMIT PRIOR TO COMMENCEMENT OF THE ACTIVITY AUTHORIZED BY THE PERMIT.
2. ALL ACTIVITIES SHALL BE IMPLEMENTED AS SET FORTH IN THE PLANS, SPECIFICATIONS AND PERFORMANCE CRITERIA AS APPROVED BY LOCAL SURFACE WATER PERMIT. ANY DEVIATION FROM THE PERMITTED ACTIVITY AND THE CONDITIONS FOR UNDER TAKING THAT ACTIVITY SHALL BE CONSIDERED A VIOLATION OF THE PERMIT. PRIOR TO ANY WORK COVERED BY A PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), A NOTICE OF CONSTRUCTION COMMENCEMENT (FORM 0960) MUST BE SUBMITTED TO SFWMD BY THE PERMITTEE OR AUTHORIZED AGENT.
3. THE LOCAL WATER MANAGEMENT DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, MUST BE GRANTED PERMISSION TO ENTER, INSPECT AND OBSERVE THE SYSTEM TO INSURE CONFORMITY WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE PERMIT.

- 4. PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES (BEST MANAGEMENT PRACTICES) REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS. ALL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS 1988), WHICH ARE HEREBY INCORPORATED BY REFERENCE. UNLESS A PROJECT'S SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED AS PART OF THE SPWMD PERMIT, IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITES SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, BEYOND THOSE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES AS NECESSARY, IN ACCORDANCE WITH THE SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS 1988). THE CONTRACTOR SHALL CORRECT ANY EROSION OR SHOALING THAT CAUSES ADVERSE IMPACTS TO THE WATER RESOURCES AT NO ADDITIONAL COST TO OWNER.

- 5. WITHIN 30 DAYS AFTER COMPLETION OF THE STORMWATER SYSTEM, THE CONTRACTOR MUST ASSIST IN SUBMITTING TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT THE FOLLOWING: DISTRICT FORM EN-45 (AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER) SIGNED AND SEALED BY AN APPROPRIATE PROFESSIONAL REGISTERED IN THE STATE OF FLORIDA AND TWO SETS OF AS-BUILT DRAWINGS WHEN A) REQUIRED BY A SPECIAL CONDITION OF THIS PERMIT; B) THE PROFESSIONAL USES AS-BUILT DRAWINGS TO SUPPORT THE AS-BUILT CERTIFICATION, OR C) WHEN THE COMPLETED SYSTEM SUBSTANTIALLY DIFFERS FROM PERMITTED PLANS. THIS SUBMITTAL WILL SERVE TO NOTIFY THE DISTRICT STAFF THAT THE SYSTEM IS READY FOR INSPECTION AND APPROVAL.

- 6. 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 TEMPORARY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
7. THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO THE INITIATION OF THE PERMITTED USE OF SITE INFRASTRUCTURE. THE SYSTEM MUST BE COMPLETED IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO TRANSFERRING RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM TO A RESPONSIBLE ENTITY.

- 8. IF DEWATERING IS TO OCCUR DURING ANY PHASE OF CONSTRUCTION OR THEREAFTER AND THE SURFACE WATER PUMP(S), WELL(S) OR FACILITIES ARE CAPABLE OF WITHDRAWING ONE MILLION GALLONS OF WATER PER DAY OR MORE OR AN AVERAGE OF 1800,000 GALLONS PER DAY OR MORE OVER A YEAR AND ANY DISCHARGE IS TO BE OFF-SITE, THE CONTRACTOR MUST APPLY FOR AND OBTAIN A CONSUMPTIVE USE PERMIT (CUC-2) FROM THE SFWMD. CONTRACTOR SHALL NOTIFY ENGINEER IF ADDITIONAL INFORMATION OR APPLICATION MATERIALS ARE NEEDED.

- 9. WATER QUALITY MONITORING SHALL BE PERFORMED DAILY. SAMPLING SHALL BE PERFORMED IN THE MIDDLE OF ADJACENT CHANNELS MEASURING FOR TURBIDITY, 100 FEET UPSTREAM AND 100 FEET DOWNSTREAM OF DISCHARGES. WHEN TURBIDITY EXCEEDS 29 NTUS ABOVE BACKGROUND LEVELS AT A SAMPLE POINT 100 FEET UPSTREAM OF DISCHARGES AND / OR 10 NTUS ABOVE BACKGROUND LEVELS AT A SAMPLE POINT 100 FEET DOWNSTREAM OF DISCHARGES, WORK MUST CEASE AND REMEDIAL MEASURES MUST BE PERFORMED TO RETURN CONDITIONS TO ACCEPTABLE TURBIDITY LEVELS. CONTRACTOR MUST RECEIVE ENGINEER'S APPROVAL PRIOR TO RESTARTING WORK. SAMPLE POINT LOCATIONS ARE IDENTIFIED IN THE SFWMD PERMITS.

- 10. THE CONTRACTOR SHALL PLACE TURBIDITY BARRIERS AT ALL OUTFALLS PRIOR TO CONSTRUCTION. ALL CUT / FILL WILL BE RELOCATED WITHIN THE EXISTING SITE AND THEREFORE HAULING OF MATERIAL WILL NOT BE REQUIRED, UNLESS APPROVED BY THE OWNER. CONTRACTOR SHALL INSTALL TURBIDITY CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION, MAINTAIN SAID CONTROLS IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PERIOD, ASSURE THAT TURBID DISCHARGES FROM THE PROJECT TO PROTECTED WATERS AND WETLANDS DO NOT EXCEED LIMITS STATED IN NOTE 9 AND REMOVE SAID CONTROLS AFTER COMPLETION OF CONSTRUCTION.

EARTHWORK AND RELATED OPERATIONS

- 1. THE CONTRACTOR SHALL PROVIDE A QUALITY CONTROL PLAN FOR MONITORING OF ALL EARTHWORK AND RELATED OPERATIONS. THE QUALITY CONTROL PLAN SHALL INCLUDE AS A MINIMUM, ALL TESTS THAT WILL BE PERFORMED INCLUDING THE PROPOSED TEST FREQUENCIES, ALL MATERIAL SOURCES, THE NAME AND BACKGROUND OF THE PERSON THAT THE CONTRACTOR WILL DESIGNATE AS THE CONTRACTOR'S QUALITY CONTROL MANAGER, THE NAME AND QUALIFICATIONS OF THE TESTING LABORATORY THAT WILL BE PERFORMING QUALITY CONTROL TESTING AND THE NAMES AND QUALIFICATIONS OF THE TESTING LABORATORY PERSONNEL THAT WILL BE PERFORMING THE QUALITY CONTROL TESTING.
2. THE TESTING LABORATORY THAT IS RETAINED TO PERFORM THE CONTRACTOR'S QUALITY CONTROL TESTING MUST BE CERTIFIED BY A RECOGNIZED QUALIFYING AGENCY SUCH AS F.D.O.T., CMCO OR AASHTO FOR THE TYPE OF WORK TO BE PERFORMED.
3. THE QUALITY CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY EARTHWORK OR RELATED OPERATION.
4. UTILIZATION OF MATERIALS WITHIN ANY ROADWAY CROSS-SECTION SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION) UNLESS OTHERWISE SHOWN ON THE PLANS.
5. IF THE EXISTING FILL IS CLASSIFIED AS A-2-4 BASED ON AASHTO M-145 CRITERIA, THE MAXIMUM PERMISSIBLE MOISTURE CONTENT SHALL BE 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

COMPACTION

- 1. WHERE THERE ARE EXISTING STRUCTURES ADJACENT TO THE SITE THAT MAY BE AFFECTED BY THE SELF-PROPELLED STEEL DRUM VIBRATORY EQUIPMENT, DENSIFICATION MUST BE PERFORMED USING EQUIPMENT THAT WILL SATISFY THE REQUIRED DENSIFICATION WITHOUT THE RISK OF DAMAGE TO THE EXISTING STRUCTURE(S).
2. LOADERS AND HEAVY PLATE COMPACTORS ARE TWO TYPES OF EQUIPMENT THAT HAVE BEEN USED SUCCESSFULLY.
3. DENSIFICATION PROCEDURES MUST COMPLY WITH THE CAPABILITY OF THE EQUIPMENT EMPLOYED.
4. WHEN SELF-PROPELLED STEEL DRUM VIBRATORY EQUIPMENT CANNOT BE USED AS SPECIFIED, VIBRATORY PLATE COMPACTORS MAY BE USED. WHEN THIS CONDITION OCCURS, THE OVERALL DENSIFICATION PROCEDURE MUST BE REVISED TO COMPLY WITH THE CAPABILITY OF THE EQUIPMENT EMPLOYED. IN GENERAL, SMALL PLATE COMPACTORS WILL BE EFFECTIVE TO A MAXIMUM DEPTH OF 6 TO 8 INCHES.

SOIL RECOMMENDATION AND REQUIREMENTS

- 1. STRIPPING AND GRUBBING: DURING THE GRUBBING OPERATION, ROOTS WITH A DIAMETER GREATER THAN 1/2 INCH, OR SMALL ROOTS IN A DENSE STATE, SHOULD BE GRUBBED AND COMPLETELY REMOVED. PROOF-ROLLING THE CLEARED SURFACE IS RECOMMENDED TO LOCATE ANY UNFORESEEN SOFT AREAS OR UNSUITABLE SURFACE OR LOOSE TO LOOSE FINE SAND SOILS WITHIN THE TOP 3 TO 4 FEET, AND TO PREPARE THE EXISTING SURFACE FOR THE ADDITION OF THE FILL SOILS (AS REQUIRED). ONE COVERAGE CONSISTS OF PARALLEL PASSES OF THE VIBRATORY ROLLER "TRAVELING AT "WALKING SPEED". EACH PASS SHOULD OVERLAP THE PRECEDING PASS BY 30% TO INSURE COMPLETE COVERAGE. SUBSEQUENT COVERAGES SHOULD BE CONDUCTED IN A DIRECTION PERPENDICULAR TO THE PRECEDING COVERAGE. IN AREAS THAT CONTINUE TO "YIELD" REMOVE ALL DELETERIOUS MATERIAL AND REPLACE WITH A CLEAN, COMPACTED SAND BACKFILL. THE PROOF ROLLING SHOULD PRODUCE A DENSITY EQUIVALENT TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY VALUE FOR A DEPTH OF 2 FEET IN THE BUILDING AREA. ADDITIONAL PASSES MAY BE REQUIRED IF THESE MINIMUM DENSITY REQUIREMENTS ARE NOT ACHIEVED.
2. FILL REPLACEMENTS:
• WHERE FILL IS TO BE PLACED ON NATURAL GROUND, THE SURFACE MUST FIRST BE PREPARED AS OUTLINED ABOVE. THE FILL AT GRADE SHOULD EXTEND A MINIMUM OF FIVE FEET (5) BEYOND THE STRUCTURE OUTLINE.
• FILL SHOULD BE A UNIFORM FREE DRAINING GRANULAR SOIL (CLEAN SAND) AND BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES LOOSE MEASURE AND COMPACTED AS OUTLINED ABOVE. SUFFICIENT COMPACTIVE EFFORT SHOULD BE APPLIED TO OBTAIN A MINIMUM OF 98% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM VALUE.
3. EXCAVATION AND BACKFILLING: WHERE EXCAVATION AND BACKFILLING ARE REQUIRED, THE SOILS SHOULD BE REMOVED TO THE SPECIFIED DEPARTMENT SUFFICIENT COMPACTIVE EFFORT MUST THEN BE APPLIED TO THE EXCAVATED SURFACE TO OBTAIN A MINIMUM OF 98% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM VALUE. BACKFILL SHALL BE UNIFORM FREE DRAINING GRANULAR SOIL (CLEAN SAND) AND BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES LOOSE MEASURE. SUFFICIENT COMPACTIVE EFFORT SHOULD BE APPLIED TO EACH LAYER TO OBTAIN A MINIMUM OF 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM VALUE. THE EXCAVATED SURFACE AND EACH LAYER OF BACKFILL SHOULD BE COMPACTED WITH A SELF-PROPELLED STEEL DRUM VIBRATORY ROLLER HAVING A MINIMUM TOTAL APPLIED FORCE OF 180 TONS.
4. FOOTING EXCAVATION: SEE SOILS LABORATORY RECOMMENDATIONS.
5. GROUNDWATER: HEAVY RAINFALL AND / OR A HIGH WATER TABLE MAY OCCUR BEFORE THE EARTHWORK COMMENCES, OR DURING THE EARTHWORK OPERATION. WHEN THESE CONDITIONS OCCUR AND THE SITE PREPARATION CANNOT BE ACHIEVED AS SPECIFIED, AN EXCAVATION OF THE EXISTING CONDITIONS SHOULD BE CONDUCTED AND THE SPECIFICATIONS REVISED ACCORDINGLY.
6. PAVING AREAS SUITABLE FILL MATERIAL AND THE COMPACTION OF FILL SOILS: ALL FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIALS, SUCH AS ROOTS AND VEGETATION AS A GENERAL GUIDE TO AID THE CONTRACTOR, USE FILLS WITH 3 TO 12 PERCENT BY DRY WEIGHT OF MATERIAL PASSING THE U.S. STANDARDS NO. 200 SIEVE SIZE, WITH PROPER MOISTURE CONTROL. THESE SOILS SHOULD DENSITY USING VIBRATORY COMPACTION METHODS. SOILS WITH MORE THAN 12% MOISTURE THE NO. 200 SIEVE WILL BE MORE DIFFICULT TO COMPACT.
7. ALL IMPORTED FILL SHALL HAVE RADIUM 226 CONTENT LESS THAN 1.0 PCI PER GRAM.

EXCAVATION FOR STRUCTURES AND PIPES

- 1. EARTHWORK AND RELATED OPERATIONS PERFORMED ON STRUCTURES AND PIPES SHALL BE CONDUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) UNLESS OTHERWISE SHOWN ON THE PLANS.
2. REMOVAL OF UNSUITABLE, ORGANIC OR PLASTIC MATERIAL SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND SHALL BE INCIDENTAL TO OTHER WORK.
3. UTILIZATION OF MATERIALS WITHIN THE WORK LIMITS SHALL BE AS DIRECTED BY THE GEOTECHNICAL ENGINEER UNLESS OTHERWISE SHOWN ON THE PLANS.

PIPE AND STRUCTURE BACKFILL

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF EXCAVATED SOILS MEET THE REQUIREMENTS OF THE PROJECT PLANS AND SPECIFICATIONS RELATIVE TO MATERIAL CLASSIFICATION. PIPE AND STRUCTURE BACKFILL MATERIAL SHALL BE LIMITED TO MATERIAL CLASSIFIED AS A-1, A-3 AND A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE COMPACTED IN ACCORDANCE WITH THE MOST RECENT F.D.O.T. SECTION 125 REQUIREMENTS.
2. IF THE BACKFILL MATERIAL IS CLASSIFIED AS A-2-4 BASED ON AASHTO M-145 CRITERIA, THE MAXIMUM PERMISSIBLE MOISTURE CONTENT SHALL BE 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

CLEAN-UP

- 1. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A NEAT CONDITION AT ALL TIMES AND SHALL RESTORE / REPAIR ALL DRIVEWAYS, SIDEWALKS, UTILITIES, LANDSCAPING, IRRIGATION SYSTEMS, ETC. AFFECTED BY CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS, DEBRIS, EQUIPMENT, ETC., FROM THE JOB SITE IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION OPERATIONS.
3. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL DISTURBED AREAS TO BE RESTORED BY CONTRACTOR TO PRE-CONSTRUCTION CONDITION OR BETTER PRIOR TO ACCEPTANCE BY THE OWNER OR LOCAL APPROVING AUTHORITY.

FOUNDATION PREPARATION

- 1. CONSTRUCTION METHODS: AREAS ON WHICH FILTER FABRIC AND ARTICULATED CONCRETE BLOCK MATTRESSES ARE TO BE PLACED SHALL BE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. THE SUBGRADE FOR THE ARTICULATED CONCRETE BLOCK MATS SHALL BE FREE OF VOIDS, PITS, OR DEPRESSIONS AND SHALL BE PROOF-ROLLED TO A MINIMUM OF 90% OF THE ASTM D-698 DENSITY. VOIDS, PITS OR DEPRESSIONS SHALL BE BROUGHT TO GRADE BY BACKFILLING IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE PROJECT SPECIFICATIONS. ALL OBSTRUCTIONS, SUCH AS ROOTS AND PROJECTING STUMPS, SHALL BE REMOVED AND ALL OF THE SOFT OR LOW DENSITY POCKETS OF MATERIAL REMOVED MUST BE FILLED WITH SELECTED MATERIAL AND COMPACTED TO A MINIMUM OF 90% OF THE ASTM D-698 DENSITY. SPECIAL CONSIDERATION FOR BURIED OBSTRUCTIONS (I.E. STUMPS, DEBRIS, ETC.) WILL BE AS SHOWN ON THE DRAWINGS.
2. EXCAVATION AND PREPARATION FOR ANCHOR TRENCHES, SIDE TRENCHES, AND TOE TRENCHES OR APRONS SHALL BE DONE IN ACCORDANCE TO THE LINES, GRADES AND DIMENSIONS SHOWN ON THE DRAWINGS.
3. INSPECTION AND APPROVAL: IMMEDIATELY PRIOR TO PLACING THE FILTER FABRIC AND ARTICULATED CONCRETE BLOCK MATTRESSES, THE PREPARED AREA SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE AND APPROVAL OBTAINED BEFORE ANY FABRIC OR MATTRESSES ARE PLACED THEREON.

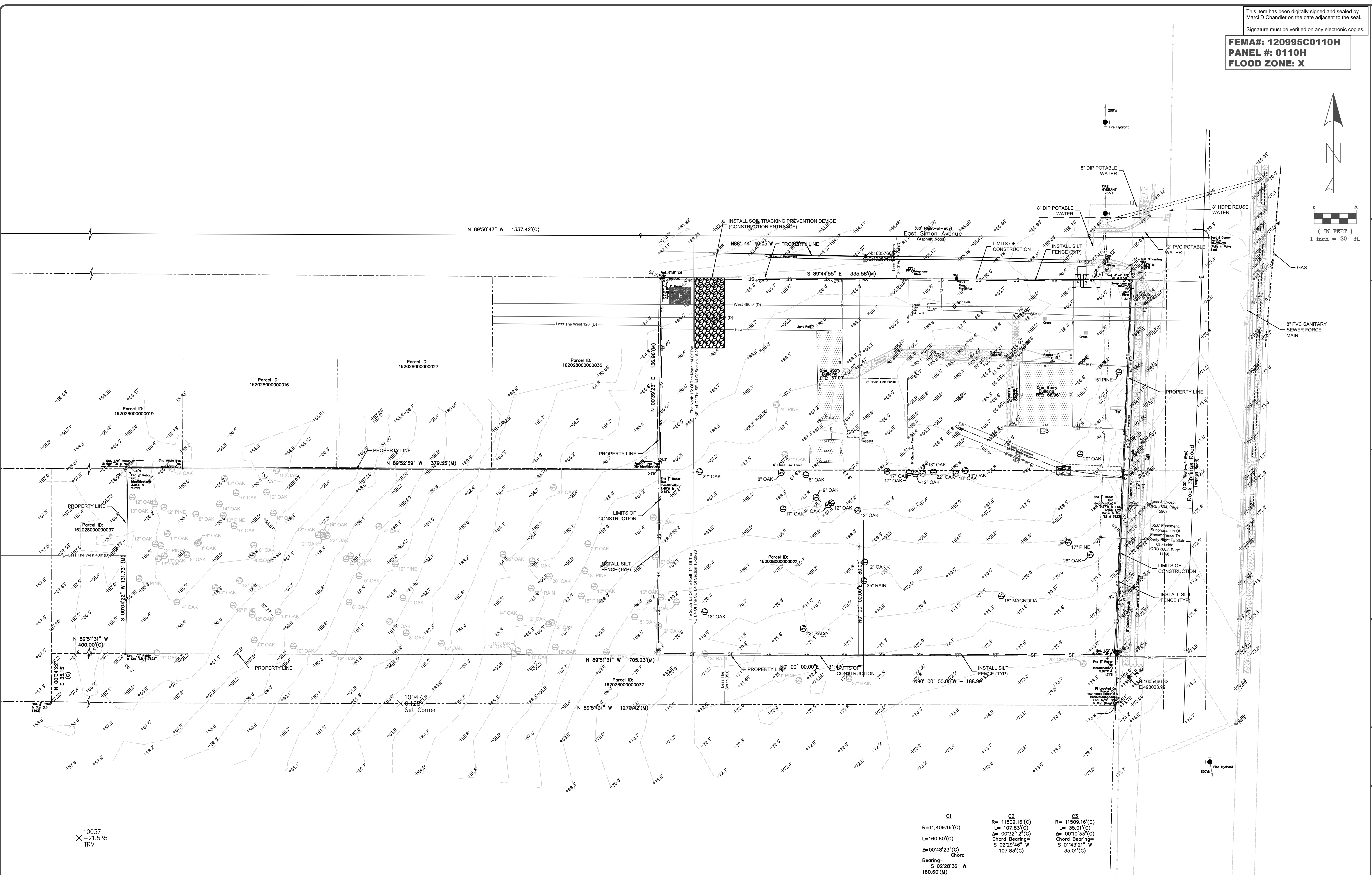
48 HOURS BEFORE DIGGING CALL SUNSHINE STATE ONE CALL CENTER. TOLL FREE 1-800-432-4770

PAVEMENT MARKING AND SIGNAGE

- 1. PAVEMENT MARKINGS: THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND LABOR REQUIRED TO COMPLETE THE PROJECT WORK IN THIS SECTION. MATERIALS AND CONSTRUCTION METHODS FOR APPLYING PAINTED TRAFFIC STRIPES AND MARKINGS, COMPLETE WITH REFLECTIVE GLASS SPHERES, SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT F.D.O.T. SECTION 710 SPECIFICATIONS. TRAFFIC PAINT SHALL BE APPLIED IN ALL LOCATIONS SHOWN ON THE PLANS. IN THE EVENT THAT BRICK PAVERS ARE UTILIZED IN AN AREA PLANNED FOR STRIPING, COLORED BRICKS SHALL BE USED IN LIEU OF PAINT.
2. SIGNAGE: THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NEEDED, INCLUDING ALL SUPPORTING ELEMENTS, TO INSTALL SIGNS AT THE LOCATIONS SHOWN ON THE PLANS. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE MOST RECENT F.D.O.T. SECTION 700 SPECIFICATIONS. STOP SIGNS ARE TO BE HIGH INTENSITY REFERENCE PER F.D.O.T. STANDARDS. LOCAL COUNTY/CITY STANDARD AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. IF THE PROJECT IS WITHIN A COMMUNITY DEVELOPMENT DISTRICT (OR THE LIKE) WITH SEPARATE SIGNAGE REQUIREMENTS, SUCH AS

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Marc D Chandler on the date adjacent to the seal.  
Signature must be verified on any electronic copies.

FEMA#: 120995C0110H  
PANAL #: 0110H  
FLOOD ZONE: X



C1  
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C2  
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C3  
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SIGNATURE & SEAL	
PREPARED BY: MARCI D. CHANDLER FL PE #63034 1030 HAAS ROAD APOPKA, FL 32712 407-866-9530	
SCALE: 1" = 30'	CLIENT: GCC
DATE: JULY 2025	PROJECT: GCC APOPKA, FL
ISSUED FOR: CONSTRUCTION	EXISTING CONDITIONS AND SWPPP
SUBMITTALS: CONSTRUCTION/GRID REVISIONS	
C-03	

# GENERAL NOTES EROSION CONTROL

## 1.0 SITE DESCRIPTION

### 1.a Nature of Construction Activities

Development of approximately 1.20 acres of land for a tennis & pool complex. The project will utilize existing drainage.

### 1.b Sequence of Major Soil Disturbing activities:

The following sequence of major activities shall be followed unless the contractor can propose an alternative that is equal or exceeds the erosion and sediment control practices described in this document, and is approved by the Engineer. The detailed sequence for the entire project can vary significantly from contractor to contractor. The contractor is responsible for providing a detailed sequence of construction for all construction activities.

- 1- Clearing and grubbing of site
- 2- Excavation general grading
- 3- Installation of underground utilities.
- 4- Finishing grading.

### 1.c Area Estimates

Total site area: 3.16 Acres  
Total area to be disturbed: 2.04 Acres

### 1.d Estimate of drainage area size for each discharge point.

Basin #1: 3.16 Acres  
2.04 Acres

### 1.e Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point.

Existing - Discharges to Simon Avenue  
Proposed - Onsite retention basin

## 2.0 CONTROLS

### 2.a Erosion and Sediment Controls

Silt fencing shall be installed and maintained around the perimeter of the disturbed area of the project. Gravel shall be installed at the entrance/exit of the site to prevent track out. Paved roads shall be swept and kept clear of transported soils. All disturbed areas shall be sodded to prevent erosion and control wind-borne soil transport. Contractor shall have water trucks on-site for dust control. Filter Fabric shall be used to protect all inlets from Filtration.

#### 2.a.1 Permanent and Temporary Stabilization Practices

Contractor shall be responsible for having water truck on-site for temporary stabilization during construction. All disturbed areas are to be sodded upon completion of grading. The contractor is responsible for documenting this portion of the SWPPP.

#### 2.a.2 Structural Practices

Site shall be initially graded to direct runoff to on-site master surface water management system. Silt screens are to be installed and maintained around perimeter of site. No discharge from site permitted until certification of permitted surface water management system.

Temporary: Construct silt fence in accordance with FDOT Index 102.A stabilized construction entrance and soil tracking prevention device shall be installed in accordance with FDOT Index 106. A sediment basin is to be installed as part of the soil tracking prevention plan. All sediment controls shall be in place prior to any soil disturbing activity upstream of the controls.

### 2.b Stormwater Management

Upon certification of surface water management system, the dry detention will be permanent.

### 2.c Other Controls

#### 2.c.1 Waste Disposal

Contractor shall be responsible for the proper disposal and storage of all debris, chemicals, litter, and sanitary waste per local, state and federal guidelines. No discharges are allowed into surface water management system.

### 2.c.2 Offsite vehicle tracking

Gravel to be installed at entrance/exit to minimize transport of soil off of site. Paved roads are to be swept daily.

### 2.c.3 Application rates of all fertilizers, herbicides and pesticides used.

Any fertilizers, herbicides, and pesticides to be used shall be applied per methods and rates recommended by the manufacturers label which must be affixed to or printed directly on the container.

### 2.c.4 Storage, application, generation and migration of all toxic substances.

Contractor is required to properly maintain all vehicles in good working order to prevent leakage. No toxic substances to be stored on site.

## 3.0 MAINTENANCE

3.a all structural and non-structural controls to be visually inspected and repaired on a daily basis by the contractor. These controls are to remain in good and effective operating condition per the approved construction plans and per standard FDOT indexes.

## 4.0 INSPECTION

Contractor is responsible for visually inspecting silt fences, perimeter berms, and entrance/exit controls on a daily basis. A more thorough inspection of all structural and non-structural controls shall occur at least once per week and within 24 hours of the end of a storm that is 0.50 inches or greater.

## 5.0 NON-STORMWATER DISCHARGES

None

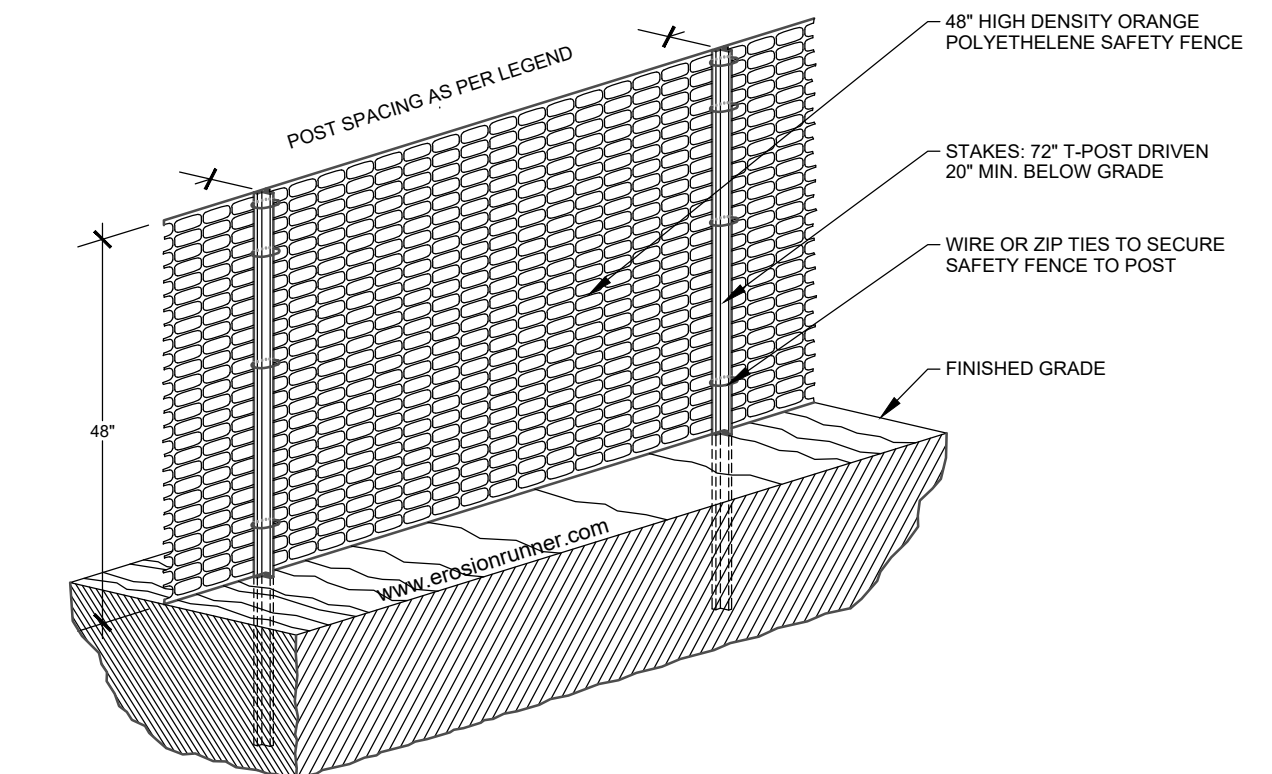
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## Sensitive Area/Tree Protection

### 48" Safety Fence, 72" T-Posts

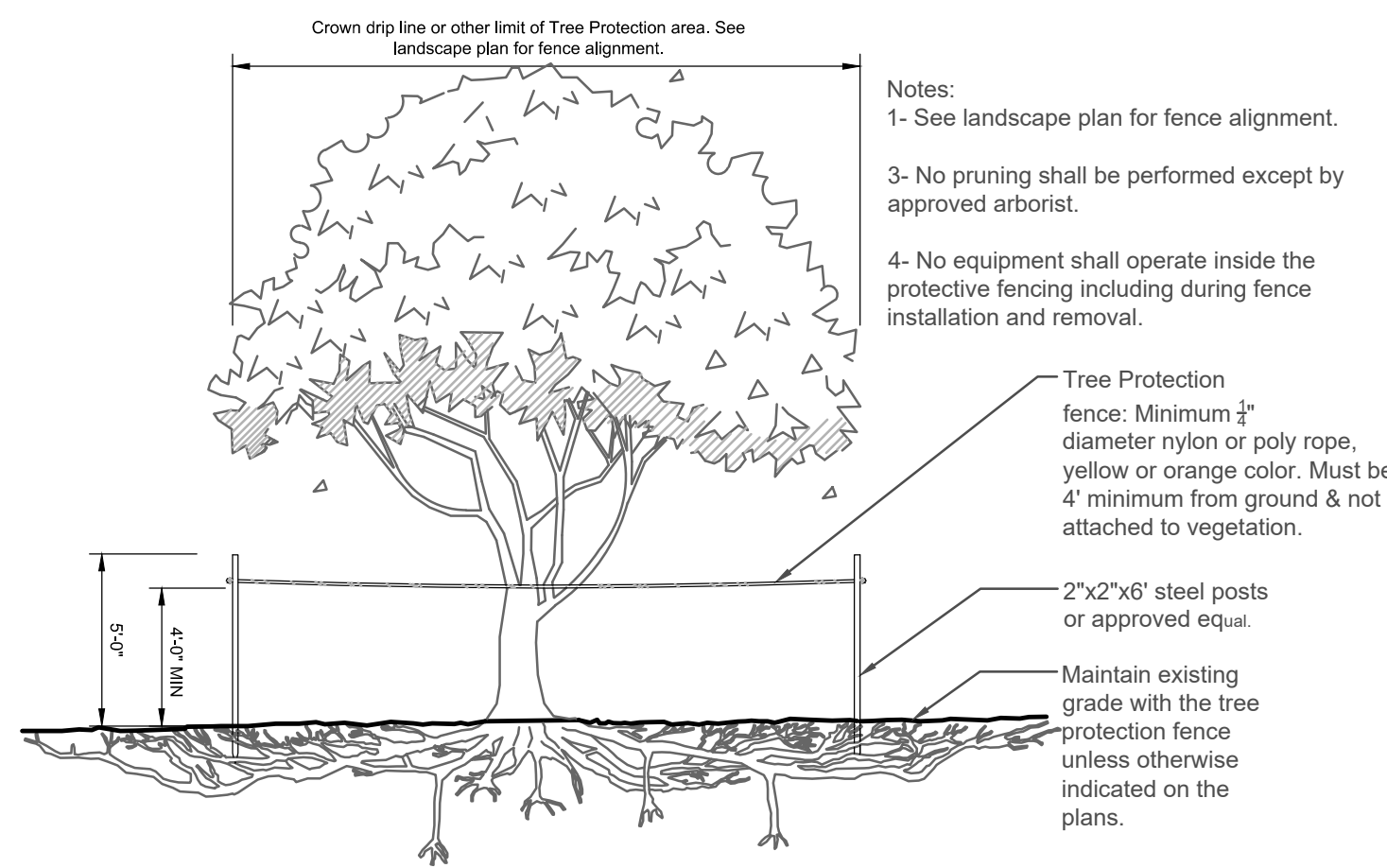
LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C.
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C.
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

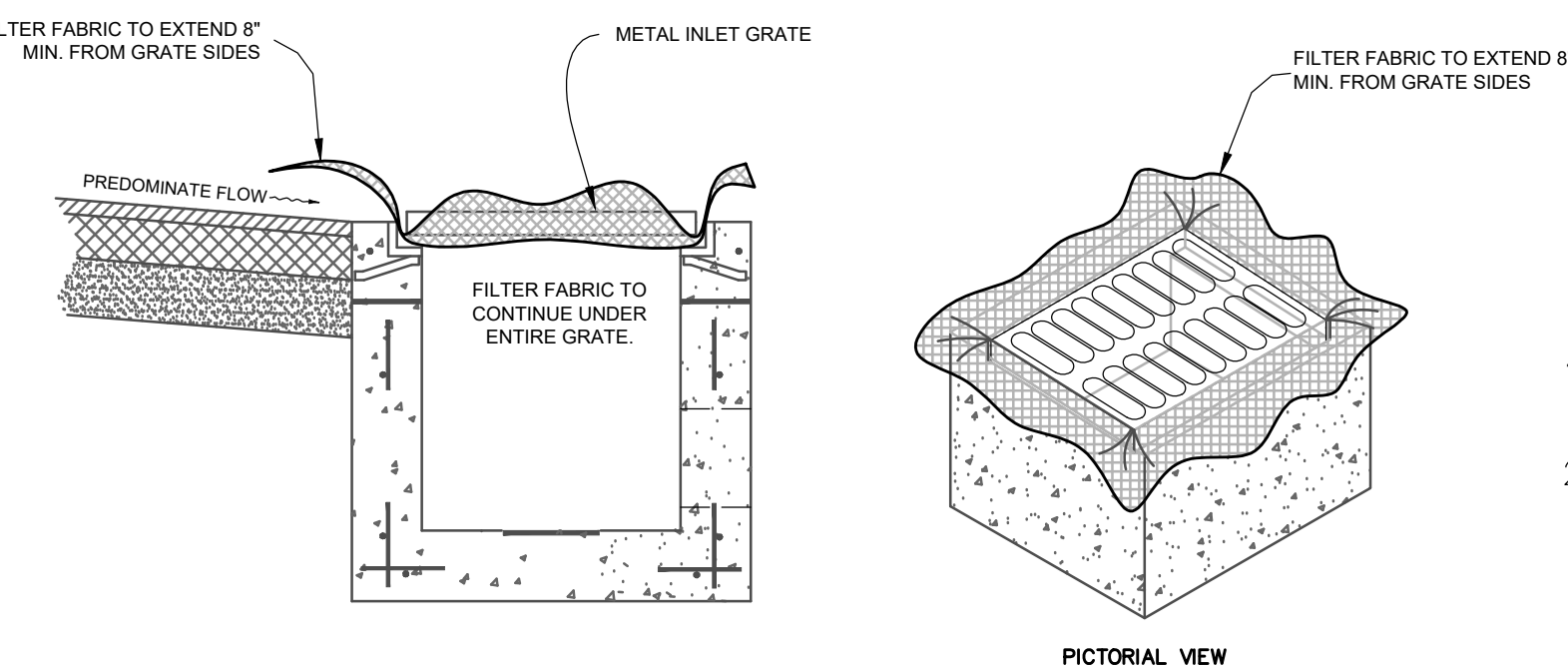


1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION. ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

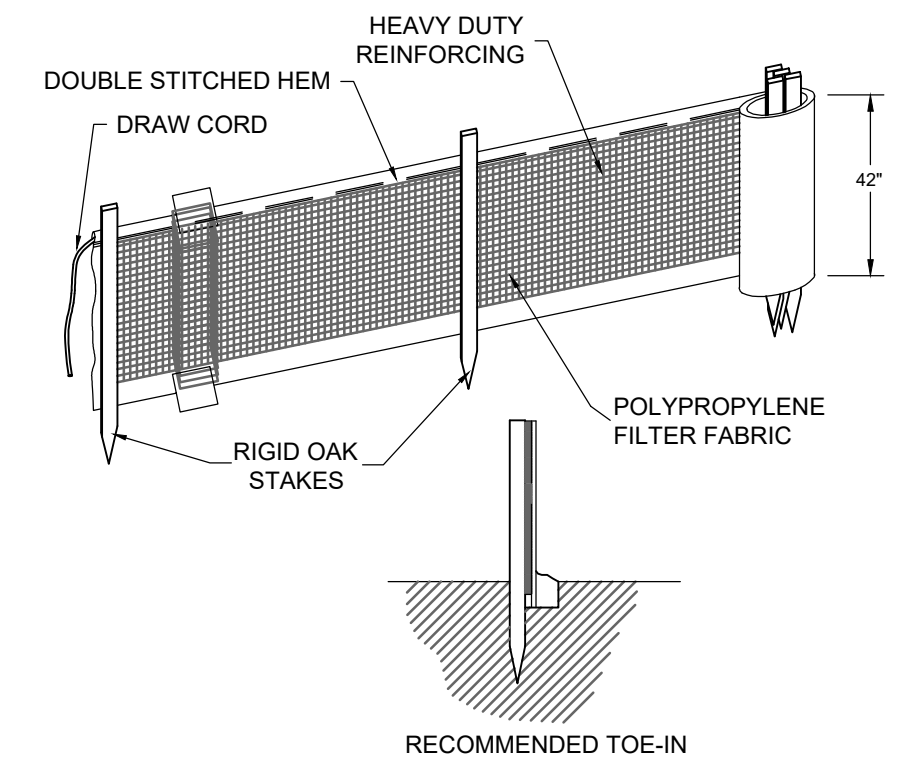
PREPARED BY: MARCI D. CHANDLER  
 FL PE #63034  
 1030 HAAS ROAD  
 APOPKA, FL 32712  
 407-866-9530  
 SCALE: N/A  
 SHEET SCALE: 1" = 10'-0" (VERTICAL)  
 BAR IS ONE-HALF INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.  
 SUBMITTALS: CONSTRUCTION/REV. REVISIONS:  
 CLIENT: GCC  
 PROJECT: GCC APOPKA, FL  
 TITLE: SWPPP DETAILS  
 DRAWN BY: JRM  
 ENGINEER: MDC  
 DATE: JULY 2025  
 ISSUED FOR: CONSTRUCTION  
 SWPPP DETAILS  
 C-04



TREE PROTECTION BARRICADE (NTS)

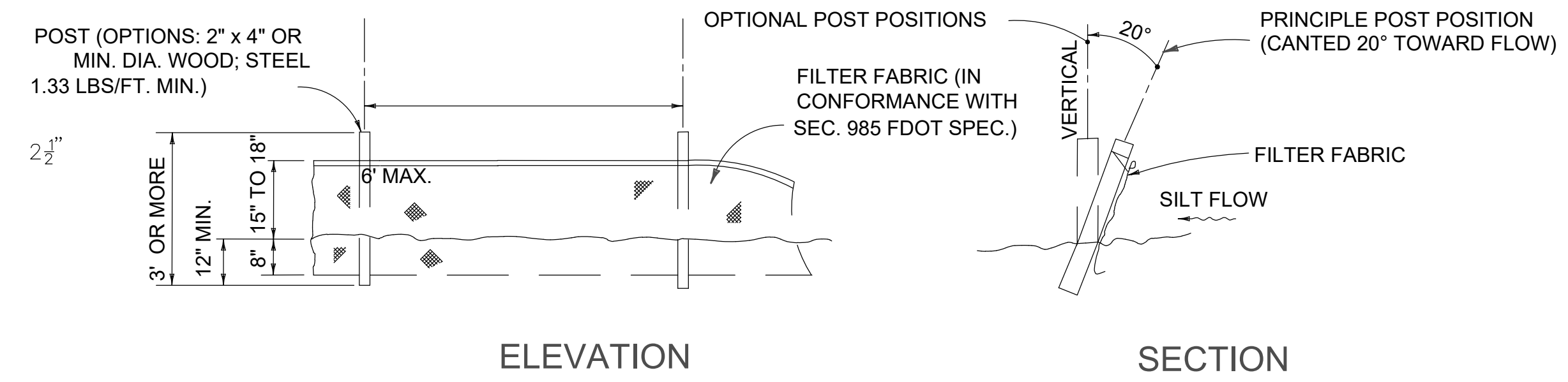


- GENERAL NOTES**
1. THIS INLET IS DESIGNED WITH FILTER FABRIC PROTRUDING 8" FROM SIDES FOR GRIPPING WHEN SEDIMENT NEEDS TO BE CLEARED AFTER FINAL CONSTRUCTION.
  2. FILTER FABRIC TO BE INSTALLED AND TRIMMED BEFORE GRATE IS INSET.
- FILTER FABRIC DETAIL

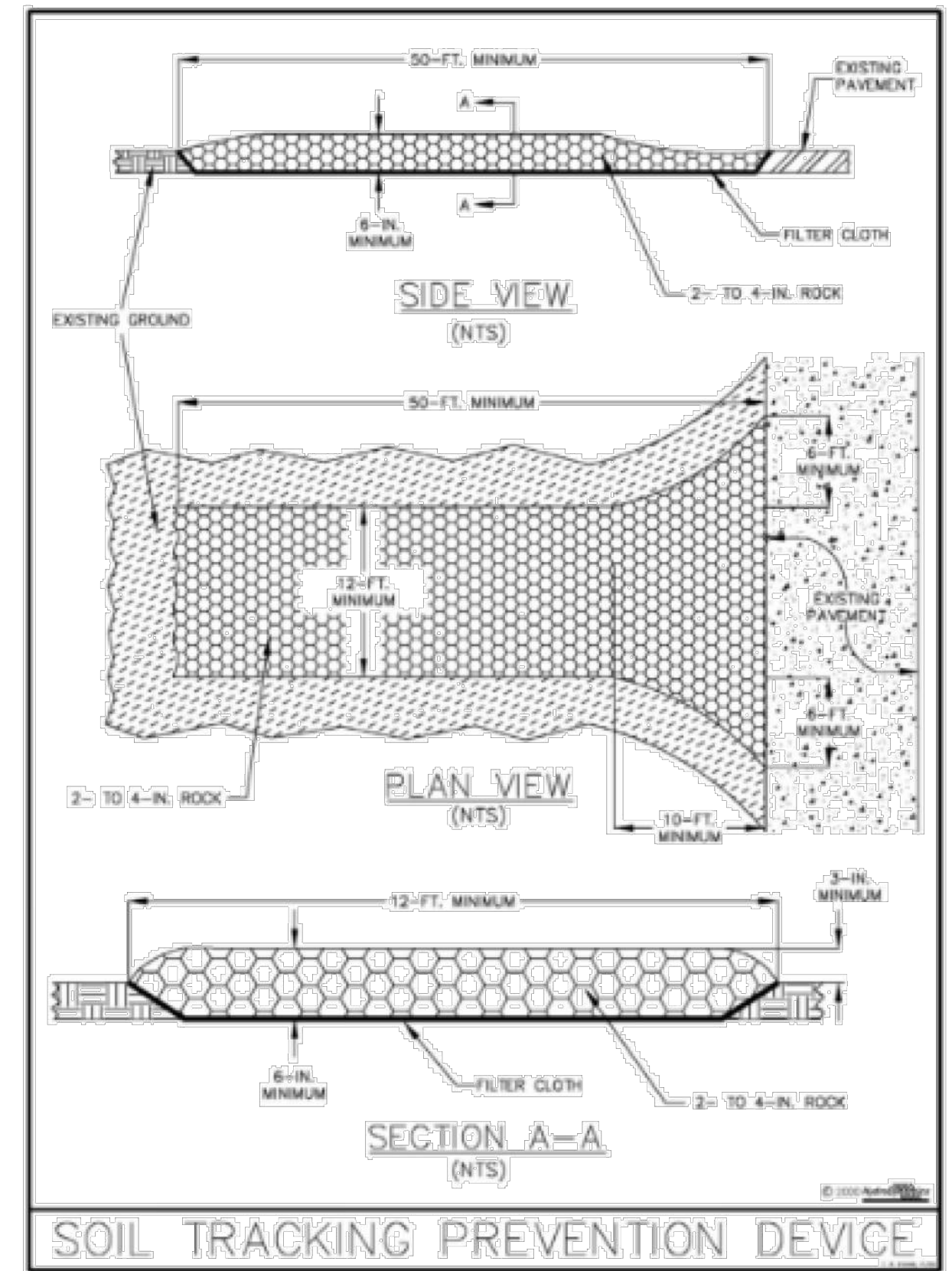


- NOTES:**
1. SILT FENCE SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE.
  2. THE CONTRACTOR SHALL INSPECT AND REPAIR THE SILT FENCE AFTER EACH RAIN EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  3. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFFSITE AND CAN BE PERMANENTLY STABILIZED.
  4. THE SILT FENCE SHALL BE PLACED ON SLOPE CONTOUR TO MAXIMIZE ITS PONDING EFFICIENCY.

SILT FENCE DETAIL



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STACKED SILT FENCE (LF).

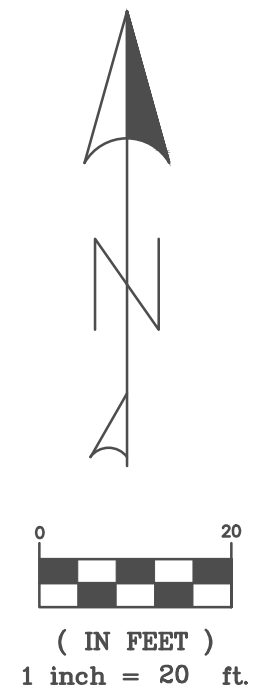
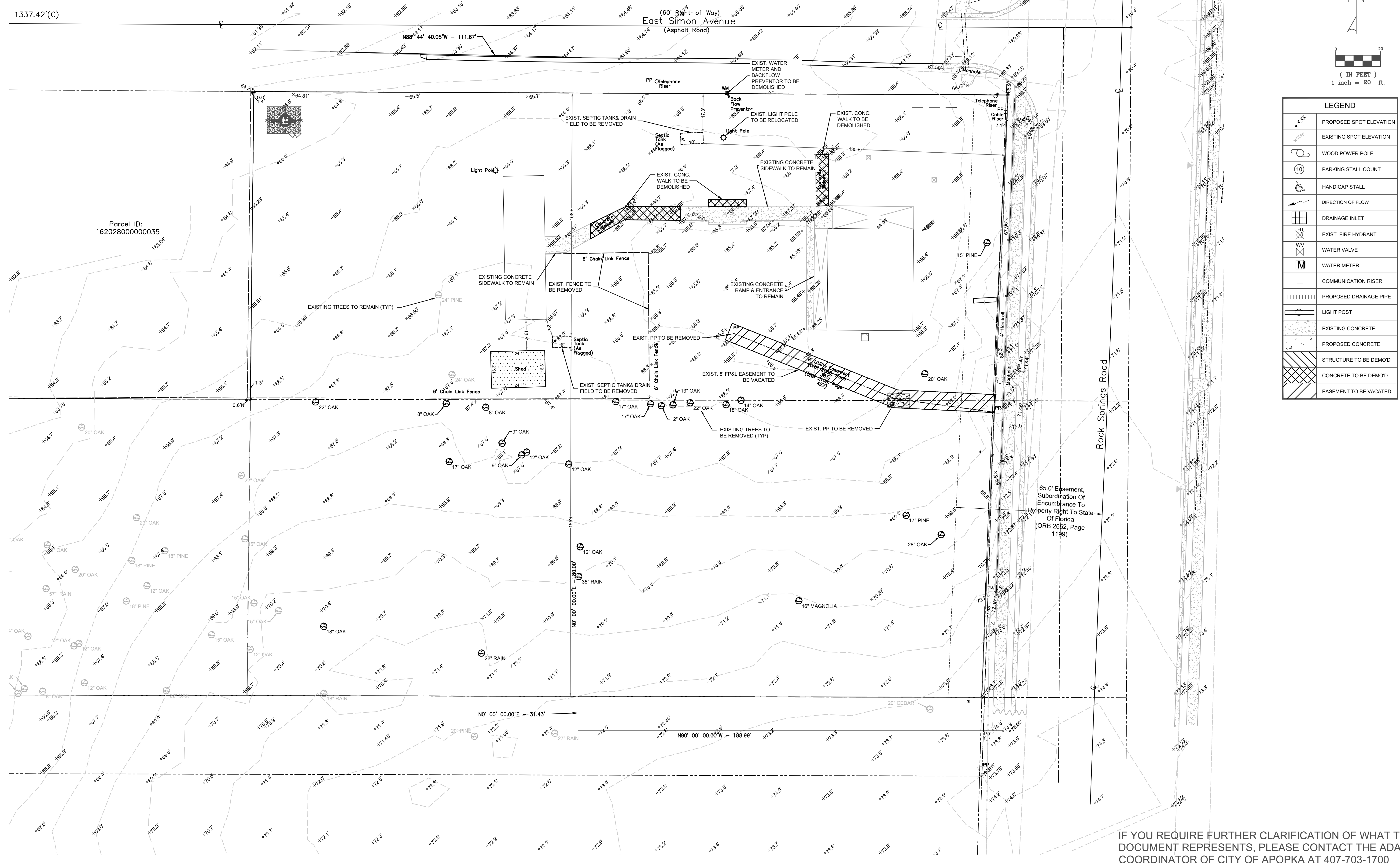


IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

1337.42'(C)

(60' Right-of-Way)  
East Simon Avenue  
(Asphalt Road)

Parcel ID:  
162028000000035



LEGEND	
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	WOOD POWER POLE
	PARKING STALL COUNT
	HANDICAP STALL
	DIRECTION OF FLOW
	DRAINAGE INLET
	EXIST. FIRE HYDRANT
	WATER VALVE
	WATER METER
	COMMUNICATION RISER
	PROPOSED DRAINAGE PIPE
	LIGHT POST
	EXISTING CONCRETE
	PROPOSED CONCRETE
	STRUCTURE TO BE DEMOD
	CONCRETE TO BE DEMOD
	EASEMENT TO BE VACATED

This plan has been digitally signed and sealed by  
 Marc D. Chandler on the date apparent to the seal.  
 Signature must be verified on any electronic copies.

PREPARED BY:  
 MARCI D. CHANDLER  
 FL PE #63034  
 1030 HAAS ROAD  
 APOPKA, FL 32712  
 407-866-9530

SCALE: 1" = 20'  
 SHEET SCALE  
 BAR IS ONE-HALF INCH ON  
 ORIGINAL DRAWING  
 IF NOT ONE INCH ON  
 THIS SHEET, ADJUST  
 SCALES ACCORDINGLY.

CONSTRUCTION/GRID REVISIONS

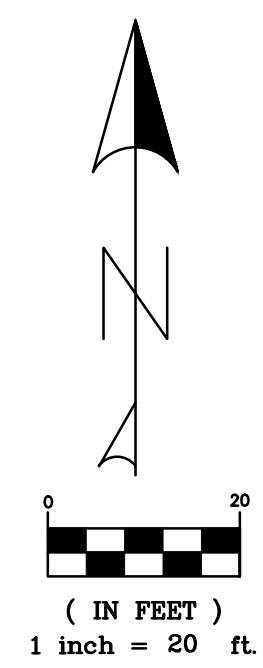
CLIENT: GCC  
 PROJECT: GCC  
 APOPKA, FL  
 TITLE: DEMOLITION PLAN

DRAWN BY: JRM  
 ENGINEER: MDC  
 DATE: JULY 2025  
 ISSUED FOR: CONSTRUCTION

**DEMOLITION PLAN**  
**C-05**

IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

FEMA#: 120995C0110H  
 PANEL #: 0110H  
 FLOOD ZONE: X



This item has been digitally signed and sealed by:  
 Marc D Chandler on the date adjacent to the seal.  
 Signature must be verified on any electronic copies.

**SITE DATA**

**PROPERTY DATA**

**LEGAL DESCRIPTION:**

A PORTION OF LAND IN SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS: THE SOUTH 1/2 OF THE NORTH 1/4 OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS ROAD RIGHT-OF-WAY AND LESS THE WEST 1/2 ACRE THEREOF. AND THE WEST 480 FEET OF THE EAST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/4 OF THE NE 1/4 OF THE SE 1/4 SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET FOR THE ROAD, LESS AND EXCEPT THE WEST 120 FEET OF THE WEST 480 FEET OF THE EAST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/4, OF THE NE 1/4 OF THE SE 1/4, SECTION 16, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET FOR THE ROAD. ALSO LESS AND EXCEPT THAT PORTION THEREOF AS CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY FINAL JUDGMENT RECORDED IN OFFICIAL RECORDS BOOK 2804, PAGE 596, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LESS THE WEST 400 FEET AND THE SOUTH 35 FEET THEREOF. SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF APOPKA, ORANGE COUNTY, FLORIDA, CONTAINING 137,532 SQUARE FEET OR 3.164 ACRES, MORE OR LESS.

**SECTION 16, TOWNSHIP 20S, RANGE 28E**

PROPERTY SIZE: 3.16 AC  
 PROJECT AREA: 2.04 AC  
 FUTURE LAND USE: LDR - LOW DENSITY RESIDENTIAL  
 ZONING: RCE - RESIDENTIAL COUNTRY ESTATE DISTRICT  
 PARCEL ID: 16-20-28-0000-00-022  
 ADDRESS: 4490 ROCK SPRINGS RD, APOPKA, FL 32712  
 INTENDED USE: WORSHIP ASSEMBLY

**BUILDING DATA**

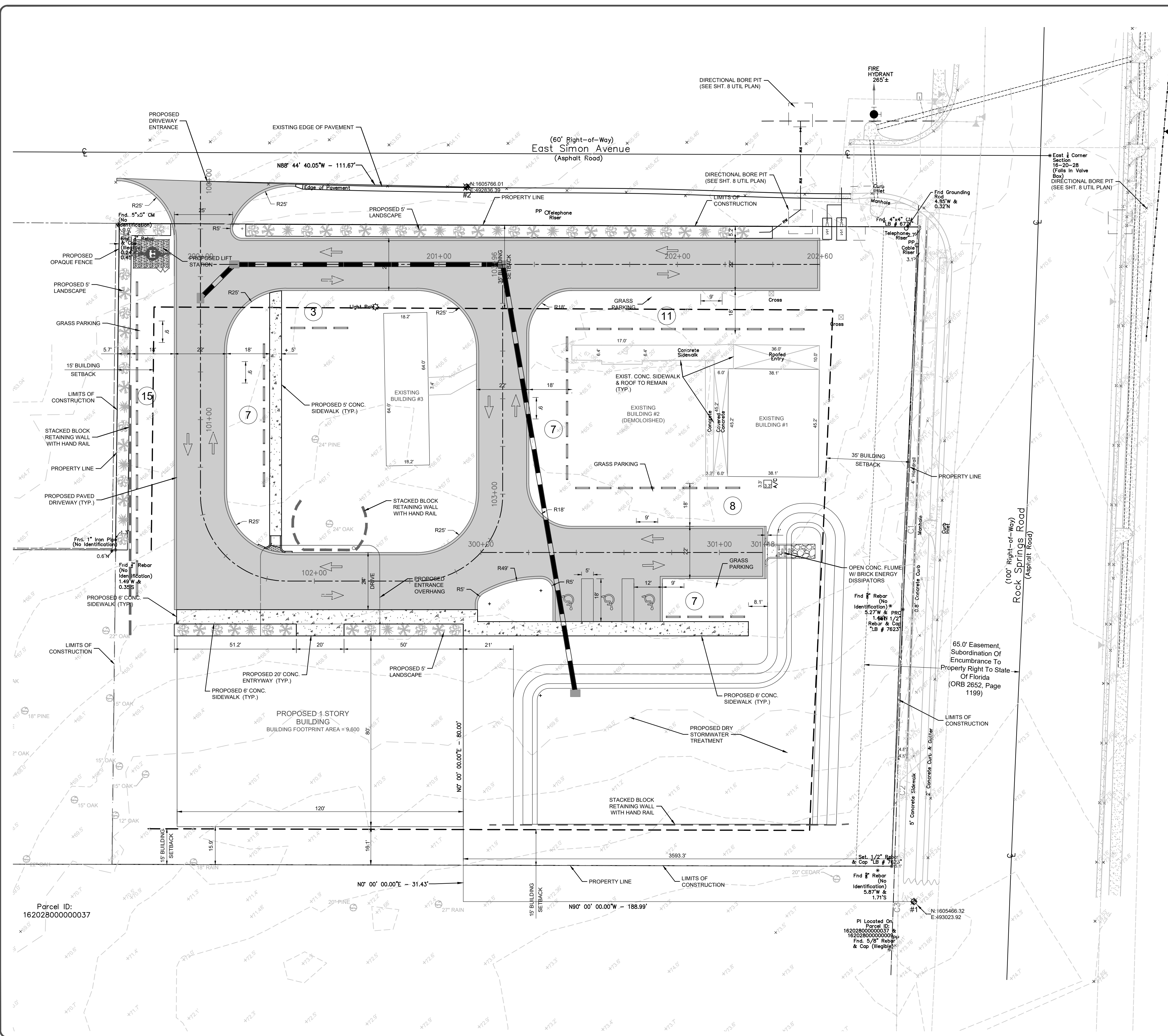
**BUILDING SETBACKS**  
 ZONING: 35'  
 CORNER: 35'  
 SIDE: 15'  
 REAR: 15'  
**BUILDING HEIGHT**  
 PROPOSED: 35'  
 MAXIMUM ALLOWED: 35'  
**EXISTING BUILDING #1 (TO REMAIN)**  
 GROSS AREA: 1,722 SF  
 NUMBER OF STORIES: 1  
 USE: COMMUNITY CENTER FACILITY, 3 PARKING SPACES PER 1,000 SF = 6 SPACES  
**EXISTING BUILDING #2 (PREVIOUSLY DEMOLISHED)**  
 GROSS AREA: 2,891 SF  
 NUMBER OF STORIES: 1  
 USE: N/A  
**EXISTING BUILDING #3 (TO REMAIN)**  
 GROSS AREA: 1,165 SF  
 NUMBER OF STORIES: 1  
 USE: COMMUNITY CENTER FACILITY, 3 PARKING SPACES PER 1,000 SF = 4 SPACES  
**ACCESSORY BUILDINGS (2 TO REMAIN)**  
 GROSS AREA: 417 SF  
 USE: STORAGE  
**FUTURE WORSHIP CENTER:**  
 GROSS AREA: 9,600 SF  
 NUMBER OF STORIES: 1  
 USE: 200 SEAT WORSHIP CENTER, 1 PARKING SPACE PER 5 SEATS = 40 SPACES  
 400 SF OFFICE, 2 PARKING SPACES PER 1,000 SF = 2 SPACES  
 2,000 SF COMMUNITY CENTER FACILITY, 3 PARKING SPACES PER 1,000 SF = 6 SPACES

**PARKING DATA**

TOTAL SPACES REQUIRED = 58 SPACES  
 TOTAL SPACES PROPOSED = 58 SPACES  
 HANDICAP SPACES REQUIRED = 0 SPACES  
 HANDICAP SPACES PROPOSED = 3 SPACES

**IMPERVIOUS/PERVIOUS DATA**

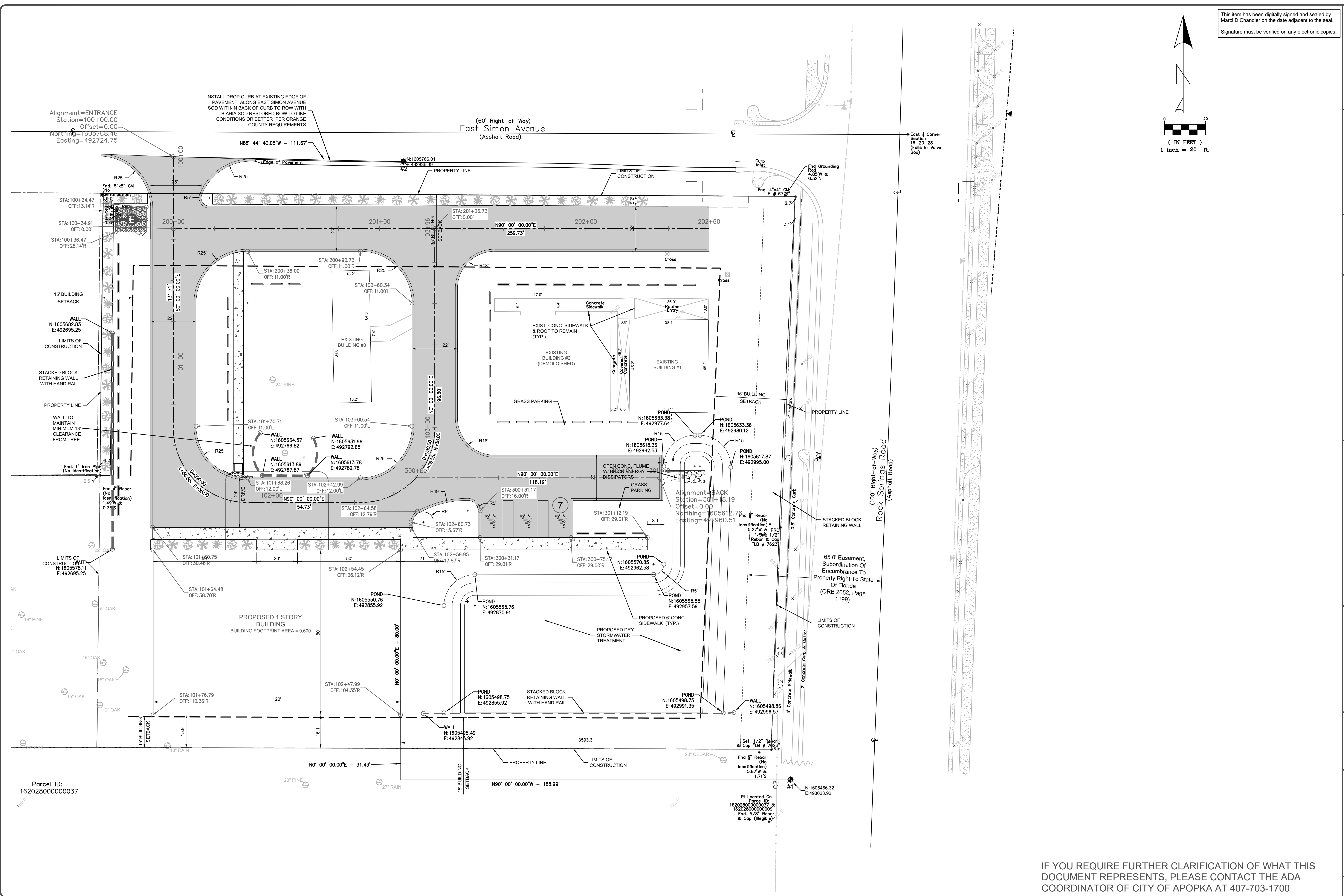
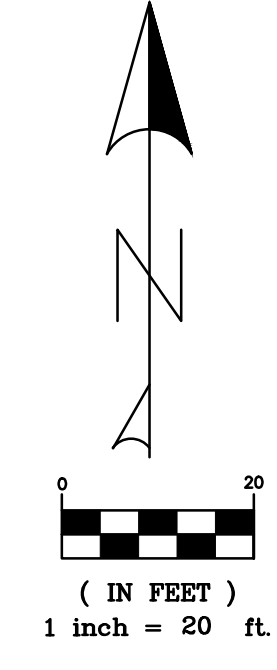
TOTAL SITE AREA:	137,650 SF	3.16 AC	100%
PROJECT AREA:	88,986 SF	2.04 AC	64.64%
IMPERVIOUS			
PAVING	29,222 SF	0.671 AC	21.23%
SIDEWALK & PADS	2,685 SF	0.062 AC	1.95%
BUILDINGS:			
EXISTING:	2,885 SF	0.066 AC	2.10%
PROPOSED:	9,600 SF	0.220 AC	6.97%
RETENTION:	14,909 SF	0.342 AC	10.83%
TOTAL IMPERVIOUS	60,859 SF	1.140 AC	44.21%
PERVIOUS			
OPEN SPACE:	28,127 SF	0.646 AC	20.43%



IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

PREPARED BY: <b>MARCI D. CHANDLER</b> FL PE #63034 1030 HAAS ROAD APOPKA, FL 32712 407-866-9530	SCALE: 1" = 20' VERIFY SCALE BAR IS ONE-HALF INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	SUBMITTALS: GCC GCC APOPKA, FL SITE PLAN	CLIENT: JRM MDC DATE: JULY 2025 ISSUED FOR: CONSTRUCTION
SITE PLAN			
C-06			

This item has been digitally signed and sealed by Marci D Chandler on the date adjacent to the seal. Signature must be verified on any electronic copies.

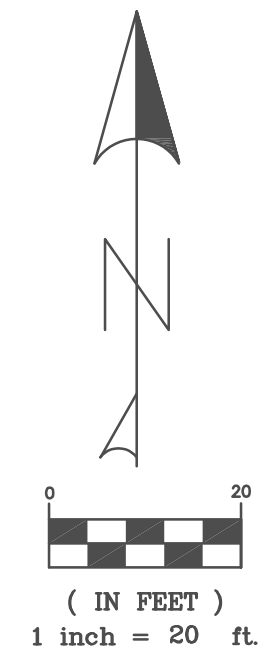


Parcel ID:  
162028000000037

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SIGNATURE & SEAL	
PREPARED BY:	MARCI D. CHANDLER FL PE #63034 1030 HAAS ROAD APOPKA, FL 32712 407-866-9530
SCALE:	1" = 20' SHEET SCALE BAR IS ONE-HALF INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CONSTRUCTION/GRID REVISIONS	
SUBMITTALS	
CLIENT:	GCC
PROJECT:	GCC APOPKA, FL
TITLE:	HORIZONTAL CONTROL PLAN
CONSTRUCTION	
DRAWN BY:	JRM
ENGINEER:	MDC
DATE:	JULY 2025
ISSUED FOR:	CONSTRUCTION
<b>HORIZONTAL CONTROL PLAN</b> <b>C-07</b>	

FEMA#: 120995C0110H  
 PANEL #: 0110H  
 FLOOD ZONE: X



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PREPARED BY: MARCI D. CHANDLER  
 FL PE #63034  
 1030 HAAS ROAD  
 APOPKA, FL 32712  
 407-866-9530

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CONSTRUCTION/GRID REVISIONS:

SUBMITTALS:

CLIENT: GCC

PROJECT: GCC

APOPKA, FL

TITLE: PAVING, GRADING &

CONSTRUCTION

ISSUED FOR:

DATE: MARCH 2025

ENGINEER: MDC

DRAWN BY: JRM

CLIENT: GCC

PROJECT: GCC

APOPKA, FL

TITLE: PAVING, GRADING &

CONSTRUCTION

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PROJECT: GCC

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APOPKA, FL

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APOPKA, FL

TITLE: PAVING, GRADING &

CONSTRUCTION

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DATE: MARCH 2025

ENGINEER: MDC

DRAWN BY: JRM

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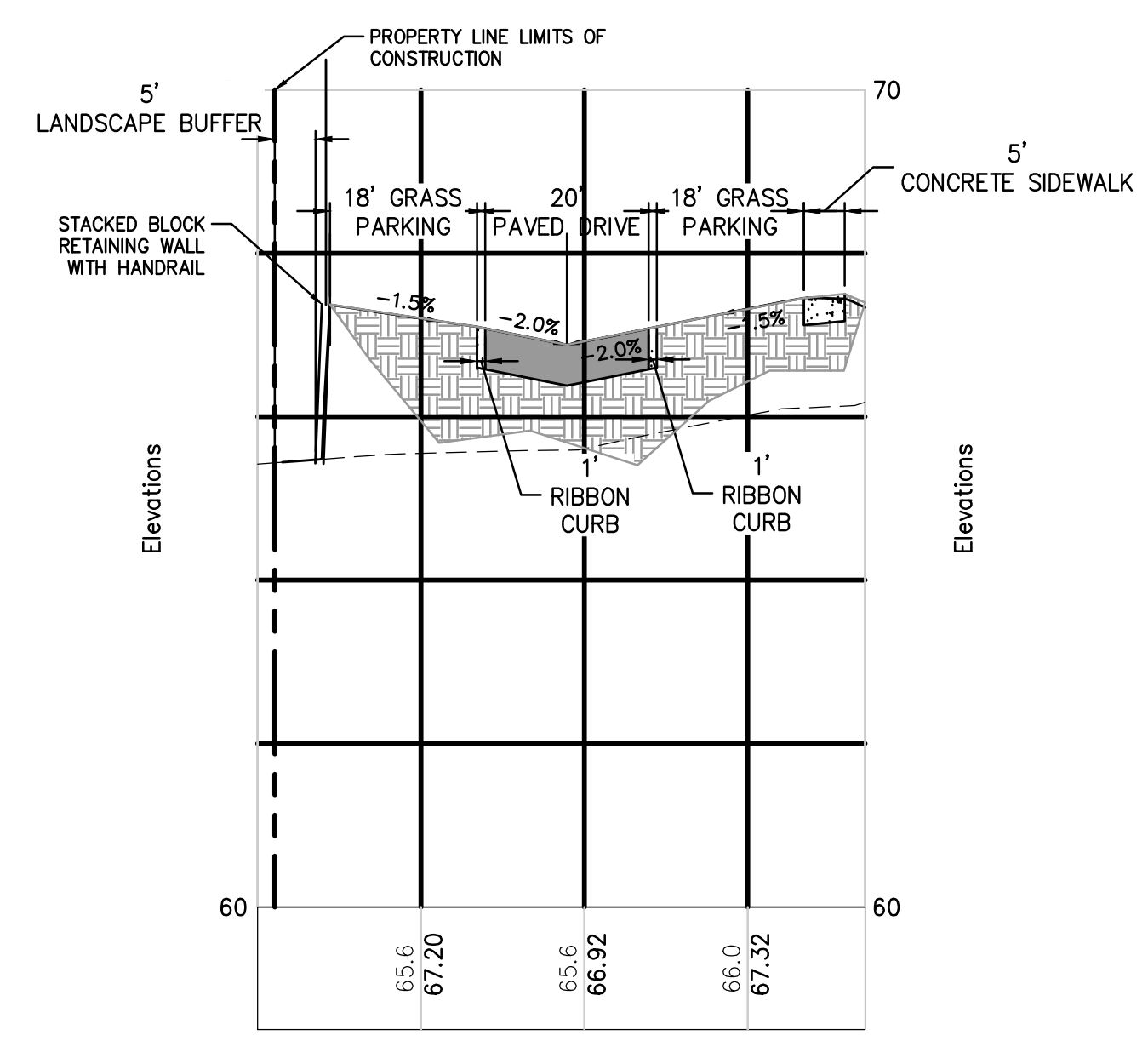
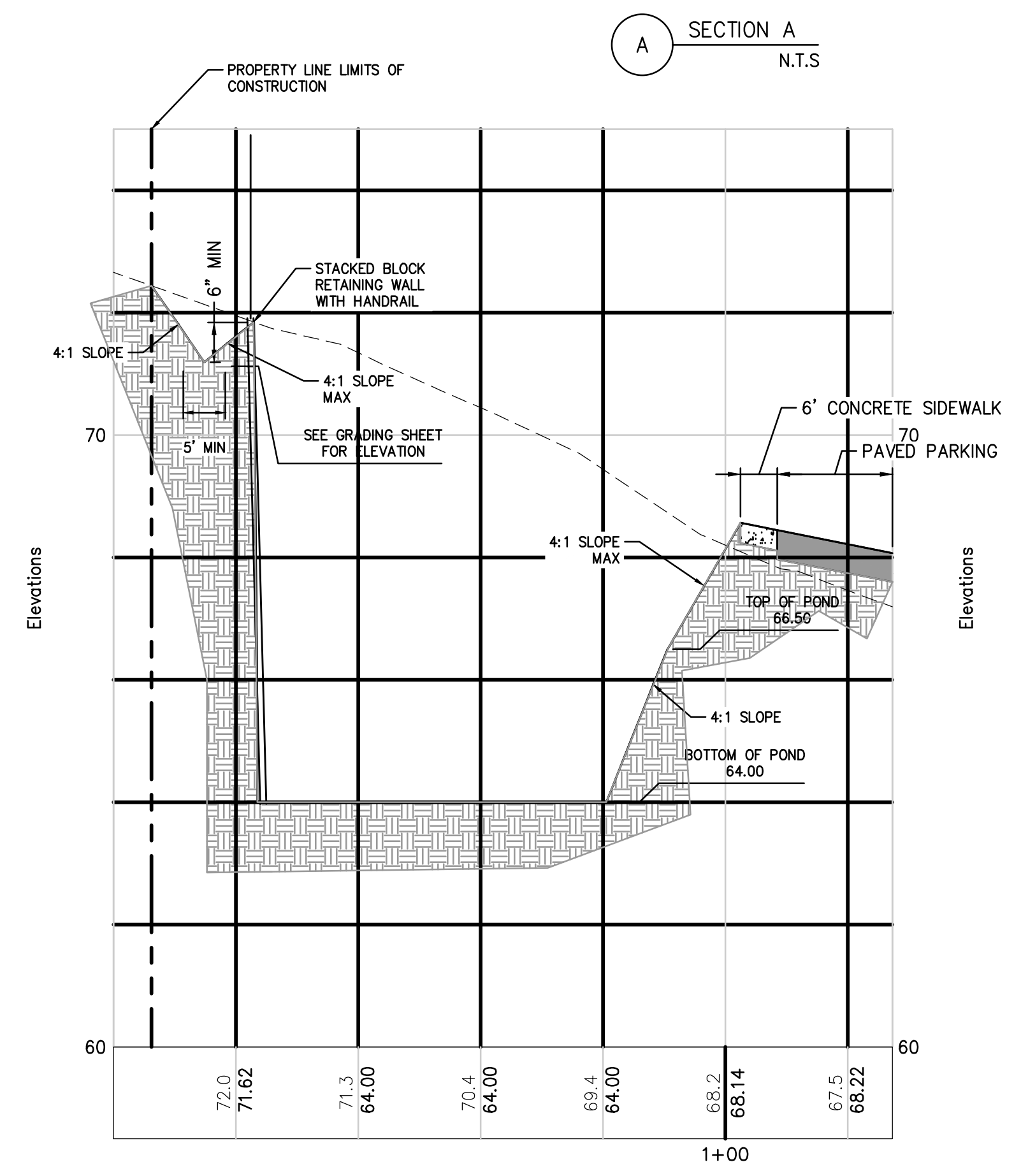
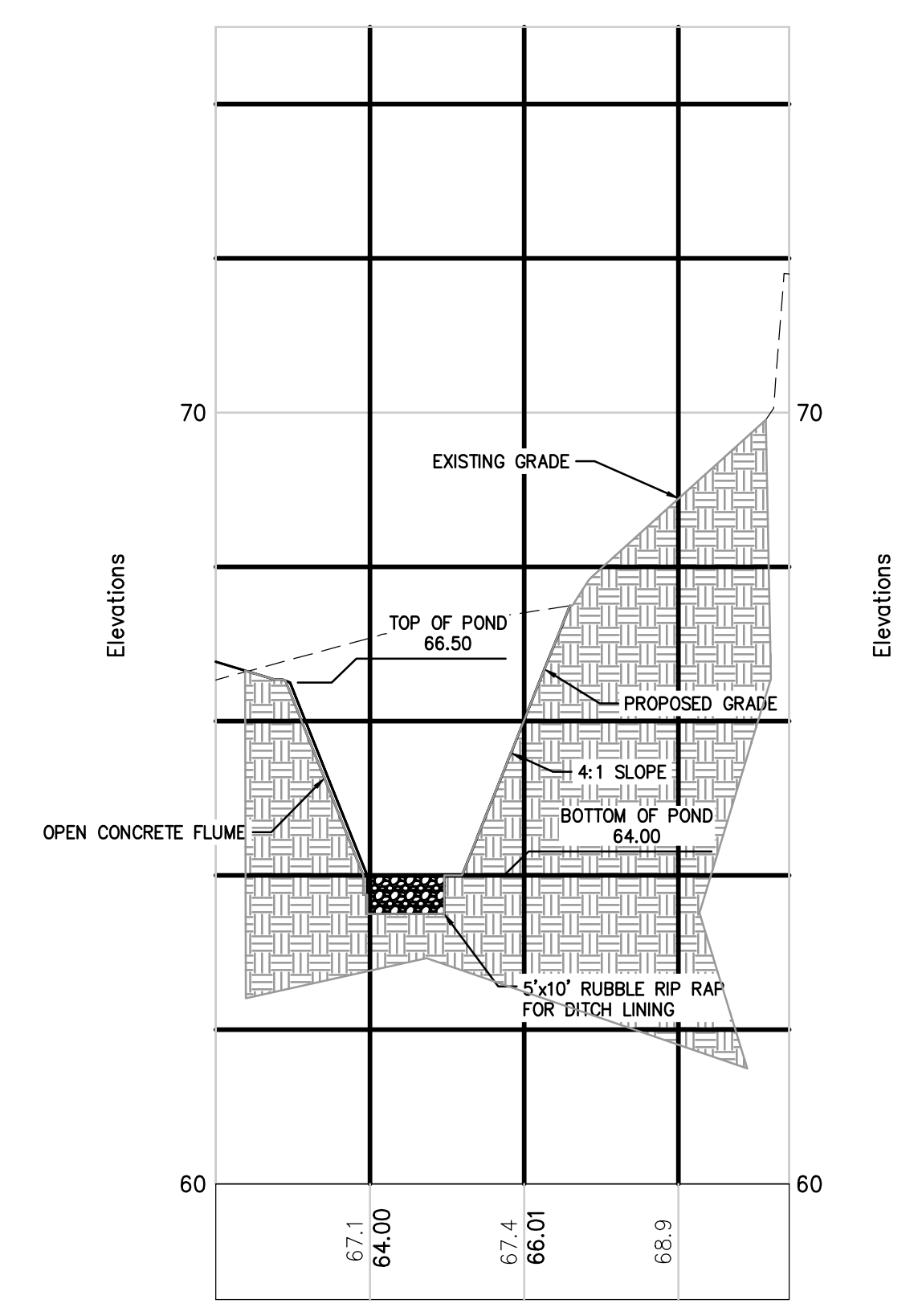
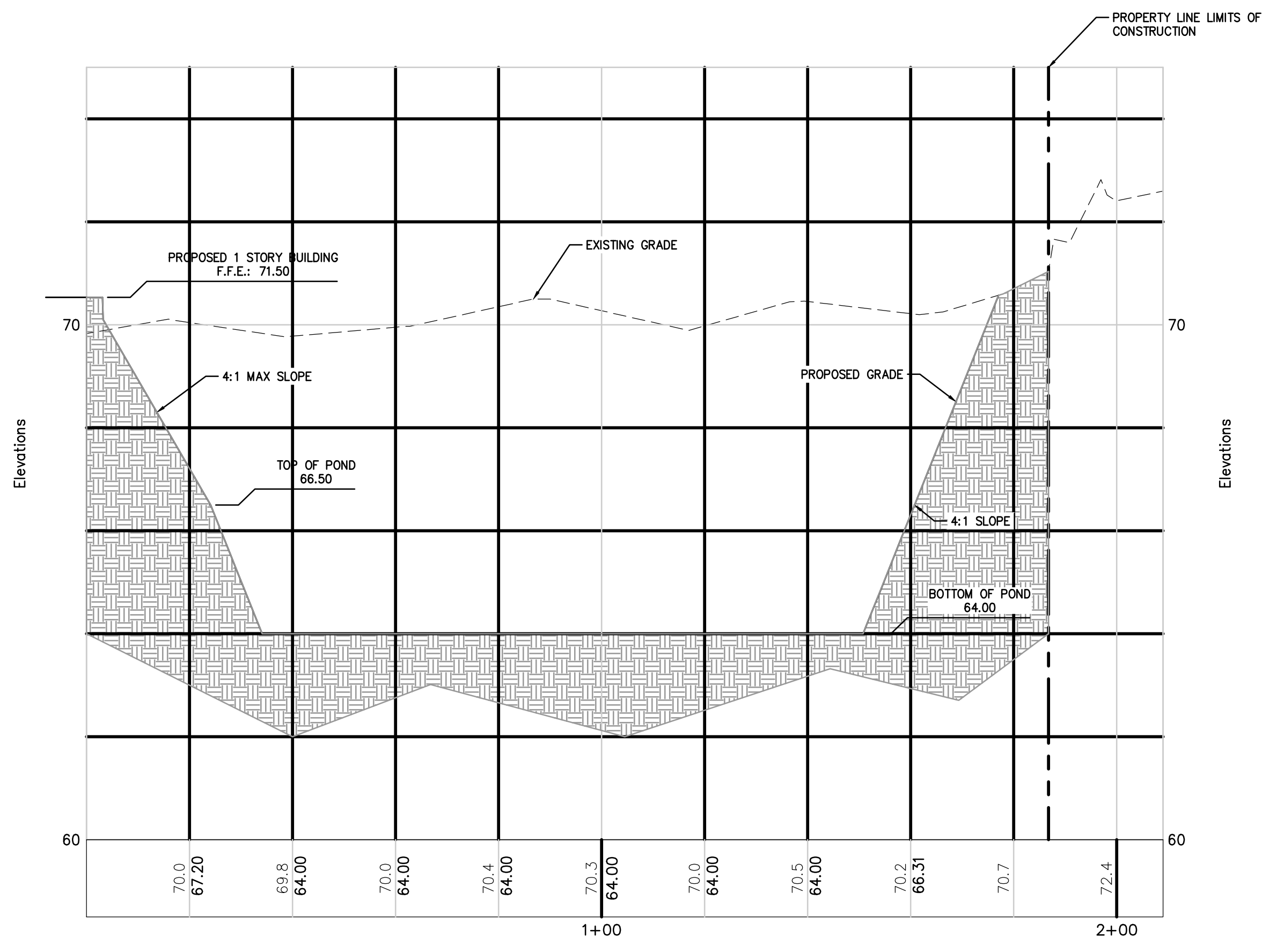
APOPKA, FL

TITLE: PAVING, GRADING &

CONSTRUCTION

ISSUED FOR:

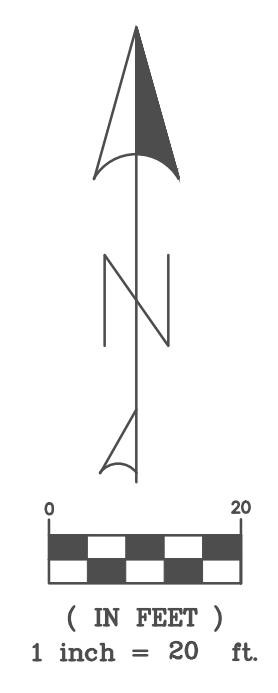
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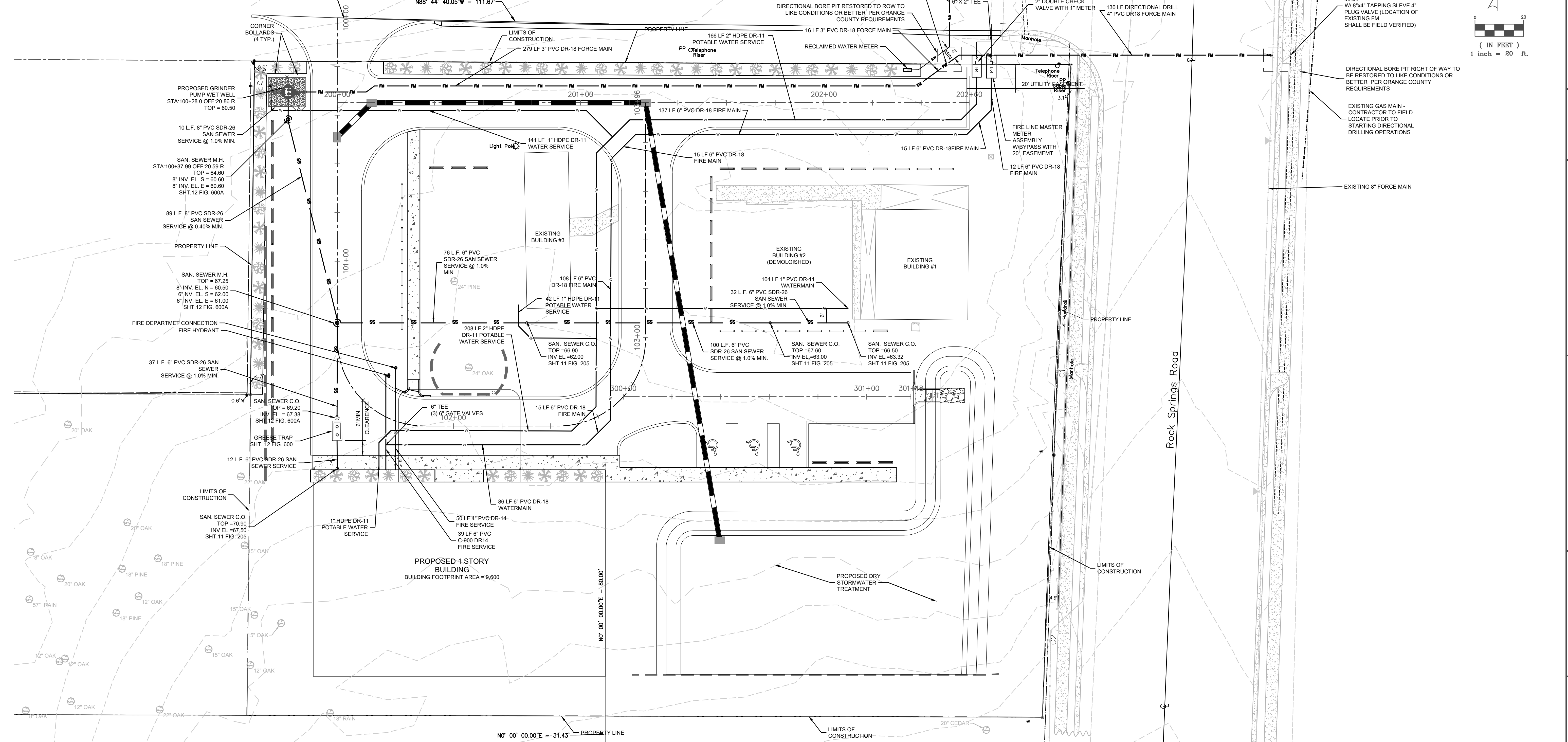
PREPARED BY: MARCI D. CHANDLER FL PE #63034 1030 HAAS ROAD APOPKA, FL 32712 407-866-9530	
SCALE: 1" = 20' VERIFY SCALE BAR IS ONE-HALF INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	SIGNATURE & SEAL:
SUBMITTALS:	
CLIENT: GCC	PROJECT: GCC
DRAWN BY: JRM	PRODUCT: APOPKA, FL
ENGINEER: MDC	TITLE: SECTION VIEWS
DATE: MARCH 2025	ISSUED FOR: CONSTRUCTION
<b>SECTION VIEWS</b>	
<b>C-09</b>	

This item has been digitally signed and sealed by Marci D Chandler on the date adjacent to the seal. Signature must be verified on any electronic copies.



1:42'(C)

(60' Right-of-Way)  
East Simon Avenue  
(Asphalt Road)



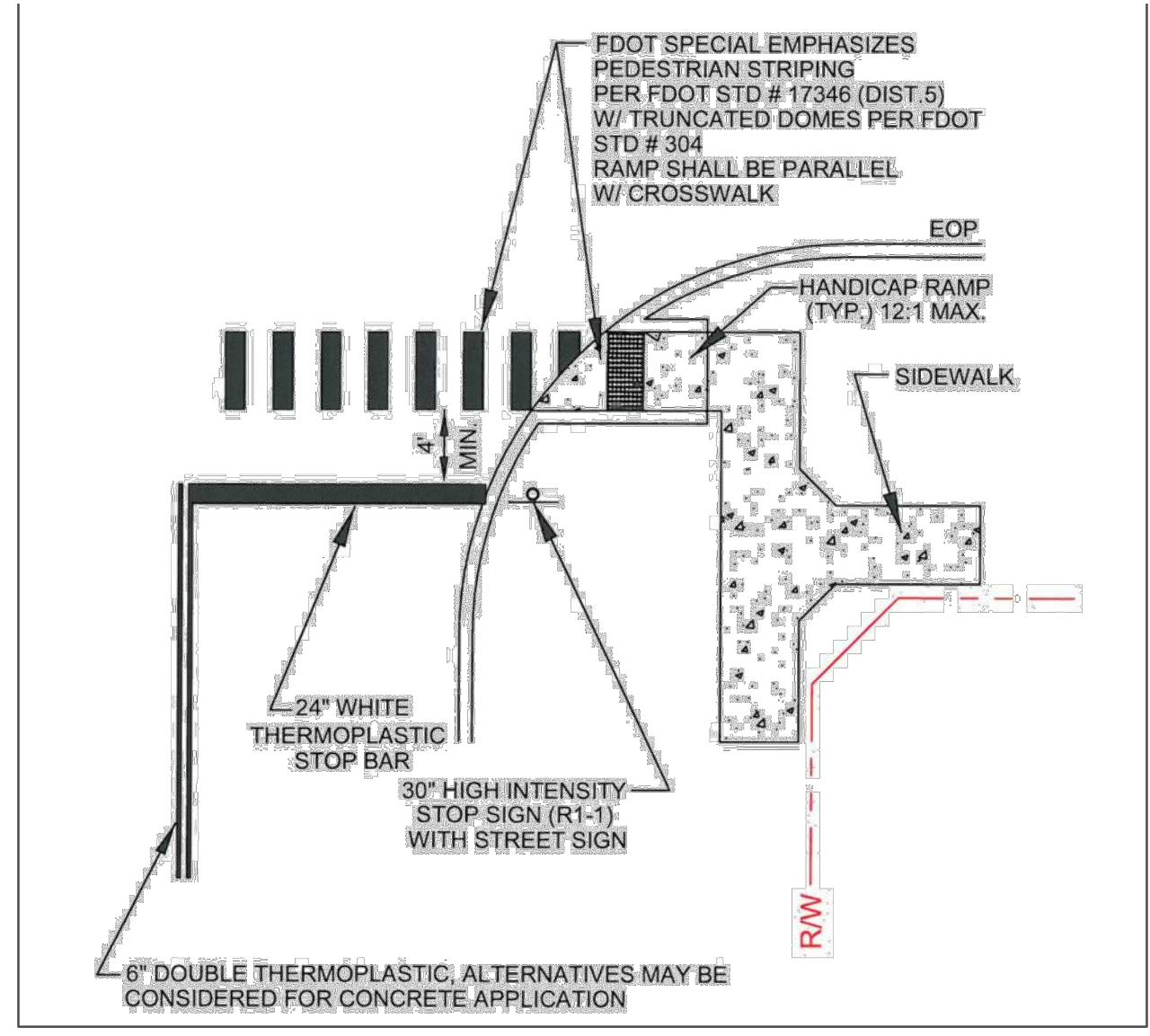
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PREPARED BY: MARCI D. CHANDLER FL PE #63034 1030 HAAS ROAD APOPKA, FL 32712 407-866-9530	
SCALE: 1" = 20' VERIFY SCALE BAR IS ONE-HALF INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	SUBMITTALS:
CLIENT: GCC	PROJECT: GCC APOPKA, FL
DRAWN BY: JRM ENGINEER: MDC DATE: JULY 2025 ISSUED FOR: CONSTRUCTION	TITLE: UTILITY PLAN
<b>UTILITY PLAN</b>	
<b>C-10</b>	

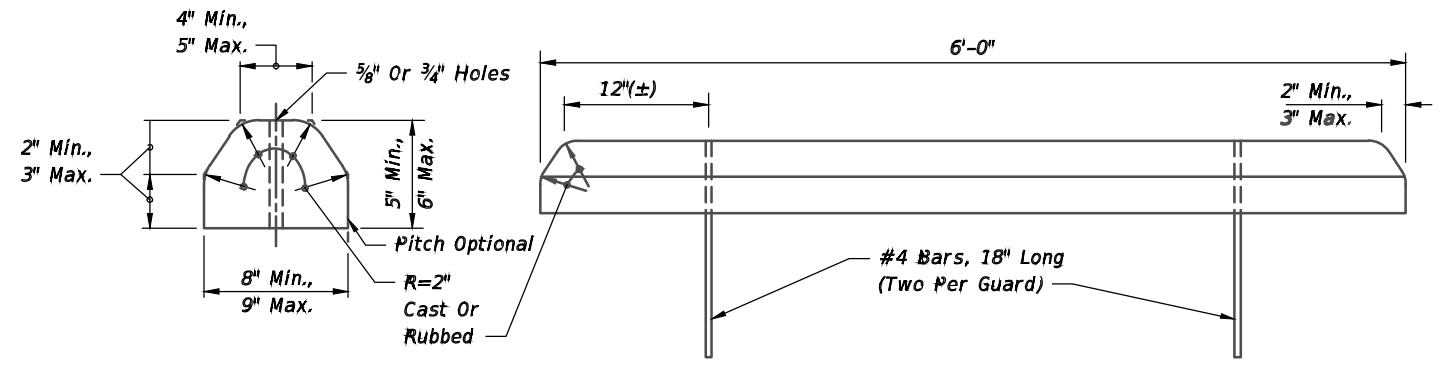
**GENERAL NOTES**

- Governing standards and specifications on this project are contained in the Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction (2013 Edition), FDOT Standard Specifications for Road and Bridge Construction (2013 Edition), and City of Apopka Utilities Design and Construction Standards Manual (2014 Edition).
- All proposed work, except that located within the public right-of-way (not retained by the property owner), shall be removed by the Contractor as necessary to construct the project in accordance with the Construction Plans. All materials shall be removed to the Contractor in accordance with FDOT Index No. 312.
- The disposal of excess materials, materials, and equipment shall be the responsibility of the Contractor. Approval of disposal sites shall be obtained from the City of Apopka prior to disposal.
- All existing trees and structures within the right-of-way and of the project are to be removed or retained as shown on the Construction Plans, unless otherwise indicated.
- All pavement efforts shown are to the proposed condition of construction, as when radium dimensions are in the edge of pavement, unless otherwise noted.
- Tarment locations and widths shown in the Construction Plans are approximate and may be adjusted as necessary or directed by the Engineer. All tarment shall be constructed in accordance with FDOT Index No. 315.
- The various permits included in the bid specifications are included in the bid price for Section 104. The Contractor shall perform his work in accordance with the requirements of the Florida, State, and Federal "Permit" regulations, including those specified elsewhere. Environmental control shall be used at locations designated in the plan and/or designated by the Engineer.
- The information shown on these drawings concerning type and location of underground and other utilities is based on available records and surveys, but is not guaranteed to be accurate or all inclusive. The Contractor shall make his own determination as to the type and location of utilities as they are necessary to avoid damage thereto, and is responsible for coordinating utility relocation.
- Protections to existing structures, the Contractor shall determine if damage utility conflict exist. Information about possible conflicts shall be submitted to the Engineer as soon as possible after discovery of such conflicts.
- The Contractor shall notify all gas utility companies a minimum of two working days prior to excavation as required by Chapter 71-51 of the Florida Statutes.
- All electric, gas, and other utilities shall be located with non-metallic pipes, covered with an asphaltic mastic coating, and wrapped with a filter fabric material per Section 13.03.03 of the Orange County Road Construction Specifications.
- All curb inlets, ditch bottom inlets, and manholes shall have traffic bearing frames and covers or grates meeting ASSESSMENT loading requirements.
- Change of pipe invert not exceeding plus or minus one foot will not be considered as a basis for additional compensation for the contract price, but time or for modification of present structure.
- All landmarks (trees and monuments) shown in the Construction Plans, or found, shall be preserved. Those shown in proposed pavement shall be protected with a cast iron valve box.
- Public lot corners within the limits of construction shall be preserved. If a corner monument is in danger of being destroyed or disturbed, the Contractor shall notify the Engineer, without delay, by telephone. The Contractor shall provide written notice on construction within 48 hours of telephone notification.
- Prior to beginning of any construction, the Contractor shall submit to the Engineer a set of field notes verifying the benchmark elevations and the reference point connections on the plan and profile from bench, and a set of field notes for all additional benchmarks and reference point connections proposed to be used in constructing the project with their location, description and elevation, based on North American Vertical Datum (NAVD83). All materials shall be signed and sealed by a Professional Land Surveyor registered in the State of Florida.
- Within 21 calendar days after notice to proceed, the Contractor shall make the public right-of-way at 30 foot intervals and the right-of-way breaks with corresponding stations shown on the plans. No notice is given for modification (City Plan No. 10151) will be processed until the right-of-way has been marked to the satisfaction of the Engineer.
- All Area Station Codes (ASC) and National Gridline Survey (NGS) monuments within the limits of construction shall be preserved. If in danger of damage, the Contractor shall notify the Engineer, and both shall notify the State Geodesy Advisor, NOAA, 3900 Commonwealth Blvd., NES105 Tallahassee, FL, Phone (904) 245-2626.
- It shall be the responsibility of the Contractor to acquire all necessary right-of-way and maintenance of traffic permits. The City will waive all permits required for construction activities within the limits of public right-of-way covered and maintained by the City of Apopka. For construction activity within the limits of public right-of-way maintained by the City but not owned by Orange County or the State of Florida, the Contractor shall acquire the required permits from the agencies. It shall be the responsibility of the Contractor to insure that all required permits are obtained and that they comply with any construction.
- The location of all existing utilities, storm drainage systems, and topographic features shown on the plans have been determined from the best available information and are provided for the convenience of the Contractor. The Engineer assumes no responsibility for their accuracy. Should a discrepancy arise between these plans and actual field conditions, which would appreciably affect the execution of these plans, the Contractor shall halt construction and notify the Engineer immediately.
- The Contractor shall be responsible for notifying the City within 48 hours before any inspection. Also, the Contractor shall be responsible for meeting all inspection criteria, schedule and opening and inspection.

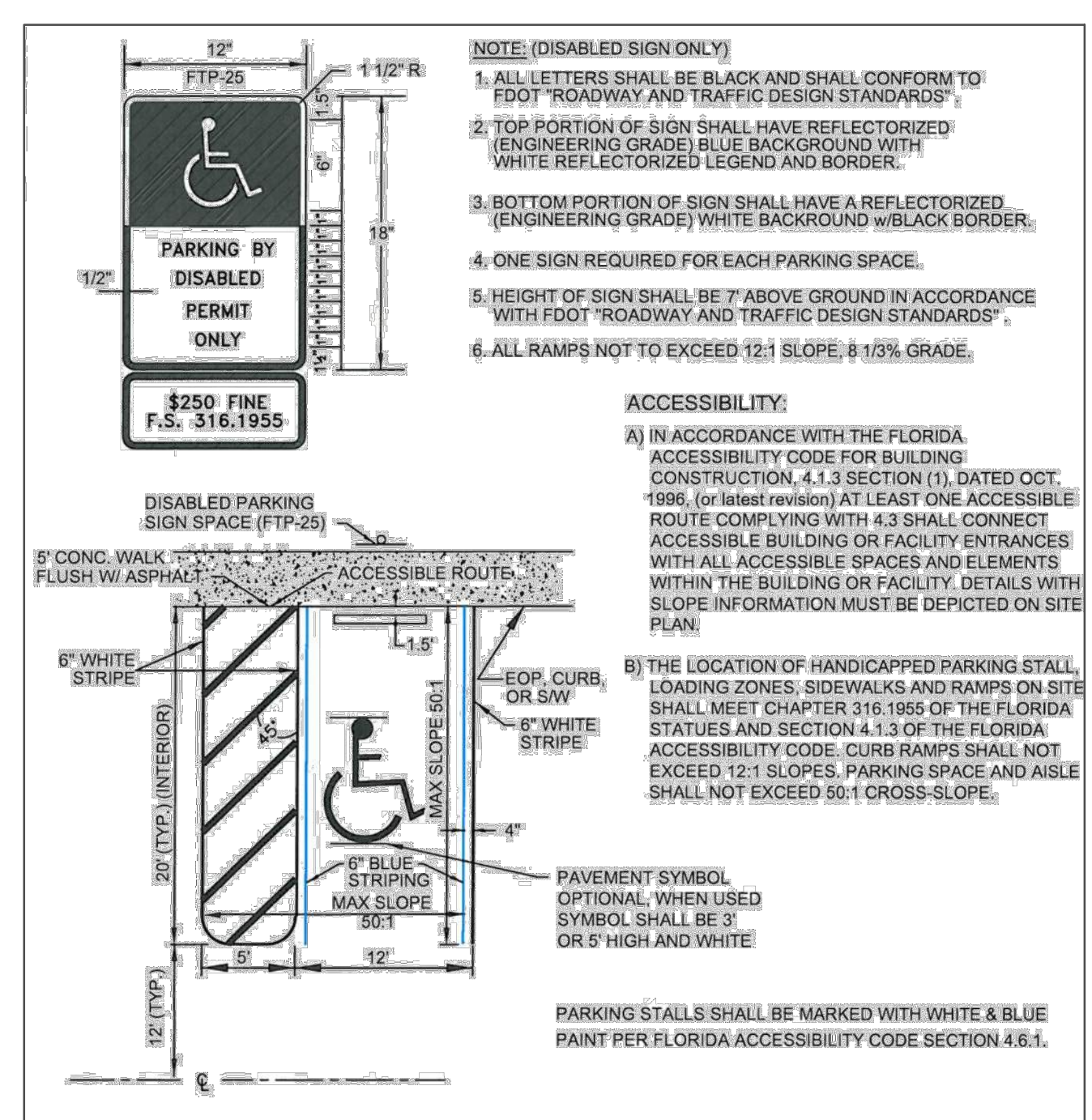
CITY OF APOPKA DESIGN ENGINEERING DIVISION      JANUARY 2014      FIG. GN



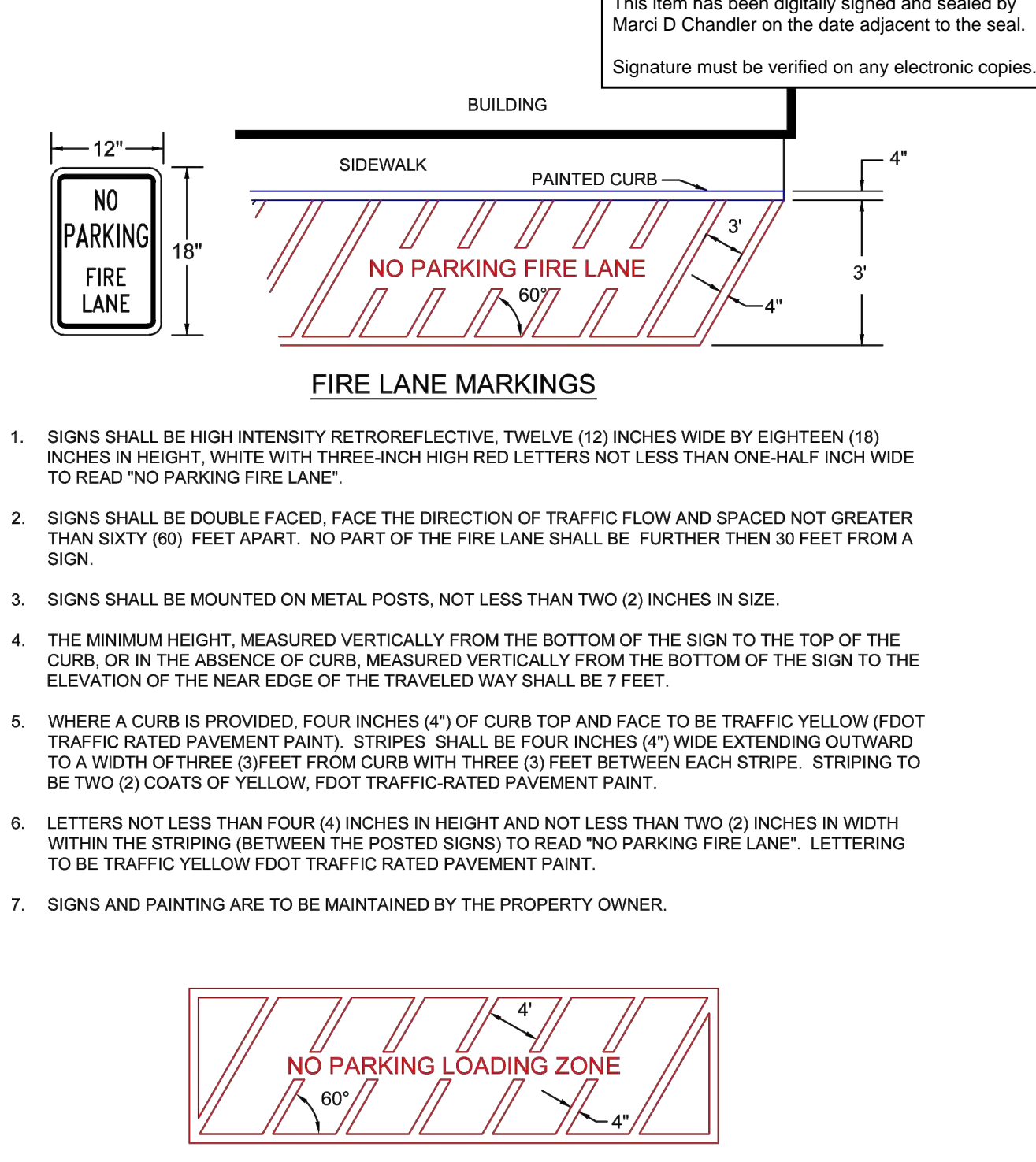
**ADA SIDEWALK RAMP DETAIL**  
NOT TO SCALE



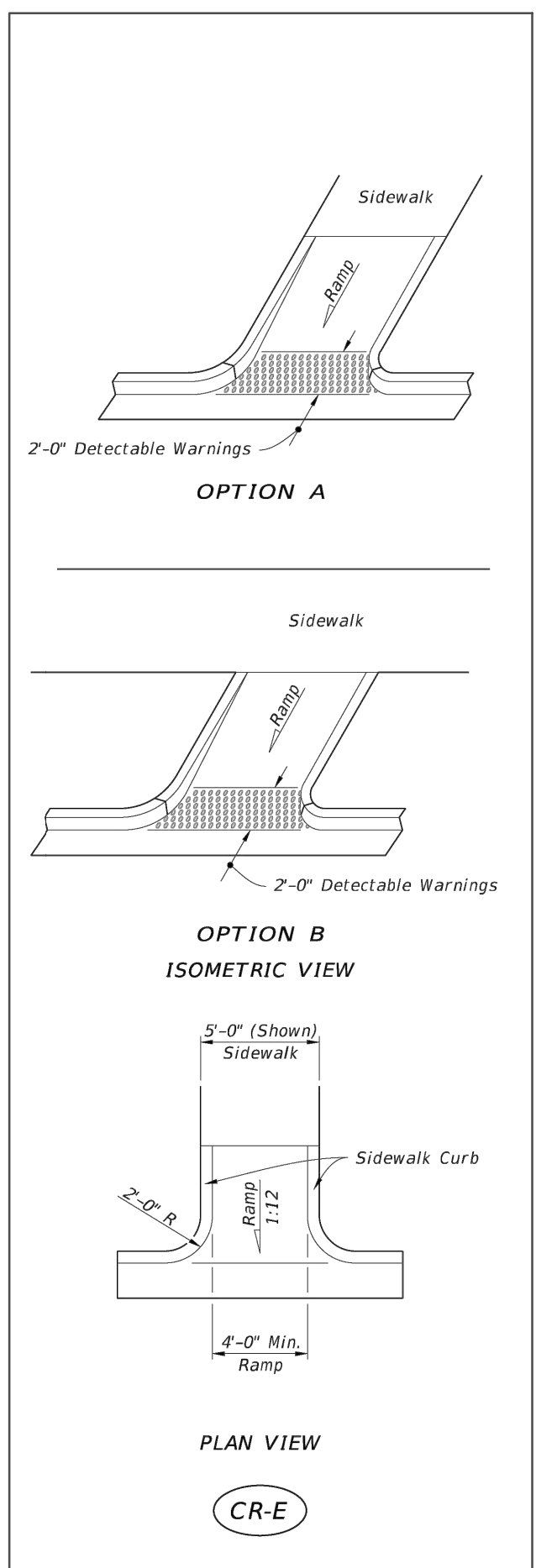
**CONCRETE BUMPER GUARD DETAIL**  
NOT TO SCALE



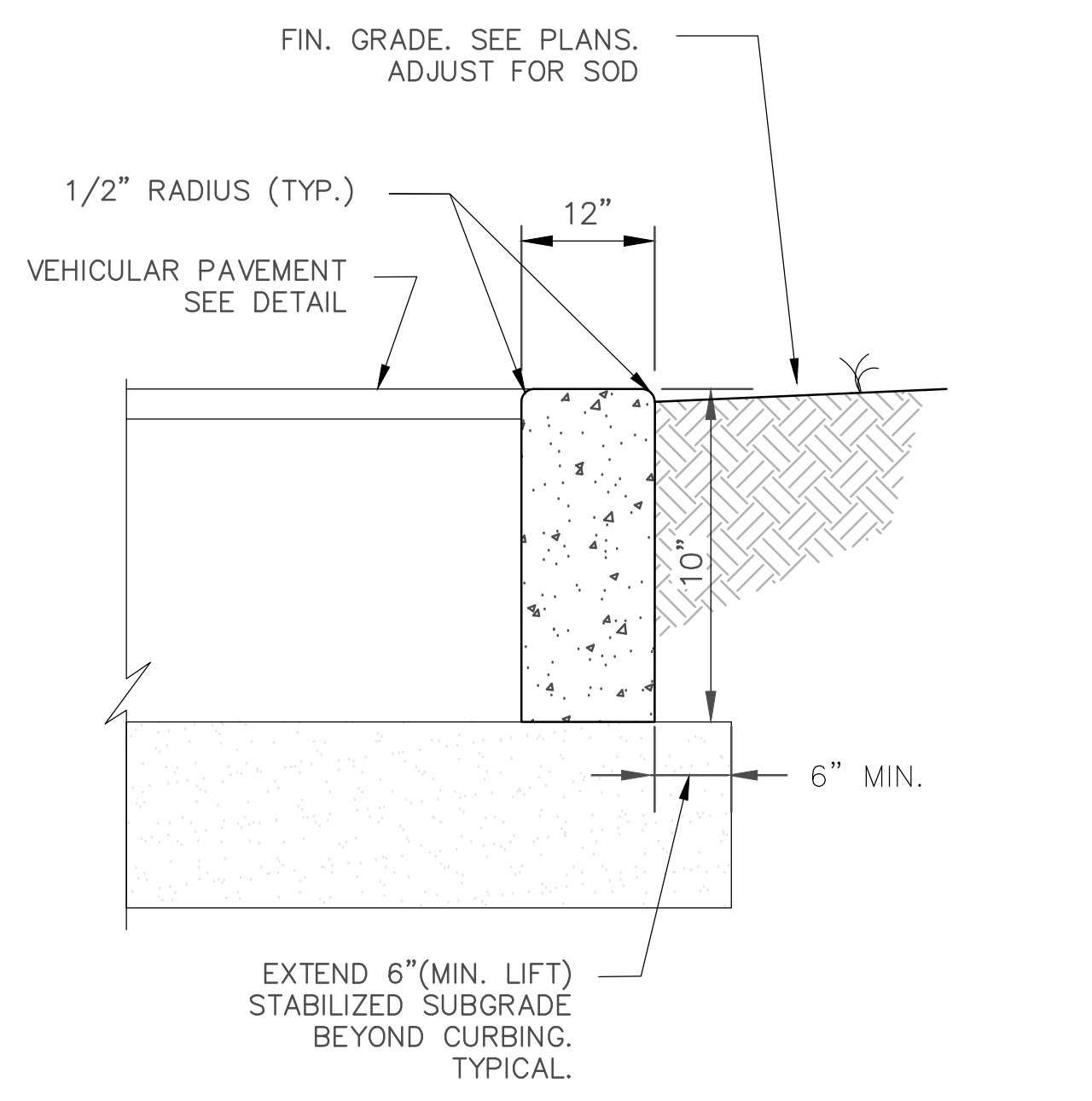
**ADA PARKING & SIGNAGE DETAIL**  
NOT TO SCALE



**FIRE LANE & LOADING ZONE MARKINGS DETAIL**  
NOT TO SCALE

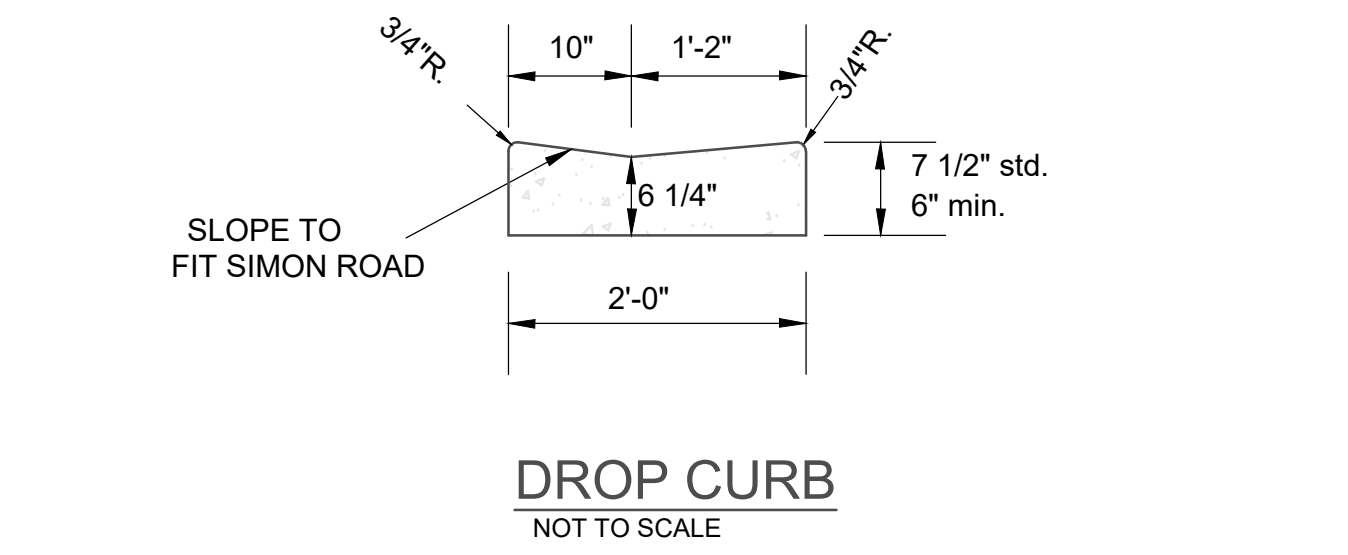


**FDOT SIDEWALK CURB RAMP**  
INDEX NO 522-002      NOT TO SCALE

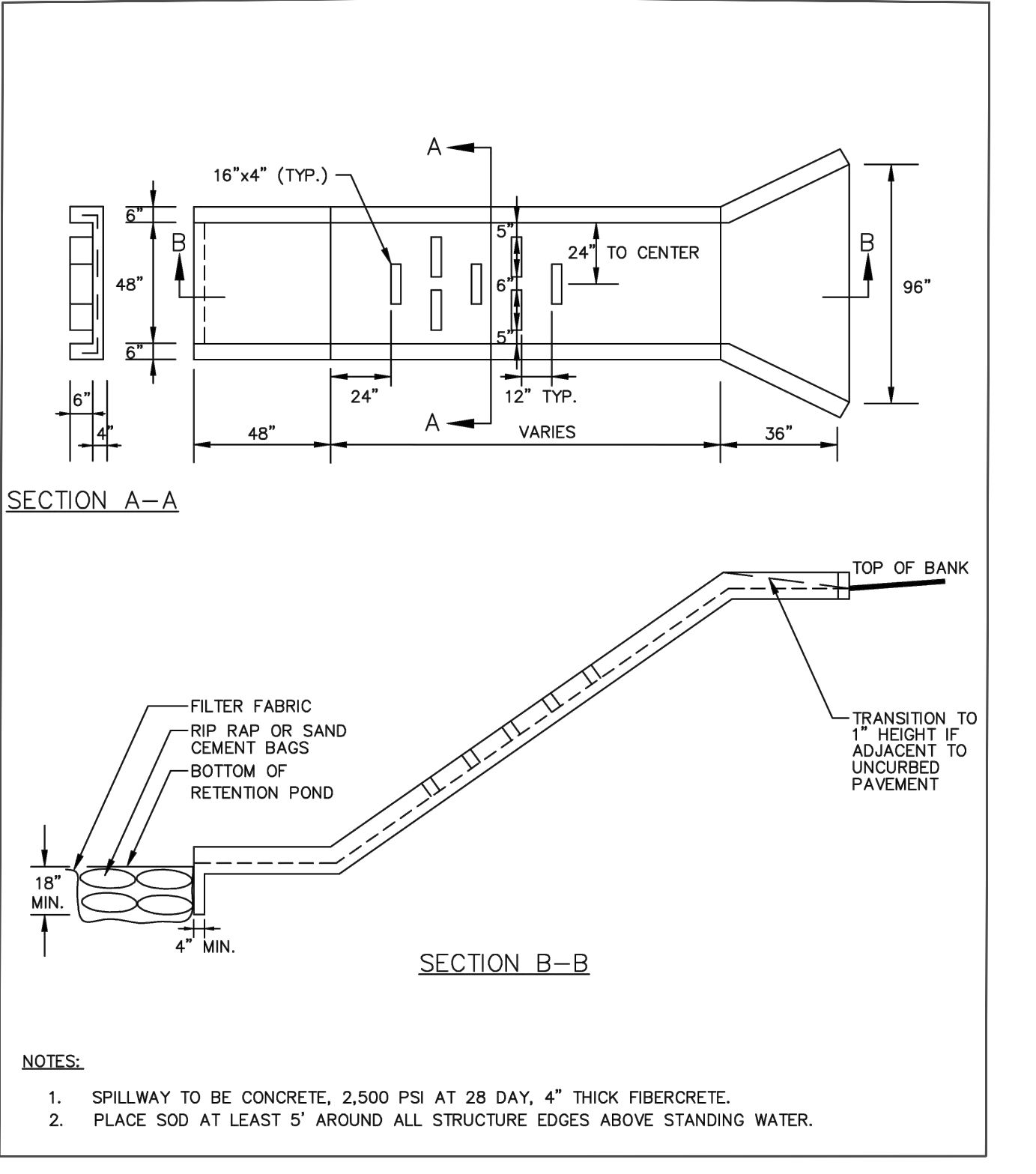


**NOTE:**  
1. USE F.D.O.T. CLASS I CONCRETE (3,000 PSI).  
2. SAW CUT CONTROL JOINTS 10' O.C. MAX. IN NEW CURB WITHIN 24 HOURS OF POUR.  
3. REFER TO HARDSHAPE PLANS FOR SCORING AND FINISHING DETAILS.

**RIBBON CURB**  
NOT TO SCALE



**DROP CURB**  
NOT TO SCALE



**NOTES:**  
1. SPILLWAY TO BE CONCRETE, 2,500 PSI AT 28 DAY, 4\"/>

IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

SCALE: N/A  
SUBMITTALS: CONSTRUCTION/GRID REVISIONS

PREPARED BY: MARCI D. CHANDLER  
FL PE #63034  
1030 HAAS ROAD  
APOPKA FL 32712  
407-866-9530

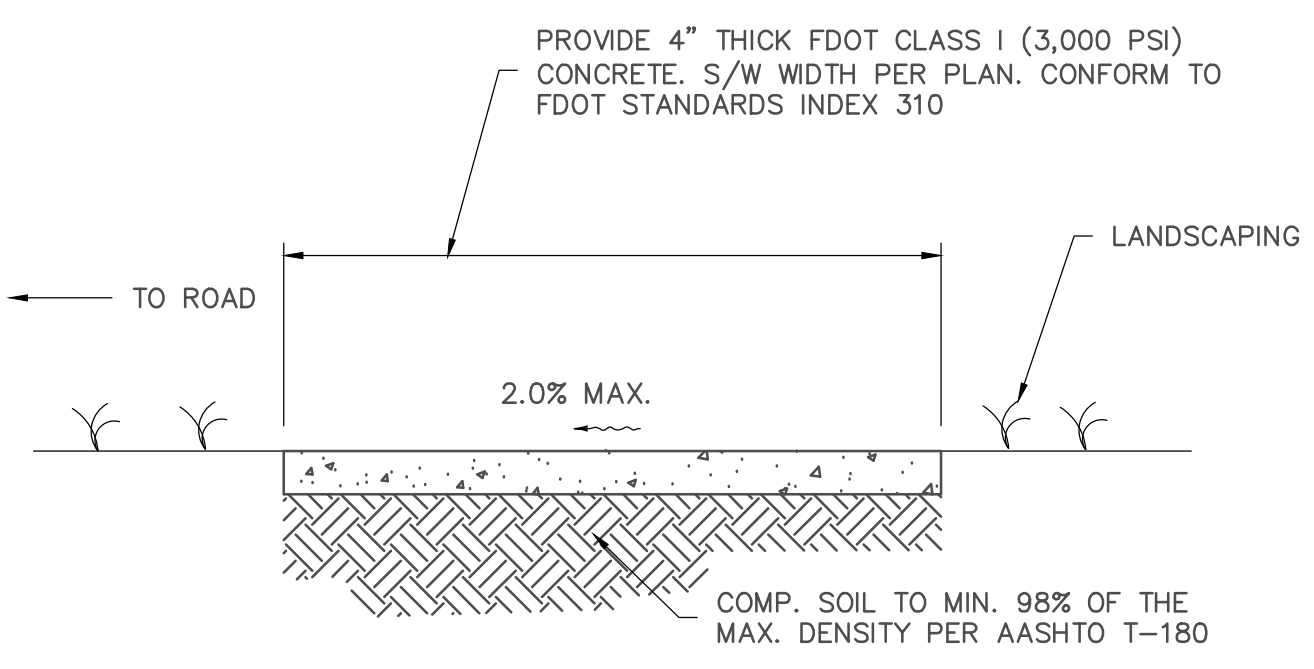
CLIENT: GCC  
PROJECT: GCC APOPKA, FL  
TITLE: SITE DETAILS

DRAWN BY: JRM  
ENGINEER: MDC  
DATE: JULY 2025  
ISSUED FOR: CONSTRUCTION

**SITE DETAILS**

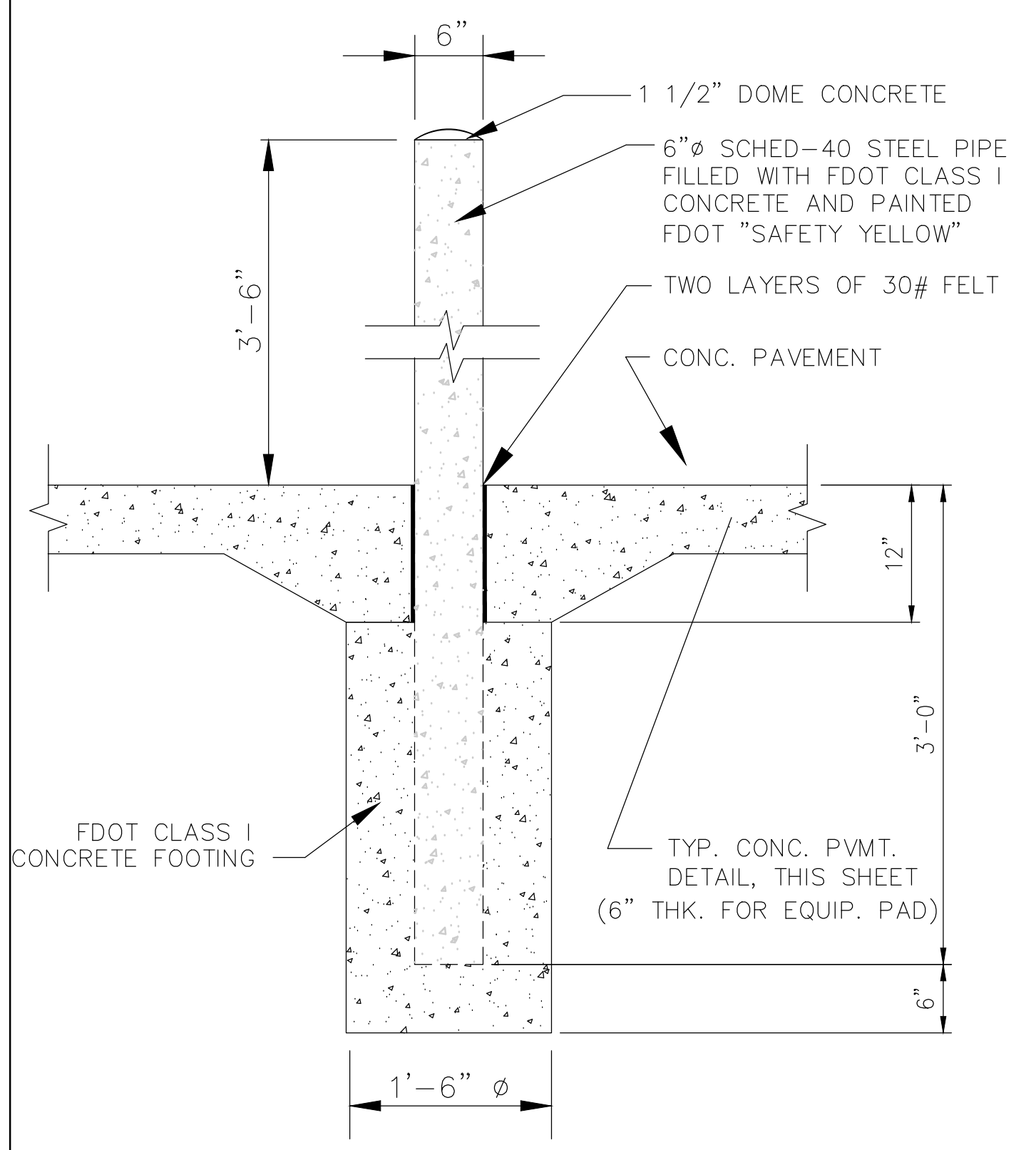
C-20

This item has been digitally signed and sealed by  
 Marci D Chandler on the date adjacent to the seal.  
 Signature must be verified on any electronic copies.

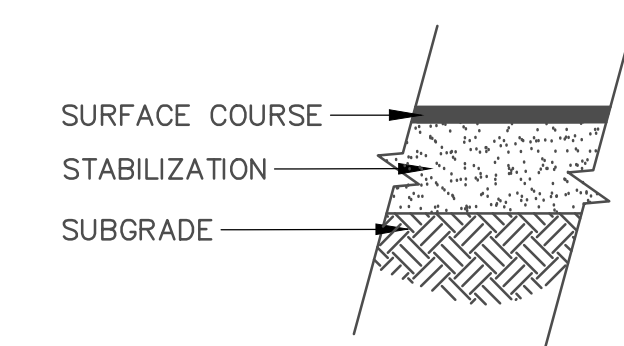


- NOTES:**
1. PROVIDE SEALED EXP. JOINTS. AS REQUIRED PER PLANS, OTHERWISE CONFORM TO FDOT INDEX 310
  2. CONSTRUCT SIDEWALK CONFORMING TO FDOT SPEC. SECTION 522
  3. PROVIDE CONCRETE BROOM FINISH IN STANDARD COLOR, UNLESS OTHERWISE INDICATED IN THE LANDSCAPE ARCHITECT DOCUMENTS.
  4. SIDEWALK REQUIREMENTS: 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.

**TYPICAL SIDEWALK DETAIL**  
 NOT TO SCALE



**TYPICAL COLLISION PROTECTION BOLLARDS**  
 N.T.S.



**DRIVE AISLE AREA PAVEMENT STRUCTURE**

1.5" TYPE SP-9.5 (TRAFFIC B) ASPHALTIC CONCRETE SURFACE COURSE

6" LIMEROCK BASE (OR CRUSHED CONCRETE) W/MIN LBR 100 COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY VALUE (AASHTO T-180)

12" STABILIZED SUB BASE COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY VALUE (AASHTO T-180, LBR40 MIN)

- PAVING NOTES:**
1. SUBGRADE (BACKFILL OR IN-SITU SOILS) SHALL BE COMPACTED TO MIN. 98% DENSITY PER AASHTO T-180
  2. **MILLING AND OVERLAY REQUIREMENTS:** PROVIDE 1.0-IN. AVERAGE MILLING AND OVERLAY W/ SURFACE COURSE ASPHALT USING FDOT APPROVED TACKING AND BINDER MATERIALS. CONFORM TO FDOT STANDARD SPEC. SECTION 327
  3. PROVIDE ASPHALTIC CONCRETE CONFORMING TO FDOT STANDARD SPEC. SECTION 334. PROVIDE PG76-22 (PMA) BINDER FOR SURFACE WEARING COURSE

**PAVEMENT SECTION FOR DRIVE AISLE**  
 NOT TO SCALE

PREPARED BY: MARCI D. CHANDLER  
 FL PE #63034  
 1030 HAAS ROAD  
 APOPKA, FL 32712  
 407-866-9530

SCALE: N/A  
 VERIFY SCALE BAR IS ONE-HALF INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/GRID REVISIONS

CLIENT: GCC

PROJECT: GCC APOPKA, FL

TITLE: SITE DETAILS

DRAWN BY: JRM

ENGINEER: MDC

DATE: JULY 2025

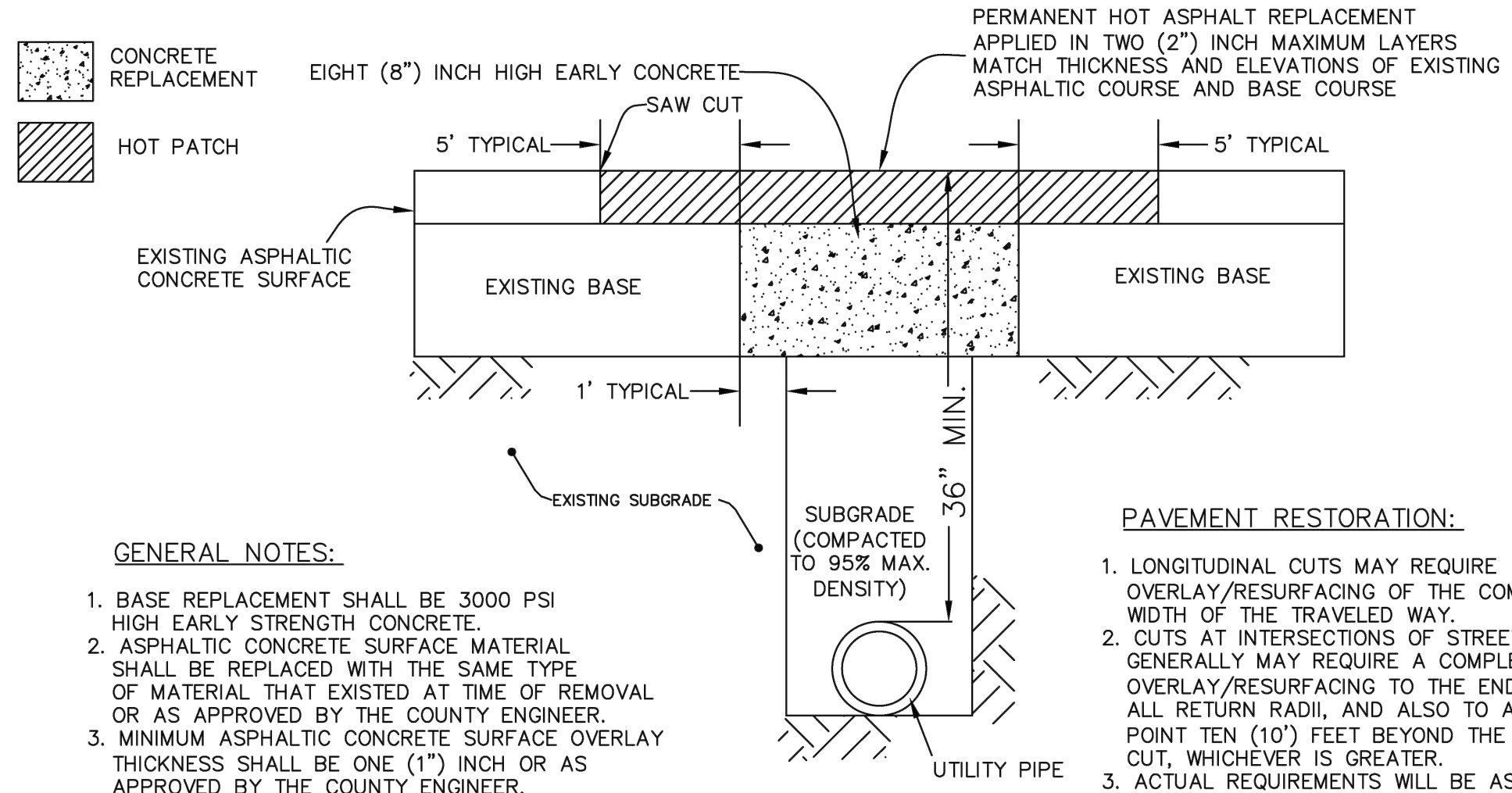
ISSUED FOR: CONSTRUCTION

**SITE DETAILS**

C-21

**NOTE:**

SUB-GRADE CUT TO BE COMPACTED TO 95% MAX. DENSITY AS DETERMINED BY AASHTO T - 180. CUT TO BE REPLACED WITH AN EIGHT (8") INCH 3000 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED ON DAY OF POUR. EXISTING SURFACE TO BE SAW CUT TO AN AREA FIVE (5') FEET, BEYOND THE BASE CUT.



**GENERAL NOTES:**

1. BASE REPLACEMENT SHALL BE 3000 PSI HIGH EARLY STRENGTH CONCRETE.
2. ASPHALTIC CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT EXISTED AT TIME OF REMOVAL OR AS APPROVED BY THE COUNTY ENGINEER.
3. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY THICKNESS SHALL BE ONE (1") INCH OR AS APPROVED BY THE COUNTY ENGINEER.
4. ALL JOINT CUTS SHALL BE MECHANICALLY SAW CUT.
5. FLOWABLE FILL MAY BE USED FOR COMPACTED SUBGRADE AND BASE REPLACEMENT WHEN APPROVED BY THE COUNTY ENGINEER.

**PAVEMENT RESTORATION:**

1. LONGITUDINAL CUTS MAY REQUIRE OVERLAY/RESURFACING OF THE COMPLETE WIDTH OF THE TRAVELED WAY.
2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY/RESURFACING TO THE END OF ALL RETURN RADII, AND ALSO TO A POINT TEN (10') FEET BEYOND THE CUT, WHICHEVER IS GREATER.
3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT OR AS DIRECTED BY INSPECTION.

**STANDARD ROADWAY OPENCUT CROSS SECTION DETAIL**  
 FINAL RESTORATION - TYPICAL OF MAJOR OPEN CUTS

IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700



OCU GENERAL NOTES

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO, WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
- SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-438-2777) AND THE OCU INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9708.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 "UTILITIES" SCHEDULE OF NOTIFICATIONS IN THIS MANUAL.
- THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE STANDARDS, CONSTRUCTION SPECIFICATIONS, AND APPENDIX D IN THIS MANUAL.
- ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO, WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, POLES AND STAYS, CABLE TV AND OTHER UTILITY FACILITIES WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO, PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS.
- ONLY OCU PERSONNEL SHALL OPERATE EXISTING OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
- CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
- THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND / OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAUL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
- ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
- THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
- FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
- FOR DIP PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
- FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
- ALL DAMAGE TO ORANGE COUNTY INFRASTRUCTURE, PIPELINES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH AN APPROVED METHOD BY THE COUNTY. IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
- THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS.

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL  
 FIGURE GN 10/10/2021

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS									
	POTABLE WATER		RECLAIMED WATER		SANITARY SEWER FORCE MAIN		SANITARY SEWER GRAVITY MAIN		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	-	-	3'	12"	6'	12"	6'	12"	3'	6"
RECLAIMED WATER	3'	12"	-	-	3'	12"	3'	12"	-	-
SANITARY SEWER FORCE MAIN	6'	12"	3'	12"	-	-	-	-	-	-
SANITARY SEWER GRAVITY MAIN	6'	12"	3'	12"	-	-	-	-	-	-

GENERAL NOTES:  
 1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.  
 2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-810. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.  
 3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.  
 C/C - DENOTES CENTER OF PIPE TO CENTER OF PIPE.  
 O/O - DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE.  
 4. ACCEPTABLE VARIANCES:  
 A. WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE, PVC-C-900 SDR-14 OR CONCRETE ENCASEMENT MUST BE USED FOR THE SANITARY SEWER LINE FOR AT LEAST ONE OF THE PIPES. PVC-C-900 SDR 14 OR CONCRETE ENCASEMENT MUST BE USED UNTIL MINIMUM CLEARANCE IS REGAINED.  
 B. WHERE 18 INCH VERTICAL SEPARATION IS NOT ATTAINABLE AT CROSSINGS, USE ONE FULL LENGTH OF PVC-C-900 SDR-14 FOR SANITARY SEWERS OR ENCASED PIPE CENTERED AT THE POINT OF CROSSING. SPECIAL SUPPORT MAY BE REQUIRED.  
 5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.  
 6. CONCRETE ENCASEMENT SHALL NOT BE USED UNLESS APPROVED BY PUBLIC SERVICES DIRECTOR OR HIS DESIGNEE.

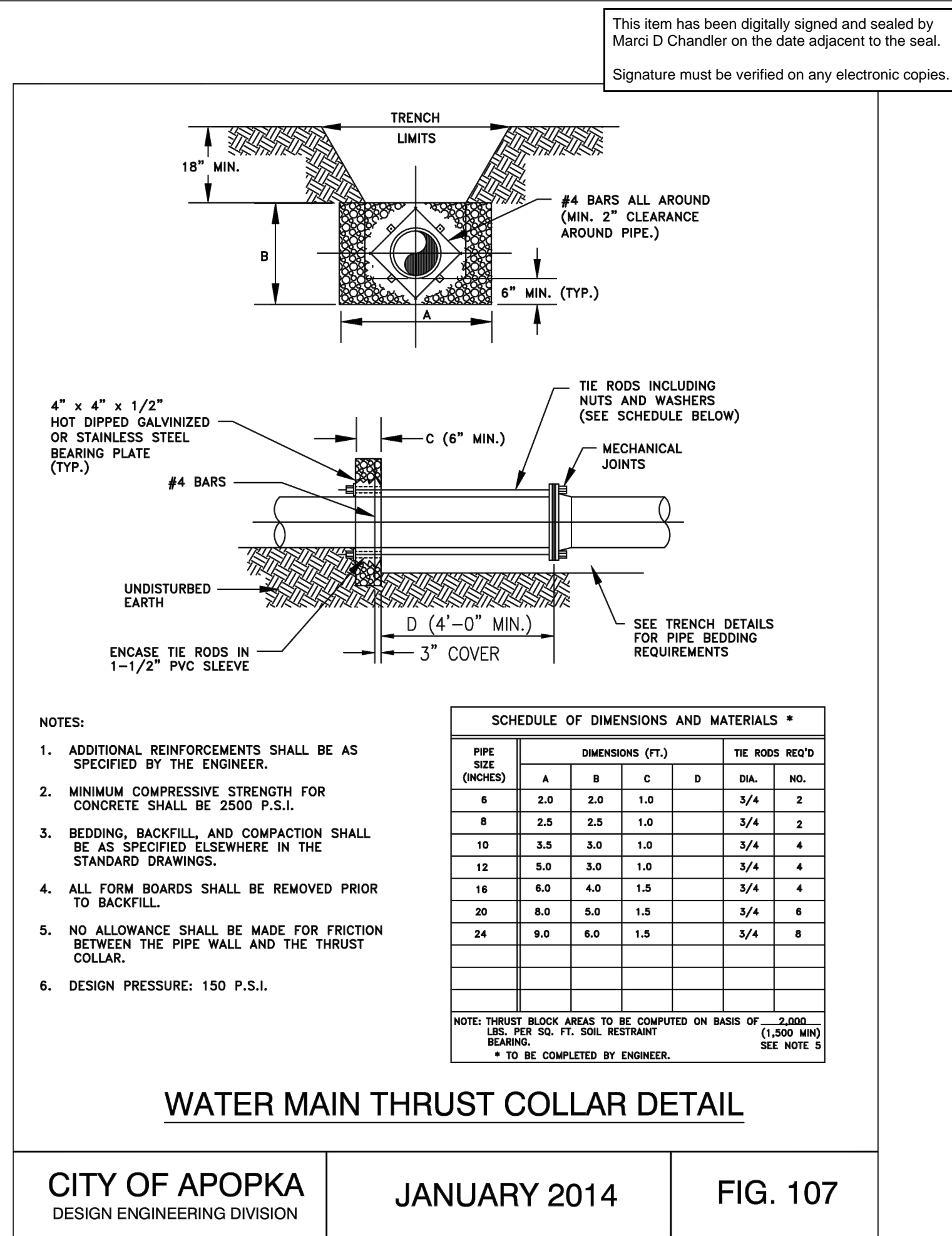
HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS  
 CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 104

	PIPE SIZE										
	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
90° BEND	33	43	51	60							
45° BEND	14	18	22	25							
22-1/2° BEND	7	9	11	12							
11-1/4° BEND	4	5	6	6							
TEE**	1	7	24	44							
REDUCER (ONE SIZE SMALLER)		41	39	40							
DEAD END	74	96	115	136							

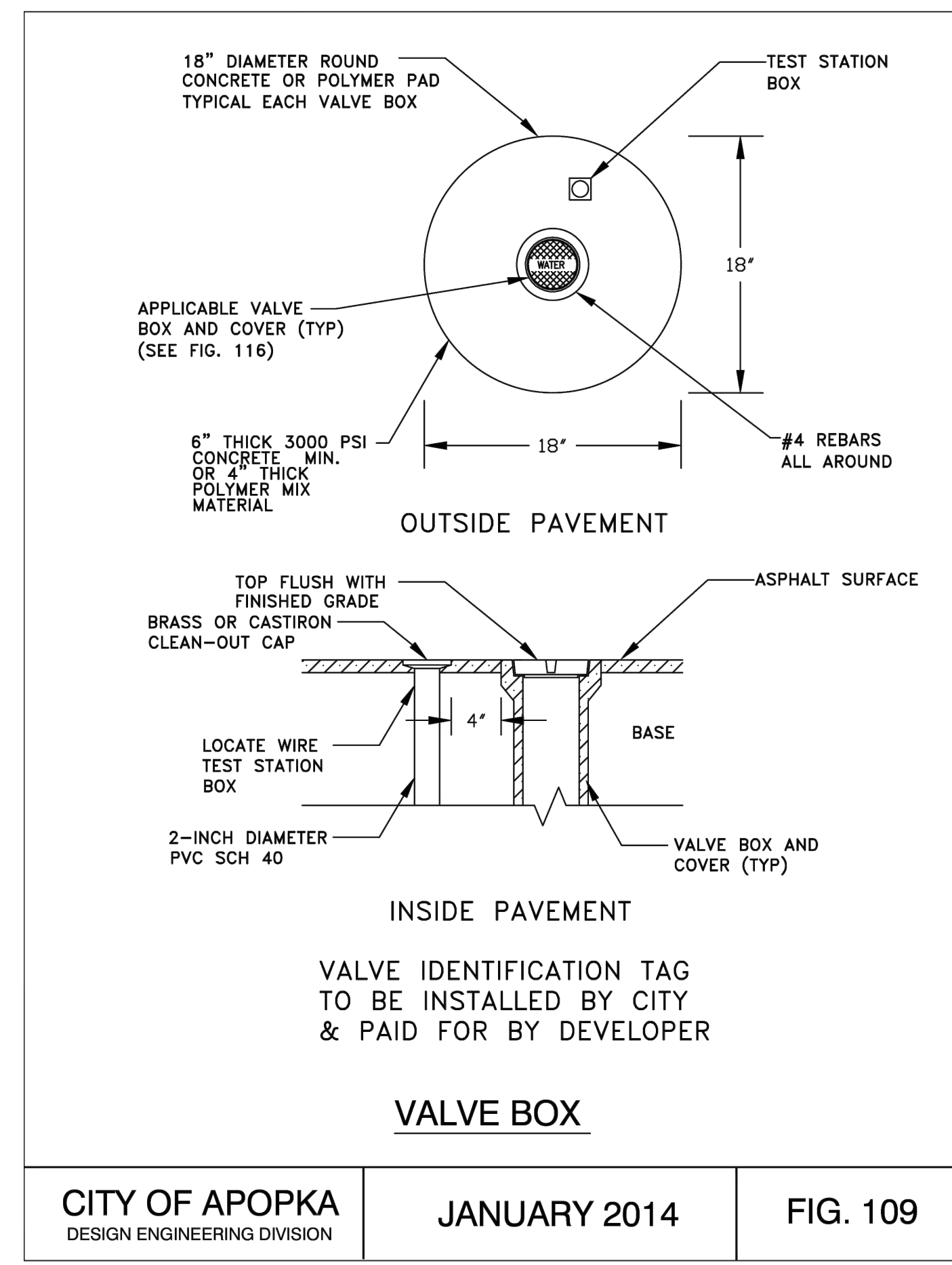
\* ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS  
 \*\* LENGTH ALONG RUN ASSUMED TO BE 18'

NOTES:  
 1. FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINED WITH PROTECTO 401.  
 2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.  
 3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.  
 4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.  
 5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, FOR PVC WITH THE FOLLOWING ASSUMPTIONS:  
 TYPE OF PIPE: PVC  
 WORKING PRESSURE: 150 P.S.I.  
 SOIL DESIGNATION: SH(CAND. Silt)  
 LAYING CONDITIONS: 3  
 \*\* FM = 100 P.S.I. / WM OR RWM = 150 P.S.I.  
 6. FOR PIPE ENCASED IN POLYETHYLENE INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.  
 7. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

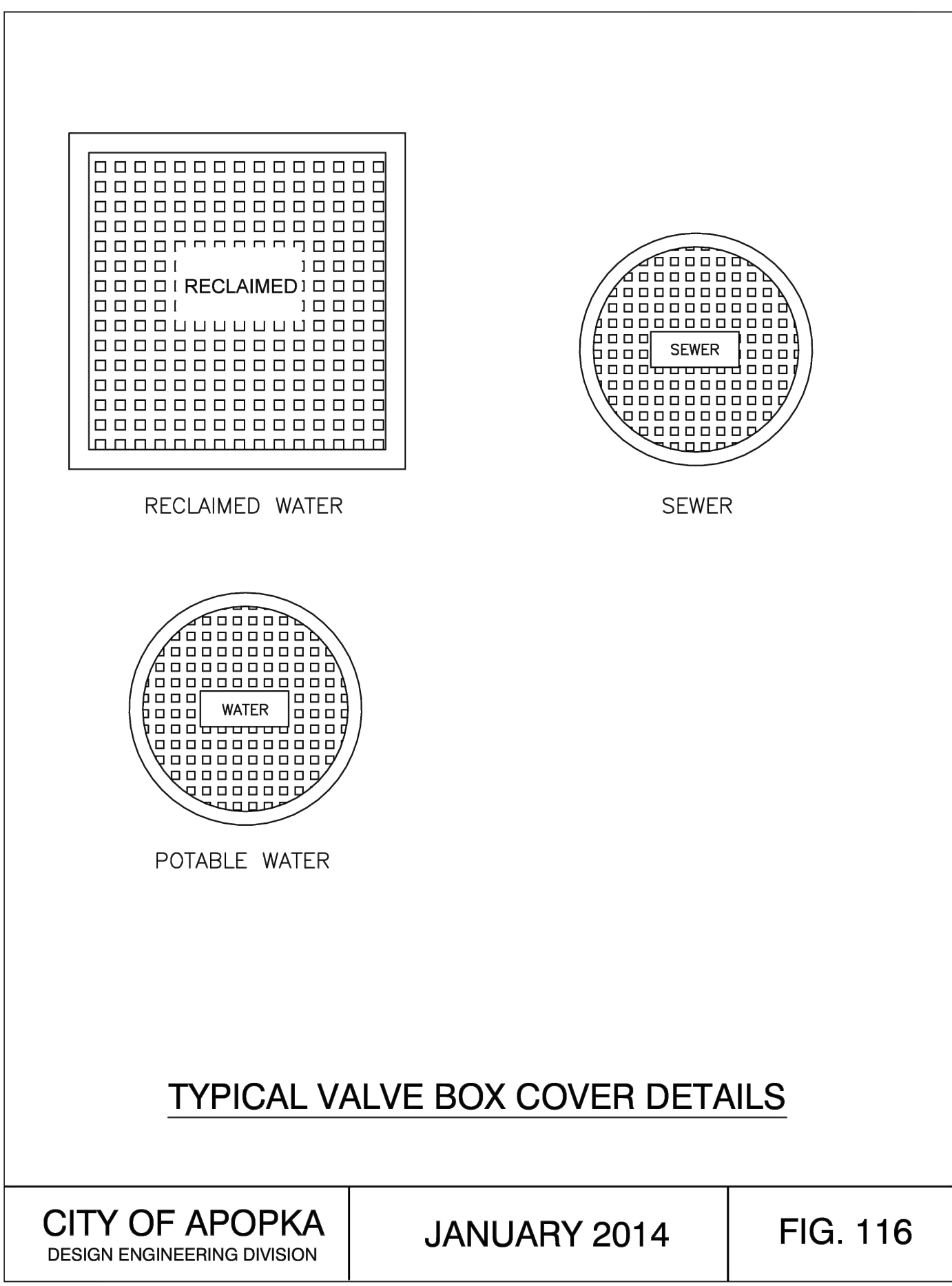
RESTRAINED PIPE TABLE (PVC)  
 CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 105



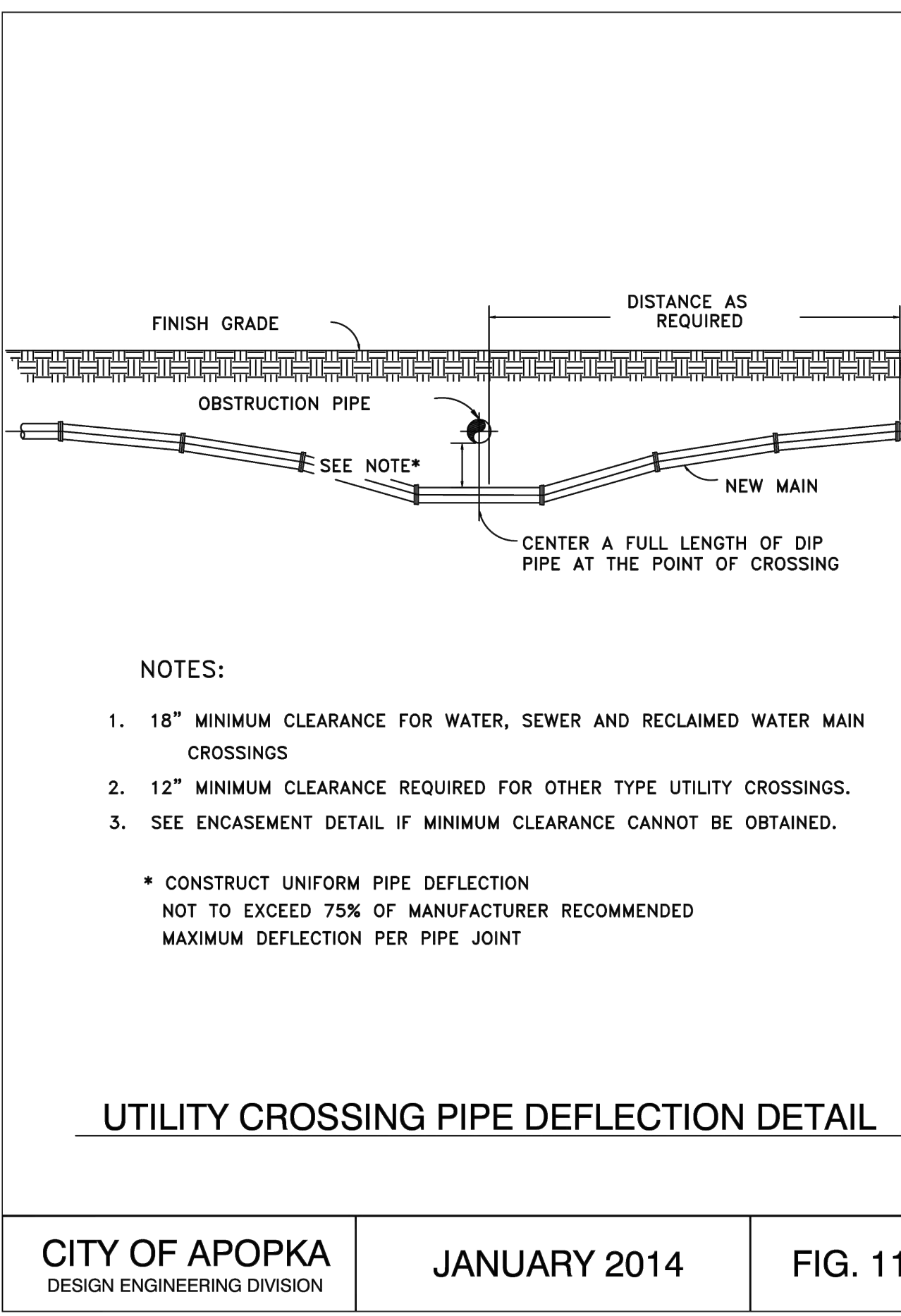
WATER MAIN THRUST COLLAR DETAIL  
 CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 107



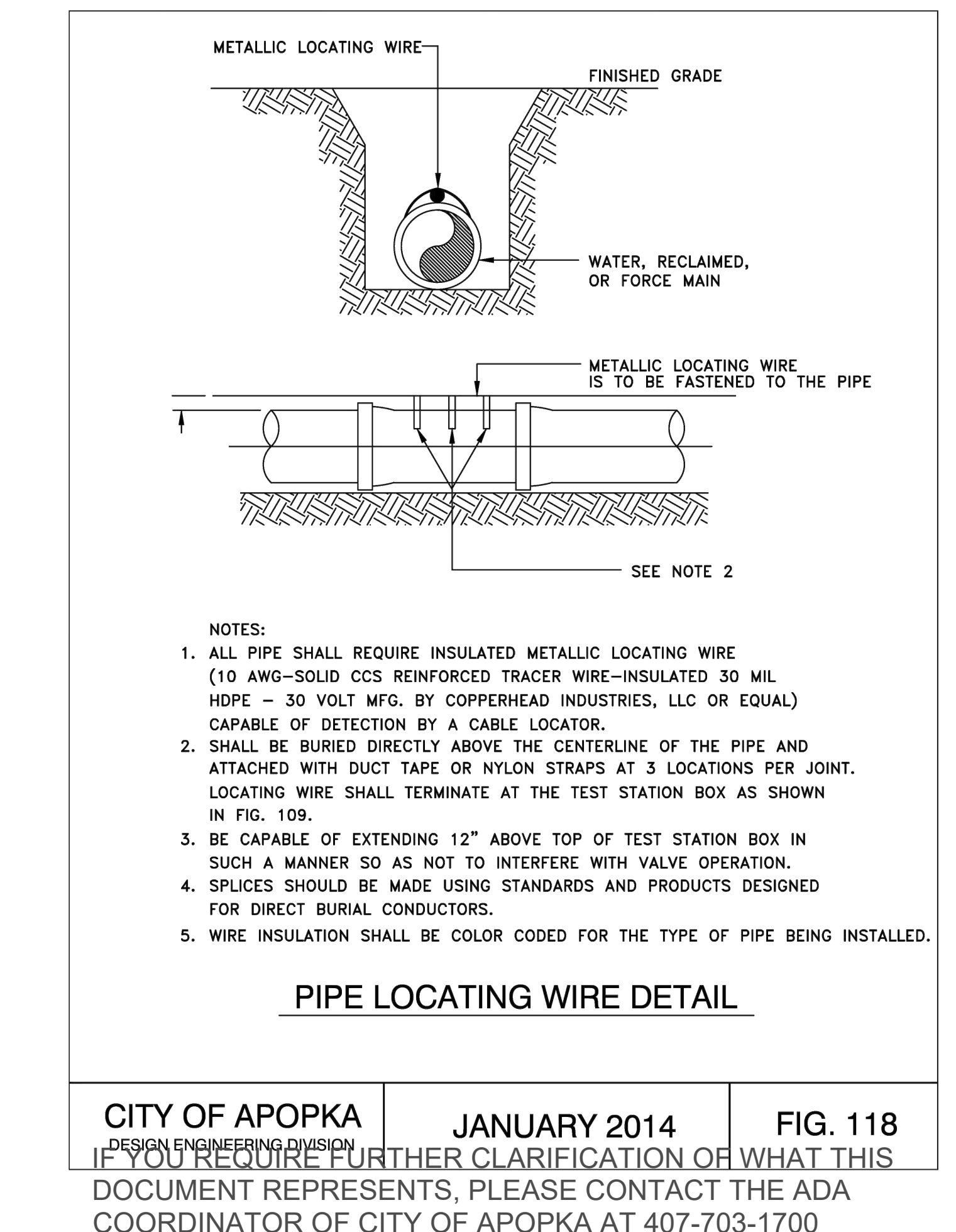
CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 109



CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 116



CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 117



CITY OF APOPKA DESIGN ENGINEERING DIVISION  
 JANUARY 2014 FIG. 118

IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

PREPARED BY: MARCI D. CHANDLER  
 FL PE #63034  
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 APOPKA, FL 32712  
 407-866-9530

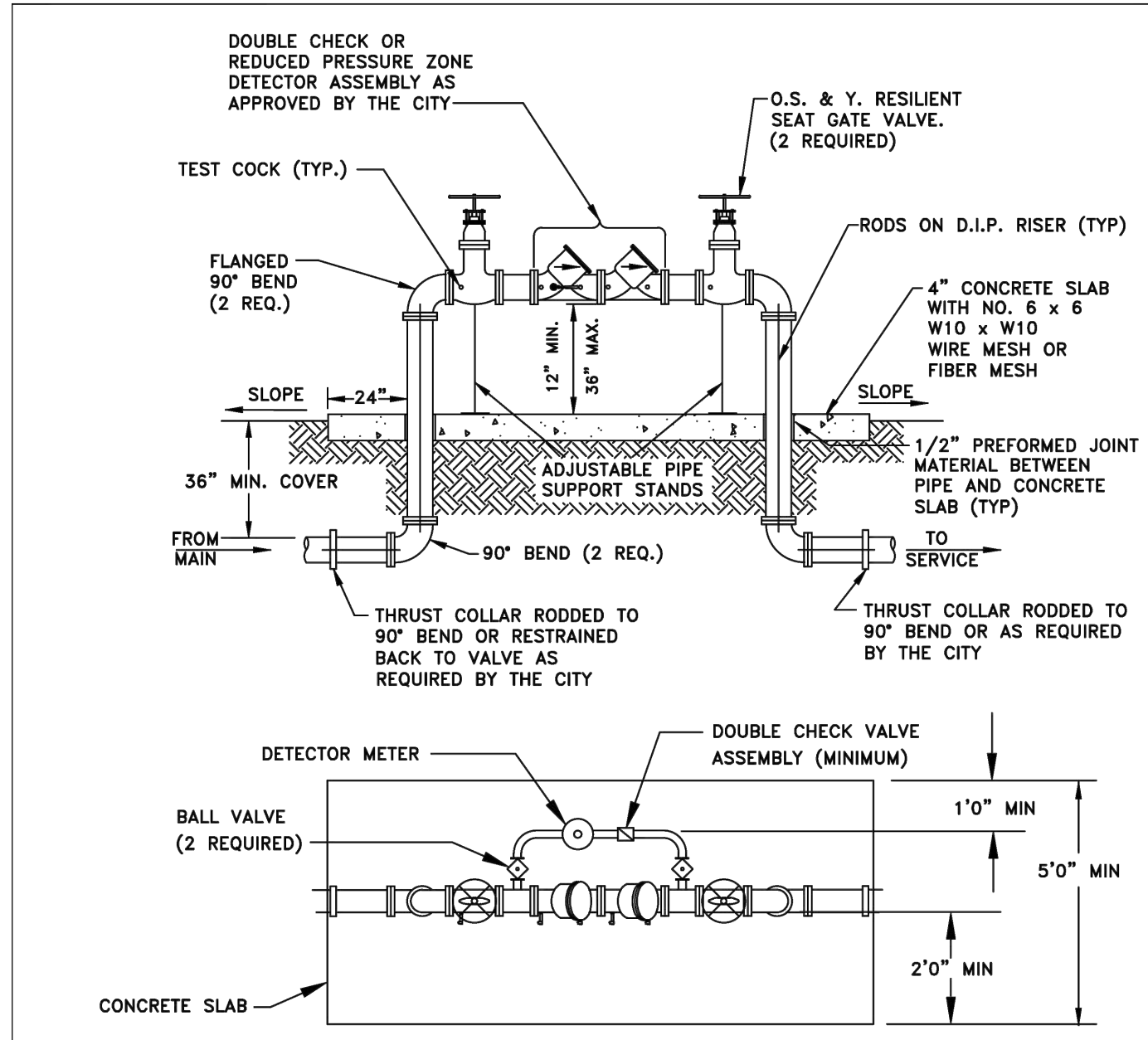
SCALE: N/A  
 SHEET SCALE: ONE-HALF INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/REV. REVISIONS

CLIENT: GCC  
 PROJECT: GCC APOPKA, FL  
 TITLE: UTILITY DETAILS

DRAWN BY: JRM  
 ENGINEER: MDC  
 DATE: JULY 2025  
 ISSUED FOR: CONSTRUCTION

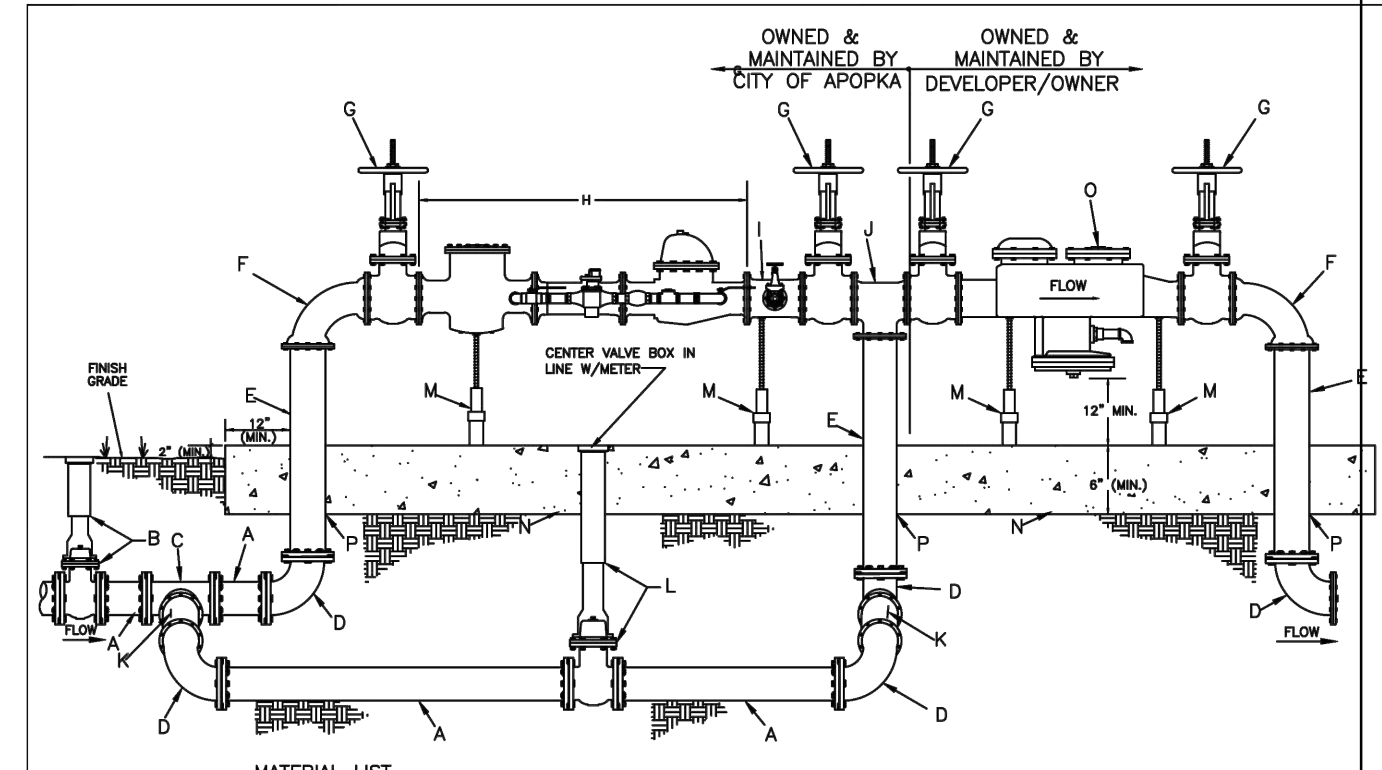
UTILITY DETAILS  
 C-23



- NOTES: 1. BYPASS METER MUST MEET AWWA STANDARD C700 OR C701.  
 2. METER MUST MEET AWWA STANDARD C707 AND TRANSMITTER MUST BE COMPATIBLE WITH THE CITY'S AMR SYSTEM.  
 3. ALL PIPE FITTINGS, MATERIALS, LABOR, AND APPURTENANCES SHALL BE SUPPLIED BY THE CONTRACTOR.  
 4. ALL PIPE AND FITTINGS TWO (2) INCHES AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL, OR BRASS.

**ABOVE GROUND DEVICE WITH DETECTOR BY-PASS**  
 2 INCH AND ABOVE ASSEMBLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 500 B

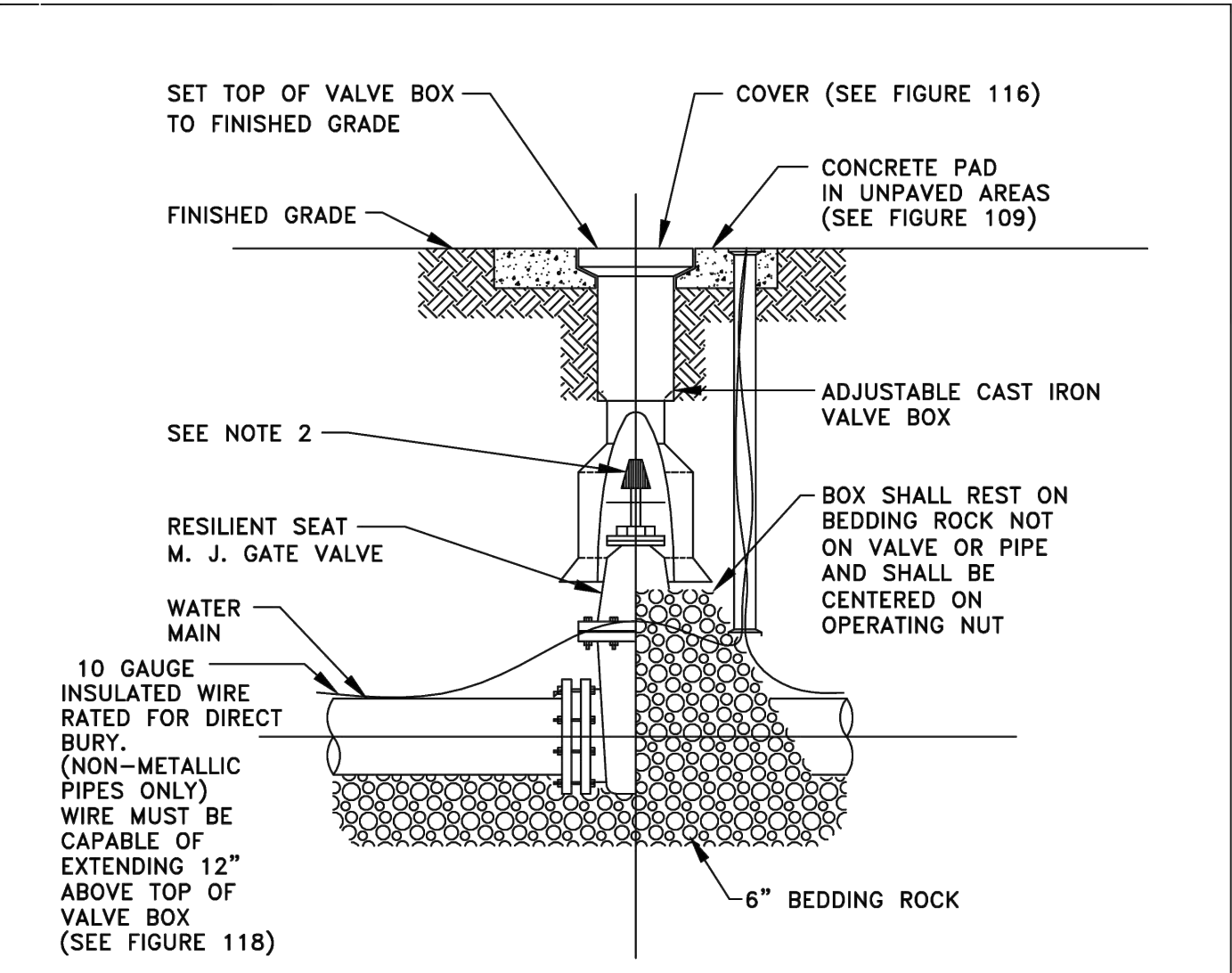


- MATERIAL LIST**
- A DUCTILE IRON PIPE (VARIOUS LENGTHS)
  - B M.J. GATE VALVE W/VALVE BOX (SLIDE STYLE)
  - C M.J. TEE
  - D M.J. ELL
  - E DUCTILE IRON FLANGED PIPE
  - F FLANGED O.S. & Y VALVE
  - G DUAL RANGE METER
  - H (SIZE) x 4" FLANGED TEE
  - I 4" x 2" TAPPED NIPPLE
  - J 2" x 1/2" BRASS NIPPLE
  - K GATE SCREW VALVE
  - L GALVANIZED PLUG
  - J FLANGED TEE (SIZE) x 30" D.I. PIPE STUB
  - K M.J. GATE VALVE W/VALVE BOX (SLIDE STYLE)
  - L VALVE NUT LOCKING CAP
  - M MEGALUG JOINT RESTRAINTS (VALVE NUT LOCKING CAP PROVIDED BY OUC)
  - N ADJUSTABLE BRACE (AS NEEDED)
  - O 3000 PSI CONC. W/5/8" WIRE (6" WIDE x 6" THICK MINIMUM) BY DEVELOPER
  - P CITY OF APOPKA APPROVED REDUCED PRESSURE BACKFLOW PREVENTER
  - Q ALL FLANGES: PIPES, VALVES AND APPURTENANCES SHALL HAVE 316 S.S. HARDWARE

- NOTES:**
- THE METER ASSEMBLY TO BE INSTALLED ON PRIVATE PROPERTY.
  - PROVIDE A MINIMUM 10 FT. EASEMENT ON EACH SIDE OF THE METER ASSEMBLY TO THE CITY OF APOPKA FOR OPERATION AND MAINTENANCE OF THE METER ASSEMBLY.
  - DEVELOPER/INSTALL: OWNER/DEVELOPER WILL BE RESPONSIBLE FOR THE INSTALLATION OF THIS FIRE LINE MASTER METER ASSEMBLY UNDER THE INSPECTION OF CITY OF APOPKA PERSONNEL.
  - THE BACKFLOW PREVENTION DEVICE TO BE FURNISHED, INSTALLED AND MAINTAINED BY THE OWNER/DEVELOPER. THE BACKFLOW PREVENTION DEVICE WILL BE TESTED BY CERTIFIED BACKFLOW PREVENTION DEVICE TESTER AFTER INSTALLATION. A COPY OF THE TEST RESULTS WILL BE PROVIDED TO THE CITY OF APOPKA PUBLIC SERVICES DEPARTMENT. THE BACKFLOW PREVENTION DEVICE WILL NEED TO BE AN AMERICAN WATER WORKS ASSOCIATION (AWWA) APPROVED DEVICE.
  - THE METER ASSEMBLY WILL BE OWNED AND MAINTAINED BY THE CITY OF APOPKA. BOTH METERS WITHIN THE MASTER ASSEMBLY WILL NEED TO BE COMPATIBLE WITH THE CITY'S AUTOMATIC METER READING (AMR) SYSTEM. THE CITY'S AMR SYSTEM IS MANUFACTURED BY SENSUS METERING SYSTEMS, INC.
  - PIPE, FITTINGS AND VALVE SIZES DETERMINED BY LARGE METER SIZE.  
 4"x1.5" DRW W/4" BY-PASS  
 8"x2" DRW W/6" BY-PASS  
 8"x2" DRW W/8" BY-PASS  
 10"x2" DRW W/10" BY-PASS  
 MINIMUM SERVICE VALVE SIZE DETERMINED BY LARGE METER SIZE.

**FIRE LINE MASTER METER ASSEMBLY W/ BY-PASS (TYPICAL)**

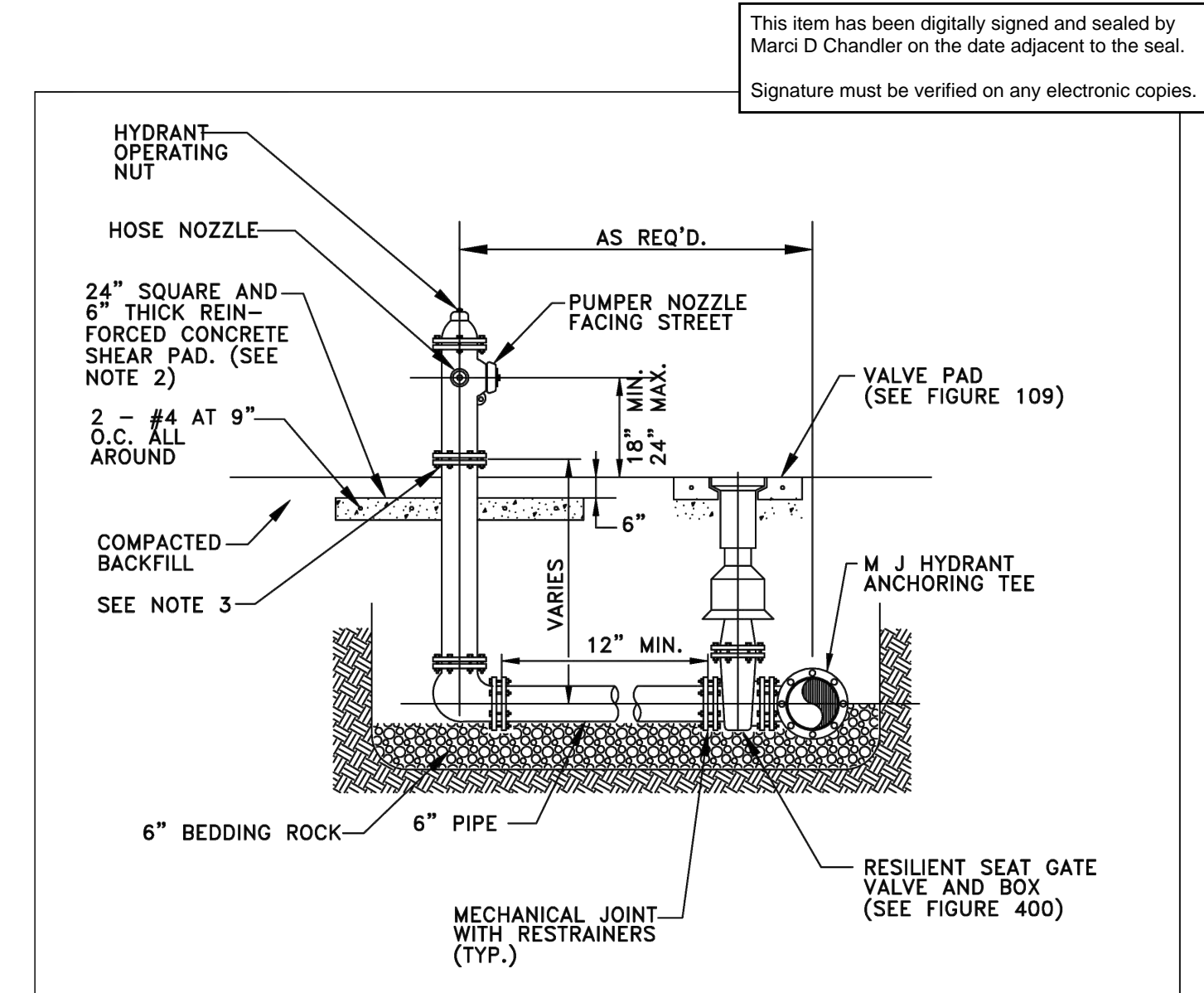
CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 500 C



- NOTES:**
- PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
  - THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN A 3 FEET BELOW FINISHED GRADE.

**GATE VALVE AND BOX DETAIL**

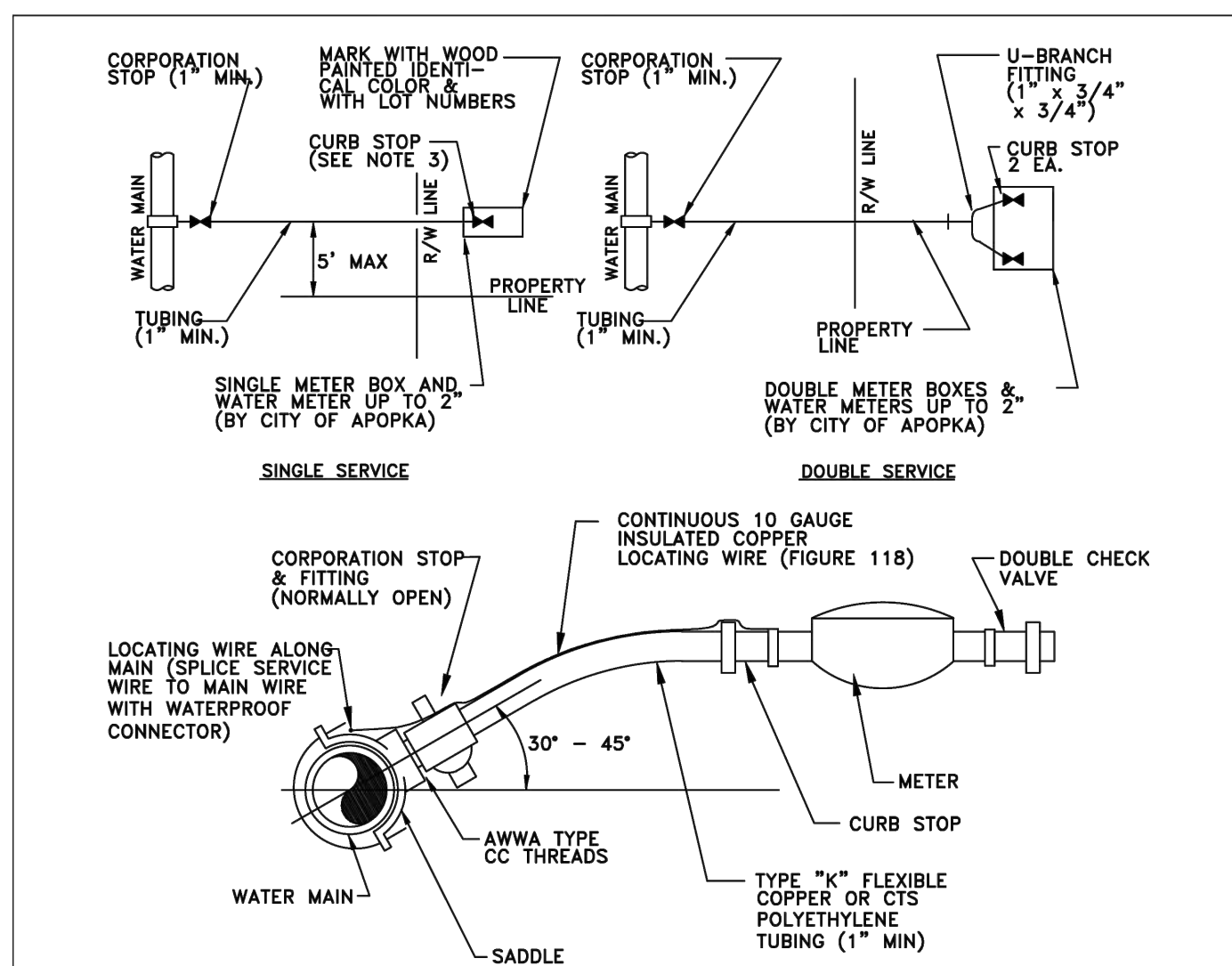
CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 400



- NOTES:**
- FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
  - THE SHEAR PAD SHALL BE RECESSED SIX (6) INCHES BELOW THE FINISHED GRADE AND THE RECESSED SECTION SODDED.
  - CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A TWELVE (12) INCH MINIMUM.
  - FIRE HYDRANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF APOPKA CONSTRUCTION DESIGN STANDARDS MANUAL.

**FIRE HYDRANT ASSEMBLY DETAIL**

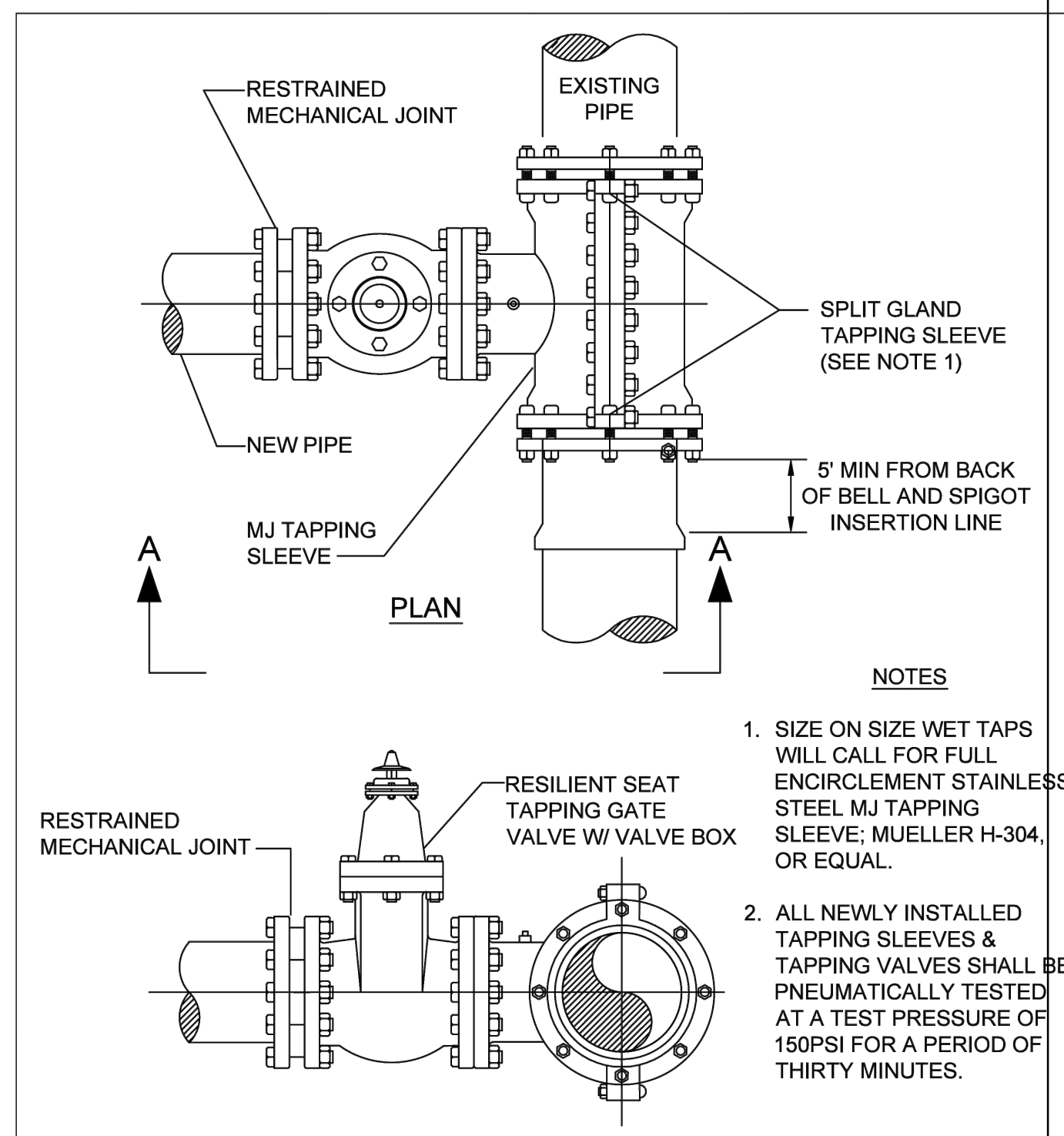
CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 402



- NOTES:**
- ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
  - NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
  - EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH SHALL BE BURIED APPROXIMATELY 3\"/>

**WATER SERVICE CONNECTION DETAIL**

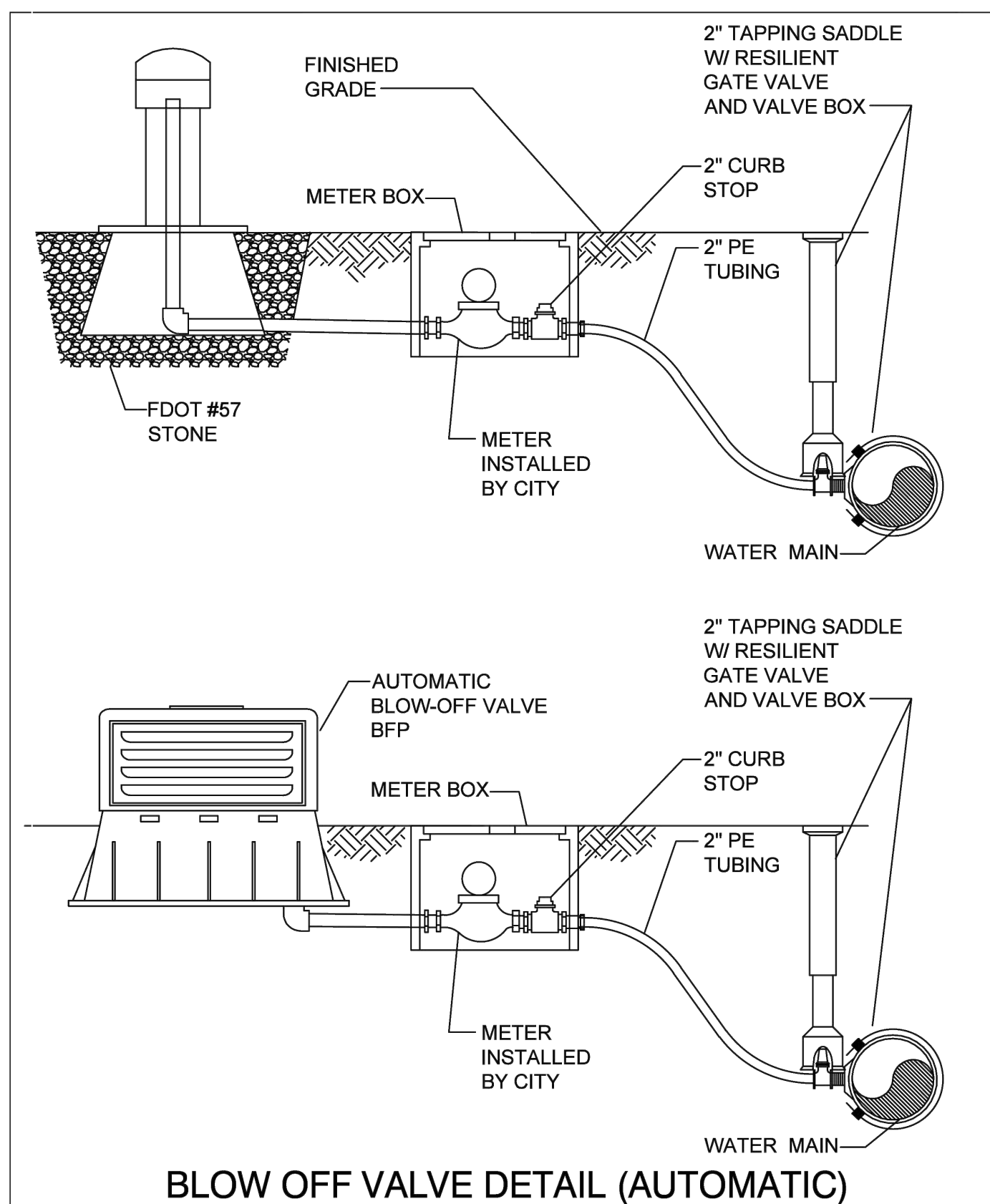
CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 405



- NOTES:**
- SIZE ON SIZE WET TAPS WILL CALL FOR FULL ENCIRCLEMENT STAINLESS STEEL MJ TAPPING SLEEVE; MUELLER H-304, OR EQUAL.
  - ALL NEWLY INSTALLED TAPPING SLEEVES & TAPPING VALVES SHALL BE PNEUMATICALLY TESTED AT A TEST PRESSURE OF 150PSI FOR A PERIOD OF THIRTY MINUTES.

**SECTION A - A**  
**WATER AND RECLAIMED WATER MAINS WET TAP TIE-IN DETAIL**

CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 406



**BLOW OFF VALVE DETAIL (AUTOMATIC)**

CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 403 A

IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

This item has been digitally signed and sealed by Marci D Chandler on the date adjacent to the seal. Signature must be verified on any electronic copies.

PREPARED BY: MARCI D. CHANDLER  
 FL PE #63034  
 1030 HAAS ROAD  
 APOPKA, FL 32712  
 407-866-9530

SCALE: N/A  
 SHEET SCALE: 1\"/>

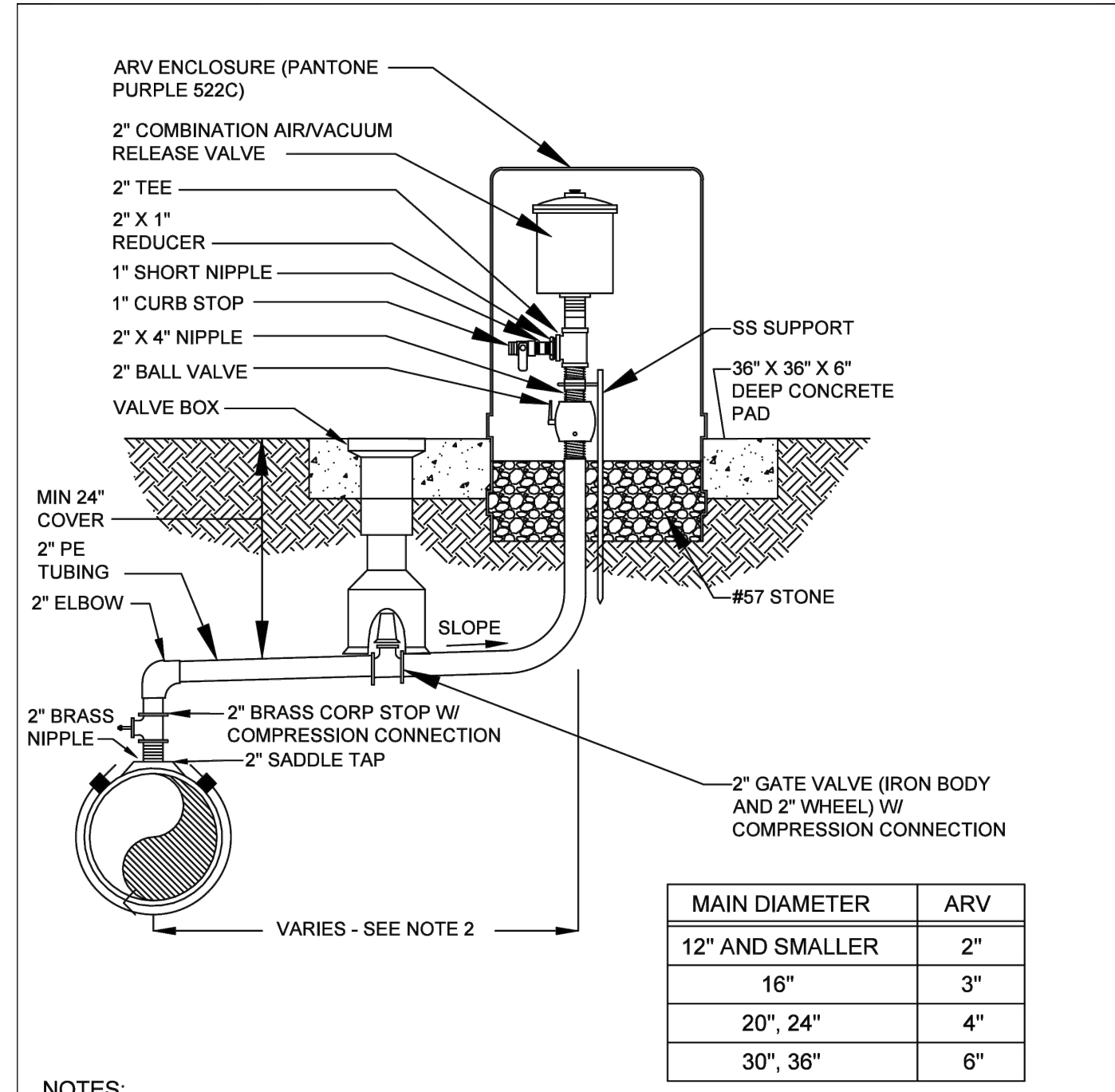
CONSTRUCTION/REV REVISIONS

CLIENT: GCC  
 PROJECT: GCC  
 APOPKA, FL  
 TITLE: UTILITY DETAILS

DRAWN BY: JRM  
 ENGINEER: MDC  
 DATE: JULY 2025  
 ISSUED FOR: CONSTRUCTION

UTILITY DETAILS

C-24



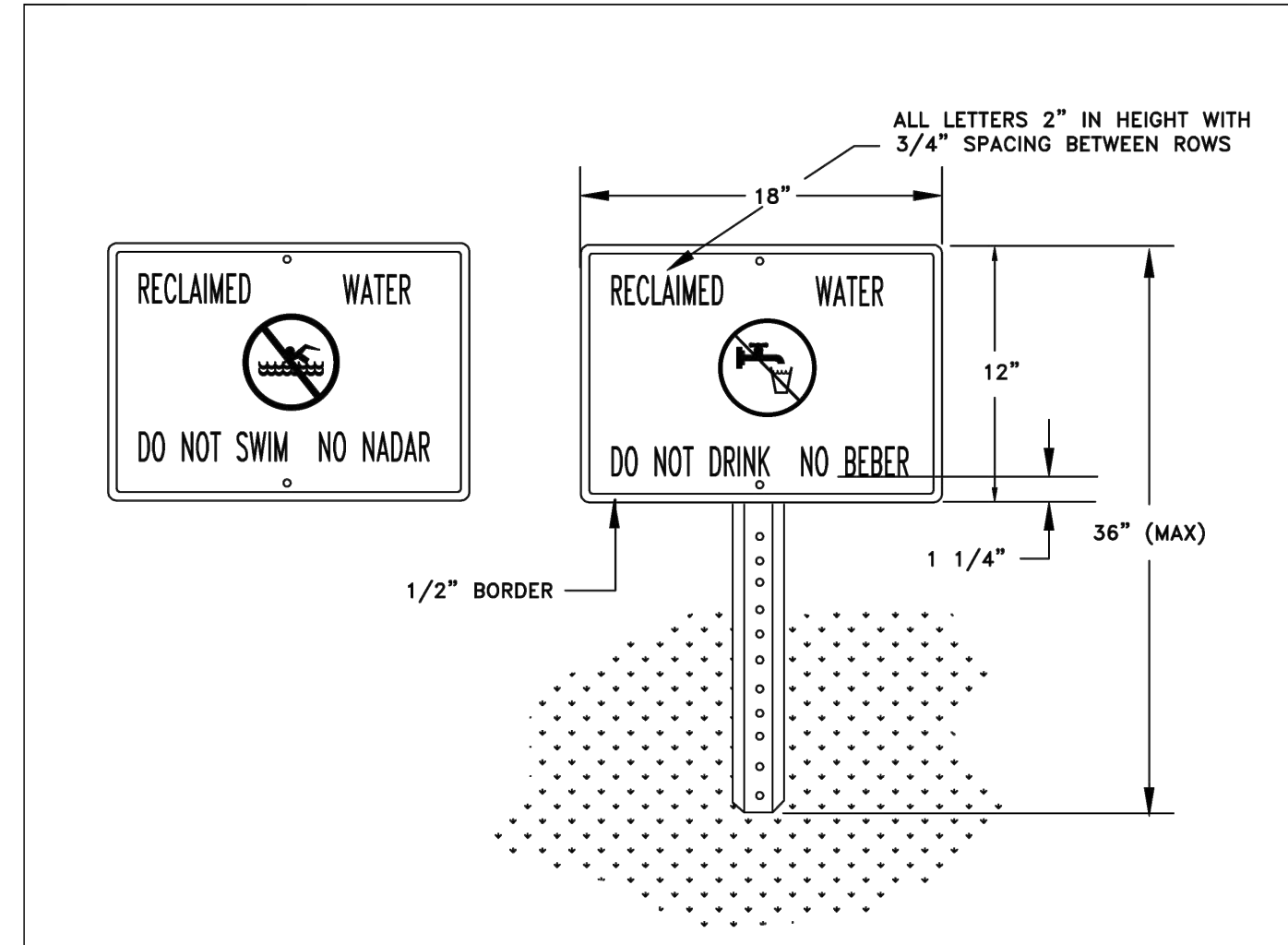
NOTES:  
 1. FOR RECLAIMED WATER USE ONLY.  
 2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE R/W LINE AS POSSIBLE  
 3. ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLOSURE.  
 4. LOCATE ARV ENCLOSURE WITHIN 6" OF R/W LINE.

**OFFSET COMBINATION AIR/VACUUM  
 RELEASE VALVE DETAIL - RECLAIMED WATER ONLY**

CITY OF APOPKA  
 DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 113



ALL LETTERS 2" IN HEIGHT WITH 3/4" SPACING BETWEEN ROWS

NOTES:  
 1. HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.  
 2. BACKGROUND SHALL BE WHITE. LETTERS AND FIGURES SHALL BE BLACK. PROHIBITIVE SYMBOL SHALL BE RED.  
 3. ENGINEERING GRADE REFLECTIVE MATERIALS SHALL BE USED.  
 4. POST SHALL BE U CHANNEL 12 FT. 2 LB. HOT ROLLED HIGH TENSILE RAIL OR BILLET STEEL, HOT DIP GALVANIZED PER ASTM A-123.  
 5. MOUNTING HARDWARE SHALL BE STAINLESS STEEL.  
 6. SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY APPROVED ENGINEERING PLANS AND/OR AS APPROVED BY PUBLIC SERVICES DEPARTMENT.

**RECLAIMED WATER ADVISORY SIGN**

CITY OF APOPKA  
 DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 115

This item has been digitally signed and sealed by Marci D Chandler on the date adjacent to the seal.  
 Signature must be verified on any electronic copies.

PREPARED BY: MARCI D. CHANDLER  
 FL PE #63034  
 1030 HAAS ROAD  
 APOPKA, FL 32712  
 407-866-9530

SCALE: N/A  
 VERIFY SCALE  
 BAR IS ONE-HALF INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/REV REVISIONS

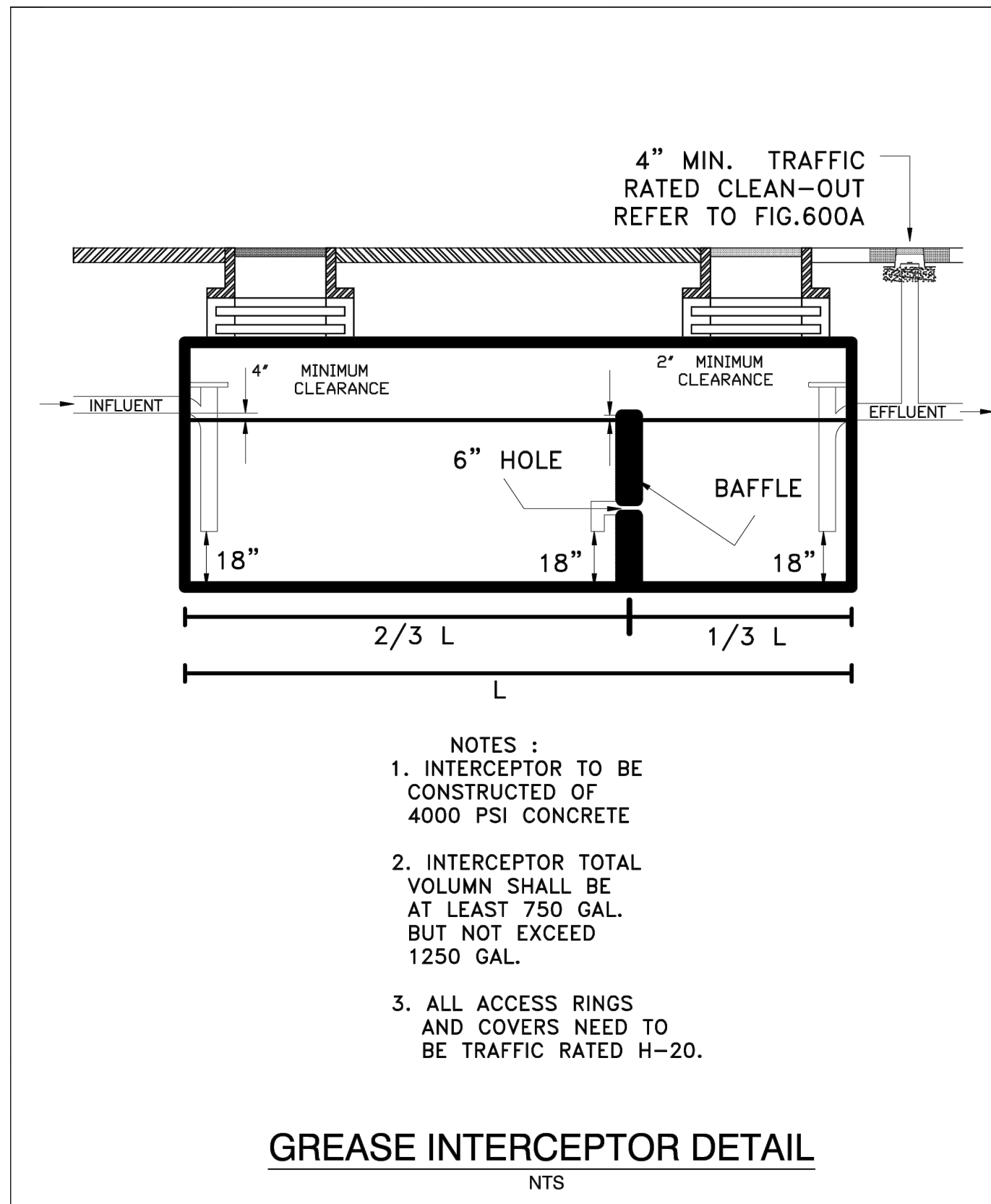
CLIENT: GCC  
 PROJECT: GCC APOPKA, FL  
 TITLE: UTILITY DETAILS

ENGINEER: MDC  
 DATE: JULY 2025  
 ISSUED FOR: CONSTRUCTION

UTILITY DETAILS

C-25

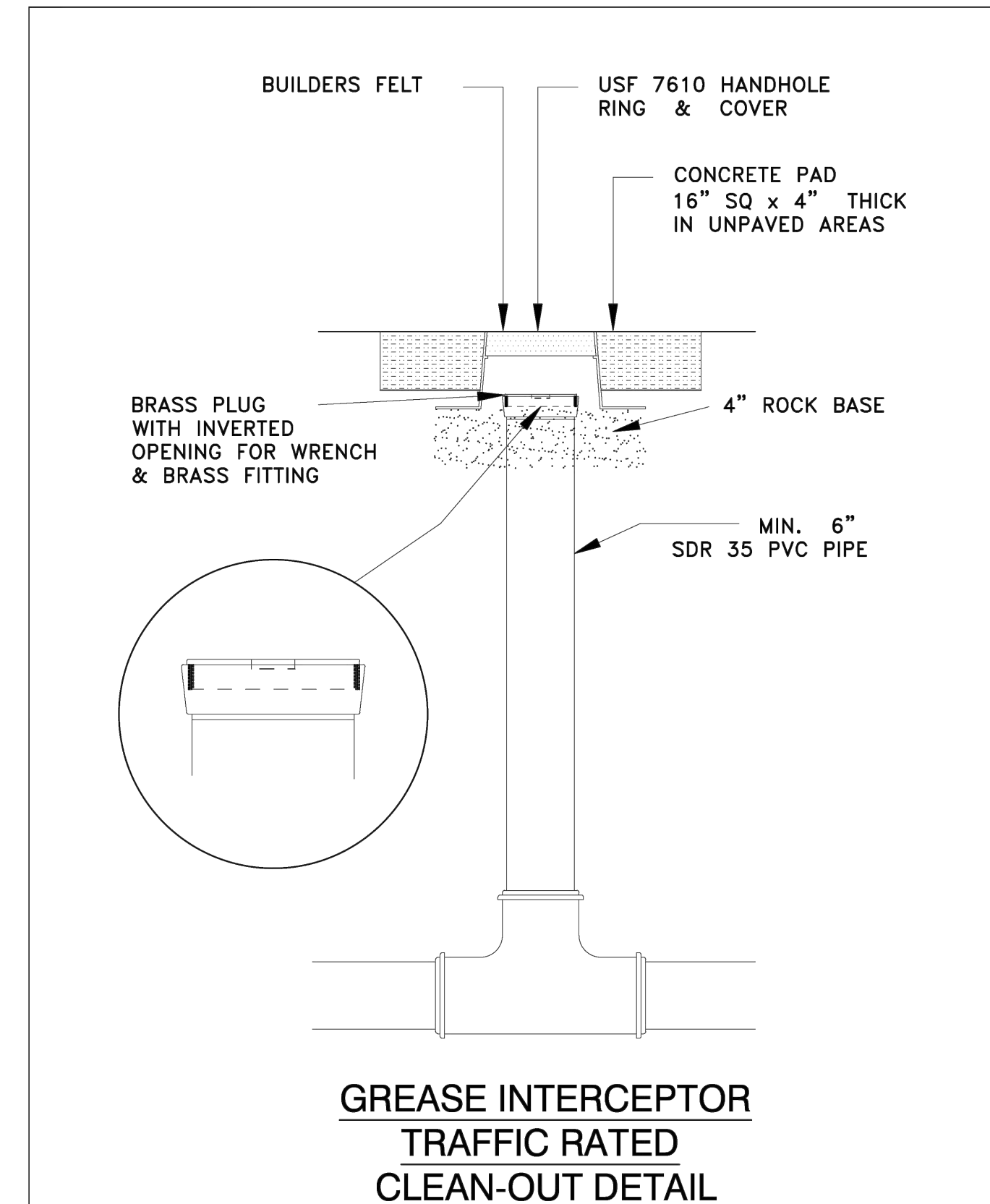
IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

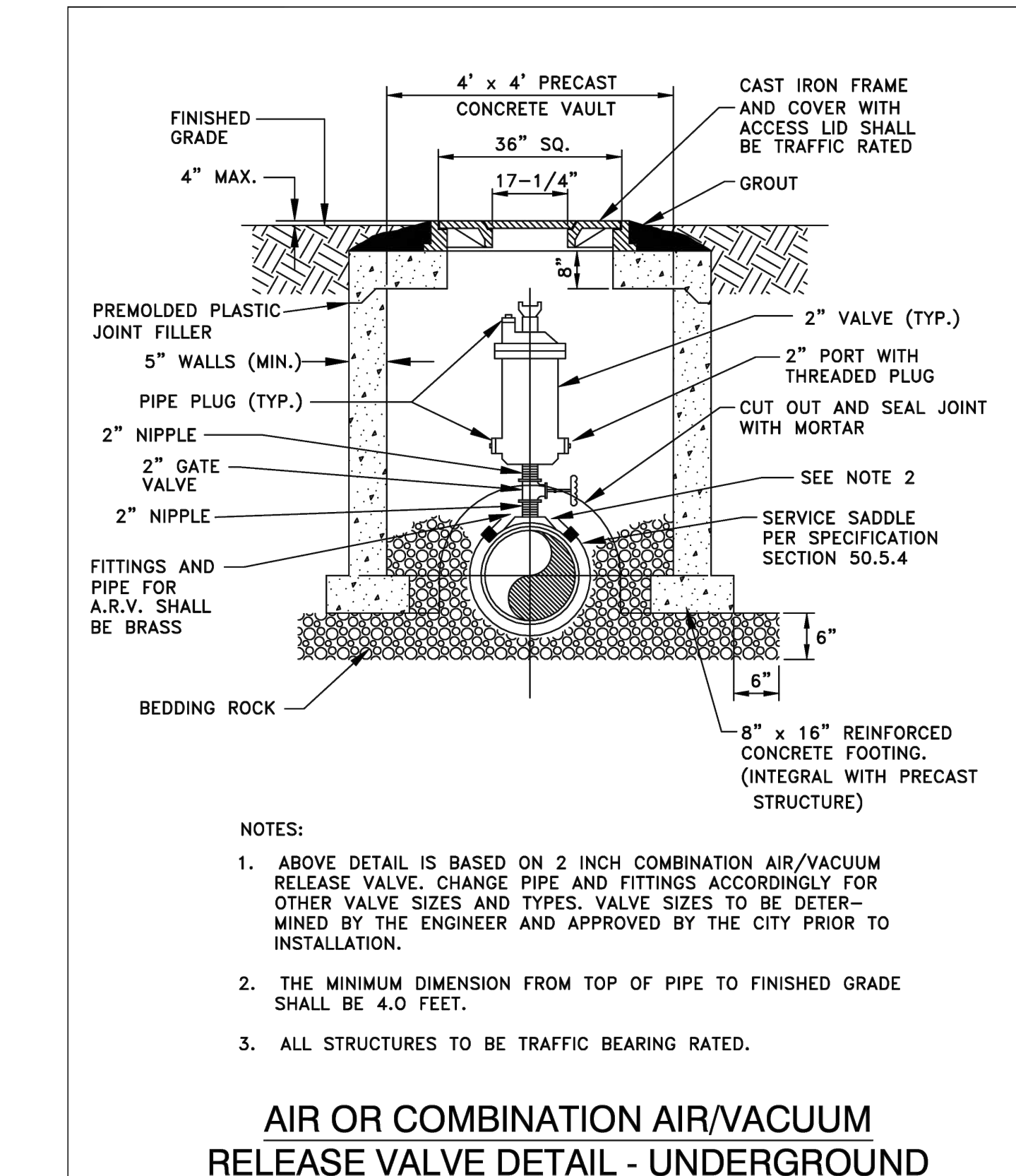
FIG. 600



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

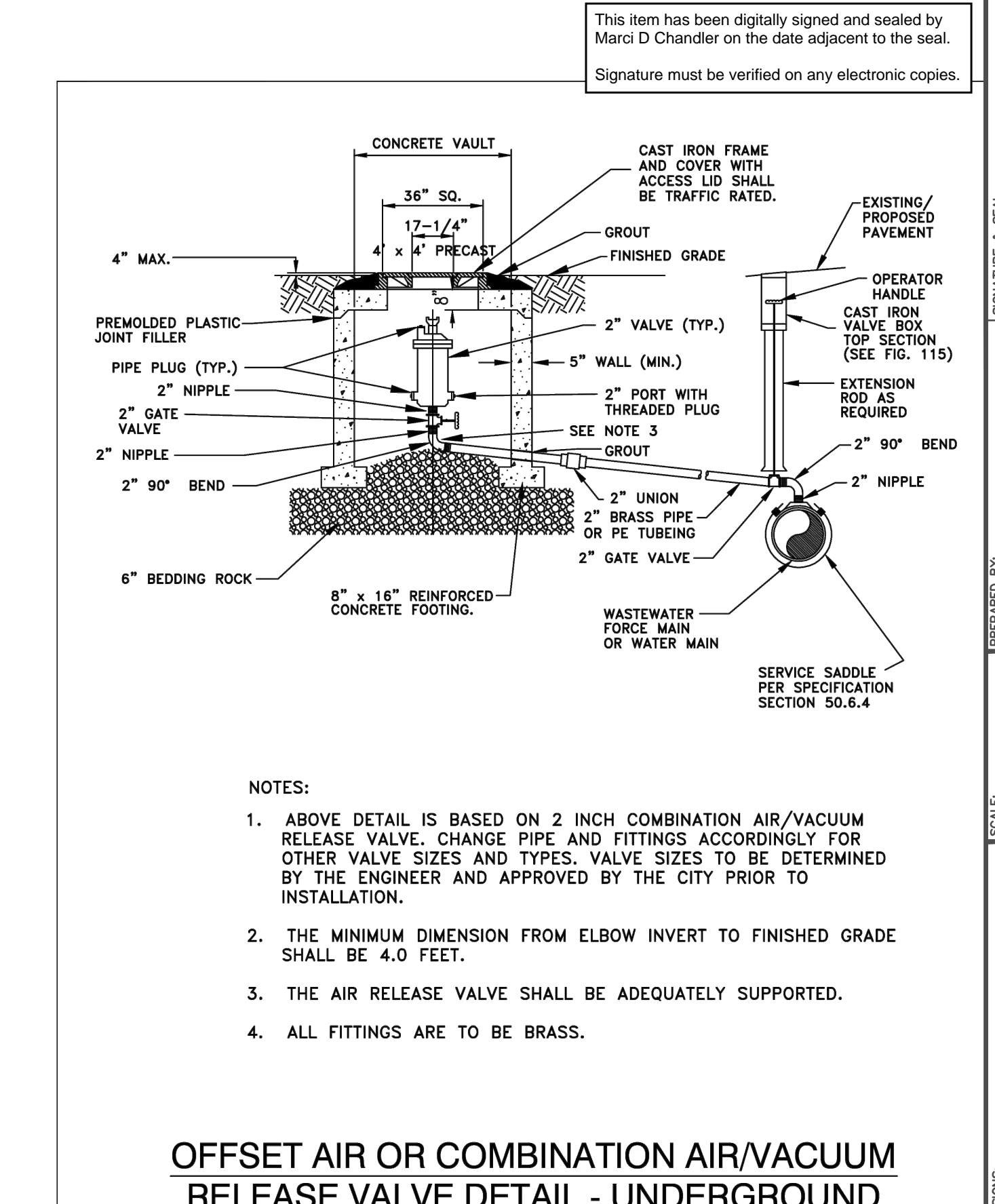
FIG. 600 A



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

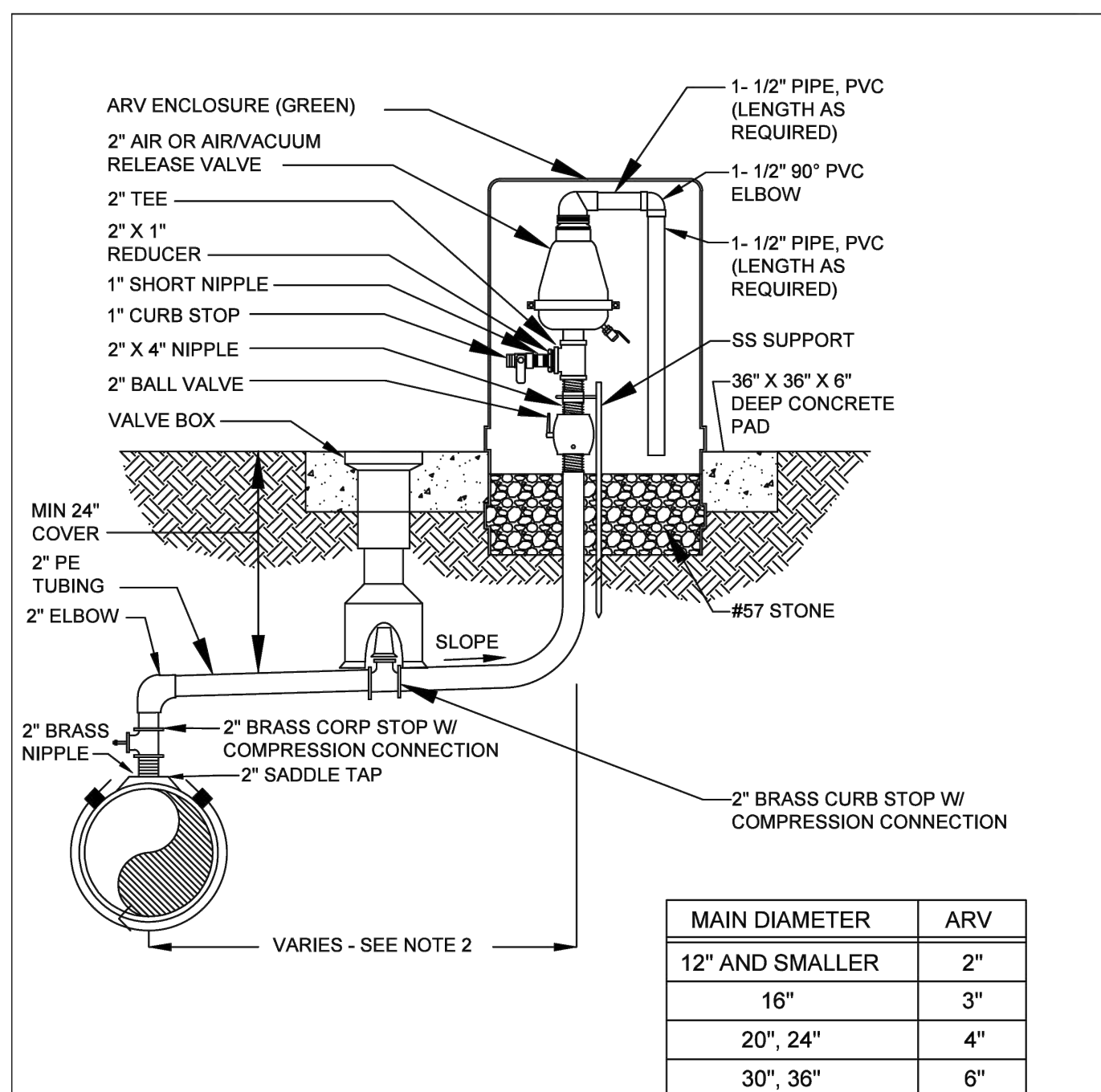
FIG. 119



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

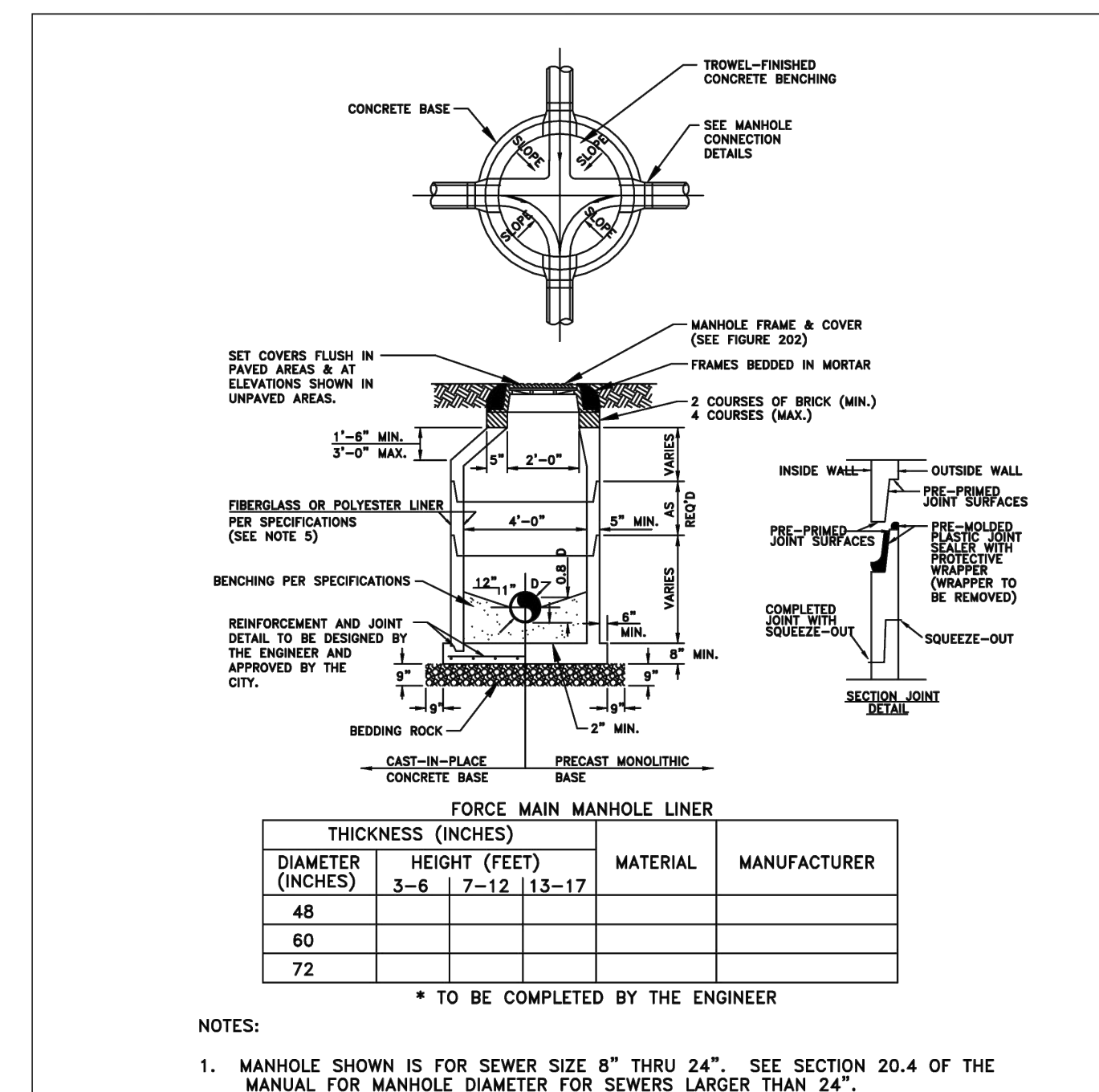
FIG. 120



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

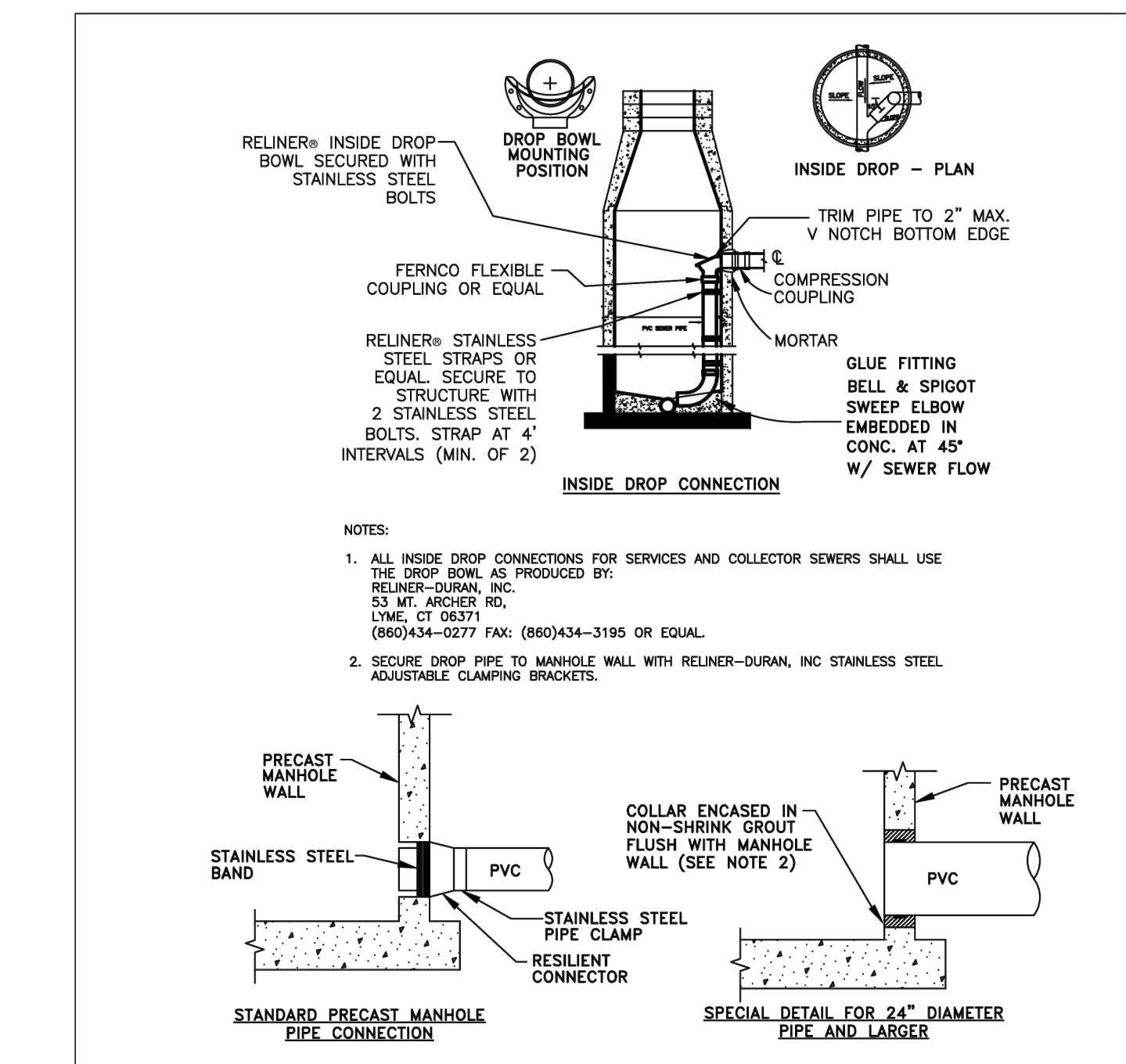
FIG. 114



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

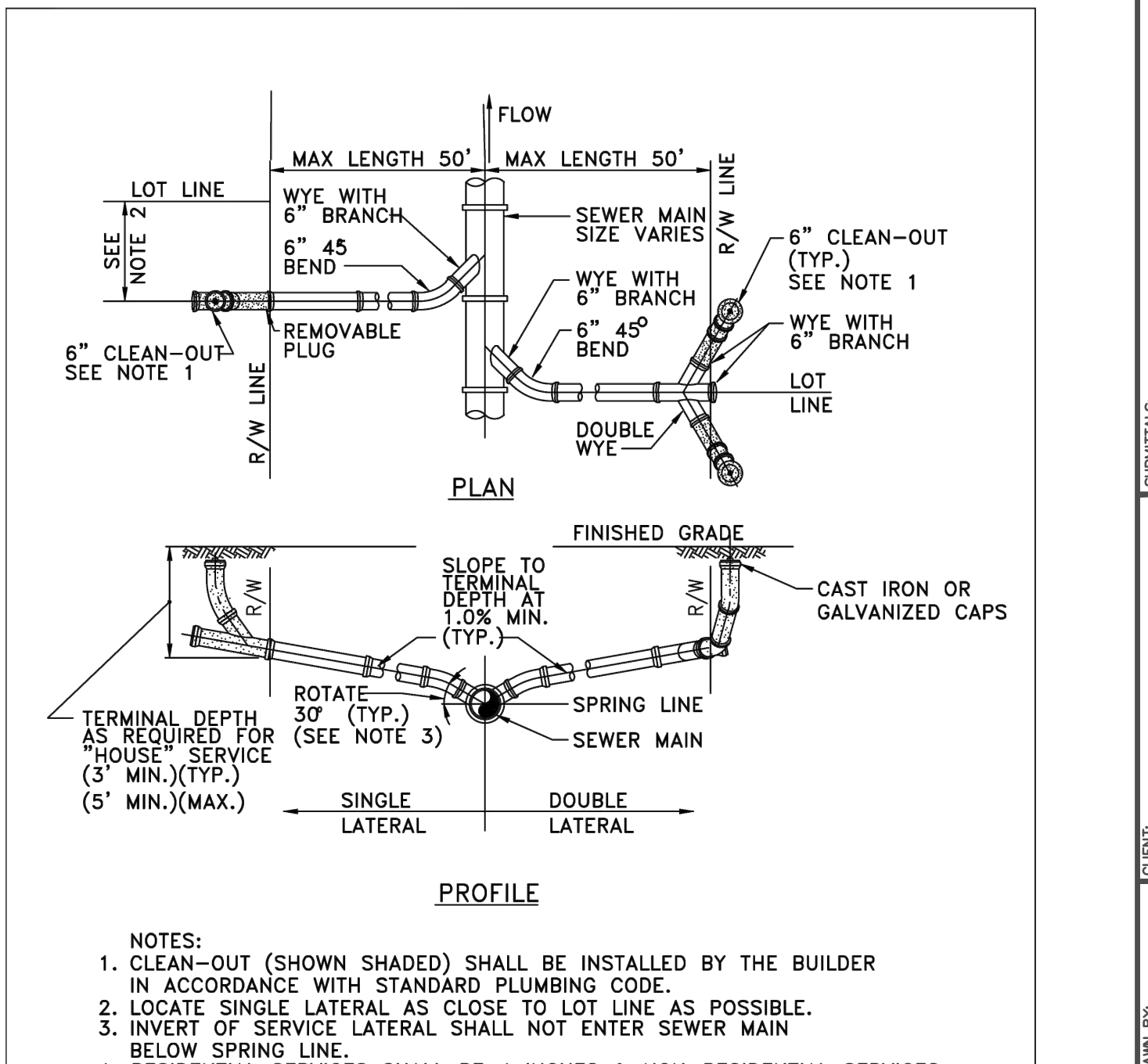
FIG. 200



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 201



CITY OF AOPKA  
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 204

IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF AOPKA AT 407-703-1700

PREPARED BY: MARCI D. CHANDLER  
FL PE #63034  
1030 HAAS ROAD  
APOPKA, FL 32712  
407-866-9530

SCALE: N/A

CHECKED BY: [Signature]

DATE: [Date]

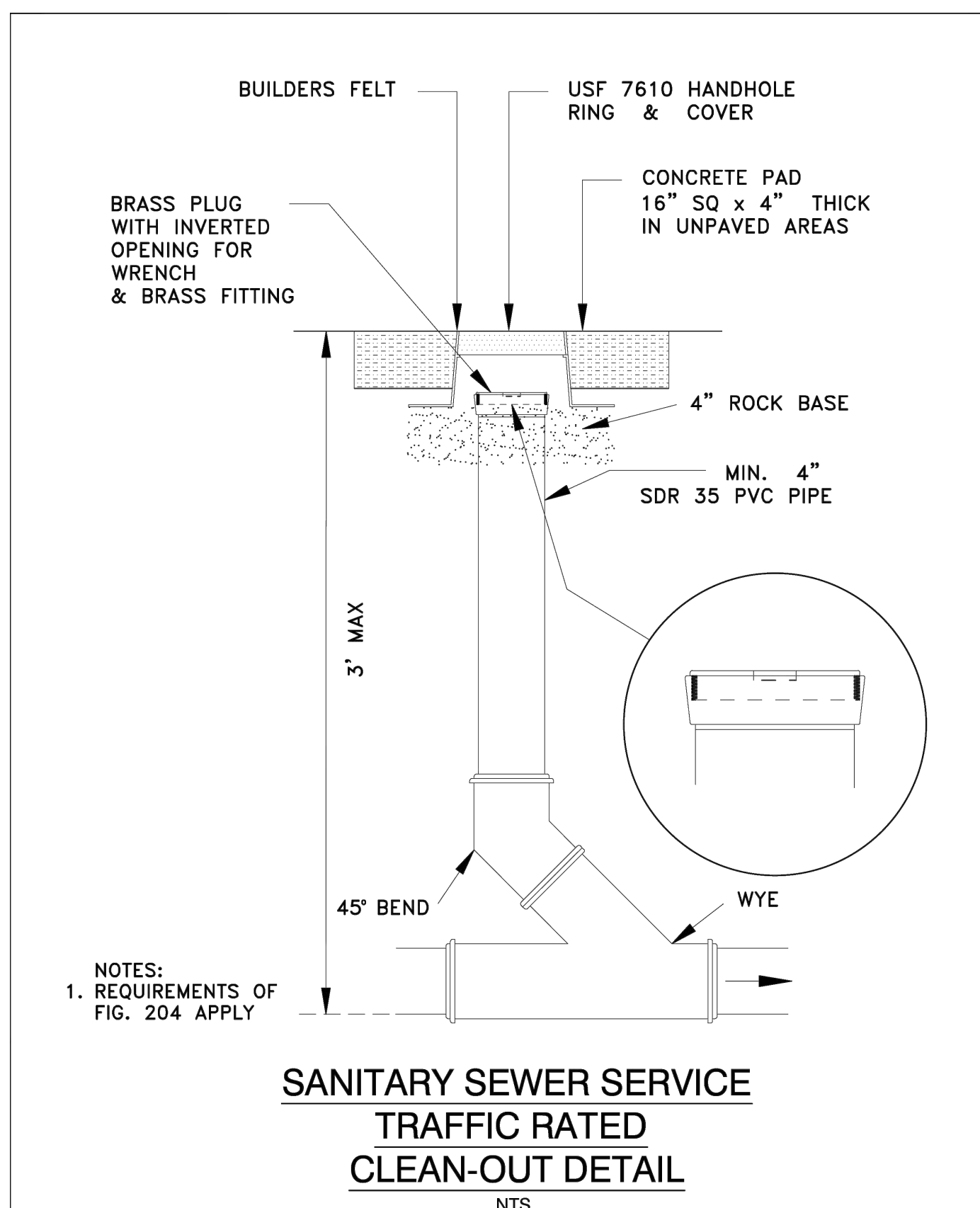
PROJECT: APOPKA, FL

TITLE: UTILITY DETAILS

CONSTRUCTION

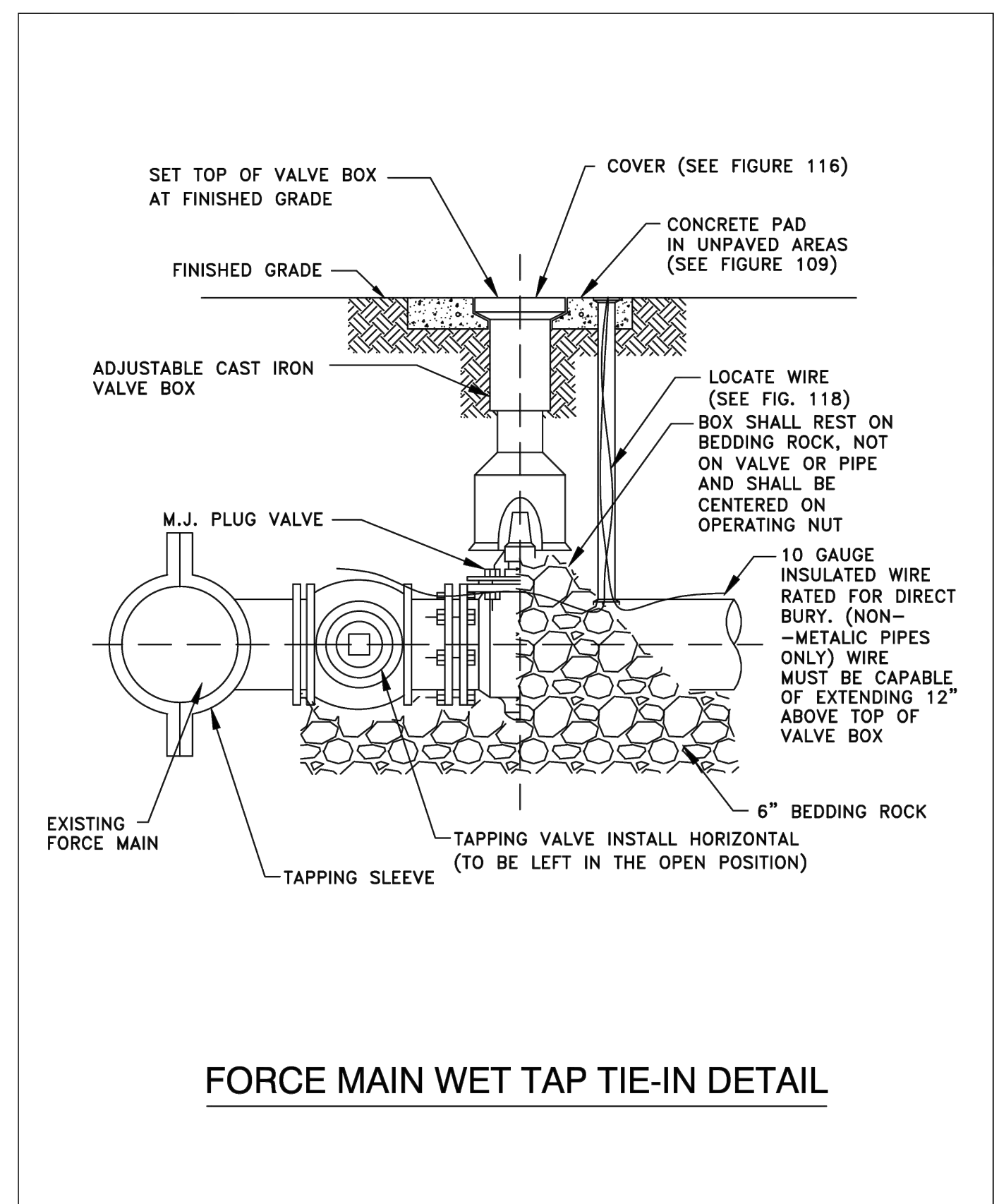
C-26

This item has been digitally signed and sealed by Marc D Chandler on the date adjacent to the seal. Signature must be verified on any electronic copies.



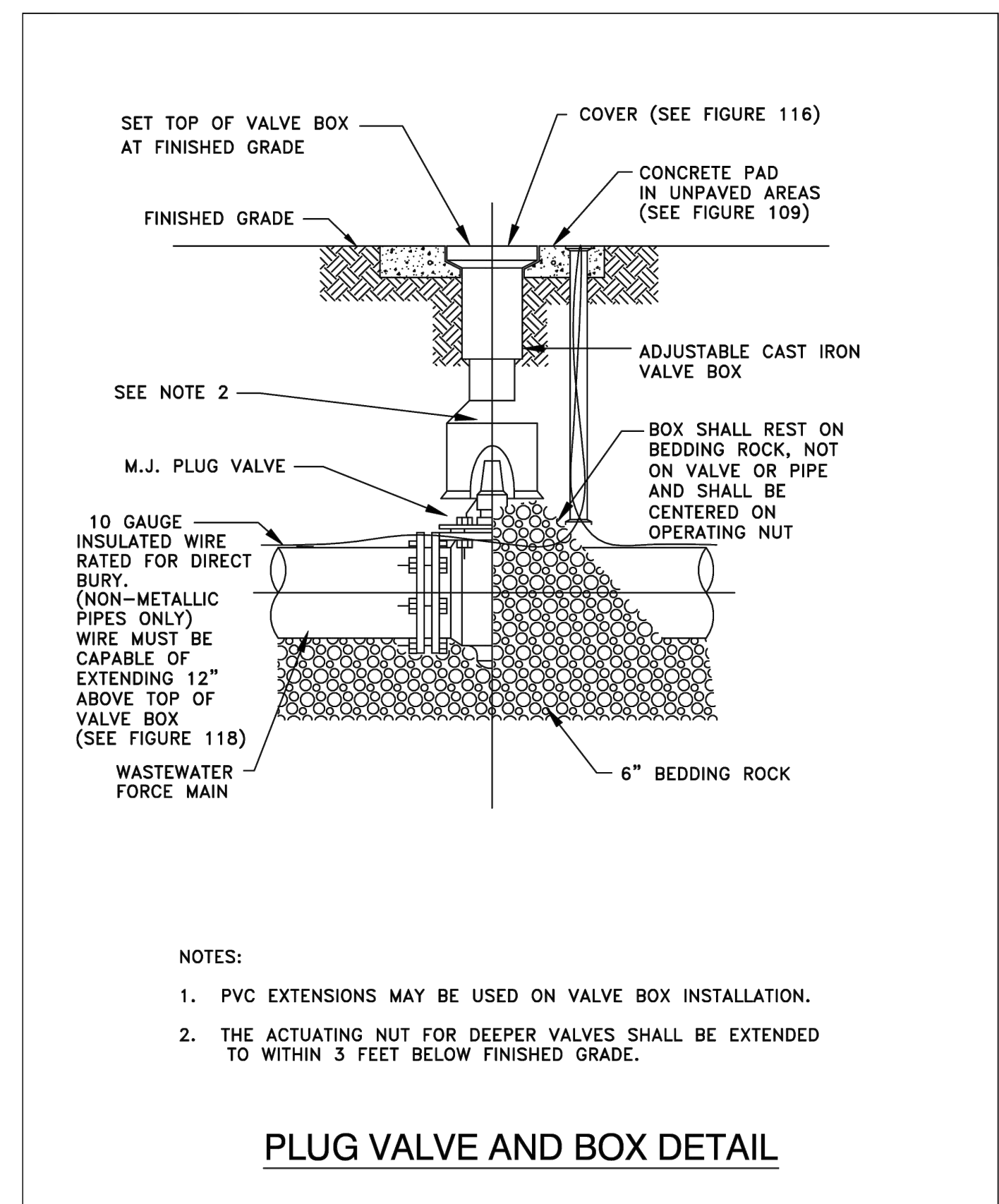
**SANITARY SEWER SERVICE  
TRAFFIC RATED  
CLEAN-OUT DETAIL**  
NTS

CITY OF AOPKA  
DESIGN ENGINEERING DIVISION  
JANUARY 2014  
FIG. 205



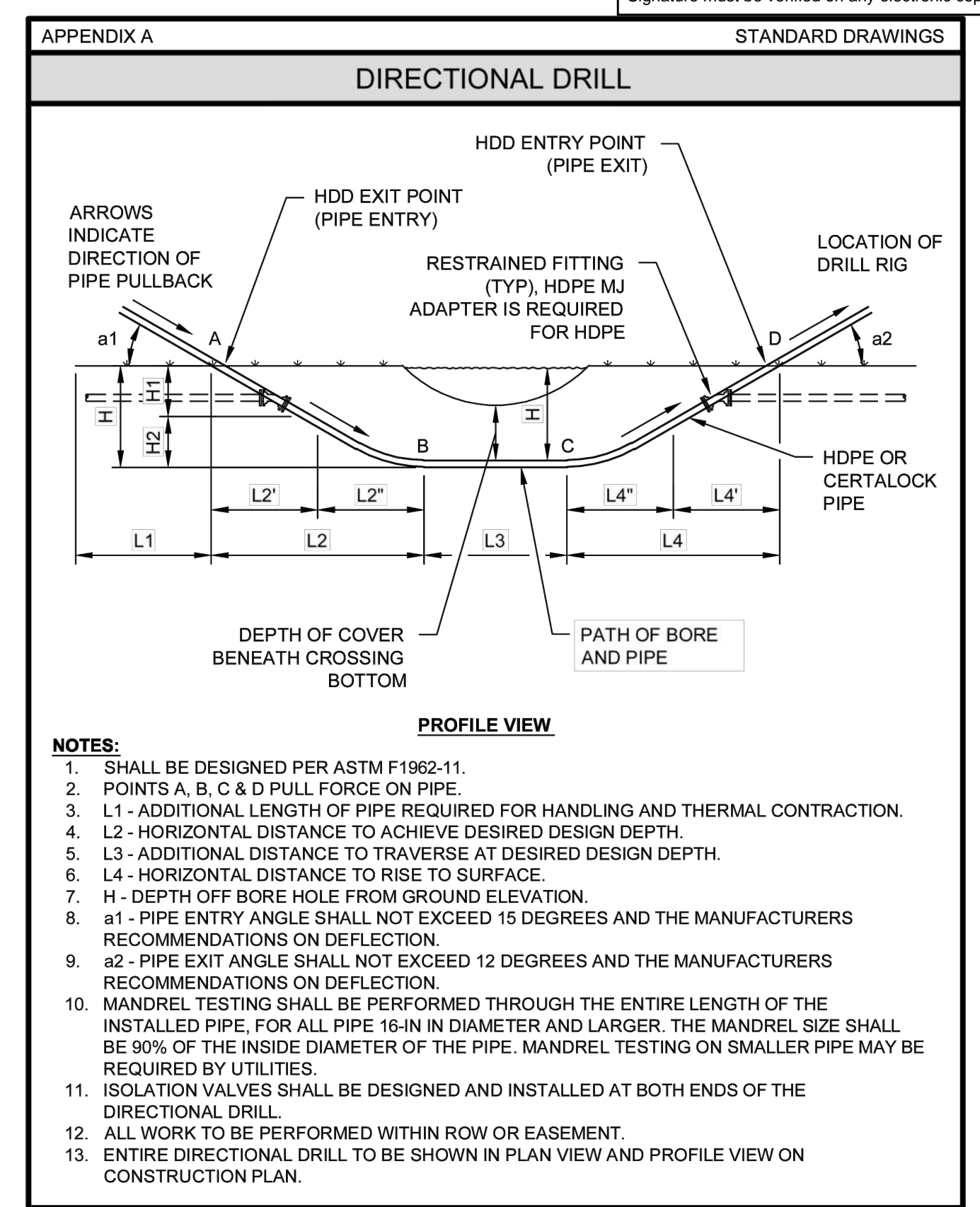
**FORCE MAIN WET TAP TIE-IN DETAIL**

CITY OF AOPKA  
DESIGN ENGINEERING DIVISION  
JANUARY 2014  
FIG. 206



**PLUG VALVE AND BOX DETAIL**

CITY OF AOPKA  
DESIGN ENGINEERING DIVISION  
JANUARY 2014  
FIG. 400 A



**ORANGE COUNTY UTILITIES  
STANDARDS & CONSTRUCTION  
SPECIFICATIONS MANUAL**  
FIGURE A123  
10/10/2021

**RILEY & COMPANY**  
PROJECT NAME: **GOSPEL CENTERED CHURCH**

**LIFT STATION CALCULATIONS**

**PEAK DEMAND CALCULATION IN GPM**

GPD ADF: **600**      PEAK FACTOR: **4**

GPM ADF = GPD ADF ÷ Hours Per Day ÷ 60 Min Per Hour → 600 ÷ 3 Hrs ÷ 60 Min/Hr = **3.33 GPM ADF**

GPM ADF x PEAK FACTOR = GPM PDF → 3.33 x 4 = **13.33 GPM PDF**

PUMP SELECTED FOR: **88 GPM**

**CAPACITY REQUIREMENTS**

∅ = Cycle Time  
Q = Pumping Capacity (GPM)  
Q<sub>i</sub> = Influent Flow Rate (GPM)  
V<sub>min</sub> = Volume Required at PDF to Meet a ∅ Cycle Time  
V<sub>max</sub> = Max Volume Allowed at ADF to Not Exceed a 30 Min Fill Time  
H<sub>min</sub> = Feet of Storage Required to Meet V<sub>min</sub>  
H<sub>max</sub> = Max Feet of Storage Allowed at ADF to Not Exceed V<sub>max</sub>  
V<sub>i</sub> = Actual Storage Volume Used

48" Diameter Wet Well = 94.0 Gallons Per Foot

Control Elevations

TOP OF WW	65.25'
INVERT	60.00'
HLA	60.00'
Lag Pump On	59.50'
Lead Pump On	59.00'
Pumps Off	58.00'
Bottom of WW	55.75'
Depth of WW	9.5'

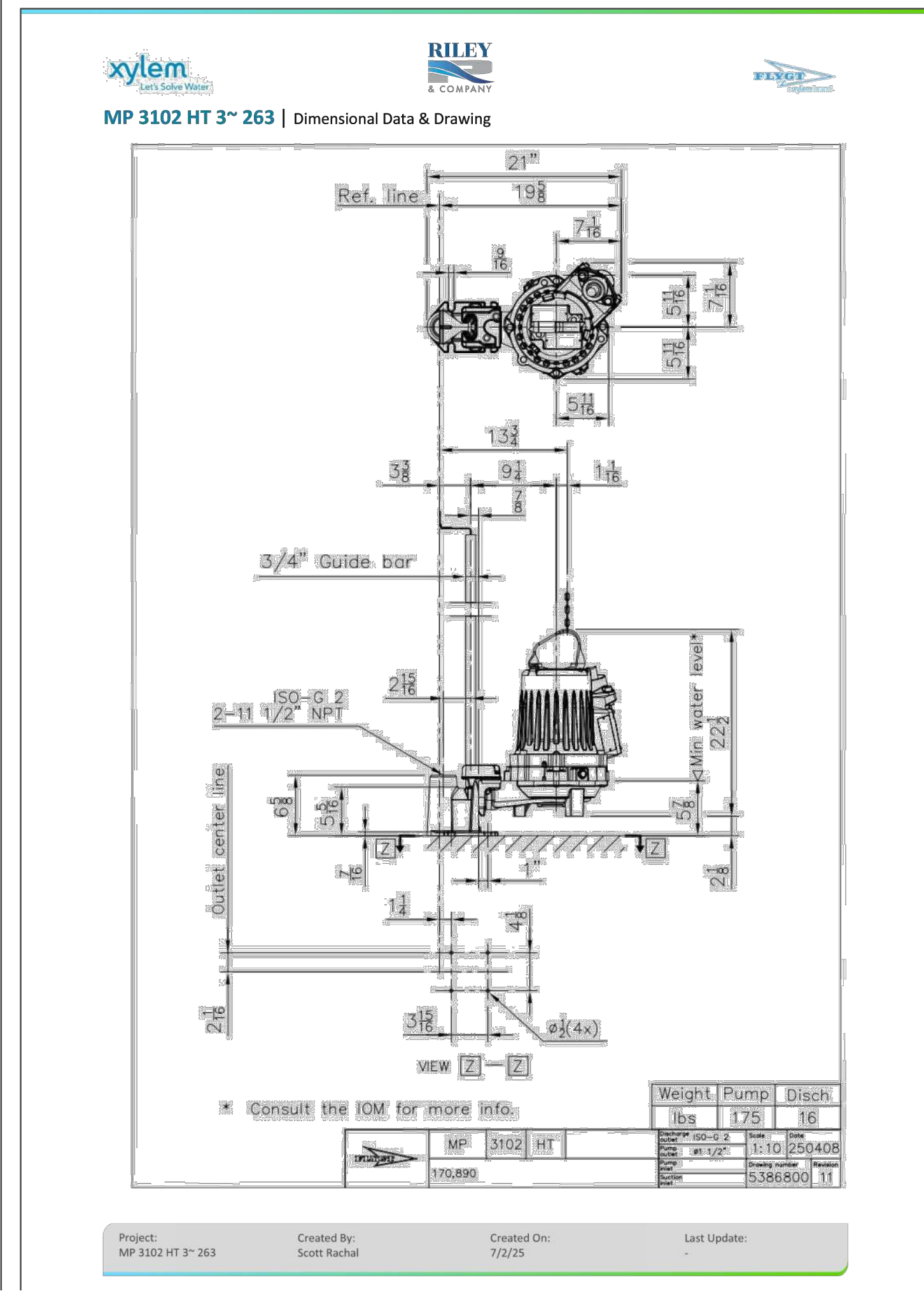
STORAGE VOLUME (V<sub>s</sub>) = V<sub>max</sub> - V<sub>min</sub> = 1.00 Feet of Depth

INFLUENT CONDITION	PUMP CAPACITY (GPM)	RATE OF FLOW (GPM)	DIFFERENCE (GPM)	STORAGE VOLUME (GAL)	PUMP ON TIME (MIN)	PUMP OFF TIME (MIN)	ACTUAL CYCLE TIME (MIN)
	Q <sub>i</sub>	Q	ΔQ	V <sub>s</sub>	V <sub>s</sub> /ΔQ	V <sub>s</sub> /Q <sub>i</sub>	∅
ADF	88.00	3.33	84.67	94.00	1.11	28.20	29.31
PEAK	88.00	13.33	74.67	94.00	1.26	7.05	8.31

**PUMP MODEL & DUTY POINT**

PUMP SELECTION: FLYGT MODEL RCMP3102-263

DESIGN POINT: **88 GPM @ 89' TDH**



IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF AOPKA AT 407-703-1700

PREPARED BY: **MARCI D. CHANDLER**  
FL PE #63034  
1030 HAAS ROAD  
AOPKA, FL 32712  
407-866-9530

SCALE: **N/A**

DATE: **JULY 2025**

PROJECT: **GCC APOPKA, FL**

TITLE: **UTILITY DETAILS**

CLIENT: **GCC**

ENGINEER: **MDC**

ISSUED FOR: **CONSTRUCTION**

**UTILITY DETAILS**

**C-27**

# RILEY & Company, Inc. (H-20 GP)<sup>®</sup>

w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS  
& GUARD PRO IV MONITORING SYSTEM  
(No Substitutions - No Alternates)

RILEY & COMPANY, INC. / GUARD PRO IV MONITORING SYSTEM:  
GUARD PRO IV offers a remote control and maintenance solution which allows you to create a decentralized system to monitor and control devices. Up to eight (8) different lift station inputs can be monitored and up to eight (8) outputs can be controlled remotely. The GUARD PRO IV can also notify up to eight (8) different recipients via sms text and/or email.

## PUMPS: SPECIFICATION

Submersible grinder pumps shall be installed in the H-20 FRP wet well utilizing a dual slide rail system.

The pumps shall be capable of pumping materials normally found in domestic and commercial wastewater.

Stator winding shall be open type with Class H insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts and other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with a magnetic contactor coil in the control panel. If the winding temperature exceeds 140° C, the motor shall shut off but shall automatically reset when the temperature drops below the threshold. Two heat sensors shall be used on 3 phase motors. Upper & lower mechanical seals shall have Silicon Carbide vs Silicon Carbide.

## CONTROL PANEL: SPECIFICATION

The Enclosure shall be NEMA 4X, minimum 30" high x 20" wide x 10" deep with a 3 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting. The following components shall be mounted through the enclosure:  
1- ea. Red Alarm Beacon (Light) LED 360 Degree viewable range, NEMA 4X  
1- ea. Alarm Horn (minimum 95 dCB), ROHS 3 Compliant, NEMA 4X  
1- ea. Generator Receptacle w/ weatherproof cover 60A Minimum. Shall meet UL 1682, UL 1686 and UL486E Compliance.

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

- 1- ea. Riley & Co. Guard Pro IV Monitoring Unit
- 2- ea. IEC style Motor Contactors
- 1- ea. Volt Monitor (1 Ph) Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Alternator w/ Pump Lead Switch
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger (UPS) - 24 Hr Min.
- 20- ea. Terminals For Field Connections
- 6- ea. Terminals For Motor Connections (Single Phase Only)
- 7- ea. Grounding Lugs
- 1- ea. Lightning and Surge Protection shall meet the UL 1449 2nd Edition

The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker - UL489
- 1- ea. Emergency Circuit Breaker - UL 489
- 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker & GFCI Circuit Breaker - UL 489
- 1- ea. GFI Duplex Convenience Outlet - NEMA 5-15R
- 2- ea. Elapsed Time Meter, Non-Resettable

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained within a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting. The control panel must be manufactured in-house by the lift station supplier and be a TUV (UL508A Certified) facility.

## WET WELL: SPECIFICATION

Wet Well FRP Wall Laminate must be designed to withstand wall collapse or buckling based on third party specifications and the assumptions below.

- \*Hydrostatic Pressure: 62.4 lbs. Per SQ Ft.
- \*Saturated Soil Weight: 120 lbs. Per Cubic Ft.
- \*Soil Modulus: 700 lbs Per SQ Ft.
- \*Pipe Stiffness as Specified in ASTM D 3753

The wet well FRP laminate must be constructed to withstand or exceed two times the assumed loading for the complete depth of the structure.

The cover shall be constructed of 1/4 inch thick finished aluminum, diamond plate pattern with 300 series stainless steel hardware. The hatch shall have a positive means of locking the door open in the vertical position via a hold open arm and shall be made of a non-corrosive material. The cover shall be mounted with minimum of six 300 series stainless steel fasteners. The access hatch cover shall have a lift handle and a means of locking.

The prefabricated FRP lift station manufacturer shall guarantee the prefabricated lift station per approved drawings for a period of one year from the date of delivery.

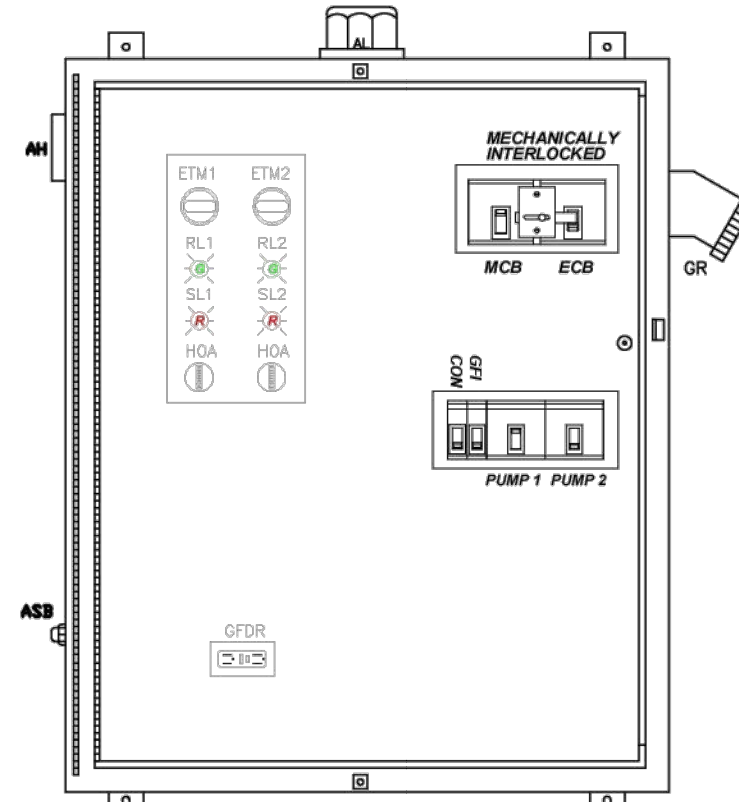
## INSPECTION & TESTING:

A factory representative shall be provided for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of the complete system. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor and cable is intact. The pumps and the controls shall be checked for mechanical reliability and proper operation.

## EXECUTION:

Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the engineered drawings.

STATION DESIGN CONDITIONS	
PRIMARY PUMP CAPACITY	88 GPM
PRIMARY TDH	89 'TDH
RUN-OUT PUMP CAPACITY	103 GPM
RUN-OUT TDH	24 'TDH
PUMP MODEL #	FLYGT RCMP3102-263
R.P.M.	3520
HORSEPOWER	6.0
ELECTRICAL VOLTS / PHASE	230V/3Φ
PUMP DISCHARGE SIZE	2"
STATION ELEVATIONS AND DIMENSIONS	
WET WELL DIAMETER (A)	48"
INVERT DIAMETER (B)	8"
100 YEAR FLOOD ELEVATION	n/a
FINISHED GRADE (C)	64.50'
TOP OF WET WELL (D)	65.25'
INLET / INVERT (E)	60.50'
HIGH LEVEL ALARM (HLA) (F)	60.00'
2nd PUMP ON (LAG) (G)	59.50'
1st PUMP ON (LEAD) (H)	59.00'
PUMPS OFF (OFF) (I)	58.00'
BOTTOM OF WET WELL (J)	55.75'
GUIDE RAIL DIAMETER (K)	3/4"
DISCHARGE PIPE DIAMETER (L)	3"
F.M. PIPE DIAMETER (M)	3"
REDUCER (if Required) (N)	n/a
STATION MANUFACTURING MATERIALS	
DISCHARGE/RISER PIPE	HDPE
INLET PIPE	PER EOR
GUIDE RAIL	304 SS
WET WELL	FRP ASTM D-3753
WET WELL HATCH COVER	300 LBS PSF ALUM
CABLE BRACKET	304 SS
LIFTING CHAIN	304 SS
PLUG VALVE	CAST IRON
SWING CHECK VALVE	CAST IRON
VALVE BOX	FRP
VALVE BOX HATCH COVER	300 LBS PSF ALUM
STATION VALVE BOX SIZES	
(36" x 36" x 36" DEEP)	FOR 2" DISCHARGE
(48" x 48" x 36" DEEP)	FOR 3" DISCHARGE
(48" x 48" x 36" DEEP)	FOR 4" DISCHARGE
STATION HATCH OPENINGS	
WET WELL DIA.	36" 48" 60"
	27" x 20" 36" x 24" 36" x 30"
CONCRETE BALLAST REQUIREMENTS	
CUBIC YARDS OF CONCRETE REQUIRED (V)	2.79 yds <sup>3</sup>
CIRCUMFERENCE DIMENSION - WIDTH (W)	12.0"
CIRCUMFERENCE DIMENSION - HEIGHT (X)	30.0"
BASE SLAB DIMENSION - HEIGHT (Y)	12.0"
BASE SLAB DIMENSION - LENGTH & WIDTH (Z)	72.0"



1. OUTER DOOR REMOVED TO SHOW SHADOWN FRONT LAYOUT FROM TYPE 4X ENCLOSURE. ALL HARDWARE STAINLESS STEEL. ACTUAL LAYOUT/OPTIONS MAY VARY.  
2. ENCLOSURE SIZE WILL BE 30" X 20" X 10" MINIMUM. CONTROL PANEL SHALL HAVE A 3 POINT LATCHING SYSTEM.

**PRIVATE  
SANITARY SEWER  
PUMP STATION**

IN CASE OF EMERGENCY CONTACT THE  
FOLLOWING NUMBERS:

FACILITY OWNED BY:  
NAME: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

FACILITY MAINTAINED BY:  
NAME: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

STATION NUMBER: \_\_\_\_\_

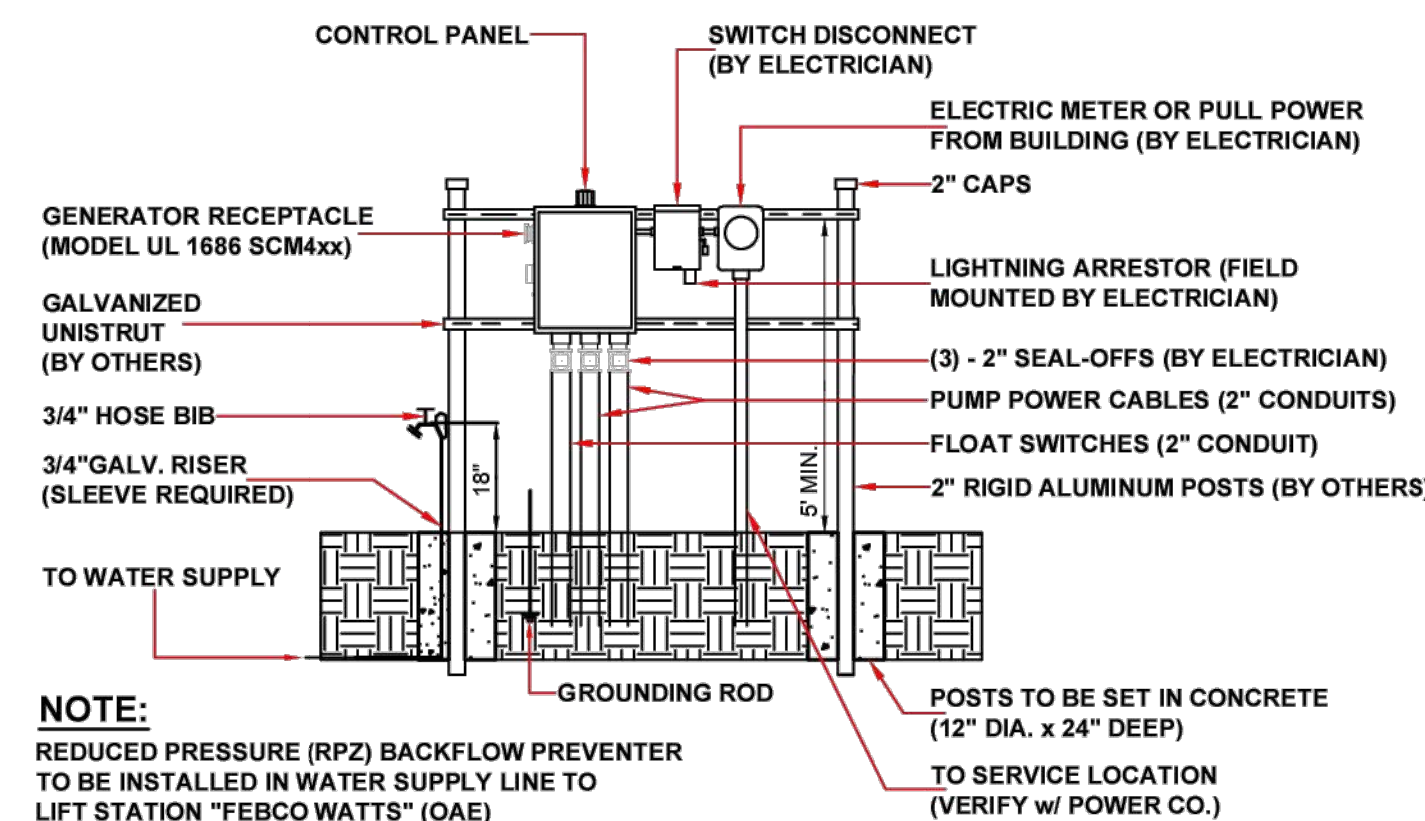
NOTE: CONTRACTOR MUST SUPPLY  
INFORMATION SIGN AT START-UP.

**LIFT STATION WILL BE PRIVATELY  
OWNED AND MAINTAINED**

**PRIOR TO START-UP, OWNER MUST HAVE A  
MINIMUM 1 YR. PREVENTIVE MAINTENANCE  
CONTRACT WITH A REPUTABLE LIFT STATION  
MAINTENANCE COMPANY.**

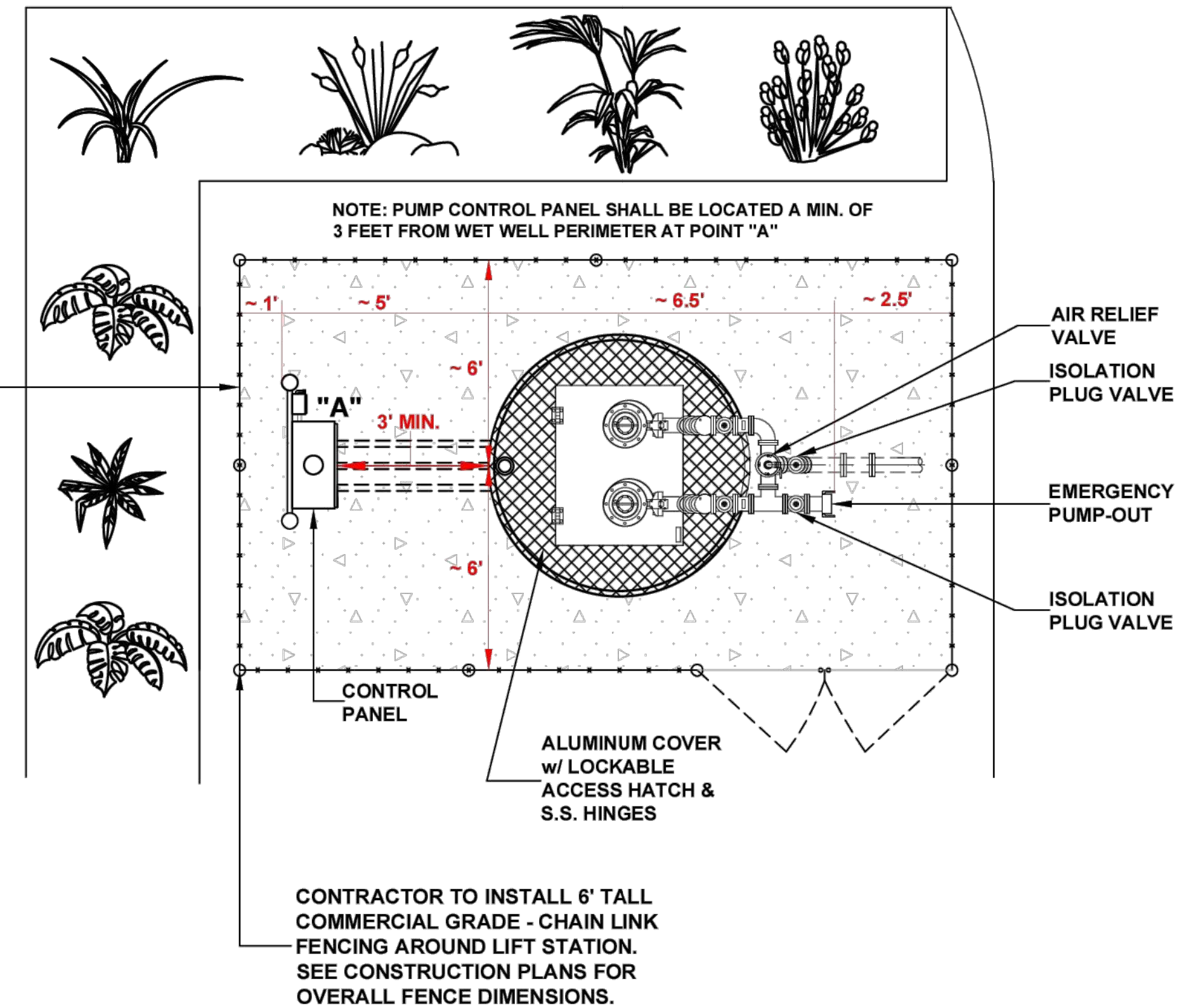
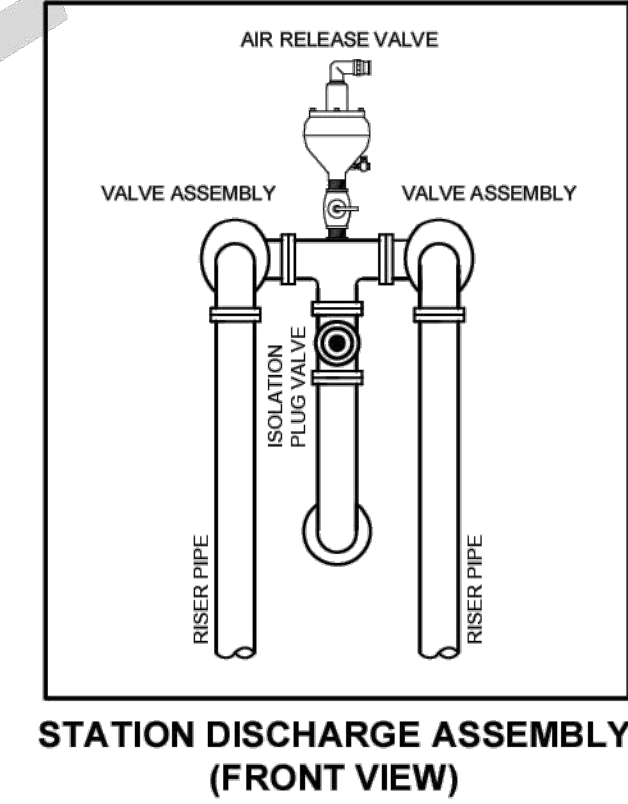
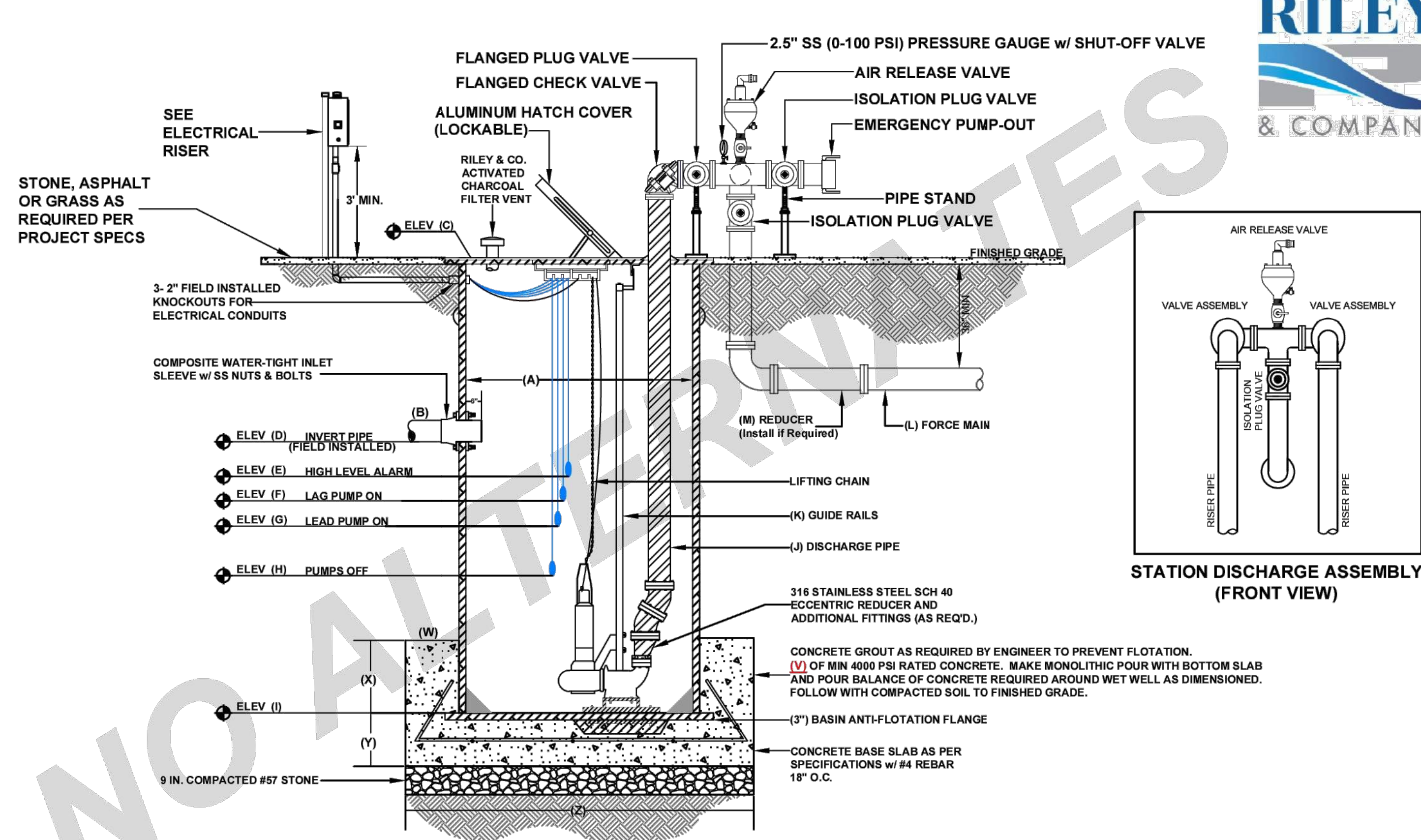
## ELECTRICIAN NOTES:

1. DRAWING NOT TO SCALE
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES
3. ELECTRICIAN TO INSTALL SWITCH DISCONNECT & LIGHTNING ARRESTOR
4. CONTRACTOR SHALL VERIFY POWER SUPPLY PRIOR TO ORDERING EQUIPMENT
5. NEUTRAL TO BE SUPPLIED FOR 3Φ/208-230V OR 1Φ/208-230V
6. EXCEPT FOR THE CONTROL PANEL, ALL EQUIPMENT AND COMPONENTS BY OTHERS



NOTE:  
REDUCED PRESSURE (RPZ) BACKFLOW PREVENTER TO BE INSTALLED IN WATER SUPPLY LINE TO LIFT STATION "FEBCO WATTS" (OAE)

## ELECTRICAL RISER FOR ILLUSTRATION PURPOSES ONLY



\*\*Drawing Not to Scale\*\*  
IF YOU REQUIRE FURTHER CLARIFICATION OF WHAT THIS DOCUMENT REPRESENTS, PLEASE CONTACT THE ADA COORDINATOR OF CITY OF APOPKA AT 407-703-1700

Alignment=ENTRANCE  
 Station=100+00.00  
 Offset=0.00  
 Northing=1605763.46  
 Easting=492724.75

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 OFF:13.14'R  
 STA:100+34.91  
 OFF:0.00'  
 STA:100+36.47  
 OFF:28.14'R

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 E:492695.25

WALL  
 N:1605578.11  
 E:492695.25

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 OFF:110.36'R

STA:101+60.75  
 OFF:30.48'R

STA:101+64.48  
 OFF:38.70'R

STA:102+47.99  
 OFF:104.35'R

STA:101+30.71  
 OFF:11.00'L

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STA:102+49.79  
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 OFF:11.00'L

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 OFF:17.87'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

WALL  
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 E:492767.87

STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

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STA:102+48.75  
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STA:103+60.34  
 OFF:11.00'L

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STA:102+48.75  
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STA:103+60.34  
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 E:492789.78

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 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

WALL  
 N:1605613.78  
 E:492789.78

STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
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WALL  
 N:1605613.78  
 E:492789.78

STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

WALL  
 N:1605613.78  
 E:492789.78

STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

WALL  
 N:1605613.78  
 E:492789.78

STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

WALL  
 N:1605613.78  
 E:492789.78

STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

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WALL  
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 OFF:104.35'R

STA:103+60.34  
 OFF:11.00'L

WALL  
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STA:102+64.58  
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STA:102+48.75  
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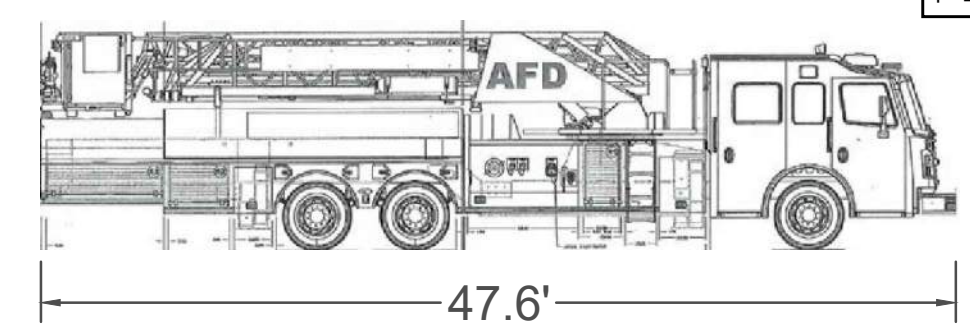
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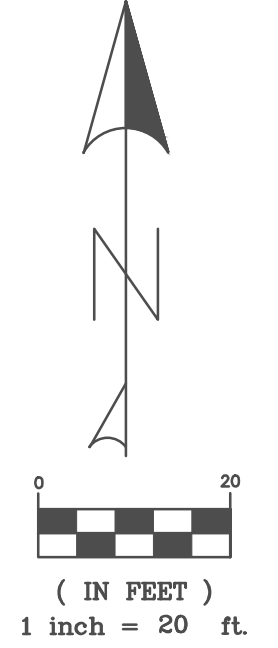
STA:102+64.58  
 OFF:12.79'R

STA:102+48.75  
 OFF:104.35'R

Rosenbauer 100 ft MM Cobra  
 Length: 47.64 ft  
 Width: 8.41 ft  
 Height with Jacks/Stabilizers Deployed: 17.5 ft  
 Height: 11.08ft  
 Steering Angle: 46 degrees  
 Minimum Centerline Radius: 31.41 ft  
 Lock to Lock Time: 6 sec



47.6'



This has not been digitally signed and sealed by  
 Marc D Chandler on the data apparent to the seal.  
 Signature must be verified on any electronic copies.

PREPARED BY:	MARCI D. CHANDLER
FL PE #	63034
ADDRESS	1030 HAAS ROAD APOPKA, FL 32712
PHONE	407-866-9530
SCALE:	1"=20'
CONSTRUCTION/GRID REVISIONS:	
SUBMITTALS:	
CLIENT:	GCC
PROJECT:	GCC APOPKA, FL
DATE:	JULY 2025
ISSUED FOR:	CONSTRUCTION
TITLE:	FIRE ACCESS PLAN
DRAWN BY:	JRM
ENGINEER:	MDC
DATE:	JULY 2025
ISSUED FOR:	CONSTRUCTION
PROJECT:	GCC APOPKA, FL
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C-30

This item has been digitally signed and sealed by Marci D Chandler on the date adjacent to the seal. Signature must be verified on any electronic copies.

SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
2	Definitions Temporary Traffic Control Devices Overhead Work Railroads Sight Distance Above Ground Hazard
3	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures Overweight/Oversize Vehicles Lane Widths High-Visibility Safety Apparel Speed Reduction Signing
4	Flagger Control Survey Work Zones Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones Manholes/Crosswalks/Joints Truck Mounted Attenuators Signals
7	Channelizing Devices Channelizing Devices Consistency Advanced Warning Arrow Boards
8	Drop-Offs In Work Zones
9	Business Entrance Temporary Asphalt Separator
10	Channelizing Devices Notes Temporary Barrier Notes
11	Pavement Markings

- GENERAL NOTES:**
- This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
  - Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
  - Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

**TABLE 1  
CHANNELIZING DEVICE SPACING**

Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums	
	Taper	Tangent	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100

**TABLE 2  
TAPER LENGTH "L"**

Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	$L = WS$

Where: W = width of offset in feet  
S = speed in mph

**TABLE 3  
WORK ZONE SIGN SPACING "X"**

Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways	1,500

\* For limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.

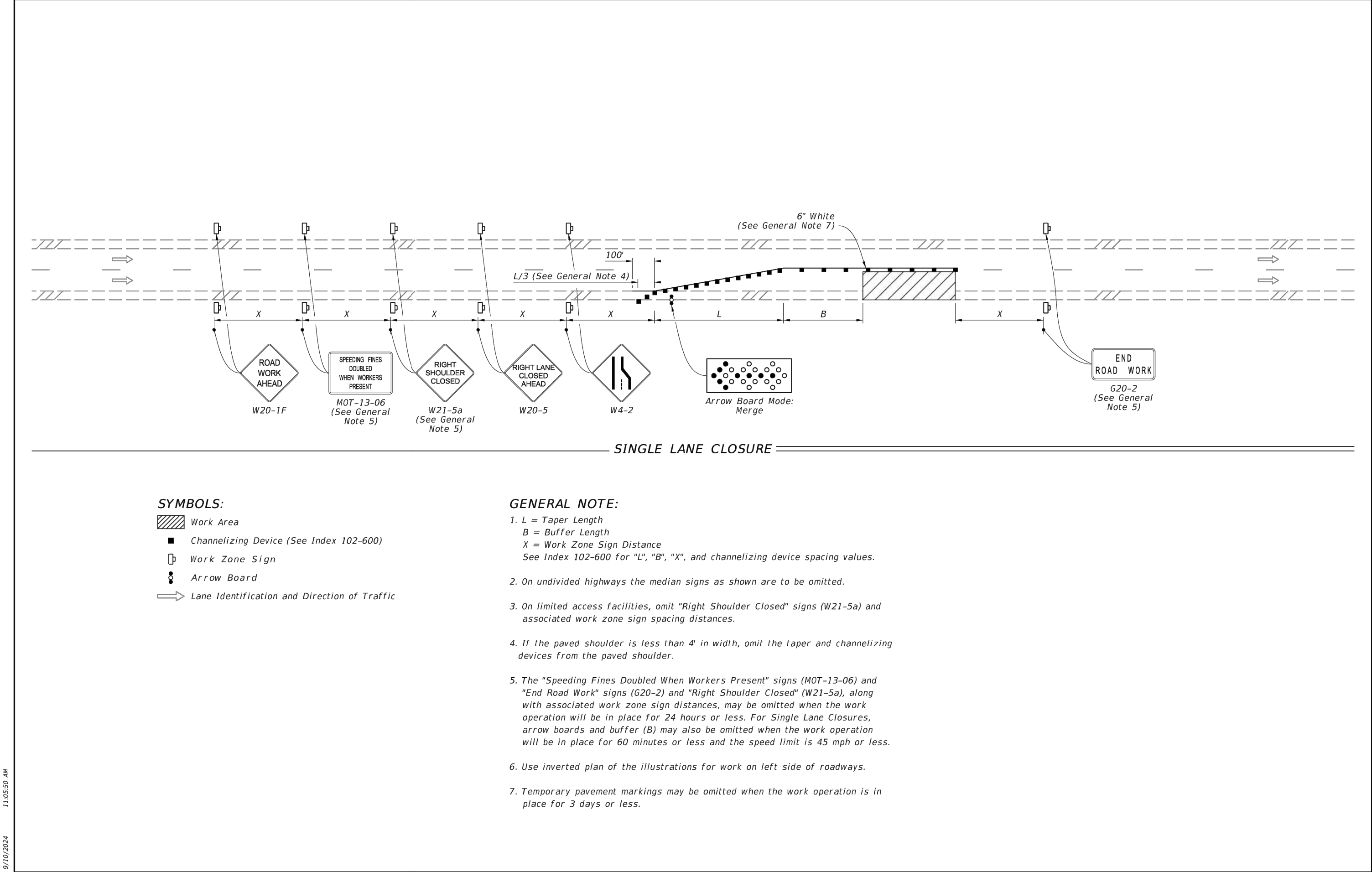
**TABLE 4  
BUFFER LENGTH "B"**

Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	720

Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.

- SYMBOLS:**
- Work Area
  - Channelizing Device
  - Work Zone Sign
  - Type III Barricade
  - Lane Identification and Direction of Traffic

LAST REVISION 11/01/23	DESCRIPTION:	FDOT FY 2025-26 STANDARD PLANS	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX 102-600	SHEET 1 of 11
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LAST REVISION 11/01/21	DESCRIPTION:	FDOT FY 2025-26 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 1 of 5
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PREPARED BY: MARCI D. CHANDLER  
FL PE #63034  
1030 HAAS ROAD  
APOPKA, FL 32712  
407-866-9530

SCALE: N/A  
SHEET SCALE  
BAR IS ONE-HALF INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/GRID REVISIONS:

CLIENT: GCC  
PROJECT: GCC  
APOPKA, FL  
TITLE: MAINTENANCE OF TRAFFIC

DRAWN BY: JRM  
ENGINEER: MDC  
DATE: JULY 2025  
ISSUED FOR: CONSTRUCTION

MAINTENANCE OF TRAFFIC  
C-31

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