

August 20, 2025

PROJECT NAME: FIRESTONE OCALA FREEDOM

PROJECT NUMBER: 2024090064

APPLICATION: MAJOR SITE PLAN #32039

- 1 DEPARTMENT: ENGDRN - STORMWATER REVIEW  
REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI  
STATUS OF REVIEW: INFO  
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.
- 2 DEPARTMENT: ENGDRN - STORMWATER REVIEW  
REVIEW ITEM: Copy of District Permit (County Interest)  
STATUS OF REVIEW: INFO  
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.
- 3 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW  
REVIEW ITEM: 2.12.4.K - List of approved waivers, their conditions, and the date of approval  
STATUS OF REVIEW: INFO  
REMARKS: 10/23/24-add waivers if requested in future
- 4 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW  
REVIEW ITEM: Additional Development Review Comments  
STATUS OF REVIEW: INFO  
REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24"x 36" sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.
- 5 DEPARTMENT: DOH - ENVIRONMENTAL HEALTH  
REVIEW ITEM: Additional Health comments  
STATUS OF REVIEW: INFO  
REMARKS: Central Sewer/Central Water
- 6 DEPARTMENT: LUCURR - LAND USE CURRENT REVIEW  
REVIEW ITEM: 2.12.5/1.8.2.A - Concurrency/Traffic - Study/Capacity Available?  
STATUS OF REVIEW: INFO  
REMARKS:
- 7 DEPARTMENT: LUCURR - LAND USE CURRENT REVIEW  
REVIEW ITEM: Additional Planning Items:  
STATUS OF REVIEW: INFO  
REMARKS: [03/04/2025 - additional comments] What is the status of platting for the site and adjoining properties. Until the status of the parcels is resolved, the plan may not be approved unless suitable waivers are enabled; however, resolution of the issue will need to be achieved prior to obtaining and final inspections for buildings.

[02/17/2025] Waiting for Plat approval. No conditional approval for Major Site Plan permit. This item will remain as NO until the Plat is submitted and approved.

1/10/25 - No response has been provided in regard to this comment.

PRIOR COMMENT: What is the status of platting this "Tract 3" portion of the commercial area? (For instance, a plat was filed for the "Tract 1" portion, although it has not proceeded beyond its first review at this time.)

8 DEPARTMENT: ENGDRN - STORMWATER REVIEW

REVIEW ITEM: 6.13.2.A(3) - Retention/Detention Area Design Parameters

STATUS OF REVIEW: NO

REMARKS: As discussed via email, the pond bottom needs to be stabilized with sod. Staff would support a waiver

9 DEPARTMENT: ENGTRF - TRAFFIC REVIEW

REVIEW ITEM: 6.11.4.B - Cross access

STATUS OF REVIEW: NO

REMARKS: 8/1/25 - Following an extensive review, the required public cross-access has not been provided. Reference documents provided indicate flexible terms of access by participants within the development but not by the public. Recommendation is to utilize the County pre-approved cross-access agreement form, exhibiting the implied cross-access represented by the plans and clearly specifying the extent of the cross-access being provided on sheet C1.1.

4/21/25 - Easement details are being finalized - plan approval subject to recorded easement.

3/21/25 - Cross access is adequately shown as indicated; it is understood that recording easement is a work in progress - unable to approve until easement matching plans is recorded.

2/17/25 - Cross access easement must be recorded or shown on approved plat prior to final plan approval.

12/23/24 - 1) Ensure cross access easement is shown on plans. 2) Need to verify recording of easement as applicant has stated would be done to enable final plan approval.

11/1/24 - A minimum of 24' wide paved public ingress / egress cross-access easement is required parallel to SW 95th Street from property line to property line and must be specified on plans. The heavy-duty pavement area satisfies the pavement requirement. Contact Cheryl Weaver in the Right-of-Way Office at 352-671-8679 to obtain the appropriate template and for recording the easement which must be executed prior to final plan approval.

Feel free to contact us at (352) 671-8686 or [DevelopmentReview@marionfl.org](mailto:DevelopmentReview@marionfl.org) with questions.

Sincerely,

*Your Development Review Team*  
**Office of the County Engineer**



**Marion County  
Board of County Commissioners**

32039

Office of the County Engineer

412 SE 25th Ave.  
Ocala, FL 34471  
Phone: 352-671-8686  
Fax: 352-671-8687

**DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM**

Date: 08.18.2025 Parcel Number(s): 35699-006-06 & 35699-006-04 Permit Number: 2024-10-1200

**A. PROJECT INFORMATION:** Fill in below as applicable:

Project Name: Firestone Freedom Crossing Ocala Commercial  Residential   
Subdivision Name (if applicable): \_\_\_\_\_  
Unit \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_ Tract \_\_\_\_\_

**B. PROPERTY OWNER'S AUTHORIZATION:** The property owner's signature authorizes the applicant to act on the owner's behalf for this waiver request. The signature may be obtained by email, fax, scan, a letter from the property owner, or original signature below.

Name (print): Palmetto Ocala-Freedom Lot 13, LLC  
Signature: \_\_\_\_\_  
Mailing Address: 632 E Main Street, Suite # 301 City: Lakeland  
State: Florida Zip Code: 33801 Phone # 863.808.1320  
Email address: jeff@palmettocg.com

**C. APPLICANT INFORMATION:** The applicant will be the point of contact during this waiver process and will receive all correspondence.

Firm Name (if applicable): Great Southern Constructors Contact Name: Kristin Robb  
Mailing Address: 145 Wilmette Ave City: Ormond Beach  
State: Florida Zip Code: 32174 Phone # 407.672.1258  
Email address: krobb@gscconstructs.com

**D. WAIVER INFORMATION:**

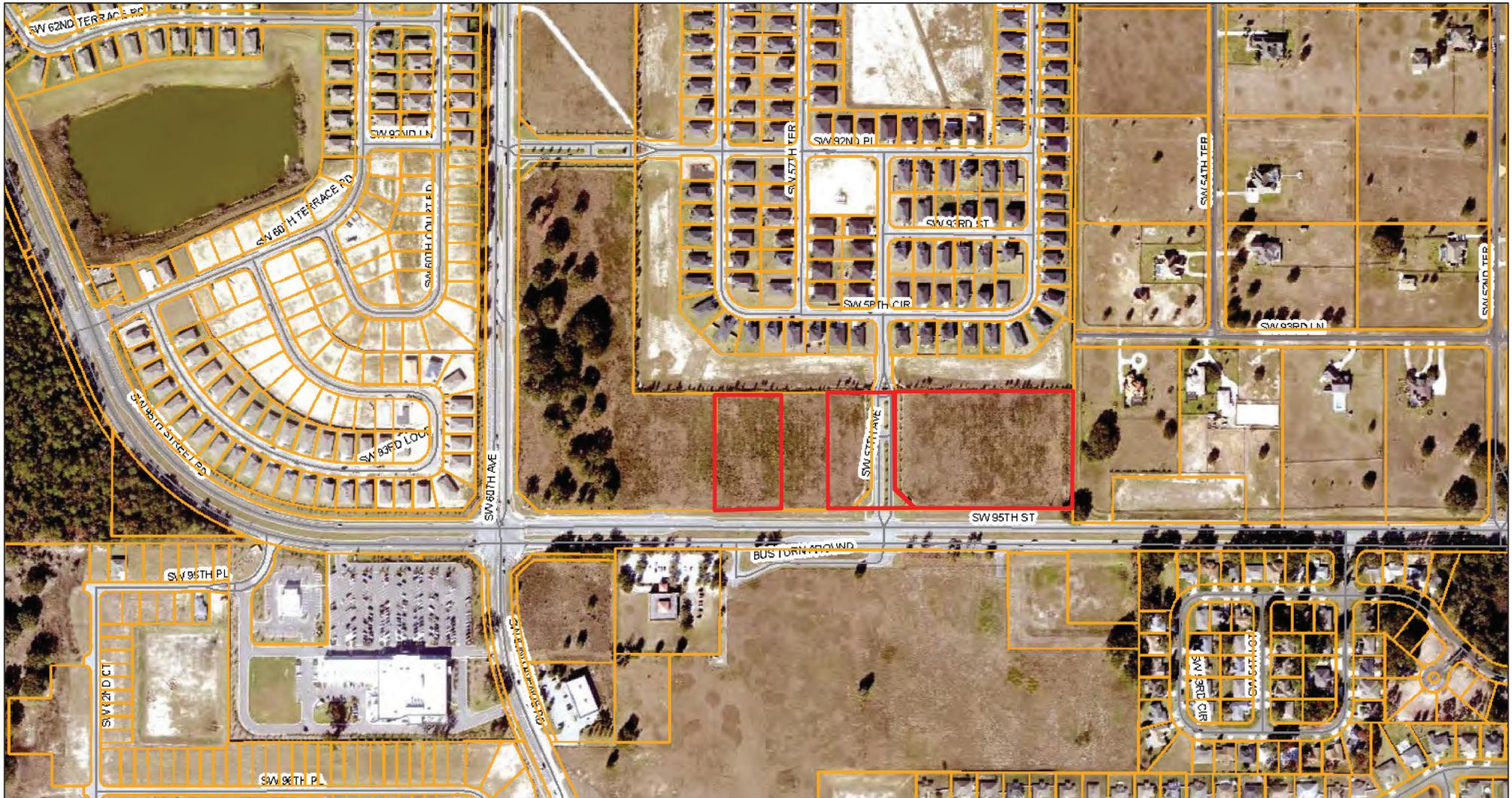
Section & Title of Code (be specific): \_\_\_\_\_ AR # 32039 2.21.4  
Reason/Justification for Request (be specific): Start clearing & grubbing the property and building of earthpad.  
\_\_\_\_\_  
\_\_\_\_\_

**DEVELOPMENT REVIEW USE:**

Received By: email 8/20/25 Date Processed: 8/20/25 Project # 2024090064 AR # 32039

ZONING USE: Parcel of record: Yes  No  Eligible to apply for Family Division: Yes  No   
Zoned: \_\_\_\_\_ ESQZ: \_\_\_\_\_ P.O.M. \_\_\_\_\_ Land Use: \_\_\_\_\_ Plat Vacation Required: Yes  No   
Date Reviewed: \_\_\_\_\_ Verified by (print & initial): \_\_\_\_\_

# MCBCC Interactive Map - Internal

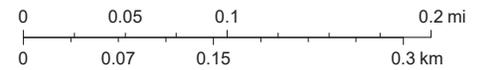


8/21/2025, 2:28:16 PM

- Parcels
- Streets
- Green: Band\_2
- Marion County
- Blue: Band\_3
- Red: Band\_1

Aerial 2024

1:4,514



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Marion County BOCC

## PLAN SHEET INDEX

C0	COVER SHEET	C8	DETAILS (SITE)
C0.1	GENERAL NOTES	C8.1	DETAILS (SITE)
C0.2	GENERAL NOTES	C8.2	DETAILS (FDOT)
C0.3	GENERAL NOTES	C8.3	DETAILS (FDOT)
C1	SITE PLAN OVERALL	C8.4	DETAILS (FDOT)
C1.1	SITE PLAN	C9	DETAILS (GRADING)
C2	DEMO PLAN	C9.1	DETAILS (GRADINGS)
C3	GRADING PLAN	C9.2	KARST
C4	EROSION CONTROL PLAN	C9.3	DETAILS (PROFILES)
C4.1	EROSION CONTROL DETAILS	C10	DETAILS (UTILITY)
C5	UTILITY PLAN	C10.1	DETAILS (UTILITY)
C6	LANDSCAPE PLAN	C10.2	DETAILS (UTILITY)
C7	IRRIGATION PLAN	C10.3	DETAILS (UTILITY PROFILE)
		1 OF 2	SURVEY
		2 OF 2	SURVEY
		1 OF 1	SITE PHOTOMETRIC LAYOUT

TOTAL SHEETS: 29

## LEGEND:

	NO. OF PARKING SPACES
	DETAIL NO. 1 SHEET
	HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE SURFACE
	WATER LINE
	ELECTRIC LINE
	WASTEWATER LINE
	BURIED FORCE MAIN
	TELEPHONE LINE
	FIRE HYDRANT
	VALVE
	WATER METER
	BACKFLOW PREVENTER WITH CONCRETE PAD
	TOP OF ASPHALT/CONCRETE SPOT ELEVATION
	TOP OF CURB/SIDEWALK (ON TOP) / BOTTOM OF CURB (ON BOTTOM)
	FLOW ARROW
	REVISION NUMBER
	FIRE DEPARTMENT CONNECTION

AREAS	EXISTING CONDITION			PROPOSED CONDITION		
	EXISTING (SQ FT)	ACRES	PERCENT OF TOTAL PROPERTY AREA	PROPOSED (SQ FT)	ACRES	PERCENT OF TOTAL PROPERTY AREA
LOT 10 AREAS (FIRESTONE)	253,600	1.146	100%	253,600	1.146	100%
TOTAL IMPERVIOUS (80% MAX)	20	0.01	0%	234,866	0.980	94.82%
TOTAL PERVIOUS AREAS	253,600	1.146	100%	228,734	0.966	45.18%
LOT 11 AREAS	453,373	1.145	100%	453,373	1.145	100%
TOTAL IMPERVIOUS (80% MAX)	20	0.01	0%	25,300	0.114	9.84%
TOTAL PERVIOUS AREAS	453,373	1.145	100%	428,073	1.131	90.06%

# MAJOR SITE PLAN BSRO FIRESTONE

STORE #TBD

AT

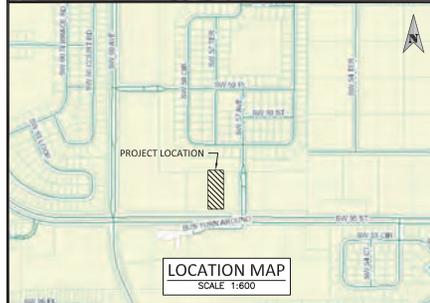
NWC OF SW 95TH ST & SW 57TH AVE  
OCALA, FL 34476  
MARION COUNTY PARCEL #: 35699-006-06 & 35699-006-04



AERIAL MAP  
SCALE 1:200



VICINITY MAP  
SCALE 1:500



LOCATION MAP  
SCALE 1:600

## LEGAL DESCRIPTION

A PORTION OF THE N.W. 1/4 OF SECTION 21, TOWNSHIP 16 SOUTH, RANGE 21 EAST, MARION COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE N.W. CORNER OF SAID SECTION 21; THENCE ALONG THE WEST BOUNDARY OF SAID SECTION 21, S.09°32'01"W, A DISTANCE OF 43.10 FEET; THENCE DEPARTING SAID WEST BOUNDARY, S.89°42'34"E, A DISTANCE OF 55.00 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF S.W. 90TH AVENUE (RIGHT OF WAY WIDTH VARIES); THENCE ALONG SAID EAST RIGHT OF WAY LINE, S.09°32'01"W, A DISTANCE OF 3465.24 FEET; THENCE CONTINUE ALONG SAID EAST RIGHT OF WAY LINE, S.44°35'59"E, A DISTANCE OF 101.02 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE OF S.W. 90TH STREET (RIGHT OF WAY WIDTH VARIES); THENCE DEPARTING THE EAST RIGHT OF WAY LINE OF S.W. 90TH AVENUE, ALONG THE NORTH RIGHT OF WAY LINE OF S.W. 90TH STREET, N.89°42'48"E, A DISTANCE OF 439.31 FEET TO THE POINT OF BEGINNING; THENCE DEPARTING SAID NORTH RIGHT OF WAY LINE, N.00°17'14"W, A DISTANCE OF 400.00 FEET TO A POINT ON THE SOUTH BOUNDARY OF TRACT B OF FREEDOM CROSSINGS PRESERVE PHASE 1 AS RECORDED IN PLAT BOOK 14, PAGE 103 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA; THENCE ALONG SAID SOUTH BOUNDARY, N.89°42'48"E, A DISTANCE OF 159.00 FEET; THENCE DEPARTING SAID SOUTH BOUNDARY, S.09°17'14"E, A DISTANCE OF 400.00 FEET TO A POINT ON THE AFOREMENTIONED NORTH RIGHT OF WAY LINE OF S.W. 90TH STREET; THENCE ALONG SAID NORTH RIGHT OF WAY LINE, S.89°42'48"W, A DISTANCE OF 159.00 FEET TO THE POINT OF BEGINNING; SAID LANDS CONTAINING 1.46 ACRES, MORE OR LESS.

## GENERAL REVISION LOG

NO.	DATE	REVISION / ISSUE:	SHEETS REVISED:	BY:
1	11/01/2024	MARION COUNTY COMMENTS	C0, C1, C1.1, C3, C4, C5, C6, C7, C8, C9, C10.2, C10.3, 1 OF 1 SITE PHOTOMETRIC LAYOUT	JR
2	01/16/2025	MARION COUNTY COMMENTS	C0, C1, C1.1, C3, C5, C6, C7 OF 1 OF 1 SITE PHOTOMETRIC LAYOUT	JR, NT
3	01/08/2025	CLIENT COMMENTS	C1.3, C6	HR
4	02/18/2025	PLAT	C1, C1.3	NT
5	02/18/2025	CLIENT COMMENTS	C1	NT
6	03/04/2025	MARION COUNTY COMMENTS	C1	NT
7	03/17/2025	CLIENT COMMENTS	C1, C1.3, C5, C9	JR, NT
8	04/04/2025	MARION COUNTY COMMENTS	C1	NT
9	04/05/2025	MARION COUNTY COMMENTS	C1	NT

## CONCURRENCY DEFERRAL STATEMENT:

THE PROPOSED PROJECT HAS BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED/RESERVED ANY PUBLIC FACILITY CAPACITIES, FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO THE DEVELOP OF THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF THE CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO BUILDING PERMIT AND FINAL PLAT REVIEW.

## NOTES:

- THIS PARCEL IS IN THE SECONDARY SPRINGS PROTECTION OVERLAY ZONE (SSPOZ).
- NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PCNS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.

## LIST OF WAIVERS

SECTION & TITLE OF CODE	DATE APPROVED
SEC. 8.8.A.A. B - BUILDING LANDSCAPING: 80% OF BUILDING TO BE SCREENED FROM PUBLIC VIEW WITHIN 25 FT OF BUILDING	2/21/2025

## PROJECT DIRECTORY

OWNER / DEVELOPER:	PALMETTO CAPITAL GROUP 1643 WILLIAMSBURG SQUARE LAKELAND, FL 33803 PHONE: (863) 806-1320
CIVIL ENGINEER:	COMMON DAK ENGINEERING, LLC 4500 EDGEWATER DRIVE ORLANDO, FL 32804 PHONE: (407) 951-5515
GEOTECH ENGINEER:	PROFESSIONAL SERVICE INDUSTRIES, INC. 1748 33RD STREET ORLANDO, FL 32839 PHONE: (407) 304-5560 FAX: (407) 304-5561
SURVEYOR:	R.M. BARRINEAU AND ASSOCIATES 1309 SE 25TH LOOP SUITE 103 OCALA, FL 34471 PHONE: (352) 622-9133
ARCHITECT:	SCA DESIGN GROUP, P.C. 1437 SOUTH BOULDER, SUITE 550 TULSA, OKLAHOMA 74119-3609 PHONE: (918) 587-8600

## OWNER'S CERTIFICATION

I HEREBY CERTIFY THAT I MY SUCCESSORS, AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN

OWNER REPRESENTATIVE: \_\_\_\_\_ DATE: \_\_\_\_\_  
PALMETTO CAPITAL GROUP, LLC

## LICENSED DESIGN PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE COMPLETED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE, EXCEPT AS WAIVED

71636  
JEREMY R. ANDERSON, P.E. P.E. LICENSE NO. DATE

## UTILITY PROVIDERS

WATER & SEWER:	MARION COUNTY UTILITIES 11800 SE U.S. HIGHWAY 441 BELLEVUE, FL 34400 CUSTOMER SERVICE PHONE: (352) 307-6000 UTILITIES@MARIONFL.ORG
ELECTRIC:	SUMNER ELECTRIC COOPERATIVE INC 330 SOUTH U.S. HIGHWAY 301 SUMNERVILLE, FL 33585 HILARY BREWER PHONE: (652) 753-3001 X9568
STORM:	MARION COUNTY OFFICE OF THE COUNTY ENGINEER 412 SE 25TH AVENUE OCALA, FL 34471 JAMES HULSEY PHONE: (352) 671-8686 JAMES.HULSEY@MARIONCOUNTYFL.ORG
COMMUNICATIONS:	CENTURYLINK CABLE PROTECTION CENTER PHONE: (877) 366-8464 X3 USDC DISPATCH OFFICE PHONE: (800) 775-9140 ZITO MIDWEST CATV RHONDA WINN PHONE: (402) 204-2103

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated herein.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

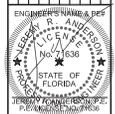
PALMETTO CAPITAL GROUP  
1643 WILLIAMSBURG SQUARE  
LAKELAND, FL 33803  
PHONE: (863) 806-1320



COMMON DAK ENGINEERING  
4500 EDGEWATER DRIVE  
ORLANDO, FL 32804  
(407) 951-5515  
AUTHORITARIAN: 32644

BSRO FIRESTONE  
MAJOR SITE PLAN  
STORE #TBD  
NWC OF SW 95TH ST & SW 57TH AVE  
OCALA, FL 34476  
MARION COUNTY

NO.	DATE	REVISION / ISSUE:	BY:
1	04/04/2025	ISSUED FOR PERMIT	JR



PROJECT # 224.059

DATE 04/04/2025

SCALE N.T.S.

COVER SHEET



18. CONSTRUCTION OF THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE AND ALL DISTURBED AREAS STABILIZED IN ACCORDANCE WITH THE PERMITTED PLANS AND CONDITIONS PRIOR TO ANY OF THE FOLLOWING: ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; INITIATION OF INTENDED USE OF THE INFRASTRUCTURE; OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.

19. THE STORMWATER SEEDING AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED AREAS SHOULD BE FERTILIZED, WATERED AND RESEED AS NEEDED. SEEDING AREAS WILL NOT BE ACCEPTED BY ENGINEER FOR CLEARANCE UNLESS A 1 INCH STAND HAS BEEN ESTABLISHED. IF THE ACCEPTABLE STAND IS NOT MET THEN THE AREA DESIGNATED FOR SEED WILL BE SOOED AT NO ADDITIONAL COST TO THE OWNER.

20. PRIOR TO INSPECTIONS AND TESTING ALL INSTALLATION LINES AND STRUCTURES MUST BE CLEANED.

**TESTING AND INSPECTION REQUIREMENTS (DRAINAGE)**

1. THE STORM DRAINAGE PIPING AND STORM WATER PUMP SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNERS ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTORS REFER TO THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.

2. THE ENGINEER RESERVES THE RIGHT TO HAVE ALL DWP STORM WATER FEATURES TESTED BY AN APPROVED SOils ENGINEER TO ENSURE INFILTRATION RATES ARE WITHIN DESIGN PARAMETERS TO FIT AS-BUILT REQUIREMENT HEREIN.

3. DENSITIES AT UTILITY AND STORM STRUCTURES (METALS/MANHOLES WITHIN ROADWAY TO 3 IN BACK OF CURB) SHALL BE 98% WITH PAVEMENT AREAS, AND A DENSITY OF 95% FOR STRUCTURES OUTSIDE PAVED AREAS (PER AASHTO 100) (HOODS) IS REQUIRED.

4. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE RESPECTED BY THE OWNERS ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY. PURPOSES THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

5. AS REQUIRED BY THE OWNER, ALL STORM PIPE SHALL BE SUBJECTED TO LEAKAGE TESTING. WHEN THE GROUNDWATER LEVEL IS ABOVE THE TOP OF THE PIPE, AN INFILTRATION TEST SHALL BE PERFORMED BY SEALING OFF A LENGTH OF PIPE AND MEASURING THE DEPTH OF FLOW OVER A MEASURING WUR, OR BY PUMPING THE INFILTRATED WATER INTO CONTAINERS FOR MEASUREMENT. TESTS SHALL BE CONDUCTED FOR A MINIMUM OF FOUR HOURS. INFILTRATION LEAKAGE SHALL NOT EXCEED 150 GALLONS PER 24 HOURS. PER INCH DIAMETER, PER MILE OF PIPE. WHEN THE GROUNDWATER LEVEL IS BELOW THE TOP OF THE PIPE, THE PIPE SHALL BE TESTED FOR LEAKAGE BY EVAPORATION. EVAPORATION LEAKAGE TEST SHALL CONSIST OF ISOLATING THE PARTICULAR SECTION, FILLING IT WITH WATER TO A POINT 4 FEET ABOVE THE TOP OF THE PIPE AT THE UPPER MANHOLE OR INLET, AND ALLOWING IT TO STAND FOR NO LESS THAN FOUR HOURS. THE SECTION SHALL THEN BE REFILLED WITH WATER UP TO THE ORIGINAL LEVEL, AND AFTER TWO HOURS THE DROP IN WATER SURFACE SHALL BE MEASURED. THE COMPUTED LEAKAGE SHALL NOT EXCEED 150 GALLONS PER INCH DIAMETER PER 24 HOURS, PER MILE OF PIPE.

**GAS/ELECTRIC TELEPHONE, CABLE TV AND UTILITIES**

ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF GAS, ELECTRIC, TELEPHONE, FIBER OR CABLE TV UTILITIES, AND ANY INFORMATION PERTAINING TO THE DESIGN OR LOCATION OF THOSE UTILITIES IS SHOWN ON THE CIVIL DRAWINGS FOR GENERAL REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR ACTUAL LOCATIONS OF THESE UTILITIES AND FOR SPECIFIC REQUIREMENTS.

6. MATERIALS INTERFERING WITH CONSTRUCTION AND ABANDONED UTILITY LINES, PIPES, STRUCTURES, AND OTHER SUBSTRANENT OBJECTS SHALL BE REMOVED. ALL MATERIALS NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL MANNER.

7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND COORDINATING WITH THE APPROPRIATE UTILITY AUTHORITIES BEFORE CONSTRUCTION COMMENCES. CONTRACTOR MUST CALL/SUBMIT ONE CALL OR PRIVATE LOCATOR FOR UTILITY LOCATES 48 HOURS PRIOR TO CONSTRUCTION AT A MINIMUM. ANY UTILITY NOT LOCATED SHALL BE REPORTED TO THE ENGINEER AND RE-LOCATED PRIOR TO CONSTRUCTION.

8. INSTALL ALL REQUIRED CONDUIT TO THE PROPERTY PER LINE FOR APPLICABLE UTILITY SERVICE. COORDINATE WITH UTILITY PROVIDER, ELECTRICAL ENGINEER AND ARCHITECTURAL PLANS ON FINAL SIZE AND LOCATION OF CONDUIT.

**WATER SYSTEM NOTES**

GOVERNING JURISDICTIONAL PUBLIC WORKS AND UTILITY STANDARDS ARE MINIMUM STANDARDS FOR PUBLIC POTABLE WATER. RECLAIMED WATER AND/OR SANITARY SEWER CONSTRUCTION. IF THERE IS A CONFLICT BETWEEN THOSE REQUIREMENTS AND THOSE LISTED BELOW THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS AT CROSSINGS OF WATER MAINS SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHENEVER POSSIBLE, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER MAINS SHALL BE CONSTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 18 FEET BETWEEN ANY TWO JOINTS. WHENEVER SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP). AT THE CROSSING, DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED. SUFFICIENT LENGTH OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO (2) JOINTS IN LIEU OF DIP. THE SANITARY SEWER MUST BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIVALENT TO CROSSING. I.E. PIPES CENTERED ON THE CROSSING. WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVE.

**WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR PUBLIC ACCESS IRRIGATION:**  
 MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND OTHER POTABLE WATER LINES. RECLAIMED WATER MAINS SHALL BE MAINTAINED AT CROSSINGS.

**WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION:**  
 THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER, AND A 10 FT. HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER MAINS. NO MINIMUM SEPARATION IS REQUIRED BETWEEN THE RECLAIMED WATER MAIN AND SANITARY SEWERS, OTHER THAN NECESSARY TO ENSURE STRUCTURAL INTEGRITY AND PROTECTION OF THE LINES THEMSELVES.

2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLEL INSTALLATIONS, WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE, IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELVE. LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE. WATER AND SEWER JOINTS SHALL BE STAGGERED. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES, IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (4- STAGGERED JOINTS).

3. ALL DIP PIPE SHALL BE MW CLASS 250 OR PRESSURE CLASS 250. REFER TO NOTE 89 BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED.

4. ALL UTILITIES SHALL BE INSTALLED WITH COMPLIANCE TO GOVERNING JURISDICTION WATER DISTRICT STANDARD CONSTRUCTION DETAILS AND LAND DEVELOPMENT CODE.

5. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 38 INCHES OF COVER WHERE POSSIBLE. 48" MAXIMUM COVER UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.

6. ALL WATER SERVICE LINES, VALVES AND METERS SHALL BE INSTALLED TO COMPLY WITH APPLICABLE MUNICIPALITY/DEPARTMENT STANDARD AND SPECIFICATIONS.

7. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON POTABLE PIPING IN CONTACT WITH POTABLE WATER LINES. TESTED SECTIONS OF BURIED PIPING WITH SLP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA LISTED HEREIN THE WATER TESTING SECTION.

8. THRUST BLOODS SHALL BE PROVIDED FOR ALL FITTINGS AND HYDRANTS, IN ACCORDANCE WITH APPLICABLE UTILITY DEPT. SPECIFICATIONS.

9. ALL DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C151/21-01. PIPE SHALL BE FINISHED IN N 8 OR 20 FOOT SECTIONS. PIPE THICKNESS SHALL BE CLASS 50, UNLESS OTHERWISE SPECIFIED.

10. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.

11. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH DEEP SUBPARAGRAPH 6250.320(27) (b) 3. F.A.C. USING BLUE AS A PRIMAVIDE COLOR.

12. ALL WATER AND REUSE MAINS SHALL BE ALLOWED TO DEFLECT PER MANUFACTURERS SPECIFICATIONS.

13. ALL ON-SITE FIRE HYDRANTS SHALL BE PAINTED WITH HIGH GLOSS ENAMEL FEDERAL COLOR SHALL COMPLY WITH APPLICABLE UTILITY AGENCY JURISDICTION, AND BE OSHA APPROVED, AND MUST BE LOCATED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB. OTHERWISE BOLLARDS WILL BE REQUIRED FOR PROTECTION. FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS 608B AND THEREOF. CONTRACTOR SHALL PROVIDE PUBLIC USE TOWER BLOOMPS (AT THE ENDS) OF PROPOSED WATER MAINS AND SERVICE LATERALS (TO BUILDINGS) TO ASSURE ADEQUATE FLUSHING AND DISINFECTION/CHLORINATION.

14. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M32, CONCERNING HYDROSTATIC TESTING OF PVC PIPING, OFF-SITE UTILITIES HYDROSTATIC TESTING TO BE WITNESSED BY A GOVERNING JURISDICTION WATER DISTRICT DEPARTMENT INSPECTOR.

15. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION 6081 AND GOVERNING JURISDICTIONAL WATER DISTRICT UTILITIES OPERATION MANUAL.

16. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (DR 18) STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE SCH40 B, PRESSURE CLASS 200 PSI.

17. ALL PVC WATER MAINS LESS THAN 4" DIAMETER SHALL BE ACCORDANCE WITH AWWA C900 (DR 18) STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. THREADED PIPE AND FITTINGS SHALL BE SCHEDULE 40 AND CONFORM TO ASTM A286 UNTHREADED PIPE AND FITTINGS SHALL BE SCHEDULE 40 WITH SOLVENT-CEMENTED JOINTS. CEMENTED JOINTS AND FITTINGS SHALL COMPLY WITH ASTM D2468 AND D285.

18. ALL PVC WATER MAINS SHALL BE 2001 (200 PSI) UNLESS OTHERWISE NOTED.

19. POLYETHYLENE PIPE AND TUBING USED FOR SERVICE LINES 1/2" - 2" SHALL BE POLYETHYLENE IN ACCORDANCE WITH AWWA C901, STANDARD CODE DESIGNATION PE 4710, SDR 11 (OUTSIDE DIAMETER BASED DIMENSION RATIO), 250 PSI. PIPE SHALL BE COLOR CODED BLUE (POTABLE WATER) OR PURPLE (RECLAIMED WATER). PIPE TO BE APPROVED FOR USE SHALL BE APPROVED FOR THE USE AS APPLIED. JOINTS SHALL BE SDR 11. PIPE SHALL BE BUTT JOINT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SDR OR LESS. PROVIDE APPROVALS AS REQUIRED TO JOIN PIPE TOPPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.

20. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE BURIED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 1/2" MIN THICK, 2" INCH MINIMUM WIDTH, AND MADE OF AN ALUMINUM MATERIAL, SANDWICHED BETWEEN LAYERS OF POLYETHYLENE. LINE ON EACH SHALL BE PRINTED, IN PERMANENT BLACK INK WITH ONE INCH TALL LETTERS, "CAUTION, WATER LINE BURIED BELOW," ON BLUE BACKGROUND. THE TAPE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION. THOSE OF THE WATER MAIN THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.

21. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH COLOR CODING REQUIREMENTS OF CHAPTER 625.563.02, F.A.C.

22. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, AND HYDRANTS. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH DEPARTMENT. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING METHODS AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

**TESTING AND INSPECTION REQUIREMENTS (WATER)**

1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES, SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNERS ENGINEER, OR CITY INSPECTOR. PRESSURE TESTING OF WATER MAINS SHALL BE FOR A PERIOD OF FOUR (4) HOURS. CONTRACTOR TO NOTIFY THE OWNERS ENGINEER AND APPLICABLE AGENCY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.

2. TESTED SECTIONS OF BURIED PIPING WITH SLP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA:  $L = 670 \sqrt{P \times D}$

WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED, S = LENGTH OF LINE TESTED (IN FEET), D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE, AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN POUNDS PER SQUARE INCH (PSI) (GROSS JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

3. CONTRACTOR SHALL ARRANGE FOR CHLORINATION AND BACTERIOLOGICAL SAMPLING, AND OBTAIN CLEARANCE OF DOMESTIC AND FIRE LINE WATER SYSTEMS. COPIES OF ALL BACTERIOLOGICAL TEST RESULTS ARE TO BE SUBMITTED TO THE OWNERS ENGINEER, IMMEDIATELY UPON COMPLETION OF THE WATER SYSTEM FOR CERTIFICATION PURPOSES.

4. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS:  
 A. CONDUCT PRESSURE AND LEAKAGE TESTING.  
 B. PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C601.  
 C. DISINFECT THE WATER MAIN INCLUDING VALVES AND FITTINGS.

5. ALL FIRE PROTECTION SHALL MEET THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY AND N.F.P.A. 24 WHICH REGULATES THE CONSTRUCTION AND TESTING OF SUCH LINES.

6. CONSTRUCT BACTERIOLOGICAL SAMPLING (TWO (2)) CONSECUTIVE DAYS OF PASSING RESULTS ARE REQUIRED)

7. IF THE ABOVE TESTING REQUIREMENTS ARE IN CONFLICT WITH ANY LOCAL, STATE, OR FEDERAL AGENCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

**GENERAL FIRE PROTECTION NOTES**

1. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALLS OFFICE. CONTRACTOR TO REGULATE REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.

2. ALL FIRE PROTECTION SHALL MEET THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY AND N.F.P.A. 24 WHICH REGULATES THE CONSTRUCTION AND TESTING OF SUCH LINES.

3. COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.

4. ALL FIRE LINE PIPING FROM POINT OF SERVICE AS DEFINED BY FS 633.02(24) SHALL BE 3/8" OR 1/2" AND HAVE A MINIMUM OF 38 INCHES OF COVER. THE FIRE LINE SHALL BE PRESSURE TESTED TO 200 PSI FOR A MINIMUM OF TWO HOURS, TESTED IN ACCORDANCE WITH NFPA 24 & NFPA 25.

5. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING TO ONE FOOT ABOVE FINISHED GRADE SHALL HOLD A CLASS 1, II, OR LEVEL V CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.02(24).

6. FIRE PROTECTION SYSTEM MAINS ON PRIVATE PROPERTY SHALL MEET THE REQUIREMENTS AND SHALL BE INSTALLED PER N.F.P.A. 24. ALL FIRE PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION.

7. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FINISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURERS CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED.

8. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND. LINE HYDRANTS SHALL CONTAIN TWO-TWO AND A HALF INCH (4-1/2) WRENCH CONNECTIONS AND ONE FOUR AND A HALF INCH (4-1/2) STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE QUARTER INCH (5-1/4) WEDGE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2) PENNACON OPERATING NUT, THE HYDRANTS SHALL OPEN COUNTERCLOCKWISE.

9. HYDRANTS SHALL BE PAINTED PER PART 6 OF A 201 IN ANOTHER APPROVED MANNER WITH THE FINISH PAINT BEING TWO COATS OF ENAMEL OR SPECIAL COATING TO COLOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.

10. BLUE PAVEMENT REFLECTORS SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS. THESE SHALL BE NOTED, SHIRTS, OR LANDSCAPING PLANTED AROUND THE HYDRANTS.

11. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRINK (WRENCH HOLES) IS AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER, SIX FEET FROM ANY AIR OR PROPANE VENT, SANITARY SEWER, AND WASTEWATER TREATMENT PLANT, AND TEN FEET FROM ANY ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT PLANTS.

12. THE ACCESS ROADS SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED.

**TESTING AND INSPECTION REQUIREMENTS**

**PIPE PROTECTION**

1. THE CONTRACTOR SHALL PROVIDE A POST CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 20 PSI.

2. APPLY HYDROSTATIC TEST PRESSURE OF 200 PSI (FIRE MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURERS SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.

3. APPLY LEAKAGE TEST PRESSURE OF 200 PSI (FIRE MAINS) MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL, TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LEAKAGE RATE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

**TRAFFIC CONTROL**

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING, THE M.O.T. PLAN AND INSTALLED TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. IN GENERAL, ROADWAY AND DRIVEWAY LINE CLOSURES ARE PROHIBITED DURING CONSTRUCTION UNLESS SPECIFICALLY DETAILED ON THESE PLANS. IN THE EVENT IT IS DETERMINED THAT ROADWAY AND DRIVEWAY LINE CLOSURES WILL BE REQUIRED, THE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T.

2. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL APPROPRIATE AGENCIES (PARTIAL LISTED BELOW) PRIOR TO ANY LINE CLOSURES ON AN ARTERIAL OR COLLECTOR ROADWAY.

- A. GOVERNING PUBLIC WORKS
- B. SHERIFF'S OFFICE
- C. TRANSIT AUTHORITY
- D. SCHOOL TRANSPORTATION
- E. EMS & FIRE ADMINISTRATION

3. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT FOOT SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL. CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL APPROPRIATE AGENCIES (PARTIAL LISTED BELOW) PRIOR TO CONSTRUCTION OF ANY MAJOR LINE CLOSURE.

4. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE FUNCTION OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.

5. CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.

6. THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY.

7. WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE USED TO CONTROL TRAFFIC AND TO PROTECT THE WORK AREA FROM THE MOVEMENT OF WATER AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF TRAFFIC AND TO PROTECT TRAFFIC ONTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.

8. TYPE I OR TYPE II BARRICADES AT 20 FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDOUS EXIST AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FLAGMAN AND OTHER TRAFFIC MEASURES NECESSARY TO PROTECT AND FACILITATE TRAFFIC MOVEMENT DURING CONSTRUCTION.

9. COMPLY WITH ALL LOAD RESTRICTIONS IN THE MAINTENANCE OF MATERIALS ON PUBLIC ROADS BEYOND THE LIMITS OF THE WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR THE DAMAGE AND DELAY TO TRAFFIC. THE CONTRACTOR SHALL CONTROL HIS OPERATIONS AND THOSE OF HIS SUBCONTRACTORS, AND ALL SUPPLIERS TO ASSURE THE LEAST CONVICTION TO THE TRAVELING PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF TRAFFIC AND TO PROTECT TRAFFIC ONTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE AND THE CONVENIENCE OF THE TRAVELING PUBLIC UNDER ALL CIRCUMSTANCES. SAFETY SHALL BE THE MOST IMPORTANT CONSIDERATION.

**SANITARY SYSTEM NOTES**

GOVERNING JURISDICTIONAL PUBLIC WORKS AND UTILITY STANDARDS ARE MINIMUM STANDARDS FOR PUBLIC POTABLE WATER. RECLAIMED WATER AND/OR SANITARY SEWER CONSTRUCTION. THE NOTES BELOW APPLY ONLY WHEN THEY EXCEED THE GOVERNING JURISDICTION PUBLIC WORK STANDARDS.

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHALL ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE SEWER PIPE AND THE CROWN OF THE WATER MAIN. WHENEVER POSSIBLE, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIVALENT FROM THE POINT OF CROSSING WITH NO LESS THAN 18 FEET BETWEEN ANY TWO JOINTS. WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP). AT THE CROSSING, DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED. SUFFICIENT LENGTH OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO (2) JOINTS. IN LIEU OF DIP, THE SANITARY SEWER MUST BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS, CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIVALENT TO CROSSING. I.E. PIPES CENTERED ON THE CROSSING. WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVE.

**WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR PUBLIC ACCESS IRRIGATION:**  
 MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND OTHER POTABLE WATER MAINS OR SERVICE CONNECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.

**WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION:**  
 THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER, AND A 10 FT. HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER MAINS. NO MINIMUM SEPARATION IS REQUIRED BETWEEN THE RECLAIMED WATER MAIN AND SANITARY SEWERS, OTHER THAN NECESSARY TO ENSURE STRUCTURAL INTEGRITY AND PROTECTION OF THE LINES THEMSELVES.

2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLEL INSTALLATIONS, WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE, IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELVE. LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE. WATER AND SEWER JOINTS SHALL BE STAGGERED. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES, IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (I.E. STAGGERED JOINTS).

3. ALL DIP PIPE SHALL BE CLASS 80 (HIGHER REFER TO NOTE #S 8 & 9) BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED.

4. ALL PVC PIPE SHALL BE SDR 26 PVC OR SCHEDULE 40, PIPE. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED FOR PVC PIPE, AND SHALL COMPLY WITH ASTM F417, ASTM D321 & ASTM F1336. JOINTS SHALL COMPLY WITH ASTM D321.

5. ALL PVC FORCE MAINS (IF REQUIRED) SHALL BE CLASS 200 OR 14 FOR 4" DIAMETER, AND CLASS 150 OR 14 FOR 6" TO 12" DIAMETER PIPE. IN ACCORDANCE WITH AWWA C900 STANDARDS, FORCE MAIN PIPE SMALLER THAN 4" DIAMETER SHALL BE CLASS 200, SDR 21, IN ACCORDANCE WITH ASTM D 2241. FORCE MAINS SHALL BE SPIRAL WRAPPED WITH 2" FORCE MAIN W/ 2" HIGH DENS GREEN STICK OR VINYL TAPE. FORCE MAINS WITH THE RIGHT-OF-WAY SHALL BE CLASS 52 DIP, MINIMUM 3" DIAMETER.

6. ALL SANITARY MANHOLES SHALL BE LOCATED NO MORE THAN 400 FEET APART AND SHALL CONFORM TO THE DETAILS CONTAINED HEREIN, AS WELL AS WITH ASTM 7.

7. ALL DUCTILE IRON PIPE SHALL MEET REQUIREMENTS OF AWWA C900 (ANSI SP-21) AND AWWA C901.

8. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED WITH A VIRGIN POLYETHYLENE INTERIOR LINING COMPLYING WITH ASTM D 1248 (40 MILS THICK) HEAT TREATED TO THE INTERIOR OF ALL PIPES. ALL DIP PIPE SHALL HAVE A STANDARD OUTSIDE COATING COMPLYING WITH ASTM C516.1.

9. ALL SLOPES FOR SANITARY SEWERS AND SERVICE CONNECTIONS SHALL COMPLY WITH STATE AND LOCAL UTILITY CRITERIA. CONTRACTOR TO NOTIFY ENGINEER IF THE SLOPES DEVIATES FROM THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS.

10. ALL UTILITIES SHALL BE INSTALLED WITH COMPLIANCE TO GOVERNING JURISDICTION STANDARDS CONSTRUCTION DETAILS AND LAND DEVELOPMENT CODE.

11. PRIOR TO COMMENCING WORK WHICH REQUIRES EXPOSING CONCRETE FACILITIES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATIONS OF EXISTING CONNECTION POINTS) AND NOTIFY THE OWNERS ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

12. SANITARY SEWER MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPES) BURIED AT LEAST 18 INCHES ABOVE THE MAIN LINES.

13. FORCE MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPES) BURIED AT LEAST 18 INCHES ABOVE THE FORCE MAIN.

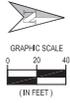
**TESTING AND INSPECTION REQUIREMENTS (SANITARY)**

1. ALL SANITARY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNERS ENGINEER AND APPLICABLE MUNICIPALITY/AGENCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS ASSOCIATED WITH A TELEVIEWED INSPECTION (TV) OF THE PROPOSED GRADY SEWER LINE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE TV INSPECTION TAPE TO THE ENGINEER, THE OWNER, AND THE APPLICABLE MUNICIPALITY/AGENCY.

2. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRADY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SMO TESTS ARE TO BE CERTIFIED BY THE ENGINEER OR RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

LEAKAGE TEST ARE SPECIFIED REQUIRING THAT:  
 A. THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 150 GALL





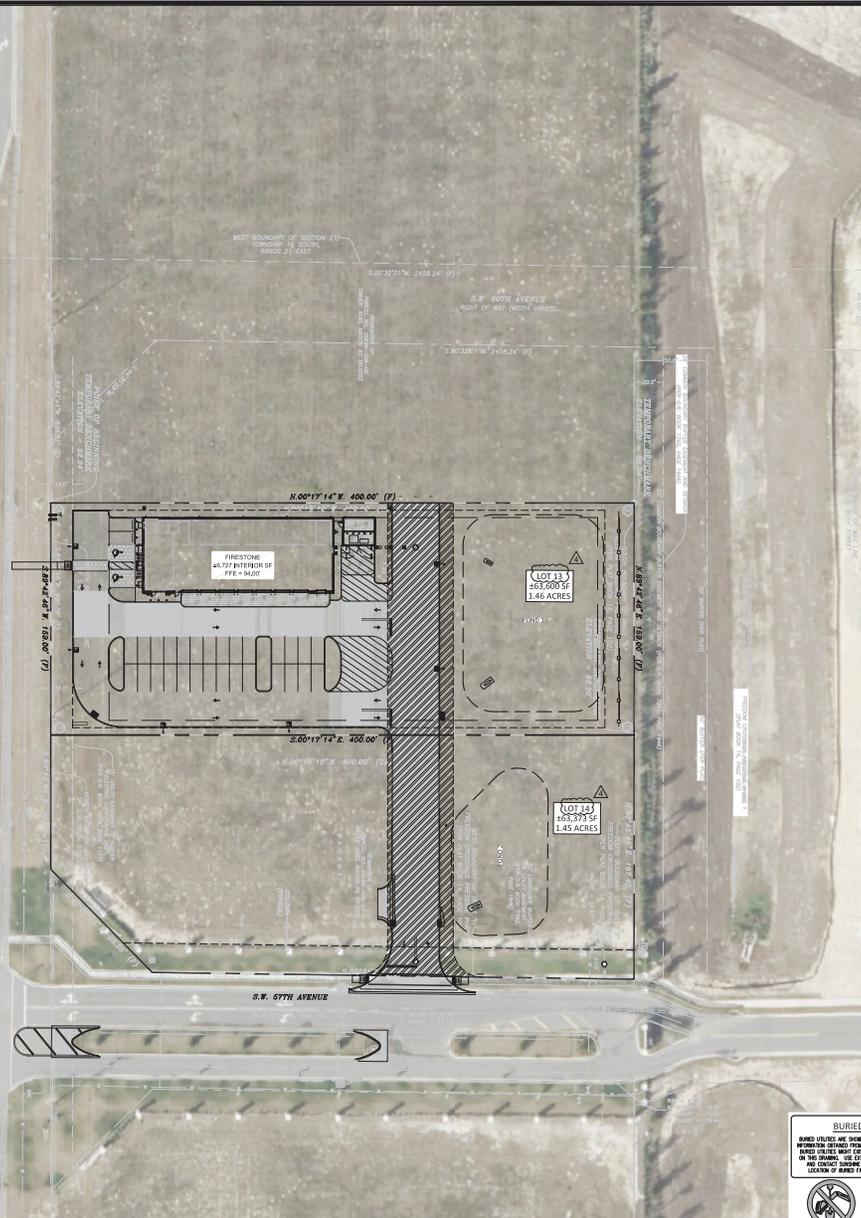
1 inch = 40 ft.  
 ELEVATIONS BASED ON  
 NAVD 88 VERTICAL DATUM  
 CONVERSION:  
 NGVD23 - NAVD88 = 1.001'

**LEGEND**

- CONCRETE
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED INGRESS/EGRESS/UTILITY EASEMENT

**NOTES:**

1. ALL ASPHALT DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE.
2. ALL RADII ARE 3' UNLESS OTHERWISE SPECIFIED.
3. BUILDING SETBACKS ARE TO CONCRETE CORNER OF BUILDING.
4. ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
5. CONTRACTOR SHALL FIELD VERIFY UTILITY POINT OF CONNECTIONS LOCATION, ELEVATION AND TYPE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING FACILITIES.
6. ALL DISTURBED AREAS TO BE SODED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.
7. ALL IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO SOUTHEAST (FRONT) PROPERTY LINE (BEARING N00°17'14"W) UNLESS OTHERWISE SHOWN.
8. ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FOOT DESIGN STANDARDS (INDEXES), THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FOOT UTILITY ACCOMMODATION MANUAL.
9. THE PAGES TITLED "GENERAL NOTES" AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL NOTES" SHEETS TO ALL BIDDERS AND SUBCONTRACTORS, THE SIGHT DISTANCE AT DRIVEWAYS COMPLIES WITH FDOT REQUIREMENTS.
10. MCJ PERSONNEL ARE TO INSPECT ANY WORK PERFORMED ON OR AROUND EXISTING MCJ INFRASTRUCTURE. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. IF THE PRE-CONSTRUCTION MEETING IS NOT COMPLETED, ANY WORK MAY BE HALTED. TO SCHEDULE, CONTACT MCJ'S CONSTRUCTION OFFICER AT 352-307-6163.



**SITE DATA TABLE**

**PROJECT DESCRIPTION**  
 THIS PROJECT CONSISTS OF AN AUTOMOTIVE RETAIL & SERVICE CENTER WITH ON-SITE PARKING AND ON-SITE STORMWATER POND.

**LOCATION & LAND USE**  
 TAX PARCEL ID: PORTION OF 35999-000-000-00000000-0000  
 ZONING DISTRICT: COM  
 FUTURE LAND USE: COM  
 ADJACENT ZONING / FILL:  
 WEST (SIDE): B-2 / COM  
 NORTH (REAR): PLD / COM  
 EAST (SIDE): B-2 / COM  
 SOUTH (FRONT): COM

**DEVELOPMENT ADDED/REMOVED OR BOOK 1300, PAGES 347-354**

AREAS	PROPOSED (GFI)	ACRES	PERCENT OF TOTAL PROPERTY AREA
LOT 13	453,600	1.46	100%
TOTAL IMPERVIOUS (80% MAX)	434,868	±0.80	54.82%
BUILDING FOOTPRINT	207,760	±0.75	10.91%
PAVEMENT, LOADING & SIDEWALKS	227,116	±0.85	44.21%
TOTAL PERVIOUS AREA	228,734	±0.88	45.18%
FLOOR AREA RATIO (2.25 MAX)	±0.106	OPEN SPACE (25% MIN):	45.18%

AREAS	PROPOSED (GFI)	ACRES	PERCENT OF TOTAL PROPERTY AREA
LOT 14	453,373	1.45	100%
TOTAL IMPERVIOUS (80% MAX)	±5,841	±0.13	9.22%
PAVEMENT, LOADING & SIDEWALKS	±5,841	±0.13	9.22%
TOTAL PERVIOUS AREA	457,532	1.32	90.78%

**SETBACKS & BUFFERS**

BUILDING SETBACKS:	REQUIRED / PLANTING	PROPOSED:
WEST (SIDE):	10' (MIN)	98.1' (MIN FROM PROPERTY LINE)
NORTH (REAR):	25' (MIN)	206.0' (MIN FROM PROPERTY LINE)
EAST (SIDE):	10' (MIN)	10.3' (MIN FROM PROPERTY LINE)
SOUTH (FRONT):	40' (MIN)	63.3' (MIN FROM PROPERTY LINE)

**LANDSCAPE BUFFERS:**

WEST (FRONT):	5' (MIN)	5' (FROM PROPERTY LINE)
NORTH (SIDE):	20' (MIN)	20' (FROM PROPERTY LINE)
EAST (REAR):	5' (MIN)	5' (FROM PROPERTY LINE)
SOUTH (SIDE):	10' (MIN)	10' (FROM PROPERTY LINE)

**PARKING**  
 PARKING REQUIRED: TWO (2) SPACE PLUS FOUR (4) SPACES PER SERVICE BAY, ONE (1) SPACE PER TWO HUNDRED (200) SQUARE FEET OF GROSS LEASABLE AREA, ONE (1) HANDICAP PARKING STALLS REQUIRED FOR UP TO TWENTY-TWO (22) PARKING SPACES.  
 PARKING CALCULATIONS: 5,270 / 230 ± 26.4 27 REQUIRED STALLS  
 PROPOSED PARKING STALLS: 30  
 PROPOSED ADA STALLS: 2  
 TOTAL: 32 SPACES

**FEMA**  
 FLOOD ZONE: X FLOOD MAP # 2208C0204E EFFECTIVE APRIL 19, 2017

**BURIED UTILITIES NOTE**  
 BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNERS. THESE UTILITIES ARE NOT SHOWN IN THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT THE UTILITY OWNERS AT THE NUMBERS LISTED BELOW FOR MORE INFORMATION.  
 CALL BEFORE YOU DIG...  
 1-800-4-A-DIG  
 1-800-454-4776  
 IT'S THE LAW

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636  
 This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated herein.  
 Printed copies of this document are not digitally signed and sealed and the signature must be verified on any electronic copies.

**PALMETTO CAPITAL GROUP**  
 1643 WILLIAMSBURG SQUARE  
 LAKELAND, FL 33803  
 PHONE: (863) 806-1320

**COMMON BARK**

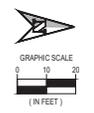
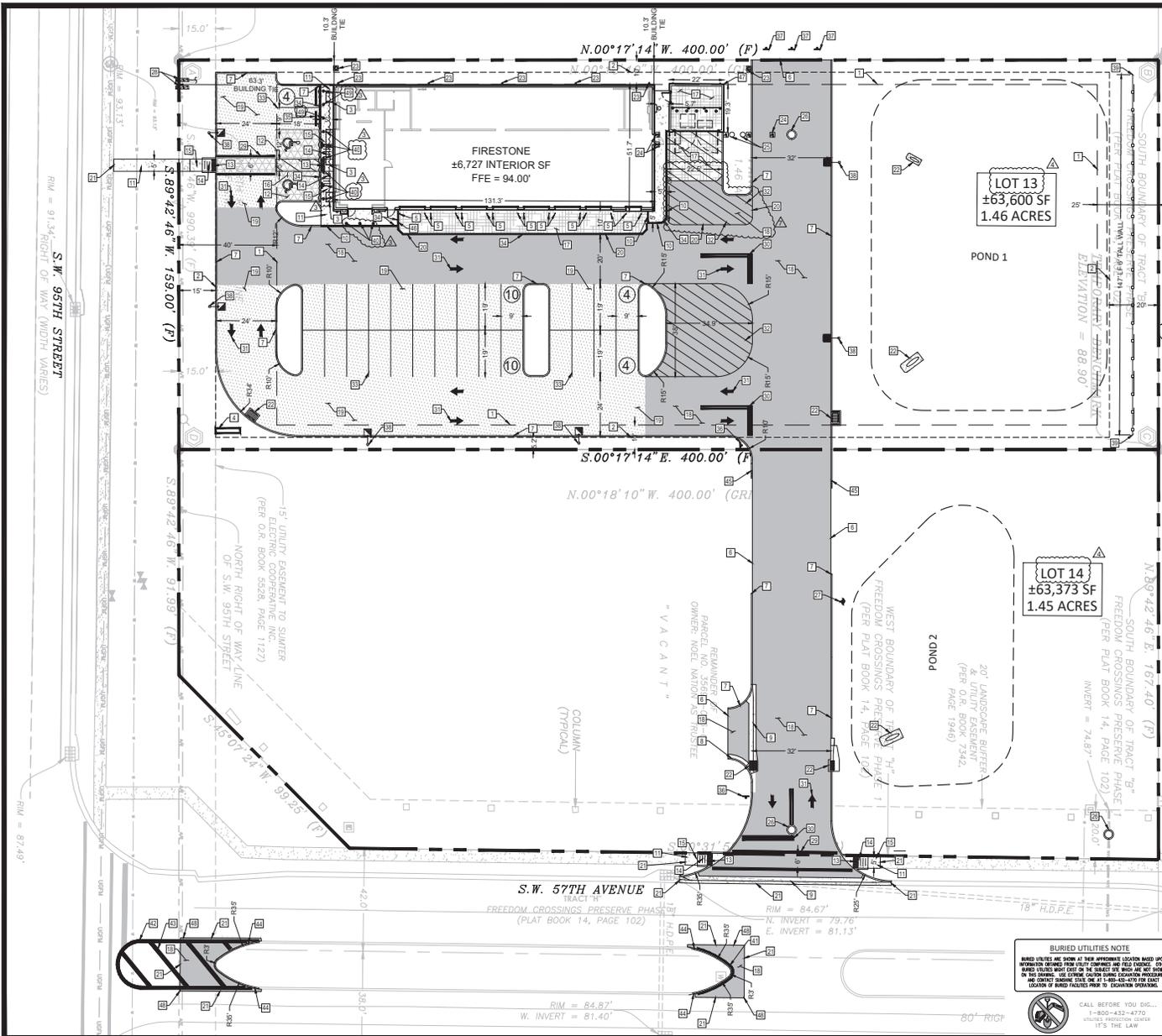
**BSRO FIRESTONE MAJOR SITE PLAN**

NO.	DATE	REVISION/ISSUE	BY	CHK	APP
1	04/04/2025	ISSUE FOR PERMIT	JR	RA	RA

PROJECT # **224.059**

DATE: 04/04/2025 SHEET: **C1**  
 SCALE: 1" = 40' SITE PLAN OVERALL

ENGINEER'S NAME & P.E. NUMBER: JEREMY R. ANDERSON, P.E. LICENSE NO. 71636



1 inch = 20 ft.  
 ELEVATIONS BASED ON  
 NAVD 88 VERTICAL DATUM  
 CONVERSION:  
 NGVD03 - NAVD88 = 1.001'

**LEGEND**

	CONCRETE		STANDARD DUTY CONCRETE PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT		HEAVY DUTY CONCRETE PAVEMENT
	STANDARD DUTY ASPHALT PAVEMENT		

**SITE PLAN NOTES**

- 1 BUILDING SETBACK
- 2 LANDSCAPE BUFFER
- 3 AWNING (SEE ARCHITECTURAL PLANS)
- 4 PROPOSED SIGNAGE
- 5 4" DIAMETER BOLLARD (TYP), DETAIL: 3 (C) & 4
- 6 2" TYPE 'D' CURB (TYP), DETAIL: (FDOT INDEX 520-001) / C8.2
- 7 TYPE 'D' CURB (TYP), DETAIL: (FDOT INDEX 520-001) / C8.2
- 8 TYPE 'D' CURB (TYP), DETAIL: (FDOT INDEX 520-001) / C8.2
- 9 CONCRETE VALLEY GUTTER, DETAIL: (FDOT INDEX 520-001) / C8.2
- 10 MONOLITHIC CURB & SIDEWALK (TYP), DETAIL: 9 / C8
- 11 CONCRETE SIDEWALK, DETAIL: (FDOT INDEX 522-001) / C8.3
- 12 HANDICAP ACCESSIBLE PARKING, SIGNAGE & MARKINGS DETAIL: 11 / C8
- 13 DETECTABLE WARNING, DETAIL: 7 / C8
- 14 HANDICAP ACCESSIBLE RAMP, DETAIL: (FDOT INDEX 522-002) / C8.3
- 15 5' X 5' LANDING (MIN), SLOPE NOT TO EXCEED 2%
- 16 STANDARD DUTY CONCRETE PAVEMENT (TYP), DETAIL: 2 / C8
- 17 HEAVY DUTY CONCRETE PAVEMENT (TYP), DETAIL: 2 / C8
- 18 HEAVY DUTY ASPHALT PAVEMENT (TYP), DETAIL: 7 / C8
- 19 STANDARD DUTY ASPHALT PAVEMENT (TYP), DETAIL: 7 / C8
- 20 CONCRETE APRON, DETAIL: 5 / C8
- 21 PROPOSED CURB/SIDEWALK/PAVEMENT TO TRANSITION SMOOTHLY TO EXISTING ADJACENT SURFACE - CONTRACTOR TO VERIFY CONNECTION LOCATION AND ELEVATION OF EXISTING ADJACENT SURFACE.
- 22 STORM DRAINAGE STRUCTURE (TYP), SEE SHEET C3 GRADING PLAN
- 23 ROOF DRAIN CLEANOUT (TYP), SEE SHEET C3 GRADING PLAN
- 24 SANITARY SEWER CLEANOUT (TYP), SEE SHEET C5 UTILITY PLAN
- 25 MANHOLE COVER TO GRAISE TRAP, SEE SHEET C5
- 26 SANITARY SEWER MANHOLE, SEE SHEET C5
- 27 PROPOSED PUBLIC FIRE HYDRANT
- 28 WATER CONNECTION/RPMETER, SEE SHEET C5 UTILITY PLAN
- 29 ADA COMPLIANT CROSSWALK DETAIL: 13 / C8, FOOT INDEX 711-001 / C8.4
- 30 24" WHITE STOP BAR PAVEMENT MARKING, DETAIL: 13 / C8
- 31 ON SITE DIRECTIONAL ARROW (TYP), DETAIL: 3 / C8
- 32 6" WHITE PAINT GORE STRIPING
- 33 6" WHITE PAINT STRIPING (TYP)
- 34 6" YELLOW CURB PAINT
- 35 ALL SIDEWALK AND APRON CURBS ADJACENT TO THE BUILDING SHALL BE PAINTED YELLOW, REFERENCE SPEC SECTION 09900. PAINT ENTIRE VERTICAL FACE AND A HORIZONTAL BAND 6" WIDE FROM THE EDGE OF THE CURB
- 36 CONCRETE WHEEL STOP (TYP), DETAIL: 10 / C8
- 37 STOP SIGN & POST, DETAIL: 4 / C8
- 38 6" ONLY SIGN, DETAIL: 5 / C8
- 39 SITE LIGHTING POLE, SEE PHOTOMETRIC PLAN
- 40 END OF 147 LF OF 6" CONCRETE WALL
- 41 6" DIAMETER BOLLARD, DETAIL: 3 (C) & 4
- 42 6" WIDE SOLID YELLOW PAINT STRIPING DETAIL: (FDOT INDEX 711-001) / C8.4
- 43 8" WIDE DOUBLE SOLID YELLOW PAINT STRIPING DETAIL: (FDOT INDEX 711-001) / C8.4
- 44 18" WIDE YELLOW GORE STRIPING, DETAIL: (FDOT INDEX 711-001) / C8.4
- 45 TYPE 'A' CURB (TYP), DETAIL: (FDOT INDEX 520-001) / C8.2
- 46 VERTICAL CURB TAPER, DETAIL: 14 / C8
- 47 FLUSH MONOLITHIC CURB & SIDEWALK, DETAIL: 15 / C8
- 48 DAMPSTER ENCLOSURE, DETAIL: 11 / C8
- 49 12" WIDE ASPHALT KEY, DETAIL: 16 / C8

**BURIED UTILITIES NOTE**  
 BURIED UTILITIES ARE SHOWN AS SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION RECEIVED FROM THE CITY OF PALM BEACH. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.



DATE: 04/04/2025  
 SCALE: 1" = 20'  
 SHEET: C.1.1

This item has been digitally signed and sealed by Jeremy R. Anderson, P.E., on the date indicated here.  
 Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**PALMETTO CAPITAL GROUP**  
 1643 WILLIAMSBURG SQUARE  
 LAKELAND, FL 33803  
 PHONE: (863) 806-1520



COMMON MARK ENGINEERING  
 400 EQUINEWATER DRIVE  
 ORLANDO, FL 32804  
 (407) 928-8888  
 AUTHORIZATION: 28844

NO.	DATE	REVISION/ISSUE
1	04/04/2025	ISSUE FOR PERMIT
2	04/04/2025	CLIENT COMMENTS
3	04/04/2025	CLIENT COMMENTS
4	04/04/2025	CLIENT COMMENTS
5	04/04/2025	CLIENT COMMENTS
6	04/04/2025	CLIENT COMMENTS
7	04/04/2025	CLIENT COMMENTS



PROJECT # 224.059  
 DATE: 04/04/2025  
 SHEET: C.1.1  
 SCALE: 1" = 20'  
 SITE PLAN







**EROSION/SEDIMENT CONTROL NOTES**

- CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPREDICTED EROSION AREAS. WHERE GENERAL EROSION CONTROL BMPs SHALL BE USED, THESE BMPs SHOULD BE SPECIFIC TO THE AREA WHERE THEY ARE BEING USED. BMPs SHOULD BE MAINTAINED AND REPAIRED AS NECESSARY TO MAINTAIN THEIR EFFECTIVENESS. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY. SEDIMENT CONTROL CONSISTS OF SILT FENCING, SAND BAGS AND FLOATING TURBIDITY BARRIERS. CURRENT FDOT SPECIFICATIONS, EROSION CONTROL MANUAL AND BEST MANAGEMENT PRACTICES (BMPs) SHALL BE USED TO DETERMINE THE APPROPRIATE EROSION CONTROL MEASURES TO BE INSTALLED.
- CONSTRUCTION SHALL RESPOND TO EROSION/SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR ANY UNEXPECTED ADDITIONAL MEASURES TO CONTROL EROSION/SEDIMENT CONTROL ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OF ORDER RECEIVED. NO ADDITIONAL COST TO THE OWNER.
- EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOOPED MATERIAL SHALL BE COVERED OR PROTECTED WITH EROSION/SEDIMENT CONTROL MEASURES.
- ESTABLISHMENT MATERIAL SHALL BE INSTALLED FOR EROSION/SEDIMENT CONTROL ON UNGRADED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES WILL BE TEMPORARILY OR PERMANENTLY CEASED. UNGRADED DEVELOPMENT AREAS SHALL BE COVERED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT PROTECTION IS IN PLACE AND ESTABLISHED CONSTRUCTION CONTROL MEASURES TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE RISK FOR EROSION/SEDIMENT CONTROL.

- ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4% SHALL BE SOODED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.
- WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND, GRASSING, ENTRENCHING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION ESTABLISHED ON THE GRASSING OR DRAINAGE TO THE SUMP.
- PERMANENT SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE AN AREA WITHIN THE PROJECT LIMITS FOR CONCRETE TURBIDITY WASHOUT ACTIVITIES. THIS AREA SHALL PROVIDE EROSION CONTROL. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND THROUGHOUT THE LIFE OF THE PROJECT.

- IN ADDITION TO THOSE RESPONSIBILITIES OUTLINED WITHIN THE CONSTRUCTION PLAN AND SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:
  - PROJECT SCHEDULE WITH EROSION/SEDIMENT CONTROL INSTALLATION AND MAINTENANCE DUE TO THE SPECIFIC DATES OF CONSTRUCTION ACTIVITIES.
  - ADAPTATION TO THE DESIGN EROSION/SEDIMENT CONTROL TO DIFFERENCES BETWEEN THE DESIGN PLANS AND ANTICIPATED CONSTRUCTION PRACTICE AND THE CONTRACTOR'S CONSTRUCTION METHODS.
  - NAME AND PHONE NUMBER OF CONTRACTOR REPRESENTATIVE RESPONSIBLE FOR EROSION/SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
  - THE CONTRACTOR WILL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY EROSION CONTROL. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT EROSION CONTROL.
  - THE DEVELOPMENT OF THE APPLICABLE BMPs TO ENSURE THE CONTROL OF OFF-SITE TRANSPORTATION OF SEDIMENT, NUTRIENTS, PESTICIDES, SOLUBLE AND NON-SOLUBLE OILS AND GREASES, AND OTHER POLLUTANTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PERMANENT EROSION CONTROL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.

- EROSION/SEDIMENT CONTROL MEASURES SHALL BE PLACED ADJACENT TO ALL NEAR AREAS WHERE THERE IS POTENTIAL FOR CONSTRUCTION WATER QUALITY DEGRADATION.
- ANY DISCHARGE FROM DRAINAGE ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION/SEDIMENT CONTROL AND TRANSPORTATION OF SUSPENDED SOLIDS TO RECEIVING WATER.
- ALL EXISTING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT APPLICATION'S SUPPLY FROM THE WATER MANAGEMENT DISTRICT.
- ALL EXISTING PUMPS, EROSION/SEDIMENT CONTROL, TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.
- ALL FILL SLOPES SHALL BE SILT FENCED AT THE TOP OF SLOPES.
- ALL SLOPES STEEPER THAN 2:1 AND WITH A HEIGHT OF 3 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MEASURES.
- FOR ADDITIONAL INFORMATION ON EROSION/SEDIMENT CONTROL, REFER TO THE "AGRICULTURE DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 62A.

- WHEN APPROPRIATE AND WHEN REQUIRED BY STATE, FEDERAL, OR LOCAL AGENCIES, CONSTRUCTION RECEIVING WATER SHALL BE MONITORED THROUGHOUT CONSTRUCTION FOR TURBIDITY AND TSS. BACKGROUND SAMPLES SHALL BE TAKEN FROM AN UNDISTURBED LOCATION.
- EXCAVATED MATERIAL SHALL BE COVERED BY SHADES, SLATS SHALL BE COVERED AS SHOWN ON PLAN.
- EXCAVATED MATERIAL SHALL BE COVERED IMMEDIATELY WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOOPED MATERIAL SHALL BE COVERED OR PROTECTED WITH EROSION/SEDIMENT CONTROL MEASURES.
- EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED BY THIS SPECIFICATION ARE BEING INSTALLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.
- GENERAL EROSION CONTROL SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPTHEMSTREAM LOCATION.
- ALL EXISTING EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND THROUGHOUT THE LIFE OF THE PROJECT.
- HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LIQUIDS FROM ENTERING SITE DRAINAGE SYSTEMS INCLUDING SEDIMENTATION COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DRIPS OR SILT SCREENS AND SEDIMENT BASINS WITHIN SUCH AREAS AS REQUIRED TO COLLECT SPILLS OF OIL, GREASE, LIQUIDS OR OTHER CONTAMINANTS. CONTRACTORS SHALL HAVE AVAILABLE AND SHALL USE ADEQUATE TIE-IN PIPES TO CLEAN UP SPILLS IMMEDIATELY AFTER OCCURRENCE.

- CONTROL OF FUGITIVE DUST AND WIND EROSION
  - THESE NOTES ARE PROVIDED TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, TO REDUCE ON AND OFF SITE DAMAGE AND HEALTH HAZARDS, AND TO MINIMIZE TRAFFIC SAFETY ON THE CONSTRUCTION SITE.
  - THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO JUST BLOWING AND MOVEMENT WHEN ON AND OFF SITE DAMAGE IS LIKELY WITHOUT TREATMENT. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES AS APPROPRIATE AND AS DIRECTED BY THE ENGINEER.
  - THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:
    - MULCH/SEE STANDARDS FOR ESTABLISHMENT WITH MULCHES ONLY.
    - VEGETATIVE COVER: SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SO2.
    - SMOY (OR ALTERNATES) (SEE CHART BELOW) - ON-ROAD SLOPES NOT EFFECTIVE ON UNKULDED SOILS, KEEP TRAFFIC OFF THESE AREAS.

MATERIAL	WATER DRAINAGE	TYPE OF DRAINAGE	APPROXIMATE LENGTH
ADDITIONAL MULCH	CONCRETE	CONCRETE	200
LATER MULCH	LESS	LESS	200
WATER DRAINAGE	LESS	LESS	200
POLYMERIZATION PASTE - SPREAD ON	WATER DRAINAGE	WATER DRAINAGE	200
ACCELERATED CEMENT SETTING	WATER DRAINAGE	WATER DRAINAGE	200

- TILLAGE TO ROUGHEN SURFACE AND BRING CLOSD TO SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN FLOWING OR IMPROVED SIDE OF SITE. THESE MEASURES SHOULD BE USED TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
- SPRINKLING: SEE STANDARDS UNDER THE EROSION/SEDIMENT CONTROL.
- WATERING: SOLID BOARD FENCES, SNOW FENCES, TURBIDITY FENCES, GRADE WALKS, SAND BAGS, AND OTHER MEASURES SHALL BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- CALCIUM CHLORIDE: SHALL BE IN THE FORM OF POWDER, ORY DRUMS OR PLANS. FINE ENOUGH TO FEEL THROUGH COMMONLY USED SCREENS AT A RATE THAT WILL KEEP EROSION CONTROL MATS FROM BEING WASHED AWAY BY WIND. CALCIUM CHLORIDE SHALL BE APPLIED TO EXPOSED SOIL SURFACES TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
- STRAW: COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.
- THE PRESENT OPERATION OF DUST IN REFERENCE TO APPLYING TO PREVENTION MEASURES. ENSURE IN THE PROJECT SCHEDULE THAT THE AREA OF CLEARING LAND IS MINIMIZED DURING THE CONSTRUCTION OF THE ROAD. WHEREVER OPERATIONS ARE CONDUCTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.
- THE SOIL SHALL BE MAINTAINED IN A SUFFICIENTLY COMPACT CONDITION TO PREVENT SOIL CRACKING OR SOIL FROM BECOMING DISJOINED. THE SOIL SHALL BE COMPLETELY CRUSTED OVER BY APPLICATION OF WATER OR COMPLETELY COVERED WITH CLEAN GRAVEL OR TREATED WITH AN APPROVED DUST SUPPRESSANT.
- PAVE AND WATER HALL ROAD. THE FREQUENCY OF WATERING WILL BE DETERMINED BY WEATHER CONDITIONS AND THE STABILITY OF THE SOIL. IF ADDITIVES IN THE WATER ARE USED TO INCREASE DUST SUPPRESSION EFFECTIVENESS, THE CONTRACTOR SHALL HAVE AVAILABLE AND SHALL USE ADEQUATE TIE-IN PIPES TO CLEAN UP SPILLS IMMEDIATELY AFTER OCCURRENCE.
- WATER AREAS OTHER THAN LAKE, RIVERS, OR OTHER AREAS OF WATER SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND THROUGHOUT THE LIFE OF THE PROJECT.
- ENSURE THAT SWAMPY AREAS ARE KEEP PAVED AND NOT FLOWING AND CLODDY TO REDUCE THE WIND VELOCITY AT THE SOIL SURFACE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.
- SHOULDER AND FENCE SHALL BE APPROPRIATE FOR THE SITE. AS A CONTINGENCY MEASURE, IN AREAS THAT DO NOT HAVE ACCESS TO A WATER SUPPLY, WATER STORED ON SITE SHOULD NEVER BE LESS THAN 18 INCHES DEEP. WHENEVER WATERING IS USED TO SUPPRESS DUST, ENGINEER DOES NOT HAVE TO BE CONTACTED FOR WATER STORED ON SITE THAT WILL CONTAMINATE SURFACE WATER.
- WATER BARRIERS WHEN REQUIRED TO PREVENT THE MOVEMENT OF SEDIMENT OR PARTICULATES FROM SINKING OR SPILL PREPARATION ACTIVITIES DURING CONSTRUCTION.
- ALL BARE EARTH SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO MINIMIZE THE PRODUCTION OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

12. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION BARE EARTH AREAS SHALL BE VEGETATED.
13. AT ANY TIME DURING AND AFTER SITE CONSTRUCTION THAT WINDBORNE EROSION OR UNEXPECTED WIND EROSION AROUND EROSION CONTROL MEASURES OR OTHER EROSION CONTROL MEASURES IS OBSERVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.

14. WHEREVER EROSION/SEDIMENT CONTROL MEASURES ARE REQUIRED TO BE INSTALLED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL EROSION/SEDIMENT CONTROL MEASURES.

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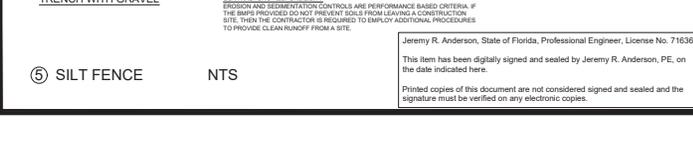
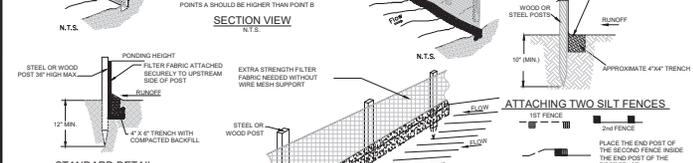
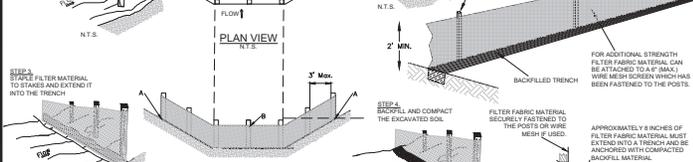
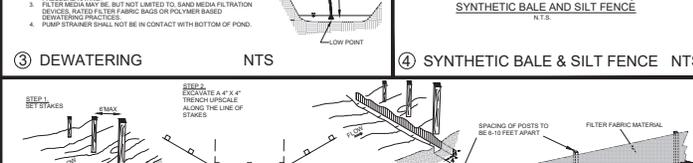
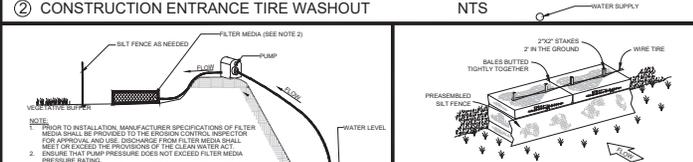
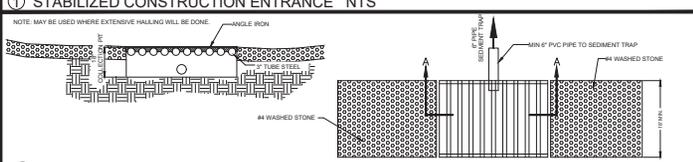
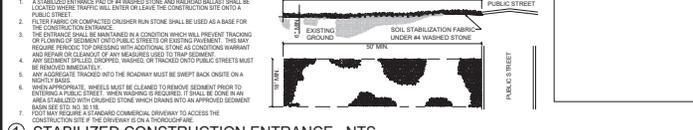
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**PALMETTO CAPITAL GROUP**  
1643 WILLIAMSBURG SQUARE  
LAKELAND, FL 33809  
PHONE: (863) 808-1520

**COMMON MARK**  
CONSTRUCTION MANAGEMENT

COMMISSION ON ENGINEERING AND SURVEYING  
ORLANDO, FL 32804  
LAST ISSUED: 08/2018  
AUTHORIZATION: 18444

**BSRO FIRESTONE**  
STORE FRID  
MAJOR SITE PLAN  
&  
NWC OF SW/81/ST  
&  
SW/16/ST  
OCW, A. F. 33/47  
MADON COUNTY

DATE	REVISION	DESCRIPTION
04/04/2025	1	ISSUED FOR PERMIT

PROJECT # **224.059**

DATE **04/04/2025** SHEET **NTS**  
SCALE **C4.1**  
EROSION CONTROL DETAILS

DATE **04/04/2025** SHEET **NTS**  
SCALE **C4.1**  
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SCALE **C4.1**  
EROSION CONTROL DETAILS

**PALMETTO CAPITAL GROUP**  
 1643 WILLIAMSBURG SQUARE  
 LAKELAND, FL 33808  
 PHONE: (863) 806-1520



COMMON MARK ENGINEERING  
 4000 LEONOWATER DRIVE  
 ORLANDO, FL 32804  
 (407) 561-8676  
 AUTHORIZATION: 28844

**BSRO FIRESTONE**  
 MAJOR SITE PLAN  
 STORE #180  
 NWC OF SW 98TH ST  
 &  
 SW 6th AVE  
 MARION COUNTY

NO.	DATE	REVISION/ISSUE	BY	CHKD	APP'D
1	04/04/2025	ISSUE FOR PERMIT	JR	JR	JR
2	04/04/2025	REVISIONS TO PERMIT	JR	JR	JR
3	04/04/2025	REVISIONS TO PERMIT	JR	JR	JR
4	04/04/2025	REVISIONS TO PERMIT	JR	JR	JR
5	04/04/2025	REVISIONS TO PERMIT	JR	JR	JR
6	04/04/2025	REVISIONS TO PERMIT	JR	JR	JR
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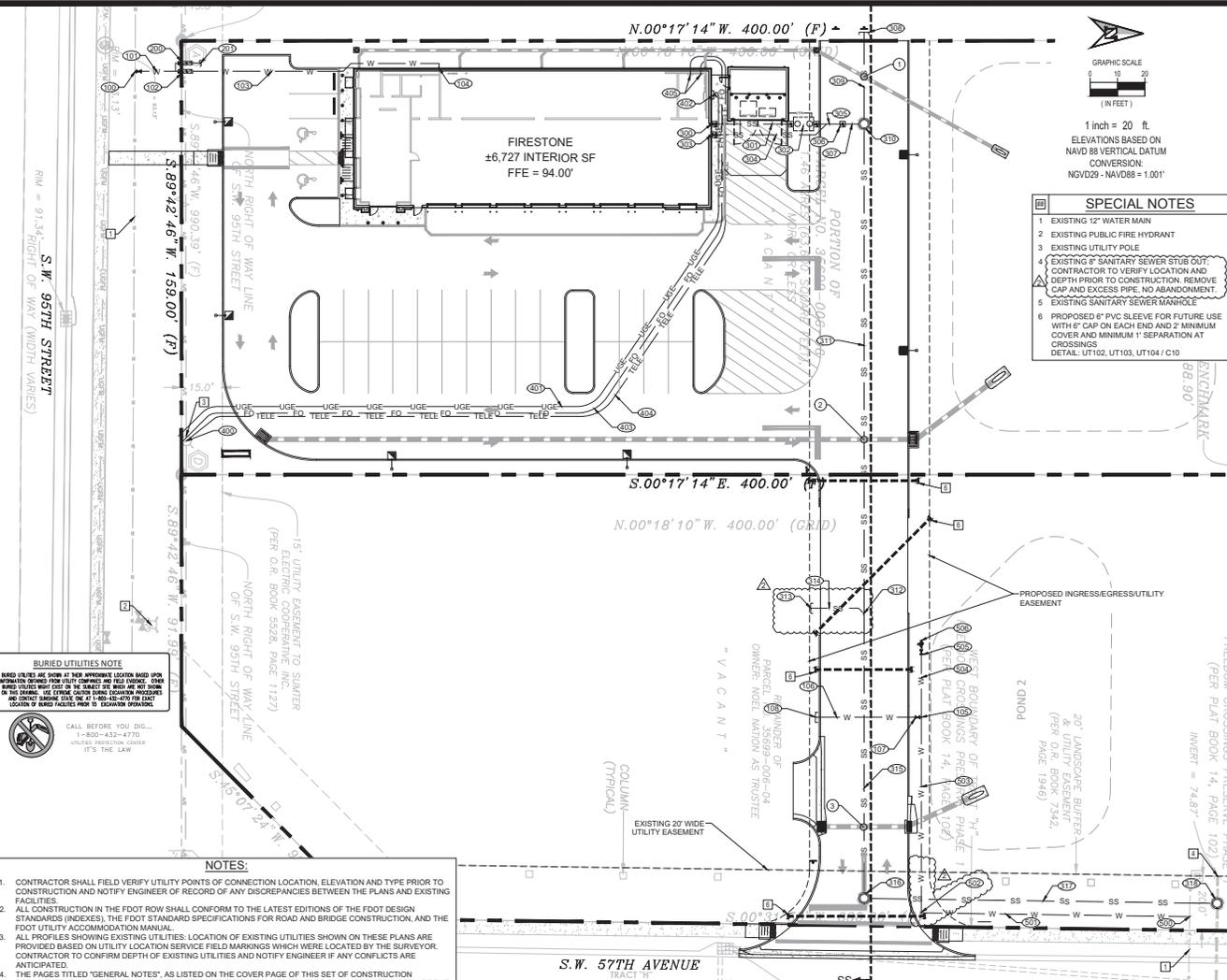
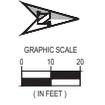
PROJECT # **224.059**  
 DATE **04/04/2025**  
 SCALE **1" = 20'**  
 SHEET **C5**

**UTILITY PLAN KEYNOTES**

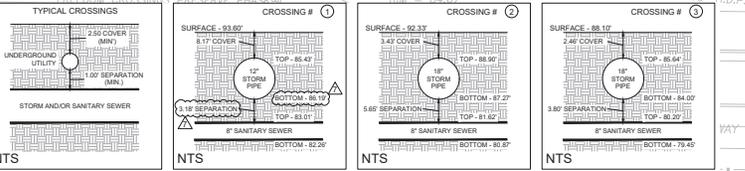
- CONNECT PROPOSED 2" PVC WATER MAIN TO EXISTING 12" WATER MAIN WITH 1" REDUCER AND 2" 90° ASSEMBLY. DETAIL: UT102 / C10.1
  - CONTRACTOR SHALL VERIFY THE LOCATION & DEPTH OF EXISTING WATER MAIN BEFORE START OF CONSTRUCTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS. DETAIL: UT116A, UT116B, UT201 / C10.1
  - 110' 4" LF OF 2" PVC WATER SERVICE LINE. DETAIL: UT102, UT103, UT104 / C10.1
  - EXISTING WATER METER AND 2" 90° ASSEMBLY. DETAIL: UT209 / C10.1
  - END OF MARION COUNTY MAINTENANCE AT METER
  - CONNECT WATER LINE TO STUB-OUT LOCATION FROM BUILDING. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS. DETAIL: UT102, UT103, UT104 / C10
  - 1" (FC) TAPPING SLEEVE
  - 430.8 LF OF 2" PVC WATER SERVICE LINE TO STUB-OUT. DETAIL: UT102, UT103, UT104 / C10
  - 2" GATE VALVE WITH TRAFFIC RATED COVER
  - 2" CAP FOR FUTURE USE
  - 2" 90° ELBOW AND IRRIGATION METER WITH 2" x 1" REDUCER. DETAIL: UT102, UT103 / C10.1
  - END OF MARION COUNTY MAINTENANCE. TOTAL IRRIGATED AREA: ±28,734 SF
  - SEE SHEET C7.1 FOR REMAINING IRRIGATION SYSTEM
  - CONNECT TO STUB OUT AT BUILDING WITH 6" TWO-WAY CLEANOUT INV. = 90.00'
  - CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS. DETAIL: 2 / C10
  - 430.0 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - 750 GALLON DRAINER SEPARATOR 6" INFLUENT INV. = 89.70', 6" EFFLUENT INV. = 89.47' DETAIL: UT300, UT310, 3 / C10.2
  - CONNECT TO STUB OUT AT BUILDING WITH 6" TWO-WAY CLEANOUT INV. = 89.88'
  - CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS. DETAIL: 2 / C10
  - 443.9 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - 410.7 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - 6" DROP CLEANOUT. HIGH INV. = 89.38', LOW INV. = 88.38' DETAIL: 4 / C10.2
  - 45.9 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - 8" CAP FOR FUTURE USE. INV. = 80.52'
  - 431.6 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - MANHOLE WITH COFFER TOP CONNECTION. RISE = 30.64'
  - MANHOLE TO BE LINED IN USE COMPOSITE RING AND COVER
  - SOUTH HIGH INV. = 85.32', SOUTH LOW INV. = 82.11' WEST INV. = 82.11', EAST INV. = 82.01'. DETAIL: UT301, UT302, UT303, UT306 / C10.2
  - WYE LATERAL  
INV. = 80.24'  
DETAIL: UT312 / C10.2
  - 6" CAP INV. = 80.84' DETAIL: 1 & UT109 / C10
  - 420.4 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - 410.2 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%. DETAIL: UT102, UT103, UT104 / C10
  - MANHOLE. RISE = 49.20'
  - WEST INV. = 79.2', NORTH INV. = 79.11'  
DETAIL: UT302, UT303, UT306, UT308 / C10.2
  - 412.5 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.5%. DETAIL: UT102, UT103, UT104 / C10
  - MANHOLE WITH COFFER TOP CONNECTION. RISE = 30.64'
  - SOUTH HIGH INV. = 77.86', SOUTH LOW INV. = 74.87', EXISTING 6" EFFLUENT EAST INV. = 74.77' DETAIL: SEE NOTE 1 THIS SHEET & UT303, UT306, UT308, UT309 / C10.2
- ELECTRIC AND COMMUNICATIONS**
- COORDINATE ELECTRIC AND TELEPHONE SERVICE CONNECTIONS WITH APPROPRIATE SERVICE PROVIDERS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC CONNECTION LOCATIONS AND REQUIREMENTS
- PROPOSED APPROXIMATE ELECTRIC, TELEPHONE, AND DATA SERVICE CONNECTION POINTS. ELECTRIC TO CONNECT TO POLE MOUNTED TRANSFORMER. CONTRACTOR TO VERIFY LOCATION OF SERVICE CONNECTION POINTS BEFORE CONSTRUCTION.
  - 428.4 LF OF UNDERGROUND ELECTRIC FROM SERVICE CONNECTION POINT TO BUILDING
  - APPROXIMATE ELECTRIC SERVICE CONNECTION TO BUILDING. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
  - 430.1 LF OF 2" CONDUIT FROM DATA SERVICE CONNECTION POINT TO BUILDING
  - 415.7 LF OF 2" CONDUIT FROM TELEPHONE SERVICE CONNECTION POINT TO BUILDING
  - APPROXIMATE TELEPHONE AND DATA SERVICE CONNECTION TO BUILDING. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
- FIRE SERVICE CONNECTION**
- CONNECT PROPOSED 6" WATER LINE TO EXISTING 12" WATER MAIN. REMOVE CAP AND INSTALL 90° BEND. DETAIL: UT102, UT103, UT104 / C10.1
  - CONTRACTOR SHALL VERIFY THE LOCATION & DEPTH OF EXISTING WATER MAIN BEFORE START OF CONSTRUCTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS. DETAIL: UT116A, UT116B, UT201 / C10.1
  - 418.4 LF OF 6" RESTRAINED C900 DR-18 PVC WATER SERVICE LINE. DETAIL: UT102, UT103, UT104 / C10 & UT116A, UT116B, UT201 / C10.1
  - 6" 90° RESTRAINED BEND. DETAIL: UT102, UT103, UT104 / C10 & UT116A, UT116B, UT201 / C10.1
  - 471.7 LF OF 6" RESTRAINED C900 DR-18 PVC WATER SERVICE LINE. DETAIL: UT102, UT103, UT104 / C10 & UT116A, UT116B, UT201 / C10.1
  - 420.2 LF OF 6" RESTRAINED C900 DR-18 PVC WATER SERVICE LINE. DETAIL: UT102, UT103, UT104 / C10 & UT116A, UT116B, UT201 / C10.1
  - 6" GATE VALVE. DETAIL: UT201 / C10.1
  - PROPOSED PUBLIC FIRE HYDRANT W/ RIED PAINT. DETAIL: UT210 / C10.1

**SPECIAL NOTES**

- EXISTING 12" WATER MAIN
- EXISTING PUBLIC FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING 6" SANITARY SEWER STUB OUT. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION. REMOVE CAP AND EXCESS PIPE. NO ABANDONMENT.
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED 6" PVC SLEEVE FOR FUTURE USE WITH 6" CAP ON EACH END AND 2" MINIMUM COVER AND MINIMUM 1' SEPARATION AT CROSSINGS. DETAIL: UT102, UT103, UT104 / C10



- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY UTILITY POINTS OF CONNECTION LOCATION, ELEVATION AND TYPE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING FACILITIES.
  - ALL CONSTRUCTION IN THE FOOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FOOT DESIGN STANDARDS (UNDERGROUND UTILITIES) SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FOOT UTILITY ACCOMMODATION MANUAL.
  - ALL PROFILES SHOWING EXISTING UTILITIES: LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE PROVIDED BASED ON UTILITY LOCATION SERVICE FIELD MARKINGS WHICH WERE LOCATED BY THE SURVEYOR. CONTRACTOR TO CONFIRM DEPTH OF EXISTING UTILITIES AND NOTIFY ENGINEER IF ANY CONFLICTS ARE ANTICIPATED.
  - THE PAGES TITLED "GENERAL NOTES", AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL NOTES" SHEETS TO ALL BIDDERS AND SUBCONTRACTORS.
  - ALL DISTURBED AREAS TO BE SODED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.
  - CONTRACTOR TO REFER/COORDINATE THE WORK SHOWN HEREIN WITH THE WORK SHOWN ON THE REMAINDER OF THESE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES BETWEEN THE WORK SHOWN ON THIS AND OTHER PAGES IS FOUND, OR IF THE CONTRACTOR HAS ANY QUESTIONS OF ANY KIND, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING PRIOR TO THE PERFORMANCE OF ANY WORK.
  - CONTRACTOR SHALL SHOOT SANITARY SEWER AND STORM WATER INFRASTRUCTURE AS-BUILT DATA AND SUBMIT TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO ASPHALT PAVEMENT AND BASE COURSE INSTALLATION.
  - ALL PIPE BENDS ARE 45° UNLESS NOTED OTHERWISE.
  - ANY CONSTRUCTION ACTIVITIES NOT LOCATED ON THE ACTUAL PROJECT SITE SHALL BE CONSTRUCTED ENTIRELY WITHIN THE PUBLIC RIGHT OF WAY IN ACCORDANCE WITH THE A.U. PERMITS AND REQUIREMENTS.
  - FOR UTILITY CROSSINGS/CONFLICTS, SEE SHEET CS UTILITY PLAN, PROFILE SS-SS ON SHEET C10.3, AND MARION COUNTY DETAIL UT113 ON SHEET C10.1.
  - UTILITY EASEMENTS SHOWN FOR SANITARY SEWER AND WATER SUPPLY TO PUBLIC FIRE HYDRANT ARE DEDICATED TO THE PUBLIC FOR THE MAINTENANCE AND OPERATION BY THE UTILITY PROVIDER.



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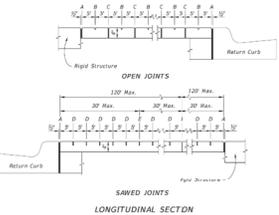




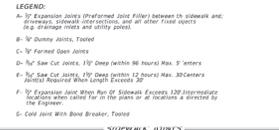


**GENERAL NOTES:**

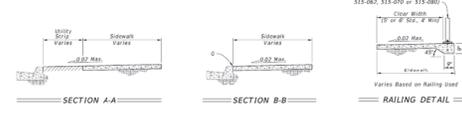
1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps located within Curb Return. See Plan View. Equal all other concrete with thickness as shown, unless otherwise detailed in the Plans.
2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
3. For Driveways see Index 523-003.
4. Road breaker material can be any impervious coated or seal membrane or preformed material having a thickness of not less than 6 mils and not more than 1/2".
5. Construct sidewalks with Edge Beams through the limits of the surface mounted Pedestrian/Bicycle Railing or Free-Installment Inset in the joints. (See RAILING DETAILS).



**LEGEND:**  
 4" Thick Sidewalk  
 6" Thick Sidewalk  
 Utility Strip



**LEGEND:**  
 A- 3/4" Expanded Joint (Preformed Joint Filler) between sidewalk and driveway, sidewalk (over structure), and all other fixed objects.  
 B- 1/2" Dimpled Joints, Tied  
 C- 1/2" Formed Open Joints  
 D- 1/2" Saw Cut Joints, 1/2" Deep (within 60" board Max. 6" centers)  
 E- 1/2" Saw Cut Joints, 1/2" Deep (within 12" board Max. 6" centers) Joints Required Where Length Exceeds 30'  
 F- 1/2" Expanded Joint (Preformed Joint Filler) between sidewalk and driveway when called for in the plans or otherwise directed by the Engineer.  
 G- Cold Joint With Road Breaker, Tied

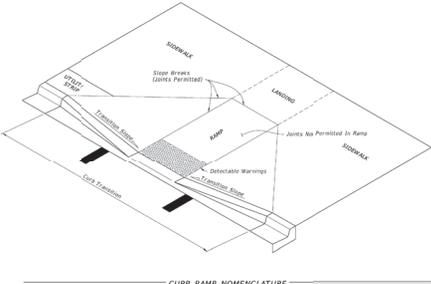


**GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS**

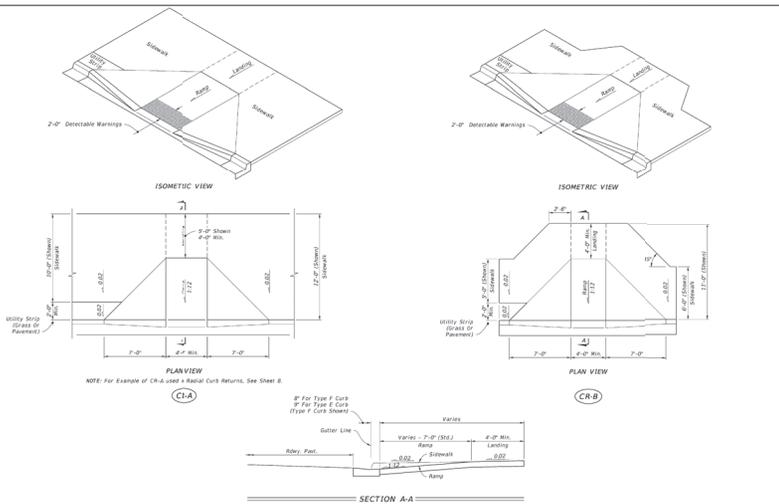
LAST REVISION: 11/01/20	DESCRIPTION: STANDARD PLANS	FY 2024-25	INDEX: 522-001	SHEET: 1 of 2
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**GENERAL NOTES:**

1. Cross Slopes and Grades:  
 A. Sidewalk, ramp, and landing slopes (i.e. 0.0, 0.05, and 1:12) shown in this Index are minimums. With approval of the Engineer, provide the maximum feasible slope where the requirements cannot be met.  
 B. Landings must have cross-slopes less than or equal to 0.02 in any direction.  
 C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
2. Joints in the location of Shop Ramps, whenever feasible joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
3. Curb, Curb and Gutter, Sidewalk:  
 A. Refer to Index 522-001 for concrete thickness and sidewalk details.  
 B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent the remaining section is less than 5 feet long.  
 C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
3. Curb Ramp Alpha-Identification:  
 A. Sidewalk curb ramp alpha-identifications (eg. CR-A) are provided for reference purposes in the Plans.  
 B. Alpha-identifications CR-I and CR-J are intentionally omitted.
4. Detectable Warnings:  
 A. Install detectable warnings in accordance with Specification 527.  
 B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.  
 C. If detectable warnings are shown in the Plans on slopes greater than 3%, slope the ramp/done with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.

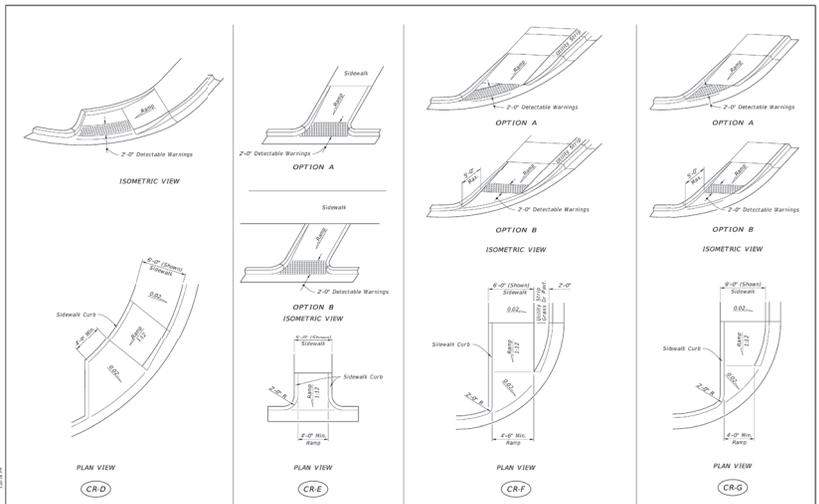


LAST REVISION: 11/01/20	DESCRIPTION: STANDARD PLANS	FY 2024-25	INDEX: 522-002	SHEET: 1 of 7
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**SIDEWALK CURB RAMPS CR-A AND CR-B**

LAST REVISION: 11/01/20	DESCRIPTION: STANDARD PLANS	FY 2024-25	INDEX: 522-002	SHEET: 2 of 7
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**SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G**

LAST REVISION: 11/01/20	DESCRIPTION: STANDARD PLANS	FY 2024-25	INDEX: 522-002	SHEET: 4 of 7
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**COMMON DARK ENGINEERING**  
 4000 EQUINEWAY DRIVE  
 ORLANDO, FL 32804  
 (407) 955-8585  
 AUTHORIZATION: 38844

**BSRO FIRESTONE**  
 MAJOR SITE PLAN  
 STORE FIBER  
 NWC OF SW 98TH ST  
 &  
 SW 6th AVE  
 Ocala, FL 33476  
 MARION COUNTY

DATE: 04/04/2025	SCALE: N.T.S.	PROJECT # 224.059	SHEET: 4 of 7
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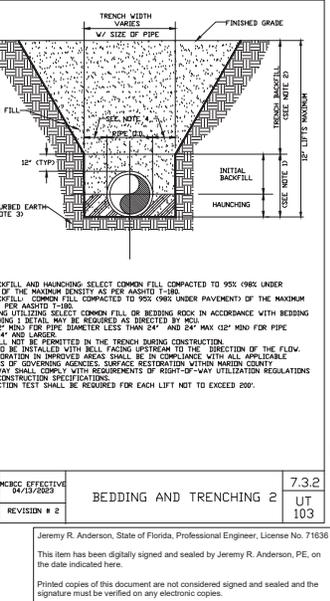
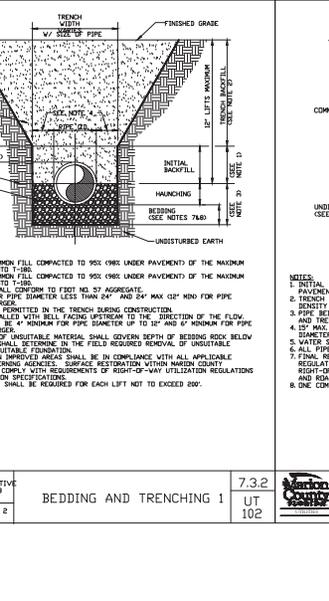
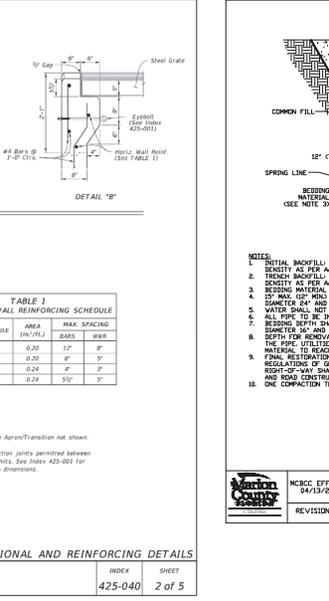
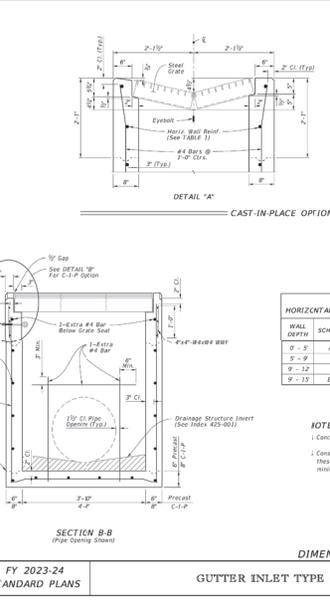
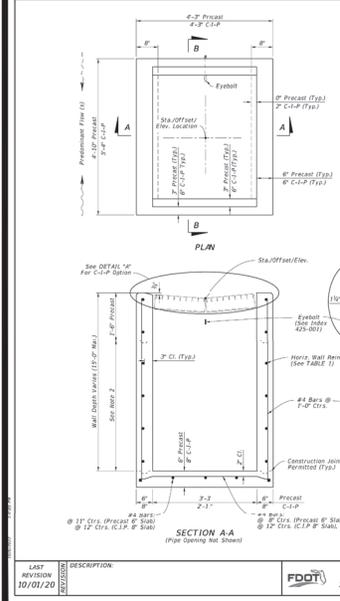
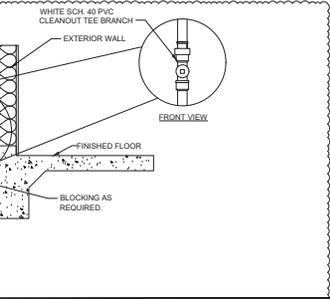
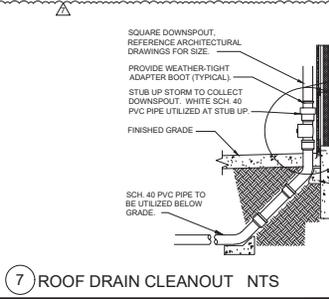
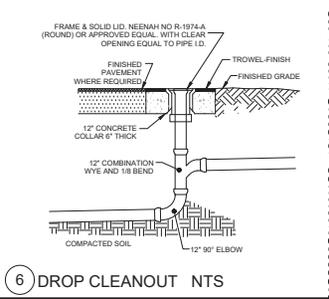
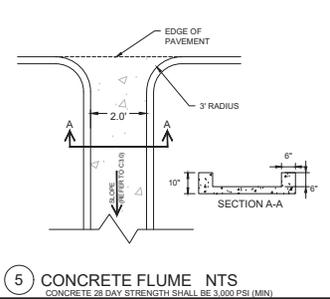
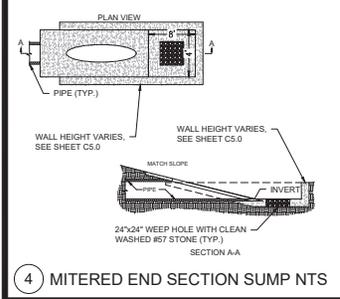
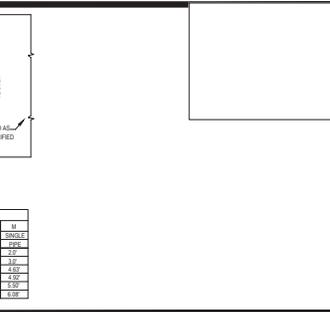
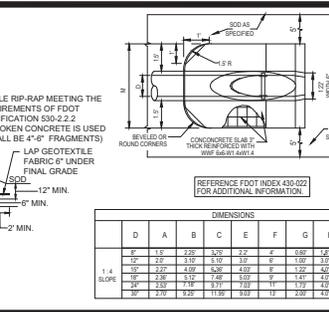
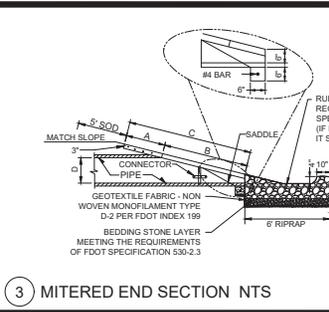
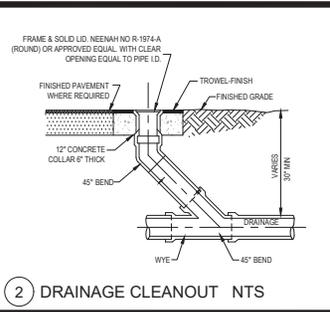
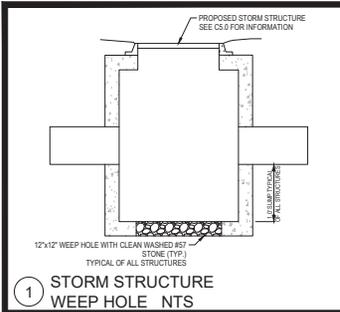


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 SCALE: N.T.S.  
**C8.3**  
 FOOT DETAILS







LAST REVISION: 10/01/20

DESCRIPTION: FY 2023-24 STANDARD PLANS

INDEX: 425-040

SHEET: 2 of 5

DESCRIPTION: GUTTER INLET TYPE 8

INDEX: 425-040

SHEET: 2 of 5

DESCRIPTION: BEDDING AND TRENCHING 1

INDEX: UT 102

SHEET: 7.3.2

DESCRIPTION: BEDDING AND TRENCHING 2

INDEX: UT 103

SHEET: 7.3.2

DESCRIPTION: GRADING DETAILS

INDEX: N.T.S.

SHEET: C9

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4001 EAGLEWATER DRIVE  
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AUTHORIZATOR: 28844

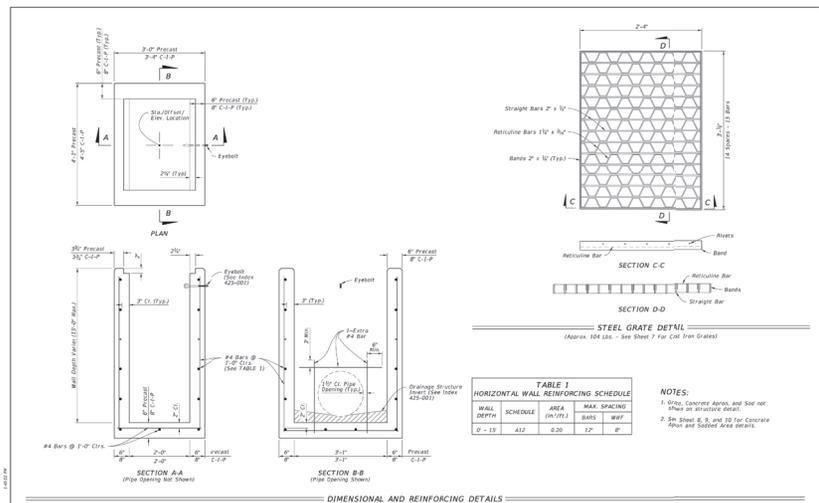
**BSRO FIRESTONE**  
MAJOR SITE PLAN  
STORE FRID  
11000 SW 97TH ST  
&  
SW 64th AVE  
MARDON COUNTY

DATE: 04/13/2023  
REVISION # 2  
DATE: 04/13/2023  
REVISION # 2

PROJECT # 224.059

DATE: 04/04/2025  
SCALE: N.T.S.  
SHEET: C9

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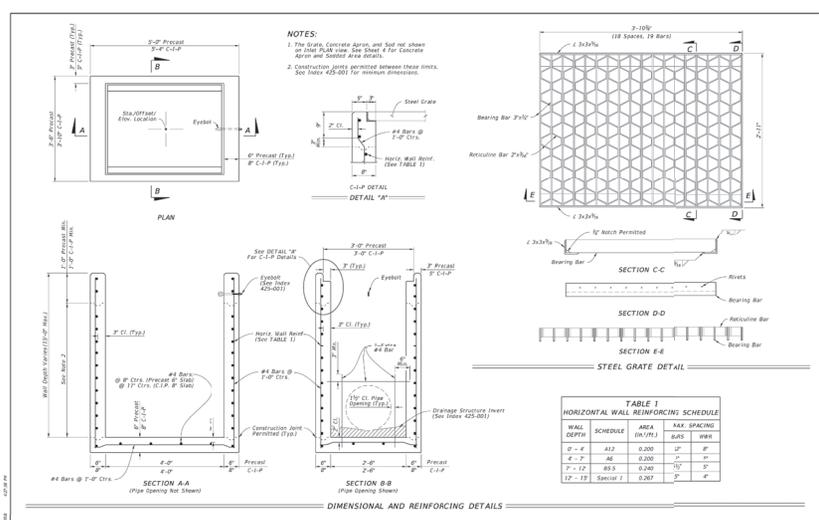


**TABLE 1**  
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (sq./ft.)	MAX. SPACING	BARS	W/R
0 - 15	A12	0.26	12"	6"	

**NOTES:**  
 1. Grate, Concrete Apron, and Soil not shown when so indicated.  
 2. See Steel S, S, and D2 for Concrete Foot and Sillout Area Details.

**TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS**  
 DITCH BOTTOM INLET TYPES C, D, E, AND H



**TABLE 1**  
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (sq./ft.)	MAX. SPACING	BARS	W/R
0' - 4'	A12	0.260	12"	6"	
4' - 7'	B6	0.260	12"	6"	
7' - 12'	B5.5	0.240	10"	3"	
12' - 15'	Section 1	0.260	12"	6"	

**NOTES:**  
 1. The Grate, Concrete Apron, and Soil not shown when so indicated.  
 2. See Steel S, S, and D2 for Concrete Foot and Sillout Area Details.  
 3. Construction joints permitted between these walls. See Table 4.5-03 for minimum dimensions.

**TYPE F - DIMENSIONAL, REINFORCING, AND GRATE DETAILS**  
 DITCH BOTTOM INLET TYPES F AND G

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---

**COMMON BARK**  
 ENGINEERING

---

**BSRO FIRESTONE**  
 AT  
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 NMC OF SW 96TH  
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 Ocala, FL 33476  
 MARION COUNTY

---

**ENGINEER'S NAME & SEAL**  
  
 JEREMY R. ANDERSON, P.E.  
 LICENSE NO. 71636

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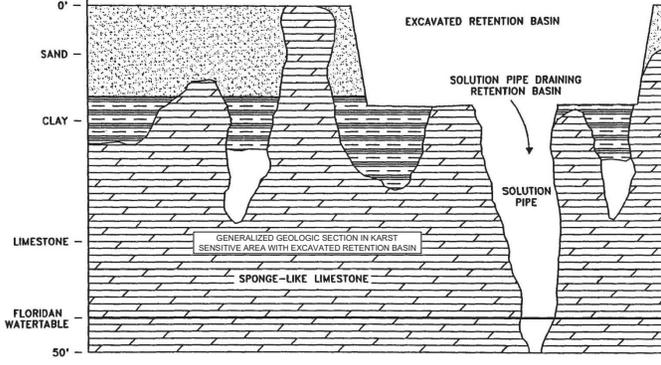
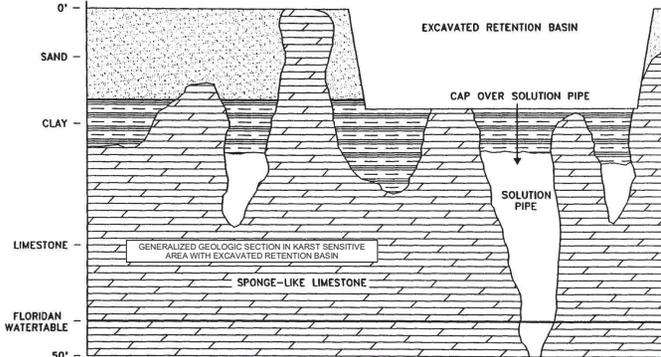
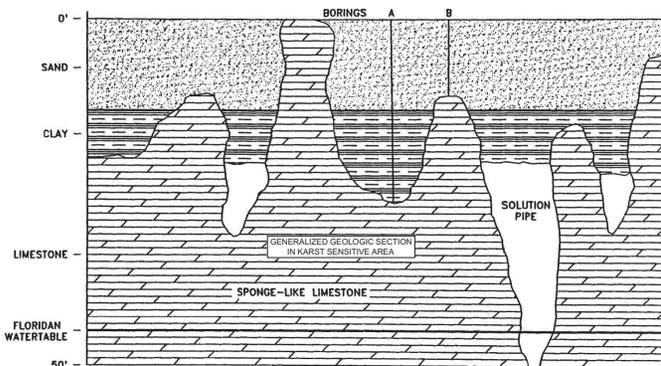
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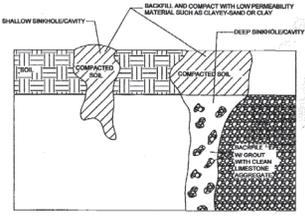
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**GRADING DETAILS**







**RECOMMENDATIONS FOR KARST SENSITIVE AREAS**



SECTION VIEW

**NOTES**  
 IN THE EVENT THAT ANY KARST FEATURES SUCH AS SINKHOLES, SOLUTION CAVITIES, CHIMNEYS, ETC. ARE DISCOVERED DURING ROUTINE INSPECTIONS OF THE STORMWATER BASINS, THE FOLLOWING REMEDIATION PROCEDURE SHALL BE PERFORMED.

**SHALLOW REPAIR (SEE DETAIL):**  
 IF THE COLLAPSE IS SHALLOW (<4' DEEP) AND THE VOIDS IN THE LIMESTONE ARE SMALL, THEN THE SINKHOLE CAN BE REPAIRED BY BACKFILLING WITH A LOWER PERMEABILITY MATERIAL, SUCH AS CLAYEY SAND OR CLAY. THE MATERIAL SHOULD BE COMPACTED AND THE REPAIR SHALL BE SLIGHTLY ABOVE THE ORIGINAL BOTTOM IN ORDER TO CREATE A SMALL MOUND TO ACCOUNT FOR SETTLING.

**DEEP REPAIR (SEE DETAIL):**  
 IF THE COLLAPSE IS DEEP, THEN THE REPAIR SHALL BE MORE PERMANENT. THE COLLAPSE SHALL BE EXCAVATED TO THE LIMESTONE BEDROCK (THE VOIDS) IN MATERIAL SHALL BE PLACED OVER THE CONCRETE PLUG. THE MATERIAL SHALL BE COMPACTED AND BROUGHT TO EXISTING BASIN BOTTOM.

**NOTIFICATION:**  
 THE APPLICABLE WATER MANAGEMENT DISTRICT SHALL BE NOTIFIED OF ANY SINKHOLE DEVELOPMENT WITHIN 48 HOURS OF DISCOVERY AND THE PROPOSED METHOD BY WHICH THE SINKHOLE WILL BE REPAIRED SHALL BE SUBMITTED TO THE WATER MANAGEMENT DISTRICT FOR APPROVAL WITHIN 30 DAYS. THE WATER MANAGEMENT DISTRICT WILL THEN NOTIFY THE RESPONSIBLE PARTY AS TO THE ACCEPTANCE, DENIAL OR NEED FOR MODIFICATION OF THE REPAIR METHOD.

A MINIMUM OF THREE FEET OF UNCONSOLIDATED SOIL MATERIAL BETWEEN THE SURFACE OF THE LIMESTONE BEDROCK AND THE BOTTOM AND SIDES OF THE STORMWATER BASIN. EXCAVATION AND BACKFILL OF SUITABLE MATERIAL MAY BE MADE TO MEET THIS CRITERIA.

**SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL**  
 N.T.S.

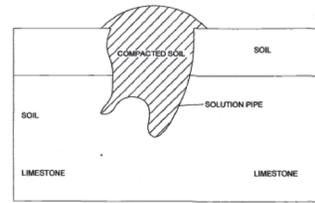
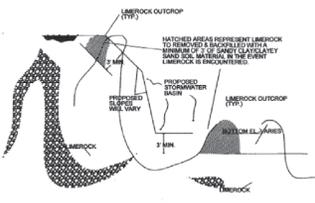


FIGURE 8

**RECOMMENDED REPAIR FOR SMALL SOLUTION PIPE SINKHOLES**  
 N.T.S.



SECTION VIEW

**LIMEROCK OUTCROP REMOVAL DETAIL**  
 N.T.S.

**SOLUTION PIPE REPAIR:**  
 IF A SOLUTION PIPE SINKHOLE DOES FORM IN A STORM WATER BASIN, IT SHOULD BE REPAIRED QUICKLY AND IN A MANNER THAT WILL ENSURE THAT THE FLORIDIAN AQUIFER WILL BE PROTECTED FROM CONTAMINATION AND ALSO BE DONE IN A MANNER THAT PRECLUDES ANY FURTHER SUBSIDENCE OR UNPLUGGING OF THE SOLUTION PIPE.  
 THERE ARE MANY WAYS IN WHICH A SOLUTION PIPE SINKHOLE MAY BE ADEQUATELY REPAIRED. THE REPAIR WILL VARY DEPENDING ON THE MORPHOLOGY OF THE SINKHOLE. BEFORE REPAIR, ANY TRASH AND ORGANIC DEBRIS SHOULD BE REMOVED FROM THE SINKHOLE. TWO RECOMMENDED REPAIR METHODS ARE LISTED BELOW.

**REPAIR METHOD 1 (FIGURE 8)**  
 IF THE COLLAPSE OCCURS IN A SHALLOW BASIN (<4' DEEP) AND THE VOIDS IN THE LIMESTONE ARE SMALL, THEN THE SINKHOLE CAN BE REPAIRED BY BACKFILLING WITH MATERIAL THAT IS SIMILAR TO THE MATERIAL IN WHICH THE BASIN WAS CONSTRUCTED. A LOWER PERMEABILITY MATERIAL, SUCH AS CLAYEY SAND OR CLAY IS RECOMMENDED. THE MATERIAL SHOULD THEN BE COMPACTED AND THE SINKHOLE REPAIR SHOULD BRING THE SURFACE BACK TO AN ELEVATION WHICH IS SLIGHTLY ABOVE THE ORIGINAL BOTTOM, CREATING A SMALL MOUND.  
 THIS REPAIR METHOD WILL NOT ASSURE THAT FUTURE SUBSIDENCE WILL BE PREVENTED. THE SINKHOLE MAY NEED TO BE REPAIRED AGAIN AT A LATER TIME IF A SINKHOLE HAS BEEN REPAIRED USING METHOD #1, AND CONTINUES TO SUBSIDSE, IT MUST BE REPAIRED USING METHOD #2.

**REPAIR METHOD 2 (FIGURE 9)**  
 IF THE COLLAPSE OCCURS IN A DEEPER BASIN (>4' DEEP), A BASIN WITH LARGE VOIDS, OR IN A BASIN THAT IS RECEIVING STORMWATER WHICH CONTAINS A HIGHER LEVEL OF CONTAMINATION, THEN THE REPAIR SHOULD BE MORE PERMANENT. THE COLLAPSE SHOULD BE EXCAVATED TO LIMESTONE BEDROCK. THE VOIDS IN THE BEDROCK SHOULD BE PLUGGED WITH CLEAN CONCRETE GROUT (CLEAN LIMESTONE AGGREGATE - 1/3 TO 1/2 THE SIZE OF THE VOID DIAMETER MAY BE INCLUDED IN THE GROUT). MATERIAL CONSISTENT WITH THE BASIN BOTTOM ELEVATION BROUGHT BACK TO NORMAL.  
 THE DISTRICT SHOULD BE NOTIFIED TO ANY SINKHOLE DEVELOPMENT WITHIN 48 HOURS OF DISCOVERY AND THE PROPOSED METHOD BY WHICH THE SINKHOLE WILL BE REPAIRED SHOULD BE SUBMITTED TO THE DISTRICT FOR APPROVAL WITHIN 30 DAYS OF FINDING A SOLUTION PIPE SINKHOLE WITHIN A STORMWATER BASIN. THE DISTRICT WILL THEN NOTIFY THE RESPONSIBLE PARTY AS TO THE ACCEPTANCE, DENIAL OR NEED FOR MODIFICATION OF THE REPAIR METHOD.

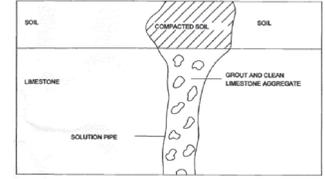


FIGURE 9

**RECOMMEND REPAIR FOR LARGER SOLUTION PIPE SINKHOLES**  
 N.T.S.

**BASIN LIMEROCK OUTCROP CONSTRUCTION NOTES**

1. IN THE EVENT THAT LIMEROCK OUTCROP IS ENCOUNTERED DURING CONSTRUCTION OF THE RETENTION BASINS THE FOLLOWING TREATMENT SHALL BE PERFORMED. THE LIMEROCK OUTCROP SHALL BE EXCAVATED TO AN ELEVATION OF THREE (3) FEET BELOW THE DESIGN BASIN BOTTOM. THE EXCAVATED AREA SHALL BE BACKFILLED TO THE DESIGN BASIN BOTTOM ELEVATION WITH CLAYEY SAND/SANDY CLAY (ASHTO SOIL GROUP-AZ) SOILS. A MIXTURE OF THE BACKFILL MATERIAL SHALL BE PLACED IN SIX INCH LIFTS AND ROLLED WITH HEAVY LOADED RUBBER Tired EQUIPMENT. THE APPLICABLE WATER MANAGEMENT DISTRICT AND APPLICABLE COUNTY PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED WHEN LIMEROCK OUTCROPS ARE ENCOUNTERED AND PRIOR TO COMMENCING REMEDIAL ACTION.

2. IN THE EVENT THAT ANY KARST FEATURES, SUCH AS SOLUTION CAVITIES, CHIMNEYS, OR SINKHOLES APPEAR IN THE RETENTION BASIN, THE FOLLOWING ACTIONS SHALL BE REQUIRED:

A. THE ENGINEER OF RECORD, THE ST. JOHN RIVER WATER MANAGEMENT DISTRICT, AND THE MARION COUNTY PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED WHEN THE FEATURE IS ENCOUNTERED PRIOR TO REMEDIAL ACTION.

B. A LICENSED GEOTECHNICAL ENGINEERING FIRM SHALL BE RETAINED TO EVALUATE THE SIGNIFICANCE OF THE FEATURE AND TO DETERMINE THE REMEDIAL ACTION NECESSARY.

C. THE GEOTECHNICAL ENGINEERING FIRM SHALL BE REQUIRED TO MONITOR THE REMEDIAL WORK AND SEND A SUMMARY REPORT UPON REPAIR COMPLETION TO THE ENGINEER OF RECORD, THE ST. JOHN RIVER WATER MANAGEMENT DISTRICT, AND THE MARION COUNTY PUBLIC WORKS DEPARTMENT.

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636  
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**PALMETTO CAPITAL GROUP**  
 1643 WILLIAMSBURG SQUARE  
 LAKELAND, FL 33803  
 PHONE: (863) 808-1520



COMMONMARK ENGINEERING  
 400 EQUUSWATER DRIVE  
 ORLANDO, FL 32804  
 (407) 941-9818  
 AUTHORIZATION: 18444

BSRO FIRESTONE  
 MAJOR SITE PLAN  
 STORE #18D  
 NWC OF SW 9TH ST  
 &  
 SW 6th AVE  
 Ocala, FL 33476  
 MARION COUNTY

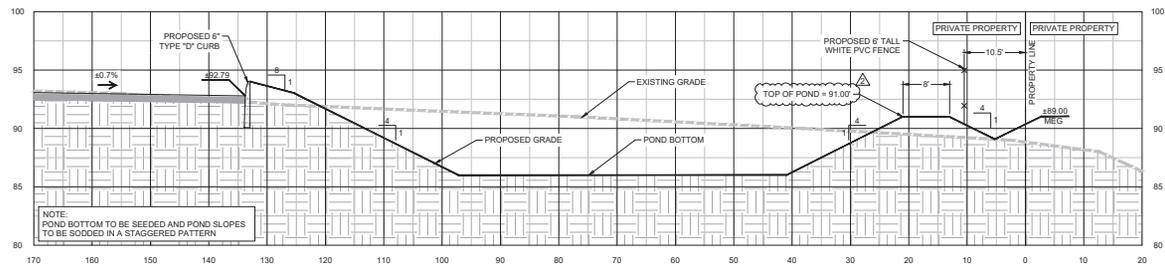
DATE	REVISION/ISSUE	COMMENTS
11/01/2025	1	ISSUED FOR CONSTRUCTION

PROJECT # 224.059  
 DATE 04/04/2025  
 SCALE N.T.S.  
 SHEET 11  
 TOTAL SHEETS 11  
**C9.2**

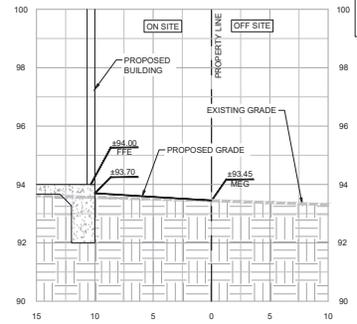
KARST

POND 1 STAGING TABLE	
100 YEAR / 24 HR	90.02'
WQTV	86.4'
POND BOTTOM	86.00'
SHWE	82.00'
BASE OF AQUIFER	70.00'

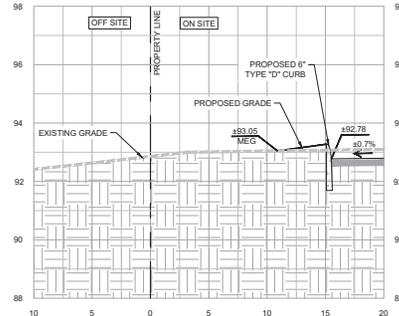
LEGEND		
	EXISTING EARTH	
	CONCRETE	
	ASPHALT PAVEMENT	



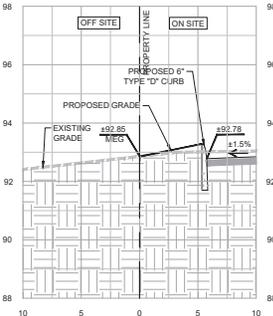
**PROFILE A-A (DRIVEWAY AND POND 1)**  
SCALE: 1" IS 5' (VERTICAL) 1" IS 10' (HORIZONTAL)  
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



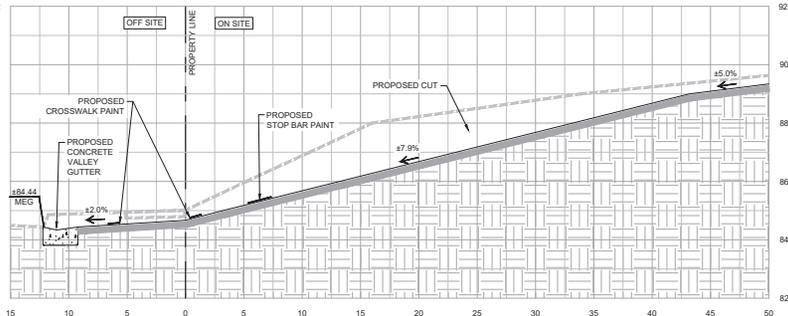
**PROFILE B-B (WEST PROPERTY LINE)**  
SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)  
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



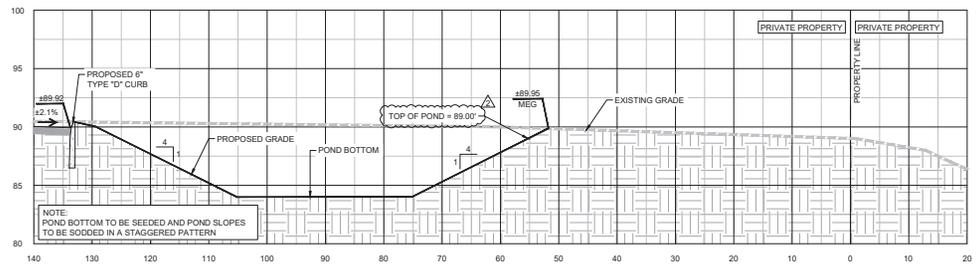
**PROFILE C-C (SOUTH PROPERTY LINE)**  
SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)  
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



**PROFILE D-D (EAST PROPERTY LINE)**  
SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)  
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



**PROFILE E-E (SOUTH ACCESS RD DRIVEWAY CONNECTION TO SW 57TH AVE)**  
SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)  
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



**PROFILE F-F (POND 2)**  
SCALE: 1" IS 5' (VERTICAL) 1" IS 10' (HORIZONTAL)  
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM

POND 2 STAGING TABLE	
100 YEAR / 24 HR	85.50'
WQTV	84.35'
POND BOTTOM	84.00'
SHWE	81.50'
BASE OF AQUIFER	75.00'

**PALMETTO CAPITAL GROUP**  
1643 WILLIAMSBOURG SQUARE  
LAKELAND, FL 33803  
PHONE: (863) 806-1520



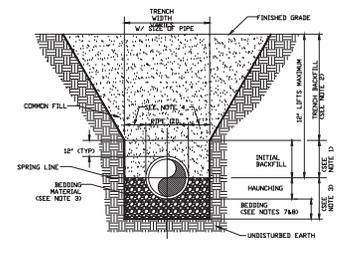
**COMMON OAK ENGINEERING**  
400 EIGHTH WATER DRIVE  
ORLANDO, FL 32804  
(407) 961-8818  
AUTHORIZATION: 38844

**BSRO FIRESTONE**  
MAJOR SITE PLAN  
STORE FRID  
STORE OF SW 49TH ST  
&  
SW 64th AVE  
OCALA, FL 33476  
MARION COUNTY

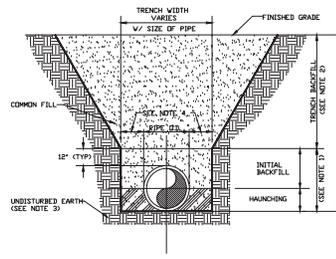
DATE	REVISION/ISSUE	BY	CHK	APP	COMMENTS
04/04/2025	1	JR	JR		ISSUED FOR PERMIT SUBMITTAL
	2				
	3				

PROJECT # **224.059**  
DATE **04/04/2025**  
SCALE **N.T.S.**  
SHEET **C9.3**  
PROFILES

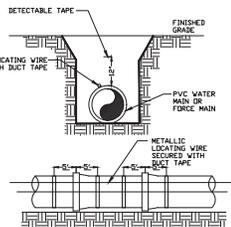
Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636  
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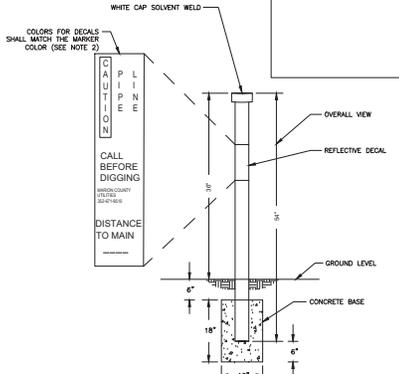
- NOTES:**
- INITIAL BACKFILL, COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
  - TRENCH BACKFILL, COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
  - BEDDING MATERIAL SHALL CONFORM TO FOOTING 33 AGGREGATE.
  - MAX. 12" MIN. FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. 12" MIN. FOR PIPE DIAMETER 24" AND LARGER.
  - PIPE UTILITIES SHALL BE INSTALLED IN THE TRENCH BURNING CONSTRUCTION.
  - BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 12" AND LARGER.
  - PIPE UTILITIES SHALL BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW AND TRENCHING 1 DETAILS MAY BE REQUIRED AS DIRECTED BY M.C.
  - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH BEDDING AND TRENCHING 1 DETAILS MAY BE REQUIRED AS DIRECTED BY M.C.
  - MAX. 12" MIN. FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. 12" MIN. FOR PIPE DIAMETER 24" AND LARGER.
  - WATER MAINS SHALL NOT BE INSTALLED IN THE TRENCH BURNING CONSTRUCTION.
  - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
  - FINAL REVISION IN APPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTRICTION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
  - ONE COMPACTION TEST SHALL BE REQUIRED FOR EACH LIFT NOT TO EXCEED 200'.



- NOTES:**
- INITIAL BACKFILL AND HAUNCHING SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
  - TRENCH BACKFILL, COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
  - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH BEDDING AND TRENCHING 1 DETAILS MAY BE REQUIRED AS DIRECTED BY M.C.
  - MAX. 12" MIN. FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. 12" MIN. FOR PIPE DIAMETER 24" AND LARGER.
  - WATER MAINS SHALL NOT BE INSTALLED IN THE TRENCH BURNING CONSTRUCTION.
  - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
  - FINAL REVISION IN APPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTRICTION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
  - ONE COMPACTION TEST SHALL BE REQUIRED FOR EACH LIFT NOT TO EXCEED 200'.



- NOTES:**
- PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED ON TOP OF THE PIPE.
  - LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION PER UT 110.
  - ALL WIRE CONNECTIONS SHALL BE SPliced TOGETHER USING WATERTIGHT WIRE NUTS.
  - FOR HORIZONTAL DIRECTIONAL DRILLING, UTILIZE 2 LOCATING WIRES EACH WITH A BREAK LOAD OF 550# FORCE.
  - DETECTABLE TAPE SHALL BE 1" ABOVE THE CENTERLINE OF THE PIPE.



- NOTES:**
- MARKERS ARE REQUIRED WHEN UTILITY MAIN IS LOCATED OVER 30 FEET FROM EDGE OF PAVEMENT OR IN AN EXISTING MET ADJACENT TO THE RIGHT-OF-WAY.
  - MARKERS SHALL BE 4" DIAMETER SCHED 40 DRIP PVD BLUE FOR WATER, GREEN FOR WASTEWATER AND PAINTING PURPLE CROSS FOR RECLAIMED WATER.
  - MARKERS SHALL BE PLACED AT ALL VALVES THAT MEET NOTE 1 EXCEPT WATER VALVES NEAR FIRE HYDRANTS.
  - ADDITIONAL MARKERS SHALL BE INSTALLED AS NEEDED SO THAT THE DISTANCE BETWEEN MARKERS DOES NOT EXCEED 100 FEET.

MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # 2  
**BEDDING AND TRENCHING 1**  
 UT 102

MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # 2  
**BEDDING AND TRENCHING 2**  
 UT 103

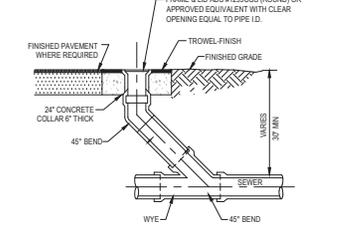
MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # 2  
**PIPE LOCATING WIRE AND DETECTABLE TAPE**  
 UT 104

MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # 2  
**UTILITY MAIN MARKER**  
 UT 109

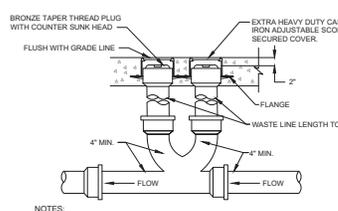
**PALMETTO CAPITAL GROUP**  
 1643 WILLIAMSBURG SQUARE  
 LAKELAND, FL 33803  
 PHONE: (863) 806-1520

**COMMON MARK**  
 COMMON MARK ENGINEERING  
 4000 EQUINEWATER DRIVE  
 ORLANDO, FL 32804  
 (407) 961-8616  
 AUTHORIZATION: 28444

**BS&CO FIRESTONE**  
 AT  
 STORE #1818  
 N.W. COR. SW 95TH  
 SW 97TH AVE  
 Ocala, FL 32476  
 MARION COUNTY

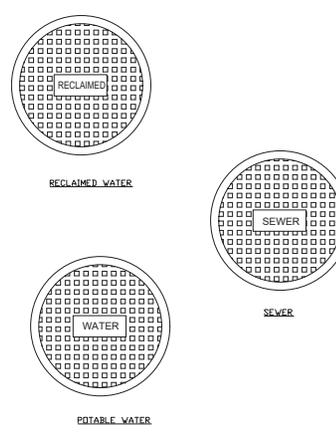


**1 SANITARY SEWER CLEANOUTS**

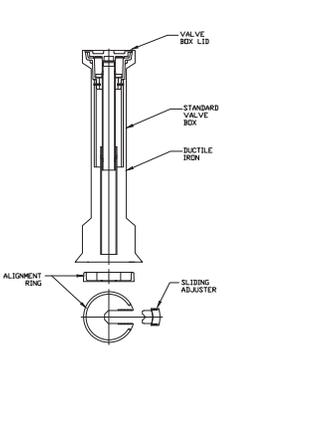


- NOTES:**
- CLEAN-OUT SHALL BE TRAFFIC RATED.
  - ECO-1 SHALL BE INSTALLED WITHIN 5'-0" OF THE BUILDING EXTERIOR.

**2 2-WAY CLEANOUT NTS**

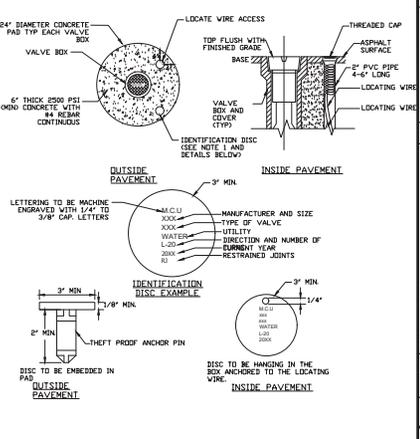


MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # NA  
**TYPICAL VALVE BOX COVER**  
 UT 110



- NOTES:**
- FOR ALL MAINS 6" DEEP OR GREATER, PVC PIPE EXTENSIONS SHALL BE USED ON VALVE BOX INSTALLATION.

MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # 1  
**SEALED VALVE BOX, ADJUSTABLE**  
 UT 111

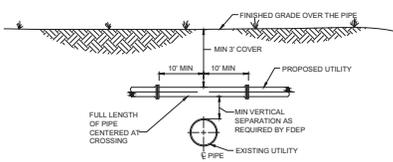


- NOTES:**
- BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
  - LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.

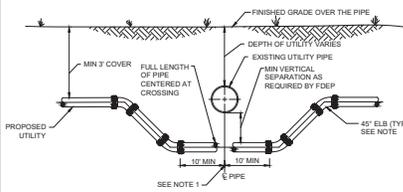
MARION COUNTY ENGINEERING  
 MCEC EFFECTIVE 04/13/2023  
 REVISION # 1  
**VALVE BOX PAD**  
 UT 112

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636  
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 SCALE: N.T.S.  
 DATE: 09/25/2024  
 PROJECT # 224.059  
 SHEET C10  
 UTILITY DETAILS



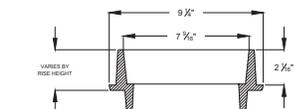


**CONDITION 1 (SUFFICIENT COVER AND SEPARATION AVAILABLE)**

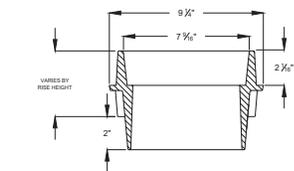


**CONDITION 2 (SUFFICIENT SEPARATION AVAILABLE, SUFFICIENT COVER NOT AVAILABLE)**

- NOTES:**  
 1. PIPING SHALL BE DUCTILE IRON WHEN CROSSING UNDER SANITARY SEWER OR STORMWATER UTILITIES.  
 2. IF NOT DIP, CONCRETE AND CASING PER FDEP.

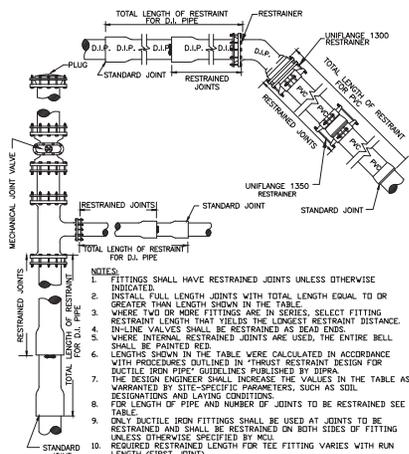


FOR RISERS 1" TO 2 1/2"

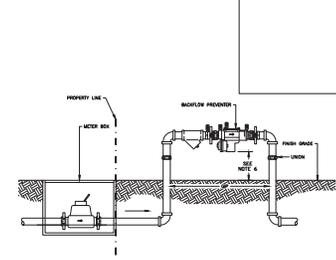


FOR RISERS 3" TO 6"

**NOTES:** 1. MUST BE SOLID CAST IRON CONSTRUCTION.



- NOTES:**  
 1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.  
 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.  
 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.  
 4. IN-LINE VALVES SHALL BE RESTRAINED AS DEAD ENDS.  
 5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.  
 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN THURST RESTRAINT DESIGN FOR DUCTILE IRON PIPE GUIDELINES PUBLISHED BY SPIRA.  
 7. THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.  
 8. FOR LENGTH OF PIPE AND NUMBER OF JOINTS TO BE RESTRAINED SEE TABLE.  
 9. ONLY DUCTILE IRON FITTINGS SHALL BE USED AT JOINTS TO BE RESTRAINED AND SHALL BE RESTRAINED ON BOTH SIDES OF FITTING UNLESS OTHERWISE SPECIFIED BY NCL.  
 10. REQUIRED RESTRAINT LENGTH FOR TEE FITTING VARIES WITH RUN LENGTH (FIRST JOINT).



- NOTES:**  
 1. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AND MAINTAINED AS PER MICHIGAN COUNTY CROSS CONNECTION CONTROL ORDINANCE AND/OR PLUMBING CODE.  
 2. BACKFLOW PREVENTER SHALL BE INSTALLED LEVEL AND FIRM.  
 3. MINIMUM CLEARANCE OF 24" TO BE MAINTAINED ABOVE ASSEMBLY FOR TESTING.  
 4. ASSEMBLY MUST BE LISTED WITH THE UNIVERSITY OF MICHIGAN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.  
 5. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE TESTED FOLLOWING INSTALLATION AND INITIATOR OF WATER SERVICE THE BACKFLOW PREVENTION ASSEMBLY TEST SHALL PRESENT A CURRENT AMERICAN WATER WORKS ASSOCIATION (AWWA) AND/OR AMERICAN BACKFLOW PREVENTION ASSOCIATION (ABPA) BACKFLOW TESTER CERTIFICATE A COPY OF THE BACKFLOW PREVENTION ASSEMBLY TEST REPORT MUST BE SUBMITTED TO THE BACKFLOW & CCC COORDINATOR AT NCL WITHIN 14 DAYS FROM THE DATE OF INSTALLATION.  
 6. MIN. 12" MIN. ABOVE FINISHED GRADE AND FLOOD-LEVEL.  
 7. METERS LARGER THAN 1" VALVE, REQUIRE DISCUSSION WITH NCL.

**UTILITY CONFLICT**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # NA  
 UT 113

**VALVE BOX RISER**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # NA  
 UT 115

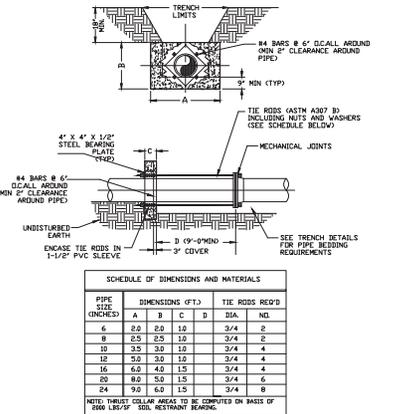
**RESTRAINED PIPE TABLE**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # NA  
 UT 116 A

**2" AND SMALLER REDUCED PRESSURE AND/OR DOUBLE CHECK BACKFLOW ASSEMBLY**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # 1  
 UT 209

**PALMETTO CAPITAL GROUP**  
 1643 WILLIAMSBURG SQUARE  
 LAKELAND, FL 33803  
 PHONE: (863) 806-1520

**COMMON MARK ENGINEERING**

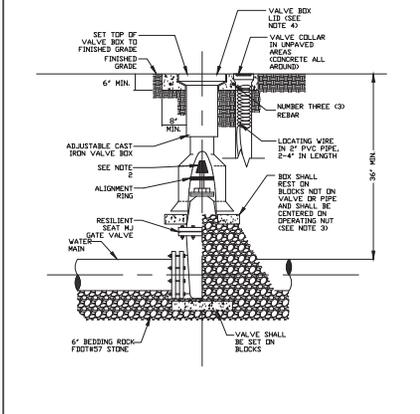
COMMON MARK ENGINEERING  
 4005 EIGHTH AVENUE  
 ORLANDO, FL 32804  
 (407) 861-8616  
 AUTHORIZED SIGNATURE AUTHORIZOR: 28844



**SCHEDULE OF DIMENSIONS AND MATERIALS**

PIPE SIZE (INCHES)	DIMENSIONS (FT.)				SIA.	NCL
	A	B	C	D		
6	2.0	6.0	1.0	3/4	4	
8	2.5	6.5	1.0	3/4	2	
10	3.0	7.0	1.0	3/4	4	
12	3.0	7.0	1.0	3/4	4	
16	4.0	8.0	1.5	3/4	4	
20	5.0	9.0	1.5	3/4	6	
24	6.0	10.0	1.5	3/4	8	

- NOTES:**  
 1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.  
 2. MINIMUM COMpressive STRENGTH FOR CONCRETE SHALL BE 3000 PSI.  
 3. REINFORCING BARS AND CONNECTION SHALL BE AS SPECIFIED ELSEWHERE IN THE LAND DEVELOPMENT CODE.  
 4. ALL FORM BONDING SHALL BE REMOVED PRIOR TO BACKFILL.  
 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THRUST COLLAR.  
 6. DESIGN PRESSURE: 150 PSI.



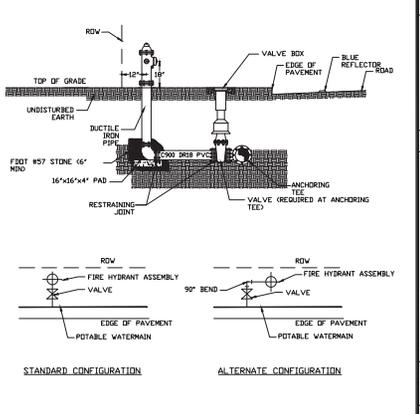
- NOTES:**  
 1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION (SEE UTILITY).  
 2. THE ACTUATING NUT FOR VALVES DEEPER THAN SIX (6) FEET SHALL BE EXTENDED TO COME UP TO 3 FOOT DEPTH BELOW FINISHED GRADE.  
 3. VALVE BOX SHALL BE SET ON FIVE (5) SOLID COMMON BLOCKS.  
 4. VALVE BOX LID TO BE LETTERED WITH THE WORD "WATER" OR "RECLAIMED".  
 5. INSTALL BRASS ID TAG IN CONCRETE.

**MINIMUM RESTRAINED LENGTH (FT) - EACH SIDE OF FITTING AND VALVE**  
 FOR DI, PE ENCASED DIP OR BARE PVC VD=VERTICAL-UP  
 WATER MAIN: PRESSURE: 150 PSI. DEPTH OF COVER: 3.0

Band Type	Pipe Length (ft)						Pipe Length (ft)					
	4"	6"	8"	10"	12"	16"	4"	6"	8"	10"	12"	16"
11-1/4"	2	3	4	5	6	8	2	3	4	5	6	8
12"	3	4	5	6	7	9	3	4	5	6	7	9
14"	4	5	6	7	8	10	4	5	6	7	8	10
16"	5	6	7	8	9	11	5	6	7	8	9	11
18"	6	7	8	9	10	12	6	7	8	9	10	12
20"	7	8	9	10	11	13	7	8	9	10	11	13
24"	9	10	11	12	13	15	9	10	11	12	13	15

**MINIMUM DESIGN CRITERIA**  
 Bedding Type: 4  
 Safety Factor: 1.5  
 Soil: Sand-Silt  
 Run Length (First Joint): 10 ft.

Band Type	Pipe Length (ft)						Pipe Length (ft)					
	4"	6"	8"	10"	12"	16"	4"	6"	8"	10"	12"	16"
11-1/4"	2	3	4	5	6	8	2	3	4	5	6	8
12"	3	4	5	6	7	9	3	4	5	6	7	9
14"	4	5	6	7	8	10	4	5	6	7	8	10
16"	5	6	7	8	9	11	5	6	7	8	9	11
18"	6	7	8	9	10	12	6	7	8	9	10	12
20"	7	8	9	10	11	13	7	8	9	10	11	13
24"	9	10	11	12	13	15	9	10	11	12	13	15



- NOTES:**  
 1. BONNET COLORS SHALL BE IN ACCORDANCE WITH CODE 6182-G.  
 2. HYDRANT SHALL BE T INCE OF RIGHT-OF-WAY WHEN POSSIBLE.  
 3. BLUE REFLECTOR SHALL BE PLACED IN THE MIDDLE OF THE ADJACENT TRAVEL LANE.  
 4. RADIUS OF CLEAR SPACE AROUND THE FIRE HYDRANT SHALL BE IN ACCORDANCE WITH NFPA STANDARDS OF PFA 1. SEC. 185.5, AS AMENDED.

**BSRO FIRESTONE**  
 AT  
 STORE FIBER

ENGINEER'S NAME & P.E. LICENSE NO. 71636

DATE: 09/25/2024  
 SCALE: N.T.S.  
 SHEET: 224.059  
 PROJECT #

**THRUST COLLAR WATER MAINS**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # NA  
 UT 201

**GATE VALVE WATER AND RECLAIMED MAINS**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # 2  
 UT 204

**RESTRAINED PIPE TABLE**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # NA  
 UT 116 B

**FIRE HYDRANT ASSEMBLY**  
 MCHC EFFECTIVE 04/13/2023  
 REVISION # 2  
 UT 210

DATE: 09/25/2024  
 SCALE: N.T.S.  
 SHEET: 224.059  
 PROJECT #

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636  
 This item has been digitally signed and sealed by Jeremy R. Anderson, P.E. on the date indicated here.  
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UTILITY DETAILS