



MIDFLORIDA CREDIT UNION
13550 SOUTH TAMiami TRAIL
FORT MYERS, FLORIDA 33912

FOR
MIDFLORIDA CREDIT UNION
129 SOUTH KENTUCKY AVENUE
SUITE 600
LAKELAND, FLORIDA 33801

LEGAL DESCRIPTION

A TRACT OF PARCEL OF LAND SITUATED IN THE STATE OF FLORIDA, COUNTY OF LEE, BEING A PART OF THE SOUTHEAST ONE QUARTER (SE 1/4) OF SECTION 23, TOWNSHIP 45 SOUTH, RANGE 24 EAST, AND FURTHER BOUNDED AND DESCRIBED AS FOLLOWS:

PARCEL 1:

STARTING AT THE NORTHEAST CORNER OF SAID SOUTHEAST ONE QUARTER (SE 1/4) THENCE S 89°08'26" W ALONG THE CENTERLINE OF CYPRESS LAKE DRIVE FOR 132.00 FEET; THENCE S 01°16'00" E ALONG THE WESTERLY RIGHT-OF-WAY LINE OF US 41 (TAMiami TRAIL - SR 45) FOR 116.00 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CYPRESS LAKE DRIVE AND THE POINT OF BEGINNING; THENCE CONTINUE S 01°16'00" E ALONG SAID WESTERLY LINE FOR 220.00 FEET; THENCE S 89°08'26" W FOR 266.56 FEET; THENCE N 00°51'34" W FOR 219.99 FEET TO SAID SOUTHERLY RIGHT-OF-WAY LINE; THENCE N 89°08'26" E ALONG SAID SOUTHERLY LINE FOR 265.00 FEET TO THE POINT OF BEGINNING.

INCLUDING ALL OF GRANTOR'S INTEREST, IF ANY, IN THE FOLLOWING:

PARCEL 2:

TOGETHER WITH ALL APPURTENANT EASEMENTS CREATED BY THAT CERTAIN DECLARATION OF COVENANTS, RESTRICTIONS AND EASEMENT ENTERED INTO BY CYPRESS LAKE ASSOCIATES, A FLORIDA GENERAL PARTNERSHIP, AS DECLARANT, AND FILED FOR RECORD IN O.R. BOOK 1848, PAGE, 2699, PUBLIC RECORDS OF LEE COUNTY, FLORIDA; AND

PARCEL 3:

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND PARKING, RECORDED IN O.R. BOOK 1937, PAGE 3356, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

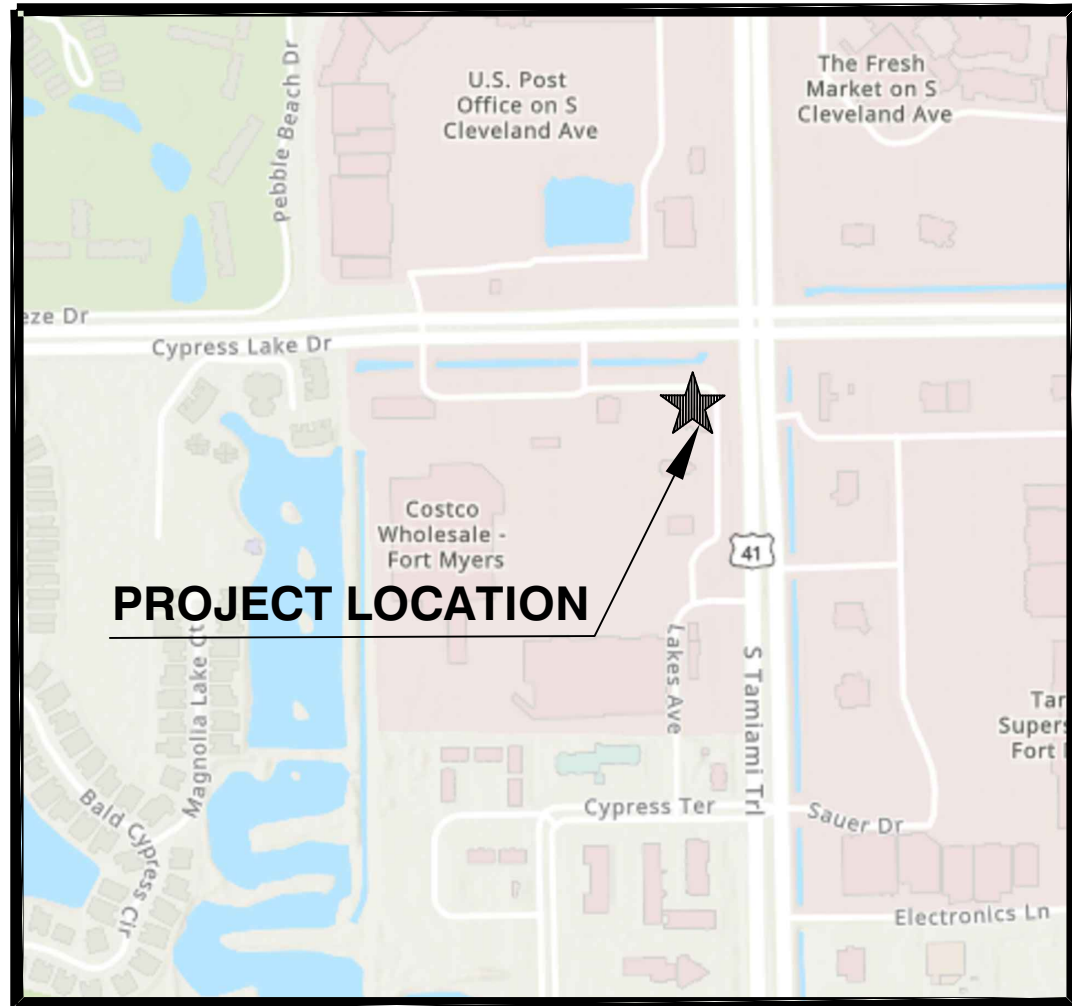
PARCEL 4:

TOGETHER WITH EASEMENTS FOR INGRESS AND EGRESS AS CONTAINED IN DOCUMENT RECORDED IN O.R. BOOK 1851, PAGE 1794, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

INDEX OF SHEETS

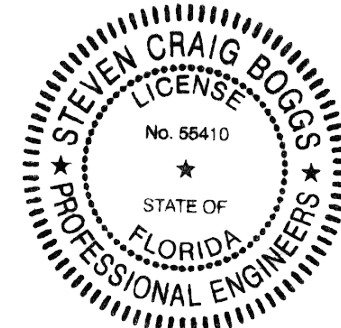
Sheet Number	Sheet Title
1.0	COVER SHEET
2.0	GENERAL NOTES
4.0	SURFACE WATER MANAGEMENT PLAN
4.1	SURFACE WATER MANAGEMENT NOTES
5.0	EXISTING CONDITION
6.0	SITE PLAN
7.0	PAVING GRADING & DRAINAGE PLAN
8.0	UTILITY PLAN
9.0	WATER & SEWER DETAILS
9.1	PAVING GRADING & DRAINAGE DETAILS
9.2	CONSTRUCTION DETAILS
10.0	BASIN PLANS

LOCATION MAP



SEC. 23, T 45 S, R 24 E

STRAP# 23-45-24-00-00002.0050



Digitally signed by Steven C Boggs
DN: cn=Steven C Boggs, o=US, ou=BBE-Boggs Engineering LLC, email=sboggs@boggseng.com
Date: 2024.02.09 13:48:15 -05'00'

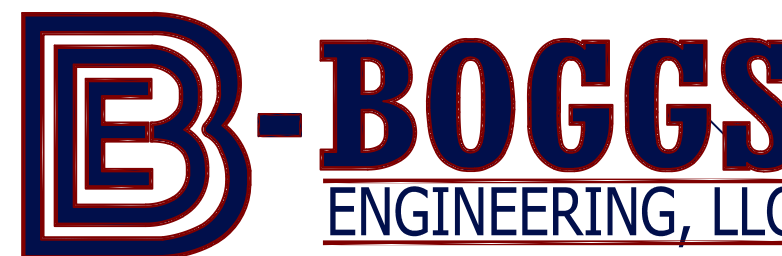
CIVIL ENGINEER:

BBE - BOGGS ENGINEERING, LLC
607 SOUTH ALEXANDER STREET-STE 101
PLANT CITY, FL 33563
P: 813-747-9100
F: 813-754-2967
EMAIL - sboggs@boggseng.com

SURVEYOR:

KP SURVEYING, INC.
LB 8152
2802 WEST CYPRESS AVENUE
FORT MYERS, FL 33905
P: 239-462-1901

PLANS PREPARED BY:



607 S. Alexander Street, Suite 101
Plant City, FL 33563
Phone: 813-747-9100
www.boggseng.com
info@boggseng.com
COA-25867

STEVEN C. BOGGS
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE No. 85410

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY STEVEN C. BOGGS, P.E. ON 2/9/2024 USING SHA-1 AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

NO.	DATE	REVISION DESCRIPTION



KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

It's fast. It's free. It's the law.

www.callsunshine.com

BBE PROJECT #19250

LEE COUNTY UTILITY STANDARD PLAN NOTES

1. A VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND WATER MAINS. IF CLEARANCE CANNOT BE ACHIEVED BY ADJUSTING WATER MAINS THE SANITARY SEWER SHALL BE CONSTRUCTED PER SANITARY NOTE NO. 1 BELOW.
2. A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER.
3. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
4. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
5. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
6. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6 A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED, STANDARD THICKNESS, AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A (AWWA C 104-71).
7. ALL FITTINGS LARGER THAN 2" SHALL BE DUCTILE IRON CLASS 53 IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 PSI. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104.
8. CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.
9. THRUST BLOCKING AND/OR RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS. SEE DETAIL SHEET FOR RESTRAINT SCHEDULE.
10. ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-800. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 14 IN ACCORDANCE WITH ASTM D-2241.
11. ALL FITTINGS 2" AND SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED SLEEVE TYPE JOINTS.
12. ALL WATER MAINS AND WATER SERVICES TO BE INSTALLED UNDER ROAD UNDERDRAIN SHALL MAINTAIN 18" SEPARATION.
13. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE LINES, EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY DEPARTMENT OF PUBLIC UTILITIES.
14. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT AND AWWA SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND ENGINEERING DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
15. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING REQUIRED TO OBTAIN CLEARANCE OF DOMESTIC WATER FROM LOCAL REGULATORY AGENCIES. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO ENGINEER.

3. PER FAC 62-604.400 (2)(G)) AND FAC 62-604.400(3)
 - a. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX INCHES BETWEEN THE MAINS AND THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C.
 - b. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWER SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
 - c. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID SO THE OUTSIDE OF THE WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - d. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER, OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
4. AT THE UTILITY CROSSING DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWER, STORMWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER, OR STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
5. ALL ON SITE AND OFF SITE SANITARY SEWER MAINLINE SHALL BE CONSTRUCTED OF SDR26 PVC. ALL SANITARY SEWER LATERALS WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED OF SDR26 PVC. ON SITE SEWER LATERALS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE PLUMBING CODES.
6. ALL SANITARY SEWER MAINLINES WILL NEED TO BE SDR26 PVC (GREEN), INSTALLED BY A LICENSED UNDERGROUND UTILITY CONTRACTOR AND INSPECTED BY THE JURISDICTIONAL ENGINEERING DEPARTMENT. THE LINE WILL NEED TO BE LAMPED, COLOR TELEVIEWED, AND PASS A 5 % MANDREL TEST UNDER CITY INSPECTION AND RECORDING STANDARDS. THE CONTRACTOR MUST BE MADE AWARE THAT THE JURISDICTIONAL AGENCY DOES NOT PERMIT ANY INFILTRATION IN A NEW LINE AND THAT ZERO SAGGING IS STANDARD WITH MAXIMUM TOLERANCE OF 0.5 INCHES. THE TELEVISION CAMERA MUST BE EQUIPPED WITH A GAUGE TO MEASURE THE DEPTH OF ANY STANDING WATER.
7. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
8. ALL P.V.C. ON SITE AND OFF SITE MAINLINE SEWER SERVICE LATERAL WITHIN THE RIGHT OF WAY SHALL BE IDENTIFICATION OF SDR PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF A.P.S.M. SPECIFICATION DESIGNATION D2321. ALL ON SITE SANITARY SEWER LATERAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLUMBING CODE. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR.
9. ALL PVC FORCE MAINS WITHIN PUBLIC R/W SHALL BE CLASS 200, SDR 21, WITH MECHANICAL JOINTS, AND SHALL BE BROWN IN COLOR OR GREEN WRAPPED WITH BROWN TAPE IN ONE FOOT INTERVALS. ALL PVC FORCE MAINS NEED TO BE WRAPPED WITH DUAL #12 TRACER WIRES.
10. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C 151), H.C. PIPE SHALL RECEIVE INTERIOR AND EXTERIOR
11. BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8, OR A 21.51.

1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.
2. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE SOILS TESTING REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER OR THE SOILS TESTING COMPANY. THE SOILS TESTING COMPANY'S SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.
3. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION DISTURBED AREA. ALL SEED, MULCH, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
4. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. SILT FENCE SHALL BE INSTALLED ALONG THE STOCKPILE PERIMETER FOR EROSION CONTROL.
5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
6. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.
7. CONTRACTOR TO OBTAIN SITE CLEARING & TREE REMOVAL PERMIT PRIOR TO INSTALLATION OF ANY UNDERGROUND UTILITIES AND CLEARING THE SITE.
8. PROTECTION OF EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESSION.
9. ALL DISTURBED AREAS WHICH ARE NOT TO BE SODED ARE TO BE SEEDDED AND MULCHED TO FDOT STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, RESEEDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER.
10. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (STRAW BALE, TURBIDITY BARRIER OR STAKED SILT FENCE) TO PREVENT SILTATION OF ADJACENT PROPERTY, STRIPES, STORM SEWER, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GRASS AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO RECOVER SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
11. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.

1. CONTRACTOR TO REVIEW AND FOLLOW CONSTRUCTION TECHNIQUES OUTLINED IN THE SITE GEOTECHNICAL REPORT.

SAFETY NOTES

1. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH REGULATIONS. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL. LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.

2. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILIZATION OPERATIONS SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE, AND REMOVAL. ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKERS FROM HAZARDS WITHIN THE PROJECT LIMITS.

3. ALL TRAFFIC CONTROL MARKINGS, FLAGGERS, AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

4. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

1. STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS".
2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.
3. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS WHICH ARE INCLUDED IN LENGTHS.
4. ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
5. CONTRACTOR TO SOD THE DETENTION POND AS INDICATED ON PLANS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE POND.
6. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE COMPLETED STORMWATER MANAGEMENT SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.

1. CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY THE RESPECTIVE GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE RESPECTIVE GAS COMPANY TWO WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
2. ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST FOUR HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION, BY CALLING FLORIDA SUNSHINE STATE ONE CALL CENTER OF FLORIDA, INC. AT 1-800-432-4770. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" FORTY-EIGHT (48) HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE UTILITIES TO BE REMOVED OR DELISTED FROM ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:
 - GAS
 - TELEPHONE
 - CABLE
 - POWER
 - CITY/COUNTY WATER AND SEWER
 - CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY
 - (FIBER, HARDWARE TRAFFIC SIGNAL INTERCONNECT)

1. ALL WORK SHALL CONFORM TO LATEST VERSION OF THE LCU DESIGN MANUAL WHICH IS AVAILABLE ON OUR WEB-PAGE VIA THE FOLLOWING LINK: <https://www.leegeov.com/utilities/design-manual>
2. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH AS WELL.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU.
4. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS THAT MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
5. ALL CONSTRUCTION WORK PERFORMED MUST BE DONE BY A CONTRACTOR LICENSED IN THE STATE OF FLORIDA TO DO THE WORK INTENDED.
6. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. REQUIRED ATTENDEES INCLUDE BUT ARE NOT LIMITED TO: THE ENGINEER OF RECORD OR HIS DESIGNEE, THE UNDERGROUND CONTRACTOR AND THE LCU INSPECTOR ASSIGNED TO THE PROJECT. LCU IS TO BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
7. ONE COPY OF THE LCU APPROVED/STAMPED CONSTRUCTION PLANS, ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND TECHNICAL DOCUMENTS SUBMITTED MUST BE KEPT AT THE SITE AND MAINTAINED IN GOOD ORDER.
8. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
10. LCU INSPECTION STAFF IS TO BE PRESENT FOR ALL HOT TAPS, PRESSURE TESTS, LIFT STATION START-UPS AND FOR ANY NECESSARY INSPECTION. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO (2) WORKING DAYS NOTICE PRIOR TO SCHEDULING ANY OF THE ABOVE WITH THE EXCEPTION OF THE LIFT STATION START-UP WHICH REQUIRES ONE-WEEK NOTICE.
11. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND PER THE LATEST EDITION OF THE TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
12. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
13. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN AS CLOSE TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS.
14. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST TWO (2) WORKING DAYS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES, FDOT AND LCDOT PRIOR TO CONSTRUCTION.

1. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER OF RECORD.
17. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
18. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND LCU.
19. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
20. WITHIN THE FDOT AND LCDOT RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH FDOT SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.
21. ALL FRAMES, COVERS, VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE. UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION, ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS WILL BE ALLOWED.
22. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BALES) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH LEE COUNTY'S NPDES PERMIT.
23. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
24. LCU REQUIRES 30' OF COVER FOR ALL UNDERGROUND PIPING EXCEPT UNDER PAVEMENT, WHERE 36" OF COVER IS REQUIRED. IF LCU REQUIRED COVER CANNOT BE MAINTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHODS OF CONSTRUCTION OR PIPE PROTECTION, WHICH SHALL FIRST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY. IF STATE AGENCIES REQUIRE ADDITIONAL COVER, MEETING THE REQUIREMENTS SHALL BE DONE AT NO ADDITIONAL COST TO THE COUNTY.
25. LCU REQUIRES THERE TO BE A MINIMUM OF TEN (10) FEET HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN POTABLE WATER & SANITARY SEWER MAINS. LCU ALSO REQUIRES MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN OTHER PUBLIC AND/OR PRIVATE UTILITIES, STRUCTURE(S), BUILDING(S), WALL(S), FOUNTAIN(S), FENCE(S) AND LCU INFRASTRUCTURE UNLESS SPECIFICALLY APPROVED BY LCU.
26. LCU REQUIRES THERE TO BE A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND DRAINAGE INFRASTRUCTURE, MITERED END SECTIONS, INLETS, ETC. LCU ALSO REQUIRES MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND ALL NEW LIGHT POLE FOUNDATIONS.
27. THE ROOT BALL OF PALM TREES SHALL BE A MINIMUM OF FIVE (5) FEET AND THE ROOT BALL OF SHADE TREES SHALL BE A MINIMUM OF TEN (10) FEET FROM ANY EXISTING OR PROPOSED LCU OWNED AND MAINTAINED PIPE/INFRASTRUCTURE.
28. AS THE WORK PROGRESSES THE CONTRACTOR SHALL RECORD ALL CHANGES AND DEVIATIONS FROM THE LCU STAMPED/PROPOSED CONSTRUCTION PLANS. IN ADDITION, HE SHALL INDICATE THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT WITH COORDINATES WITH RESPECT TO THE NAVD 1988 STATE PLANE FLORIDA WEST COORDINATE SYSTEM AS WELL AS ALL REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL. THIS INFORMATION IS TO BE FORWARDED TO THE ENGINEER OF RECORD WHO PREPARED, SIGNED AND SEaled the APPROVED CONSTRUCTION PLANS SO THAT HE CAN PREPARE RECORD DRAWINGS PER THE REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL.

[illegible]

**MIDFLORIDA CREDIT UNION
13550 SOUTH TAMiami TRAIL
FORT MYERS, FLORIDA 33912**

STEVEN C. BOGGS
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 95410



DATE: 8/24/23
DESIGNED BY: PME
DRAWN BY: NB
CHECKED BY: SCB

PROJECT NO:	19250
DRAWING TITLE:	

GENERAL NOTES

SHEET NO:

2.0

SITE INFORMATION

PROJECT NAME:	MIDFLORIDA CREDIT UNION	TOTAL SITE AREA:	1.34 ACRES
PROJECT ADDRESS:	13550 SOUTH TAMiami TRAIL FORT MYERS, FLORIDA 33912	TOTAL DISTURBED AREA:	1.34 ACRES
OWNER'S ORGANIZATION:	MIDFLORIDA CREDIT UNION	LAND USE:	BANK WITH DRIVE-THRU
OWNER'S NAME:	VALUE	SOIL TYPE(S):	HALLANDALE AND BACA FINE SANDS
OWNER'S ADDRESS:	129 SOUTH KENTUCKY AVENUE SUITE 600 LAKELAND, FLORIDA 33801	2 YR/24 HR RAINFALL:	4.78 INCHES
OPERATION ENTITY:	CYPRESS LAKES SHOPPING CENTER, FLOR. ASSOCIATION		

SITE DESCRIPTION

THE PROPOSED DEVELOPMENT WILL CONSIST OF CONSTRUCTING A 2-STORY BANK WITH DRIVE-THRU FOR MIDFLORIDA CREDIT UNION IN FORT MYERS, FLORIDA. THE PROPOSED DEVELOPMENT ALSO INCLUDES INTERNAL ROADWAYS, PARKING LOTS, SIDEWALKS AND INFRASTRUCTURE UTILITIES.

THE SOIL-DISTURBING ACTIVITIES INVOLVED WITH THE PROPOSED DEVELOPMENT INCLUDE THE FOLLOWING:

- CONSTRUCTION OF EROSION AND SEDIMENT CONTROLS
- PAVING AND GRUBBING
- GRADING
- CONSTRUCT BUILDING
- CONSTRUCTION OF STORM SEWER, SANITARY SEWER SYSTEM, AND WATER DISTRIBUTION SYSTEM
- RECONSTRUCTION OF ROADS, PARKING AREAS, AND SIDEWALKS
- LANDSCAPING ACTIVITIES.

DISCHARGE INFORMATION

THIS PROJECT DISCHARGES TO THE CYPRESS LAKE CENTER MASTER STORMWATER MANAGEMENT SYSTEM.

POINT OF DISCHARGE	RECEIVING WATER BODY	IMPAIRED?	WBID	POLLUTANTS	LATITUDE	LONGITUDE	DRAINAGE AREA SIZE
POD 1	HENDRY CREEK	YES	3258B2	N/A	27	82	1.34

SEQUENCE OF MAJOR SOIL-DISTURBING ACTIVITIES

1. INSTALL ALL PERIMETER SILT FENCES PRIOR TO COMMENCING DEMOLITION/CONSTRUCTION
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES/EXITS AND SOIL TRACKING PREVENTION DEVICES
3. BEGIN SITE DEMOLITION, CLEARING, GRUBBING OPERATIONS, AND TOPSOIL STRIPPING
4. ESTABLISH A TOPSOIL STOCKPILE, INSTALL SILT FENCES AROUND STOCKPILE, AND COVER STOCKPILE
5. ANY DISTURBED AREAS IN WHICH CONSTRUCTION CEASES FOR 14 DAYS OR MORE SHALL BE STABILIZED WITH EROSION CONTROLS
6. CONSTRUCT STAGING AND MATERIALS STORAGE AREA
7. INSTALL TEMPORARY SANITARY FACILITIES AND DUMPSTERS
8. INSTALL UTILITIES INFRASTRUCTURE FOR STORMWATER, SANITARY SEWER, AND WATER SERVICES
9. CONSTRUCT TEMPORARY CONCRETE WASHOUT AREA
10. BEGIN CONSTRUCTION OF BUILDING FOUNDATIONS AND STRUCTURES
11. INSTALL CUTTERS, CURBS, AND PREPARE PAVEMENT SUBGRADE
12. CONSTRUCT EXTERIOR BUILDING APURTANCES
13. REMOVE TEMPORARY CONCRETE WASHOUT AREA
14. FINALIZE PAVEMENT CONSTRUCTION
15. REMOVE ALL TEMPORARY BMP CONTROLS AND STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL WITH EROSION CONTROLS
16. PREPARE FINAL SEEDING AND LANDSCAPING
17. MONITOR STABILIZED AREAS UNTIL FINAL STABILIZATION IS OBTAINED.

FEDERAL, STATE, AND LOCAL REGULATION COMPLIANCE

THE STORMWATER POLLUTION PREVENTION PLAN REFLECTS THE **FDEP'S CONSTRUCTION GENERIC PERMIT (CGP)** REQUIREMENTS FOR STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL. THIS PLAN ALSO REFLECTS THE REQUIREMENTS OF THE LOCAL WATER MANAGEMENT DISTRICT (**SFWMD**) AND APPLICABLE LOCAL GOVERNING AGENCIES (I.E. **LEE COUNTY, CITY OF FORT MYERS**, ETC.).

NPDES CERTIFICATIONS

NOTICE OF INTENT (NOI)

A NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" MUST BE SUBMITTED TO THE FLORIDA DEPARTMENT OF PROTECTION AT LEAST ONE MONTH PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST COMPLY WITH THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PER DEP DOCUMENT NUMBER 62-621-300(4)(A). IN CONJUNCTION WITH THE GENERIC PERMIT, THE CONTRACTOR MUST ALSO:

- 1.IMPLEMENT THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
- 2.CONDUCT AND DOCUMENT THE ROUTINE INSPECTIONS AS REQUIRED
- 3.RETAIN RECORDS REQUIRED BY THE PERMIT, INCLUDING A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF THIS PROJECT'S INITIATION UNTIL THE DATE OF FINAL SITE STABILIZATION
- 4.IF THE PROJECT WILL CONTINUE DISCHARGING STORM WATER ASSOCIATED WITH THE CONSTRUCTION ACTIVITY BEYOND THE EXPIRATION OF THE CURRENT COVERAGE, THE CONTRACTOR MUST REQUEST FOR CONTINUED COVERAGE BY FILING A COMPLETED NOI AT LEAST 2 DAYS PRIOR TO THE EXPIRATION OF THE CURRENT COVERAGE PERIOD.

COMPLIANCE WITH THE NOI

FAILURE TO MAINTAIN EROSION AND/OR SEDIMENT CONTROLS, OR ANY ILLICIT DISCHARGE RESULTING FROM THEIR FAILURE WILL LIKELY RESULT IN FINE CITATIONS.

ALL ACTIVITIES MUST CONFORM WITH THE FDEP NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. POLLUTION PREVENTION FROM THE PROPOSED CONSTRUCTION ACTIVITIES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE SWPPP BASIS OF REVIEW.

NOTICE OF TERMINATION (NOT)

A NOTICE OF TERMINATION (NOT) WILL BE SUBMITTED BY THE CONTRACTOR TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION BY THE CONTRACTOR.

CONTROL MEASURE GENERAL NOTES

IN ORDER TO ENHANCE THE EFFECTIVE AND CONSTANT CONTROL OF WATER POLLUTION AND EROSION FOR THE DURATION OF THE CONSTRUCTION PHASE, THE CONTRACTOR IS REQUIRED TO COORDINATE THE INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES WITH THE CONSTRUCTION OF PERMANENT EROSION CONTROL.

THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION OPERATIONS SUCH THAT THE AREA OF EXPOSED AND UNPROTECTED ERODIBLE EARTH IS MINIMIZED. THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED SHALL NOT BE LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS. THE DURATION OF EXPOSURE OF UNCOMPLETED CONSTRUCTION TO THE ELEMENTS MUST BE AS SHORT AS PRACTICABLE. THE CONTRACTOR SHALL SCHEDULE AND PERFORM GRADING AND CLEARING OPERATIONS SO THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER. THE CONTRACTOR SHALL SCHEDULE AND PERFORM GRADING OPERATIONS SO THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS OF THE PROJECT PERMIT.

ANY SITE TURBID WATER BEING REMOVED USING PUMPS SHALL BE TREATED PRIOR TO DISCHARGE INTO WETLAND AREAS. ACCEPTABLE TREATMENT METHOD EXAMPLES INCLUDE: PUMPING TURBID WATER INTO SEDIMENT BASINS, OR BASINS CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS LOW BERMS OR TURBIDITY BARRIERS, OR PUMPING TURBID WATER INTO GRASSY SWALES AND UPLAND VEGETATION AREAS (NOT WETLAND BASINS AND/OR UPLAND PRESERVATION AREAS), AND THEN KEPT CONTAINED FOR A PERIOD OF TIME OR UNTIL TURBIDITY LEVELS MEET STATE WATER QUALITY STANDARDS.

WATER CAN BE MOVED AROUND WITHIN THE SITE BY THE USE OF PUMPS AND PIPES OR INTERNAL SWALES.

THE METHODOLOGIES SELECTED BY THE CONTRACTOR FOR THE PROJECT'S TURBIDITY AND EROSION CONTROL SHALL BE TAILORED APPROPRIATELY FOLLOWING AN ASSESSMENT OF THE PLANS, PROJECT SITE-SPECIFIC-FACTORS AND CONSULTATIONS (AS NEEDED) WITH THE APPROPRIATE AGENCIES AND PROJECT ENGINEER(S).

STATE WATER QUALITY STANDARDS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. DISCHARGES THAT EXCEED 29 NORMALIZED TURBIDITY UNITS (NTU) OVER THE BACKGROUND LEVELS VIOLATE THE STATE STANDARDS. DISCHARGES OF WATER QUALITIES WHICH ADVERSELY IMPACT WETLANDS AND/OR OFFSITE PROPERTIES ARE PROHIBITED BY REGULATING AGENCIES.

THE CONTRACTOR MUST UPDATE THE SWPPP WITHIN SEVEN CALENDAR DAYS FOLLOWING INSPECTIONS WHERE ADDITIONS AND/OR MODIFICATIONS TO BMPs ARE NECESSARY TO CORRECT OBSERVED PROBLEMS.

ADDITIONAL ACTIVITIES, AS DESCRIBED IN THE DOCUMENT ENTITLED, "THE FLORIDA DEVELOPMENT MANUAL A GUIDE TO SOUND LAND AND WATER MANAGEMENT" (REVISED FEBRUARY 1993), MAY BE CONDUCTED AS NEEDED TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS. A COPY CAN BE DOWNLOADED AT NO COST AT THE FOLLOWING HTTPS://WWW.SFWMD.STATE.FL.US/FILES/DATABASE/SITE_FILES/1959/FD_DEVL_CH6-SEC310.PDF

ALL EROSION CONTROL INSTALLATION AND INSTALLATION COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER, IF CONTACTED BY THE OWNER, WILL STAKE THE ALIGNMENT OF THE PROPOSED EROSION CONTROL. BE HEREBY ADVISED THAT THE CONSTRUCTION APPROVAL AND MAINTENANCE OF THE EROSION CONTROL SHALL BE THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR.

EROSION AND SEDIMENT CONTROLS

NATURAL BUFFERS

THERE ARE NO NATURAL SURFACE WATERS WITHIN 50' OF THE PROPOSED CONSTRUCTION DISTURBANCES.

PERIMETER CONTROLS

A SILT FENCE WILL BE INSTALLED AT THE LIMITS OF CONSTRUCTION TO PROVIDE PERIMETER CONTROL DURING THIS PROJECT'S CONSTRUCTION. SEDIMENT MAY NOT ACCUMULATE ABOVE ONE-QUARTER OF THE ABOVE-GROUND HEIGHT OF THE SILT FENCE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ACCUMULATED SEDIMENT AND MAINTAINING THE SILT FENCE. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED IN OPEN WATER AND/OR IN FLOWING SYSTEMS. THE TURBIDITY BARRIER SHALL BE MAINTAINED UNTIL ALL SOIL IS STABILIZED AT THE COMPLETION OF THE PROJECT. THE TYPE OF EROSION CONTROL BARRIERS USED MAY REQUIRE ADJUSTMENT BASED ON THE SOIL TYPE EXPOSED AND/OR THE NATURE OF CONSTRUCTION OPERATIONS. WHILE SANDY MATERIAL MAY ONLY REQUIRE A SILT FENCE, CLAY AND SILT MATERIAL MAY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE.

SEDIMENT TRACK-OUT

A SOIL TRACKING PREVENTION DEVICE SHALL BE INSTALLED BY THE CONTRACTOR AT ALL CONSTRUCTION ENTRANCES AND EXITS FOR THE SITE TO MINIMIZE THE SEDIMENT TRACKING FROM VEHICLES ENTERING AND LEAVING THE CONSTRUCTION SITE. ANY SEDIMENT TRACKED-OUT OF THE CONSTRUCTION AREA SHALL BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH THE TRACK-OUT OCCURS OR IS DISCOVERED. REMOVAL OF THE TRACKED-OUT SEDIMENT SHALL OCCUR BY SWEEPING, SHOVELING, VACUUMING, OR ANY OTHER EFFECTIVE METHOD OF SEDIMENT REMOVAL. HOSSING OR SWEEPING OF THE TRACKED-OUT SEDIMENT INTO ANY STORMWATER CONVEYANCE SYSTEM NOT CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILAR CONTROL IS PROHIBITED.

SITE STABILIZATION PRACTICES

EXPOSED SOILS SHALL BE STABILIZED AS SOON AS POSSIBLE, ESPECIALLY SLOPES LEADING TO WETLANDS. EITHER TEMPORARY OR PERMANENT STABILIZATION METHODS MAY BE UTILIZED AS LISTED BELOW.

TEMPORARY: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASED FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE. EXPOSED SOILS MAY BE STABILIZED USING SEEDING AND MULCHING, SOD, OR HYDRO-MULCHING.

PERMANENT: ROADWAY CURBS AND CUTTERS SHALL BE INSTALLED AS SOON AS POSSIBLE TO REDUCE THE AMOUNT OF SURFACE AREA EXPOSED. ALL DISTURBED AREAS WILL BE STABILIZED WITH SEEDING AND MULCHING, SOD, OR HYDRO-MULCHING. ADDITIONALLY, MULCH BLANKETS, FILTER FABRICS AND SIMILAR METHODS CAN BE USED TO PROVIDE VEGETATION PROTECTION.

STOCKPILED SEDIMENT/SOIL

ALL STOCKPILED SEDIMENT OR SOIL SHALL BE LOCATED OUTSIDE OF ANY NATURAL BUFFERS AND SEPARATED FROM ANY STORMWATER CONVEYANCE SYSTEM. THE STOCKPILE SHALL BE PROTECTED FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY BERM OR SILT FENCE. WHERE PRACTICABLE, COVER OR APPROPRIATE TEMPORARY STABILIZATION SHALL BE IMPLEMENTED TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE IN ACCORDANCE WITH THE ALLOWABLE STABILIZATION PRACTICES. SLOPES OF STOCKPILES SHALL NOT EXCEED 2H:1V TO PREVENT EROSION.

DUST CONTROL

DUST CONTROL WILL BE IMPLEMENTED AS NEEDED DURING WINDY CONDITIONS (FORECASTED OR ACTUAL WIND CONDITIONS OF 20 MPH OR GREATER) WHILE SITE GRADING IS OCCURRING. SPRAY OF POTABLE WATER WILL BE PERFORMED WHENEVER THE DRYNESS OF THE SOIL WARRANTS IT.

DISTURBANCE TO STEEP SLOPES

SLOPES STEEPER THAN 4H:1V SHALL BE STABILIZED WITH SOD AND STAKED IN PLACE IMMEDIATELY AFTER SOIL DISTRIBUTION.

TOPSOIL PRESERVATION

ONLY REMOVE TOPSOIL AS REQUIRED TO ALLOW FOR PROPOSED CONSTRUCTION. PRESERVE DISTURBED TOP SOIL IN STOCKPILES FOR LATER USE IN FINAL GRADING AND LANDSCAPING.

SOIL COMPACTION

PRIOR TO SEEDING, SODDING, OR PLANTING IN AREAS OF EXPOSED SOIL THAT HAVE BEEN COMPACTED, SCARIFY TO A DEPTH OF 3" TO SUPPORT VEGETATIVE GROWTH, IF NECESSARY AND FEASIBLE.

STORM DRAIN INLET CONTROL & PRESERVATION

STORM INLETS SHALL BE PROTECTED WITH SILT FENCE MATERIAL, OR INSERTS SELECTED BY THE CONTRACTOR. CLEAN, OR REMOVE AND REPLACE, THE PROTECTION MEASURES AS SEDIMENT ACCUMULATES, IF THE FILTER BECOMES CLOGGED, OR IF PERFORMANCE IS COMPROMISED. WHERE THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT TO THE INLET PROTECTION MEASURE, THE CONTRACTOR SHALL REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME WORK DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING WORK DAY IF REMOVAL BY THE SAME WORK DAY IS NOT FEASIBLE.

CONSTRUCTED STORM WATER CONVEYANCE CHANNELS

ALL SWALES WILL HAVE MAXIMUM SIDE SLOPES OF 4H:1V. THE INSTALLATION OF THE VEGETATED SWALES WILL BEGIN AFTER CLEARING AND GRUBBING OPERATION ARE COMPLETED AT THE SITE. SWALES ARE TO BE SODDED AND STABILIZED BEFORE DRAINING STORMWATER THROUGH THEM. SWALES SHALL BE INSPECTED WEEKLY AND IMMEDIATELY AFTER STORM EVENTS FOR EROSION AND STRUCTURAL FAILURES. REMOVE DEBRIS AND SEDIMENT AND REPAIR DAMAGE FROM EROSION IMMEDIATELY. REGULARLY MOW SWALES TO PROMOTE PROPER STORMWATER CONVEYANCE.

SEDIMENT BASINS

A TEMPORARY SEDIMENT TRAP SHALL BE CONSTRUCTED AS SHOWN ON THIS SWPPP. THE CONTRACTOR SHALL UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE OF THE STORED WATER. THE VELOCITY DISCHARGING WATER FROM THE SEDIMENT TRAP SHALL BE CONTROLLED TO AVOID SCOURING IN RECEIVING AREAS. THE SEDIMENT TRAP SHALL BE KEPT IN EFFECTIVE OPERATING CONDITION AND REMOVE ACCUMULATED SEDIMENT TO MAINTAIN AT LEAST 1% OF THE DESIGN CAPACITY OF THE SEDIMENT BASIN AT ALL TIMES. THE SEDIMENT POND MUST BE MONITORED FOR HIGH WATER LEVELS TO ENSURE STORMWATER IS PROPERLY CONTAINED AND TO AVOID BERM FAILURES.

ENERGY DISSIPATORS

ENERGY DISSIPATORS (SUCH AS HAY BALES, GRAVEL BEDS, RIP RAP, ETC.) SHALL BE INSTALLED AT THE DISCHARGE POINT OF SWALES AND/OR PIPES IF SCOURING IS OBSERVED.

OUTFALL PROTECTION

SILT SCREENS, HAY BALES, OR GRAVEL BEDS SHALL BE ADDED AROUND SWALE OR PIPE DISCHARGE LOCATIONS IF NECESSARY TO FILTER DISCHARGES.

SHEET FLOW CONTROL

SHEET FLOW OF NEWLY FILLED OR SCRAPED AREAS MAY BE CONTROLLED OR CONTAINED BY THE USE OF DIVERSION SWALES, BRUSH BARRIERS, LOW BERMS OR INTERCEPTING DITCHES. WATER FLOW SHOULD BE DIRECTED TOWARD AREAS WHERE SEDIMENTS CAN FILTER OUT SUFFICIENTLY.

SPREADER SWALES

SPREADER SWALES MAY BE UTILIZED TO SETTLE-OUT WATER SEDIMENTS PRIOR TO RELEASING DISCHARGE.

CHEMICAL TREATMENTS

IF WATER CLARITY DOES NOT IMPROVE TO STATE STANDARDS RAPIDLY ENOUGH WITHIN HOLDING PONDS OR SEDIMENT TRAPS, CHEMICAL AGENTS SUCH AS ALUM MAY BE USED TO COAGULATE OR FLOCCULATE THE SEDIMENT PARTICLES.

DEWATERING PRACTICES

ONLY UNCONTAMINATED, NON-TURBID DEWATERING WATER SHALL BE DISCHARGED. GROUND WATER DEWATERING ACTIVITIES ARE NOT COVERED UNDER THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. IF THE CONTRACTOR DISCOVERS GROUNDWATER DEWATERING IS NECESSARY DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE DEWATERING AUTHORIZATION OR PERMIT EXEMPTION FROM THE LOCAL WATER MANAGEMENT DISTRICT.

OTHER CONTROLS

A VEHICLE WASH-DOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL BE LOCATED IN ANY AREA THAT WILL ALLOW FOR THE DISCHARGE OF POLLUTED RUNOFF INTO THE SEDIMENT TRAP. A SMALL VEGETATED BERM SHALL BE PLACED AROUND THE WASH-DOWN AREA.

CONTROL MEASURE TIMING

STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCE, AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTION OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED.

NON-STORM WATER DISCHARGES

THE LIKELY NON-STORMWATER DISCHARGES THAT WILL POTENTIALLY BE PRESENT ON-SITE ARE LISTED BELOW. ALL NON-STORMWATER DISCHARGES SHALL BE DIRECTED TO THE TEMPORARY SEDIMENT TRAP PRIOR TO DISCHARGE.

FIRE HYDRANT FLUSHING	POTABLE WATER FROM UNCONTAMINATED WATER LINE FLUSHING
FIREFIGHTING ACTIVITIES	UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE
LANDSCAPE IRRIGATION	UNCONTAMINATED, NON-TURBID DISCHARGES OF GROUND WATER/SPRING WATER
WATER FOR DUST CONTROL	PAVEMENT WASH WATERS (WHERE NO SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURED)

GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED UNDER THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST APPLY FOR COVERAGE UNDER THE GENERIC PERMIT FOR DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300(2), F.A.C.

POLLUTANT CONTROLS

WASTE DISPOSAL

GENERAL WASTE:

WASTE MATERIALS AND DEBRIS SHALL BE PLACED IN DUMPSTERS AND HAULED OFFSITE TO A PROPER DISPOSAL SITE. THE DUMPSTER MUST BE EMPTIED AT LEAST ONCE PER WEEK. NO MATERIALS WILL BE DISCHARGED TO ADJACENT WATERS OR BURIED ONSITE. PACKAGING MATERIALS, SCRAP CONSTRUCTION MATERIALS, MASONRY PRODUCTS, TIMBER, PIPE AND ELECTRICAL CUTTING, PLASTICS, STYROFOAM, CONCRETE, AND OTHER TRASH OR BUILDING MATERIALS SHALL BE DISPOSED OF AT THE END OF EACH WORKDAY.

SANITARY WASTE:

POTABLE TOILETS SHALL BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, IN ACCORDANCE WITH LOCAL REGULATIONS

HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED IN COMPLIANCE WITH LOCAL AND/OR STATE REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THESE PRACTICES ARE FOLLOWED.

OFFSITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPAULIN AT ALL TIMES.

APPLICATION RATES FOR PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, AND LANDSCAPE MATERIALS

APPLICATION RATES AND DISPOSAL PROCEDURES SHALL COMPLY WITH THE MATERIAL'S MANUFACTURER LABEL. THE APPLIED CHEMICALS SHALL BE WORKED INTO THE SOIL ONCE APPLIED TO LIMIT EXPOSURE TO STORMWATER.

STORAGE, APPLICATION, GENERATION, AND MIGRATION OF TOXIC SUBSTANCES

HAZARDOUS PRODUCTS:

HAZARDOUS PRODUCTS INCLUDE FERTILIZERS, PAINTS, OR ANY OTHER POTENTIALLY TOXIC SUBSTANCE. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS. IF THE ORIGINAL CONTAINER CANNOT BE RESEALED, PRODUCTS MUST BE STORED IN A SEALABLE CONTAINER. ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN THE PRODUCT IS NOT REQUIRED FOR USE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED AS THEY CONTAIN IMPORTANT PRODUCT INFORMATION. THE CONTAINERS MUST BE STORED IN A COVERED SHED. IF SURPLUS PRODUCTS MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.

ANY FUEL TANKS WILL BE DOUBLE-WALLED AND PLACED ON A DRIP PAN TO CONTAIN AND PREVENT ANY DROPS OR LEAKS FROM BEING DISCHARGED IN STORMWATER RUNOFF. ALL PAINTS AND OTHER CHEMICALS WILL BE STORED IN A LOCKED COVERED SHED.

WASHING OF APPLICATORS AND CONTAINERS USED FOR PAINT, CONCRETE, OR OTHER MATERIALS: DISCHARGE OF WATER FROM THE WASHOUT AND CLEANOUT OF STUCCO, PAINT, CONCRETE, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS SHALL BE DIRECTED INTO A LEAK-PROOF CONTAINER OR LEAK-PROOF PIT. THE CONTAINER OR PIT WILL BE DESIGNED SO THAT NO OVERFLOWS CAN OCCUR DUE TO INADEQUATE SIZING OR PRECIPITATION. WASHOUT OR CLEANOUT WASTES SHALL NOT BE DUMPED INTO STORM SEWERS. WASHOUT OR CLEANOUT ACTIVITIES SHALL BE LOCATED AS FAR AWAY AS POSSIBLE FROM SURFACE WATERS AND STORMWATER INLETS OR CONVEYANCES. DESIGNATED AREAS SHALL BE USED FOR THESE ACTIVITIES. THESE ACTIVITIES ARE PERMITTED WITHIN THESE DESIGNATED AREAS ONLY.

ALL CONTAINMENT AREAS FOR FUEL STORAGE OR OTHER HAZARDOUS STORAGE SHALL CONFORM TO STATE OR FEDERAL REGULATIONS AND CRITERIA.

PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY-SEALED CONTAINERS THAT ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

CONCRETE TRUCKS:

THE CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, WATERWAYS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER. THE CONTRACTOR SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. THE CONTRACTOR MUST PREPARE A DETAILED SITE PLAN FOR APPROVAL FOR THE CONCRETE DISCHARGE AND WASH-DOWN ACTIVITIES.

POLLUTION PREVENTION

POTENTIAL SOURCES OF POLLUTION

THERE ARE NO NATURAL SURFACE WATERS WITHIN 50' OF THE PROPOSED CONSTRUCTION DISTURBANCES.

THE FOLLOWING MATERIALS OR SUBSTANCES LISTED BELOW ARE POTENTIAL SOURCES OF POLLUTION EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION. THE LIST IS NOT EXHAUSTIVE, BUT DEMONSTRATIVE OF THE TYPES OF POSSIBLE POLLUTANT SOURCES PRESENT ON-SITE.

ASPHALT	INSECTICIDES	CLEANING SOLVENTS	GLASS
GASOLINE	FUNGICIDES	DETERGENTS	SAND
CONCRETE	HERBICIDES	GLUE & ADHESIVES	STONE
DIESEL FUEL	OTHER PESTICIDES	PAINTS (ENAMEL, LATEX, ETC.)	METAL STUDS
KEROSENE	FERTILIZER	CURING COMPOUNDS	MASONRY BLOCK
OTHER PETROLEUM PRODUCTS	HYDRAULIC OIL	WOOD & WOOD PRESERVATIVES	WOOD
ANTIFREEZE & COOLANT	SANITARY TOILETS	PLASTER	GLASS
ROOFING SHINGLES	TAR		

SPILL PREVENTION

STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS THAT THE CONTRACTOR MUST BE KEPT IN THE TRAILER. MANUFACTURER'S LABELS ON SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

SPILL RESPONSE

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AT THE SITE. ALL SITE PERSONNEL WILL BE MADE AWARE OF THE LOCATION OF THE CLEANUP PROCEDURES/INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT ARE NOT LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, SAND, SANDWAT, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

IN CONJUNCTION WITH THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:

1. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
2. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING
3. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. THE CONTRACTOR IS REQUIRED TO NOTIFY THE STATE WARNING POINT (650-413-9911 OR 800-320-0519) AS SOON AS THE DISCHARGE IS ACKNOWLEDGED.
4. THE CONTRACTOR SHALL PREPARE A SPILL PREVENTION PLAN AND KEEP IT IN THE CONSTRUCTION OFFICE TRAILER. THE SPILL PREVENTION PLAN WILL INCLUDE MEASURES TO PREVENT THE SUBJECT SPILL FROM REOCCURRING AND THE METHODS THAT SHOULD BE TAKEN TO CLEAN UP OTHER SPILLS. A DESCRIPTION OF THE SUBJECT SPILL, ITS CAUSE, AND THE CLEANUP MEASURES UTILIZED MUST ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.
5. WITHIN 14 CALENDAR DAYS OF THE KNOWLEDGE OF THE DISCHARGE RELEASE, THE CONTRACTOR MUST SUBMIT A DESCRIPTION OF THE RELEASE AMOUNT, THE RELEASE MATERIAL, THE DATE THE RELEASE OCCURRED, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND REMEDIAL STEPS TAKEN TO THE FOLLOWING ADDRESS:
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NPDES STORMWATER DIVISION
MAIL STATION 2500
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

THE CONTRACTOR WILL BE RESPONSIBLE FOR SPILL PREVENTION AND CLEANUP COORDINATION. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON-SITE.

ON-SITE EQUIPMENT AND VEHICLES

IN AN EFFORT TO FURTHER PREVENT POLLUTANT SPILLS, ALL EQUIPMENT AND VEHICLE MAINTENANCE SHALL NOT BE PERMITTED ONSITE. IF ONSITE FUELING IS ANTICIPATED, THE CONTRACTOR SHALL DESIGNATE FUEL TANK STORAGE AREAS WITH SECONDARY CONTAINMENT (SPILL COLLECTION). ANY FUEL TANK STORAGE AREAS SHALL BE LOCATED AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, WATERWAYS, AND WETLANDS. FUELING SHALL BE ALLOWED IN THE DESIGNATED AREAS ONLY. IF ONSITE EQUIPMENT AND VEHICLE WASHING IS ANTICIPATED, THE CONTRACTOR SHALL DESIGNATE A WASHING AREA WITH A SMALL VEGETATED BERM ENCOMPASSING IT. WASHING SHALL BE ALLOWED IN THE DESIGNATED AREAS ONLY.

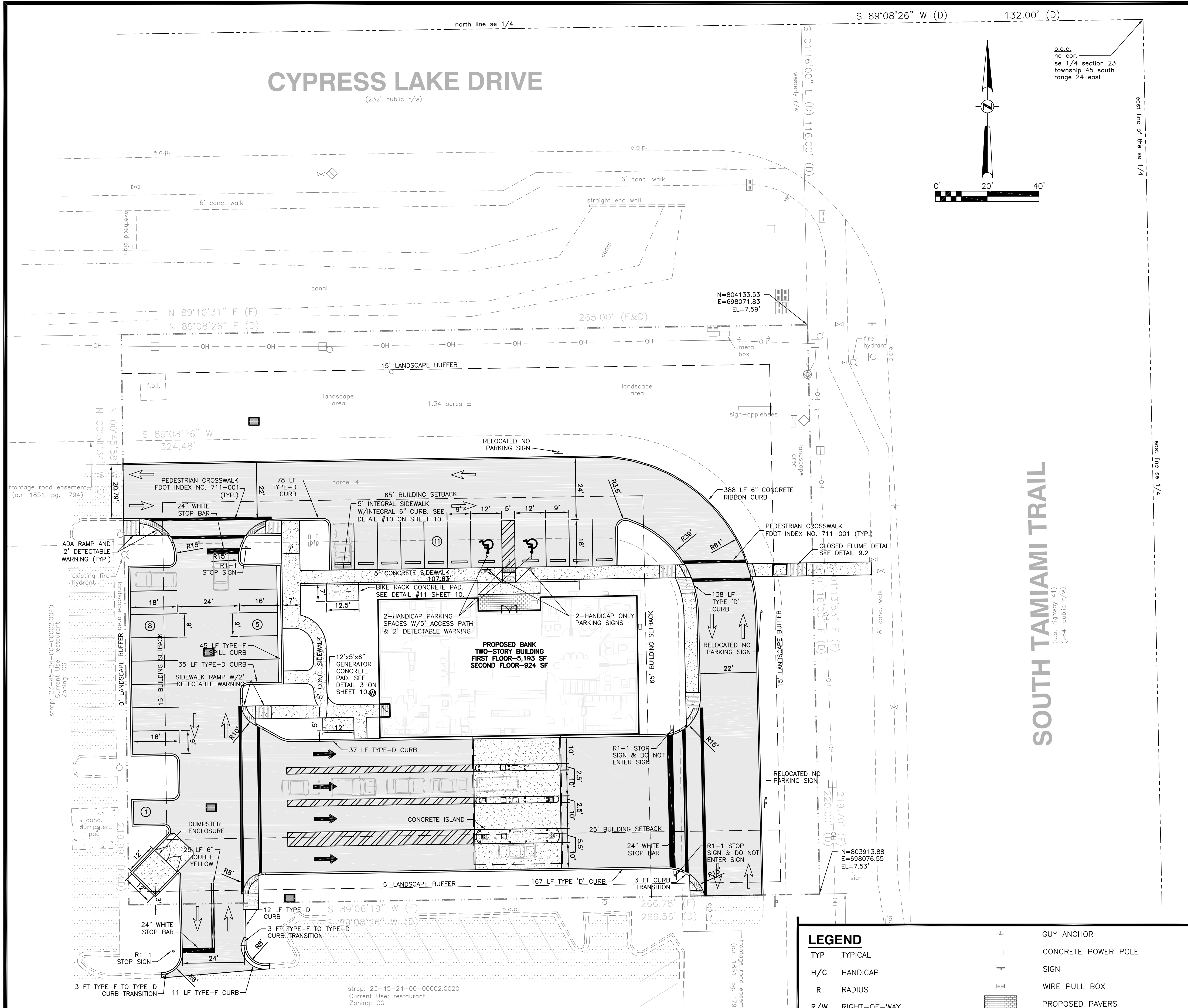
PORTABLE TOILET LOCATION

POTABLE TOILETS WILL BE PLACED AWAY FROM STORM SEWER SYSTEMS, STORM INLETS, SURFACE WATERS, AND WETLANDS TO PREVENT CONTAMINATION.

CONTROL MEASURE MAINTENANCE

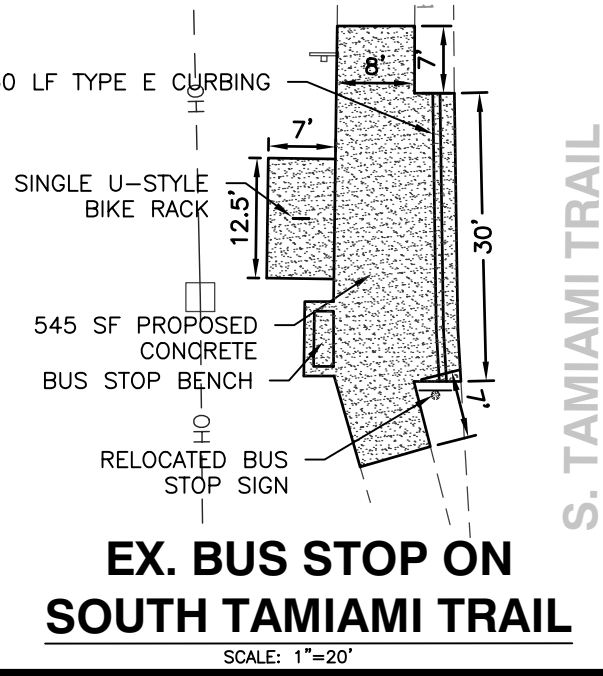
THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY SEDIMENT AND EROSION CONTROL FEATURES. THE INSPECTION PRACTICES FOR THE SEDIMENT AND EROSION CONTROL FEATURES ARE LISTED BELOW. INSPECTIONS MUST OCCUR WEEKLY AND WITHIN 24 HOURS OF A STORM EVENT WITH A RAINFALL DEPTH OF 1/2" OR GREATER.

1. ALL CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THEY ARE IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF THE REPORT.
2. ANY SILT FENCING SHALL BE INSPECTED TO ENSURE IT IS IN GOOD WORKING ORDER. SILT FABRIC SHALL BE WITHOUT TEARS, BE SECURELY ATTACHED TO THE FENCE POSTS, AND THE FENCE POSTS SHALL BE FIRMLY STAKED INTO THE GROUND. ANY REQUIRED REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORT. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH ONE-QUARTER THE HEIGHT OF THE BARRIER.
3. THE ROCK ENTRANCE SHALL BE INSPECTED FOR SEDIMENT FILLING THE VOID SPACES OF THE ROCK. MAINTENANCE SHALL BE PERFORMED WHEN VOID SPACES ARE FULL OF SEDIMENT.
4. THE SEDIMENT BASIN(S) SHALL BE INSPECTED FOR DEPTH OF SEDIMENT. REMOVE SEDIMENT WHEN IT REACHES 10% OF THE TOTAL VOLUME. REPLACE OR CLEAN ROCK WHEN VOID SPACES ARE FULL OF SEDIMENT.
5. SYNTHETIC BALES MAY BE USED IN AREAS WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN THREE MONTHS. INSPECTION OF THE BALES SHALL TAKE PLACE IMMEDIATELY AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
6. INLETS AND OUTFALL SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIR



SITE PLAN NOTES:

- ALL DIMENSIONS SHOWN ARE TO FACE OF CURB. BUILDING DIMENSIONS ARE TO FACE OF BUILDING.
- EXISTING IMPROVEMENTS SHOWN ARE TAKEN FROM BOUNDARY & TOPOGRAPHIC SURVEY PREPARED BY KP SURVEYING, INC., DATED 11/4/19.
- BUILDING AND SIDEWALK DIMENSIONS ARE TO OUTSIDE EDGE OF WALL.
- ALL TIES TO THE PROPERTY LINE ARE BASED ON THE BOUNDARY & TOPOGRAPHIC SURVEY.
- ALL CURB RADIUS ARE 3' UNLESS OTHERWISE NOTED.
- PARKING SPACES STRIPING IS TO BE ALL-WEATHER PAINTED LINES NOT LESS THAN FOUR INCHES IN WIDTH, CENTERED ON THE DIVIDING LINE BETWEEN SPACES. PARKING SPACES FOR PERSONS WITH DISABILITIES MUST BE PROMINENTLY OUTLINED WITH BLUE PAINT, AND MUST BE REPAINTED WHEN NECESSARY TO BE CLEARLY DISTINGUISHABLE AS A PARKING SPACE DESIGNATED FOR PERSONS WHO HAVE DISABILITIES. SIGN ERECTED AFTER OCTOBER 1, 1996 MUST INDICATE THE PENALTY FOR ILLEGAL USE OF THE SPACE.



LEGEND

- | | | | |
|-----|-----------------------------------|-----|-------------------------------|
| TYP | TYPICAL | ↓ | GUY ANCHOR |
| H/C | HANDICAP | □ | CONCRETE POWER POLE |
| R | RADIUS | □ | SIGN |
| R/W | RIGHT-OF-WAY | □ | WIRE PULL BOX |
| → | TRAFFIC FLOW (INFORMATIONAL ONLY) | ▨ | PROPOSED PAVERS |
| → | TRAFFIC FLOW (PAVEMENT MARKING) | --- | EXISTING OVERHEAD POWER LINES |
| ↻ | HANDICAP PARKING | --- | PROPOSED CURB |
| ⊙ | GAS VALVE | --- | PROPERTY LINE |
| ◇ | AIR RELEASE VALVE | --- | RIGHT-OF-WAY |
| ◇ | POST-FIBER OPTICS | --- | EXISTING EDGE OF PAVEMENT |
| ▽ | POST-GAS | ▨ | PROPOSED CONCRETE PAVEMENT |
| ⊕ | FIRE HYDRANT | ▨ | PROPOSED ASPHALT PAVEMENT |
| ⊕ | TELEPHONE PEDESTAL | ▨ | EXISTING ASPHALT PAVEMENT |
| ⊕ | WOOD POWER POLE | ▨ | EXISTING CONCRETE PAVEMENT |

SITE DATA

- | | | |
|--|---|---------|
| 1. SITE ADDRESS | 13550 SOUTH TAMAMI TRAIL
FORT MYERS, FLORIDA 33912 | |
| 2. GROSS SITE AREA | 58,456 SF | 1.34 AC |
| 3. EXISTING ZONING | CG | |
| 4. FUTURE LAND USE | INTENSIVE DEVELOPMENT (ID) | |
| 5. OVERLAY DISTRICT | MIXED USE OVERLAY (MUO) | |
| 6. PRESENT USE | RESTAURANT | |
| 7. PROPOSED USE | FINANCIAL ESTABLISHMENT | |
| 8. BUILDING SETBACKS | | |
| FRONT (NORTH & EAST) | 65 FT | |
| SIDE (WEST) | 15 FT | |
| REAR (SOUTH) | 25 FT | |
| 9. LANDSCAPE BUFFERS | | |
| FRONT (NORTH & EAST) | 15 FT | |
| SIDE (WEST) | 0 FT | |
| REAR (SOUTH) | 5 FT | |
| 10. FOLIO NUMBER | 10210120 | |
| 11. SITE AREAS: | | |
| VEHICULAR USE AREA | 26,920 SF | 46.05% |
| BUILDING AREA | 5,193 SF | 8.88% |
| TRASH ENCLOSURE AREA | 142 SF | 0.24% |
| SIDEWALK AREA | 1,279 SF | 2.19% |
| TOTAL IMPERVIOUS AREA | 33,534 SF | 57.37% |
| PERVIOUS AREA | 24,922 SF | 42.63% |
| GROSS SITE AREA | 58,456 SF | 100.00% |
| FLOOR AREA RATIO | 0.105 | |
| GARBAGE COLLECTION AREA REQUIRED | 5000 TO 10,000 SF BUILDING = 80 SF | |
| GARBAGE COLLECTION AREA PROVIDED | = 80 SF | |
| RECYCLABLE COLLECTION AREA REQUIRED | = 48 SF | |
| RECYCLABLE COLLECTION AREA PROVIDED | = 48 SF | |
| 12. PARKING DATA: | | |
| FINANCIAL ESTABLISHMENT | 3 SPACES PER 1000 SF = 18.4 OR 19 SPACES | |
| PARKING REQUIRED: | | |
| BANK WITH DRIVE-THRU | 6,117/(1,000 x 3) | |
| FIRST FLOOR | 5,193 SF/(1,000 SF/SPACES) x 3 = 15.58 SPACES | |
| SECOND FLOOR | 924 SF/(1,000 SF/SPACES) x 3 = 2.76 SPACES | |
| TOTAL PARKING SPACES REQUIRED | = 19 SPACES | |
| TOTAL PARKING SPACES PROVIDED | = 25 SPACES | |
| TOTAL HANDICAPPED PARKING SPACES REQUIRED | = 2 SPACES | |
| TOTAL HANDICAPPED PARKING SPACES PROVIDED | = 2 SPACES | |
| TOTAL BICYCLE PARKING SPACES REQUIRED | -0.05 x 31 = 1.55 OR 2 SPACES | |
| TOTAL BICYCLE PARKING SPACES PROVIDED | = 2 SPACES | |
| 13. UTILITIES | | |
| WATER SERVICE | LEE COUNTY UTILITIES DEPT.
CONTACT NAME: NATHAN BEALS
1500 MONROE STREET
3RD FLOOR UTILITIES
FORT MYERS, FL 33901
PH# (239) 533-8181 | |
| SEWER SERVICE | LEE COUNTY UTILITIES DEPT.
CONTACT NAME: NATHAN BEALS
1500 MONROE STREET
3RD FLOOR UTILITIES
FORT MYERS, FL 33901
PH# (239) 533-8181 | |
| ELECTRIC SERVICE | FLORIDA POWER & LIGHT
CONTACT NAME: JOEL BRAY
PH# (386) 586-6403 | |
| TELEPHONE SERVICE | SPRINT
2820 CARGO STREET, BLDG. A
FORT MYERS, FL 33902
CONTACT NAME: LEON BRYANT
PH# (239) 536-2123 | |
| GAS SERVICE | TECO PEOPLES GAS
8416 PALM RIVER ROAD
TAMPA, FL 34236
CONTACT NAME: JOAN DOMNING
PH# (813) 275-3783 | |
| 14. FLOOD ZONE | PARCEL LIES IN FLOOD ZONE AE, WITH A BASE FLOOD ELEVATION OF 7 FEET, AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP 12071C0436G, EFFECTIVE DATE: 12/07/2018. | |
| 15. OWNER | MIDFLORIDA CREDIT UNION
129 SOUTH KENTUCKY AVENUE SUITE 600
LAKELAND, FLORIDA 33801 | |
| 16. THERE ARE NO ENVIRONMENTALLY SENSITIVE AREAS ON THIS SITE. | | |
| 17. MAX BUILDING HEIGHT = 35 FT. | | |
| 18. PROPOSED BUILDING HEIGHT = 26 FT. | | |
| 19. MAX LOT COVERAGE = 40%. | | |
| 20. PROPOSED LOT COVERAGE = 8.9%. | | |
| 21. CONSTRUCTION TYPE = V(B). | | |



MIDFLORIDA CREDIT UNION
13550 SOUTH TAMAMI TRAIL
FORT MYERS, FLORIDA 33912

STEVEN C. BOGGS
STATUS OF PROFESSIONAL ENGINEER
LICENSE NO. 58410
THIS ITEM HAS BEEN RECALLED
BY STEVEN C. BOGGS, P.E. ON
07/29/2024 USING SHA-1
COPIES OF THIS DOCUMENT ARE NOT
VALID AND THE SHA-1 AUTHENTICATION
CODE ELECTRONIC CODE



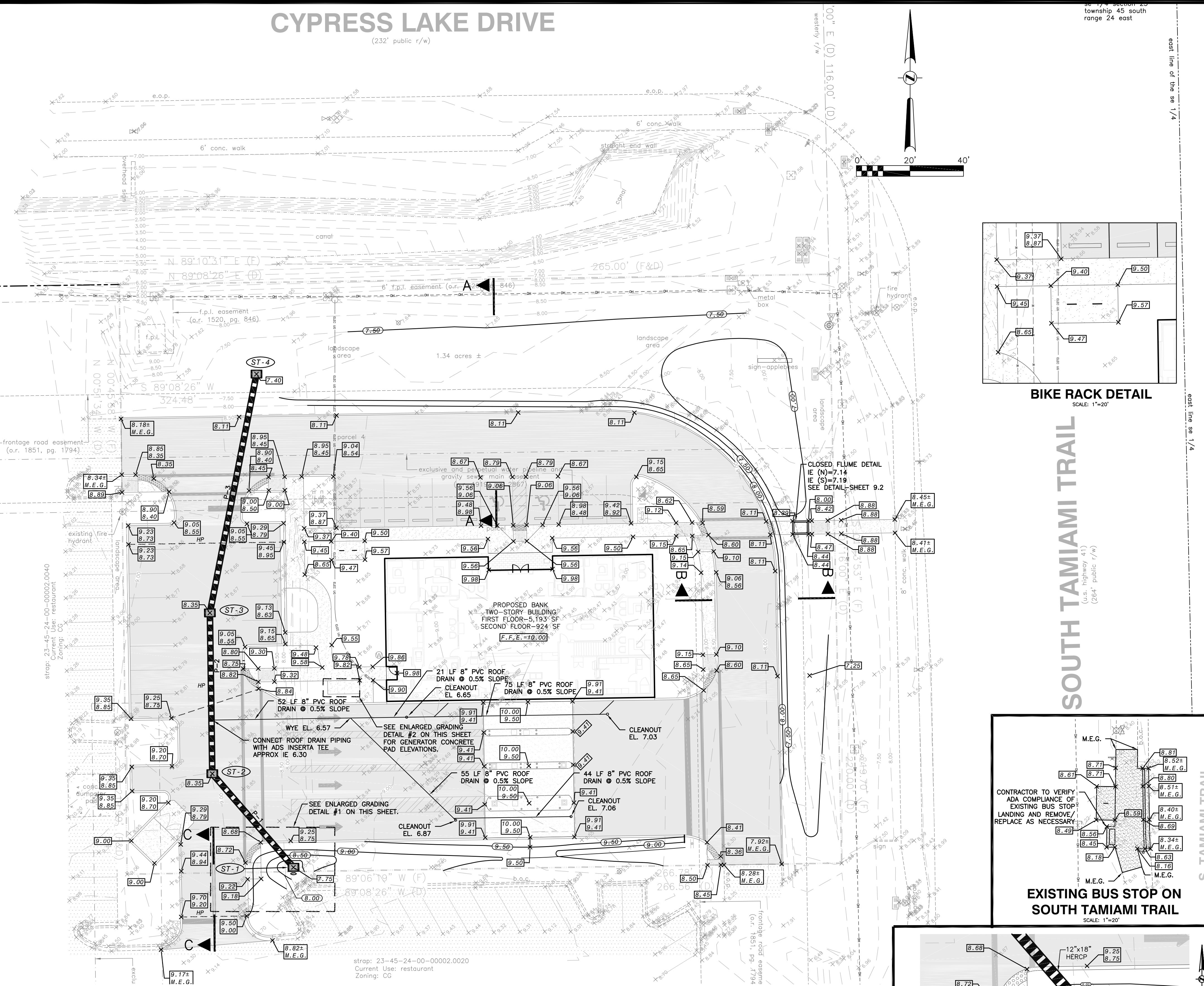
DATE: 2/5/24
DESIGNED BY: PME
DRAWN BY: NB
CHECKED BY: SCB
PROJECT NO:
19250
DRAWING TITLE:

SITE PLAN

SHEET NO:
6.0

CYPRESS LAKE DRIVE

(232' public r/w)



A-A PROFILE

SCALE
HORIZ: 1"=20'
VERT: 1"=20'

B-B PROFILE

SCALE
HORIZ: 1"=20'
VERT: 1"=20'

C-C PROFILE

SCALE
HORIZ: 1"=20'
VERT: 1"=20'EXISTING BUS STOP ON
SOUTH TAMiami TRAIL

SCALE: 1"=20'

ENLARGED GRADING DETAIL #1

SCALE: 1"=10'-0"

PAVING, GRADING AND DRAINAGE NOTES:

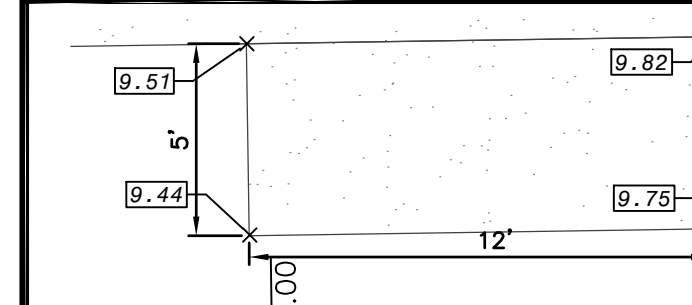
- ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
- ALL STORM STRUCTURES SHALL BE FINISH GROUTED TO INVERT ELEVATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD 48 HOURS PRIOR TO COVERING STORMWATER PIPING FOR INSPECTION.
- SEE GENERAL NOTES SHEET FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES.
- REFER TO SITE PLAN SHEET 6 FOR SITE DATA.
- THE CONTRACTOR SHALL MEET ALL APPLICABLE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE ACCESSIBILITY REQUIREMENTS MANUAL PREPARED BY THE FLORIDA BOARD OF BUILDING CODES AND STANDARDS.
- THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR LOCAL MUNICIPALITY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION WITH REGARD TO IMPROVEMENTS WITHIN THEIR RESPECTIVE RIGHTS-OF-WAY.
- ALL PVC STORM PIPE SHALL COMPLY WITH AWWA, SDR 35.
- ALL DISTURBED AREAS WITHIN FDOT RIGHTS-OF-WAY TO BE SODDED.
- PARCEL LIES IN FLOOD ZONE AE, WITH A BASE FLOOD ELEVATION OF 7 FEET, AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP 12071C0436G, EFFECTIVE DATE: 12/07/2018.
- THE FLORIDA DEPARTMENT OF TRANSPORTATION PERMANENT CONTROL NETWORK WAS UTILIZED ON THIS BOUNDARY SURVEY AND THE DATUM IS NORTH AMERICAN DATUM (NAD83)-(2011)-(EPOCH 2017.000). THE STATED HORIZONTAL ACCURACY IS 1-2 CENTIMETER. THE STATED VERTICAL ACCURACY IS 2-3 CENTIMETER.
- SFWM ERP PERMIT 36-00759-S REQUIREMENT AND DETAILS
-MINIMUM FINISHED FLOOR ELEVATION = 11.0' (NGVD29)=9.83'(NAV88)
-MINIMUM ROAD CROWN ELEVATION = 9.5'(NGVD29) = 8.3'(NAV88)
-MASTER STORMWATER SYSTEM CONTROL ELEVATION = 8.8'(NGVD29)=5.63'(NAV88)
-MINIMUM BERM ELEVATION=10.05'(NGVD29) =8.88'(NAV88)
- MASTER STORMWATER SYSTEMS SINGLE POINT OF DISCHARGE IS LOCATED IN THE SOUTHWESTERN CORNER OF THE DEVELOPMENT AND IS CONNECTED TO THE FORMER I.D.D. CANAL.
- THE PERMITTED 25-YEAR, 72-HOUR ALLOWABLE DISCHARGE RATE FOR THE MASTER STORMWATER SYSTEM IS 5 CFS.
- NO SURFACE OR GROUNDWATER IMPACTS ARE ANTICIPATED AS A DIRECT RESULT FROM THE PROPOSED SITE IMPROVEMENTS.

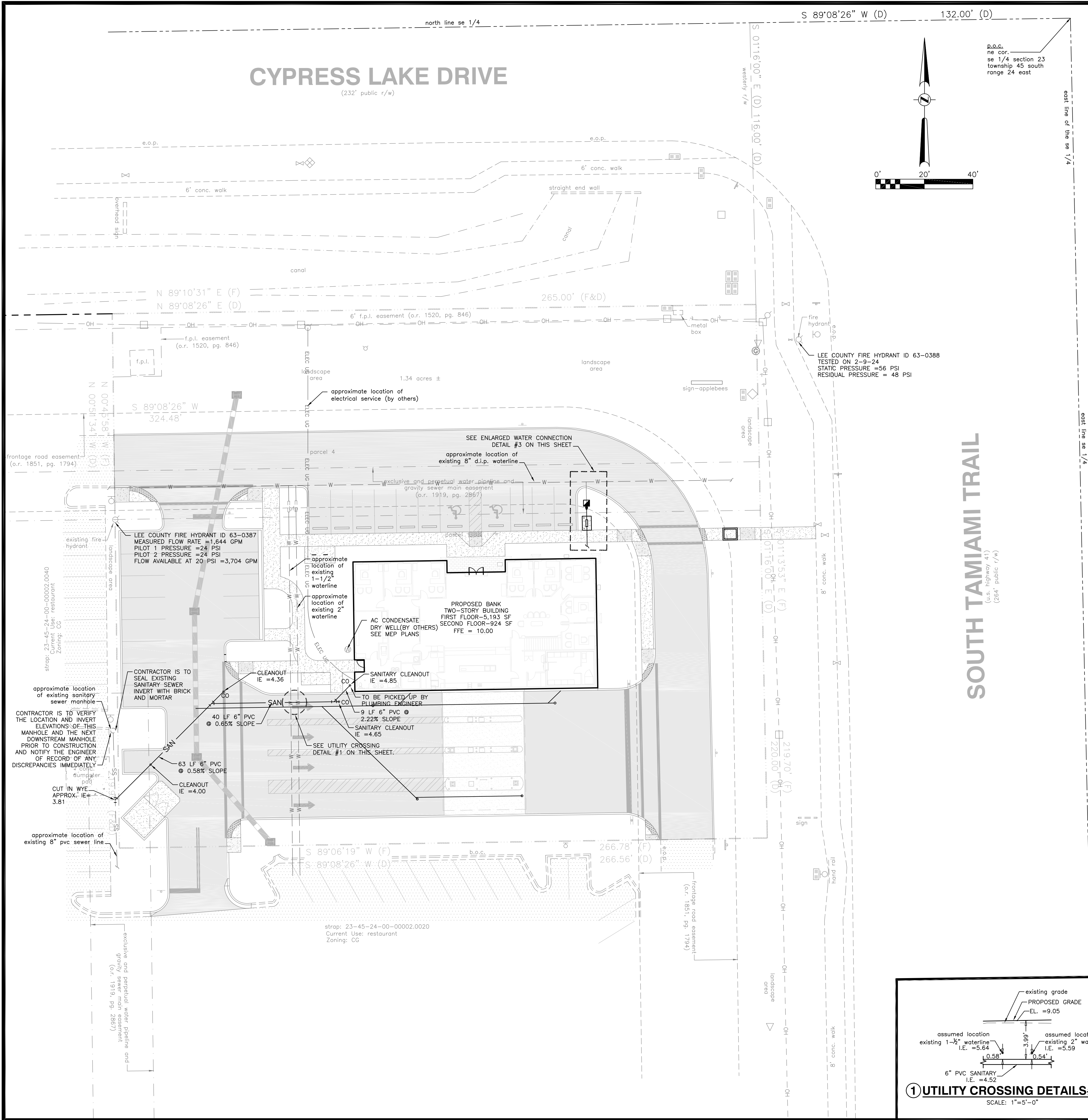
STORM STRUCTURE DATA

ST-#	DETAILS
ST-1	TYPE-C DITCH BOTTOM INLET FDOT INDEX NO. 425-052 TOP EL. =7.75 12"x18" HERCP I.E.(NW) =5.98
ST-2	TYPE-C DITCH BOTTOM INLET FDOT INDEX NO. 425-052 TOP EL. =8.35 12"x18" HERCP I.E.(SE) =5.88 12"x18" HERCP I.E.(N) =5.88
ST-3	TYPE-C DITCH BOTTOM INLET FDOT INDEX NO. 425-052 TOP EL. =8.35 12"x18" HERCP I.E.(S) =5.64 12"x18" HERCP I.E.(N) =5.64
ST-4	TYPE-C DITCH BOTTOM INLET FDOT INDEX NO. 425-052 TOP EL. =7.40 12"x18" HERCP I.E.(S) =5.28

VERTICAL DATUM CONVERSION

NAV88 = NGVD29 - 1.175 FT





UTILITY NOTES

- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND ADVISE THE ENGINEER OF ANY CONFLICTS IMMEDIATELY.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WATER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- CONTRACTOR SHALL NOTIFY AND COORDINATE SEWER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL POWER SERVICE WITH LOCAL ELECTRIC COMPANY.
- CONTRACTOR TO INSTALL PVC CONDUIT FOR TELEPHONE SERVICE (TO PROPERTY LINE) AND COORDINATE INSTALLATION OF SERVICE WITH VERIZON TELEPHONE OPERATIONS.
- SEE SITE BOUNDARY AND TOPOGRAPHIC SURVEY FOR LOCATION OF OTHER EXISTING UTILITIES.
- SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY NOTES.
- ALL SANITARY SEWER CLEANOUTS LOCATED WITHIN VEHICLE USE AREAS ARE TO HAVE HEAVY TRAFFIC RATED FRAMES AND COVERS.
- CONTRACTOR IS TO INSTALL TWO (2) TWO-INCH POLYETHYLENE CONDUITS FROM THE NEAREST FIBER OPTIC PEDESTAL TO THE BUILDING. INDIVIDUAL RUNS SHALL BE NO LONGER THAN 300 FEET.
- CONTRACTOR IS TO INSTALL TWO CONSTRUCTION FAUCETS ON THE NEAREST HYDRANT.
- POTABLE WATER LINE PIPING FROM THE BACKFLOW TO THE BUILDING SHALL BE POLYETHYLENE AND SHALL TERMINATE 5 FEET FROM THE BUILDING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING BACKFLOW CERTIFICATION FOR ALL NEWLY INSTALLED BACKFLOW PREVENTION DEVICES.
- AN IRRIGATION WELL WILL BE UTILIZED AS THE WATER SOURCE FOR THE IRRIGATION NEEDS OF ALL PROPOSED LANDSCAPING.

FIRE PROTECTION NOTE

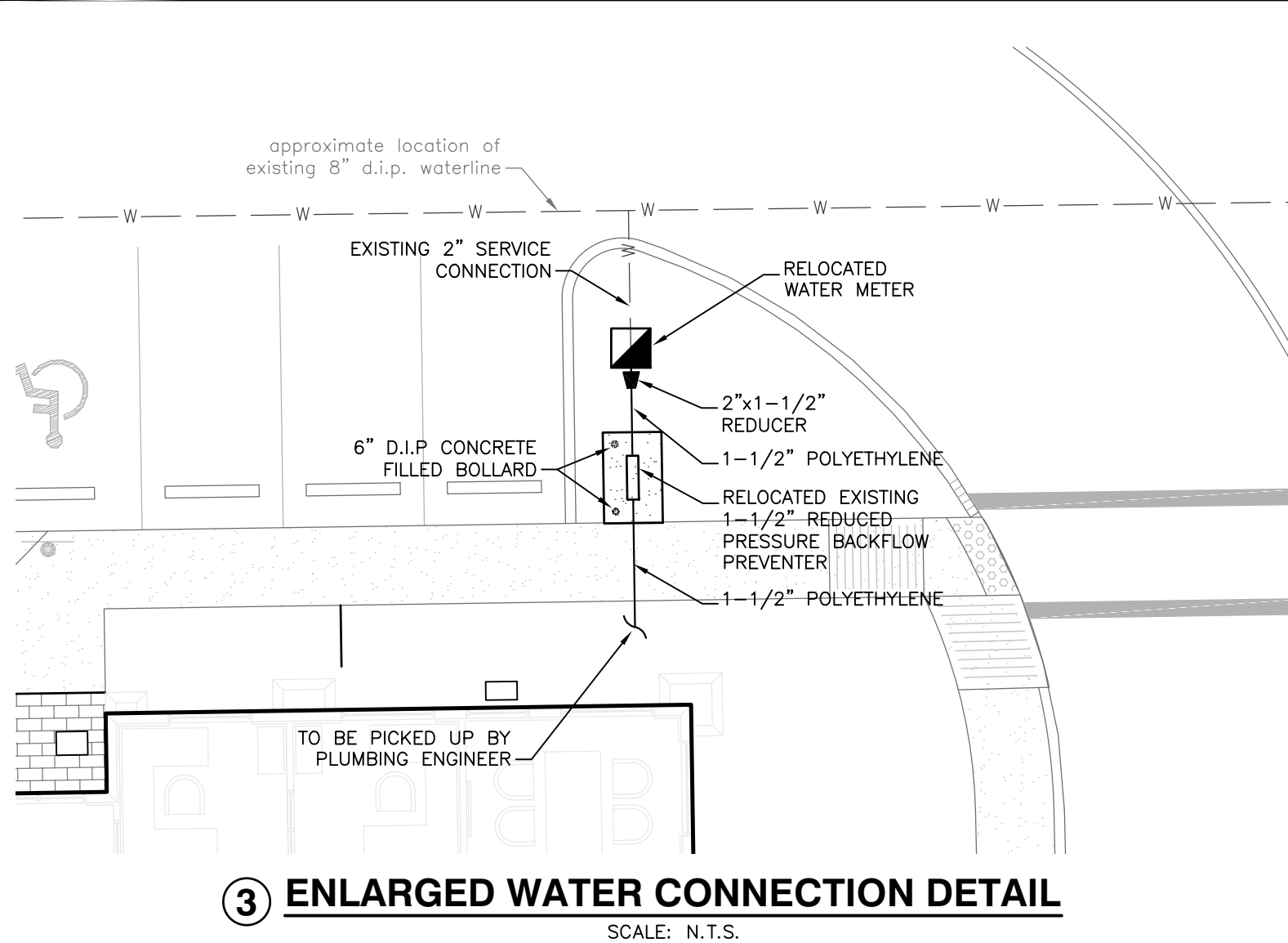
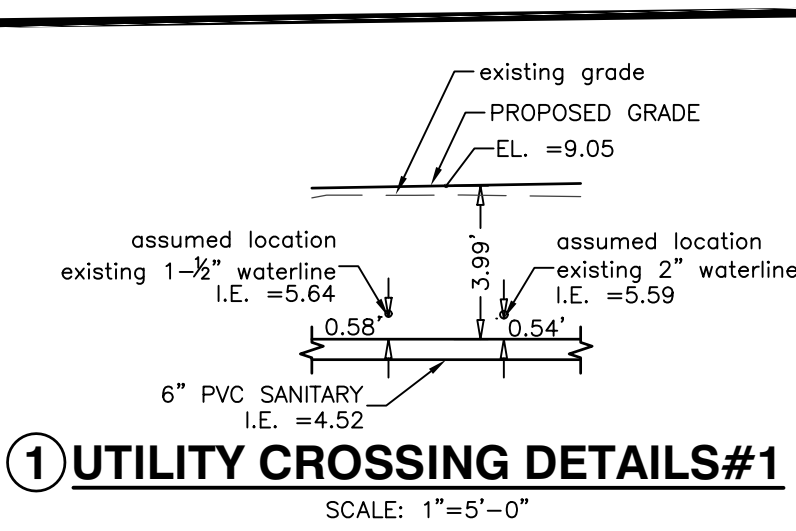
THERE IS AN EXISTING FIRE HYDRANT LOCATED ON THE WESTERN PROPERTY LINE APPROXIMATELY 85 FEET SOUTH OF THE NORTHWESTERN PROPERTY CORNER.

LEGEND

- | | | |
|--------------------------------------|----------------------|---------------------------|
| EXISTING GAS VALVE | SAN | PROPOSED SANITARY LINE |
| EXISTING AIR RELEASE VALVE | Water | PROPOSED WATER LINE |
| EXISTING POST-FIBER OPTICS | PROPOSED STORM SEWER | |
| EXISTING POST-GAS | W | EXISTING WATER MAIN |
| EXISTING TELEPHONE PEDESTAL | SS | EXISTING SANITARY MAIN |
| EXISTING WOOD POWER POLE | OH | EXISTING OVERHEAD WIRES |
| GUY ANCHOR | ELEC UG | EXISTING ELECTRIC SERVICE |
| EXISTING BOLLARD | | |
| EXISTING WIRE PULL BOX | | |
| EXISTING FIRE HYDRANT | | |
| EXISTING GATE VALVE | | |
| EXISTING CONCRETE UTILITY/POWER POLE | | |
| EXISTING WATER METER | | |
| EXISTING SANITARY MANHOLE | | |
| EXISTING BACKFLOW PREVENTOR | | |
| PROPOSED WATER METER | | |
| PROPOSED VALVE | | |
| PROPOSED REDUCER | | |
| PROPOSED BACKFLOW PREVENTOR | | |
| PROPOSED SANITARY SEWER CLEANOUT | | |

SANITARY STRUCTURE DATA

existing manhole
rim el. =8.58
8" pvc ie(s) =3.91
6" PVC IE(E) =4.05



B-BOGGS ENGINEERING, LLC
607 S. Alexander Street, Suite 101
Fort Myers, FL 33901
Phone: 813.427.2300
www.boggseng.com | info@boggseng.com
COA-25867

MIDFLORIDA CREDIT UNION
13550 SOUTH TAMiami TRAIL
FORT MYERS, FLORIDA 33912

STEVEN C. BOGGS
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 36410
THIS ITEM HAS BEEN
ELECTRONICALLY SIGNED
BY STEVEN C. BOGGS, P.E. ON
7/29/2024 USING SHA-1
COPIES OF THIS DOCUMENT ARE NOT
VALID UNLESS THEY INCLUDE THE
ELECTRONIC SIGNATURE AND THE
SHA-1 AUTHENTICATION
CODE ELECTRONIC CODE.

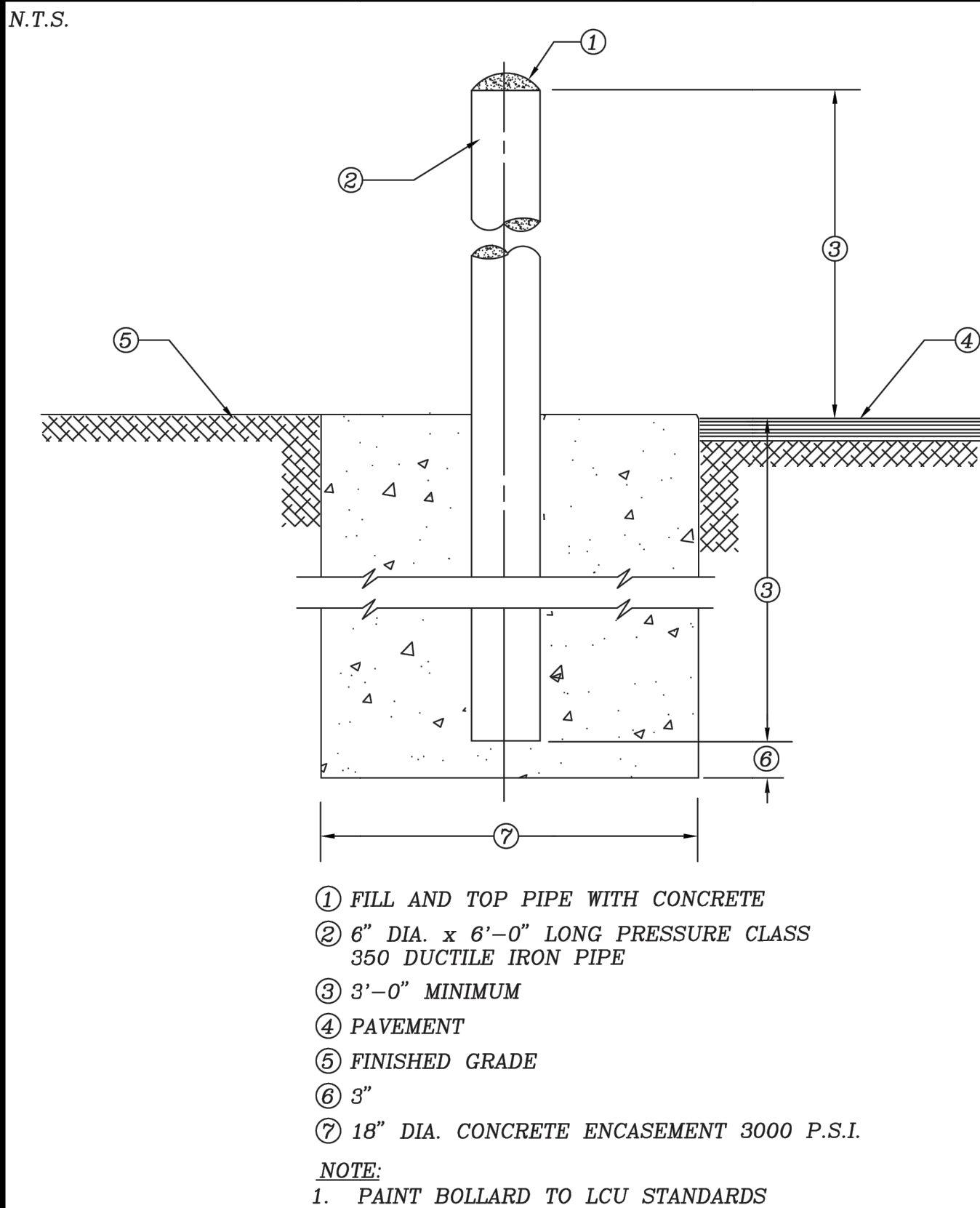
811 KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
www.callsunshine.com

DATE: 1/31/24
DESIGNED BY: PME
DRAWN BY: NB
CHECKED BY: SCB
PROJECT NO:
19250
DRAWING TITLE:

UTILITY PLAN

SHEET NO:
8.0

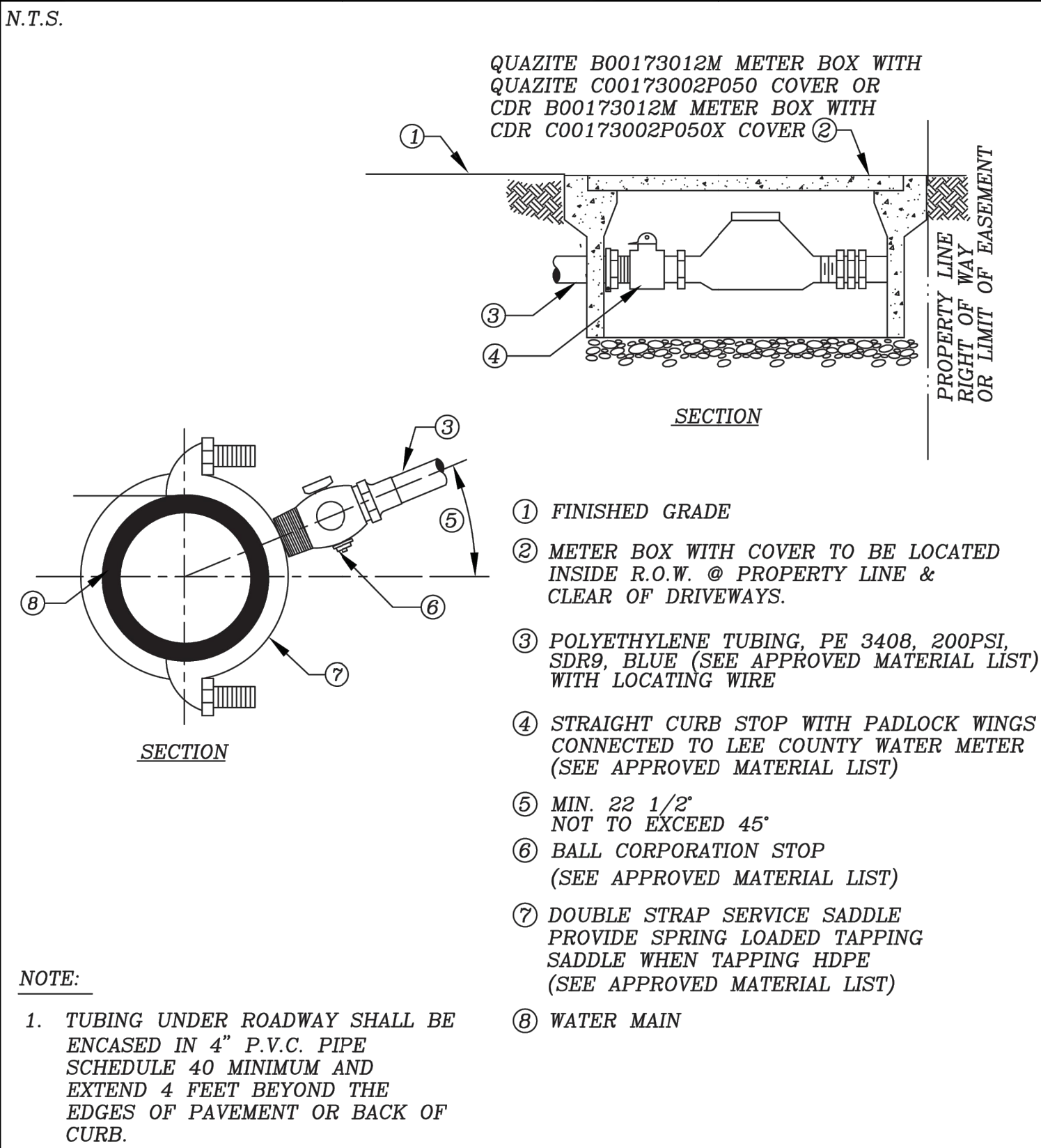
STANDARD DETAIL NO. 6.44
LEE COUNTY UTILITIES
BOLLARD POST DETAIL



REV: 12/10/2015

7

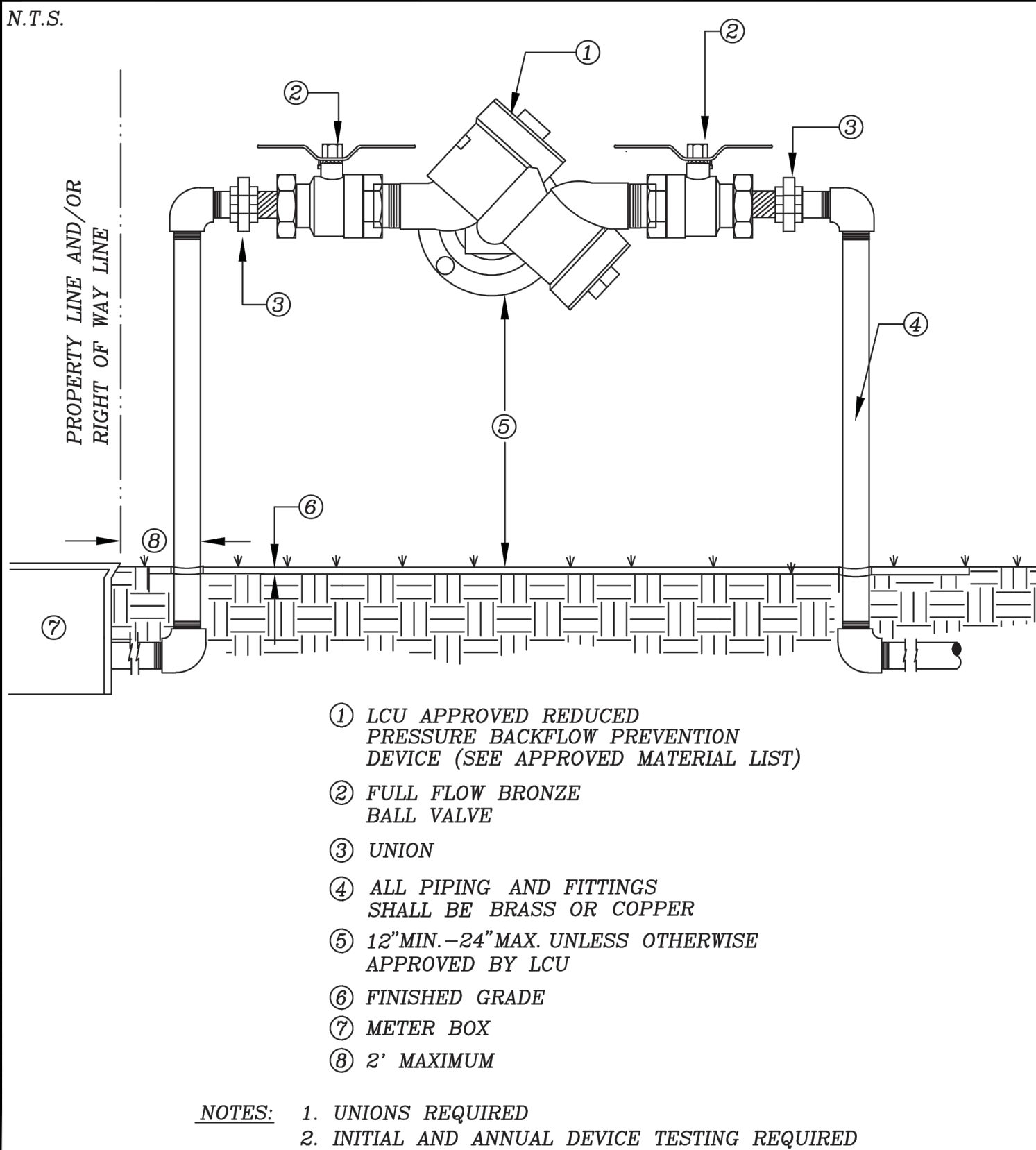
STANDARD DETAIL NO. 6.17
LEE COUNTY UTILITIES
WATER SERVICE INSTALLATION 1-1/2" THROUGH 2"



REV: 12/10/2015

5

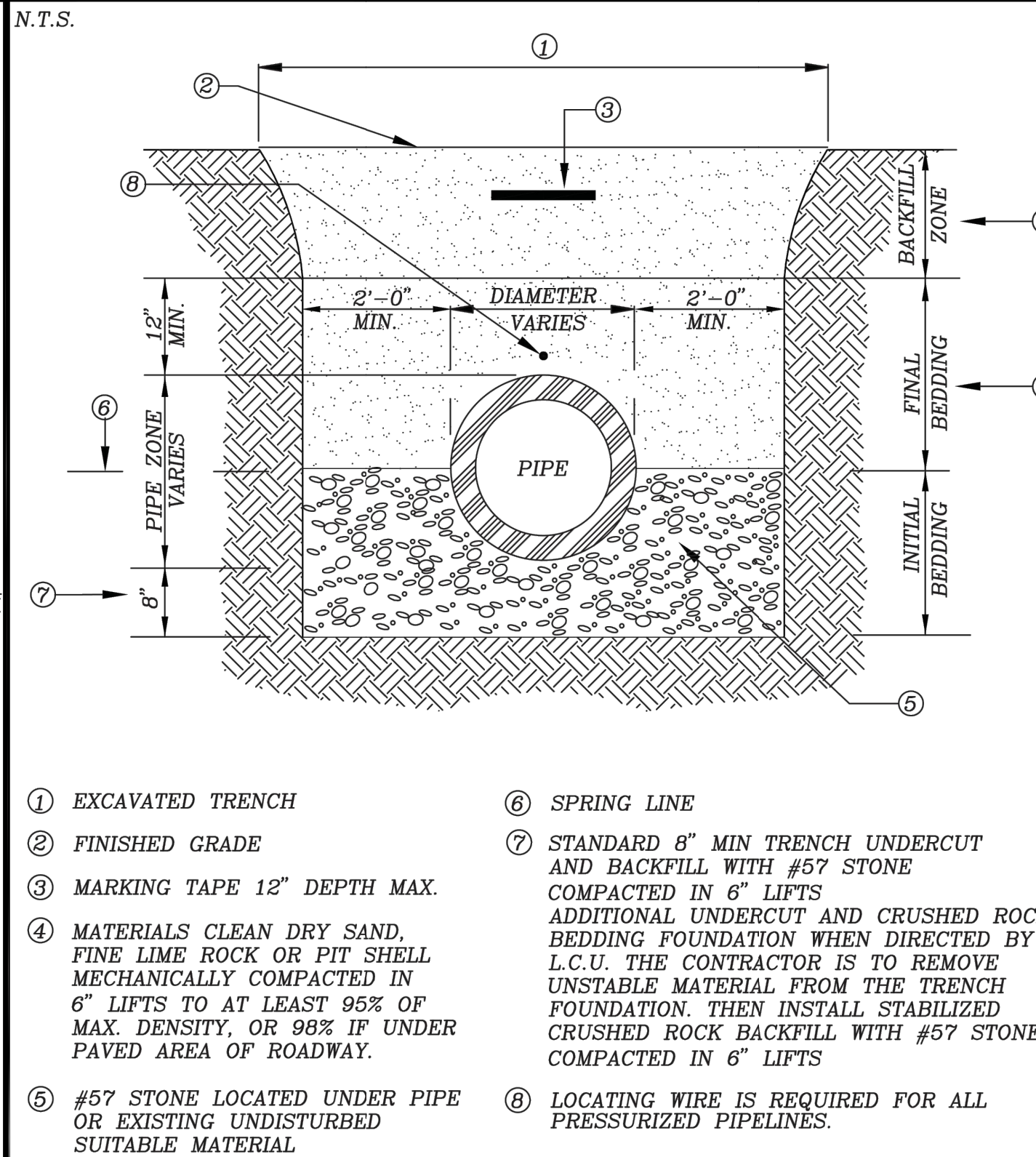
STANDARD DETAIL NO. 6.19
LEE COUNTY UTILITIES
3/4" TO 2" CROSS CONNECTION CONTROL ASSEMBLY



REV: 12/10/2015

4

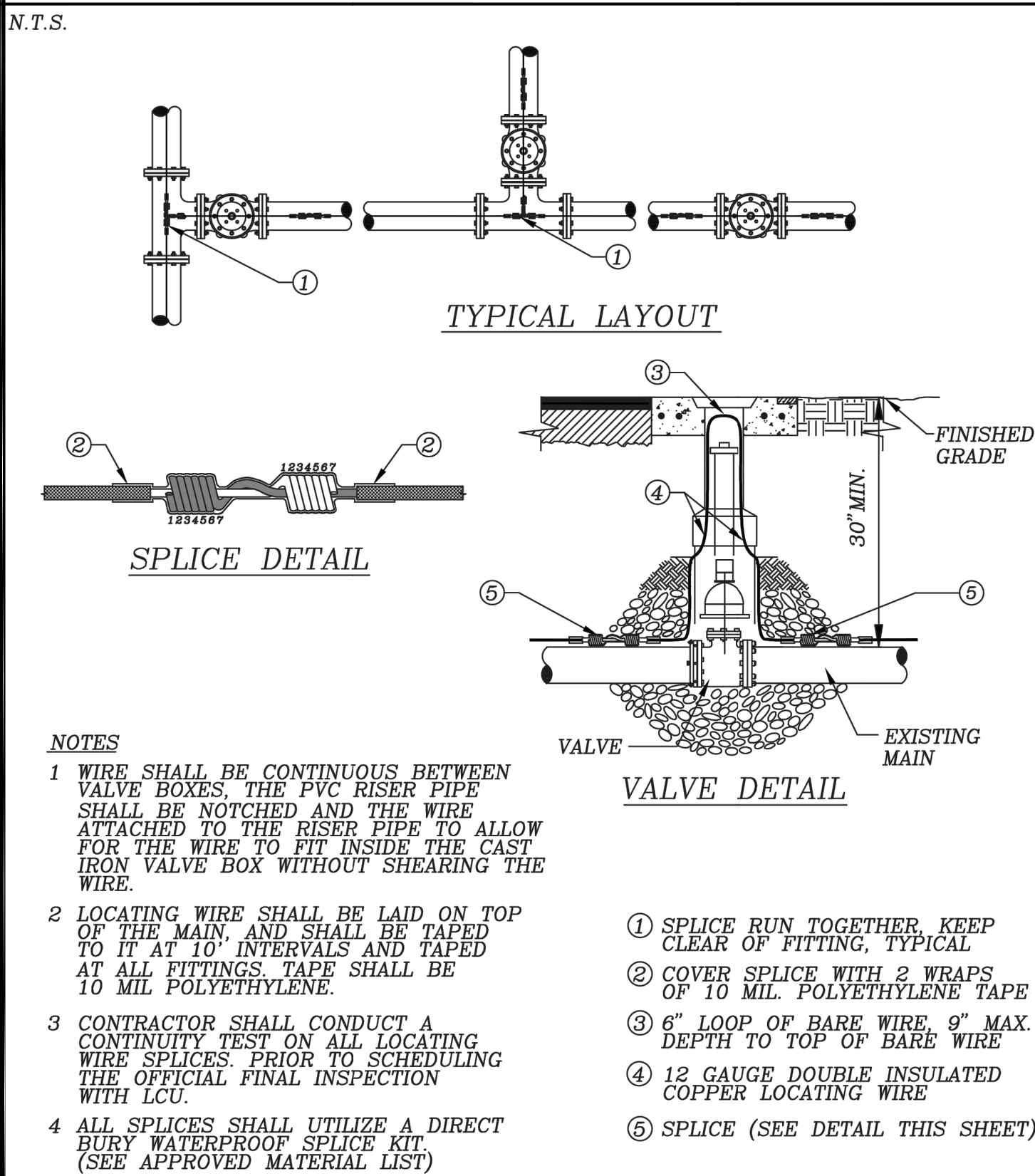
STANDARD DETAIL NO. 6.5
LEE COUNTY UTILITIES
TRENCH CROSS SECTION



REV: 12/10/2015

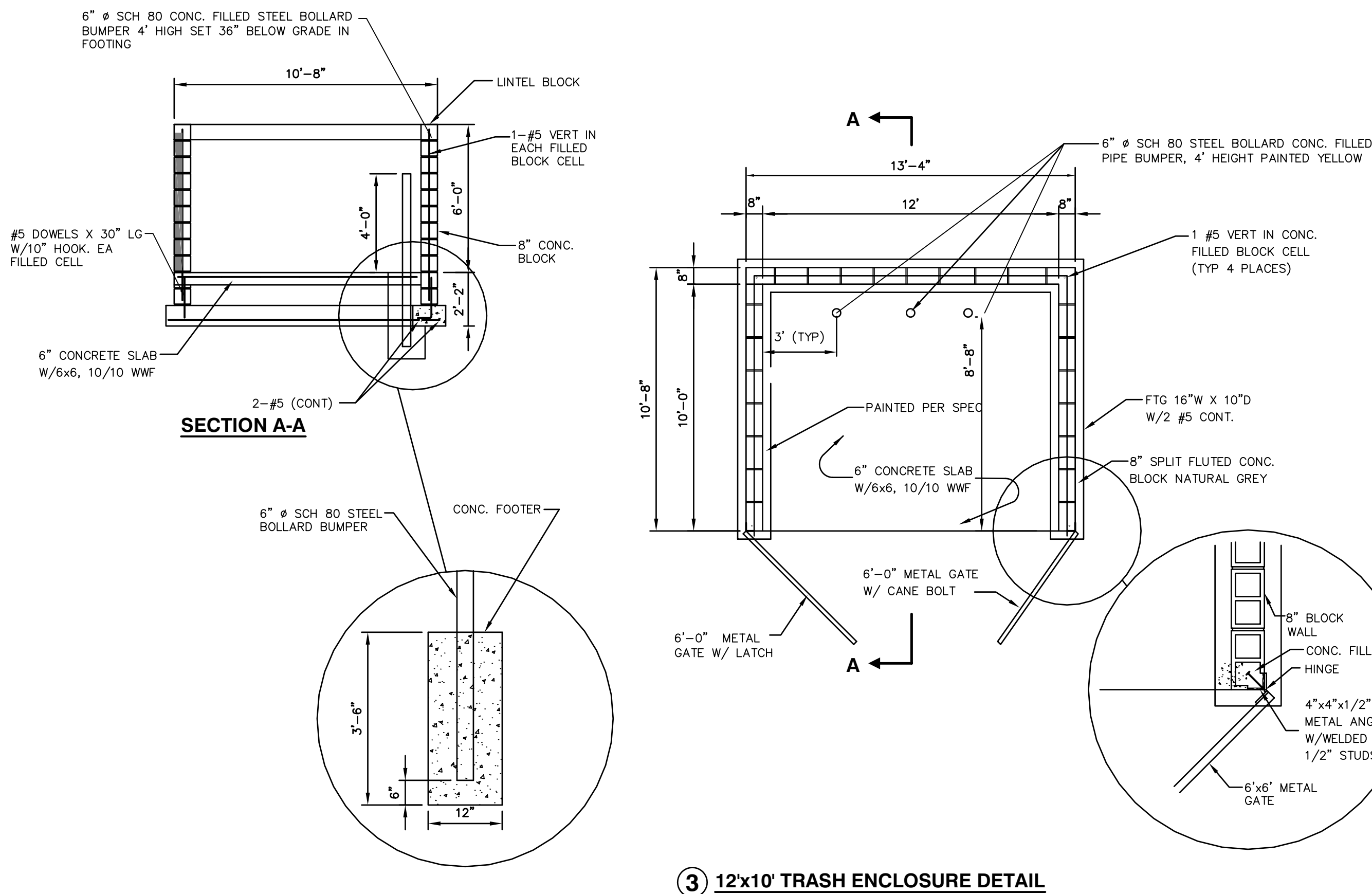
2

STANDARD DETAIL NO. 6.3
LEE COUNTY UTILITIES
LOCATING WIRE FOR PRESSURE MAINS



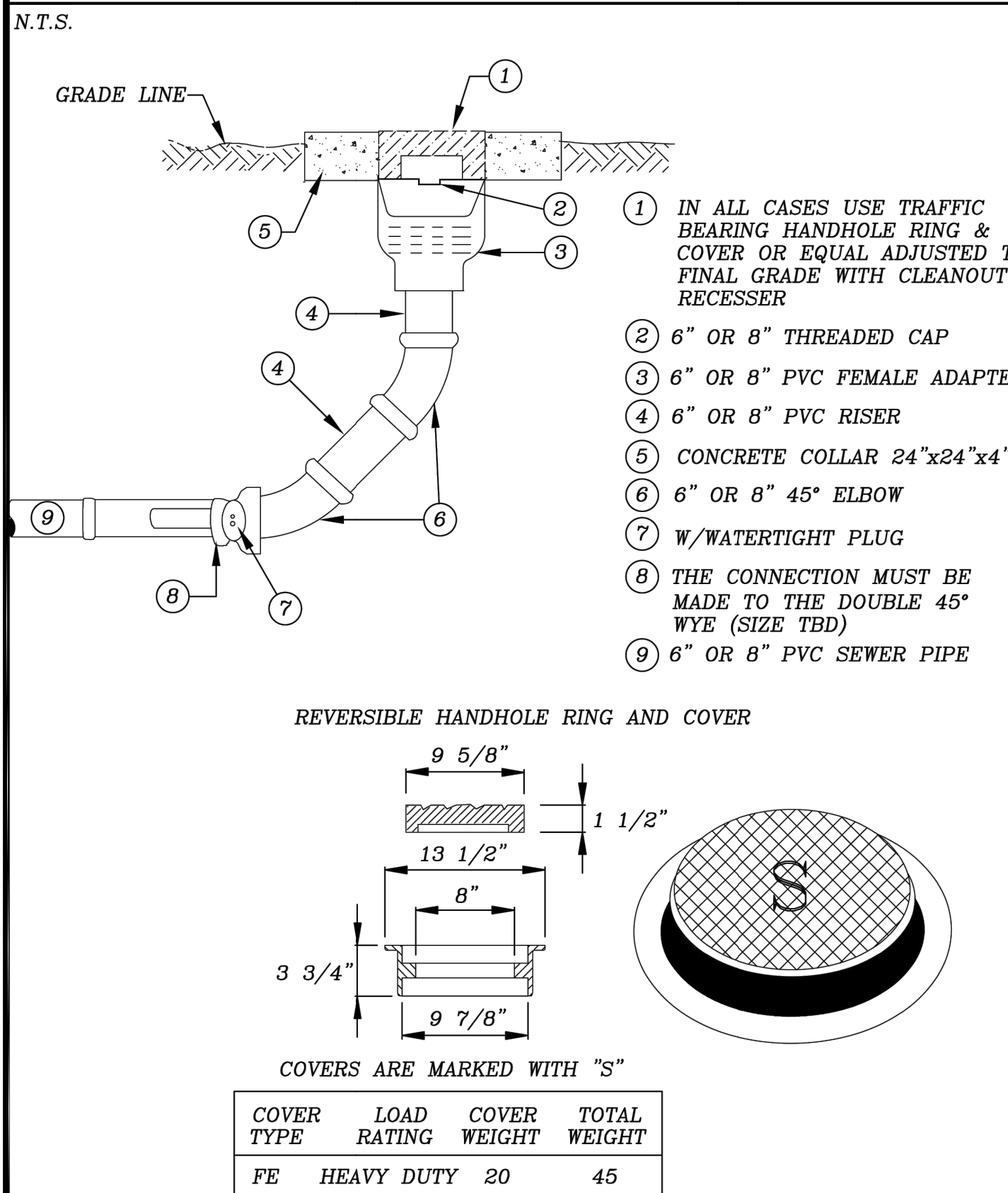
REV: 12/10/2015

6



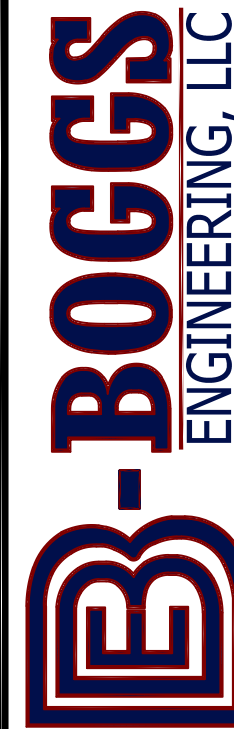
12'x10' TRASH ENCLOSURE DETAIL

STANDARD DETAIL NO. 6.40
LEE COUNTY UTILITIES
6" OR 8" SEWER CLEAN-OUT DETAIL



REV: 08/28/2019

1



MIDFLORIDA CREDIT UNION
13550 SOUTH TAMiami TRAIL
FORT MYERS, FLORIDA 33912

STEVEN C. BOGGS
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 58410

THIS ITEM HAS BEEN
ELECTRONICALLY SIGNED
BY STEVEN C. BOGGS, P.E. ON
7/29/2024 USING SHA-1
COPIES OF THIS DOCUMENT ARE NOT
VALID UNLESS THEY INCLUDE
THE SHA-1 AUTHENTICATION
CODE AND THE SIGNATURE

811
KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

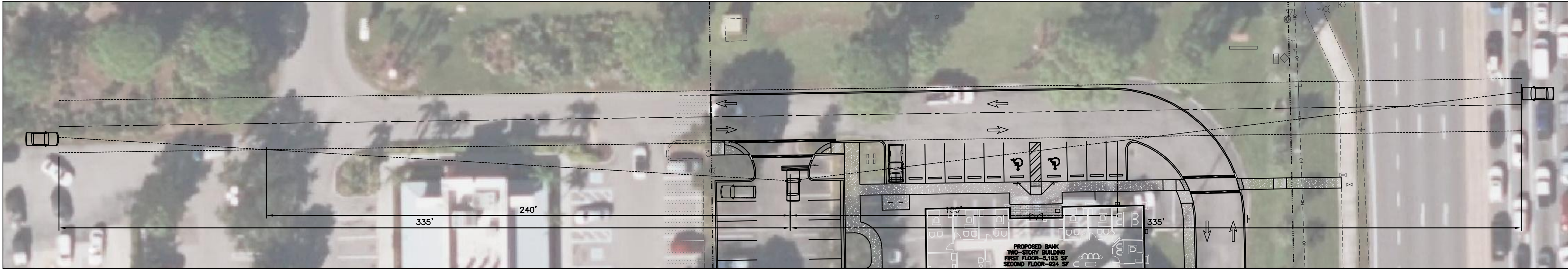
www.callsunshine.com

DATE: 7/28/23
DESIGNED BY: PME
DRAWN BY: NB
CHECKED BY: SCB

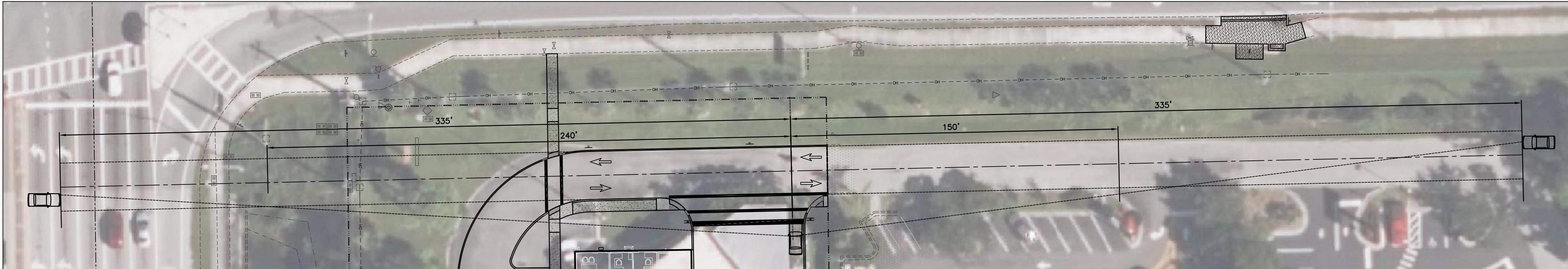
PROJECT NO:
19250
DRAWING TITLE:

WATER &
SEWER
DETAILS

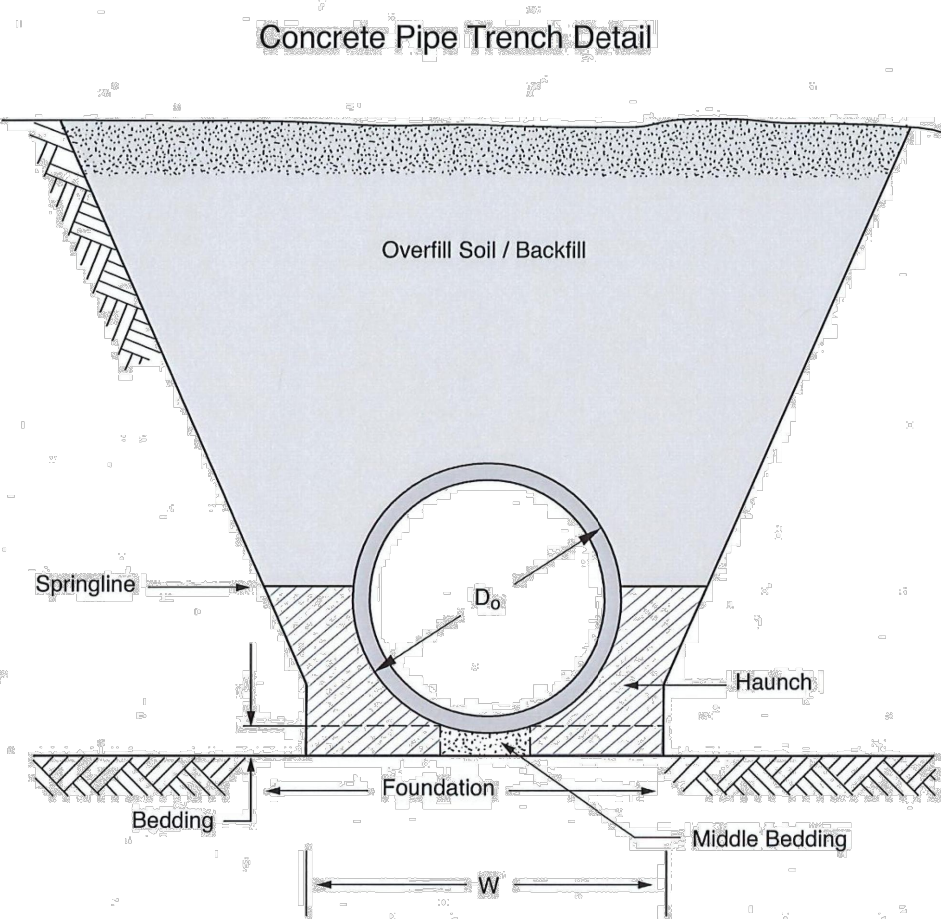
SHEET NO:
9.0



⑥ SIGHT TRIANGLE 1 E-W
SCALE: N.T.S.



⑤ SIGHT TRIANGLE 2 N-S
SCALE: N.T.S.



Concrete Pipe Installation Specifications:

1. RCP shall be ASTM C76 Class III, unless otherwise shown in plans.
2. Foundation shall be stiff to hard in-situ soil, stabilized soil, or compacted fill material.
3. Minimum trench width (W), if not using trench box, shall be $D_p + 24$ in. or $1.33(D_p)$, whichever greater.
4. Bedding thickness shall be $D_p/24$ inches, not less than 3 inches. Middle bedding shall be loosely placed, uncompacted embedment material.
5. Under roadways and traffic bearing areas: Haunch and outer bedding to springline shall be A-1, A-2, A-3, or A-4 material compacted to 95% SPD.
6. Outside of roadways and in non-traffic areas: Haunch and outer bedding to springline shall be (a) A-1 or A-3 compacted to 85% SPD, (b) A-2 or A-4 compacted to 90% SPD, or (c) A-5 or A-6 compacted to 95% SPD.
7. Pipe haunch and outer bedding compaction shall be in 12 inch lifts and standard proctor density (SPD) to be per AASHTO T99 Method C.
8. Overfill / backfill materials and compaction shall be as required for embankment or surface condition bearing capacity (e.g., roadway, non-traffic area).
9. Contractor shall refer to site Geotech Report to determine availability of in-situ material for pipe embedment.
10. If final video inspection is required per local specifications, ASTM C1840 shall be used for evaluation.

④ CONCRETE PIPE TRENCH DETAIL
SCALE: N.T.S.

LEE COUNTY ③
PAVEMENT RESTORATION GUIDELINES

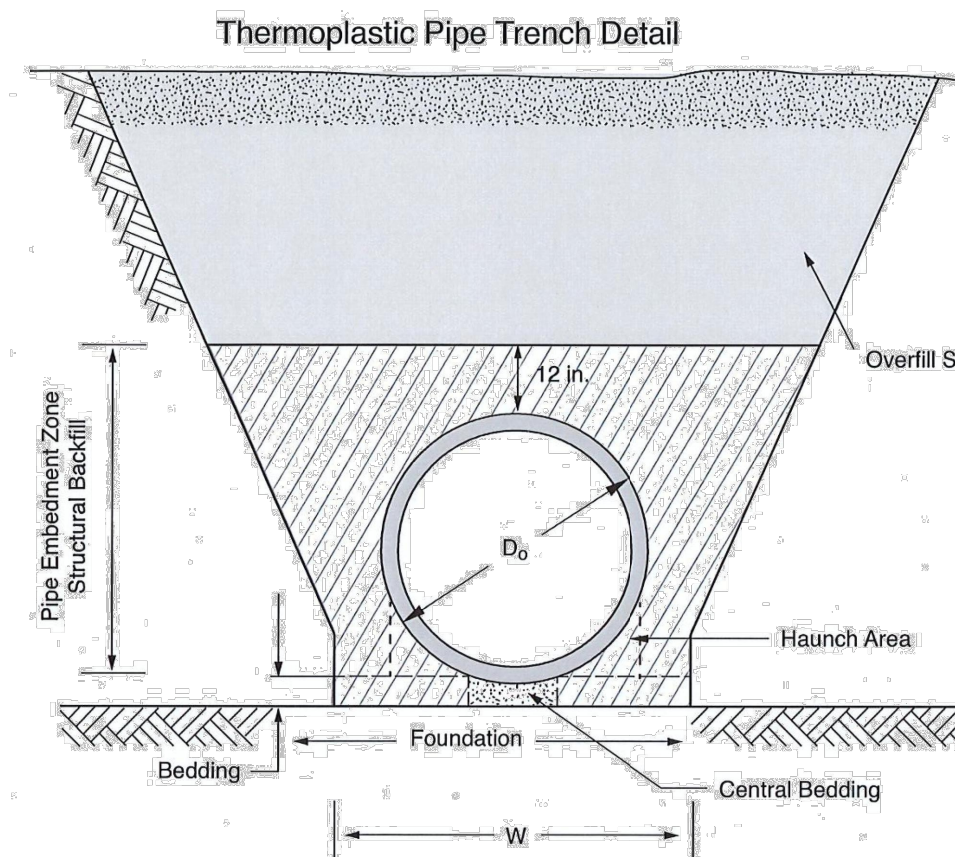
GENERAL NOTES:

1. Base and backfill material shall be the same type and composition as the materials removed or equal: Material of greater structural adequacy will also be permitted. Existing material removed during construction shall be permitted to be used as backfill provided that it has not been contaminated with deleterious material and provided that it is at least equal to minimum County standards.
2. Base material over excavated portion of ditch shall be at least twice the thickness as the original base material.
3. Base material shall be placed in layers not greater than 6" and each layer shall be tamped or rolled to obtain the minimum specified density.
4. Pavement joints shall be mechanically sawed and tacked prior to patching. Surface treatment joints shall be lapped and feathered.
5. Replacement pavement surface course shall be consistent with adjacent existing surface unless specified otherwise in the permit.
6. Top of underground cable or pipe shall be a minimum of 30" below the existing pavement, or the existing ground elevation where crossing ditches or swales unless otherwise approved by the County Engineer.
7. "As-built" drawings will not be required as long as the work as done is shown correctly on the permit issued for the work.
8. The County must be notified at least 24 hours prior to beginning work and within 24 hours after work is completed. This notification requirement is in addition to any calls for required inspections.

DENSITY REQUIREMENTS:

1. Backfill for Stages 1 and 2 and Base material shall be placed in layers not to exceed 6" (compacted thickness). Compaction shall be 100% of AASHTO T-00 (Standard Proctor) or 98% of AASHTO T-180 (Modified Proctor).
2. **Stage 1:** Provide compacted fill beneath and around the pipe or duct to the spring line elevation (midpoint of pipe or duct) using an appropriate tamping method suitable to the work and accepted by the County Engineer. If required by soil conditions, the Stage 1 bedding shall be placed on a layer of stone or gravel at least 5" thick.
3. **Stage 2:** Backfill shall continue in lifts to the top of the subgrade. Each lift shall be mechanically tamped to insure adequate compaction. The County Engineer may require density tests to confirm the achievement of minimum compaction requirements. Such testing, if necessary, shall be at the sole expense of the Permittee.
4. **Base Material:** Place base material and compact mechanically to achieve 98% of maximum density by AASHTO T-180 (Modified Proctor) under the existing or proposed roadway.

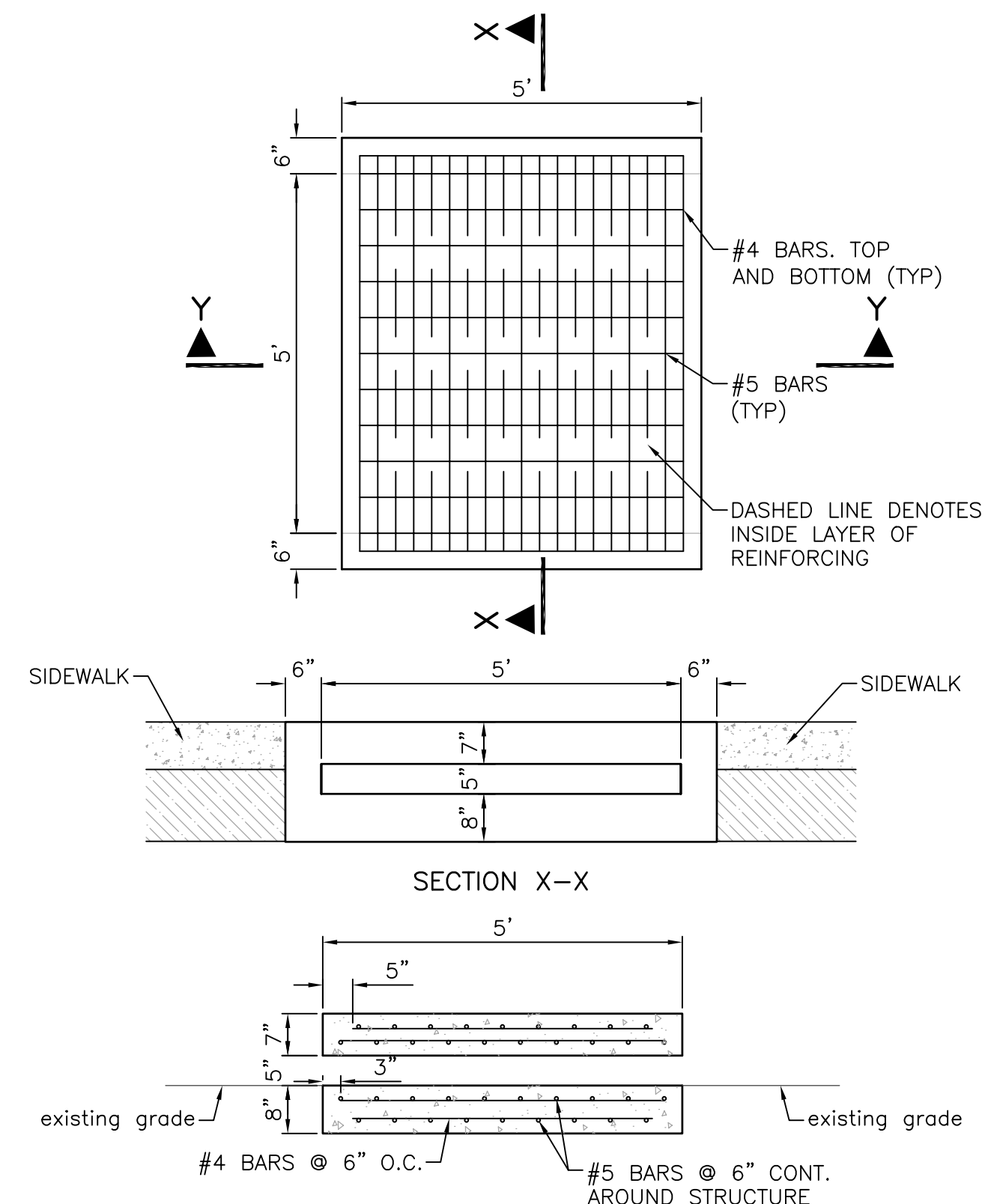
FORM B



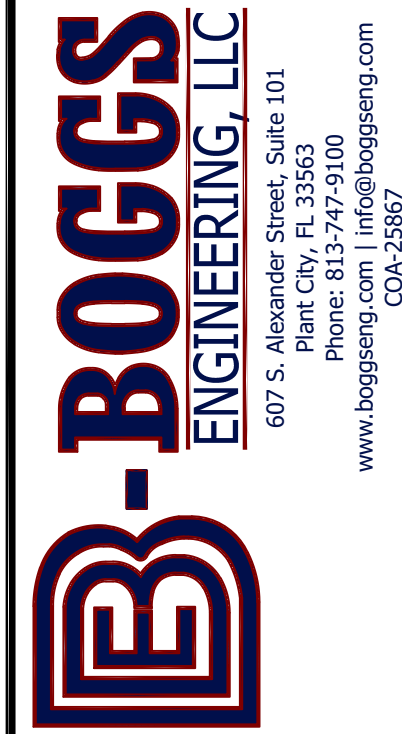
Thermoplastic Pipe Installation Specifications:

1. HDPE pipe shall meet AASHTO M234, and polypropylene (PP) pipe shall meet AASHTO M330. PP pipe in diameters 30 inches or larger shall be triple wall profile. All plastic pipe shall meet FDOT Section 948 and shall not contain recycled resin.
2. Minimum trench width, W, shall not be less than 1.5 times the pipe diameter (D_p) plus 12 inches. In embankments or in cases of poor native soils offering negligible lateral resistance (e.g., Blow Count, $N \leq 5$), then the trench width shall be 3 times the pipe diameter (D_p).
3. Provide a firm, stable, uniform bedding of 6 inches minimum thickness. The central bedding shall be loosely placed. If the trench bottom shows a "quick" tendency, notify the Engineer and excavate to a depth required by the Engineer and replace with crushed gravel, A-1, or A-3 material and place a geotextile between the foundation and bedding to prevent migration of fines.
4. Minimum cover from finished grade to pipe crown shall be at least 36 inches or one pipe diameter, whichever is greater.
5. Structural embedment shall be crushed gravel or A-1, A-2, or A-3 material compacted to 95% standard proctor density, AASHTO T-99 Method C.
6. Place backfill in layers not exceeding 8 inches loose lift thickness and brought up evenly on each side of the pipe to an elevation not less than 1 foot above the pipe.
7. Haunch material shall be tamped by hand, or "knifed," to ensure complete contact with the pipe bottom and to fill voids, before proceeding with remaining embedment.
8. Overfill/backfill materials and compaction shall be as required for embankment or surface condition bearing capacity (e.g., roadway, non-traffic area).
9. Contractor shall refer to site Geotech Report to determine conditions and suitability of in-situ materials. Resilient connections, per ASTM D2321 7.10, shall be used at all pipe connections to manholes and structures.
10. Pipe shall be video inspected and deflection tested using a mandrel or laser profiler no sooner than 30 days after placement of final backfill and structural pavement. All reports shall be provided to Engineer for review prior to final acceptance. Pipes deflected 5% or more shall be removed, replaced, and re-inspected.

② THERMOPLASTIC PIPE TRENCH DETAIL
SCALE: N.T.S.



① CLOSED FLUME DETAIL
SCALE: N.T.S.



MIDFLORIDA CREDIT UNION
13550 SOUTH TAMiami TRAIL
FORT MYERS, FLORIDA 33912

STEVEN C. BOGGS
STATUS OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 58410
THIS ITEM HAS BEEN
ELECTRONICALLY SIGNED
BY STEVEN C. BOGGS, P.E. ON
7/26/2024 USING SHA-1
AND THE SHA-1 AUTHENTICATION
CODE ELECTRONIC CODE



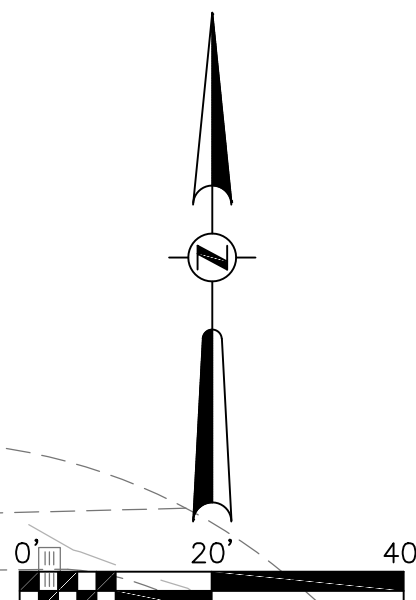
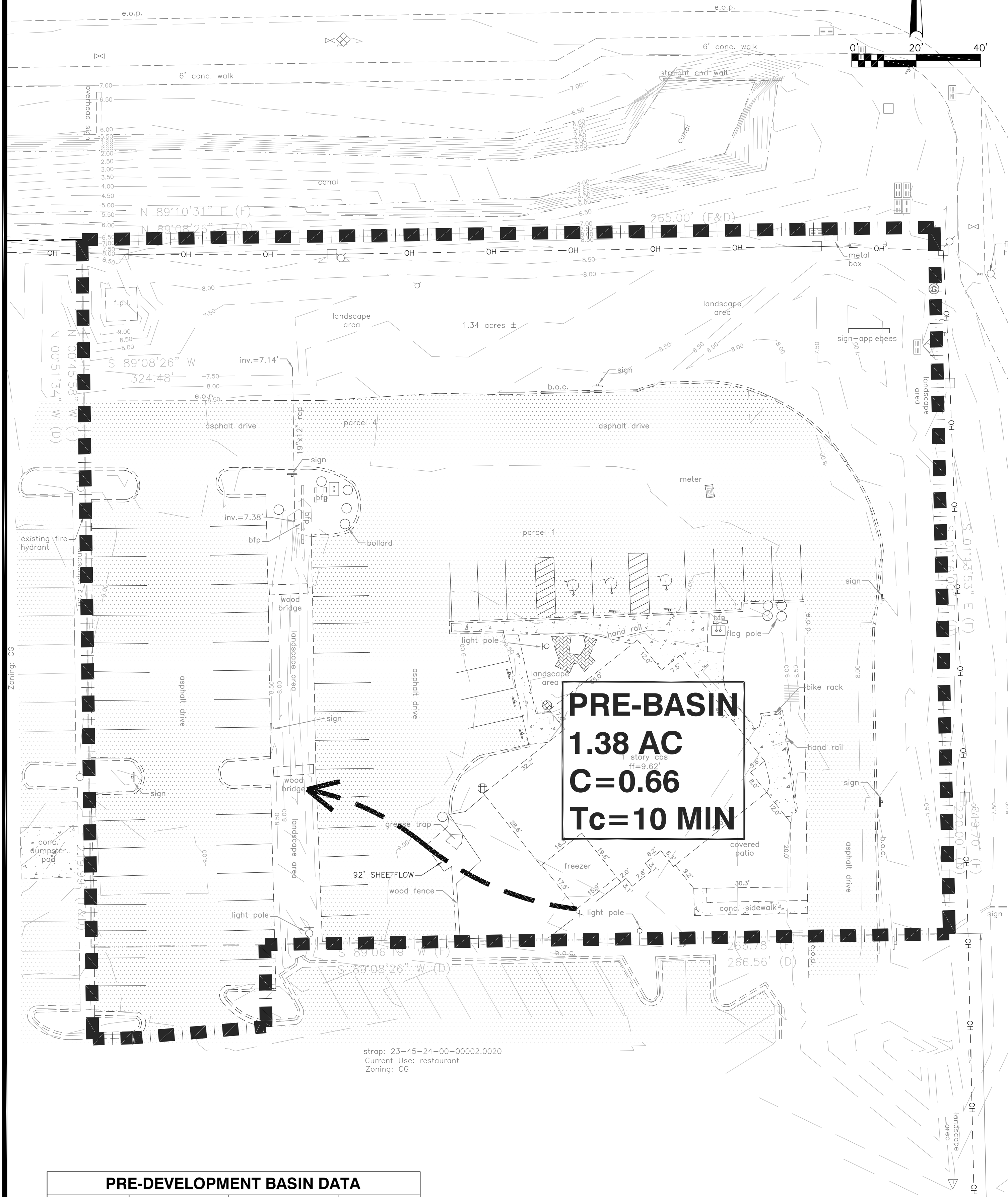
DATE: 1/26/24
DESIGNED BY: PME
DRAWN BY: NB
CHECKED BY: SCB
PROJECT NO:
19250
DRAWING TITLE:

CONSTRUCTION
DETAILS

SHEET NO:
9.2

CYPRESS LAKE DRIVE

(232' public r/w)

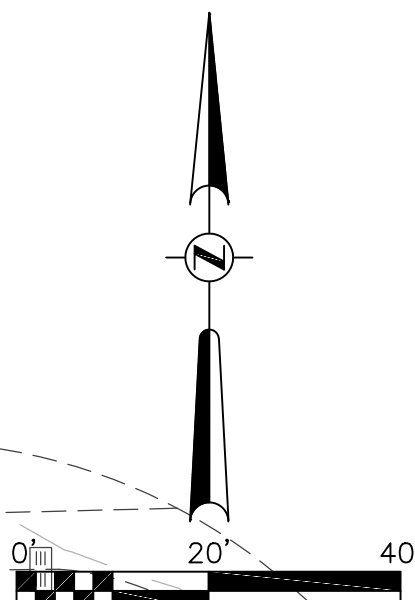
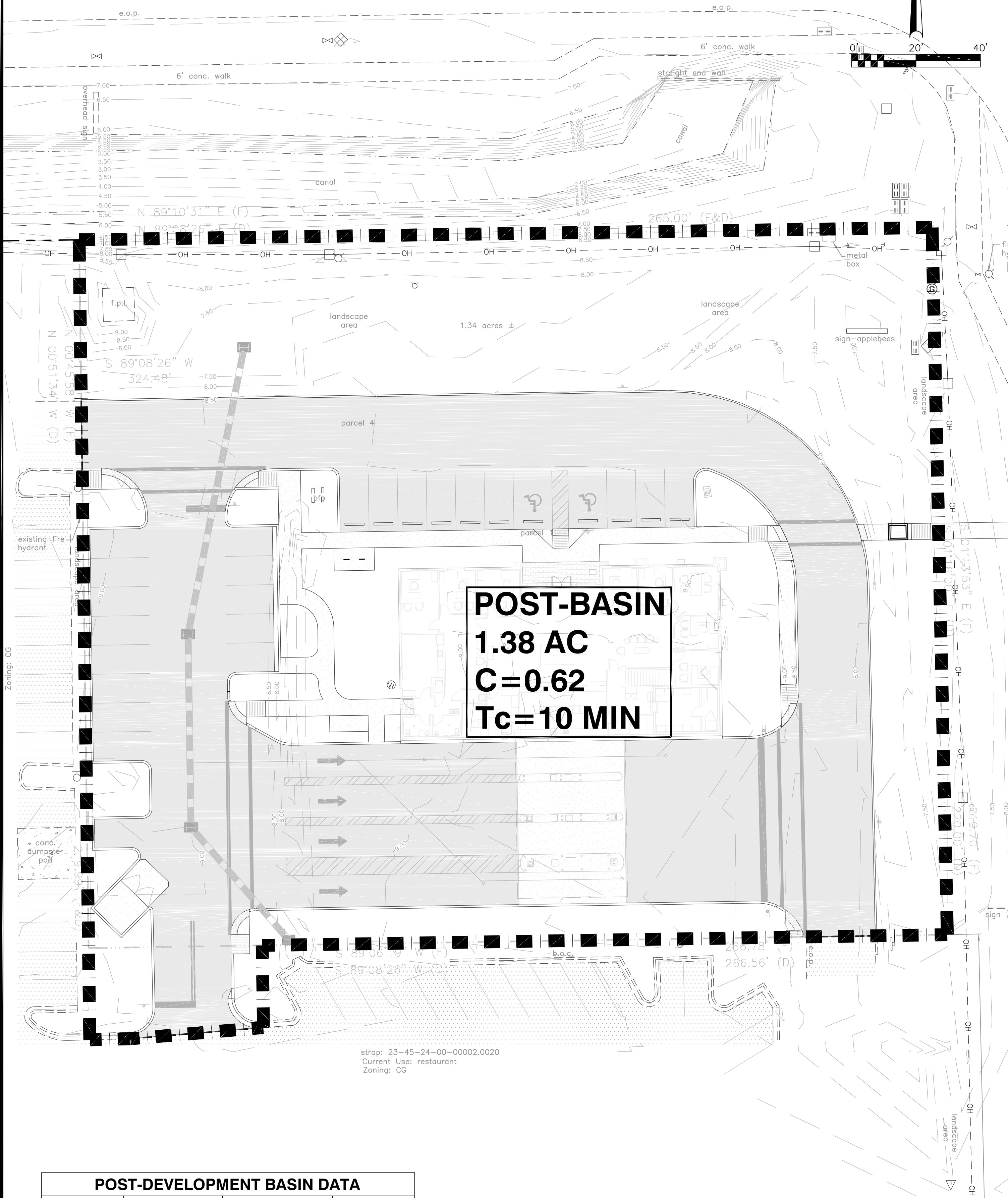


PRE-DEVELOPMENT BASIN DATA			
BASIN	PERVIOUS AREA (sf)	IMPERVIOUS AREA (sf)	BASIN AREA (sf)
PRE-BASIN	23,197	36,732	59,929

TIME OF CONCENTRATION	---
BASIN BOUNDARY	---

CYPRESS LAKE DRIVE

(232' public r/w)



POST-DEVELOPMENT BASIN DATA			
BASIN	PERVIOUS AREA (sf)	IMPERVIOUS AREA (sf)	BASIN AREA (sf)
POST-BASIN	25,052	34,877	59,929

TIME OF CONCENTRATION	---
BASIN BOUNDARY	---



MIDFLORIDA CREDIT UNION
13550 SOUTH TAMiami TRAIL
FORT MYERS, FLORIDA 33912

STEVEN C. BOGGS
STATUS OF FLO. REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 36410
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED BY STEVEN C. BOGGS, P.E. ON 7/31/24 USING SHA-1. COPIES OF THIS DOCUMENT ARE NOT VALID UNLESS THEY INCLUDE THE SHA-1 AUTHENTICATION AND THE SHA-1 AUTHENTICATION CODE ELECTRONIC CODE.



DATE: 1/31/24
DESIGNED BY: PME
DRAWN BY: NB
CHECKED BY: SCB
PROJECT NO:
19250
DRAWING TITLE:

BASIN
PLANS
SHEET NO:
10.0