

PRELIMINARY CONSTRUCTION PLANS  
FOR  
**GORDY CREEK**  
**PLANNED DEVELOPMENT**  
**SUBDIVISION**

GORDY ROAD  
FORT PIERCE, FL 34945  
CITY OF FORT PIERCE, FLORIDA  
OCTOBER 2024

**OWNER**  
ZENTEX VENTURES LTD  
44 COCONUT ROW, UNIT B-22  
PALM BEACH, FL 33480

**APPLICANT**  
GORDY CREEK, LLC  
1548 SE 6TH STREET  
DEERFIELD BEACH, FL 33441

**ENGINEER/AGENT**

*Mills, Short & Associates*

700 22ND PLACE, STE. 2C/2D  
VERO BEACH, FLORIDA 32960  
PHONE: 772.226.7282

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**LEGAL DESCRIPTION:**

Parcel ID's: 2326-130-0000-000-7  
2326-130-0000-010-3

LANDS SITUATE IN SECTION 26, TOWNSHIP 35 SOUTH, RANGE 39 EAST, ST. LUCIE COUNTY, FLORIDA, AS FOLLOWS:

**PARCEL 1**

BEGINNING ON THE QUARTER SECTION LINE 64 FEET WEST OF THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 26, TOWNSHIP 35 SOUTH, RANGE 39 EAST; RUN THENCE NORTH 11 DEGREES 35 MINUTES WEST 418 FEET TO CENTER OF GULLY; THENCE FOLLOWING CENTER OF GULLY TO QUARTER SECTION LINE AT A POINT 334.6 FEET WEST OF POINT OF BEGINNING, THENCE EAST 334.6 FEET TO POINT OF BEGINNING.

AND

BEGINNING AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 26, TOWNSHIP 35 SOUTH, RANGE 39 EAST; RUN THENCE SOUTH 110.5 FEET; THENCE TURNING EASTERLY AT AN ANGLE OF 122 DEGREES 57 MINUTES TO THE FOREGOING LINE AND RUN 199.8 FEET; THENCE TURN NORTHERLY AT AN ANGLE OF 140 DEGREES 13 MINUTES AND RUN 300 FEET; THENCE RUN NORTHERLY AT AN ANGLE OF 82 DEGREES 42 MINUTES AND RUN 186 FEET TO THE QUARTER SECTION LINE; THENCE ALONG THE QUARTER SECTION LINE 422.8 FEET TO THE POINT OF BEGINNING.

AND

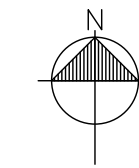
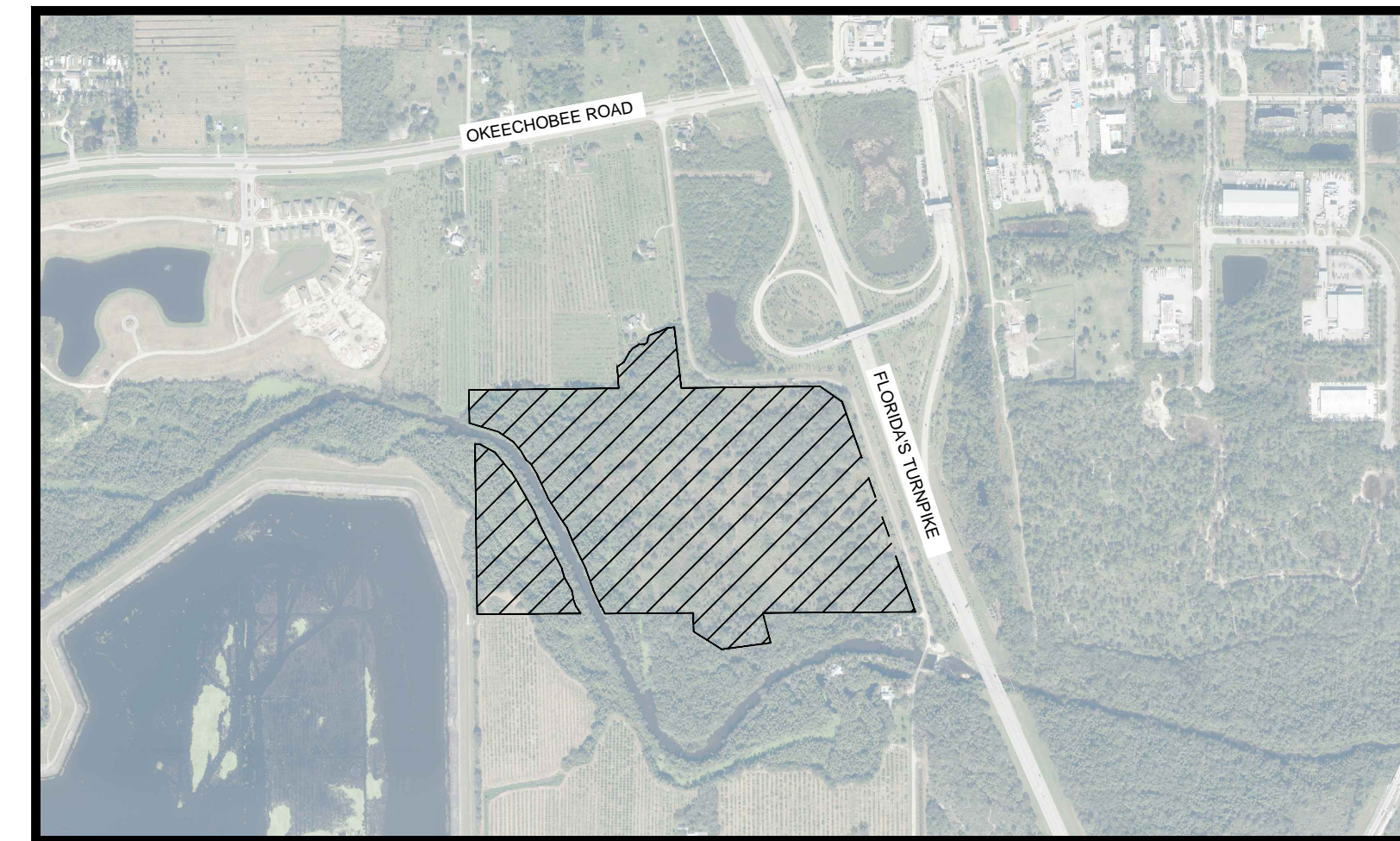
THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 26, TOWNSHIP 35 SOUTH, RANGE 39 EAST.  
AND

**PARCEL 2**

BEGIN 64 WEST OF THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 26, TOWNSHIP 35 SOUTH, RANGE 39 EAST; RUN NORTH 5 DEGREES 45 MINUTES 11 SECONDS WEST 378.88 FEET ALONG THE WEST LINE OF GORDY ROAD TO CENTER OF GULLY; THENCE FOLLOW THE CENTER OF THE GULLY TO A POINT ON THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE EAST 365.78 FEET TO THE POINT OF BEGINNING.

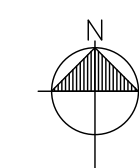
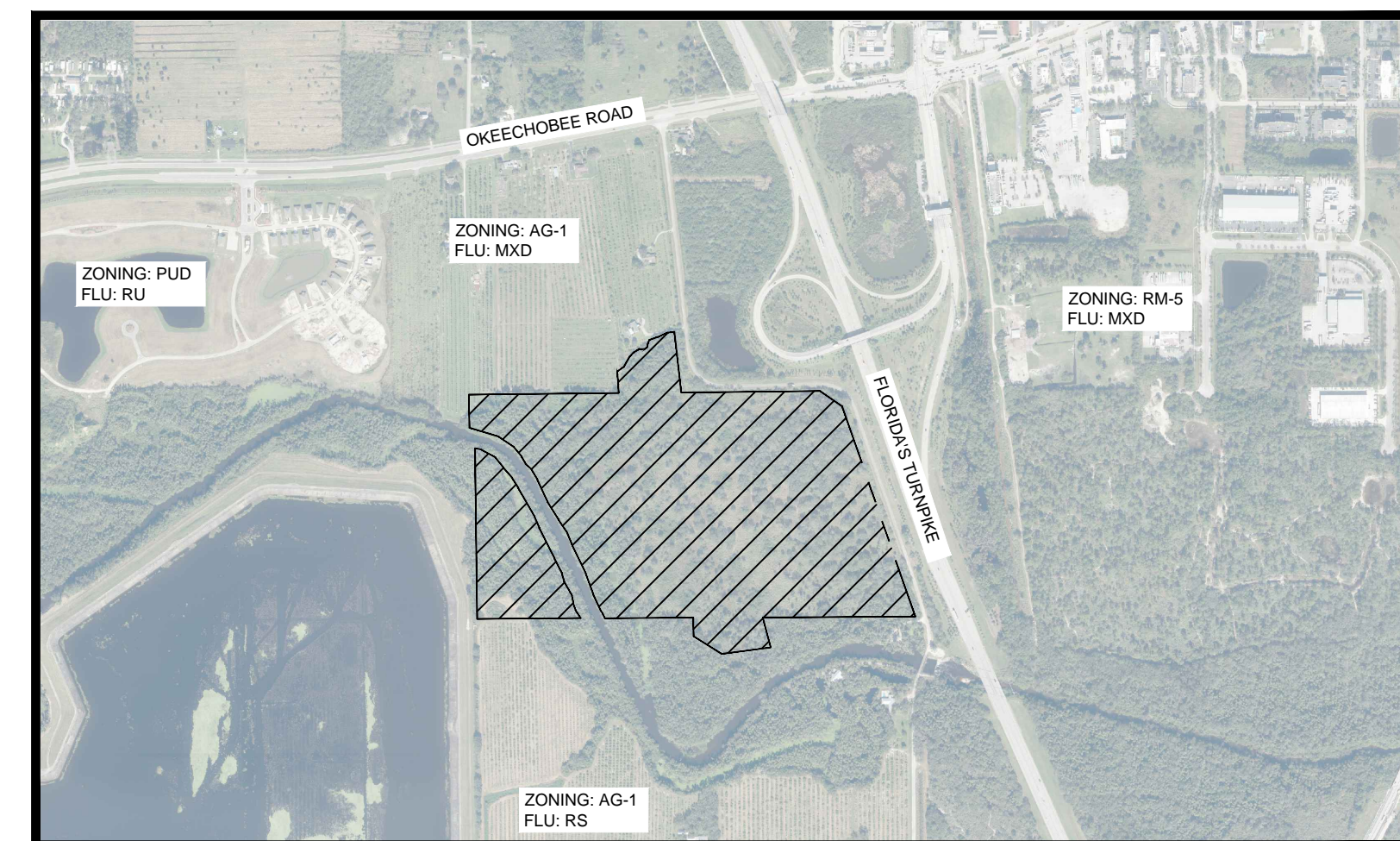
EXCEPTING THEREFROM ALL RIGHTS OF WAY FOR PUBLIC ROADS AND CANALS.

PARCELS CONTAINING A TOTAL OF 3,309,736.76 SQUARE FEET (75.981 ACRES) MORE OR LESS.



**LOCATION MAP**

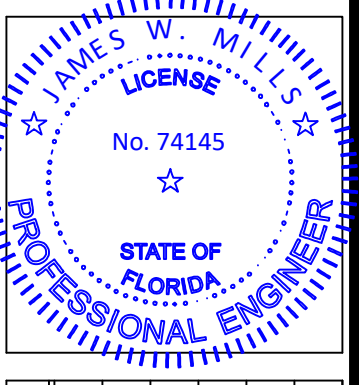
SCALE: N.T.S



**VICINITY MAP**

SCALE: N.T.S

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ISSUE	DATE	COMMENTS

<b>GORDY CREEK RESIDENTIAL</b> CITY OF FORT PIERCE FLORIDA 34945 THIS SHEET TITLE SHEET DRAWN BY KKR	CHECKED BY JWM	APPROVED BY JWM	SCALE: SEE SHEET

PROJ. NO.	24-170
DATE	2024.09.24
SHEET NO.	

**G-1**

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL RELATIVE CITY OF FORT PIERCE ENGINEERING STANDARDS FOR LAND DEVELOPMENT AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND FDEP REGULATIONS, EXCEPT AS MODIFIED HEREIN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, NOC'S AND INSURANCE REQUIRED FOR THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION OF THE SITE PRIOR TO THE BEGINNING OF THE WORK. CONTRACTOR SHALL INFORM THE OWNER, COMPANY REPRESENTATIVE, CEC, UTILITY AUTHORITY AND INTERESTED AGENCIES AT LEAST 48 HOURS PRIOR TO THE SCHEDULED INSPECTION.
- THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE FROM THE SURVEY PROVIDED BY GSS SURVEYING AND MAPPING, LLC ON AUGUST 18, 2023. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM, IN THE FIELD, THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.
- CONTRACTOR SHALL LOCATE, VERIFY AND IDENTIFY ALL EXISTING UNDERGROUND UTILITIES SHOWN, OR NOT SHOWN, ON THE PLANS PRIOR TO ANY EXCAVATING ACTIVITIES.
- CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEWLY CONSTRUCTED UTILITIES DURING THE CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE UTILITY COMPANY AND THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY HIS OPERATIONS.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH OTHER WORK WHICH MAY BE ONGOING ADJACENT TO, OR AFFECTING, THIS CONSTRUCTION. CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND ALL AFFECTED UTILITY COMPANIES.
- CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO THE INITIATING OF ANY EXCAVATION ACTIVITIES, OR AS SPECIFIED BY THE UTILITY COMPANY AND ANY PERMITS REQUIRED FOR THE WORK.
- CONTRACTOR SHALL PROTECT EXISTING SURVEY MARKERS, MONUMENTS, ETC. DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE/REPLACE ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/DISPOSAL OF ANY UNSUITABLE MATERIAL FROM THE CONSTRUCTION OPERATION, FURNISHING AND CONTACTING SUITABLE REPLACEMENT BACKFILL MATERIAL. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- CONSTRUCTION WARNING SIGNS SHALL BE MOUNTED AND ERRECTED BEFORE CONSTRUCTION CAN COMMENCE. THESE, AND ALL TRAFFIC CONTROL DEVICES, SHALL FOLLOW THE STANDARDS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING THE AREA OF CONSTRUCTION AND SAFELY ROUTING ALL VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARLY MARKED AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE EROSION AND TURBIDITY CONTROLS IN ACCORDANCE WITH FDEP DURING AND FOLLOWING CONSTRUCTION, UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED TO AVOID ADVERSE ENVIRONMENTAL IMPACTS TO OFF-SITE PROPERTY AND DRAINAGE SYSTEMS.
- CONTRACTOR SHALL HYDRO SEED AND MULCH (OR SOD AS APPLICABLE) ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT ACCORDING TO LOCAL REGULATIONS.
- CONTRACTOR SHALL MAINTAIN "AS-BUILT" INFORMATION ON A REGULAR BASIS. CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO DETERMINE ALL "AS-BUILT" INFORMATION. WITHIN 14 DAYS OF THE COMPLETION OF THE WORK, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES AND THE DIGITAL CAD FILE OF THE "AS-BUILT" DRAWINGS AND SUPPORTING SURVEY RECORDS TO THE ENGINEER. "AS-BUILT" DRAWINGS ARE TO BE IN ACCORDANCE WITH THE CITY OF FORT PIERCE REQUIREMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRODUCE, AS-BUILT DRAWINGS FOR ANY JURISDICTIONAL AGENCIES AS MAY BE REQUIRED FOR PROJECT CERTIFICATION.
- CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS NOTICE OF ALL MEETINGS OR TESTING MEASURES REQUIRED TO BE WITNESSED BY THE CONSTRUCTION ACTIVITIES RELATED TO THE WORK.
- THE CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF STANDARD SHOP DRAWINGS AND MANUFACTURER'S CATALOGS WITH THE MODEL NUMBER OR TYPE OF THE ITEM ENCIRCLED OR OTHERWISE DESIGNATED. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR. ALL UTILITY SHOP DRAWINGS WILL NEED TO BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF FORT PIERCE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF COMPLETE DETAILED SHOP DRAWINGS FOR ALL SANITARY MANHOLES, WET WELLS, OTHER CASTINGS, AND PUMPS. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR ON EACH SHEET. A COMPLETE SET OF THE LIFT STATION ELECTRICAL SHOP DRAWINGS IS ALSO REQUIRED IF APPLICABLE. ALL UTILITY SHOP DRAWINGS WILL NEED TO BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF FORT PIERCE PRIOR TO CONSTRUCTION.

GENERAL UTILITY NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF FORT PIERCE UTILITY SYSTEMS DEPARTMENT UTILITY STANDARDS MANUAL AND THE CITY OF FORT PIERCE LAND DEVELOPMENT CODE, DETAILS AND SPECIFICATIONS, AS WELL AS ALL APPLICABLE STATE AND LOCAL REGULATIONS, EXCEPT AS MODIFIED HEREIN.
- IF SOLVENT CONTAMINATION IS FOUND IN ANY TRENCH, WORK WILL BE STOPPED AND THE CEC, OWNER, AND THE PROPER AUTHORITIES NOTIFIED. THE ST. LUCIE COUNTY HEALTH DEPARTMENT MAY GRANT APPROVAL OF THE USE OF DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL IN THE CONTAMINATED AREA. THIS APPROVAL MUST BE GRANTED IN WRITING AND PROVIDED TO CEC, AND PROPERTY OWNER. DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY CONTAMINATED AREA.
- VERTICAL LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN AND PROFILE SHEETS HAVE BEEN ASSUMED. CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION NEAR EXISTING UTILITIES SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF THE LOCATION DIFFERS FROM THAT SHOWN BEFORE CONTINUING WITH THE CONSTRUCTION.
- UNSUITABLE MATERIALS UNDER PROPOSED PIPING SHALL BE REMOVED AND REPLACED WITH SELECT BACKFILL, PROPERLY COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180.
- FITTINGS SHALL BE USED AT LOCATIONS INDICATED ON THE PLANS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. THRUST BLOCKING SHALL BE USED WHERE REQUIRED BY THE CITY OF FORT PIERCE.
- THE LENGTH OF TRENCH OPEN AT ANY ONE TIME SHALL BE CONTROLLED BY THE PARTICULAR SURROUNDING CONDITIONS, BUT SHALL BE LIMITED TO 300 LINEAR FEET UNLESS APPROVED BY THE ENGINEER IN WRITING.
- NO CONNECTIONS TO EXISTING POTABLE WATER SYSTEMS SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, CLEARED FOR SERVICE AND ACCEPTED BY THE CITY OF FORT PIERCE AND FDEP.
- THE BACTERIOLOGICAL SAMPLE POINTS SHALL BE INDICATED IN RED ON THE "AS BUILT" DRAWINGS PRIOR TO THE REQUEST FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE. THE SAMPLE NUMBERS WILL CORRESPOND TO THOSE ON THE BACTERIOLOGICAL SAMPLE LAB SHEETS.

WATER / SEWER SEPARATION:

- SANITARY SEWERS (INCLUDING LATERALS), FORCE MAINS, AND STORM SEWERS SHALL CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.
- A FULL, UNQUIT LENGTH OF WATER MAIN PIPE, AT LEAST 20 FEET IN LENGTH, SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER PIPING, REGARDLESS OF THE VERTICAL SEPARATION.
- WATER MAINS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM PIPES CARRYING RAW WASTEWATER, AND 10 FEET HORIZONTALLY FROM PIPES CARRYING RECLAIMED WATER. THE DISTANCE SHALL BE MEASURED FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE. WATER MAINS SHALL BE LAID TO PROVIDE A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF WATER MAIN AND THE TOP OF SEWER OR RECLAIMED WATER PIPE. WATER MAINS SHALL CROSS ABOVE SEWER OR RECLAIMED WATER PIPE WITH A VERTICAL SEPARATION OF AT LEAST 18 INCHES.

WASTEWATER COLLECTION SYSTEMS

- MATERIALS AND INSTALLATION FOR WASTEWATER COLLECTION SYSTEM INCLUDING, BUT NOT LIMITED TO, GRAVITY SEWERS, MANHOLES, SERVICE LATERALS, FORCE MAINS, LIFT STATIONS, AND TESTING REQUIREMENTS SHALL CONFORM TO THE FORT PIERCE UTILITY AUTHORITY UTILITY STANDARDS AND THE CITY OF FORT PIERCE LAND DEVELOPMENT CODE AND ALL APPLICABLE FDEP REGULATIONS. ALL PVC GRAVITY SEWER SHALL BE SDR-26.
- WYE GRAVITIES FOR LATERAL SERVICE SHALL BE SIX (6) INCHES I.D.
- PLUGS SHALL BE OF THE SAME MATERIAL AS THE PIPE, GASKETED, AND SHALL WITHSTAND THE REQUIRED TEST PRESSURE.
- LEAKAGE TEST SHALL BE IN ACCORDANCE WITH CITY OF FORT PIERCE AND AWWA C-600, SECTION 5.2.

GENERAL SEPARATION NOTE:

- ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE)

NOTE:

- THE PROPERTY OWNER, CONTRACTOR AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY.

WATER DISTRIBUTION SYSTEMS

- MATERIALS AND INSTALLATION FOR WATER DISTRIBUTION SYSTEM INCLUDING, BUT NOT LIMITED TO, PIPE FITTINGS, VALVES, JOINT RESTRAINTS, FIRE HYDRANTS, SERVICE LINES, TESTING, AND DISINFECTION SHALL CONFORM TO THE FORT PIERCE UTILITY AUTHORITY UTILITY STANDARDS AND THE CITY OF FORT PIERCE LAND DEVELOPMENT CODE AND ALL APPLICABLE FDEP REGULATIONS. ALL PVC PIPE SHALL BE SDR-18 UNLESS SPECIFIED OTHERWISE.

WATER AND SEWER UTILITY NOTES

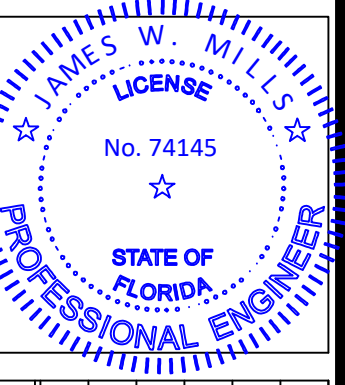
- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY DI. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

GENERAL STRIPING AND SIGNAGE NOTES:

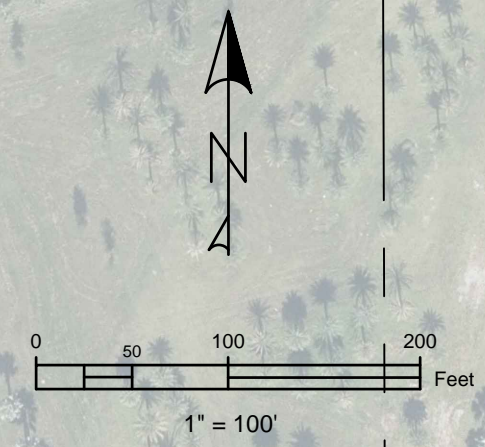
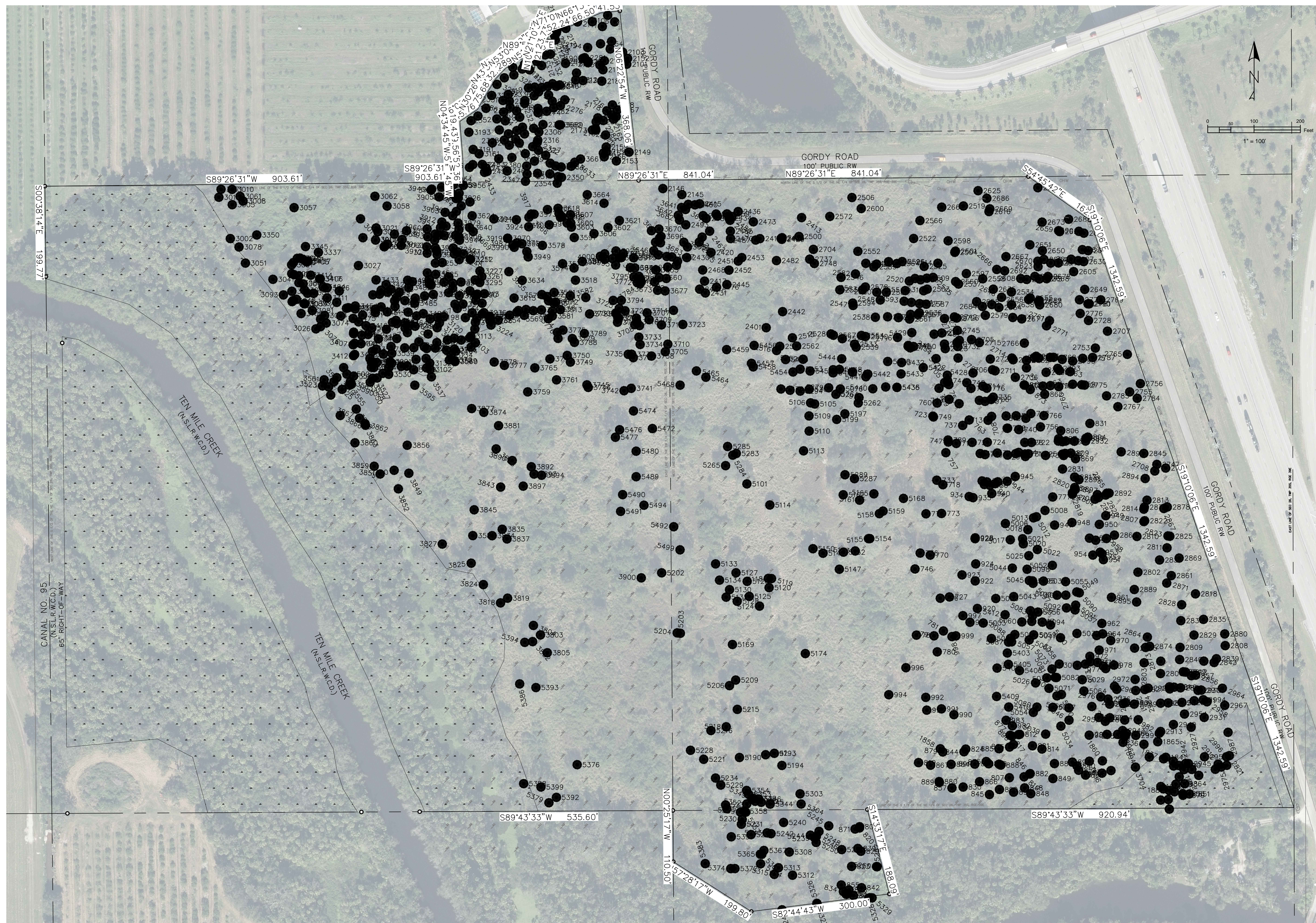
- ALL STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH FDOT AND LATEST EDITION OF MUTCD.

PAVING, GRADING AND DRAINAGE NOTES

- THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THIS FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN CITY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY ENGINEERING STANDARDS FOR LAND DEVELOPMENT LOCAL REGULATIONS.
- ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) : 1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
- SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.



ISSUE	DATE	COMMENTS



**LEGEND:**

- EXISTING UTILITY POLE
- EXISTING TELECOM RISER
- EXISTING SPOT ELEVATION
- EXISTING ROAD CENTERLINE
- EXISTING TOP OF BANK
- EXISTING SWALE
- EXISTING CONTOUR LINE
- EXISTING TREE
- EXISTING WETLAND BOUNDARY
- EXISTING OVERHEAD POWER LINES
- EXISTING PROPERTY LINE

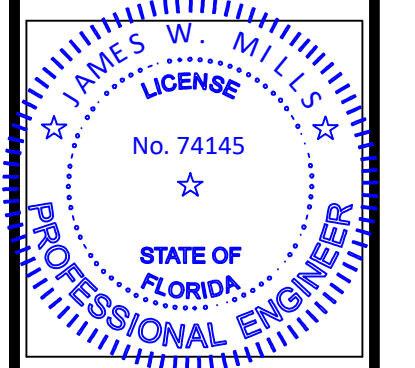
**NOTES:**

1. REFER TO TREE SURVEY PREPARED BY EDC DATED 03/17/2022 FOR TREE TYPES AND SIZES.
2. ALL NUISANCE EXOTIC VEGETATION EXISTING WITHIN PROJECT SITE PROPERTY MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT.
3. ANY WELLS IMPACTED BY DEVELOPMENT MUST BE PROPERLY ABANDONED THROUGH ST. LUCIE COUNTY DEPARTMENT OF HEALTH.

**BENCHMARK:**

ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988.

**Mills, Short & Associates**  
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 C.A. # 30698  
 700 22nd Place, Suite 2C2D  
 Vero Beach, Florida 32960



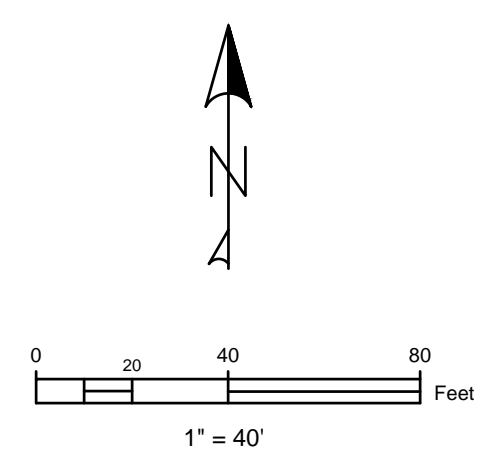
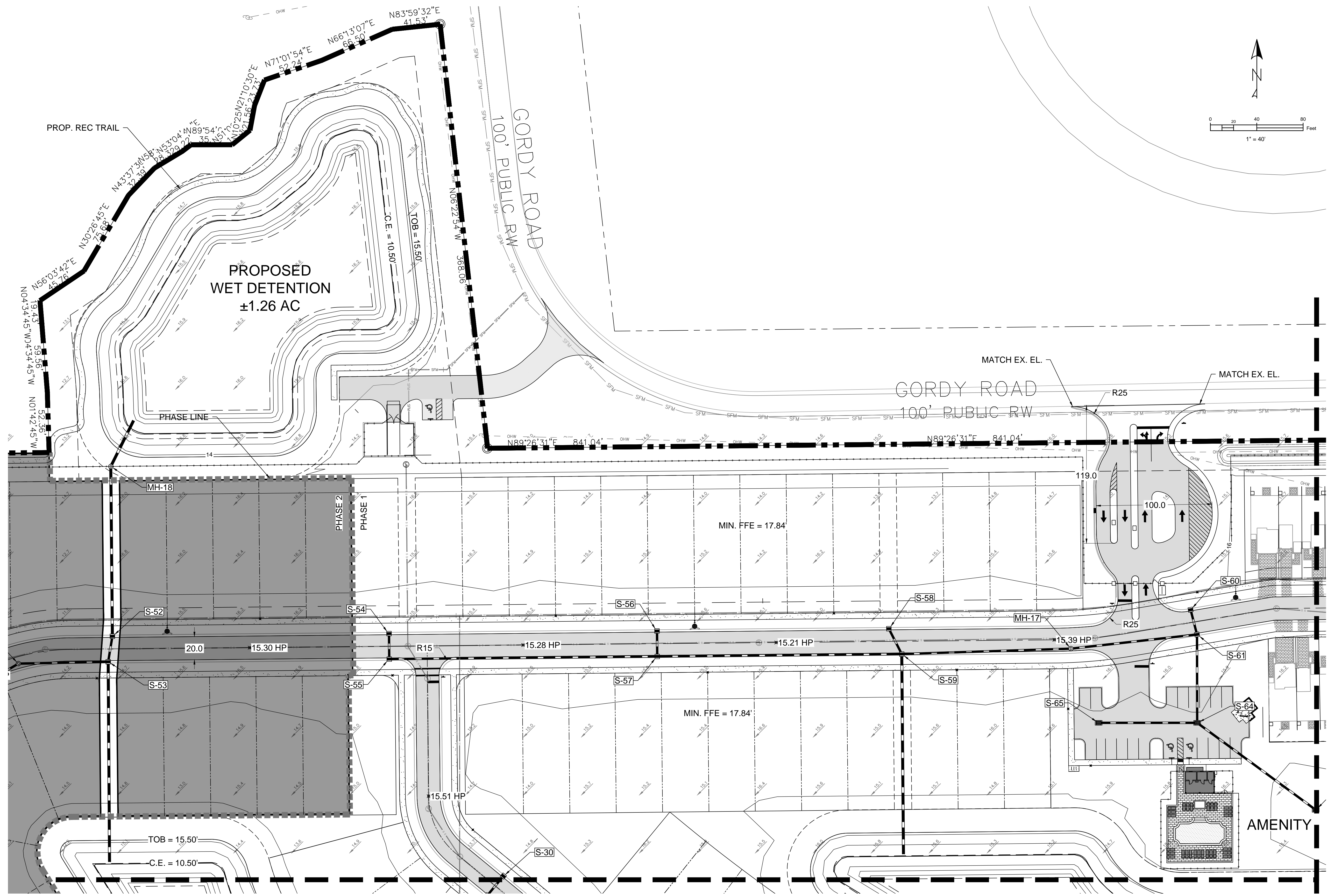
ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET EXISTING SITE CONDITIONS  
 DRAWN BY: KKR  
 CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET

PROJ. NO.	24-170
DATE	2024.09.24
SHEET NO.	

**C-1**





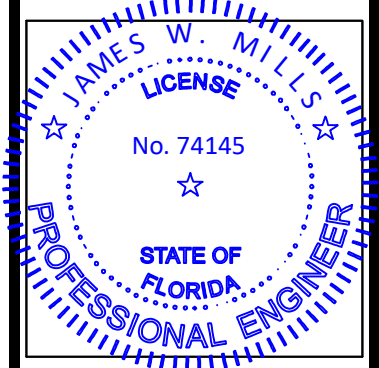
**PGD LEGEND:**

	PROPOSED ASPHALT PAVEMENT		PROPOSED SEWER LINE
	PROPERTY BOUNDARY		PROPOSED CONTOUR LINE
	PROPOSED LAKE CONTROL ELEVATION CONTOUR		EXISTING SPOT ELEVATION
	PROPOSED DRAINAGE STRUCTURE		PROPOSED SPOT ELEVATION
	PROPOSED DRAINAGE PIPE		
	PROPOSED WATER LINE		

**NOTE:**  
 PHASE 1 AREA SHOWN.  
 ALL PONDS TO BE CONSTRUCTED AS PART OF PHASE 1.

PHASE 2

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 700 2nd Place, Suite 202D  
 Vero Beach, Florida 32960

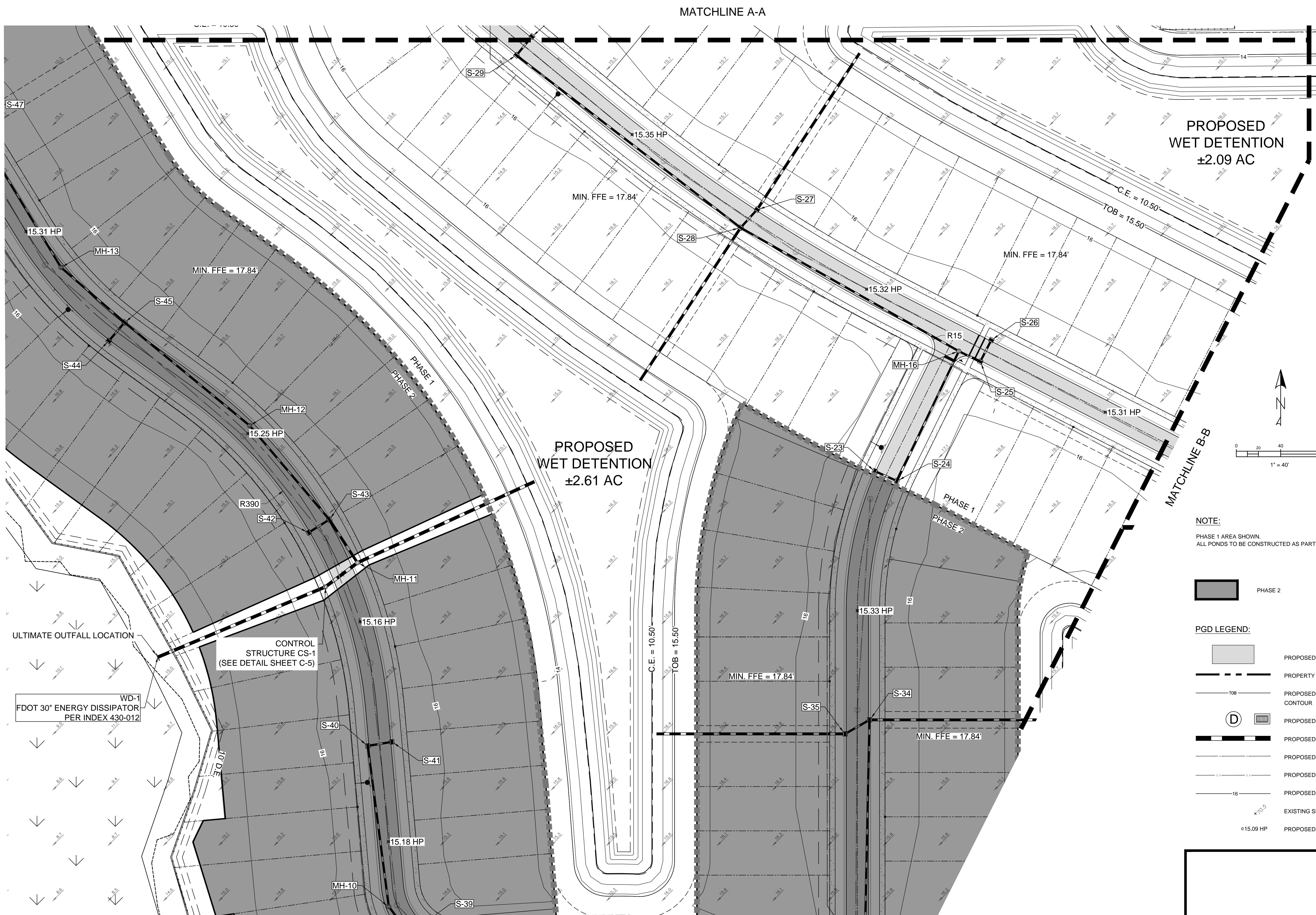


ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET  
 PHASE 1 GRADING AND DRAINAGE PLAN (CONCEPTUAL)  
 DRAWN BY: KKR  
 CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET

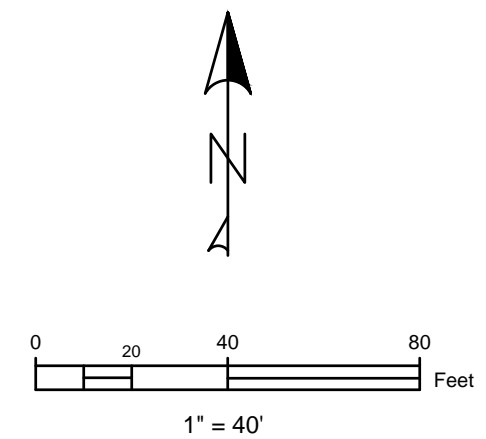
PROJ. NO. 24-170  
 DATE 2024.09.24  
 SHEET NO.

**C-3A**



PROPOSED  
WET DETENTION  
±2.09 AC

PROPOSED  
WET DETENTION  
±2.61 AC



NOTE:  
PHASE 1 AREA SHOWN.  
ALL PONDS TO BE CONSTRUCTED AS PART OF PHASE 1.

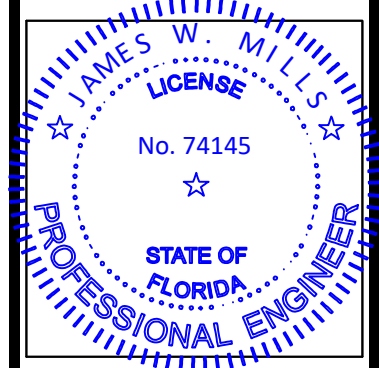
- PHASE 2
- PGD LEGEND:
- PROPOSED ASPHALT PAVEMENT
  - PROPERTY BOUNDARY
  - PROPOSED LAKE CONTROL ELEVATION CONTOUR
  - PROPOSED DRAINAGE STRUCTURE
  - PROPOSED DRAINAGE PIPE
  - PROPOSED WATER LINE
  - PROPOSED SEWER LINE
  - PROPOSED CONTOUR LINE
  - EXISTING SPOT ELEVATION
  - PROPOSED SPOT ELEVATION

ULTIMATE OUTFALL LOCATION

WD-1  
FDOT 30" ENERGY DISSIPATOR  
PER INDEX 430-012

CONTROL  
STRUCTURE CS-1  
(SEE DETAIL SHEET C-5)

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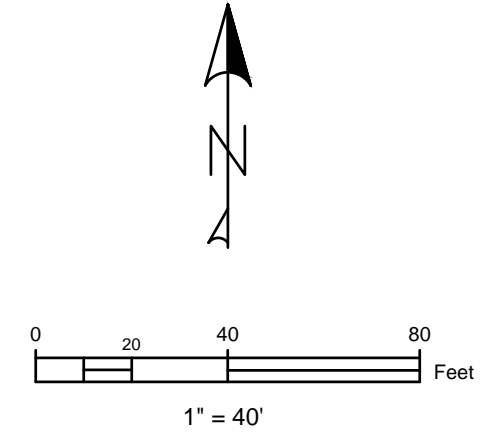


ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
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 PHASE 1 GRADING AND DRAINAGE PLAN (CONCEPTUAL)  
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 CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET

PROJ. NO. 24-170  
 DATE 2024.09.24  
 SHEET NO.

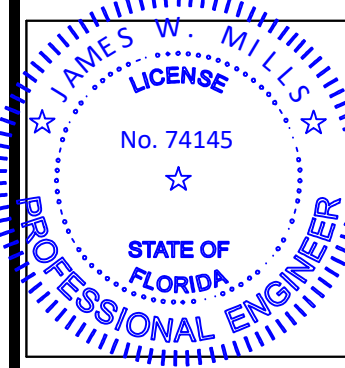
**C-3B**



**NOTE:**  
 PHASE 1 AREA SHOWN.  
 ALL PONDS TO BE CONSTRUCTED AS PART OF PHASE 1.

- PGD LEGEND:**
- PHASE 2
  - PROPOSED ASPHALT PAVEMENT
  - PROPERTY BOUNDARY
  - PROPOSED LAKE CONTROL ELEVATION CONTOUR
  - PROPOSED DRAINAGE STRUCTURE
  - PROPOSED DRAINAGE PIPE
  - PROPOSED WATER LINE
  - PROPOSED SEWER LINE
  - PROPOSED CONTOUR LINE
  - EXISTING SPOT ELEVATION
  - PROPOSED SPOT ELEVATION

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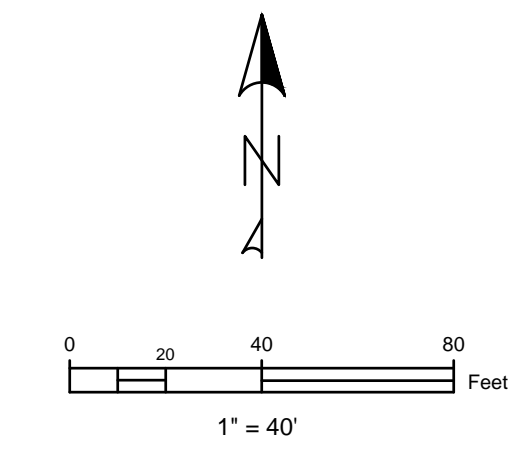
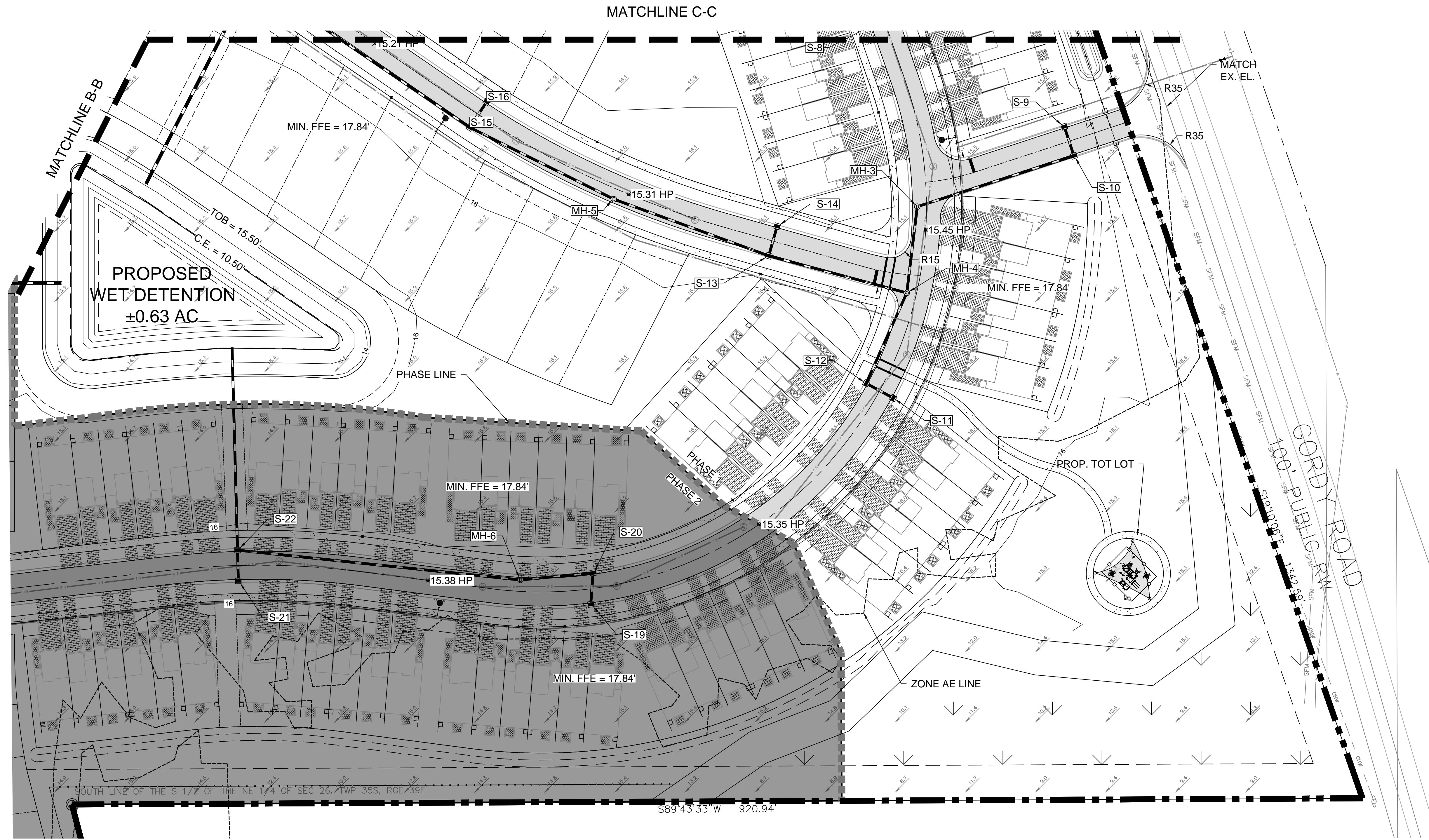


ISSUE	DATE	COMMENTS












**GORDY CREEK RESIDENTIAL**  
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 FLORIDA 34945  
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PROJ. NO. 24-170  
 DATE 2024.09.24  
 SHEET NO.

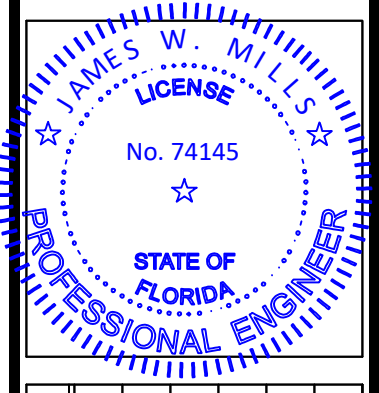
**C-3C**



**NOTE:**  
 PHASE 1 AREA SHOWN.  
 ALL PONDS TO BE CONSTRUCTED AS PART OF PHASE 1.

- PGD LEGEND:**
-  PHASE 2
  -  PROPOSED ASPHALT PAVEMENT
  -  PROPERTY BOUNDARY
  -  PROPOSED LAKE CONTROL ELEVATION CONTOUR
  -  PROPOSED DRAINAGE STRUCTURE
  -  PROPOSED DRAINAGE PIPE
  -  PROPOSED WATER LINE
  -  PROPOSED SEWER LINE
  -  PROPOSED CONTOUR LINE
  -  EXISTING SPOT ELEVATION
  -  PROPOSED SPOT ELEVATION

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 Vero Beach, Florida 32960

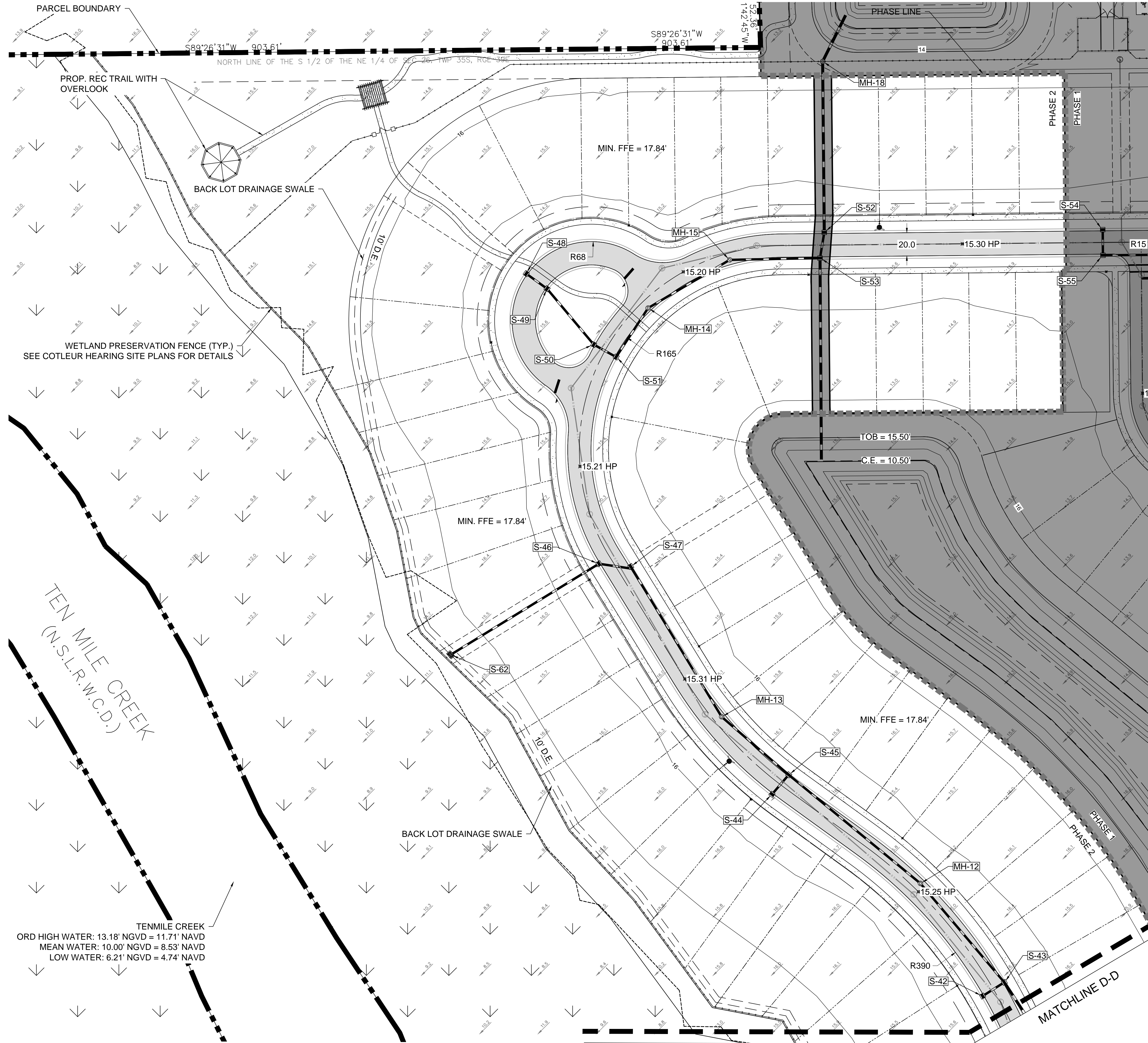


ISSUE	DATE	COMMENTS

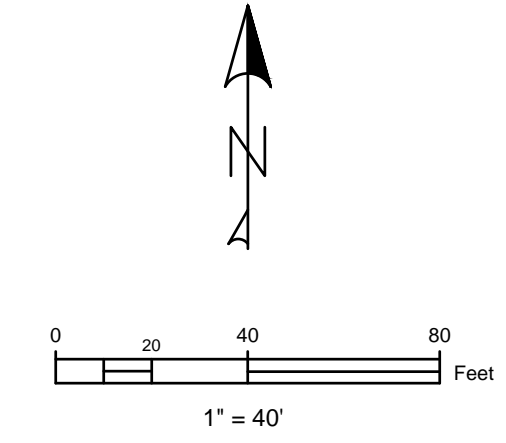
**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET  
 PHASE 1 GRADING AND DRAINAGE PLAN (CONCEPTUAL)  
 DRAWN BY: KKR  
 CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET

PROJ. NO. 24-170  
 DATE 2024.09.24  
 SHEET NO.

**C-3D**



TENMILE CREEK  
 ORD HIGH WATER: 13.18' NGVD = 11.71' NAVD  
 MEAN WATER: 10.00' NGVD = 8.53' NAVD  
 LOW WATER: 6.21' NGVD = 4.74' NAVD



**NOTE:**

PHASE 2 AREA SHOWN.  
 ALL PONDS TO BE CONSTRUCTED AS PART OF PHASE 1.

- PGD LEGEND:**
- PHASE 1
  - PROPOSED ASPHALT PAVEMENT
  - PROPERTY BOUNDARY
  - PROPOSED LAKE CONTROL ELEVATION CONTOUR
  - D PROPOSED DRAINAGE STRUCTURE
  - PROPOSED DRAINAGE PIPE
  - PROPOSED WATER LINE
  - PROPOSED SEWER LINE
  - PROPOSED CONTOUR LINE
  - EXISTING SPOT ELEVATION
  - PROPOSED SPOT ELEVATION

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 700 22nd Place, Suite 2C2D  
 Vero Beach, Florida 32960

STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 LICENSE No. 74145  
 JAMES W. MILLS

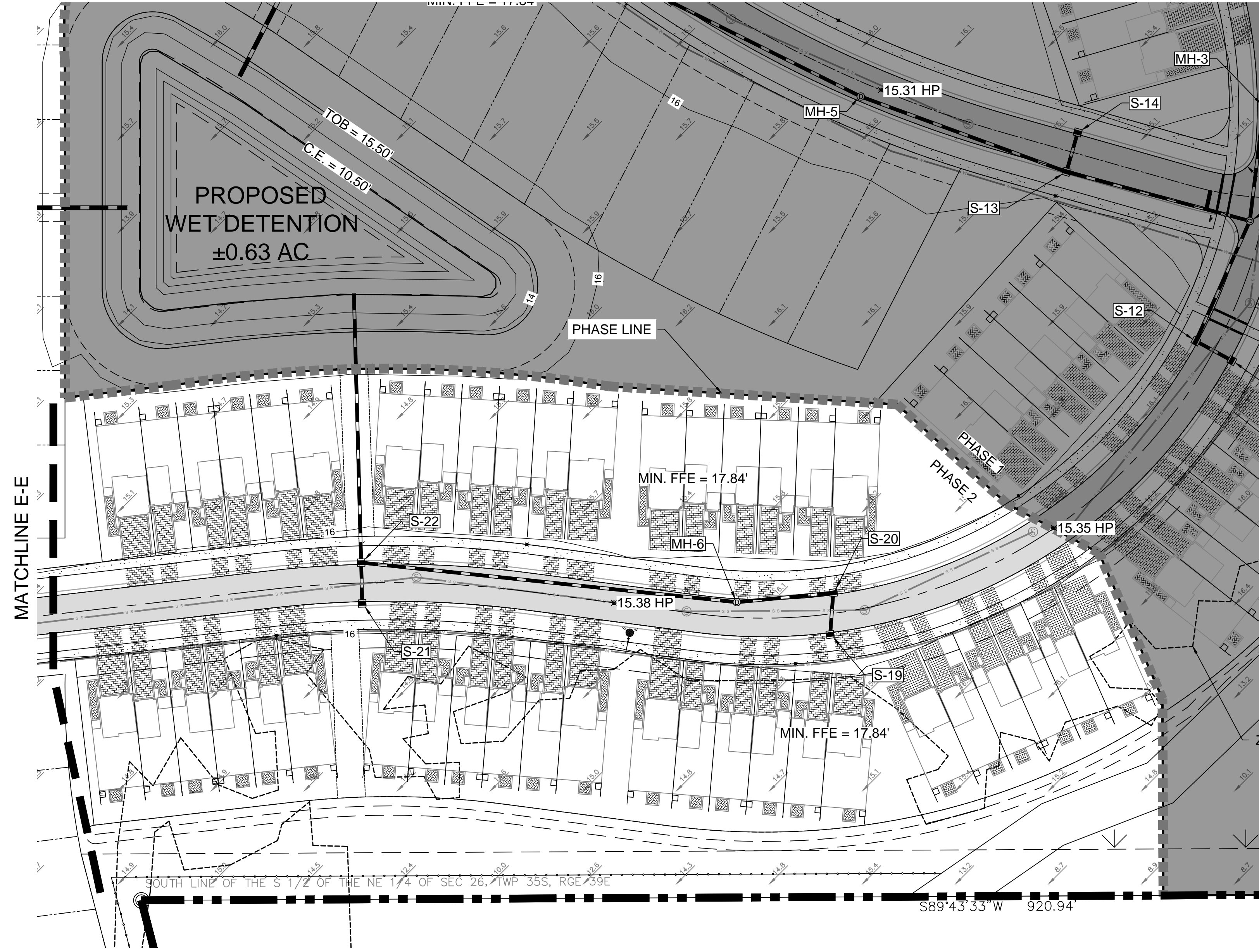
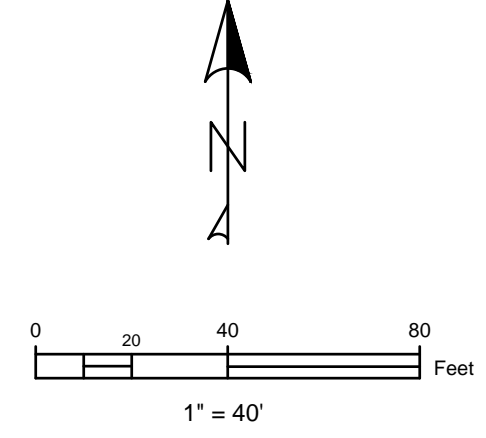
ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET  
 PHASE 2 GRADING AND DRAINAGE PLAN (CONCEPTUAL)

CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET  
 DRAWN BY: KKR

PROJ. NO.	24-170
DATE	2024.09.24
SHEET NO.	C-4A





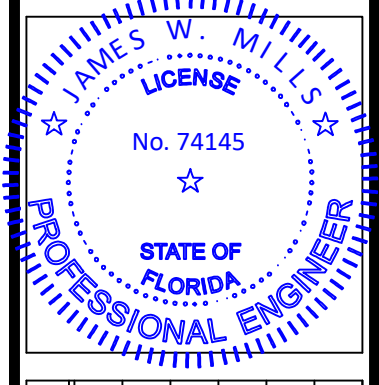
**PGD LEGEND:**

- PROPOSED ASPHALT PAVEMENT
- PROPERTY BOUNDARY
- PROPOSED LAKE CONTROL ELEVATION CONTOUR
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED CONTOUR LINE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PHASE 1

**NOTE:**

PHASE 2 AREA SHOWN.  
ALL PONDS TO BE CONSTRUCTED AS PART OF PHASE 1.

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ISSUE	DATE	COMMENTS

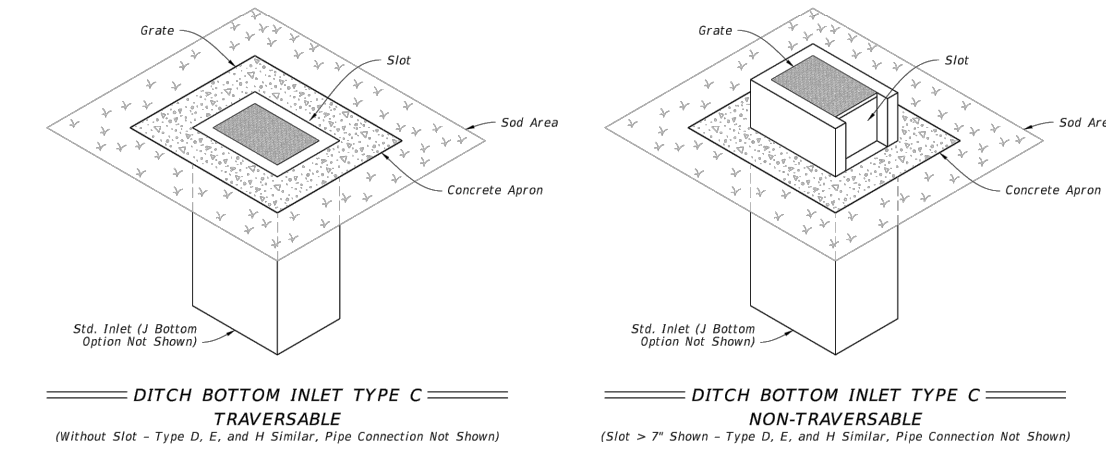
**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET  
 PHASE 2 GRADING AND DRAINAGE PLAN (CONCEPTUAL)

PROJ. NO. 24-170  
 DATE 2024.09.24  
 SHEET NO.

CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET

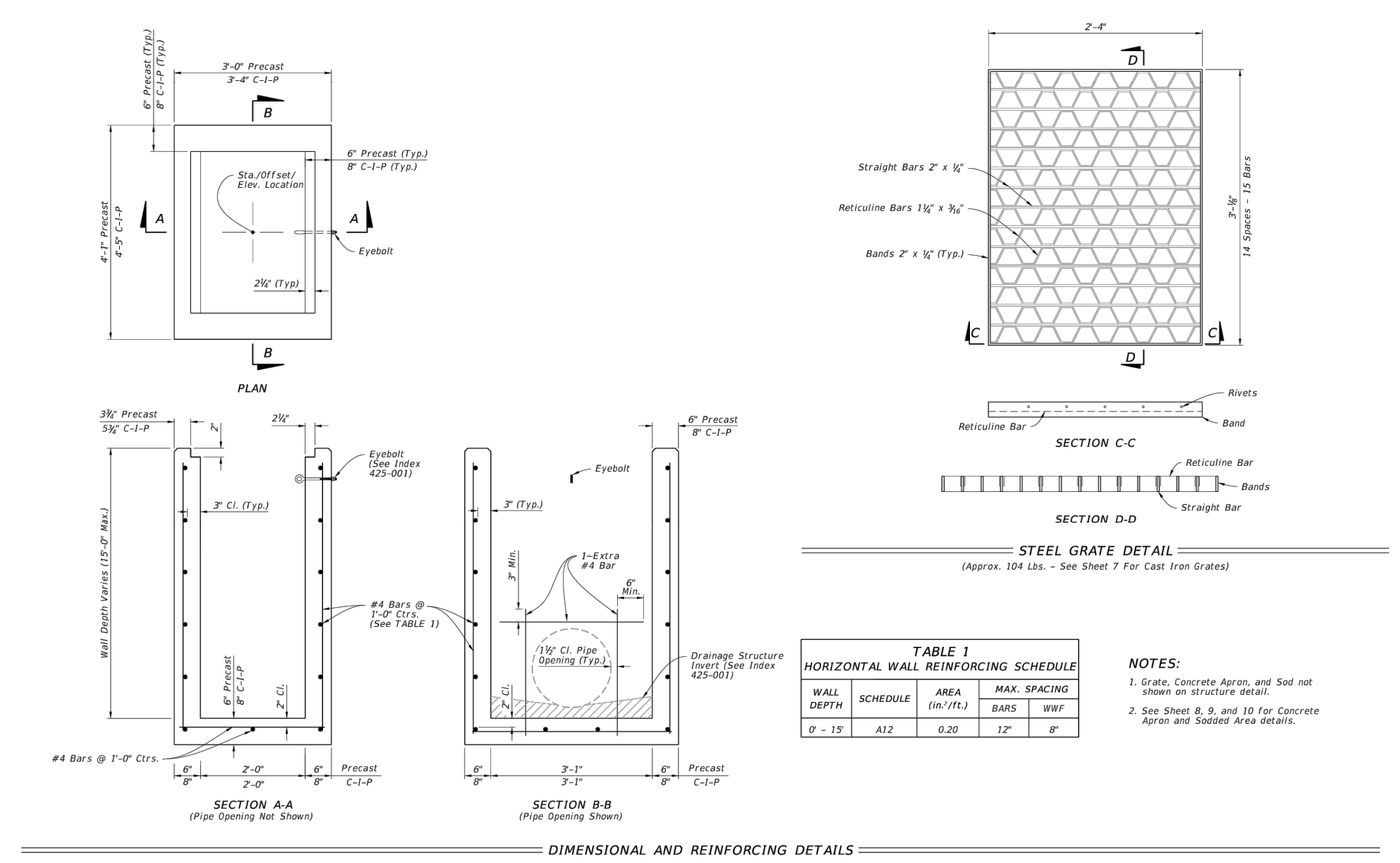
**C-4C**

- GENERAL NOTES:**
1. Bars in slabs shall have 420-011 and have 420-012.
  2. Cover of exposed rebar and concrete 1" diameter or larger shall be 1" minimum.
  3. All reinforcing bars shall have 1" minimum cover unless otherwise noted. Cut or bent bars for 18" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.
  4. Use concrete apron in holes without slots and inlets with non-traversable inlets only when called for in the Plans.
  5. Questions are for informational and estimating purposes only.



**TABLE OF CONTENTS:**

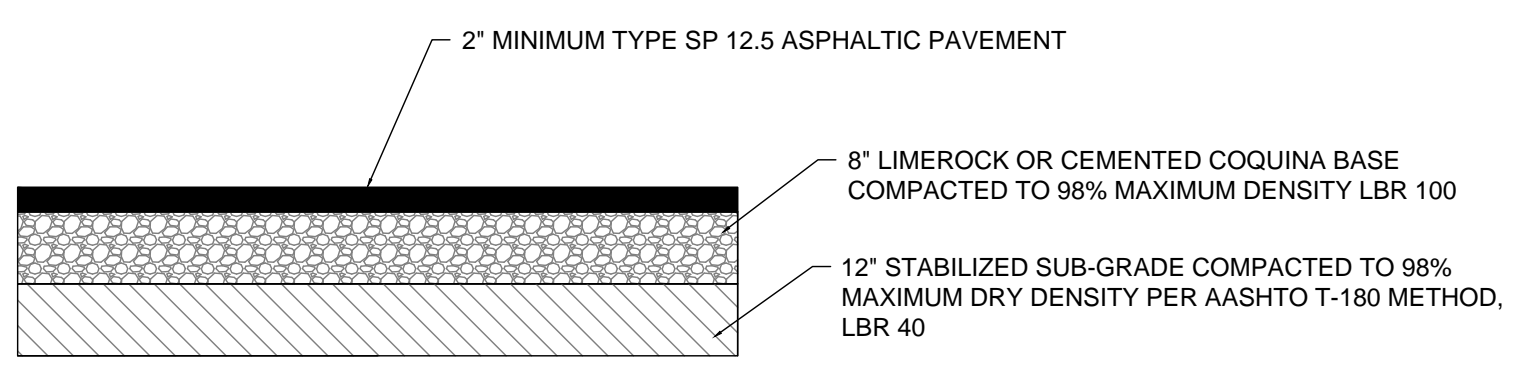
Sheet	Description
1	General Notes and Details
2	Type C - Dimensional, Reinforcing, and Steel Grate Details
3	Type D - Dimensional, Reinforcing, and Steel Grate Details
4	Type E - Dimensional, Reinforcing, and Steel Grate Details
5	Type H - Dimensional, Reinforcing, and Steel Grate Details
6	Type I - Dimensional, Reinforcing, and Steel Grate Details
7	Cast Iron Grate Details
8	Non-Traversable Inlet Details
9	Traversable Inlet Without Slot Details
10	Traversable Inlet With Slot Details
11	Case 1 - Add Traversable Slab to Existing Inlet
12	Case 2 - Add Traversable Slab (Partial) to Existing Inlet
13	Case 3 - Add Traversable Slab (Partial) to Existing Inlet and Ditch Block
14	Alternate A Structure Below - Top Soil Details



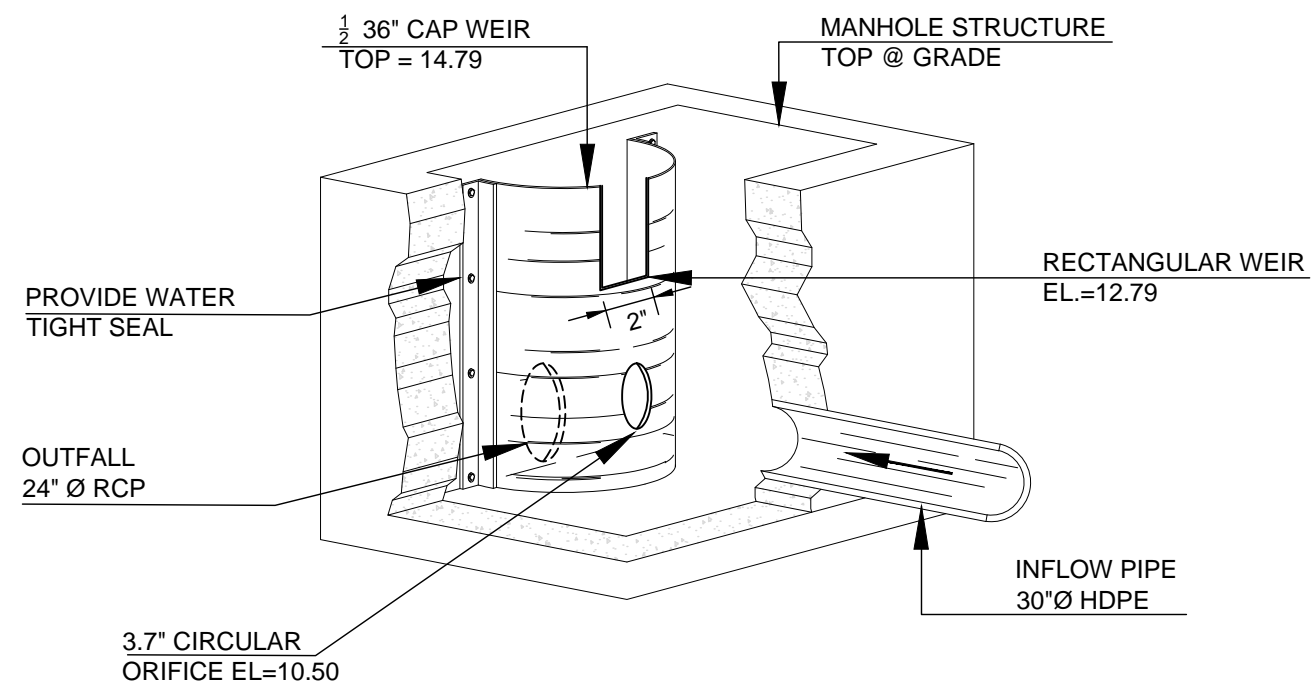
**TABLE 1**  
HORIZONTAL WALL REINFORCING SCHEDULE

WALL	SCHEDULE	AREA (IN <sup>2</sup> /FT.)	MAX. SPACING	BARS	W/F
1	A12	0.20	12"	8"	8"

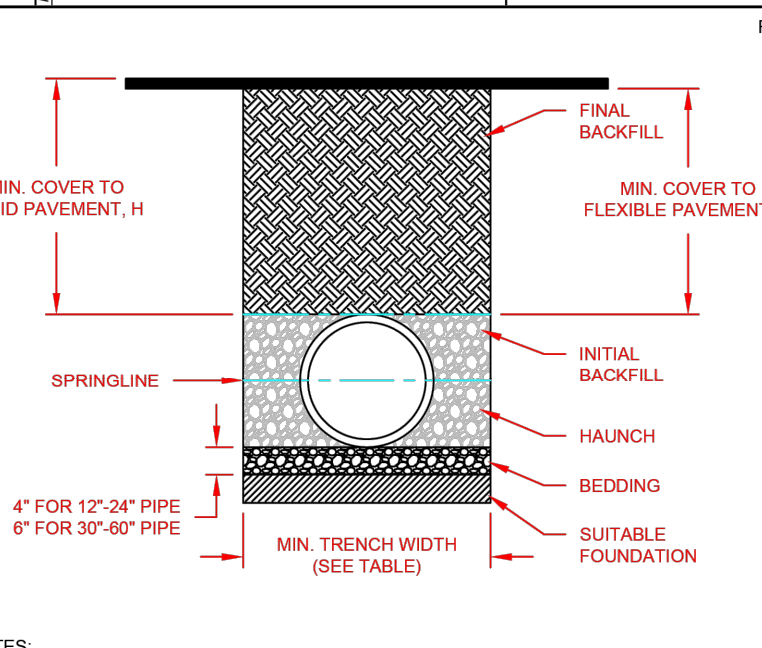
- NOTES:**
1. Grate, Concrete Apron, and Soil not shown are per 420-011.
  2. See Sheet 8, 9, and 10 for Concrete Apron and Soil not shown details.



**ASPHALT PAVEMENT**  
SCALE: N.T.S.



**CONTROL STRUCTURE CS-1**  
FDOT TYPE 'C' STRUCTURE  
SCALE = N.T.S.



**RECOMMENDED MINIMUM TRENCH WIDTHS**

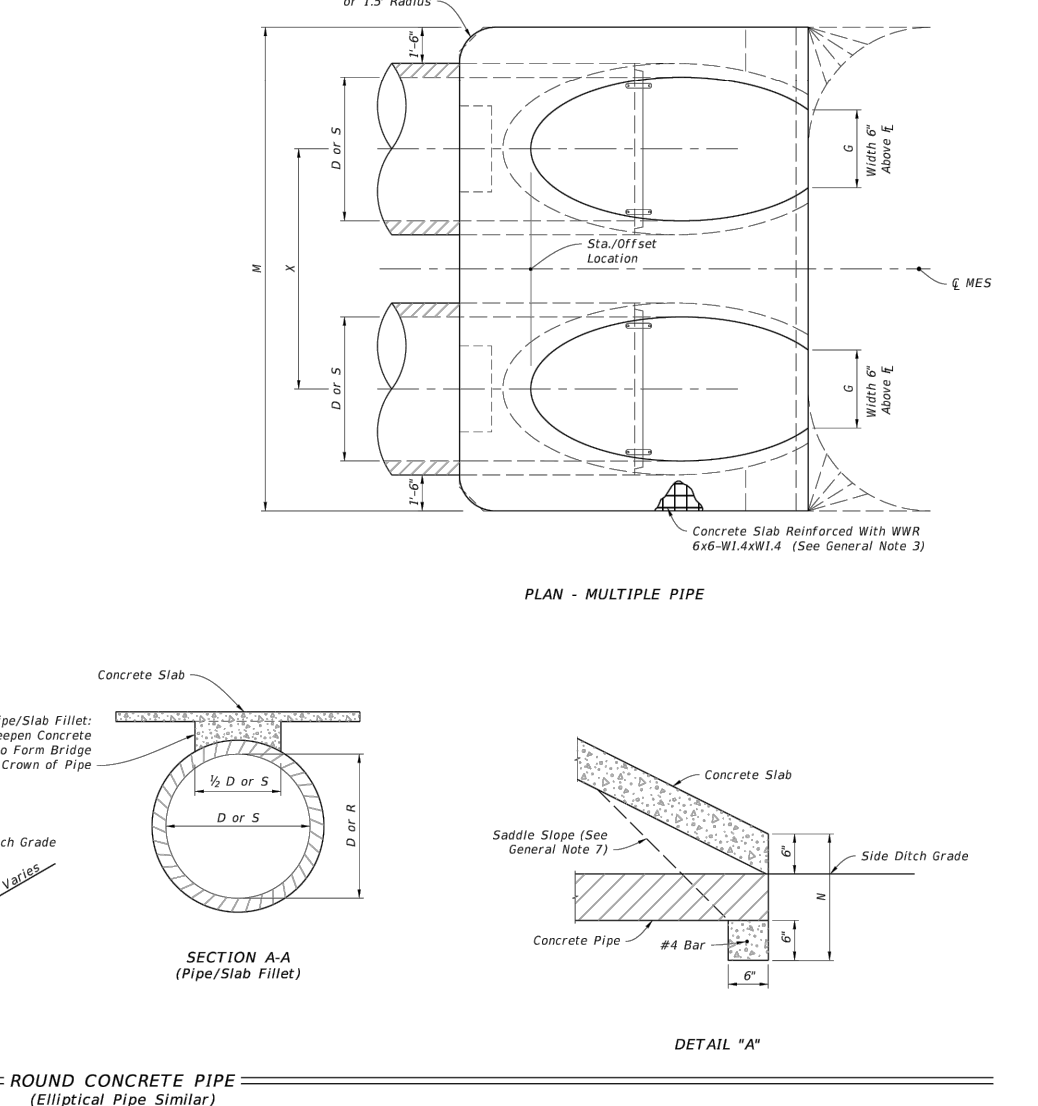
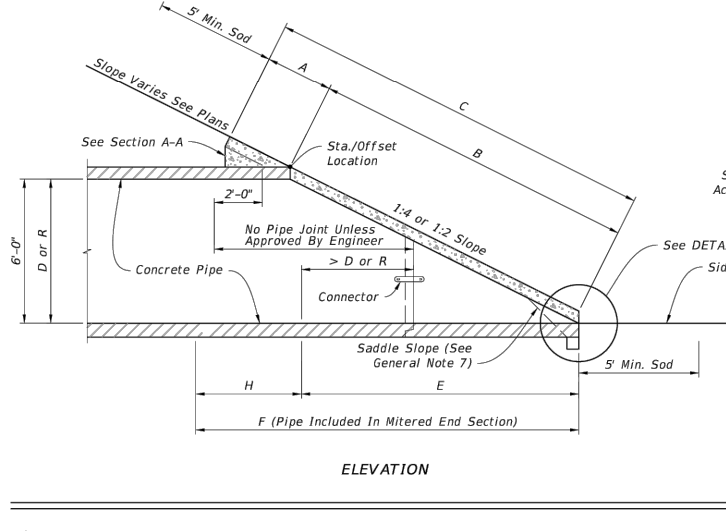
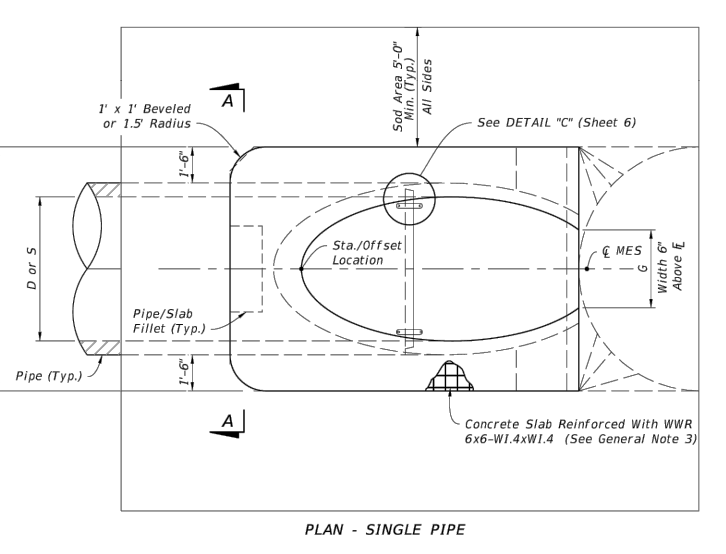
PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	38"
24"	48"
30"	58"
36"	64"
42"	72"
48"	80"
60"	98"
72"	118"
84"	142"
96"	162"
108"	182"
120"	202"
144"	248"

**MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS\***

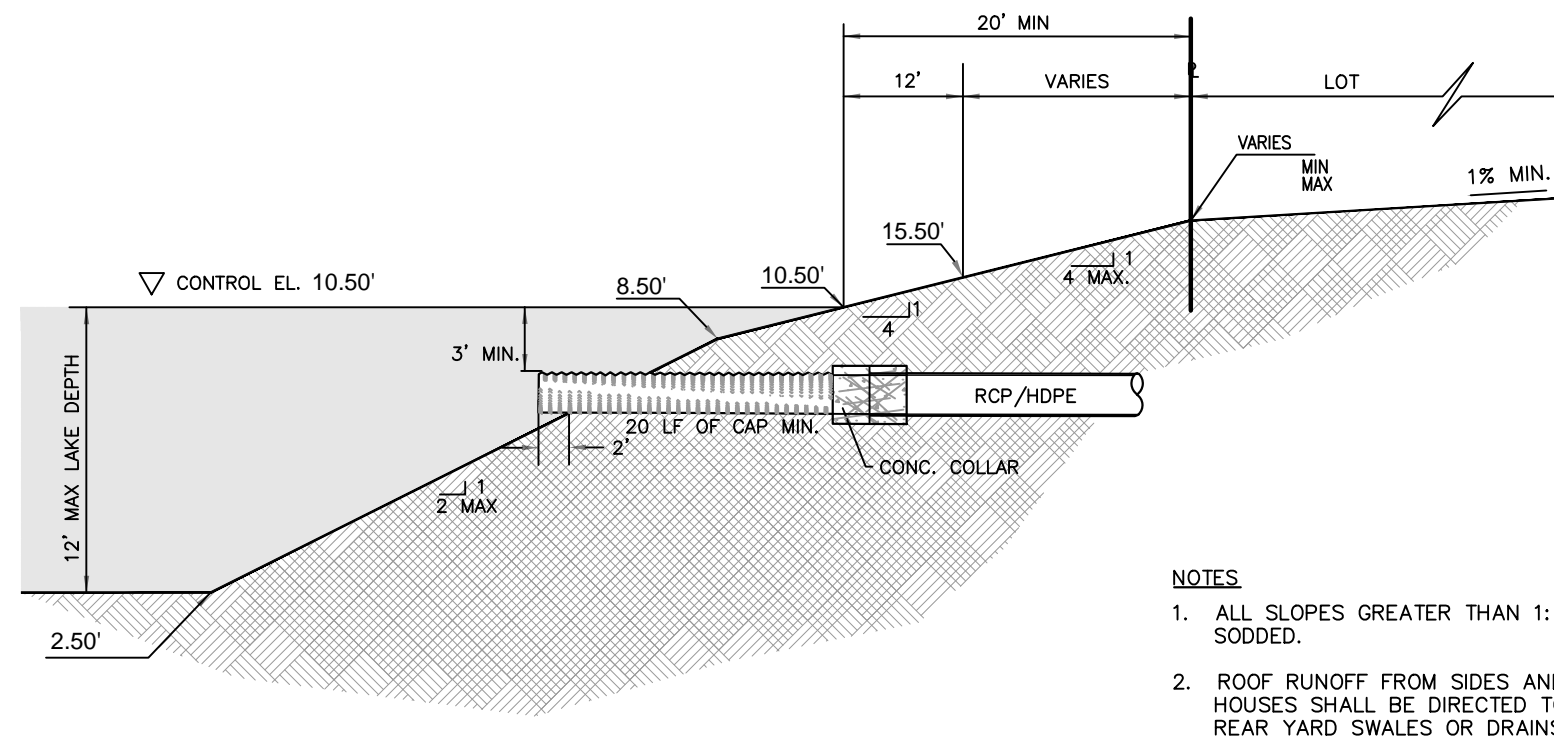
PIPE DIAM.	H-20	HEAVY CONSTRUCTION (75T AASHTO)
12" - 48"	12"	12"
(300mm - 1200mm)	(305mm)	(305mm)
15"	15"	15"
(375mm)	(375mm)	(375mm)
18"	18"	18"
(450mm)	(450mm)	(450mm)
24"	24"	24"
(600mm)	(600mm)	(600mm)
30"	30"	30"
(750mm)	(750mm)	(750mm)
36"	36"	36"
(900mm)	(900mm)	(900mm)
42"	42"	42"
(1050mm)	(1050mm)	(1050mm)
48"	48"	48"
(1200mm)	(1200mm)	(1200mm)
60"	60"	60"
(1500mm)	(1500mm)	(1500mm)

**MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	CLASS I			CLASS II			CLASS III		
	COMPACTED	DUMPED	95%	90%	90%	90%	90%	90%	
4"	37	16	25	18	18	18	18	18	
(100mm)	(11.3m)	(5.5m)	(7.6m)	(5.5m)	(5.5m)	(5.5m)	(5.5m)	(5.5m)	
6"	44	20	29	20	21	21	21	21	
(150mm)	(13.4m)	(6.1m)	(8.8m)	(6.1m)	(6.4m)	(6.4m)	(6.4m)	(6.4m)	
8"	52	25	37	25	26	26	26	26	
(200mm)	(15.9m)	(7.6m)	(11.3m)	(7.6m)	(7.9m)	(7.9m)	(7.9m)	(7.9m)	
10"	58	28	41	28	29	29	29	29	
(250mm)	(17.6m)	(8.5m)	(12.4m)	(8.5m)	(8.8m)	(8.8m)	(8.8m)	(8.8m)	
12"	65	32	46	32	33	33	33	33	
(300mm)	(19.8m)	(9.8m)	(14.0m)	(9.8m)	(10.1m)	(10.1m)	(10.1m)	(10.1m)	
15"	78	38	55	38	39	39	39	39	
(375mm)	(23.8m)	(11.6m)	(16.8m)	(11.6m)	(11.9m)	(11.9m)	(11.9m)	(11.9m)	
18"	88	44	64	44	45	45	45	45	
(450mm)	(26.9m)	(13.4m)	(19.5m)	(13.4m)	(13.7m)	(13.7m)	(13.7m)	(13.7m)	
24"	108	54	78	54	55	55	55	55	
(600mm)	(32.9m)	(16.4m)	(23.8m)	(16.4m)	(16.7m)	(16.7m)	(16.7m)	(16.7m)	
30"	128	64	92	64	65	65	65	65	
(750mm)	(39.0m)	(19.5m)	(28.1m)	(19.5m)	(19.8m)	(19.8m)	(19.8m)	(19.8m)	
36"	148	74	106	74	75	75	75	75	
(900mm)	(45.1m)	(22.6m)	(32.3m)	(22.6m)	(22.9m)	(22.9m)	(22.9m)	(22.9m)	
42"	168	84	120	84	85	85	85	85	
(1050mm)	(51.3m)	(25.6m)	(36.6m)	(25.6m)	(25.9m)	(25.9m)	(25.9m)	(25.9m)	
48"	188	94	134	94	95	95	95	95	
(1200mm)	(57.4m)	(28.7m)	(40.9m)	(28.7m)	(29.0m)	(29.0m)	(29.0m)	(29.0m)	
60"	228	114	162	114	115	115	115	115	
(1500mm)	(69.6m)	(34.9m)	(49.4m)	(34.9m)	(35.2m)	(35.2m)	(35.2m)	(35.2m)	



**SINGLE AND MULTIPLE CONCRETE PIPE**  
CROSS DRAIN MITERED END SECTION 430-021 2 of 6

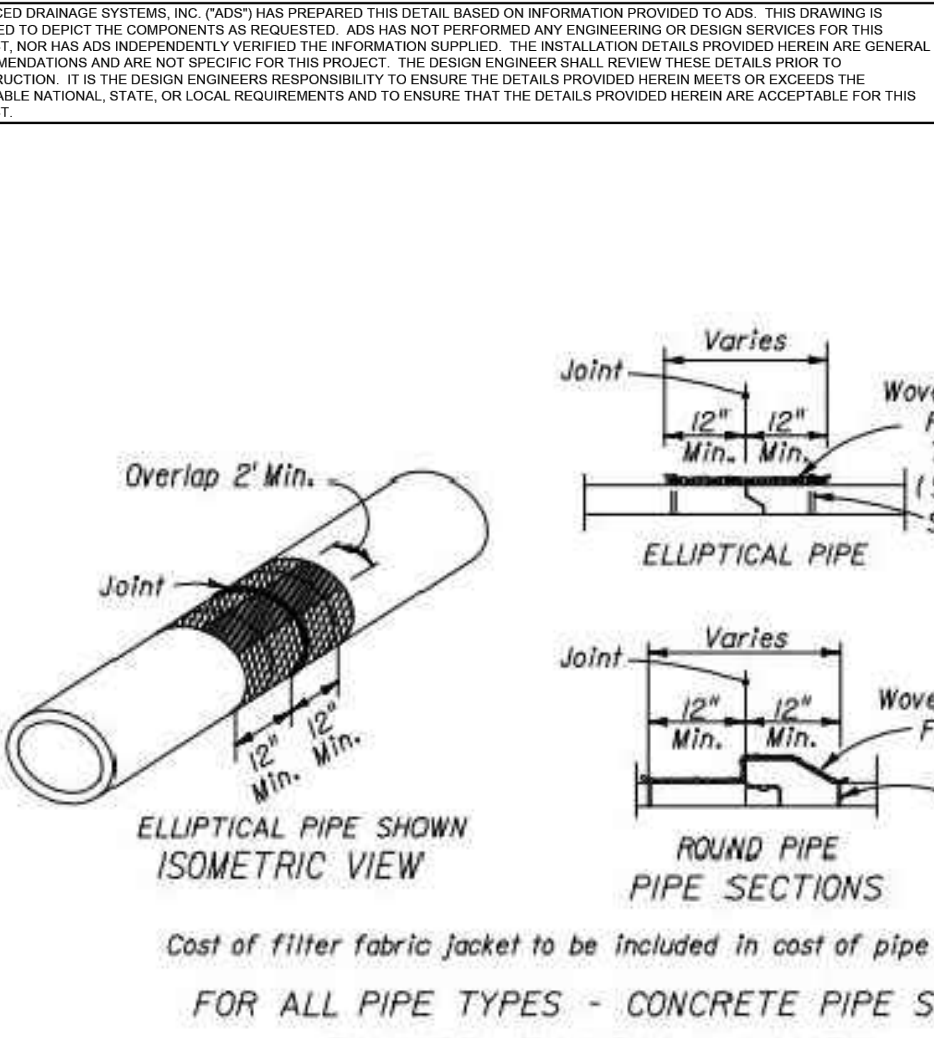


**TYPICAL LAKE SECTION**  
SCALE: N.T.S.

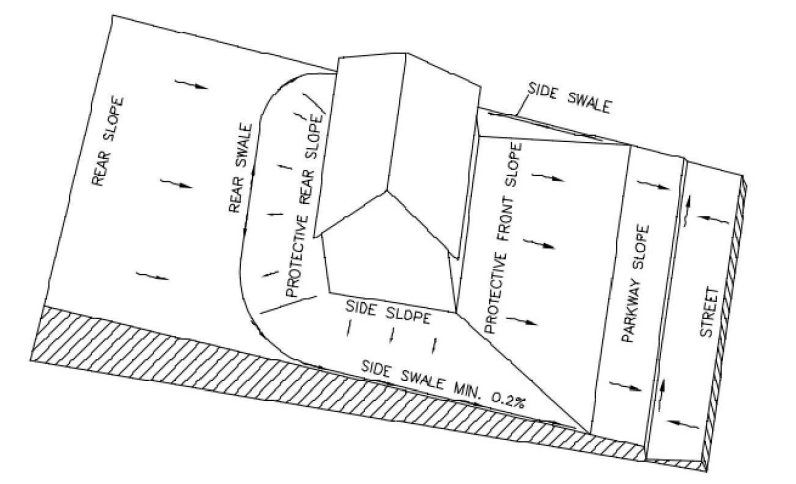
- NOTES:**
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS," LATEST EDITION.
  2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
  3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm) Ø (150mm) FOR 30"-60" (750mm-1500mm).
  5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

**REVISIONS**

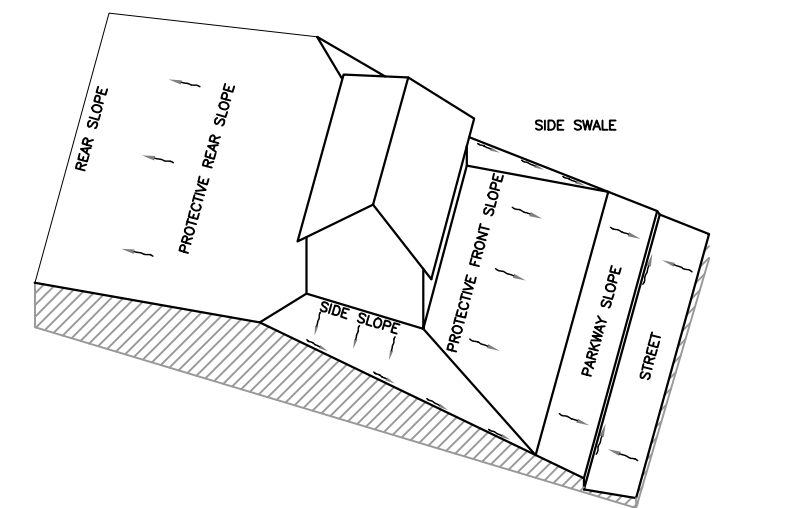
REV	DESCRIPTION	DATE	BY	CHKD
1	TRACER INSTALLATION DETAIL (N-12 PER A4010)	10/18/24	JAM	046000



**FILTER FABRIC DETAIL**  
SCALE: N.T.S.



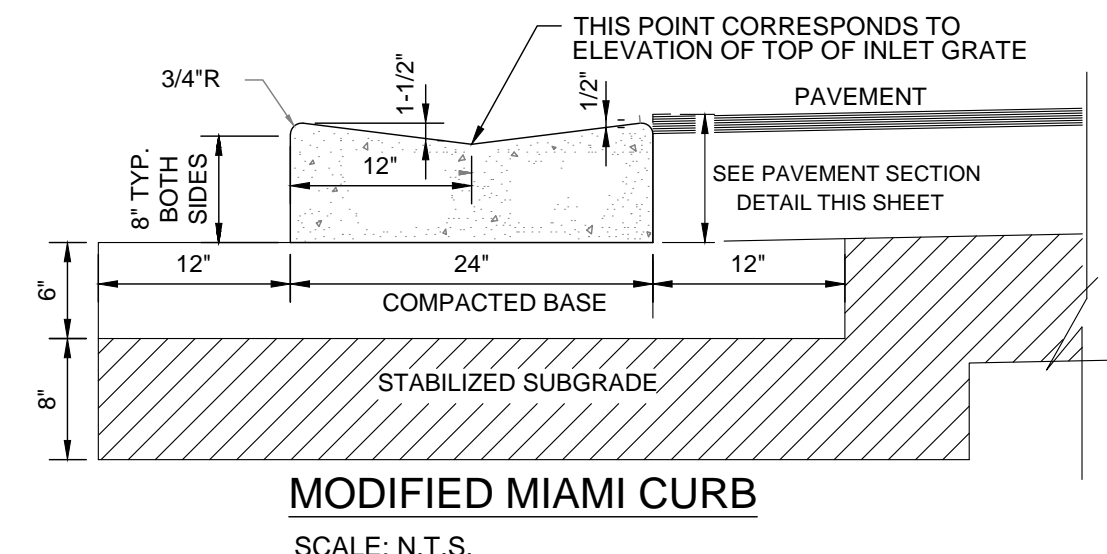
**TYPE 'A' LOT GRADING DETAIL**  
N.T.S.  
(DRAINAGE TO BOTH STREET AND REAR LOT LINE) ALL LOTS



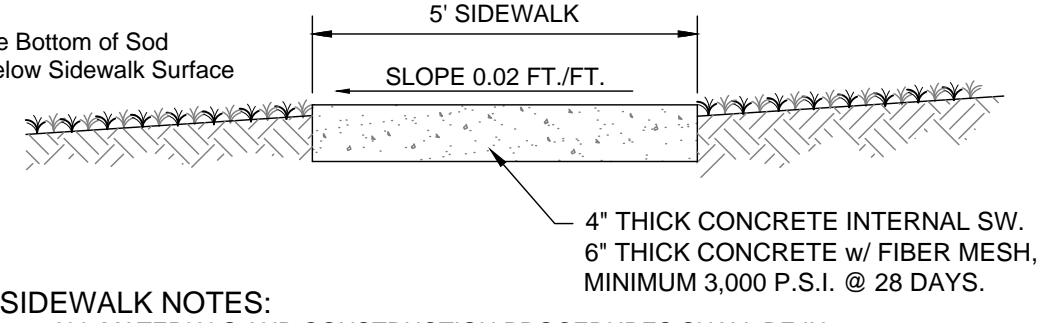
**TYPE 'B' LOT GRADING DETAIL**  
N.T.S.  
(DRAINAGE TO BOTH STREET AND REAR LOT LINE) ALL LOTS

- NOTES:**
1. ALL SLOPES GREATER THAN 1:6 SHALL BE SODDED.
  2. ROOF RUNOFF FROM SIDES AND REAR OF HOUSES SHALL BE DIRECTED TOWARD SIDE AND REAR YARD SWALES ACCORDINGLY.
  3. YARD GRADING MUST BE IN CONFORMANCE WITH FBC.
  4. MIN. FINISHED FLOOR MUST BE 18" ABOVE CROWN OF ROAD.
  5. FINISHED FLOOR ELEV. TO BE APPROVED THROUGH BLDG PERMIT PLOT PLANS.

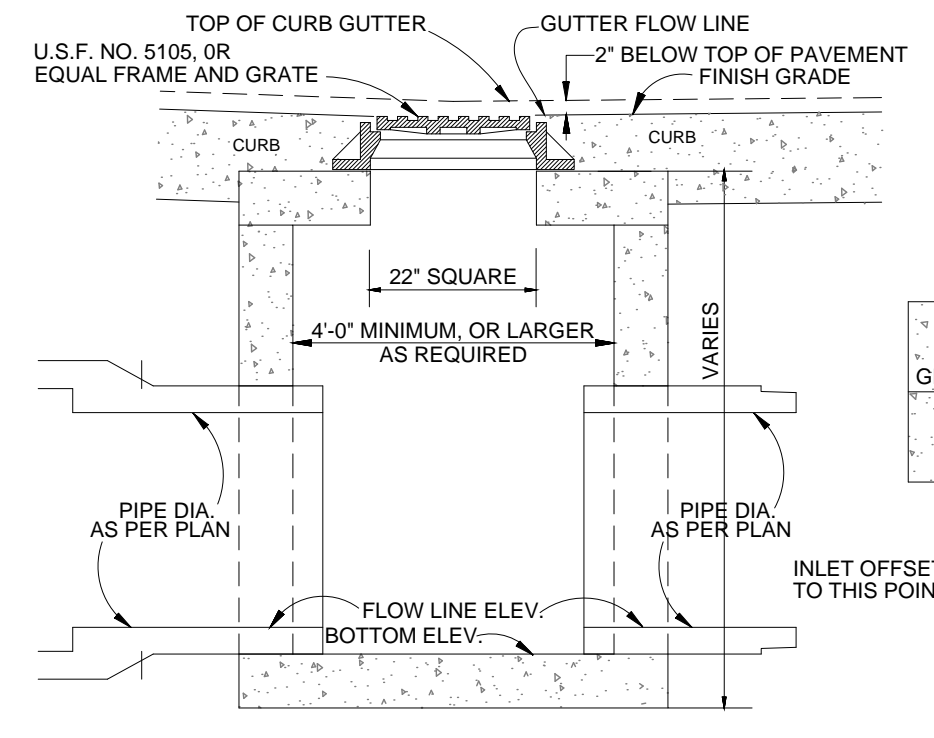
- NOTES:**
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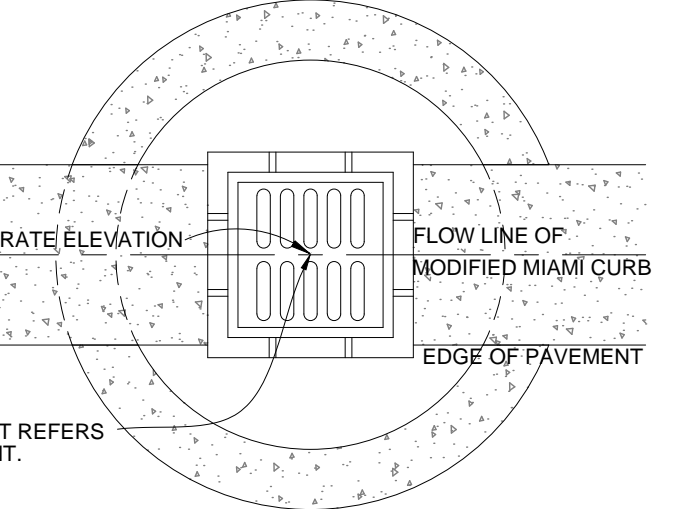
**MODIFIED MIAMI CURB**  
SCALE: N.T.S.



**SIDEWALK DETAIL**  
N.T.S.



**TYPICAL MODIFIED MIAMI CURB INLET**  
SCALE: N.T.S.



**TOP VIEW**

- NOTE:**
1. FOR JUNCTION BOX USE STANDARD STRUCTURE BOTTOM AND TOP SLAB "TYPE P" OR "TYPE J", IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX NO. 200.

**Mills, Short & Associates**  
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700 22nd Place, Suite 3C2D  
Vero Beach, Florida 32960

**STATE OF FLORIDA**  
LICENSE No. 74145  
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
CITY OF FORT PIERCE  
FLORIDA 34945

**GRADING AND DRAINAGE DETAILS**  
CHECKED BY: JWM  
DRAWN BY: KKR

APPROVED BY: JWM  
SCALE: SEE SHEET

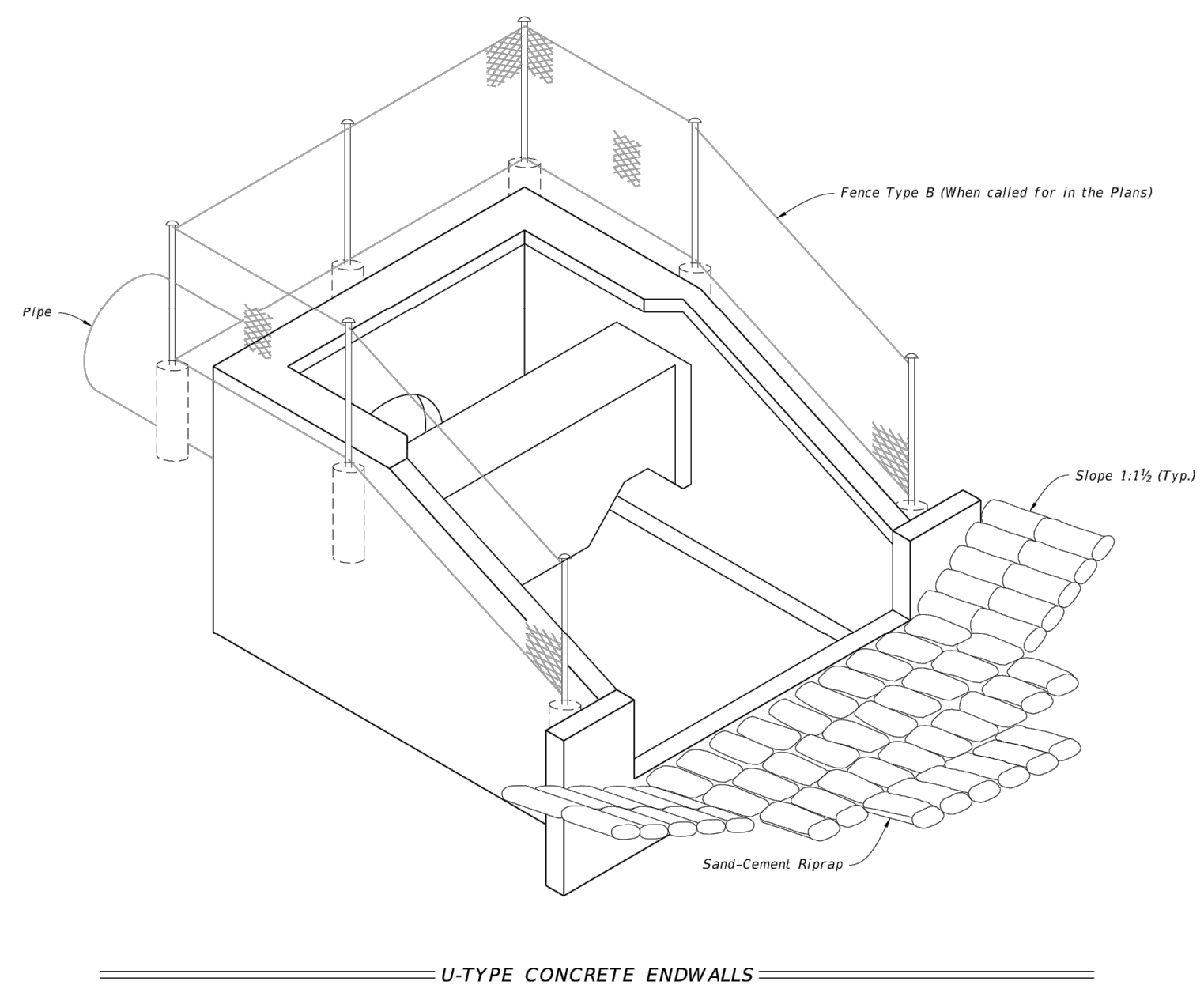
PROJ. NO. 24-170  
DATE 2024.09.24  
SHEET NO.

**C-5A**

- GENERAL NOTES:**
- Use Class II concrete.
  - Chamfer all exposed edges 1/2".
  - See Index 550-002 for details of Type B Fencing.
  - Quantities shown are for estimating purposes only.
  - Install Type D-2 geotextile in accordance with Specification 514.

**TABLE OF CONTENTS:**

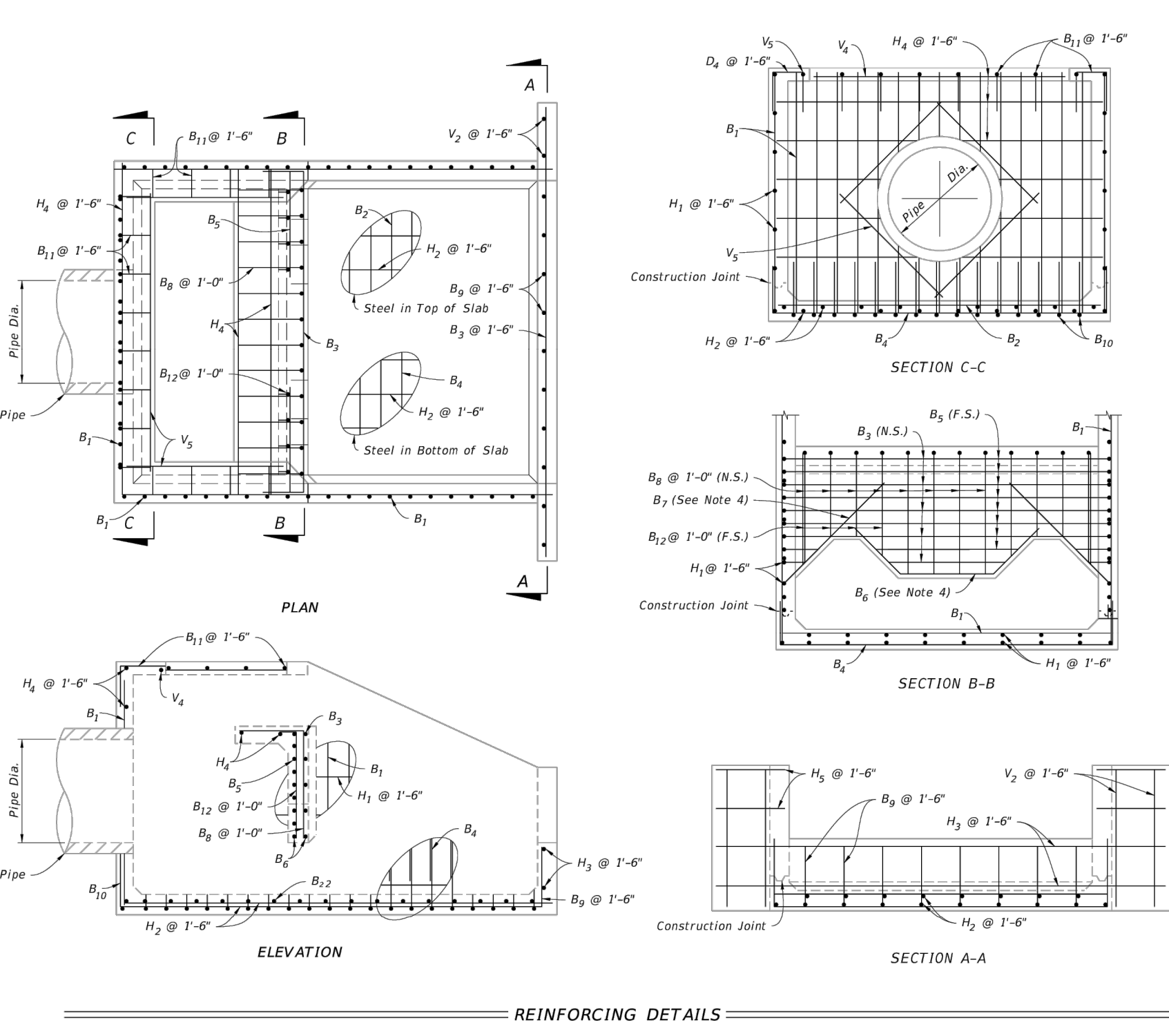
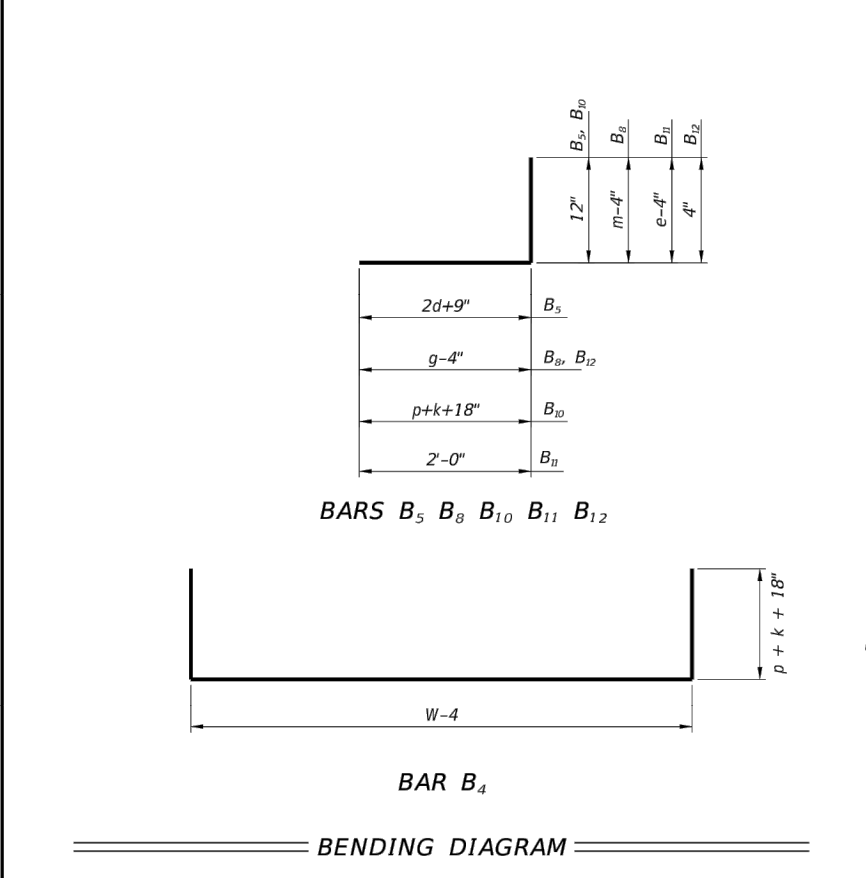
Sheet	Description
1	General Notes and Contents
2	Dimensional Details
3	Reinforcing Details and Bending Diagram



- NOTES:**
- All bar dimensions are measured out to out.
  - All Bars are size #4 unless otherwise noted.
  - Install reinforcing steel with a minimum of 2" cover.
  - Bars B6 and B7 (N.S. and F.S.) equivalent in size to B1 (cut and bend as required).
  - Bars V1, V2, V3, V4, V5, H1, H2, H3, H4, and H5 are straight bars.
- LEGEND:**
- H = Horizontal Bars
  - V = Vertical Bars
  - B = Bent Bars
  - D = Dowels or Diagonal Bars

**BENT BARS TABLE**

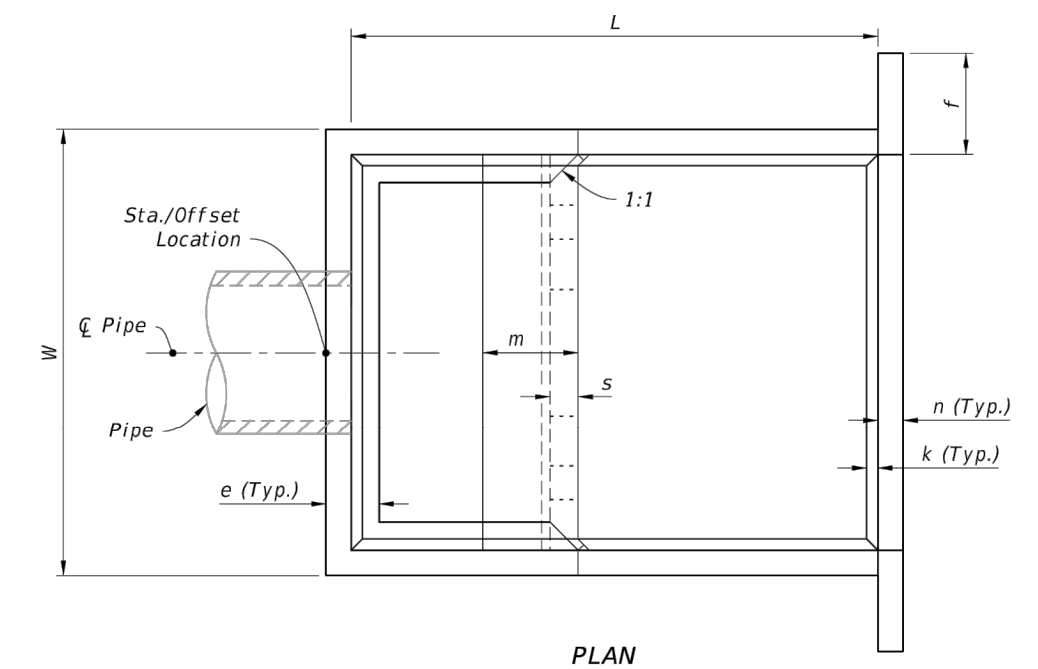
Pipe Size (SP)	B1	B2	B3	B4	B5	B6	B7
30"	4 0-9 1/2	4 1-6	5 0-11	4 0-9 1/2	5 1 0-5 1/2	4 0-9 1/2	
36"	5 1-0	4 1-6	5 0-10	5 1-0	5 0-5 1/2	5 1-0	
42"	5 0-11	4 1-6	6 1-1	5 0-11	6 0-6 1/2	5 0-11	
48"	5 0-9 1/2	4 1-0	6 1-0	5 0-9 1/2	6 0-6	5 0-9 1/2	
54"	5 0-8 1/2	4 0-10	7 1-1	5 0-8 1/2	7 0-6 1/2	5 0-8 1/2	
60"	6 0-10	5 1-1	7 1-0	6 0-10	7 0-6	6 0-10	
66"	6 0-8 1/2	5 0-11 1/2	7 0-11	6 0-8 1/2	7 0-5 1/2	6 0-8 1/2	
72"	6 0-7 1/2	5 0-10	7 0-10	6 0-7 1/2	7 0-5	6 0-7 1/2	



REINFORCING DETAILS AND BENDING DIAGRAM

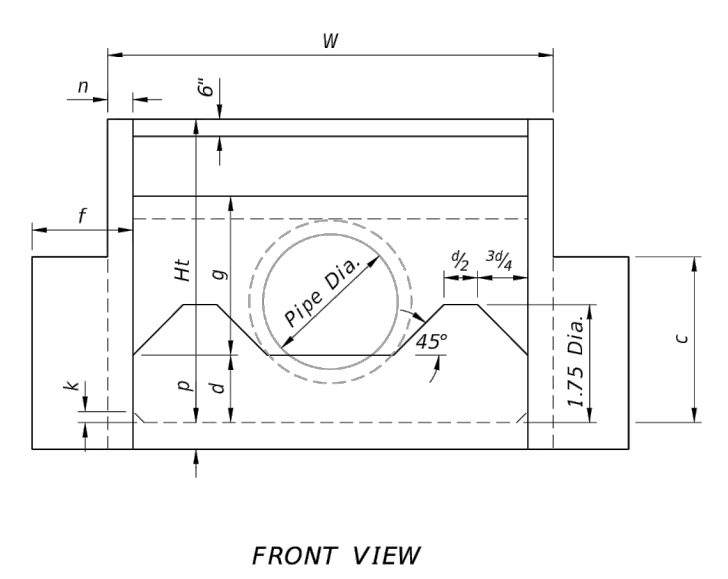
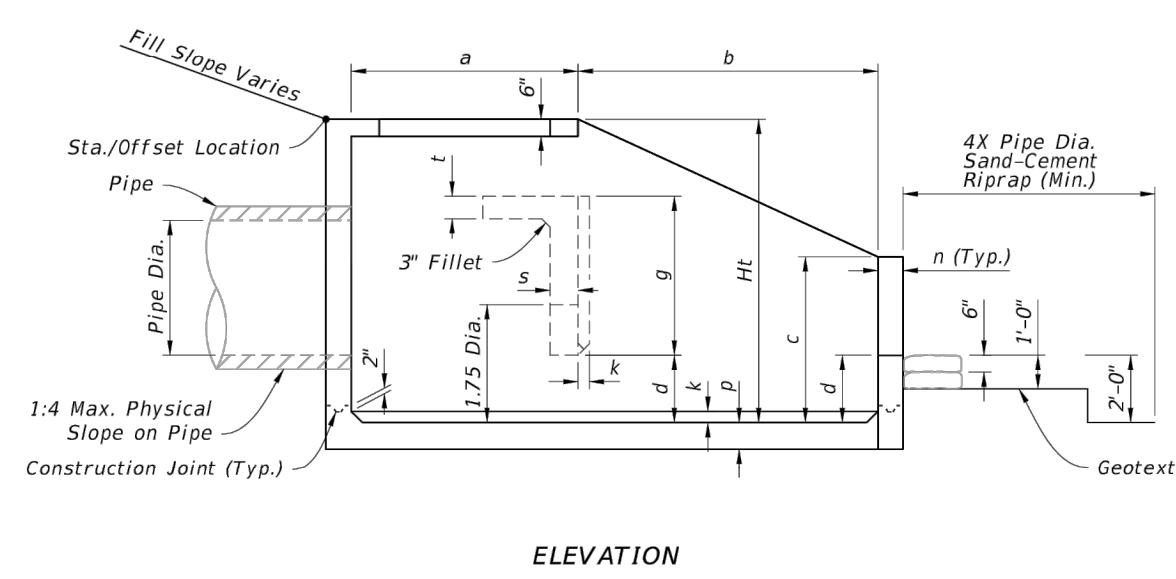
LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/23		430-012	1 of 3

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/23		430-012	3 of 3



**DIMENSION TABLE**

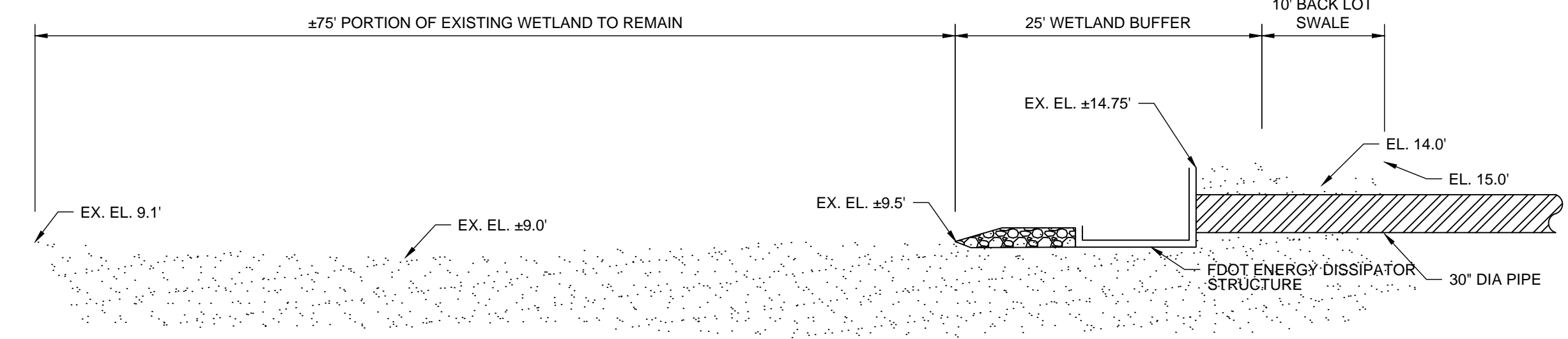
Pipe Dia. (SP)	Feet - Inches													Concrete (CY)	Reinf. Steel (LB)	Sand-Cement Riprap (CY)				
	W	Ht	L	a	b	c	d	e	f	g	m	n	p				s	t	k	
30"	4.91	9-0	6-3	10-8	4-7	6-1	3-4	1-4	1-2	2-6	3-0	1-11	6	6 1/2	7	7	3	6.72	736	10.6
36"	7.07	10-5	7-3	12-4	5-3	7-1	3-10	1-7	1-3	3-0	3-6	2-3	7	7 1/2	8	8	3	10.34	1,072	13.6
42"	9.62	11-10	8-0	14-0	6-0	8-0	4-5	1-9	1-6	3-0	3-11	2-6	8	8 1/2	9	9	4	14.82	1,429	17.5
48"	12.57	13-3	9-0	15-8	6-9	8-11	4-11	2-0	1-7	3-0	4-5	2-10	9	9 1/2	10	10	4	20.36	2,000	22.1
54"	15.90	14-8	9-9	17-4	7-4	10-0	5-5	2-2	1-10	3-0	4-11	3-0	10	10 1/2	11	11	4	27.19	2,659	27.2
60"	13.63	16-1	10-9	19-0	8-0	11-0	5-11	2-5	1-11	3-0	5-4	3-4	11	11 1/2	11	11	6	34.49	3,552	32.5
66"	23.76	17-3	11-4	20-6	8-8	11-10	6-8	2-7	2-1	3-0	5-9	3-7	12	12 1/2	12	12	6	42.82	4,472	38.9
72"	28.27	18-6	12-3	22-0	9-3	12-9	6-11	2-9	2-3	3-0	6-2	3-9	12	12 1/2	12	12	6	50.68	5,426	44.5



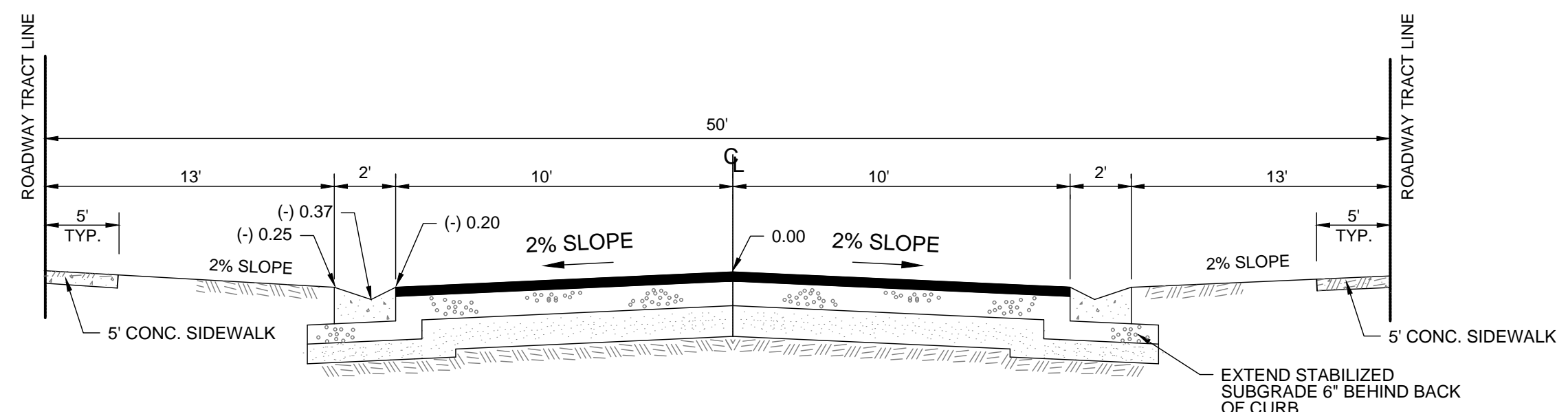
DIMENSIONAL DETAILS

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/23		430-012	2 of 3

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/23		430-012	3 of 3

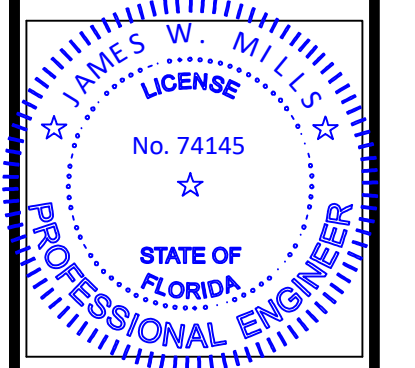


WETLAND OUTFALL LONGITUDINAL CROSS SECTION SCALE: N.T.S.



TYPICAL INTERNAL ROADWAY TRACT SECTION SCALE: N.T.S.

**Mills, Short & Associates**  
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 C.A. #: 30689  
 700 22nd Place, Suite 2C2D  
 Vero Beach, Florida 32960



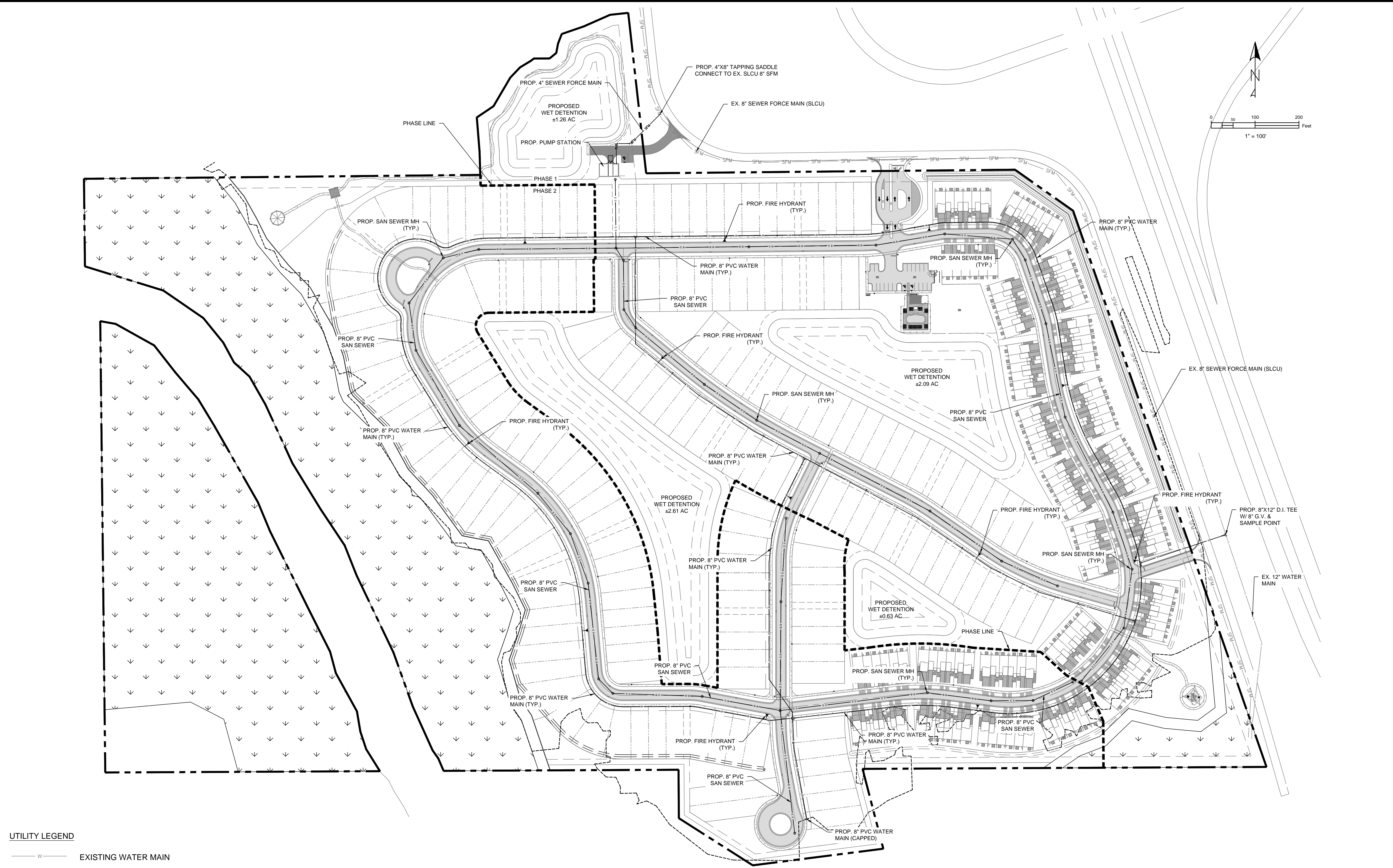
ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET DRAWN BY KKR  
 CHECKED BY JWM  
 APPROVED BY JWM  
 SCALE: SEE SHEET

PROJ. NO.	DATE
24-170	2024.09.24

SHEET NO.

**C-5B**



UTILITY LEGEND

- W — EXISTING WATER MAIN
- SFM — EXISTING SAN. SEWER FORCE MAIN
- W — PROPOSED WATER LINE
- S S — PROPOSED SAN SEWER LINE
- SFM — PROPOSED FORCE MAIN
- PROPOSED SAN SEWER MANHOLE
- PROPOSED FDC
- PROPOSED FIRE HYDRANT

CONTRACTOR'S NOTE:

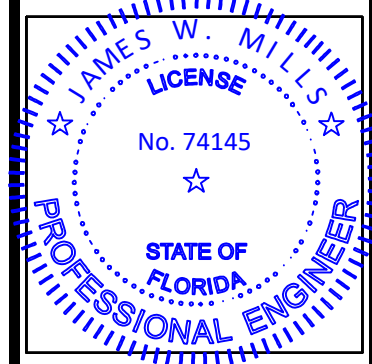
EXISTING UTILITY LOCATIONS ARE BASED ON MAPS FROM ST. LUCIE COUNTY UTILITIES. FIELD VERIFY IMMEDIATELY UPON START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES REGARDING SIZE, LOCATION, AND FEASIBILITY OF TIE-INS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS TO EXISTING UTILITIES.

BENCHMARKS

ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988.

**Mills, Short & Associates**  
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 700 22nd Place, Suite 2C/2D  
 Vero Beach, Florida 32960



ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 CONCEPTUAL UTILITY PLAN

PROJ. NO.	24-170
DATE	2024.09.24
SHEET NO.	

C-6

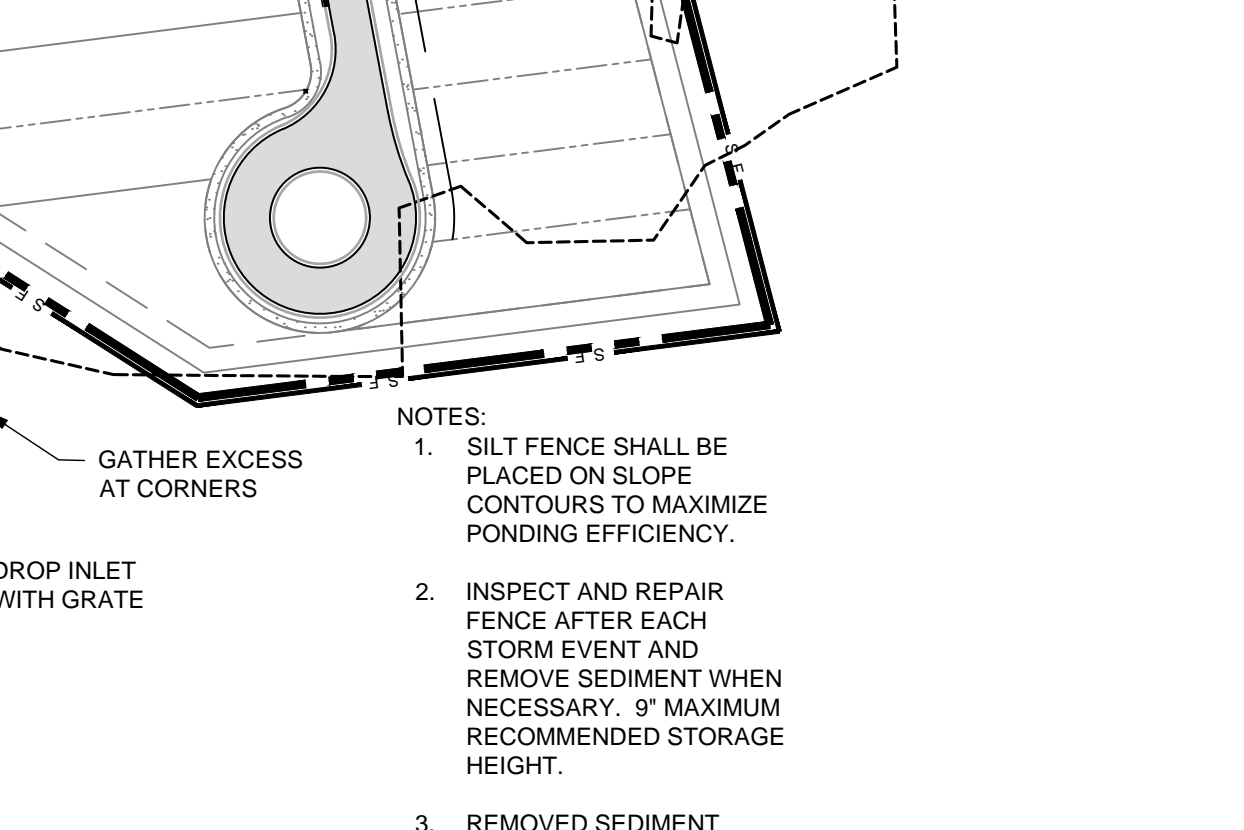
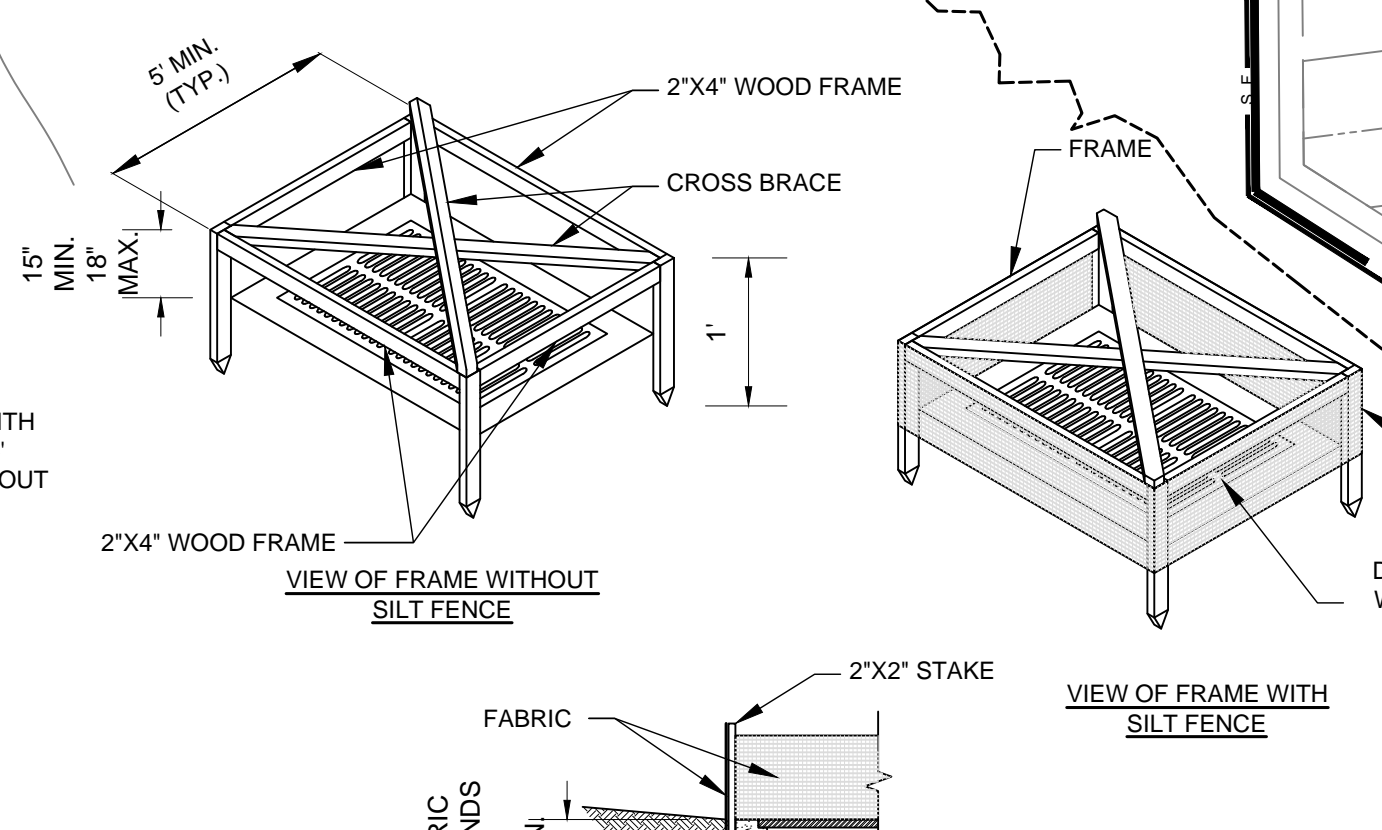
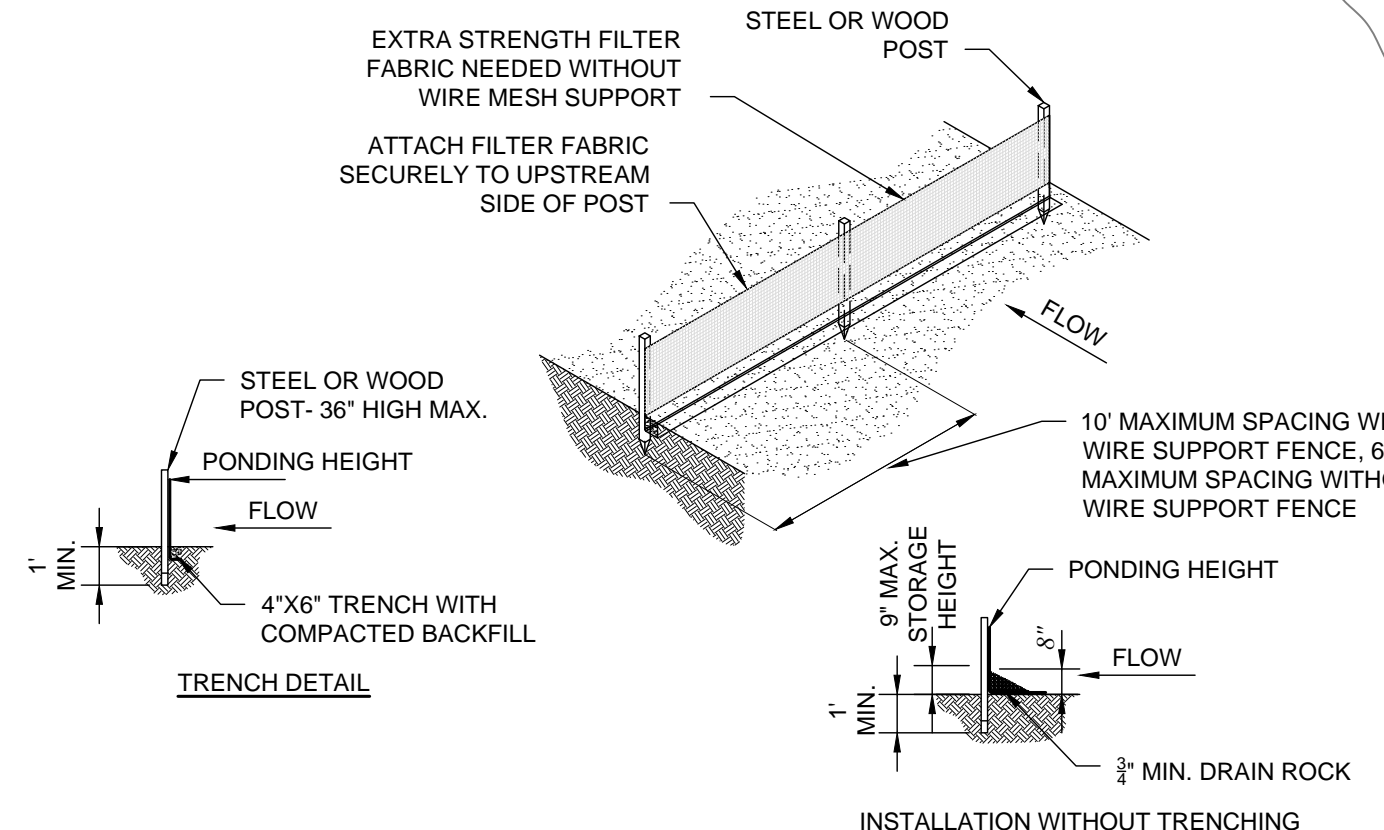
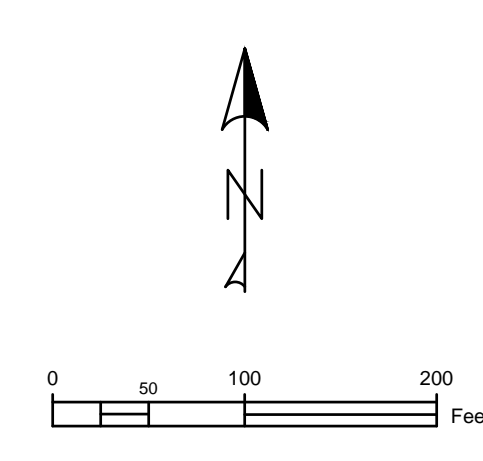
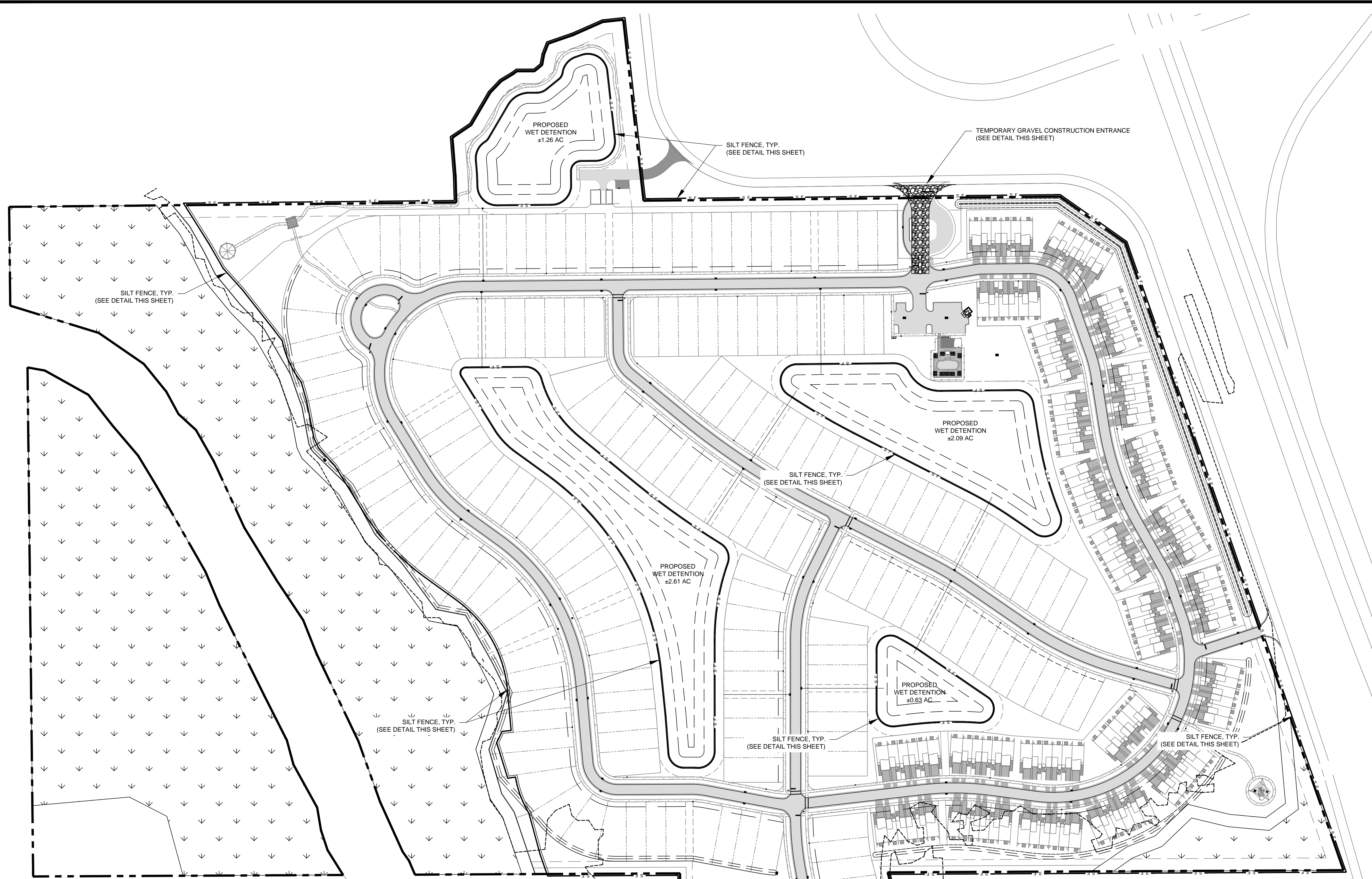
SCALE: SEE SHEET

APPROVED BY JWM

CHECKED BY JWM

DRAWN BY KKR



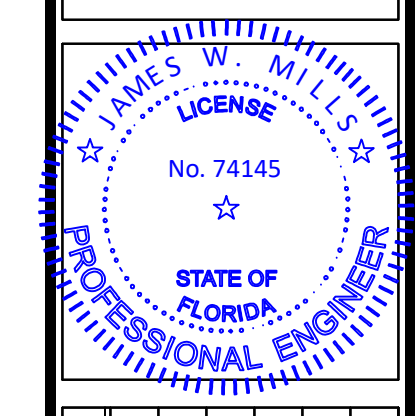


- NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
  2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. IF MAXIMUM RECOMMENDED STORAGE HEIGHT.
  3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT-N.T.S.

SILT FENCE INSTALLATION DETAIL - TYPE IV.  
SCALE: N.T.S.

**Mills, Short & Associates**  
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 Vero Beach, Florida 32960



ISSUE	DATE	COMMENTS

**GORDY CREEK RESIDENTIAL**  
 CITY OF FORT PIERCE  
 FLORIDA 34945  
 THIS SHEET: STORMWATER POLLUTION PREVENTION PLAN  
 DRAWN BY: KKR  
 CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: SEE SHEET

PROJ. NO. 24-170  
 DATE 2024.09.24  
 SHEET NO.

**C-8**