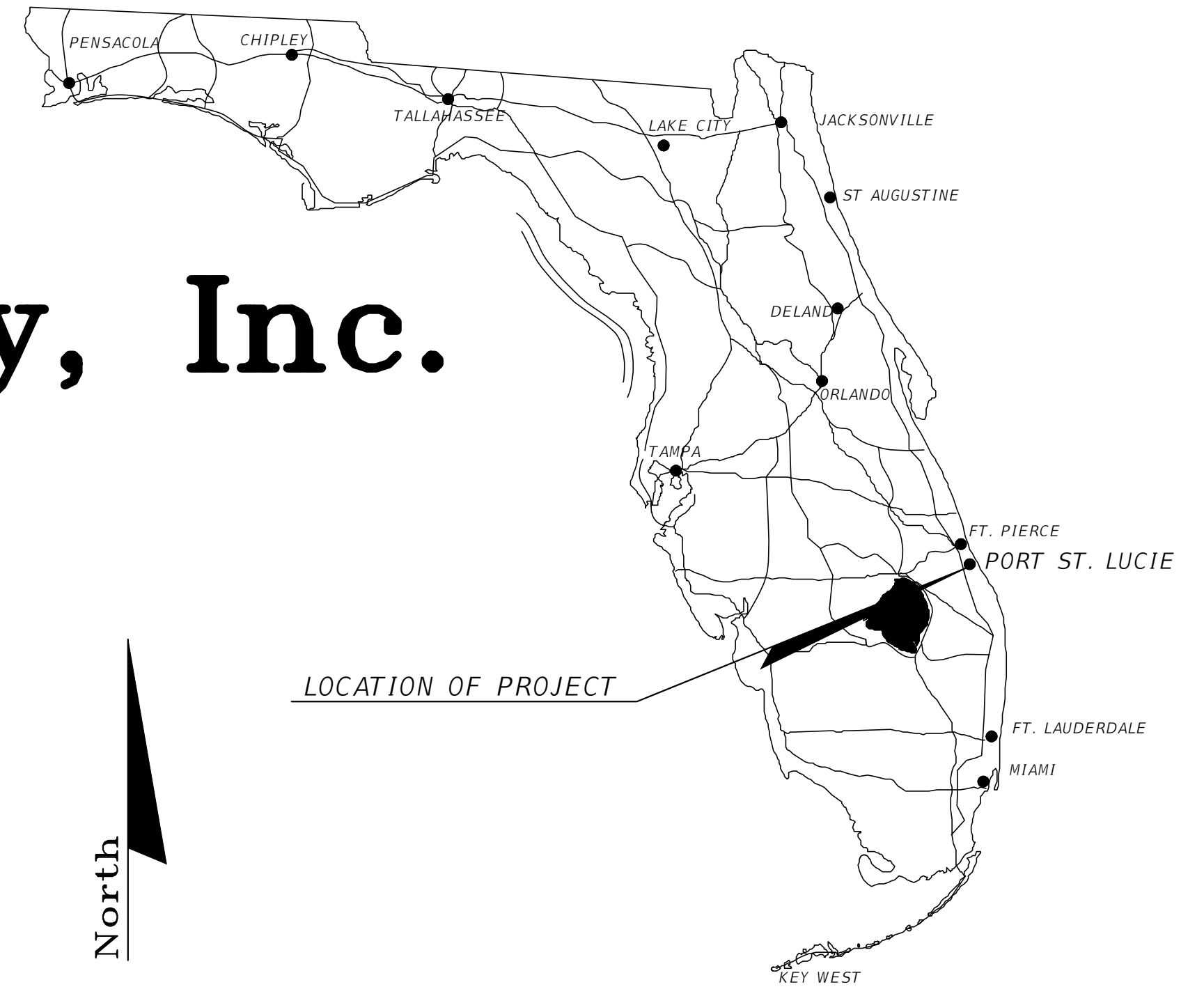


PLANS PREPARED FOR

# ARCO/Murray National Construction Company, Inc.



COMPONENTS OF CONTRACT PLANS SET  
\* ROADWAY CONSTRUCTION PLANS

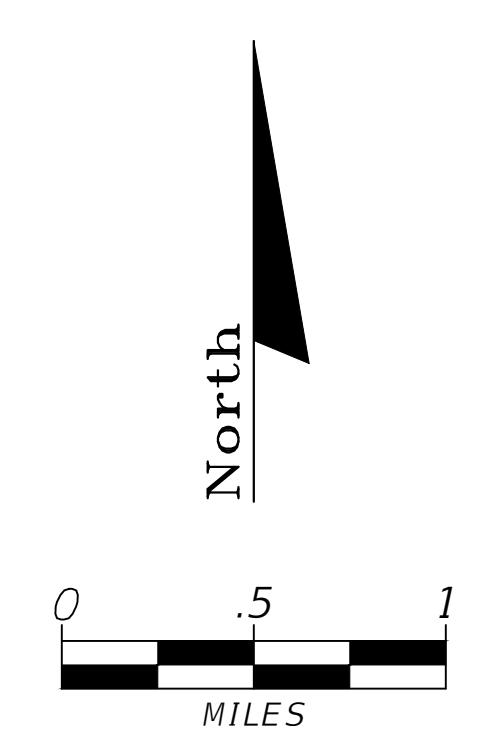
## CONTRACT PLANS

SW PAAR DRIVE

CITY OF PORT ST. LUCIE

### INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEYSHEET
2	GENERAL NOTES & SUMMARY OF PAY ITEMS
3	OFFSITE DRAINAGE PLAN
4	TYPICAL SECTIONS
5	PROJECT LAYOUT
6-7	ROADWAY PLAN & PROFILE SHEETS
8	ROADWAY CROSS SECTIONS
9-10	UTILITY DETAILS
11	TEMPORARY TRAFFIC CONTROL PLANS
12	SIGNING AND PAVEMENT MARKING PLAN



LOCATION OF PROJECT



CONSTRUCTION SHOP DRAWINGS  
TO BE SUBMITTED TO:

STEFAN K. MATTHES, PE  
CULPEPPER & TERPENING, INC.  
2980 SOUTH 25TH STREET  
FORT PIERCE, FLORIDA 34981

PLANS PREPARED BY:



NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

Florida Department of Transportation, FY2020-21 Standard plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website:  
<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs: IR102-600, IR455-003, IR509-070

Standard Plans for Bridge Construction are included in the Structures Plans Component.

Florida Department of Transportation, July 2020 Standard Specifications for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

#### Environmental Statement:

This site was included in the overall Southern Grove DRI and environmental items were addressed as part of that development review process. The project site is currently vacant. According to the environmental summary assessment from October 2020, there are no environmentally sensitive lands or regulated wetlands on site. No wildlife, or evidence of wildlife, including that from the list of state and federally protected species, rare, threatened, endangered, or species of special concern was observed on the property. No portions of the property appear to be environmentally sensitive.

Description	Found (Yes/No)	Agency Contact Information	Management Plan (Yes/No)	Relocation Plan (Yes/No)
Wetlands	Yes		*Yes	*Yes
Rare Habitat	No			
Threatened Species	Yes		No	No
Endangered Species	No			
Species of Special Concern	No			
Invasive /Exotic Vegetation	Yes		N/A	N/A

\*See existing permits: SFWMD 56-01544-P, 56-0279-P, and 56-02531-P / USACE SAJ-

REVISIONS

LENGTH OF PROJECT		
	LIN. FT.	MILES
UTILITY	0 LF	0.000
ROADWAY	1,921.47 LF	0.364
BRIDGES	0 LF	0.000
EXCEPTIONS		
GROSS LENGTH OF PROJ.	1,921.47 LF	0.364

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

60% CONSTRUCTION PLANS  
APRIL 2, 2021

ROADWAY PLANS  
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E.  
P.E. NO. : 38723

PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059

C&T JOB NO.: 21-023

FISCAL YEAR	SHEET NO.
21	1

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
101-1A	MOBILIZATION/GENERAL CONDITIONS/BONDS	LS	1
101-1B	CONSTRUCTION STAKEOUT & AS-BUILT SURVEY	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	3,820
104-11	FLOATING TURBIDITY BARRIER	LF	40
104-15	SOIL TRACKING PREVENTION DEVICE	EA	1
104-18	INLET PROTECTION SYSTEM	EA	2
110-1	CLEARING & GRUBBING	AC	14
120-1	REGULAR EXCAVATION	CY	5,835
120-3	LATERAL DITCH EXCAVATION	CY	47,000
120-6	EMBANKMENT	CY	30,800
160-4	TYPE B STABILIZATION (12" THICK)	SY	12,040
285-710	OPTIONAL BASE, BASE GROUP 09 (LBR 100(0)" THICK)	SY	9,900
327-70-1	MILLING EXISTING ASPH PAVT, 1" AVG DEPTH	SY	534
334-1-13	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-12.5) (8" THICK)	TON	1,666.0
337-7-82	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (PC-9.5) (1.5" THICK)	TON	803.0
400-1-2	CONCRETE CLASS 1, ENDWALLS	CY	4.5
425-1-351	INLETS, CURB, TYPE P5, <10"	EA	2
425-1-361	INLETS, CURB, TYPE P6, <10"	EA	6
425-1-361	INLETS, DITCH BOTTOM, TYPE E, <10"	EA	2
425-2-61	MANHOLE P7, <10"	EA	4
425-2-71	MANHOLE P7, <10"	EA	1
430-174-118	PIPE CULVERT, OPTIONAL, ROUND, 18"	LF	245
430-174-124	PIPE CULVERT, OPTIONAL, ROUND, 24"	LF	371
430-174-130	PIPE CULVERT, OPTIONAL, ROUND, 30"	LF	406
430-174-136	PIPE CULVERT, OPTIONAL, ROUND 36"	LF	77
430-174-172	PIPE CULVERT, OPTIONAL, ELLIPTICAL 14" x 23"	LF	150
430-174-218	PIPE CULVERT, OPTIONAL, ELLIPTICAL 14" x 23"	LF	80
430-982-130	MITERED END SECTION, OPTIONAL, ROUND 30"	EA	2
430-982-172	MITERED END SECTION, OPTIONAL, ROUND 72"	EA	2
430-982-623	MITERED END SECTION, OPTIONAL, ELLIPTICAL 14" x 23"	EA	2
446-1-1	EDGE DRAIN DRAINAGE STANDARD	LF	2,330
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	2,610
522-1	CONCRETE SIDEWALK/PADS, 4" THICK	SY	3,541
522-2	CONCRETE DRIVEWAY, 6" THICK	SY	27
570-1-2	DETECTABLE MAT	SY	72
570-1-1	PERFORMANCE TURF, SEED & MULCH (LATERAL DITCHES)	SY	28,000
570-1-2	PERFORMANCE TURF, SOD	SY	20,844
590-70	LANDSCAPE COMPLETE - STREET TREES	EA	106
590-80	IRRIGATION SYSTEM	LS	1
700-1-11	SINGLE POST SIGN, F&I GM, < 12 SF	EA	25
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	EA	138
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	4,620
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	312
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	182
711-11-141	THERMOPLASTIC, STANDARD, WHITE, SKIP (10 - 30)	LF	160
711-11-160A	THERMOPLASTIC, STANDARD, WHITE, MESSAGE (MERGE)	EA	2
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	15
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	3,600
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	40
715-2-115	2" CONDUIT (F&I) (UNDERGRD, PVC SCHEDULE 40)	LF	5,680
633-1123	FIBER OPTIC CABLE (96 STRAND)	LF	1,900
633-2-11	PULL & SPLICE BOX (F&I) 13" x 24" COVER	EA	5
1030-31208C	UTILITY PIPE, PVC, F&I, 12" WATER MAIN	LF	140
1030-31212	UTILITY PIPE, PVC, F&I, 24" WATER MAIN	LF	1920
1080-24108B	UTILITY FITTURE - VALVE ASSEMBLY, F&I, 12" WM	EA	1
1080-24112	UTILITY FITTURE - VALVE ASSEMBLY, F&I, 24" WM	EA	4
1080-24113	UTILITY FITTURE - WATER MAIN JUMPER	EA	1
1080-32102	UTILITY FITTURE - SAMPLE POINT	EA	3
1644-112-06	FIRE HYDRANT ASSEMBLY w/ VALVE & FITTINGS	EA	5
2000-1	UTILITY FITTURE - FITTINGS	TON	4
2000-2	24" WATER MAIN CONNECTION	EA	1

**GENERAL NOTES**

- BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
- ALL DRAINAGE INFRASTRUCTURE IS TO REMAIN UNLESS OTHERWISE NOTED.
- ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
- STATIONING AND OFFSETS REFER TO THE BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE CITY SURVEYOR RICK COMPITELLO, WITHOUT DELAY, BY TELEPHONE (772) 871-5280.
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A "NOTICE TO PROCEED".
- DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
- IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:
  - THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN ON THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS AS REQUIRED.
  - FOR EXISTING UTILITY SYMBOLS, SEE FDOT STANDARD INDEX 002.
  - WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY ADOPTED BY THE STATE OF FLORIDA D.E.P. AND PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD).
- CONTRACTOR SHALL USE EXTREME CAUTION AND COMPLY WITH ALL APPLICABLE OSHA REGULATIONS WHEN WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND UTILITY LINES.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS (OR 10 DAYS IF ON THE JOB SITE)
 

COMPANY	CONTACT	TEL. NO.
AT&T	IVAN ARILL	(772) 460-4441
COMCAST CABLE	RICK JOHNSON	(561) 402-4513
FLORIDA POWER & LIGHT, CO.	DIANA VILLEGAS	(772) 337-7011
PSLUSD	LANEY SMITHERLY, P.E.	(772) 807-4452
CITY OF PSL TRAFFIC OPS	PAUL JOHNSON	(772) 871-5182
- (NOTE: IF THERE IS A TRAFFIC MONITORING SITE ON THE PROJECT OR WITHIN ONE MILE OF THE CONSTRUCTION, THE TRANSPORTATION STATISTICS OFFICE IN TALLAHASSEE SHALL BE ADDED TO THE LIST OF UTILITY OWNERS.)
- WHEN UTILITY POLES ARE IN AREAS OF EXCAVATIONS, CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION OF FIVE (5) FEET BETWEEN THE POLE AND ANY EXCAVATION.
- ALL SYNTHETIC BALES AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND WHEN APPROVED BY THE MPDES INSPECTOR.
- IF DEWATERING PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A DEWATERING PERMIT OR WATER USE PERMIT AND ALLOW TIME FOR THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND/OR FDEP TO REVIEW AND APPROVE THE PERMIT PRIOR TO THE CONSTRUCTION START DATE. IF DEWATERING PUMPS ARE REQUIRED TO RUN OVERNIGHT THE CONTRACTOR IS REQUIRED TO OBTAIN A NOISE PERMIT PER CITY CODE SECTION 94.07.
- WORK HOURS ARE FROM 7:00 AM TO DUSK, MONDAY-FRIDAY, WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY THE CITY OF PORT ST. LUCIE UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE CITY. THE CONTRACTOR MUST RECEIVE WRITTEN PERMISSION FROM THE CITY AND PROVIDE AN APPROVED MOT PLAN BEFORE ANY LANE CLOSURES OCCUR.
- THE MAXIMUM CROSS SLOPES ON ALL SIDEWALKS IS 2%. ALL TRANSITIONS BETWEEN PROPOSED SIDEWALKS AND EXISTING SIDEWALKS SHALL BE SMOOTH AND LEVEL. DURING CONSTRUCTION ALL EXISTING PEDESTRIAN AND VEHICULAR PATHS MUST REMAIN USABLE AND ACCESSIBLE, OR ALTERNATE PATHS MUST BE PROVIDED.
- THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLANS OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- THE SIDEWALK MUST BE FREE OF OVERHEAD OBSTRUCTIONS PER SECTION 4.4.2 OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). CONTRACTOR SHALL ASSURE THAT NO OBSTRUCTION (UTILITY POLE, EQUIPMENT, SIGN, STRUCTURE, TREE, GRATE, ETC.) RESTRICTS ACCESS ALONG SIDEWALK TO A PATH LESS THAN 48".
- THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE PROJECT ENGINEER.
- EXISTING LANDSCAPE IMPROVEMENT THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS ARE TO BE RELOCATED PER THE DIRECTION OF THE ENGINEER OF RECORD.
- LANE CLOSURES ALONG BECKER ROAD OR VILLAGE PARKWAY SHALL BE COORDINATED WITH THE CITY OF PORT ST. LUCIE.

- GENERAL GRADING GUIDELINES FOR SWALE AND SODDED AREAS:
  - DRAINAGE FLOW SYMBOLS SHOWN ON THE PLAN SHEETS ARE INTENDED TO PROVIDE GENERAL DIRECTION WITH RESPECT TO THE INTENDED FLOW OF THE SODDED AREAS.
  - CONTRACTOR IS TO GRADE ALL SWALE AND SODDED AREAS WITHIN THE LIMITS OF CONSTRUCTION TO THE RESPECTIVE INLET AS DIRECTED BY THE FLOW ARROWS WHILE MINIMIZING DISTURBANCE TO EXISTING VEGETATION AND PRIVATE PROPERTY.
  - FLOW ARROWS REPRESENT A MINIMUM OF 0.15% SLOPE UNLESS OTHERWISE NOTED ON THE PLANS.
- IN REFERENCE TO THE PROPOSED DRAINAGE STRUCTURES & PIPE:
  - CONCRETE PIPE CULVERT (R.C.P.) SHALL BE CLASS II, WALL B UNLESS OTHERWISE NOTED.
  - ALL STORM STRUCTURE TOPS SHALL BE ADJUSTED AT TIME OF FINAL PAVEMENT OF CURB CONSTRUCTION. FINAL ADJUSTMENT OF ALL TOPS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE LENGTHS OF PIPE SHOWN HEREON HAVE BEEN DETERMINED BY CALCULATING THE DISTANCE BETWEEN THE "CENTERLINE" OF THE INLETS AND/OR MANHOLES.
  - OFFSETS TO CURB INLETS ARE TO THE "CENTERLINE" OF THE INLETS.
- EXCAVATED SOILS MAY BE USED FOR EMBANKMENT CONSTRUCTION PROVIDED THAT THE MATERIAL IS CLEAN FILL, FREE OF ORGANIC MATERIALS, ROOTS OR OTHER DELETERIOUS MATERIALS, AND CONFORMS WITH FDOT SPECIFICATIONS AND FDOT STANDARD INDEX 505 AND IS APPROVED BY THE CITY CONSTRUCTION ENGINEER.
- ANY BORROW MATERIAL REQUIRED FOR THE PROJECT SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HIM, AND THE COST OF FURNISHING SUCH MATERIAL SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR EARTHWORK AND GRADING.
- ALL MUCK AND PLASTIC MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT INDEX 500.
- ALL VEGETATION, DEBRIS, PAVEMENT, CONCRETE OR OTHER UNSUITABLE MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA PROVIDED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLAN DIMENSIONS AND SITE CONDITIONS, AND IS TO NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES BETWEEN SITE CONDITION AND INFORMATION SHOWN ON PLANS PRIOR TO COMMENCEMENT OF WORK.
- ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECT HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT THE PROJECT ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDIATION OF THE MATERIAL IN QUESTION AS NEEDED. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER. THE REGULATORY AUTHORITY WILL ADVISE THE PROJECT ENGINEER IN THESE MATTERS.
- THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE PROJECT ENGINEER PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT
- ALL AREAS DESIGNATED FOR PAVEMENT REMOVAL SHALL BE SAW-CUT AT THE LIMITS OF REMOVAL ADJACENT TO EXISTING PAVEMENT WHICH IS TO REMAIN.
- ALL WORK ASSOCIATED WITH THIS PROJECT IS TO BE PERFORMED WITHIN THE RIGHT-OF-WAY LIMITS OR TEMPORARY CONSTRUCTION EASEMENTS AS DEPICTED ON THE PLAN SHEETS.
- ALL ADA WARNING SURFACES ARE TO BE CAST IN PLACE.
- ALL CONCRETE SIDEWALK JOINTS SHALL BE TOOLED WITHOUT EXPANSION JOINTS.

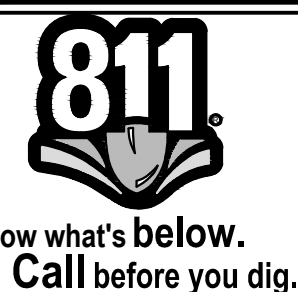
PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059

STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723

**SW PAAR DRIVE**

**GENERAL NOTES & SUMMARY OF PAY ITEMS**

DATE: 04/02/2021  
HORIZ. SCALE: SCALE  
VERT. SCALE: SCALE  
JOB NO. 21-023  
SHEET 2 of 12



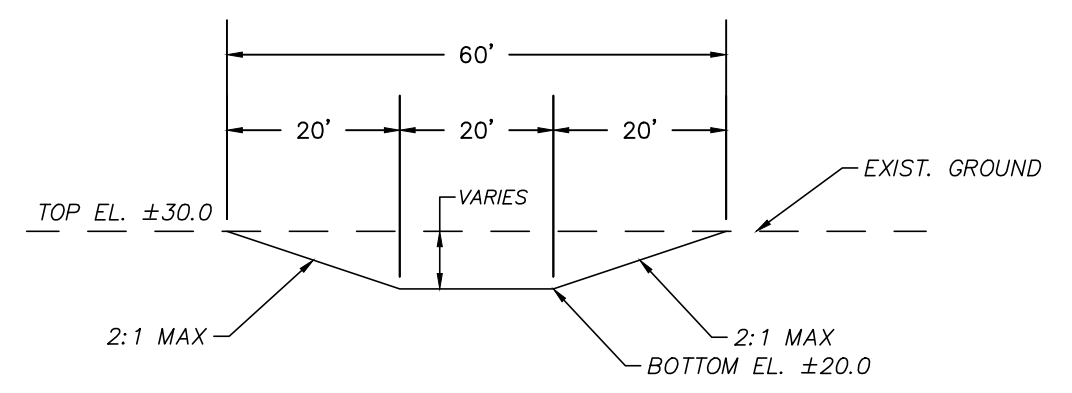
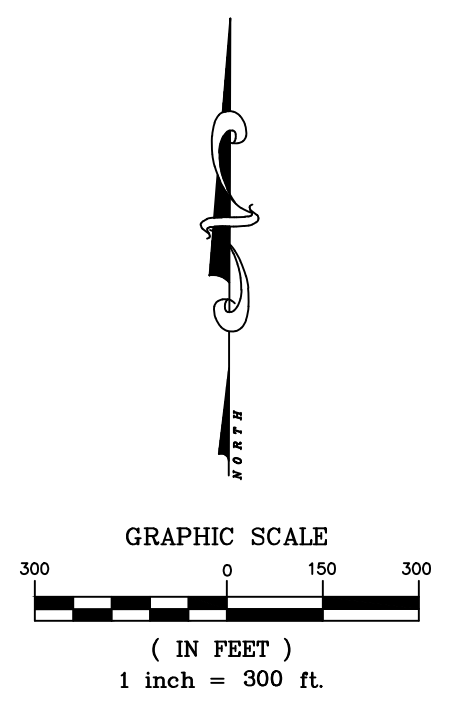
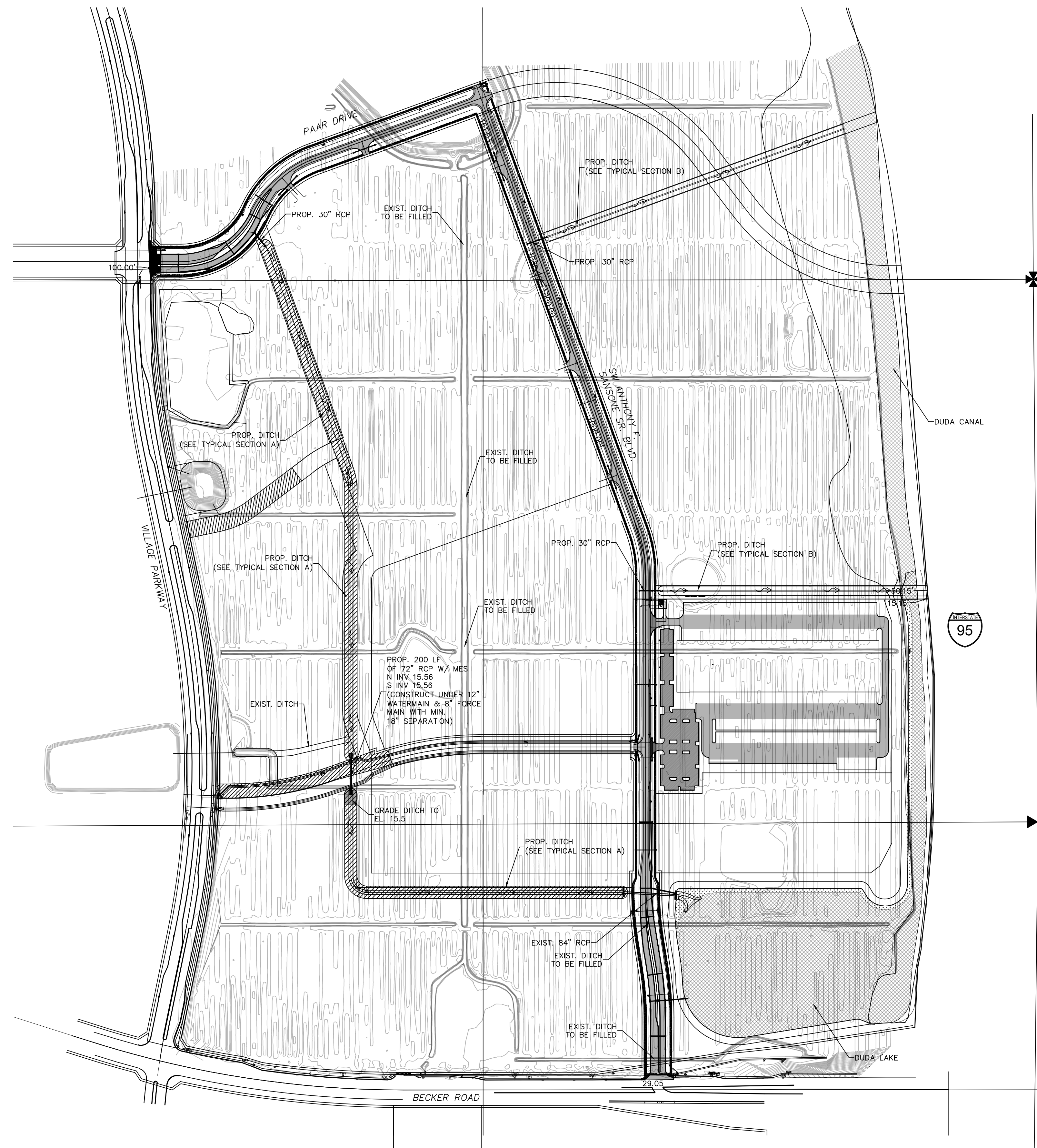
NOTES:  
1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.

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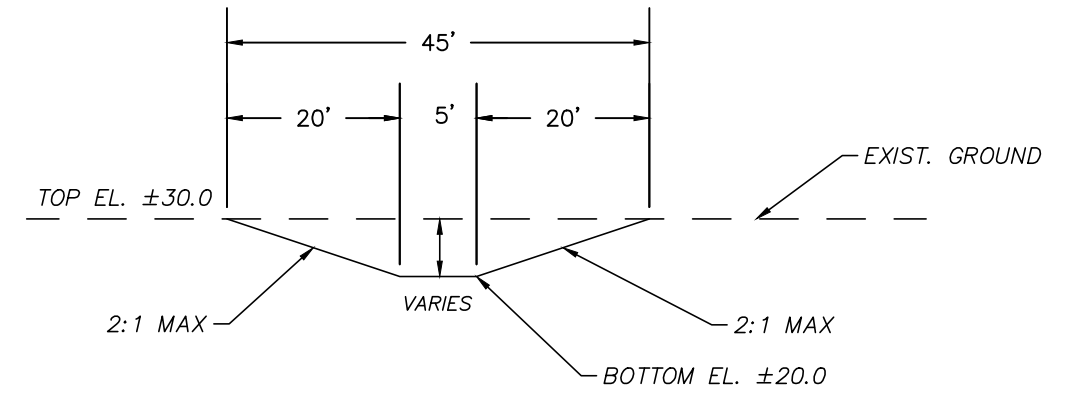
**CULPEPPER & TERPENING INC**  
2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981  
PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com  
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- REVISIONS -		BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		



PROPOSED DITCH  
TYPICAL SECTION A



PROPOSED DITCH  
TYPICAL SECTION B

PHASE 2 CONSTRUCTION  
NOT PART OF CURRENT CONSTRUCTION PROJECT  
OR SFWMD PERMIT  
\*ONLY ROUGH GRADING AND UTILITIES SHOWN ARE PART OF  
CURRENT PHASE OF CONSTRUCTION

NOTES:  
1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.

COMPUTER FILE REF.	FIELD BK./PG.

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 STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- REVISIONS -		BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DP	3-29-21
DETAILED		
CHECKED	SKM	3-29-21
APPROVED	SKM	3-29-21

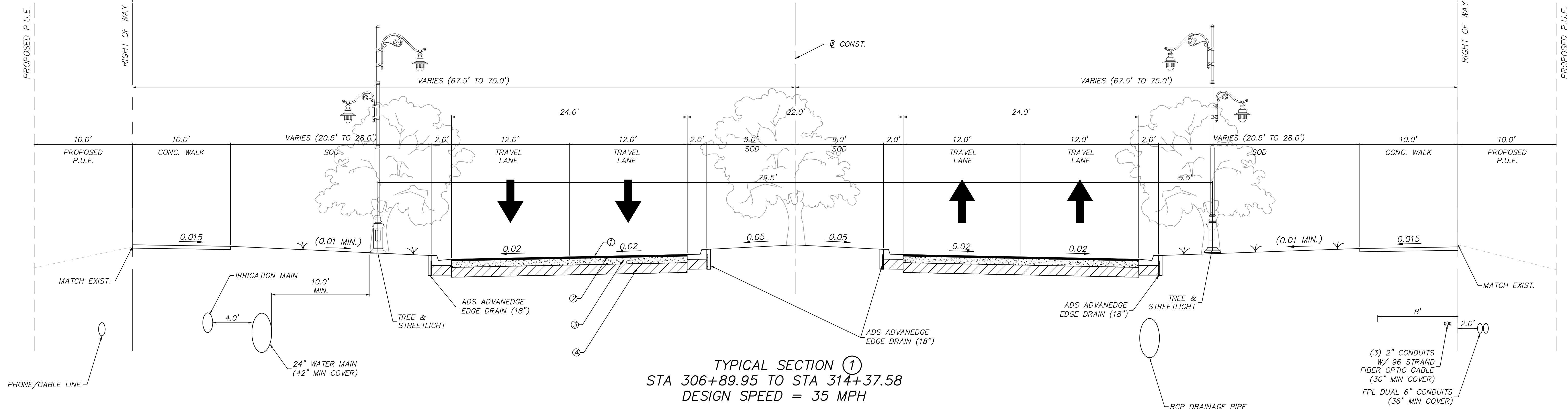
SW PAAR DRIVE  
OFFSITE DRAINAGE PLAN

DATE: 3-29-21  
 HORIZ. SCALE: 1"=300'  
 VERT. SCALE: N/A  
 JOB No. 21-023  
 SHEET 3 of 12



STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723

VARIES (150.0' TO 135.0') RIGHT-OF-WAY



**TYPICAL SECTION ①**  
 STA 306+89.95 TO STA 314+37.58  
 DESIGN SPEED = 35 MPH

**ASPHALT PAVEMENT (SN=4.74)**

- ① TYPE FC-9.5 FRICTION COURSE (TRAFFIC LEVEL C) (1.5") (SN=0.66)
- ② TYPE SP-12.5 STRUCTURAL COURSE (3" THICK) (SN=1.32)
- ③ OPTIONAL BASE GROUP 9 (SN=1.8)
- ④ 12" TYPE 'B' STABILIZATION (SN=0.96)

**MILL & RESURFACE ASPHALT PAVEMENT**

- TYPE FC-9.5 STRUCTURAL COURSE (TRAFFIC LEVEL C) (1.0")
- MILL EXISTING PAVEMENT (1.0")

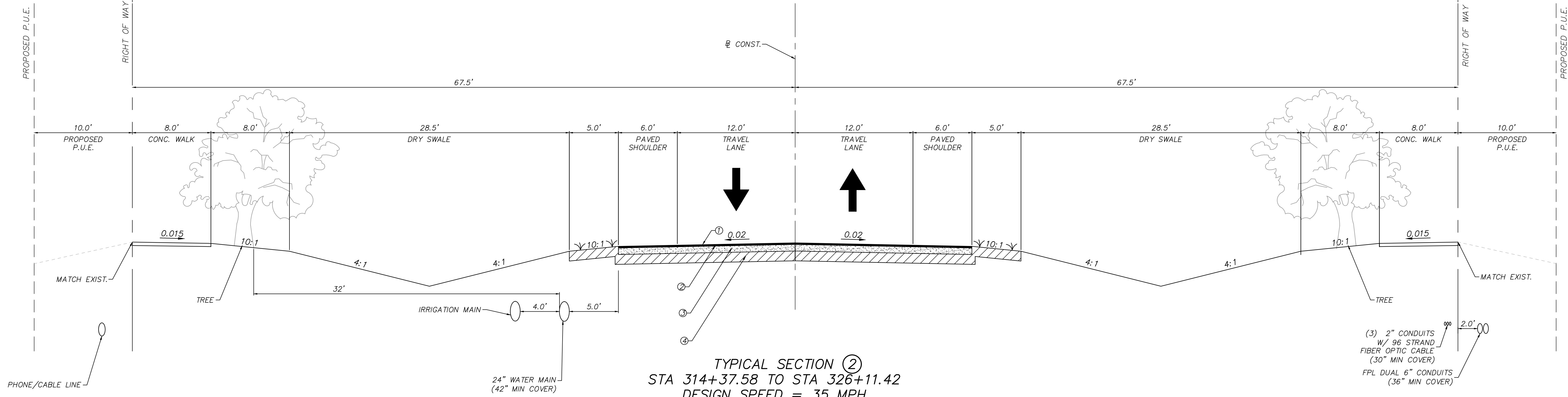
**NOTES:**

1. SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS AND SLOPES INDICATED AS "VARIES."
2. ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING.
3. MAXIMUM SIDEWALK SLOPE IS 2.0%
4. PROPOSED LANDSCAPE IMPROVEMENTS AND MULTIMODAL PATH SEE PLANS BY LUCIDO & ASSOCIATES.
5. PLACE STREET TREES ON 40' CENTERS.

**TRAFFIC DATA**

CURRENT YEAR	= 2020 AADT = NA
ESTIMATED OPENING YEAR	= 2021 AADT = NA
ESTIMATED DESIGN YEAR	= 2022 AADT = NA
DESIGN SPEED	= 35 MPH

135.0' RIGHT-OF-WAY



**TYPICAL SECTION ②**  
 STA 314+37.58 TO STA 326+11.42  
 DESIGN SPEED = 35 MPH

**NOTES:**  
 1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.

COMPUTER FILE REF.	FIELD BK./PG.

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 STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- REVISIONS -		
NO.	BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

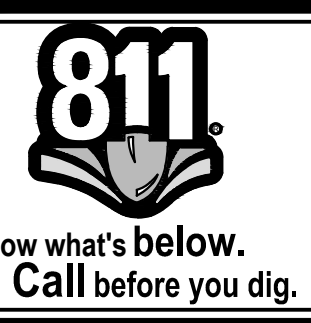
**SW PAAR DRIVE**  
**TYPICAL SECTIONS**

DATE: 04/02/2021
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 21-023
SHEET 4 of 12

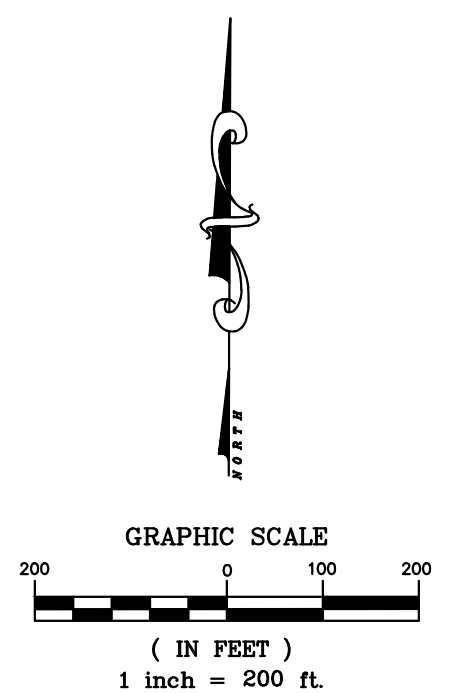
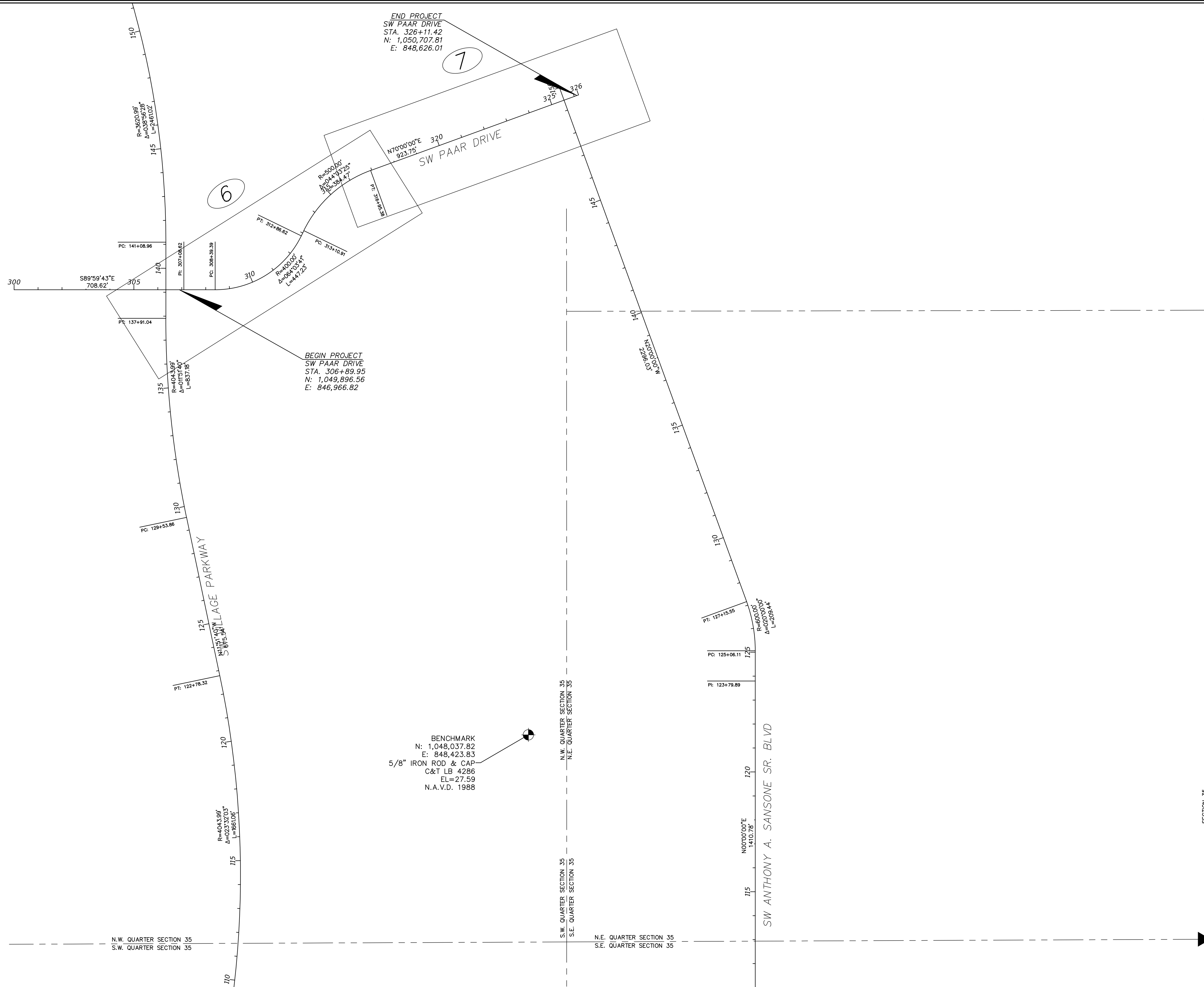
PSLUSD PROJECT NO. 5360C  
 CITY OF PSL PROJECT NO. P21-059

STEFAN K. MATTHEWS, P.E.  
 FL. REG. NO. 38723

P:\Proj-2021\21-020 Typ Sec.dwg Plotted: 4/2/2021 3:20 PM By: DONNE PINKERTON



P:\Proj\2021\21-020 Arco - SW Anthony Sansone (Phase 1)\Eng\21-020 Project\Layout.dwg Plotted: 4/7/2021 3:20 PM By: DONNIE PINKERTON



**LEGEND**  
 # SHEET NO. #  
 ◉ BENCHMARK

PSLUSD PROJECT NO. 5360C  
 CITY OF PSL PROJECT NO. P21-059  
 STEFAN K. MATTHEWS, P.E.  
 FL. REG. NO. 38723



**NOTES:**  
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COMPUTER FILE REF.	FIELD BK./PG.

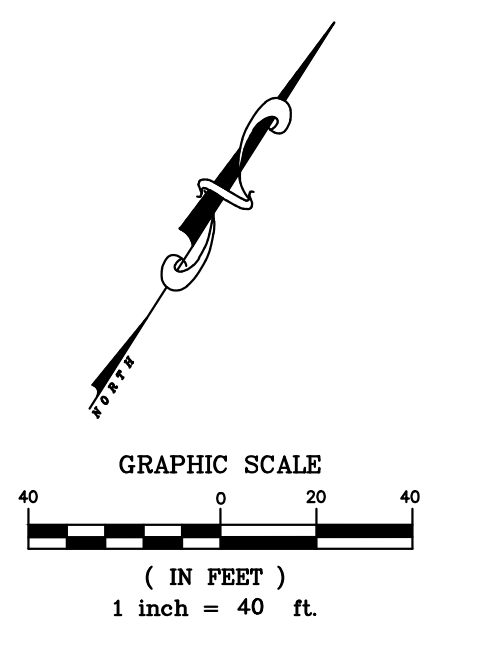
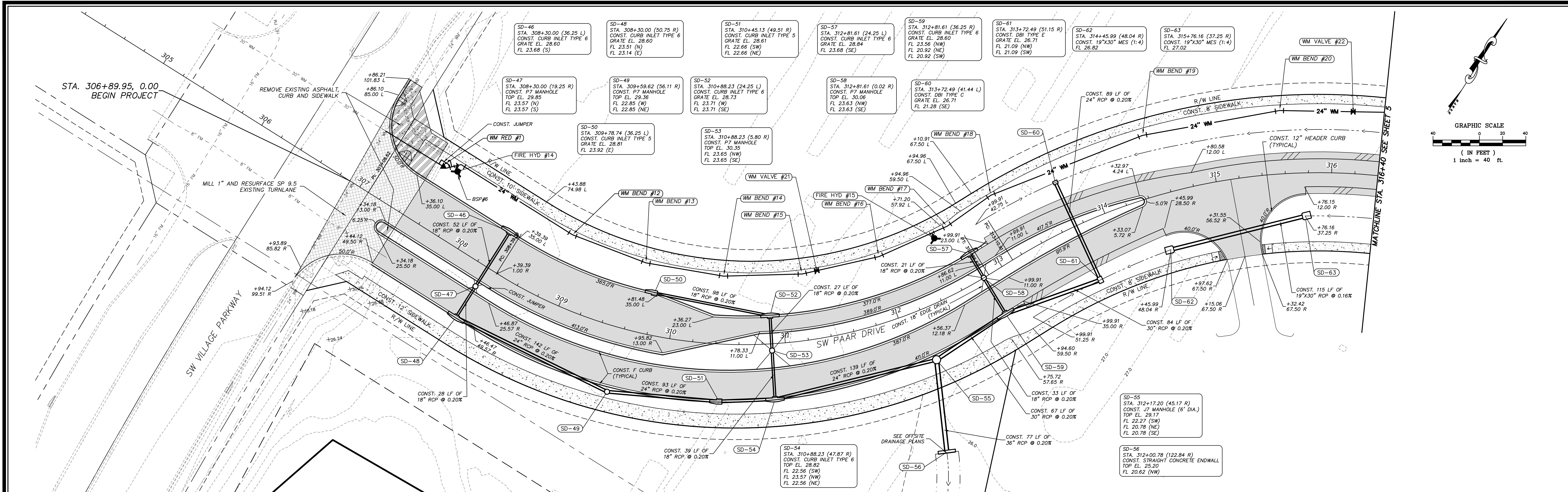
**CULPEPPER & TERPENING INC**  
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- REVISIONS -		
BY	DATE	

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**  
**PROJECT LAYOUT**

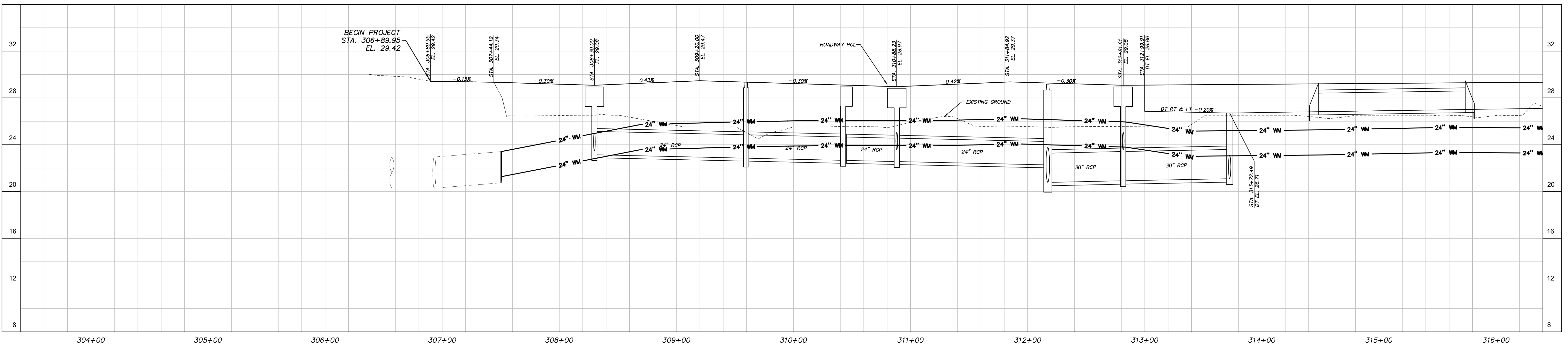
DATE: 04/02/2021  
 HORIZ. SCALE: SCALE  
 VERT. SCALE: SCALE  
 JOB No. 21-023  
 SHEET 5 of 12



FITTING TABLE				
FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE FINISHED GND.
WM BEND #12	24" 11.25' BEND	308+83.81	-60.91	25.75
WM BEND #13	24" 11.25' BEND	309+63.86	-59.90	25.99
WM BEND #14	24" 11.25' BEND	310+43.65	-58.66	26.08
WM BEND #15	24" 11.25' BEND	311+23.12	-57.23	26.06
WM BEND #16	24" 11.25' BEND	312+02.24	-55.68	26.19

FITTING TABLE				
FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE FINISHED GND.
WM BEND #17	24" 11.25' BEND	312+76.96	-54.46	25.96
WM BEND #18	24" 11.25' BEND	313+23.04	-57.50	25.35
WM BEND #19	24" 11.25' BEND	314+49.78	-53.41	25.27
WM BEND #20	24" 11.25' BEND	315+58.29	-54.62	25.48
WM RED #1	30 x 24" RED	307+50.19	-53.41	23.41

VALVE TABLE				
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE FINISHED GND.
FIRE HYD #14	HYDRANT ASSEMBLY	307+64.06	-56.33	23.60
FIRE HYD #15	HYDRANT ASSEMBLY	312+60.00	-50.79	20.02
WM VALVE #21	24" RSGV	311+38.12	-57.97	26.10
WM VALVE #22	24" RSGV	316+15.71	-53.32	25.45



PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059

STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723



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COMPUTER FILE REF.	FIELD BK./PG.

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NO.	BY	DATE

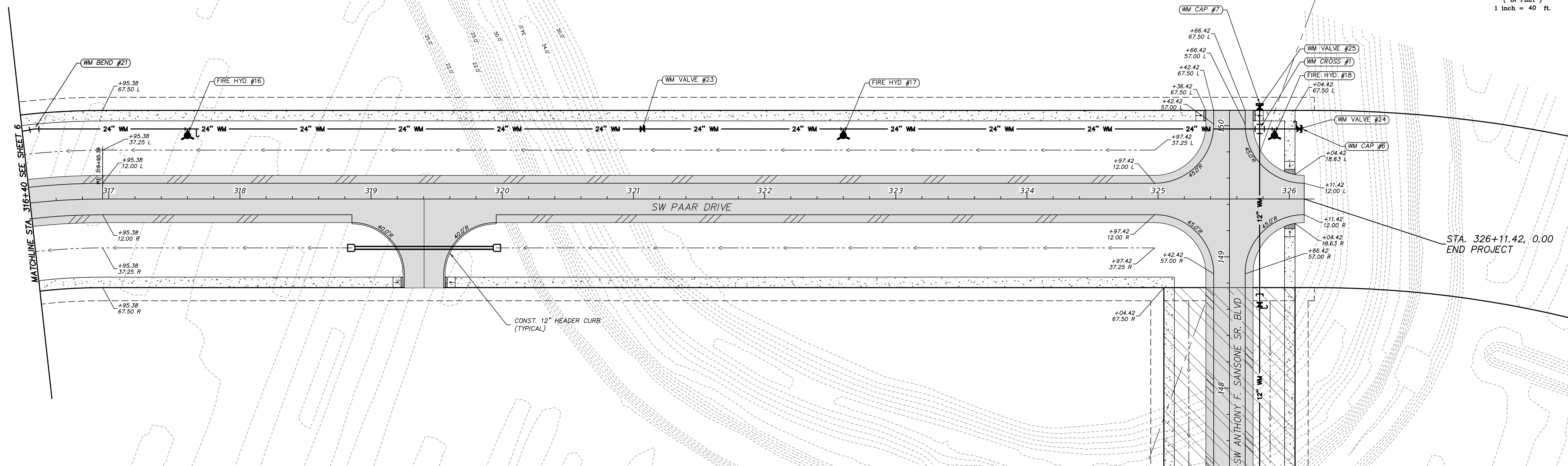
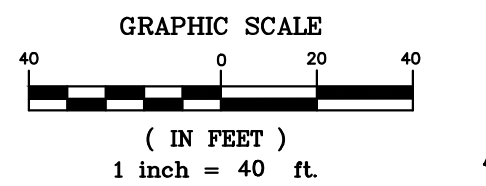
DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	03/10/21

**SW PAAR DRIVE**

**PLAN AND PROFILE**

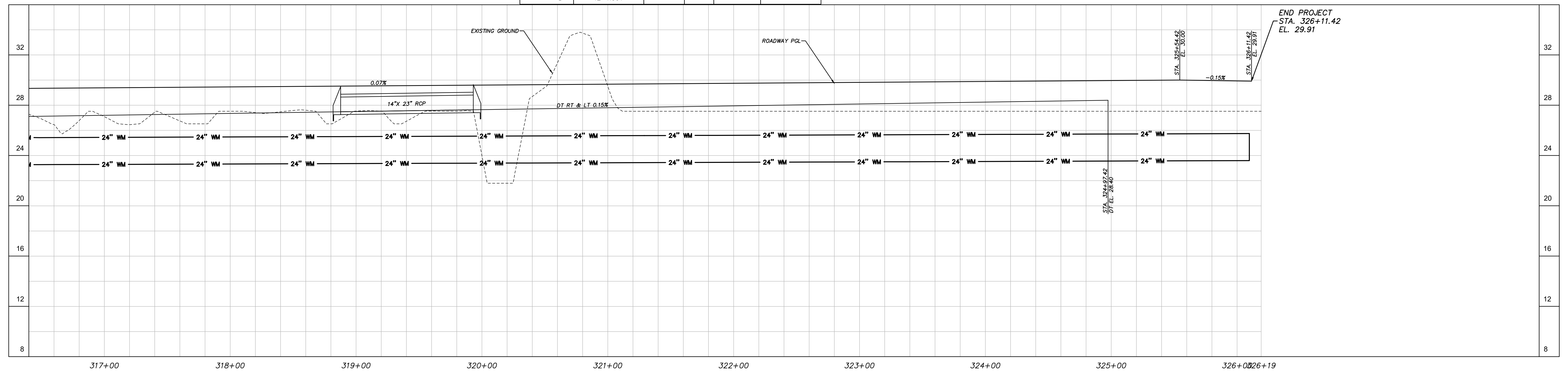
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VERT. SCALE: SCALE  
JOB NO. 21-023  
SHEET 6 of 12

P:\Proj-2021\21-020 Arco - SW Anthony Sansone (Phase 1)\Eng\21.020 Plan-Profile.dwg Plotted: 4/2/2021 3:21 PM By: DONNIE PINKERTON



FITTING TABLE				
FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE FINISHED GND.
WM BEND #21	24" 11.25' BEND	316+48.46	-55.85	25.43
WM CAP #6	24" CAP	326+09.69	-53.41	25.75
WM CAP #7	12" CAP	325+77.42	-72.76	25.70
WM CROSS #1	24 x 12" CROSS	325+77.42	-53.41	25.74

VALVE TABLE					
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FINISHED GND.
FIRE HYD #16	HYDRANT ASSEMBLY	317+60.00	-48.41	25.46	
FIRE HYD #17	HYDRANT ASSEMBLY	322+60.00	-48.41	25.63	
FIRE HYD #18	HYDRANT ASSEMBLY	325+88.66	-48.41	25.74	
WM VALVE #23	24" RSGV	321+06.89	-53.41	25.58	
WM VALVE #24	24" RSGV	326+07.66	-53.41	25.75	
WM VALVE #25	12" RSGV	325+77.42	-69.97	25.70	



SEE SW ANTHONY F. SANSONE SR. BLVD EXTENSION PLANS

PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059

STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723



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COMPUTER FILE REF.	FIELD BK./PG.

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- REVISIONS -		
NO.	BY	DATE

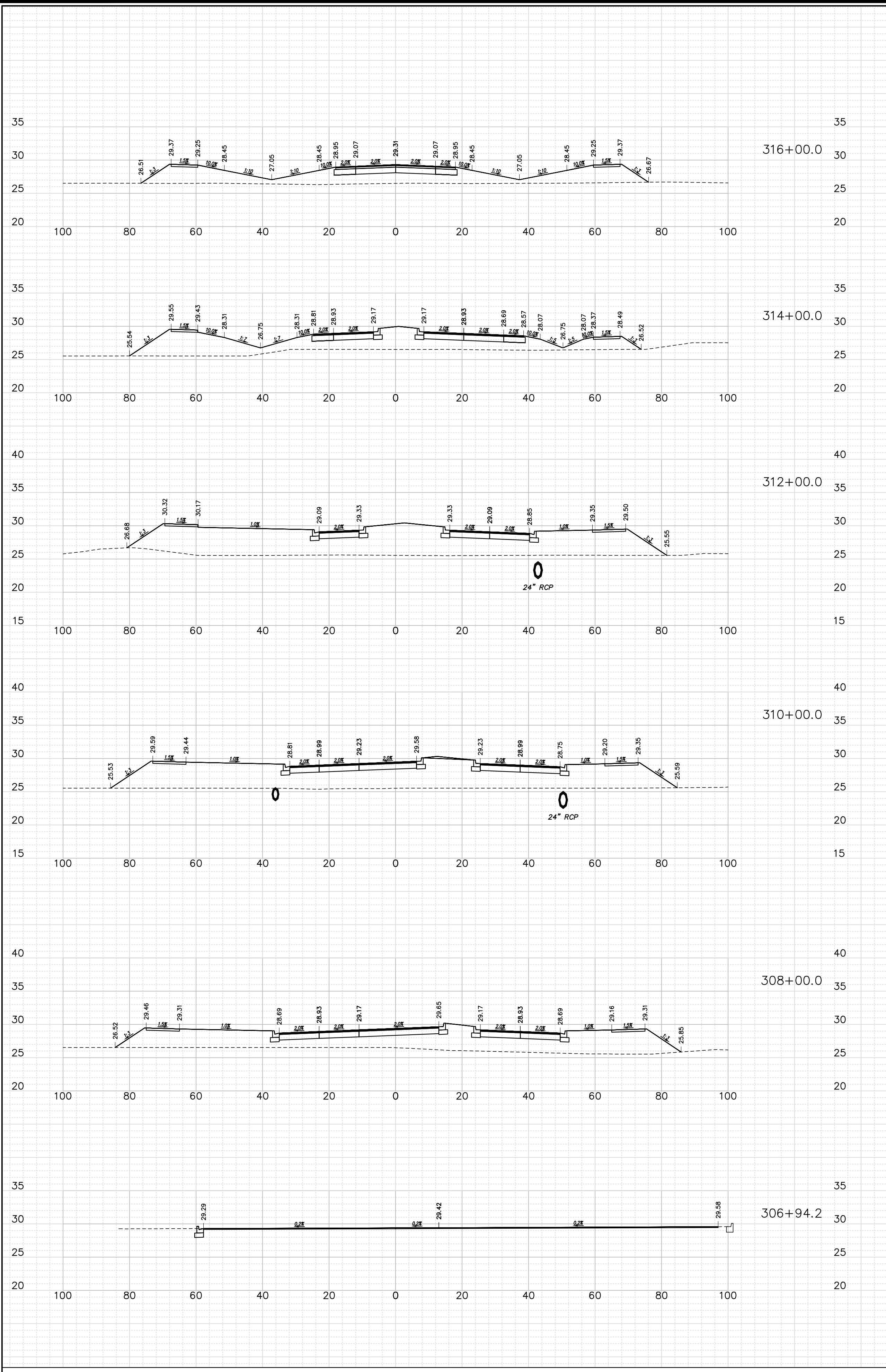
DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**  
**PLAN AND PROFILE**

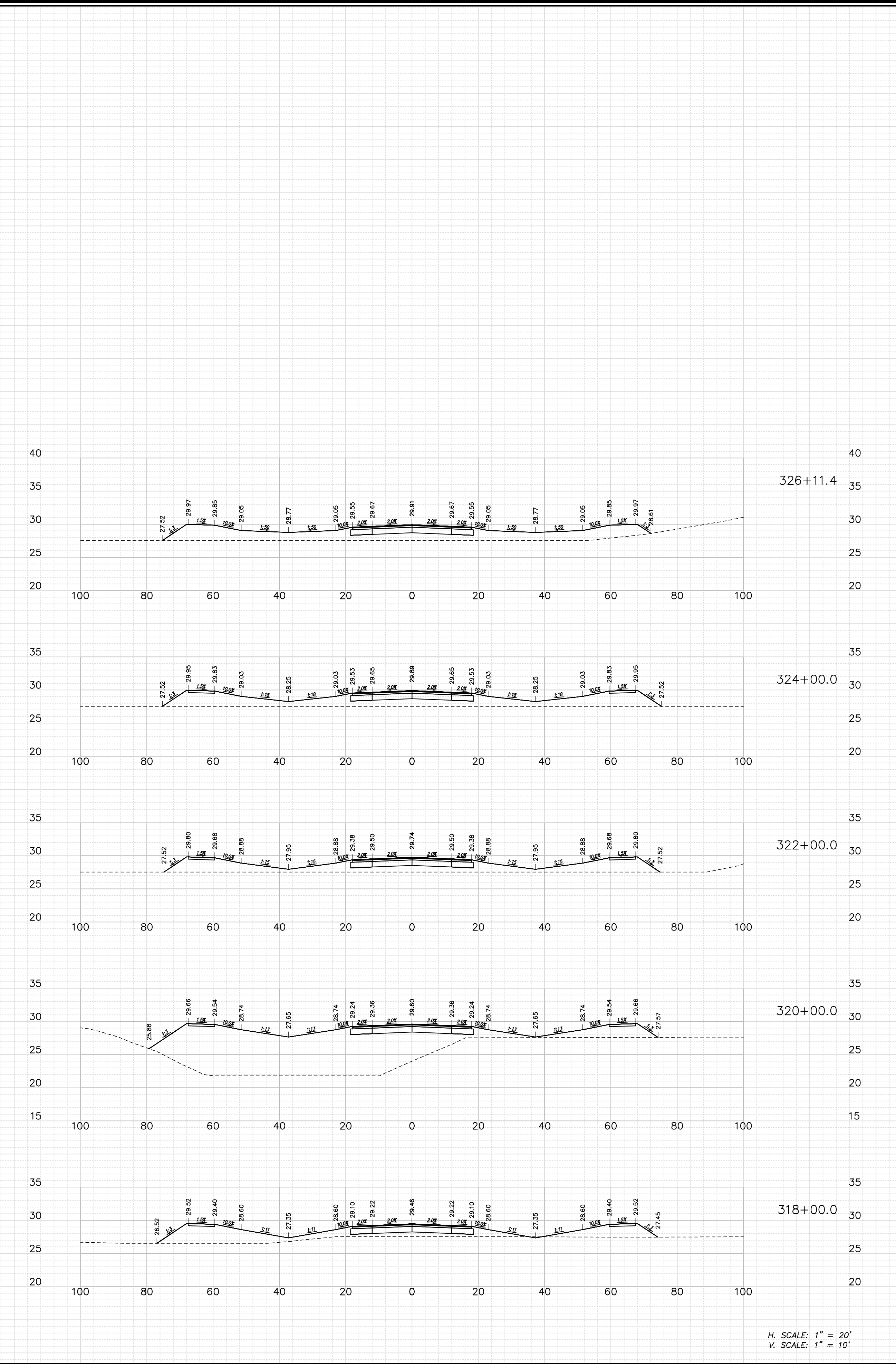
DATE: 04/02/2021  
HORIZ. SCALE:  
VERT. SCALE:  
JOB No. 21-023  
SHEET 7 of 12

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P:\Proj-2021\21-020 Arco - SW Anthony Sansone (Phase 1)\Eng\21-020 Cross Sections.dwg Plotted: 4/2/2021 3:22 PM By: DONNIE PINKERTON



REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
0.00	0.00	250.32	1989.37
0.00	0.00	278.78	3028.73
0.00	0.00	539.97	3880.56
0.00	0.00	514.57	3350.16
0.00	0.00	388.12	760.56
21.55	0.00	0.00	0.00



REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
0.00	0.00	209.32	1594.75
0.00	0.00	198.00	1370.08
0.00	0.00	171.92	2771.34
0.00	1.08	576.34	2745.21
0.29	1.04	164.86	1546.36
<b>TOTAL EXC.</b>		<b>TOTAL EMBK.</b>	
44.35		23,216.53	

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059  
STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723



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COMPUTER FILE REF.	FIELD BK./PG.

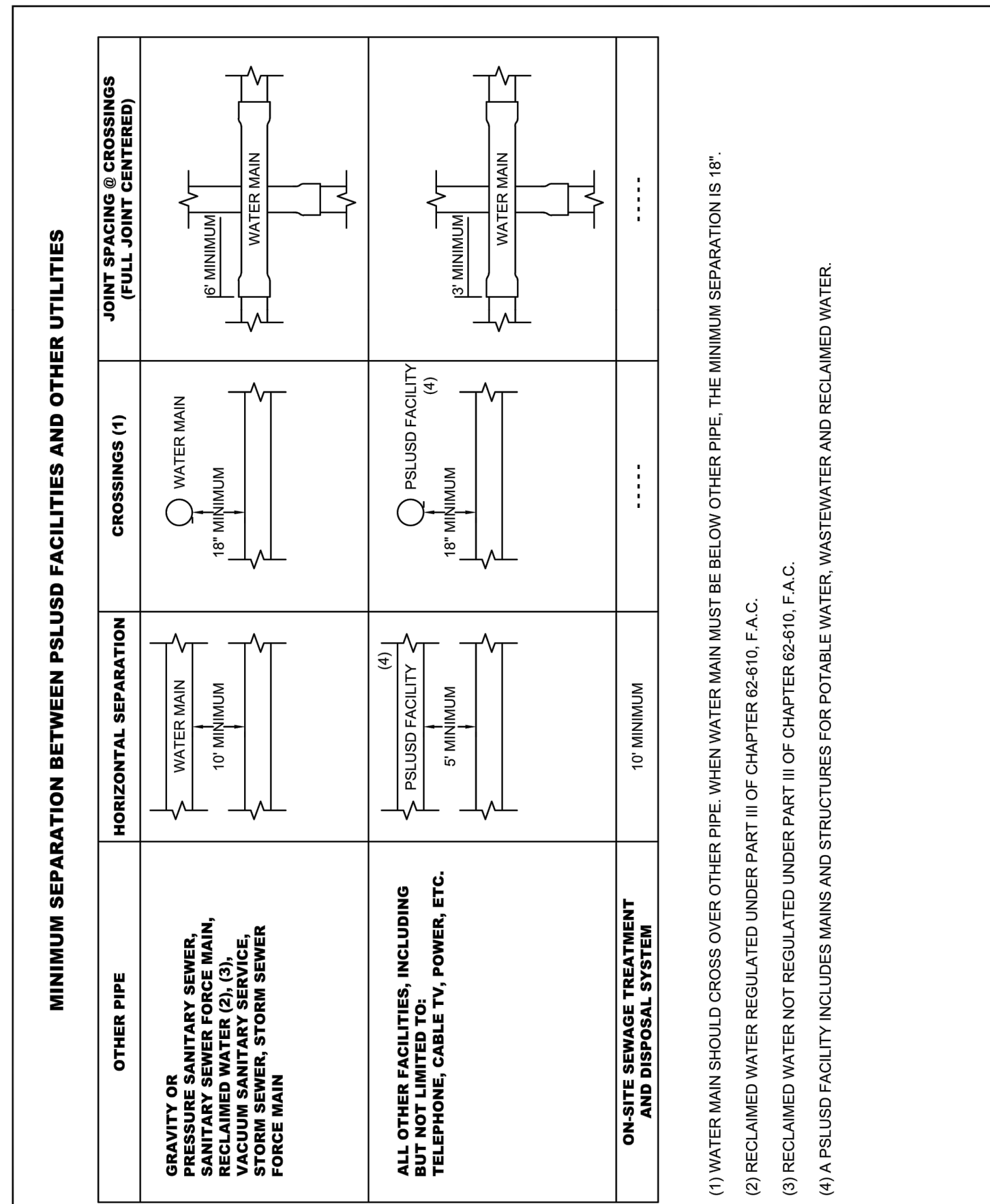
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- REVISIONS -		
NO.	BY	DATE

DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**  
**ROADWAY CROSS SECTIONS**





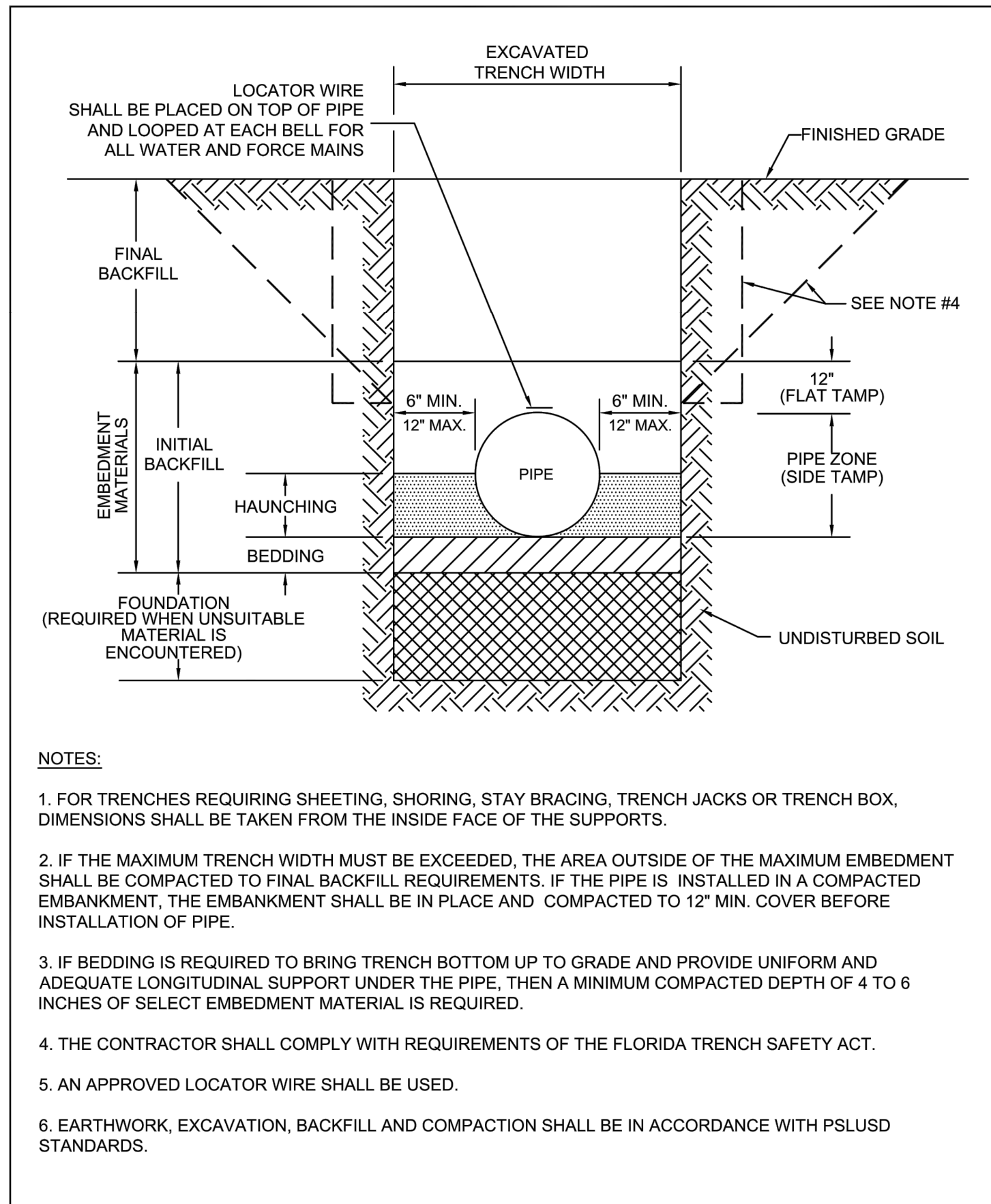
MINIMUM SEPARATION BETWEEN PSLUSD FACILITIES AND OTHER UTILITIES

(1) WATER MAIN SHOULD CROSS OVER OTHER PIPE WHEN WATER MAIN MUST BE BELOW OTHER PIPE. THE MINIMUM SEPARATION IS 18".  
 (2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.  
 (3) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.  
 (4) A PSLUSD FACILITY INCLUDES MAINS AND STRUCTURES FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER.

**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**STANDARD SEPARATION REQUIREMENTS**

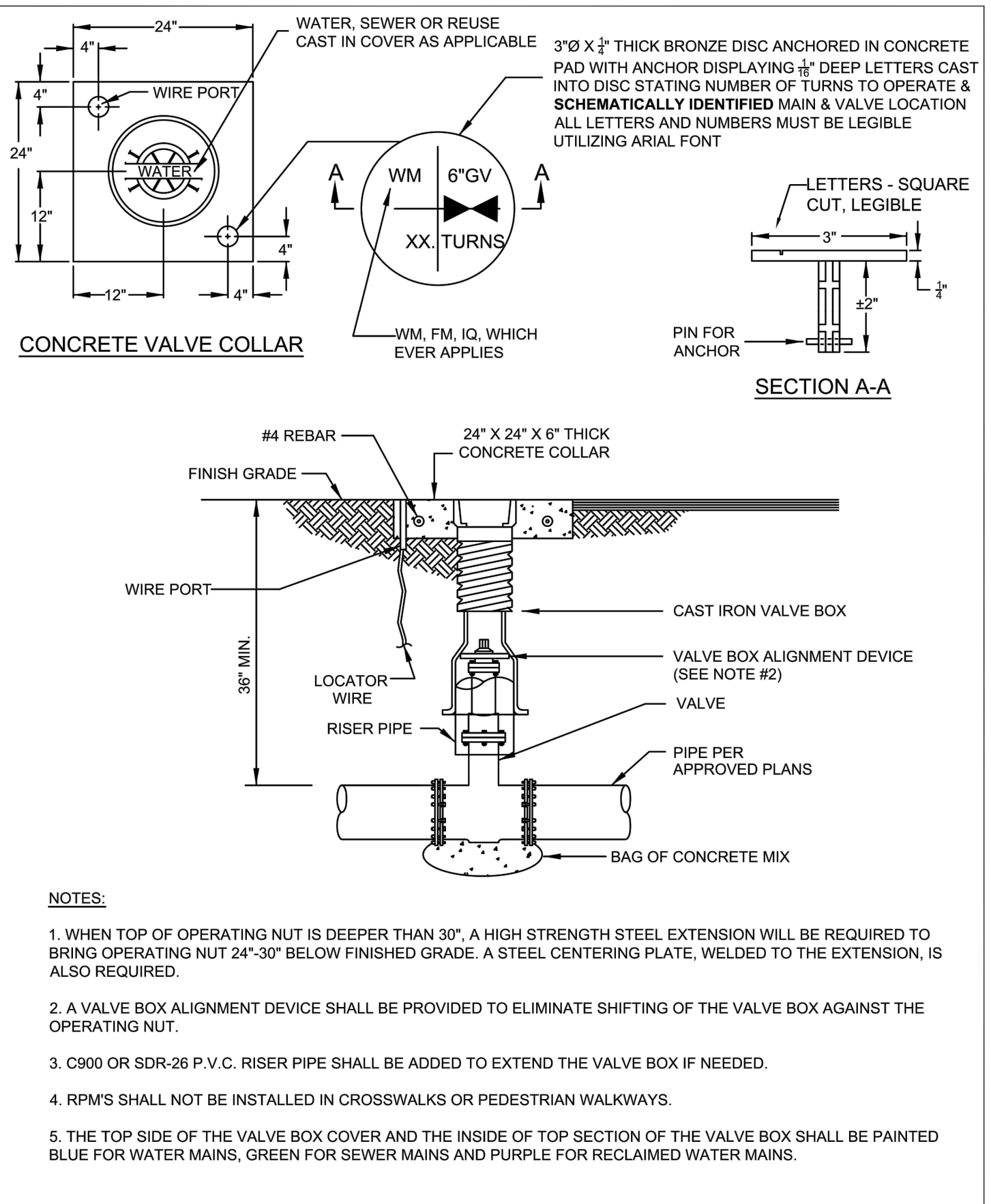
DATE: 2019  
SCALE: N.T.S.  
SHEET: 1 OF 1



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**STANDARD PIPE TRENCH CROSS SECTION**

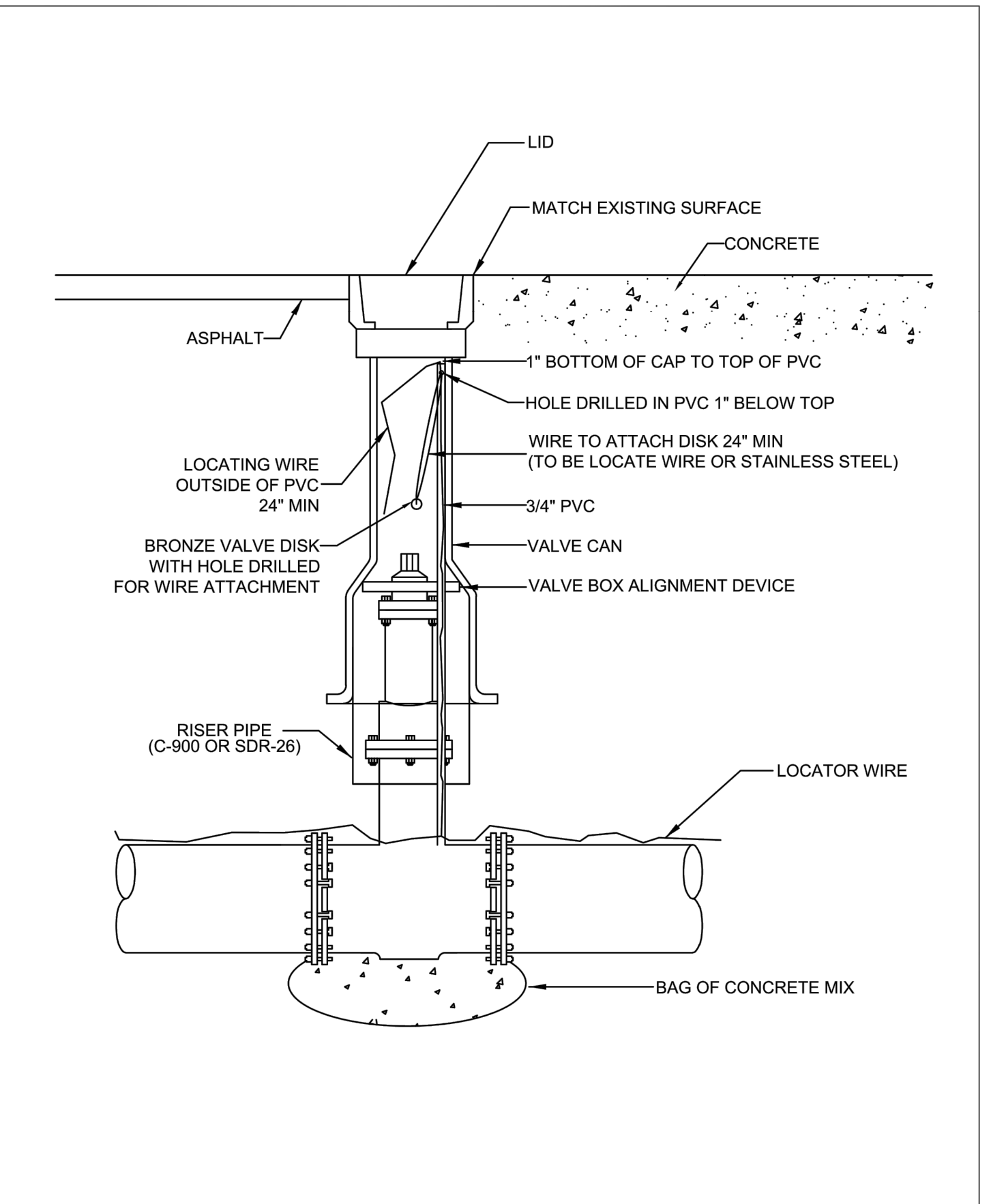
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SHEET: 1 OF 1



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA**

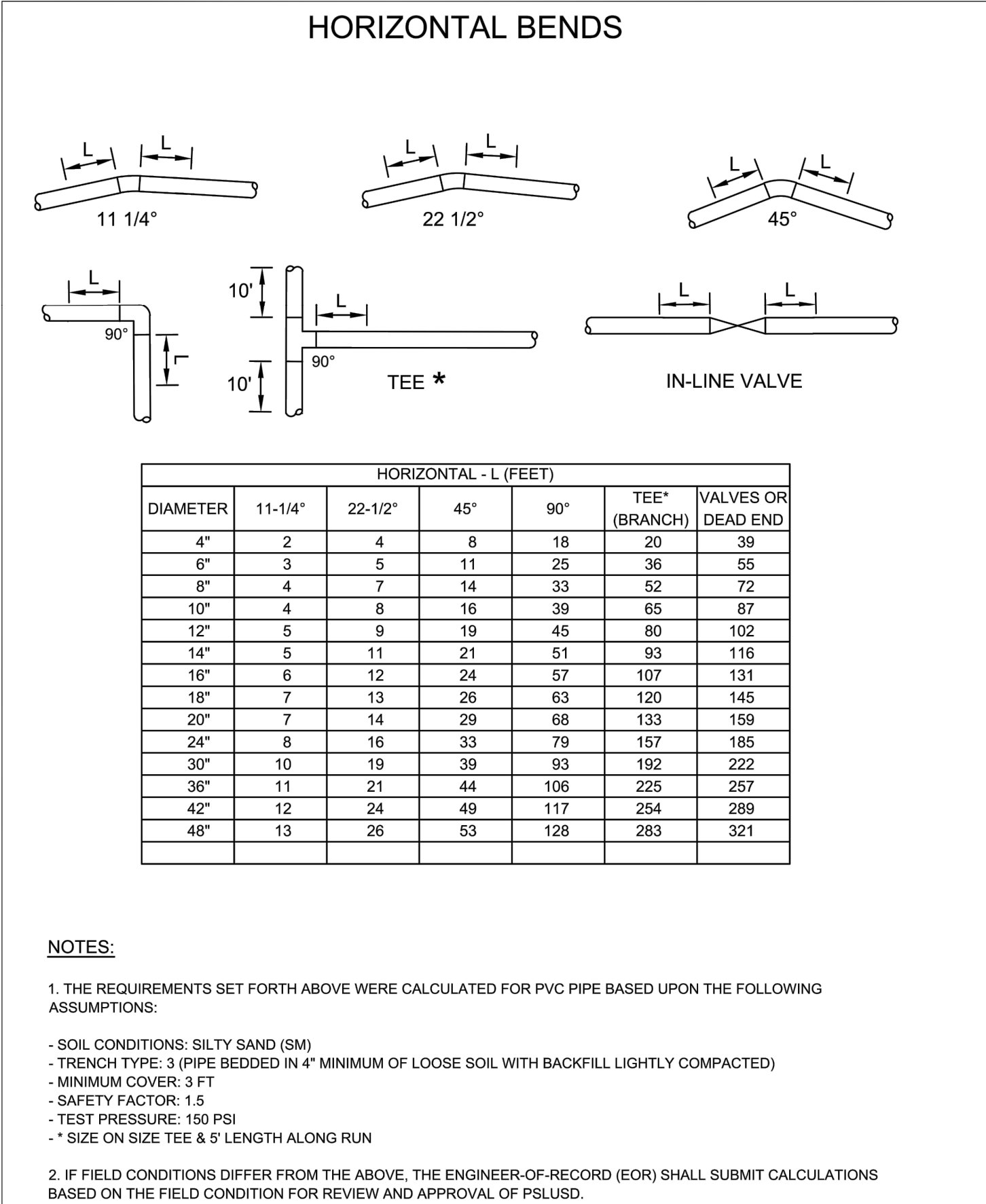
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SHEET: 1 OF 2



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**TYPICAL VALVE BOX IN PAVED AREA**

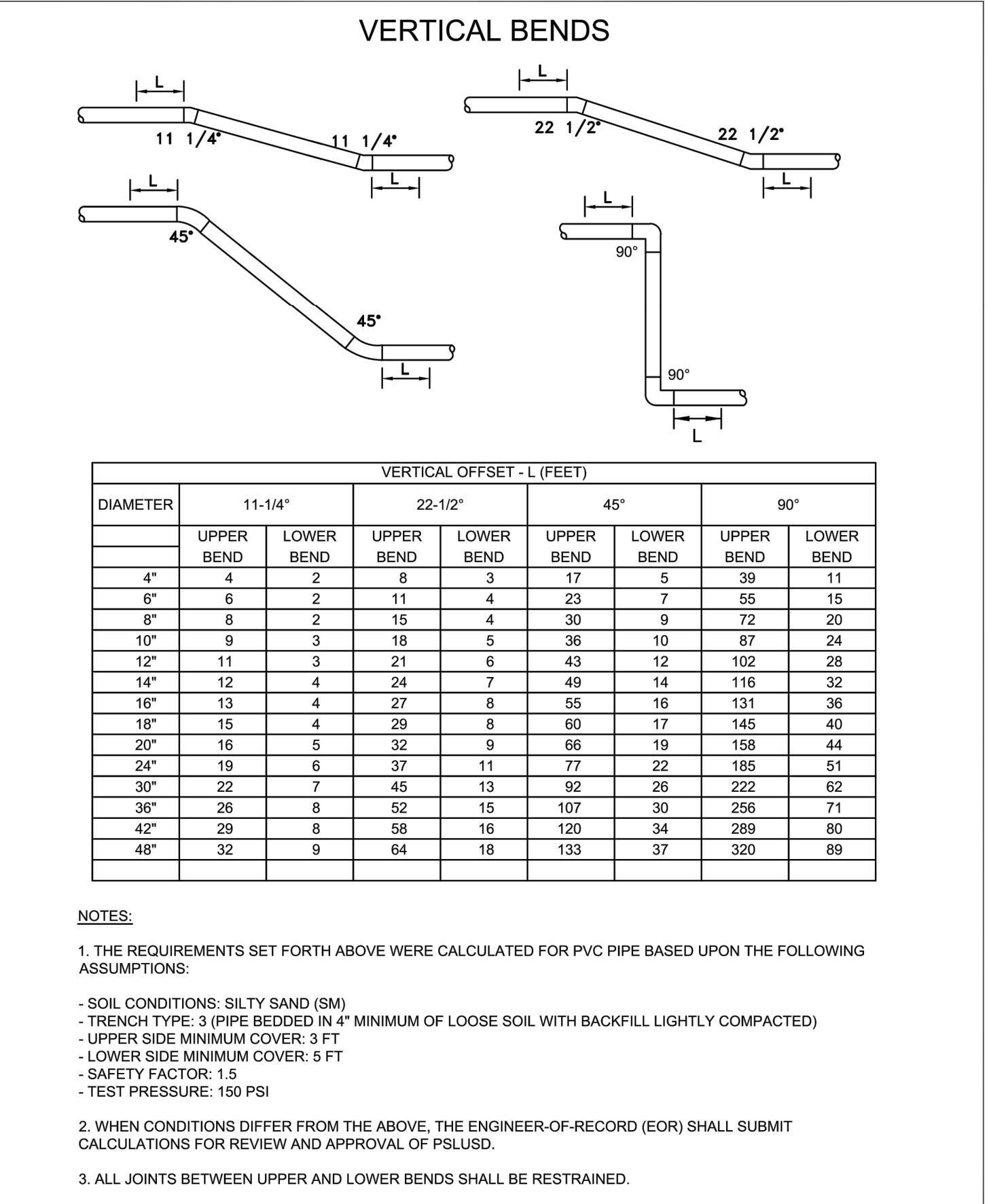
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SHEET: 2 OF 2



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**PIPELINE RESTRAINT REQUIREMENTS (HORIZONTAL)**

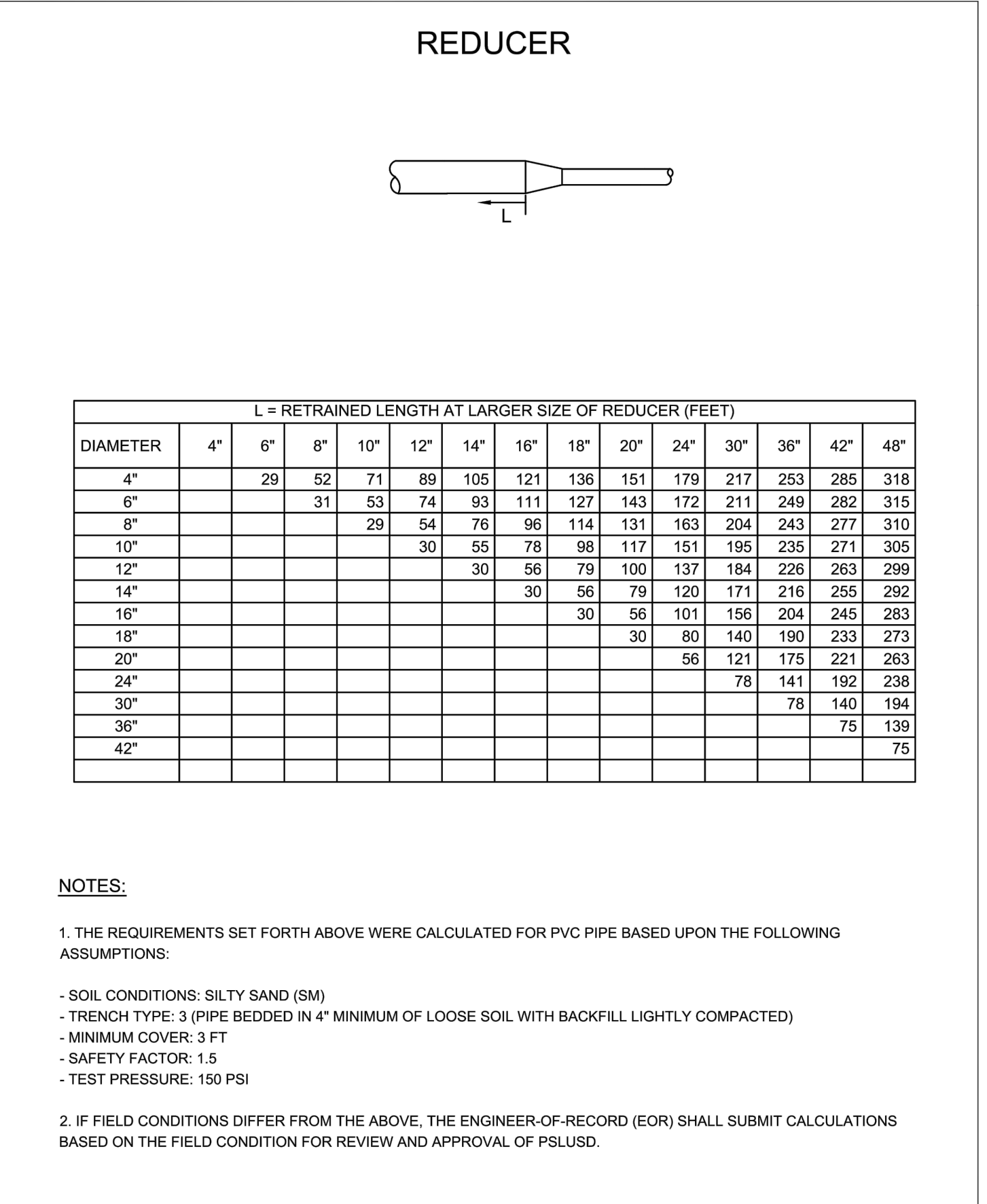
DATE: 2019  
SCALE: N.T.S.  
SHEET: 1 OF 3



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**PIPELINE RESTRAINT REQUIREMENTS (VERTICAL)**

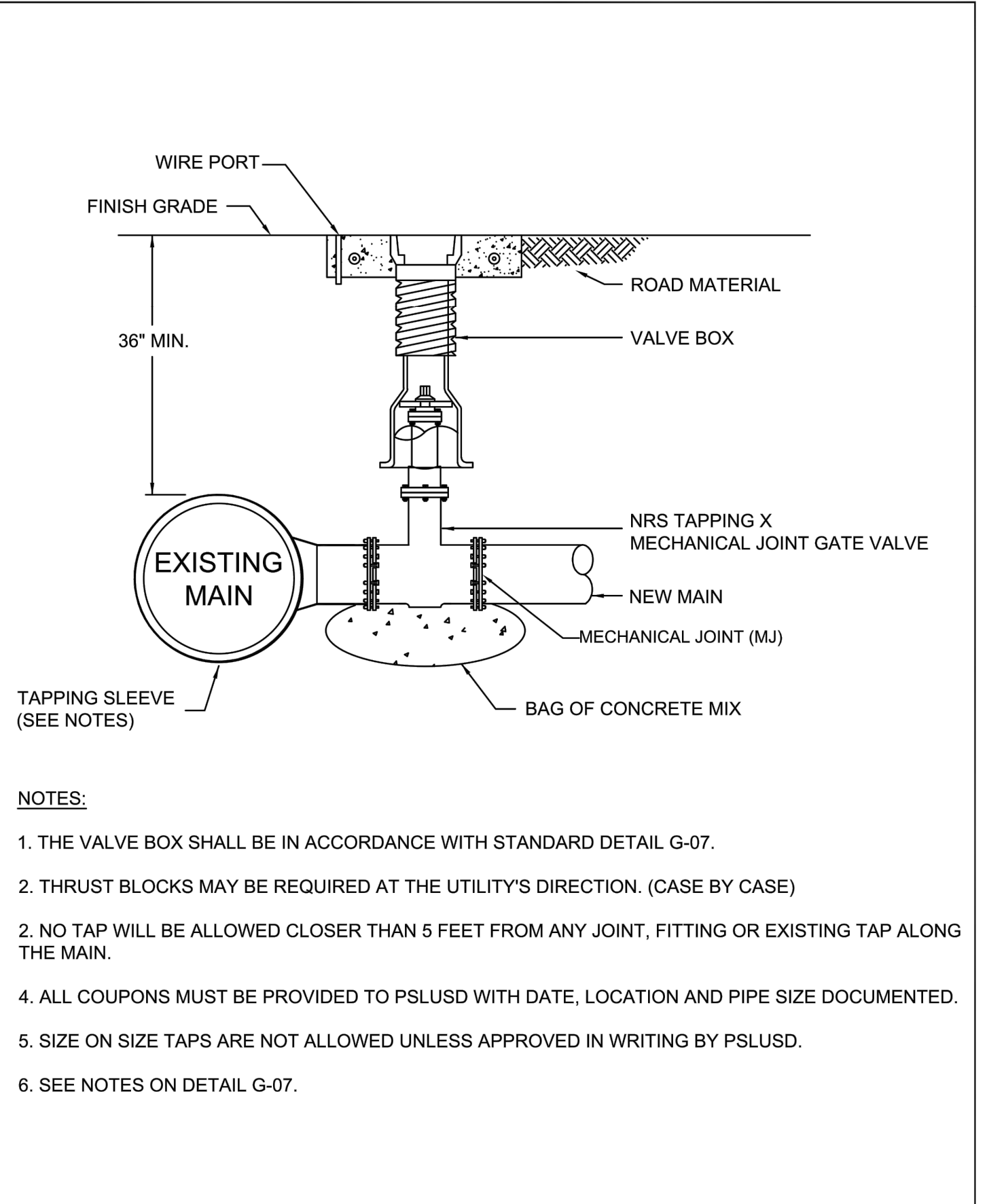
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SCALE: N.T.S.  
SHEET: 2 OF 3



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**PIPELINE RESTRAINT REQUIREMENTS (REDUCER)**

DATE: 2019  
SCALE: N.T.S.  
SHEET: 3 OF 3



**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433**

**TAPPING SLEEVE AND VALVE ASSEMBLY**

DATE: 2019  
SCALE: N.T.S.  
SHEET: 1 OF 1

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PSLUSD PROJECT No. 5360C  
CITY OF PSL PROJECT No. P21-059

STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723



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COMPUTER FILE REF.	FIELD BK./PG.

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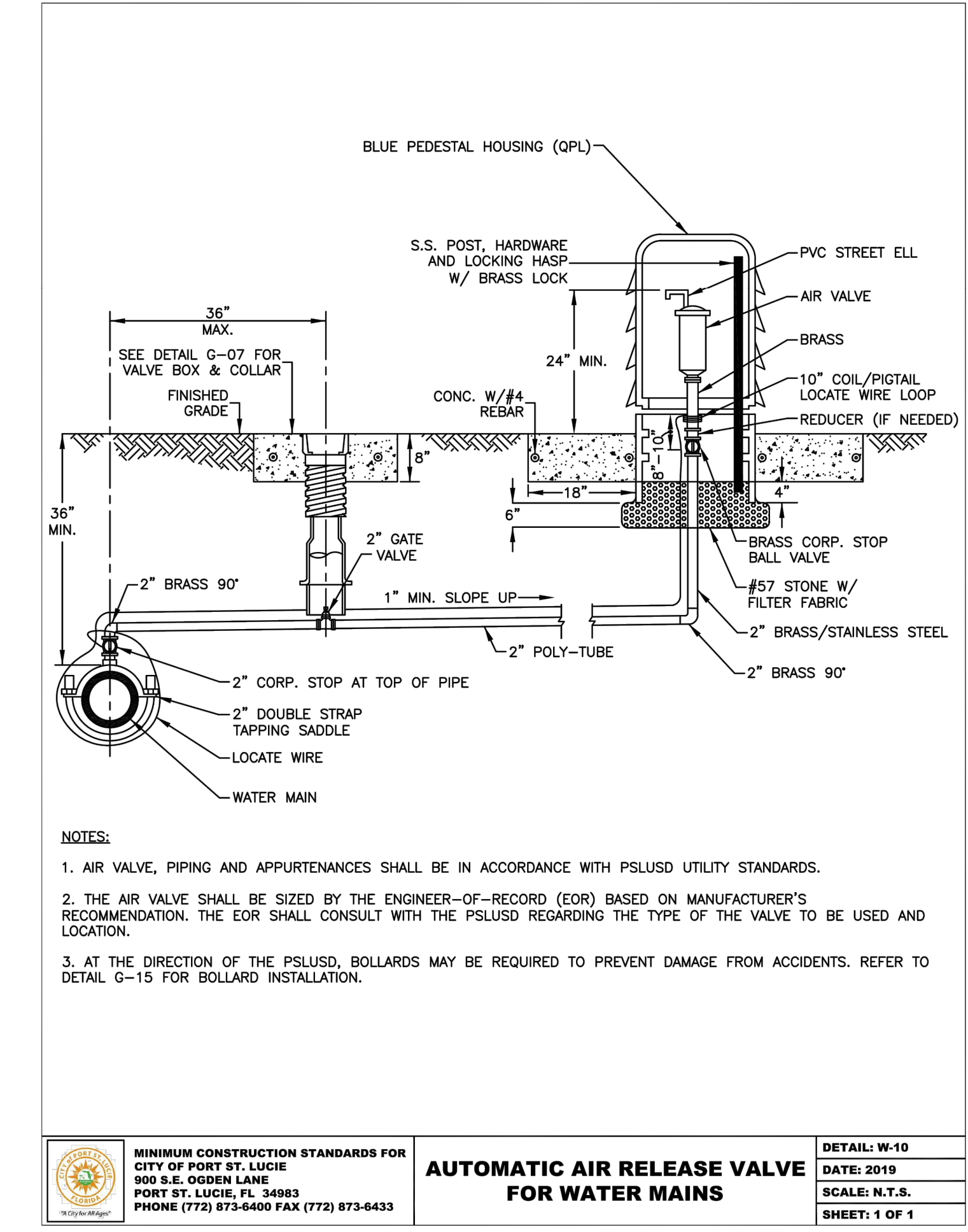
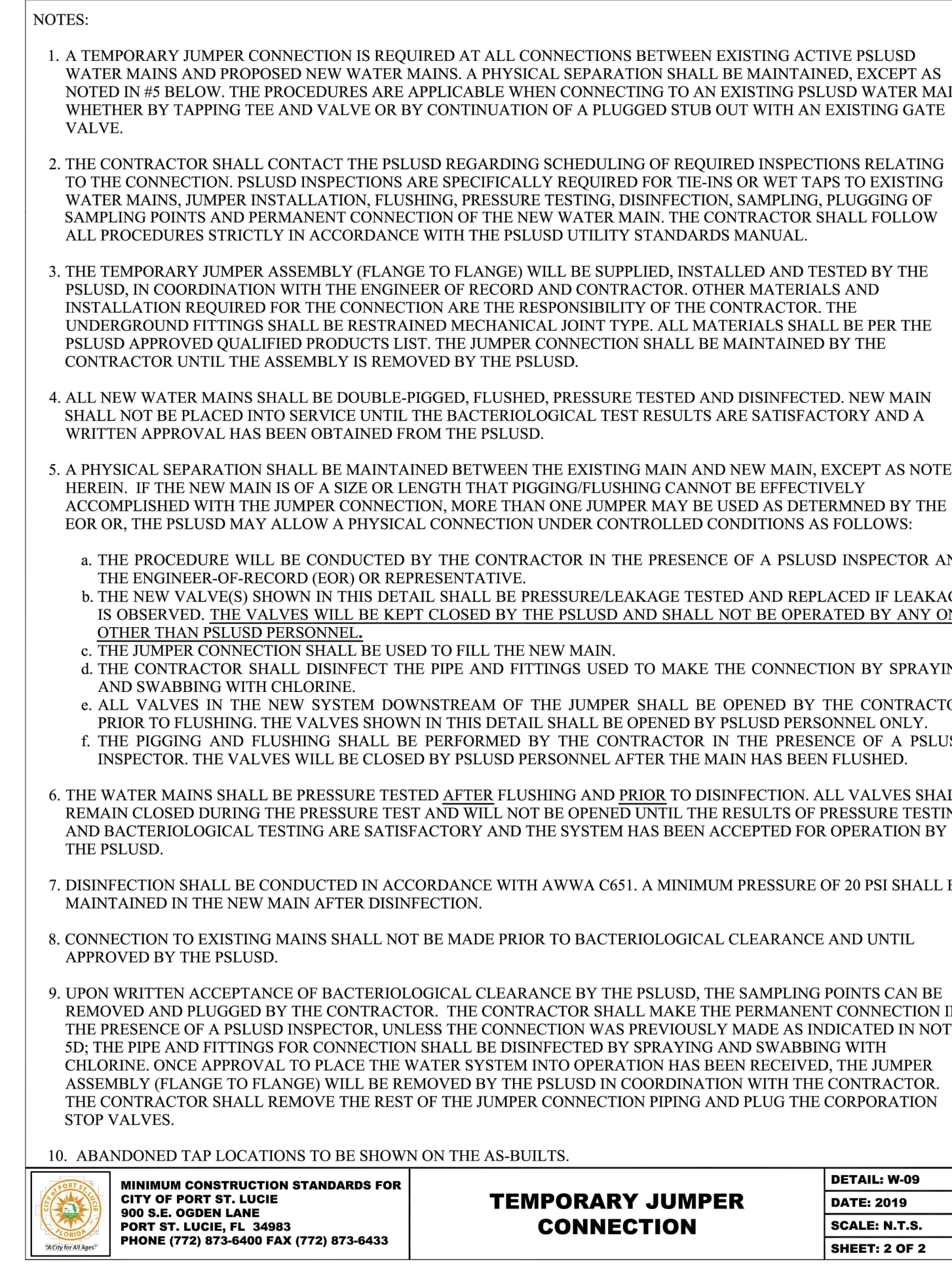
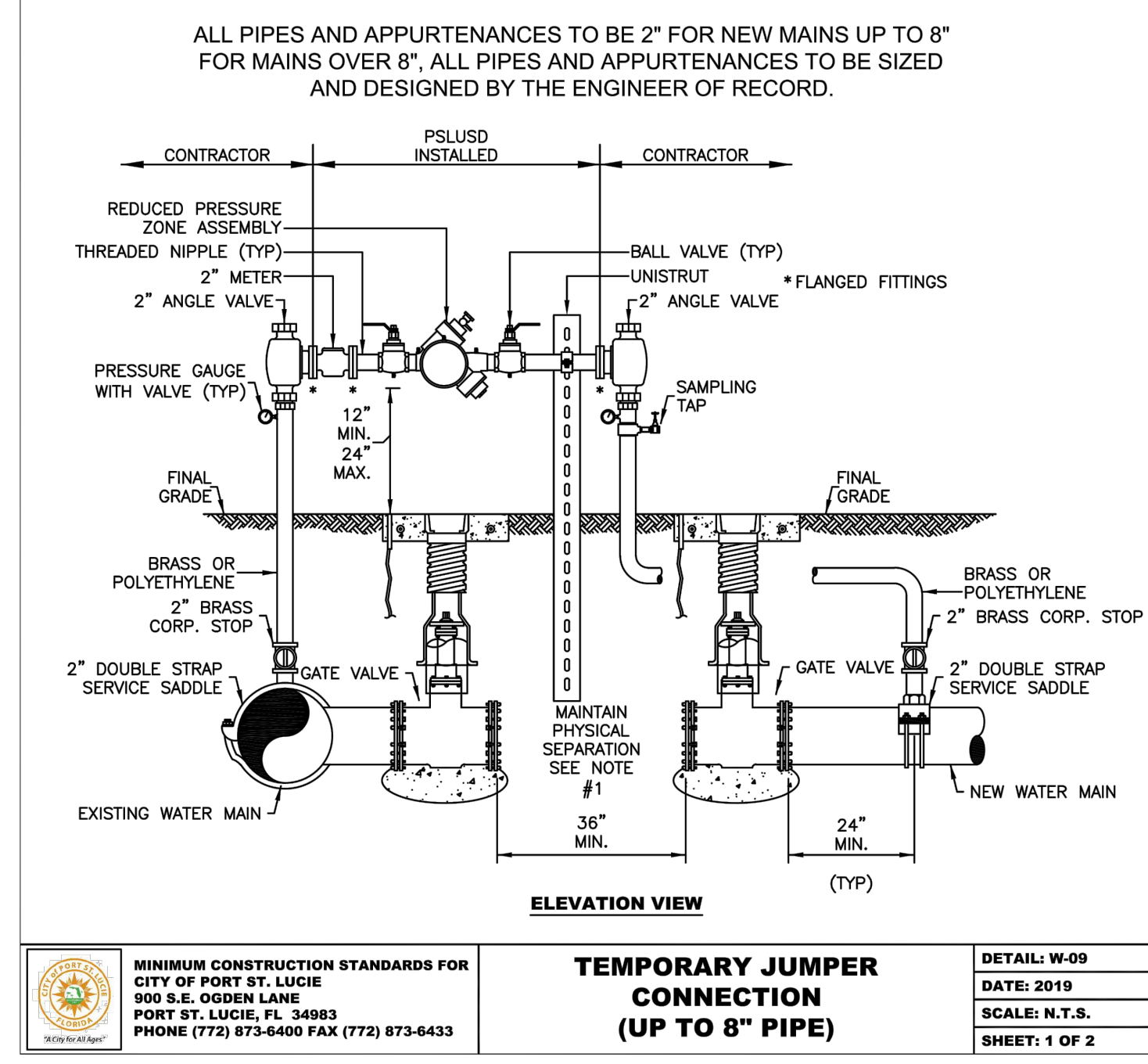
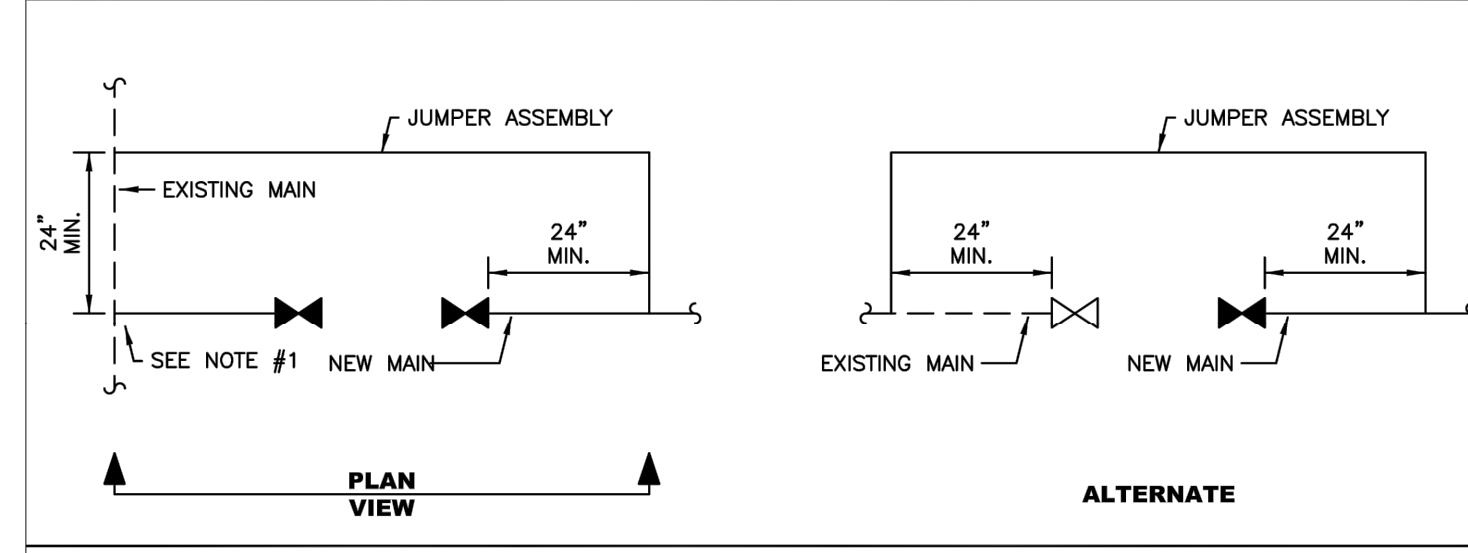
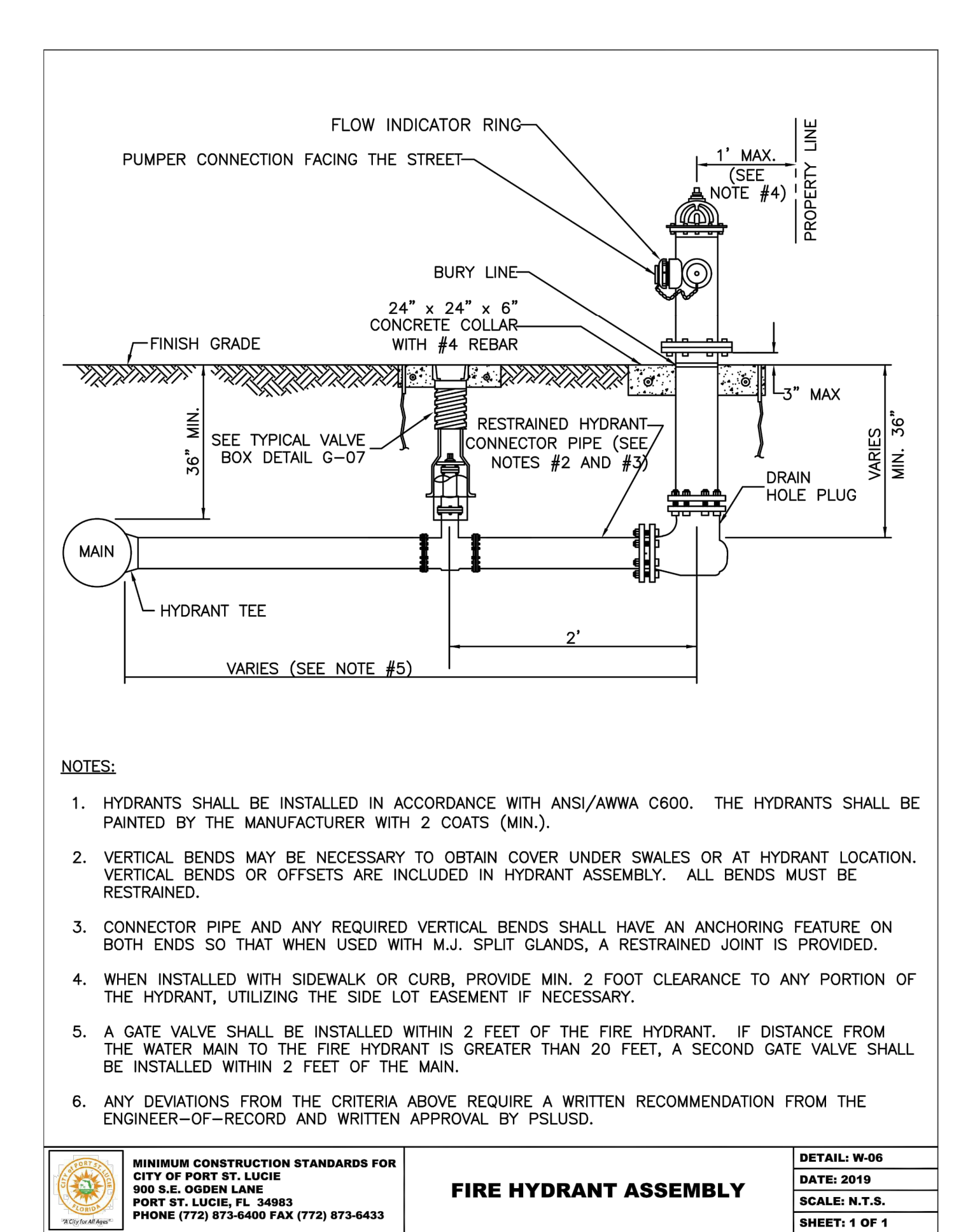
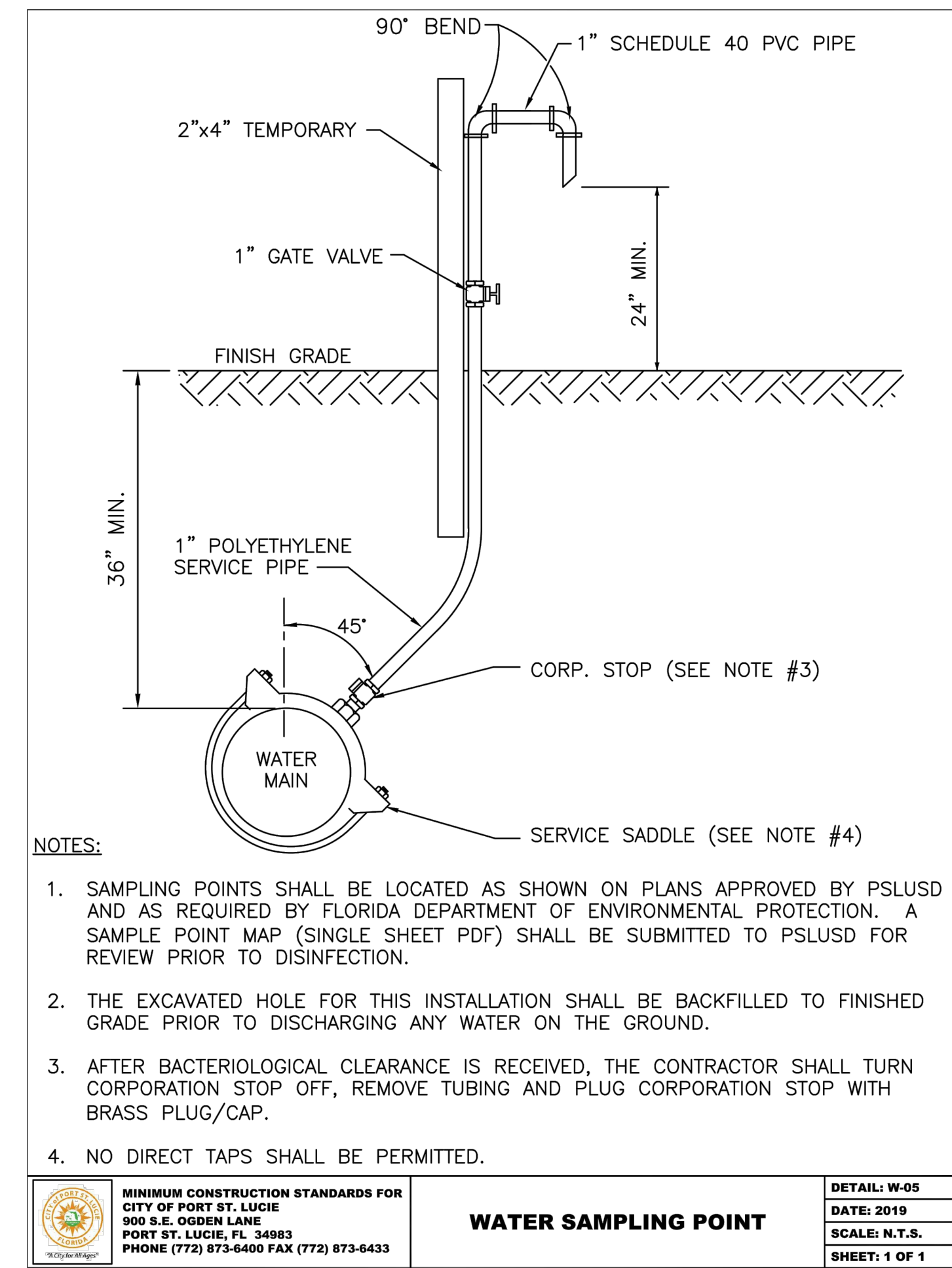
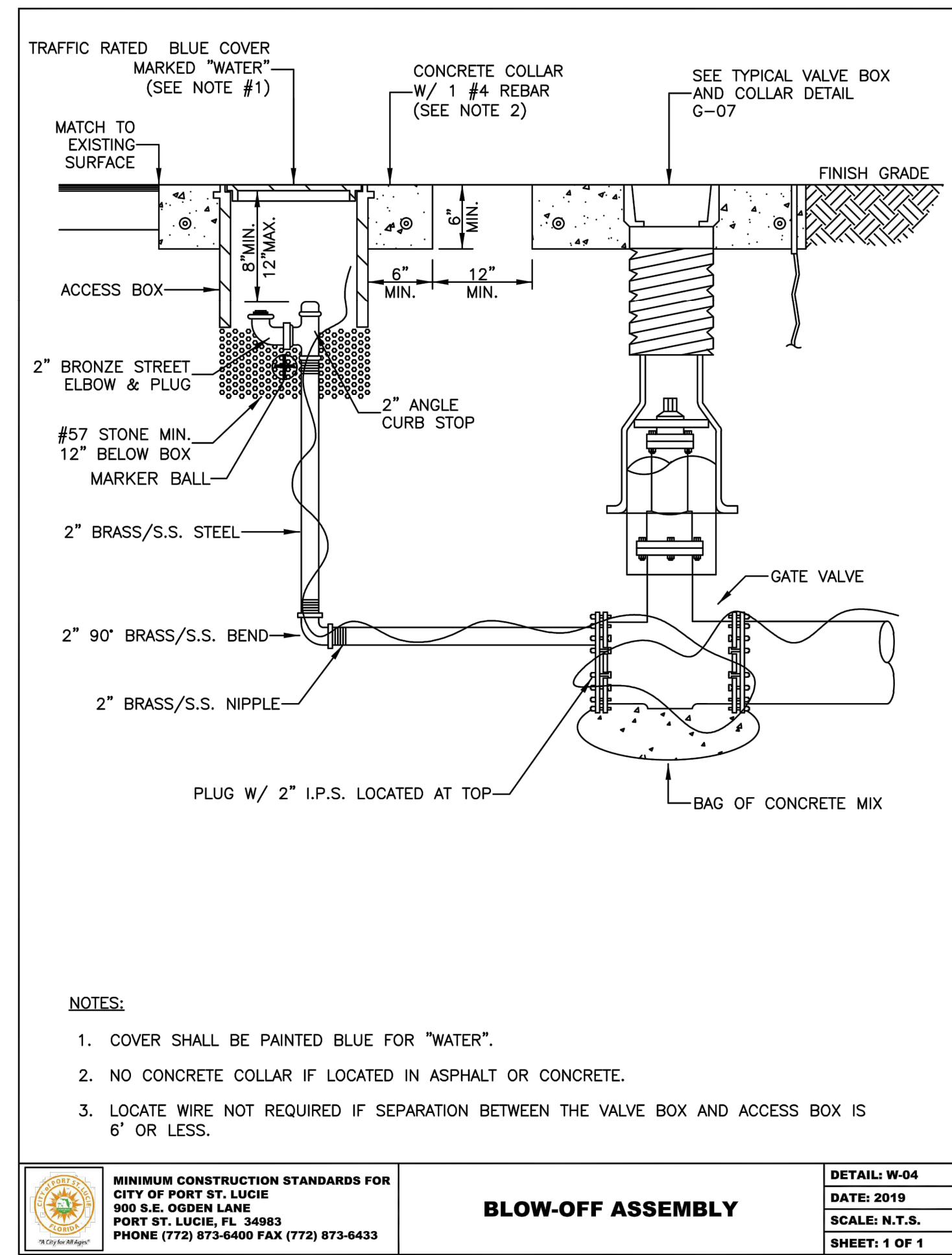
- REVISIONS -		BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**

**UTILITY DETAILS**

DATE: 04/02/2021  
 HORIZ. SCALE: SCALE  
 VERT. SCALE: SCALE  
 JOB No. 21-023  
 SHEET 9 of 12



PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059



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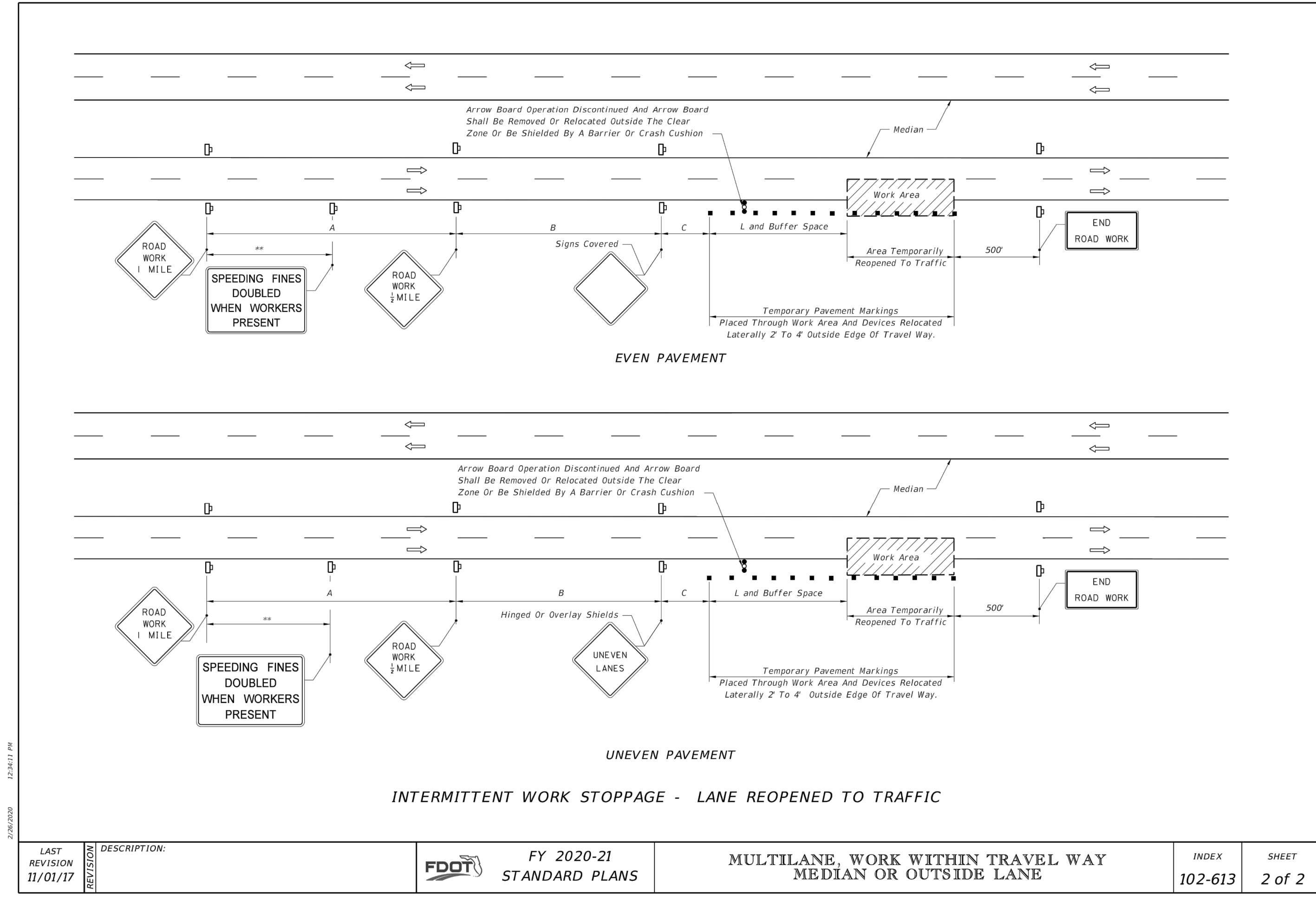
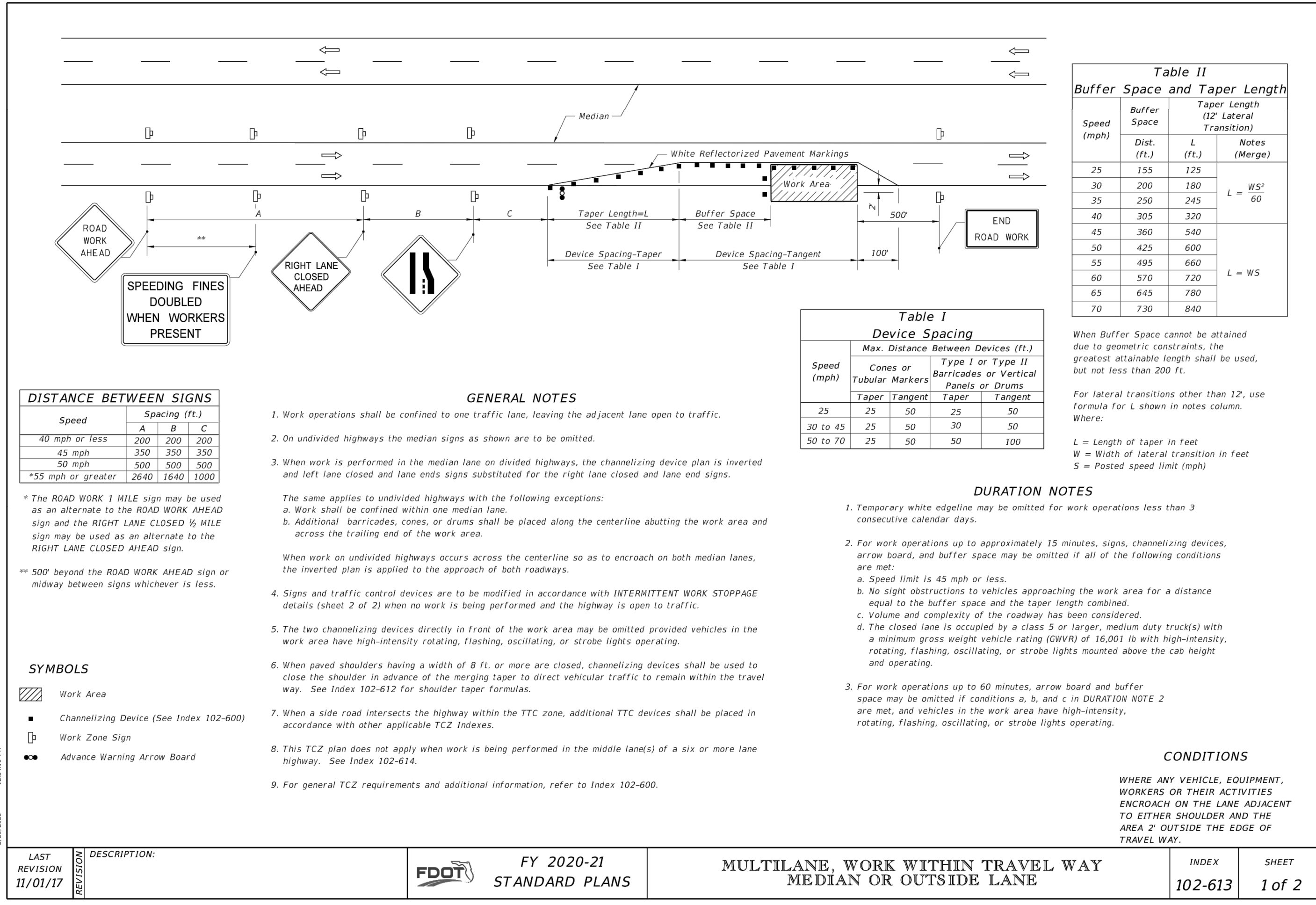
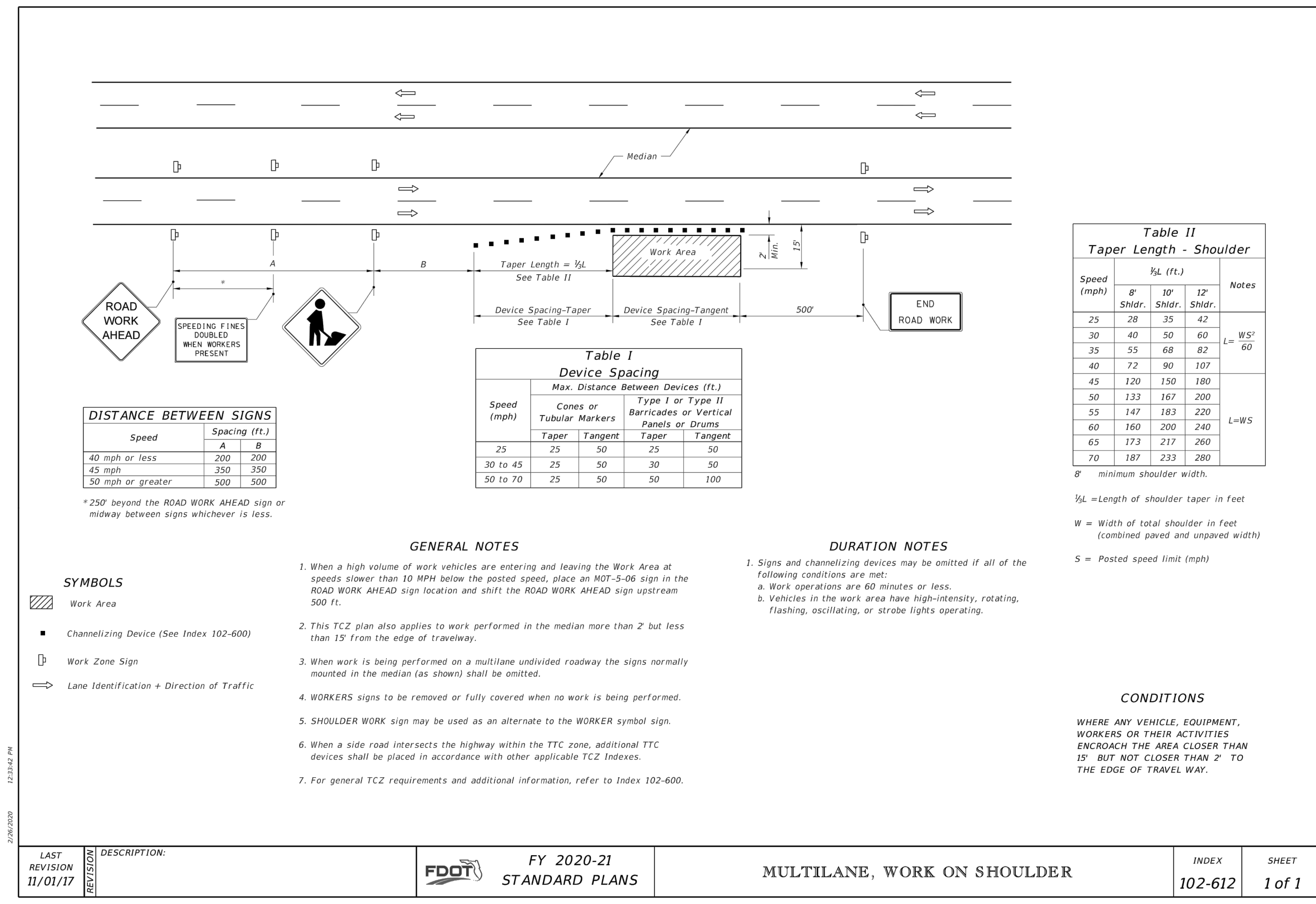
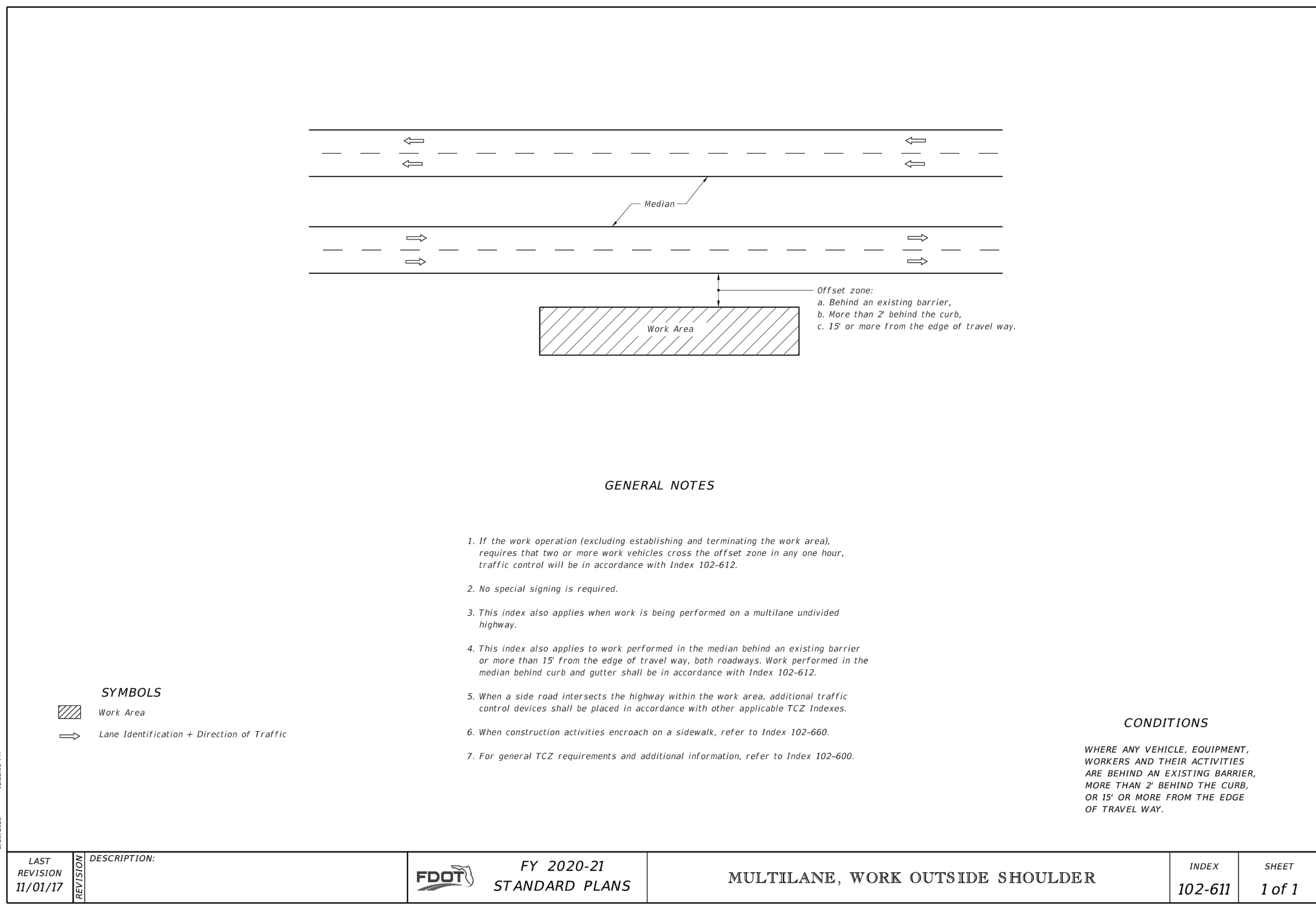
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- REVISIONS -		BY	DATE

DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**  
**UTILITY DETAILS**



P:\Proj\2021\21-020 Arco - SW Anthony Sansone (Phase 1)\Eng\21-020 COVER -NOTES.dwg Plotted: 4/2/2021 3:22 PM By: DONNIE PINKERTON



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**- REVISIONS -**

NO.	BY	DATE

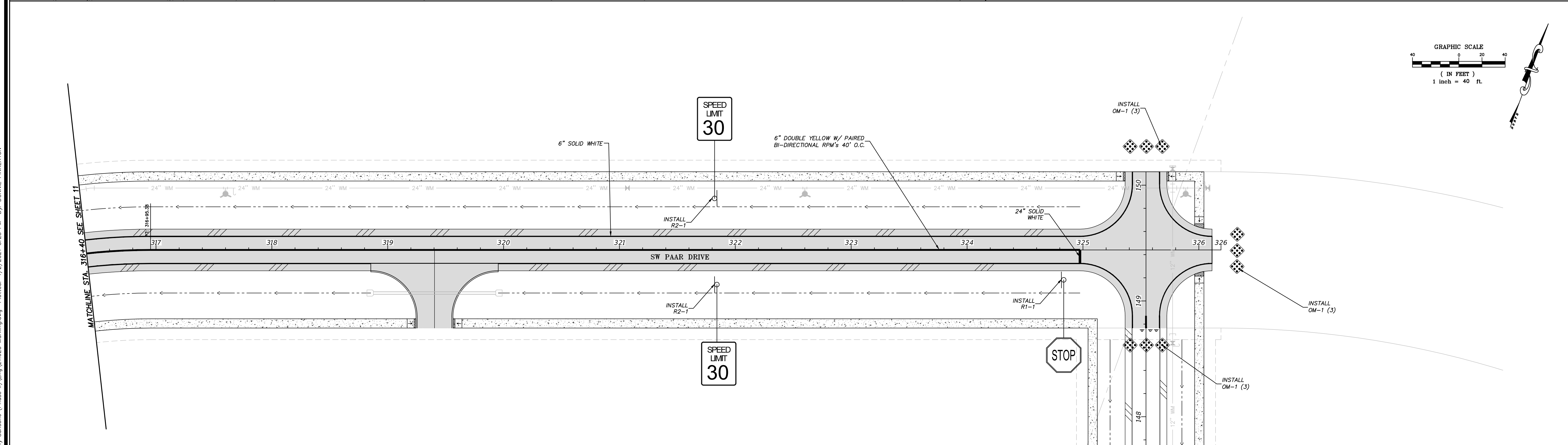
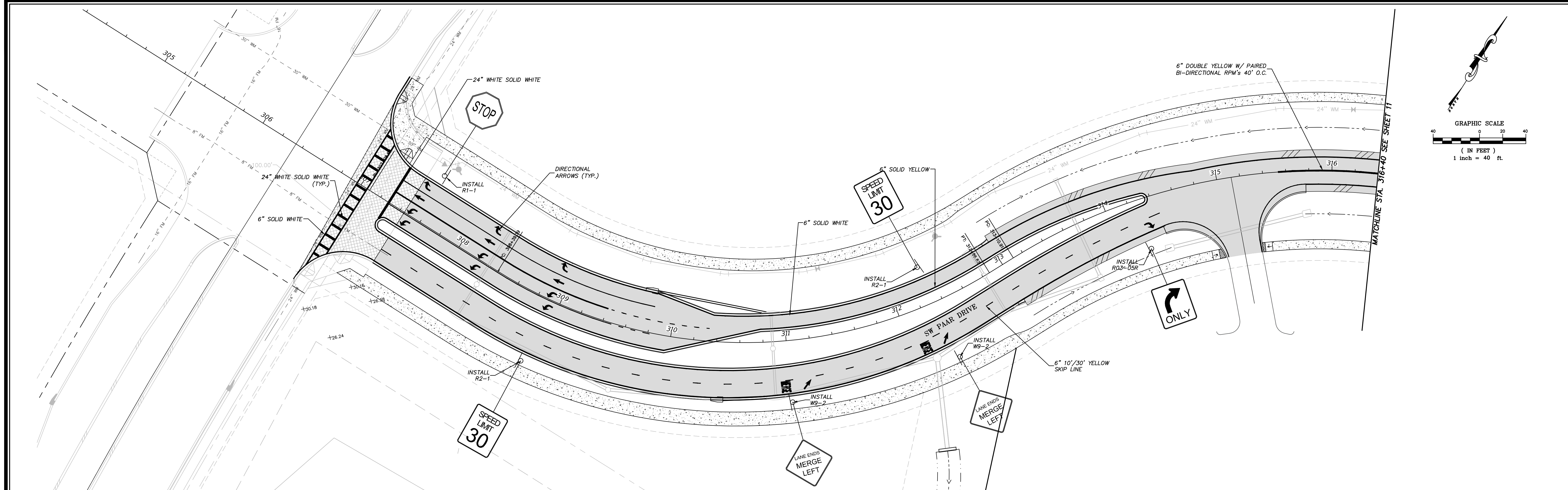
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CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**

**TEMPORARY TRAFFIC CONTROL PLANS**

DATE: 04/02/2021  
HORIZ. SCALE: SCALE  
VERT. SCALE: SCALE  
JOB No. 21-023  
SHEET 11 of 12

PSLUSD PROJECT NO. 5360C  
CITY OF PSL PROJECT NO. P21-059  
STEFAN K. MATTHEWS, P.E.  
FL. REG. NO. 38723



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- REVISIONS -		
ADJUSTED SAN & SD-13 & SD-14, REMOVED E-W LEG OF SAN.	BY	DATE
	DRP	02/24/21

DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	03/10/21
DETAILED		
CHECKED		
APPROVED		

**SW PAAR DRIVE**  
**SIGNING AND PAVEMENT MARKING PLAN**

DATE: 04/02/2021  
HORIZ. SCALE: SCALE  
VERT. SCALE: SCALE  
JOB No. 21-023  
SHEET 12 of 12