

PLANS PREPARED FOR

VERANDA FALLS

CONTRACT PLANS

VERANDA FALLS ROADWAY PLAN

CITY OF PORT ST. LUCIE

COMPONENTS OF CONTRACT PLANS SET
* ROADWAY CONSTRUCTION PLANS

INDEX OF PLANS

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

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>

LEGAL DESCRIPTION

BEING ALL OF TRACT R-1 AND TRACT R-2, ACCORDING TO THE PLAT OF VERANDA PLAT NO. 8, AS RECORDED IN PLAT BOOK ____, PAGE ____, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

CONTAINING 1.985 ACRES, MORE OR LESS.

UTILITIES

TO BE CONSTRUCTED PER CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT UTILITY STANDARDS MANUAL AND DETAILS 2019 EDITION (EFFECTIVE 01/01/19)

BENCHMARK

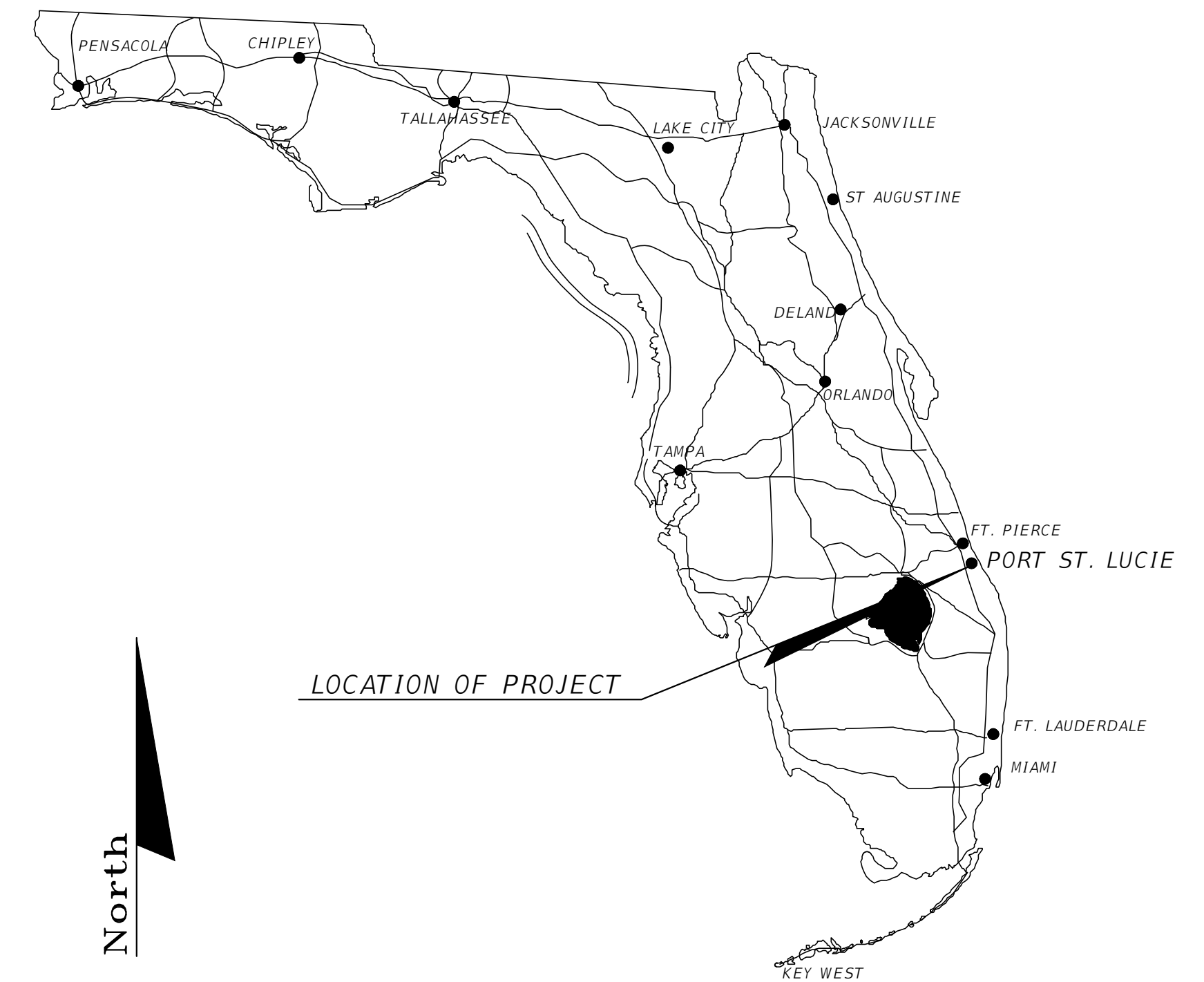
Elevations shown hereon are based on the North rim of existing Sanitary Manhole # 14 having an elevation of 13.99 feet based on the North American Vertical Datum (N.A.V.D.) of 1988.

REVISIONS



LENGTH OF PROJECT		
	LIN. FT.	MILES
UTILITY	0 LF	0.000
ROADWAY	749.33 LF	0.142
BRIDGES	0 LF	0.000
EXCEPTIONS		
GROSS LENGTH OF PROJ.	749.33 LF	0.142

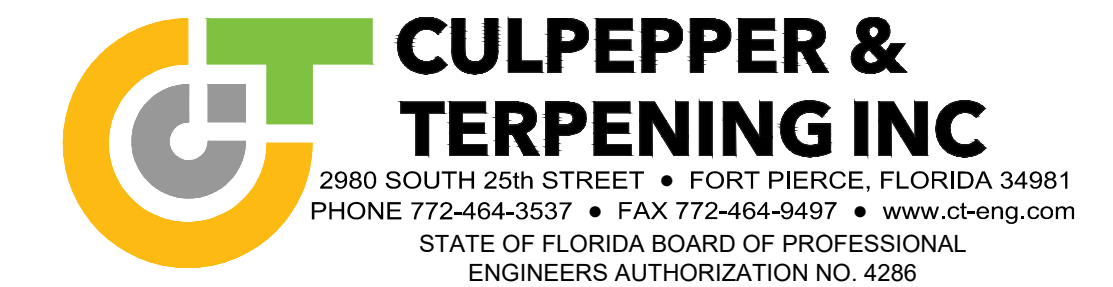
KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION



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.

30% CONSTRUCTION PLANS
OCTOBER 15, 2021

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

PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140

C&T JOB NO.: 20-237

FISCAL YEAR	SHEET NO.
21	1

ITEM NO.	DESCRIPTION	UNIT	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	2,300
104-15	SOIL TRACKING PREVENTION DEVICE	EA	1
104-18	INLET PROTECTION SYSTEM	EA	4
110-1	CLEARING & GRUBBING	AC	4
120-1	REGULAR EXCAVATION	CY	300
120-3	LATERAL DITCH EXCAVATION	CY	1,000
120-6	EMBANKMENT	CY	300
160-4	TYPE B STABILIZATION (12" THICK)	SY	3,610
285-710	OPTIONAL BASE, BASE GROUP 09 (LBR 100)(10" THICK)	SY	3,185
327-70-1	MILLING EXISTING ASPH PAVT, 1" AVG DEPTH	SY	1,090
334-1-13	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-12.5) (2" THICK)	TON	471
425-1-351	INLETS, CURB, TYPE P-5, <10'	EA	2
430-174-124	PIPE CULVERT, OPTIONAL, ROUND, 18"	LF	74
430-982-130	MITERED END SECTION, OPTIONAL, ROUND 18"	EA	1
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	2,055
520-1-2102	CONCRETE CURB, TYPE A	LF	415
520-1-2102	CONCRETE CURB, HEADER	LF	1,200
532-1	PATTERNED PAVEMENT - VEHICULAR AREAS (STAMPED CONCRETE)	SY	213
522-1	CONCRETE SIDEWALK/PADS, 4" THICK	SY	915
570-1-1	PERFORMANCE TURF, SEED & MULCH (LATERAL DITCHES)	SY	2,777
570-1-2	PERFORMANCE TURF, SOD	SY	3,450
590-70	LANDSCAPE COMPLETE - STREET TREES	EA	25
590-80	IRRIGATION SYSTEM	LS	1
700-1-11	SINGLE POST SIGN, F&I GM, < 12 SF	EA	3
1050-31208C	UTILITY PIPE,PVC, F&I, 12" WATER MAIN	LF	336
1080-24108B	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, 12" WM	EA	1
1080-24113	UTILITY FIXTURE - WATER MAIN JUMPER	EA	1
1080-32102	UTILITY FIXTURE - SAMPLE POINT	EA	2
2000-2	12" WATER MAIN CONNECTION	EA	1
2100-1	8" PVC GRAVITY SEWER	LF	339
2100-2	4' SANITARY MANHOLE	EA	3

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 SOUTHERLY, 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 PDDES 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 ANY PUBLIC ROADWAYS 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.
 - OFFSET 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 FOOT 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/REMEDICATION 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.

Environmental Studies				
Description	Found (Yes/No)	Agency Contact Information	Management Plan (Yes/No)	Relocation Plan (Yes/No)
Wetlands	n		n	n
Rare Habitat	n		n	n
Threatened Species	y		n	n
Endangered Species	n		n	t/b/d
Species of Special Concern	n		n	n
Invasive/Exotic Vegetation	n		n	n

PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140

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



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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PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

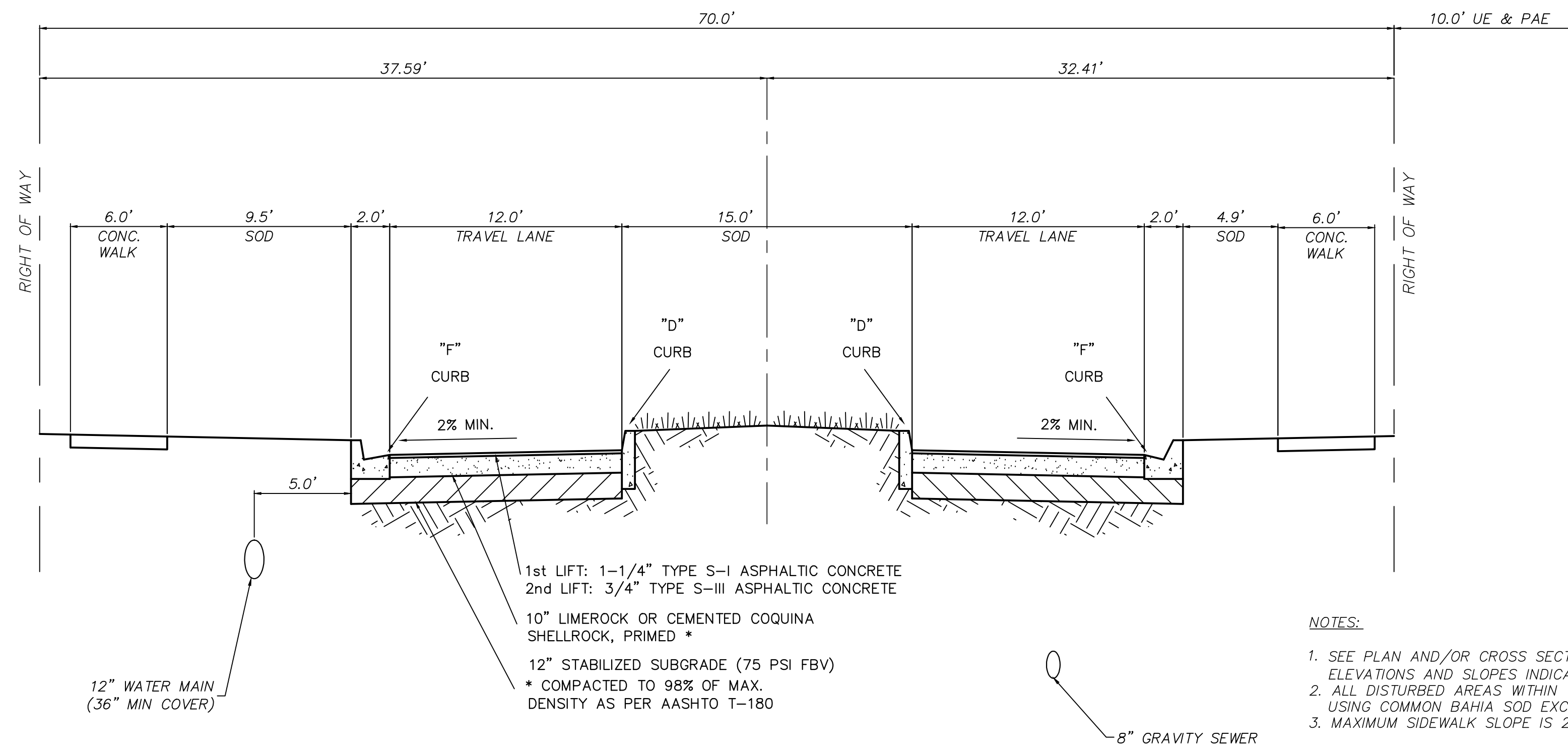
- REVISIONS -		
NO.	BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	06/16/21
DETAILED		
CHECKED		
APPROVED		

VERANDA FALLS ROADWAY PLAN

GENERAL NOTES & SUMMARY OF PAY ITEMS

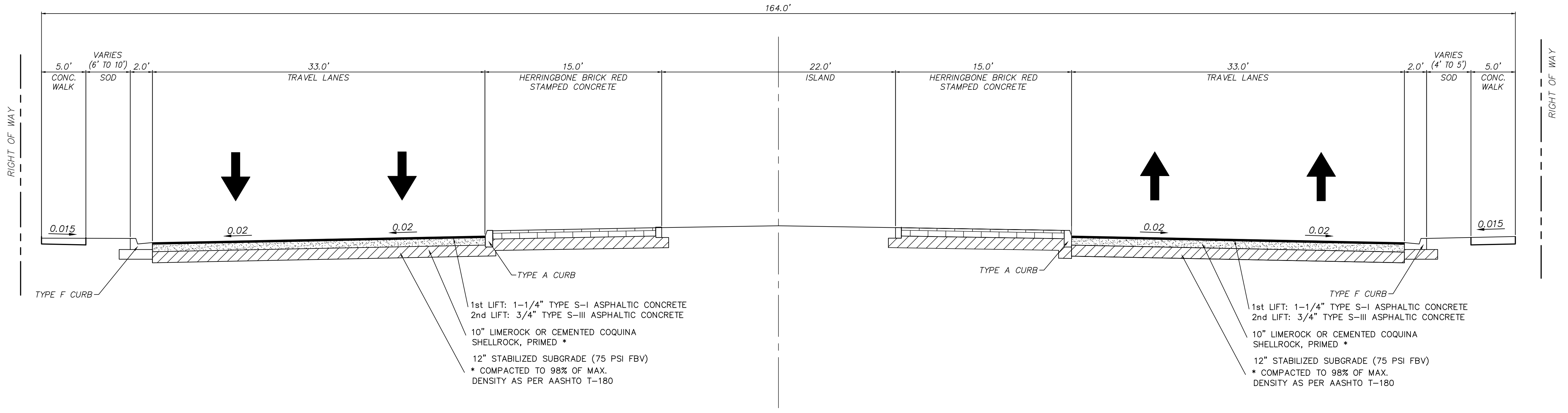
DATE: 10/15/2021
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB NO. 20-237
SHEET 2 of 12



TYPICAL SECTION ①
 STA 51+00.00 TO STA 58+49.33
 DESIGN SPEED = 35 MPH

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%.

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



TYPICAL SECTION ②
 ROUNDABOUT
 STA 11+09.01 TO STA 13+43.94
 DESIGN SPEED = 35 MPH

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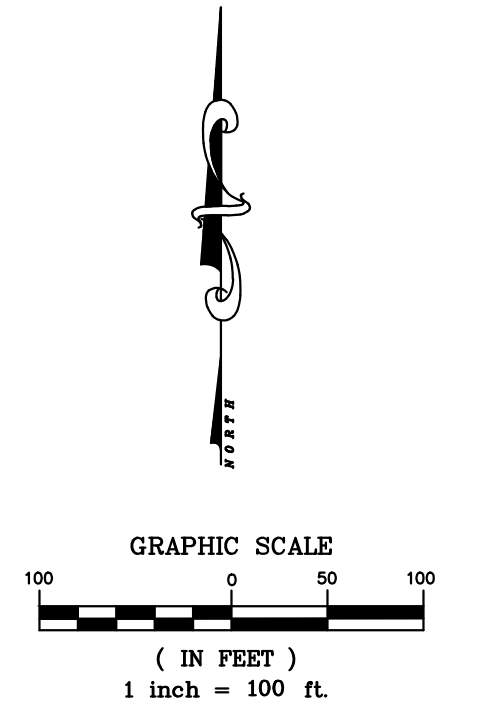
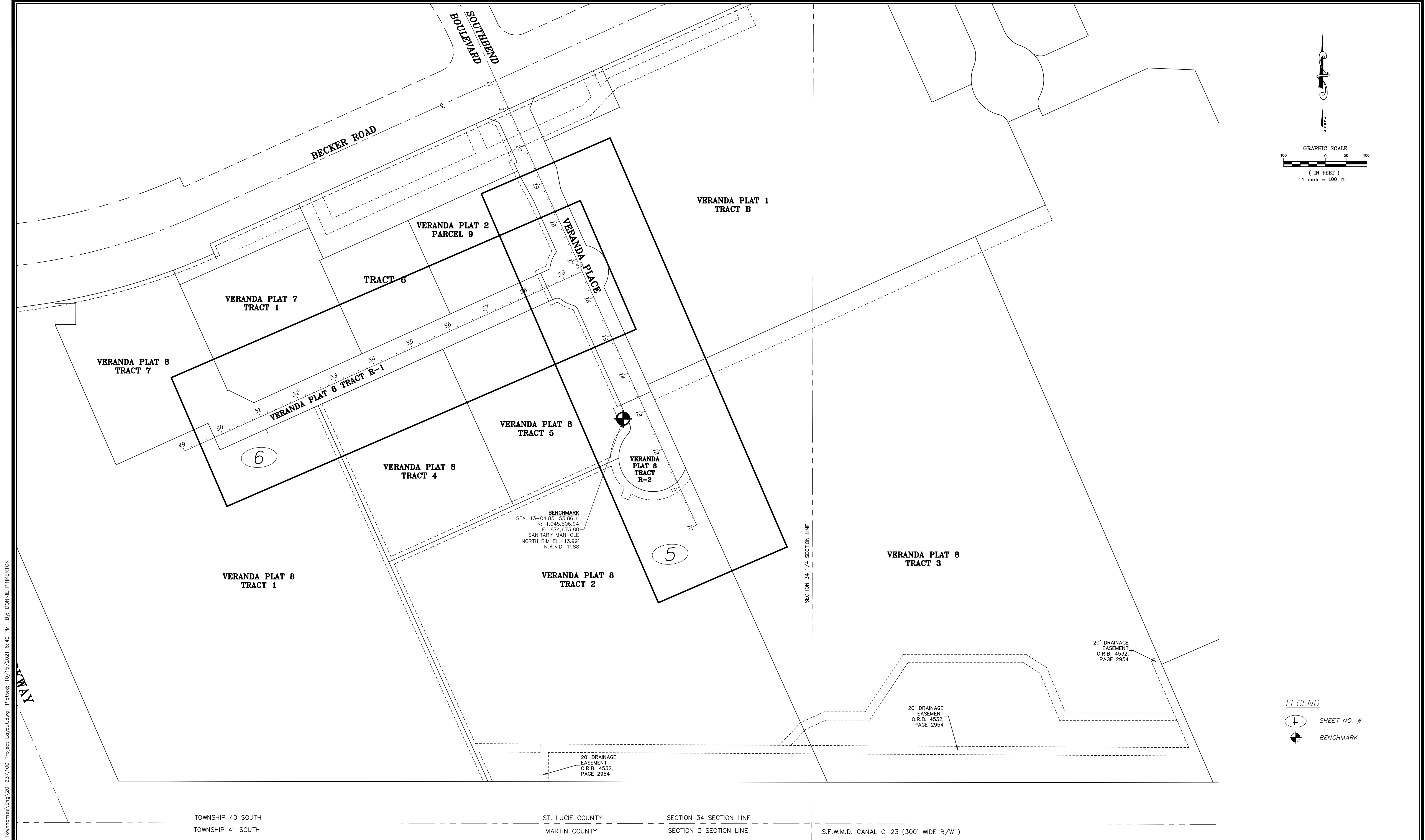
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DESIGNED		
CALCS.		
DRAWN	DRP	06/16/21
DETAILED		
CHECKED		
APPROVED		

VERANDA FALLS ROADWAY PLAN
TYPICAL SECTIONS

DATE: 10/15/2021
 HORIZ. SCALE: N/A
 VERT. SCALE: N/A
 JOB No. 20-237
 SHEET 3 of 12

PSLUSD PROJECT NO. 11-824-13
 CITY OF PSL PROJECT NO. P21-140
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723



LEGEND

⊕ SHEET NO. #

⊕ BENCHMARK

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PSLUSD PROJECT NO. 11-824-13
 CITY OF PSL PROJECT NO. P21-140

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



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- REVISIONS -		BY	DATE

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DESIGNED		
CALCS.		
DRAWN	DRP	06/16/21
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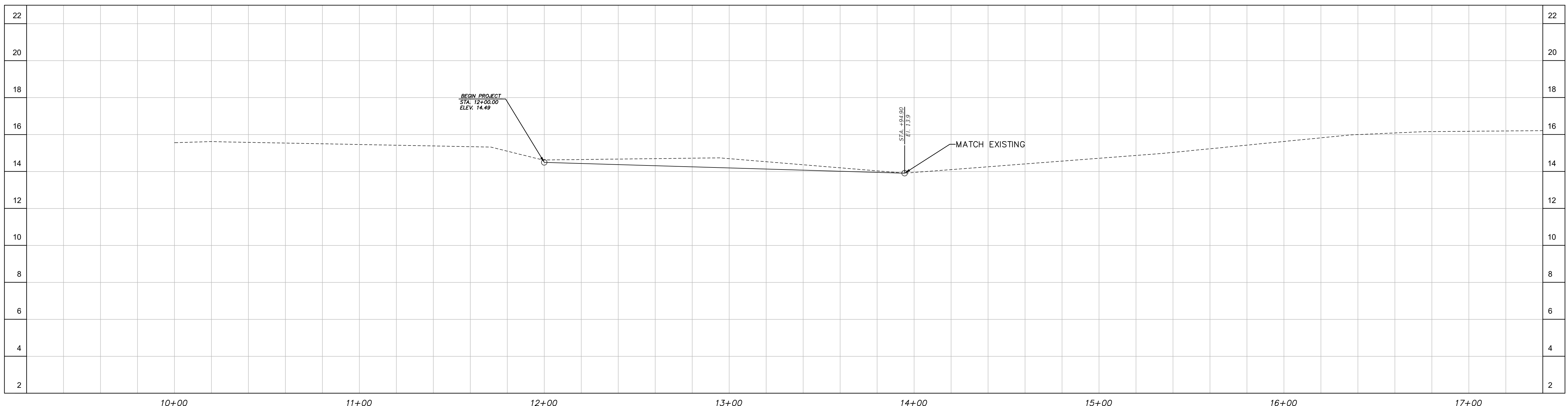
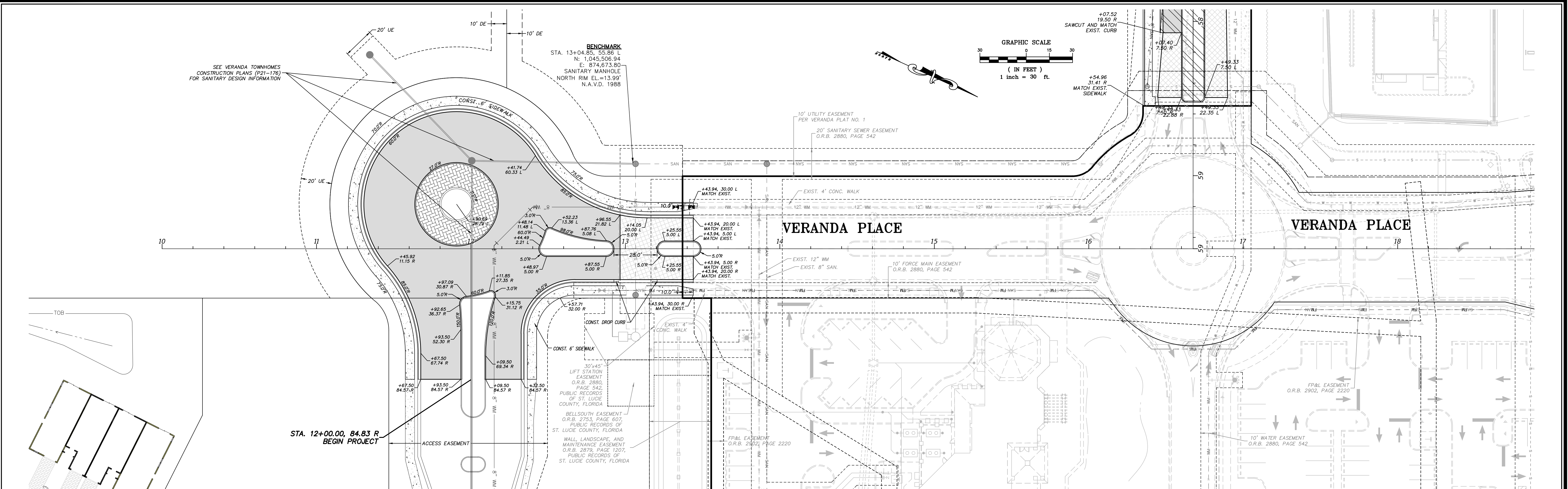
VERANDA FALLS ROADWAY PLAN

PROJECT LAYOUT

DATE: 10/15/2021
 HORIZ. SCALE: 1"=100'
 VERT. SCALE: N/A

JOB No. 20-237

SHEET 4 of 12



	CONST. HERRINGBONE BRICK RED STAMPED CONCRETE		CONST. 4" THICK CONCRETE SIDEWALK		CONST. NEW ROADWAY		MILL AND RESURFACE EXISTING PAVEMENT
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PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140

STEFAN K. MATTHEWS, P.E.
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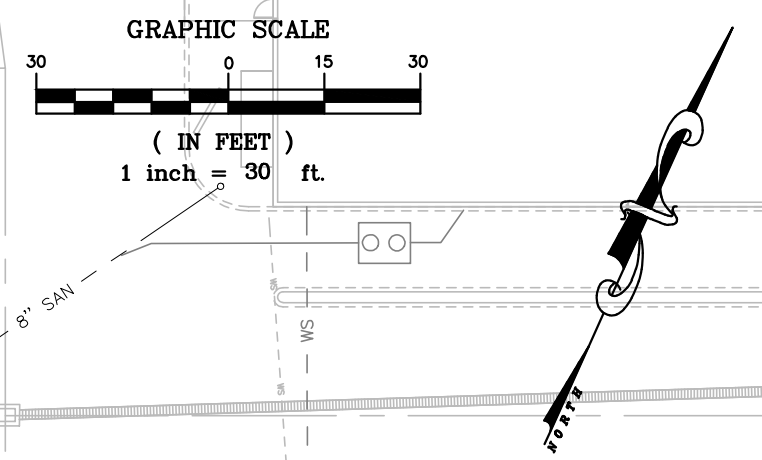
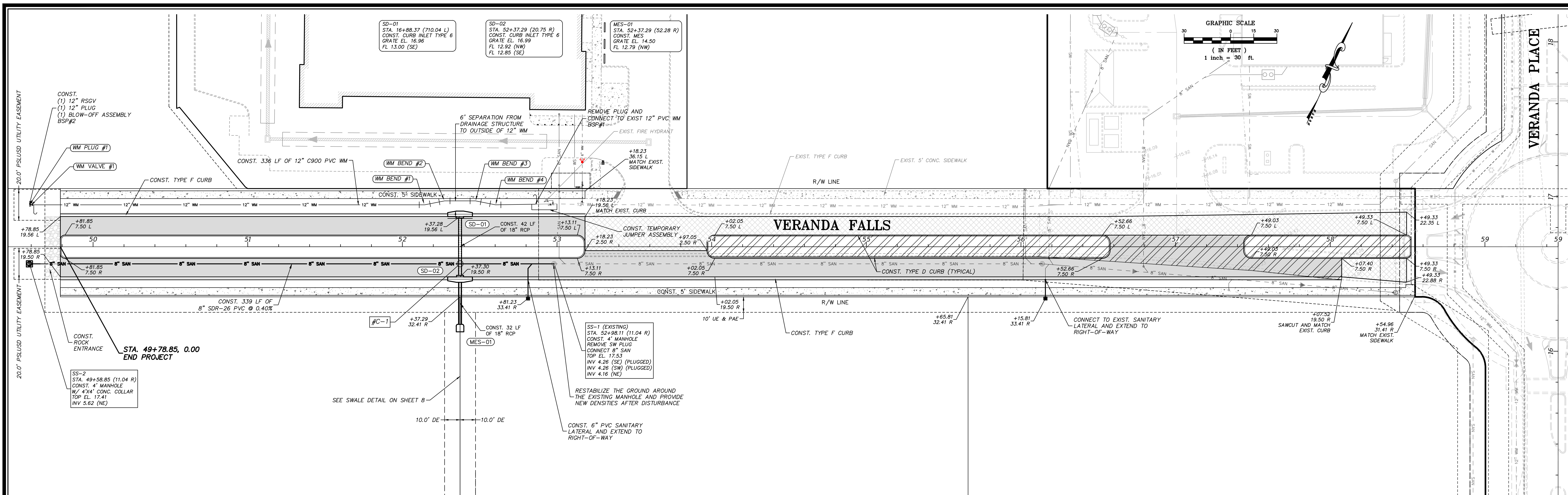
- REVISIONS -		
BY	DATE	

DESIGNED	BY	DATE

VERANDA FALLS ROADWAY PLAN
VERANDA PLACE PLAN AND PROFILE

DATE: 10/15/2021
HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=3'
JOB No. 20-237
SHEET 5 of 12

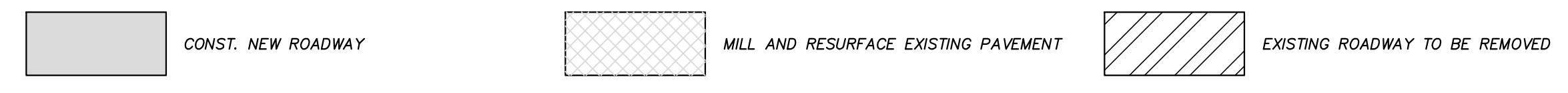
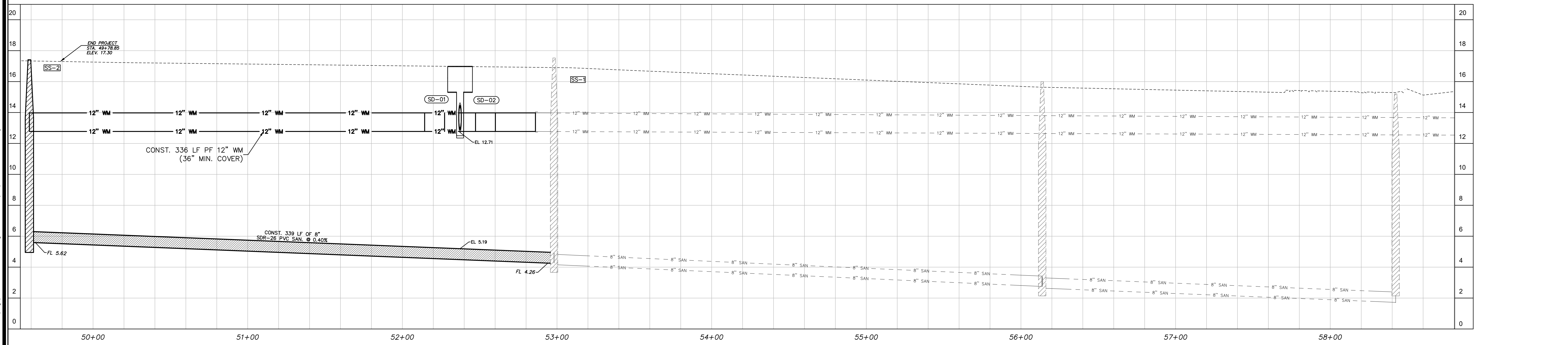
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FITTING TABLE					
FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
WM BEND #1	12" 11.25' BEND	52+14.41	-27.10	13.97	
WM BEND #2	12" 11.25' BEND	52+27.29	-29.66	13.97	
WM BEND #3	12" 11.25' BEND	52+47.29	-29.66	13.97	
WM BEND #4	12" 11.25' BEND	52+60.18	-27.10	13.97	
WM PLUG #1	12" PLUG	49+58.85	-27.10	13.97	

VALVE TABLE					
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
WM VALVE #1	12" RSGV	49+60.19	-27.10	13.97	

CROSSING #	TYPE	STATION	PIPE CROSSING TABLE			FINISH GRADE	
			CLEARANCE (INCHES)	TOP OF PIPE (ELEV.)	BOTTOM OF PIPE (ELEV.)	(ELEV.)	(ELEV.)
C-1	18" STORM OVER 8" SAN	52+37.29, 11.04 R	90.24"	5.19	SAN 12.71	STM	



PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140



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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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- REVISIONS -		
NO.	BY	DATE

DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	06/16/21

VERANDA FALLS ROADWAY PLAN
EAST-WEST ROAD PLAN AND PROFILE

DATE: 10/15/2021
HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=3'
JOB No. 20-237
SHEET 6 of 12

P:\Proj\2020\20-237\100_Veranda Falls Townhomes_Eng\20-237-100_Base.dwg Plotted: 10/15/2021 7:25 PM By: DONNIE PINKERTON

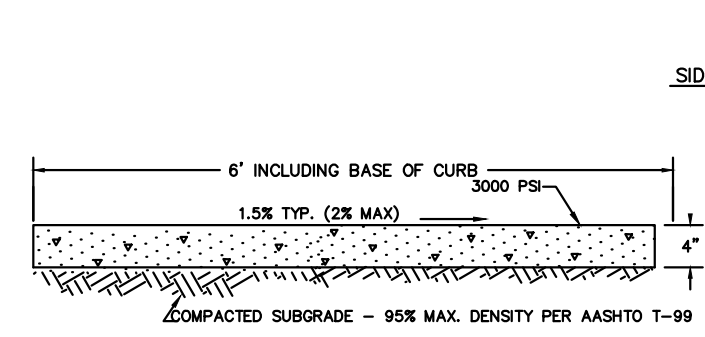
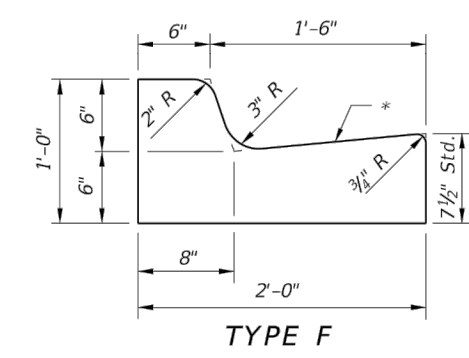
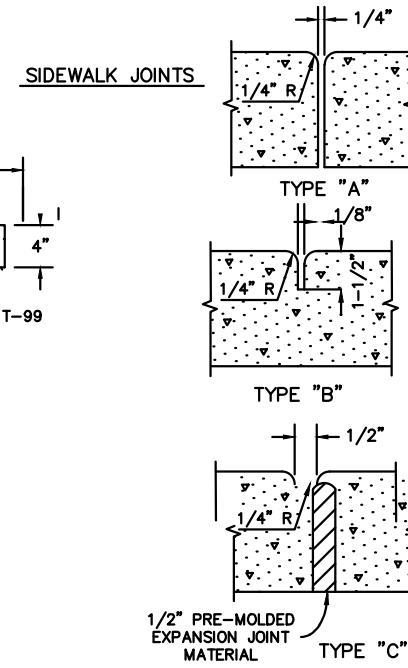


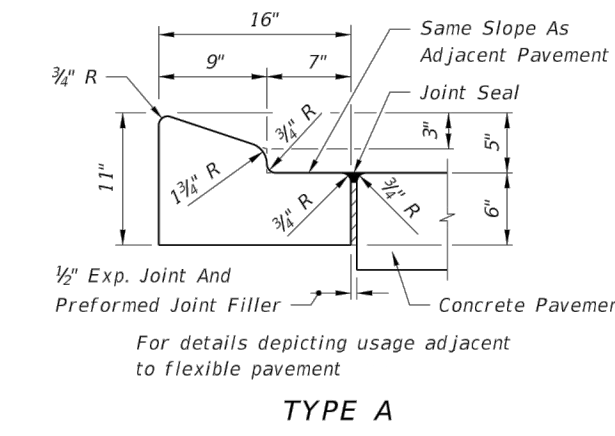
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	AT P.C. AND P.T. OF CURVES AND AT JUNCTION OF EXISTING AND NEW SIDEWALKS.
"B"	5'-0" CENTER TO CENTER ON NEW SIDEWALKS.
"C"	WHERE NEW SIDEWALK ADJUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.

SIDEWALK CONSTRUCTION

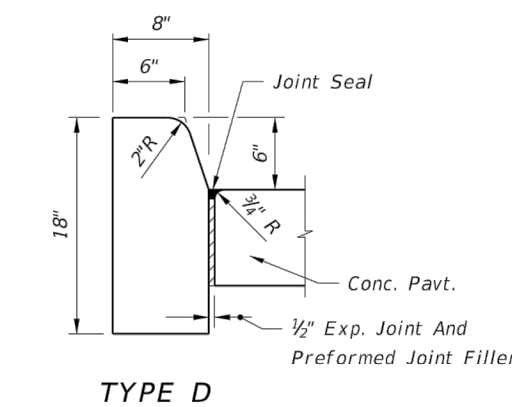
SIDEWALK DETAIL
N.T.S.



TYPE F CURB DETAIL
N.T.S.

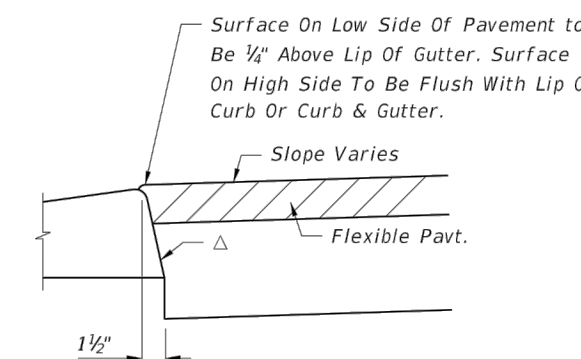


TYPE A CURB DETAIL
N.T.S.



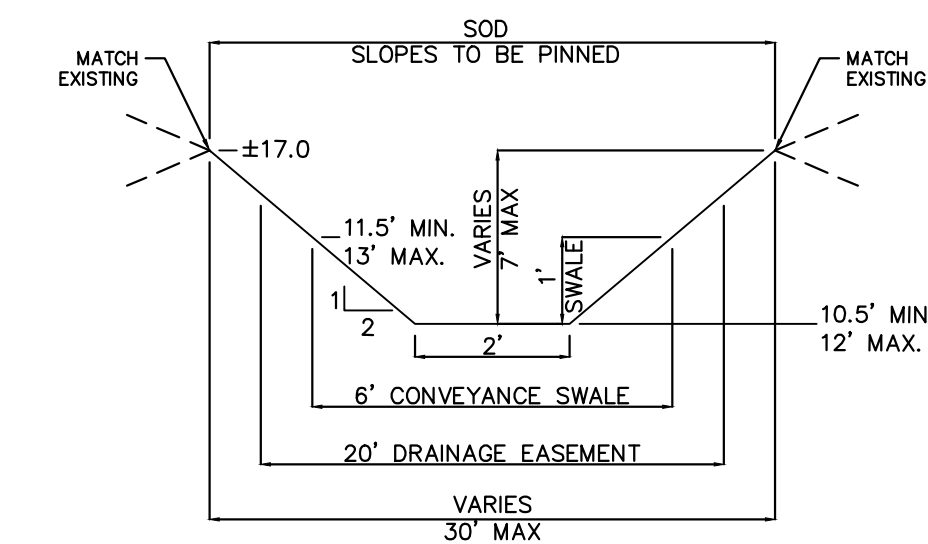
TYPE D CURB DETAIL

Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only.



△ Applies to both high and low sides of pavement, low side shown. Applies to shoulder gutter only where adjoining traffic lanes.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



PROPOSED OUTFALL SWALE TYPICAL SECTION
N.T.S.

P:\Proj-2020\20-237\100_Veranda Falls Townhomes_Eng\20-237 COVER -NOTES.dwg Plotted: 10/15/2021 6:42 PM By: DONNIE PINKERTON

PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140

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



Know what's below.
Call before you dig.

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



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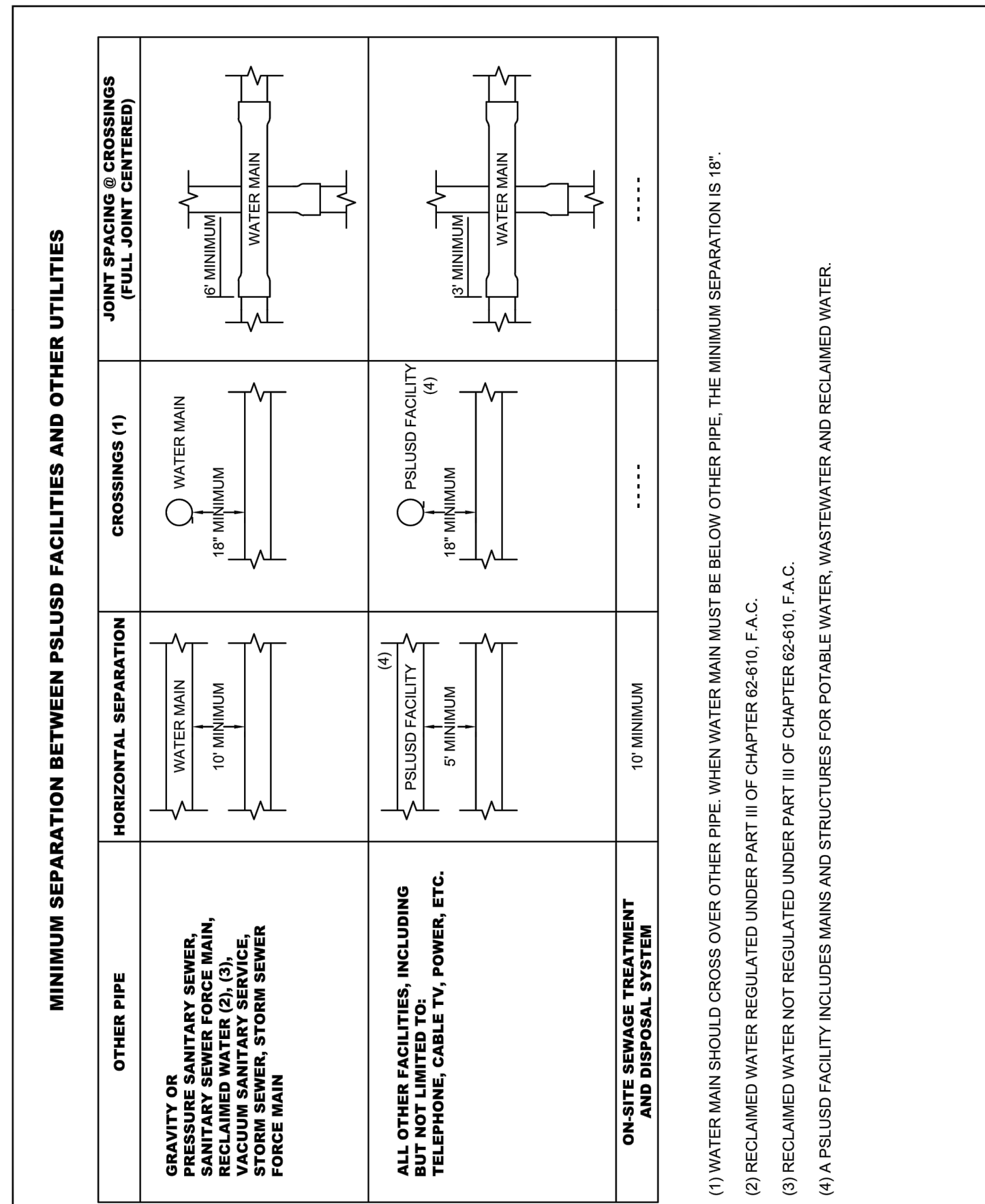
- REVISIONS -

BY	DATE

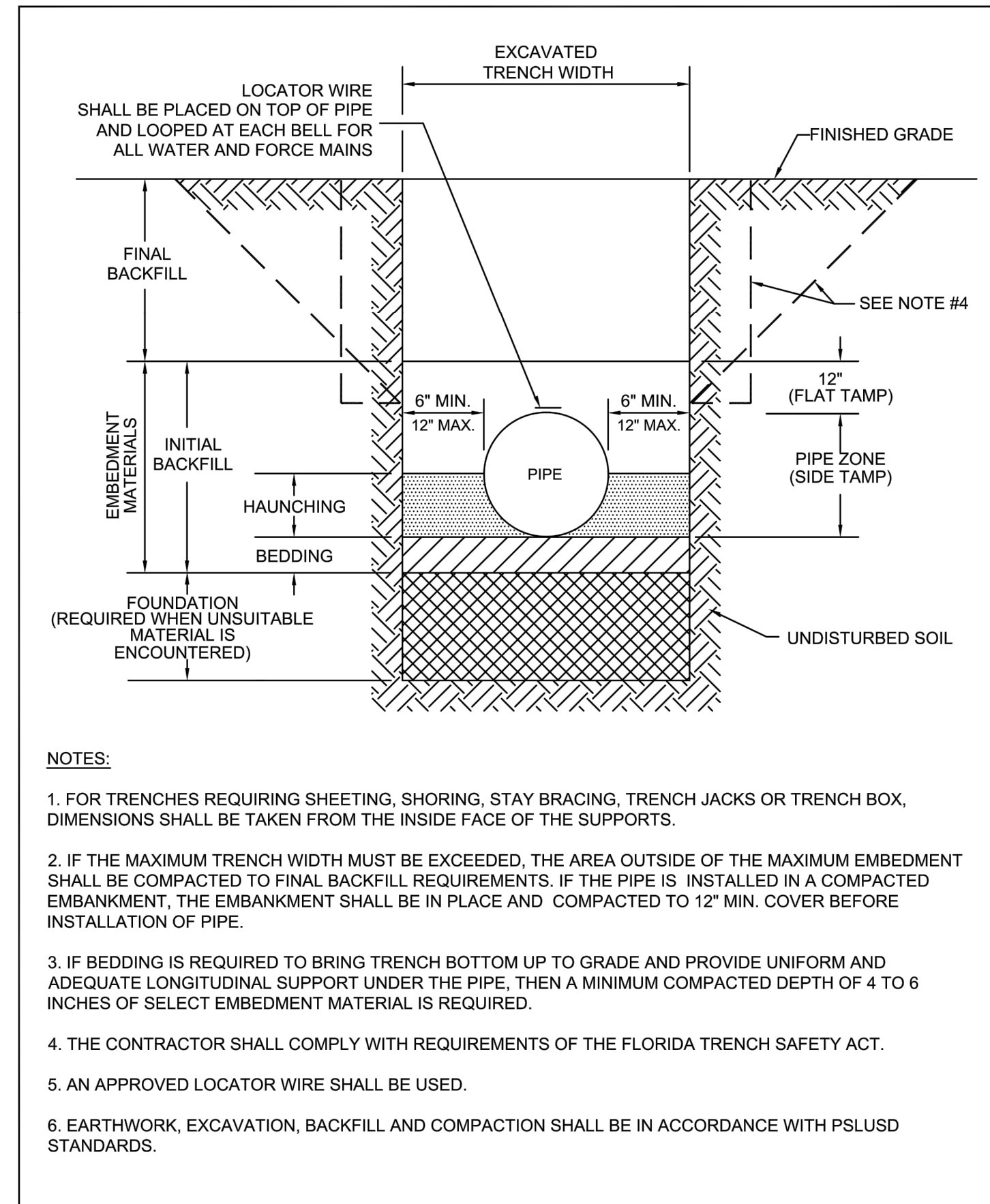
DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	06/16/21
DETAILED		
CHECKED		
APPROVED		

VERANDA FALLS ROADWAY PLAN
DRAINAGE DETAILS

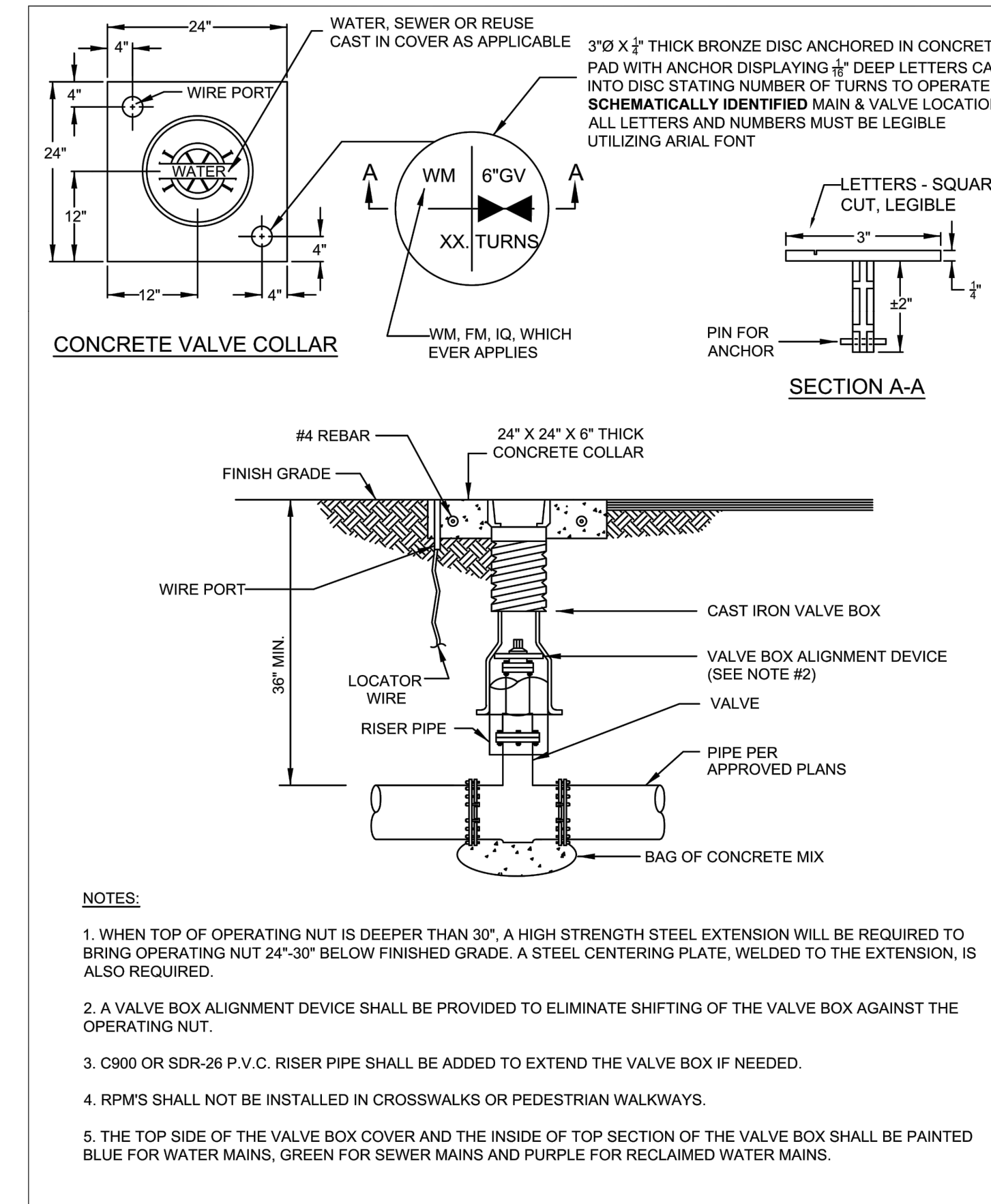
DATE: 10/15/2021
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB No. 20-237
SHEET 8 of 12



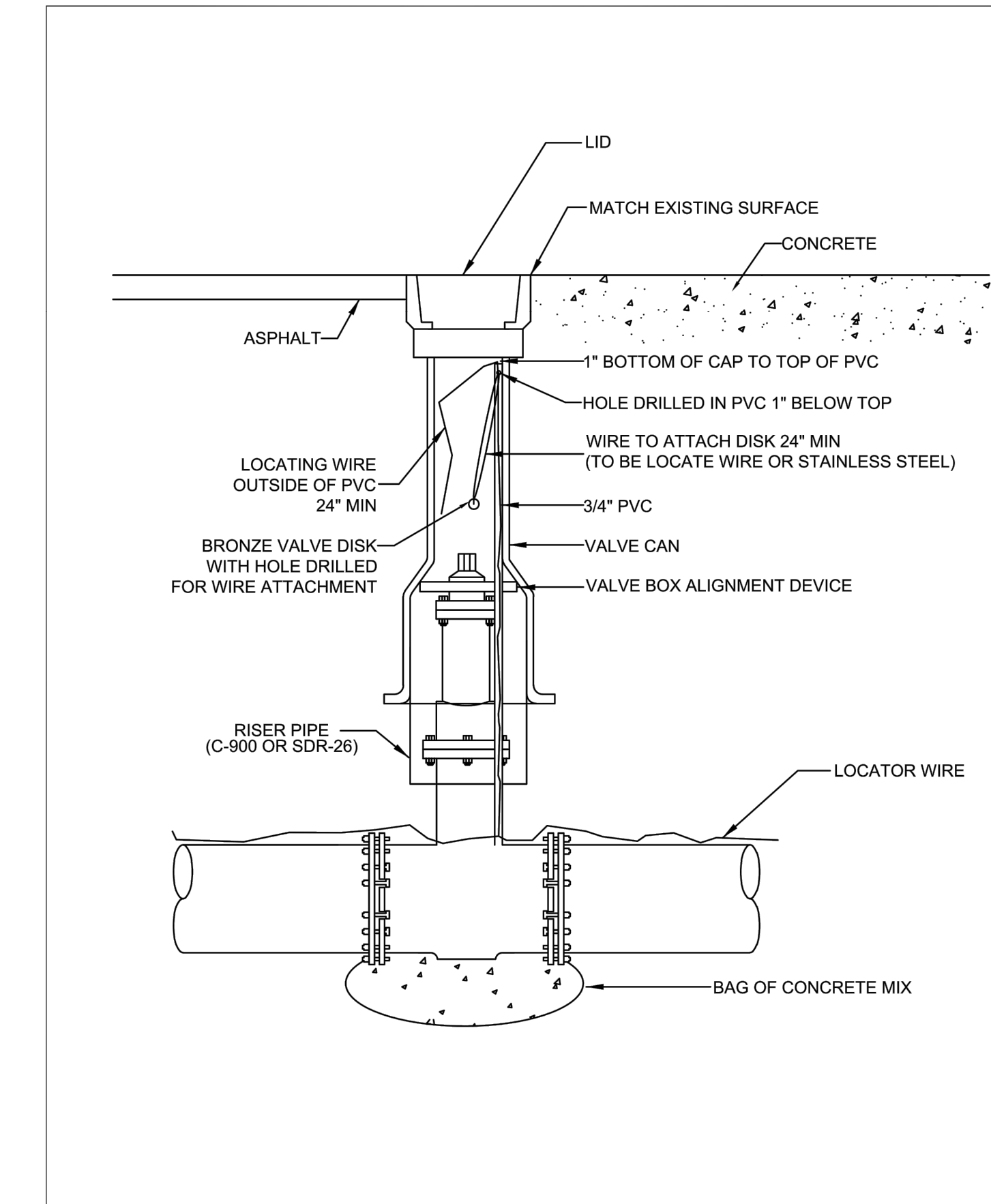
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	STANDARD SEPARATION REQUIREMENTS	DETAIL: G-01 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1



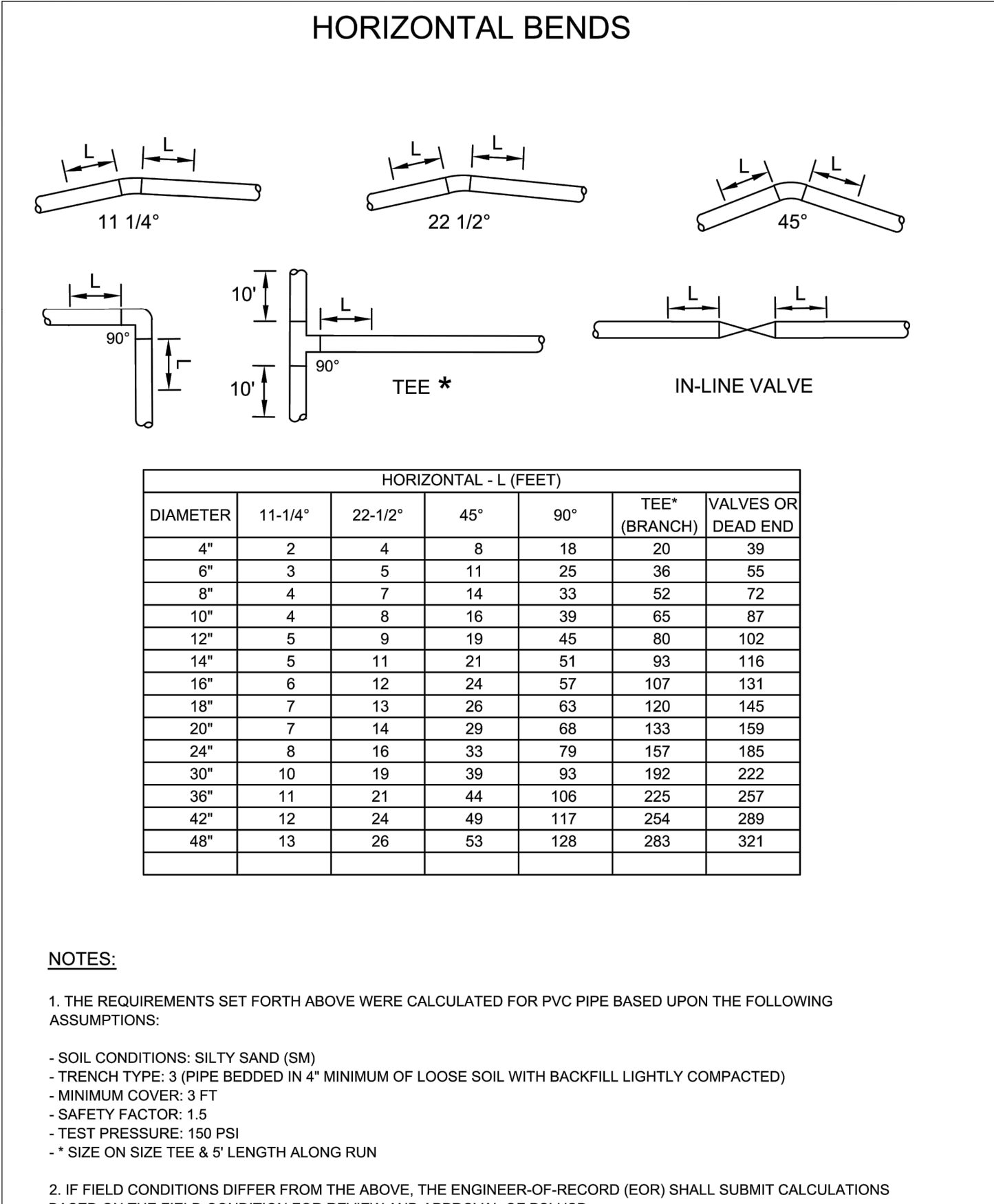
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	STANDARD PIPE TRENCH CROSS SECTION	DETAIL: G-04 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1



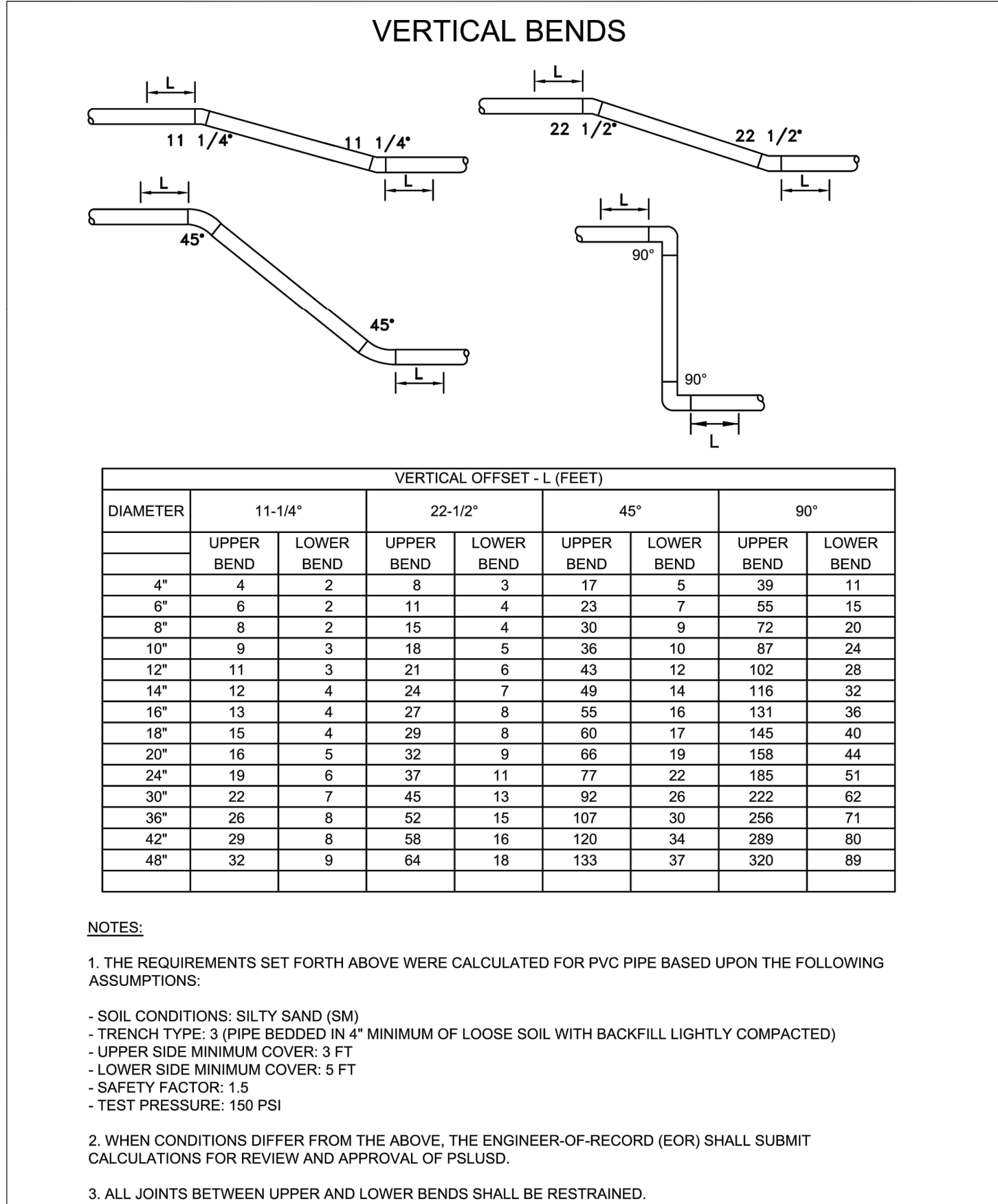
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA	DETAIL: G-07 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 2



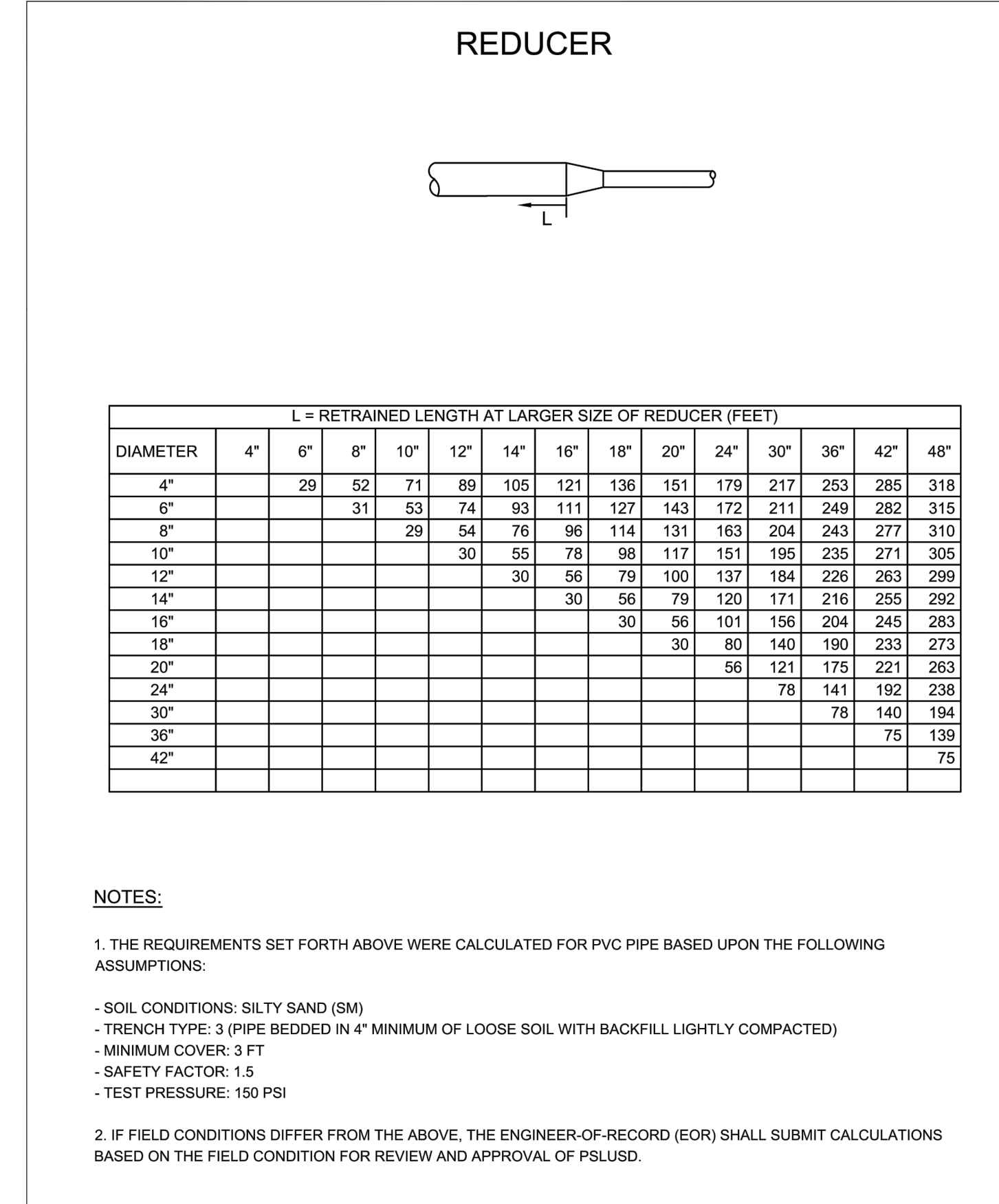
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	TYPICAL VALVE BOX IN PAVED AREA	DETAIL: G-07 DATE: 2019 SCALE: N.T.S. SHEET: 2 OF 2



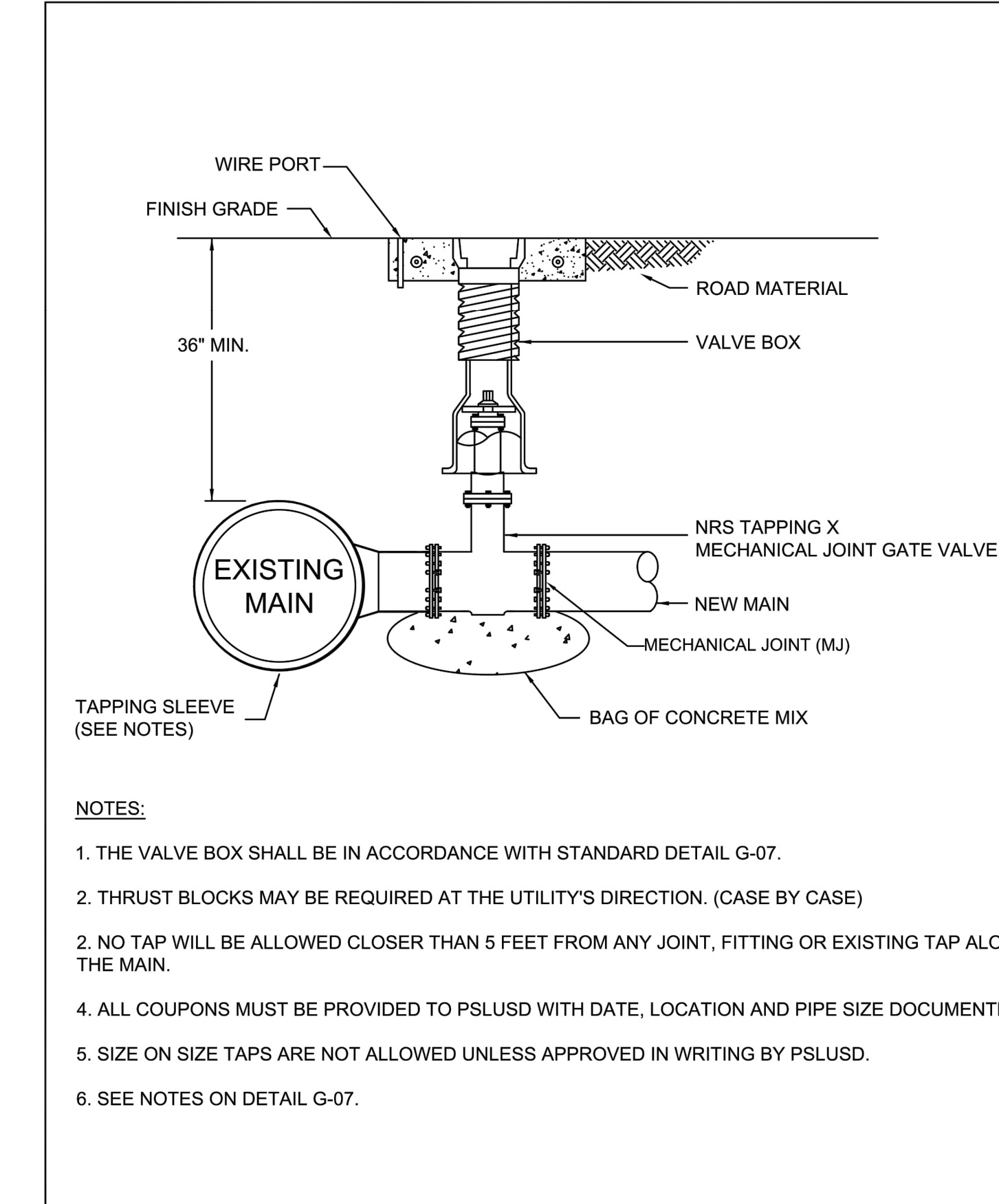
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	PIPELINE RESTRAINT REQUIREMENTS (HORIZONTAL)	DETAIL: G-09 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 3



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)	DETAIL: G-09 DATE: 2019 SCALE: N.T.S. SHEET: 2 OF 3



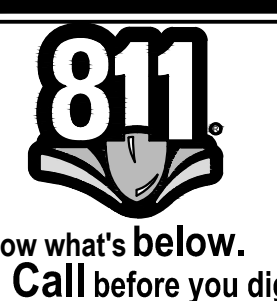
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	PIPELINE RESTRAINT REQUIREMENTS (REDUCER)	DETAIL: G-09 DATE: 2019 SCALE: N.T.S. SHEET: 3 OF 3



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	DETAIL: G-10 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1

PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140

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



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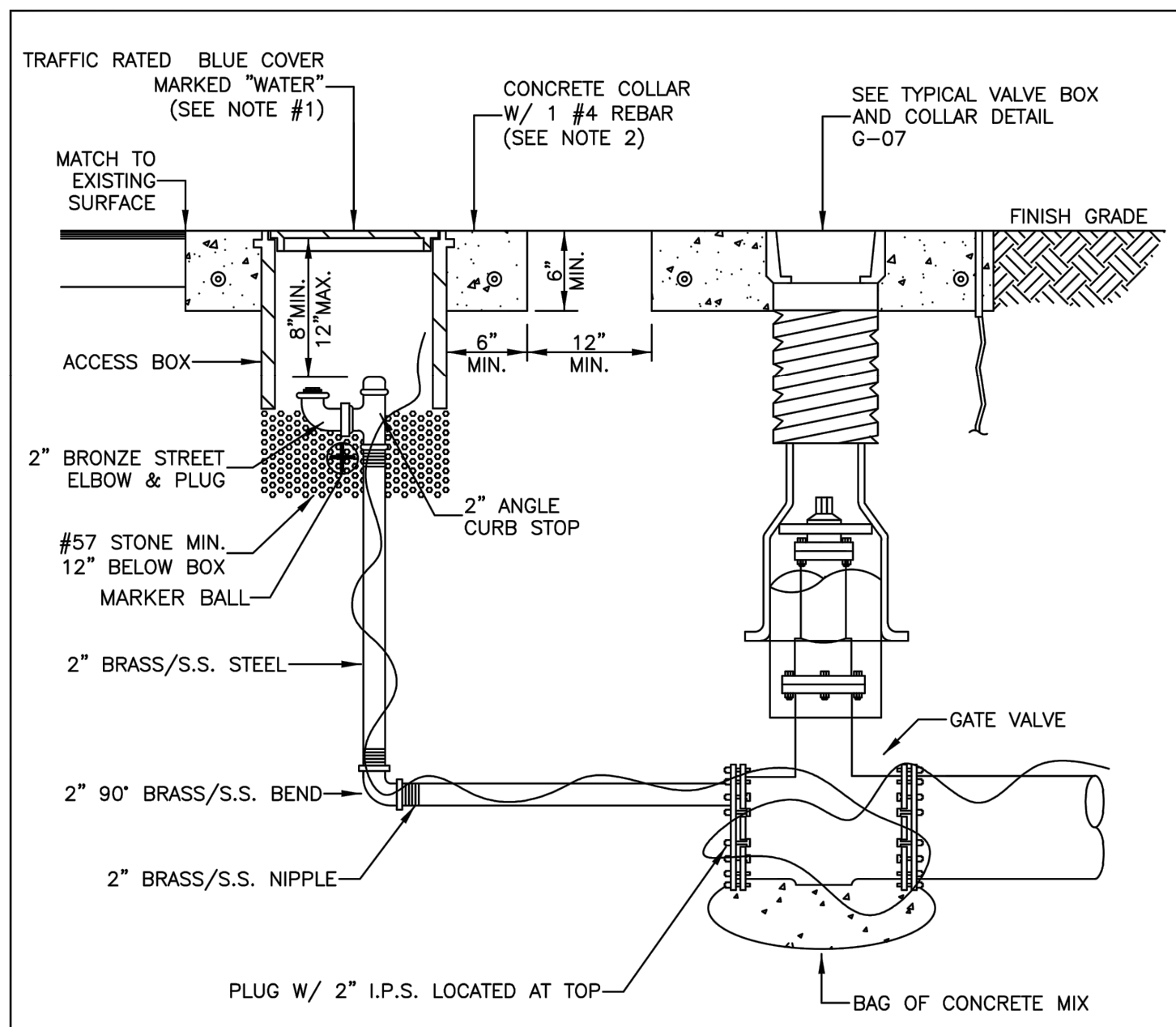
COMPUTER FILE REF.	FIELD BK./PG.

- REVISIONS -		BY	DATE

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DESIGNED		
CALCS.		
DRAWN	DRP	06/16/21
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CHECKED		
APPROVED		

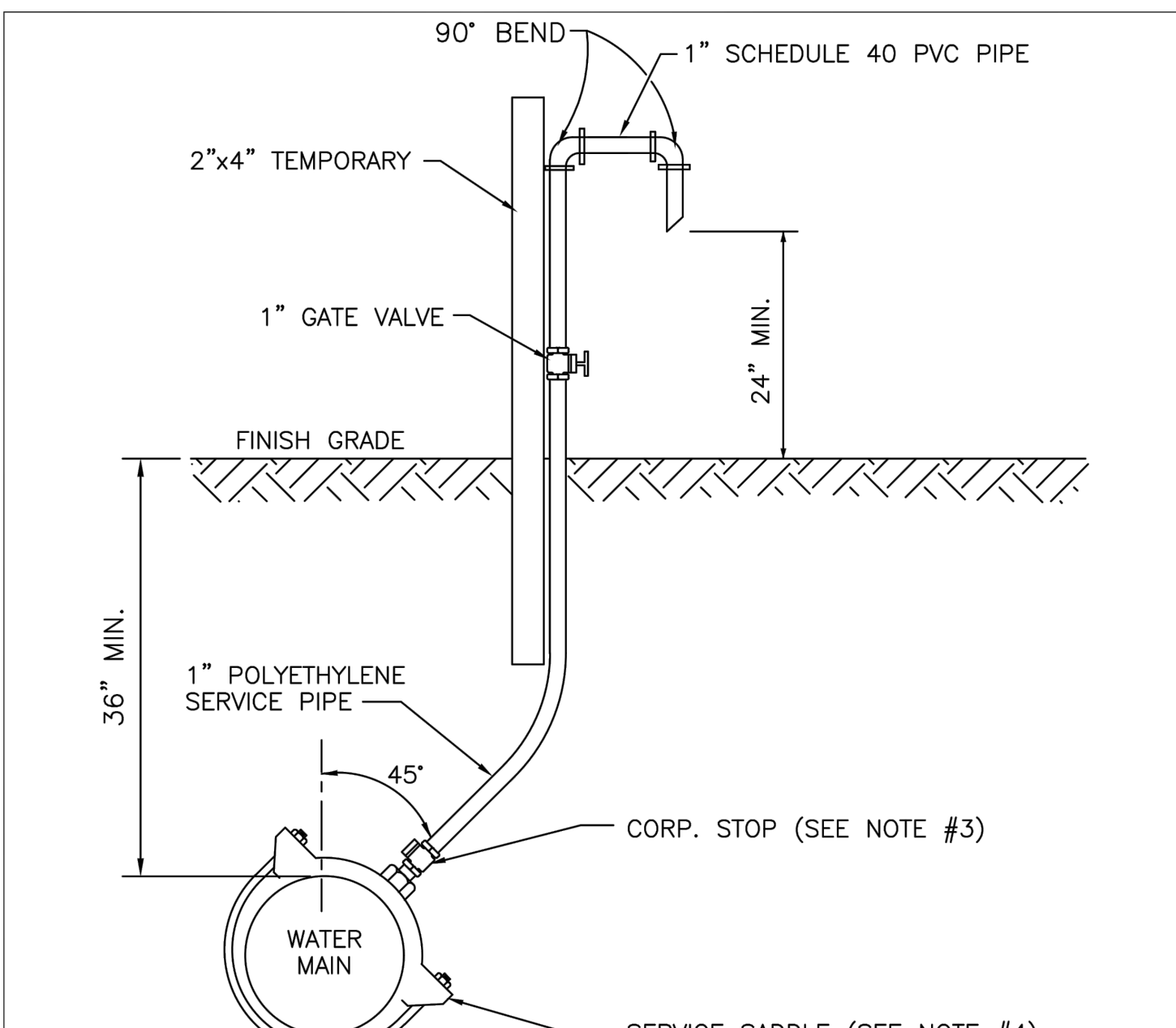
VERANDA FALLS ROADWAY PLAN
UTILITY DETAILS

DATE: 10/15/2021
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB No. 20-237
SHEET 9 of 12



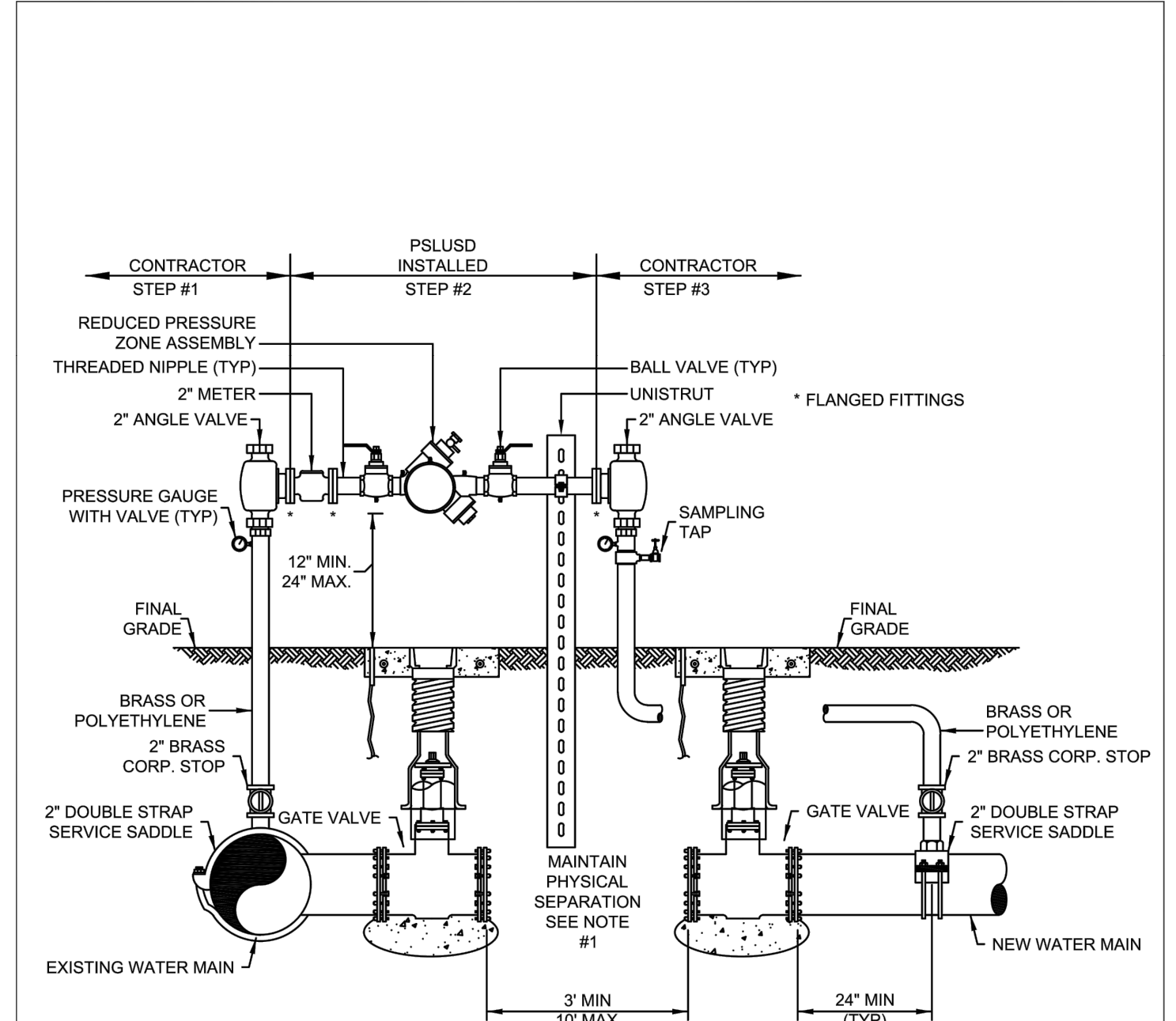
- NOTES:**
- COVER SHALL BE PAINTED BLUE FOR "WATER".
 - NO CONCRETE COLLAR IF LOCATED IN ASPHALT OR CONCRETE.
 - LOCATE WIRE NOT REQUIRED IF SEPARATION BETWEEN THE VALVE BOX AND ACCESS BOX IS 6" OR LESS.

	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	BLOW-OFF ASSEMBLY	DETAIL: W-04 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1
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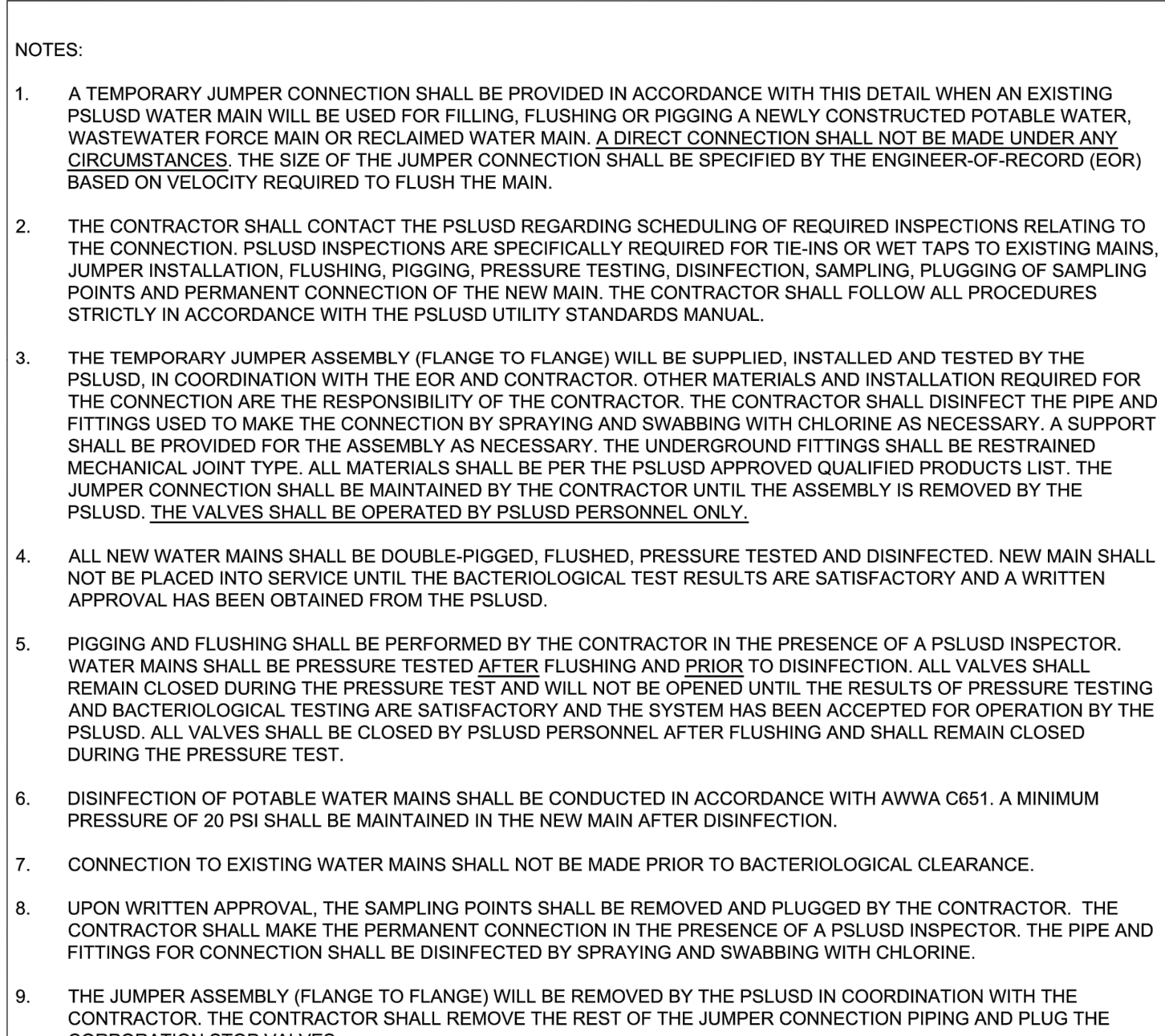
- NOTES:**
- SAMPLING POINTS SHALL BE LOCATED AS SHOWN ON PLANS APPROVED BY PSLUSD AND AS REQUIRED BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. A SAMPLE POINT MAP (SINGLE SHEET PDF) SHALL BE SUBMITTED TO PSLUSD FOR REVIEW PRIOR TO DISINFECTION.
 - THE EXCAVATED HOLE FOR THIS INSTALLATION SHALL BE BACKFILLED TO FINISHED GRADE PRIOR TO DISCHARGING ANY WATER ON THE GROUND.
 - AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED, THE CONTRACTOR SHALL TURN CORPORATION STOP OFF, REMOVE TUBING AND PLUG CORPORATION STOP WITH BRASS PLUG/CAP.
 - NO DIRECT TAPS SHALL BE PERMITTED.

	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	WATER SAMPLING POINT	DETAIL: W-05 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1
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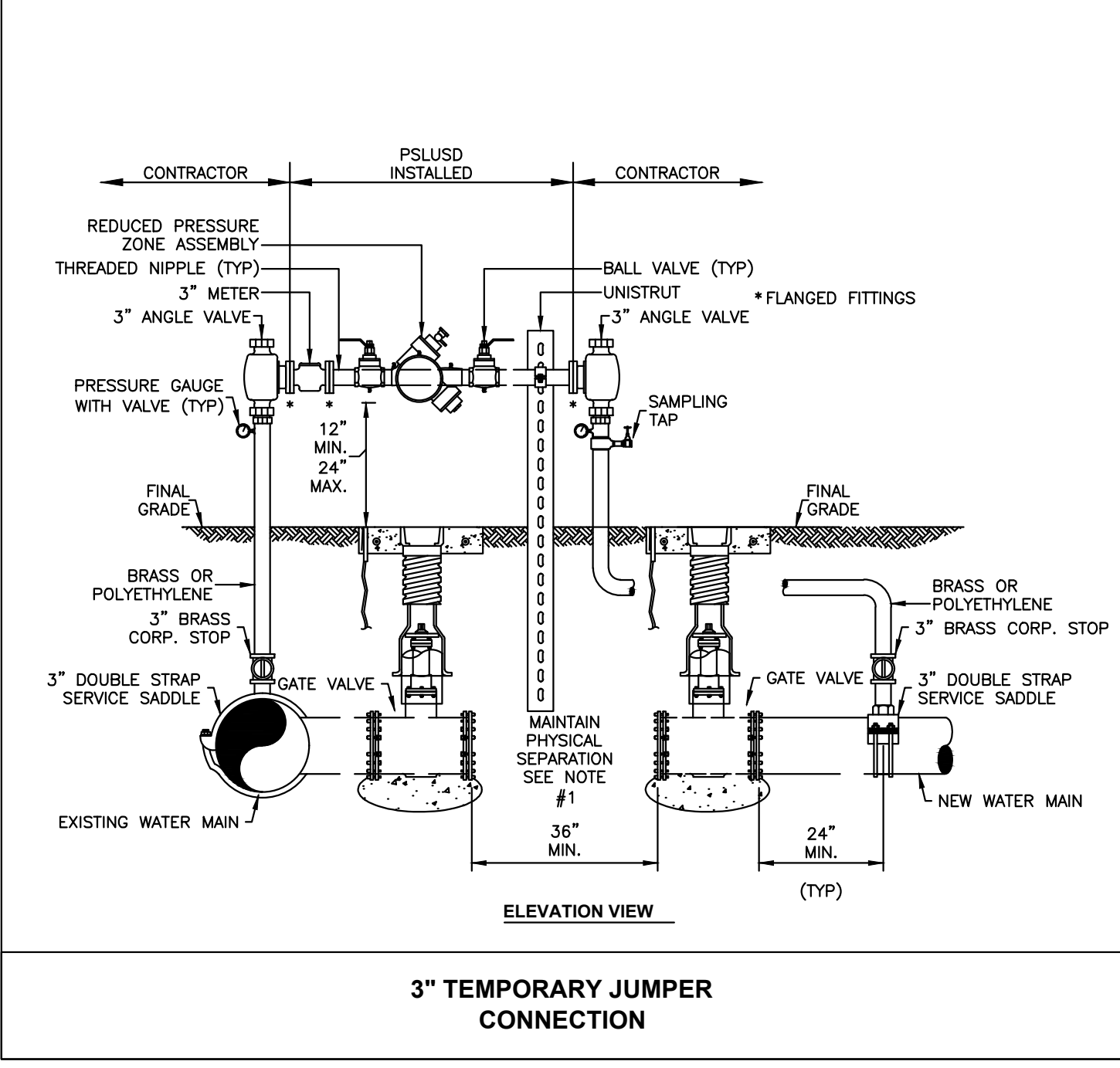
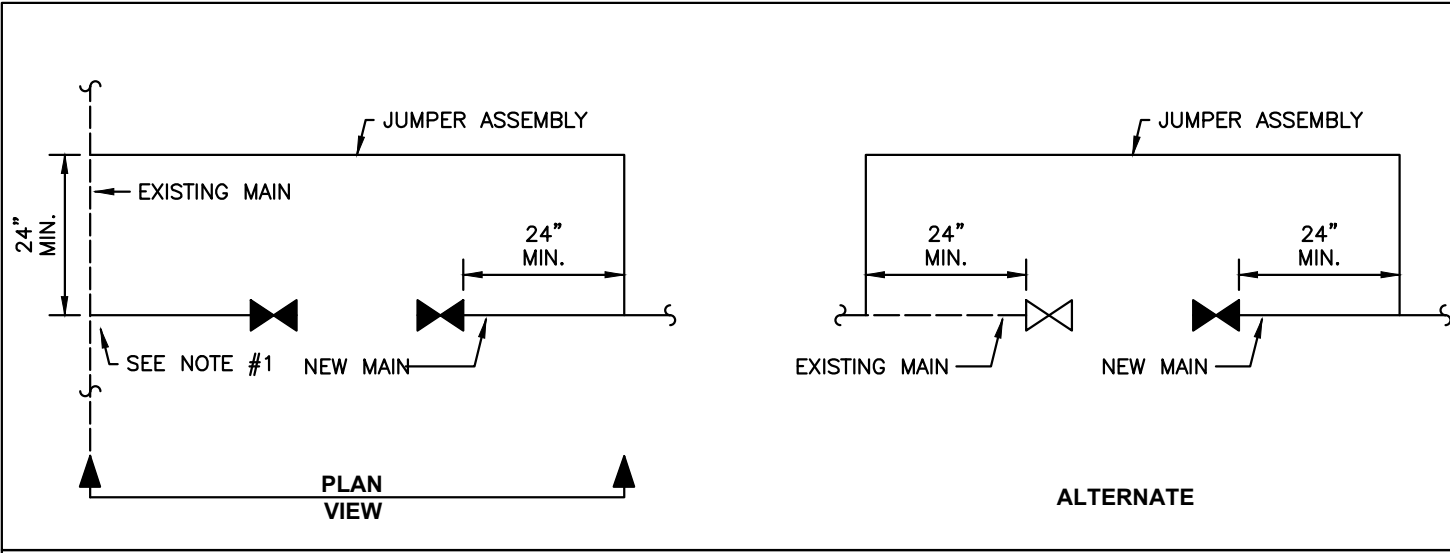
- FOR 2" JUMPER CONNECTIONS UP TO 8" PIPE**
- NOTES:**
- A TEMPORARY JUMPER CONNECTION SHALL BE PROVIDED IN ACCORDANCE WITH THIS DETAIL WHEN AN EXISTING PSLUSD WATER MAIN WILL BE USED FOR FILLING, FLUSHING OR PIGGING A NEWLY CONSTRUCTED POTABLE WATER, WASTEWATER FORCE MAIN OR RECLAIMED WATER MAIN. A DIRECT CONNECTION SHALL NOT BE MADE UNDER ANY CIRCUMSTANCES. THE SIZE OF THE JUMPER CONNECTION SHALL BE SPECIFIED BY THE ENGINEER-OF-RECORD (EOR) BASED ON VELOCITY REQUIRED TO FLUSH THE MAIN.
 - THE CONTRACTOR SHALL CONTACT THE PSLUSD REGARDING SCHEDULING OF REQUIRED INSPECTIONS RELATING TO THE CONNECTION. PSLUSD INSPECTIONS ARE SPECIFICALLY REQUIRED FOR TIE-INS OR WET TAPS TO EXISTING MAINS, JUMPER INSTALLATION, FLUSHING, PIGGING, PRESSURE TESTING, DISINFECTION, SAMPLING, PLUGGING OF SAMPLING POINTS AND PERMANENT CONNECTION OF THE NEW MAIN. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES STRICTLY IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS MANUAL.
 - THE TEMPORARY JUMPER ASSEMBLY (FLANGE TO FLANGE) WILL BE SUPPLIED, INSTALLED AND TESTED BY THE PSLUSD, IN COORDINATION WITH THE EOR AND CONTRACTOR. OTHER MATERIALS AND INSTALLATION REQUIRED FOR THE CONNECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISINFECT THE PIPE AND FITTINGS USED TO MAKE THE CONNECTION BY SPRAYING AND SWABING WITH CHLORINE AS NECESSARY. A SUPPORT SHALL BE PROVIDED FOR THE ASSEMBLY AS NECESSARY. THE UNDERGROUND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT TYPE. ALL MATERIALS SHALL BE PER THE PSLUSD APPROVED QUALIFIED PRODUCTS LIST. THE JUMPER CONNECTION SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE ASSEMBLY IS REMOVED BY THE PSLUSD. THE VALVES SHALL BE OPERATED BY PSLUSD PERSONNEL ONLY.
 - ALL NEW WATER MAINS SHALL BE DOUBLE-PIGGED, FLUSHED, PRESSURE TESTED AND DISINFECTED. NEW MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL THE BACTERIOLOGICAL TEST RESULTS ARE SATISFACTORY AND A WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE PSLUSD.
 - PIGGING AND FLUSHING SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF A PSLUSD INSPECTOR. WATER MAINS SHALL BE PRESSURE TESTED AFTER FLUSHING AND PRIOR TO DISINFECTION. ALL VALVES SHALL REMAIN CLOSED DURING THE PRESSURE TEST AND WILL NOT BE OPENED UNTIL THE RESULTS OF PRESSURE TESTING AND BACTERIOLOGICAL TESTING ARE SATISFACTORY AND THE SYSTEM HAS BEEN ACCEPTED FOR OPERATION BY THE PSLUSD. ALL VALVES SHALL BE CLOSED BY PSLUSD PERSONNEL AFTER FLUSHING AND SHALL REMAIN CLOSED DURING THE PRESSURE TEST.
 - DISINFECTION OF POTABLE WATER MAINS SHALL BE CONDUCTED IN ACCORDANCE WITH AWWA C651. A MINIMUM PRESSURE OF 20 PSI SHALL BE MAINTAINED IN THE NEW MAIN AFTER DISINFECTION.
 - CONNECTION TO EXISTING WATER MAINS SHALL NOT BE MADE PRIOR TO BACTERIOLOGICAL CLEARANCE.
 - UPON WRITTEN APPROVAL, THE SAMPLING POINTS SHALL BE REMOVED AND PLUGGED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE THE PERMANENT CONNECTION IN THE PRESENCE OF A PSLUSD INSPECTOR. THE PIPE AND FITTINGS FOR CONNECTION SHALL BE DISINFECTED BY SPRAYING AND SWABING WITH CHLORINE.
 - THE JUMPER ASSEMBLY (FLANGE TO FLANGE) WILL BE REMOVED BY THE PSLUSD IN COORDINATION WITH THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE THE REST OF THE JUMPER CONNECTION PIPING AND PLUG THE CORPORATION STOP VALVES.

	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	TEMPORARY JUMPER CONNECTION	DETAIL: G-14 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 2
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- NOTES:**
- A TEMPORARY JUMPER CONNECTION SHALL BE PROVIDED IN ACCORDANCE WITH THIS DETAIL WHEN AN EXISTING PSLUSD WATER MAIN WILL BE USED FOR FILLING, FLUSHING OR PIGGING A NEWLY CONSTRUCTED POTABLE WATER, WASTEWATER FORCE MAIN OR RECLAIMED WATER MAIN. A DIRECT CONNECTION SHALL NOT BE MADE UNDER ANY CIRCUMSTANCES. THE SIZE OF THE JUMPER CONNECTION SHALL BE SPECIFIED BY THE ENGINEER-OF-RECORD (EOR) BASED ON VELOCITY REQUIRED TO FLUSH THE MAIN.
 - THE CONTRACTOR SHALL CONTACT THE PSLUSD REGARDING SCHEDULING OF REQUIRED INSPECTIONS RELATING TO THE CONNECTION. PSLUSD INSPECTIONS ARE SPECIFICALLY REQUIRED FOR TIE-INS OR WET TAPS TO EXISTING MAINS, JUMPER INSTALLATION, FLUSHING, PIGGING, PRESSURE TESTING, DISINFECTION, SAMPLING, PLUGGING OF SAMPLING POINTS AND PERMANENT CONNECTION OF THE NEW MAIN. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES STRICTLY IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS MANUAL.
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	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	TEMPORARY JUMPER CONNECTION	DETAIL: G-14 DATE: 2019 SCALE: N.T.S. SHEET: 2 OF 2
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	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	3" TEMPORARY JUMPER CONNECTION	DETAIL: G-14 DATE: 2019 SCALE: N.T.S. SHEET: 2 OF 2
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COMPUTER FILE REF.	FIELD BK./PG.

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- REVISIONS -		BY	DATE

DESIGNED	BY	DATE

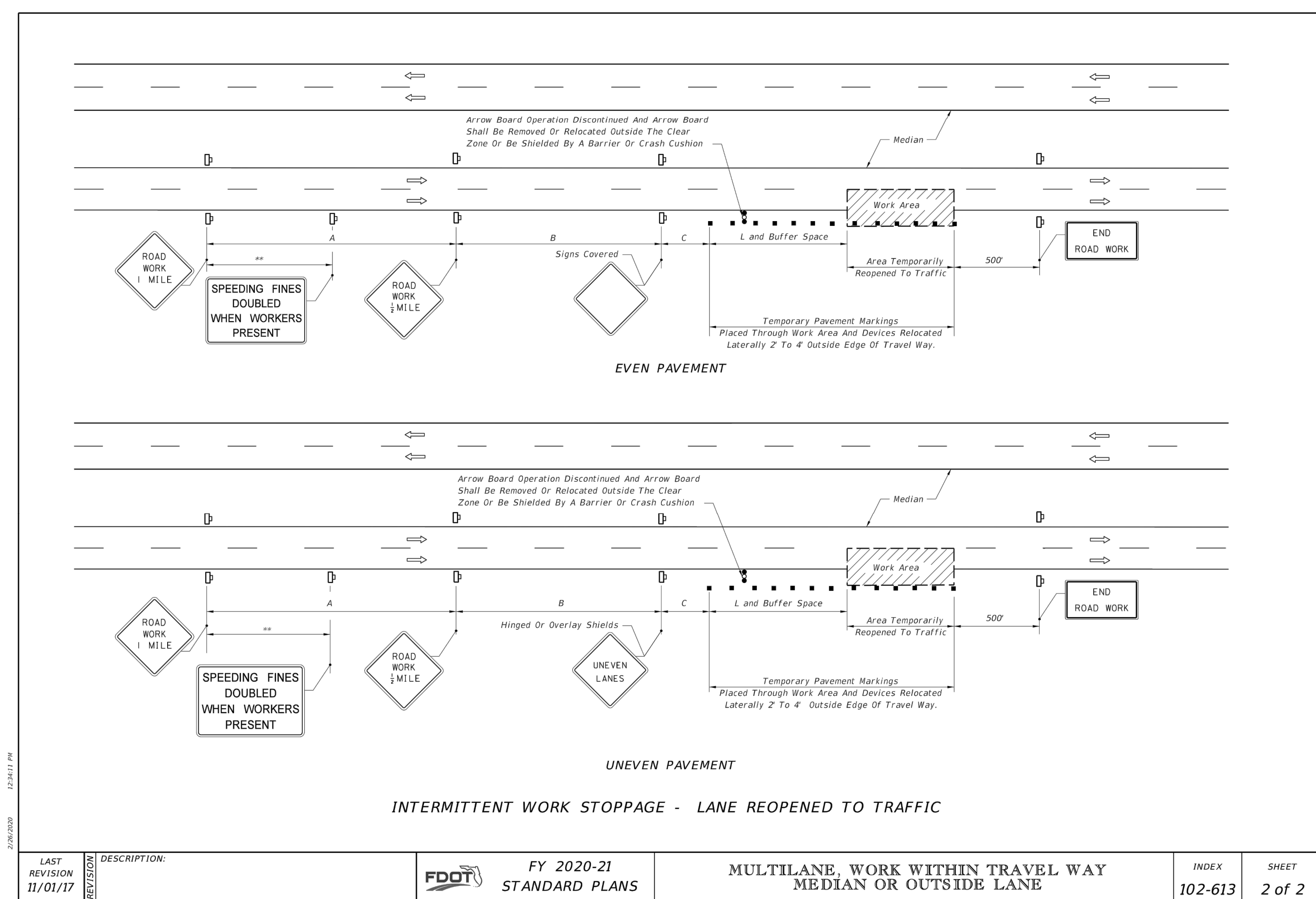
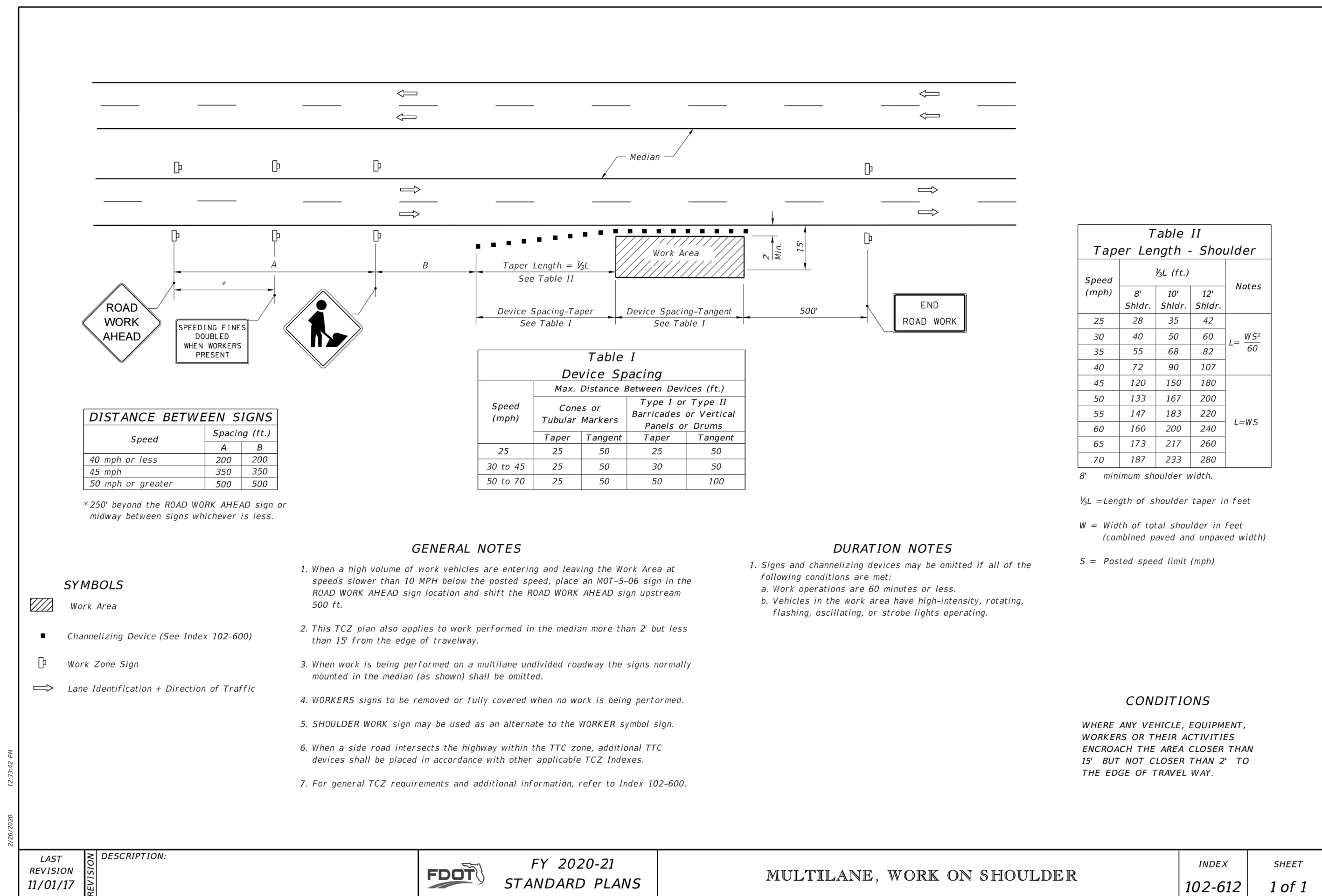
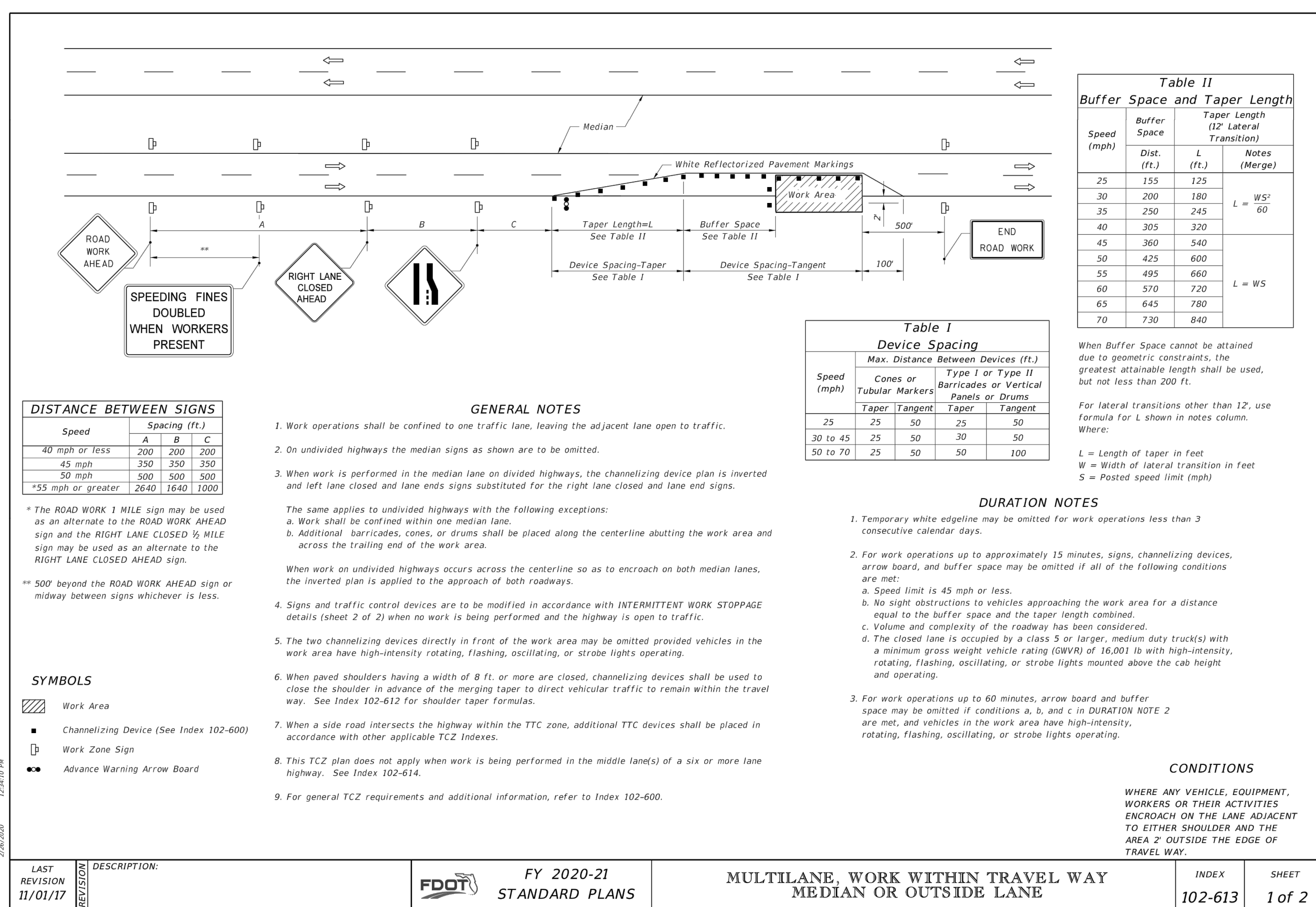
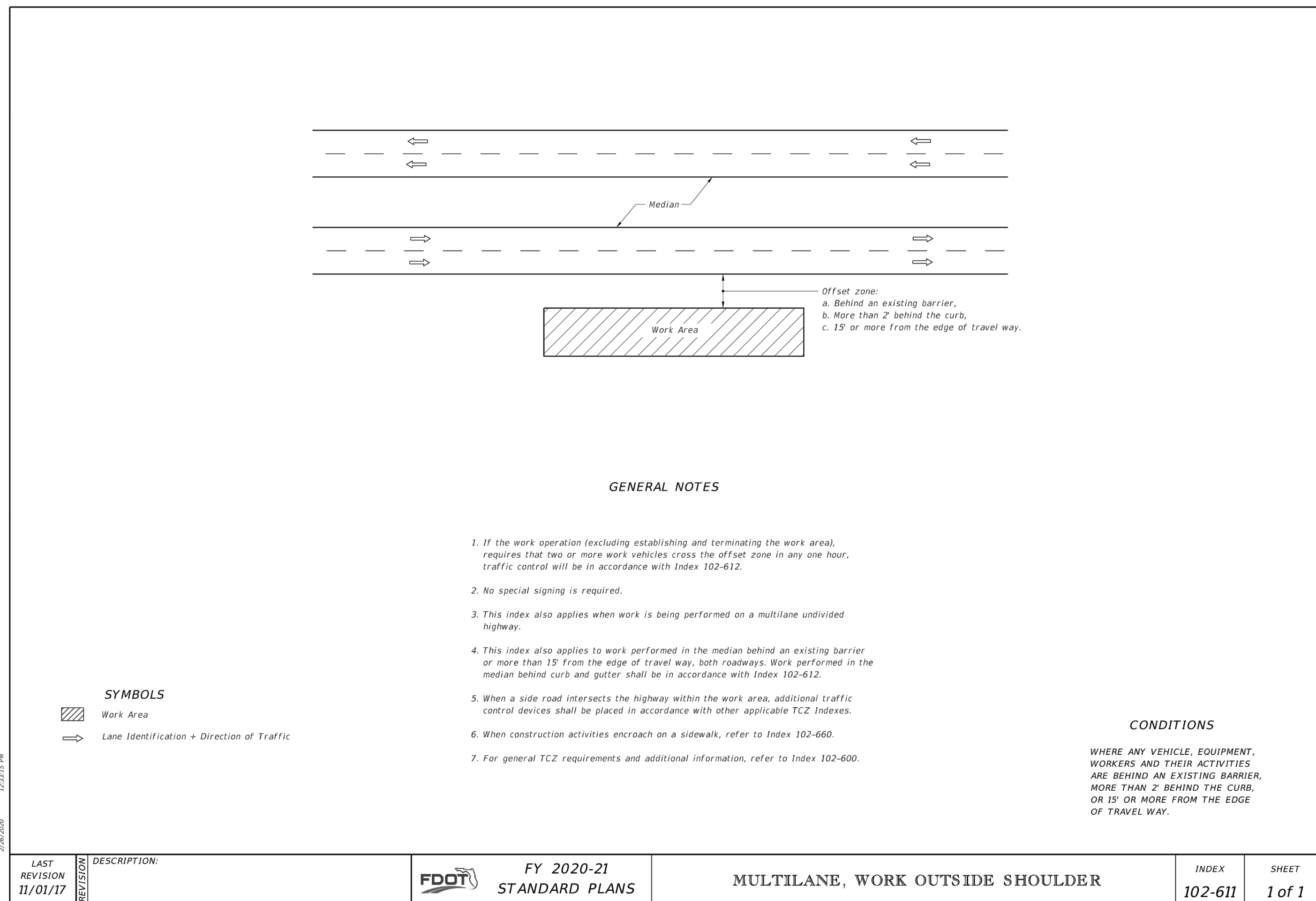
VERANDA FALLS ROADWAY PLAN

UTILITY DETAILS

DATE: 10/15/2021
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB No. 20-237
SHEET 10 of 12

P:\Proj\2020\20-237\100_Veranda Falls Townhome_Eng\20-237 COVER -NOTES.dwg Plotted: 10/15/2021 6:42 PM By: DONNIE PINKERTON

PSLUSD PROJECT NO. 11-824-13
 CITY OF PSL PROJECT NO. P21-140
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723



LAST REVISION 11/01/17	DESCRIPTION:	FY 2020-21 STANDARD PLANS	MULTILANE, WORK OUTSIDE SHOULDER	INDEX 102-611	SHEET 1 of 1
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LAST REVISION 11/01/17	DESCRIPTION:	FY 2020-21 STANDARD PLANS	MULTILANE, WORK ON SHOULDER	INDEX 102-612	SHEET 1 of 1
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LAST REVISION 11/01/17	DESCRIPTION:	FY 2020-21 STANDARD PLANS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX 102-613	SHEET 1 of 2
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LAST REVISION 11/01/17	DESCRIPTION:	FY 2020-21 STANDARD PLANS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX 102-613	SHEET 2 of 2
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PSLUSD PROJECT NO. 11-824-13
CITY OF PSL PROJECT NO. P21-140
STEFAN K. MATTHEWS, P.E.
FL. REG. NO. 38723



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REVISIONS	BY	DATE

DESIGNED	BY	DATE

VERANDA FALLS ROADWAY PLAN
TEMPORARY TRAFFIC CONTROL DETAILS

DATE: 10/15/2021
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB No. 20-237
SHEET 12 of 12