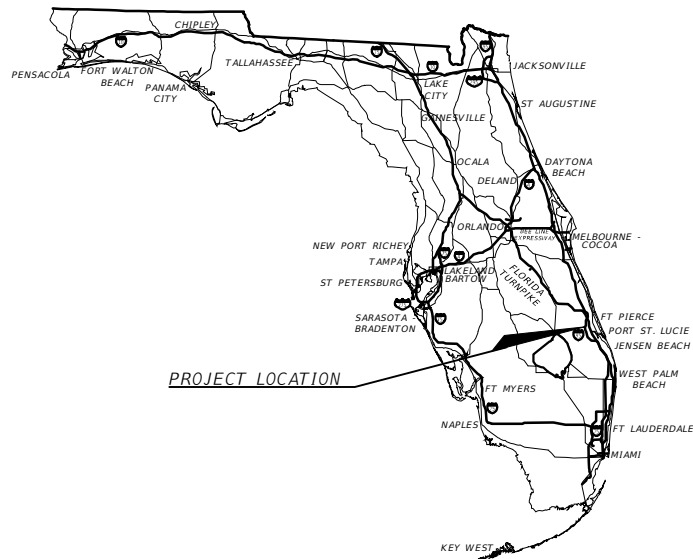


SHEET INDEX

- 1 KEY SHEET
- 3 SUMMARY OF PAY ITEMS
- 2 GENERAL NOTES
- 4-5 EROSION AND SEDIMENT CONTROL
- 6 PROJECT LAYOUT
- 7 TYPICAL SECTION
- 8 - 9 DRAINAGE MAP
- 10 - 17 PLAN SHEETS
- 18 - 21 PROFILE SHEETS
- 22 - 34 CROSS SECTIONS
- 35 SECTIONS VOLUMES
- 36 DETAILS
- 37 PAVEMENT MARKING AND SIGNAGE
- 38 OVERALL UTILITY
- 39 - 45 UTILITY ADJUSTMENT
- 46 - 47 UTILITY DETAILS

LOCATION MAP
NTS
PORT ST. LUCIE, FLORIDA



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CONSTRUCTION PLANS AND DETAILS

CROSSTOWN PARKWAY EXTENSION

SEGMENT 2A PHASE 2 WEST OF VILLAGE PARKWAY

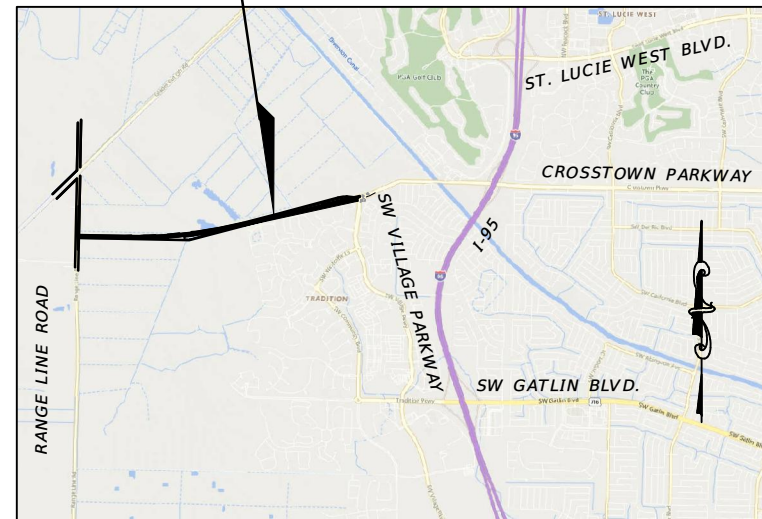
PREPARED FOR
VERANO DEVELOPMENT, LLC

CONSULTANTS

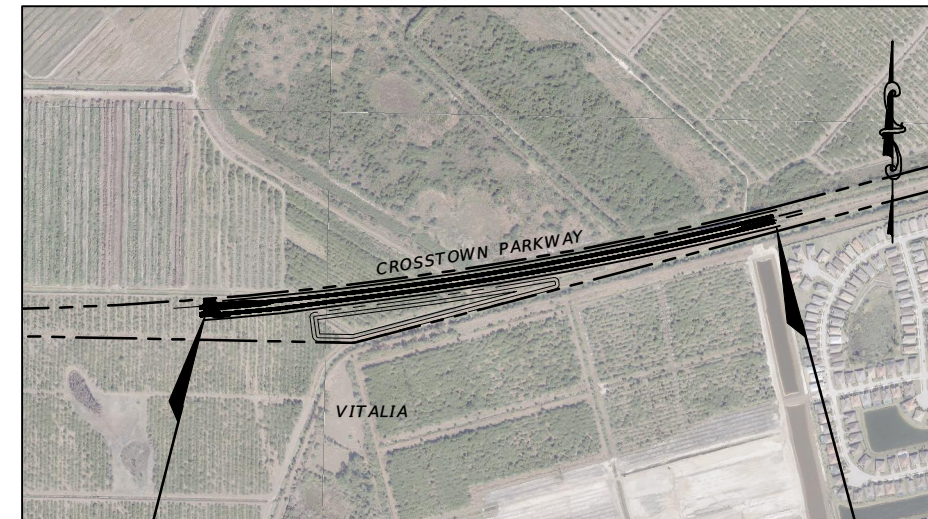
CIVIL ENGINEER
PLANS PREPARED BY:
MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FL 34990
CERT OF AUTH: CA29013
SHAUN G. MACKENZIE, P.E.
PROFESSIONAL ENGINEER #61751
(772) 286-8030

SURVEYOR
GEOPOINT SURVEYING
4152 W BLUE HERON BLVD STE 105,
RIVIERA BEACH, FL 33404
GARY A. RAGER
(561) 444-2720

PROJECT LOCATION



VICINITY



SEGMENT 2A
PHASE 2

BEGIN PROJECT
STA: 145+91.03

END PROJECT
STA: 183+37.8

THESE PLANS HAVE BEEN PREPARED IN GENERAL ACCORDANCE WITH AND GOVERNED BY STANDARDS AND SPECIFICATIONS OF THE CITY OF PORT ST. LUCIE PUBLIC WORKS DEPARTMENT.

GOVERNING SPECIFICATIONS:
CITY OF PORT ST. LUCIE PUBLIC WORKS DEPARTMENT ENGINEERING STANDARDS FOR LAND DEVELOPMENT (MOST CURRENT EDITION), AS AMENDED BY CONTRACT DOCUMENTS.

UTILITIES SHALL BE INSTALLED PER PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT 2019 STANDARDS MANUAL.

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

THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

- PLANS REFERENCE THE FOLLOWING:
- VERANO SOUTH POD E CONSTRUCTION PLANS PREPARED BY THOMAS ENGINEERING GROUP.
 - VERANO SOUTH POD G CONSTRUCTION PLANS PREPARED BY THOMAS ENGINEERING GROUP.
 - VERANO SOUTH MASTER DRAINAGE PLAN PREPARED BY THOMAS ENGINEERING GROUP.
 - CROSSTOWN PARKWAY ULTIMATE TYPICAL SECTIONS DEVELOPED BY MACKENZIE ENGINEERING & PLANNING, INC.

2-1-23

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984	<h2 style="font-size: 2em; margin: 0;">KEY SHEET</h2>	SHEET NO. 1
ST. LUCIE COUNTY	ROAD NO. CROSSTOWN PARKWAY SEGMENT 2A PH. 2		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAY ITEMS

Item	Description	Quantity	Unit
101-1	MOBILIZATION	1	LS
102-1	MAINTENANCE OF TRAFFIC	1	LS
104	NPDES COMPLIANCE (EROSION CONTROL)	1	LS
104-12	STAKED SILT FENCE	9,504	LF
110-1-1	CLEARING & GRUBBING	13.1	AC
120-1	REGULAR EXCAVATION	86,559	CY
120-6	EMBANKMENT	29,277	CY
160-4	TYPE B STABILIZATION	18,498	SY
285-709	OPTIONAL BASE, BASE GROUP 09	17,658	SY
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,850	TN
337-7-83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5	925	TN
425-1-551	INLETS, DT BOT, TYPE E, <10'	15	EA
425-1-553	INLETS, DT BOT, TYPE E, J BOT <10'	7	EA
425-1-554	INLETS, DT BOT, TYPE E, J BOT >10'	4	EA
425-11	MANHOLES, P-7, <10', MODIFY	1	EA
430-175-118	PIPE CULVERT, HPPP, ROUND, 18"	1,176	LF
430-175-124	PIPE CULVERT, HPPP, ROUND, 24"	300	LF
430-175-130	PIPE CULVERT, HPPP, ROUND, 30"	300	LF
430-175-136	PIPE CULVERT, HPPP, ROUND, 36"	1,185	LF
430-175-136	PIPE CULVERT, CAP, ROUND, 36"	154	LF
430-175-142	PIPE CULVERT, HPPP, ROUND, 42"	634	LF
430-175-148	PIPE CULVERT, HPPP, ROUND, 48"	1,111	LF
430-175-148	PIPE CULVERT, CAP, ROUND, 48"	154	LF
440-000	EDGEDRAIN	7,300	LF
440-000	EDGEDRAIN OUTFALL	26	AS
520-1-10	CONCRETE CURB & GUTTER, TYPE F	7,342	LF
520-2-10	CONCRETE CURB, HEADER	91	LF
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	6,586	SY
523-3	GREEN PATTERNED PAVEMENT (BIKE LANE)	159	SY
570-1-2	PERFORMANCE TURF, SOD	30,800	SY
700-1-11	(R01-01) STOP	3	AS
700-1-11	(W01-06L) ONE DIRECTION ARROW	1	AS
700-1-11	(W01-07) TWO WAY DIRECTION ARROW	1	AS
700-1-11	(OM4-1) RED REFLECTORS TYPE IV	7	AS
700-1-11	(OM1-1) YELLOW REFLECTORS TYPE I	7	AS
700-1-11	(R02-01) SPEED LIMIT SIGN (45 MPH) (24" X 30")	2	AS
700-1-11	(R4-7) KEEP RIGHT MEDIAN SIGN (24" X 30")	3	AS
700-1-60	SINGLE POST SIGN, REMOVE	7	AS
706-1-3	REFLECTIVE PAVEMENT MARKERS	93	EA
711-11-125	THERMOPLASTIC WHITE 24" SOLID LINE	58	LF
711-11-141	THERMOPLASTIC WHITE SKIP 6" (2-4')	0.10	GM
711-11-170	THERMOPLASTIC WHITE REGULAR ARROWS (THRU, TURN, BIKE)	12	EA
711-15-101	THERMOPLASTIC WHITE 6" SOLID LINE	2.9	GM
711-15-201	THERMOPLASTIC YELLOW 6" SOLID LINE	1.40	GM

PAY ITEMS NOTES:

- 102-1 INCLUDES ALL ITEMS FOR MAINTENANCE OF TRAFFIC WHICH ARE NOT INCLUDED FOR PAYMENT UNDER SEPARATE ITEMS. INCLUDES PEDESTRIAN MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. INCLUDES TEMPORARY PAVEMENT MARKINGS & SIGNAGE, AND RAISED PAVEMENT MARKERS. INCLUDES MAINTENANCE AND RELOCATION OF MAILBOXES.
- 102-11.3 PAY ITEM INCLUDES CONSTRUCTING, MAINTAINING, AND REMOVING DETOUR FACILITIES, TRAFFIC CONTROL DEVICES, WARNING DEVICES, BARRIERS, SIGNING, PAVEMENT MARKING AND 281 TONS OF TEMPORARY ASPHALT.
- 102-1 CONTRACTOR SHALL PROVIDE TEMPORARY DRIVEWAYS MAINTENANCE IN ACCORDANCE WITH FDOT SPECIFICATIONS 102-11.4. PAYMENT SHALL BE MADE ON CUBIC YARD OF MATERIAL USED. INCLUDES COST TO MAINTAIN EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FROM NOTICE TO PROCEED UNTIL FINAL ACCEPTANCE FOR ALL AREAS EFFECTING ROADWAY CONSTRUCTION.
- 104 IS ESTIMATED FOR PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AND ARE TO BE USED AT LOCATIONS DESIGNATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 104-12 INCLUDES SILT FENCE TYPE III.
- 110-1-1 INCLUDES REMOVAL AND DISPOSAL OF EXISTING DRAINAGE STRUCTURES PIPES; CULVERTS; SIGNS; FENCE; CURBS; CURB AND GUTTER; DRIVEWAYS; SLABS; FOOTINGS; GATES; POLES; DEBRIS; TRAFFIC

SEPARATOR; SIDEWALKS; ASPHALT; BASE; CONCRETE; GUARDRAIL; F.D.P.'S; TEMPORARY CONSTRUCTION DETOURS; AND ANY OTHER ITEMS TO BE REMOVED THAT ARE NOT SPECIFICALLY COVERED UNDER TREE REMOVAL AND TRIMMING FROM WITH 5' OF THE WORK ZONE. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE NOTED. THIS ITEM INCLUDES DESILTING OF ALL EXISTING AND PROPOSED DRAINAGE CULVERTS WITHIN THE PROJECT LIMITS.

120-6 INCLUDES ALL EARTHWORK EMBANKMENT FOR ROADWAY, DRIVEWAY, CULVERT STRUCTURE, & INCLUDES FINAL GRADING SHAPING AS NECESSARY FOR FINAL RESTORATION.

440-000 NON FDOT PAY ITEM. CONTRACTOR TO VERIFY MATERIALS AND INSTALLATION METHODS OF EDGE DRAIN WITH MANUFACTURER AND CITY OF PSL. PRIOR TO INSTALLATION.

SUMMARY OF PAY ITEMS UTILITY

Item	Description	Quantity	Unit
630-2-11	CONDUIT, OPEN TRENCH, F&I	3,970	LF
635-2-11	PULL BOX (F&I) (17" X 30")	3	EA
635-2-12	PULL & SPLICE BOX (F&I) (24" X 36")	2	EA
1050-31-206	6" PVC WM	334	LF
1050-31-212	12" PVC WM	5	LF
1050-31-216	16" PVC WM	3,726	LF
1055-31-116	BENDS	1	EA
1055-31-216	16" X 6" TEE	5	EA
1055-31-616	WYE	1	EA
1055-51-316	16" X 12" REDUCER	1	EA
1080-21-116	METER/TEMP JUMP/BFP	1	AS
1080-23-116	16" X 12" TS&V	1	EA
1080-24-106	6" GATE VALVE	10	EA
1080-24-116	16" GATE VALVE	6	EA
1080-32-102	SAMPLE POINTS	5	AS
1644-116-08	FIRE HYDRANT ASSEMBLY	5	AS

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>8-29-22</td> <td>REVISED PER CITY OF PSL</td> <td></td> <td></td> </tr> </tbody> </table>		DATE	DESCRIPTION	DATE	DESCRIPTION	8-29-22	REVISED PER CITY OF PSL			<p>MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751</p>	<p>CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984</p> <table border="1"> <tr> <td>COUNTY</td> <td>ROAD NO.</td> </tr> <tr> <td>ST. LUCIE COUNTY</td> <td>CROSSTOWN PARKWAY SEGMENT 2A PH. 2</td> </tr> </table>	COUNTY	ROAD NO.	ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2	<p>SUMMARY - PAY ITEMS</p>	<p>SHEET NO. 2</p>
DATE	DESCRIPTION	DATE	DESCRIPTION														
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GENERAL NOTES

1. ALL ELEVATIONS, EXISTING AND PROPOSED, ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), DESIGN MANUAL (FDOT), "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS", LATEST EDITION, SHALL APPLY TO THE DESIGN AND CONSTRUCTION OF FACILITIES SHOWN ON THIS SET OF PLANS, UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE; FHWA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, SHALL APPLY TO THE DESIGN AND CONSTRUCTION OF ALL PAVEMENT MARKINGS, SIGNS, REFLECTIVE MARKERS, SIGNALS, TRAFFIC CONTROL DEVICES, UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE; CITY OF PORT ST. LUCIE ENGINEERING STANDARDS FOR LAND DEVELOPMENT, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
3. ALL WORK, CONCRETE AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION, INCLUDING ALL REVISIONS, OF THE FOLLOWING STANDARDS AND PUBLICATIONS:
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO);
 - AMERICAN CONCRETE INSTITUTE (ACI);
 - AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM);
4. TWO COPIES OF SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITTED TO THE ENGINEER OF RECORD. ALLOW 30 DAYS TURN AROUND FOR SUBMITTALS. ALL SUBMITTALS SHOULD BE SENT TO:

MACKENZIE ENGINEERING AND PLANNING INC.
1172 SW 30TH STREET, SUITE 500, PALM CITY, FL 34990
5. AT THE TIME OF THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL FURNISH TWO (2) COMPLETE SETS OF AS-BUILT PLANS, CAD (.DWG) DRAWINGS, AND A COPY OF SHOP DRAWINGS TO THE FOLLOWING:

CITY OF PORT ST. LUCIE, PUBLIC WORKS
121 SW PORT ST LUCIE BLVD BUILDING B, PORT ST. LUCIE, FL 34984

MACKENZIE ENGINEERING AND PLANNING INC.
1172 SW 30TH STREET, SUITE 500, PALM CITY, FL 34990
6. ALL FIELD STAKING REQUIRED FOR CONSTRUCTION SHALL BE PERFORMED BY A LICENSED FLORIDA SURVEYOR.
7. ANY PUBLIC LAND CORNER OR BENCH MARK 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 PROJECT ENGINEER SHOULD NOTIFY THE CITY SURVEYOR, WITHOUT DELAY BY TELEPHONE.
8. ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
9. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND ALL EXISTING UTILITIES, INCLUDING OVERHEAD POWER LINES. THE CONTRACTOR SHALL EXCAVATE BY HAND WHERE CONFLICTS MAY EXIST.
10. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THESE STANDARDS OR THE PROGRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED AREA.
11. SUBSURFACE UTILITIES SHOWN ON THE DRAWINGS SHALL BE CONSIDERED APPROXIMATE ONLY. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
12. CONTACT SUNSHINE ONE CALL OF FLORIDA AT 811 OR SUNSHINE811.COM AT LEAST TWO (2) FULL BUSINESS DAYS BEFORE DIGGING. FLORIDA 'SUNSHINE ONE' LOCATES PROCEDURES SHALL BE FOLLOWED AT ALL TIMES. (NOTE: IF THERE IS A TRAFFIC MONITORING SITE ON THE PROJECT OR WITHIN 1 MILE OF THE CONSTRUCTION, THE TRANSPORTATION STATISTICS OFFICE IN TALLAHASSEE SHALL BE ADDED TO THE LIST OF UTILITY OWNERS.
13. UNLESS OTHERWISE SHOWN, ALL EXISTING DRAINAGE STRUCTURES, TREES AND UTILITY POLES WITHIN LIMITS OF CONSTRUCTION ARE TO REMAIN.
14. PRIOR TO REMOVAL OF EXISTING PAVEMENT OR CONCRETE, SAW CUTS AT THE INTERFACES MUST BE MADE TO REDUCE THE RISK OF DAMAGE TO THE REMAINING SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PAVEMENT OR CONCRETE SURFACES. ALL DAMAGED AREAS MUST BE REPAIRED TO EXISTING CONDITIONS OR BETTER, AT THE COST OF THE CONTRACTOR, PRIOR TO FINAL PAYMENT.
15. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING OR BETTER CONDITIONS. THE CONTRACTOR SHALL ONLY BE ENTITLED FOR PAYMENT OF AUTHORIZED AREAS WITHIN THE PROJECT WORK LIMITS. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE UNNECESSARY DAMAGE. ALL DAMAGED AREAS OUTSIDE THE PROJECT WORK LIMITS MUST BE REPAIRED TO EXISTING CONDITIONS OR BETTER, AT THE COST OF THE CONTRACTOR, PRIOR TO FINAL PAYMENT. CONTRACTOR SHALL ALSO TAKE CARE TO AVOID SPRINKLER HEADS AND IRRIGATION LINES, UNLESS AFOREMENTIONED CANNOT BE AVOIDED IN WHICH CASE IRRIGATION LINES WILL BE RELOCATED TO COVER ALL GRASSED AREAS. THIS COST IS INCIDENTAL TO THE CLEARING AND GRUBBING COST.

16. THE CONTRACTOR SHALL MATCH EXISTING GRADES, CONSTRUCT A SMOOTH TRANSITION FROM EXISTING FACILITIES TO PROPOSED, AND MATCH EXISTING SOD TYPE FOR ALL DISTURBED SOD AREAS UNLESS OTHERWISE DIRECTED. THE SOD STRIPS SHALL BE LAID IN A STAGGERED PATTERN WITH SNUG EVEN JOINTS. ALL JOINTS SHALL BE BUTTED TIGHT TO PREVENT VOIDS. COST OF WATER AND FERTILIZER TO BE INCLUDED IN COST OF SOD.
17. THE CONTRACTOR SHALL OBTAIN A NPDES PERMIT PRIOR TO COMMENCING CONSTRUCTION AND PROVIDE THE ENGINEER AN EROSION AND SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION IN ACCORDANCE WITH FDOT EROSION AND SEDIMENT CONTROL MANUAL.
18. THE CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE REGULATORY AUTHORITIES. THESE BMP'S SHALL INCLUDE, BUT ARE NOT LIMITED TO: SILT FENCE AND ANY OTHER MEANS NECESSARY TO PREVENT SEDIMENT DISCHARGE FROM THE DISTURBED AREAS.
19. ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT THE 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 ENGINEER AND/OR THE REGULATORY AUTHORITY.
20. 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 ENGINEER. THE CONTRACTOR SHALL PROVIDE 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. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
21. THE CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE ALL WORK WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL NOT ENCROACH ONTO PRIVATE PROPERTY WITHOUT EASEMENTS NECESSARY FOR COMPLETION OF THE WORK.
22. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEMS SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
23. THE CONTRACTOR MUST OBTAIN A WATER USE PERMIT PRIOR TO CONSTRUCTION DEWATERING UNLESS THE WORK QUALIFIES FOR A PERMIT PURSUANT TO SUBSECTION 40E-20.061, F.A.C.
24. CONTRACTOR TO VERIFY ALL EXISTING TIE-IN ELEVATIONS PRIOR TO FABRICATION/SHOP DRAWINGS OF PROPOSED STRUCTURES.
25. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
26. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAS THE ENGINEER OF RECORD BEEN RETAINED FOR SUCH PURPOSES.

CONSTRUCTION NOTES

27. A MANDATORY PRE-CONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY SITE ACTIVITY.
28. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR TO PLACE HIS OWN INTERPRETATION ON ANY AND ALL SOIL AND SUBSOIL DATA, IF ANY, PORTRAYED ON THE DRAWINGS; PERFORM HIS OWN SOIL AND SUBSOIL INVESTIGATION TO DETERMINE THE NATURE, CHARACTER, LOCATION AND EXTENT OF ALL SOIL AND SUBSOIL CONDITIONS THAT MAY AFFECT HIS WORK; AND INCLUDE IN HIS CONTRACT PRICE CONSIDERATIONS FOR ALL WORK NECESSARY TO ASSURE THAT THE SOIL AND SUBSOIL CONDITIONS WILL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND THE APPLICABLE REGULATIONS.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH THEIR GEOTECHNICAL FIRM TO PROVIDE CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. LAB TEST NEED TO HAVE A SEVEN DAY LEAD TIME NOTIFICATION TO THEIR GEOTECHNICAL FIRM. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS, STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS. DENSITY TESTS SHALL BE PERFORMED AT THREE (3) LOCATIONS AROUND ANY STRUCTURE. BEGIN TESTING IN THE FIRST FOOT ABOVE THE BOTTOM OF THE STRUCTURE AND THEN EACH LIFT (12" MAX) TO WITHIN ONE FOOT OF THE FINISH GRADE.
30. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIAL FOUND SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL AND REPLACED WITH THE SPECIFIED FILL MATERIAL IN MAXIMUM 12 INCH LIFTS COMPACTED TO NOT LESS THAN 100% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-99. THICKNESS OF LAYERS MAY BE INCREASED, PROVIDED THAT THE EQUIPMENT AND METHODS USED ARE PROVEN BY FIELD DENSITY TESTING AND CAPABLE OF COMPACTING THICK LAYERS TO SPECIFIED DENSITIES.
31. ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON, OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF ONE (1) FOOT.
32. ITEMS DESIGNATED TO REMAIN, TO BE RELOCATED, OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL.

33. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI.
34. EXCAVATION, BACKFILL, COMPACTION, AND TESTING SHALL BE IN ACCORDANCE WITH SECTION 125 OF THE FDOT STANDARD SPECIFICATIONS.
35. ALL DETECTABLE WARNING SURFACES SHALL BE INSTALLED FOLLOWING THE MANUFACTURERS' INSTRUCTIONS FOR INSTALLATION. THE CONTRACTOR SHALL OBTAIN MANUFACTURERS' INSTALLATION CERTIFICATION AND PROVIDE THE CITY OF PORT ST. LUCIE WITH A COPY OF THE CERTIFICATION PRIOR TO INSTALLATION. ALL DETECTABLE WARNING SURFACES WILL BE INSPECTED BY THE CITY OF PORT ST. LUCIE TO INSURE PROPER INSTALLATION IS ACHIEVED.
36. THE MAINTENANCE OF TRAFFIC PLAN (MOT) SHALL BE IN ACCORDANCE WITH THE APPLICABLE FDOT STANDARD PLANS INDEX (102) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAYS (MUTCD). IF THE STANDARD INDEX TYPICALS DO NOT APPLY TO THE MOT REQUIREMENTS OF THIS PROJECT, THE CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED MOT FOR THE ENGINEER'S APPROVAL PRIOR TO THE WORK BEING PERFORMED.
37. PIPE CULVERTS SHALL BE IN ACCORDANCE WITH SECTION 430 OF THE FDOT SPECIFICATIONS.
38. PRECAST CONCRETE DRAINAGE PRODUCTS SHALL BE IN ACCORDANCE WITH SECTION 449 OF THE FDOT SPECIFICATIONS.
39. ALL SIDEWALK CONSTRUCTION AND PLACEMENT OF JOINTS, INCLUDING THOSE AT INTERFACES WITH EXISTING ASPHALT AND/OR CONCRETE, SHALL BE PERFORMED IN ACCORDANCE WITH FDOT STANDARD PLAN INDEX 522 AND FDOT STANDARD SPECIFICATION SECTION 522. SIDEWALKS SHALL BE TOOLED WITHOUT EXPANSION JOINTS.
40. ALL ADA DETECTABLE WARNING SURFACES ON NEW CONCRETE SURFACES SHALL BE BRICK COLORED RED CAST IN PLACE. REFER TO FDOT STANDARD PLANS INDEX (522) FOR ADDITIONAL REQUIREMENTS.
41. RIPRAP DITCH LINING SHALL BE IN ACCORDANCE WITH SECTION 530 OF THE FDOT SPECIFICATIONS.
42. PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 711.
43. ALL DRAINAGE PIPE JOINTS, INCLUDING ROUND CONCRETE PIPES, SHALL HAVE A FILTER FABRIC JACKET IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS. ALL JOINTS SHALL BE WRAPPED FOR A MINIMUM OF 12 INCHES FROM THE BAND OR JOINT OR BELL AND SPIGOT AS APPLICABLE. COST SHALL BE INCLUDED IN PAY ITEMS FOR PIPE.
44. VALVES ARE TO BE INSTALLED OUTSIDE OF THE SIDEWALK EXTENTS WHEREVER POSSIBLE AND MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILITY DEPARTMENT CONSTRUCTION STANDARDS.
45. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY COORDINATION PRIOR TO AND DURING THE CONSTRUCTION OF THE PROJECT. PRIOR TO BEGINNING CONSTRUCTION OPERATIONS WHICH MAY AFFECT EXISTING UTILITIES, A UTILITY COORDINATION MEETING IS TO BE HELD TO COORDINATE AND RESOLVE POTENTIAL UTILITY CONFLICTS AND TO COORDINATE SCHEDULES FOR NECESSARY RELOCATIONS OR ADJUSTMENTS. THE CONTRACTOR WILL BE REQUIRED TO ADJUST HIS CONSTRUCTION SCHEDULE OR OPERATIONS TO ALLOW THE UTILITY OWNERS TO ADJUST/RELOCATE THEIR FACILITIES. THE COST FOR UTILITY COORDINATION IS INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

**48 HOURS BEFORE DIGGING CALL SUNSHINE STATE ONE CALL CENTER.
TOLL FREE 1-(800)432-4770**

UTILITY COMPANIES

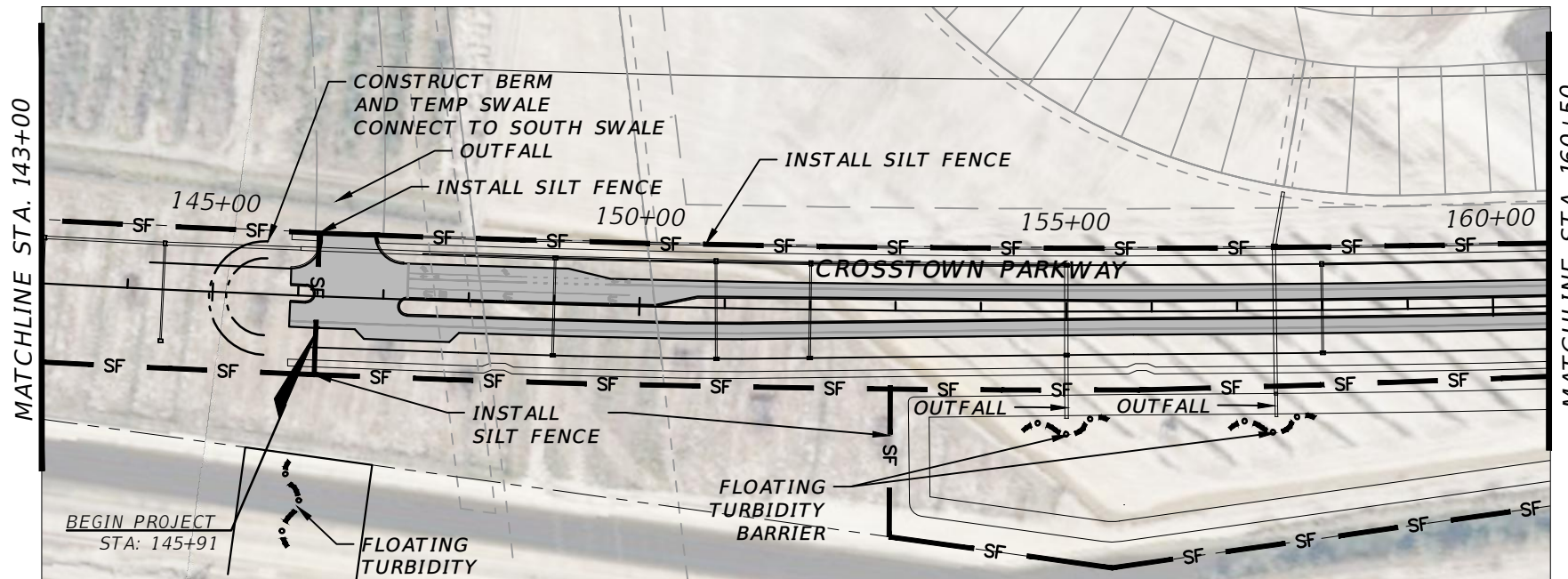
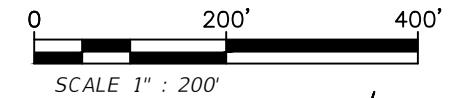
CITY GAS COMPANY OF FLORIDA 321-638-3419 HOLLY COOMBS	CITY OF PORT ST LUCIE TRAFFIC 772-871-5182 PAUL JOHNSON
FLORIDA POWER & LIGHT 386-586-6403 JOEL BRAY	CITY OF PORT ST LUCIE UTILITIES 772-873-6400
BLUESTREAM FIBER 772-528-2932 TERRY DAY	TRAD CDDI, IRRIGATION SYSTEMS 772-345-5119 JOHN GALLAGHER
AT & T/ DISTRIBUTION 561-683-2729 DINO FARRUGGIO	

IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH THESE NOTES AND THE UTILITY STANDARDS MANUAL, THE MORE STRINGENT REQUIREMENT APPLIES.

**CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F**

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.	
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2	GENERAL NOTES	

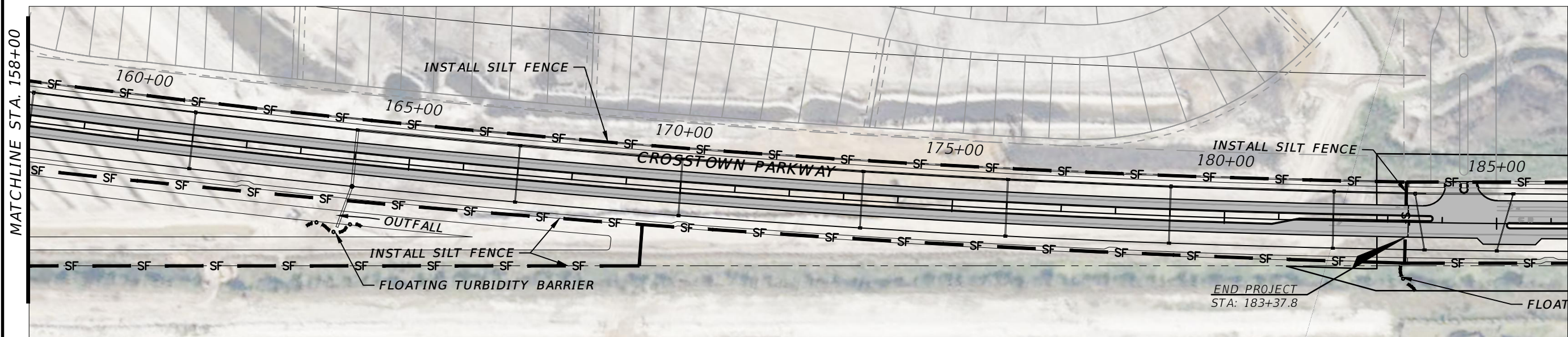
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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 in accordance with City Code, Section 41.08 (g).

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

ENVIRONMENTAL ASSESSMENT HAS BEEN ADDRESSED UNDER THE OVERALL VERANO DRI. THEREFORE, NO ADDITIONAL ENVIRONMENTAL REPORT IS REQUIRED.



CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

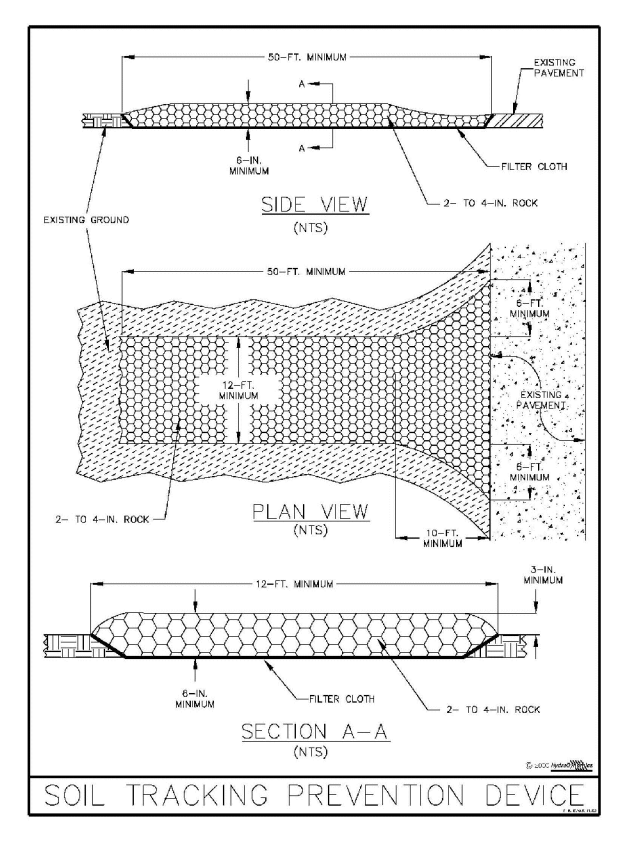
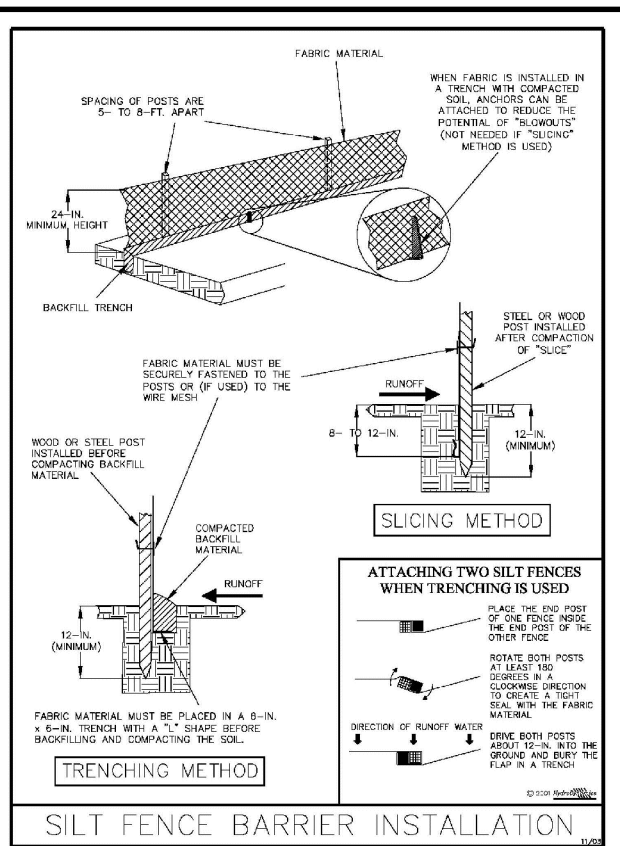
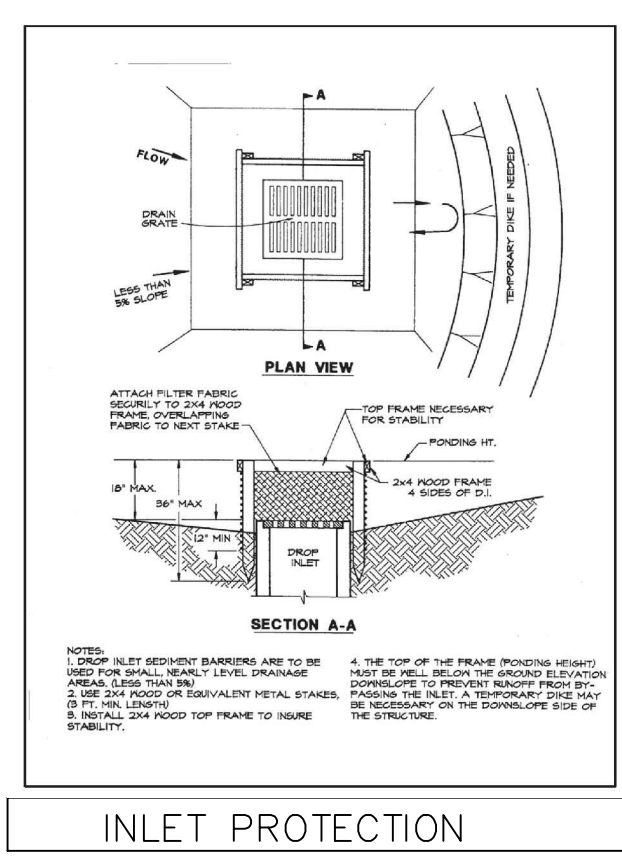
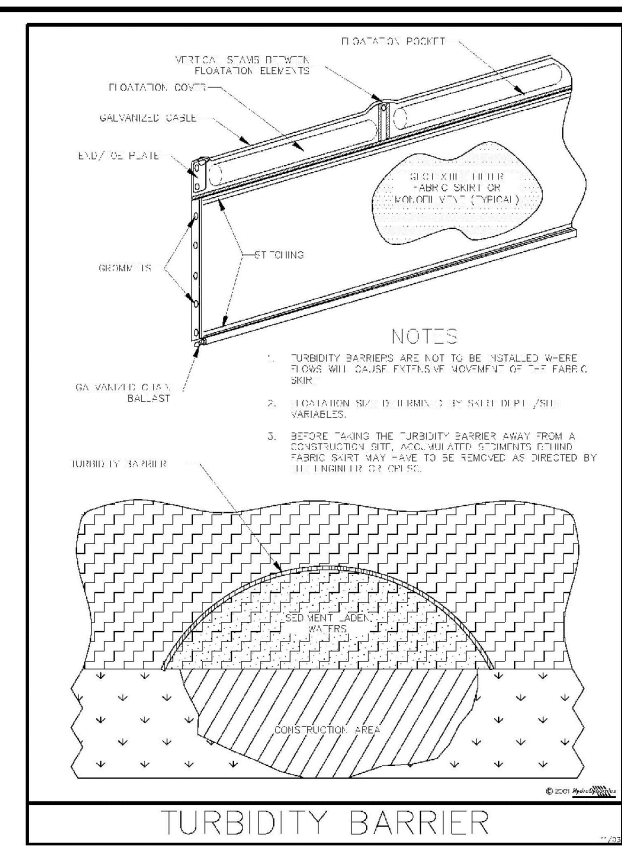
CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984	
COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

**EROSION AND SEDIMENT
CONTROL PLAN**

SHEET
NO.
4

1	Project Name and location information:	CROSTOWN PARKWAY EXTENSION COMMENCING AT VILLAGE PARKWAY TO THE EAST, TERMINATING AT RANGLINE ROAD TO THE WEST, PEACOCK CANAL TO THE SOUTH, AND VERANO DRI TO THE NORTH. THE PROJECT WILL BE DIVIDED INTO THREE SEGMENTS
2	Describe the nature of the construction activity:	ROADWAY CONSTRUCTION WITH SWALES, CROSS DRAINS, AND EDGE DRAINS
3	Describe the intended sequence of major soil disturbing activities:	<ol style="list-style-type: none"> 1. PLACEMENT OF ALL EROSION CONTROL DEVICES. 2. SITE GRADING AND FILL MATERIAL PLACEMENT. 3. CONSTRUCT ROADWAY EXTENSION AND STORMWATER SYSTEM. 4. SOD/RESTORE ALL WORK AREAS. 5. REMOVAL OF EROSION CONTROL DEVICES.
4	Total area of the site:	PI: ± 19.7 AC, PII: ± 13.1 AC, PIII: ± 15.8 AC
5	Total area of the site to be disturbed:	PI: ± 5.7 AC, PII: ± 4.4 AC, PIII: ± 6.8 AC
6	Existing data describing the soil or quality of any stormwater discharge from the site:	THE SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORT BY UNIVERSAL ENGINEERING SCIENCES INDICATES THAT THE SURFICIAL SOIL IS PINEDA SAND, 0-2% SLOPES AND WINDER SAND 0-1% SLOPES
7	Estimate the drainage area size for each discharge point:	0.58 ACRES (DBI TYPE 'E' INLET)
8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	C-24 CANAL, ST. LUCIE RIVER
9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments.	<p>THE FOLLOWING DEFINES GENERAL QUANTITIES FOR THE SEQUENCE OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP. THE CONSTRUCTION OF THIS PROJECT IS EXPECTED TO LAST SIX MONTHS.</p> <p>INSTALL STABILIZED CONSTRUCTION ENTRANCE AT ALL COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXISTING THE CONSTRUCTION SITE.</p> <p>INSTALL SILT FENCE, TYPE III, AROUND PERIMETER OF PROPOSED IMPROVEMENTS AND TURBIDITY BARRIER WHERE CONCRETE ENDWALLS ARE BEING CONSTRUCTED</p>
10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.	<p>TEMPORARY: SOD IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 104.</p> <p>PERMANENT: ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CHANGED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.</p>
11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.	<p>TEMPORARY: SILT FENCE PER DETAIL STAKED TURBIDITY BARRIER PER DETAIL SOIL TRACKING PREVENTION DEVICE PER DETAIL. A STABILIZED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PER DETAIL. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL.</p>
12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.	
13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.	

14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	ALL CONSTRUCTION MATERIALS AND DEBRIS WILL BE PLACED IN A DUMPSTER AND HAULED OFF SITE TO A LANDFILL OR OTHER PROPER DISPOSAL SITE. NO MATERIALS WILL BE BURIED ON SITE.		
15	Offsite vehicle tracking from construction entrances/exits:	OFF SITE VEHICLE TRACKING OF SEDIMENTS AND DUST GENERATION WILL BE MINIMIZED VIA A ROCK CONSTRUCTION ENTRANCE, STREET SWEEPING AND THE USE OF WATER TO KEEP DUST DOWN.		
16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	FLORIDA-FRIENDLY FERTILIZERS AND PESTICIDES WILL BE USED AT A MINIMUM AND IN ACCORDANCE WITH THE MANUFACTURER'S SUGGESTED APPLICATION RATES AND THE APPLICABLE CITY OF PSL ORDINANCE.		
17	The storage, application, generation and migration of all toxic substances:	ALL PAINTS AND OTHER CHEMICALS WILL BE STORED IN A LOCKED COVERED SHED.		
18	Other:	PORT-O-LETS WILL BE PLACED AWAY FROM STORM SEWER SYSTEMS, STORM INLET(S), SURFACE WATERS AND WETLANDS. NO VEHICLE MAINTENANCE SHALL BE CONDUCTED ON-SITE. A WASHDOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL NOT BE LOCATED IN ANY AREA THAT WILL ALLOW FOR THE DISCHARGE OF POLLUTED RUNOFF.		
19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.	<p>CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY SEDIMENT AND EROSION CONTROL FEATURES IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS OR AS FOLLOWS, WHICHEVER IS MORE STRINGENT:</p> <ul style="list-style-type: none"> • SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. • MAINTENANCE SHALL BE PERFORMED ON THE ROCK ENTRANCE WHEN ANY VOID SPACES ARE FULL OF SEDIMENT. • INLET(S)/OUTFALLS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIRS TO THE FILTER INLETS, SILT FENCE, OR FILTER FABRIC SHALL BE PERFORMED IMMEDIATELY. • BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED SHALL BE RESEED PER MANUFACTURER'S INSTRUCTIONS. • MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY. • MAINTAIN ALL OTHER AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY. 		
20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	<p>QUALIFIED PERSONNEL WILL INSPECT ALL POINTS OF DISCHARGES, ALL DISTURBED AREAS OF CONSTRUCTION THAT HAVE NOT BEEN STABILIZED, CONSTRUCTED AREAS AND LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE, AND ALL BMPs AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER. WHERE SITES HAVE BEEN FINALLY STABILIZED, SAID INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH UNTIL THE NOTICE OF TERMINATION IS FILED.</p>		
21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	<p>THE CONTRACTOR IS REQUIRED TO SUBMIT A DEWATERING PLAN TO SFWMD FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES THAT REQUIRE DEWATERING. THIS PLAN SHALL INCLUDE ANY STOCKPILE AREAS AND EXCAVATION AREA. SEE SFWMD RULE 4D D2 CONSUMPTION USE OF WATER, RULE 4D D-3 REGULATION WELLS SPECIFYING REQUIREMENTS FOR DEWATERING AND ERP APPLICATION SECTION E, SUBSECTION D CONSTRUCTION SCHEDULE AND TECHNIQUES.</p> <p>THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP. IF CONTAMINATED SOIL OF GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR.</p>		
22	All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:	<p>"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."</p>		
23	Name	Title	Company Name, Address and Phone Number	Date



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

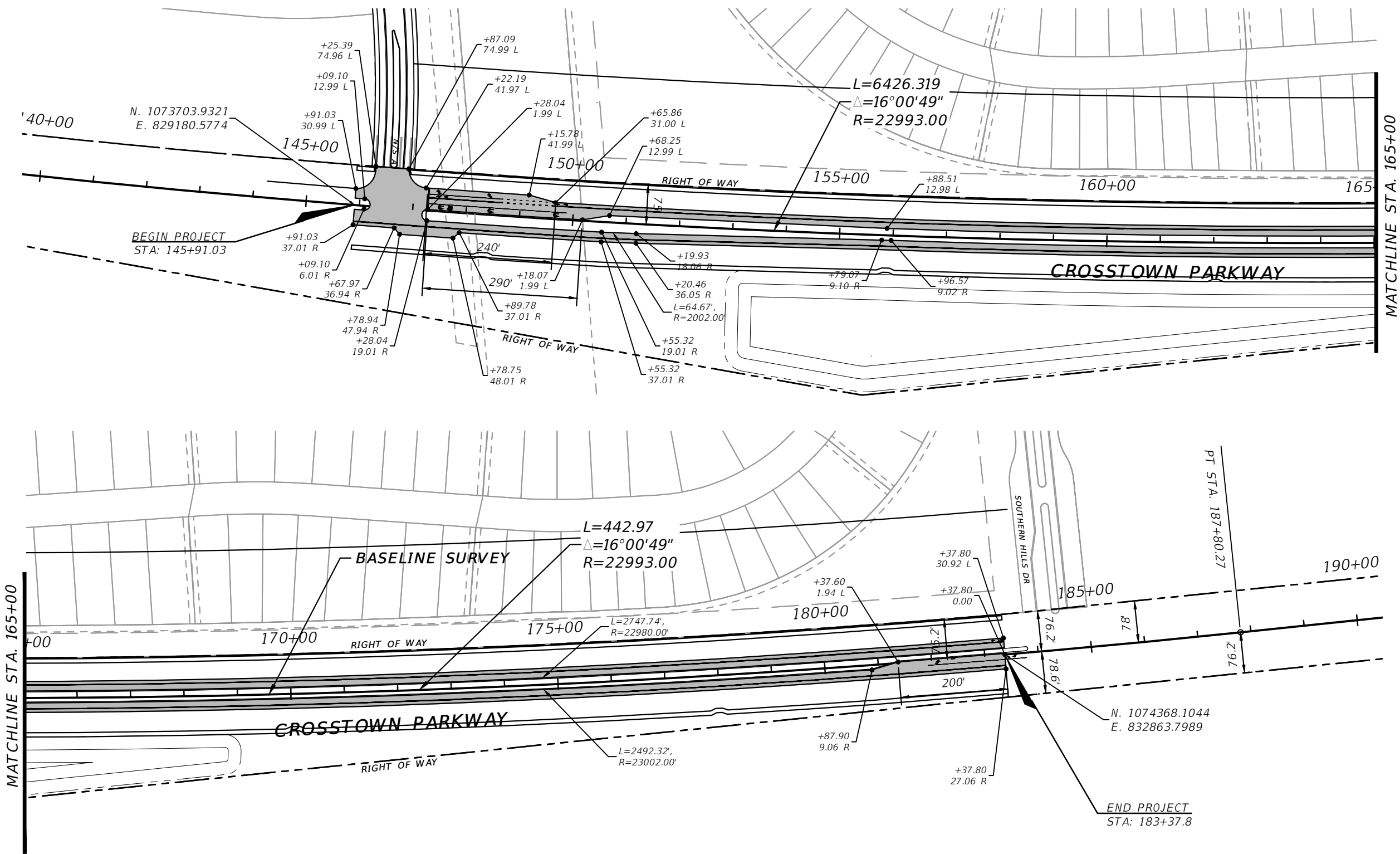
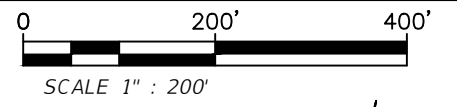
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSTOWN PARKWAY
SEGMENT 2A PH. 2

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

SHEET NO. 5

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CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

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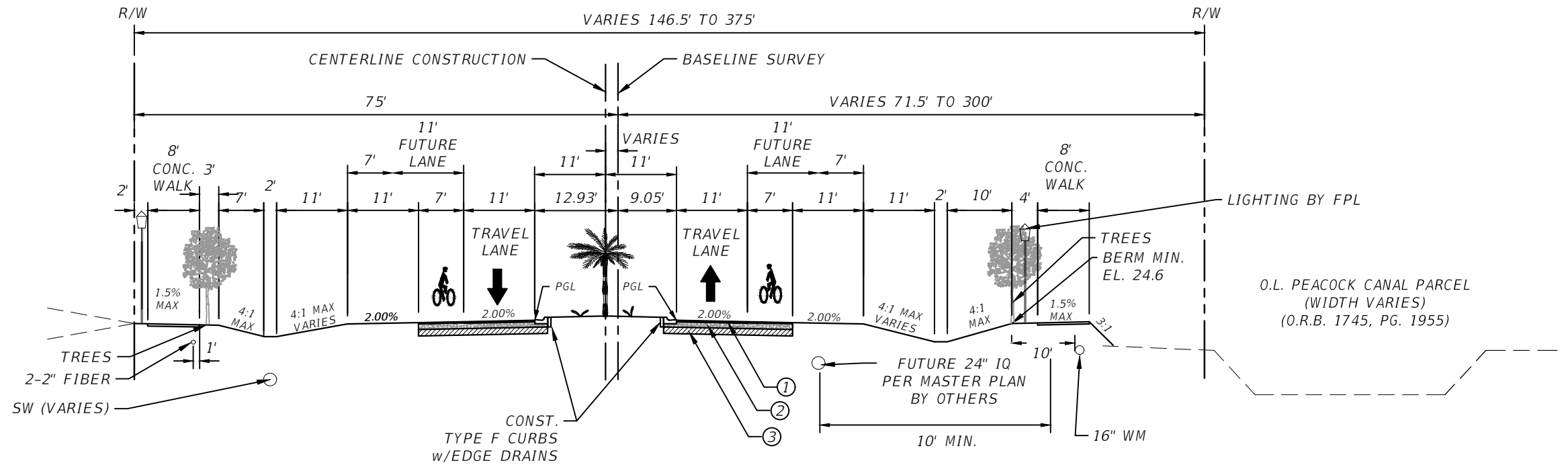
CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984	
COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

PROJECT LAYOUT

SHEET NO.
6

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PROPOSED CROSTOWN PARKWAY EXTENSION
FORMERLY WEST VIRGINIA
(O.R.B. 2186, PG. 548)



STA: 145+91.03 TO STA: 183+37.80

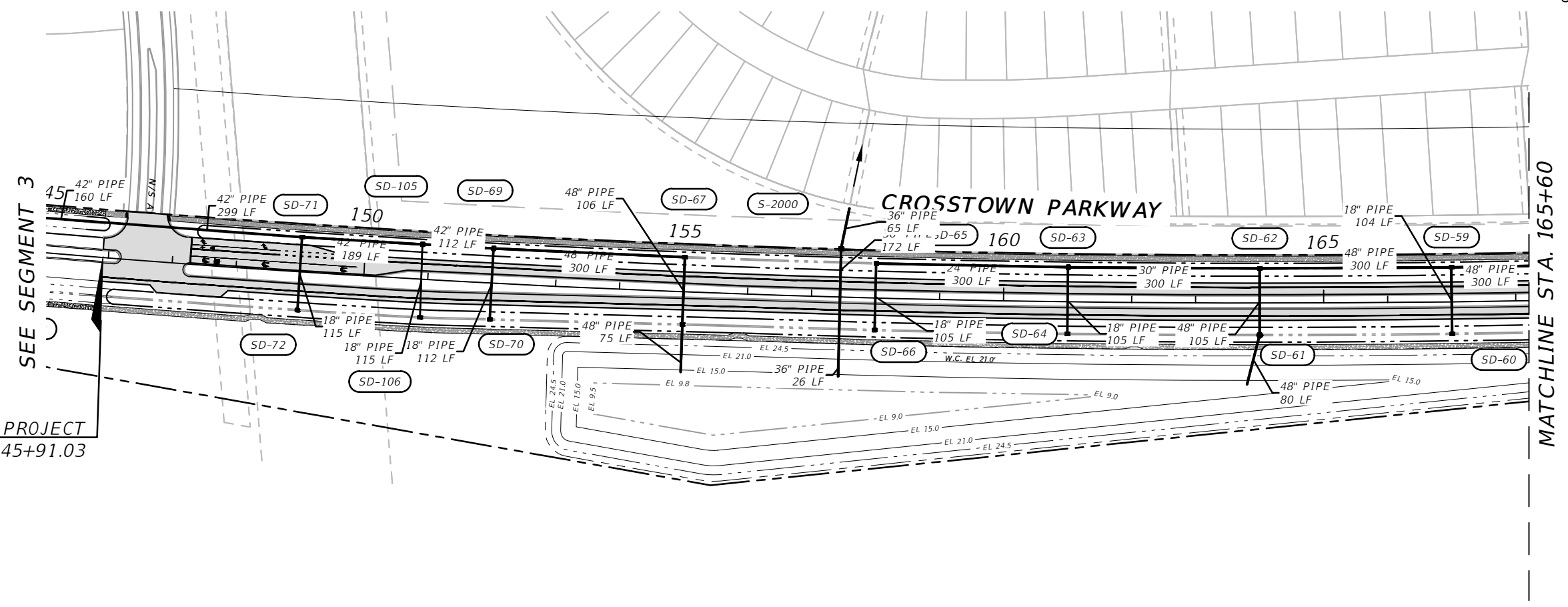
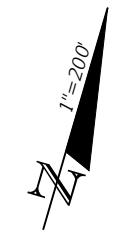
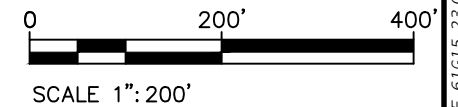
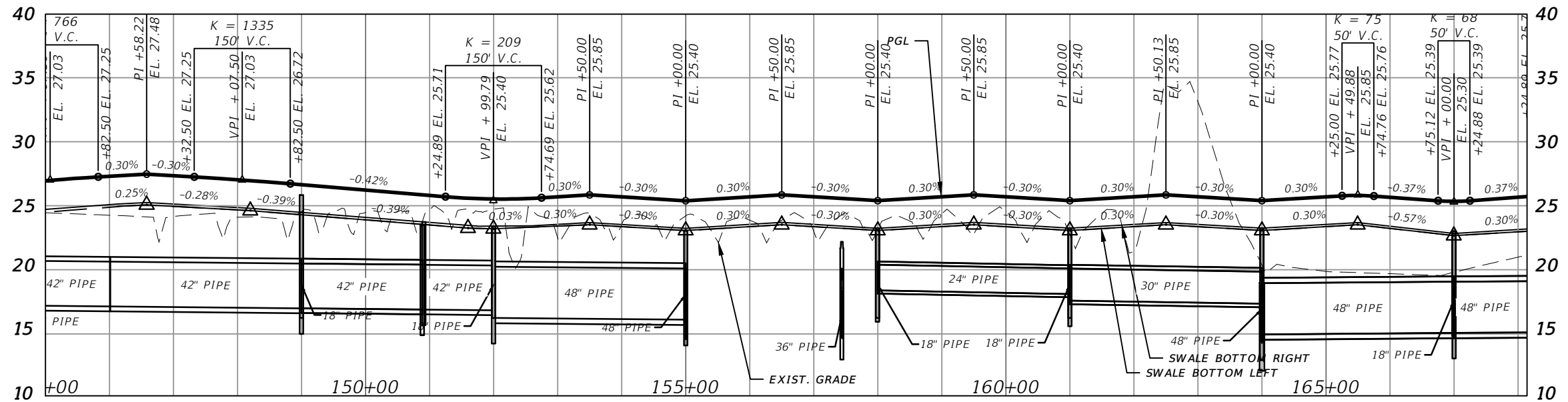
**TYPICAL SECTION
CROSTOWN PARKWAY
SEGMENT 2A PH. 2**

- ① 1" TYPE SP-9.5 LEVEL C ASPHALT
2" TYPE SP-12.5 LEVEL C ASPHALT
- ② 10" OPTIONAL BASE GROUP 9 (MIN. LBR 100)
- ③ 12" TYPE 'B' STABILIZATION (MIN. LBR 40)
STRUCTURAL NUMBER = 4.08

DESIGN SPEED = 50 MPH
POSTED SPEED = 45 MPH

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.	
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2	TYPICAL SECTION	



BEGIN PROJECT
STA: STA: 145+91.03

MATCHLINE STA. 165+60

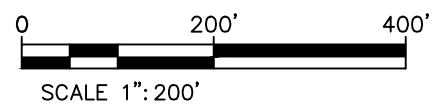
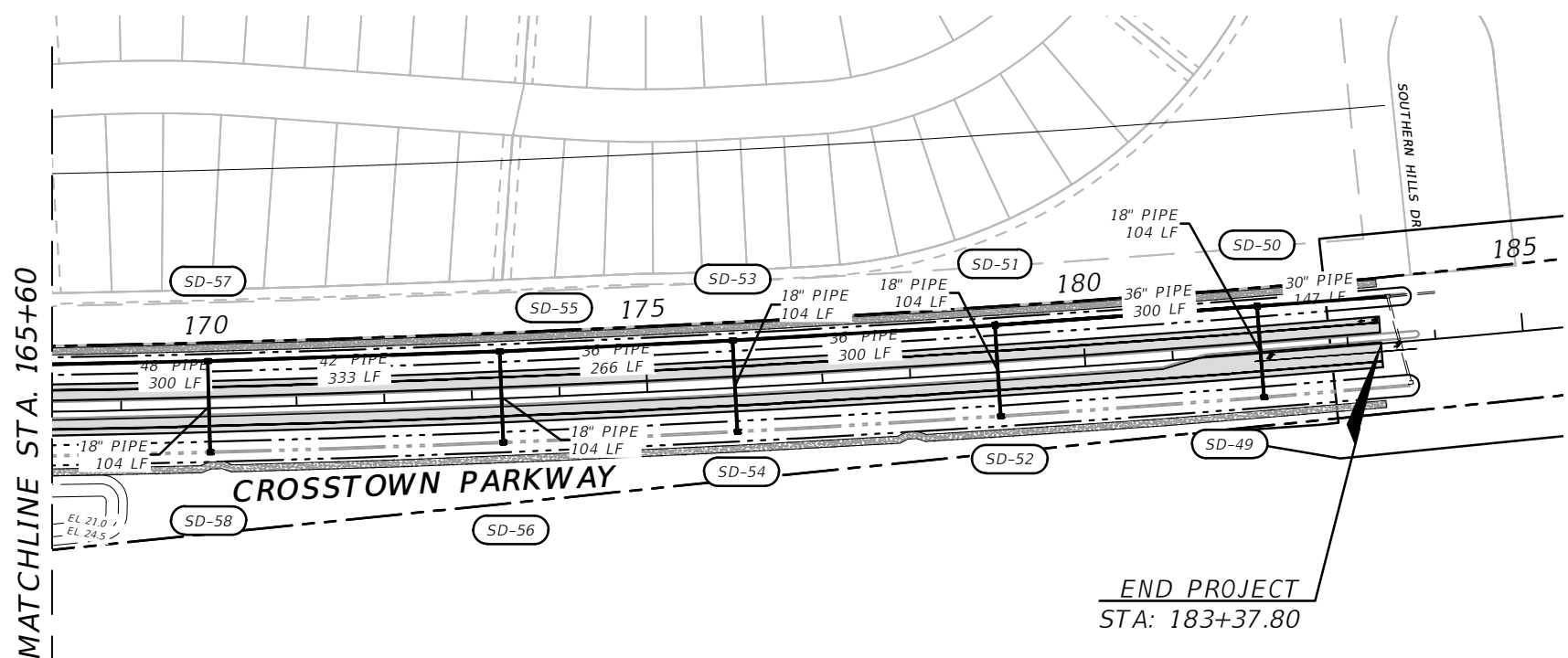
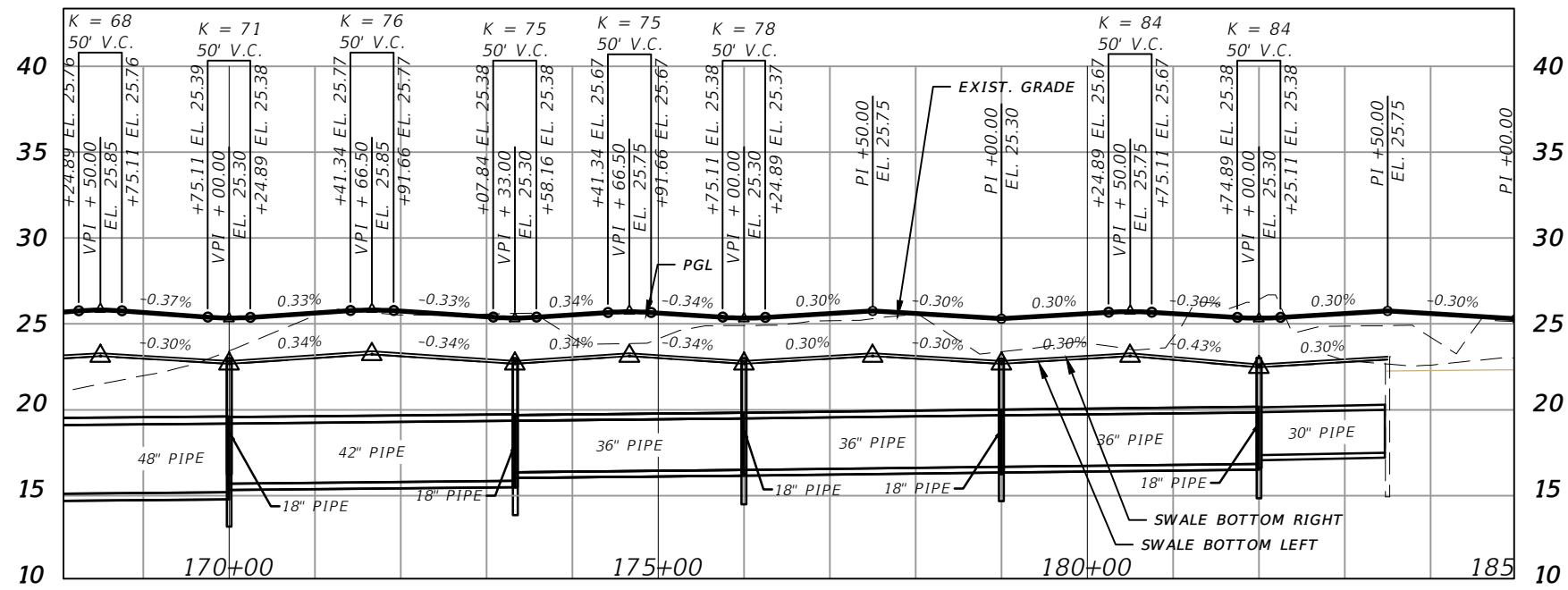
ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984	COUNTY ST. LUCIE COUNTY	ROAD NO. CROSSTOWN PARKWAY SEGMENT 2A PH. 2	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION					
8-29-22	REVISED PER CITY OF PSL							

DRAINAGE MAP

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ELEVATION DATUM
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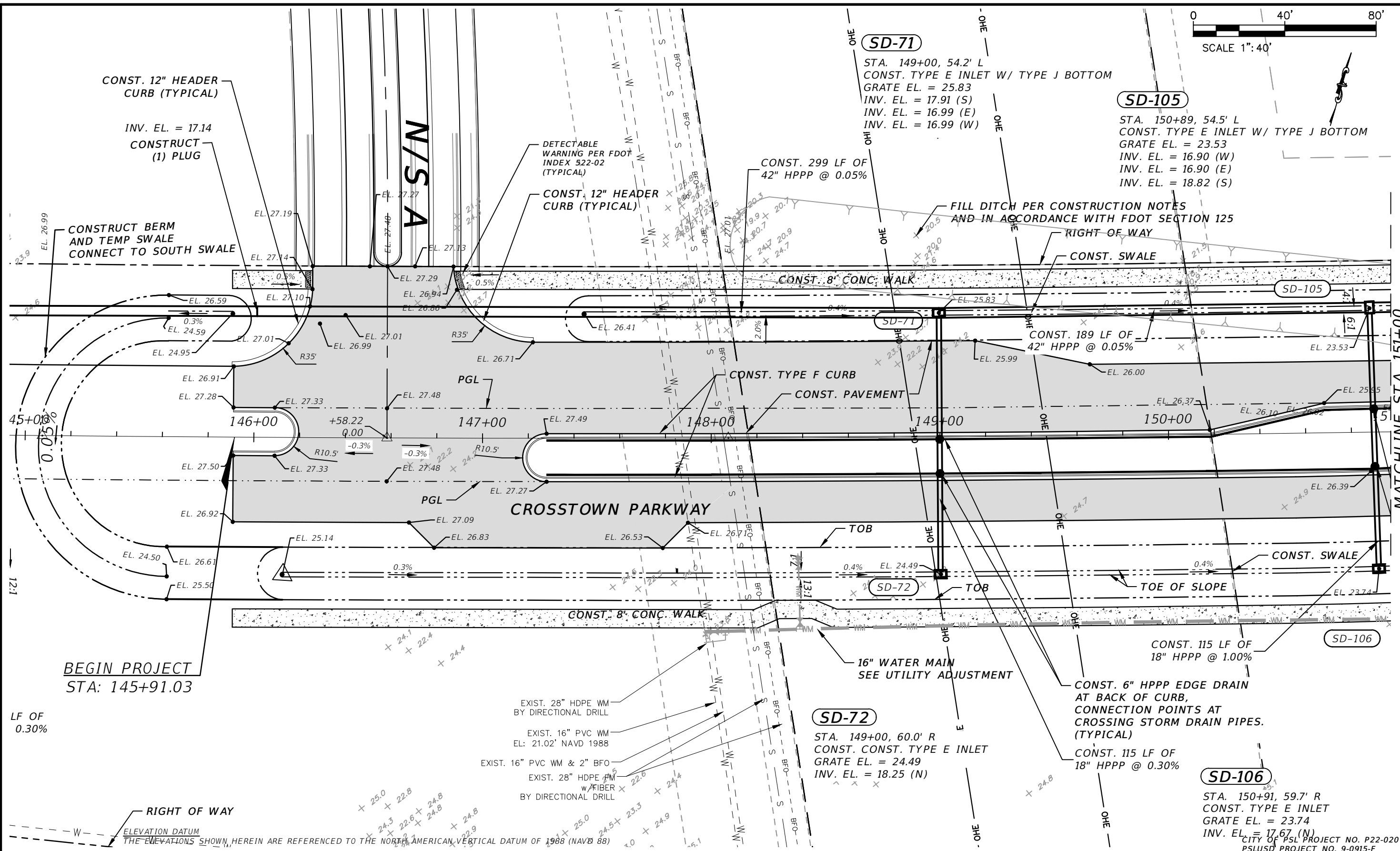
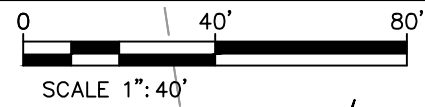
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

DRAINAGE MAP

SHEET NO.
9

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MATCHLINE STA. 151+00

BEGIN PROJECT
STA: 145+91.03

CONST. 12" HEADER
CURB (TYPICAL)
INV. EL. = 17.14
CONSTRUCT
(1) PLUG

SD-71
STA. 149+00, 54.2' L
CONST. TYPE E INLET W/ TYPE J BOTTOM
GRATE EL. = 25.83
INV. EL. = 17.91 (S)
INV. EL. = 16.99 (E)
INV. EL. = 16.99 (W)

SD-105
STA. 150+89, 54.5' L
CONST. TYPE E INLET W/ TYPE J BOTTOM
GRATE EL. = 23.53
INV. EL. = 16.90 (W)
INV. EL. = 16.90 (E)
INV. EL. = 18.82 (S)

SD-72
STA. 149+00, 60.0' R
CONST. TYPE E INLET
GRATE EL. = 24.49
INV. EL. = 18.25 (N)

SD-106
STA. 150+91, 59.7' R
CONST. TYPE E INLET
GRATE EL. = 23.74
INV. EL. = 17.67 (N)
CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

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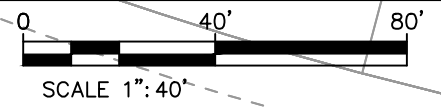
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

PLAN

SHEET
NO.
10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SD-69

STA. 152+00, 54.2' L
 CONST. TYPE E INLET W/ TYPE J BOTTOM
 GRATE EL. = 23.20
 INV. EL. = 17.92 (S)
 INV. EL. = 16.84 (W)
 INV. EL. = 16.25 (E)

SD-67

STA. 155+00, 54.1' L
 CONST. TYPE E INLET W/ TYPE J BOTTOM
 GRATE EL. = 23.07
 INV. EL. = 16.10 (W)
 INV. EL. = 16.10 (S)

SD-70

STA. 152+00, 56.8' R
 CONST. TYPE E INLET
 GRATE EL. = 23.41
 INV. EL. = 18.25 (N)

SD-68

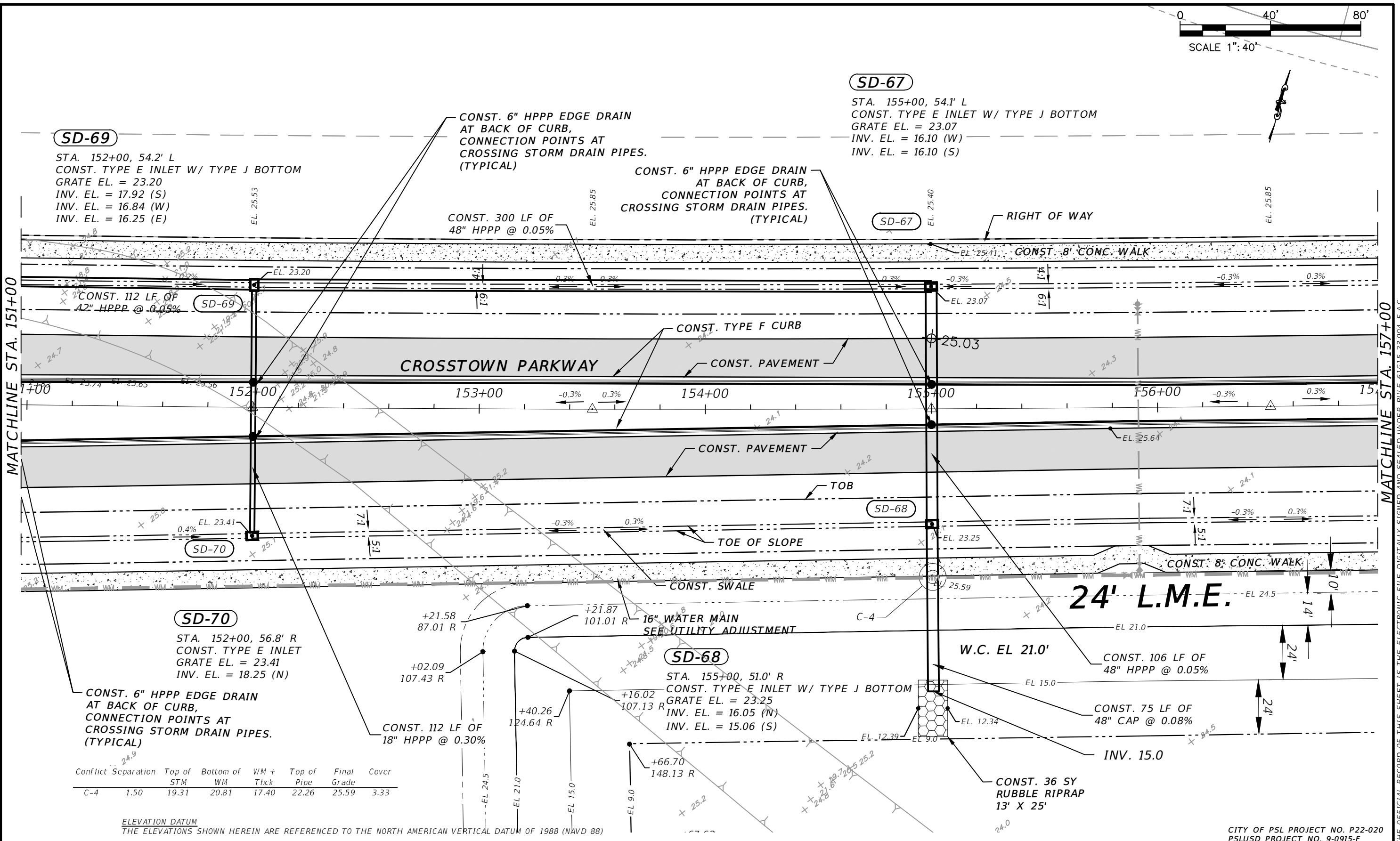
STA. 155+00, 51.0' R
 CONST. TYPE E INLET W/ TYPE J BOTTOM
 GRATE EL. = 23.25
 INV. EL. = 16.05 (N)
 INV. EL. = 15.06 (S)

Conflict	Separation	Top of STM	Bottom of WM	WM + Thck	Top of Pipe	Final Grade	Cover
C-4	1.50	19.31	20.81	17.40	22.26	25.59	3.33

ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

MATCHLINE STA. 151+00

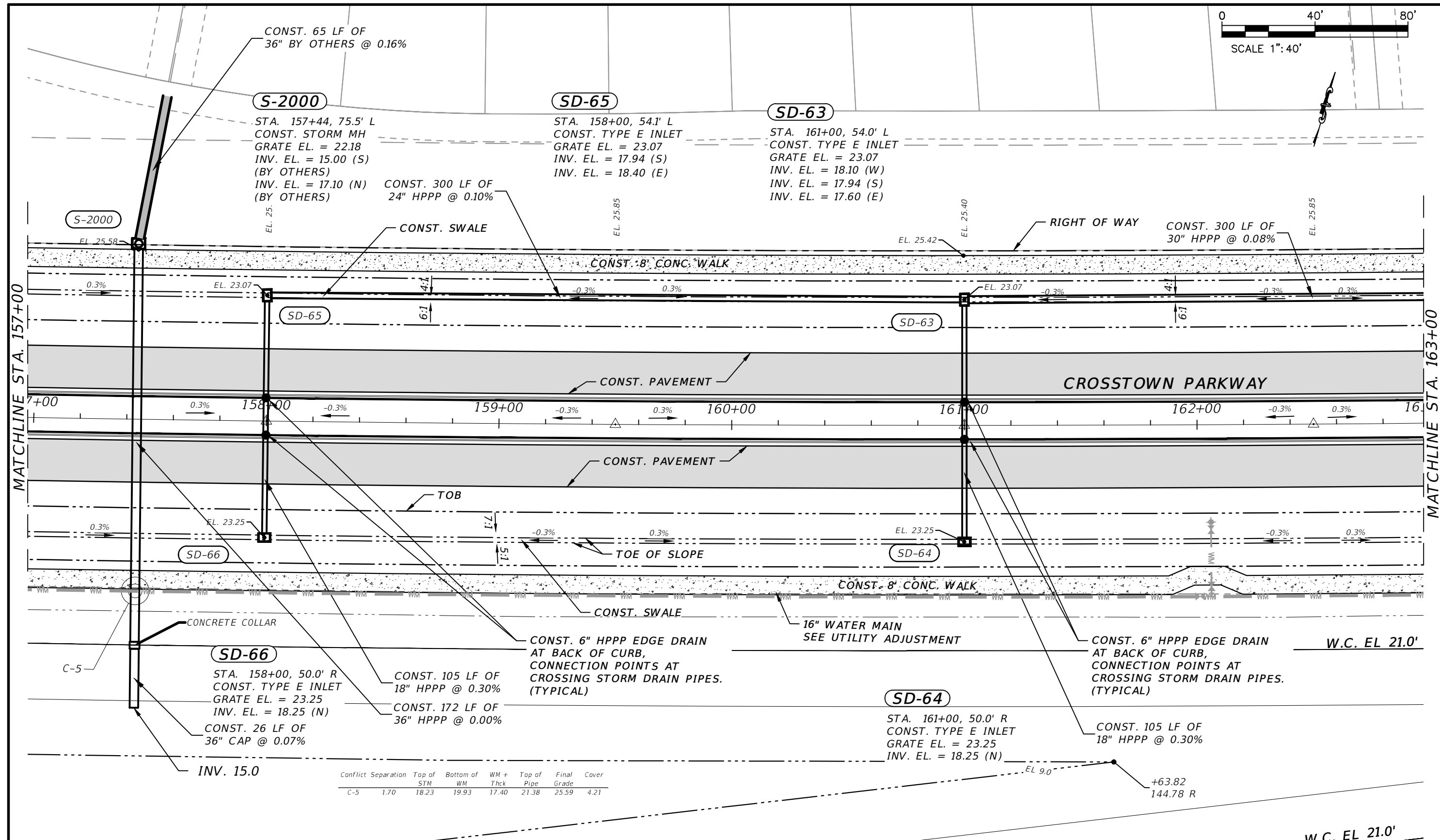
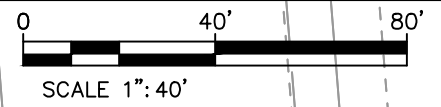
MATCHLINE STA. 157+00



CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS		REVISIONS		MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984		PLAN	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



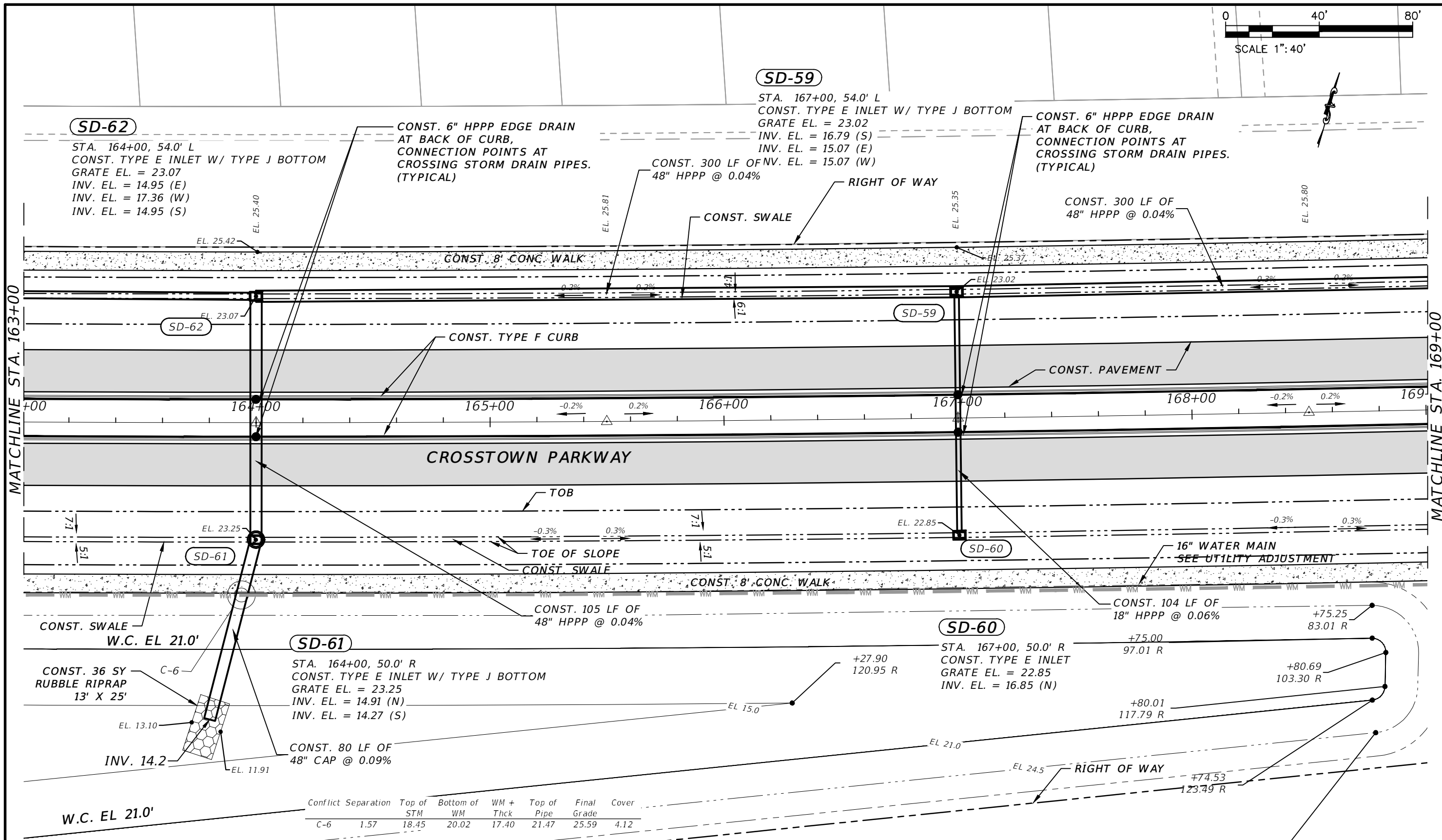
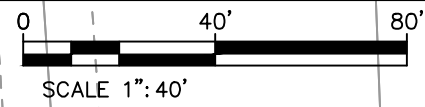
Conflict	Separation	Top of STM	Bottom of WM	WM + Thk	Top of Pipe	Final Grade	Cover
C-5	1.70	18.23	19.93	17.40	21.38	25.59	4.21

ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

W.C. EL 21.0'
CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984		PLAN	SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL				ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2		

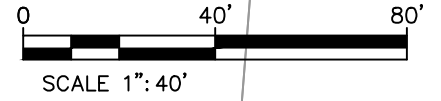
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

REVISIONS		DATE	DESCRIPTION	MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984		COUNTY	ROAD NO.	PLAN	SHEET NO.
DATE	DESCRIPTION				ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2				
8-29-22	REVISED PER CITY OF PSL								13	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SD-57

STA. 170+00, 53.9' L
 CONST. TYPE E INLET W/ TYPE J BOTTOM
 GRATE EL. = 23.01
 INV. EL. = 15.19 (W)
 INV. EL. = 17.94 (S)
 INV. EL. = 15.69 (E)

SD-55

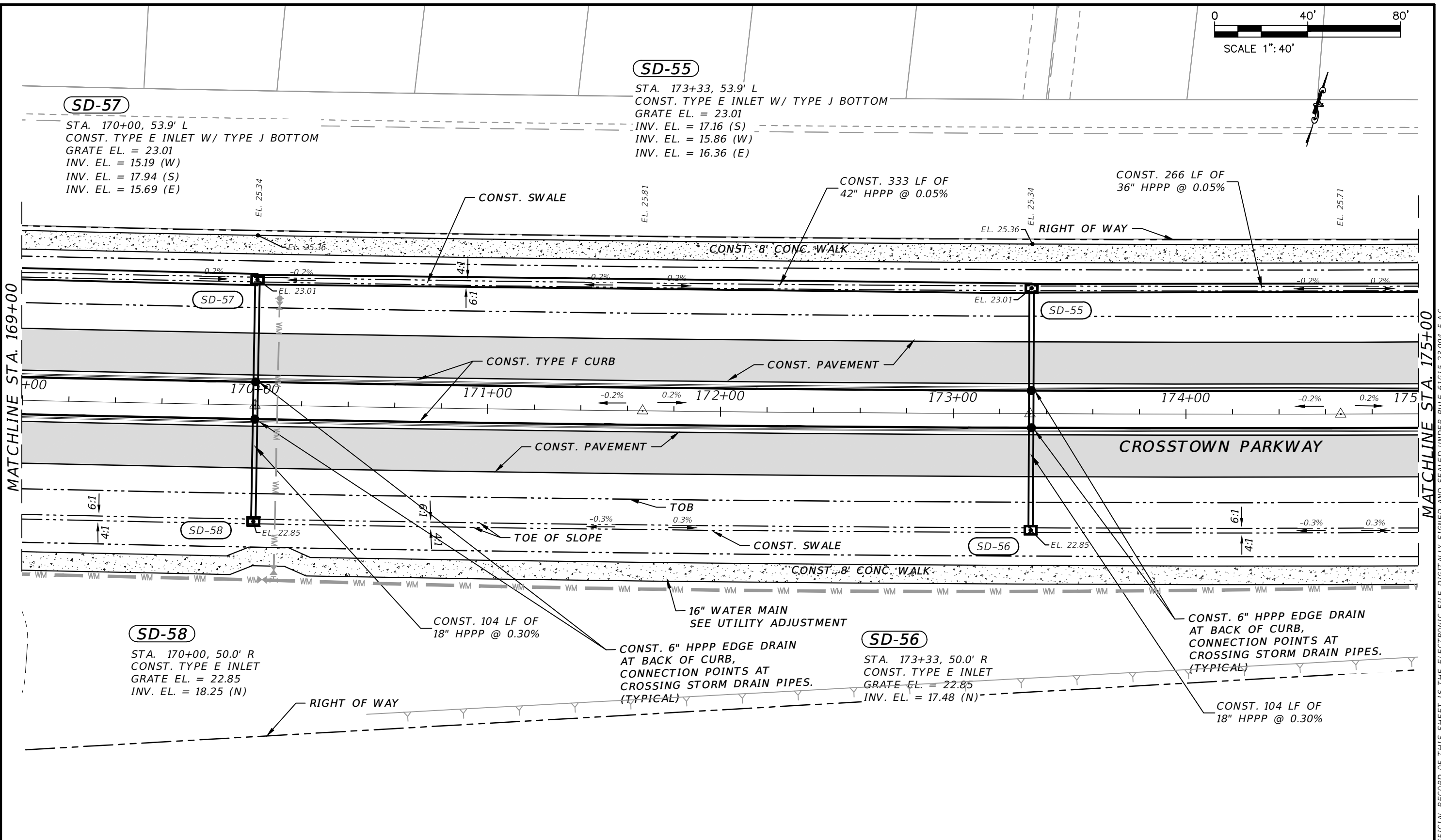
STA. 173+33, 53.9' L
 CONST. TYPE E INLET W/ TYPE J BOTTOM
 GRATE EL. = 23.01
 INV. EL. = 17.16 (S)
 INV. EL. = 15.86 (W)
 INV. EL. = 16.36 (E)

SD-58

STA. 170+00, 50.0' R
 CONST. TYPE E INLET
 GRATE EL. = 22.85
 INV. EL. = 18.25 (N)

SD-56

STA. 173+33, 50.0' R
 CONST. TYPE E INLET
 GRATE EL. = 22.85
 INV. EL. = 17.48 (N)



ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
 1172 SW 30TH STREET, SUITE 500,
 PALM CITY, FLORIDA, 34990
 C.A. 29013
 SHAUN G. MACKENZIE P.E.
 P.E. NO. 61751

CITY OF PORT ST. LUCIE
 121 SW PORT ST. LUCIE BLVD
 PORT ST. LUCIE BLVD, FL 34984

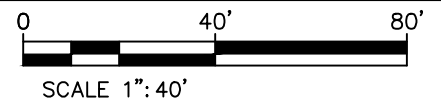
COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

PLAN

SHEET NO.
 14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SD-53

STA. 176+00, 53.9' L
 CONST. TYPE E INLET W/ TYPE J BOTTOM
 GRATE EL. = 23.01
 INV. EL. = 16.49 (W)
 INV. EL. = 17.94 (S)
 INV. EL. = 16.49 (E)

SD-51

STA. 179+00, 53.9' L
 CONST. TYPE E INLET
 GRATE EL. = 22.97
 INV. EL. = 16.67 (W)
 INV. EL. = 16.67 (E)
 INV. EL. = 17.94 (S)

SD-54

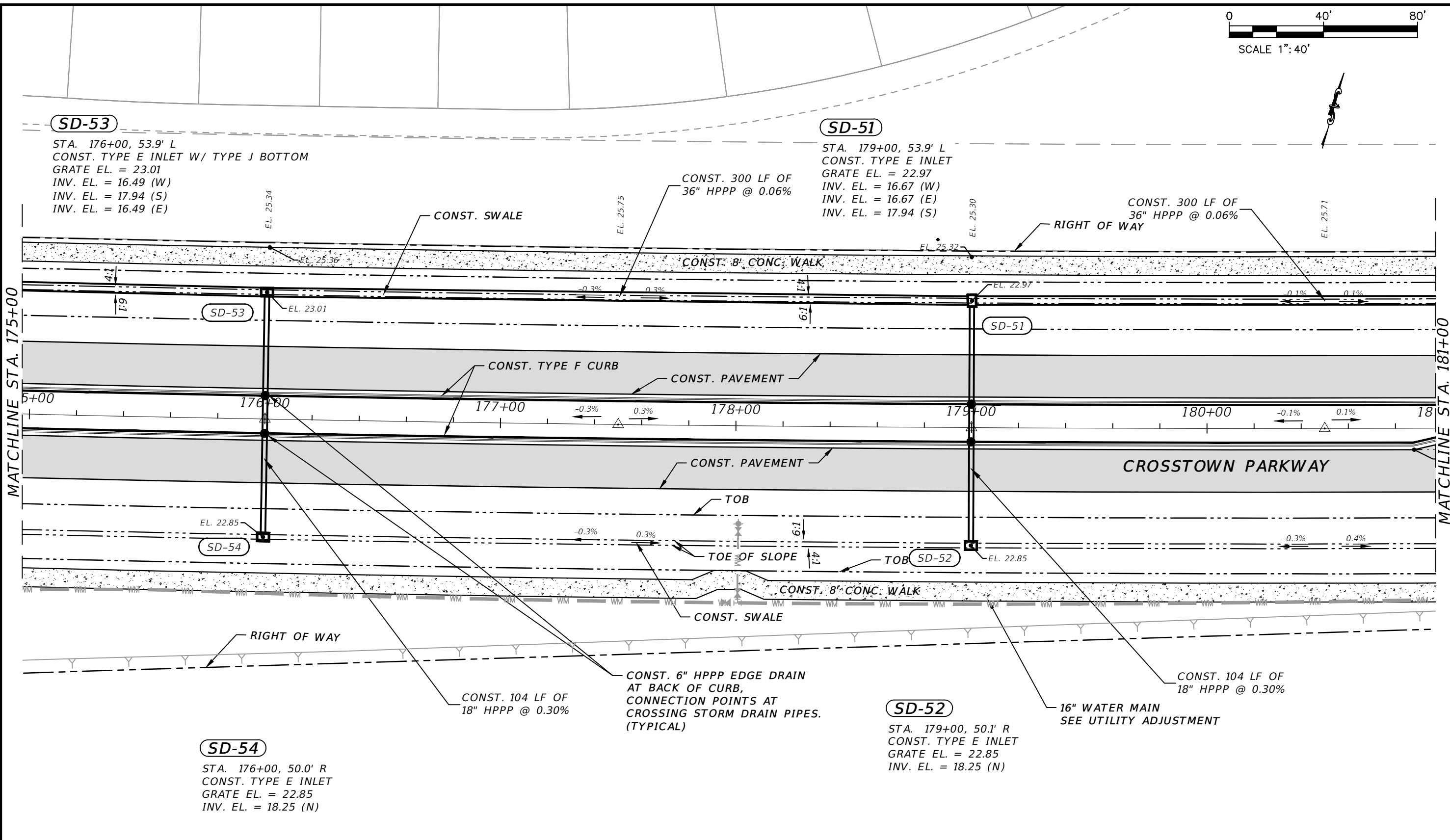
STA. 176+00, 50.0' R
 CONST. TYPE E INLET
 GRATE EL. = 22.85
 INV. EL. = 18.25 (N)

SD-52

STA. 179+00, 50.1' R
 CONST. TYPE E INLET
 GRATE EL. = 22.85
 INV. EL. = 18.25 (N)

MATCHLINE STA. 175+00

MATCHLINE STA. 181+00



ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
 1172 SW 30TH STREET, SUITE 500,
 PALM CITY, FLORIDA, 34990
 C.A. 29013
 SHAUN G. MACKENZIE P.E.
 P.E. NO. 61751

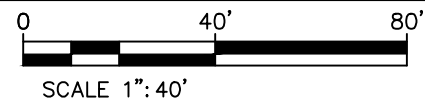
CITY OF PORT ST. LUCIE
 121 SW PORT ST. LUCIE BLVD
 PORT ST. LUCIE BLVD, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

PLAN

SHEET NO.
 15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SD-1
 STA. 183+49.50, 53.08' L
 CONST. TYPE E INLET
 GRATE EL. = 23.43
 INV. EL. = 18.12 (E)
 INV. EL. = 18.30 (SE)
 INV. EL. = 17.50 (W)

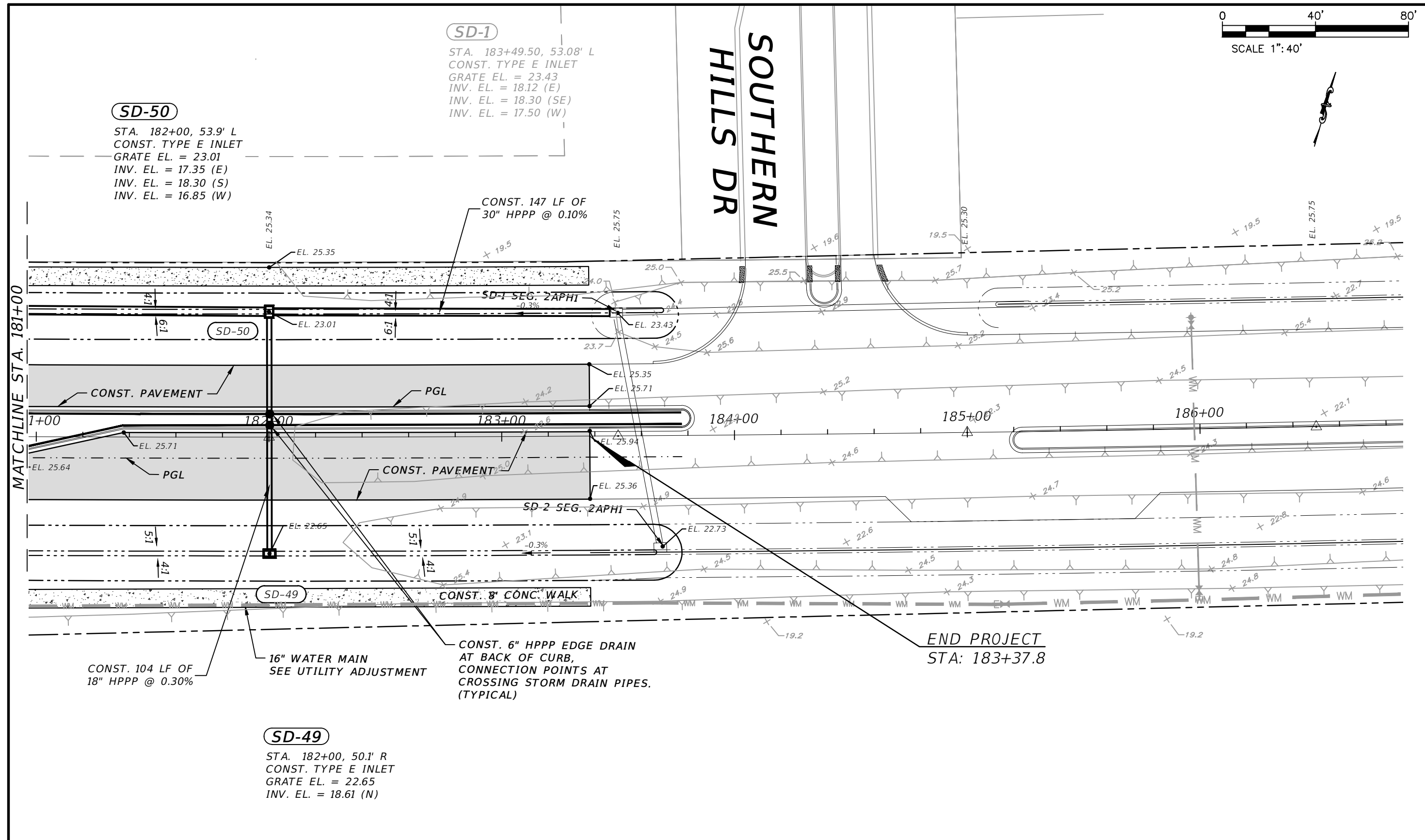
SD-50
 STA. 182+00, 53.9' L
 CONST. TYPE E INLET
 GRATE EL. = 23.01
 INV. EL. = 17.35 (E)
 INV. EL. = 18.30 (S)
 INV. EL. = 16.85 (W)

SD-49
 STA. 182+00, 50.1' R
 CONST. TYPE E INLET
 GRATE EL. = 22.65
 INV. EL. = 18.61 (N)

**SOUTHERN
 HILLS DR**

MATCHLINE STA. 181+00

END PROJECT
 STA: 183+37.8



CONST. 104 LF OF
 18" HPPP @ 0.30%

16" WATER MAIN
 SEE UTILITY ADJUSTMENT

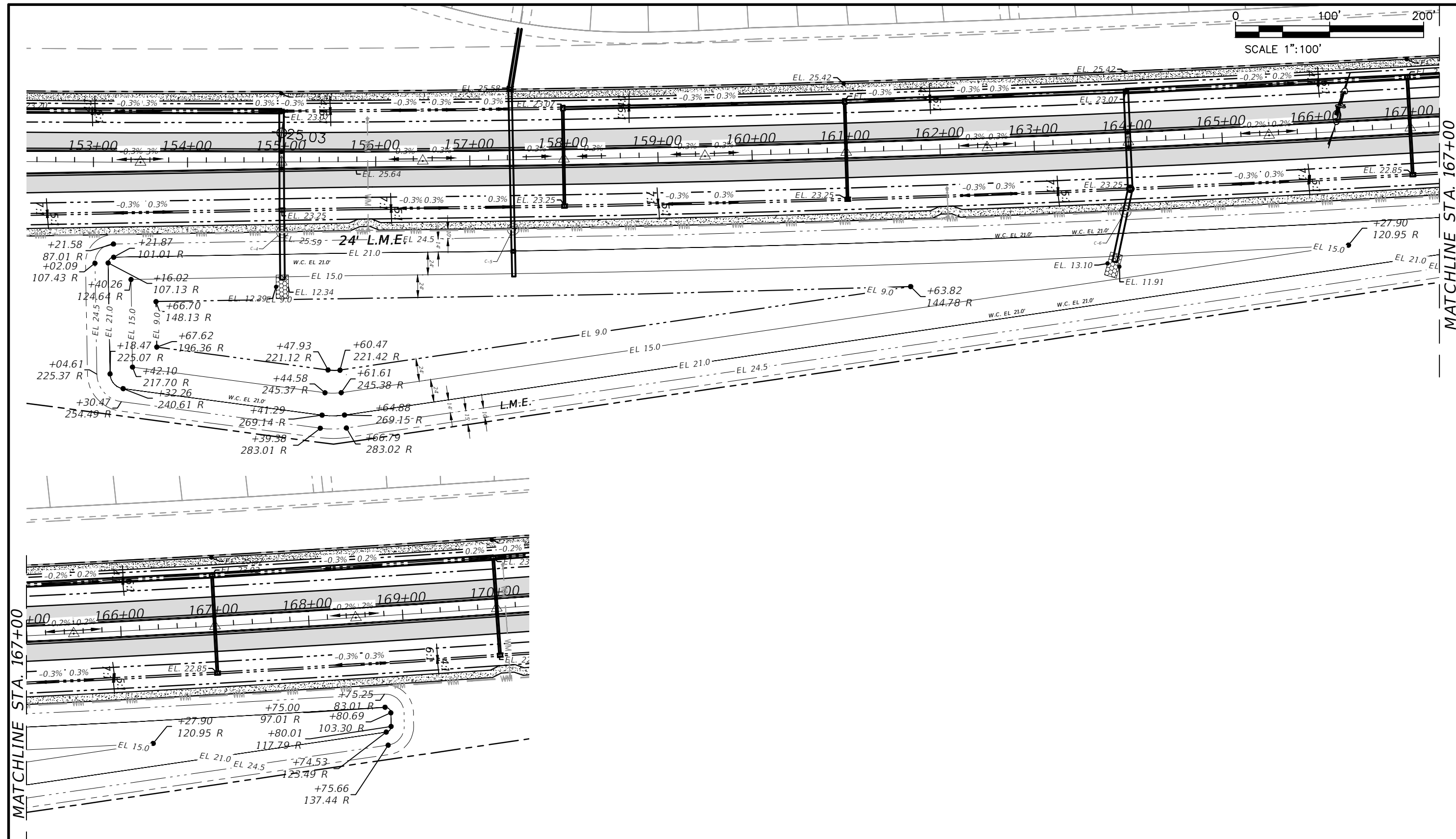
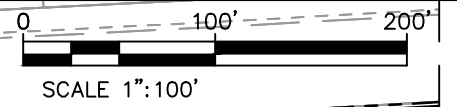
CONST. 6" HPPP EDGE DRAIN
 AT BACK OF CURB,
 CONNECTION POINTS AT
 CROSSING STORM DRAIN PIPES.
 (TYPICAL)

ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		PLAN	SHEET NO. 16
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL				ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

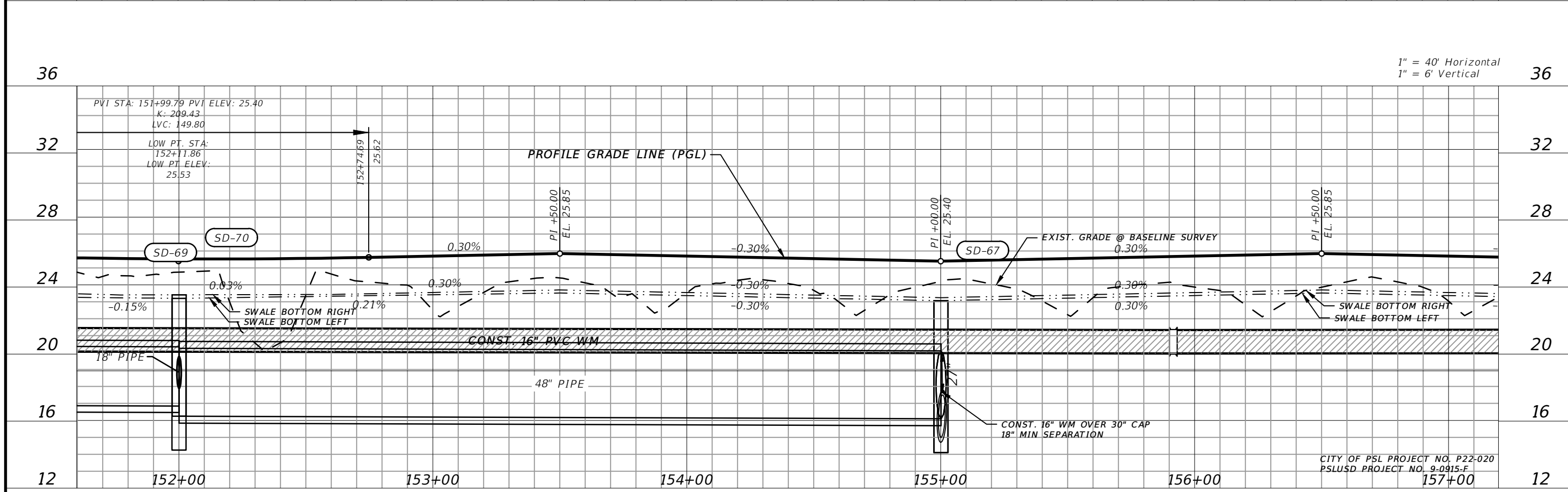
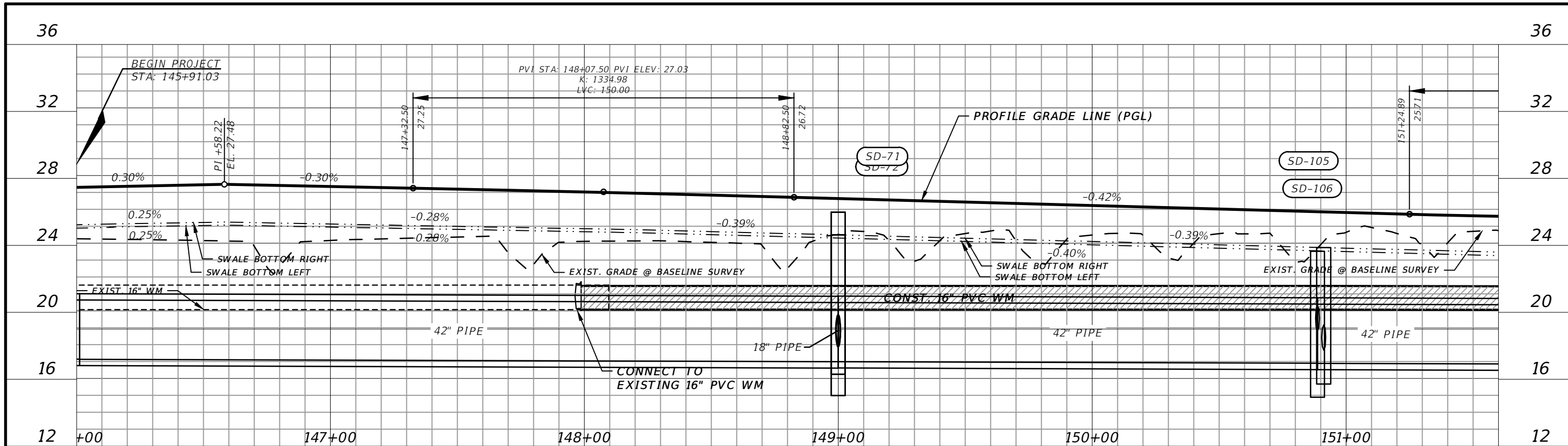


ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		POND PLAN	SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 40' Horizontal
1" = 6' Vertical

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9.0915.F
157+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

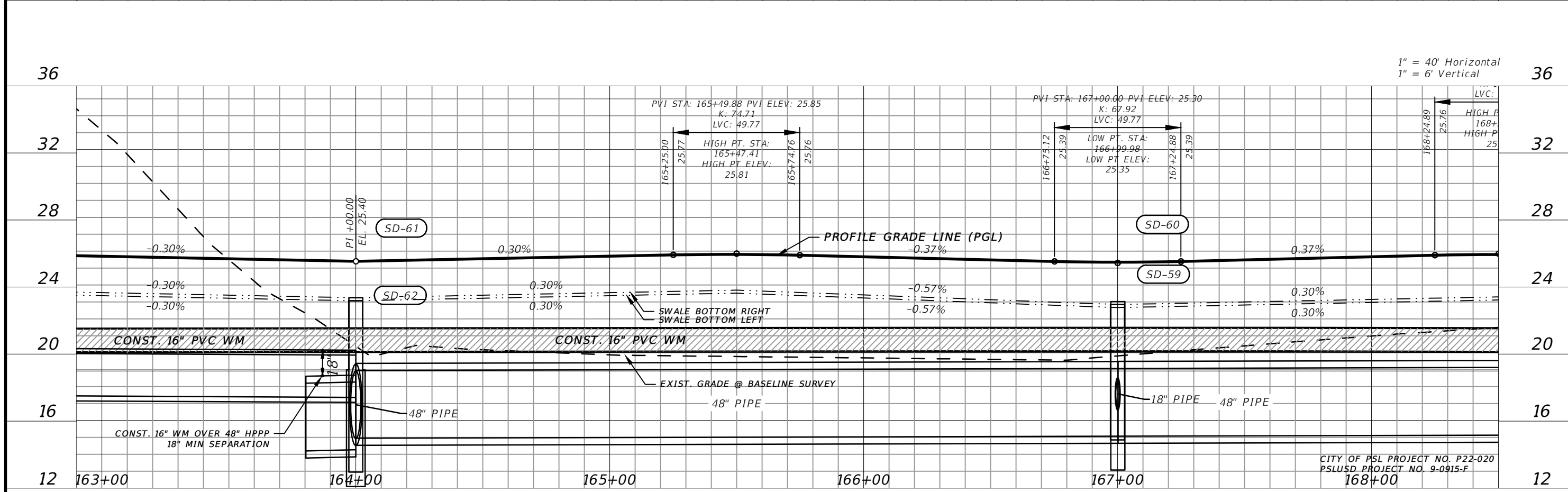
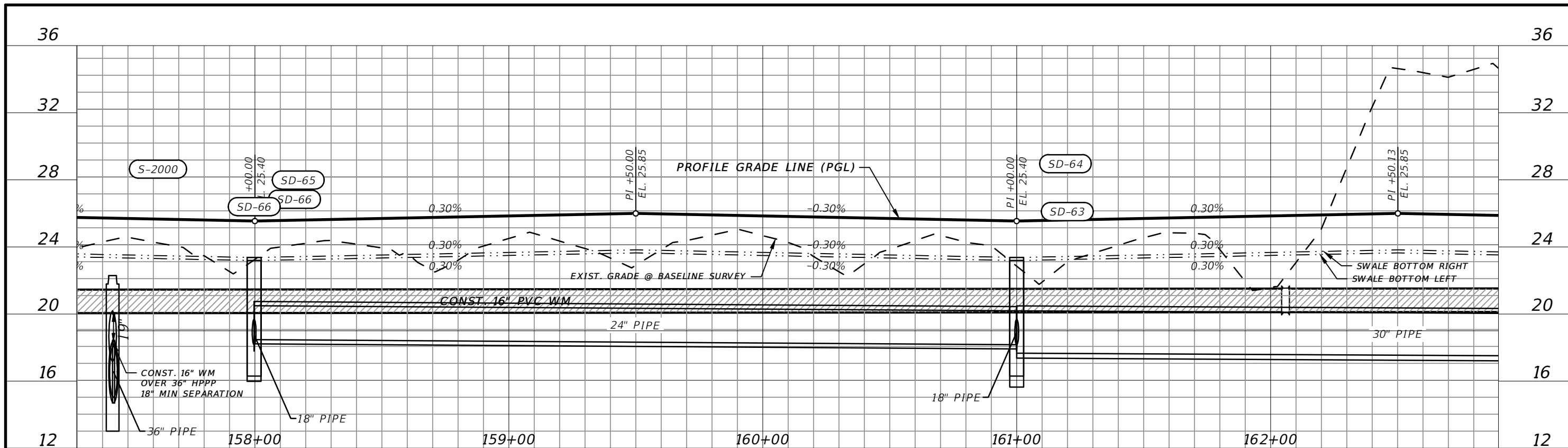
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

PROFILE

SHEET NO.
18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

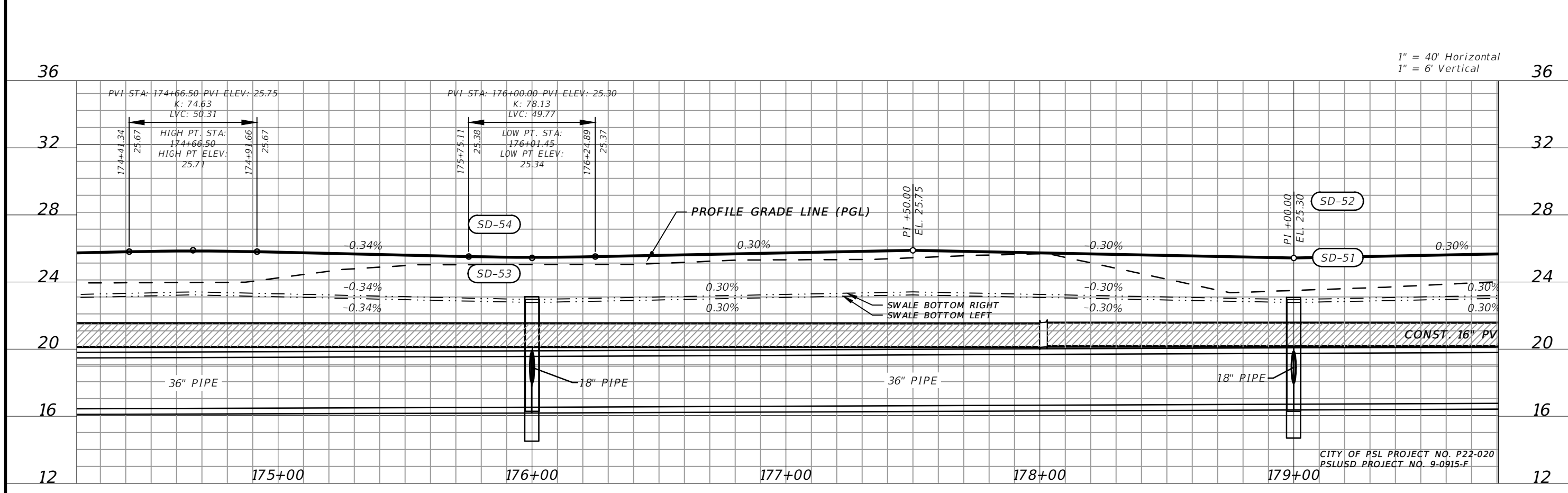
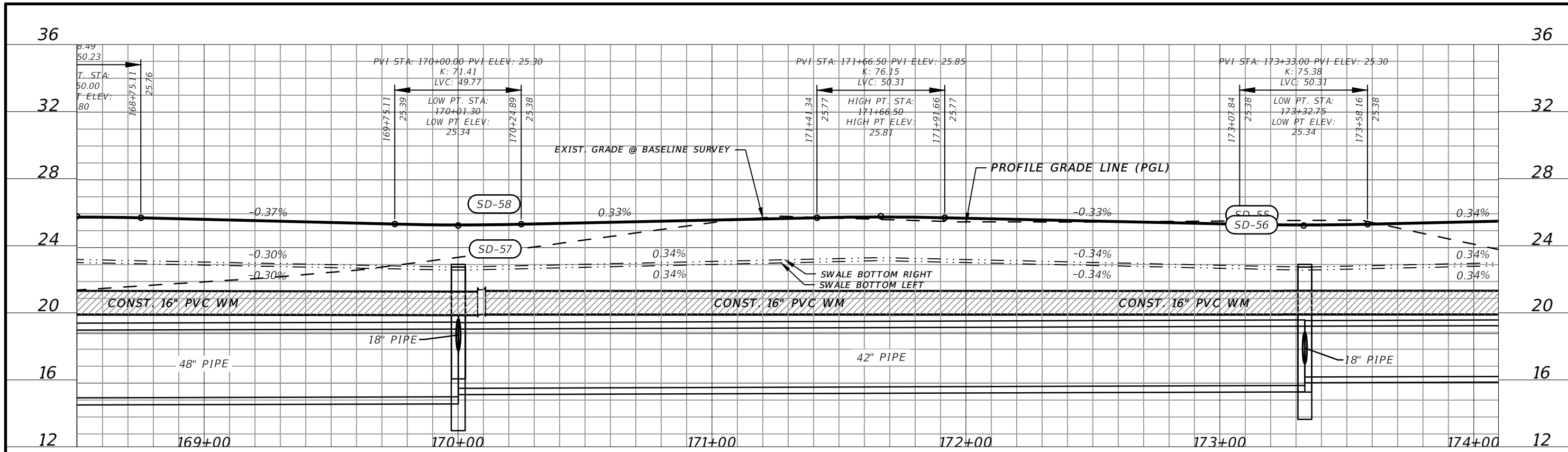


1" = 40' Horizontal
1" = 6' Vertical

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F
168+00

REVISIONS		REVISIONS		MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984		PROFILE	SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

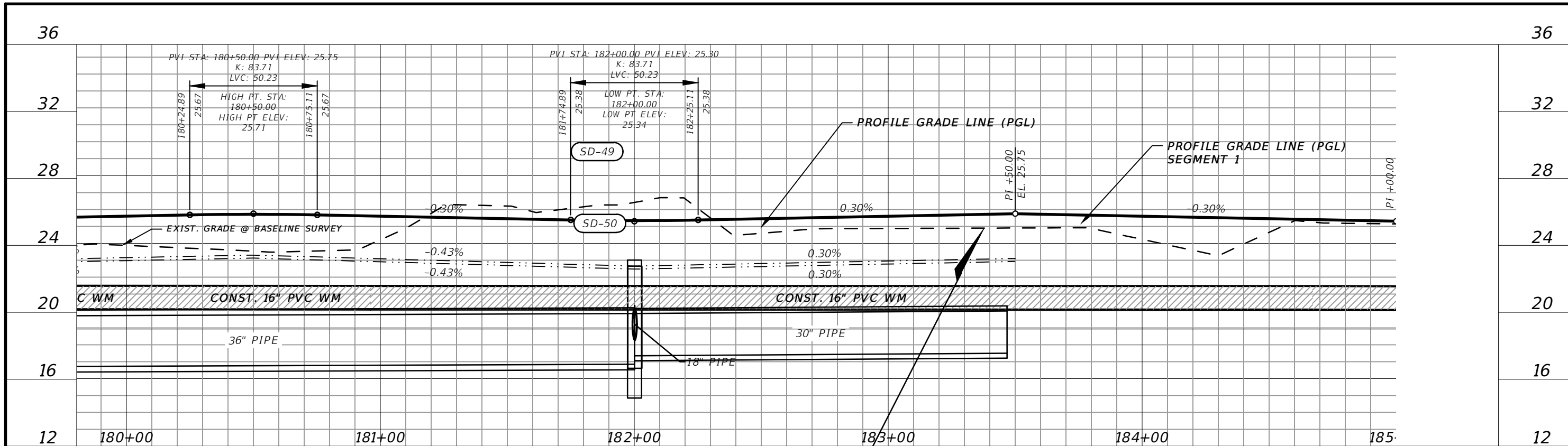


1" = 40' Horizontal
1" = 6' Vertical

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS		MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751		CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984		PROFILE	SHEET NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION	COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

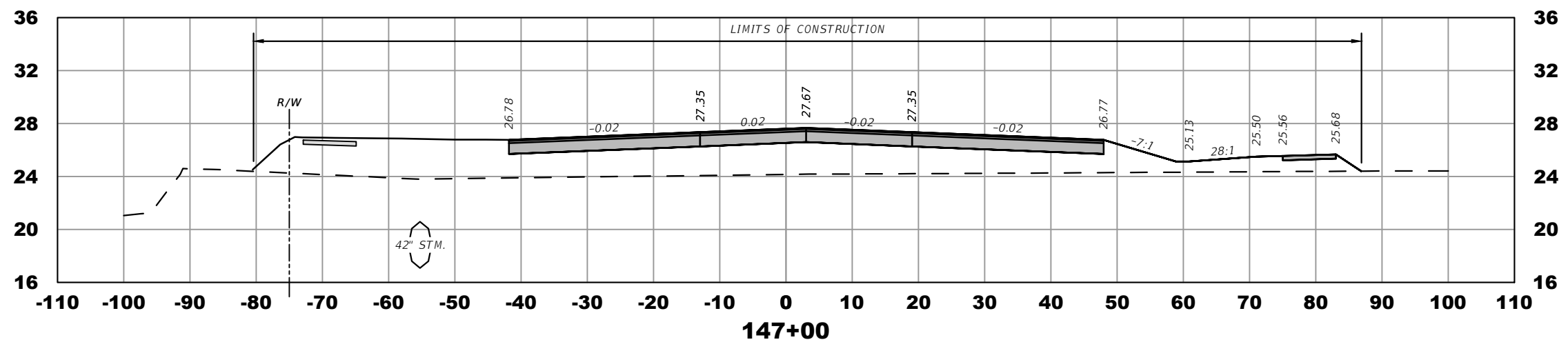
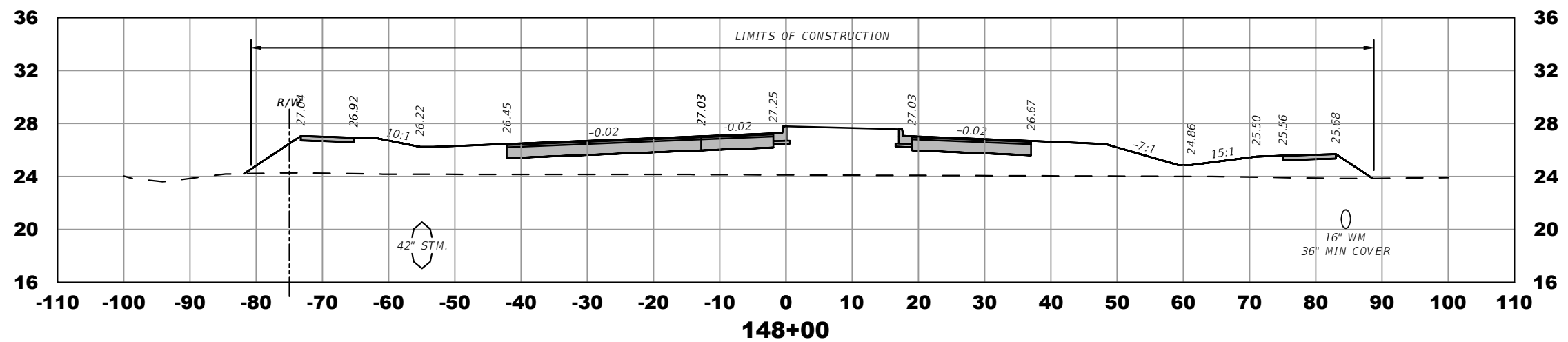
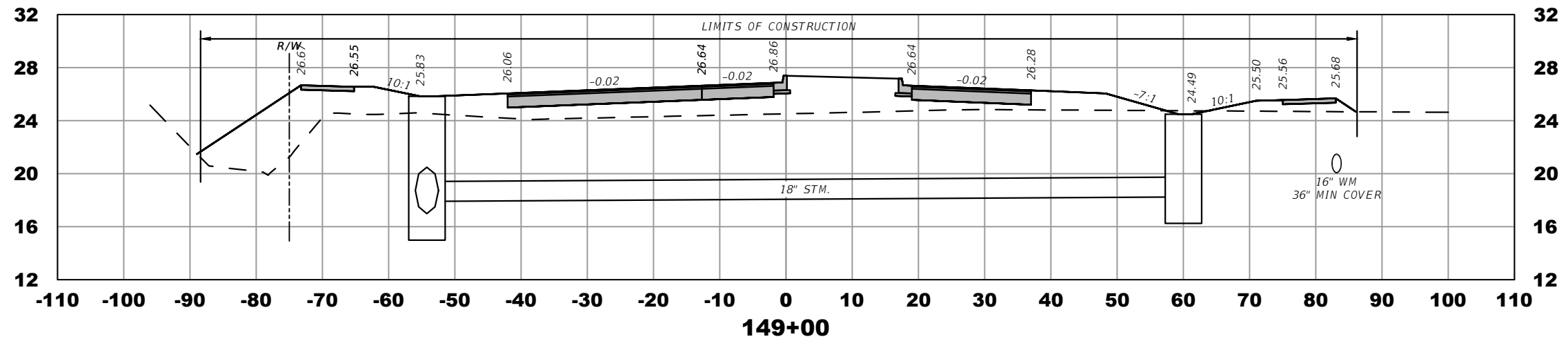
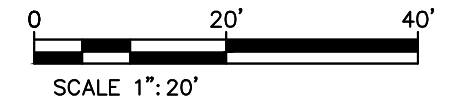
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

PROFILE

SHEET NO.
21

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

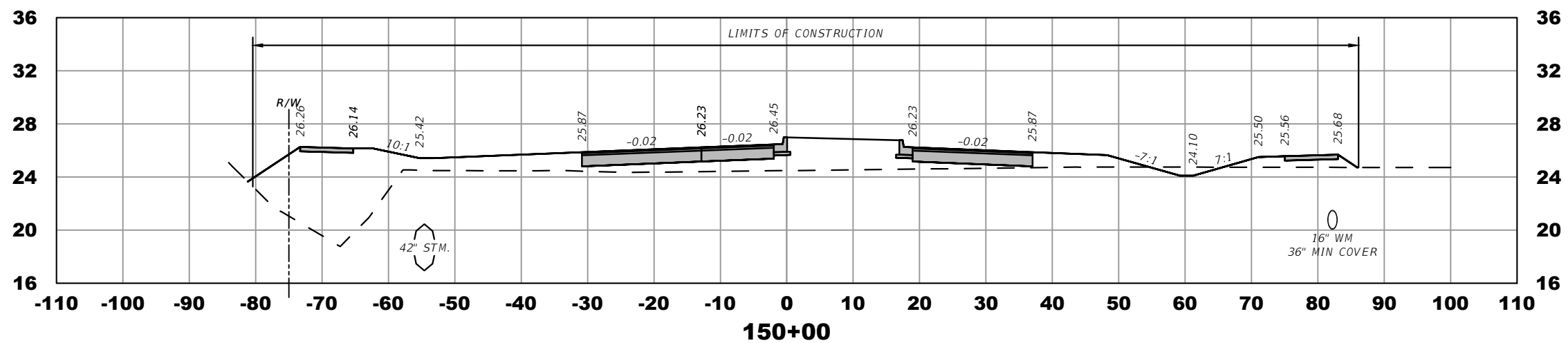
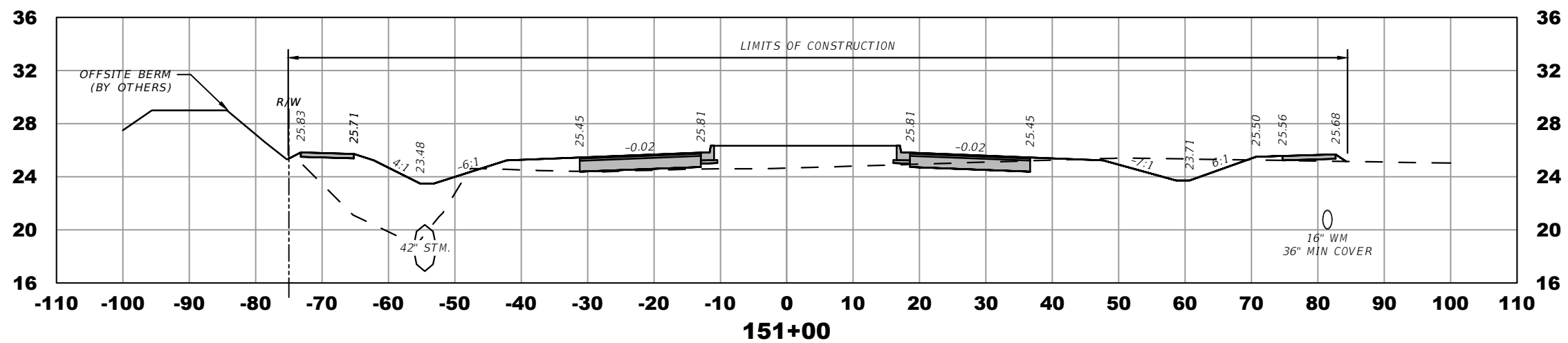
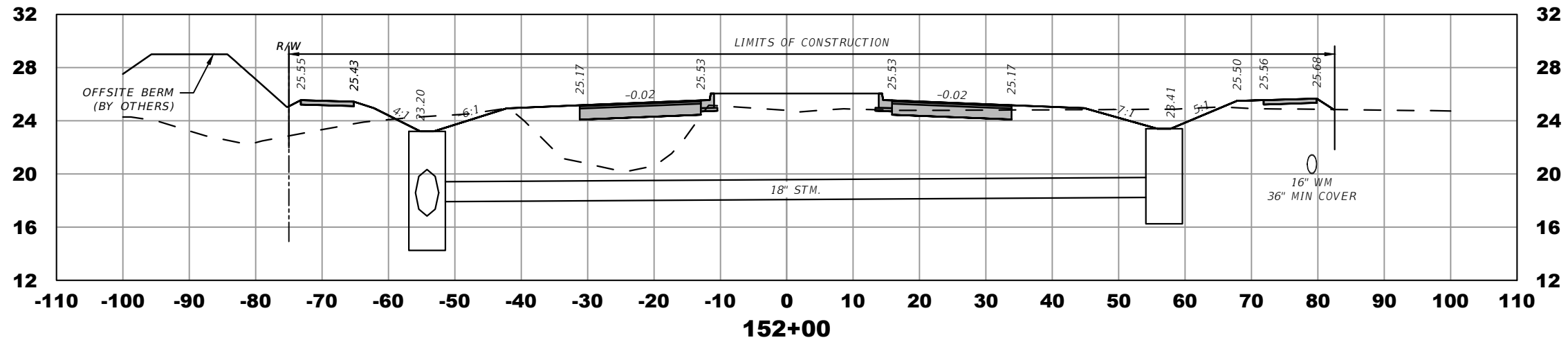
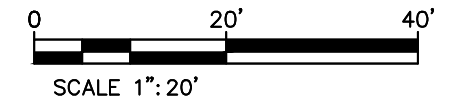


ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		CROSS SECTIONS	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

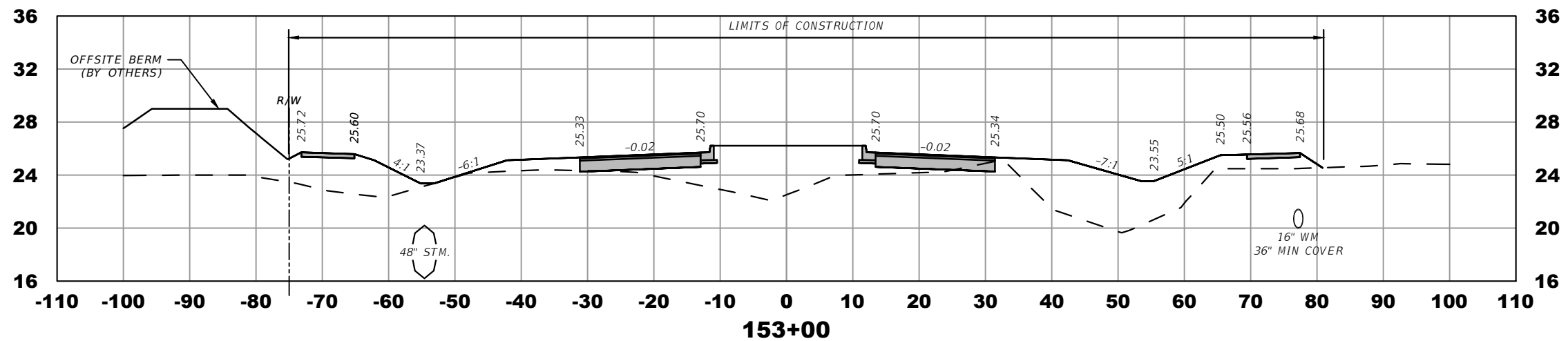
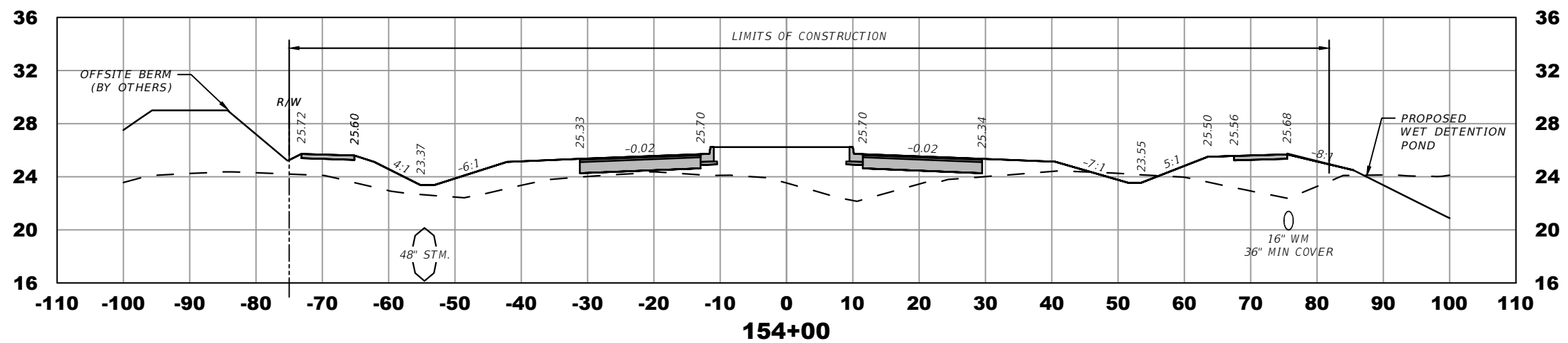
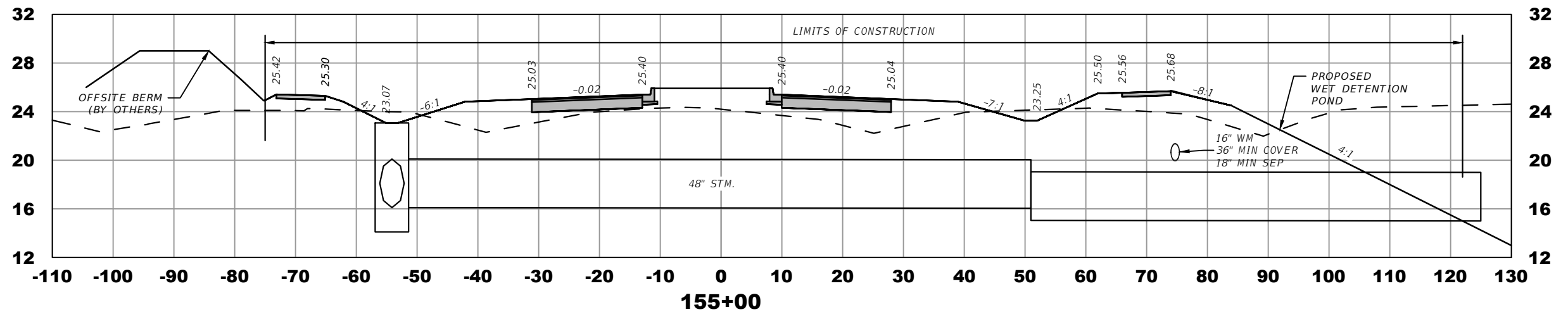
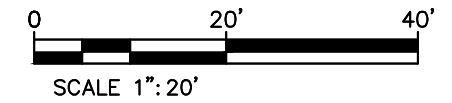
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.
23

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

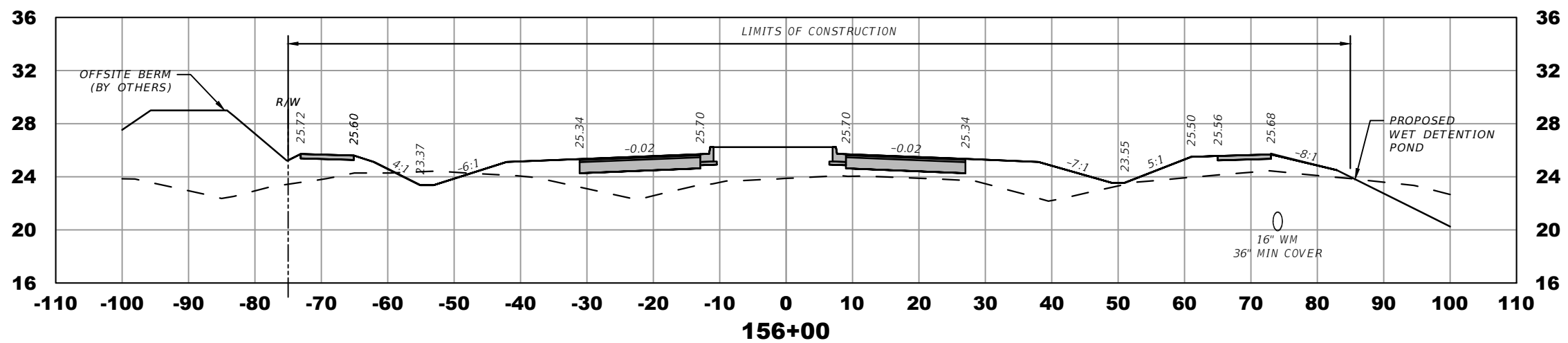
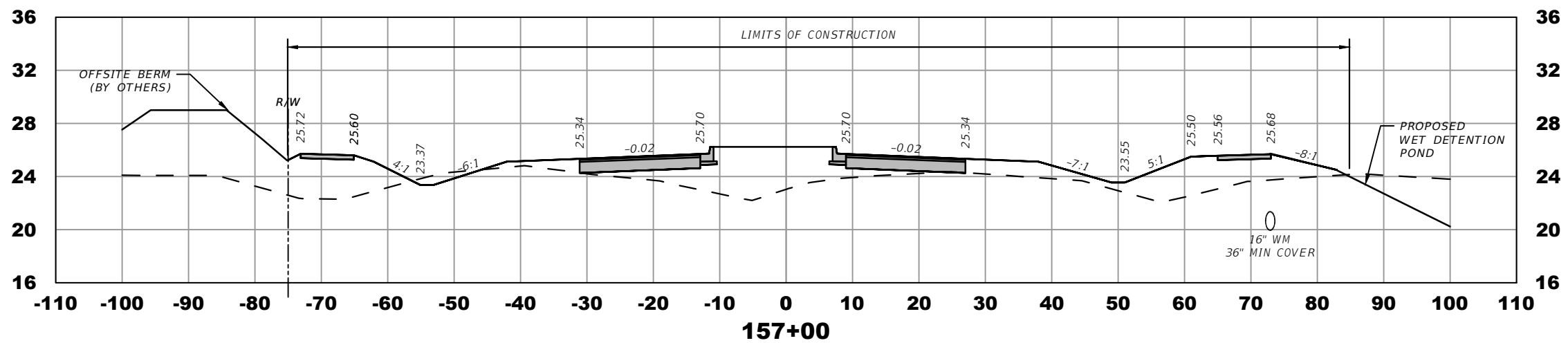
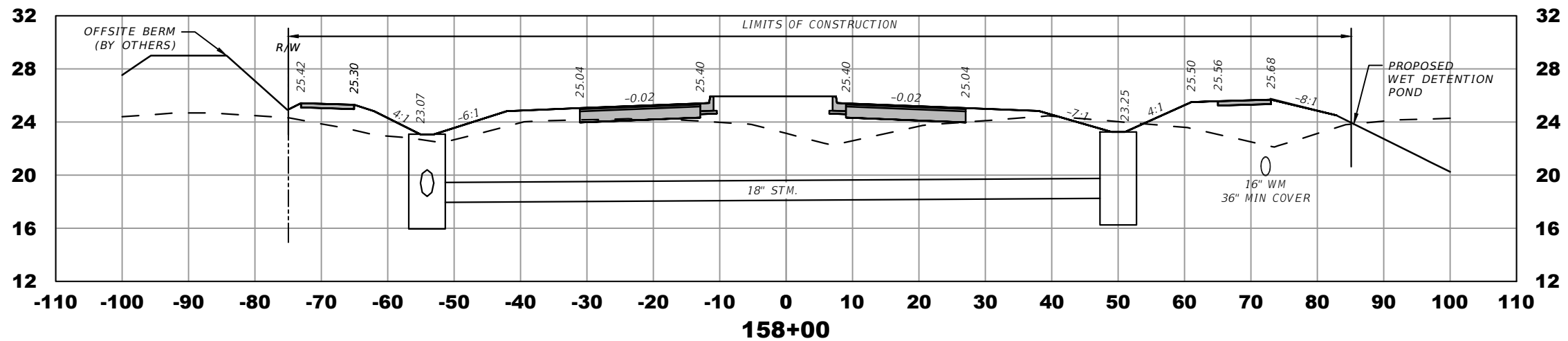
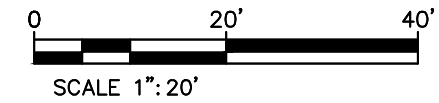
COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

24

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

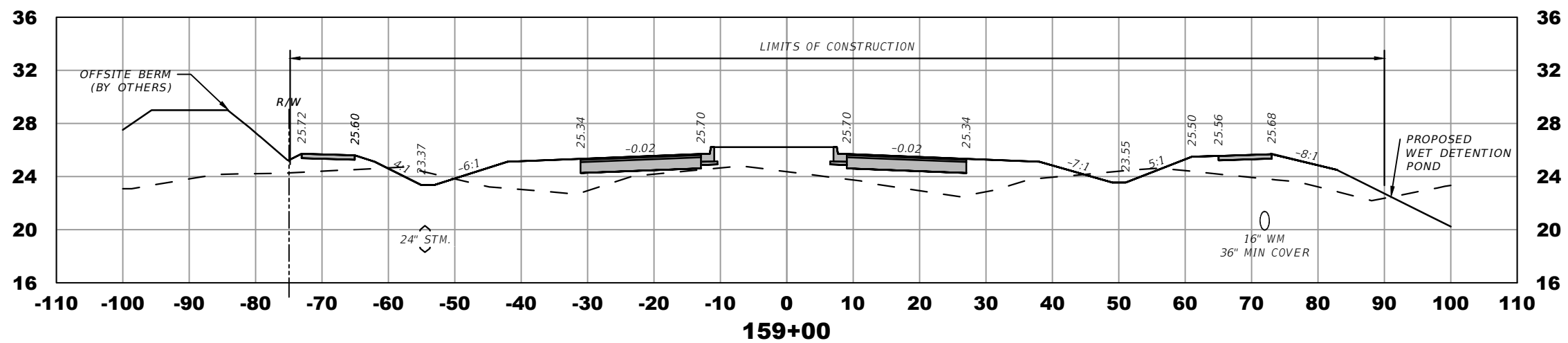
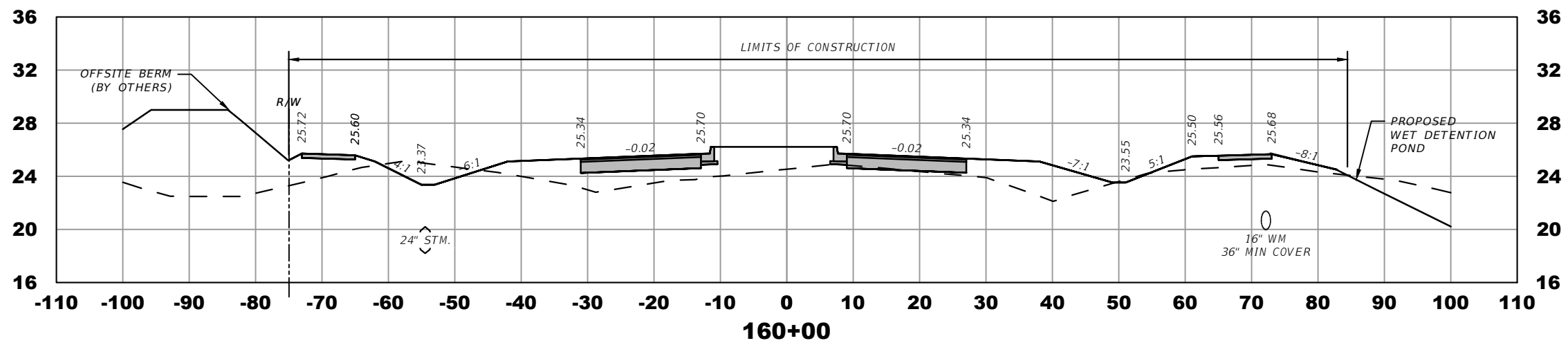
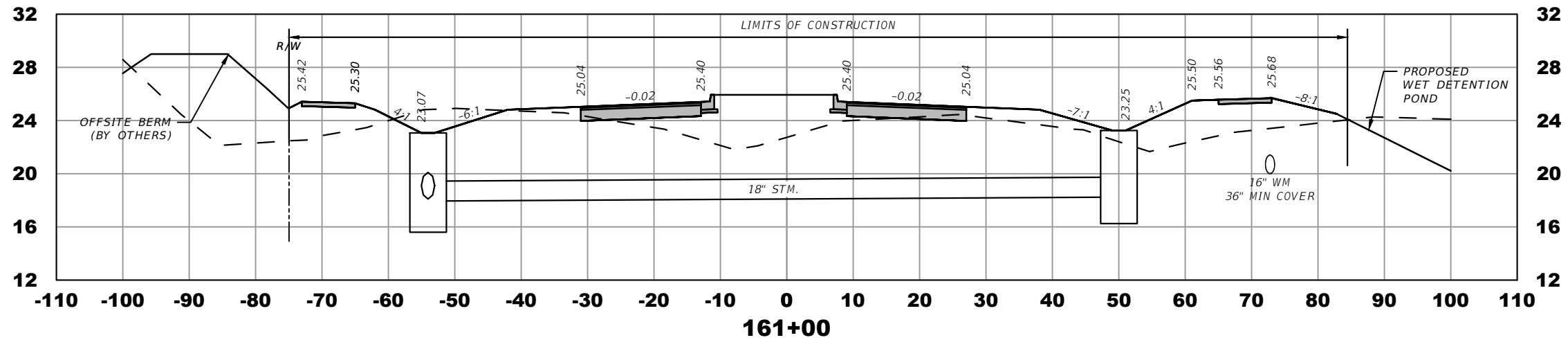
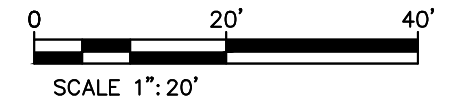
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

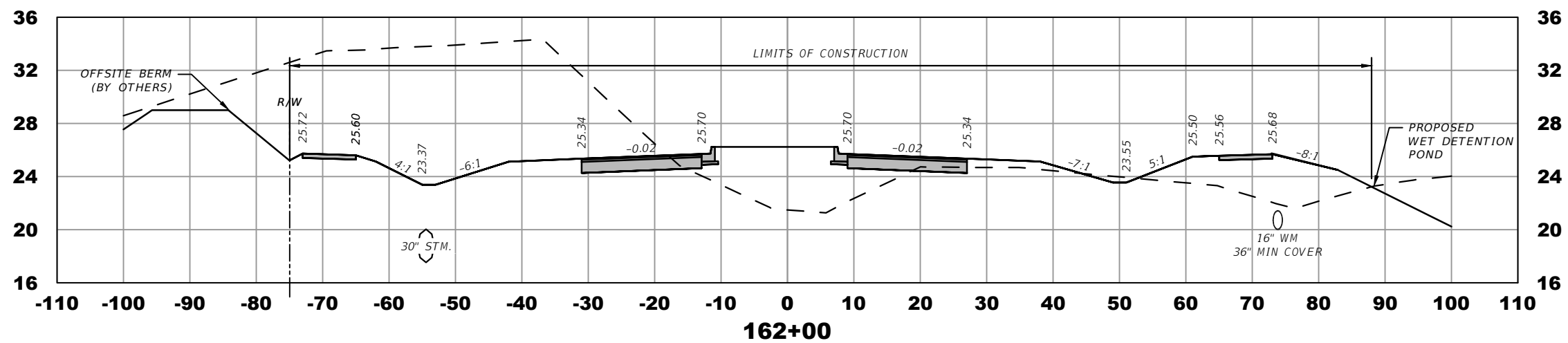
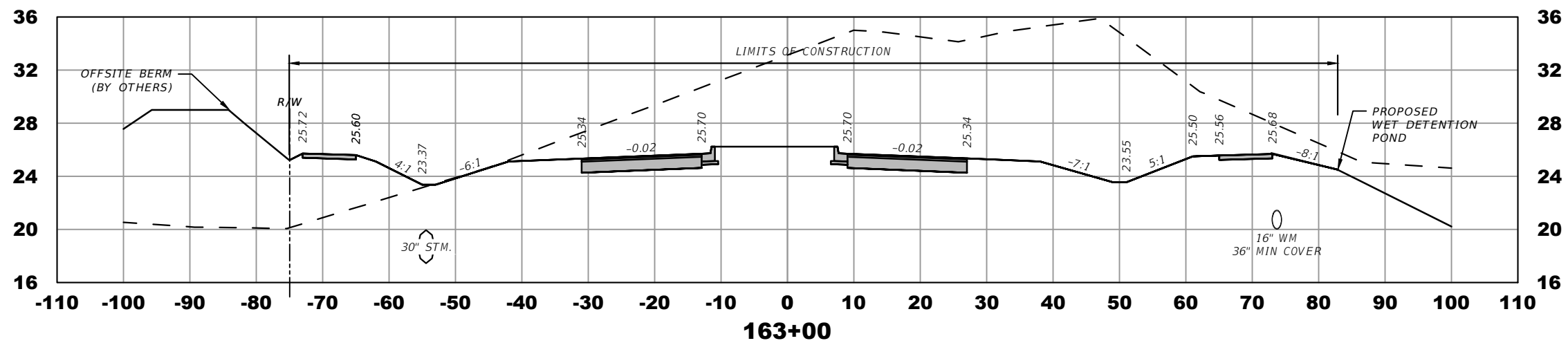
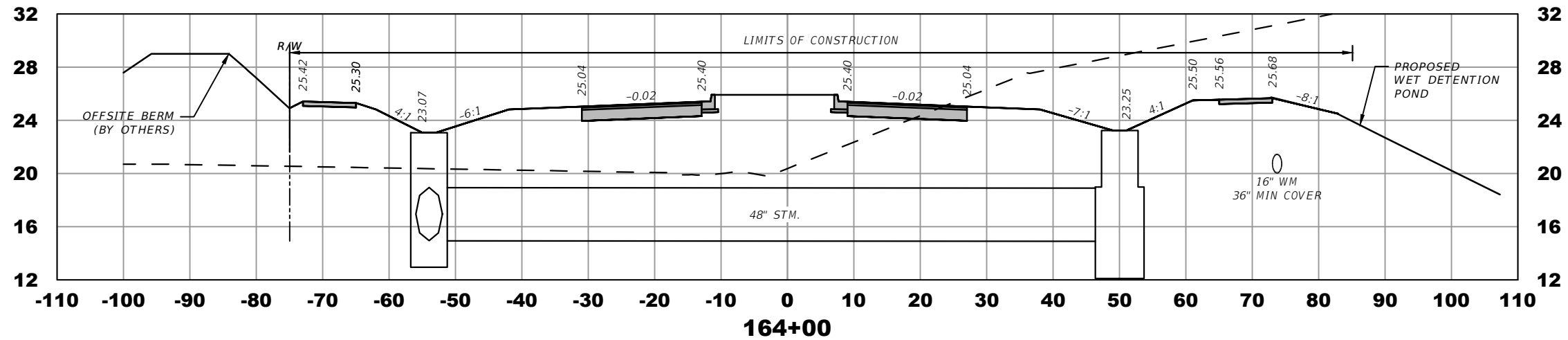
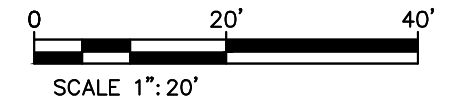
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

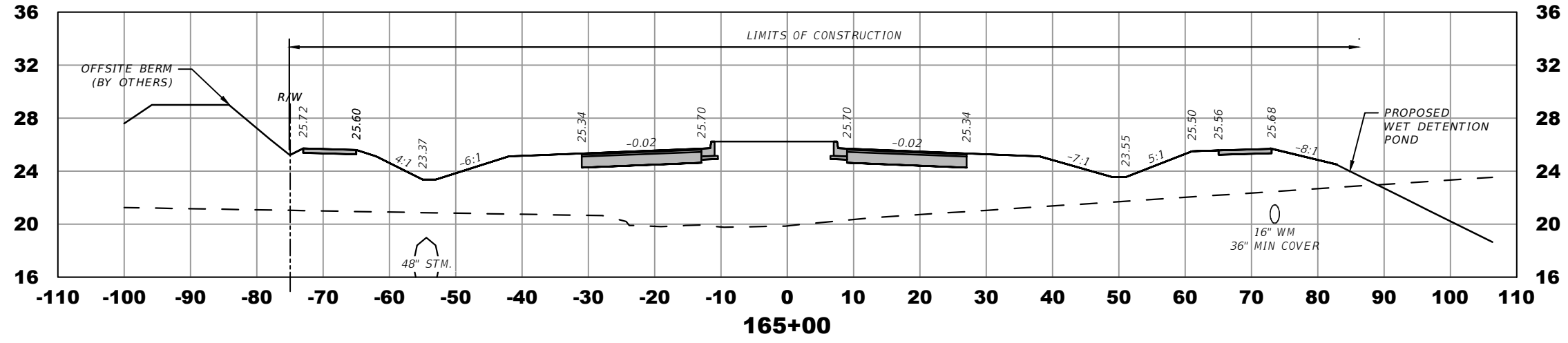
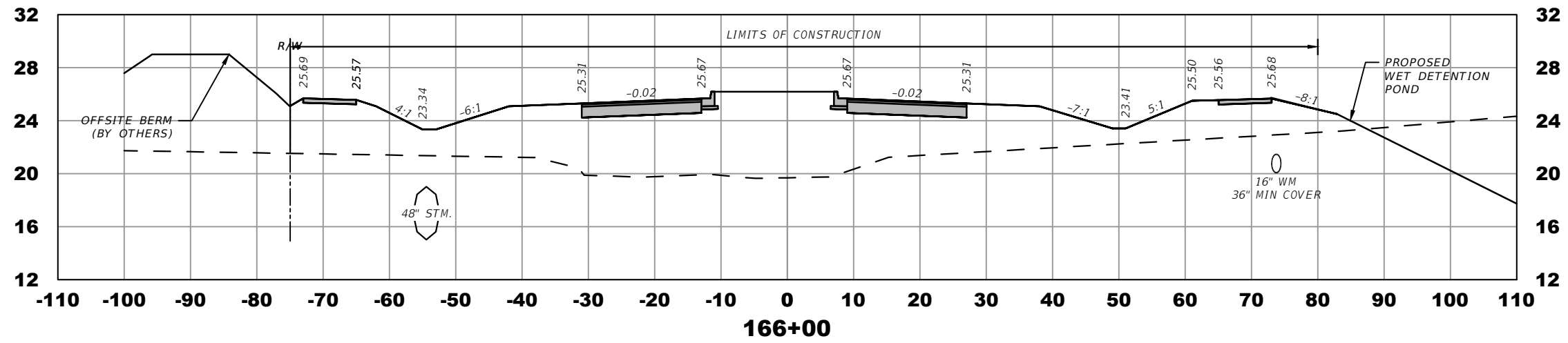
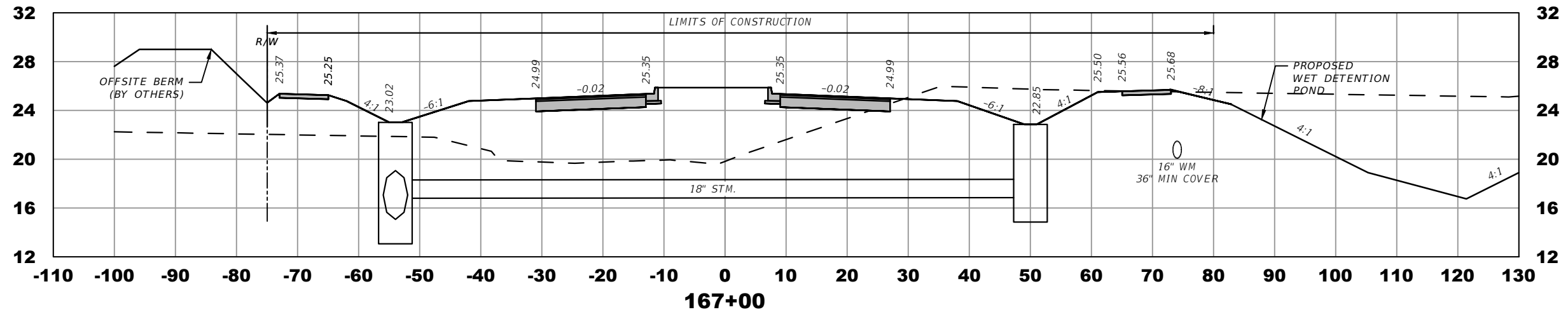
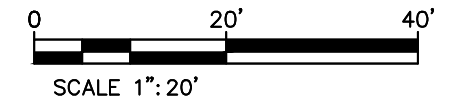
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

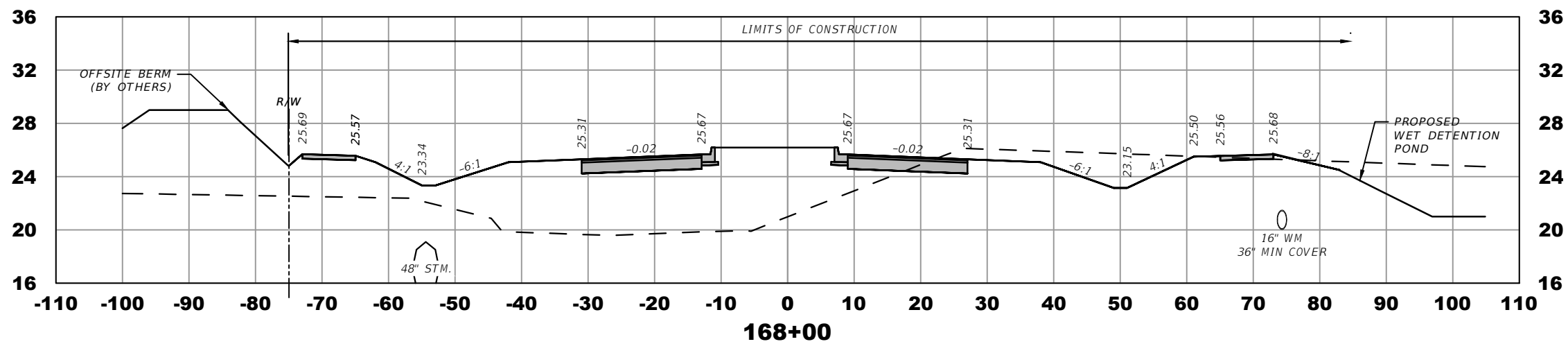
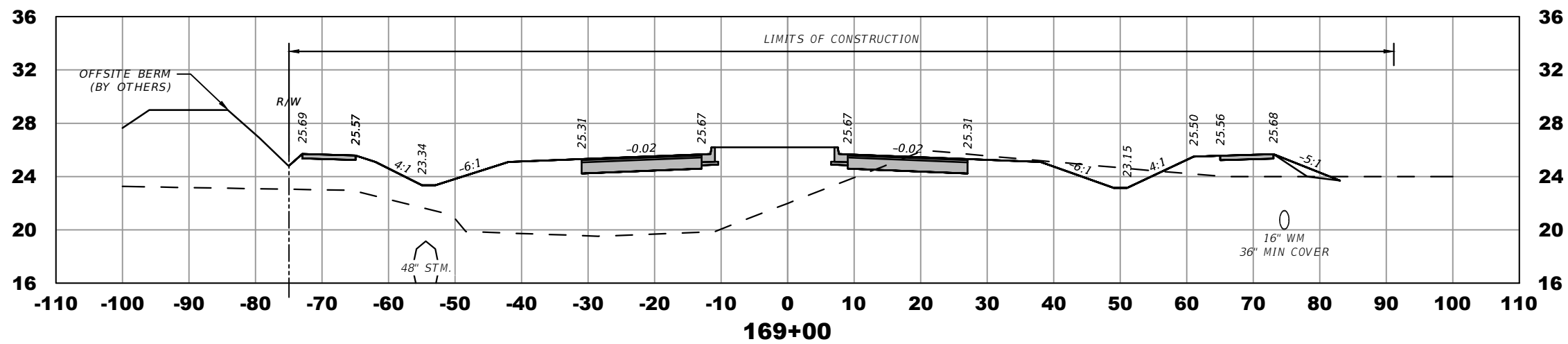
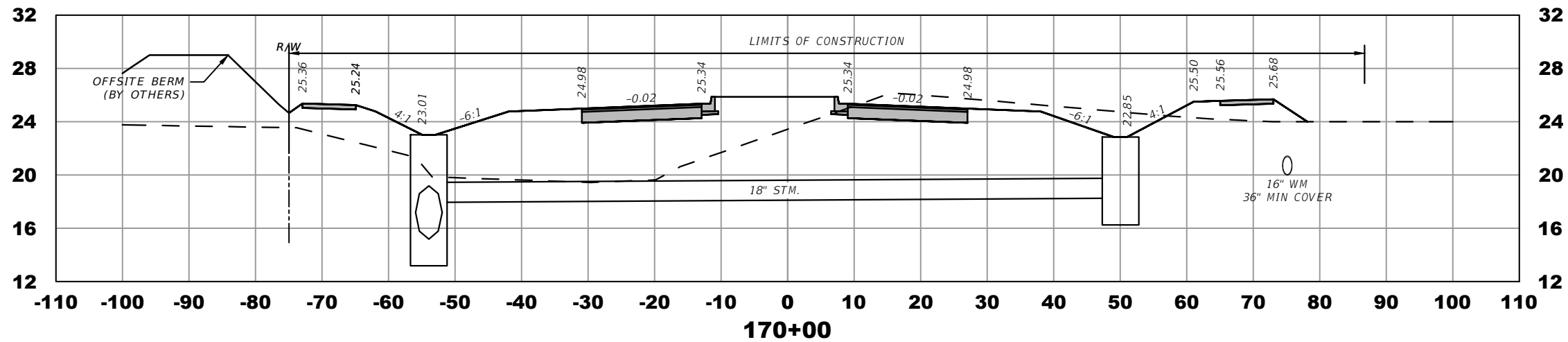
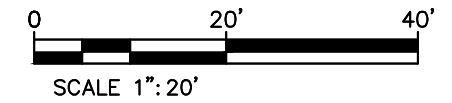
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.
28

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

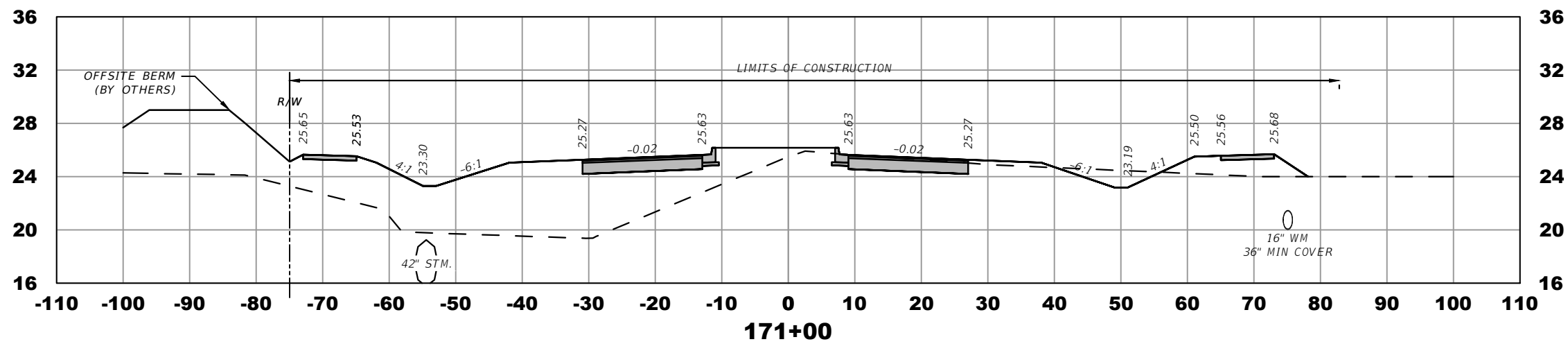
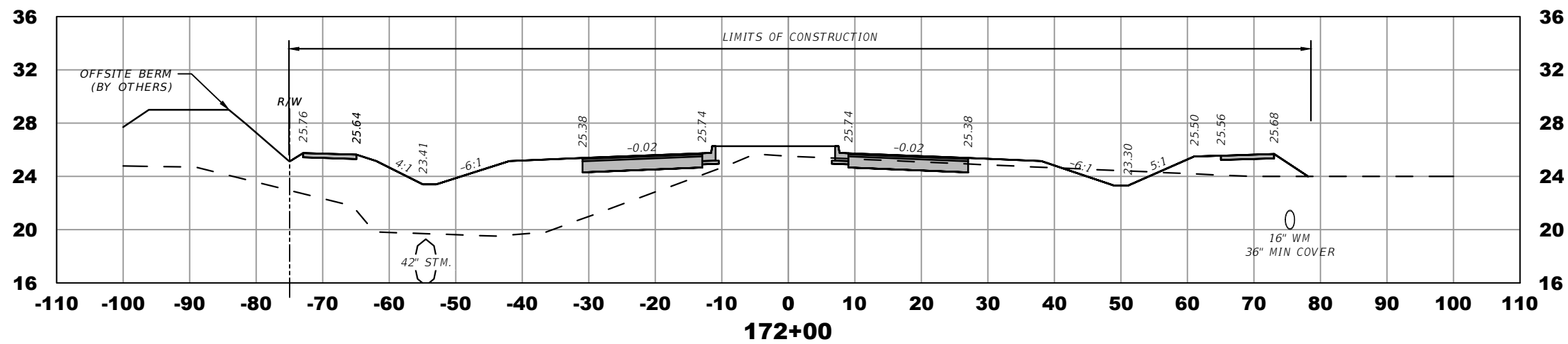
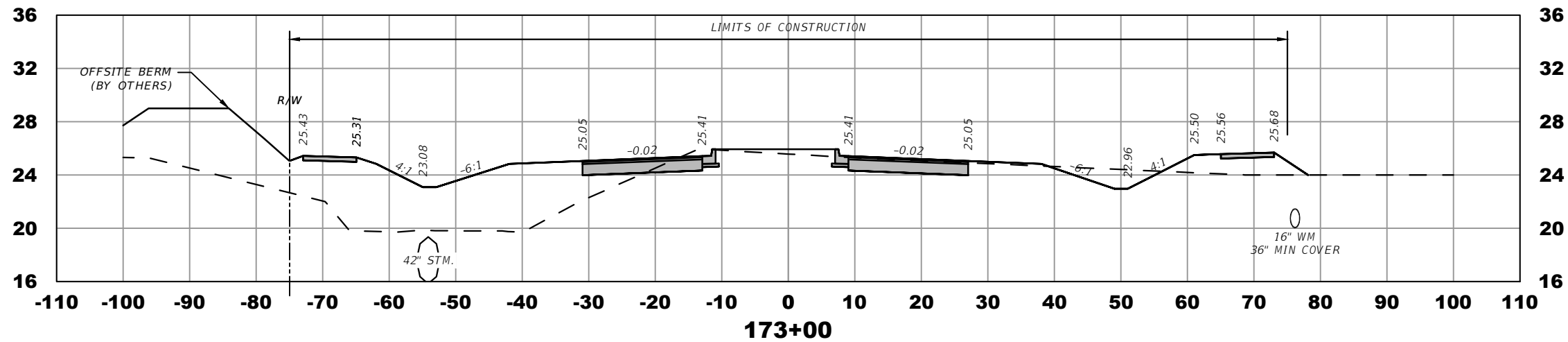
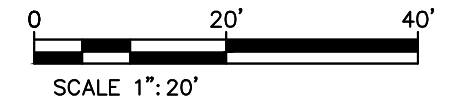
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.
29

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ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

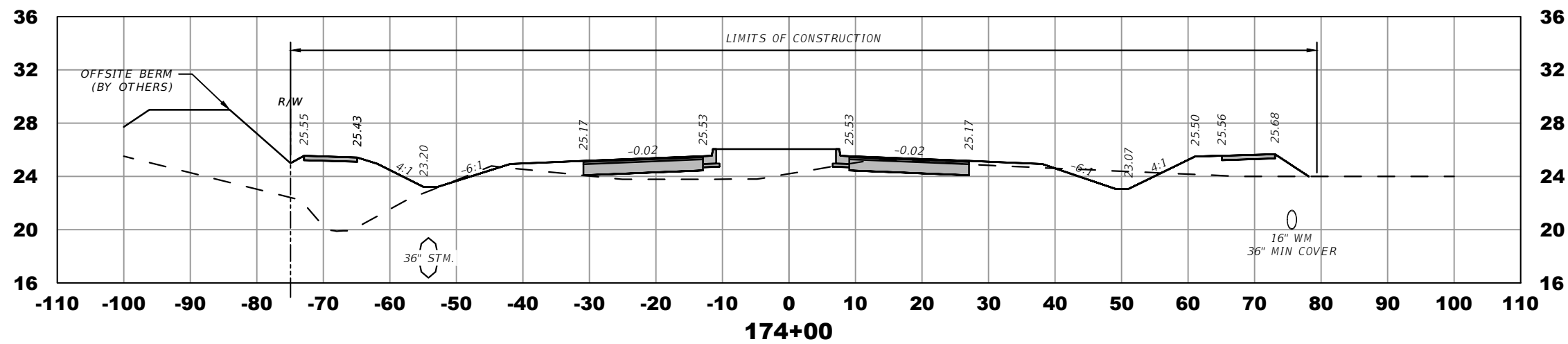
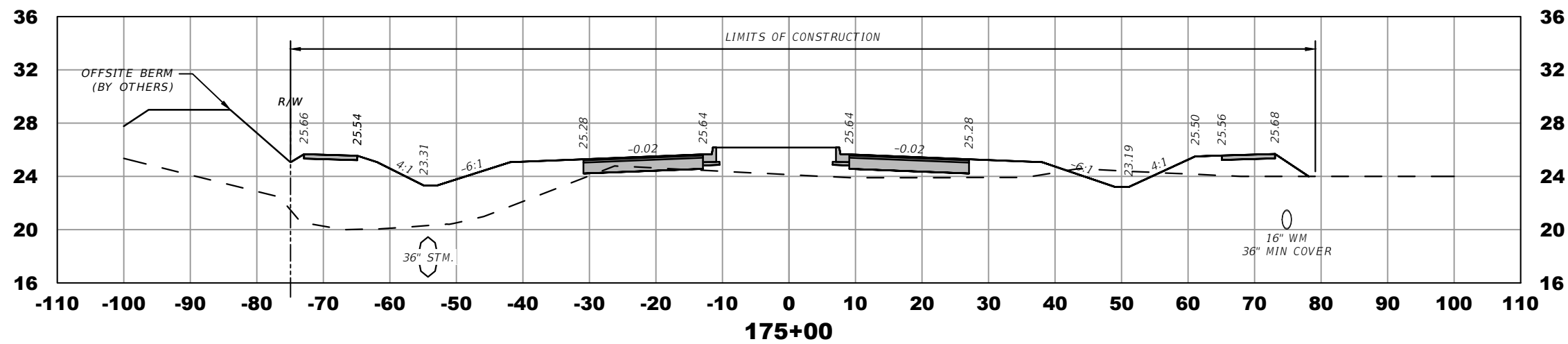
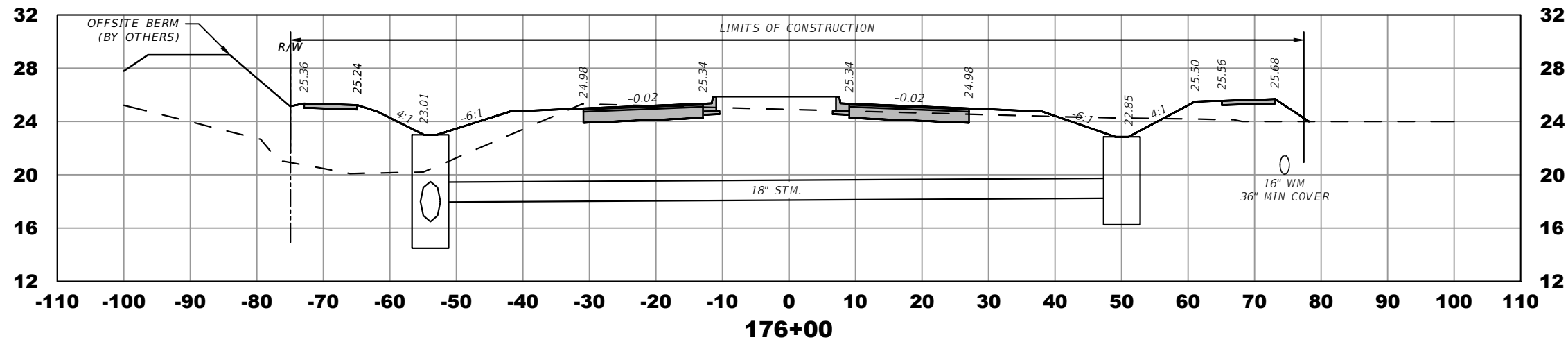
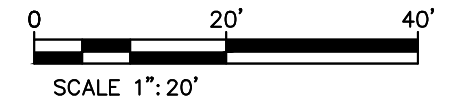
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

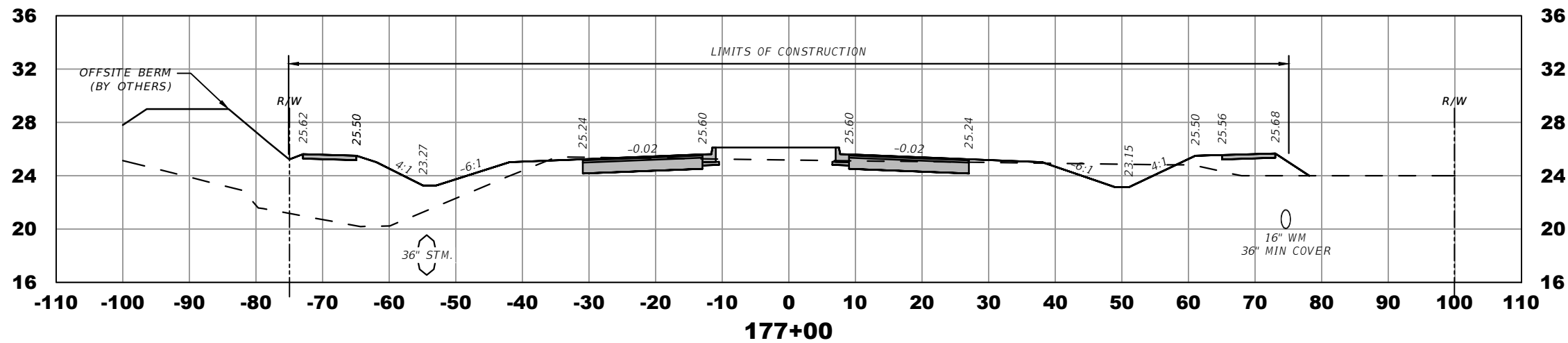
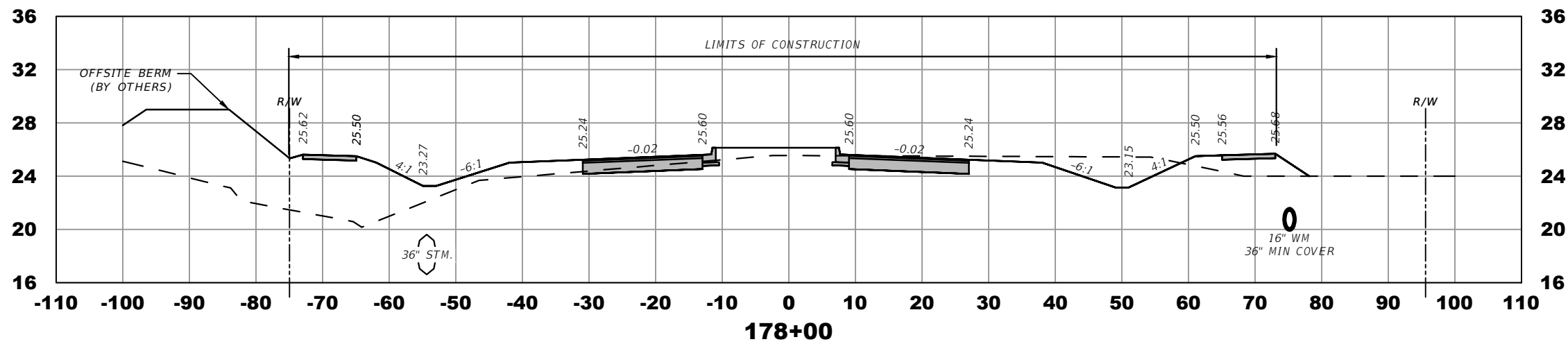
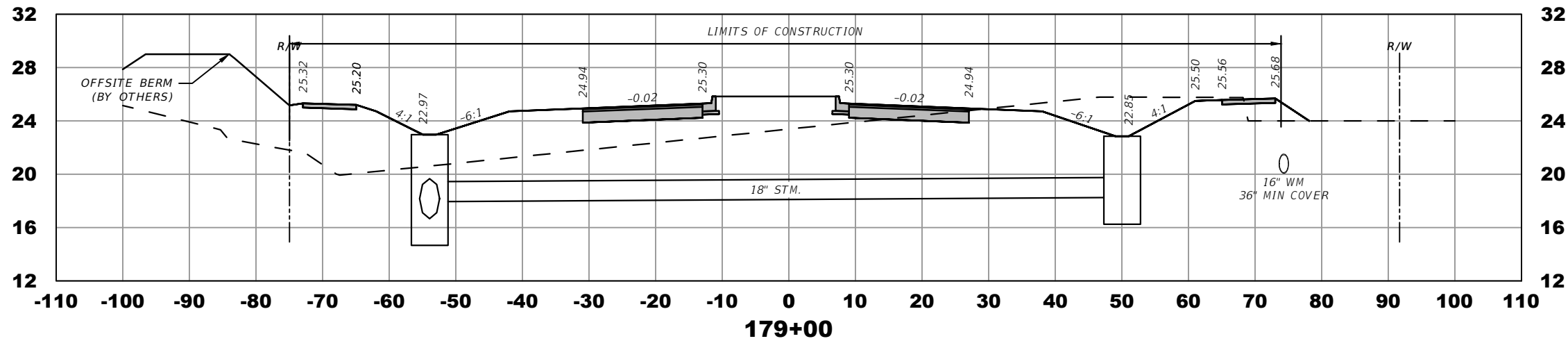
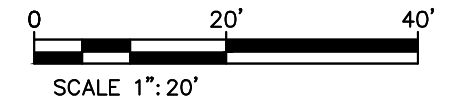
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

31

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

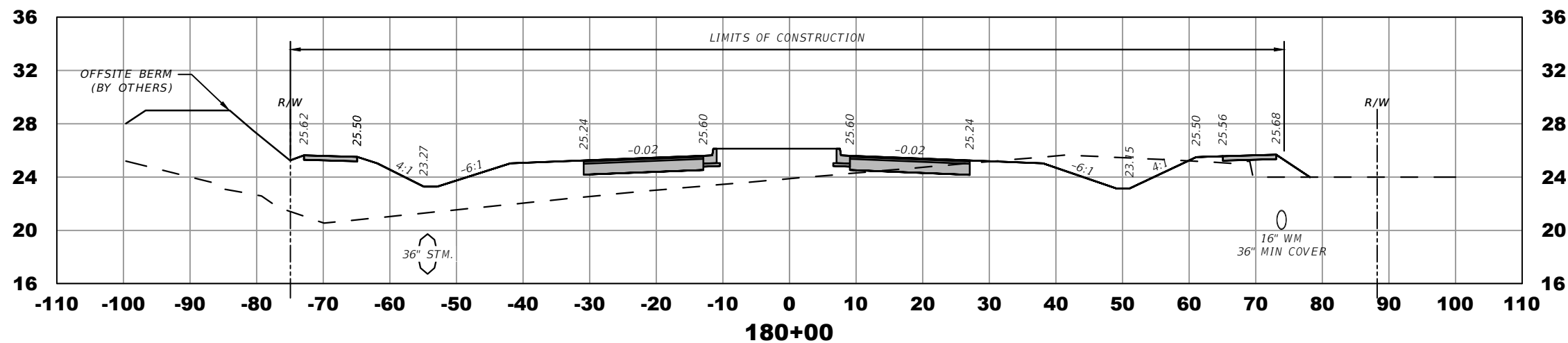
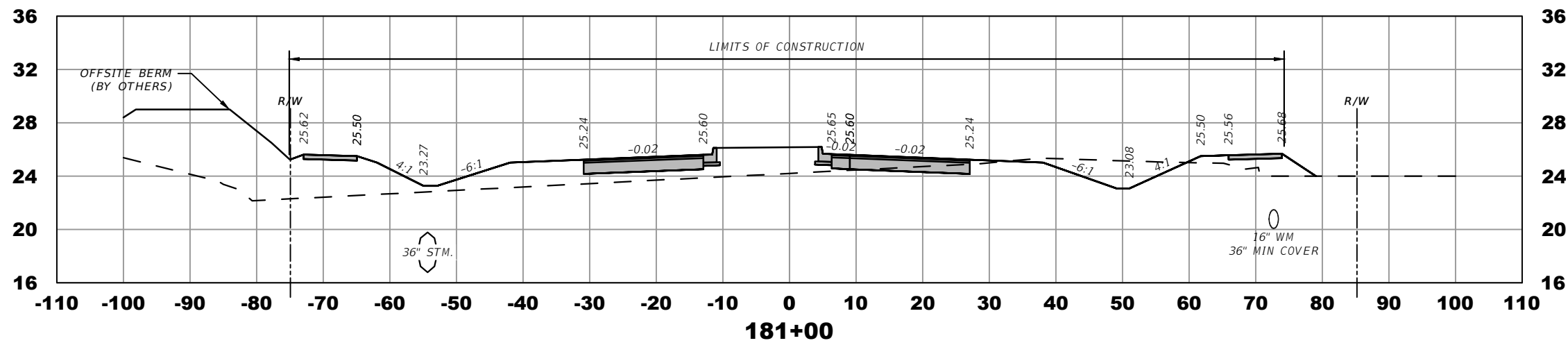
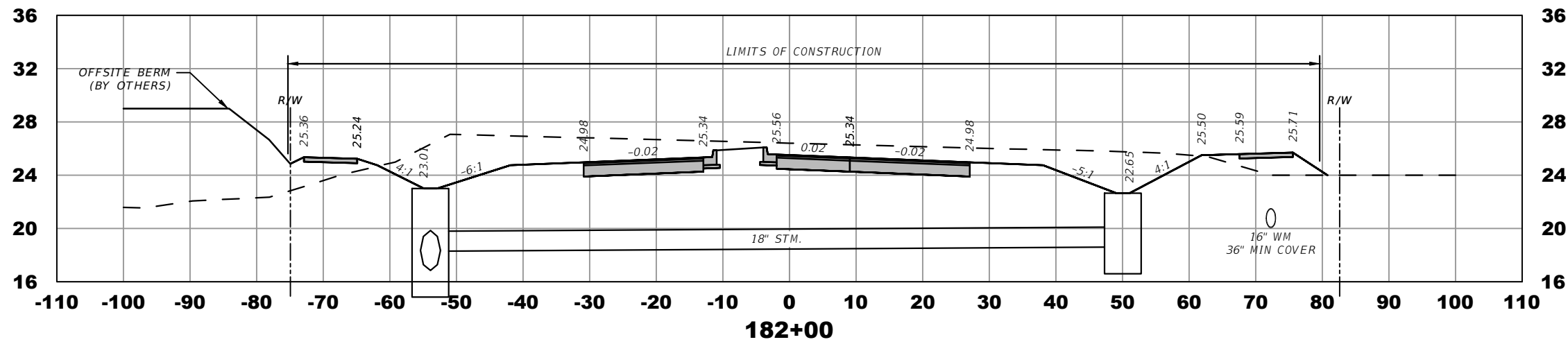
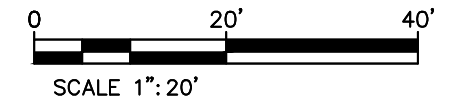
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

32

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

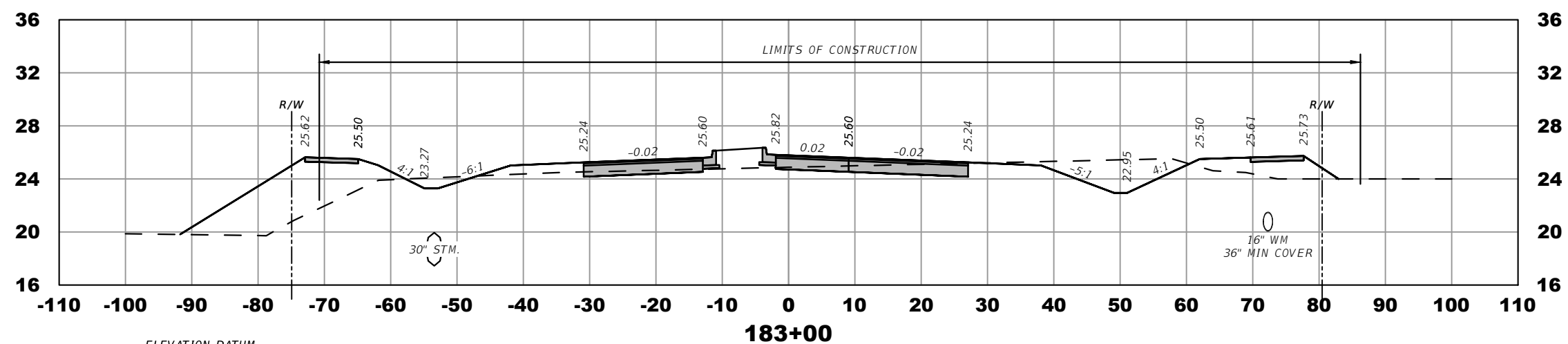
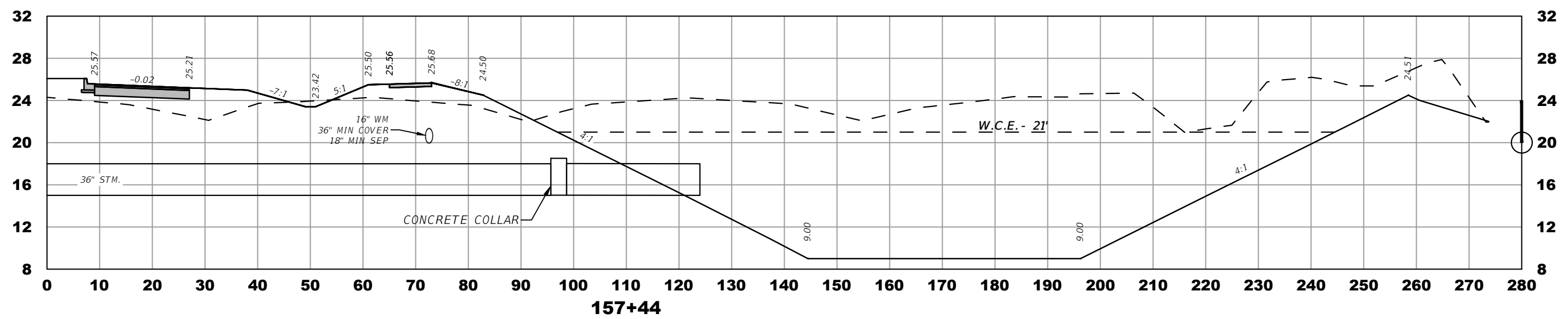
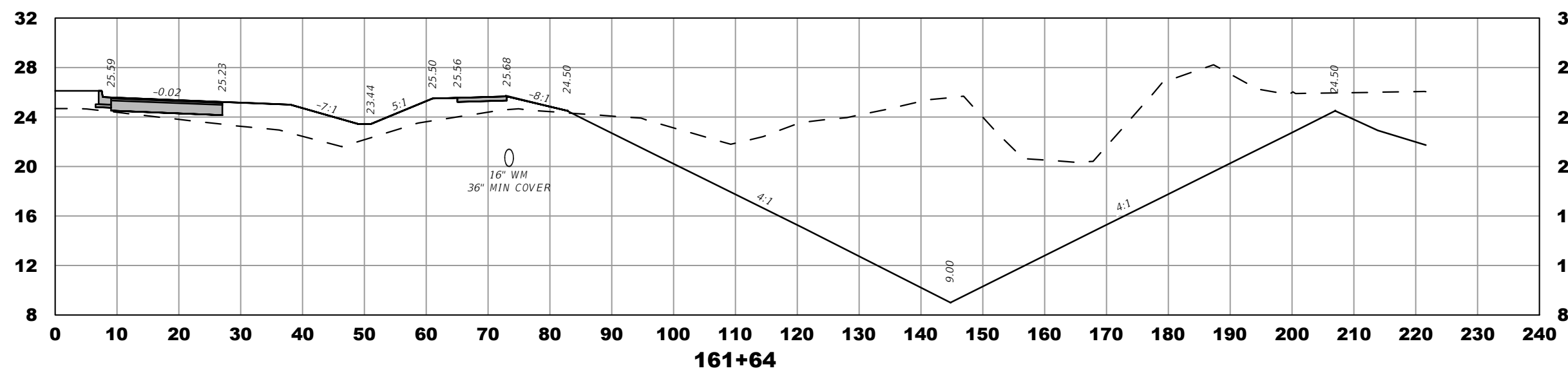
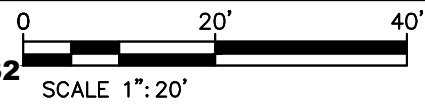
COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

CROSS SECTIONS

SHEET NO.

33

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		<i>CROSS SECTIONS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL				ST. LUCIE COUNTY	CROSTOWN PARKWAY SEGMENT 2A PH. 2		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Total Volume Table CY							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
147+00.00	0.14	284.78	0.00	0.00	0.00	0.00	0.00
148+00.00	8.74	314.95	16.45	1110.61	16.45	1110.61	-1094.16
149+00.00	3.49	230.27	22.65	1009.65	39.10	2120.26	-2081.17
150+00.00	5.87	211.51	17.33	818.11	56.43	2938.38	-2881.95
151+00.00	37.09	111.31	79.56	597.82	135.98	3536.19	-3400.21
152+00.00	42.79	119.88	147.93	428.12	283.91	3964.31	-3680.40
153+00.00	9.35	228.95	96.57	645.98	380.48	4610.29	-4229.82
154+00.00	3.89	196.24	24.53	787.38	405.00	5397.68	-4992.67
155+00.00	11.92	143.62	29.29	629.37	434.29	6027.05	-5592.76
156+00.00	6.89	179.38	34.85	598.15	469.14	6625.21	-6156.06
157+00.00	4.50	195.18	21.11	693.63	490.25	7318.84	-6828.59
157+44.00	7.46	163.70	9.75	292.42	500.00	7611.26	-7111.27
158+00.00	7.19	162.30	15.19	338.07	515.19	7949.34	-7434.14
159+00.00	12.28	156.22	36.05	589.85	551.25	8539.18	-7987.94
160+00.00	15.76	124.51	51.91	519.88	603.16	9059.07	-8455.91
161+00.00	20.56	175.48	67.25	555.55	670.41	9614.61	-8944.20
161+63.82	202.03	160.35	263.05	396.88	933.47	10011.49	-9078.02
162+00.00	449.73	154.32	436.72	210.85	1370.19	10222.34	-8852.15
163+00.00	843.77	66.75	2395.37	409.40	3765.56	10631.73	-6866.18
164+00.00	262.55	358.17	2048.73	786.88	5814.29	11418.62	-5604.33

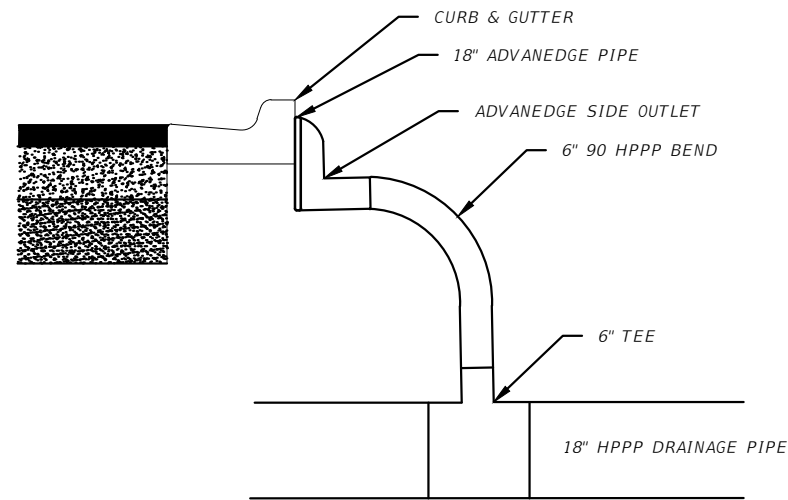
Total Volume Table CY							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
165+00.00	0.00	600.17	486.20	1774.70	6300.49	13193.32	-6892.83
165+70.33	0.00	615.47	0.00	1583.23	6300.49	14776.55	-8476.06
166+00.00	0.00	545.20	0.00	637.76	6300.49	15414.31	-9113.83
167+00.00	57.46	330.85	106.41	1622.31	6406.90	17036.63	-10629.73
168+00.00	58.62	331.37	214.97	1226.33	6621.87	18262.95	-11641.09
169+00.00	36.03	342.26	175.28	1247.47	6797.15	19510.42	-12713.27
170+00.00	60.60	285.95	178.95	1163.36	6976.09	20673.78	-13697.68
171+00.00	36.50	281.84	179.80	1051.46	7155.90	21725.24	-14569.34
172+00.00	28.80	263.51	120.91	1009.91	7276.81	22735.15	-15458.34
173+00.00	57.41	213.74	159.64	883.80	7436.45	23618.95	-16182.50
174+00.00	28.34	132.00	158.79	640.27	7595.24	24259.22	-16663.98
175+00.00	13.53	228.56	77.53	667.70	7672.77	24926.93	-17254.15
176+00.00	50.34	151.27	118.28	703.37	7791.05	25630.30	-17839.25
177+00.00	57.18	128.55	199.13	518.19	7990.18	26148.49	-18158.31
178+00.00	72.80	119.28	240.71	458.95	8230.89	26607.44	-18376.55
179+00.00	52.99	228.05	232.95	643.19	8463.84	27250.63	-18786.79
180+00.00	38.68	206.19	169.76	804.14	8633.60	28054.77	-19421.17
181+00.00	33.01	125.87	132.75	614.92	8766.35	28669.70	-19903.34
182+00.00	255.27	41.36	533.86	309.68	9300.21	28979.38	-19679.17
183+00.00	60.86	119.33	585.44	297.57	9885.65	29276.95	-19391.31

TOTAL VOLUME TABLE CY				
	CUT AREA	CUT VOL	FILL VOL	NET VOL
POND	251,085	76,673	864	73,809

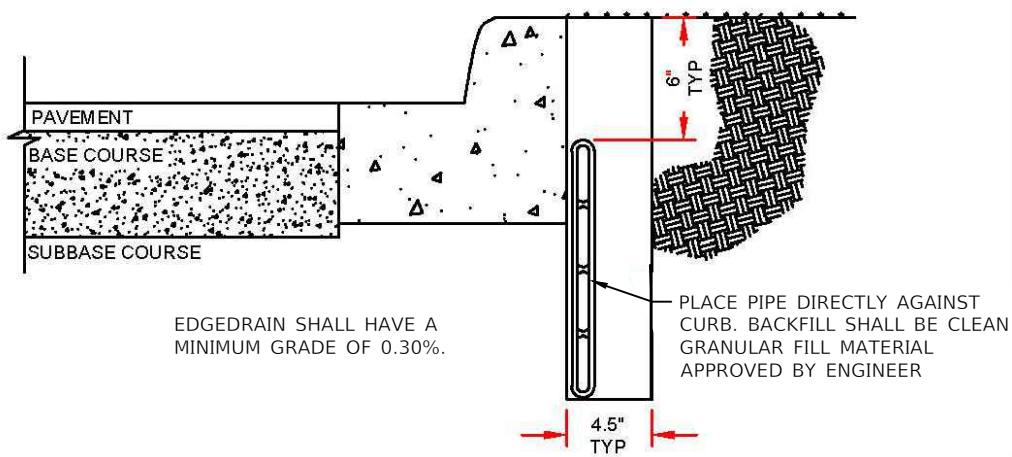
ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		<i>SECTIONS VOLUMES</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		35
8-29-22	REVISED PER CITY OF PSL				ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2		

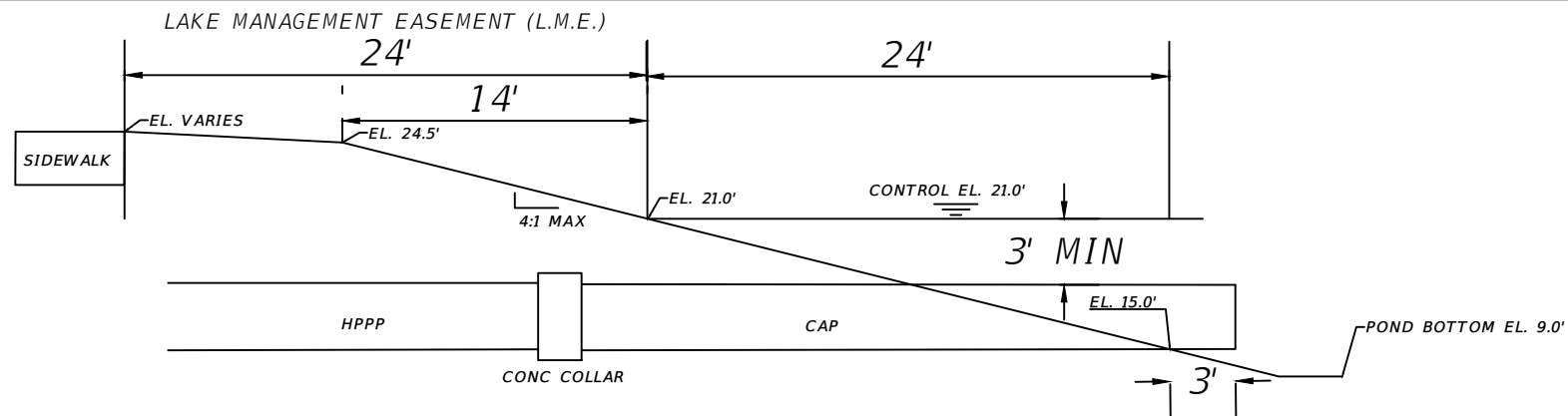


EDGE DRAIN CONNECTION DETAIL

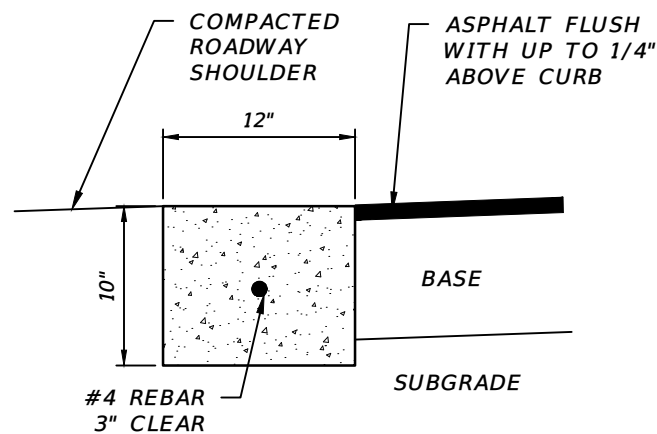


EDGE DRAIN DETAIL

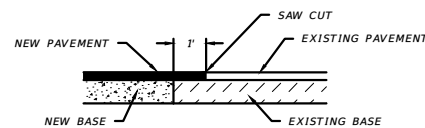
NOTE:
 CONTRACTOR TO VERIFY MATERIALS AND INSTALLATION METHODS OF EDGE DRAIN WITH MANUFACTURER AND CITY OF PSL. PRIOR TO INSTALLATION.



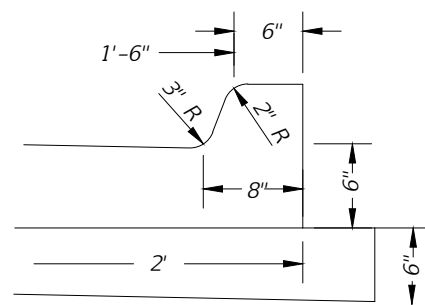
TYPICAL LAKE SECTION



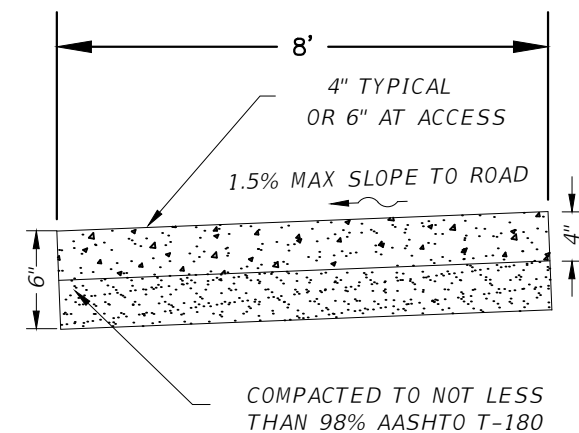
HEADER CURB DETAIL



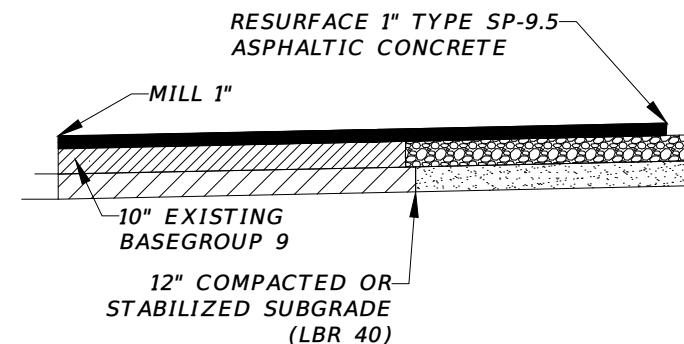
SAW CUT DETAIL



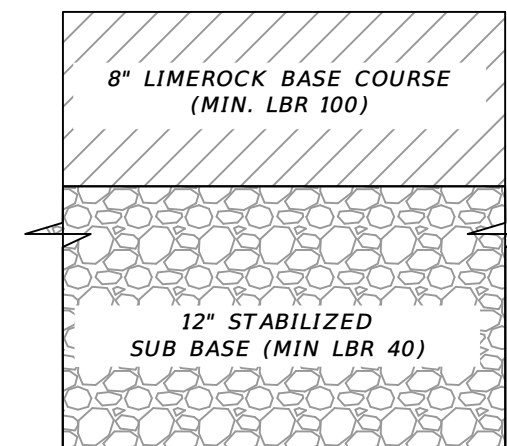
TYPE "F" CURB DETAIL



SIDEWALK DETAIL



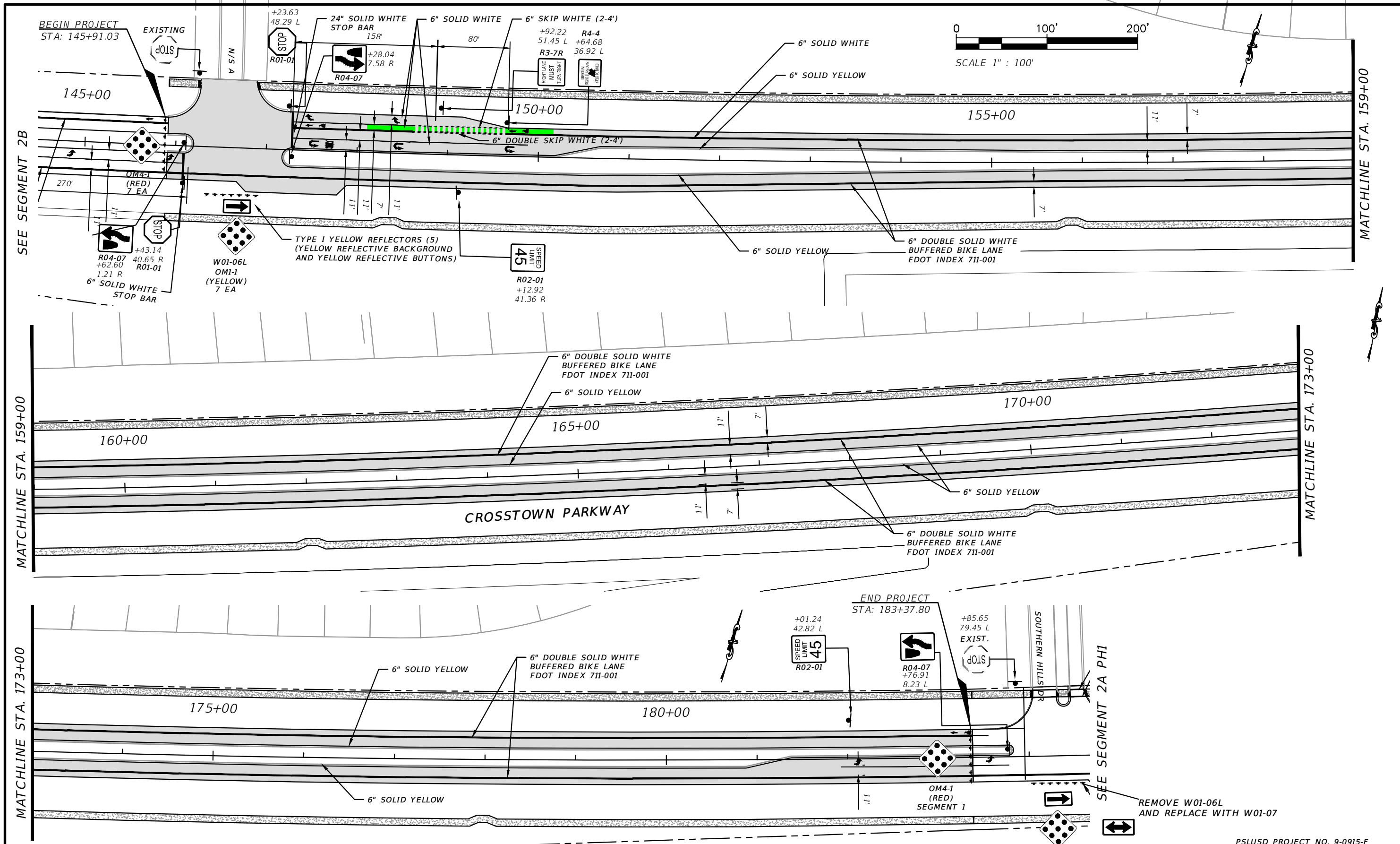
MILL AND RESURFACE DETAIL



STABILIZED ACCESS

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS		REVISIONS		MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		SHEET NO. 50
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.	
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2	DETAILS	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
 1172 SW 30TH STREET, SUITE 500,
 PALM CITY, FLORIDA, 34990
 C.A. 29013
 SHAUN G. MACKENZIE P.E.
 P.E. NO. 61751

CITY OF PORT ST. LUCIE
 121 SW PORT ST. LUCIE BLVD
 PORT ST. LUCIE BLVD, FL 34984

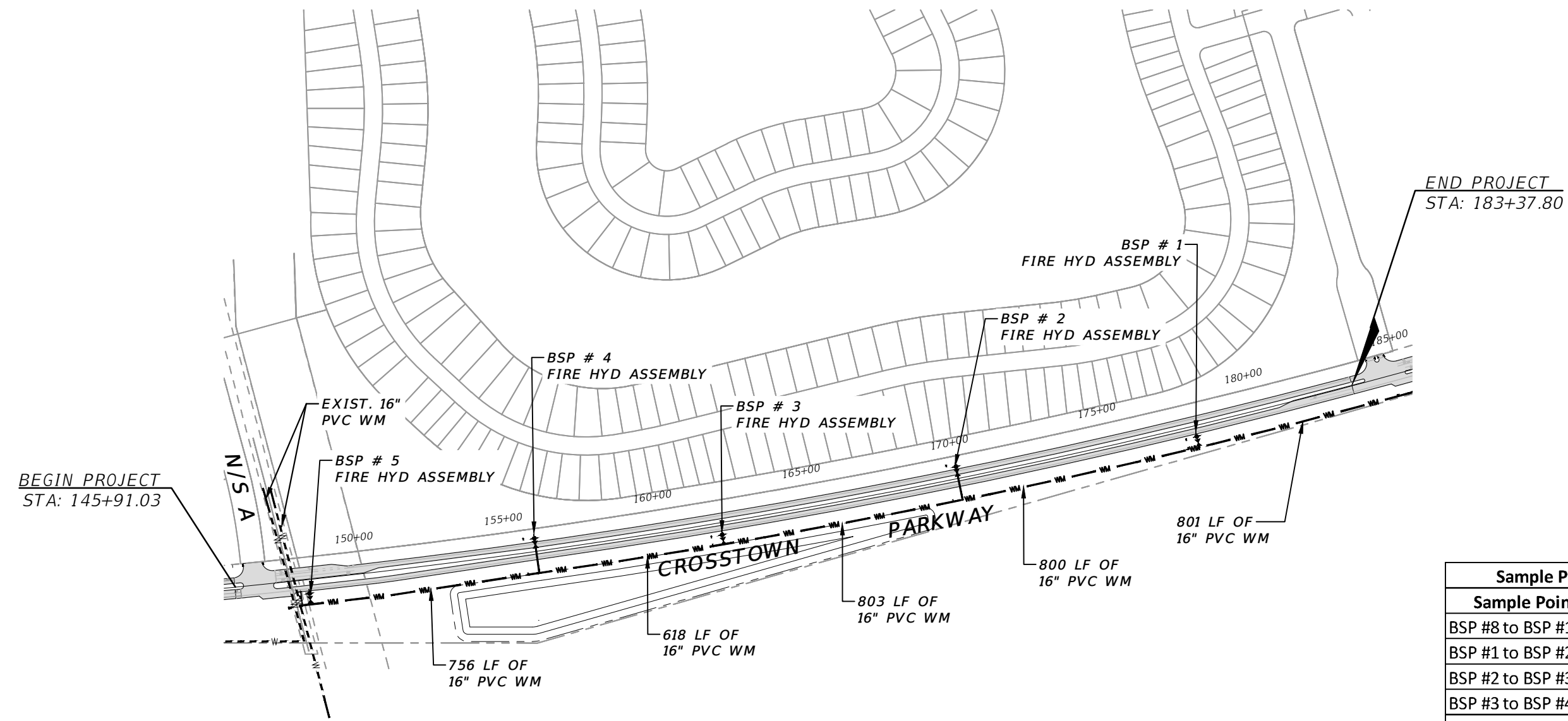
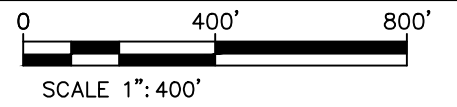
COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

PSLUSD PROJECT NO. 9-0915-F

PAVEMENT MARKING AND SIGNAGE

SHEET NO.
52

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



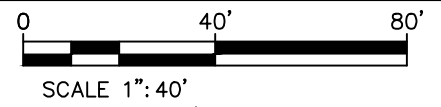
Sample Point Table	
Sample Points	Distance
BSP #8 to BSP #1	801'
BSP #1 to BSP #2	800'
BSP #2 to BSP #3	803'
BSP #3 to BSP #4	618'
BSP #4 to BSP #5	756'

ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		OVERALL UTILITY	SHEET NO. 54
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

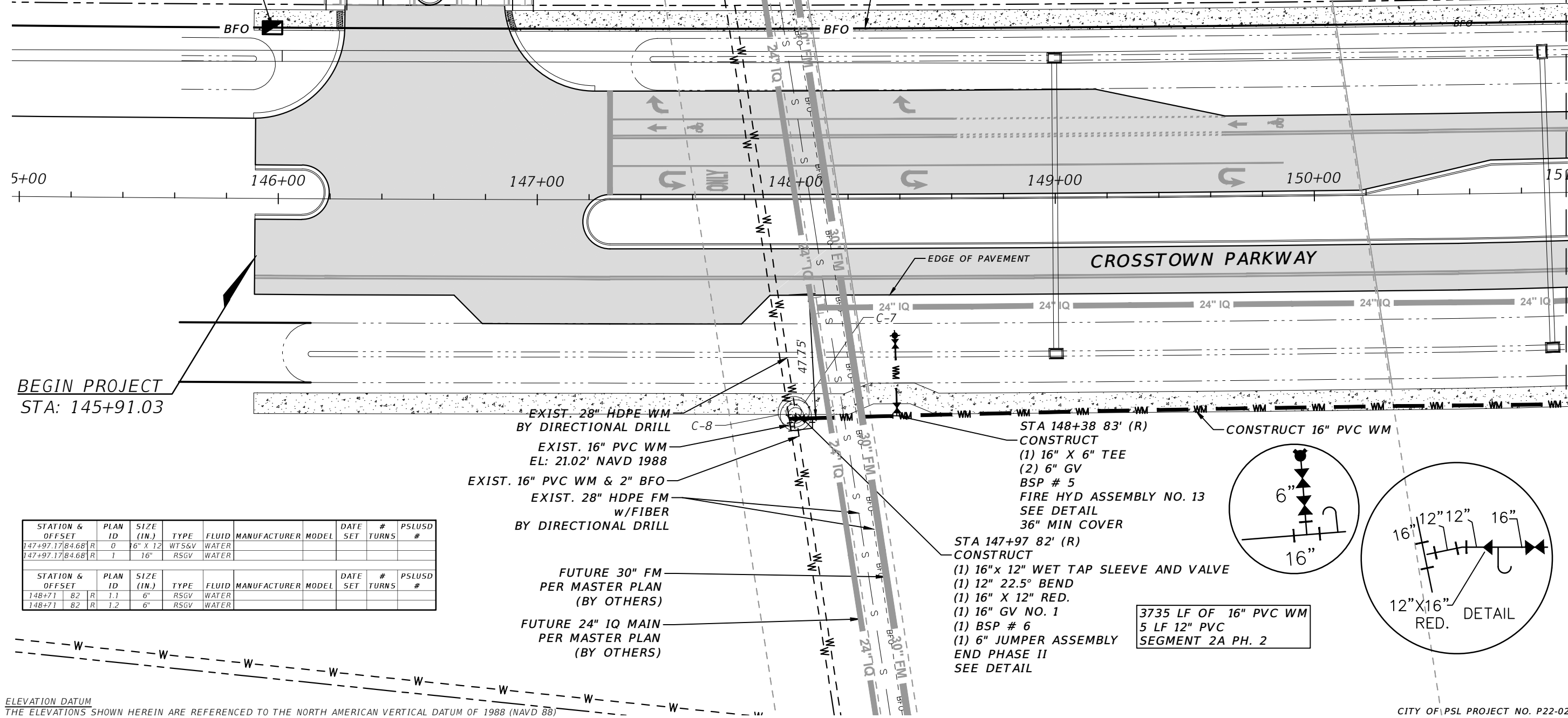
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Conflict	Separation	Top of FM	Bottom of WM	WM + Thck	Top of Pipe	Final Grade	Cover
Conflict C-7	19.67'	0.17	19.84	17.4	21.29	24.29	3
Conflict	Separation	Top of WM	Bottom of WM	WM + Thck	Top of Pipe	Final Grade	Cover
Conflict C-8	19.72'	0.12	19.84	17.4	21.29	24.29	3

STA 145+97 66' (L)
 INSTALL FO PER CPSL
 FO STDS APP C
 (1) FO SPLICE BOX (24" X 36")

INSTALL FO PER CPSL FO STDS APP C
 (2) 2" CONDUIT (1 FO CABLE & 1 SPARE W/ TRACER WIRE)
 CABLE ROUTE MARKERS AT 500' SPACING

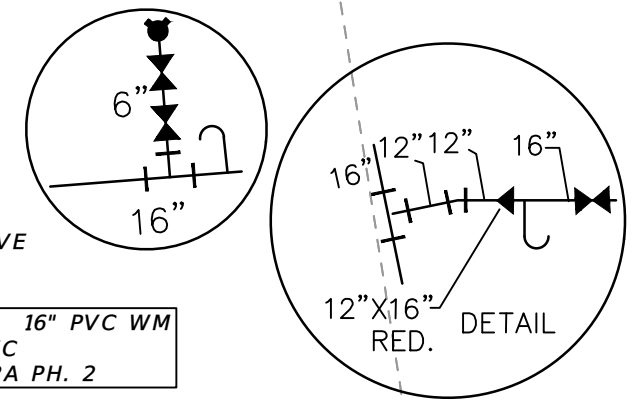


BEGIN PROJECT
 STA: 145+91.03

STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
147+97.17/84.68	R 0	16" X 12"	WTS&V	WATER					
147+97.17/84.68	R 1	16"	RSGV	WATER					

STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
148+71	B2 R	1.1	6"	RSGV	WATER				
148+71	B2 R	1.2	6"	RSGV	WATER				

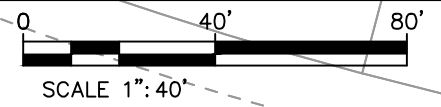
ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



3735 LF OF 16" PVC WM
 5 LF 12" PVC
 SEGMENT 2A PH. 2

MATCHLINE STA. 186+60
 THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE, FL 34984		UTILITY ADJUSTMENT	SHEET NO. 39
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

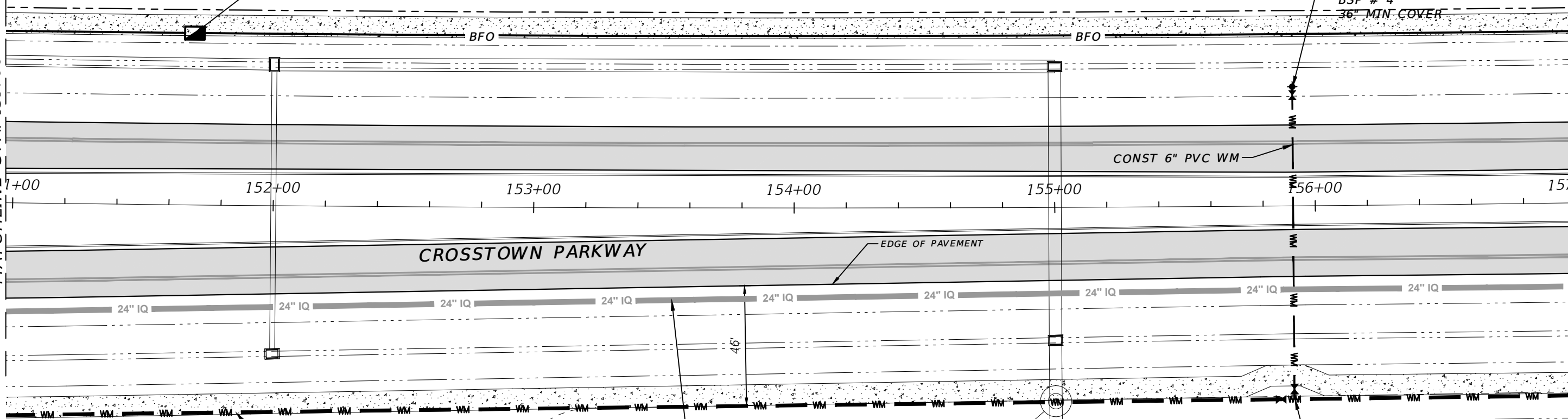


MATCHLINE STA. 151+00

MATCHLINE STA. 157+00

STA 151+69 66' (L)
 INSTALL FO PER CPSL FO STDS APP C
 (1) FO PULL BOX (17" X 30")
 (2) 2" CONDUIT (1 FO CABLE & 1 SPARE W/ TRACER WIRE)
 CABLE ROUTE MARKERS AT 500' SPACING

STA 155+92 46' (L)
 CONSTRUCT
 (1) 6" GV
 FIRE HYD ASSEMBLY NO. 12
 BSP # 4
 36" MIN COVER



CONSTRUCT 16" PVC WM

FUTURE 24" IQ MAIN
 PER MASTER PLAN
 (BY OTHERS)

C-4

STA 155+92 70' (R)
 CONSTRUCT
 (1) 16" GV NO. 2
 (1) 16" X 6" TEE
 (1) 6" GV
 EE DETAIL

STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
155+91.57/74.14 R	2	16"	RSGV	WATER					
155+91.57/74.14 R	2.1	6"	RSGV	WATER					
155+92 46' L	2.2	6"	RSGV	WATER					

Conflict Separation	Top of STM	Bottom of WM	WM + Thck	Top of Pipe	Final Grade	Cover
C-4	1.50	19.31	20.81	17.40	22.26	25.59 3.33

ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
 1172 SW 30TH STREET, SUITE 500,
 PALM CITY, FLORIDA, 34990
 C.A. 29013
 SHAUN G. MACKENZIE P.E.
 P.E. NO. 61751

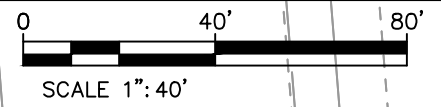
CITY OF PORT ST. LUCIE
 121 SW PORT ST. LUCIE BLVD
 PORT ST. LUCIE BLVD, FL 34984

COUNTY ROAD NO.
 ST. LUCIE COUNTY CROSSTOWN PARKWAY
 SEGMENT 2A PH. 2

UTILITY ADJUSTMENT

SHEET NO.
40

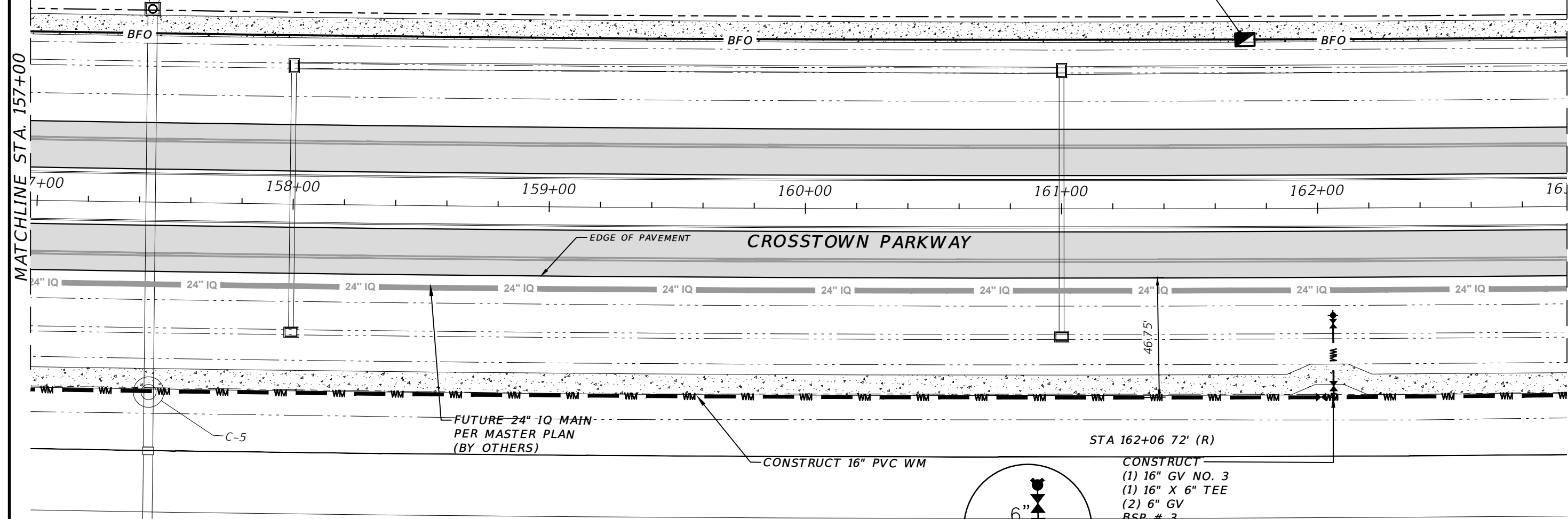
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



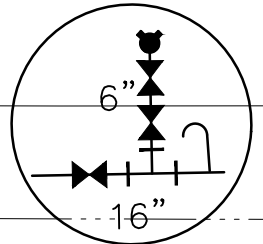
STA 161+72 66' (L)
 INSTALL FO PER CPSL FO STDS APP C
 (1) FO SPLICE BOX (24" X 36")
 (2) 2" CONDUIT (1 FO CABLE & 1 SPARE W/ TRACER WIRE)
 CABLE ROUTE MARKERS AT 500' SPACING

MATCHLINE STA. 157+00

MATCHLINE STA. 163+00



STA 162+06 72' (R)
 CONSTRUCT
 (1) 16" GV NO. 3
 (1) 16" X 6" TEE
 (2) 6" GV
 BSP # 3
 (1) FIRE HYD ASSEMBLY NO. 11
 36" MIN COVER
 SEE DETAIL



Conflict	Separation	Top of STM	Bottom of WM	WM + Thck	Top of Pipe	Final Grade	Cover
C-5	1.70	18.23	19.93	17.40	21.38	25.59	4.21

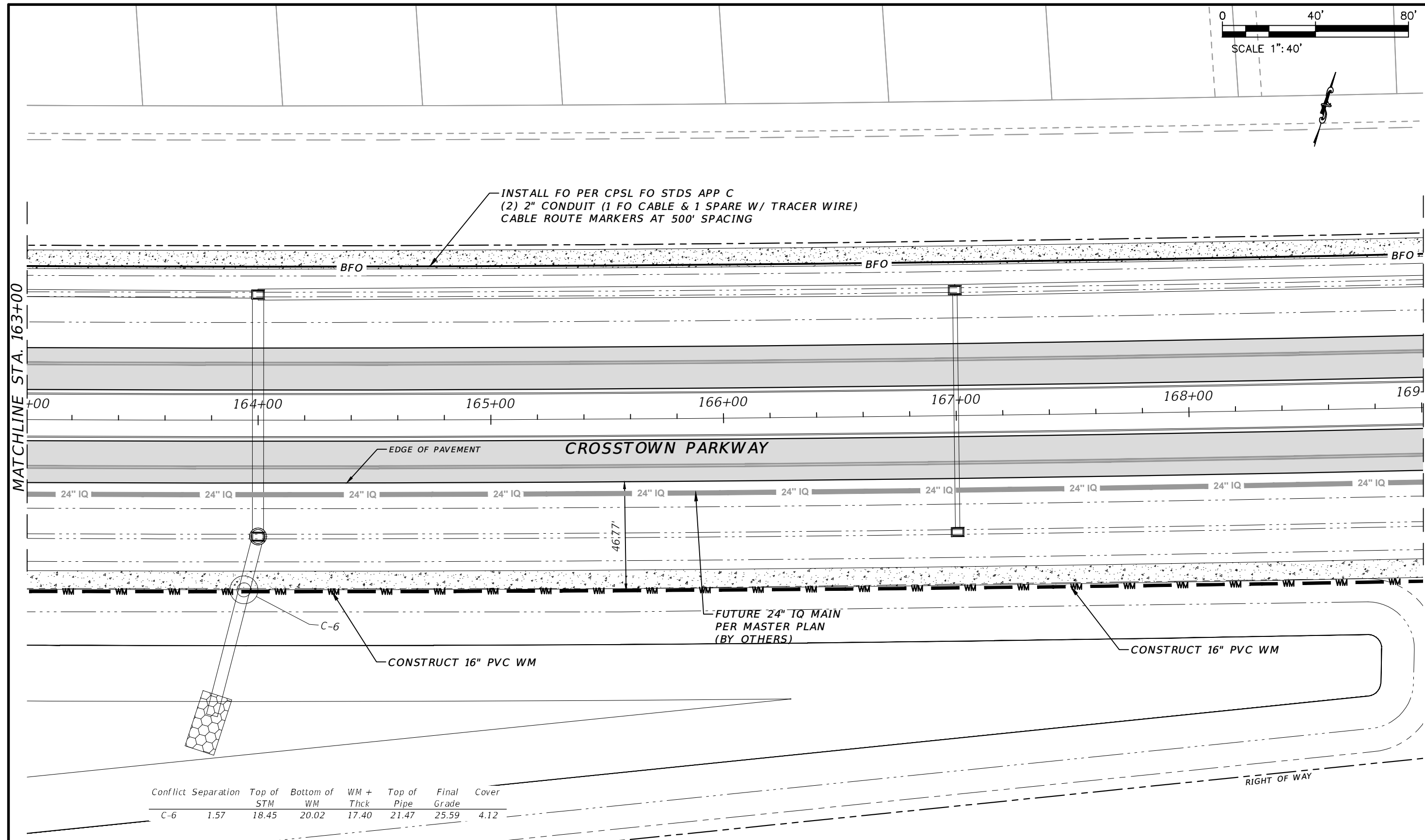
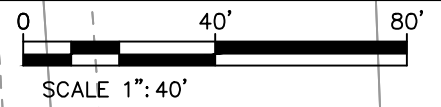
STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
162+05.92/73.89 R	3	16"	RSGV	WATER					
162+05.92/73.89 R	3.1	6"	RSGV	WATER					
162+05.82/42.1 R	3.2	6"	RSGV	WATER					

ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		UTILITY ADJUSTMENT	SHEET NO. 41
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

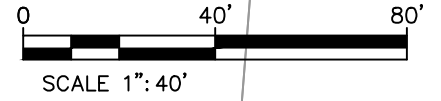


Conflict	Separation	Top of STM	Bottom of WM	WM + Thck	Top of Pipe	Final Grade	Cover
C-6	1.57	18.45	20.02	17.40	21.47	25.59	4.12

ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

REVISIONS DATE DESCRIPTION DATE DESCRIPTION 8-29-22 REVISED PER CITY OF PSL		MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		UTILITY ADJUSTMENT	SHEET NO. 42
			COUNTY ROAD NO. ST. LUCIE COUNTY CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

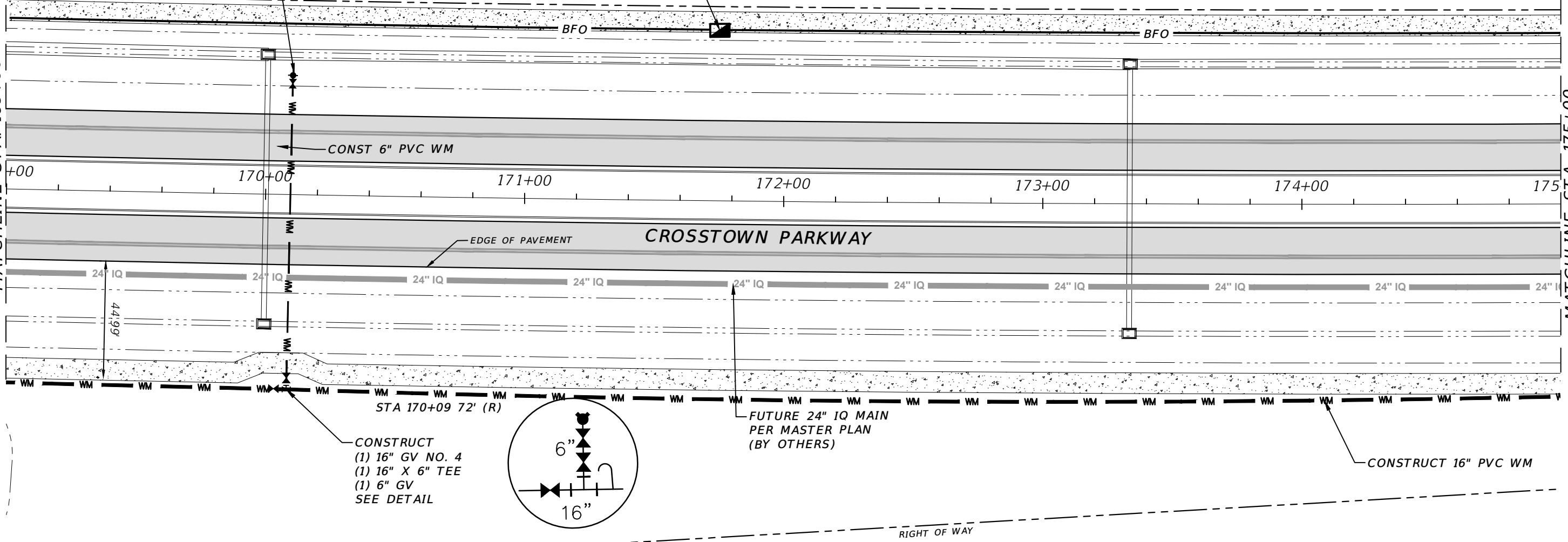


MATCHLINE STA. 169+00

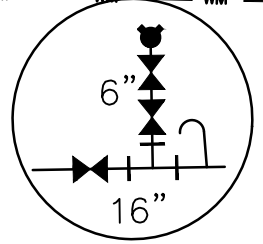
MATCHLINE STA. 175+00

STA 170+04 46' (L)
 CONSTRUCT
 (1) 6" GV
 (1) FIRE HYD ASSEMBLY NO. 10
 BSP # 2
 36" MIN COVER

STA 171+75 66' (L)
 INSTALL FO PER CPSL FO STDS APP C
 (1) FO PULL BOX (17" X 30")
 (2) 2" CONDUIT (1 FO CABLE & 1 SPARE W/ TRACER WIRE)
 CABLE ROUTE MARKERS AT 500' SPACING



CONSTRUCT
 (1) 16" GV NO. 4
 (1) 16" X 6" TEE
 (1) 6" GV
 SEE DETAIL



STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
170+09.26/75.17	R 4	16"	RSGV	WATER					
170+09.26/75.17	R 4.1	6"	RSGV	WATER					
170+09.78/46.6	L 4.2	6"	RSGV	WATER					

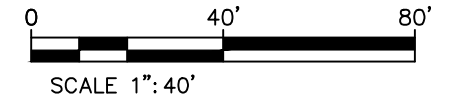
ELEVATION DATUM
 THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		<i>UTILITY ADJUSTMENT</i>	SHEET NO. 43
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL				ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2		

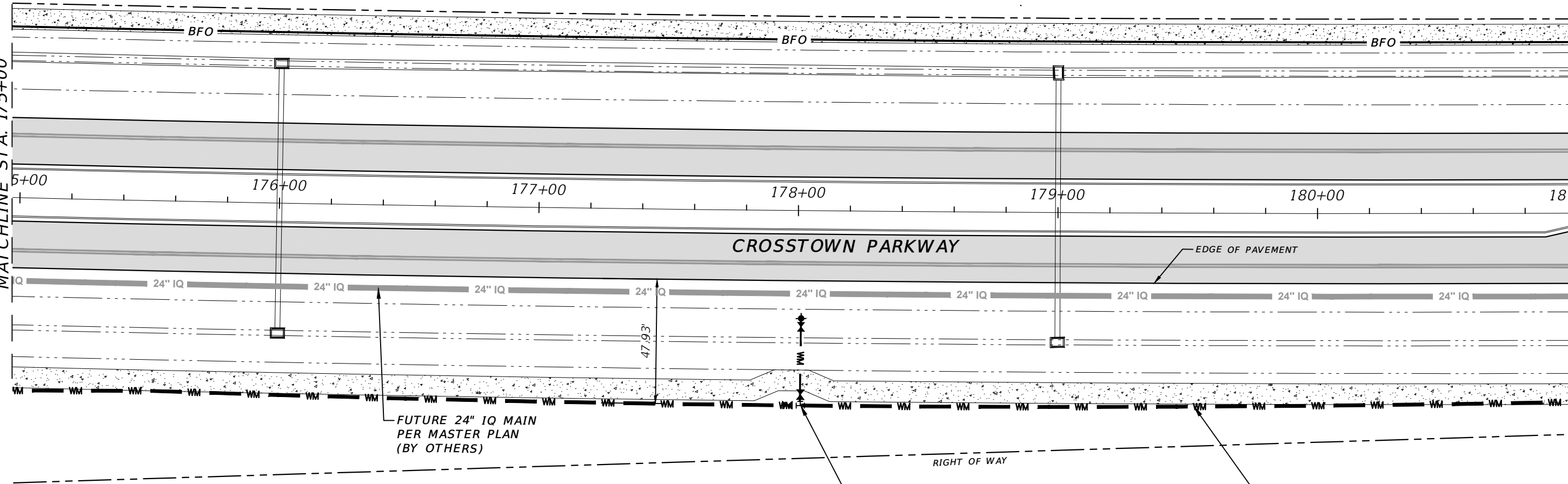
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
178+01.42/75.19	R 5	16"	R5GV	WATER					
178+01.42/75.19	R 5.1	6"	R5GV	WATER					
178+01.1/41.2	R 5.2	6"	R5GV	WATER					



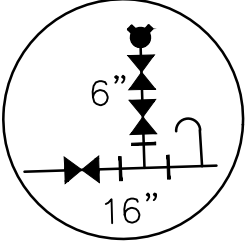
MATCHLINE STA. 175+00

MATCHLINE STA. 181+00



FUTURE 24" IQ MAIN
PER MASTER PLAN
(BY OTHERS)

- STA 178+01 73' (R)
CONSTRUCT
(1) 16" GV NO. 5
(1) 16" X 6" TEE
(2) 6" GV
BSP # 1
(1) FIRE HYD ASSEMBLY NO. 9
36" MIN COVER
SEE DETAIL

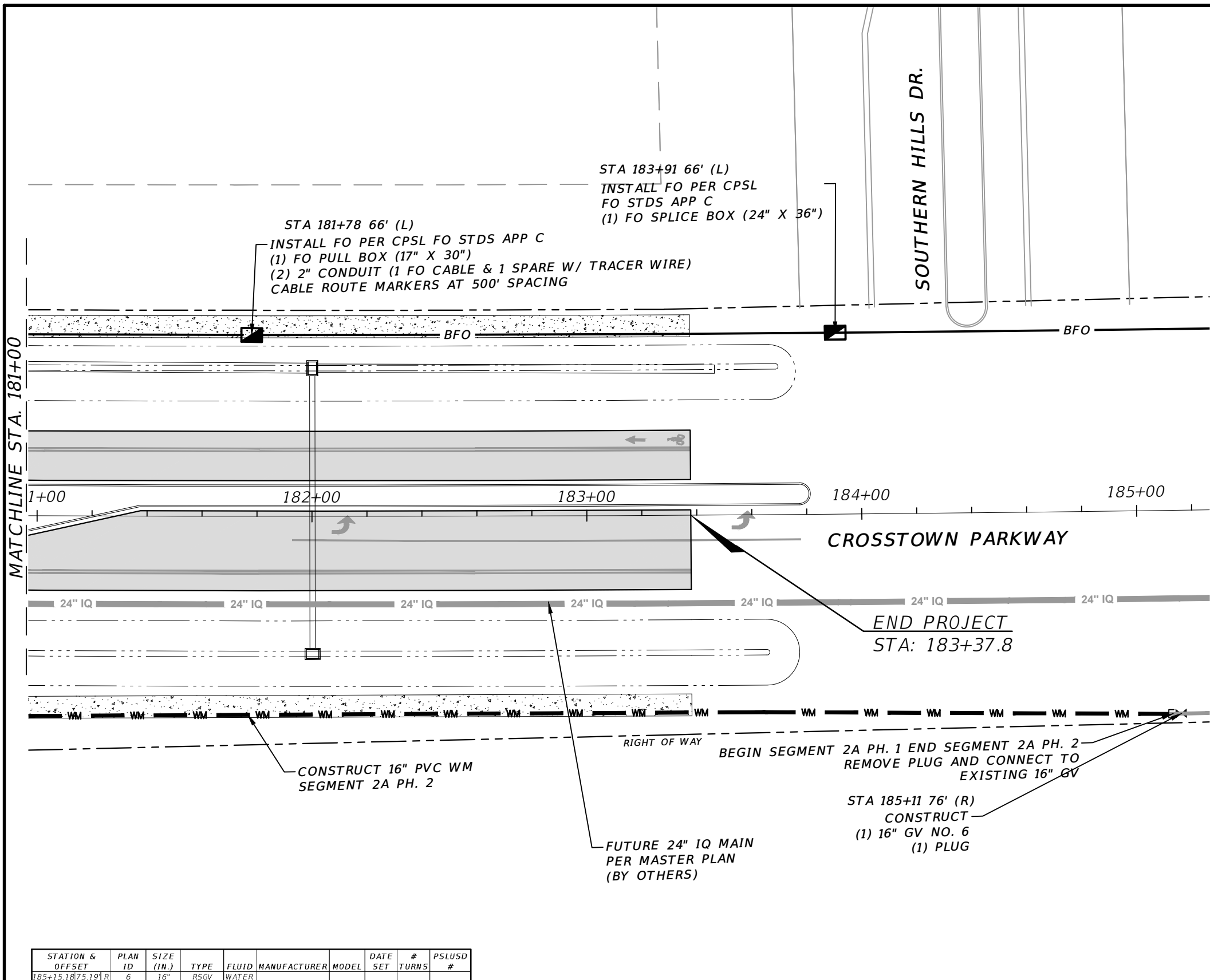
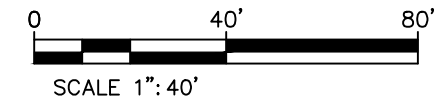


ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-F

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		UTILITY ADJUSTMENT	SHEET NO. 44
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL			ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. 181+00

STATION & OFFSET	PLAN ID	SIZE (IN.)	TYPE	FLUID	MANUFACTURER	MODEL	DATE SET	# TURNS	PSLUSD #
185+15.18/75.19 R	6	16"	RSGV	WATER					

ELEVATION DATUM
THE ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

END PROJECT
STA: 183+37.8

BEGIN SEGMENT 2A PH. 1 END SEGMENT 2A PH. 2
REMOVE PLUG AND CONNECT TO EXISTING 16" GV

STA 185+11 76' (R)
CONSTRUCT
(1) 16" GV NO. 6
(1) PLUG

FUTURE 24" IQ MAIN
PER MASTER PLAN
(BY OTHERS)

CONSTRUCT 16" PVC WM
SEGMENT 2A PH. 2

REVISIONS				MACKENZIE ENGINEERING & PLANNING, INC. 1172 SW 30TH STREET, SUITE 500, PALM CITY, FLORIDA, 34990 C.A. 29013 SHAUN G. MACKENZIE P.E. P.E. NO. 61751	CITY OF PORT ST. LUCIE 121 SW PORT ST. LUCIE BLVD PORT ST. LUCIE BLVD, FL 34984		UTILITY ADJUSTMENT	SHEET NO. 45
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	ROAD NO.		
8-29-22	REVISED PER CITY OF PSL				ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MINIMUM SEPARATION BETWEEN PSLUSD FACILITIES AND OTHER UTILITIES

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2), (3), VACUUM SANITARY SERVICE, STORM SEWER, STORM SEWER FORCE MAIN	 10' MINIMUM	 18" MINIMUM	 6' MINIMUM
ALL OTHER FACILITIES, INCLUDING BUT NOT LIMITED TO: TELEPHONE, CABLE TV, POWER, ETC.	 5' MINIMUM	 18" MINIMUM	 3' MINIMUM
ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM	10' MINIMUM

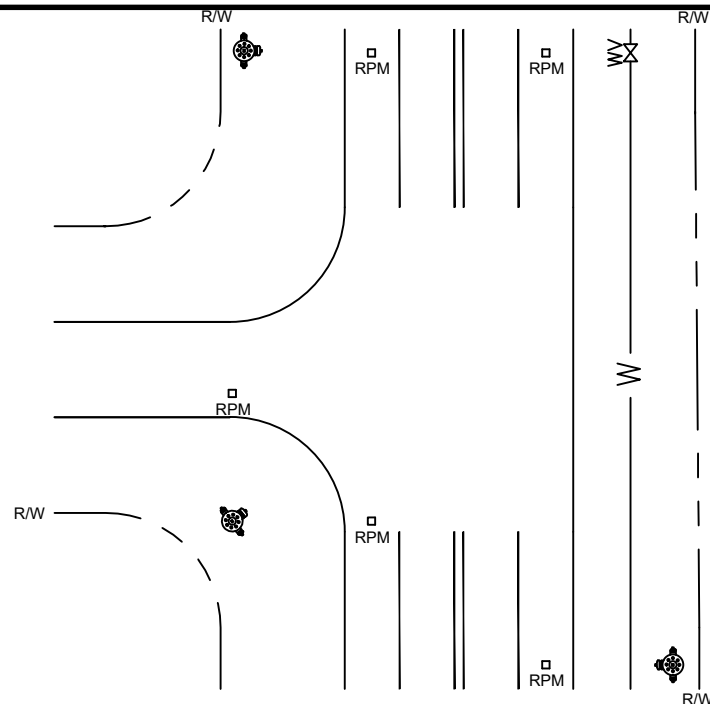
- (1) WATER MAIN SHOULD CROSS OVER OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 18".
- (2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (3) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (4) A PSLUSD FACILITY INCLUDES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

STANDARD SEPARATION REQUIREMENTS G-01

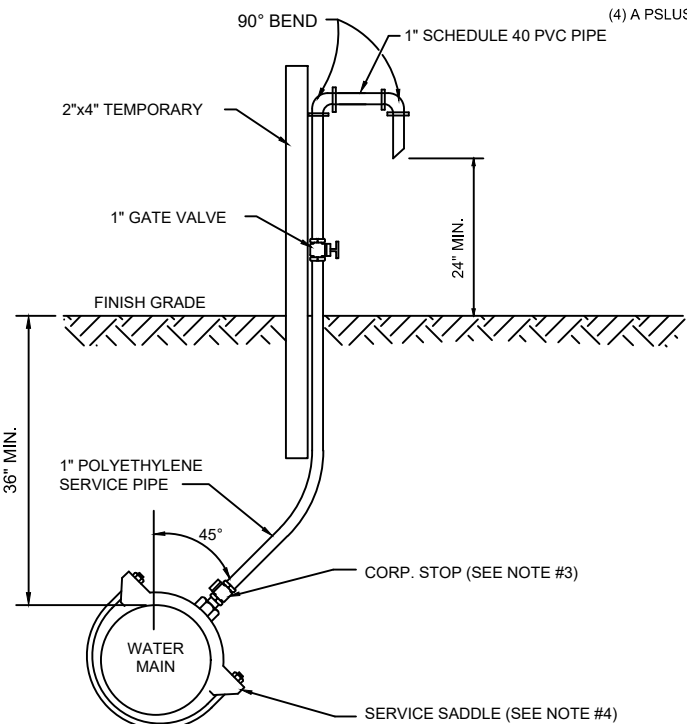
SCALE: N.T.S.
DATE: 2019

FIRE HYDRANT REFLECTIVE PAVEMENT MARKER PLACEMENT GUIDELINE W-08

SCALE: N.T.S.
DATE: 2019



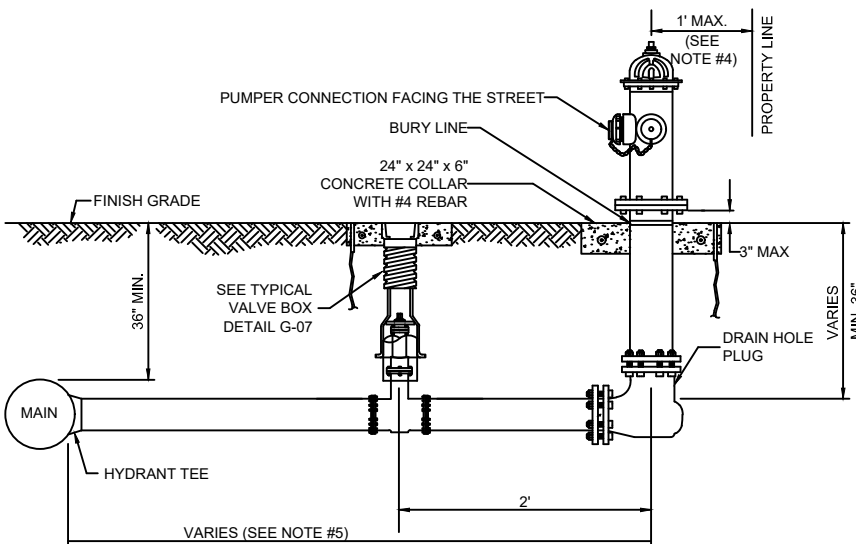
- NOTES:**
1. MARKER COLOR IS BLUE. PLACE IN CENTER OF THE LANE CLOSEST TO THE HYDRANT.
 2. IF HYDRANT IS LOCATED WITHIN THE RADIUS OF AN INTERSECTION PLACE A MARKER ON EACH ROADWAY IN THE CENTER LANES CLOSEST TO THE HYDRANT.
 3. MARKER IS PLACED PERPENDICULAR (90 DEGREES) TO THE HYDRANT.



- NOTES:**
1. 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.
 2. THE EXCAVATED HOLE FOR THIS INSTALLATION SHALL BE BACKFILLED TO FINISHED GRADE PRIOR TO DISCHARGING ANY WATER ON THE GROUND.
 3. AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED, THE CONTRACTOR SHALL TURN CORPORATION STOP OFF, REMOVE TUBING AND PLUG CORPORATION STOP WITH BRASS PLUG/CAP.
 4. NO DIRECT TAPS SHALL BE PERMITTED.

WATER SAMPLING POINT W-05

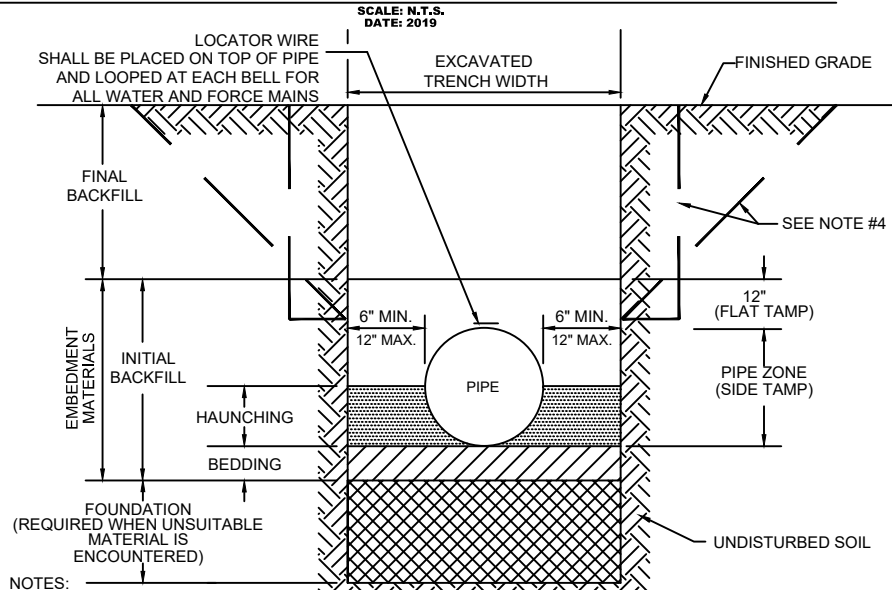
SCALE: N.T.S.
DATE: 2019



- NOTES:**
1. HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600. THE HYDRANTS SHALL BE PAINTED BY THE MANUFACTURER WITH 2 COATS (MIN.).
 2. VERTICAL BENDS MAY BE NECESSARY TO OBTAIN COVER UNDER SWALES OR AT HYDRANT LOCATION. VERTICAL BENDS OR OFFSETS ARE INCLUDED IN HYDRANT ASSEMBLY. ALL BENDS MUST BE RESTRAINED.
 3. CONNECTOR PIPE AND ANY REQUIRED VERTICAL BENDS SHALL HAVE AN ANCHORING FEATURE ON BOTH ENDS SO THAT WHEN USED WITH M.J. SPLIT GLANDS, A RESTRAINED JOINT IS PROVIDED.
 4. WHEN INSTALLED WITH SIDEWALK OR CURB, PROVIDE MIN. 2 FOOT CLEARANCE TO ANY PORTION OF THE HYDRANT, UTILIZING THE SIDE LOT EASEMENT IF NECESSARY.
 5. A GATE VALVE SHALL BE INSTALLED WITHIN 2 FEET OF THE FIRE HYDRANT. IF DISTANCE FROM THE WATER MAIN TO THE FIRE HYDRANT IS GREATER THAN 20 FEET, A SECOND GATE VALVE SHALL BE INSTALLED WITHIN 2 FEET OF THE MAIN.
 6. ANY DEVIATIONS FROM THE CRITERIA ABOVE REQUIRE A WRITTEN RECOMMENDATION FROM THE ENGINEER-OF-RECORD AND WRITTEN APPROVAL BY PSLUSD.

FIRE HYDRANT ASSEMBLY W-06

SCALE: N.T.S.
DATE: 2019



- NOTES:**
1. FOR TRENCHES REQUIRING SHEETING, SHORING, STAY BRACING, TRENCH JACKS OR TRENCH BOX, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SUPPORTS.
 2. IF THE MAXIMUM TRENCH WIDTH MUST BE EXCEEDED, THE AREA OUTSIDE OF THE MAXIMUM EMBEDMENT SHALL BE COMPACTED TO FINAL BACKFILL REQUIREMENTS. IF THE PIPE IS INSTALLED IN A COMPACTED EMBANKMENT, THE EMBANKMENT SHALL BE IN PLACE AND COMPACTED TO 12" MIN. COVER BEFORE INSTALLATION OF PIPE.
 3. IF BEDDING IS REQUIRED TO BRING TRENCH BOTTOM UP TO GRADE AND PROVIDE UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE, THEN A MINIMUM COMPACTED DEPTH OF 4 TO 6 INCHES OF SELECT EMBEDMENT MATERIAL IS REQUIRED.
 4. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
 5. AN APPROVED LOCATOR WIRE SHALL BE USED.
 6. EARTHWORK, EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH PSLUSD STANDARDS.

STANDARD PIPE TRENCH CROSS SECTION G-04

SCALE: N.T.S.
DATE: 2019

CITY OF PSL PROJECT NO. P22-020
PSLUSD PROJECT NO. 9-0915-G

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
1172 SW 30TH STREET, SUITE 500,
PALM CITY, FLORIDA, 34990
C.A. 29013
SHAUN G. MACKENZIE P.E.
P.E. NO. 61751

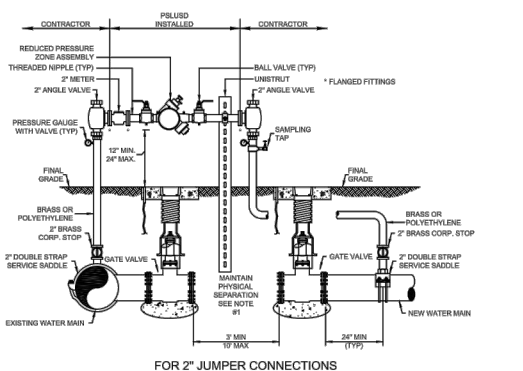
CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE BLVD, FL 34984

COUNTY ROAD NO.
ST. LUCIE COUNTY CROSSTOWN PARKWAY
SEGMENT 2A PH. 2

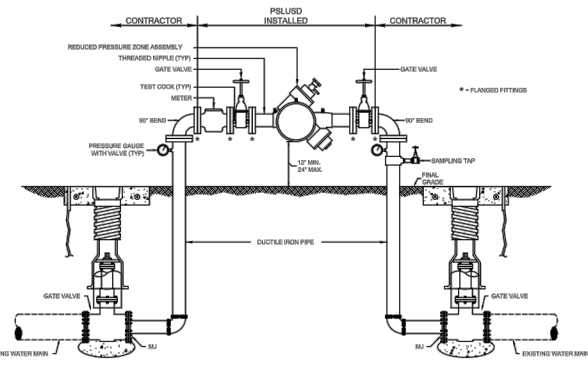
UTILITY DETAILS

SHEET NO.

66



FOR 2" JUMPER CONNECTIONS



FOR JUMPER CONNECTIONS 3" OR GREATER

- NOTES:
1. 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.
 2. 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.
 3. 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 SWABBING 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.
 4. 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.
 5. 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.
 6. 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.
 7. CONNECTION TO EXISTING WATER MAINS SHALL NOT BE MADE PRIOR TO BACTERIOLOGICAL CLEARANCE AND UNTIL NEW MAIN IS OWNED BY THE PSLUSD.
 8. 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 SWABBING WITH CHLORINE.
 9. 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

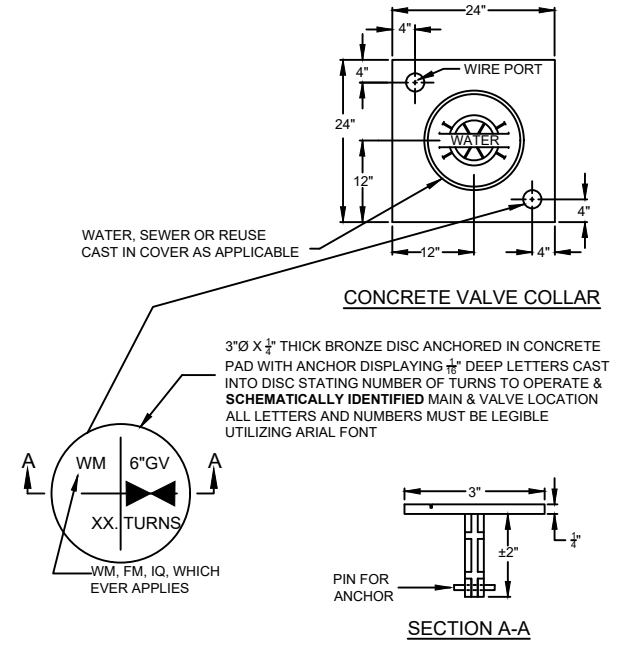
TEMPORARY JUMPER CONNECTION

DETAIL: G-14
 DATE: 2014
 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

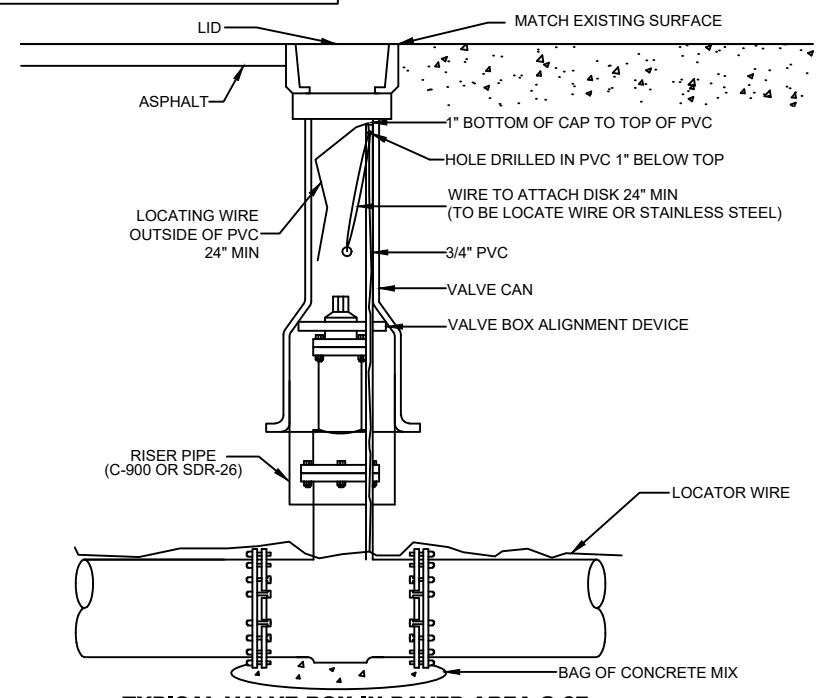
TEMPORARY JUMPER CONNECTION

DETAIL: G-14
 DATE: 2014
 SCALE: N.T.S.
 SHEET: 2 OF 2



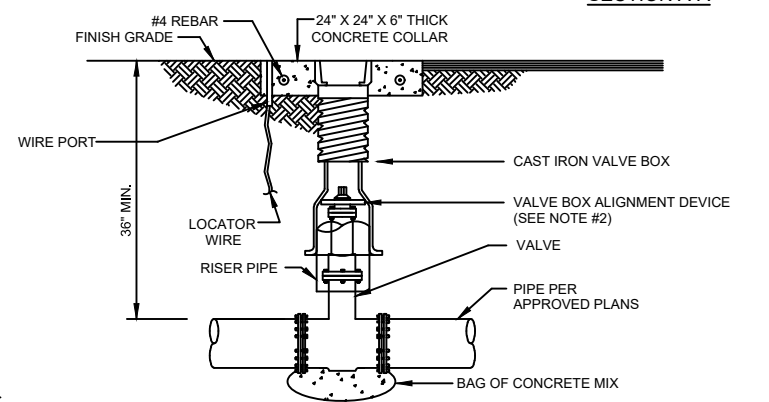
CONCRETE VALVE COLLAR

3"Ø X 1/2" THICK BRONZE DISC ANCHORED IN CONCRETE PAD WITH ANCHOR DISPLAYING 1/8" DEEP LETTERS CAST INTO DISC STATING NUMBER OF TURNS TO OPERATE & SCHEMATICALLY IDENTIFIED MAIN & VALVE LOCATION ALL LETTERS AND NUMBERS MUST BE LEGIBLE UTILIZING ARIAL FONT



TYPICAL VALVE BOX IN PAVED AREA G-07

SCALE: N.T.S.
 DATE: 2019



- NOTES:
1. WHEN TOP OF OPERATING NUT IS DEEPER THAN 30", A HIGH STRENGTH STEEL EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. A STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
 2. A VALVE BOX ALIGNMENT DEVICE SHALL BE PROVIDED TO ELIMINATE SHIFTING OF THE VALVE BOX AGAINST THE OPERATING NUT.
 3. C900 OR SDR-26 P.V.C. RISER PIPE SHALL BE ADDED TO EXTEND THE VALVE BOX IF NEEDED.
 4. RPM'S SHALL NOT BE INSTALLED IN CROSSWALKS OR PEDESTRIAN WALKWAYS.
 5. THE TOP SIDE OF THE VALVE BOX COVER AND THE INSIDE OF TOP SECTION OF THE VALVE BOX SHALL BE PAINTED BLUE FOR WATER MAINS, GREEN FOR SEWER MAINS AND PURPLE FOR RECLAIMED WATER MAINS.

TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA G-07

SCALE: N.T.S.
 DATE: 2019

CITY OF PSL PROJECT NO. P22-020
 PSLUSD PROJECT NO. 9-0915-G

REVISIONS			
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8-29-22	REVISED PER CITY OF PSL		

MACKENZIE ENGINEERING & PLANNING, INC.
 1172 SW 30TH STREET, SUITE 500,
 PALM CITY, FLORIDA, 34990
 C.A. 29013
 SHAUN G. MACKENZIE P.E.
 P.E. NO. 61751

CITY OF PORT ST. LUCIE
 121 SW PORT ST. LUCIE BLVD
 PORT ST. LUCIE BLVD, FL 34984

COUNTY	ROAD NO.
ST. LUCIE COUNTY	CROSSTOWN PARKWAY SEGMENT 2A PH. 2

UTILITY DETAILS

SHEET NO. 47

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