

PLANS PREPARED FOR

City of Port Saint Lucie Public Works Department

CONTRACT PLANS

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS
CITY OF PORT ST. LUCIE

COMPONENTS OF CONTRACT PLANS SET
* ROADWAY CONSTRUCTION PLANS

INDEX OF PLANS

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15	SIGNAL TABULATION

GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY2022-23 Standard plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

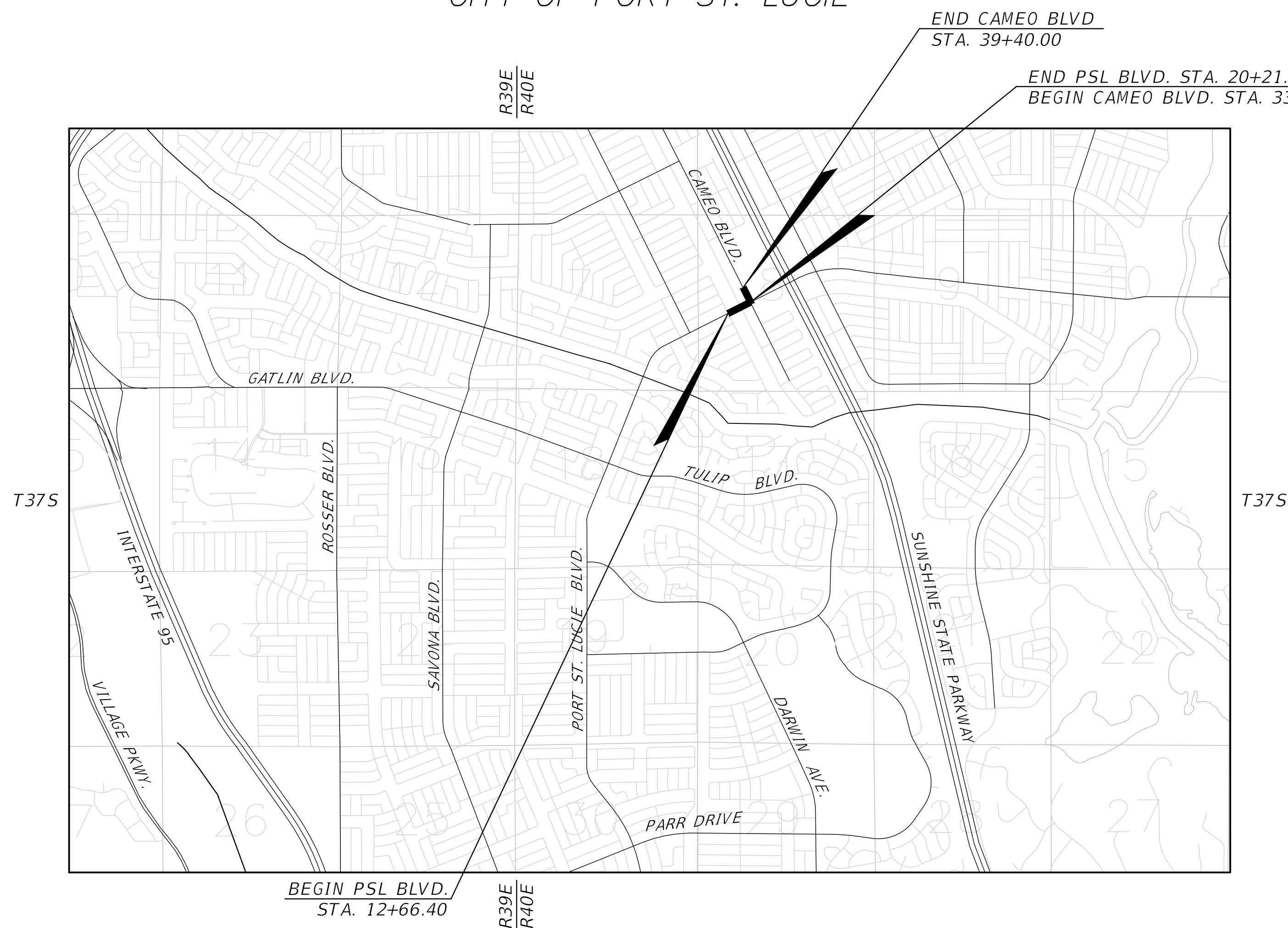
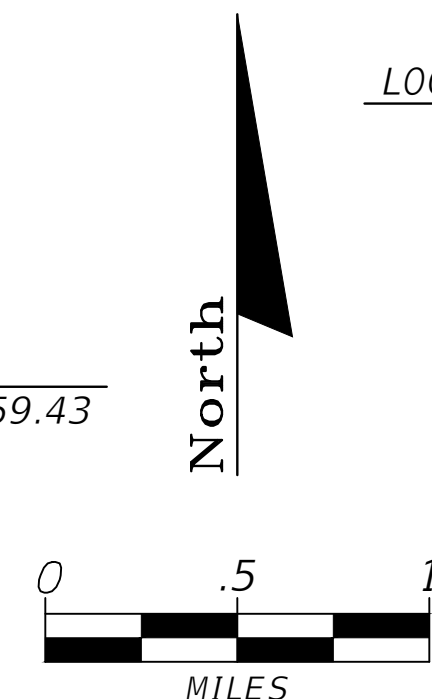
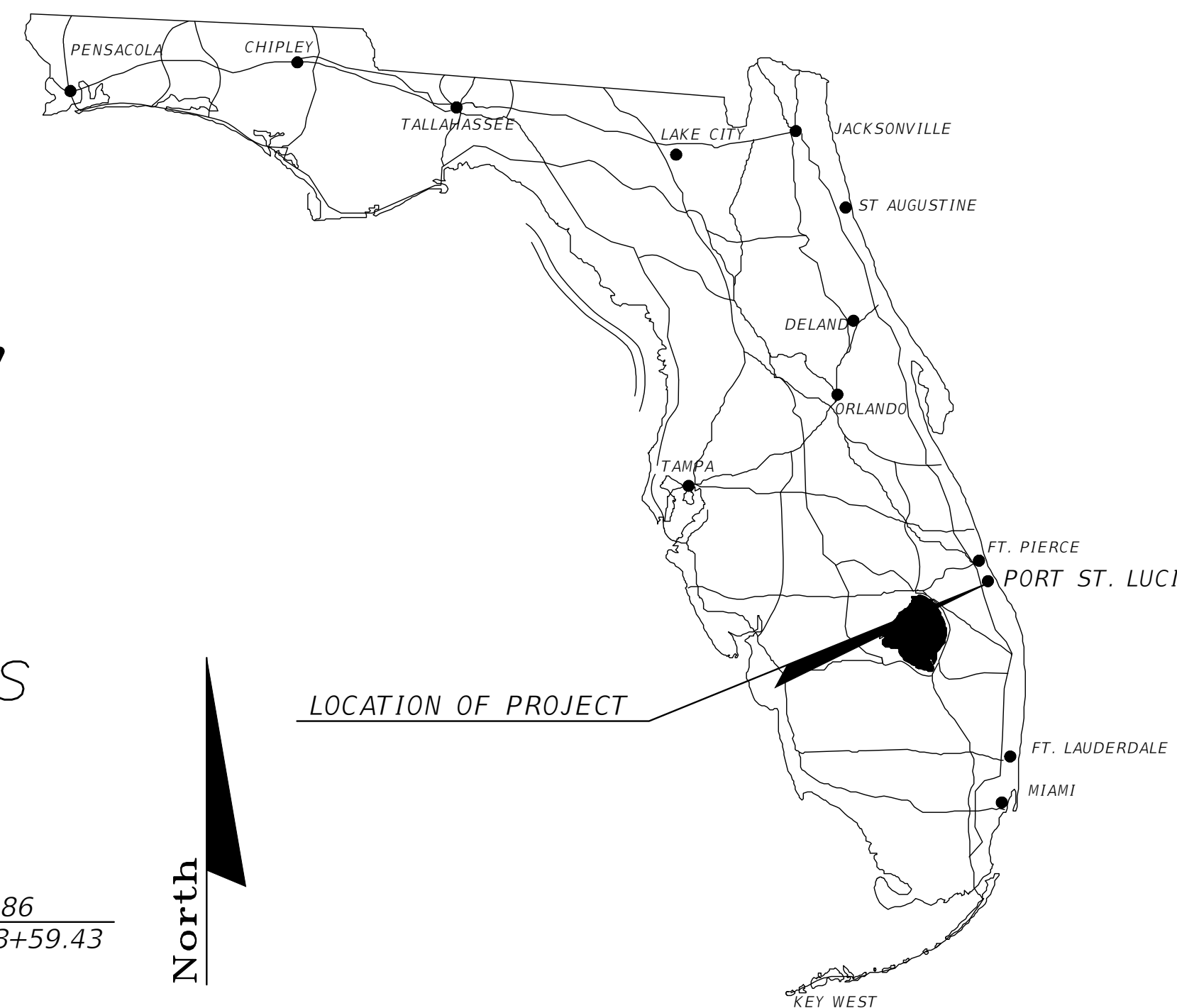
Standard Plans for Road Construction and associated Irs are available at the following website:
<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs:

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

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

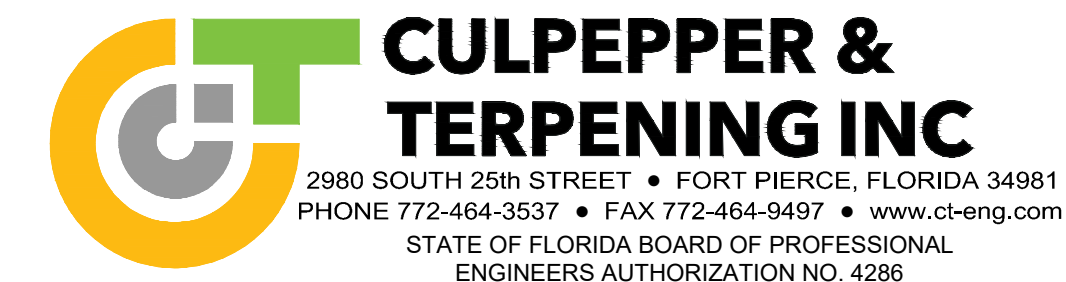
City of Port St Lucie Engineering Standards for Land Development, Commercial, Residential Subdivisions and Capital Improvement Projects



CONSTRUCTION SHOP DRAWINGS
TO BE SUBMITTED TO:

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

PLANS PREPARED BY:



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

These plans have been digitally signed and sealed by Stefan K Matthes, PE on 10/30/2023 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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

FINAL 100% CONSTRUCTION PLANS
OCTOBER 30, 2023

LENGTH OF PROJECT		
	LIN. FT.	MILES
UTILITY	0 LF	0.000
ROADWAY	1,336.03 LF	0.253
BRIDGES	0 LF	0.000
EXCEPTIONS		
GROSS LENGTH OF PROJ.	1,336.03 LF	0.253

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

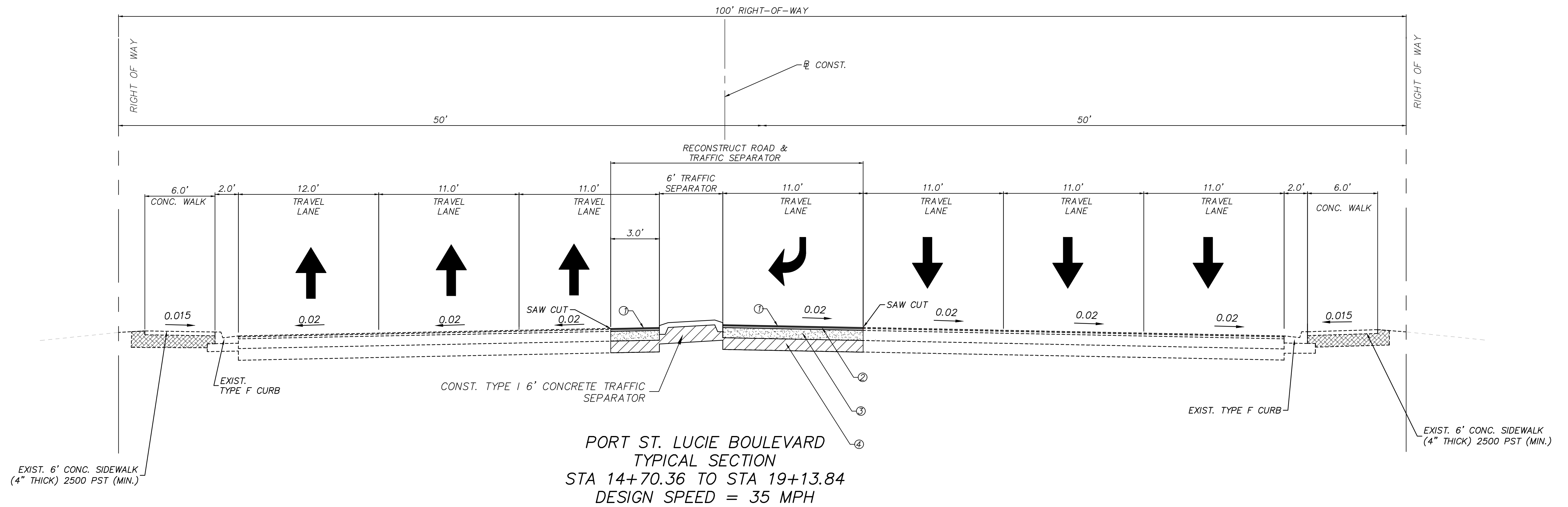
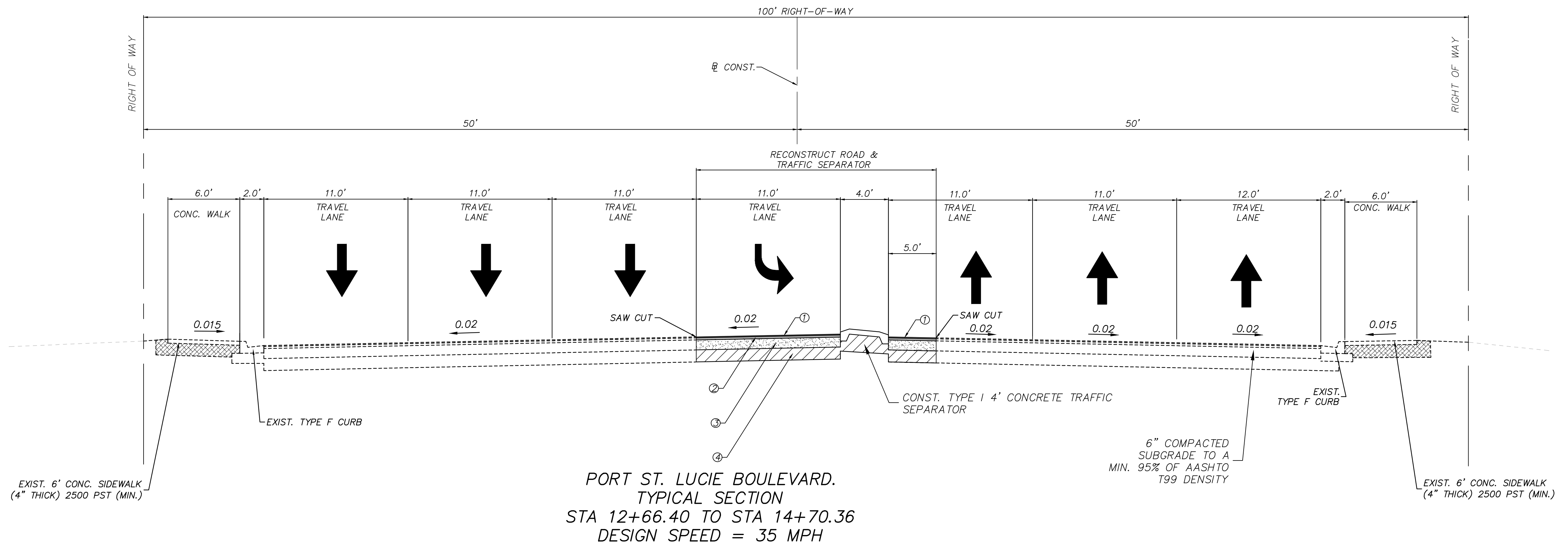
REVISIONS

CITY OF PSL PROJECT MANAGER: THOMAS SALVADOR

C&T JOB NO.: 22-185

FISCAL YEAR	SHEET NO.
23	1

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ASPHALT PAVEMENT (SN=4.30)

- ① TYPE FC-12.5 FRICTION COURSE (TRAFFIC LEVEL C) (1.5") (SN=0.66)
- ② TYPE SP-12.5 STRUCTURAL COURSE (2" THICK) (SN=0.88)
- ③ 10" OPTIONAL BASE GROUP 9 (SN=1.8)
- ④ 12" TYPE 'B' STABILIZATION (SN=0.96)

NOTES:

1. SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS AND SLOPES INDICATED AS "VARIES."
2. ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING OR INDICATED AS ST. AUGUSTINE SOD.
3. MAXIMUM SIDEWALK SLOPE IS 2.0%.
4. PLACE STREET TREES ON 40' CENTERS.
5. ROOT BARRIERS SHALL BE INSTALLED ADJACENT TO SIDEWALKS WHERE TREES ARE PLANTED WITHIN 5' OF THE SIDEWALK.

PSLUSD PROJECT NO. _____
CITY OF PSL PROJECT NO. P22-_____

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



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

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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

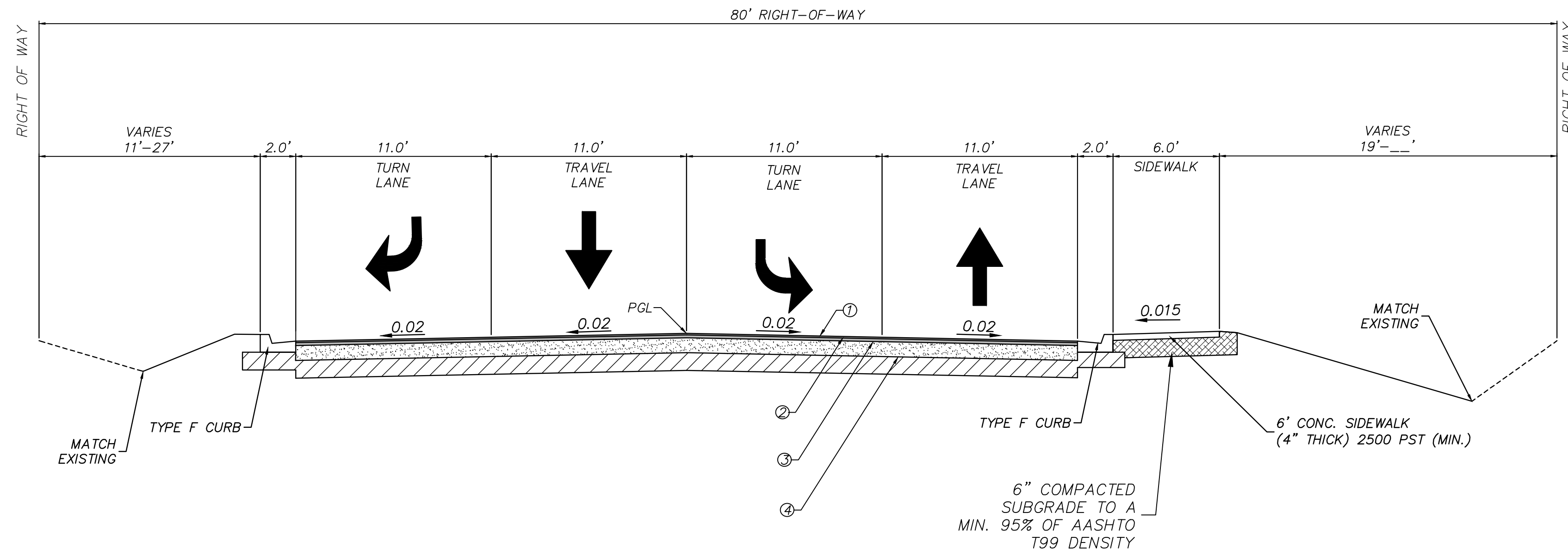
- REVISIONS -		
	BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	05/15/23
DETAILED		
CHECKED		
APPROVED	SKM	10/30/23

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS

TYPICAL SECTIONS

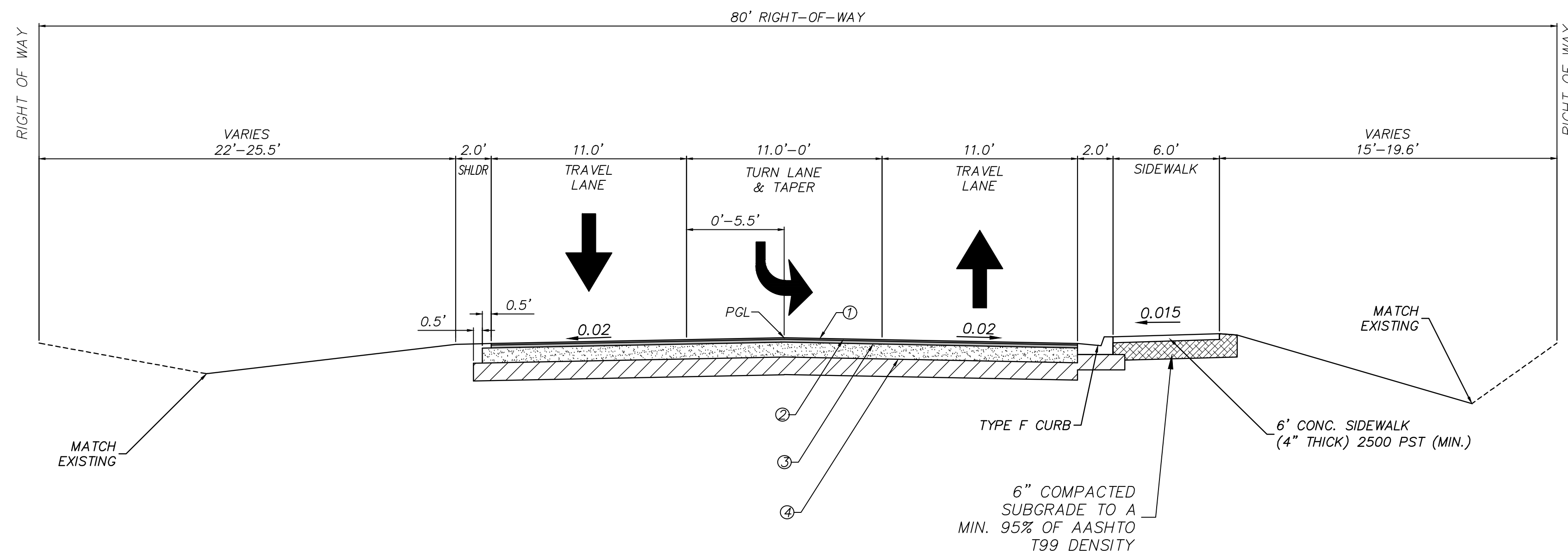
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HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 22-185
SHEET **3 of 15**



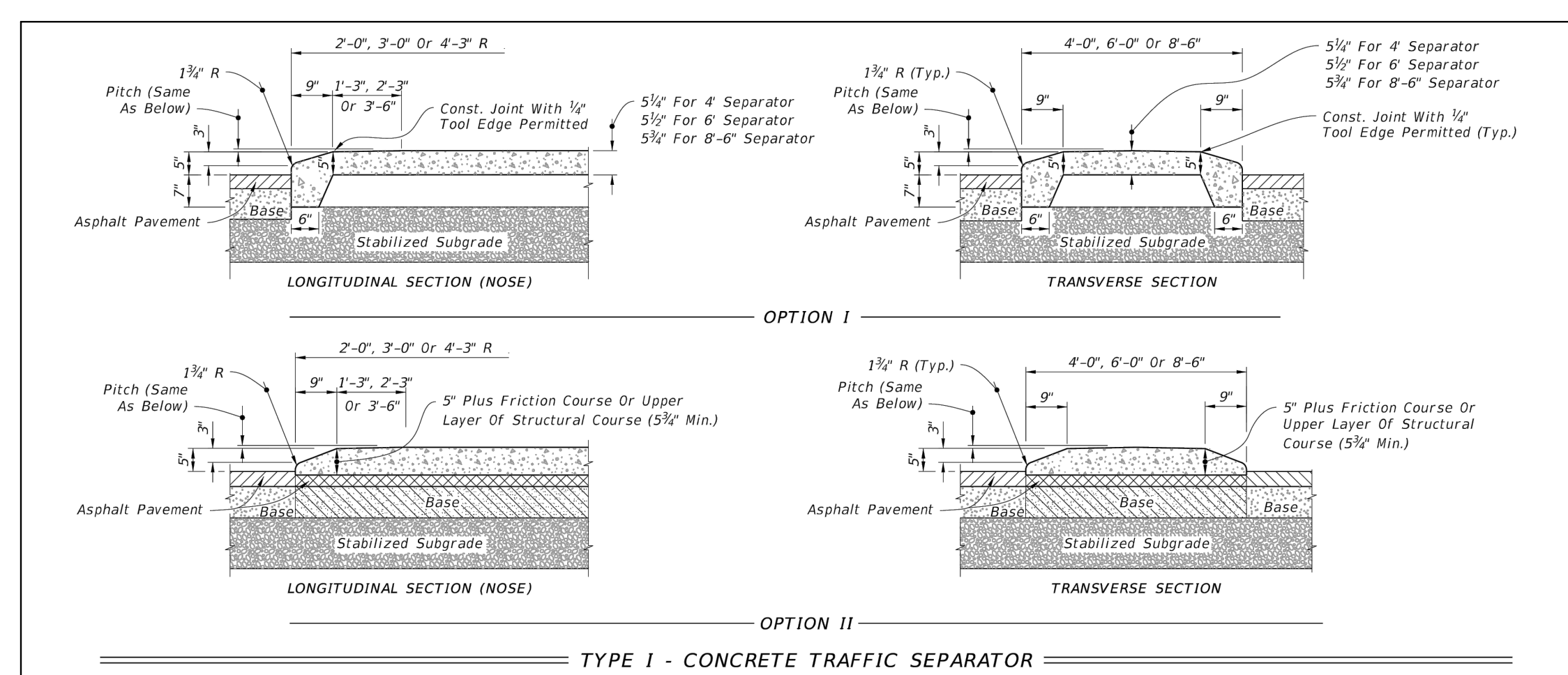
- ASPHALT PAVEMENT (SN=4.08)**
- ① TYPE SP-9.5 SURFACE COURSE (TRAFFIC LEVEL C) (1.0") (SN=0.44)
 - ② TYPE SP-12.5 STRUCTURAL COURSE (2" THICK) (SN=0.88)
 - ③ OPTIONAL BASE GROUP 9 (SN=1.8)
 - ④ 12" TYPE 'B' STABILIZATION (SN=0.96)

- NOTES:**
1. SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS AND SLOPES INDICATED AS "VARIES."
 2. ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING OR INDICATED AS ST. AUGUSTINE SOD.
 3. MAXIMUM SIDEWALK SLOPE IS 2.0%.
 4. PLACE STREET TREES ON 40' CENTERS.
 5. ROOT BARRIERS SHALL BE INSTALLED ADJACENT TO SIDEWALKS WHERE TREES ARE PLANTED WITHIN 5' OF THE SIDEWALK.

**CAMEO BOULEVARD
TYPICAL SECTION 1
STA 33+59.43 TO STA 35+81.60
DESIGN SPEED = 35 MPH**



**CAMEO BOULEVARD
TYPICAL SECTION 2
STA 35+81.60 TO STA 39+17.95
DESIGN SPEED = 35 MPH**



PSLUSD PROJECT NO. _____
CITY OF PSL PROJECT NO. P22-_____

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FL. REG. NO. 38723



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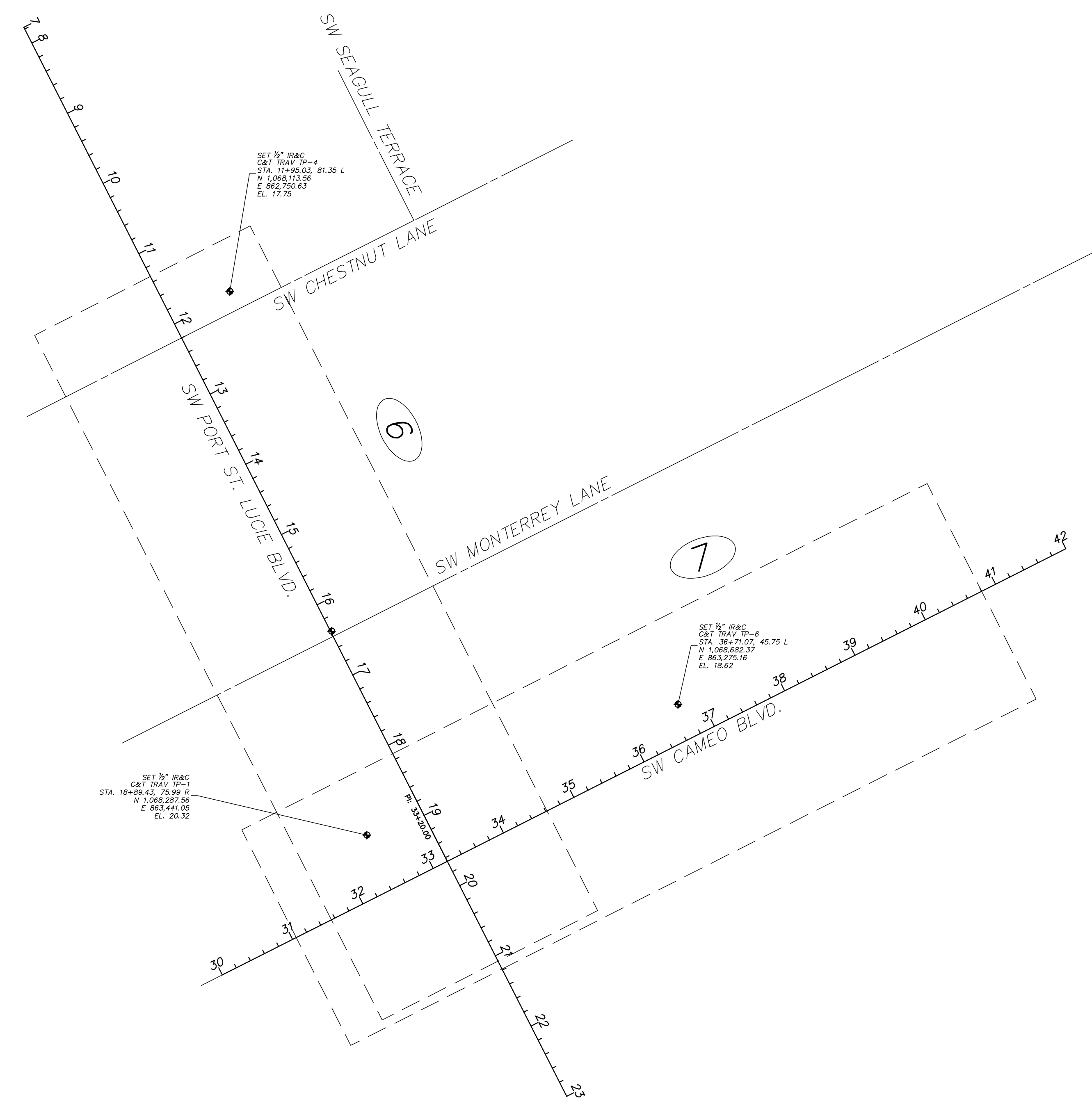
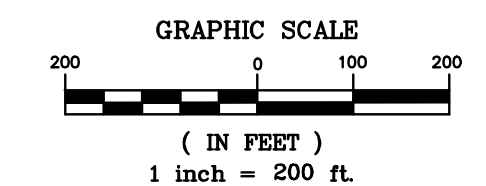
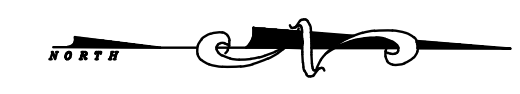
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CHECKED		
APPROVED	SKM	10/30/23

**PORT ST. LUCIE BLVD & CAMEO BLVD
INTERSECTION IMPROVEMENTS**

TYPICAL SECTIONS

DATE: 10/30/2023
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 22-185
SHEET 4 of 15

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BENCHMARK:
 PROJECT BENCHMARK IS PSL BM 4051 WITH A
 PUBLISHED ELEVATION OF 17.54 N.A.V.D. 1988

LEGEND

	SHEET NO. #
	LOCAL BENCHMARK/TRVERSE

CITY OF PSL PROJECT NO. P23-_____
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723

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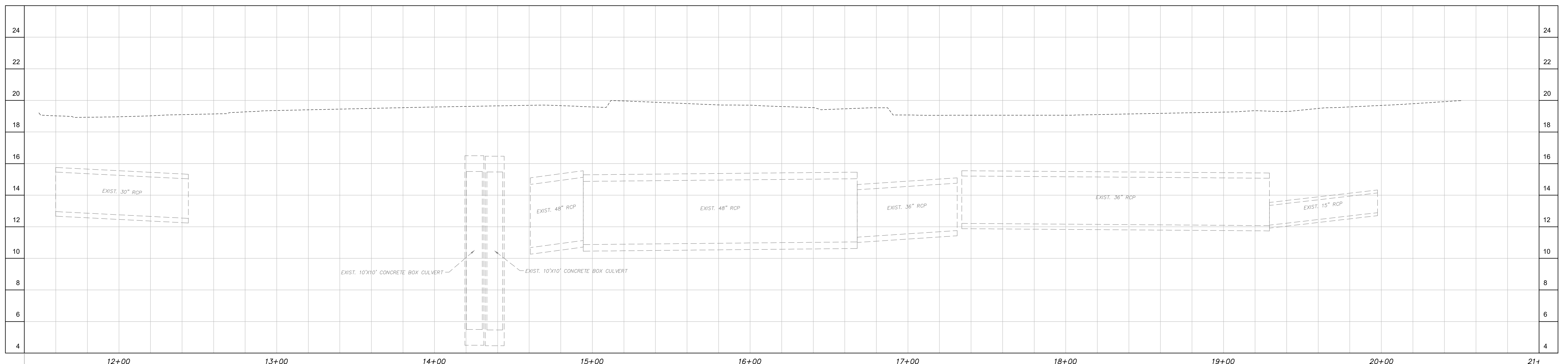
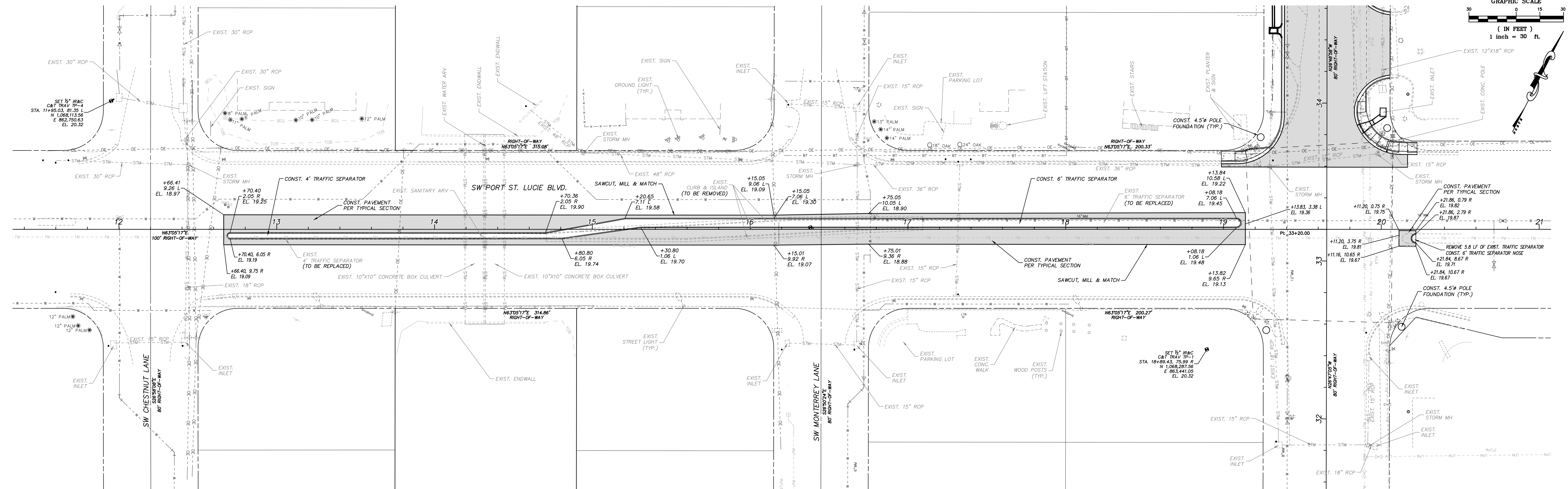
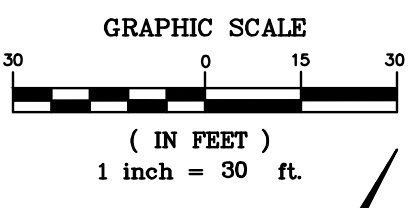
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CALCS.		
DRAWN	DRP	05/15/23
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APPROVED	SKM	10/30/23

**PORT ST. LUCIE BLVD & CAMEO BLVD
 INTERSECTION IMPROVEMENTS**

PROJECT LAYOUT

DATE: 10/30/2023
HORIZ. SCALE: 1"=100'
VERT. SCALE: N/A
JOB No. 22-185
SHEET 5 of 15



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CITY OF PSL PROJECT NO. P23-
STEFAN K. MATINES, P.E.
FL. REG. NO. 38723



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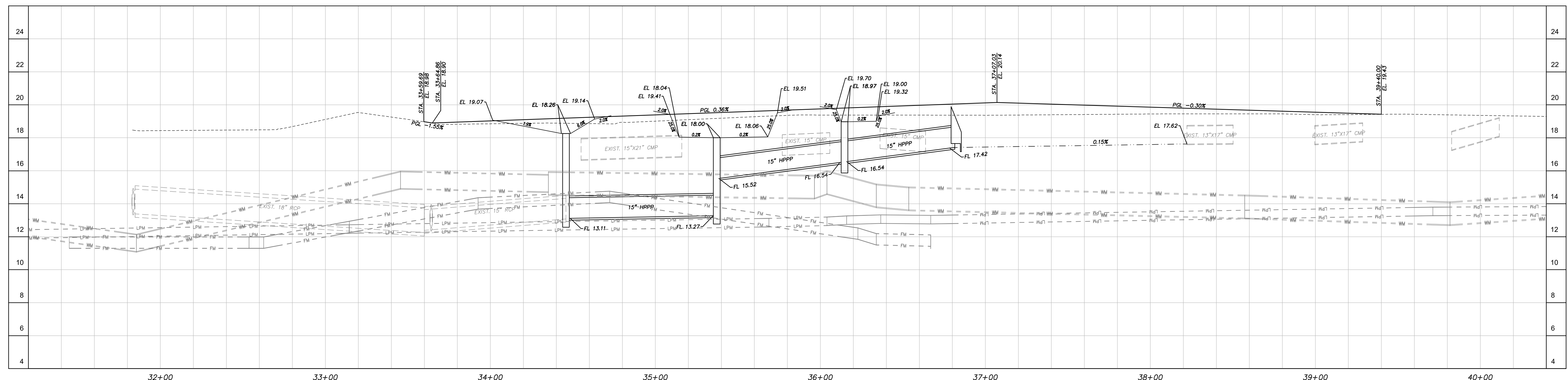
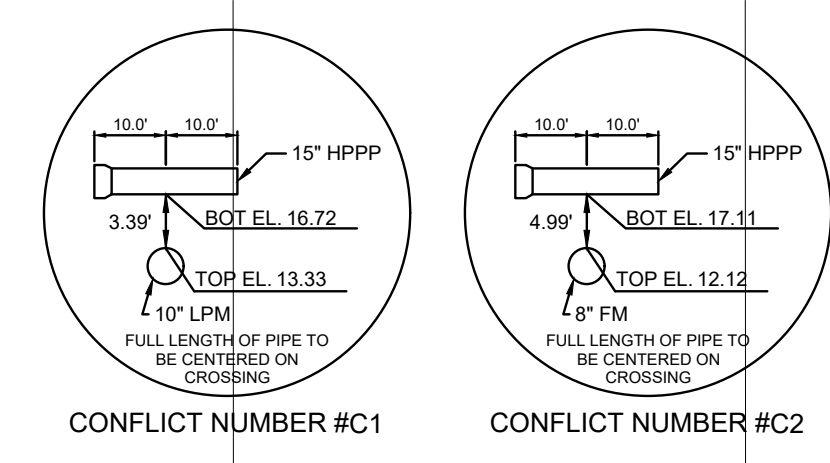
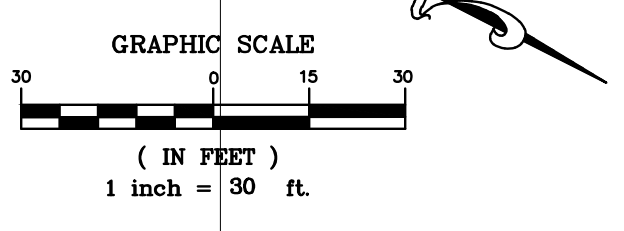
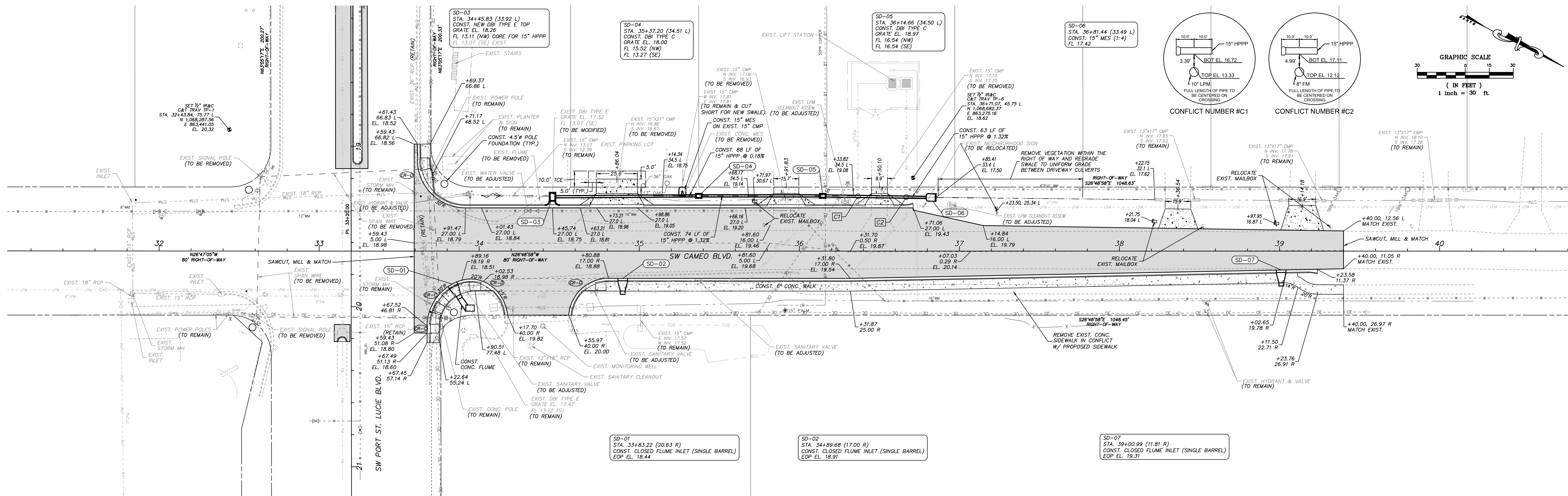
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CHECKED		
APPROVED	SKM	10/30/23

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS
PORT ST. LUCIE BLVD. ROADWAY PLAN

DATE: 10/30/2023
HORIZ. SCALE: 1"=30'
VERT. SCALE: N/A
JOB No. 22-185
SHEET 6 of 15



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



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APPROVED	SKM	10/30/23

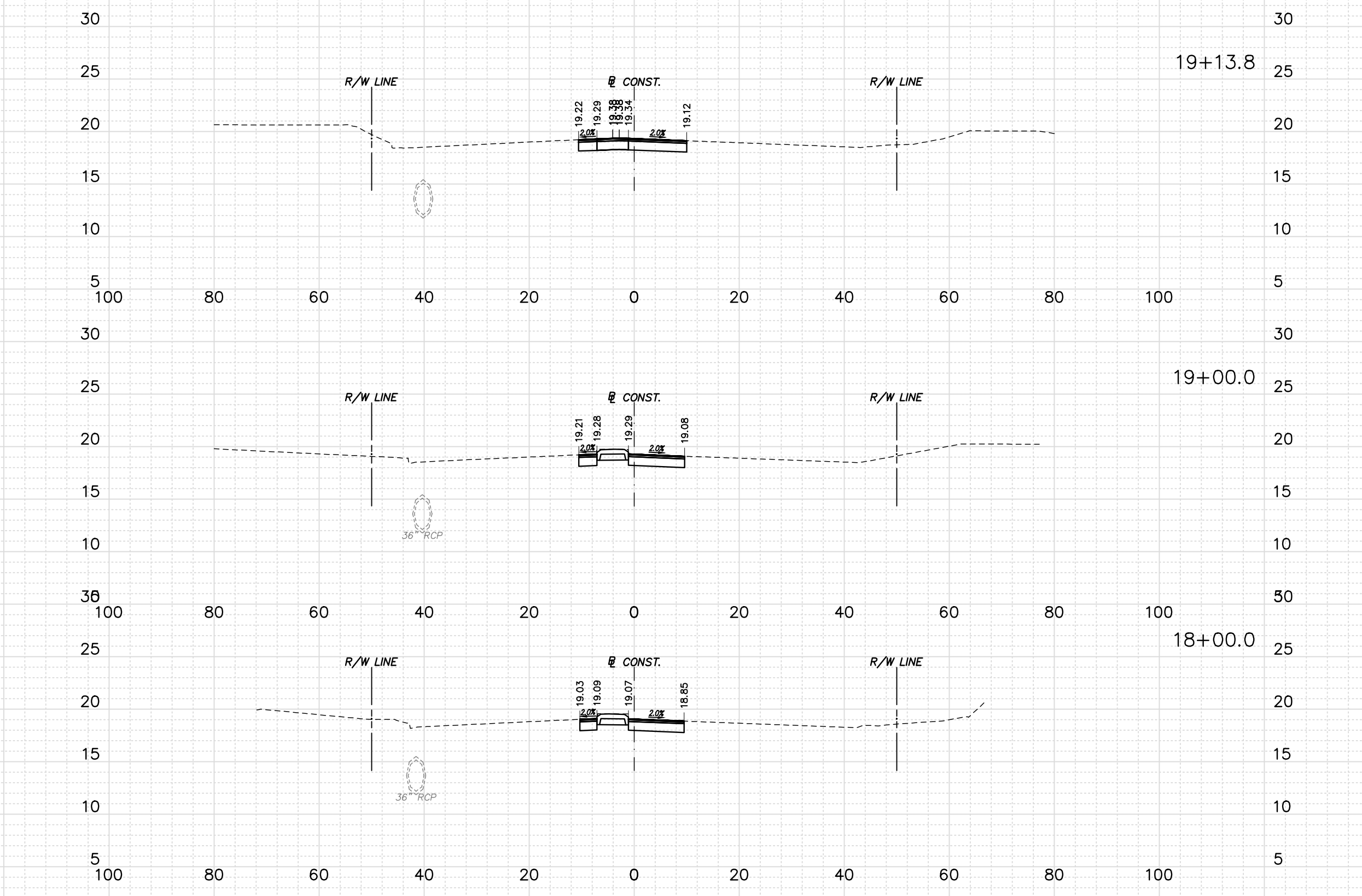
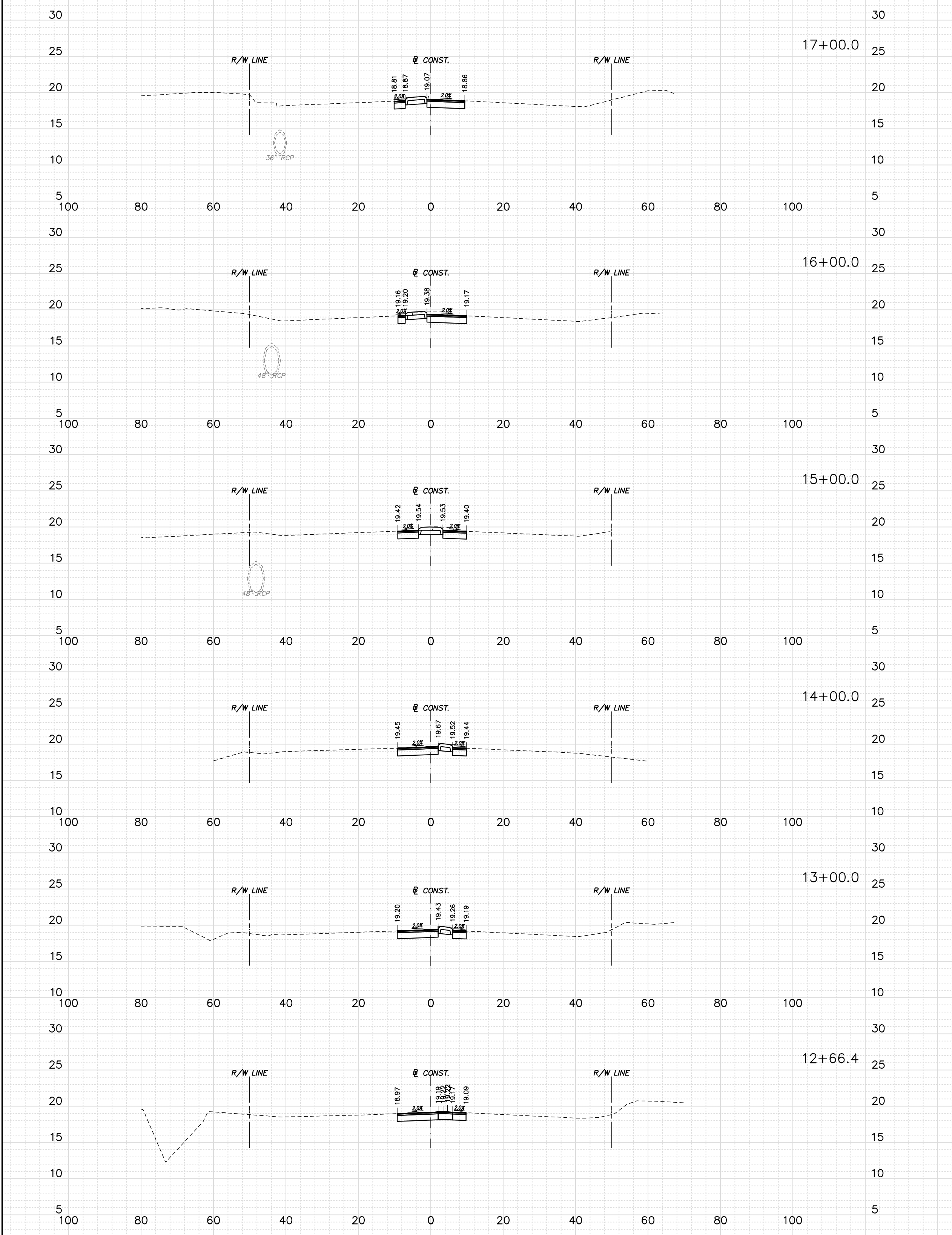
PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS
CAMEO BLVD. ROADWAY PLAN

DATE: 10/30/2023
HORIZ. SCALE: 1"=30'
VERT. SCALE: N/A
JOB No. 22-185
SHEET 7 of 15

P:\Proj-2022\22-185 PSL Blvd & Cameo Blvd Intersection Improvements\Eng\22-185 Cross Sections.dwg Plotted: 10/30/2023 8:22 AM By: KITHIRI UDUGAMA

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
20.92	77.84	0.00	0.00
21.11	76.01	0.00	0.00
19.94	74.08	0.00	0.00
20.06	74.77	0.00	0.00
20.31	25.55	0.00	0.00
20.76		0.00	

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
PSL BLVD. TOTAL EXC. 496.97		PSL BLVD. TOTAL EMBK. 0.00	
22.44	11.24	0.00	0.00
21.47	79.24	0.00	0.00
21.32	78.23	0.00	0.00



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

PSLUSD PROJECT NO. _____
CITY OF PSL PROJECT NO. P22-_____

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



NOTES:
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APPROVED	SKM	10/30/23

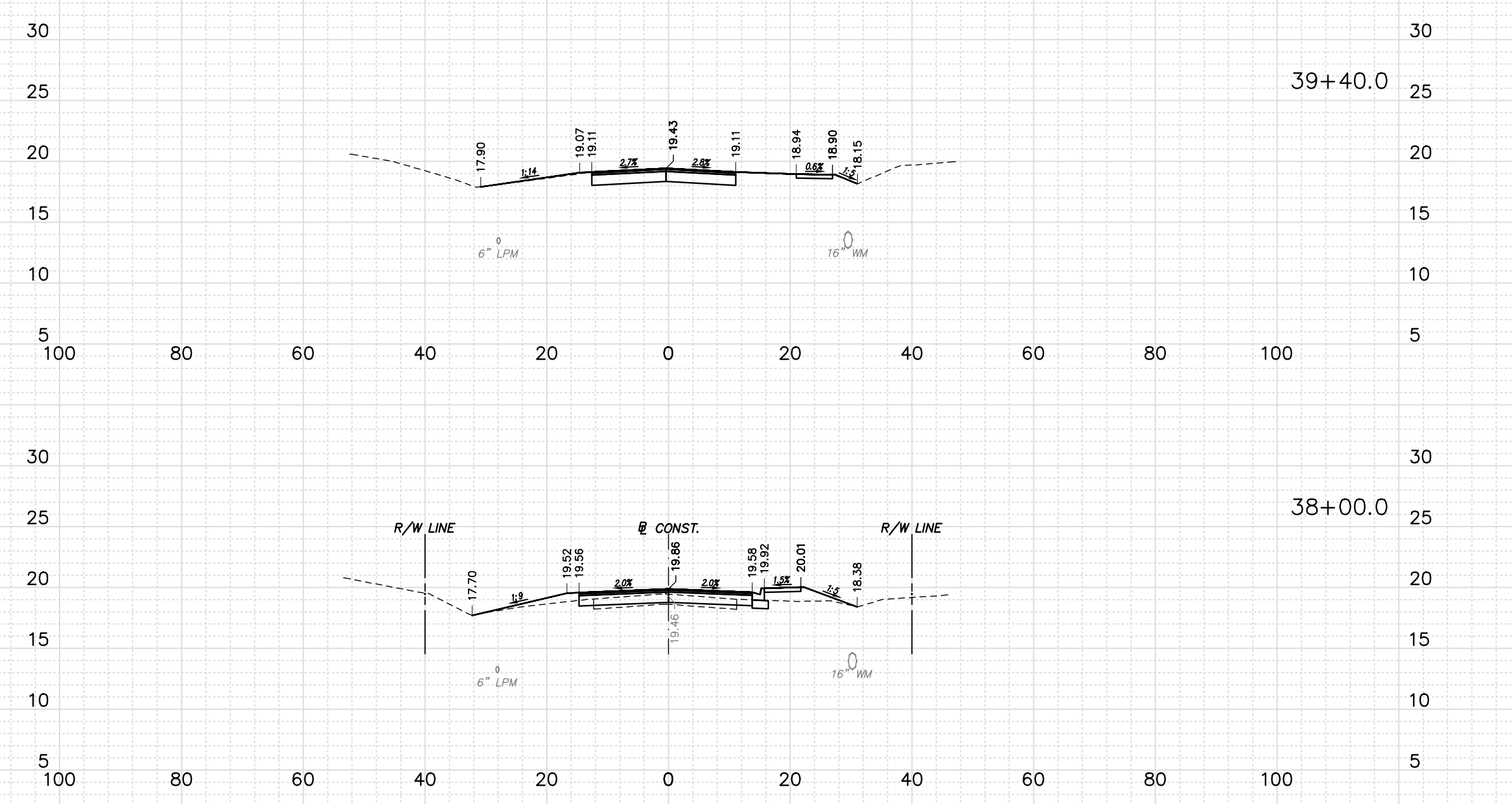
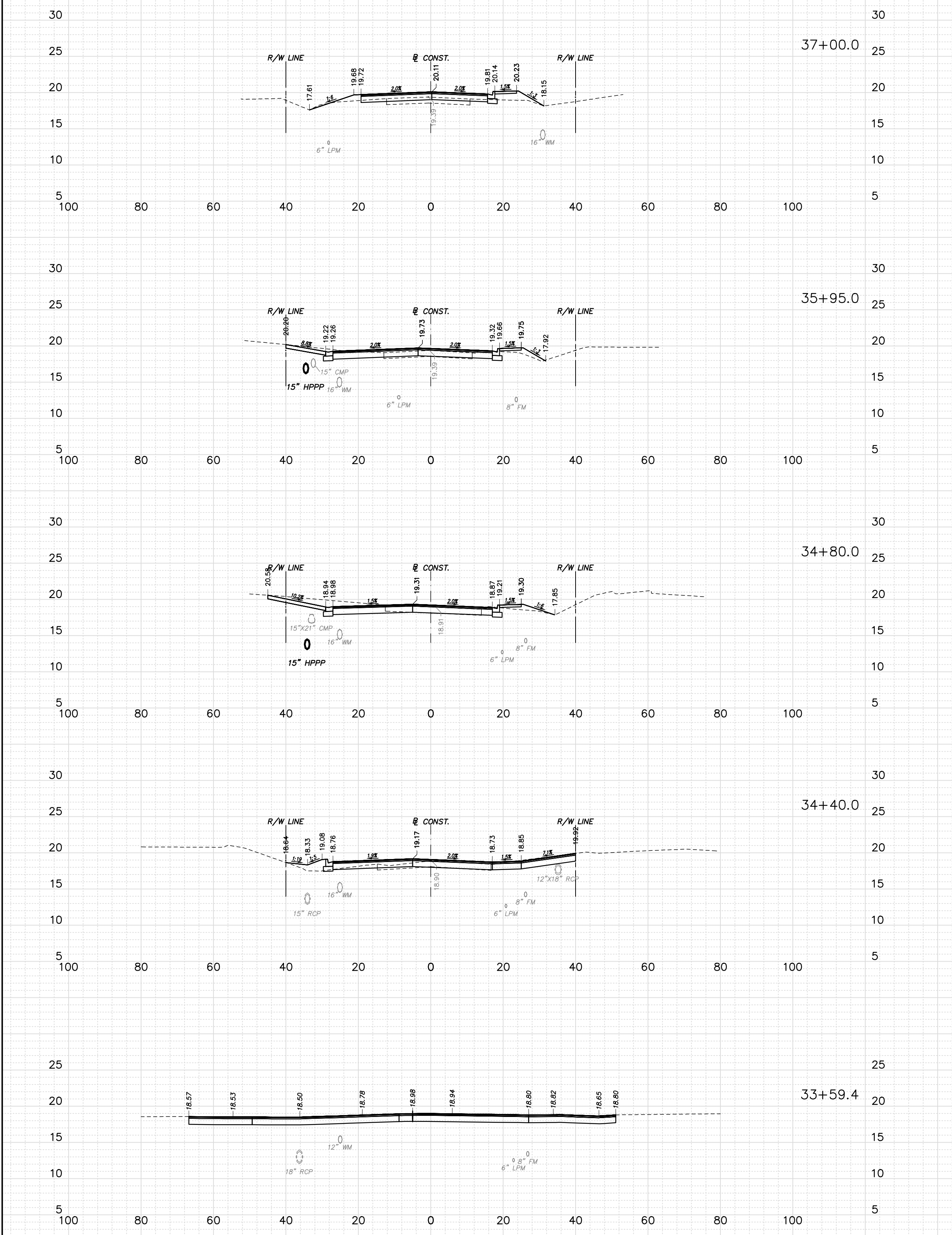
**PORT ST. LUCIE BLVD & CAMEO BLVD
INTERSECTION IMPROVEMENTS**
**PORT ST. LUCIE BLVD
ROADWAY CROSS SECTIONS**

DATE: 10/30/2023
HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'
JOB No. 22-185
SHEET 8 of 15

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REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
20.87	144.15	13.33	35.33
53.27	266.69	4.84	19.64
71.96	90.40	4.38	9.06
50.08	265.24	7.84	11.70
127.69		0.00	

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
27.38	117.92	1.34	40.26
18.10	72.17	14.19	50.96
PROJECT TOTAL EXC. 1,453.58		PROJECT TOTAL EMBK. 166.54	
CAMEO BLVD. TOTAL EXC. 956.61		CAMEO BLVD. TOTAL EMBK. 166.54	



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

PSLUSD PROJECT NO. _____
CITY OF PSL PROJECT NO. P22-_____

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



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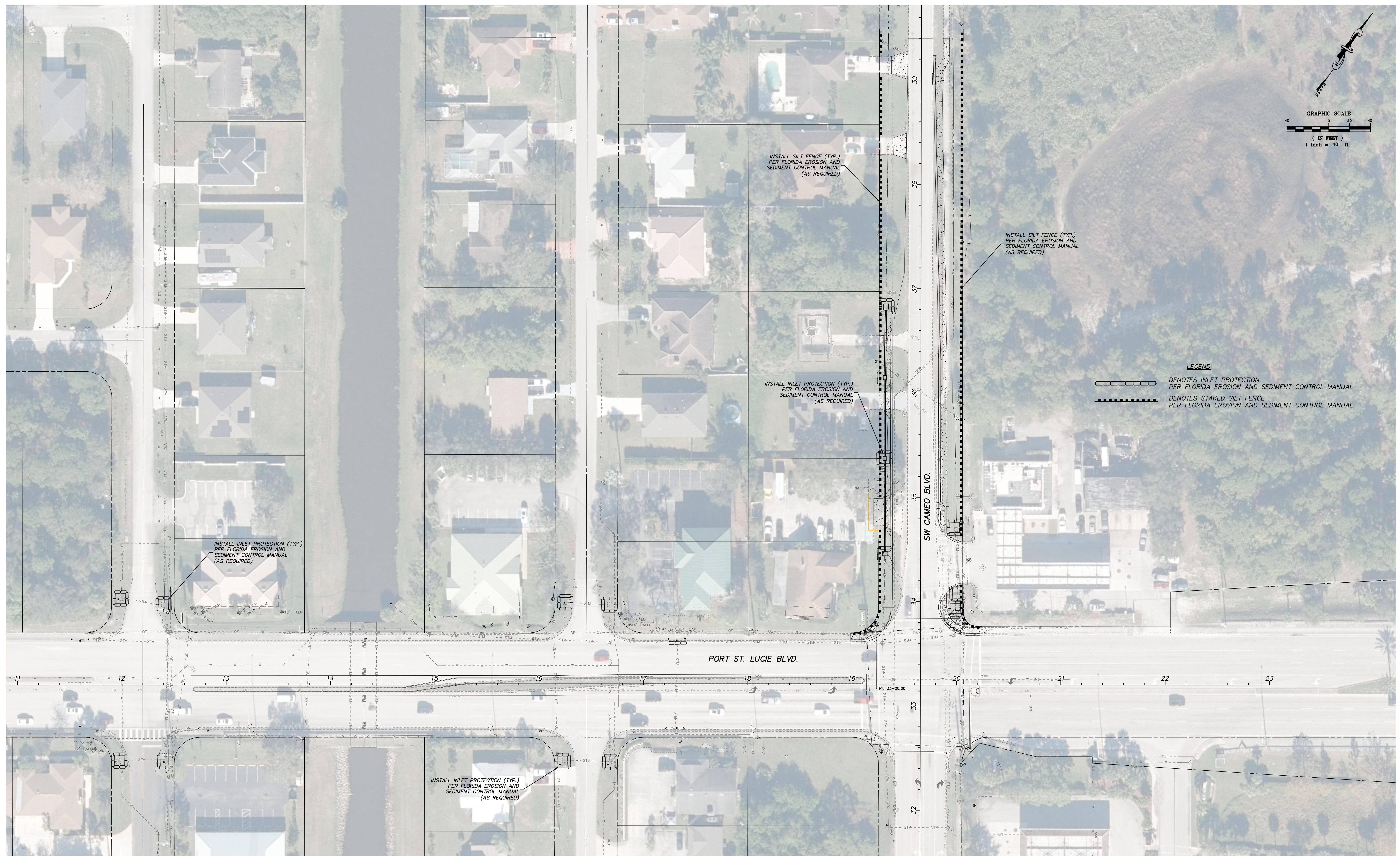
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DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	05/15/23
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APPROVED	SKM	10/30/23

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS
CAMEO BLVD. ROADWAY CROSS SECTIONS

DATE: 10/30/2023
HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'
JOB No. 22-185
SHEET 9 of 15

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CITY OF PSL PROJECT NO. P23-_____ STEFAN K. MATTHEWS, P.E.
FL. REG. NO. 38723



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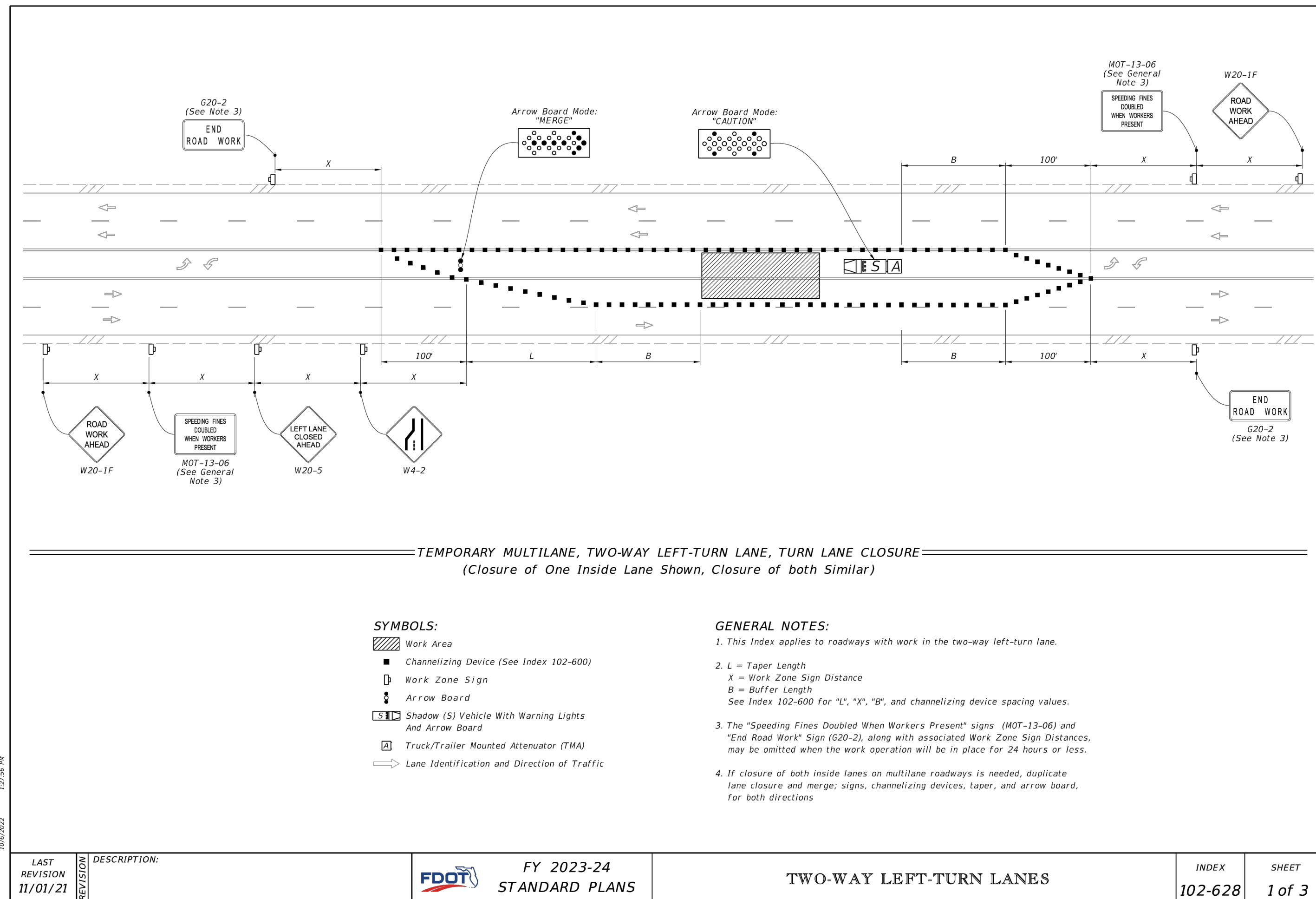
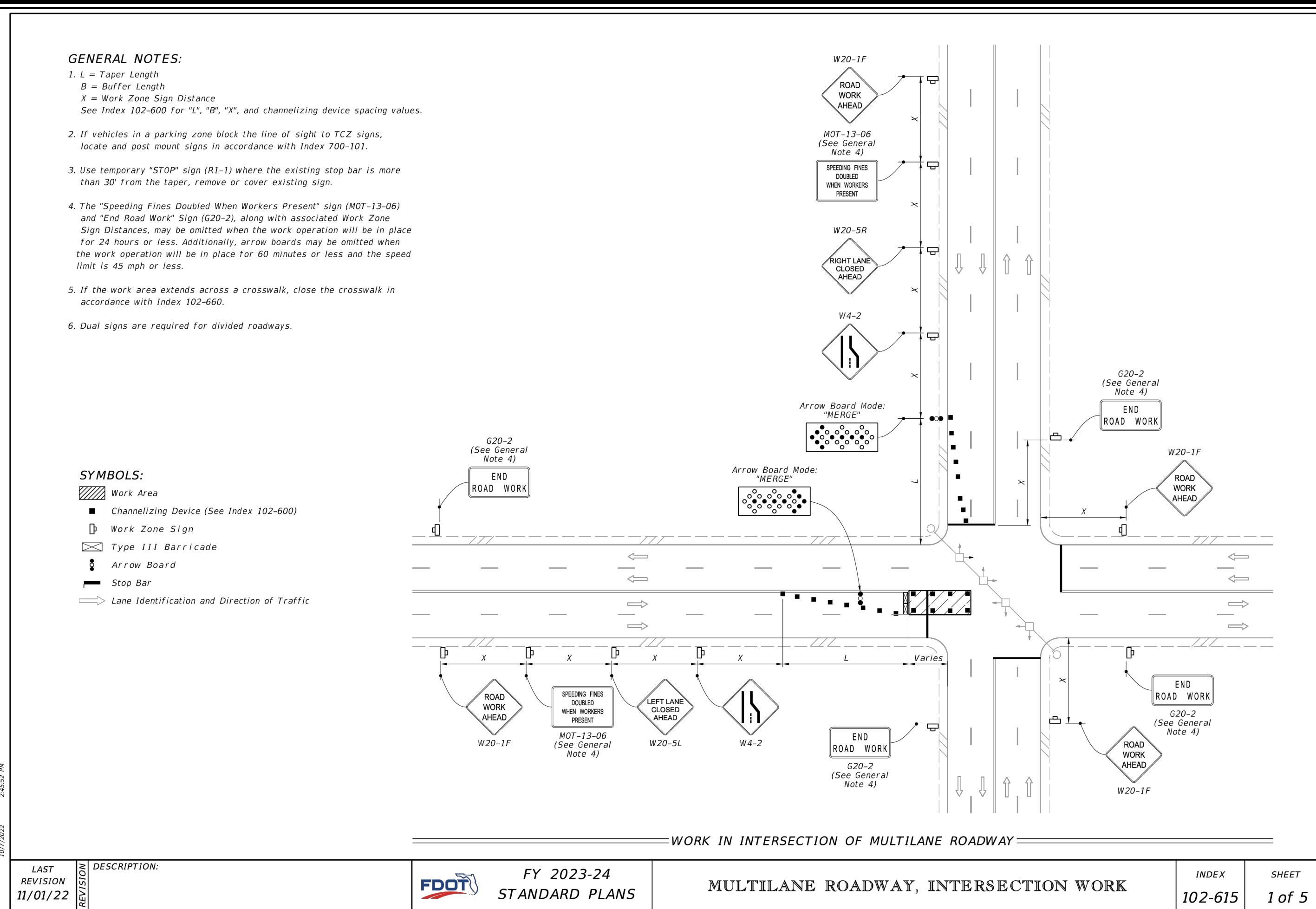
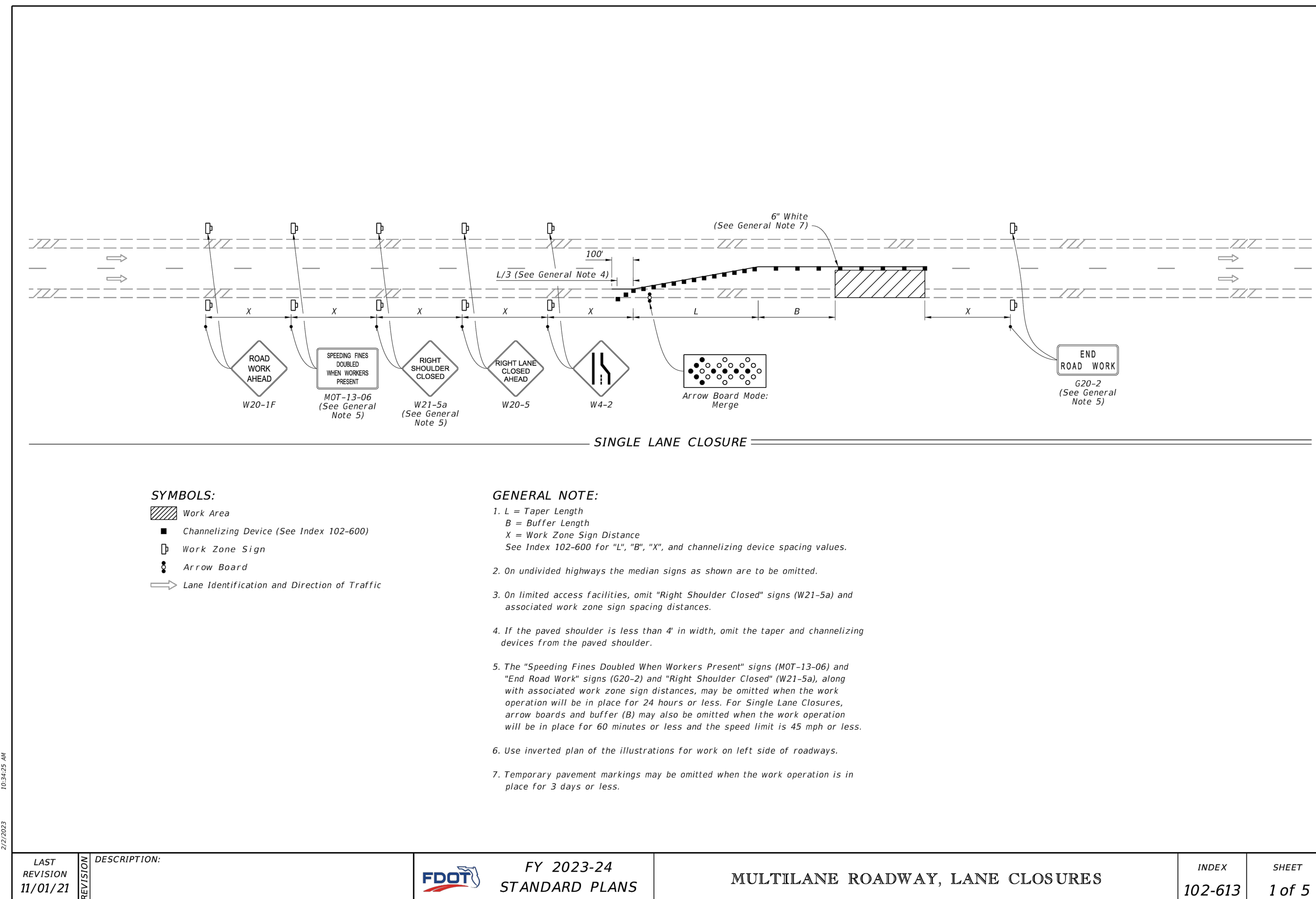
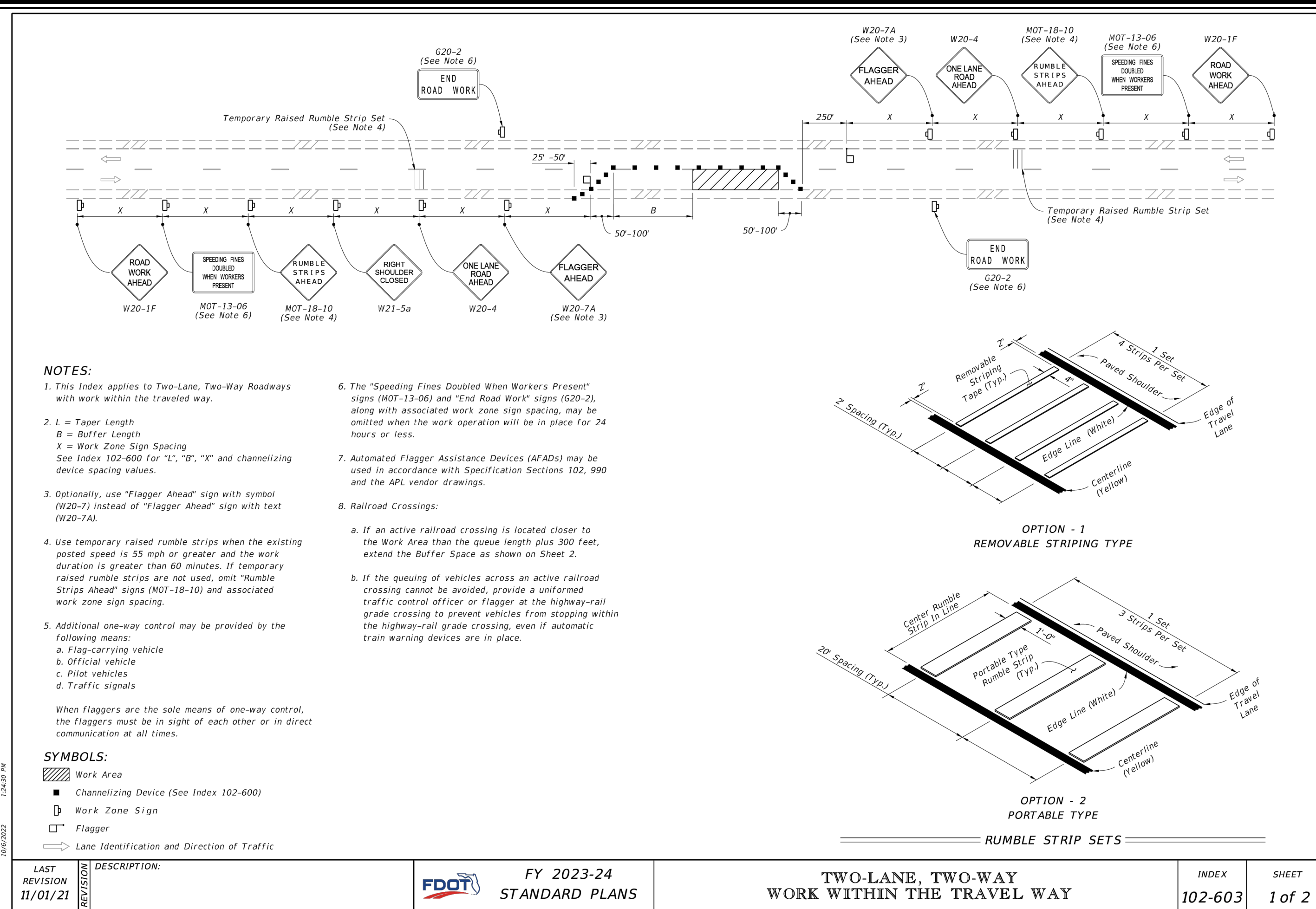
- REVISIONS -		BY	DATE

	BY	DATE
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CALCS.		
DRAWN	DRP	05/15/23
DETAILED		
CHECKED		
APPROVED	SKM	10/30/23

**PORT ST. LUCIE BLVD & CAMEO BLVD
INTERSECTION IMPROVEMENTS
STORMWATER POLLUTION PREVENTION
PLAN**

DATE: 10/30/2023
HORIZ. SCALE: 1"=40'
VERT. SCALE: N/A
JOB No. 22-185
SHEET 10 of 15

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BY	DATE

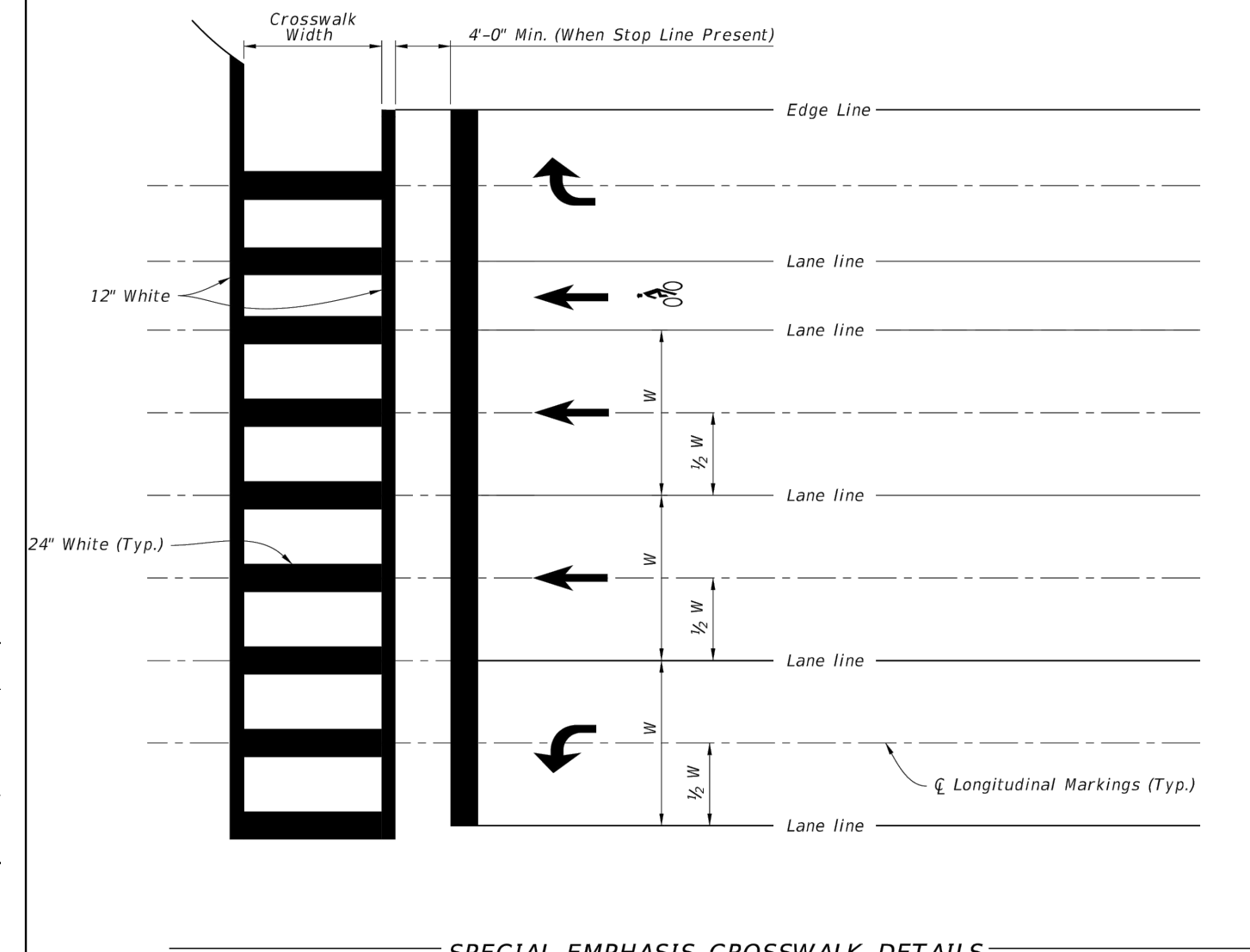
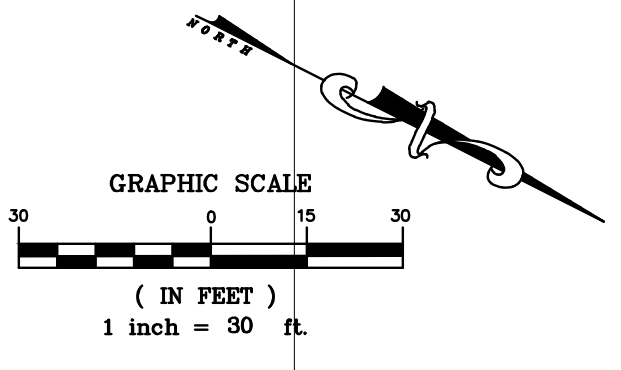
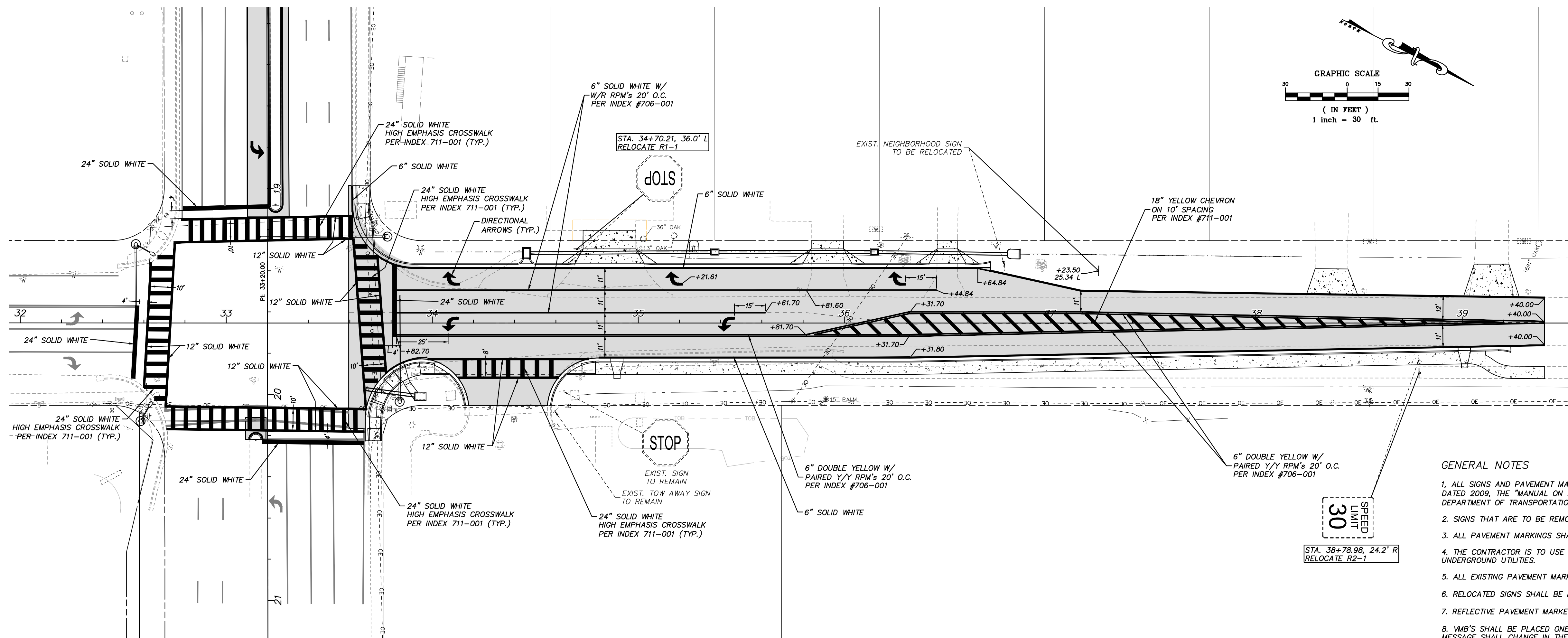
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Detailed		
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APPROVED	SKM	10/30/23

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS
TRAFFIC CONTROL DETAILS

DATE: 10/30/2023
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB No. 22-185
SHEET 12 of 15

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

CITY OF PSL PROJECT NO. P23-_____



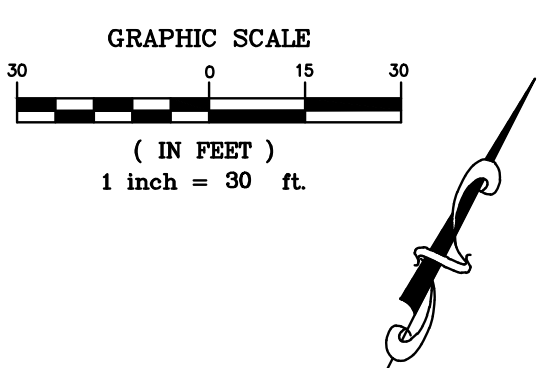
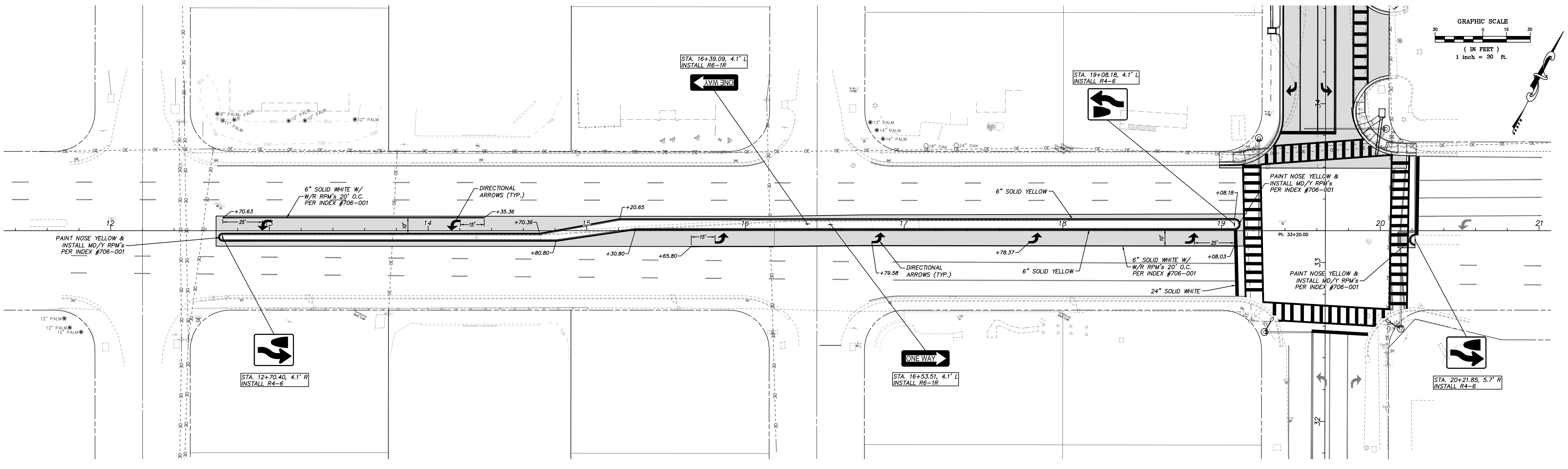
NOTES:

- For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
- When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
- Refer to Index 522-002 when Curb Ramps are present.

GENERAL NOTES

- ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), DATED 2009, THE "MANUAL ON STANDARDS HIGHWAY SIGNS 2009 EDITION, REVISION 3", DATED JULY 2022, AND THE "STANDARD PLANS" (FLORIDA DEPARTMENT OF TRANSPORTATION), DATED 2022-23.
- SIGNS THAT ARE TO BE REMOVED FROM THE PROJECT SHALL BE STOCKPILED SEPARATELY FROM THOSE THAT ARE TO BE RELOCATED.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAINT.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD-IN WIRES, TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THIS PLAN, SHALL BE REMOVED BY HYDROBLASTING.
- RELOCATED SIGNS SHALL BE PLACED ON A NEW POST (ROUND POST) AND HARDWARE THAT MEETS CURRENT STANDARDS.
- REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE PLACED IN ACCORDANCE WITH FDOT INDEX NO. 706-001.
- WMB'S SHALL BE PLACED ONE WEEK IN ADVANCE OF EACH NEW STOP SIGN AND LEFT IN PLACE TWO WEEKS AFTER INSTALLATION. WORDING ON MESSAGE SHALL CHANGE IN THE BEFORE AND AFTER CONDITION.

FDOT INDEX 711-001 SPECIAL EMPHASIS CROSSWALK DETAIL



P:\Proj\2022\22-185 PSL Blvd & Cameo Blvd Intersection Improvements\Eng\22-185 Marking.dwg Plotted: 10/30/2023 8:24 AM By: KITHSIRI UDIUGAMA

PSLUSD PROJECT NO. _____
 CITY OF PSL PROJECT NO. P23-_____
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723



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

COMPUTER FILE REF.	FIELD BK./PG.

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

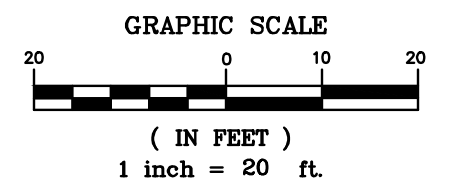
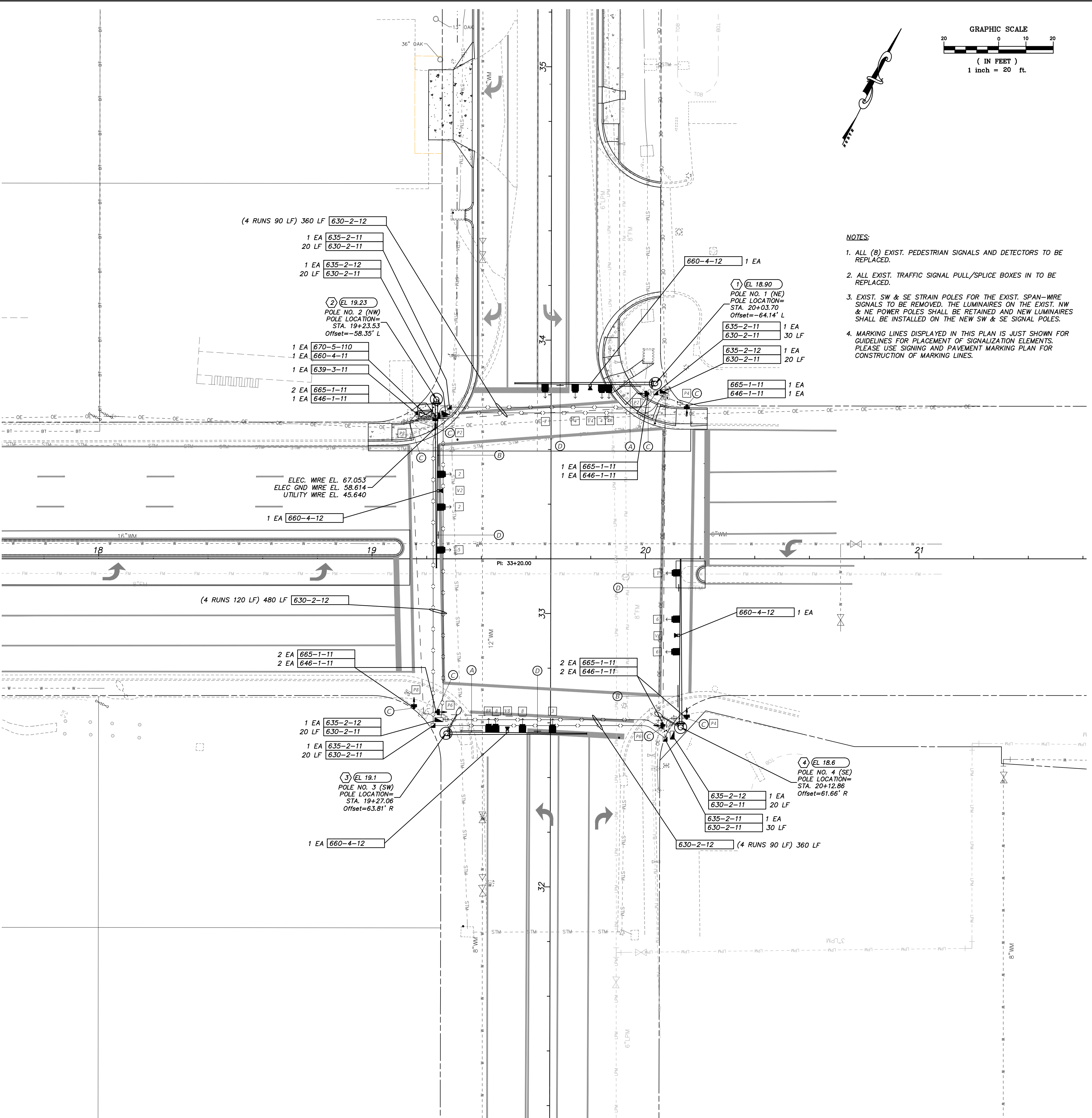
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DRAWN	DRP	05/15/23
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APPROVED	SKM	10/30/23

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS
PORT ST. LUCIE BLVD. & CAMEO BLVD. SIGNING AND PAVEMENT MARKING PLAN

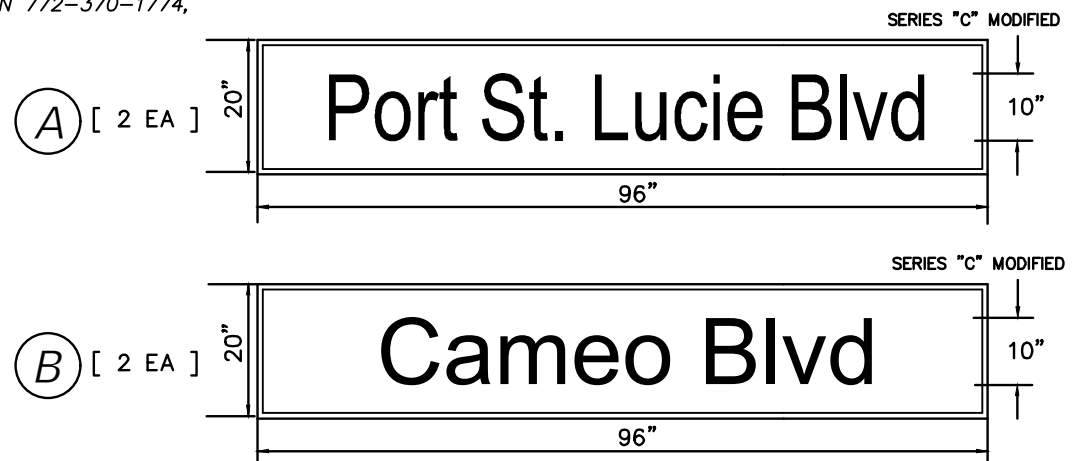
DATE: 10/30/2023
 HORIZ. SCALE: SCALE
 VERT. SCALE: SCALE
 JOB No. 22-185
 SHEET 13 of 15

SIGNAL OPERATION AND GENERAL NOTES

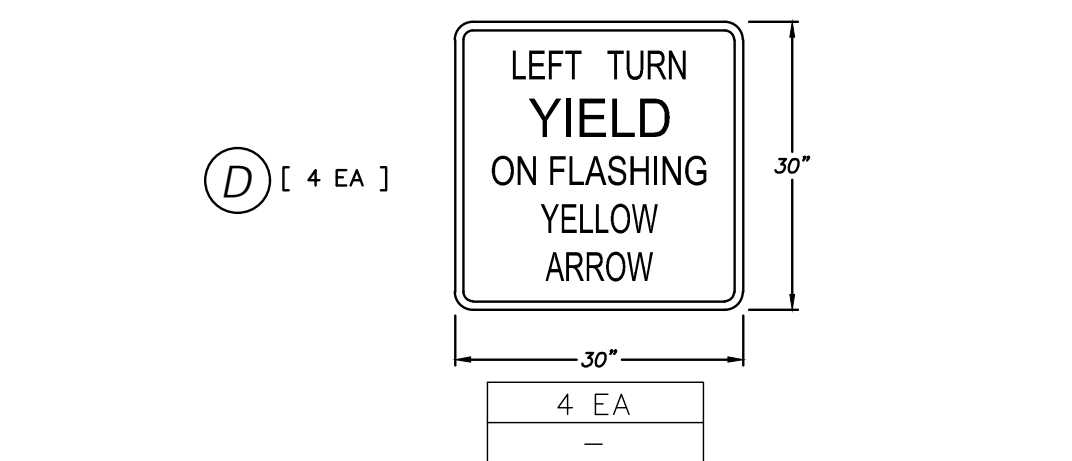
- THE CONTRACTOR SHALL NOTIFY THE CITY OF PORT ST. LUCIE PUBLIC WORKS DEPT. NO LATER THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF ANY WORK TO BE CARRIED OUT AT ANY SIGNAL. 772-871-5177
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A #8 KEY FROM THE TRAFFIC OPERATIONS COMPOUND AT 821 DWYER AVE TO ACCESS ANY OPERATIONAL TRAFFIC CABINET.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND ALL EXISTING UTILITIES, INCLUDING OVERHEAD POWER LINES.
- FOR PROGRAMED FLASH OPERATION, THE MAJOR STREET IS TO FLASH YELLOW AND THE MINOR STREET IS TO FLASH RED.
- THE CONTROLLER ASSEMBLY SHALL BE AN ECONOLITE CAB18728 TS2-1 PNO F0D777 R77 BM 16 HORIZ CAB IN WHITE/OUT-BARE, 77" WITH #8 KEY, INCLUDE COBALT CONTROLLER. THE TOP OF THE CONTROLLER CABINET FOUNDATION SHALL BE 12" ABOVE THE SIDEWALK ELEVATION TO PREVENT FLOODING. IN THE EVENT THERE IS NO SIDEWALK, THE TOP OF THE CONTROLLER CABINET FOUNDATION SHALL BE 12" ABOVE THE EDGE OF PAVEMENT.
- THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
- LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION.
- CONTACT SUNSHINE ONE CALL OF FLORIDA AT 811 OR SUNSHINE811.COM AT LEAST TWO (2) FULL BUSINESS DAYS BEFORE DIGGING.
- A DISCONNECT SWITCH IS TO BE MOUNTED ON A SEPARATE CONCRETE POLE ON CONTROLLER CABINET CORNER.
- CONTROLLER BASE SHALL HAVE TWO (2) CONDUITS FOR COMMUNICATION CABLE IN ADDITION TO THE TWO (2) SPARES THAT ARE REQUIRED. THEY SHALL BE TERMINATED INTO THE COMMUNICATION PULL BOX.
- THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT TO DETERMINE ELECTRICAL SERVICE FEED LOCATION.
- THE CONTROLLER CABINET SHALL BE ORIENTED WITH THE DOOR OPENING AWAY FROM THE ROADWAY, SO THAT THE TECHNICIAN CAN VIEW THE ENTIRE INTERSECTION WHILE WORKING IN THE CABINET.
- A CONCRETE TECHNICIAN PAD SHALL BE CONSTRUCTED ADJACENT TO THE CONTROLLER CABINET AT SIDEWALK ELEVATION WITH A 6" EYEBOUL PROTRUDING FROM THE CONCRETE AT THE HINGE SIDE OF THE CABINET TO SECURE A GENERATOR. IN THE ABSENCE OF SIDEWALK, THE CONCRETE TECHNICIAN PAD SHALL BE AT EDGE OF PAVEMENT ELEVATION.
- TOP OF MAST ARM FOUNDATIONS WITHIN THE SIDEWALKS SHALL MATCH FINISH CONTOUR AND ELEVATION OF SIDEWALKS WITHOUT JOINTS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER BOLT PROJECTION ABOVE FINISHED SIDEWALK GRADE.
- LUMINAIRES ON MAST ARMS SHALL BE 120 VOLT, LIGHT EMITTING DIODE (LED) 250 WATT NPS EQUIVALENT AND SHALL BE WIRED ON A SEPARATE BREAKER IN THE DISCONNECT BOX.
- THE CONTROLLER SHALL OPERATE AN APPROVED FLORIDA D.O.T. SIGNAL OPERATING PLAN.
- SIGNAL TIMINGS DISPLAYED FOR LOCAL OPERATION ARE SUGGESTED TIMINGS BASED ON THE MPD AREA VOLUME COUNTS - ACTUAL TIMING AND COORDINATION PLANS ARE TO BE DETERMINED BY THE CITY OF PORT ST. LUCIE PROFESSIONAL ENGINEER'S REPRESENTATIVE.
- FINAL LOCATION OF MAST ARMS TO BE FIELD DETERMINED AND APPROVED BY THE CITY AND ENGINEER OF RECORD.
- OPTICAL VEHICLE DETECTORS SHALL BE ITERS EDGE II, WITH ITERS EDGE CONNECT AND ITERS TS2-IM MODULE, AND SHALL BE CAPABLE OF MULTI ZONE DETECTION. DETECTORS SHALL BE ITERS N24-NWR AND SHALL BE MOUNTED ABOVE THE MAST ARM USING ASTRO BRACKET HARDWARE AT A HEIGHT CAPABLE OF THE REQUIRED DETECTION AND AS RECOMMENDED BY THE SYSTEM MANUFACTURER. THE DETECTION SYSTEM SHALL BE EQUIPPED WITH AN LED MONITOR FOR CONFIGURATION OF THE DETECTOR LOOPS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY OF PORT ST. LUCIE FOR APPROVAL AND MUST COMPLY WITH THE CITY'S VIDEO SYSTEM. ALL VIDEO POWER CABLES, PROCESSORS, AND EQUIPMENT SHALL BE PROVIDED FOR A COMPLETE AND OPERATIONAL VIDEO DETECTION SYSTEM. MANUFACTURERS SHALL BE PRESENT AT TURN ON FOR PROGRAMMING AND SETUP.
- ALL ILLUMINATED STREET NAME SIGNS SHALL BE RIGIDLY MOUNTED AND WIRED TO A SINGLE PHOTO CELL LOCATED IN THE CONTROLLER CABINET. LETTERING SIZE AND FHWA FONT TYPE SHALL MEET CURRENT MUTCD AND FDOT STANDARDS.
- ALL SIGNALS SHALL BE EQUIPPED WITH AN UNINTERRUPTIBLE POWER SUPPLY (UPS). AN ALPHA NOVUS FPM 2000 IN A NOVUS FORTEX FX 200 CABINET MOUNTED ON A CONCRETE PAD ALONGSIDE THE CONTROLLER FOUNDATION AND HAVE A NETWORK INTERFACE CARD INSTALLED AND CONFIGURED.
- FIBER OPTIC ETHERNET SWITCH SHALL BE SIEMENS-RUGGEDCOM RS-9000-11-D-25010-KK-AND SHALL BE FULLY CONFIGURED FOR OPERATION, INCLUDING ADDRESS DETERMINED BY THE CITY OF PORT ST. LUCIE TRAFFIC DIVISION ***OR *** CISCO INDUSTRIAL ETHERNET 4000 SERIES 20 PORTS MANAGED - (PART # IE-4000-807804G-E)/CISCO AC-DC POWER MODULE FOR POE SOLUTION (PART # PWR-E170W-PC-AC) AND SHALL NOT BE CONFIGURED OR PROGRAMMED. CONTRACTOR SHALL DELIVER UNCONFIGURED SWITCH ALONG WITH ALL POWER SUPPLY CONNECTIONS TO THE CITY OF PORT ST. LUCIE IT DEPARTMENT, LOCATED AT 121 SW PORT ST. LUCIE BLVD AS IT WILL BE PROGRAMMED AND CONFIGURED WITH THE APPROPRIATE IP CONFIGURATIONS AND SECURITY FEATURES BY THE CITY'S IT DEPARTMENT. PLEASE CONTACT CHARLES MCCASKILL (IT MANAGER) 772-871-5143 WITH ANY QUESTIONS. CONTRACTOR SHALL CONTACT TRAFFIC DIVISION TO DETERMINE WHICH SWITCH WILL BE APPROPRIATE FOR INSTALL.
- TRAFFIC MONITORING CAMERA SHALL BE BOSCH AUTODOME IP STARLIGHT 7000 HD PAN TILT ZOOM. SHALL HAVE SURGE & LIGHTNING PROTECTION, AND SHALL BE MOUNTED WITH MAST-ON-BRACKET AND WIRE AS IT WILL BE PROGRAMMED AND CONFIGURED WITH THE APPROPRIATE IP CONFIGURATIONS AND SECURITY FEATURES BY THE CITY'S IT DEPARTMENT. PLEASE CONTACT CHARLES MCCASKILL (IT MANAGER) 772-871-5143 WITH ANY QUESTIONS. CONTRACTOR SHALL CONTACT TRAFFIC DIVISION TO DETERMINE WHICH SWITCH WILL BE APPROPRIATE FOR INSTALL.
- ALL PATCH CABLES, SPLITTERS AND MISC. MATERIALS REQUIRED FOR THE INSTALLATION OF TRAFFIC MONITORING EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. INSTALLED PATCH CABLES SHALL MATCH EXISTING PATCH CABLE DIMENSIONS AND TYPE. ANY DEVIATIONS SHALL BE APPROVED BY TRAFFIC DIVISION.
- SIGNAL CONDUCTOR SHALL PASS THROUGH HOLE IN PELCO/ASTRO MOUNTING BRACKET, INTO SIGNAL MOUNTING PIPE AND INTO SIGNAL, SO CABLE IS NOT EXPOSED TO THE ELEMENTS.
- FIVE-SECTION SIGNAL HEADS SHALL HAVE AN ADDITIONAL TERMINAL STRIP INSTALLED IN THE RED BALL SIGNAL HEAD WITH A RED AND NEUTRAL JUMPER WIRE ATTACHED FOR THE EASE OF REPLACING THE RED BALL LED SIGNAL.
- ALL SIGNAL HEADS SHALL HAVE BACK PLATES INSTALLED USING ALL NECESSARY HARDWARE ACCORDING TO LATEST FDOT STANDARDS.
- CONTRACTOR SHALL NOT USE WIRE NUTS ANYWHERE WITHIN THE CONTROLLER CABINET, STREET LIGHT CIRCUIT OR SIGNAL CIRCUIT. APPROVED CONNECTIONS ARE TERMINAL STRIPS, WATER TIGHT BUTT SPLICES (RUBBER TAPE ELECTRICAL TAPE, SCOTCH COE) AND SPLIT BOLTS.
- ALL SIGNAL UPRIGHT HAND HOLES SHALL HAVE TERMINAL STRIPS INSTALLED FOR THE TERMINATION OF SIGNAL CONDUCTOR FROM THE CONTROLLER CABINET TO THE SIGNAL HEADS/PEDESTRIAN SIGNALS.
- ALL GROUND WIRING WITHIN PULL BOXES REQUIRING TERMINATION TO GROUND ROD SHALL BE ATTACHED USING CAD WELD IDENTIFIERS.
- SIGNAL CONDUCTOR WITHIN CONTROLLER CABINET SHALL COMPLETELY ENCRUISE INSIDE OF CABINET BEFORE TERMINATION TO ALLOW SLACK FOR KNOCK DOWNS.
- ALL SPARE SIGNAL CONDUCTOR WITHIN CONTROLLER CABINET SHALL BE TERMINATED DIRECTLY TO GROUND/NEUTRAL BARS.
- ALL SIGNAL CONDUCTOR WITHIN THE UPRIGHT HAND HOLE AND CONTROLLER CABINET SHALL BE PROPERLY LABELED USING FLAG TIE WRAPS.
- ALL DETECTION CAMERA PELCO BRACKETS SHALL BE DRILLED AND TAPPED FOR 1/4-20 SET SCREW AFTER INSTALLATION TO PREVENT CAMERA FROM LAYING OVER IN HIGH WINDS.
- WEEP HOLES SHALL BE DRILLED IN ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN SIGNALS.
- ANTI SEIZE SHALL BE USED ON ALL MOUNTING HARDWARE FOR SIGNAL/CAMERA BRACKETS.
- THE FOLLOWING ITEMS SHALL BE USED FOR FIBER OPTIC INTERCONNECT:
 - PULL BOX (FIBER OPTIC) - TIER 15 (MIN.)
 - BOX: QUAZITE - P01730B018 - 17" X 30" X 18" DEEP, COVER: QUAZITE - P01730C000
 - BOX: SYNERTECH - S1730B018A - 17" X 30" X 18" DEEP, COVER: SYNERTECH - S1730B00A
 - SPLICE BOX (FIBER OPTIC) - TIER 15 (MIN.)
 - BOX: QUAZITE - P03048B00 - 30" X 48" X 36" DEEP, COVER: QUAZITE - P03048HC00
 - BOX: OLDCASTLE - 3048-36 - 30" X 48" X 36" DEEP, COVER: OLDCASTLE - UNI-HALF 3048
 - SPLICE CLOSURES (FIBER OPTIC): TYCO FOSC-450-C6-6-NI-D-OSV
 - ENCLOSURE SPLICE TRAY: FOSC-ACC-C-TRAY-24
 - BASKET: FOSC-ACC-C-BASKET
 - FIBER OPTIC CABLE
 - CORNING/SIECOR - 096E14-14701D20 - 96 FIBER ALTOS GEL-FREE CABLE NON-ARMORED SMF 1.4/0.4/0.3 DB/KM 12F/TUBE PRINT IN FT.
 - CORNING/SIECOR - 012E14-14701D20 - 12 FIBER ALTOS GEL-FREE CABLE NON-ARMORED SMF 1.4/0.4/0.3 DB/KM 12F/TUBE PRINT IN FT.
- THE FOLLOWING FIBER OPTIC AND CABINET DEVICE PAY ITEMS SHALL BE INCORPORATED INTO THE SIGNALIZATION PLANS FOR EACH INTERSECTION:
 - CCTV ITEMS
 - VIDEO DATA SERIAL CONVERTER (F&I) 1 EA
 - COPPER DATA PATCH CABLES 5 (F&I) 1 EA
 - CAMERA ASSEMBLY: BOSCH AUTODOME IP STARLIGHT 7000 HD, SMOKE LENS W/ COMPOSITE CABLE & GASKET (F&I) 1 EA
 - CCTV MOUNT, MASTBRAC & NEOPRENE WRAP (F&I) 1 EA
 - VIDEO COAX PATCH CABLES W/ SPLITTER (F&I) 1 EA
 - CCTV MAINTENANCE UNIT (SURGE ARRESTOR PANEL FOR POWER, DATA, VIDEO W/ INTERFACE) (F&I) 1 EA
 - MULTI-VOLTAGE POWER SUPPLY MODULE (F&I) 1 EA
 - ELECTRONICS
 - RUGGEDCOM-RS9000-FO-ETHERNET-SWITCH-1000BASEF-20PT-80U (F&I) 1 EA
 - CISCO INDUSTRIAL 4000 807804G-E FO ETHERNET SWITCH 1000BASEF, 20PT-20CU POE (F&I) 1 EA
 - FIBER OPTIC CABLE OSP
 - 101-1 MOBILIZATION AND DOCUMENTATION LS
 - TW TRACER WIRE W/ RADIO DETECTION SYSTEM BALANCING FOR CITYWIDE LOCATE SYSTEM (F&I) LF
 - FO CABLE 96F, SM, LT, UG (F&I) LF
 - DM ROW DELINEATOR MARKER POST ORANGE 6' (F&I) 1 EA
 - FO CABLE 12F, SW, DROP, CABLE (F&I) LF
 - FO CONNECTION (INSTALL) SPLICE 1 EA
 - FO CONNECTION (INSTALL) TERMINATION 1 EA
 - FO SPLICE-TERM. CABINET, 12F, WALL/TRACK (F&I) 1 EA
 - FO JUMPER, DUPLEX ST-ST, SM, 10' (F&I) 1 EA
 - FO JUMPER, DUPLEX SC-ST, SM, 10' (F&I) 1 EA
 - FO JUMPER, DUPLEX LC-ST, SM, 10' (F&I) 1 EA
 - FO SPLICE CLOSURE 12F, AERIAL/UG (F&I) 1 EA
 - FO PULLBOX (F&I) 1 EA
 - FO SPLICEBOX (F&I) 1 EA
- THE CITY SHALL BE SUPPLIED WITH ONE (1) HONDA EU 3000I PORTABLE INVERTER GENERATOR (OR EQUIVALENT) UPON COMPLETION OF THE TRAFFIC SIGNAL. IT SHALL BE EQUIPPED WITH ELECTRONIC START AND WHEELS.
- IN ADDITION TO THE ABOVE GENERAL NOTES, IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE ADDITIONAL GENERAL NOTES AND PAY ITEM FOOT NOTES SPECIFIC TO THE PROJECT ARE INCLUDED IN THE CONSTRUCTION PLANS AND SUBMITTED FOR CITY APPROVAL.
- PORT ST. LUCIE BLVD SIGNALS OPERATE AS PART OF AN ECONOLITE EDAPTIVE SYSTEM. APPROPRIATE HARDWARE WILL NEED TO BE INSTALLED. COORDINATION WITH ECONOLITE WILL BE THE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION. PLEASE CONTACT PAUL JOHNSON 772-370-1774.



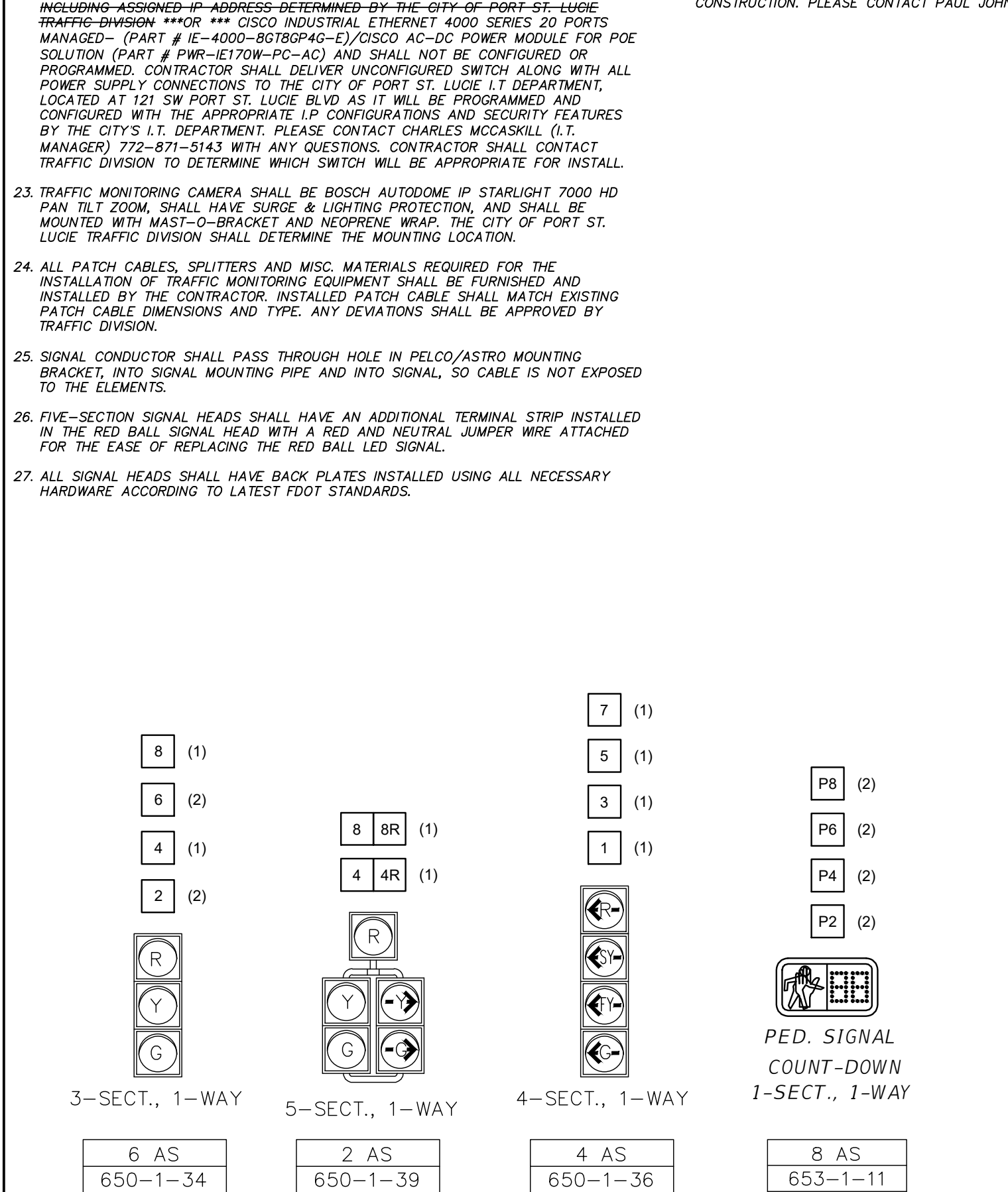
- NOTES:**
- ALL (B) EXIST. PEDESTRIAN SIGNALS AND DETECTORS TO BE REPLACED.
 - ALL EXIST. TRAFFIC SIGNAL PULL/SPLICE BOXES IN TO BE REPLACED.
 - EXIST. SW & SE STRAIN POLES FOR THE EXIST. SPAN-WIRE SIGNALS TO BE REMOVED. THE LUMINAIRES ON THE EXIST. NW & NE POWER POLES SHALL BE RETAINED AND NEW LUMINAIRES SHALL BE INSTALLED ON THE NEW SW & SE SIGNAL POLES.
 - MARKING LINES DISPLAYED IN THIS PLAN IS JUST SHOWN FOR GUIDELINES FOR PLACEMENT OF SIGNALIZATION ELEMENTS. PLEASE USE SIGNING AND PAVEMENT MARKING PLAN FOR CONSTRUCTION OF MARKING LINES.



SIGNS SHALL BE SINGLE SIDED RIGID MOUNTED INTERNALLY ILLUMINATED WITH WHITE LEGEND AND GREEN BACKGROUND. ALL ILLUMINATED SIGNS SHALL BE CONTROLLED BY ONE PHOTO CELL LOCATED ON POLE #1.



MAST ARM MOUNTED



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

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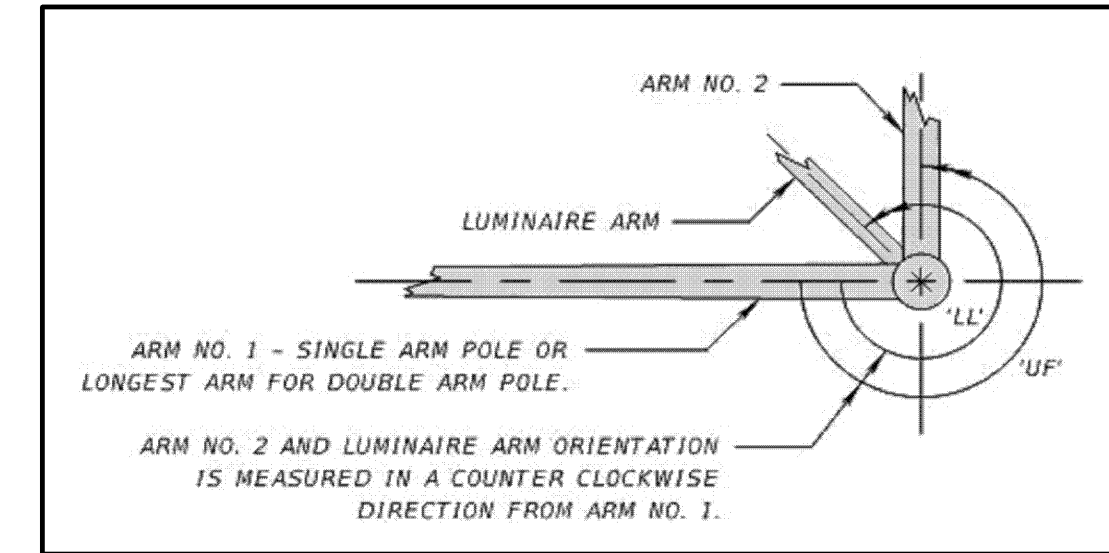
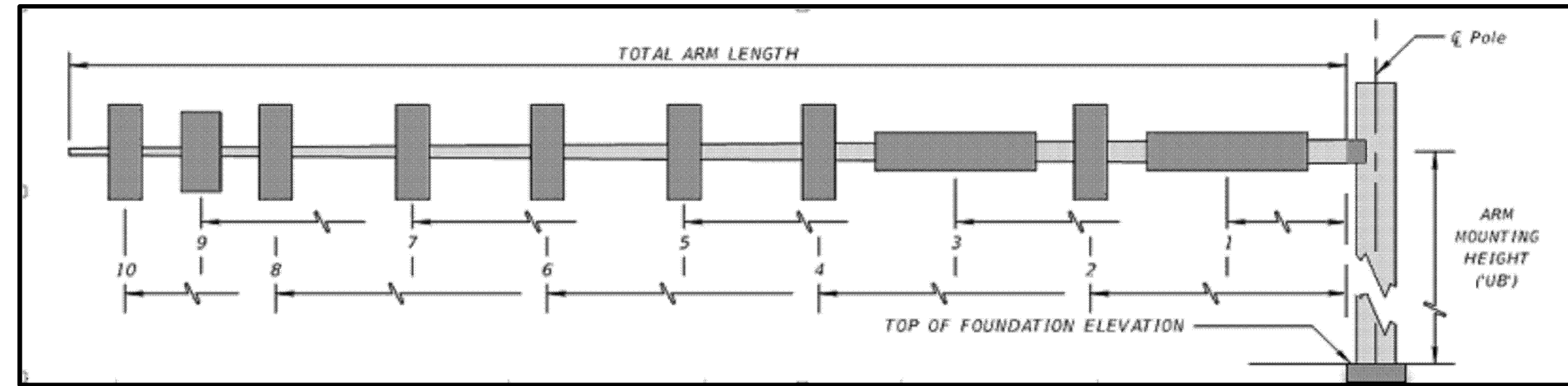
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PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS

SIGNAL PLAN

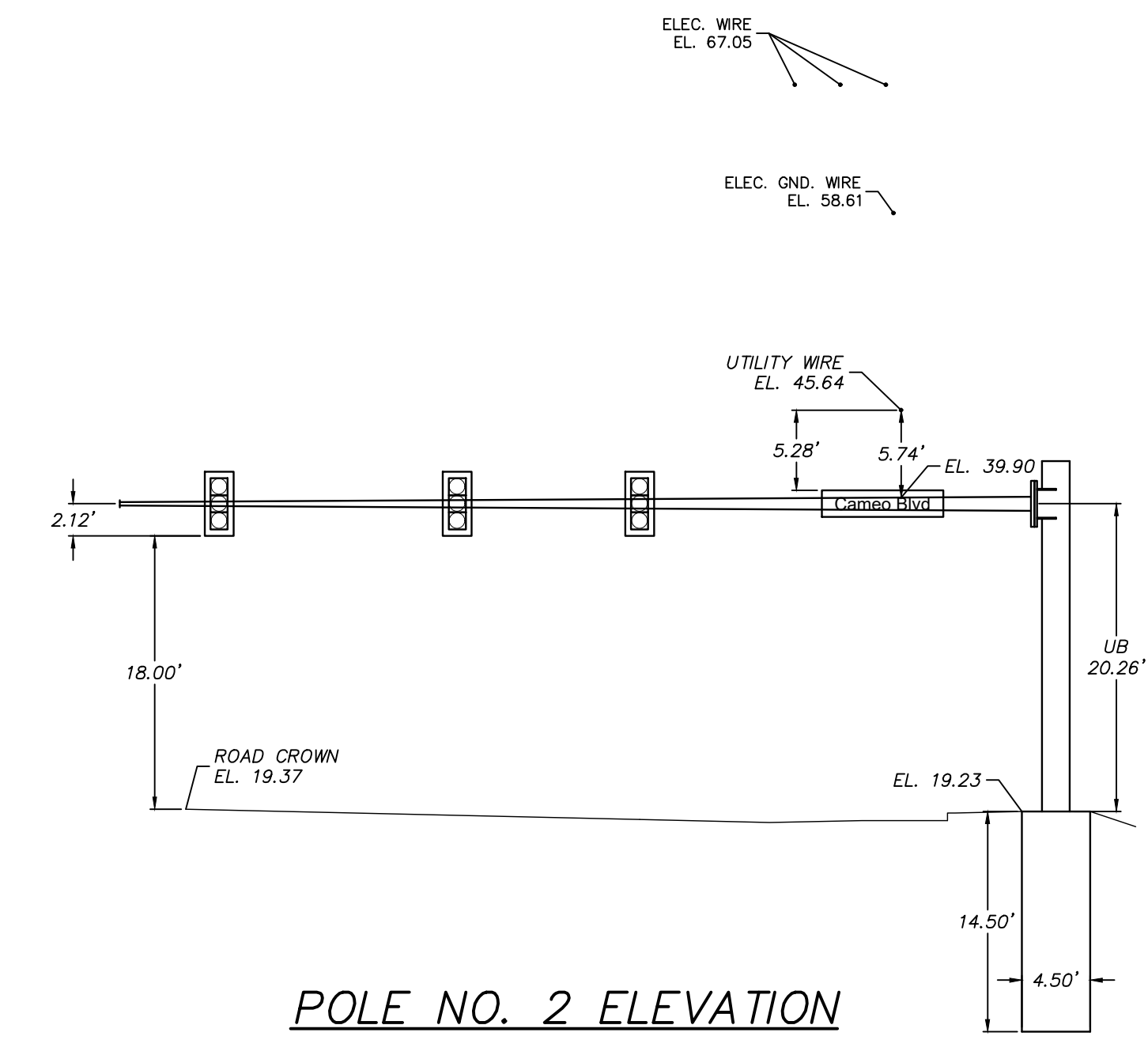
DATE: 10/30/2023
HORIZ. SCALE: 1"=20'
VERT. SCALE: N/A
JOB No. 22-185
SHEET 14 of 15





Mast Arm Assembly General Information												Signal/Sign Location (Distance from CL of Pole) and Size (# Heads or Sign Width x Height)						Mast Arm Assembly Designation & Dimensions (17743 & 5)										
ID No.	Sheet No.	Station	Top of Shaft Elev.	Roady Crown Elev.	Paint Color	Ped. Signal Yes/No	Signal Vert/ Horiz	Backplates	Luminaire Yes/No	Terminal Compartment Yes/No	Roadway Arm #	Total Arm Length	Signal/Sign 10	Signal/Sign 9	Signal/Sign 8	Signal/Sign 7	Signal/Sign 6	Signal/Sign 5	Signal/Sign 4	Signal/Sign 3	Signal/Sign 2	Signal/Sign 1	Standard Mast Arm Assembly Designation	Arm Mounting Ht. 'UB' (ft)	2 Arm Angle 'UF' (deg)	Lum. Angle 'LL' (deg)		
1	14	20+03.70 64.14' L	18.9	18.96		NO	Vert.	6 in	No		1	50						Dist=39.1' Signal: 4 Head	Dist=33.6' Sign: 2.5'x2.5'	Dist=28.1' Signal: 3 Head	Dist=22.6' Camera	Dist=17.1' Signal: 5 Head	Dist=8' Sign: 8'x1.75'	A50/S-P3/S/L-DS/14/4.5	20.2			
2	14	19+23.53 58.35' L	19.23	19.37		NO	Vert.	6 in	No		1	60						Dist=53.7' Signal: 4 Head	Dist=48.2' Sign: 2.5'x2.5'	Dist=38' Signal: 3 Head	Dist=32' Camera	Dist=26' Signal: 3 Head	Dist=10' Sign: 8'x1.75'	A60/S-P4/S/L-DS/14/4.5	##			
3	14	19+27.06 63.81' R	19.10	18.55		NO	Vert.	6 in	Yes		1	50						Dist=37.6' Signal: 4 Head	Dist=32.1' Sign: 2.5'x2.5'	Dist=26.6' Signal: 3 Head	Dist=21.1' Camera	Dist=15.6' Signal: 5 Head	Dist=8' Sign: 8'x1.75'	A50/S-P3/S/L-DS/14/4.5	##	60		
4	14	20+12.86 61.66' R	18.57	19.81		NO	Vert.	6 in	Yes		1	60						Dist=55.1' Signal: 4 Head	Dist=49.6' Sign: 2.5'x2.5'	Dist=38.2' Signal: 3 Head	Dist=32.3' Camera	Dist=26.3' Signal: 3 Head	Dist=10' Sign: 8'x1.75'	A60/S-P4/S/L-DS/14/4.5	##	60		
											1																	
											2																	
											1																	
											2																	
											1																	
											2																	

Mast Arm Assembly Optional Dimensions (17745) and Special Instructions											
ID No.	Custom Arm Length, Pole Height & Shaft								Ped. Button	Ped. Signals	Handhole Loc.
	Arm 1 Length 'FAA' (ft.)	Arm 2 Length 'SAA' (ft.)	Pole Height 'UAA' (ft.)	Shaft Length 'DA' (ft.)	Shaft Dia. 'DB' (ft.)	Shaft Bar# 'RA'	Shaft No. Bars 'RB'	Shaft Tie No. Sp. 'RC'			



CITY OF PSL PROJECT NO. P23-_____ STEFAN K. MATTHEWS, P.E. FL. REG. NO. 38723



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DRAWN	DRP 05/15/23
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APPROVED	SKM 10/30/23

PORT ST. LUCIE BLVD & CAMEO BLVD INTERSECTION IMPROVEMENTS

SIGNAL TABULATION

P:\Proj-2022\22-185 PSL Blvd & Cameo Blvd Intersection Improvements\Eng\22-185 Signalization Plan.dwg Printed: 10/30/2023 8:24 AM By: KITHSIRI UDUOGAMA