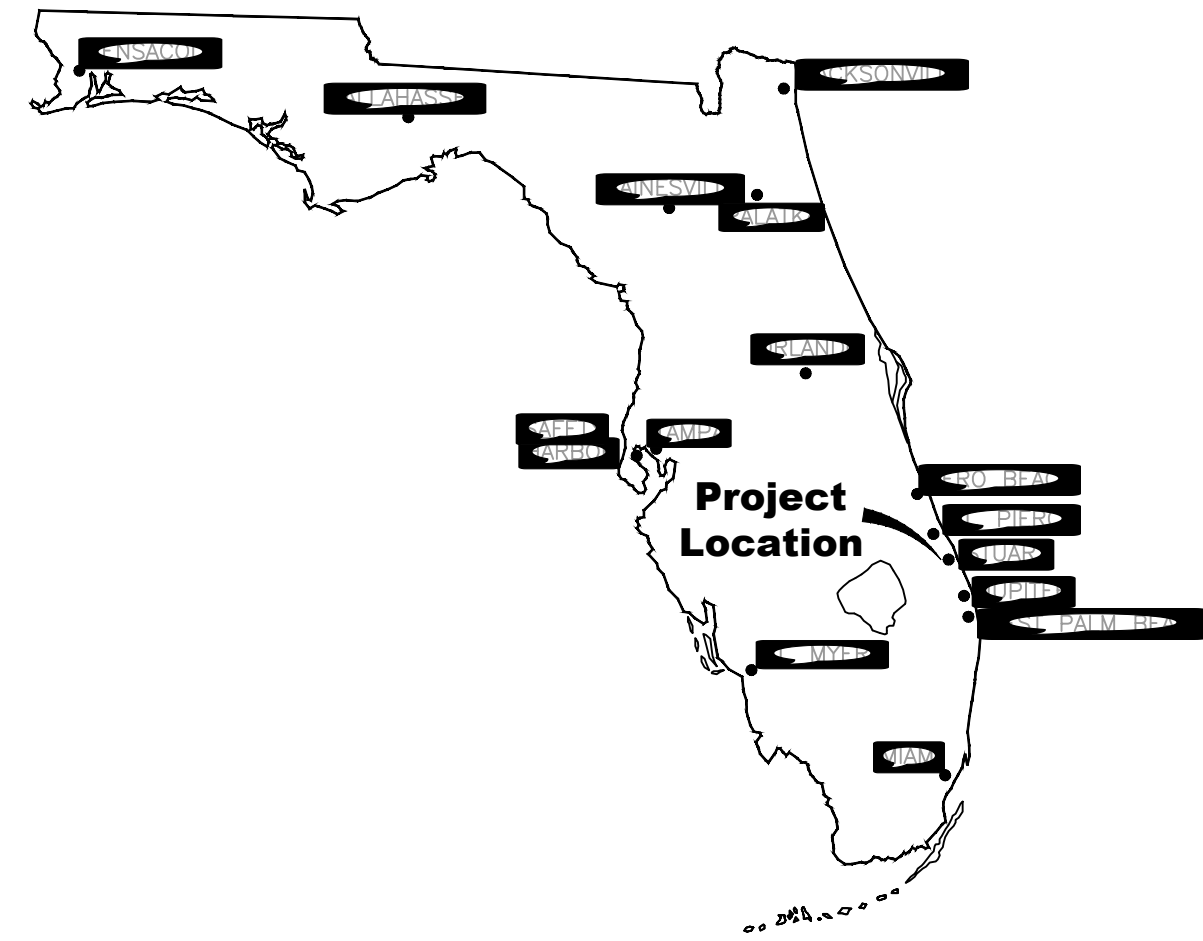


ROADWAY AND DRAINAGE PLAN S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1- PART 2/3 STORMWATER RETROFIT



TOWN OF SEWALL'S POINT



LOCATION MAP

**LYING IN
SECTION 1, TOWNSHIP 38 S. , RANGE 41 E.
TOWN OF SEWALL'S POINT, FLORIDA**

NOTES:
THESE PLANS ARE IN ENGLISH UNITS
ALL ELEVATIONS HEREIN REFERENCE N.A.V.D.
1988 DATUM. ADD 1.48 FEET TO CONVERT TO
N.G.V.D. 1929 DATUM. ALL CONSTRUCTION IS TO
BE IN ACCORDANCE WITH FLORIDA DEPARTMENT
OF TRANSPORTATION STANDARDS AND
SPECIFICATIONS.

ENGINEER

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TOWN OF SEWALL'S POINT

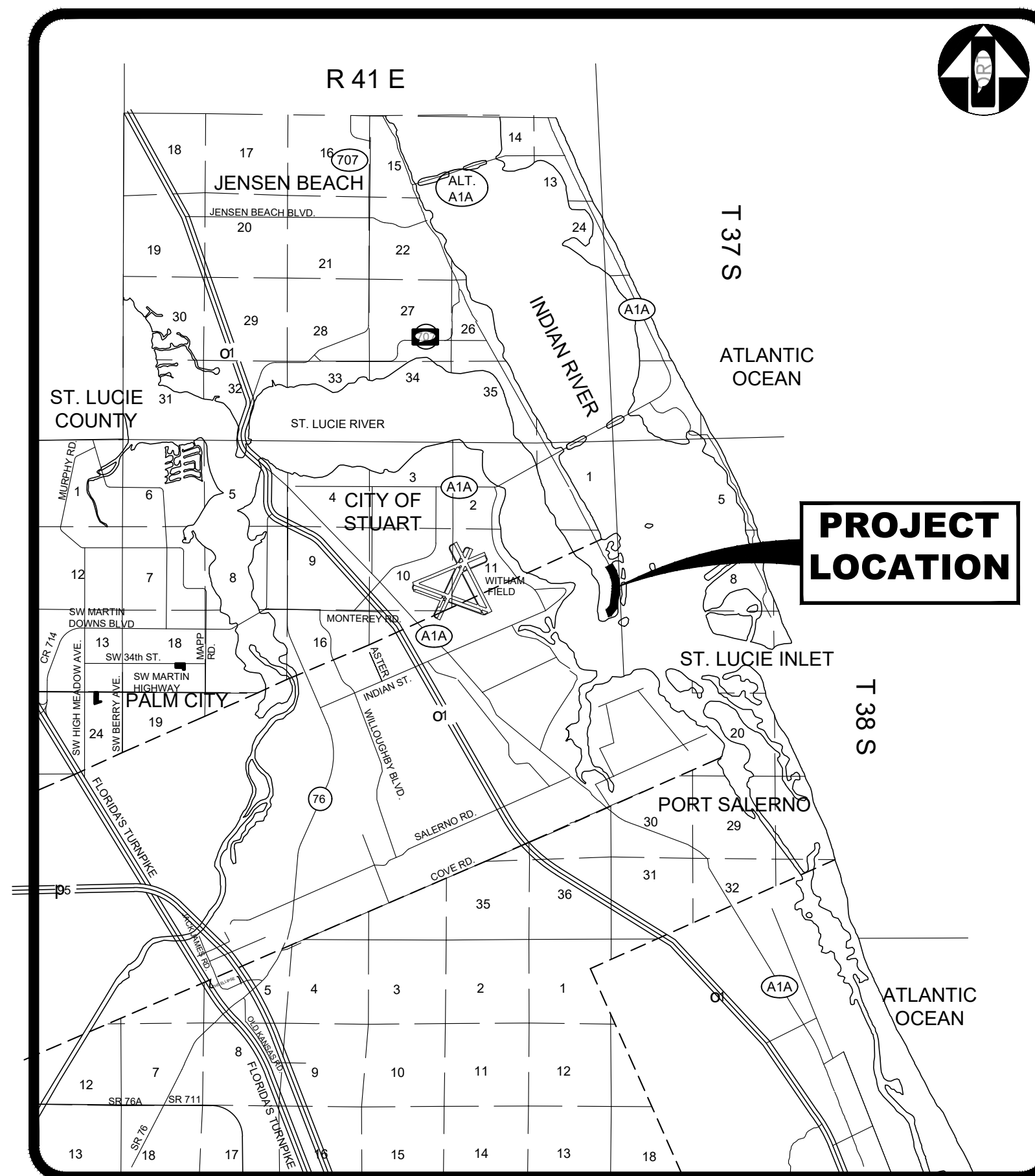
FRANK FENDER
VINNY BARILE
JAMES CAMPO
DAVE KURZMAN
KAIIA MAYFIELD

MAYOR
VICE MAYOR
COMMISSIONER
COMMISSIONER
COMMISSIONER

NOTE: THESE PLANS ARE IN ENGLISH UNITS.
THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE
STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION:
DESIGN STANDARDS DATED 2019.
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED JULY 2019.
THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN,
CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS
(GREENBOOK) DATED 2016.
THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON
UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, (MUTCD 2009)

SHEET INDEX

SHEET NUMBER	SHEET TITLE / DESCRIPTION
1	COVER
2	OVERALL DRAINAGE AND UTILITY PLAN
3	PROJECT LAYOUT
4	EROSION CONTROL
5-6	TYPICAL SECTIONS
7-12	PLAN AND PROFILE
13-15	CROSS SECTIONS
16	OUTFALL WITH BACKUP PUMP SYSTEM
17	STORM WATER TREATMENT AREA (STA) & PUMP
18	PAVEMENT MARKING AND SIGNAGE
19	DETAILS
20	SOIL BORINGS
21-22	UTILITY ADJUSTMENT
23	UTILITY ADJUSTMENT - MANDALAY
24	GENERAL NOTES
25-26	UTILITY DETAILS
1-2	TREATMENT AREA PLANTING PLAN (STA)
E1-E3	ELECTRICAL PLANS



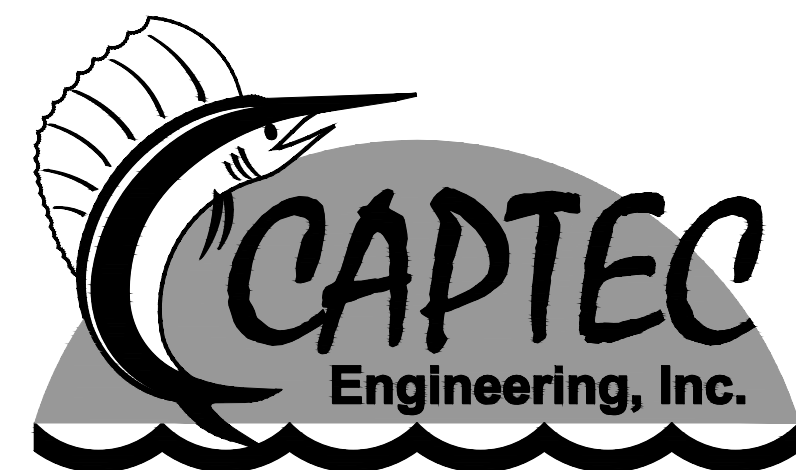
Vicinity Map



Site Map

ADDENDUM NO. 1, 1-24-20
ADDENDUM NO. 2, 2-07-20
ADDENDUM NO. 3, 2-18-20
ADDENDUM NO. 4, 2-27-20 SHEET 17

AFC (APPROVED FOR
CONSTRUCTION)
4-22-21



Civil Engineering Professionals

Engineering Business
No. EB-0007657

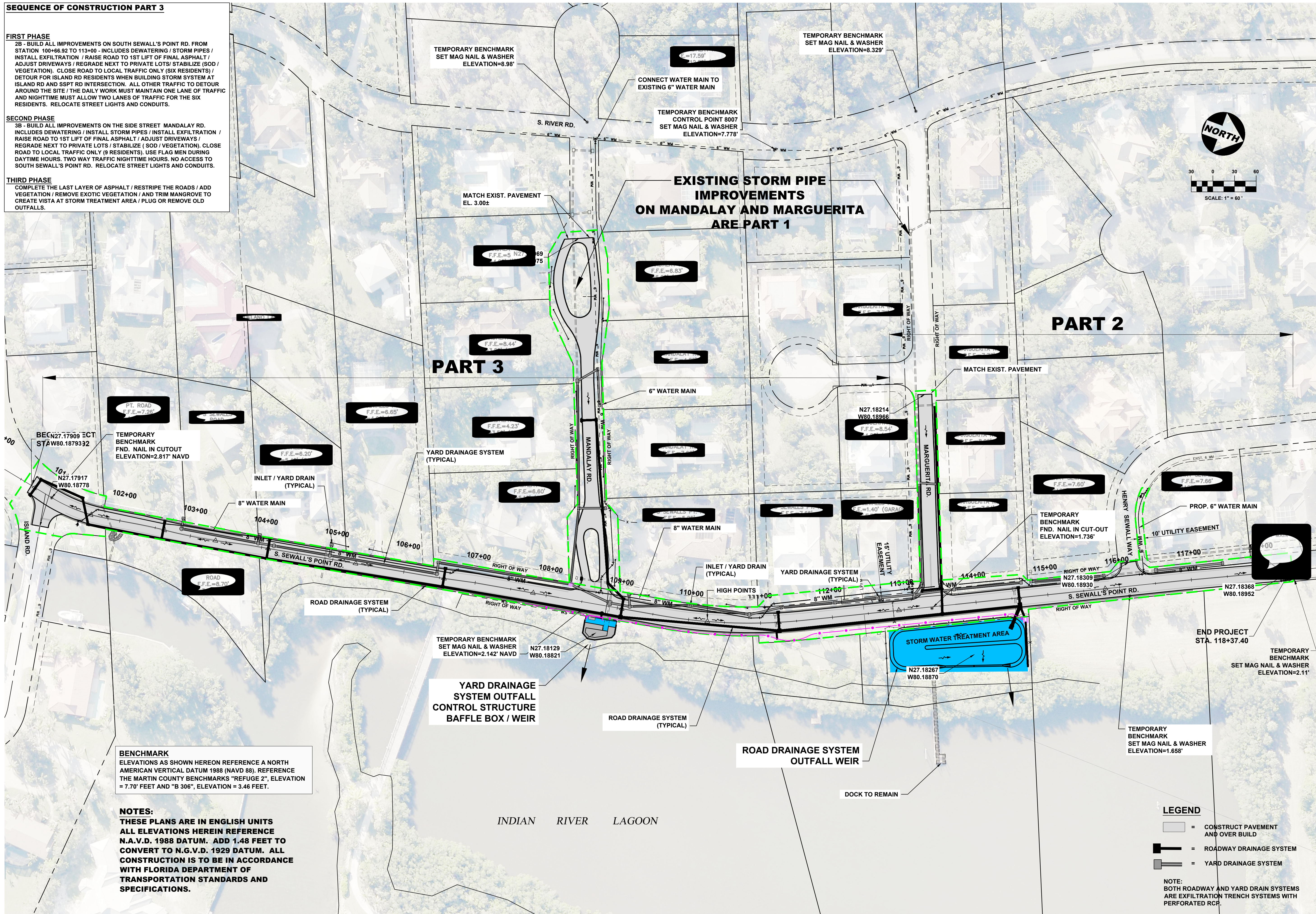
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SEQUENCE OF CONSTRUCTION PART 3

FIRST PHASE
 2B - BUILD ALL IMPROVEMENTS ON SOUTH SEWALL'S POINT RD. FROM STATION 100+66.92 TO 113+00 - INCLUDES DEWATERING / STORM PIPES / INSTALL EXFILTRATION / RAISE ROAD TO 1ST LIFT OF FINAL ASPHALT / ADJUST DRIVEWAYS / REGRADE NEXT TO PRIVATE LOTS / STABILIZE (SOD / VEGETATION). CLOSE ROAD TO LOCAL TRAFFIC ONLY (SIX RESIDENTS) / DETOUR FOR ISLAND RD RESIDENTS WHEN BUILDING STORM SYSTEM AT ISLAND RD AND SSPT RD INTERSECTION. ALL OTHER TRAFFIC TO DETOUR AROUND THE SITE / THE DAILY WORK MUST MAINTAIN ONE LANE OF TRAFFIC AND NIGHTTIME MUST ALLOW TWO LANES OF TRAFFIC FOR THE SIX RESIDENTS. RELOCATE STREET LIGHTS AND CONDUITS.

SECOND PHASE
 3B - BUILD ALL IMPROVEMENTS ON THE SIDE STREET MANDALAY RD. INCLUDES DEWATERING / INSTALL STORM PIPES / INSTALL EXFILTRATION / RAISE ROAD TO 1ST LIFT OF FINAL ASPHALT / ADJUST DRIVEWAYS / REGRADE NEXT TO PRIVATE LOTS / STABILIZE (SOD / VEGETATION). CLOSE ROAD TO LOCAL TRAFFIC ONLY (9 RESIDENTS). USE FLAG MEN DURING DAYTIME HOURS. TWO WAY TRAFFIC NIGHTTIME HOURS. NO ACCESS TO SOUTH SEWALL'S POINT RD. RELOCATE STREET LIGHTS AND CONDUITS.

THIRD PHASE
 COMPLETE THE LAST LAYER OF ASPHALT / RESTRIPE THE ROADS / ADD VEGETATION / REMOVE EXOTIC VEGETATION / AND TRIM MANGROVE TO CREATE VISTA AT STORM TREATMENT AREA / PLUG OR REMOVE OLD OUTFALLS.



EXISTING STORM PIPE IMPROVEMENTS ON MANDALAY AND MARGUERITA ARE PART 1

PART 2

PART 3

BENCHMARK
 ELEVATIONS AS SHOWN HEREON REFERENCE A NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88). REFERENCE THE MARTIN COUNTY BENCHMARKS "REFUGE 2", ELEVATION = 7.70' FEET AND "B 306", ELEVATION = 3.46 FEET.

NOTES:
 THESE PLANS ARE IN ENGLISH UNITS ALL ELEVATIONS HEREIN REFERENCE N.A.V.D. 1988 DATUM. ADD 1.48 FEET TO CONVERT TO N.G.V.D. 1929 DATUM. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

- LEGEND**
- = CONSTRUCT PAVEMENT AND OVER BUILD
 - = ROADWAY DRAINAGE SYSTEM
 - = YARD DRAINAGE SYSTEM
- NOTE: BOTH ROADWAY AND YARD DRAIN SYSTEMS ARE EXFILTRATION TRENCH SYSTEMS WITH PERFORATED RCP.

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Civil Engineering Professionals
 No. EB-00767

DATE: 1/28/19
 DRAWN BY: MDB
 DESIGNED BY: HLT
 CHECKED BY: JVC
 PROJECT NO.: 023-127
 HORIZ. SCALE: 1" = 60'
 VERT. SCALE: 1" = 60'
 CADD FILE:

NO.	DATE	BY	REVISIONS
1	4-22-21	MDB / AFC	BID SET
2	12-31-19	MDB	BID SET

SCALE VERIFICATION
 0 1
 SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED ACCORDINGLY.

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1 TOWN OF SEWALL'S POINT - FLORIDA
OVERALL DRAINAGE AND UTILITY PLAN

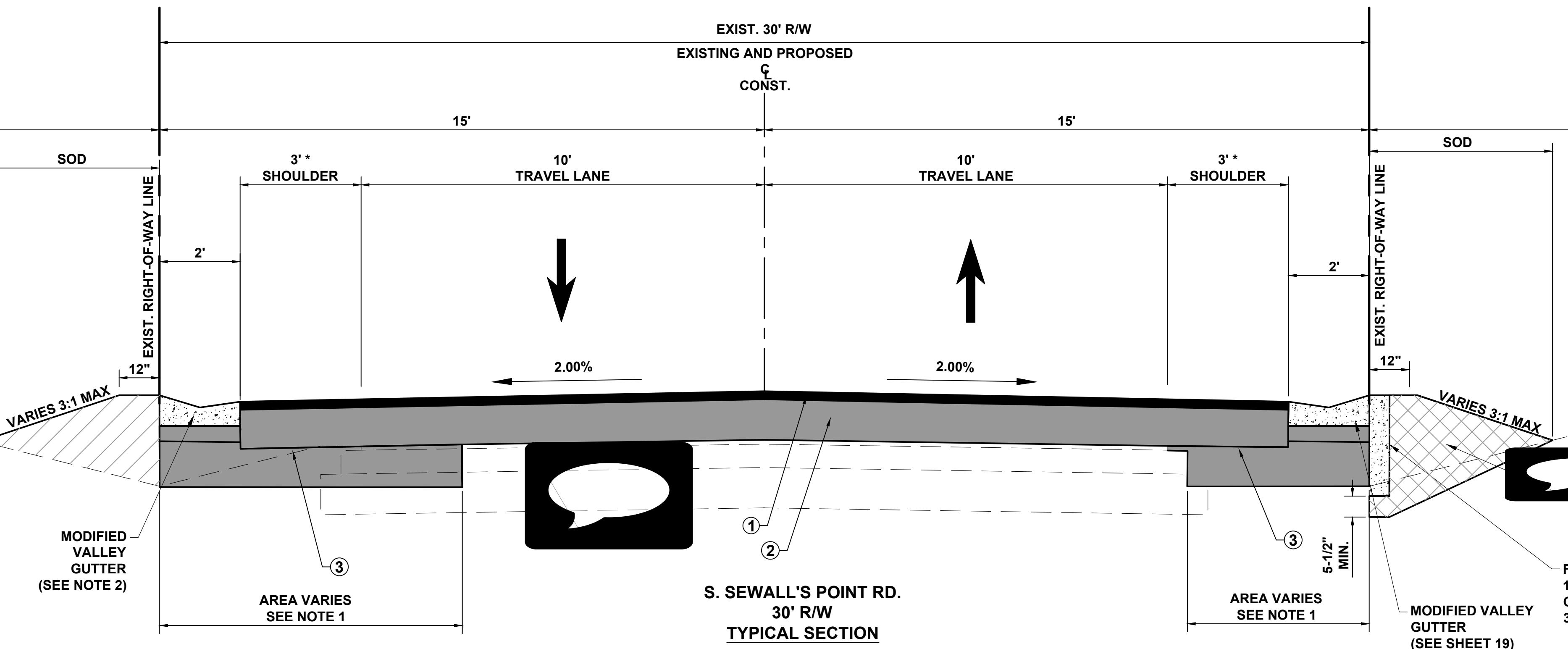
Joseph W. Capra
 301 N.W. Flagler Ave.
 Stuart, Florida 34994
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TEMPORARY
CONSTRUCTION
EASEMENT - VARIES
SEE CROSS SECTIONS

TEMPORARY
CONSTRUCTION
EASEMENT - VARIES
SEE CROSS SECTIONS

DESIGN SPEED 40 MPH
POSTED SPEED 35 MPH

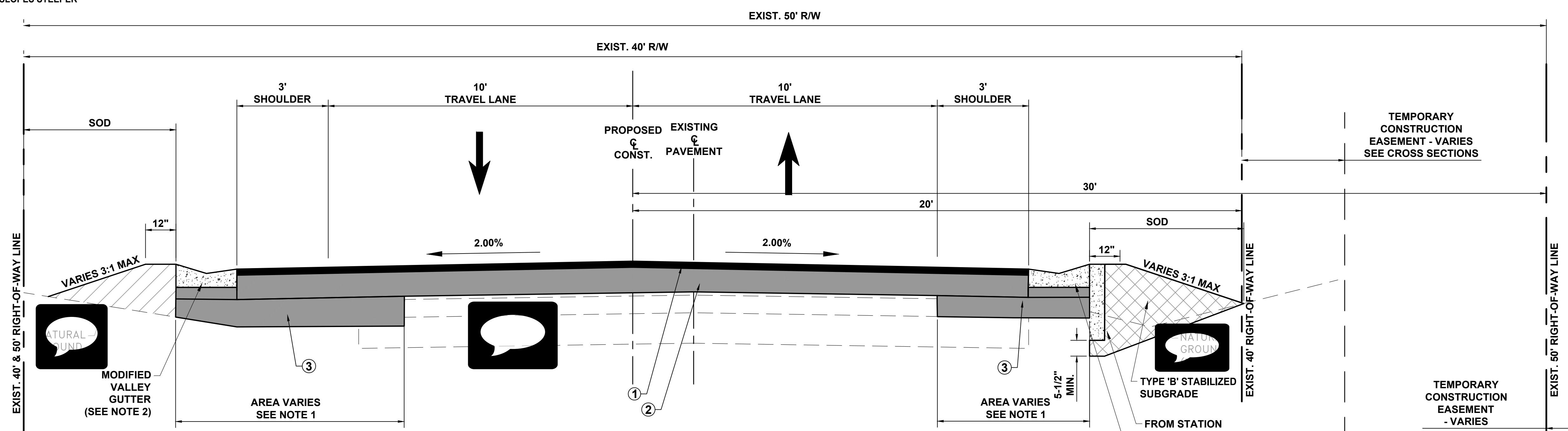
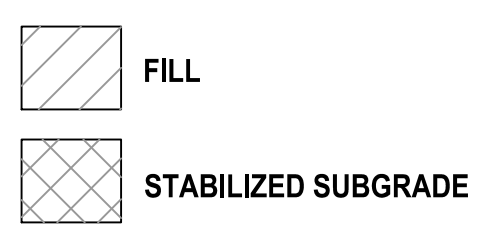


S. SEWALL'S POINT RD.
30' R/W
TYPICAL SECTION

* PART 3 SPECIAL NOTE:
STA: 102+22.45 TO 103+98.46
3' SHOULDERS REMOVED
CONSTRUCT 20' OF PAVEMENT AND 2' WIDE VALLEY GUTTERS.
SHARE THE ROAD SIGNS TO BE INSTALLED, SEE PAVEMENT MARKING.
SEE PLAN AND PROFILES, CROSS SECTIONS FOR SLOPES ETC. .

- NOTES**
- AREAS OF NEW CONSTRUCTION AND PAVEMENT REPLACEMENT OVER UTILITY AND DRAINAGE INSTALLATION COULD VARY WITHIN ANY AREA OF THE PROPOSED ROADWAY
 - MINIMUM OF 5-1/2" TYPE B-12-5 BASE UNDER ALL CURBS
 - SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS, SLOPES AND TEMPORARY CONSTRUCTION EASEMENTS INDICATED AS VARIES.
 - ALL DISTURBED AREAS WITHIN RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING SOD.
 - VARIES 3:1 SIDE SLOPE MEANS NO SLOPES STEEPER THAN 3:1 (TYP.)

- MILL A MINIMUM OF 1/2" PRIOR TO OVERLAY EXISTING PAVEMENT.
2 1/2" TYPE SP-9.5 LEVEL C ASPHALT (2 LIFTS)
- TYPE B-12-5 (MIN. LBR 100) / ASPHALT BASE
(TO BE USED FOR OVERBUILD OF EXISTING PAVEMENT)
- MIN. 5.5" TYPE B-12-5 (MIN. LBR 100)
(IN AREAS OF NEW CONSTRUCTION AND PAVEMENT REPLACEMENT OVER UTILITY AND DRAINAGE INSTALLATION)



S. SEWALL'S POINT RD.
40' / 50' R/W
TYPICAL SECTION

TEMPORARY
CONSTRUCTION
EASEMENT - VARIES
SEE CROSS SECTIONS

TEMPORARY
CONSTRUCTION
EASEMENT
- VARIES

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Civil Engineering Professionals
Engineering Business
No. EB-007657

DATE:	7/26/19
DRAWN BY:	MDB
DESIGNED BY:	JLT
CHECKED BY:	JWC
PROJECT NO.:	023-127
HORIZ. SCALE:	
VERT. SCALE:	
CADD FILE:	

NO.	DATE	BY	REVISIONS
1	4-22-21	MDB	AFC
2	12-31-19	MDB	BID SET

SCALE VERIFICATION

1
0

SOLID BAR IS EQUAL TO ORIGINAL DRAWING DIMENSIONS ACCORDINGLY

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT - FLORIDA

TYPICAL SECTIONS

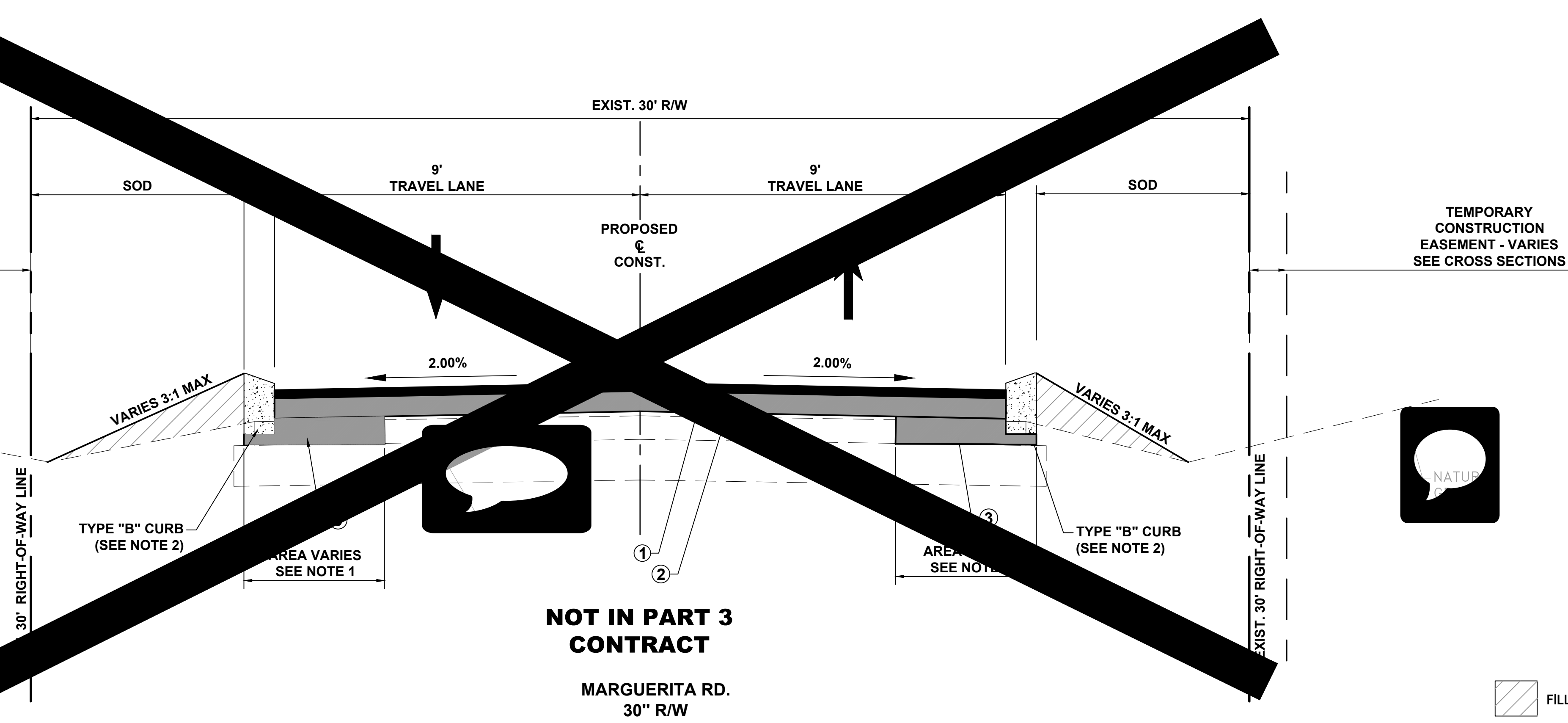
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TEMPORARY CONSTRUCTION EASEMENT - VARIES SEE CROSS SECTIONS



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POSTED SPEED 30 MPH



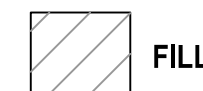
NOT IN PART 3 CONTRACT

MARGUERITA RD.
30" R/W
TYPICAL SECTION

- ① MILL A MINIMUM OF 1/2" PRIOR TO OVERLAY EXISTING PAVEMENT.
2 1/2" TYPE SP-9.5 LEVEL C ASPHALT (2 LIFTS)
- ② TYPE B-12-5 (MIN. LBR 100) / ASPHALT BASE
(TO BE USED FOR OVERBUILD OF EXISTING PAVEMENT)
- ③ MIN. 5.5" TYPE B-12-5 (MIN. LBR 100)
(IN AREAS OF NEW CONSTRUCTION AND PAVEMENT REPLACEMENT OVER UTILITY AND DRAINAGE INSTALLATION)

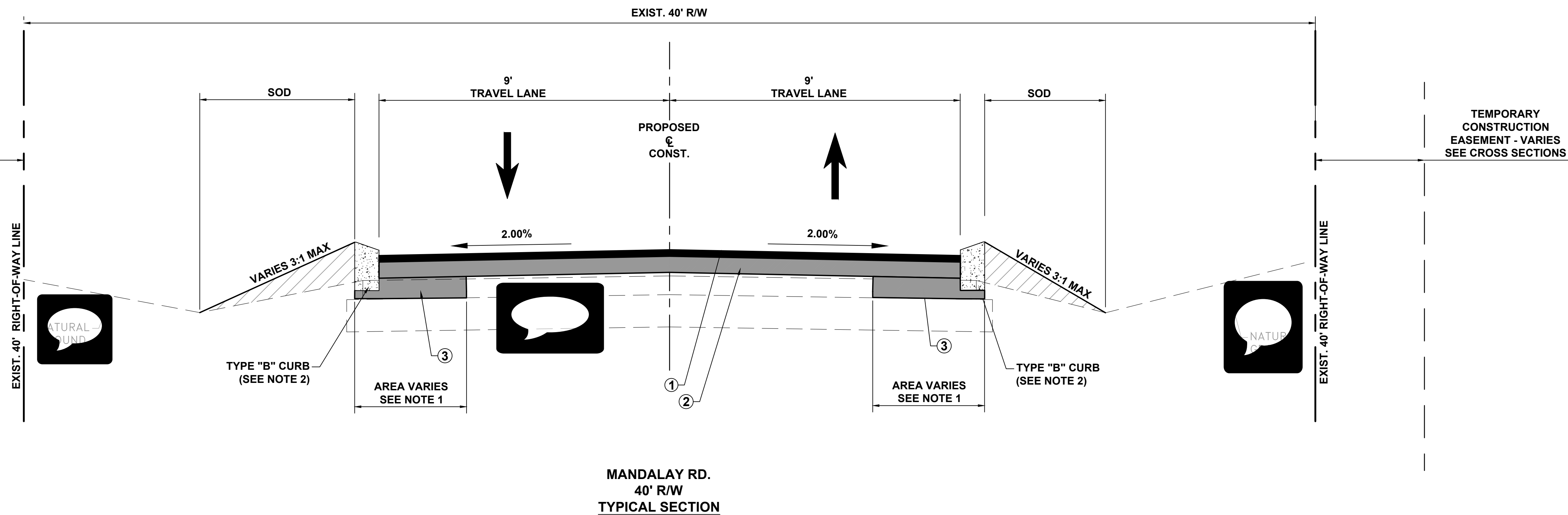
NOTES

1. AREAS OF NEW CONSTRUCTION AND PAVEMENT REPLACEMENT OVER UTILITY AND DRAINAGE INSTALLATION COULD VARY WITHIN ANY AREA OF THE PROPOSED ROADWAY
2. MINIMUM OF 5-1/2" TYPE B-12-5 BASE UNDER ALL CURBS
3. SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS, SLOPES AND TEMPORARY CONSTRUCTION EASEMENTS INDICATED AS VARIES.
4. ALL DISTURBED AREAS WITHIN RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING SOD.
5. VARIES 3:1 SIDE SLOPE MEANS NO SLOPES STEEPER THAN 3:1 (TYP.)



FILL

TEMPORARY CONSTRUCTION EASEMENT - VARIES SEE CROSS SECTIONS



MANDALAY RD.
40' R/W
TYPICAL SECTION

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Civil Engineering Professionals
No. EB-007657

DATE:	7/26/19
DRAWN BY:	MDB
DESIGNED BY:	JLT
CHECKED BY:	JWC
PROJECT NO.:	023-127
HORIZ. SCALE:	
VERT. SCALE:	
CADD FILE:	

NO.	DATE	BY	REVISIONS
1	12-31-19	MDB	BID SET
2	4-22-21	MDB	AFC

SCALE VERIFICATION

1
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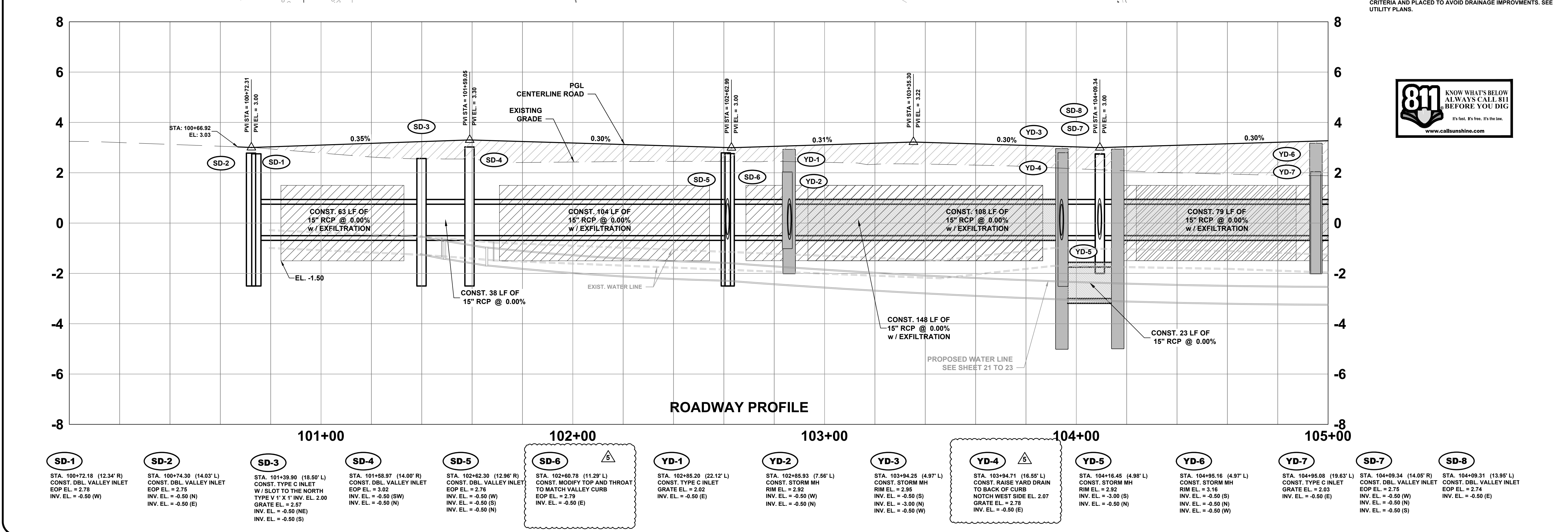
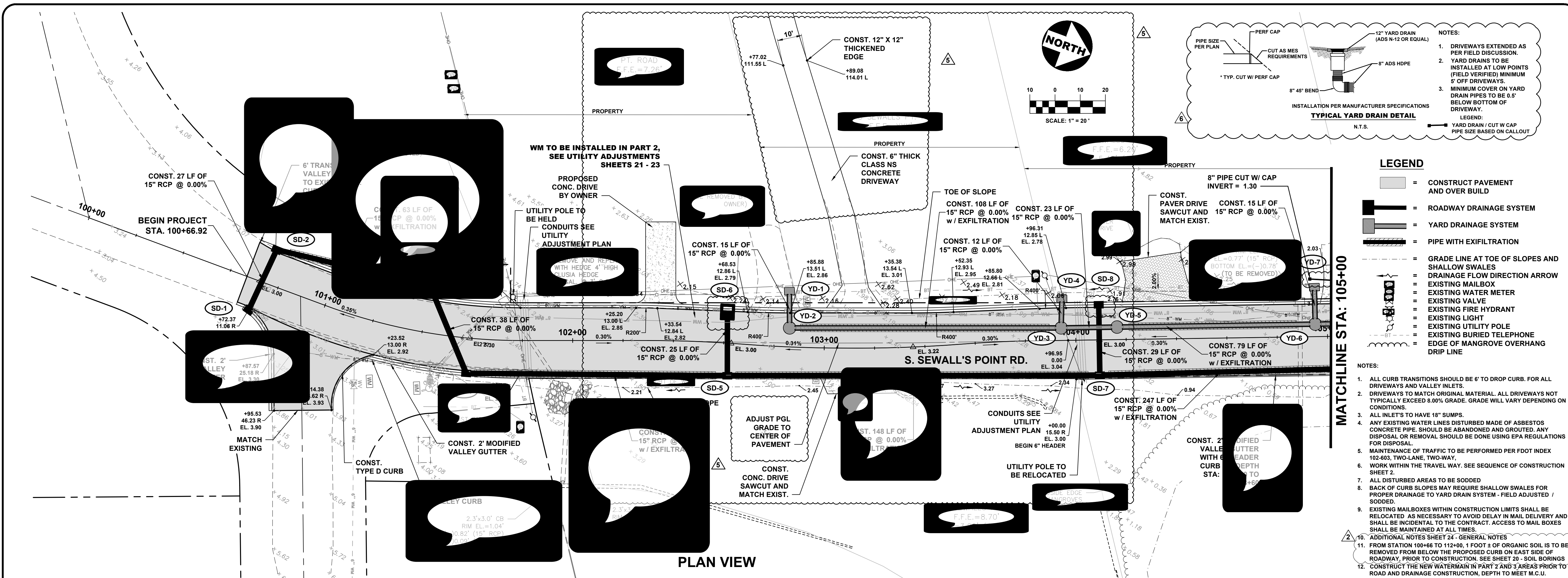
SOLID BAR IS EQUAL TO ORIGINAL DRAWING DIMENSIONS ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT - FLORIDA

TYPICAL SECTIONS

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 Civil Engineering Professionals
 No. EB-00767

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DATE: 12-31-19
 DRAWN BY: MD
 DESIGNED BY: HLT
 CHECKED BY: JMC
 PROJECT NO.: 023-127
 HORZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 2'

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
 TOWN OF SEWALL'S POINT - FLORIDA

Joseph W. Capra
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 Stuart, Florida 34994
 P.E. No. 37638

Printed Date:
 JOB No.: 023-127
 SHEET OF 26
 A 1-3

LEGEND

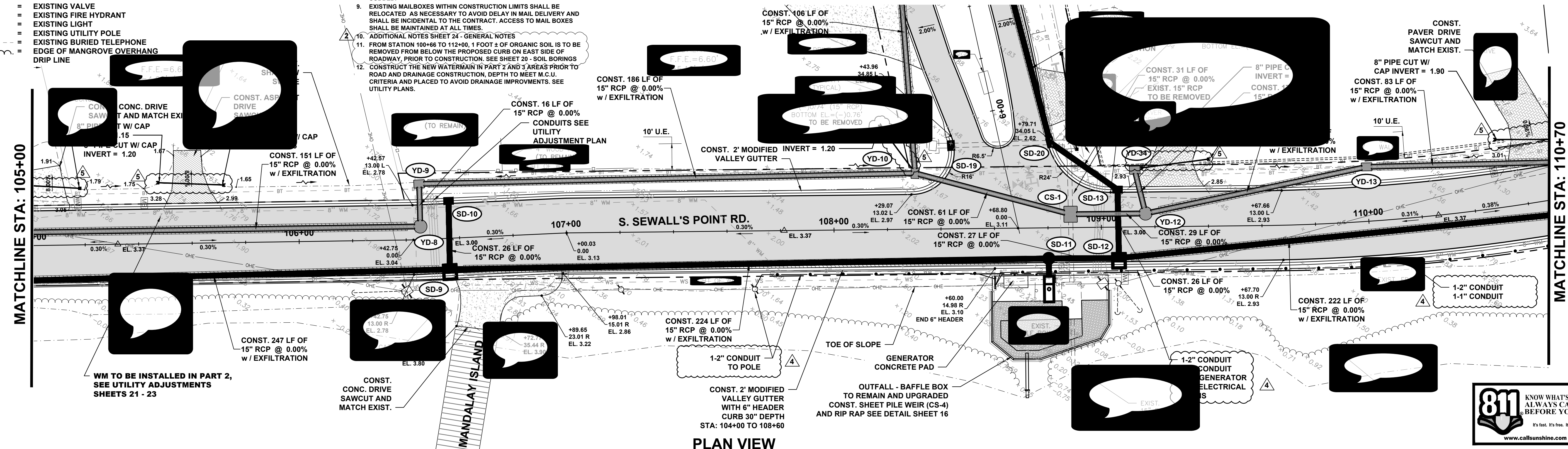
- = CONSTRUCT PAVEMENT AND OVER BUILD
- = ROADWAY DRAINAGE SYSTEM
- = YARD DRAINAGE SYSTEM
- = PIPE WITH EXFILTRATION
- = GRADE LINE AT TOE OF SLOPES AND SHALLOW SWALES
- = DRAINAGE FLOW DIRECTION ARROW
- = EXISTING MAILBOX
- = EXISTING WATER METER
- = EXISTING VALVE
- = EXISTING FIRE HYDRANT
- = EXISTING LIGHT
- = EXISTING UTILITY POLE
- = EXISTING BURIED TELEPHONE
- = EDGE OF MANGROVE OVERHANG DRIP LINE

NOTES:

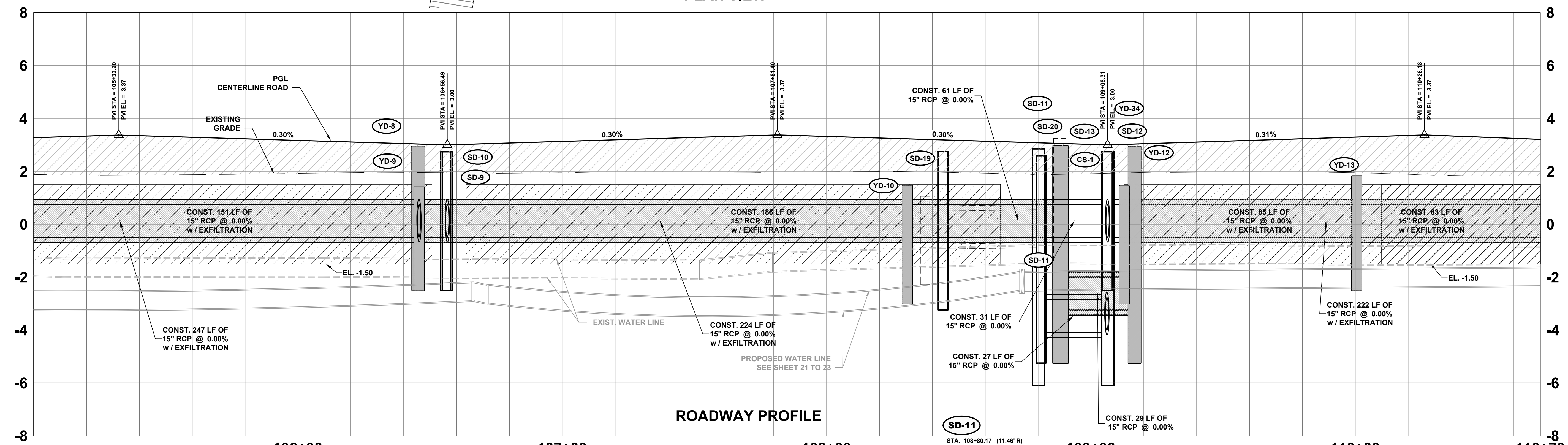
1. ALL CURB TRANSITIONS SHOULD BE 6" TO DROP CURB. FOR ALL DRIVEWAYS AND VALLEY INLETS.
2. DRIVEWAYS TO MATCH ORIGINAL MATERIAL. ALL DRIVEWAYS NOT TYPICALLY EXCEED 5.00% GRADE. GRADE WILL VARY DEPENDING ON CONDITIONS.
3. ALL INLETS TO HAVE 18" SUMPS.
4. ANY EXISTING WATER LINES DISTURBED MADE OF ASBESTOS CONCRETE PIPE, SHOULD BE ABANDONED AND GROUTED. ANY DISPOSAL OR REMOVAL SHOULD BE DONE USING EPA REGULATIONS FOR DISPOSAL.
5. MAINTENANCE OF TRAFFIC TO BE PERFORMED PER FOOT INDEX 102-603, TWO-LANE, TWO-WAY.
6. WORK WITHIN THE TRAVEL WAY. SEE SEQUENCE OF CONSTRUCTION SHEET 2.
7. ALL DISTURBED AREAS TO BE SODDED.
8. BACK OF CURB SLOPES MAY REQUIRE SHALLOW SWALES FOR PROPER DRAINAGE TO YARD DRAIN SYSTEM - FIELD ADJUSTED / SODDED.
9. EXISTING MAILBOXES WITHIN CONSTRUCTION LIMITS SHALL BE RELOCATED AS NECESSARY TO AVOID DELAY IN MAIL DELIVERY AND SHALL BE INCIDENTAL TO THE CONTRACT. ACCESS TO MAIL BOXES SHALL BE MAINTAINED AT ALL TIMES.
10. ADDITIONAL NOTES SHEET 24 - GENERAL NOTES
11. FROM STATION 106+66 TO 112+00, 1 FOOT ± OF ORGANIC SOIL IS TO BE REMOVED FROM BELOW THE PROPOSED CURB ON EAST SIDE OF ROADWAY PRIOR TO CONSTRUCTION. SEE SHEET 30 - SOIL BORINGS
12. CONSTRUCT THE NEW WATERMAIN IN PART 2 AND 3 AREAS PRIOR TO ROAD AND DRAINAGE CONSTRUCTION. DEPTH TO MEET M.C.U. CRITERIA AND PLACED TO AVOID DRAINAGE IMPROVEMENTS. SEE UTILITY PLANS.

MATCHLINE STA: 105+00

MATCHLINE STA: 110+70

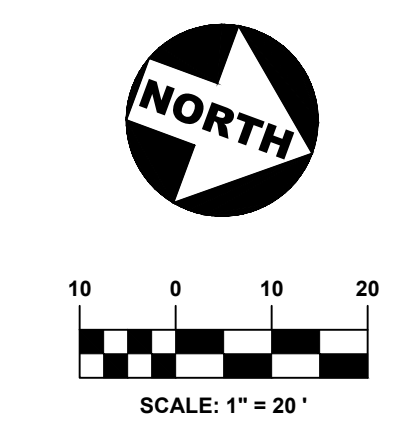
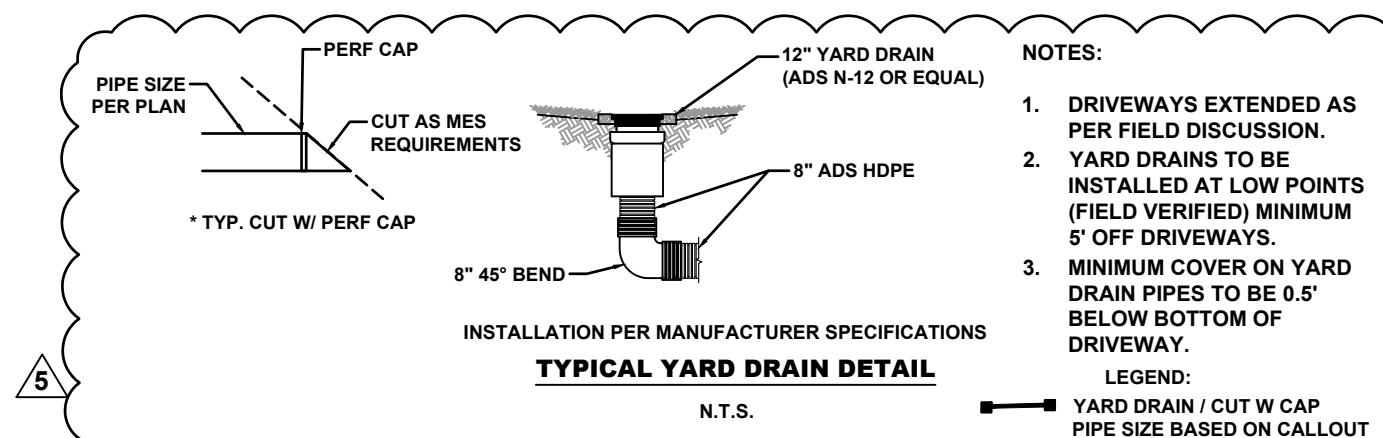


PLAN VIEW



ROADWAY PROFILE

Structure	Station	Description	Notes
YD-8	106+45.51 (4.92' L)	CONST. STORM MH	RIM EL. = 2.93 INV. EL. = -0.50 (S)
YD-9	106+45.81 (20.84' L)	CONST. TYPE C INLET	GRATE EL. = 1.40 INV. EL. = -0.50 (N) INV. EL. = -0.50 (E)
SD-9	106+55.84 (11.63' R)	CONST. VALLEY GUTTER W/ TYPE "J" ALTERNATE B BOTTOM	EOP EL. = 2.74 INV. EL. = -0.50 (W) INV. EL. = -0.50 (S) INV. EL. = -0.50 (N)
SD-10	106+56.48 (13.98' L)	CONST. DBL. VALLEY INLET	EOP EL. = 2.74 INV. EL. = -0.50 (E)
YD-10	108+30.53 (20.98' L)	CONST. TYPE C INLET	GRATE EL. = 2.30 INV. EL. = -0.50 (N) INV. EL. = -0.50 (S) INV. EL. = -0.50 (W) INV. EL. = 1.00 (SW) ADJUST
SD-11	108+80.17 (11.46' R)	CONST. STORM MH	RIM EL. = 2.85 INV. EL. = -4.10 (N) INV. EL. = -0.50 (E)
CS-1	108+88.49 (5.00' L)	CONST. CONTROL STRUCTURE MODIFIED E/W/MANHOLE TOP HALF PIPE WEIR EAST PIPE TOP WEIR 1.50	RIM EL. = 2.95 INV. EL. = -0.78 (W) PLUG INV. EL. = -0.50 (S) INV. EL. = -4.10 (S) INV. EL. = -3.25 (W) INV. EL. = -0.78 (E) SEE SHEET 19
SD-12	109+06.42 (11.60' R)	CONST. VALLEY GUTTER W/ TYPE "J" ALTERNATE B BOTTOM	EOP EL. = 2.74 INV. EL. = -4.10 (S) INV. EL. = -0.50 (W) INV. EL. = -0.50 (N)
SD-19	108+80.17 (11.46' R)	CONST. STORM MH	EOP EL. = 2.85 INV. EL. = -4.10 (N) INV. EL. = -0.50 (E)
SD-11	108+80.17 (11.46' R)	CONST. STORM MH	EOP EL. = 2.85 INV. EL. = -4.10 (N) INV. EL. = -0.50 (E)
SD-12	109+06.42 (11.60' R)	CONST. DBL. VALLEY INLET	EOP EL. = 2.74 INV. EL. = -4.10 (S) INV. EL. = -0.50 (W) INV. EL. = -0.50 (N)
SD-13	109+06.14 (31.93' L)	CONST. DBL. VALLEY INLET	EOP EL. = 2.74 INV. EL. = -0.50 (E) INV. EL. = -0.50 (SW)
SD-20	109+06.14 (31.93' L)	CONST. DBL. VALLEY INLET	EOP EL. = 2.74 INV. EL. = -0.50 (E) INV. EL. = -0.50 (SW)
YD-34	109+12.64 (21.24' L)	CONST. TYPE C INLET	GRATE EL. = 1.44 INV. EL. = -0.50 (NE)
YD-12	109+16.50 (5.00' L)	CONST. STORM MH	RIM EL. = 2.93 INV. EL. = -3.25 (S) INV. EL. = -0.50 (NW) INV. EL. = -0.50 (SW)
YD-13	110+00.57 (20.38' L)	CONST. TYPE C INLET	GRATE EL. = 1.82 INV. EL. = -0.50 (SE) INV. EL. = -0.50 (N)



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No. EG-0076297

DATE: 7/28/19

DRAWN BY: MDB
DESIGNED BY: HLT
CHECKED BY: JMC
PROJECT NO.: 023-127
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

NO.	DATE	BY	REVISIONS
1	7-29-21	MDB	DRIVEWAY YARD DRAINS
2	4-16-21	MDB	REVISED CONDUIT
3	4-22-21	MDB	ADFC
4	2-18-20	MDB	ADDENDUM 3
5	12-31-19	MDB	BID SET

SCALE VERIFICATION

1" = 20'

SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED ACCORDINGLY.

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT - FLORIDA

PLAN & PROFILE

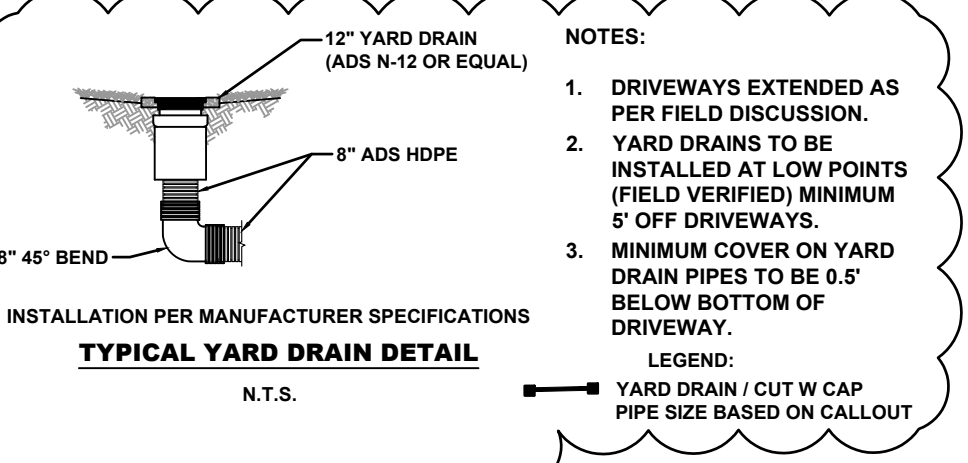
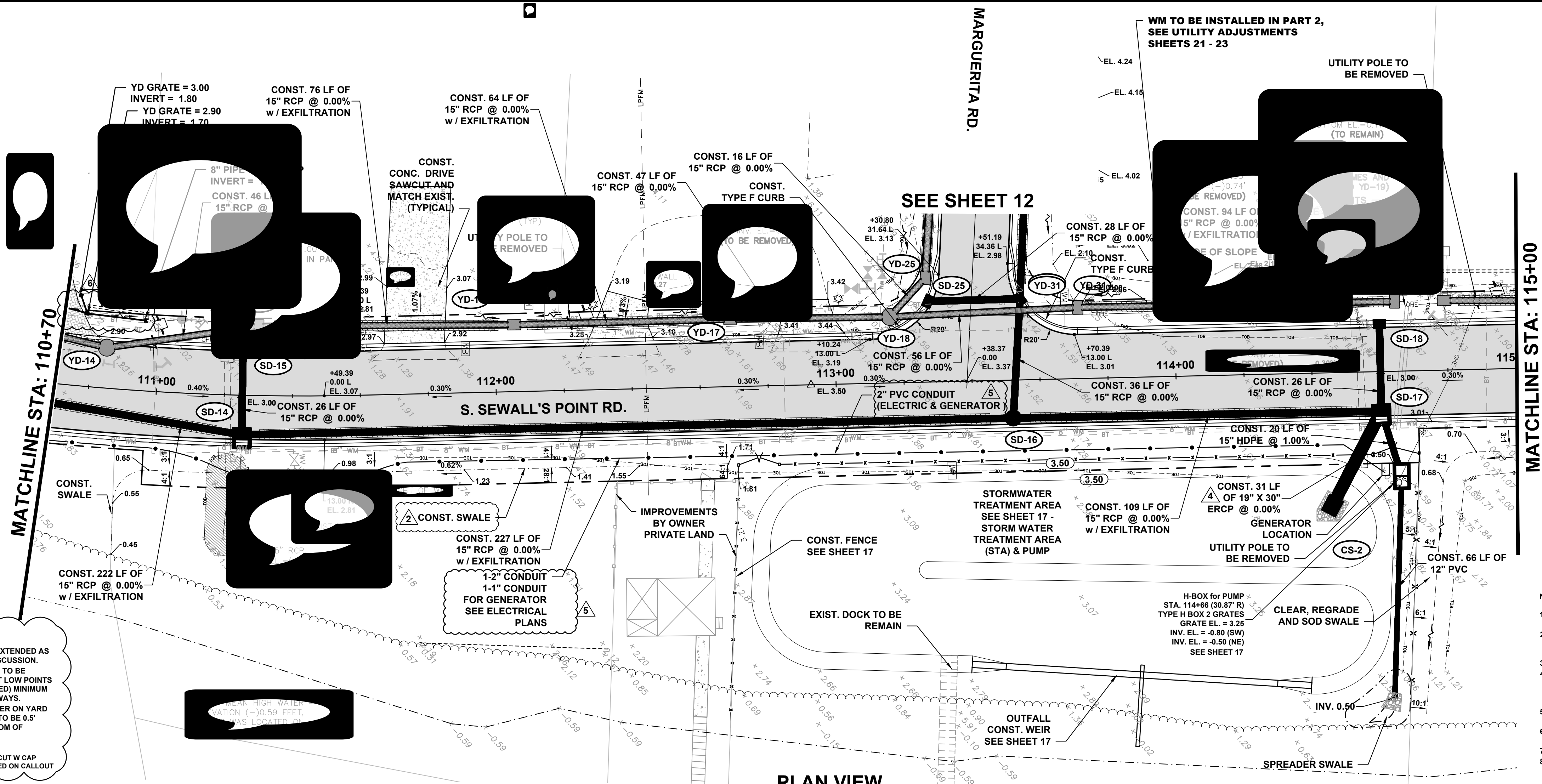
Joseph W. Capra
301 N.W. Flagger Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

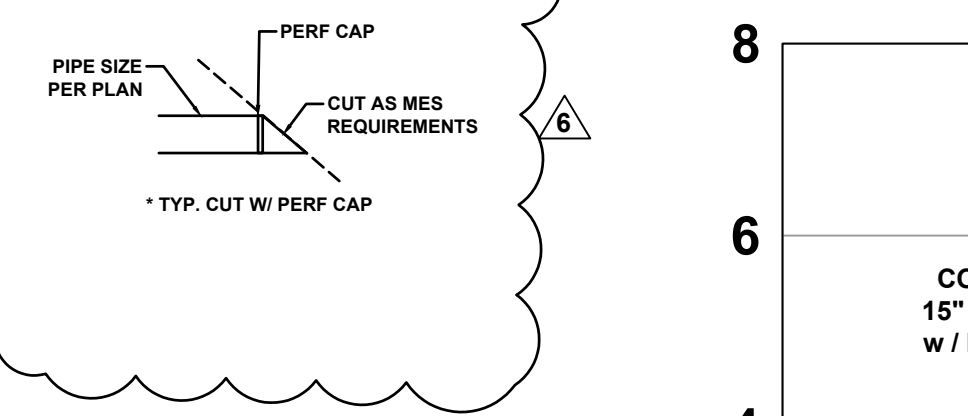
JOB No.: **023-127**
SHEET **8** OF **26**

A 1-3

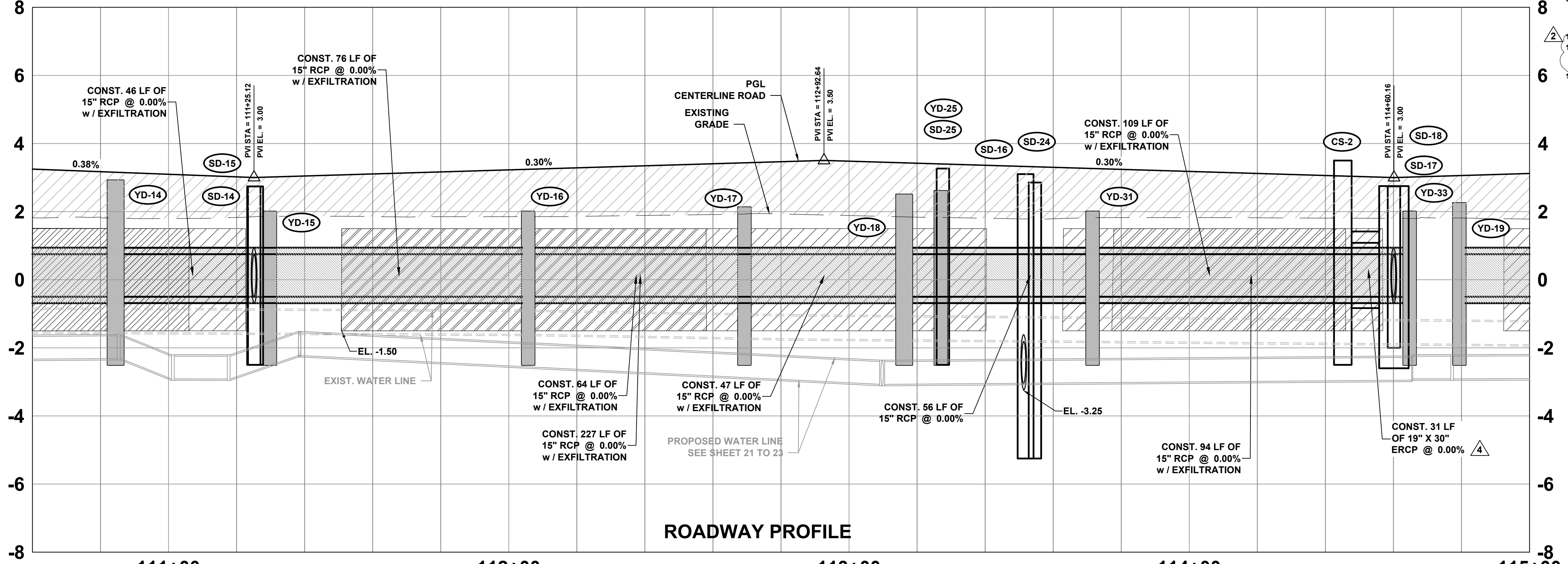
- LEGEND**
- = CONSTRUCT PAVEMENT AND OVER BUILD
 - = ROADWAY DRAINAGE SYSTEM
 - = YARD DRAINAGE SYSTEM
 - = PIPE WITH EXFILTRATION
 - = GRADE LINE AT TOE OF SLOPES AND SHALLOW SWALES
 - = DRAINAGE FLOW DIRECTION ARROW
 - = EXISTING MAILBOX
 - = EXISTING WATER METER
 - = EXISTING VALVE
 - = EXISTING FIRE HYDRANT
 - = EXISTING LIGHT
 - = EXISTING UTILITY POLE
 - = EXISTING BURIED TELEPHONE
 - = EDGE OF MANGROVE OVERHANG
 - = DRIP LINE



- NOTES:**
- DRIVEWAYS EXTENDED AS PER FIELD DISCUSSION.
 - YARD DRAINS TO BE INSTALLED AT LOW POINTS (FIELD VERIFIED) MINIMUM 5' OFF DRIVEWAYS.
 - MINIMUM COVER ON YARD DRAIN PIPES TO BE 0.5' BELOW BOTTOM OF DRIVEWAY.
- LEGEND:**
- YARD DRAIN CUT W/ CAP
 - PIPE SIZE BASED ON CALLOUT



PLAN VIEW



ROADWAY PROFILE

Structure	Station	Description	Notes
YD-14	110+84.46 (11.90' L)	CONST. STORM MH	RIM EL. = 2.92 INV. EL. = -0.50 (S) INV. EL. = -0.50 (NW)
YD-15	111+29.80 (20.37' L)	CONST. TYPE C INLET	GRATE EL. = 2.00 INV. EL. = -0.50 (SE) INV. EL. = -0.50 (NW)
SD-14	111+25.45 (11.83' R)	CONST. VALLEY GUTTER W/ TYPE "J" ALTERNATE B BOTTOM	EOP EL. = 2.74 INV. EL. = -0.50 (S) INV. EL. = -0.50 (SW) INV. EL. = -0.50 (NW)
SD-15	111+25.19 (14.01' L)	CONST. DBL. VALLEY INLET	EOP EL. = 2.74 INV. EL. = -0.50 (NE)
YD-16	112+05.70 (19.67' L)	CONST. TYPE C INLET	GRATE EL. = 2.00 INV. EL. = -0.50 (NW) INV. EL. = -0.50 (SE)
YD-17	112+09.25 (19.87' L)	CONST. TYPE C INLET	GRATE EL. = 2.12 INV. EL. = -0.50 (NW) INV. EL. = -0.50 (SE)
YD-18	113+16.22 (19.42' L)	CONST. STORM MH	RIM EL. = 2.50 INV. EL. = -0.50 (NW) INV. EL. = -0.50 (SE) INV. EL. = -0.50 (W)
SD-16	113+51.89 (11.17' R)	CONST. STORM MH	RIM EL. = 3.10 INV. EL. = -0.50 (SE) INV. EL. = -3.25 (SW) INV. EL. = -0.50 (NW)
SD-24	113+54.64 (23.85' L)	CONST. P-9 INLET	EOP EL. = 2.96 INV. EL. = -0.50 (SW) INV. EL. = -3.25 (NE) INV. EL. = -0.50 (SE)
YD-31	113+71.57 (20.93' L)	CONST. TYPE C INLET	GRATE EL. = 2.00 INV. EL. = -0.50 (SE) INV. EL. = -0.50 (NW)
SD-25	113+27.59 (23.74' L)	CONST. P-9 INLET	EOP EL. = 3.27 INV. EL. = -0.50 (NW)
YD-25	113+26.97 (30.72' L)	CONST. TYPE C INLET	GRATE EL. = 2.60 INV. EL. = -0.50 (E) INV. EL. = 0.50 (SW)
YD-33	114+64.77 (20.56' L)	CONST. TYPE C INLET	GRATE EL. = 2.00 INV. EL. = -0.50 (SE)
YD-19	114+79.36 (20.48' L)	CONST. TYPE C INLET	GRATE EL. = 2.25 INV. EL. = -0.50 (NW) INV. EL. = 0.26 (SW) CONNECT TO EXIST.

- NOTES:**
- ALL CURB TRANSITIONS SHOULD BE 6" TO DROP CURB. FOR ALL DRIVEWAYS AND VALLEY INLETS.
 - DRIVEWAYS TO MATCH ORIGINAL MATERIAL. ALL DRIVEWAYS NOT TYPICALLY EXCEED 8.00% GRADE. GRADE WILL VARY DEPENDING ON CONDITIONS.
 - ALL INLETS TO HAVE 18" SUMPS.
 - ANY EXISTING WATER LINES DISTURBED MADE OF ASBESTOS CONCRETE PIPE SHOULD BE ABANDONED AND GROUTED. ANY DISPOSAL OR REMOVAL SHOULD BE DONE USING EPA REGULATIONS FOR DISPOSAL.
 - MAINTENANCE OF TRAFFIC TO BE PERFORMED PER FDOT INDEX 102-603, TWO-LANE, TWO-WAY.
 - WORK WITHIN THE TRAVEL WAY. SEE SEQUENCE OF CONSTRUCTION SHEET 2.
 - ALL DISTURBED AREAS TO BE SODED.
 - BACK OF CURB SLOPES MAY REQUIRE SHALLOW SWALES FOR PROPER DRAINAGE TO YARD DRAIN SYSTEM - FIELD ADJUSTED / SODED.
 - EXISTING MAILBOXES WITHIN CONSTRUCTION LIMITS SHALL BE RELOCATED AS NECESSARY TO AVOID DELAY IN MAIL DELIVERY AND SHALL BE INCIDENTAL TO THE CONTRACT. ACCESS TO MAIL BOXES SHALL BE MAINTAINED AT ALL TIMES.
 - ADDITIONAL NOTES SHEET 24 - GENERAL NOTES
 - FROM STATION 100+66 TO 112+00, 1 FOOT ± OF ORGANIC SOIL IS TO BE REMOVED FROM BELOW THE PROPOSED CURB ON EAST SIDE OF ROADWAY, PRIOR TO CONSTRUCTION. SEE SHEET 20 - SOIL BORINGS
 - CONSTRUCT THE NEW WATERMAIN IN PART 2 AND 3 AREAS PRIOR TO ROAD AND DRAINAGE CONSTRUCTION, DEPTH TO MEET M.C.U. CRITERIA AND PLACED TO AVOID DRAINAGE IMPROVEMENTS. SEE UTILITY PLANS.



SCALE VERIFICATION

0	1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED ACCORDINGLY	

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT - FLORIDA

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341

CAPTEC
Engineering, Inc.
Civil Engineering Professionals

No. EB-00767

DATE: 7/28/19

DRAWN BY: MDB

DESIGNED BY: HLT

CHECKED BY: JMC

PROJECT NO.: 023.127

HORIZ. SCALE: 1" = 20'

VERT. SCALE: 1" = 2'

CADD FILE:

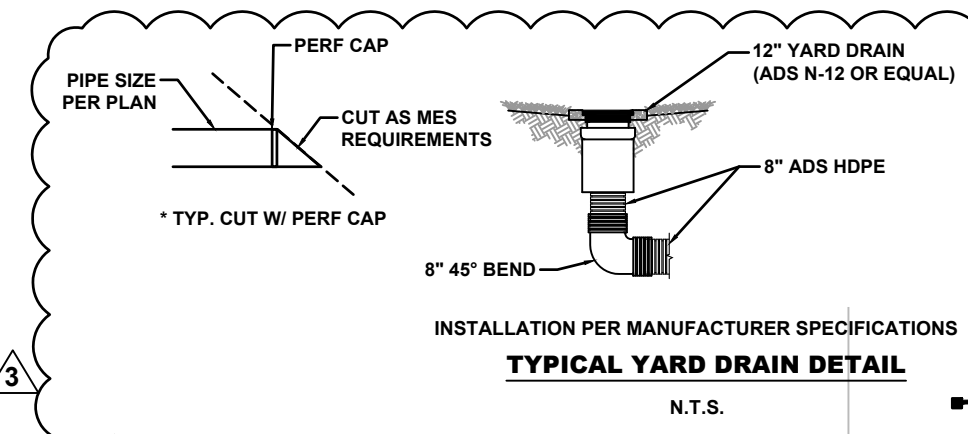
NO.	DATE	BY	REVISIONS
1	7-29-21	MDB	DRIVEWAY YARD DRAINS
2	4-16-21	MDB	REVISED CONDUIT
3	9-21-20	MDB	REVISED PIPE CS-2, SD-17, TOP ON YD-18
4	4-22-21	MDB	AFC
5	2-18-20	MDB	ADDENDUM 3
6	12-31-19	MDB	BID SET

LEGEND

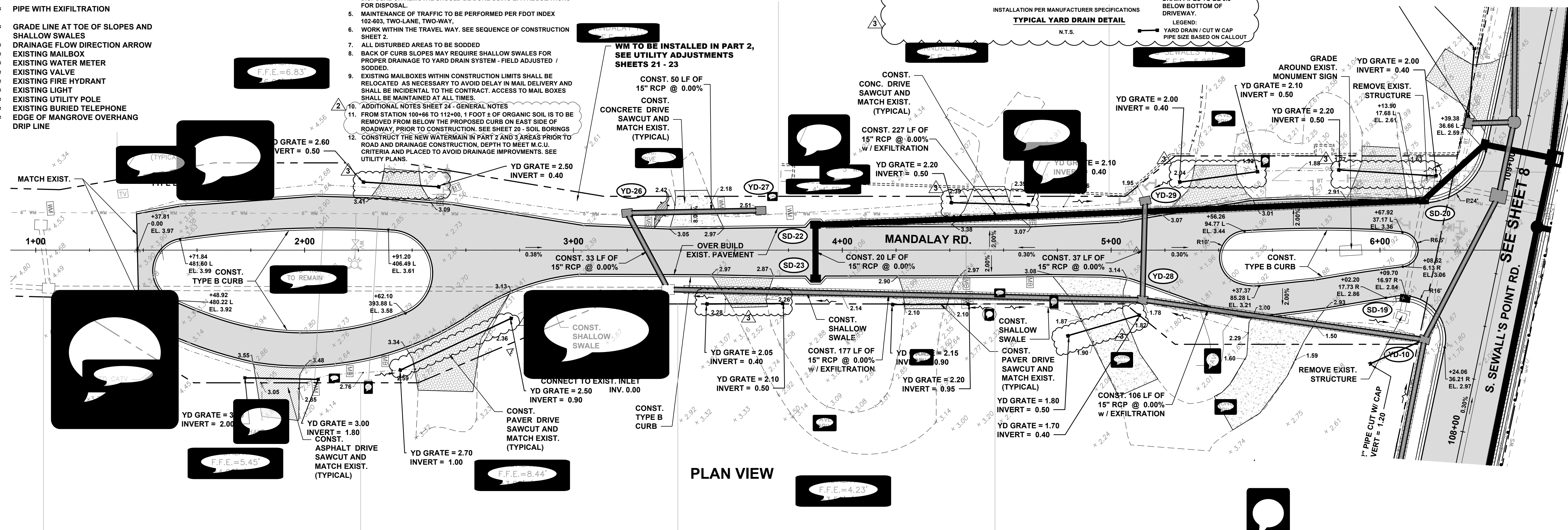
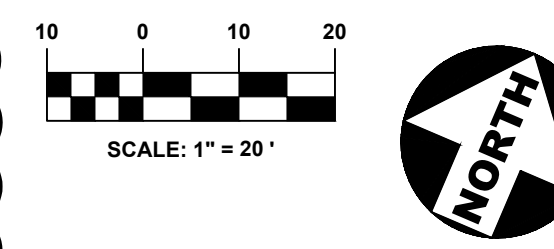
- = CONSTRUCT PAVEMENT AND OVER BUILD
- = ROADWAY DRAINAGE SYSTEM
- = YARD DRAINAGE SYSTEM
- = PIPE WITH EXFILTRATION
- = GRADE LINE AT TOE OF SLOPES AND SHALLOW SWALES
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- = EXISTING WATER METER
- = EXISTING VALVE
- = EXISTING FIRE HYDRANT
- = EXISTING LIGHT POLE
- = EXISTING BURIED TELEPHONE
- = EDGE OF MANGROVE OVERHANG
- = DRIP LINE

NOTES:

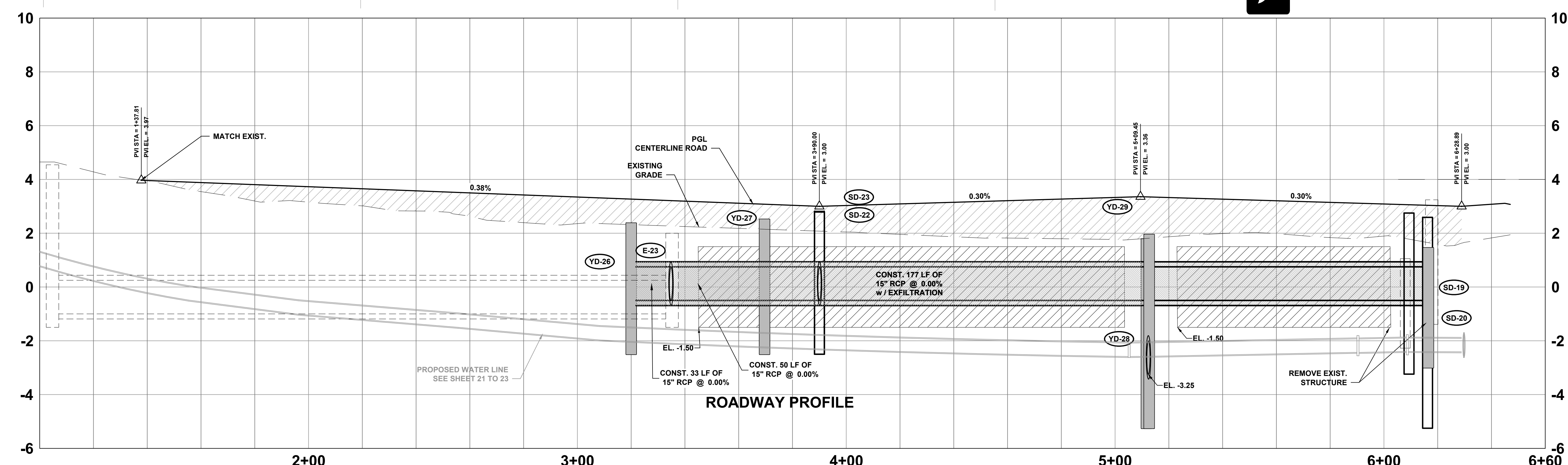
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7. ALL DISTURBED AREAS TO BE SODDED
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9. EXISTING MAILBOXES WITHIN CONSTRUCTION LIMITS SHALL BE RELOCATED AS NECESSARY TO AVOID DELAY IN MAIL DELIVERY AND SHALL BE INCIDENTAL TO THE CONTRACT. ACCESS TO MAIL BOXES SHALL BE MAINTAINED AT ALL TIMES.
10. ADDITIONAL NOTES SHEET 24 - GENERAL NOTES
11. FROM STATION 100+66 TO 112+00, 1 FOOT ± OF ORGANIC SOIL IS TO BE REMOVED FROM BELOW THE PROPOSED CURB ON EAST SIDE OF ROADWAY, PRIOR TO CONSTRUCTION. SEE SHEET 20 - SOIL BORINGS
12. CONSTRUCT THE NEW WATERMAIN IN PART 2 AND 3 AREAS PRIOR TO ROAD AND DRAINAGE CONSTRUCTION. DEPTH TO MEET M.C.U. CRITERIA AND PLACED TO AVOID DRAINAGE IMPROVEMENTS. SEE UTILITY PLANS.



- NOTES:**
1. DRIVEWAYS EXTENDED AS PER FIELD DISCUSSION.
 2. YARD DRAINS TO BE INSTALLED AT LOW POINTS (FIELD VERIFIED) MINIMUM 5' OFF DRIVEWAYS.
 3. MINIMUM COVER ON YARD DRAIN PIPES TO BE 0.6' BELOW BOTTOM OF DRIVEWAY.
- LEGEND:**
YARD DRAIN / CUT W/ CAP
PIPE SIZE BASED ON CALLOUT



PLAN VIEW



ROADWAY PROFILE

YD-26 STA. 3+20.02 (13.79' L) CONST. TYPE C INLET GRATE EL. = 2.37 INV. EL. = -0.50 (SE) INV. EL. = -0.50 (NE)	SD-22 STA. 3+90.02 (9.44' L) CONST. TYPE C INLET GRATE EL. = 2.81 INV. EL. = -0.50 (SE) INV. EL. = -0.50 (NE)	SD-23 STA. 3+90.06 (10.55' R) CONST. TYPE C INLET GRATE EL. = 2.79 INV. EL. = -0.50 (NW)	YD-27 STA. 3+69.61 (14.73' L) CONST. TYPE C INLET GRATE EL. = 2.51 INV. EL. = -0.50 (SW)	YD-28 STA. 5+11.65 (18.48' R) CONST. TYPE C INLET GRATE EL. = 1.78 INV. EL. = -3.25 (N) INV. EL. = -0.50 (E) INV. EL. = -0.50 (W)	YD-29 STA. 5+12.68 (18.31' L) CONST. TYPE C INLET GRATE EL. = 2.50 SIDE THROAT (6" X 24") ELEV. = 1.95 INV. EL. = -3.25 (S) ADJUST	YD-10 STA. 108+30.53 (20.98' L) CONST. TYPE C INLET GRATE EL. = 1.46 INV. EL. = -0.50 (N) INV. EL. = -0.50 (S) INV. EL. = -0.50 (W) ADJUST	SD-19 STA. 108+44.07 (31.18' L) CONST. DBL. VALLEY INLET CONNECT TO EXIST. PIPE EOP EL. = 2.75 INV. EL. = -0.74 (N)	SD-20 STA. 108+81.14 (31.93' L) CONST. DBL. VALLEY INLET CONNECT TO EXIST. PIPE EOP EL. = 2.59 INV. EL. = -0.50 (SW) INV. EL. = -0.70 (S) INV. EL. = -0.50 (NE)
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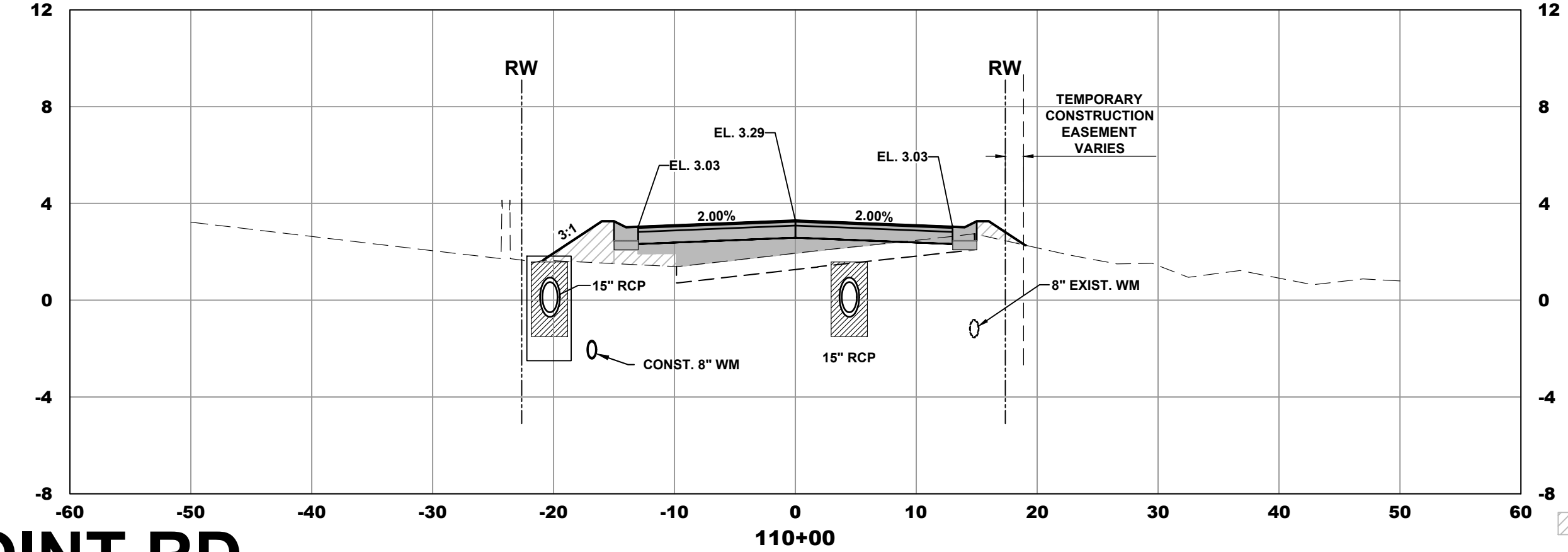
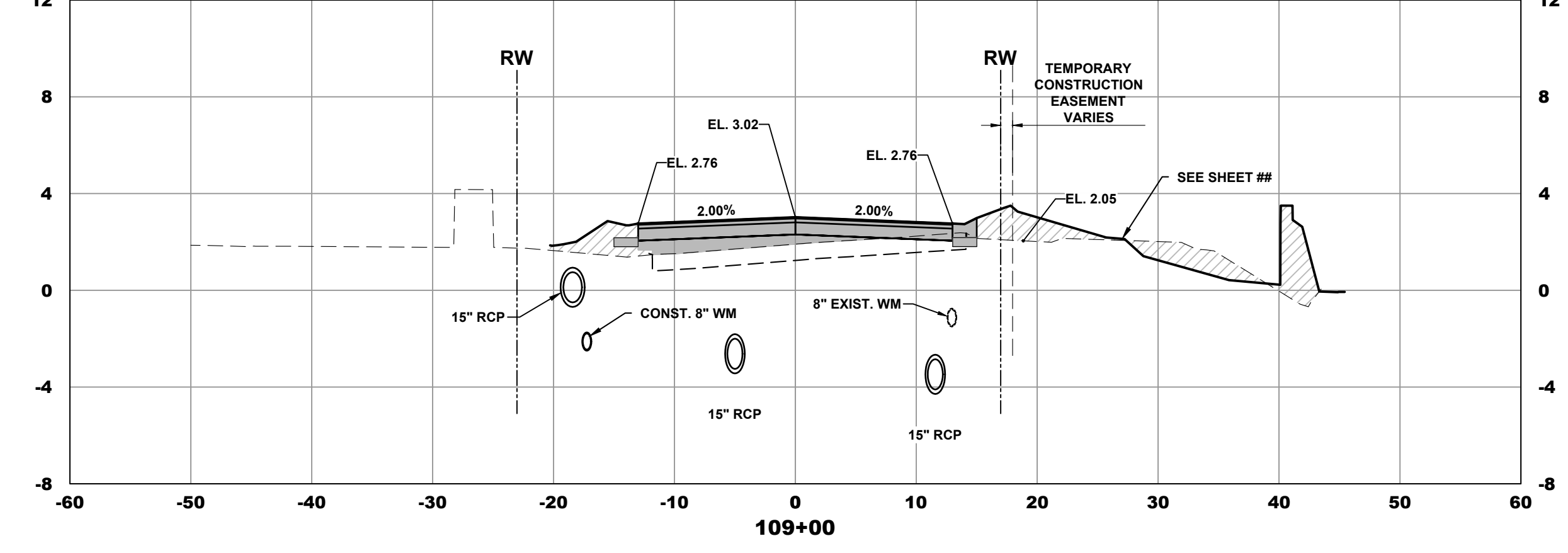
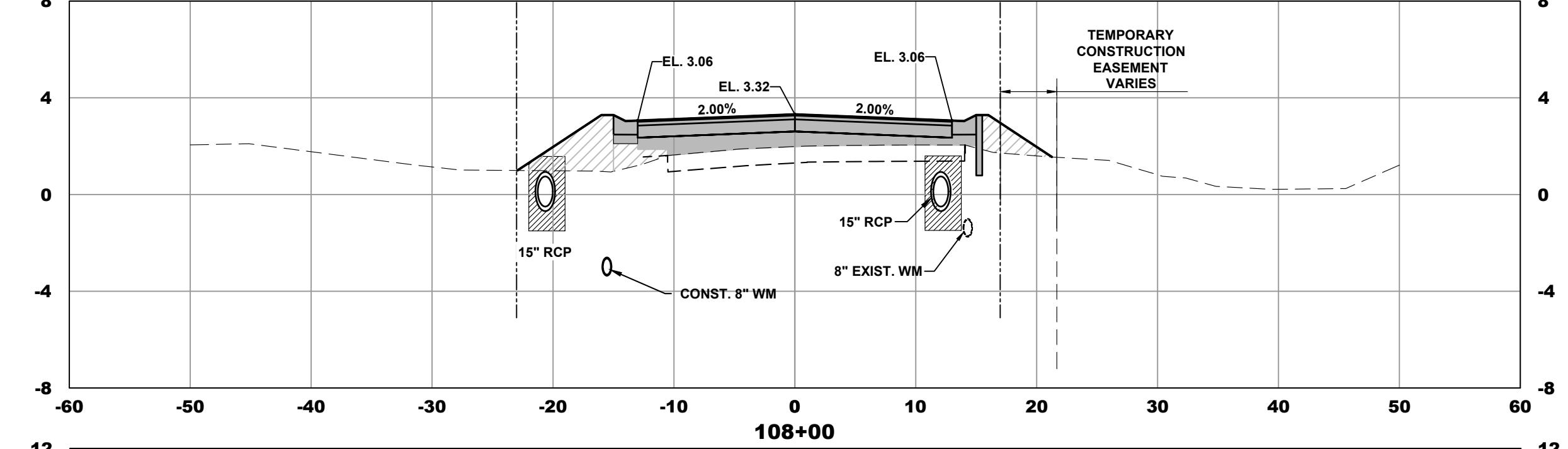
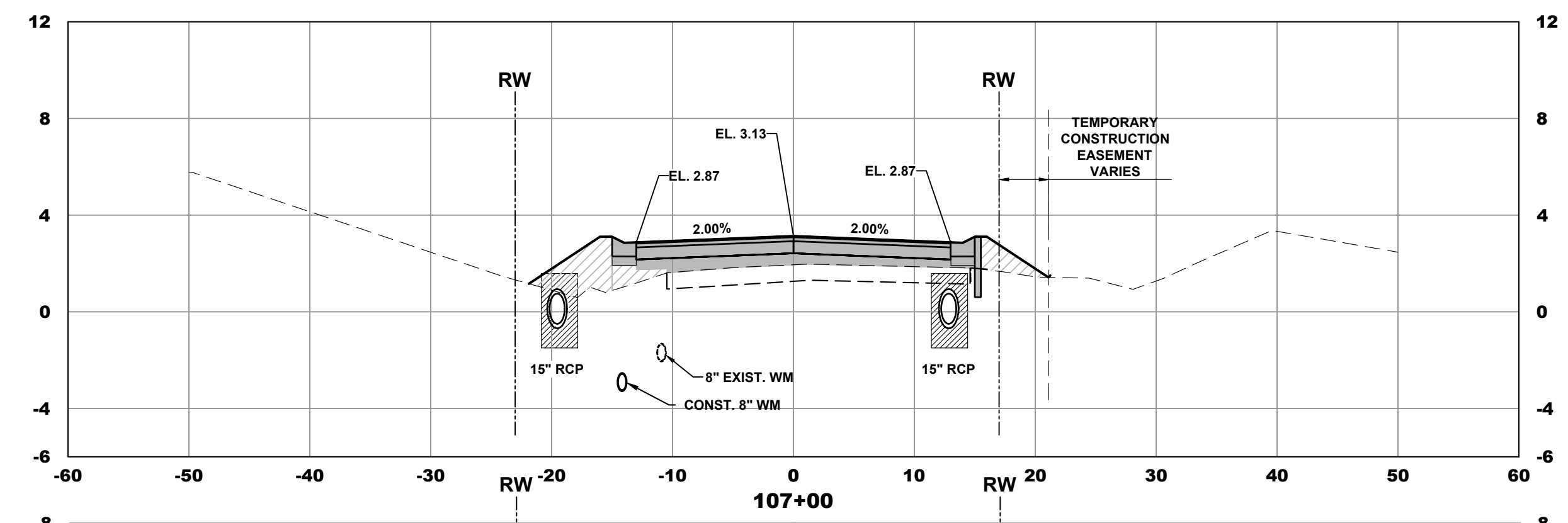
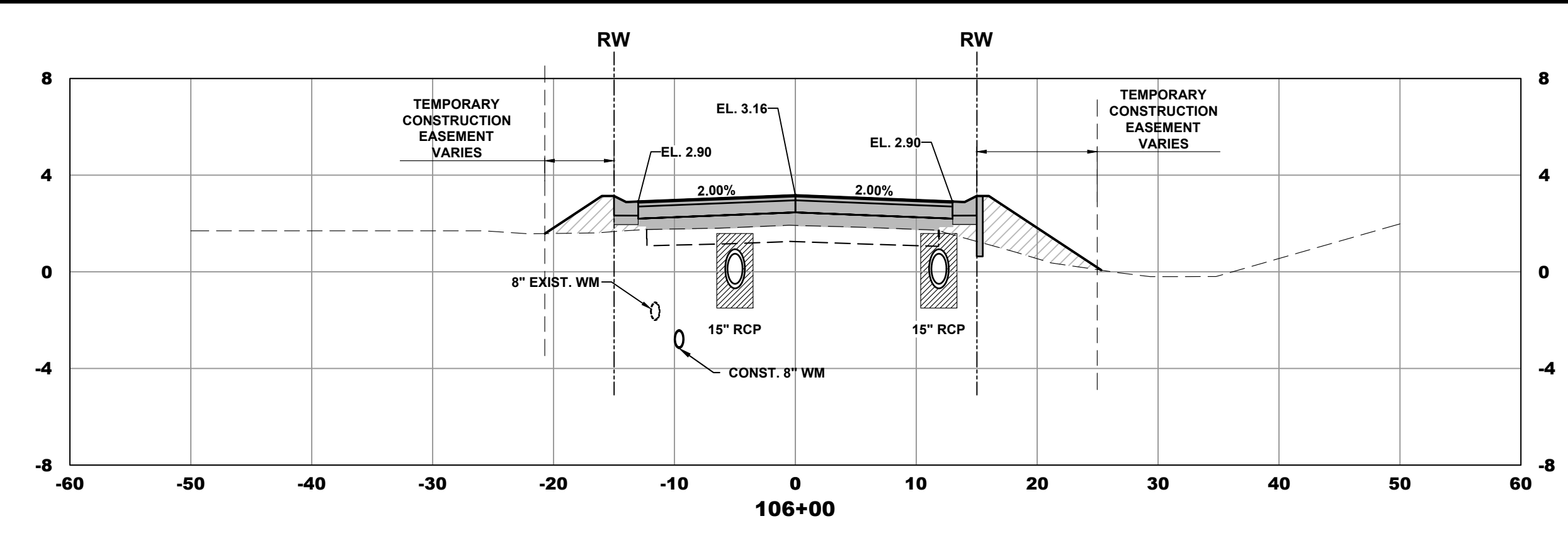
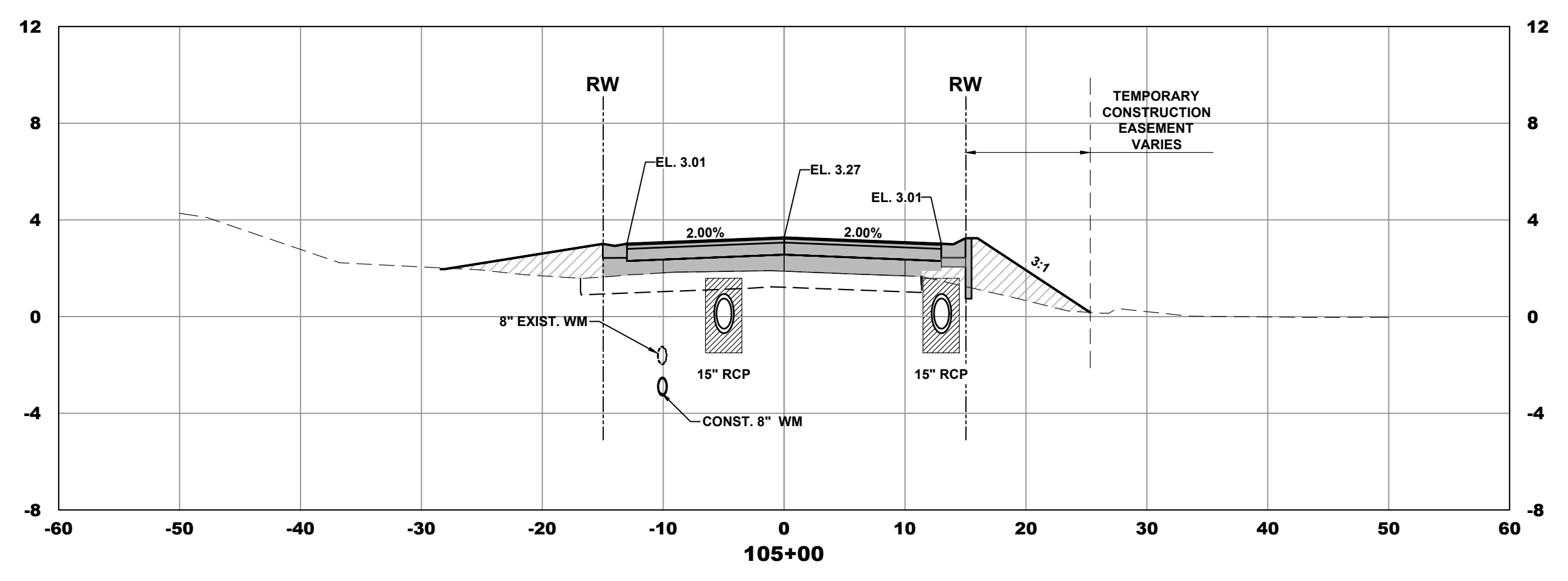
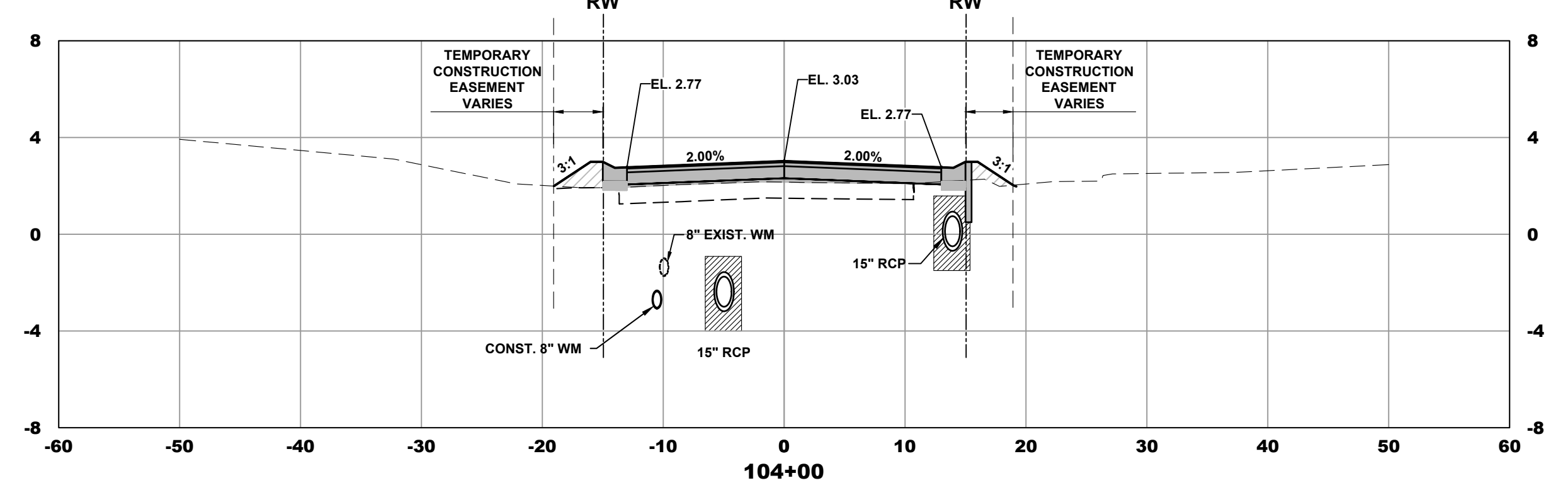
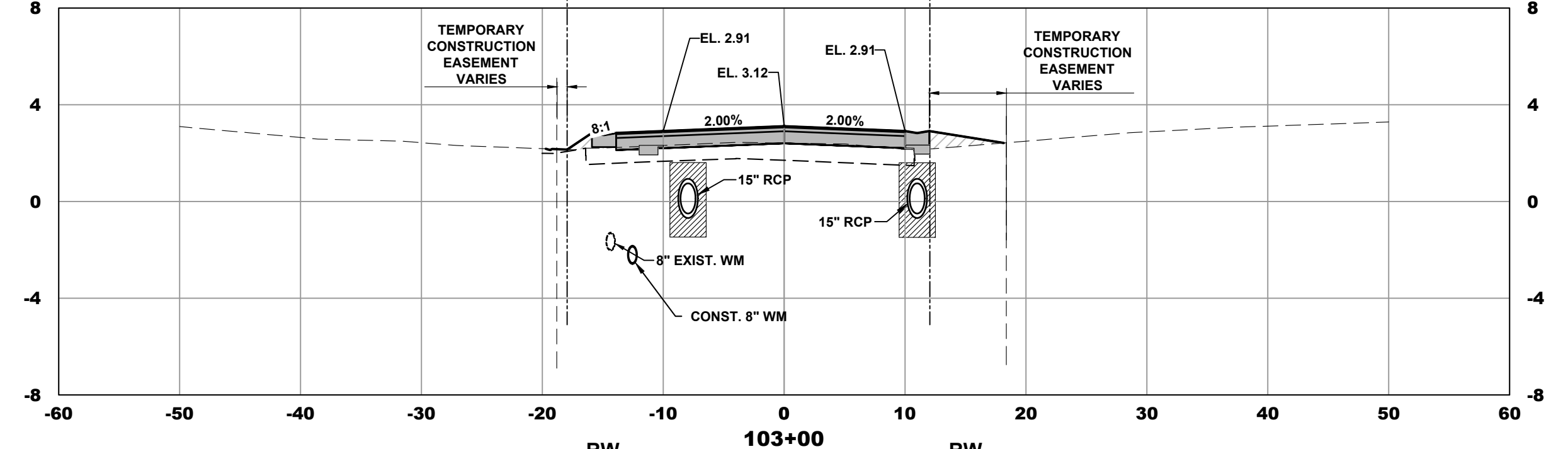
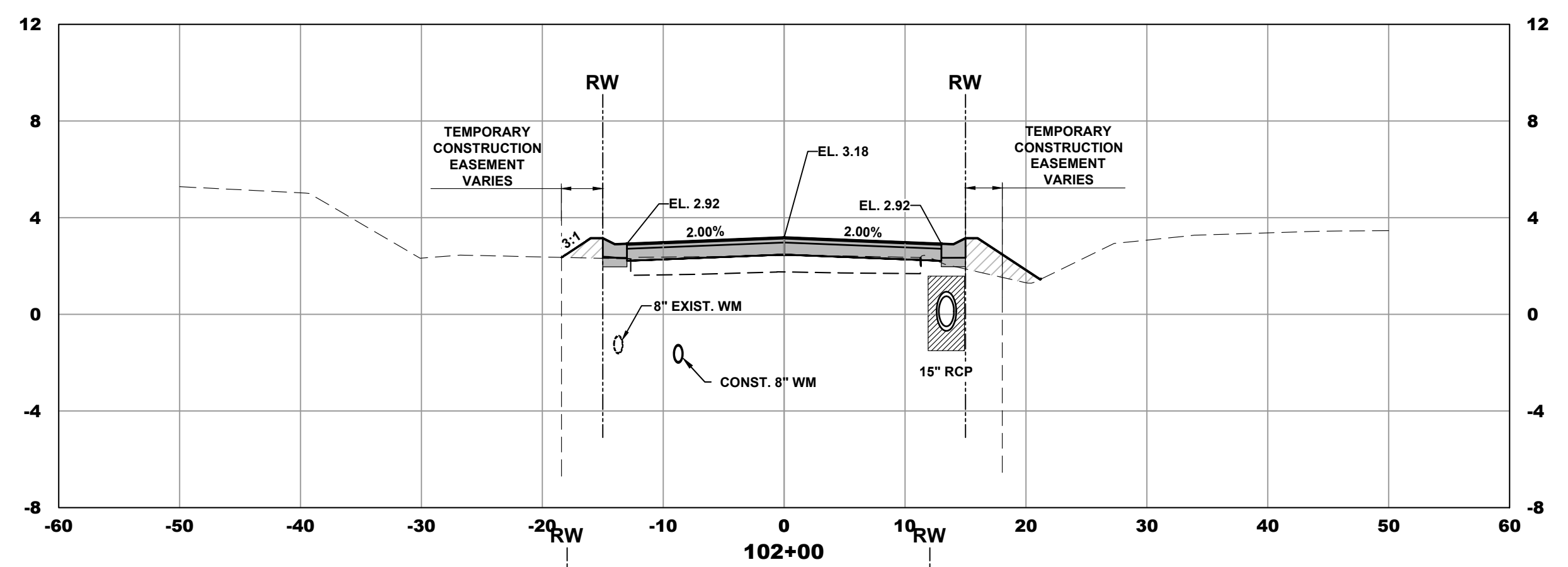
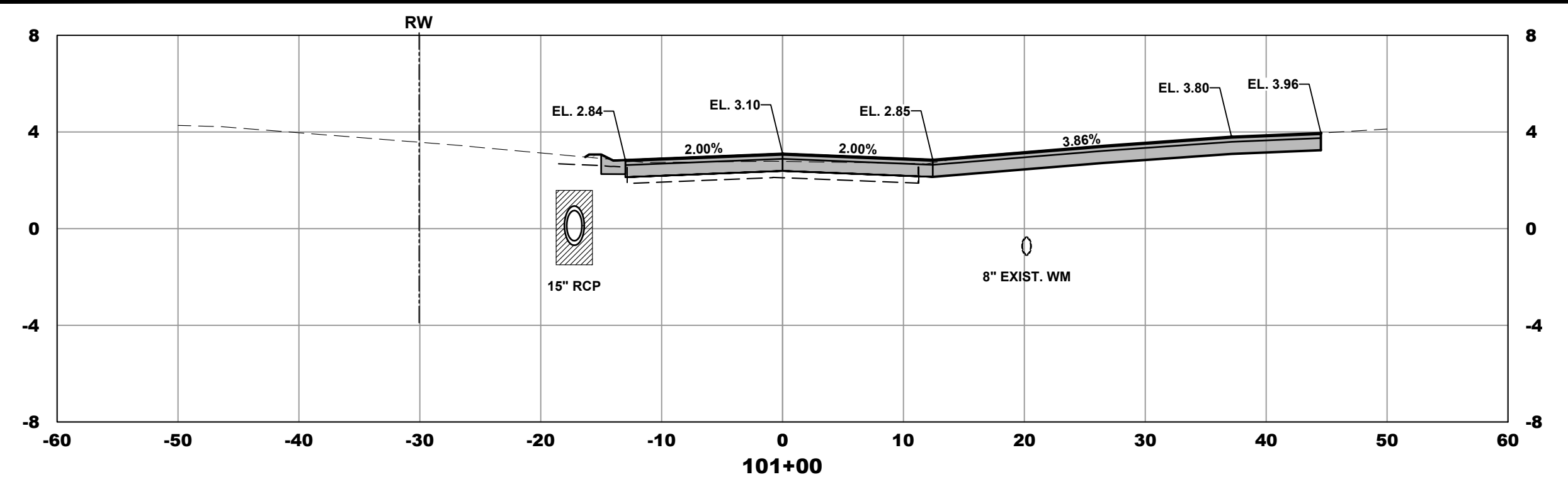
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DRAWN BY: MMB
DESIGNED BY: HLT
CHECKED BY: JMC
PROJECT NO.: 023-127
JOB NO.: 023-127
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'
CADD FILE:

NO.	DATE	BY	REVISIONS
1	7-29-21	MMB	DRIVEWAY YARD DRAINS
2	4-22-21	MMB	AFC
1	12-31-19	MMB	BID SET

SCALE VERIFICATION
1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED ACCORDINGLY

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT - FLORIDA
PLAN & PROFILE
MANDALAY

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638



S. SEWALL'S POINT RD.

LEGEND
 = FILL
 = BLACK BASE

301 N.W. Flagler Ave.
 Stuart, Florida 34994
 Phone: (772) 892-4344
 Fax: (772) 892-4341

Civil Engineering Professionals
 No. EB-000767

DATE: 7/28/19
 DRAWN BY: MDB
 DESIGNED BY: HLT
 CHECKED BY: JMC
 PROJECT NO.: 023-127
 HORZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'
 CADD FILE:

NO.	DATE	BY	REVISIONS
1	4-22-21	MDB / AFC	
2	12-31-19	MDB / BID SET	

SCALE VERIFICATION
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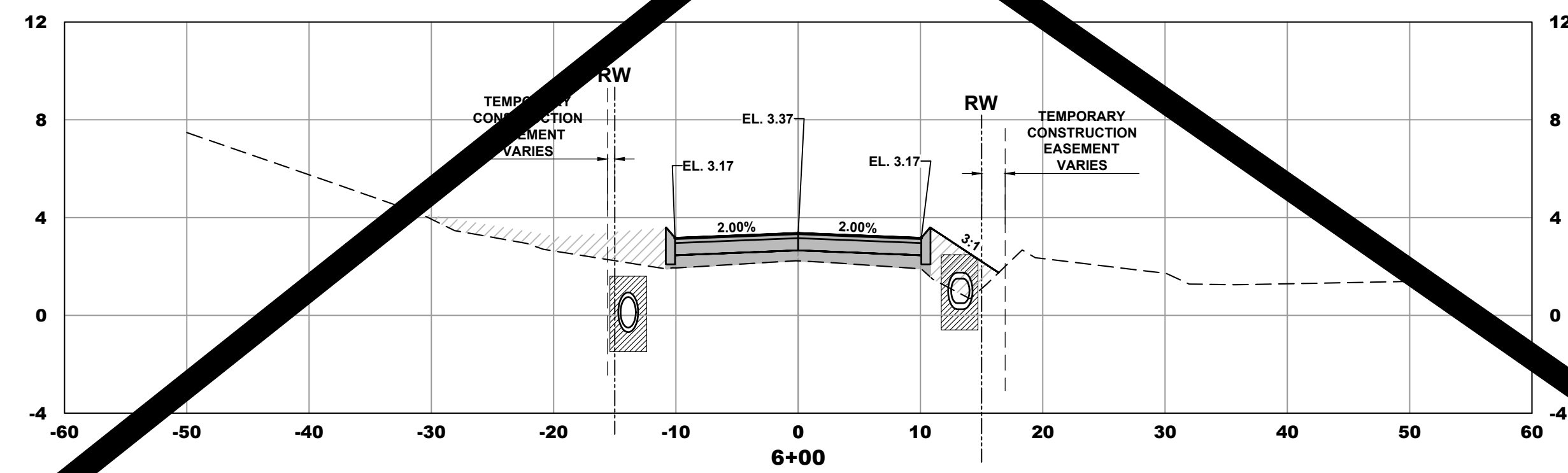
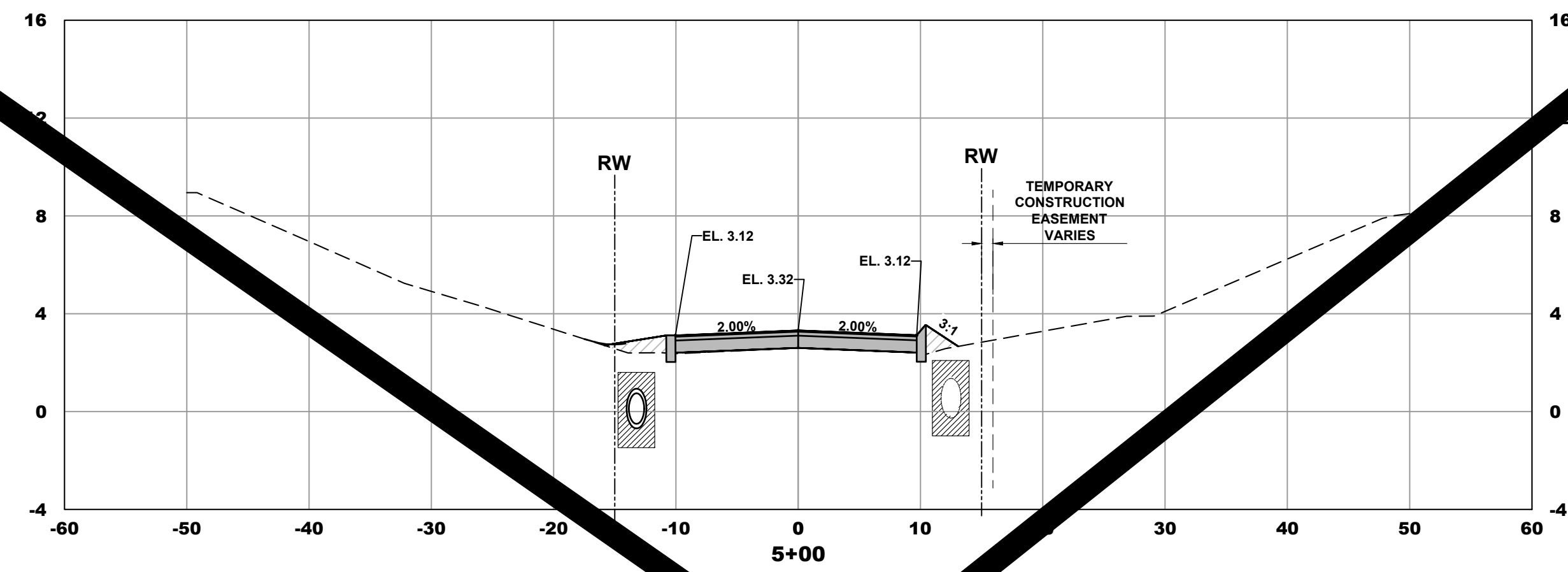
S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
 TOWN OF SEWALL'S POINT - FLORIDA
CROSS SECTIONS

Joseph W. Capra
 301 N.W. Flagler Ave.
 Stuart, Florida 34994
 P.E. No. 37638

Printed Date:
 JOB No.: 023-127
 SHEET 13 OF 26

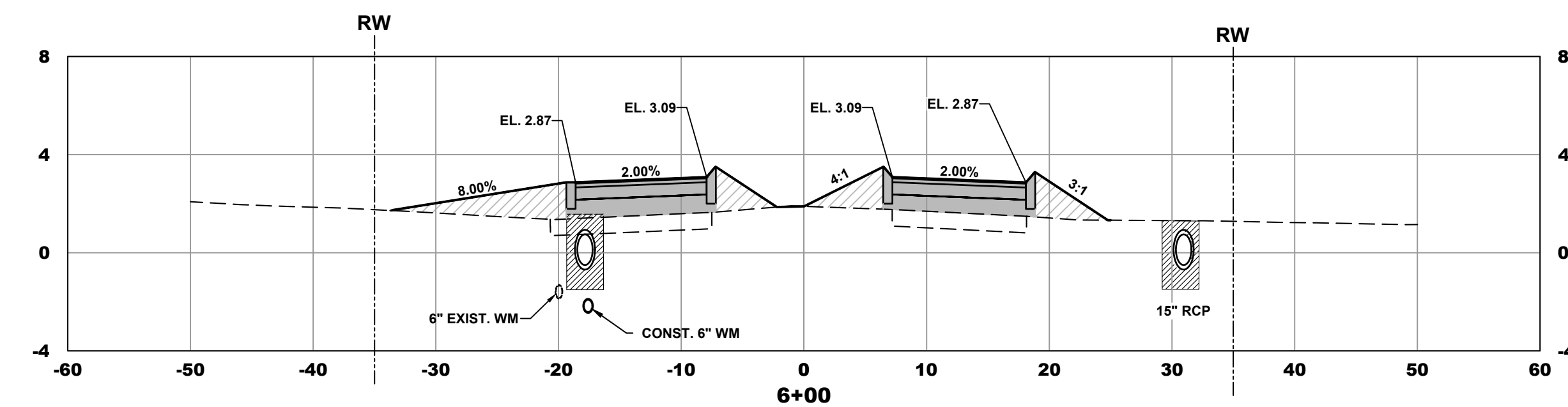
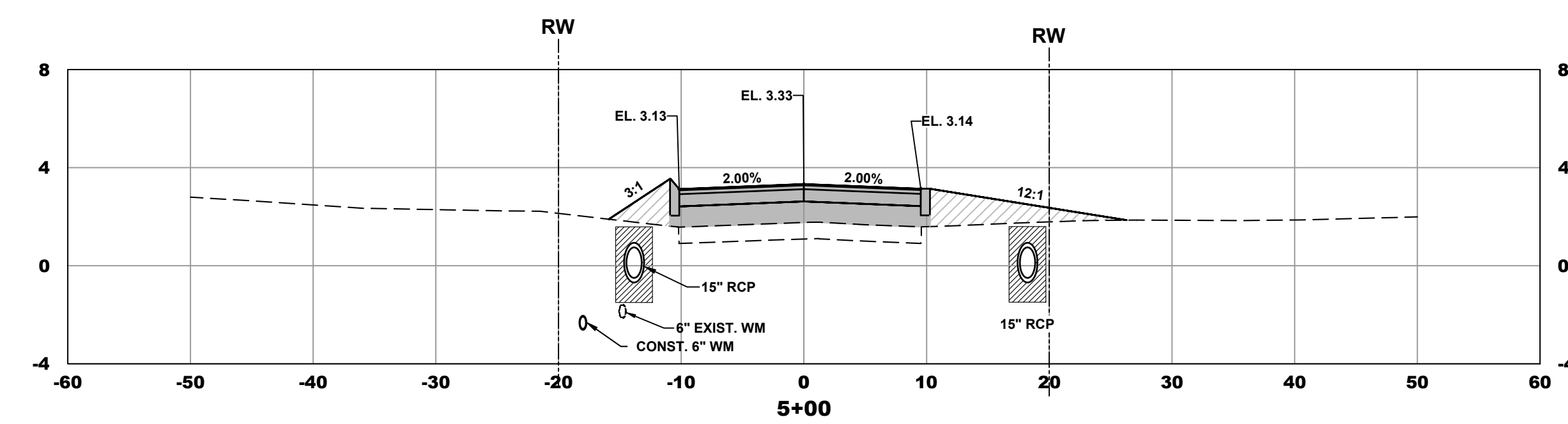
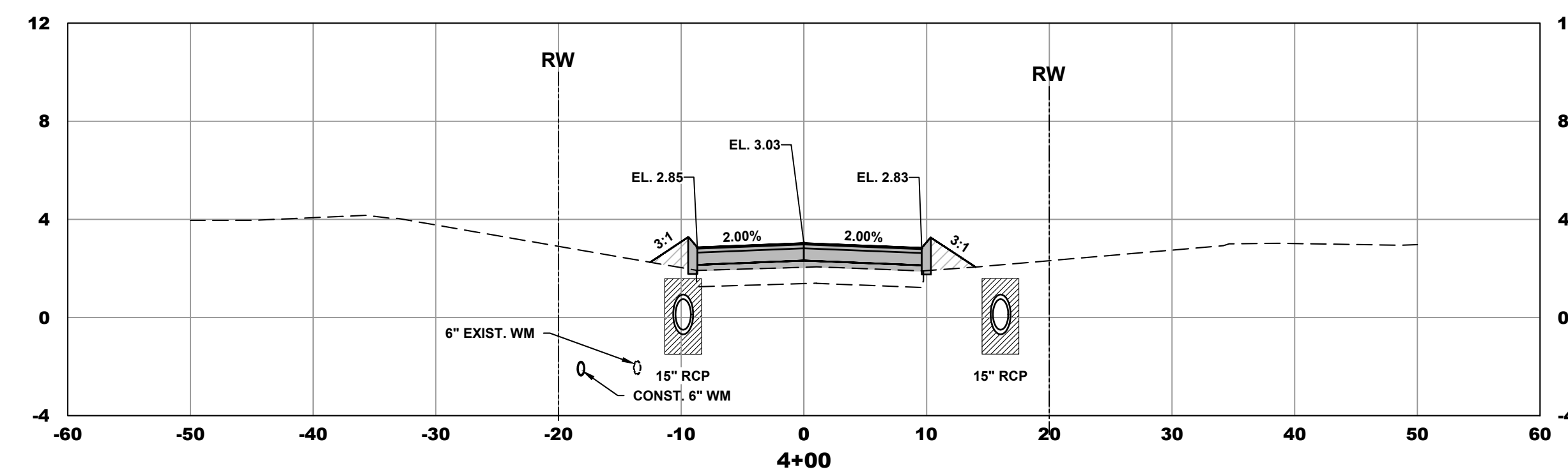
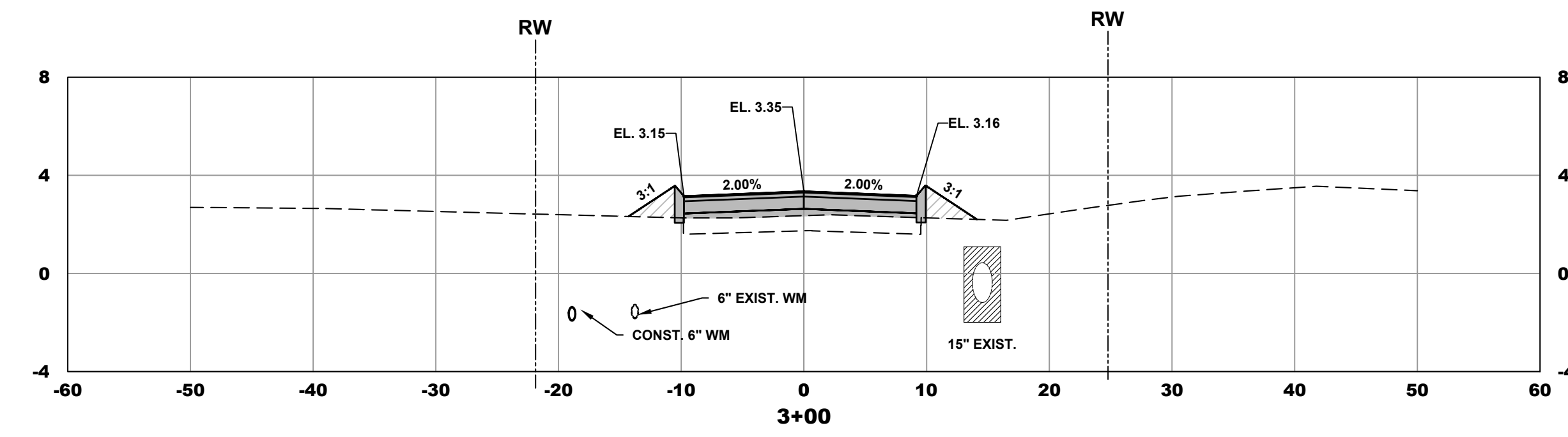
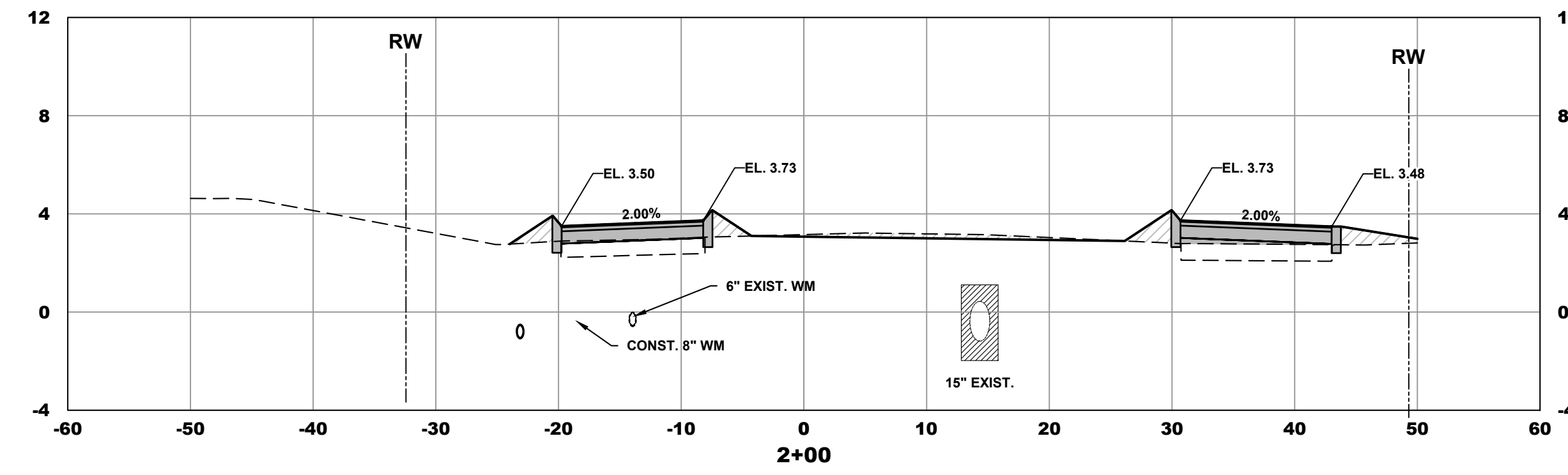
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

MARGUERITA RD.



**NOT IN PART 3
NOT PART OF CONTRACT**

MANDALAY RD.



LEGEND

- = FILL
- = BLACK BASE



DATE: 7/28/19

DRAWN BY: MDB
 DESIGNED BY: HLT
 CHECKED BY: JMC
 PROJECT NO.: 023-127
 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'
 CADD FILE:

NO.	DATE	BY	REVISIONS
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2	12-31-19	MDB / BID SET	

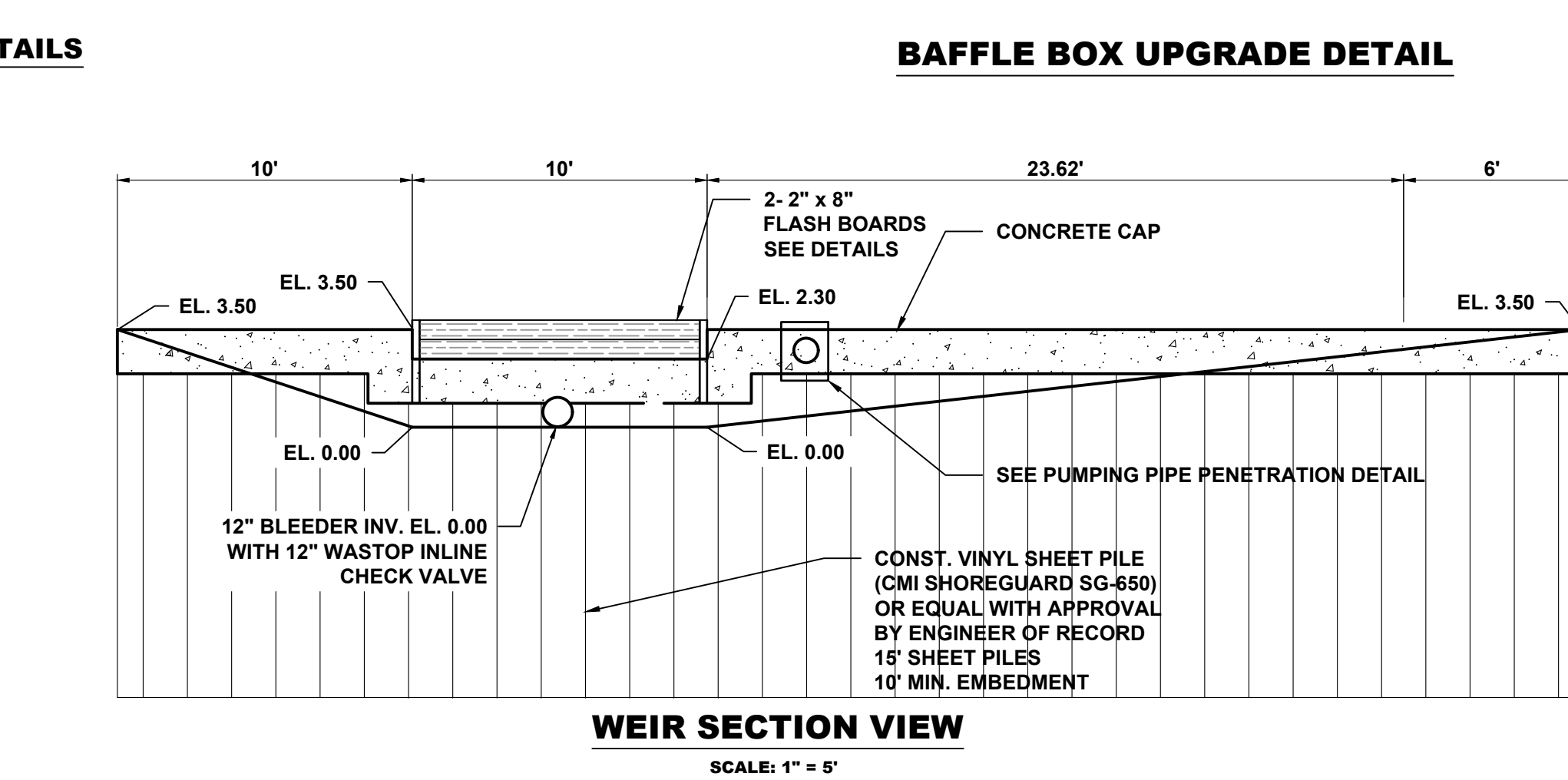
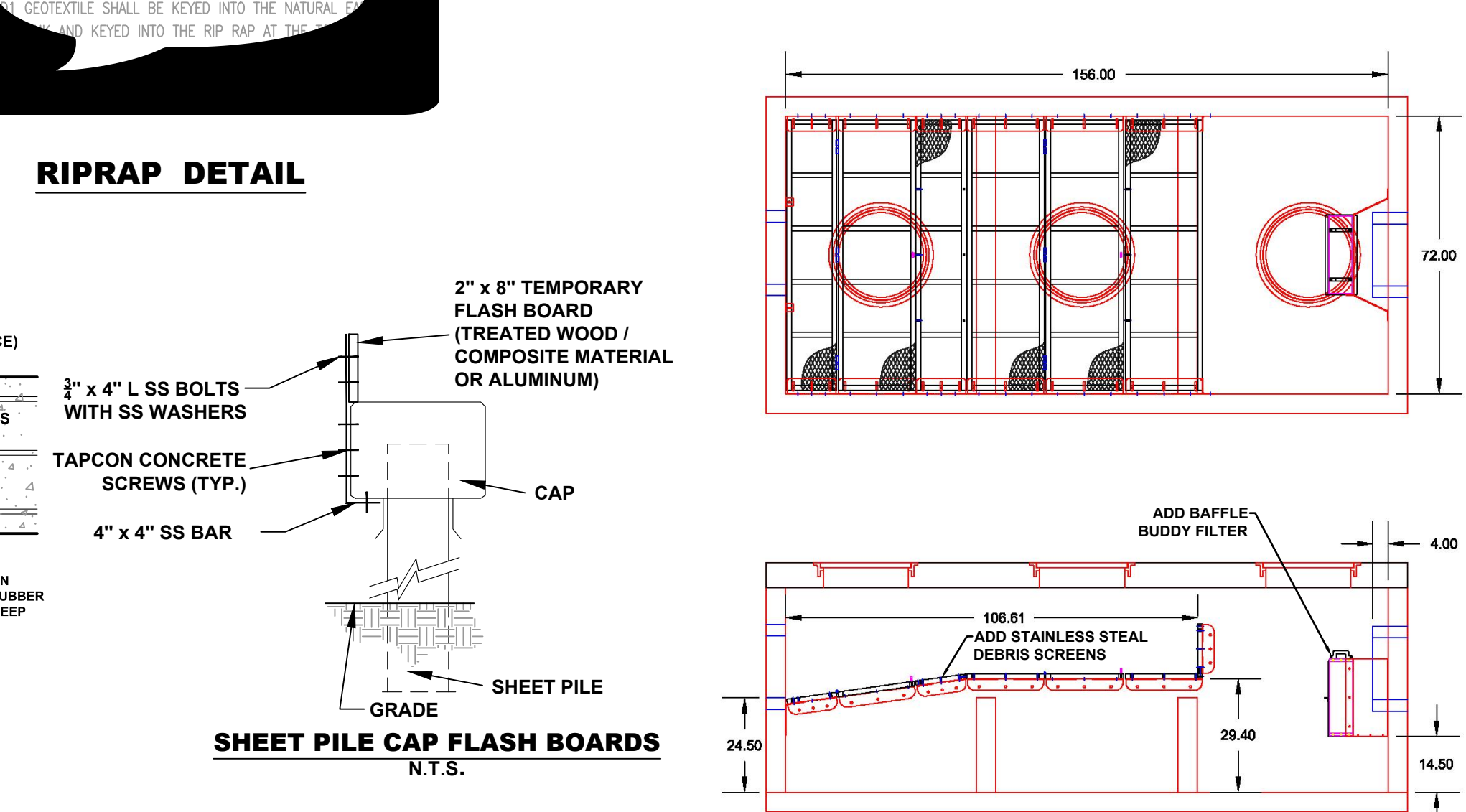
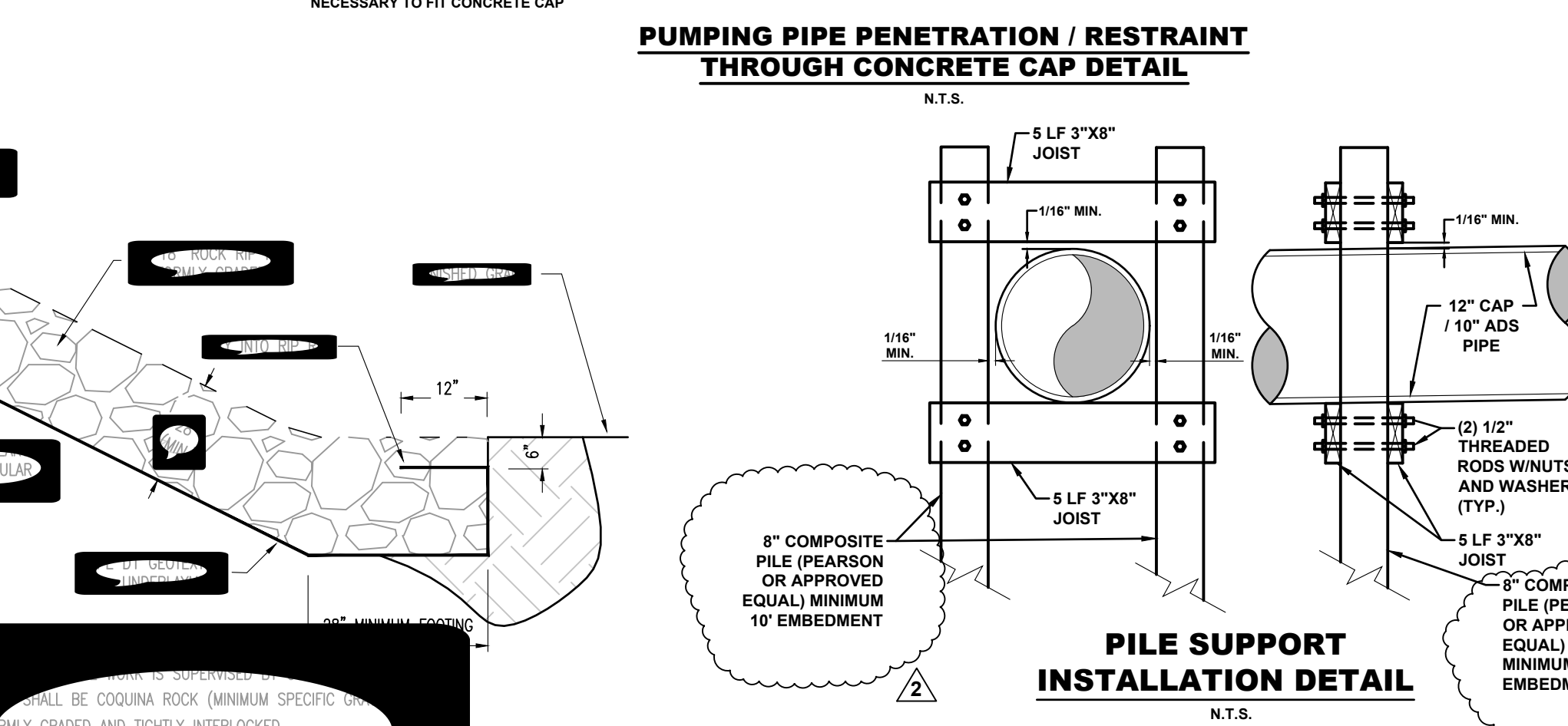
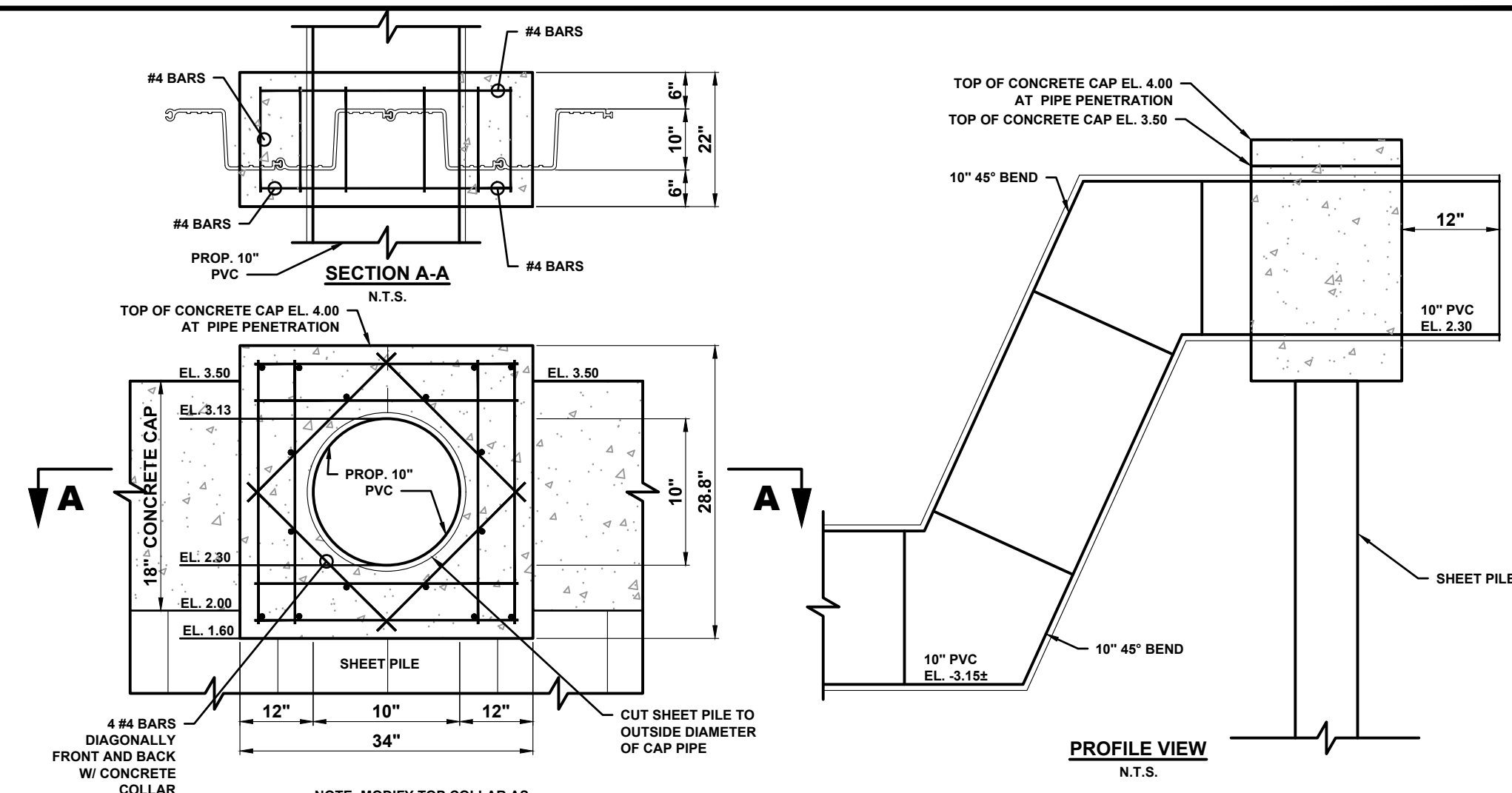
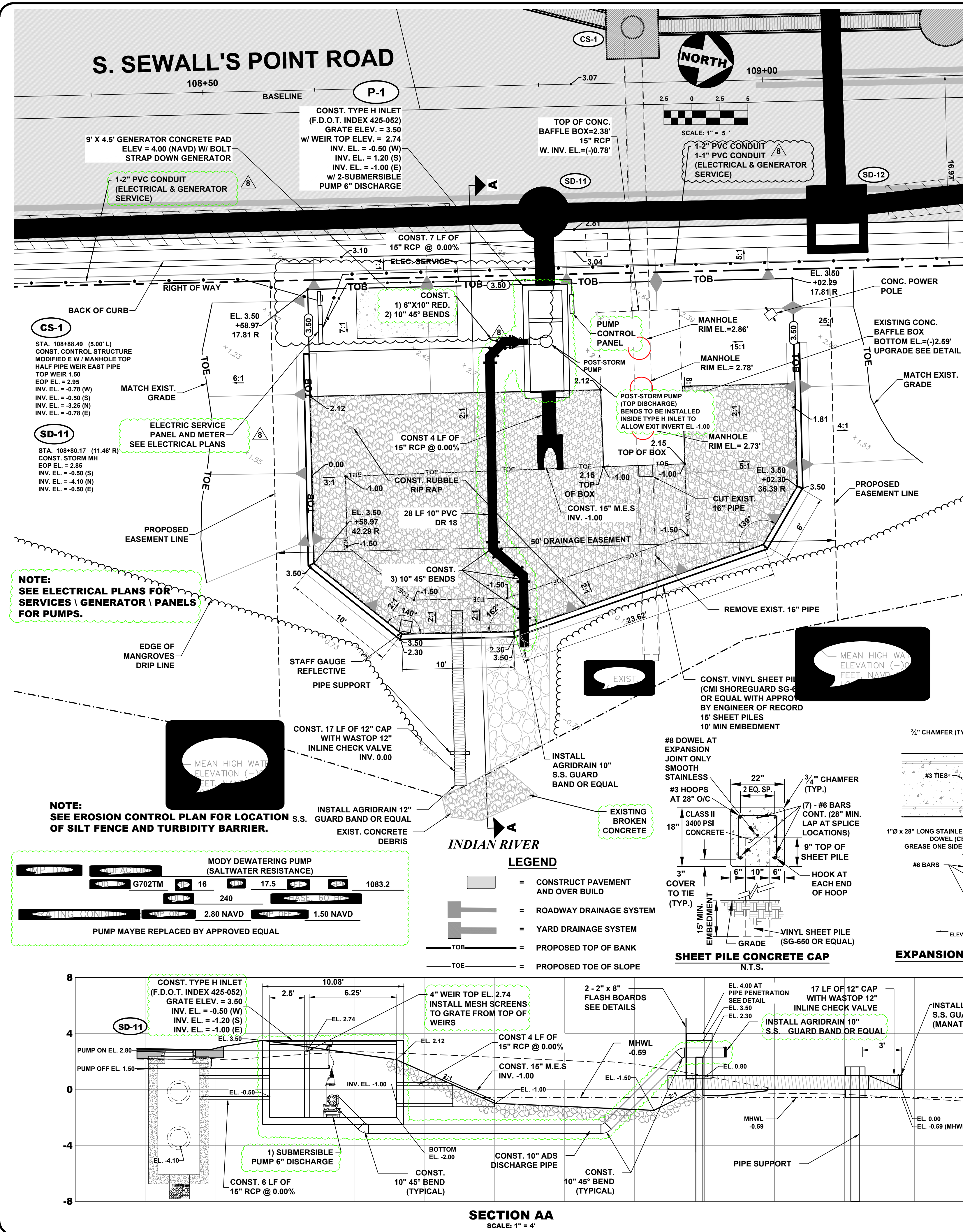
SCALE VERIFICATION
 1
 SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED ACCORDINGLY.

**S. SEWALL'S POINT RD.
 IMPROVEMENTS - PHASE 1
 TOWN OF SEWALL'S POINT - FLORIDA**
CROSS SECTIONS

Joseph W. Capra
 301 N.W. Flagler Ave.
 Stuart, Florida 34994
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S. SEWALL'S POINT ROAD



301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 892-4344
Fax: (772) 892-4341

Civil Engineering Professionals

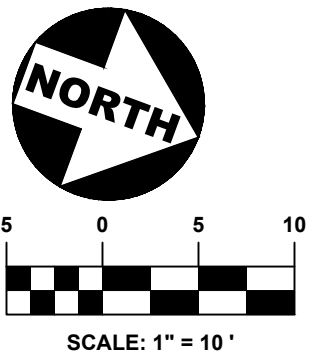
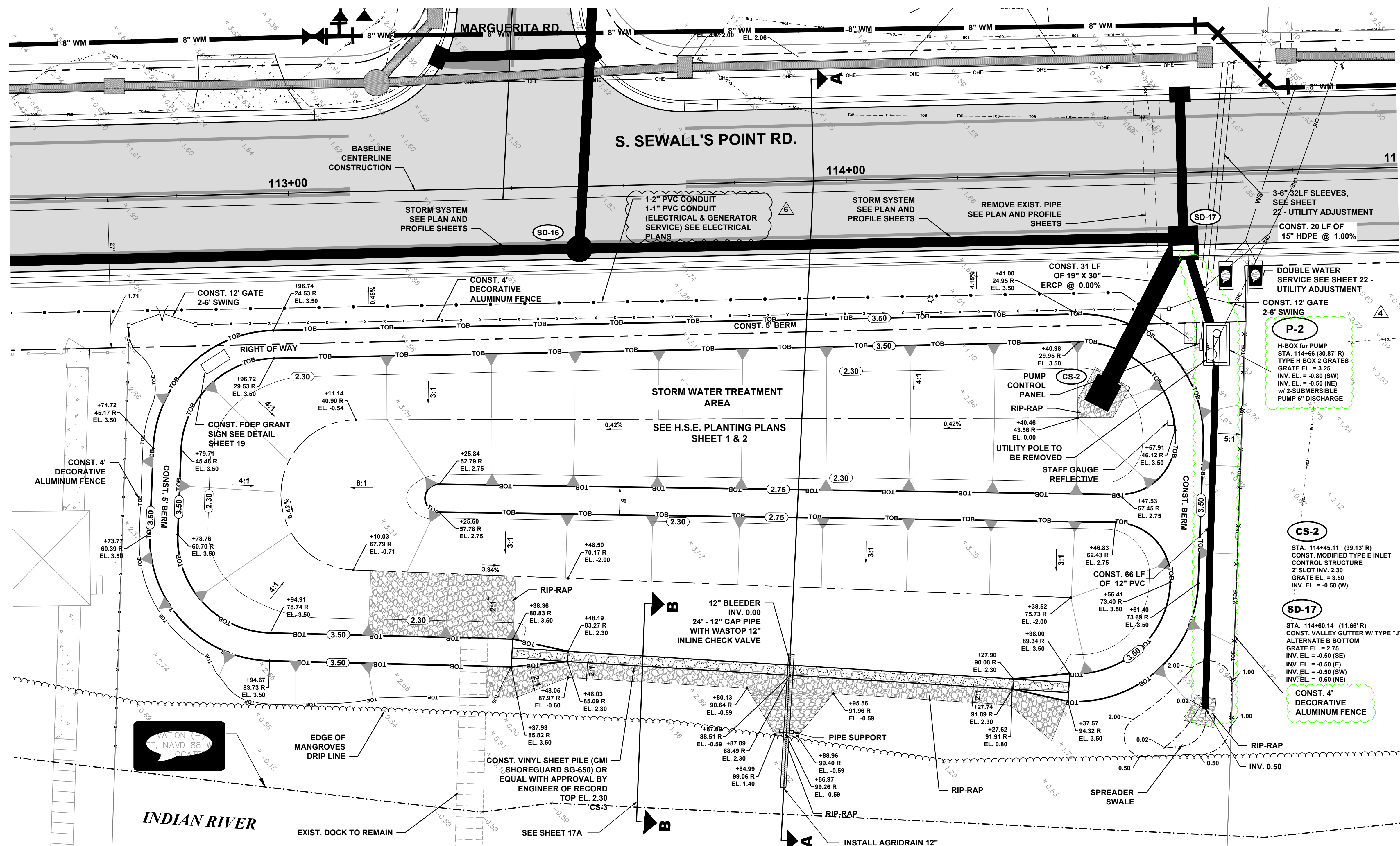
DATE: 1/28/19	DESIGNED BY: MDB	CHECKED BY: JNC	PROJECT NO.: 023-127	HORIZ. SCALE: 1" = 5'	VERT. SCALE: 1" = 5'	CADD FILE:
6-16-21	MDB	REVISION	DATE	BY	REVISIONS	
8	4-16-21	MDB	REVISION			
7	12-23-20	MDB	REVISION			
6	10-12-20	MDB	ADDED EASEMENT			
5	4-22-21	MDB	AFC			
4	2-27-20	MDB	ADDENDUM 4 REVISED PUMP			
3	2-18-20	MDB	ADDENDUM 3 ADDED ENTIRE SHEET			
2	2-7-20	MDB	ADDENDUM 2			
1	12-31-19	MDB	BID SET			

S. SEWALL'S POINT RD.
IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT - FLORIDA
**OUTFALL WITH BACKUP
PUMP SYSTEM**
EXHIBIT 4

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

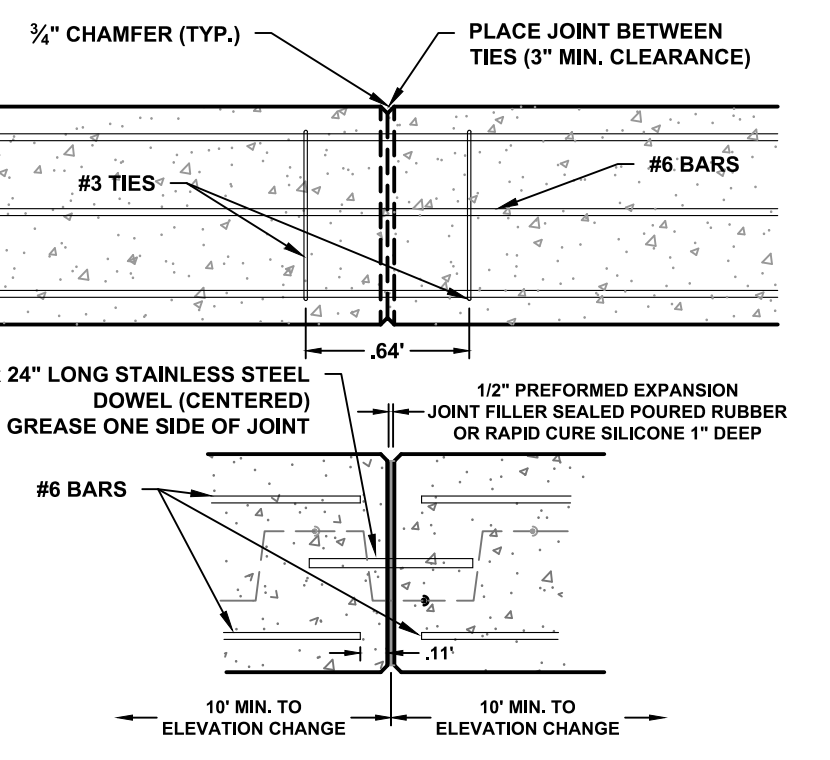
Printed Date:

JOB No.: **023-127**
SHEET **16** OF **26**

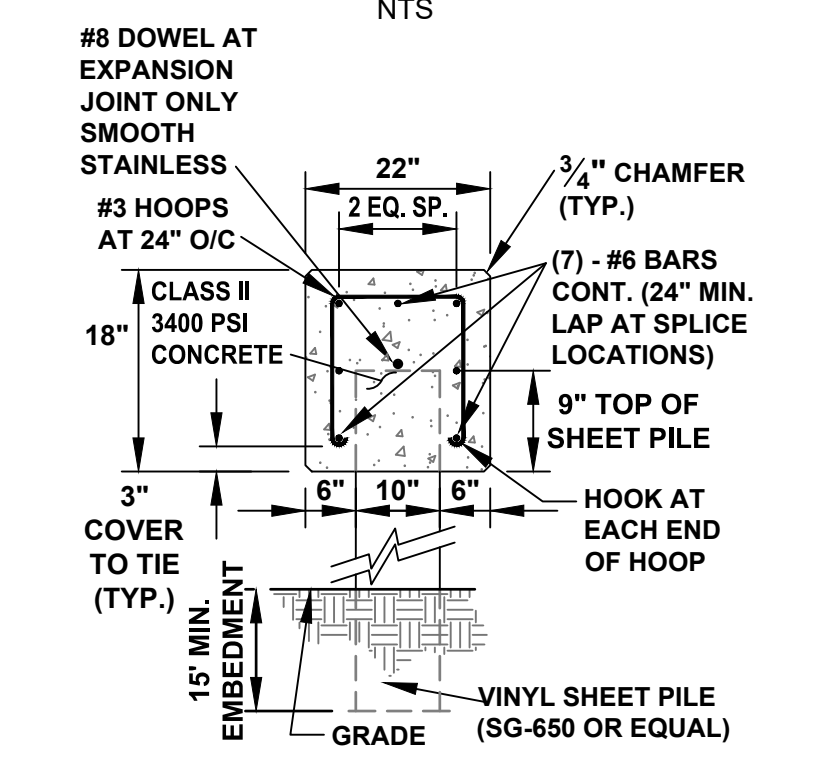


LEGEND

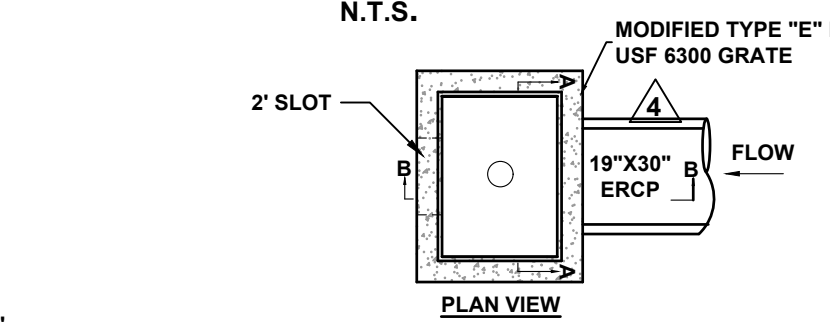
- = CONSTRUCT PAVEMENT AND OVER BUILD
- = ROADWAY DRAINAGE SYSTEM
- = YARD DRAINAGE SYSTEM
- = PROPOSED TOP OF BANK
- = PROPOSED TOE OF SLOPE



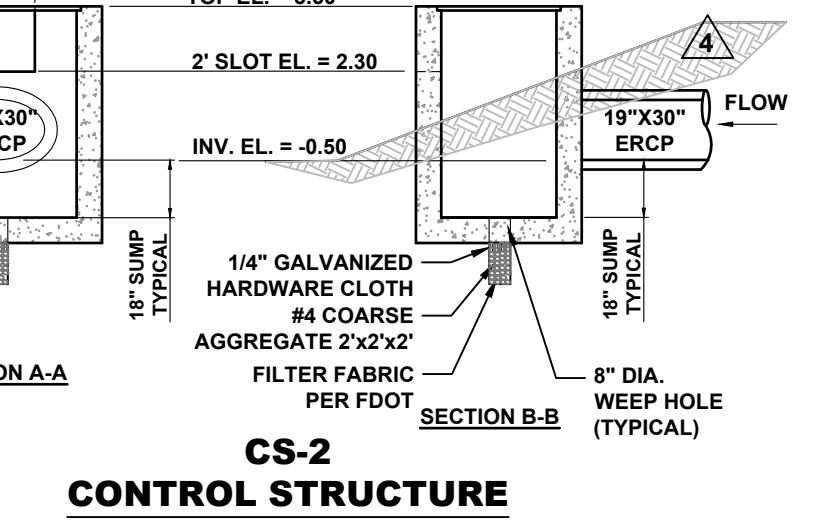
EXPANSION/CONTRACTION JOINT DETAILS



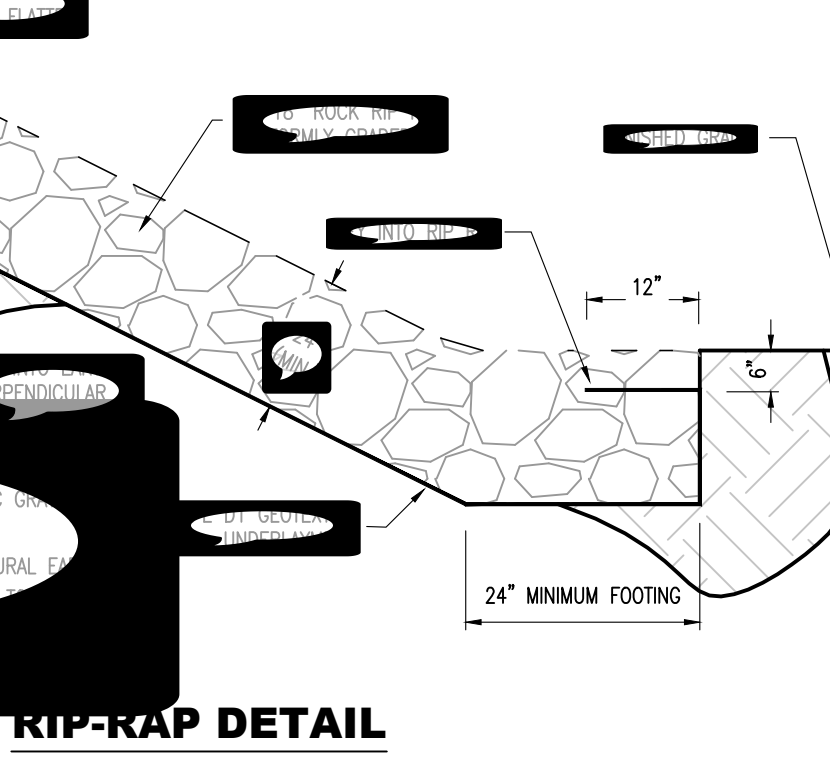
SHEET PILE CONCRETE CAP



CS-2 CONTROL STRUCTURE



CS-2 CONTROL STRUCTURE



RIP-RAP DETAIL

301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 892-4344
Fax: (772) 892-4341

Civil Engineering Professionals
No. EB-00767

DATE: 7/28/19
DRAWN BY: MDB
DESIGNED BY: HLT
CHECKED BY: JMC
PROJECT NO.: 023-127
JOB NO.: 023-127
HORZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'
CADD FILE:

NO.	DATE	BY	REVISIONS
1	12-31-19	MDB	BID SET
2	1-24-20	MDB	ADDENDUM 1
3	4-22-21	MDB	AFC
4	9-21-20	MDB	REVISED PIPE TO CS-2 TO OVAL 19"X30"
5	2-8-21	MDB	REVISED
6	4-16-21	MDB	REVISED CONDUIT

SCALE VERIFICATION

1
0

SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED ACCORDINGLY.

S. SEWALL'S POINT RD. IMPROVEMENTS - PHASE 1
TOWN OF SEWALL'S POINT, FLORIDA
TREATMENT AREA (STA) & PUMP

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

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