STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 406144-1-52-01

PALM BEACH COUNTY (93470)

STATE ROAD NO. 91

WIDENING OF FLORIDA'S TURNPIKE FROM NORTH OF SR 804 (BOYNTON BEACH BLVD) (MP 88) TO NORTH OF SR 802 (LAKE WORTH ROAD) (MP 94) (WIDENING FROM 4 LANES TO 8 LANES)

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
TOLL FACILITIES PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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45	OPTIONAL MATERIALS TABULATION
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257 -263	POND DETAIL SHEET
264 - 747	CROSS SECTIONS
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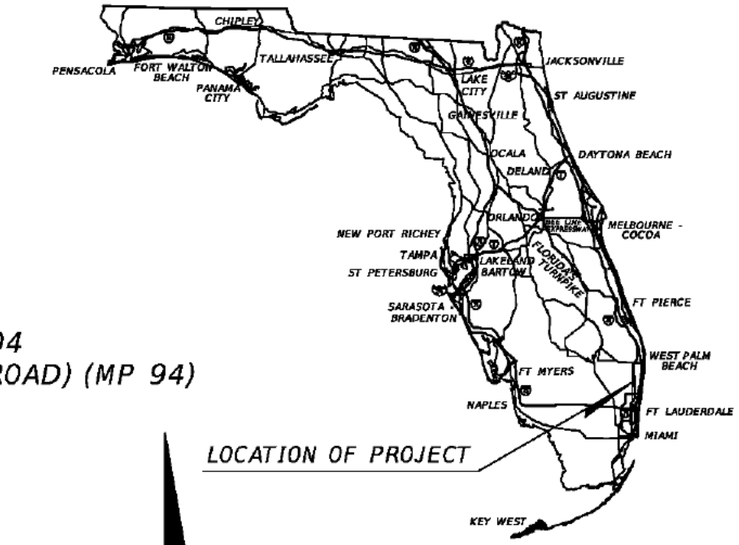
792 - 795	TRAFFIC CONTROL PLAN
GR-1	ROADWAY SOIL SURVEY
UTV-1 thru UTV-12	SUMMARY OF VERIFIED UTILITIES

* These sheets are included in the Index of Roadway Plans only to indicate that they are part of the Roadway Plans. These sheets are contained in a separate digitally signed and sealed document.

*** Traffic Control Plans are included in the Phase II Utility Submittal



N

0 2 4
Miles

This project is design to NAVD, 1988 Datum.

END PROJECT FPID 406144-1-52-01
STA 2454+00.00
℄ CONST SR 91
(FLORIDA'S TURNPIKE)
COUNTY MP 21.023
TURNPIKE MP 94.083

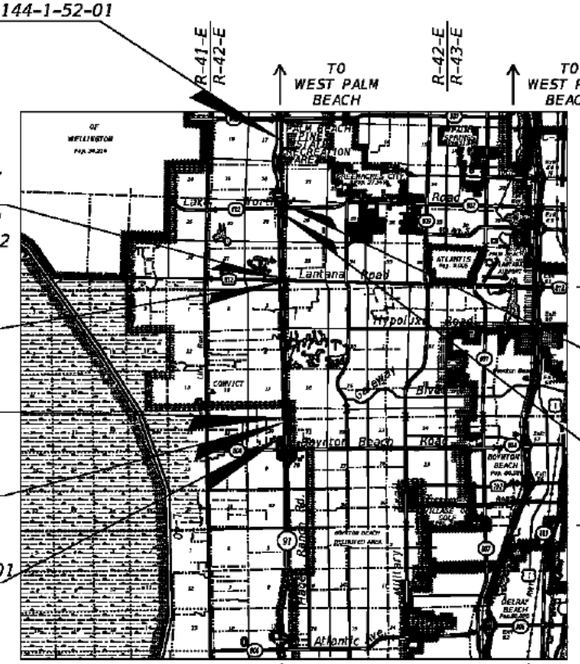
END BRIDGE #931002(NB) & #931003(SB)
℄ CONST SR 91
STA 2299+88.32

BEGIN BRIDGE #931002(NB) & #931003(SB)
℄ CONST SR 91
STA 2298+55.82

END BRIDGE #931010
℄ CONST SR 91
STA 2112+54.11

BEGIN BRIDGE #931010
℄ CONST SR 91
STA 2111+67.11

BEGIN PROJECT FPID 406144-1-52-01
STA 2084+97.25
℄ CONST SR 91
(FLORIDA'S TURNPIKE)
COUNTY MP 14.034
TURNPIKE MP 87.094



T-44-S TO LANTANA
T-45-S

END BRIDGE #931001
℄ CONST SR 91
STA 2398+24.42

BEGIN BRIDGE #931001
TO BOYNTON BEACH
℄ CONST SR 91
STA 2396+78.38
T-45-S
T-46-S

ROADWAY PLANS
ENGINEER OF RECORD:

HOOI GIN NG, P.E.
P.E. NO.: 58123
KIMLEY-HORN AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND PLANNERS
1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
PHONE (561) 845-0665
CONTRACT NO. C-8E12
VENDOR NUMBER: VF-560-885-615-001
CERTIFICATE OF AUTHORIZATION NO. 696

FDOT PROJECT MANAGER:
PATRICK MUENCH, P.E.

GEC PROJECT MANAGER:
CRAIG BOSTIC, P.E.

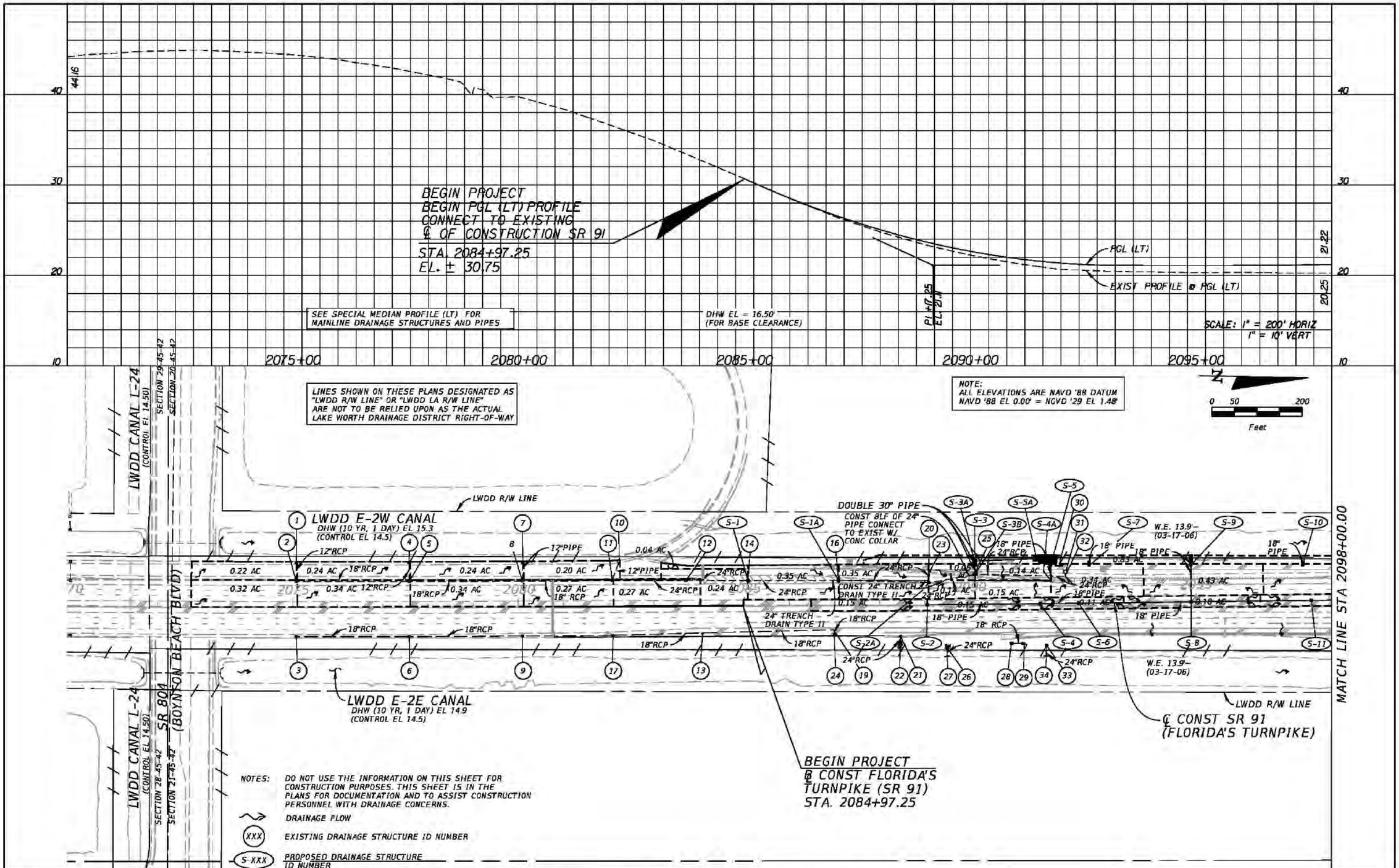
GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2017-18 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm

REVISIONS:

KEY SHEET REVISIONS	
DATE	DESCRIPTION

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, July 2017 Standard Specifications for Road and Bridge Construction at the following website:
http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	18	1



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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

DRAINAGE MAP

SHEET NO. 2

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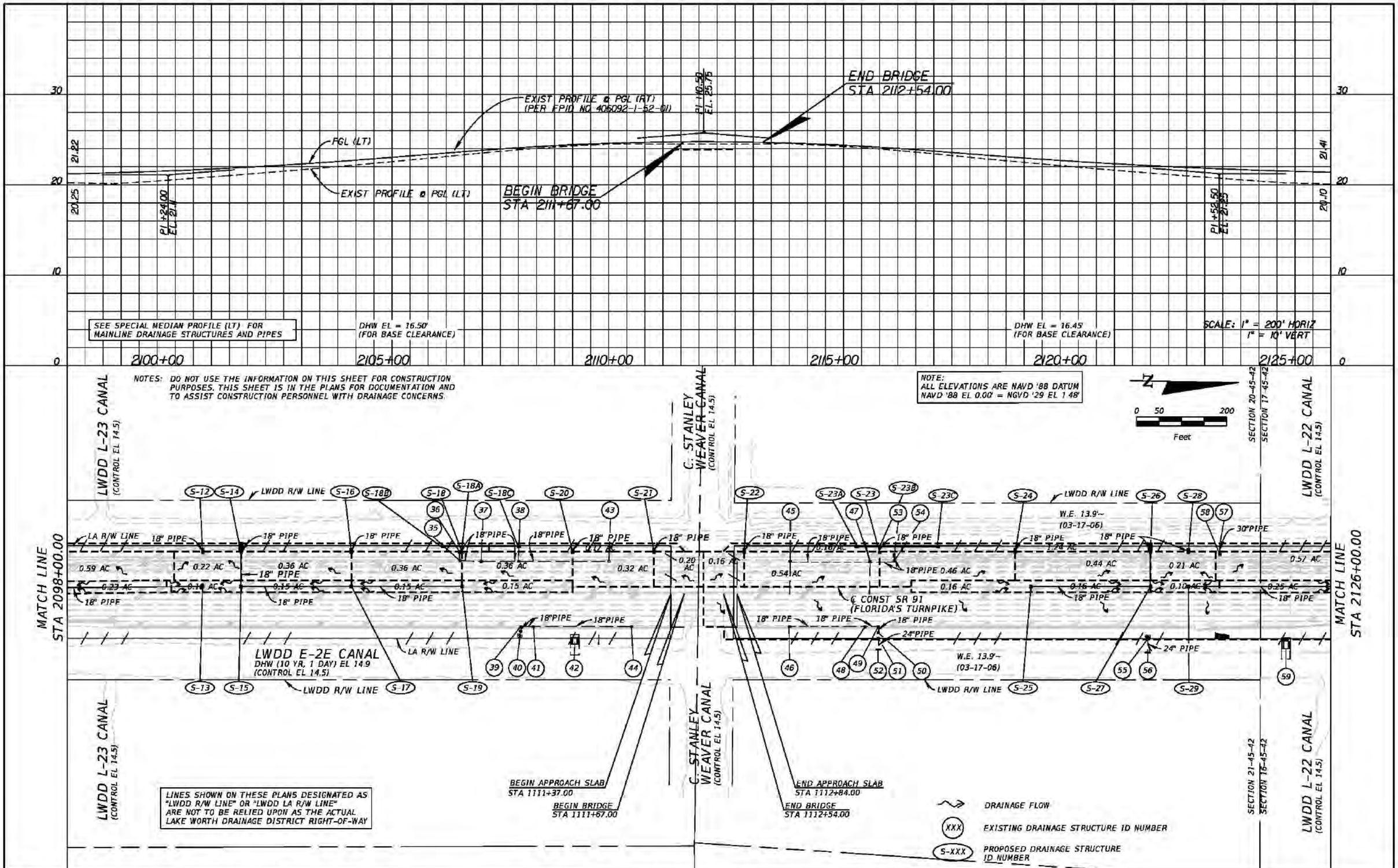

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DRAINAGE MAP

SHEET NO. 3

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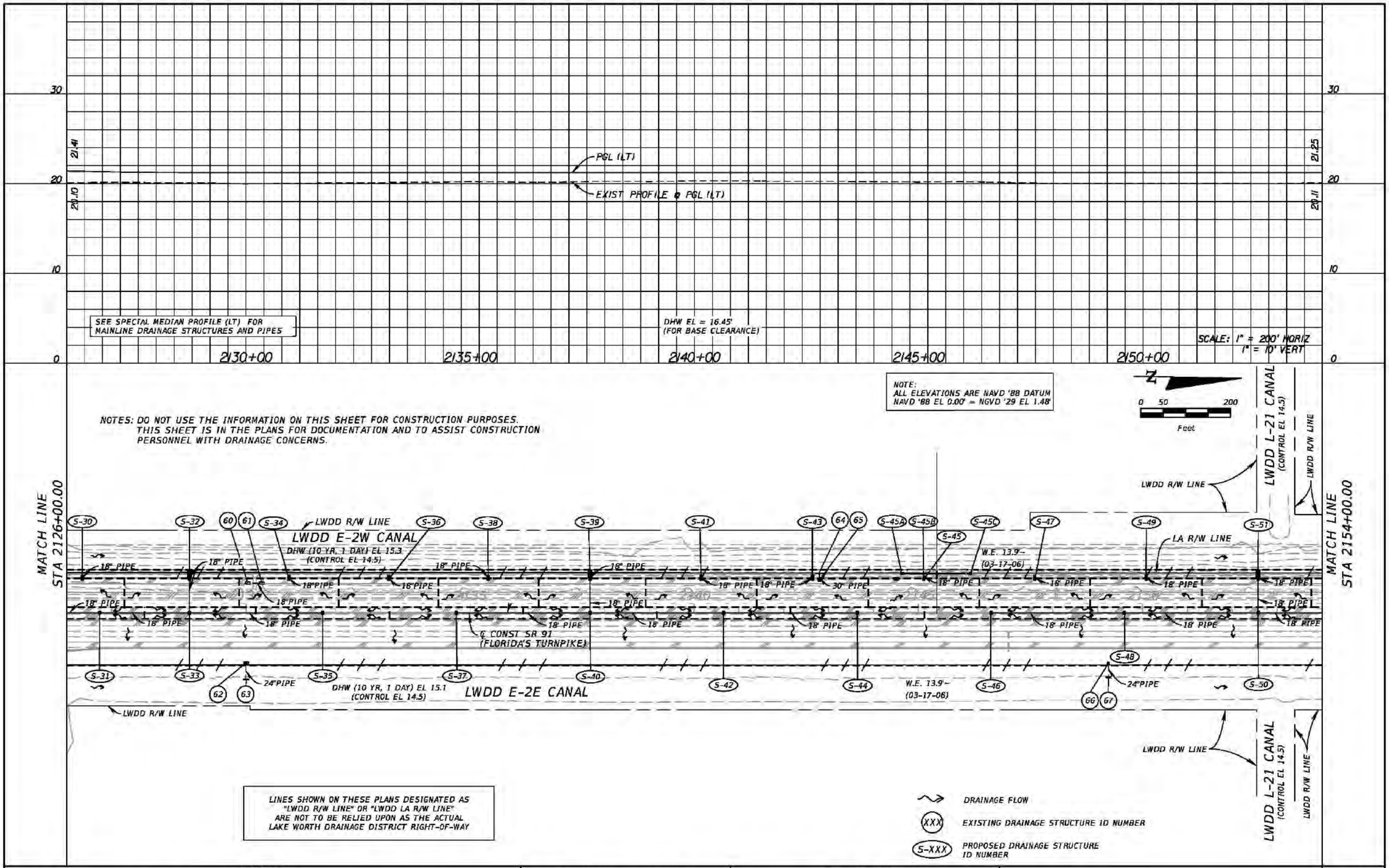

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DRAINAGE MAP

SHEET NO.
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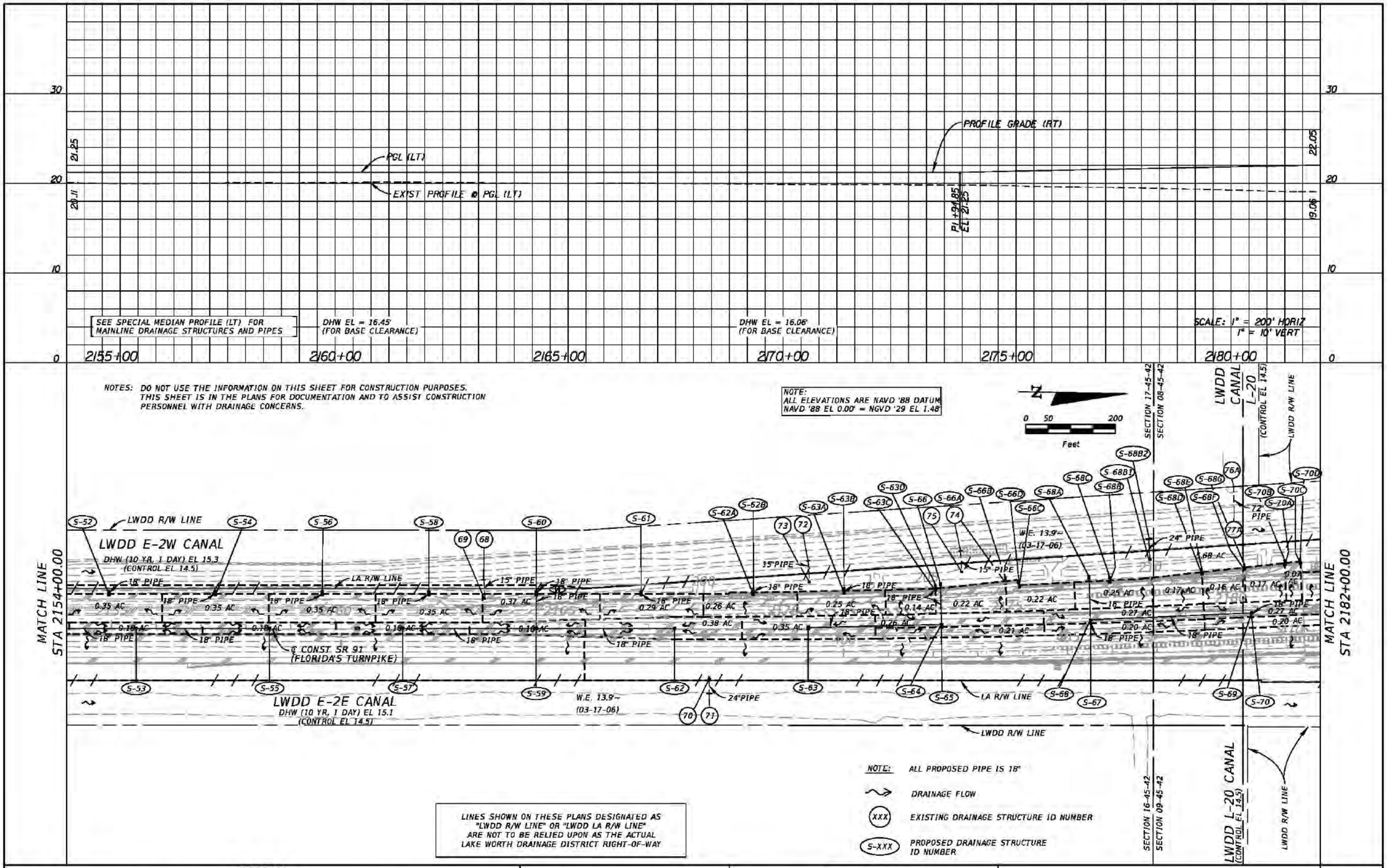

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DRAINAGE MAP

SHEET NO. 5

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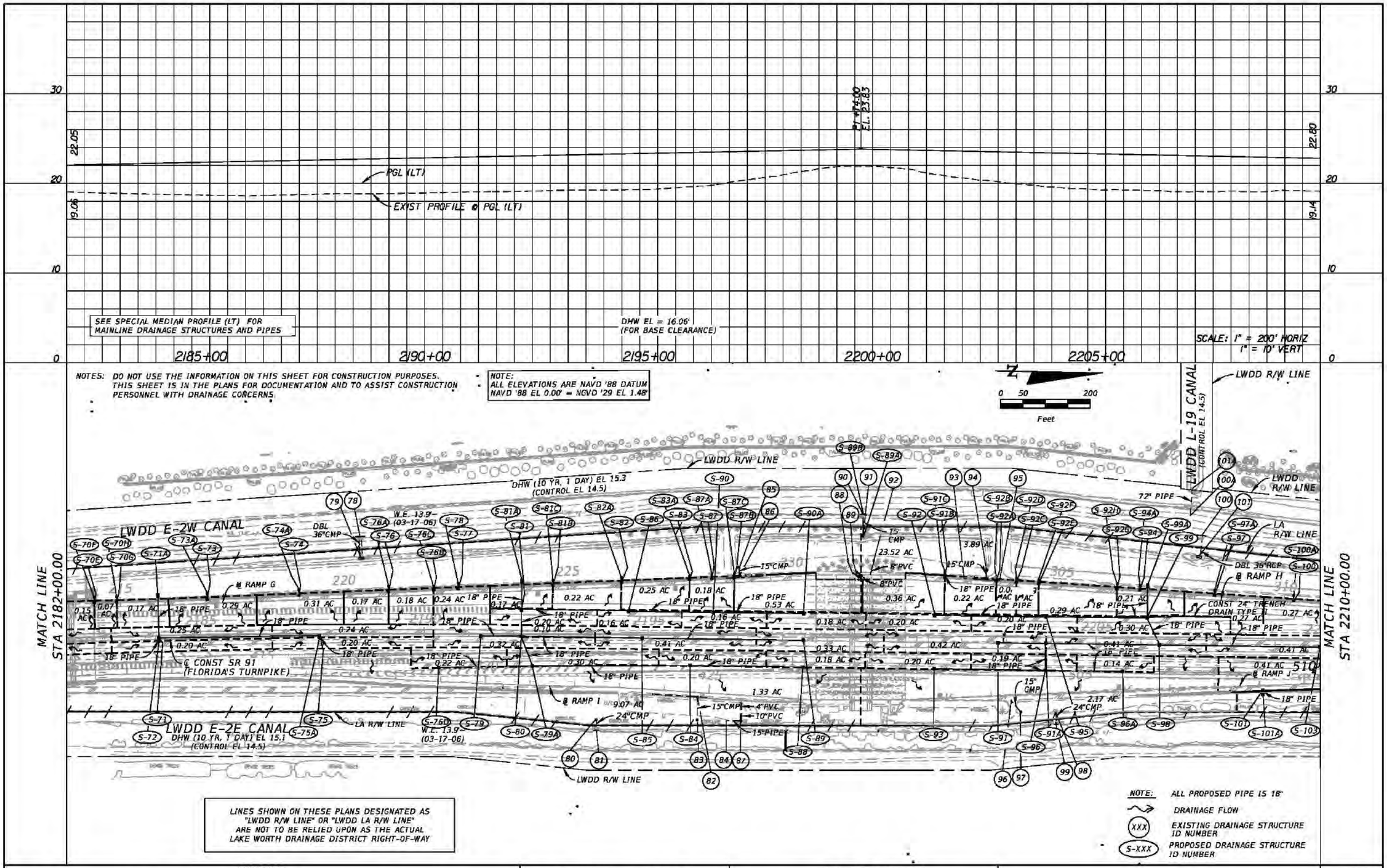

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DRAINAGE MAP

SHEET NO. 6

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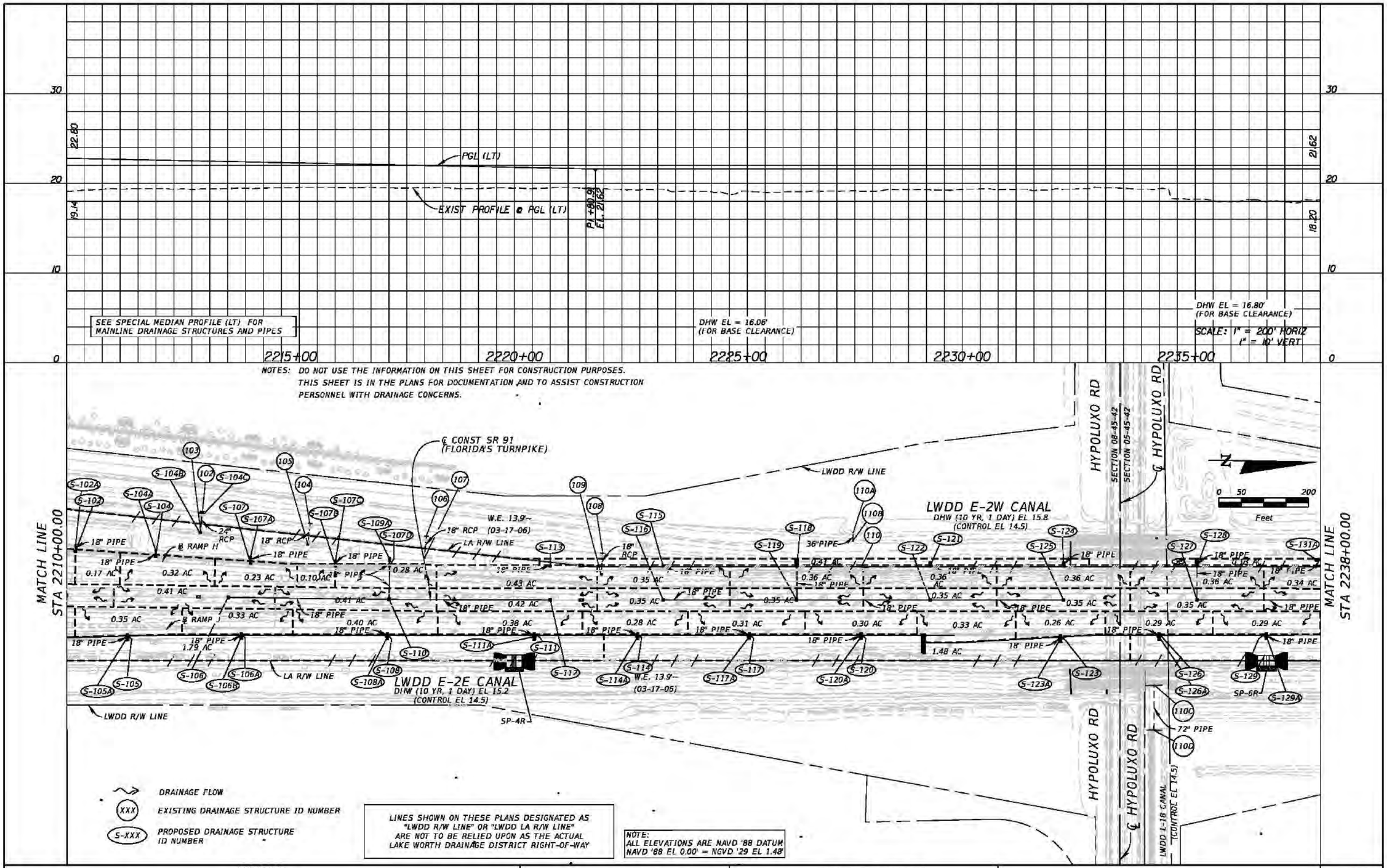

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DRAINAGE MAP

SHEET NO. 7

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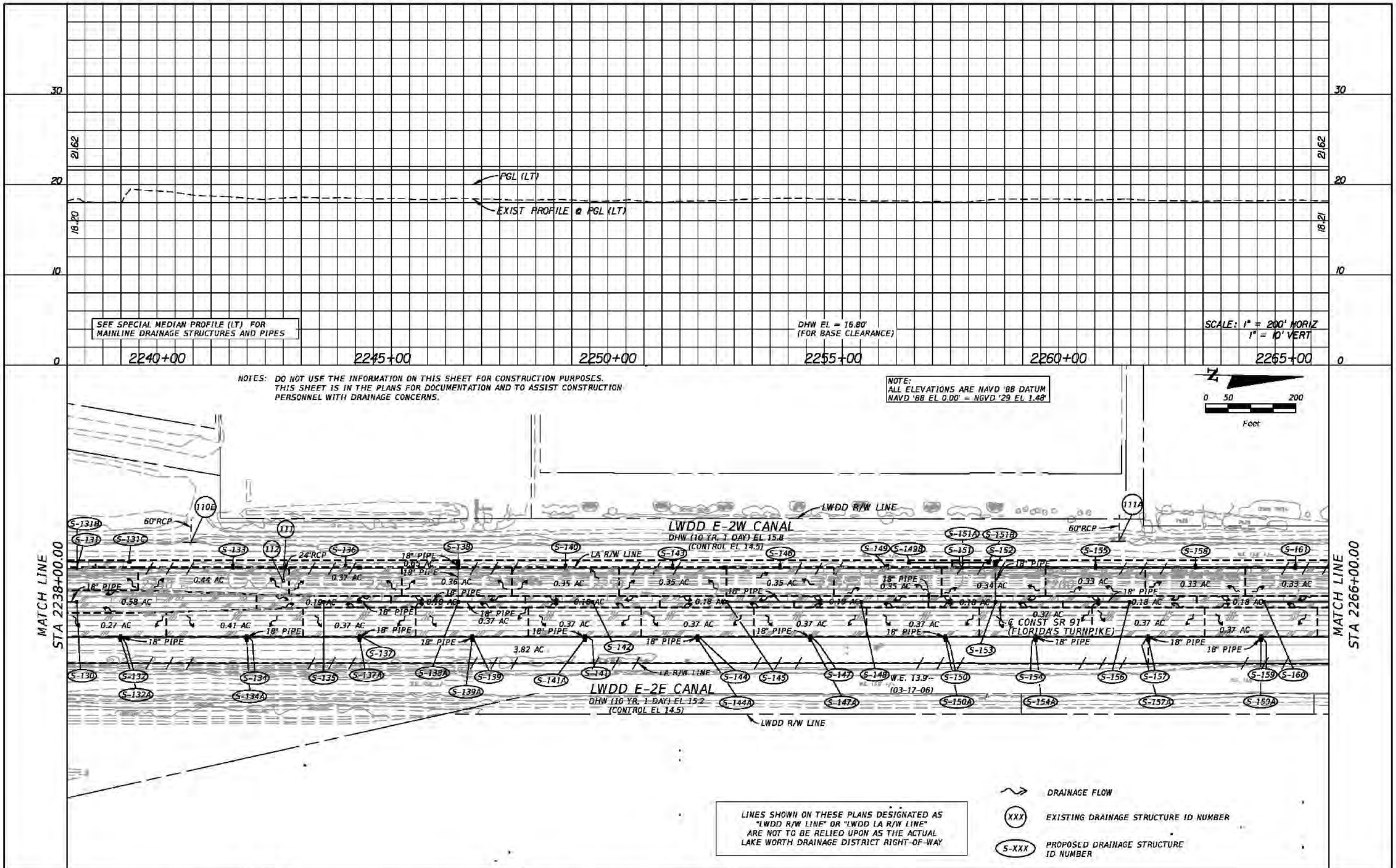

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DRAINAGE MAP

SHEET NO. 8

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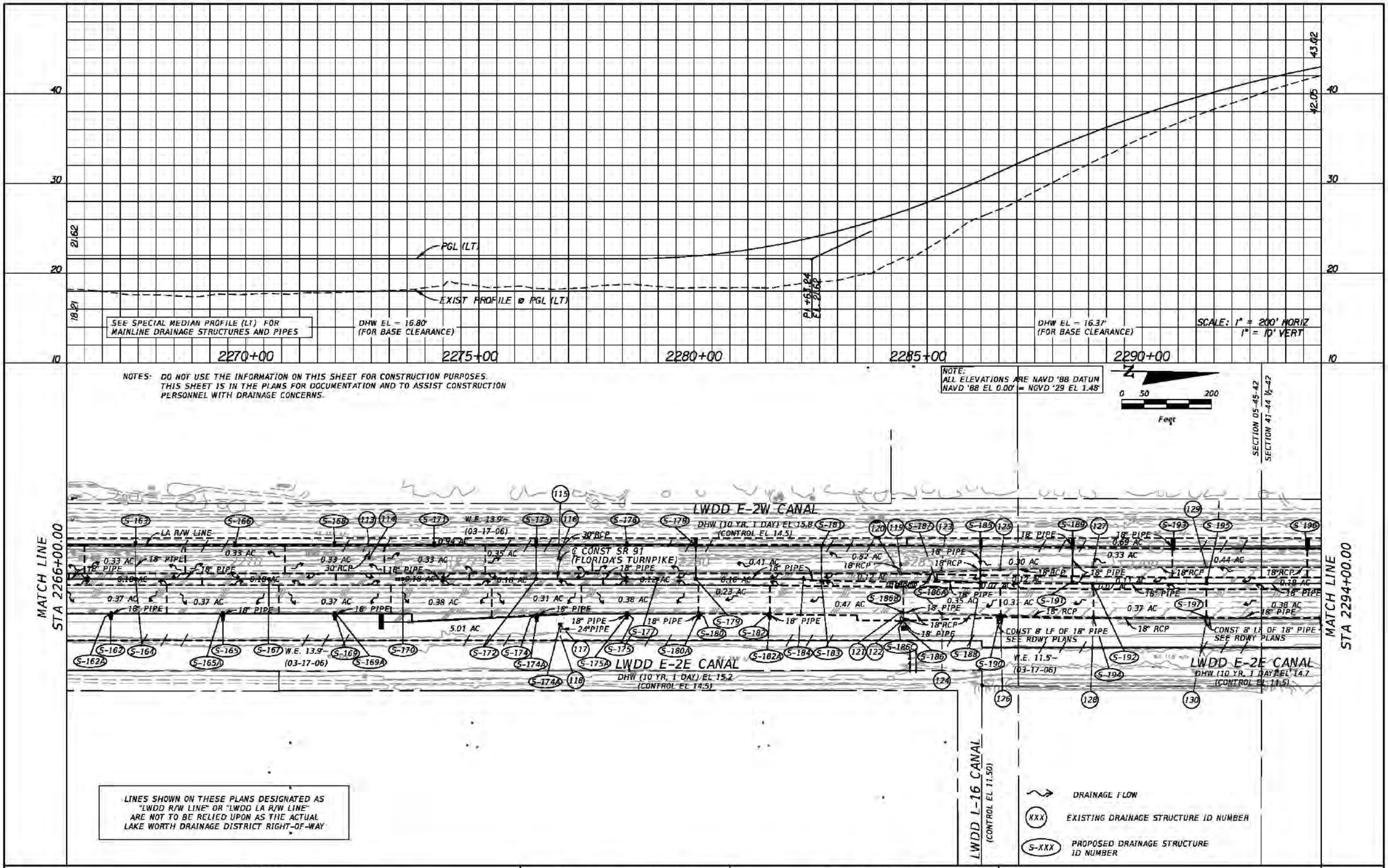

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DRAINAGE MAP

SHEET NO. 9

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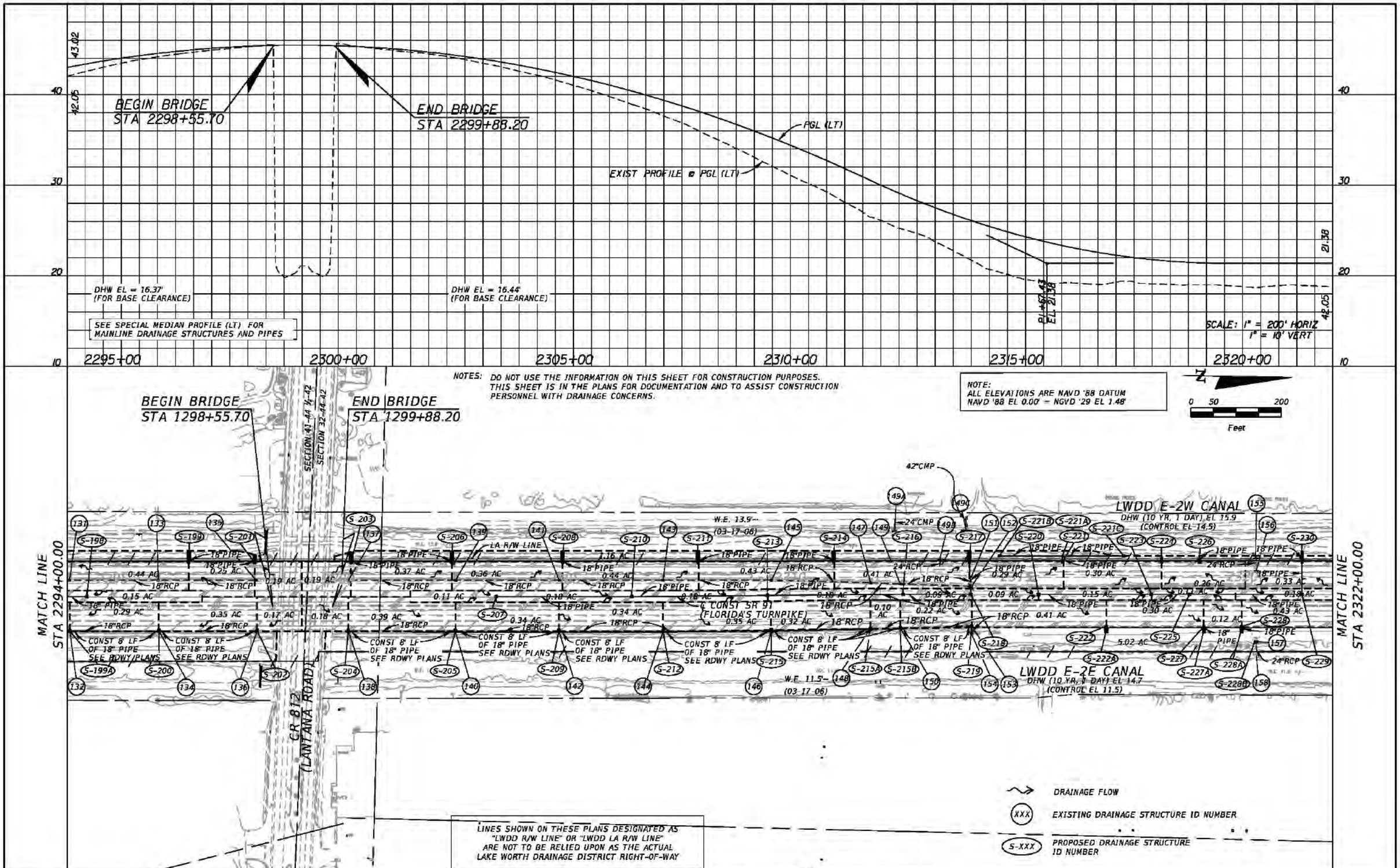

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DRAINAGE MAP

SHEET NO.
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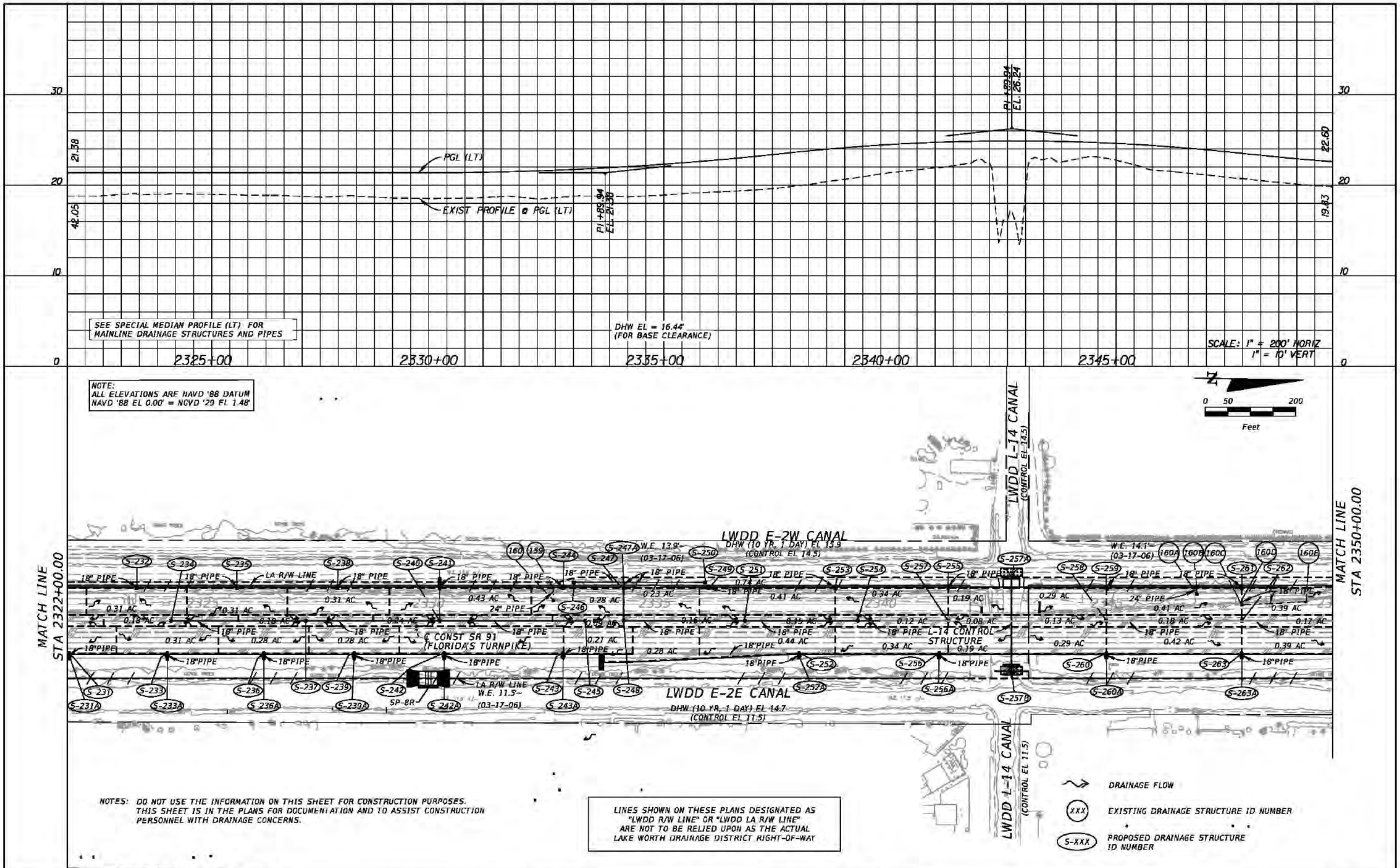

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DRAINAGE MAP

SHEET NO. 11

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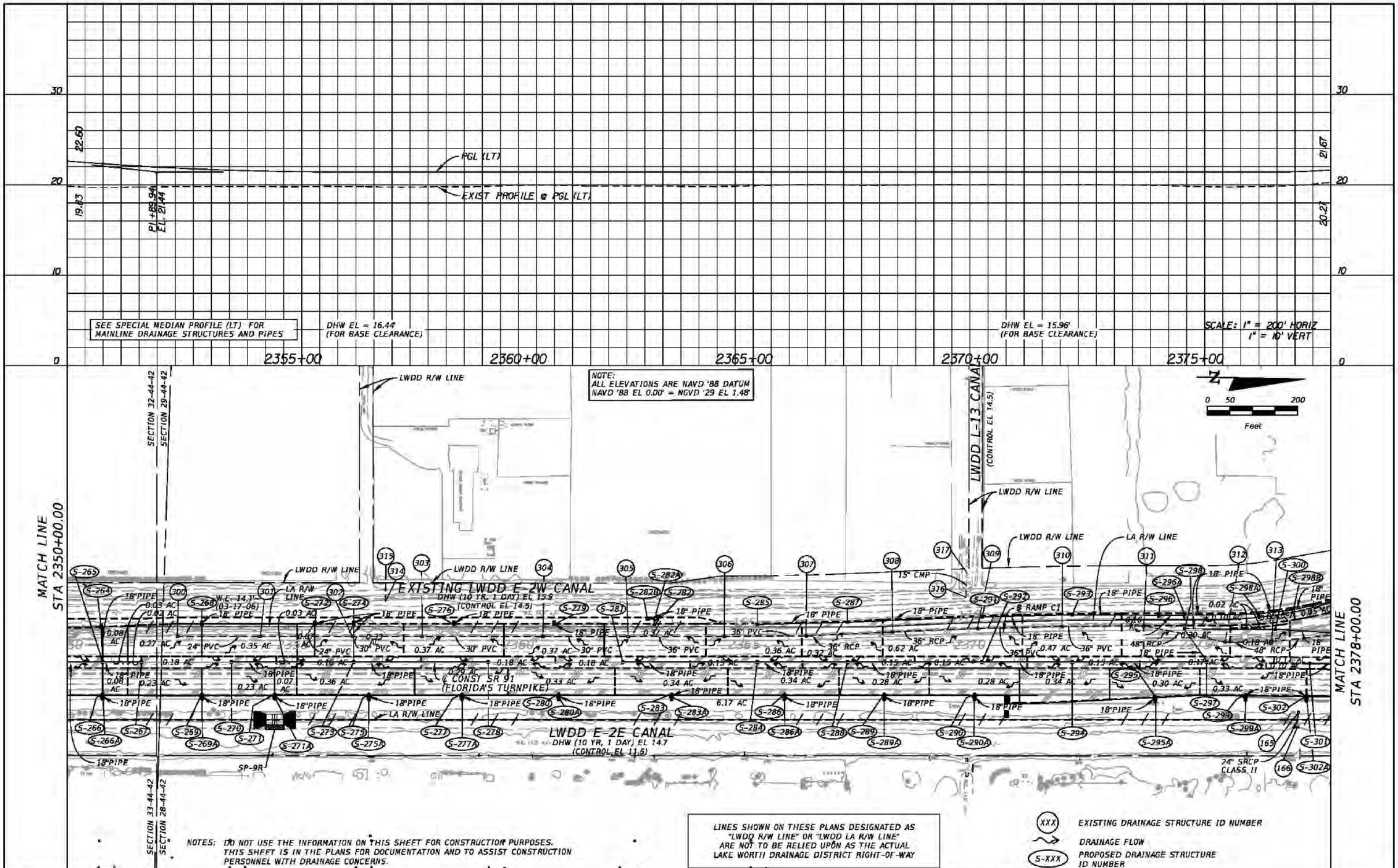

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DRAINAGE MAP

SHEET NO. 12

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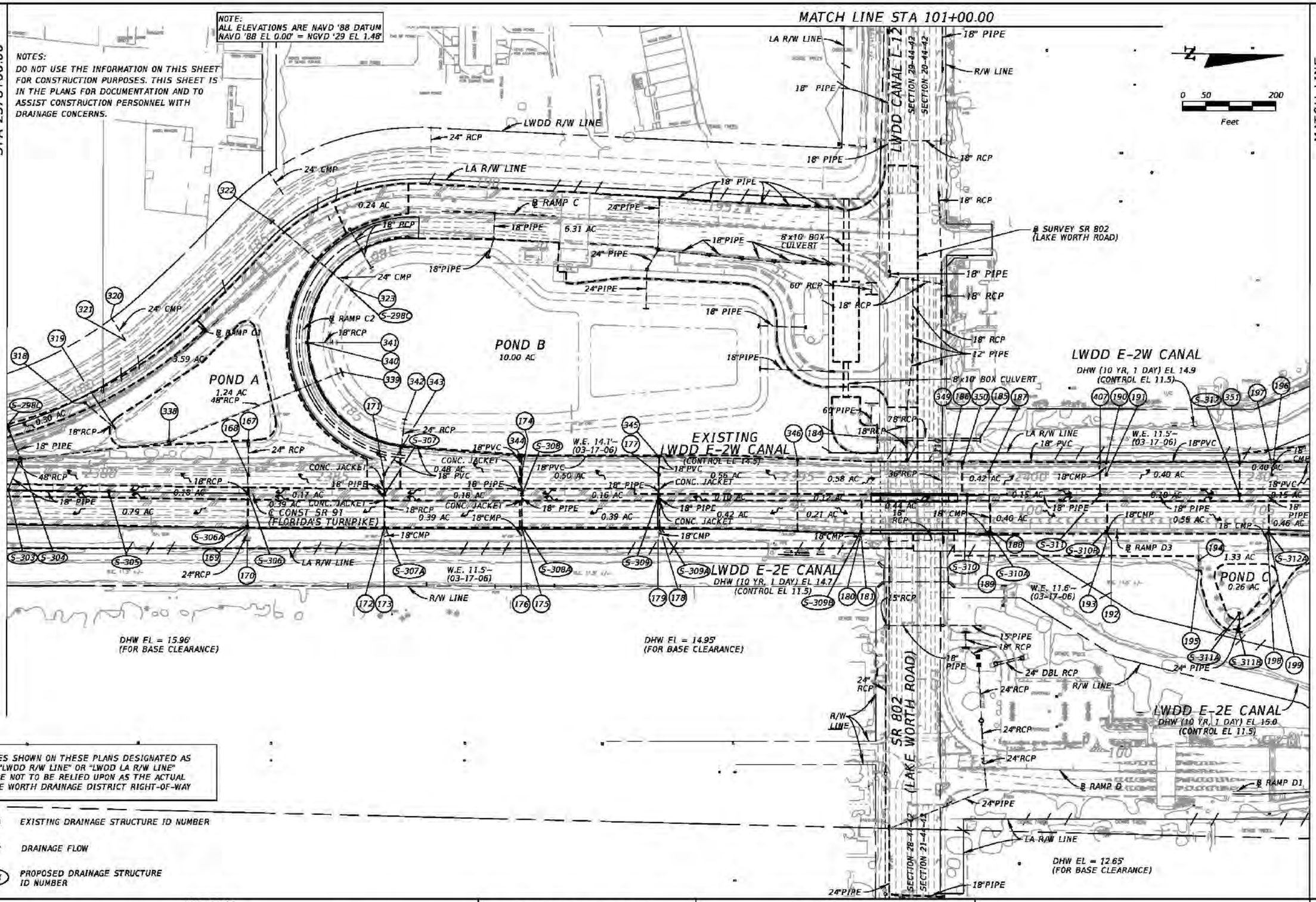

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91	PALM BEACH	406144-1-52-01

DRAINAGE MAP

SHEET NO. 13

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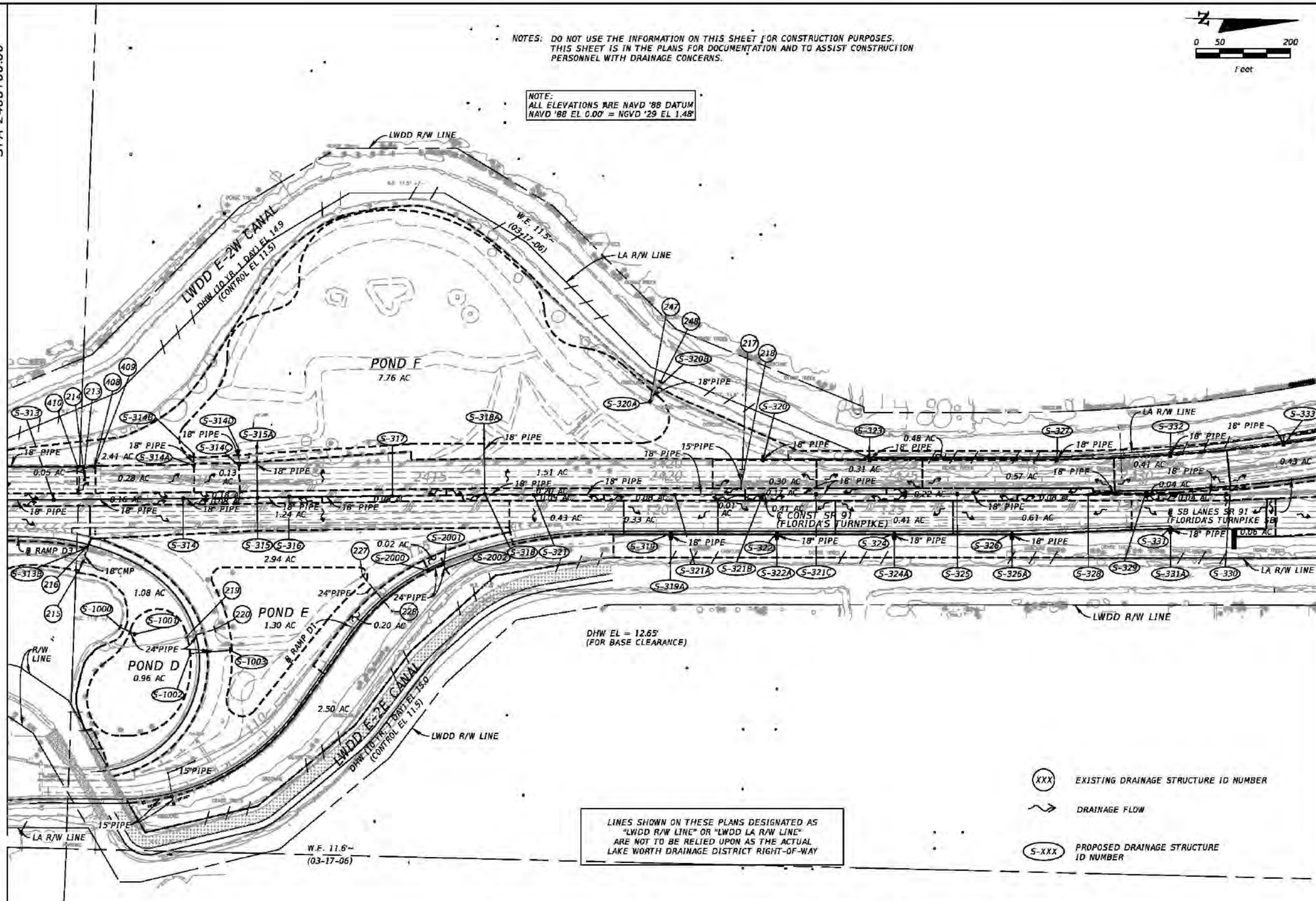
NOTE:
ALL ELEVATIONS ARE NAVD '88 DATUM
NAVD '88 EL 0.00' = NGVD '29 EL 1.48'



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DRAINAGE MAP

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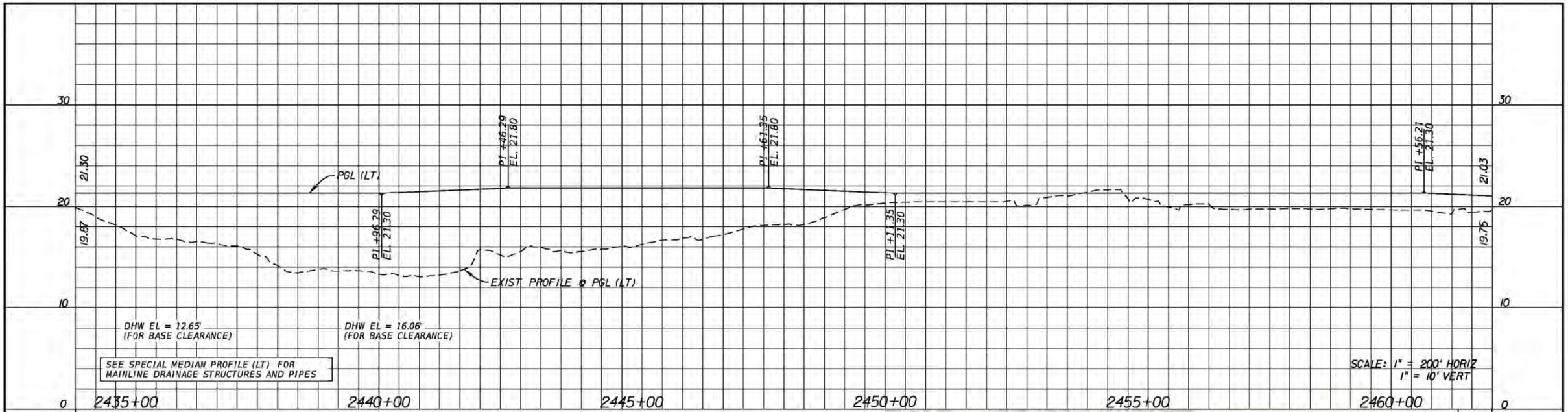

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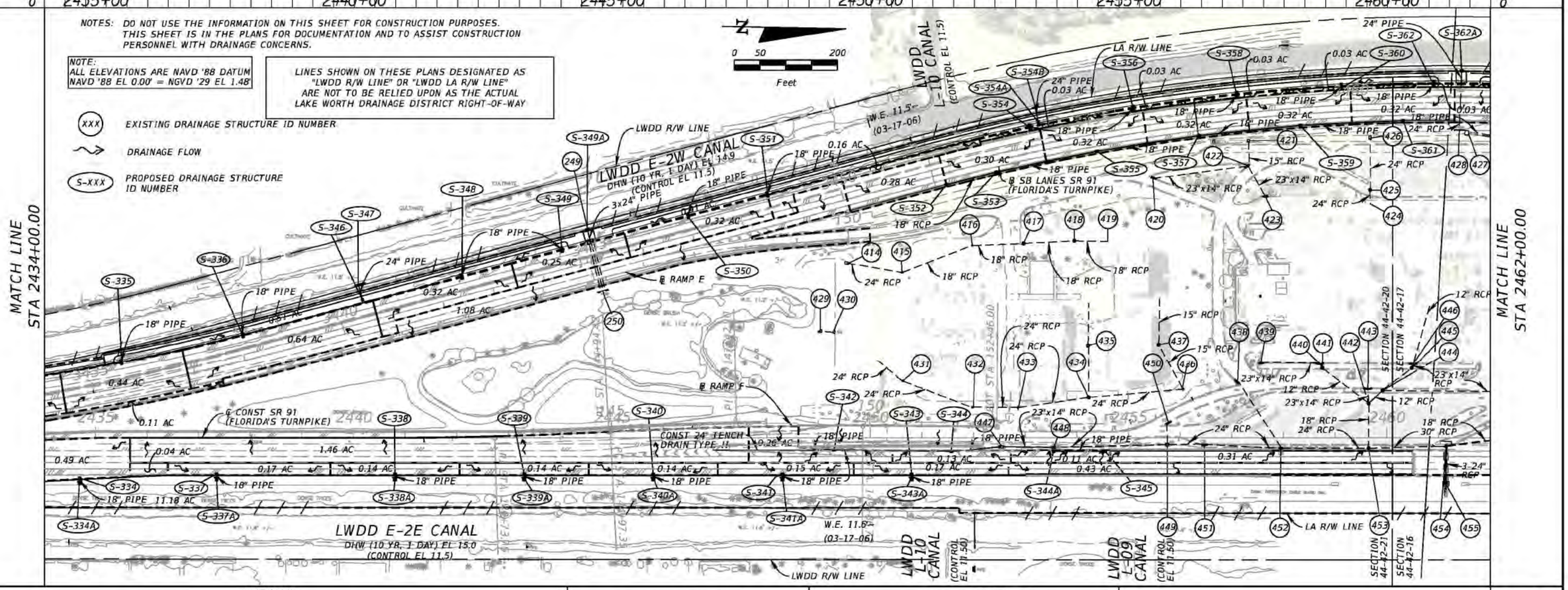
(XXX) EXISTING DRAINAGE STRUCTURE ID NUMBER

DRAINAGE FLOW

(S-XXX) PROPOSED DRAINAGE STRUCTURE ID NUMBER



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DRAINAGE MAP

SHEET NO.
15

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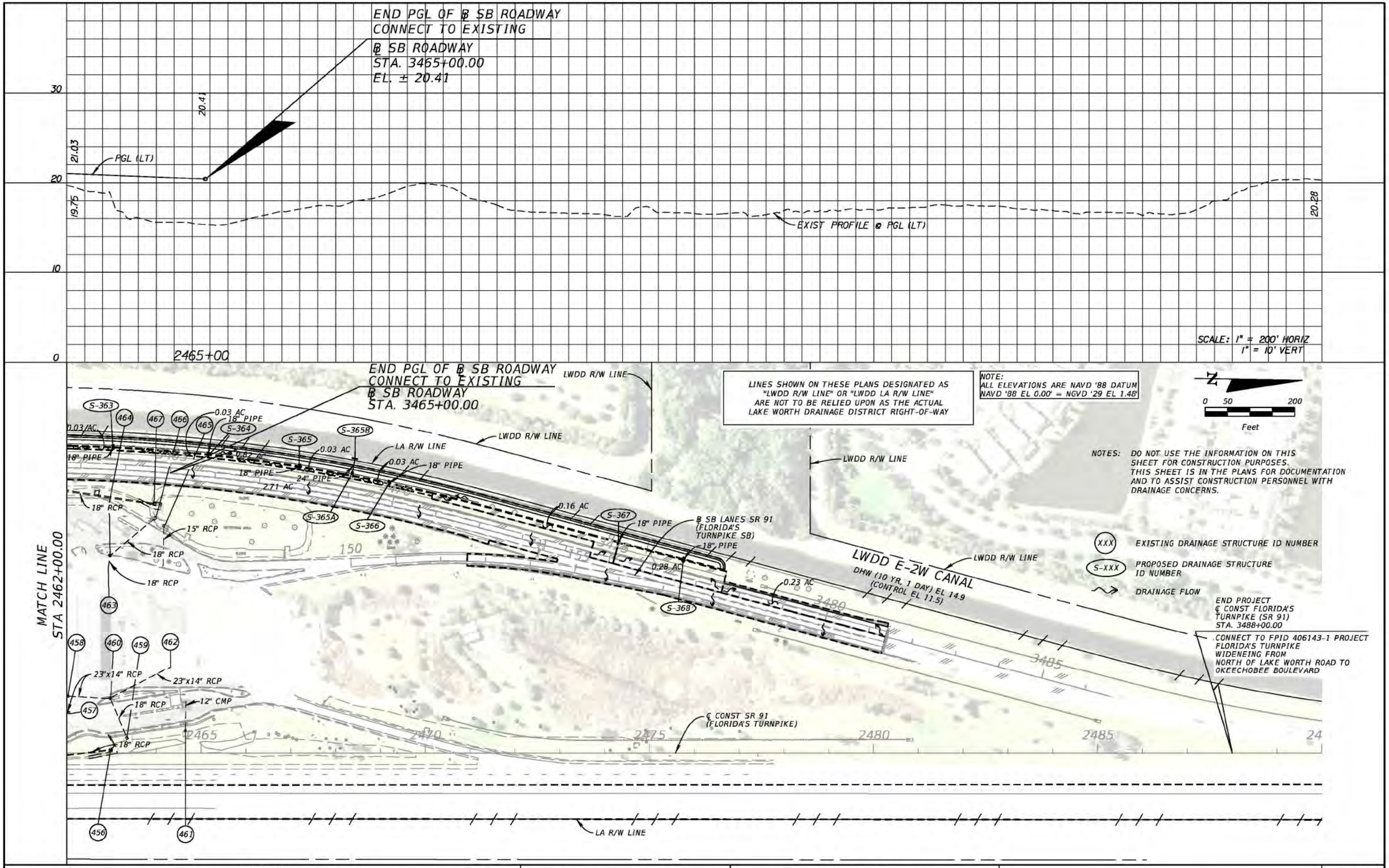

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DRAINAGE MAP

SHEET NO. 16

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(1) INLET -
GRATE EL = 42.08
E FL = 37.88 (12" RCP)

(2) INLET -
GRATE EL = 43.14
W FL = 37.74 (18' RCP)
N FL = 37.74 (18" RCP)

(3) INLET -
GRATE EL = 42.98
N FL = 38.83 (18" RCP)

(4) INLET -
GRATE EL = 40.42
E FL = 36.42 (12" RCP)

(5) INLET -
GRATE EL = 41.37
W FL = 36.10 (18" RCP)
N FL = 36.10 (18" RCP)
S FL = 36.10 (18" RCP)

(6) INLET -
GRATE EL = 41.48
N FL = 37.33 (18" PIPI)
S FL = 37.40 (18" RCP)

(7) INLET -
GRATE EL = 37.53
E FL = 33.58 (12" RCP)

(8) INLET -
GRATE EL = 38.62
W FL = 33.22 (18" RCP)
N FL = 33.22 (18" RCP)
S FL = 33.22 (18" RCP)

(9) INLET -
GRATE EL = 38.71
N FL = 34.76 (18" RCP)
S FL = 34.76 (18" RCP)

(10) INLET -
GRATE EL = 33.41
E FL = 29.51(12" RCP)

(11) INLET -
GRATE EL = 35.51
W FL = 29.16 (24" RCP)
N FL = 28.96 (24" RCP)
S FL = 28.96 (24" RCP)

(12) INLET -
GRATE EL = 32.38
N FL = 27.73 (24" RCP)
S FL = 27.73 (24" RCP)

(13) MH -
TOP EL = 31.90
N FL = 27.50 (18" RCP)
S FL = 27.53 (18" RCP)

(14) INLET -
GRATE EL = 29.73
N FL = 24.73 (24" RCP)
S FL = 24.73 (24" RCP)

(17) BWI
GRATE EL = 35.33
N FL = 31.48 (18" RCP)
S FL = 31.53 (18" RCP)

(18) JB -
TOP EL = 22.30 (UNDER PAVT)
N FL = 17.36 (18" RCP)
S FL = 17.46 (18" RCP)

(19) JB -
TOP EL. = 21.00 (UNDER PAVT)
S FL = 17.30 (18" RCP)
E FL = 17.30 (18" RCP)

(20) INLET -
GRATE EL = 22.68
W FL = 17.78 (24" RCP)
S FL = 17.78 (24" RCP)

(21) GUTTER INLET -
GRATE EL = 22.12
W FL = 17.20 (18" RCP)
E FL = 17.20 (24" RCP)
S FL = 17.20 (24" RCP)

(22) MES -
W FL = 17.00 (24" RCP)

(23) INLET -
GRATE EL = 22.69
E FL = 18.41(24" RCP)

(24) BWI -
GRATE EL = 25.10
N FL = 20.30 (24" RCP)

(25) INLET -
GRATE EL = 20.85
S FL = 13.77 (24" RCP)
N FL = 13.75 (18" RCP)

(26) DBI -
GRATE EL = 18.70
SLOT EL = 18.20
V-NOTCH EL = 16.00
E FL = 14.00 (24" RCP)

(27) EW -
W FL = 13.88 (24" RCP)

(28) MES -
N FL = 17.00 (18" RCP)

(29) MES -
S FL = 17.00 (18" RCP)

(30) EW WEIR -
NOTCH FL = 15.24

(31) INLET -
GRATE EL = 15.91
E FL = 12.33 (18" PIPE)

(32) MH -
TOP EL 19.05
S FL = 14.62 (18" RCP)
E FL = 13.13 (24" RCP)

(33) DBI -
GRATE EL = 18.70
SLOT EL = 18.20
E FL = 14.00 (24" RCP)

(34) EW -
W FL = 13.88 (24" RCP)

(35) U TYPE EW W/BAFFLES -
E FL = 13.88 (18" PIPE)

(36) GUTTER INLET -
GRATE EL = 21.71
W FL = 17.40 (18" PIPE)
N FL = 17.40 (18" PIPE)

(37) BWI -
GRATE EL = 22.18
S FL = 17.50 (18" PIPE)
N FL = 17.50 (18" PIPE)

(38) BWI -
GRATE EL = 22.58
S FL = 17.90 (18" PIPE)
N FL = 17.90 (18" PIPE)

(39) GUTTER INLET -
GRATE EL = 22.34
E FL = 18.10 (18" PIPE)
N FL = 18.10 (18" PIPE)

(40) MES
W FL = 18.00 (18" PIPE)

(41) GUTTER INLET -
GRATE EL = 22.45
N FL = 18.20 (18" PIPE)
S FL = 18.20 (18" PIPE)

(42) OVERFLOW WEIR
SPILLWAY EL = 19.30

(43) BWI -
GRATE EL = 23.20
S FL = 18.90 (18" PIPE)

(44) GUTTER INLET -
GRATE EL = 23.04
S FL = 18.90 (18" PIPE)

(45) BWI -
GRATE EL = 23.24
N FL = 18.90 (18" PIPE)

(46) GUTTER INLET -
GRATE EL = 22.99
N FL = 18.90 (18" PIPE)

(47) BWI -
GRATE EL = 22.70
N FL = 17.90 (18" PIPE)
S FL = 17.90 (18" PIPE)

(48) GUTTER INLET -
GRATE EL = 22.53
N FL = 18.30 (18" PIPE)
S FL = 18.30 (18" PIPE)

(49) GUTTER INLET -
GRATE EL = 22.42
E FL = 18.10 (18" PIPE)
S FL = 18.10 (18" PIPE)

(50) MES -
E FL = 8.00 (18" PIPE)

(51) DBI -
GRATE EL = 20.20
SLOT EL = 19.70
V-NOTCH EL 18.00
E FL = 14.00 (24" PIPE)

(52) EW -
W FL = 13.88 (24" PIPE)

(53) U-TYPE EW W/BAFFLES -
W FL = 17.33 (18" PIPE)

(54) GUTTER INLET -
GRATE EL = 22.21
W FL = 17.50 (18" PIPE)
S FL = 17.50 (18" PIPE)

(55) DBI -
GRATE EL = 19.20
SLOT EL = 18.70
V-NOTCH EL = 17.00
E FL = 14.00 (24" PIPE)

(56) EW -
W FL = 13.88 (24" PIPE)

(57) EW -
W FL = 10.89 ± (30" PIPE)

(58) DBI -
GRATE EL = 17.50
SLOT EL = 17.00
W FL = 10.89 (30" PIPE)

(59) OVERFLOW WEIR
SPILLWAY EL = 19.30

(60) MES -
S FL = 16.00 (18" PIPE)

(61) MES -
N FL = 16.00 (18" PIPE)

(62) DBI -
GRATE EL = 18.75
SLOT EL = 18.25
V-NOTCH EL = 16.00
E FL = 14.00 (24" PIPE)

(63) EW -
W FL = 13.88 (24" PIPE)

(64) DBI -
GRATE EL 17.50
SLOT EL = 17.00
V-NOTCH EL = 15.00
W FL = 10.94 (24" PIPE)

(65) EW -
W FL = 11.35 ± (24" PIPE)

(66) DBI -
GRATE EL = 18.75
SLOT EL = 18.25
E FL = 14.00 (24" PIPE)

(67) EW -
W FL = 13.88 (24" PIPE)

(68) DBI -
GRATE EL = 18.45
NOTCH EL = 16.62
W FL = 14.04 (18" PIPE)

(69) EW -
6" PVC FL 15.02
W FL = 13.42 (18" PIPE)

(70) DBI -
GRATE EL 18.75
SLOT EL = 18.25
E FL = 14.00 (24" PIPE)

(71) EW -
W FL = 13.88 (24" PIPE)

(72) DBI -
GRATE EL = 17.95
NOTCH EL = 16.25
W FL = 13.53 (15" PIPE)

(73) EW -
6" PVC FL = 14.45
E FL = 13.20 (15" PIPE)

(74) EW -
E FL 13.27 (15" PIPE)

(75) DBI
GRATE EL = 17.46
WEIR EL = 16.04
ORIFICE EL = 14.52
W FL = 13.52 (15" PIPE)

(76) EW -
E FL 13.82 (24" PIPE)

(76A) OUTFALL
72" CMP (E)
INV. ELEV. = 10.08'

(77) DBI
GRATE EL = 16.98
WEIR EL = 15.93
ORIFICE EL = 14.52
W FL = 13.92 (24" PIPE)

(77A) OUTFALL
72" CMP (W)
INV. ELEV. = 9.88'

(78) EW -
W FL = 12.76 (DBL 36" CMP)

(79) DBI -
GRATE EL = 16.64
WEIR EL = 15.85
ORIFICE EL = 14.52
W FL = 12.82 (DBL 36" PIPE)

(80) DBI - EW
GRATE EL = 17.42
FL = 14.39
EW FL = 13.88 (24" CMP)

(81) EW -
W FL = 13.88 (24" CMP)

(82) GUTTER INLET -
E FL = 18.34 (15" CMP)

(83) MES -
W FL = 18.0 (15" CMP)

EXISTING DRAINAGE STRUCTURES
DATA SHEET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

DRAINAGE MAP

SHEET NO.
17

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(84) MES –
S FL = 18.0 (15" CMP)

(85) MH –
W FL = 15.50 (15" CMP)
E FL = 15.50 (15" CMP)

(86) MES –
FL = 15.38 (15" CMP)

(87) CB –
W FL (4", 10" PVC)
S FL (15" PVC)

(88) MES –
E FL = 17.09 (8" PVC)

(89) MES –
E FL = 17.19 (6" PVC)

(90) HW –
E FL (15" CMP)

(91) CB –
W FL (15" CMP)

(92) MES –
E FL = 16.96 (8" PVC)

(93) MH –
TOP EL = 19.99
N FL EL = 17.24 (15" CMP)

(94) MES –
S FL = 17.1 (15" CMP)

(95) MH –
N FL = 17.24 (15" CMP)

(96) MH –
N FL = 16.90 (15" CMP)

(97) MES
S FL = 16.52 (15" CMP)

(98) CB –
E FL = 14.66 (24" CMP)

(99) HW –
W FL = 13.36 (24" CMP)

(100) MH –
E FL = 12.66 (36" RCP)

(100A) OUTFALL
72" CMP (W)
INV. ELEV. = 10.38'

(101) CB –
W FL = 12.81 (36" RCP)

(101A) OUTFALL
72" CMP (E)
INV. ELEV. = 9.70'

(102) HW –
E FL = 13.09 (24" RCP)

(103) CB –
W FL = 13.85 (24" RCP)

(104) CB –
E FL = 13.16 (18" RCP)

(105) CB –
W FL = 13.57 (18" RCP)

(106) HW –
E FL = 12.65 (18" RCP)

(107) CB –
W FL = 13.48 (18" RCP)

(108) HW –
E FL = 12.92 (18" RCP)

(109) CB –
W FL = 14.08 (18" RCP)

(110) HW –
E FL = 12.66 (36" PIPE)

(110A) OUTFALL
36" CMP (E)
INV. ELEV. = 13.55'

(110B) OUTFALL
36" CMP (W)
INV. ELEV. = 13.01'

(110C) STRAIGHT ENDWALL
72" RCP (E)
INV. ELEV. = 10.23'

(110D) STRAIGHT ENDWALL
72" RCP (W)
INV. ELEV. = 10.55'

(110E) STRAIGHT ENDWALL
60" RCP (W)
INV. ELEV. = 8.85'

(111) HW –
E FL = 10.71 (30" PIPE)

(111A) STRAIGHT ENDWALL
60" RCP (W)
INV. ELEV. = 8.87'

(112) CB –
W FL = 11.57 (30" PIPE)

(113) HW –
E FL = 10.63 (30" PIPE)

(114) CB –
W FL = 11.07 (30" PIPE)

(115) HW –
E FL = 13.92 (30" PIPE)

(116) CB –
W FL = 14.54 (30" PIPE)

(117) CB –
E FL = 9.91 (24" PIPE)

(118) END PIPE –
W FL = 9.59 (24" PIPE)

(119) HW –
E FL = 17.53 (18" PIPE)

(120) CB –
W FL = 17.61 (18" PIPE)
N FL = 17.63 (18" PIPE)

(121) CB –
N FL = 17.41 (18" PIPE)
E FL = 17.62 (18" PIPE)

(122) HD –
W FL = 17.39 (18" PIPE)

(123) CB –
N FL = 19.22 (18" RCP)
S FL = 19.20 (18" RCP)

(124) CB –
N FL = 19.33 (18" RCP)
S FL = 19.34 (18" RCP)

(125) CB –
N FL = 23.11 (18" RCP)
S FL = 20.89 (18" RCP)

(126) CB –
N FL = 23.12 (18" RCP)
S FL = 20.78 (18" RCP)

(127) CB –
N FL = 27.92 (18" RCP)
S FL = 26.36 (18" RCP)

(128) CB –
N FL = 26.45 (18" RCP)
S FL = 26.57 (18" RCP)

(129) CB –
N FL = 30.81 (18" RCP)
S FL = 30.77 (18" RCP)

(130) CB –
N FL = 31.02 (18" RCP)
S FL = 30.93 (18" RCP)

(131) CB –
GRATE EL = 34.17
N FL = 34.31 (18" RCP)
S FL = 34.12 (18" RCP)

(132) CB –
N FL = 36.62 (18" RCP)
S FL = 36.51 (18" RCP)

(133) CB –
N FL = 36.62 (18" RCP)
S FL = 36.51 (18" RCP)

(134) CB –
N FL = 36.39 (18" RCP)
S FL = 36.35 (18" RCP)

(135) CB –
S FL = 36.16 (18" RCP)

(136) CB –
S FL = 39.41 (18" RCP)

(137) CB –
N FL = 39.57 (18" RCP)

(138) CB –
N FL = 39.62 (18" RCP)

(139) CB –
N FL = 37.74 (18" RCP)
S FL = 35.52 (18" RCP)

(140) CB –
N FL = 36.18 (18" RCP)
S FL = 36.16 (18" RCP)

(141) CB –
N FL = 33.03 (18" RCP)
S FL = 33.08 (18" RCP)

(142) CB –
N FL = 35.18 (18" RCP)
S FL = 33.23 (18" RCP)

(143) CB –
N FL = 30.03 (18" RCP)
S FL = 30.13 (18" RCP)

(144) CB –
N FL = 30.06 (18" RCP)
S FL = 30.27 (18" RCP)

(145) CB –
N FL = 26.97 (18" RCP)
S FL = 27.01 (18" RCP)

(146) CB –
N FL = 27.04 (18" RCP)
S FL = 26.99 (18" RCP)

(147) CB –
N FL = 20.39 (18" RCP)
S FL = 20.43 (18" RCP)

(148) CB –
N FL = 20.54 (18" PIPE)
S FL = 20.63 (18" PIPE)

(149) CB –
N FL = 19.50 (18" RCP)
S FL = 19.59 (18" RCP)

(149A) STRAIGHT ENDWALL
24" CMP (W)
INV. ELEV. = 13.52'

(149B) STRAIGHT ENDWALL
24" RCP (E)
INV. ELEV. = 11.13'
INV. BURRIED, LEADS TO
A BURRIED CATCH BASIN

(149C) STRAIGHT ENDWALL
42" CMP (W)
INV. ELEV. = 10.67'
42" CMP (W)
INV. ELEV. = 10.92'

(150) CB –
N FL = 19.59 (18" RCP)
S FL = 19.67 (18" RCP)

(151) HW –
E FL = 16.87 (18" RCP)

(152) CB –
S FL = 17.59 (18" RCP)
W FL = 17.53 (18" RCP)

(153) CB –
E FL = 17.67 (18" RCP)
S FL = 17.75 (18" RCP)

(154) HW –
W FL = 17.53 (18" RCP)

(155) HW –
E FL = 13.96 (24" RCP)

(156) CB –
W FL = 14.49 (24" RCP)

(157) CB –
E FL = 15.33 (24" RCP)

(158) HW –
W FL = 14.42 (24" RCP)

(159) HW –
E FL = 10.33 (24" RCP)

(160) CB –
W FL = 11.62 (24" RCP)

(160A) CATCH BASIN
RIM ELEV. = 16.97'
24" PVC (W)
INV. ELEV. = 13.08'

(160B) STRAIGHT ENDWALL
24" PVC (E)
INV. ELEV. = 13.06'

(160C) CATCH BASIN
RIM ELEV. = 19.65'
18" PVC (N)
INV. ELEV. = 15.66'
18" RCP (W)
INV. ELEV. = 15.60'

(160D) FLARED END SECTION
18" RCP (E)
INV. ELEV. = 15.49'

(160E) CATCH BASIN
RIM ELEV. = 19.24'
18" PVC (S)
INV. ELEV. = 15.83'

EXISTING DRAINAGE STRUCTURES
DATA SHEET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

DRAINAGE MAP

SHEET NO.
18

(161) NOT USED

(162) NOT USED

(163) NOT USED

(164) NOT USED

(165) CB -
E FL = 6.88 (UNABLE TO OBTAIN PIPE SIZE)

(166) HDW -
(UNABLE TO OBTAIN FLOW OR PIPE SIZE)

(167) HDW -
E FL = 15.98 (24" RCP)

(168) CB -
W FL = 14.05 (24" RCP)
E FL = 14.08 (18" RCP)

(169) CB -
W FL = 14.14 (18" RCP)
E FL = 14.01 (24" RCP)

(170) HDW -
W FL = 13.98 (24" RCP)

(171) CB -
E FL = 28.25 (18" RCP)

(172) CB -
E FL = 27.88 (18" CMP)
W FL = 27.86 (18" CMP)

(173) PIPE END -
W FL = 13.85 (18" CMP)

(174) CB -
E FL = 33.47 (18" RCP)

(175) CB -
W FL = 33.34 (18" CMP)
E FL = 33.21 (18" CMP)

(176) PIPE END -
W FL = 14.02 (18" CMP)

(177) CB -
E FL = 36.82 (18" RCP)

(178) CB -
W FL = 36.75 (18" CMP)
E FL = 36.48 (18" CMP)

(179) PIPE END -
W FL = 14.08 (18" CMP)

(180) CB -
E FL = 36.11 (18" CMP)

(181) PIPE END -
W FL = 13.91 (18" PIPE)

(182) CB -
S FL = 14.52 (18" CMP)

(183) CB -
E FL = 12.43 (18" RCP)

(184) HDW -
WATER GATE
S FL = 7.54 (78" RCP)

(185) HDW -
N FL = 5.38 (78" RCP)

(186) DBI -
GRATE EL = 7.77
W FL = 10.17 (18" RCP)

(187) CB -
E FL = 35.96 (18" PIPE)

(188) CB -
W FL = 35.43 (18" CMP)
E FL = 34.57 (18" CMP)

(189) CMP END -
W FL = 14.22 (18" CMP)

(190) DBI -
E FL = 14.11 (18" CMP)

(191) CB -
W FL = 31.87 (18" CMP)

(192) CB -
E FL = 31.67 (18" CMP)

(193) HDW -
W FL = 14.12 (18" CMP)

(194) CB -
(PIPE SIZE UNKNOWN)
E FL = 5.63

(195) HDW -
E FL = 9.36 (30" RCP)

(196) CB -
W FL = 24.41 (18" CMP)

(197) HDW -
E FL = 14.24 (18" CMP)

(198) CB -
E FL = 24.38 (18" CMP)

(199) HDW -
W FL = 13.93 (18" CMP)

(200) CB -
N FL = 9.66 (24" RCP)
E FL = 9.90 (24" RCP)

(201) CB -
W FL = 9.60 (24" RCP)
S FL = 9.70 (24" RCP)

(202) CB -
E FL = 9.02 (24" RCP)
W FL = 8.98 (24" RCP)

(203) CB -
N FL = 14.73 (18" RCP)

(204) MH -
TOP EL 18.08
S FL = 14.66 (15" RCP)

(205) HDW -
W FL = 11.78 (60" RCP)

(206) HDW -
E FL = 12.10 (60" RCP)

(207) HDW -
W FL = 11.15 (60" RCP)

(208) HDW -
W FL = 11.26 (60" RCP)

(209) CB -
N FL = 9.24 (18" RCP)
W FL = 9.81 (18" RCP)

(210) CB -
N FL = 13.83 (18" RCP)

(211) HDW -
S FL =14.81 (18" RCP)

(211A) CB -
N FL = 14.16 (18" RCP)
GRATE EL = 16.30
EW EL = 14.34

(212) MH -
S FL = 14.67 (18" RCP)
N FL = 14.57 (18" RCP)

(213) HDW -
E FL = 14.18 (18" PIPE)

(214) CB -
W FL = 19.09 (18" PIPE)

(215) HDW -
W FL = 14.59 (18" PIPE)

(216) CB -
E FL = 18.09 (18" PIPE)

(217) HDW -
E FL = 15.29 (15" PIPE)

(218) CB -
E FL = 16.20 (15" PIPE)

(219) HDW -
N FL = 13.81 (24" PIPE)

(220) INLET -
S FL = 14.34 (24" PIPE)

(221) CB -
(STRUCTURE INACCESSIBLE)
BOTTOM EL = 16.61

(222) CB -
(STRUCTURE INACCESSIBLE)
BOTTOM EL = 16.18

(223) CB -
N FL = 15.65 (15" PIPE)

(224) CB -
S FL = 15.56 (15" PIPE)
E FL = 15.66 (15" PIPE)

(225) FLUME -
W FL = 15.08 (15" PIPE)

(226) CB-
STRUCTURE INACCESSIBLE
BOTTOM EL = 16.87

(227) HDW -
E FL = 15.77 (24" PIPE)

(228) HDW -
W FL = 15.00 (24" PIPE)

(229) NOT USED

(230) NOT USED

(231) NOT USED

(232) NOT USED

(233) NOT USED

(234) NOT USED

(235) NOT USED

(236) NOT USED

(237) NOT USED

(238) NOT USED

(239) NOT USED

(240) NOT USED

(241) NOT USED

(242) NOT USED

(243) NOT USED

(244) NOT USED

(245) NOT USED

(246) NOT USED

(247) CB -
W FL = 10.80 (18" PIPE)

(248) HDW -
E FL = 8.55 (18" PIPE)

(249) FLUME -
E FL = 15.15 (24" RCP)

(250) HDW -
W FL = 14.57 (24" RCP)

(300) CATCH BASIN
RIM ELEV. = 18.32'
24" PVC (N)
INV. ELEV. = 13.50'

(301) CATCH BASIN
RIM ELEV. = 18.37'
24" PVC (N)
INV. ELEV. = 13.05'
24" PVC (S)
INV. ELEV. = 12.94'

(302) CATCH BASIN
RIM ELEV. = 18.33'
30" PVC (N)
INV. ELEV. = 12.49'
24" PVC (S)
INV. ELEV. = 12.98'

(303) CATCH BASIN
RIM ELEV. = 18.15'
30" PVC (N)
INV. ELEV. = 12.30'
30" PVC (S)
INV. ELEV. = 12.37'

(304) CATCH BASIN
RIM ELEV. = 18.45'
30" PVC (N)
INV. ELEV. = 11.98'
30" PVC (S)
INV. ELEV. = 12.01'

(305) CATCH BASIN
RIM ELEV. = 18.38'
36" PVC (N)
INV. ELEV. = 10.61'
30" PVC (S)
INV. ELEV. = 11.16'

(306) CATCH BASIN
RIM ELEV. = 18.47'
36" PVC (N)
INV. ELEV. = 10.39'
36" PVC (S)
INV. ELEV. = 10.37'

(307) MANHOLE
RIM ELEV. = 18.72'
36" RCP (N)
INV. ELEV. = 10.04'
36" PVC (S)
INV. ELEV. = 10.18'

(308) CATCH BASIN
RIM ELEV. = 18.06'
36" RCP (N)
INV. ELEV. = 9.87'
36" RCP (S)
INV. ELEV. = 9.91'

(309) CATCH BASIN
RIM ELEV. = 17.91'
36" RCP (N)
INV. ELEV. = 9.75'
36" RCP (S)
INV. ELEV. = 9.78'

(310) CATCH BASIN
RIM ELEV. = 17.82
36" RCP (N)
INV. ELEV. = 9.70'
36" RCP (S)
INV. ELEV. = 9.73'

(311) CATCH BASIN
RIM ELEV. = 17.58'
48" RCP (N)
INV. ELEV. = 9.68'
36" RCP (S)
INV. ELEV. = 9.69'

(312) CATCH BASIN
RIM ELEV. = 18.70'
48" RCP (N)
INV. ELEV. = 9.63'
48" RCP (SW)
INV. ELEV. = 9.63'

(313) CATCH BASIN
RIM ELEV. = 18.67'
48" RCP (N)
INV. ELEV. = 9.26'
48" RCP (S)
INV. ELEV. = 9.77'

(314) OUTFALL
10" PVC (W)
INV. ELEV. = 15.05'

(315) OUTFALL
10" PVC (E)
INV. ELEV. = 15.37'

(316) OUTFALL
72" CMP (W)
INV. ELEV. = 9.77'

(317) OUTFALL
72" CMP (E)
INV. ELEV. = 9.58'

(318) CATCH BASIN
RIM ELEV. = 19.87'
18" RCP (NE)
INV. ELEV. = 15.88'

(319) FLARED END SECTION
18" RCP (SW)
INV. ELEV. = 15.48'

(320) OUTFALL
24" CMP (NE)
INV. ELEV. = 12.55'

(321) OUTFALL
24" CMP (SW)
INV. ELEV. = 12.41'

EXISTING DRAINAGE STRUCTURES DATA SHEET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

DRAINAGE MAP

SHEET NO.
19

(322) STRAIGHT ENDWALL
24" RCP (NE)
INV. ELEV. = 10.75'

(323) CATCH BASIN
RIM ELEV. = 16.90'
24" RCP
INV. ELEV. = 10.94'

(324) OUTFALL
24" CMP (NE)
INV. ELEV. = 15.83'

(325) OUTFALL
24" CMP (SW)
INV. ELEV. = 12.79'

(326) CATCH BASIN
RIM ELEV. = 22.24'
18" RCP (NE)
INV. ELEV. = 17.70'

(327) CATCH BASIN
RIM ELEV. = 22.11'
18" RCP (SW)
INV. ELEV. = 17.56'
18" RCP (NE)
INV. ELEV. = 11.83'

(328) STRAIGHT ENDWALL
18" RCP
INV. ELEV. = 11.30'

(329) OUTFALL
24" CMP (E)
INV. ELEV. = 12.39'

(330) OUTFALL
24" CMP (W)
INV. ELEV. = 12.41'

(331) STA 190+19.26 (26.57' RT)
@ RAMP C2
CONST MEDIAN BARRIER WALL INLET
INDEX NO 217 TYPE II
GRATE EL 22.48
FL 17.50 (LT)

(332) STA 177+48.81 (10.98' LT)
CONST BARRIER WALL INLET
INDEX NO 219
GRATE EL 21.59
FL 12.00 (LT)
FL 17.00 (RT)

(333) STA 177+58.71 (51.09' LT)
CONST STRAIGHT CONC ENDWALL
INDEX NO 250
FL 11.30

(334) STA 193+71.00 (53.42' LT)
CONST BARRIER WALL INLET (C&G)
INDEX NO'S 200, 201, 219 AND 410
GRATE EL 20.49
FL 12.20 (AH), FL 11.70 (RT)
CONNECT TRENCH DRAIN TYPE II
INDEX NO 206
DESIGN FLOW Q = 1.53 CFS

(335) STA 193+74.00 (59.92' RT)
CONST INLET TYPE P-3
INDEX NO'S 200 AND 210
EOP EL 20.05
FL 11.50 (LT, RT), FL 12.00 (AH)
CONNECT TRENCH DRAIN TYPE II
INDEX NO 206
DESIGN FLOW Q = 1.80 CFS

(336) STA 193+50.00 (102.00' RT)
CONST DBI TYPE G
INDEX NO'S 200, 201 AND 233
GRATE EL 19.22
FL 11.40 (LT)
FL 10.90 (RT)

(337) STA 193+50.00 (170.40' RT)
CONST STRAIGHT CONCRETE ENDWALL
INDEX NO 250
FL 9.50

(338) CATCH BASIN
RIM ELEV. = 15.55'
48" RCP (NW)
INV. ELEV. = 8.53'
48" RCP (S)
INV. ELEV. = 8.77'

(339) STRAIGHT ENDWALL
48" RCP (SE)
INV. ELEV. = 8.40'

(340) CATCH BASIN
RIM ELEV. = 23.29'
18" RCP (N)
INV. ELEV. = 14.27'

(341) STRAIGHT ENDWALL
18" RCP (S)
INV. ELEV. = 11.54'

(342) STRAIGHT ENDWALL
24" RCP (E)
INV. ELEV. = 10.06'

(343) CATCH BASIN
RIM ELEV. = 30.06'
18" PVC (N)
INV. ELEV. = 23.00'
18" PVC (SE)
INV. ELEV. = 23.02'
24" RCP (W)
INV. ELEV. = 15.87'

(344) CATCH BASIN
RIM ELEV. = 37.05'
18" PVC (N)
INV. ELEV. = 32.68'
18" PVC (E)
INV. ELEV. = 32.64'
18" PVC (S)
INV. ELEV. = 32.61'

(345) CATCH BASIN
RIM ELEV. = 40.40'
18" PVC (N)
INV. ELEV. = 35.74'
18" PVC (E)
INV. ELEV. = 35.91'
18" PVC (S)
INV. ELEV. = 35.86'

(346) CATCH BASIN
RIM ELEV. = 41.74'
18" PVC (S)
INV. ELEV. = 36.98'

(347) MEDIAN INLET
INFLOW RIM ELEV. = 18.87'
MANHOLE RIM ELEV. = 19.54'
18" RCP (E)
INV. ELEV. = 15.22'
18" RCP (W)
INV. ELEV. = 15.20'

(348) MEDIAN INLET
INFLOW RIM ELEV. =
18.84'
MANHOLE RIM ELEV.
= 19.50'
18" RCP (W)
INV. ELEV. = 15.56'

(349) CURB INLET
RIM ELEV. = 17.96'
30" RCP (NW)
INV. ELEV. = 13.40'
30" RCP (E)
INV. ELEV. = 13.95'

(350) CATCH BASIN
RIM ELEV. = 41.28'
18" PVC (N)
INV. ELEV. = 36.71'

(351) CATCH BASIN
RIM ELEV. = 30.38'
18" PVC (N)
INV. ELEV. = 25.89'
18" PVC (S)
INV. ELEV. = 25.95'

(352) NOT USED

(353) NOT USED

(354) NOT USED

(355) NOT USED

(356) NOT USED

(357) NOT USED

(358) NOT USED

(359) NOT USED

(360) MEDIAN INLET
18" RCP (E)
INV. ELEV. = 14.95'

(361) STA 108+20.00 (51.25' LT)
CONST INLET TYPE P-5
INDEX NO'S 200 AND 211
EOP EL 18.55
FL 14.45 (BK)

(362) STA 107+21.00 (51.25' LT)
CONST INLET TYPE P-6
INDEX NO'S 200 AND 211
EOP EL 18.32
FL 14.30 (BK, AH)

(363) STA 106+21.39 (51.00' LT)
CONST INLET TYPE P-9
INDEX NO'S 200 AND 214
EOP EL 18.74
FL 14.60 (BK, AH)

(364) STA 105+06.87 (47.71' LT)
CONST INLET TYPE P-5
INDEX NO'S 200 AND 211
EOP EL 19.31
FL 14.70 (BK, AH)

(365) STA 104+61.88 (45.44' LT)
CONST INLET TYPE P-5
INDEX NO'S 200 AND 211
EOP EL 19.50
FL 14.80

(366) STA 108+05.00 (10.50' RT)
CONST MANHOLE TYPE P-8
INDEX NO'S 200 AND 201
RIM EL 19.36
FL 15.00 (BK, AH)
SEE NOTE 11
CONNECT 8" PVC PIPE
TO BOTTOM OUTLET
OF 12" TRENCH DRAIN
COST OF 8" PVC PIPE TO BE
INCLUDED WITH THE COST
OF TRENCH DRAIN

(367) STA 107+25.00 (10.50' RT)
CONST MANHOLE TYPE P-8
INDEX NO'S 200 AND 201
RIM EL 19.22
FL 14.80 (BK, AH)
SEE NOTE 11
CONNECT 8" PVC PIPE
TO BOTTOM OUTLET
OF 12" TRENCH DRAIN
COST OF 8" PVC PIPE TO BE
INCLUDED WITH THE COST
OF TRENCH DRAIN

(368) STA 106+43.10 (10.47' RT)
CONST MANHOLE TYPE P-8
INDEX NO'S 200 AND 201
RIM EL 18.97
FL 13.80 (AH)
FL 10.00 (LT, RT)
SEE NOTE 11

(369) STA 106+35.65 (60.07' RT)
CONST MANHOLE TYPE P-8 (PARTIAL)
INDEX NO'S 200 AND 201
RIM EL 18.73

(370) STA 106+25.79 (61.04' RT)
CONST MANHOLE TYPE P-8
INDEX NO'S 200 AND 201
RIM EL 18.77
FL 9.70 (BK, AH)
FL 11.60 (RT)

(371) NOT USED

(372) NOT USED

(373) STA 103+52.74 (170.00' RT)
CONST DBI TYPE D
INDEX NO'S 200, 201, 232
GRATE EL 16.26
FL 12.60 (LT)

(374) NOT USED

(375) STA 101+09.00 (64.75' RT)
CONST INLET TYPE J-5 ALT B (4'X9')
INDEX NO'S 200 AND 211
EOP EL 18.21
FL 10.18 (BK, AH)

(376) NOT USED

(377) NOT USED

(378) NOT USED

(379) NOT USED

(380) STA 101+90.00 (52.25' LT)
CONST INLET TYPE P-5
INDEX NO'S 200 AND 211
EOP EL 18.60
FL 14.50 (BK)

(381) STA 37+71.00 (16.25' LT)
@ DRIVEWAY 3
CONST INLET TYPE P-5
INDEX NO'S 200 AND 211
EOP EL 17.97
FL 13.50 (BK)

(382) STA 36+60.00 (68.57' RT)
@ DRIVEWAY 3
CONST STRAIGHT CONC ENDWALL
INDEX NO 250
FL 12.30

(383) STA 36+00.00 (46.00' LT)
@ DRIVEWAY 3
CONST DBI INLET TYPE D
INDEX NO'S 200 AND 232
GRATE EL 15.50
FL 11.50 (BK)

(384) STA 36+00.00 (55.00' RT)
CONST STRAIGHT CONCRETE ENDWALL
INDEX NO 250
FL 11.40

(385) STA 194+84.93 (65.47' RT)
CONST INLET TYPE P-3
INDEX NO'S 200 AND 210
EOP EL 18.94
FL 12.20 (BK, AH)

(386) STA 195+54.93 (68.97' RT)
CONST INLET TYPE P-3
INDEX NOS 200 AND 210
EOP EL 18.38
FL 12.40 (BK, AH)

(387) STA 196+24.92 (72.47' RT)
CONST INLET TYPE P-3
INDEX NO'S 200 AND 210
EOP EL 17.82
FL 12.60 (BK, AH)

(388) STA 196+86.10 (72.50' RT)
CONST INLET TYPE P-3
INDEX NO'S 200 AND 210
EOP EL 17.39
FL 12.80 (BK, AH)

(389) STA 197+41.80 (72.5' RT)
CONST INLET TYPE P-4
EOP EL 17.21
INDEX NO'S 200 AND 210
FL 13.00 (BK)

(390) BOX CULVERT

(391) BOX CULVERT

(392) BOX CULVERT

(393) STA 198+21.28 (88.38' RT)
CONST INLET TYPE P-9
EOP EL 17.91
INDEX NO'S 200 AND 214
FL 11.90 (LT, AH)

(394) STA 198+21.28 (44.77' RT)
CONST INLET TYPE P-9
EOP EL 18.37
INDEX NO'S 200 AND 214
FL 12.00 (RT)

(395) STA 106+25.79 (67.17' RT)
CONST INLET TYPE P-9
INDEX NO'S 200 AND 214
EOP EL 18.74
FL 11.80 (LT, RT)

(396) STA 194+69.80 (50.70' LT)
CONST BARRIER WALL INLET (C&G)
INDEX NO'S 200, 201, 219 AND 410
GRATE EL 19.34
FL 12.40 (BK, AH)

(397) STA 195+45.00 (50.42' LT)
CONST BARRIER WALL INLET (C&G)
INDEX NO'S 200, 201, 219 AND 410
GRATE EL 18.46
FL 12.60 (BK, AH)

(398) STA 196+86.10 (48.87' LT)
CONST BARRIER WALL INLET
GRATE EL 17.41
INDEX NO'S 200, 201, AND 218
FL 12.90 (BK, AH)

(399) STA 197+41.80 (48.87' LT)
CONST BARRIER WALL INLET
INDEX NO 200, 201 AND 218
GRATE EL 17.23
FL 13.10 (BK)

(400) BOX CULVERT

(401) STA 104+03.41 (63.40' RT)
CONST MH TYPE P-8
INDEX NO 200, 201
RIM EL 19.42
FL 15.00 (RT)
FL 9.67± (BK, AH)

EXISTING DRAINAGE STRUCTURES
DATA SHEET

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE MAP

SHEET NO.
20

402 STA 104+06.00 (75.42' RT)
CONST INLET TYPE P-1
INDEX NO'S 200 AND 210
EOP EL 19.34
FL 15.20 (LT)

403 STA 96+75.00 (60.25' RT)
CONST INLET TYPE J-5 ALT B (4'X7')
INDEX NO'S 200 AND 211
EOP EL 18.56
FL 8.91 (BK, AH)
SEE NOTE 11

404 STA 100+26.16 (51.00' LT)
CONST INLET TYPE P-6 (PARTIAL)
EXISTING BOX TO REMAIN
INDEX NO'S 200 AND 211
EOP EL 18.10
FL 14.20 (AH)
FL 12.54± (RT)
CORE HOLE IN EAST FACE OF
EXIST STRUCTURE.
COST TO BE INCLUDED IN THE
PRICE OF THE STRUCTURE.

405 NOT USED

406 STA 100+26.16 (59' RT)
CONST INLET TYPE J-6 (PARTIAL)
INDEX NO'S 200 AND 211
EOP EL 18.10
FL 9.06± (BK)
FL 10.39± (LT)
FL 10.38± (AH)
SEE NOTE 11

407 STA 1401+50.00 (83.88' LT)
CONST BARRIER WALL INLET
INDEX NO'S 200, 201 AND 218
GRATE EL 36.72
FL 32.20 (BK, AH)

408 OUTFALL
18" RCP (E)
INV. ELEV. = 17.86'

409 CATCH BASIN
RIM ELEV. = 21.76'
18" RCP (W)
INV. ELEV. = 17.99'
18" PVC (S)
INV. ELEV. = 17.91'

410 CATCH BASIN
RIM ELEV. = 22.67'
18" PVC (N)
INV. ELEV. = 18.32'
18" PVC (S)
INV. ELEV. = 18.34'

411 NOT USED

412 NOT USED

413 NOT USED

414 MITERED END SECTION
24" RCP (N)
INV. ELEV. = 15.49'

415 CATCH BASIN
RIM ELEV. = 20.25'
18" RCP (N)
INV. ELEV. = 16.34'
24" RCP (S)
INV. ELEV. = 16.28'

416 CATCH BASIN
RIM ELEV. = 20.48'
18" RCP (N)
INV. ELEV. = 16.55'
18" RCP (S)
INV. ELEV. = 16.47'

417 MANHOLE
RIM ELEV. = 21.15'
18" RCP (N)
INV. ELEV. = 16.75'
18" RCP (S)
INV. ELEV. = 16.74'

418 MANHOLE
RIM ELEV. = 22.31'
18" RCP (S)
INV. ELEV. = 16.99'
18" RCP (N)
INV. ELEV. = 16.92'

419 APPROXIMATE
DIRECTION
TO OUTFALL

420 CURB INLET
RIM ELEV. = 19.54'
23" X 14" RCP (N)
INV. ELEV. = 16.66'

421 MITERED END SECTION
15" RCP (E)
INV. ELEV. = 16.07'

422 CURB INLET
RIM ELEV. = 19.61'
15" RCP (W)
INV. ELEV. = 16.70'
23"x14" ELLIPTICAL
RCP (S)
INV. ELEV. = 16.36'
23"x14" ELLIPTICAL
RCP (NE)
INV. ELEV. = 16.25'

423 CURB INLET
RIM ELEV. = 20.45'
23"x14" ELLIPTICAL
RCP (SW)
INV. ELEV. = 17.09'

424 CURB INLET
23"x14" ELLIPTICAL
RCP (W)
INV. ELEV. = 17.60'

425 MANHOLE
RIM ELEV. = 20.42'
24" RCP (W)
TOP OF BAFFLE
ELEV. = 18.72'
UNABLE TO OBTAIN
INV.
23"x14" ELLIPTICAL
RCP (E)
INV. ELEV. = 16.81'

426 MITERED END SECTION
24" RCP (E)
INV. ELEV. = 15.82'

427 MITERED END
SECTION
18" RCP (N)
INV. ELEV. = 14.75'
18" RCP (N)
INV. ELEV. = 14.76'

428 STRAIGHT ENDWALL
24" RCP (W)
INV. ELEV. = 14.70'

429 NO DATA AVAILABLE

430 NO DATA AVAILABLE

431 CATCH BASIN
RIM ELEV. = 20.20'
24" RCP (NE)
INV. ELEV. = 15.58'
24" RCP (SW)
INV. ELEV. = 15.56'

432 CATCH BASIN
RIM ELEV. = 20.03'
24" RCP (N)
INV. ELEV. = 15.78'
24" RCP (SW)
INV. ELEV. = 15.77'

433 CATCH BASIN
RIM ELEV. = 20.54'
24" RCP (S)
INV. ELEV. = 15.93'
24" RCP (N)
INV. ELEV. = 16.27'

434 MANHOLE
RIM ELEV. = 21.74'
24" RCP (S)
INV. ELEV. = 16.45'
24" RCP (N)
INV. ELEV. = 16.80'
15" RCP (W)
INV. ELEV. = 19.06'

435 YARD DRAIN
RIM ELEV. = 21.60'
15" RCP (E)
INV. ELEV. = 18.14'
15" HDPE (W)
INV. ELEV. = 18.66

436 CATCH BASIN
RIM ELEV. = 21.32'
15" RCP (SW)
INV. ELEV. = 17.86'
24" RCP (S)
INV. ELEV. = 16.95'

437 YARD DRAIN
RIM ELEV. = 22.31'
15" RCP (NE)
INV. ELEV. = 18.03'
15" HDPE (W)
INV. ELEV. = 18.64'

438 CURB INLET
RIM ELEV. = 20.62'
23"x14" ELLIPTICAL RCP (NE)
INV. ELEV. = 16.76'

439 CURB INLET
RIM ELEV. = 21.35'
23"X14" ELLIPTICAL RCP (N)
INV. ELEV. = 18.08'

440 CURB INLET
RIM ELEV. = 21.30'
23"X14" ELLIPTICAL RCP (NE)
INV. ELEV. = 18.13'
23"X14" ELLIPTICAL RCP (S)
INV. ELEV. = 17.99'

441 MANHOLE
RIM ELEV. = 21.74'
12" RCP (NE)
INV. ELEV. = 17.82'
23"X14" ELLIPTICAL
RCP (SW)
INV. ELEV. = 17.95'

442 MANHOLE
RIM ELEV. = 20.47'
19" X 30" RCP (E)
INV. ELEV. = 16.22'
12" RCP (SW)
INV. ELEV. = 17.07'
23"X14" ELLIPTICAL
RCP (W)
INV. ELEV. = 16.49'
12" RCP (NW)
INV. ELEV. = 16.42'

443 CURB INLET
RIM ELEV. = 20.78'
23"X14" ELLIPTICAL RCP (E)
INV. ELEV. = 17.42'

444 MANHOLE
RIM ELEV. = 21.38'
23"X14" ELLIPTICAL
RCP (N)
INV. ELEV. = 17.20'
12" RCP (NW)
INV. ELEV. = 17.12'
12" RCP (SE)
INV. ELEV. = 17.42'

445 MANHOLE
RIM ELEV. = 21.85'
12" RCP (SE)
INV. ELEV. = 18.36'
23"X14" ELLIPTICAL RCP (W)
INV. ELEV. = 18.32'

446 CURB INLET
RIM ELEV. = 21.35'
12" RCP (NW)
INV. ELEV. = 19.16'
23"X14" ELLIPTICAL RCP (E)
INV. ELEV. = 19.16'

447 CATCH BASIN
RIM ELEV. = 18.50'
23"x14" ELLIPTICAL
RCP (N)
INV. ELEV. = 15.02'

448 CATCH BASIN
RIM ELEV. = 18.34'
23"x14" ELLIPTICAL
RCP (S)
INV. ELEV. = 14.83'
23"x14" ELLIPTICAL
RCP (N)
INV. ELEV. = 14.82'

449 CATCH BASIN
RIM ELEV. = 17.88'
24" RCP (N)
INV. ELEV. = 14.40'
23"x14" ELLIPTICAL
RCP (W)
INV. ELEV. = 14.55'
23"x14" ELLIPTICAL
RCP (S)
INV. ELEV. = 14.43'

450 CURB INLET
RIM ELEV. = 19.67'
23"x14" ELLIPTICAL RCP (E)
INV. ELEV. = 16.08'

451 CURB INLET
RIM ELEV. = 18.71'
24" RCP (N)
INV. ELEV. = 14.46'
24" RCP (S)
INV. ELEV. = 14.40'

452 CATCH BASIN
RIM ELEV. = 18.75'
24" RCP (N)
INV. ELEV. = 14.42'
24" RCP (S)
INV. ELEV. = 14.46'
23" x 14" ELLIP. RCP
(SW)
INV. ELEV. = 14.95'

450 MANHOLE
RIM ELEV. = 19.14'
30" RCP (N)
INV. ELEV. = 14.34'
18" RCP (W)
INV. ELEV. = 14.32'
24" RCP (S)
INV. ELEV. = 14.32'

454 MANHOLE
RIM ELEV. = 18.44'
18" RCP (N)
INV. ELEV. = 13.80'
18" RCP (N)
INV. ELEV. = 14.05'
24" RCP (E)
INV. ELEV. = 14.04'
24" RCP (E)
INV. ELEV. = 14.00'
24" RCP (E)
INV. ELEV. = 14.30'
30" RCP (S)
INV. ELEV. = 14.05'

455 NO DATA AVAILABLE

456 CATCH BASIN
RIM ELEV. = 16.70'
18" RCP (S)
INV. ELEV. = 14.36'
18" RCP (S)
INV. ELEV. = 14.41'

457 CATCH BASIN
RIM ELEV. = 20.36'
23" X 14" ELLIPTICAL
RCP (S)
INV. ELEV. = 17.36'

458 CATCH BASIN
RIM ELEV. = 20.91'
23" X 14" ELLIP. RCP (N)
INV. ELEV. = 17.85'

459 MITERED END
SECTION
18" RCP (SW)
INV. ELEV. = 15.80'

460 CATCH BASIN
RIM ELEV. = 20.66'
23" X 14" ELLIP. RCP (NW)
INV. ELEV. = 17.68'
23" X 14" ELLIP. RCP (S)
INV. ELEV. = 17.64'
18" RCP (NE)
INV. ELEV. = 15.98'

461 MITERED END
SECTION
12" CMP (W)
INV. ELEV. = 15.58'

462 CATCH BASIN
23"X14" ELLIPTICAL RCP (SE)
INV. ELEV. = 17.48'

463 CATCH BASIN
18" RCP (NW)
INV. ELEV. = 16.65'

464 MANHOLE
RIM ELEV. = 20.85'
18" RCP (SE)
INV. ELEV. = 16.45'
18" RCP (NW)
UNABLE TO OBTAIN
INV.
TOP OF BAFFLE
ELEV. = 18.73'

465 MITERED END SECTION
15" RCP (E)
INV. ELEV. = 16.42'

466 MITERED END SECTION
18" RCP (SE)
INV. ELEV. = 16.01'

467 CATCH BASIN
RIM ELEV. = 17.36'
18" RCP (S)
INV. ELEV. = 15.08'
18" RCP (S)
INV. ELEV. = 15.08'

EXISTING DRAINAGE STRUCTURES
DATA SHEET

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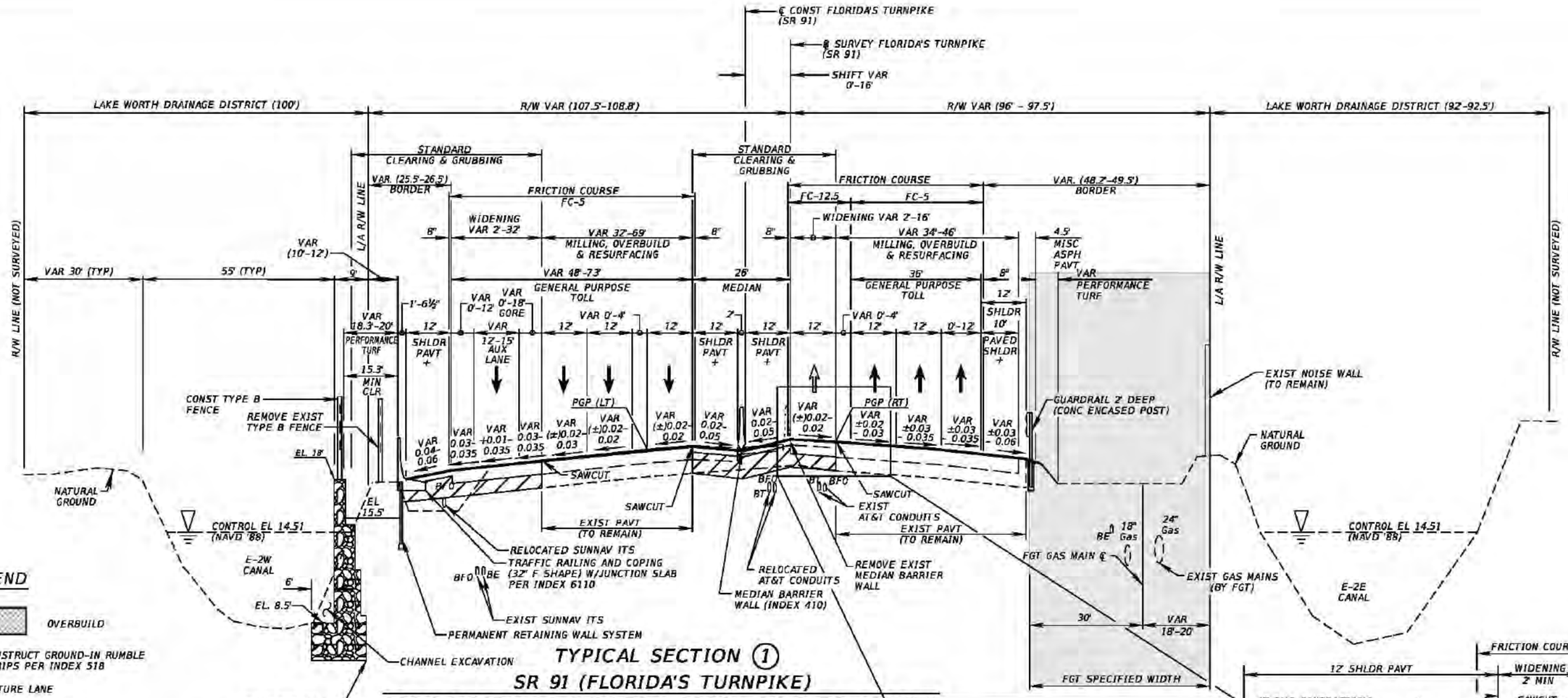
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

DRAINAGE MAP

SHEET NO.
21



LEGEND

OVERBUILD

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

FUTURE LANE

TYPICAL SECTION 1

SR 91 (FLORIDA'S TURNPIKE)

FROM NORTH OF BOYNTON BEACH BLVD TO APPROX. 1200' SOUTH OF C. STANLEY WEAVER CANAL

STA 2084+97.25 TO STA 2099+10.00

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (TRAFFIC D) (3/4") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE EXPRESS LANE)

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-12.5 (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

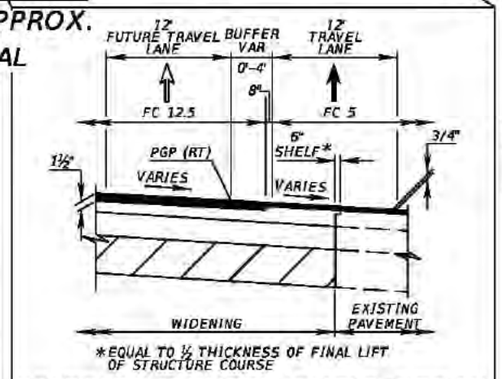
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

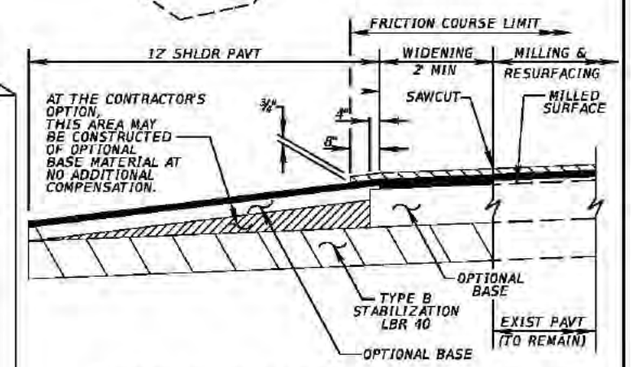
TYPICAL SECTION NOTES:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM WIDTH BASE WIDENING STRIP AT NO ADDITIONAL COST TO THE DEPARTMENT.
2. 1:6 FOR FILLS TO 5'
   1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'
   1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'
   1:2 WITH GUARDRAIL FOR FILLS OVER 20' AND MUST INCLUDE SHOULDER GUTTER
   SLOPES STEEPER THAN 1:4 MUST INCLUDE SHOULDER GUTTER FOR ALL FILL HEIGHTS



*EQUAL TO ½ THICKNESS OF FINAL LIFT OF STRUCTURE COURSE

FRICTION COURSE/SHELF DETAIL



SHOULDER PAVEMENT DETAIL

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
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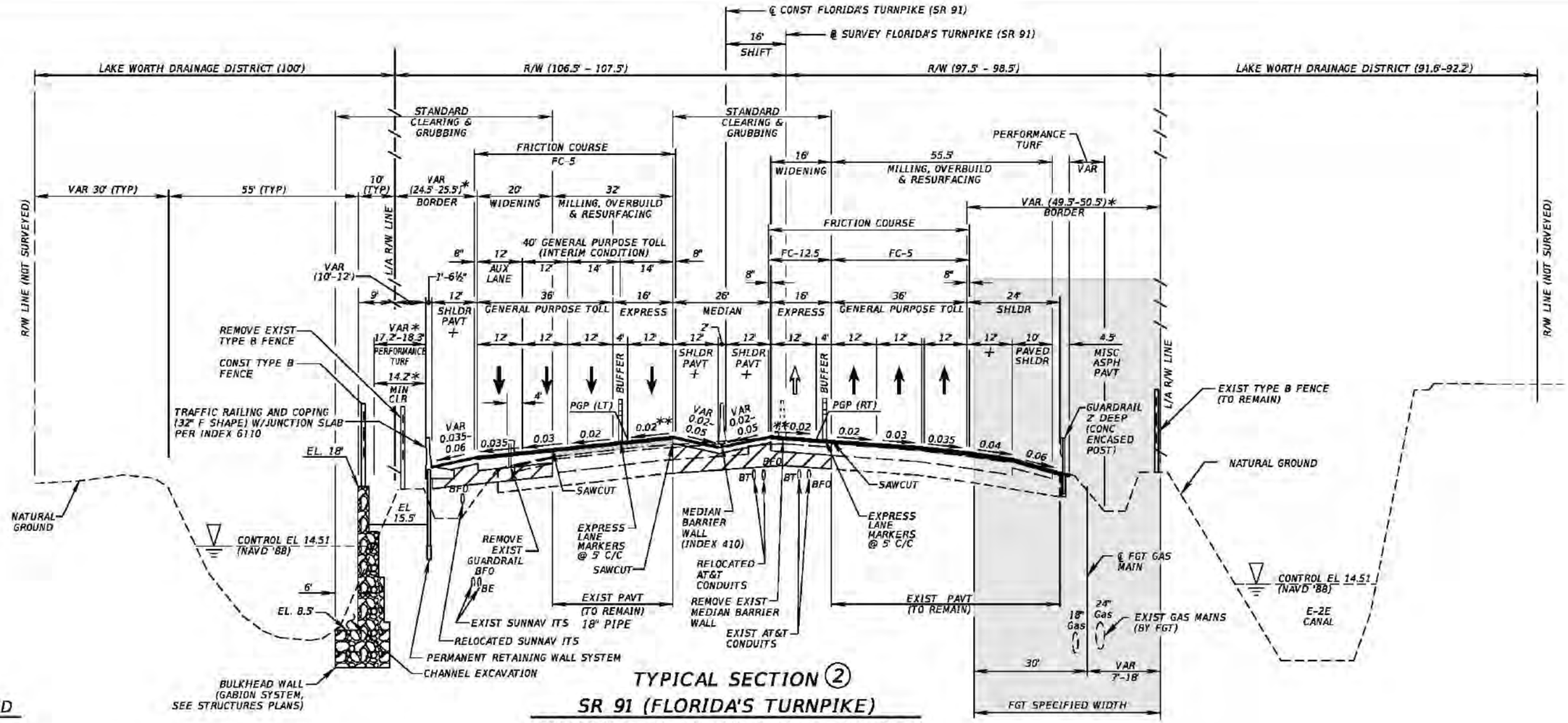
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 22



TYPICAL SECTION ②

SR 91 (FLORIDA'S TURNPIKE)

EXISTING 8-LANE ULTIMATE SECTION APPROXIMATELY 1200' NORTH AND SOUTH OF C. STANLEY WEAVER CANAL CROSSING

STA 2099+10.00 TO STA 2111+67.11
STA 2112+54.11 TO STA 2125+10.60

LEGEND

OVERBUILD

FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE EXPRESS LANE)

OPTIONAL BASE GROUP 12 (TYPE B-12.5) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-12.5 (TRAFFIC D) (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

REVISIONS			
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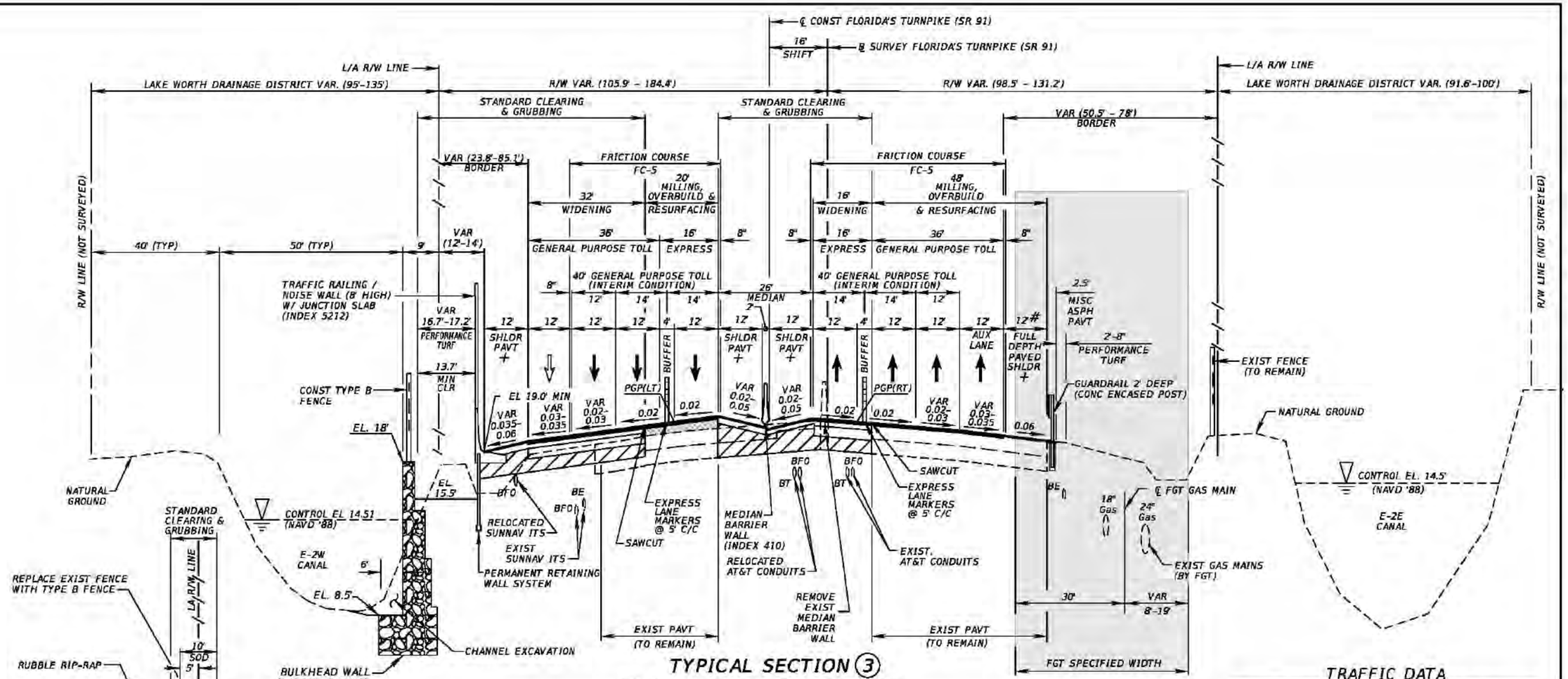
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 23



TYPICAL SECTION (3)

SR 91 (FLORIDA'S TURNPIKE)

FROM 1200' NORTH OF C. STANLEY WEAVER CANAL TO LANTANA TOLL PLAZA

STA 2125+10.60 TO STA 2168+79.75

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

HALF TYPICAL SECTION (3A)

LOCALIZED CANAL BANK AND SLOPE RESTORATION (SEE PLANS FOR LIMITS)

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

LEGEND

OVERBUILD

FUTURE LANE

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

EXISTING PAVEMENT WITHIN FGT SPECIFIED WIDTH TO REMAIN TO MAINTAIN STATUS QUO. POTENTIAL FOR FUTURE LANE

REVISIONS			
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 24

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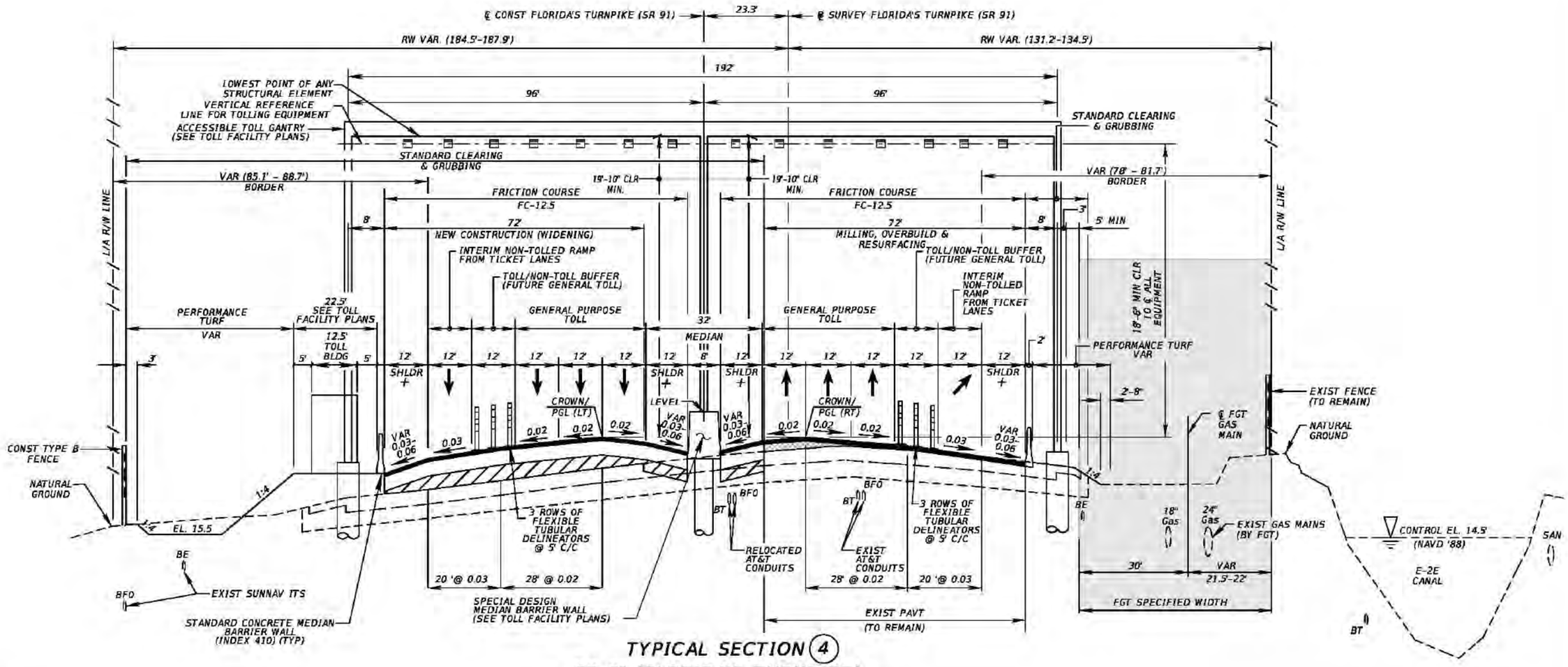

TYPICAL SECTION (4)

SR 91 (FLORIDA'S TURNPIKE)

@ AET TOLL GANTRY SOUTH OF LANTANA TOLL PLAZA

STA 2181+62.76 TO STA 2182+62.76

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 11 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (4"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-12.5 (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4")

MILLING, OVERBUILD & RESURFACING (SHOULDER PAVEMENT)

TYPE SP STUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

LEGEND

OVERBUILD

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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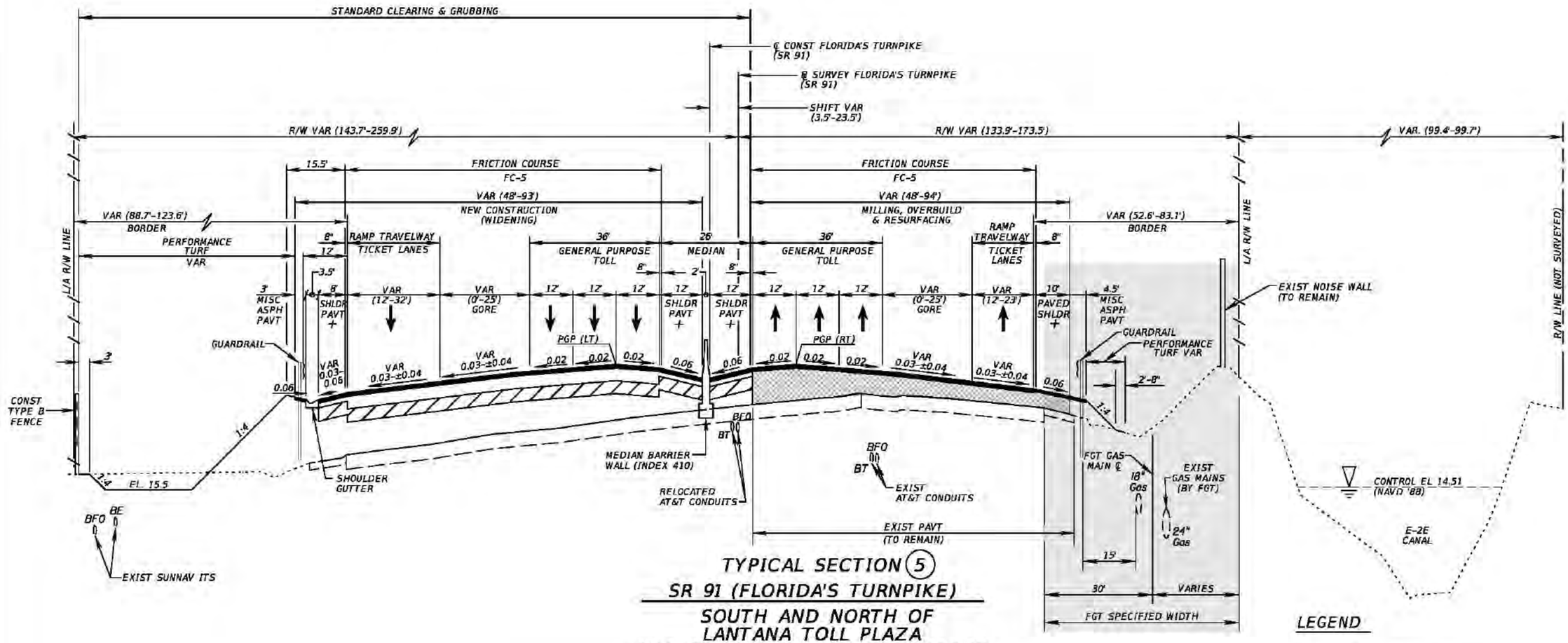
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 25



TYPICAL SECTION (5)

SR 91 (FLORIDA'S TURNPIKE)

SOUTH AND NORTH OF
LANTANA TOLL PLAZA
STA 2168+79.76 TO STA 2181+62.76
STA 2182+62.76 TO STA 2191+46.20
STA 2206+30.00 TO STA 2215+04.49

LEGEND

OVERBUILD

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (TRAFFIC D) (3/4") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

WIDENING & NEW CONSTRUCTION [TICKET LANES]

OPTIONAL BASE GROUP 11 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING [TICKET LANES]

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

SHOULDER PAVEMENT [TICKET LANES]

OPTION BASE GROUP 3 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

MILLING, OVERBUILD & RESURFACING [TICKET LANES] (SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

REVISIONS			
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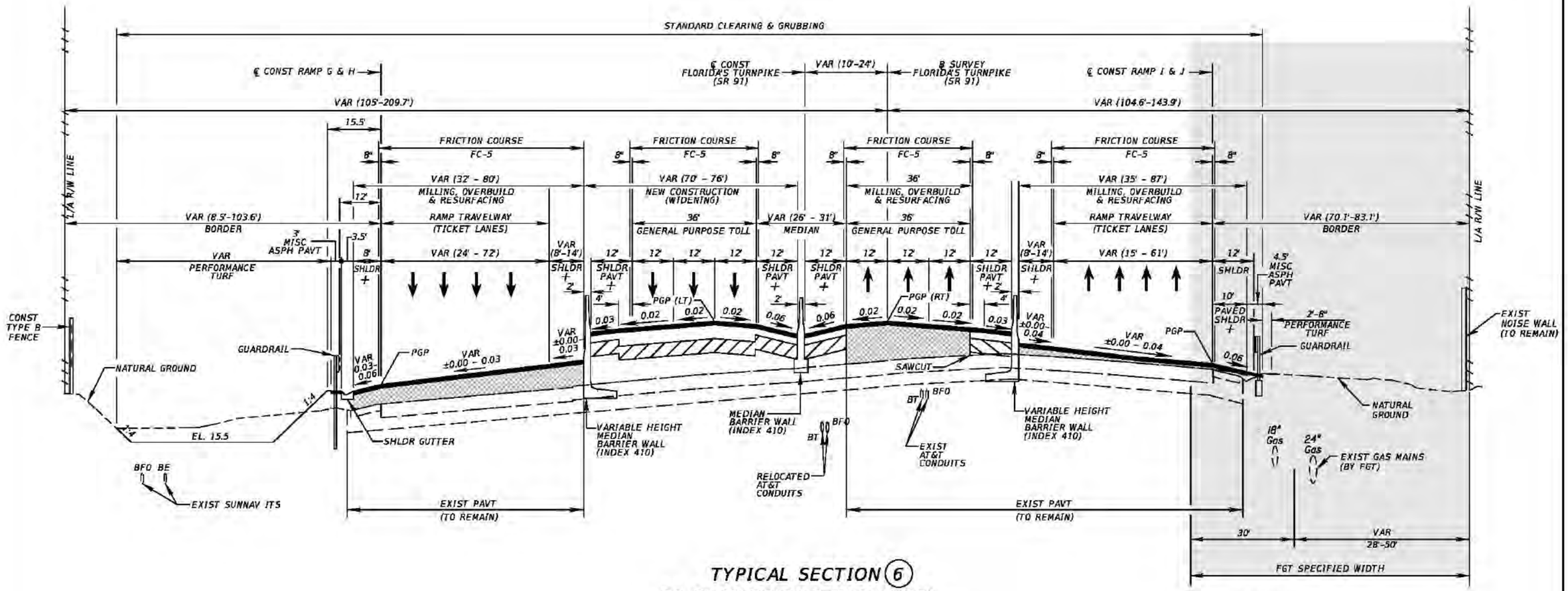
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 26



TYPICAL SECTION 6
SR 91 (FLORIDA'S TURNPIKE)
SOUTH AND NORTH OF
LANTANA TOLL PLAZA
STA 2191+46.20 TO STA 2198+74.50
STA 2200+73.85 TO STA 2206+30.00

LEGEND

OVERBUILD

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 11 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

SHOULDER PAVEMENT

OPTION BASE GROUP 3 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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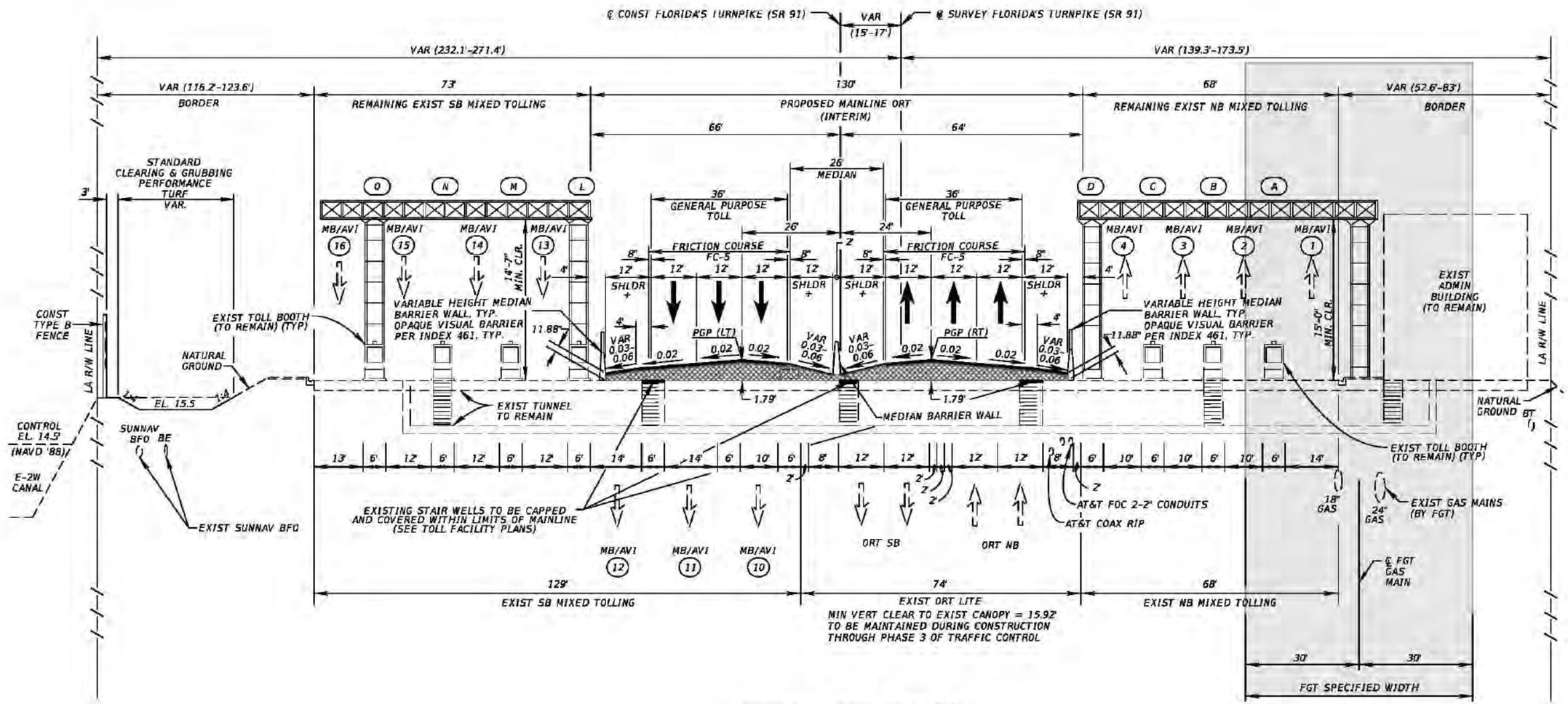
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 27



TYPICAL SECTION (7)
SR 91 (FLORIDA'S TURNPIKE)
@ LANTANA TOLL PLAZA
STA 2198+74.50 TO STA 2200+73.85

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 65 MPH

LEGEND

OVERBUILD

NOTE:
SEE TOLL FACILITY PLANS FOR ADDITIONAL INFORMATION.

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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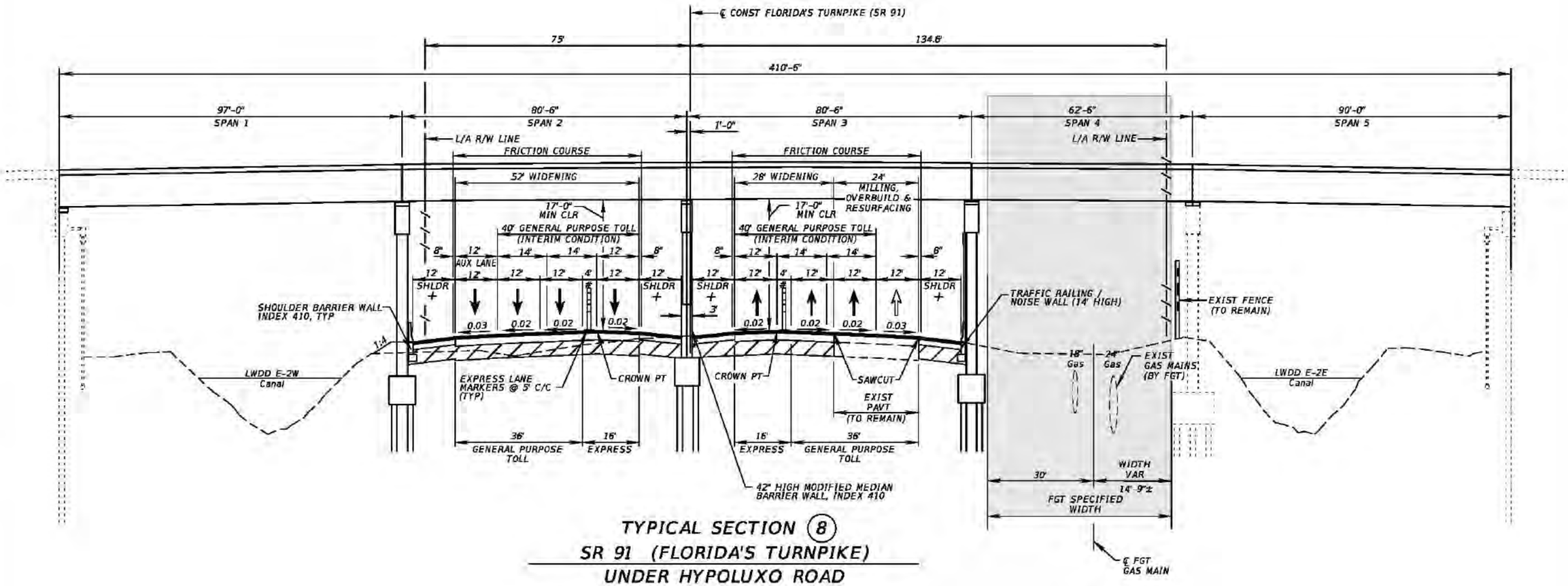
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 28



TYPICAL SECTION (8)

SR 91 (FLORIDA'S TURNPIKE)

UNDER HYPOLUXO ROAD

BRIDGE NO. 934367

STA 2233+24.00 TO STA 2234+07.00

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (TRAFFIC D) (3/4") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE EXPRESS LANE)

OPTIONAL BASE GROUP 11 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

LEGEND

↑ FUTURE LANE
+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518
# EXPRESS LANE BUFFER

REVISIONS			
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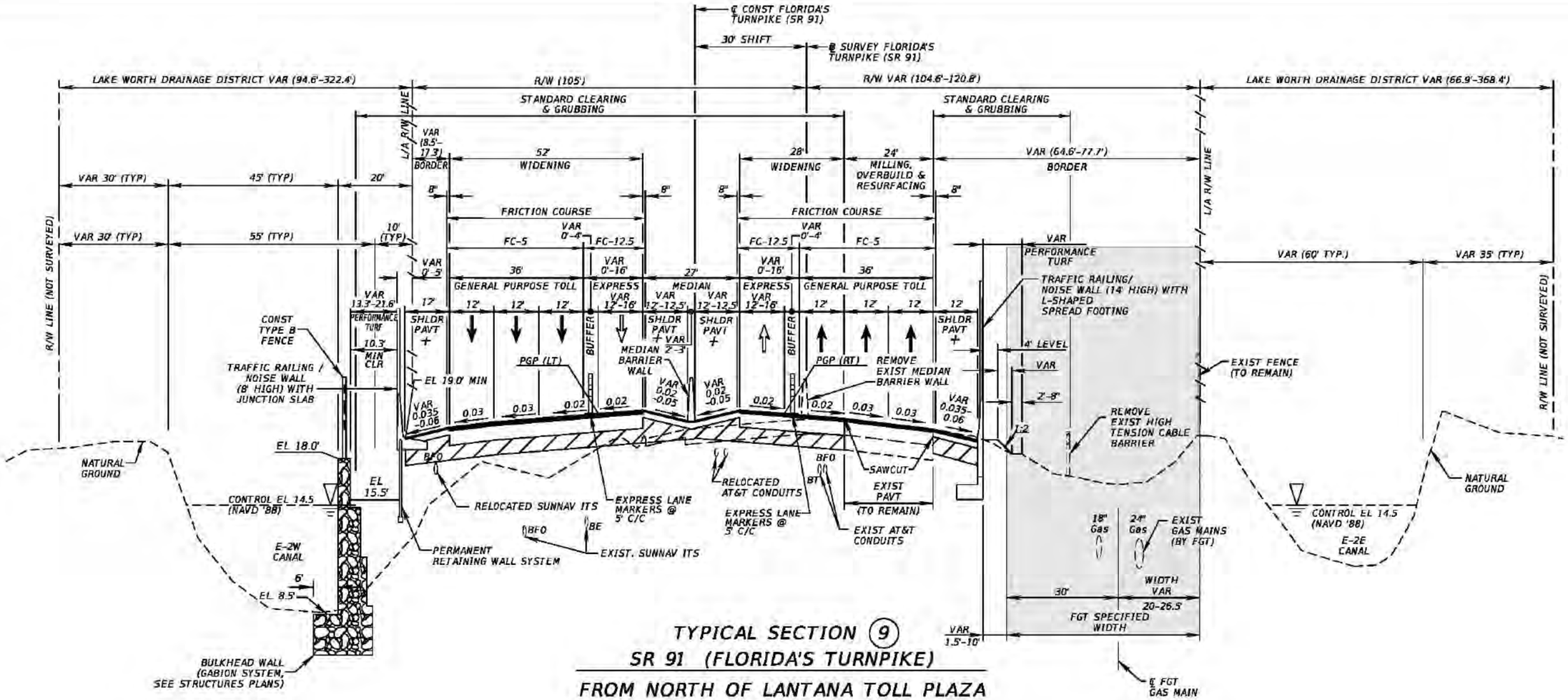
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 29



TYPICAL SECTION 9
SR 91 (FLORIDA'S TURNPIKE)

FROM NORTH OF LANTANA TOLL PLAZA
TO SOUTH OF LANTANA ROAD
STA 2215+04.49 TO STA 2233+24.00
STA 2234+07.00 TO STA 2235+00.00

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (TRAFFIC D) (3/4") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE EXPRESS LANE)

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-12.5 (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

LEGEND

⇧ FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
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91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 30

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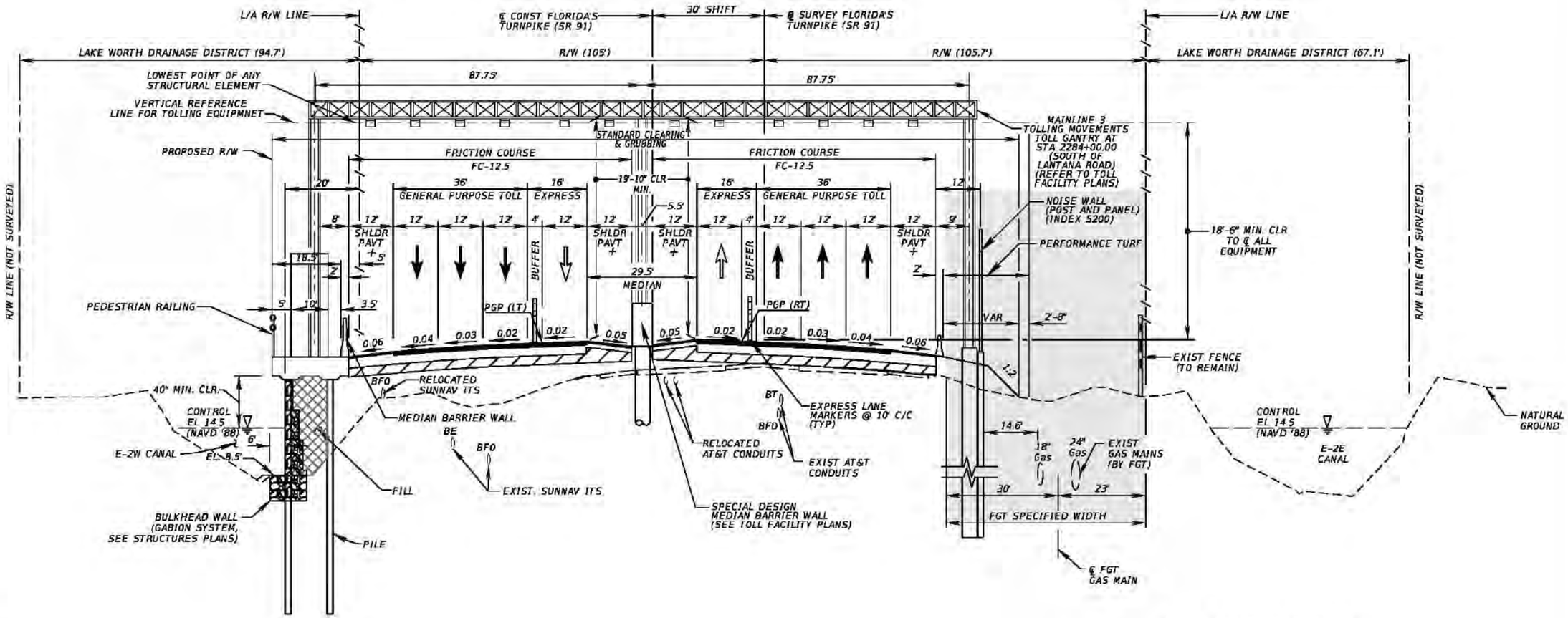

LEGEND

⇧ FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

NOTE:
TOLL GANTRY STRUCTURE FOUNDATIONS SHALL BE DESIGNED TO ALLOW FOR EXCAVATION DOWN TO TWO FEET BELOW THE BOTTOM OF THE LOWEST GAS MAIN ADJACENT TO OR WITHIN FGT SPECIFIED WIDTH.

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

TYPICAL SECTION 9B
SR 91 (FLORIDA'S TURNPIKE)
TOLL GANTRY
(SOUTH OF LANTANA ROAD)
STA 2283+66.30 TO STA 2284+66.30

NEW CONSTRUCTION

12" STABILIZATION, OBG 11 (7" TYPE B 12.5) WITH TYPE SP STRUCTURAL COURSE (TRAFFIC D) (4") PG 76-22 AND FC-12.5 (1½") PG 76-22

SHOULDER PAVEMENT

12" STABILIZATION, OBG 11 (7" TYPE B 12.5) WITH TYPE SP STRUCTURAL COURSE (TRAFFIC D) (4") PG 76-22 AND FC-12.5 (1½") PG 76-22

8-LANE ULTIMATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 31

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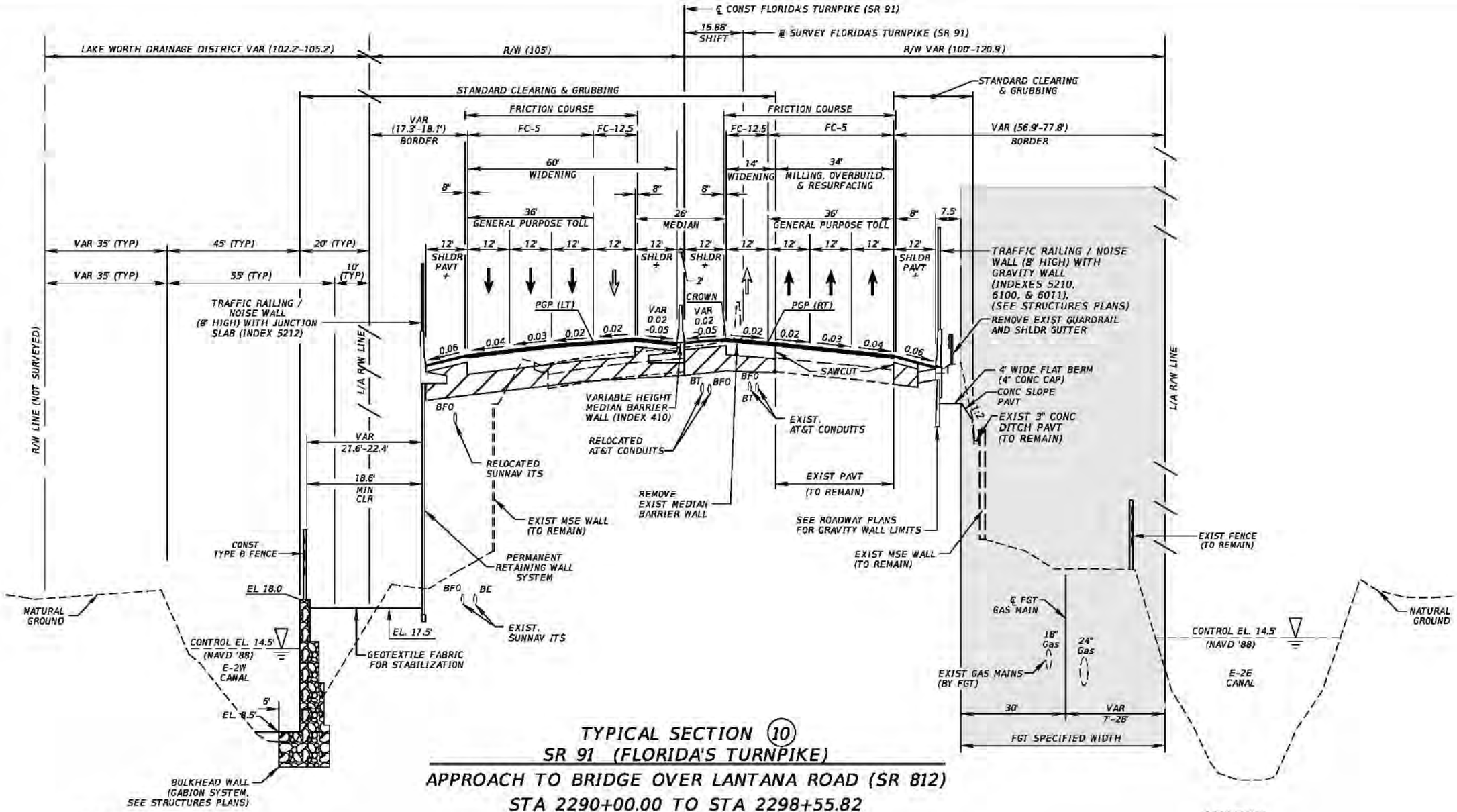

TYPICAL SECTION (10)
SR 91 (FLORIDA'S TURNPIKE)
APPROACH TO BRIDGE OVER LANTANA ROAD (SR 812)
STA 2290+00.00 TO STA 2298+55.82
STA 2299+88.32 TO STA 2309+20.00

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 40B
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (TRAFFIC D) (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

LEGEND

OVERBUILD

FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 32

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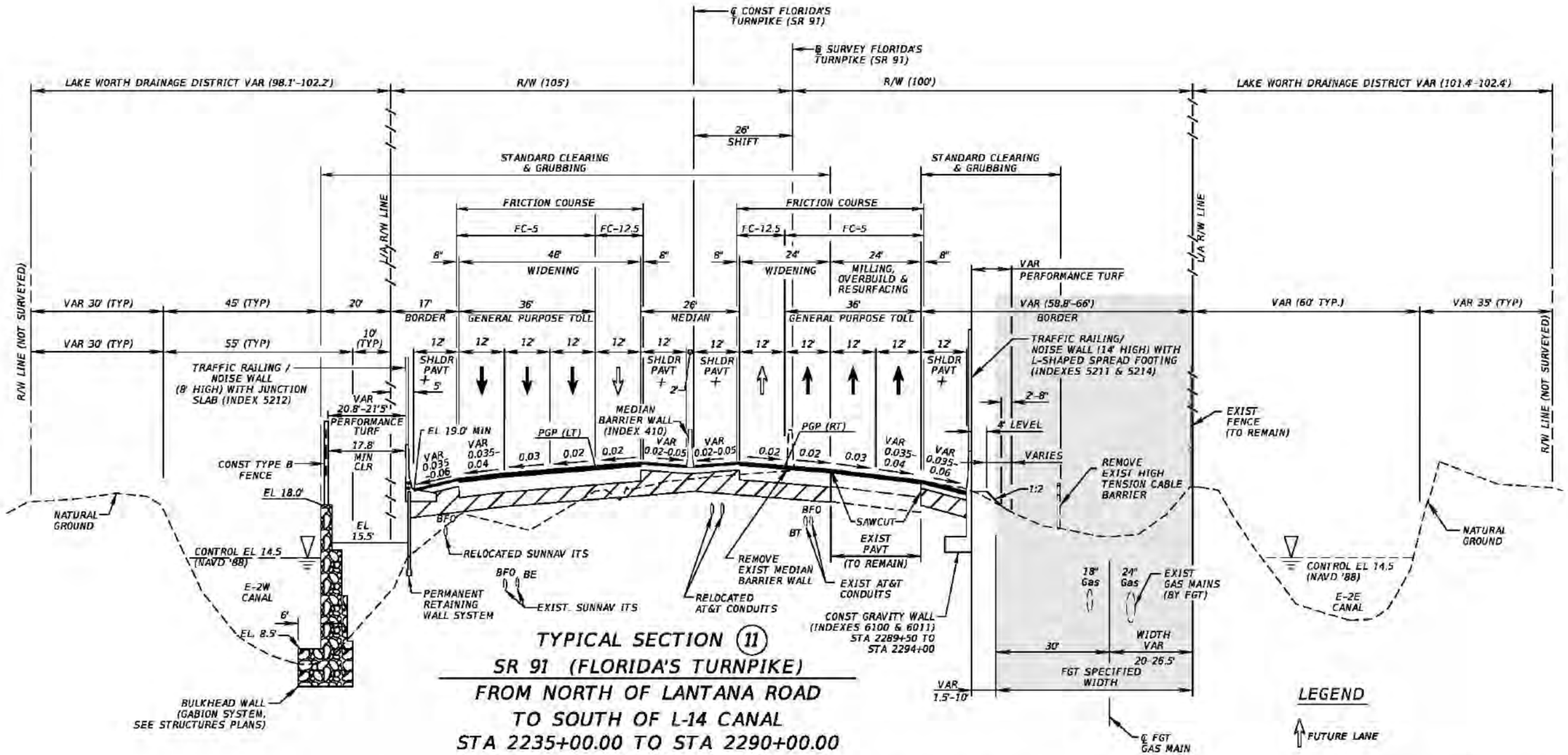

TYPICAL SECTION (11)

SR 91 (FLORIDA'S TURNPIKE)

FROM NORTH OF LANTANA ROAD TO SOUTH OF L-14 CANAL

STA 2235+00.00 TO STA 2290+00.00

STA 2309+20.00 TO STA 2349+00.00

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (TRAFFIC D) (3/4") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE EXPRESS LANE)

OPTIONAL BASE GROUP 11 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

LEGEND

↑ FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Hooi Gin Ng, P.E.
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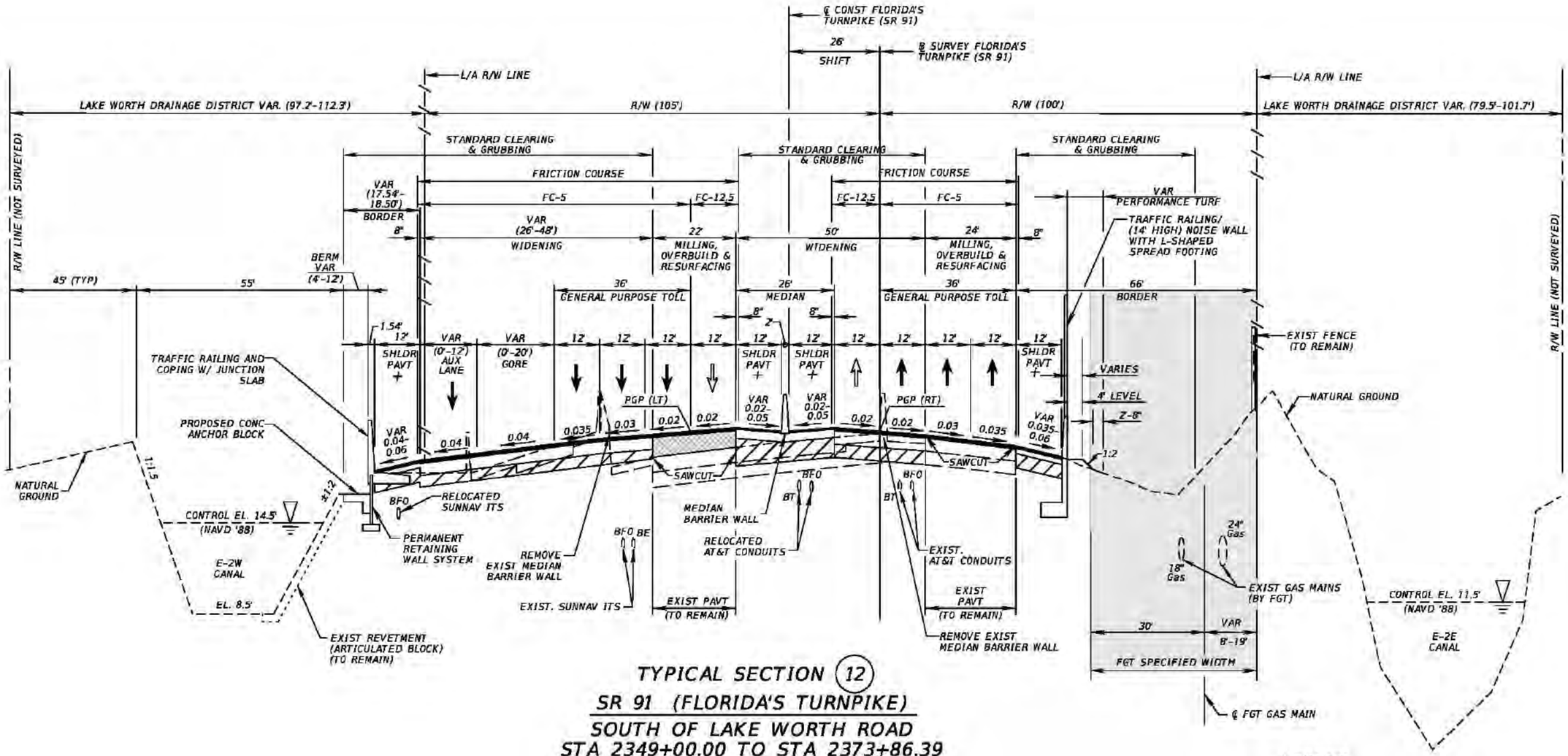
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 33



TYPICAL SECTION (12)

SR 91 (FLORIDA'S TURNPIKE)

SOUTH OF LAKE WORTH ROAD

STA 2349+00.00 TO STA 2373+86.39

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE LANE)

OPTIONAL BASE GROUP 11 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (1½") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

LEGEND

OVERBUILD

FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. License No. 58123
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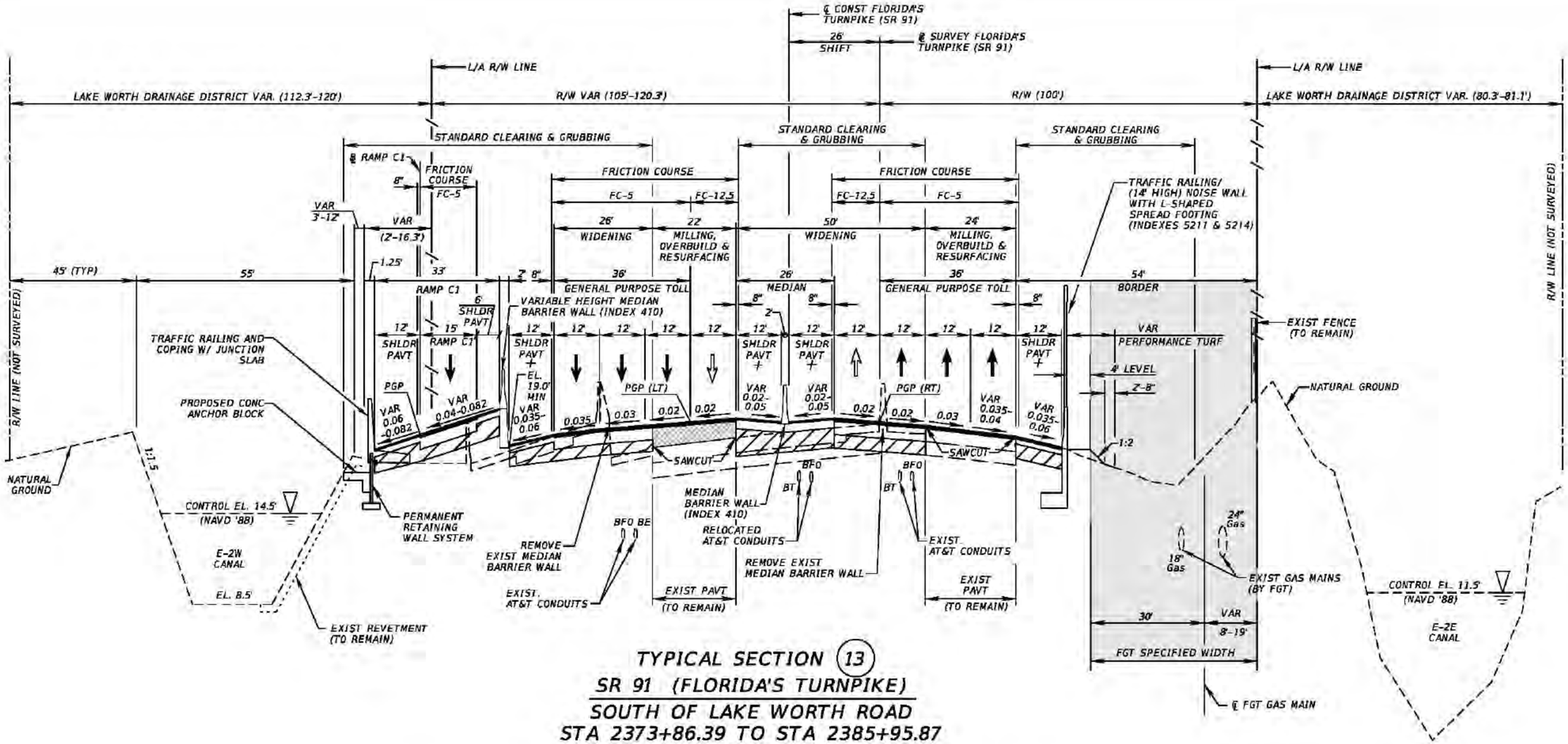
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 34



TYPICAL SECTION (13)
SR 91 (FLORIDA'S TURNPIKE)
SOUTH OF LAKE WORTH ROAD
STA 2373+86.39 TO STA 2385+95.87

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION (RAMP)

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2½"),
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING (RAMP SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 2 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1½")

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")

WIDENING & NEW CONSTRUCTION (FUTURE LANE)

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-12.5 (1½") (PG 76-22)

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

LEGEND

OVERBUILD

FUTURE LANE

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 35

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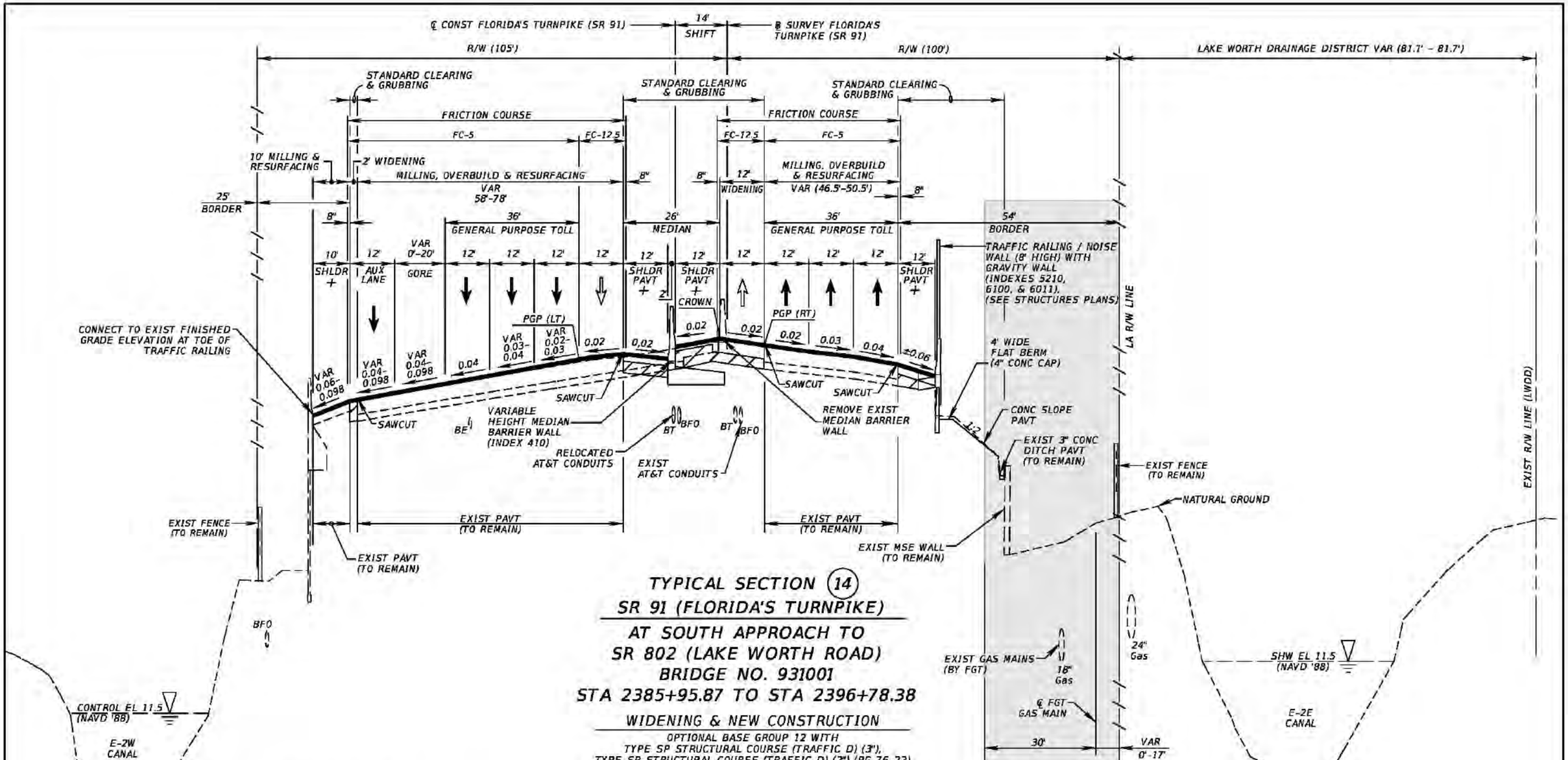

TYPICAL SECTION (14)

SR 91 (FLORIDA'S TURNPIKE)

AT SOUTH APPROACH TO SR 802 (LAKE WORTH ROAD)

BRIDGE NO. 931001

STA 2385+95.87 TO STA 2396+78.38

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

WIDENING & NEW CONSTRUCTION (FUTURE EXPRESS LANE)

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-12.5 (1½") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

LEGEND

OVERBUILD

FUTURE LANE

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
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West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 36

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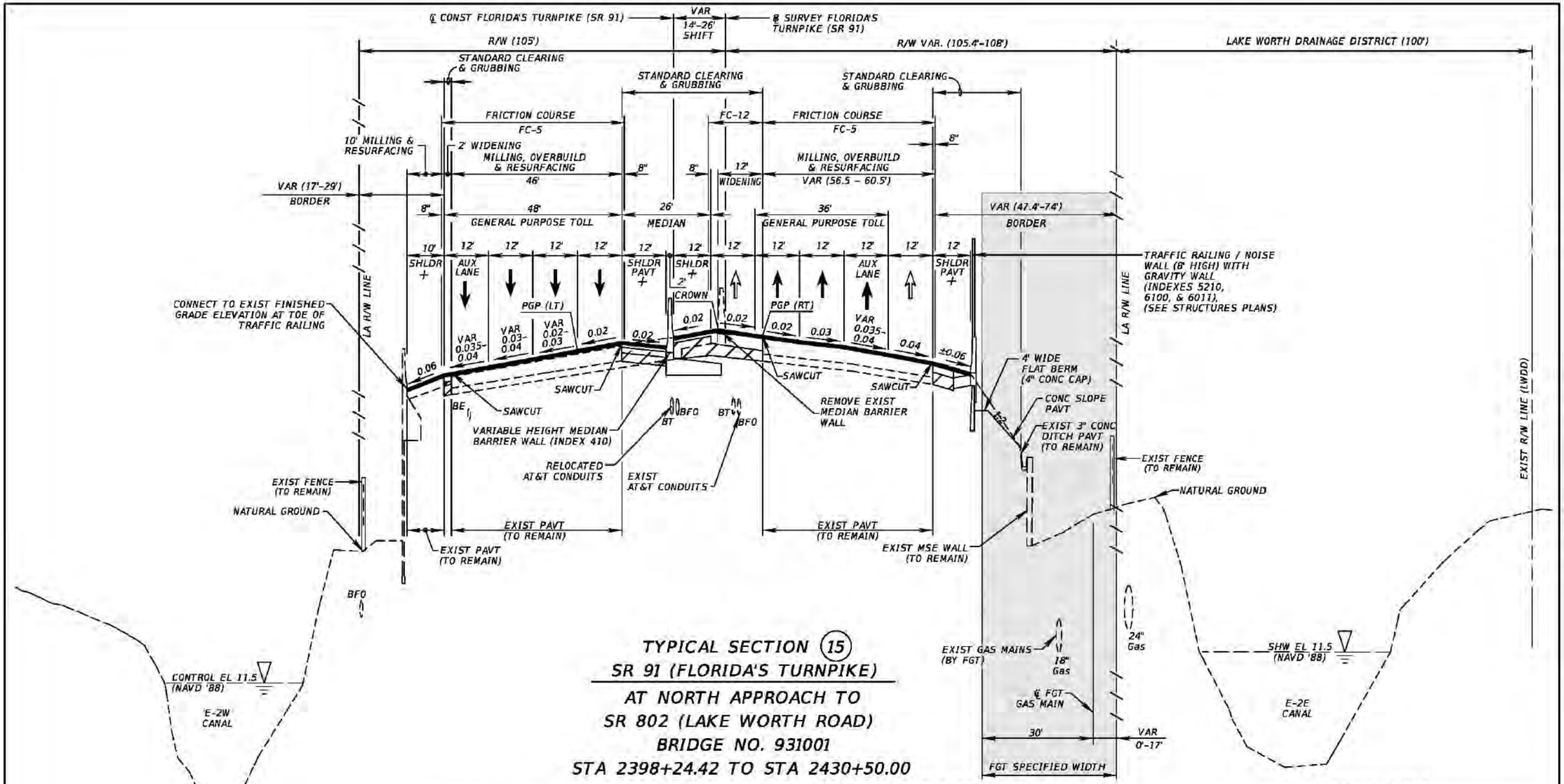

TYPICAL SECTION (15)
SR 91 (FLORIDA'S TURNPIKE)
AT NORTH APPROACH TO
SR 802 (LAKE WORTH ROAD)
BRIDGE NO. 931001
STA 2398+24.42 TO STA 2430+50.00

WIDENING & NEW CONSTRUCTION
OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)
OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

TRAFFIC DATA
CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

RAMP / AUXILIARY LANE
DESIGN SPEED = 30-65 MPH

LEGEND
FUTURE LANE

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 37

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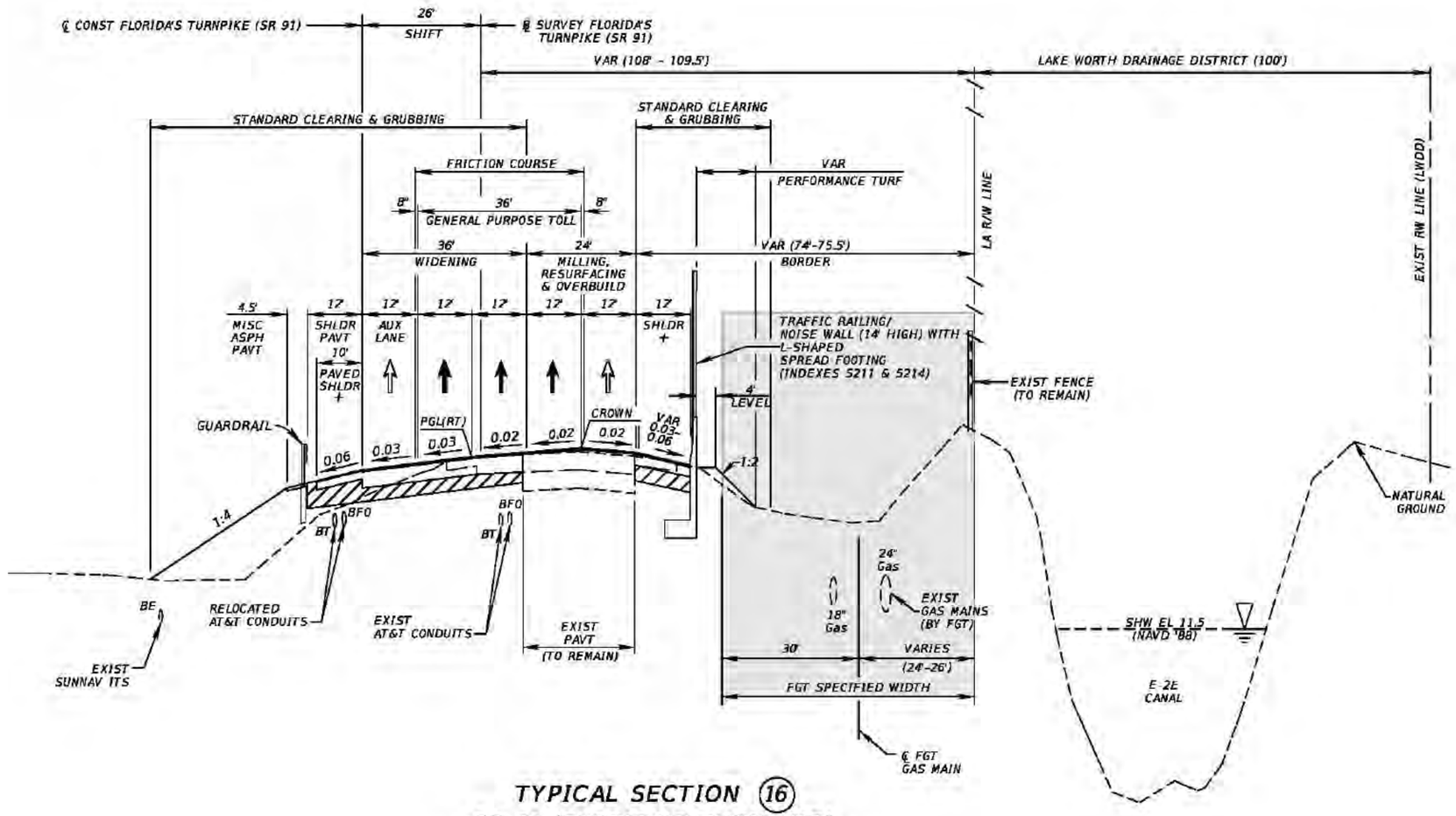

TYPICAL SECTION (16)
SR 91 (FLORIDA'S TURNPIKE)
AT NB APPROACH TO
WEST PALM BEACH SERVICE PLAZA
STA 2430+50.00 TO STA 2448+60.00

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

LEGEND

USE BLACK BASE ONLY TO MITIGATE SUB STANDARD BASE CLEARANCE

FUTURE LANE

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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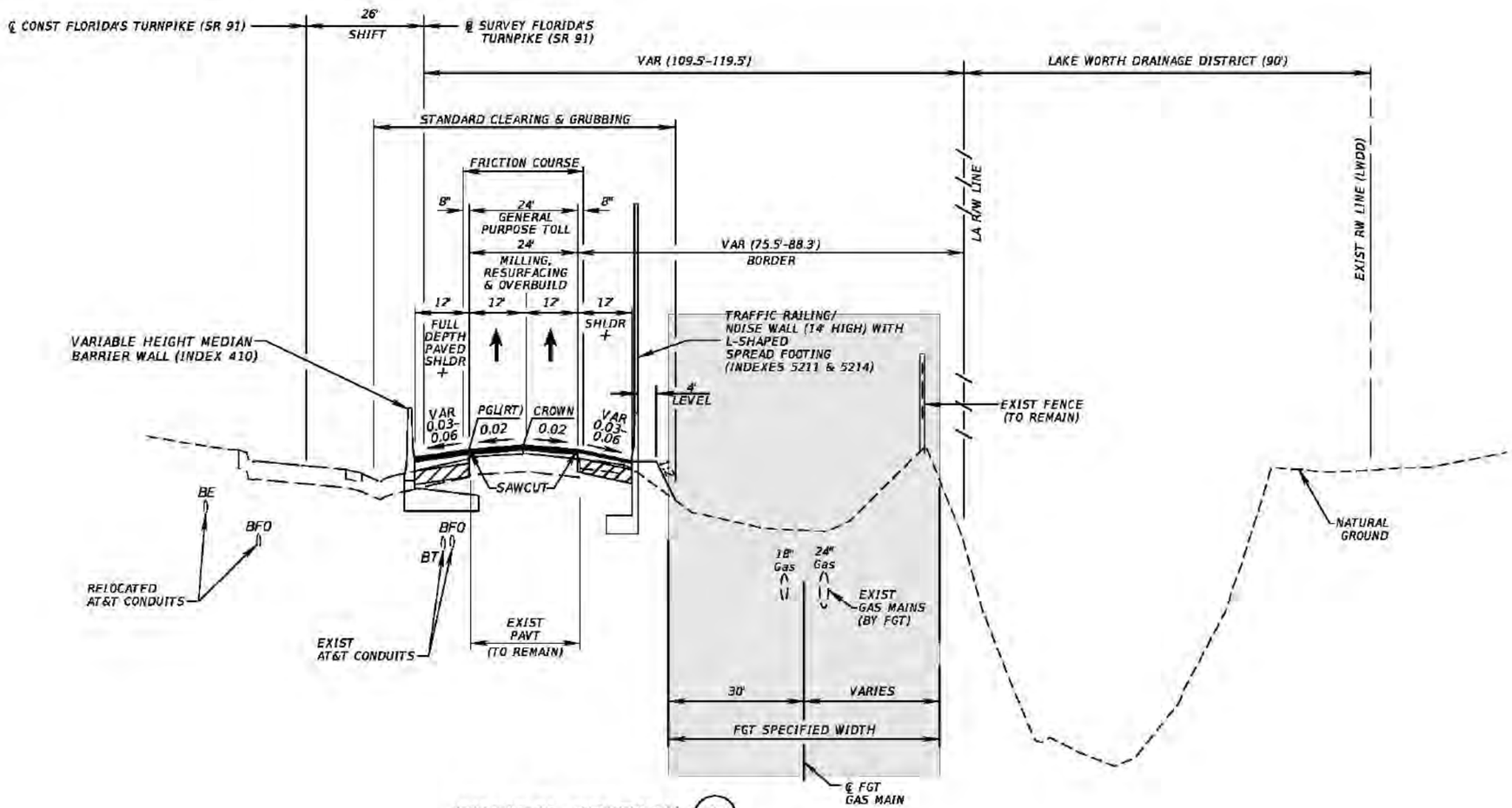
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 38



TYPICAL SECTION (17)
SR 91 (FLORIDA'S TURNPIKE)
AT NB APPROACH TO WEST PALM BEACH SERVICE PLAZA
STA 2448+60.00 TO STA 2460+50.00

MILLING, OVERBUILD & RESURFACING
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (OUTSIDE SHOULDER PAVEMENT)
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") (PG 76-22)

LEGEND
USE BLACK BASE ONLY TO MITIGATE SUB STANDARD BASE CLEARANCE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

TRAFFIC DATA
CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 39

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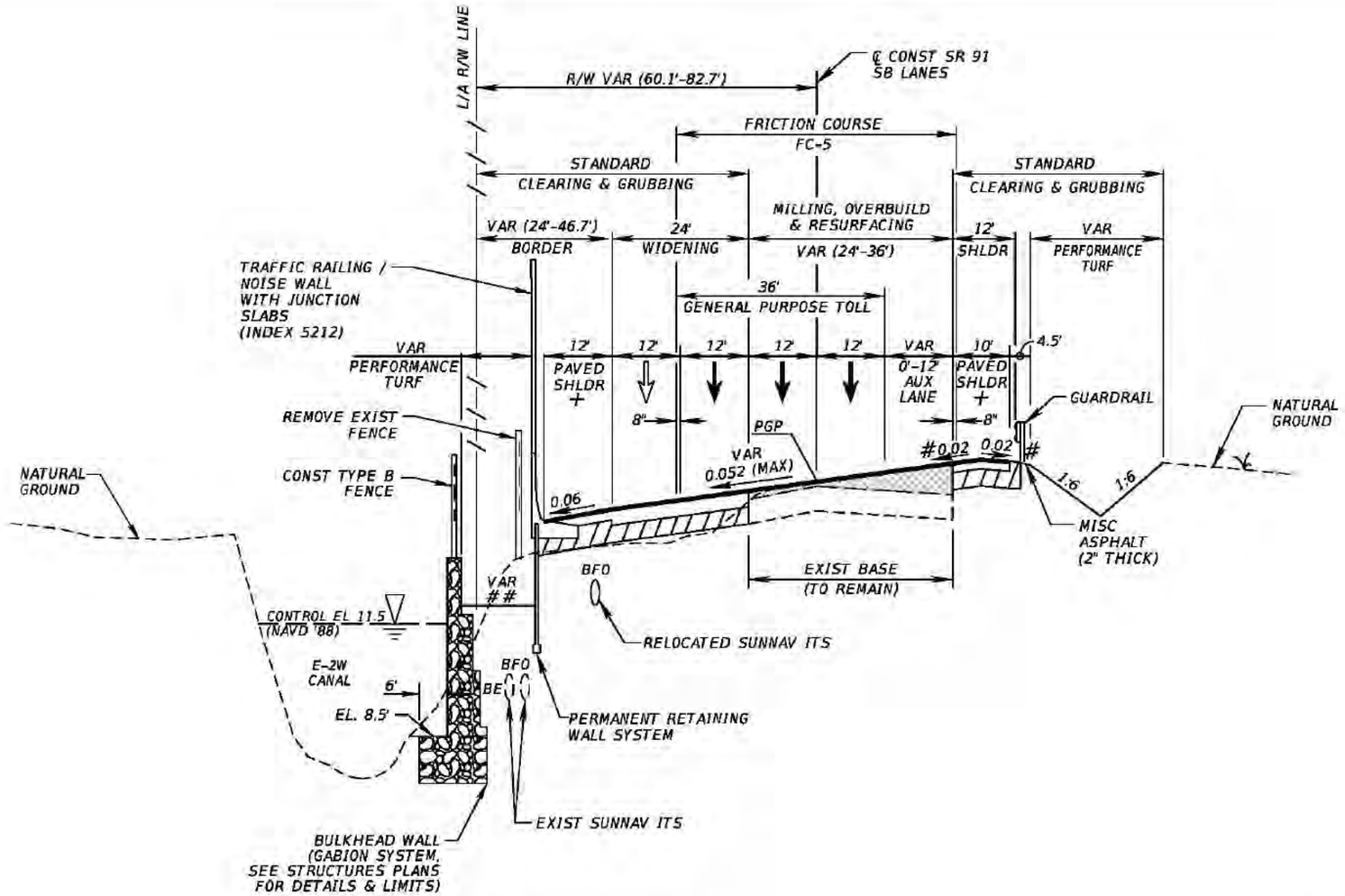


TYPICAL SECTION (18)

SR 91 (FLORIDA'S TURNPIKE) (SOUTHBOUND)

8-LANE ULTIMATE
SOUTH OF WEST PALM BEACH
SERVICE PLAZA
STA 3430+50.22 TO STA 3438+49.57

LEGEND

OVERBUILD

FUTURE LANE

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

VARIES PER STANDARD INDEX 510

VARIES. SEE CROSS SECTIONS AND PLANS FOR DETAILS

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

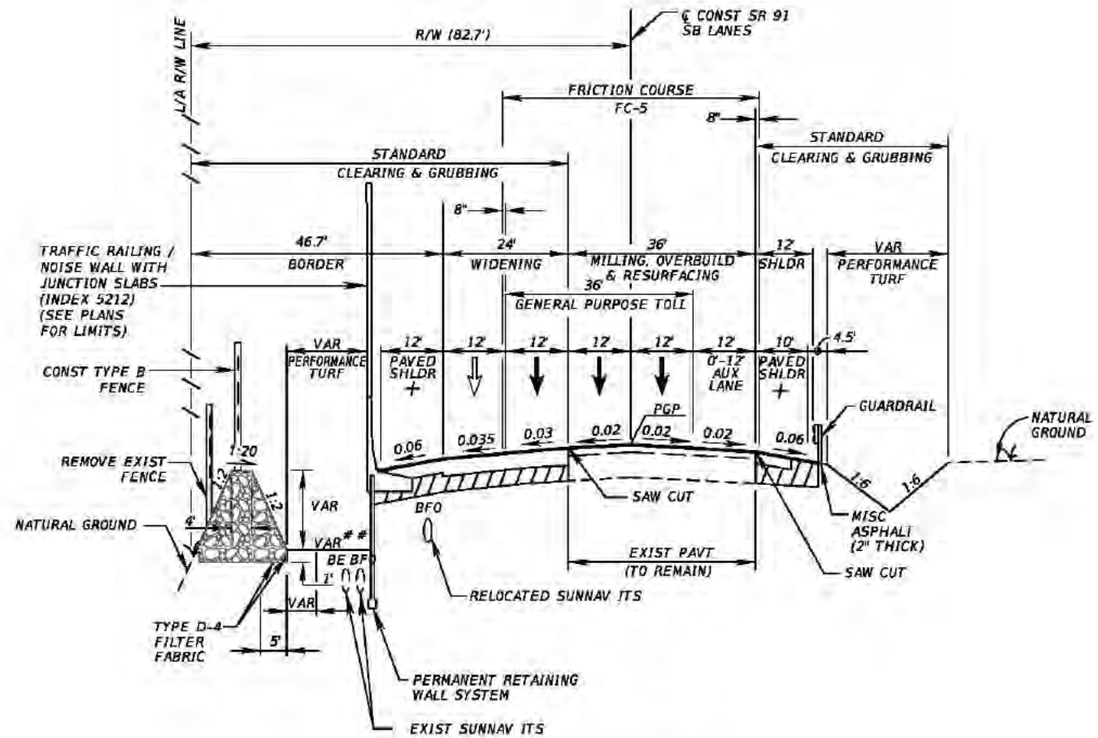
Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO.
40



TYPICAL SECTION (19)

SR 91 (FLORIDA'S TURNPIKE) (SOUTHBOUND)

8-LANE ULTIMATE

LEAVING WEST PALM BEACH SERVICE PLAZA

STA 3438+49.57 TO STA 3448+00.00

LEGEND

GRAVEL FILL (COURSE AGGREGATE, STANDARD SIZE, NO. 4 GRADED) (SEE PLAN FOR LIMITS)

FUTURE LANE

CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

WIDTH AND INVERT VARIES. SEE CROSS SECTIONS AND PLANS.

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

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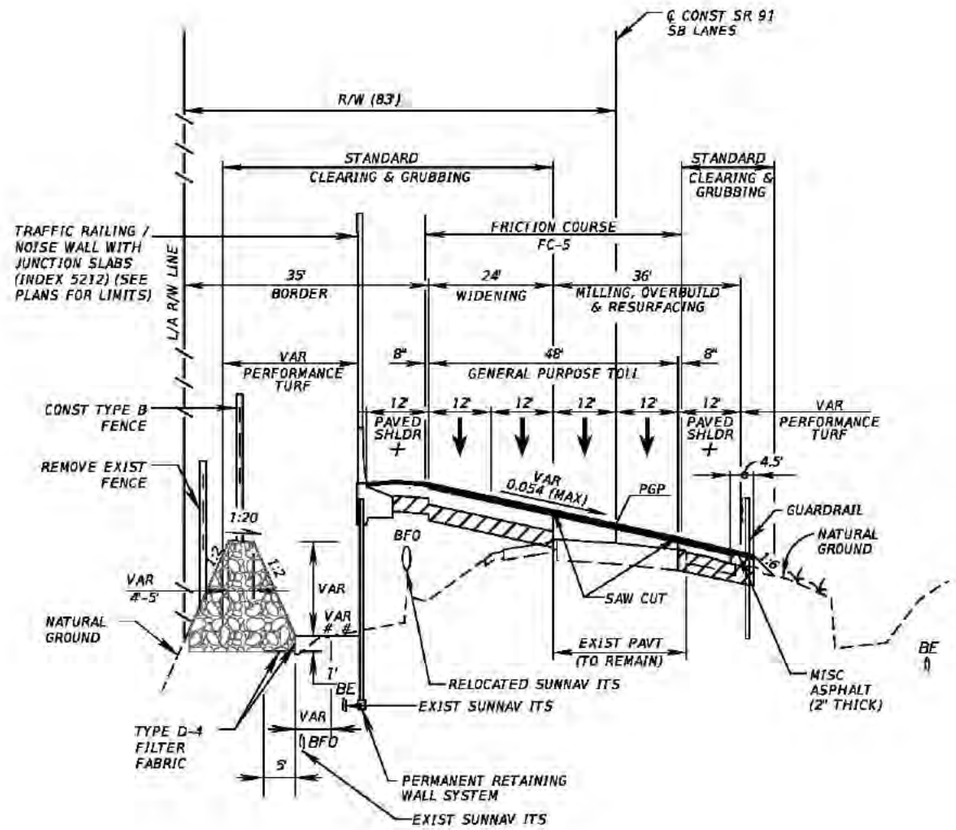
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 41



PROPOSED TYPICAL SECTION 20
SR 91 (FLORIDA'S TURNPIKE) (SOUTHBOUND)
8-LANE ULTIMATE
NORTH OF WEST PALM BEACH
SERVICE PLAZA
STA 3448+00.00 TO STA 3477+60.00

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 73,700
ESTIMATED OPENING YEAR = 2020 AADT = 80,100
ESTIMATED DESIGN YEAR = 2040 AADT = 126,400
K = 9.5% D = 56.6% T = 11.3% (24 HOUR)
DESIGN HOUR T = 6.0%
TRUCK DDHV = 408
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3"),
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING, OVERBUILD & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)

MILLING, OVERBUILD & RESURFACING (INSIDE SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG 76-22)

LEGEND

GRAVEL FILL (COURSE AGGREGATE, STANDARD SIZE, NO. 4 GRADED) (SEE PLAN FOR LIMITS)

FUTURE LANE

+CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

WIDTH AND INVERT VARIES. SEE CROSS SECTIONS AND PLANS.

REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO.
42

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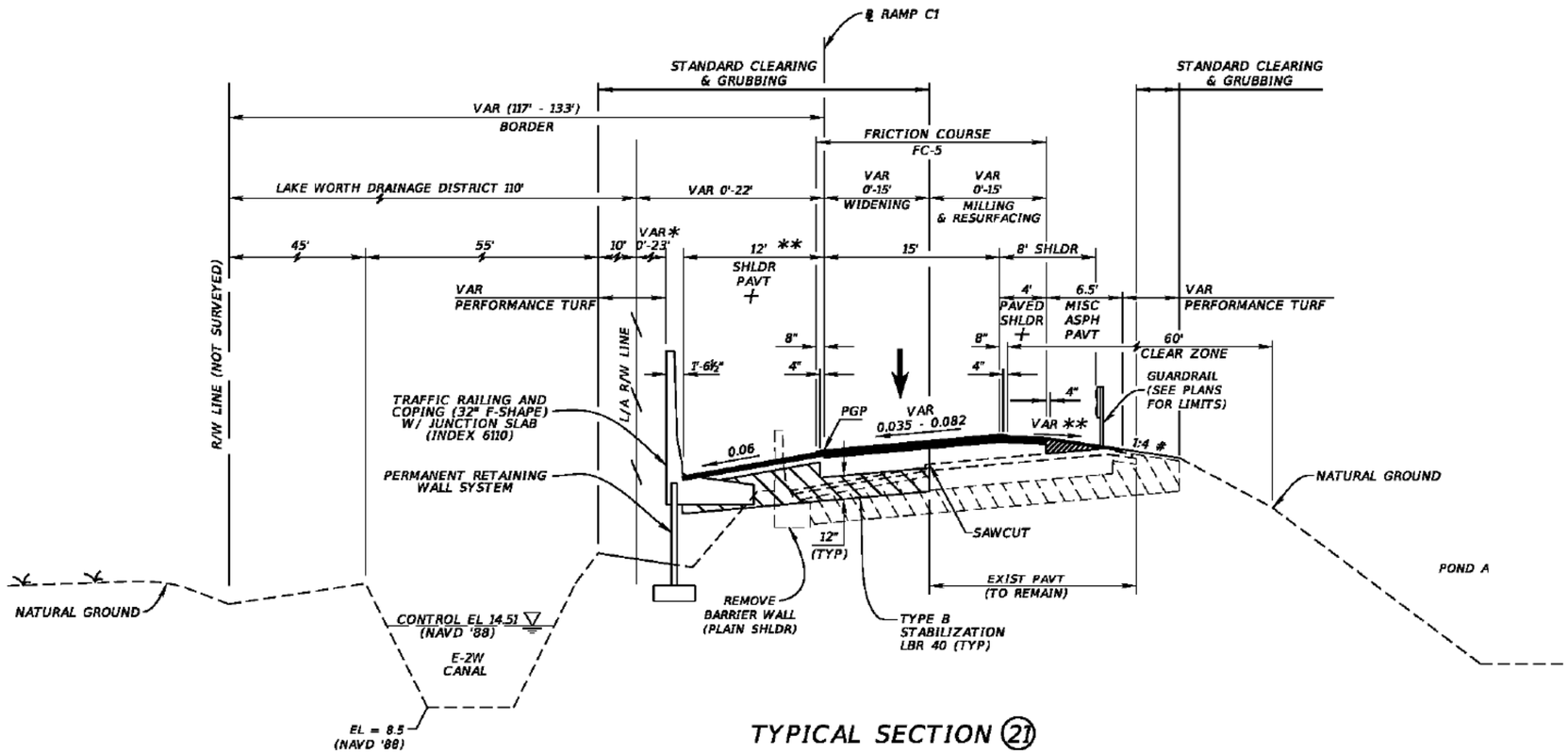

TYPICAL SECTION 21

SR 91 (FLORIDA'S TURNPIKE)

RAMP C1

STA 176+98.00 TO STA 182+83.49

WIDENING & NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2½")
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

MILLING & RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1½")
AND FRICTION COURSE FC-5 (PG 76-22)

WIDENING (SHOULDER PAVEMENT)

OPTIONAL BASE GROUP 2 (TYPE B-12) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1½") (PG 76-22)

MILLING & RESURFACING (SHOULDER PAVEMENT)

TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 14,900
ESTIMATED OPENING YEAR = 2020 AADT = 18,300
ESTIMATED DESIGN YEAR = 2040 AADT = 20,800
K = 11.9% D = 70.6% T = 10.7% (24 HOUR)
DESIGN HOUR T = 5.0%
TRUCK DDHV = 67
DESIGN SPEED = 30 MPH - 50 MPH
POSTED SPEED = N/A

LEGEND

+ CONSTRUCT GROUND-IN RUMBLE STRIPS PER INDEX 518

* VARIES PER STANDARD INDEX 515

** SHOULDER WIDENED BEYOND THE STANDARD 6' TO PROVIDE MINIMUM HORIZONTAL STOPPING SIGHT DISTANCE

\# 1:6 SLOPE WHEN GUARDRAIL NOT PRESENT

▨ MISCELLANEOUS ASPHALT WEDGE

REVISIONS			
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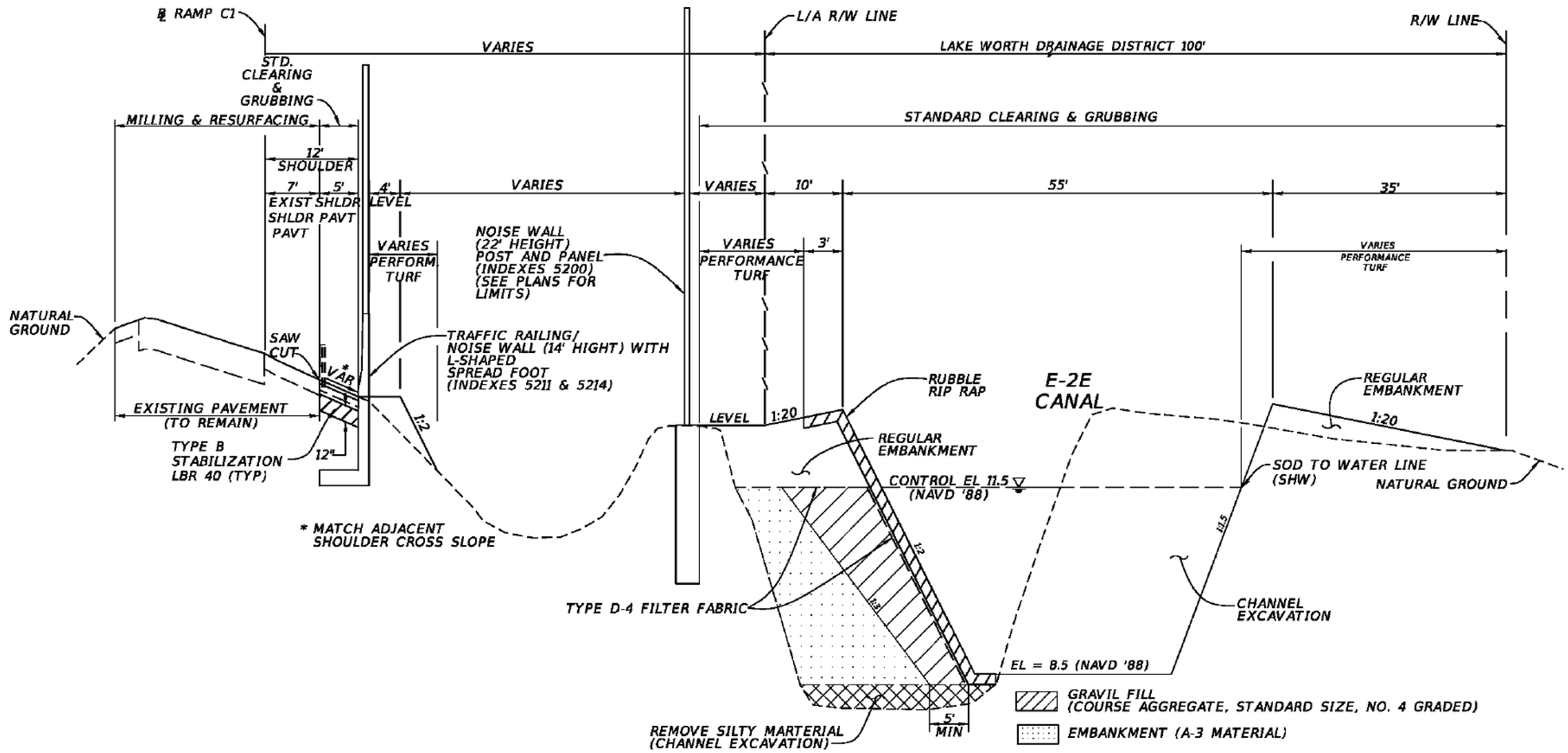
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 43



TYPICAL SECTION 22

SR 91 (FLORIDA'S TURNPIKE)

RAMP D1

STA 107+00 TO STA 116+00

PAVEMENT DESIGN

(SEE NOTES TO REVIEWER)

REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

TYPICAL SECTION

SHEET NO. 44

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GENERAL NOTES:

1. THE CONTRACTOR MAY USE ANY OF THE OPTIONAL PIPE MATERIALS TABULATED FOR A GIVEN STRUCTURE. ONLY THE MATERIAL OPTIONS TABULATED FOR A GIVEN STRUCTURE CAN BE USED.
2. ADJUSTMENT TO THE BID QUANTITIES, PRICES AND PAYMENT WILL NOT BE ALLOWED DUE TO INCREASE OR DECREASE IN STRUCTURE SIZE, SHAPE, LENGTH, WIDTH, DEPTH OR ACCESSORY CONSTRUCTION NECESSARY TO ACCOMMODATE THE USE OF AN OPTIONAL PIPE MATERIAL OTHER THAN THE "PLOTTED" OPTION; LIKEWISE THERE WILL BE NO ADDED OR REDUCED COMPENSATION FOR STRUCTURE ALTERATIONS REQUIRED TO RELIEVE UTILITY CONFLICTS WHICH ARISE FROM THE USE OF AN OPTIONAL MATERIAL OTHER THAN THE "PLOTTED" OPTION.
3. ADJUSTMENT TO THE BID QUANTITIES, PRICES AND PAYMENT WILL NOT BE ALLOWED DUE TO INCREASED OR DECREASED EXCAVATION, BEDDING, BORROW, BACKFILLING, COMPACTION, SPECIAL INSTALLATION REQUIREMENTS OR DISPOSAL OF EXCESS MATERIALS DUE TO USE OF ANY OF THE OPTIONAL PIPE MATERIALS. LIKEWISE, ADJUSTMENT IN THE QUANTITIES, PRICES AND PAYMENT WILL NOT BE ALLOWED DUE TO DIFFERENCES IN END TREATMENT SIZE OR TYPES, PIPE LENGTH, ALTERNATE JOINTING AND CONNECTING MATERIAL, SADDLES, CRADLES, FILTER FABRICS, SHORING OR SIMILAR FEATURES DUE TO THE USE OF AN OPTIONAL MATERIAL OTHER THAN THE "PLOTTED" OPTION.
4. IF ADJUSTMENTS ARE REQUIRED DUE TO PLAN ERRORS OR OMISSIONS OR AUTHORIZED FIELD CHANGES, THE "PLOTTED" MATERIAL AND NOT THE MATERIAL ELECTED BY THE CONTRACTOR WOULD BE USED TO ESTABLISH NEW PAY QUANTITIES.
5. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IN WRITING AS TO WHICH OPTIONAL PIPE MATERIALS HE CHOOSES TO USE AT THE PRECONSTRUCTION CONFERENCE. ONCE IDENTIFIED THE CONTRACTOR MAY NOT CHANGE PIPE MATERIAL SELECTED WITHOUT THE APPROVAL OF THE ENGINEER.
6. CONCRETE FOR CONCRETE JACKETS OR COLLARS MUST BE CURED PRIOR TO BACKFILLING.
7. VERTICAL DRAINS AND GUTTER DRAINS ARE PAID FOR UNDER PAY ITEM NO. 430-173-125.

OPTIONAL MATERIALS TABULATION

STR. NO.	DSL (Years)	SIZE (IN)	LENGTH (FT)	PLOTTED	MATERIAL & THICKNESS	FL (FT)	FL (FT)	AS BUILT	REMARKS
		15		X	SRCP CLASS II				
					SRAP 16 GA				REINFORCED CONCRETE
		18		X	SRCP CLASS II				
					SRAP 16 GA				SPIRAL RIB ALUMINUM
		24		X	SRCP CLASS II				
					SRAP 16 GA				
		30		X	SRCP CLASS II				
					SRAP 14 GA				
		36		X	SRCP CLASS II				
					SRAP 12 GA				
		42		X	SRCP CLASS II				
		48		X	SRCP CLASS II				
					SRAP 12 GA				
		14x23		X	SRCP CLASS II				
		19x30		X	SRCP CLASS II				
		72		X	SRCP CLASS II				
					CAP 10 GA				CORRUGATED ALUMINUM
VERTICAL DRAINS		18		X	F949 PVC				
					STEEL PIPE				
GUTTER DRAINS		18		X	CAP 16 GA				
		60		X	CAP 16 GA (3" X 1")				

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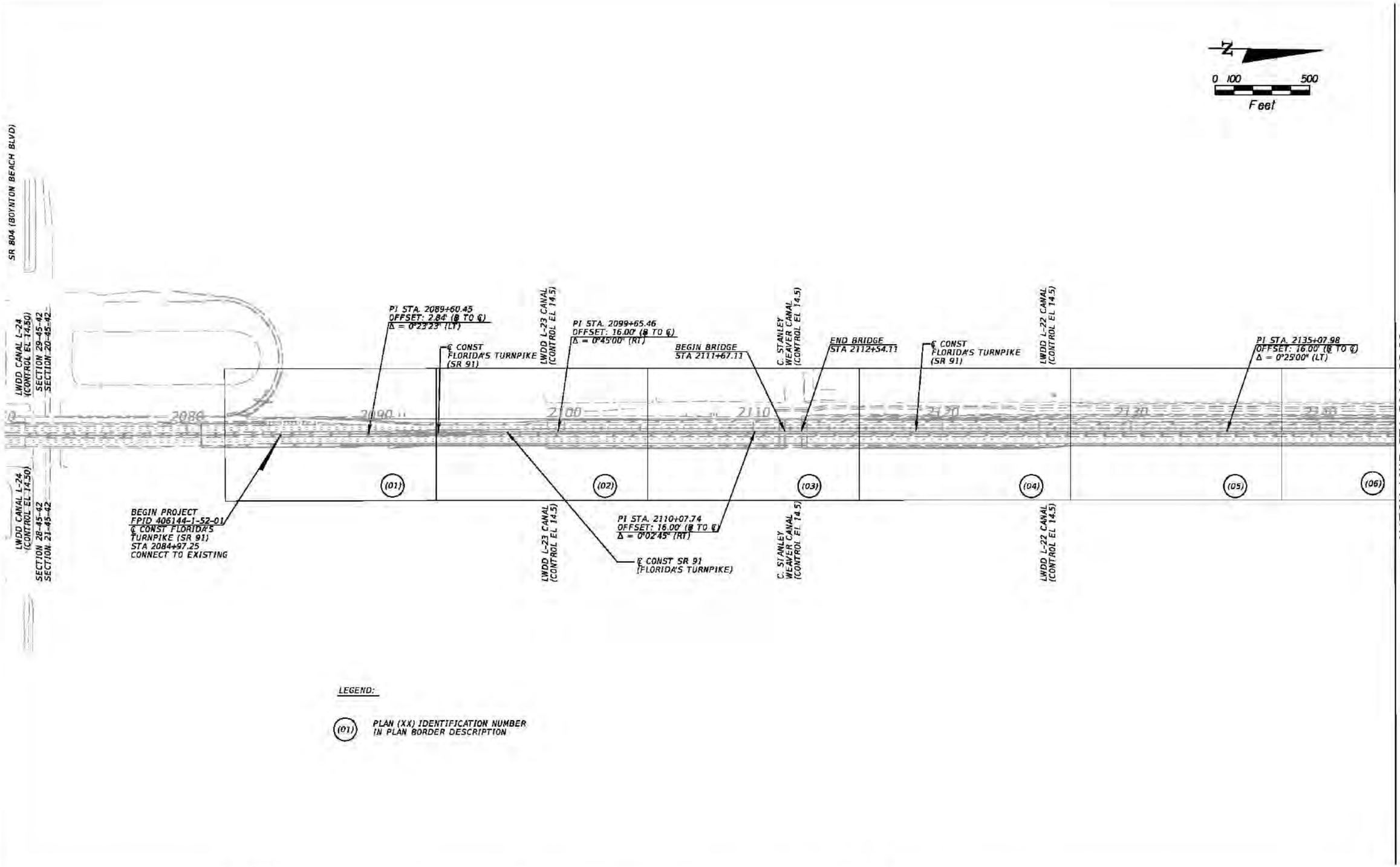
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

OPTIONAL MATERIALS TABULATION

SHEET NO. 45



LEGEND:

(01) PLAN (XX) IDENTIFICATION NUMBER IN PLAN BORDER DESCRIPTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

PROJECT LAYOUT (01)

SHEET NO.
46

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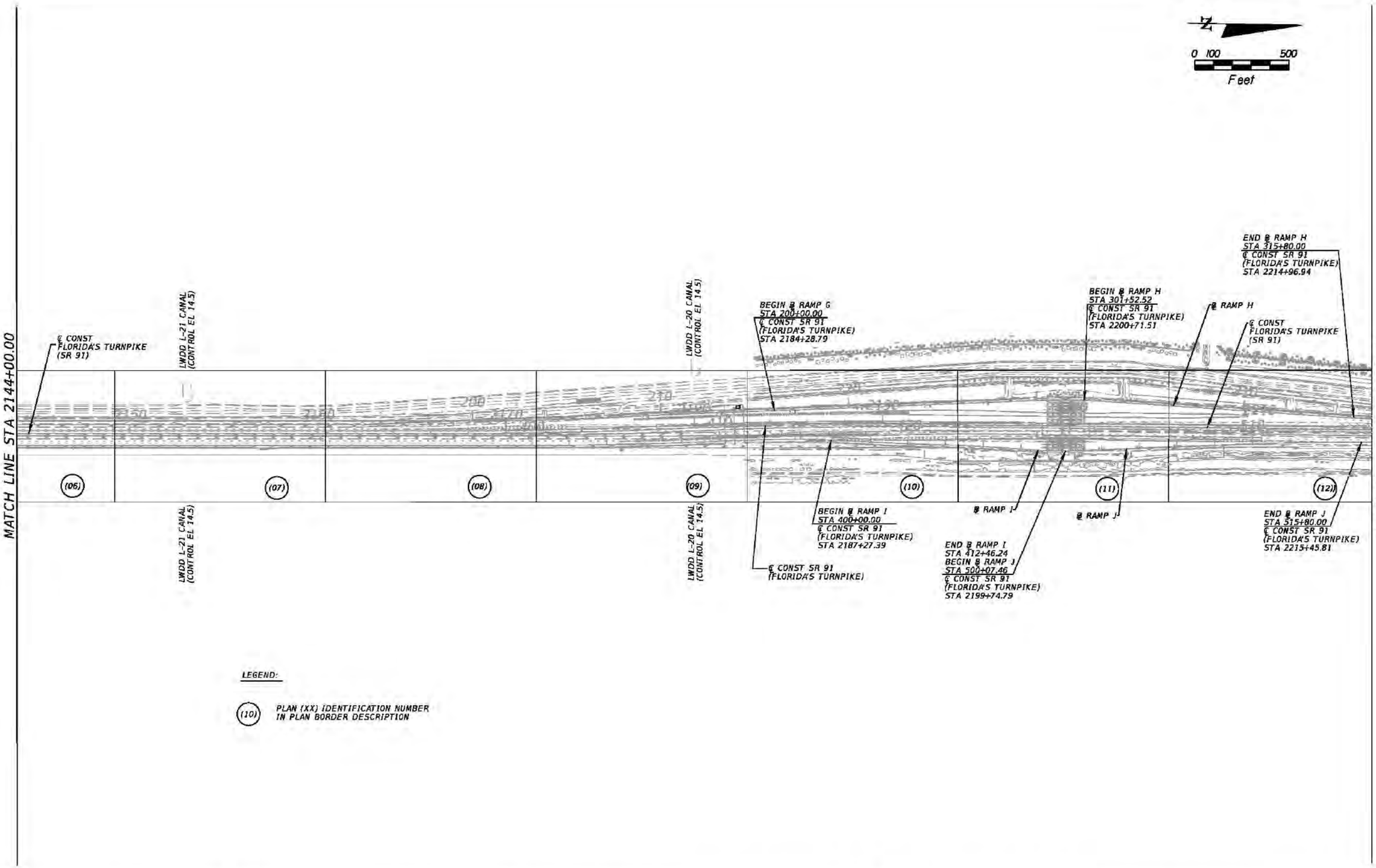

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

PROJECT LAYOUT (02)

SHEET NO.
47

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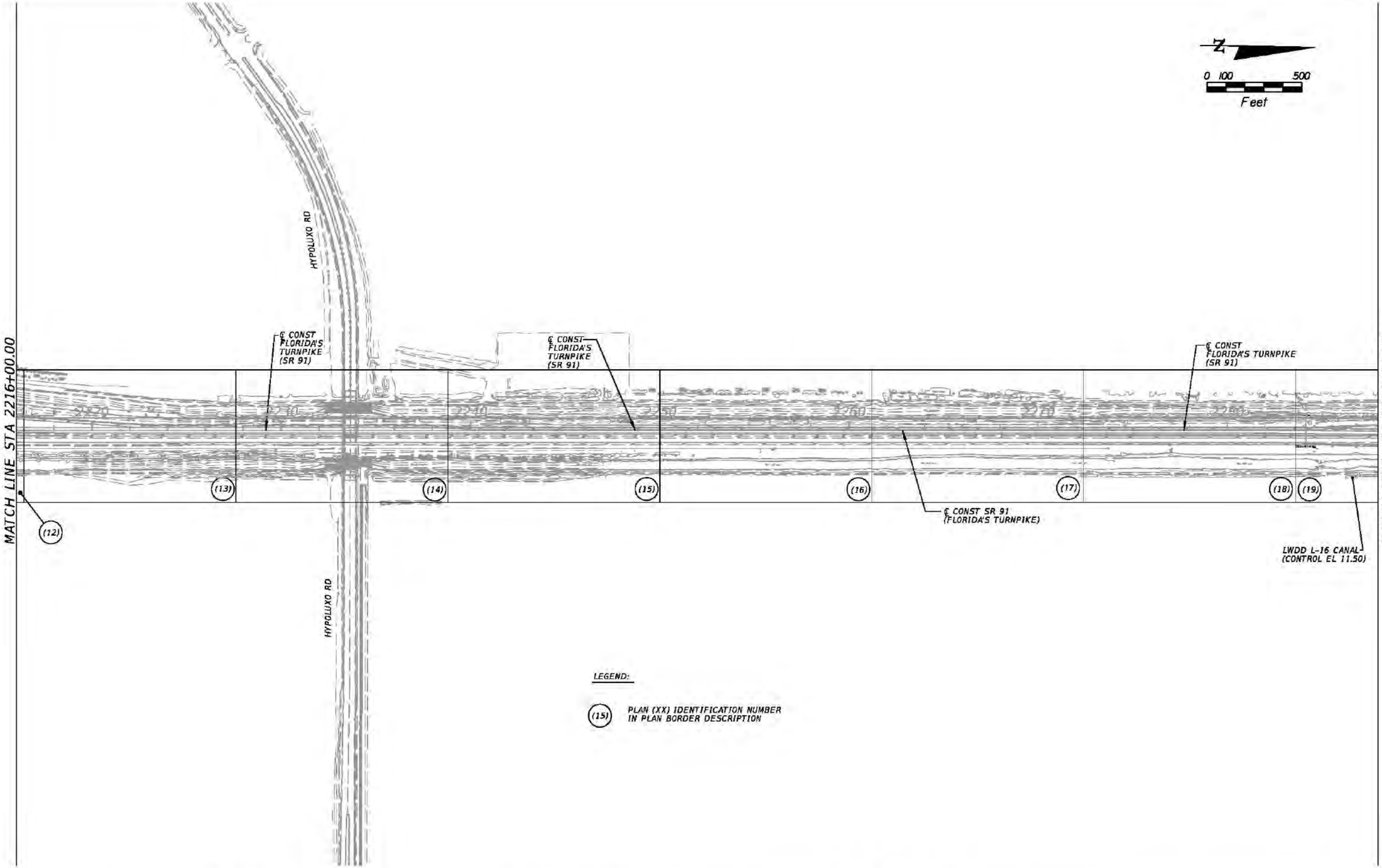

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

PROJECT LAYOUT (03)

SHEET NO.
48

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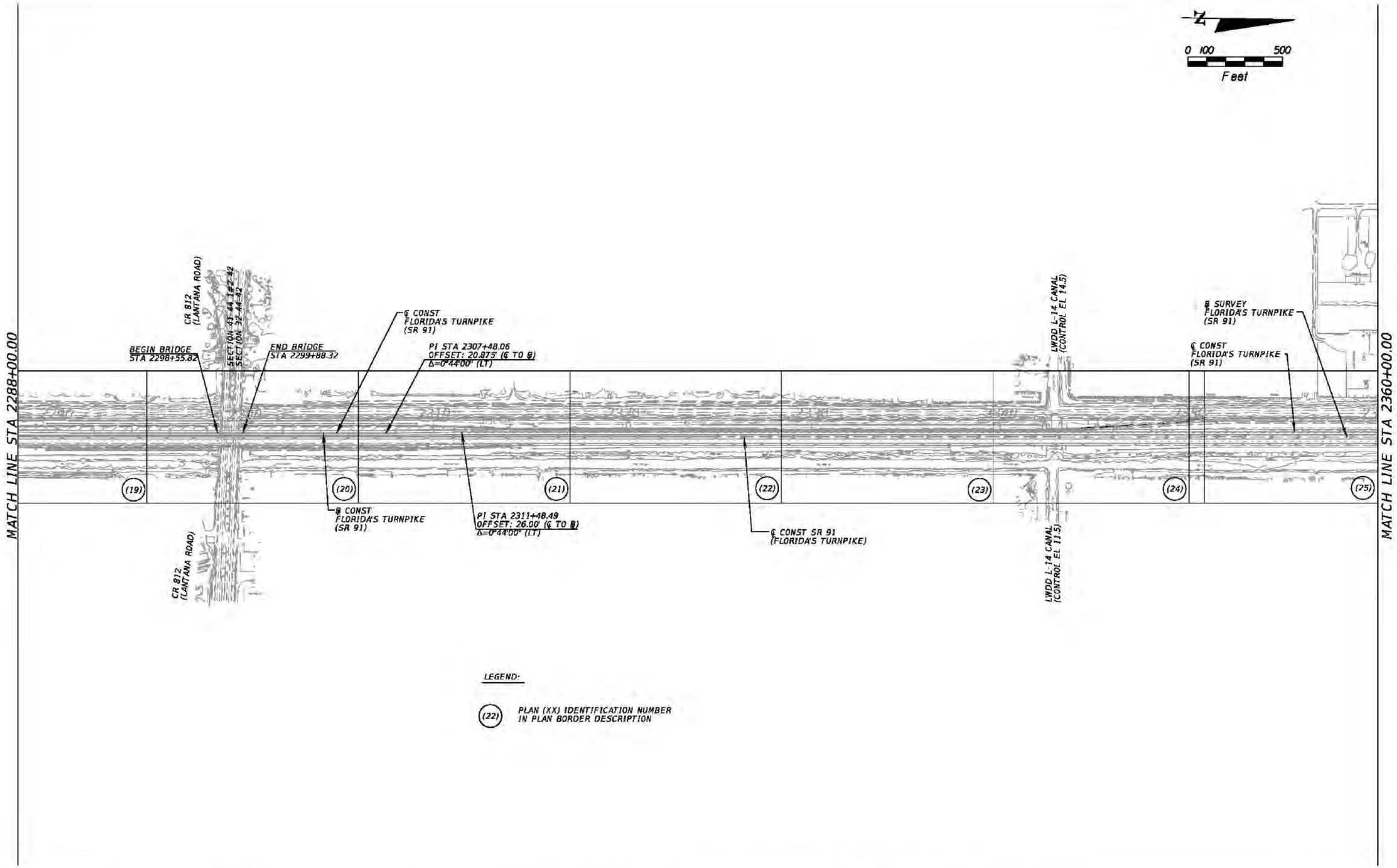

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

PROJECT LAYOUT (04)

SHEET NO. 49

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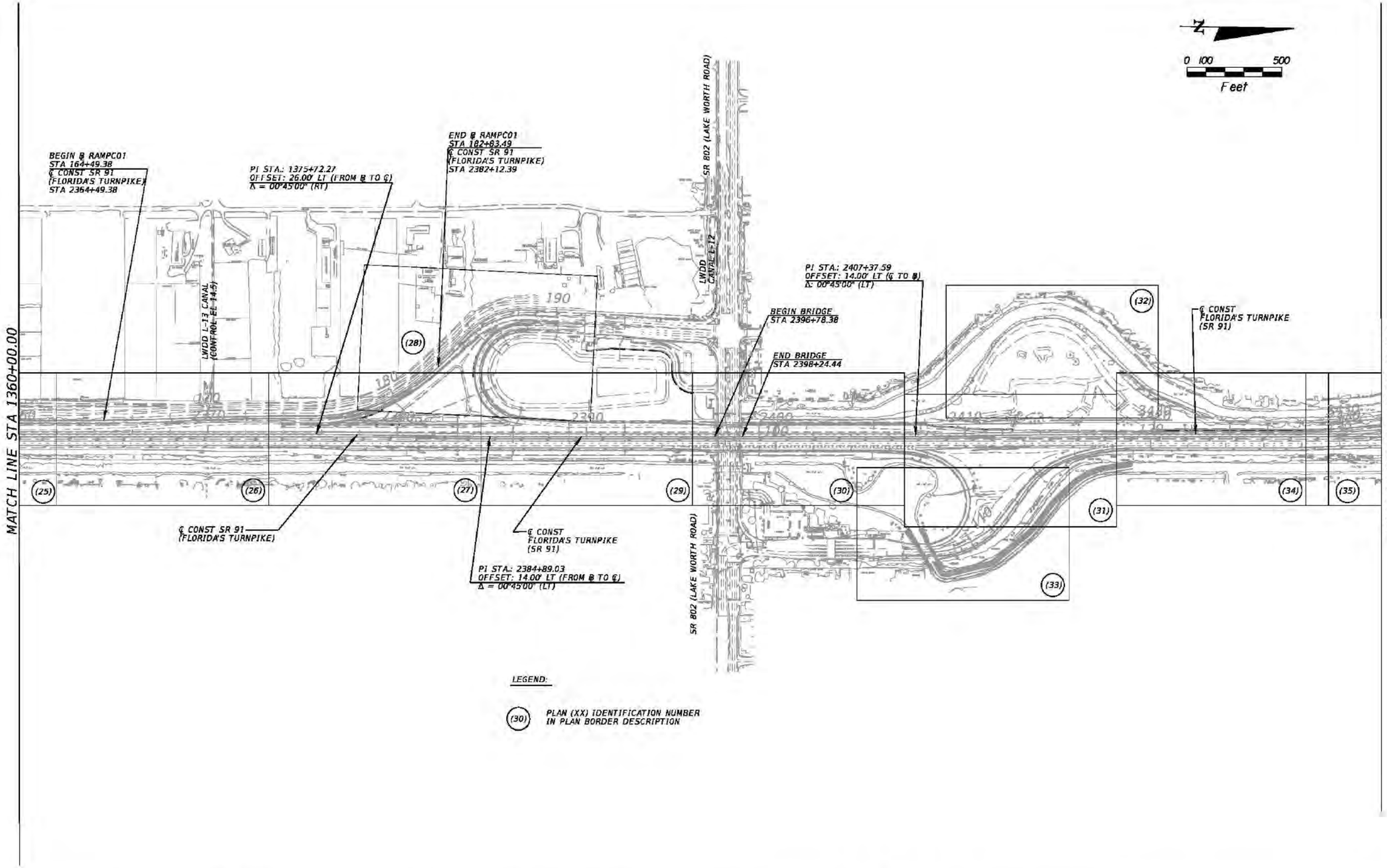

REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

PROJECT LAYOUT (05)

SHEET NO.
50

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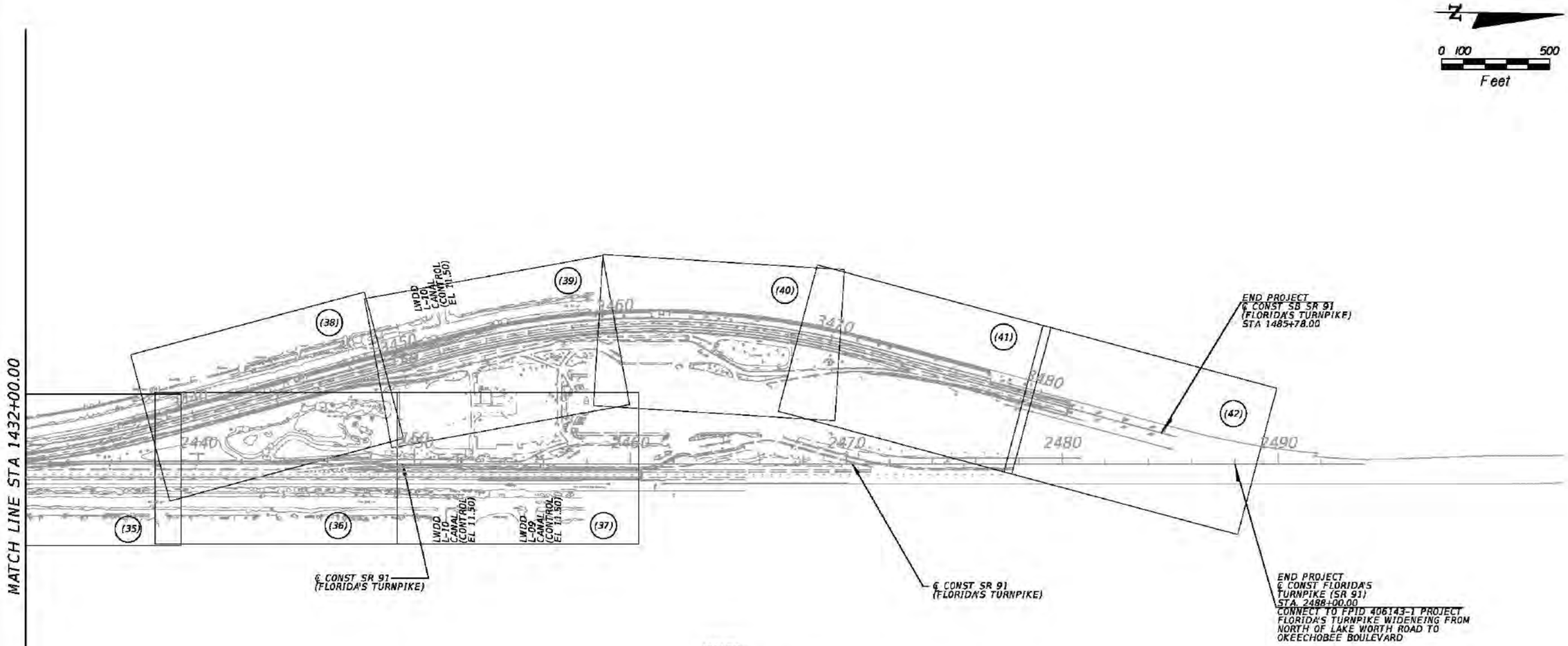

LEGEND:

(40) PLAN (XX) IDENTIFICATION NUMBER IN PLAN BORDER DESCRIPTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
91	PALM BEACH	406144-1-52-01

PROJECT LAYOUT (06)

SHEET NO. 51

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CURVE DATA

LINE	CURVE NO.	CONTROL POINT	STATION	COORDINATES NORTH	COORDINATES EAST	Δ	D	T	L	R	e	DESIGN SPEED (MPH)	TIE AND REMARKS
℄ CONST SR 91 (FLORIDA'S TURNPIKE)	CL01-3	CC		797532.7074	857964.9143	1° 29' 19.14" (LT)	0° 05' 00.00"	893.2395	1786.3785	68754.9354	NC	70.0	
		PC	2062+13.71	797452.6691	926719.8032								
		PI	2071+06.95	798345.9080	926720.8430								
		PT	2080+00.09	799238.8724	926698.6771								
	CL01-16	CC		807631.4757	902724.3669	2° 37' 50.76" (LT)	0° 14' 26.66"	546.4912	1092.7904	23800.0000	NC	70.0	
		PC	2168+18.32	808055.2162	926520.5945								
		PI	2173+64.82	808601.6208	926510.8646								
		PT	2179+11.12	809147.0029	926476.0654								
	CL01-17	CC		810611.5881	949429.3873	3° 23' 27.15" (RT)	0° 14' 56.80"	680.7910	1361.1845	23000.0000	NC	70.0	
		PC	2179+11.12	809147.0029	926476.0654								
		PI	2185+91.91	809826.4122	926432.7142								
		PT	2192+72.30	810507.1962	926429.6243								
℄ SB ROADWAY (FLORIDA'S TURNPIKE)	CLSB01-3	CC		833957.2434	922006.4856	15° 00' 00.00" (LT)	1° 25' 30.97"	529.2430	1052.4335	4020.0000	0.052	70.0	
		PC	3427+97.14	834028.1072	926025.8609								
		PI	3433+26.38	834557.2680	926016.5315								
		PT	3438+49.57	835065.9835	925870.5631								
	CLSB01-6	CC		837400.9922	929186.9022	30° 00' 00.00" (RT)	1° 29' 43.09"	1026.7059	2006.2832	3831.7187	0.054	70.0	
		PC	3451+79.35	836344.1812	925503.8031								
		PI	3462+06.05	837331.0646	925220.6315								
		PT	3471+85.63	838327.3165	925468.8393								
℄ RAMP C	RAMPC01-1	CC		827545.9872	918451.9497	2° 48' 44.04" (LT)	0° 45' 00.15"	187.5091	374.9429	7639.0000	RC	55.0	
		PC	164+49.38	827680.6461	926089.7628								
		PI	166+36.89	827868.1260	926086.4574								
		PT	168+24.32	828055.2180	926073.9577								
	RAMPC01-2	CC		828819.0976	937507.4685	2° 48' 44.04" (RT)	0° 30' 00.02"	281.2759	562.4388	11459.0000	NC	55.0	
		PC	168+24.32	828055.2180	926073.9577								
		PI	171+05.60	828335.8682	926055.2073								
		PT	173+86.76	828617.1004	926050.2490								
	RAMPC01-5	CC		828777.9858	925092.2641	43° 08' 08.06" (LT)	5° 59' 58.41"	377.4903	718.9791	955.0000	0.082	45.0	
		PC	175+64.51	828794.8204	926047.1157								
		PI	179+42.00	829172.2520	926040.4614								
		PT	182+83.49	829443.1285	925777.5453								
℄ RAMP E	RAMPE01-3	CC		836336.2239	927915.5400	10° 27' 28.42" (RT)	2° 29' 59.34"	209.7560	418.3466	2292.0000	0.041	35.0	
		PC	145+13.11	835704.0766	925712.4403								
		PI	147+22.87	835905.6968	925654.5883								
		PT	149+31.46	836114.4687	925634.2940								
℄ RAMP F	RAMPF01-3	CC		835134.2300	917546.0400	2° 58' 50.67" (LT)	0° 40' 30.93"	220.7600	441.4200	8485.0000	RC	55.0	
		PC	140+53.00	835283.8100	926029.7300								
		PI	142+73.76	835504.5300	926025.8300								
		PT	144+94.42	835724.7600	926010.4700								
	RAMPF01-6	CC		836306.7200	934310.0900	3° 22' 12.12" (RT)	0° 41' 19.14"	244.7500	489.3700	8320.0000	NC	45.0	
		PC	144+97.35	835727.6800	926010.2700								
		PI	147+42.10	835971.8400	925993.2300								
		PT	149+86.72	836216.5800	925990.5800								
℄ RAMP G	RAMPG01-1	CC		807789.9900	911456.9300	3° 09' 44.48" (LT)	0° 22' 55.10"	414.0600	827.9000	15000.0000	NC	55.0	
		PC	200+00.00	808057.0500	926454.5500								
		PI	204+14.06	808471.0400	926447.1800								
		PT	208+27.90	808884.0000	926416.9800								
	RAMPG01-2	CC		810564.9800	949403.6000	1° 56' 03.52" (RT)	0° 14' 54.94"	389.0900	778.1000	23048.0000	NC	55.0	
		PC	208+27.90	808884.0000	926416.9800								
		PI	212+16.99	809272.0500	926388.6000								
		PT	216+06.01	809660.8400	926373.3400								

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
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1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

CURVE DATA AND COORDINATES (01)

SHEET NO. 52

CURVE DATA

LINE	CURVE NO.	CONTROL POINT	STATION	COORDINATES NORTH	COORDINATES EAST	Δ	D	T	L	R	e	DESIGN SPEED (MPH)	TIE AND REMARKS
	RAMPI01-1	CC		807964.2500	903570.5800	2° 23' 39.82" (LT)	0° 14' 56.34"	480.9100	961.6700	23012.0000	NC	55.0	
		PC	400+00.00	808373.9600	926578.9300								
		PI	404+80.91	808854.7900	926570.3700								
		PT	409+61.67	809334.8400	926541.7200								
	RAMPI01-2	CC		810701.8600	949452.9800	0° 32' 37.30" (RT)	0° 14' 58.68"	108.9000	217.8000	22952.0000	NC	55.0	
		PC	409+61.67	809334.8400	926541.7200								
		PI	410+70.57	809443.5500	926535.2400								
		PT	411+79.47	809552.3100	926529.7800								
	RAMPI01-3	CC		809862.8400	932722.0000	3° 48' 21.59" (RT)	0° 55' 26.85"	206.0000	411.8500	6200.0000	RC	45.0	
RAMP I		PC	411+79.47	809552.3100	926529.7800								
		PI	413+85.47	809758.0500	926519.4700								
		PT	415+91.32	809964.0200	926522.8300								
	RAMPI01-4	CC		809862.8400	932722.0000	1° 30' 27.54" (RT)	0° 55' 26.85"	81.5800	163.1400	6200.0000	RC	45.0	
		PC	415+92.05	809964.7500	926522.8400								
		PI	416+73.62	810046.3200	926524.1800								
		PT	417+55.19	810127.8200	926527.6700								
	RAMPI01-5	CC		810619.3200	915038.1800	2° 38' 21.49" (LT)	0° 29' 53.61"	264.9200	527.7400	11500.0000	NC	35.0	
		PC	417+55.19	810127.8200	926527.6700								
		PI	420+20.11	810392.4900	926538.9900								
		PT	422+84.93	810657.4100	926538.1100								
	RAMPJ01-5	CC		813314.3600	949477.1200	1° 58' 19.24" (RT)	0° 14' 56.80"	395.8500	791.6200	23000.0000	NC	35.0	
RAMP J		PC	507+88.46	811990.1300	926515.2700								
		PI	511+84.31	812385.3200	926492.4800								
		PT	515+80.08	812781.0600	926483.3000								
	RAMPK01-3	CC		838310.2338	926947.7769	15° 07' 05.14" (RT)	4° 5' 33.20"	185.7815	369.4047	1400.0000	0.043	35.0	
RAMP K		PC	151+26.97	838185.0967	925553.3807								
		PI	153+12.75	838370.1346	925536.7749								
		PT	154+96.37	838553.0993	925569.0034								

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

CURVE DATA AND COORDINATES (02)

SHEET NO. 53

GENERAL NOTES

1. BENCH MARK DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88). ELEVATION 0.00 (NAVD '88) = ELEVATION 1.48 (NGVD '29)

2. STATIONS AND OFFSETS REFER TO THE TURNPIKE CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.

3. EXISTING DRAINAGE STRUCTURES, WITHIN CONSTRUCTION LIMITS, SHALL REMAIN UNLESS OTHERWISE NOTED.

4. WHERE A CONCRETE COLLAR/JACKET IS CALLED FOR IN THE PLANS, THE PIPE IS TO BE REMOVED TO THE NEAREST JOINT TO BEGIN THE PLACEMENT OF THE NEW PIPE; UNLESS IT WOULD REQUIRE ENCROACHMENT INTO THE ADJACENT LANE. IF A CONCRETE COLLAR/JACKET IS STILL NECESSARY, THE CONCRETE IS TO BE CURED AND INSPECTED TO ASSURE THE INTEGRITY OF THE COLLAR PRIOR TO PLACEMENT OF FILL MATERIAL. PIPE JOINTS MUST BE WRAPPED IN ACCORDANCE WITH INDEX 280. FILTER FABRICS USED TO WRAP PIPE JOINTS IN ACCORDANCE WITH SPECIFICATION 430 AND MUST BE TYPE D-3 WITH AN A.O.S. OF 70 TO 100.

5. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv,Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATIVE TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

6.

UTILITY OWNERS	CONTACT	TELEPHONE
AT&T (DISTRIBUTION)	CRAIG PETRIE	(407) 578-8000
COMCAST (BOCA/DELRAY)	GARTH BEDWARD	(561) 540-9263
PBC WATER UNTILITIES DEPARTMENT	ANTHONY SPRINGSTEEL	(561) 804-0973
FLORIDA PUBLIC UTILITIES (FPU)	FRANTZ FENELON	(561) 493-6081
FLORIDA GAS TRANSMISSION (FGT)	DALE BUTCHER	(561) 602-3702
FPL FIBERNET, LLC	JOSEPH E. SANCHEZ	(407) 838-7171
FPL (TRANSMISSION)	DANNY HASKETT	(305) 552-2931
FPL (DISTRIBUTION)	GEORGE BECK	(561) 904-3604
HOT WIRE COMMUNICATIONS	JOHN VANVLEET	(407) 742-2003
	PHIL GALLUB	(305) 219-0286

7. IN ACCORDANCE WITH FDOT SPECIFICATIONS 8-6.4, SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:

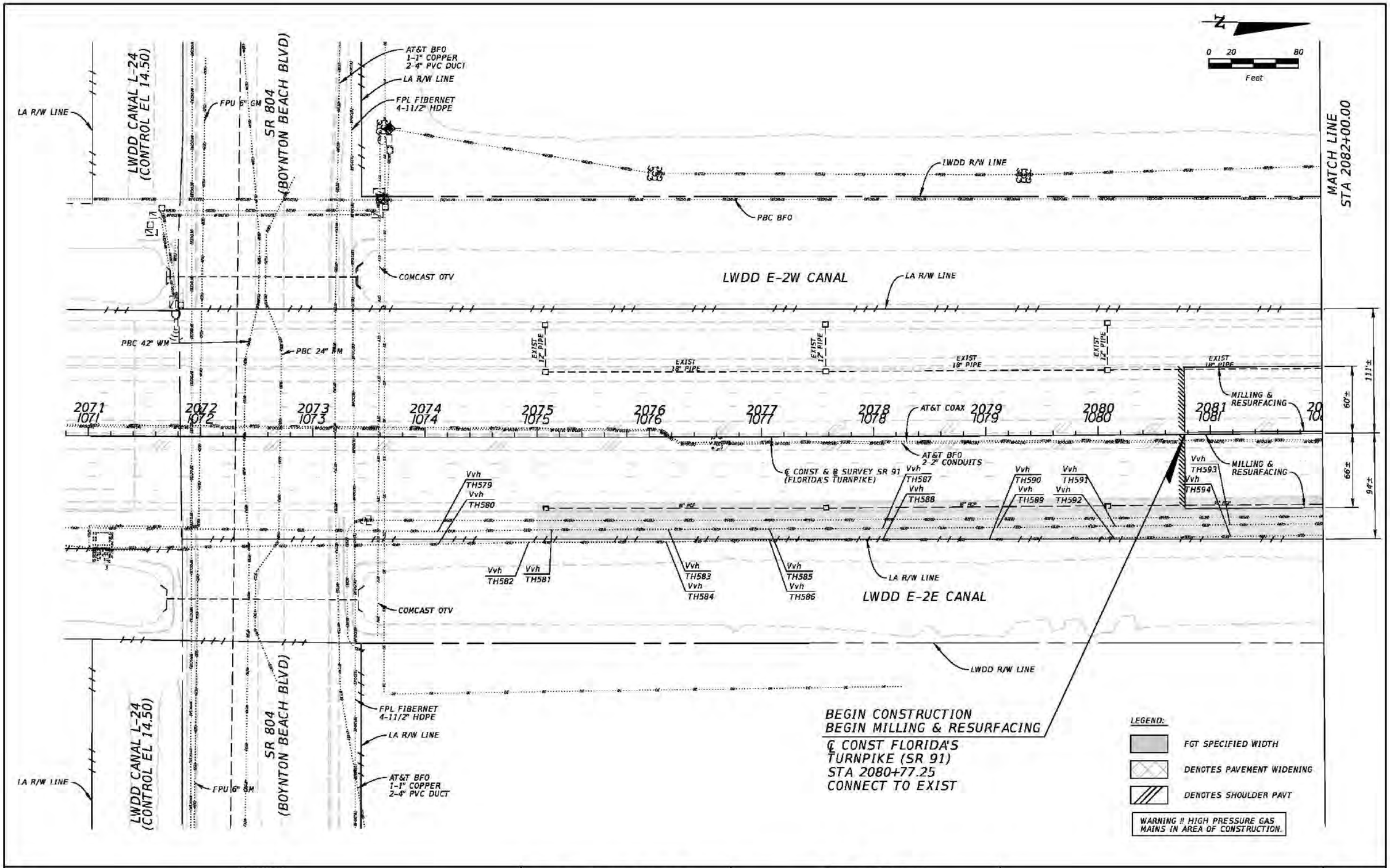
   A. WORKING DAY BEFORE MARTIN LUTHER KING JR.
   B. WORKING DAY BEFORE PRESIDENT'S DAY
   C. BEFORE / AFTER INDEPENDENCE DAY JULY -3 & JULY -5
   D. FRIDAY BEFORE EASTER
   E. FRIDAY BEFORE MEMORIAL DAY
   F. WEDNESDAY BEFORE THANKSGIVING

8. COORDINATE WITH TURNPIKE MAINTENANCE OFFICE, GIUSEPPE SCARINGI (TEL NO. 954-934-1226) FOR THE REMOVAL AND INSTALLATION OF HIGH TENSION CABLE BARRIER SYSTEM WITH SOCKETED POSTS AND END TERMINAL. THE EXISTING CABLE BARRIER SYSTEM IS A TEST LEVEL 3 (TL-3) GIBRALTAR CABLE BARRIER SYSTEMS. BARRIER WALL PER INDEX 415 AND TRAFFIC CONTROL SET UP PER INDEX 600 SERIES SHALL BE PROVIDED IN ABSENCE OF THE HIGH TENSION CABLE BARRIER SYSTEM DURING CONSTRUCTION TO PREVENT ERRANT VEHICLES FROM ENTERING ROADSIDE WATER HAZARDS.

9. COORDINATE WITH TURNPIKE MAINTENANCE ON THE DISPOSALE OF ANY DISMANTLED CABLE BARRIER SYSTEM.

10. ALL BOTTOM PROFILE ELEVATIONS AND CROSS SECTION ELEVATIONS FOR TREATMENT/ATTENUATION SWALES/DITCHES SHALL BE CONSTRUCTED TO WITHIN 0.1 FEET +/- OF THE VALUES SHOWN ON THE PLANS. ALSO, DITCH-BLOCK TOP ELEVATIONS AND/OR ANY LONGITUDINAL BERMS ADJACENT TO TREATMENT/ATTENUATION SWALES SHALL ALSO BE CONSTRUCTED WITHIN THIS EARTHWORK TOLERANCE.

11. "COORDINATE PROJECT INTERFACE AND CONSTRUCTION PHASING WITH ADJOINING PROJECTS FPID 437169-1 (PROJECT TO THE SOUTH) AND FPID 406143-1 (PROJECT TO THE NORTH)."



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (00)

SHEET NO.
55

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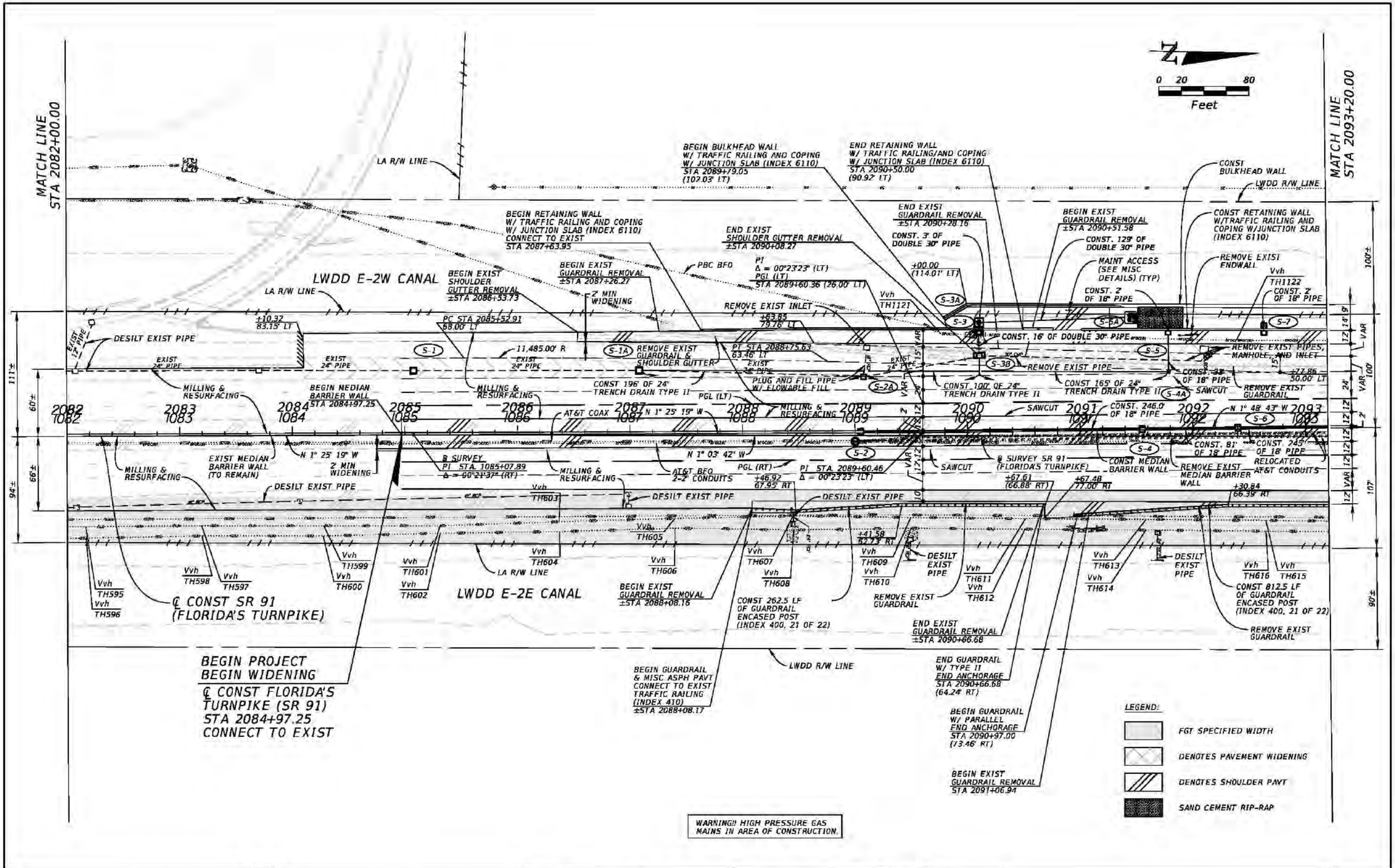

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (01)

SHEET NO. 56

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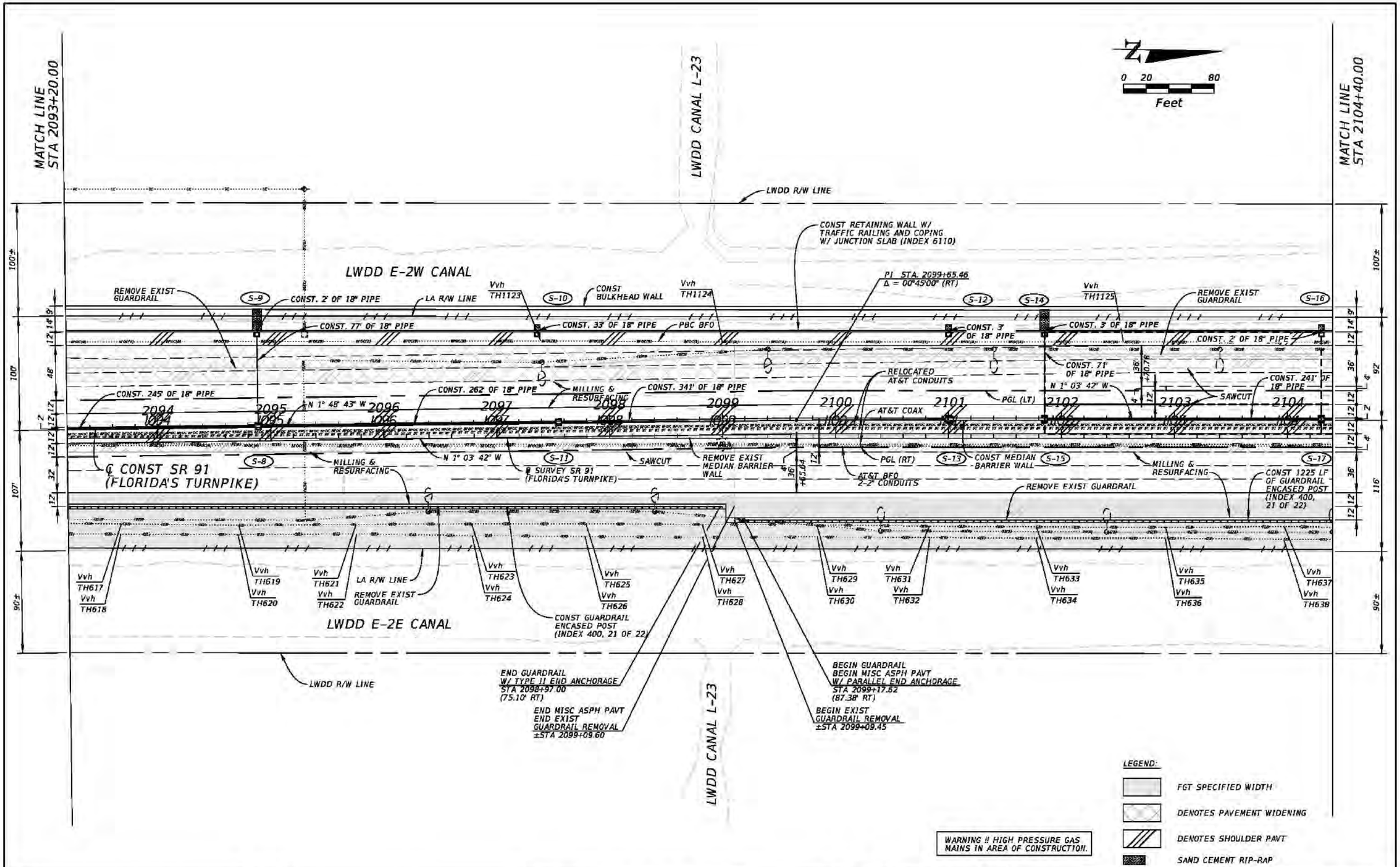

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (02)

SHEET NO. 57

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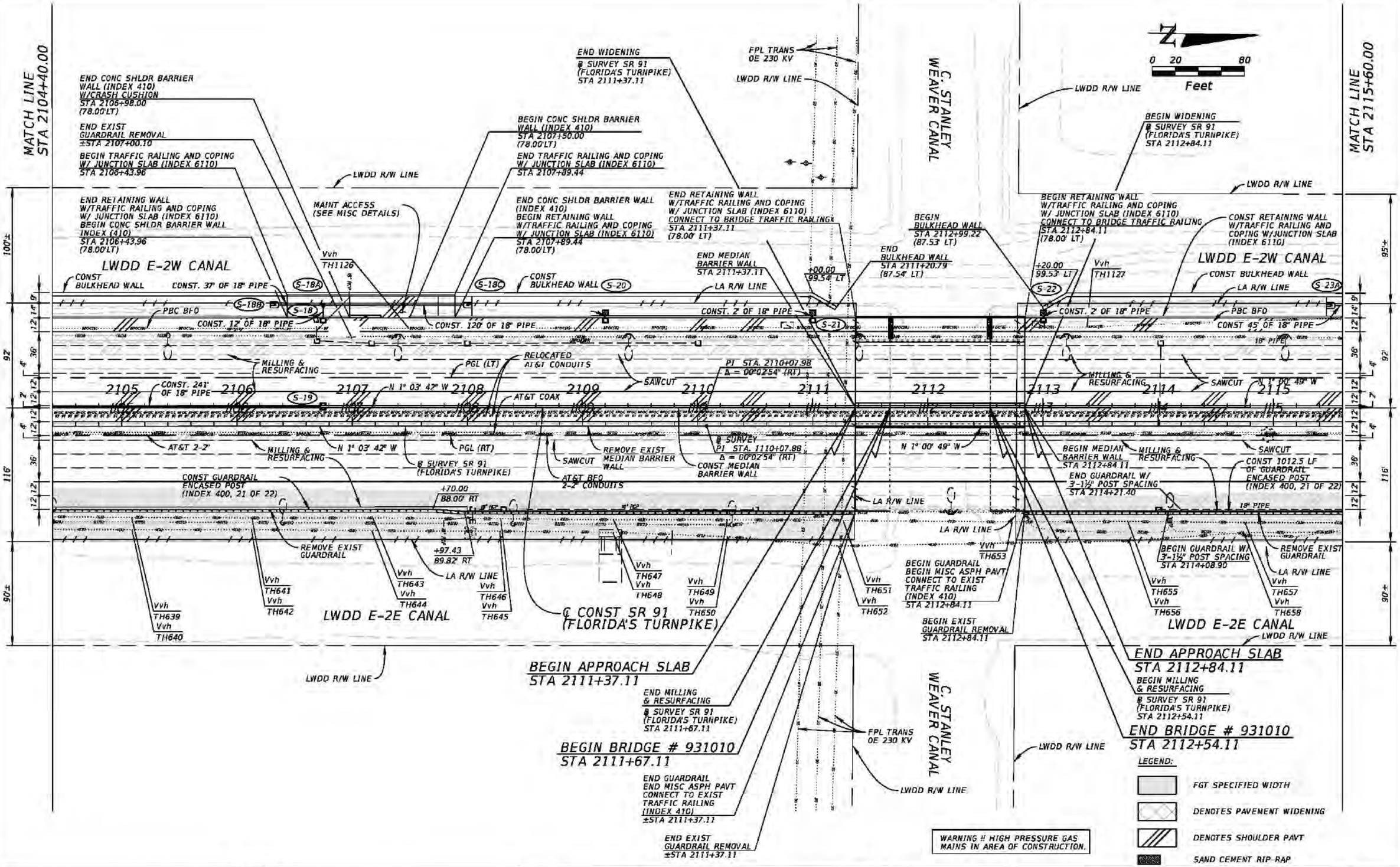

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (03)

SHEET NO. 58

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MATCH LINE STA 2115+60.00

MATCH LINE STA 2126+80.00

0 20 80 Feet

BEGIN TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110) STA 2115+60.82 (98.00' LT)

END RETAINING WALL W/TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110) BEGIN CONC SHLDR BARRIER WALL INDEX (410) STA 2115+60.82 (78.0'LT)

END CONC SHLDR BARRIER WALL (INDEX 410) W/CRASH CUSHION STA 2116+18.25 (78.00'LT)

END TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110) STA 2117+17.69 (98.00' LT)

END CONC SHLDR BARRIER WALL (INDEX 410) BEGIN RETAINING WALL W/TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110) STA 2117+17.69 (78.00'LT)

LWDD R/W LINE

MAINT ACCESS (SEE MISC DETAILS)

BEGIN CONC SHLDR BARRIER WALL (INDEX 410) STA 2116+70.25 (78.00'LT)

℄ CONST SR 91 (FLORIDA'S TURNPIKE)

LWDD E-2W CANAL

END EXIST GUARDRAIL REMOVAL ±STA 2125+10.61

BEGIN EXIST GUARDRAIL REMOVAL ±STA 2125+10.61

CONST. 11' OF 18" PIPE

PBC BFO

CONST BULKHEAD WALL

CONST RETAINING WALL W/TRAFFIC RAILING AND COPING JUNCTION SLAB (INDEX 6110)

LA R/W LINE

PBC BFO

Vvh TH1131

S-23B S-23C S-24 S-26 S-28 S-30

CONST. 124' OF 18" PIPE

CONST. 2' OF 18" PIPE

CONST. 2' OF 18" PIPE

CONST. 2' OF 18" PIPE

CONST. 2' OF 18" PIPE

18" PIPE

CONST 18" PIPE

S-23

CONST. 71' OF 18" PIPE

MILLING & RESURFACING

REMOVE EXIST GUARDRAIL

REMOVE EXIST GUARDRAIL

BEGIN EXIST GUARDRAIL REMOVAL STA 2115+86.49

89°56'11"

STA 2124+43.71

2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126

AT&T COAX

N 1° 00' 49" W

PGL(LT)

SAWCUT

CONST. 261' OF 18" PIPE

AT&T BFO 2-2" CONDUITS

REMOVE EXIST MEDIAN BARRIER WALL

S-25

N 1° 00' 49" W

PGL(RT)

S-27

MILLING & RESURFACING

S-29

CONST MEDIAN BARRIER WALL

CONST. 386' OF 18" PIPE

S-31

+00.00 90.00' RT

REMOVE EXIST DITCH BLOCK

RELOCATED AT&T CONDUITS

℄ SURVEY SR 91 (FLORIDA'S TURNPIKE)

CONST GUARDRAIL ENCASED POST (INDEX 400, 21 OF 22)

SAWCUT

REMOVE EXIST DITCH BLOCK

+00.00 88.00' RT

REMOVE EXIST GUARDRAIL

CONST 687.5 LF OF GUARDRAIL ENCASED POST (INDEX 400, 21 OF 22)

+30.00 88.00' RT

REMOVE EXIST GUARDRAIL

BEGIN GUARDRAIL W/ 3'-1½" POST SPACING STA 2122+08.90

+00.00 90.50' RT

+00.00 95.89' RT

+10.60 88.00' RT

18" PIPE

18" PIPE

DITCH BLOCK

24" PIPE

24" PIPE

LA R/W LINE

BEGIN EXIST GUARDRAIL REMOVAL ±STA 2123+08.62

Vvh TH659 Vvh TH660

Vvh TH661 Vvh TH662

Vvh TH663 Vvh TH664

LWDD E-2E CANAL

Vvh TH665 Vvh TH666

Vvh TH667 Vvh TH668

Vvh TH669 Vvh TH670

Vvh TH671 Vvh TH672

Vvh TH673 Vvh TH674

BEGIN GUARDRAIL W/ PARALLEL END ANCHORAGE STA 2123+08.62 (92.78' RT)

Vvh TH675 Vvh TH676

Vvh TH677

Vvh TH678

Vvh TH680

Vvh TH679

END EXIST GUARDRAIL REMOVAL ±STA 2122+92.29

END GUARDRAIL W/ 3'-1½" POST SPACING STA 2124+21.40

LWDD R/W LINE

END GUARDRAIL W/ 3'-1½" POST SPACING STA 2116+21.40

BEGIN GUARDRAIL W/ 3'-1½" POST SPACING STA 2116+08.90

END GUARDRAIL W/ 3'-1½" POST SPACING STA 2118+21.40

BEGIN GUARDRAIL W/ 3'-1½" POST SPACING STA 2118+08.90

END GUARDRAIL W/ 3'-1½" POST SPACING STA 2120+21.40

BEGIN GUARDRAIL W/ 3'-1½" POST SPACING STA 2120+08.90

END GUARDRAIL W/ 3'-1½" POST SPACING STA 2122+21.40

END GUARDRAIL W/ TYPE II END ANCHORAGE STA 2122+83.50 (88.00' RT)

BEGIN GUARDRAIL W/ 3'-1½" POST SPACING STA 2124+08.90

SECTION 21-45-42

SECTION 16-45-42

95± 92' 90± 116' 90'

LEGEND:

- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (04)

SHEET NO. 59

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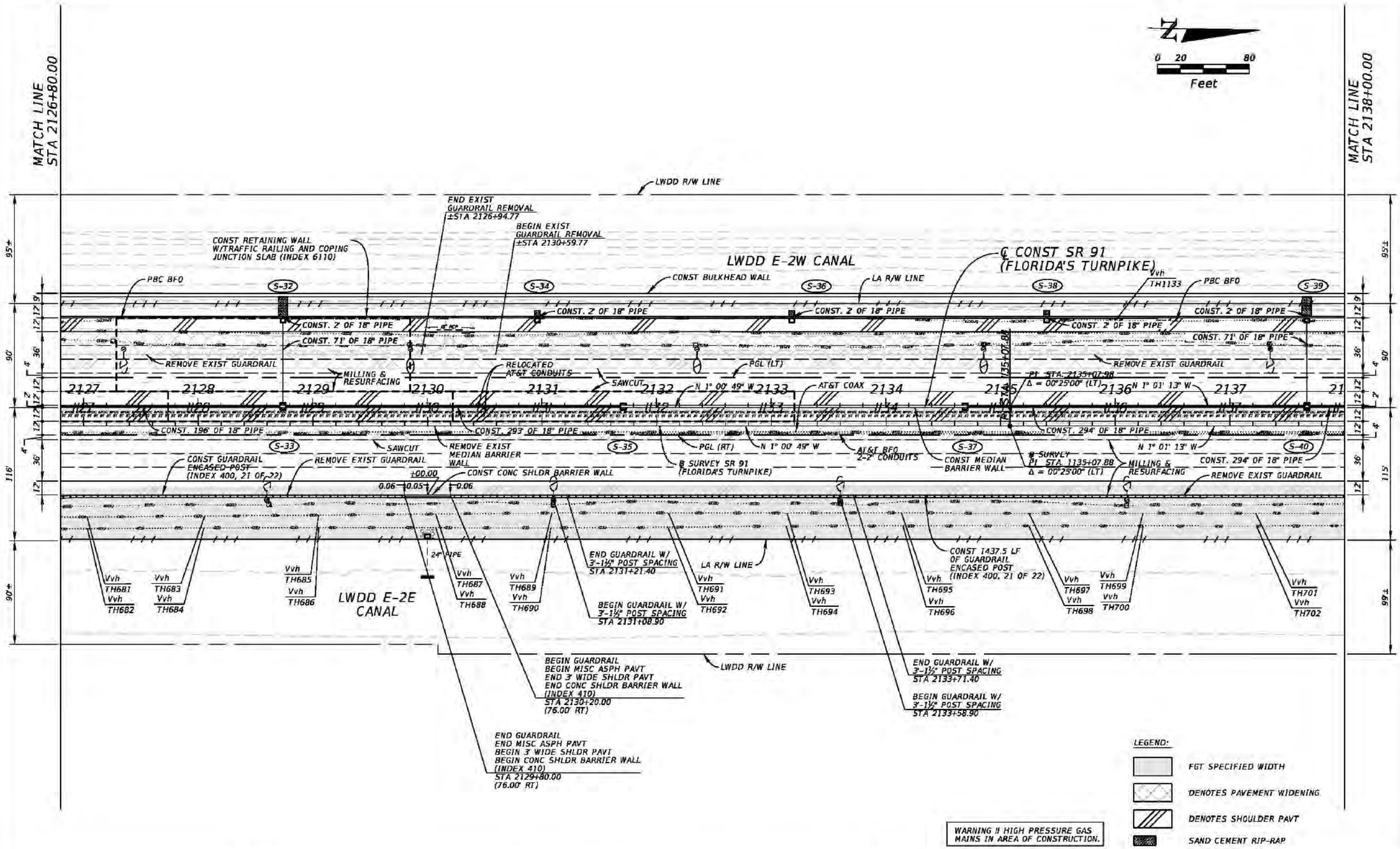

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (05)

SHEET NO. 60

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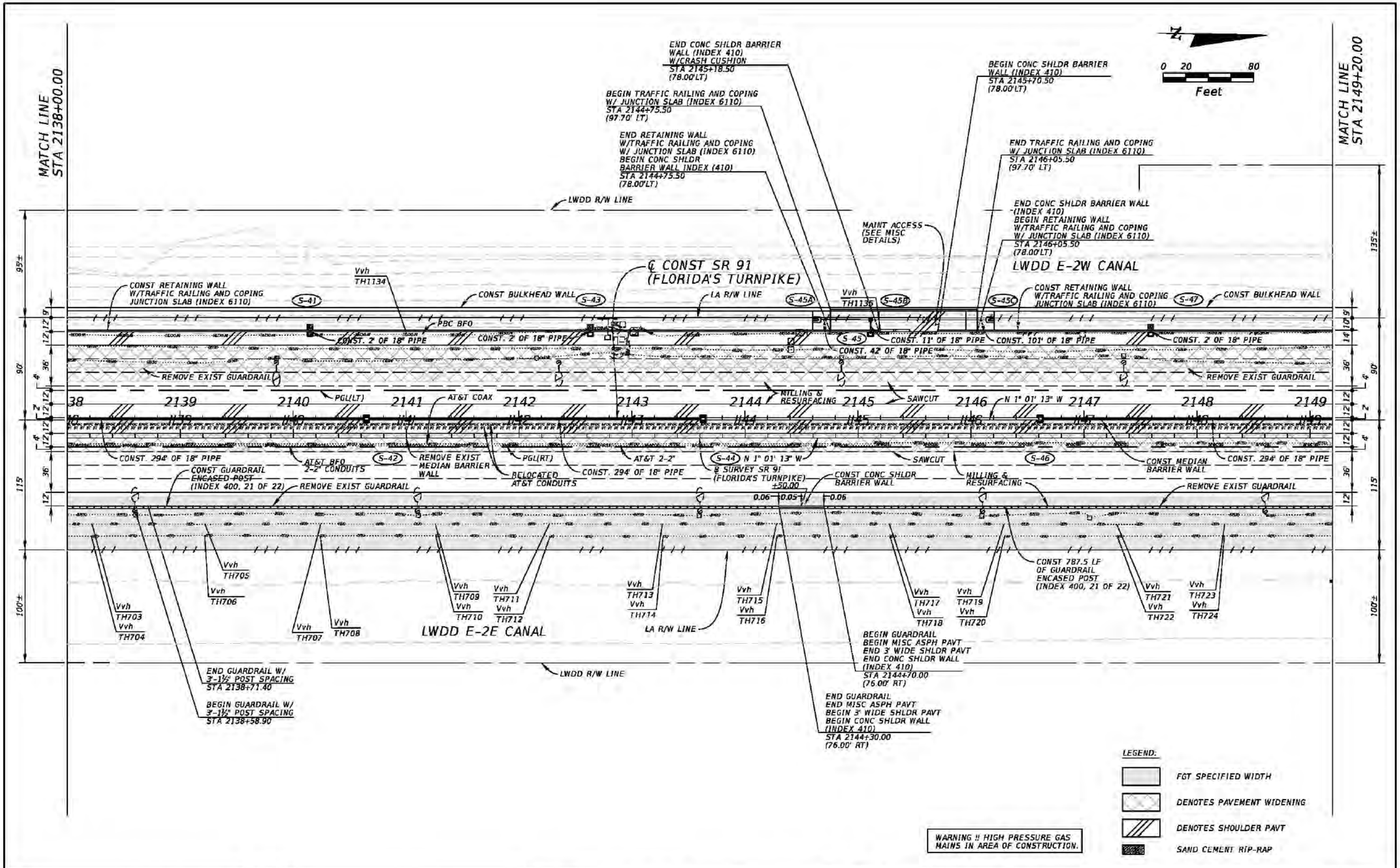

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (06)

SHEET NO. 61

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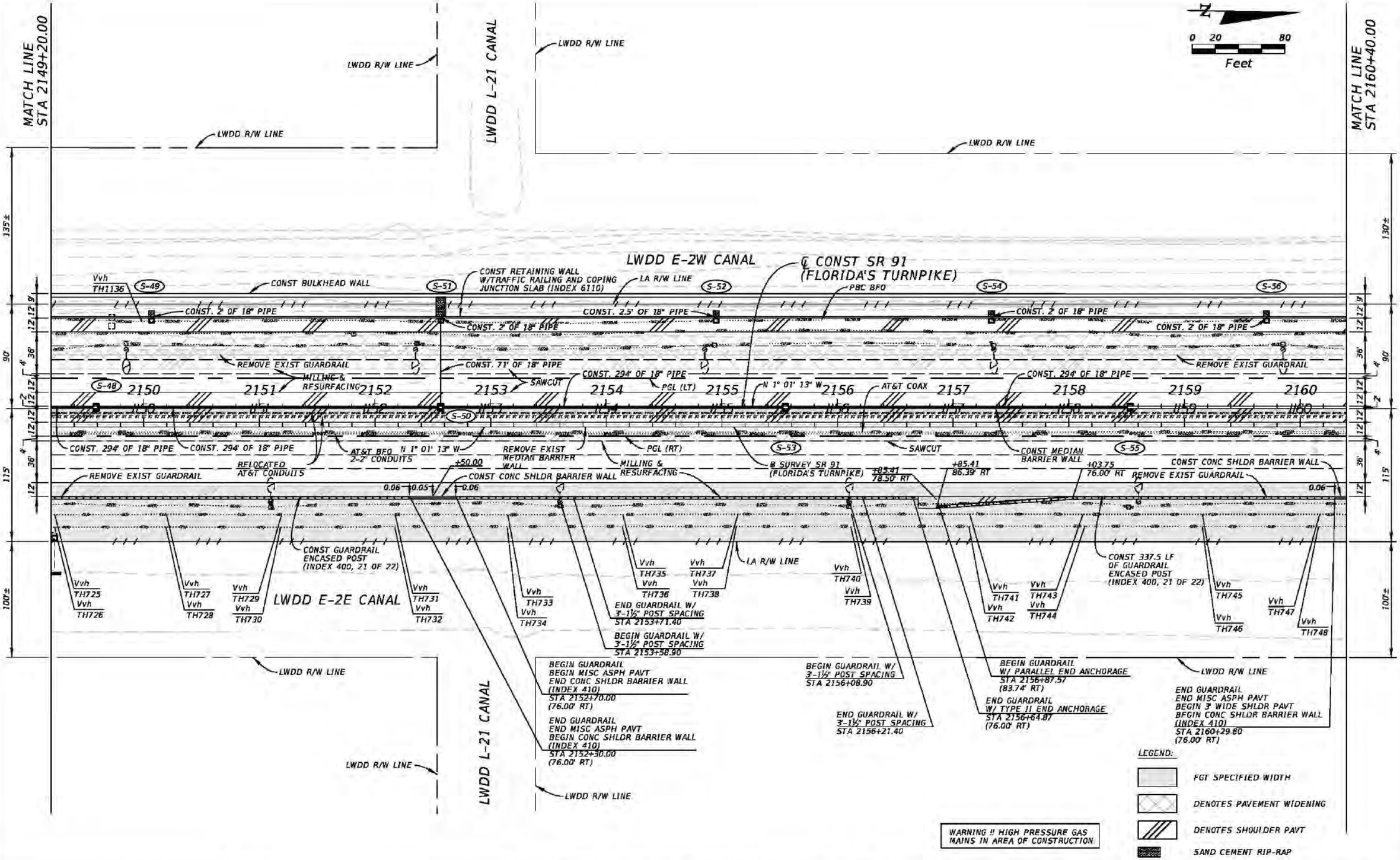

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (07)

SHEET NO. 62

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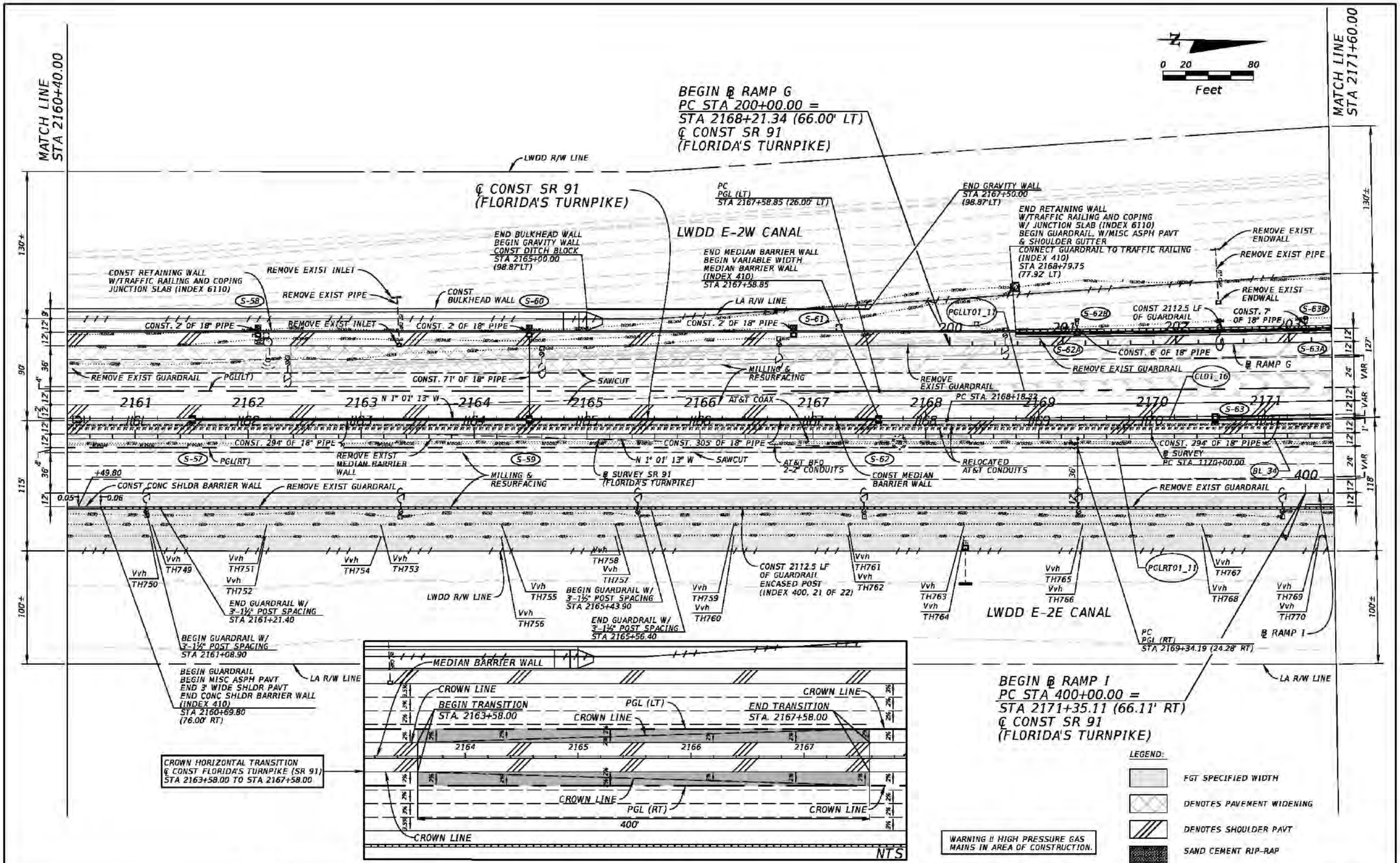

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (08)

SHEET NO.
63

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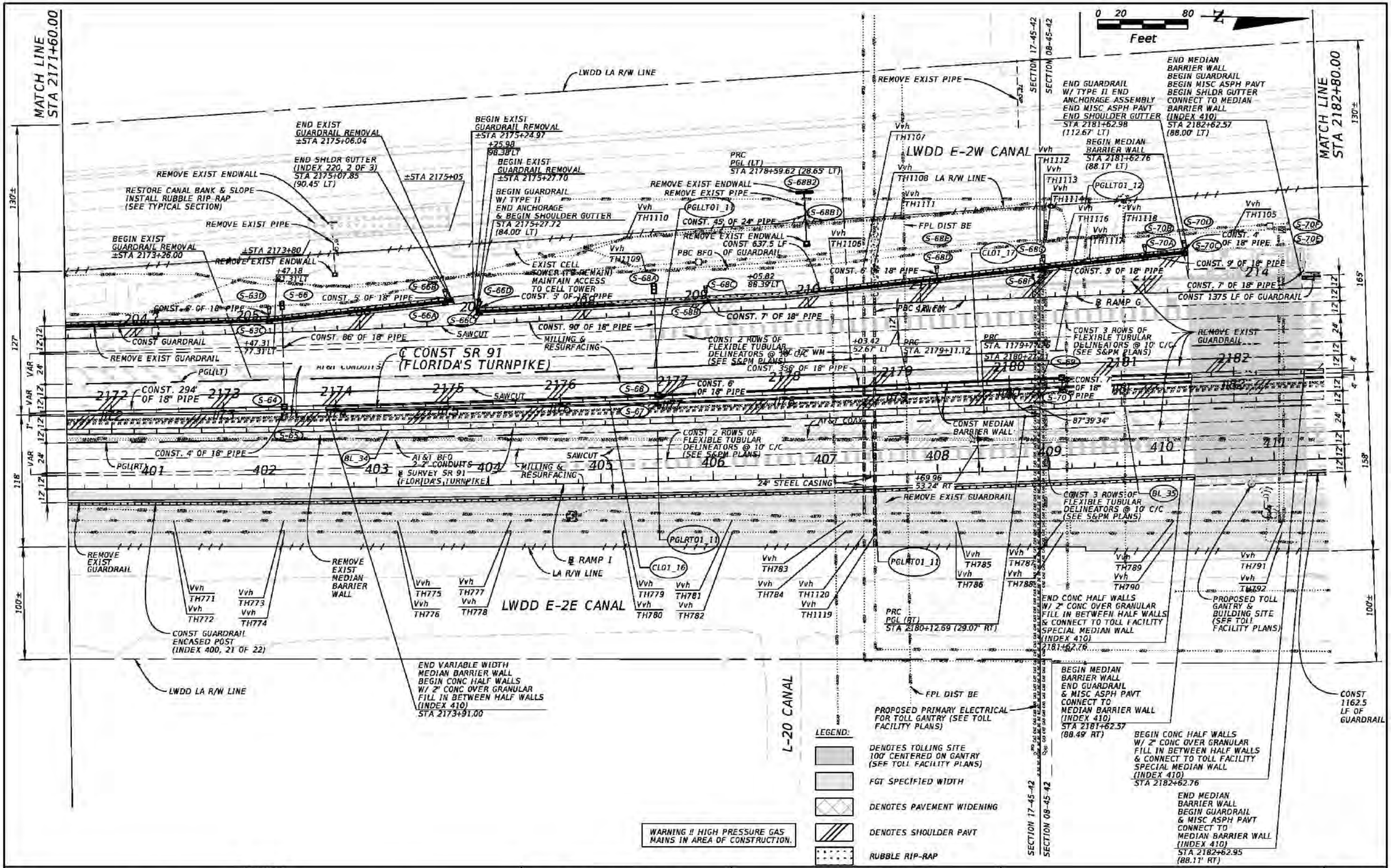

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Kimley-Horn and Associates, Inc.
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Hooi Gin Ng, P.E.
P.E. License No. 58123
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West Palm Beach, Florida 33411

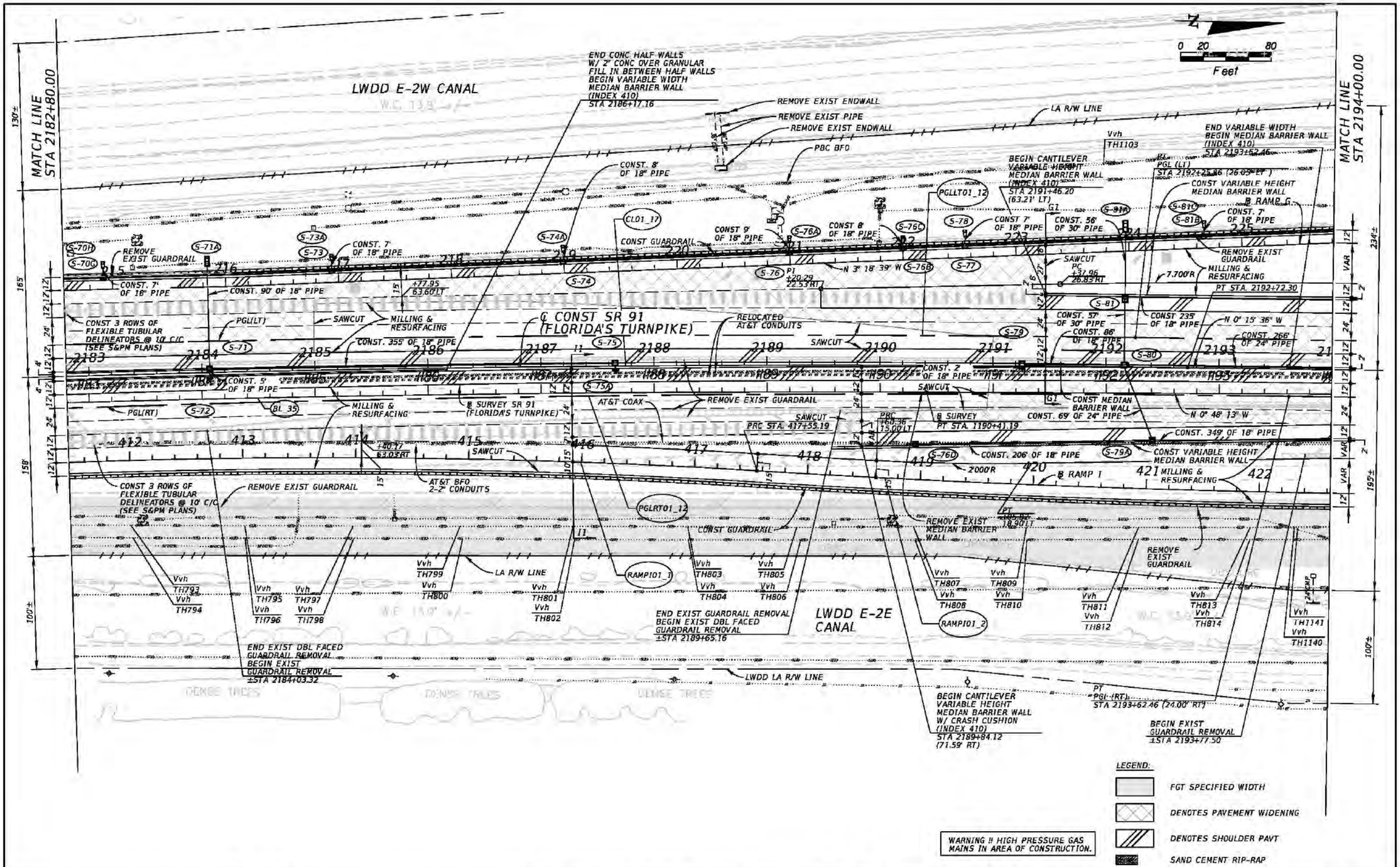
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (09)

SHEET NO. 64

Rob.Conklin 2/3/2017 3:48:59 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd10.dgn



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (10)

SHEET NO. 65

Rob.Conklin 2/3/2017 3:49:07 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd11.dgn

END ℄ RAMP G
STA 231+54.04
STA 2199+72.18 (138.49' LT)
℄ CONST SR 91
(FLORIDA'S TURNPIKE)

BEGIN ℄ RAMP H
STA 300+53.99 =
STA 2199+72.98 (138.68' LT)
℄ CONST SR 91
(FLORIDA'S TURNPIKE)

MATCH LINE STA 2194+00.00

MATCH LINE STA 2205+20.00

LWDD E-2W CANAL

LWDD E-2E CANAL

℄ CONST SR 91 (FLORIDA'S TURNPIKE)

END ℄ RAMP I
STA 428+38.28
BEGIN ℄ RAMP J
STA 500+07.46 =
STA 2199+74.80 (130.12' RT)
℄ CONST SR 91
(FLORIDA'S TURNPIKE)

Vvh TEST HOLES

1	TH1846	5	TH1850	9	TH1854	13	TH1858
2	TH1847	6	TH1851	10	TH1855	14	TH1859
3	TH1848	7	TH1852	11	TH1856		
4	TH1849	8	TH1853	12	TH1857		

NOTE: REFER TO TOLL FACILITY PLANS FOR LANTANA TOLL PLAZA MODIFICATIONS.

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

LEGEND:
- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (11)

SHEET NO. 66

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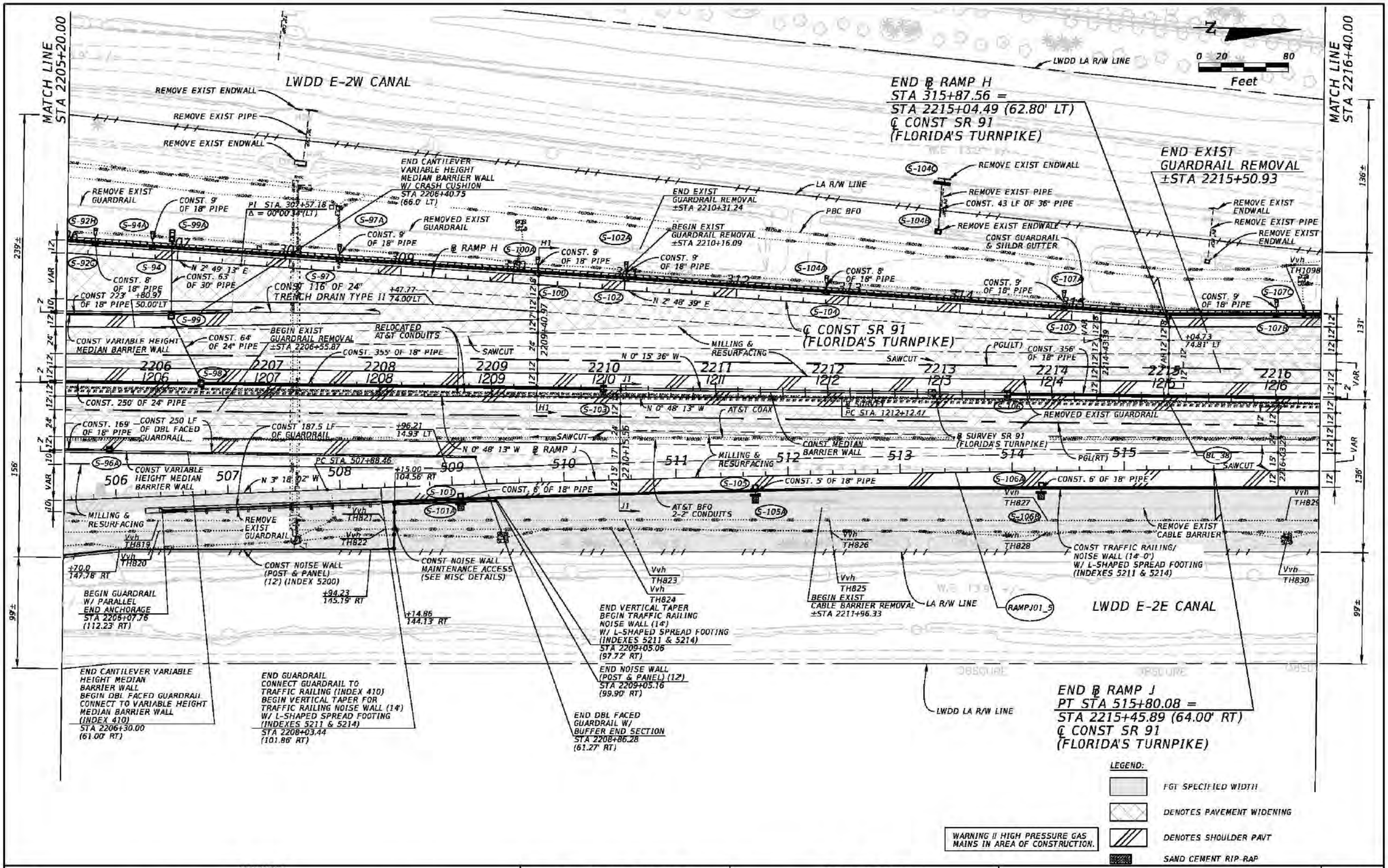

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (12)

SHEET NO. 67

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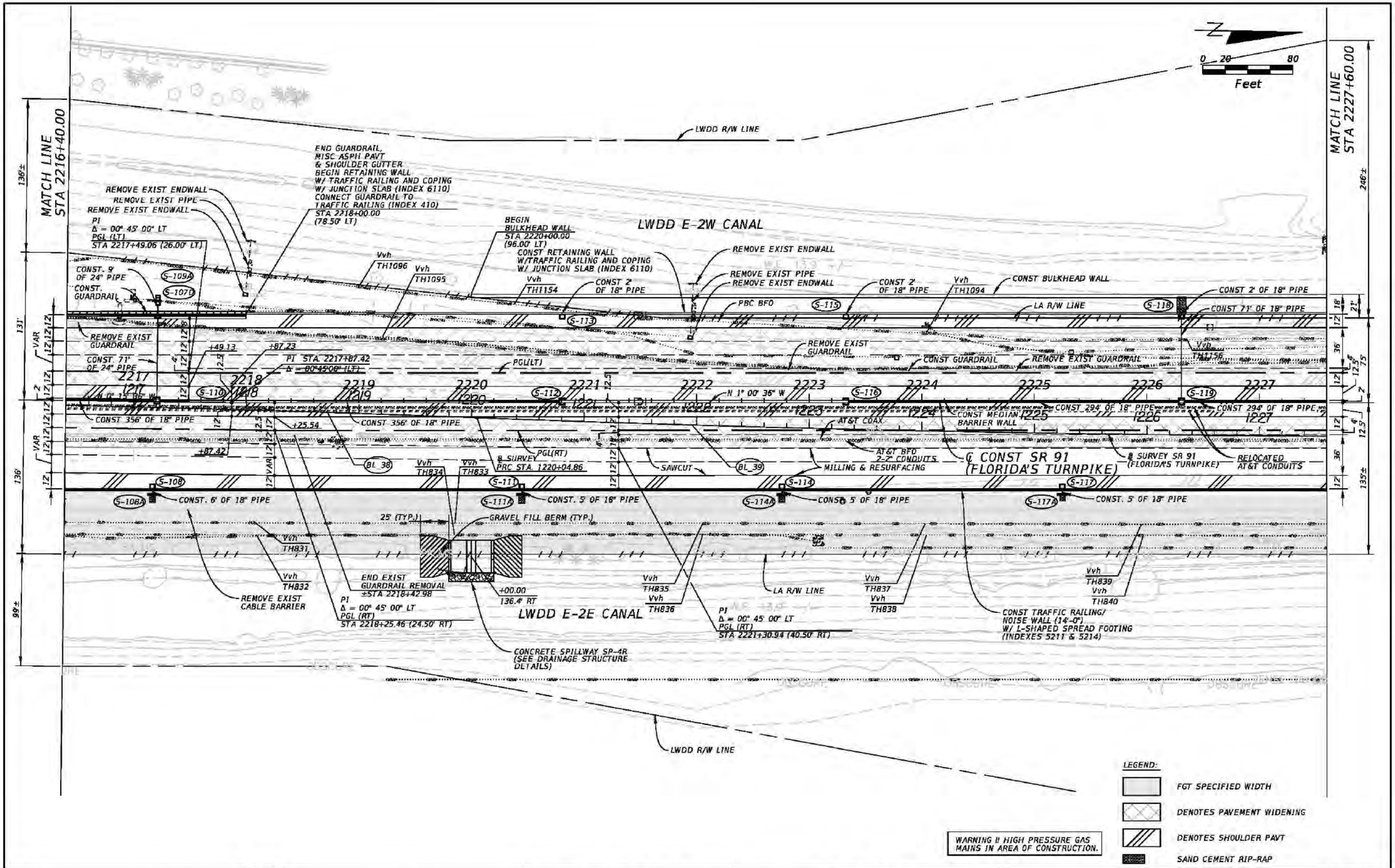

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (13)

SHEET NO. 68

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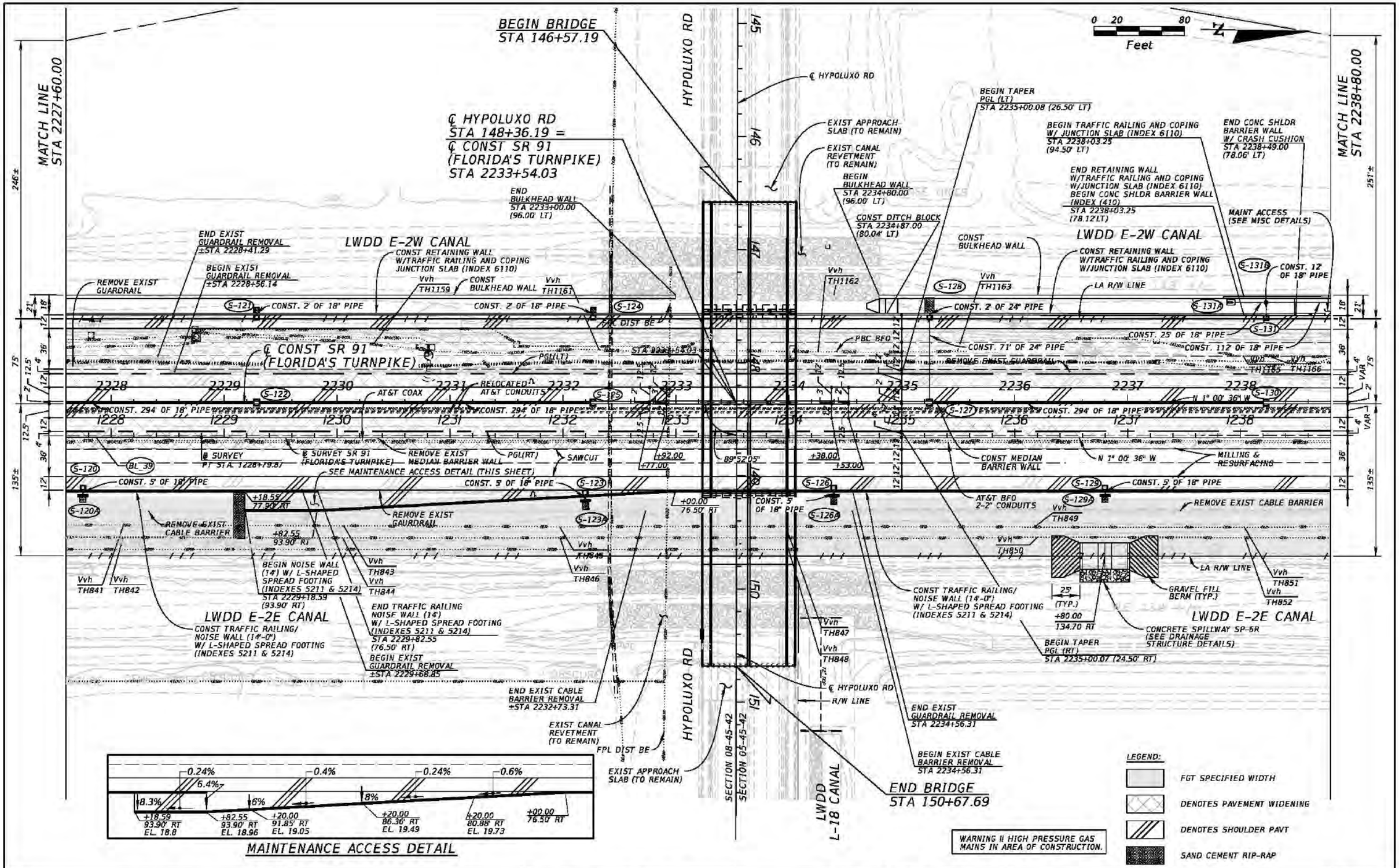

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (14)

SHEET NO.
69

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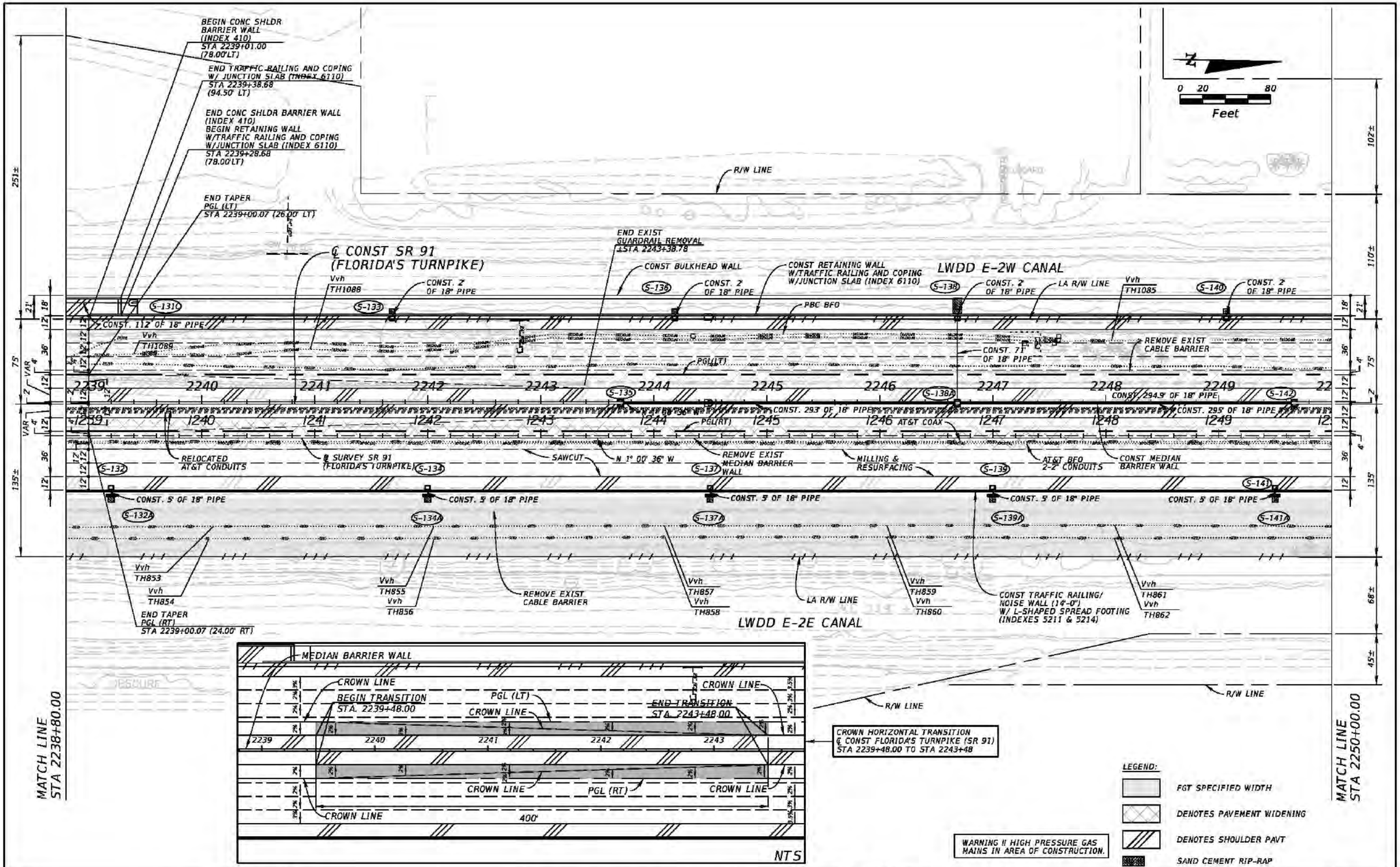

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (15)

SHEET NO. 70

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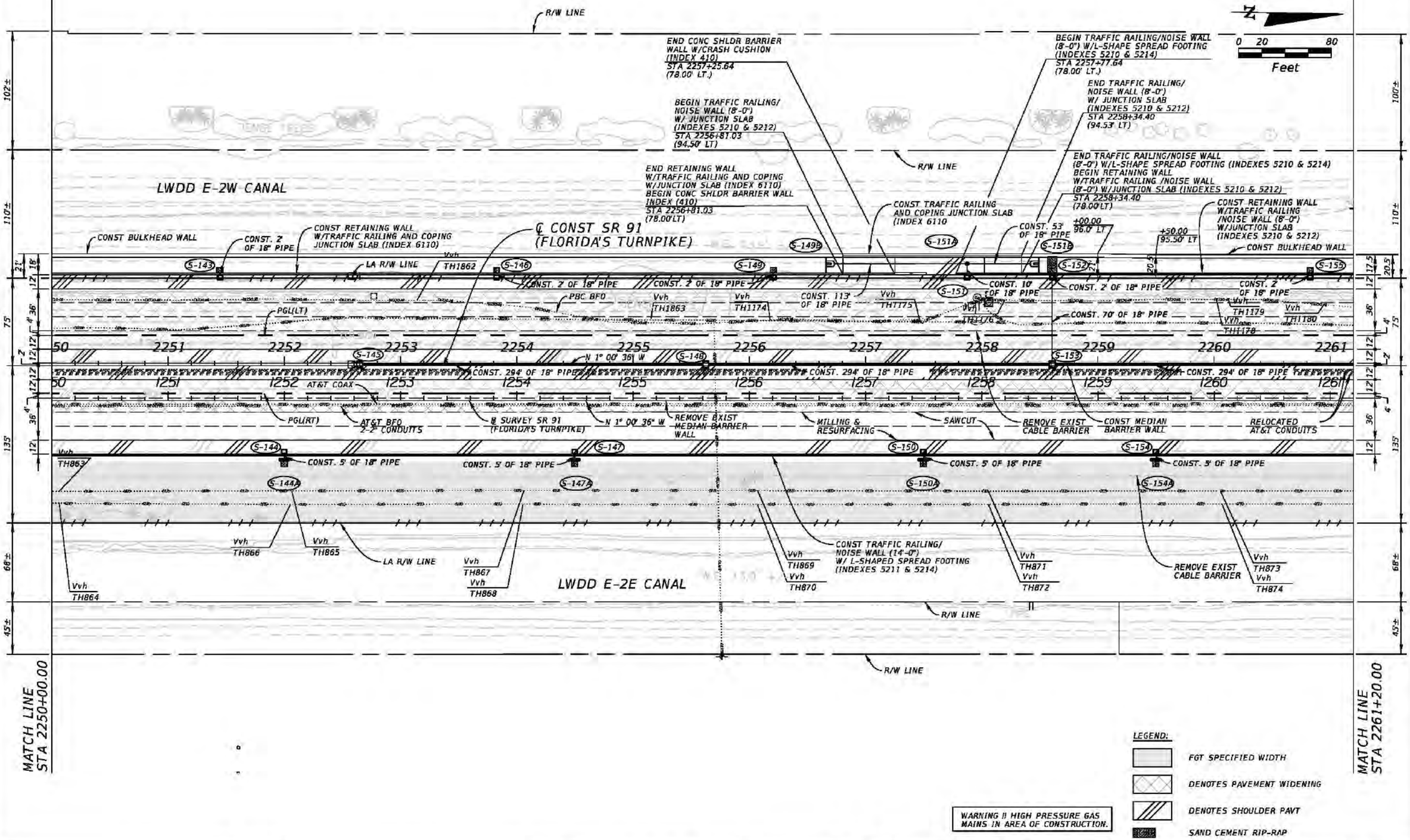

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (16)

SHEET NO. 71

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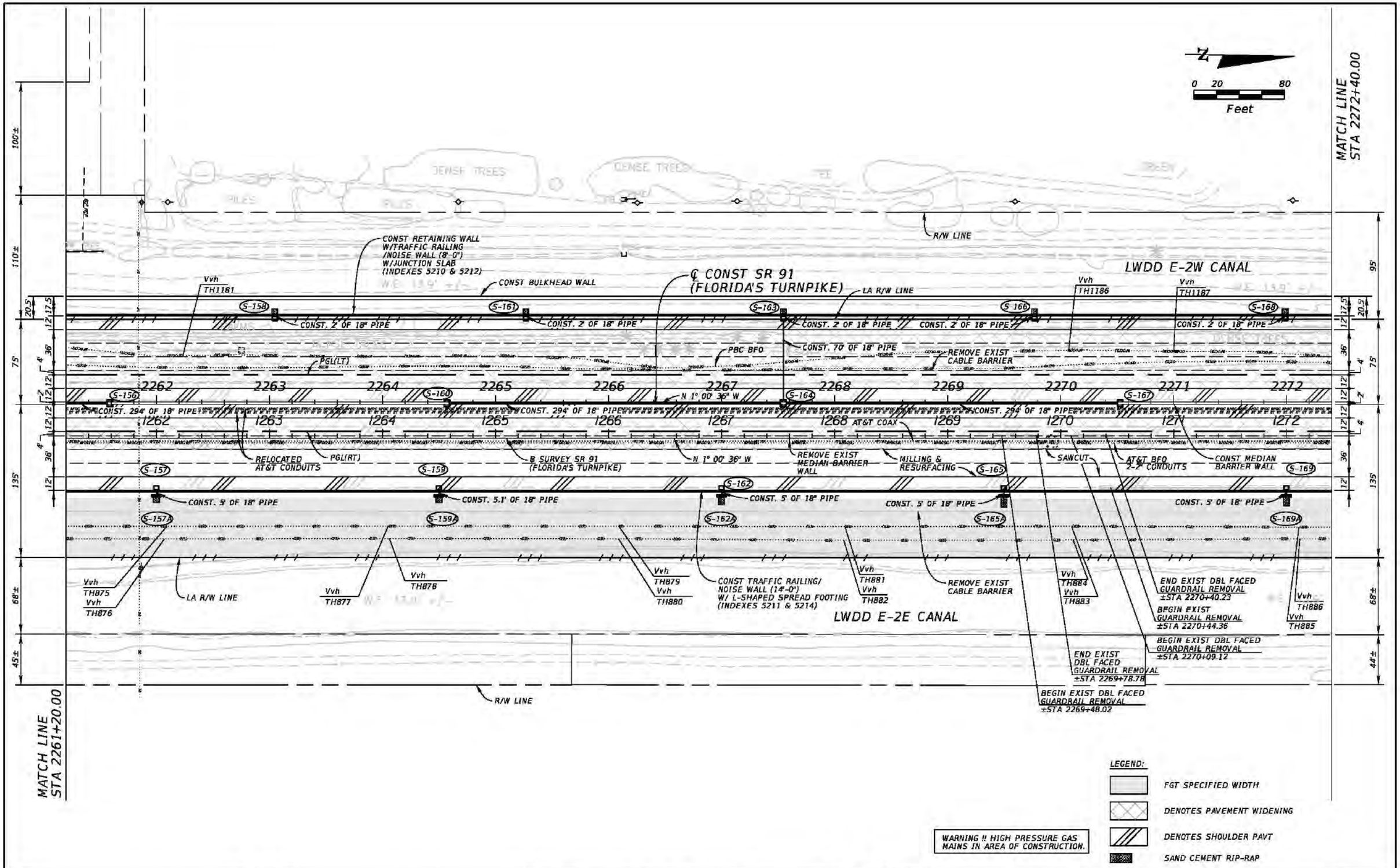

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ROADWAY PLAN (17)

SHEET NO. 72

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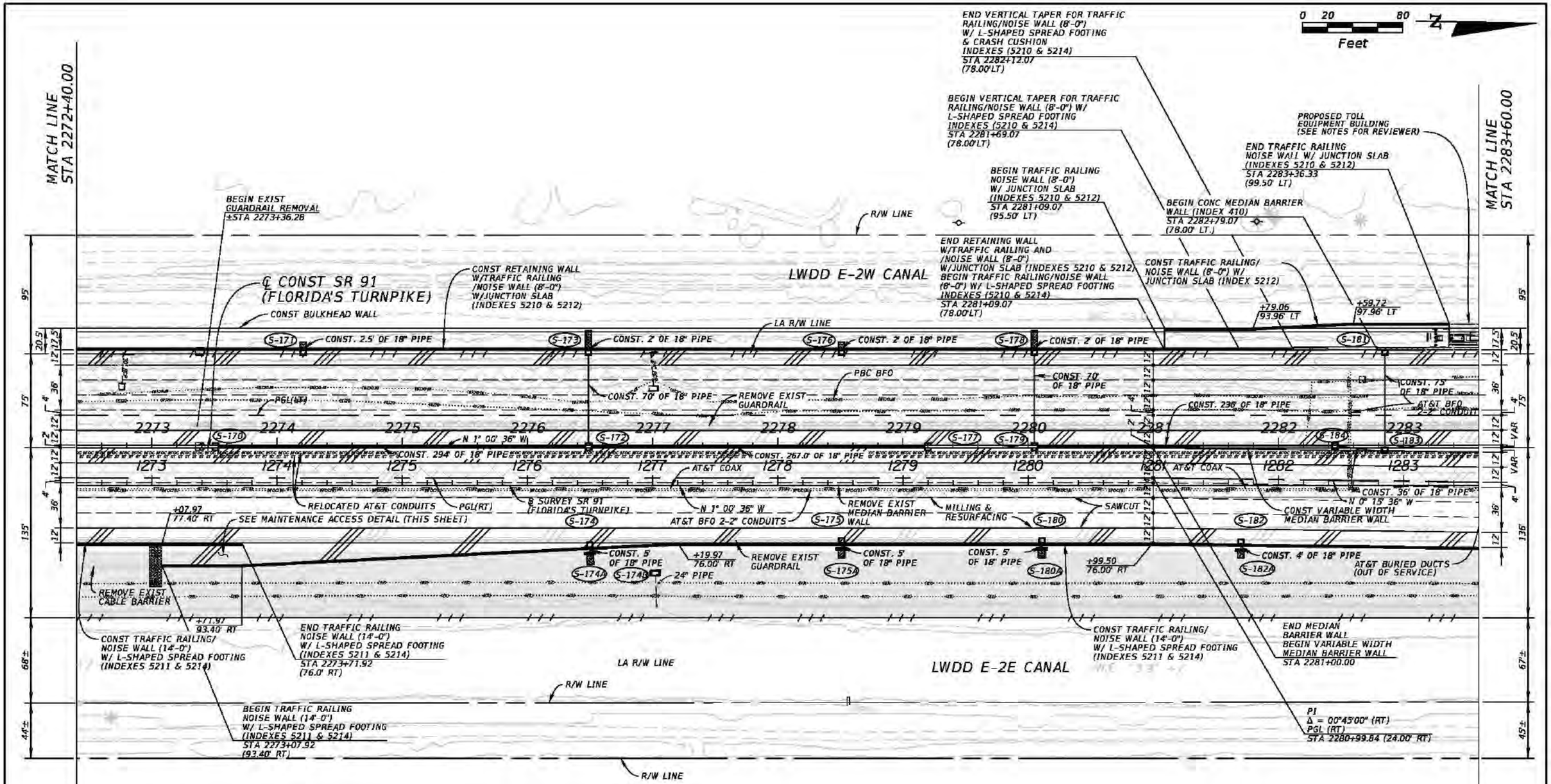

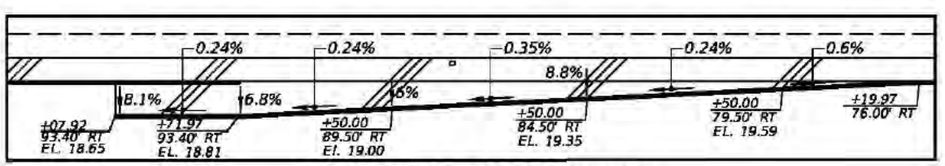

MAINTENANCE ACCESS DETAIL

LEGEND:

- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

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ROADWAY PLAN (18)

SHEET NO. 73

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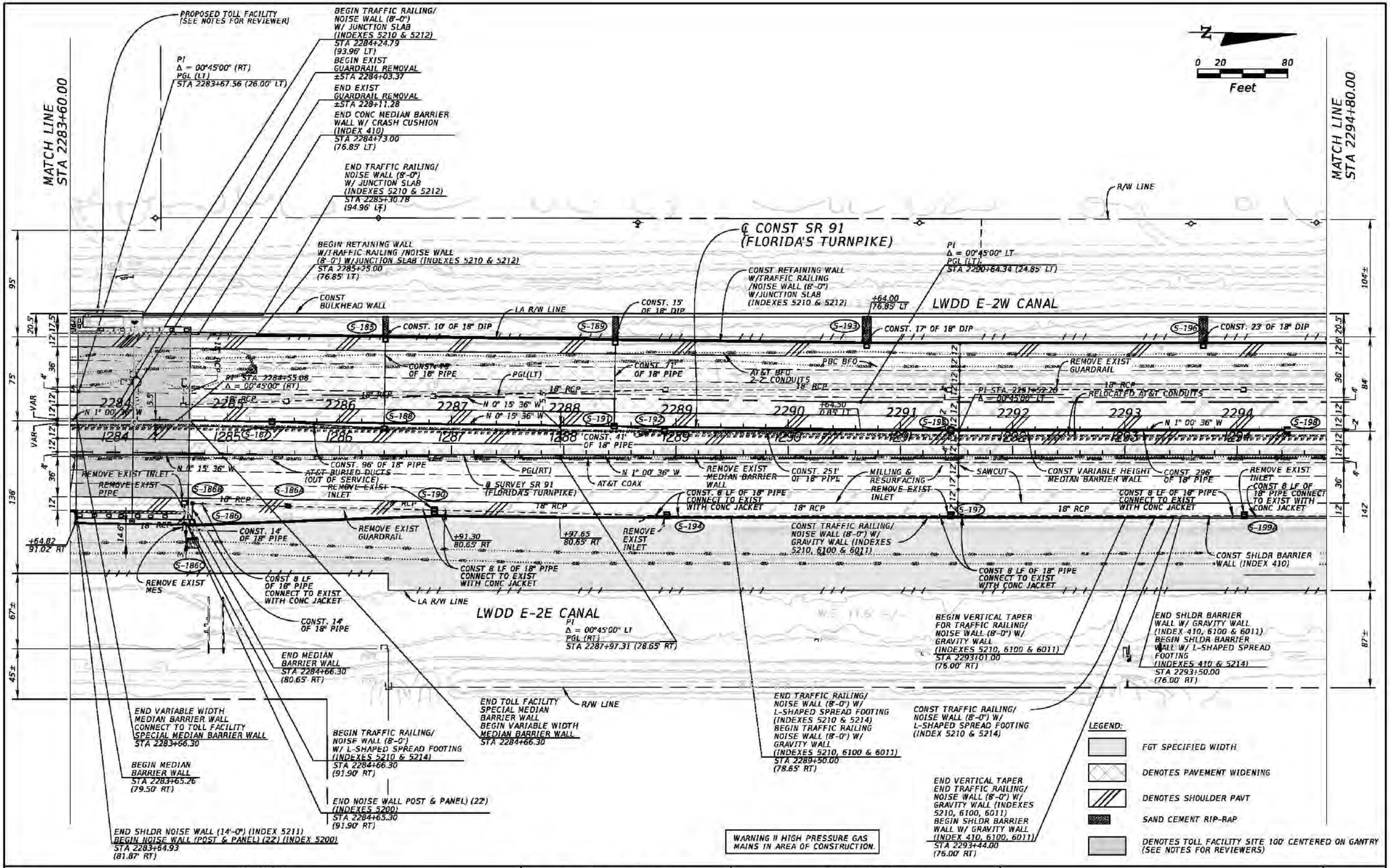

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ROADWAY PLAN (19)

SHEET NO. 74

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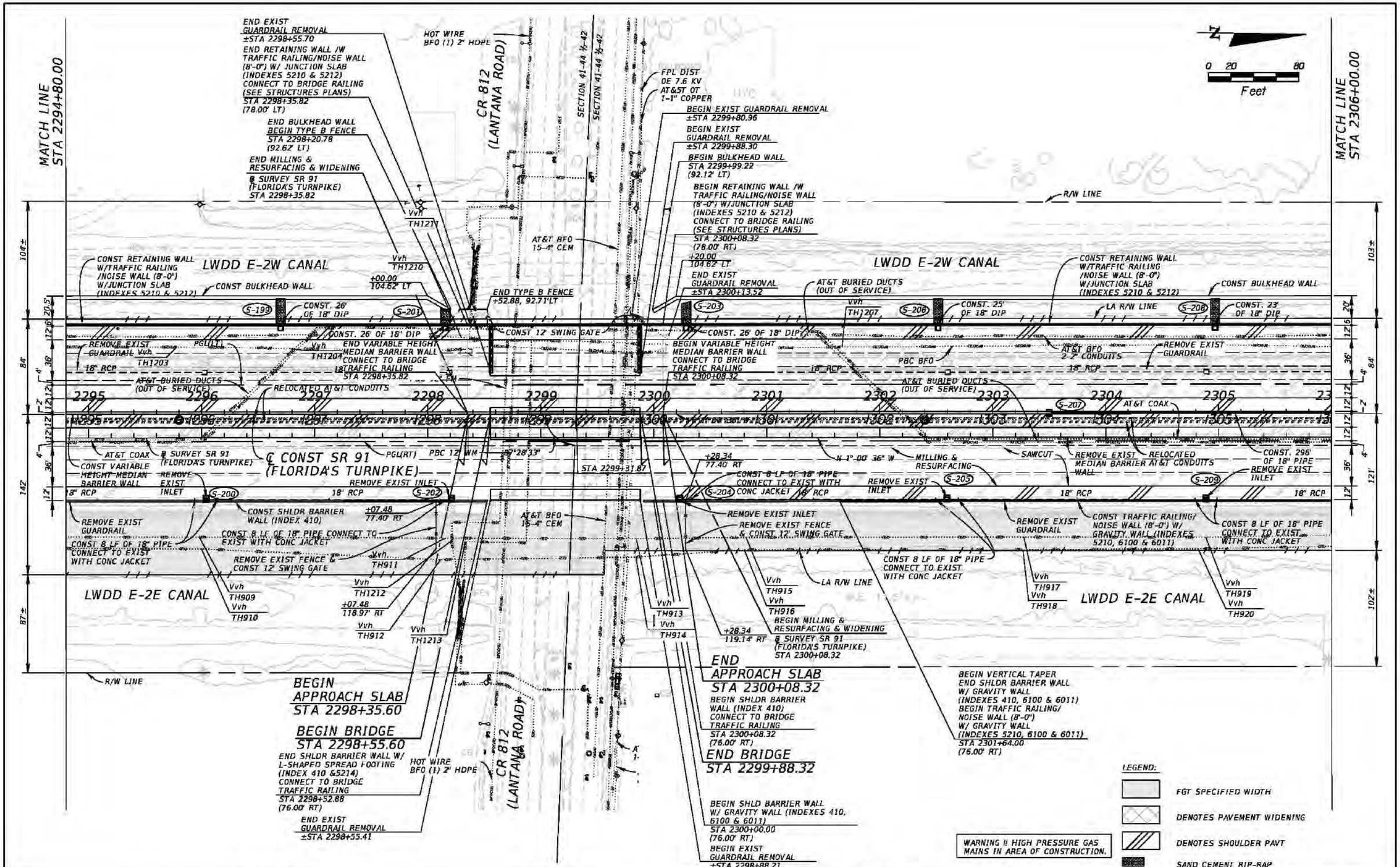

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (20)

SHEET NO. 75

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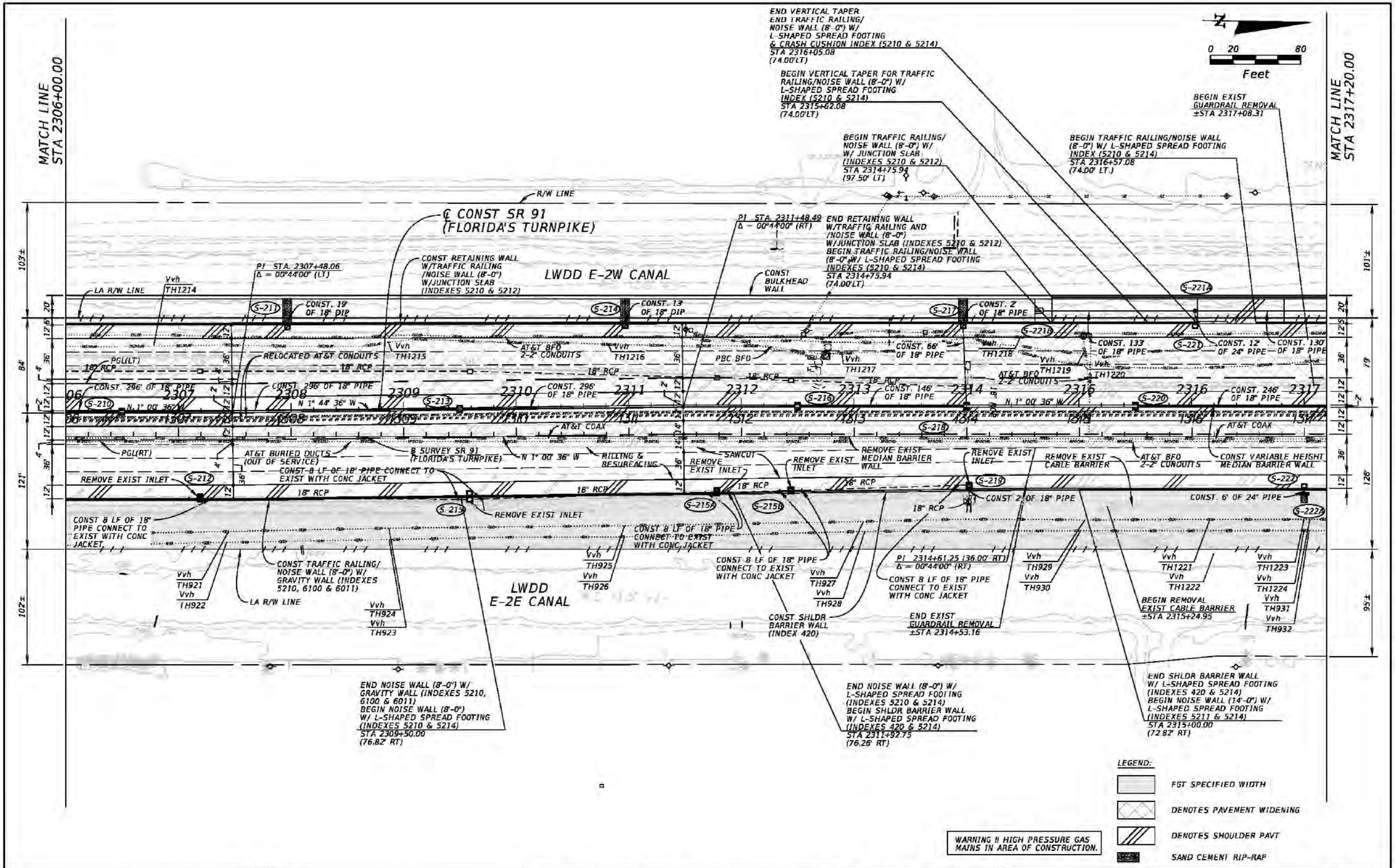

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (21)

SHEET NO. 76

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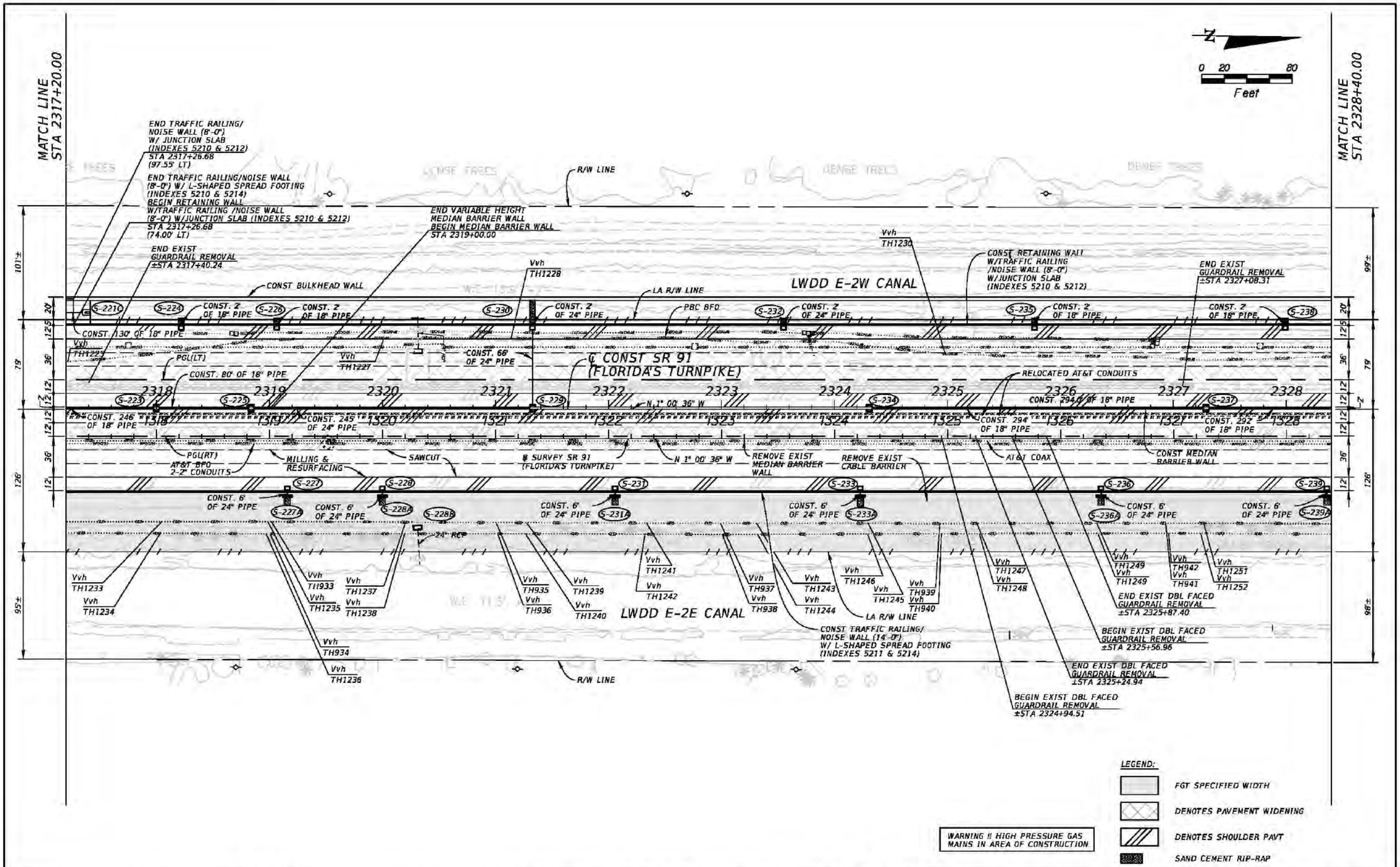

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ROADWAY PLAN (22)

SHEET NO. 77

Rob.Conklin 2/3/2017 3:50:23 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd23.dgn

MATCH LINE STA 2328+40.00

MATCH LINE STA 2339+60.00

0 20 80 Feet

END VERTICAL TAPER FOR TRAFFIC RAILING/NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING & CRASH CUSHION (INDEXES 5210 & 5214) STA 2334+61.00 (74.00' LT)

BEGIN VERTICAL TAPER FOR TRAFFIC RAILING/NOISE WALL (8'-0") (INDEX 5210) STA 2334+18.00 (74.00' LT)

BEGIN TRAFFIC RAILING/ NOISE WALL (8'-0") W/ JUNCTION SLAB (INDEXES 5210 & 5212) STA 2333+34.00 (96.00' LT)

END RETAINING WALL W/TRAFFIC RAILING AND /NOISE WALL (8'-0") W/JUNCTION SLAB (INDEXES 5210 & 5212) BEGIN TRAFFIC RAILING/NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES (5210 & 5214) STA 2333+34.00 (74.00'LT)

BEGIN TRAFFIC RAILING/NOISE WALL (8'-0") W/ L-SHPAED SPREAD FOOTING (INDEXES 5210 & 5214) STA 2335+13.00 (74.00' LT)

END TRAFFIC RAILING/ NOISE WALL (8'-0") W/ JUNCTION SLAB (INDEXES 5210 & 5212) STA 2336+01.21 (96.00' LT)

END TRAFFIC RAILING/NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5210 & 5214) BEGIN RETAINING WALL W/TRAFFIC RAILING /NOISE WALL (8'-0") W/JUNCTION SLAB (INDEXEX 5210 & 5212) STA 2336+01.21 (74.00' LT)

R/W LINE

LWDD E-2W CANAL

CONST RETAINING WALL W/TRAFFIC RAILING /NOISE WALL (8'-0") W/JUNCTION SLAB (INDEXES 5210 & 5212)

CONST BULKHEAD WALL

LA R/W LINE

CONST RETAINING WALL W/TRAFFIC RAILING/NOISE WALL (8'-0") JUNCTION SLAB (INDEXES 5210 & 5212)

CONST BULKHEAD WALL

PBC BFO

CONST. 2' OF 18" PIPE

CONST. 66.8' OF 18" PIPE

PGL(LT)

℄ CONST SR 91 (FLORIDA'S TURNPIKE)

CONST. 104' OF 18" PIPE

CONST. 2' OF 18" PIPE

CONST. 12' OF 18" PIPE

CONST. 66.8' OF 18" PIPE

CONST. 175' OF 18" PIPE

CONST. 2' OF 18" PIPE

CONST. 246' OF 18" PIPE

RELOCATED AT&T CONDUITS

N 1° 00' 36" W

CONST. 292' OF 18" PIPE

CONST. 318' OF 18" PIPE

CONST. 264' OF 18" PIPE

CONST. 246' OF 18" PIPE

AT&T BFO 2-2" CONDUITS

MILLING & RESURFACING

SAWCUT

PGL(RT)

AT&T COAX

REMOVE EXIST MEDIAN BARRIER WALL

℄ SURVEY SR 91 (FLORIDA'S TURNPIKE)

N 1° 00' 36" W

CONST MEDIAN BARRIER WALL +00.14 72.00' RT

CONST. 2' OF 18" PIPE

SEE MAINTENANCE ACCESS DETAIL (THIS SHEET)

+52.14 89.40' RT

CONST. 5' OF 18" PIPE

REMOVE EXIST CABLE BARRIER

CONST. 5' OF 18" PIPE

END EXIST CABLE BARRIER REMOVAL ±STA 2337+29.03

REMOVE EXIST GUARDRAIL

LA R/W LINE

END EXIST GUARDRAIL REMOVAL ±STA 2337+97.86

BEGIN EXIST GUARDRAIL REMOVAL ±STA 2338+19.50

BEGIN EXIST GUARDRAIL REMOVAL ±STA 2335+74.12

LWDD E-2E CANAL

25' (TYP.)

+00.00 126' RT

GRAVEL FILL BERM (TYP.)

CONCRETE SPILLWAY SP-BR (SEE DRAINAGE STRUCTURE DETAILS)

CONST TRAFFIC RAILING/ NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214)

END TRAFFIC RAILING NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214) STA 2334+52.14 (72.00' RT)

BEGIN TRAFFIC RAILING NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214) STA 2333+88.14 (89.40' RT)

Vvh TH1253 Vvh TH1255 Vvh TH1257 Vvh TH1258 Vvh TH1259 Vvh TH1260 Vvh TH1261 Vvh TH1262 Vvh TH1263 Vvh TH1264 Vvh TH1265 Vvh TH1266 Vvh TH1267 Vvh TH1268 Vvh TH1269 Vvh TH1270 Vvh TH1271 Vvh TH1272 Vvh TH1273 Vvh TH1274 Vvh TH1879 Vvh TH943 Vvh TH944 Vvh TH945 Vvh TH946 Vvh TH947 Vvh TH948 Vvh TH949 Vvh TH950 Vvh TH951 Vvh TH952 Vvh TH953 Vvh TH954

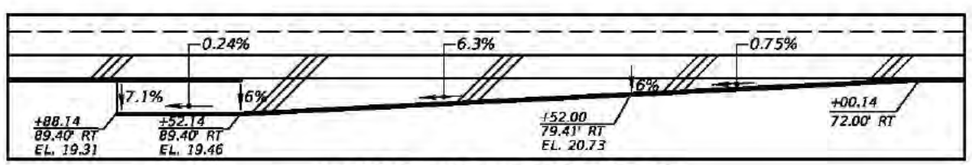
S-240 S-241 S-242 S-242A S-243 S-243A S-244 S-245 S-246 S-247 S-247A S-248 S-249 S-250 S-251 S-252 S-252A S-253 S-254

2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339

1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339

99± 20' 12.5' 79' 36' 12' 12' 12' 12' 36' 12' 126± 98±

98± 20' 12.5' 79' 36' 12' 12' 12' 12' 36' 12' 126' 101±



MAINTENANCE ACCESS DETAIL

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

LEGEND:

- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (23)

SHEET NO. 78

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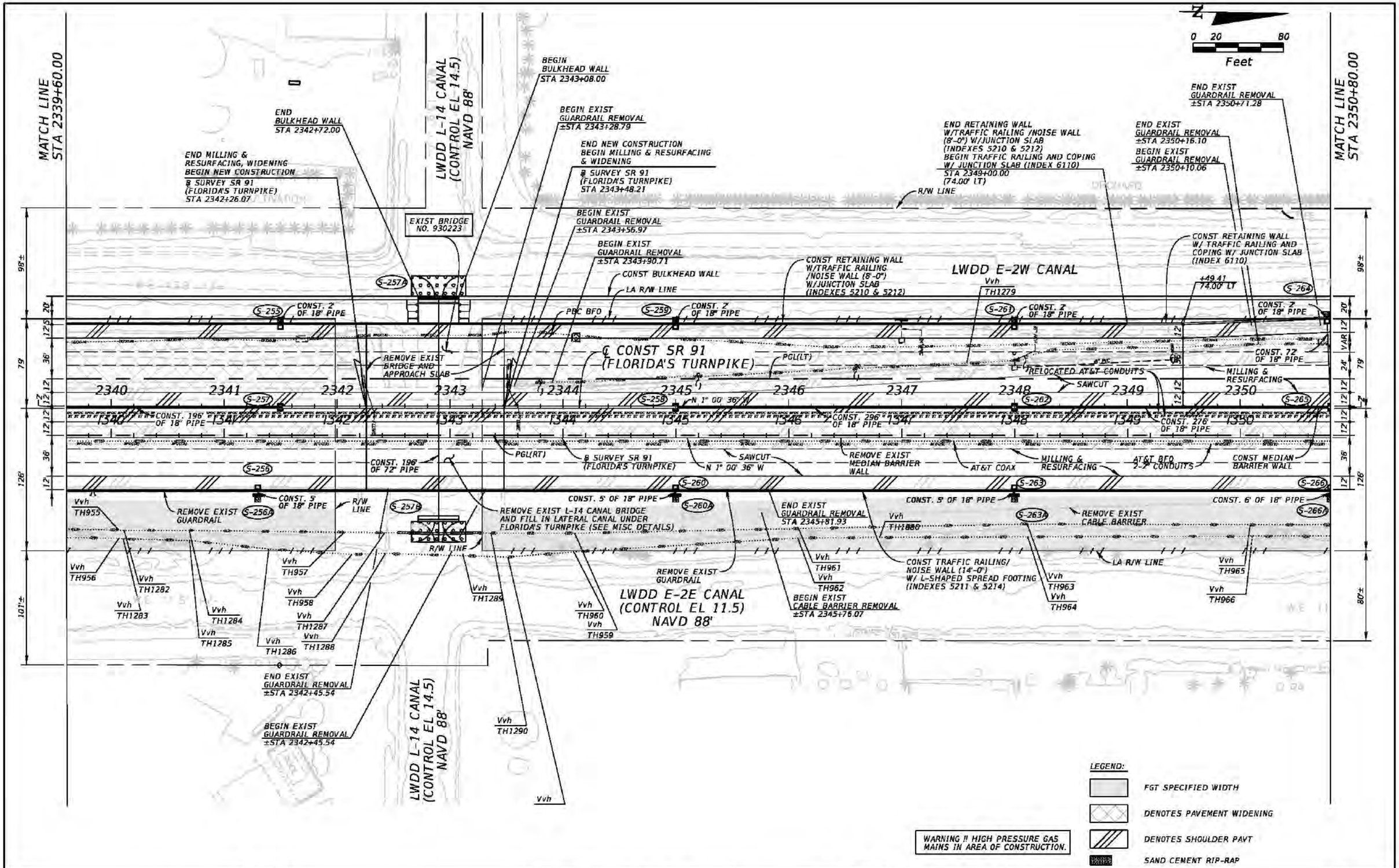

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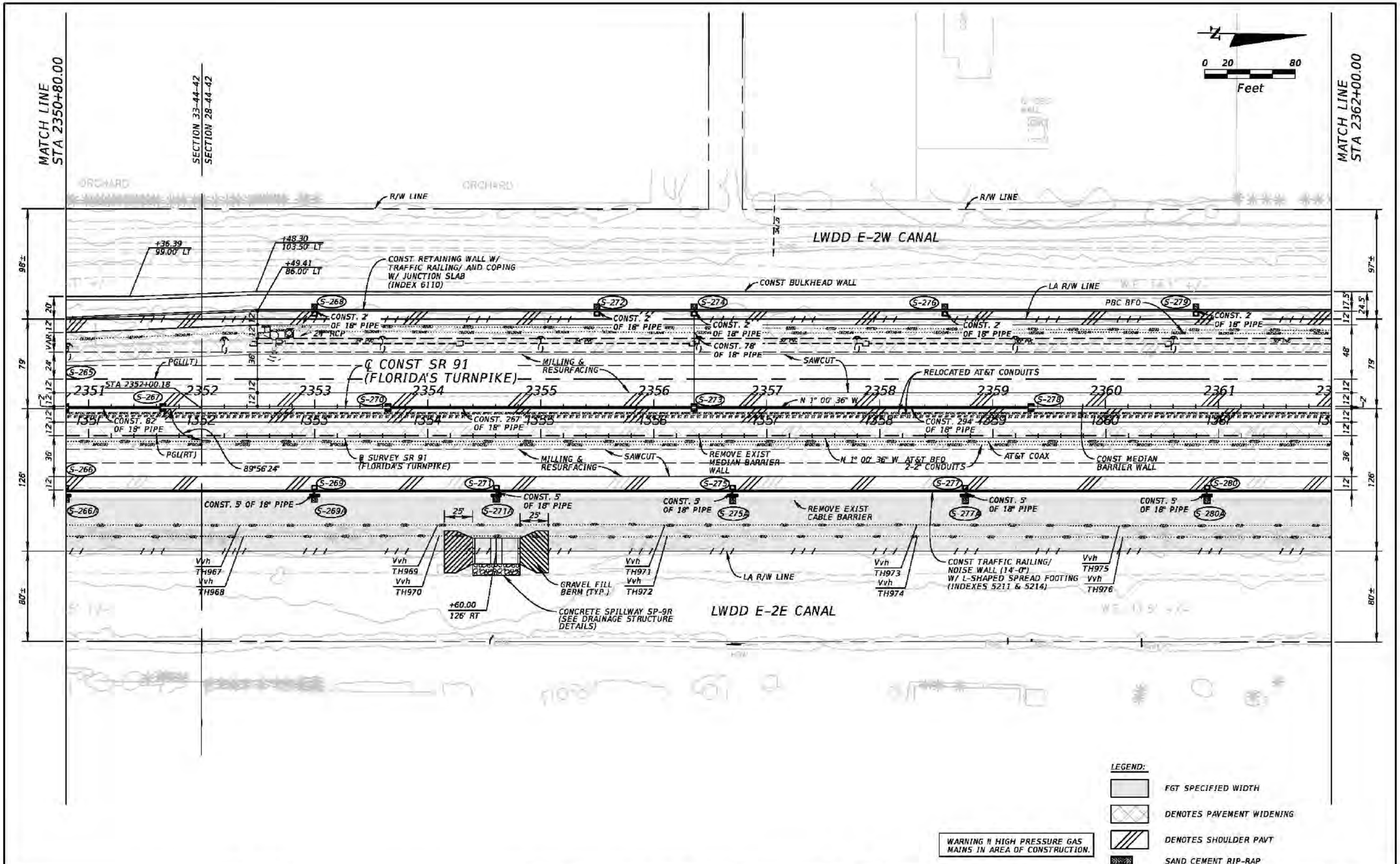
ROADWAY PLAN (24)

SHEET NO. 79

Rob.Conklin 2/3/2017 3:50:34 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd25.dgn



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P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

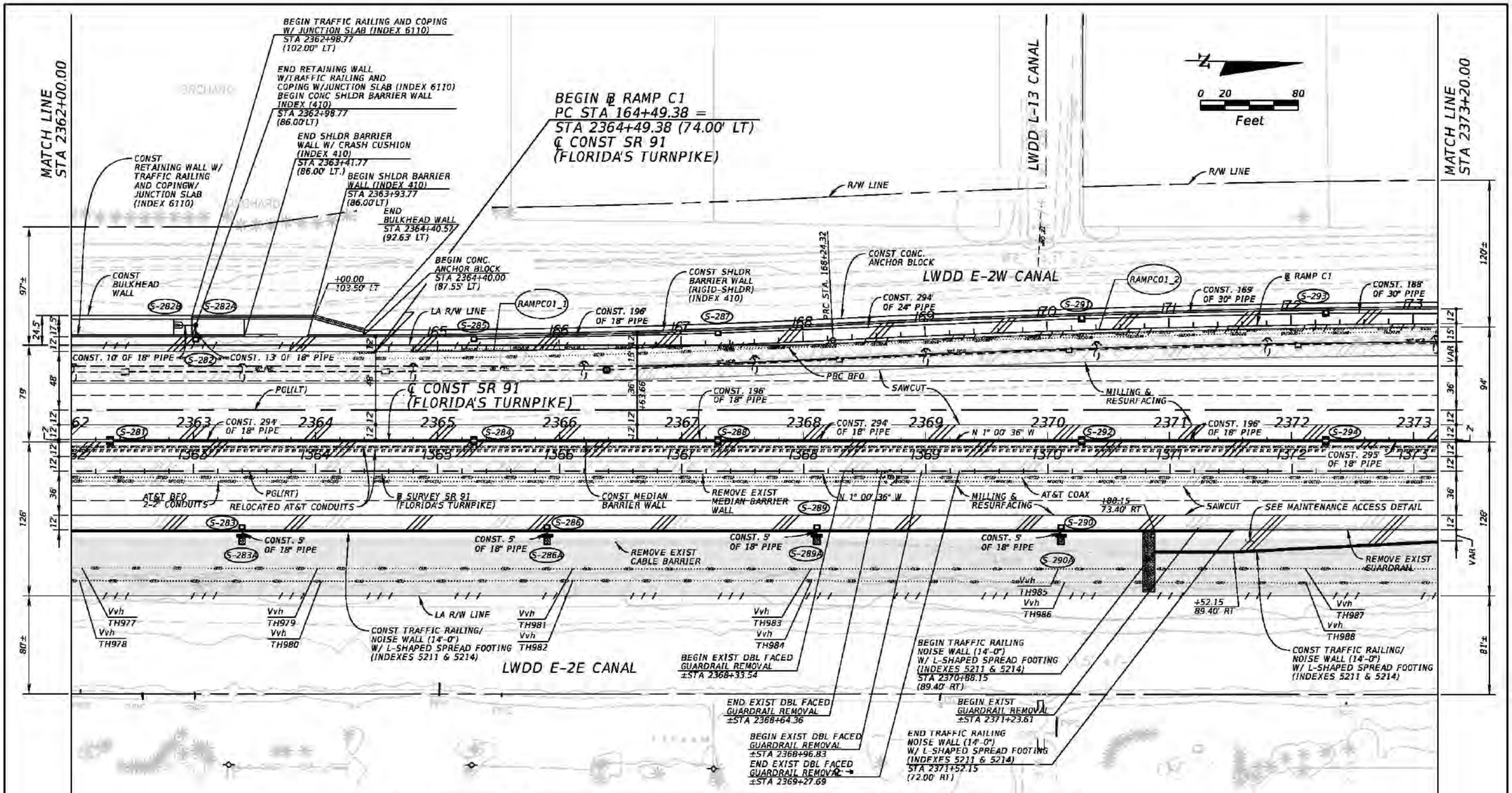
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

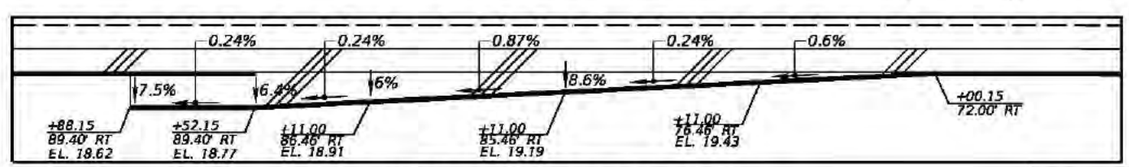
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (25)

SHEET NO.
80

Rob.Conklin 2/3/2017 3:50:39 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd26.dgn





MAINTENANCE ACCESS DETAIL

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

LEGEND:

- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (26)

SHEET NO. 81

Rob.Conklin 2/3/2017 3:50:43 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd27.dgn

MATCH LINE STA 2373+20.00

MATCH LINE STA 2384+40.00

MATCH LINE STA 180+90.00

0 20 80
Feet

CONST RETAINING WALL W/ TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110)

END SHLDR BARRIER WALL BEGIN GUARDRAIL & MISC ASPH PAVT CONNECT TO SHLDR BARRIER WALL (INDEX 410) STA 2377+09.19 (74.00' LT)

END SHLDR BARRIER WALL BEGIN RETAINING WALL W/ TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110) STA 178+00.00 (12.00' LT)

END VARIABLE HEIGHT MEDIAN BARRIER WALL BEGIN SHLDR BARRIER WALL W/ 2" CONC CAP OVER GRANULAR FILL (INDEX 410) STA 2376+26.01 (76.36' LT)

END SHLDR BARRIER WALL BEGIN GUARDRAIL & MISC ASPH PAVT CONNECT TO SHLDR BARRIER WALL (INDEX 410) STA 177+07.02 (88.08' LT)

END GUARDRAIL W/ PARALLEL END ANCHORAGE STA 179+43.64 (23.00' RT)

END EXIST GUARDRAIL REMOVAL ±STA 179+05.83

CONST SHLDR BARRIER WALL (RIGID-SHLDR) (INDEX 410)

R/W LINE

END CONC. ANCHOR BLOCK STA 2375+50.00 (110.54' LT)

BEGIN EXIST GUARDRAIL REMOVAL ±STA 2377+24.51

BEGIN EXIST GUARDRAIL REMOVAL ±STA 177+95.48

BEGIN VARIABLE HEIGHT MEDIAN BARRIER WALL STA 2373+86.39 (75.00' LT)

CONST CONC. ANCHOR BLOCK

PT STA. 173+86.76

PC STA. 175+64.51

RAMPC01_2

RAMPC01_5

END GUARDRAIL W/ FLARED END ANCHORAGE STA 2380+02.16 (78.45' LT)

END MISC ASPH PAVT STA 2380+20.53 (88.21' LT)

MILLING & RESURFACING

SAWCUT

B RAMP C1

REMOVE INLET

REMOVE PIPE

END MISC ASPH PAVT STA 179+50.00 (19.00' RT)

CONST 250 LF OF GUARDRAIL

REMOVE ENDWALL

END EXIST GUARDRAIL REMOVAL ±STA 2379+92.44

POND A

LWDD E-2W CANAL

Vvh TH1312

N 1° 00' 36" W

CONST. 159' OF 36" PIPE

LA R/W LINE

CONST. 84' OF 36" PIPE

CONST. 69' OF 36" PIPE

REMOVE EXIST GUARDRAIL

CONST 300 LF OF GUARDRAIL

CONST. 53' OF 30" PIPE

CONST. 75' OF 36" PIPE

CONST. 188' OF 30" PIPE

SAWCUT

CONST. 197' OF 30" PIPE

CONST. 84' OF 18" PIPE

CONST. 147' OF 36" PIPE

PBC BFO

2" CONC CAP OVER GRANULAR FILL

CONC SHLDR BARRIER WALL

8 ENCASED GUARD RAIL POST (INDEX 400)

PGL(LT)

CONST. 65' OF 18" PIPE

SAWCUT

℄ CONST SR 91 (FLORIDA'S TURNPIKE)

MILLING & RESURFACING

N 1° 00' 36" W

CONST. 294' OF 18" PIPE

CONST. 212' OF 18" PIPE

N 0° 15' 36" W

PGL(RT)

CONST. 46' OF 18" PIPE

SEE MAINTENANCE ACCESS DETAIL (SEE ROADWAY PLAN (26))

+00.15 72.00' RT

CONST MEDIAN BARRIER WALL

B SURVEY SR 91 (FLORIDA'S TURNPIKE)

AT&T BFO 2-2" CONDUITS

N 1° 00' 36" W

REMOVE EXIST MEDIAN BARRIER WALL

SAWCUT

RELOCATED AT&T CONDUITS

AT&T COAX

CONST VARIABLE HEIGHT MEDIAN BARRIER WALL

MILLING & RESURFACING

CONST. 5' OF 18" PIPE

CONST. 5' OF 18" PIPE

CONST. 5' OF 18" PIPE

REMOVE EXIST GUARDRAIL

REMOVE EXIST CABLE BARRIER

LA R/W LINE

Vvh TH989

Vvh TH990

END EXIST CABLE BARRIER REMOVAL ±STA 2374+11.70

Vvh TH991

Vvh TH992

PI STA. 2375+73.04 Δ = 00°45'00" (RT)

Vvh TH993

Vvh TH994

CONST TRAFFIC RAILING/ NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214)

LWDD E-2E CANAL

Vvh TH995

Vvh TH996

END TRAFFIC RAILING NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214) BEGIN TRAFFIC RAILING NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5210 & 5214) STA 2381+79.14 (72.00' RT)

END MEDIAN BARRIER WALL BEGIN VARIABLE HEIGHT MEDIAN BARRIER WALL STA 2378+00.00

Vvh TH997

Vvh TH998

PLUG EXIST. 24" PIPE

CONST TRAFFIC RAILING/ NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5210 & 5214)

END TRAFFIC RAILING/ NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5210 & 5214) BEGIN TRAFFIC RAILING NOISE WALL (8'-0") W/ GRAVITY WALL (INDEXES 5210, 6100 & 6011) STA 2383+63.00 (72.00' RT)

Vvh TH999

Vvh TH1000

LEGEND:

- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

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Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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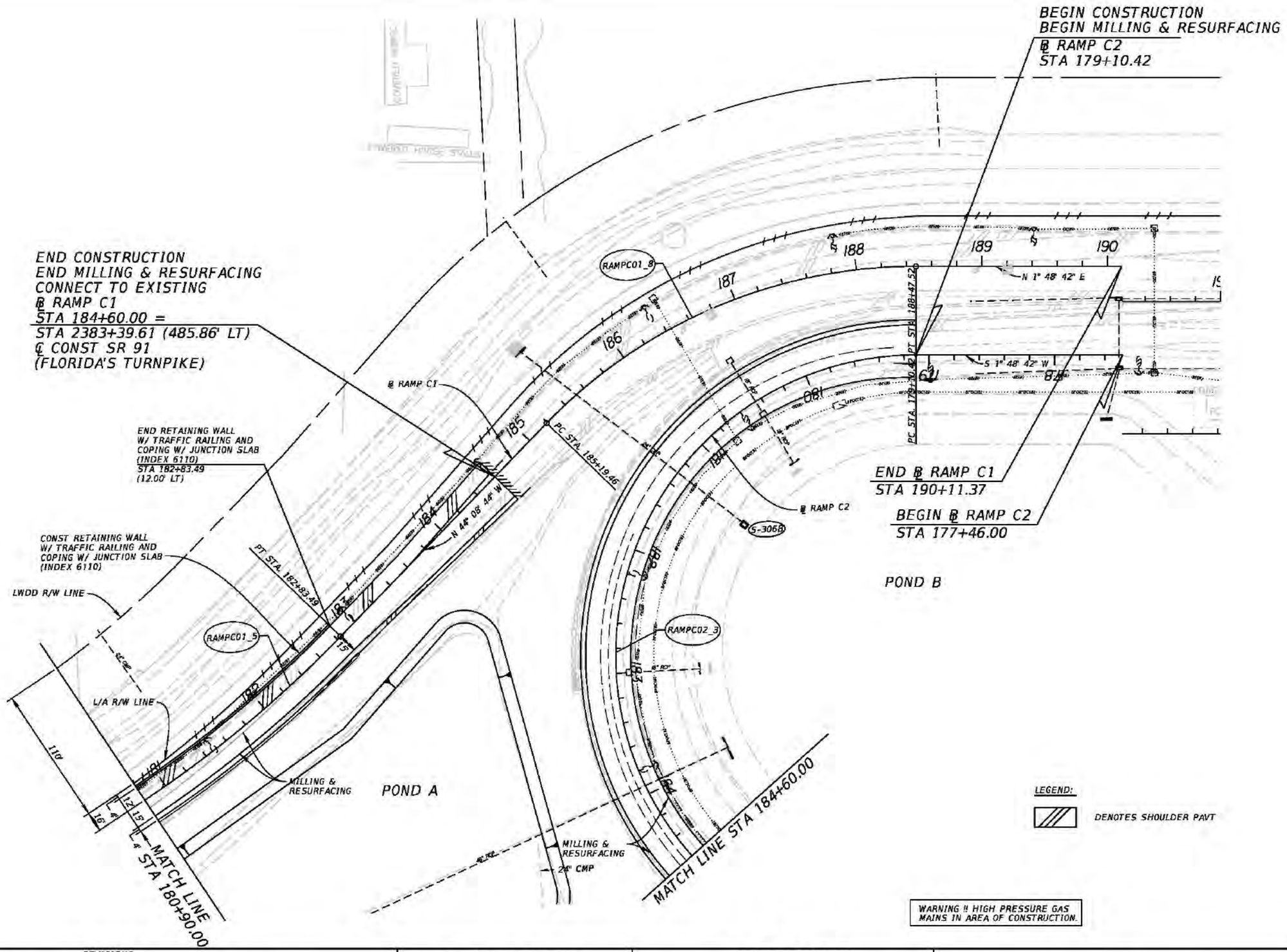
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (27)

SHEET NO. 82

Rob.Conklin 2/3/2017 4:53:16 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd28.dgn



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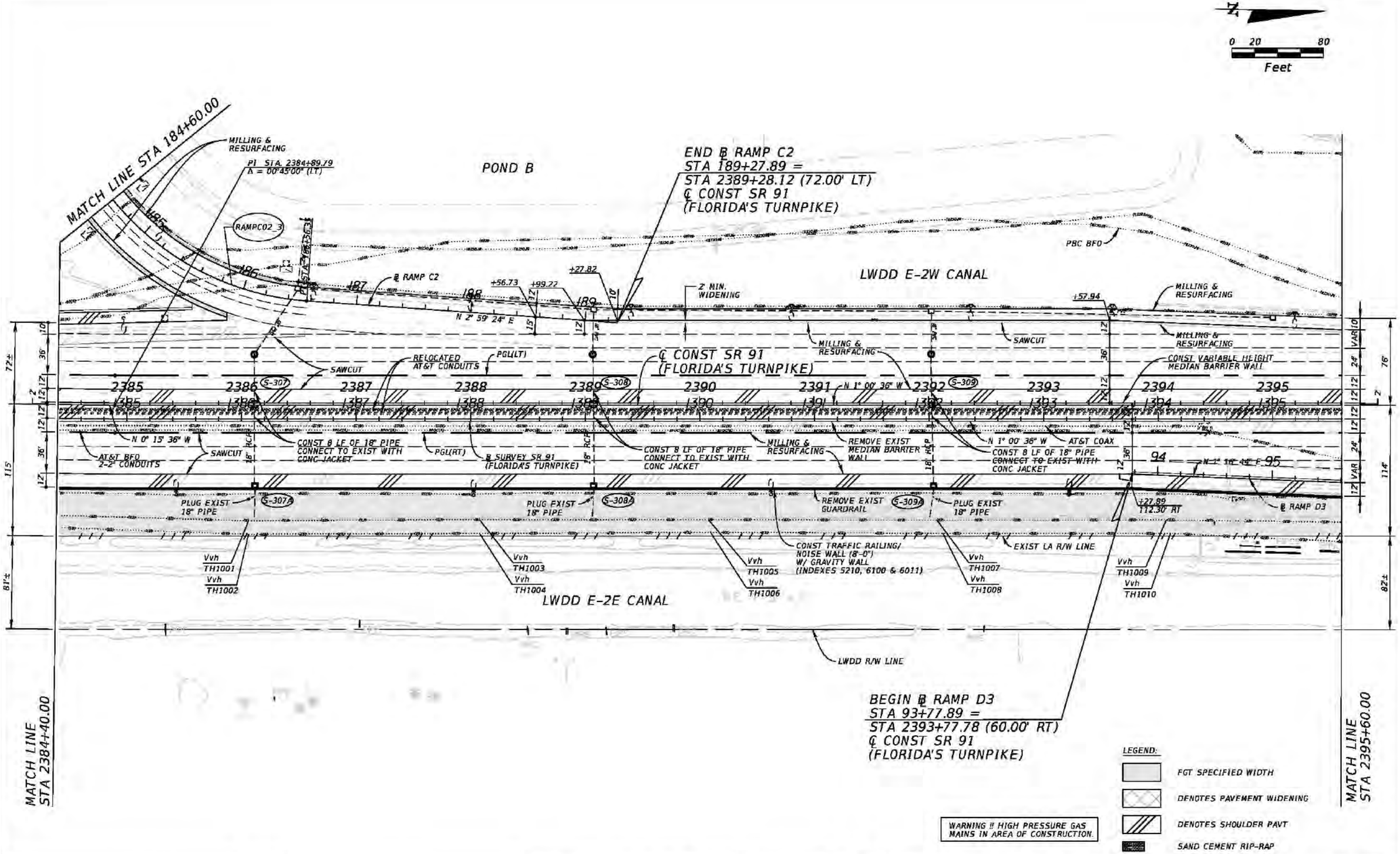
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (28)

SHEET NO.
83

Rob.Conklin 2/3/2017 4:54:44 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd28a.dgn



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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (29)

SHEET NO. 84

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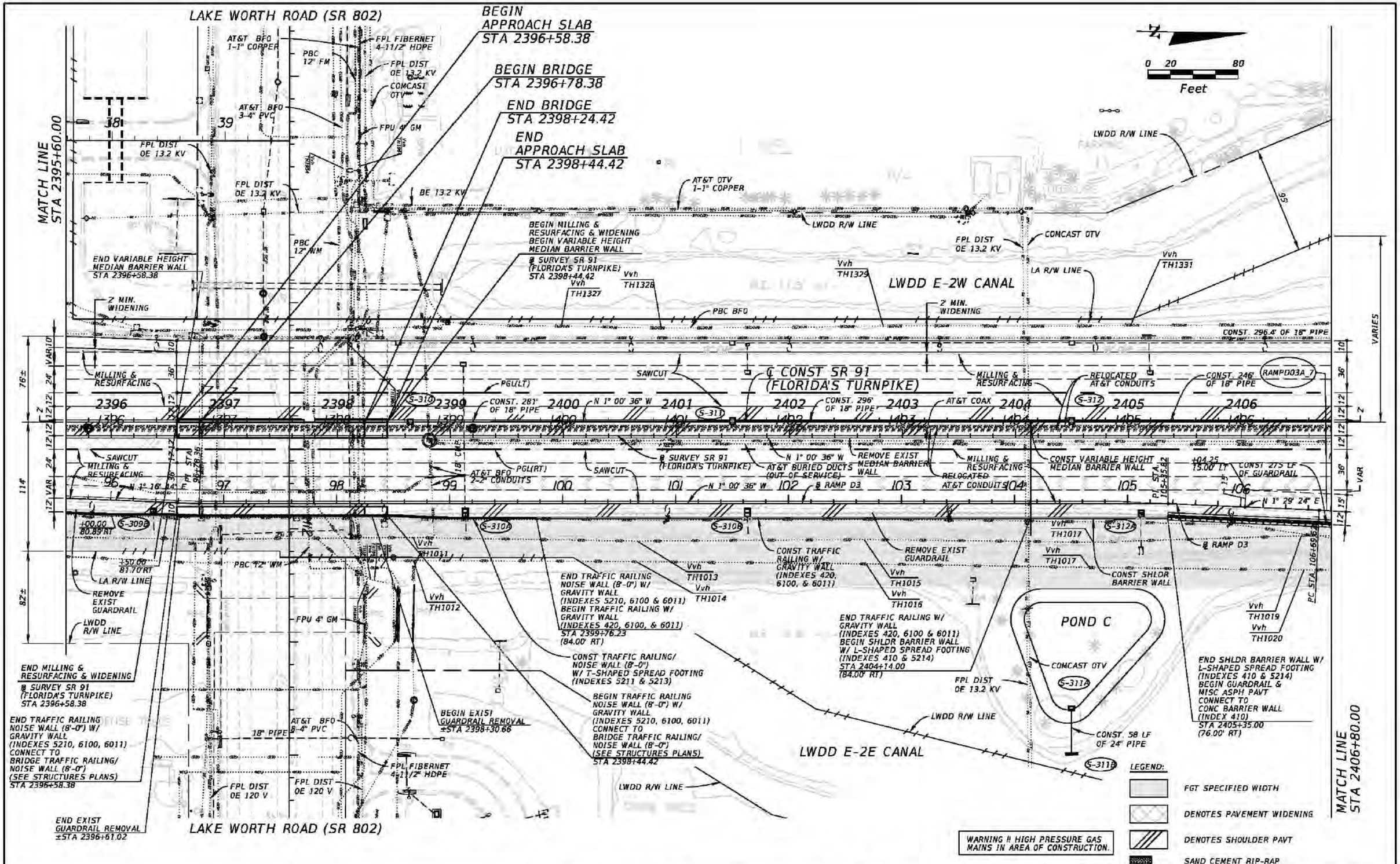

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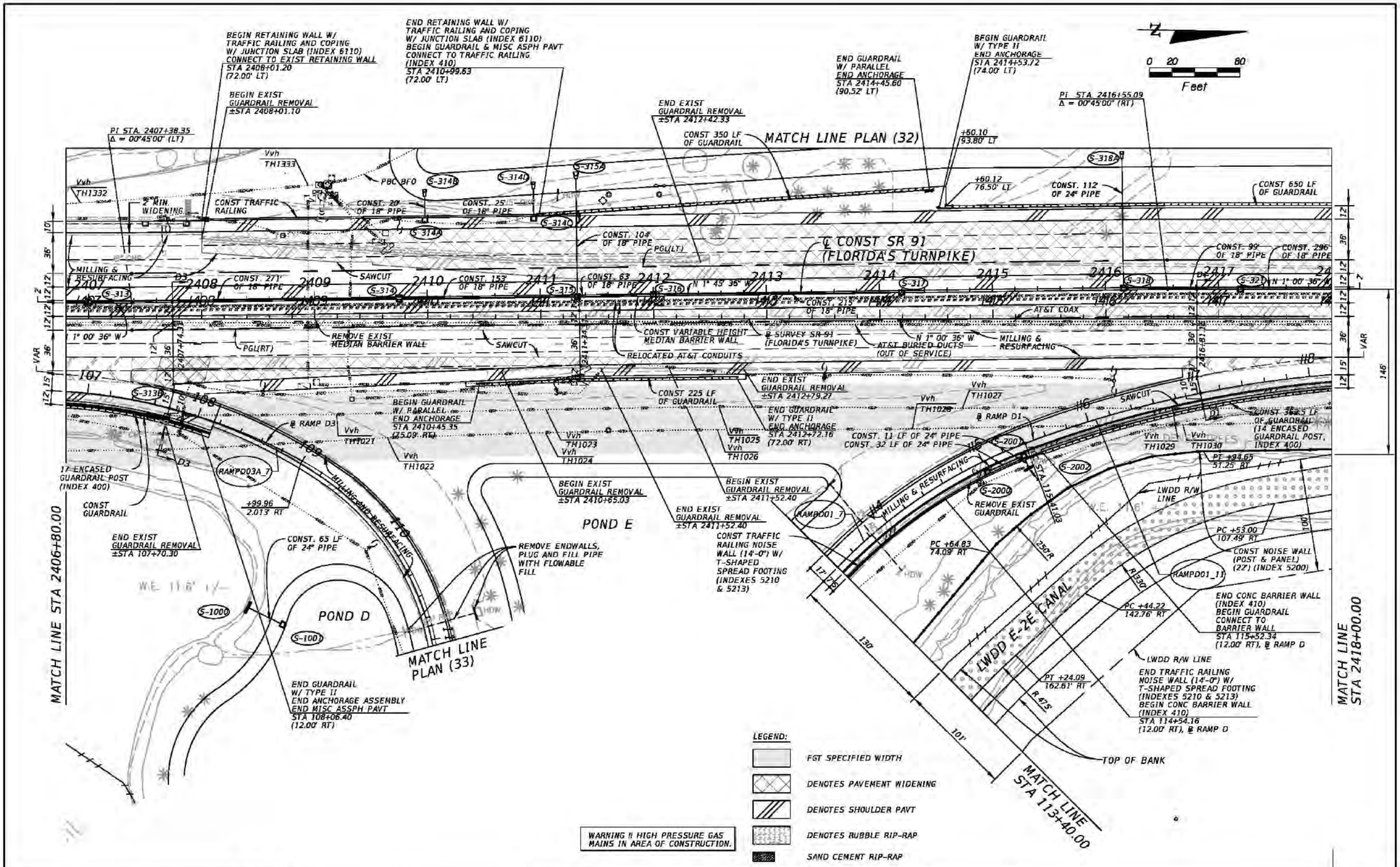
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (30)

SHEET NO. 85

Rob.Conklin 2/3/2017 3:51:02 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd30.dgn



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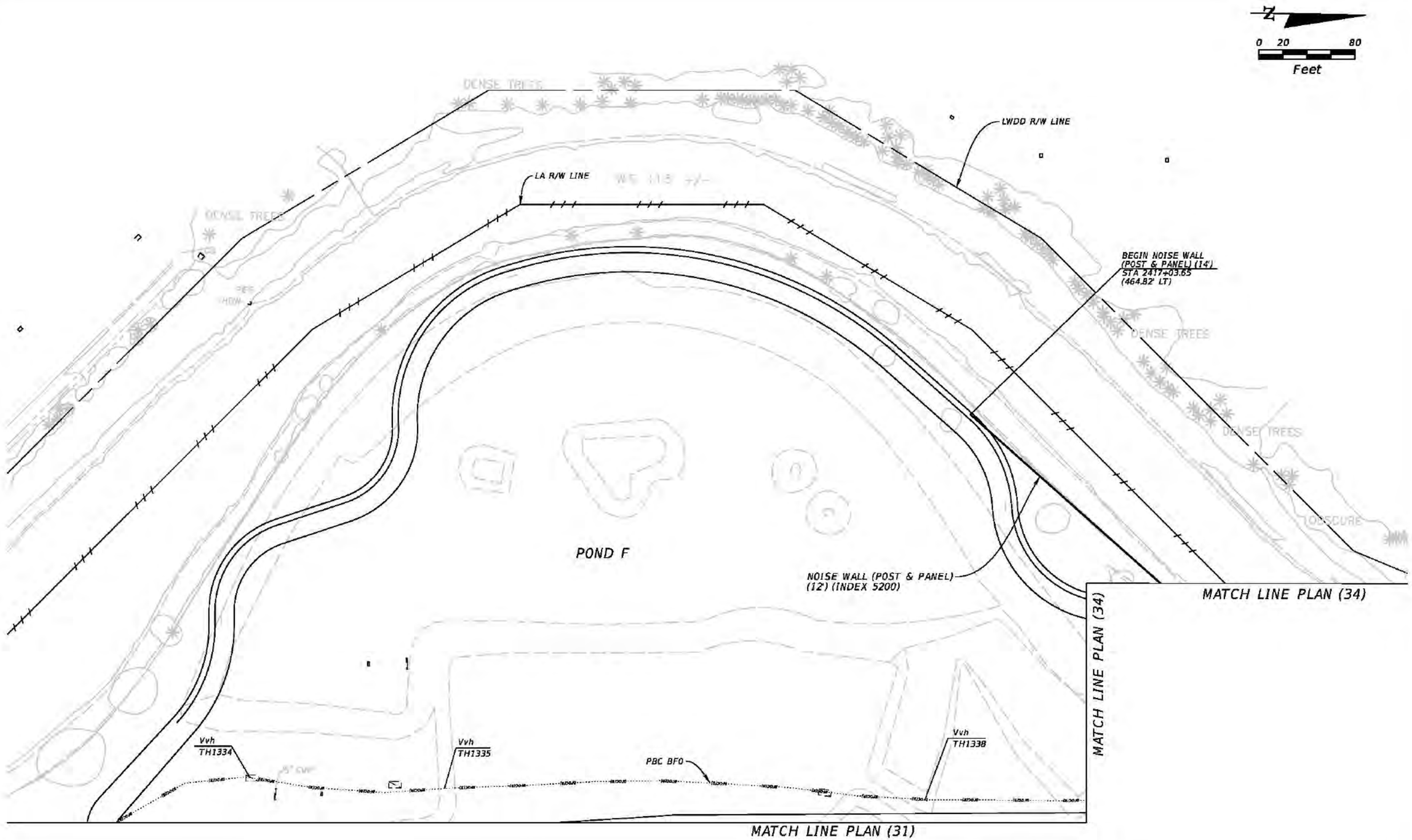
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (31)

SHEET NO. 86



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STATE OF FLORIDA
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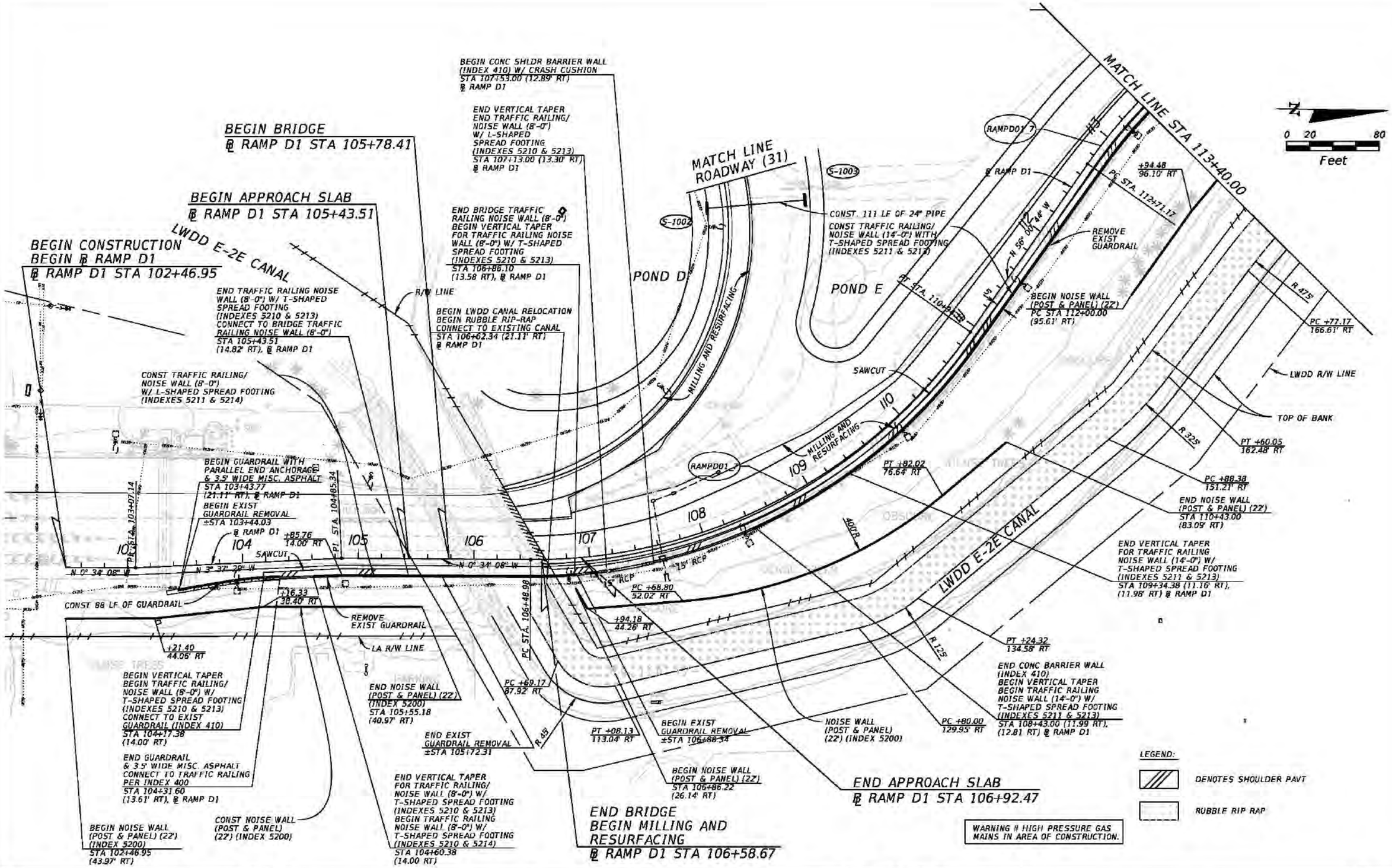
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (32)

SHEET NO.
87

Rob.Conklin 2/3/2017 3:51:10 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd32.dgn



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P.E. License No. 58123
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West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (33)

SHEET NO.
88

Rob.Conklin 2/3/2017 3:51:15 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd33.dgn

MATCH LINE PLAN 32

MATCH LINE STA 2429+20.00

MATCH LINE STA 2418+00.00

0 20 80
Feet

LA R/W LINE
R/W LINE
+72.68
225.50' LT
REMOVE EXIST INLET
POND F
CONST. 46 LF OF 18" PIPE
REMOVE EXIST PIPE
REMOVE EXIST INLET
S-320B
S-320A
NOISE WALL (POST & PANEL) (12') (INDEX 5200)
BEGIN EXIST GUARDRAIL REMOVAL ±STA 2420+60.13
BEGIN TRAFFIC RAILING/ NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5210 & 5214) END GUARDRAIL CONNECT TO TRAFFIC RAILING/ STA 2420+98.49, 74.00' LT = ℄ SURVEY SR 91 (SB) STA 3420+98.49, 48.00' LT
END NOISE WALL (POST & PANEL) (12') STA 2422+54.00 (91.54' LT)
BEGIN ℄ SURVEY SR 91 (SB) (FLORIDA'S TURNPIKE) STA 3420+00.00 = STA 2421+00.00 (26.00' LT) ℄ CONST SR 91 (FLORIDA'S TURNPIKE)
BEGIN BULKHEAD WALL STA 3422+60.00, 66.00' LT ℄ SURVEY SR 91 (SB)
LWDD R/W LINE
Vvh TH1342
Vvh TH1343
Vvh TH1344
Vvh TH1345
CONST TRAFFIC RAILING/ NOISE WALL (8'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5210 & 5214)
CONST. 2" OF 18" PIPE
Vvh TH1346
Vvh TH1347
CONST BULKHEAD WALL
REMOVE EXIST GUARDRAIL
LWDD E-2W CANAL
PC STA. 3427+97.14
+60.00
66.00' LT
Vvh TH1349
CONST. 2" OF 18" PIPE
CONST GUARDRAIL
CONST. 2" OF 18" PIPE
S-320
REMOVE EXIST GUARDRAIL
S-323
℄ SURVEY SR 91 (SB) (FLORIDA'S TURNPIKE)
S-327
PBC BFD
℄ CONST SR 91 (FLORIDA'S TURNPIKE)
PGL(LT)
3420 3421 3422 3423 3424 3425 3426 3427 3428 3429
CONST. 296' OF 18" PIPE
2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429
S-321A
S-321B
N 1° 00' 36" W
CONST. 296' OF 18" PIPE
CONST. 274' OF 18" PIPE
S-325
S-328
CONST. 183' OF 18" PIPE
S-321C
PGL(RT)
RELOCATED AT&T CONDUITS
REMOVE EXIST GUARDRAIL
SAWCUT
AT&T COAX
AT&T BURIED DUCTS (OUT OF SERVICE)
℄ SURVEY SR 91 (FLORIDA'S TURNPIKE)
REMOVE EXIST MEDIAN BARRIER WALL
PI STA. 127+41.40
CONST. 296' OF 18" PIPE
CONST GUARDRAIL
PT STA. 119+01.31
S-319
MILLING & RESURFACING
℄ RAMP D1
N 2° 58' 25" W
S-322
S-324
S-326
Vvh TH1031
Vvh TH1032
+32.98
15.00' RT
+09.10
18.44' RT
+09.24
58.44' RT
S-319A
CONST. 5' OF 18" PIPE
S-322A
S-324A
CONST VARIABLE HEIGHT MEDIAN BARRIER WALL
+99.28
13.40' RT
S-326A
+64.96
13.64' RT
REMOVE EXIST GUARDRAIL
LA R/W LINE
Vvh TH1034
Vvh TH1033
Vvh TH1036
Vvh TH1035
CONST TRAFFIC RAILING/ NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214)
Vvh TH1037
Vvh TH1038
Vvh TH223
Vvh TH224
Vvh TH225
Vvh TH226
+25.63
67.11' RT
END NOISE WALL (POST & PANEL) (22') STA 119+98.89 (15.28' RT)
END VARIABLE HEIGHT MEDIAN BARRIER WALL BEGIN MEDIAN BARRIER WALL STA 2421+00.00
LWDD E-2E CANAL
END MEDIAN BARRIER WALL BEGIN VARIABLE HEIGHT MEDIAN BARRIER WALL STA 2427+97.14
CONST NOISE WALL (POST & PANEL) (22') (INDEX 5200)
TOP OF BANK
LWDD R/W LINE
CONST NOISE WALL MAINTENANCE ACCESS (SEE MISC DETAILS)
BEGIN VERTICAL TAPER FOR TRAFFIC RAILING/ NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214) END GUARDRAIL CONNECT TO TRAFFIC RAILING/ NOISE WALL (14'-0") STA 118+98.56 (12.00' RT)
END VERTICAL TAPER FOR TRAFFIC RAILING/ NOISE WALL (14'-0") W/ L-SHAPED SPREAD FOOTING (INDEXES 5211 & 5214) STA 120+00.00 (12.00' RT)
RAMPD01_11
END LWDD CANEL RELOCATION END RUBBLE RIP-RAP CONNECT TO EXIST CANAL STA 119+04.94 (95.75' RT) ℄ RAMP D1

LEGEND:
- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- RUBBLE RIP RAP
- SAND CEMENT RIP-RAP

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (34)

SHEET NO. 89

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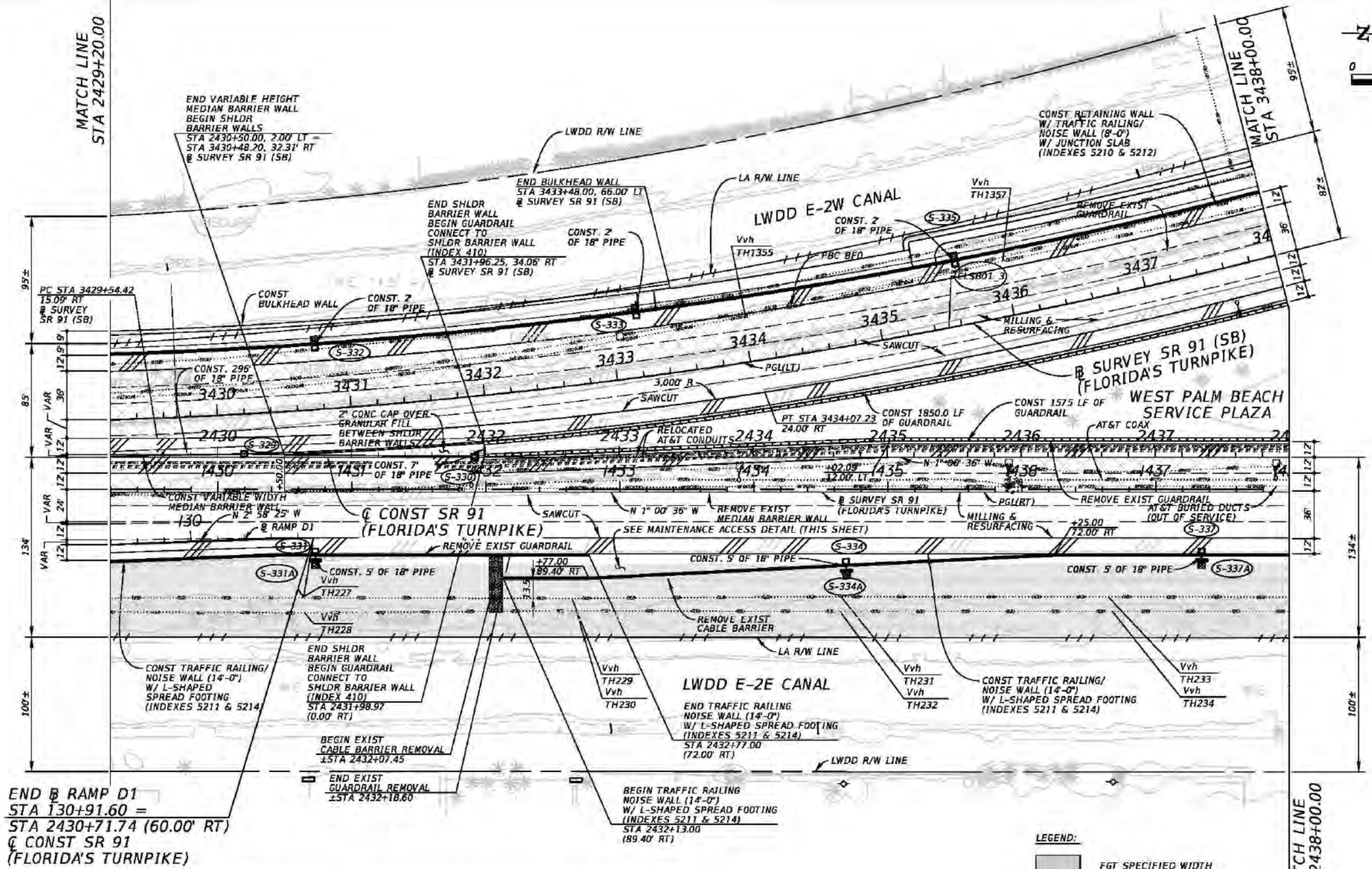

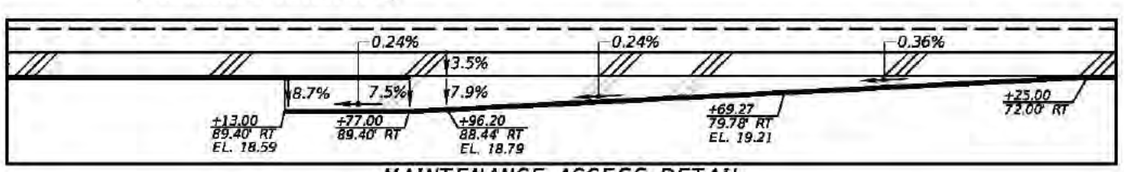

MAINTENANCE ACCESS DETAIL

REVISIONS			
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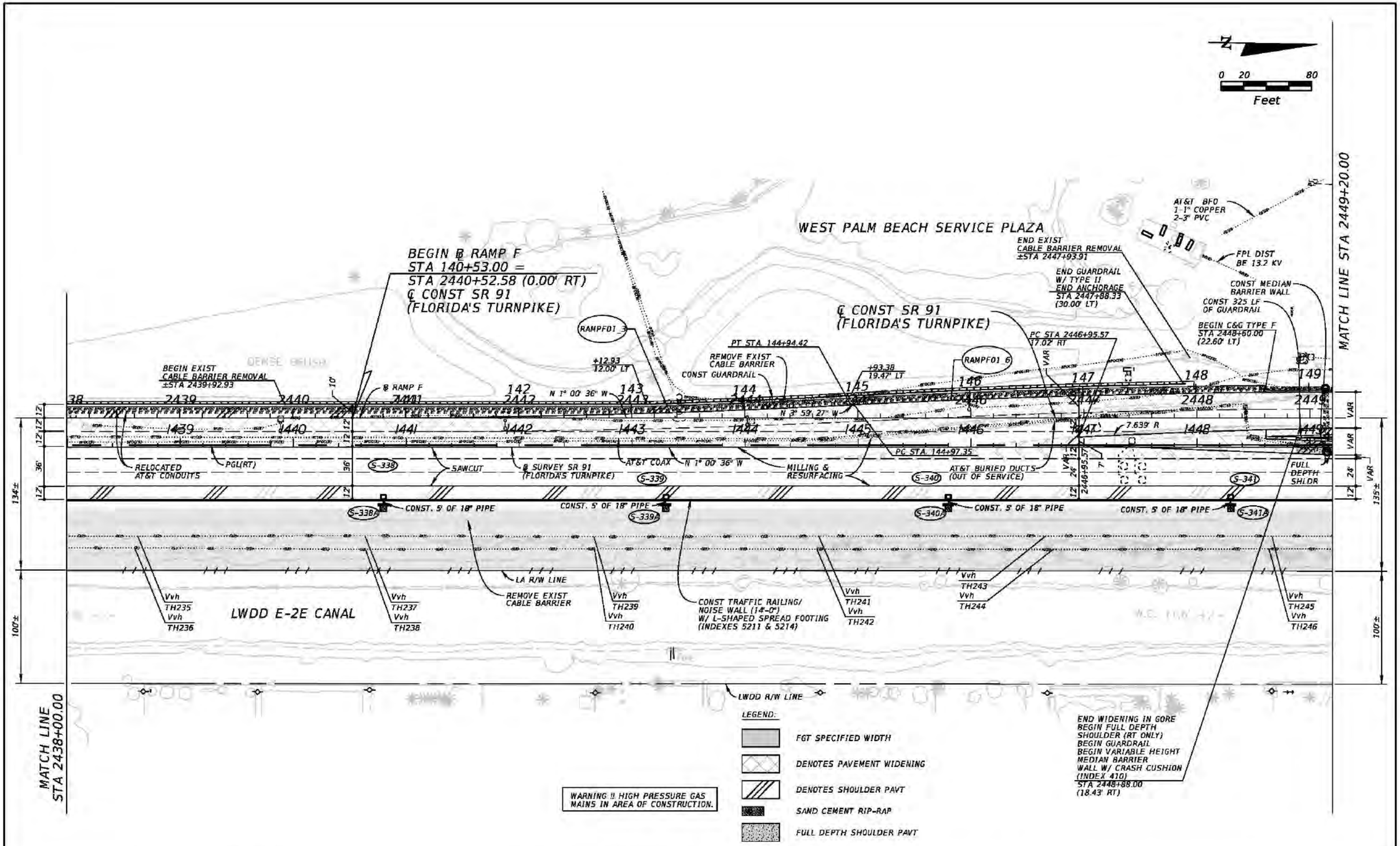
ROADWAY PLAN (35)

SHEET NO. 90

Rob.Conklin 2/3/2017 3:51:28 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd35.dgn



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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (36)

SHEET NO.
91

Rob.Conklin 2/3/2017 3:51:33 PM K:\WPB_Design\040195061_TPK_BB_to_LW\40614415201_Realign\roadway\plans\planrd36.dgn

MATCH LINE STA 2449+20.00

AT&T BFO
1-1" COPPER
2-3" PVC

℄ CONST SR 91
(FLORIDA'S
TURNPIKE)

END C&G TYPE F
CONNECT TO EXIST. C&G
STA 152+46.00
(0.00' RT)

END GUARDRAIL
END MISC ASPH PAVT
W/ TYPE II
END ANCHORAGE
STA 2447+88.33
(30.00' LT)

PT STA 2451+35.82
7.32' RT

RAMPF01_6

PC STA 149+86.72

FPL DI
BE 13.

POT STA 152+88.00

END ℄ RAMP F
STA 152+88.00 =
STA 2452+87.17 (20.65' LT)
℄ CONST SR 91
(FLORIDA'S TURNPIKE)

END OVERBUILD
℄ CONST FLORIDA'S
TURNPIKE (SR 91)
STA 2457+75.00

END PROJECT
℄ CONST SR 91
(FLORIDA'S TURNPIKE)
STA 2454+00.00

WEST PALM BEACH SERVICE PLAZA

END CONSTRUCTION
END MILLING & RESURFACING
℄ CONST FLORIDA'S
TURNPIKE (SR 91)
STA 2460+50.00
CONNECT TO EXIST

SECTION 44-42-21
SECTION 44-42-16

0 20 80
Feet

CONST MEDIAN
BARRIER WALL

CONST 312.5 LF
OF GUARDRAIL

REMOVE EXIST GUARDRAIL

END EXIST GUARDRAIL REMOVAL
END GUARDRAIL AND MISC ASPH PAVT
CONNECT TO EXIST GUARDRAIL
STA 2457+75.00 (24.00' RT)

7.639' R

@ RAMP F

N 0° 37' 15" W

N 1° 00' 36" W

AT&T COAX

VAR
VAR
VAR
24'
12'
12'
12'
12'
135±
100±

2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460

1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460

S-342
TRENCH DRAIN

+06.23
24.0' RT

PGL(RT)

CONST GUARDRAIL

S-344

MILLING &
RESURFACING

SAWCUT

S-344A

FULL DEPTH SHLDR

S-345

CONST 4.5'
MISC ASPH PAVT

N 1° 00' 36" W

CONST 475 LF
OF GUARDRAIL

MILLING &
RESURFACING

@ SURVEY SR 91
(FLORIDA'S TURNPIKE)

89°56'24"

AT&T BURIED DUCTS
(OUT OF SERVICE)

2460+11.00

S-343

S-343A

CONST. 5'
OF 18" PIPE

CONST TRAFFIC RAILING/
NOISE WALL (14'-0")
W/ L-SHAPED SPREAD FOOTING
(INDEXES 5211 & 5214)

END TRAFFIC RAILING/
NOISE WALL (14'-0")
W/ L-SHAPED SPREAD FOOTING
(INDEXES 5211 & 5214)
BEGIN GUARDRAIL
CONNECT TO TRAFFIC RAILING
PER INDEX 410
BEGIN 4.5' MISC ASPHALT PAVT
STA 2453+00.00
(72.00' RT)

REMOVE EXIST
CABLE BARRIER

END EXIST
CABLE BARRIER REMOVAL
±STA 2459+06.59

Vvh
TH247

Vvh
TH248

Vvh
TH249

Vvh
TH250

LA R/W LINE

Vvh
TH251

Vvh
TH252

Vvh
TH253

Vvh
TH254

Vvh
TH255

Vvh
TH256

BEGIN EXIST GUARDRAIL REMOVAL
±STA 2451+96.75
(23.60' RT)

LWDD E-2E CANAL

END VARIABLE HEIGHT
END FULL DEPTH SHOULDER
MEDIAN BARRIER WALL
BEGIN GUADRAIL & MISC ASPH PAVT
CONNECT GUARDRAIL TO MEDIAN
BARRIER WALL (INDEX 410)
STA 2454+64.00
(24.00' RT)

END GUARDRAIL
AND MISC ASPH PAVT
REMOVE EXIST PARALLEL
END ANCHORAGE ASSEMBLY
CONNECT TO EXIST GUARDRAIL
STA 2457+75.00 (71.70' RT)

LWDD R/W LINE

LEGEND:

- FGT SPECIFIED WIDTH
- DENOTES PAVEMENT WIDENING
- DENOTES SHOULDER PAVT
- SAND CEMENT RIP-RAP
- MILLING LIMITS MATCH EXIST. PAVEMENT ELEVATION
- FULL DEPTH SHOULDER PAVT

WARNING !! HIGH PRESSURE GAS
MAINS IN AREA OF CONSTRUCTION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
Certificate Of Authorization No. 696
Hooi Gin Ng, P.E.
P.E. License No. 58123
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (37)

SHEET NO.
92

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MATCH LINE STA 3438+00.00

MATCH LINE STA 3449+20.00

0 20 80
Feet

CONST RETAINING WALL W/ TRAFFIC RAILING/ NOISE WALL (8'-0") W/ JUNCTION SLAB (INDEXES 5210 & 5212)

END RETAINING WALL W/ TRAFFIC RAILING/ NOISE WALL (8'-0") W/ JUNCTION SLAB (INDEXES 5210 & 5212)

BEGIN RETAINING WALL W/ TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110) STA 3442+00.07 (48.00' LT)

CONST RETAINING WALL W/ TRAFFIC RAILING AND COPING W/ JUNCTION SLAB (INDEX 6110)

LWDD R/W LINE

LA R/W LINE

BEGIN EXIST CABLE BARRIER REMOVAL ±STA 3445+37.39

REMOVE EXIST CABLE BARRIER

END EXIST GUARDRAIL REMOVAL ±STA 2447+72.37

BEGIN EXIST GUARDRAIL REMOVAL ±STA 3441+21.05

LWDD E-2W CANAL

CONST. 20' OF TRIPLE 24" PIPE

CONST. 2' OF 18" PIPE

CONST. 28' OF 18" PIPE

PT STA. 3438+49.57

PBC BFO

℄ SB LANES SR 91 (FLORIDA'S TURNPIKE SB)

PGL LT

SAWCUT

N 16° 00' 36" W

MILLING & RESURFACING

3X24" RCP

12.00' RT

℄ RAMP E

CONST GUARDRAIL

REMOVE EXIST GUARDRAIL

BEGIN ℄ RAMP E
STA 143+50.00 =
STA 3443+43.42 (24.00' RT)
℄ SB LANES SR 91
(FLORIDA'S TURNPIKE SB)

WEST PALM BEACH SERVICE PLAZA

MATCH LINE STA 149+20.00

LEGEND:

DENOTES PAVEMENT WIDENING

DENOTES SHOULDER PAVT

SAND CEMENT RIP-RAP

WARNING !! HIGH PRESSURE GAS MAINS IN AREA OF CONSTRUCTION.

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (38)

SHEET NO. 93

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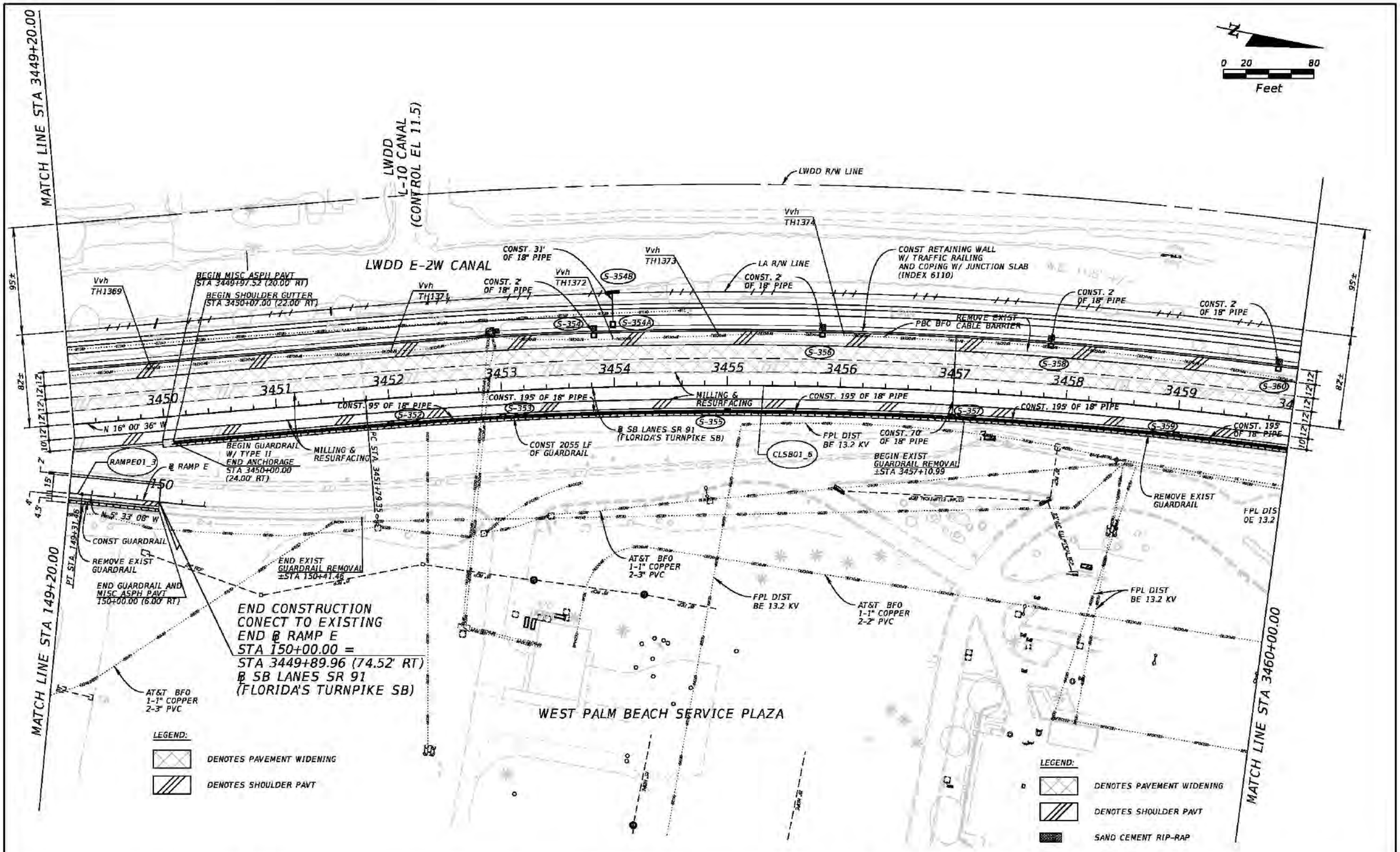

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (39)

SHEET NO. 94

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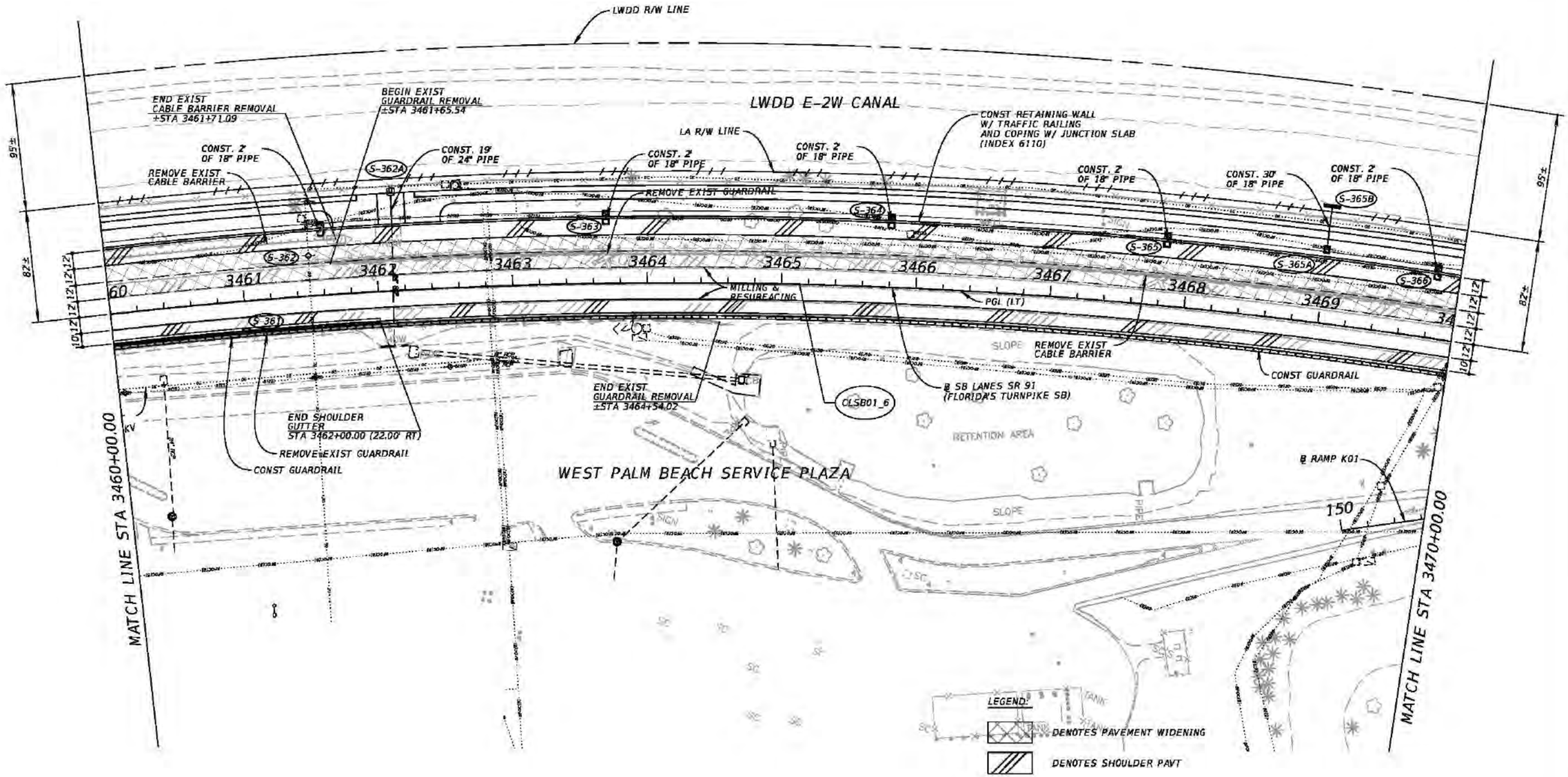

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (40)

SHEET NO.
95

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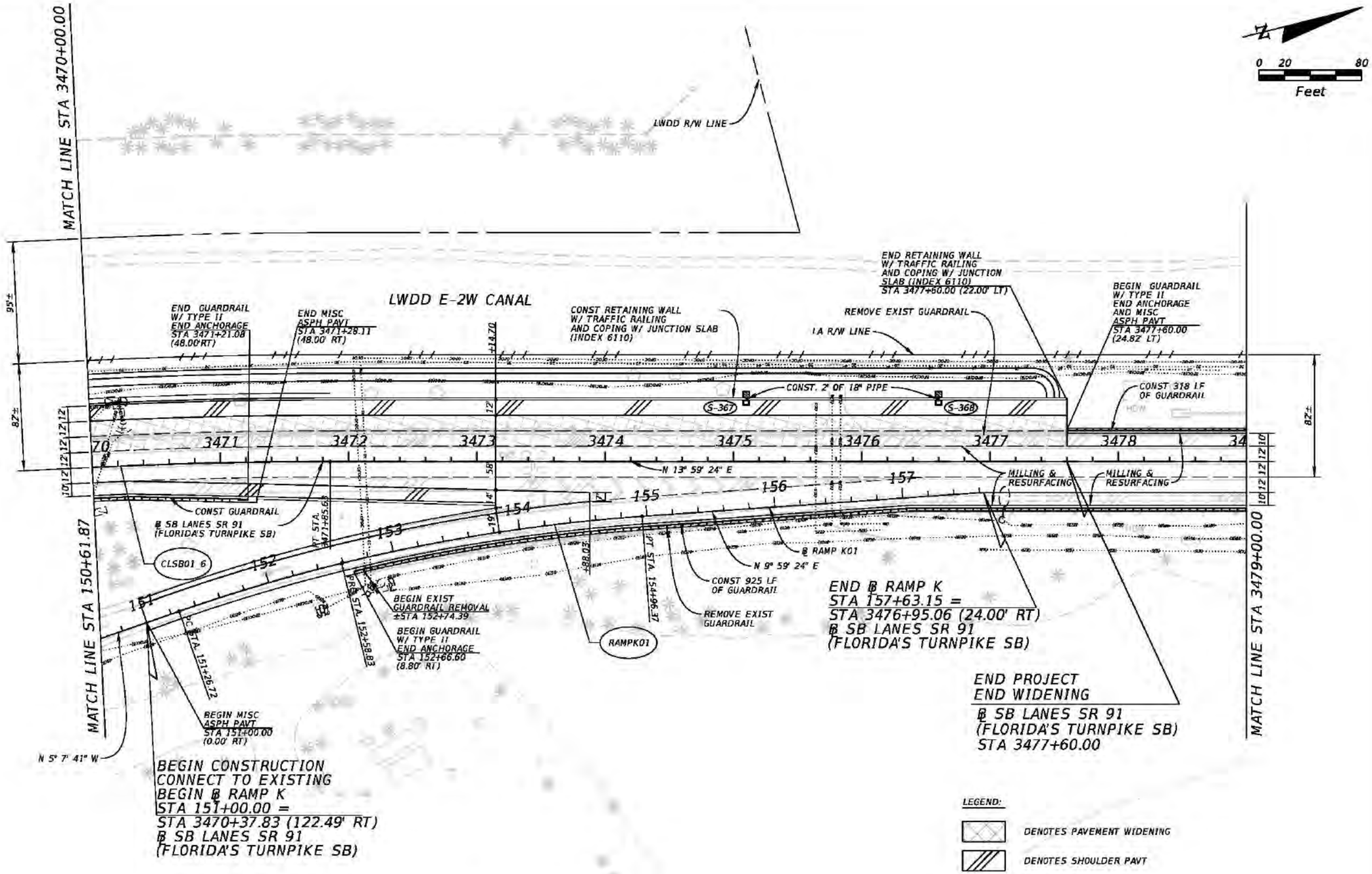

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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (41)

SHEET NO. 96

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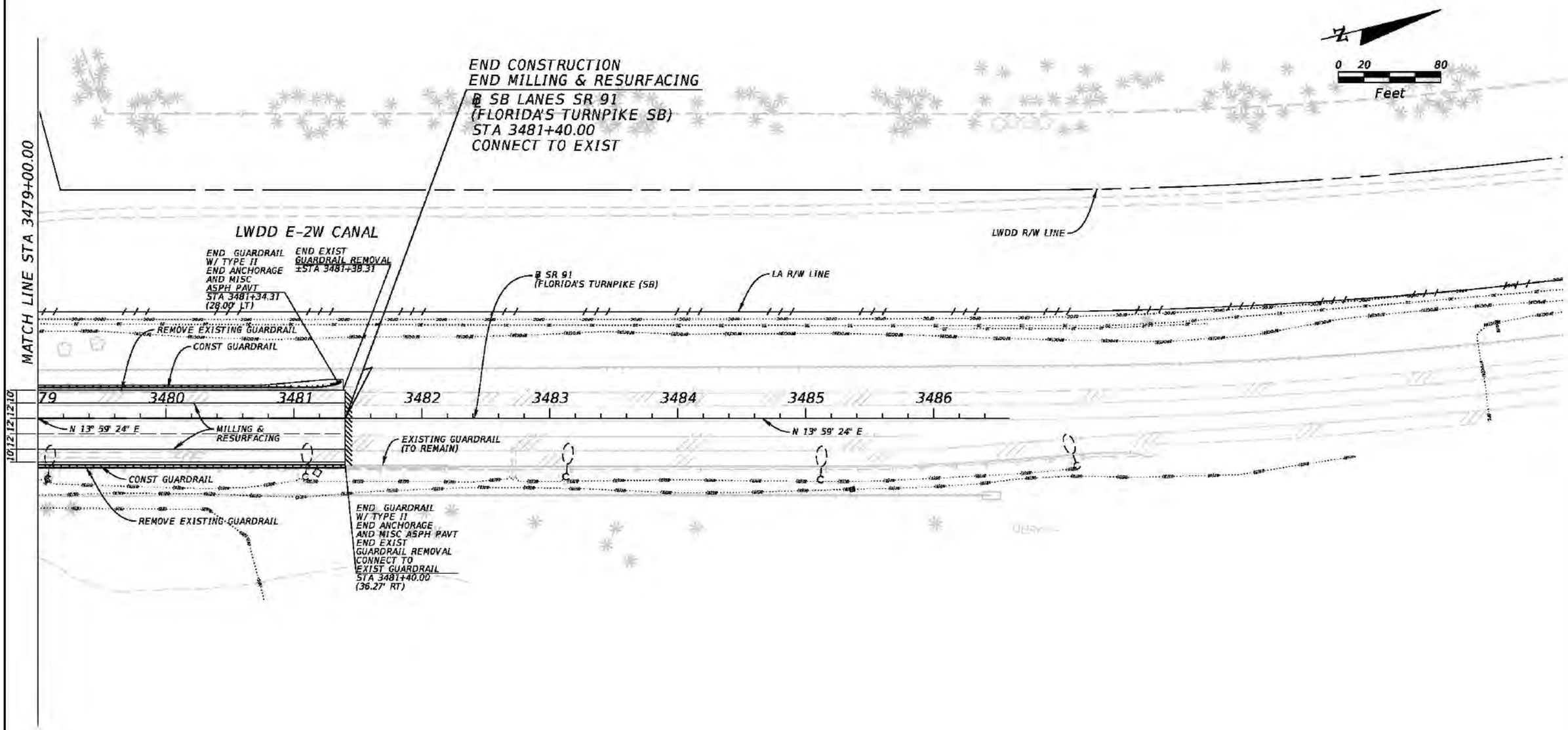

LEGEND:

DENOTES PAVEMENT WIDENING

DENOTES SHOULDER PAVT

REVISIONS			
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SR 91	PALM BEACH	406144-1-52-01

ROADWAY PLAN (42)

SHEET NO.
97

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