

CONTRACT PLANS COMPONENTS
 ROADWAY PLANS
 SIGNING AND PAVEMENT MARKING PLANS
 LIGHTING PLANS
 LANDSCAPE AND IRRIGATION PLANS
 STRUCTURAL PLANS

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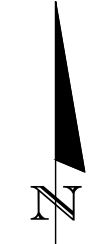
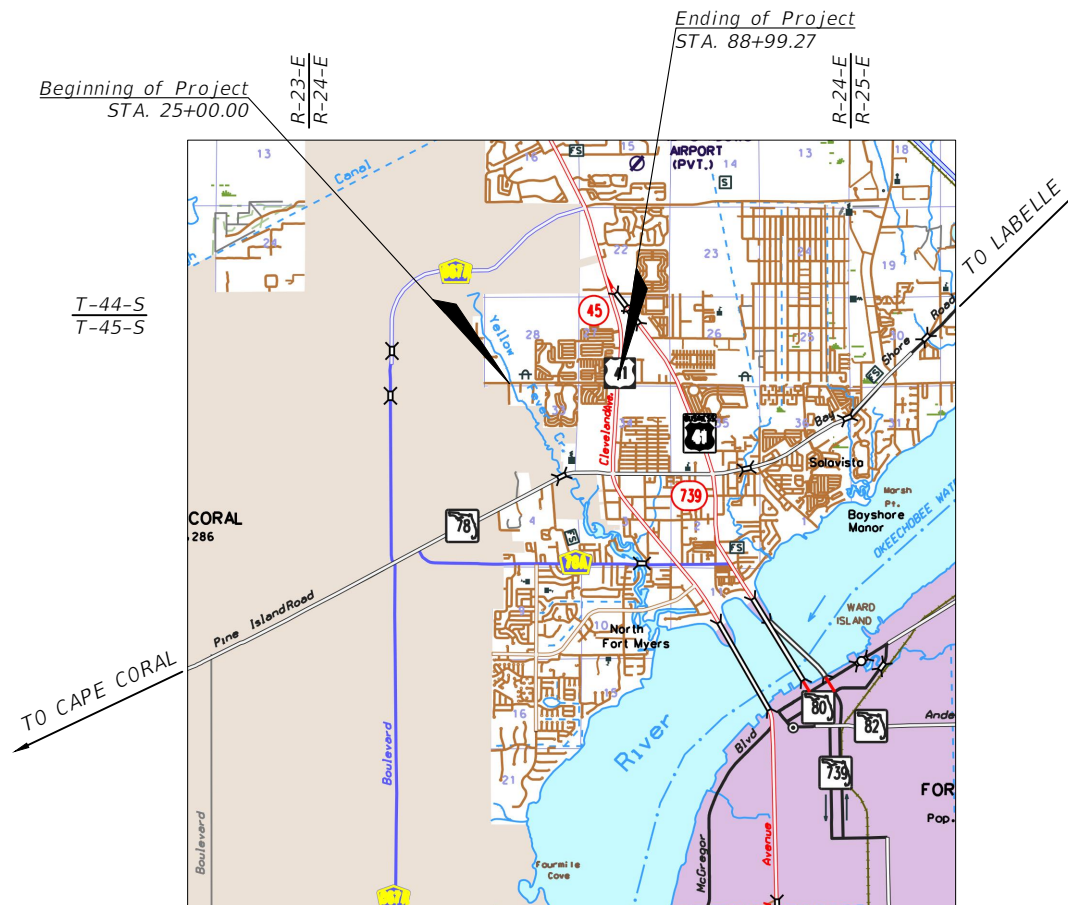
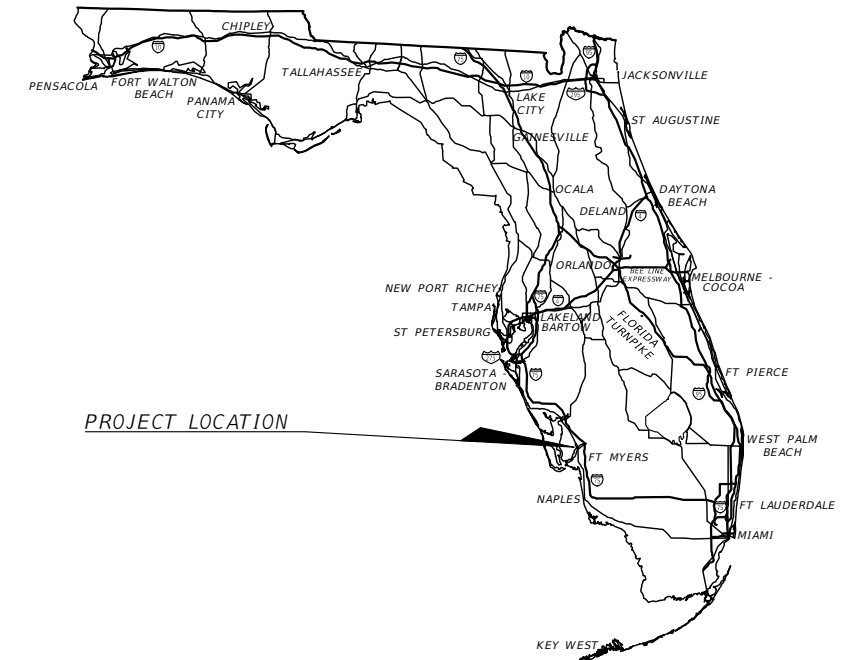
LEE COUNTY
 DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 442000-1-54-01

LITTLETON ROAD WIDENING
 FROM CORBETT ROAD TO U.S. 41
 LEE COUNTY (12)

ROADWAY PLANS



ROADWAY PLANS
 ENGINEER OF RECORD:

DANIEL M. CRAIG P.E.
 P.E. NO.:38590
 CARDNO, INC.
 1821 VICTORIA AVE.
 FORT MYERS, FL. 33901

LCDOT PROJECT MANAGER:
 VINCE MILLER P.E.

KEY SHEET REVISIONS

DATE	DESCRIPTION
9-22-21	Added Sheet Number 2A to Index

REVISIONS:

- △ Roadway Sheets: 1, 30, SQ-10 & SQ-11 (Rev. 09-22-21)
- △ SPM Sheets: S-2 thru S-3, S-7 thru S-8 (Rev. 09-22-21)
- △ SPM Sheets: S-2 thru S-3, S-9 thru S-10 (Rev. 10-11-21)

GOVERNING STANDARD PLANS:
 Florida Department of Transportation, FY 2021-22 Standard plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

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

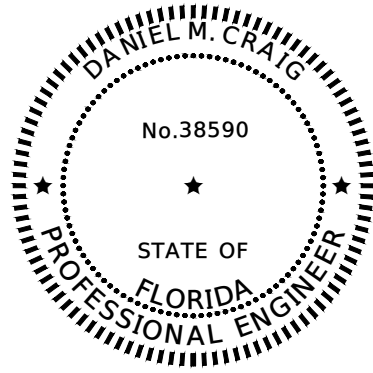
APPLICABLE IRs: IR536-001-01, IR521-001-01

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

GOVERNING STANDARD SPECIFICATIONS:
 Florida Department of Transportation, July, 2021 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CIP NO.	CONTRACT NO.	FISCAL YEAR	SHEET NO.
5028	CN190114	2021	1

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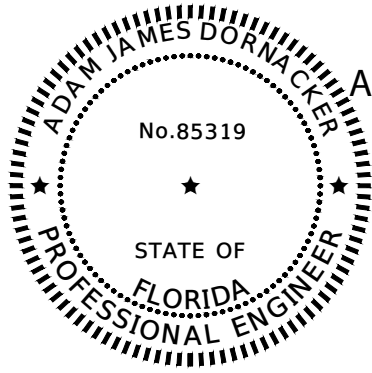
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 Digitally signed by Daniel M Craig
 Date: 2021.10.26 11:52:45 -04'00'

ON THE DATE ADJACENT TO THE SEAL
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DAVID DOUGLAS ASSOCIATES, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901
 PHONE NO.: 239-337-3330
 CERTIFICATE OF AUTHORIZATION NO. 7568
 DANIEL M. CRAIG, P.E. 38590

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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2	SIGNATURE SHEET
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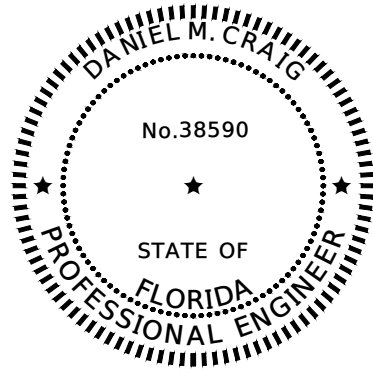
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GFA INTERNATIONAL
 201 WALDO AVE NORTH
 LEHIGH ACRES, FL 33971
 PHONE NO.: 239-489-2443
 CERTIFICATE OF AUTHORIZATION NO. 4930
 ADAM JAMES DORNACKER, P.E. 85319

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G1-16.005, F.A.C.

SHEET NO.	SHEET DESCRIPTION
GR-1 - GR-3	ROADWAY SOIL SURVEY

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE. FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---				LITTLETON ROAD	LEE	CN190114		2



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Daniel M Craig
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 Date: 2021.10.26 11:43:04 -0400

ON THE DATE ADJACENT TO THE SEAL

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 FORT MYERS, FL 33901
 PHONE NO.: 239-337-3330
 CERTIFICATE OF AUTHORIZATION NO. 7568
 DANIEL M. CRAIG, P.E. 38590

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<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	KEY SHEET
2A	SIGNATURE SHEET
30	ROADWAY PLAN AND PROFILE
SQ-10 - SQ-11	SUMMARY OF QUANTITIES

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
9-22-21	Added sheet.		

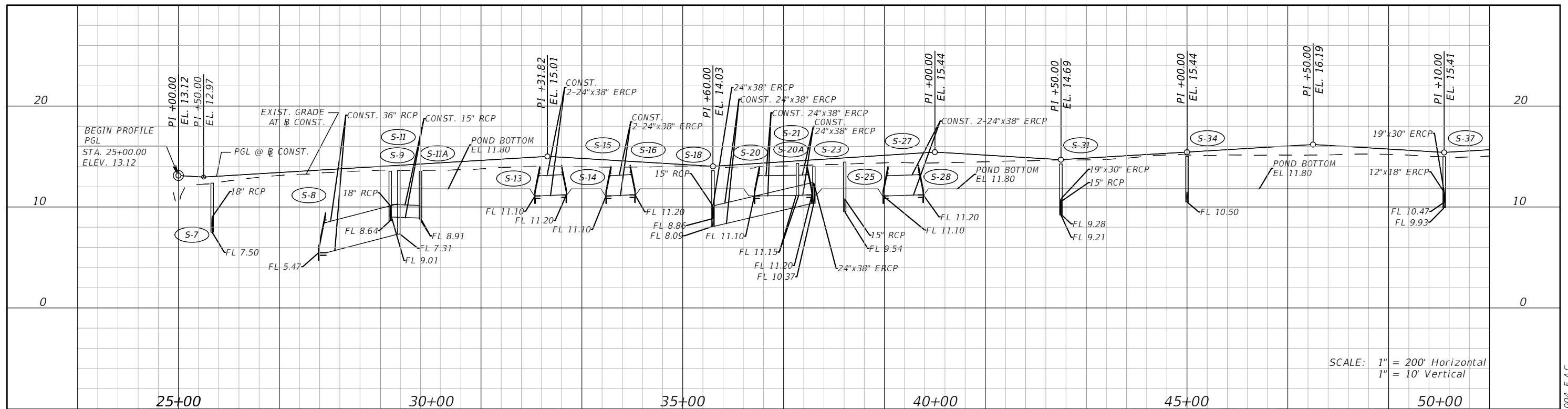
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 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

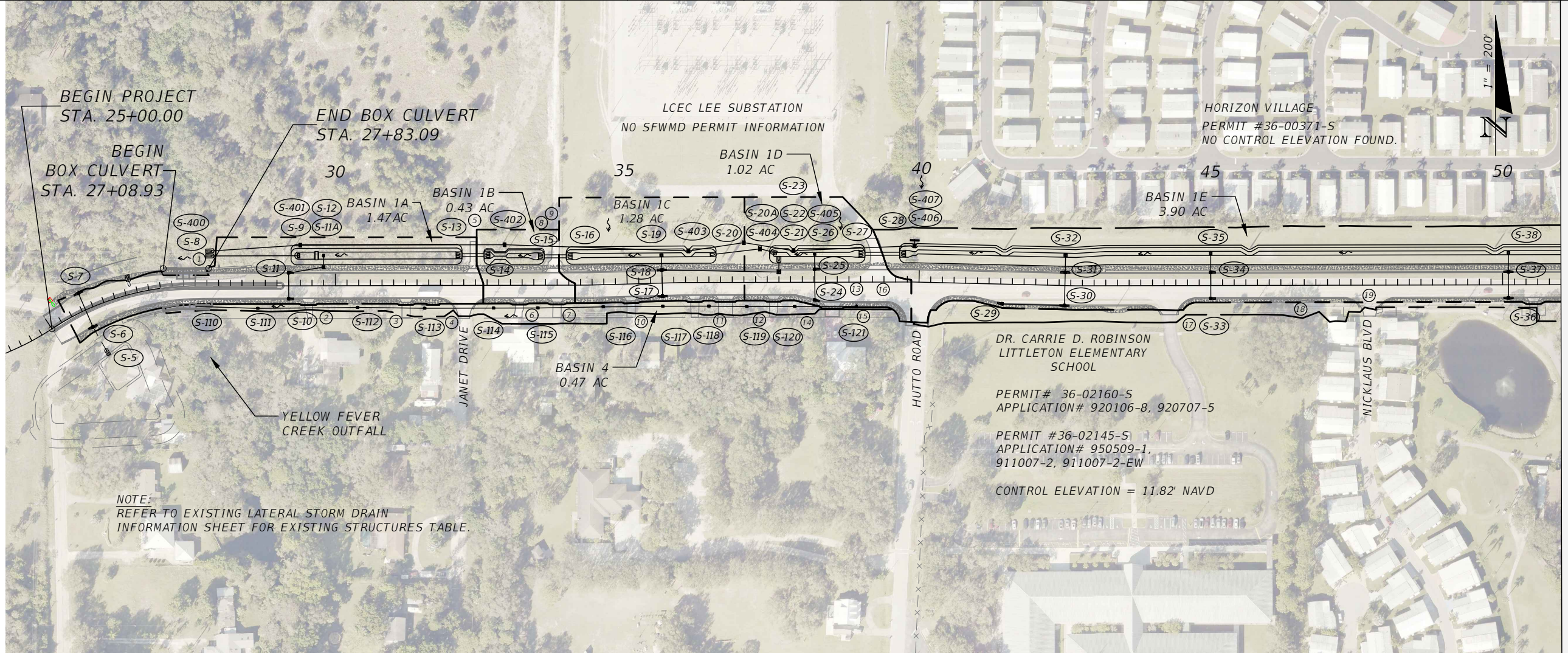
SIGNATURE SHEET

SHEET NO.

2A



SCALE: 1" = 200' Horizontal
1" = 10' Vertical



NOTE:
REFER TO EXISTING LATERAL STORM DRAIN
INFORMATION SHEET FOR EXISTING STRUCTURES TABLE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

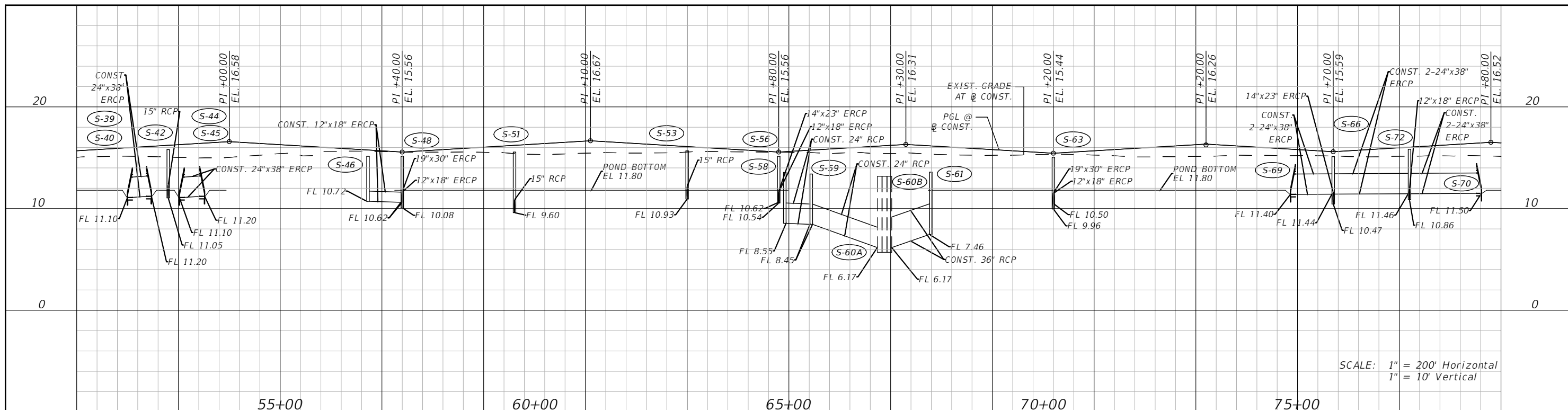
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P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

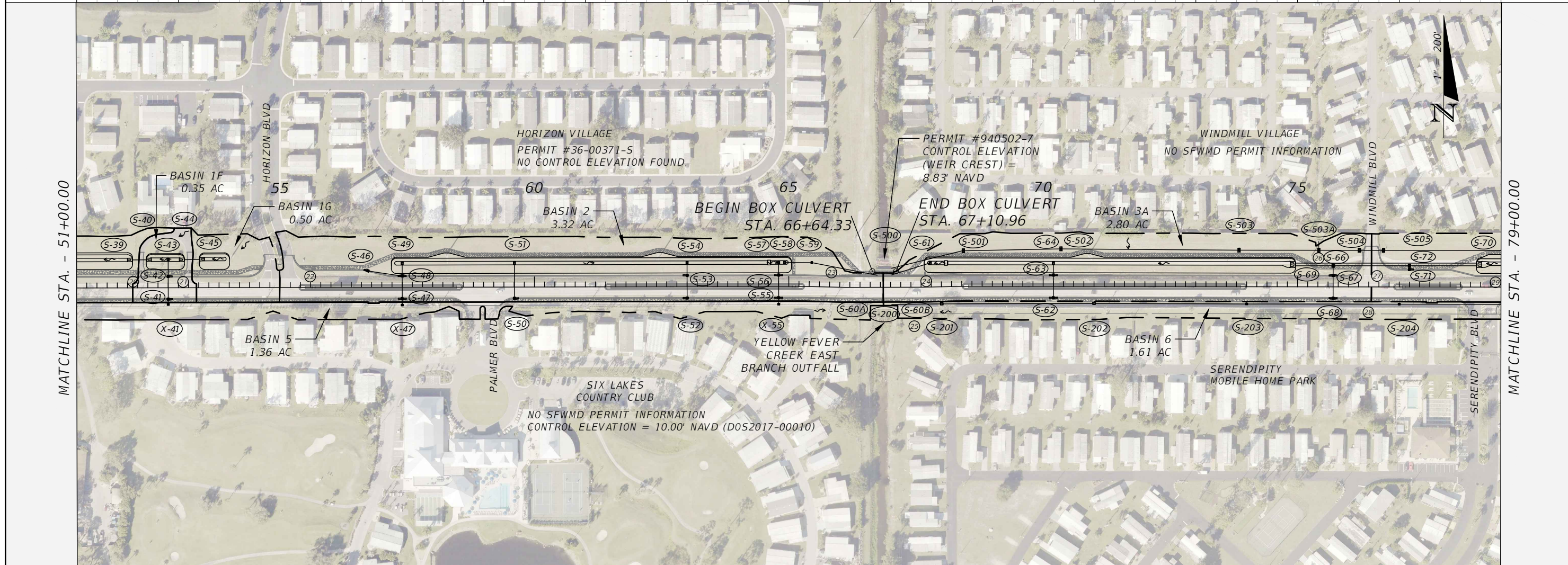
DRAINAGE MAP

SHEET NO.
3

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SCALE: 1" = 200' Horizontal
1" = 10' Vertical

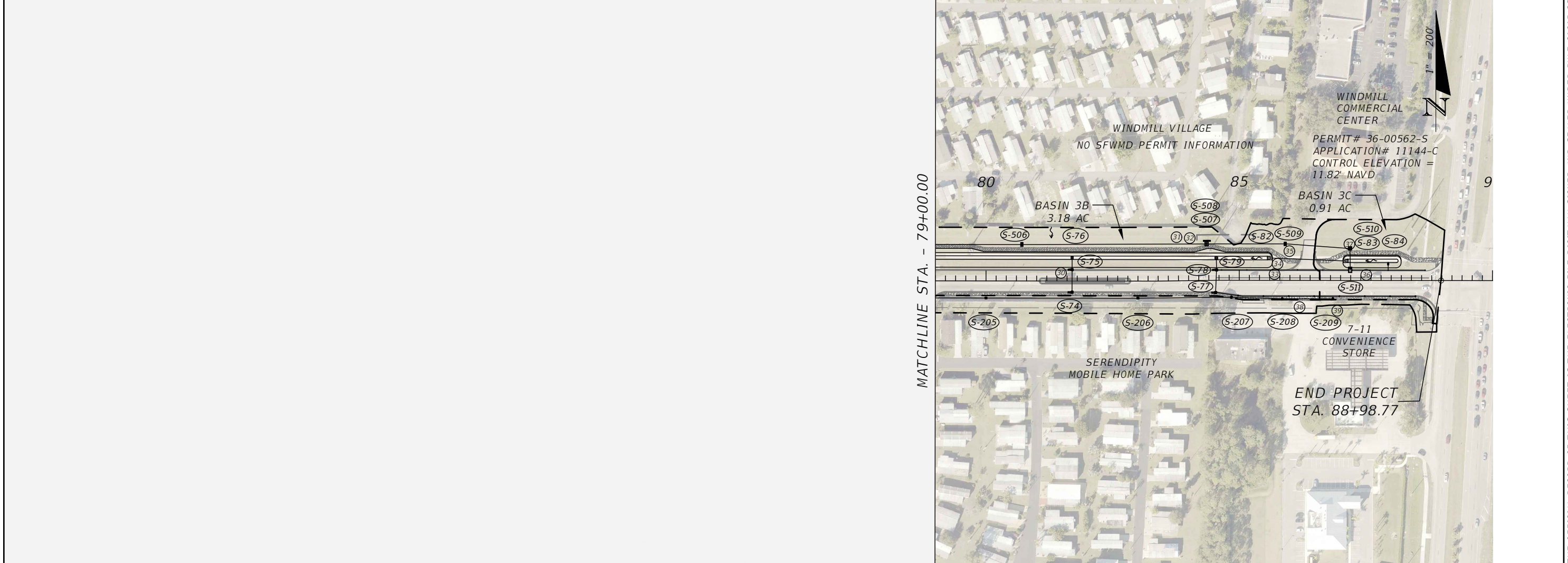
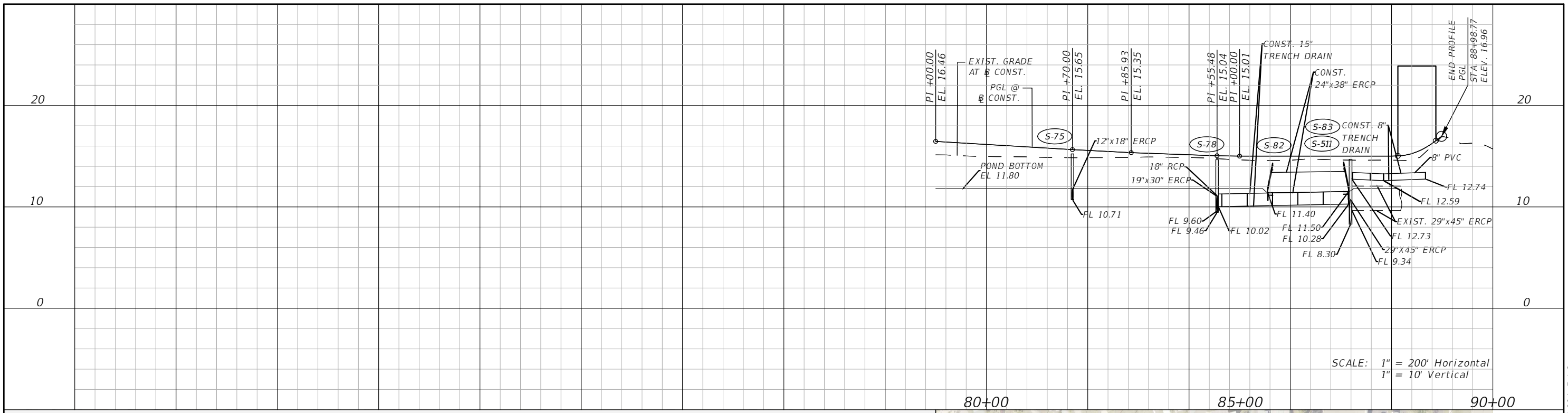


MATCHLINE STA. - 51+00.00

MATCHLINE STA. - 79+00.00

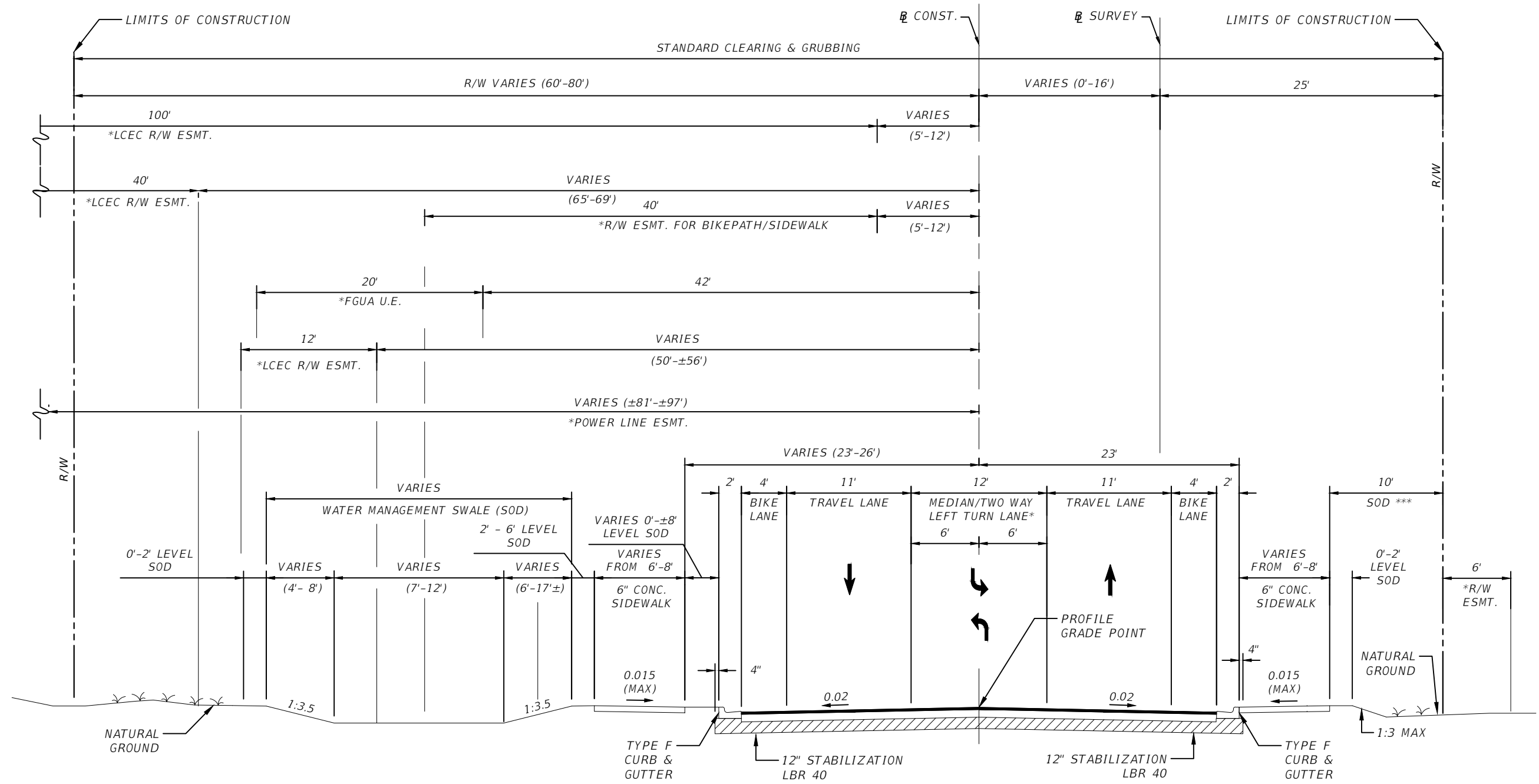
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME.	COUNTY	CONTRACT NO.	
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
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TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 9,482
 ESTIMATED OPENING YEAR = 2022 AADT = 11,404
 ESTIMATED DESIGN YEAR = 2042 AADT = 24,220
 K = 10.5% D = 61.5% T = 4% (24 HOUR)
 DESIGN HOUR T = 2%
 DESIGN SPEED = 40 MPH

TYPICAL SECTION
STA. 25+00.00 TO STA. 26+99.48
STA. 27+83.93 TO STA. 56+74.19

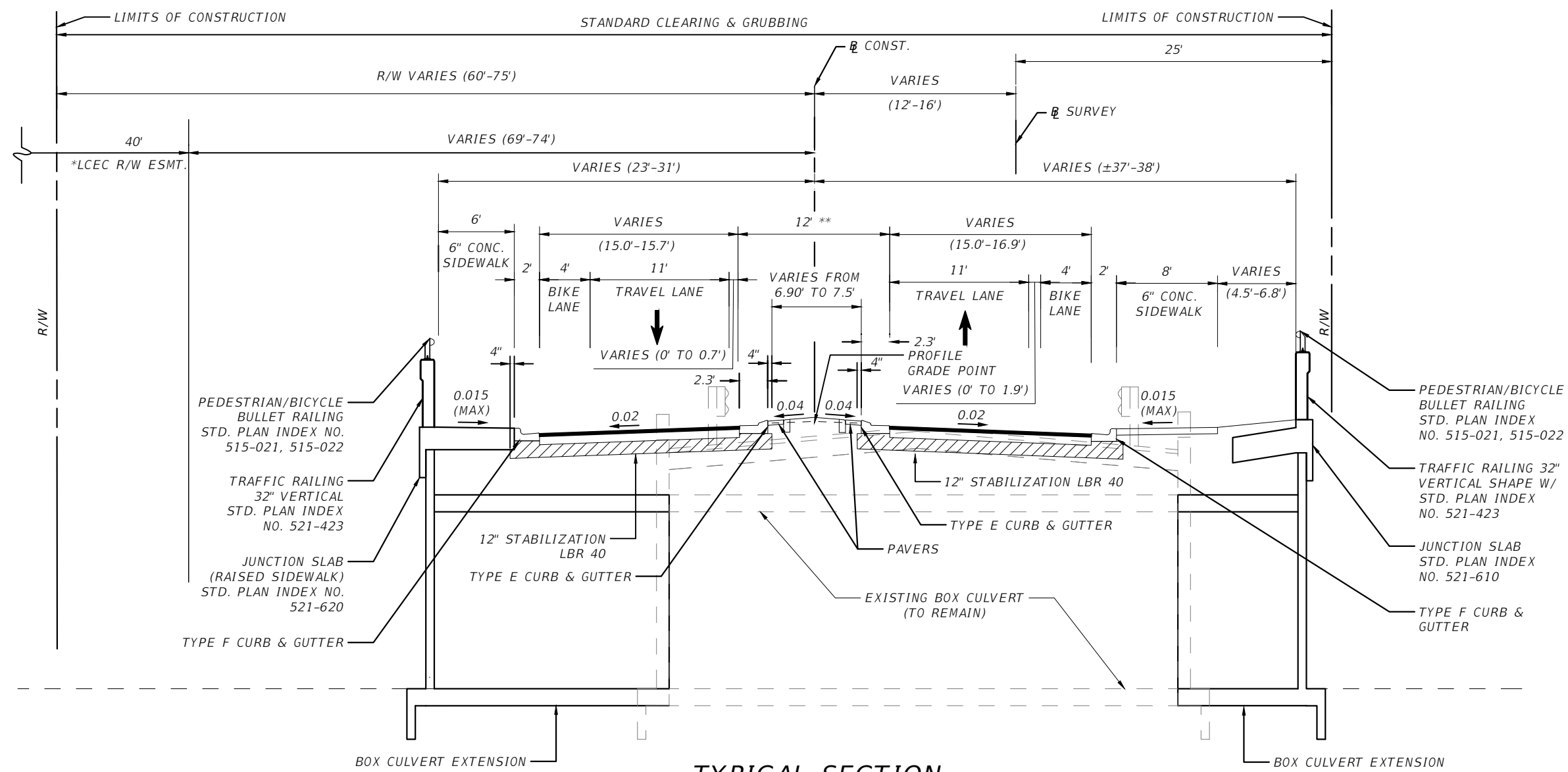
NEW CONSTRUCTION
 OPTIONAL BASE GROUP 6 WITH
 TYPE SP-12.5 STRUCTURAL COURSE (1.5")
 AND FRICTION COURSE FC-9.5, PG 76-22 (1")

- * NOTES:**
- 6' R/W ESMT. FROM STA. 40+13.54 TO STA. 46+62.51 RT.
 - 12' LCEC R/W ESMT. CENTERED ON POLES FROM STA. 40+18.13 TO STA. 52+13.95 & FROM STA. 53+38.66 TO STA. 66+13.55 LT.
 - 20' FGUA U.E. FROM STA. 52+13.99 TO STA. 53+38.64 LT.
 - 40' LCEC R/W ESMT. FROM STA. 25+00 TO STA. 39+89.36 LT.
 - 100' LCEC R/W ESMT. FROM STA. 52+14.34 TO STA. 53+38.76 LT.
 - 40' R/W FOR BIKE PATH/SIDEWALK FROM STA. 55+26.32 TO STA. 88+60.91 LT.
 - POWER LINE ESMT. FROM STA. 33+89.20 TO STA. 39+89.45 LT.
 - SEE TYPICAL SECTION DETAILS FOR CURBED MEDIAN LIMITS.
 - TURN LANE NOT SHOWN FOR CLARITY. REFER TO PLAN AND PROFILE AND CROSS SECTIONS FOR MORE DETAIL.

*** SEE TYPICAL SECTION DETAILS FOR MORE INFORMATION.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL, 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
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**TYPICAL SECTION
BOX CULVERT (3 - 10'X7')
AT YELLOW FEVER CREEK
STA. 26+99.48 TO STA. 27+83.93**

TRAFFIC DATA

CURRENT YEAR	= 2019 AADT = 9,482	
ESTIMATED OPENING YEAR	= 2022 AADT = 11,404	
ESTIMATED DESIGN YEAR	= 2042 AADT = 24,220	
K = 10.5%	D = 61.5%	T = 4% (24 HOUR)
DESIGN HOUR T	= 2%	
DESIGN SPEED	= 40 MPH	

NEW CONSTRUCTION
OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (1.5")
AND FRICTION COURSE FC-9.5, PG 76-22 (1")

*** NOTES:**
1. 40' LCEC R/W ESMT. FROM STA. 25+00 TO STA. 39+89.36 LT.
** SEE TYPICAL SECTION CURBED MEDIAN
DETAIL FOR MORE INFORMATION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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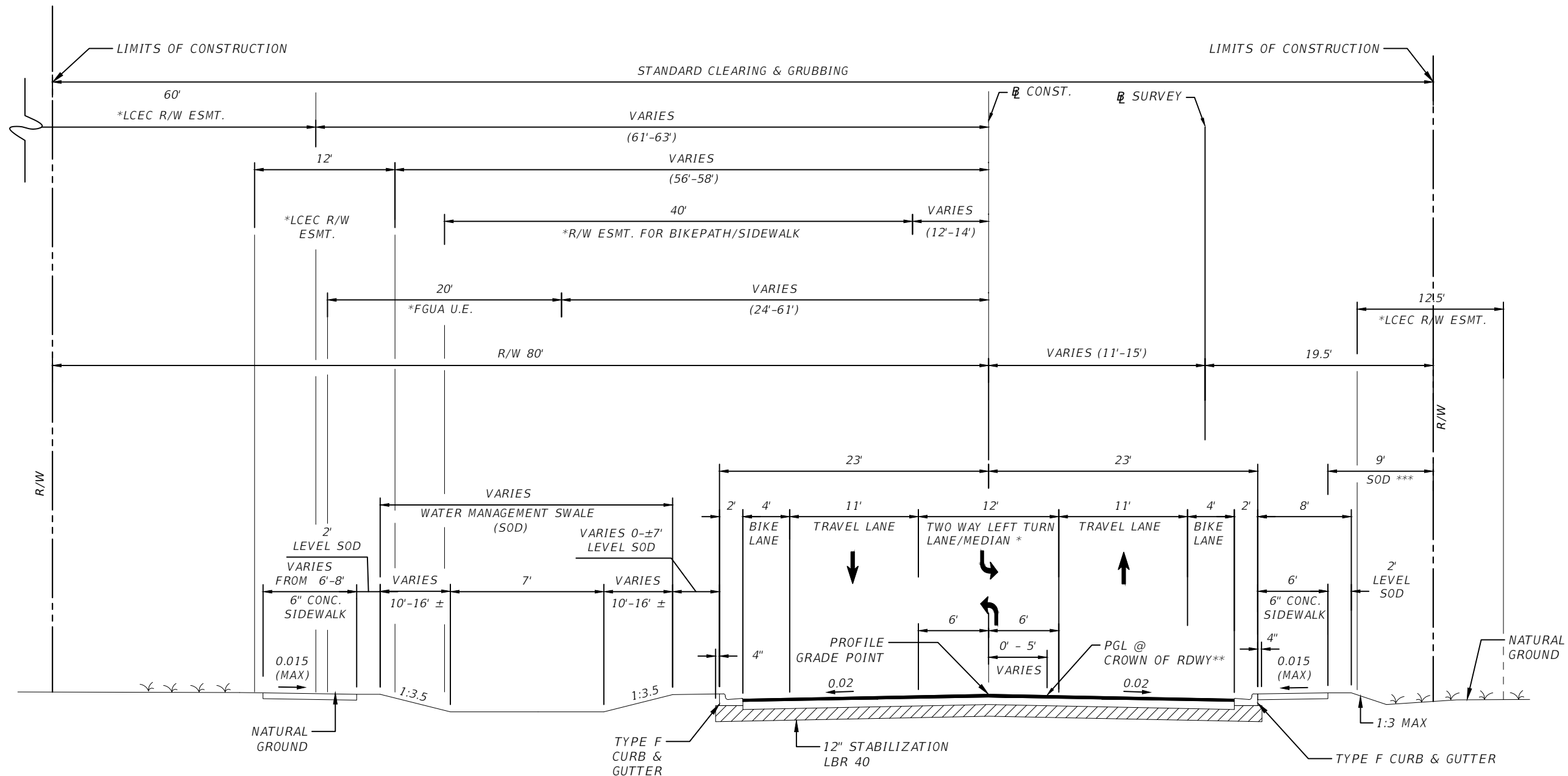
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL, 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TYPICAL SECTION (2)

SHEET NO.
7

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TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 9,482
 ESTIMATED OPENING YEAR = 2022 AADT = 11,404
 ESTIMATED DESIGN YEAR = 2042 AADT = 24,220
 K = 10.5% D = 61.5% T = 4% (24 HOUR)
 DESIGN HOUR T = 2%
 DESIGN SPEED = 40 MPH

TYPICAL SECTION
STA. 56+74.19 TO STA. 66+73.86
STA. 67+02.19 TO STA. 84+55.48

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
 TYPE SP-12.5 STRUCTURAL COURSE (1.5")
 AND FRICTION COURSE FC-9.5, PG 76-22 (1")

*** NOTES:**

- 12.5' LCEC R/W ESMT. CENTERED ON POLES FROM STA. 66+88.17 TO STA. 88+53.71 RT.
- 12' LCEC R/W ESMT. CENTERED ON POLES FROM STA. 53+38.66 TO STA. 66+13.55 LT.
- 20' FGUA U.E. FROM STA. 66+13.39 TO STA. 85+68.72 LT.
- 40' R/W FOR BIKE PATH/SIDEWALK FROM STA. 55+26.32 TO STA. 88+60.91 LT.
- 60' LCEC ESMT. FROM STA. 66+88.51 TO STA. 88+62.49 LT.
- SEE TYPICAL SECTION DETAILS FOR CURBED MEDIAN LIMITS.
- TURN LANE NOT SHOWN FOR CLARITY. REFER TO PLAN AND PROFILE AND CROSS SECTIONS FOR MORE DETAIL.

** PGL SHIFTS FROM \mathbb{E} CONST. TO CROWN OF ROADWAY AT STA. 82+85.93 TO STA. 88+99.27. SEE GRADING DETAIL SHEET FOR MORE INFORMATION.

*** SEE TYPICAL SECTION DETAILS FOR MORE INFORMATION.

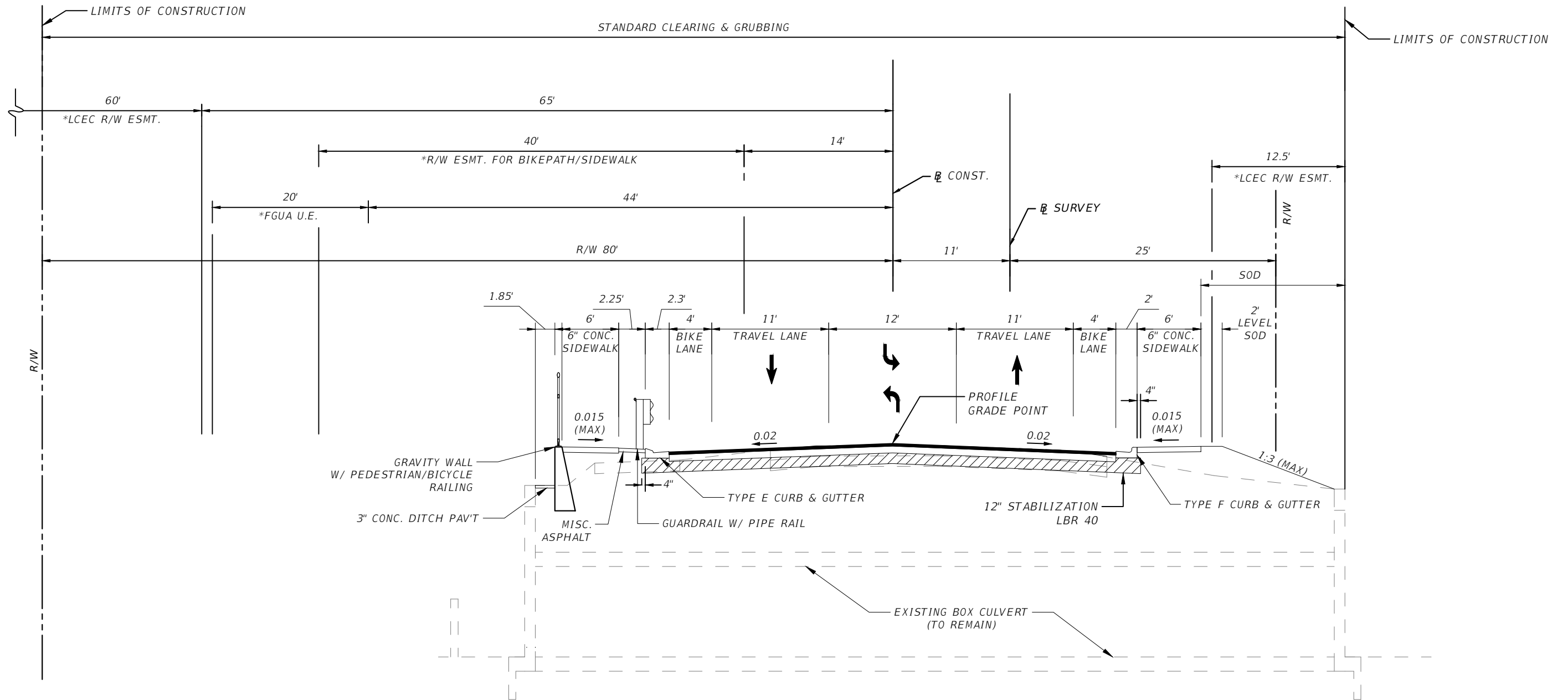
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL, 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TYPICAL SECTION (3)

SHEET NO.
8



TRAFFIC DATA

EXISTING YEAR = 2019 AADT = 9,482
 ESTIMATED OPENING YEAR = 2022 AADT = 11,404
 ESTIMATED DESIGN YEAR = 2042 AADT = 24,220
 K = 10.5% D = 61.5% T = 4% (24 HOUR)
 DESIGN HOUR T = 2%
 DESIGN SPEED = 40 MPH

**TYPICAL SECTION
 LITTLETON RD.
 BOX CULVERT (3 - 9'x4.25')
 EAST BRANCH OF YELLOW FEVER CREEK
 STA. 66+73.86 TO STA. 67+02.19**

NEW CONSTRUCTION
 OPTIONAL BASE GROUP 6 WITH
 TYPE SP-12.5 STRUCTURAL COURSE (1.5")
 AND FRICTION COURSE FC-9.5, PG 76-22 (1")

*** NOTES:**

- 12.5' LCEC R/W ESMT. CENTERED ON POLES FROM STA. 66+88.17 TO STA. 88+53.71 RT.
- 20' FGUA U.E. FROM STA. 66+13.39 TO STA. 85+68.72 LT.
- 40' R/W FOR BIKE PATH/SIDEWALK FROM STA. 55+26.32 TO STA. 88+60.91 LT.
- 60' LCEC ESMT. FROM STA. 66+88.51 TO STA. 88+62.49 LT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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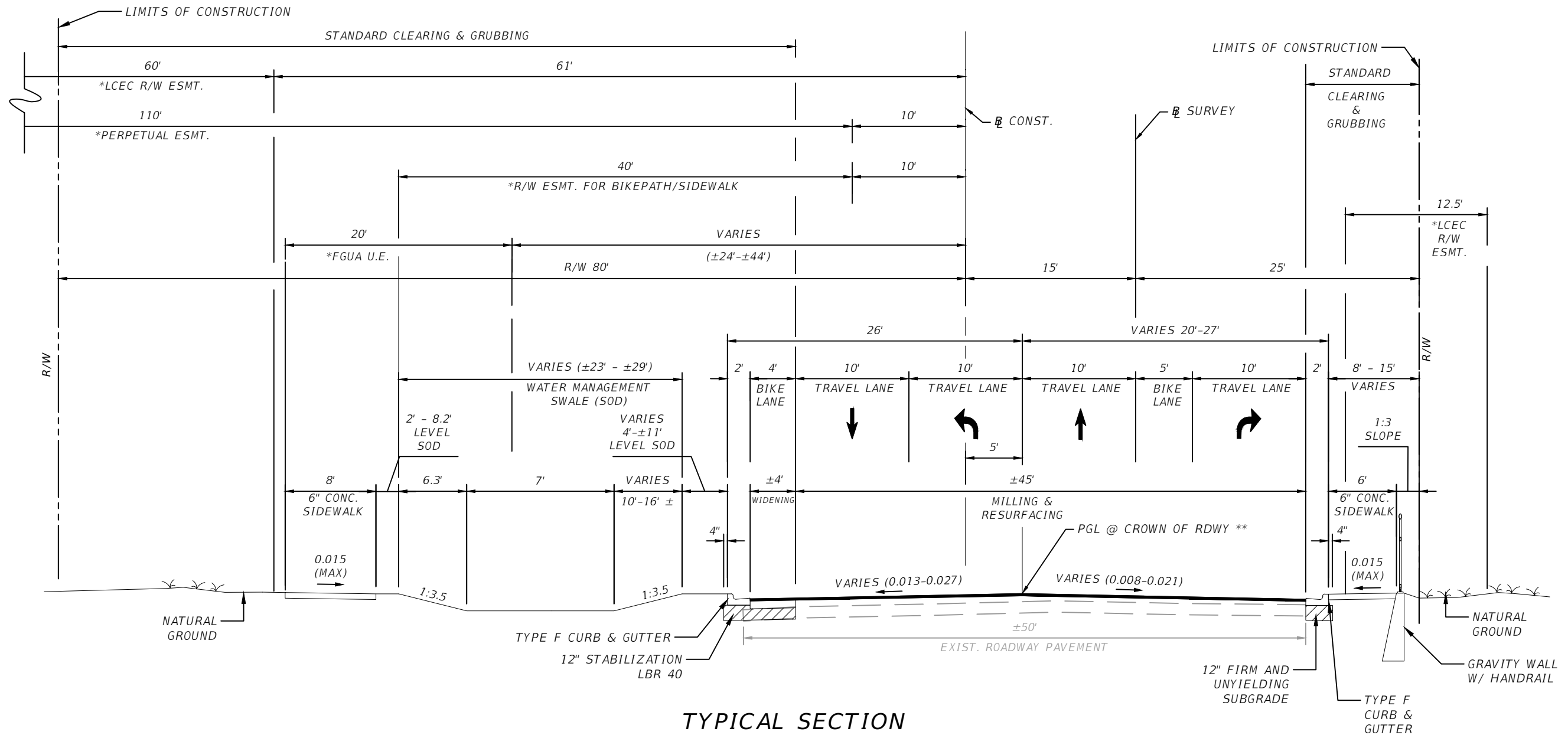
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 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE.
 FORT MYERS, FL, 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TYPICAL SECTION (4)

SHEET NO.
9

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**TYPICAL SECTION
STA. 84+55.48 TO STA. 88+56.88**

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 9,482
 ESTIMATED OPENING YEAR = 2022 AADT = 11,404
 ESTIMATED DESIGN YEAR = 2042 AADT = 24,220
 K = 10.5% D = 61.5% T = 4% (24 HOUR)
 DESIGN HOUR T = 2%
 DESIGN SPEED = 40 MPH

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (1")

RESURFACING

FRICTION COURSE FC-9.5 (1")

OVERBUILD

TYPE SP STRUCTURAL COURSE

WIDENING

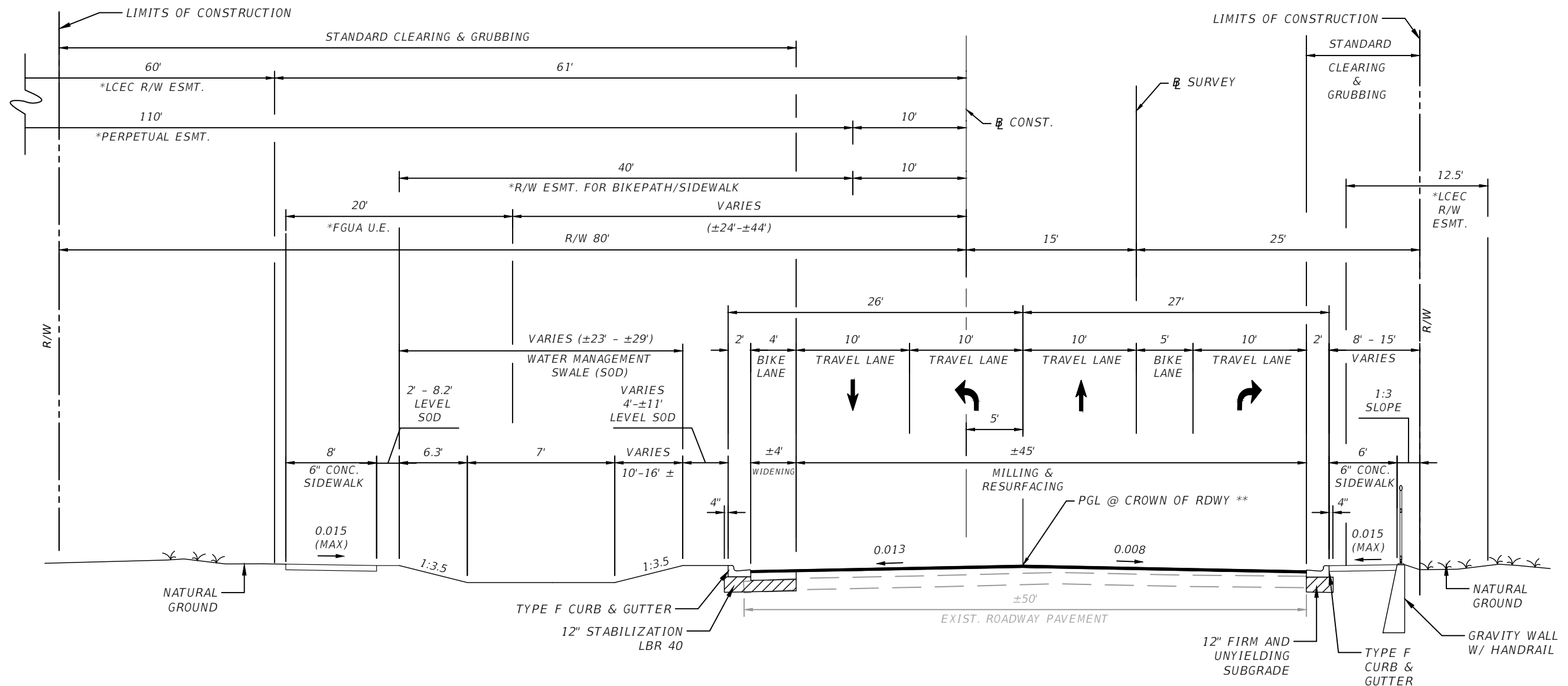
OPTIONAL BASE GROUP 6 WITH
 TYPE SP-12.5 STRUCTURAL COURSE (1.5")
 AND FRICTION COURSE FC-9.5, PG 76-22 (1")

*** NOTES:**

- 12.5' LCEC R/W ESMT. CENTERED ON POLES FROM STA. 66+88.17 TO STA. 88+53.71 RT.
- 20' FGUA U.E. FROM STA. 66+13.39 TO STA. 85+68.72 LT.
- 40' R/W FOR BIKE PATH/SIDEWALK FROM STA. 55+26.32 TO STA. 88+60.91 LT.
- 60' LCEC ESMT. FROM STA. 66+88.51 TO STA. 88+62.49 LT.
- 110' PERPETUAL ESMT. FROM STA. 85+76.90 TO STA. 88+68.29 LT.
- QUICK KURB WITH MARKERS TO BE INSTALLED FROM STA. 84+55.64 TO STA. 88+74.18.
- TURN LANE NOT SHOWN FOR CLARITY. REFER TO PLAN AND PROFILE AND CROSS SECTIONS FOR MORE DETAIL.

** PGL SHIFTS FROM \pm CONST. TO CROWN OF ROADWAY AT STA. 82+85.93 TO STA. 88+99.27.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL, 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
----	----	----	----		LITTLETON ROAD	LEE	CN190114	



TYPICAL SECTION
STA. 88+56.88 TO STA. 88+99.27

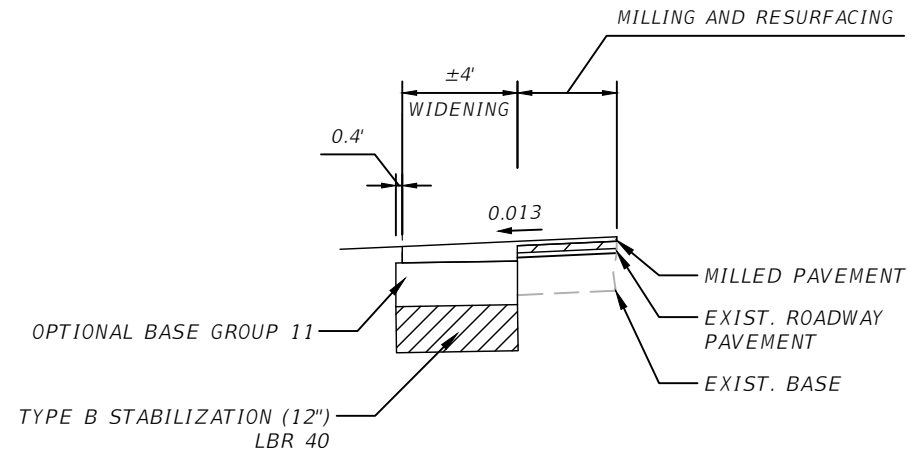
- MILLING**
MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1.5")
- RESURFACING**
FRICTION COURSE FC-12.5, PG 76-22 (1.5")
- OVERBUILD**
TYPE SP STRUCTURAL COURSE
- WIDENING**
OPTIONAL BASE GROUP 11 WITH TYPE SP-12.5 STRUCTURAL COURSE (2.0") AND FRICTION COURSE FC-12.5, PG 76-22 (1.5")

- * NOTES:**
1. 12.5' LCEC R/W ESMT. CENTERED ON POLES FROM STA. 66+88.17 TO STA. 88+53.71 RT.
 2. 20' FGUA U.E. FROM STA. 66+13.39 TO STA. 85+68.72 LT.
 3. 40' R/W FOR BIKE PATH/SIDEWALK FROM STA. 55+26.32 TO STA. 88+60.91 LT.
 4. 60' LCEC ESMT. FROM STA. 66+88.51 TO STA. 88+62.49 LT.
 5. 110' PERPETUAL ESMT. FROM STA. 85+76.90 TO STA. 88+68.29 LT.
 6. QUICK KURB WITH MARKERS TO BE INSTALLED FROM STA. 84+55.64 TO STA. 88+74.18.
 7. TURN LANE NOT SHOWN FOR CLARITY. REFER TO PLAN AND PROFILE AND CROSS SECTIONS FOR MORE DETAIL.

** PGL SHIFTS FROM \pm CONST. TO CROWN OF ROADWAY AT STA. 82+85.93 TO STA. 88+99.27.

TRAFFIC DATA

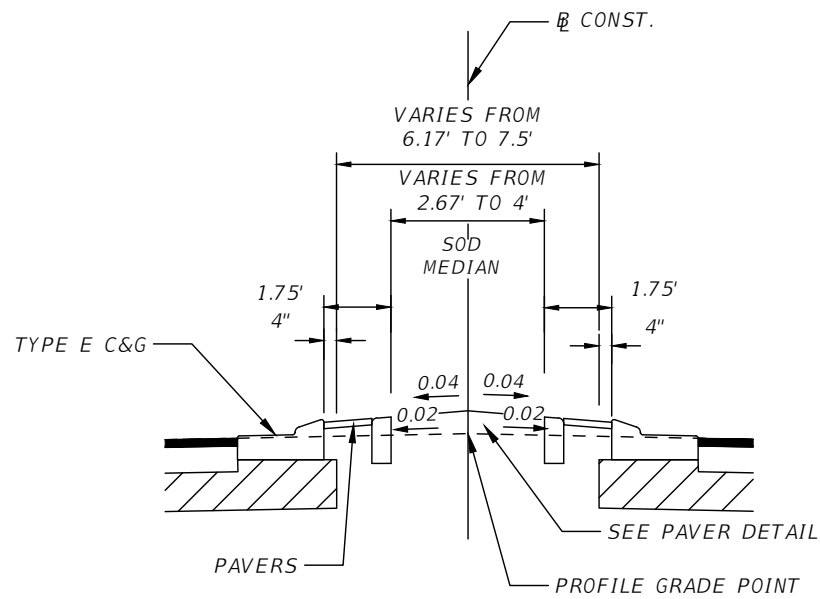
CURRENT YEAR	= 2019 AADT = 9,482	
ESTIMATED OPENING YEAR	= 2022 AADT = 11,404	
ESTIMATED DESIGN YEAR	= 2042 AADT = 24,220	
K = 10.5%	D = 61.5%	T = 4% (24 HOUR)
DESIGN HOUR T = 2%		
DESIGN SPEED = 40 MPH		



WIDENING DETAIL
STA. 88+56.88 TO STA. 88+99.27

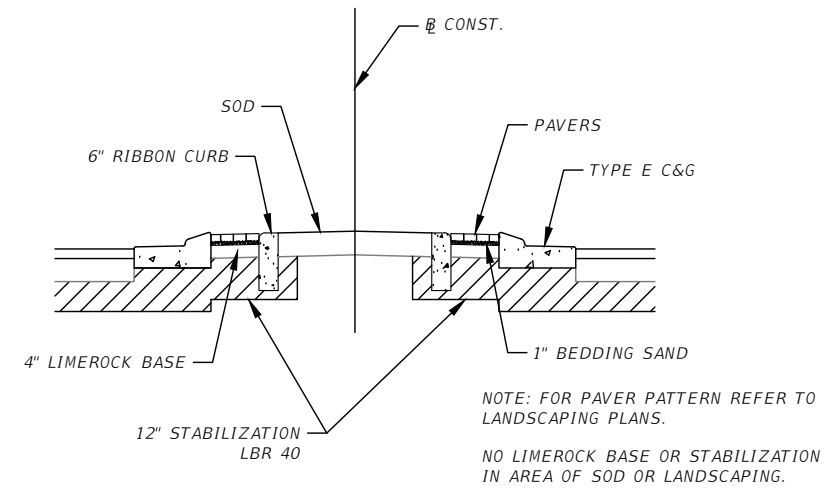
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION (6)	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	FINANCIAL PROJECT ID		
---	---	---	---	LITTLETON ROAD	LEE	CN190114			

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

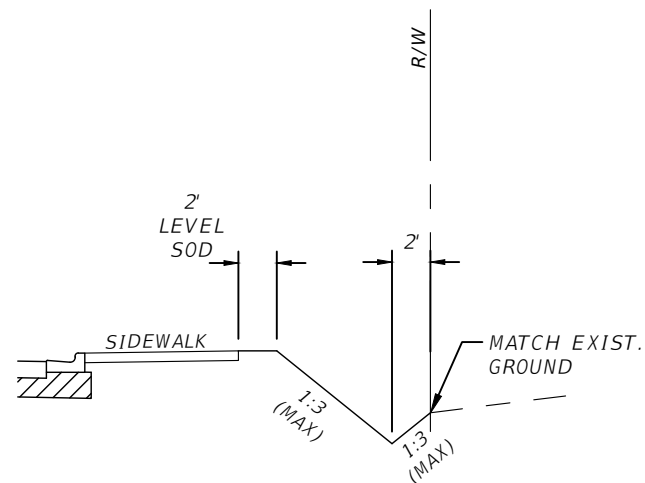


CURBED MEDIAN LOCATIONS:
 FROM STA. 25+00.00 TO STA. 29+12.17
 FROM STA. 55+37.01 TO STA. 58+58.81
 FROM STA. 61+38.02 TO STA. 65+30.90
 FROM STA. 68+40.90 TO STA. 74+00.20
 FROM STA. 76+89.20 TO STA. 78+24.02
 FROM STA. 81+04.94 TO STA. 82+85.93

CURBED MEDIAN DETAIL

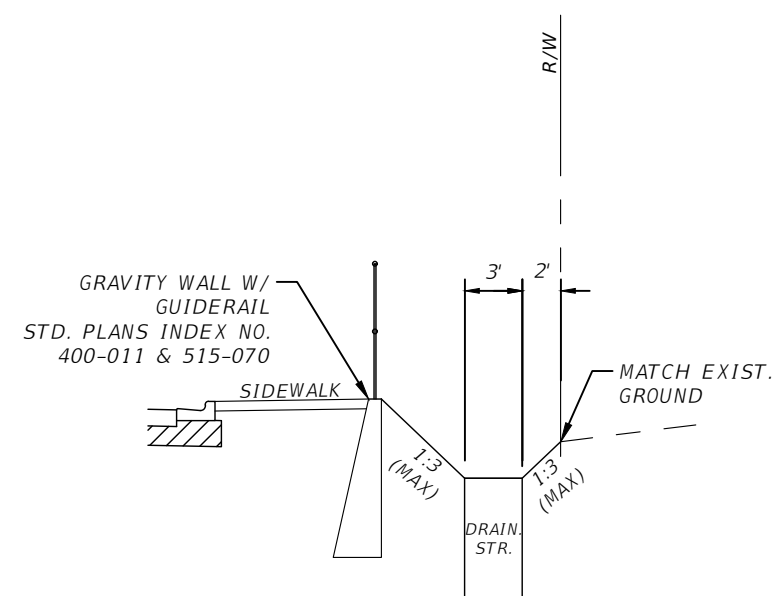


PAVER DETAIL



NON-WALLED SECTION

LOCATIONS:
 FROM STA. 25+00.00 TO STA. 26+99.68
 FROM STA. 29+70.89 TO STA. 30+31.00
 FROM STA. 30+45.00 TO STA. 31+04.00
 FROM STA. 31+38.01 TO STA. 31+48.40
 FROM STA. 32+64.99 TO STA. 32+98.21
 FROM STA. 33+32.22 TO STA. 33+62.82
 FROM STA. 33+96.82 TO STA. 34+51.00
 FROM STA. 34+65.00 TO STA. 34+88.71
 FROM STA. 35+22.72 TO STA. 35+98.84
 FROM STA. 36+32.84 TO STA. 36+46.17
 FROM STA. 36+46.17 TO STA. 36+90.18
 FROM STA. 36+90.18 TO STA. 37+33.73
 FROM STA. 37+67.73 TO STA. 38+29.00
 FROM STA. 40+61.49 TO STA. 43+82.99
 FROM STA. 44+75.73 TO STA. 47+24.32
 FROM STA. 48+17.37 TO STA. 50+35.90
 FROM STA. 50+69.91 TO STA. 52+75.13
 FROM STA. 52+84.87 TO STA. 58+35.53
 FROM STA. 59+60.69 TO STA. 67+30.00
 FROM STA. 69+25.16 TO STA. 75+15.00
 FROM STA. 75+15.00 TO STA. 76+15.00
 FROM STA. 77+75.14 TO STA. 78+04.04
 FROM STA. 79+22.78 TO STA. 79+30.00
 FROM STA. 83+60.00 TO STA. 84+60.09
 FROM STA. 85+01.45 TO STA. 85+06.62
 FROM STA. 85+48.63 TO STA. 85+58.63



WALLED SECTION

LOCATIONS:
 FROM STA. 27+83.93 TO STA. 29+37.89
 FROM STA. 30+31.00 TO STA. 30+45.00
 FROM STA. 31+48.40 TO STA. 31+78.40
 FROM STA. 34+51.00 TO STA. 34+65.00
 FROM STA. 38+72.00 TO STA. 39+41.26
 FROM STA. 52+75.13 TO STA. 52+84.87
 FROM STA. 67+30.00 TO STA. 69+25.16
 FROM STA. 70+45.00 TO STA. 75+15.00
 FROM STA. 76+15.00 TO STA. 77+75.14
 FROM STA. 79+30.00 TO STA. 83+60.00
 FROM STA. 84+60.09 TO STA. 85+01.45
 FROM STA. 85+58.63 TO STA. 85+93.56
 FROM STA. 86+68.36 TO STA. 88+47.76

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

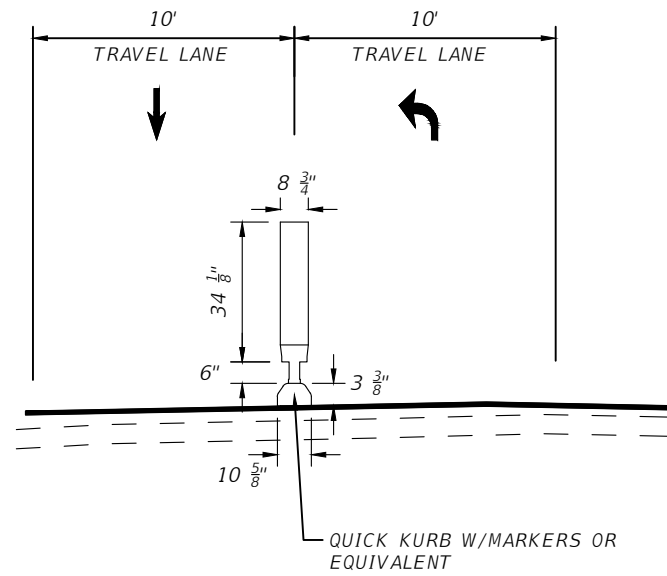
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

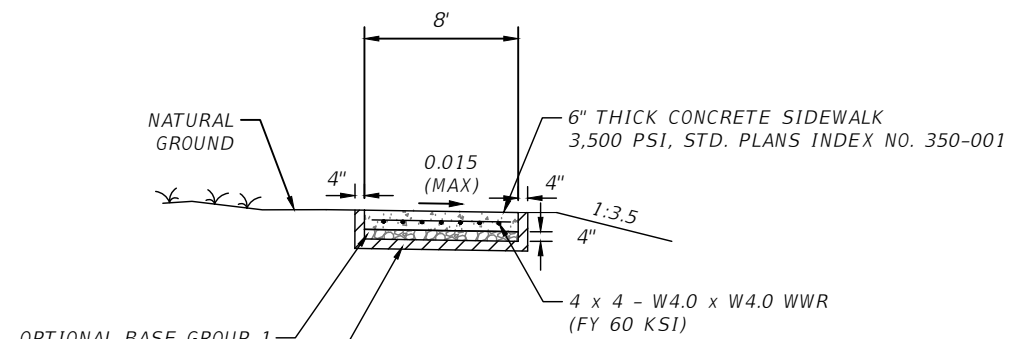
TYPICAL SECTION DETAILS

SHEET NO.
12

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

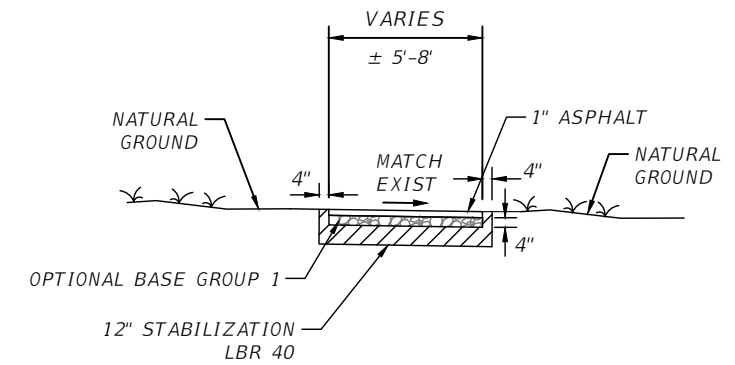


QUICK KURB DETAIL (NTS)
FROM STA. 84+55.64 TO STA. 88+74.18

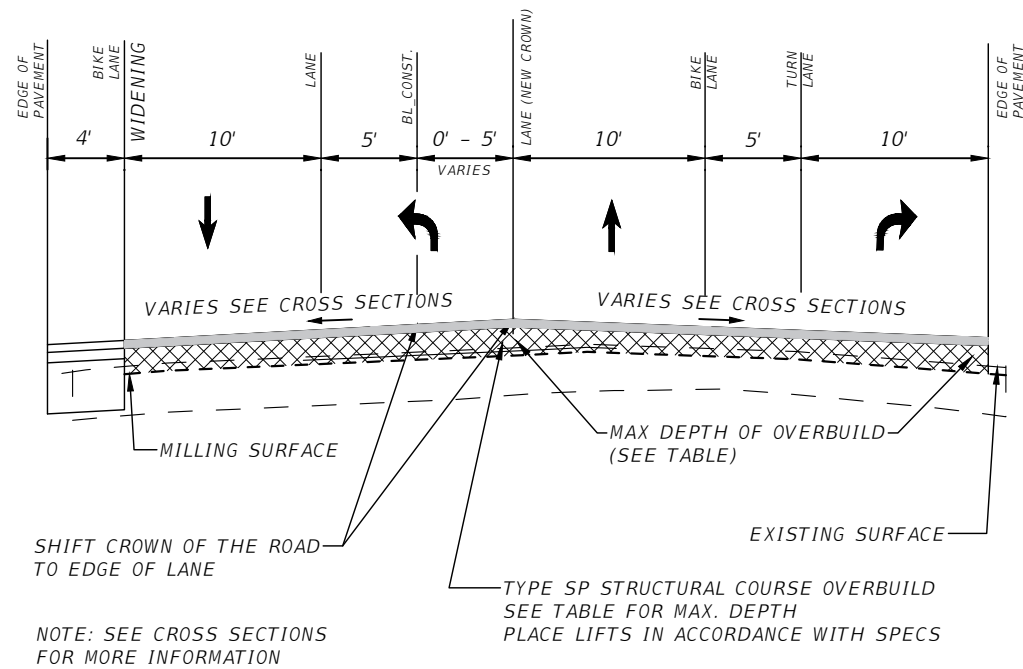


ENHANCED SIDEWALK DETAIL

SIDEWALK LOCATIONS:
FROM STA. 28+95.00 TO STA. 29+33.00 LT
FROM STA. 32+64.00 TO STA. 33+00.00 LT
FROM STA. 57+23.68 TO STA. 66+02.66 LT
FROM STA. 67+68.87 TO STA. 75+39.24 LT
FROM STA. 78+73.78 TO STA. 85+60.97 LT
FROM STA. 88+12.96 TO STA. 88+44.97 LT



ASPHALT PATH DETAIL
FROM STA. 47+82.95 TO STA. 47+94.85 RT



CROWN SHIFT DETAIL
STA. 82+85.93 TO STA. 84+55.48

OVERBUILD DETAIL
STA. 84+55.48 TO STA. 88+99.27

ASPHALT OVERBUILD				
LOCATION	OVERBUILD			
STATION	END AREA (SF)	AVERAGE DEPTH (IN)	TONS	MAX DEPTH (IN)
84+55.48	4.10	2.14	7.52	2.76
85+00.00	7.65	3.10	19.19	4.26
85+50.00	10.22	3.56	32.77	3.9
86+00.00	8.17	2.68	33.71	3.36
86+50.00	4.85	1.39	23.86	2.4
87+00.00	6.57	1.88	20.92	3.06
87+50.00	8.10	2.74	26.89	3.24
88+00.00	12.58	4.36	37.90	5.28
88+25.00	16.18	9.04	26.36	6.96
88+50.00	24.60	7.62	37.38	9.72
88+75.00	12.12	3.08	33.66	5.28
88+99.27	0	0	10.79	0
TOTAL:			311.0	

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

QTY	STR.	STATION	SIDE	DESCRIPTION	BRLS	MITERED END SECTION			ENDWALL		SOD	REMARKS
						8"	36"	24"	36"	29"		
								x	x	x		
P	S-6	25+65.36	RT	INLET	1							
F												
P	S-7	25+66.87	LT	INLET, PIPE	1							
F												
P	S-8	27+89.00	LT	MES	1		1			34	2:1 SLOPE	
F												
P	S-9	29+37.00	LT	INLET, PIPE	1							
F												
P	S-10	29+20.00	RT	INLET, PIPE	1							
F												
P	S-11	29+20.00	LT	INLET, PIPE	1							
F												
P	S-11A	29+80.00	LT	MH, PIPE	1							
F												
P	S-12	29+80.00	LT	INLET	1							
F												
P	S-17	35+60.00	RT	INLET, PIPE	1							
F												
P	S-18	35+60.00	LT	INLET, PIPE	1							
F												
P	S-19	35+60.00	LT	INLET	1							
F												
P	S-22	37+60.00	LT	MES, PIPE	2			1		30		
F												
P	S-23	37+60.00	LT	MANHOLE, PIPE	2							
F												
P	S-24	38+21.22	RT	INLET, PIPE	1							
F												
P	S-25	38+21.22	LT	INLET, PIPE	1							
F												
P	S-26	38+21.22	LT	INLET	1							
F												
P	S-29	41+43.00	RT	INLET, PIPE	1							
F												
P	S-30	42+50.00	RT	INLET, PIPE	1							
F												
P	S-31	42+50.00	LT	INLET, PIPE	1							
F												
P	S-32	42+50.00	LT	INLET	1							
F												
P	S-33	45+00.00	RT	INLET, PIPE	1							
F												
P	S-34	45+00.00	LT	INLET, PIPE	1							
F												
P	S-35	45+00.00	LT	INLET	1							
F												
P	S-36	50+10.00	RT	INLET, PIPE	1							
F												
P	S-37	50+10.00	LT	INLET, PIPE	1							
F												
P	S-38	50+10.00	LT	INLET	1							
F												
P	X-41	52+80.00	RT	XBOX, PIPE	1							
F												
P	S-41	52+80.00	RT	INLET, PIPE	1							
F												
P	S-42	52+80.00	LT	INLET, PIPE	1							
F												
P	S-43	52+80.00	LT	MES	1							
F												
P	S-46	56+72.67	LT	INLET, PIPE	1							
F												
P												
F												
P												
F												
SUBTOTAL:							1	1		64		

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
----	----				LITTLETON ROAD	LEE	CN190114		15

QTY	STR.	STATION	SIDE	DESCRIPTION	BRLS	MITERED END SECTION			ENDWALL		SOD	REMARKS
						8"	36"	24"	36"	29"		
								X		X		
P	X-47	57+40.00	RT	XBOX, PIPE	1			38"		45"	SY	
F												
P	S-47	57+40.00	RT	INLET, PIPE	1							
F												
P	S-48	57+40.00	LT	INLET, PIPE	1							
F												
P	S-49	57+40.00	LT	INLET	1							
F												
P	S-50	59+60.69	RT	INLET, PIPE	1							
F												
P	S-51	59+60.69	LT	INLET	1							
F												
P	S-52	63+00.00	RT	INLET, PIPE	1							
F												
P	S-53	63+00.00	LT	INLET, PIPE	1							
F												
P	S-54	63+00.00	LT	INLET	1							
F												
P	X-55	64+80.00	RT	XBOX, PIPE	1							
F												
P	S-55	64+80.00	RT	INLET, PIPE	1							
F												
P	S-56	64+80.00	LT	INLET, PIPE	1							
F												
P	S-57	64+80.00	LT	INLET	1							
F												
P	S-58	64+92.00	LT	INLET, PIPE	1							
F												
P	S-59	65+44.00	LT	INLET, PIPE	1							
F												
P	S-60A	66+73.84	LT	MODIFY STR	1							
F												
P	S-60B	67+02.14	LT	MODIFY STR	1							
F												
P	S-61	67+79.00	LT	INLET, PIPE	1							
F												
P	S-62	70+20.00	RT	INLET, PIPE	1							
F												
P	S-63	70+20.00	LT	INLET, PIPE	1							
F												
P	S-64	70+20.00	LT	INLET	1							
F												
P	S-65	NOT USED										
F												
P	S-66	75+70.00	LT	MH, PIPE	1							
F												
P	S-67	75+70.00	LT	INLET, PIPE	1							
F												
P	S-68	75+70.00	RT	INLET, PIPE	1							
F												
P	S-71	77+20.00	LT	INLET, PIPE	1							
F												
P	S-72	77+20.00	LT	MH, PIPE	1							130 LF FROM S-72 TO S-70
F												
P	S-73	NOT USED										
F												
P	S-74	81+70.00	RT	INLET, PIPE	1							
F												
P	S-75	81+70.00	LT	INLET, PIPE	1							
F												
P	S-76	81+70.00	LT	INLET	1							
F												
P	S-77	84+52.98	RT	INLET, PIPE	1							
F												
P	S-78	84+55.48	LT	INLET, PIPE	1							
F												
P	S-79	84+55.48	LT	INLET	1							
F												
SUBTOTAL:					PLAN QUANTITY							
					FINAL QUANTITY							

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
----	----				LITTLETON ROAD	LEE	CN190114		17

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

QTY	STR.	STATION	SIDE	DESCRIPTION	BRLS	MITERED END SECTION			ENDWALL		SOD	REMARKS
						8"	36"	24"	36"	29"		
								x	x	x		
P	S-80	NOT USED										
F												
P	S-81	NOT USED										
F												
P	S-84	87+94.00	LT	MES, PIPE	1	1					23	
F												
P												
F												
P	S-110	27+61.00	RT	MODIFY EX STR	1							
F												
P	S-111	28+67.00	RT	INLET, PIPE	1							
F												
P	S-112	30+38.00	RT	INLET, PIPE	1							
F												
P	S-113	31+53.00	RT	INLET, PIPE	1							
F												
P	S-114	32+71.00	RT	INLET, PIPE	1							
F												
P	S-115	33+47.00	RT	INLET, PIPE	1							
F												
P	S-116	34+58.00	RT	INLET, PIPE	1							
F												
P	S-117	35+60.00	RT	INLET, PIPE	1							
F												
P	S-118	36+40.00	RT	INLET, PIPE	1							
F												
P	S-119	37+05.00	RT	INLET, PIPE	1							
F												
P	S-120	37+87.00	RT	INLET, PIPE	1							
F												
P	S-121	38+93.00	RT	INLET, PIPE	1							MANHOLE COVER TYPE X
F												
P												
F												
P	S-200	67+02.47	RT	MODIFY EX. STR	1							
F												
P	S-201	68+00.00	RT	INLET, PIPE	1							
F												
P	S-202	71+00.00	RT	INLET, PIPE	1							
F												
P	S-203	74+00.00	RT	INLET, PIPE	1							
F												
P	S-204	77+00.00	RT	INLET, PIPE	1							
F												
P	S-205	80+00.00	RT	INLET, PIPE	1							
F												
P	S-206	83+00.00	RT	INLET, PIPE	1							
F												
P	S-207	84+85.00	RT	INLET, PIPE	1							MANHOLE COVER TYPE X
F												
P	S-208	85+85.00	RT	INLET, PIPE	1							MANHOLE COVER TYPE X
F												
P	S-209	86+85.00	RT	INLET, PIPE	1							MANHOLE COVER TYPE X
F												
P												
F												
P												
F												
P												
F												
P												
F												
P												
F												
P												
F												
SUBTOTAL:					PLAN QUANTITY	1					23	
					FINAL QUANTITY							

<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>----</td> <td>----</td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION	----	----	----	----	<p>DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901</p>	<p style="text-align: center;">LEE COUNTY DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NAME</th> <th>COUNTY</th> <th>CONTRACT NO.</th> </tr> </thead> <tbody> <tr> <td>LITTLETON ROAD</td> <td>LEE</td> <td>CN190114</td> </tr> </tbody> </table>	ROAD NAME	COUNTY	CONTRACT NO.	LITTLETON ROAD	LEE	CN190114	<p style="text-align: center;">SUMMARY OF DRAINAGE STRUCTURES</p>	<p>SHEET NO. 19</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
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ROAD NAME	COUNTY	CONTRACT NO.																			
LITTLETON ROAD	LEE	CN190114																			

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

QTY	STR.	STATION	SIDE	DESCRIPTION	BRLS	STORM DRAIN										TRENCH DRAIN			CURB INLETS		MANHOLES		DITCH BOTTOM INLETS					MOD							
						PVC	ROUND					OTHER					8"	12"	15"	P-5	P-6	P-7	J-7	BOX	DBI	DBI	DBI		DBI	EXIST					
						8"	12"	15"	18"	24"	36"	12"x18"	14"x23"	19"x30"	24"x38"	29"x45"	34"x53"	8"	12"	15"	<10	<10	<10	<10	X	C	D	H	C-MOD	DRAIN					
P	S-400	27+89.00	LT	MES	1																														
F																																			
P	S-401	29+40.00	LT	MH, PIPE	1																														
F																																			
P	S-402	32+90.00	LT	MH, PIPE	1																														
F																																			
P	S-403	36+05.00	LT	MH, PIPE	1																														
F																																			
P	S-404	37+00.00	LT	MH, PIPE	1																														
F																																			
P	S-405	37+85.00	LT	MES, PIPE	1																														
F																																			
P	S-406	39+91.00	LT	MH, PIPE	1																														
F																																			
P	S-407	39+91.00	LT	ENDWALL, PIPE	1																														
F																																			
P																																			
P	S-500	67+02.14	LT	MODIFY EX STR	1																														
F																																			
P	S-501	68+43.00	LT	MH, PIPE	1																														
F																																			
P	S-502	70+35.00	LT	MH, PIPE	1																														
F																																			
P	S-503	73+85.00	LT	MH, PIPE	1																														
F																																			
P	S-503A	75+41.75	LT	MH, PIPE	1																														
F																																			
P	S-504	76+21.40	LT	MH, PIPE	1																														
F																																			
P	S-505	76+69.00	LT	MH, PIPE	1																														
F																																			
P	S-506	80+70.77	LT	MH, PIPE	1																														
F																																			
P	S-507	84+36.66	LT	MH, PIPE	1																														
F																																			
P	S-508	84+37.50	LT	ENDWALL, PIPE	1																														
F																																			
P	S-509	85+90.66	LT	MH, PIPE	1																														
F																																			
P	S-510	87+19.00	LT	MH, PIPE	1																														
F																																			
P	S-511	87+19.00	LT	MH, PIPE	1																														
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SUBTOTAL: PLAN QUANTITY											1193					144	313	1570									17		1						
FINAL QUANTITY																																			
TOTAL: PLAN QUANTITY											9	28	2239	736	574	1414	785	36	118	728	313	1570	144	393	260	18	16	1	20	3	17	15	2	4	5
FINAL QUANTITY																																			

REVISIONS DATE DESCRIPTION DATE DESCRIPTION				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901			LEE COUNTY DEPARTMENT OF TRANSPORTATION ROAD NAME COUNTY CONTRACT NO. LITTLETON LEE CN190114			SUMMARY OF DRAINAGE STRUCTURES					SHEET NO. 20
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY	STR.	STATION	SIDE	DESCRIPTION	BRLS	MITERED END SECTION			ENDWALL		SOD	REMARKS
						8"	36"	24" x	36"	29" x		
								38"		45"		
P	S-400	27+89.00	LT	MES	1		1				34	2:1 SLOPE
F												
P	S-401	29+40.00	LT	MH, PIPE	1							
F												
P	S-402	32+90.00	LT	MH, PIPE	1							
F												
P	S-403	36+05.00	LT	MH, PIPE	1							
F												
P	S-404	37+00.00	LT	MH, PIPE	1							
F												
P	S-405	37+85.00	LT	MES, PIPE	1		1				34	
F												
P	S-406	39+91.00	LT	MH, PIPE	1							
F												
P	S-407	39+91.00	LT	ENDWALL, PIPE	1				1		56	
F												
P												
F												
P	S-500	67+02.14	LT	MODIFY EX STR	1							
F												
P	S-501	68+43.00	LT	MH, PIPE	1							
F												
P	S-502	70+35.00	LT	MH, PIPE	1							
F												
P	S-503	73+85.00	LT	MH, PIPE	1							
F												
P	S-503A	75+41.75	LT	MH, PIPE	1							
F												
P	S-504	76+21.40	LT	MH, PIPE	1							
F												
P	S-505	76+69.00	LT	MH, PIPE	1							
F												
P	S-506	80+85.00	LT	MH, PIPE	1							
F												
P	S-507	84+36.66	LT	MH, PIPE	1							
F												
P	S-508	84+37.50	LT	ENDWALL, PIPE	1					1	78	
F												
P	S-509	85+90.66	LT	MH, PIPE	1							
F												
P	S-510	87+19.00	LT	MH, PIPE	1							
F												
P	S-511	87+19.00	LT	MH, PIPE	1							
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SUBTOTAL:		PLAN QUANTITY				2		1	1		202	
		FINAL QUANTITY										
TOTAL:		PLAN QUANTITY				1	3	1	1		289	
		FINAL QUANTITY										

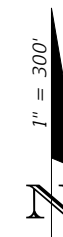
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
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SUMMARY OF SIDE DRAIN & MITERED END SECTIONS

LOCATION						PIPE		MES		MANHOLE	SOD	DESIGN NOTES	CONSTRUCTION REMARKS		
						OTHER		OTHER							
STRUCTURE NO. AND STA. TO STA.				SIDE	BACK		AHEAD		24" x38"		24" x38"	J-7			
					OFFSET	ℓ	OFFSET	ℓ	P	F			P	F	
S-13	32+14.00	-	S-14	32+57.75	LT	-51.50	11.10	-51.50	11.20	76.0		4		72	
S-15	33+55.00	-	S-16	33+98.60	LT	-49.50	11.10	-49.50	11.20	76.0		4		72	
S-20	36+49.50	-	S-20A	37+27.50	LT	-48.38	11.10	-57.25	11.15	74.0		1	1	30	
S-20A	37+27.50	-	S-21	37+49.50	LT	-57.25	11.15	-51.80	11.20	18.0		1		30	
S-27	39+04.50	-	S-28	39+70.00	LT	-48.50	11.10	-48.50	11.20	120.0		4		72	
S-39	52+07.00	-	S-40	52+40.00	LT	-55.00	11.10	-55.00	11.20	27.0		2		60	
S-44	53+09.00	-	S-45	53+44.50	LT	-55.00	11.10	-56.00	11.20	30.0		2		60	
S-69	74+93.00	-	S-70	78+54.50	LT	-44.00	11.40	-44.50	11.50	356.0		4		72	
S-82	85+62.50	-	S-83	87+08.00	LT	-44.00	11.40	-38.60	11.50	146.0		2		60	
SUB-TOTAL:										923.0		24	1	528	
TOTAL:										923		24	1	528	

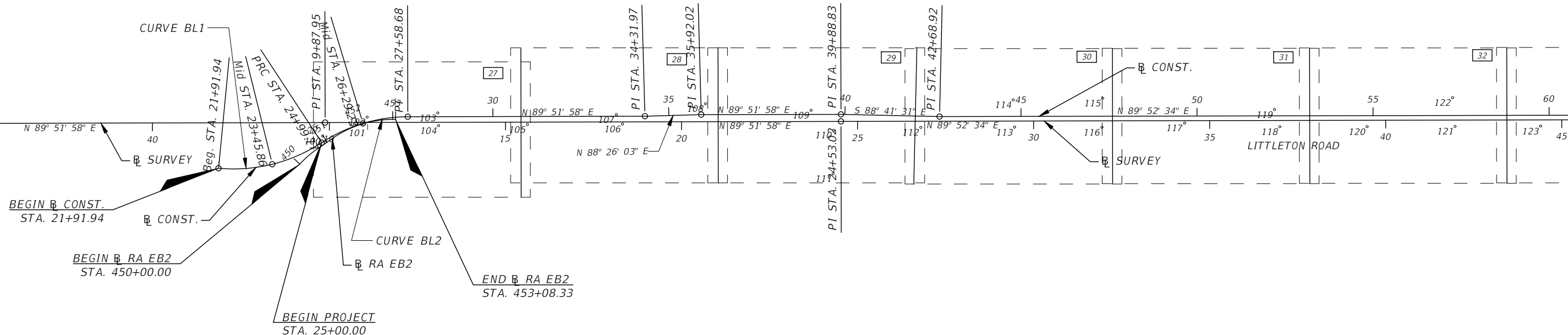
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SUMMARY OF SIDE DRAINS & MITERED END SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		CONTRACT NO.
----	----			LITTLETON ROAD	LEE	CN190114		

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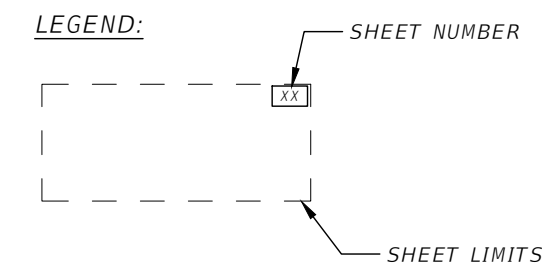
CURVE DATA BL1 LITTLETON
 PI STA. = 23+52.03
 Δ = 38° 50' 13" (LT)
 D = 12° 36' 58"
 T = 160.09
 L = 307.83
 R = 454.14
 PC STA. = 21+91.94
 PT STA. = 24+99.77

CURVE DATA BL2 LITTLETON
 PI STA. = 26+32.97
 Δ = 33° 11' 29" (RT)
 D = 12° 49' 13"
 T = 133.20
 L = 258.90
 R = 446.92
 PC STA. = 24+99.77
 PT STA. = 27+58.68



CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	858936.82	682143.6	11.827	SET N-D "CARDNO T.P. LB 7975"
101	858954.958	682271.117	12.254	SET N-D "CARDNO T.P. LB 7975"
102	858990.5475	682269.838	12.706	SET N-D "CARDNO T.P. LB 7975"
103	859002.151	682470.753	13.052	SET N-D "CARDNO T.P. LB 7975"
104	858966.169	682472.529	13.374	SET N-D "CARDNO T.P. LB 7975"
105	858969.213	682725.029	13.443	SET 5/8" IR&C "CARDNO T.P. LB 7975"
106	858970.759	682995.465	13.792	SET N-D "CARDNO T.P. LB 7975"
107	858997.716	682977.786	13.875	SET N-D "CARDNO T.P. LB 7975"
108	859028.155	683230.718	12.261	SET 5/8" IR&C "CARDNO T.P. LB 7975"
109	859009.799	683530.65	14.149	SET N-D "CARDNO T.P. LB 7975"
110	858952.955	683594.677	13.9777	SET N-D "CARDNO T.P. LB 7975"
111	858829.382	683593.664	13.832	SET N-D "CARDNO T.P. LB 7975"

CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
112	858960.817	683842.346	14.057	SET N-D "CARDNO T.P. LB 7975"
113	858961.918	684108.728	14.488	SET N-D "CARDNO T.P. LB 7975"
114	859039.086	684104.8445	13.391	SET 5/8" IR&C "CARDNO T.P. LB 7975"
115	859043.82	684358.932	13.675	SET 5/8" IR&C "CARDNO T.P. LB 7975"
116	858961.481	684356.776	14.152	SET N-D "CARDNO T.P. LB 7975"
117	858973.713	684591.531	14.9897	SET N-D "CARDNO T.P. LB 7975"
118	858962.981	684862.016	14.344	SET N-D "CARDNO T.P. LB 7975"
119	859011.889	684847.016	14.292	SET N-D "CARDNO T.P. LB 7975"
120	858963.309	685109.919	14.895	SET N-D "CARDNO T.P. LB 7975"
121	858963.985	685359.575	14.596	SET N-D "CARDNO T.P. LB 7975"
122	859045.393	685352.568	13.501	SET 5/8" IR&C "CARDNO T.P. LB 7975"
123	858965.046	685602.445	15.362	SET N-D "CARDNO T.P. LB 7975"



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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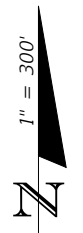
DANIEL M. CRAIG P.E.,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

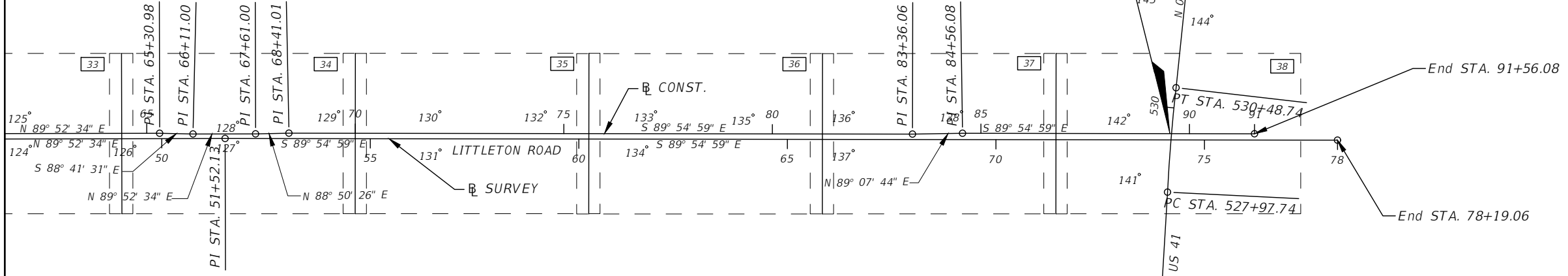
PROJECT LAYOUT

SHEET NO.
23

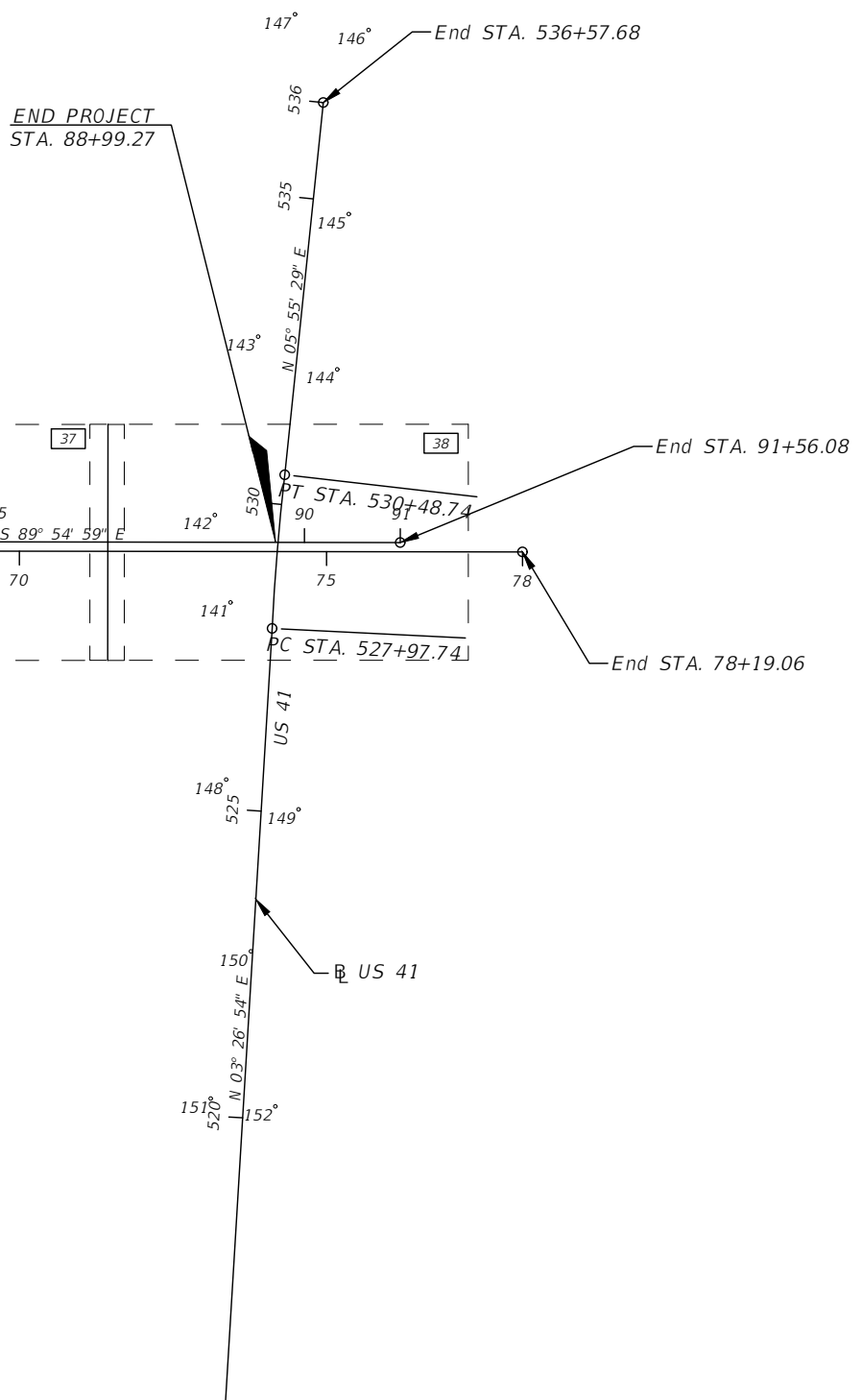
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CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
124	858965.35	685847.586	14.374	SET N-D "CARDNO T.P. LB 7975"
125	859045.076	685845.574	13.103	SET 5/8" IR&C "CARDNO T.P. LB 7975"
126	858965.37	686098.11	14.709	SET N-D "CARDNO T.P. LB 7975"
127	858975.073	686344.805	14.877	SET N-D "CARDNO T.P. LB 7975"
128	859022.816	686344.64	14.617	SET N-D "CARDNO T.P. LB 7975"
129	859048.146	686586.625	14.004	SET N-D "CARDNO T.P. LB 7975"
130	859048.225	686829.288	13.557	SET N-D "CARDNO T.P. LB 7975"
131	858956.786	686829.789	13.194	SET 5/8" IR&C "CARDNO T.P. LB 7975"
132	859047.725	687082.51	13.896	SET N-D "CARDNO T.P. LB 7975"
133	859047.892	687346.69	13.798	SET N-D "CARDNO T.P. LB 7975"
134	858964.002	687325.462	14.329	SET N-D "CARDNO T.P. LB 7975"
135	859040.18	687580.301	13.568	SET N-D "CARDNO T.P. LB 7975"
136	859046.45	687820.458	13.716	SET N-D "CARDNO T.P. LB 7975"
137	858954.918	687820.386	12.953	SET 5/8" IR&C "CARDNO T.P. LB 7975"



CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
138	859048.199	688080.125	13.919	SET N-D "CARDNO T.P. LB 7975"
141	858897.978	688506.426	16.503	SET N-D "CARDNO T.P. LB 7975"
142	859040.258	688480.828	14.578	SET N-D "CARDNO T.P. LB 7975"
143	859330.536	688551.324	15.121	SET 5/8" IR&C "CARDNO T.P. LB 7975"
144	859277.264	688680.243	15.615	SET N-D "CARDNO T.P. LB 7975"
145	859529.949	688698.923	15.649	SET N-D "CARDNO T.P. LB 7975"
146	859829.5425	688731.0805	16.052	SET N-D "CARDNO T.P. LB 7975"
147	859854.943	688611.325	15.786	SET N-D "CARDNO T.P. LB 7975"
148	858609.765	688499.427	14.928	SET 5/8" IR&C "CARDNO T.P. LB 7975"
149	858561.155	688617.212	15.099	SET N-D "CARDNO T.P. LB 7975"
150	858330.227	688539.743	15.189	SET 5/8" IR&C "CARDNO T.P. LB 7975"
151	858090.737	688474.161	14.828	SET 5/8" IR&C "CARDNO T.P. LB 7975"
152	858078.047	688579.397	14.946	SET 5/8" IR&C "CARDNO T.P. LB 7975"



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

PROJECT LAYOUT

SHEET NO.
24

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

GENERAL NOTES:

1. BENCHMARKS ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), INFORMATION SUPPLIED BY CARDNO, INC., PROJECT SURVEYOR.
2. EXISTING STORM DRAINS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED, UNLESS OTHERWISE NOTED ON THE PLANS. SEE EXISTING STORM DRAIN INFORMATION TABLE FOR EXISTING STORM INFORMATION.
3. ANY PRIVATE OR PUBLIC PROPERTY AFFECTED BY THIS WORK OUTSIDE OF THE PROJECT LIMITS SHALL BE RESTORED TO A CONDITION BETTER THAN EXISTING CONDITIONS. AT NO ADDITIONAL COST, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES TO A CONDITION BETTER THAN EXISTING, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA TO LOCATE AND FLAG ALL PROPERTY CORNERS PRIOR TO CONSTRUCTION AND FINAL ENGINEERING INSPECTION AND CERTIFICATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE PROPERTY CORNERS, WHICH HAVE BEEN LOST DURING CONSTRUCTION, REESTABLISHED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA. ALL (P.R.M'S) IRONS AND MONUMENTS SHOWN ON THE PLANS OR FOUND SHALL BE PRESERVED. ANY PUBLIC LAND CORNERS WITHIN LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF ANY CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WITHOUT DELAY.
5. DISCREPANCIES IN FIELD CONDITIONS, PLAN CONDITIONS, OR CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
6. THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF HIS PERSONNEL.
7. WHEN WORKING ON OR ADJACENT TO EXISTING STRUCTURES OR APPURTENANCES, ALL PRECAUTIONS FOR CONTINUED SAFETY OF STRUCTURES AND ALL PERSONNEL SHALL BE EXERCISED.
8. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO READ AND UNDERSTAND ALL PERMITS INCLUDING ALL GENERAL AND SPECIAL CONDITIONS. AT OWNER'S OR ENGINEER'S REQUEST, THE CONTRACTOR SHALL PROVIDE APPROPRIATE DOCUMENTATION THAT ALL CONSTRUCTION RELATED CONDITIONS ARE ADHERED TO.
9. GREEN OPEN SPACE ELEVATIONS SHOWN ARE TO TOP OF SOD. FINISH GRADE TO WITHIN 2" OF PAVEMENT ELEVATIONS BEFORE LAYING SOD (STRICTLY ENFORCED). ALL AREAS TO BE GRADED AND SODDED MUST DRAIN WITHOUT ANY NOTICEABLE PONDING. THE CONTRACTOR WILL BE REQUIRED TO REGRADE AND RESOD ANY AREAS WHICH DO NOT COMPLY WITH POSITIVE DRAINAGE WITHOUT PONDING.
10. NO DEWATERING PERMIT HAS BEEN PURSUED BY THE ENGINEER/COUNTY FOR THE PROPOSED CONSTRUCTION. IN THE EVENT DEWATERING IS REQUIRED THE CONTRACTOR SHALL APPLY FOR ALL APPLICABLE WATER USE PERMITS AT THAT TIME.
11. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PROPOSED PRECAST AND MANUFACTURED STRUCTURES. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY CONTRACTOR SIGNATURE PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.
12. CONTRACTOR SHALL NOTIFY THE LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) ENGINEER, FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF THE PERMITTED ACTIVITY. THE LCDOT ENGINEER SHALL ESTABLISH POINTS OF CONSTRUCTION, IF APPLICABLE, WHICH WILL REQUIRE INSPECTION BY THE LCDOT ENGINEER PRIOR TO CONSTRUCTION OF THE PERMITTED ACTIVITY. WHEN THE CONTRACTOR CONSIDERS THE PERMITTED ACTIVITY COMPLETE, THE CONTRACTOR SHALL NOTIFY THE LCDOT ENGINEER AND SCHEDULE AN ON-SITE FINAL INSPECTION WHICH SHALL BE HELD IN THE PRESENCE OF A LCDOT REPRESENTATIVE AND/OR THE ENGINEER OF RECORD AND THE LCDOT ENGINEER.
13. REFER TO STANDARD PLANS INDEX NO. 536-001 AND 536-002 FOR GUARDRAIL INFORMATION AND GUARDRAIL TRANSITIONS AND CONNECTIONS FOR RIGID BARRIER CONSTRUCTION..
14. EXISTING MAILBOXES ARE TO BE RELOCATED AND RESET. WHERE UTILITY STRIP IS NOT PRESENT BETWEEN EDGE OF PAVEMENT AND FRONT OF SIDEWALK, MAILBOX SHALL BE PLACED PARALLEL TO THE EDGE OF PAVEMENT SO THAT IT WILL MINIMIZE ENCROACHMENT INTO THE SIDEWALK.
15. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THOSE LOCATIONS.
16. CONTRACTORS ATTENTION IS DIRECTED TO THE EXISTENCE OF SIGNIFICANT OVERHEAD UTILITIES WHICH MAY INTERFERE WITH NORMAL CONSTRUCTION PRACTICES WITHIN THE PROJECT LIMITS.

17. CONTRACTOR SHALL MONITOR THEIR DYNAMIC COMPACTION OPERATIONS DUE TO THE CLOSE PROXIMITY OF EXISTING STRUCTURES TO THE PROJECT. CONTRACTOR MAY NEED TO INCORPORATE STATIC COMPACTION METHODS IN HIS CONSTRUCTION EFFORTS. NO SEPARATE PAYMENT WILL BE MADE IF SUCH METHODS ARE REQUIRED.
18. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR PAVEMENT CORES INDICATING EXISTING ASPHALT DEPTHS.
19. ALL ADA RAMPS SHALL HAVE DETECTIBLE WARNINGS CAST INTO THE CONCRETE.
20. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.
21. CONTRACTOR TO MAINTAIN EXISTING TRAFFIC/ACCESS, EXISTING DRAINAGE AND EXISTING UTILITIES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED BY LEE COUNTY.
22. CONSTRUCTION STAKING IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE SERVICES DURING CONSTRUCTION.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION RELATED PERMITTING. PAYMENT FOR ACQUISITION OF CONSTRUCTION RELATED PERMITS SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION RELATED ACTIVITIES. NO ADDITIONAL PAYMENT SHALL BE MADE.
24. CONTRACTOR SHALL OBTAIN NPDES PERMIT, IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN AND ABIDE BY ALL NPDES REQUIREMENTS. ALL APPLICABLE COST SHALL BE INHERENT TO EROSION CONTROL PAY ITEM.
25. CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE COUNTY PROJECT MANAGER. THE CONTRACTOR SHALL PROVIDE THE LEE COUNTY PROJECT MANAGER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED AN MSDS SUBMITTAL.

ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE COUNTY PROJECT MANAGER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOW OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE LEE COUNTY PROJECT MANAGER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE COUNTY PROJECT MANAGER.
26. PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE, SHALL BE FURNISHED TO THE LEE COUNTY PROJECT MANAGER BY THE CONTRACTOR. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION THE BY COUNTY OR APPOINTED REPRESENTATIVE PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES, INCLUDING TROPICAL SODA APPLE, SHALL BE REJECTED FOR USE ON THE PROJECT.
27. AT THE COMPLETION OF THE PROJECT, ALL DISTURBED SURFACES SHALL BE COVERED BY TURF.
28. STATION/OFFSET LOCATIONS SHOWN FOR MITERED END SECTIONS ARE PER FDOT STANDARD PLANS INDEX.
29. FOR CURB INLETS WITHIN OR ADJACENT TO PROPOSED SIDEWALK, THE TOPS SHALL BE SET/ADJUSTED SUCH THAT TOP OF INLET IS FLUSH WITH SURROUNDING SIDEWALK. EDGES ADJACENT TO CONCRETED SIDEWALK SHALL HAVE 1/2" EXPANSION JOINT MATERIAL. COST IS CONSIDERED INCIDENTAL TO THE DRAINAGE STRUCTURE.
30. ALL PROPOSED DRAINAGE PIPE WITHIN RIGHT OF WAY SHALL BE REINFORCED CONCRETE PIPE (RCP/ERCP) UNLESS OTHERWISE NOTED.
31. SOD QUANTITY INCLUDES ONLY THOSE AREAS INTENDED TO BE DISTURBED BY PROPOSED IMPROVEMENTS. OTHER DISTURBED AREAS NOT INTENDED TO BE DISTURBED, INCLUDING BUT NOT LIMITED TO STAGING AREAS, STOCKPILE AREAS, ETC., SHALL BE SODDED AT NO ADDITIONAL CONST.
32. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS.
33. CONTRACTOR TO NOTIFY LEE COUNTY IMMEDIATELY IF UNSUITABLE SUBSOIL CONDITIONS ARE ENCOUNTERED.
34. CONTRACTOR SHALL BE AWARE OF EXISTING UTILITIES TO REMAIN ALONG THE PROJECT CORRIDOR, CARE SHALL BE TAKEN NOT TO DAMAGE THESE FACILITIES DURING CONSTRUCTION.
35. MOWING FREQUENCY ASSUMES CONSTRUCTION DURATION OF 24 MONTHS WITH 1 MOWING CYCLE PER MONTH. THE COUNTY WILL DETERMINE THE NEEDED MOWING FREQUENCY DURING CONSTRUCTION. NO PAYMENT WILL BE MADE FOR UNUSED QUANTITY. COST OF LITTER REMOVAL TO BE INCLUDED IN COST OF MOWING.

REVISIONS				DANIEL M. CRAIG P.E., P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE. FORT MYERS, FL. 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---					LITTLETON ROAD	LEE		CN190114

GENERAL NOTES CONTINUED:

36. THE CONTRACTOR SHALL BE AWARE OF THE POSSIBLE PRESENCE OF ROCK WITHIN THE PROJECTS LIMITS THAT MAY BE ENCOUNTERED WHILE PERFORMING EXCAVATIONS AND UNDERGROUND INSTALLATIONS. GEOTECHNICAL REPORTS WITH BORINGS ARE INCLUDED IN THE CONTRACT DOCUMENTS FOR INFORMATIONAL PURPOSES ONLY, AS THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR FINAL SUBSURFACE DETERMINATION. THE CONTRACTOR SHALL CONSIDER THE INCREASE IN COST FOR ALL UNDERGROUND WORK ACTIVITIES AND INCLUDE SUCH COSTS IN HIS BID. ALL COSTS ASSOCIATED WITH ENCOUNTERED ROCK OR ROCK-LIKE MATERIAL SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO ADDITIONAL COMPENSATION WILL BE MADE.
37. CONTRACTOR BE AWARE THAT THERE ARE AREAS WHERE TOP OF THE CONCRETE DRAINAGE PIPE IS IN CLOSE PROXIMITY TO THE BOTTOM OF CONCRETE DRIVEWAY AND/OR BOTTOM OF BASE ON SIDE STREETS. REFER TO DRIVEWAY AND SIDE STREET PROFILES FOR LOCATIONS. THE COST OF THE ADDITIONAL CONCRETE AND LIMEROCK FOR ENCASEMENT OF THE PIPES, FOR DRIVEWAY AND SIDE STREET RESPECTIVELY, IS INCIDENTAL TO THE COST OF THE CONCRETE DRAINAGE PIPE, AND SHALL EXTEND THE ENTIRE WIDTH OF DRIVEWAY/SIDE STREET.
38. CONTRACTOR TO MINIMIZE IMPACT TO PRIVATE PROPERTY WHEN WORKING WITHIN TCE. IF ANY DAMAGE TO THE PROPERTY OCCURS WITHIN TCE, THE ITEM DAMAGED IT IS TO BE REPLACED IN KIND WITH NEW, AT NO ADDITIONAL COST TO THE COUNTY, THIS INCLUDES BUT IS NOT LIMITED TO VEGETATION, LIGHT POLES, DRAINFIELDS, FENCING,+ DRIVEWAYS, ETC.
39. CONTRACTOR TO MAINTAIN ACCESS TO ALL HOMES AND BUSINESS DURING CONSTRUCTION.
40. DURING CLEARING AND GRUBBING OPERATIONS ON OR ADJACENT TO THE SERENDIPITY PROPERTY, THE CONTRACTOR SHALL REMOVE THE EXISTING FENCE AND REPLACE IT WITH A 6' CHAINLINK FENCE ON THE SOUTHERN SIDE OF TCE. THE CHAINLINK FENCE SHALL BE INSTALLED WITHIN 5 WORKING DAYS OF THE EXISTING FENCE REMOVAL. CONTRACTOR TO CONFIRM LIMITS OF FENCE REMOVAL AND REPLACEMENT WITH ENGINEER PRIOR TO REMOVAL OF THE EXISTING FENCE. REMOVAL OF EXISTING FENCE IS INCIDENTAL TO CLEARING AND GRUBBING OPERATION. SEE PAY ITEM FOR ADDITION OF CHAINLINK FENCE.
41. CONTRACTOR SHALL PROVIDE SHEETING, TRENCH BOX OR OTHER CONSTRUCTION METHOD OF THEIR CHOOSING WHILE INSTALLING THE PROPOSED DRAINAGE STRUCTURES AND DRAINAGE PIPE TO ENSURE ALL RELATED WORK EFFORTS ARE CONTAINED WITHIN THE RIGHT OF WAY. THE COST OF THE SHEETING, TRENCH BOX, ETC. IS INCIDENTAL TO DRAINAGE STRUCTURES AND DRAINAGE PIPES, NO SEPARATE PAYMENT WILL BE MADE.

TRENCH DRAIN/SLOTTED DRAIN NOTES:

1. REFER TO TRENCH DRAIN DETAIL AND FDOT STD. PLANS INDEX NO. 436-001.
2. TRENCH DRAIN SHALL BE ALUMINIZED CORRUGATED STEEL.
3. TRENCH DRAIN SHALL HAVE VARIABLE SLOT DEPTH, REFER TO PROFILE FOR DRAIN INVERTS.
4. TRENCH DRAIN SHALL BE TRAFFIC RATED (H-20 LOADS).
5. CLEAN OUT PORTS ARE REQUIRED PER FDOT STD. PLANS INDEX NO. 436-001.
6. PRICE FOR TRENCH DRAIN (ITEM 436-1-1) INCLUDES THE CONCRETE ENCASEMENT, CONCRETE VALLEY GUTTER, CLEAN OUT PORTS, AND ALL REQUIRED ADAPTOR, CAPS, TEES, BENDS, COUPLINGS, PVC PIPE C-900, ETC. REQUIRED TO CONNECT TO THE MAIN DRAINAGE SYSTEM.
7. CONTRACTOR TO VERIFY CONSTRUCTION/CONTRACTION JOINTS LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT OF DRAINS.

REVISIONS				DANIEL M. CRAIG, P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			GENERAL NOTES AND TRENCH DRAIN-SLOTTED DRAIN NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---					LITTLETON ROAD	LEE		CN190114

EXISTING STORM DRAIN INFORMATION			
REFERENCE NUMBER	PIPE SIZE/MATERIAL	INVERT EL.	INVERT EL.
①	36" CMP	W 2.44	E 5.36
②	12" RCP	W 9.70	E 10.26
③	12" RCP	W 11.08	E 11.25
④	18" RCP	W 10.85	E 11.17
⑤	36" CCP	W 9.68	E 9.92
⑥	12" RCP	W 11.71	E 11.41
⑦	15" CPP	W 11.19	E 11.65
⑧	24" RCP	W 9.52	E 10.22
⑨	24" RCP	W 9.82	E 10.37
⑩	12" RCP	W 12.03	E 11.79
⑪	12"x18" ERCP	W 12.32	
⑫	12" RCP	W 10.93	E 10.90
⑬	15" RCP		S 10.74
⑭	6" CPP	W 11.62	N 11.42
⑮	12" RCP	W 10.78	N 10.71
⑯	30" RCP	W 10.37	E 10.61
⑰	12"x18" ERCP	W 13.16	E 13.07
⑱	12" RCP	W 12.27	E 12.37
⑲	12"x18" ERCP	W 11.99	E 12.12
⑳	18" RCP	W 10.71	E 10.89
㉑	18" RCP	W 11.17	E 11.01
㉒	12"x18" ERCP	W 10.36	E 9.93
㉓	24" CPP	W 10.76	UNKNOWN
㉔	36" CMP	UNKNOWN	E 7.22
㉕	24" CPP	UNKNOWN	E 11.71
㉖	24" CMP/RCP	N 9.38	S 9.38
㉗	40" RCP	W 9.18	E 9.47
㉘	15" CPP/RCP	W 12.77	E 12.26
㉙	36"x48" ERCP		E 9.06
㉚	36"x48" ERCP	W 9.24	E 9.08
㉛	36"x48" ERCP	S 9.65	N 9.46
㉜	36"x48" ERCP	W 9.33	E 8.79
㉝	36"x48" RCP	W 9.46	E 9.49
㉞	24"x36" ERCP	N 11.19	S 9.57
㉟	15" RCP		
㊱	15" RCP/36"x48" ERCP	W 9.75	N 8.92
㊲	15" RCP	S 10.22	
㊳	15" RCP	W 11.58	E 12.08
㊴	3" PVC	N 13.03	E 8.74

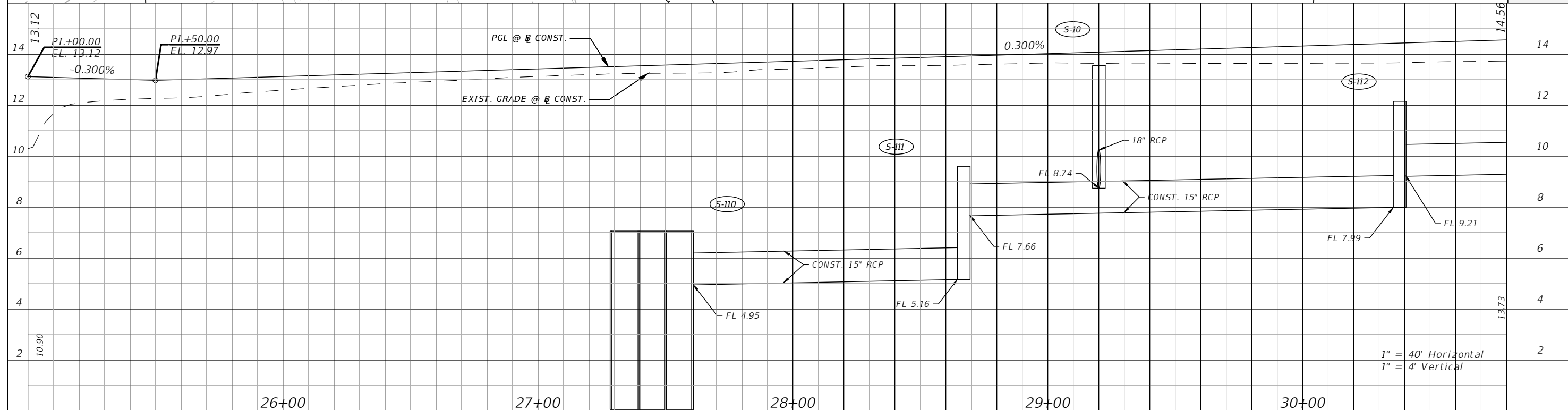
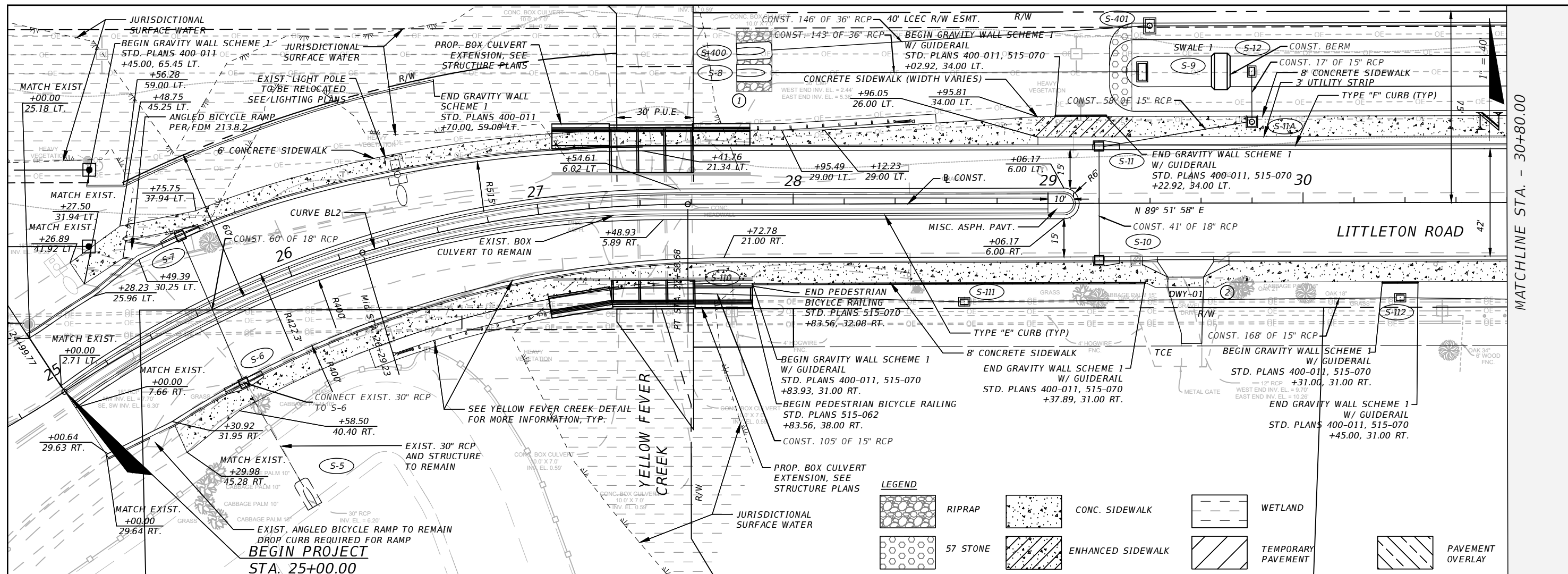
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG,
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CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

**EXISTING STORM DRAIN
INFORMATION**

SHEET NO.
27



DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.
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CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

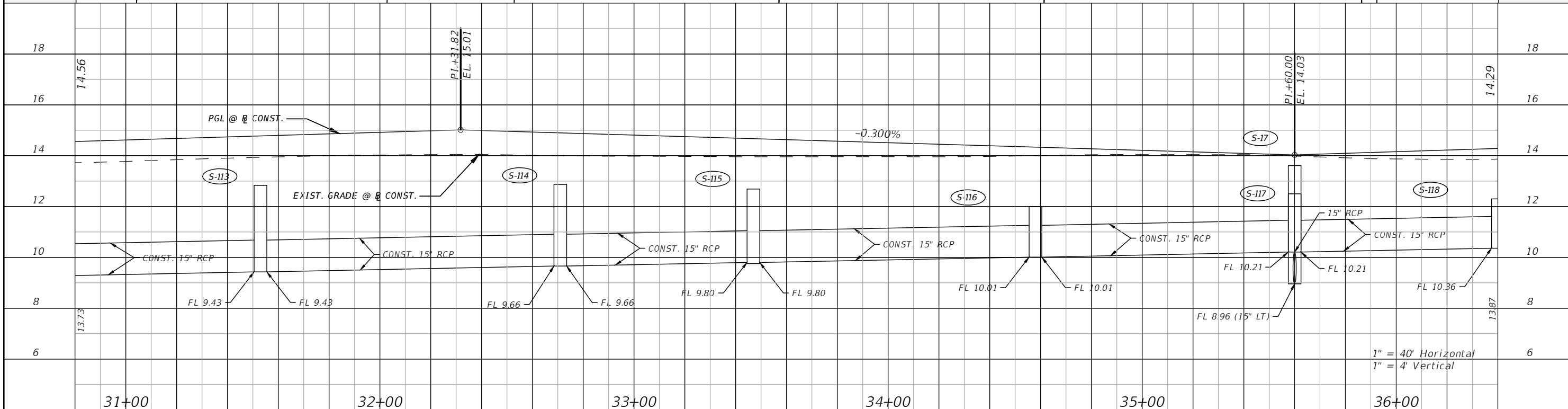
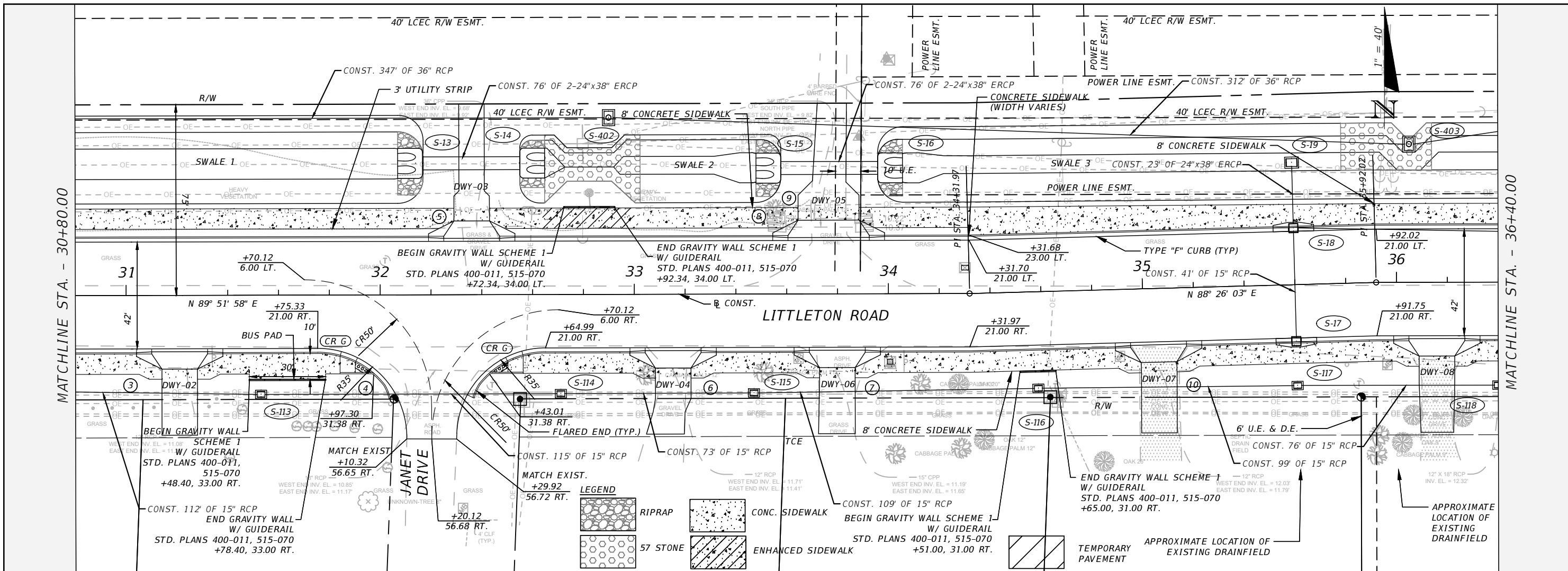
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE

SHEET NO.
28

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MATCHLINE STA. - 30+80.00



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DATE	DESCRIPTION	DATE	DESCRIPTION

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CARDNO, INC.
1821 VICTORIA AVE
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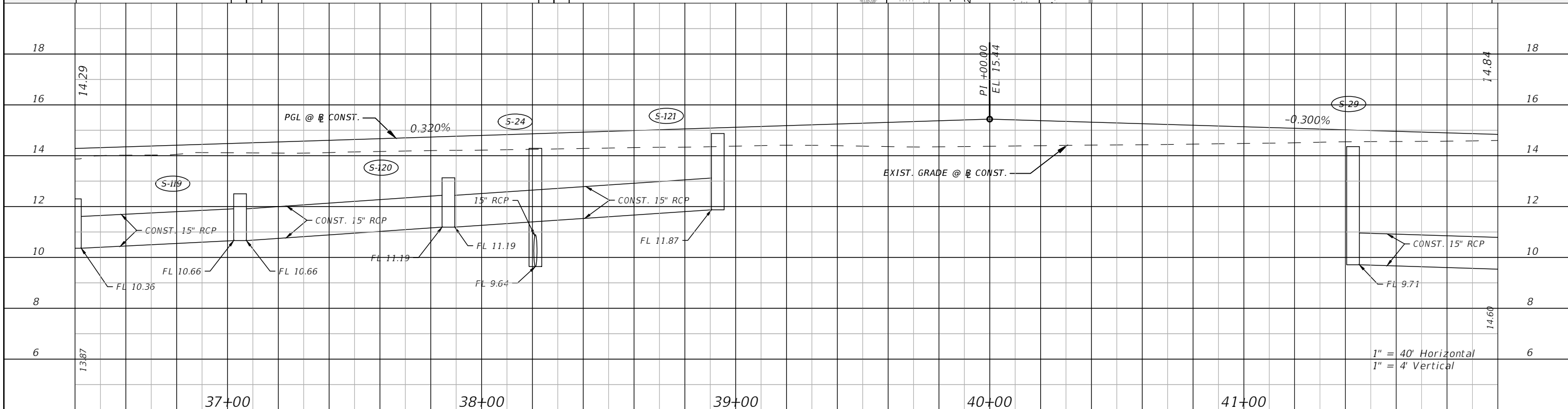
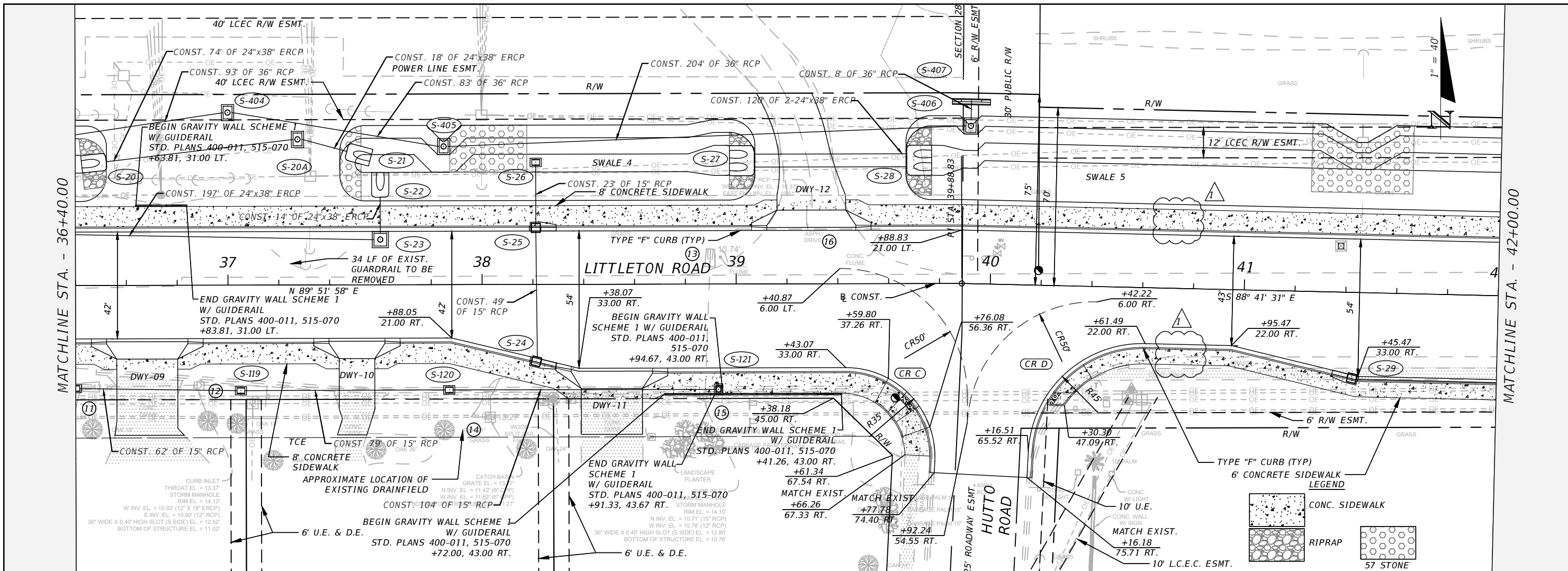
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE

SHEET NO. 29

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REVISIONS	
DATE	DESCRIPTION
9-22-21	Removed curb ramps. Δ

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1821 VICTORIA AVE
FORT MYERS, FL 33901

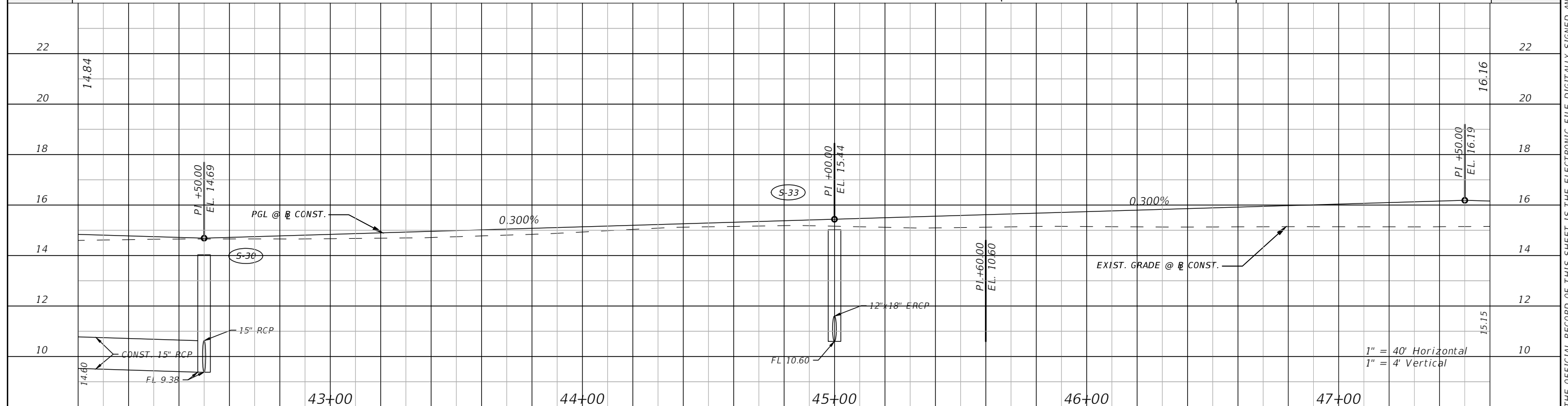
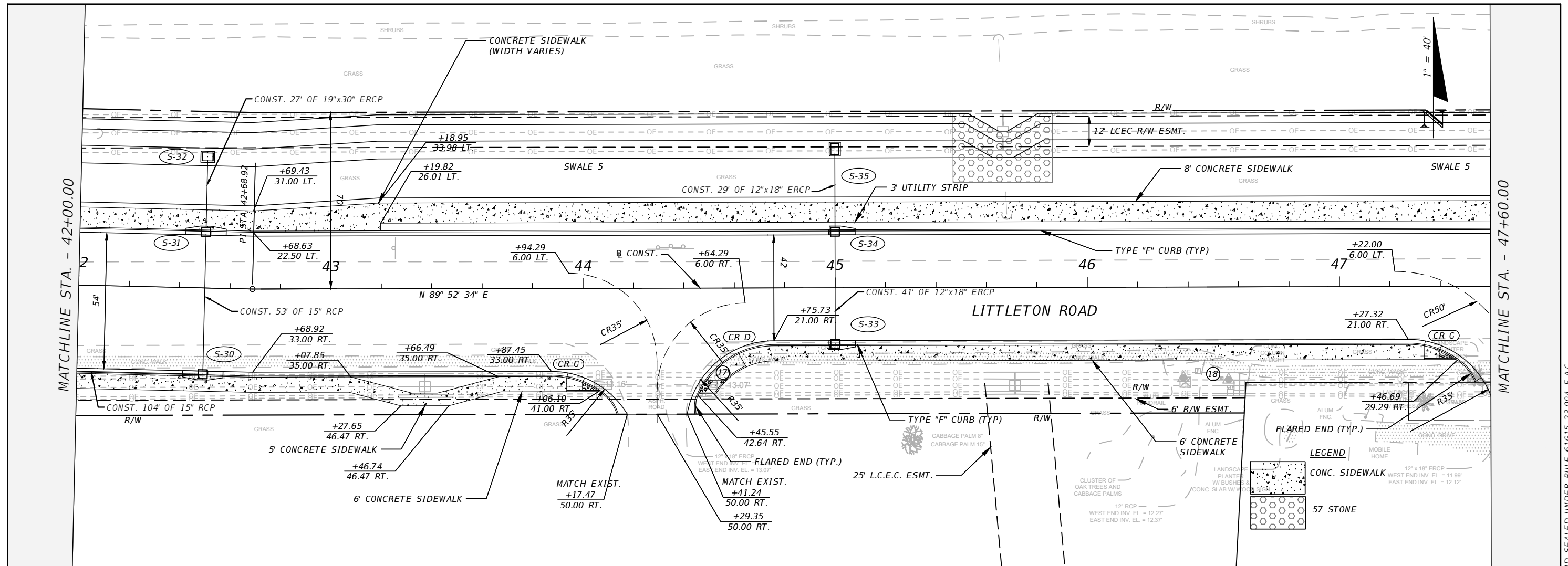
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE

SHEET NO.
30

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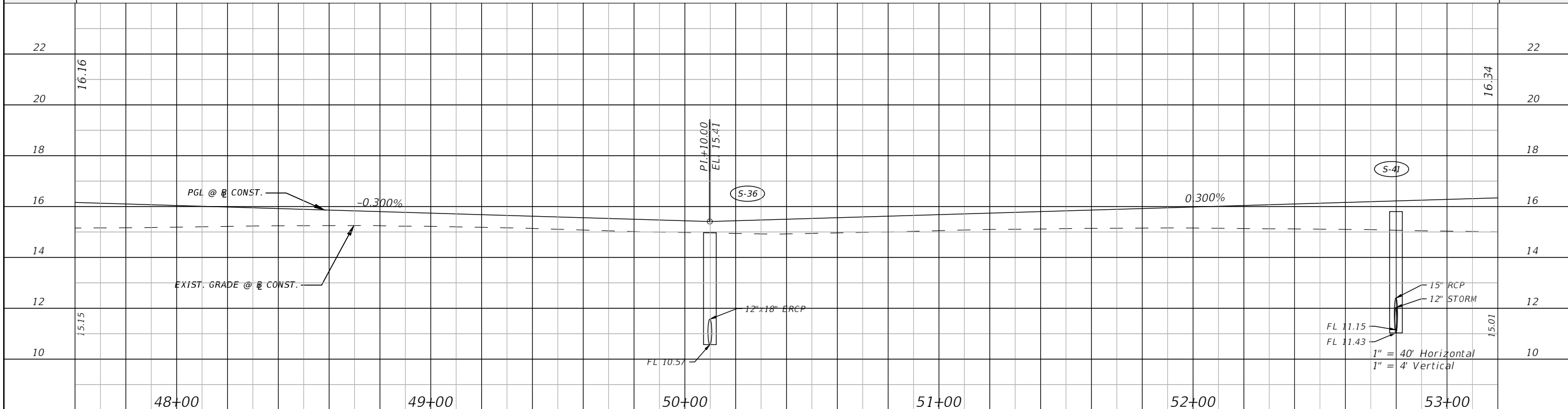
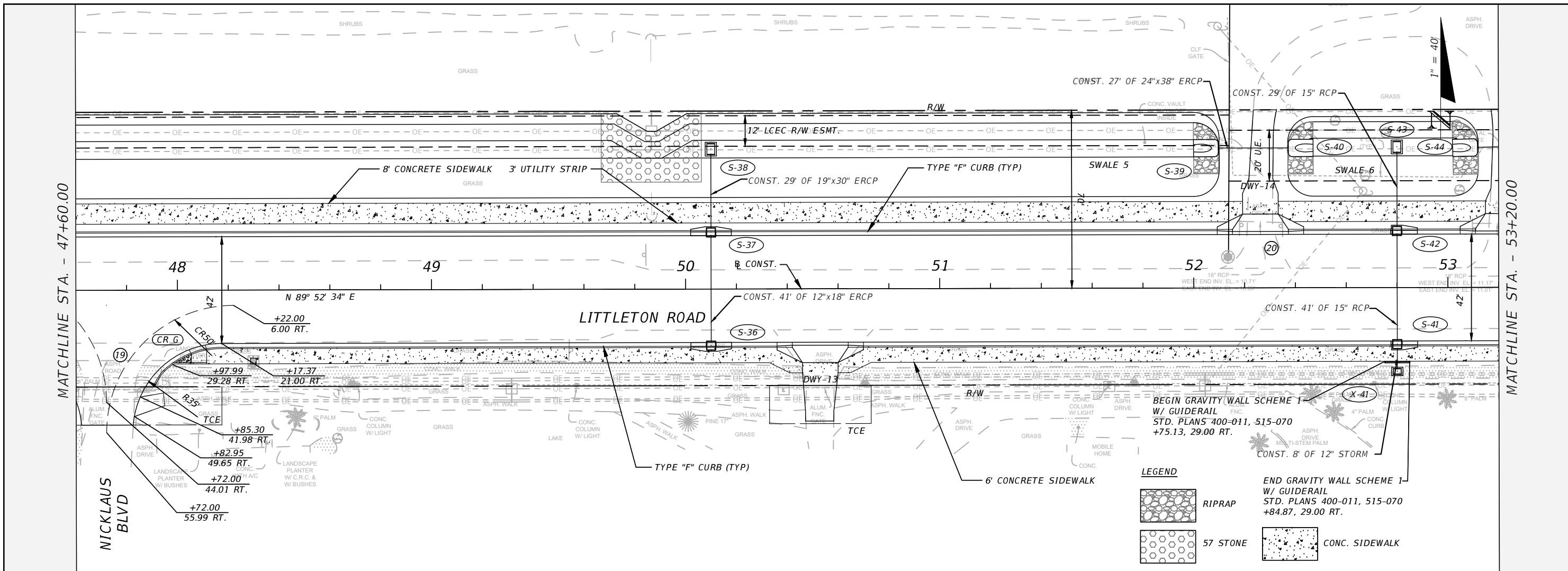
REVISIONS		DESCRIPTION		DATE	DESCRIPTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			
						31

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CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY
DEPARTMENT OF TRANSPORTATION
ROAD NAME: LITTLETON ROAD
COUNTY: LEE
CONTRACT NO.: CN190114

ROADWAY PLAN AND PROFILE

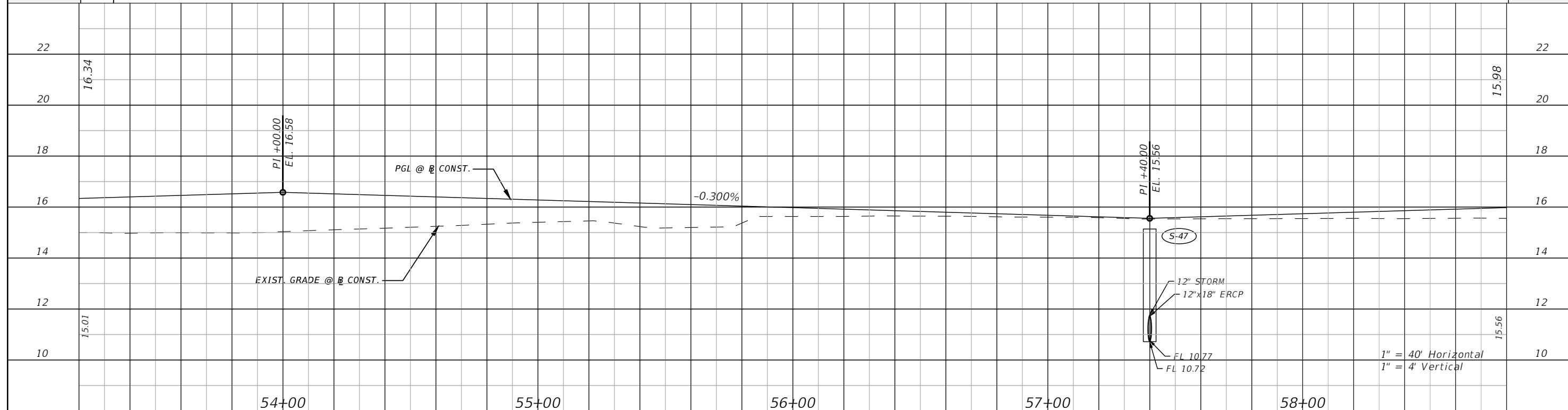
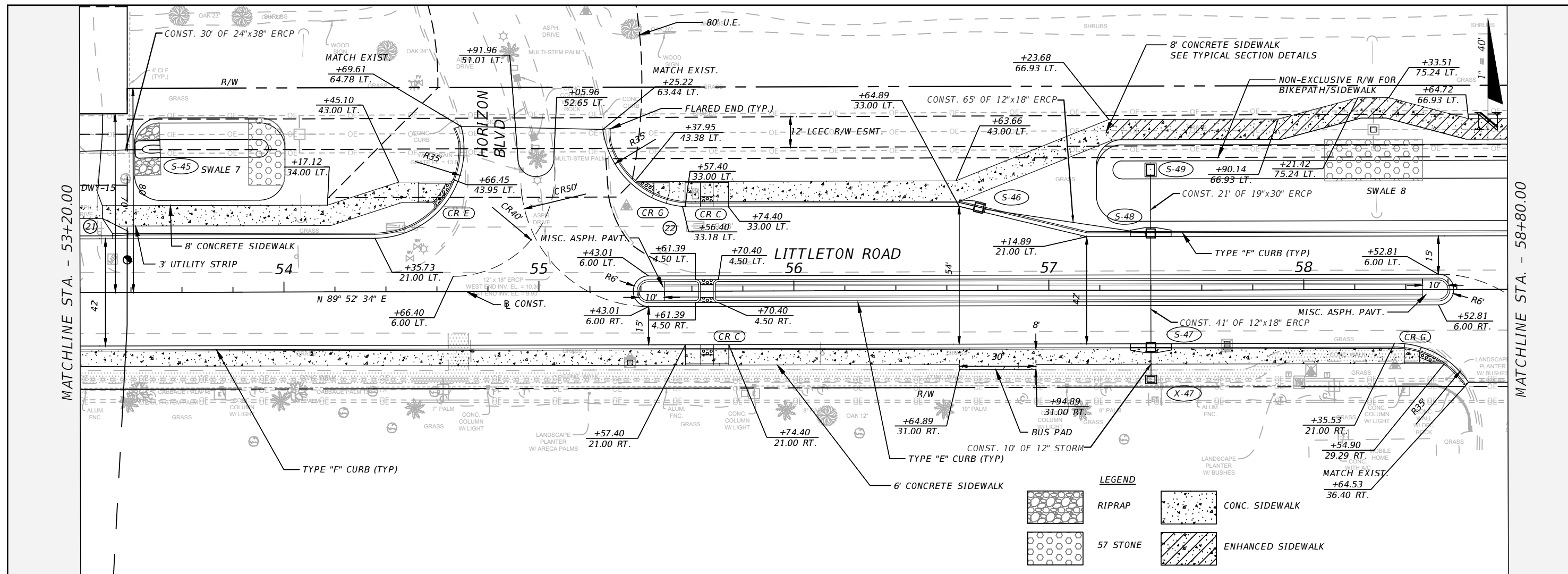
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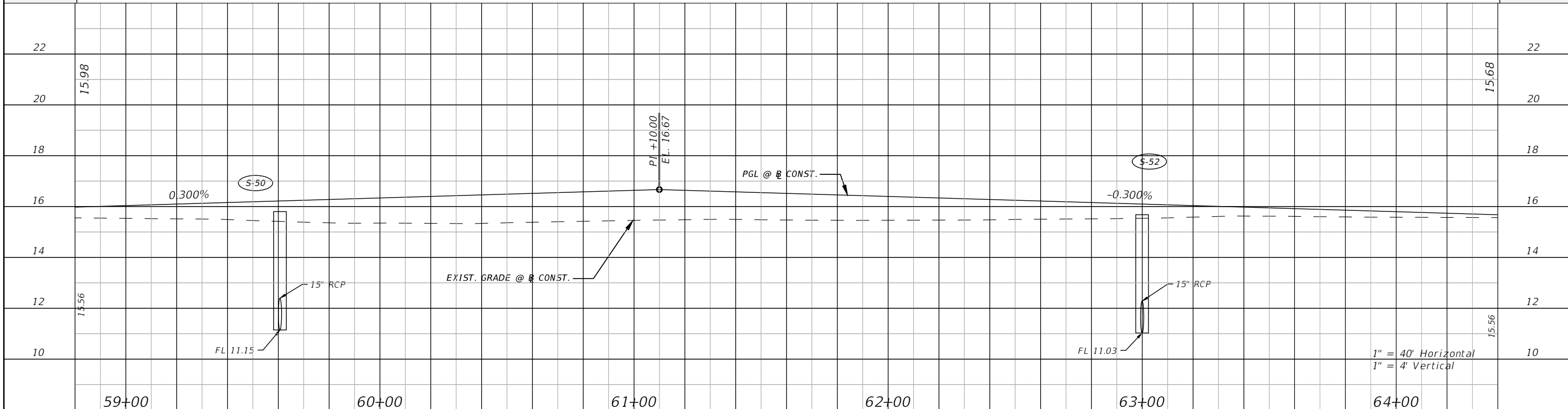
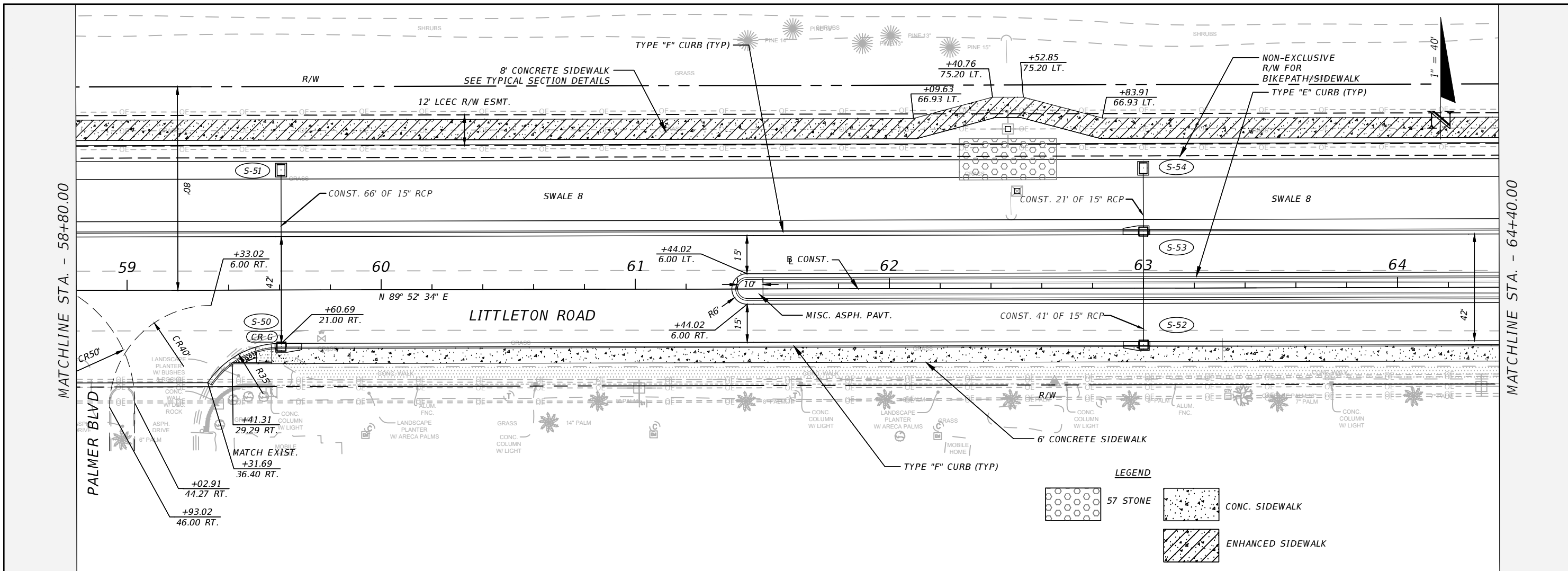
DANIEL M. CRAIG, P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901			LEE COUNTY DEPARTMENT OF TRANSPORTATION ROAD NAME: LITTLETON ROAD COUNTY: LEE CONTRACT NO.: CN190114			ROADWAY PLAN AND PROFILE SHEET NO. 32
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REVISIONS				DANIEL M. CRAIG, P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN AND PROFILE	SHEET NO. 33
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
					LITTLETON ROAD	LEE	CN190114		

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1821 VICTORIA AVE
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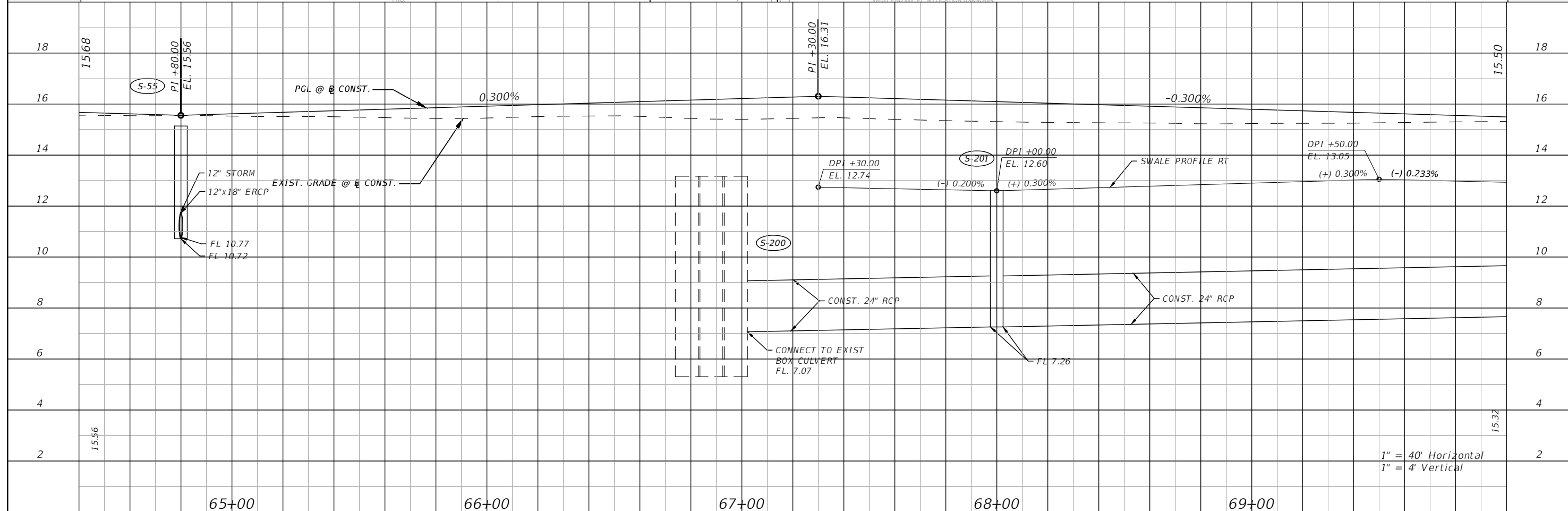
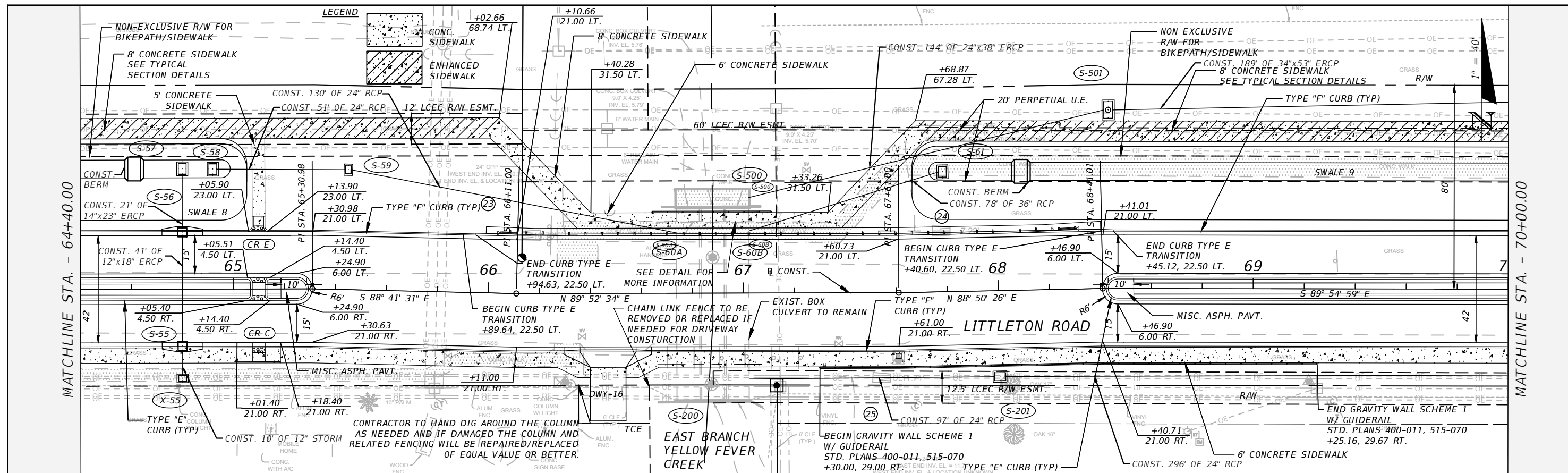
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE

SHEET NO.
34

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DATE	DESCRIPTION	DATE	DESCRIPTION

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1821 VICTORIA AVE
FORT MYERS, FL 33901

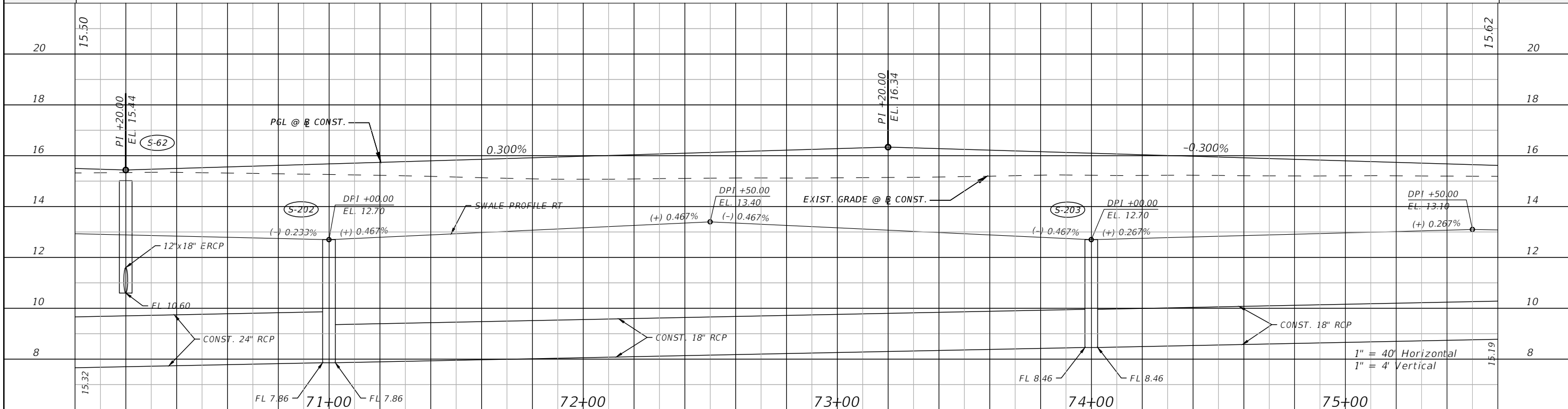
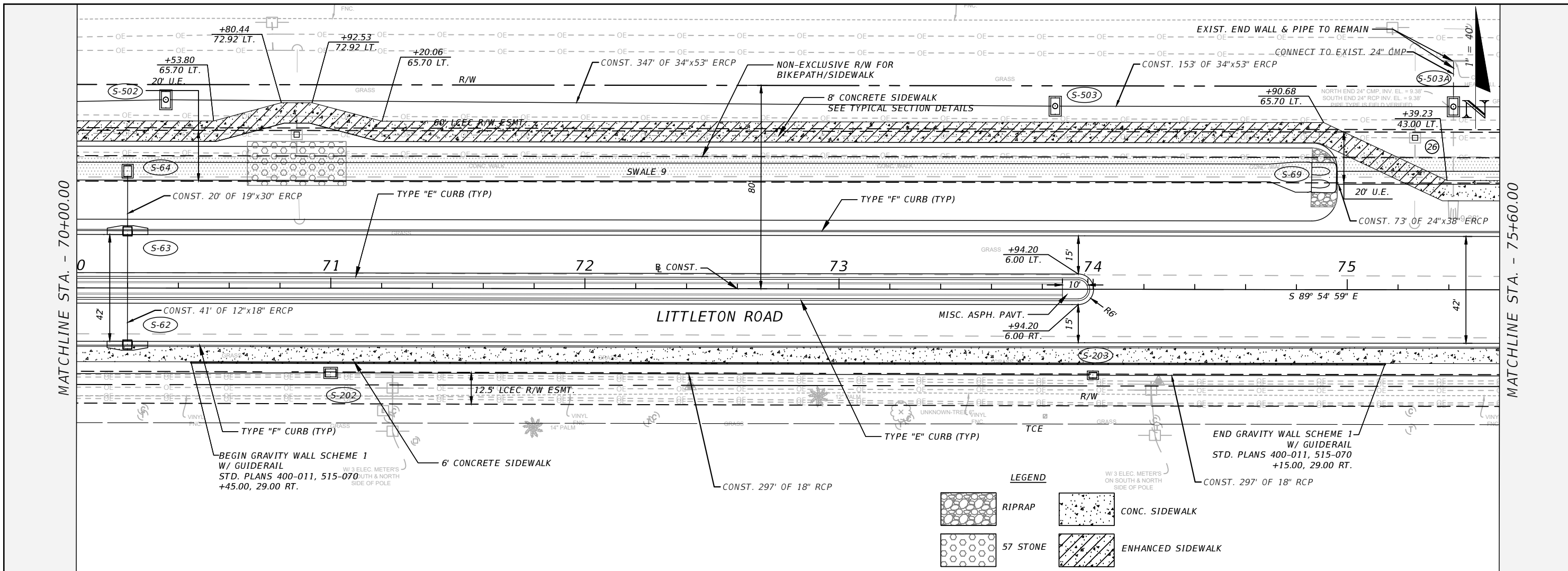
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE

SHEET NO.
35

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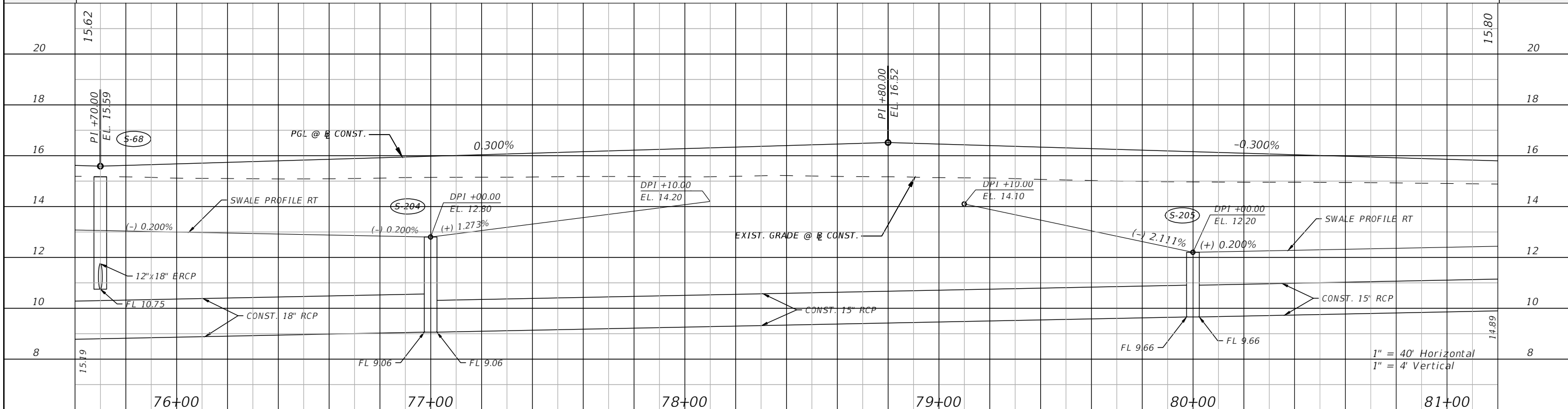
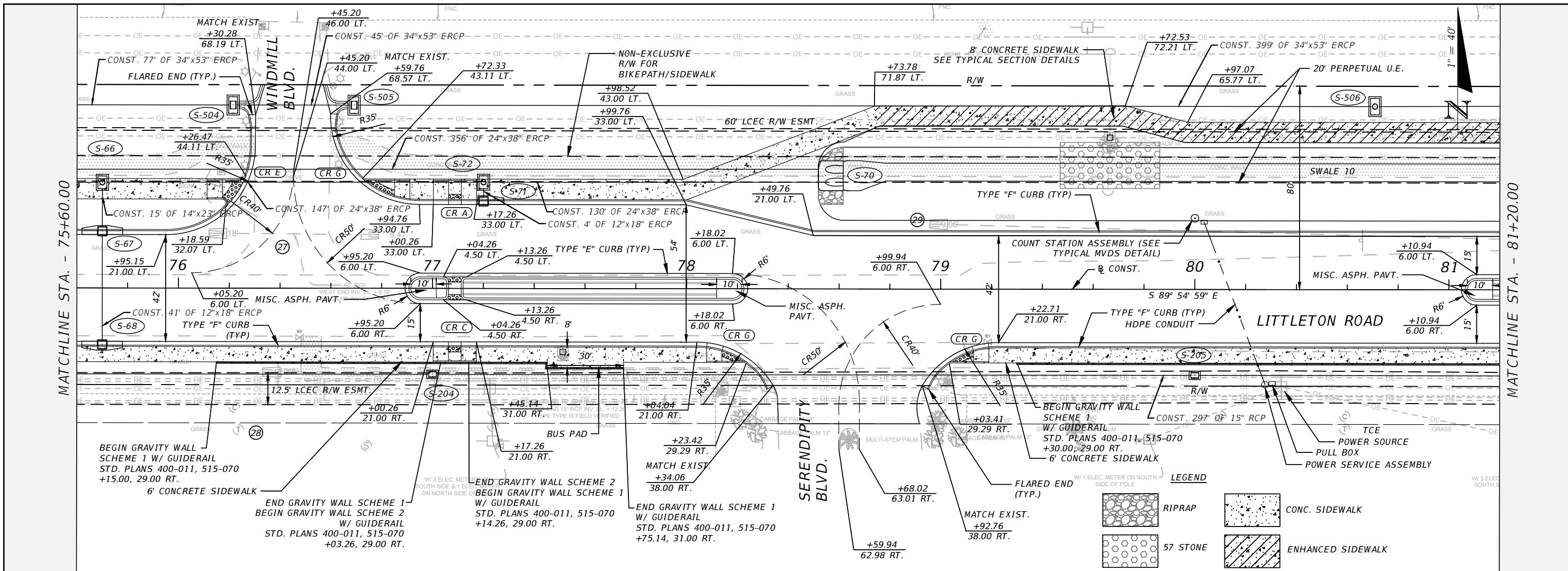
REVISIONS	
DATE	DESCRIPTION

DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE		SHEET NO. 36
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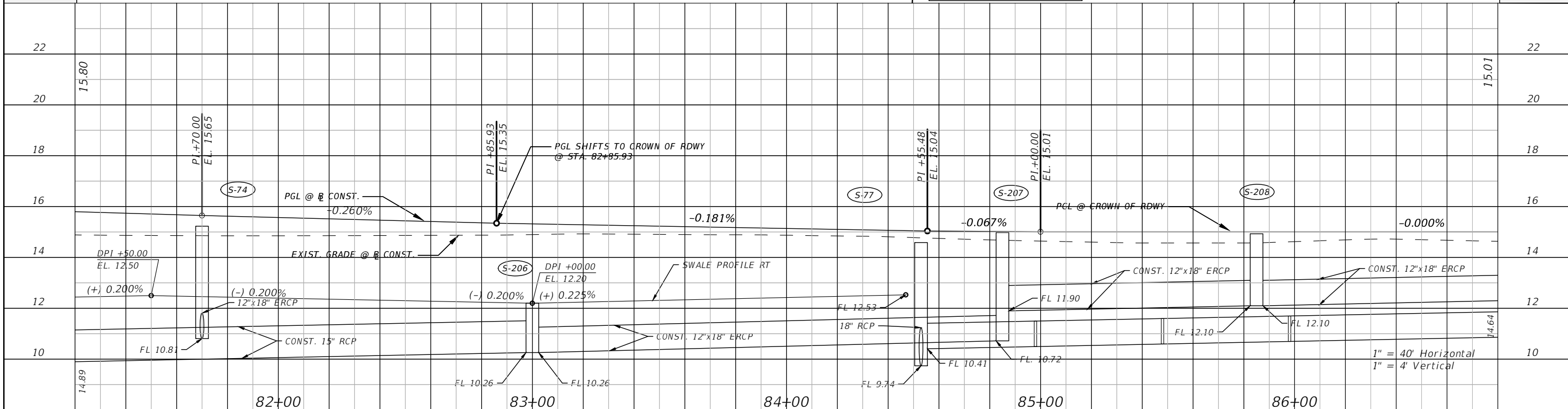
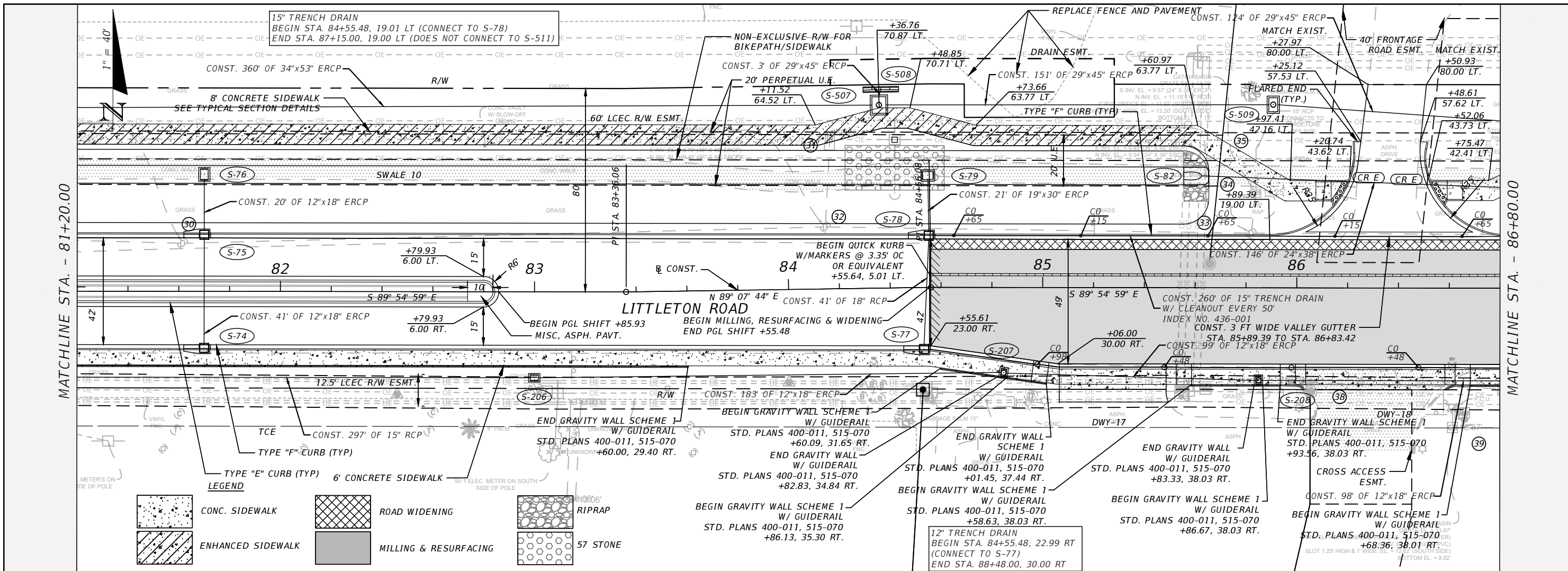
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG,
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CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE		SHEET NO. 37
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DATE	DESCRIPTION	DATE	DESCRIPTION

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1821 VICTORIA AVE
FORT MYERS, FL 33901

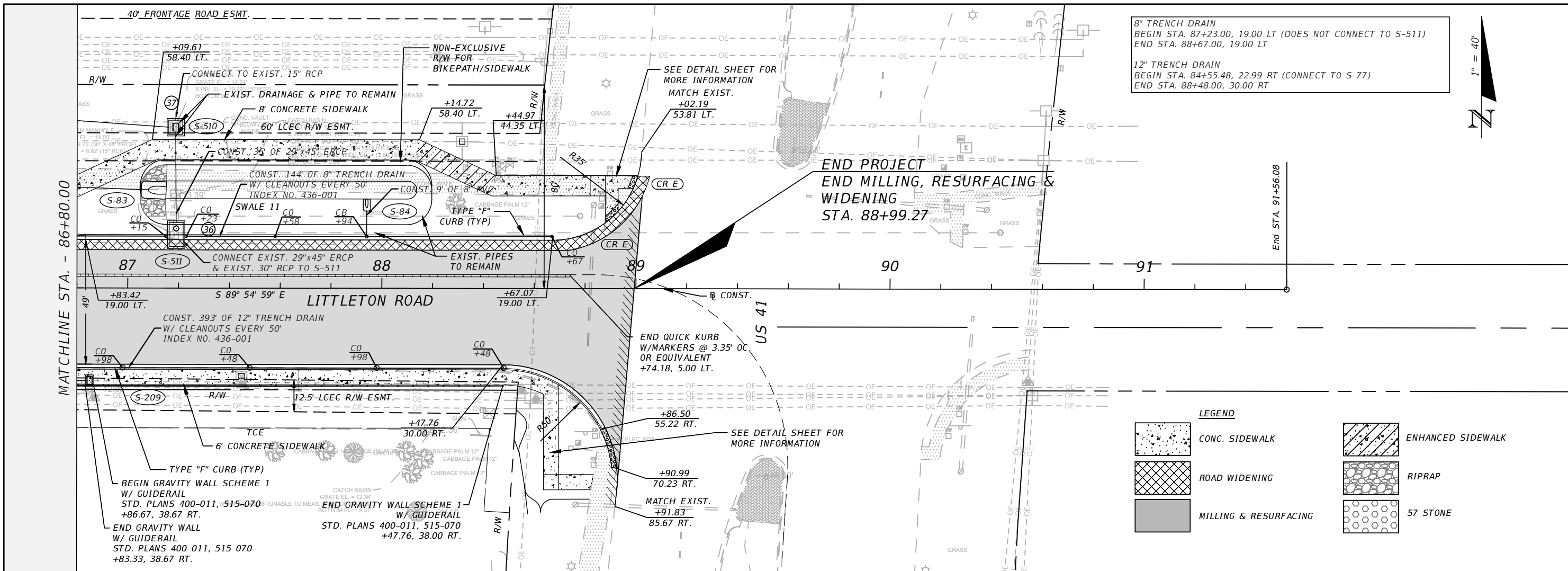
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY PLAN AND PROFILE

SHEET NO. 38

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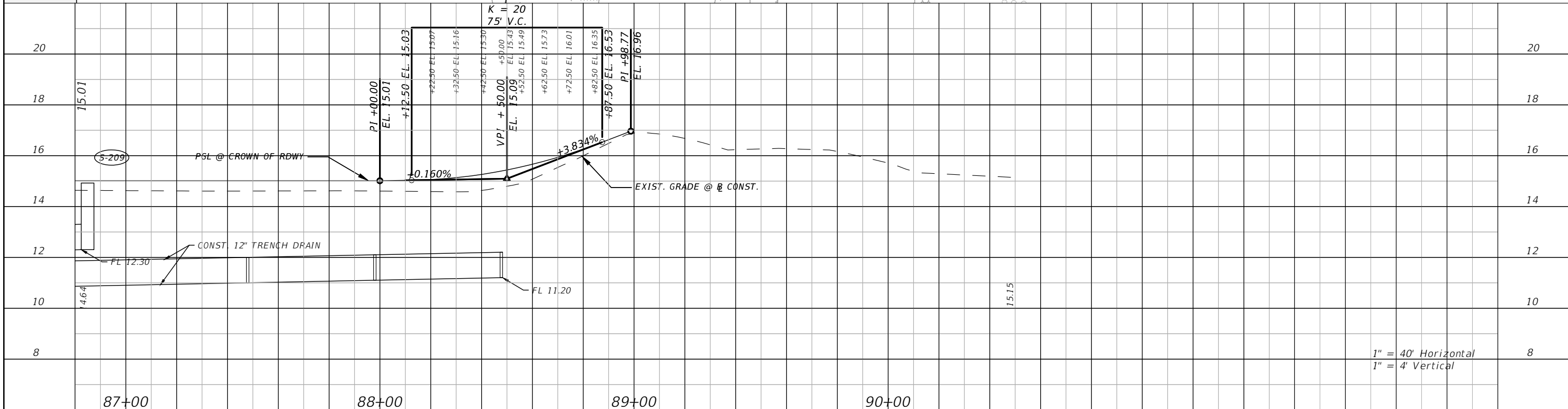
8" TRENCH DRAIN
 BEGIN STA. 87+23.00, 19.00 LT (DOES NOT CONNECT TO S-511)
 END STA. 88+67.00, 19.00 LT

12" TRENCH DRAIN
 BEGIN STA. 84+55.48, 22.99 RT (CONNECT TO S-77)
 END STA. 88+48.00, 30.00 RT



MATCHLINE STA. - 86+80.00

End STA. 91+56.08



1" = 40' Horizontal
 1" = 4' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

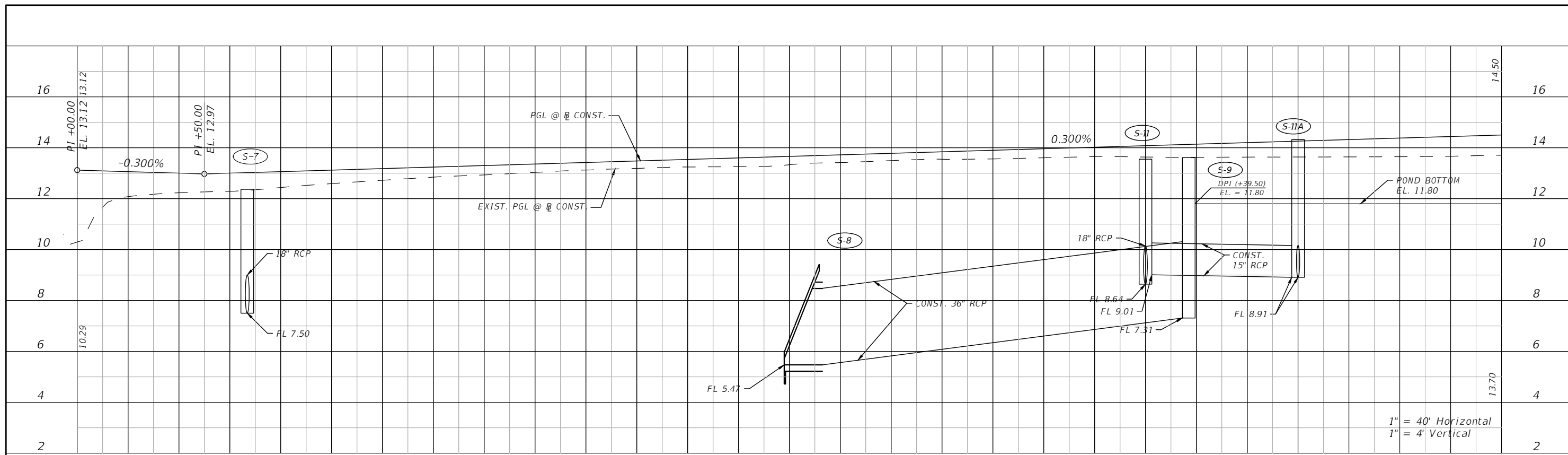
DANIEL M. CRAIG,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

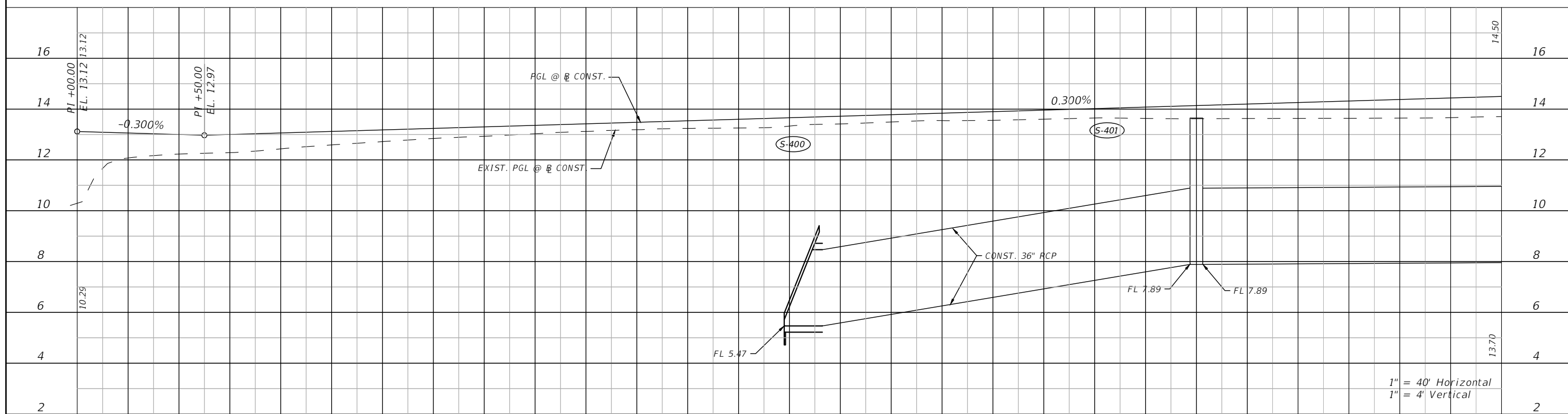
ROADWAY PLAN AND PROFILE

SHEET NO.
39

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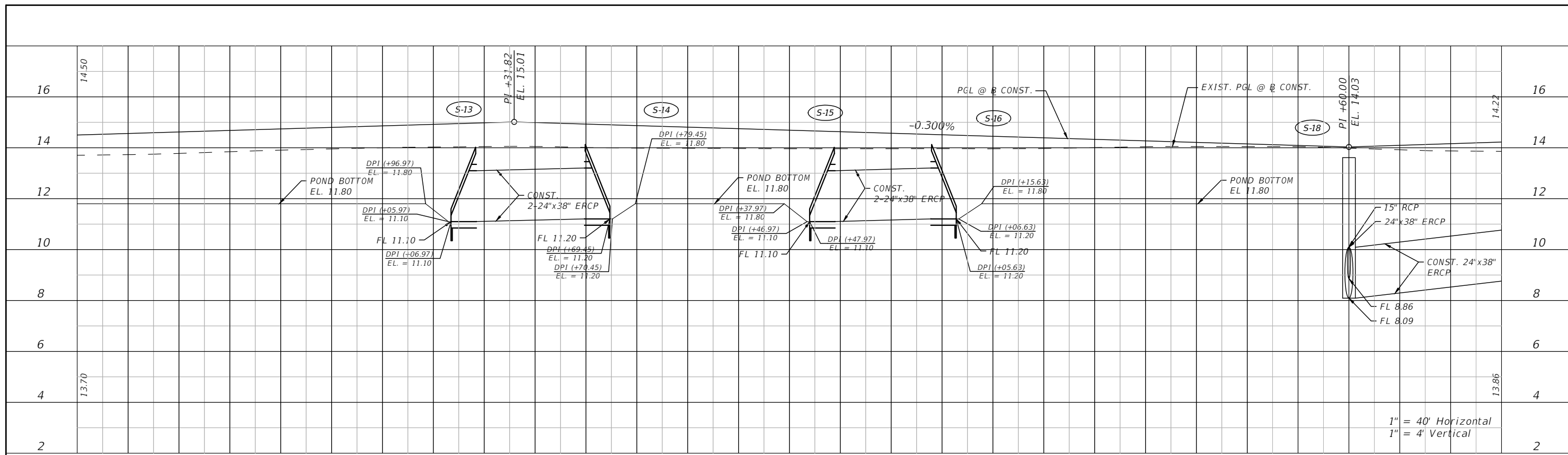
ON-SITE DRAINAGE PROFILE LT



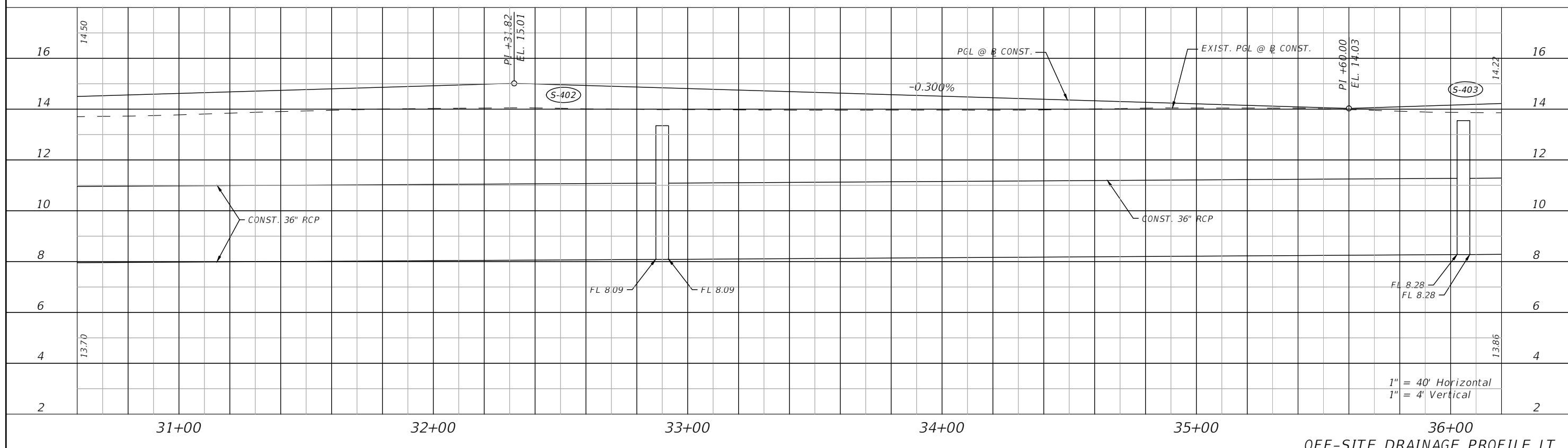
OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 40
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
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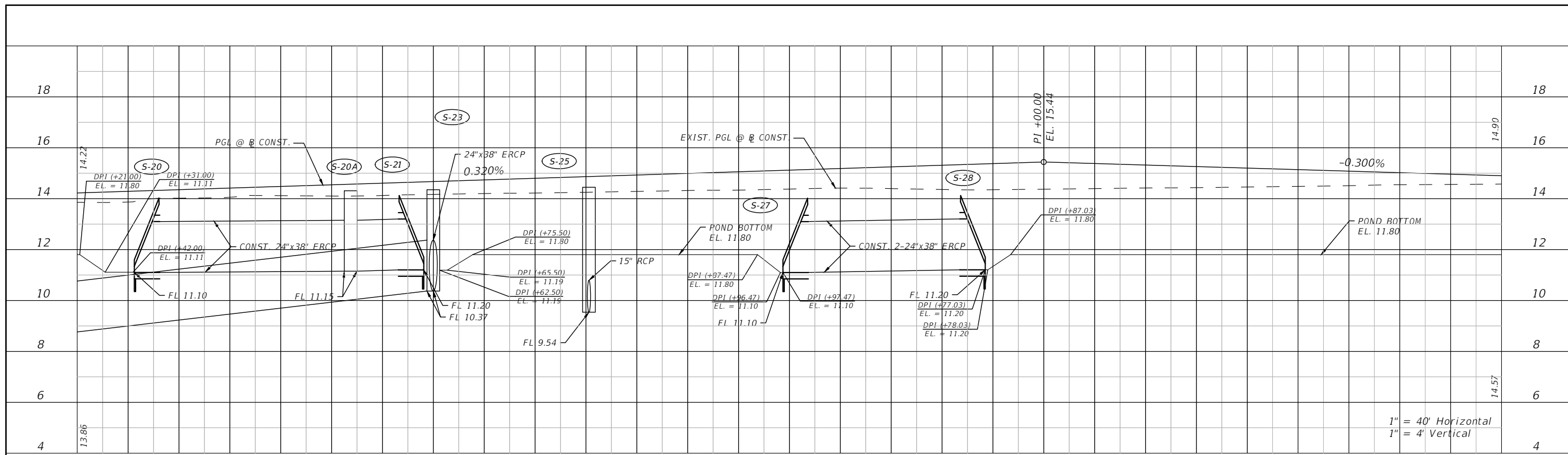
ON-SITE DRAINAGE PROFILE LT



OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY PROFILE LT	SHEET NO. 41
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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37+00

38+00

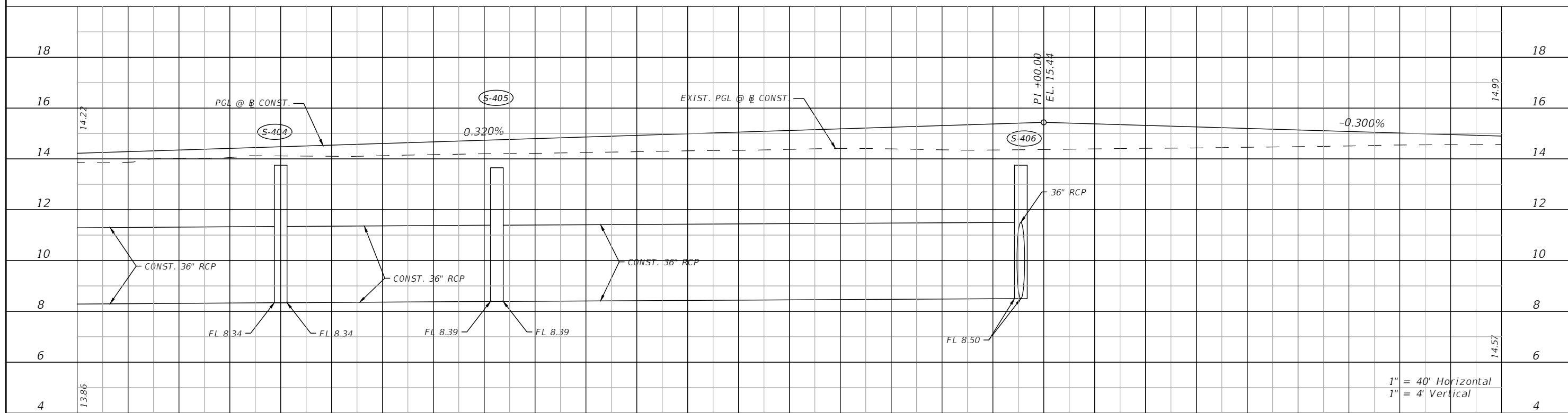
39+00

40+00

41+00

ON-SITE DRAINAGE PROFILE LT

1" = 40' Horizontal
1" = 4' Vertical



37+00

38+00

39+00

40+00

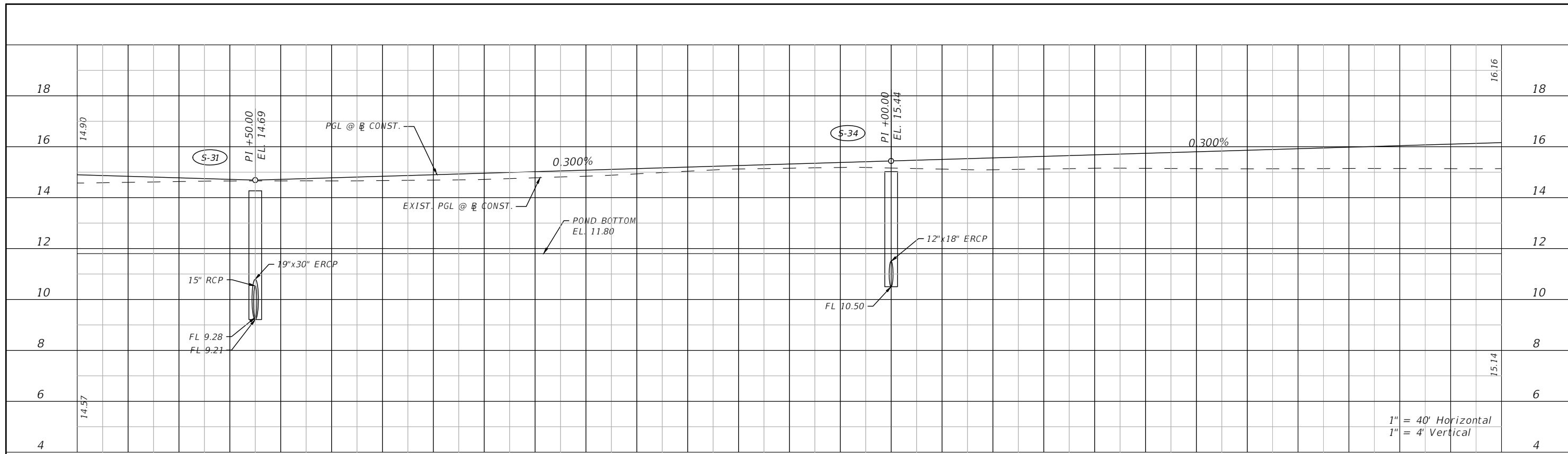
41+00

OFF-SITE DRAINAGE PROFILE LT

1" = 40' Horizontal
1" = 4' Vertical

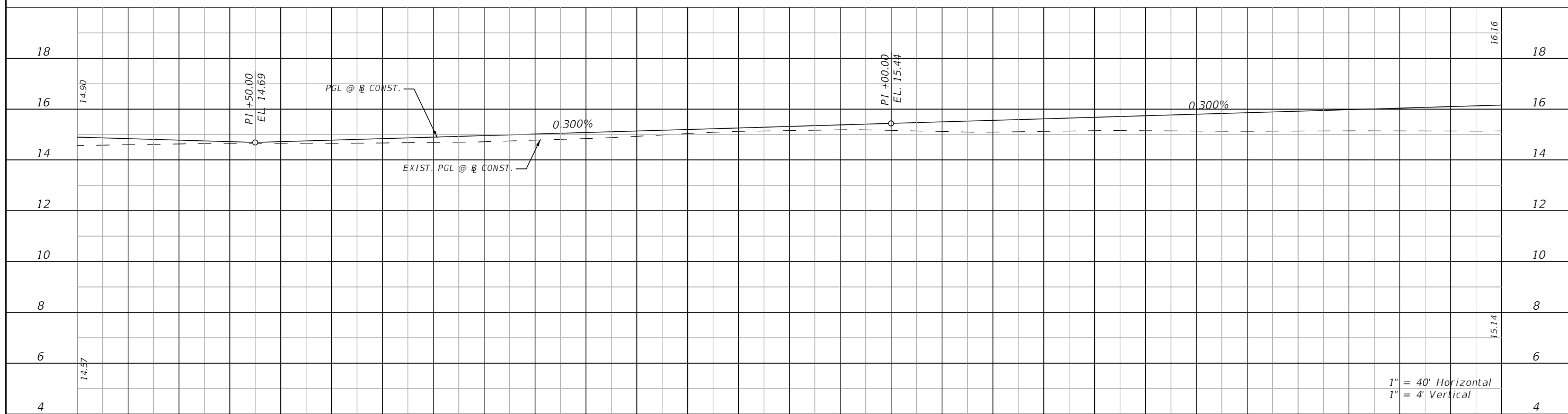
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 42
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

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ON-SITE DRAINAGE PROFILE LT

1" = 40' Horizontal
1" = 4' Vertical

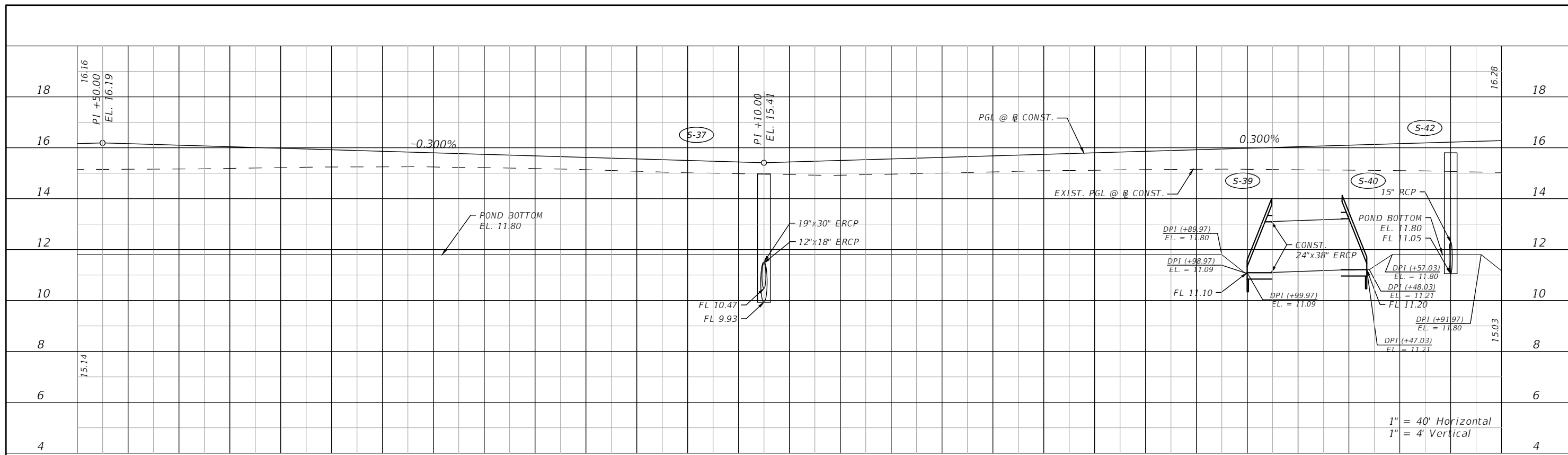


OFF-SITE DRAINAGE PROFILE LT

1" = 40' Horizontal
1" = 4' Vertical

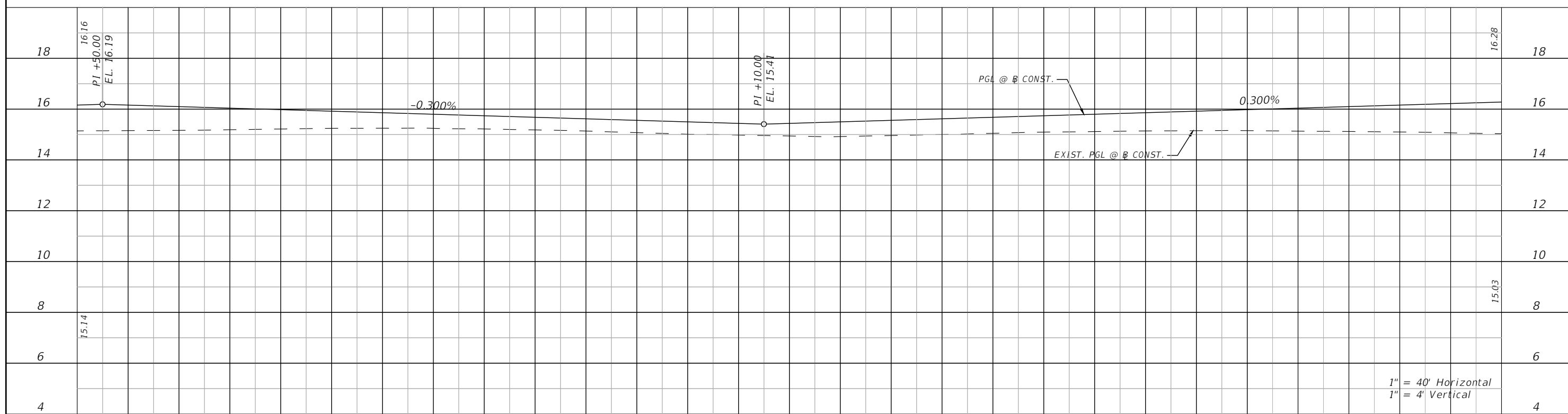
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	43

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ON-SITE DRAINAGE PROFILE LT

1" = 40' Horizontal
1" = 4' Vertical

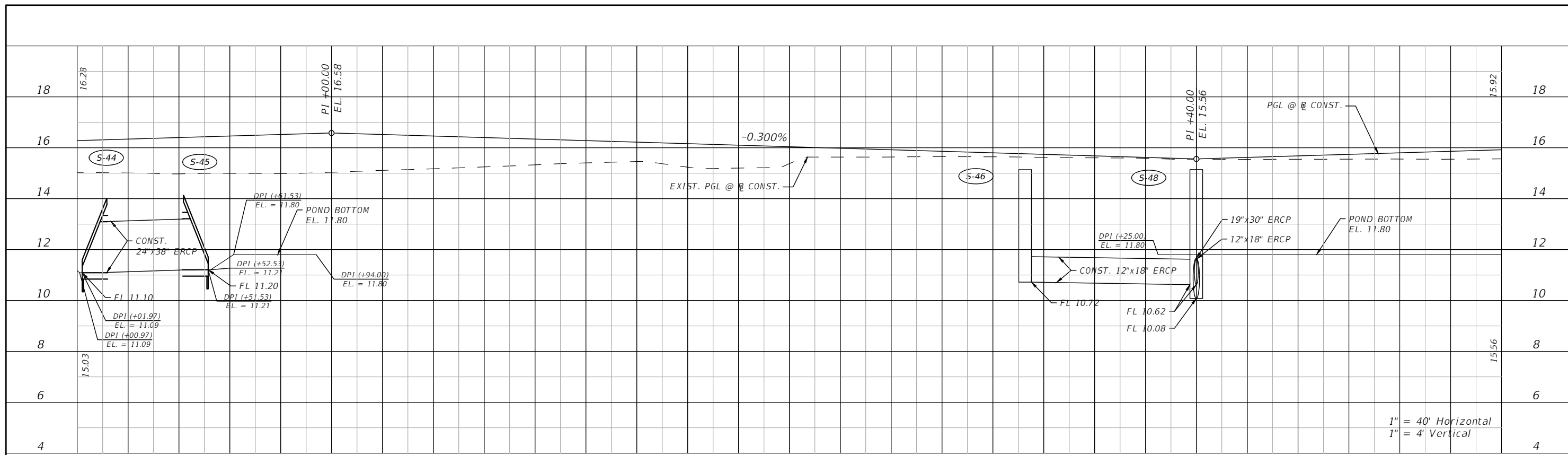


OFF-SITE DRAINAGE PROFILE LT

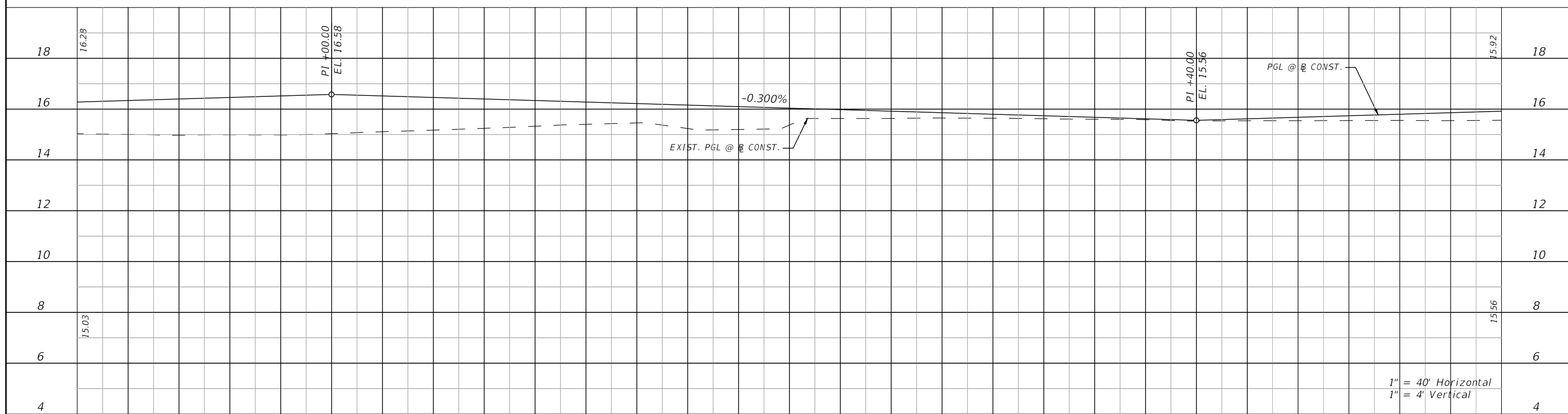
1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	44

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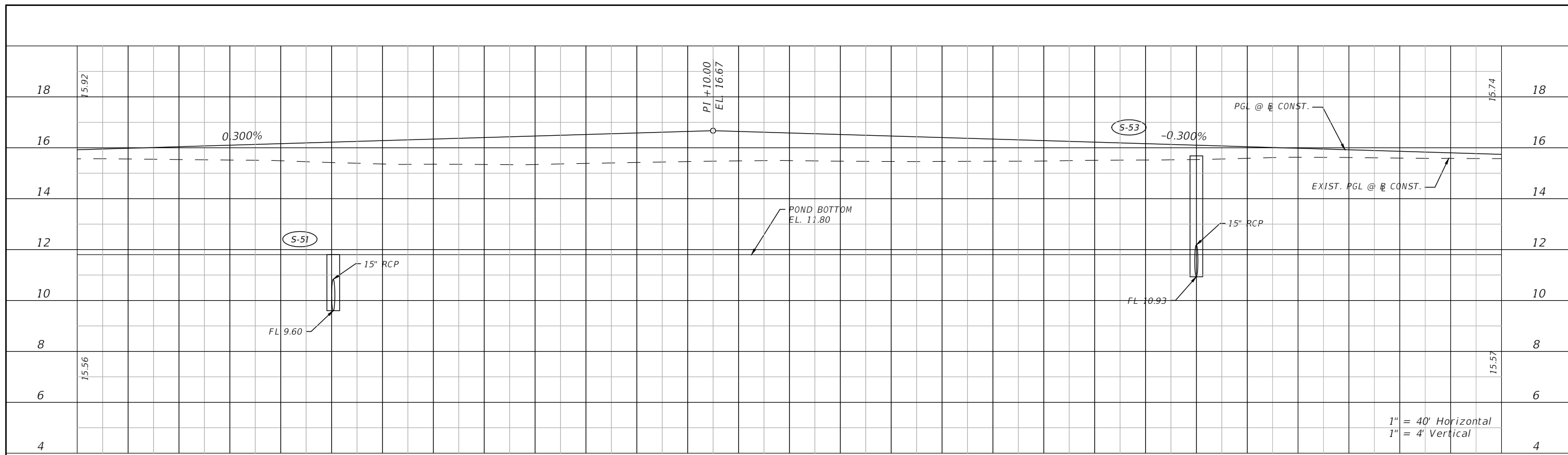
ON-SITE DRAINAGE PROFILE LT



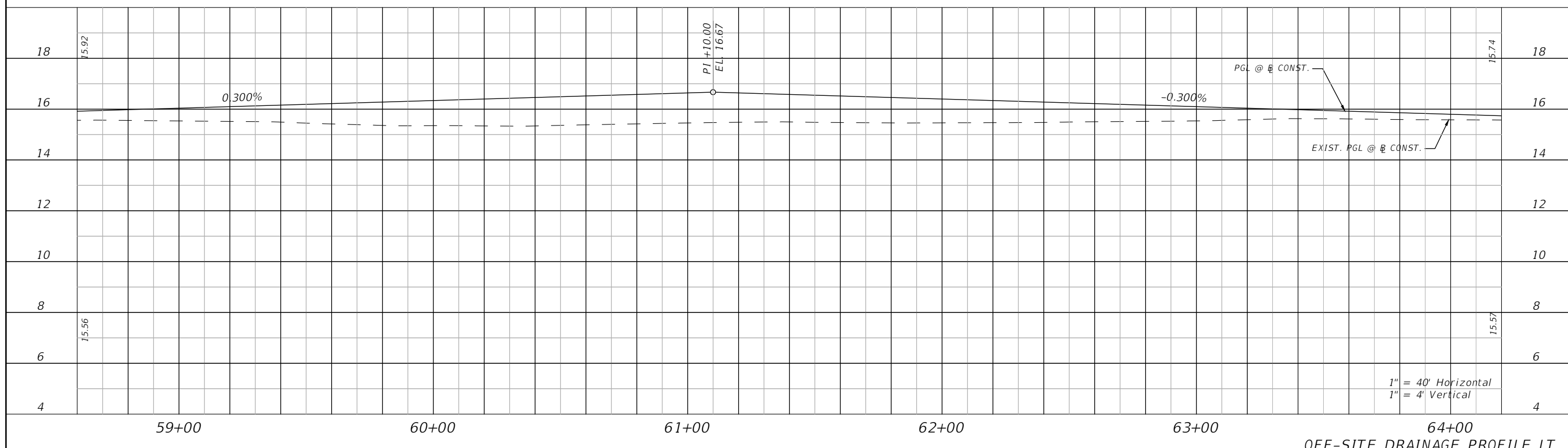
OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	45

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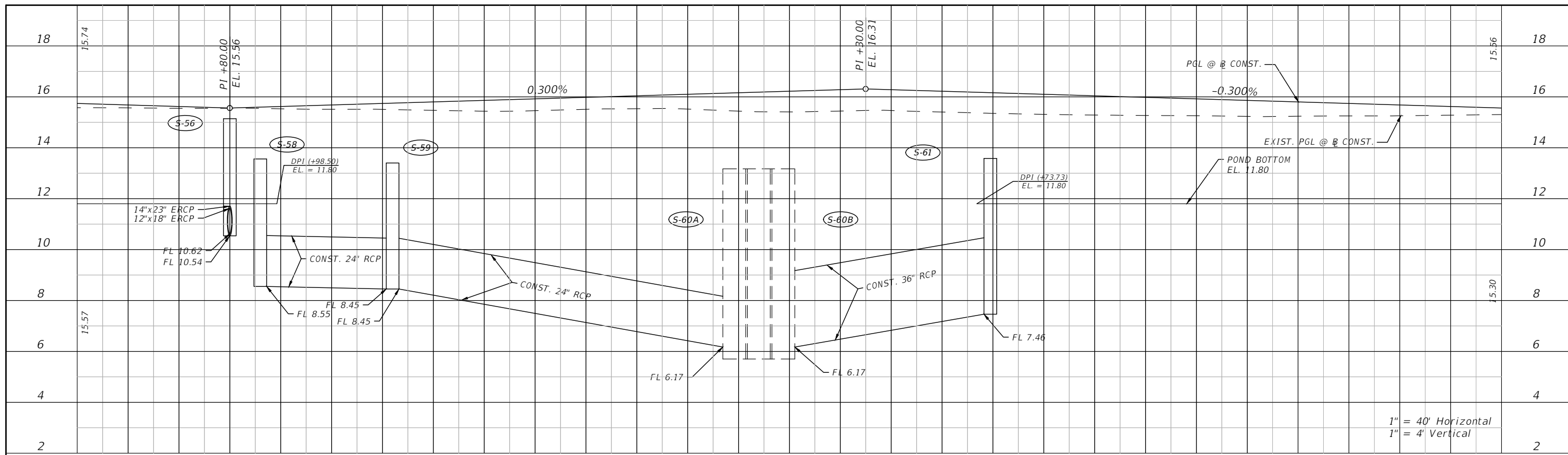
ON-SITE DRAINAGE PROFILE LT



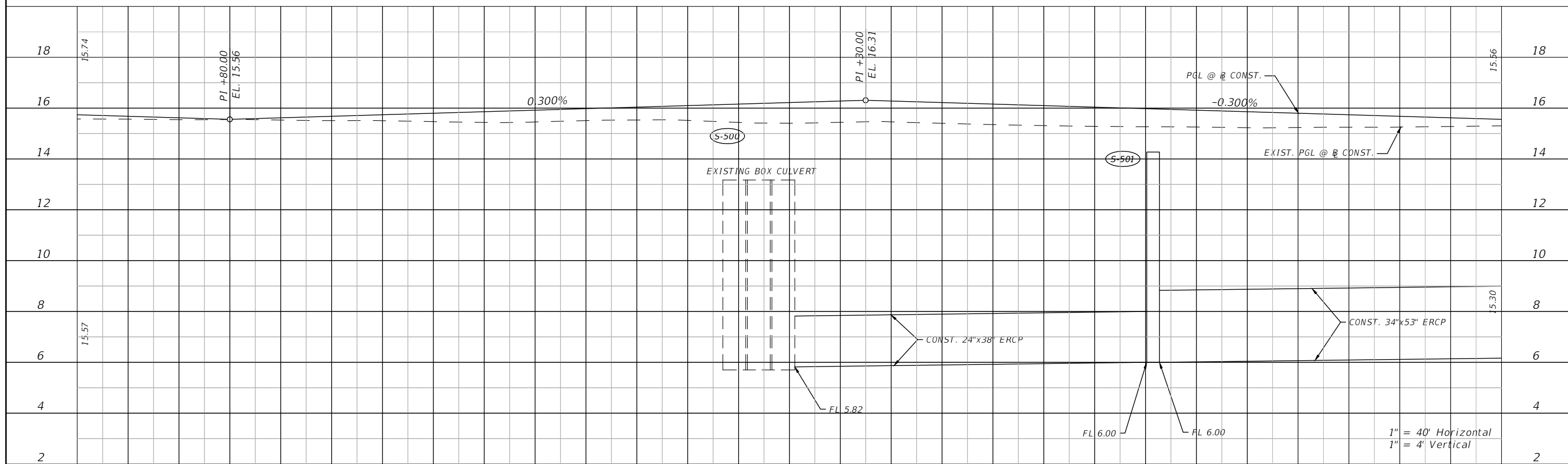
OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	46

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



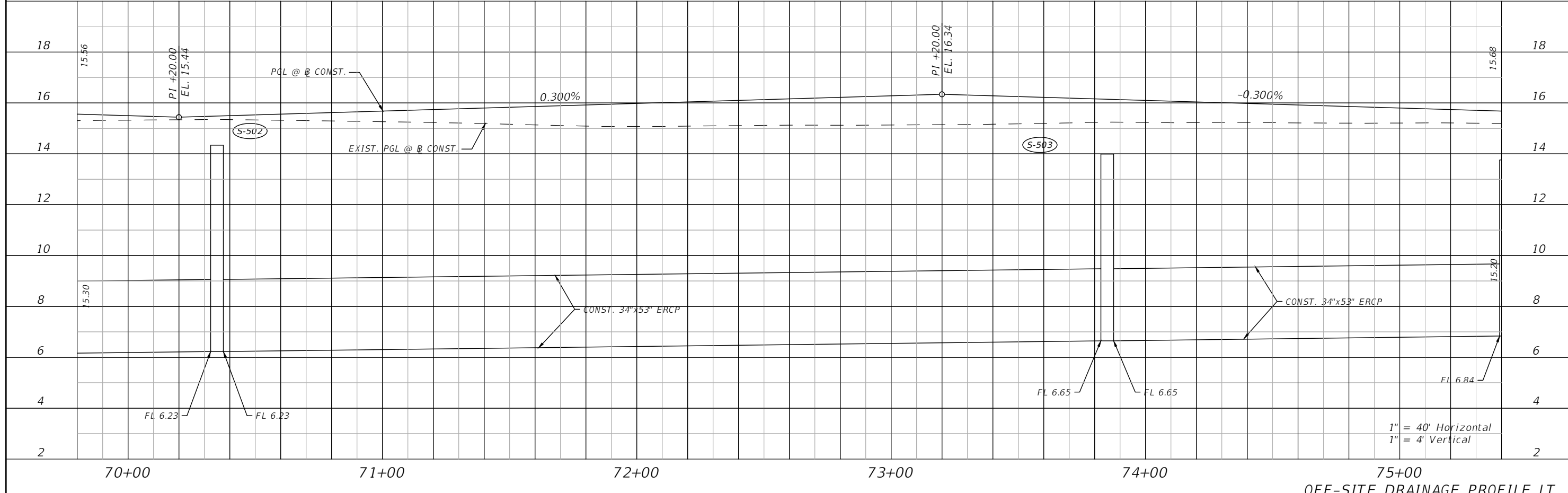
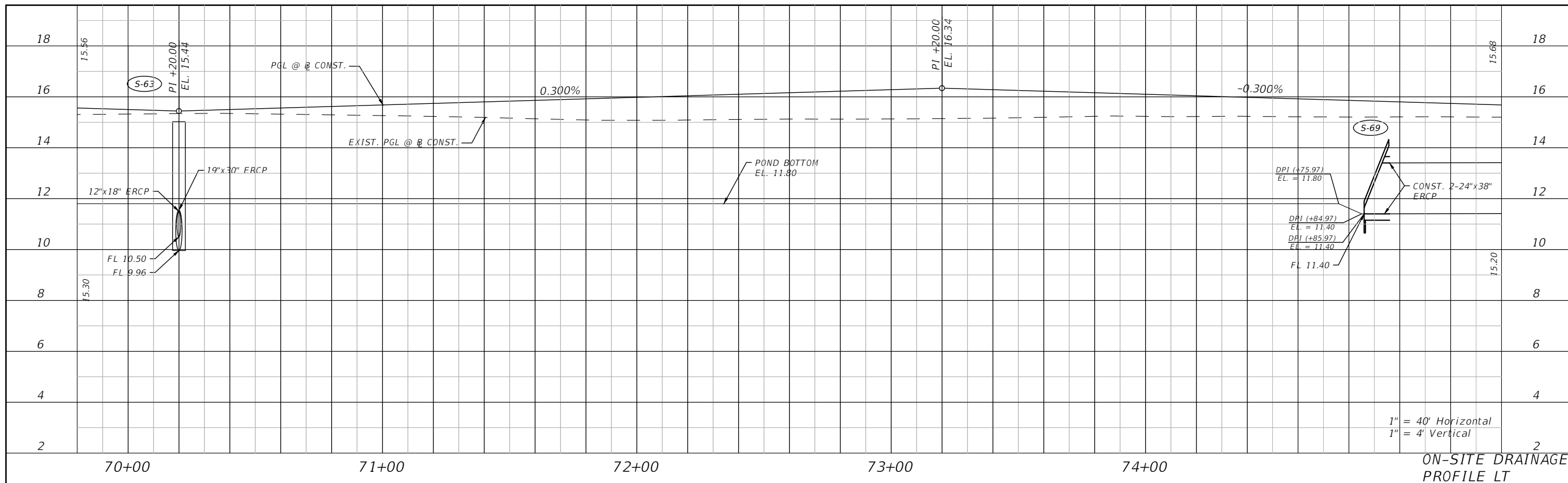
65+00 66+00 67+00 68+00 ON-SITE DRAINAGE PROFILE LT



65+00 66+00 67+00 68+00 69+00 OFF-SITE DRAINAGE PROFILE LT

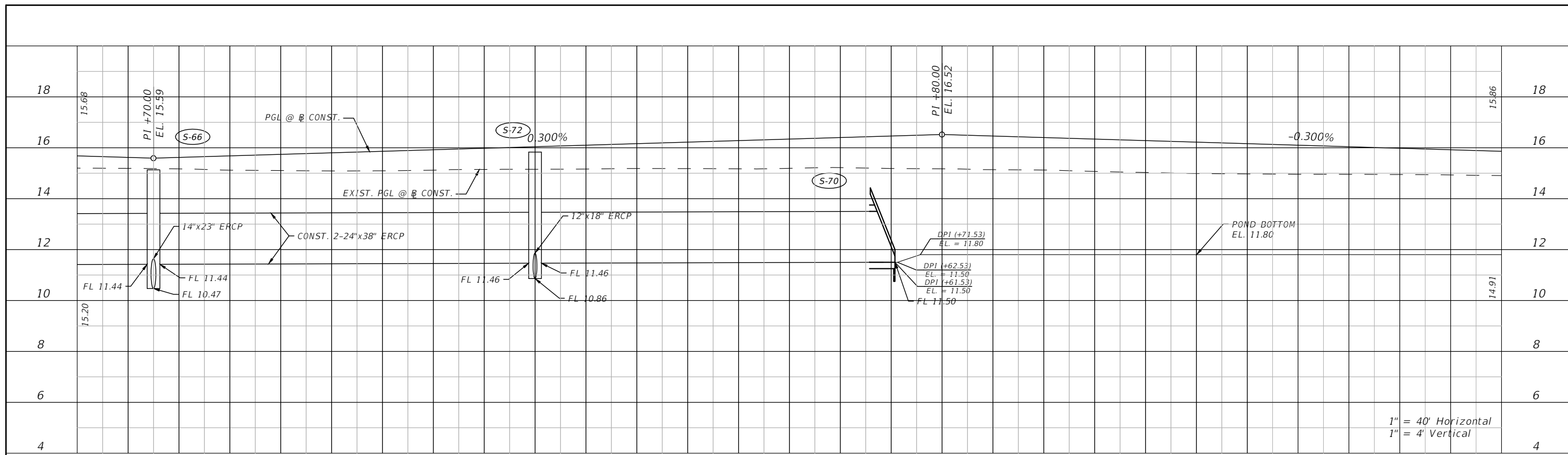
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 47
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

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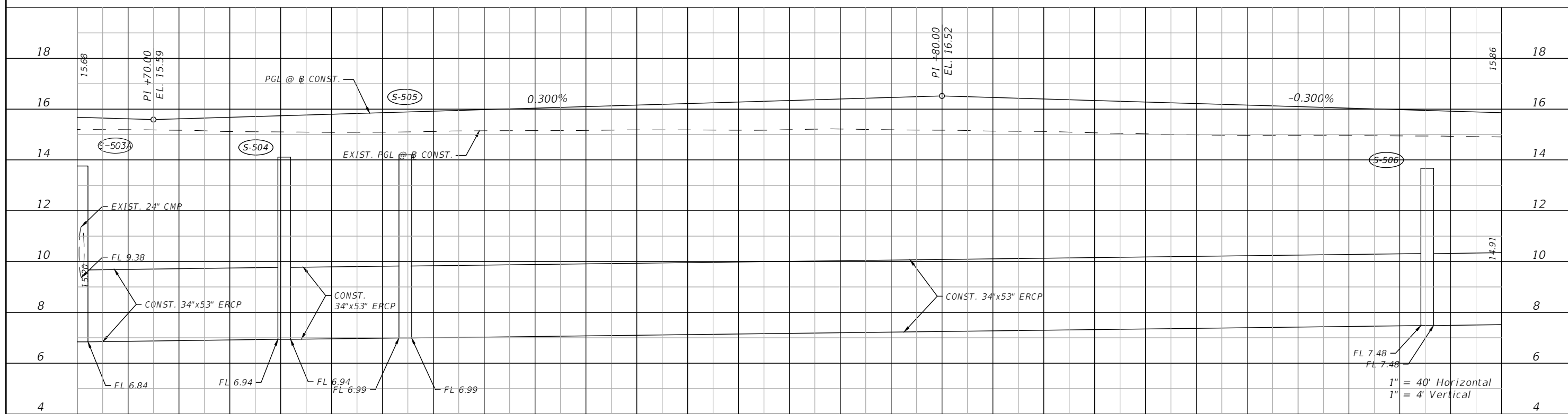
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY PROFILE LT	SHEET NO. 48
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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76+00 77+00 78+00 79+00 80+00 81+00

ON-SITE DRAINAGE PROFILE LT

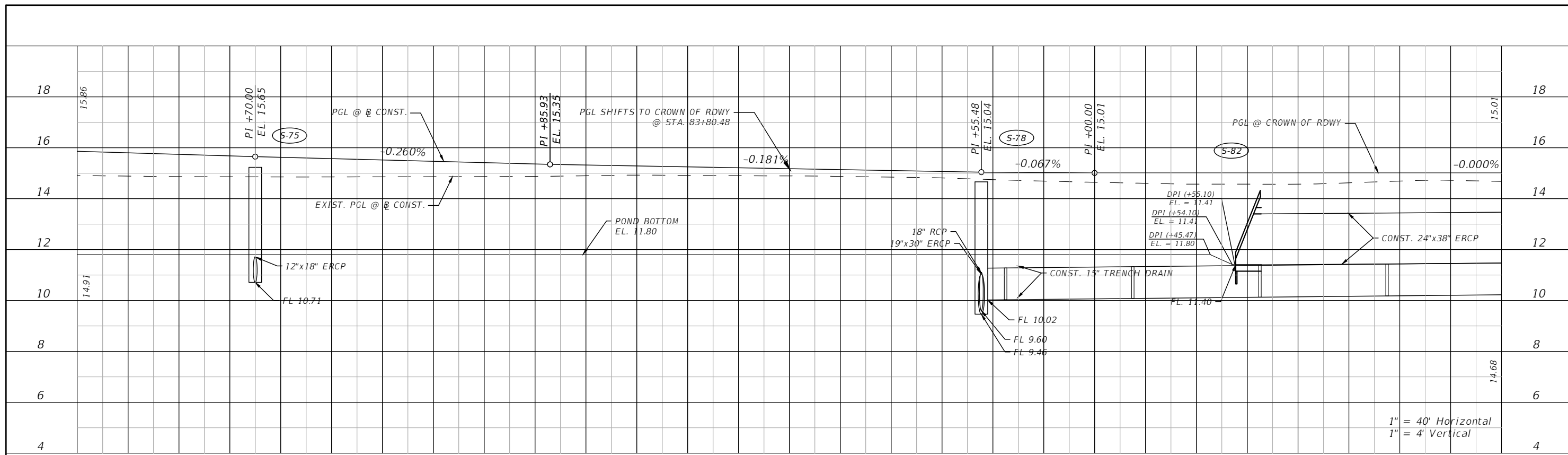


76+00 77+00 78+00 79+00 80+00 81+00

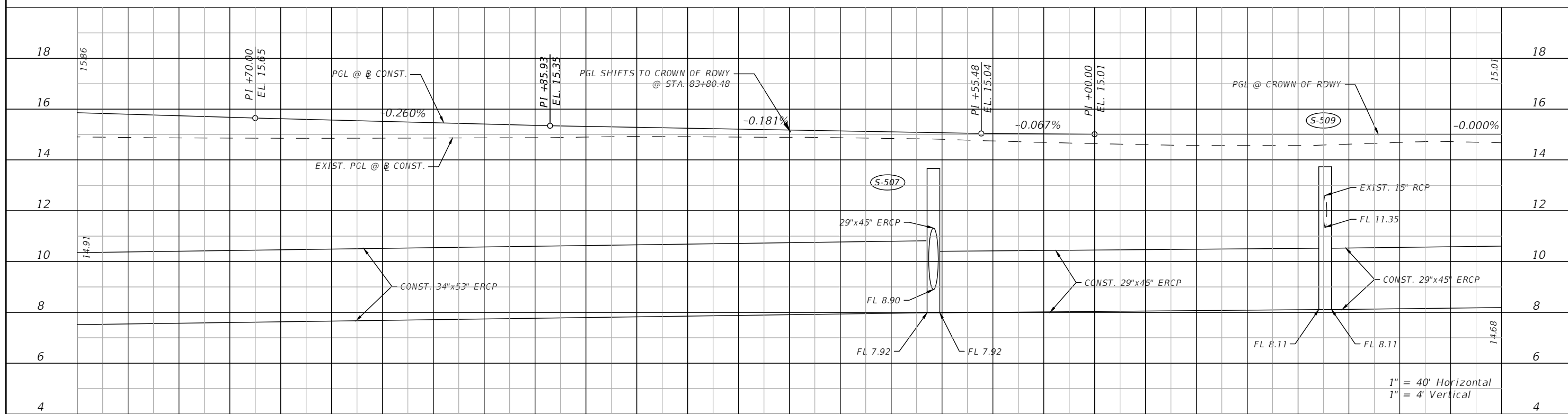
OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY PROFILE LT	SHEET NO. 49
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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



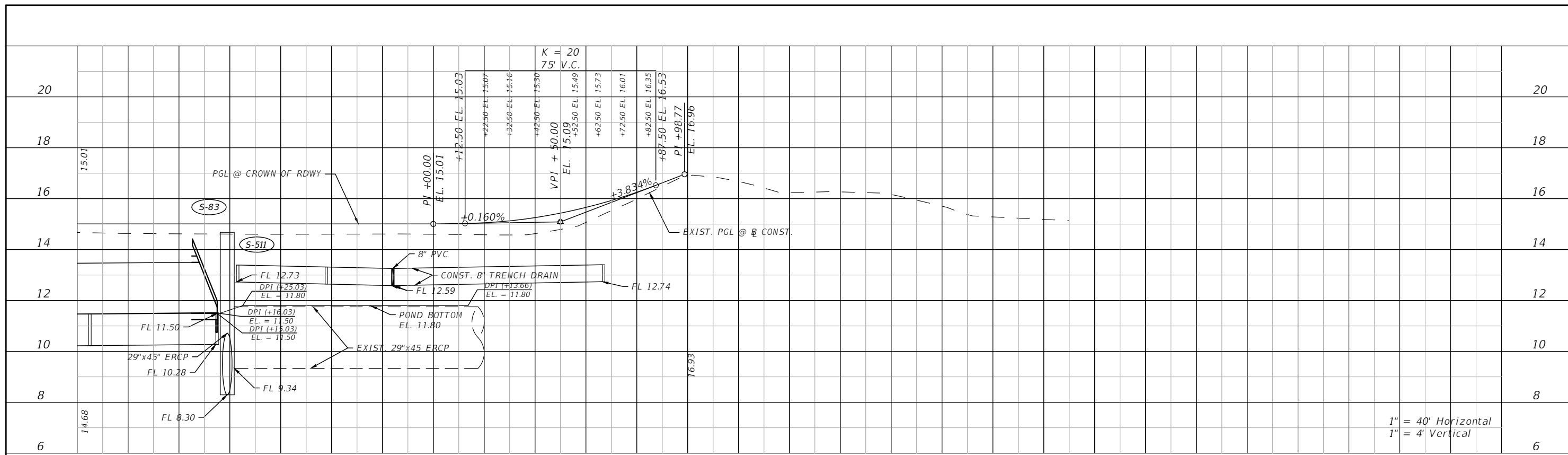
ON-SITE DRAINAGE PROFILE LT



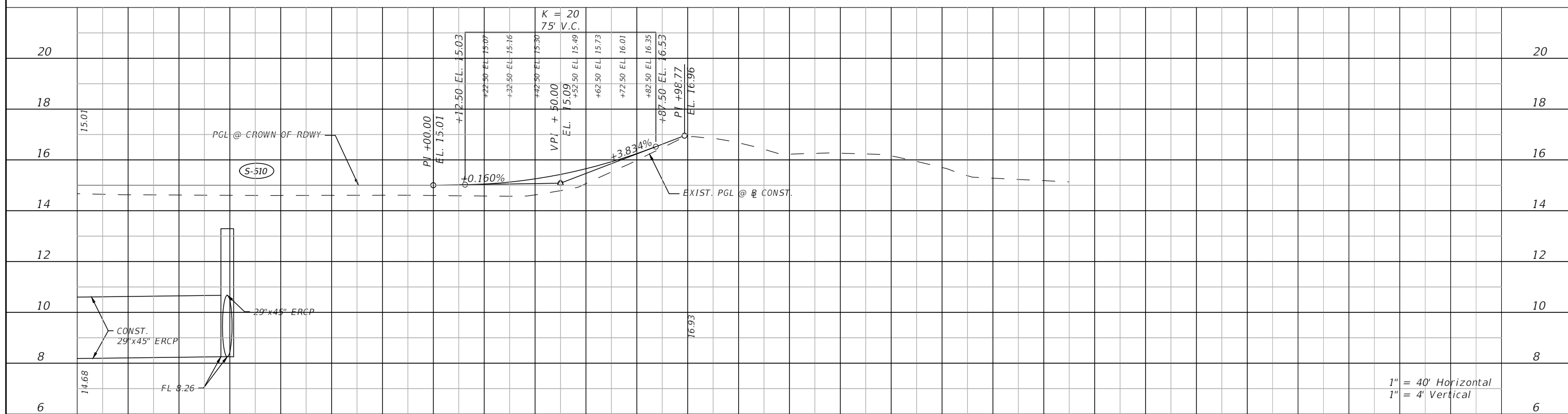
OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 50
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

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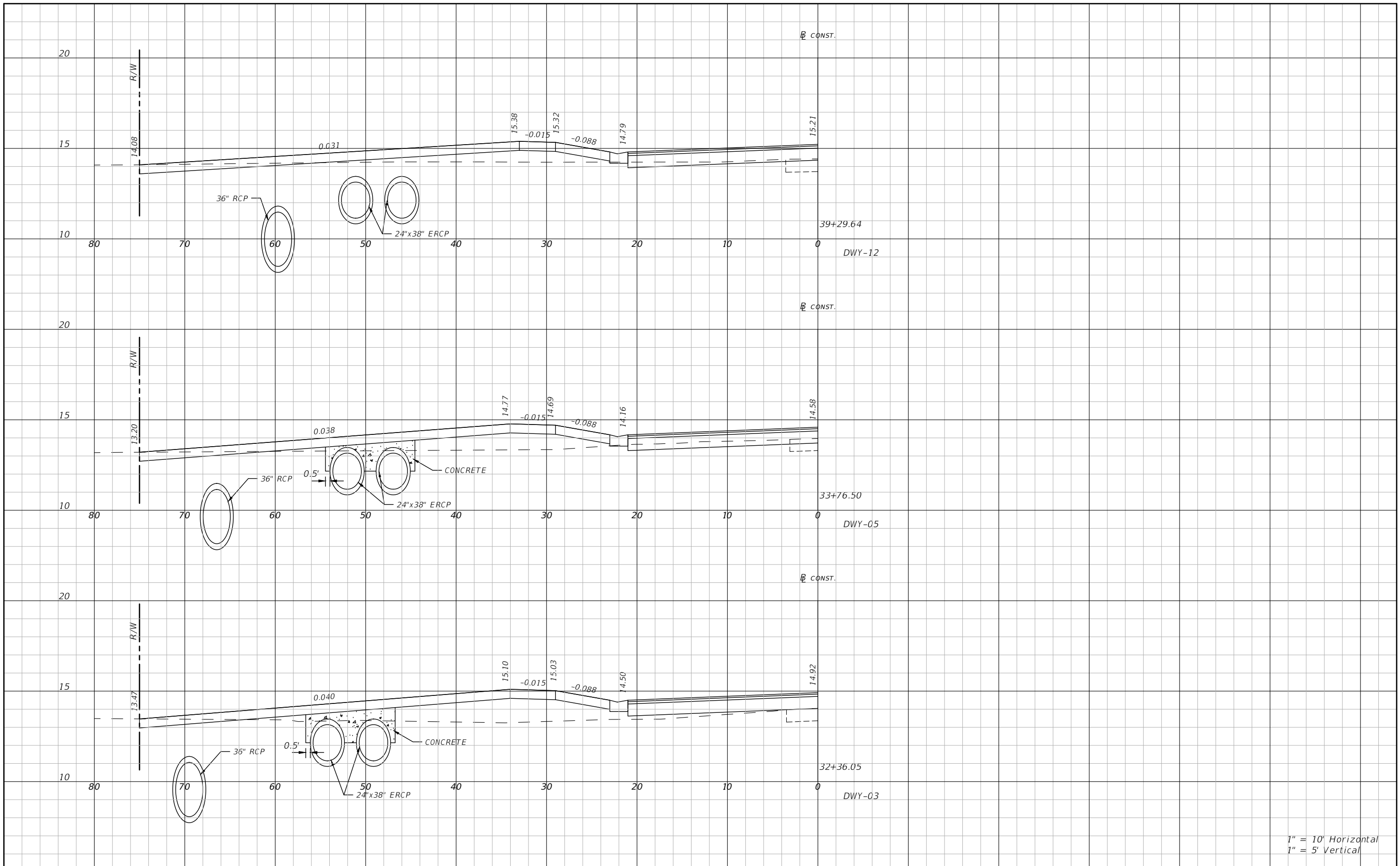
ON-SITE DRAINAGE PROFILE LT



OFF-SITE DRAINAGE PROFILE LT

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 51
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
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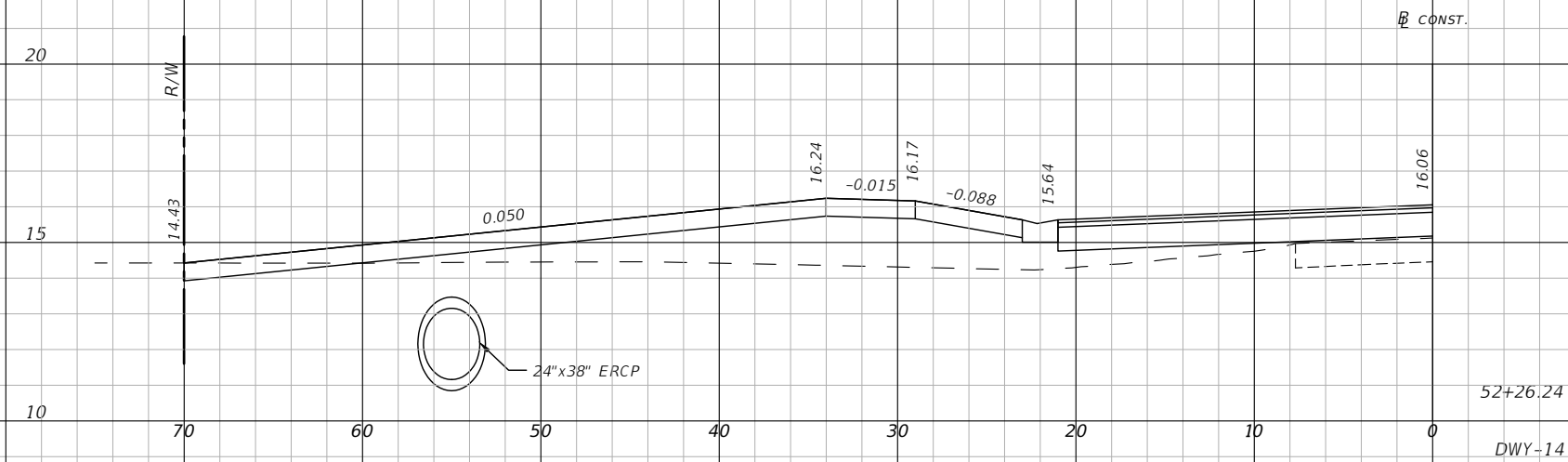
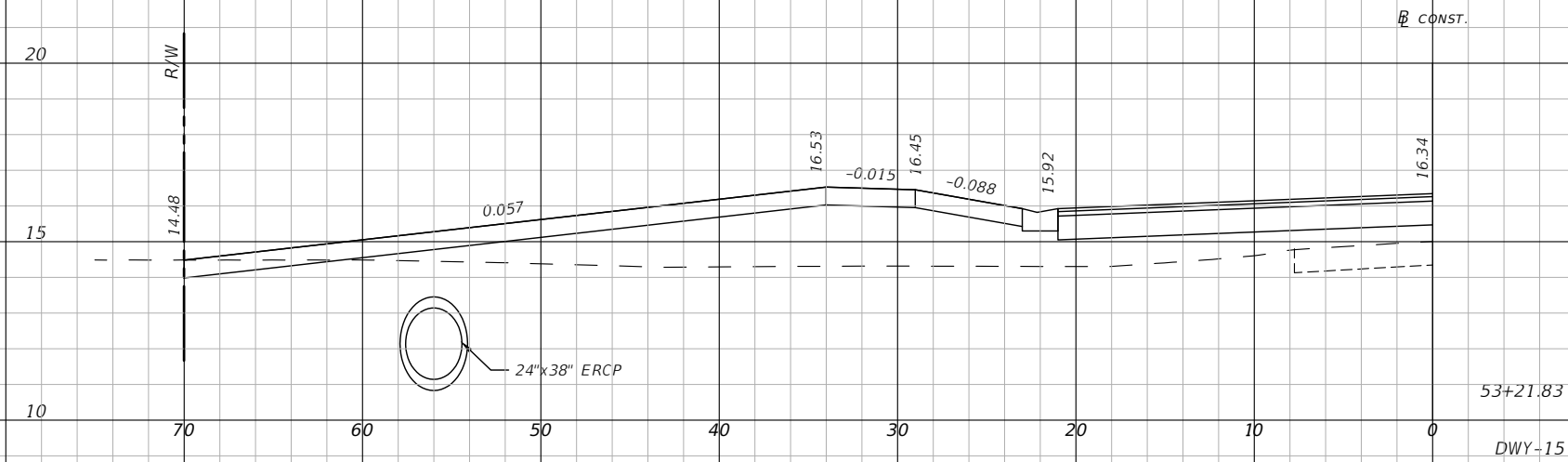
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1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 52
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

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1" = 10' Horizontal
1" = 5' Vertical

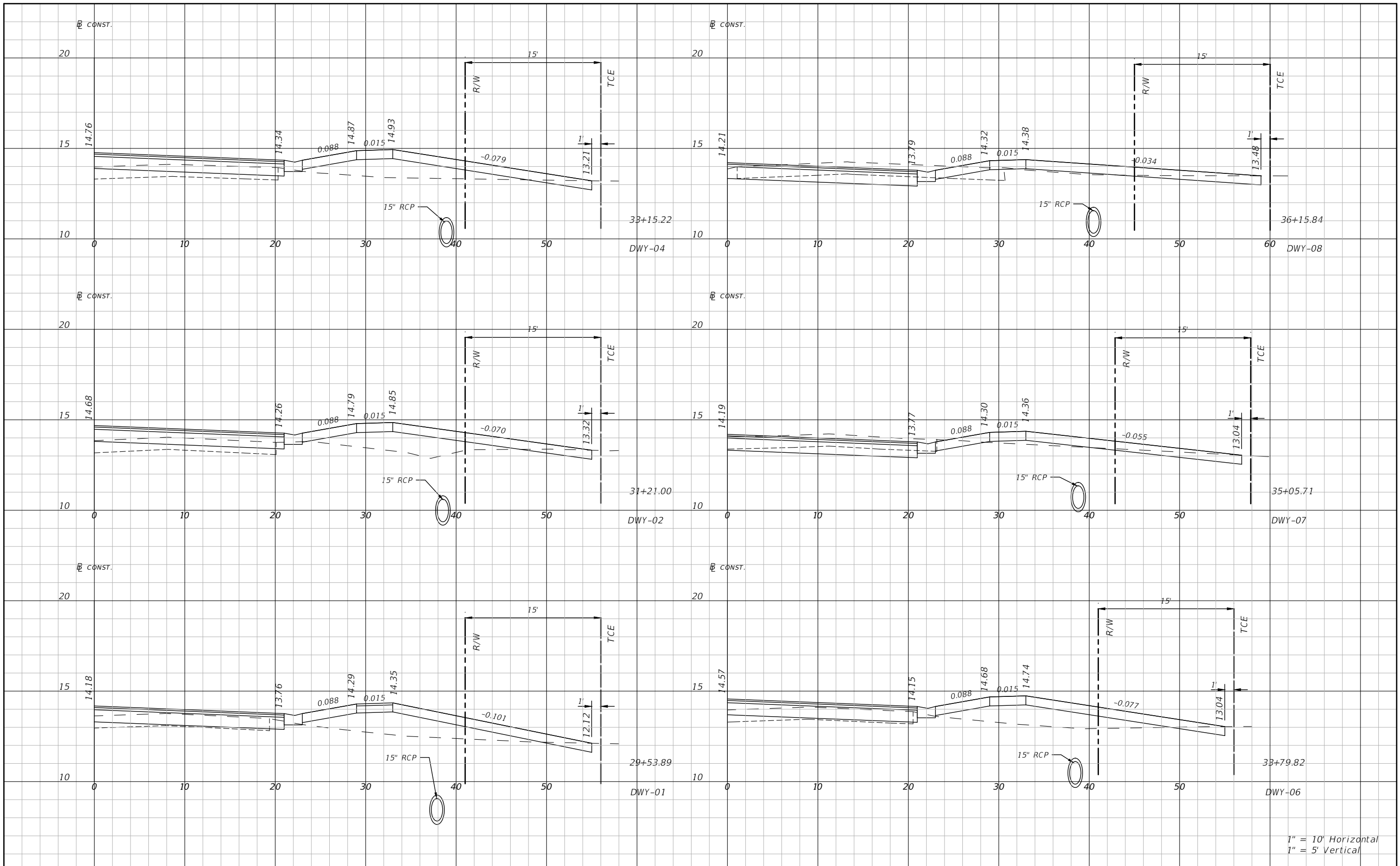
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRIVEWAY PROFILES LT

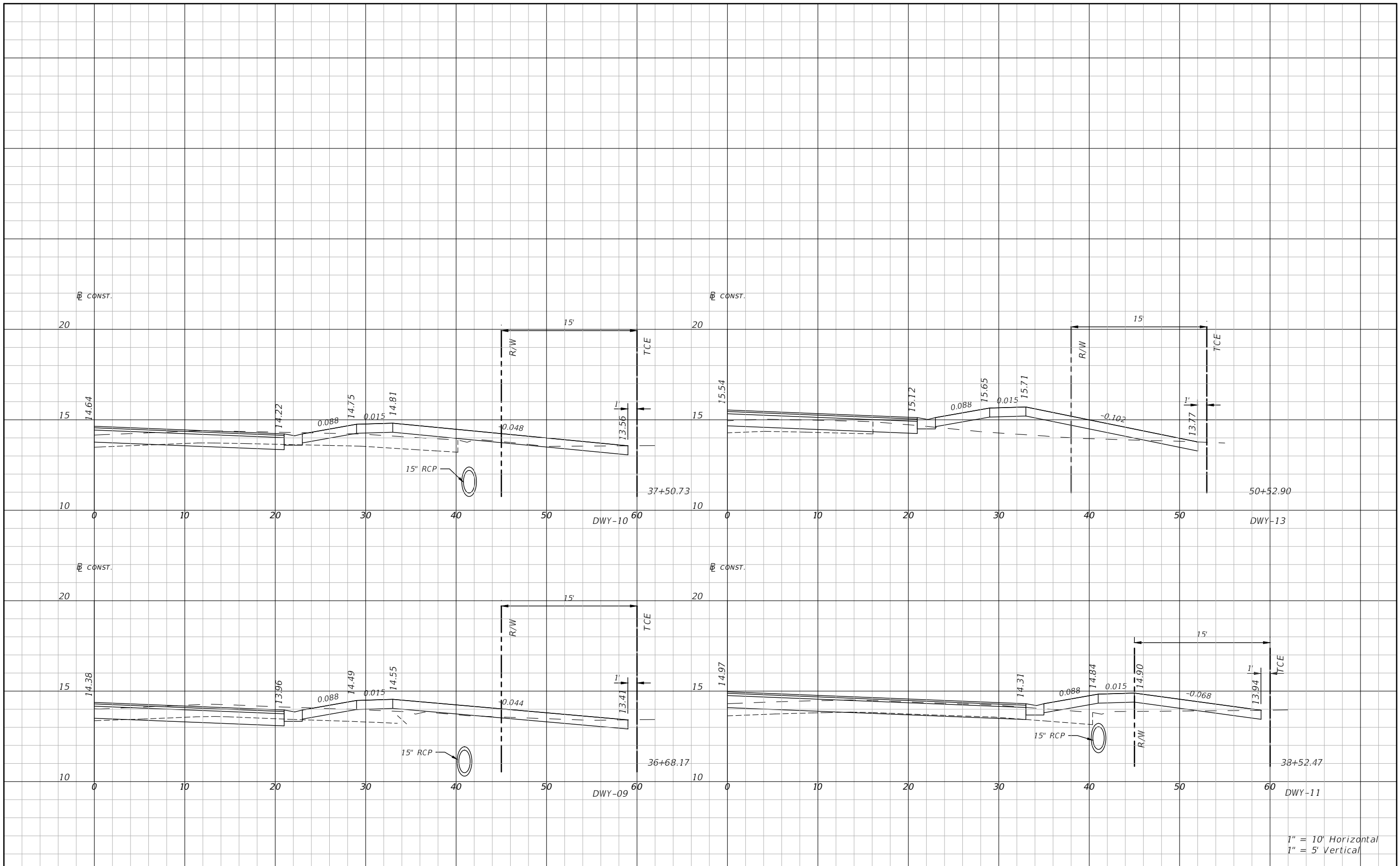
SHEET NO.
53



1" = 10' Horizontal
1" = 5' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 54
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

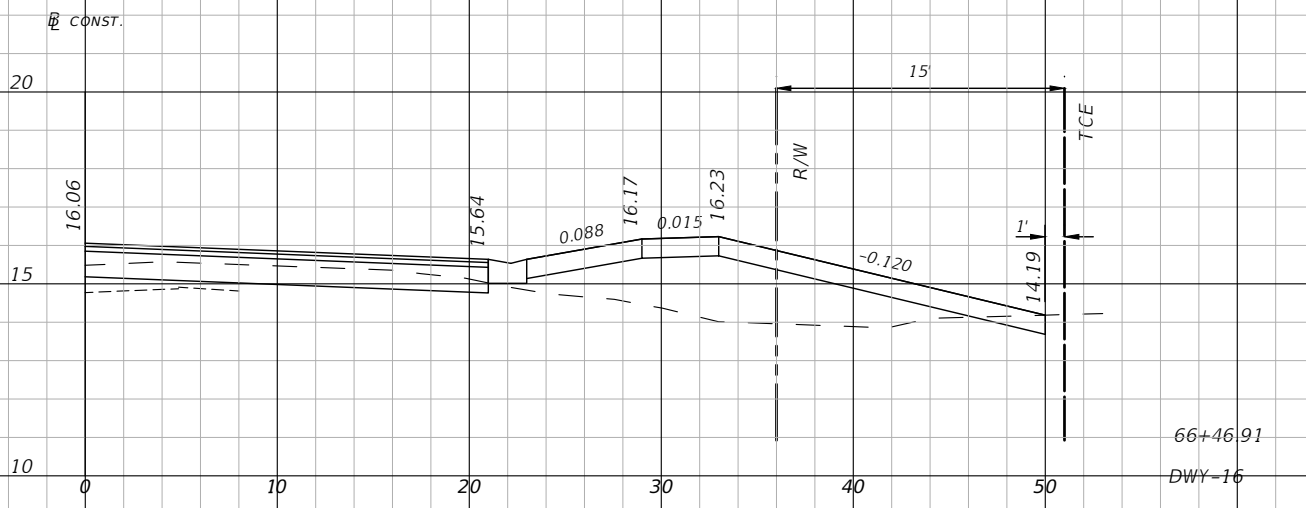
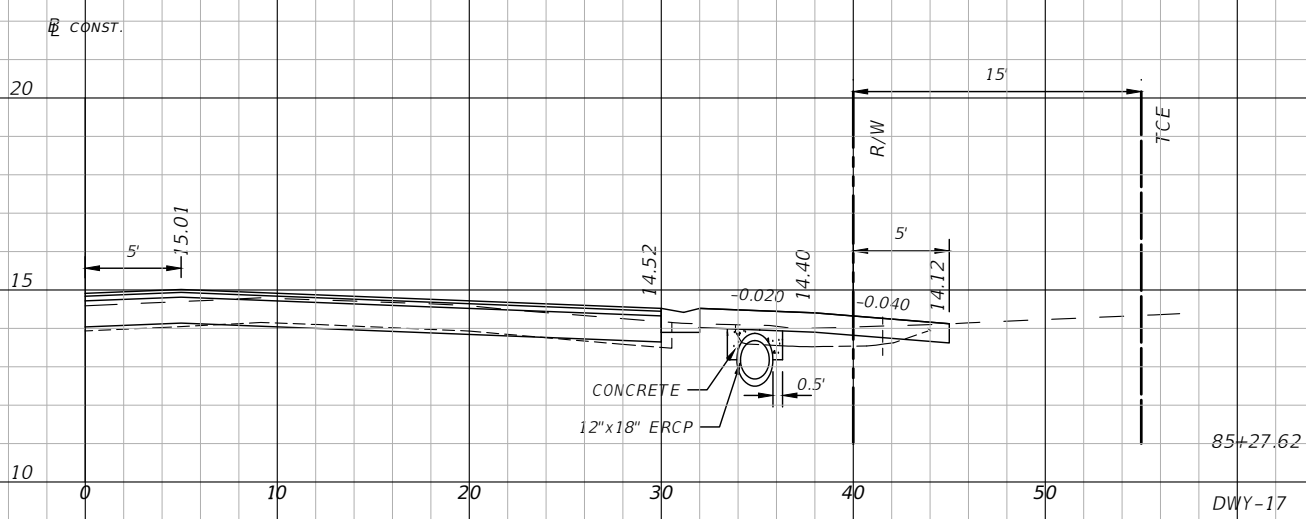
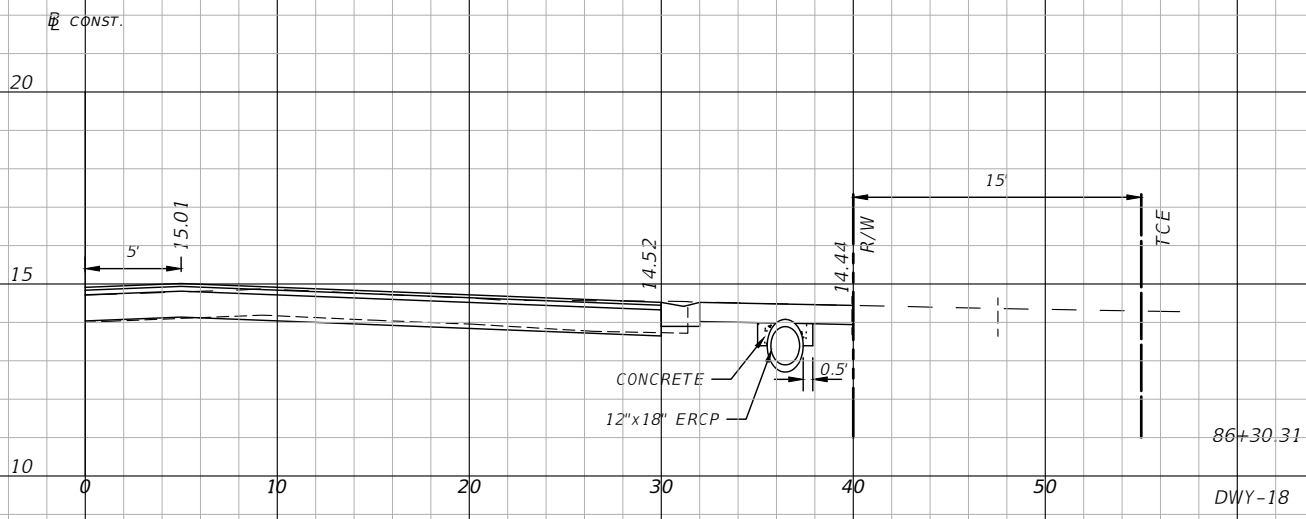
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 55
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

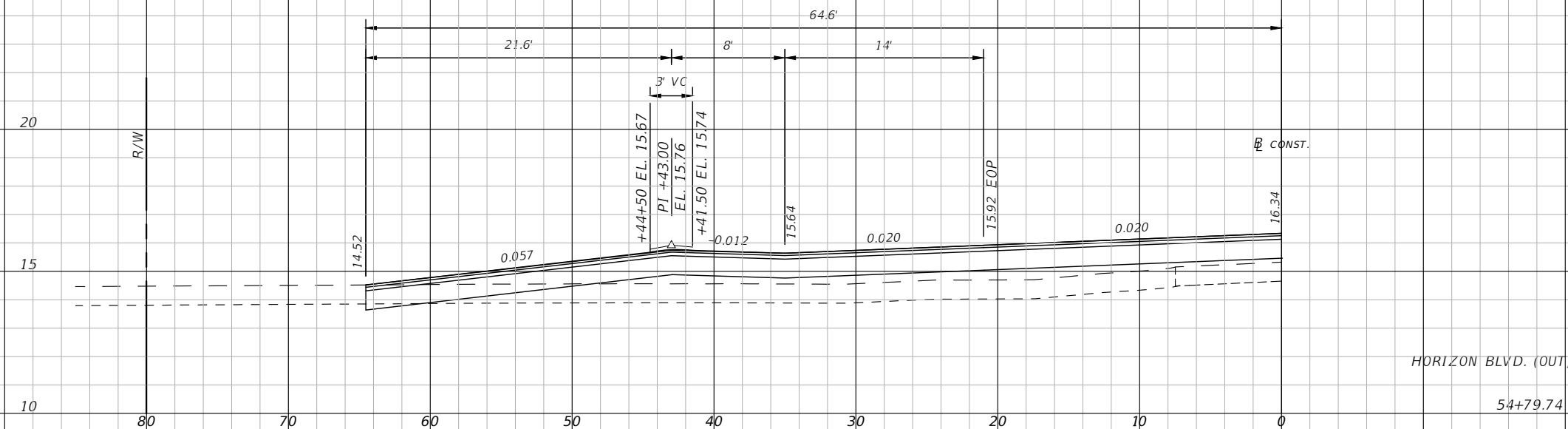
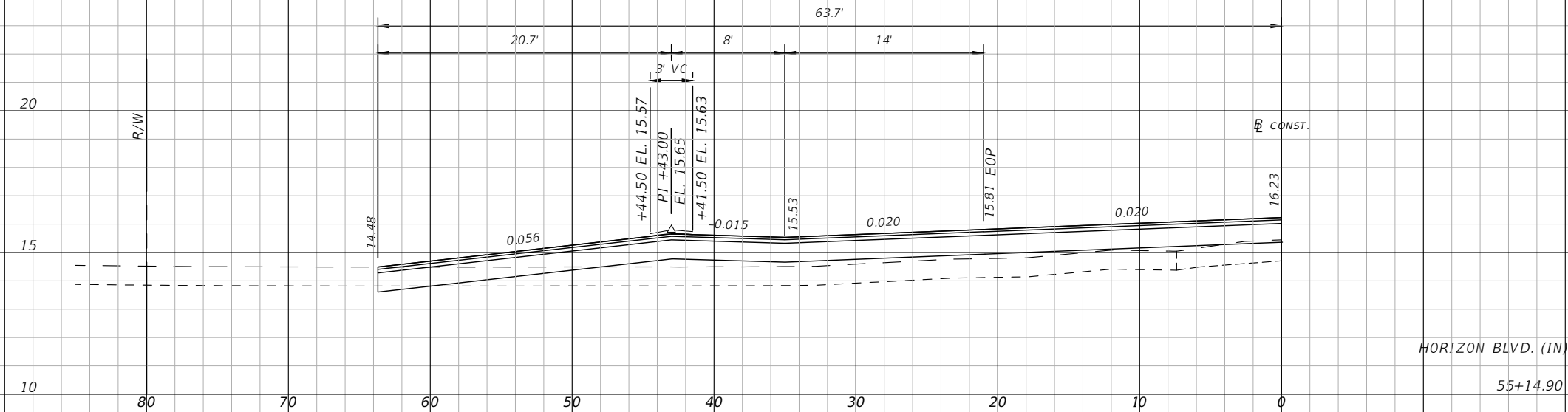
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 10' Horizontal
1" = 5' Vertical

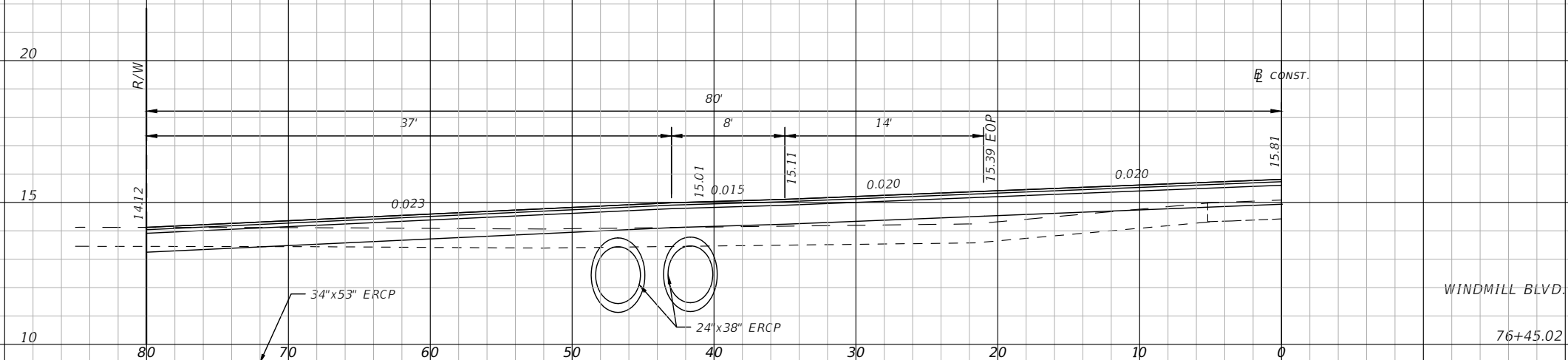
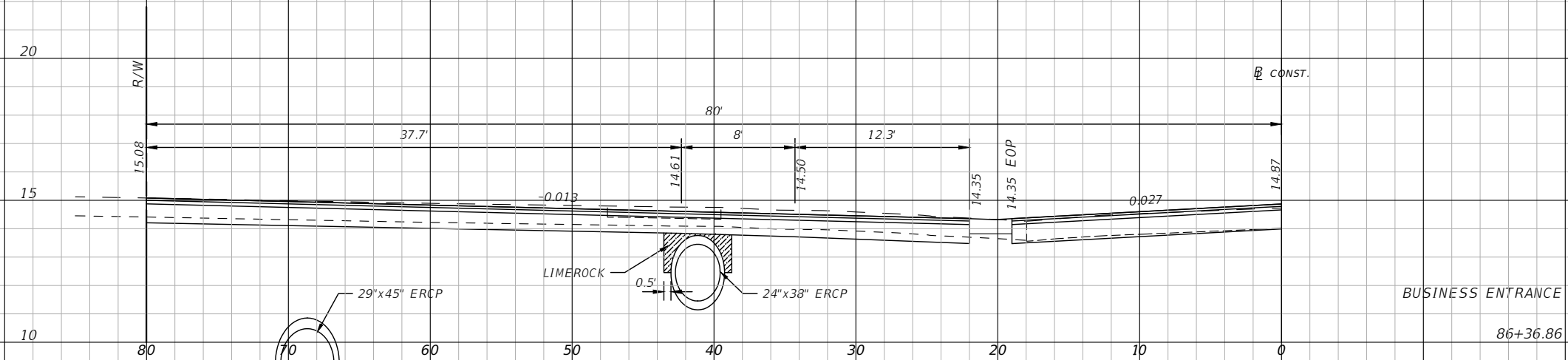
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	56

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1" = 10' Horizontal
1" = 5' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIDE STREET PROFILES LT	SHEET NO. 57
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		



1" = 10' Horizontal
1" = 5' Vertical

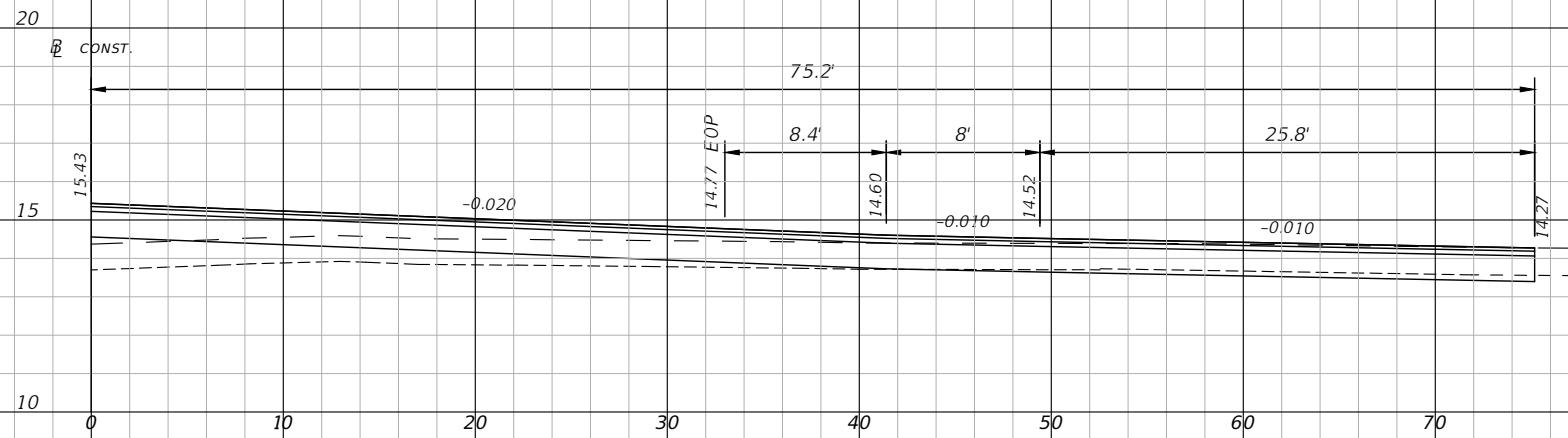
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

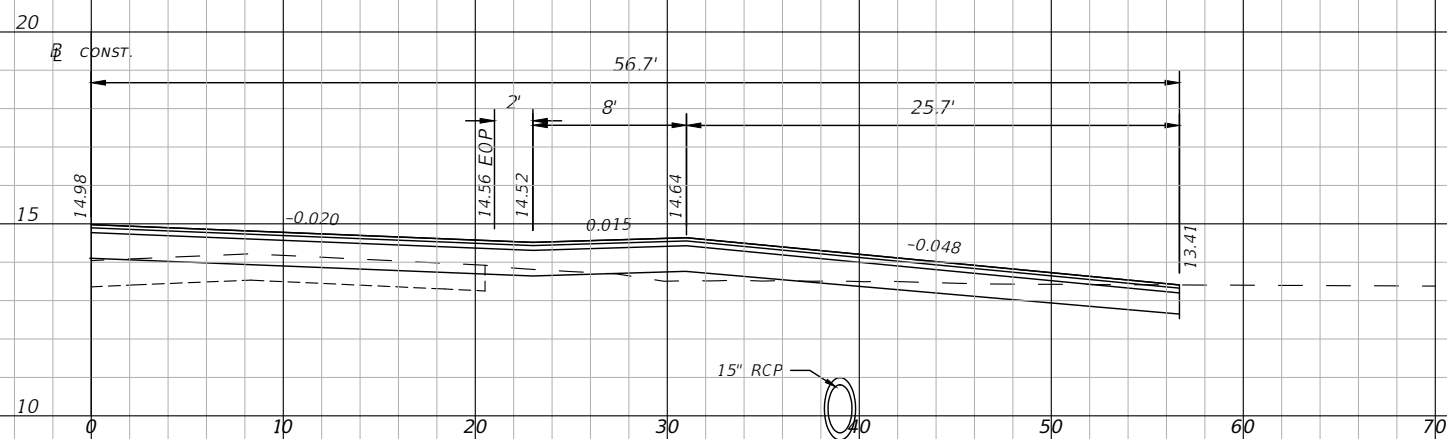
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SIDE STREET PROFILES LT

SHEET NO.
58



HUTTO RD.
39+97.91



JANET DR.
32+20.12

1" = 10' Horizontal
1" = 5' Vertical

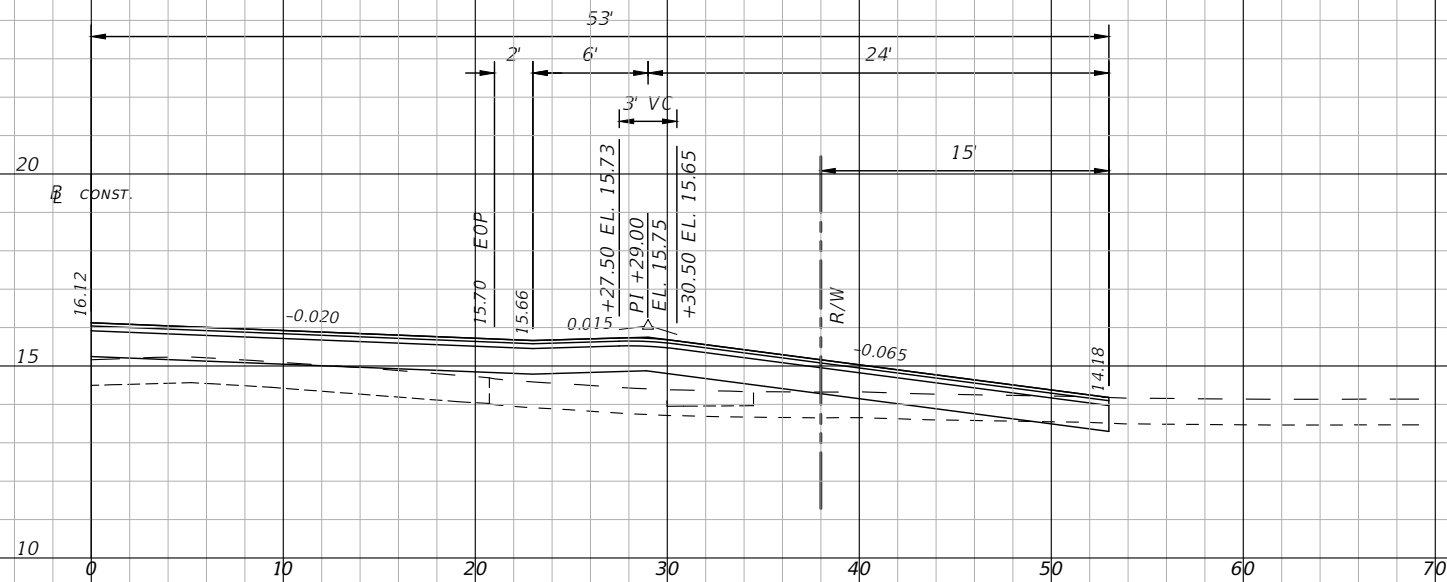
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

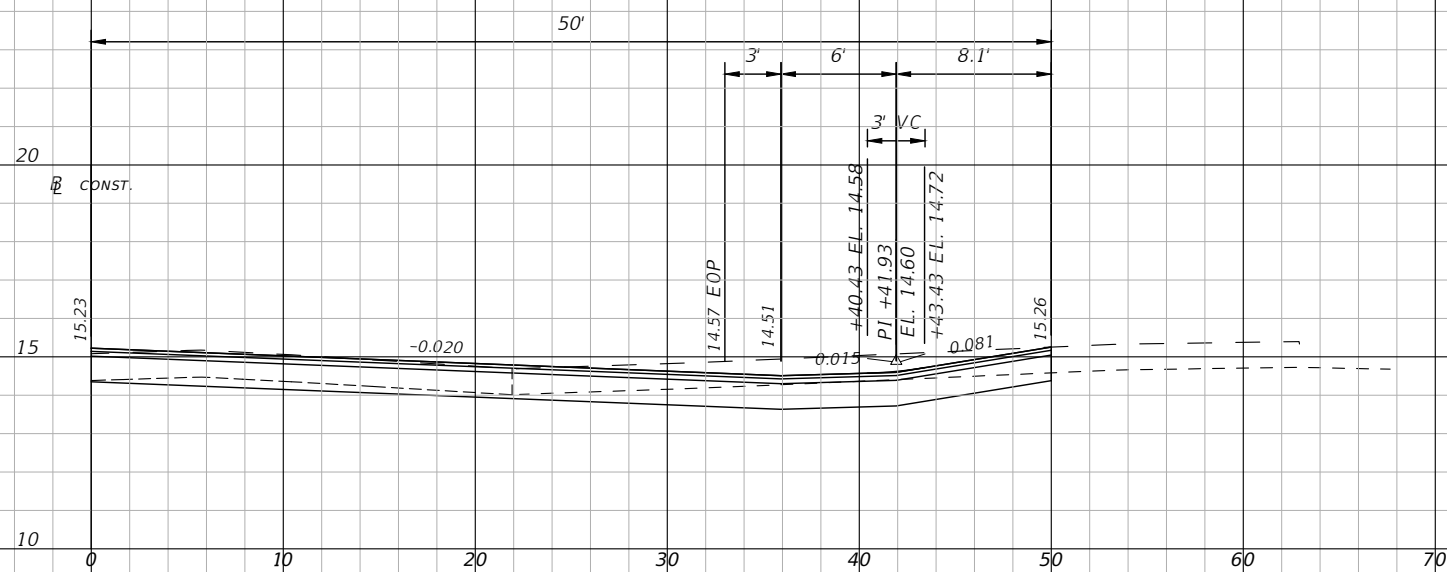
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SIDE STREET PROFILES RT

SHEET NO.
59



NICKLAUS BLVD.
47+72.34



SCHOOL ENTRANCE
44+29.41

1" = 10' Horizontal
1" = 5' Vertical

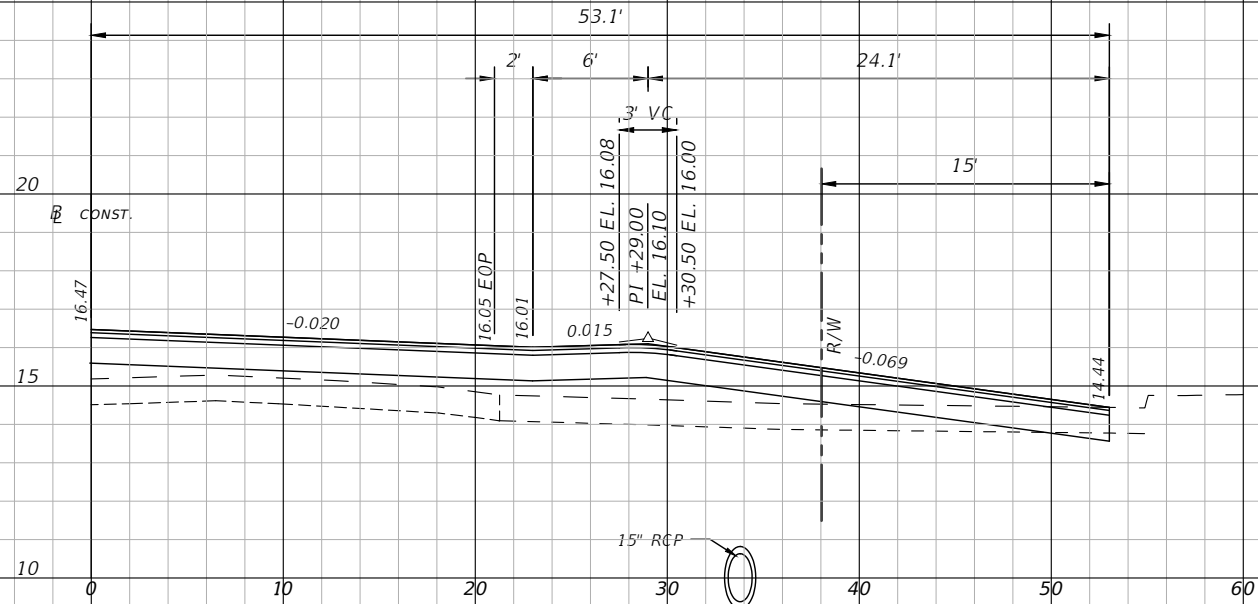
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

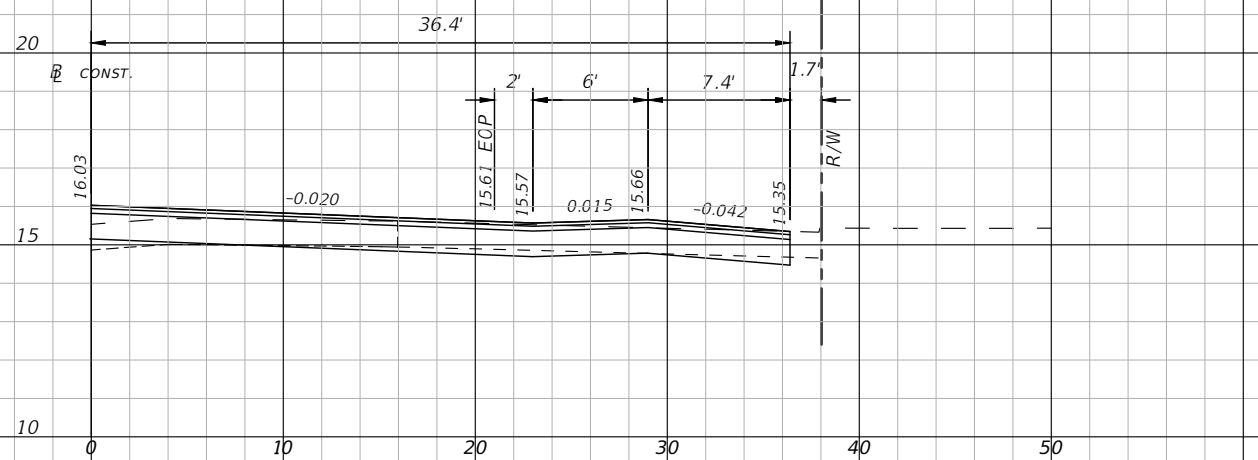
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SIDE STREET PROFILES RT

SHEET NO.
60



SERENDIPITY BLVD.
78+63.41



PALMER BLVD.
58+98.11

1" = 10' Horizontal
1" = 5' Vertical

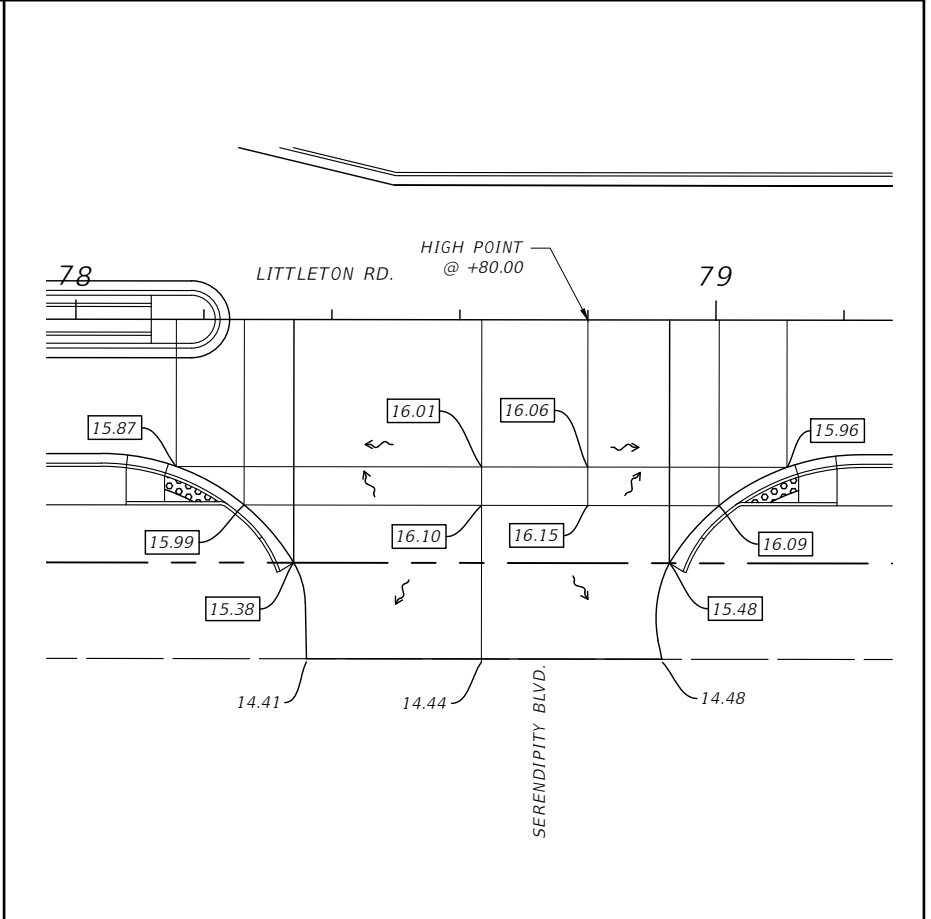
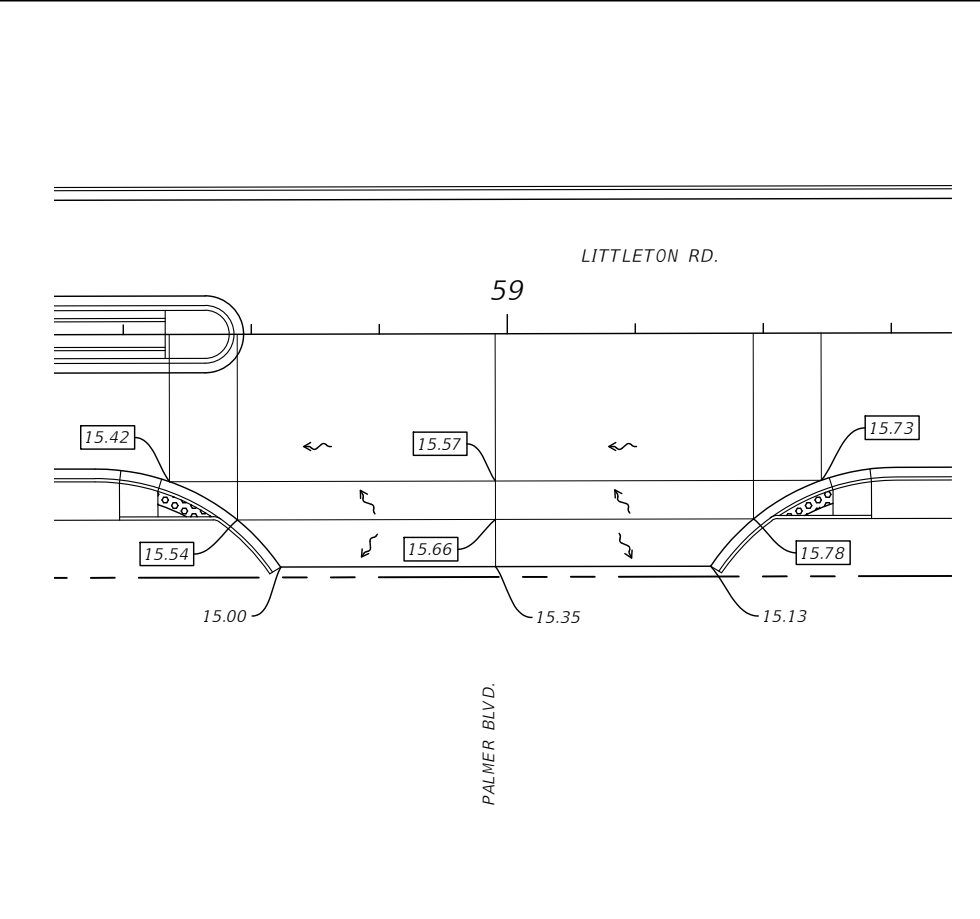
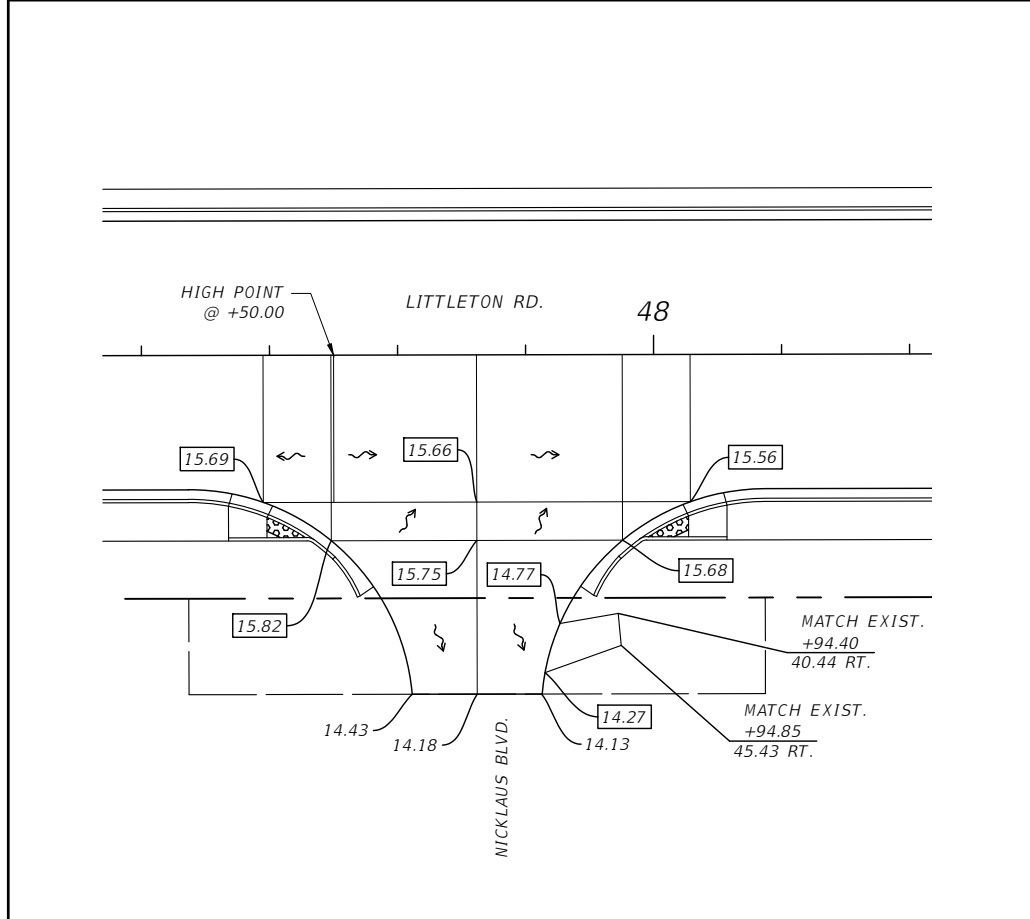
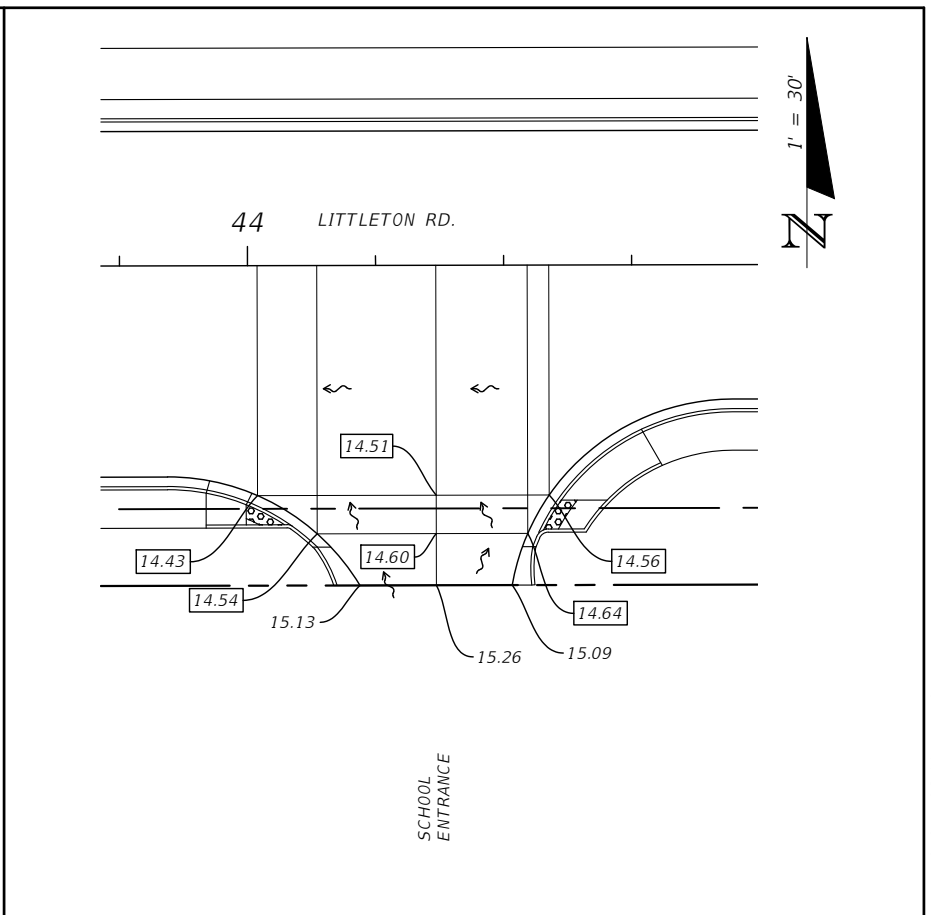
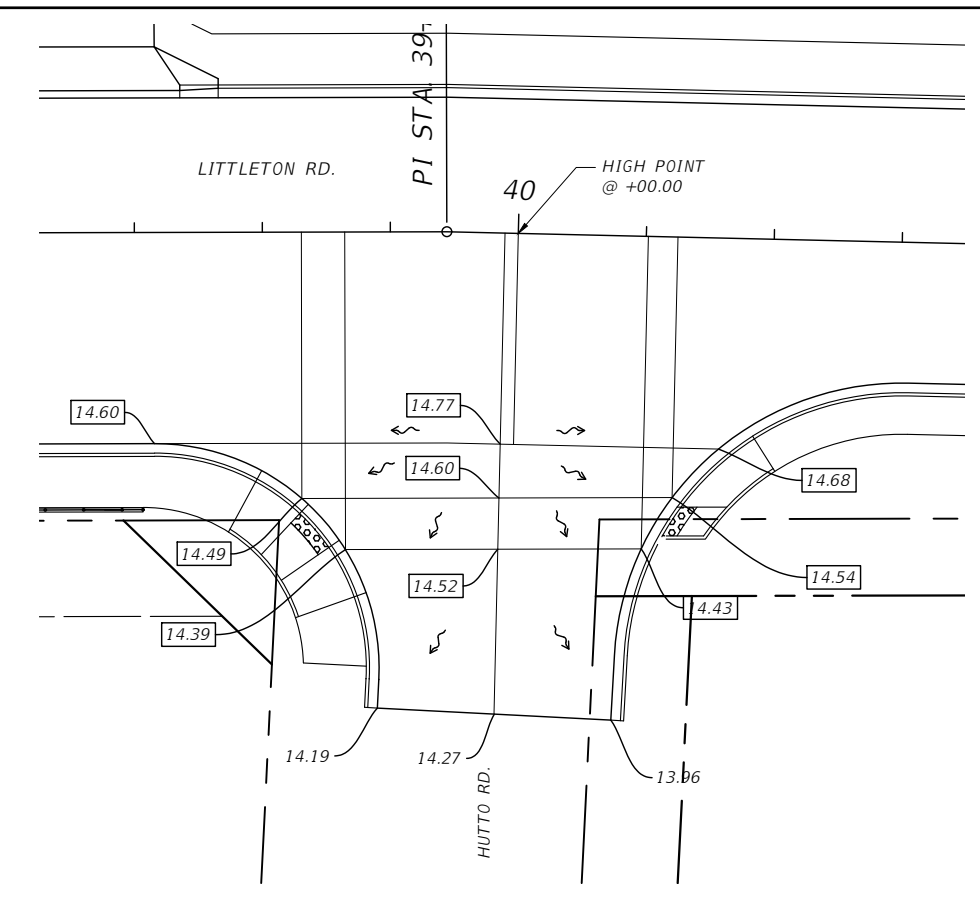
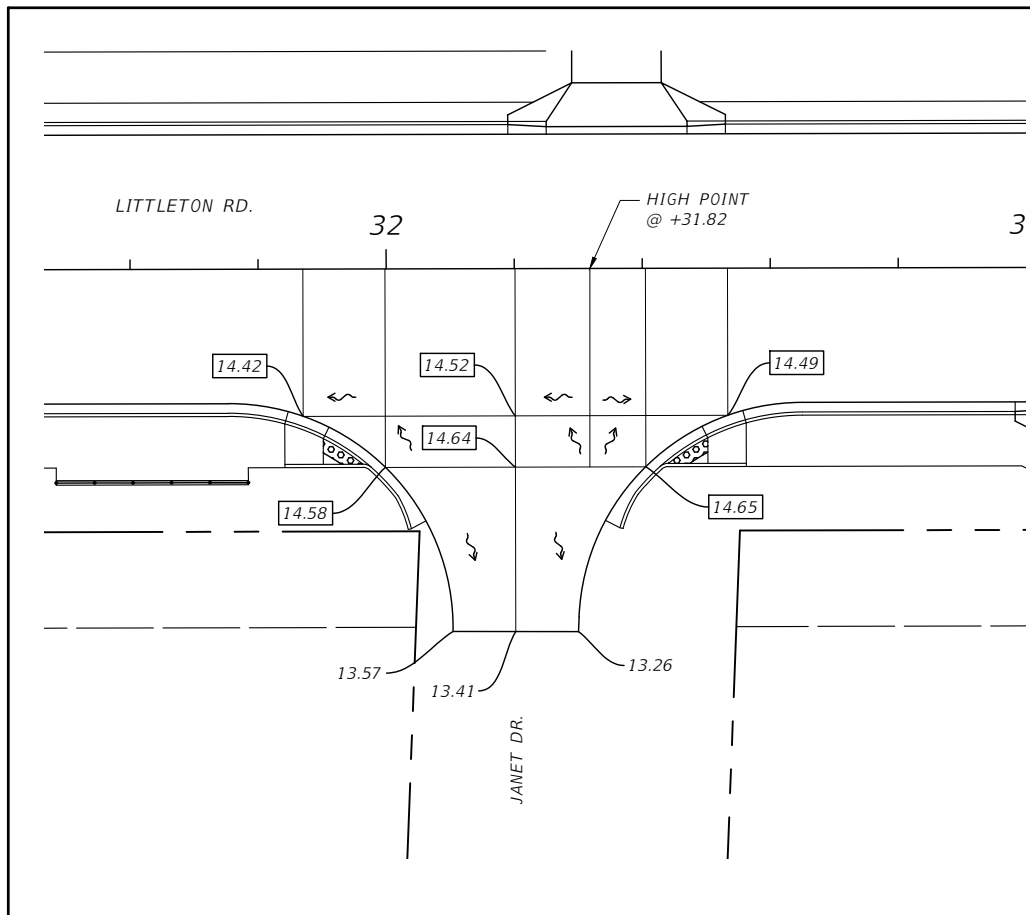
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SIDE STREET PROFILES RT

SHEET NO.
61



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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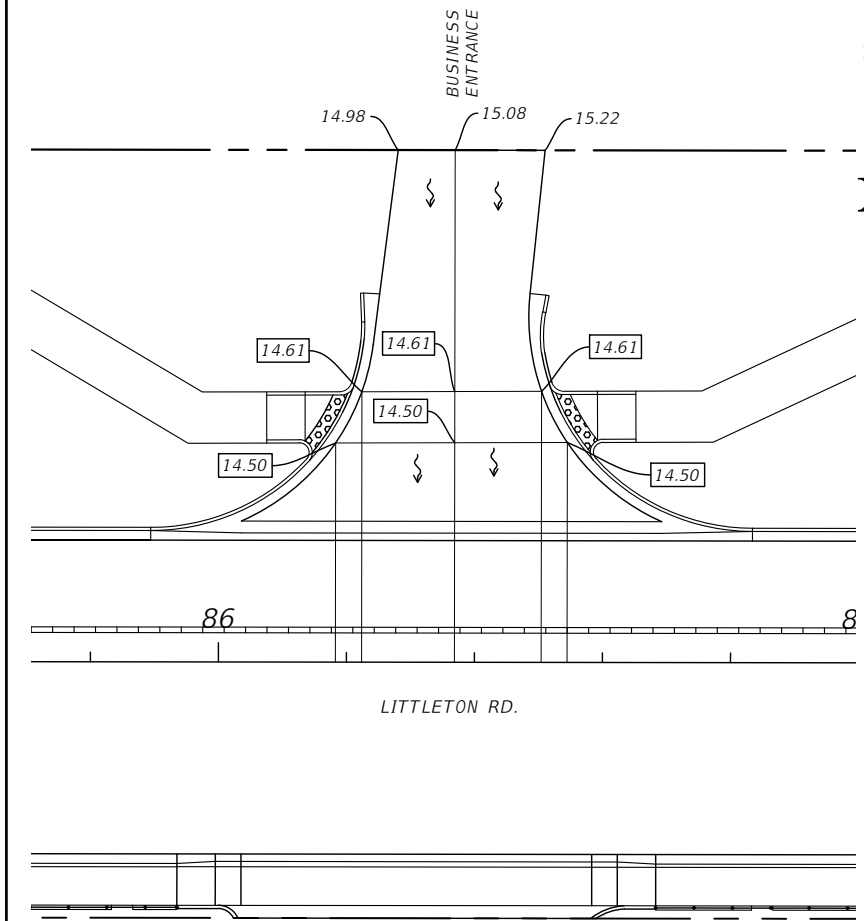
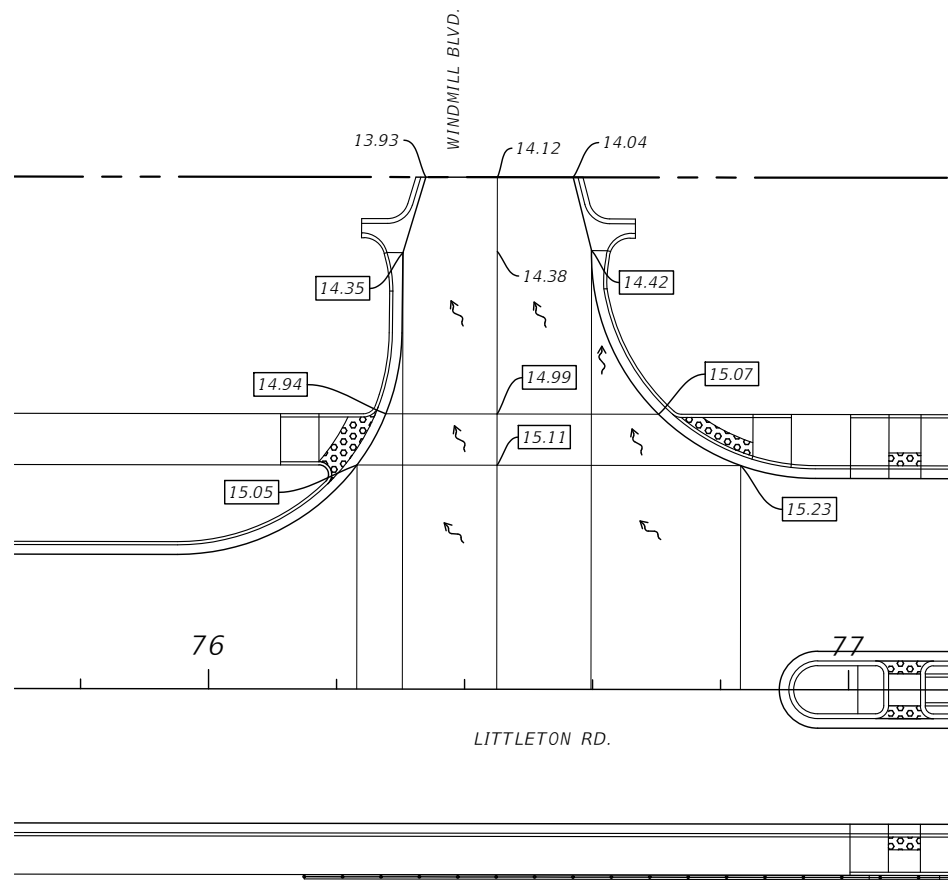
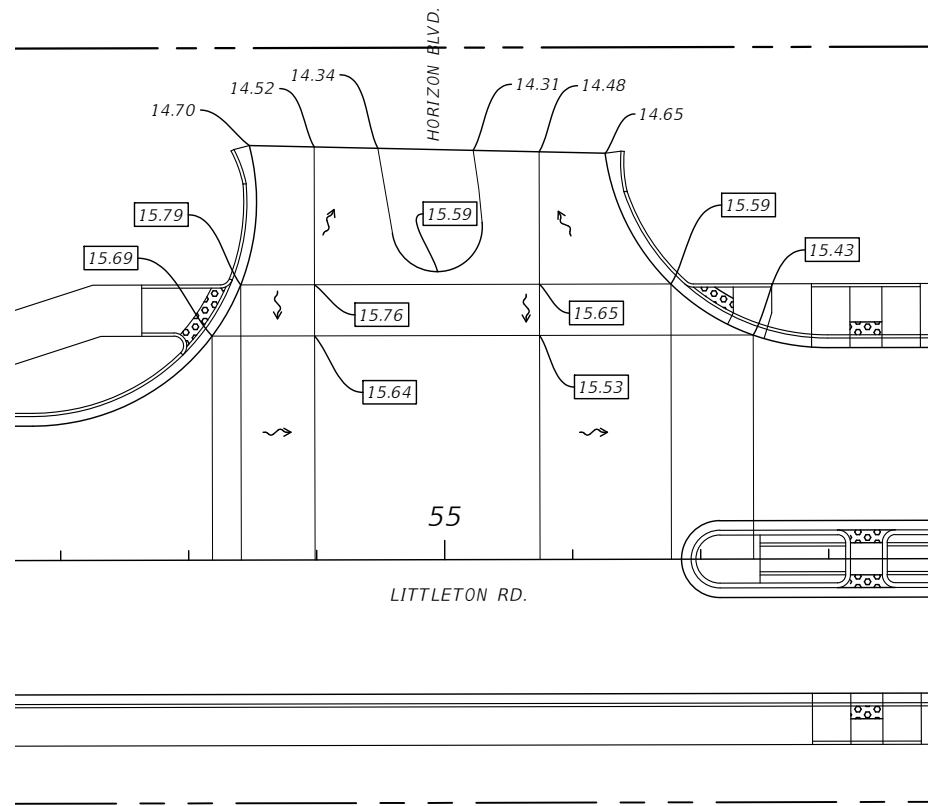
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

**SIDE STREET
GRADING DETAILS**

SHEET NO.
62

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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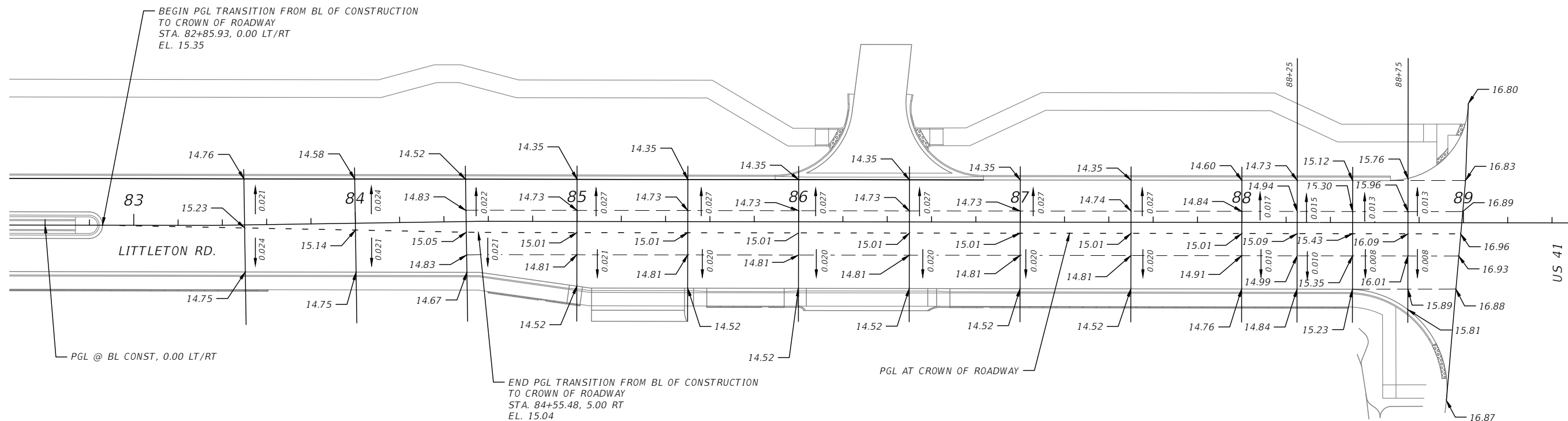
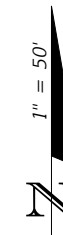
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

**SIDE STREET
 GRADING DETAILS**

SHEET NO.
 63

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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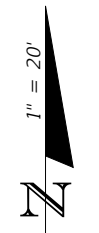
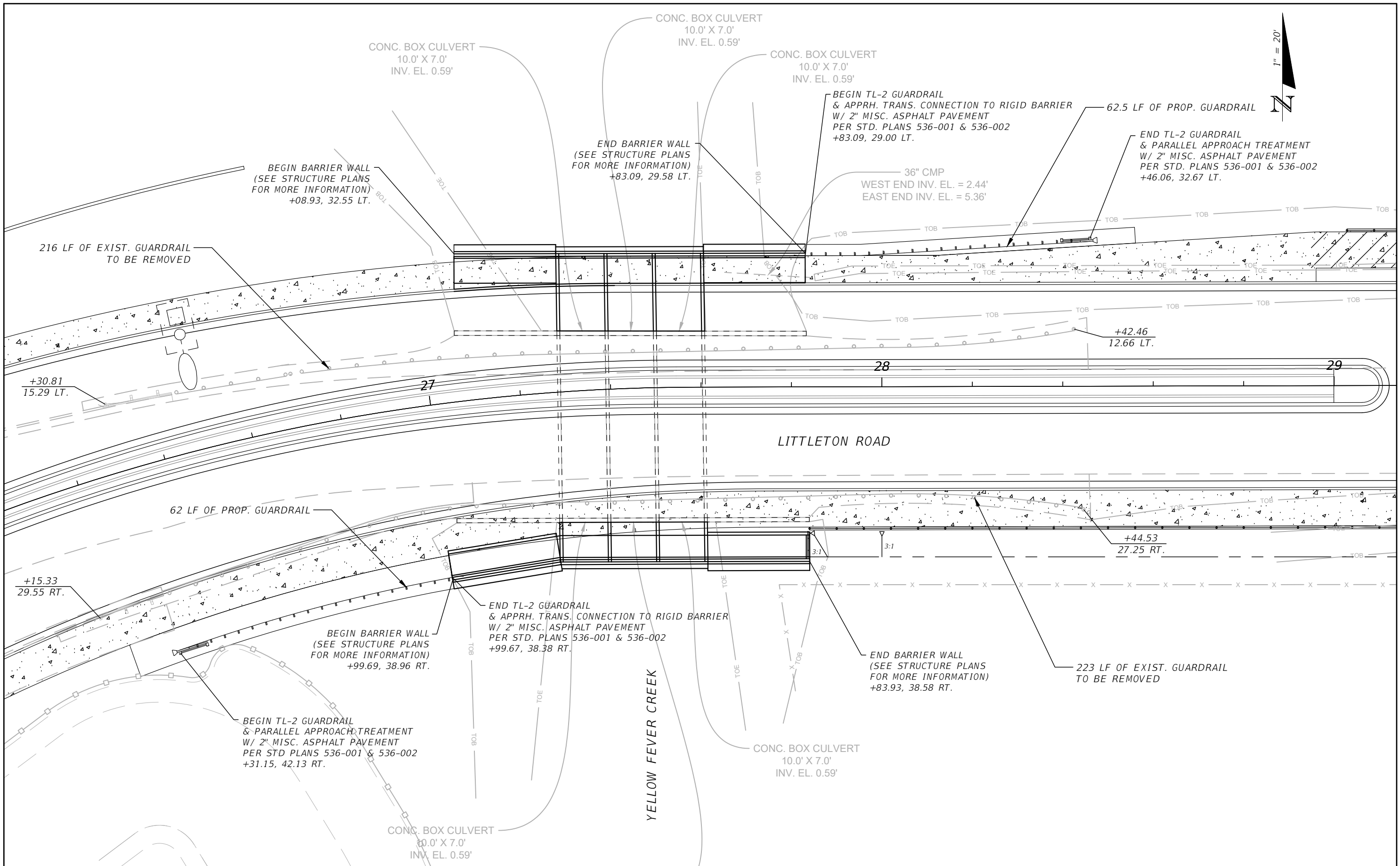
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

GRADING DETAIL

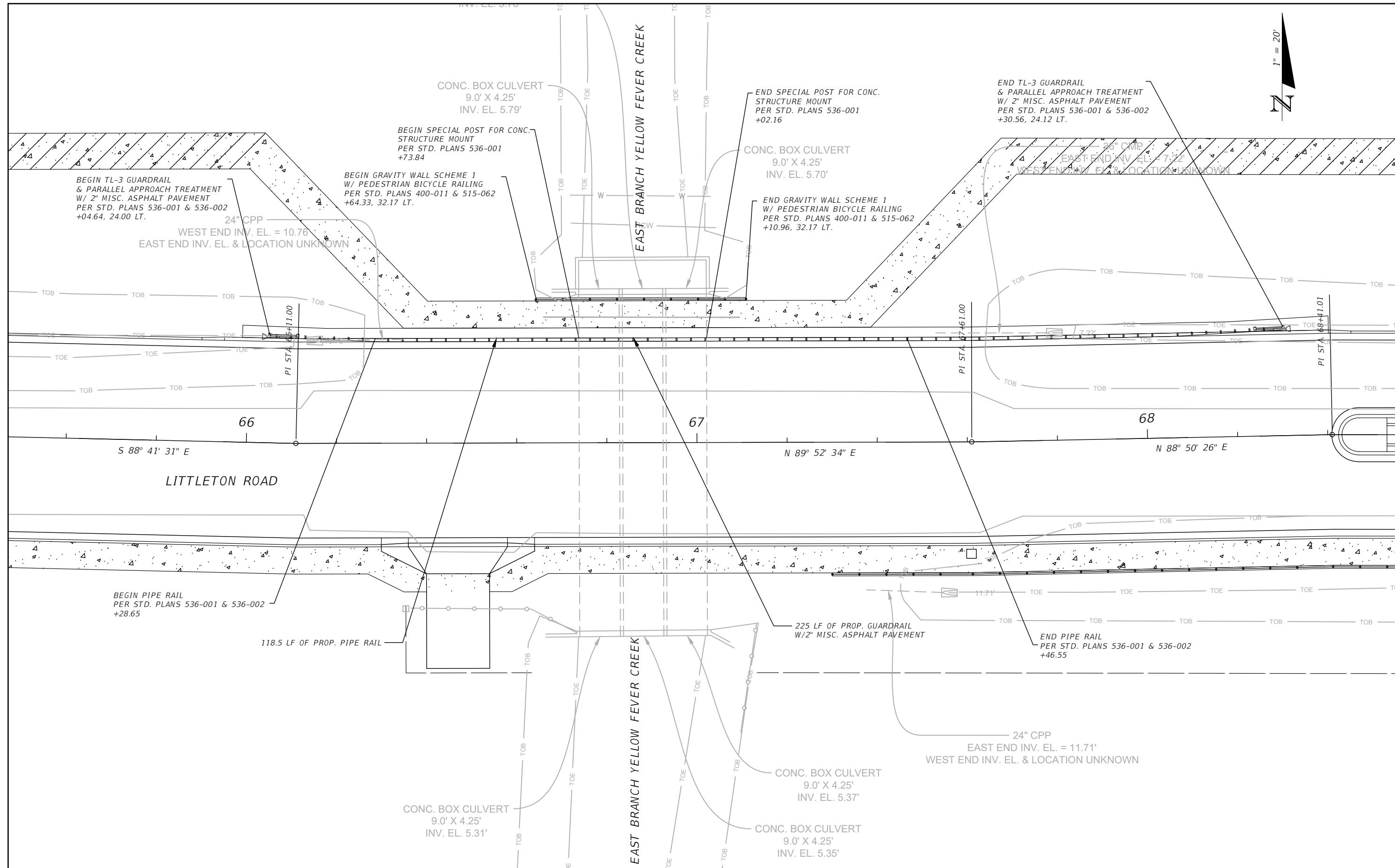
SHEET NO.
64

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REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 65
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG P.E.,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

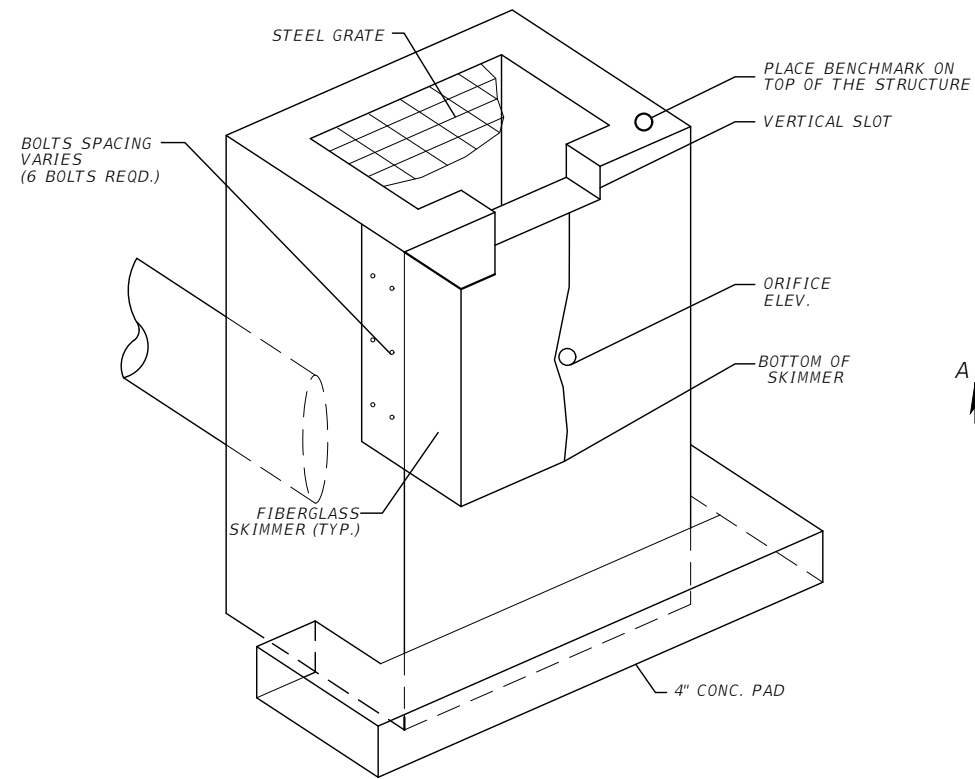
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

**EAST BRANCH YELLOW FEVER
 CREEK DETAIL**

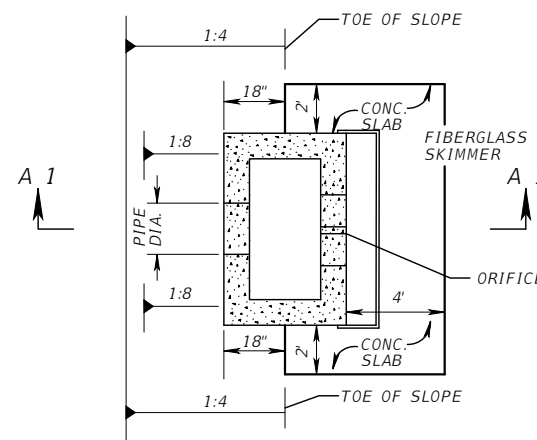
SHEET NO.
66

CONTROL STRUCTURES

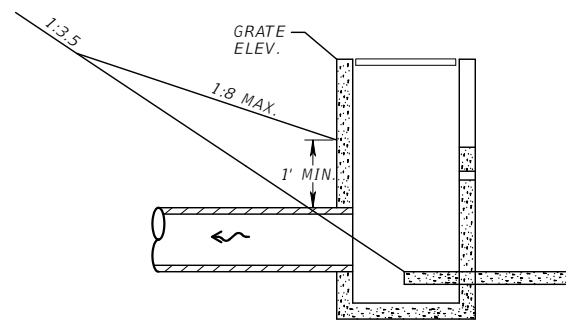
LINEAR POND NO.	CONTROL STRUCTURE		SIDE	STRUCTURE NO.	STRUCTURE TYPE	GRATE ELEV.	WEIR DEPTH (FT)	WEIR WIDTH (FT)	WEIR ELEV.	ORIFICE ELEV.	ORIFICE DIA. (IN)	BOTTOM OF SKIMMER	CONCRETE SLAB ELEV.	FL. ELEV.	PIPE DIA. (IN)
	STATION	OFFSET													
1	29+37.00	51.50	LT	S-9	H	13.61	1.11	9.6	12.5	10.8	3	10.3	9.3	7.31	36
8	64+92.00	47.00	LT	S-58	D	13.55	0.95	3.2	12.6	10.8	3	10.3	9.3	8.55	24
9	67+79.00	47.00	LT	S-61	D	13.59	1.29	4.0	12.3	10.8	3	10.3	9.3	7.46	36



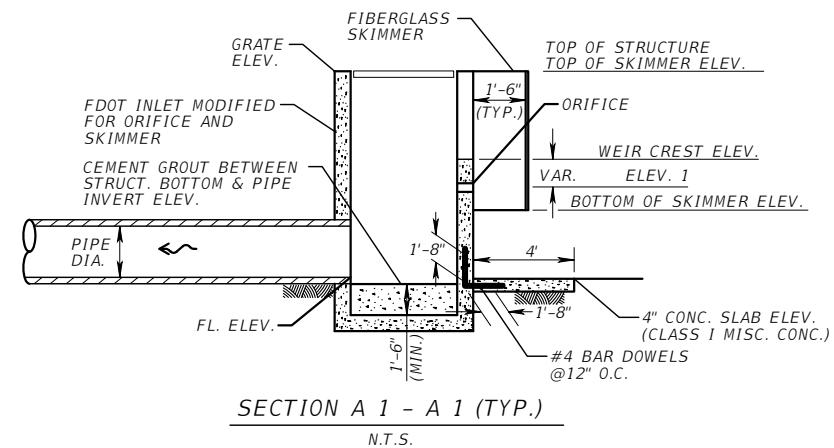
ISOMETRIC VIEW
N.T.S.



PLAN VIEW
N.T.S.



PIPE COVER DETAIL
N.T.S.

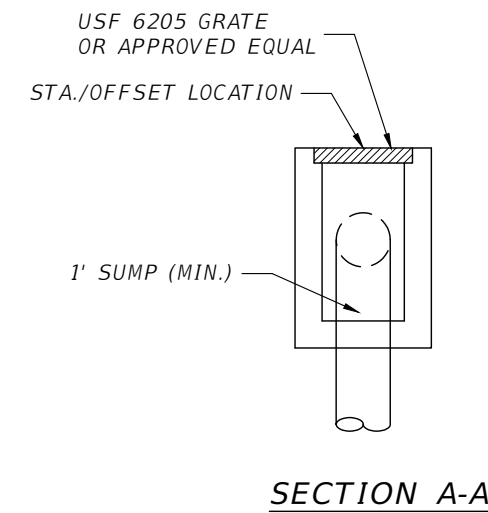
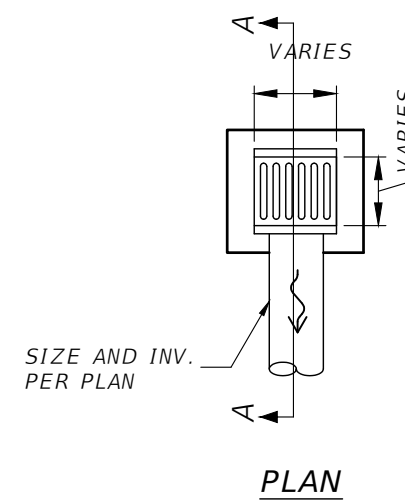


SECTION A 1 - A 1 (TYP.)
N.T.S.

NOTES:

1. COST OF FIBERGLASS SKIMMERS, CEMENT GROUT, APPURTENANCES, DOWELS, STEEL GRATE, CLASS I CONC. (MISC.), WOVEN WIRE FABRIC (W.W.F.) AND WEIRS TO BE INCLUDED IN PRICE OF MODIFIED INLET.
2. ALL MODIFIED INLET STRUCTURES TO HAVE STEEL GRATES.
3. DIMENSIONS SHOWN ARE IN INCHES AND ELEVATION IN FEET.
4. REFER TO INDEX 425-070 FOR SKIMMER DETAILS.
5. BENCHMARK TO BE PLACED AT THE TOP OF THE STRUCTURE.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---				LITTLETON ROAD	LEE	CN190114	CONTROL STRUCTURE DETAILS 67



DBI TYPE X DETAIL*
N.T.S.

* SIZE VARIES TO ACCOMMODATE DIFFERENT PIPE SIZES (12" OR 15")

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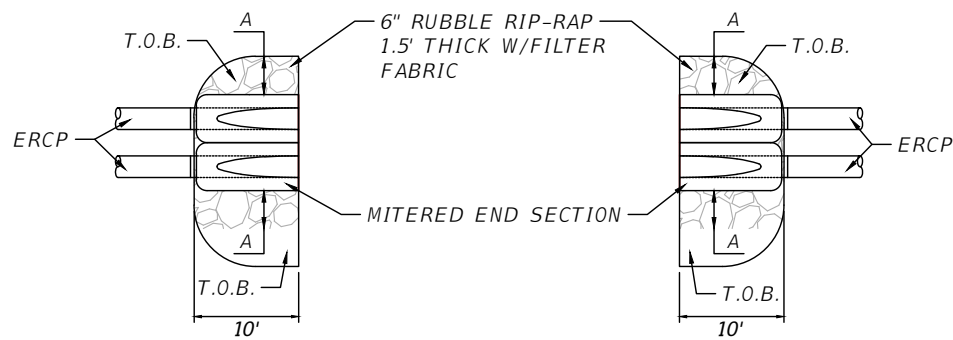
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
----	----				LITTLETON ROAD	LEE	CN190114	68

RUBBLE RIP-RAP							
STATION		STATION	SIDE	STRUCTURE NO.	RIP-RAP LENGTH (FT) (A)	RIP-RAP DEPTH (FT)	WEIGHT (TON)
27+77.87	to	27+91.78	LT	S-8 & S-400	5.0	1.5	11.2
32+06.96	to	32+17.01	LT	S-13	6.5	1.5	10.4
32+55.05	to	32+64.78	LT	S-14	3.7	1.5	5.9
33+47.93	to	33+57.74	LT	S-15	5.3	1.5	8.5
33+95.90	to	34+05.66	LT	S-16	5.3	1.5	8.5
36+41.48	to	36+52.28	LT	S-20	6.5	1.5	10.4
38+97.48	to	39+07.48	LT	S-27	5.2	1.5	8.3
39+66.97	to	39+77.03	LT	S-28	7.9	1.5	12.6
51+99.90	to	52+10.02	LT	S-39	6.6	1.5	10.6
52+37.06	to	52+47.08	LT	S-40	6.9	1.5	11.0
53+01.75	to	53+12.01	LT	S-44	7.1	1.5	11.4
53+41.51	to	53+51.81	LT	S-45	6.8	1.5	10.9
74+85.70	to	74+96.03	LT	S-69	5.7	1.5	9.1
78+51.76	to	78+61.55	LT	S-70	5.4	1.5	8.6
85+55.36	to	85+65.34	LT	S-82	6.5	1.5	10.4
86+04.93	to	86+15.40	LT	S-83	6.7	1.5	10.7

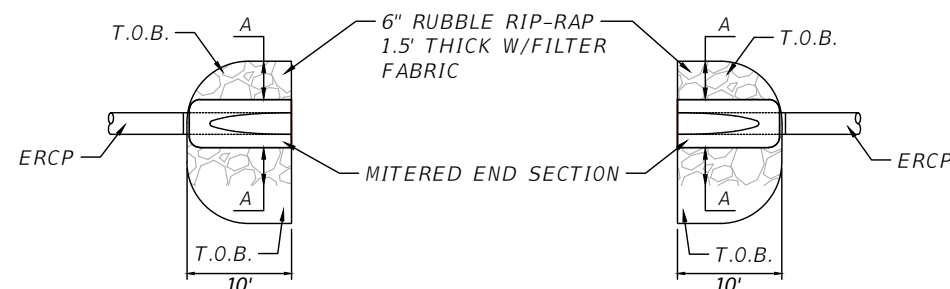
NOTE: STATIONS ARE BEGINNING AND ENDING OF RIP-RAP PLACEMENT, NOT AREA.

57 STONE							
STATION		STATION	SIDE	57 STONE AVERAGE LENGTH (FT)	57 STONE AVERAGE WIDTH (FT)	57 STONE DEPTH (FT)	WEIGHT (TON)
29+24.26	to	29+32.99	LT	34.3	8.7	1.0	22.0
32+64.76	to	33+02.38	LT	26.7	37.6	1.0	74.1
35+79.31	to	36+13.93	LT	18.4	35.7	1.0	48.5
37+44.16	to	37+52.50	LT	29.4	8.4	1.0	18.2
37+87.41	to	38+17.74	LT	18.5	30.3	1.0	41.4
41+25.54	to	41+65.44	LT	27.7	39.5	1.0	80.8
45+46.86	to	45+86.31	LT	27.3	39.5	1.0	79.6
49+66.86	to	50+06.25	LT	26.8	39.5	1.0	78.2
53+86.23	to	54+00.50	LT	26.5	14.3	1.0	28.0
58+08.29	to	58+46.60	LT	16.2	38.3	1.0	45.8
62+27.62	to	62+65.90	LT	16.2	38.3	1.0	45.8
70+67.11	to	71+05.96	LT	17.4	38.9	1.0	50.0
79+46.89	to	79+86.11	LT	18.1	39.2	1.0	52.4
84+22.84	to	84+61.19	LT	17.6	37.5	1.0	48.7

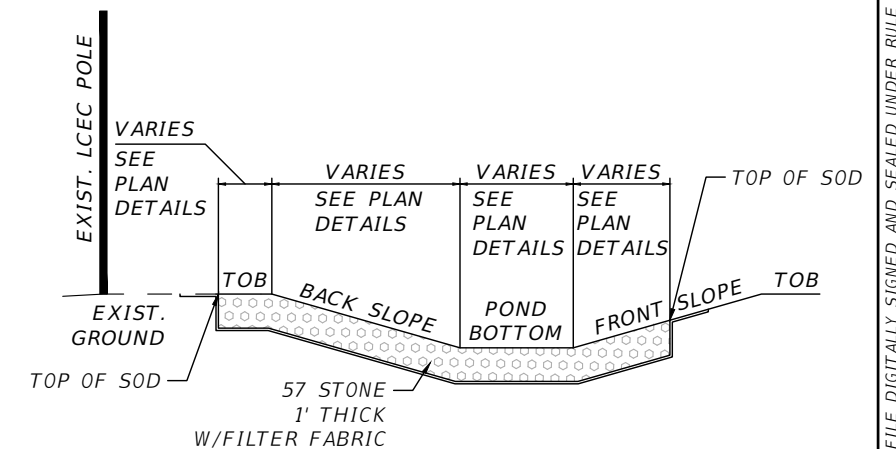
NOTE: STATIONS ARE BEGINNING AND ENDING OF 57 STONE PLACEMENT, NOT AREA.



RIP-RAP DOUBLE MITERED END DETAIL
N.T.S.



RIP-RAP MITERED END DETAIL
N.T.S.

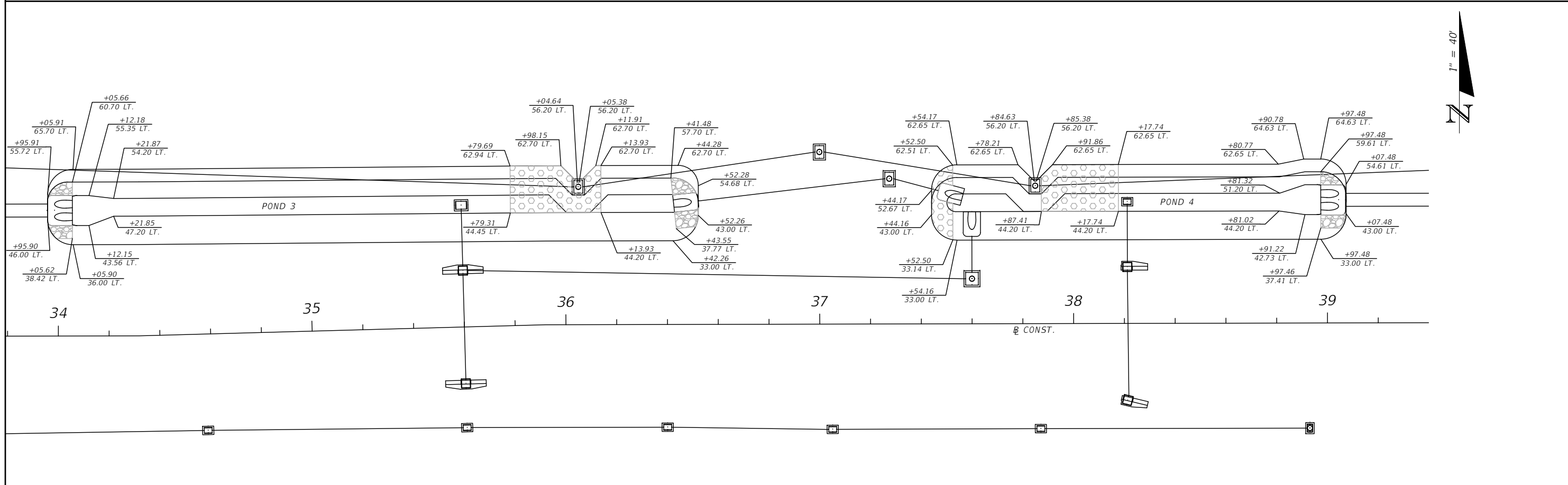
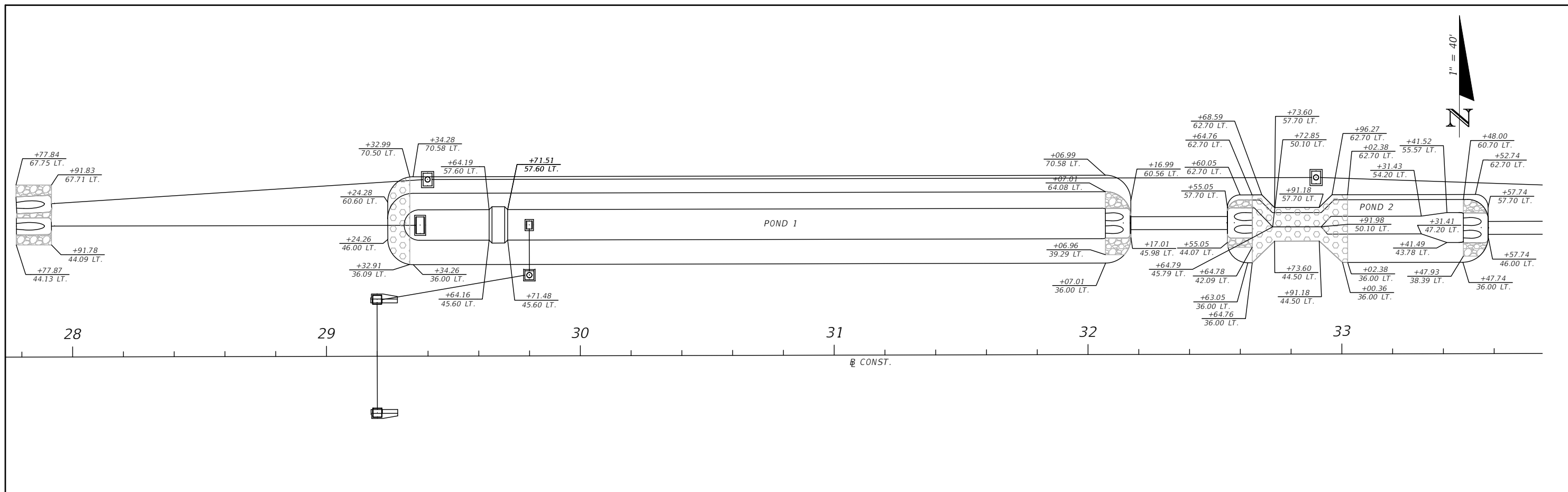


DRY DETENTION 57 STONE DETAIL
N.T.S.

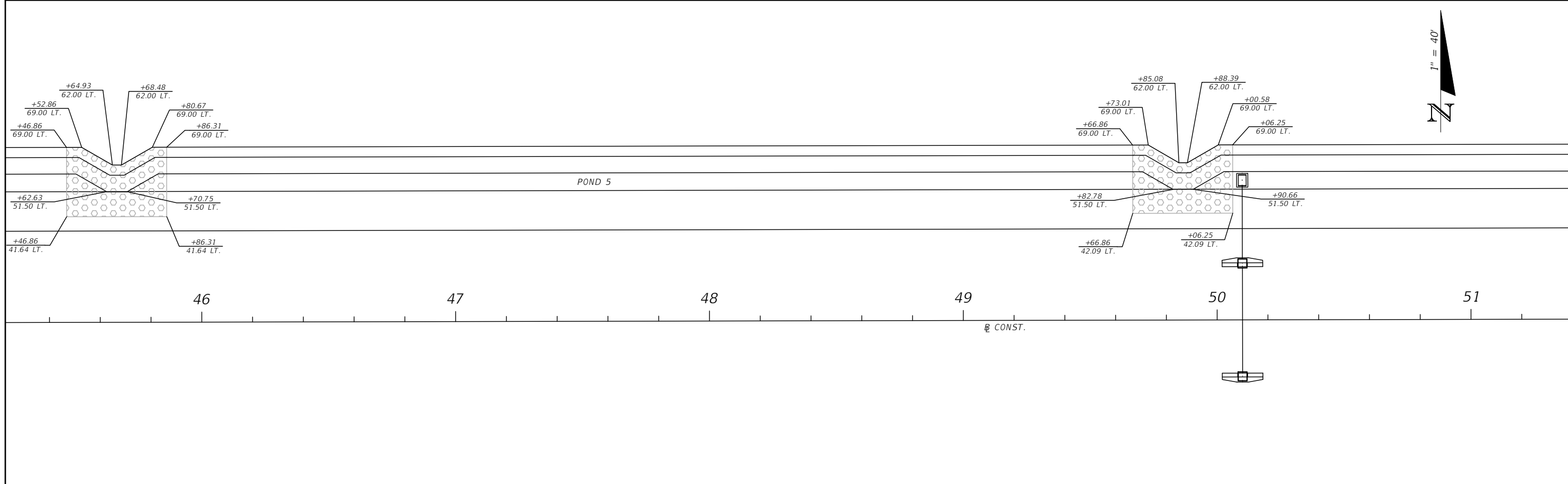
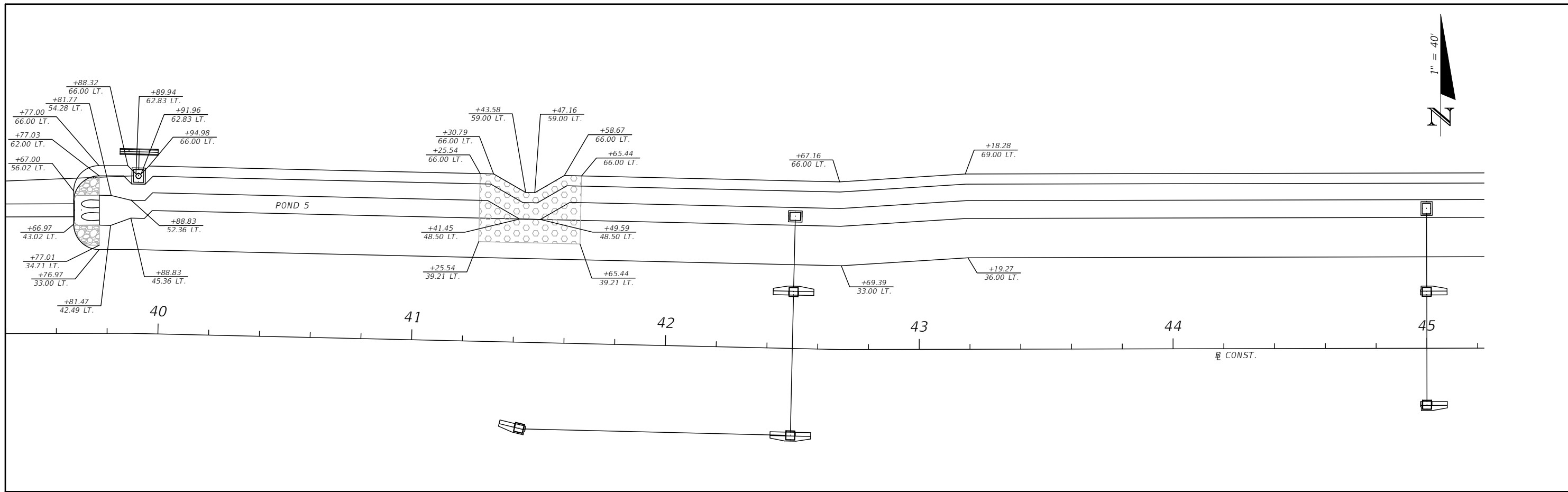
NOTE:

1. COST OF FILTER FABRIC INCLUDED IN THE COST OF RIPRAP AND 57 STONE. FABRIC SHALL BE TOED IN A MINIMUM OF 2' AT THE TOP AND BOTTOM OF THE SLOPE.
2. RIP-RAP TO BE PLACED IN AREAS WHERE SLOPE EXCEEDS 3:1.
3. 57 STONE TO BE PLACED IN DRY DETENTION AREAS ONLY AT LOCATIONS WITHIN A 20FT RADIUS OF LCEC POWER POLES.

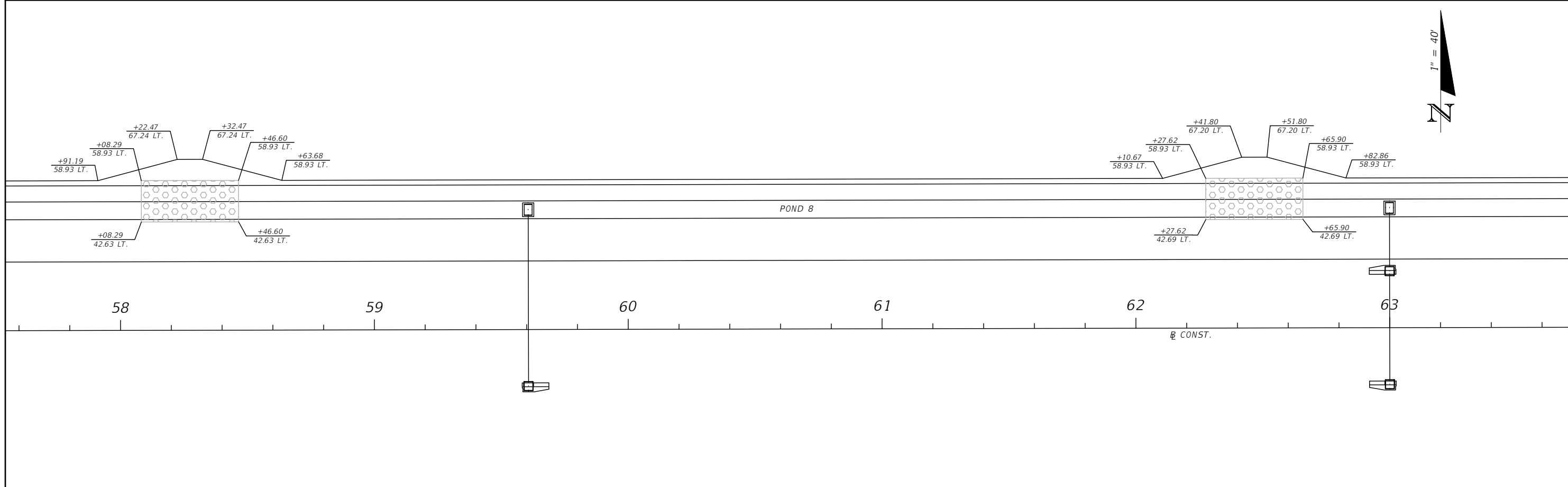
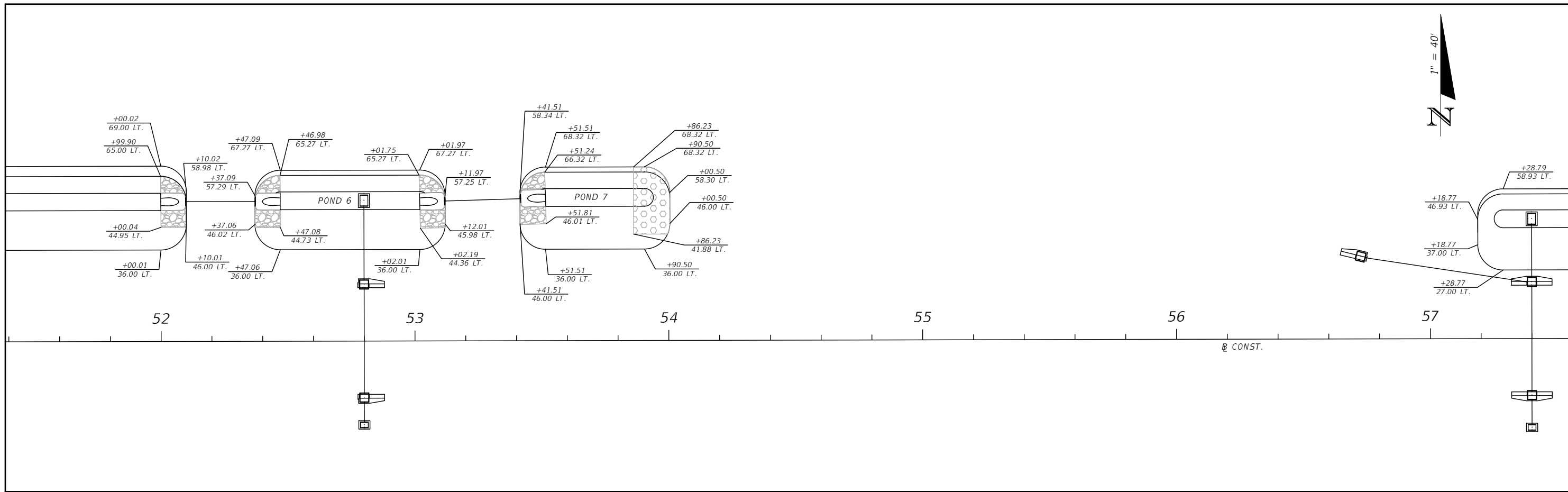
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			MISCELLANEOUS DRAINAGE DETAILS	SHEET NO. 69
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		



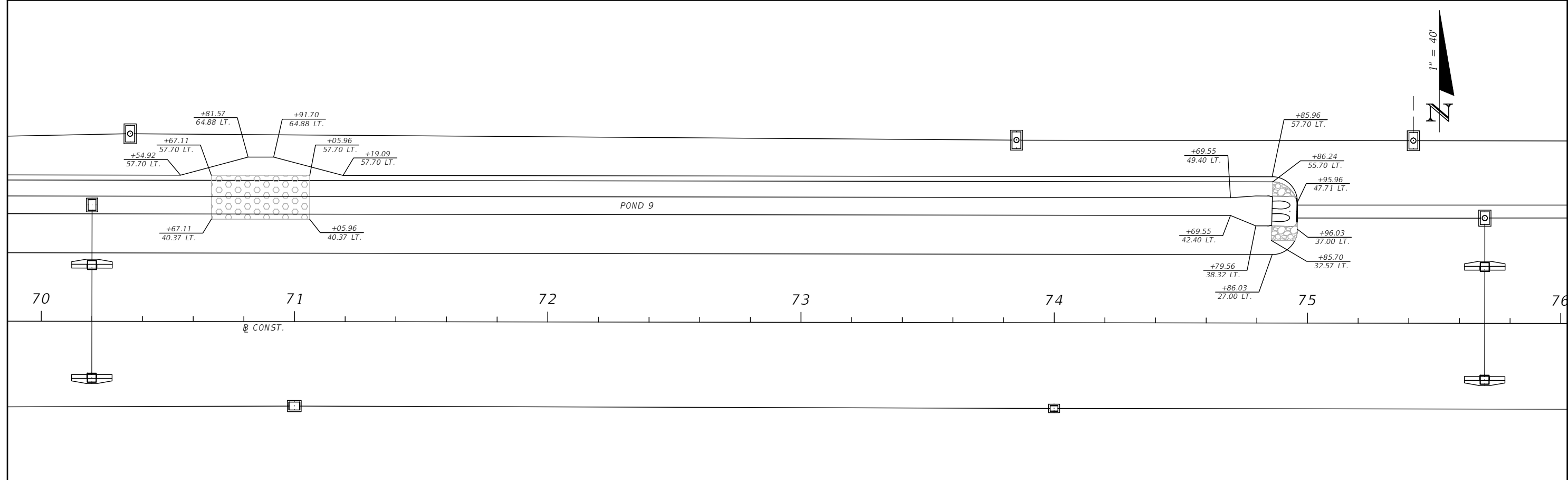
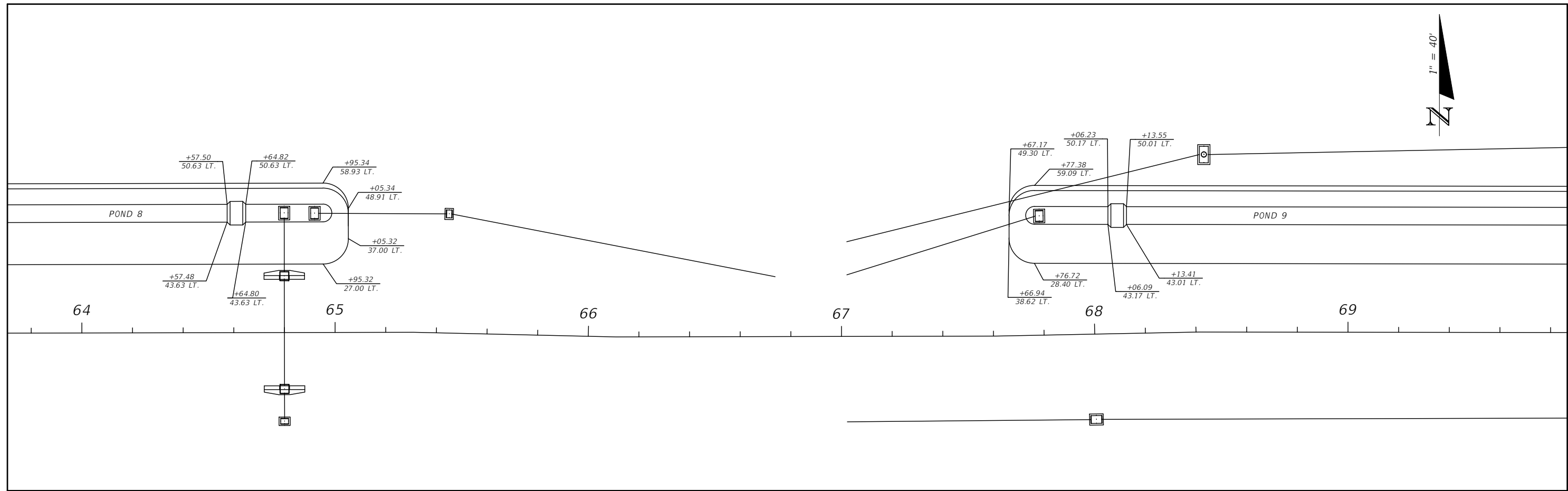
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			POND-RIP RAP & STONE DETAILS	SHEET NO. 70
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		



REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			POND-RIP RAP & STONE DETAILS	SHEET NO. 71
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---				LITTLETON ROAD	LEE	CN190114		

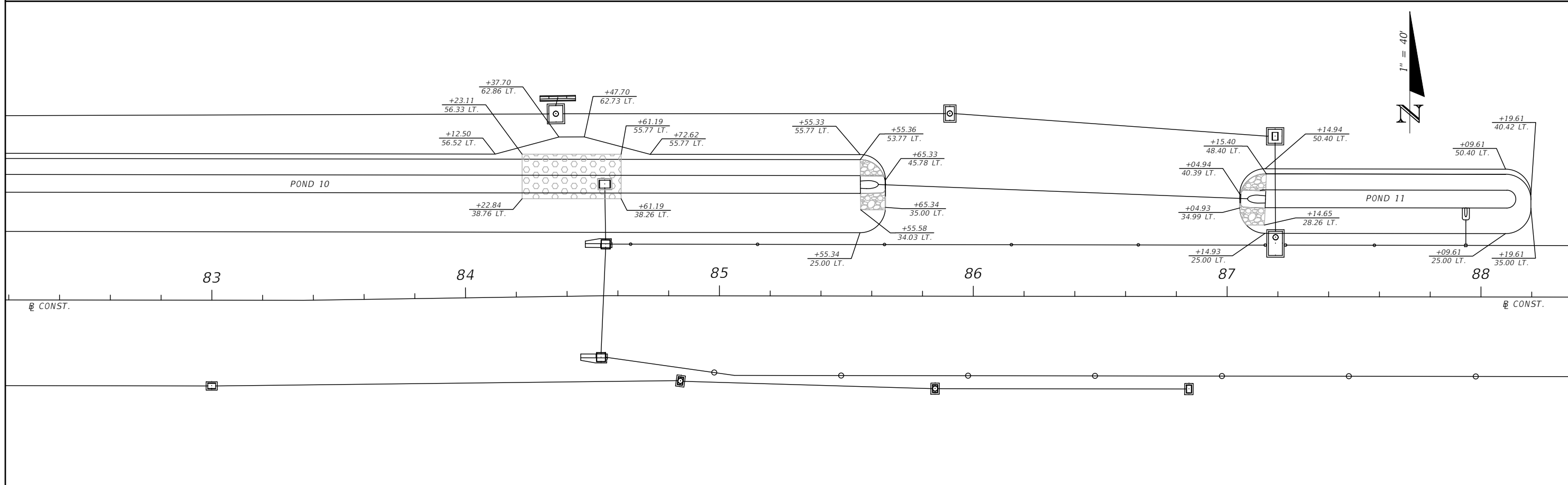
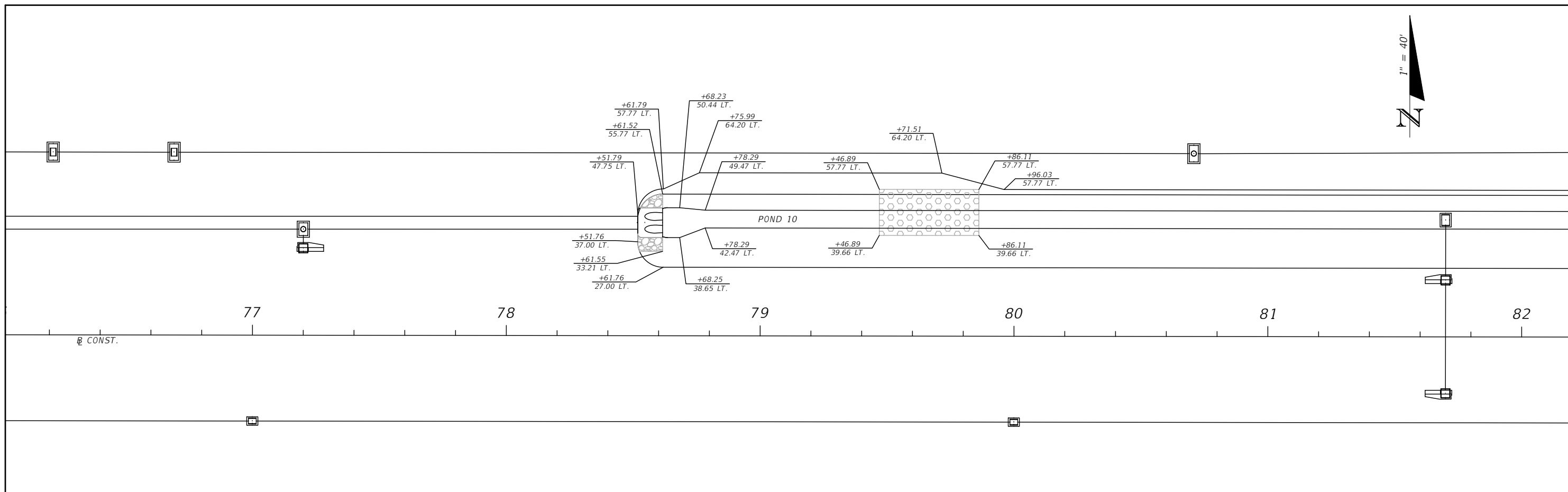


REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			POND-RIP RAP & STONE DETAILS	SHEET NO. 72
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		



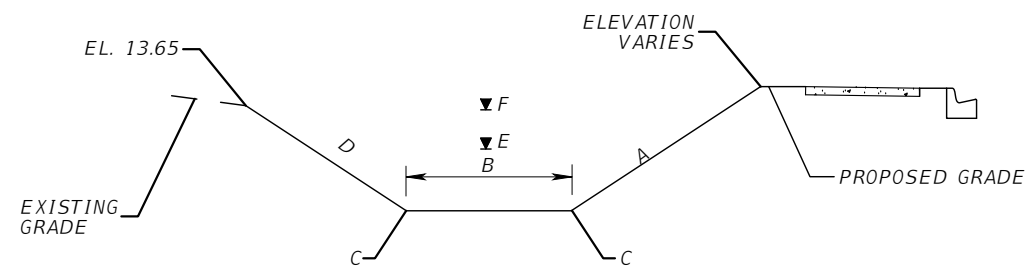
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			POND-RIP RAP & STONE DETAILS	SHEET NO. 73
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---				LITTLETON ROAD	LEE	CN190114		

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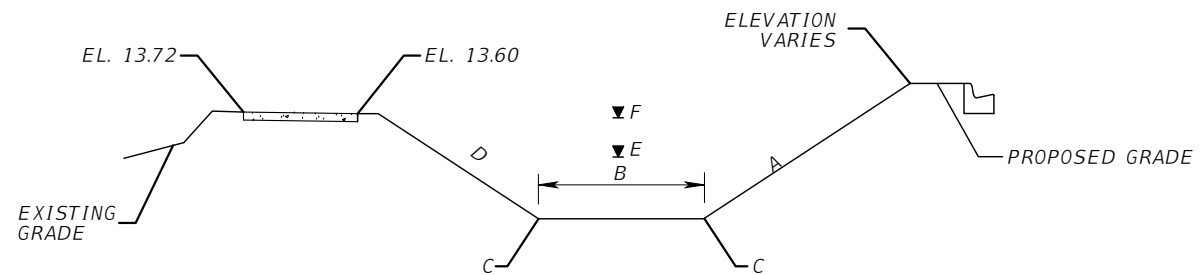


REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			POND-RIP RAP & STONE DETAILS	SHEET NO. 74
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---				LITTLETON ROAD	LEE	CN190114		

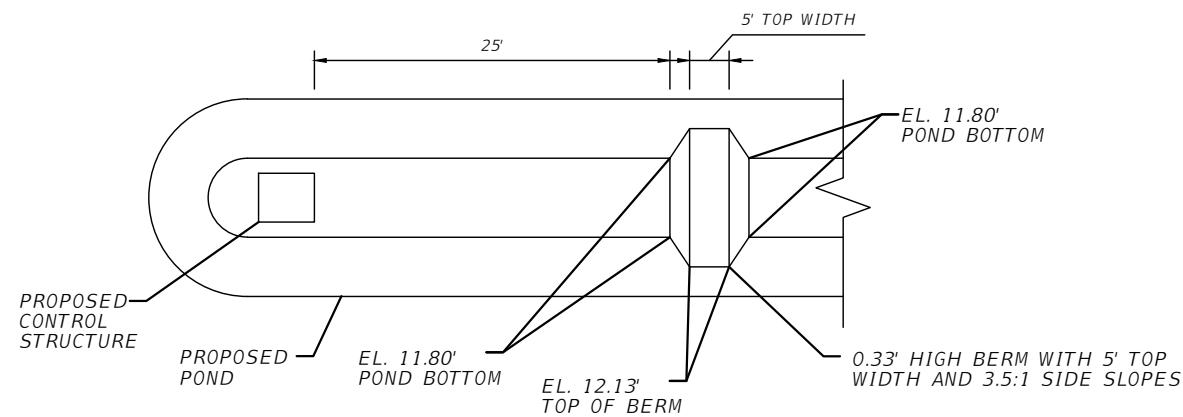
LINEAR POND													
LINEAR POND	LOCATION			SIDE	FRONT SLOPE (A)	POND BOTTOM WIDTH (B)	POND BOTTOM EL. (C)	BACK SLOPE (D)	CONTROL EL.	WATER QUALITY EL. (E)	WATER QUALITY VOLUME	25 YR DHW EL. (F)	POND VOLUME FROM POND BOTTOM TO DHW (CF)
	STATION TOP OF BANK		STATION TOP OF BANK										
1	29+24.26	to	32+17.01	LT	1:3.5	12	11.8	1:3.5	10.8	12.5	2829.2	13.62	9899.0
2	32+55.05	to	33+57.74	LT	1:3.5	7	11.8	1:3.5	10.8	12.5	557.7	13.62	2284.7
3	33+95.90	to	36+52.28	LT	1:3.5	7	11.8	1:3.5	10.8	12.5	1587.6	13.62	6142.9
4	37+44.16	to	39+07.48	LT	1:3.5	7	11.8	1:3.5	10.8	12.5	999.4	13.62	3860.5
5	39+66.97	to	52+10.02	LT	1:3.5	7	11.8	1:3.5	10.8	12.5	7467.7	13.62	29279.0
6	52+37.06	to	53+12.01	LT	1:3.5	7	11.8	1:3.5	10.8	12.5	414.8	13.62	1657.4
7	53+41.51	to	54+00.50	LT	1:3.5	7	11.8	1:3.5	10.8	12.5	309.2	13.62	1259.5
8	57+18.77	to	65+05.34	LT	1:3.5	7	11.8	1:3.5	10.8	12.6	6075.8	13.56	18632.7
9	67+66.94	to	74+96.03	LT	1:3.5	7	11.8	1:3.5	10.8	12.3	3139.9	13.57	17288.5
10	78+51.76	to	85+65.34	LT	1:3.5	7	11.8	1:3.5	10.8	12.3	3067.9	13.57	16893.8
11	87+04.93	to	88+19.61	LT	1:3.5	7	11.8	1:3.5	10.8	12.3	449.7	13.57	2563.5



POND 1-7 TYPICAL SECTION
N.T.S.



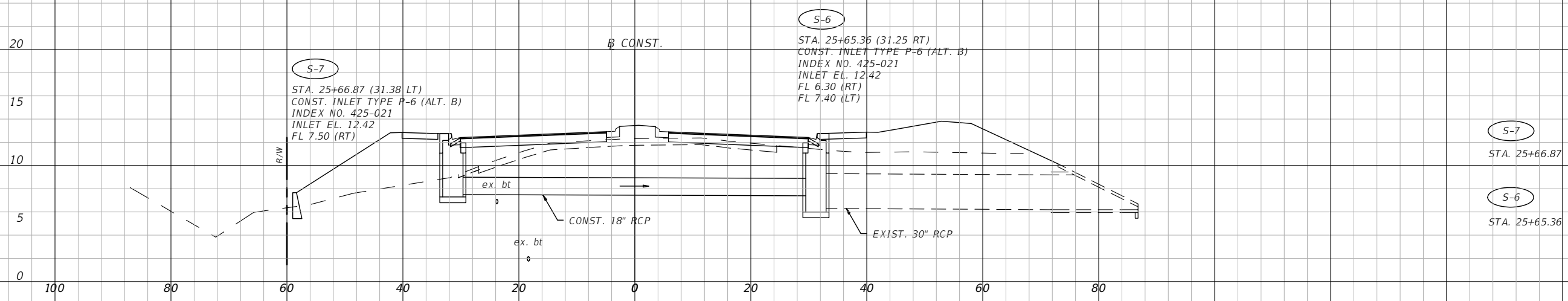
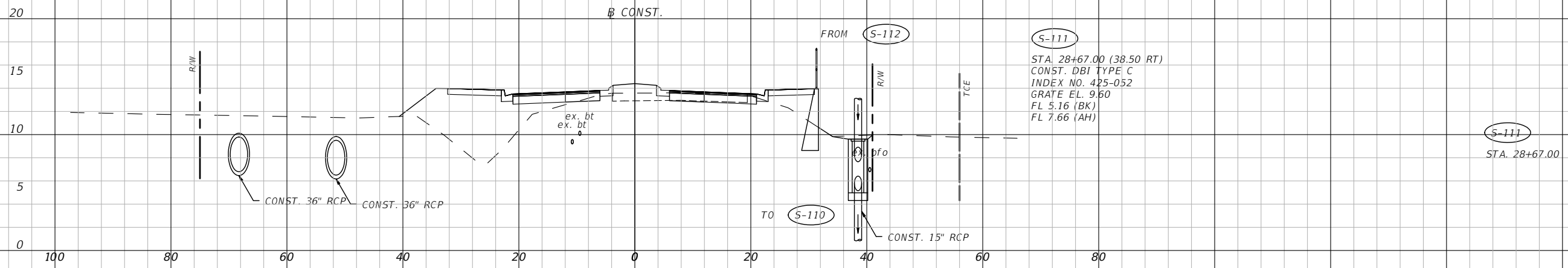
POND 8-11 TYPICAL SECTION
N.T.S.



POND 1, 8* & 9 BERM SECTION
*MIRRORED FOR POND 8 N.T.S.

NOTE: SEE POND DETAIL SHEET FOR ADDITIONAL INFORMATION

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			POND DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		75



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
76

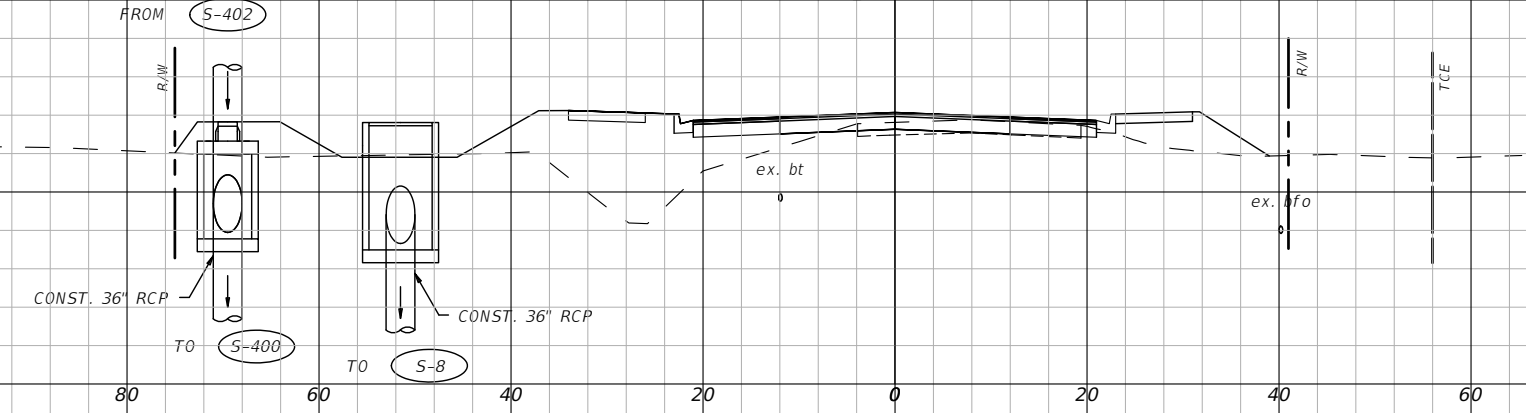
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S-401
 STA. 29+40.00 (69.50 LT)
 CONST. MANHOLE TYPE 7
 (J-BOTTOM), ALT. B. 3.5x5.0
 INDEX NO. 425-001, 425-010
 TOP EL. 13.65
 FL 7.89 (BK)
 FL 7.89 (AH)

S-9
 STA. 29+37.00 (51.50 LT)
 CONST. DBI TYPE H
 INDEX NO. 425-052
 GRATE EL. 13.61
 FL 7.31 (BK)

S-401
 STA. 29+40.00

S-9
 STA. 29+37.00

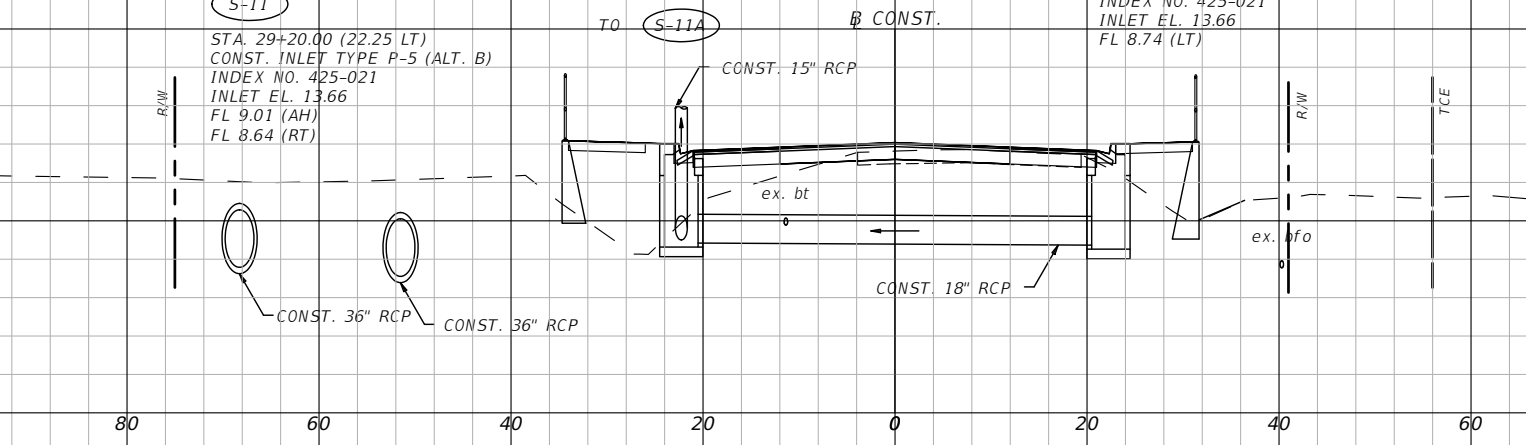


S-11
 STA. 29+20.00 (22.25 LT)
 CONST. INLET TYPE P-5 (ALT. B)
 INDEX NO. 425-021
 INLET EL. 13.66
 FL 9.01 (AH)
 FL 8.64 (RT)

S-10
 STA. 29+20.00 (22.25 RT)
 CONST. INLET TYPE P-5 (ALT. B)
 INDEX NO. 425-021
 INLET EL. 13.66
 FL 8.74 (LT)

S-11
 STA. 29+20.00

S-10
 STA. 29+20.00



1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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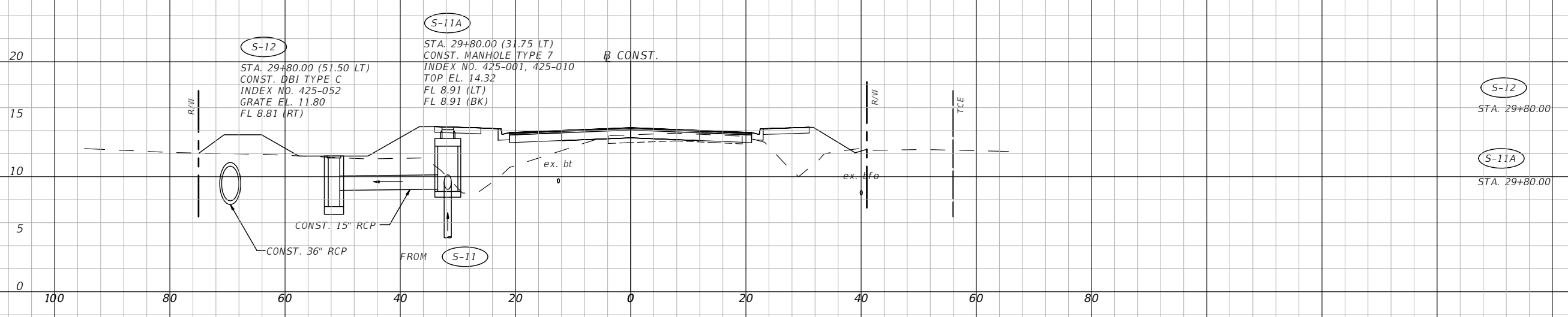
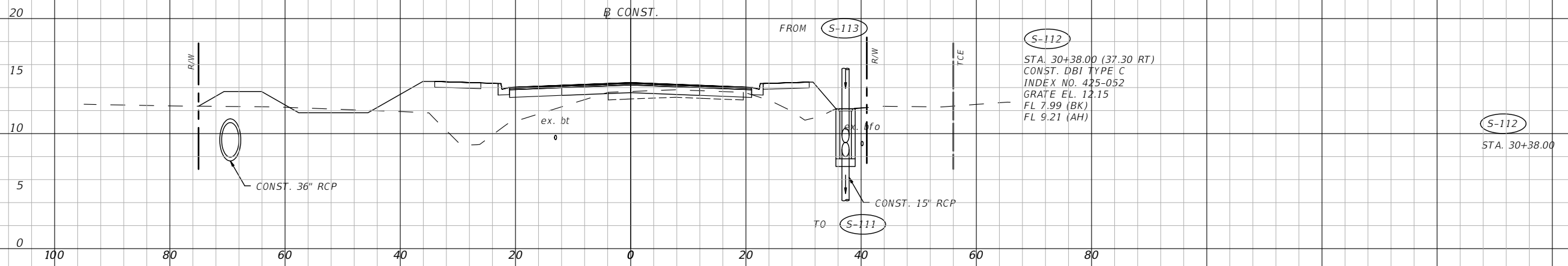
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
77

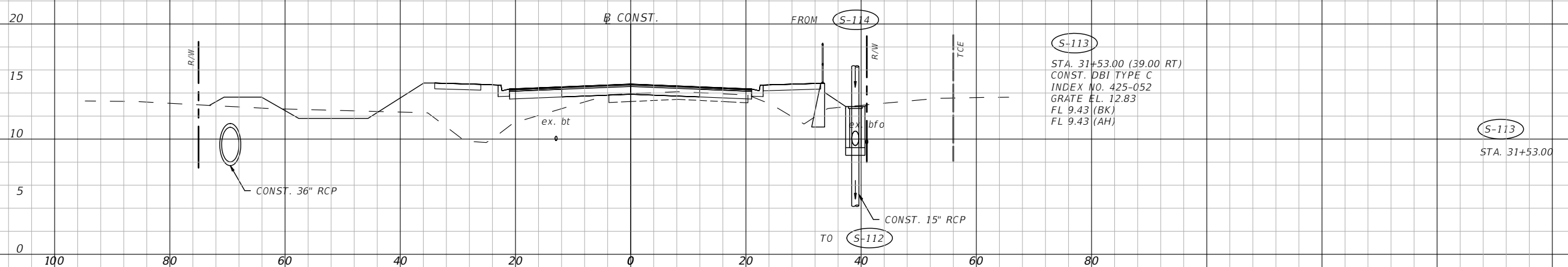
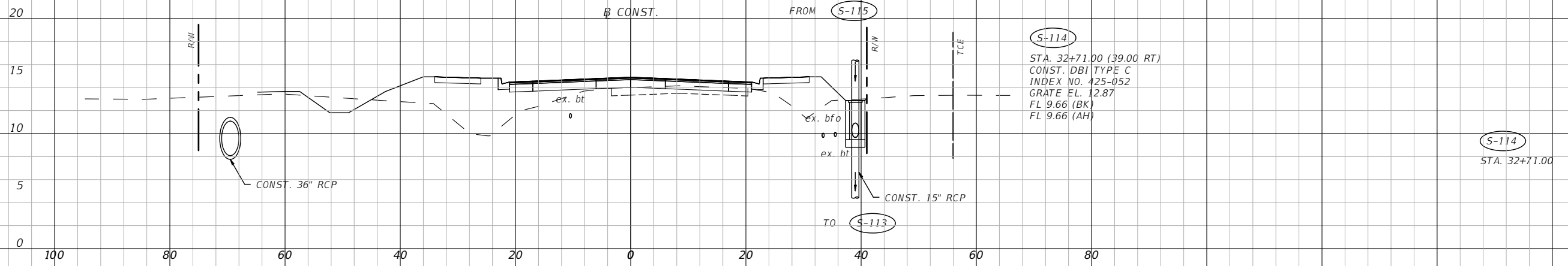
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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 78
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	CONTRACT NO.	
---	---				LITTLETON ROAD	LEE	CN190114	

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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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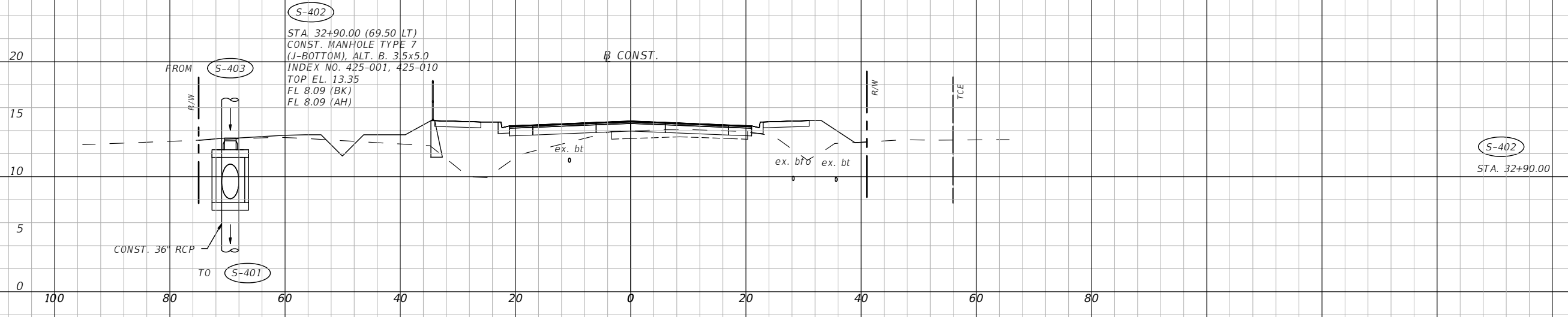
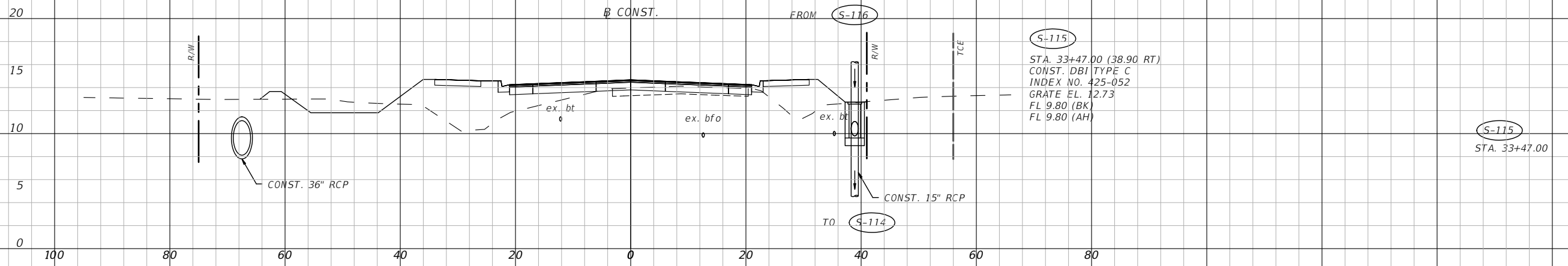
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
79

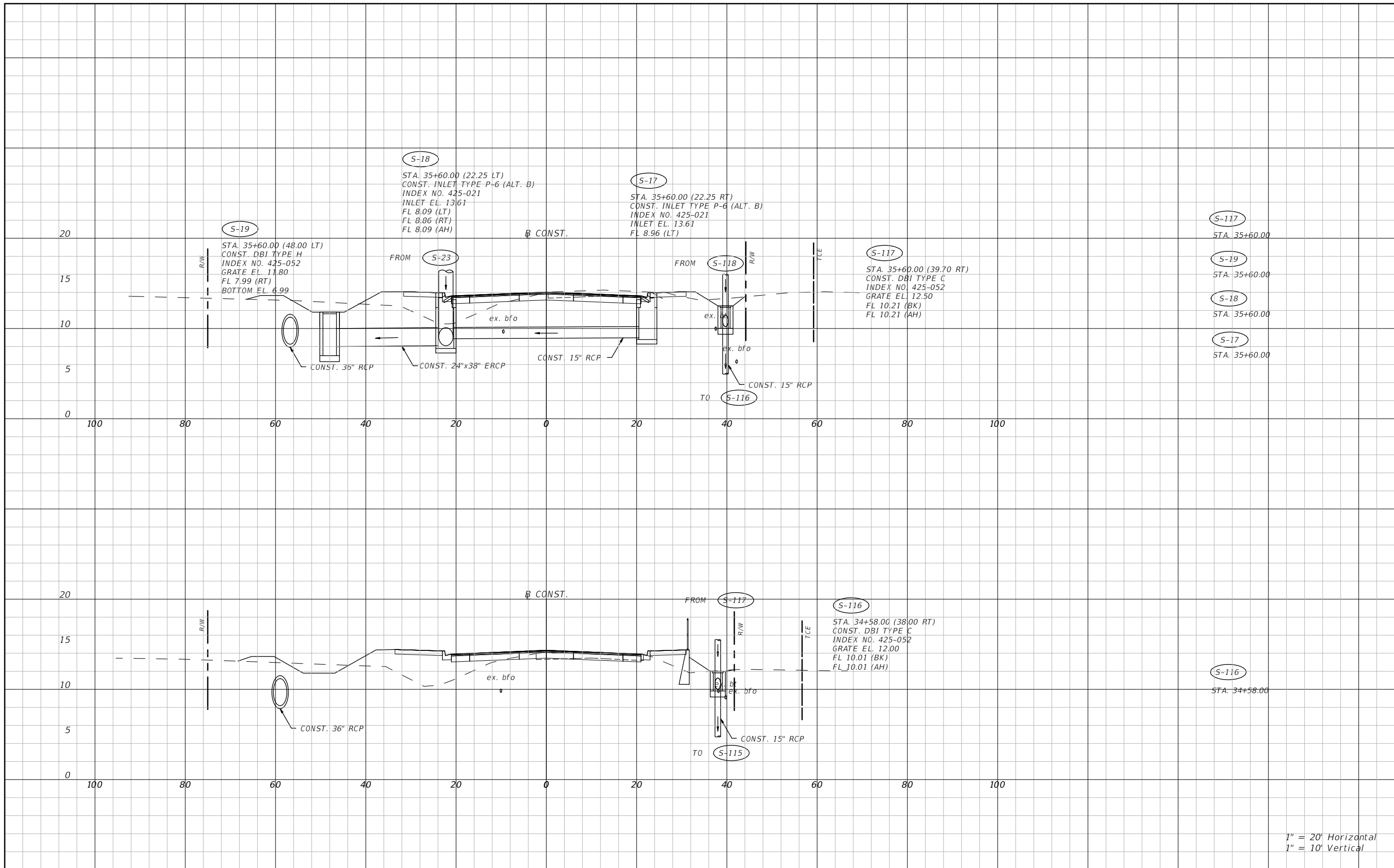
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SHEET NO. 80
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	CONTRACT NO.	
---	---	---	---	LITTLETON ROAD	LEE	CN190114	

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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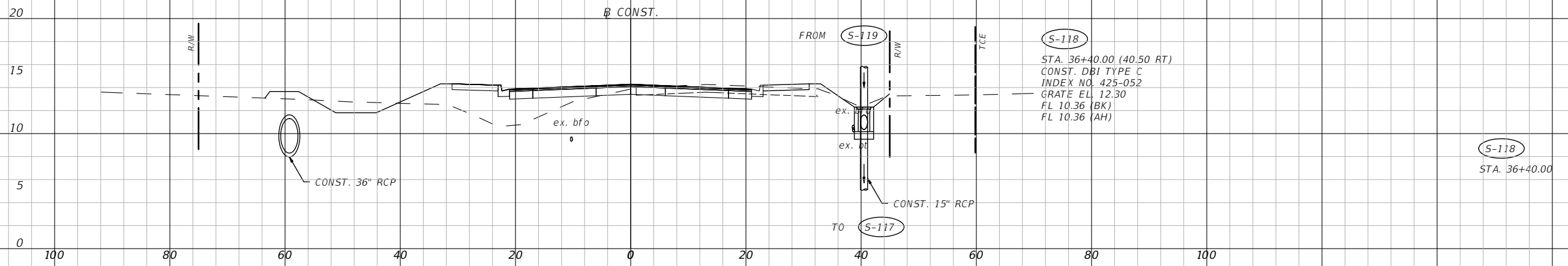
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

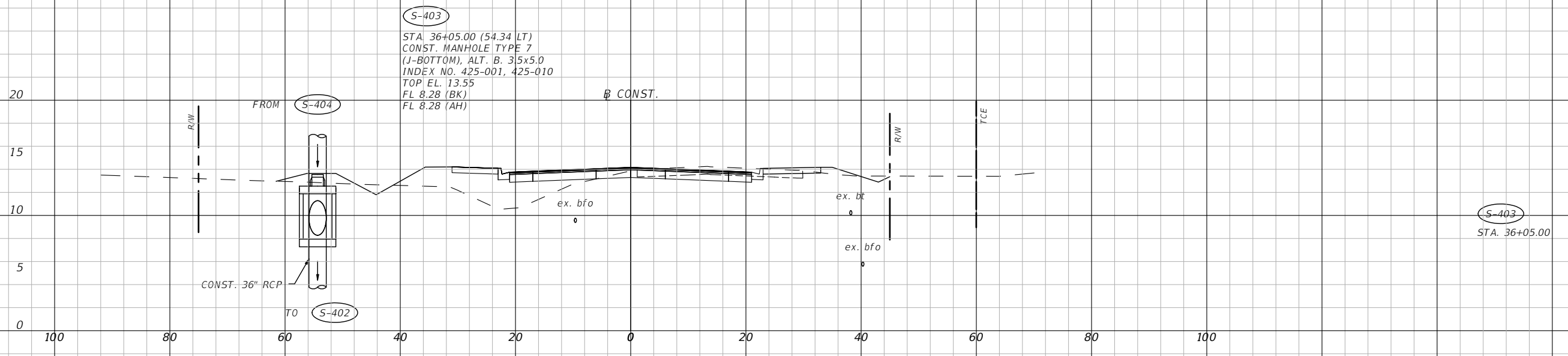
SHEET NO.
81

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



S-118
 STA. 36+40.00 (40.50 RT)
 CONST. DBI TYPE C
 INDEX NO. 425-052
 GRATE EL. 12.30
 FL 10.36 (BK)
 FL 10.36 (AH)

S-118
 STA. 36+40.00



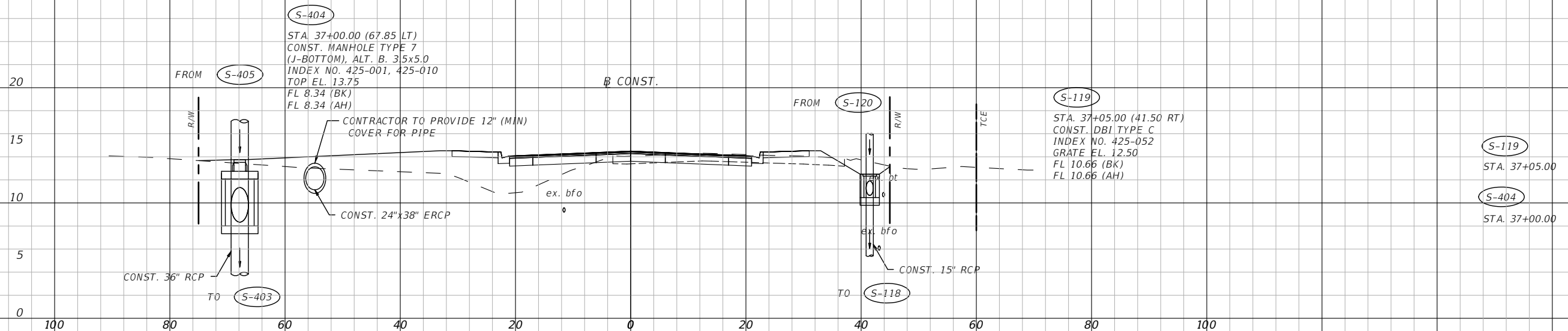
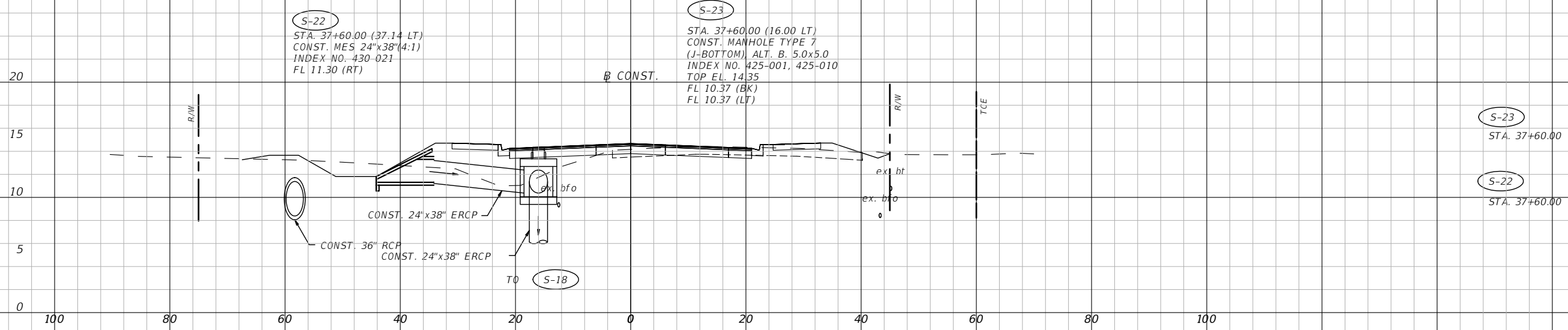
S-403
 STA. 36+05.00 (54.34 LT)
 CONST. MANHOLE TYPE 7
 (J-BOTTOM), ALT. B. 3'5x5.0
 INDEX NO. 425-001, 425-010
 TOP EL. 13.55
 FL 8.28 (BK)
 FL 8.28 (AH)

S-403
 STA. 36+05.00

1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	
---	---				LITTLETON ROAD	LEE	CN190114
					DRAINAGE STRUCTURES		82

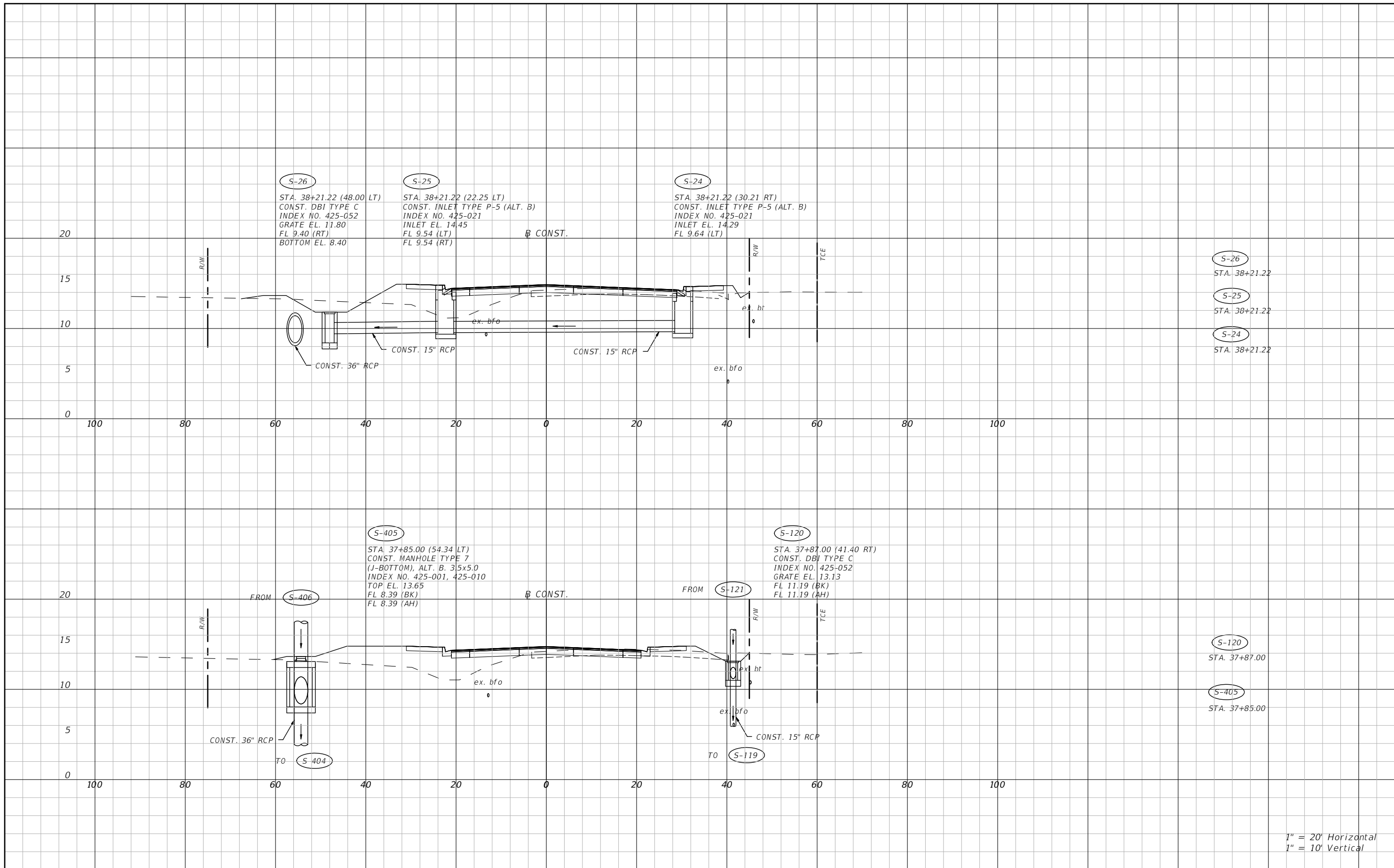
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	83

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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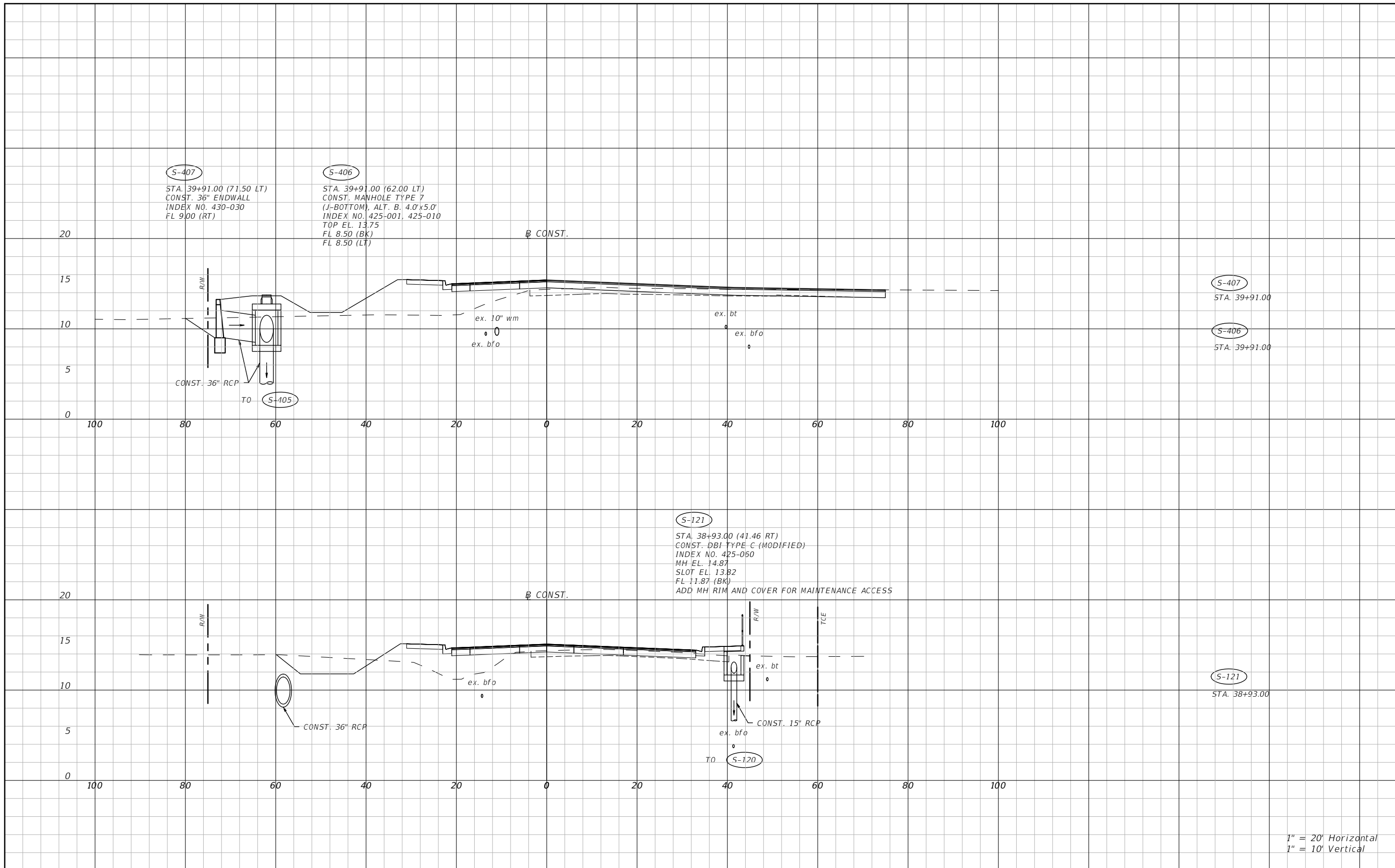
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
84

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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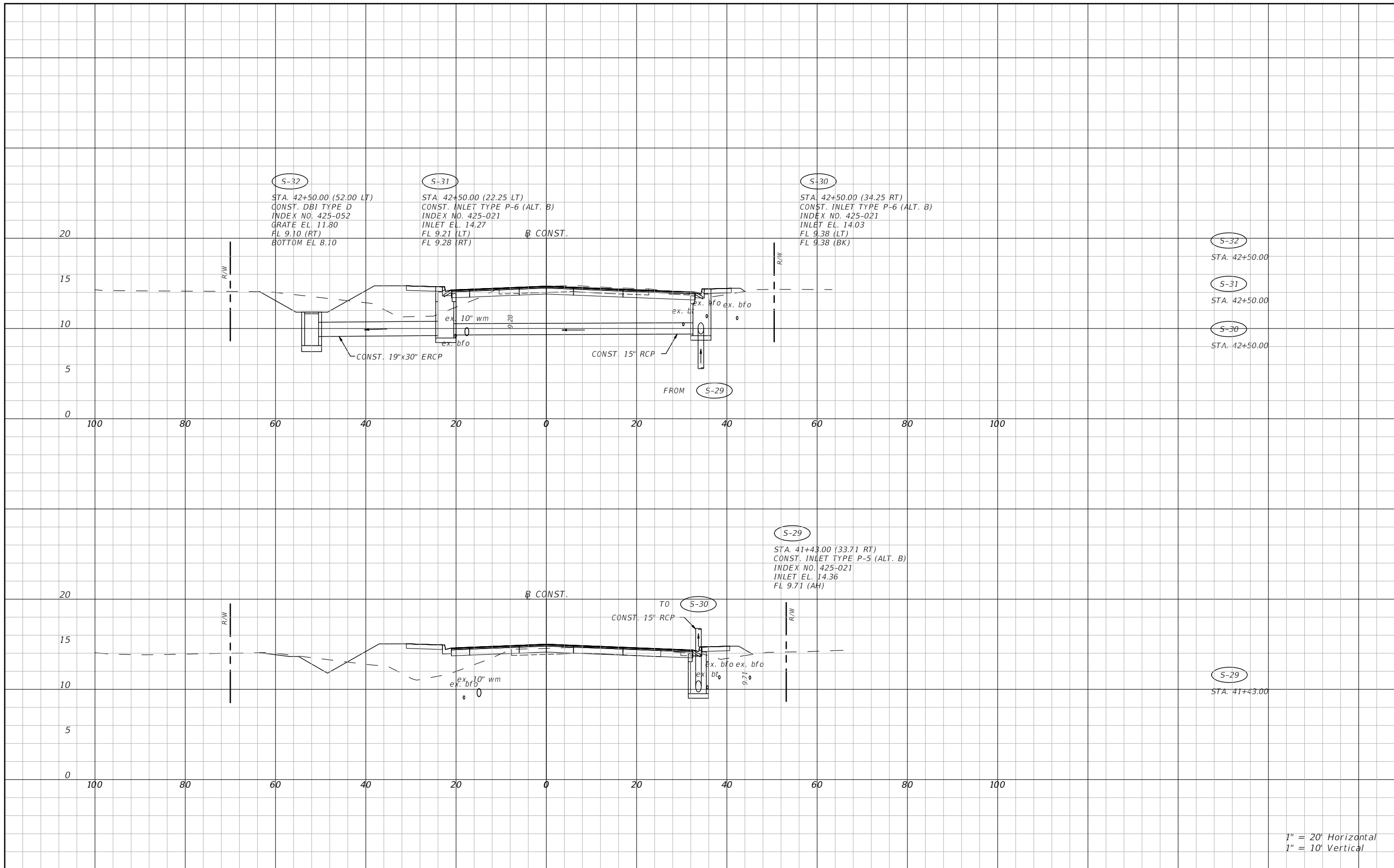
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
85

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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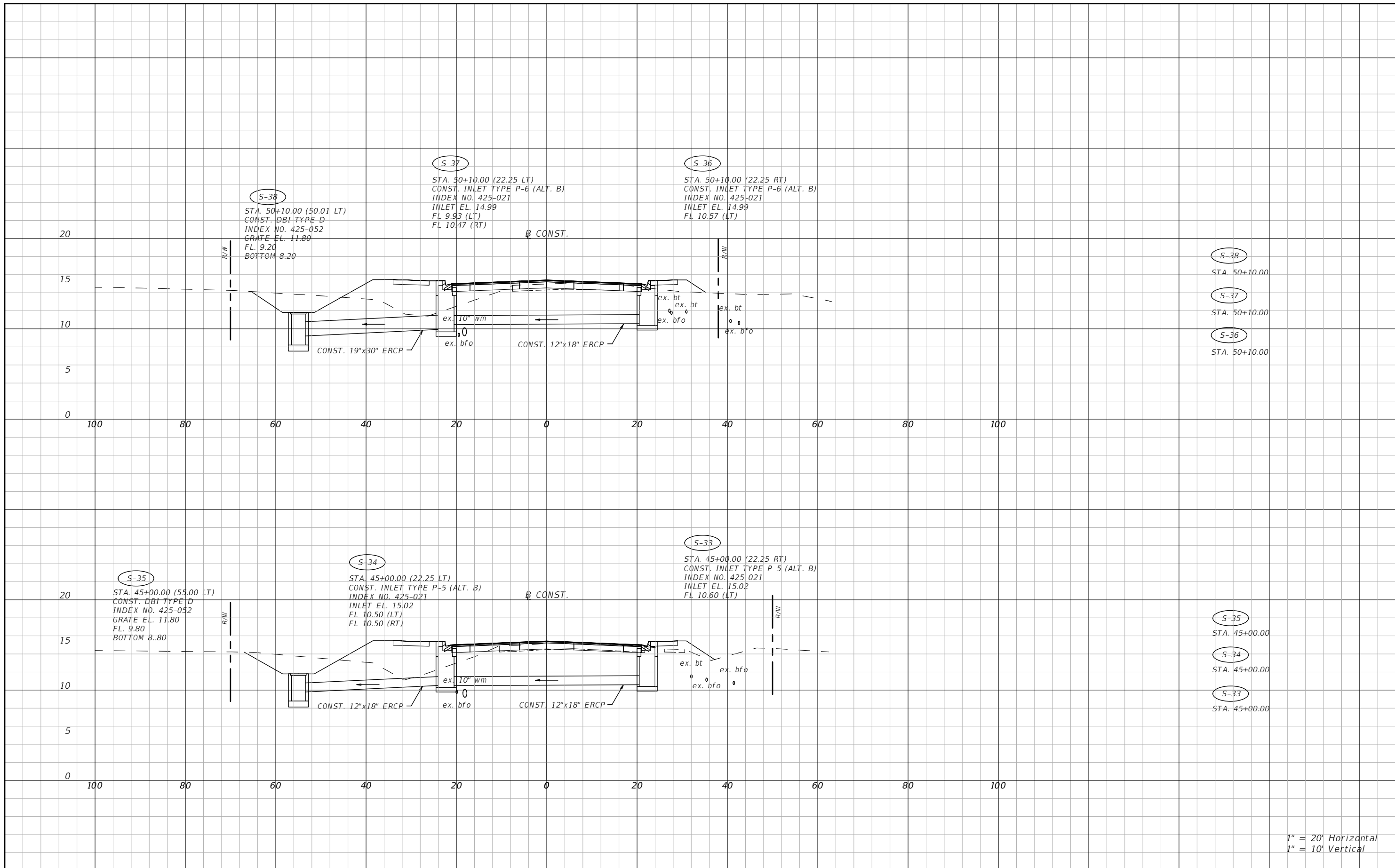
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
86

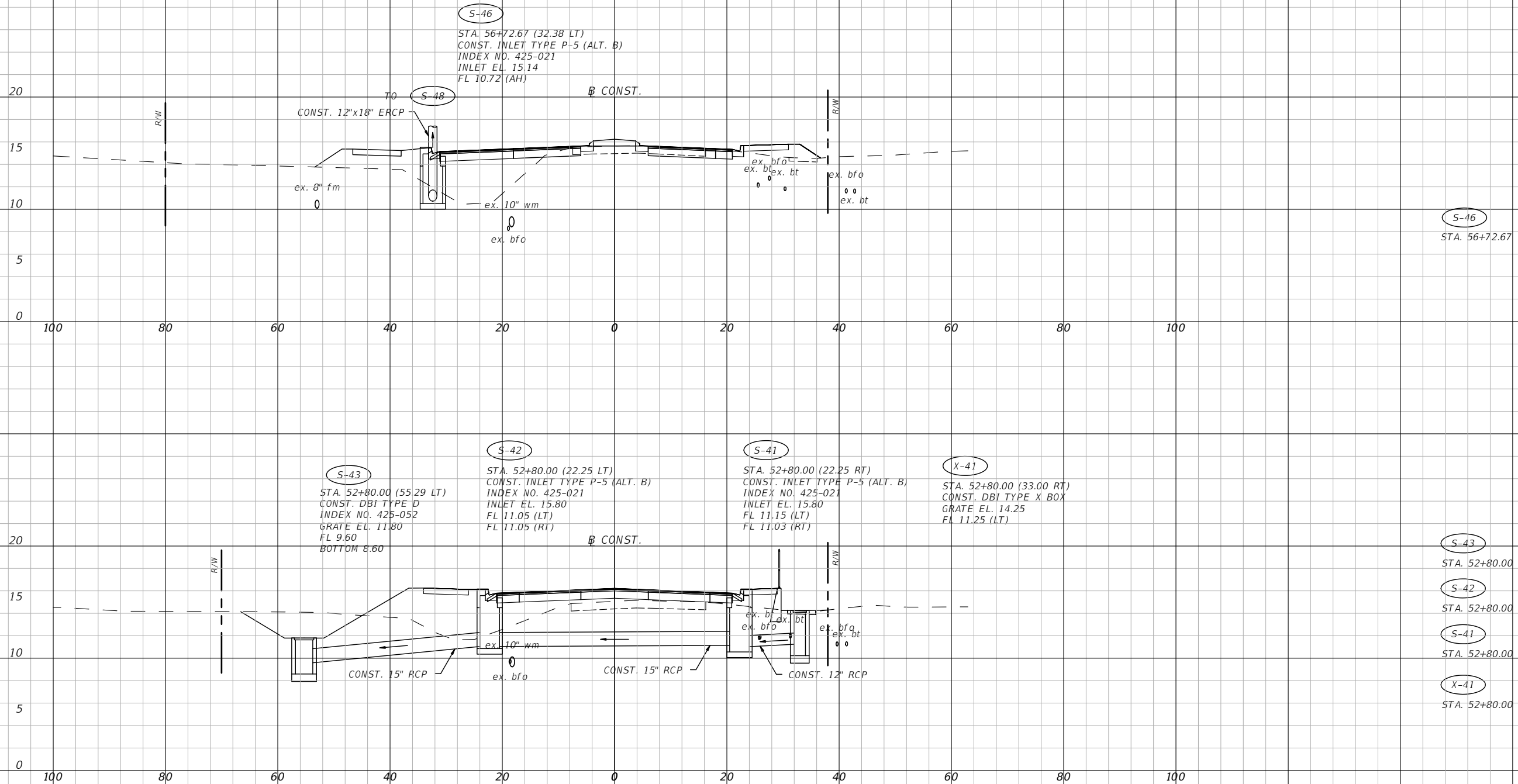
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SHEET NO. 87
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	CONTRACT NO.	
---	---			LITTLETON ROAD	CN190114		

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



S-46
STA. 56+72.67

S-43
STA. 52+80.00 (55.29 LT)
CONST. DBI TYPE D
INDEX NO. 425-052
GRATE EL. 11.80
FL 9.60
BOTTOM 8.60

S-42
STA. 52+80.00 (22.25 LT)
CONST. INLET TYPE P-5 (ALT. B)
INDEX NO. 425-021
INLET EL. 15.80
FL 11.05 (LT)
FL 11.05 (RT)

S-41
STA. 52+80.00 (22.25 RT)
CONST. INLET TYPE P-5 (ALT. B)
INDEX NO. 425-021
INLET EL. 15.80
FL 11.15 (LT)
FL 11.03 (RT)

X-41
STA. 52+80.00 (33.00 RT)
CONST. DBI TYPE X BOX
GRATE EL. 14.25
FL 11.25 (LT)

S-43
STA. 52+80.00

S-42
STA. 52+80.00

S-41
STA. 52+80.00

X-41
STA. 52+80.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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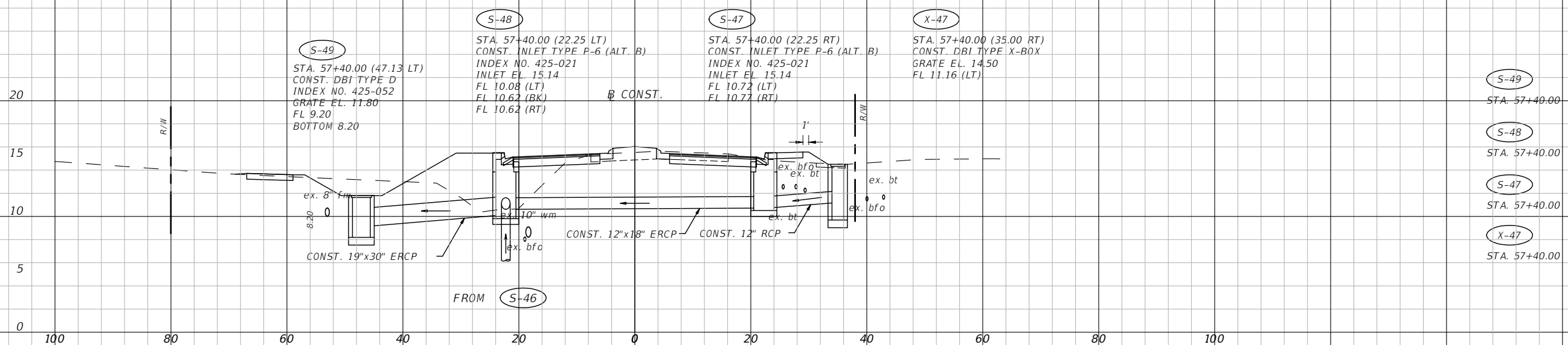
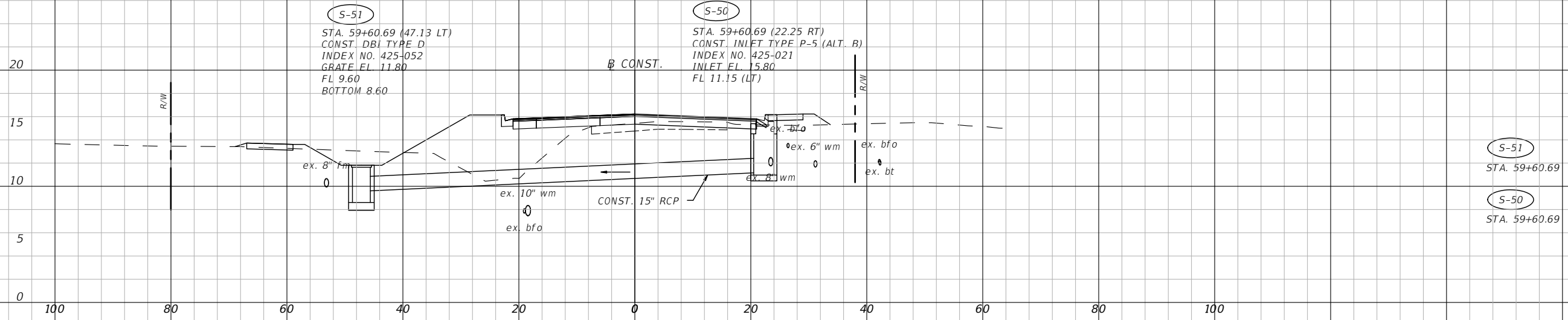
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
88

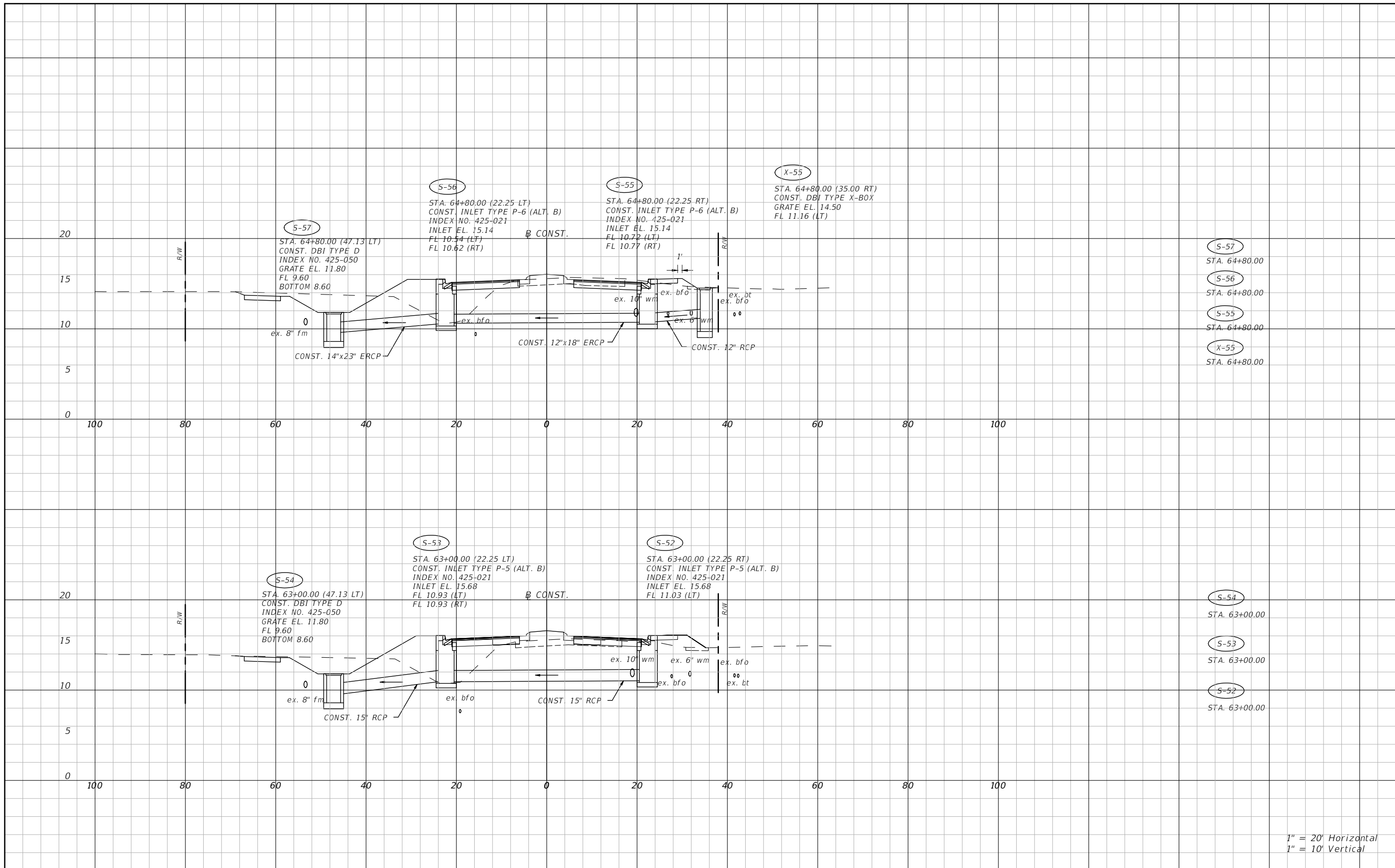
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 89
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	

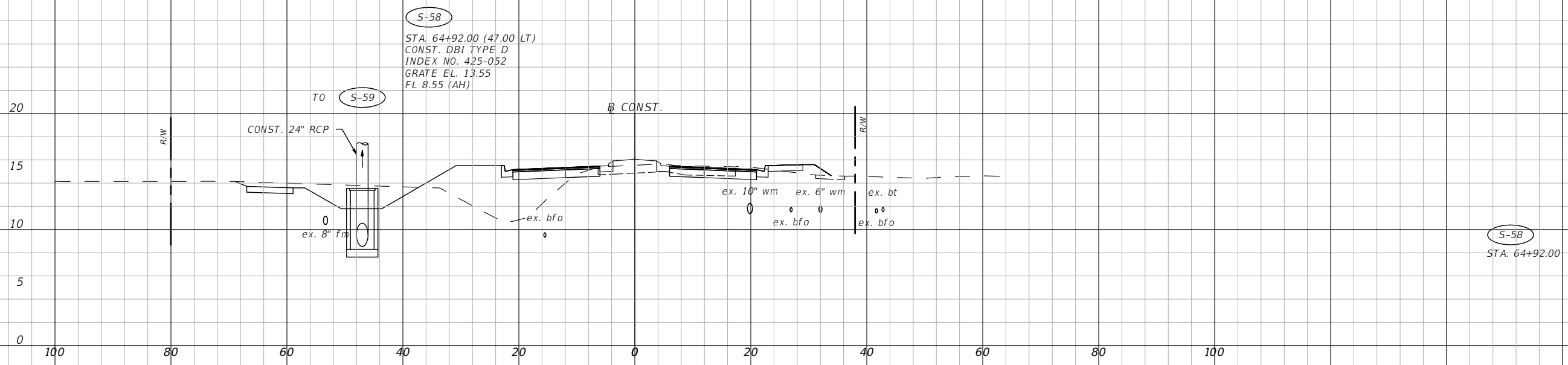
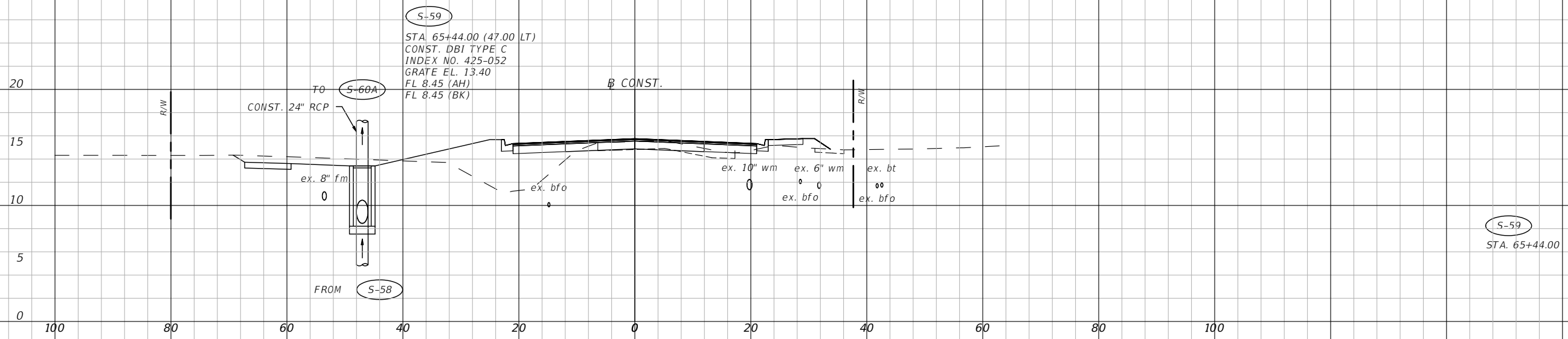
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SHEET NO. 90
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	CONTRACT NO.	
---	---	---	---	LITTLETON ROAD	LEE CN190114	DRAINAGE STRUCTURES	

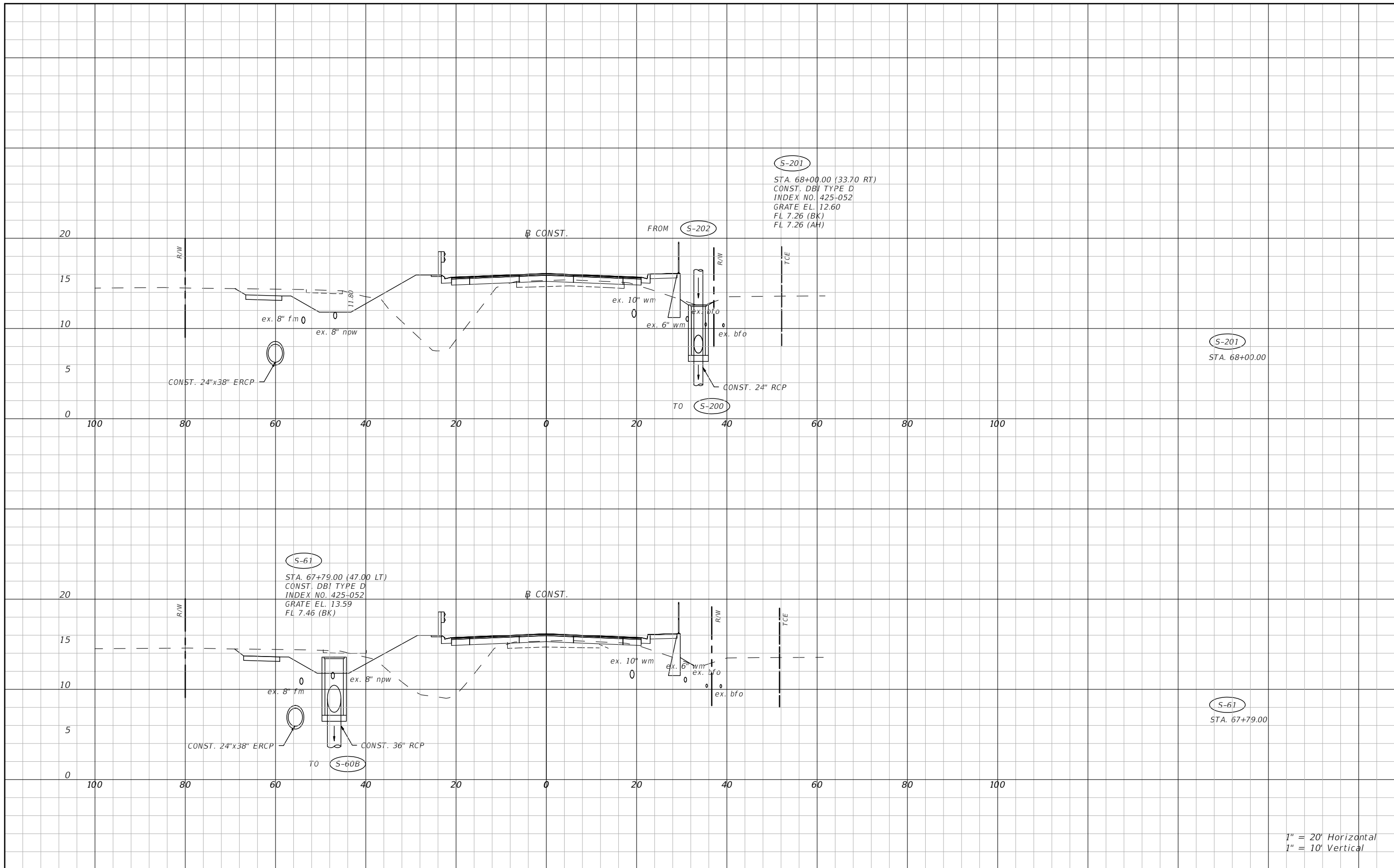
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---		LITTLETON ROAD	LEE	CN190114	91

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



S-201
STA. 68+00.00

S-201
STA. 68+00.00 (33.70 RT)
CONST. DBI TYPE D
INDEX NO. 425-052
GRATE EL. 12.60
FL 7.26 (BK)
FL 7.26 (AH)

S-61
STA. 67+79.00

S-61
STA. 67+79.00 (47.00 LT)
CONST. DBI TYPE D
INDEX NO. 425-052
GRATE EL. 13.59
FL 7.46 (BK)

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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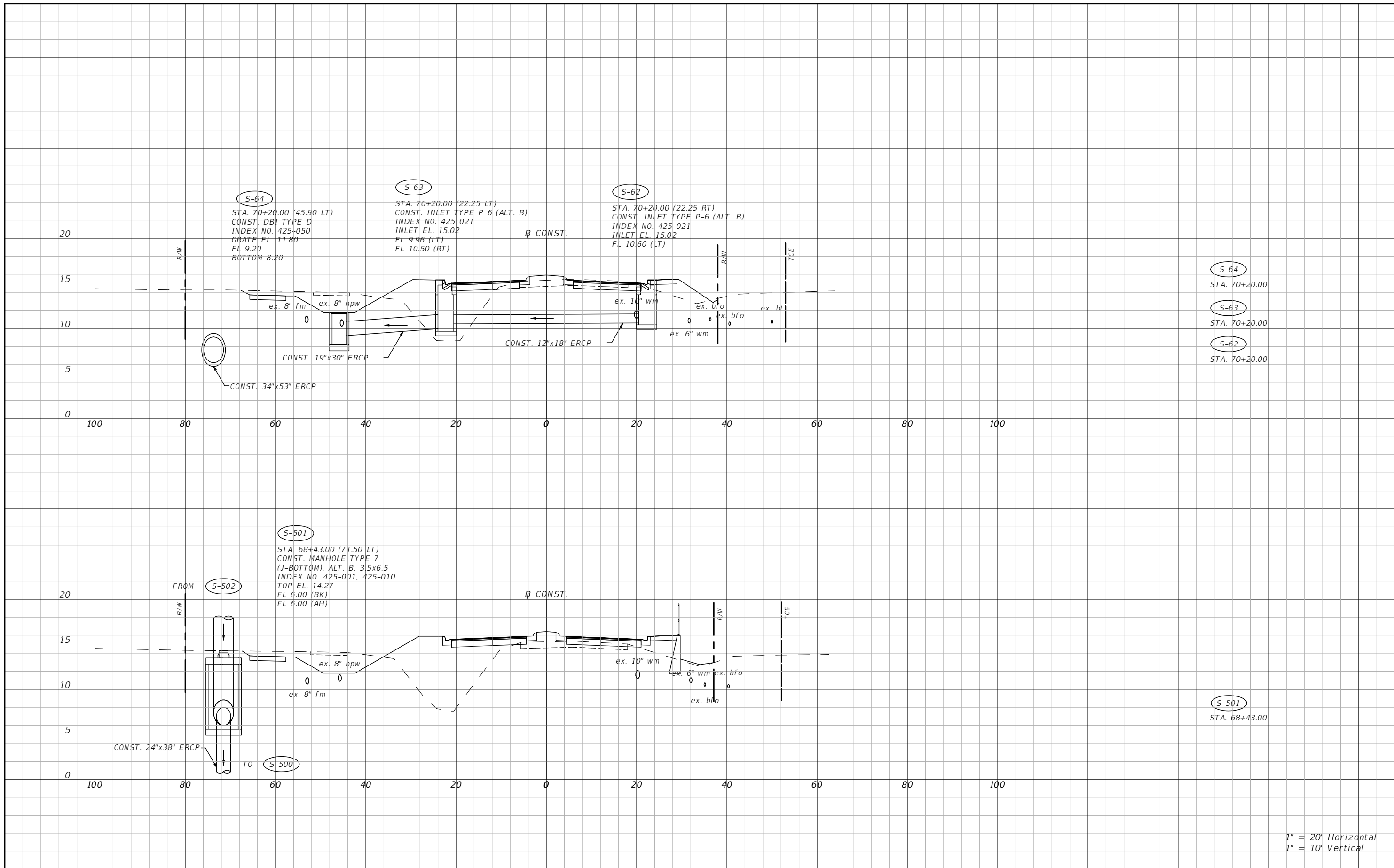
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
92

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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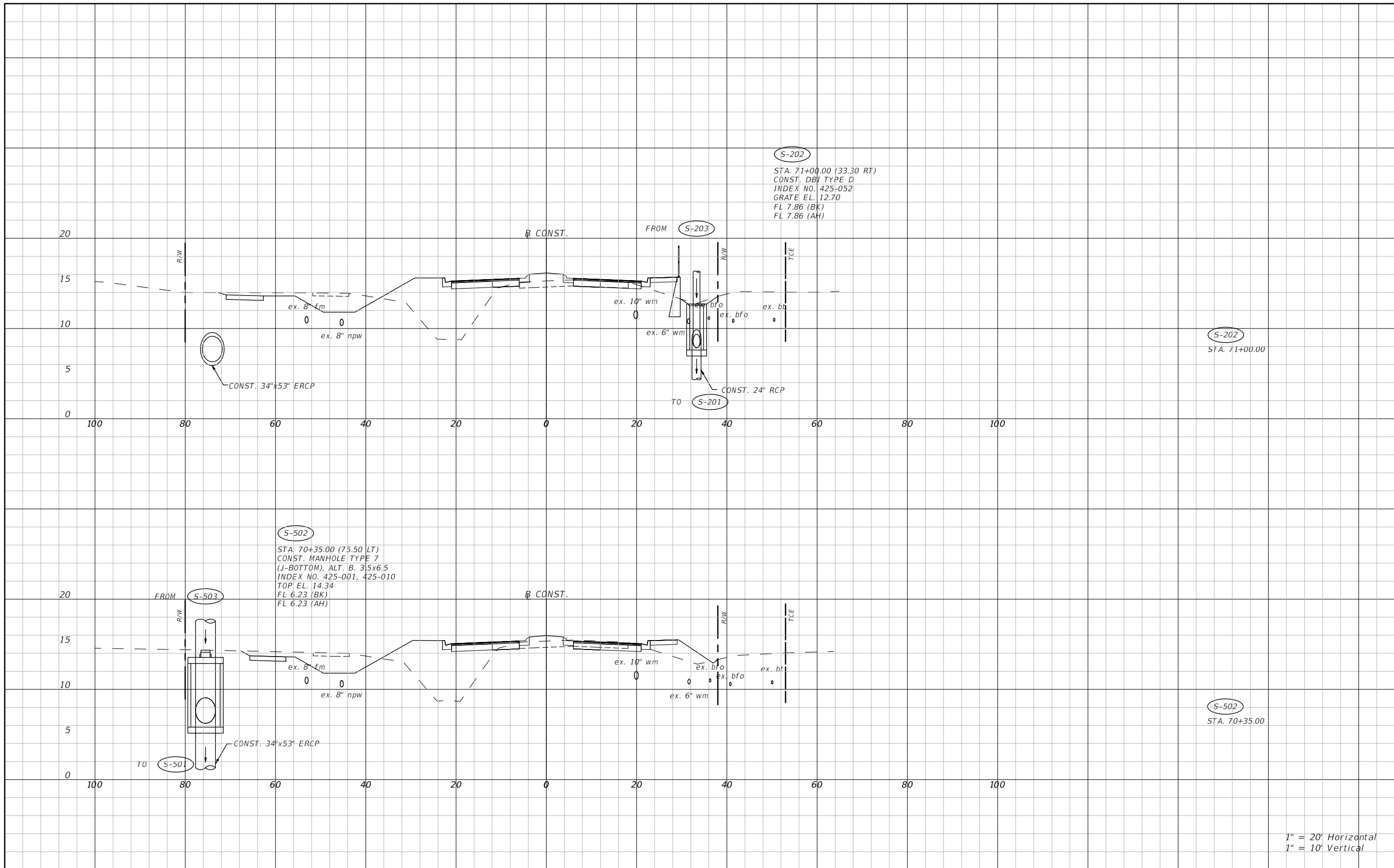
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
93

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



S-202
 STA. 71+00.00 (33.30 RT)
 CONST. DBI TYPE D
 INDEX NO. 425-052
 GRATE EL. 12.70
 FL 7.86 (BK)
 FL 7.86 (AH)

S-202
 STA. 71+00.00

S-502
 STA. 70+35.00 (75.50 LT)
 CONST. MANHOLE TYPE 7
 (J-BOTTOM), ALT. B. 3.5x6.5
 INDEX NO. 425-001, 425-010
 TOP EL. 14.34
 FL 6.23 (BK)
 FL 6.23 (AH)

S-502
 STA. 70+35.00

1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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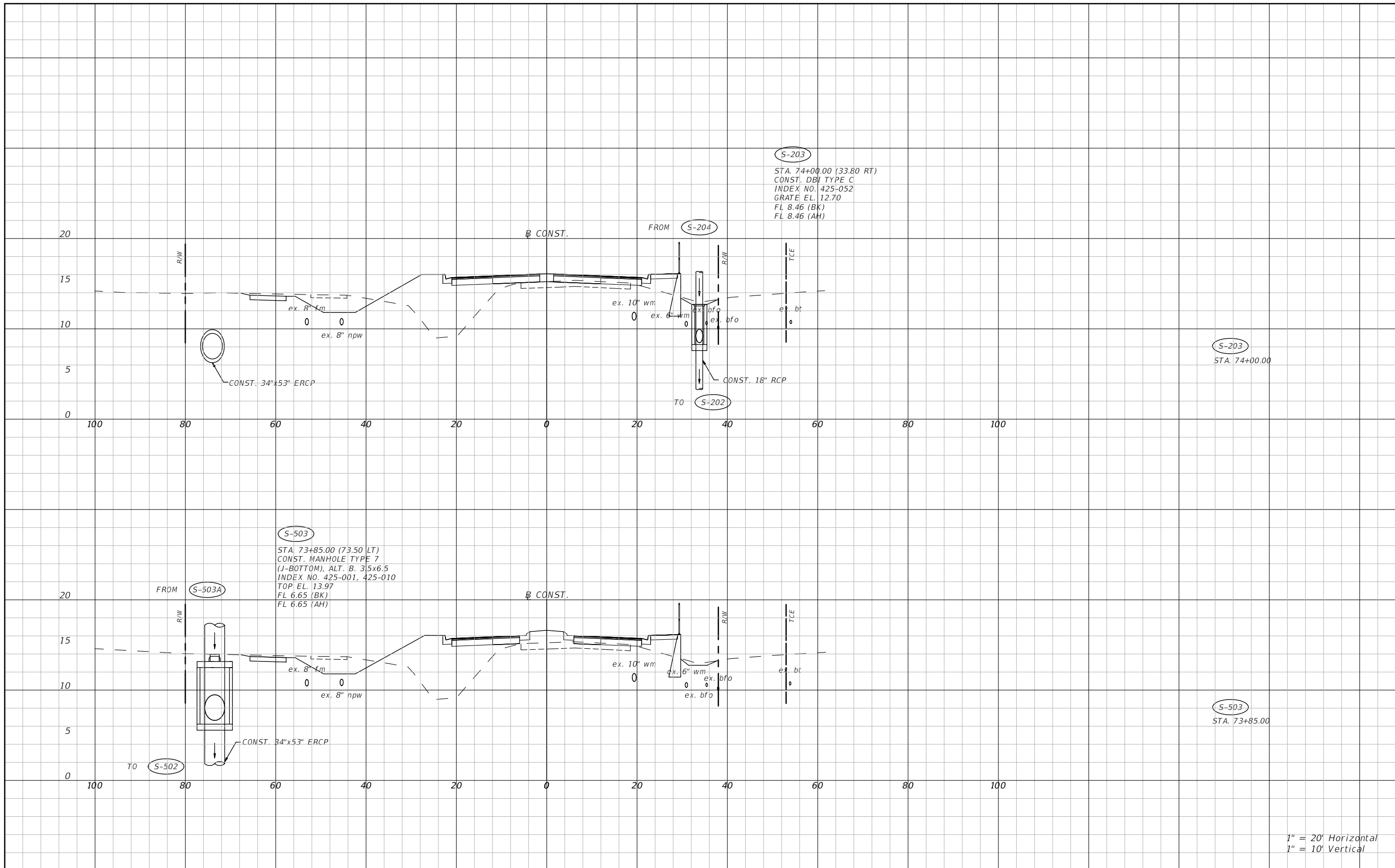
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
 94

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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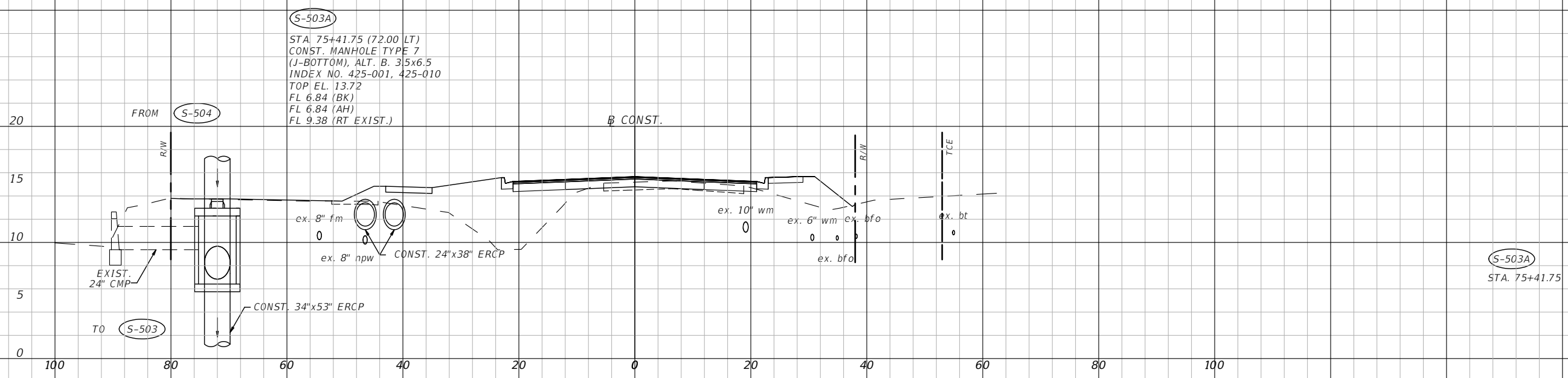
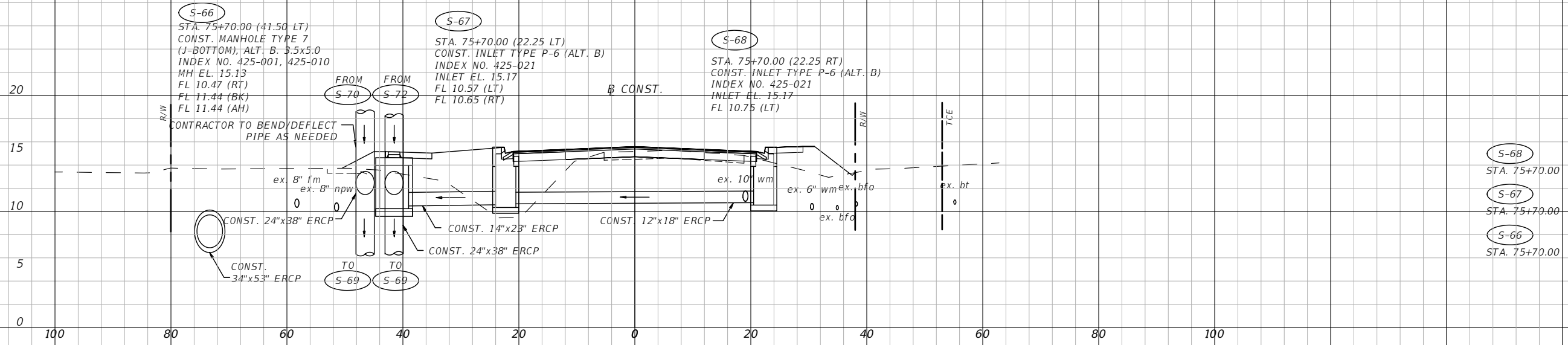
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
95

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



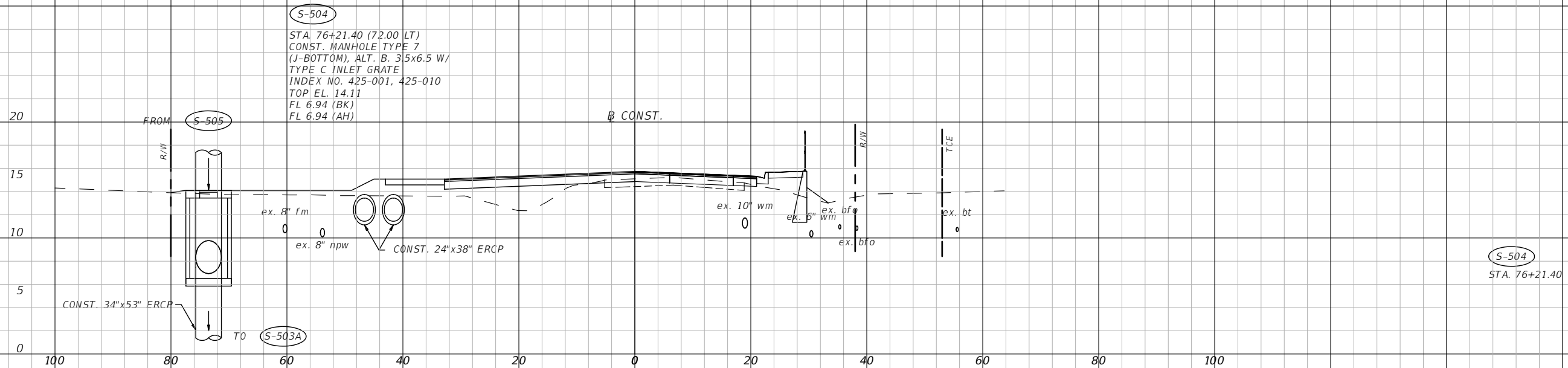
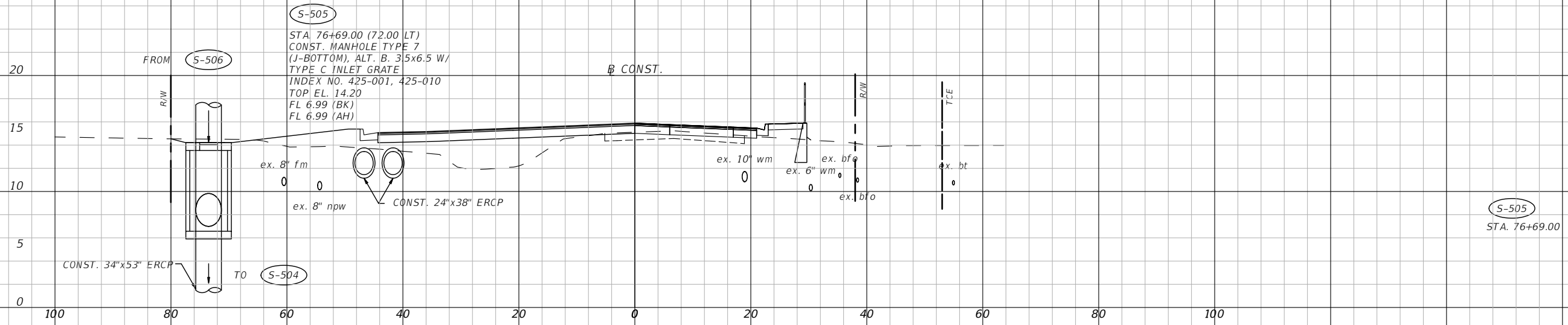
S-68
STA. 75+70.00
S-67
STA. 75+70.00
S-66
STA. 75+70.00

S-503A
STA. 75+41.75

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	CONTRACT NO.	
---	---	---	---	LITTLETON ROAD	LEE	CN190114	96

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



1" = 20' Horizontal
 1" = 10' Vertical

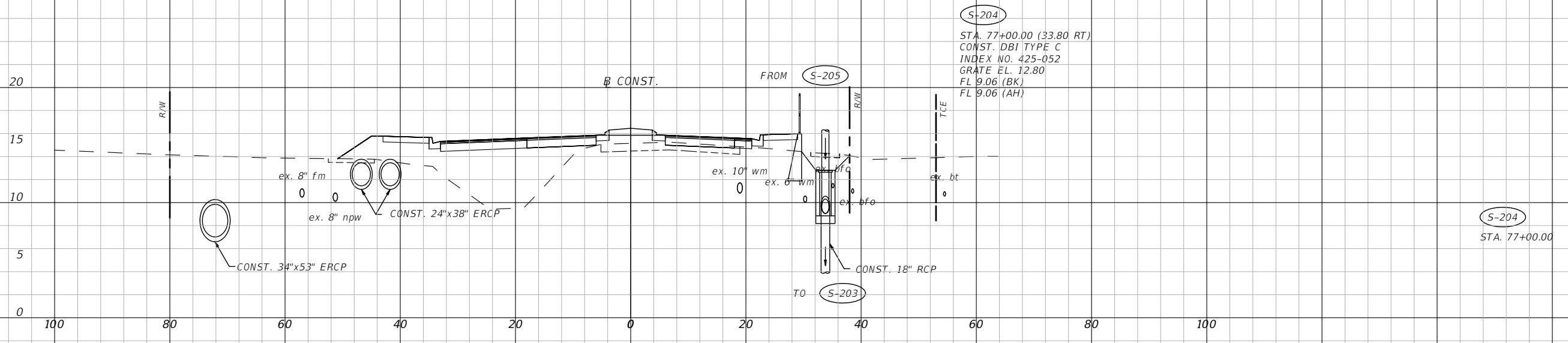
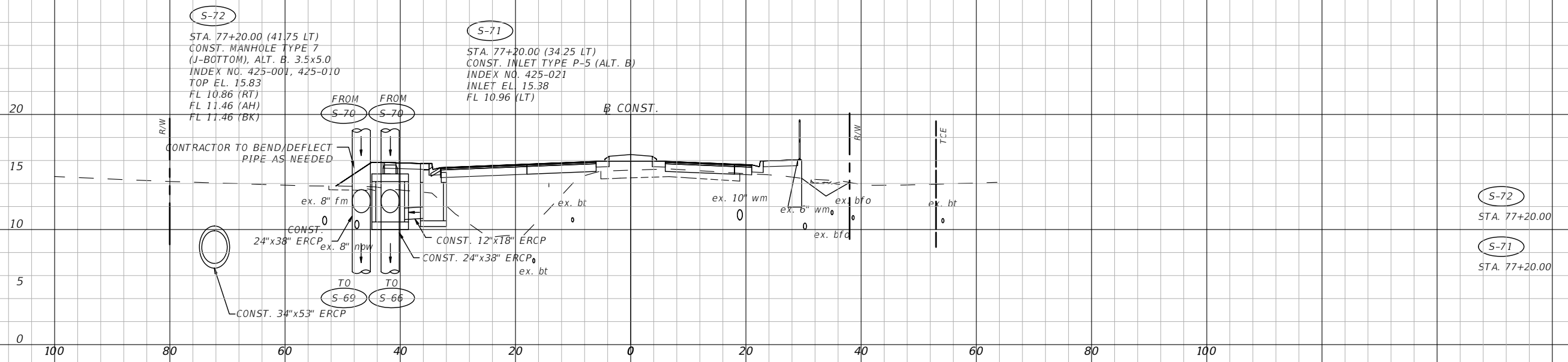
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY		
DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES
 SHEET NO. 97

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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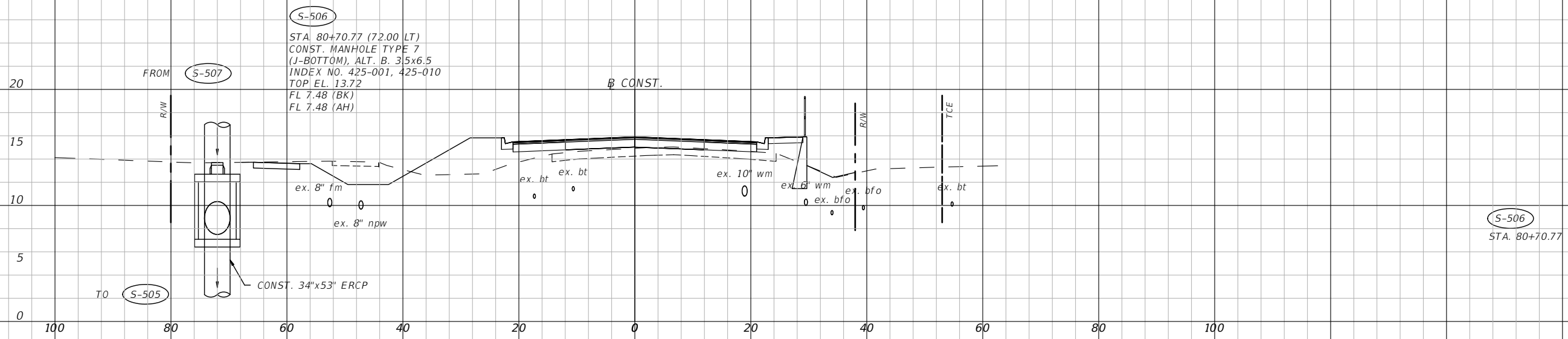
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

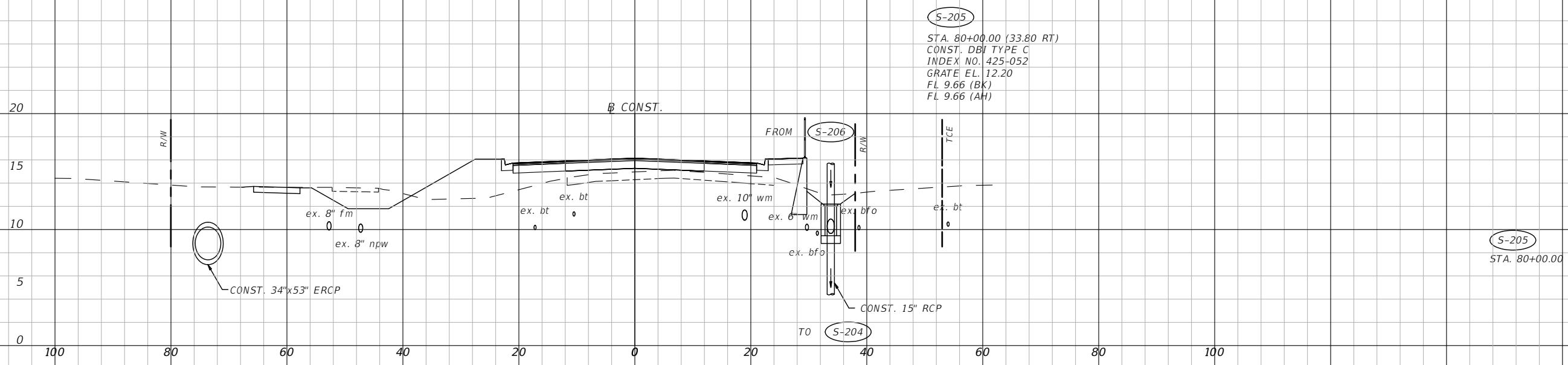
SHEET NO.
98

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



S-506
 STA. 80+70.77 (72.00 LT)
 CONST. MANHOLE TYPE 7
 (J-BOTTOM), ALT. B. 3.5x6.5
 INDEX NO. 425-001, 425-010
 TOP EL. 13.72
 FL 7.48 (BK)
 FL 7.48 (AH)

S-506
 STA. 80+70.77



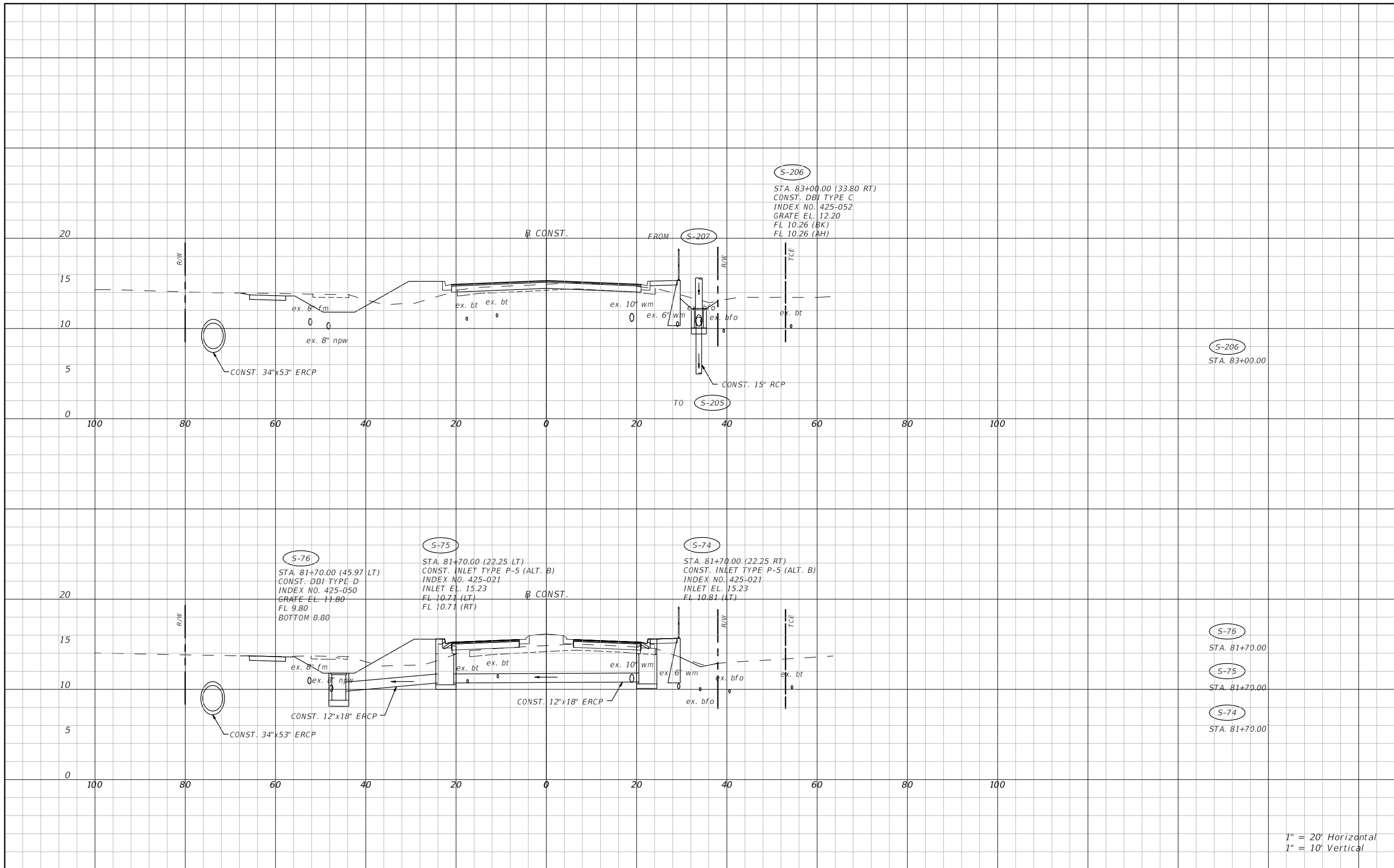
S-205
 STA. 80+00.00 (33.80 RT)
 CONST. DBI TYPE C
 INDEX NO. 425-052
 GRATE EL. 12.20
 FL 9.66 (BK)
 FL 9.66 (AH)

S-205
 STA. 80+00.00

1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	CONTRACT NO.	
---	---			LITTLETON ROAD	LEE	CN190114	99

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



S-206
STA. 83+00.00

S-76
STA. 81+70.00

S-75
STA. 81+70.00

S-74
STA. 81+70.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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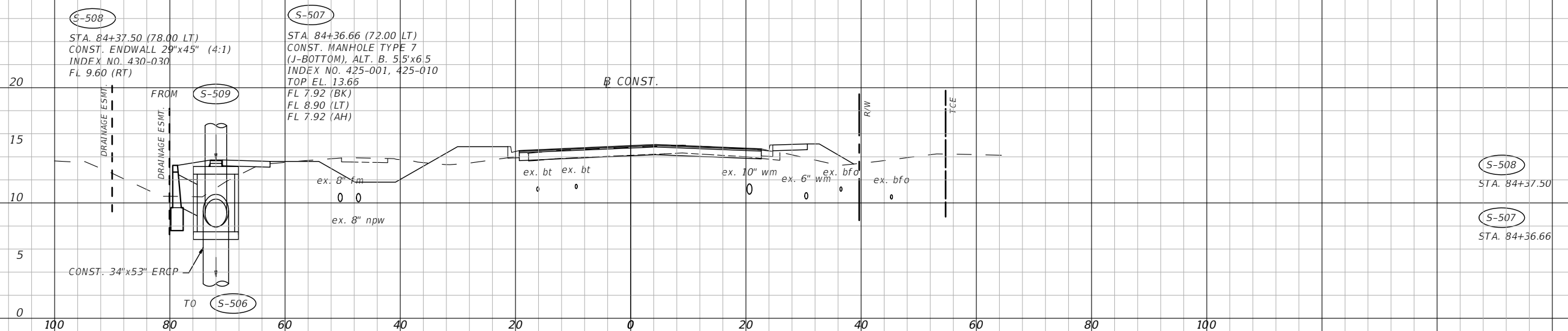
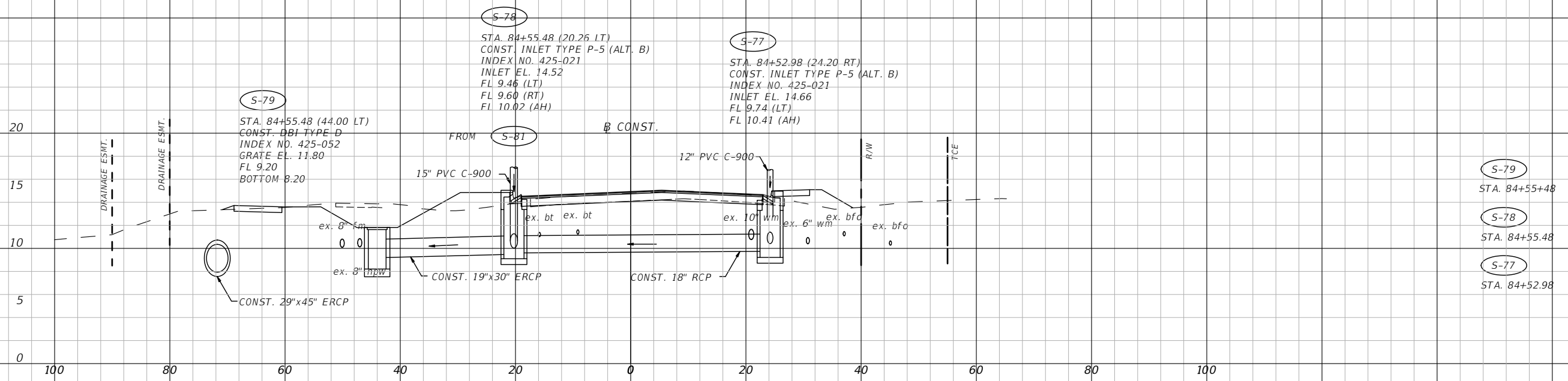
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
100

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



S-79
STA. 84+55+48

S-78
STA. 84+55.48

S-77
STA. 84+52.98

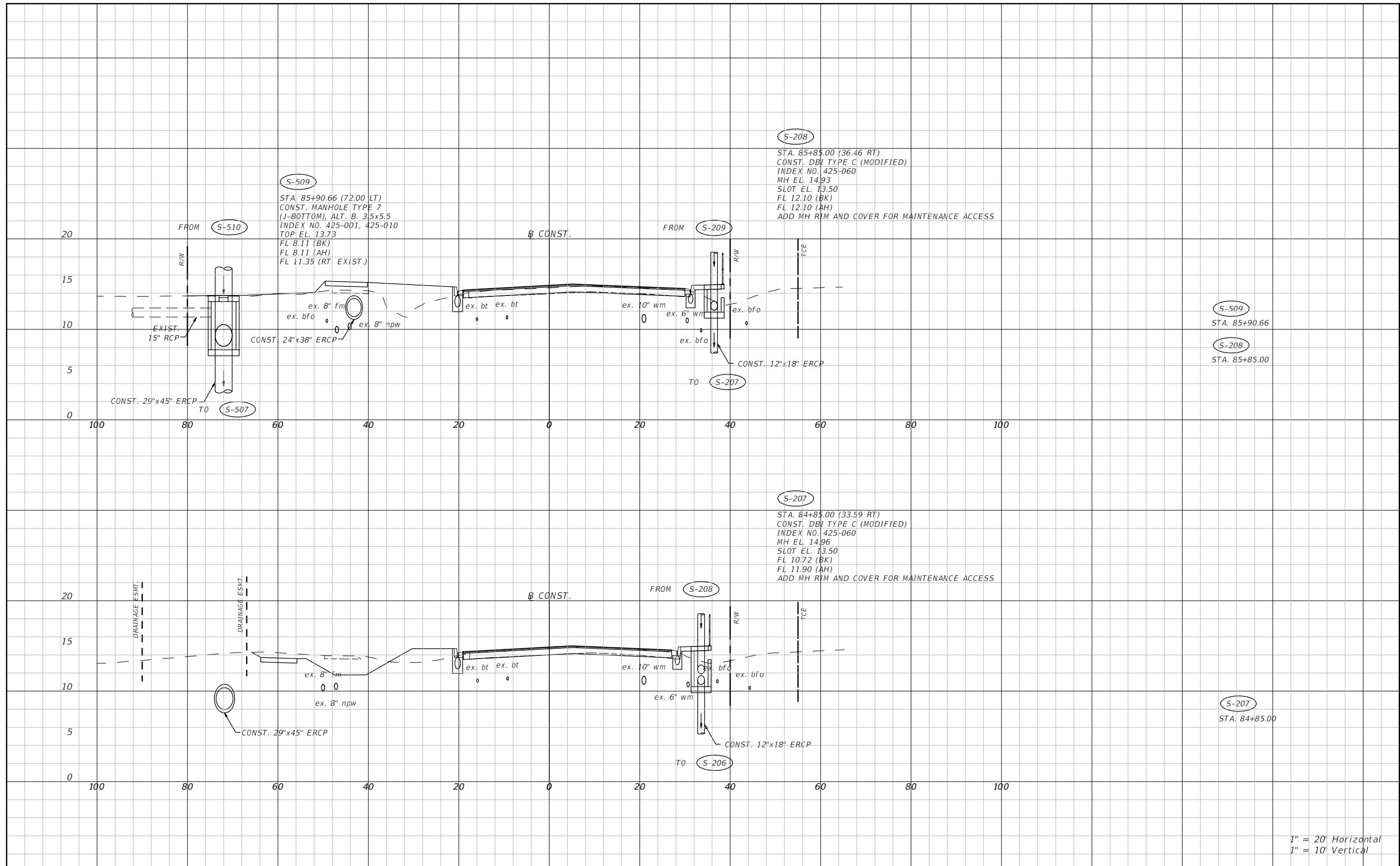
S-508
STA. 84+37.50

S-507
STA. 84+36.66

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 101
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---	---	---	LITTLETON ROAD	LEE	CN190114		

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



S-509
STA. 85+90.66

S-208
STA. 85+85.00

S-207
STA. 84+85.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

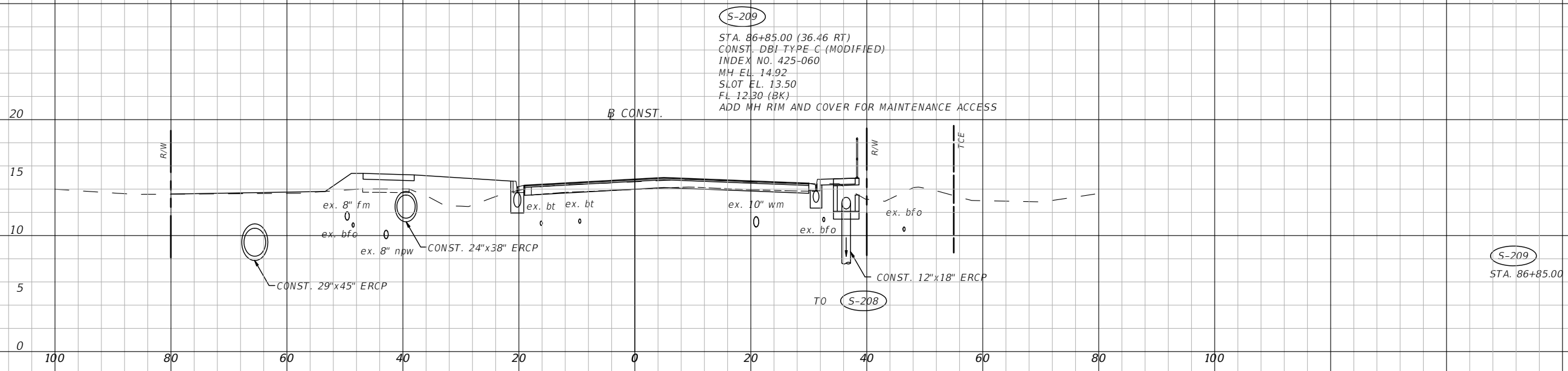
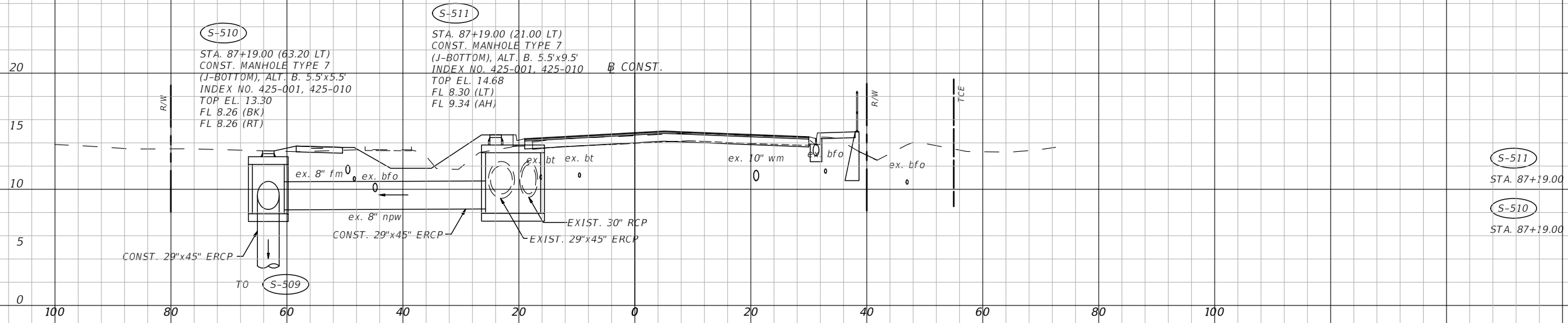
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
102

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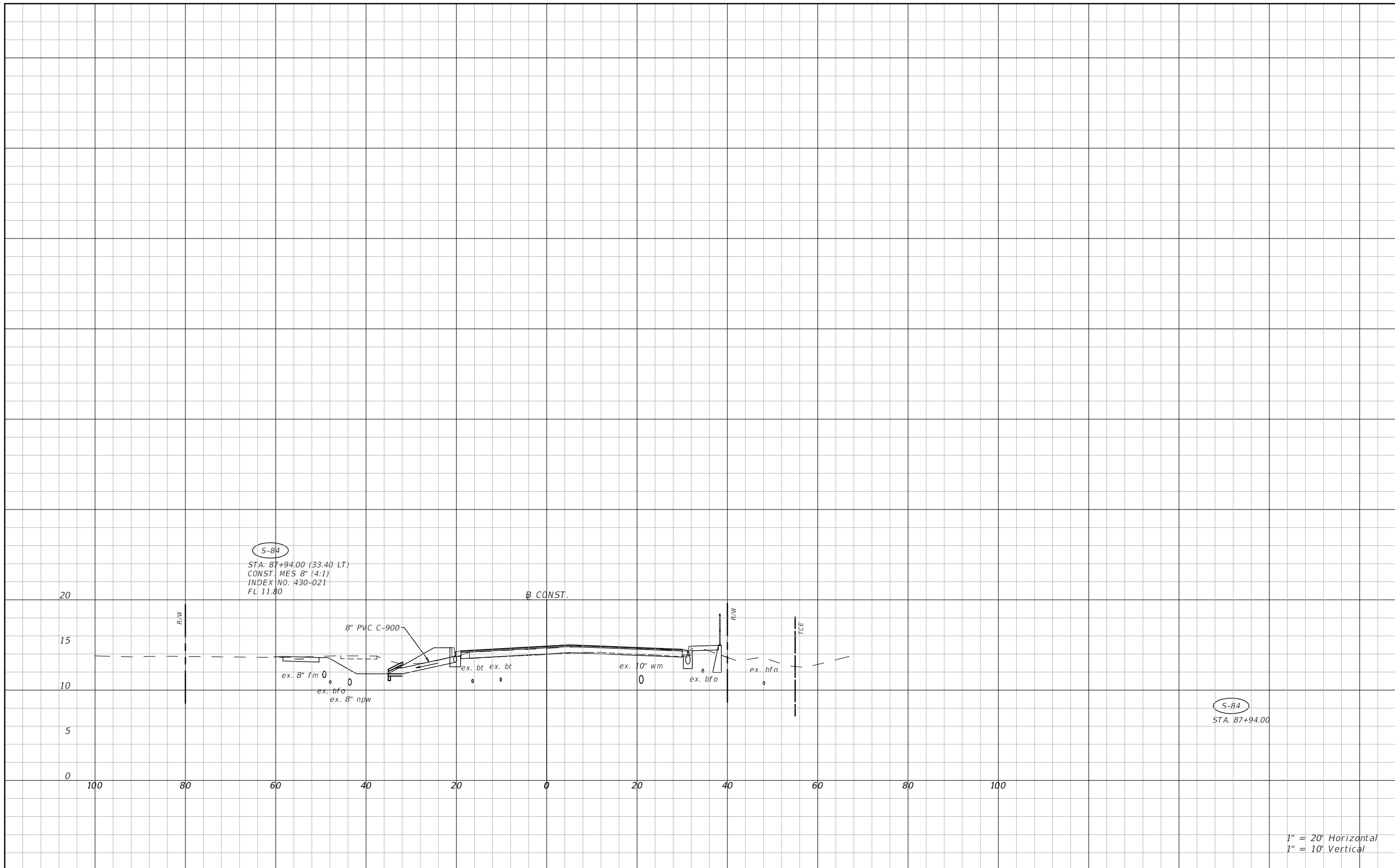


1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 103
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
---	---			LITTLETON ROAD	LEE	CN190114		

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S-84
 STA. 87+94.00 (33.40 LT)
 CONST. MES 8" (4:1)
 INDEX NO. 430-021
 FL 11.80

B CONST.

S-84
 STA. 87+94.00

1" = 20' Horizontal
 1" = 10' Vertical

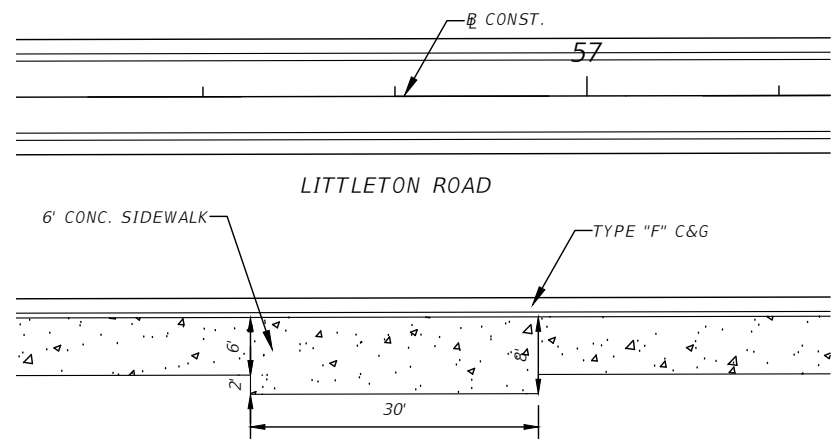
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
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 1821 VICTORIA AVE
 FORT MYERS, FL 33901

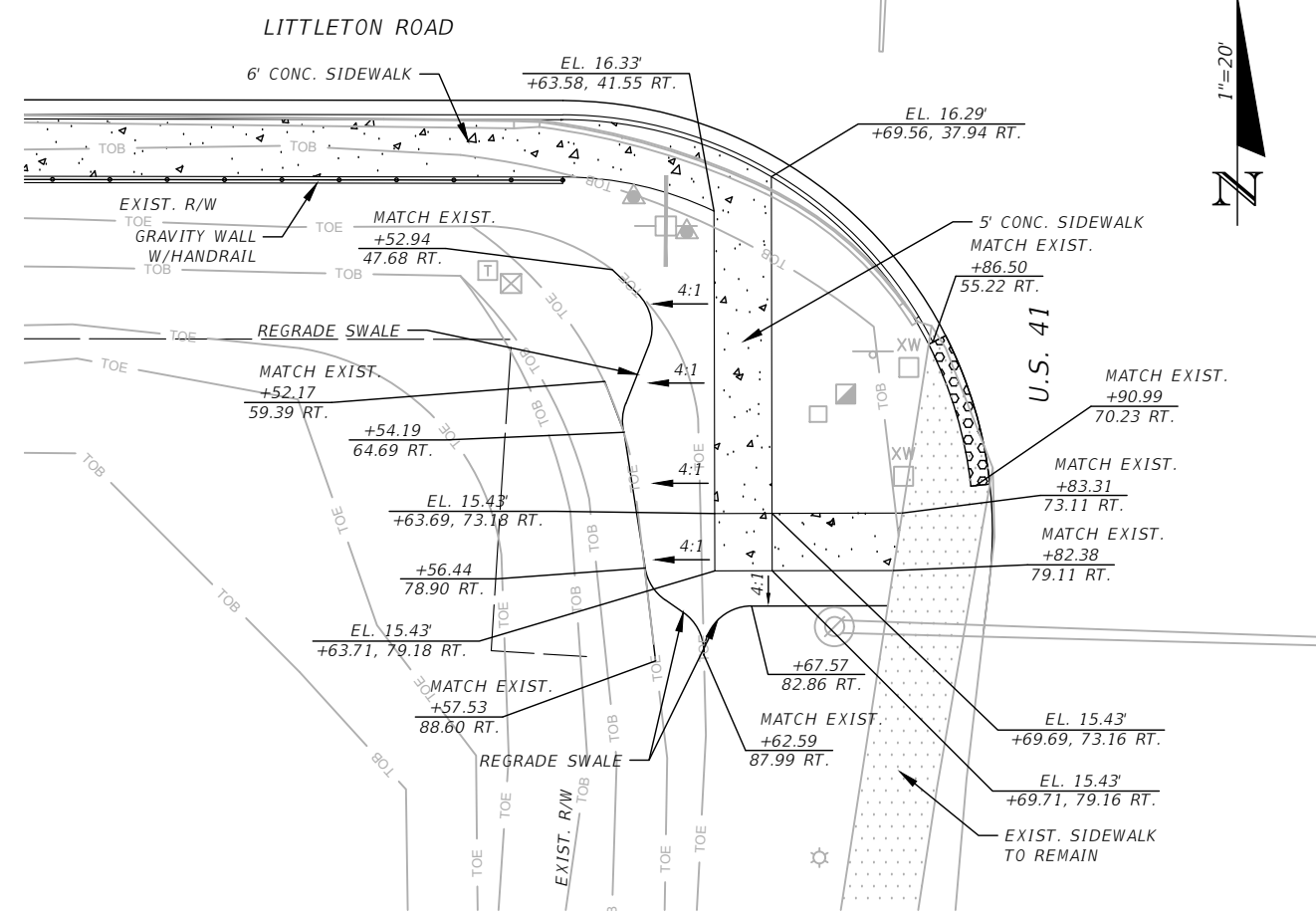
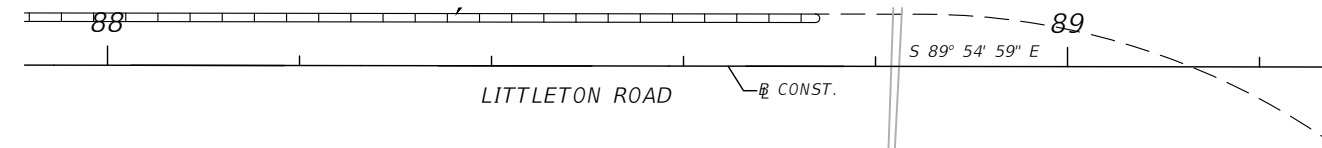
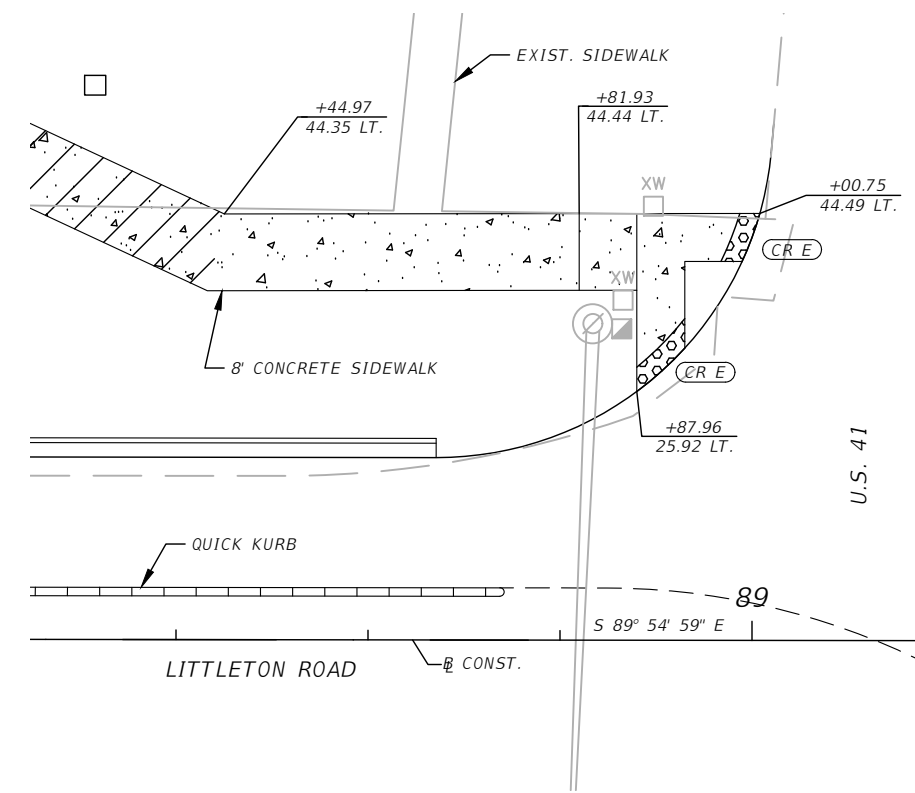
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

DRAINAGE STRUCTURES

SHEET NO.
 104



BUS PAD DETAIL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

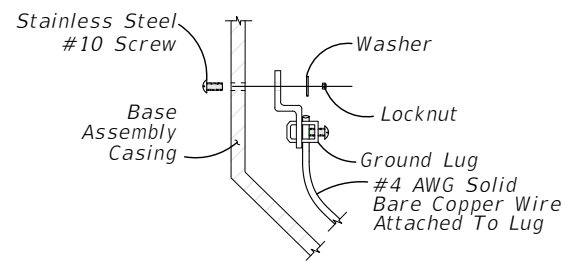
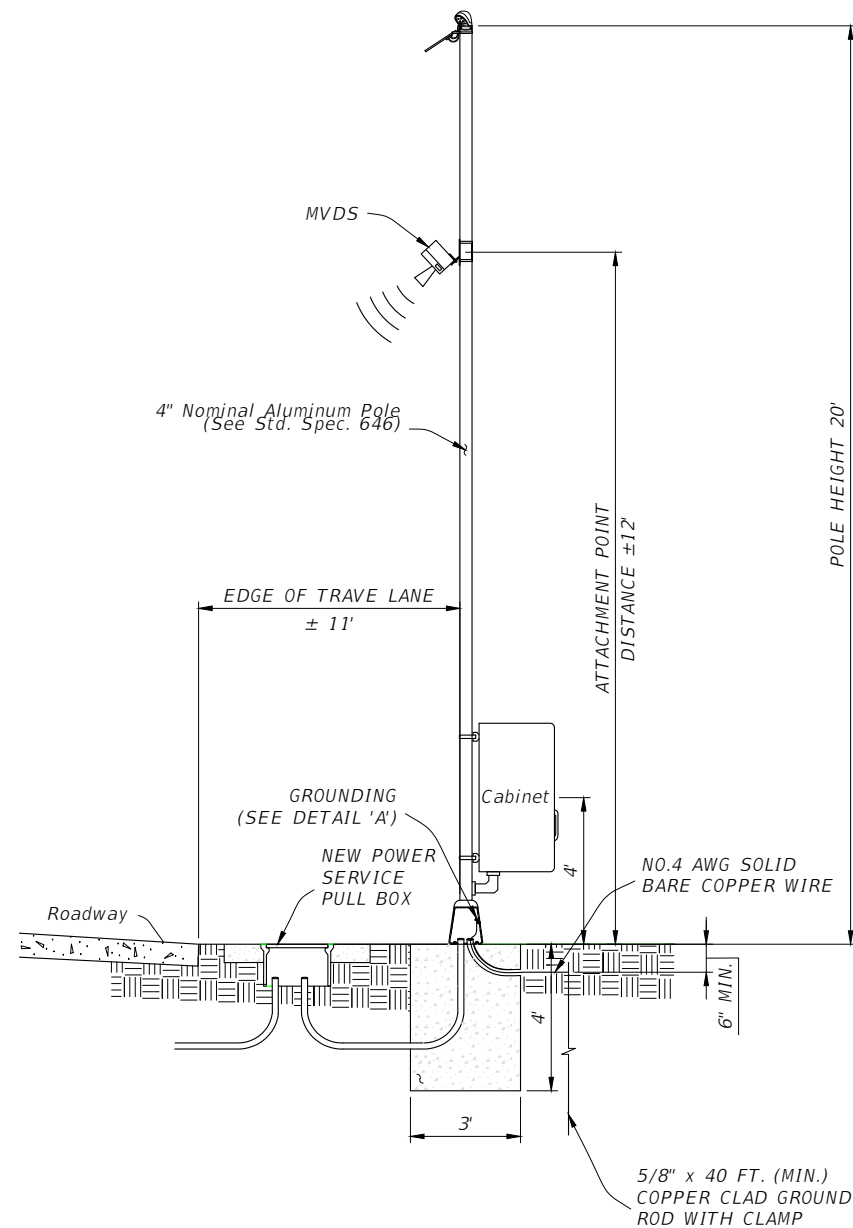
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1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SPECIAL DETAILS

SHEET NO.
105

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DETAIL 'A'

MDVS PAY ITEMS			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
0630 2 11	CONDUIT, F&I, TRAFFIC COUNTY, OPEN TRENCH	LF	10
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	70
0635 2 11	PULL & SPLICE BOX, F&I, 24"x36" COVER SIZE	EA	2
0639 1 122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1
0639 2 1	ELECTRICAL SERVICE WIRE, F&I	LF	100
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1
0646 2 120	ALUMINUM POLE, INDEX 17900/695-001, F&I, 20'	EA	1
0660 3 11	VEHICLE DETECTION SYSTEM-MICROWAVE, F&I, CABINET EQUIPMENT	EA	1
0660 3 12	VEHICLE DETECTION SYSTEM-MICROWAVE, F&I, ABOVE GROUND EQUIPMENT	EA	1
0676 2 111	ITS CABINET, F&I, POLE MOUNT, 336, 24"Wx36"Hx20"D	EA	1
0695 8 11	TRAFFIC MONITORING SITE COMMUNICATIONS MODEM, F&I	EA	1

NOTES:

- MICROWAVE DETECTION MODEL INFORMATION SHALL BE COORDINATED WITH LEE COUNTY. COST SHALL INCLUDE THE VEHICLE DETECTOR, MOUNTING HARDWARE, AND CABINET EQUIPMENT NECESSARY FOR A COMPLETE AND ACCEPTABLE INSTALLATION.
- CONTRACTOR TO SUPPLY WAVETRONIX SMARTSENSE HD ASSEMBLY FOR COUNT STATION. INCLUDED IN THE ASSEMBLY IS THE LICENSE FOR THE COMMAND COLLECTOR, LICENSE TO BE SUPPLIED IN LEE COUNTY'S NAME.
- ALL TRAFFIC COUNT STATION EQUIPMENT TO MEET LEE COUNTY SPECIFICATIONS. CONTRACTOR TO CONFIRM EQUIPMENT REQUIREMENTS PRIOR TO ORDERING THE EQUIPMENT.
- CONTRACTOR TO SCHEDULE A FIELD REVIEW WITH LEE COUNTY DOT OPERATIONS TO DEMONSTRATE THE COUNT STATION IS FULLY FUNCTIONAL AND FUNCTIONS TO LCDOT SATISFACTION, PRIOR TO ACCEPTANCE BY THE COUNTY.
- FOR ADDITIONAL DESIGN CRITERIA, INCLUDING GROUNDING, REFER TO FDOT STANDARD PLANS INDEX NO. 695-001.
- THE INITIAL MVDS HEIGHT BASED ON THE MANUFACTURER'S REQUIREMENTS. FIELD ADJUSTMENT MAY BE REQUIRED.
- CONTRACTOR TO SUPPLY WAVETRONIX SMARTSENSOR HD ASSEMBLY FOR COUNT STATION. INCLUDED IN THE ASSEMBLY IS THE LICENSE FOR THE COMMAND COLLECTOR. LICENSE TO BE SUPPLIED IN LEE COUNTY'S NAME.
- ALL TRAFFIC COUNT STATION EQUIPMENT TO MEET LEE COUNTY SPECIFICATIONS. CONTRACTOR TO CONFIRM EQUIPMENT REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.
- CONTRACTOR TO SCHEDULE A FIELD REVIEW WITH LEE COUNTY DOT OPERATIONS TO DEMONSTRATE THE COUNT SYSTEM IS FULLY FUNCTIONAL AND FUNCTIONS TO LCDOT SATISFACTION PRIOR TO ACCEPTANCE BY COUNTY.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

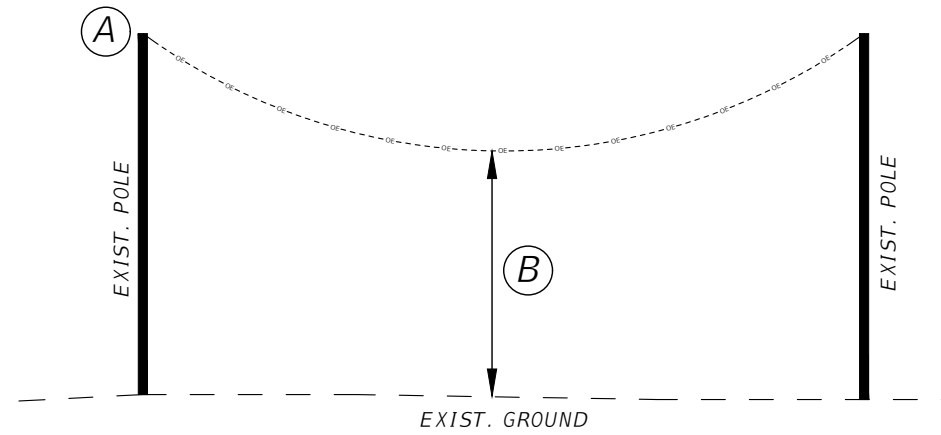
TYPICAL MVDS DETAIL

SHEET NO.
106

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NOTES

1. CONTRACTOR IS ADVISED THAT WORK WILL BE REQUIRED UNDER OVERHEAD POWER LINES. CONTRACTOR SHALL CONFORM TO THE APPLICABLE OSHA RULES WHEN WORKING UNDER OR ADJACENT TO THE POWER LINES. NO SEPARATE PAYMENT WILL BE MADE FOR COMPLYING WITH THE OSHA REQUIREMENTS.
2. CONTRACTOR SHALL BE REQUIRED TO SHORE ANY PORTION OF A TRENCH THAT IS WITHIN 8 FEET OF THE FACE OF A TRANSMISSION POWER POLE. SHORING SHALL EXTEND 10 FEET TO EACH SIDE OF THE TRANSMISSION POWER POLE. SHORING COSTS SHALL BE INCORPORATED INTO THE AFFECTED PIPING AND NO SEPARATE PAYMENT SHALL BE MADE.
3. THE FOLLOWING TABLE IDENTIFIES THE LOWEST MEMBER DISTANCE ABOVE THE EXISTING GRADE FOR THE TRANSMISSION POWER LINES FROM POLE TO POLE. ELEVATIONS/DISTANCES PROVIDED BY LCEC ARE BASED UPON THE MAXIMUM EXPECTED SAG IN THE POWER LINE. CONTRACTOR SHALL MAINTAIN THE REQUIRED OSHA HORIZONTAL AND VERTICAL DISTANCES FROM THE POWER LINES AT ALL TIMES.
4. STATION AND OFFSET TO POLES ARE NOTED IN TABLE. CONTRACTOR NOTE CONDUCTOR WIRES ARE OFFSET FROM THE POLES. CONTRACTOR TO CONFIRM CONDUCTOR LOCATIONS PRIOR TO WORKING ADJACENT TO LCEC POWER LINES.
5. GUY WIRES FOR POWER POLES THAT ARE TO BE RELOCATED WILL BE RELOCATED BY LCEC PERSONNEL/CONTRACTORS. CONTRACTOR TO COORDINATE WITH LCEC AS REQUIRED TO CONSTRUCT PROJECT FEATURES.

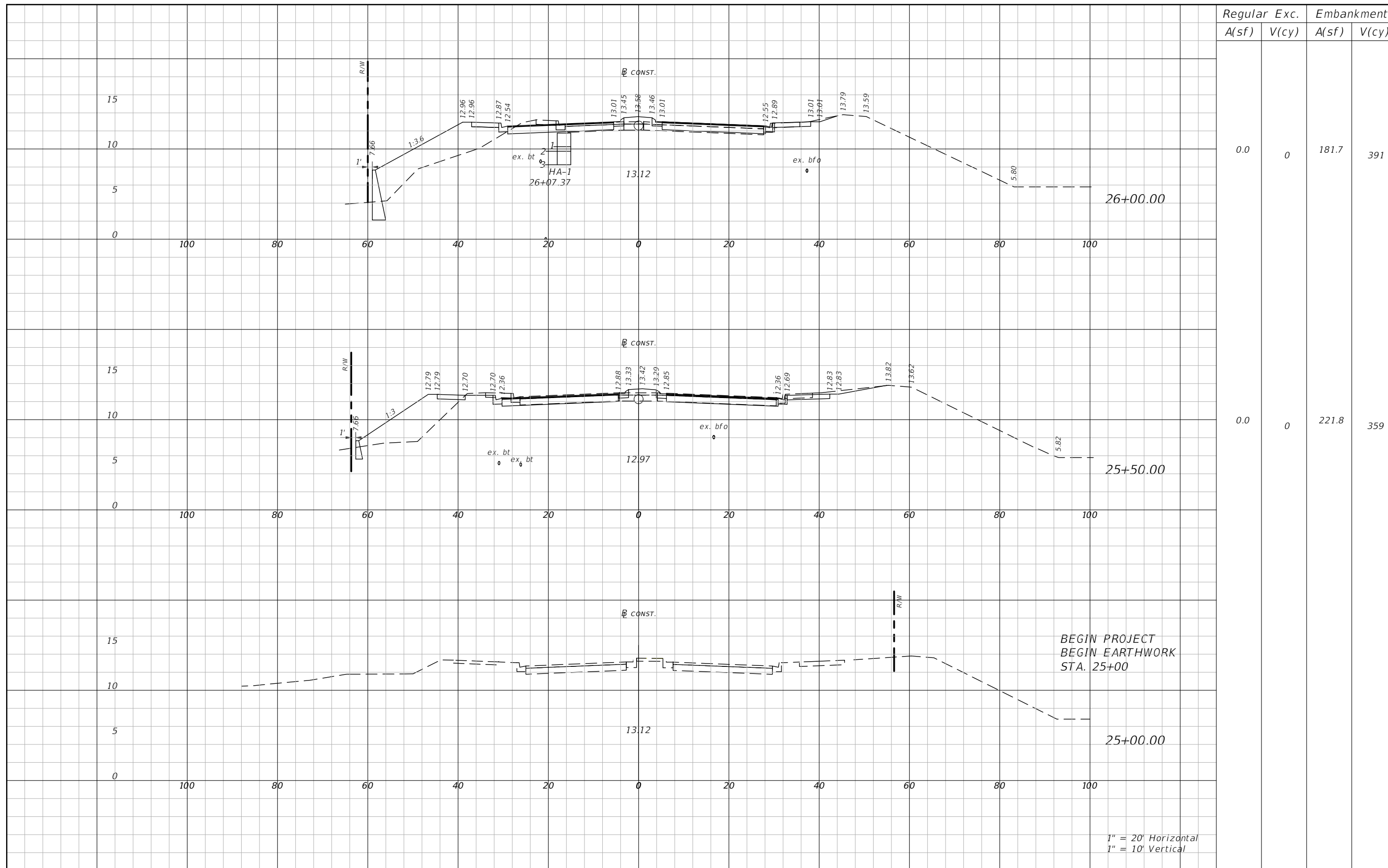


SUMMARY OF LCEC TRANSMISSION POLES

STA.	OFFSET	POLE #	TO	STA.	OFFSET	POLE #	GUY WIRE POLE ATTACHMENT ELEVATION (A)	BOTTOM OF SAG ELEVATION	DISTANCE FROM GROUND TO SAG (B)
25+49.13	73.94' L	2A-0004	to	29+12.92	39.35' L	2A-003	56.93'	44.66'	29.33'
29+12.92	39.35' L	2A-003	to	32+82.34	39.96' L	2A-002	48.33'	41.75'	27.75'
32+82.34	39.96' L	2A-002	to	35+96.06	66.64' L	2A-001A	48.33'	44.00'	29.41'
37+32.52	42.77' L	3A-001	to	41+45.34	59.06' L	3A-002	-	43.25'	28.91'
41+45.34	59.06' L	3A-002	to	45+66.70	61.82' L	3A-003	48.23'	39.66'	24.25'
45+66.70	61.82' L	3A-003	to	49+86.65	62.16' L	3A-004	49.63'	40.16'	24.83'
49+86.65	62.16' L	3A-004	to	54+06.62	61.83' L	3A-005	49.23'	40.00'	24.50'
54+06.62	61.83' L	3A-005	to	55+27.46	62.73' L	3A-006	48.93'	39.66'	24.50'
55+27.46	62.73' L	3A-006	to	62+46.80	62.69L	3A-007	48.53'	39.58'	25.25'
62+46.80	62.69L	3A-007	to	66+46.74	64.61L	3A-008	48.83'	41.00'	25.83'
66+46.74	64.61L	3A-008	to	70+86.53	60.40' L	3A-009	49.43'	38.83'	23.75'
70+86.53	60.40' L	3A-009	to	75+26.64	59.77' L	3A-010	48.63'	38.83'	24.25'
75+26.64	59.77' L	3A-010	to	79+66.52	59.68' L	3A-011	49.03'	38.66'	23.66'
79+66.52	59.68' L	3A-011	to	84+42.64	58.31' L	3A-012	48.03'	38.83'	24.41'
84+42.64	58.31' L	3A-012	to	88+31.50	57.74' L	3A-013	53.53'	46.91'	30.58'
88+31.50	57.74' L	3A-013	to	90+61.33	70.14' L	3A-014	55.33'	54.58'	36.50'

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			LCEC TRANSMISSION POLE NOTES & DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		107
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

0.0	0	181.7	391
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0.0	0	221.8	359
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BEGIN PROJECT
BEGIN EARTHWORK
STA. 25+00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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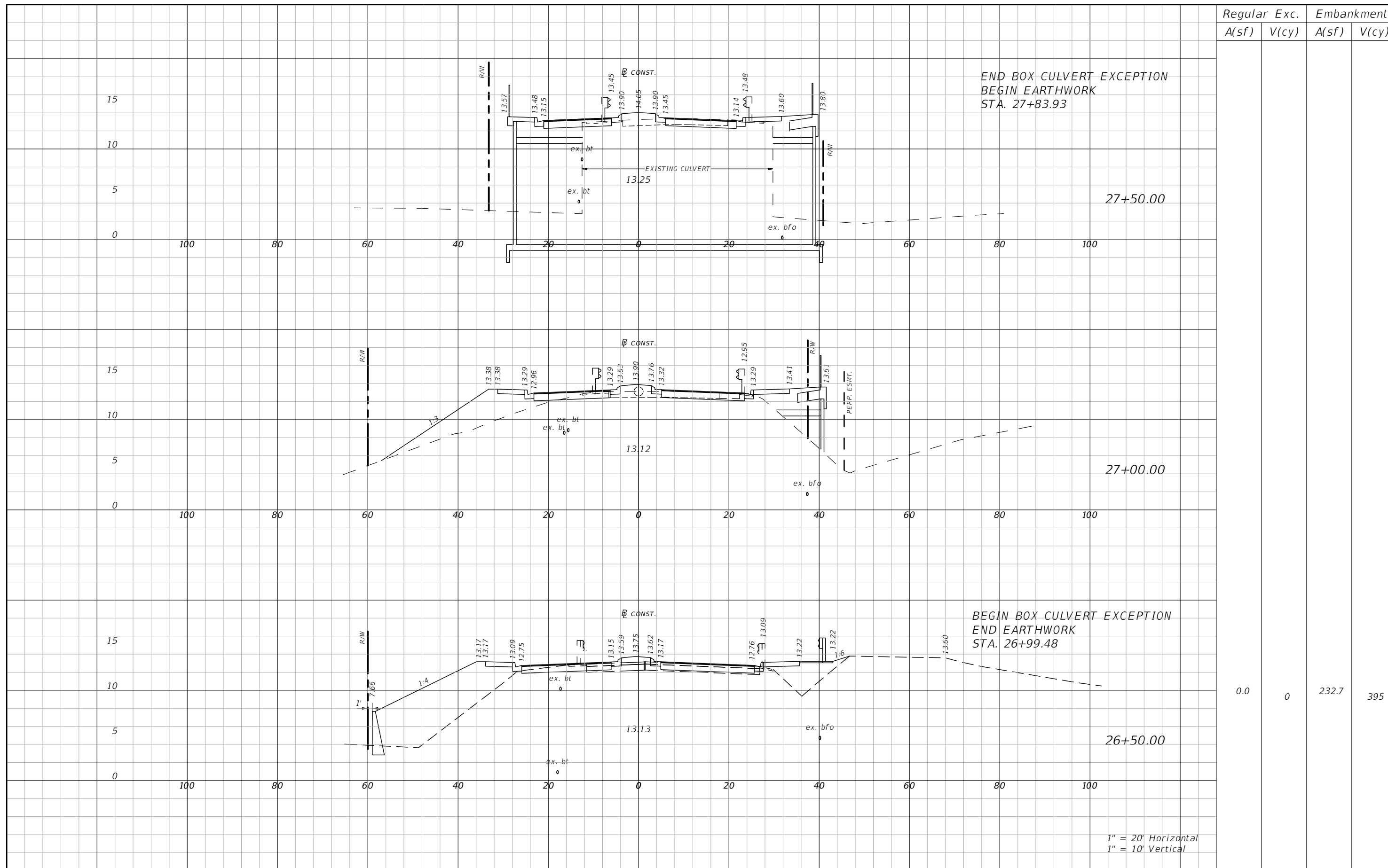
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1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
108

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END BOX CULVERT EXCEPTION
BEGIN EARTHWORK
STA. 27+83.93

27+50.00

27+00.00

BEGIN BOX CULVERT EXCEPTION
END EARTHWORK
STA. 26+99.48

26+50.00

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

0.0	0	232.7	395		
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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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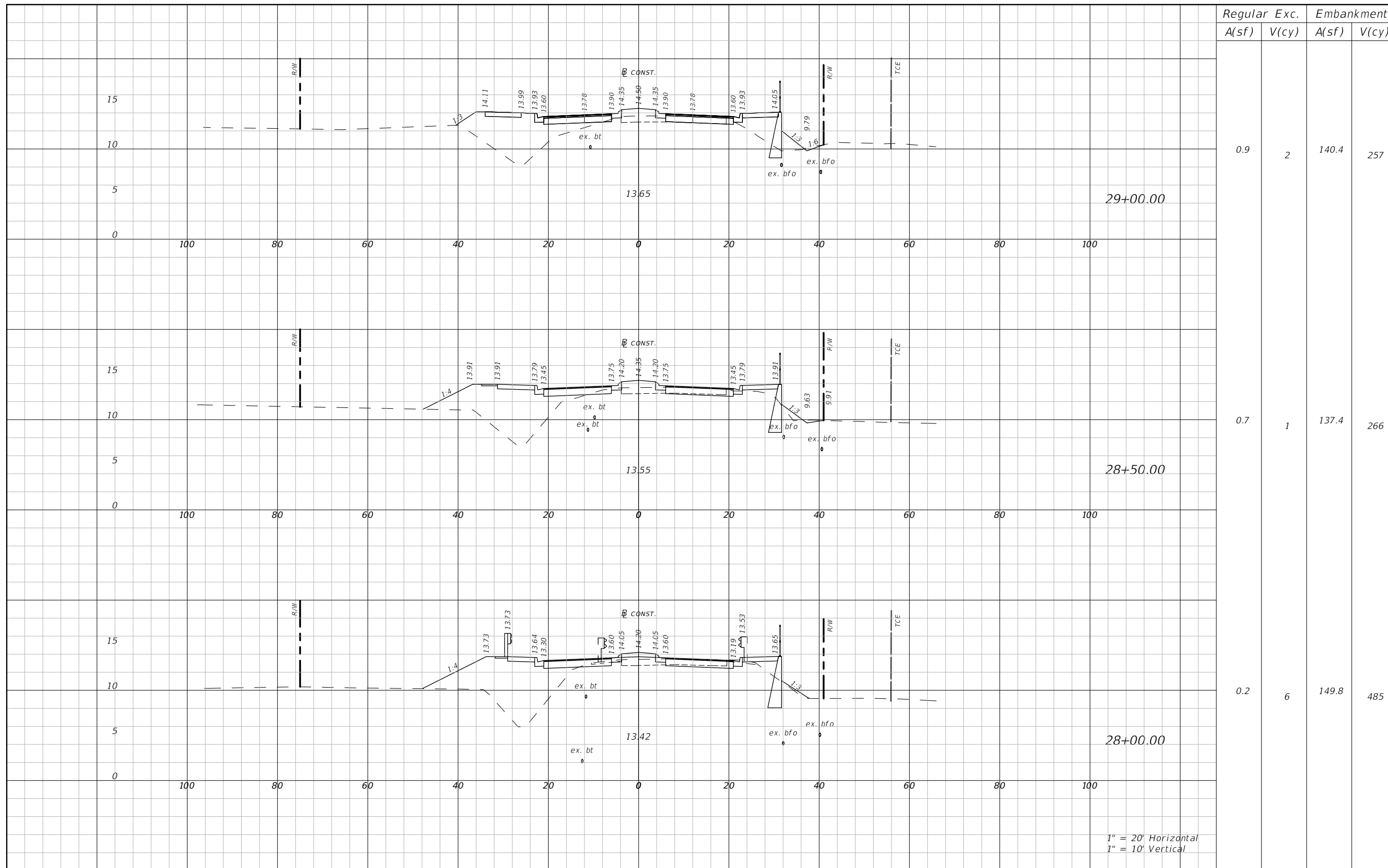
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CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
109

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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

0.9 2 140.4 257

0.7 1 137.4 266

0.2 6 149.8 485

29+00.00

28+50.00

28+00.00

1" = 20' Horizontal
1" = 10' Vertical

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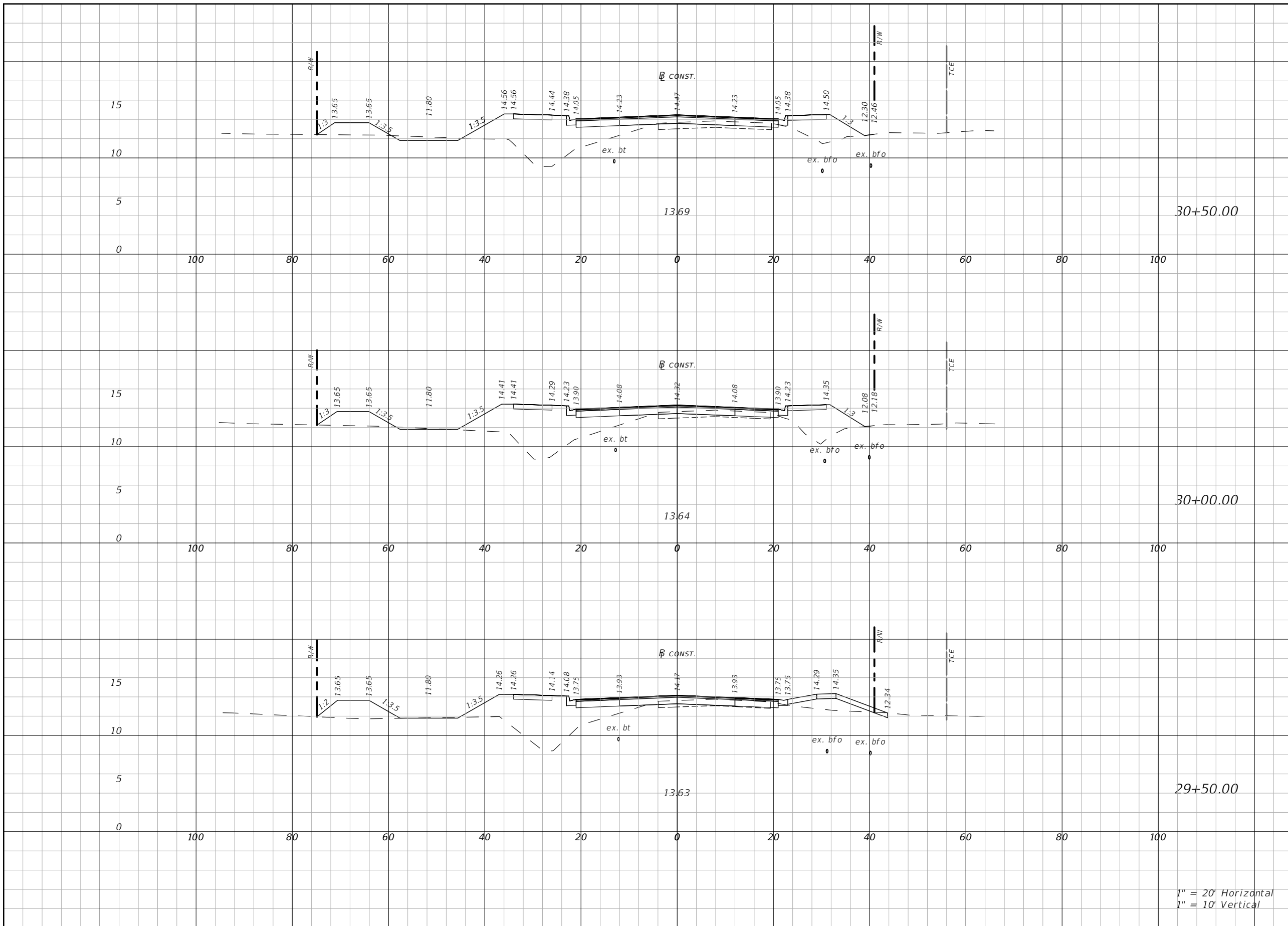
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
110



Regular	Exc.	Embankment	
		A(sf)	V(cy)
5.0	6	166.4	321
1.3	2	180.2	325
0.4	1	170.3	288

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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1821 VICTORIA AVE
FORT MYERS, FL 33901

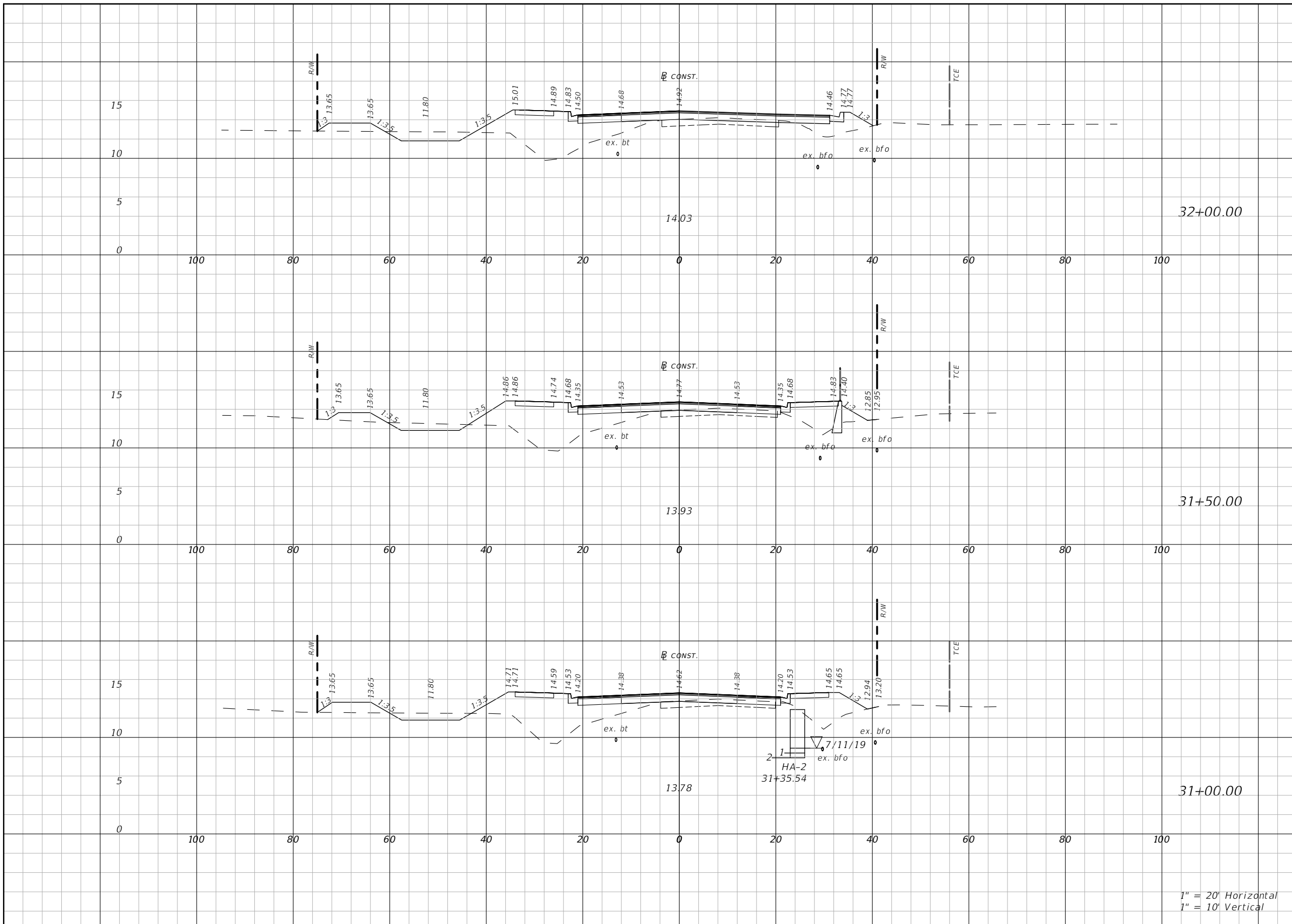
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
111

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
14.2	23	152.9	293		
10.3	19	163.2	302		
10.4	14	162.6	305		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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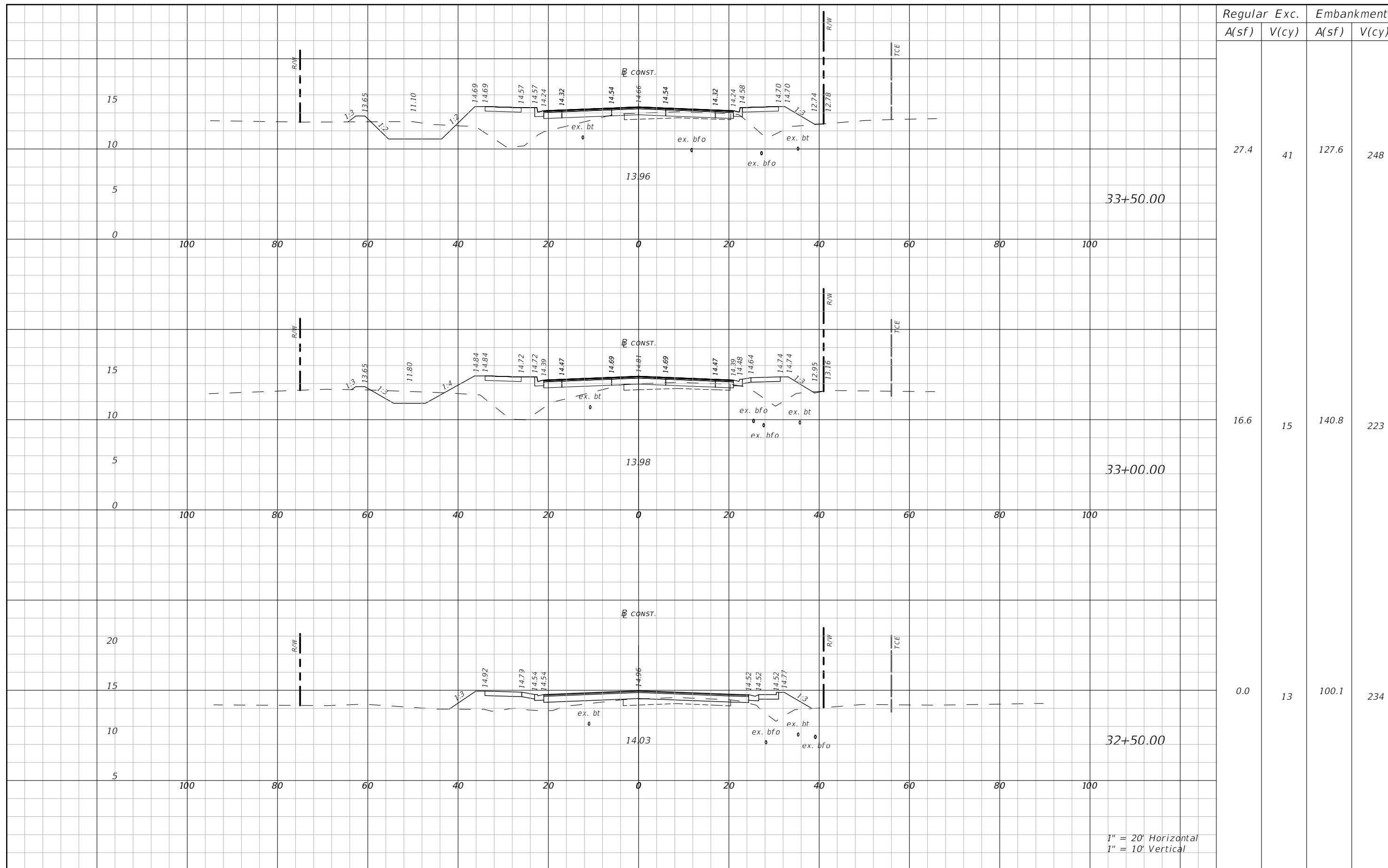
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FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
112

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

27.4	41	127.6	248		
16.6	15	140.8	223		
0.0	13	100.1	234		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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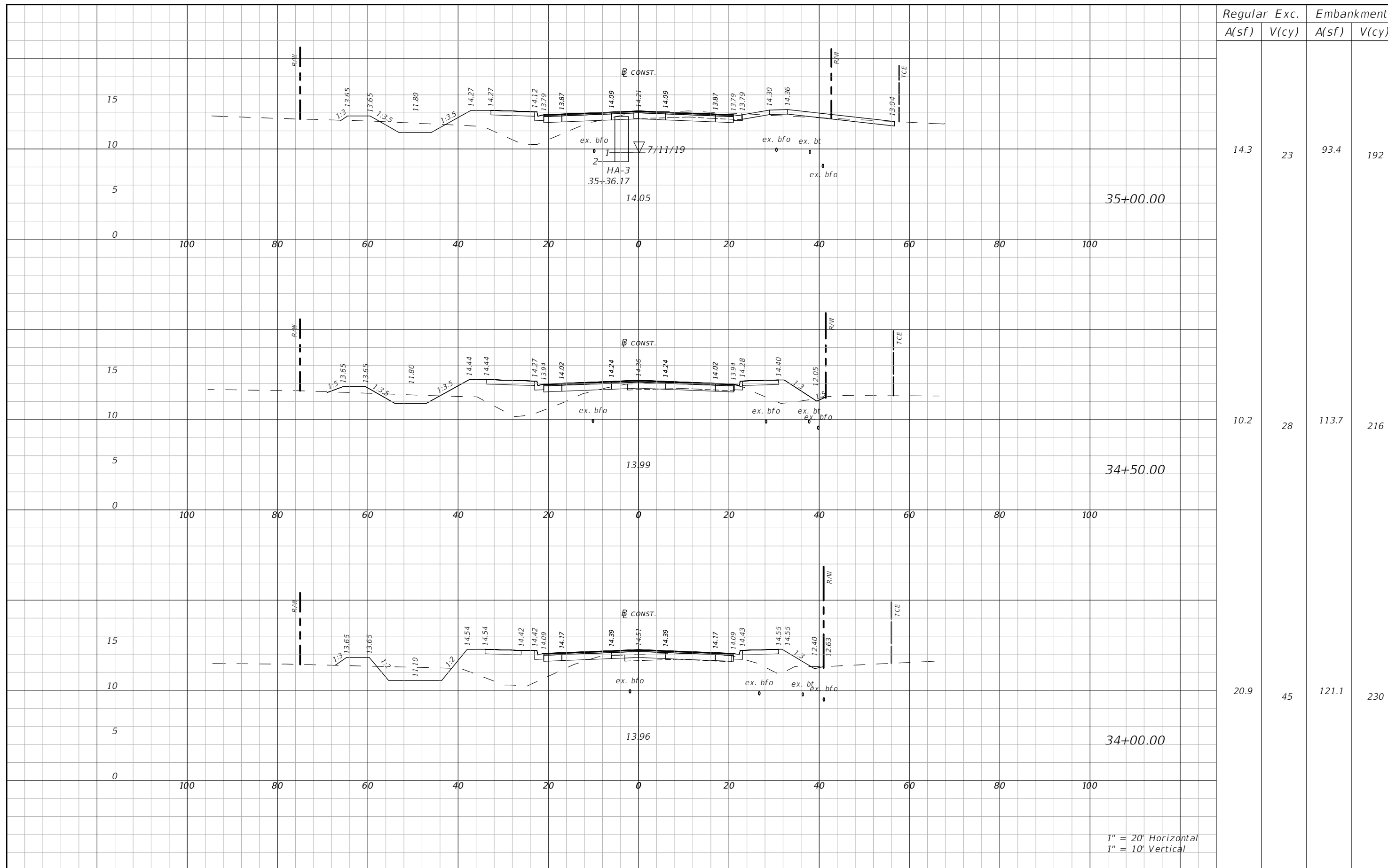
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FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
113

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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
14.3	23	93.4	192
10.2	28	113.7	216
20.9	45	121.1	230

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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FORT MYERS, FL 33901

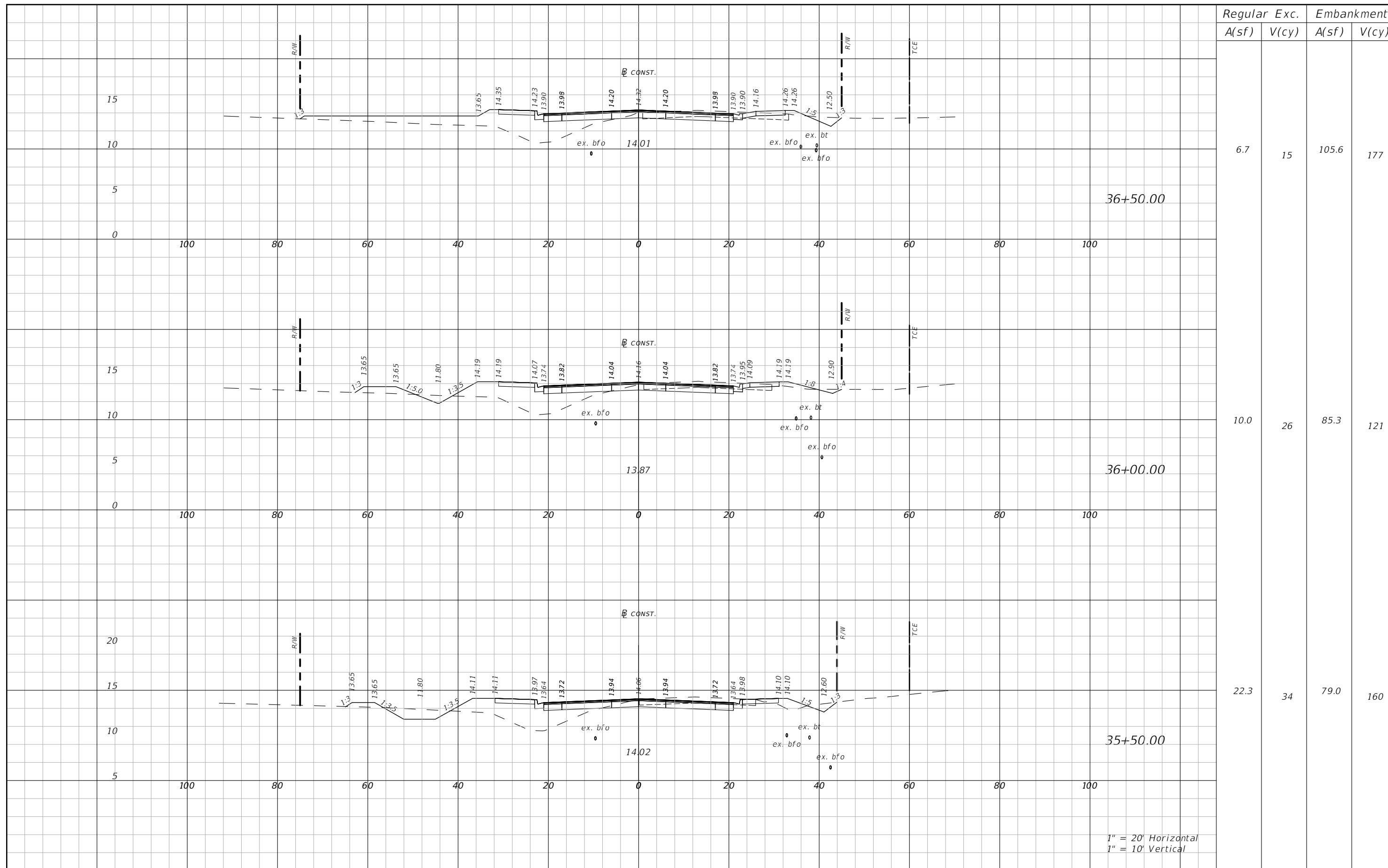
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
114

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

6.7 15 105.6 177

36+50.00

10.0 26 85.3 121

36+00.00

22.3 34 79.0 160

35+50.00

1" = 20' Horizontal
1" = 10' Vertical

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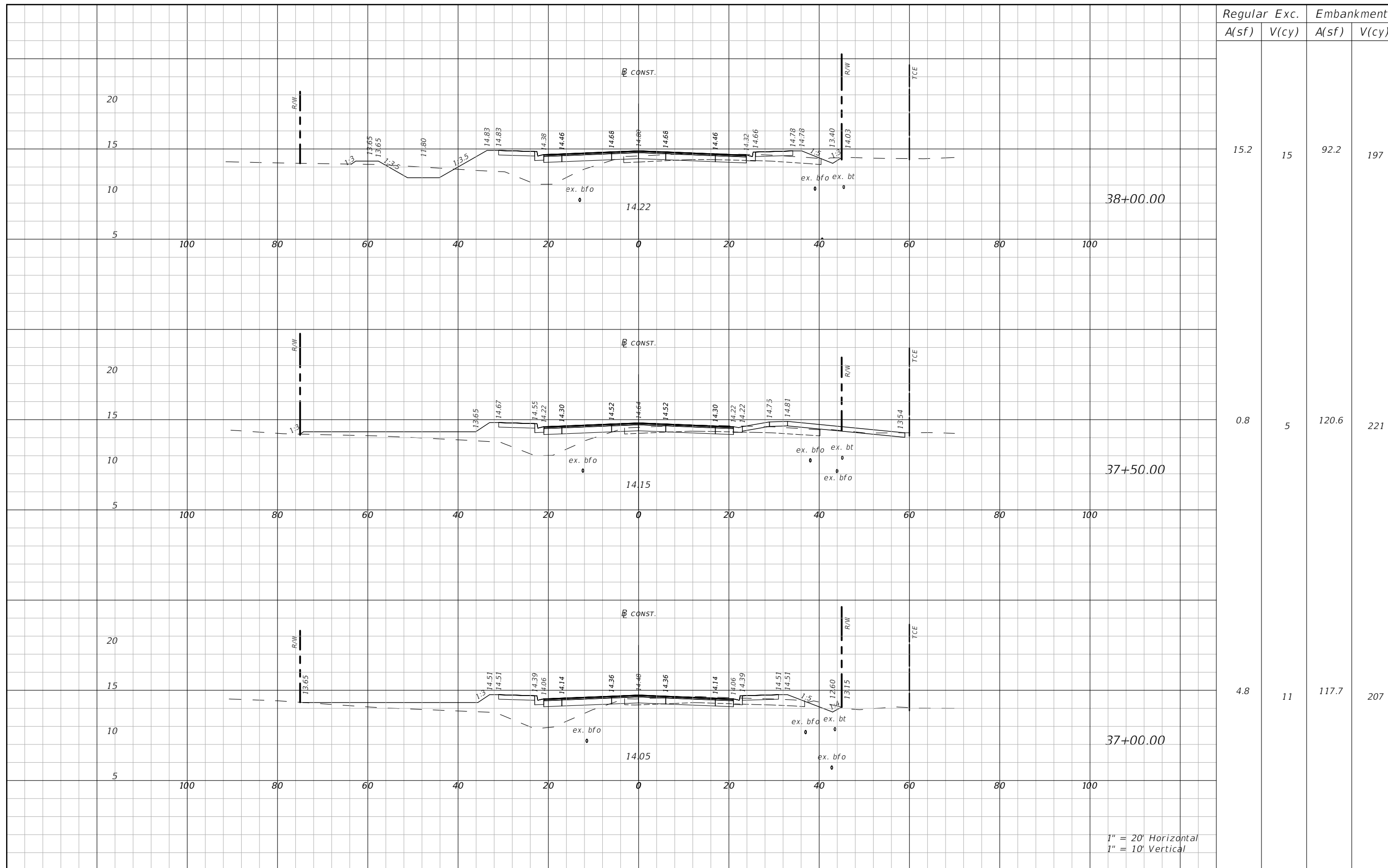
REVISIONS			
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1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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CROSS SECTIONS

SHEET NO.
115



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

15.2	15	92.2	197
------	----	------	-----

0.8	5	120.6	221
-----	---	-------	-----

4.8	11	117.7	207
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1" = 20' Horizontal
1" = 10' Vertical

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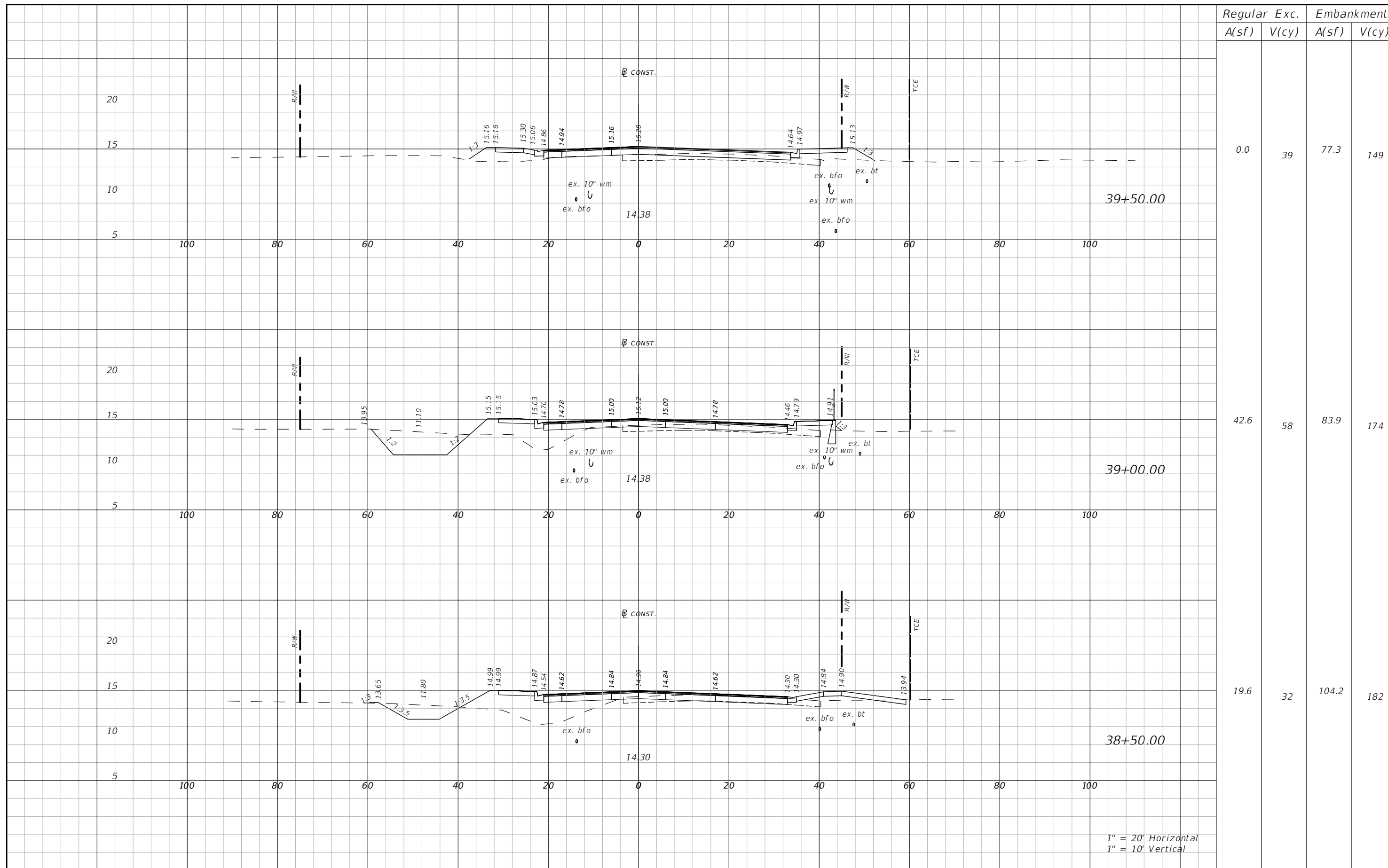
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FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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CROSS SECTIONS

SHEET NO.
116



Regular A(sf)	Exc. V(cy)	Embankment	
		A(sf)	V(cy)
0.0	39	77.3	149
42.6	58	83.9	174
19.6	32	104.2	182

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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FORT MYERS, FL 33901

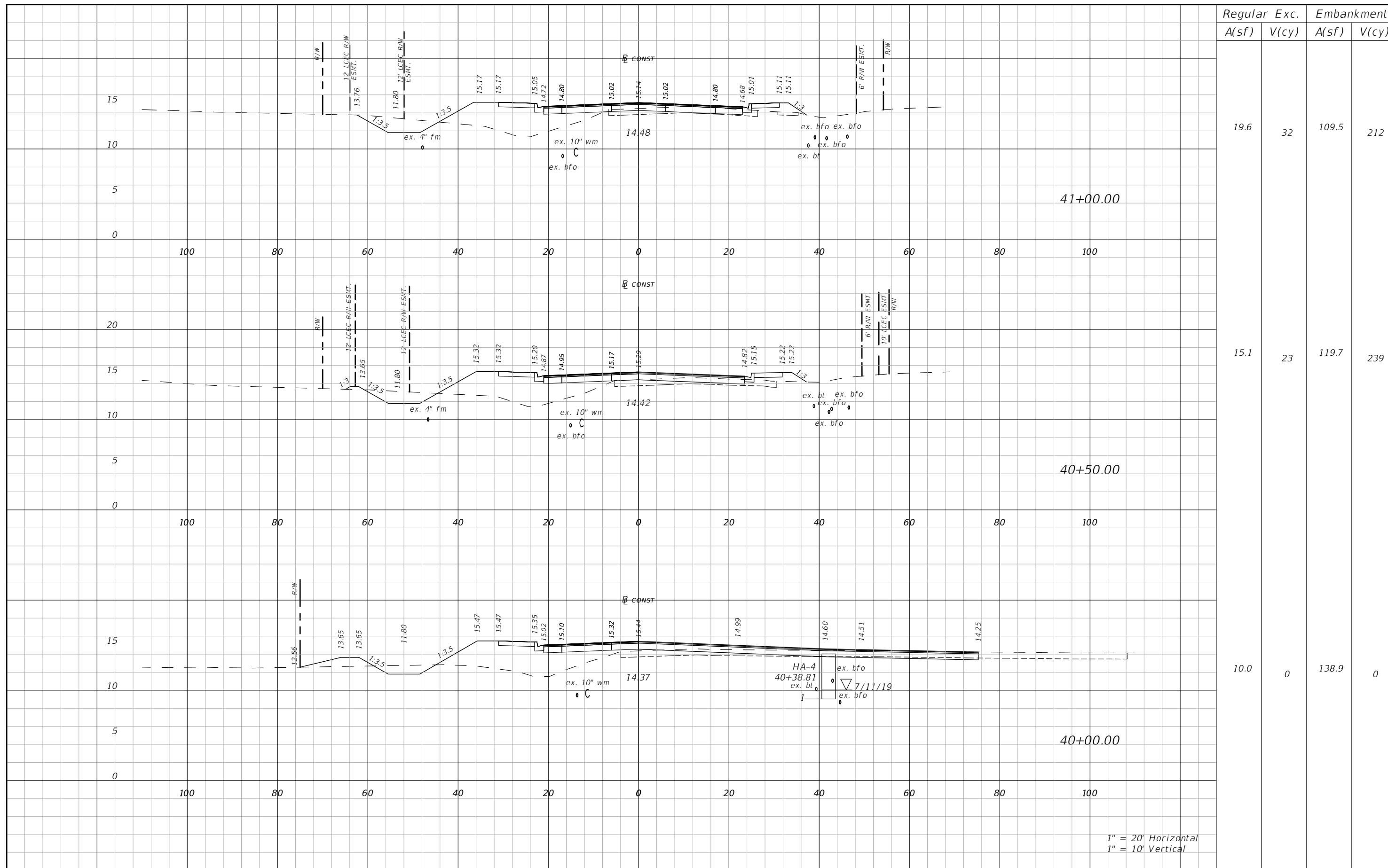
LEE COUNTY
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ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
117

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Regular A(sf)	Exc. V(cy)	Embankment A(sf)	V(cy)
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19.6	32	109.5	212
15.1	23	119.7	239
10.0	0	138.9	0

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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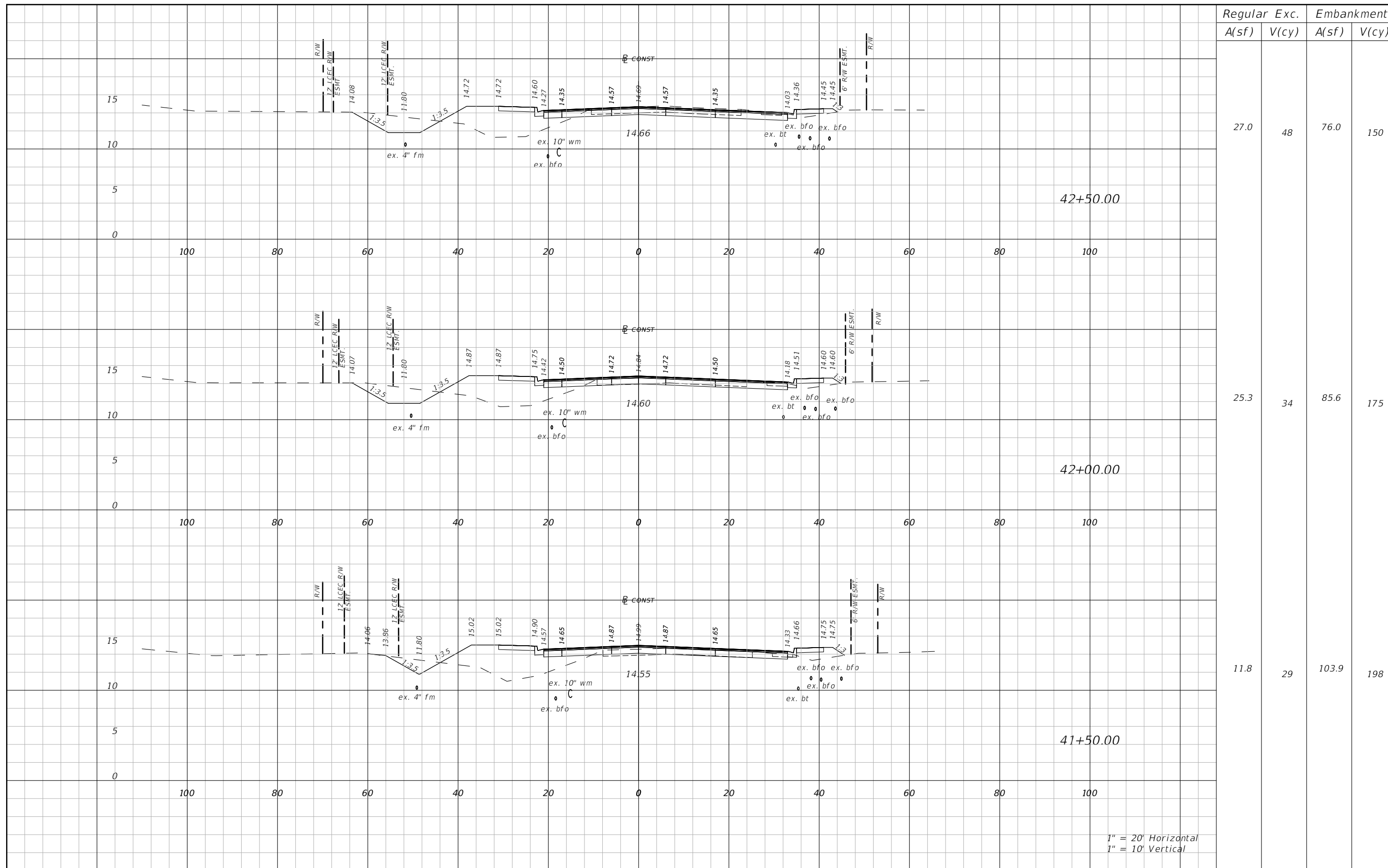
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1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
118

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
27.0	48	76.0	150		
25.3	34	85.6	175		
11.8	29	103.9	198		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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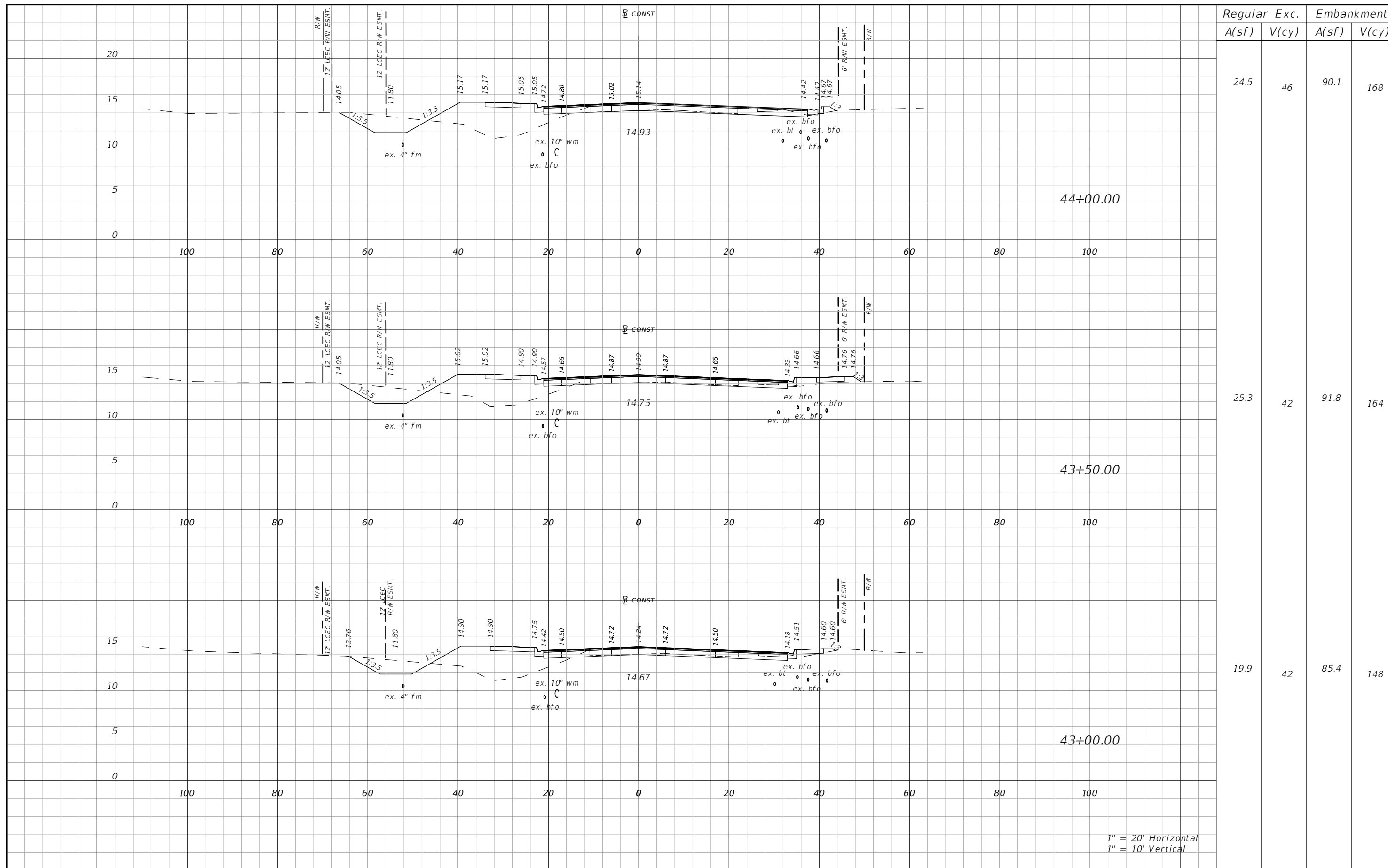
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
119

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
24.5	46	90.1	168		
25.3	42	91.8	164		
19.9	42	85.4	148		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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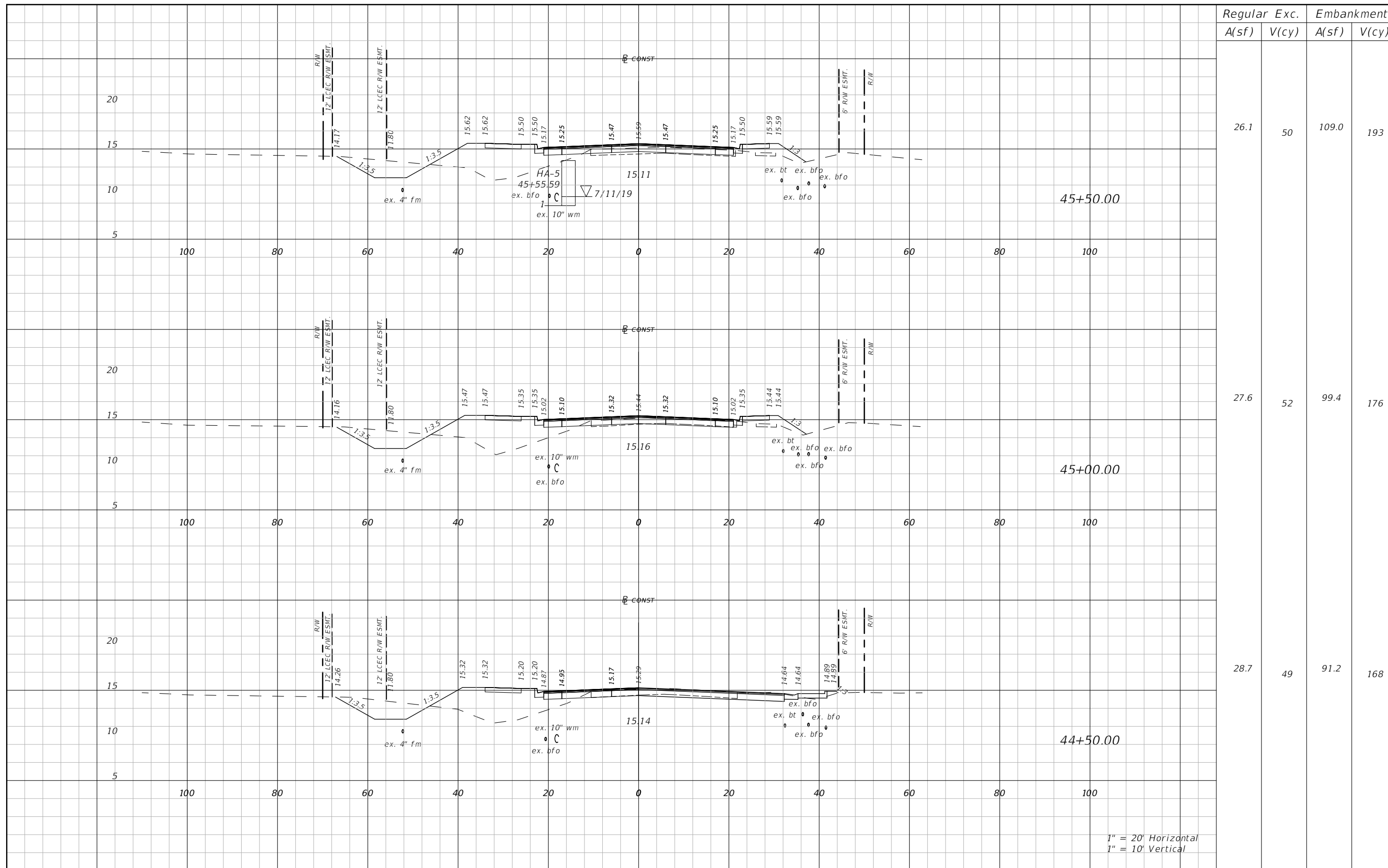
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
120

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

26.1 50 109.0 193

27.6 52 99.4 176

28.7 49 91.2 168

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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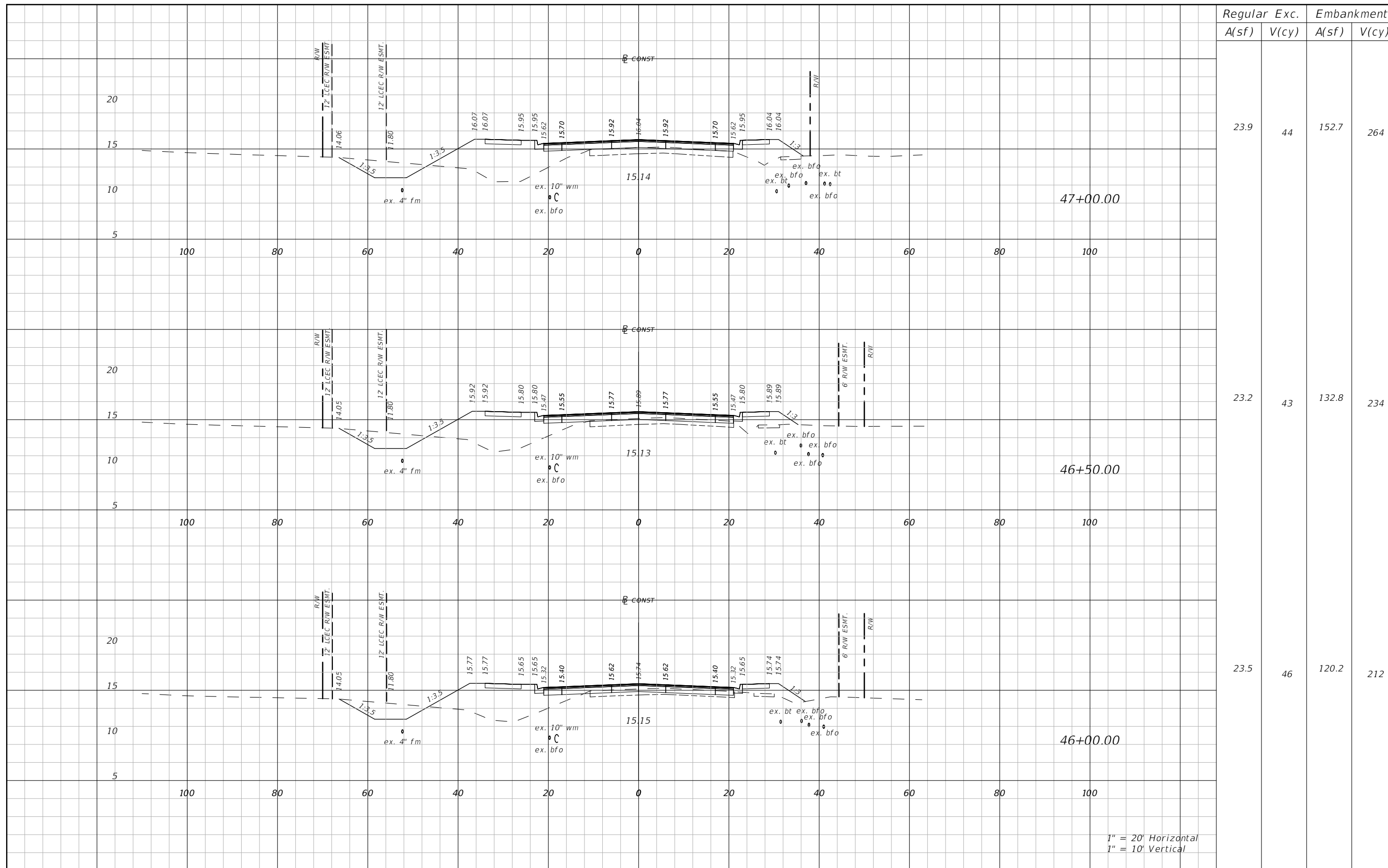
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
121

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

23.9 44 152.7 264

23.2 43 132.8 234

23.5 46 120.2 212

47+00.00

46+50.00

46+00.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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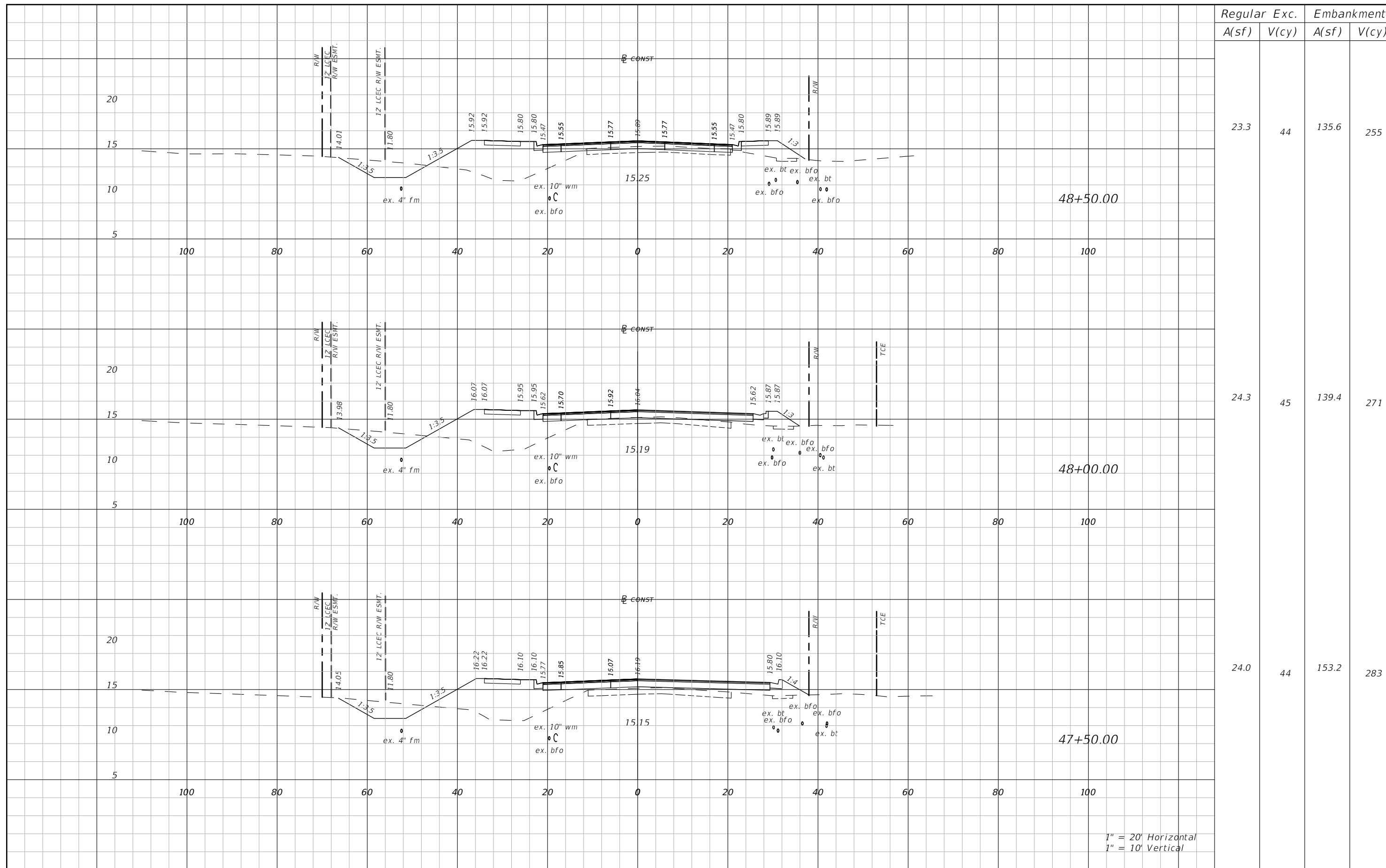
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
122

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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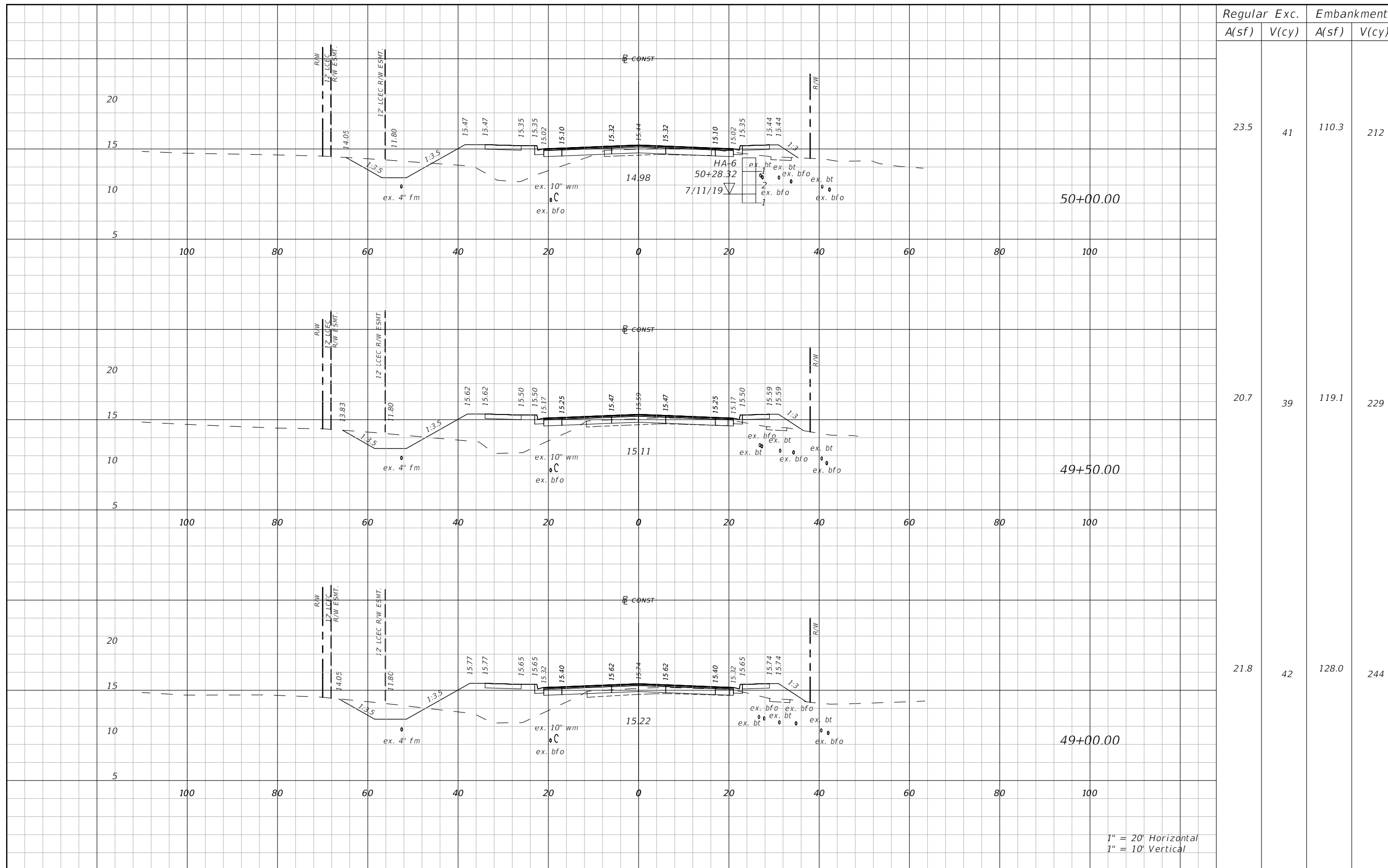
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
123

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

23.5 41 110.3 212

20.7 39 119.1 229

21.8 42 128.0 244

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

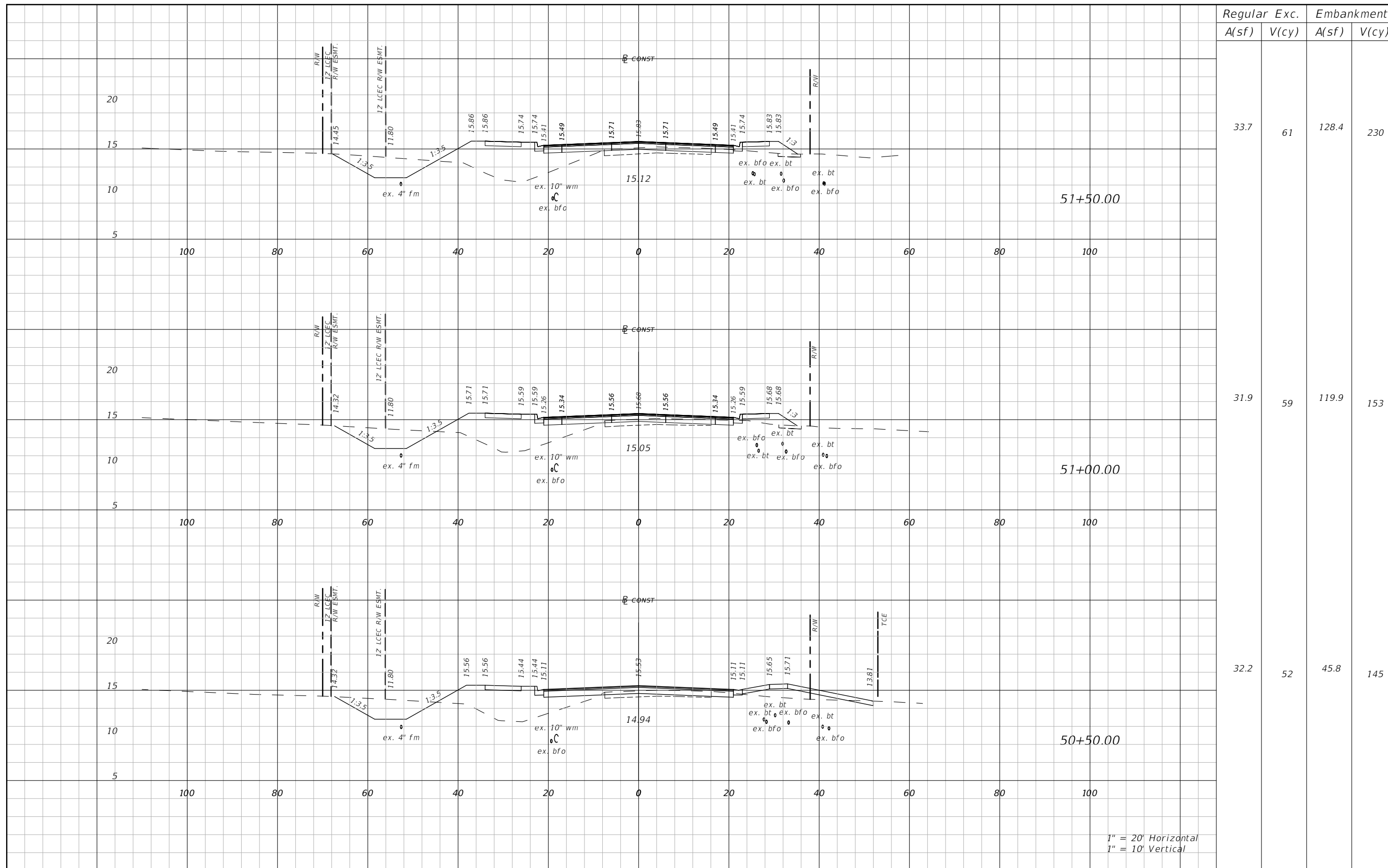
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
124

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

33.7	61	128.4	230
------	----	-------	-----

31.9	59	119.9	153
------	----	-------	-----

32.2	52	45.8	145
------	----	------	-----

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

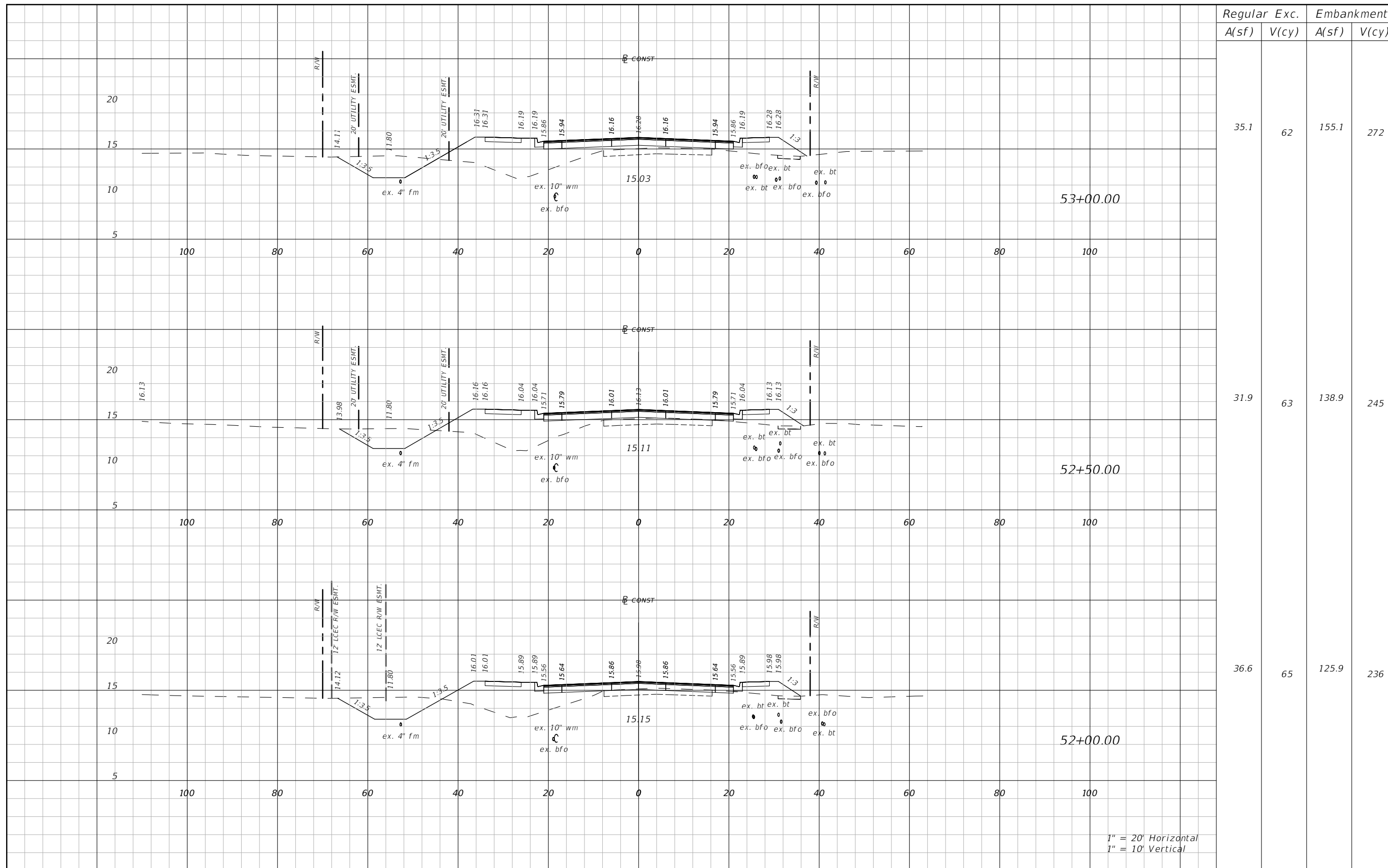
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
125

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

35.1 62 155.1 272

31.9 63 138.9 245

36.6 65 125.9 236

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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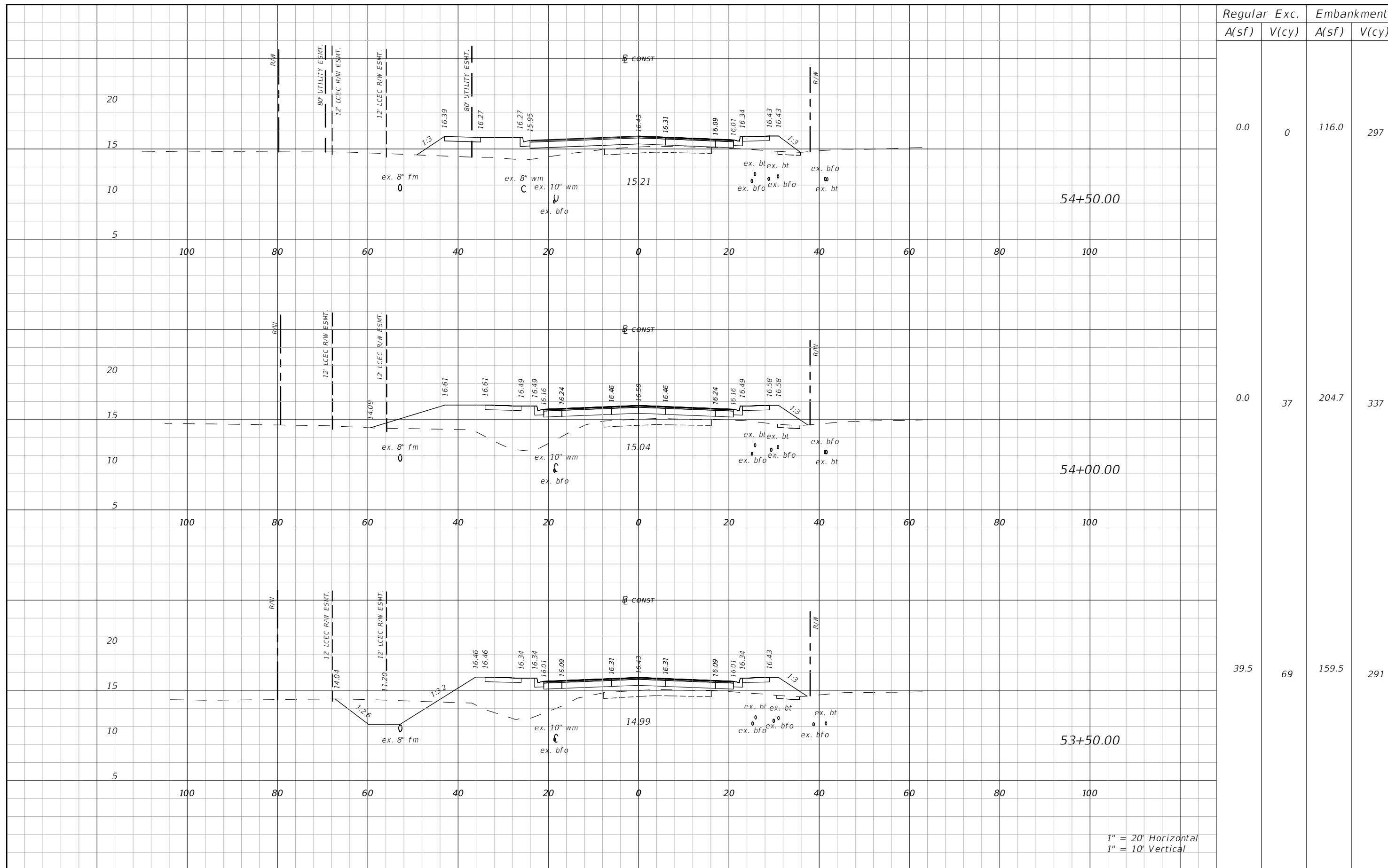
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
126

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.0	0	116.0	297		
0.0	37	204.7	337		
39.5	69	159.5	291		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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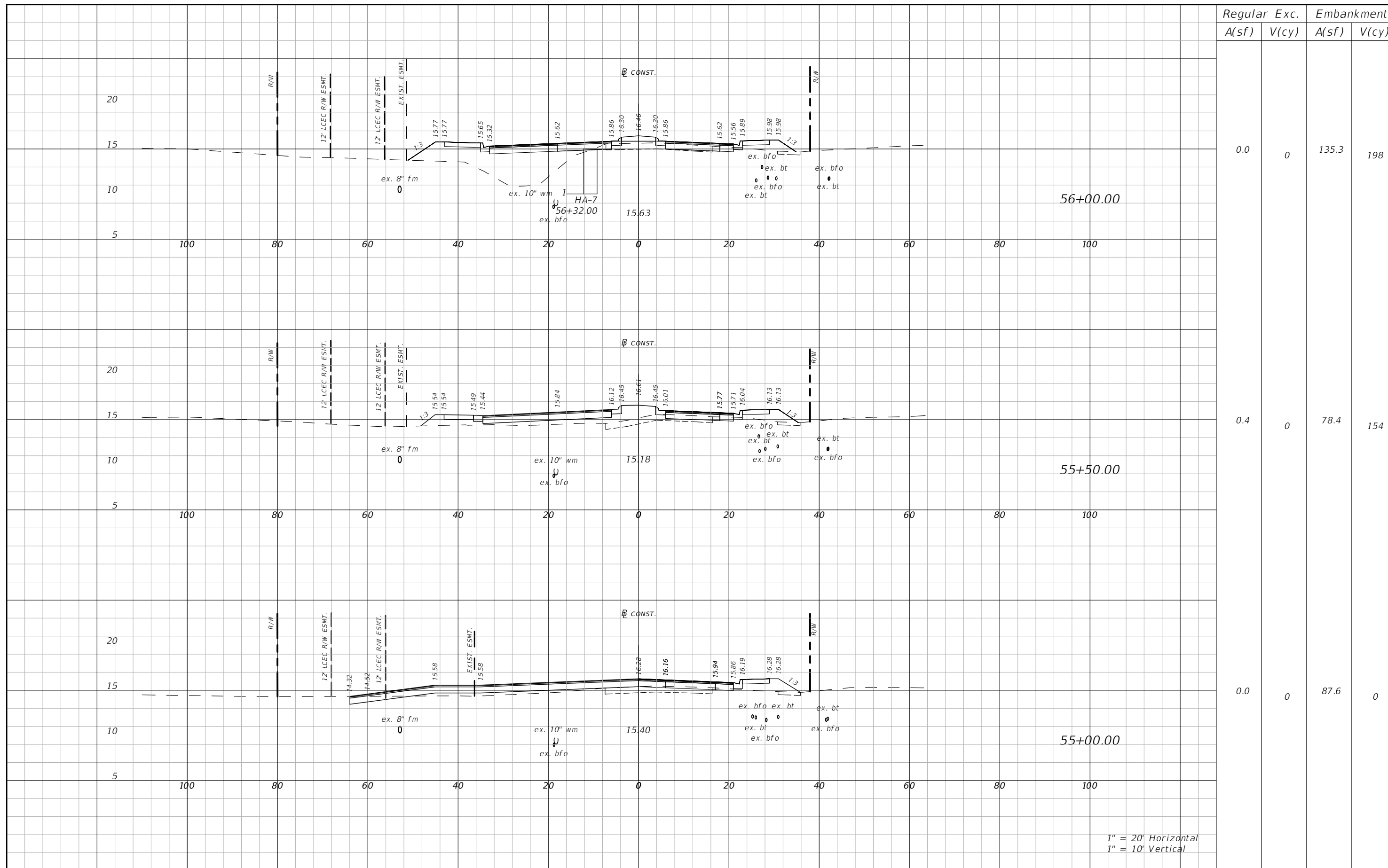
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY
DEPARTMENT OF TRANSPORTATION
ROAD NAME: LITTLETON ROAD
COUNTY: LEE
CONTRACT NO.: CN190114

CROSS SECTIONS

SHEET NO.
127

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

0.0 0 135.3 198

56+00.00

0.4 0 78.4 154

55+50.00

0.0 0 87.6 0

55+00.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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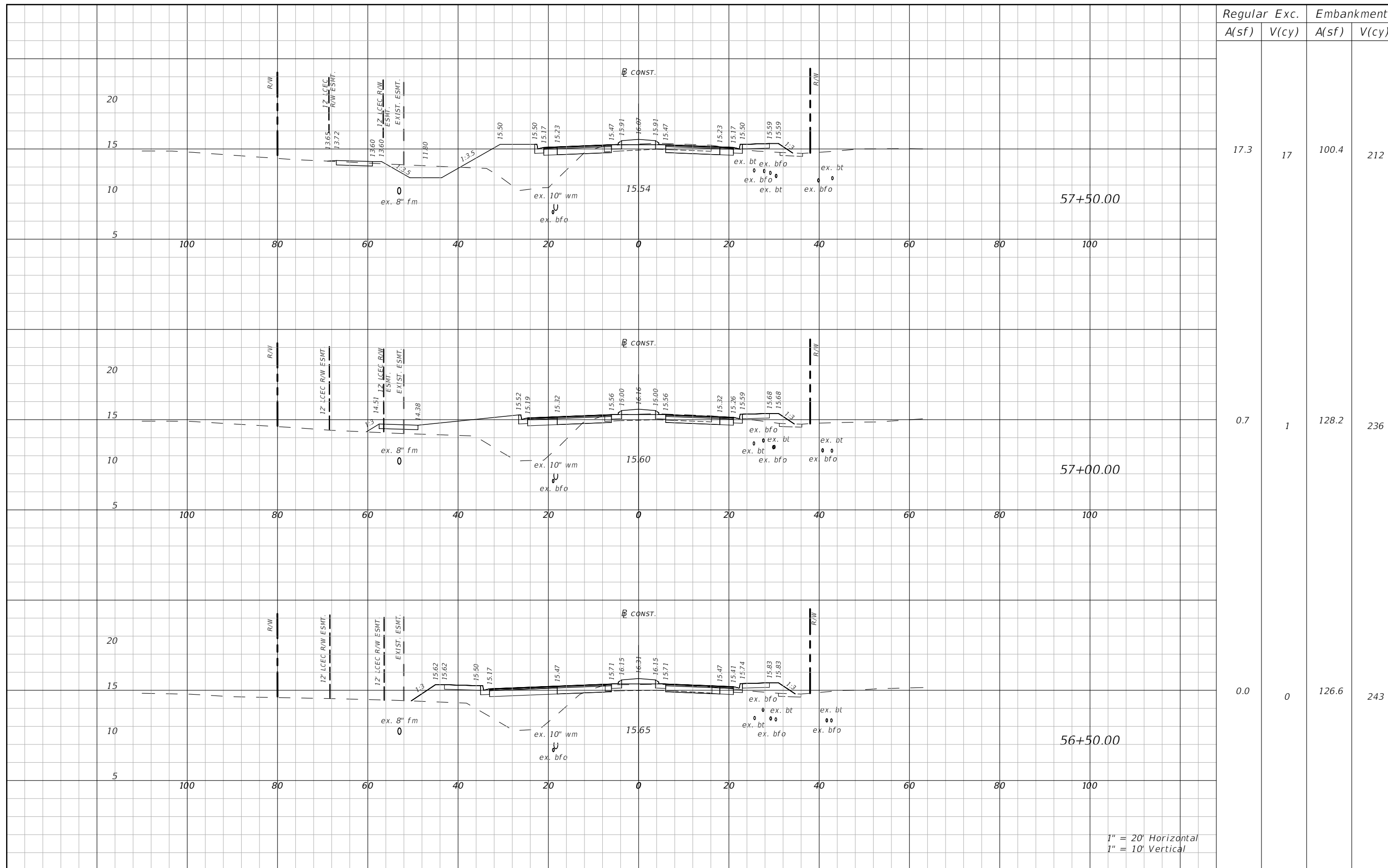
DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
128

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
17.3	17	100.4	212
0.7	1	128.2	236
0.0	0	126.6	243

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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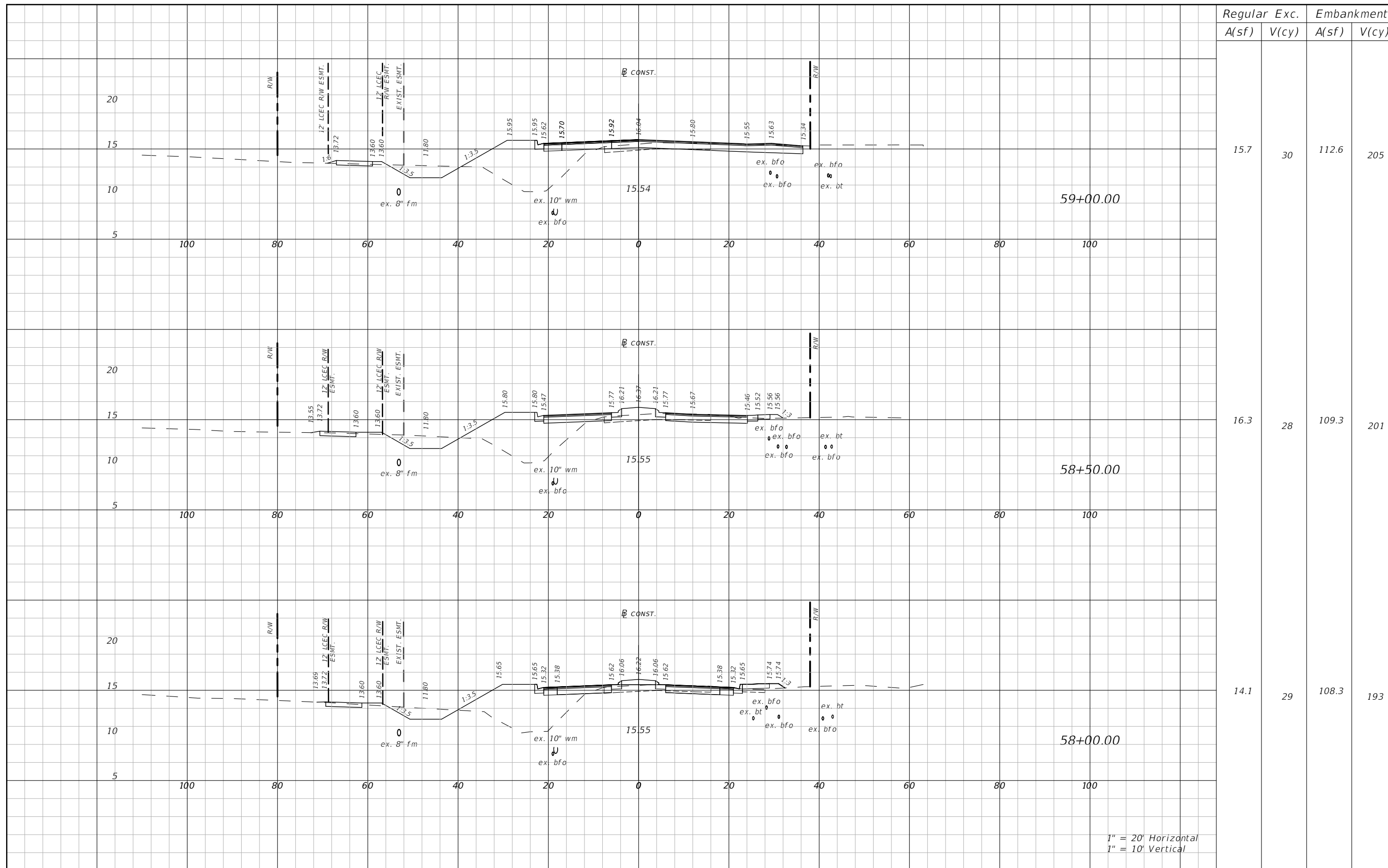
DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
129

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



Regular A(sf)	Exc. V(cy)	Embankment A(sf)	V(cy)
---------------	------------	------------------	-------

15.7	30	112.6	205
------	----	-------	-----

16.3	28	109.3	201
------	----	-------	-----

14.1	29	108.3	193
------	----	-------	-----

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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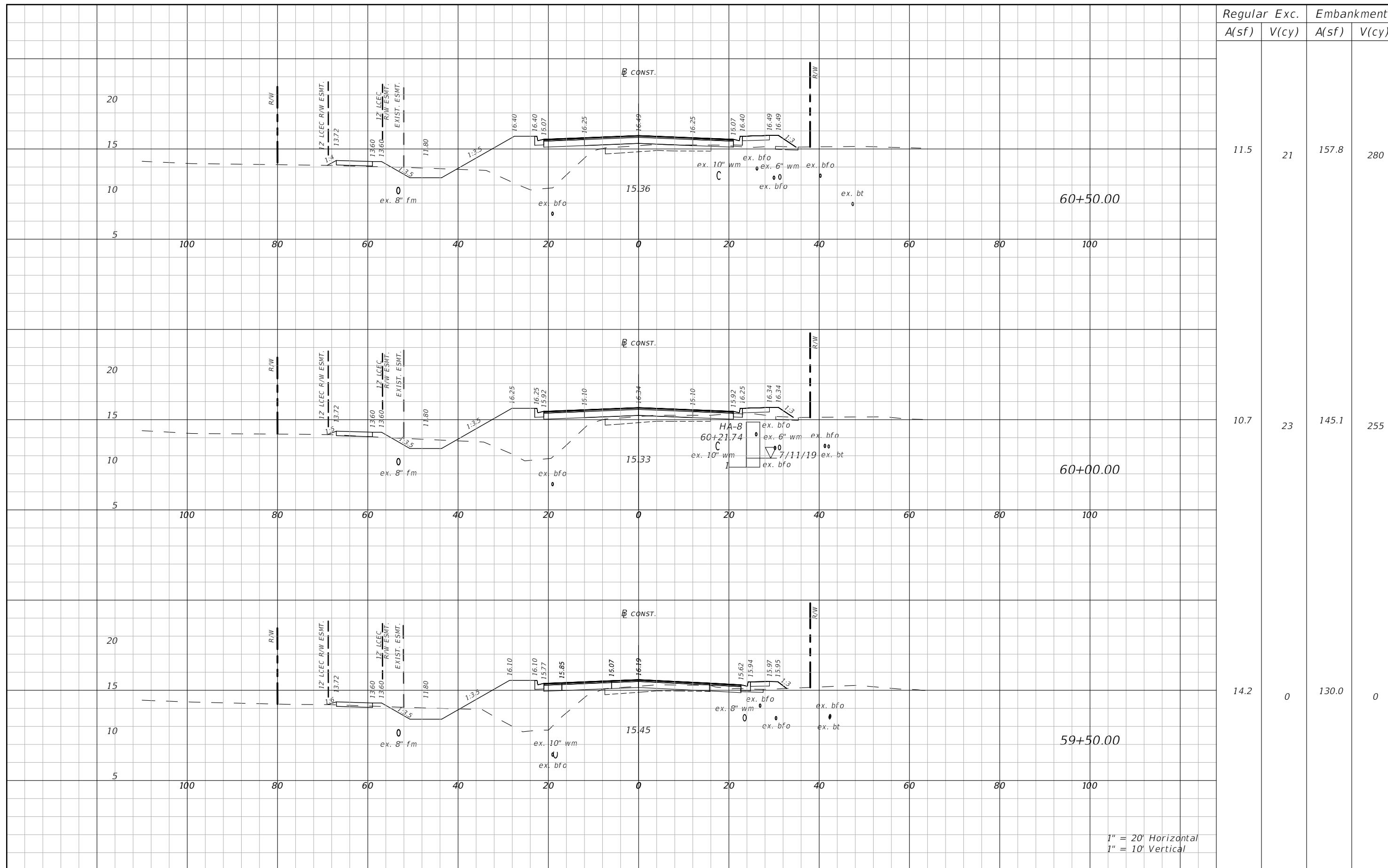
DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
130

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

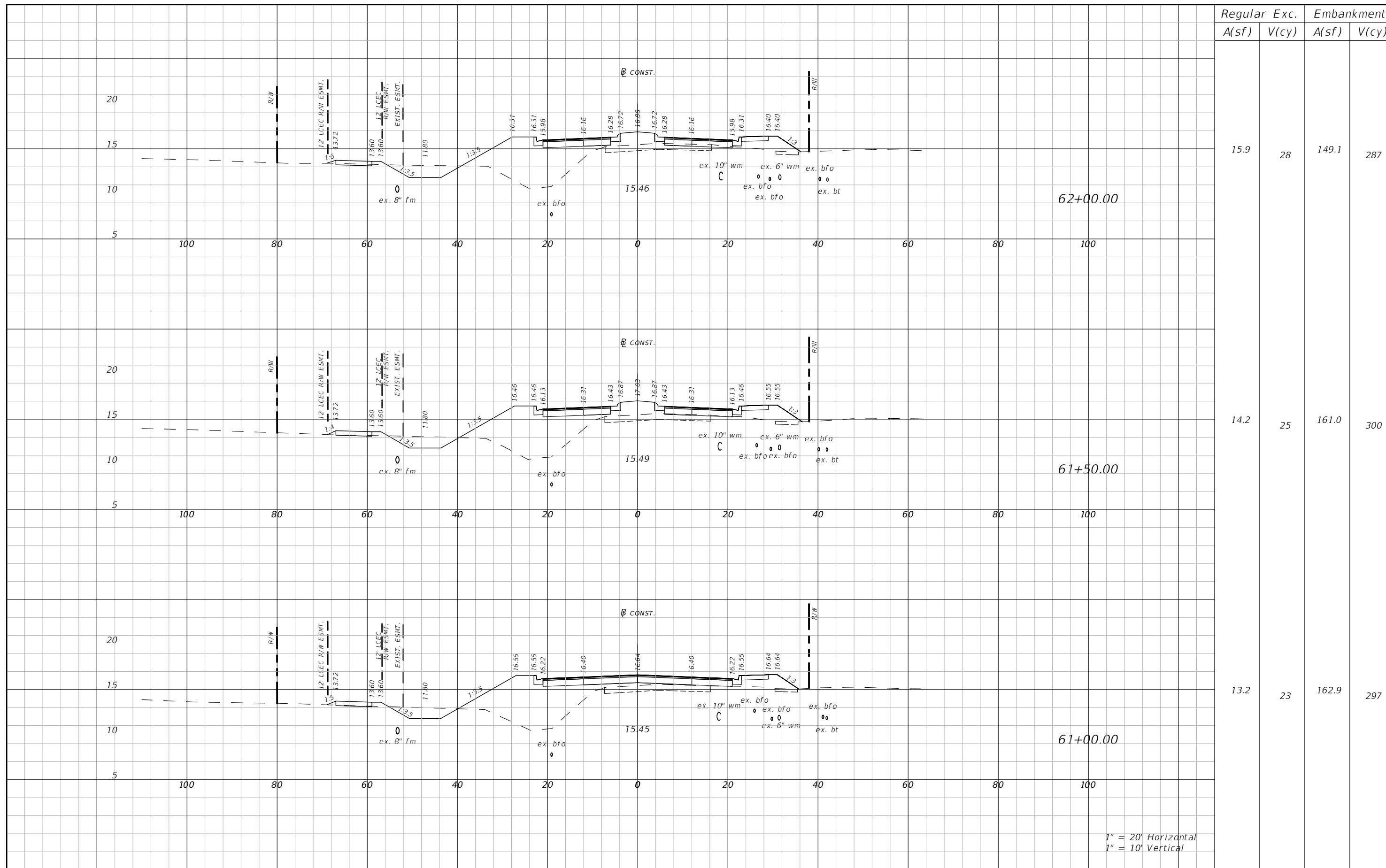
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET
NO.

131

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

15.9	28	149.1	287
------	----	-------	-----

14.2	25	161.0	300
------	----	-------	-----

13.2	23	162.9	297
------	----	-------	-----

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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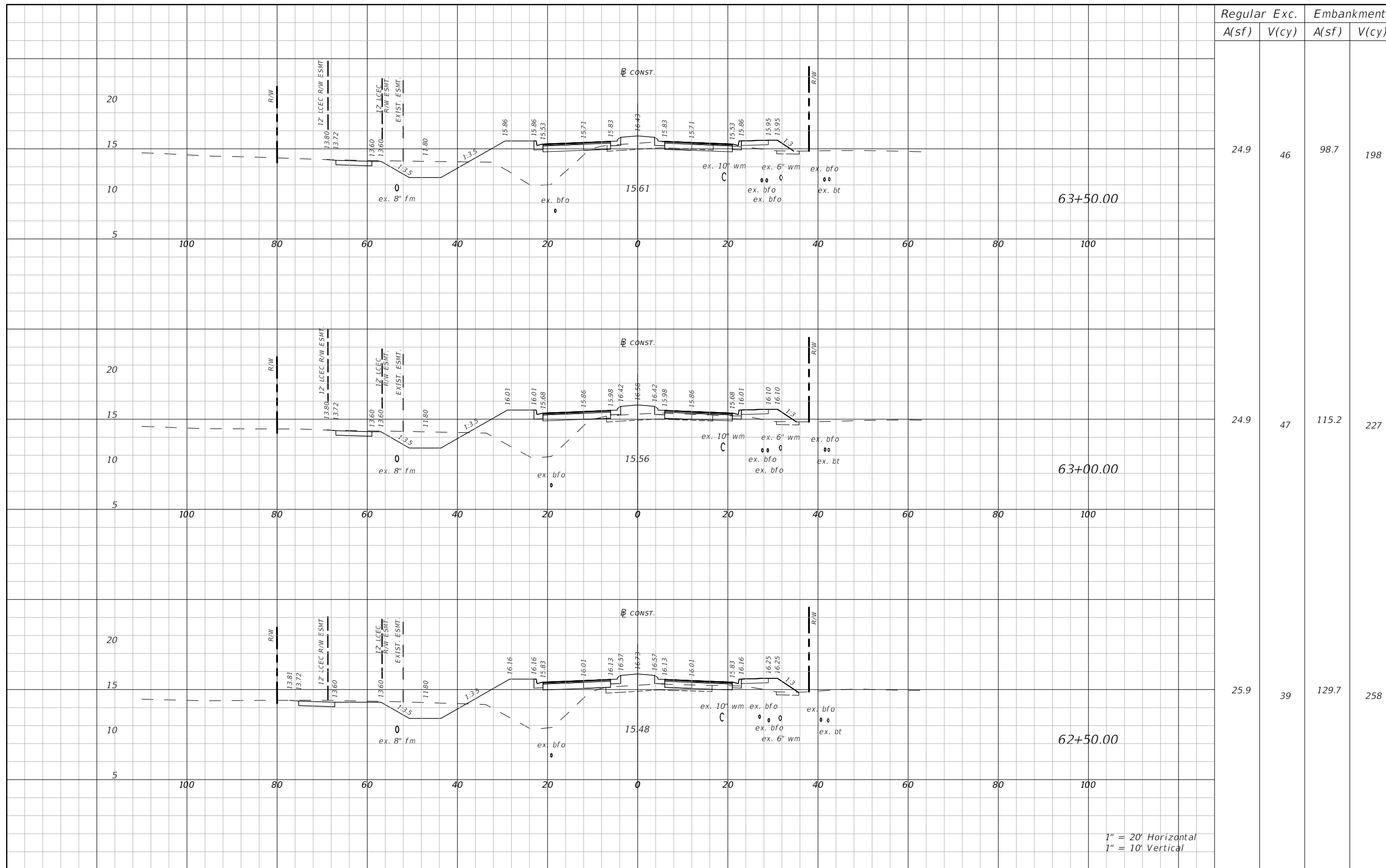
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
132

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

24.9	46	98.7	198
------	----	------	-----

63+50.00

24.9	47	115.2	227
------	----	-------	-----

63+00.00

25.9	39	129.7	258
------	----	-------	-----

62+50.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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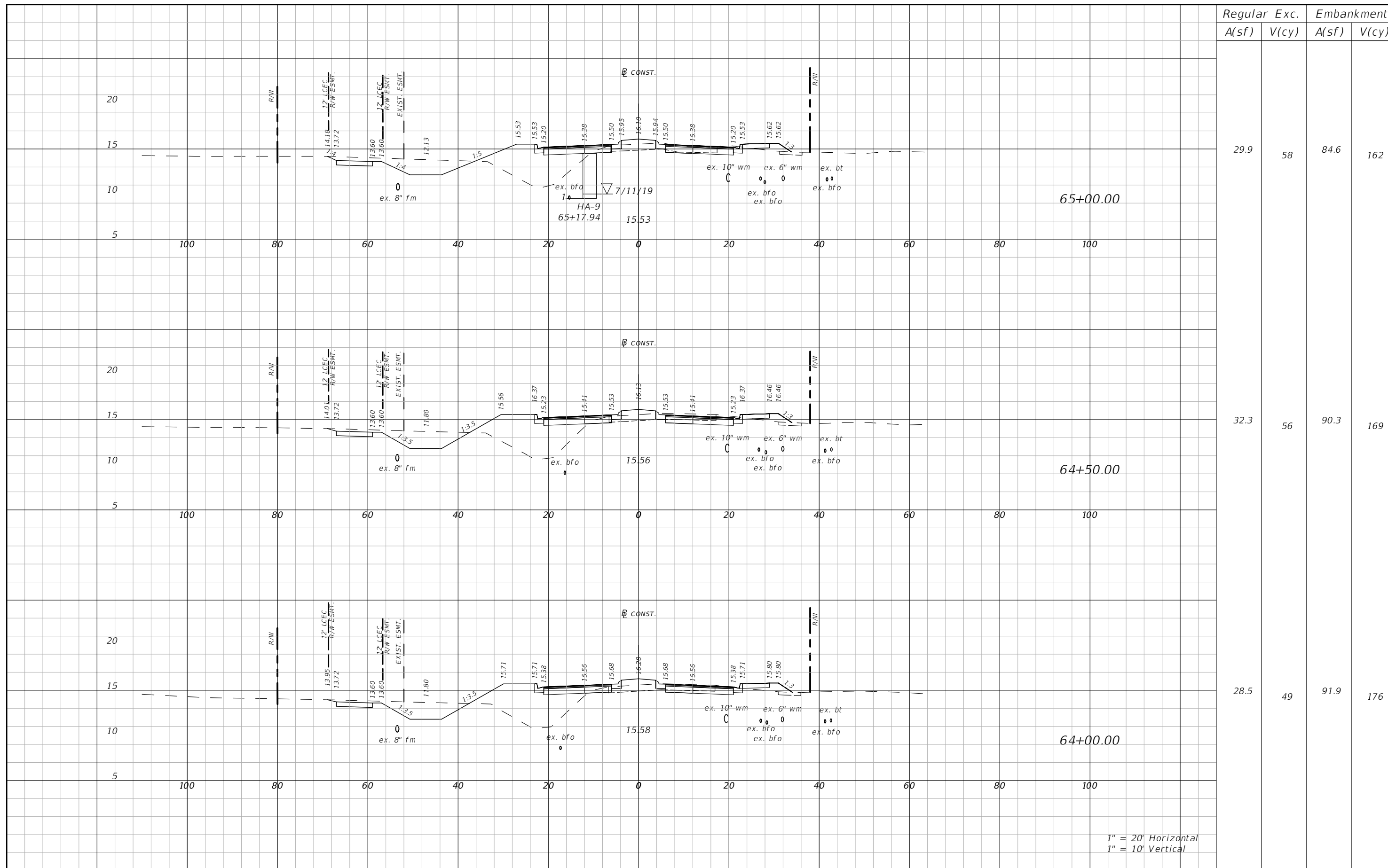
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
133

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

29.9	58	84.6	162		
32.3	56	90.3	169		
28.5	49	91.9	176		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

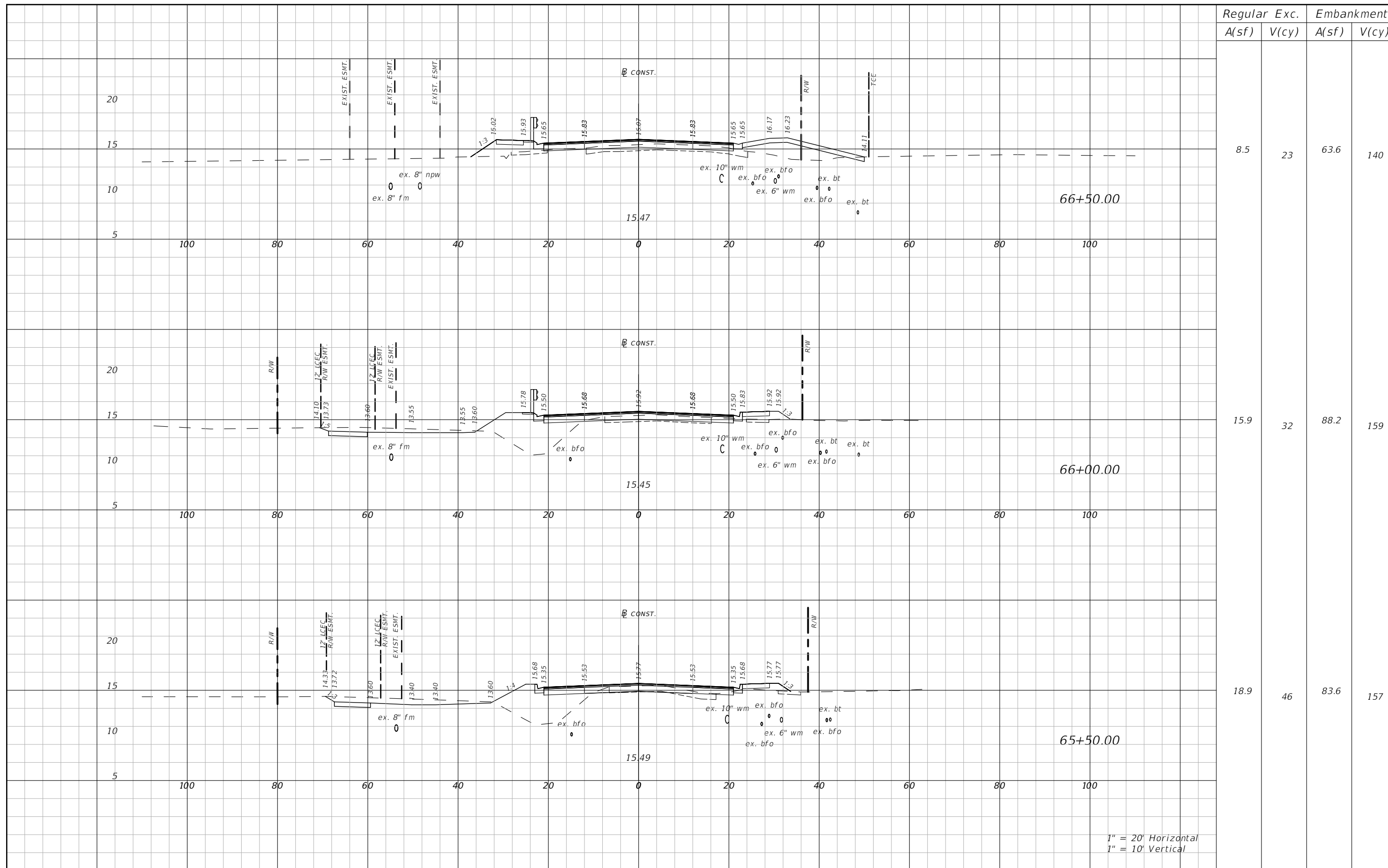
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
134

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
8.5	23	63.6	140		
15.9	32	88.2	159		
18.9	46	83.6	157		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

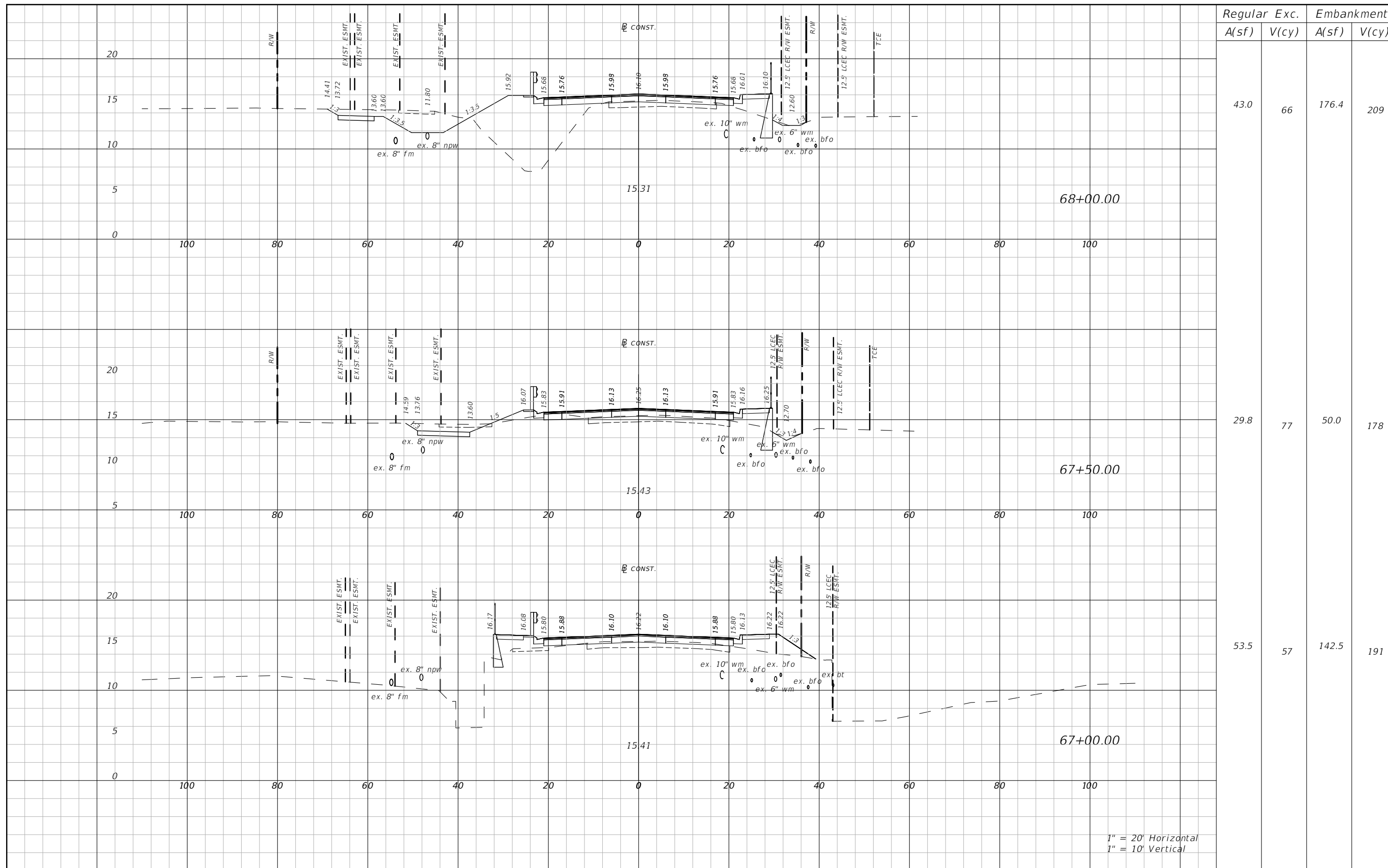
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
135

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
43.0	66	176.4	209		
29.8	77	50.0	178		
53.5	57	142.5	191		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

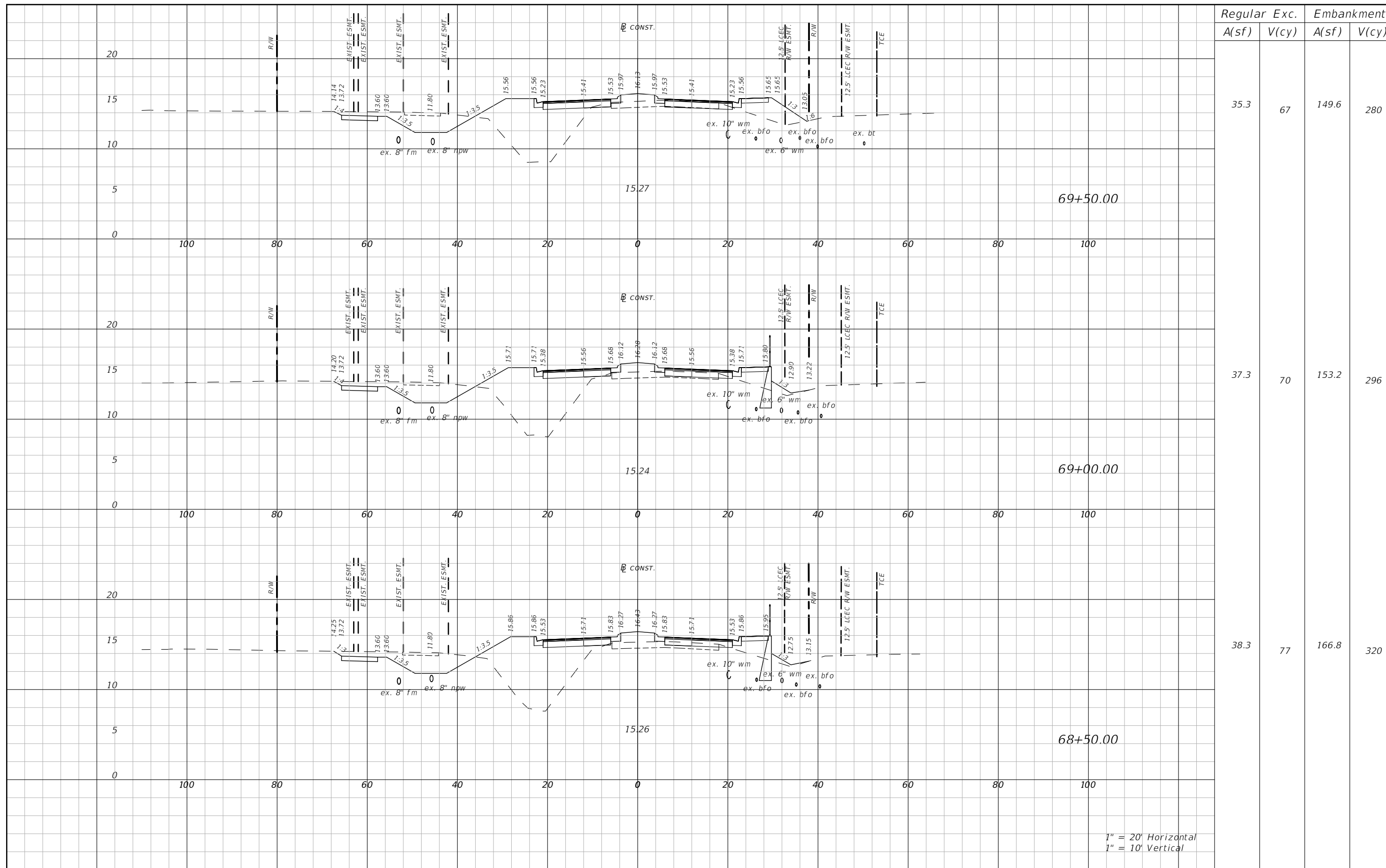
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
136

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



Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

35.3	67	149.6	280
------	----	-------	-----

37.3	70	153.2	296
------	----	-------	-----

38.3	77	166.8	320
------	----	-------	-----

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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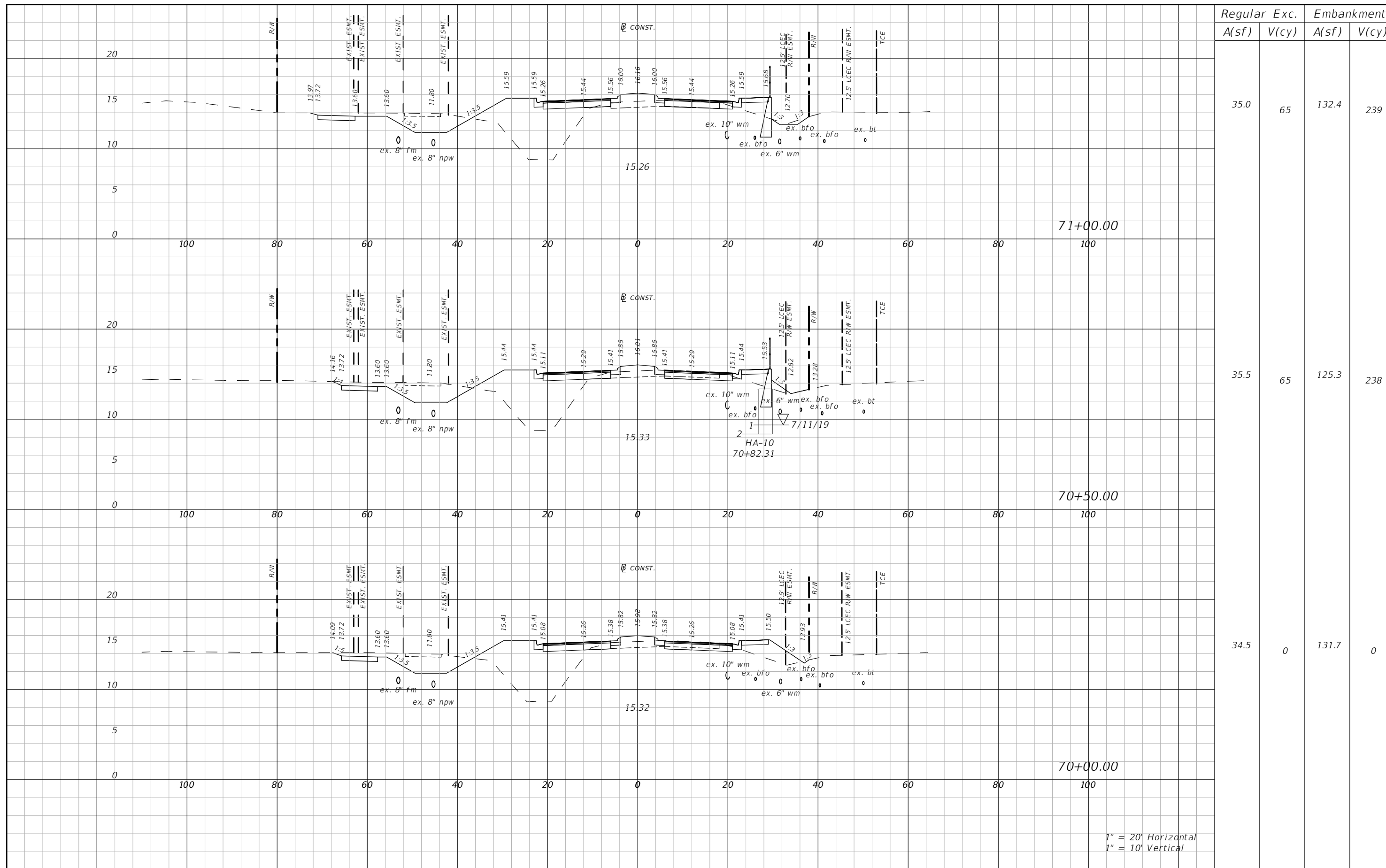
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
137

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

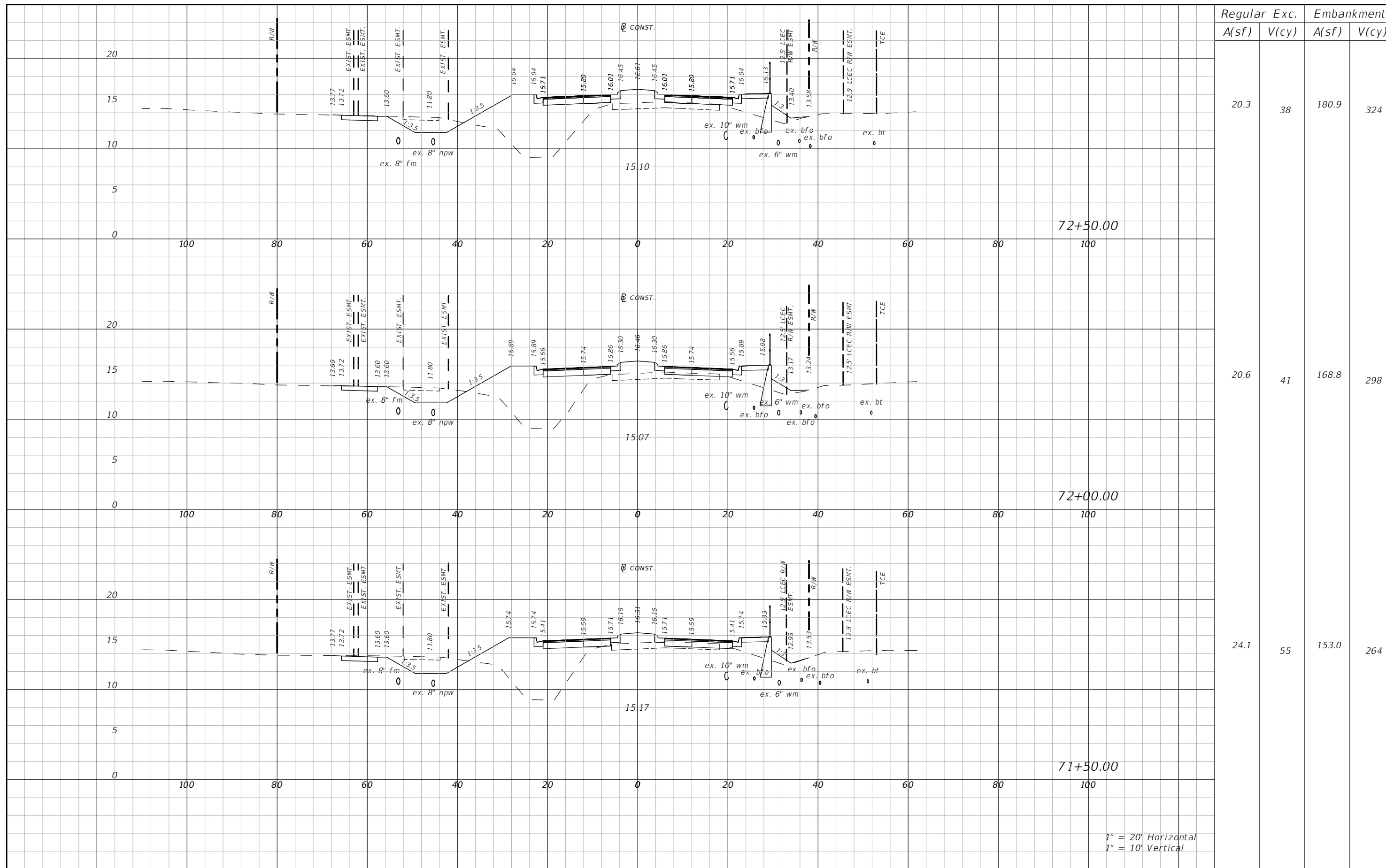
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET
NO.

138

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



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

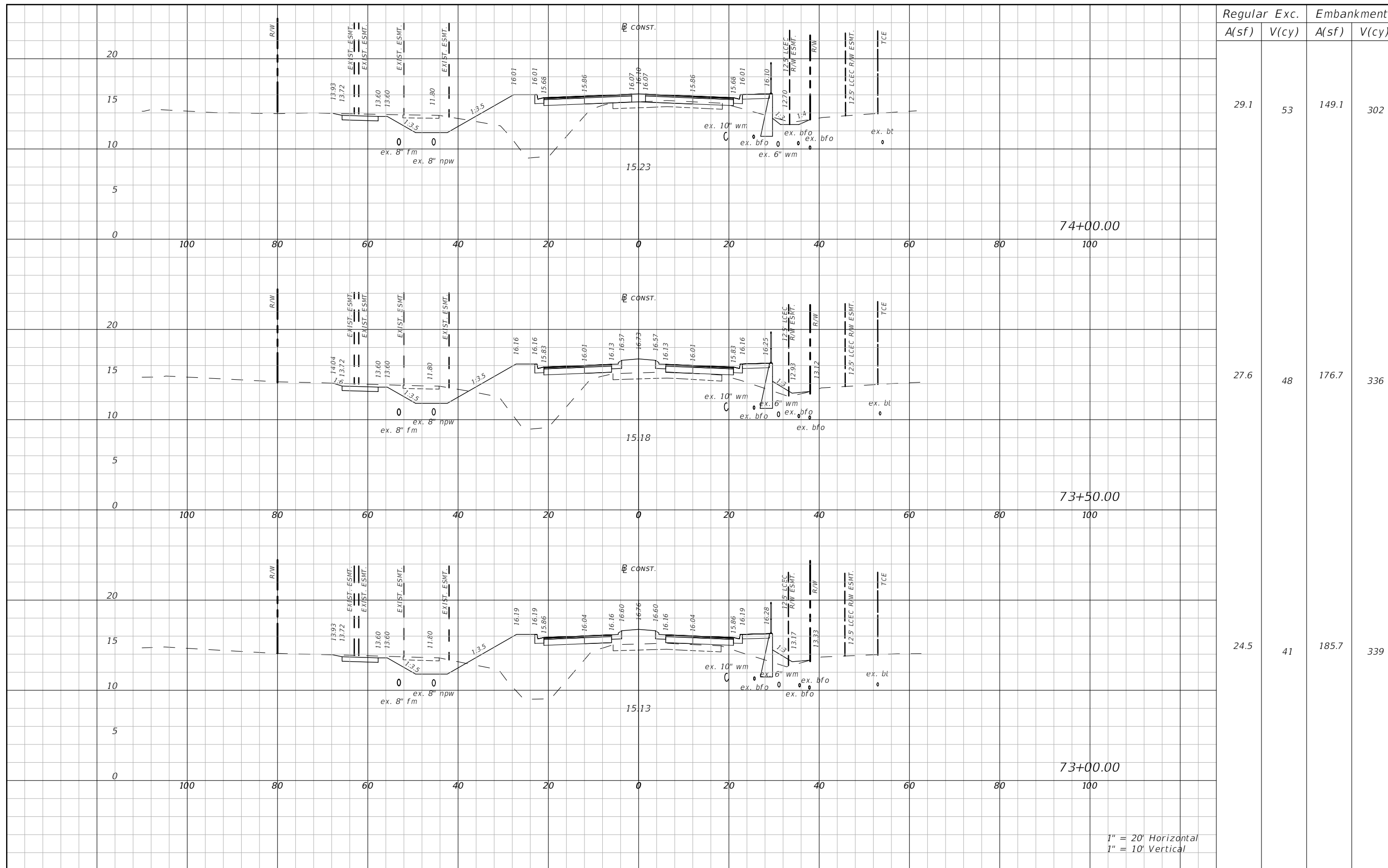
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET
NO.

139

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

29.1	53	149.1	302
27.6	48	176.7	336
24.5	41	185.7	339

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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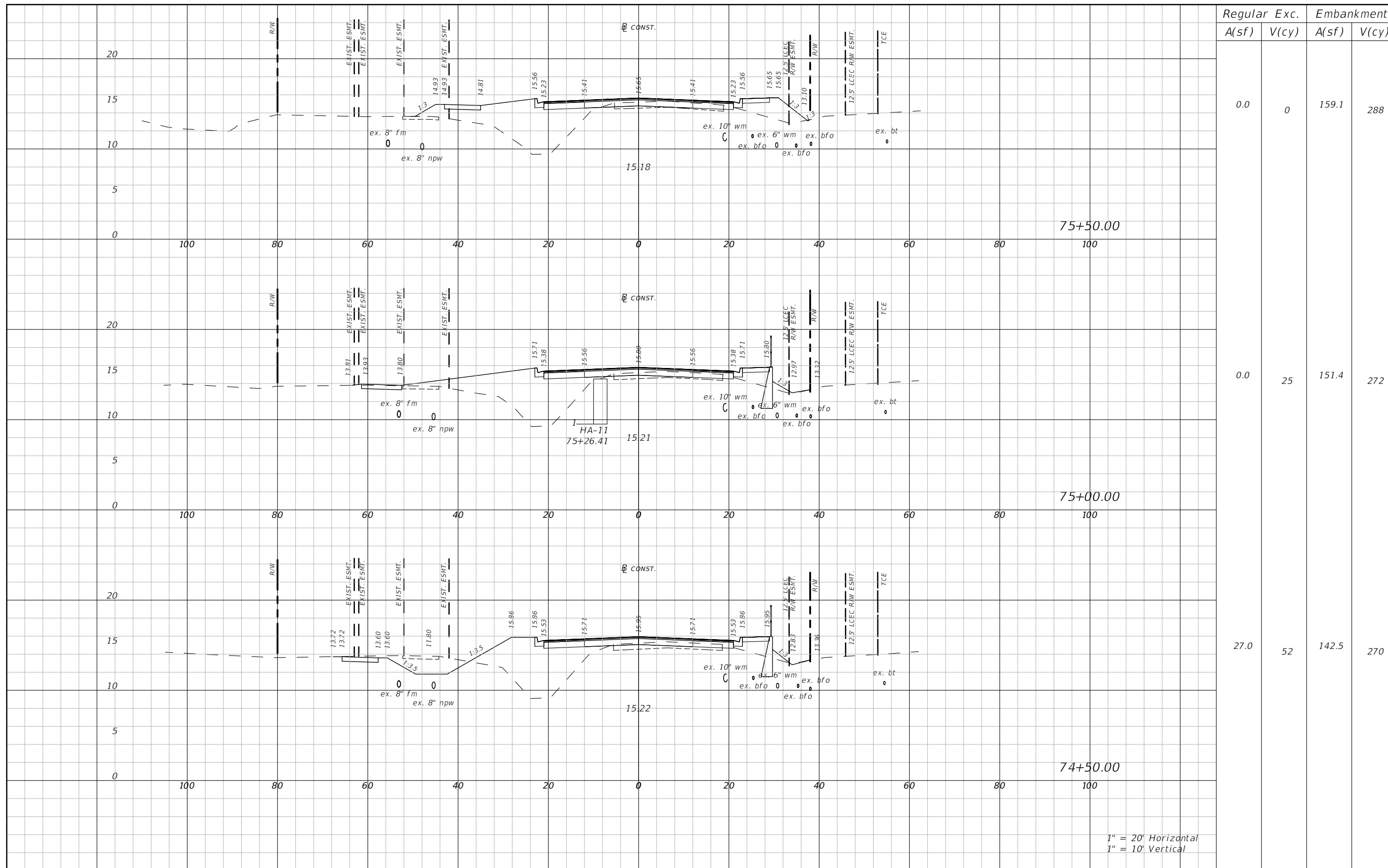
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
140

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

0.0 0 159.1 288

0.0 25 151.4 272

27.0 52 142.5 270

75+50.00

75+00.00

74+50.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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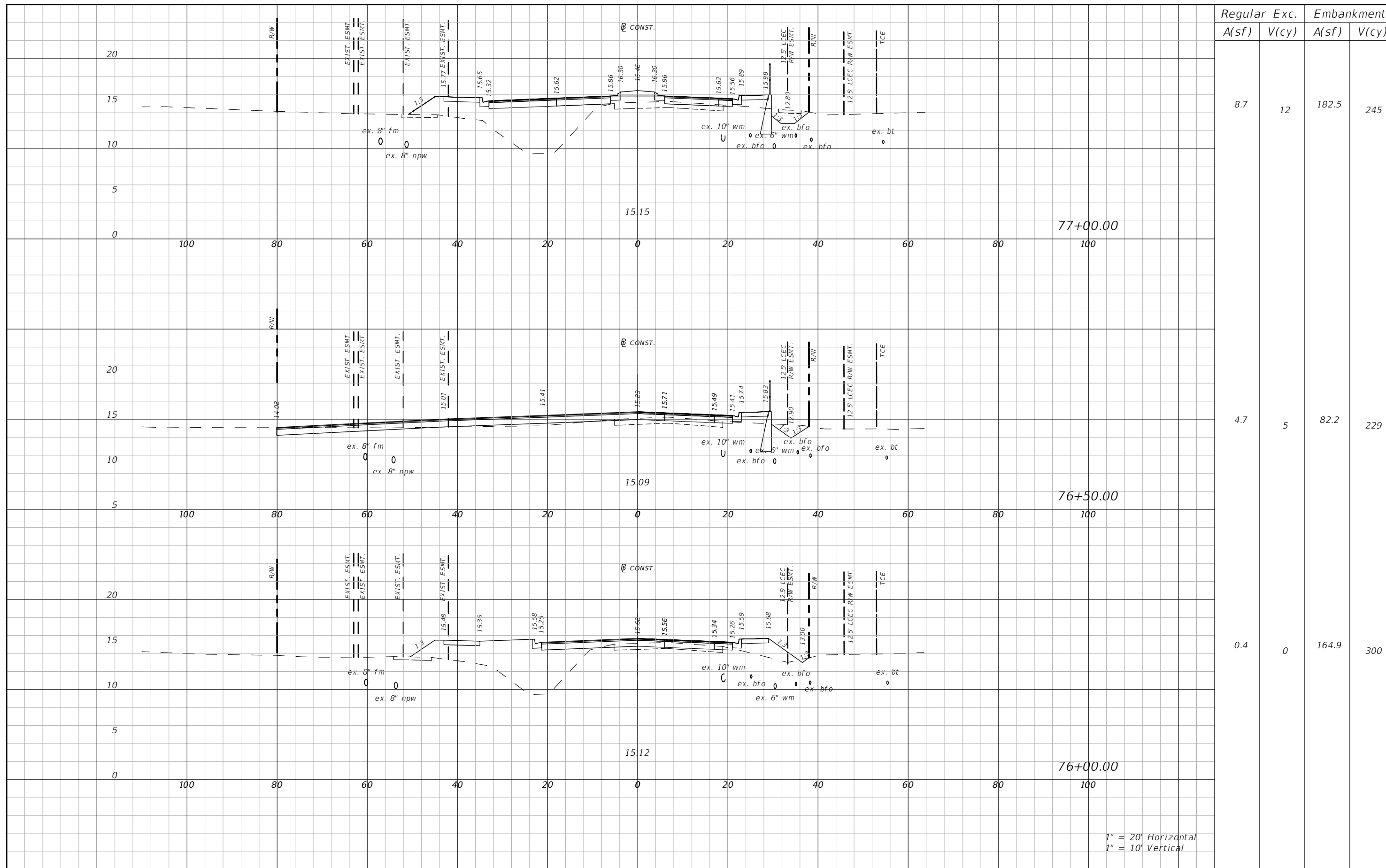
DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

SHEET NO.
141

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



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

8.7	12	182.5	245		
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4.7	5	82.2	229		
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0.4	0	164.9	300		
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77+00.00

76+50.00

76+00.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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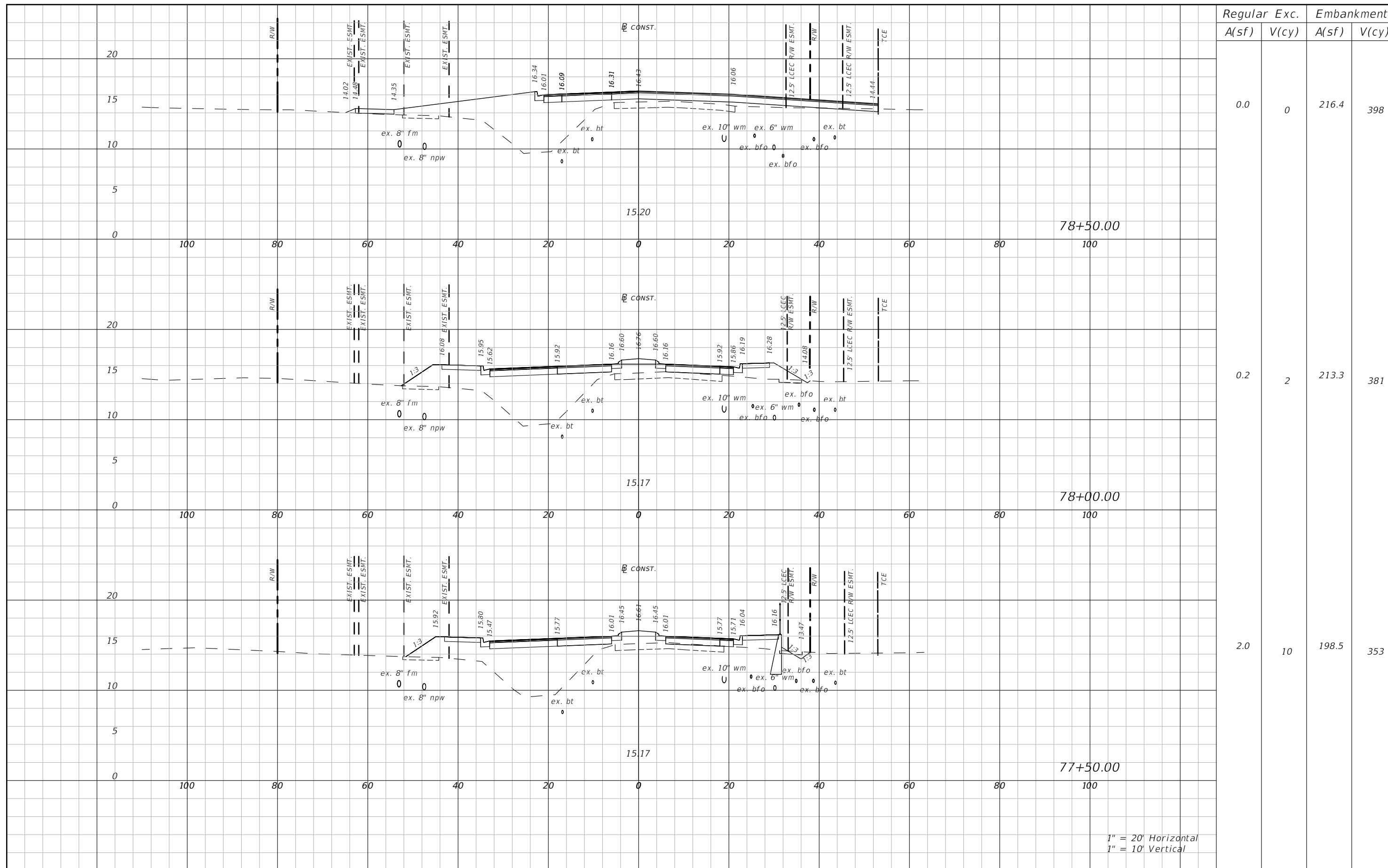
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LICENSE NUMBER 38590
CARDNO, INC.
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FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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SHEET NO.
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

0.0	0	216.4	398		
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0.2	2	213.3	381		
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2.0	10	198.5	353		
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1" = 20' Horizontal
1" = 10' Vertical

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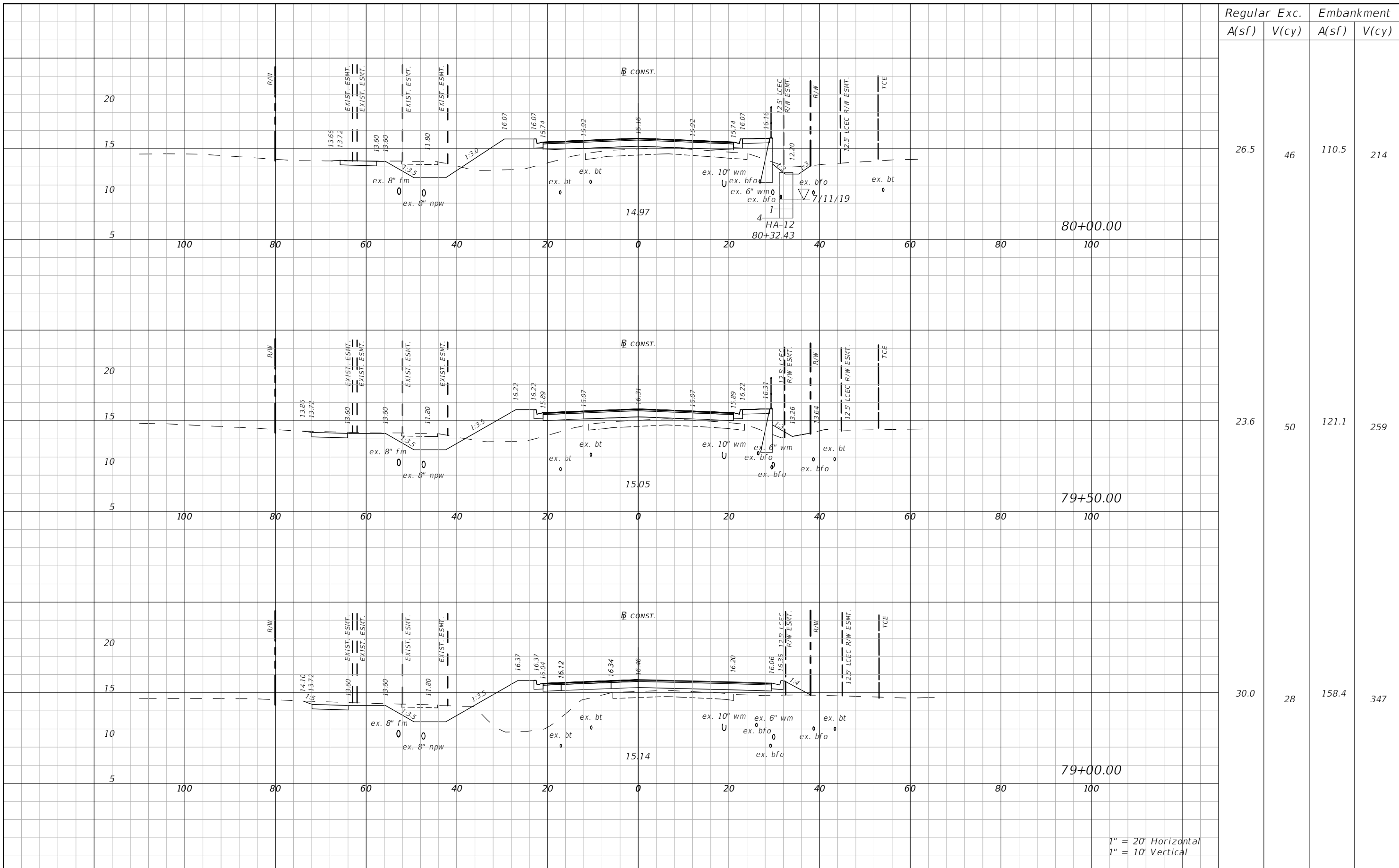
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
26.5	46	110.5	214		
23.6	50	121.1	259		
30.0	28	158.4	347		

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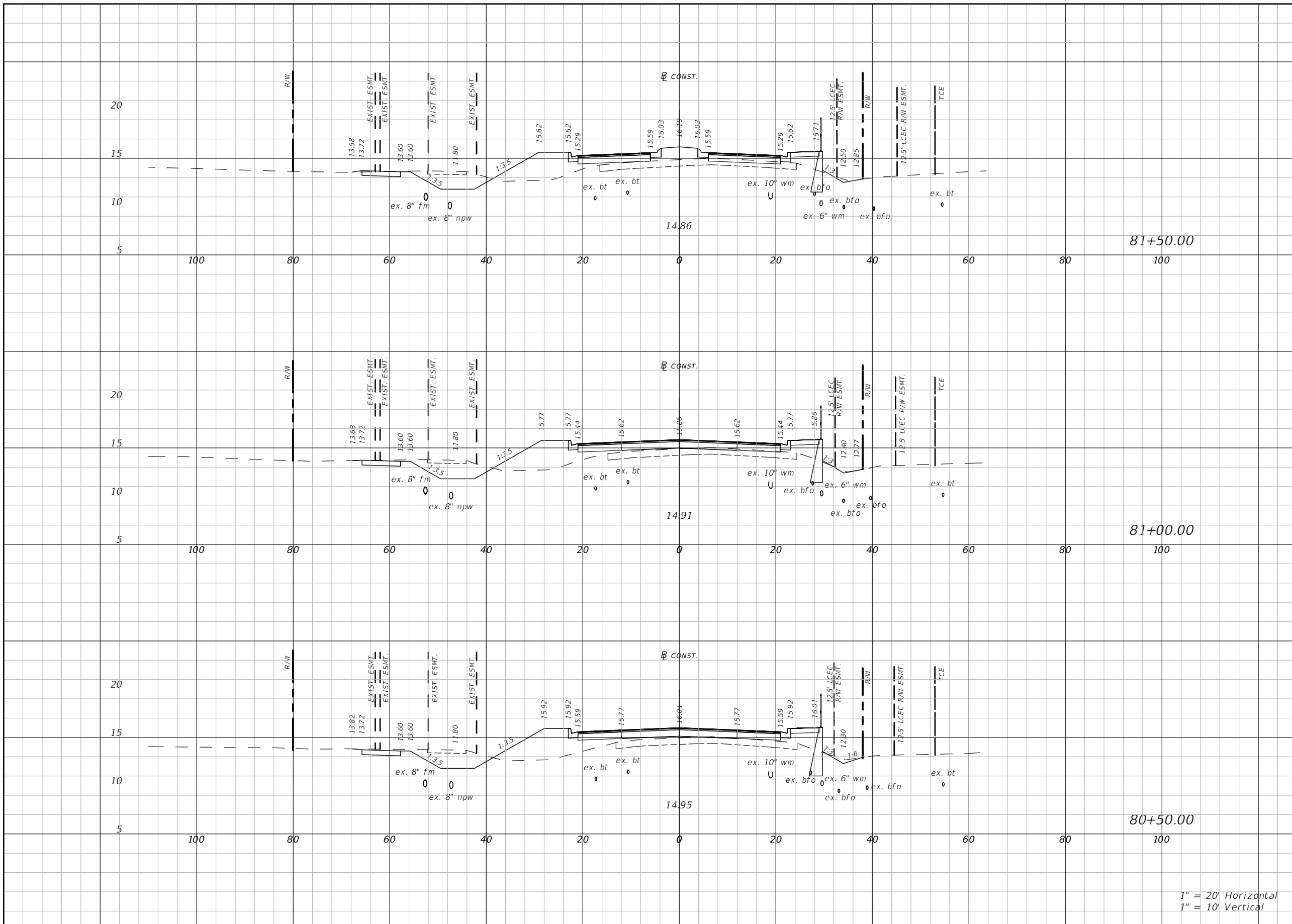
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DEPARTMENT OF TRANSPORTATION

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LITTLETON ROAD	LEE	CN190114

CROSS SECTIONS

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
23.0	43	85.6	166		
24.0	45	94.0	185		
25.0	48	105.5	200		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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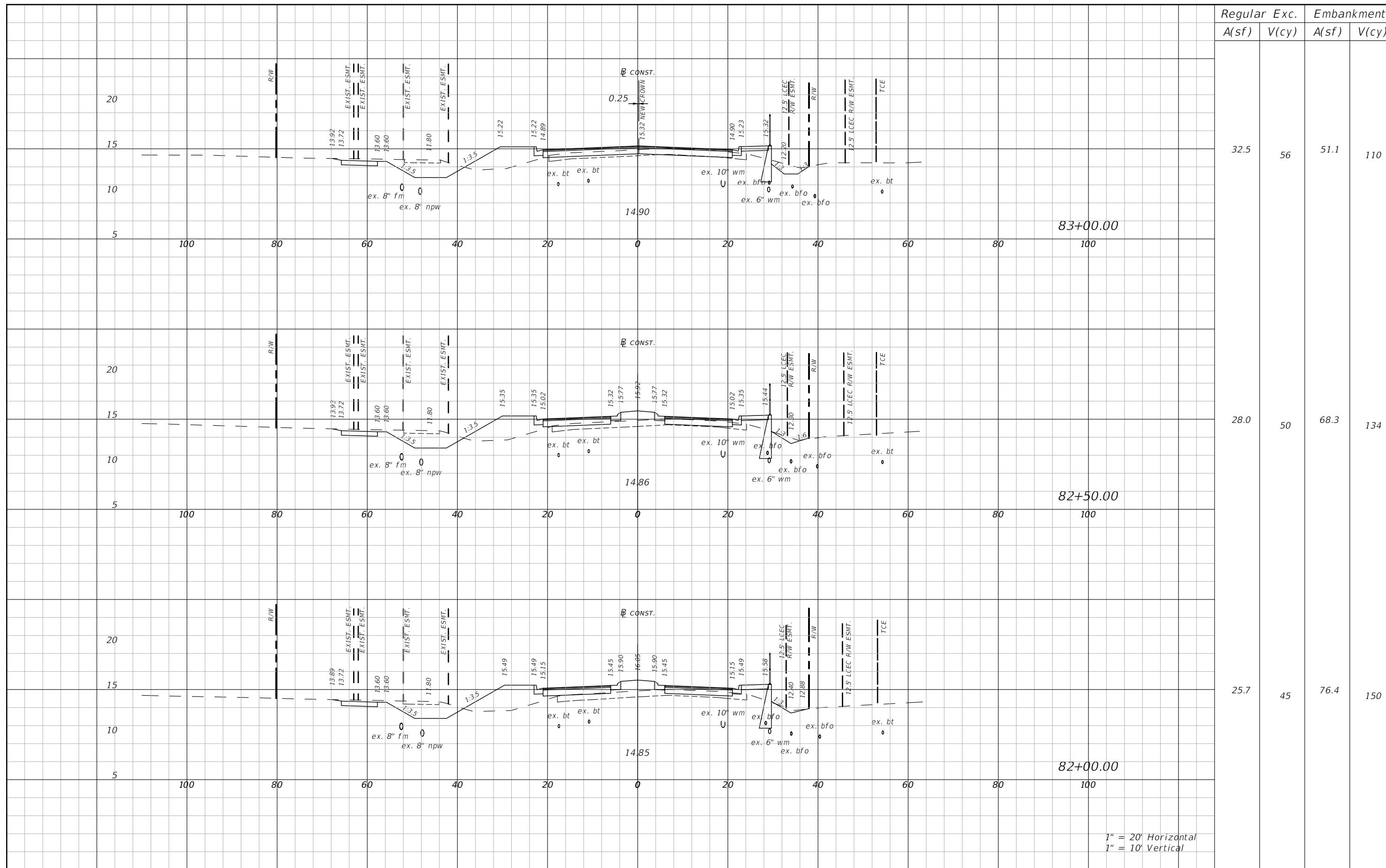
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DEPARTMENT OF TRANSPORTATION

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CROSS SECTIONS

SHEET NO.
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

32.5	56	51.1	110		
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28.0	50	68.3	134		
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25.7	45	76.4	150		
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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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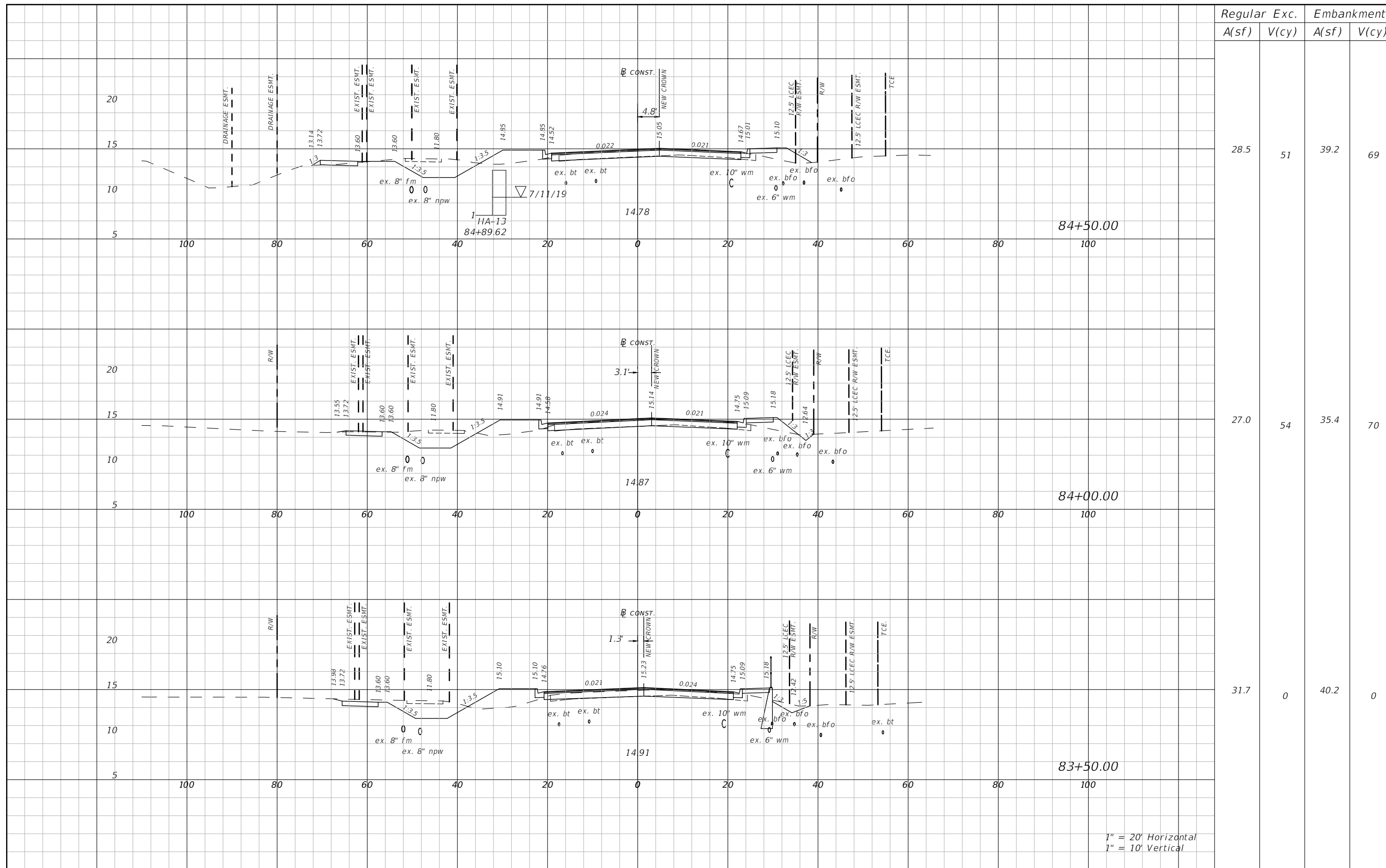
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

28.5	51	39.2	69		
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27.0	54	35.4	70		
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31.7	0	40.2	0		
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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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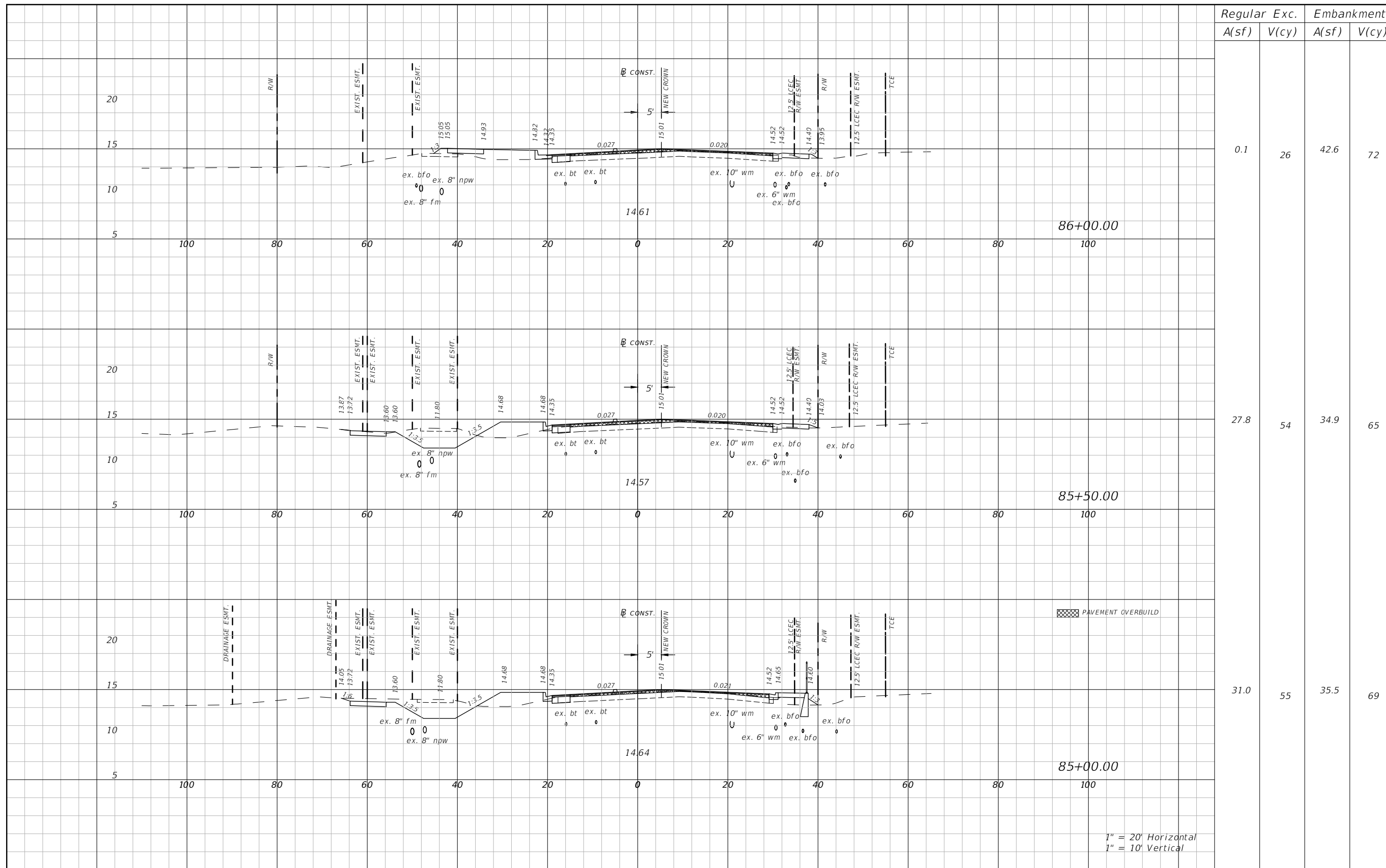
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

0.1	26	42.6	72		
27.8	54	34.9	65		
31.0	55	35.5	69		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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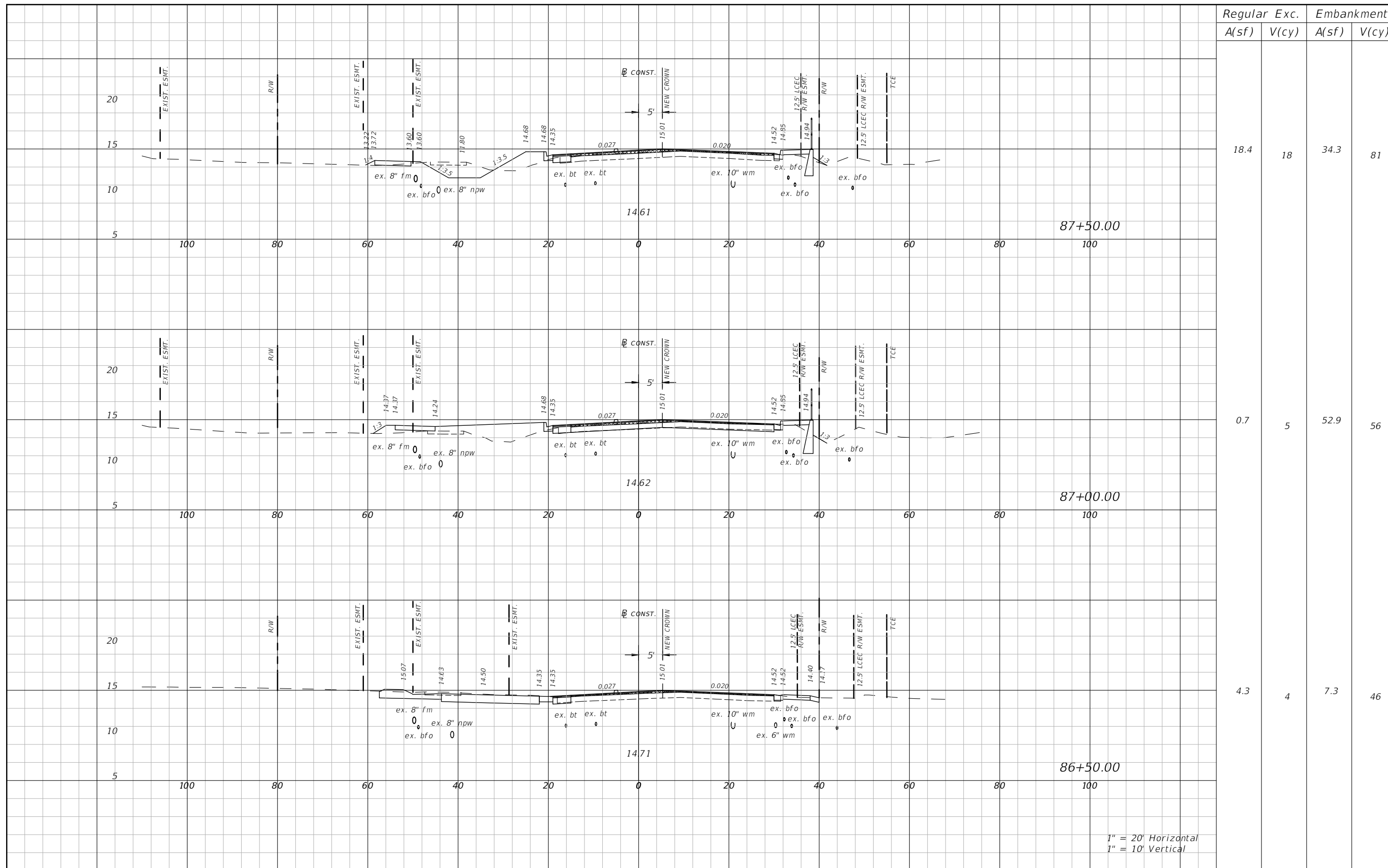
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

18.4 18 34.3 81

0.7 5 52.9 56

4.3 4 7.3 46

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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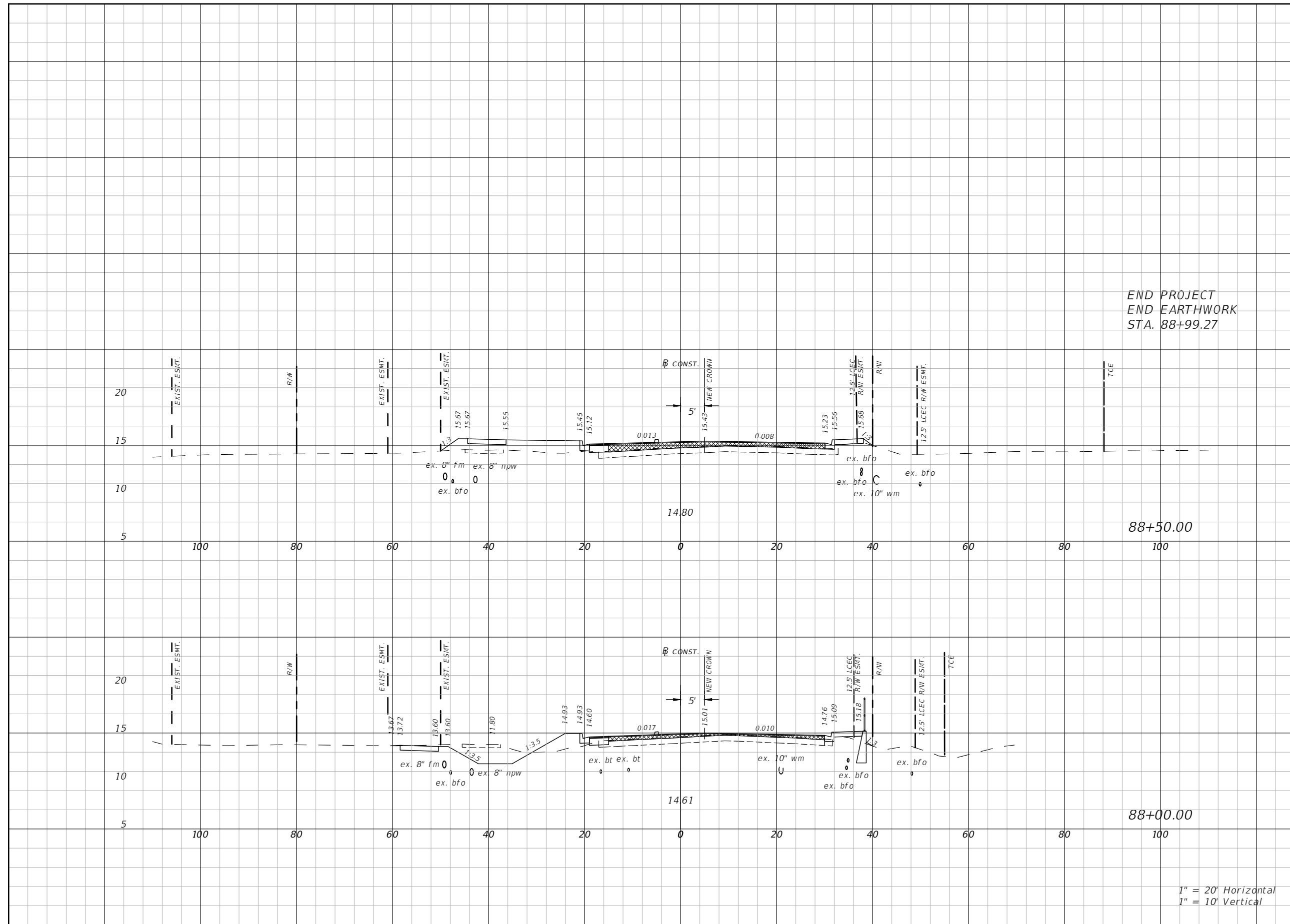
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



END PROJECT
END EARTHWORK
STA. 88+99.27

1.6 24 29.2 49

24.2 39 23.5 54

1" = 20' Horizontal
1" = 10' Vertical

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THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS PROVIDED TO ASSIST THE CONTRACTOR IN DEVELOPING THE REQUIRED SITE SPECIFIC EROSION CONTROL PLAN AND OTHER ITEMS NECESSARY TO OBTAIN COVERAGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERIC PERMIT (CGP). REFER TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL FOR ADDITIONAL REQUIREMENTS.

1.0 SITE DESCRIPTION:

(1.A.) NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT INCLUDES WIDENING OF LITTLETON ROAD FROM CORBETT ROAD TO US 41 INTERSECTION IN LEE COUNTY. THIS INVOLVES THE CONSTRUCTION OF LITTLETON ROAD TO A THREE LANE URBAN ROADWAY, CONSTRUCTING SIDEWALKS, ADDING CURB AND GUTTER AND CONSTRUCTING PONDS. THE PROJECT EXTENDS A DISTANCE OF 1.21 MILES.

(1.B.) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN, PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. FOR ADDITIONAL INFORMATION, REFER TO SECTION 4.7 OF THE NPDES CGP.

LIST OF INTENDED ACTIVITIES:

(I.B.1.) FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS PRIOR TO CLEARING AND GRUBBING OR ANY OTHER CONSTRUCTION ACTIVITIES. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

(I.B.2.) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CHANGES OR WEATHER EVENTS.

(I.B.3.) PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.

(I.B.4.) OFFSITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.

(1.C.) PROJECT AREA ESTIMATES:

TOTAL SITE AREA: 18.24 ACRES.
TOTAL AREA TO BE DISTURBED: 17.27 ACRES.

(1.D.) RUNOFF DATA:

RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION.

RUNOFF COEFFICIENTS FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw (B) = 0.55 DURING: Cw (D) = 0.55-0.61 AFTER: Cw (A) = 0.61

THE RUN-OFF COEFFICIENT Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

SOIL DATA:

THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE SHEET NUMBER IS IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE:

SOIL TYPE HYDROLOGIC GROUP DEPTH TO SHGW
7 - MATLACHA-URBAN LAND COMPLEX (22.3%)
42 - WABASSO SAND (2.3%)
50 - OLDSMAR FINE SAND (4%)
59 - URBAN LAND (21%)
74 - BOCA FINE SAND (3.1%)
116 - ISLES FINE SAND (0.1%)
126 - OLDSMAR FINE SAND (25.6%)
138 - WABASSO SAND (21.6%)
REFERENCE: USDA SOIL SURVEY OF LEE COUNTY FLORIDA

OUTFALL INFORMATION:

THERE ARE TWO (2) OUTFALLS FOR THE PROJECT

THE OUTFALLS DISCHARGE INTO THE FOLLOWING BASIN:

BASIN	WBID	PARAMETER(S) OF CONCERN FOR 303(d) LISTING
YELLOW FEVER CREEK	3240E	BASIN NOT LISTED

OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT) EXISTING

DESCRIPTION	DRAINAGE AREA	LATITUDE	LONGITUDE	RECEIVING WATERBODY
(a) 1 - 36" CMP	8.02 AC	N 26° 41' 49"	W 81° 55' 10"	YELLOW FEVER CREEK
(b) 1 - 36" RCP	5.35 AC	N 26° 41' 49"	W 81° 54' 27"	YELLOW FEVER CREEK EB
(c) 1 - 24" RCP	2.63 AC	N 26° 41' 48"	W 81° 54' 27"	YELLOW FEVER CREEK EB
(d) 1 - 24" RCP	3.10 AC	N 26° 41' 48"	W 81° 54' 27"	YELLOW FEVER CREEK EB

PROPOSED

(e) 1 - 36" RCP	9.02 AC	N 26° 41' 49"	W 81° 55' 10"	YELLOW FEVER CREEK
(f) 1 - 36" RCP	6.86 AC	N 26° 41' 49"	W 81° 54' 27"	YELLOW FEVER CREEK EB
(g) 1 - 24" RCP	3.30 AC	N 26° 41' 48"	W 81° 54' 27"	YELLOW FEVER CREEK EB
(h) 1 - 24" RCP	1.59 AC	N 26° 41' 48"	W 81° 54' 27"	YELLOW FEVER CREEK EB

WETLAND AND/OR SURFACE WATER IMPACTS SHALL BE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(1.E.) SITE MAP:

THE SITE MAP SHALL BE COMPRISED OF THE CONSTRUCTION PLANS AND THE CONTRACTOR'S SITE-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN.

(1.F.) STORMWATER MANAGEMENT (EXISTING/PROPOSED)

(I.F.1.) EXISTING DRAINAGE FLOW ARE CHANNELIZED FROM EAST TO WEST ALONG LITTLETON ROAD TOWARDS THE YELLOW FEVER CREEK OUTFALL AND THEN TYPICALLY NORTH TO SOUTH THROUGH YELLOW FEVER CREEK. THE CROSS SECTION SHEETS AND PLAN-PROFILE SHEETS PROVIDE THE APPROXIMATE SLOPE, AREAS OF SOIL DISTURBANCE AND AREAS TO BE STABILIZED. UNLESS OTHERWISE APPROVED BY THE PERMITS, THE CONSTRUCTION ACTIVITIES SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS.

(I.F.2.) THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY. THE OUTFALL STRUCTURES ARE TO BE PROTECTED WHEN TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS OR PERMANENT STORMWATER MANAGEMENT FACILITIES ARE USED FOR EROSION AND SEDIMENT CONTROL TO PREVENT DOWNSTREAM SEDIMENTATION.

2. CONTROLS:

(2.A.) SEDIMENT AND EROSION CONTROLS

(2.A.1.) PER SECTION 5.4 OF THE NPDES CGP, STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.

(2.A.2.) SEDIMENT BARRIERS SHALL BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
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(2.A.3.) STRUCTURAL PRACTICES

IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES MAY INCLUDE THE FOLLOWING, AS APPROVED BY THE ENGINEER:

TEMPORARY DEVICES:

- * SILT FENCE
- * STAKED TURBIDITY BARRIERS
- * SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS
- * FLOATING TURBIDITY BARRIERS
- * INLET PROTECTION SYSTEMS INCLUDING SYNTHETIC BALES AND SANDBAGS
- * SEDIMENT BASIN/CONTAINMENT SYSTEMS
- * CHEMICAL TREATMENTS SUCH AS POLYACRYLAMIDES AND ALUM

PERMANENT:

- * STORMWATER PONDS
- * SOD (MAY ALSO BE USED FOR TEMPORARY CONTROLS)
- * VELOCITY DISSIPATION DEVICES SUCH AS RIPRAP OR OTHERS

(2.B.) WATER QUALITY MONITORING

- (2.B.1.) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT, OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- (2.B.2.) THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NEPHELOMETRIC TURBIDITY UNITS (NTUs) ABOVE BACKGROUND OR GREATER THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS (OFWs)).
- (2.B.3.) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY. THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTUs ABOVE BACKGROUND OR LESS THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFWs).
- (2.B.4.) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(2.C.) DEWATERING CONTROLS

THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL INCLUDE A DESCRIPTION OF THE BMPs THAT WILL BE USED TO PROVIDE THAT DISCHARGES OF NONCONTAMINATED GROUND WATER FROM DEWATERING OPERATIONS DO NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

(2.D.) OTHER CONTROLS

- (2.D.1.) THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL IDENTIFY CHEMICAL AND FUEL STORAGE AREAS, MEANS OF MINIMIZING EXPOSURE TO STORMWATER, AND SPILL PREVENTION.
- (2.D.2.) OFFSITE VEHICLE TRACKING & GENERATION OF DUST

IN THE EROSION AND SEDIMENT CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

(2.D.2.a.) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN.

(2.D.2.b.) REMOVING EXCESS DIRT FROM ROADS DAILY.

(2.D.2.c.) USING WATER TRUCKS DURING DUST-GENERATING ACTIVITIES.

(2.D.2.d.) SEDIMENT CONTROL MAY BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

3. MAINTENANCE

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. REMOVE AND PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

(3.A.) IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(3.B.) SEDIMENT BARRIERS SHALL BE REPLACED WHEN IT IS NO LONGER EFFECTIVE OR AS DIRECTED BY THE ENGINEER.

(3.C.) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

(3.D.) REMOVE SEDIMENT FROM SEDIMENT BASINS WHEN IT BECOMES MORE THAN HALF THE AVAILABLE VOLUME.

4. INSPECTION, TRACKING, AND REPORTING

INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD RAINFALL.

(4.A.) SUBMIT A WEEKLY REPORT TO THE COUNTY DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

(4.B.) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPORTS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES.

(4.C.) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

5. NON-STORMWATER DISCHARGES

THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES AND DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION. THE PLAN SHALL INCLUDE PROCEDURES FOR SPILL CONTAINMENT, REPORTING AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE COUNTY AND THE ENGINEER. IF A RELEASE CONTAINING HAZARDOUS SUBSTANCES OCCURS, CONTACT THE COUNTY AND ENGINEER.

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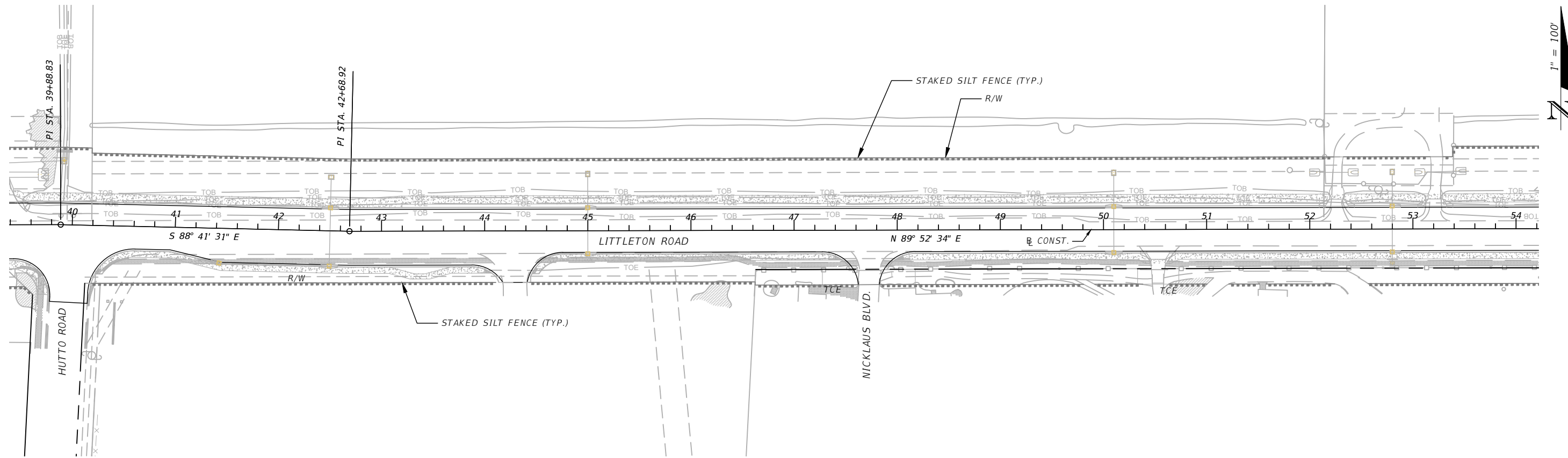
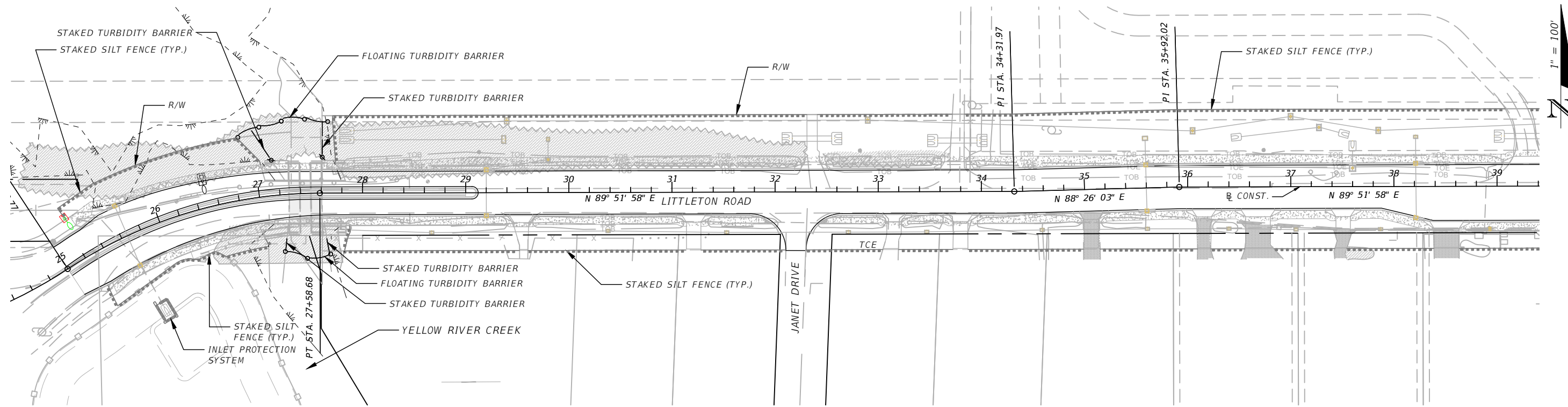
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

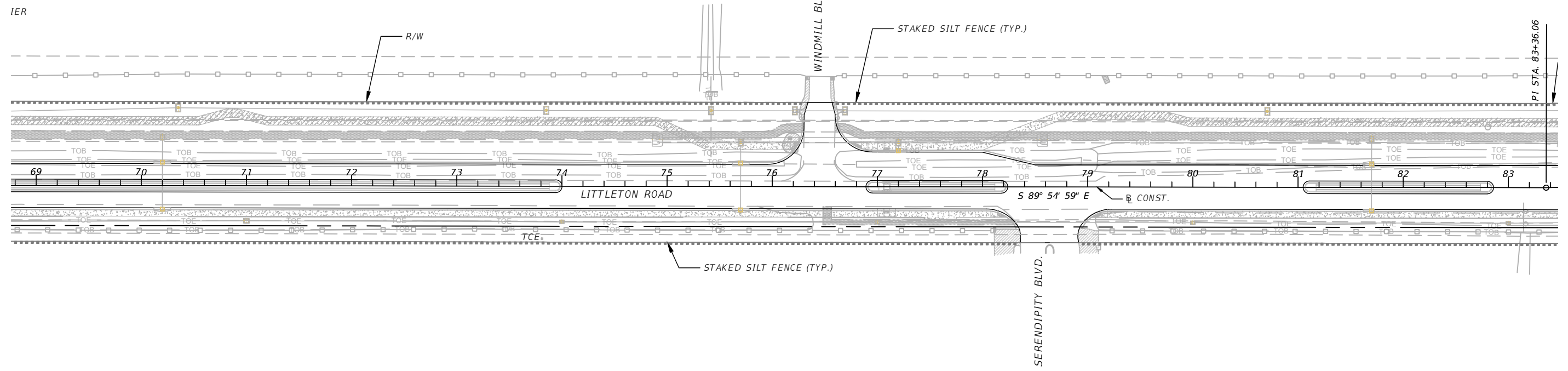
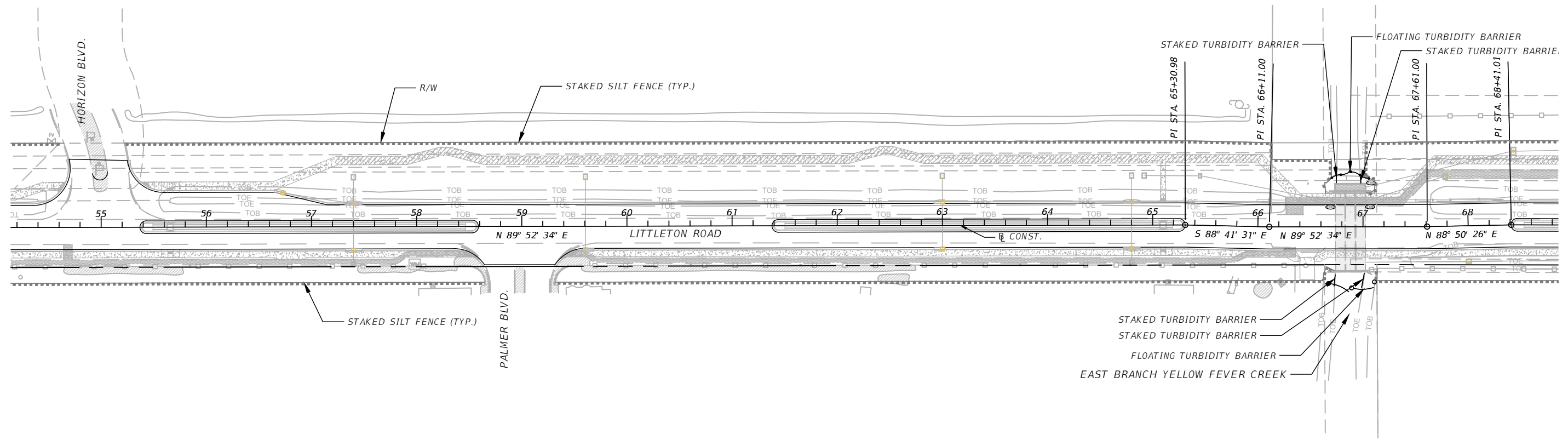
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SWPPP

SHEET NO.
153

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

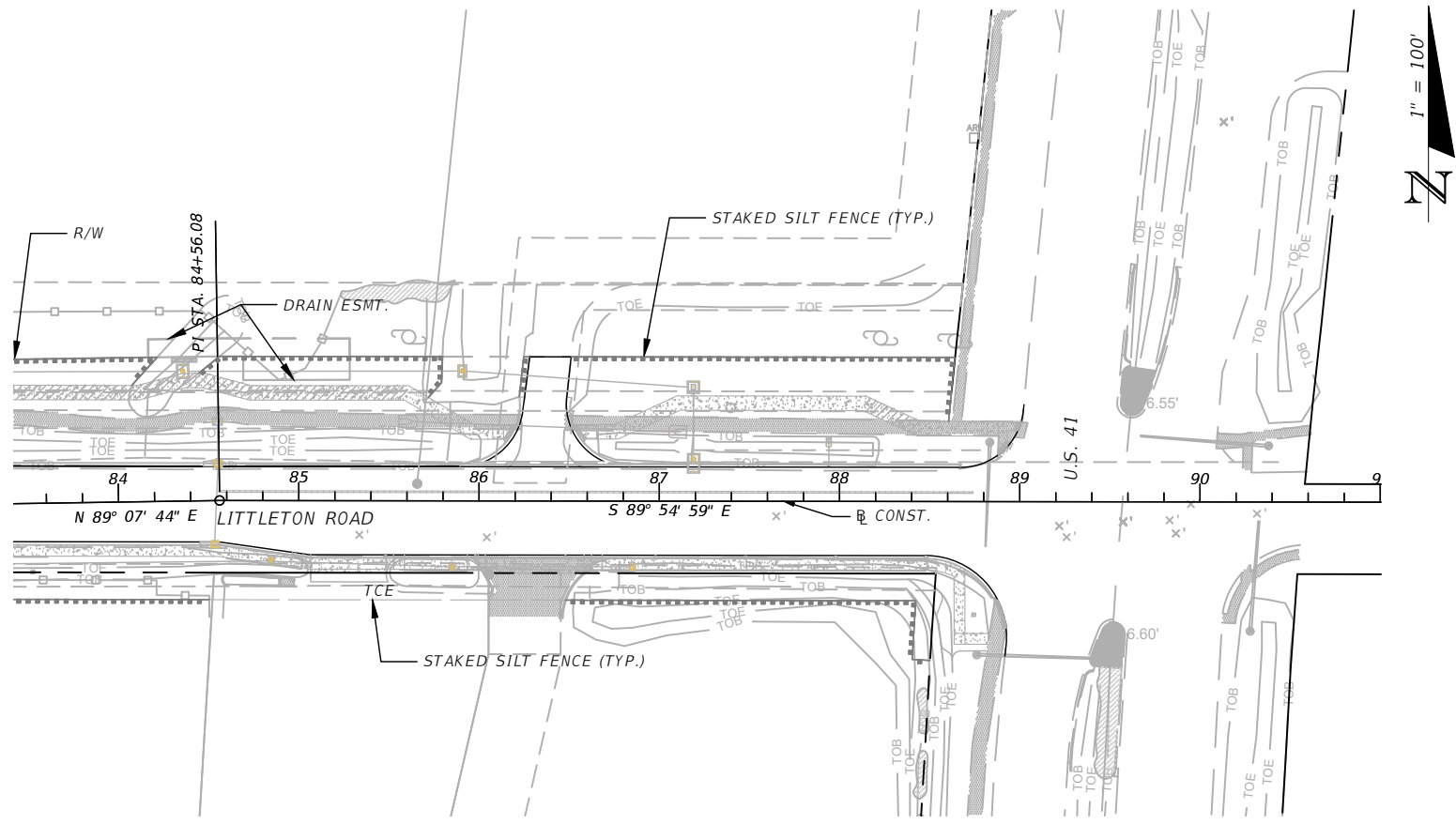
DANIEL M. CRAIG, P.E.
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SWPPP

SHEET NO.
154

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
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 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SWPPP

SHEET NO.
155

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

PROJECT TRAFFIC CONTROL REQUIREMENTS:

THE CONTRACTOR IS HEREBY ADVISED THE FOLLOWING NOTES, SKETCHES AND DIAGRAMS ARE INTENDED AS ONLY GUIDELINES FOR THE CONTRACTOR'S TRAFFIC CONTROL PLAN. THE INFORMATION PRESENTED IS NOT TO BE CONSIDERED A COMPLETE AND DETAILED TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL PROVIDE THE LABOR, EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE AND IMPLEMENT A COMPLETE TRAFFIC CONTROL PLAN PER THE GUIDELINES AND STANDARDS NOTED TO FACILITATE THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL BE SIGNED & SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA WITH ADVANCED MOT CERTIFICATION. THE CONTRACTOR'S TRAFFIC CONTROL PLANS SHALL INCLUDE BUT NOT BE LIMITED TO, SPECIFIC PHASING OF CONSTRUCTION OPERATIONS, TRANSITIONS REQUIRED AT PROJECT BEGIN AND END LOCATION, BOX CULVERT CONSTRUCTION, CONSTRUCTION AND MAINTENANCE OF TEMPORARY AND PERMANENT DRAINAGE, UTILITY RELOCATIONS, PROPOSED LIGHTING AND LANDSCAPE/ IRRIGATION INSTALLATIONS. THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY LCDOT PRIOR TO CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE TRAFFIC CONTROL PLAN, INCLUDING PREPARATION OF THE PLAN SHALL BE INCLUDED WITH THE LUMP SUM MAINTENANCE OF TRAFFIC PAY ITEM.

GENERAL NOTES

1. THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE 2021-22 FDOT STANDARD PLANS (102-100 & 102-600 SERIES), AND THE JULY 2021 FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.
2. REGULATORY SPEED ESTABLISHED DURING CONSTRUCTION FOR LITTLETON ROAD SHALL BE 40 M.P.H.
3. ARROWS IN THE TRAFFIC CONTROL PLANS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
4. LOCATIONS OF ADVANCE WARNING AND OTHER RELATED CONSTRUCTION SIGNS SHALL BE POSITIONED APPROPRIATELY CONSIDERING THE EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL COORDINATE ALL SEASONAL, WEEKEND AND SPECIAL EVENTS AS THEY OCCUR. DURING GOVERNMENT CELEBRATED HOLIDAYS, HURRICANE OR OTHER CATASTROPHIC EVENTS, NO LANE CLOSURES ARE ALLOWED. ALL OTHER LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE COUNTY.
6. THE CONTRACTOR IS TO MAINTAIN SAFE ACCESS FOR PEDESTRIANS, PEDESTRIAN CROSSWALKS, BICYCLISTS, AND BUS OPERATIONS DURING CONSTRUCTION. UNLESS OTHERWISE NOTED, THESE FEATURES SHALL BE INCLUDED IN THE CONTRACTOR'S TCP. NO SEPARATE PAYMENT SHALL BE MADE FOR INCLUDING BICYCLE AND PEDESTRIAN FEATURES IN CONTRACTOR'S TCP. IF SIDEWALK/BUS STOP CLOSURES ARE NECESSARY, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE COUNTY TO DO SO. IF APPROVAL IS GRANTED THE CONTRACTOR SHALL SIGN APPROPRIATELY USING THE APPROPRIATE FDOT STANDARD PLAN INDEXES.
7. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ANY TEMPORARY CLOSING OF ACCESS PRIOR TO CONSTRUCTION. STOP SIGNS SHALL BE UTILIZED IN ALL PHASES AND RELOCATED AS REQUIRED.
8. TRAFFIC DISRUPTIONS WHICH ARE NOT SHOWN BY THE TRAFFIC CONTROL PLAN, BUT WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT, SHALL BE SUBMITTED IN WRITING TO THE COUNTY AND APPROVAL SHALL BE OBTAINED 72 HOURS PRIOR TO COMMENCEMENT OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, PLANS, CALCULATIONS AND OTHER DATA AS REQUIRED BY THE COUNTY.
9. THE CONTRACTOR SHALL PROVIDE A CREW, ON CALL 24 HOURS PER DAY, TO BE RESPONSIBLE TO ERECT, INSTALL, CONSTRUCT, RELOCATE, MAINTAIN AND REMOVE ALL TRAFFIC CONTROL SIGNING, PAVEMENT MARKING, BARRIERS, BARRICADES AND OTHER DEVICES AS NECESSARY THROUGHOUT THE PROJECT AREA. SAID CREW SHALL RESPOND WITHIN 2 HOURS OF NOTIFICATION BY THE COUNTY.
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION SO AS NOT TO ALLOW THE ACCUMULATION OF WATER ON THE TRAVEL WAY. THIS INCLUDES MAINTAINING THE TEMPORARY AND PERMANENT DRAINAGE FACILITIES.
11. UTILITY/DRAINAGE RELOCATIONS INCLUDED WITHIN THE PROJECT LIMITS SHALL BE SPECIFICALLY PHASED INTO THIS TRAFFIC CONTROL PLAN AND COORDINATED WITH THE APPROPRIATE COMPANIES/AGENCIES/OWNERS.
12. THE CONTRACTOR SHALL PROVIDE 4 MESSAGE BOARDS TO BE LOCATED ON EACH DIRECTION OF TRAFFIC 2 WEEKS PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH LCDOT FOR SPECIFIC REQUIREMENTS.

13. DAY TIME LANE CLOSURES SHALL NOT OCCUR ON EITHER LITTLETON RD OR US 41. AUTHORIZATION, WHICH MAY OR MAY NOT BE GRANTED, FROM LEE COUNTY WILL BE REQUIRED FOR LANE CLOSURES ON LITTLETON RD AND FROM FDOT ON US41.
14. ANY ROAD CLOSURES SHALL BE COORDINATED AHEAD OF TIME WITH LCDOT, LEE COUNTY EMS AT 239-533-3911, FIRE DEPT. AT 239-997-8654, AND SHERIFF OFFICE AT 239-477-1810. BUST STOP CLOSURE TO BE COORDINATED WITH LEETRAN AT 239-533-0233 (DAWN HUFF).
15. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL OPERATIONS AT THE US 41 INTERSECTION INCLUDING BUT NOT LIMITED TO THE VIDEO VEHICLE DETECTION DURING ALL PHASES OF CONSTRUCTION.
16. THE CONTRACTOR SHALL PREPARE A SEPARATE TRAFFIC CONTROL PLAN FOR THE 40 FEET OF FDOT JURISDICTION RIGHT-OF-WAY, FROM ±STA. 88+53 TO ±STA. 88+93. THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY LCDOT & FDOT PRIOR TO CONSTRUCTION WITHIN THESE LIMITS. THE CONTRACTOR'S TRAFFIC CONTROL PLANS SHALL BE SIGNED & SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA WITH ADVANCED MOT CERTIFICATION. NO WORK WITHIN THESE LIMITS IS TO BE PERFORMED UNTIL LCDOT & FDOT APPROVAL IS RECEIVED.
17. PHASING I THROUGH V IS FOR WORK LOCATED IN STA. 25+00 THROUGH STA. 84+55.48. PHASING A THROUGH E IS FOR WORK LOCATED IN STA. 84+55.48 THROUGH STA. 88+99.27.
18. MAINTAIN TWO LANE/TWO WAY TRAFFIC AT ALL TIMES. TEMPORARY LANE CLOSURES WILL BE EVALUATED BY THE DIRECTOR (LCDOT) AT THE TIME OF REQUEST.
19. IN PHASES A-E, CONTRACTOR TO SCHEDULE MILLING, OVERBUILD AND PAVING OPERATIONS TO ELIMINATE THE NEED FOR BARRIER WALL DUE TO POTENTIAL DROP OFF CONDITIONS BETWEEN LANES. SEE TTC TYPICAL SECTIONS. CONTRACTOR SHALL LIMIT OVERBUILD LIFT THICKNESS ACCORDINGLY AND SEVERAL ITERATIONS OF THE PHASES A-E MAY BE REQUIRED.
20. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF TEMPORARY PAVEMENT, INCLUDING STABILIZATION, BASE, EARTHWORK AND SURFACE PAVEMENT, REQUIRED FOR LANE SHIFTS, DIVERSIONS, OR SPECIAL DETOURS SHALL BE INCLUDED IN THE LUMP SUM MAINTENANCE OF TRAFFIC PAY ITEM (102-1) AND NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY PAVEMENT AND RELATED ITEMS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ANY TEMPORARY PAVEMENT IN REASONABLE CONDITION, UNDER ALL WEATHER CONDITIONS, FOR THE DURATION OF THE LANE SHIFT, DIVERSION OR SPECIAL DETOUR. IF AT ANY TIME THE TEMPORARY PAVEMENT IS POTHOLED, RUTTED, DUSTY, EXCESSIVELY DETERIORATED OR UNSTABLE, AS DETERMINED BY THE CEI AND OR COUNTY, THE CONTRACTOR SHALL CORRECT THE TEMPORARY PAVEMENT AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE.

LITTLETON ROAD NEW CONSTRUCTION PHASING NOTES

STA.25+00.00 TO STA.84+55.48

PHASE I

1. PRIOR TO SETUP OF FULL PHASE I WORK ZONE ON LITTLETON ROAD, USE FDOT STANDARD PLANS 102 AND ESTABLISH WORK ZONE FROM STA.25+00.00 TO STA.84+55.48.
2. PLACE ADVANCE WARNING SIGNS AND ESTABLISH PHASE I WORK ZONE.
3. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) TO ESTABLISH TRAFFIC FLOW ALONG EXISTING TWO-LANE/TWO-WAY TRAFFIC ON LITTLETON ROAD.
4. MAINTAIN TWO-LANE/TWO-WAY TRAFFIC ON THE EXISTING LITTLETON ROAD WHILE CONSTRUCTING NORTH SIDE OF NEW ROADWAY INCLUDING DRAINAGE FACILITIES, LINEAR PONDS, SIDEWALKS AND BOX CULVERTS. MAINTAIN ACCESS TO ALL SIDE STREETS AND DRIVEWAYS ALONG THE ROADWAY.
5. CONTRACTOR TO MAINTAIN EXISTING SIDEWALK OR PROVIDE ALTERNATE PATH ON NORTH SIDE OF ROADWAY UNTIL NEW SIDEWALK CAN BE CONSTRUCTED. CONTRACTOR TO OPEN NEW SIDEWALK ON NORTH SIDE OF ROADWAY AS SOON AS IT IS SAFE TO DO SO.
6. MAINTAIN EXISTING SIDEWALK ALONG SOUTH SIDE OF ROADWAY WHERE PRESENT.

PHASE II

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE II WORK ZONE.
2. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FOR PHASE II.
3. SHIFT WESTBOUND TRAFFIC FROM THE EXISTING LITTLETON ROAD ROADWAY ONTO THE NEWLY CONSTRUCTED ROADWAY. MAINTAIN EASTBOUND TRAFFIC ON EXISTING LITTLETON ROAD ROADWAY. OPEN SIDEWALKS CONSTRUCTED IN PHASE I IF NOT ALREADY OPENED.
4. CONSTRUCT NEW PAVEMENT WITH RELATED DRAINAGE AND TEMPORARY PAVEMENT WITHIN MEDIAN AREA.
5. MAINTAIN ACCESS TO ALL SIDE STREETS AND DRIVEWAYS.
6. MAINTAIN EXISTING SIDEWALK ALONG SOUTH SIDE OF ROADWAY WHERE PRESENT.
7. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND SIGNAGE FOR PHASE III.

PHASE III

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE III WORK ZONE.
2. SHIFT EASTBOUND TRAFFIC TO THE PAVEMENT CONSTRUCTED IN PHASE II. MAINTAIN ACCESS TO ALL SIDE STREETS AND DRIVEWAYS. MAINTAIN EXISTING SIDEWALK ON SOUTH SIDE OF ROADWAY UNTIL IT HAS TO BE CLOSED. OPEN NEW SIDEWALK WHEN IT BECOMES AVAILABLE.
3. CONSTRUCT PORTION OF REMAINING TRAVEL LANE, CURBING, SIDEWALK, DRAINAGE FACILITIES, AND OFFSITE DRAINAGE FACILITIES.
4. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND SIGNAGE FOR PHASE IV.

PHASE IV

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE IV WORK ZONE.
2. SHIFT EASTBOUND TRAFFIC TO THE NEWLY CONSTRUCTED ROADWAY. MAINTAIN ACCESS TO SIDE STREETS AND DRIVEWAYS.
3. REMOVE TEMPORARY PAVEMENT IN MEDIAN AREA. CONSTRUCT MEDIAN AREA. WIDEN, MILL, OVERBUILD AND RESURFACE EAST AND WEST BOUND LITTLETON RD NEAR US 41 INTERSECTION FROM STA. 84+55.48 TO STA. 88+99.27. REFER TO ADDITIONAL NOTES FOR THESE LIMITS.
4. PLACE FRICTION COURSE ON ROADWAY.
5. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND PERMANENT SIGNS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.

PHASE V

1. PLACE THERMOPLASTIC FINAL PAVEMENT MARKINGS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.
2. REMOVE ANY REMAINING TEMPORARY TRAFFIC CONTROL DEVICES.

REVISIONS				DANIEL CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL GENERAL AND PHASING NOTES	SHEET NO. 156
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
----	----				LITTLETON ROAD	LEE	CN190114		

LITTLETON ROAD MILLING AND RESURFACING PHASING NOTES

PHASE A

1. PRIOR TO SETUP OF FULL PHASE A WORK ZONE ON LITTLETON RD, USE FDOT STANDARD PLANS 102 AND ESTABLISH WORK ZONE FROM STA.84+55.48 TO STA.88+99.27.
2. PLACE ADVANCE WARNING SIGNS ON LITTLETON RD AND US 41 AND ESTABLISH PHASE A WORK ZONE.
3. PLACE TEMPORARY PAVEMENT MARKINGS TO ESTABLISH TRAFFIC FLOW ALONG EXISTING TWO-LANE/TWO-WAY TRAFFIC WITH LEFT HAND TURN LANE ON LITTLETON RD.
4. SHIFT AND MAINTAIN TWO-LANE/TWO-WAY TRAFFIC ON THE EXISTING LITTLETON RD TO THE SOUTH. ADJUST SIGNAL DETECTION ZONES FOR SHIFTED LANES.
5. CONSTRUCT WIDENING, CURBING AND DRAINAGE ON NORTH SIDE OF LITTLETON RD FROM STA. 84+55.48 TO STA. 88+99.27. MILL, OVERBUILD AND RESURFACE PORTION OF LITTLETON RD.
6. CONSTRUCT DRAINAGE FACILITIES, LINEAR PONDS, AND SIDEWALKS. MAINTAIN ACCESS TO SIDE STREET ALONG THE ROADWAY.
7. CONTRACTOR TO MAINTAIN EXISTING SIDEWALK OR PROVIDE ALTERNATE PATH ON NORTH SIDE OF ROADWAY UNTIL NEW SIDEWALK CAN BE CONSTRUCTED. CONTRACTOR TO OPEN NEW SIDEWALK ON NORTH SIDE OF ROADWAY AS SOON AS IT IS SAFE TO DO SO.

PHASE B

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE B WORK ZONE.
2. PLACE TEMPORARY PAVEMENT MARKINGS FOR PHASE B.
3. SHIFT AND MAINTAIN TRAFFIC FOR NEW LANE CONFIGURATION. ADJUST SIGNAL DETECTION ZONES FOR SHIFTED LANES.
4. MILL, OVERBUILD AND RESURFACE PORTION OF LITTLETON RD. CONSTRUCT CURBING, SIDEWALK AND DRAINAGE FACILITIES ON SOUTH SIDE OF ROADWAY. OPEN SIDEWALKS CONSTRUCTED IN PHASE B AS SOON AS IT IS SAFE TO DO SO.
5. MAINTAIN ACCESS TO ALL DRIVEWAYS.
6. PLACE TEMPORARY PAVEMENT MARKINGS AND SIGNAGE FOR PHASE C.

PHASE C

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE C WORK ZONE.
2. MAINTAIN WESTBOUND TRAFFIC AS IN PHASE B. SHIFT EASTBOUND TRAFFIC TO THE PAVEMENT CONSTRUCTED IN PHASE B AND SHIFT TRAFFIC ON THE EXISTING LITTLETON RD ROADWAY FOR NEW LANE CONFIGURATION. ADJUST SIGNAL DETECTION ZONES FOR SHIFTED LANES.
3. MILL, OVERBUILD, AND RESURFACE PORTIONS OF LITTLETON RD.
4. PLACE TEMPORARY PAVEMENT MARKINGS AND SIGNAGE FOR PHASE D.

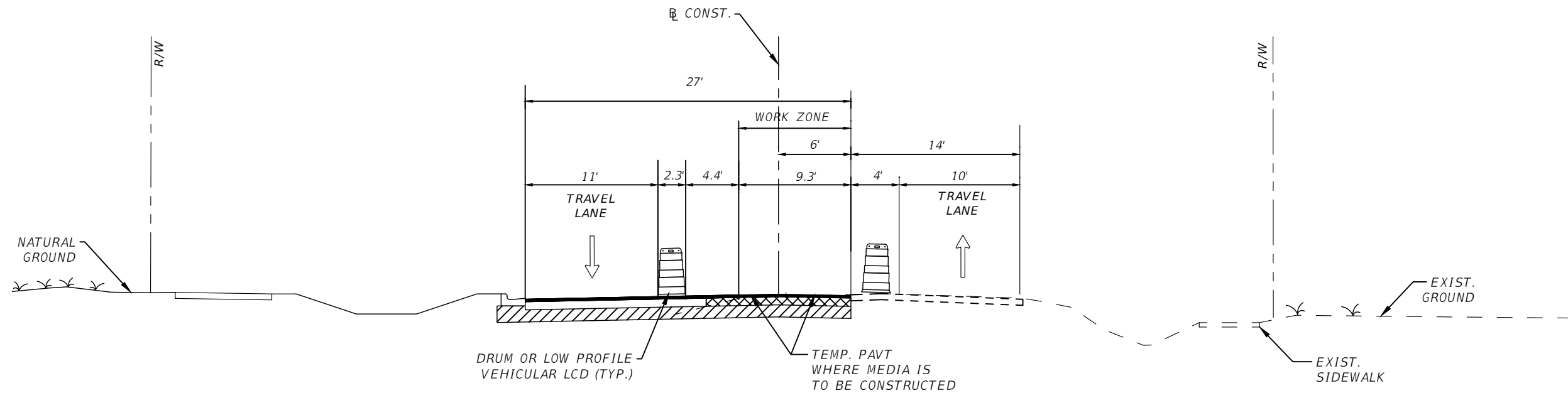
PHASE D

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE D WORK ZONE.
2. SHIFT WESTBOUND TRAFFIC SLIGHTLY SOUTH TO FINAL LANE LOCATION TO ESTABLISH BIKE LANE. SHIFT EASTBOUND TRAFFIC TO THE PAVEMENT CONSTRUCTED IN PHASE B & C. SHIFT EASTBOUND LEFT HAND TURN LANE TO FINAL LANE LOCATION. ADJUST SIGNAL DETECTION ZONES FOR SHIFTED LANES.
3. MILL, OVERBUILD AND RESURFACE PORTIONS OF LITTLETON RD.
4. PLACE TEMPORARY PAVEMENT MARKINGS AND PERMANENT SIGNS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.

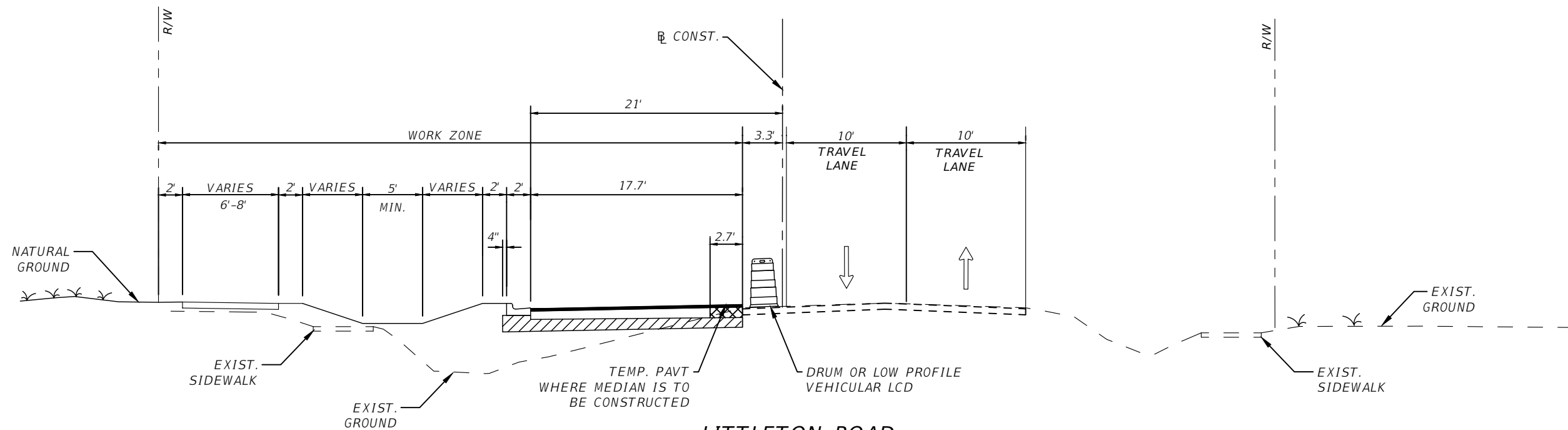
PHASE E

1. PLACE FRICTION COURSE ON ROADWAY. PLACE PAINT PAVEMENT MARKINGS IN THE FINAL LOCATION.
2. PLACE THERMOPLASTIC FINAL PAVEMENT MARKINGS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS. INSTALL QUICK CURB OR EQUIVALENT IN THE MEDIAN FROM STA. 84+55.64 TO STA. 88+74.18 AS SHOWN IN ROADWAY PLANS.
3. REMOVE ANY REMAINING TEMPORARY TRAFFIC CONTROL DEVICES.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
----	----				LITTLETON ROAD	LEE	CN190114		

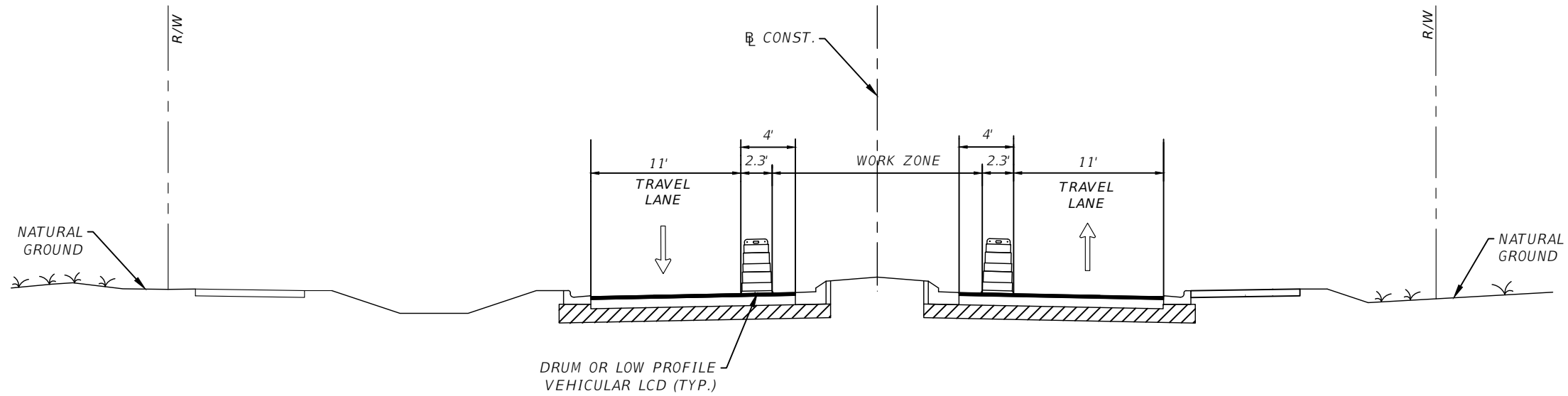


**LITTLETON ROAD
TEMPORARY TRAFFIC CONTROL PHASE II**
N.T.S.

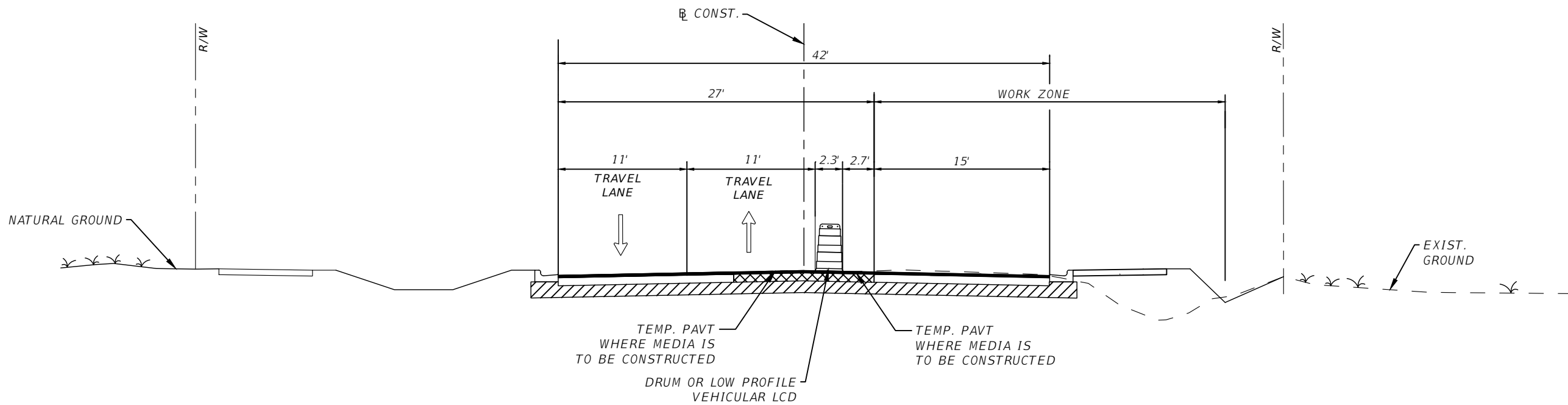


**LITTLETON ROAD
TEMPORARY TRAFFIC CONTROL PHASE I**
N.T.S.

REVISIONS				DANIEL CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
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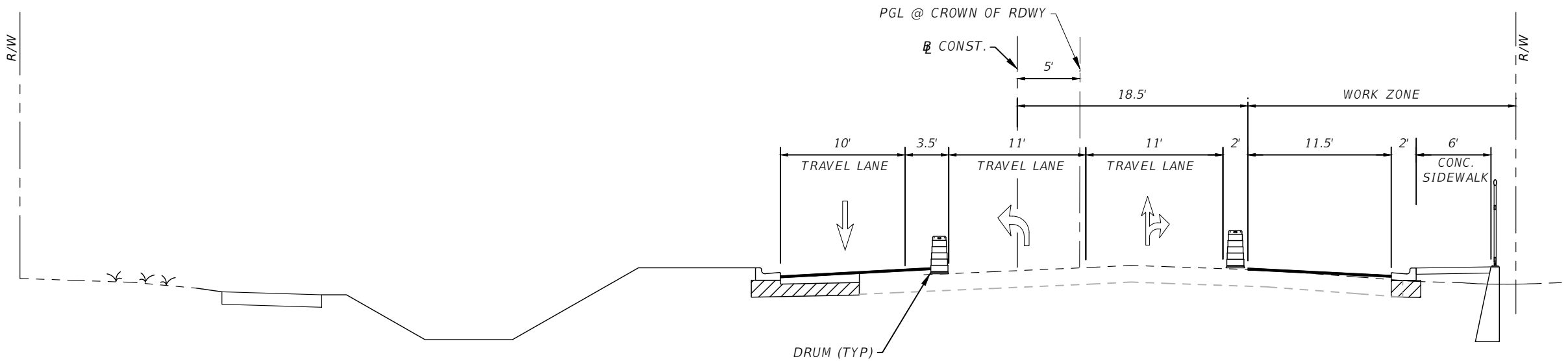


LITTLETON ROAD
 TEMPORARY TRAFFIC CONTROL PHASE IV
 N.T.S.

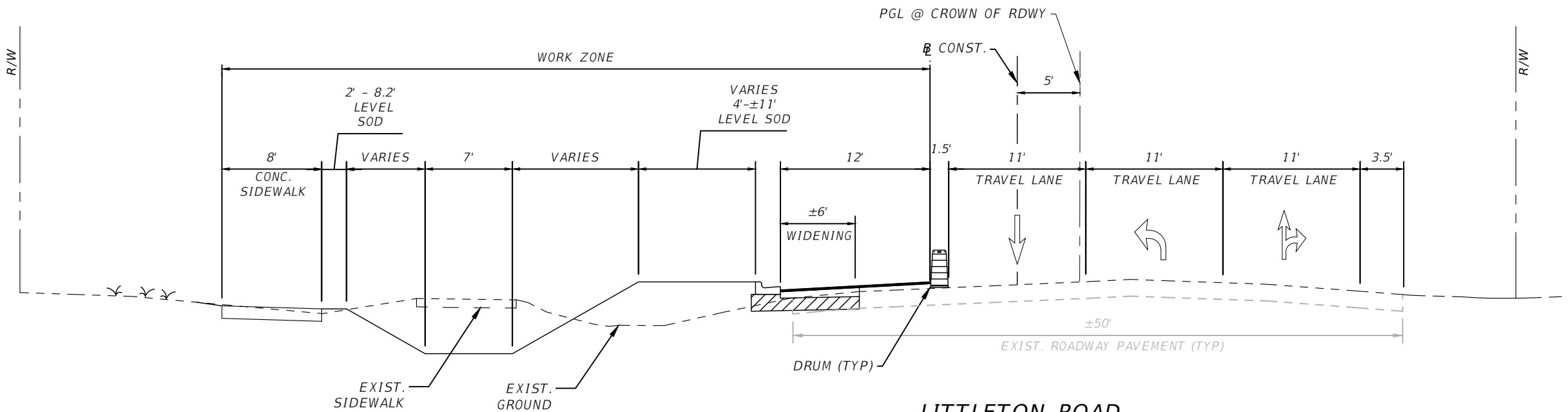


LITTLETON ROAD
 TEMPORARY TRAFFIC CONTROL PHASE III
 N.T.S.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 159
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
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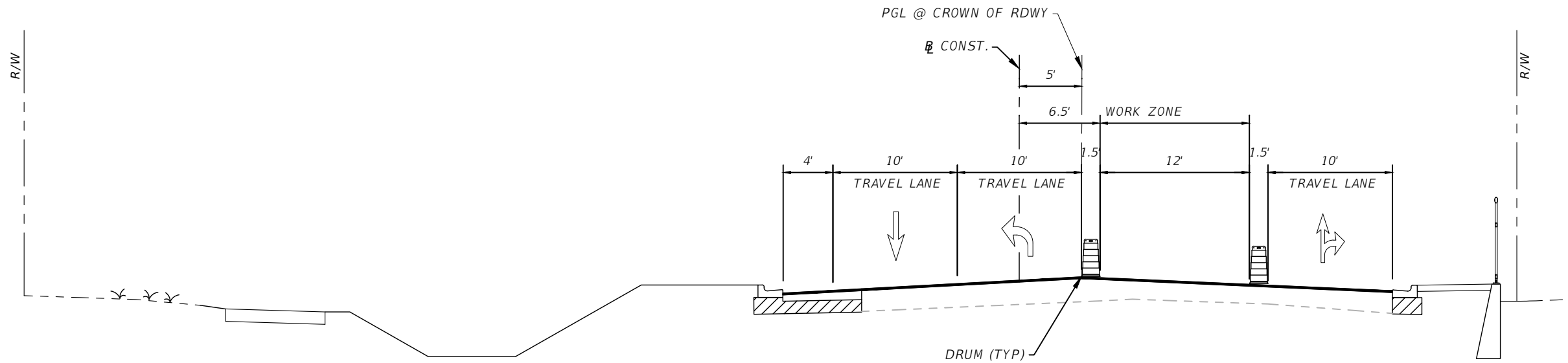


LITTLETON ROAD
TEMPORARY TRAFFIC CONTROL PHASE B
STA. 84+55.48 TO STA. 88+99.27
 N.T.S.

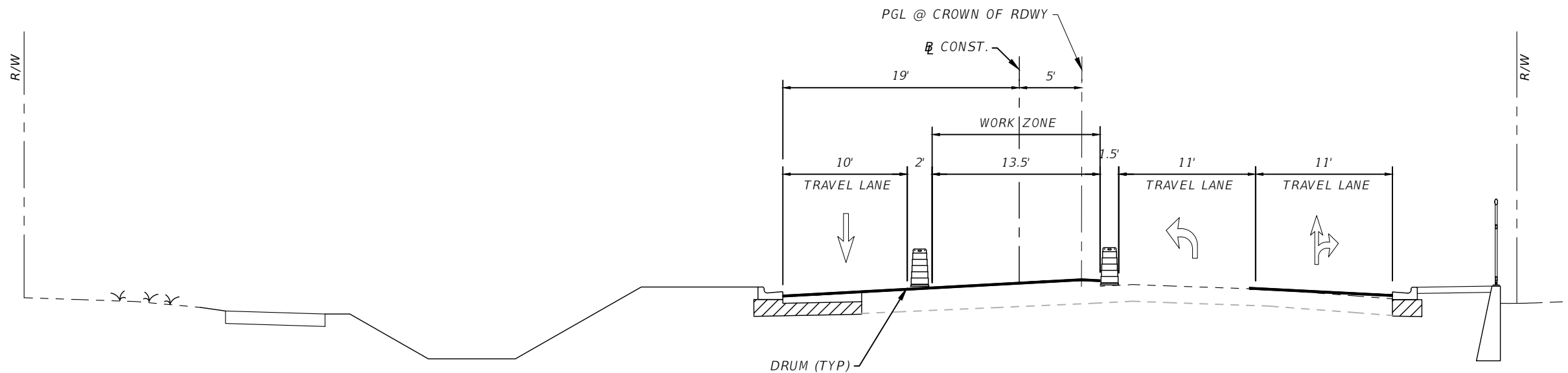


LITTLETON ROAD
TEMPORARY TRAFFIC CONTROL PHASE A
STA. 84+55.48 TO STA. 88+99.27
 N.T.S.

REVISIONS				DANIEL CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 160
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		



LITTLETON ROAD
 TEMPORARY TRAFFIC CONTROL PHASE D
 STA. 84+55.48 TO STA. 88+99.27
 N.T.S.



LITTLETON ROAD
 TEMPORARY TRAFFIC CONTROL PHASE C
 STA. 84+55.48 TO STA. 88+99.27
 N.T.S.

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REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		161
----					LITTLETON ROAD	LEE	CN190114		

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	DDA190005	Date:	9/11/2020
Client Project No.:	190601	Vac Truck/Trailer No.:	55589
Proj. Road Name:	LITTLETON RD	SUE Crew:	A.A., J.A.
Proj. Location:	NORTH FORT MYERS	Prepared By:	A.C.
City, County, State:	LEE, FLORIDA	Checked By:	C.C.
		Units:	U.S. Survey Feet
		Datum(s):	Horizontal: NAD 83/11 Vertical: NAVD 88

Utility Material:		Utility Type:				Station & Offset Measured From:				
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete	32 - Survey B/L				
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb	35 - Swing Tie				
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:						
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt	B - Brick	C - Concrete	G - Gravel	NG - Natural Ground		
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap	R - Rock	S - Shell				
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :						
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve	21 - Hub/Lathe	22 - Nail/Disk (See below)				
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete	24 - Iron Rod & Cap (See below)					
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"						
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"						

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
UNK	09/11/20	1	1/4", UNK, BT	34+57.80	36.95' R	858956.76	683085.63	12.15	0.50	11.65	NA	•	↕	24	NG	NA
UNK	09/11/20	2A	6", PVC, FOC	34+57.29	39.33' R	858954.37	683085.18	12.03	2.31	9.72	NA	●	↕	24	NG	NA
UNK	09/11/20	2B	POSS 4", UNK, UNK	34+57.09	39.55' R	858954.15	683084.98	12.04	2.60	9.44	NA	●	↕	24	NG	NA

Notes:
 TH-1 BT LINE NOT IN CASING. FOUND AS JUST WIRE.
 PIPE 2B FOUND UNDERNEATH 2A, UNABLE TO FULLY IDENTIFY, WATERLOGGED.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION	SUMMARY OF VERIFIED UTILITIES	SHEET NO. 162
DATE	DESCRIPTION	DATE	DESCRIPTION				
---	---	---	---				

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	DDA190005
Client Project No.:	190601
Proj. Road Name:	LITTLETON
Proj. Location:	NORTH FORT MYERS
City, County, State:	LEE, FLORIDA

Date:	9/16/2020		
Vac Truck/Trailer No.:	55589		
SUE Crew:	R.P.,A.A.,J.A.		
Prepared By:	A.C.		
Checked By:	C.C.		
Units:	U.S. Survey Feet		
Datum(s):	Horizontal:	NAD 83/11	Vertical: NAVD 88

Utility Material:		Utility Type:		Station & Offset Measured From:		
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete	32 - Survey B/L
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb	35 - Swing Tie
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:		
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground		
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap R - Rock S - Shell		
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :		
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)		
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete 24 - Iron Rod & Cap (See below)		
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"		
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"		

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
UNK	09/16/20	3	4", PVC, BT	29+15.43	11.23' L	859003.02	682542.23	12.981	2.95	10.03	NA	●	↔	24	NG	NA
UNK	09/16/20	4	3", PVC, BT	33+85.16	58.57' L	859051.45	683011.85	13.284	2.07	11.21	NA	●	↔	24	NG	NA
UNK	09/16/20	5	POSS DUCT BANK, POSS CONC	34+06.30	54.76' L	859047.69	683033.00	11.77	6.22	5.55	NA	□	↔	24.00	NG	NA
UNK	09/16/20	5A	POSS DUCT BANK, POSS CONC	34+06.30	54.76' L	859047.69	683033	11.768	5.39	6.38	NA	□	↔	24	NG	NA
UNK	09/16/20	6	4", PVC, BT	37+98.35	46.16' R	858951.69	683425.23	13.467	2.60	10.87	NA	●	↔	24	NG	NA
	09/16/20	7														
LCU	09/16/20	8	POSS 12", PVC, WM	40+04.12	55.27' L	859053.2	683632.14	12.991	2.95	10.04	NA	●	↔	24	NG	NA

Notes:	TH-7 NOT FOND DUE TO WALL CAVE IN.
	TH-9 DRY HOLE 30' WEST OF TH-10

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF VERIFIED UTILITIES	SHEET NO. 163
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---				LITTLETON ROAD	LEE	CN190114		

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
 Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

Date: 9/22/2020
Vac Truck/Trailer No.:
SUE Crew: R.P., J.A.
Prepared By: A.C.
Checked By: C.C.
Units: U.S. Survey Feet
Datum(s): **Horizontal:** NAD 83/11 **Vertical:** NAVD 88

T2 Project No.: CR00701600
Client Project No.: 190601
Proj. Road Name: LITTLETON RD
Proj. Location: NORTH FORT MYERS
City, County, State: LEE, FLORIDA

Utility Material:		Utility Type:		Station & Offset Measured From:	
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	35 - Swing Tie	
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	Surface Type:	
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground	
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	RR - Riprap R - Rock S - Shell	
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	Identified By :	
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)	
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	23 - "X" in Concrete 24 - Iron Rod & Cap (See below)	
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"	
				* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"	

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
LCU	09/18/20	10	10", PVC, WM	42+88.16	19.18' L	859011.13	683914.81	12.672	3.33	9.34	NA	●	↔	24	NG	NA
LCU	09/18/20	11	10", PVC, WM	52+69.71	15.83' L	859009.89	684896.37	13.852	3.24	10.61	NA	●	↔	24	NG	NA
	09/18/20	12	EXP													

Notes: TH-12 EXP STOPPED EXCAVATION DUE TO CAVE IN. RAIN SHOWERS AT TIME OF DIG.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF VERIFIED UTILITIES	SHEET NO. 164
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
 Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	CR00701600
Client Project No.:	190601
Proj. Road Name:	LITTLETON RD
Proj. Location:	NORTH FORT MYERS
City, County, State:	LEE, FLORIDA

Date:	9/21/2020		
Vac Truck/Trailer No.:	55589		
SUE Crew:	R.P.,J.A.,A.A.		
Prepared By:	A.C.		
Checked By:	C.C.		
Units:	U.S. Survey Feet		
Datum(s):	Horizontal:	NAD 83/11	Vertical: NAVD 88

Utility Material:		Utility Type:				Station & Offset Measured From:				
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical		BT - Buried Telephone		30 - Edge Of Pavement 31 - "X" in Concrete 32 - Survey B/L				
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory		CATV - Cable Television		33 - C/L of Construction 34 - Back of Curb 35 - Swing Tie				
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line		CW - Chilled Water		Surface Type:				
Copper	DIP (Ductile Iron Pipe)	FM - Force Main		FOC - Fiber Optic Cable		A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground				
Duct	HDPE (High Density PE)	GM - Gas Line		RAW - Raw Water		RR - Riprap R - Rock S - Shell				
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water		RCW - Reclaimed Water		Identified By :				
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation		SAN - Sanitary Sewer		20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)				
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light		STM - Storm Sewer		23 - "X" in Concrete 24 - Iron Rod & Cap (See below)				
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal		WM - Water Main		* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"				
UNK (Unknown)	PL Petroleum	UNK - Unknown				* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"				

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
LCU	09/21/20	13	8", PVC, RCW	67+31.70	48.22' L	859043.45	686358.26	14.399	2.30	12.10	NA	●	↔	24	NG	NA
LCU	09/21/20	14	8", PVC, RCW	67+50.54	48.93' L	859044.2	686377.09	14.251	2.27	11.98	NA	●	↔	24	NG	NA
LCU	09/21/20	15	8", PVC, FM	67+50.49	54.38' L	859049.65	686377.04	14.226	2.30	11.93	NA	●	↔	24	NG	NA
LCU	09/21/20	16	8", PVC, FM	73+78.18	53.20' L	859049.33	687004.9	13.714	2.55	11.16	NA	●	↔	24	NG	NA
LCU	09/21/20	17	8" PVC, RCW	73+77.88	44.84' L	859040.97	687004.59	13.556	2.34	11.22	NA	●	↔	23	C	4"
LCU	09/21/20	18	8", PVC, FM	80+82.32	52.42' L	859047.52	687709.05	13.623	3.10	10.52	NA	●	↔	24	NG	NA
LCU	09/21/20	19	8" PVC, RCW	80+81.71	47.92' L	859043.02	687708.43	13.614	3.24	10.37	NA	●	↔	23	C	5"

Notes:	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SUMMARY OF VERIFIED UTILITIES

SHEET NO.
165

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	CR00701600
Client Project No.:	190601
Proj. Road Name:	LITTLETON RD
Proj. Location:	NORTH FORT MYERS
City, County, State:	LEE, FLORIDA

Date:	9/22/2020
Vac Truck/Trailer No.:	55589
SUE Crew:	R.P.,A.A.,J.A.
Prepared By:	A.C.
Checked By:	C.C.
Units:	U.S. Survey Feet
Datum(s):	Horizontal: NAD 83/11 Vertical: NAVD 88

Utility Material:		Utility Type:		Station & Offset Measured From:			
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete	32 - Survey B/L	
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb	35 - Swing Tie	
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:			
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground			
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap R - Rock S - Shell			
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :			
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)			
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete 24 - Iron Rod & Cap (See below)			
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"			
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"			

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
LCU	09/22/20	20	8", PVC, FM	85+78.56	46.47' L	859042.85	688205.26	14.23	4.22	10.01	NA	●	↔	23	C	5"
LCU	09/22/20	21	8", PVC, RCW	86+56.27	41.16' L	859037.43	688282.96	14.49	4.08	10.41	NA	●	↔	23	C	9"
LCU	09/22/20	22	8", PVC, WM	84+81.52	28.39' R	858968.13	688108.11	13.89	3.40	10.49	NA	●	↔	22	A	7"
UNK	09/22/20	23	17", PVC, DUCT BANK	84+81.46	33.93' R	858962.59	688108.04	13.28	2.70	10.58	NA	●	↔	24	NG	NA
UNK	09/22/20	24	1", BT	84+91.69	38.58' R	858957.94	688108.27	13.21	2.27	10.94	NA	●	↔	24	NG	NA
UNK	09/22/20	24A	1", BT	84+91.69	38.58' R	858957.94	688108.27	13.21	2.10	11.11	NA	●	↔	24	NG	NA
LCU	09/22/20	25	8", PVC, WM	84+70.20	28.31' R	858968.23	688096.80	14.08	3.44	10.64	NA	●	↔	24	NG	NA
UNK	09/22/20	26	15", DUCT BANK, PVC	84+70.43	33.88' R	858962.66	688097.01	13.60	2.66	10.94	NA	●●●●	↔	24	NG	NA
UNK	09/22/20	27	1", DBC, FOC	84+70.49	37+82' R	858958.72	688097.07	13.34	2.31	11.03	NA	●	↔	24	NG	NA

Notes:	TH-23 DUCT BANK CONTAINS 2 POSS 4" BT AND 2 POSS 2" FOC-ALL PVC
	TH-24 BT IS DIRECTLY ON TOP OF TH-24A BT-BOTH DO NOT HAVE CASING (TH-24 2-1' DBC FOC C-2.10+2.27)
	TH-26 DUCT BANK CONTAINS 2 POSS 4" BT AND 2 POSS 2" FOC-ALL DVC

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF VERIFIED UTILITIES	SHEET NO. 166
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	CR00701600
Client Project No.:	190601
Proj. Road Name:	LITTLETON RD
Proj. Location:	NORTH FORT MYERS
City, County, State:	LEE, FLORIDA

Date:	9/24/2020
Vac Truck/Trailer No.:	55589
SUE Crew:	R.P., J.A., A.A.
Prepared By:	A.C.
Checked By:	C.C.
Units:	U.S. Survey Feet
Datum(s):	Horizontal: NAD 83/11 Vertical: NAVD 88

Utility Material:		Utility Type:		Station & Offset Measured From:			
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete	32 - Survey B/L	
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb	35 - Swing Tie	
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:			
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground			
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap R - Rock S - Shell			
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :			
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)			
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete 24 - Iron Rod & Cap (See below)			
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"			
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"			

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
LCU	09/24/20	30	6", PVC, WM	76+73.40	22.03' R	858973.67	687300.01	14.65	2.80	11.85	N/A	●	↔	24	NG	N/A
LCU	09/24/20	30A	10", PVC, WM	76+73.15	19.38' R	858976.31	687299.77	14.64	3.50	11.14	N/A	●	↔	24	NG	N/A
LCU	09/24/20	31	10", PVC, WM	73+74.95	18.92' R	858977.21	687001.57	14.81	2.41	12.40	N/A	●	↔	24	NG	N/A
LCU	09/24/20	32	6", PVC, WM	73+74.91	21.87' R	858974.26	687001.53	14.45	2.28	12.17	N/A	●	↔	24	NG	N/A
UNK	09/24/20	33	3-2", HDPE, POSS FOC	73+74.44	25.11' R	858971.03	687001.05	13.84	3.49	10.35	N/A	●●●	↔	24	NG	N/A
LCU	09/24/20	34	10", PVC, WM	70+77.11	19.04' R	858977.53	686703.73	14.90	2.68	12.22	N/A	●	↔	24	NG	N/A
LCU	09/24/20	35	6", PVC, WM	70+77.60	21.29' R	858975.28	686704.22	14.65	2.40	12.25	N/A	●	↔	24	NG	N/A
UNK	09/24/20	36	3-2", HDPE, FOC	70+75.09	24.09' R	858972.48	686701.71	14.31	3.49	10.82	N/A	●●●	↔	24	NG	N/A
LCU	09/24/20	37	10", PVC, WM	69+98.38	19.52' R	858977.16	686625.00	14.97	2.90	12.07	N/A	●	↔	24	NG	N/A
LCU	09/24/20	38	6", PVC, WM	69+98.55	21.56' R	858975.12	686625.17	14.67	2.70	11.97	N/A	●	↔	24	NG	N/A
UNK	09/24/20	39	3-2", HDPE, FOC	69+99.30	24.68' R	858972.00	686625.91	14.24	3.50	10.74	N/A	●●●	↔	24	NG	N/A

Notes: TH-33 PICTURE LABELED 3-2" PVC POSS FOC, ACTUAL = 3-2" HDPE FOC

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF VERIFIED UTILITIES	SHEET NO. 167
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	PROJECT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	CR00701600	Date:	9/25/2020
Client Project No.:	190601	Vac Truck/Trailer No.:	55589
Proj. Road Name:	LITTLETON RD	SUE Crew:	R.P., J.A., A.A.
Proj. Location:	NORTH FORT MYERS	Prepared By:	A.C.
City, County, State:	LEE, FLORIDA	Checked By:	C.C.
		Units:	U.S. Survey Feet
		Datum(s):	Horizontal: NAD 83/11 Vertical: NAVD 88

Utility Material:		Utility Type:				Station & Offset Measured From:											
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete	32 - Survey B/L											
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb	35 - Swing Tie											
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:													
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt	B - Brick	C - Concrete	G - Gravel	NG - Natural Ground									
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap	R - Rock	S - Shell											
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :													
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve	21 - Hub/Lathe	22 - Nail/Disk (See below)											
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete	24 - Iron Rod & Cap (See below)												
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"													
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"													

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
LCU	09/25/20	40	10", PVC, WM	68+69.77	18.89' R	858977.98	686496.39	14.76	2.94	11.82	N/A	●	↔	24	NG	N/A
LCU	09/25/20	41	6", PVC, WM	68+70.31	21.23' R	858975.64	686496.93	14.59	2.71	11.88	N/A	●	↔	24	NG	N/A
UNK	09/25/20	42	3-2", HDPE, FOC	68+70.03	25.46' R	858971.41	686496.65	13.77	3.37	10.40	N/A	●●●	↔	24	NG	N/A
LCU	09/25/20	43	10", PVC, WM	67+87.54	17.77' R	858978.06	686414.56	14.95	2.97	11.98	N/A	●	↔	24	NG	N/A
LCU	09/25/20	44	6", PVC, WM	67+87.56	20.02' R	858975.81	686414.63	14.79	2.75	12.04	N/A	●	↔	24	NG	N/A
UNK	09/25/20	45	3-2", HDPE, FOC	67+87.58	24.95' R	858970.89	686414.74	13.93	3.35	10.58	N/A	●●●	↔	24	NG	N/A
UNK	09/25/20	46	3-2", HDPE, FOC	80+04.09	26.61' R	858968.61	687630.70	13.86	3.67	10.19	N/A	●●●	↔	24	NG	N/A
UNK	09/25/20	47	15", PVC, DUCT BANK	80+03.75	33.45' R	858961.77	687630.35	13.07	3.12	9.95	N/A	●●●●	↔	24	NG	N/A
LCU	09/25/20	48	6", PVC, WM	80+04.97	22.56' R	858972.65	687631.59	14.46	2.65	11.81	N/A	●	↔	22	A	N/A
LCU	09/25/20	49	10", PVC, WM	80+05.10	19.65' R	858975.57	687631.72	14.66	3.62	11.04	N/A	●	↔	22	A	N/A

Notes: TH-47 (2-3" AND 2-2" LINES)
TH-48 + 49 = NO PICTURES DUE TO CAVE IN AND LINE BREAK.

REVISIONS DATE DESCRIPTION DATE DESCRIPTION				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF VERIFIED UTILITIES	SHEET NO. 168
					ROAD NAME	COUNTY	PROJECT NO.		
				LITTLETON ROAD	LEE	CN190114			

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	CR00701600
Client Project No.:	190601
Proj. Road Name:	LITTLETON RD
Proj. Location:	NORTH FORT MYERS
City, County, State:	LEE, FLORIDA

Date:	9/30/2020		
Vac Truck/Trailer No.:	55589		
SUE Crew:	R.P., J.A., A.A.		
Prepared By:	A.C.		
Checked By:	C.C.		
Units:	U.S. Survey Feet		
Datum(s):	Horizontal:	NAD 83/11	Vertical: NAVD 88

Utility Material:		Utility Type:		Station & Offset Measured From:		
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement	31 - "X" in Concrete	32 - Survey B/L
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction	34 - Back of Curb	35 - Swing Tie
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:		
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground		
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap R - Rock S - Shell		
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :		
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)		
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete 24 - Iron Rod & Cap (See below)		
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"		
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"		

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
LCU	09/30/20	50	10" PVC, WM	64+85.09	18.51' R	858978.18	686111.81	15.48	2.86	12.62	N/A	●	↔	24	NG	N/A
UNK	09/30/20	51	3-2" HDPE, FOC	64+85.18	22.39' R	858974.31	686111.92	15.24	3.43	11.81	N/A	●●●	↔	24	NG	N/A
UNK	09/30/20	52	2" HDPE, FOC	64+85.85	26.21' R	858970.49	686112.60	14.86	3.05	11.81	N/A	●	↔	24	NG	N/A
LCU	09/30/20	53	10" PVC, WM	64+60.81	18.52' R	858978.12	686087.54	15.44	2.84	12.60	N/A	●	↔	24	NG	N/A
UNK	09/30/20	54	3-2" HDPE, FOC	64+61.04	22.16' R	858974.49	686087.78	15.27	3.50	11.77	N/A	●●●	↔	24	NG	N/A
UNK	09/30/20	55	2" HDPE, FOC	64+61.07	25.88' R	858970.77	686087.81	14.86	3.25	11.61	N/A	●	↔	24	NG	N/A
UNK	09/30/20	55A	2&1/4" DBC, UNK, POSS CTV	64+61.05	25.21' R	858971.44	686087.79	14.98	1.31	13.67	N/A	●●	↔	24	NG	N/A
LCU	09/30/20	56	10" PVC, WM	62+94.78	17.41' R	858978.88	685921.50	15.45	2.86	12.59	N/A	●	↔	24	NG	N/A
UNK	09/30/20	57	3-2" HDPE, FOC	62+94.99	21.87' R	858974.42	685921.73	14.95	3.43	11.52	N/A	●●●	↔	24	NG	N/A
UNK	09/30/20	58	2" HDPE, FOC	62+95.31	25.59' R	858970.70	685922.05	14.76	3.19	11.57	N/A	●	↔	24	NG	N/A
LCU	09/30/20	59	8" DIP, WM	59+62.06	23.41' R	858972.15	685588.80	15.00	3.14	11.86	N/A	●	↔	24	NG	N/A
UNK	09/30/20	60	3-2" HDPE, FOC	57+38.80	20.27' R	858974.81	685365.53	15.05	3.35	11.70	N/A	●●●	↔	24	NG	N/A
UNK	09/30/20	61	2" HDPE, FOC	57+38.98	24.17' R	858970.91	685365.72	14.65	2.69	11.96	N/A	●	↔	24	NG	N/A
UNK	09/30/20	62	1" DBC, BT	57+38.81	27.06' R	858968.02	685365.56	14.52	2.62	11.90	N/A	●	↔	24	NG	N/A
UNK	09/30/20	62A	2" PVC, UNK	57+38.77	27.51' R	858967.57	685365.51	14.59	2.46	12.13	N/A	●	↔	24	NG	N/A
UNK	09/30/20	63	3-2" HDPE, FOC	52+69.83	20.32' R	858973.75	684896.56	14.66	3.39	11.27	N/A	●●●	↔	24	NG	N/A
UNK	09/30/20	64	2" HDPE FOC	52+69.79	23.14' R	858970.93	684896.52	14.54	3.14	11.40	N/A	●	↔	24	NG	N/A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	PROJECT NO.
LITTLETON ROAD	LEE	CN190114

SUMMARY OF VERIFIED UTILITIES

SHEET NO.
169

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

T2 UES, Inc.

5670 Zip Drive, Fort Myers, FL 33905
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering Test Hole Field Data

T2 Project No.:	CR00701600
Client Project No.:	190601
Proj. Road Name:	LITTLETON RD
Proj. Location:	NORTH FORT MYERS
City, County, State:	LEE, FLORIDA

Date:	10/1/2020		
Vac Truck/Trailer No.:	55589		
SUE Crew:	R.P., J.A., A.A.		
Prepared By:	A.C.		
Checked By:	C.C.		
Units:	U.S. Survey Feet		
Datum(s):	Horizontal:	NAD 83/11	Vertical: NAVD 88

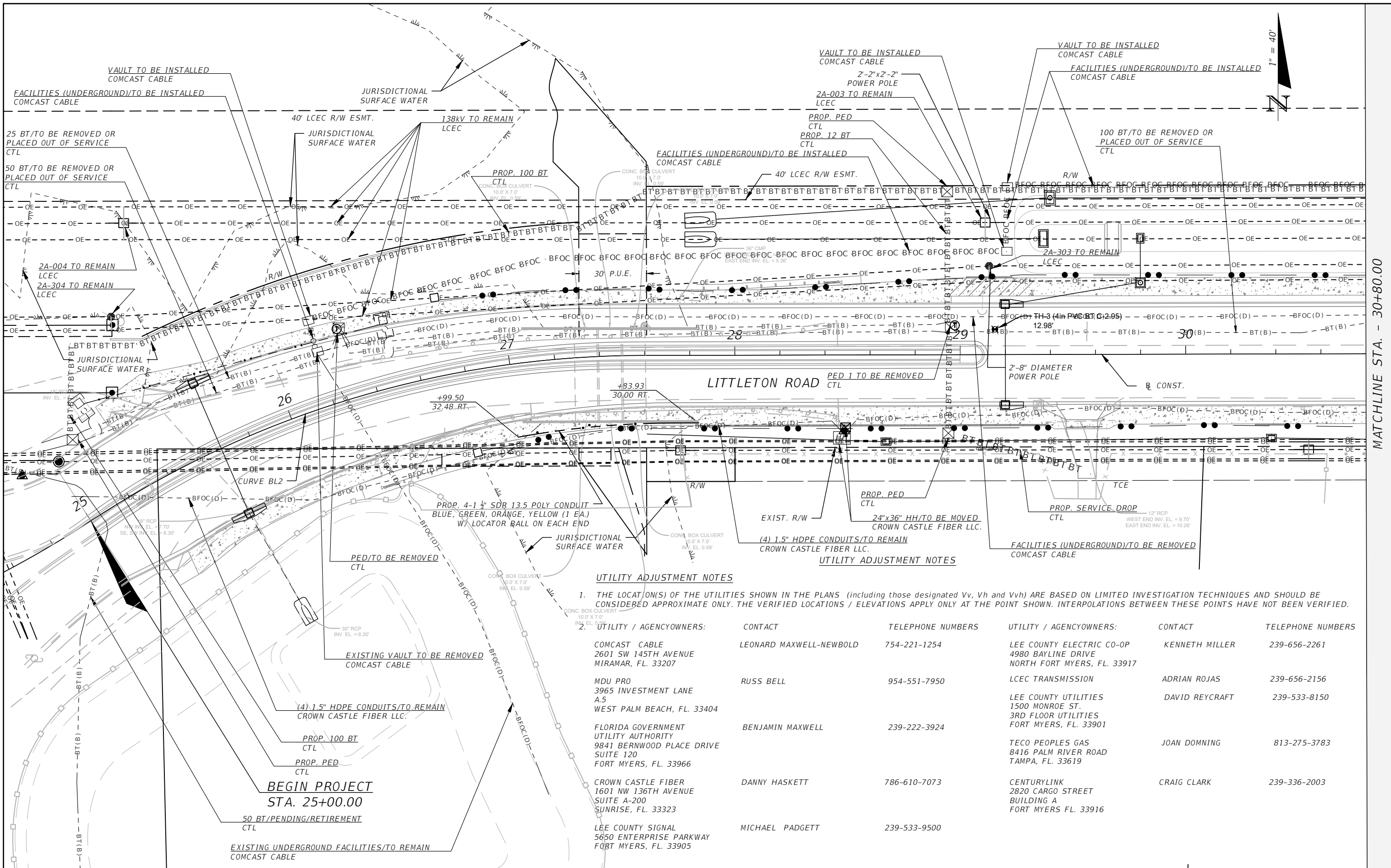
Utility Material:		Utility Type:		Station & Offset Measured From:			
AC (Transite)	CMP (Corrugated Metal Pipe)	BE - Electrical	BT - Buried Telephone	30 - Edge Of Pavement 31 - "X" in Concrete 32 - Survey B/L			
CI (Cast Iron)	CPP (Corrugated Plastic Pipe)	EXP - Exploratory	CATV - Cable Television	33 - C/L of Construction 34 - Back of Curb 35 - Swing Tie			
Conc. (Concrete)	DBC (Direct Buried Cable)	FL - Fuel Line	CW - Chilled Water	Surface Type:			
Copper	DIP (Ductile Iron Pipe)	FM - Force Main	FOC - Fiber Optic Cable	A - Asphalt B - Brick C - Concrete G - Gravel NG - Natural Ground			
Duct	HDPE (High Density PE)	GM - Gas Line	RAW - Raw Water	RR - Riprap R - Rock S - Shell			
Fg (Fiberglass)	PE (Polyethylene Pipe)	HW - Hot Water	RCW - Reclaimed Water	Identified By :			
Galv. (Galvanized)	PVC (Polyvinyl Chloride)	IRR. - Irrigation	SAN - Sanitary Sewer	20 - Sleeve 21 - Hub/Lathe 22 - Nail/Disk (See below)			
Lead	RCP (Reinforced Concrete Pipe)	SL - Street Light	STM - Storm Sewer	23 - "X" in Concrete 24 - Iron Rod & Cap (See below)			
STL (Steel)	VCP (Vitrified Clay Pipe)	TS - Traffic Signal	WM - Water Main	* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"			
UNK (Unknown)	PL Petroleum	UNK - Unknown		* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"			

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
UNK	10/01/20	65	2" DBC, BT	52+69.80	27.41' R	858966.66	684896.55	14.29	3.12	11.17	N/A	●	↔	24	NG	N/A
UNK	10/01/20	65A	2" PVC, UNK	52+69.86	27.79' R	858966.28	684896.61	14.22	2.90	11.32	N/A	●	↔	24	NG	N/A
UNK	10/01/20	66	POSS 4" PVC, UNK	42+49.75	30.65' R	858961.70	683875.75	13.99	4.00	9.99	N/A	N/A	NA	24	NG	N/A
UNK	10/01/20	67	1/4" DBC, CTV	42+50.09	37.06' R	858955.28	683875.94	13.45	3.11	10.34	N/A	●	↔	24	NG	N/A
UNK	10/01/20	68	2" HDPE, FOC	42+50.06	40.89' R	858951.45	683875.82	13.77	2.43	11.34	N/A	●	↔	24	NG	N/A
UNK	10/01/20	69	3-2" HDPE, FOC	42+49.81	32.61' R	858959.73	683875.76	13.81	5.26	8.55	N/A	●	↔	24	NG	N/A
UNK	10/01/20	70	UNK POSS PVC/POSS HDPE UNK	38+95.87	42.51' R	858955.57	683522.73	13.65	3.80	9.85	N/A	N/A	N/A	24	NG	N/A
	10/01/20	71														
LCU	10/01/20	72	10" DIP WM	78+97.19	18.93' R	858976.44	687523.81	14.89	3.56	11.33	N/A	●	↔	22	A	5
LCU	10/01/20	73	6" PVC WM	78+97.28	22.09' R	858973.28	687523.89	14.64	2.34	12.30	N/A	●	↔	22	A	6

Notes: TH-71 OPEN EXPLORATORY, NOTHING FOUND

<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION	---	---	---	---	<p>DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901</p>		<p style="text-align: center;">LEE COUNTY DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NAME</th> <th>COUNTY</th> <th>CONTRACT NO.</th> </tr> </thead> <tbody> <tr> <td>LITTLETON ROAD</td> <td>LEE</td> <td>CN190114</td> </tr> </tbody> </table>		ROAD NAME	COUNTY	CONTRACT NO.	LITTLETON ROAD	LEE	CN190114	<p style="text-align: center;">SUMMARY OF VERIFIED UTILITIES</p>		<p>SHEET NO. 170</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																					
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LITTLETON ROAD	LEE	CN190114																						

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UTILITY ADJUSTMENT NOTES

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (including those designated Vv, Vh and Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS / ELEVATIONS APPLY ONLY AT THE POINT SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

UTILITY / AGENCYOWNERS:	CONTACT	TELEPHONE NUMBERS	UTILITY / AGENCYOWNERS:	CONTACT	TELEPHONE NUMBERS
COMCAST CABLE 2601 SW 145TH AVENUE MIRAMAR, FL. 33207	LEONARD MAXWELL-NEUBOLD	754-221-1254	LEE COUNTY ELECTRIC CO-OP 4980 BAYLINE DRIVE NORTH FORT MYERS, FL. 33917	KENNETH MILLER	239-656-2261
MDU PRO 3965 INVESTMENT LANE A.5 WEST PALM BEACH, FL. 33404	RUSS BELL	954-551-7950	LCEC TRANSMISSION	ADRIAN ROJAS	239-656-2156
FLORIDA GOVERNMENT UTILITY AUTHORITY 9841 BERNWOOD PLACE DRIVE SUITE 120 FORT MYERS, FL. 33966	BENJAMIN MAXWELL	239-222-3924	LEE COUNTY UTILITIES 1500 MONROE ST. 3RD FLOOR UTILITIES FORT MYERS, FL. 33901	DAVID REYCRAFT	239-533-8150
CROWN CASTLE FIBER 1601 NW 136TH AVENUE SUITE A-200 SUNRISE, FL. 33323	DANNY HASKETT	786-610-7073	TECO PEOPLES GAS 8416 PALM RIVER ROAD TAMPA, FL. 33619	JOAN DOMNING	813-275-3783
LEE COUNTY SIGNAL 5650 ENTERPRISE PARKWAY FORT MYERS, FL. 33905	MICHAEL PADGETT	239-533-9500	CENTURYLINK 2820 CARGO STREET BUILDING A FORT MYERS FL. 33916	CRAIG CLARK	239-336-2003

MATCHLINE STA. - 30+80.00

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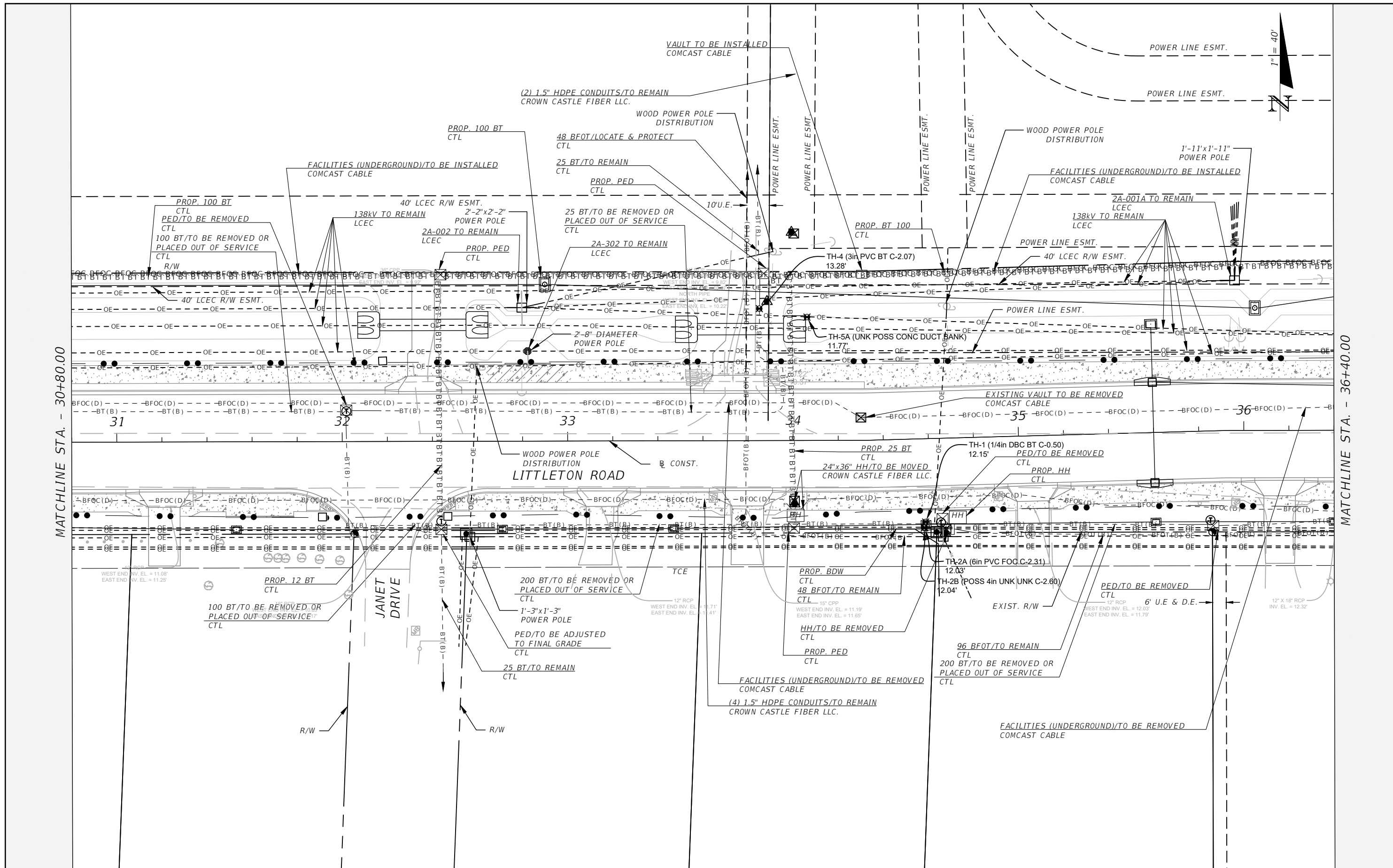
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

UTILITY ADJUSTMENTS

SHEET NO.
171



MATCHLINE STA. - 30+80.00

MATCHLINE STA. - 36+40.00

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 FORT MYERS, FL 33901

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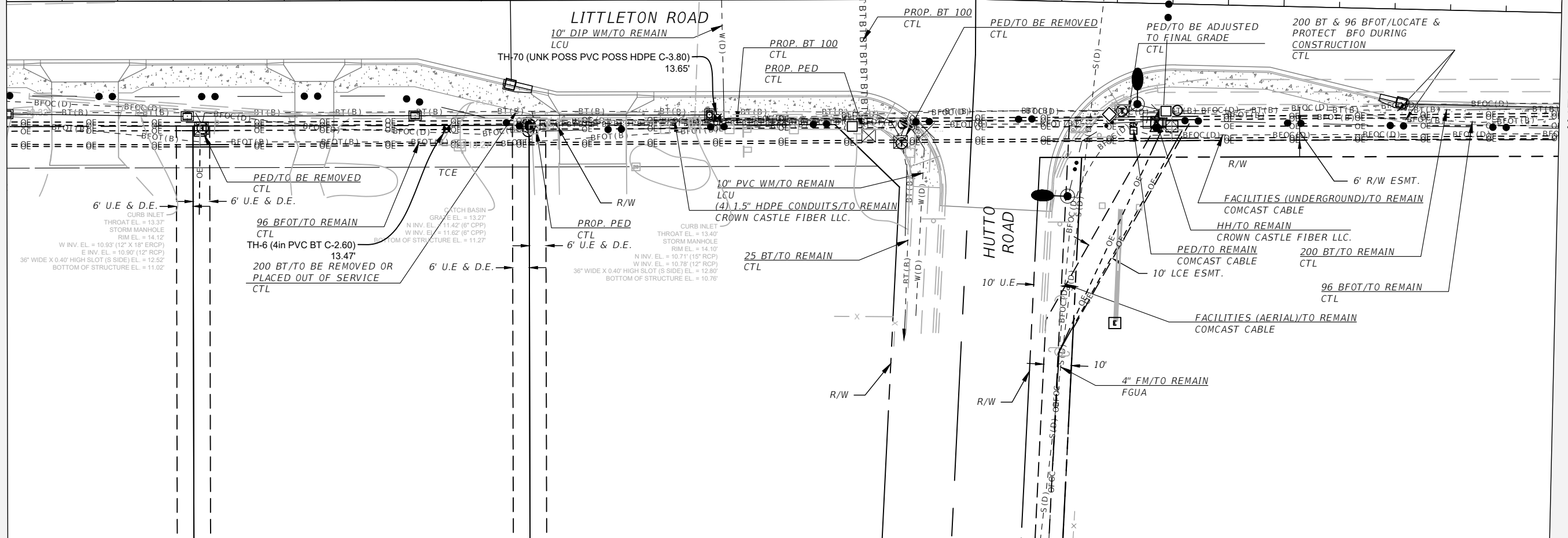
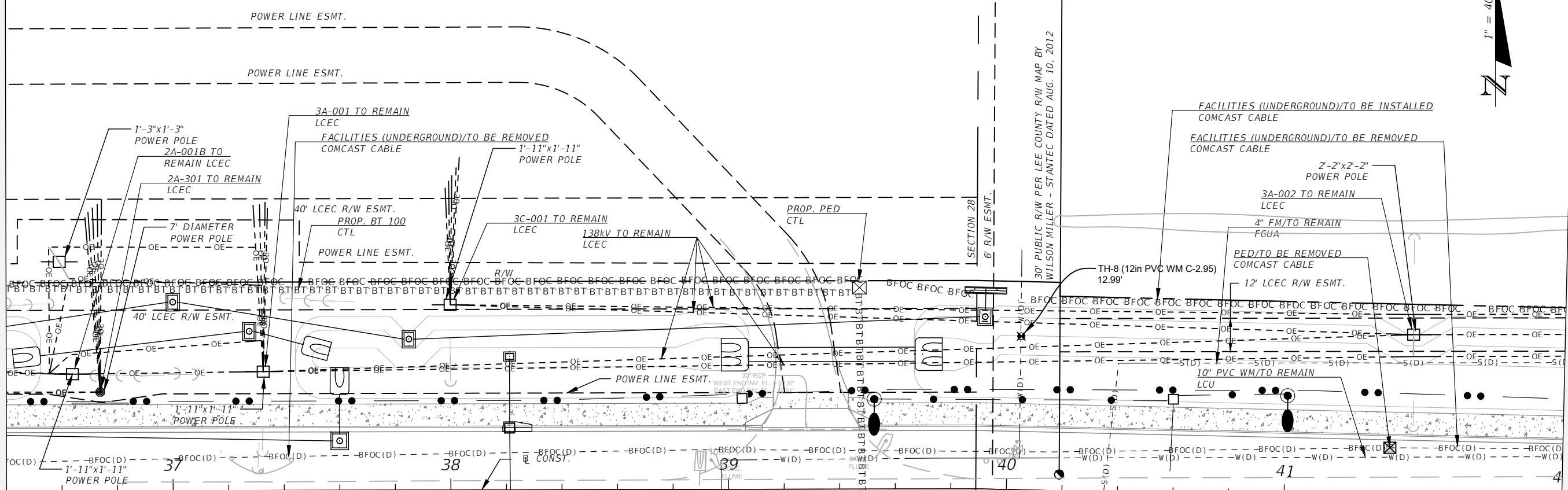
UTILITY ADJUSTMENTS

SHEET NO.
172



MATCHLINE STA. - 36+40.00

MATCHLINE STA. - 42+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

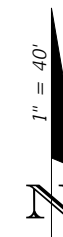
DANIEL M. CRAIG P.E.,
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 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

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UTILITY ADJUSTMENTS

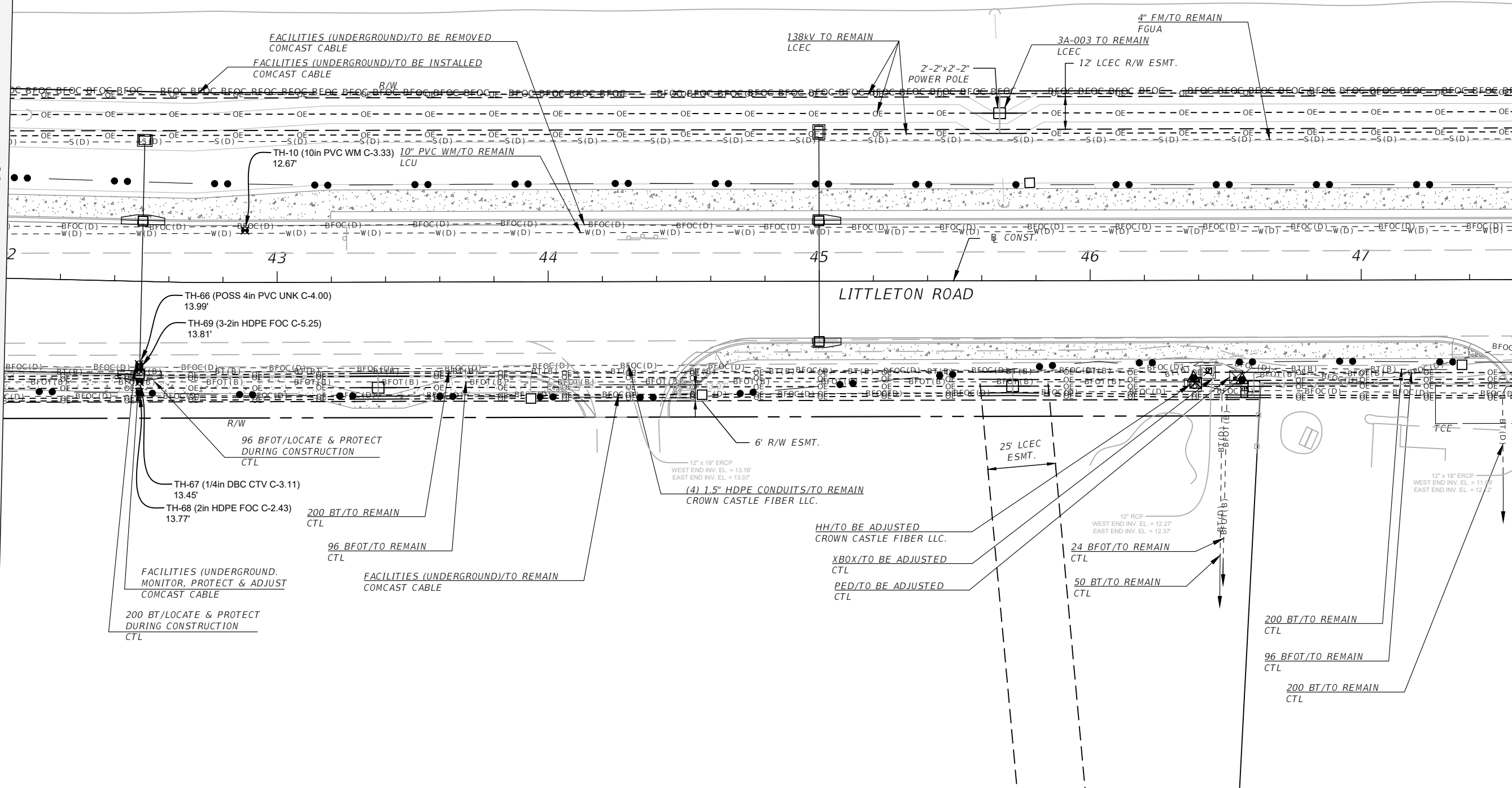
SHEET NO.
173

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MATCHLINE STA. - 42+00.00

MATCHLINE STA. - 47+60.00



REVISIONS			
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 FORT MYERS, FL 33901

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UTILITY ADJUSTMENTS

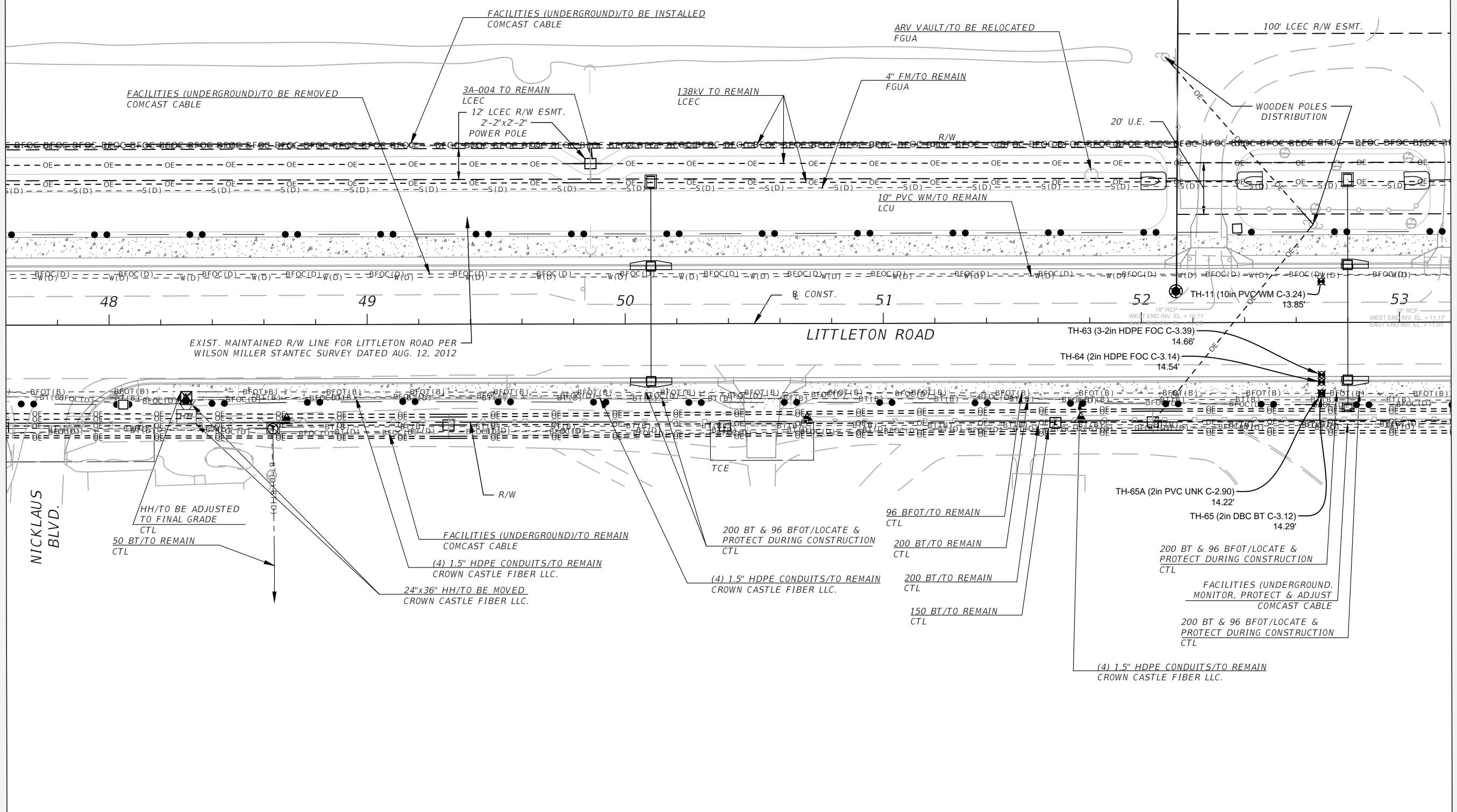
SHEET NO.
174

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MATCHLINE STA. - 47+60.00

MATCHLINE STA. - 53+20.00



REVISIONS				DANIEL M. CRAIG P.E., P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. 175
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.	
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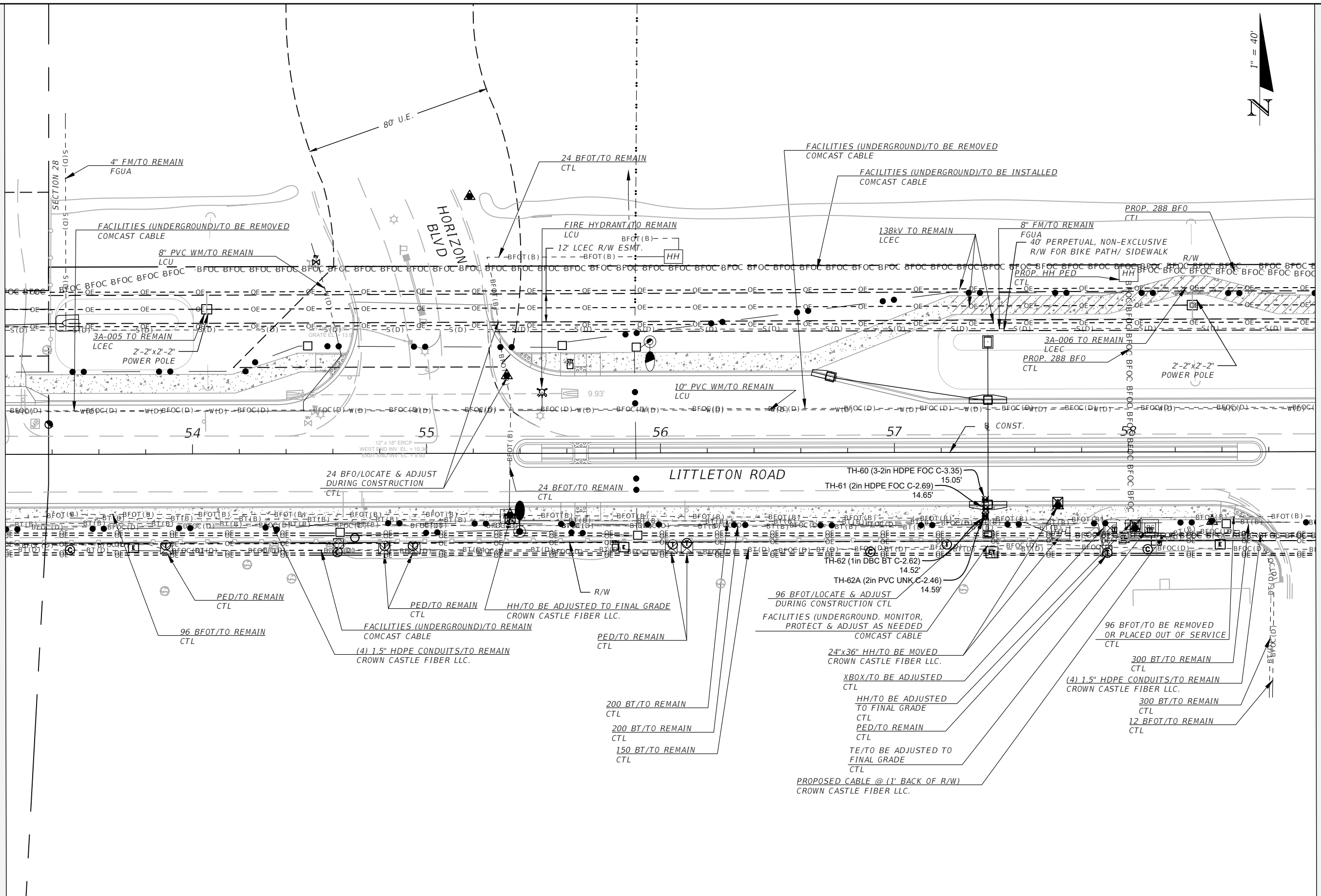
UTILITY ADJUSTMENTS

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MATCHLINE STA. - 53+20.00

MATCHLINE STA. - 58+80.00



REVISIONS			
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DANIEL M. CRAIG P.E.,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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UTILITY ADJUSTMENTS

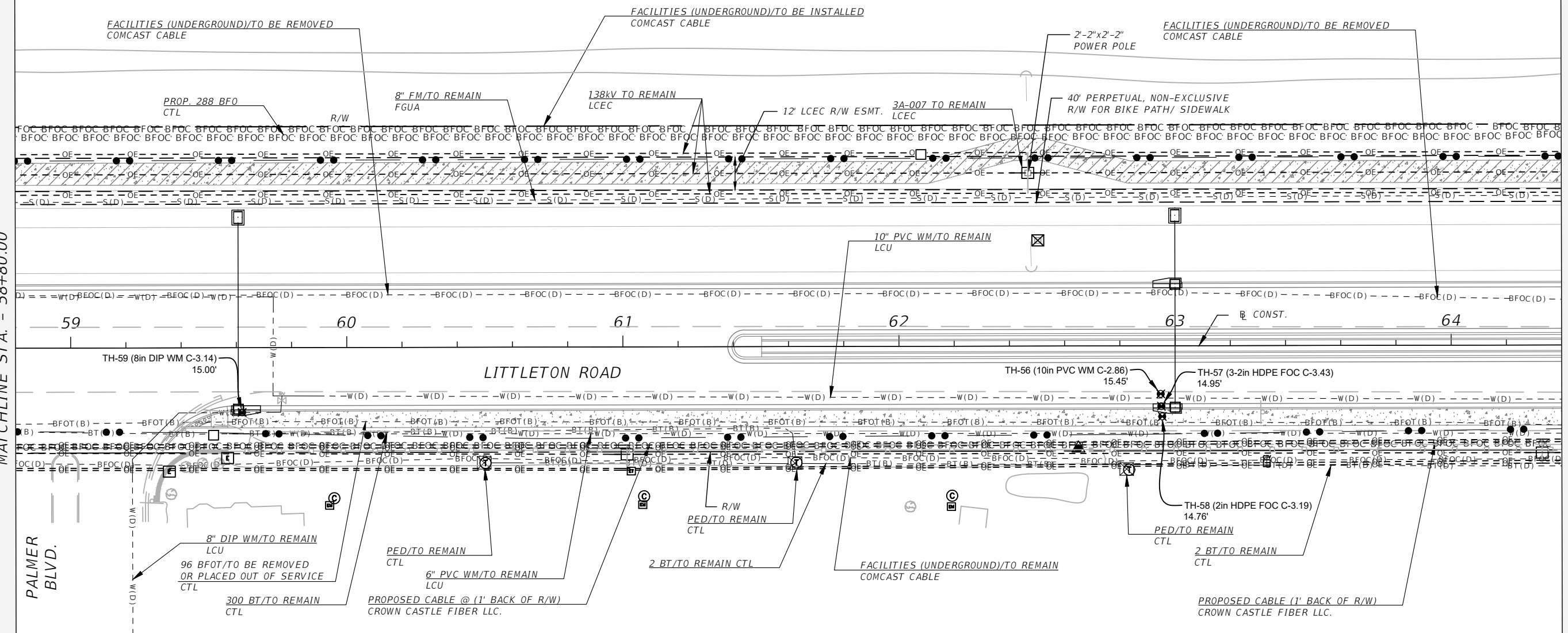
SHEET NO.
176

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MATCHLINE STA. - 58+80.00

MATCHLINE STA. - 64+40.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

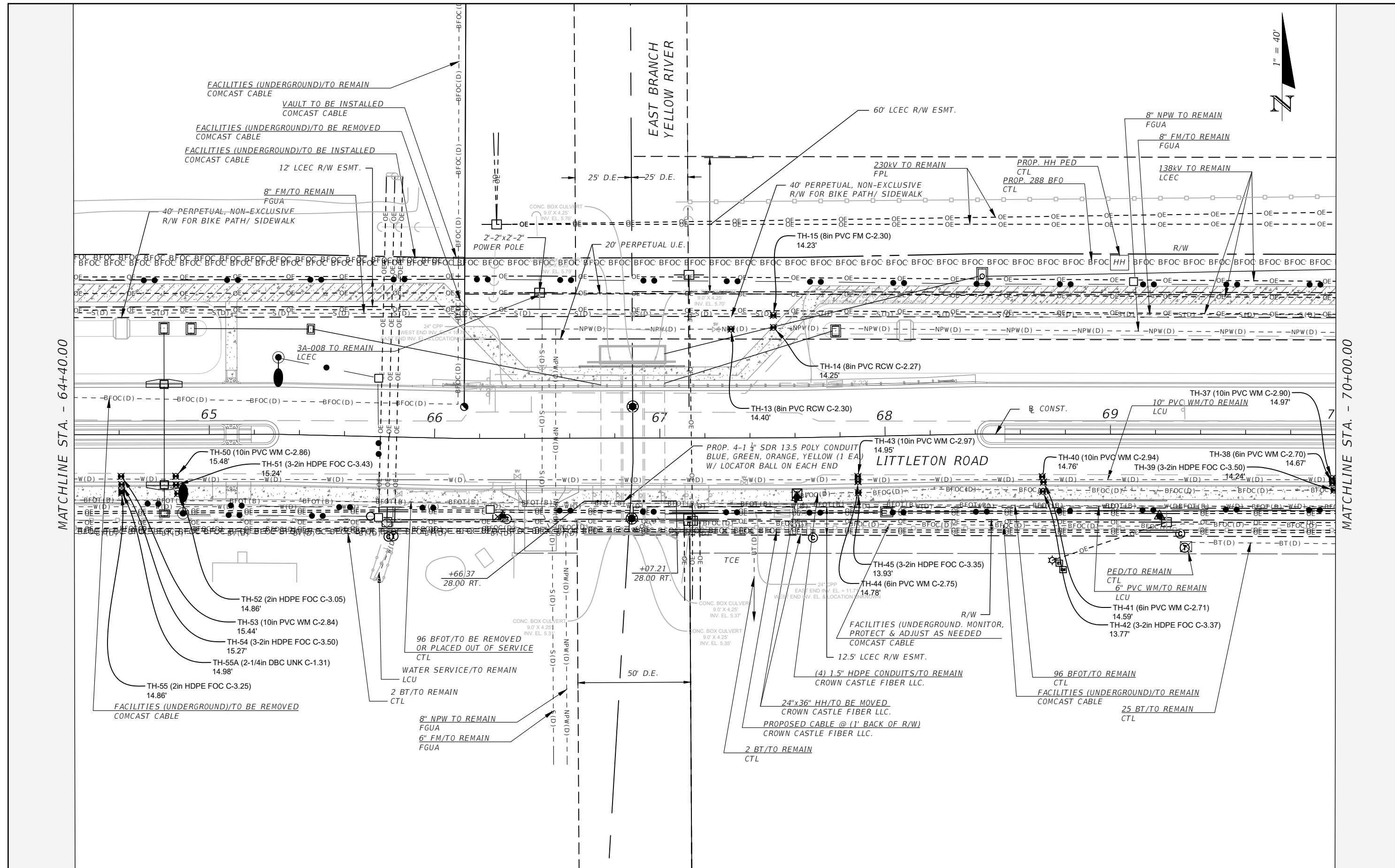
DANIEL M. CRAIG P.E.,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

UTILITY ADJUSTMENTS

SHEET NO.
177

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



MATCHLINE STA. - 64+40.00

MATCHLINE STA. - 70+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

UTILITY ADJUSTMENTS

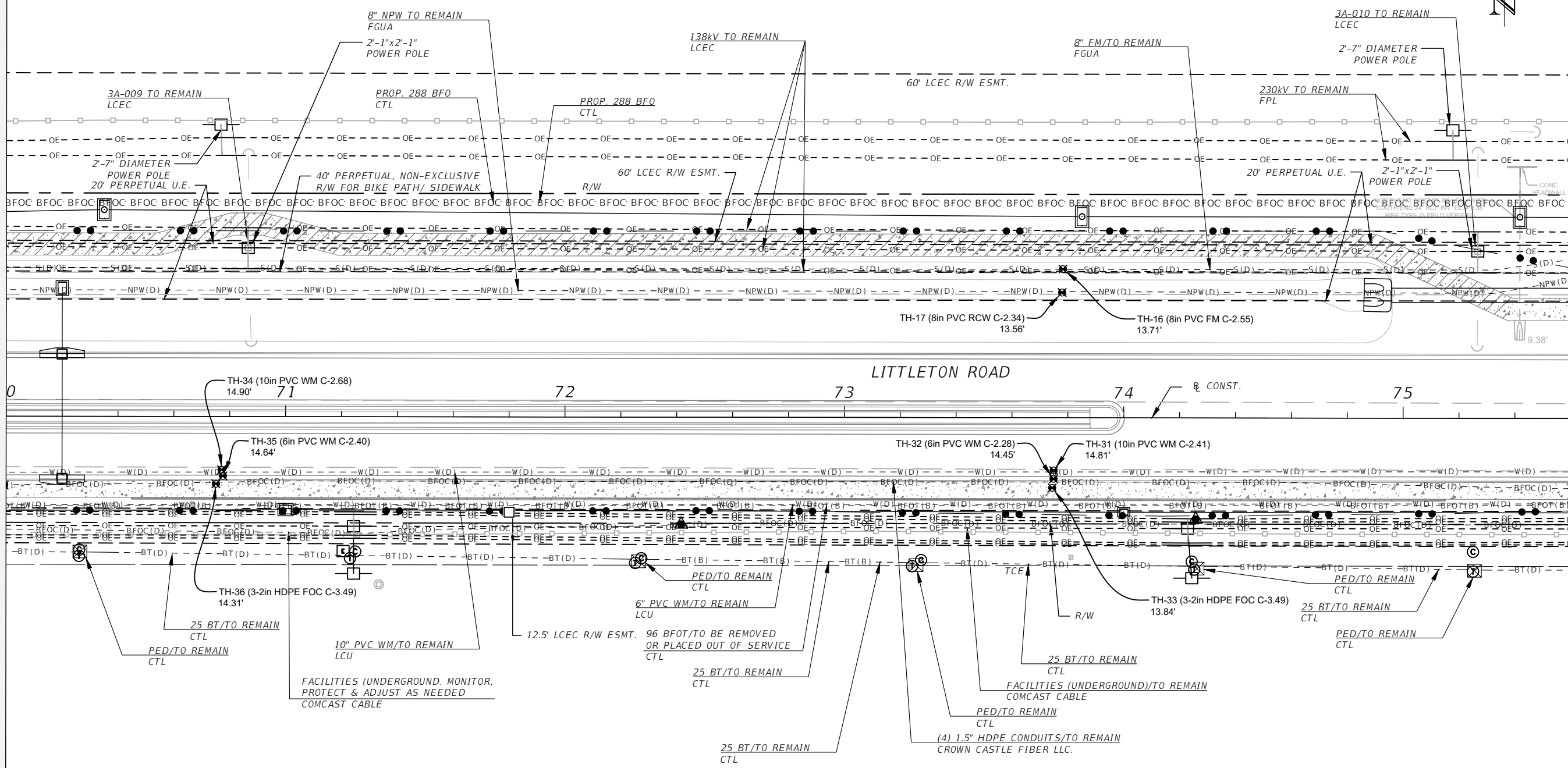
SHEET NO.
178

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MATCHLINE STA. - 70+00.00

MATCHLINE STA. - 75+60.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

UTILITY ADJUSTMENTS

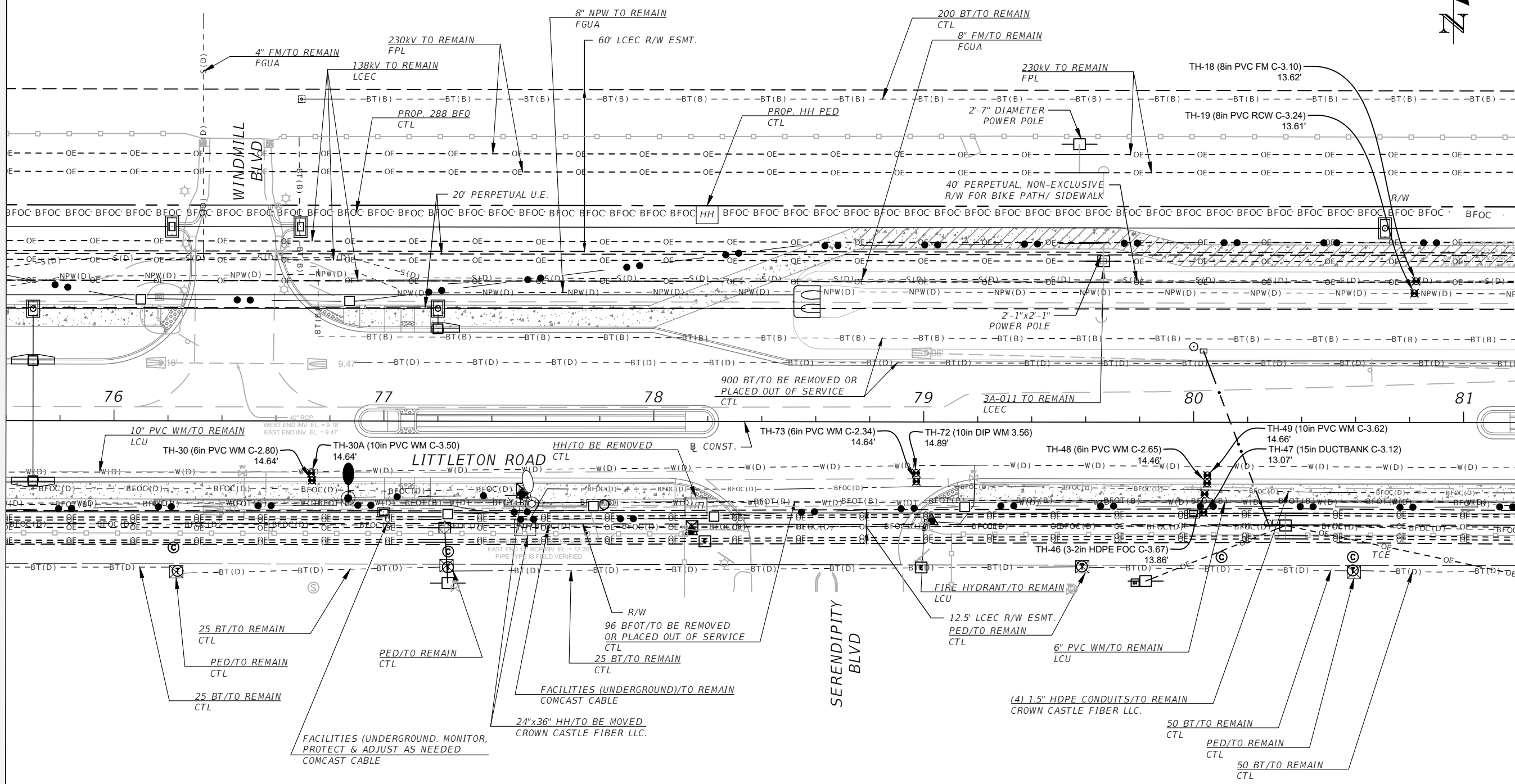
SHEET NO.
179

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MATCHLINE STA. - 75+60.00

MATCHLINE STA. - 81+20.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

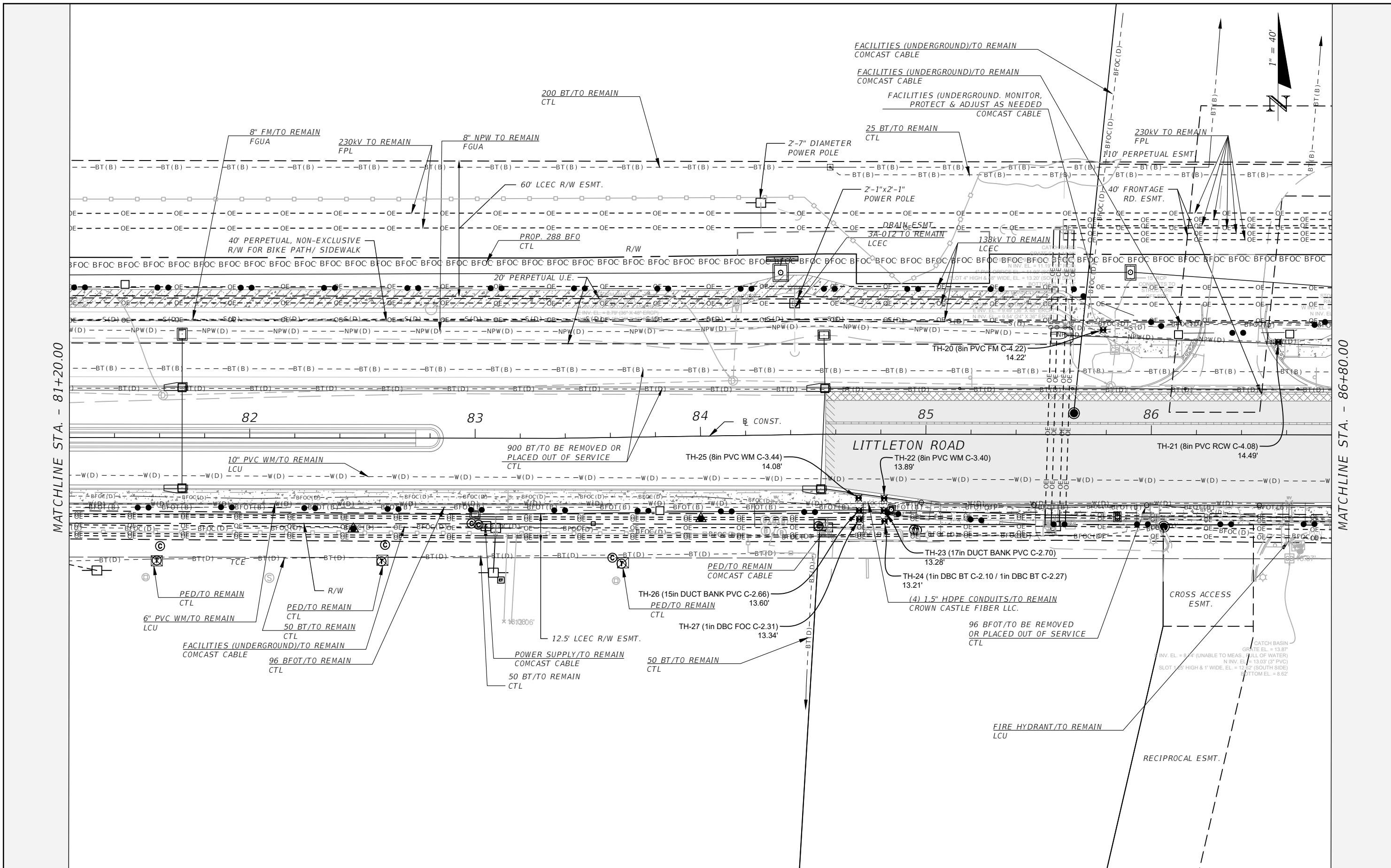
DANIEL M. CRAIG P.E.,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

UTILITY ADJUSTMENTS

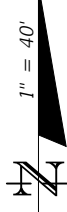
SHEET NO.
180

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MATCHLINE STA. - 81+20.00

MATCHLINE STA. - 86+80.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE,
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

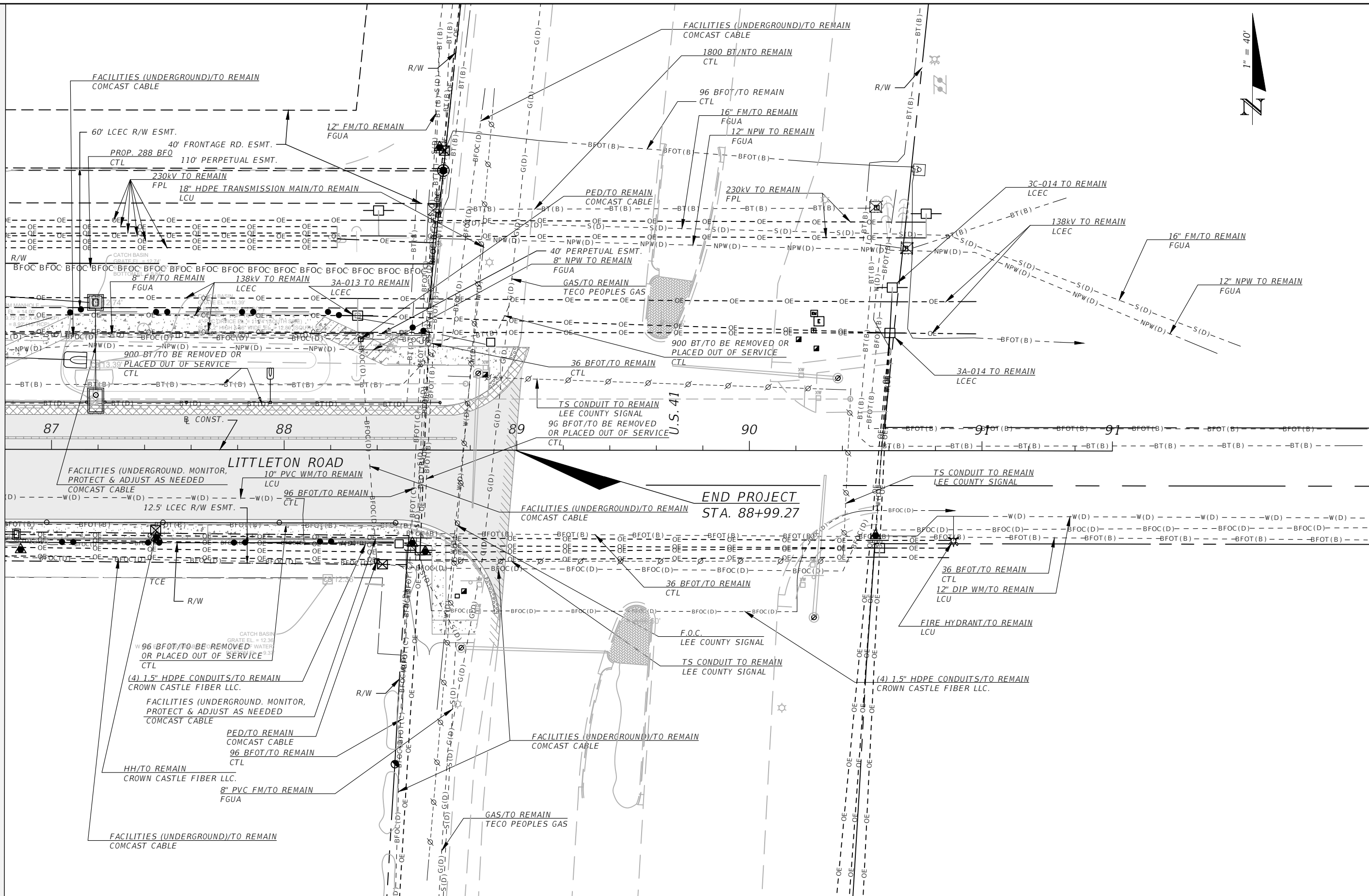
UTILITY ADJUSTMENTS

SHEET NO.
181

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MATCHLINE STA. - 86+80.00



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG P.E.,
 P.E. LICENSE NUMBER 38590
 CARDNO, INC.
 1821 VICTORIA AVE,
 FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

UTILITY ADJUSTMENTS

SHEET NO.
182

SUMMARY OF PERMANENT DRIVEWAYS								
DRIVEWAY LOCATION		SIDE	OFFSET	EXIST DRIVE MATERIAL	DRIVEWAY WIDTH	UTILITY STRIP	SIDEWALK WIDTH	DRIVEWAY TYPE
ID	STATION							
DWY - 01	29+53.89	RT	21	GRAVEL	14.00	0.00	8.00	G3
DWY - 02	31+21.00	RT	21	GRASS	14.00	0.00	8.00	G3
DWY - 03	32+36.03	LT	21	GRAVEL	14.00	3.00	8.00	G13
DWY - 04	33+15.22	RT	21	GRAVEL	14.00	0.00	8.00	G3
DWY - 05	33+76.50	LT	21	ASPHALT/GRAVEL	24.00	3.00	8.00	G13
DWY - 06	33+79.82	RT	21	GRAVEL	14.00	0.00	8.00	G3
DWY - 07	35+05.71	RT	21	CONCRETE	14.00	0.00	8.00	G3
DWY - 08	36+15.84	RT	21	CONCRETE	14.00	0.00	8.00	G3
DWY - 09	36+68.17	RT	21	CONCRETE	24.00	0.00	8.00	G3
DWY - 10	37+50.73	RT	21	CONCRETE	14.00	0.00	8.00	G3
DWY - 11	38+52.47	RT	33	CONCRETE	24.00	0.00	8.00	G3
DWY - 12	39+29.63	LT	21	ASPHALT	27.00	0.00	8.00	G3
DWY - 13	50+52.90	RT	21	ASPHALT	14.00	0.00	6.00	G1
DWY - 14	52+26.25	LT	21	ASPHALT	14.00	3.00	8.00	G13
DWY - 15	53+21.84	LT	21	ASPHALT	14.00	3.00	8.00	G13
DWY - 16	66+49.91	RT	21	ASPHALT	14.00	0.00	6.00	G1
DWY - 17	85+27.62	RT	30	ASPHALT	42.01	0.00	6.00	
DWY - 18	86+30.31	RT	30	ASPHALT	55.11	0.00	6.00	

REVISIONS				DANIEL M. CRAIG P.E., P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE, FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRIVEWAYS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		183
---	---				LITTLETON ROAD	LEE	CN190114		

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	Mobilization	1			
0102 1	Maintenance of Traffic	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F		
0102 75 2	Temporary Separator, F&I, Remain	LF	419			

SUMMARY OF MONITOR EXISTING STRUCTURES				
LOCATION	VIBRATION MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
	0108 2			
STATION TO STATION	LS			
	P	F		
25+04.65 to 88+99.27	1			
TOTAL	1			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120 1	Regular Excavation	4125.0			
0120 6	Embankment	28816.0			
0120 6	4" Detention Berm (3)	3.1			

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)		QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				AREA (AC)		P	F	P	F		
0110 1 1	Clearing and Grubbing	25+04.65	to 88+99.27	LT/RT		LS	17.27		1		1			
0110 4 10	Removal of Existing Concrete	25+00.00	to 25+32.92	RT	4072D01	SY			17		3933		Curb & Gutter	
		25+00.00	to 26+31.18	RT	4072D28				27				Curb & Gutter	
		25+00.00	to 25+70.47	LT	4072CC2				73				Sidewalk	
		25+00.00	to 26+45.12	LT	4072CE4				34				Curb & Gutter	
		25+29.99	to 26+31.31	RT	4072D44				83				Sidewalk	
		34+95.19	to 35+16.96	RT	4072D53				32				Driveway	
		36+06.45	to 36+24.59	RT	4072D62				14				Driveway	
		36+48.01	to 39+78.04	RT	4072DD9				78				Curb & Gutter	
		36+52.43	to 36+82.05	RT	4072D70				10				Driveway	
		38+38.44	to 38+63.07	RT	4072D89				7				Driveway	
		39+66.34	to 39+72.55	RT	4072D97				10				Sidewalk	
		40+16.18	to 40+55.09	RT	4072DEB				13				Curb & Gutter	
		40+40.41	to 44+07.97	RT	4072E09				181				Sidewalk	
		44+49.30	to 47+62.70	RT	4072E2E				156				Sidewalk	
		47+84.11	to 50+46.52	RT	4072E45				131				Sidewalk	
		50+59.68	to 58+55.61	RT	4072E8E				454				Sidewalk	
		54+61.81	to 54+72.29	LT	4072E9F				6				Curb & Gutter	
		55+25.22	to 55+37.06	LT	4072EBA				5				Curb & Gutter	
		58+42.73	to 58+64.66	RT	4072ECC				6				Curb & Gutter	
		59+31.60	to 59+54.92	RT	4072EE3E				7				Curb & Gutter	
		59+42.05	to 66+35.82	RT	4072F23				390				Sidewalk	
		66+26.96	to 76+30.18	LT	4072F5E				919				Sidewalk	
		76+48.21	to 78+33.44	RT	4072F74				113				Sidewalk	
		76+59.50	to 86+23.88	LT	4072FB6				859				Sidewalk	
		85+95.37	to 86+76.25	RT	4072FC6				60				Driveway	
		86+47.17	to 89+04.26	LT	4072FE8				236				Sidewalk	
		87+55.18	to 88+84.87	RT	4073003				12				Curb & Gutter	

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		SQ-1

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 11		0104 12		0104 15		0104 18			
			LF		LF		LF		EA		EA			
			P	F	P	F	P	F	P	F	P	F		
25+21.10 to 27+04.84	LT	40741CE	237.3											
25+23.68 to 27+02.85	RT	40741EB	194.6											
27+71.14 to 32+31.05	LT	40741CF	506.0											
27+82.43 to 29+52.14	RT	40741EC	195.0											
29+60.16 to 31+13.46	RT	40741ED	153.3											
31+28.00 to 32+10.33	RT	40741EE	82.3											
32+29.95 to 33+04.41	RT	40741EF	74.5											
32+41.05 to 33+72.15	LT	4076C2A	131.1											
33+19.52 to 33+72.26	RT	407614E	52.7											
33+83.64 to 39+08.18	LT	40741D0	524.5											
33+86.90 to 34+97.53	RT	40741F1	112.1											
35+13.54 to 36+09.56	RT	40741F2	94.5											
36+22.35 to 36+55.21	RT	40741F3	32.9											
36+83.58 to 37+42.64	RT	40741F4	59.1											
37+54.21 to 38+38.74	RT	40741F5	84.5											
38+63.12 to 39+61.34	RT	40741F6	101.3											
39+29.89 to 52+23.54	LT	40741D1	1298.7											
40+19.85 to 44+10.65	RT	40741F7	392.1											
44+43.28 to 47+62.19	RT	407427F	322.1											
47+82.50 to 49+80.72	RT	4074280	198.2											
49+91.34 to 50+38.02	RT	4076151	46.7											
50+63.17 to 51+00.23	RT	4076152	37.1											
51+21.31 to 51+51.00	RT	4076153	29.7											
51+57.56 to 52+24.03	RT	4076155	66.5											
52+32.69 to 53+17.08	LT	40741D2	84.4											
52+56.53 to 58+64.50	RT	4076156	608.0											
53+28.96 to 54+64.83	LT	40741D3	145.9											
55+22.17 to 66+70.02	LT	40741D4	1200.3											
59+32.11 to 66+73.25	RT	4076157	752.0											
67+01.82 to 76+32.28	LT	40741D5	991.3											
67+13.20 to 78+36.11	RT	4074287	1133.7											
76+58.40 to 84+22.63	LT	40741E7	783.9											
78+91.64 to 84+49.48	RT	4074288	558.7											
84+45.51 to 85+79.60	LT	40741E8	164.0											
86+22.21 to 86+27.97	LT	407614F	25.6											
86+47.97 to 88+50.31	RT	4074289	237.1											
86+50.93 to 88+63.83	LT	4076150	248.7											
26+87.47 to 27+71.14	LT	4074166			97.0									
27+02.64 to 27+82.43	RT	4074B6D			75.0									
66+62.14 to 67+13.20	RT	407416E			55.0									
66+70.02 to 67+01.82	LT	40758CD			38.0									
26+99.91 to 27+15.09	LT	4075A9D					38.0							
27+02.64 to 27+23.80	RT	407669B					15.0							
27+60.91 to 27+71.14	LT	4074AFE					36.0							
27+64.79 to 27+68.25	RT	4074B51					19.0							
66+72.49 to 66+73.65	RT	40758CB					11.0							
SUB-TOTAL:			11960.2		265.0		119.0							
TOTAL:			11961		265		151		10		1			

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		SQ-2

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 11		0104 12		0104 15		0104 18			
			LF		LF		LF		EA		EA			
			P	F	P	F	P	F	P	F	P	F		
66+74.65 to 66+74.90	LT	4075D96					8.0							
66+97.58 to 66+98.06	LT	4075D7A					8.0							
66+99.11 to 67+01.82	RT	40758CC					16.0							
25+31.95 to 25+32.44	LT	4071F3A							1					
32+13.16 to 32+27.62	RT	4071F31							1					
39+82.55 to 40+11.05	RT	4071F32							1					
44+20.27 to 44+37.79	RT	4071F33							1					
47+63.70 to 47+79.74	RT	4071F34							1					
54+73.13 to 55+20.97	LT	4071F35							1					
58+68.15 to 59+28.52	RT	4071F36							1					
76+32.49 to 76+57.15	LT	4071F37							1					
78+35.44 to 78+89.67	RT	4071F38							1					
88+73.25 to 88+73.52	RT	4071F39							1					
25+70.85	RT	4077572								1				
SUB-TOTAL:							32		10		1			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		

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SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110 7			
		P	F		
29+34.25	RT	1			
33+64.58	RT	1			
34+90.44	RT	1			
35+96.40	RT	1			
38+24.46	RT	1			
38+34.96	RT	1			
53+32.82	LT	1			
SUB-TOTAL:		7			
TOTAL:		7			

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT									
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
						0339 1			
STA. TO STA.						TN			
						P	F		
26+19.95 to 26+99.74	RT	40715B8				5.97			
27+83.09 to 28+56.14	LT	40715D5				2.61			
28+99.92 to 29+09.92	LT/RT	415C825				0.77		Median	
55+39.27 to 55+49.27	LT/RT	415C852				0.77		Median	
58+46.56 to 58+56.56	LT/RT	415C8B3				0.77		Median	
61+40.27 to 61+50.27	LT/RT	415C8E8				0.77		Median	
65+18.64 to 65+28.65	LT/RT	415C921				0.77		Median	
65+98.63 to 68+40.60	LT	40715FE				6.20			
68+43.15 to 68+53.16	LT/RT	415C95E				0.77		Median	
73+87.93 to 73+97.95	LT/RT	415C9C9				0.77		Median	
76+91.45 to 77+01.46	LT/RT	415CA0E				0.77		Median	
78+11.76 to 78+21.77	LT/RT	415CA97				0.77		Median	
81+07.19 to 81+17.20	LT/RT	415CAE6				0.77		Median	
82+73.67 to 82+83.68	LT/RT	415CB4F				0.77		Median	
SUB-TOTAL:						23.3			
TOTAL:						23.3			
GRAND TOTAL:						23.3			

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---	---	---		LITTLETON ROAD	LEE	CN190114		SQ-4

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
0160 4	TYPE B STABILIZATION (12")	25+00.00	to 89+02.38	LT/RT	40E4D5B	SY	32949.00		32957.0			
		47+82.95	to 47+94.85	RT	432866D		7.99					
0160 4	TYPE B STABILIZATION (6")	28+95.00	to 29+33.00	LT/RT	42A01F1		37.00		2366.0			
		32+64.00	to 33+00.00	LT	42A01FE		35.00					
		57+23.68	to 66+02.66	LT	42218B5		850.46					
		67+68.87	to 75+39.24	LT	42218BC		748.00					
		78+73.78	to 85+60.97	LT	42218C3		662.96					
		88+12.96	to 88+44.97	LT	42A0BAB		32.00					
0285701	OPTIONAL BASE, BASE GROUP 01	25+00.00	to 28+99.92	RT	40800FD	SY	55.00		2874.0			
		25+00.00	to 28+99.92	LT	40800D4		56.00					
		28+95.00	to 29+33.00	LT	42A1EF4		34.00					
		32+64.00	to 33+00.00	LT	42A1F06		32.00					
		47+82.95	to 47+94.85	RT	432868D		7.18					
		55+49.27	to 55+62.64	LT	408010A		1.86					
		55+49.27	to 55+62.64	RT	4080117		1.86					
		55+69.15	to 58+46.56	LT	40801ED		38.53					
		55+69.15	to 58+46.56	RT	40801FA		38.53					
		57+23.68	to 66+02.66	LT	42218BD		850.46					
		61+50.27	to 65+06.65	RT	408023D		49.50					
		61+50.27	to 65+06.65	LT	408022B		49.50					
		67+68.87	to 75+39.24	LT	42218D5		746.00					
		68+53.14	to 73+87.94	LT	4080260		74.28					
		68+53.16	to 73+87.95	RT	408024E		74.28					
		77+12.01	to 78+11.78	RT	408027A		13.86					
		77+12.01	to 78+11.77	LT	408026D		13.86					
		78+73.78	to 85+60.97	LT	42218C3		662.96					
		81+17.18	to 82+73.67	LT	4080287		21.73					
		81+17.20	to 82+73.67	RT	40802C7		21.73					
		88+12.96	to 88+44.97	LT	42A1F18		30.00					
0285706	OPTIONAL BASE, BASE GROUP 06	25+00.00	to 84+55.83	LT/RT	408009C	SY	28164.00		28537.0			
		84+55.79	to 88+56.88	LT	407FF9E		179.00					
		86+03.61	to 86+69.13	LT	40E4B50		194.00					
0285711	OPTIONAL BASE, BASE GROUP 11	88+56.88	to 88+99.27	LT	43AEE87	SY	30.00		30.0			
0327 70 1	MILLING EXIST ASPH PAVT, 1 AVG DEPTH	84+55.10	to 88+56.88	LT/RT	406F478	SY	1987.38		1987.4			
0327 70 6	MILLING EXIST ASPH PAVT, 1.5 AVG DEPTH	88+56.88	to 88+89.27	LT/RT	43AEEA1	SY	287.78		287.8			
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	25+00.00	to 84+55.83	LT/RT	4070D85	TN	2323.54		2352.8		FOR OVERBUILD QUANTITY NOT INCLUDED IN TOTAL, SEE TYPICAL SECTION DETAILS OVERBUILD TABLE	
		47+82.95	to 47+94.85	RT	43286A8		0.39					
		84+55.79	to 88+55.88	LT	4070D9A		9.79					
		86+03.61	to 86+69.13	LT	4070D12		16.01					
		88+55.88	to 88+99.27	LT	43AD9AF		3.06					
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	25+00.00	to 84+55.83	LT/RT	4070C61	TN	1549.00		1678.8			
		84+55.10	to 88+55.88	LT/RT	4070DDB		109.32					
		84+55.79	to 88+55.88	LT	4070CE3		9.79					
		86+03.61	to 86+69.13	LT	4070BE9		10.67					
0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	88+55.88	to 88+99.27	LT/RT	43AE39B	TN	26.05		26.1			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
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SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	25+00.00	to 28+99.92	RT	406F4C9	SY	55.75		511.7			
		25+00.00	to 28+99.92	LT	406F4B5		55.33					
		55+49.26	to 55+62.63	RT	406F4E3		1.82					
		55+49.27	to 55+62.64	LT	406F4D6		1.82					
		55+69.15	to 58+46.56	RT	406F51C		38.49					
		55+69.15	to 58+46.56	LT	406F4FA		38.49					
		61+50.27	to 65+06.64	RT	406F53B		49.46					
		61+50.27	to 65+06.64	LT	406F529		49.46					
		65+13.15	to 65+18.64	RT	406F55A		0.73					
		65+13.15	to 65+18.65	LT	406F548		0.73					
		68+53.14	to 73+87.94	LT	406F568		74.28					
		68+53.16	to 73+87.95	RT	406F57A		74.28					
		77+12.01	to 78+11.78	RT	406F594		13.82					
		77+12.01	to 78+11.77	LT	406F587		13.82					
		81+17.18	to 82+73.67	LT	406F5A1		21.73					
		81+17.20	to 82+73.69	RT	406F5B3		21.73					

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		SQ-6
----	----				LITTLETON ROAD	LEE	CN190114		

SUMMARY OF WALLS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	WALL HEIGHT	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
0400 0 11	Concrete Class NS, Gravity Wall	25+45.00	26+70.00	Lt	4	CY	53.8		939.2			
		29+02.92	29+22.92	Lt	4		8.6					
		27+83.93	29+37.89	Rt	5		84.7					
		30+31.00	30+45.00	Rt	1		1.1					
		31+48.40	31+78.40	Rt	4		12.9					
		32+72.34	32+92.34	Lt	3		4.4					
		34+51.00	34+65.00	Rt	4		6.0					
		36+63.81	36+83.81	Lt	2		2.8					
		38+72.00	38+91.33	Rt	1		1.5					
		38+94.67	39+41.26	Rt	3		10.3					
		52+75.13	52+84.87	Rt	3		2.1					
		66+64.33	67+10.96	Lt	4		20.1					
		67+30.00	69+25.16	Rt	5		107.3					
		70+45.00	75+15.00	Rt	5		258.5					
		76+15.00	77+03.26	Rt	4		38.0					
		77+03.26	77+14.26	Rt	4		5.2					
		77+14.26	77+75.14	Rt	4		26.2					
		79+30.00	83+60.00	Rt	5		236.5					
		84+60.09	84+82.83	Rt	1		1.8					
		84+86.13	85+01.45	Rt	3		3.4					
		85+58.63	85+83.33	Rt	7		13.6					
		85+86.67	85+93.56	Rt	8		3.8					

SUMMARY OF RAILING

LOCATION STA. TO STA.	SIDE	PIPE HANDRAIL - GUIDERAIL (ALUMINUM)		PED/BICYCLE RAILING (ALUMINUM ONLY) (42" TYPE 1)		DESIGN NOTES	CONSTRUCTION REMARKS
		0515 1 2		0515 2311			
		LF		LF			
		P	F	P	F		
27+83.56 to 27+83.56	RT			6.0			
29+02.92 to 29+22.92	LT	20.0					
27+83.93 to 29+37.89	RT	154.0					
30+31.00 to 30+45.00	RT	14.0					
31+48.40 to 31+78.40	RT	30.0					
32+72.34 to 32+92.34	LT	20.0					
34+51.00 to 34+65.00	RT	14.0					
36+63.81 to 36+83.81	LT	20.0					
38+72.00 to 39+41.26	RT	69.3					
52+75.13 to 52+84.87	RT	10.0					
66+64.33 to 67+10.96	LT			46.6			
67+30.00 to 69+25.16	RT	195.0					
70+45.00 to 75+15.00	RT	470.0					
76+15.00 to 77+75.14	RT	162.0					
79+30.00 to 83+60.00	RT	430.0					
84+60.09 to 85+01.45	RT	41.4					
85+58.63 to 85+93.56	RT	34.9					
86+68.36 to 88+47.76	RT	179.4					
SUB-TOTAL:		1864.0		52.6			
TOTAL:		1864		53			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---				LITTLETON ROAD	LEE	CN190114		SQ-7

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.					GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
								TYPE	LENGTH	P	F				
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	25+00.00	to 29+10.66	LT/RT	407143D	LF				826.5		4291			
		55+38.53	to 55+63.39	LT/RT	40713F4					62.2					
		55+68.40	to 58+57.29	LT/RT	4071441					590.2					
		61+39.53	to 65+07.40	LT/RT	4071443					748.2					
		65+12.40	to 65+29.38	LT/RT	4071407					46.4					
		65+94.63	to 68+45.12	LT	407141A					250.0					
		68+42.42	to 73+98.68	LT/RT	40713E0					1122.9					
		76+90.71	to 77+06.26	LT/RT	4071408					43.6					
		77+11.26	to 78+22.51	LT/RT	407140D					235.0					
		81+06.45	to 82+84.41	LT/RT	40713DB					366.3					
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	25+00.00	to 29+36.88	RT	407135C	LF				420.9		11767			
		25+00.00	to 32+19.05	LT	407131B					735.6					
		29+70.89	to 31+04.00	RT	4071363					133.1					
		31+38.01	to 32+03.85	RT	4071364					73.4					
		32+36.44	to 32+98.21	RT	407136F					69.2					
		32+53.05	to 33+54.50	LT	4071307					101.5					
		33+32.22	to 33+62.82	RT	4071370					30.6					
		33+96.82	to 34+88.71	RT	4071371					92.5					
		33+98.50	to 39+06.13	LT	4071308					507.6					
		35+22.72	to 35+98.84	RT	407135D					75.6					
		36+32.84	to 36+46.17	RT	4071365					13.3					
		36+90.18	to 37+33.73	RT	4071366					43.6					
		37+67.73	to 38+29.00	RT	4071367					62.4					
		38+73.00	to 39+76.56	RT	4071362					129.0					
		39+53.15	to 52+09.25	LT	4071305					1256.1					
		40+17.67	to 44+15.96	RT	407142E					438.0					
		44+42.32	to 47+54.11	RT	407135F					330.0					
		47+90.58	to 50+35.90	RT	4071360					251.0					
		50+69.91	to 58+63.24	RT	4071361					798.3					
		52+43.23	to 53+04.84	LT	4071309					61.6					
		53+38.82	to 54+69.23	LT	407130A					158.0					
		55+27.62	to 65+94.63	LT	4071419					1084.9					
		59+32.98	to 78+31.94	RT	407136A					1910.4					
		68+45.12	to 76+28.71	LT	407141D					815.0					
		76+23.81	to 76+27.78	LT	40A6CA0					5.4					
		76+23.81	to 76+33.06	LT	40A6CA1					13.8					
		76+57.62	to 76+66.61	LT	40A6CA2					13.7					
		76+61.68	to 86+22.79	LT	407141E					1004.8					
		76+62.07	to 76+66.61	LT	40A6CA3					6.3					
		78+93.86	to 85+06.62	RT	407136D					619.3					
		85+48.63	to 85+93.56	RT	4071368					44.9					
		86+50.25	to 88+67.07	LT	4071420					239.7					
		86+68.36	to 88+86.50	RT	4071369					227.2					
0520 2 4	CONCRETE CURB, TYPE D, 6" WIDE (RIBBON)	25+00.00	to 28+99.92	LT/RT	4071449	LF				401.1		3687			
		25+00.00	to 28+99.92	RT	407144A					398.7					
		55+49.26	to 55+62.64	RT	40713D5					13.4					
		55+49.27	to 55+62.64	LT	40713D3					13.4					
		55+69.15	to 58+46.56	LT	40713D4					277.4					
		55+69.15	to 58+46.56	RT	40713D6					277.4					
		61+50.27	to 65+06.65	LT	40713E4					356.4					
		61+50.27	to 65+06.65	RT	40713E6	LF				356.4					
		65+13.15	to 65+18.64	RT	40713E7					5.5					
		65+13.15	to 65+18.65	LT	40713E5					5.5					
		68+53.14	to 73+87.94	LT	40713DE					534.8					
		68+53.16	to 73+87.95	RT	40713DF					534.8					
		77+12.01	to 78+11.77	LT	40713D0					99.8					
		77+12.01	to 78+11.78	RT	40713CF					99.8					
		81+17.18	to 82+73.67	LT	40713D8					156.5					
		81+17.20	to 82+73.69	RT	40713D9					156.5					
0520 3	VALLEY GUTTER - CONCRETE	85+89.39	to 86+83.42	LT	407132B					94.0		94			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
----	----	----	----		LITTLETON ROAD	LEE	CN190114		SQ-8

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				P	F	P	F		
0550 10 220	FENCING TYPE B, 5.1'-6.0', STANDARD	67+03.24	78+11.41	RT	LF	1120.0		1682			
		79+10.31	84+49.48	RT	LF	562.0					

SUMMARY OF DITCH PAVEMENT											
LOCATION		SIDE	AREA ID	LENGTH	WIDTH	RIPRAP - RUBBLE (DITCH LINING)		57 STONE		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.						0530	3	4	0530		
		TN		TN							
		P	F	P	F						
27+77.87	to 27+91.78	LT		5.0	13.9	11.2					
29+24.26	to 29+32.99	LT		34.3	8.7			22.0			
32+06.96	to 32+17.01	LT		6.5	10.0	10.4					
32+55.05	to 32+64.78	LT		3.7	10.0	5.9					
32+64.76	to 33+02.38	LT		26.7	37.6			74.1			
33+47.93	to 33+57.74	LT		5.3	10.0	8.5					
33+95.90	to 34+05.66	LT		5.3	10.0	8.5					
35+79.31	to 36+13.93	LT		18.4	35.7			48.5			
36+41.48	to 36+52.28	LT		6.5	10.0	10.4					
37+44.16	to 37+52.50	LT		29.4	8.4			18.2			
37+87.41	to 38+17.74	LT		18.5	30.3			41.4			
38+97.48	to 39+07.48	LT		5.2	10.0	8.3					
39+66.97	to 39+77.03	LT		7.9	10.0	12.6					
41+25.54	to 41+65.44	LT		27.7	39.5			80.8			
45+46.86	to 45+86.31	LT		27.3	39.5			79.6			
49+66.86	to 50+06.25	LT		26.8	39.5			78.2			
51+99.90	to 52+10.02	LT		6.6	10.0	10.6					
52+37.06	to 52+47.08	LT		6.9	10.0	11.0					
53+01.75	to 53+12.01	LT		7.1	10.0	11.4					
53+41.51	to 53+51.81	LT		6.8	10.0	10.9					
53+86.23	to 54.00.50	LT		26.5	14.3			28.0			
58+08.29	to 58+46.60	LT		16.2	38.3			45.8			
62+27.62	to 52+65.90	LT		16.2	38.3			45.8			
70+67.11	to 71+05.96	LT		17.4	38.9			50.0			
74+85.70	to 74+96.03	LT		5.7	10.0	9.1					
78+51.76	to 78+61.55	LT		5.4	10.0	8.6					
79+46.89	to 79+86.11	LT		18.1	39.2			52.4			
84+22.84	to 84+61.19	LT		17.6	37.5			48.7			
85+55.36	to 85+65.34	LT		6.5	10.0	10.4					
				86+04.93	10.7						
				SUB-TOTAL:		158.5		713.5			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
---	---			LITTLETON ROAD	LEE	CN190114			

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SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		CONC SIDEWALK 6" ENHANCED		BUS BAY/BOARDING PAD - CONCRETE		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 2		0522 2 A		0522 3		0527 2			
					SY		SY		SY		SF			
					P	F	P	F	P	F	P	F		
25+26.92 to 28+95.00	LT	4071083			296.1									
28+95.00 to 29+33.00	LT	41B5837					33.9							
29+33.00 to 32+29.06	LT	41B5845			260.9									
25+30.03 to 29+46.89	RT	407109D			358.8									
29+60.89 to 31+14.01	RT	40710B2			131.4									
31+28.01 to 31+56.40	RT	40710C3			15.8									
31+78.40 to 31+96.83	RT	40710CF			10.4									
32+43.05 to 32+64.00	LT	4071104			17.2									
32+64.00 to 33+00.00	LT	41B5855					32.0							
33+00.00 to 33+64.40	LT	41B5863			55.9									
32+43.50 to 33+08.22	RT	40710E0			49.2									
33+22.22 to 33+72.82	RT	40710F5			40.3									
33+86.82 to 34+98.71	RT	407111D			95.4									
33+88.50 to 39+16.13	LT	4071160			491.6									
35+12.71 to 36+08.84	RT	4071134			80.2									
36+22.84 to 36+56.17	RT	4071175			25.0									
36+80.17 to 37+43.73	RT	407118A			51.8									
37+57.73 to 38+39.00	RT	40711A1			69.5									
38+63.00 to 39+76.07	RT	40711B4			113.9									
39+43.15 to 52+19.25	LT	40711F6			1138.8									
40+23.35 to 44+01.54	RT	40711D3			252.7									
44+46.09 to 47+45.88	RT	407120A			197.9									
47+98.60 to 50+45.91	RT	407121B			161.0									
50+59.91 to 56+72.89	RT	407122C			403.4									
52+33.25 to 53+14.84	LT	407123B			69.6									
53+28.84 to 54+66.36	LT	407124F			120.1									
55+38.52 to 57+23.68	LT	415F090			163.5									
55+61.43 to 55+70.33	LT/RT	4071260			5.4									
56+94.89 to 58+54.48	RT	40712AB			102.4									
57+23.68 to 66+02.66	LT	415F097					784.5							
59+41.79 to 77+53.14	RT	40712C5			1198.0									
65+05.40 to 65+14.39	LT/RT	40BE930			22.0									
65+07.40 to 65+12.40	LT	415F09E			20.0									
66+02.66 to 67+68.87	LT	415F0A5			153.4									
67+68.87 to 75+39.24	LT	415F0AC					689.9							
75+39.24 to 76+26.02	LT	415F0B3			76.0									
76+73.22 to 78+73.78	LT	415F0BA			177.6									
78+73.78 to 85+60.97	LT	415F0C1					611.4							
77+04.26 to 77+13.24	LT/RT	4071309			5.4									
77+75.14 to 78+23.00	RT	4071316			27.9									
79+04.14 to 85+06.62	RT	4071327			398.2									
85+48.63 to 85+99.56	RT	4071337			34.0									
85+60.97 to 86+20.27	LT	415F0C8			57.3									
86+52.60 to 88+12.96	LT	40BE90C			144.8									
88+12.96 to 88+44.97	LT	41B5871					29.6							
88+44.97 to 88+98.90	LT	41B5884			49.4									
86+62.36 to 88+83.28	RT	407134C			171.8									
31+48.40 to 31+78.40	RT	407157F							33.3					
56+64.89 to 56+94.89	RT	407158C							26.7					
77+45.14 to 77+75.14	RT	4071599							26.7					
SUB-TOTAL:					7313.9		2181.3							
TOTAL:					7314		2181							




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REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		SQ-10
9-22-21	Revised qty for removal of detectable warnings.				LITTLETON ROAD	LEE	CN190114		

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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		CONC SIDEWALK 6"		BUS BAY/BOARDING PAD - CONCRETE		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 2		0522 2 A		0522 3		0527 2			
					SY		SY		SY		SF			
					P	F	P	F	P	F	P	F		
31+90.11 to 31+96.21	RT	4071386									10.78			
32+44.08 to 32+50.19	RT	4071394									10.71			
39+64.38 to 39+70.24	RT	40713E1									13.57			
40+23.57 to 40+28.86	RT	40713BB									10.87			
43+95.26 to 44+01.21	RT	40713EE									9.14			
44+46.27 to 44+51.43	RT	40713FB									10.66			
47+39.55 to 47+45.47	RT	4071408									9.11			
47+99.16 to 48+05.43	RT	4071415									9.93			
54+58.75 to 54+65.89	LT	4071423									19.4			
55+38.99 to 55+45.17	LT	4071430									10.8			
55+61.42 to 55+70.30	RT	4071457									11.7			
55+61.43 to 55+70.34	LT	407144A									11.7			
55+63.40 to 55+68.40	LT	407143D									10.0			
55+63.40 to 55+68.40	RT	4071464									10.0			
58+45.36 to 58+53.75	RT	4071471									14.3			
59+42.49 to 59+50.85	RT	407147E									14.3			
65+05.40 to 65+14.38	LT	407149F									11.7			
65+05.52 to 65+14.38	RT	40BE944									11.8			
65+07.25 to 65+12.56	LT	407148D									8.6			
65+07.40 to 65+12.40	RT	40714B9									10.0			
76+17.23 to 76+26.45	LT	40714C7									34.7			
76+73.86 to 76+85.01	LT	40714D4									21.7			
77+04.26 to 77+13.20	RT	4071500									11.7			
77+04.35 to 77+13.24	LT	40714F3									11.7			
77+06.26 to 77+11.26	LT	40714E1									10.0			
77+06.26 to 77+11.26	RT	407150D									10.0			
78+13.88 to 78+22.27	RT	407151F									14.3			
79+04.56 to 79+12.94	RT	407152C									14.3			
86+13.53 to 86+20.11	LT	407153A									18.6			
86+52.69 to 86+59.18	LT	4071548									18.5			
88+88.45 to 88+92.45	LT	4071567									18.0			
88+94.77 to 88+98.50	LT	4071555									9.0			
88+86.05 to 88+92.48	RT	415EF77									36.0			
SUB-TOTAL:											457.7	1		

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>9-22-21</td> <td>Revised qty for removal of detectable warnings. </td> <td></td> <td></td> </tr> </tbody> </table>		DATE	DESCRIPTION	DATE	DESCRIPTION	9-22-21	Revised qty for removal of detectable warnings. 			<p>DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901</p>	<p align="center">LEE COUNTY DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NAME</th> <th>COUNTY</th> <th>CONTRACT NO.</th> </tr> </thead> <tbody> <tr> <td>LITTLETON ROAD</td> <td>LEE</td> <td>CN190114</td> </tr> </tbody> </table>	ROAD NAME	COUNTY	CONTRACT NO.	LITTLETON ROAD	LEE	CN190114	<p align="center">SUMMARY OF QUANTITIES</p>	<p>SHEET NO. SQ-11</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																
9-22-21	Revised qty for removal of detectable warnings. 																		
ROAD NAME	COUNTY	CONTRACT NO.																	
LITTLETON ROAD	LEE	CN190114																	

SUMMARY OF PERMANENT DRIVEWAYS

LOCATION STA. @ C OF DRIVEWAY	SIDE	AREA ID	MATERIAL		DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)			
			0522	2		
P	F					
29+53.89	RT	40714CC	52.24			
31+21.00	RT	40714E0	60.44			
32+36.05	LT	40714F3	77.04			
33+15.22	RT	4071506	59.81			
33+76.50	LT	4071519	108.17			
33+79.82	RT	407152E	61.03			
35+05.71	RT	4071543	63.34			
36+15.84	RT	4071558	64.45			
36+68.17	RT	407156D	108.19			
37+50.73	RT	4071582	64.49			
38+52.47	RT	4071596	75.49			
39+29.64	LT	40715AA	145.02			
50+52.90	RT	40715BF	52.13			
52+26.24	LT	40715D2	68.11			
53+21.83	LT	40715E7	72.58			
66+46.91	RT	4099ADA	52.69			
85+27.62	RT	40715F5	60.69			
86+30.96	RT	4071608	63.76			
SUB-TOTAL:			1309.7			
TOTAL:			1310			

SUMMARY OF GUARDRAIL

LOCATION STA. TO STA.	SIDE	GUARDRAIL (W-BEAM, LOW SPEED, TL-2)		GUARDRAIL (W-BEAM, GENERAL, TL-3)		PIPE RAIL		SPECIAL GUARDRAIL POST (SPECIAL STEEL POST)		GUARDRAIL TRANSITION TO RIGID BARRIER TRAILING (F&I)		GUARDRAIL REMOVAL		END TREATMENT (PARALLEL APPROACH END TREATMENT)		DESIGN NOTES	CONSTRUCTION REMARKS
		0536 1 0		0536 1 1		0536 6		0536 7 2		0536 8 123		0536 73		0536 85 24			
		LF		LF		LF		EA		EA		LF		EA			
P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
26+15.33 to 28+44.53	RT											223.0					
26+30.81 to 28+42.46	LT											216.0					
26+31.15 to 26+99.67	RT	62.0								1				1			
27+83.09 to 28+46.06	LT	62.5								1				1			
37+17.15 to 37+46.56	LT											34.0					
66+04.64 to 68+30.56	LT			225.0													
66+28.65 to 67+46.55	LT					118.5								2			
66+73.84 to 68+02.16	LT							5									
SUB-TOTAL:		124.5		225.0		118.5		5		2		473.0		4			
TOTAL:		125		225		119		5		2		473		4			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SUMMARY OF QUANTITIES

SHEET NO.
SQ-12

SUMMARY OF PERFORMANCE TURF						
LOCATION	SIDE	AREA ID	PERFORMANCE TURF		DESIGN NOTES	CONSTRUCTION REMARKS
			0570	1 1		
STA. TO STA.			SY			
			P	F		
25+25.18 to 26+99.34	LT	40735AF	469.85			
25+27.51 to 25+46.72	LT	40735BD	6.64			
25+29.33 to 26+99.87	RT	40737BE	105.73			
25+48.26 to 25+74.98	LT	40735C9	6.66			
27+61.05 to 32+28.89	LT	40735D8	2171.29			
27+83.93 to 29+46.89	RT	40737CF	169.2			
28+96.05 to 32+22.32	LT	40735EB	108.04			
29+60.89 to 31+14.01	RT	40737E4	167.01			
31+28.00 to 32+03.36	RT	40737FA	75.17			
32+35.04 to 33+72.14	LT	40735F8	600.48			
32+36.92 to 33+08.22	RT	407380C	75			
32+49.73 to 33+57.82	LT	4073607	34.56			
33+22.22 to 33+72.82	RT	407381D	53.04			
33+83.28 to 39+18.28	LT	4073638	2552.99			
33+86.82 to 34+98.71	RT	4073866	127.34			
33+95.19 to 34+32.33	LT	4073615	11.43			
35+12.47 to 36+08.84	RT	4073879	136.46			
36+22.84 to 36+56.17	RT	407388A	48.75			
36+80.17 to 37+43.73	RT	407389B	95.75			
37+57.73 to 38+33.99	RT	40738AB	86.63			
38+68.02 to 39+66.25	RT	40738BC	42.64			
39+30.01 to 52+23.48	LT	4073650	5301.1			
40+19.95 to 44+10.47	RT	40738E0	557.54			
43+19.82 to 52+12.58	LT	4073663	296.85			
44+43.28 to 44+55.60	RT	40738F0	10.81			
44+55.61 to 47+53.59	RT	4073919	289.01			
47+91.23 to 50+45.91	RT	407392B	248.02			
50+59.91 to 58+63.17	RT	4073942	790.61			
52+31.27 to 53+17.54	LT	4073674	338.66			
52+39.99 to 53+08.16	LT	4073688	21.27			
53+27.89 to 54+68.60	LT	407369F	661.1			
53+35.52 to 54+59.27	LT	40736B0	59.35			
55+23.68 to 66+02.66	LT	40736CE	1913.9			
56+65.35 to 65+07.40	LT	40736EA	3325.08			
59+33.08 to 78+30.33	RT	407397A	1777.11			
65+12.40 to 66+34.86	LT	40736FE	426.29			
67+39.19 to 76+18.69	LT	407372F	3071.72			
67+68.88 to 76+32.19	LT	4073717	1619.56			
76+61.44 to 86+27.89	LT	4073752	1980.61			
78+00.89 to 86+14.12	LT	4073769	3046.36			
78+96.15 to 85+06.62	RT	4073993	552.14			
85+48.63 to 86+02.38	RT	40739A4	8.57			
86+48.68 to 88+66.15	LT	407377F	642.23			
86+58.60 to 88+87.95	LT	40737A0	577.52			
86+59.08 to 88+82.37	RT	40739BC	108.75			
88+67.61 to 88+97.53	LT	407378C	110.96			
88+69.56 to 88+86.04	RT	40739C9	48.56			
SUB-TOTAL:			34928.3			
TOTAL:			34929.7			

SUMMARY OF PERFORMANCE TURF						
LOCATION	SIDE	AREA ID	PERFORMANCE TURF		DESIGN NOTES	CONSTRUCTION REMARKS
			0570	1 1		
STA. TO STA.			SY			
			P	F		
88+92.94 to 88+96.67	LT	40737AC	1.34			
SUB-TOTAL:			1.3			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO. SQ-13
ROAD NAME	COUNTY	CONTRACT NO.		
LITTLETON ROAD	LEE	CN190114		

SUMMARY OF LITTER REMOVAL AND MOWING

LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	MOWING							DESIGN NOTES	CONSTRUCTION REMARKS
				0107 2								
				AREA ID	AREA (SY)	CYCLES	AREA					
AC/ CYCLE	TOTAL (AC) P F											
25+25.18 to 26+99.34	LT	730	30	40735AF	469.9	24	0.097	2.330				
25+27.51 to 25+46.72	LT	730	30	40735BD	6.6	24	0.001	0.033				
25+29.33 to 26+99.87	RT	730	30	40737BE	105.7	24	0.022	0.524				
25+48.26 to 25+74.98	LT	730	30	40735C9	6.7	24	0.001	0.033				
27+61.05 to 32+28.89	LT	730	30	40735D8	2171.3	24	0.449	10.767				
27+83.93 to 29+46.89	RT	730	30	40737CF	169.2	24	0.035	0.839				
28+96.05 to 32+22.32	LT	730	30	40735EB	108.0	24	0.022	0.536				
29+60.89 to 31+14.01	RT	730	30	40737E4	167.0	24	0.035	0.828				
31+28.00 to 32+03.36	RT	730	30	40737FA	75.2	24	0.016	0.373				
32+35.04 to 33+72.14	LT	730	30	40735F8	600.5	24	0.124	2.978				
32+36.92 to 33+08.22	RT	730	30	407380C	75.0	24	0.015	0.372				
32+49.73 to 33+57.82	LT	730	30	4073607	34.6	24	0.007	0.171				
33+22.22 to 33+72.82	RT	730	30	407381D	53.0	24	0.011	0.263				
33+83.28 to 39+18.28	LT	730	30	4073638	2553.0	24	0.527	12.659				
33+86.82 to 34+98.71	RT	730	30	4073866	127.3	24	0.026	0.631				
33+95.19 to 34+32.33	LT	730	30	4073615	11.4	24	0.002	0.057				
35+12.47 to 36+08.84	RT	730	30	4073879	136.5	24	0.028	0.677				
36+22.84 to 36+56.17	RT	730	30	407388A	48.8	24	0.010	0.242				
36+80.17 to 37+43.73	RT	730	30	407389B	95.8	24	0.020	0.475				
37+57.73 to 38+33.99	RT	730	30	40738AB	86.6	24	0.018	0.430				
38+68.02 to 39+66.25	RT	730	30	40738BC	42.6	24	0.009	0.211				
39+30.01 to 52+23.48	LT	730	30	4073650	5301.1	24	1.095	26.286				
40+19.95 to 44+10.47	RT	730	30	40738E0	557.5	24	0.115	2.765				
43+19.82 to 52+12.58	LT	730	30	4073663	296.9	24	0.061	1.472				
44+43.28 to 44+55.60	RT	730	30	40738F0	10.8	24	0.002	0.054				
44+55.61 to 47+53.59	RT	730	30	4073919	289.0	24	0.060	1.433				
47+91.23 to 50+45.91	RT	730	30	407392B	248.0	24	0.051	1.230				
50+59.91 to 58+63.17	RT	730	30	4073942	790.6	24	0.163	3.920				
52+31.27 to 53+17.54	LT	730	30	4073674	338.7	24	0.070	1.679				
52+39.99 to 53+08.16	LT	730	30	4073688	21.3	24	0.004	0.105				
53+27.89 to 54+68.60	LT	730	30	407369F	661.1	24	0.137	3.278				
53+35.52 to 54+59.27	LT	730	30	40736B0	59.4	24	0.012	0.294				
55+23.68 to 66+02.66	LT	730	30	40736CE	1913.9	24	0.395	9.490				
56+65.35 to 65+07.40	LT	730	30	40736EA	3325.1	24	0.687	16.488				
59+33.08 to 78+30.33	RT	730	30	407397A	1777.1	24	0.367	8.812				
65+12.40 to 66+34.86	LT	730	30	40736FE	426.3	24	0.088	2.114				
67+39.19 to 76+18.69	LT	730	30	407372F	3071.7	24	0.635	15.232				
67+68.88 to 76+32.19	LT	730	30	4073717	1619.6	24	0.335	8.031				
76+61.44 to 86+27.89	LT	730	30	4073752	1980.6	24	0.409	9.821				
78+00.89 to 86+14.12	LT	730	30	4073769	3046.4	24	0.629	15.106				
78+96.15 to 85+06.62	RT	730	30	4073993	552.1	24	0.114	2.738				
85+48.63 to 86+02.38	RT	730	30	40739A4	8.6	24	0.002	0.042				
86+48.68 to 88+66.15	LT	730	30	407377F	642.2	24	0.133	3.185				
86+58.60 to 88+87.95	LT	730	30	40737A0	577.5	24	0.119	2.864				
86+59.08 to 88+82.37	RT	730	30	40739BC	108.8	24	0.022	0.539				
88+67.61 to 88+97.53	LT	730	30	407378C	111.0	24	0.023	0.550				
88+69.56 to 88+86.04	RT	730	30	40739C9	48.6	24	0.010	0.241				
88+92.94 to 88+96.67	LT	730	30	40737AC	1.3	24	0.000	0.007				
							SUB-TOTAL:	173.205				
							TOTAL:	173.21				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

SUMMARY OF QUANTITIES

SHEET NO.
SQ-14

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

LEE COUNTY
DEPARTMENT OF TRANSPORTATION
LITTLETON ROAD WIDENING
FORT MYERS, LEE COUNTY, FLORIDA

DATE OF SURVEY : July 11TH, 2019
SURVEY MADE BY : GFA INTERNATIONAL, INC.
SUBMITTED BY : Adam J. Dornacker

ROAD : Littleton Road

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS
SURVEY BEGINS: Corbett Road SURVEY ENDS: N. Cleveland Ave.

STRATUM NO.	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASS				ATTERBERG LIMITS (%)			AASHTO GROUP	DESCRIPTION DESCRIPTION	CORROSION SERIES TEST RESULTS					
	NO. OF TESTS	% ORGANIC	% MOISTURE CONTENT	NO. OF TESTS	4 MESH	10 MESH	40 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT			PLASTIC INDEX	NO. OF TESTS	RESISTIVITY ohms-cm	CHLORIDE mg/L	SULFATES mg/L	pH
1	0	-	-	5	100-98	100-97	93-89	3.8-1.4	-	-	-	A-3	Gray, Dark Gray, Brown, Orange Sand (SP)	-	-	-	-	-
2	0	-	-	4	99-84	99-78	92-64	18.3-11.1	-	-	-	A-2-4	Light Gray, Gray, Dark Gray, Brown, Dark Brown, Orange, Silty Sand (SP-SM - SM)	-	-	-	-	-

NOTES:

EMBANKMENT AND SUBGRADE MATERIAL
STRATA BOUNDARIES ARE APPROXIMATE

Ground water was encountered at depths of about 3 feet to 5 feet at boring locations at the time of our drilling.

The material from Stratum Number 1 appears satisfactory for use in the embankment when utilized in accordance with Index 505, except where organics were encountered.

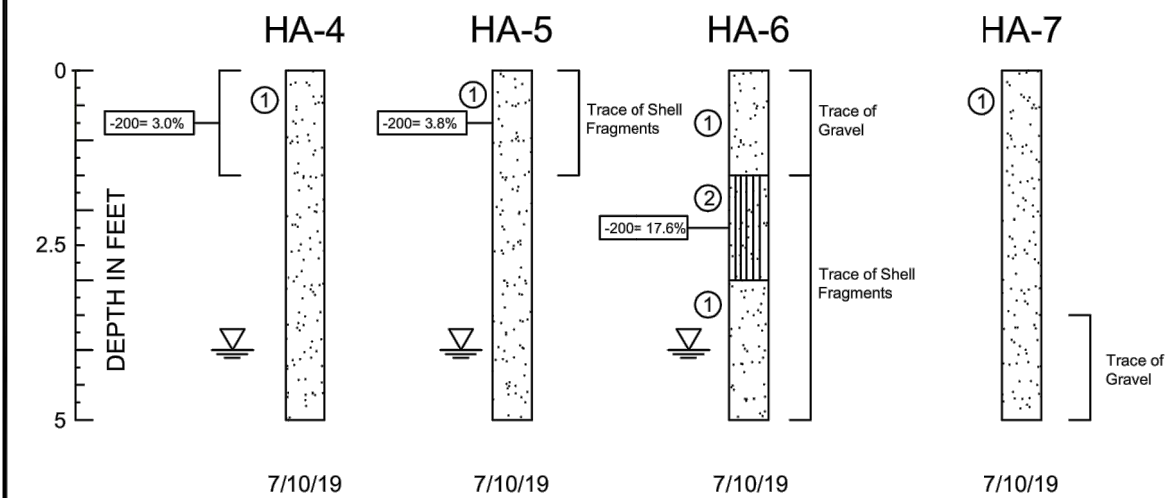
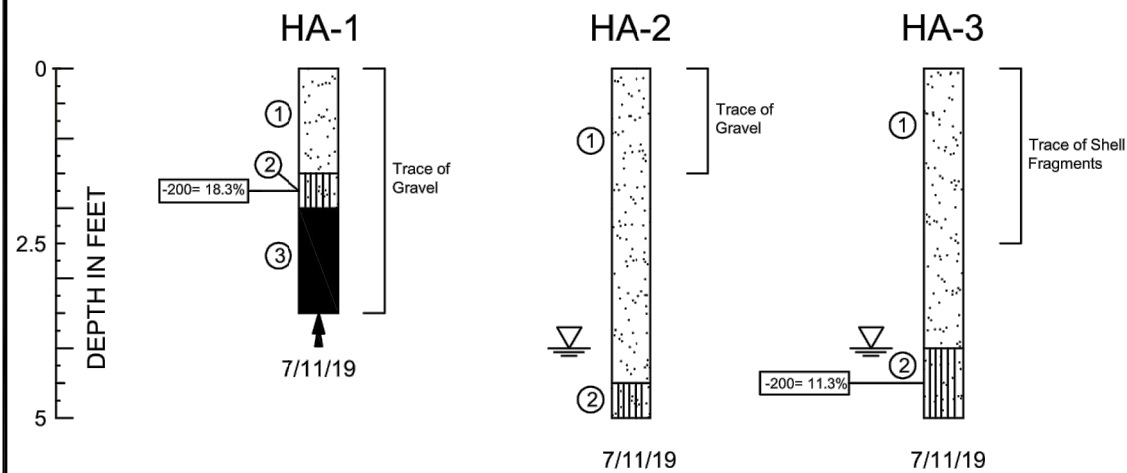
It has been the experience of the Department, with projects constructed within this general geographical area, rock was encountered while performing borings. Therefore, the contractor should consider the increased cost of all underground work activities while preparing the bid.

All costs of rock excavation shall be included in the appropriate items of work contained within the contract. No extra compensation or time extension will be allowed for additional work directly associated with the splitting, excavation, crushing, disposal, replacement of displaced volume of extracted rock with fill material or special handling of rock.

REVISIONS						GFA GFA INTERNATIONAL, INC. 201 WALDO AVE. N. LEHIGH ACRES, FLORIDA 33971 ADAM J. DORNACKER, P.E. #85319	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY LITTLETON ROAD WIDENING FORT MYERS, LEE COUNTY, FLORIDA	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NAME	COUNTY NAME	PROJECT ID		
						LITTLETON ROAD	LEE	19-2732			

REVISIONS				ADAM J. DORNACKER, P.E. P.E. LICENSE NUMBER 85319 GFA INTERNATIONAL INC. 201 WALDO AVE N LEHIGH ACRES, FL 33971	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO. GR-1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		
					LITTLETON ROAD	LEE	CN190114		

SOIL PROFILES



SOIL PROFILE LEGEND

B-X = BORING NUMBER
 SOIL TYPE ⊗
 GROUND WATER LEVEL ▽
 SOIL SYMBOL
 INDICATES PRACTICAL REFUSAL TO BORING EQUIPMENT
 = INDICATES GRADUAL TRANSITION IN SOIL TYPES

NOTES:

N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE. NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

WOH - BORING INTERVAL ADVANCED UNDER WEIGHT OF HAMMER.

HA - HAND AUGER

SOIL LEGEND

- ① Tan, Orange, Light Gray to Dark Gray, Fine SAND (A-3)
- ② Gray to Dark Gray, Dark Brown, Orange, Silty SAND (A-2-4)
- ③ Black, ASPHALT
- ④ NO RECOVERY

SOIL CLASSIFICATION

APPROXIMATE FINES CONTENT	MODIFIERS	APPROXIMATE SHELL CONTENT	MODIFIERS	APPROXIMATE ORGANIC CONTENT	MODIFIERS
5% TO 15%	SLIGHTLY SILTY OR SLIGHTLY CLAYEY	0% TO 5%	WITH A TRACE OF SHELL	0% TO 5%	WITH A TRACE
16% TO 25%	SILTY OR CLAYEY	6% TO 12%	SLIGHTLY SHELLY	5% TO 20%	WITH ORGANICS
26% TO 49%	VERY SILTY OR VERY CLAYEY	13% TO 30%	SHELLY	20% TO 75%	HIGHLY ORGANIC
		31% TO 50%	VERY SHELLY	75% TO 100%	PEAT

DEFINITION OF DESCRIPTIVE TERMS OF MODIFIERS FOR SILTS/CLAYS/SHELLS/GRAVELS ARE DESCRIBED AS FOLLOWS :

PERCENTAGE OF MODIFIER MATERIAL	FIRST QUALIFIER	SECOND QUALIFIER
0 - 5	WITH A TRACE OF + MODIFIER	WITH A TRACE
5 - 12	SLIGHTLY + MODIFIER + Y	WITH A LITTLE
12 - 30	MODIFIER + Y	WITH SOME
30 - 50	VERY + MODIFIER + Y	AND

RECORD OF TEST BORINGS

	GFA International, Inc. 201 Waldo Ave. N. Lehigh Acres, Florida 33971 239-489-2443 * TeamGFA.com	Client: David Douglas Associates, Inc. Project: Littleton Road Widening Corbett to US 41 Lee County, Florida	Date: 09/03/19 Job No: 19-2732 Drawn By: RMG Approved by: AJD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ADAM J. DORNACKER, P.E.
 P.E. LICENSE NUMBER 85319
 GFA INTERNATIONAL INC.
 201 WALDO AVE N
 LEHIGH ACRES, FL 33971

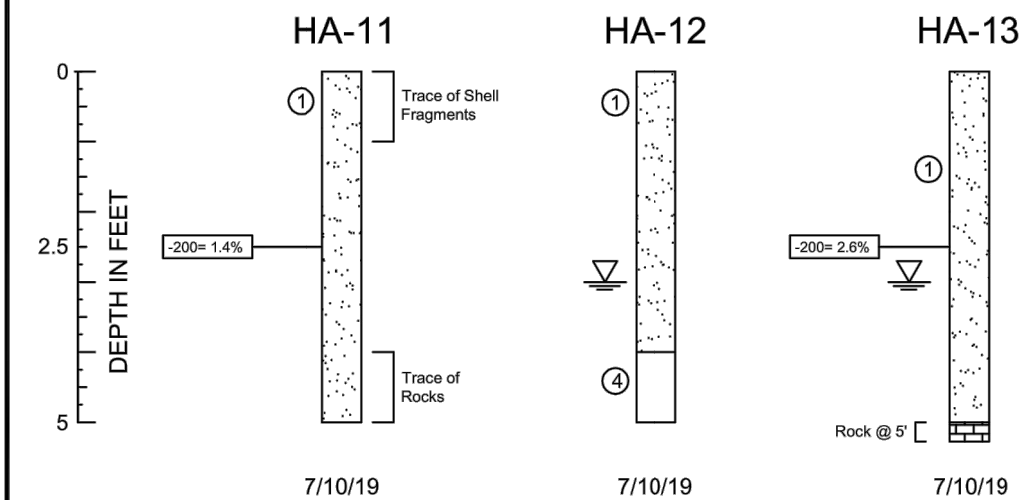
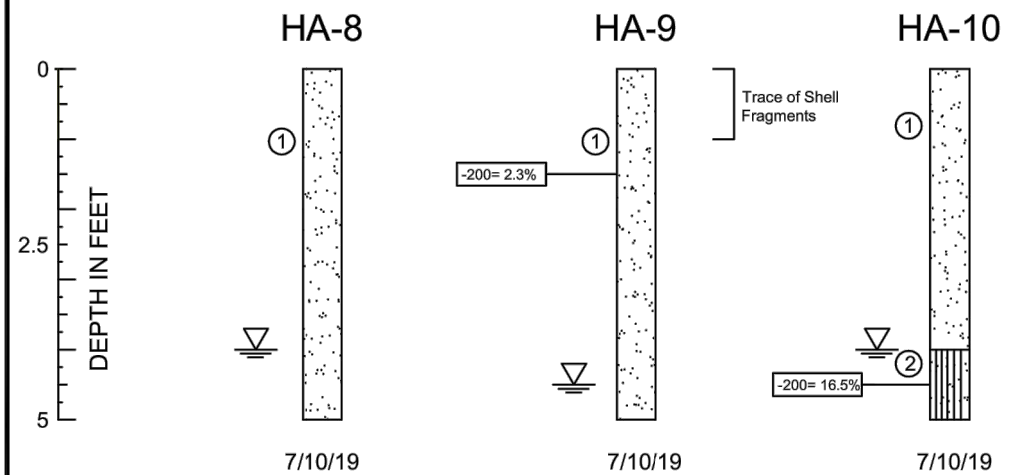
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY SOIL SURVEY

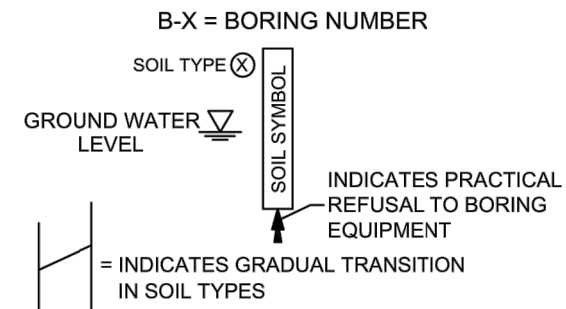
SHEET NO.
 GR-2

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SOIL PROFILES



SOIL PROFILE LEGEND



NOTES:

N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE. NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

WOH - BORING INTERVAL ADVANCED UNDER WEIGHT OF HAMMER.

HA - HAND AUGER

SOIL LEGEND

- ① Tan, Orange, Light Gray to Dark Gray, Fine SAND (A-3)
- ② Gray to Dark Gray, Dark Brown, Orange, Silty SAND (A-2-4)
- ③ Black, ASPHALT
- ④ NO RECOVERY

SOIL CLASSIFICATION

APPROXIMATE FINES CONTENT	MODIFIERS	APPROXIMATE SHELL CONTENT	MODIFIERS	APPROXIMATE ORGANIC CONTENT	MODIFIERS
5% TO 15%	SLIGHTLY SILTY OR SLIGHTLY CLAYEY	0% TO 5%	WITH A TRACE OF SHELL	0% TO 5%	WITH A TRACE
16% TO 25%	SILTY OR CLAYEY	6% TO 12%	SLIGHTLY SHELLY	5% TO 20%	WITH ORGANICS
26% TO 49%	VERY SILTY OR VERY CLAYEY	13% TO 30%	SHELLY	20% TO 75%	HIGHLY ORGANIC
		31% TO 50%	VERY SHELLY	75% TO 100%	PEAT

DEFINITION OF DESCRIPTIVE TERMS OF MODIFIERS FOR SILTS/CLAYS/SHELLS/GRAVELS ARE DESCRIBED AS FOLLOWS :

PERCENTAGE OF MODIFIER MATERIAL	FIRST QUALIFIER	SECOND QUALIFIER
0 - 5	WITH A TRACE OF + MODIFIER	WITH A TRACE
5 - 12	SLIGHTLY + MODIFIER + Y	WITH A LITTLE
12 - 30	MODIFIER + Y	WITH SOME
30 - 50	VERY + MODIFIER + Y	AND

RECORD OF TEST BORINGS

	GFA International, Inc. 201 Waldo Ave. N. Lehigh Acres, Florida 33971 239-489-2443 * TeamGFA.com	Client: David Douglas Associates, Inc. Project: Littleton Road Widening Corbett to US 41 Lee County, Florida	Date: 09/03/19 Job No: 19-2732 Drawn By: RMG Approved by: AJD
	LEE COUNTY DEPARTMENT OF TRANSPORTATION		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ADAM J. DORNACKER, P.E.
 P.E. LICENSE NUMBER 85319
 GFA INTERNATIONAL INC.
 201 WALDO AVE N
 LEHIGH ACRES, FL 33971

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

ROADWAY SOIL SURVEY

SHEET NO.

GR-3

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TRANSITION PAY ITEMS

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
0102 1	MAINTENANCE OF TRAFFIC	LS	1
0120 1	REGULAR EXCAVATION	CY	78
0120 3	LATERAL DITCH EXCAVATION	CY	50
0120 6	EMBANKMENT	CY	595
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (AVG. 2" THICKNESS OVERLAY)	TN	13.9
0570 1 1	PERFORMANCE TURF	SY	1482
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2
0706 1 3	RAISED PAVT. MARKER, TYPE B, Y/Y	EA	49
0710 11 101	PAINTED PAVEMENT MARKINGS, STD, WHITE SOLID 6"	GM	0.142
0710 11 201	PAINTED PAVEMENT MARKINGS, STD, YELLOW SOLID 6"	GM	0.523
0710 11 224	PAINTED PAVEMENT MARKINGS, STD, YELLOW SOLID DIAGONAL OR CHEVRON, 18"	LF	244

TRANSITION GENERAL NOTES:

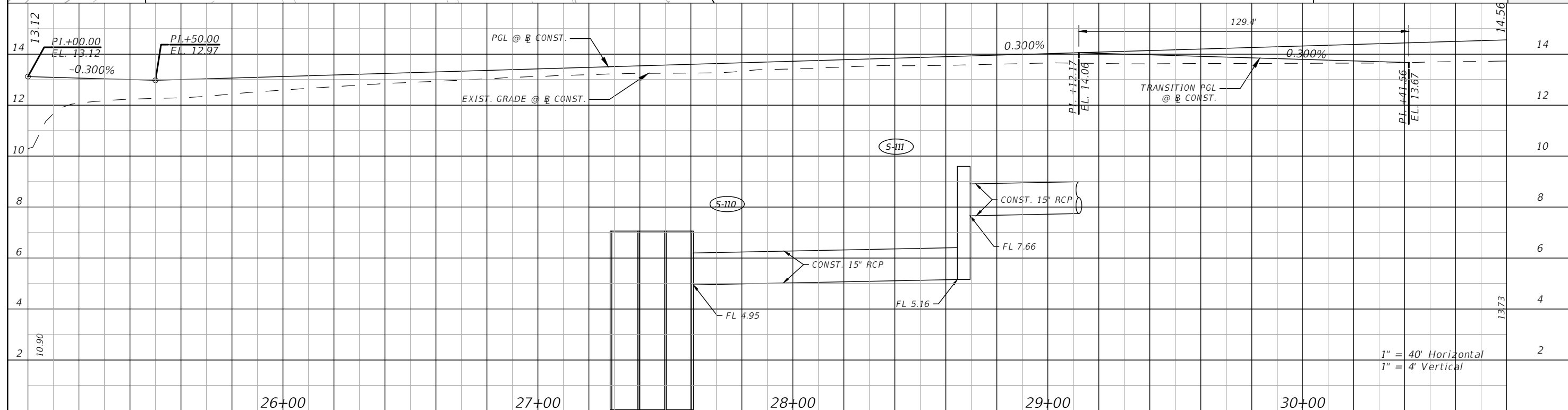
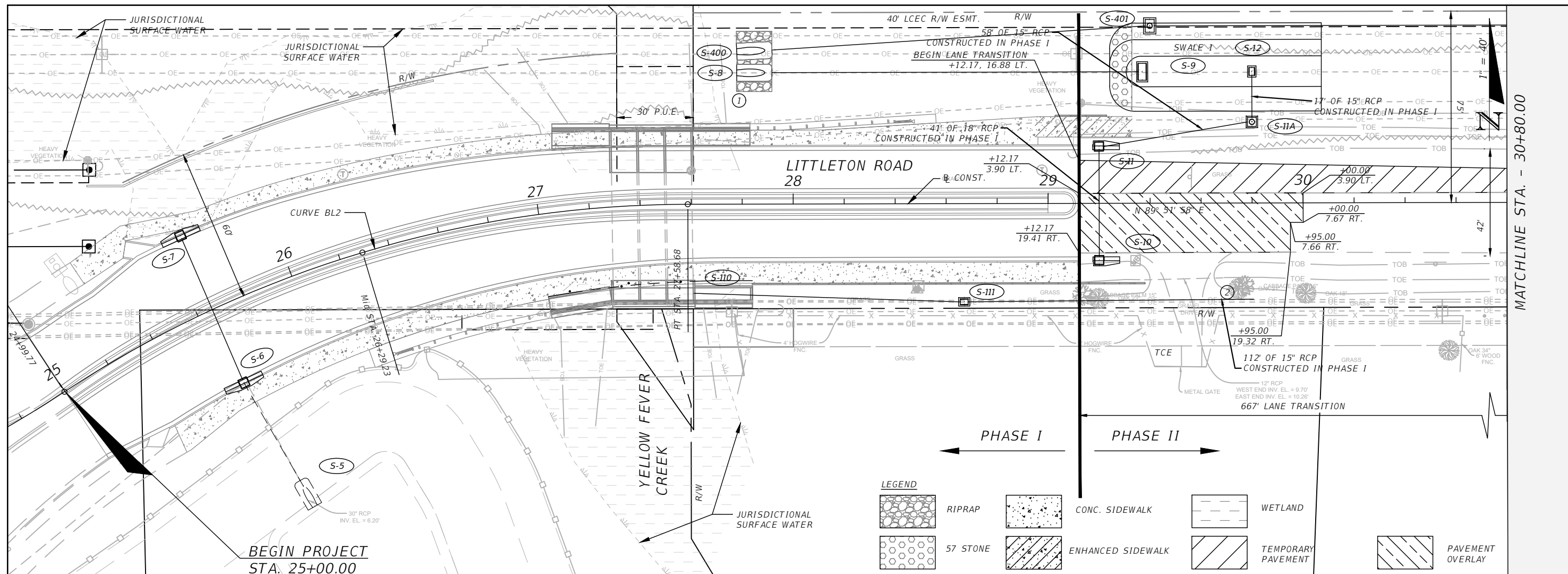
1. PHASE LINE REPRESENTS DEMARCATION BETWEEN PHASE I AND PHASE II.
2. THE TRANSITION PLANS ARE FOR THE COORDINATION BETWEEN PHASE I AND THE EXISTING CONDITIONS EAST OF PHASE I LIMITS.
3. THE TRANSITION PLANS ARE TO BE IMPLEMENTED AS NEEDED UNTIL PHASE II NTP IS ISSUED AND IMPROVEMENTS CAN BE MADE.
4. IT IS THE CONTRACTORS OPTION TO UTILIZE THE TRANSITION PLANS IN THE PHASE II CONSTRUCTION TEMPORARY TRAFFIC CONTROL.
5. THE TEMPORARY PAVEMENT AND PAVEMENT OVERLAY IN THE TRANSITION PLANS SHALL NOT BE UTILIZED IN THE FINAL PAVEMENT SECTION FOR THE PHASE II LIMITS. REFER TO THE TYPICAL SECTIONS FOR THE REQUIRED PAVEMENT PARAMETERS IN PHASE II.

PHASING GENERAL NOTES:

1. REFER TO ROADWAY, SIGNING & PAVEMENT MARKING AND STRUCTURE PLANS FOR ADDITIONAL INFORMATION FOR ITEMS EXTENDING FROM PHASE I INTO PHASE II, OR NOTED IN PHASE II LIMITS WITHIN THE TRANSITION AREA, THAT ARE PART OF THE PERMANENT CONSTRUCTION/ IMPROVEMENTS. PAY ITEMS NOTED ABOVE ARE FOR THE TEMPORARY ITEMS IN THE TRANSITION AREA THAT WILL BE REMOVED, MODIFIED AND/OR REPLACED BY THE PHASE II IMPROVEMENTS.
2. INSTALL 2 IRRIGATION SLEEVES ONLY, IN THE MEDIAN IN PHASE I. LANDSCAPING AND IRRIGATION FOR THE ENTIRE PROJECT IS TO BE INSTALLED IN PHASE II. REFER TO LANDSCAPE AND IRRIGATION PLANS FOR MORE INFORMATION.
3. INSTALL PULL BOXES AND CONDUIT IN PHASE I AREA AS SHOWN IN THE LIGHTING PLANS. CONDUIT ON NORTH SIDE SHALL EXTEND TO STATION 32+20, AND CONDUIT ON SOUTH SIDE SHALL EXTEND TO STATION 31+90. SEE LIGHTING PLANS FOR MORE INFORMATION.
4. BRIDGE CONSTRUCTION AT YELLOW FEVER CREEK SHALL BE COMPLETED IN PHASE I. THE BOX CULVERT EXTENSION AT EAST BRANCH YELLOW FEVER CREEK SHALL BE CONSTRUCTED IN PHASE II. REFER TO STRUCTURE PLANS FOR MORE INFORMATION.

REVISIONS				DANIEL M. CRAIG, P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TRANSITION GENERAL NOTES AND PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	CONTRACT NO.		TR-1
----	----				LITTLETON ROAD	LEE	CN190114		

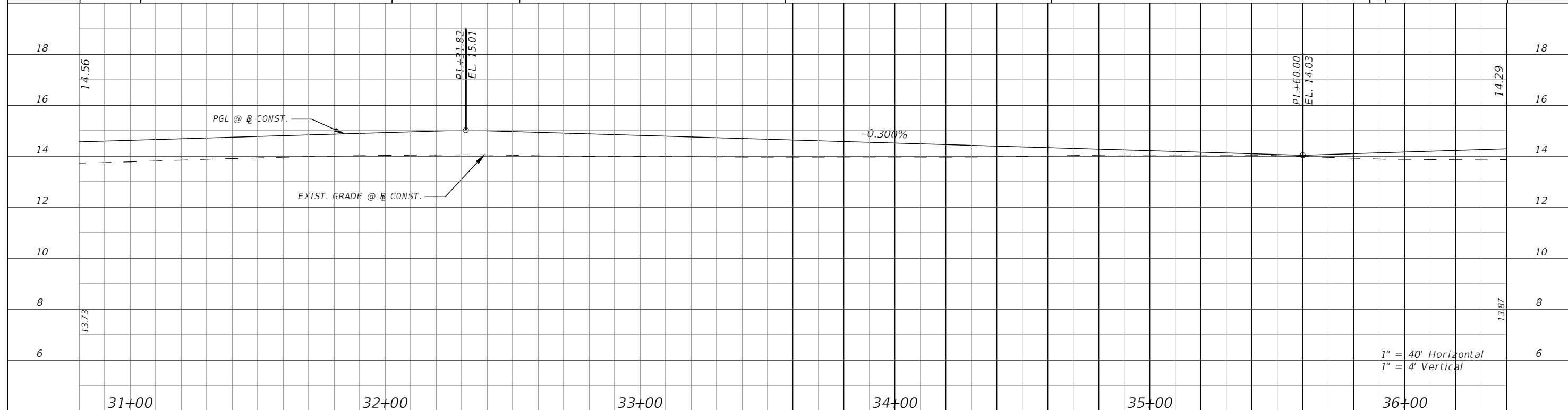
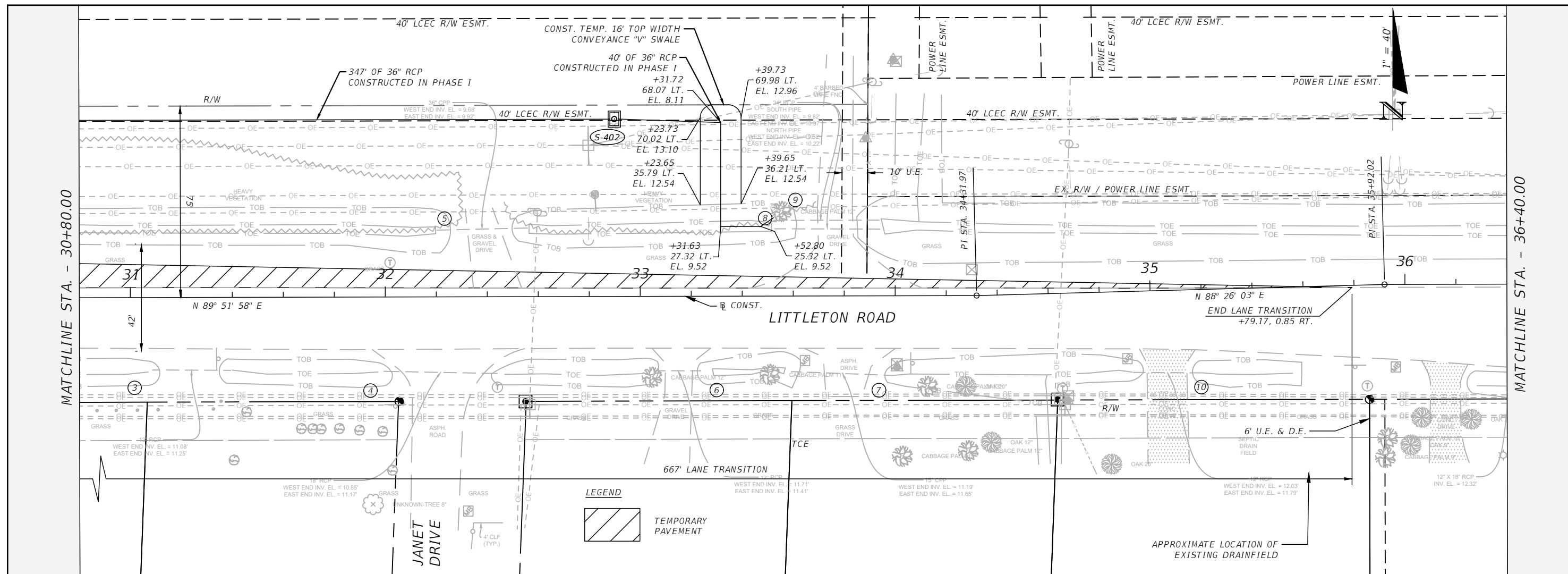
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DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 CARDNO, INC. 1821 VICTORIA AVE FORT MYERS, FL 33901	LEE COUNTY DEPARTMENT OF TRANSPORTATION		TRANSITION ROADWAY PLAN AND PROFILE	SHEET NO.
					ROAD NAME LITTLETON ROAD	COUNTY LEE		CONTRACT NO. CN190114

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MATCHLINE STA. - 30+80.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

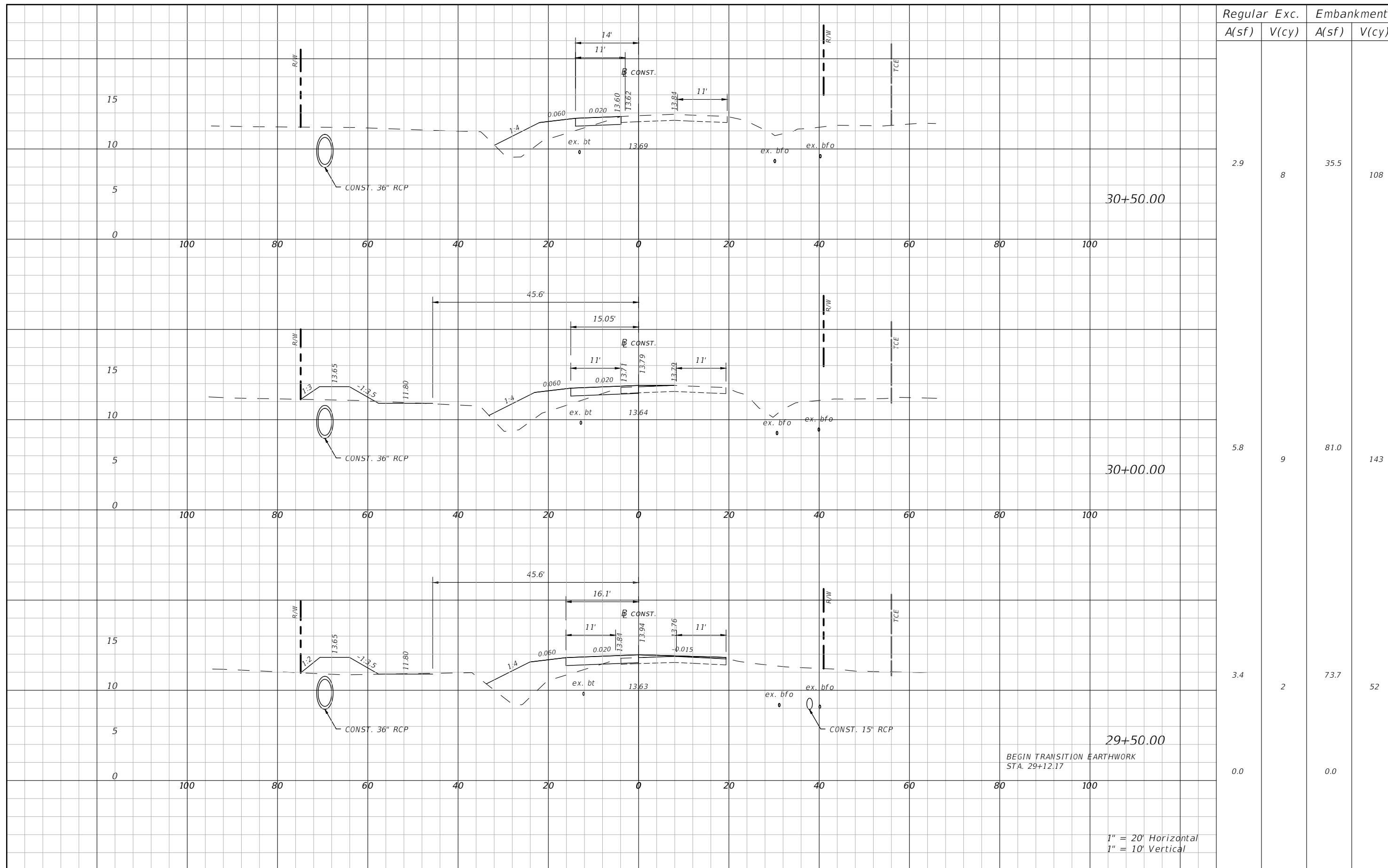
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TRANSITION ROADWAY PLAN
AND PROFILE

SHEET NO.
TR-3

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
2.9	8	35.5	108		
5.8	9	81.0	143		
3.4	2	73.7	52		
0.0		0.0			

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

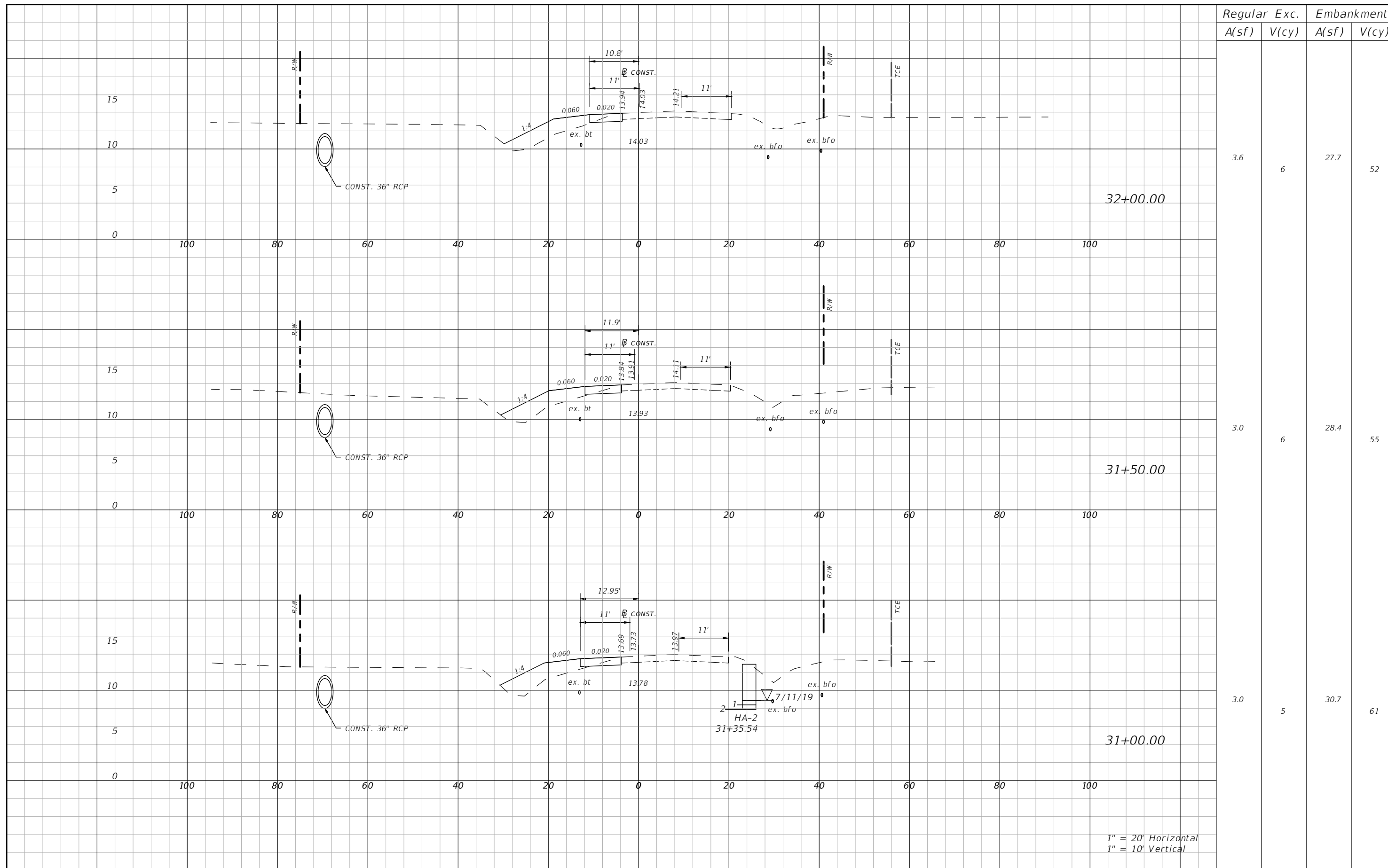
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TRANSITION CROSS SECTIONS

SHEET NO.
TR-4

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

3.6	6	27.7	52		
3.0	6	28.4	55		
3.0	5	30.7	61		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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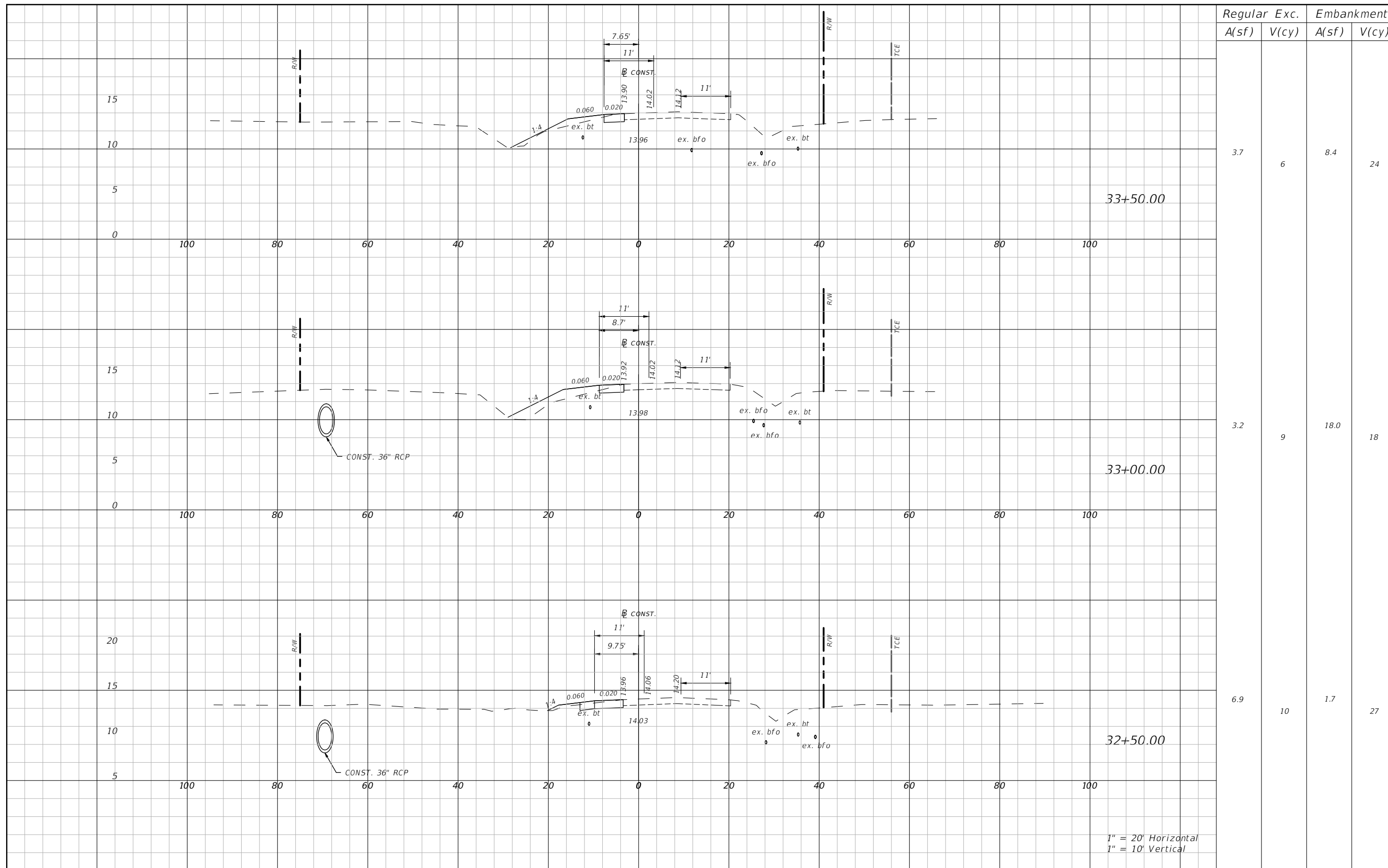
DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TRANSITION CROSS SECTIONS

SHEET NO.
TR-5

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

3.7	6	8.4	24		
3.2	9	18.0	18		
6.9	10	1.7	27		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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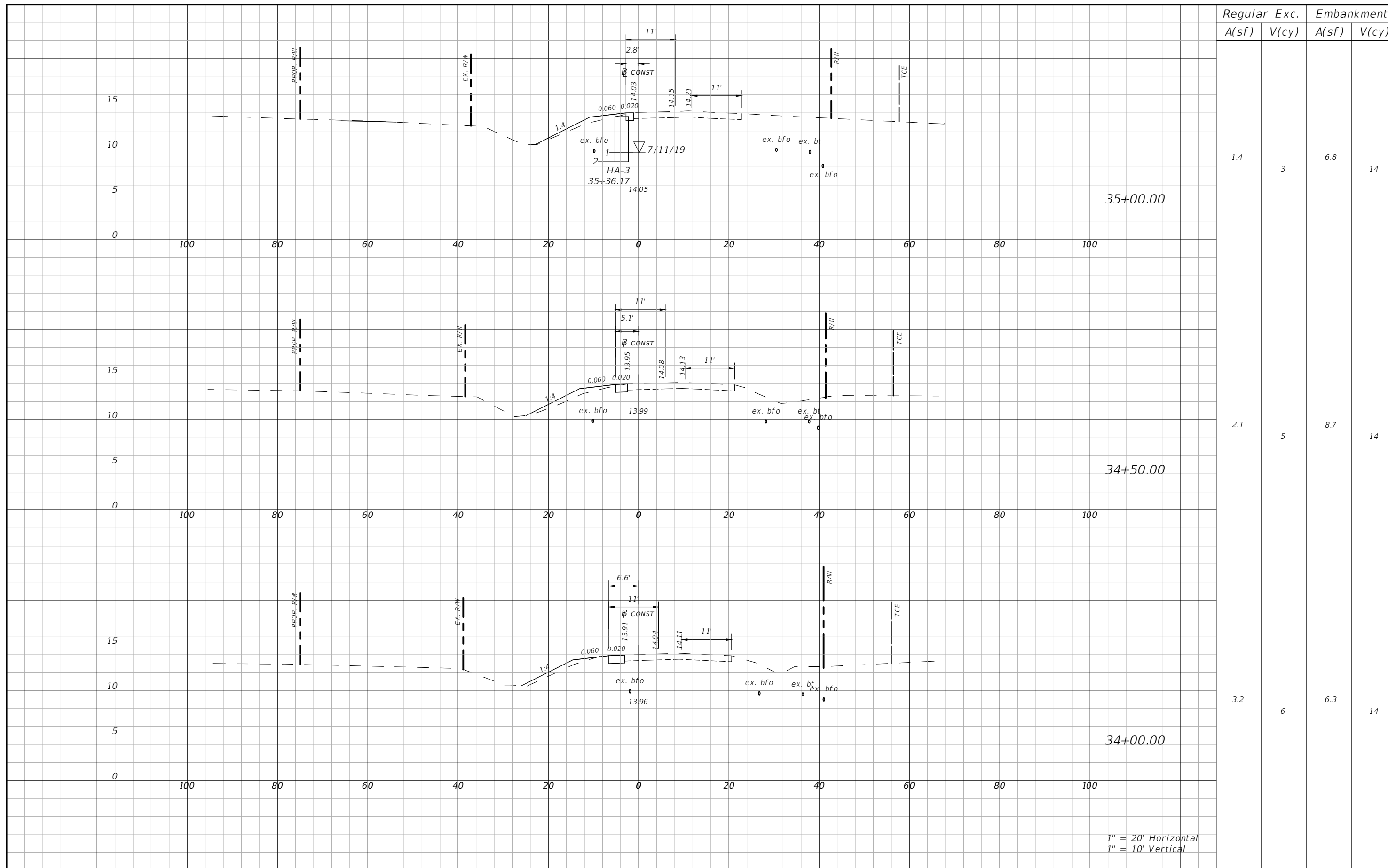
DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TRANSITION CROSS SECTIONS

SHEET NO.
TR-6

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1.4	3	6.8	14
-----	---	-----	----

2.1	5	8.7	14
-----	---	-----	----

3.2	6	6.3	14
-----	---	-----	----

1" = 20' Horizontal
1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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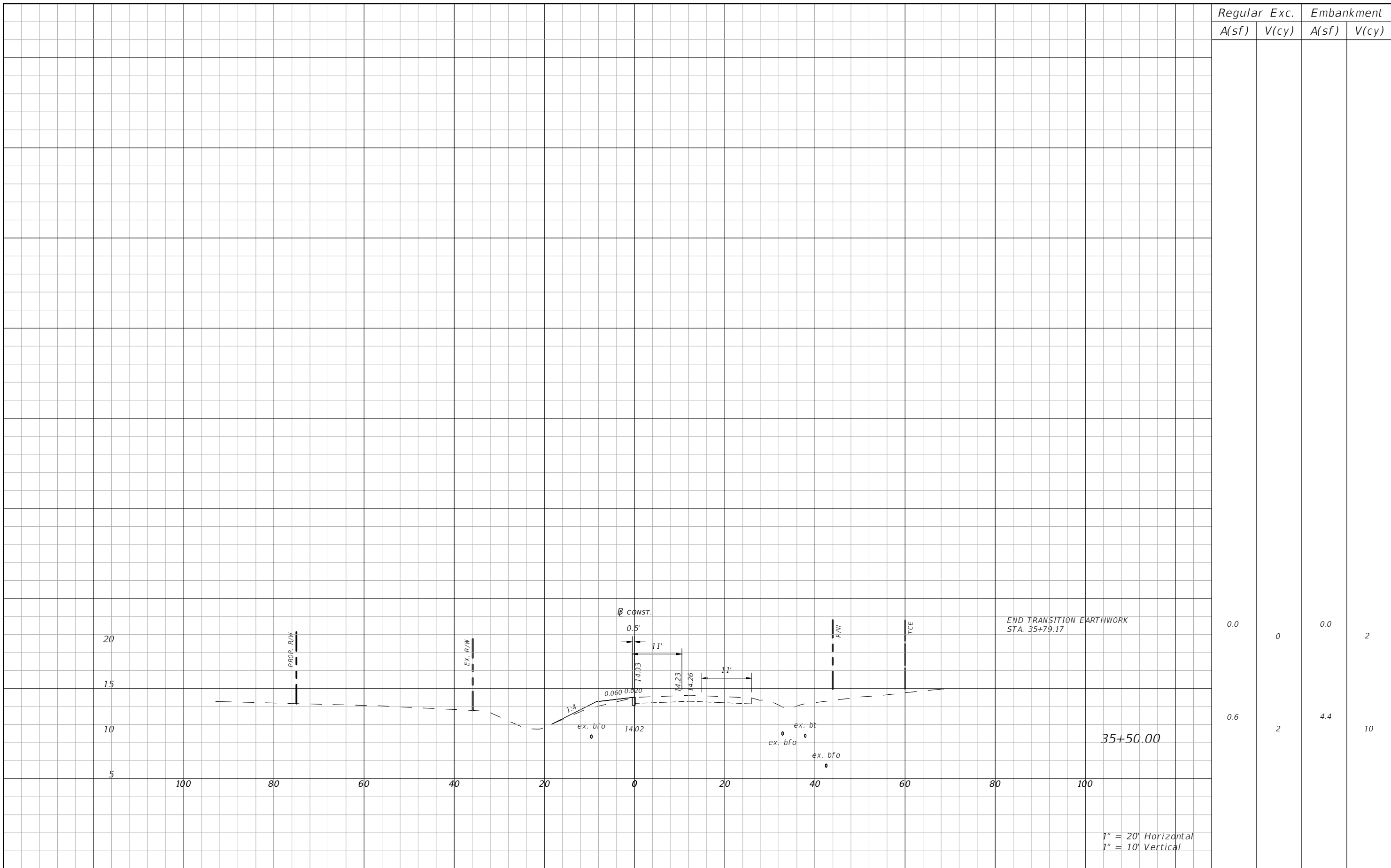
DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

TRANSITION CROSS SECTIONS

SHEET NO.
TR-7



Regular A(sf)	Exc. V(cy)	Embankment A(sf)	V(cy)
------------------	---------------	---------------------	-------

0.0	0	0.0	2
0.6	2	4.4	10

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG,
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

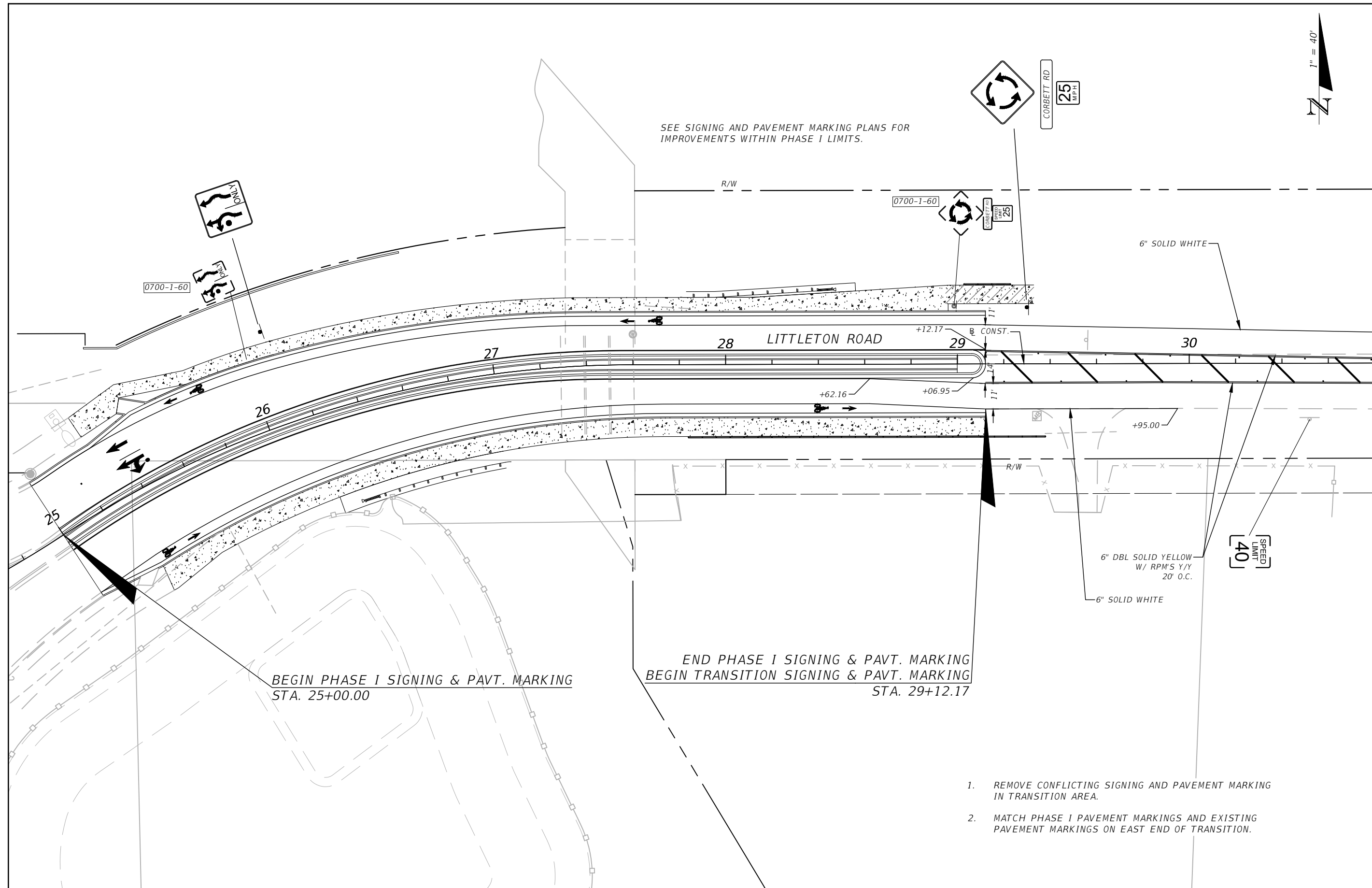
TRANSITION CROSS SECTIONS

SHEET NO. TR-8

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SEE SIGNING AND PAVT. MARKING PLANS FOR IMPROVEMENTS WITHIN PHASE I LIMITS.



BEGIN PHASE I SIGNING & PAVT. MARKING
STA. 25+00.00

END PHASE I SIGNING & PAVT. MARKING
BEGIN TRANSITION SIGNING & PAVT. MARKING
STA. 29+12.17

1. REMOVE CONFLICTING SIGNING AND PAVEMENT MARKING IN TRANSITION AREA.
2. MATCH PHASE I PAVEMENT MARKINGS AND EXISTING PAVEMENT MARKINGS ON EAST END OF TRANSITION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG
P.E. LICENSE NUMBER 38590
CARDNO, INC.
1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

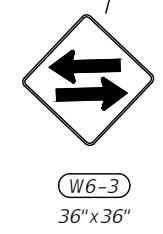
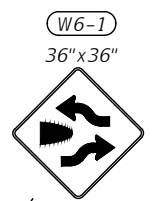
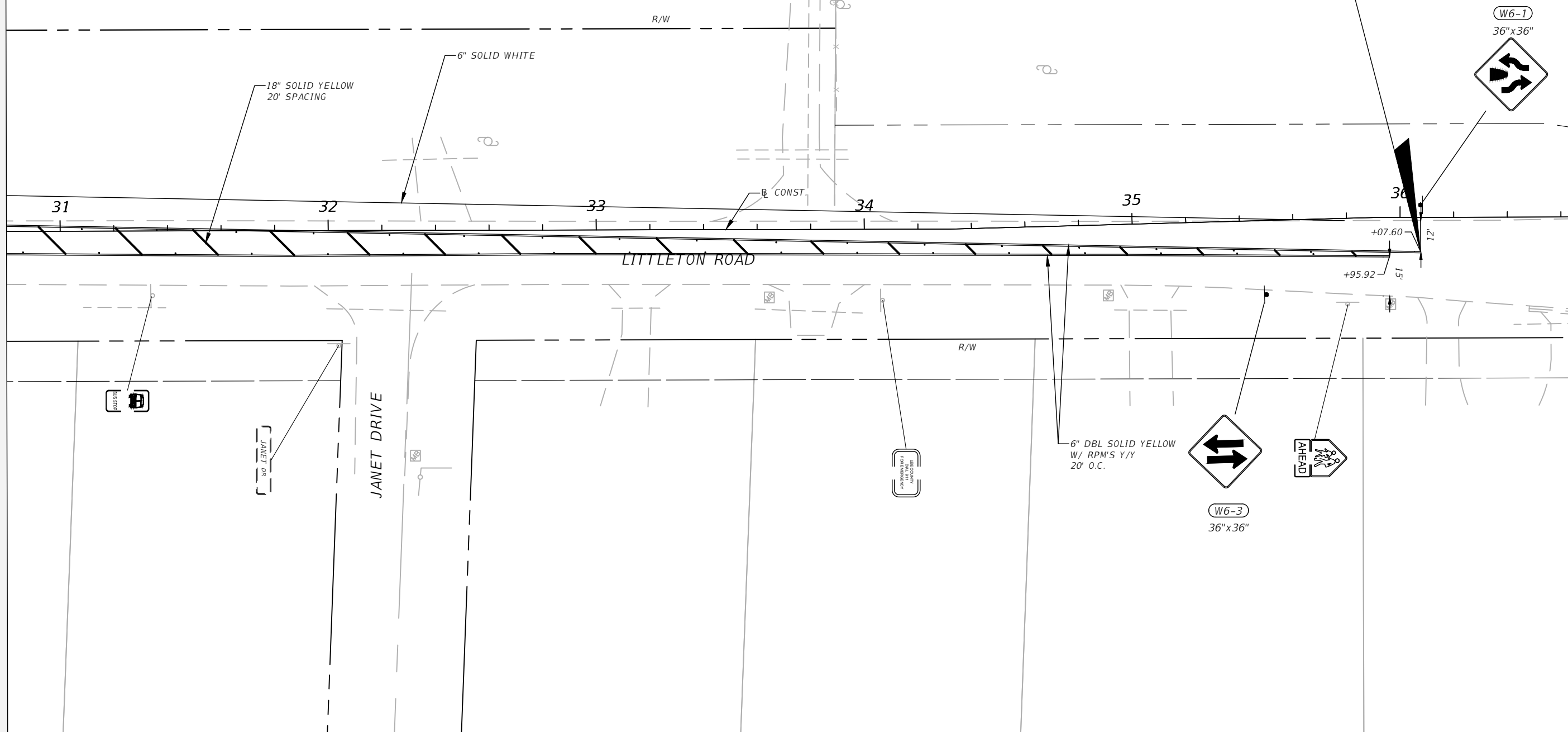
**TRANSITION SIGNING &
PAVEMENT MARKING PLAN**

SHEET NO.
TR-9

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END TRANSITION SIGNING & PAVT. MARKING
STA. 36+07.60



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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1821 VICTORIA AVE
FORT MYERS, FL 33901

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	CONTRACT NO.
LITTLETON ROAD	LEE	CN190114

**TRANSITION SIGNING &
PAVEMENT MARKING PLAN**

SHEET NO.
TR-10

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