CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS

LEE COUNTY BOARD OF COUNTY COMMISSIONERS

PUBLIC WORKS ADMINISTRATION
DEPARTMENT OF TRANSPORTATION
CONTRACT PLANS

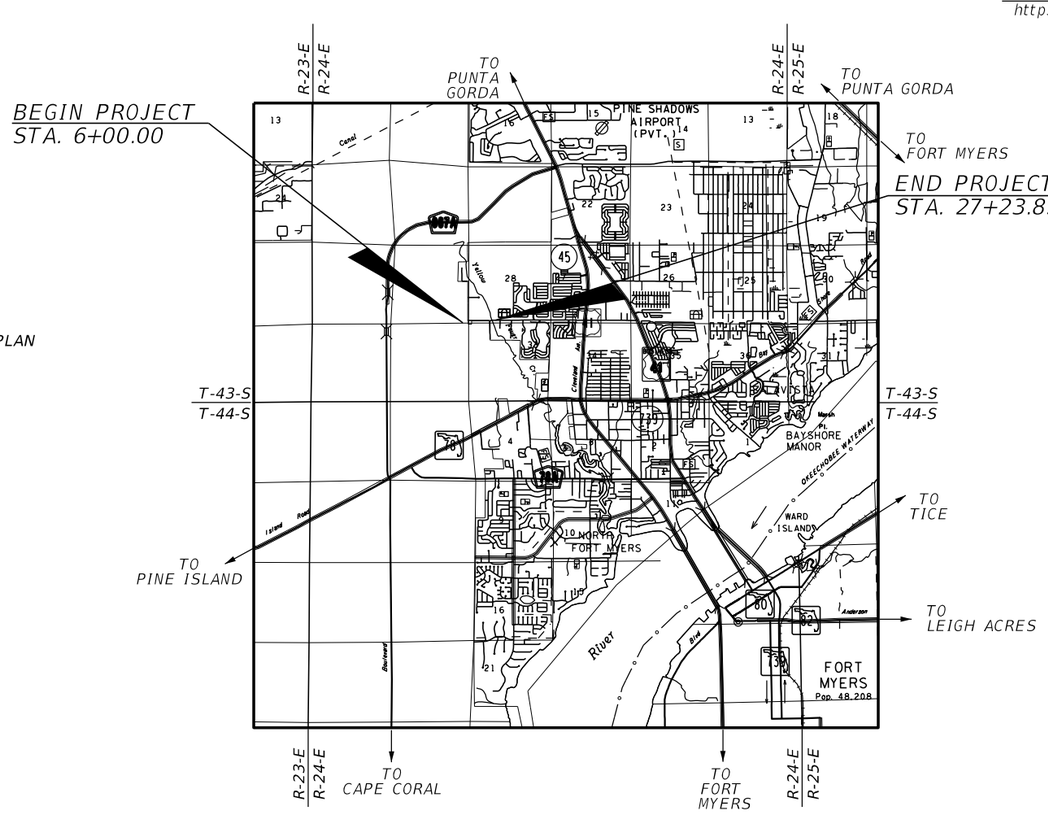
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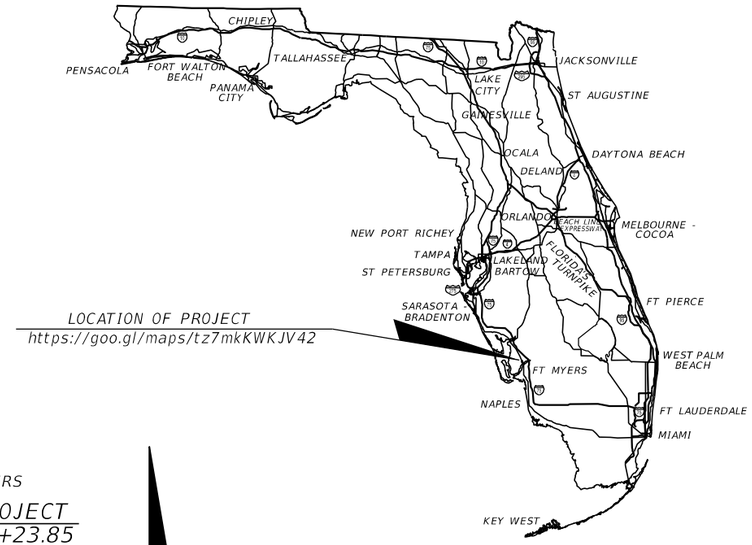
LITTLETON / KISMET REALIGNMENT

COUNTY PROJECT NO. CN160459DLK

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GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2019-20 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

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2019 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

ROADWAY PLANS ENGINEER OF RECORD:

ADAM R. AGUILA, P.E.
P.E. NO.: 76008
AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE, STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CONTRACT NO. C7678
VENDOR NO. F650197775003
CERTIFICATE OF AUTHORIZATION NO. 3114

LEE COUNTY PROJECT MANAGER:

VINCENT J. MILLER, P.E.

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SHEET NO.
1

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ADAM R. AGUILA
LICENSE
No. 76008
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Adam R Aguila
2019.07.11 17:30:45-04'00'

ON THE DATE ADJACENT TO THE SEAL

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AIM ENGINEERING & SURVEYING, INC.
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ADAM AGUILA, P.E. 76008

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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SQ-1 - SQ-10	SUMMARY OF QUANTITIES

ANDREW GREGG
LICENSE
No. 72443
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Andrew Gregg
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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
4	DRAINAGE MAP
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35 - 40	DRAINAGE STRUCTURES
41 - 46	POND DETAILS
72 - 73	STORMWATER POLLUTION PREVENTION PLAN

ERICK M. FREDERICK
LICENSE
No. 63920
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Erick M Frederick
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TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION NO. 6486
ERICK M. FREDERICK, P.E. 63920

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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
47 - 49	ROADWAY SOIL SURVEY

NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 COROREX PARK DRIVE STE. 225
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LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900

DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

SIGNATURE SHEET

SHEET NO. 2

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LEE COUNTY DEPARTMENT OF TRANSPORTATION
PROJECT SUMMARY OF PAY ITEMS
FOR PROJECT: CN160459DLK

0200 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	CN160459	QUANTITY TOTAL
		0101- 1-	MOBILIZATION	EA	1.000	1.000
		0102- 1	MAINTENANCE OF TRAFFIC	LS	1.000	1.000
		0104- 10- 3	SEDIMENT BARRIER	LF	5462.000	5462.000
		0104- 15	SOIL TRACKING PREVENTION DEVICE	EA	2.000	2.000
		0104- 18	INLET PROTECTION SYSTEMS	EA	4.000	4.000
		0107- 1	LITTER REMOVAL	AC	35.400	35.400
		0107- 2	MOWING	AC	12.400	12.400
		0110- 1- 1	CLEARING & GRUBBING (7.70 AC)	(LS)	1.000	1.000
		0110- 1- 1A	CLEARING & GRUBBING (1828 CORBETT RD BUILDING DEMOLITION)	(LS)	1.000	1.000
		0110- 7- 1	MAILBOX	EA	6.000	6.000
		0120- 1-	REGULAR EXCAVATION	CY	11656.200	11656.200
		0120- 6-	EMBANKMENT	CY	7531.600	7531.600
		0160- 4-	TYPE B STABILIZATION	SY	14908.000	14908.000
		0285-706-	OPTIONAL BASE, BASE GROUP 06	SY	14659.000	14659.000
		0286- 1-	TURNOUT	SY	865.000	865.000
		0327- 70- 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	3551.000	3551.000
		0327- 70- 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	1939.000	1939.000
		0334- 1- 13	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C	TN	1912.900	1912.900
		0337- 7- 82	ASPHALT CONCRETE FRICTION COURSE, TRF C, FC-9.5, PG 76-22	TN	1107.300	1107.300
		0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	EA	4.600	4.600
		0350- 30- 13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	SY	206.000	206.000
		0425 1351	INLETS, CURB, TYPE P-5, <10	EA	10.000	10.000
		0425 1361	INLETS, CURB, TYPE P-6, <10	EA	5.000	5.000
		0425 1451	INLETS, CURB, TYPE J-5, <10	EA	2.000	2.000
		0425 1461	INLETS, CURB, TYPE J-6, <10	EA	1.000	1.000
		0425 1529	INLETS, DT BOT, TYPE C, <10', MODIFY	EA	2.000	2.000
		0425 1541	INLETS, DT BOT, TYPE D, <10'	EA	3.000	3.000
		0425- 2- 61	MANHOLES, P-8, <10'	EA	2.000	2.000
		0425- 2- 91	MANHOLES, J-8, <10'	EA	2.000	2.000
		0425- 5- 1	MANHOLE, ADJUST, UTILITIES	EA	2.000	2.000
		0430174124	PIPE CULVERT, RCP, ROUND, 24"SD	LF	15.000	15.000
		0430175118	PIPE CULVERT, RCP, ROUND, 18"S/CD	LF	1353.000	1353.000
		0430175124	PIPE CULVERT, RCP, ROUND, 24"S/CD	LF	1033.000	1033.000
		0430175130	PIPE CULVERT, RCP, ROUND, 30"S/CD	LF	457.000	457.000
		0430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	3.000	3.000
		0430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	1.000	1.000
		0430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA	1.000	1.000
		0430984125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	1.000	1.000
		0430984129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	1.000	1.000
		0515- 1- 2	PIPE HANDRAIL, ALUMINUM	LF	20.000	20.000
		0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF	3041.000	3041.000
		0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	3508.000	3508.000
		0520- 2- 4	CONCRETE CURB , TYPE D	LF	286.000	286.000
		0520- 2- 8	CONCRETE CURB, TYPE RA	LF	333.000	333.000
		0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	2882.000	2882.000
		0527- 2-	DETECTABLE WARNINGS	SF	435.000	435.000

LEE COUNTY DEPARTMENT OF TRANSPORTATION
PROJECT SUMMARY OF PAY ITEMS
FOR PROJECT: CN160459DLK

0200 SUMMARY OF ROADWAY (CONTINUED)

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	CN160459	QUANTITY TOTAL
		0536- 1	GUARDRAIL, ROADWAY, GENERAL/LOW SPEED TL-2	LF	131.000	131.000
		0536- 73	GUARDRAIL REMOVAL	LF	92.000	92.000
		0536- 85- 24	GUARDRAIL END TREATMENT - PARALLEL APPROACH TERMINAL	EA	2.000	2.000
		0550- 10-222	FENCING, TYPE B, 5.1-6.0, W/ VINYL COATING	LF	764.000	764.000
		0550- 60-225	FENCE GATE , TYPE B, DOUBLE, 20.1-24' OPENING	EA	1.000	1.000
		0570- 1- 2	PERFORMANCE TURF, SOD	SY	23295.000	23295.000

LEE COUNTY DEPARTMENT OF TRANSPORTATION
PROJECT SUMMARY OF PAY ITEMS
FOR PROJECT: CN160459DLK

0300 SUMMARY OF SIGNING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	CN160459	QUANTITY TOTAL
		0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	45.000	45.000
		0700- 1- 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2.000	2.000
		0700- 1- 50	SINGLE POST SIGN, RELOCATE	AS	6.000	6.000
		0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	16.000	16.000
		0700- 2- 60	MULTI-POST SIGN, REMOVE	AS	2.000	2.000
		0700- 3101	SIGN PANEL, F&I, UP TO 12 SF	EA	1.000	1.000
		0700- 3601	SIGN PANEL, REMOVE, UP TO 12 SF	EA	2.000	2.000
		0700- 6- 21	HIGHLIGHTED SIGN, F&I GROUND MOUNT- SOLAR POWERED, <12 SF	AS	2.000	2.000
		0705- 10- 1	OBJECT MARKER, TYPE 1	EA	6.000	6.000
		0705- 10- 4	OBJECT MARKER, TYPE 4	EA	6.000	6.000
		0710- 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1.000	1.000
		0711- 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	699.000	699.000
		0711- 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	130.000	130.000
		0711- 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	81.000	81.000
		0711- 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM	0.038	0.038
		0711- 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 12" FOR ROUNDABOUT	GM	0.032	0.032
		0711- 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	6.000	6.000
		0711- 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	28.000	28.000
		0711- 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	66.000	66.000
		0711- 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION LINE, 6"	GM	0.085	0.085
		0711- 14125	THERMOPLASTIC, PREFORMED, WHITE, 24" SOLID FOR CROSSWALK	LF	301.000	301.000
		0711- 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	8.000	8.000
		0711- 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	8.000	8.000
		0711- 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.754	1.754
		0711- 16102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.224	0.224
		0711- 16131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.572	0.572
		0711- 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.023	1.023

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NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
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TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
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FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

SUMMARY OF PAY ITEMS

SHEET NO.
3-A

LEE COUNTY DEPARTMENT OF TRANSPORTATION
PROJECT SUMMARY OF PAY ITEMS
FOR PROJECT: CN160459DLK

0400 SUMMARY OF LIGHTING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	CN160459	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, F&I, OPEN TRENCH	LF	2325.000	2325.000
		0630- 2- 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	537.000	537.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 17" x 30" COVER SIZE	EA	23.000	23.000
		0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 6	LF	3358.000	3358.000
		0715- 4- 11	LIGHT POLE COMPLETE, F&I, STD. POLE, STD. FOUNDATION, 30' MOUNTING HEIGHT	EA	1.000	1.000
		0715- 4- 12	LIGHT POLE COMPLETE, F&I, STD. POLE, STD. FOUNDATION, 35' MOUNTING HEIGHT	EA	15.000	15.000
		0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1.000	1.000
		0715- 11-211	LUMINAIRE, F&I, REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY, COBRA HEAD	EA	1.000	1.000

LEE COUNTY DEPARTMENT OF TRANSPORTATION
PROJECT SUMMARY OF PAY ITEMS
FOR PROJECT: CN160459DLK

1000 SUMMARY OF UTILITIES (BY HIGHWAY CONTRACTOR)

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	CN160459	QUANTITY TOTAL
		1050-51208	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 8"	LF	120.000	120.000
		1050-61114	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 14"	LF	110.000	110.000
		1050-61124	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 24"	LF	160.000	160.000
		1055-11414	UTILITY FITTINGS, F&I, DI/CI, ELBOW, 8 - 19.9"	EA	2.000	2.000
		1055-51508	UTILITY FITTINGS, FITTINGS, DI/CI F&I CAP/PL 8"	EA	1.000	1.000
		1055-61514	UTILITY FITTINGS, FITTINGS, STEEL, F&I CAP/PL 14"	EA	2.000	2.000
		1055-61524	UTILITY FITTINGS, FITTINGS, STEEL, F&I CAP/PL 24"	EA	2.000	2.000
		1080-25102	UTILITY FIXTURE- BLOWOFF ASSEMBLY, FURNISH & INSTALL, 2"	EA	1.000	1.000

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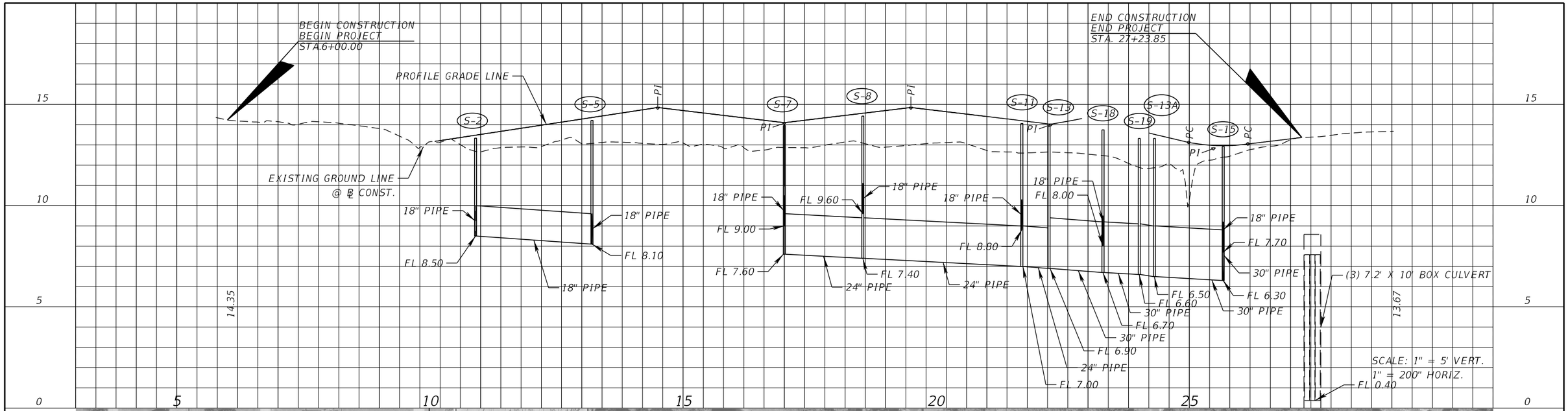
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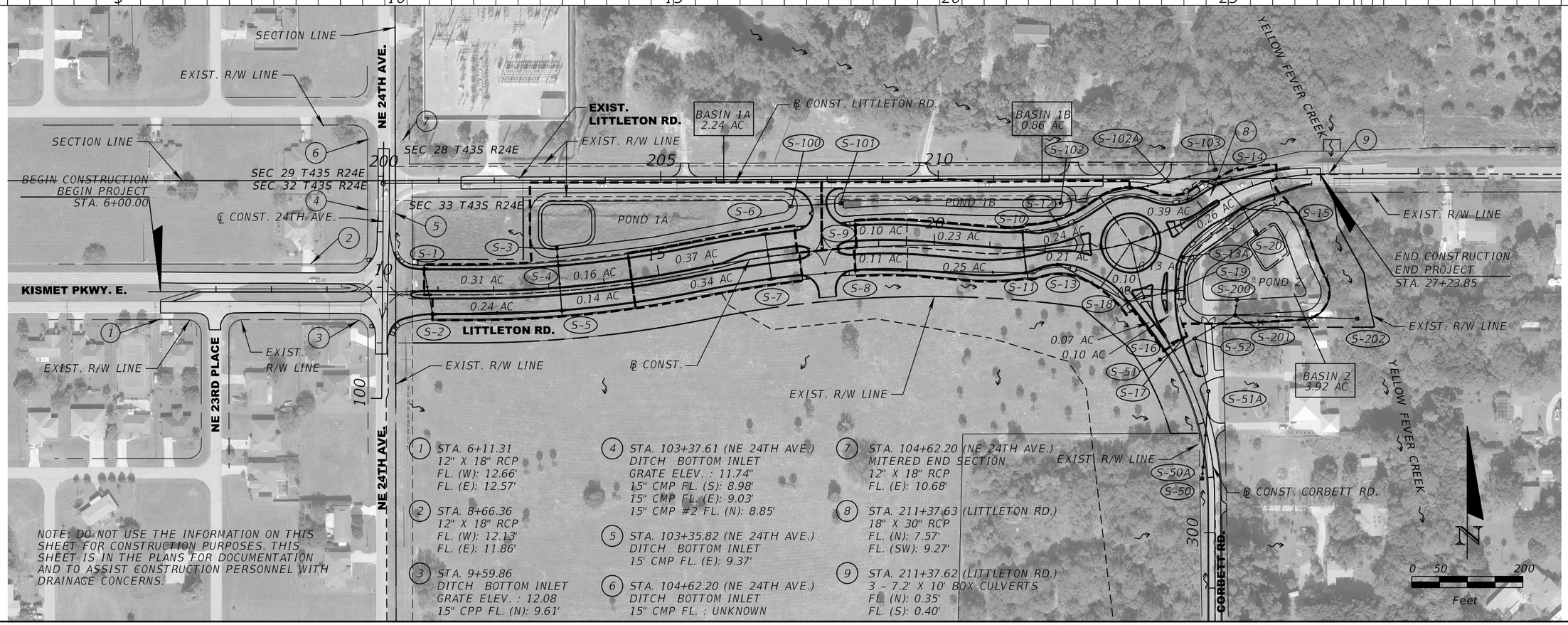
APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET
FORT MYERS, FLORIDA 33901
(239) 479-8900

SUMMARY OF PAY ITEMS

SHEET NO.
3-B





1. STA. 6+11.31
12" X 18" RCP
FL. (W): 12.66'
FL. (E): 12.57'

2. STA. 8+66.36
12" X 18" RCP
FL. (W): 12.13'
FL. (E): 11.86'

3. STA. 9+59.86
DITCH BOTTOM INLET
GRATE ELEV. : 12.08
15" CPP FL. (N): 9.61'

4. STA. 103+37.61 (NE 24TH AVE.)
DITCH BOTTOM INLET
GRATE ELEV. : 11.74"
15" CMP FL. (S): 8.98'
15" CMP FL. (E): 9.03'
15" CMP #2 FL. (N): 8.85'

5. STA. 103+35.82 (NE 24TH AVE.)
DITCH BOTTOM INLET
15' CMP FL. (E): 9.37'

6. STA. 104+62.20 (NE 24TH AVE.)
DITCH BOTTOM INLET
15" CMP FL. : UNKNOWN

7. STA. 104+62.20 (NE 24TH AVE.)
MITERED END SECTION
12" X 18" RCP
FL. (E): 10.68'

8. STA. 211+37.63 (LITTLETON RD.)
18" X 30" RCP
FL. (N): 7.57'
FL. (SW): 9.27'

9. STA. 211+37.62 (LITTLETON RD.)
3 - 7.2' X 10' BOX CULVERTS
FL. (N): 0.35'
FL. (S): 0.40'

NOTE: DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

NO.	DATE	BY	REVISIONS - DESCRIPTION

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TAMPA, FLORIDA 33619
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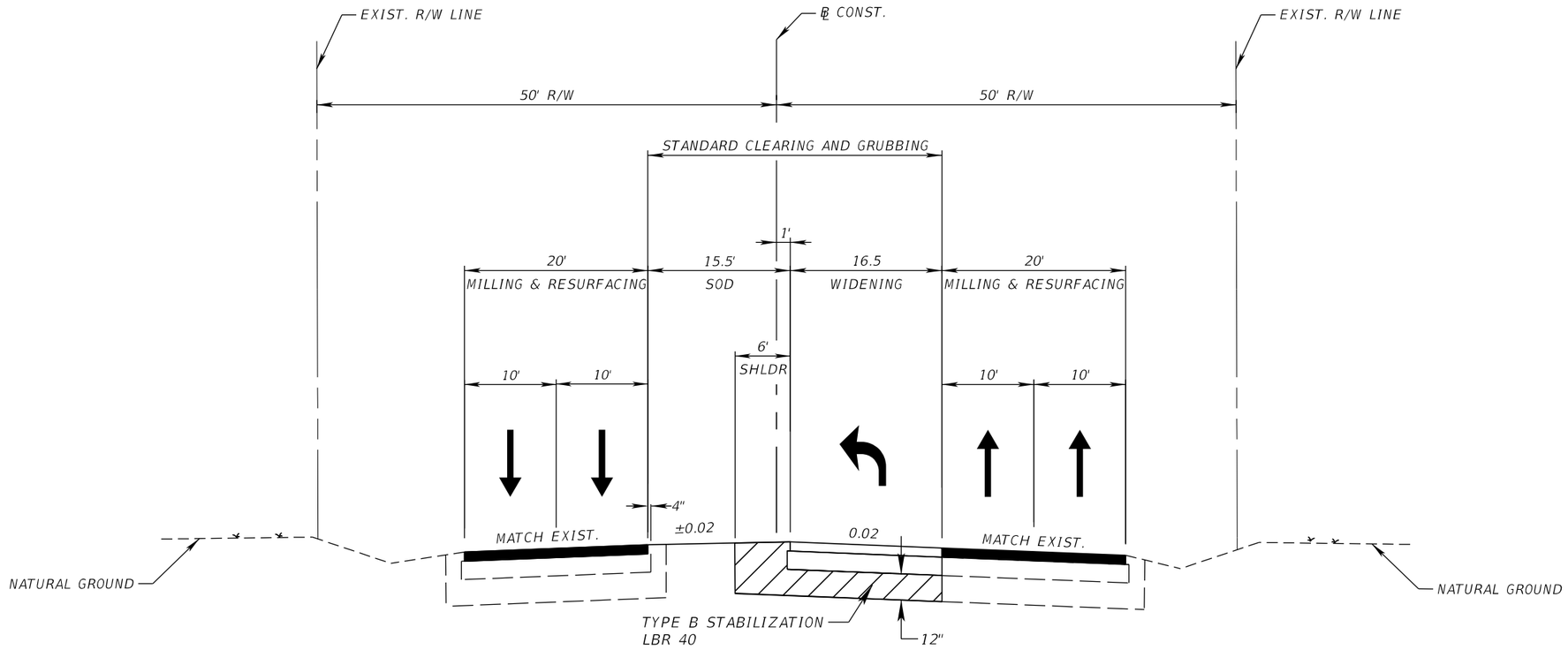
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FORT MYERS, FLORIDA 33901

DRAINAGE MAP

SHEET NO. 4

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TYPICAL SECTION 1
KISMET PARKWAY EAST
STA. 6+00.00 TO STA. 10+00.00

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1.5" AVG. DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

NEW CONSTRUCTION (WIDENING)

OPTIONAL BASE GROUP 6* WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

TRAFFIC DATA

EXISTING YEAR = 2019 AADT = 6,800
ESTIMATED OPENING YEAR = 2020 AADT = 7,500
ESTIMATED DESIGN YEAR = 2040 AADT = 20,600
K = 10.5% D = 61.5% T = 4.0% (24 HOUR)
DESIGN HOUR T = 2.00%
DESIGN SPEED = 50 MPH

* OPTIONAL BASE GROUP EXCLUDES:
- CEMENTED COQUINA
- SHELL BASE / BANK RUN SHELL
- SHELL ROCK

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NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

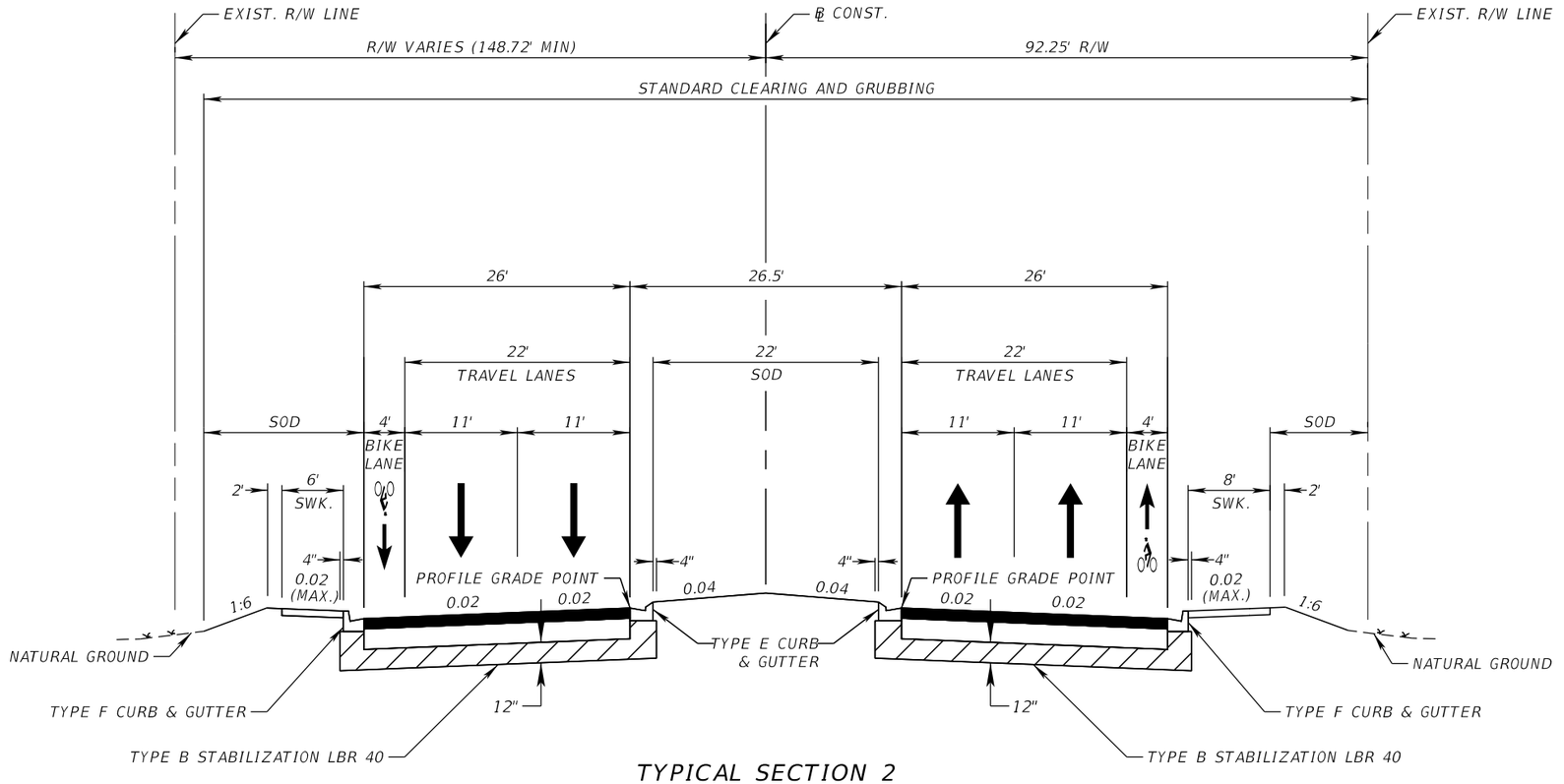
APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

TYPICAL SECTIONS

SHEET NO. 5

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TYPICAL SECTION 2
LITTLETON ROAD
STA. 10+00.00 TO STA. 27+23.85

NEW CONSTRUCTION (TRAVEL AND BIKE LANES)

OPTIONAL BASE GROUP 6*
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

* OPTIONAL BASE GROUP EXCLUDES:
- CEMENTED COQUINA
- SHELL BASE / BANK RUN SHELL
- SHELL ROCK

TRAFFIC DATA

EXISTING YEAR = 2019 AADT = 6,800
ESTIMATED OPENING YEAR = 2020 AADT = 7,500
ESTIMATED DESIGN YEAR = 2040 AADT = 20,600
K = 10.5% D = 61.5% T = 4.0% (24 HOUR)
DESIGN HOUR T = 2.00%
DESIGN SPEED = 45 MPH

A MINIMUM ROADWAY CROWN ELEVATION OF 13.3' IS PROVIDED FROM 10+09.58 TO 14+50.00 AND 12.3' FROM 14+50.00 TO 27+22.84. THIS MEETS THE SFWMD ERP VOLUME II, SECTION 3.5(C) CRITERIA.

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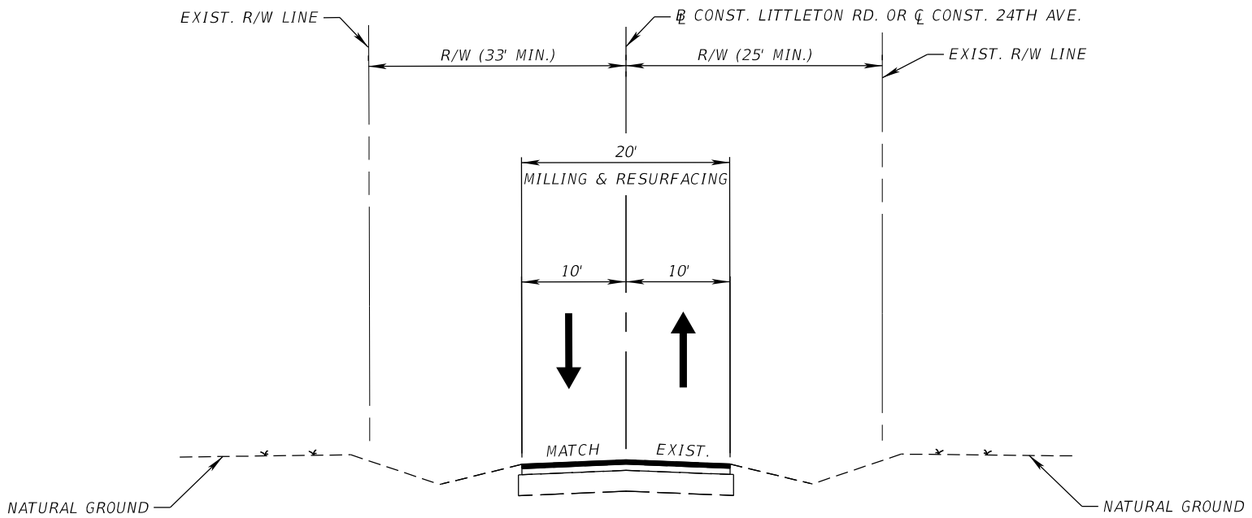
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TYPICAL SECTIONS

SHEET NO. 6



TYPICAL SECTION 3

EXIST. LITTLETON ROAD
STA. 201+40.00 TO STA. 212+97.08

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1.0" AVG. DEPTH)

RESURFACING

FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

NE 24TH AVENUE
STA. 100+80.00 TO STA. 104+50.00

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1.0" AVG. DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

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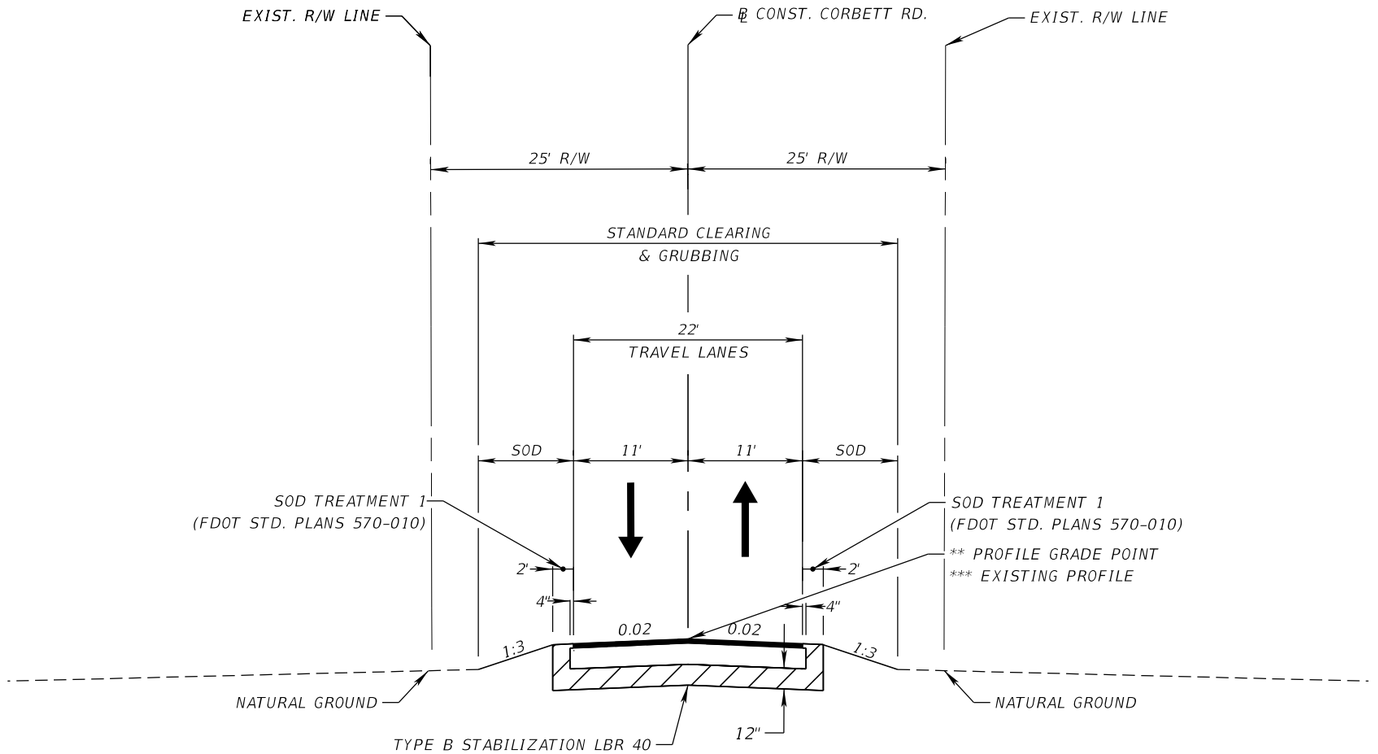
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TYPICAL SECTIONS

SHEET NO. 7



TYPICAL SECTION 4
CORBETT ROAD
STA. 297+16.57 TO STA. 300+65.24 ***
RECONSTRUCTION

OPTIONAL BASE GROUP 6*
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

STA. 300+65.24 TO STA. 304+80.00 **
NEW CONSTRUCTION

OPTIONAL BASE GROUP 6*
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

TRAFFIC DATA

EXISTING YEAR = 2018 AADT = 1,500
ESTIMATED OPENING YEAR = 2020 AADT = 2,100
ESTIMATED DESIGN YEAR = 2040 AADT = 8,000
K = 10.5% D = 61.5% T = 3.3% (24 HOUR)
DESIGN HOUR T = 1.65%
DESIGN SPEED = 40 MPH

* OPTIONAL BASE GROUP EXCLUDES:
- CEMENTED COQUINA
- SHELL BASE / BANK RUN SHELL
- SHELL ROCK

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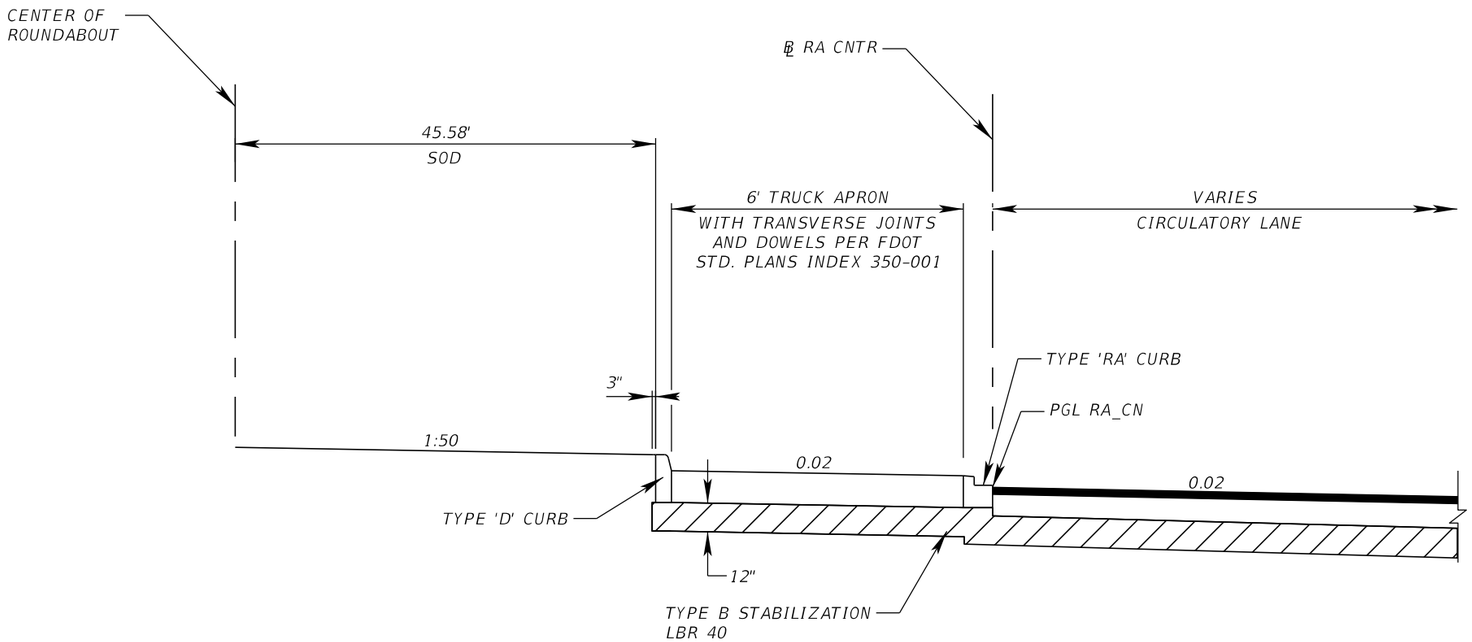
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TYPICAL SECTIONS

SHEET NO. 8



TYPICAL SECTION DETAIL
ROUNDABOUT

TRUCK APRON
PLAIN CEMENT CONCRETE PAVEMENT (12") (RED)

TRAFFIC DATA
DESIGN SPEED = 30 MPH

NEW CONSTRUCTION CIRCULATORY LANES
OPTIONAL BASE GROUP 6*
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG76-22)
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG76-22)

* OPTIONAL BASE GROUP EXCLUDES:
- CEMENTED COQUINA
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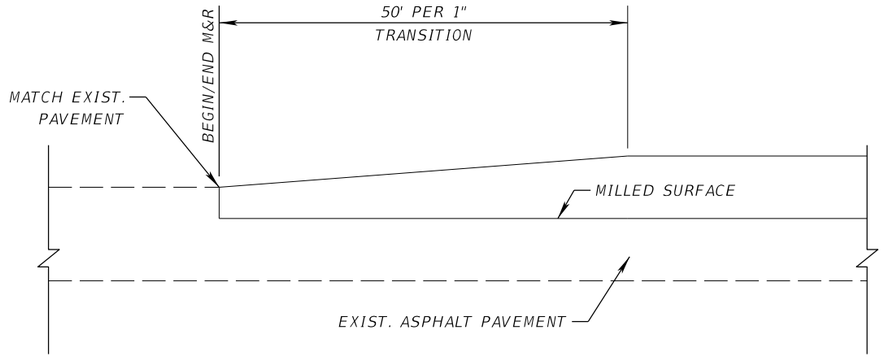
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TYPICAL SECTIONS

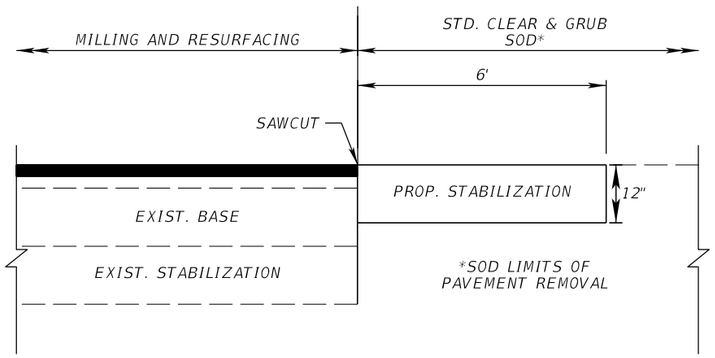
SHEET NO. 9



FEATHERING DETAIL

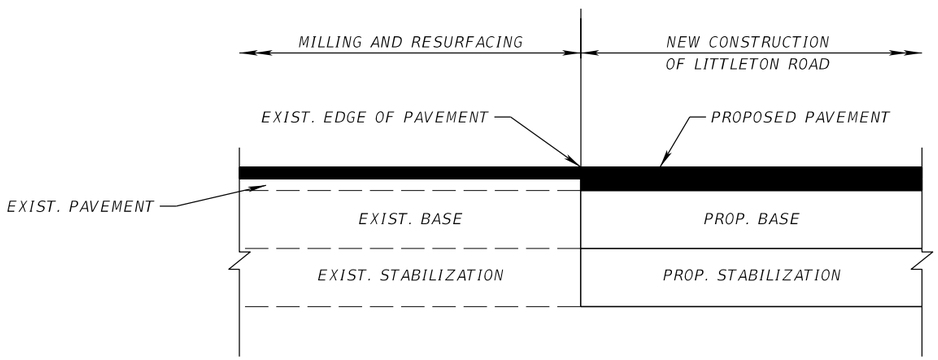
TO BE APPLIED AT BEGIN AND END MILLING & RESURFACING LIMITS

N.T.S



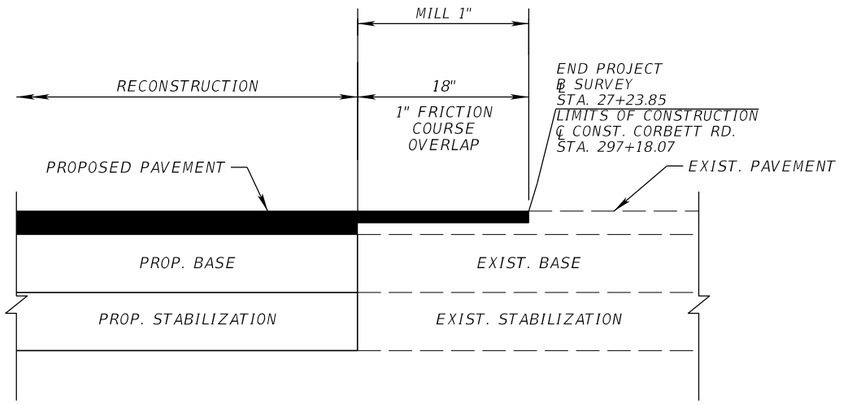
PAVEMENT REMOVAL DETAIL

N.T.S



ROAD CONNECTION DETAIL
N.E 24TH AVE.

N.T.S



ROAD CONNECTION DETAIL
END OF PROJECT

N.T.S

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TYPICAL SECTION DETAILS

SHEET NO. 10

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN (RCP ONLY)			CURB INLETS				MANHOLES		DITCH BOTTOM INLETS		CROSS DRAIN MITERED END SECTION			SODDING	REMARKS
						ROUND			P-5	J-5	P-6	J-6	P-8	J-8	C (MOD.)	D	ROUND (1:4)		ROUND (1:2)		
						18"	24"	30"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	18"	30"	24"	SY	
P F	S-1	10+75.00	LT.	Inlet, Pipe	1	80			1												
P F	S-2	10+90.00	RT.	Inlet, Pipe	1	230			1												
P F	S-3	13+20.00	LT.	MES	1												1			25	
P F	S-4	13+20.00	LT.	Inlet, Pipe	1	25			1												
P F	S-5	13+20.00	RT.	Inlet, Pipe	1	78			1												
P F	S-6	17+00.00	LT.	Inlet, Pipe	1	78					1										
P F	S-7	17+00.00	RT.	Inlet, Pipe	1		149				1										
P F	S-8	18+55.00	RT.	Inlet, Pipe	1		305		1												
P F	S-9	18+60.00	LT.	Inlet, Pipe	1	78			1												
P F	S-10	503+10.00	LT.	Inlet, Pipe	1	70			1												BL RA WB1
P F	S-11	403+10.00	RT.	Inlet, Pipe	1		55		1												BL RA EB1
P F	S-12	503+85.00	LT.	Inlet, Pipe	1	66					1										BL RA WB1
P F	S-13	403+70.00	RT.	Inlet, Pipe	1			141			1										BL RA EB1
P F	S-13A	450+00.00	RT.	Manhole, Pipe	1			135						1							BL RA EB2
P F	S-14	551+30.00	LT.	Inlet, Pipe	1	56					1										BL RA WB2
P F	S-15	451+50.00	RT.	Inlet, Pipe	1			41				1									BL RA EB2
P F	S-16	303+50.00	LT.	Inlet, Pipe	1	105			1												BL CORBETT RD.
P F	S-17	303+50.00	RT.	Inlet, Pipe	1	35			1												BL CORBETT RD.
P F	S-18	304+60.00	LT.	Inlet, Pipe	1			83		1											BL CORBETT RD.
P F	S-19	601+60.00	RT.	Inlet, Pipe	1			57		1											BL NB CORBETT
P F	S-20	451+50.00	RT.	MES	1													1		31	BL RA EB2
P F	S-50A	301+20.00	LT.	Manhole, Pipe	1		134						1								BL CORBETT RD.
P F	S-51A	302+50.00	RT.	Inlet, Pipe	1		96									1				6	BL CORBETT RD.
P F	S-51	303+40.00	LT.	Inlet, Pipe	1	70										1				6	BL CORBETT RD.
P F	S-52	303+40.00	RT.	Inlet, Pipe	1		80									1				6	BL CORBETT RD.
P F	S-100	17+52.00	LT.	MES, Pipe	1	80											1			25	
P F	S-101	18+36.50	LT.	MES	1												1			25	
P F	S-102	22+25.00	LT.	Inlet, Pipe	1	196									1						
P F	S-102A	24+70.00	LT.	Manhole, Pipe	1	81							1								
P F	S-200	303+55.00	RT.	Inlet, Pipe	1	25									1						BL CORBETT RD.
P F	S-201	303+38.00	RT.	Manhole, Pipe	1		214							1							BL CORBETT RD.
P F	S-202	302+65.00	RT.	MES	1														1	24	BL CORBETT RD.
SUBTOTAL - PLAN						1353	1033	457	10	2	5	1	2	2	2	3	3	1	1	148	
SUBTOTAL - FINAL																					
TOTAL - PLAN						1353	1033	457	10	2	5	1	2	2	2	3	3	1	1	148	
TOTAL - FINAL																					

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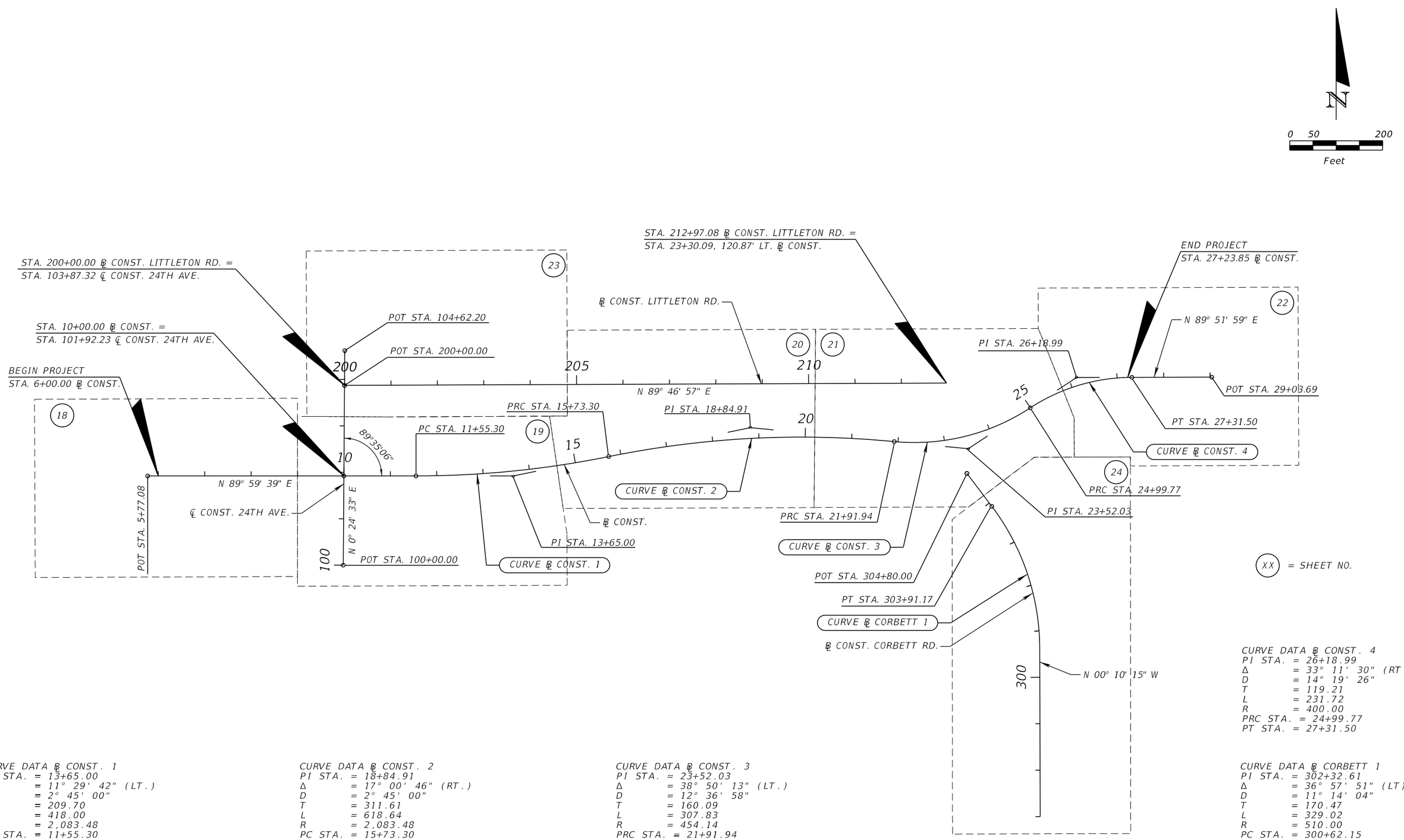
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APPROVED BY:
ANDREW GREGG, P.E.
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FLORIDA CERTIFICATE NO. 72443

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
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SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 11



CURVE DATA ℄ CONST. 1
PI STA. = 13+65.00
Δ = 11° 29' 42" (LT.)
D = 2° 45' 00"
T = 209.70
L = 418.00
R = 2,083.48
PC STA. = 11+55.30
PT STA. = 15+73.30

CURVE DATA ℄ CONST. 2
PI STA. = 18+84.91
Δ = 17° 00' 46" (RT.)
D = 2° 45' 00"
T = 311.61
L = 618.64
R = 2,083.48
PC STA. = 15+73.30
PRC STA. = 21+91.94

CURVE DATA ℄ CONST. 3
PI STA. = 23+52.03
Δ = 38° 50' 13" (LT.)
D = 12° 36' 58"
T = 160.09
L = 307.83
R = 454.14
PRC STA. = 21+91.94
PRC STA. = 24+99.77

CURVE DATA ℄ CONST. 4
PI STA. = 26+18.99
Δ = 33° 11' 30" (RT.)
D = 14° 19' 26"
T = 119.21
L = 231.72
R = 400.00
PRC STA. = 24+99.77
PT STA. = 27+31.50

CURVE DATA ℄ CORBETT 1
PI STA. = 302+32.61
Δ = 36° 57' 51" (LT)
D = 11° 14' 04"
T = 170.47
L = 329.02
R = 510.00
PC STA. = 300+62.15
PT STA. = 303+91.17

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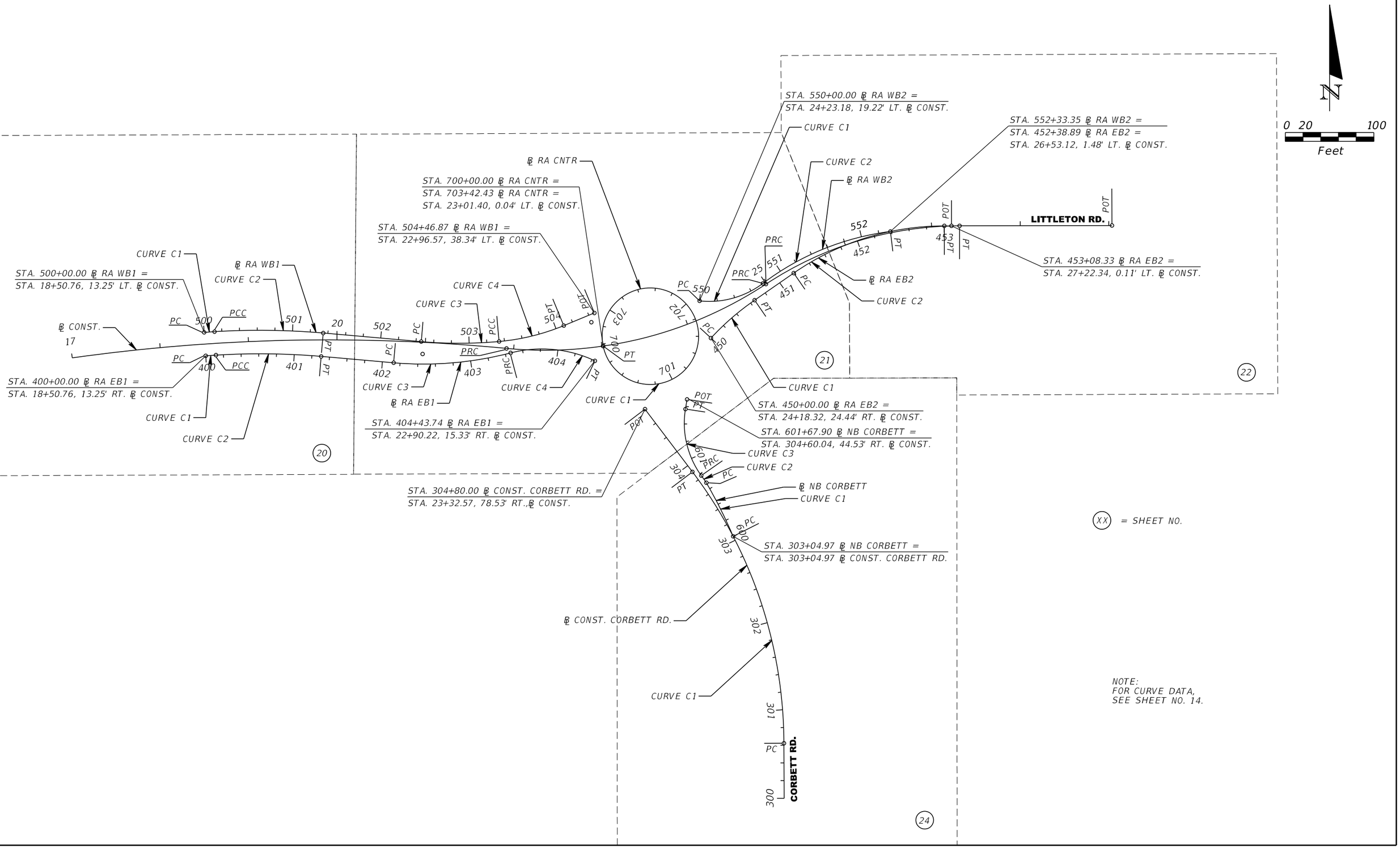
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PROJECT LAYOUT

SHEET NO. 12

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PROJECT LAYOUT

SHEET NO. 13

ROUNDABOUT CURVE DATA

BASELINE	CURVE NO.	CONTROL POINT	STATION	COORDINATES		Δ	D	T	L	R	PI BEARING	
				NORTHING	EASTING						BACK	AHEAD
℄ CONST. CORBETT RD.	C-1	PC	300+62.15	858399.64	682161.40							
		PI	302+32.61	858570.11	682160.89	36°57'51" (LT.)	11°14'04"	170.47	329.02	510.00	N 0°10'15" W	N 37°08'05" W
		PT	303+91.17	858706.01	682057.98							
		CC		858398.12	681651.40							
℄ NB CORBETT	C-1	PC	600+00.00	858633.22	682103.98							
		PI	600+33.89	858664.41	682090.72	7°03'06" (RT.)	10°25'03"	33.89	67.69	550.00	N 23°02'28" W	N 30°05'34" W
		PT	600+67.69	858693.73	682073.73							
		CC		858417.96	681597.86							
	C-2	PC	600+67.69	858693.73	682073.73							
		PI	600+72.63	858697.78	682070.89	1°05'52" (LT.)	11°06'53"	4.94	9.88	515.50	N 34°59'24" W	N 36°05'16" W
		PRC	600+77.57	858701.77	682067.98							
		CC		858398.12	681651.40							
	C-3	PRC	600+77.57	858701.77	682067.98							
		PI	601+19.41	858735.58	682043.34	45°24'46" (RT.)	57°17'45"	41.84	79.26	100.00	N 36°05'16" W	N 9°19'30" E
		PT	601+56.83	858776.87	682050.12							
		CC		858760.67	682148.80							
℄ RA EB1	C-1	PC	400+00.00	858837.02	681508.02							
		PI	400+05.79	858837.41	681513.80	0°19'14" (RT.)	2°46'03"	5.79	11.58	2070.23	N 86°07'46" E	N 86°26'59" E
		PCC	400+11.58	858837.77	681519.58							
		CC		856771.51	681647.77							
	C2	PCC	400+11.58	858837.77	681519.58							
		PI	400+71.21	858841.46	681579.09	8°31'31" (RT.)	7°09'43"	59.63	119.04	800.00	N 86°26'59" E	S 85°01'29" E
		PT	401+30.62	858836.29	681638.49							
		CC		858039.30	681569.11							
	C3	PC	402+12.80	858829.16	681720.37							
		PI	402+80.09	858823.32	681787.40	19°34'45" (LT.)	14°41'28"	67.29	133.27	390.00	S 85°01'29" E	N 75°23'45" E
		PRC	403+46.07	858840.29	681852.52							
		CC		859217.69	681754.19							
	C4	PRC	403+46.07	858840.29	681852.52							
		PI	403+96.99	858853.13	681901.80	39°58'26" (RT.)	40°55'32"	50.92	97.67	140.00	N 75°23'45" E	S 64°37'49" E
		PT	404+43.74	858831.31	681947.81							
		CC		858704.81	681887.82							
℄ RA EB2	C-1	PC	450+00.00	858857.02	682078.88							
		PI	450+32.83	858881.10	682101.20	12°29'25" (RT.)	19°05'55"	32.83	65.40	300.00	N 42°49'35" E	N 55°19'00" E
		PT	450+65.40	858899.78	682128.20							
		CC		858653.09	682298.91							
	C-2	PC	451+19.16	858930.37	682172.41							
		PI	452+12.57	858983.52	682249.22	34°35'18" (RT.)	19°05'55"	93.41	181.10	300.00	N 55°19'00" E	N 89°54'18" E
		PT	453+00.27	858983.68	682342.62							
		CC		858683.68	682343.12							
℄ RA WB1	C-1	PC	500+00.00	858863.46	681506.23							
		PI	500+05.86	858863.85	681512.08	0°19'13" (RT.)	2°43'57"	5.86	11.73	2096.73	N 86°07'46" E	N 86°26'59" E
		PCC	500+11.73	858864.22	681517.94							
		CC		856771.51	681647.77							
	C-2	PCC	500+11.73	858864.22	681517.94							
		PI	500+73.33	858868.03	681579.42	8°31'31" (RT.)	6°55'56"	61.60	122.98	826.50	N 86°26'59" E	S 85°01'29" E
		PT	501+34.70	858862.69	681640.79							
		CC		858039.30	681569.11							
	C-3	PC	502+45.85	858853.05	681751.52							
		PI	502+90.03	858849.22	681795.53	10°05'51" (LT.)	11°27'33"	44.17	88.12	500.00	S 85°01'29" E	N 84°52'40" E
		PCC	503+33.97	858853.16	681839.53							
		CC		859351.16	681794.88							
	C-4	PCC	503+33.97	858853.16	681839.53							
		PI	503+72.02	858856.56	681877.43	17°18'33" (LT.)	22°55'06"	38.05	75.53	250.00	N 84°52'40" E	N 67°34'07" E
		PT	504+09.50	858871.08	681912.60							
		CC	0.00	859102.16	681817.21							

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AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET
(239) 479-8900
FORT MYERS, FLORIDA 33901

PROJECT LAYOUT
CURVE DATA

SHEET NO.
14

ROUNDABOUT CURVE DATA

BASELINE	CURVE NO.	CONTROL POINT	STATION	COORDINATES		Δ	D	T	L	R	PI BEARING	
				NORTHING	EASTING						BACK	AHEAD
℄ RA WB2	C-1	PC	550+00.00	858899.05	682066.06							
		PI	550+39.94	858894.60	682105.76	43°32'40" (LT.)	57°17'45"	39.94	76.00	100.00	S 83°36'39" E	N 52°50'41" E
		PRC	550+76.00	858918.72	682137.59							
		CC		858998.42	682077.19							
	C-2	PRC	550+76.00	858918.72	682137.59							
		PI	551+56.53	858967.36	682201.77	30°03'08" (RT.)	19°05'55"	80.53	157.35	300.00	N 52°50'41" E	N 82°53'49" E
		PT	552+33.35	858977.32	682281.69							
		CC		858679.62	682318.78							
℄ RA CNTR	C-1	PC	700+00.00	858848.01	681957.06							
		PI	700+00.00	858848.01	681957.06	360°00'00" (LT.)	105°07'48"	0.00	342.43	54.50	S 11°44'19" E	S 11°44'19" E
		PT	703+42.43	858848.01	681957.06							
		CC		858859.10	682010.42							

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FORT MYERS, FLORIDA 33901

PROJECT LAYOUT
CURVE DATA

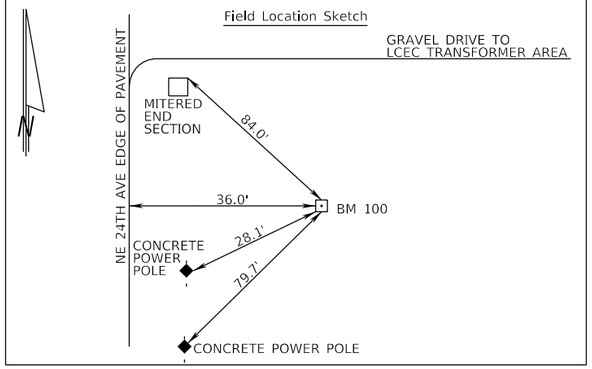
SHEET NO.
15

Vertical Control Data Sheet
DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 100 Elevation feet: 12.934'
State Road No.: N/A County: LEE
Section: 28 Township: 43 S Range: 24 E Roadway Section I.D.: N/A
Establishing Firm: AIM ENGINEERING & SURVEYING Field Book No.: 1524
Established: 08/28/2018 Recovered: ___ Financial Project ID: N/A
State Plane Coordinates:
(Nearest Foot) N (Y): = 859,139 E (X): = 680,710
Base Line Station and Offset: N/A
Description of Monument: SET 4" X 4" CONCRETE MONUMENT WITH 2" AIM ENG. & SURV. INC. LB 3114 ALUMINUM DISK STAMPED "BM 100".

Distance and Direction from Nearest Intersection: 42 FEET NORTH ALONG NE 24TH AVENUE FROM THE INTERSECTION OF NE 24TH AVENUE AND NE 24TH TERRACE.

Field Location Sketch

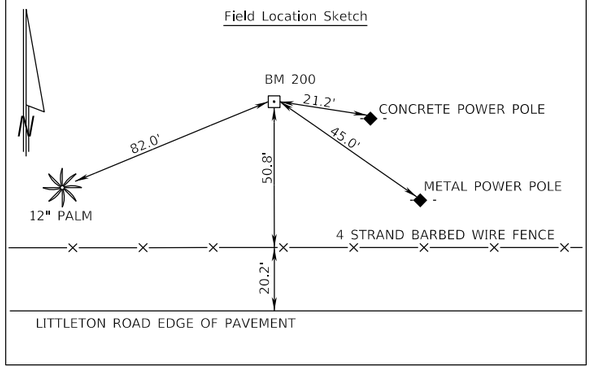


Vertical Control Data Sheet
DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 200 Elevation feet: 11.662'
State Road No.: N/A County: LEE
Section: 28 Township: 43 S Range: 24 E Roadway Section I.D.: N/A
Establishing Firm: AIM ENGINEERING & SURVEYING Field Book No.: 1524
Established: 08/28/2018 Recovered: ___ Financial Project ID: N/A
State Plane Coordinates:
(Nearest Foot) N (Y): = 859,051 E (X): = 681,784
Base Line Station and Offset: N/A
Description of Monument: SET 4" X 4" CONCRETE MONUMENT WITH 2" AIM ENG. & SURV. INC. LB 3114 ALUMINUM DISK STAMPED "BM 200".

Distance and Direction from Nearest Intersection: 0.2 MILES EAST ALONG LITTLETON ROAD FROM THE INTERSECTION OF LITTLETON ROAD AND NE 24TH AVENUE.

Field Location Sketch

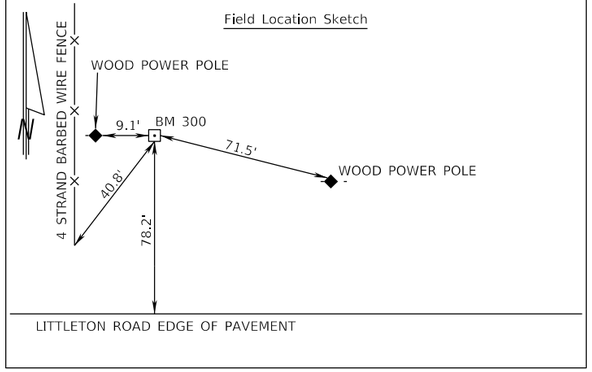


Vertical Control Data Sheet
DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 300 Elevation feet: 12.993'
State Road No.: N/A County: LEE
Section: 28 Township: 43 S Range: 24 E Roadway Section I.D.: N/A
Establishing Firm: AIM ENGINEERING & SURVEYING Field Book No.: 1524
Established: 08/28/2018 Recovered: ___ Financial Project ID: N/A
State Plane Coordinates:
(Nearest Foot) N (Y): = 859,076 E (X): = 683,027
Base Line Station and Offset: N/A
Description of Monument: SET 4" X 4" CONCRETE MONUMENT WITH 2" AIM ENG. & SURV. INC. LB 3114 ALUMINUM DISK STAMPED "BM 300".

Distance and Direction from Nearest Intersection: 0.2 MILES EAST ALONG LITTLETON ROAD FROM THE INTERSECTION OF LITTLETON ROAD AND CORBETT ROAD.

Field Location Sketch



VERTICAL CONTROL

CONTROL POINT	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A-1	858770.82	680068.91	14.73'	SIRC 5/8" CONTROL LB3114
A-2	858815.56	680227.22	12.99'	SIRC 5/8" CONTROL LB3114
A-3	858831.17	680588.25	13.28'	SIRC 5/8" CONTROL LB3114
A-4	858538.51	680632.76	12.46'	SIRC 5/8" CONTROL LB3114
A-5	859073.39	680628.46	11.98'	SIRC 5/8" CONTROL LB3114
A-6	858990.26	680922.20	12.91'	SIRC 5/8" CONTROL LB3114
A-7	858987.39	681255.29	12.14'	SIRC 5/8" CONTROL LB3114
A-8	858747.55	681261.60	12.89'	SIRC 5/8" CONTROL LB3114
A-9	858742.34	681596.60	13.19'	SIRC 5/8" CONTROL LB3114
A-10	858939.96	681663.53	12.97'	SIRC 5/8" CONTROL LB3114
A-11	858939.75	681915.78	12.83'	SIRC 5/8" CONTROL LB3114
A-12	858746.56	681922.93	13.06'	SIRC 5/8" CONTROL LB3114
A-13	858572.24	682172.39	12.32'	SIRC 5/8" CONTROL LB3114
A-14	858368.02	682147.10	12.17'	SIRC 5/8" CONTROL LB3114
A-15	858776.39	682121.45	12.37'	SIRC 5/8" CONTROL LB3114
A-16	858921.03	682196.69	11.29'	SIRC 5/8" CONTROL LB3114
A-17	859000.95	682311.63	12.81'	SIRC 5/8" CONTROL LB3114
A-18	859000.83	682468.78	13.29'	SMND AIM ENG LB 3114
A-19	859003.55	682807.27	13.02'	SIRC 5/8" CONTROL LB3114

PROJECT CONTROL NOTES

1. PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, OF THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD 83/2011).
2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
3. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND CONSTRUCTION ON SUBJECT PROJECT. THE PREFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

BEN R. HOMOLA, P.S.M.
P.S.M. NO.: LS3950
AIM ENGINEERING AND SURVEYING, INC.
2161 FOWLER ST., FORT MYERS, FL. 33901
CERTIFICATE OF AUTHORIZATION: NO. 3114

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TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET
(239) 479-8900
FORT MYERS, FLORIDA 33901

PROJECT CONTROL

SHEET NO. 16

GENERAL NOTES

1. ALL EXISTING DRAINAGES STRUCTURES ARE TO REMAIN UNLESS NOTED ON THE ROADWAY PLANS.

2. ABBREVIATIONS:
OSW = OTHER SURFACE WATERS

3. MARK THE PROPERTY LINE LOCATION AND NOTIFY BUSINESS/ HOME OWNERS TO REMOVE ANY EXISTING LANDSCAPING (I.E. SOD, BUSHES, TREES, ETC.) AND/OR SPRINKLER PIPE OR SPRINKLER HEADS AND FENCING THAT IS LOCATED WITHIN THE EXISTING PUBLIC RIGHT-OF-WAY OR EASEMENTS AT LEAST ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

4. NOTIFY RESIDENCES AND BUSINESSES AT LEAST 48 HOURS IN ADVANCE OF ANY DISRUPTION IN SERVICE, INCLUDING DRIVEWAY CUTS.

5. PROVIDE 48 HOURS WRITTEN NOTICE TO THE ENGINEER AND COUNTY PRIOR TO THE FOLLOWING ACTIVITIES:
   A. COMMENCEMENT OF CONSTRUCTION
   B. CHANGES TO APPROVED SCHEDULES
   C. CONNECTION TO EXISTING UTILITY SYSTEMS
   D. WATER MAIN PRESSURE TESTING
   E. TRENCH AND BACKFILL COMPACTION AND DENSITY TESTING
   F. FINAL INSPECTIONS

6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY THE CONTRACTOR. ALL CORNER MONUMENTS SHALL BE PROPERLY REFERENCED. IF A CORNER MOMUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. ANY PUBLIC LAND CORNER THAT HAS BEEN DESTROYED SHALL BE REPLACED BY A REGISTERED SURVEYOR & MAPPER AT THE CONTRACTOR'S EXPENSE.

7. ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE IN THE SUMMARY OF ROADWAY PAY ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.

8. APPLY FOR A DE-WATERING PERMIT WITH S.F.W.M.D., SHOULD DE-WATERING BE REQUIRED TO CONSTRUCT THE FACILITIES.

9. EXCESS EARTHWORK MATERIAL TO BE REMOVED FROM THE PROJECT SITE SHALL BE COORDINATED WITH LEE COUNTY DEPT. OF TRANSPORTATION OPERATIONS AT (239)533-9400.

RIGHT OF WAY NOTES

1. RIGHT-OF-WAY ACQUISITION AT 9981 LITTLETON ROAD ON THE SOUTHEAST CORNER OF THE INTERSECTION OF NE 24TH AVENUE AND LITTLETON ROAD IS IN PROGRESS AT DATE PLANS DIGITALLY SIGNED AND SEALED. CROSS HATCHED AREA ON ROADWAY PLAN (SHEET NO. 19) MAY NOT BE AVAILABLE AT PROJECT START. NO WORK OR STAGING UNTIL NOTIFIED.

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET
(239) 479-8900
FORT MYERS, FLORIDA 33901

GENERAL NOTES

SHEET NO. 17

N

0 10 40

Feet

SEE SPECIAL UTILITY CROSS SECTIONS AND UTILITY ADJUSTMENTS SHEETS

BEGIN MILLING & RESURFACING
+00.00, 35.57' LT.

EXIST. R/W LINE

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 6+00.00

KISMET PKWY. E.

POT

6

+70.00
1.00' RT.

7

8

℄ CONST.

9

N 89° 59' 39" E

BEGIN WIDENING
+20.00, 17.78' RT.

20'

50'

21'

50'

CONST. 8" WM

CONST. 14" CASING

EXIST. R/W LINE

+48.13
50.17' RT.

25' R

+23.13
75.20' RT.

EXIST. R/W LINE

BEGIN MILLING & RESURFACING
+00.00, 36.94' RT.

+48.13
50.19' RT.

25' R

+73.13
75.16' RT.

+87.83
68.52' RT.

NE 23RD PLACE

+08.42
68.52' RT.

LEGEND

- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

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FLORIDA
1500 MONROE STREET
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DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY PLAN

SHEET NO.
18

MATCHLINE STA. 103+20.00
℄ CONST. 24TH AVE
SEE SHEET 23

NOTE: EXIST. R/W LIMITS BEYOND VIEW
(REFER TO SHEET NO. 23)

N

0 10 40
Feet

KISMET PKWY. E.

LITTLETON RD.

NE 24TH AVE.

LCEC PROPERTY

POND 1A

℄ CONST. 24TH AVE

℄ CONST.

EXIST. R/W LINE

BEGIN PIPE HANDRAIL
ON CONC. SWK. PER INDEX 515-080
10+45.00, 51.50' LT.

END PIPE HANDRAIL
ON CONC. SWK. PER INDEX 515-080
10+65.00, 47.33' LT.

CONST. ALUMINUM PIPE HANDRAIL

6' CONC. SWK.

TYPE F C&G

TYPE E C&G

8' CONC. SWK.

CONST. 25 LF
OF 18" RCP

CONST. 78 LF
OF 18" RCP

CONST. 80 LF
OF 18" RCP

CONST. 230 LF
OF 18" RCP

CONST. CASING

RIGHT-OF-WAY ACQUISITION IN PROGRESS AT DATE PLANS DIGITALLY SIGNED AND SEALED. CROSS HATCHED AREA MAY NOT BE AVAILABLE AT PROJECT START. NO WORK OR STAGING UNTIL NOTIFIED.

STA. 101+92.23
℄ CONST. 24TH AVE.
STA. 10+00.00
℄ CONST.

BEGIN MILLING AND RESURFACING
STA. 100+80.00

STA. 100+80.01
11.84' LT.

STA. 100+80.01
8.70' RT.

N 24° 33" E

N 0° 24" 33" E

N 89° 59' 39" E

PC

PI

POT

S-1 +75.84 39.25' LT.
S-2 +95.25 39.25' RT.
S-3
S-4
S-5

+73.15 74.89' LT.
25' R
+72.09 60.31' LT.
+72.05 54.31' LT.
+48.15 49.86' LT.
+25.48 14.30' LT.
+52.44 10.37' LT.
+25.51 1.00' RT.
+52.45 2.97' LT.
+48.74 50.14' RT.
+77.31 59.03' RT.
+77.26 65.03' RT.
+73.75 75.11' RT.
+29.33 67.74' LT.
+19.88 70.24' LT.
+39.38 55.47' LT.
+27.61 72.33' LT.
+63.58 58.00' LT.
+49.45 42.25' LT.
+63.59 47.95' LT.
+53.59 49.54' LT.
+54.19 0.55' RT.
+75.00 2.25' LT.
+54.12 10.15' RT.
+75.00 13.25' RT.
+38.82 47.37' RT.
+32.00 61.84' RT.
+22.34 74.39' RT
+20.94 78.76' RT.
+11.18 76.58' RT.
+07.98 103.22' RT.
+23.77 92.25' RT
+55.30 92.25' RT.
+56.31 55.62' LT

2176' R

CURVE DATA ℄ CONST. 1
PI STA. = 13+65.00
Δ = 11° 29' 42" (LT.)
D = 2° 45' 00"
T = 209.70
L = 418.00
R = 2,083.48
PC STA. = 11+55.30
PRC STA. = 15+73.30
e = NC

LEGEND
- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

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SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900

DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY PLAN

SHEET NO. 19

LEGEND

- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

(S-100)
STA. 17+52.00 (84.50' LT)
18" CROSS DRAIN MES (1:4)
INDEX 430-021
FL. 9.20'

(S-101)
STA. 18+36.50 (81.50' LT)
18" CROSS DRAIN MES (1:4)
INDEX 430-021
FL. 9.20'

*SEE PROJECT LAYOUT SHEET FOR CURVE DATA

N

0 10 40
Feet

MATCHLINE STA. 204+80.00
℄ CONST. LITTLETON RD.
SEE SHEET 23

MATCHLINE STA. 210+14.00
℄ CONST. LITTLETON RD.
SEE SHEET 21

205+35.38 34.26' LT.
205+35.39 29.87' LT.
205+50.49 34.27' LT.
205+50.66 29.02' LT.
205+15.41 9.85' LT.
205+70.64 9.65' LT
209+66.95 33.62' LT.
209+66.69 31.47' LT.
209+79.41 33.60' LT.
209+41.39 9.49' LT.
210+04.50 9.36' LT.
20' R
25' R

EXIST. R/W LINE
EXIST. 6' EASEMENT
OE (138kV)
BT(B)
BFOC(B)

205 206 207 208 209 210

℄ CONST. LITTLETON RD.
EXIST. LITTLETON RD.
N 89° 46' 57" E
208+28.40 11.27' RT.

207+23.51 11.04' RT.
207+67.83 56.57' RT.
207+97.32 37.76' RT.
207+74.41 51.41' RT.
45' R
25' R
FLARED END
S-100
S-101
TYPE F C&G
POND 1A
POND 1B
CONST. 80 LF OF 18" RCP
+73.44 47.54' LT.
+57.34 47.25' LT.
+33.19 47.47' LT.
+50.71 47.25' LT.
CR-G
6' CONC. SWK.
+86.86 33.61' LT.
35' R
+50.76 13.25' LT.
+54.79 39.25' LT.
S-9
PI
852.5' R
TYPE F C&G
℄ RA WB1*
501
500
26'
50' R
+54.61 39.25' LT.
+68.92 9.15' LT.
+48.95 13.25' LT.
+65.00 13.25' LT.
+15.00 2.25' LT.
S-6
19
20
18
17
16
15
10' R
PC
PCC
PRC
CURVE ℄ CONST. 2
+31.15 9.30' LT.
+30.96 9.08' RT.
+50.82 13.25' RT.
400
401
CONST. 78 LF OF 18" RCP
TYPE E C&G
℄ RA EB1*
774' R
+79.73 44.57' RT.
S-8
TYPE F C&G
CURVE ℄ CONST. 1
37'
155'
26'
92'
+49.45 13.25' RT.
+68.97 9.23' RT.
+48.70 39.25' RT.
CONST. 149 LF OF 24" RCP
+51.30 39.25' RT.
LITTLEWOOD RD.
CONST. 78 LF OF 18" RCP
S-7
TYPE E C&G
+43.24 49.25' RT.
CONST. 305 LF OF 24" RCP
8' CONC. SWK.
+56.76 49.25' RT.
+71.35 49.63' RT.
+28.65 49.63' RT.
+50.00, 64.15' RT EL. 12.00'
+00.00, 64.95' RT. EL. 11.95'
+00.00, 72.39' RT. EL. 11.85'
PROPOSED DITCH LINE
+85.00 74.55' RT.
+15.00 74.55' RT.
+15.00 85.00' RT.
+85.00 85.00' RT.
15+73.30 92.25' RT.
1991' R
2176' R
EXIST. R/W LINE

CURVE DATA ℄ CONST. 1
PI STA. = 13+65.00
Δ = 11° 29' 42" (LT.)
D = 2° 45' 00"
T = 209.70
L = 418.00
R = 2,083.48
PC STA. = 11+55.30
PRC STA. = 15+73.30
e = NC

CURVE DATA ℄ CONST. 2
PI STA. = 18+84.91
Δ = 17° 00' 46" (RT.)
D = 2° 45' 00"
T = 311.61
L = 618.64
R = 2,083.48
PC STA. = 15+73.30
PRC STA. = 21+91.94
e = NC

NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY PLAN

SHEET NO. 20

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

LEGEND

- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

*SEE PROJECT LAYOUT SHEET FOR CURVE DATA

S-102A
STA. 24+70.00 (77.00' LT)
MANHOLE TYPE P-8 (W/2' SUMP)
INDEX 425-001
RIM ELEV. 12.00'
FL. 7.20' AH
FL. 7.20' BK

S-103
STA. 25+50.00 (53.00' LT)
18" SIDE DRAIN MES (1:4)
INDEX 430-022
FL. 7.00'

N

0 10 40
Feet

MATCHLINE STA. 210+14.00
℄ CONST. LITTLETON RD.
SEE SHEET 20

EXIST. R/W LINE
℄ CONST. LITTLETON RD.
N 89° 46' 57" E
EXIST. LITTLETON RD.
EXIST. 6' EASEMENT
EXIST. R/W LINE
℄ CONST. CORBETT RD.*

212+36.59 / 33.22' LT.
212+52.59 / 33.19' LT.
212+75.24 / 10.10' LT.
212+14.82 / 10.19' LT.
24+39.99 / 102.38' LT.
24+86.76 / 110.17' LT.
24+79.80 / 105.55' LT.
24+99.24 / 104.14' LT.
24+89.46 / 93.16' LT.
24+84.27 / 89.04' LT.
24+08.38 / 113.95' LT.
24+30.58 / 89.61' LT.
+29.54 / 118.90' LT.
23+87.01 / 107.11' LT.
+34.98 / 117.03' LT.
+15.20 / 112.21' LT.
+27.26 / 110.53' LT.
+60.65 / 86.65' LT.
+85.92 / 95.08' LT.
+69.93 / 30.43' LT.
+54.78 / 32.87' LT.
+33.81 / 42.22' LT.
+23.99 / 77.20' LT.
+10.14 / 65.54' LT.
+24.63 / 54.26' LT.
+31.20 / 31.83' RT.
+76.19 / 44.37' LT.
+60.21 / 89.13' LT
+37.70 / 35.39' LT.
+64.85 / 42.47' LT.
+84.98 / 87.65' LT.
+96.23 / 26.63' LT.
+59.45 / 29.60' LT.
+84.30 / 29.68' LT.
+93.16 / 65.24' LT.
+55.94 / 0.00' RT
+00.65 / 29.63' RT.
+49.93 / 40.20' RT.
+30.38 / 45.15' RT.
+44.98 / 40.83' RT.
+01.52 / 26.28' RT.
+98.19 / 27.46' RT.
+11.48 / 23.50' RT.
+74.71 / 35.69' RT.
+63.61 / 50.51' RT.
+75.73 / 38.65' RT.
+64.78 / 51.69' RT.
+98.65 / 52.78' RT.
+10.45 / 54.5' R 77.08' RT.
+00.00, 75.74' RT. / EL. 11.76'
+00.00, 60.22' RT. / EL. 11.67'
+85.41 / 50.14' RT.
+23.58 / 85.46' RT.
+00.00, 101.94' RT. / EL. 11.49'
+24.07 / 122.08' RT.
22+59.94 / 100.17' RT.

CONST. 66 LF OF 18" RCP
POND 1B
CONST. 24" RCP
8' CONC. SWK.
TYPE E C&G
CONST. 55 LF OF 24" RCP
CONST. 141 LF OF 30" RCP
PROPOSED DITCH LINE
10' CONC. SWK.
CONST. 70 LF OF 18" RCP
CONST. 196 LF OF 18" RCP
CONST. 81 LF OF 18" RCP
CONST. 56 LF OF 18" RCP
CONST. 41 LF OF 30" RCP
CONST. 135 LF OF 30" RCP
CONST. 57 LF OF 30" RCP
CONST. 83 LF OF 30" RCP
CONST. 18" RCP
TYPE D CURB
TYPE RA CURB
6' CONC. SWK.
10' CONC. SWK.
OSW 510C LIMIT
EXIST. PIPE TO BE REMOVED
OSW 510D LIMIT
℄ RA CNTR*
℄ RA WB1*
℄ RA EB1*
℄ RA WB2*
℄ RA EB2*
℄ NB CORBETT*
CURVE ℄ CONST. 2
CURVE ℄ CONST. 3
GOV. QUARTER LINE
MATCHLINE STA. 304+20.00
℄ CONST. CORBETT RD.
SEE SHEET 24

LITTLETON RD.
CORBETT RD.
POND 2

S-10 S-11 S-12 S-13 S-13A S-14 S-15 S-18 S-19

CURVE DATA ℄ CONST. 2
PI STA. = 18+84.91
Δ = 17° 00' 46" (RT.)
D = 2° 45' 00"
T = 311.61
L = 618.64
R = 2,083.48
PC STA. = 15+73.30
PRC STA. = 21+91.94
e = NC

CURVE DATA ℄ CONST. 3
PI STA. = 23+52.03
Δ = 38° 50' 13" (LT.)
D = 12° 36' 58"
T = 160.09
L = 307.83
R = 454.14
PRC STA. = 21+91.94
PRC STA. = 24+99.77
e = NC

CURVE DATA ℄ CONST. 4
PI STA. = 26+18.99
Δ = 33° 11' 30" (RT.)
D = 14° 19' 26"
T = 119.21
L = 231.72
R = 400.00
PRC STA. = 24+99.77
PT STA. = 27+31.50
e = NC

*NOTE: REFER TO INTERSECTION DETAIL SHEETS FOR ROUNDABOUT AND SPLITTER ISLAND CALLOUTS

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AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
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(239) 479-8900
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FORT MYERS, FLORIDA 33901

ROADWAY PLAN

SHEET NO. 21

LEGEND

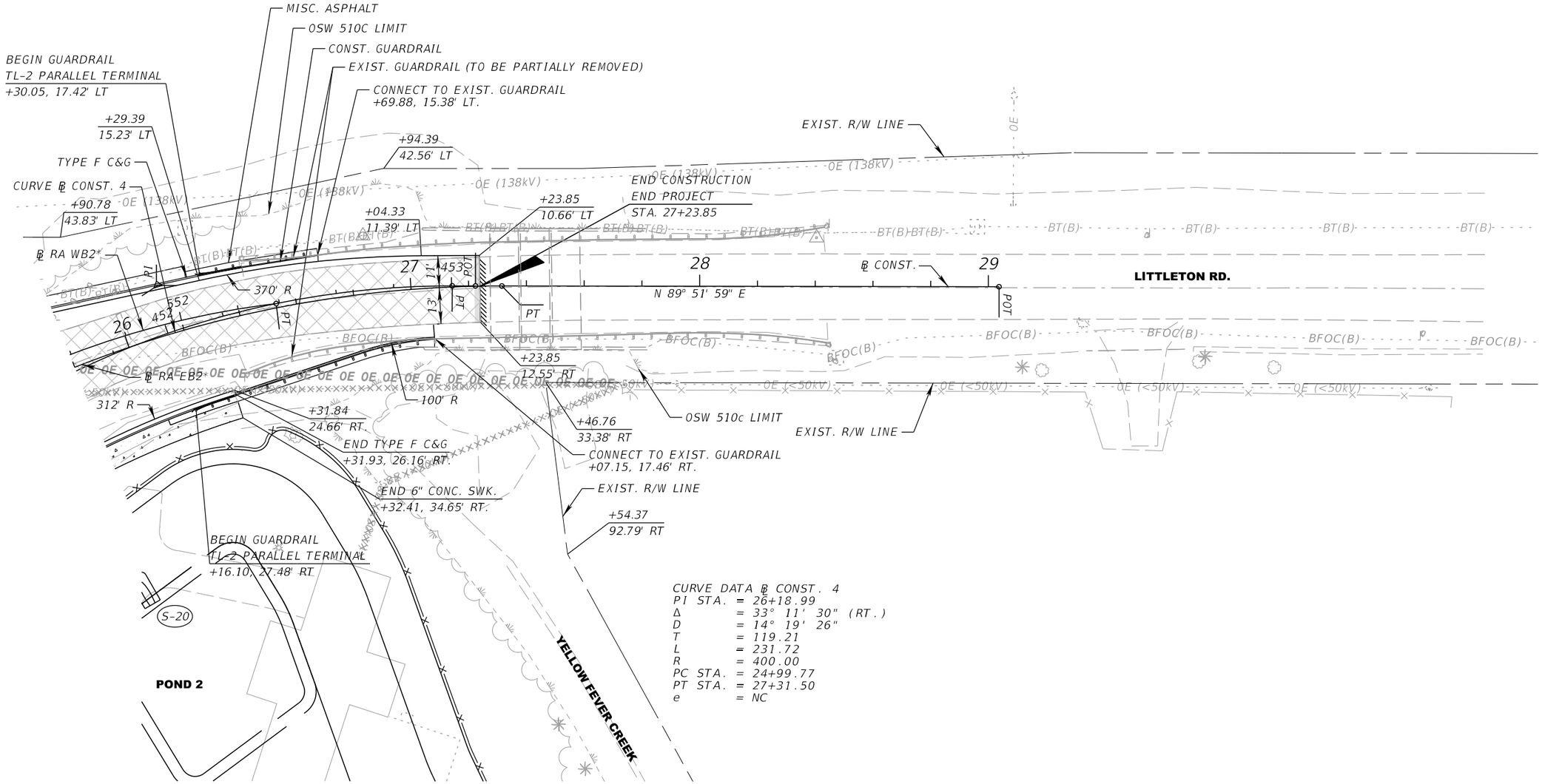
- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

*SEE PROJECT LAYOUT SHEET FOR CURVE DATA

N

0 10 40

Feet



CURVE DATA ℄ CONST. 4
PI STA. = 26+18.99
Δ = 33° 11' 30" (RT.)
D = 14° 19' 26"
T = 119.21
L = 231.72
R = 400.00
PC STA. = 24+99.77
PT STA. = 27+31.50
e = NC

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ROADWAY PLAN

SHEET NO. 22

LEGEND

- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

N

0 10 40

Feet

END MILLING AND RESURFACING
LIMITS OF CONSTRUCTION 24TH AVE.
STA. 104+50.00

104+50.00
10.28' RT.

104+62.20
29.17' LT.

POT

104+50.00
9.77' LT.

℄ CONST. 24TH AVE.

N 0° 24' 33" E

104

200

201

202

203

204

POT

STA. 103+87.32
℄ CONST. 24TH AVE.
STA. 200+00.00
℄ CONST. LITTLETON RD.

NE 24TH AVE.

20'

EXIST. R/W LINE

103+62.59
22.20' RT.

103+28.08
11.63' RT.

MATCHLINE STA. 103+20.00
℄ CONST. 24TH AVE.
SEE SHEET 19

LCEC CORBETT SUBSTATION

EXIST. CONCRETE DRIVEWAY TO REMAIN

200+47.04
34.99' LT.

201+40.00
10.06' LT

201+40.00
10.81' RT

200+51.93
25.02' RT.

EXIST. R/W LINE

LCEC PROPERTY

EXIST. LITTLETON RD.

N 89° 46' 57" E

℄ CONST. LITTLETON RD.

EXIST. R/W LINE

202+51.93
25.31' RT.

POND 1A

MATCHLINE STA. 204+80.00
℄ CONST. LITTLETON RD.
SEE SHEET 20

NOTE: PROP. R/W LIMITS BEYOND VIEW
(REFER TO SHEET NO. 19)

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ROADWAY PLAN

SHEET NO. 23

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CURVE DATA ℄ CORBETT 1
PI STA. = 302+32.61
Δ = 36° 57' 51" (LT)
D = 11° 14' 04"
T = 170.47
L = 329.02
R = 510.00
PC STA. = 300+62.15
PT STA. = 303+91.17
e = NC

LEGEND
- MILLING & RESURFACING
- 6" THICK CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNINGS
- LIMITS OF MILLING AND RESURFACING (SAWCUT & MATCH EXIST.)

*SEE PROJECT LAYOUT SHEET FOR CURVE DATA

N

0 10 40
Feet

TYPE F C&G
N 37° 08' 05" W
304+00, 30.75' LT
EL. 10.56'
303+93.84
62.08' LT.
484' R
303+91.17
11.00' LT.
BEGIN TYPE F C&G
303+38.00, 13.38' LT.
EXIST. R/W LINE
CONST. 105 LF OF 18" RCP
CURVE C-3
℄ NB CORBETT
℄ CONST.
CORBETT RD.
MATCHLINE STA. 304+20.00 ℄ CONST. CORBETT RD. SEE SHEET 21
304
PT
160'
S-51
S-16
303+00, 25.38' LT
EL. 10.54'
CONST. 70 LF OF 18" RCP
304+16.98
58.97' RT.
CONST. 35 LF OF 18" RCP
106' R
301+97.02
63.75' LT.
302+00, 22.09' LT
EL. 10.63'
PROPOSED DITCH LINE
303+56.04
26.25' RT.
301+90, 22.01' LT
EL. 10.64'
499' R
600
303
BEGIN TYPE F C&G
302+80.40, 23.48' RT.
10' CONC. SWK.
CONST. 134 LF OF 24" RCP
301+83.10
13.67' LT.
CONST. 15 LF OF 24" RCP
CURVE ℄ CORBETT 1
302+92.45
13.81' RT.
S-17
TYPE F C&G
CONST. 80 LF OF 24" RCP
304+04.95
69.81' RT.
10' CONC. SWK.
303+11.72
16.32' RT.
S-52
EXIST. R/W LINE
OSW 510D LIMIT
0E (<50kV)
S-50
300+62.15
11.00' LT.
302
15' R
S-51A
303+50.90
74.54' RT.
5' R
302+79.99
37.84' RT.
299
300
301
S-50A
PC
521' R
CORBETT RD.
11'
11'
N 0° 10' 15" W
303+45.92
85.07' RT.
302+81.74
51.44' RT.
303+32.04
98.78' RT.
302+76.97
33.30' RT.
CONST. 96 LF OF 24" RCP
5' R
302+75.72
54.95' RT.
60' R
302+72.65
65.43' RT.
MATCHLINE STA. 299+00.00 ℄ CONST. CORBETT RD. THIS SHEET
EXIST. R/W LINE
300+24.38
11.00' RT.
300+38.65
21.38' RT.
25' R
300+66.20
11.00' RT.
300+52.19
21.19' RT.
301+54.77
11.00' RT.
301+78.03
33.17' RT.
302+13.59
11.00' RT.
25' R
301+90.65
30.77' RT.
301+89.72
35.96' RT.
302+51.05
11.00' RT.
302+65.30
25.02' RT.
302+65.89
37.27' RT.
60' R
302+62.68
60.93' RT.
CONST. 25 LF OF 18" RCP
S-201
S-200
W (8) - 6
EXIST. R/W LINE
POND 2
CONST. 214 LF OF 24" RCP

297+16.57
11.00' LT.
297+18.16
11.00' LT.
LIMITS OF CONSTRUCTION
STA. 297+16.57
EXIST. R/W LINE
POT
297
298
299
11'
11'
N 0° 10' 15" W
SAWCUT
CORBETT RD.
℄ CONST. CORBETT RD.
297+16.57
11.00' RT.
297+17.99
11.00' RT.
EXIST. R/W LINE
MATCHLINE STA. 299+00.00 ℄ CONST. CORBETT RD. THIS SHEET

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3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

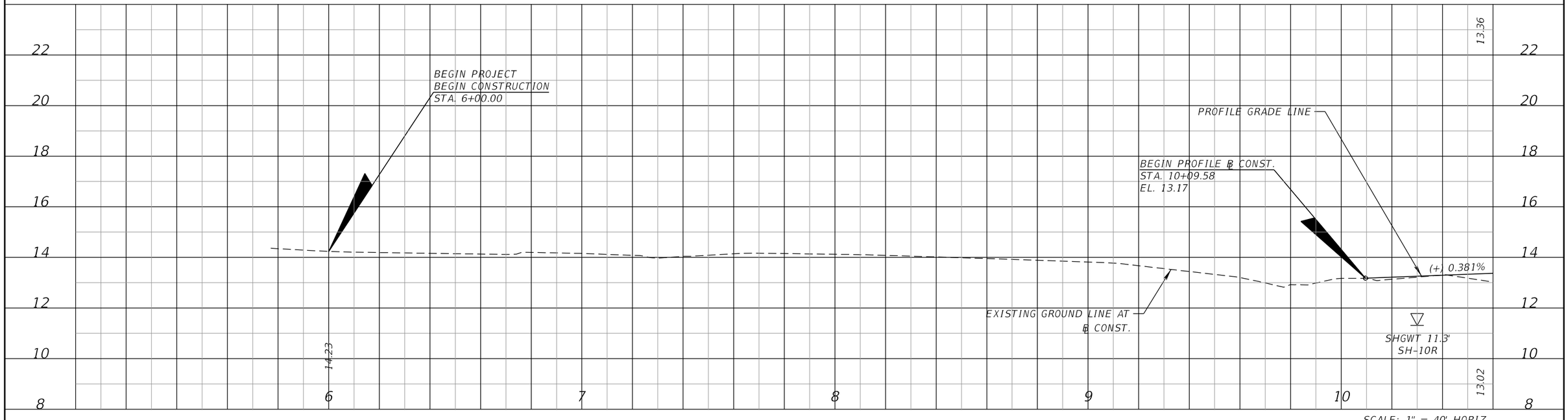
APPROVED BY:
ADAM R. AGUILA, P.E.
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FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
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FORT MYERS, FLORIDA 33901

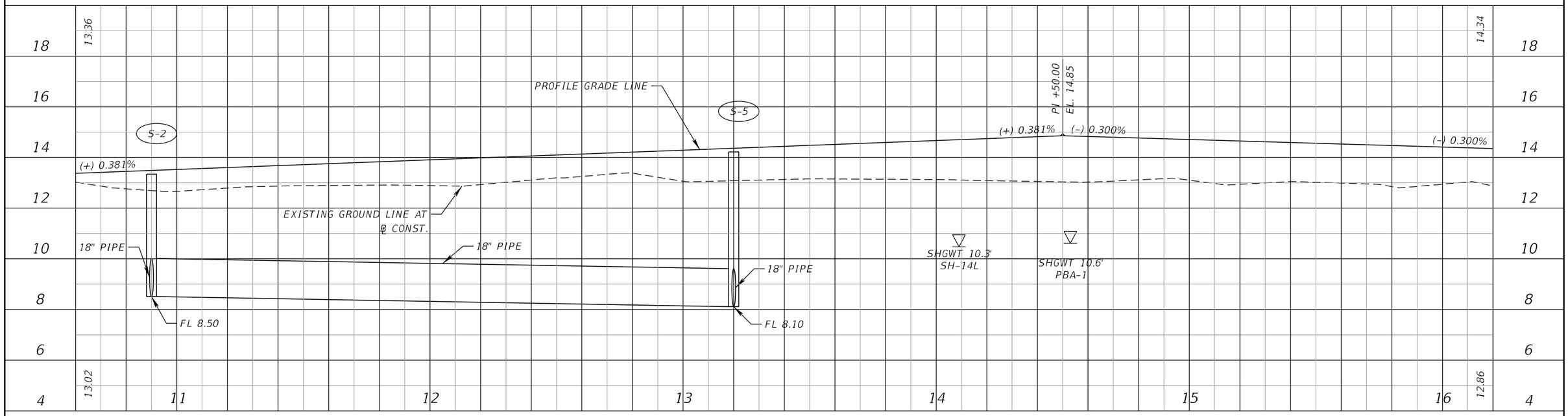
ROADWAY PLAN

SHEET NO. 24

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SCALE: 1" = 40' HORIZ.
1" = 4' VERT.



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

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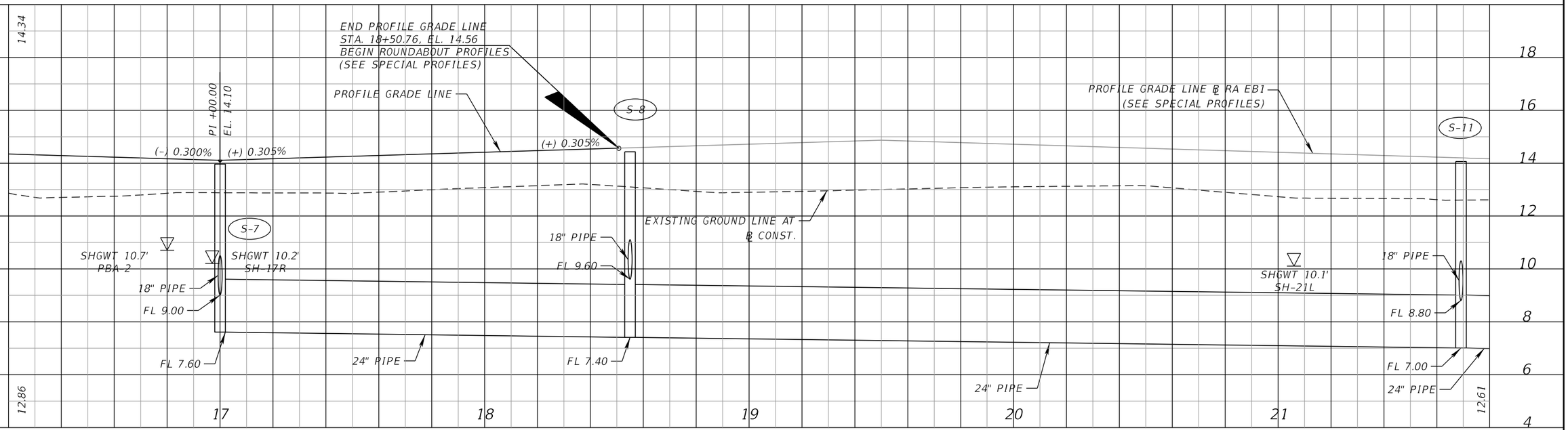
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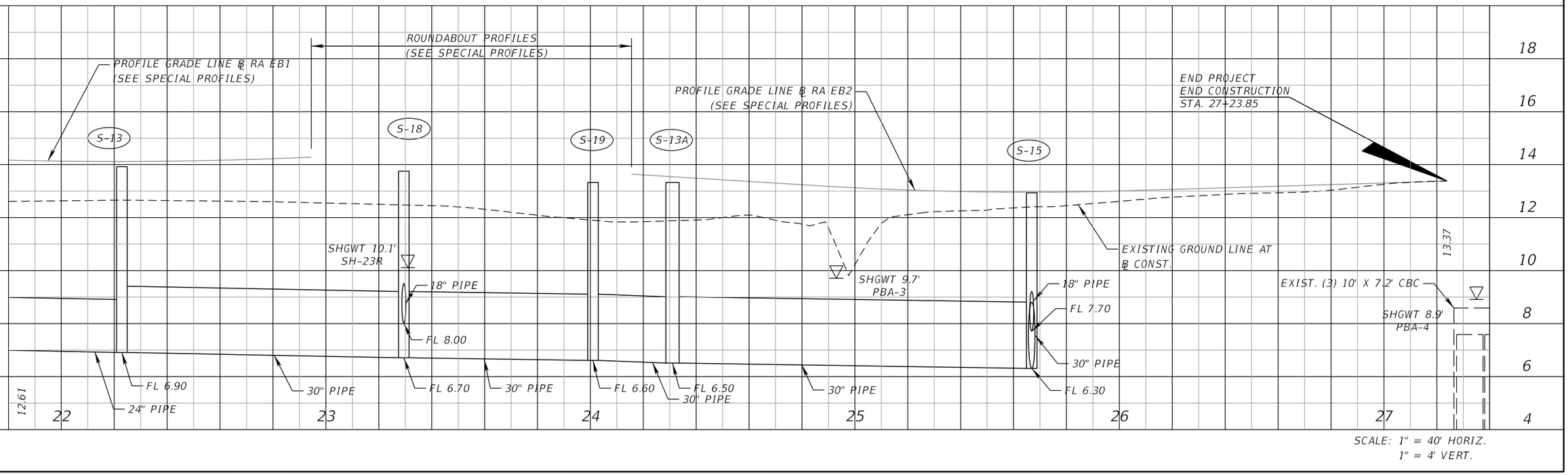
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LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
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DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY PROFILE

SHEET NO.
25





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NO.	DATE	BY	REVISIONS - DESCRIPTION

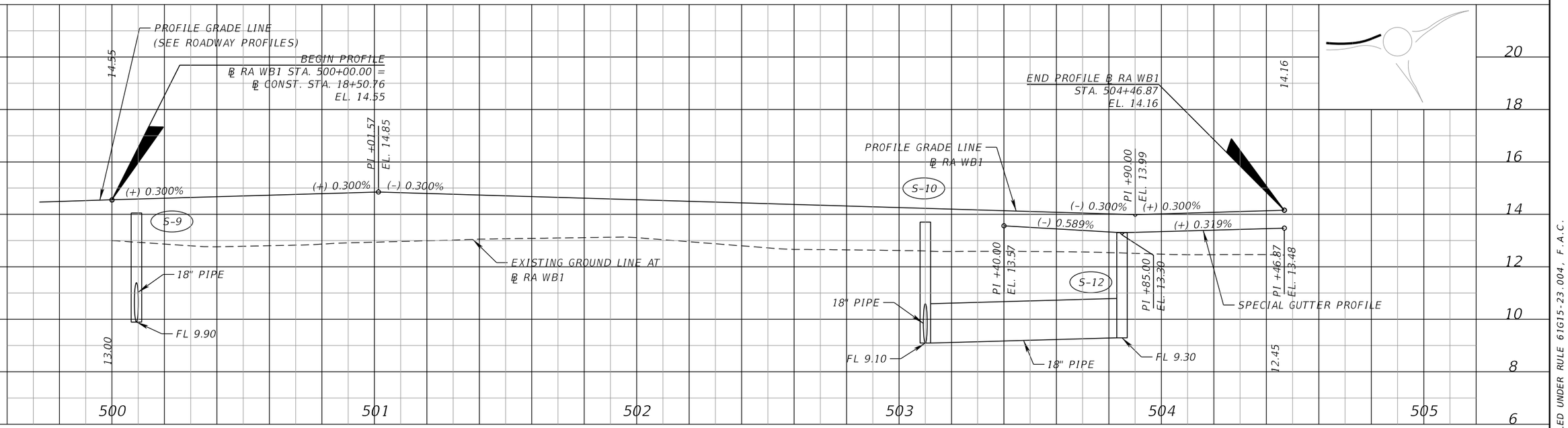
AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
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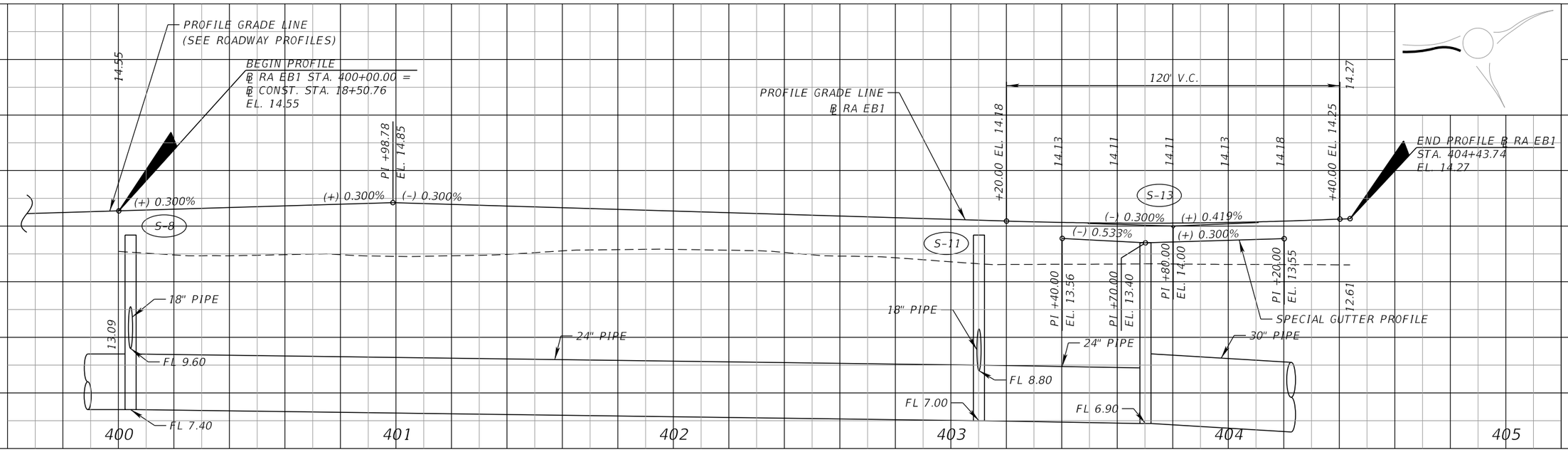
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ROADWAY PROFILE

SHEET NO. 26





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TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

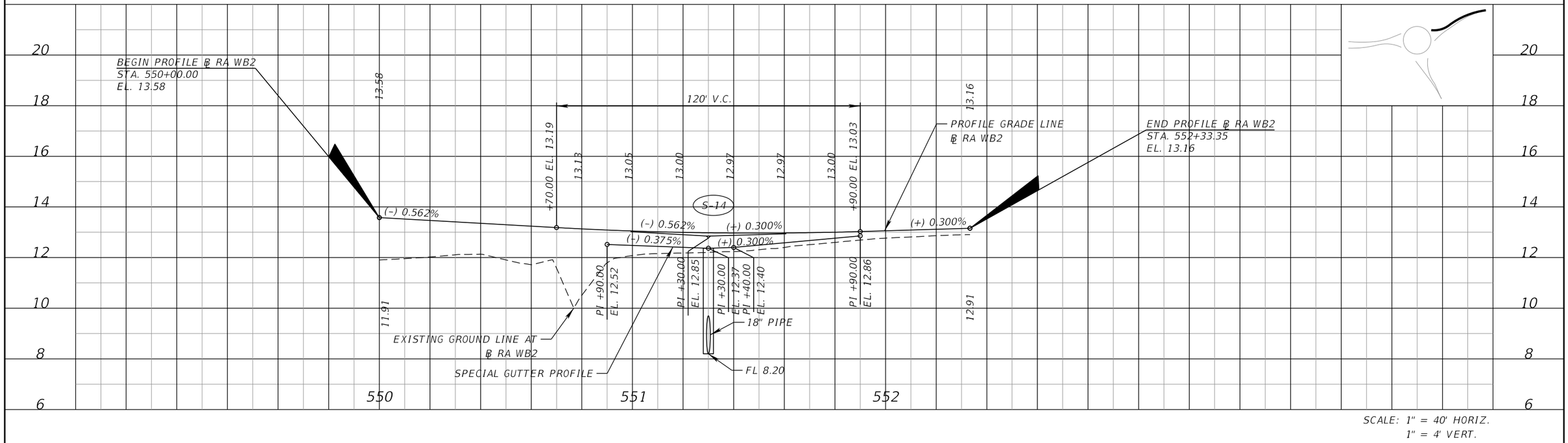
APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
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SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900

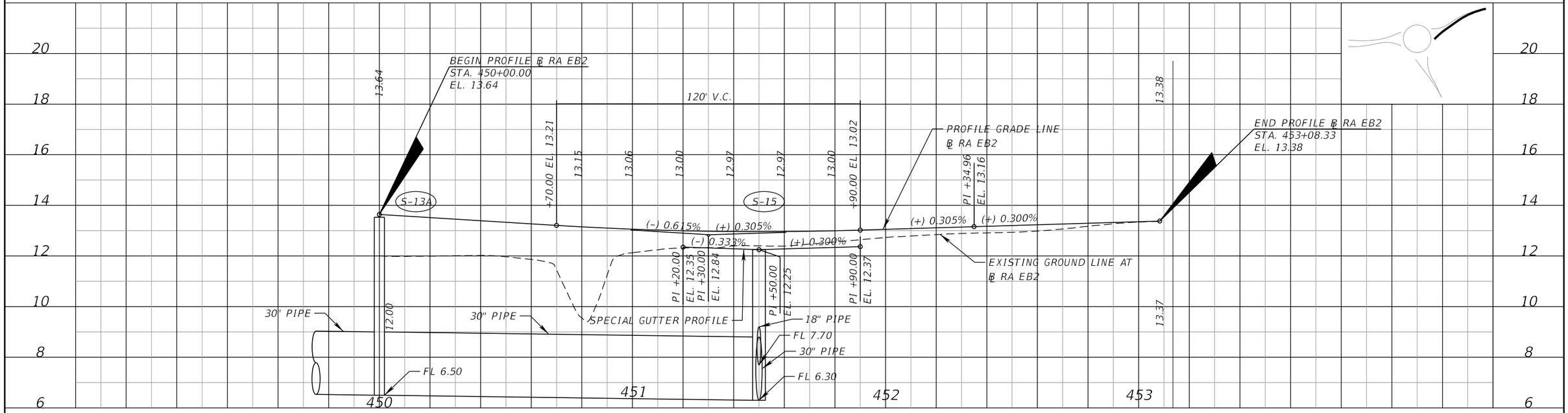
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SPECIAL PROFILES

SHEET NO. 27



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

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3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
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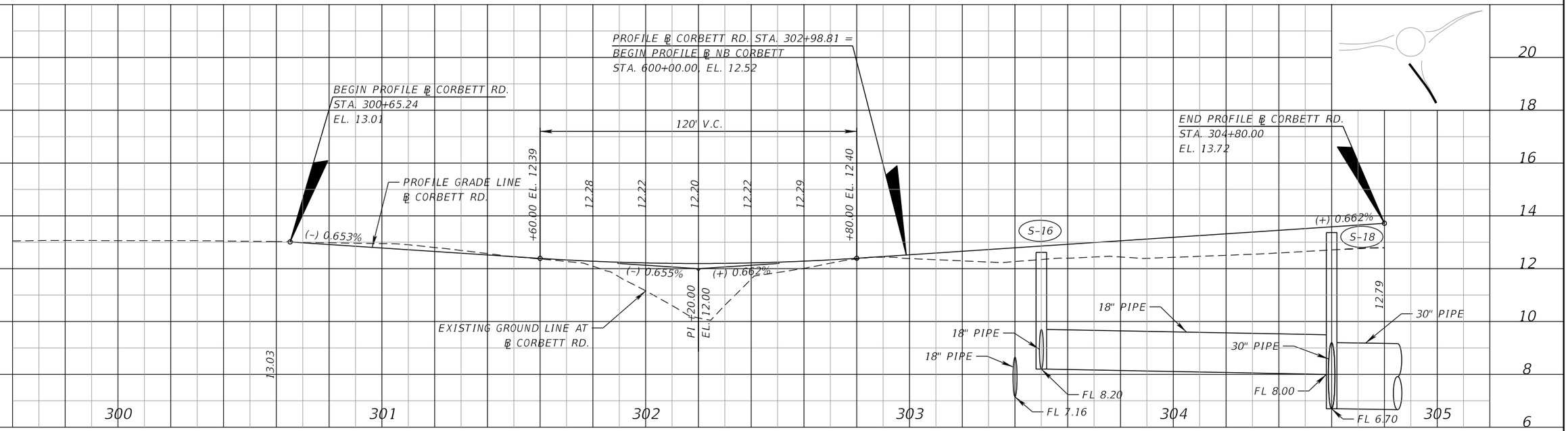
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SPECIAL PROFILES

SHEET NO.
28



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

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1" = 4' VERT.

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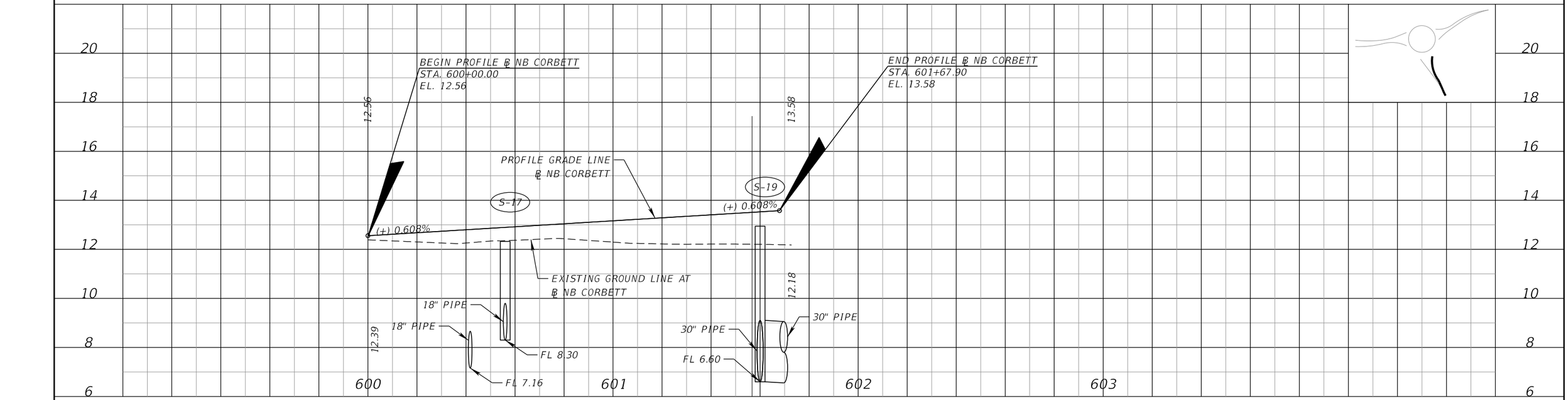
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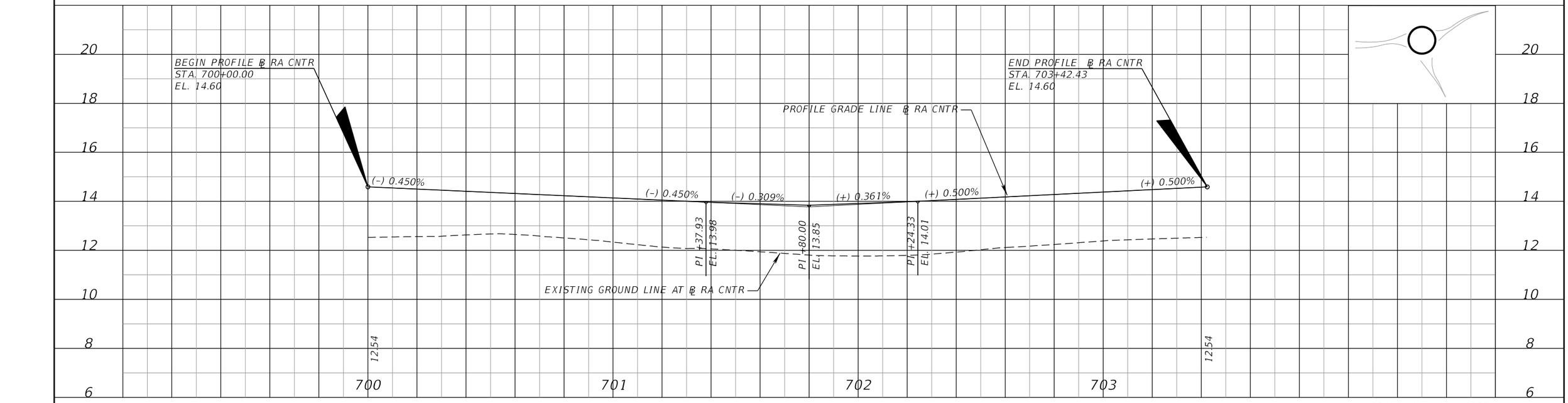
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SPECIAL PROFILES

SHEET NO.
29



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

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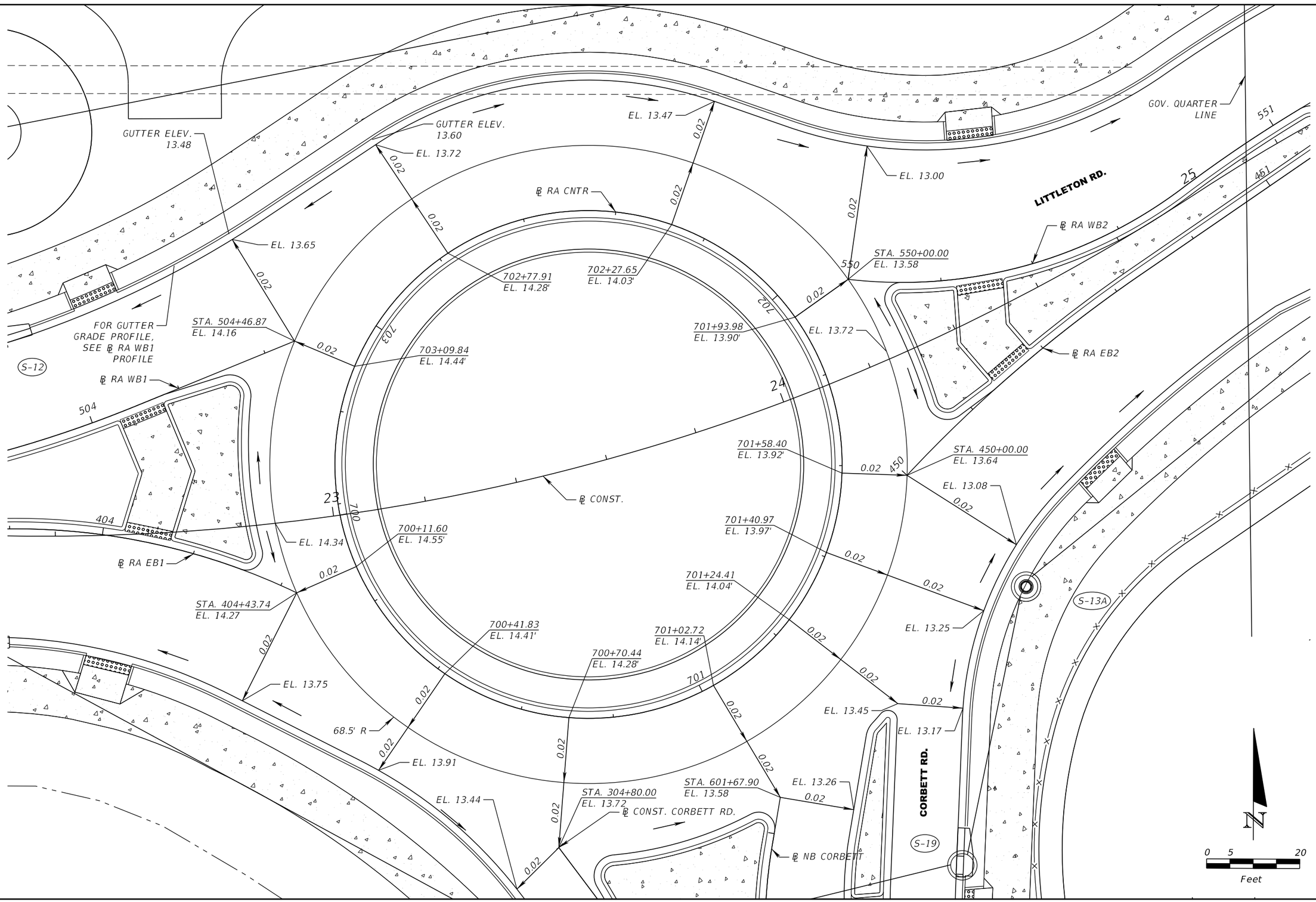
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SPECIAL PROFILES

SHEET NO. 30

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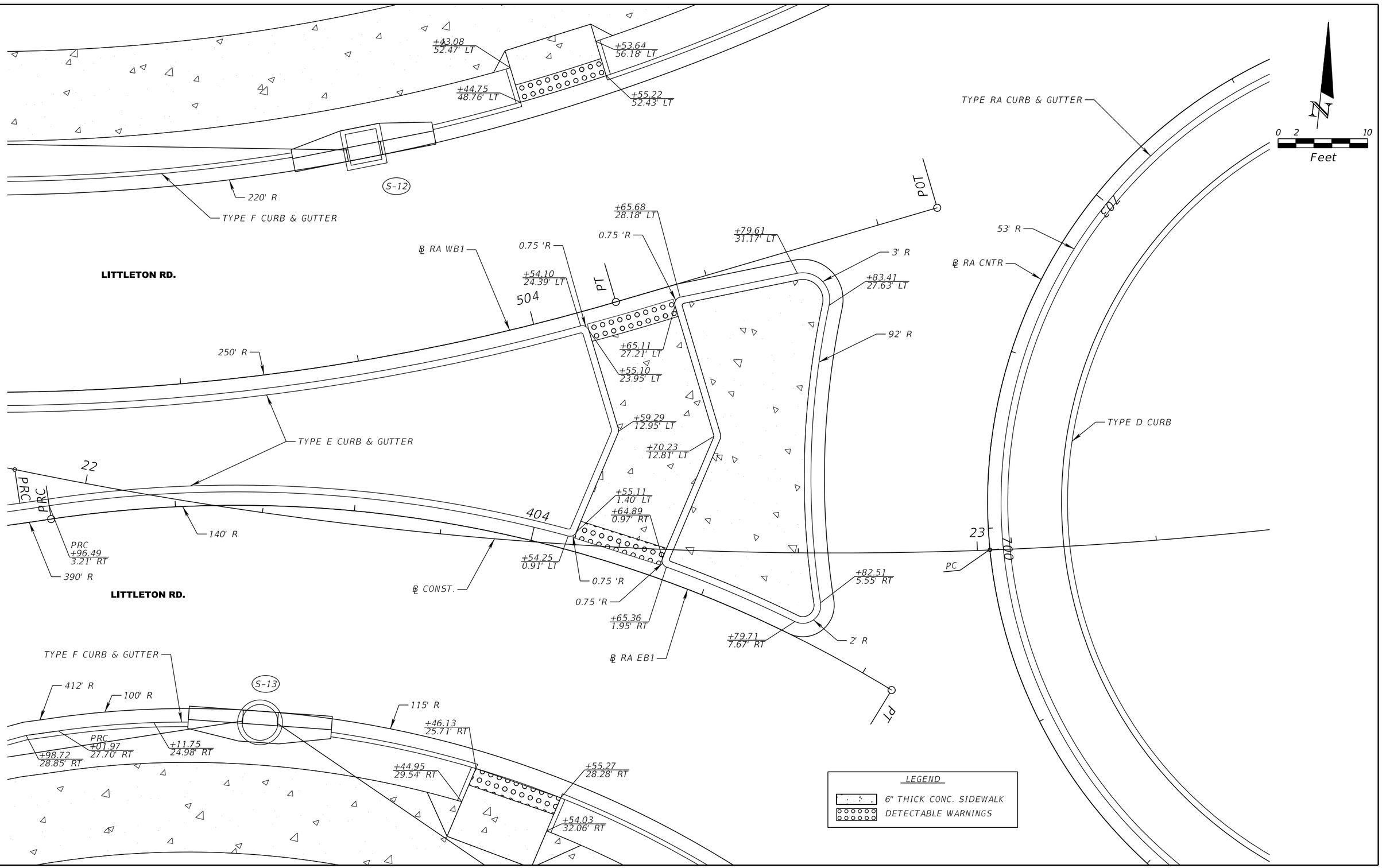
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INTERSECTION DETAIL

SHEET NO. 31



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INTERSECTION DETAIL

SHEET NO. 32

LEGEND

6" THICK CONC. SIDEWALK

DETECTABLE WARNINGS

0 2 10

Feet

LITTLETON RD.

GOV. QUARTER LINE

TYPE F CURB & GUTTER

TYPE E CURB & GUTTER

TYPE E CURB & GUTTER

TYPE F CURB & GUTTER

℄ RA CNTR

℄ CONST.

℄ RA WB2

℄ RA EB2

PC

PT

PRC

PRC

S-13A

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INTERSECTION DETAIL

SHEET NO. 33

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LEGEND

6" THICK CONC. SIDEWALK

DETECTABLE WARNINGS

NOTE: STATION AND OFFSETS ON THIS SHEET ARE BASED ON ℄ CONST. CORBETT RD.

CORBETT RD.

℄ CONST. CORBETT RD.

℄ NB CORBETT

℄ RA CNTR

TYPE E CURB & GUTTER

TYPE F CURB & GUTTER

PT

POT

PRC

PCC

304

601

701

S-18

S-19

+45.12
20.08' LT

+55.13
18.05' LT

+45.13
13.90' LT

+55.13
14.05' LT

499' R

98.50' R

+91.17
12.50' LT

+99.99
12.50' LT

+72.08
1.50' RT

+91.17
1.50' RT

+44.13
1.50' RT

1' R

+45.13
2.50' RT

+55.88
1.61' RT

+68.25
3.02' RT

1.25' R

3' R

+55.05
2.42' RT

+45.13
4.12' RT

+72.08
4.00' RT

+81.85
4.00' RT

EL. 12.97'

101.50' R

10' R

20' R

+43.55
9.52' RT

+70.46
7.58' RT

EL. 13.21'

0.02

+51.97
14.91' RT

EL. 12.82'

+35.39
20.39' RT

+06.42
30.79' RT

80' R

EL. 12.44'

TYPE E CURB & GUTTER

1' R

+36.78
20.09' RT

+44.76
26.17' RT

+13.11
33.02' RT

73.50' R

1' R

+44.96
27.47' RT

101.50' R

+59.49
37.11' RT

EL. 12.73'

+24.18
37.76' RT

+53.50
35.48' RT

+05.58
32.59' RT

1' R

+24.55
39.19' RT

252.5' R

2' R

+56.06
38.17' RT

1' R

+34.43
44.32' RT

+20.97
42.83' RT

+32.98
44.58' RT

TYPE F CURB & GUTTER

EL. 12.60'

237' R

1' R

+22.40
42.56' RT

73.50' R

+43.09
52.10' RT

+30.31
48.74' RT

1' R

+30.54
50.06' RT

252.5' R

EL. 12.25'

EL. 12.67

+12.51
58.00' RT

+20.35
64.30' RT

+33.23
52.23' RT

EL. 13.48

+09.26
63.07' RT

+58.79
68.63' RT

2' R

+04.96
69.81' RT

+59.31
69.64' RT

+59.98
72.92' RT

+18.18
67.70' RT

+59.18
73.42' RT

0.50' R

0 2 10
Feet

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FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900

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of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

INTERSECTION DETAIL

SHEET NO.
34

S-5 STA. 13+20.00

S-4 STA. 13+20.00

S-3 STA. 13+20.00

℄ CONST.

EXIST. R/W LINE

EL 14.57

EL 14.35

POND 1A

EL 7.70

1:4

1:4

S-5
STA. 13+20.00 (40.50' RT)
INLET TYPE P-5 (W/ 2' SUMP)
INDEX 425-021
ELEV. 13.83 (EOP)
FL 8.10 BK
FL 8.10 LT

8.10
6.10

CONST. 18" RCP

FROM S-2

S-3
STA. 13+20.00 (71.00' LT)
18" CROSS DRAIN MES (1:4)
INDEX 430-021
ELEV. 7.80 FL

CONST. 18" RCP

7.90
5.90

S-4
STA. 13+20.00 (40.50' LT)
INLET TYPE P-5 (W/ 2' SUMP)
INDEX 425-021
ELEV. 13.83 (EOP)
FL 7.90 RT
FL 7.90 LT

EXIST. R/W LINE

EL 13.70

EL 13.48

TO S-5

CONST. 18" RCP

S-2 STA. 10+90.00

EXIST. R/W LINE

S-2
STA. 10+90.00 (40.57' RT)
INLET TYPE P-5 (W/ 2' SUMP)
INDEX 425-021
ELEV. 12.96 (EOP)
FL 8.50 AH
FL 8.50 LT

FROM S-1

8.50
6.50

CONST. 18" RCP

EXIST. R/W LINE

EL 13.64

EL 13.42

EXIST. R/W LINE

S-1 STA. 10+75.00

TO S-2

CONST. 18" RCP

8.70
6.70

S-1
STA. 10+75.00 (40.51' LT)
INLET TYPE P-5 (W/ 2' SUMP)
INDEX 425-021
ELEV. 12.90 (EOP)
FL 8.70 RT

℄ CONST.

SCALES: 1" = 20' HORIZ.
1" = 10' VERT.

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TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
FAX (813) 664-1899
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ANDREW GREGG, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 72443

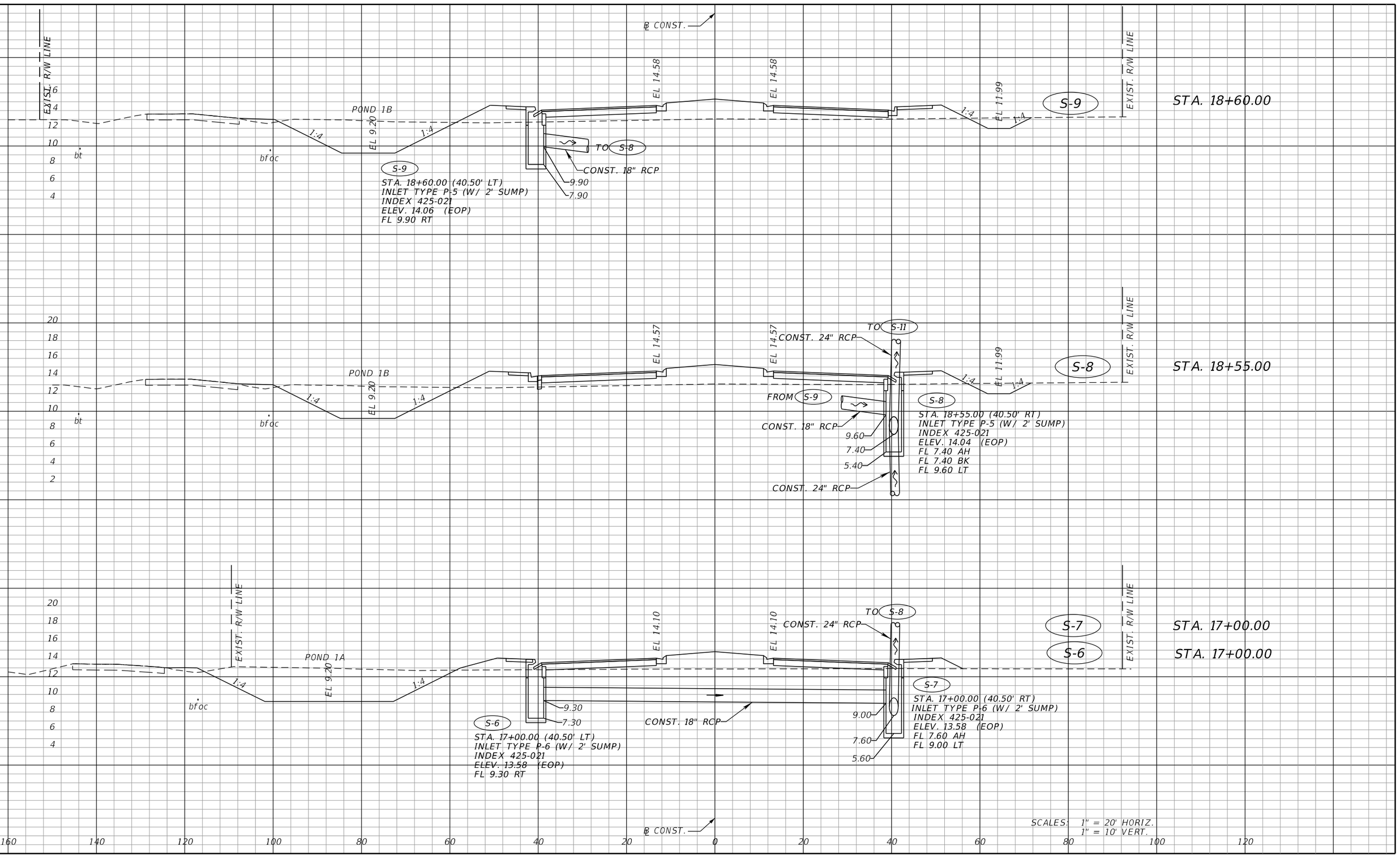
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FORT MYERS, FLORIDA 33901

DRAINAGE STRUCTURES

SHEET NO. 35

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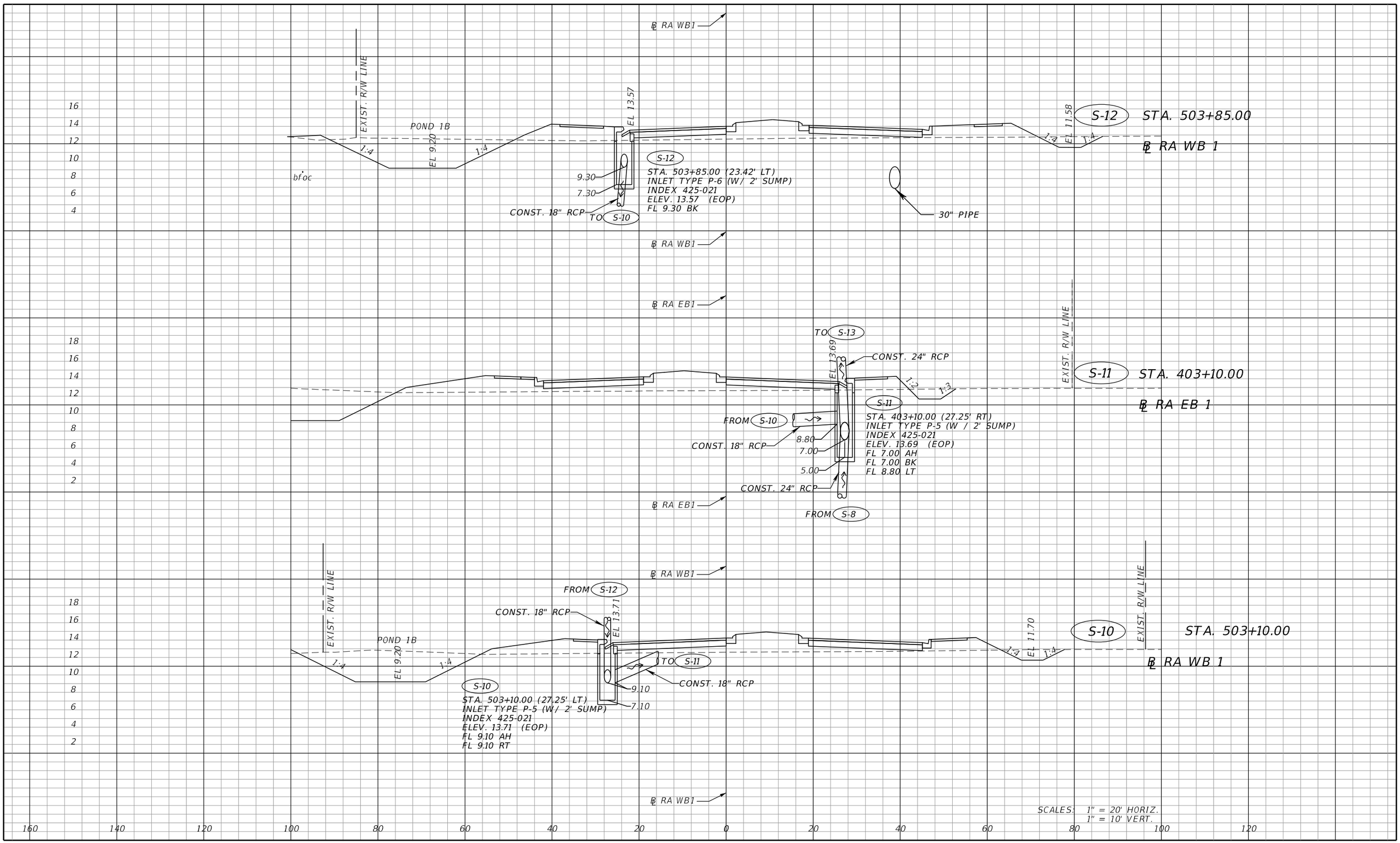
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DRAINAGE STRUCTURES

SHEET NO. 36



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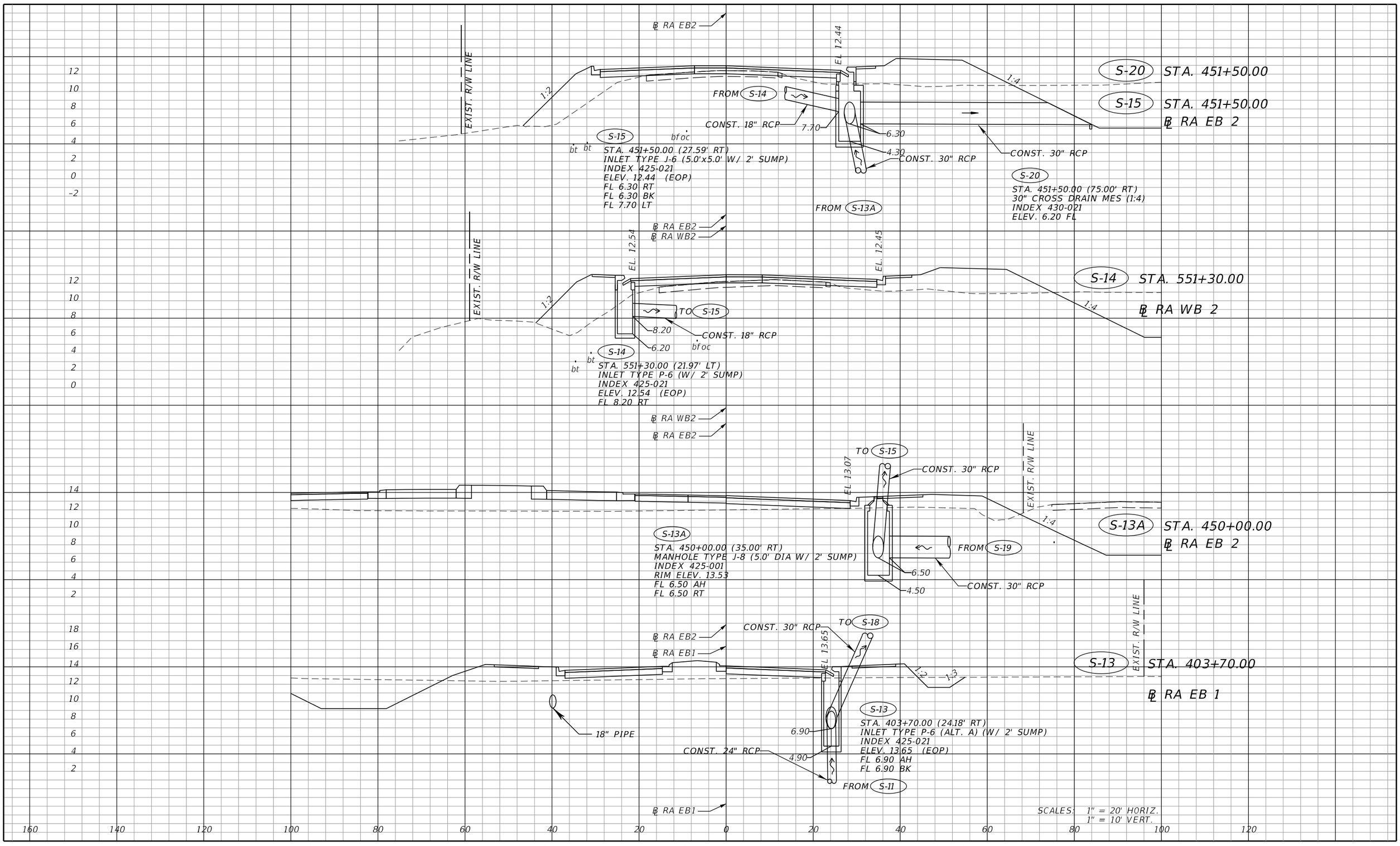
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FLORIDA
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DRAINAGE STRUCTURES

SHEET NO. 37

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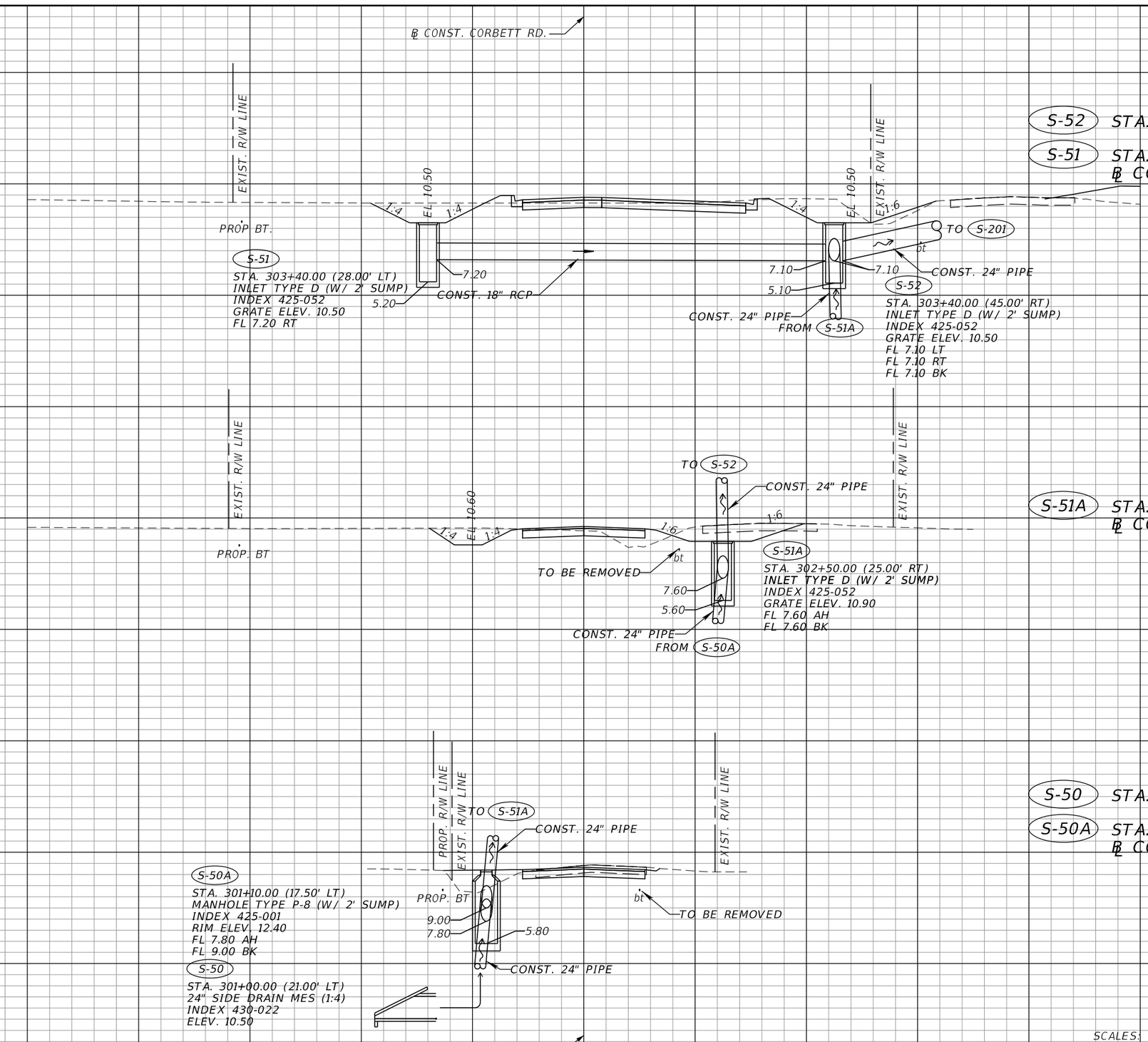
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DRAINAGE STRUCTURES

SHEET NO. 38

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S-52 STA. 303+40.00

S-51 STA. 303+40.00
℄ CONST. CORBETT RD.

S-51A STA. 302+50.00
℄ CONST. CORBETT RD.

S-50 STA. 301+00.00

S-50A STA. 301+20.00
℄ CONST. CORBETT RD.

SCALES: 1" = 20' HORIZ.
1" = 10' VERT.

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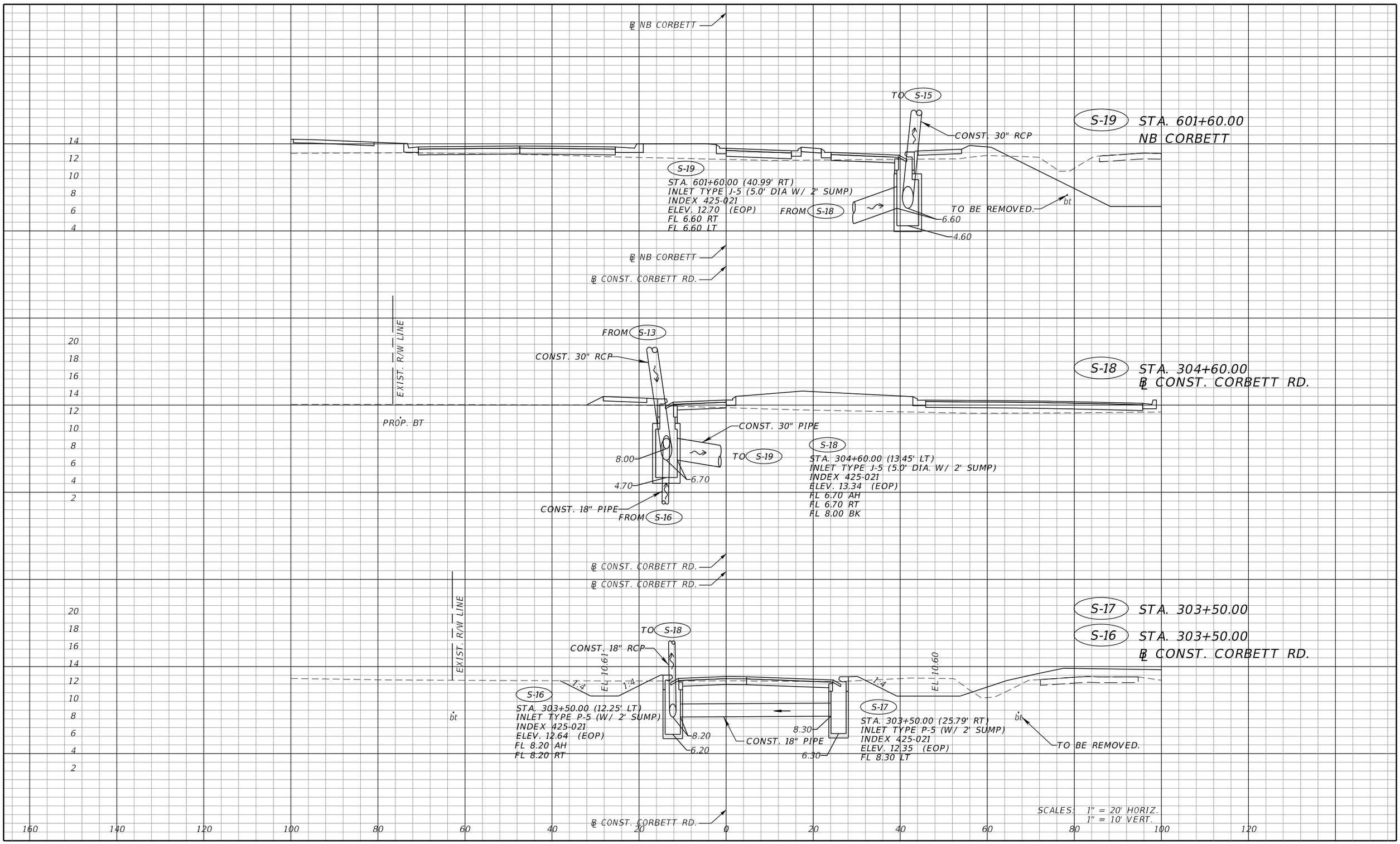
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DRAINAGE STRUCTURES

SHEET NO. 39



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DRAINAGE STRUCTURES

SHEET NO. 40

CONTROL POINT	STATION	OFFSET
RP 1	13+13.33	95.23 LT
RP 2	13+16.26	132.13 LT
RP 3	13+68.28	96.96 LT
RP 4	13+71.51	127.59 LT
RP 5	15+01.44	155.50 LT
RP 6	17+36.61	85.88 LT

N

0 10 40

Feet

EXIST. R/W LINE

N 89° 46' 57" E

203 204 205 206 207

℄ CONST. LITTLETON RD.

EXIST. LITTLETON RD.

EXIST. R/W LINE

N

A

B

13.0

9.2

6'

1:4

7.7

15.2'

1:4

RP 5
R 85'

RP 2
R 19'

RP 4
R 19'

RP 1
R 19'

RP 3
R 19'

RP 6
R 11'

POND 1A
25YR DHW = 11.92
SHWT = 10.20

S-3

PBS-1

PBA-1

PBA-2

S-100

AB-18L2

CONST. 18" PIPE

PBS-2

S-4

S-6

CONST. 18" PIPE

SH-14L

AB-15L

B-16L

AB-17L

AB-18L

AB-13L

13 14 15 16 17 18

℄ CONST.

AB-16R

CONST. 18" PIPE

B-12R

AB-14R

AB-15R

LITTLETON RD.

SH-17R

S-7

CONST. 24" PIPE

AB-13R

S-5

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of
TRANSPORTATION

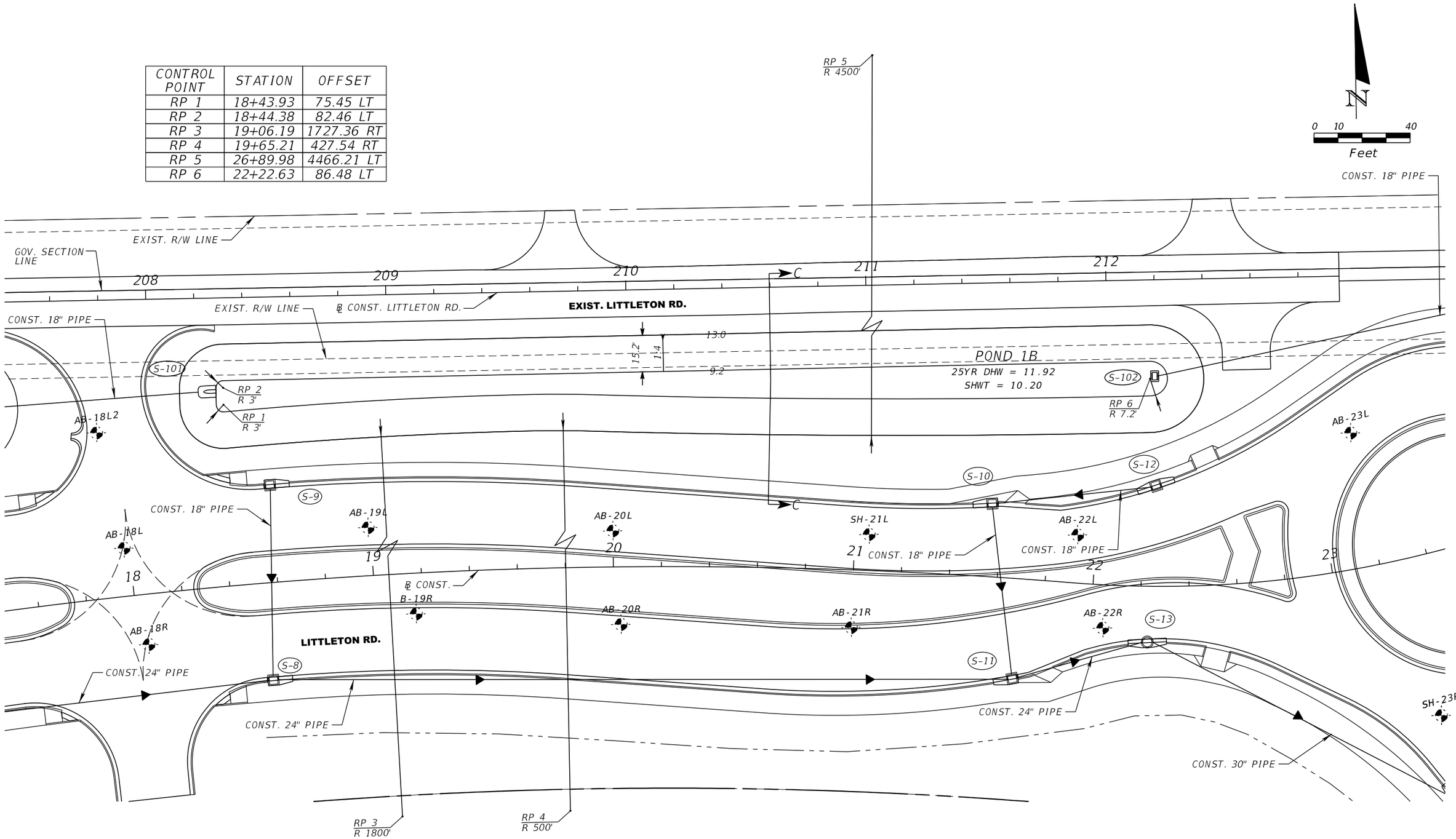
1500 MONROE STREET
(239) 479-8900

FORT MYERS, FLORIDA 33901

POND 1A DETAIL

SHEET NO.
41

CONTROL POINT	STATION	OFFSET
RP 1	18+43.93	75.45 LT
RP 2	18+44.38	82.46 LT
RP 3	19+06.19	1727.36 RT
RP 4	19+65.21	427.54 RT
RP 5	26+89.98	4466.21 LT
RP 6	22+22.63	86.48 LT



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NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

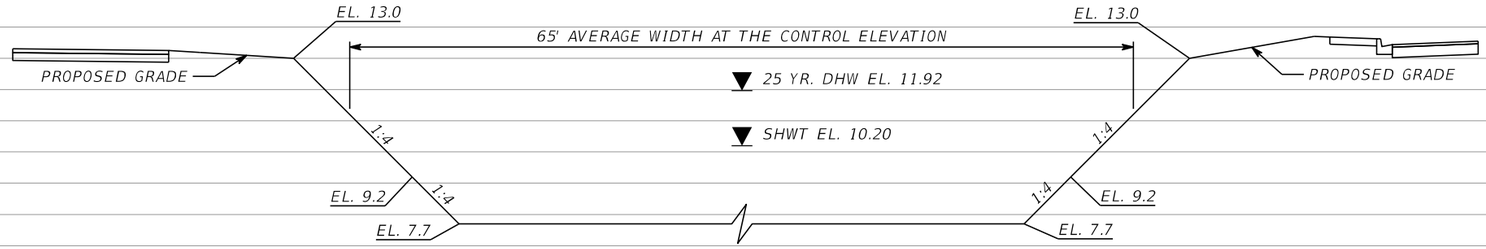
APPROVED BY:
ANDREW GREGG, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 72443

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

POND 1B DETAIL

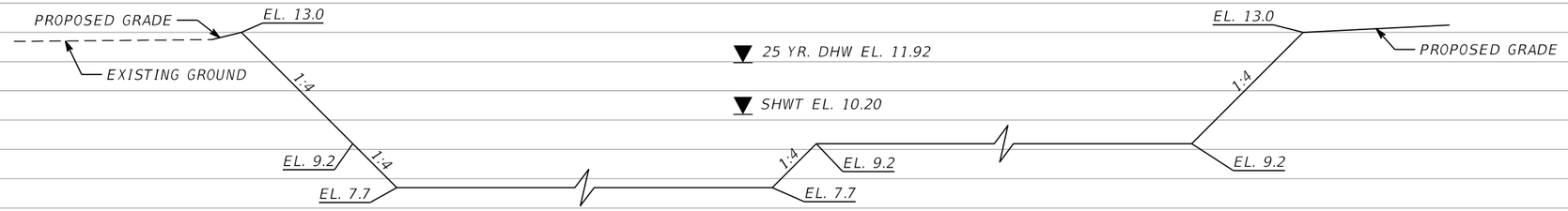
SHEET NO. 42

POND 1A TYPICAL SECTION A-A



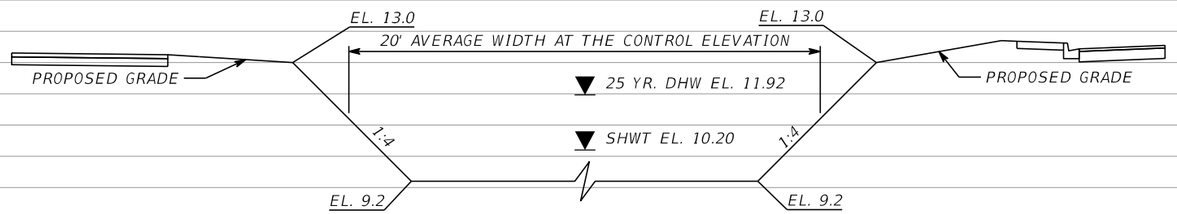
N.T.S.

POND 1A TYPICAL SECTION B-B



N.T.S.

POND 1B TYPICAL SECTION C-C



N.T.S.

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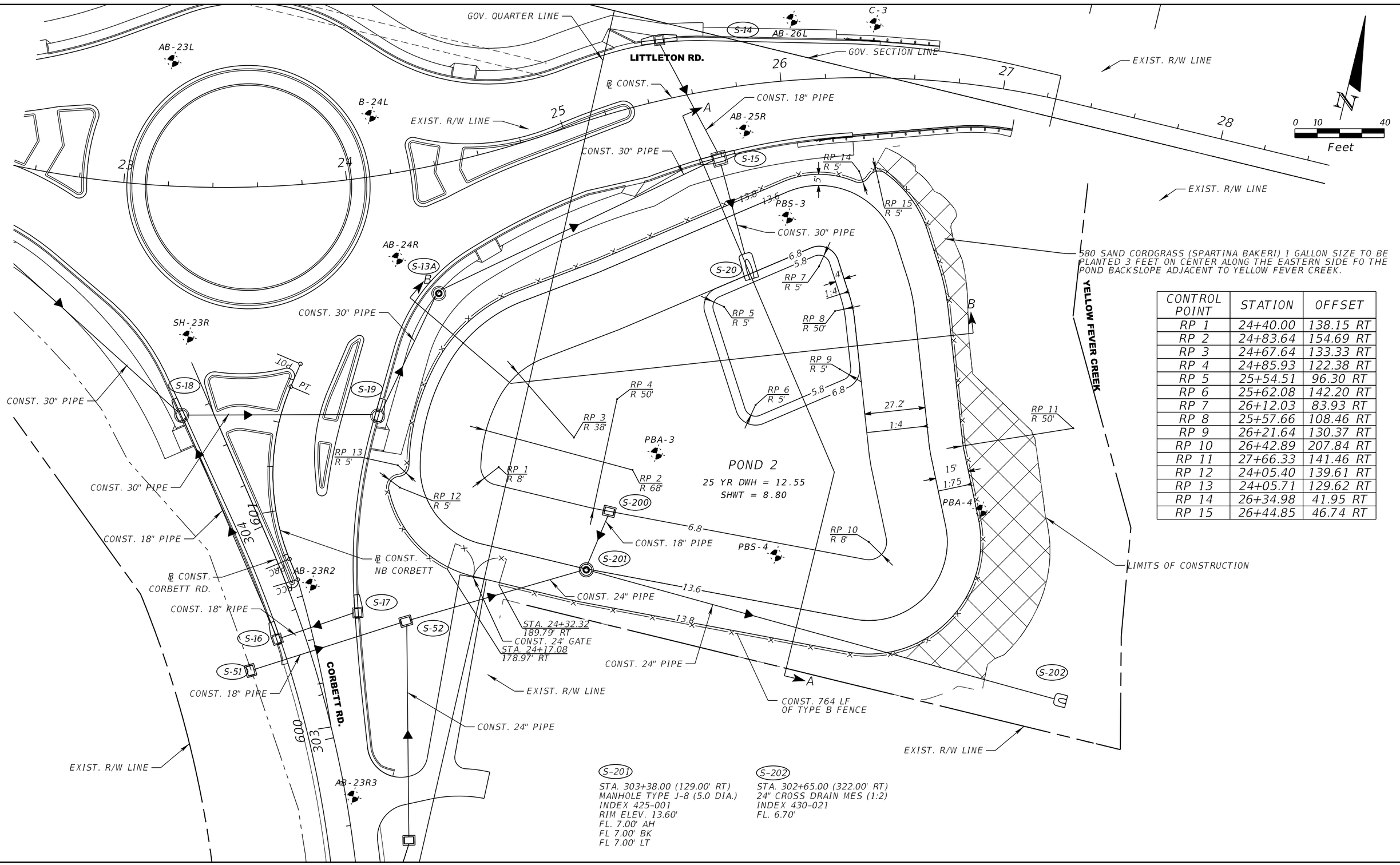
AIM ENGINEERING & SURVEYING, INC.
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POND DETAIL
POND 1 TYPICAL SECTIONS

SHEET NO.
43



580 SAND CORDGRASS (SPARTINA BAKERI) 1 GALLON SIZE TO BE PLANTED 3 FEET ON CENTER ALONG THE EASTERN SIDE FO THE POND BACKSLOPE ADJACENT TO YELLOW FEVER CREEK.

CONTROL POINT	STATION	OFFSET
RP 1	24+40.00	138.15 RT
RP 2	24+83.64	154.69 RT
RP 3	24+67.64	133.33 RT
RP 4	24+85.93	122.38 RT
RP 5	25+54.51	96.30 RT
RP 6	25+62.08	142.20 RT
RP 7	26+12.03	83.93 RT
RP 8	25+57.66	108.46 RT
RP 9	26+21.64	130.37 RT
RP 10	26+42.89	207.84 RT
RP 11	27+66.33	141.46 RT
RP 12	24+05.40	139.61 RT
RP 13	24+05.71	129.62 RT
RP 14	26+34.98	41.95 RT
RP 15	26+44.85	46.74 RT

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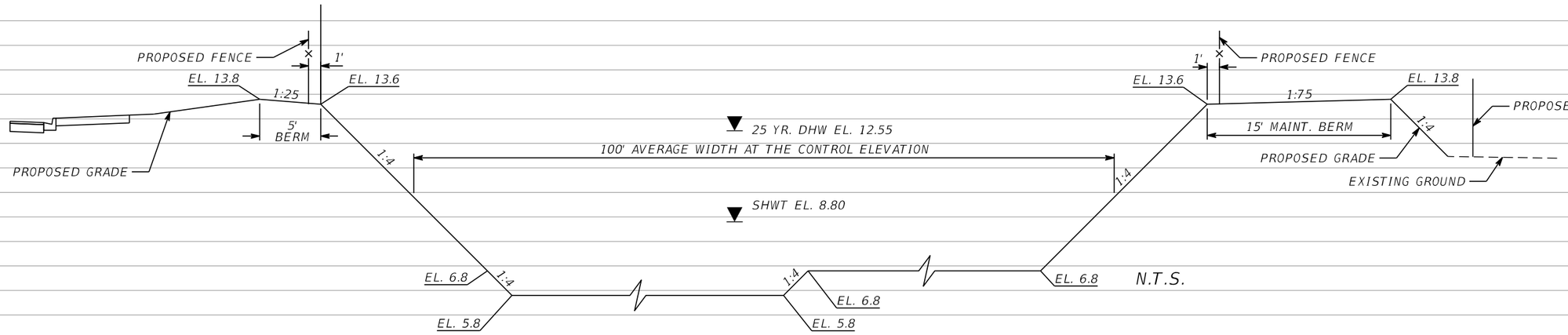
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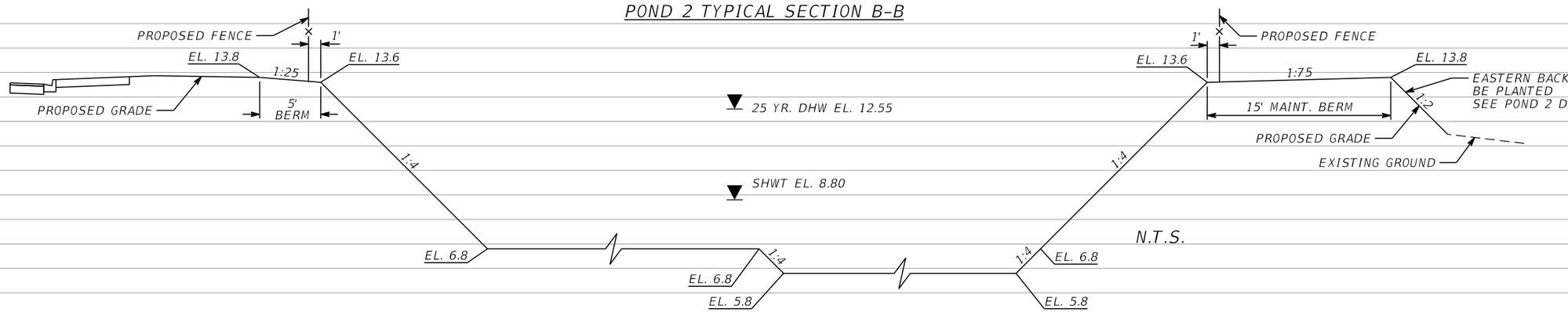
POND 2 DETAIL

SHEET NO. 44

POND 2 TYPICAL SECTION A-A



POND 2 TYPICAL SECTION B-B



NO.	DATE	BY	REVISIONS - DESCRIPTION

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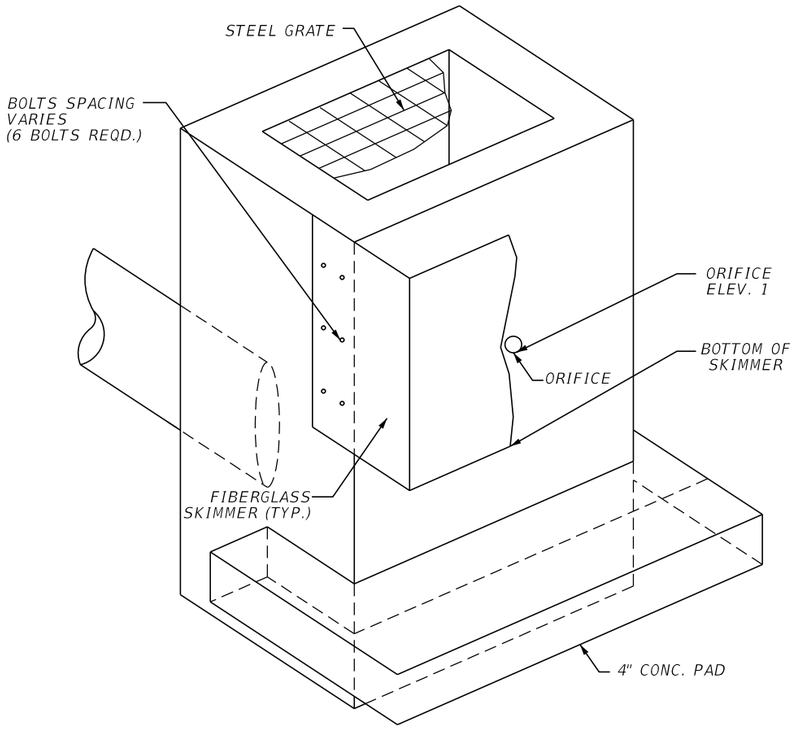
POND DETAIL
POND 2 TYPICAL SECTIONS

SHEET NO. 45

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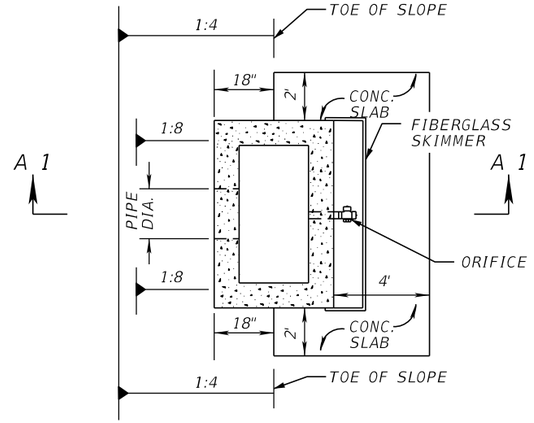
AAguila 7/11/2019 3:49:58 PM P:\Lee_LittletonKismet\CN160459\drainage\PDXSRD02.DGN

POND NO.	INLET		REFERENCE	STRUCTURE NO.	STRUCTURE TYPE	GRATE ELEV.	ORIFICE ELEV. 1	ORIFICE DIA. (IN.)	TOP OF SKIMMER	BOTTOM OF SKIMMER	CONC. SLAB ELEV.	FL. ELEV.	PIPE DIA.	PIPE LENGTH (FT.)	OUTLET TYPE	OUTFALL	
	STATION	OFFSET														STATION	OFFSET
1	22+25.00	90.00' LT.	℄ CONST.	S-102	C (MOD.)	12.00	10.20	3.75	12.00	9.70	9.20	7.50	18" 18"	196 81	MH-MES	25+50.00	53.00' LT.
2	303+55.00	147.00' RT.	℄ CONST. CORBETT	S-200	C (MOD.)	12.60	8.80	3.25	12.60	8.30	6.80	7.10	18" 24"	25 214	MH-MES	302+65.00	322.00' RT.



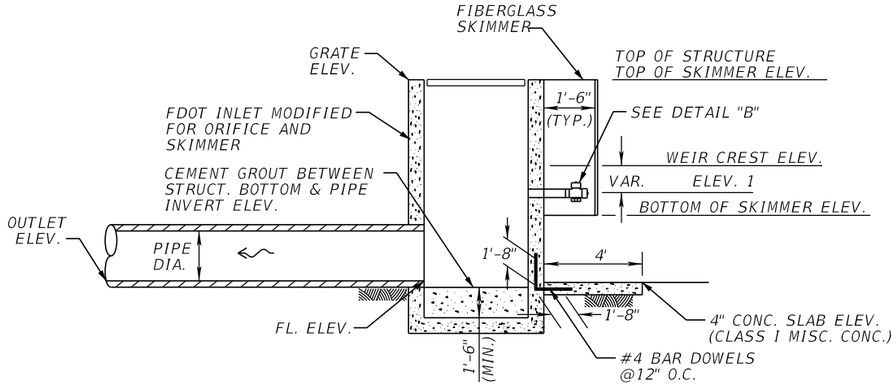
ISOMETRIC VIEW

N.T.S.



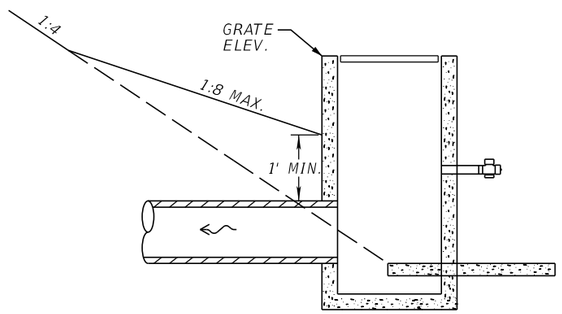
PLAN VIEW

N.T.S.



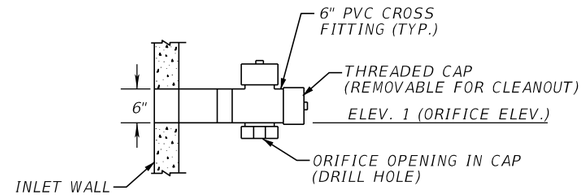
SECTION A 1 - A 1 (TYP.)

N.T.S.



PIPE COVER DETAIL

N.T.S.



ORIFICE DETAIL "B"

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.

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TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ANDREW GREGG, P.E.
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FLORIDA CERTIFICATE NO. 72443

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

POND DETAIL CONTROL STRUCTURE

SHEET NO. 46

DATE OF SURVEY: AUGUST 2018
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: ERICK M. FREDERICK, P.E.

LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

COUNTY: LEE

FINANCIAL PROJECT ID : CN160459DLK
PROJECT NAME: LITTLETON RD AND KISMET PKWY REALIGNMENT

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 5+77.08 SURVEY ENDS STA. : 29+03.69 REFERENCE: CENTERLINE CONSTRUCTION OF KISMET PKWY

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	--	11	100	90-92	54-60	23-26	1-14	--	--	--	A-3/A-2-4	GRAY TO BROWN SAND TO SAND WITH SILT	2	32,000-53,000	15	<5	6.4-6.8
2	--	--	2	20-21	8	--	--	--	--	15-34	2	NP	NP	A-2-4	GRAY TO BROWN SAND TO SILTY SAND OCCASIONALLY WITH LIMEROCK AND/OR SHELL FRAGMENTS	--	--	--	--	--
3	--	--	4	19-33	5	--	--	--	--	23-61	4	28-32	9-18	A-2-6/A-4	GRAY TO BROWN SILTY-CLAYEY SAND TO CLAYEY SAND	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	A-3/A-2-4	GRAY TO BROWN SAND WITH SILT (FILL) WITH SHELL AND LIMEROCK FRAGMENTS	--	--	--	--	--

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATA 2 AND 4 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM 3 (A-2-6/A-4) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

GNE - GROUNDWATER NOT ENCOUNTERED

NP - NON-PLASTIC

P - PAVEMENT AND BASE MATERIAL

R - HAND AUGER REFUSAL ON SHELL AND LIMEROCK FRAGMENTS

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

NO.	DATE	BY	REVISIONS - DESCRIPTION

ERICK M. FREDERICK, P.E.
P.E. LICENSE NUMBER 63920
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION NO. 6486

APPROVED BY:
ERICK M. FREDERICK, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 63920

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY SOIL SURVEY

SHEET NO. 47

DATE OF SURVEY: AUGUST 2018
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: ERICK M. FREDERICK, P.E.

LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

COUNTY: LEE

FINANCIAL PROJECT ID : CN160459DLK
PROJECT NAME: LITTLETON RD AND KISMET PKWY REALIGNMENT

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 5+77.08 SURVEY ENDS STA. : 29+03.69 REFERENCE: CENTERLINE CONSTRUCTION OF KISMET PKWY

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	--	11	100	90-92	54-60	23-26	1-14	--	--	--	A-3/A-2-4	GRAY TO BROWN SAND TO SAND WITH SILT	2	32,000-53,000	15	<5	6.4-6.8
2	--	--	2	20-21	8	--	--	--	--	15-34	2	NP	NP	A-2-4	GRAY TO BROWN SAND TO SILTY SAND OCCASIONALLY WITH LIMEROCK AND/OR SHELL FRAGMENTS	--	--	--	--	--
3	--	--	4	19-33	5	--	--	--	--	23-61	4	28-32	9-18	A-2-6/A-4	GRAY TO BROWN SILTY-CLAYEY SAND TO CLAYEY SAND	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	A-3/A-2-4	GRAY TO BROWN SAND WITH SILT (FILL) WITH SHELL AND LIMEROCK FRAGMENTS	--	--	--	--	--

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FOOT STANDARD PLANS, INDEX 120-001.
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3. THE MATERIAL FROM STRATUM 3 (A-2-6/A-4) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH FOOT STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH FOOT STANDARD PLANS, INDEX 120-001.
4. NEAR SURFACE LIMESTONE/CAPROCK WAS NOT ENCOUNTERED IN THE BORINGS PERFORMED. HOWEVER CAPROCK MAY BE ENCOUNTERED ALONG THE PROJECT AND SHOULD BE ANTICIPATED. CAPROCK CAN BE DIFFICULT TO EXCAVATE AND THE CONTRACTOR SHOULD CONSIDER THIS WHEN PREPARING THEIR BID.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

GNE - GROUNDWATER NOT ENCOUNTERED

NP - NON-PLASTIC

P - PAVEMENT AND BASE MATERIAL

R - HAND AUGER REFUSAL ON SHELL AND LIMEROCK FRAGMENTS

NO.	DATE	BY	REVISIONS - DESCRIPTION

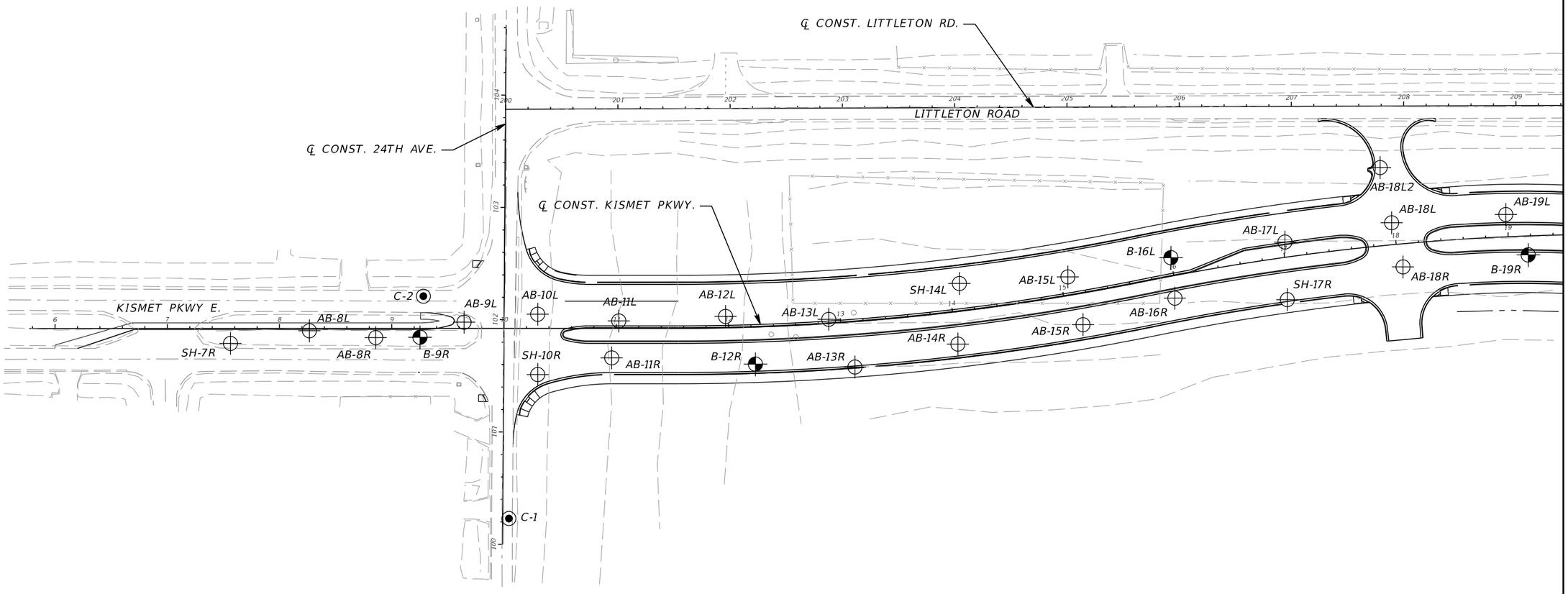
ERICK M. FREDERICK, P.E.
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
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FORT MYERS, FLORIDA 33901

ROADWAY SOIL SURVEY

SHEET NO. 47A



LEGEND

- APPROXIMATE SPT BORING LOCATION
- APPROXIMATE AUGER BORING LOCATION
- APPROXIMATE PAVEMENT CORE LOCATION

NO.	DATE	BY	REVISIONS - DESCRIPTION

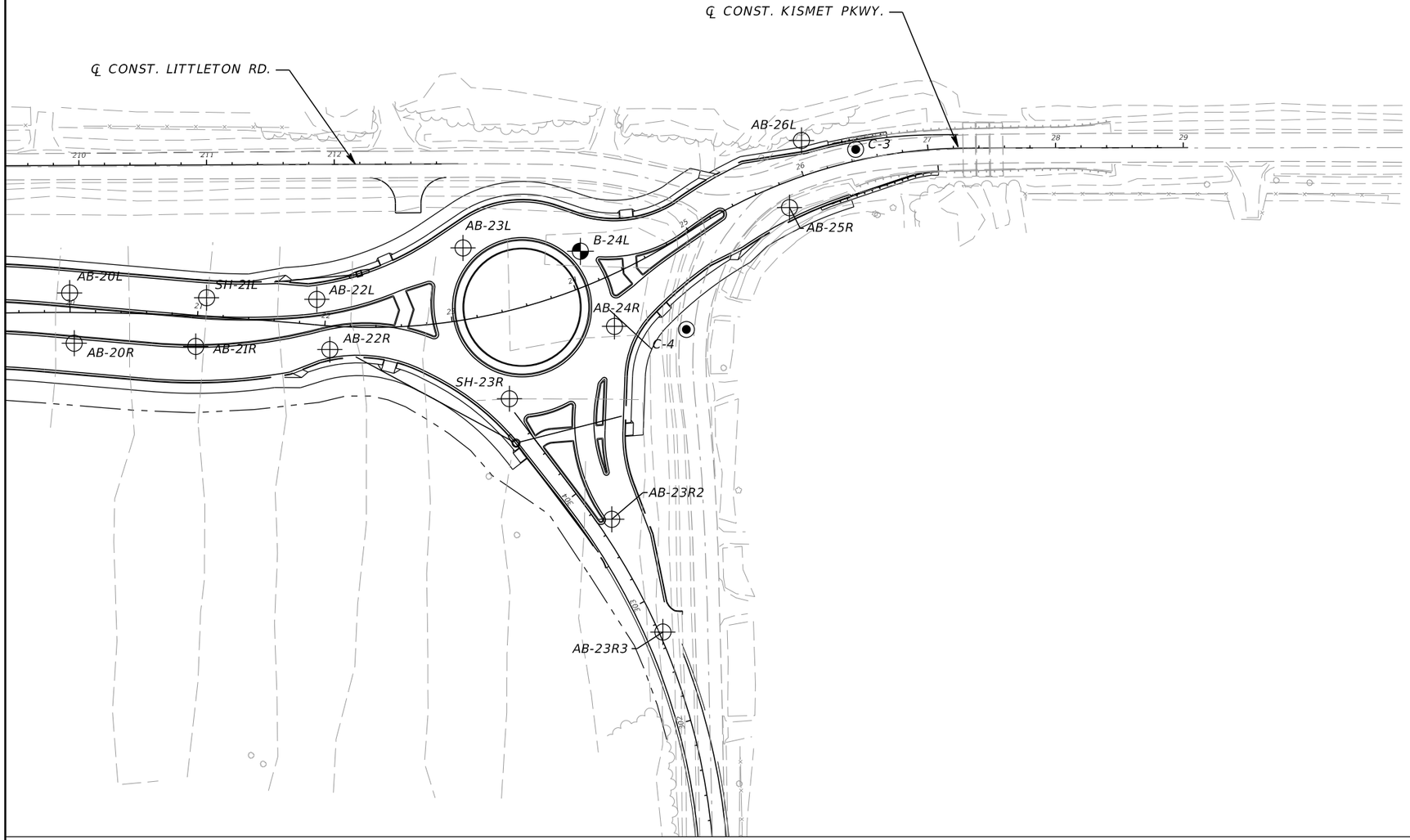
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FORT MYERS, FLORIDA 33901

BORING LOCATION PLAN (1)

SHEET NO.
47B



N

0 20 100

Feet

LEGEND

- APPROXIMATE SPT BORING LOCATION
- APPROXIMATE AUGER BORING LOCATION
- APPROXIMATE PAVEMENT CORE LOCATION

NO.	DATE	BY	REVISIONS - DESCRIPTION

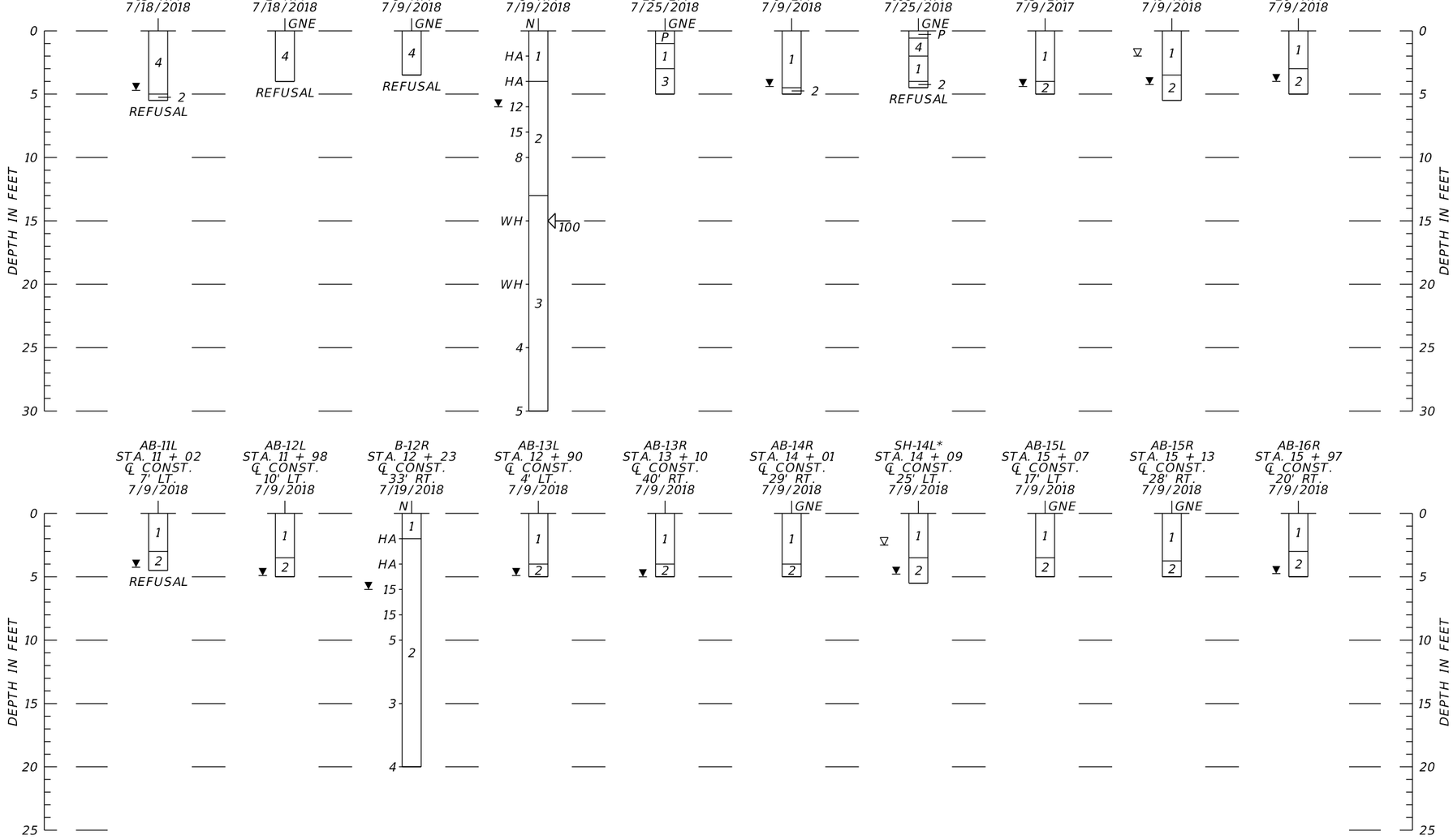
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(239) 479-8900
FORT MYERS, FLORIDA 33901

BORING LOCATION PLAN (2)

SHEET NO.
47C



LEGEND

1.	GRAY TO BROWN SAND TO SAND WITH SILT (A-3/A-2-4)
2.	GRAY TO BROWN SAND TO SILTY SAND OCCASIONALLY WITH LIMEROCK AND/OR SHELL FRAGMENTS (A-2-4)
3.	GRAY TO BROWN SILTY-CLAYEY SAND TO CLAYEY SAND (A-2-6/A-4)
4.	GRAY TO BROWN SAND WITH SILT (FILL) WITH SHELL AND LIMEROCK FRAGMENTS (A-3/A-2-4)
P	PAVEMENT AND BASE MATERIAL
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
WH	SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
GNE	GROUNDWATER NOT ENCOUNTERED
100	LOSS OF CIRCULATION OF DRILLING FLUID (%)
REFUSAL	HAND AUGER REFUSAL ON SHELL AND LIMEROCK FRAGMENTS
℄ CONST.	CENTERLINE CONSTRUCTION OF KISMET PKWY

NOTES:

1. THE BORINGS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING A HANDHELD GARMIN ETREX GPS UNIT. THE BORINGS INDICATED WITH AN "*" WERE LATER SURVEY LOCATED BY THE PROJECT SURVEYOR. STATION AND OFFSET FOR THE BORINGS WERE DETERMINED BY TIERRA USING THE FIELD AND SURVEYED COORDINATES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY AIM.
2. THE SPT BORINGS WERE PERFORMED UTILIZING AN AUTOMATIC HAMMER.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

NO.	DATE	BY	REVISIONS - DESCRIPTION

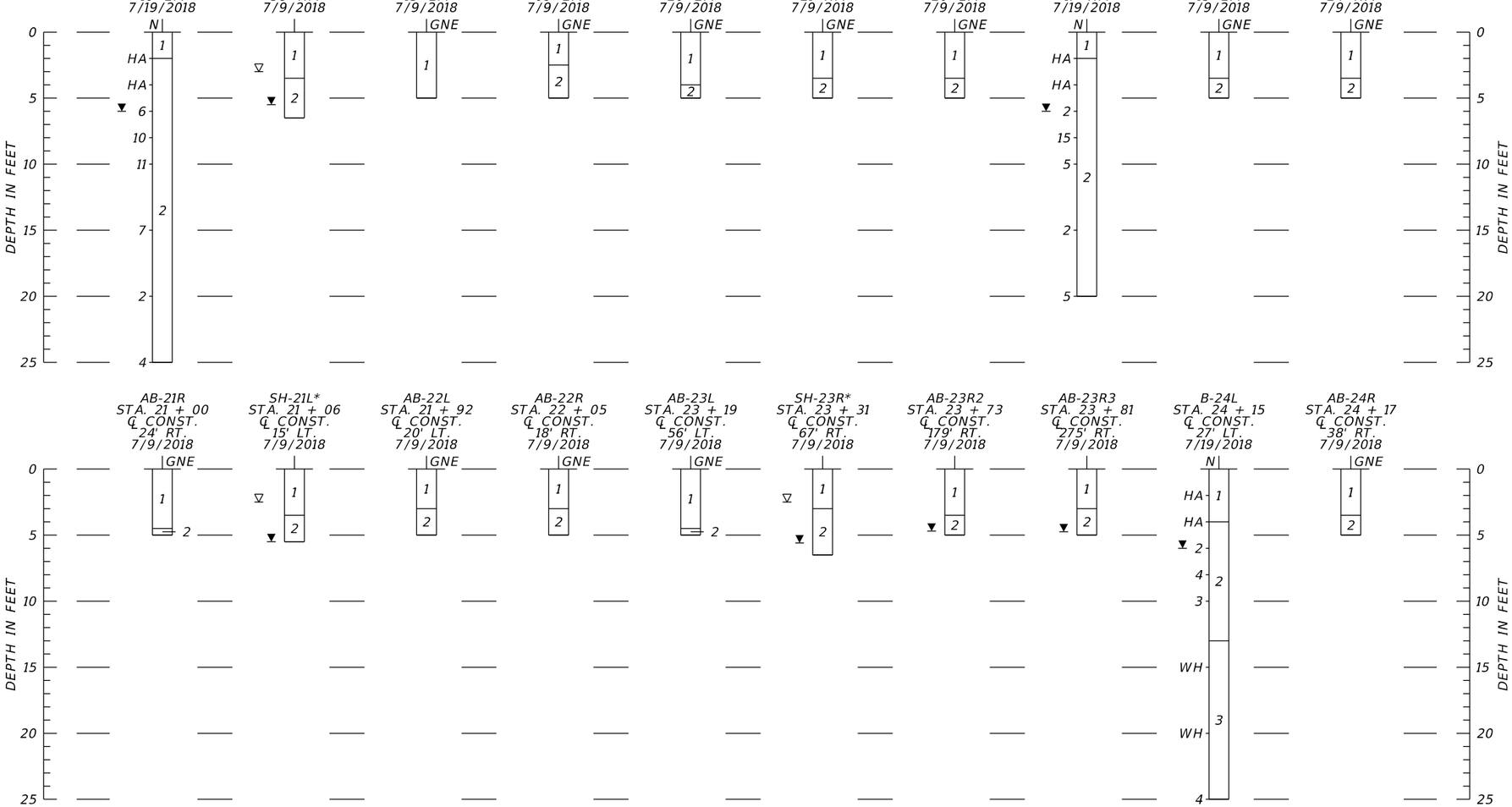
ERICK M. FREDERICK, P.E.
P.E. LICENSE NUMBER 63920
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION NO. 6486

APPROVED BY:
ERICK M. FREDERICK, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 63920

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY SOIL PROFILES (1)

SHEET NO. 47D



LEGEND

1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3/A-2-4)
2. GRAY TO BROWN SAND TO SILTY SAND OCCASIONALLY WITH LIMEROCK AND/OR SHELL FRAGMENTS (A-2-4)
3. GRAY TO BROWN SILTY-CLAYEY SAND TO CLAYEY SAND (A-2-6/A-4)
4. GRAY TO BROWN SAND WITH SILT (FILL) WITH SHELL AND LIMEROCK FRAGMENTS (A-3/A-2-4)

P — PAVEMENT AND BASE MATERIAL

A-3 — AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

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

HA — HAND AUGERED TO VERIFY UTILITY CLEARANCE

WH — SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

▼ — GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

▽ — ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

GNE — GROUNDWATER NOT ENCOUNTERED

100 — LOSS OF CIRCULATION OF DRILLING FLUID (%)

REFUSAL — HAND AUGER REFUSAL ON SHELL AND LIMEROCK FRAGMENTS

℄ CONST. — CENTERLINE CONSTRUCTION OF KISMET PKWY

NOTES:

1. THE BORINGS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING A HANDHELD GARMIN ETREX GPS UNIT. THE BORINGS INDICATED WITH AN "*" WERE LATER SURVEY LOCATED BY THE PROJECT SURVEYOR. STATION AND OFFSET FOR THE BORINGS WERE DETERMINED BY TIERRA USING THE FIELD AND SURVEYED COORDINATES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY AIM.
2. THE SPT BORINGS WERE PERFORMED UTILIZING AN AUTOMATIC HAMMER.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

NO.	DATE	BY	REVISIONS - DESCRIPTION

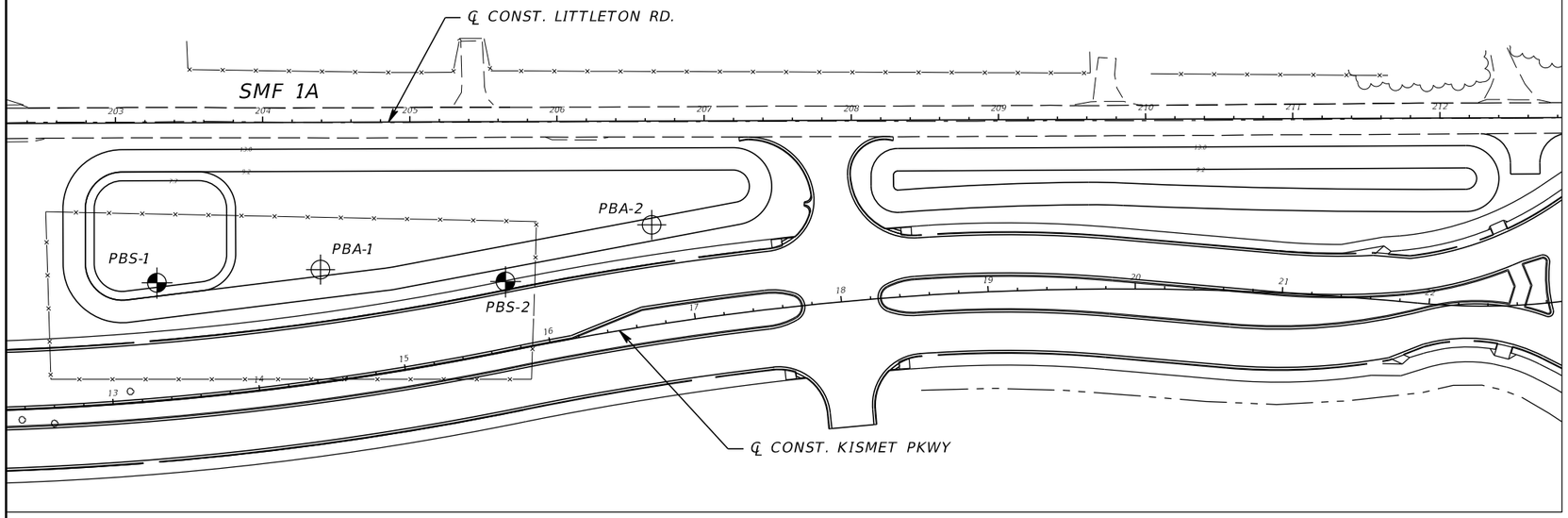
ERICK M. FREDERICK, P.E.
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7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
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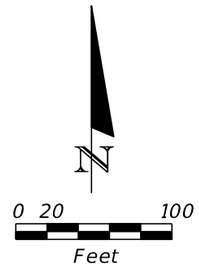
PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

ROADWAY SOIL PROFILES (2)

SHEET NO. 47E



BORING LOCATION PLAN



LEGEND

1.	GRAY TO BROWN SAND TO SAND WITH SILT (A-3/A-2-4)
2.	GRAY TO BROWN SAND TO SILTY SAND OCCASIONALLY WITH LIMEROCK AND/OR SHELL FRAGMENTS (A-2-4)
3.	GRAY TO BROWN SILTY-CLAYEY SAND TO CLAYEY SAND (A-2-6/A-4)
4.	GRAY TO BROWN SAND WITH SILT (FILL) WITH SHELL AND LIMEROCK FRAGMENTS (A-3/A-2-4)
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD 29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
	APPROXIMATE SPT BORING LOCATION
	APPROXIMATE AUGER BORING LOCATION
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
℄ CONST.	CENTERLINE CONSTRUCTION OF KISMET PKWY

NOTES:

1. THE BORINGS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING A HANDHELD GARMIN ETREX GPS UNIT. THE BORINGS WERE LATER SURVEY LOCATED BY THE PROJECT SURVEYOR. STATION AND OFFSET FOR THE BORINGS WERE DETERMINED BY TIERRA USING THE FIELD AND SURVEYED COORDINATES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY AIM.
2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER IN FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER IN THE PROJECT VICINITY IS NOT AVAILABLE DUE TO LACK OF WATER-LEVEL DATA IN THIS AREA FROM WELLS OPEN ONLY TO THE UPPER FLORIDAN AQUIFER. FOR THE AREA GENERALLY SOUTH OF LATITUDE 27°N, NO INTERPRETATION WAS MADE BECAUSE OF A LACK OF CONTROL POINTS AND THE COMPLEXITY OF THE FLOW SYSTEM, WHICH INCLUDES SEVERAL PERMEABLE ZONES. ARTESIAN FLOW CONDITIONS WERE NOT ENCOUNTERED DURING THE FIELD GEOTECHNICAL EXPLORATION.

BOR # PBS-1
STA. 13+37
REF. ℄ CONST.
OFF. 80' LT
ELEV. 13.2
DATE 7/26/2018
DRILLER A. JACKSON
HAMMER AUTOMATIC
RIG D-25

-200=28
NMC=22
LL=32
PI=18

N: HA, HA, 2, 10, 7, 3, 3
1, 3, 2

BORING TERMINATED AT ELEVATION -6.8 FT (NAVD 88)

BOR # PBA-1
STA. 14+53
REF. ℄ CONST.
OFF. 76' LT
ELEV. 13.1
DATE 7/19/2018

1, 2

BORING TERMINATED AT ELEVATION 7.1 FT (NAVD 88)

BOR # PBS-2
STA. 15+79
REF. ℄ CONST.
OFF. 47' LT
ELEV. 12.9
DATE 7/26/2018
DRILLER A. JACKSON
HAMMER AUTOMATIC
RIG D-25

N: HA, HA, 3, 8, 7, 3, 4
1, 2, 1, 2

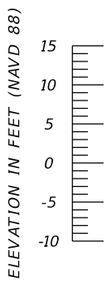
BORING TERMINATED AT ELEVATION -7.1 FT (NAVD 88)

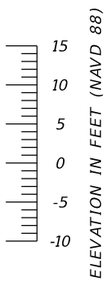
BOR # PBA-2
STA. 16+80
REF. ℄ CONST.
OFF. 67' LT
ELEV. 12.7
DATE 7/19/2018

-200=3

1, 2

BORING TERMINATED AT ELEVATION 7.7 FT (NAVD 88)





	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

NO.	DATE	BY	REVISIONS - DESCRIPTION

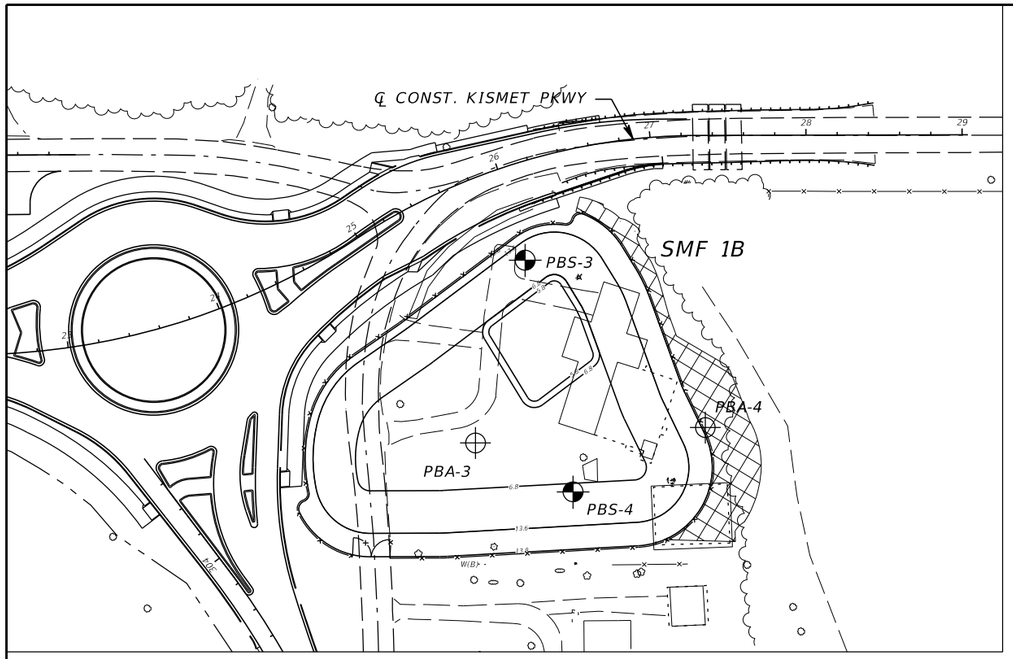
ERICK M. FREDERICK, P.E.
P.E. LICENSE NUMBER 63920
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION NO. 6486

APPROVED BY:
ERICK M. FREDERICK, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 63920

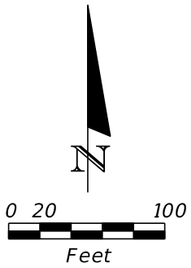
PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

POND SOIL SURVEY (1)

SHEET NO. 48



BORING LOCATION PLAN

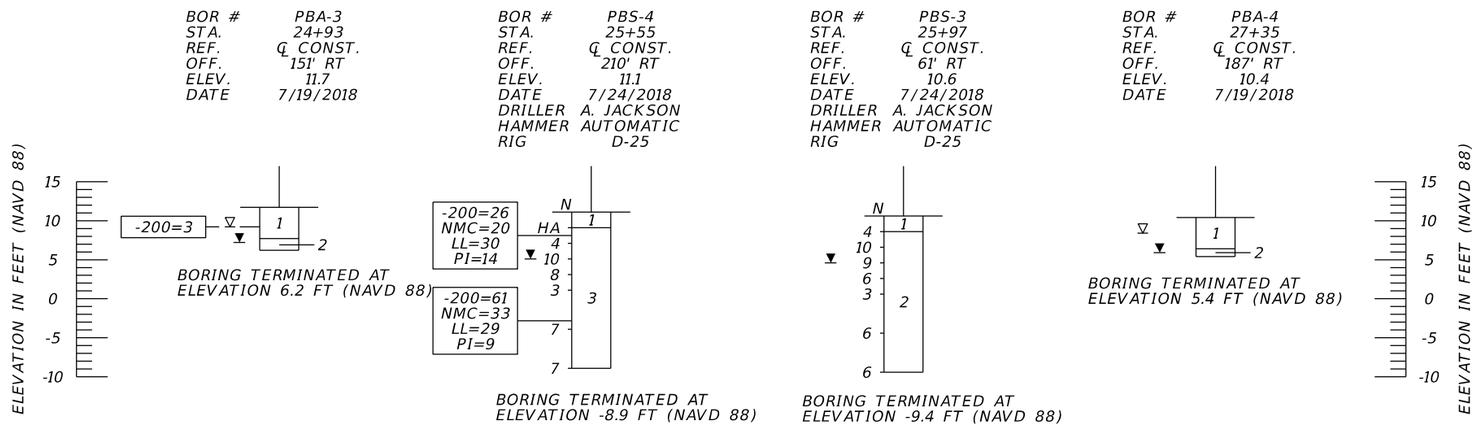


LEGEND

1.	GRAY TO BROWN SAND TO SAND WITH SILT (A-3/A-2-4)
2.	GRAY TO BROWN SAND TO SILTY SAND OCCASIONALLY WITH LIMEROCK AND/OR SHELL FRAGMENTS (A-2-4)
3.	GRAY TO BROWN SILTY-CLAYEY SAND TO CLAYEY SAND (A-2-6/A-4)
4.	GRAY TO BROWN SAND WITH SILT (FILL) WITH SHELL AND LIMEROCK FRAGMENTS (A-3/A-2-4)
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N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD 29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
	APPROXIMATE SPT BORING LOCATION
	APPROXIMATE AUGER BORING LOCATION
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
℄ CONST.	CENTERLINE CONSTRUCTION OF KISMET PKWY

NOTES:

1. THE BORINGS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING A HANDHELD GARMIN ETREX GPS UNIT. THE BORINGS WERE LATER SURVEY LOCATED BY THE PROJECT SURVEYOR. STATION AND OFFSET FOR THE BORINGS WERE DETERMINED BY TIERRA USING THE FIELD AND SURVEYED COORDINATES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY AIM.
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	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
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SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

NO.	DATE	BY	REVISIONS - DESCRIPTION

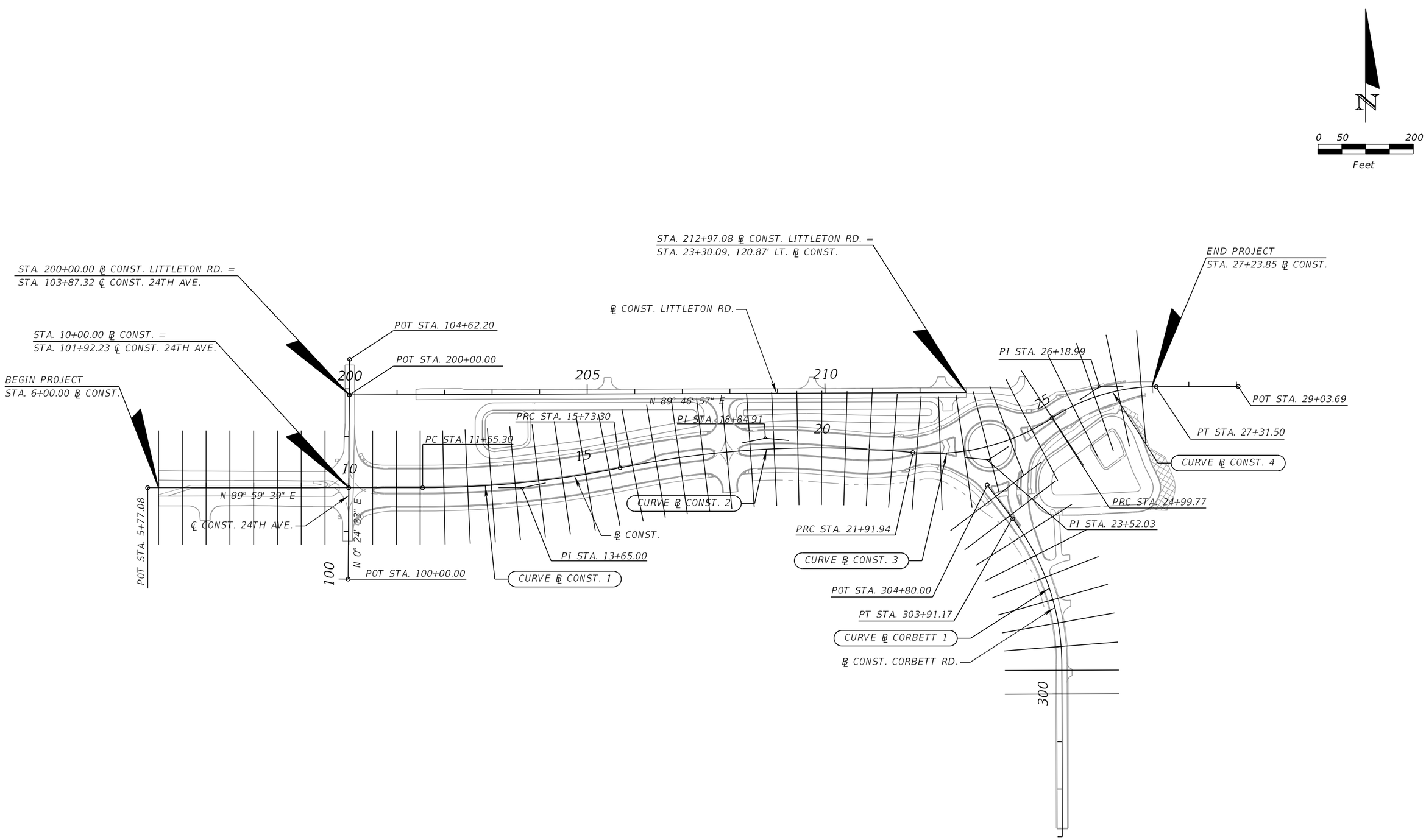
ERICK M. FREDERICK, P.E.
P.E. LICENSE NUMBER 63920
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION NO. 6486

APPROVED BY:
ERICK M. FREDERICK, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 63920

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

POND SOIL SURVEY (2)

SHEET NO. 49



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

NO.	DATE	BY	REVISIONS - DESCRIPTION

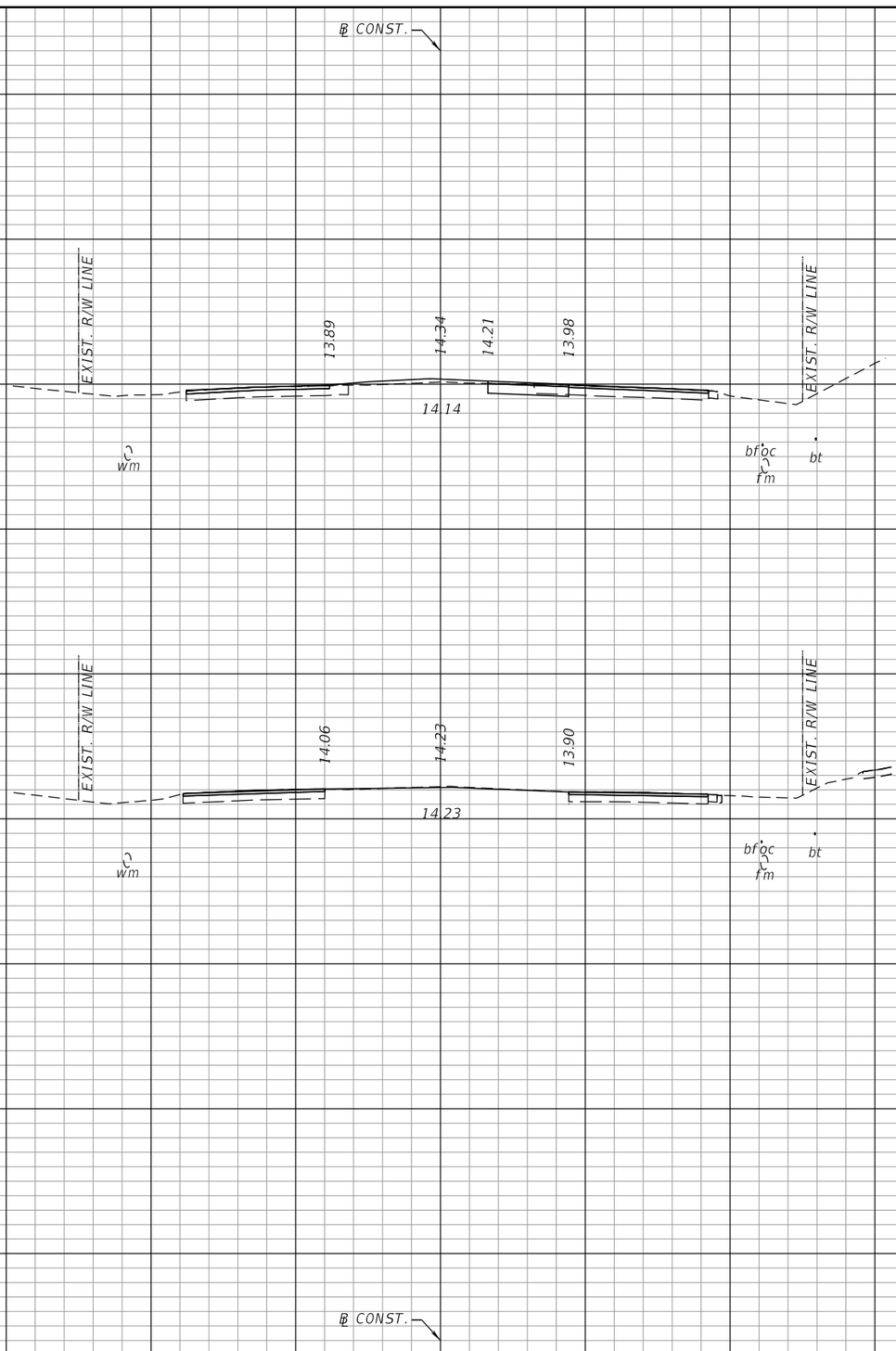
AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROSS SECTION PATTERN

SHEET NO. 50



	Regular Exc.		Embankment	
	A	V	A	V
6+50.00	8.3		4.4	
		7.7		4.1
6+00.00	0.0		0.0	

BEGIN PROJECT
BEGIN CONSTRUCTION
BEGIN EARTHWORK
BEGIN MILLING AND RESURFACING
STA. 6+00.00

SCALE 1"=20' HORIZ.
1"=10' VERT.

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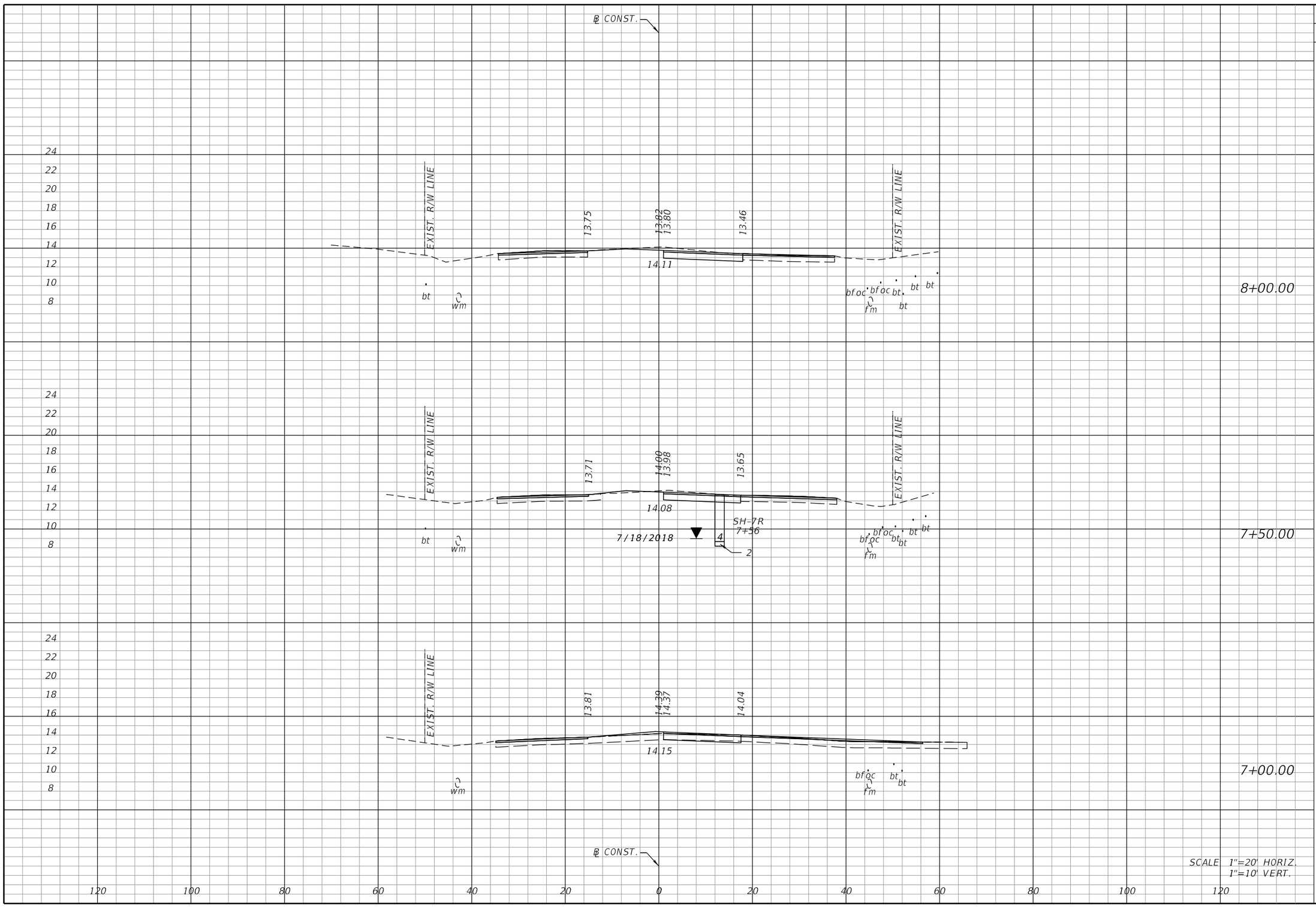
AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
FAX (813) 664-1899
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO. 51



Regular Exc.		Embankment	
A	V	A	V
18.2		0	
	30.8		1.2
15.1		1.3	
	19.6		3.1
6.1		2.0	
	13.3		5.9

8+00.00

7+50.00

7+00.00

SCALE 1"=20' HORIZ.
1"=10' VERT.

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NO.	DATE	BY	REVISIONS - DESCRIPTION

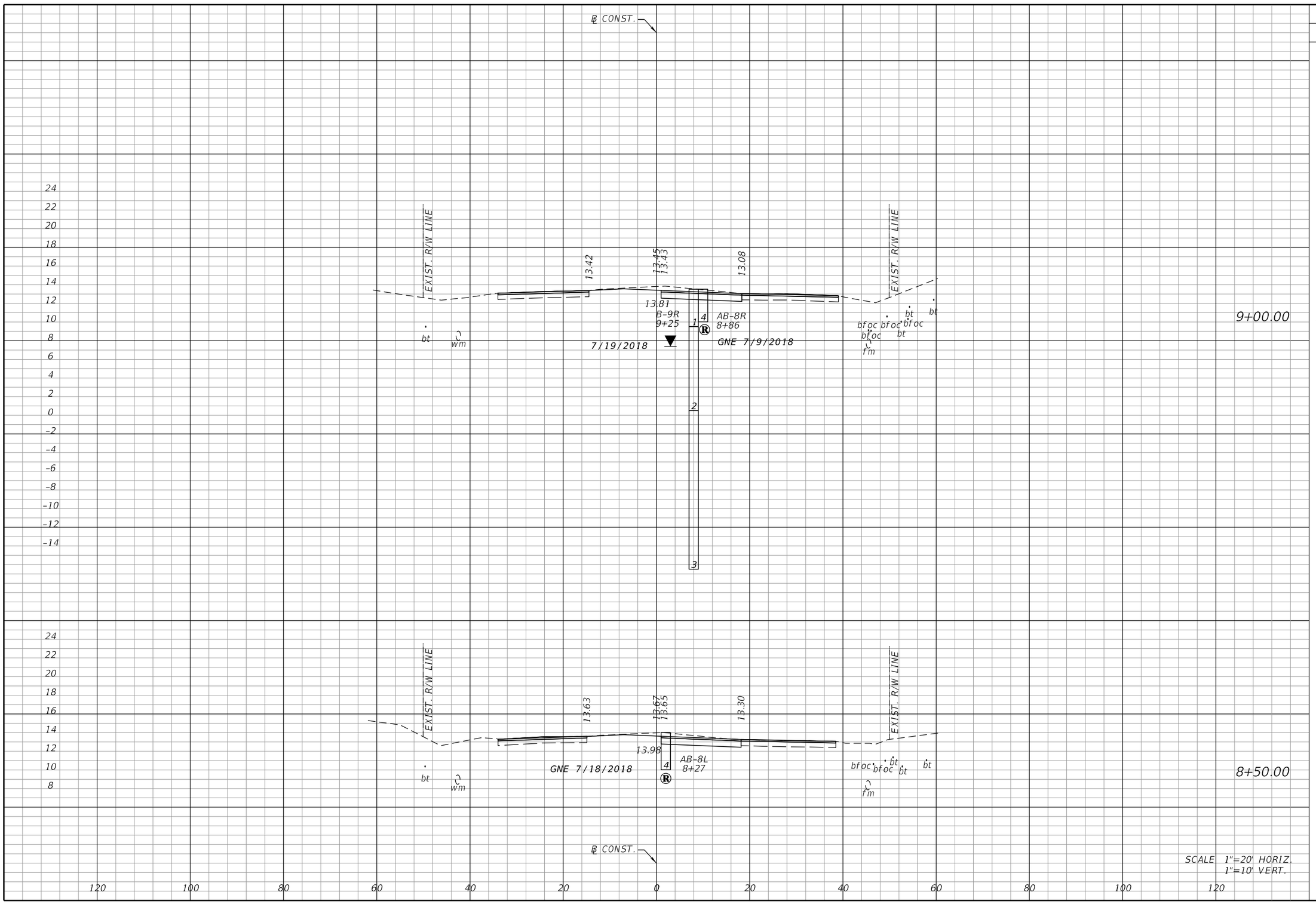
AIM ENGINEERING & SURVEYING, INC.
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO.
52



	Regular Exc.		Embankment	
	A	V	A	V
9+00.00	21.5		0	
		37.8		0
8+50.00	19.4		0	
		34.8		0

SCALE 1"=20' HORIZ.
1"=10' VERT.

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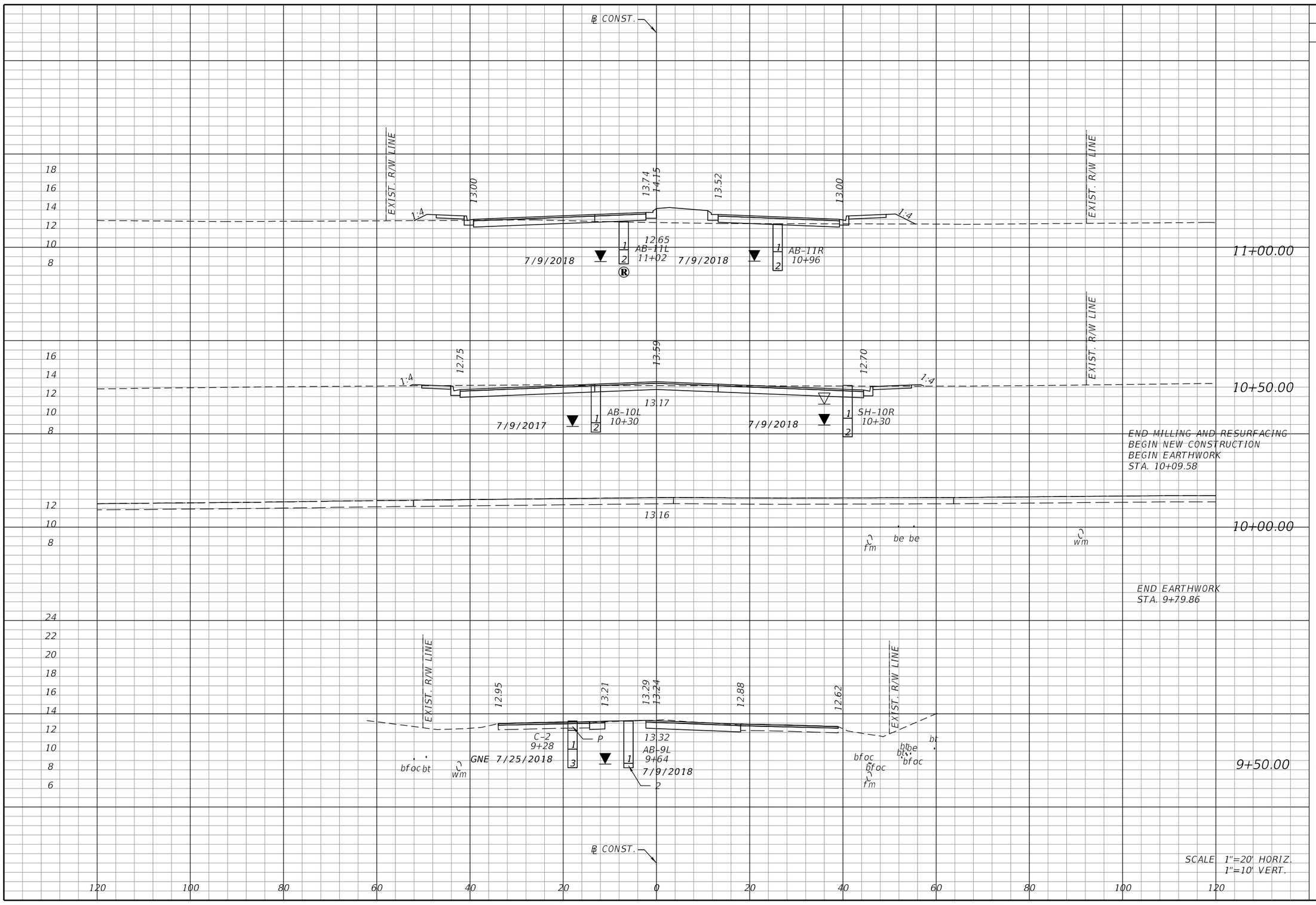
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TAMPA, FLORIDA 33619
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO. 53



END MILLING AND RESURFACING
BEGIN NEW CONSTRUCTION
BEGIN EARTHWORK
STA. 10+09.58

END EARTHWORK
STA. 9+79.86

SCALE 1"=20' HORIZ.
1"=10' VERT.

	Regular Exc.		Embankment	
	A	V	A	V
11+00.00	16.8		32.6	
		91.8		30.7
10+50.00	82.3		0.6	
		61.6		0.4
	0		0	
10+00.00				
	0		0	
		11.1		0.2
9+50.00	20.0		0.4	
		38.4		0.4

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NO.	DATE	BY	REVISIONS - DESCRIPTION

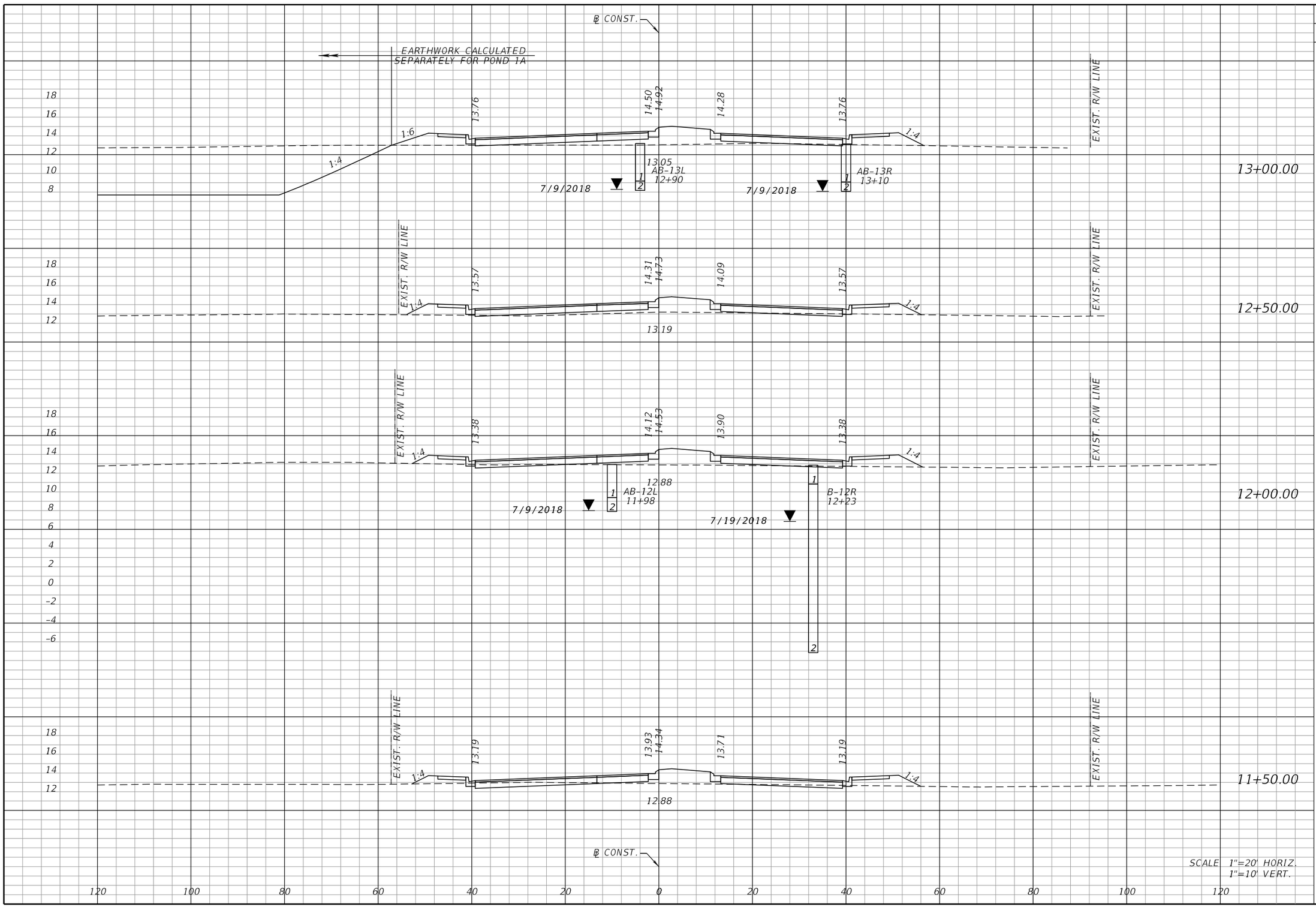
AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
FAX (813) 664-1899
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO.
54



	Regular Exc.		Embankment	
	A	V	A	V
13+00.00	1.2		61.1	
		3.7		100.4
12+50.00	2.8		47.3	
		7.1		84.5
12+00.00	4.9		44.0	
		17.3		72.7
11+50.00	13.8		34.5	
		28.3		62.1

SCALE 1"=20' HORIZ.
1"=10' VERT.

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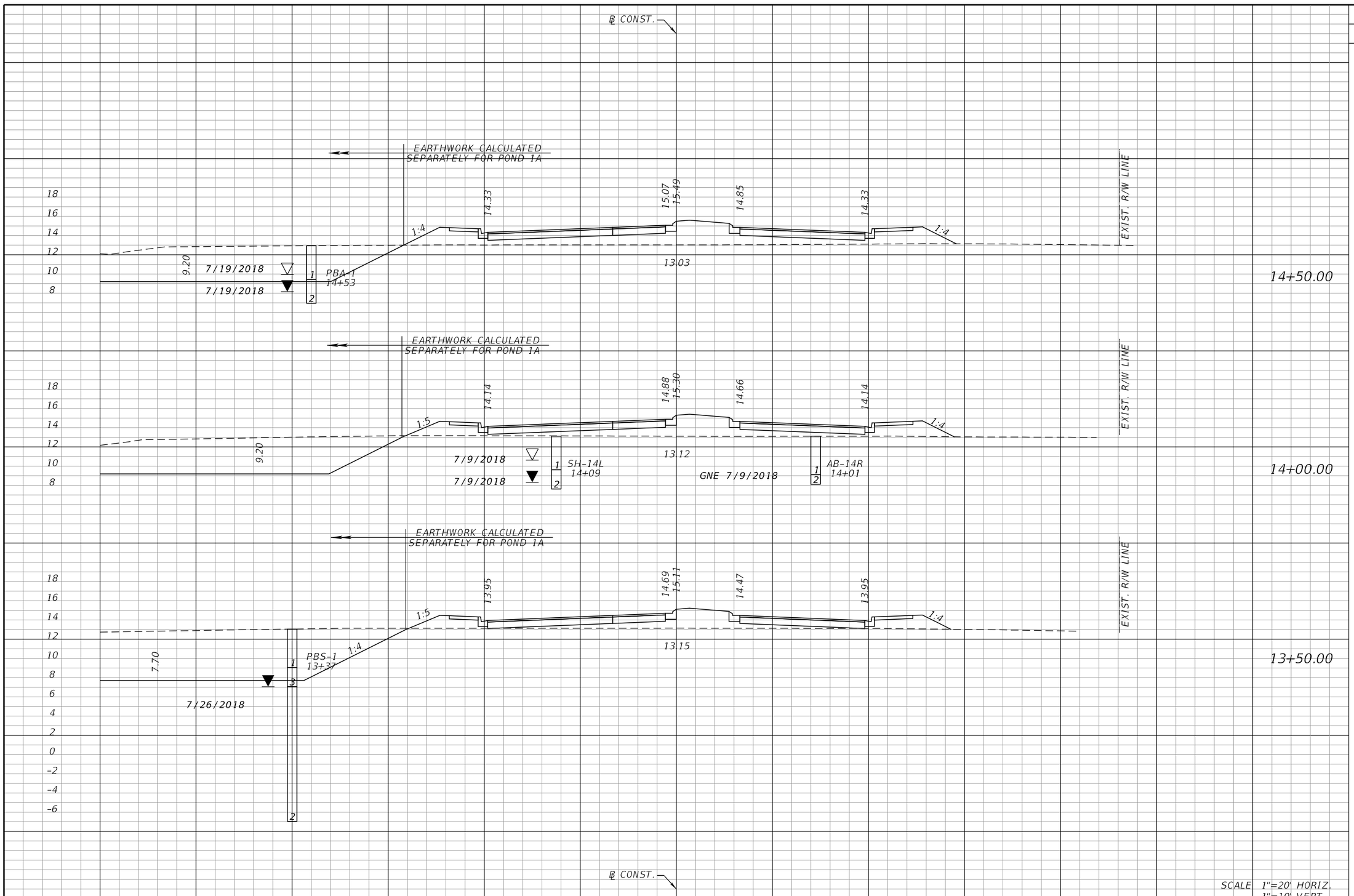
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FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO.
55



	Regular Exc.		Embankment	
	A	V	A	V
14+50.00	0		123.3	
		0.1		200.7
14+00.00	0.1		93.5	
		0.1		153.1
13+50.00	0		71.9	
		1.1		123.1

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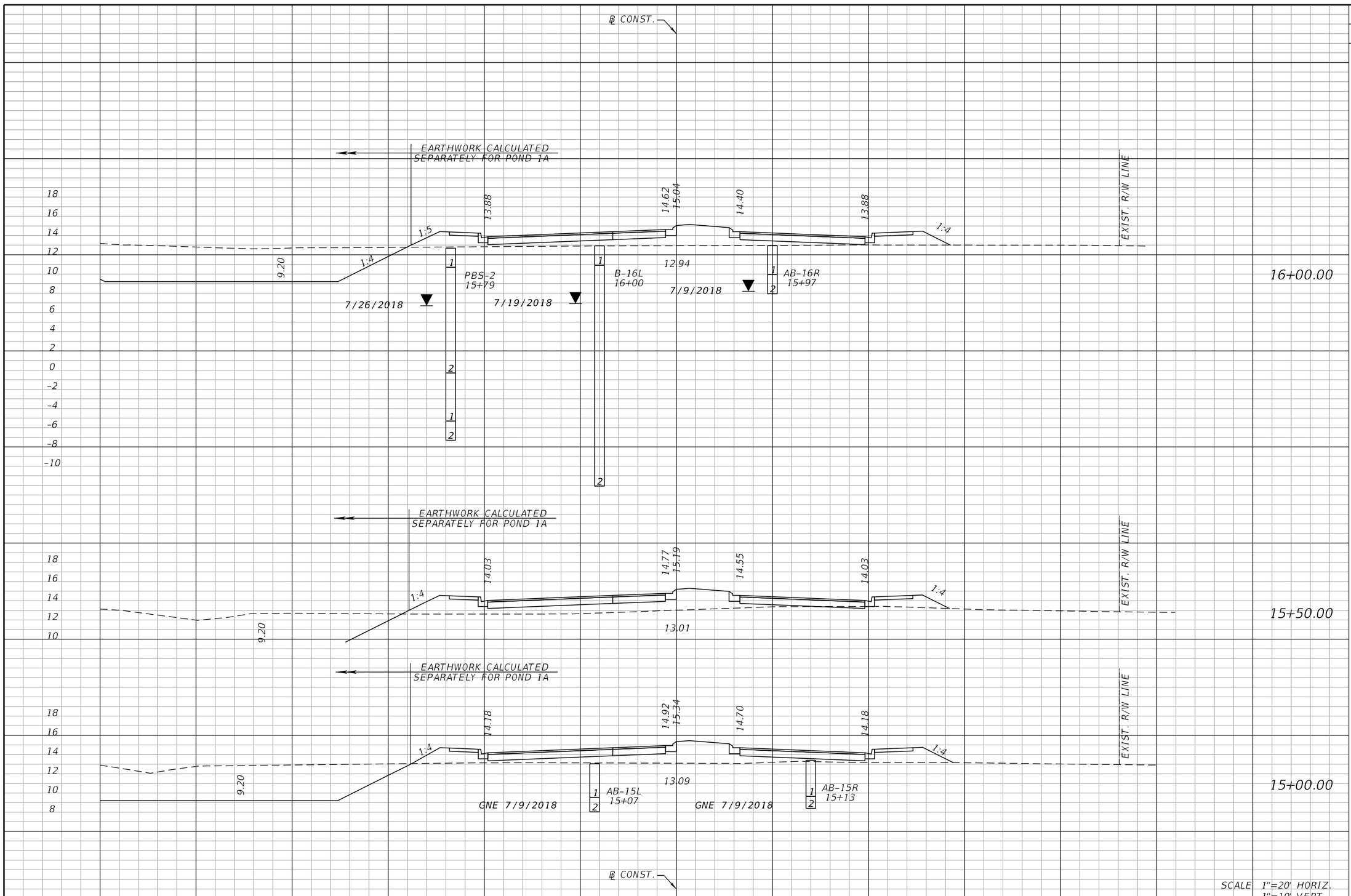
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CROSS SECTIONS

SHEET NO. 56



	Regular Exc.		Embankment	
	A	V	A	V
16+00.00	0		86.4	
		1.0		169.0
15+50.00	1.1		96.1	
		1.0		177.3
15+00.00	0		95.4	
		0		202.5

SCALE 1"=20' HORIZ.
1"=10' VERT.

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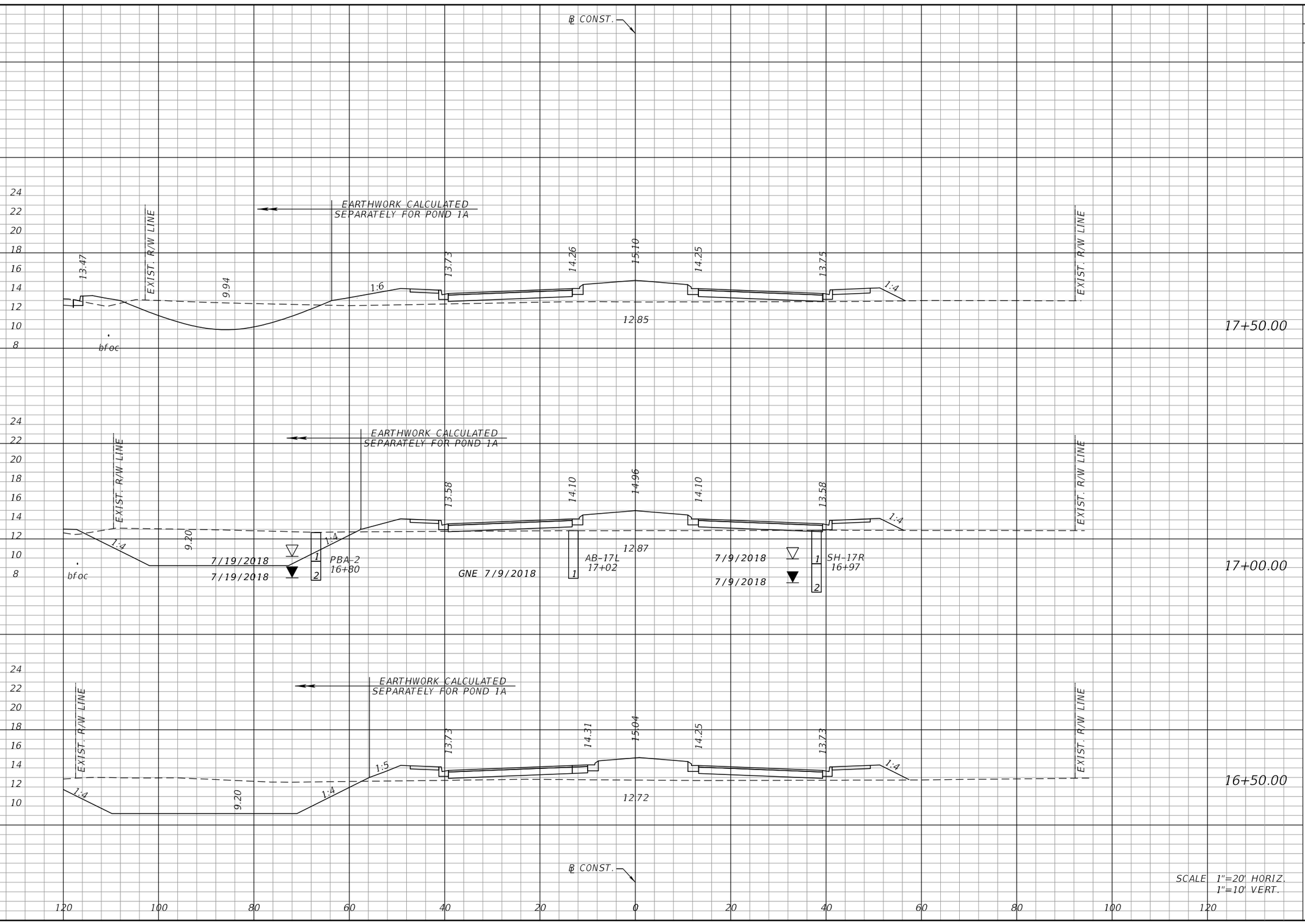
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CROSS SECTIONS

SHEET NO. 57



	Regular Exc.		Embankment	
	A	V	A	V
17+50.00	0		107.1	
		0.6		172.6
17+00.00	0.7		79.3	
		0.6		170.9
16+50.00	0		105.3	
		0		177.5

SCALE 1"=20' HORIZ.
1"=10' VERT.

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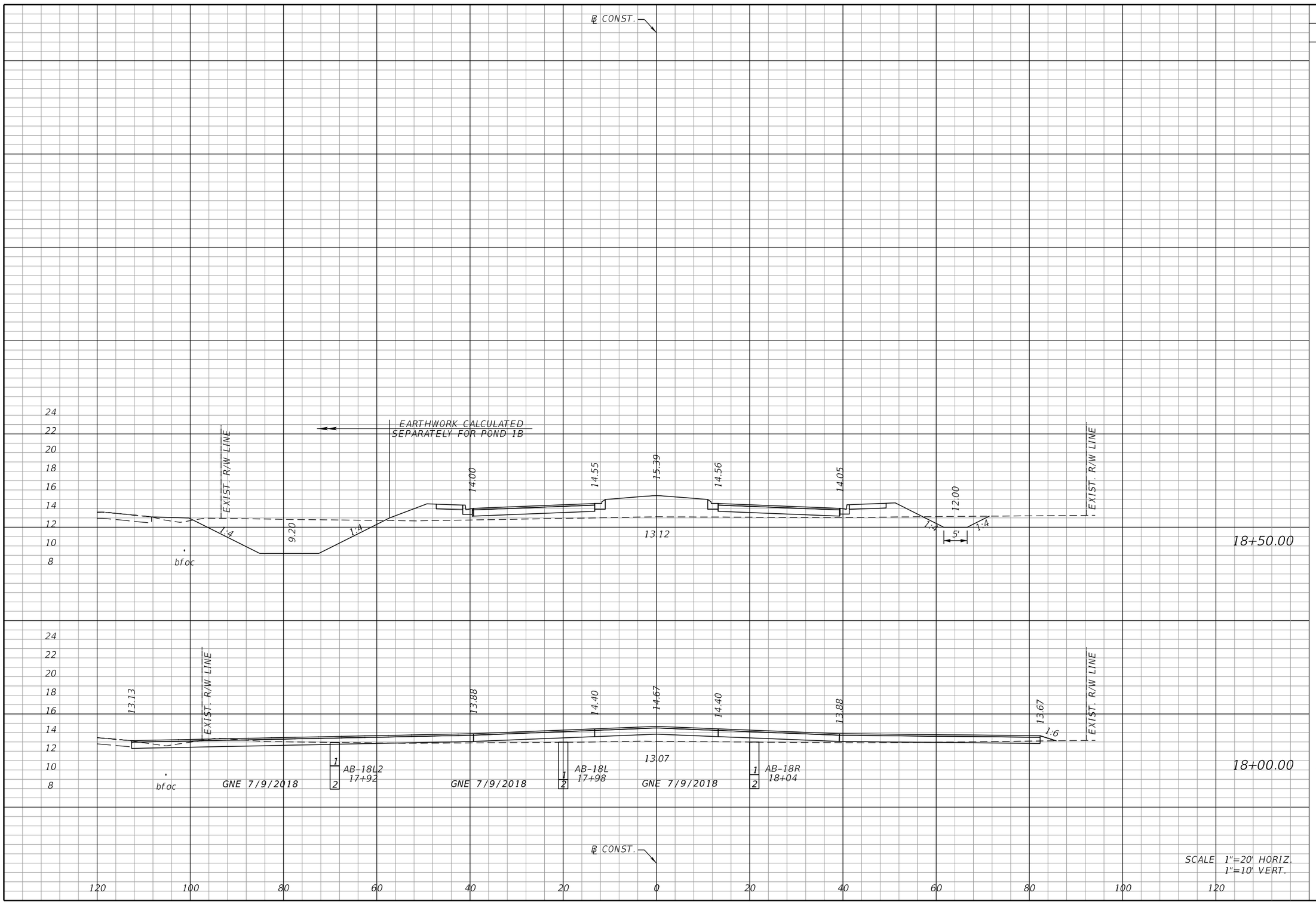
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CROSS SECTIONS

SHEET NO. 58



Regular Exc.		Embankment	
A	V	A	V
18+50.00	11.2		110.4
	30.4		140.0
18+00.00	21.6		40.8
	20.0		136.9

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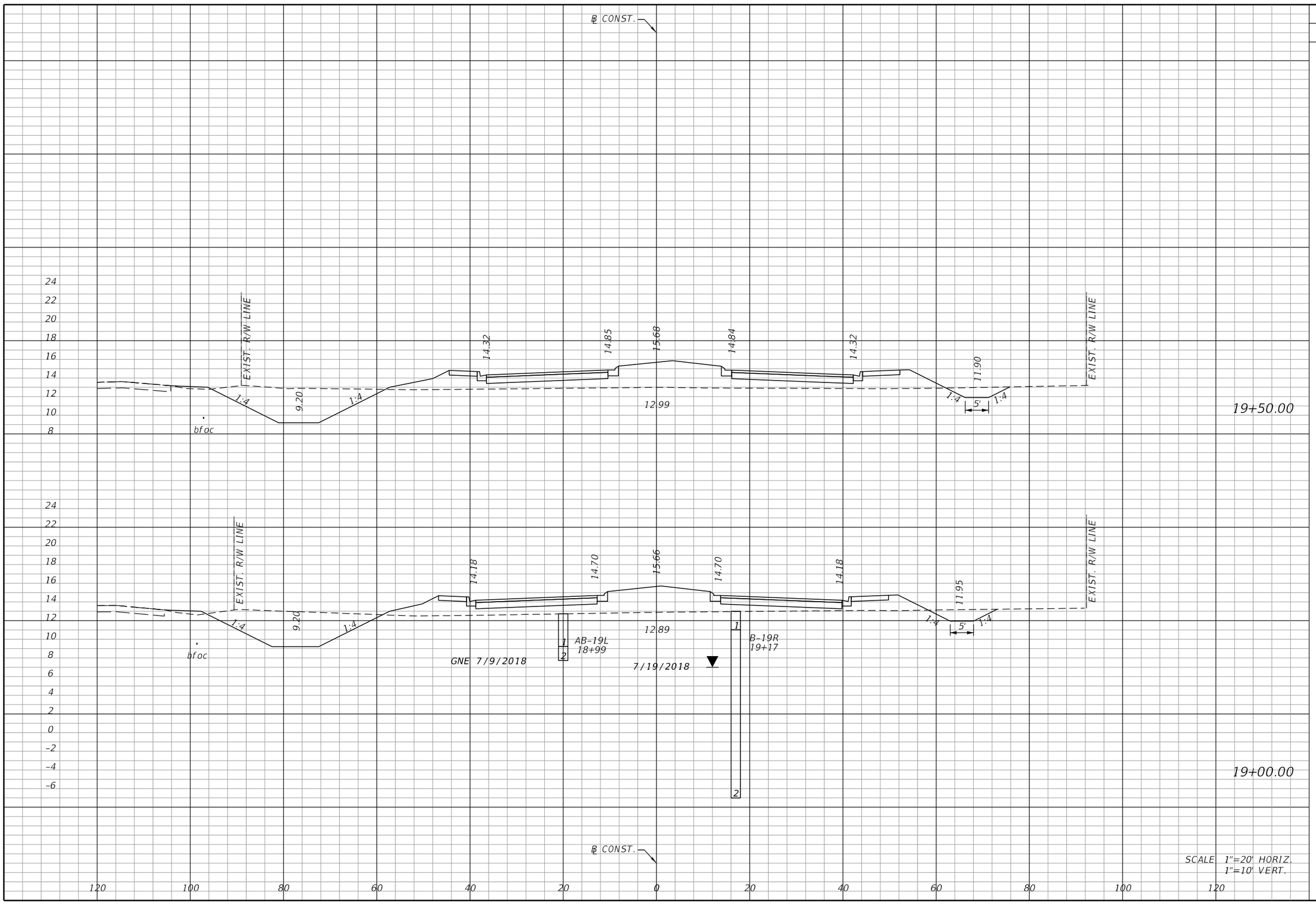
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CROSS SECTIONS

SHEET NO. 59



	Regular Exc.		Embankment	
	A	V	A	V
19+50.00	10.1		152.0	
		20.5		268.7
19+00.00	12.1		138.2	
		21.5		230.2

SCALE 1"=20' HORIZ.
1"=10' VERT.

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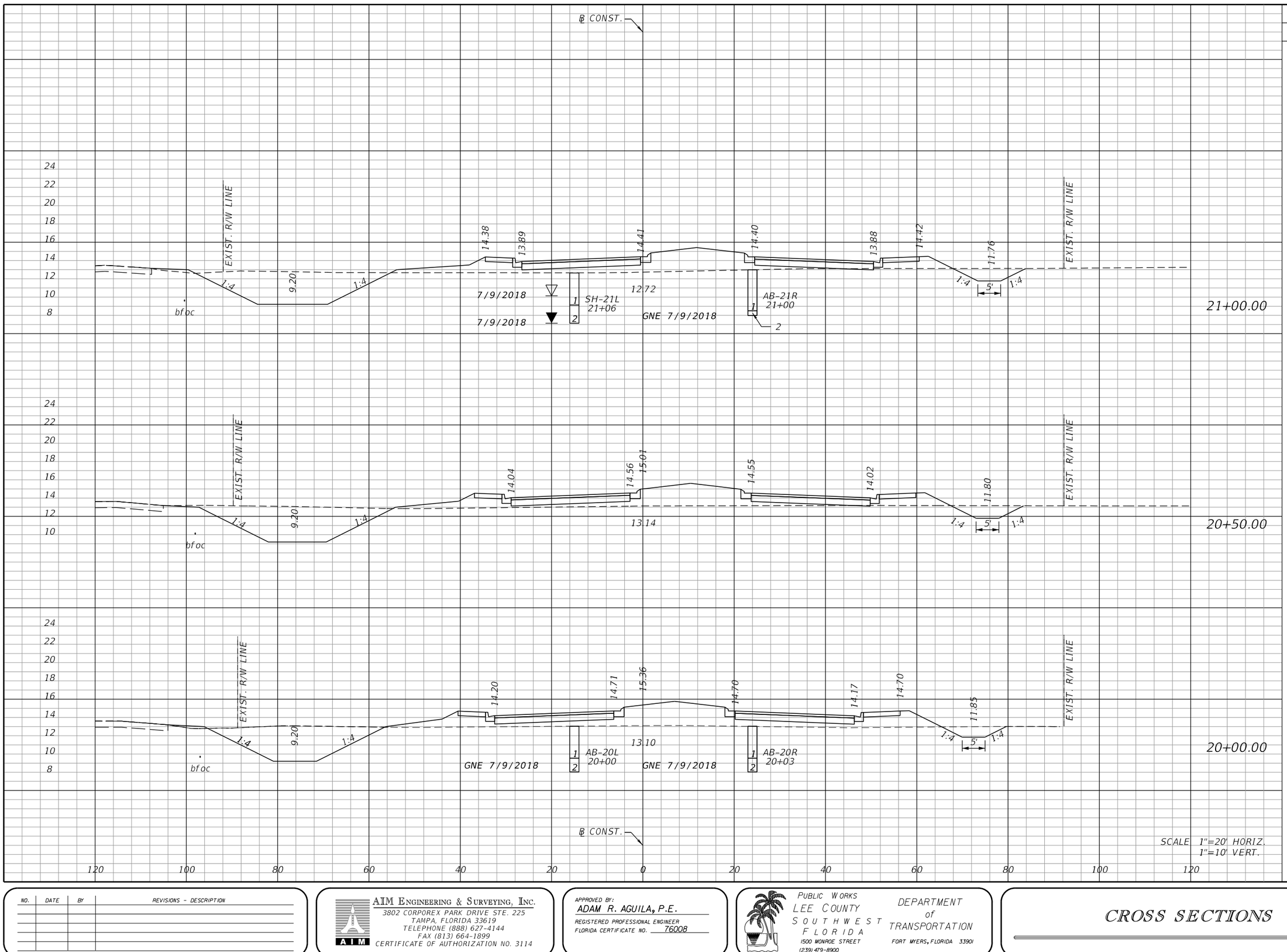
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CROSS SECTIONS

SHEET NO. 60



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
21+00.00	15.0		103.9	
		27.3		185.1
20+50.00	14.6		96.0	
		23.6		204.5
20+00.00	10.9		124.9	
		19.4		256.3

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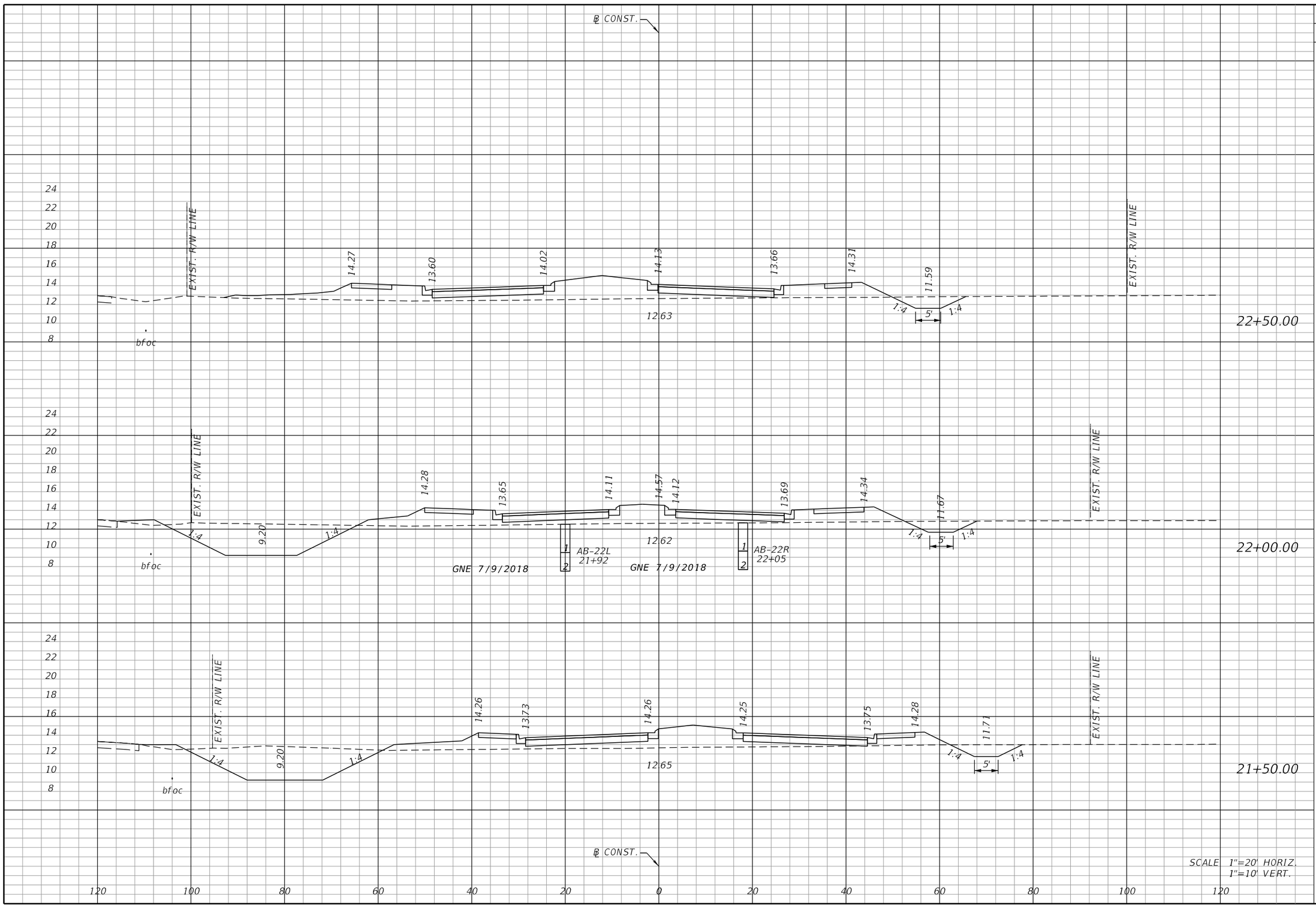
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CROSS SECTIONS

SHEET NO. 61



Regular Exc.		Embankment	
A	V	A	V
13.0		130.8	
	23.3		214.9
12.2		101.3	
	23.3		186.4
13.0		100.1	
	25.9		188.9

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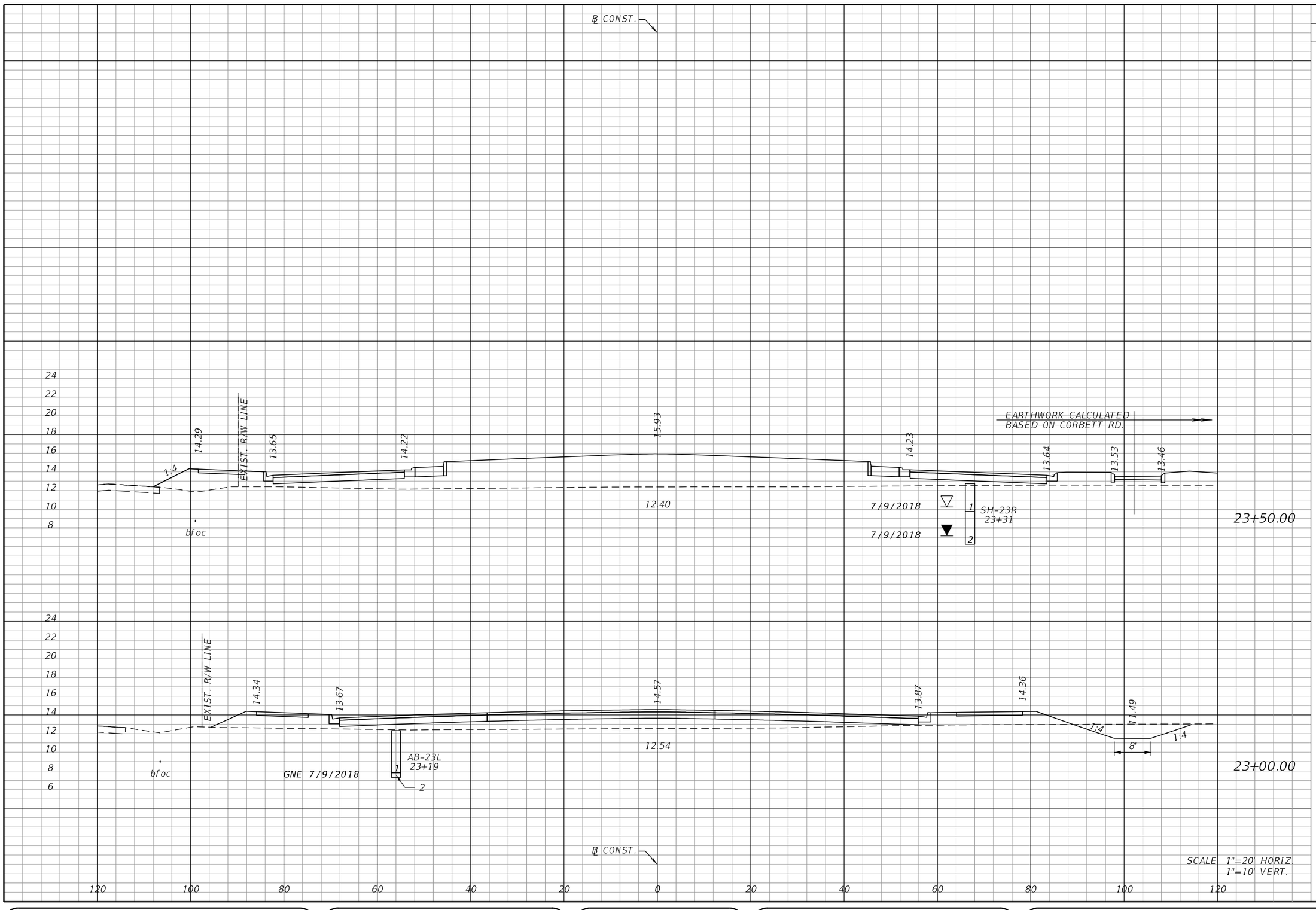
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of
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FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO.
62



Regular Exc.		Embankment	
A	V	A	V
0		401.9	
	23.7		520.0
25.6		159.7	
	35.7		269.0

23+50.00

23+00.00

NO.	DATE	BY	REVISIONS - DESCRIPTION

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TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
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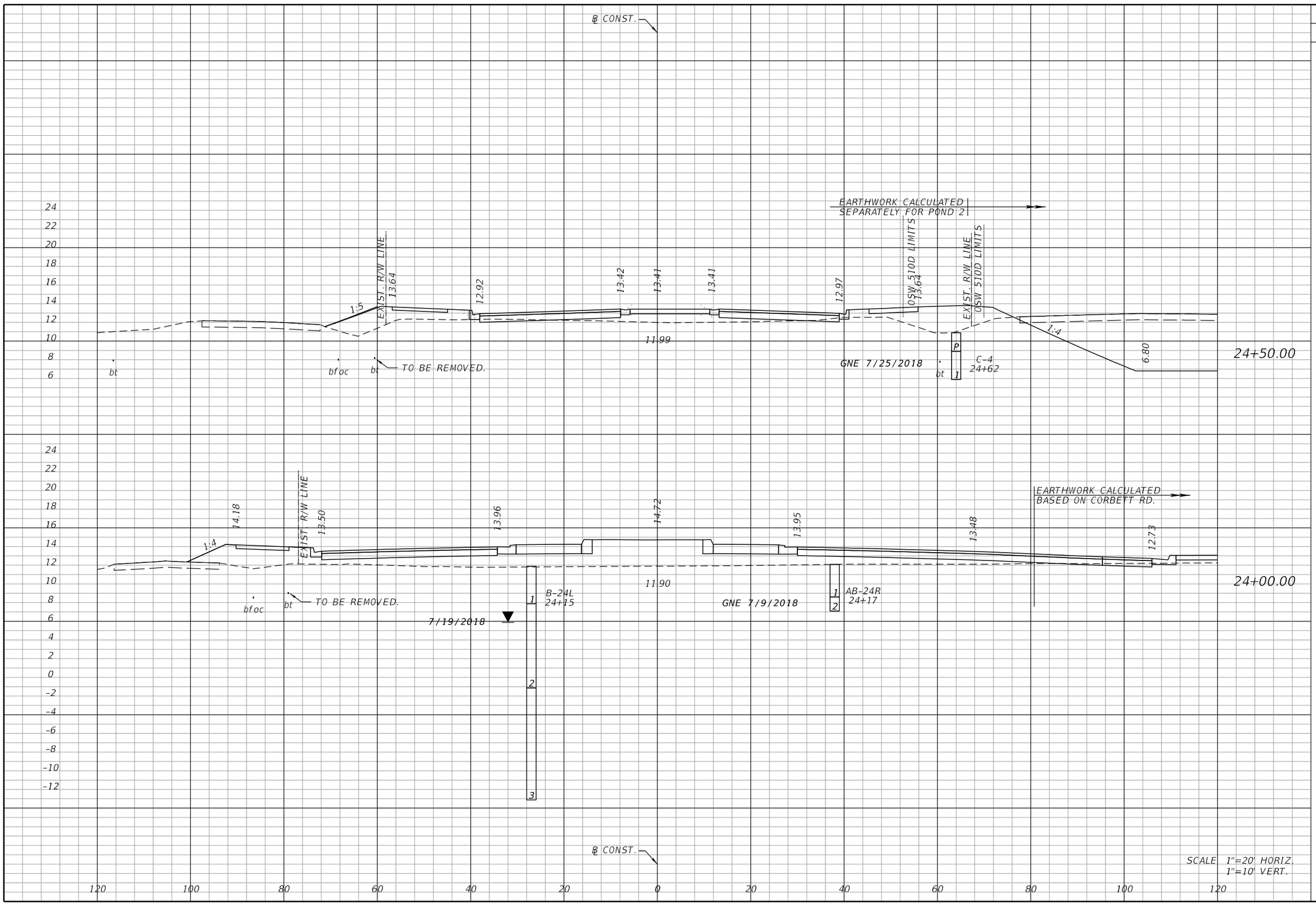
PUBLIC WORKS
LEE COUNTY
SOUTHWEST
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of
TRANSPORTATION
1500 MONROE STREET
(239) 479-8900
FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO.
63

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Regular Exc.		Embankment	
A	V	A	V
4.5		106.2	
	4.1		310.9
0		229.6	
	0		584.7

24+50.00

24+00.00

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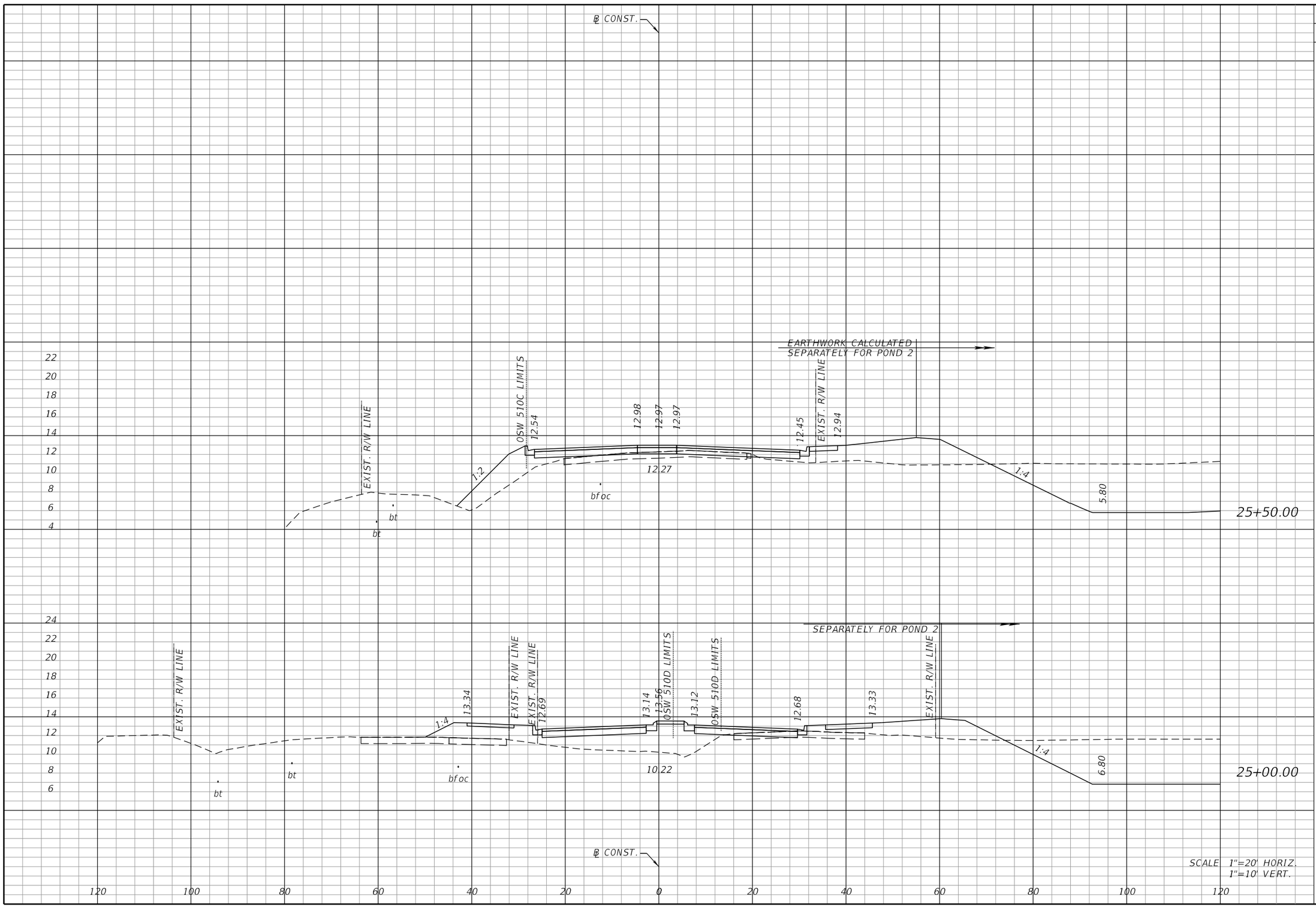
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FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO. 64



Regular Exc.		Embankment	
A	V	A	V
25+50.00	0.3		91.6	
		0.4		202.6
25+00.00	0.2		127.2	
		4.3		216.1

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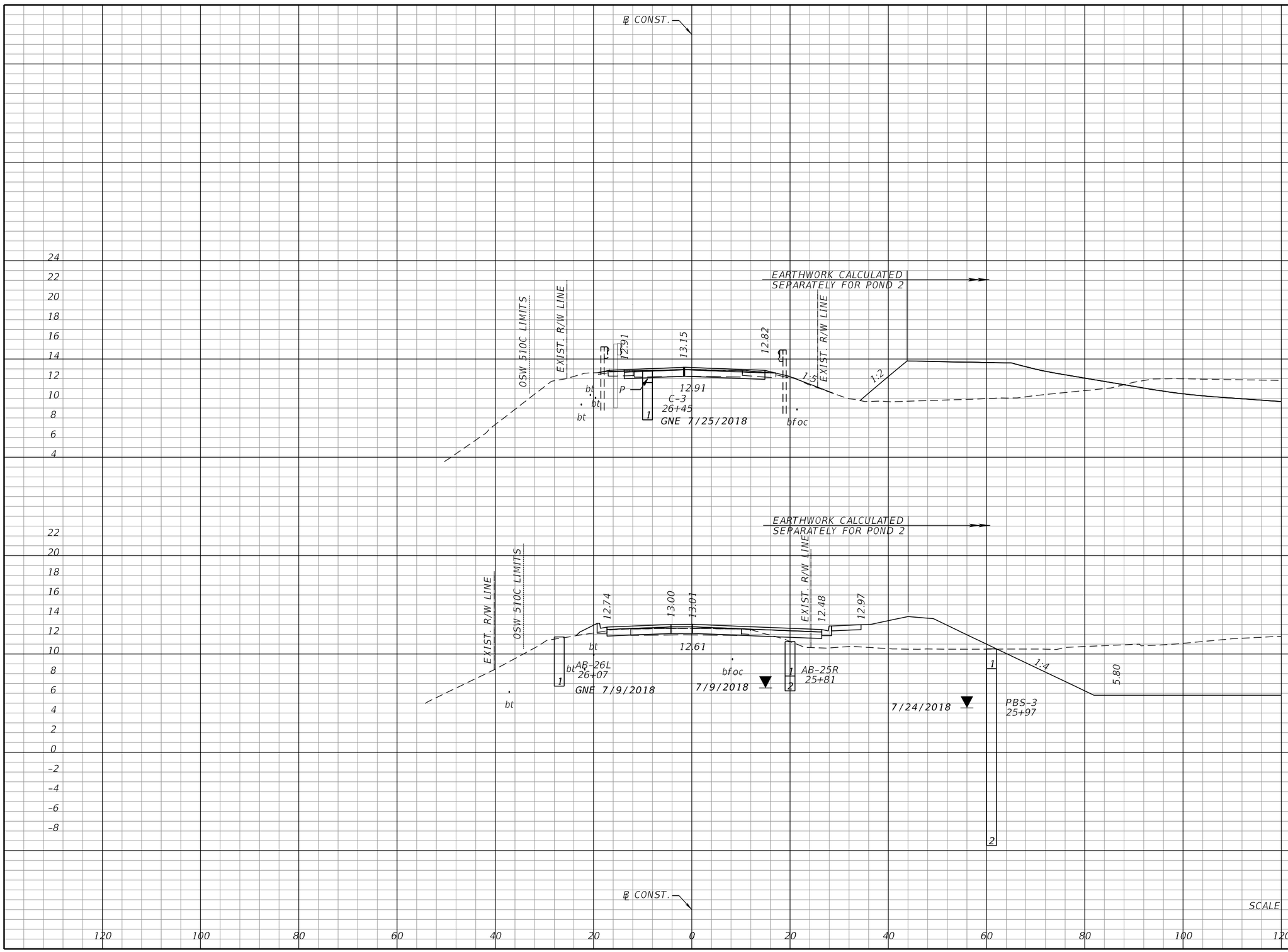
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CROSS SECTIONS

SHEET NO.
65



	Regular Exc.		Embankment	
	A	V	A	V
26+50.00	3.5		0.3	
		8.0		43.8
26+00.00	5.1		47.0	
		5.0		128.3

SCALE 1"=20' HORIZ.
1"=10' VERT.

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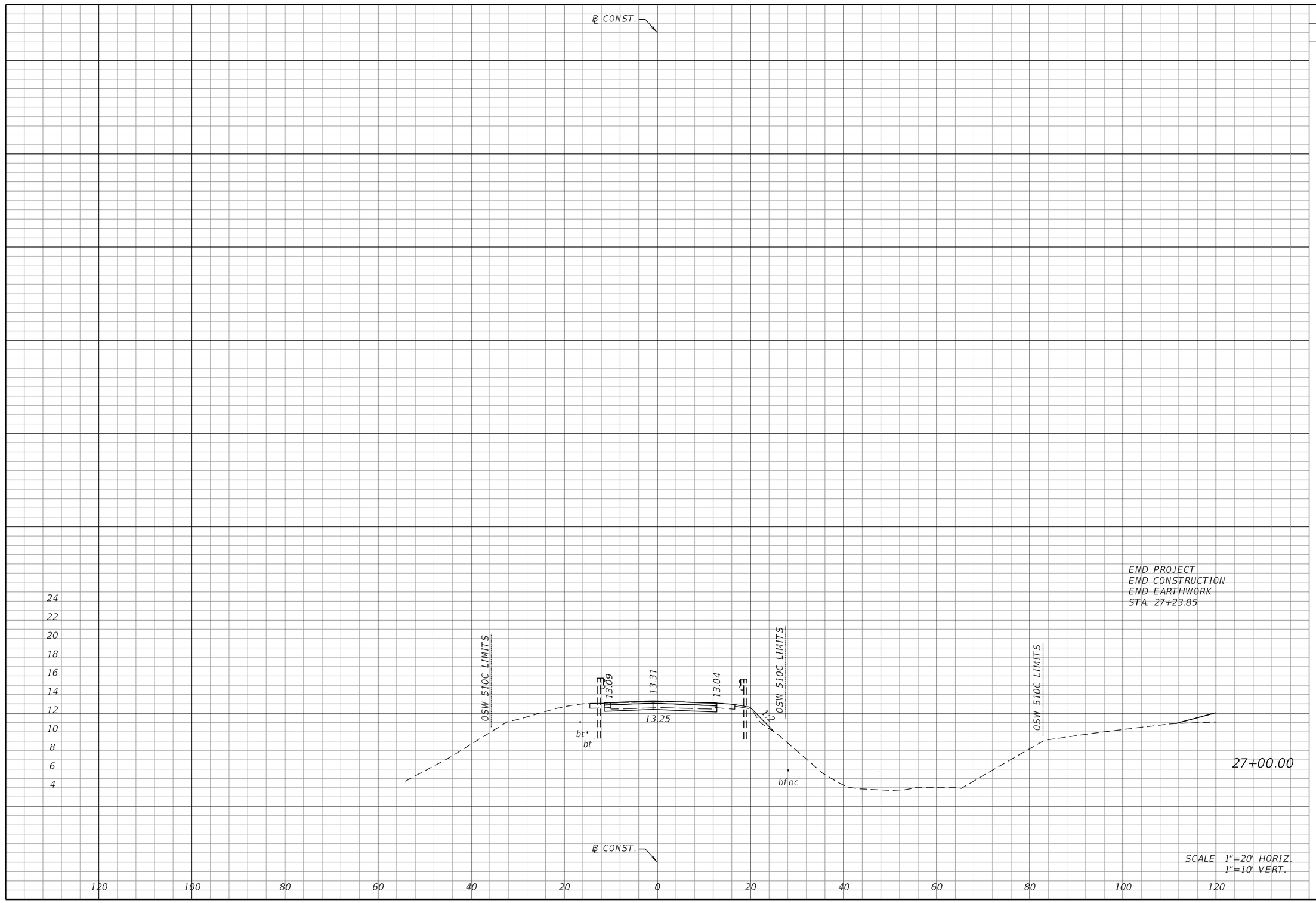
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CROSS SECTIONS

SHEET NO. 66



Regular Exc.		Embankment	
A	V	A	V
0		0	
	2.6		0.6
27+00.00			
5.9		1.4	
	8.6		1.6

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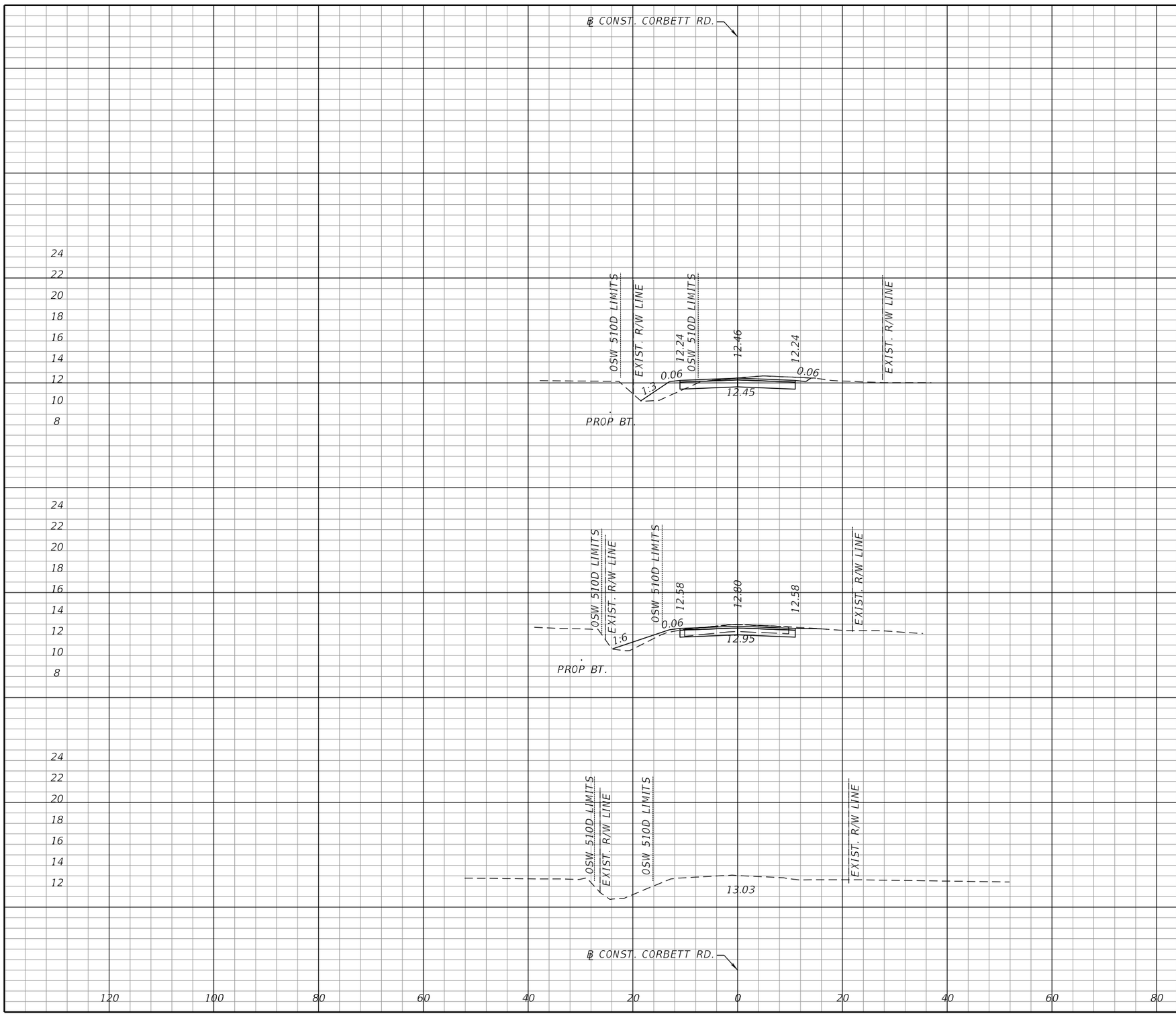
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CROSS SECTIONS

SHEET NO.
67



	Regular Exc.		Embankment	
	A	V	A	V
301+50.00	7.4		8.7	
		13.7		12.6
301+00.00	7.4		4.9	
		13.7		9.1
300+50.00	7.4		4.9	
		45.7		30.3
BEGIN CONSTRUCTION BEGIN EARTHWORK STA. 297+16.57 ℄ CONST. CORBETT RD.	0		0	

SCALE 1"=20' HORIZ.
1"=10' VERT.

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CROSS SECTIONS

SHEET NO. 68

	Regular Exc.		Embankment	
	A	V	A	V
303+00.00	50.1		0.6	
		81.6		11.4
302+50.00	38.0		11.7	
		61.5		21.5
302+00.00	28.4		11.4	
		33.1		18.6

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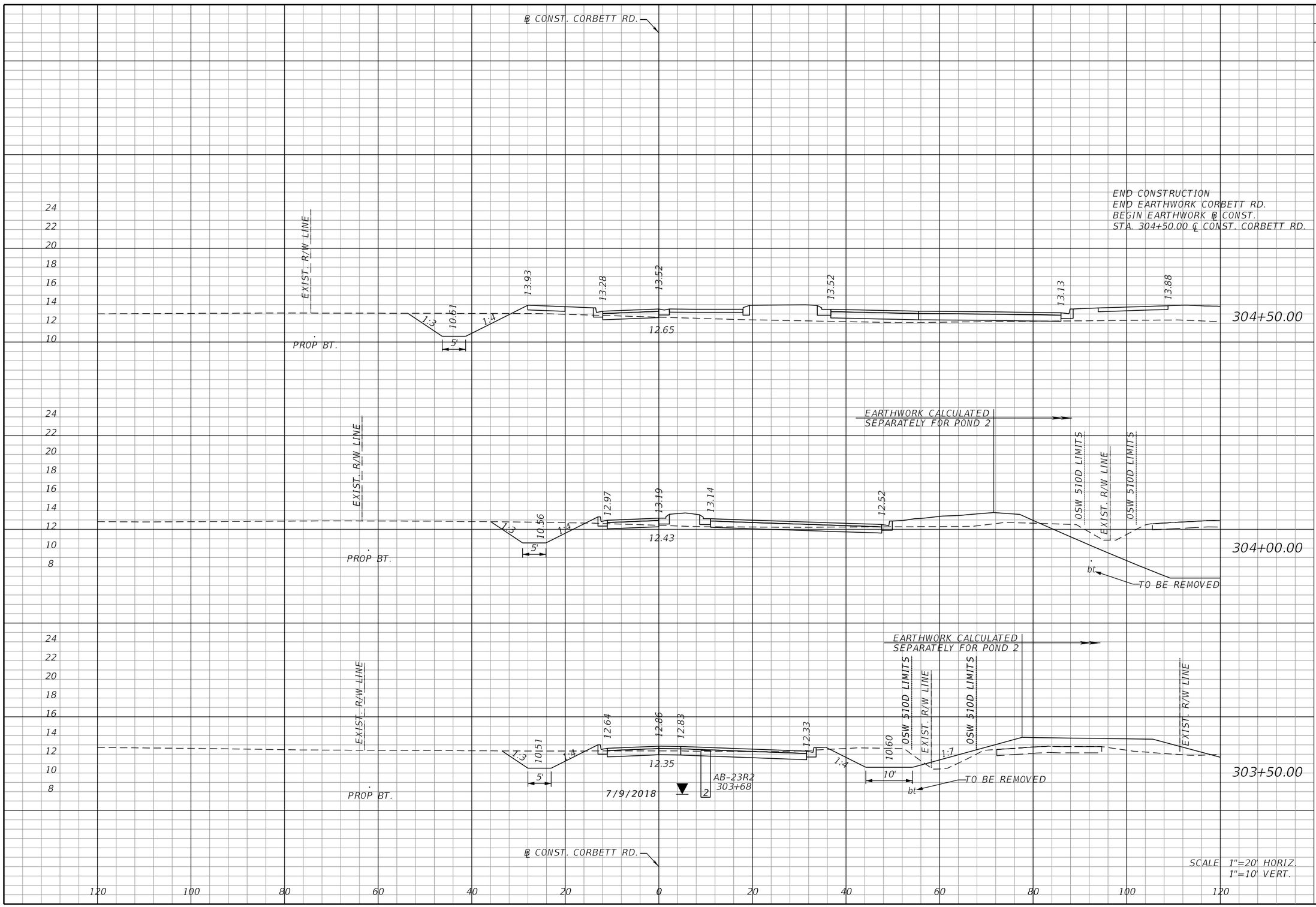
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CROSS SECTIONS

SHEET NO. 69

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Regular Exc.		Embankment	
A	V	A	V
	0.0		0.0
36.7		121.1	
	76.0		142.5
45.4		32.8	
	114.3		44.6
78.0		15.4	
	118.6		14.8

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET
(239) 479-8900
FORT MYERS, FLORIDA 33901

CROSS SECTIONS

SHEET NO.
70

℄ CONST.

EXIST. R/W LINE

13|29

CAP — I.E. 7.0'

±160 LF OF 24" STEEL CASING

I.E. 7.0' — CAP

10+31.00

EXIST. R/W LINE

exist. wm

14|09

exist. ss

exist. bt

exist. bfoc

I.E. 7.0'

110 LF OF 14" STEEL CASING

I.E. 8.0'

exist. ss

7+16.00

EXIST. R/W LINE

exist. wm

14|18

exist. ss

exist. bt

exist. bfoc

120 LF OF 8" D.I.P. WM

8" M.J. CAP W/2" B.O.

CONNECT TO EXIST. VALVE

2-22.5° M.J. BENDS

exist. ss

6+82.00

1" = 20' Horizontal

1" = 10' Vertical

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SPECIAL UTILITY CROSS SECTIONS

SHEET NO. 71

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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 THE REALIGNMENT OF LITTLETON ROAD TO KISMET PARKWAY AT THE NE 24TH AVENUE INTERSECTION IN LEE COUNTY. THIS INVOLVES THE RECONSTRUCTION OF LITTLETON ROAD TO A FOUR LANE DIVIDED URBAN ROADWAY, CONSTRUCTING SIDEWALKS, ADDING CURB AND GUTTER AND CONSTRUCTING PONDS. THE INTERSECTION AT CORBETT ROAD WILL BE RECONSTRUCTED AS A ROUNDABOUT. THE PROJECT EXTENDS A DISTANCE OF 0.402 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:

(1.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.

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

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

(1.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: 8.83 ACRES.
TOTAL AREA TO BE DISTURBED: 8.10 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) = 0.31 DURING: Cw (D) = 0.31-0.70 AFTER: Cw (A) = 0.70

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 SHGWT
7 - MATLACHA-URBAN LAND COMPLEX (1%)	B	2.0' - 3.0'
13 - BOCA FINE SAND (21%)	A/D	0.25' - 1.5'
42 - WABASSO SAND (5%)	C/D	0.5' - 1.5'
50 - OLDSMAR FINE SAND (73%)	C/D	0.5' - 1.5'

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	FECAL COLIFORM

OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

	DESCRIPTION	DRAINAGE AREA	LATITUDE	LONGITUDE	RECEIVING WATERBODY
(a)	1 - 18" RCP	3.10 AC	N 26°41' 46"	W 81°55' 10"	YELLOW FEVER CREEK
(b)	1 - 18" RCP	3.92 AC	N 26°41' 49"	W 81°55' 12"	YELLOW FEVER CREEK

THIS FACILITY DISCHARGES TO WATERS LISTED ON THE ADOPTED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO FECAL COLIFORM.

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)

(1.F.1.) EXISTING DRAINAGE FLOWS ARE TYPICALLY FROM THE 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.

(1.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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FORT MYERS, FLORIDA 33901

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 72

(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 ENVIROMENTAL 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 TARPAULIN.

(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 DEPARTMENT 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 CONTRUCTION 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 DISTRICT CONTAMINATION IMPACT COORDINATOR AT 863-519-2300 AND THE ENGINEER. IF A RELEASE CONTAINING HAZARDOUS SUBSTANCES OCCURS, CONTACT THE FLORIDA STATE WATCH OFFICE AT 800-320-0519 OR 850-413-9911 PER SECTION 9.2 OF THE CGP.

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STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 73

GENERAL TTCP NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF THE TRAFFIC CONTROL PLAN (T.C.P.), THE COST OF WHICH SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC. THE T.C.P. SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER WITH THE FDOT "ADVANCED WORK ZONE TRAFFIC CONTROL CERTIFICATION". THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

2. PREPARATION OF THE TEMPORARY TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, FDOT DESIGN MANUAL, FDOT, FY 2019-20 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND LEE COUNTY ADMINISTRATIVE CODE AC-11-12.

3. TEMPORARY TRAFFIC CONTROL SIGNS FOR THE PROJECT SHALL BE ERECTED PRIOR TO ANY CONSTRUCTION ACTIVITY. THESE SIGNS SHALL BE MAINTAINED AND/OR ADJUSTED DURING PERIODS OF CONSTRUCTION FROM PHASE TO PHASE AS APPLICABLE. PLACEMENT OF ALL CONSTRUCTION SIGNS SHALL BE FIELD LOCATED IN SUCH A WAY THAT WILL AVOID OBSTRUCTION OF OR CONFLICT WITH EXISTING SIGNS.

4. WHERE "FLAGGER" AND "WORKER" SIGNS ARE USED, THE SIGNS SHALL BE COVERED OR REMOVED DURING PERIODS WHEN CONSTRUCTION OPERATIONS ARE SUSPENDED SUCH AS NIGHTS, WEEKENDS OR HOLIDAYS.

5. LANE CLOSURES SHALL BE SCHEDULED AS FOLLOWS: THE LOCATION AND DURATION OF EACH LANE CLOSURE SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE IMPLEMENTATION OF THE CLOSURE AND SHALL MEET LEE COUNTY ADMINISTRATIVE CODE AC-11-12.

6. THE POSTED REGULAR SPEED LIMIT OF 40 MPH FOR LITTLETON RD AND CORBETT RD, 45 MPH FOR KISMET RD, AND 30 MPH FOR NE 24TH AVE SHALL BE MAINTAINED DURING CONSTRUCTION.

7. THE CONTRACTOR SHALL NOT EXCAVATE ANY AREAS THAT CANNOT BE SAFELY REOPENED TO TRAFFIC WITHIN THE SAME WORK PERIOD.

8. CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING OR MILLING. ALL EXISTING PAVEMENT MARKINGS THAT ARE ALTERED SHALL BE REPLACED UPON COMPLETION OF THE PROJECT.

9. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING THE CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION.

10. LANE CLOSURES SHALL BE RESTRICTED TO ACTIVE WORK ZONES.

11. LOCAL TRAFFIC INCLUDING PRIVATE DRIVEWAYS SHALL BE MAINTAINED DURING THE CONSTRUCTION.

12. A PCMS SHALL BE PLACED AT EACH END OF THE PROJECT FOR A PERIOD OF 7 DAYS PRIOR TO THE FIRST DAY OF LANE CLOSURES. THE LOCATION SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE MESSAGE SHOULD READ, UNLESS OTHERWISE DIRECTED BY THE ENGINEER:

    MESSAGE 1: LANE CLOSURE
    MESSAGE 2: DATE TO DATE

    ONE DAY PRIOR TO THE LANE CLOSURE THE MESSAGE FOR THE PCMS SHOULD READ, UNLESS OTHERWISE DIRECTED BY THE ENGINEER:

    MESSAGE 1: LANE CLOSURE
    MESSAGE 2: TIME TO TIME

PHASING NOTES:

THE CONSTRUCTION PHASING PLAN IS CONCEPTUAL ONLY AND PROVIDED TO SHOW CONSTRUCTABILITY.

PHASE I:

- MAINTAIN TRAFFIC ON EXISTING LITTLETON ROAD, CORBETT ROAD, KISMET ROAD AND NE 24TH AVE.
- CONSTRUCT POND 1A, POND 1B, AND PARTIALLY CONSTRUCT POND 2, DRAINAGE SYSTEM INCLUDING TEMPORARY PIPE TO OUTFALL INTO POND 2, PROPOSED LITTLETON ROAD REALIGNMENT, AND A PORTION OF THE ROUNDABOUT EXCEPT THE EAST LEG AS SHOWN IN PHASE I GRAPHICAL REPRESENTATION.

PHASE II:

- CONNECT CORBETT RD TO NEW ROUNDABOUT WHILE MAINTAINING TRAFFIC.
- COMPLETE CONSTRUCTION OF POND 2 AND DRAINAGE SYSTEM.
- CONSTRUCT EASTBOUND LANE FOR EAST LEG OF THE ROUNDABOUT AS SHOWN IN PHASE II GRAPHICAL REPRESENTATION. MAINTAIN TRAFFIC ON EXISTING LITTLETON RD.

PHASE III:

- SHIFT TRAFFIC FROM EXISTING LITTLETON RD TO PROPOSED LITTLETON RD REALIGNMENT.
- CONSTRUCT WESTBOUND LANE AND THE MEDIAN ISLAND FOR EAST LEG OF THE ROUNDABOUT AS SHOWN IN PHASE III GRAPHICAL REPRESENTATION.
- COMPLETE WORK ON EXISTING LITTLETON RD AS SHOWN IN PHASE III GRAPHICAL REPRESENTATION.
- RECONSTRUCT KISMET RD AS SHOWN IN THE ROADWAY PLANS.

PHASE IV:

- PLACE FINAL PAVEMENT MARKINGS PER THE SIGNING AND PAVEMENT MARKING PLANS.

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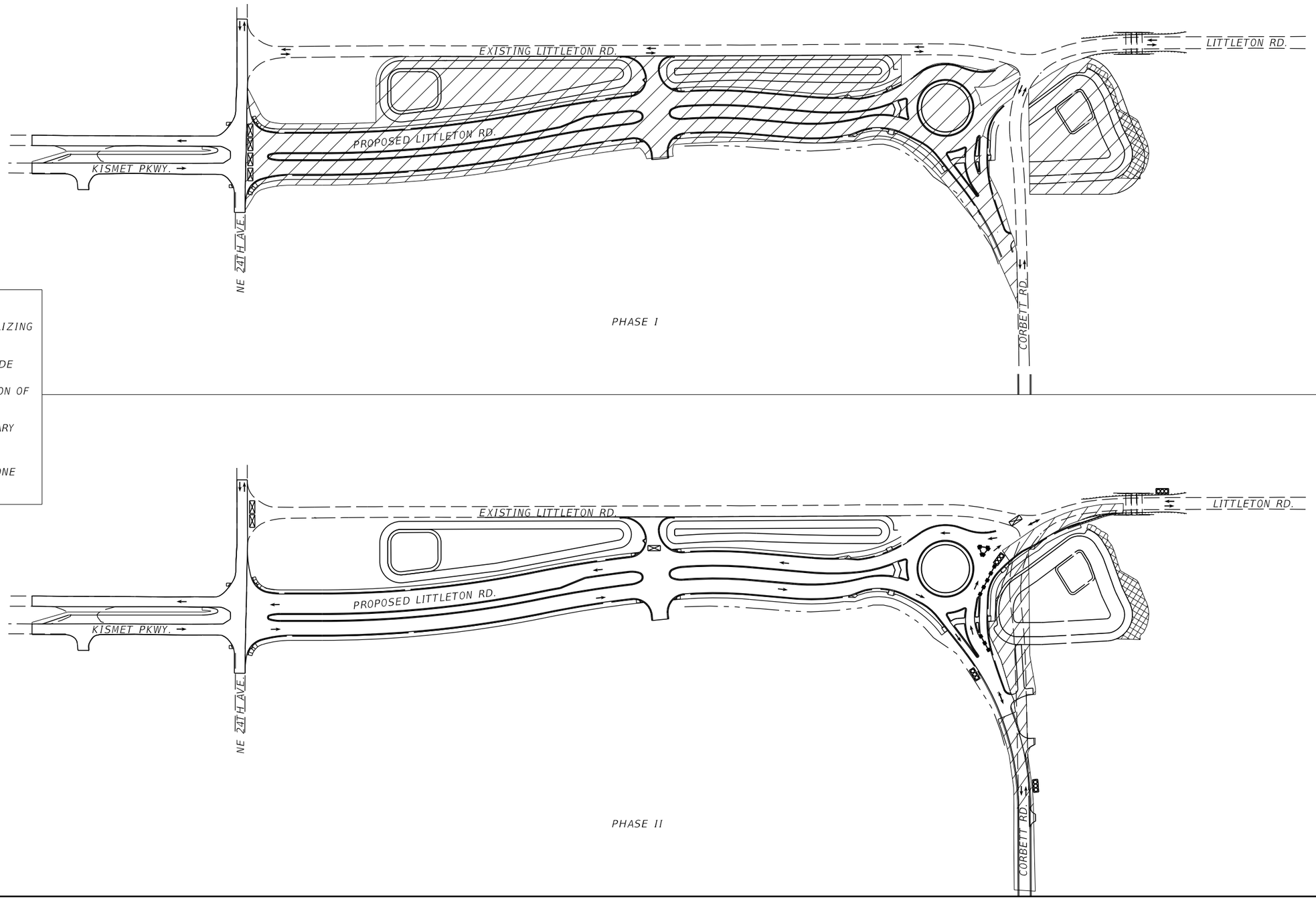
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TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO.
74



PHASE I

PHASE II

LEGEND

- CHANNELIZING DEVICE
- BARRICADE
- DIRECTION OF FLOW
- TEMPORARY SIGNAL
- WORK ZONE

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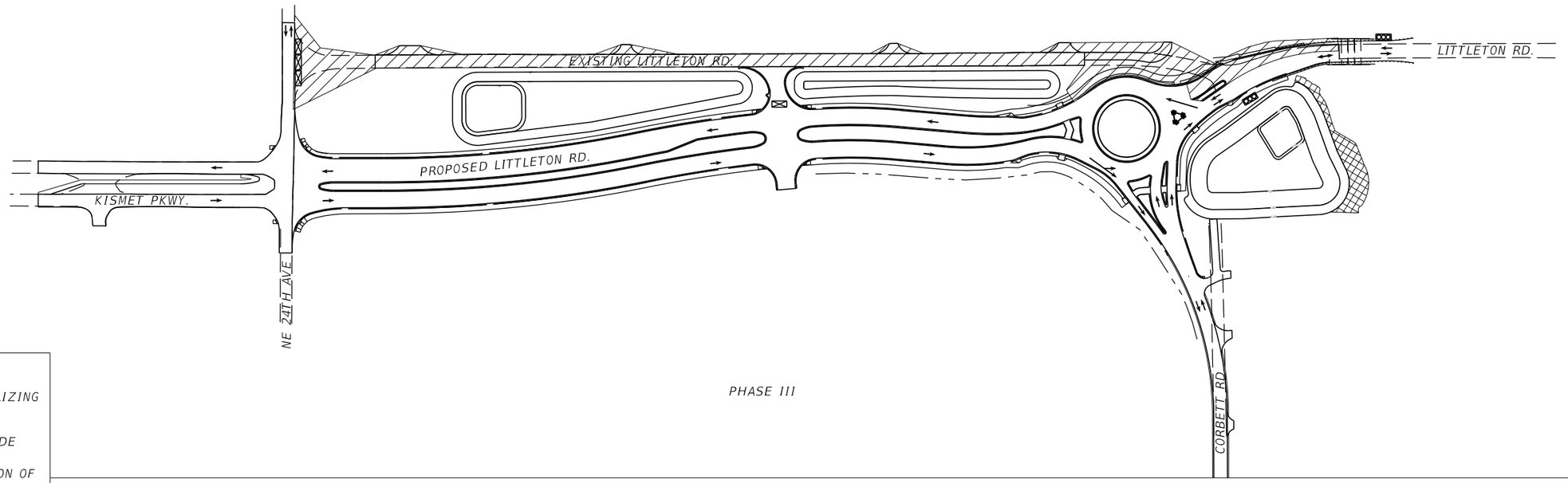
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TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 75

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NTS

PHASE III

LEGEND

- CHANNELIZING DEVICE
- BARRICADE
- DIRECTION OF FLOW
- TEMPORARY SIGNAL
- WORK ZONE

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TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO.
76

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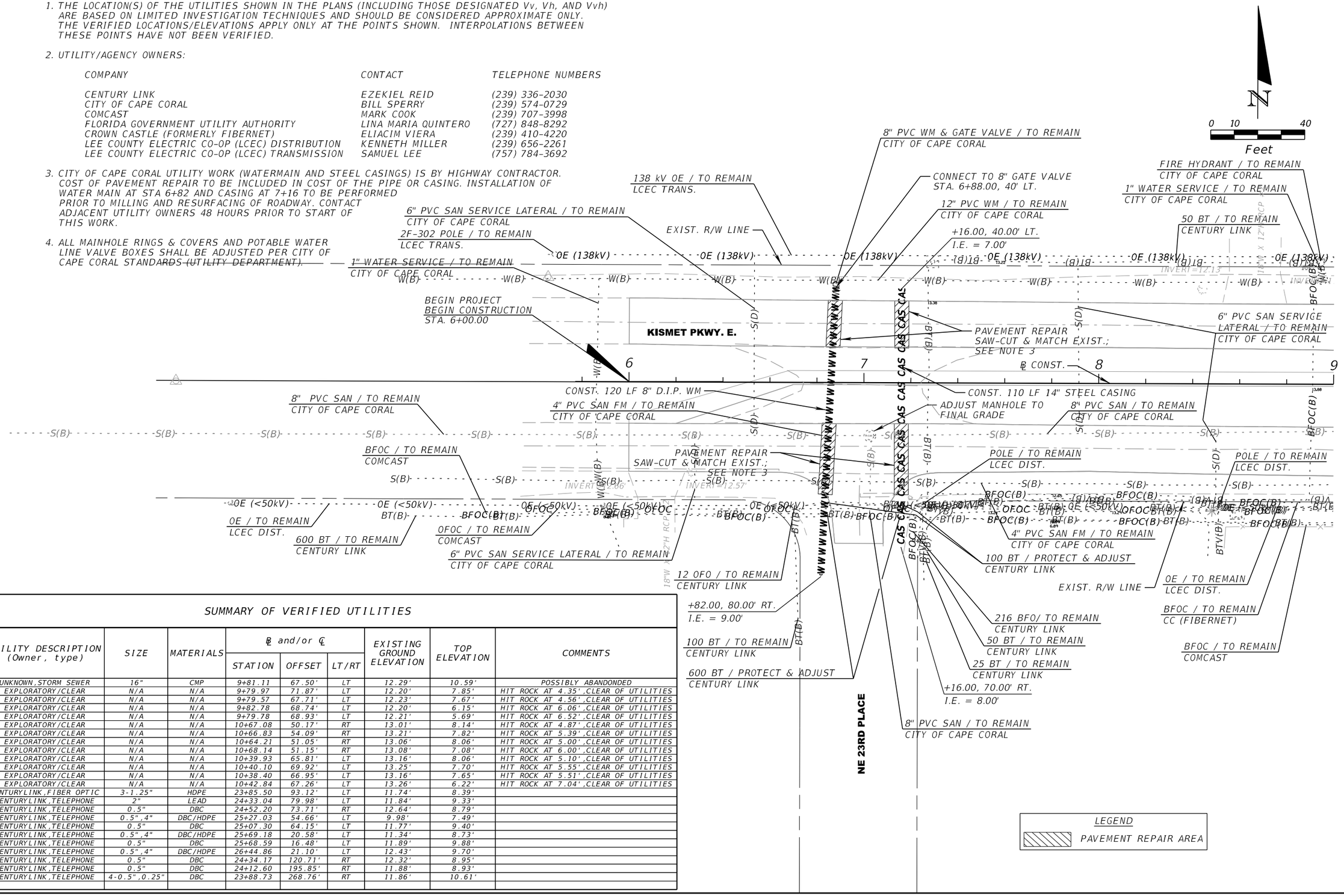
1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN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

2. UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
CENTURY LINK	EZEKIEL REID	(239) 336-2030
CITY OF CAPE CORAL	BILL SPERRY	(239) 574-0729
COMCAST	MARK COOK	(239) 707-3998
FLORIDA GOVERNMENT UTILITY AUTHORITY	LINA MARIA QUINTERO	(727) 848-8292
CROWN CASTLE (FORMERLY FIBERNET)	ELIACIM VIERA	(239) 410-4220
LEE COUNTY ELECTRIC CO-OP (LCEC) DISTRIBUTION	KENNETH MILLER	(239) 656-2261
LEE COUNTY ELECTRIC CO-OP (LCEC) TRANSMISSION	SAMUEL LEE	(757) 784-3692

3. CITY OF CAPE CORAL UTILITY WORK (WATERMAIN AND STEEL CASINGS) IS BY HIGHWAY CONTRACTOR. COST OF PAVEMENT REPAIR TO BE INCLUDED IN COST OF THE PIPE OR CASING. INSTALLATION OF WATER MAIN AT STA 6+82 AND CASING AT 7+16 TO BE PERFORMED PRIOR TO MILLING AND RESURFACING OF ROADWAY. CONTACT ADJACENT UTILITY OWNERS 48 HOURS PRIOR TO START OF THIS WORK.

4. ALL MAINHOLE RINGS & COVERS AND POTABLE WATER LINE VALVE BOXES SHALL BE ADJUSTED PER CITY OF CAPE CORAL STANDARDS (UTILITY DEPARTMENT).



SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	℄ and/or ℄ STATION	℄ and/or ℄ OFFSET	℄ and/or ℄ LT/RT	EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
Vvh 1	UNKNOWN,STORM SEWER	16"	CMP	9+81.11	67.50'	LT	12.29'	10.59'	POSSIBLY ABANDONDED
Vvh 2	EXPLORATORY/CLEAR	N/A	N/A	9+79.97	71.87'	LT	12.20'	7.85'	HIT ROCK AT 4.35',CLEAR OF UTILITIES
Vvh 3	EXPLORATORY/CLEAR	N/A	N/A	9+79.57	67.71'	LT	12.23'	7.67'	HIT ROCK AT 4.56',CLEAR OF UTILITIES
Vvh 4	EXPLORATORY/CLEAR	N/A	N/A	9+82.78	68.74'	LT	12.20'	6.15'	HIT ROCK AT 6.06',CLEAR OF UTILITIES
Vvh 5	EXPLORATORY/CLEAR	N/A	N/A	9+79.78	68.93'	LT	12.21'	5.69'	HIT ROCK AT 6.52',CLEAR OF UTILITIES
Vvh 6	EXPLORATORY/CLEAR	N/A	N/A	10+67.08	50.17'	RT	13.01'	8.14'	HIT ROCK AT 4.87',CLEAR OF UTILITIES
Vvh 7	EXPLORATORY/CLEAR	N/A	N/A	10+66.83	54.09'	RT	13.21'	7.82'	HIT ROCK AT 5.39',CLEAR OF UTILITIES
Vvh 8	EXPLORATORY/CLEAR	N/A	N/A	10+64.21	51.05'	RT	13.06'	8.06'	HIT ROCK AT 5.00',CLEAR OF UTILITIES
Vvh 9	EXPLORATORY/CLEAR	N/A	N/A	10+68.14	51.15'	RT	13.08'	7.08'	HIT ROCK AT 6.00',CLEAR OF UTILITIES
Vvh 10	EXPLORATORY/CLEAR	N/A	N/A	10+39.93	65.81'	LT	13.16'	8.06'	HIT ROCK AT 5.10',CLEAR OF UTILITIES
Vvh 11	EXPLORATORY/CLEAR	N/A	N/A	10+40.10	69.92'	LT	13.25'	7.70'	HIT ROCK AT 5.55',CLEAR OF UTILITIES
Vvh 12	EXPLORATORY/CLEAR	N/A	N/A	10+38.40	66.95'	LT	13.16'	7.65'	HIT ROCK AT 5.51',CLEAR OF UTILITIES
Vvh 13	EXPLORATORY/CLEAR	N/A	N/A	10+42.84	67.26'	LT	13.26'	6.22'	HIT ROCK AT 7.04',CLEAR OF UTILITIES
Vvh 16	CENTURYLINK,FIBER OPTIC	3-1.25"	HDPE	23+85.50	93.12'	LT	11.74'	8.39'	
Vvh 17	CENTURYLINK,TELEPHONE	2"	LEAD	24+33.04	79.98'	LT	11.84'	9.33'	
Vvh 18	CENTURYLINK,TELEPHONE	0.5"	DBC	24+52.20	73.71'	RT	12.64'	8.79'	
Vvh 19	CENTURYLINK,TELEPHONE	0.5",4"	DBC/HDPE	25+27.03	54.66'	LT	9.98'	7.49'	
Vvh 20	CENTURYLINK,TELEPHONE	0.5"	DBC	25+07.30	64.15'	LT	11.77'	9.40'	
Vvh 21	CENTURYLINK,TELEPHONE	0.5",4"	DBC/HDPE	25+69.18	20.58'	LT	11.34'	8.73'	
Vvh 22	CENTURYLINK,TELEPHONE	0.5"	DBC	25+68.59	16.48'	LT	11.89'	9.88'	
Vvh 23	CENTURYLINK,TELEPHONE	0.5",4"	DBC/HDPE	26+44.86	21.10'	LT	12.43'	9.70'	
Vvh 24	CENTURYLINK,TELEPHONE	0.5"	DBC	24+34.17	120.71'	RT	12.32'	8.95'	
Vvh 25	CENTURYLINK,TELEPHONE	0.5"	DBC	24+12.60	195.85'	RT	11.88'	8.93'	
Vvh 26	CENTURYLINK,TELEPHONE	4-0.5",0.25"	DBC	23+88.73	268.76'	RT	11.86'	10.61'	

LEGEND
PAVEMENT REPAIR AREA

NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENTS

SHEET NO. 77

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

MATCHLINE STA. 103+20.00
℄ CONST. 24TH AVE
SEE SHEET 82

NOTE: EXIST. R/W LIMITS BEYOND VIEW
(REFER TO SHEET NO. 82)

BFOC / TO REMAIN
CC (FIBERNET)
96 BFO / TO REMAIN
CENTURY LINK
50 BT / TO REMAIN
CENTURY LINK
100 BT / TO REMAIN
CENTURY LINK
EXIST. R/W LINE
OE / TO REMAIN
LCEC TRANS.
12" PVC WM / TO REMAIN
CITY OF CAPE CORAL
6" PVC SAN SERVICE LATERAL / TO REMAIN
CITY OF CAPE CORAL
8" PVC SAN / TO REMAIN
CITY OF CAPE CORAL
POLE X1300 / TO REMAIN
LCEC DIST.
EXIST. R/W LINE
POLE X0964S66883AA / TO REMAIN
LCEC DIST.
OE / RELOCATE
UNDERGROUND
LCEC DIST.
BFOC / TO REMAIN
COMCAST
BE / TO REMAIN
LCEC DIST.
℄ CONST. 24TH AVE.
200 BT / TO REMAIN
CENTURY LINK
100 BT / TO REMAIN
CENTURY LINK
BFOC / TO REMAIN
COMCAST
EXIST. R/W LINE

℄ CONST.
24TH AVE
OVHD FO / TO REMAIN
LCEC TRANS.
138 kV BE / TO REMAIN
LCEC TRANS.
PROPOSED POLE
LCEC DIST.
102+84, 20' RT.
+31.00, 80.00' LT.
I.E. = 7.00'
Vvh 2-5
Vvh 1
Vvh 10-13
2F-301 POLE / TO REMAIN
LCEC TRANS.
EXIST. R/W LINE
OE / RELOCATE UNDERGROUND
LCEC DIST.
CONST. 160 LF 24" STEEL CASING
ADJUST MANHOLE TO FINAL GRADE
Vvh 6-9
8" PVC SAN / TO REMAIN
CITY OF CAPE CORAL
POLE X1299 / TO BE REMOVED
LCEC DIST.
101+40, 25' RT.
+31.00, 80.00' RT.
I.E. = 7.00'
ADJUST MANHOLE TO FINAL GRADE
POLE G138A / TO REMAIN
LCEC DIST.
12" PVC WM / TO REMAIN
CITY OF CAPE CORAL
4" PVC SAN FM / TO REMAIN
CITY OF CAPE CORAL
2B-301 POLE / TO REMAIN
LCEC TRANS.
POLE / TO REMAIN
LCEC DIST.
12" PVC WM / TO REMAIN
CITY OF CAPE CORAL
EXIST. R/W LINE
138 kV OE / TO REMAIN
LCEC TRANS.
OE / TO REMAIN
LCEC DIST.

EXIST. R/W LINE
8' CONC. SWK.
EXIST. R/W LINE

KISMET PKWY. E.
LITTLETON RD.
NE 24TH AVE.

103 102 101 100
9 10 11 12 13 14

S-1 S-2 S-3 S-4 S-5

N
0 10 40
Feet

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NO.	DATE	BY	REVISIONS - DESCRIPTION

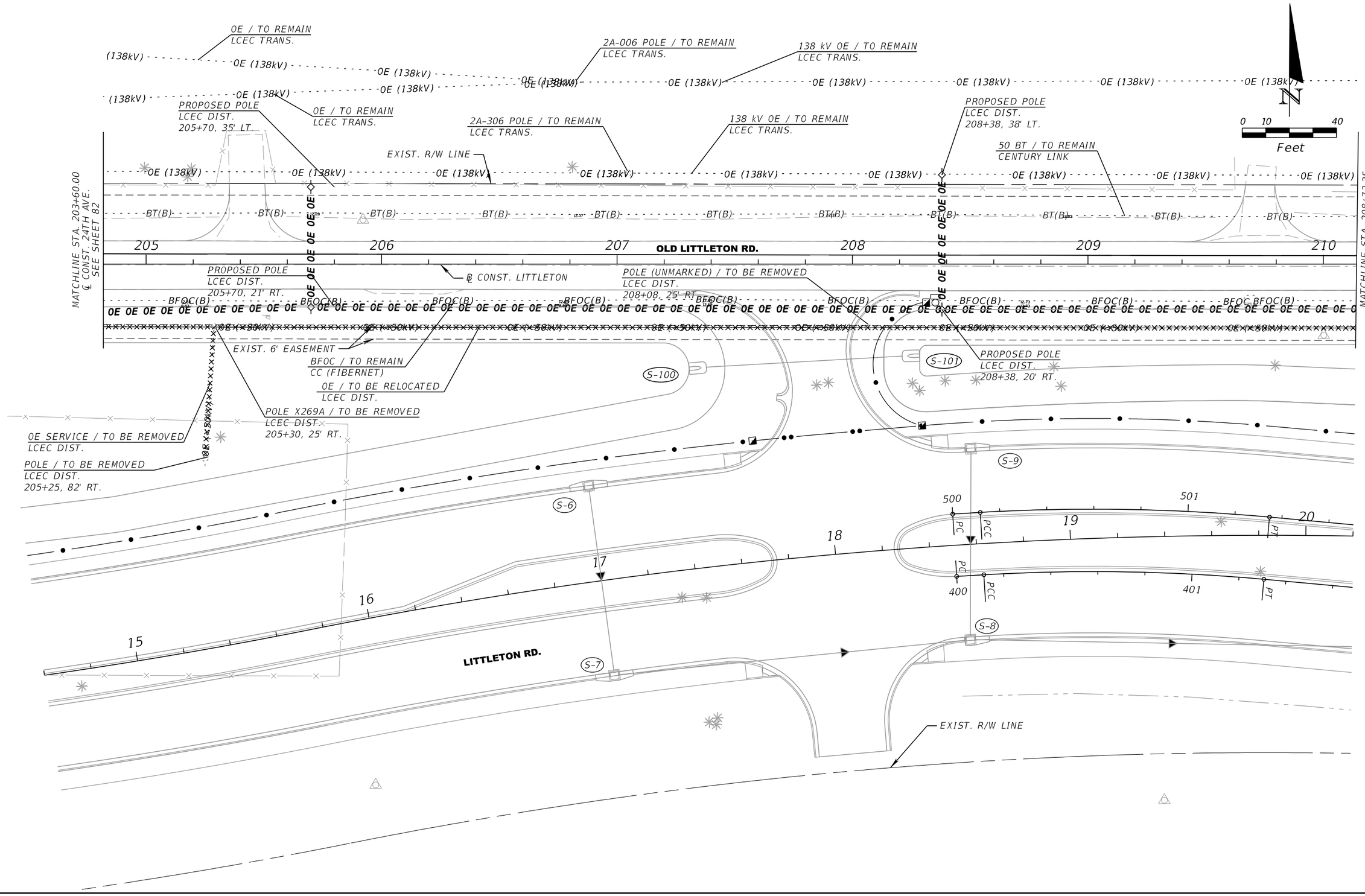
AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET
FORT MYERS, FLORIDA 33901
(239) 479-8900

UTILITY ADJUSTMENTS

SHEET NO.
78



NO.	DATE	BY	REVISIONS - DESCRIPTION

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TAMPA, FLORIDA 33619
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FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENTS

SHEET NO. 79

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138 kV OE / TO REMAIN
LCEC TRANS.

2A-004 POLE / TO REMAIN
LCEC TRANS.

50 BT / PROTECT AND ADJUST AS NEEDED
CENTURY LINK

25 BT / PROTECT AND ADJUST AS NEEDED
CENTURY LINK

2A-304 POLE / TO REMAIN
LCEC TRANS.

138 kV OE / TO REMAIN
LCEC TRANS.

2A-005 POLE / TO REMAIN
LCEC TRANS.

50 BT / TO REMAIN
CENTURY LINK

PROPOSED POLE
LCEC DIST.
24+60, 68' LT.

OFOC / TO BE REMOVED
COMCAST

BT PEDESTAL #45358 / TO REMAIN
CENTURY LINK

BT PEDESTAL #184602 / TO REMAIN
CENTURY LINK

50 BT / TO BE RETIRED IN PLACE
CENTURY LINK

PROPOSED POLE
LCEC DIST.
210+75, 30' LT.
EXIST. R/W LINE

POLE / TO REMAIN
LCEC TRANS.

25 BT / TO REMAIN
CENTURY LINK

0E SERVICE / TO BE ADJUSTED
LCEC DIST.

MATCHLINE STA. 208+72.25
℄ CONST. LITTLETON
SEE SHEET 79

211

212

℄ CONST. LITTLETON

OLD LITTLETON RD.

BFOC / TO REMAIN
CC (FIBERNET)

BFOC / TO BE LOWERED
CC (FIBERNET)
STA. 23+86, 92' LT.

PROPOSED POLE
LCEC DIST.
210+75, 20' RT.

EXIST. 6' EASEMENT

0E / TO BE RELOCATED
LCEC DIST.

POLE F3537B / TO BE REMOVED
LCEC DIST.
210+75, 27' RT.

FOC RISER / TO BE REMOVED
COMCAST
POLE F3538C / TO BE REMOVED
LCEC DIST.
24+60, 53' LT.

BTV / TO BE REMOVED
COMCAST

LITTLETON RD.

℄ CONST.

PROPOSED BE
LCEC DIST.

WOOD POLE (UNMARKED) /
TO BE REMOVED
LCEC DIST.
24+50, 40' RT.

FOC RISER / TO BE REMOVED
COMCAST

50 BT / TO BE RETIRED
CENTURY LINK

OFOC / TO BE ADJUSTED
COMCAST

0E / TO BE REMOVED
LCEC DIST.

TH 18

PROPOSED POLE
LCEC DIST.
24+38, 70' RT.

PROPOSED 50 BT SERVICE
CENTURY LINK

EXIST. R/W LINE

℄ CONST.
CORBETT

CORBETT RD.

MATCHLINE STA. 304+20.00
℄ CONST. CORBETT RD.
SEE SHEET 83

S-102 S-103 S-102A S-14 S-15 S-10 S-12 S-13 S-13A S-11 S-18 S-19

Vvh 16 Vvh 17 Vvh 20 Vvh 19 Vvh 21 Vvh 22

0 10 40
Feet

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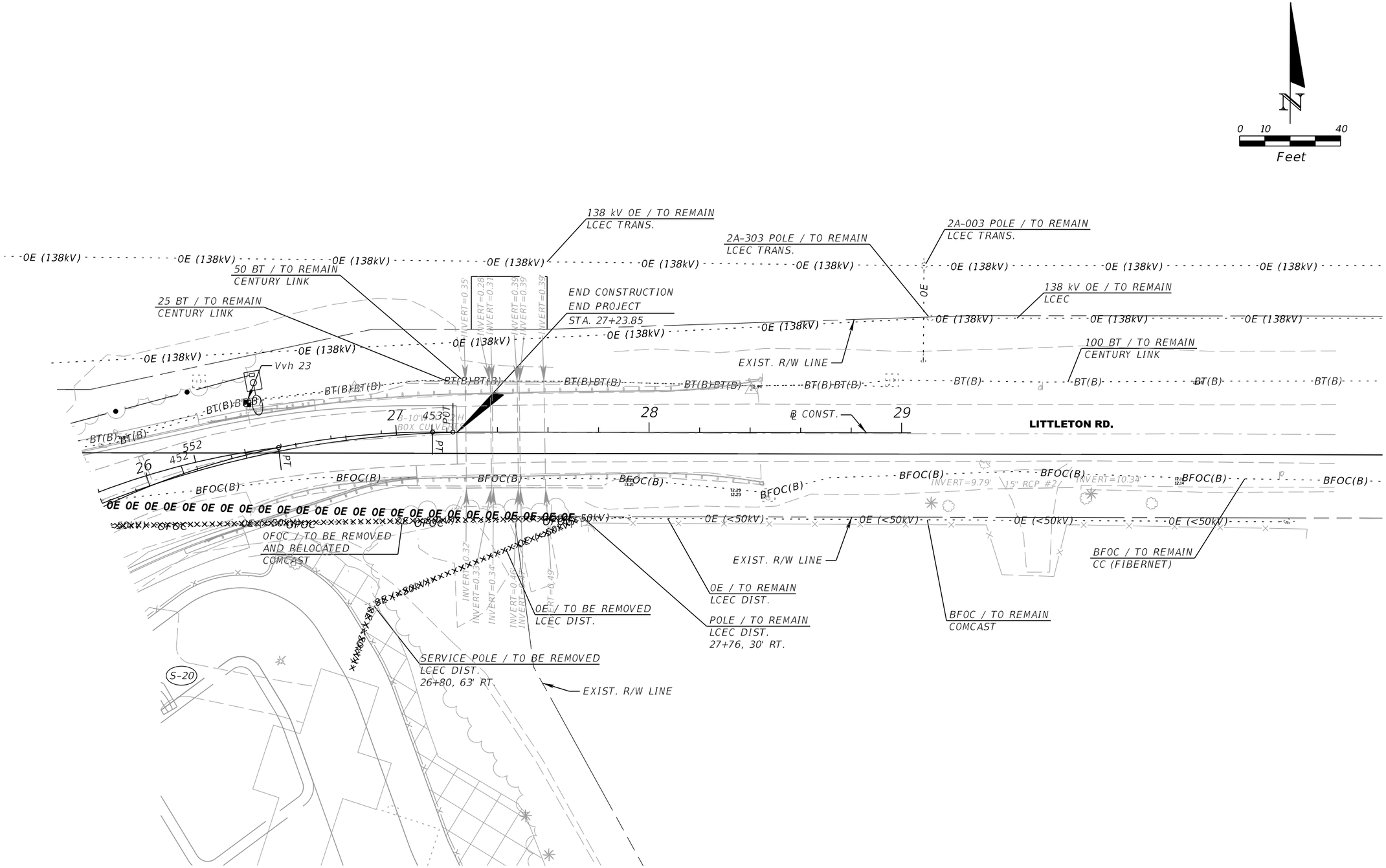
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENTS

SHEET NO.
80



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1500 MONROE STREET
(239) 479-8900
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENTS

SHEET NO. 81

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LCEC CORBETT SUBSTATION

0 10 40
Feet

BFOC / TO REMAIN
COMCAST

50 BT / TO REMAIN
CENTURY LINK

POLE / TO REMAIN
LCEC DIST.

OE / TO REMAIN
LCEC DIST.

OE / TO REMAIN
LCEC DIST.

BE / TO REMAIN
LCEC

2A-007 POLE / TO REMAIN
LCEC TRANS.

2F-007 POLE / TO REMAIN
LCEC TRANS.

138 kV OE / TO REMAIN
LCEC TRANS.

2A-308 POLE / TO REMAIN
LCEC TRANS.

2F-007B POLE / TO REMAIN
LCEC TRANS.

OVHD F0 / TO REMAIN
LCEC TRANS.

2A-307 POLE / TO REMAIN
LCEC TRANS.

EXIST. R/W LINE

BFOC / TO REMAIN
CC (FIBERNET)

POLE X1096 / TO REMAIN
LCEC DIST.

POLE X259A / TO REMAIN
LCEC DIST.

POLE X268A / TO REMAIN
LCEC DIST.

OE / TO BE ADJUSTED
LCEC DIST.

EXIST. 6' EASEMENT

18"W X 12"H RCP #2
INVERT=10.56' AT STRUCTURE

15" CMP #2
INVERT=9.03'

INVERT=8.98'

INVERT=9.37'

NO ACCESS AT CATCH BASIN
DITCH BOTTOM INLET

2' X 0.7' CONCRETE HEADWALL

CONCRETE CONDITION

104 200 201 202 203 204

NE 24TH AVE.

OLD LITTLETON RD.

℄ CONST. 24TH AVE.

MATCHLINE STA. 103+20.00
℄ CONST. 24TH AVE.
SEE SHEET 78

MATCHLINE STA. 203+60.00
℄ CONST. 24TH AVE.
SEE SHEET 79

NOTE: PROP. R/W LIMITS BEYOND VIEW
(REFER TO SHEET NO. 78)

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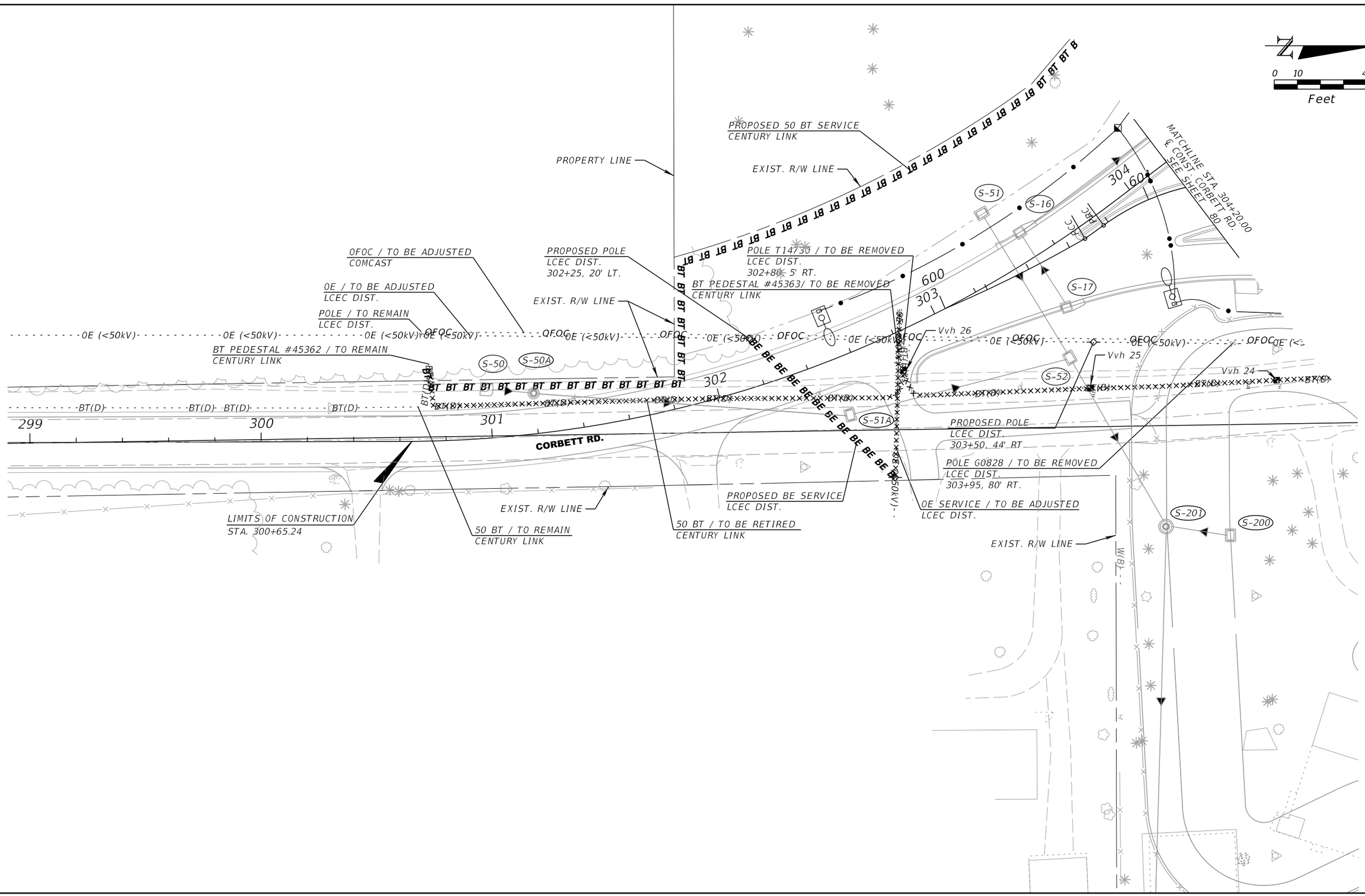
PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENTS

SHEET NO.
82

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NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
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1500 MONROE STREET
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FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENTS

SHEET NO.
83

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SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY P	QUANTITY F	DESIGN NOTES	CONSTRUCTION REMARKS
0101 1	MOBILIZATION	1			
0102 1	MAINTENANCE OF TRAFFIC	1			

PAY ITEM NOTES

102- 1 INCLUDES THE COST OF ALL TRAFFIC CONTROL RELATED ITEMS, INCLUDING BARRICADES AND ANY OTHER DEVICES NEEDED TO PROPERLY HANDLE EXISTING TRAFFIC DURING CONSTRUCTION UTILTY RELOCATIONS.

110- 1- 1 SELECTIVE CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE LIMITS OF THE PROJECT AS SHOWN IN THESE PLANS. INCLUDING REMOVAL OF EXISTING ASPHALT PAVEMENT, ASPHALT DRIVEWAYS, LIMEROCK OR BASE MATERIAL.

110- 1- 1A SELECTIVE CLEARING AND GRUBBING FOR DEMOLITION OF THE BUILDINGS, POOL, AND ANY STRUCTURES NOT INCLUDED FOR PIN 110-1-1, LOCATED ON THE PROPOSED POND SITE AT 1828 CORBETT ROAD. AS PART OF THE DEMOLITION, AN ASBESTOS SURVEY WILL BE REQUIRED. THE COST FOR THESE ACTIVITIES SHALL BE INCLUDED AS A LUMP SUM WITH THIS PAY ITEM NUMBER.

285-706 CEMENTED COQUINA, SHELL BASE/BANK RUN SHELL, AND SHELL ROCK SHALL NOT BE USED FOR THE OPTIONAL BASE GROUP.

522- 2 COST OF THICKENED SIDEWALK IS INCLUDED IN THE COST OF 6" THICK CONCRETE.

570- 1- 2 SOD TO BE USED IN ALL AREAS WHERE THE EXISTING GROUND HAS BEEN DISTURBED DURING CONSTRUCTION. AREAS SHALL BE PLANTED WITHIN 48 HOURS AFTER BEING CUT AND KEPT MOIST FROM THE TIME IT IS PLANTED. INCLUDES WATERING FOR A PERIOD OF THREE MONTHS (TWICE A WEEK OR AS DIRECTED BY THE ENGINEER). THE WORK AND MATERIALS FOR PEGGING THE SOD WILL BE INCLUDED IN THIS PAY ITEM.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER 0104 10 3 LF P	SEDIMENT BARRIER 0104 10 3 LF F	SOIL TRACKING PREVENTION DEVICE 0104 15 EA P	SOIL TRACKING PREVENTION DEVICE 0104 15 EA F	INLET PROTECTION SYSTEM 0104 18 EA P	INLET PROTECTION SYSTEM 0104 18 EA F	DESIGN NOTES	CONSTRUCTION REMARKS
6+00.00 to 6+77.73	RT		92.0						℄ CONST.	
6+00.01 to 9+78.04	LT		618.9						℄ CONST.	
7+27.71 to 9+77.85	RT		391.1						℄ CONST.	
10+31.95 to 23+70.71	RT		1819.5						℄ CONST.	
10+44.79 to 27+45.95	LT		1694.2						℄ CONST.	
23+72.68 to 28+04.33	RT		846.5						℄ CONST.	
101+42.68 to 101+42.71	LT						1		℄ CONST. 24TH AVE.	
103+34.22 to 103+37.23	RT						1		℄ CONST. 24TH AVE.	
103+36.22 to 103+39.03	LT						1		℄ CONST. 24TH AVE.	
104+65.48 to 104+65.48	LT						1		℄ CONST. 24TH AVE.	
SUB-TOTAL:			5462.2		2		4			
TOTAL:			5462		2		4			

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SOUTHWEST FLORIDA
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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

SUMMARY OF QUANTITES

SHEET NO. SQ-1

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
					AREA ID	CYCLES	AREA AC/CYCLE	AREA TOTAL (AC) P	AREA TOTAL (AC) F	AREA ID	CYCLES	AREA AC/CYCLE	AREA TOTAL (AC) P	AREA TOTAL (AC) F		
ALL	6+00.00 to 8+55.50	RT	300	30	15287	10	0.083	0.830								
ALL	6+20.25 to 6+87.83	RT	300	30	15200	10	0.024	0.240								
ALL	7+08.36 to 9+87.23	RT	300	30	15213	10	0.093	0.930								
ALL	8+77.85 to 9+92.33	LT	300	30	15745	10	0.092	0.920								
ALL	9+77.74 to 9+87.36	RT	300	30	15280	10	0.002	0.020								
ALL	10+12.14 to 15+77.52	LT	300	30	28156	10	0.327	3.270								
ALL	10+23.74 to 23+72.50	RT	300	30	31506	10	1.538	15.380								
ALL	15+90.36 to 19+75.00	LT	300	30	27581	10	0.227	2.270								
ALL	19+86.63 to 22+48.33	LT	300	30	27571	10	0.133	1.330								
ALL	22+73.04 to 24+86.76	LT	300	30	27563	10	0.077	0.770								
ALL	23+25.52 to 23+72.41	RT	300	30	34182	10	0.111	1.110								
ALL	23+37.70 to 23+74.74	RT	300	30	34176	10	0.077	0.770								
ALL	23+73.80 to 23+98.76	RT	300	30	34189	10	0.034	0.340								
ALL	23+86.26 to 24+24.83	RT	300	30	31796	10	0.084	0.840								
ALL	23+88.57 to 24+19.56	RT	300	30	28144	10	0.063	0.630								
ALL	24+10.80 to 28+20.77	RT	300	30	31770	10	0.489	4.890								
ALL	24+68.96 to 27+00.47	LT	300	30	27626	10	0.086	0.860								
ALL	6+00.00 to 6+87.83	RT	300	30						12590	10	0.031	0.310			
ALL	6+00.00 to 9+52.45	LT/RT	300	30						12694	10	0.146	1.460			
ALL	6+24.99 to 8+55.43	LT	300	30						25624	10	0.081	0.810			
ALL	7+08.36 to 9+87.23	RT	300	30						12560	10	0.094	0.940			
ALL	8+77.18 to 10+00.89	LT	300	30						25591	10	0.142	1.420			
ALL	9+77.72 to 9+87.32	RT	300	30						25080	10	0.005	0.050			
ALL	9+77.74 to 9+87.36	RT	300	30						10459	10	0.002	0.020			
ALL	10+12.14 to 10+53.59	LT	300	30						30374	10	0.099	0.990			
ALL	12+64.13 to 15+77.52	LT	300	30						30412	10	0.157	1.570			
ALL	15+90.36 to 19+75.00	LT	300	30						24960	10	0.227	2.270			
ALL	19+86.63 to 22+48.33	LT	300	30						24967	10	0.133	1.330			
ALL	22+73.04 to 24+86.76	LT	300	30						24976	10	0.077	0.770			
ALL	23+74.75 to 23+97.52	RT	300	30						30420	10	0.030	0.300			
ALL	24+94.24 to 25+47.41	LT	300	30						24984	10	0.011	0.110			
ALL	27+16.84 to 27+22.65	LT	300	30						10273	10	0.001	0.010			
							SUB-TOTAL:	35.40				SUB-TOTAL:	12.36			
							TOTAL:	35.4				TOTAL:	12.4			

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NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

SUMMARY OF QUANTITES

SHEET NO.
SQ-2

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	6+00.00 to 9+79.96	LT/RT	22535	LS	0.280	1.0		1		7.70 TOTAL AC	
		10+07.99 to 13+15.24	LT/RT	26747	LS	0.790						
		12+71.26 to 17+39.57	LT	26737	LS	0.960						
		13+06.89 to 19+33.60	LT/RT	26797	LS	1.760						
		18+26.38 to 22+71.27	LT	26724	LS	0.430						
		19+30.33 to 25+10.33	LT/RT	26871	LS	2.150						
		23+28.63 to 23+73.81	RT	33324	LS	0.210						
		23+97.41 to 24+19.82	RT	27022	LS	0.010						
		24+01.11 to 24+64.04	RT	27035	LS	0.100						
		24+32.42 to 27+35.45	RT	27050	LS	0.930						
		25+24.97 to 27+22.61	LT	27086	LS	0.080						
0110 1 1B	CLEARING AND GRUBBING, BUILDING DEMOLITION	302+72.00 to 303+92.00	RT		LS		1.0		1		FOR POND 2	

SUMMARY OF MAILBOXES

STATION	SIDE	QUANTITY 0110 7 1		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
212+90.00	LT	1		9780 Littleton Rd.	
212+92.00	LT	1		9760 Littleton Rd.	
300+31.00	RT	1		1814 Corbett Rd.	
300+32.00	RT	1		1816 Corbett Rd.	
302+08.00	RT	1		1818 Corbett Rd.	
302+87.00	RT	1		1820 Corbett Rd.	
SUB-TOTAL:		6			
TOTAL:		6			

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120- 1-	REGULAR EXCAVATION				
	BL CONST. STA. 5+77.08 TO STA. 27+23.85	735.50			
	BL CONST. CORBETT RD. STA. 300+65.24 TO STA. 304+80.00	454.40			
	POND 1A	4858.38			
	POND 1B	1468.40			
	POND 2	4139.48			
	TOTAL REGULAR EXCAVATION	11656.2			
120- 6-	EMBANKMENT				
	BL CONST. STA. 5+77.08 TO STA. 27+23.85	6201.90			
	BL CONST. CORBETT RD. STA. 300+65.24 TO STA. 304+80.00	269.10			
	BL CONST. LITTLETON RD. STA. 200+00.00 TO STA. 212+97.08	83.50			
	POND 1A	13.10			
	POND 1B	8.93			
	POND 2	955.10			
	TOTAL EMBANKMENT	7531.6			

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SUMMARY OF QUANTITES

SHEET NO. SQ-3

SUMMARY OF TURNOUTS

LOCATION STA. TO STA.	SIDE	AREA ID	0286 1 SY P	0286 1 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
22+34.98 to 23+15.09	LT	9346	80.3			
12+06.01 to 12+71.88	LT	7146	85.9			
15+51.77 to 16+05.20	LT	6997	60.6			
19+50.79 to 20+10.33	LT	6869	63.8			
22+16.28 to 23+02.59	LT	6910	69.9			
23+29.54 to 24+99.24	LT	6935	204.9			
300+24.38 to 300+66.20	RT	10105	30.2			
301+54.77 to 302+13.59	RT	7128	64.1			
302+51.80 to 303+50.90	RT	9330	205.1			
		SUB-TOTAL:	864.8			
		TOTAL:	865			

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	LOCATION DESCRIPTION	SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0160 4	Type B Stabilization	6+00.00 to 9+79.96		LT/RT	37453			SY	927.1		14908		Kismet Widening	
		10+07.99 to 27+23.86		LT/RT	37266				5579.8				Littleton Realignment RT	
		10+09.58 to 27+23.86		LT/RT	37344				6172.7				Littleton Realignment LT	
		297+17.99 to 304+80.00		LT/RT	37409				2227.9				Corbett Rd	
285706	Optional Base, Base Group 06	6+20.13 to 9+79.96		LT/RT	3089			SY	678.6		14659		Kismet Widening	
		10+07.99 to 27+23.86		LT/RT	13680				5579.8				Littleton Realignment RT	
		10+09.58 to 27+23.86		LT/RT	13758				6172.7				Littleton Realignment LT	
		297+17.99 to 304+80.00		LT/RT	13585				2227.9				Corbett Rd	
0327 70 1	Milling Exist Asph Pavt, 1" Avg Depth	100+80.01 to 104+50.00		LT/RT	9356			SY	872.9		3551		24th Milling	
		201+40.03 to 212+97.08		LT/RT	7116				2677.7				Old Littleton Milling	
0327 70 6	Milling Exist Asph Pavt, 1 1/2" Avg Depth	6+00.00 to 9+89.58		LT/RT	9504			SY	1939.1		1939		Kismet Milling	
0334 1 13	Superpave Asphaltic Conc, Traffic C	6+00.00 to 9+89.58		LT/RT	22273			TN	106.62		1912.9		Kismet Resurfacing	
		6+20.03 to 9+79.96		LT/RT	15314				73.22				Kismet Widening	
		10+07.99 to 27+23.86		LT/RT	23231				613.78				Littleton Realignment RT	
		10+09.58 to 27+23.86		LT/RT	23316				678.99				Littleton Realignment LT	
		100+80.01 to 104+50.00		LT/RT	22248				47.97				24th Resurfacing	
		201+40.00 to 212+97.08		LT/RT	11960				147.27				Old Littleton Resurfacing	
		297+17.99 to 304+80.00		LT/RT	21159				245.06				Corbett Rd.	
0337 7 82	Asphalt Concrete Friction Course, Traffic C, FC-9.5, PG 76-22	6+00.00 to 9+89.58		LT/RT	21607			TN	106.94		1107.3		Kismet Resurfacing	
		6+20.03 to 9+79.96		LT/RT	10465				36.61				Kismet Widening	
		10+07.99 to 27+23.86		LT/RT	23467				306.89				Littleton Realignment RT	
		10+09.58 to 27+23.86		LT/RT	23402				339.50				Littleton Realignment LT	
		100+80.01 to 104+50.00		LT/RT	21439				47.53				24th Resurfacing	
		201+40.00 to 212+97.08		LT/RT	10793				147.28				Old Littleton Resurfacing	
		297+17.99 to 304+80.00		LT/RT	21394				122.53				Corbett Rd	
0350 30 13	Plain Cement Concrete Pavement, 12"	23+03.66 to 24+08.22		LT/RT	4811			SY	206.3		206		Roundabout Apron	

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SUMMARY OF QUANTITES

SHEET NO.
SQ-4

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL 0339 1 TN P	UNDER GUARDRAIL 0339 1 TN F	DESIGN NOTES	CONSTRUCTION REMARKS
26+05.26 to 27+07.12	RT	15519			2	2.95		100lb/SY	
26+25.22 to 26+69.88	LT	19496			2	1.65			
				SUB-TOTAL:		4.60			
				GRAND TOTAL:		4.6			

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS

LOCATION STA. TO STA.	SIDE	PIPE LENGTH - LF ROUND 24"	MES - EA ROUND 18"	MES - EA ROUND 24"	PERFORMANCE TURF (SOD) SY	DESIGN NOTES	CONSTRUCTION REMARKS
301+00.00	LT.	15.0		1	24	S-50	
25+50.00	LT.		1		25	S-103	
SUB-TOTAL:		15.0	1	1	49		
TOTAL:		15	1	1	49		

SUMMARY OF RAILING

LOCATION STA. TO STA.	SIDE	PIPE HANDRAIL - GUIDERAIL 0515 1 2 LF P	PIPE HANDRAIL - GUIDERAIL 0515 1 2 LF F	DESIGN NOTES	CONSTRUCTION REMARKS
10+45.00 TO 10+65.00	LT	20.0			
SUB-TOTAL:		20			
TOTAL:		20			

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SUMMARY OF QUANTITES

SHEET NO.
SQ-5

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 1 7	Concrete Curb & Gutter, Type E	10+54.55 to 17+68.37	LT/RT		LF	1461.1			1461.1		3041			
		18+31.57 to 22+54.10	LT/RT			464.6			464.6					
		18+50.82 to 22+54.25	LT/RT			404.2			404.2					
		22+54.10 to 22+65.68	LT			11.6			11.6					
		22+54.25 to 22+65.36	LT/RT			11.5			11.5					
		22+65.36 to 22+83.41	LT/RT			72.6			72.6					
		23+39.01 to 23+70.20	RT			70.1			70.1					
		23+42.10 to 23+45.82	RT			11.8			11.8					
		23+45.82 to 23+67.73	RT			142.7			142.7					
		23+62.52 to 23+65.11	RT			11.9			11.9					
		23+77.98 to 23+83.28	RT			40.6			40.6					
		23+78.65 to 23+80.96	RT			12.2			12.2					
		23+80.96 to 23+97.86	RT			77.1			77.1					
		23+83.28 to 23+86.38	RT			12.0			12.0					
		24+29.44 to 24+43.43	LT/RT			53.2			53.2					
		24+41.63 to 24+52.99	RT			12.1			12.1					
		24+43.43 to 24+55.00	LT			11.9			11.9					
		24+52.99 to 25+28.24	LT/RT			160.0			160.0					
0520 1 10	Concrete Curb & Gutter, Type F	10+13.61 to 10+87.52	RT		LF	89.6			89.6		3508			
		10+22.29 to 10+72.51	LT			64.1			64.1					
		10+83.01 to 13+17.45	LT			231.3			231.3					
		10+98.02 to 13+17.55	RT			222.7			222.7					
		13+27.85 to 16+91.84	RT			366.5			366.5					
		13+28.16 to 16+92.15	LT			361.5			361.5					
		17+07.85 to 17+84.98	LT			95.8			95.8					
		17+08.16 to 17+83.44	RT			103.5			103.5					
		17+44.01 to 17+86.95	LT			77.5			77.5					
		18+12.99 to 18+57.55	LT			115.8			115.8					
		18+16.56 to 18+52.45	RT			64.9			64.9					
		18+63.16 to 21+61.28	RT			292.5			292.5					
		18+67.85 to 21+48.13	LT			285.3			285.3					
		21+58.41 to 22+17.53	LT			58.7			58.7					
		21+71.69 to 22+15.33	RT			48.1			48.1					
		22+30.50 to 23+59.63	RT			242.5			242.5					
		22+34.27 to 25+31.34	LT			287.6			287.6					
		23+61.77 to 23+62.89	RT			9.3			9.3					
		23+87.04 to 23+93.20	RT			74.6			74.6					
		23+87.40 to 24+00.40	RT			78.4			78.4					
		24+03.75 to 25+57.38	RT			189.6			189.6					
		25+39.99 to 25+43.04	LT			3.3			3.3					
		25+57.98 to 26+44.24	LT			91.2			91.2					
		25+74.63 to 26+31.93	RT			53.4			53.4					
0520 2 4	Concrete Curb, Type D	23+10.92 to 23+98.65	LT/RT		LF	286.4			286.4		286			
0520 2 8	Concrete Curb, Type RA	23+03.42 to 24+05.35	LT/RT		LF	333.0			333.0		333			

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SUMMARY OF QUANTITES

SHEET NO.
SQ-6

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6" 0522 2 SY P	CONC SIDEWALK 6" 0522 2 SY F	DETECTABLE WARNINGS 0527 2 SF P	DETECTABLE WARNINGS 0527 2 SF F	DESIGN NOTES	CONSTRUCTION REMARKS
9+72.05 to 9+82.15	LT	26171			5.4					
9+77.26 to 9+85.99	RT	26203			5.0					
10+14.11 to 17+70.29	RT	26212			678.8					
10+22.79 to 17+72.34	LT	26180			498.4					
18+29.71 to 23+34.23	RT	32797			532.6					
18+34.39 to 25+69.93	LT	33635			652.9					
22+55.10 to 22+70.23	LT/RT	26308			30.0					
22+65.68 to 22+82.62	LT/RT	34125			47.6					
23+39.61 to 23+69.63	RT	32113			46.4					
23+42.86 to 23+64.27	RT	32126			26.1					
23+78.56 to 23+82.71	RT	32158			5.7					
23+79.36 to 23+85.54	RT	32149			5.7					
23+81.54 to 23+97.02	RT	32139			15.6					
23+96.95 to 26+32.41	RT	34072			283.3					
24+30.16 to 24+43.32	LT/RT	34112			27.8					
24+39.86 to 24+53.82	LT/RT	26355			20.2					
9+75.56 to 9+82.15	LT	20456					14.6			
9+81.01 to 9+85.99	RT	20465					13.3			
10+18.51 to 10+23.10	RT	20474					9.9			
10+27.49 to 10+31.97	LT	20451					9.3			
17+63.93 to 17+70.29	RT	29184					10.8			
17+63.93 to 17+70.29	RT	20441					10.8			
17+64.18 to 17+72.34	LT	20446					14.2			
18+29.71 to 18+36.07	RT	20436					10.8			
18+34.39 to 18+43.87	LT	7021					16.2			
18+34.39 to 18+43.87	LT	26986					16.2			
21+61.34 to 21+71.15	LT	29256					16.5			
21+78.41 to 21+88.71	RT	29236					16.7			
22+43.92 to 22+55.22	LT	29262					20.0			
22+45.54 to 22+55.27	RT	29231					20.0			
22+54.86 to 22+65.53	LT	29248					20.0			
22+54.96 to 22+65.31	LT/RT	29241					20.0			
23+29.28 to 23+34.23	RT	29308					19.9			
23+42.38 to 23+46.99	RT	29300					19.9			
23+63.86 to 23+67.17	RT	29293					20.0			
23+96.77 to 24+01.33	RT	29287					20.3			
24+41.60 to 24+51.54	RT	7000					19.9			
24+43.76 to 24+54.00	LT	7007					19.9			
24+49.36 to 24+58.58	RT	29282					20.0			
24+57.32 to 24+68.28	LT	29267					20.0			
25+16.71 to 25+28.78	RT	29277					17.6			
25+29.25 to 25+39.67	LT	29272					17.7			
				SUB-TOTAL:	2881.5		434.5			
				TOTAL:	2882		435			

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NO.	DATE	BY	REVISIONS - DESCRIPTION

AIM ENGINEERING & SURVEYING, INC.
3802 CORPOREX PARK DRIVE STE. 225
TAMPA, FLORIDA 33619
TELEPHONE (888) 627-4144
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:
ADAM R. AGUILA, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 76008

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET
FORT MYERS, FLORIDA 33901
(239) 479-8900

SUMMARY OF QUANTITES

SHEET NO.
SQ-7

SUMMARY OF GUARDRAIL

LOCATION	SIDE	GUARDRAIL (W-BEAM, LOW SPEED, TL-2)		GUARDRAIL REMOVAL		TL-2 PARALLEL APPROACH TERMINAL		DESIGN NOTES	CONSTRUCTION REMARKS
		0536 1 0		0536 73		536 85 24			
STA. TO STA.		LF		LF		EA			
		P	F	P	F	P	F		
26+16.10 to 27+07.13	RT	91.0							
26+30.05 to 26+69.88	LT	39.8							
26+38.00 to 27+07.13	RT			66.2					
26+45.01 to 26+69.88	LT			26.1					
26+16.10	RT					1.0			
26+30.05	LT					1.0			
SUB-TOTAL:		130.8		92.3		2.0			
TOTAL:		131		92		2			

SUMMARY OF FENCING

PAY ITEM NO.	DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0550 10222	Fencing, Type B, 5.1- 6.0', w/ Vinyl Coating	24+00.83 to 27+35.45	RT		763.9		764			
0550 60225	Fence Gate, Type B, Double, 20.1-24.0' Opening	24+17.08 to 24+32.31	RT		1		1			

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SUMMARY OF QUANTITES

SHEET NO.
SQ-8

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SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
6+00.00 to 6+51.05	LT/RT	20623			42.0			
6+00.00 to 9+52.45	LT/RT	22328			705.7			
6+51.05 to 9+52.45	LT/RT	20579			182.5			
10+08.57 to 23+72.50	RT	27242			7469.9			
10+12.14 to 10+53.59	LT	27621			480.8			
10+54.76 to 17+68.07	LT/RT	5503			1026.3			
10+63.58 to 12+56.33	LT	27612			218.0			
12+17.36 to 15+77.52	LT	27165			842.7			
15+32.30 to 15+32.30	LT	27015			1361.4			
15+90.36 to 19+75.00	LT	27174			1099.6			
18+13.47 to 25+90.78	LT	36286			2079.6			
18+31.87 to 22+58.46	LT/RT	26595			906.9			
19+86.63 to 22+48.33	LT	27181			644.7			
21+69.51 to 22+44.75	LT	27119			30.0			
21+86.04 to 22+46.13	RT	27099			27.1			
22+53.64 to 24+59.09	LT	27126			85.9			
22+54.03 to 23+30.74	RT	27110			52.1			
22+65.68 to 22+82.62	LT/RT	36342			47.6			
22+73.04 to 24+86.76	LT	27190			373.4			
23+39.61 to 23+69.63	RT	36013			46.4			
23+46.37 to 23+67.22	RT	36002			50.4			
23+56.35 to 23+72.50	RT	27378			115.9			
23+74.75 to 23+97.52	RT	27371			144.7			
23+78.63 to 23+82.57	RT	27094			4.8			
23+82.25 to 23+97.02	RT	26661			14.5			
23+87.52 to 28+20.77	RT	27499			2599.6			
23+87.67 to 24+17.03	RT	27361			295.4			
23+98.65 to 23+98.65	RT	26626			725.3			
23+99.79 to 24+50.27	RT	27139			41.1			
24+30.16 to 24+43.32	LT/RT	36355			27.8			
24+51.08 to 25+28.17	LT/RT	26639			63.3			
24+58.17 to 25+19.20	RT	27148			25.6			
24+67.36 to 25+31.33	LT	27154			27.5			
200+10.96 to 202+52.15	LT/RT	31139			1239.9			
					49.0		From Sum. Of Side Drains Table	
					148.0		From Sum. Of Drainage Str. Table	
				SUB-TOTAL:	23295.4			
				TOTAL:	23295			

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SUMMARY OF QUANTITIES

SHEET NO.
SQ-9

SUMMARY OF UTILITIES

LOCATION	SIDE	UTILITY PIPE (DUCTILE IRON, 8" WATER)		UTILITY PIPE (STEEL, 14" CASING)		UTILITY PIPE (STEEL, 24" CASING)		FITTINGS (DUCTILE IRON, 8 - 19.9" ELBOW)		FITTINGS (DUCTILE IRON, 8 - 19.9" CAP)		FITTINGS (STEEL, 14" CAP)		FITTINGS (STEEL, 24" CAP)		FIXTURES (BLOWOFF ASSEMBLY, 2")		DESIGN NOTES	CONSTRUCTION REMARKS
		1050 51208		1050 61114		1050 61124		1055 11414		1055 51508		1055 61514		1055 61524		1080 25102			
STA. TO STA.		LF		LF		LF		EA		EA		EA		EA		EA			
		P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
6+82.00	LT/RT	120.0						2.0		1.0						1.0			
7+16.00	LT/RT			110.0								2.0							
10+31.00	LT/RT					160.0								2.0					
SUB-TOTAL:		120.0		110.0		160.0		2.0		1.0		2.0		2.0		1.0			
TOTAL:		120		110		160		2		1		2		2		1			

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SUMMARY OF QUANTITIES

SHEET NO.
SQ-10