

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 436551-2-52-01

MANATEE COUNTY (13040)

STATE ROAD NO. 684

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	DRAINAGE MAP
4 - 7	TYPICAL SECTIONS
8	SUMMARY OF DRAINAGE STRUCTURES
9	OPTIONAL MATERIALS TABULATION
10	PROJECT LAYOUT
11	GENERAL NOTES
12 - 17	ROADWAY PLAN-PROFILE
18 - 19	INTERSECTION DETAIL
20 - 26	DRAINAGE STRUCTURES
27	SPECIAL DETAILS
28	ROADWAY SOIL SURVEY
29	ROADWAY SOIL PROFILES
30	DRIVEWAY HALF-SECTIONS
31 - 45	CROSS SECTIONS
46 - 47	STORMWATER POLLUTION PREVENTION PLAN
48 - 62	TEMPORARY TRAFFIC CONTROL PLANS
63 - 68	UTILITY ADJUSTMENTS
69 - 70	VERIFIED UTILITY LOCATE SHEET
71 - 74	SHEET PILE WALLS
75 - 77	REPORT OF CORE BORINGS
SQ-1 - SQ-11	SUMMARY OF QUANTITIES

CTL-1 - CTL-2* PROJECT CONTROL

DEVELOPMENTAL STANDARD PLANS:

DS5591-001 LANDSCAPE IRRIGATION SLEEVES

* This sheet is included in the Index of Roadway Plans only to indicate that it is part of the Roadway Plans. This sheet is contained in a separate digitally signed and sealed document.

GOVERNING STANDARD PLANS:

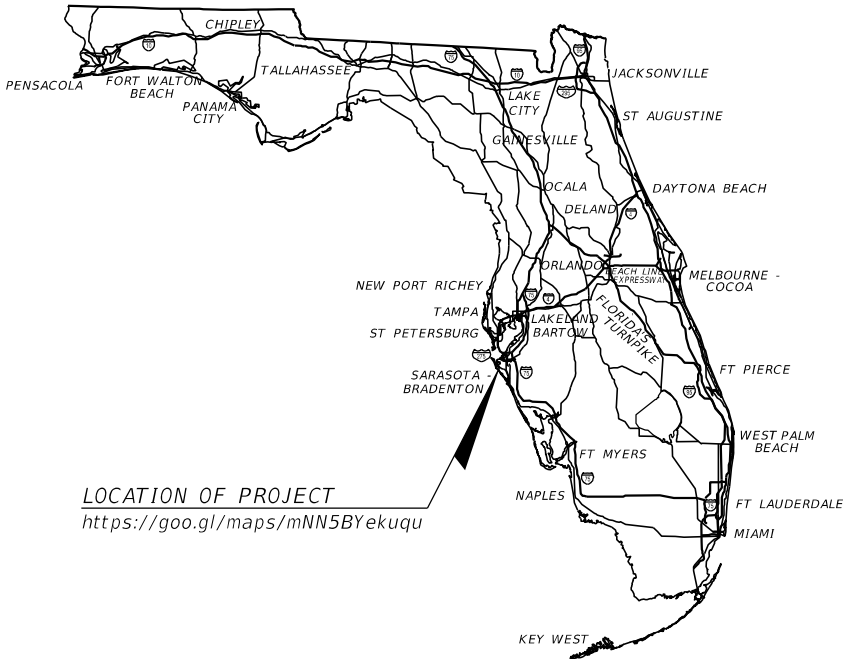
Florida Department of Transportation, FY 2018-19 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:

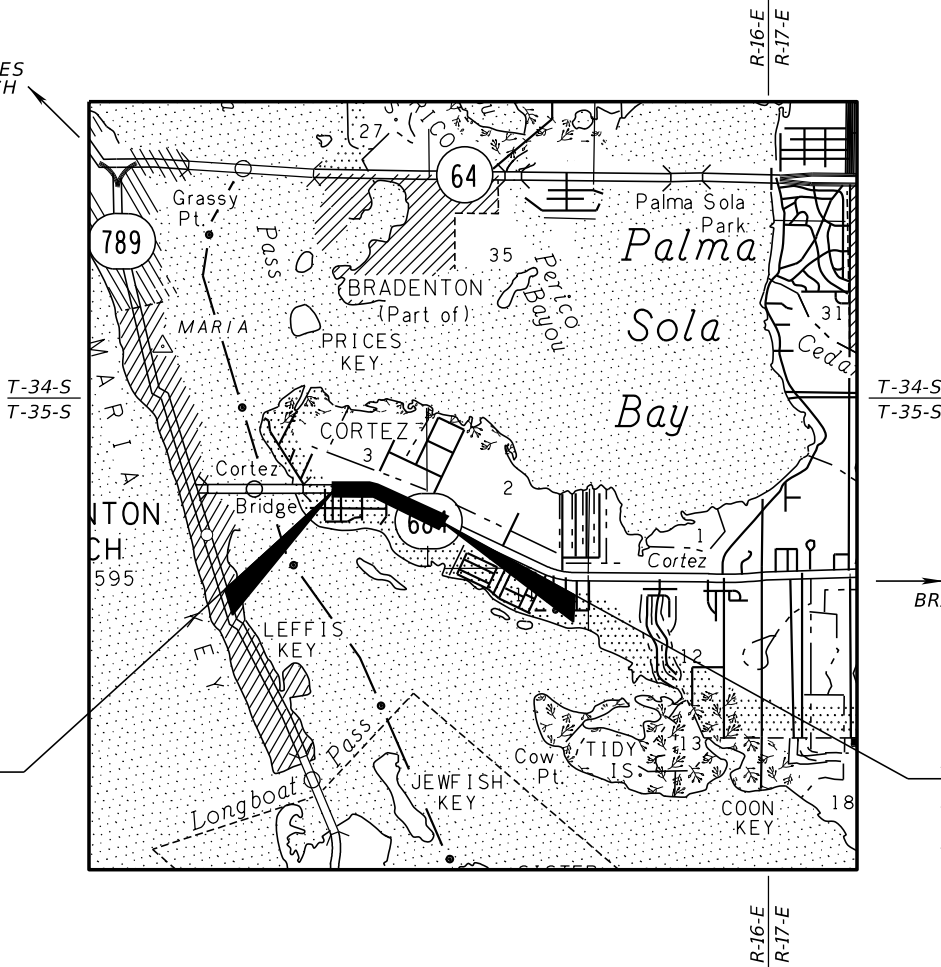
Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID(S):
436551-1-52-01, 436551-1-52-02



LOCATION OF PROJECT
<https://goo.gl/maps/mNN5BYekuqu>

TO
HOLMES
BEACH



TO
BRADENTON

BEGIN PROJECT
STA. 52+34.53
MP 0.839

END PROJECT
STA. 73+00.00
MP 1.297

ROADWAY PLANS

ENGINEER OF RECORD:

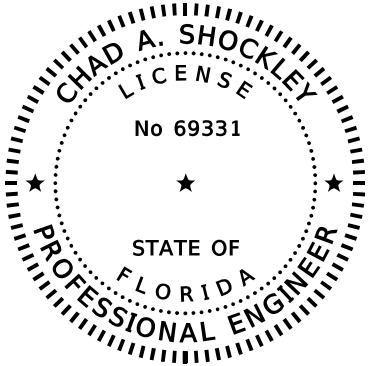
CHAD A. SHOCKLEY, P.E. NO. 69331
ATKINS NORTH AMERICA, INC.
482 S. KELLER ROAD
ORLANDO, FL 32810
(407) 647-7275
CONTRACT NO. C9L49
CONSULTANT VENDOR NO. F-590-896-138-001
CERTIFICATE OF AUTHORIZATION NO. : 24

FDOT PROJECT MANAGER:

RICHARD (MOSE) HOWARD, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1720	19	1

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Chad A
Shockley

Digitally signed by
Chad A Shockley
Date: 2019.03.19
14:32:51 -04'00'

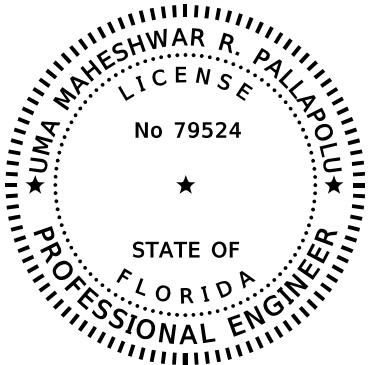
ON THE DATE ADJACENT TO THE SEAL.

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ATKINS NORTH AMERICA, INC.
482 S. KELLER ROAD
ORLANDO, FL 32810
(407) 647-7275
CERTIFICATE OF AUTHORIZATION: 24
CHAD A. SHOCKLEY, P.E. NO. 69331

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	KEY SHEET
2	SIGNATURE SHEET
4-7	TYPICAL SECTIONS
10	PROJECT LAYOUT
11	GENERAL NOTES
12-17	ROADWAY PLAN-PROFILE
18-19	INTERSECTION DETAIL
27	SPECIAL DETAILS
30	DRIVEWAY HALF-SECTIONS
31-45	CROSS SECTIONS
48-62	TEMPORARY TRAFFIC CONTROL PLANS
63-68	UTILITY ADJUSTMENTS
69-70	VERIFIED UTILITY LOCATE SHEET
SQ-1 - SQ-11	SUMMARY OF QUANTITIES



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Uma
Maheshwar
R Pallapolu

Digitally signed by
Uma Maheshwar R
Pallapolu
Date: 2019.03.19
14:22:08 -04'00'

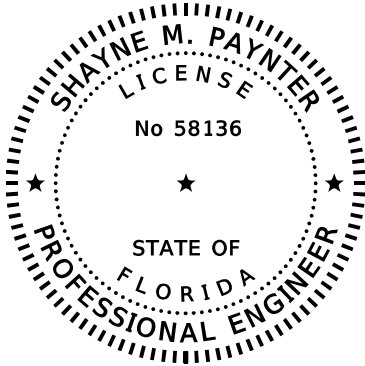
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ATKINS NORTH AMERICA, INC.
4030 W BOY SCOUT BLVD STE 700
TAMPA, FL 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION: 24
UMA MAHESHWAR R. PALLAPOLU, P.E. NO. 79524

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
71 - 74	SHEET PILE WALLS



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Shayne
Paynter

Digitally signed by
Shayne Paynter
Date: 2019.03.19
14:07:43 -04'00'

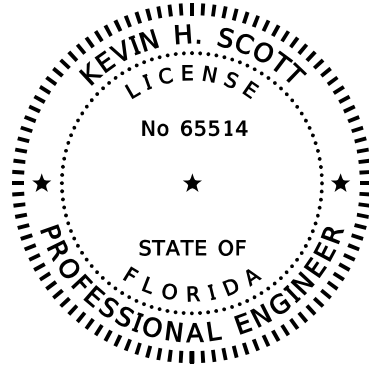
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ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD. STE. 700
TAMPA, FL 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION: 24
SHAYNE M. PAYNTER, P.E. NO. 58136

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
3	DRAINAGE MAP
8	SUMMARY OF DRAINAGE STRUCTURES
9	OPTIONAL MATERIALS TABULATION
20-26	DRAINAGE STRUCTURES
46-47	STORMWATER POLLUTION PREVENTION PLAN



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Kevin H Scott

2019.03.19 13:51:38
-04'00'

ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE
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AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
CERTIFICATE OF AUTHORIZATION: 6486
KEVIN H. SCOTT, P.E. NO. 65514

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

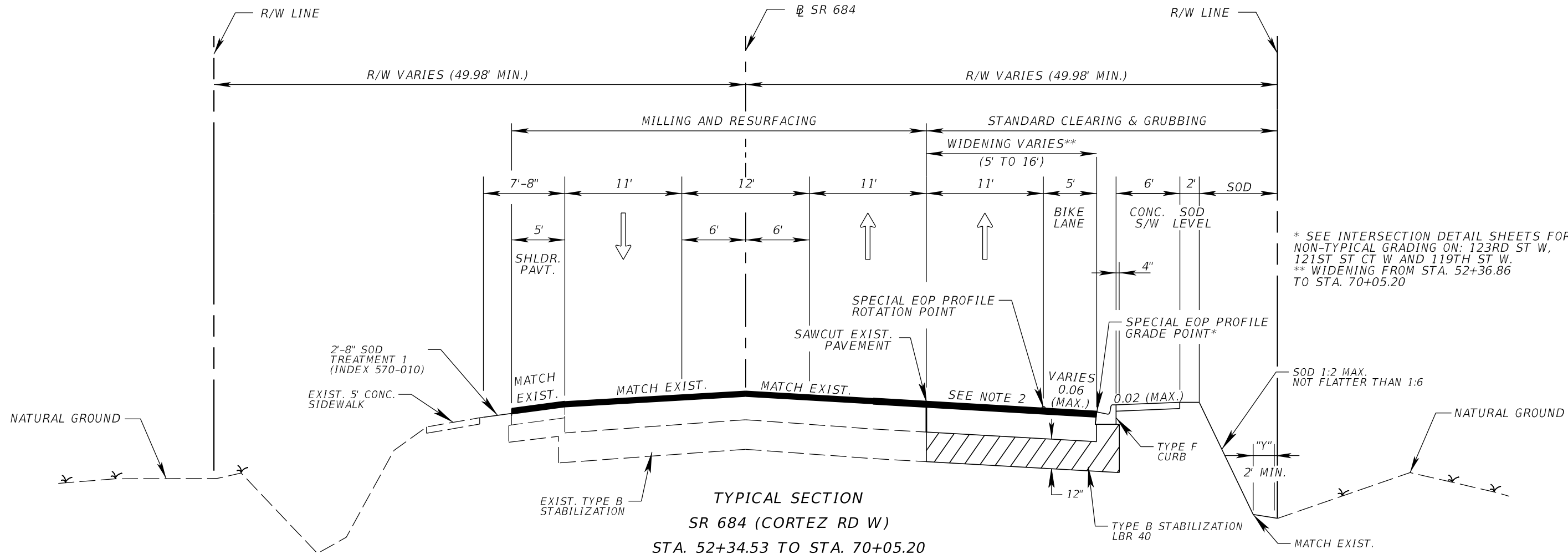
<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
28	ROADWAY SOIL SURVEY
29	ROADWAY SOIL PROFILES
75 - 77	REPORT OF CORE BORINGS

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		2



REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION No. 24 Shayne M. Paynter, P.E. No. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE MAP	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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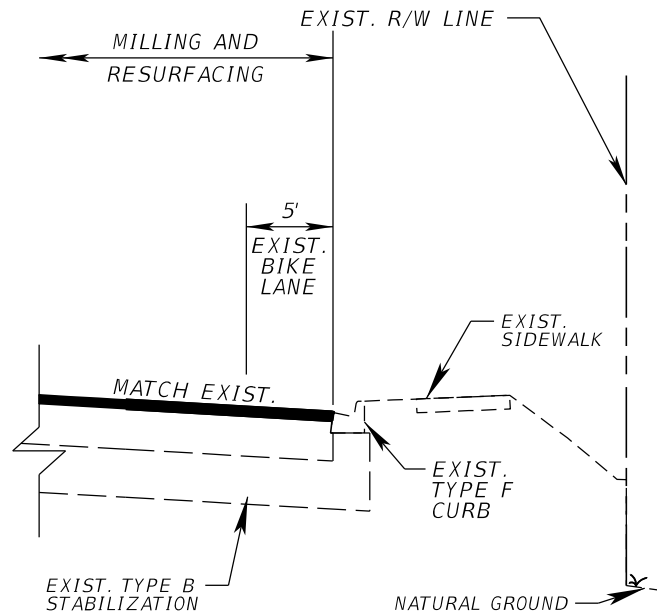
* SEE INTERSECTION DETAIL SHEETS FOR
NON-TYPICAL GRADING ON: 123RD ST W,
121ST ST CT W AND 119TH ST W.
** WIDENING FROM STA. 52+36.86
TO STA. 70+05.20

WIDENING
OPTIONAL BASE GROUP 10 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3 1/2") AND
FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2") (PG 76-22)

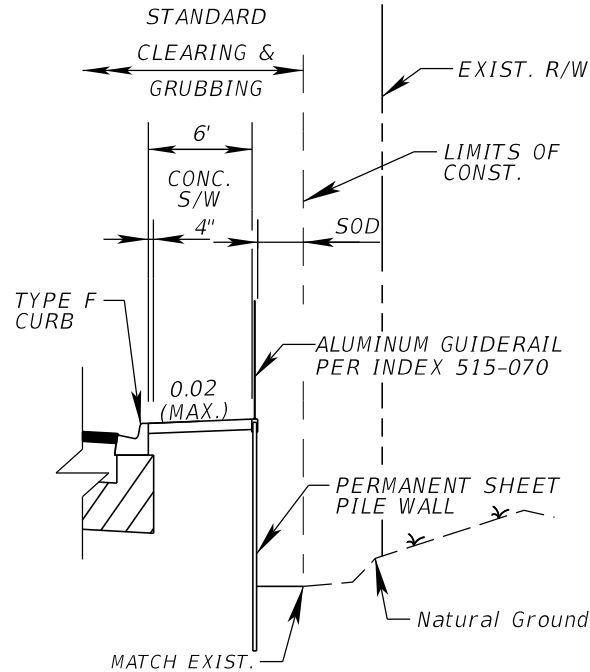
MILLING AND RESURFACING
MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2") (PG 76-22)

TRAFFIC DATA
CURRENT YEAR = 2018 AADT = 23,900
ESTIMATED OPENING YEAR = 2019 AADT = 24,300
ESTIMATED DESIGN YEAR = 2039 AADT = 33,400
K = 9.0% D = 52.9% T = 3.9% (24 HOUR)
DESIGN HOUR T = 1.95%
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

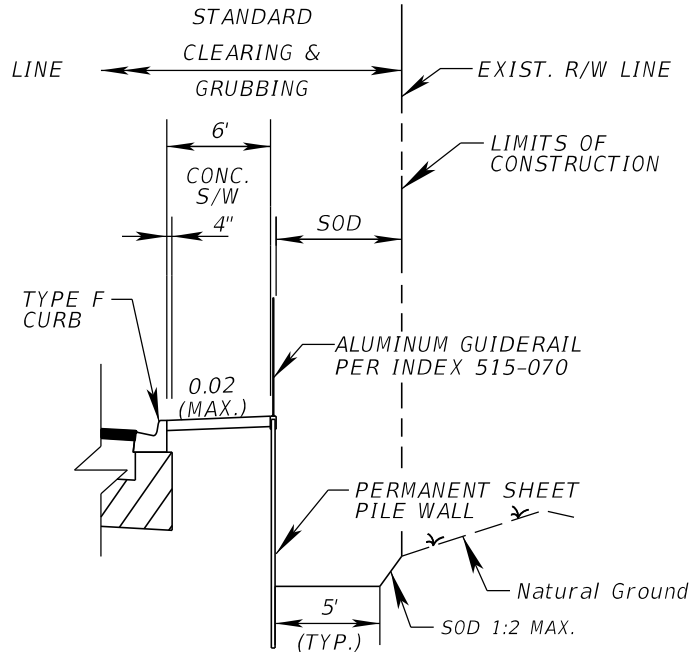
- NOTES:
- 1) ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION
 - 2) MATCH ADJACENT MILLED AND RESURFACED PAVEMENT CROSS SLOPE.



PARTIAL SECTION
SR 684 (CORTEZ RD W)
STA. 50+80.00 TO STA. 52+34.53
STA. 70+05.20 TO STA. 73+00.00

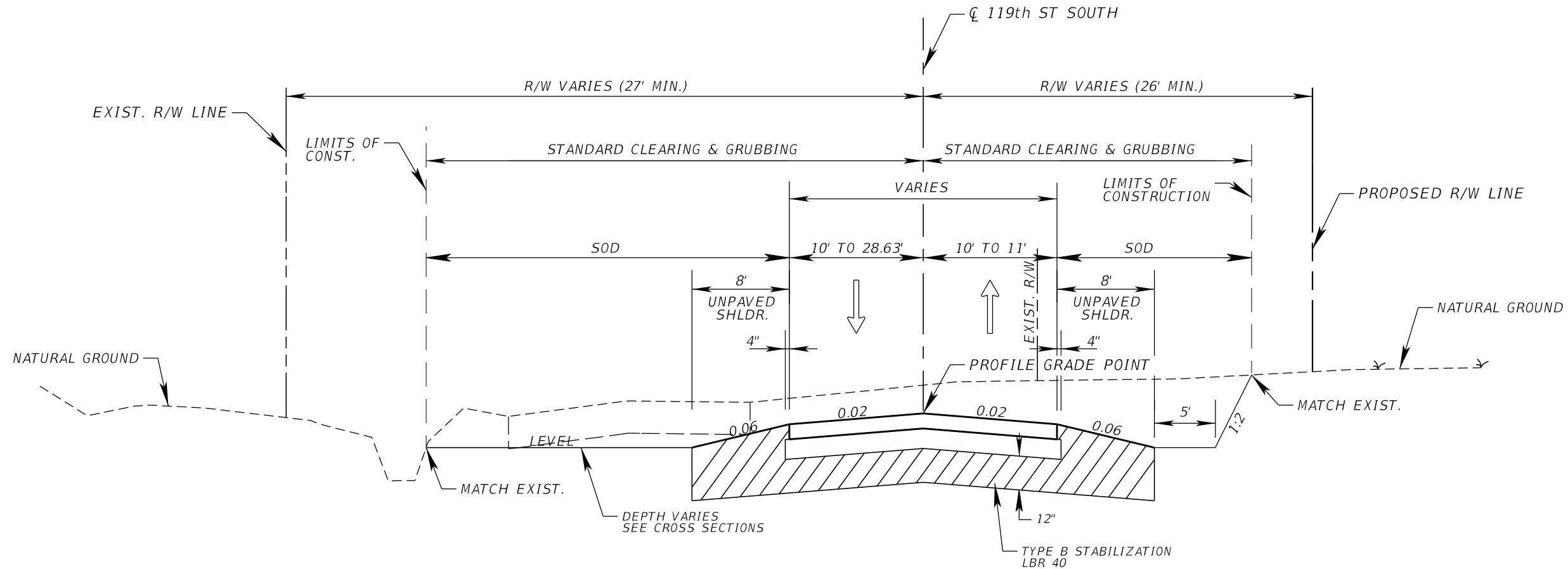


PARTIAL SECTION
SR 684 (CORTEZ RD W)
STA. 67+70.89 TO STA. 69+55.41



PARTIAL SECTION
SR 684 (CORTEZ RD W)
STA. 52+65.76 TO 56+90.00

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS (1)	SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		



TYPICAL SECTION

119th ST W

STA. 197+30.00 TO STA. 199+66.83

DESIGN SPEED = 20 MPH

POSTED SPEED = 20 MPH

NEW CONSTRUCTION

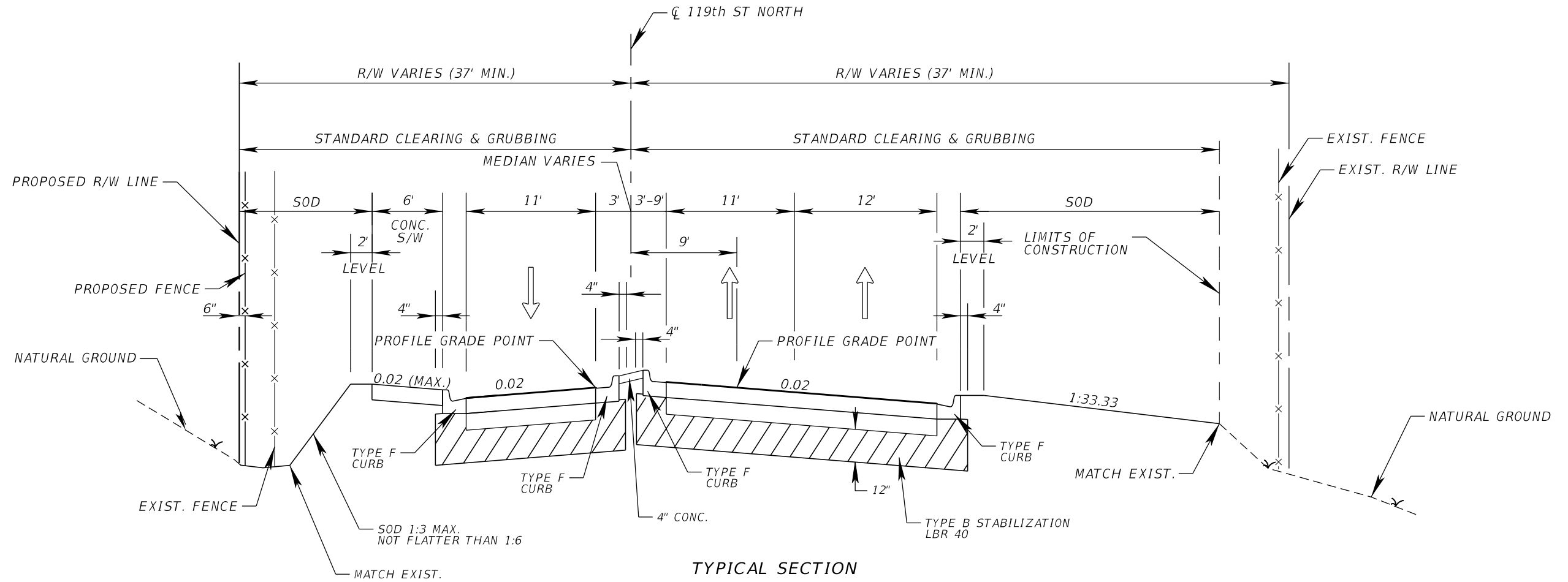
OPTIONAL BASE GROUP 10 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3 1/2") AND
FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2") (PG 76-22)

MILLING AND RESURFACING

STA. 197+30.00 TO STA. 197+45.00

MILL EXISTING ASPHALT PAVEMENT (1 1/2")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2") (PG 76-22)

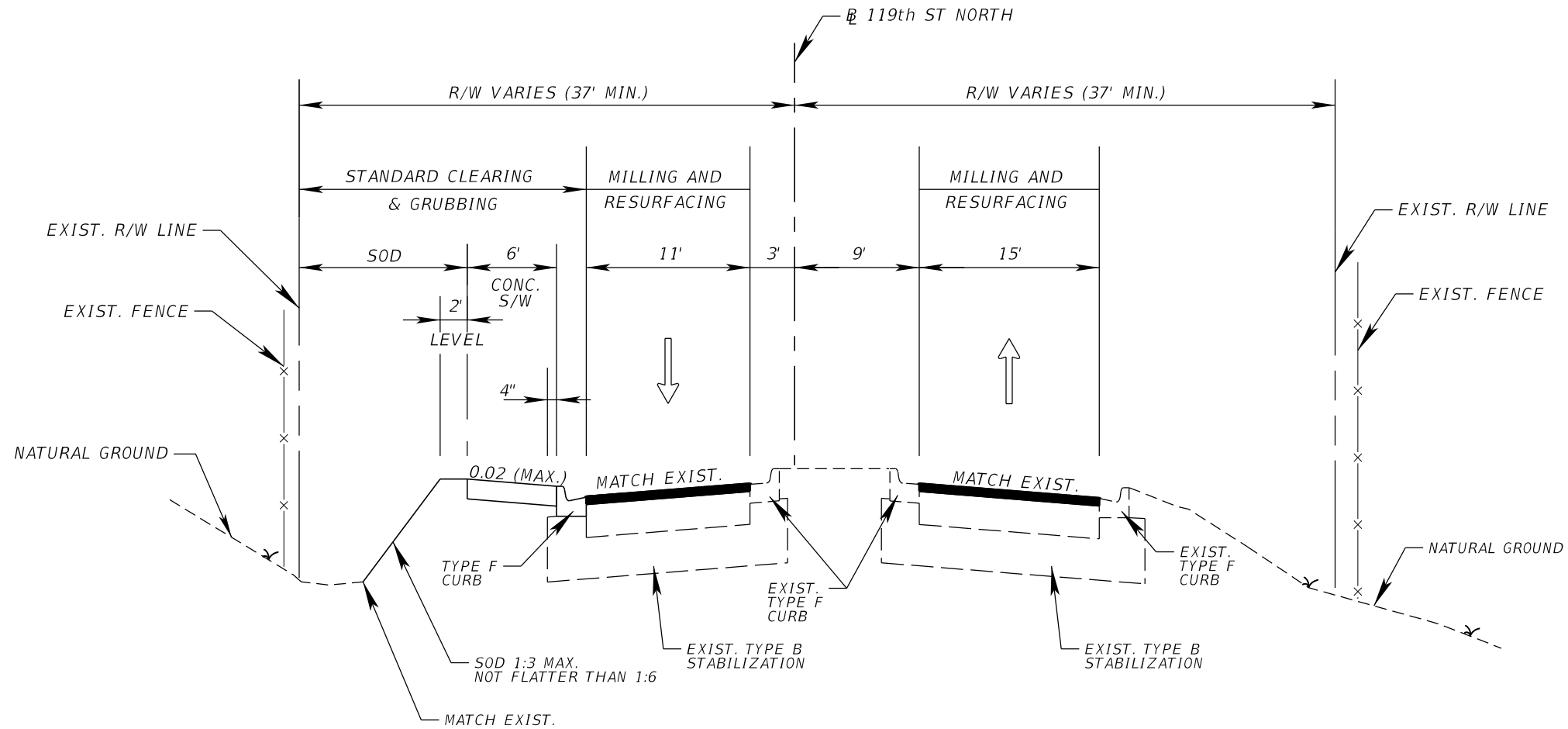
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		5



TYPICAL SECTION
119th ST W
STA. 100+22.00 TO STA. 103+31.38
 DESIGN SPEED = 25 MPH
 POSTED SPEED = 25 MPH

NEW CONSTRUCTION
 OPTIONAL BASE GROUP 10 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3 1/2") AND
 FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2") (PG 76-22)

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		6
					SR 684	MANATEE	436551-2-52-01		



TYPICAL SECTION
119th ST W
STA. 103+31.38 TO STA. 104+53.10
 DESIGN SPEED = 20 MPH
 POSTED SPEED = 20 MPH

MILLING AND RESURFACING
 MILL EXISTING ASPHALT PAVEMENT (1 1/2")
 FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2") (PG 76-22)

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		7

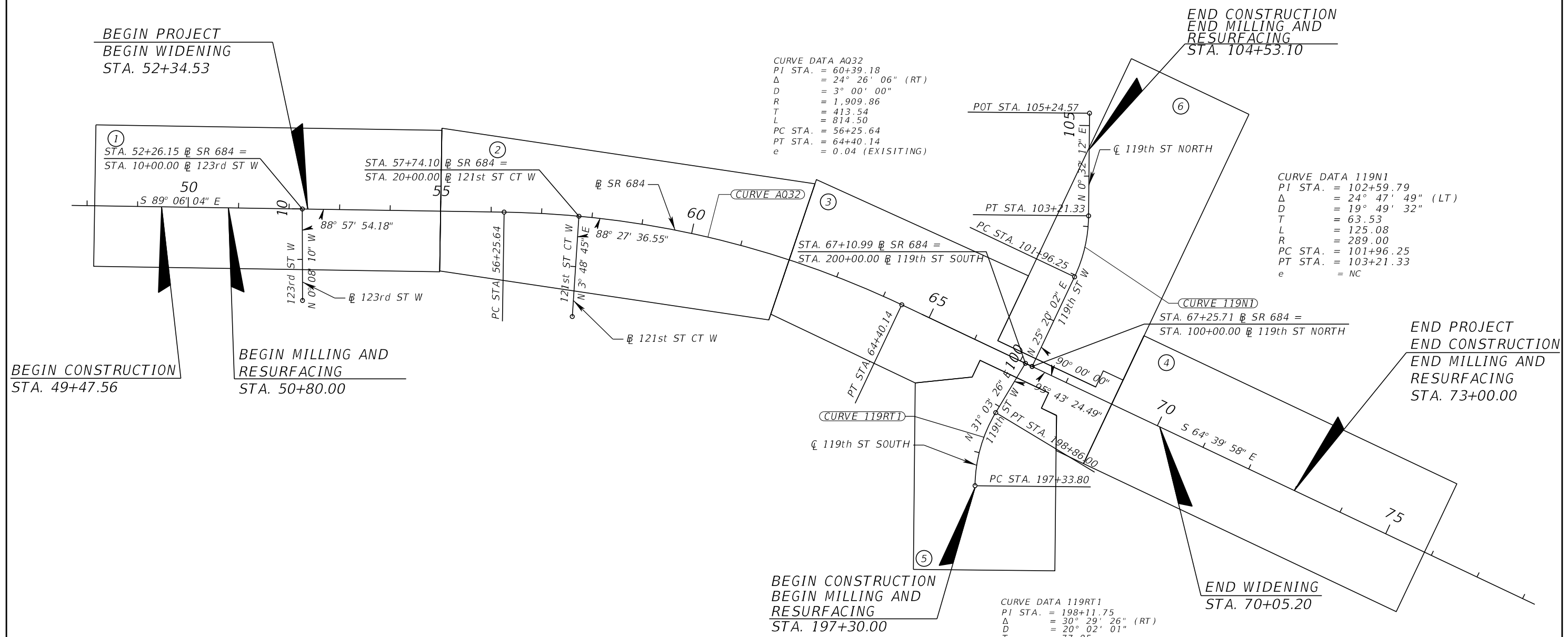
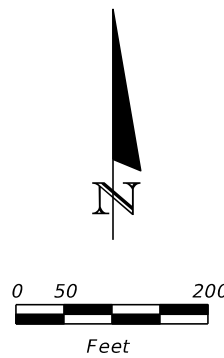
QUANTITY	STR. NO.	STATION		SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL TYPE				CURB INLETS		GUTTER INLET	FILL AND PLUGGING PIPE - PLACE OUT OF SERVICE CY	DITCH BOTTOM INLETS	FLUME INLET TYPE		CONCRETE CLASS I ENDWALL	SAND CEMENT RIPRAP	PERFORMANCE TURF	REMARKS
							12"	18"	48"	60"	J-5 <10'	J-6 <10'	TYPE J-V <10'		DBI TYPE C <10'	TYPE I	TYPE II	CY	CY	SY	
P	S-1	53+50.00	BL SR 684	RT.	INLET, PIPE	1			96			1									J BOTTOM 3.5'X9'
F																					
P	S-1A	54+50.00	BL SR 684	RT.	INLET, PIPE	1			146			1									J BOTTOM 3.5'X9'
F																					
P	S-2	56+00.00	BL SR 684	RT.	INLET, PIPE	1			95			1									J BOTTOM 3.5'X9'
F																					
P	S-3	57+00.00	BL SR 684	RT.	INLET, PIPE	1			104			1									J BOTTOM 3.5'X9'
F																					
P	S-4	NOT USED																			
F																					
P	S-5	58+08.74	BL SR 684	RT.	INLET, PIPE	1			86		1										J BOTTOM 3.5'X6'
F																					
P	S-6	59+00.00	BL SR 684	RT.	INLET, PIPE	1			145			1									J BOTTOM 3.5'X6'
F																					
P	S-6A	59+00.00	BL SR 684	RT.	INLET, PIPE	1		10							1			2.3	1.1	6	INCLUDES SPECAIL CONCRETE ENDWALL
F																					
P	S-7	60+50.00	BL SR 684	RT.	INLET, PIPE	1			95			1									J BOTTOM 3.5'X6'
F																					
P	S-7A	60+50.00	BL SR 684	RT.	INLET, PIPE	1		10							1			2.3	1.1	6	INCLUDES SPECAIL CONCRETE ENDWALL
F																					
P	S-7B	61+84.00	BL SR 684	RT.	INLET, PIPE	1		12							1			2.3	1.1	6	CONCRETE COLLAR FOR STUB PIPE
F																					INCLUDES SPECAIL CONCRETE ENDWALL
P	S-7C	61+50.00	BL SR 684	RT.	INLET, PIPE	1			114				1								J BOTTOM 3.5'X6'
F																					
P	S-8	62+70.00	BL SR 684	RT.	INLET, PIPE	1			85			1									J BOTTOM 3.5'X6'
F																					
P	S-8A	62+79.00	BL SR 684	RT.	INLET, PIPE	1		14							1			2.3	1.1	6	INCLUDES SPECAIL CONCRETE ENDWALL
F																					
P	S-9	63+61.00	BL SR 684	RT.	INLET, PIPE	1			185			1									J BOTTOM 3.5'X6'
F																					
P	S-9A	63+61.00	BL SR 684	RT.	INLET, PIPE	1		10							1			2.3	1.1	6	INCLUDES SPECAIL CONCRETE ENDWALL
F																					
P	S-9B	64+88.00	BL SR 684	RT.	PIPE	1	10														CONCRETE COLLAR FOR STUB PIPE
F																					
P	S-10	65+50.00	BL SR 684	LT.	INLET, PIPE	1			246			1									J BOTTOM 3.5'X6'
F																					
P	S-10A	65+50.00	BL SR 684	RT.	INLET, PIPE	1		11							1			2.3	1.1	6	INCLUDES SPECAIL CONCRETE ENDWALL
F																					
P	S-11	NOT USED																			
F																					
P	S-12	68+00.00	BL SR 684	RT.	INLET, PIPE	1				165		1									J BOTTOM 3.5'X9' / CONC. JACKET
F																					
P	S-13 TO S-19	NOT USED																			
F																					
P	S-20	199+39.32	BL 119TH SOUTH	LT.	INLET											1					
F																					
P	S-21	199+42.60	BL 119TH SOUTH	RT.	INLET												1				
F																					
P	S-21A	67+89.08	BL SR 684	LT.	INLET											1					
F																					
P	S-22	101+13.00	BL 119TH NORTH	RT.	INLET												1				
F																					
P	S-23	101+13.00	BL 119TH NORTH	LT.	INLET											1					
F																					
P	S-24	102+00.00	BL 119TH NORTH	RT.	INLET												1				
F																					
P	S-25	102+00.00	BL 119TH NORTH	LT	INLET											1					
F																					
P	EX-9	58+40.00	BL SR 684	RT	PIPE	1								14.36							PLAN AND PROFILE SHEET (2)
F																					
P	EX-14	60+00.00	BL SR 684	RT	PIPE	1								8.84							PLAN AND PROFILE SHEET (2)
F																					
P																					
F																					
P																					
F																					
P																					
F																					
P																					
F																					
SHEET TOTALS					PLAN QUANTITY		10	67	1397	165	1	10	1	23	6	4	3	14	7	36	
GRAND TOTALS					FINAL QUANTITY																
					PLAN QUANTITY		10	67	1397	165	1	10	1	23	6	4	3	14	7	36	
					FINAL QUANTITY																

REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRAINAGE STRUCTURES		SHEET NO. 8
DATE	DESCRIPTION		DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

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

[illegible]

REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			OPTIONAL MATERIALS TABULATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		9
					SR 684	MANATEE	436551-2-52-01		



REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
2. SPECIAL EVENTS FOR THIS PROJECT INCLUDE

A. CORTEZ COMMERCIAL FISHING FESTIVAL LOCATED ON CORTEZ VILLAGE IN BRADENTON FLORIDA. THE FESTIVAL IS HELD FROM FEBRUARY 16-17.

B. SAND BLAST FESTIVAL LOCATED SOUTH OF THE BEACH HOUSE RESTAURANT. THE EVENT TAKES PLACE EVERY NOVEMBER.

C. ANNUAL HOLIDAY PRELUDE LOCATED AT THE CLOCK TOWER AREA ON THE HISTORIC BRIDGE STREET. THE EVENT TAKES PLACE EARLY DECEMBER.

D. FOURTH OF JULY PARADE.

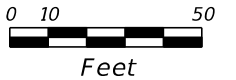
E. SANTA CLAUSE PARADE.

F. BRADENTON BEACH BRIDGE STREET FESTIVAL.
3. NOTIFY PROPERTY OWNERS AT LEAST TWO WEEKS PRIOR TO LANDSCAPE REMOVAL ON 119TH STREET W.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		11

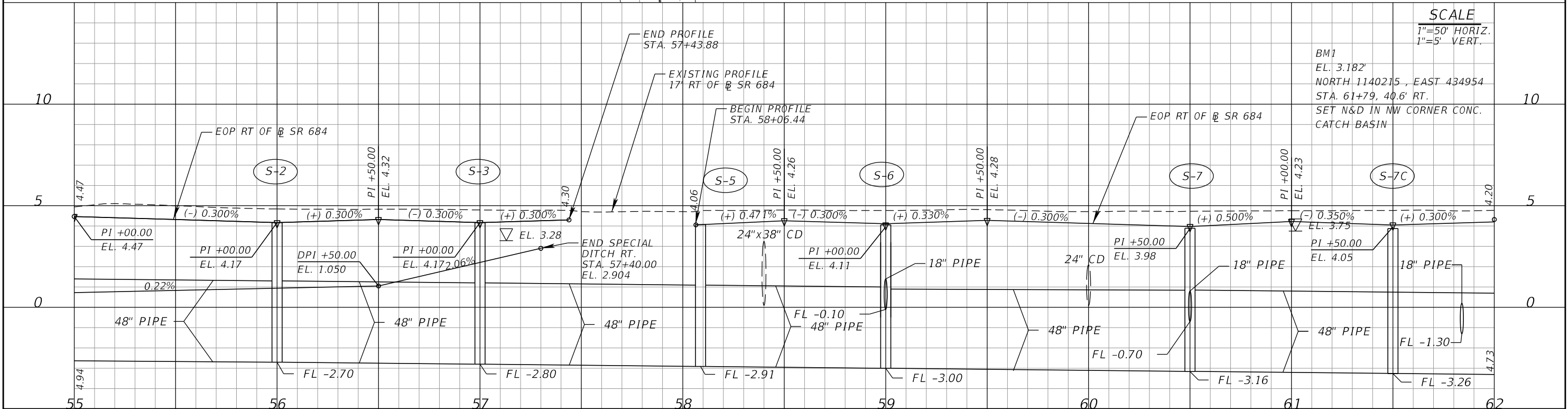
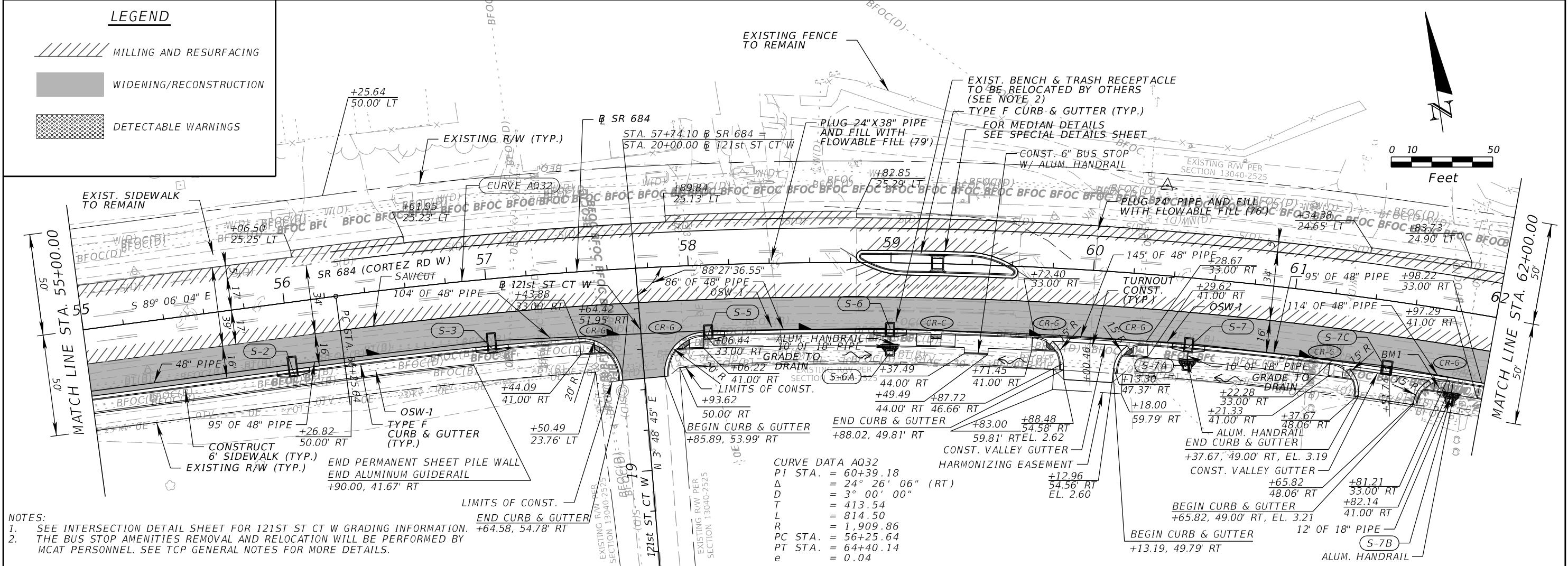
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DETECTABLE WARNINGS

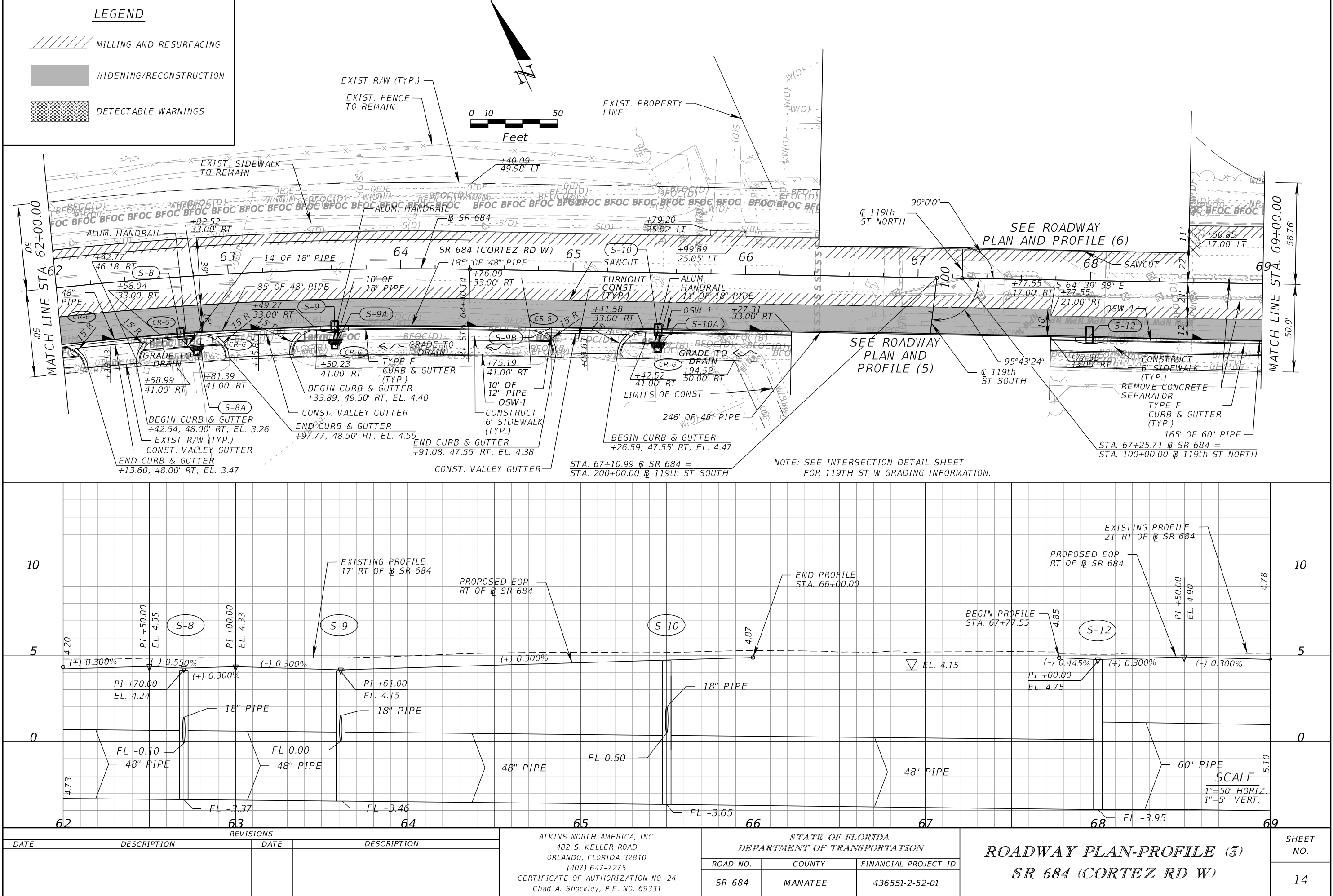


SCALE
1"=50' HORIZ.
1"=5' VERT.

2



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

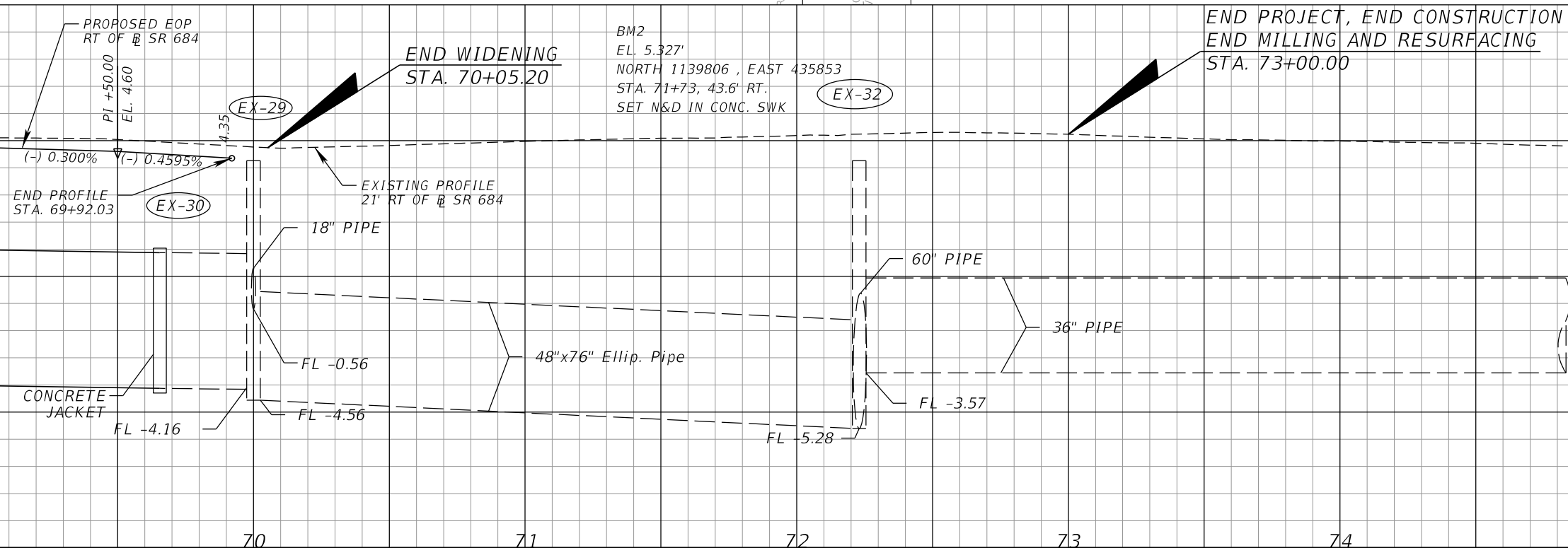
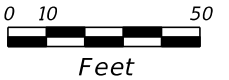
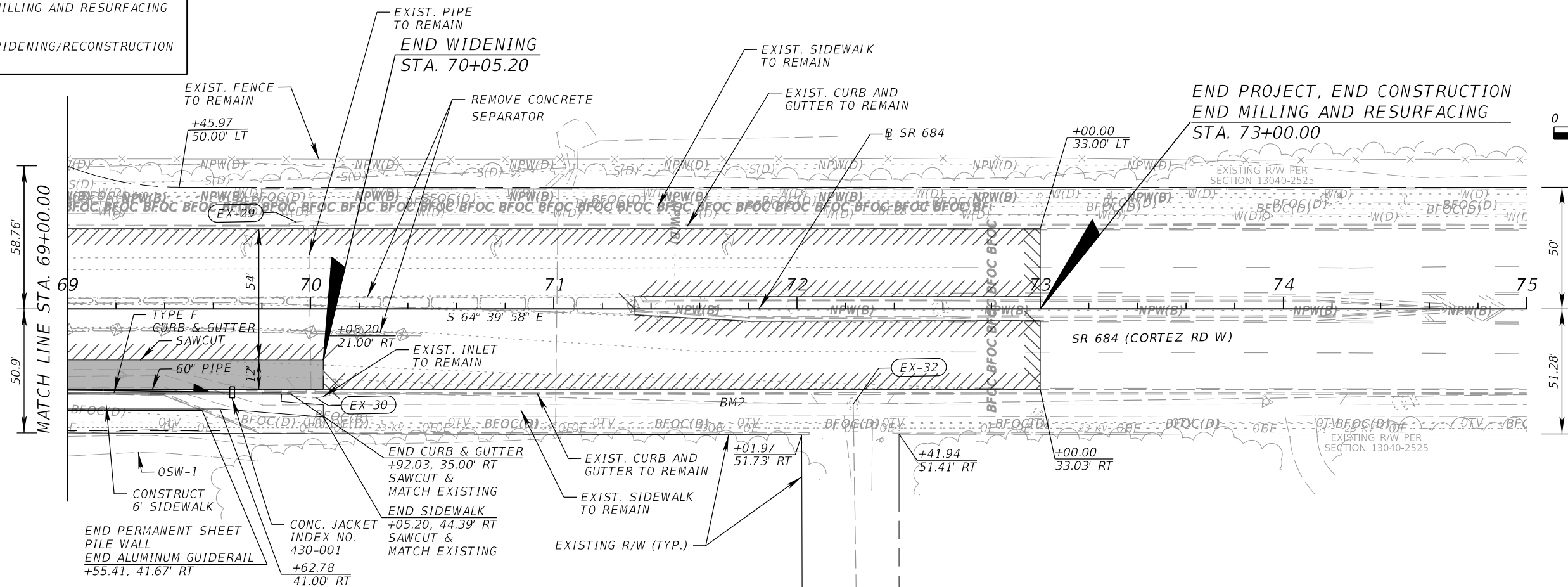


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEGEND

////// MILLING AND RESURFACING

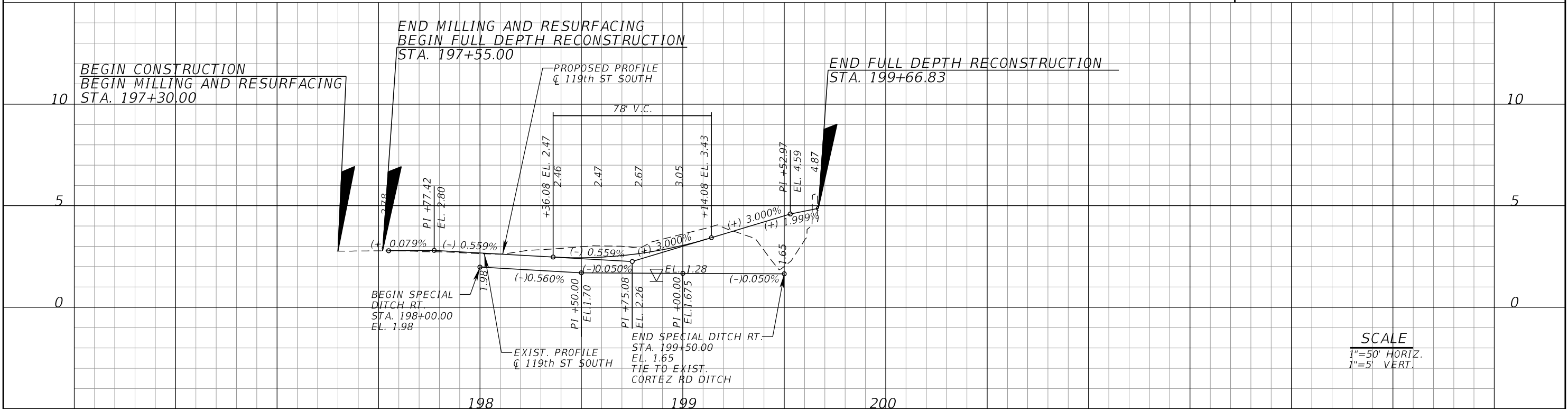
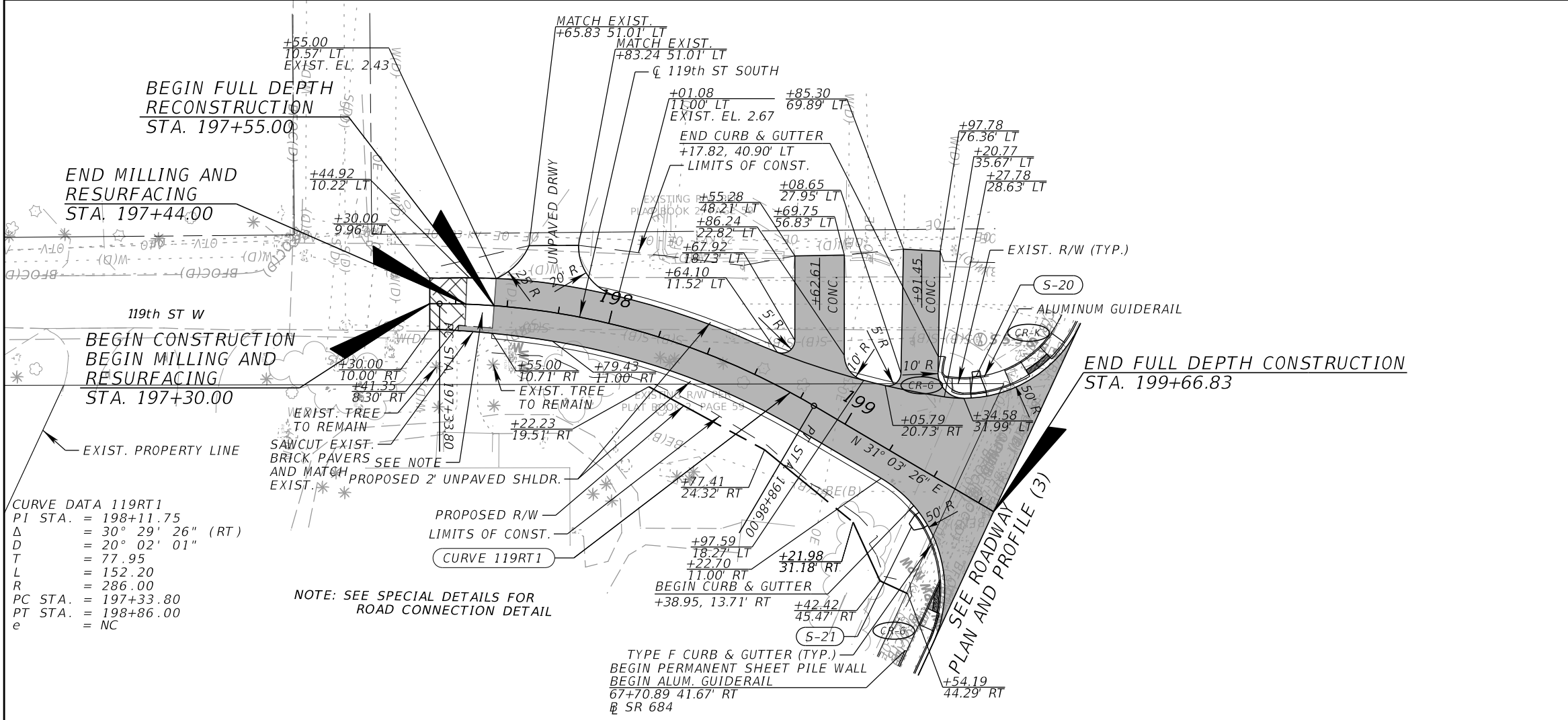
WIDENING/RECONSTRUCTION



SCALE
1"=50' HORIZ.
1"=5' VERT.

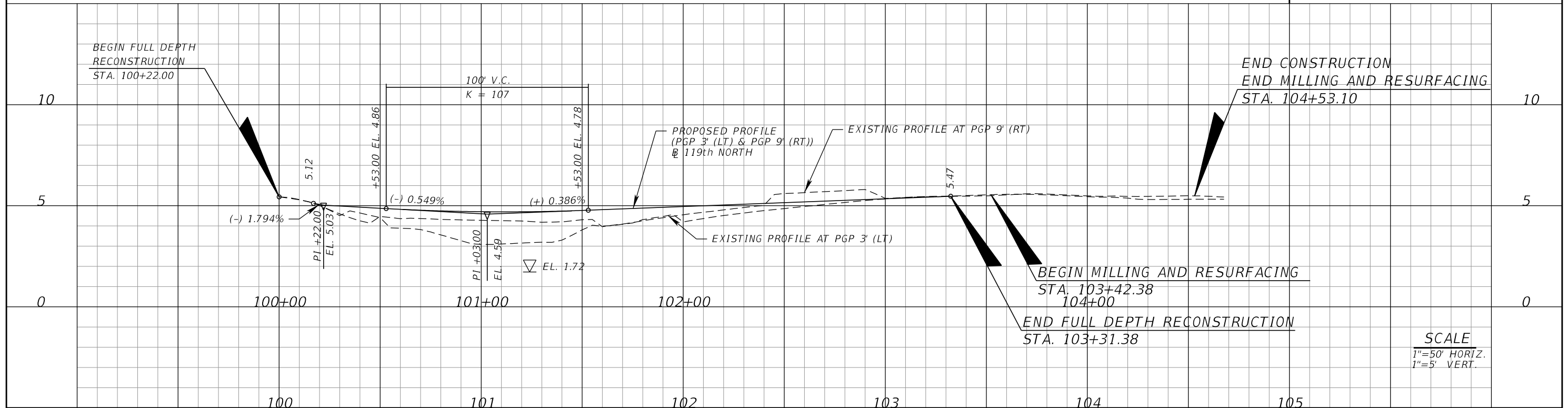
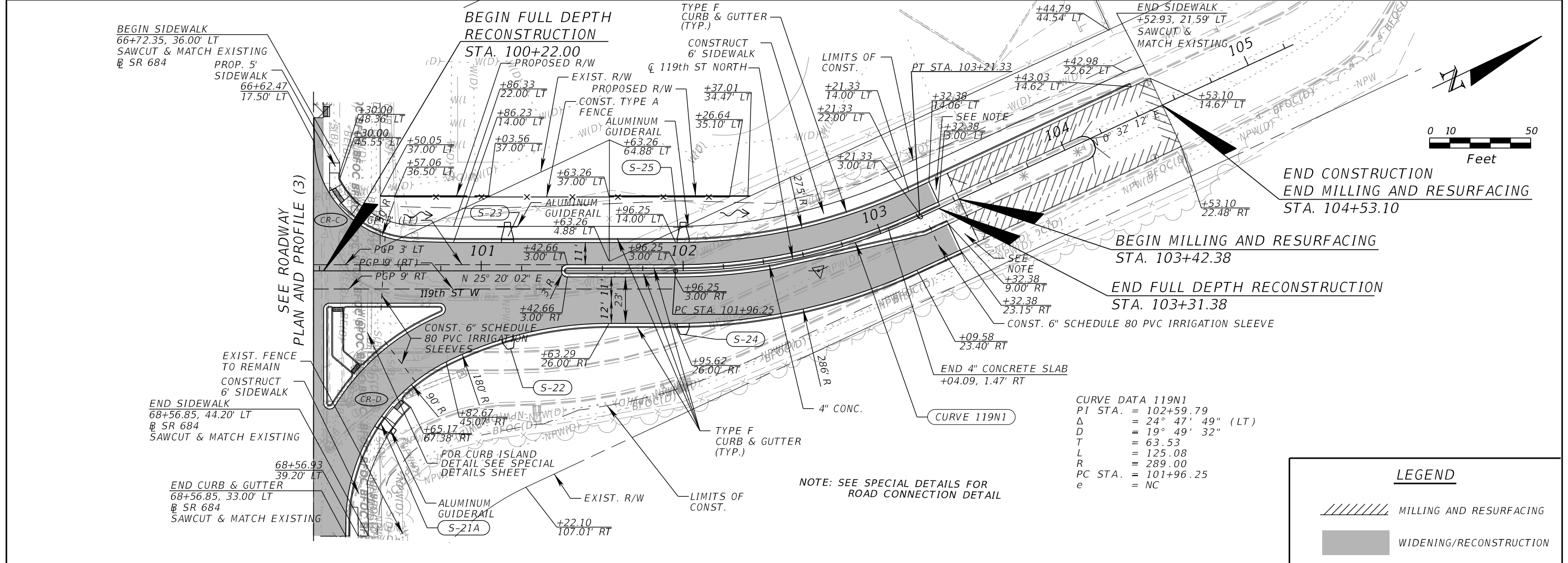
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN-PROFILE (4) SR 684 (CORTEZ RD W)	SHEET NO. 15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



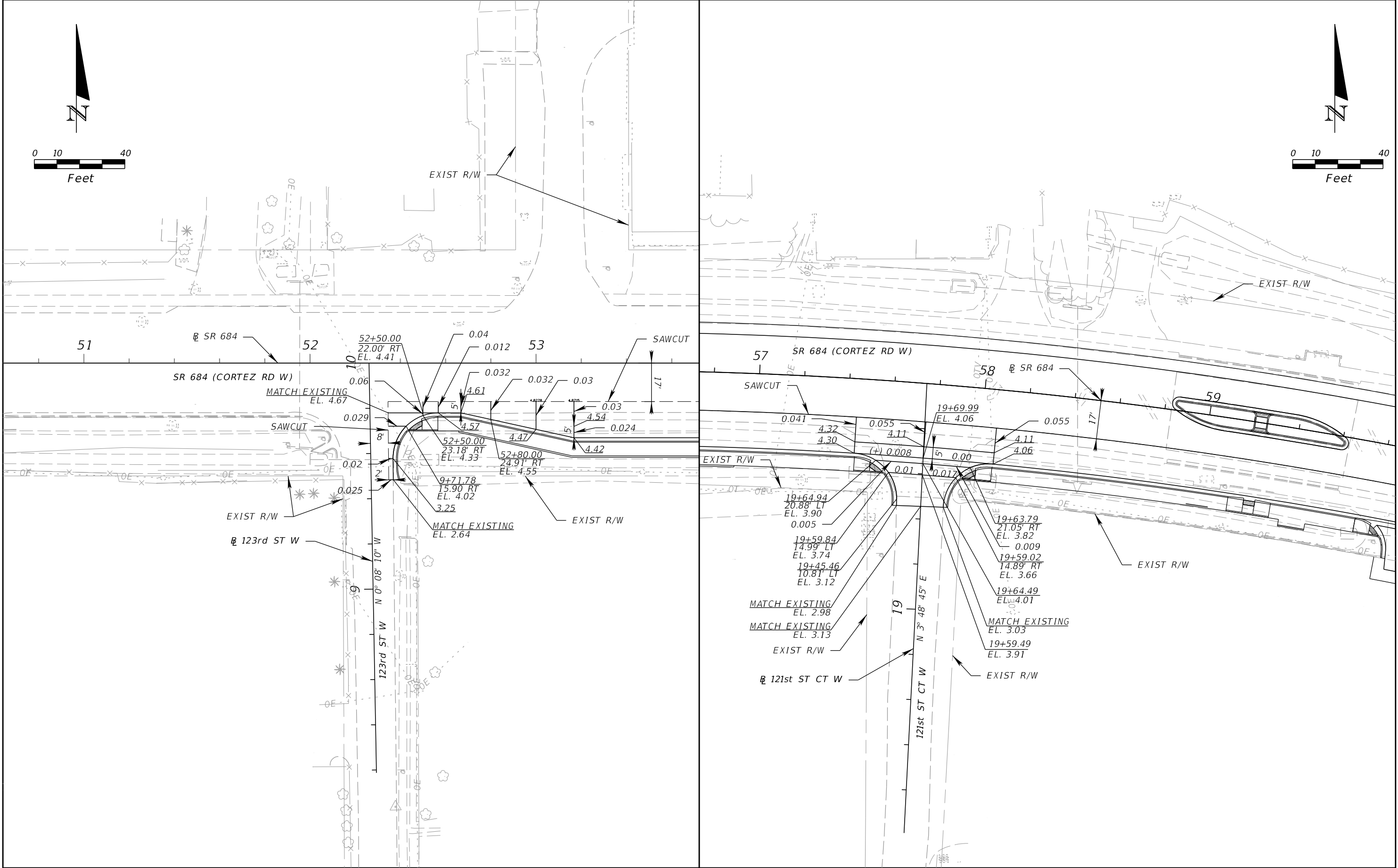
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN-PROFILE (5) 119TH ST W	SHEET NO. 16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



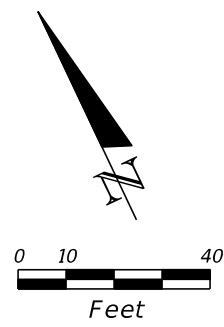
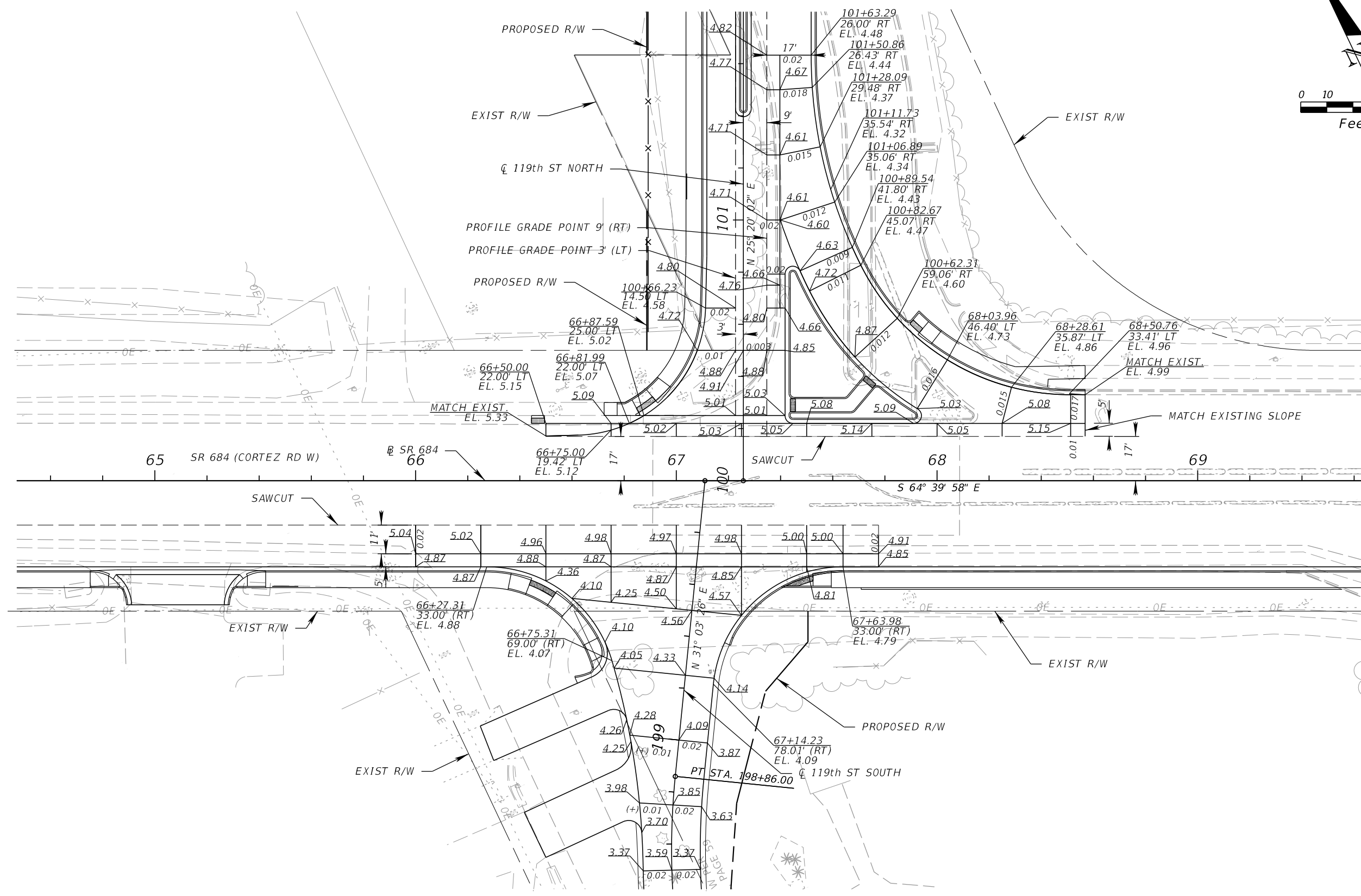
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN-PROFILE (6) 119TH ST W	SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			INTERSECTION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		18

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

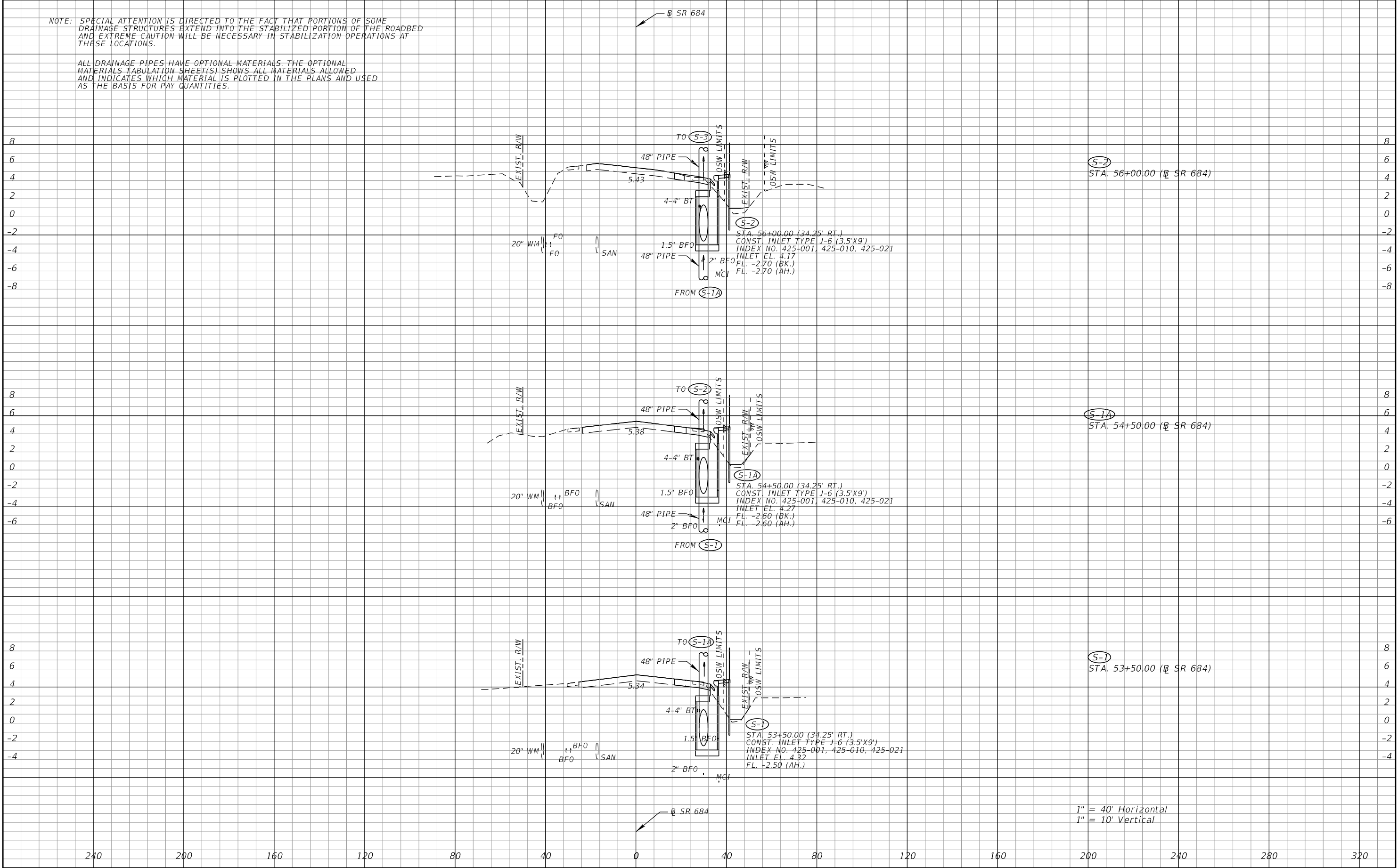


REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			INTERSECTION DETAIL	SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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

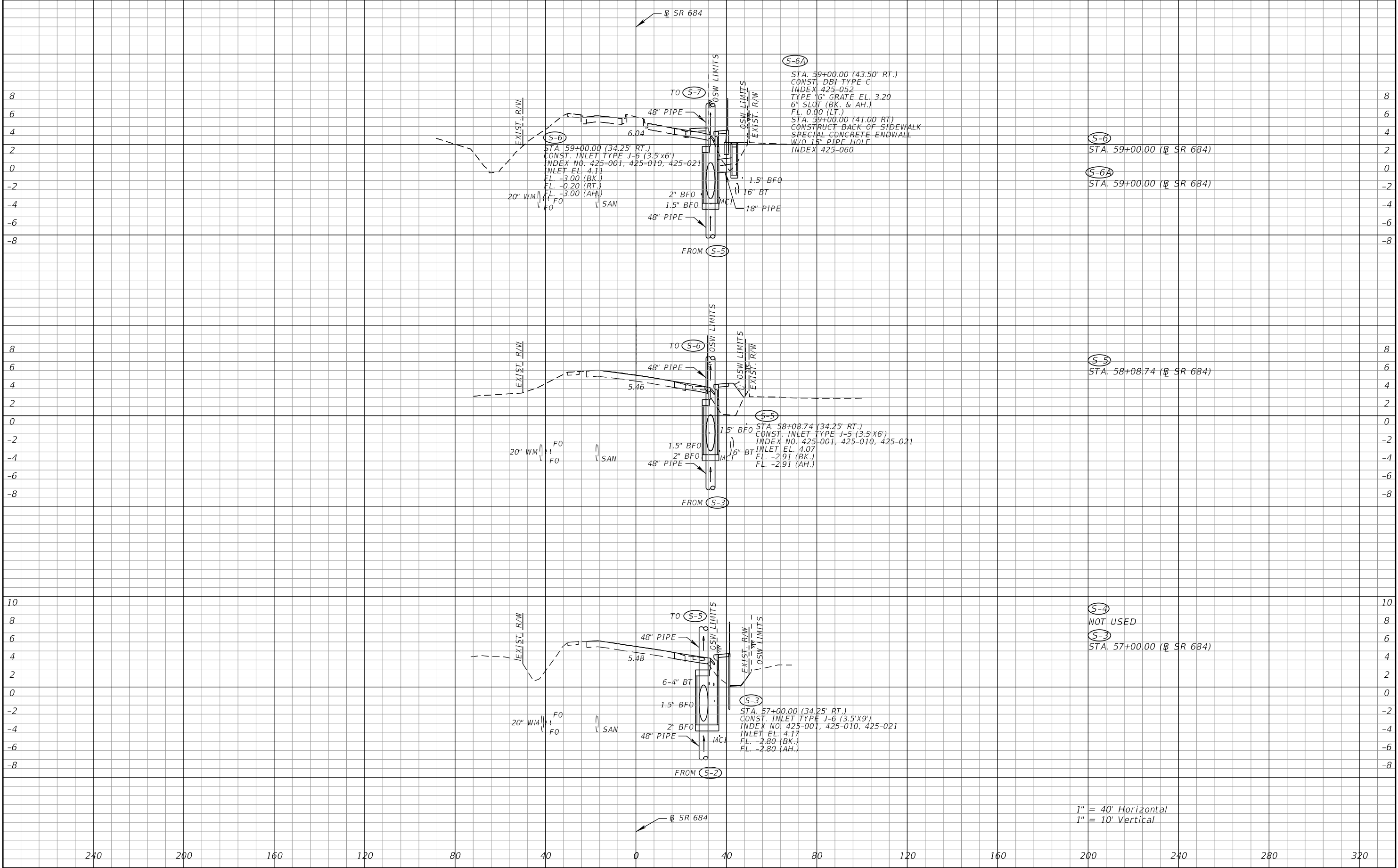
NOTE: SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.

ALL DRAINAGE PIPES HAVE OPTIONAL MATERIALS. THE OPTIONAL MATERIALS TABULATION SHEET(S) SHOWS ALL MATERIALS ALLOWED AND INDICATES WHICH MATERIAL IS PLOTTED IN THE PLANS AND USED AS THE BASIS FOR PAY QUANTITIES.



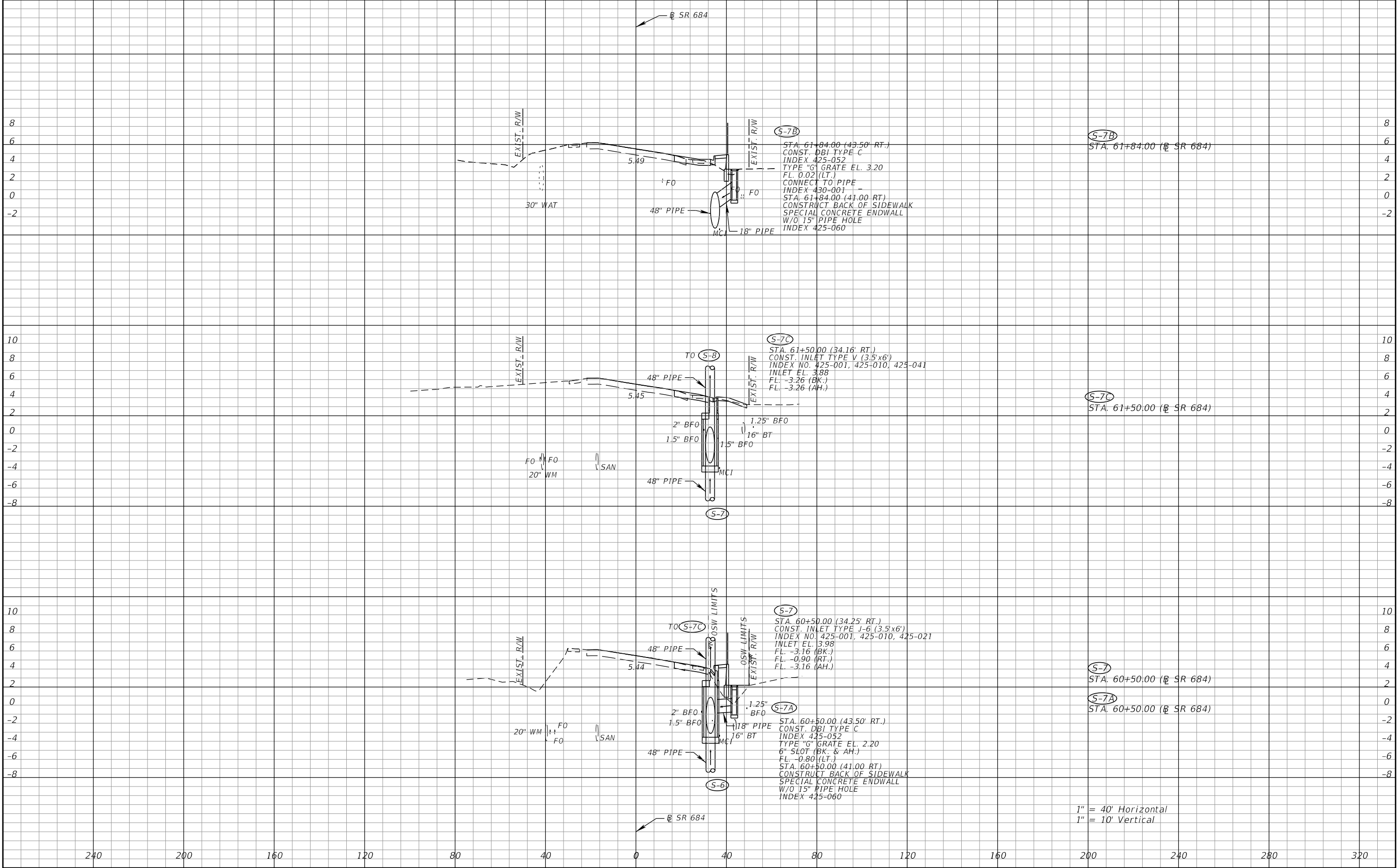
REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES SR 684 (CORTEZ RD W)	SHEET NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



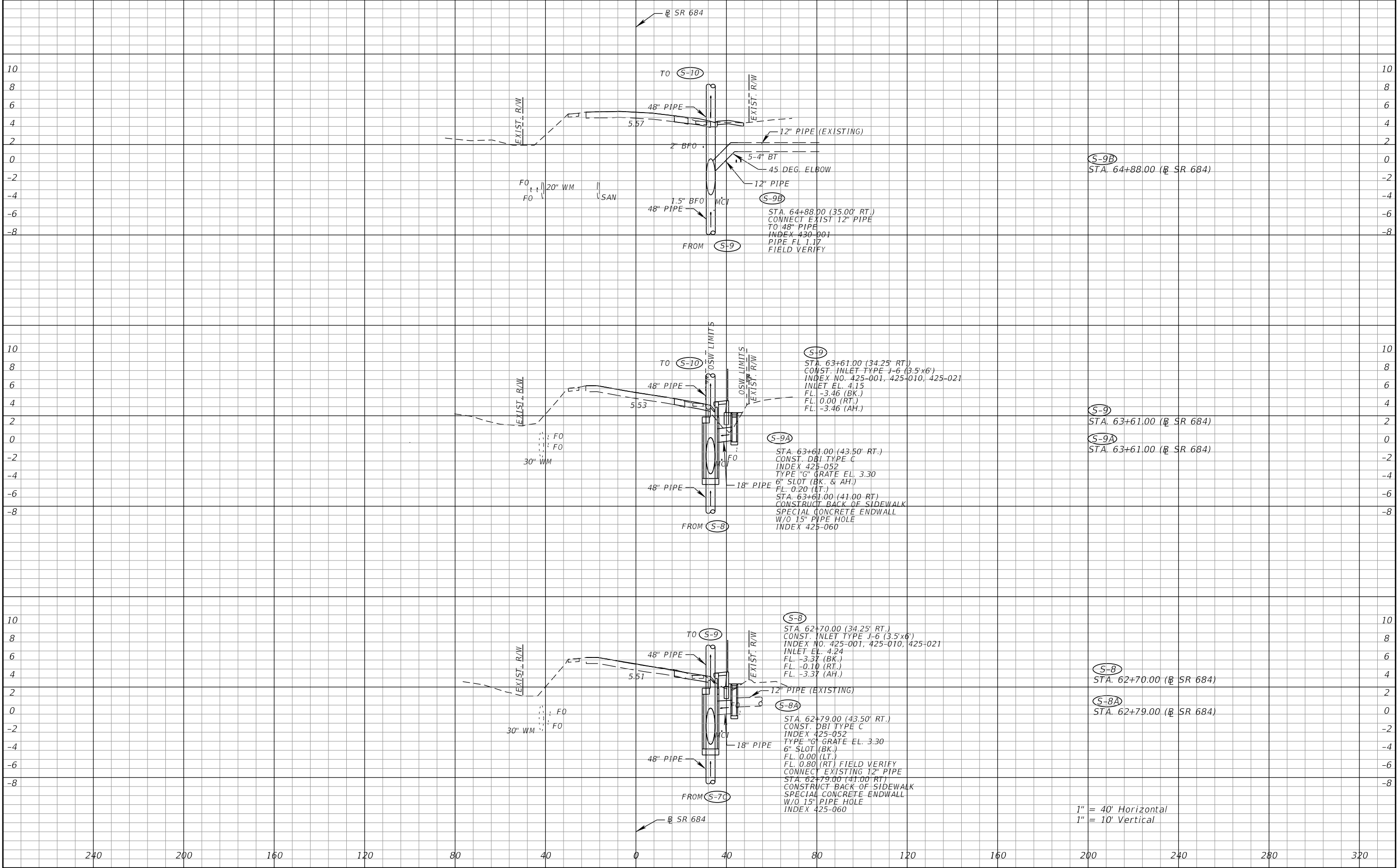
REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES SR 684 (CORTEZ RD W)	SHEET NO. 21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



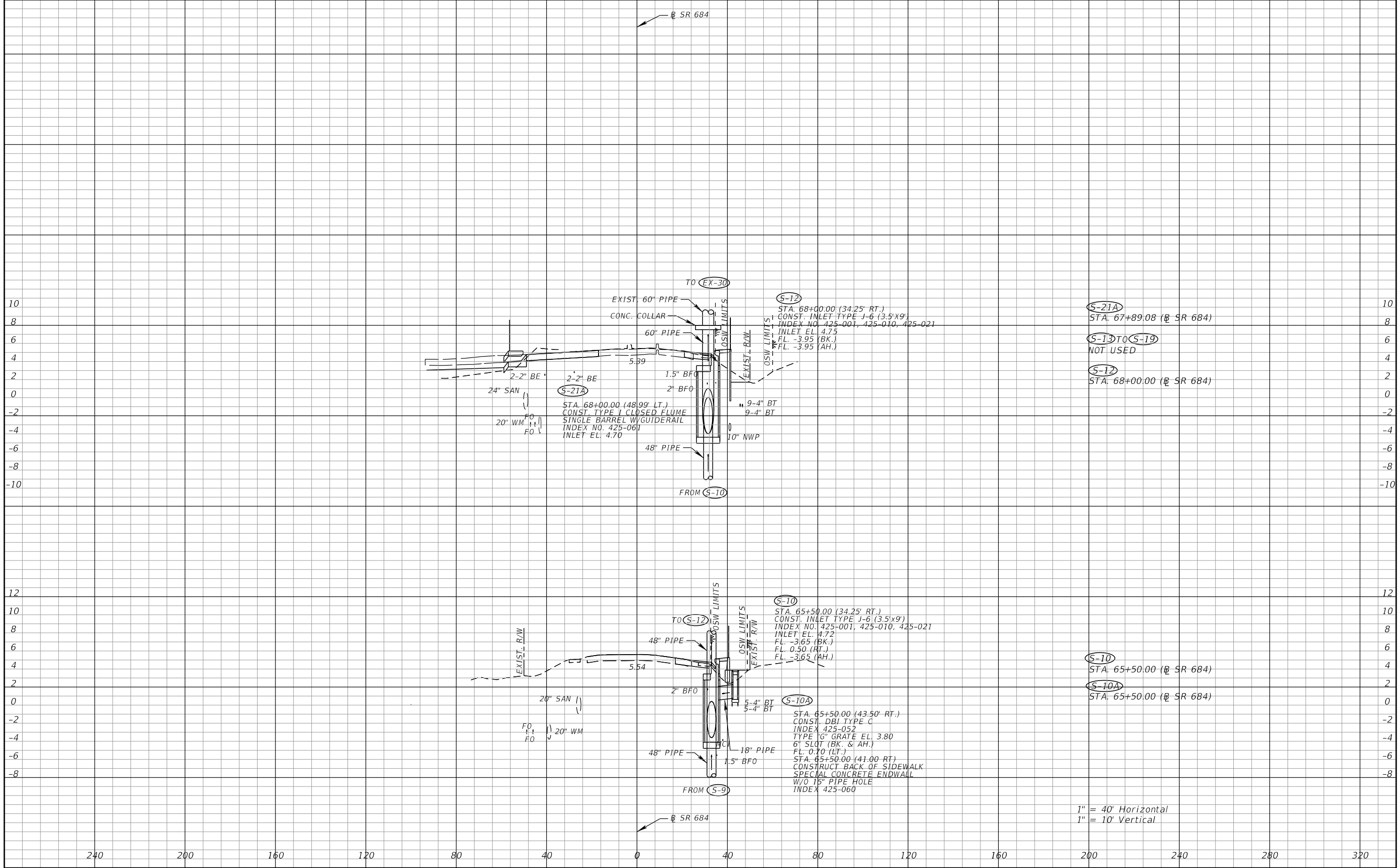
REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES SR 684 (CORTEZ RD W)	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



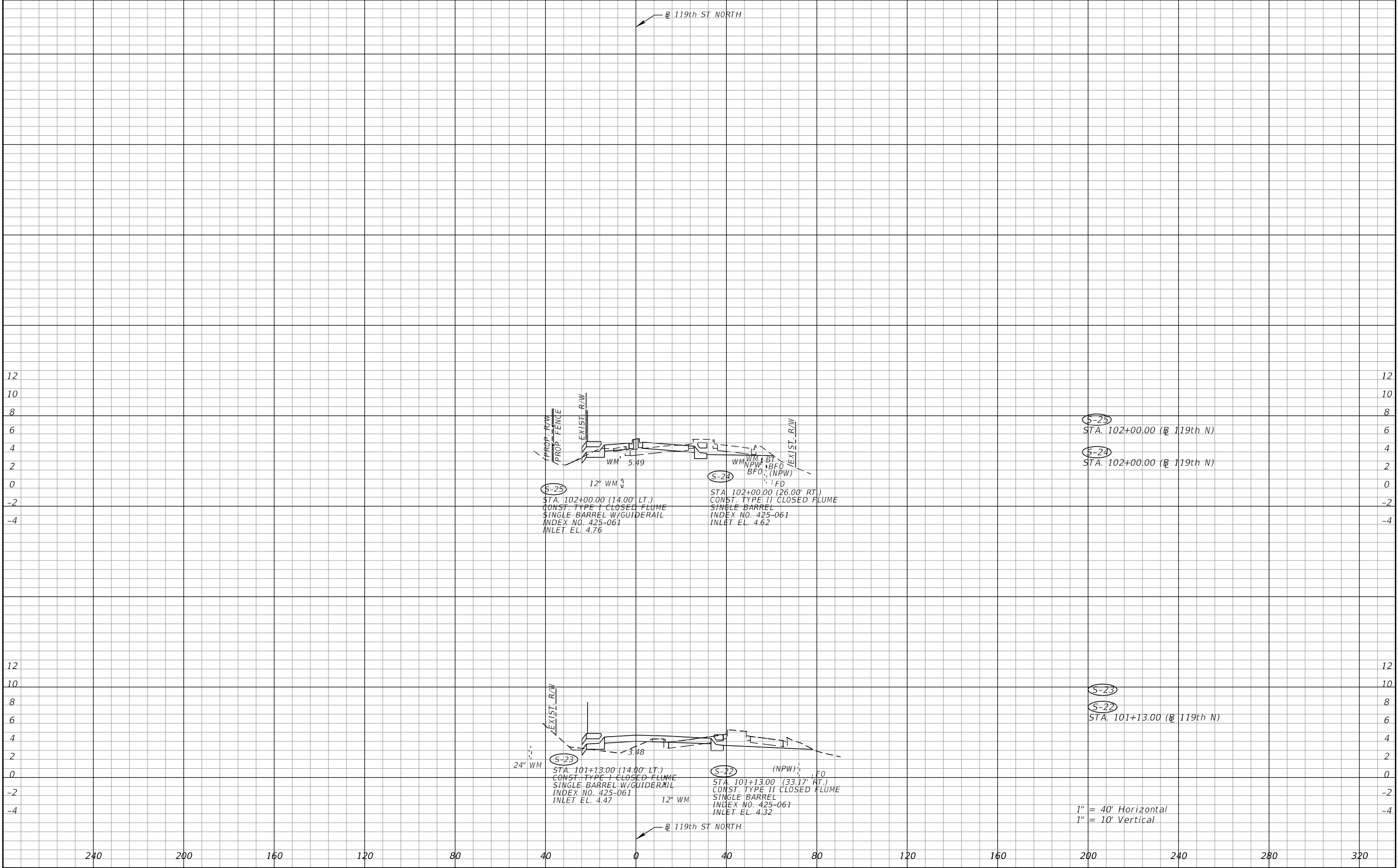
REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES SR 684 (CORTEZ RD W)	SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



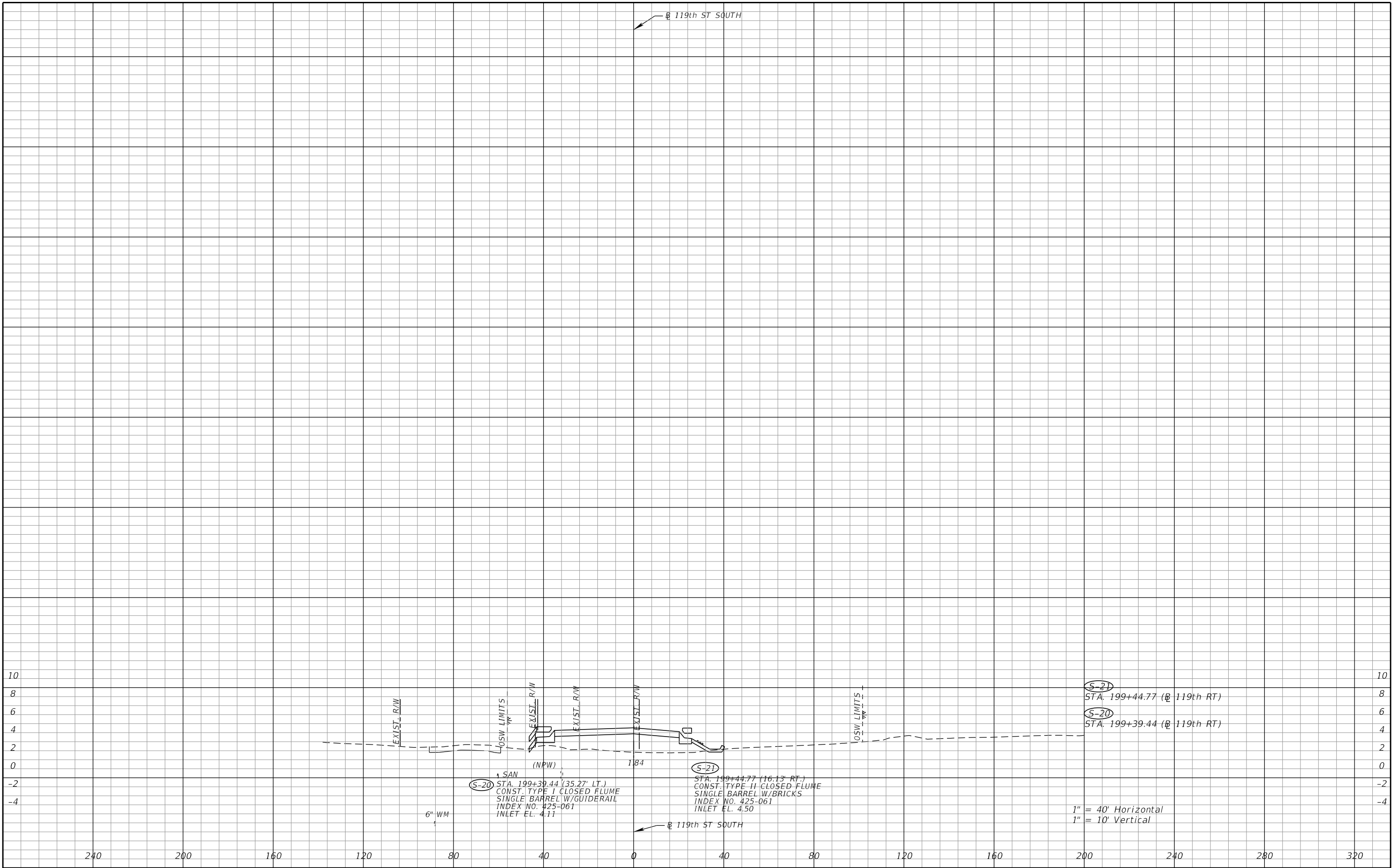
REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES SR 684 (CORTEZ RD W)	SHEET NO. 24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



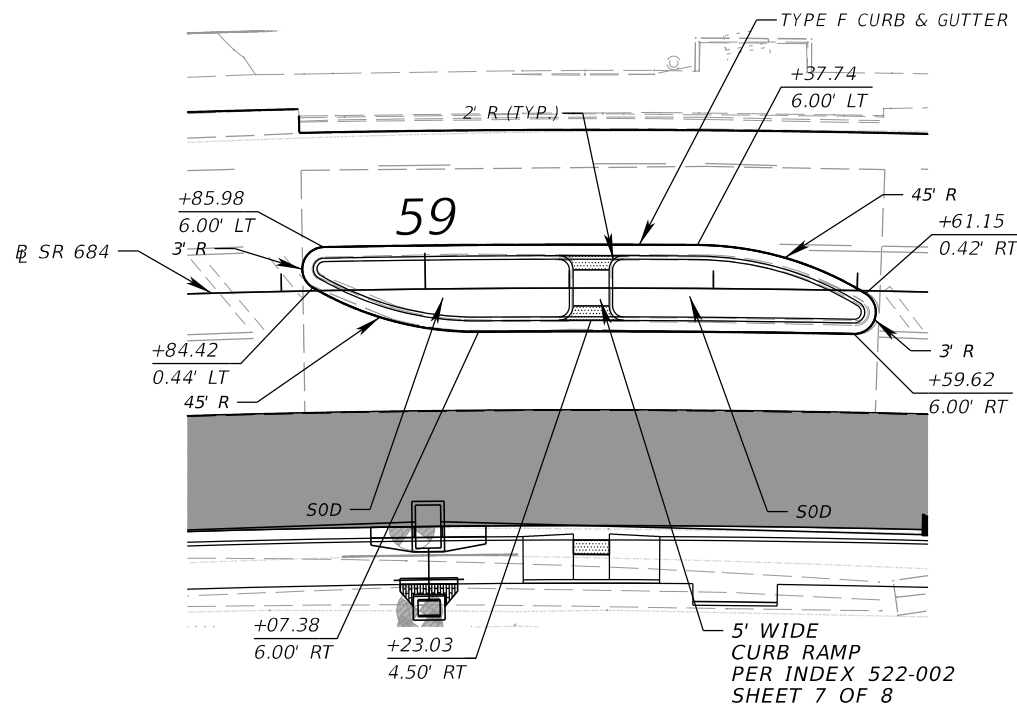
REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES 119TH ST W	SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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

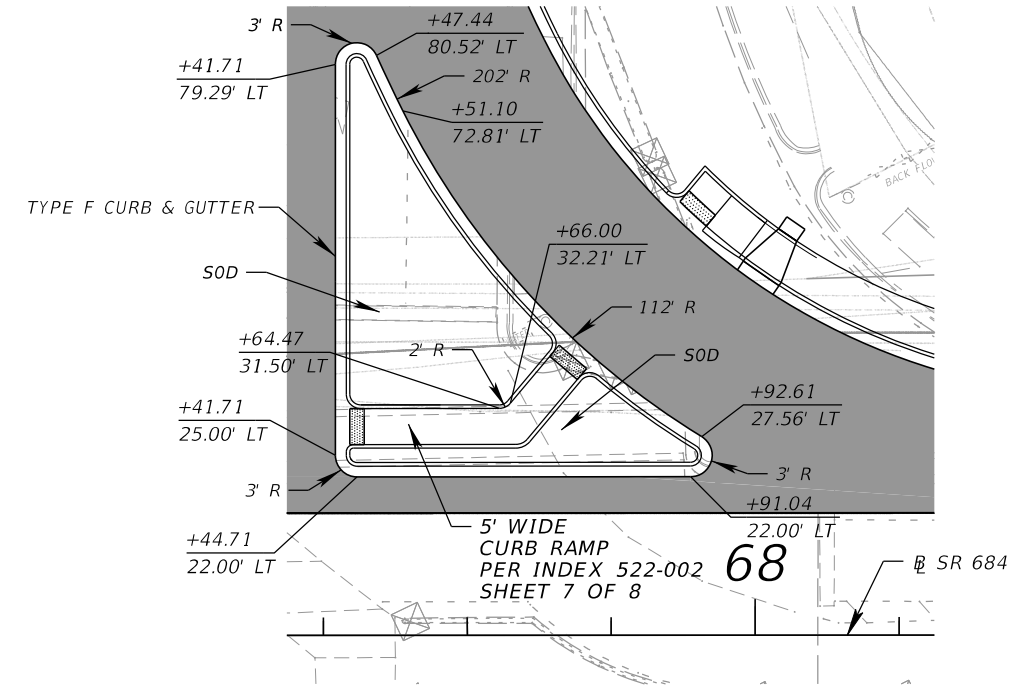


REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Shayne M. Paynter, P.E. NO. 58136	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES 119TH ST W	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01	26	

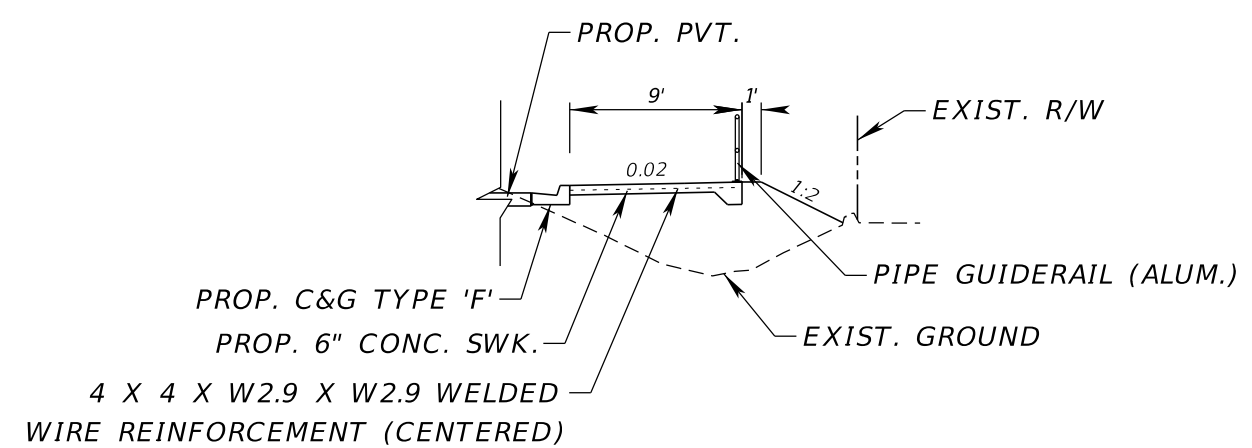
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MEDIAN ISLAND DETAIL

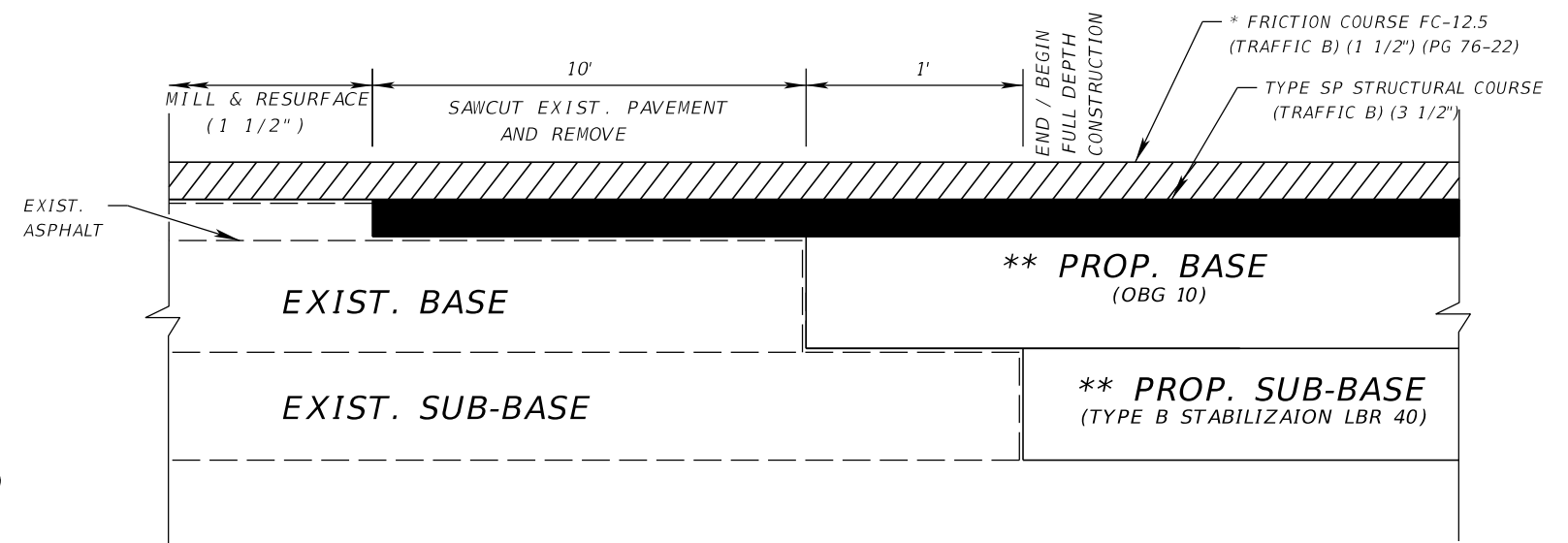


CURB ISLAND DETAIL



BUS STOP DETAIL

N.T.S.
STA. 59+37.49 TO STA. 59+49.49



ROAD CONNECTION DETAIL

N.T.S.
STATIONS:
1) STA. 103+32.38
2) STA. 197+55.00

* NOTE: LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.
**NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL DETAILS	SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: JUNE 2018 TO JULY 2018
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: KEVIN H. SCOTT, P.E.

DISTRICT: 1
ROAD NO.: SR 684
COUNTY: MANATEE

FINANCIAL PROJECT ID : 436551-2-52-01

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 52+36.86 SURVEY ENDS STA. : 73+00.00 REFERENCE: BASELINE

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS				
	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		NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	1	1	1	22	5	--	--	--	--	4-6	--	--	--	A-3	LIGHT BROWN TO DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT	4	660-4,600	15-585	174-204	6.6-8.1
2	2	2	2	25	2	--	--	--	--	4-8	--	--	--	A-3	DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

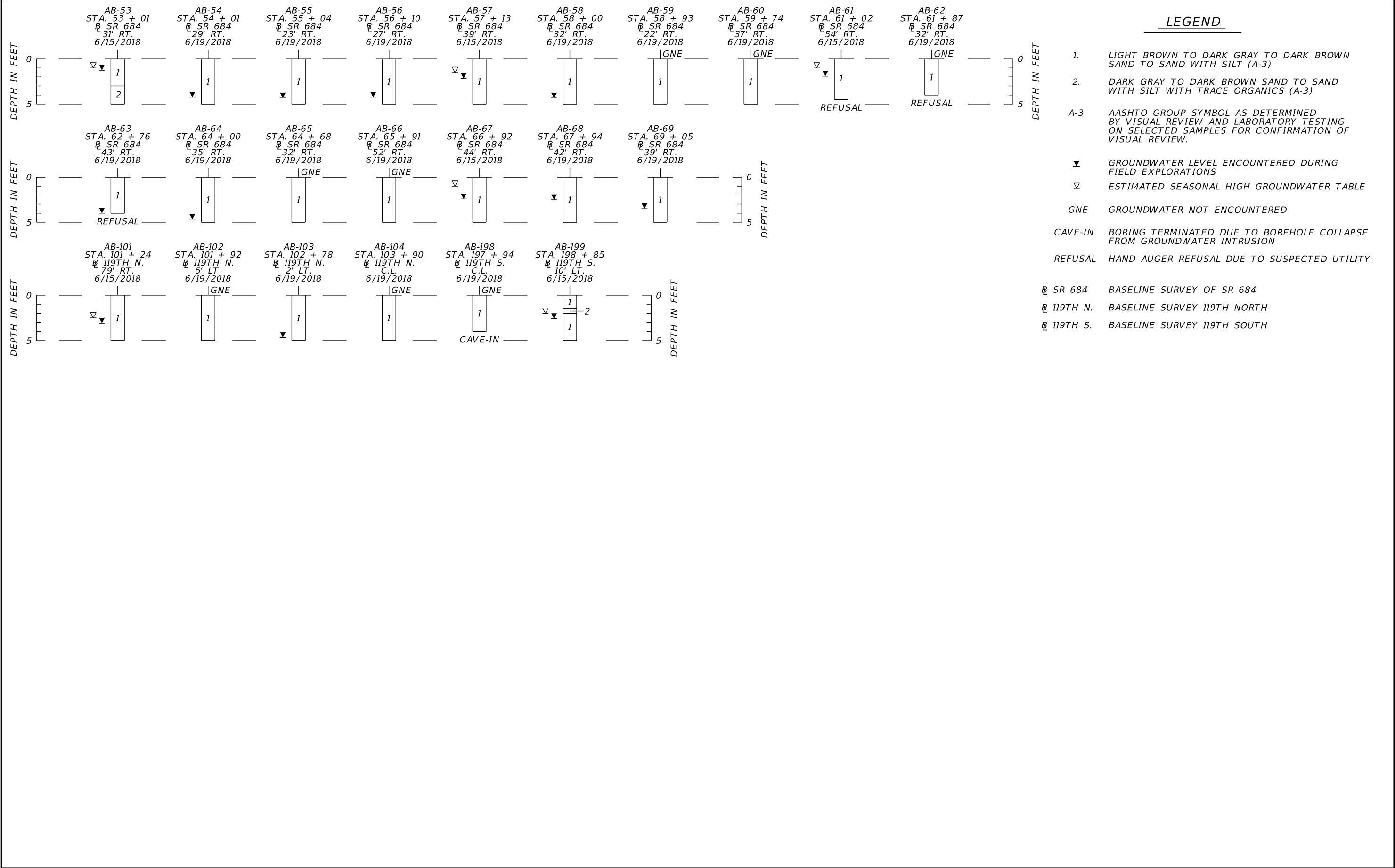
GNE - GROUNDWATER NOT ENCOUNTERED

NOTE:

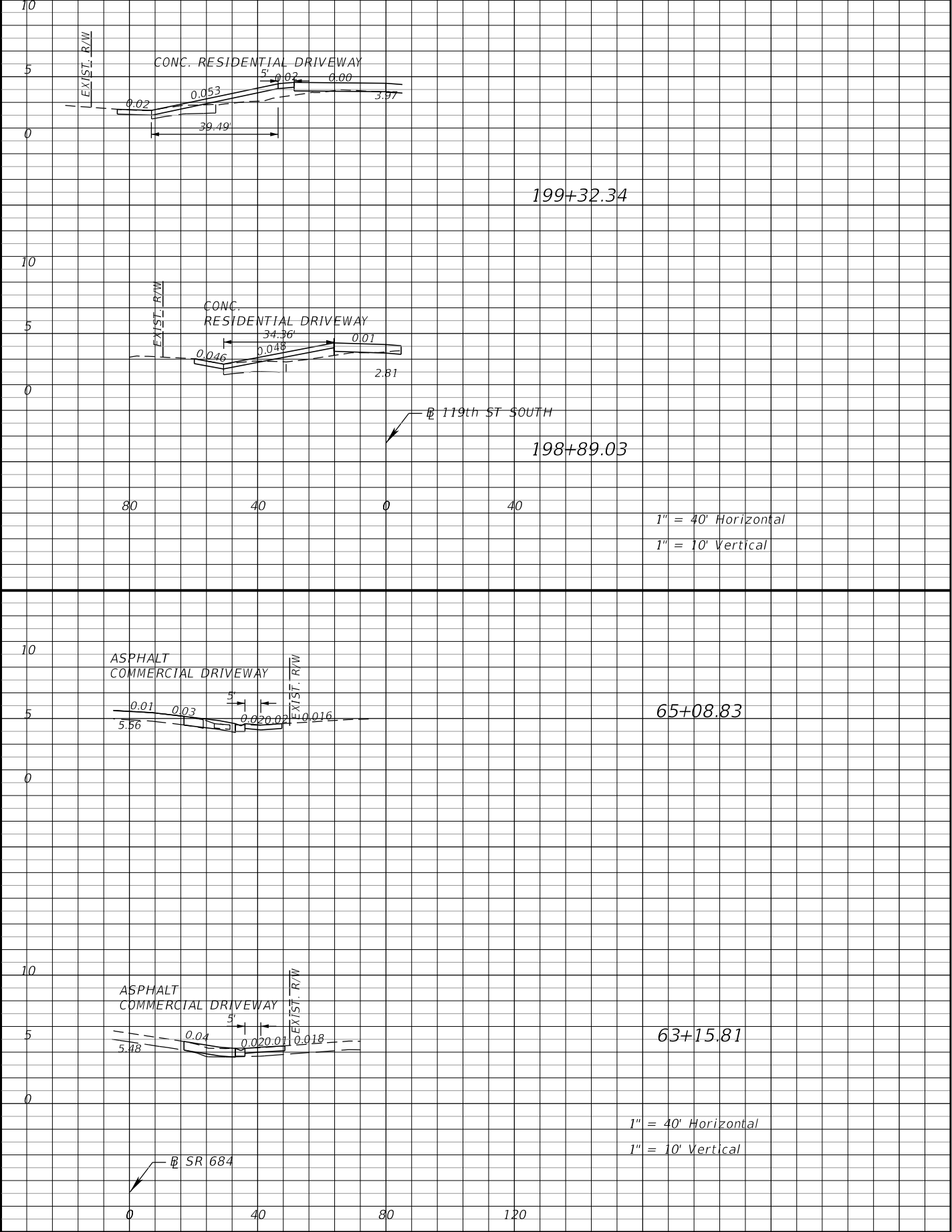
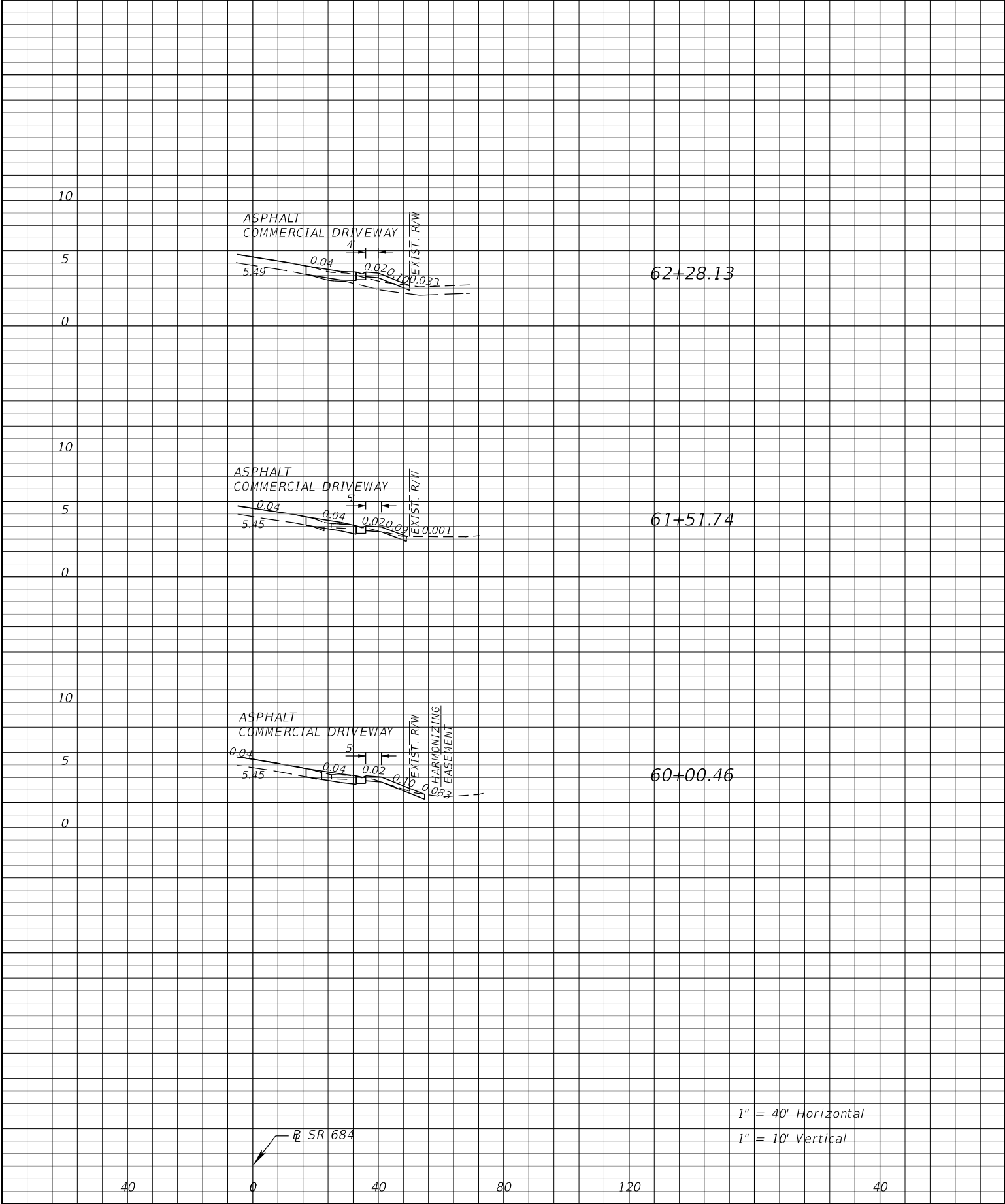
THE MATERIAL FROM STRATA 1 AND 2 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.

REVISIONS				KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION NO. 6486	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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

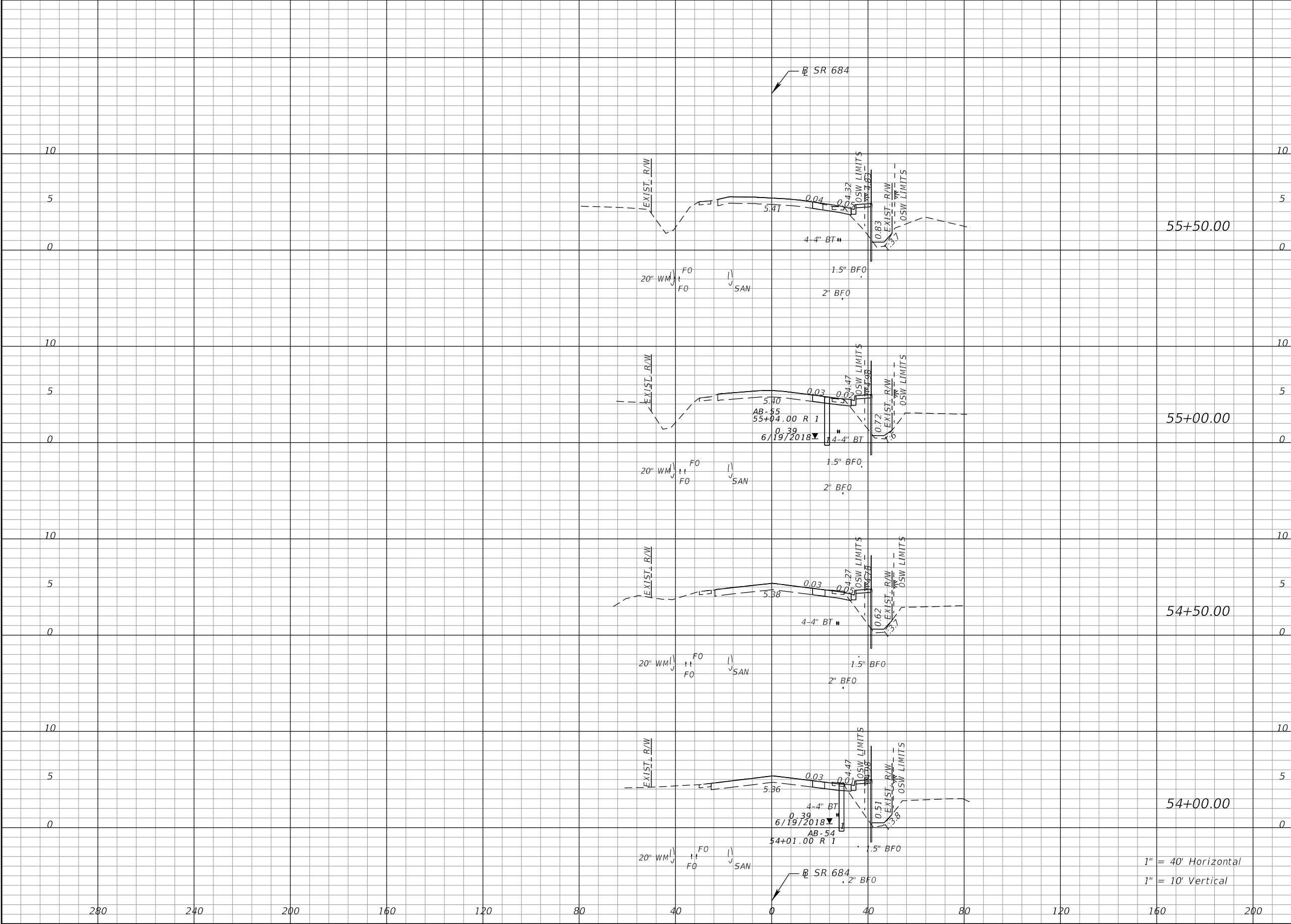


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REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRIVEWAY HALF-SECTIONS	SHEET NO. 30
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



55+50.00

55+00.00

54+50.00

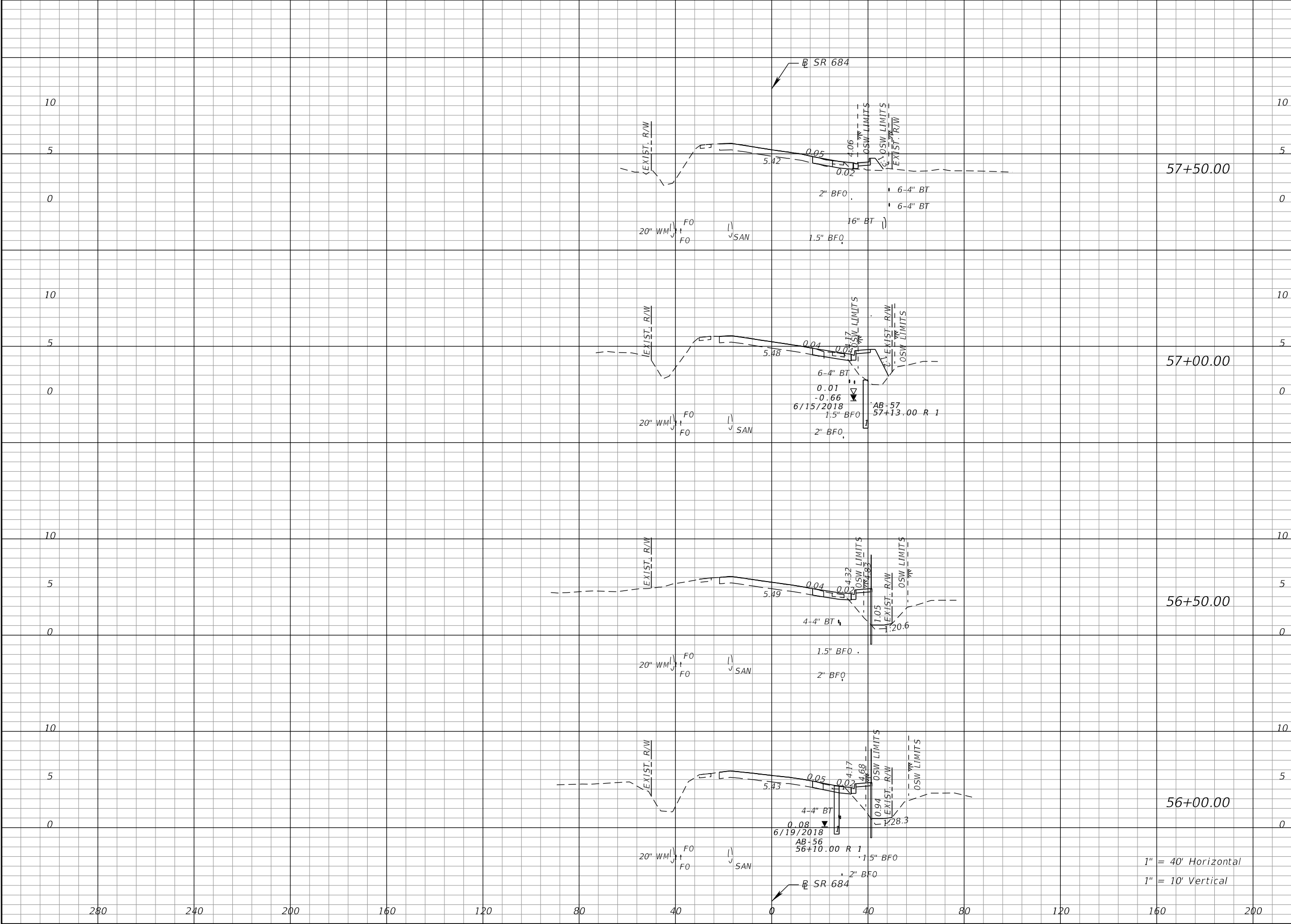
54+00.00

1" = 40' Horizontal
1" = 10' Vertical

Regular		Exc.	Embankment	
A		V	A	V
19		35	16	32
20		38	18	33
22		38	18	37
20		38	22	37

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 684 (CORTEZ RD W)		SHEET NO. 32
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

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

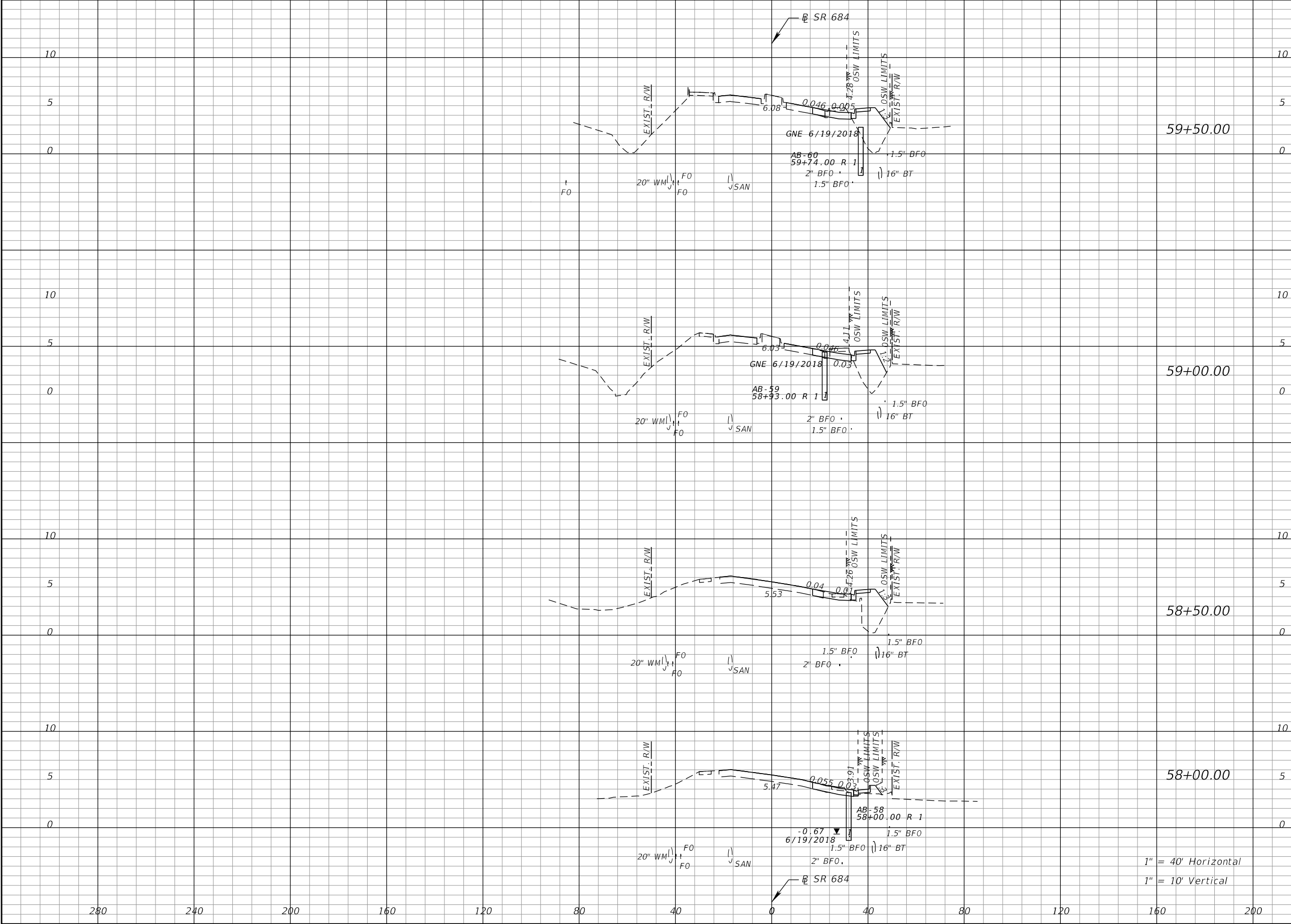


Regular		Exc.	Embankment	
A		V	A	V
18	57+50.00	33	10	43
17	57+00.00	33	36	51
19	56+50.00	35	19	33
23	56+00.00	43	17	31

1" = 40' Horizontal
1" = 10' Vertical

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 684 (CORTEZ RD W)		SHEET NO. 33
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

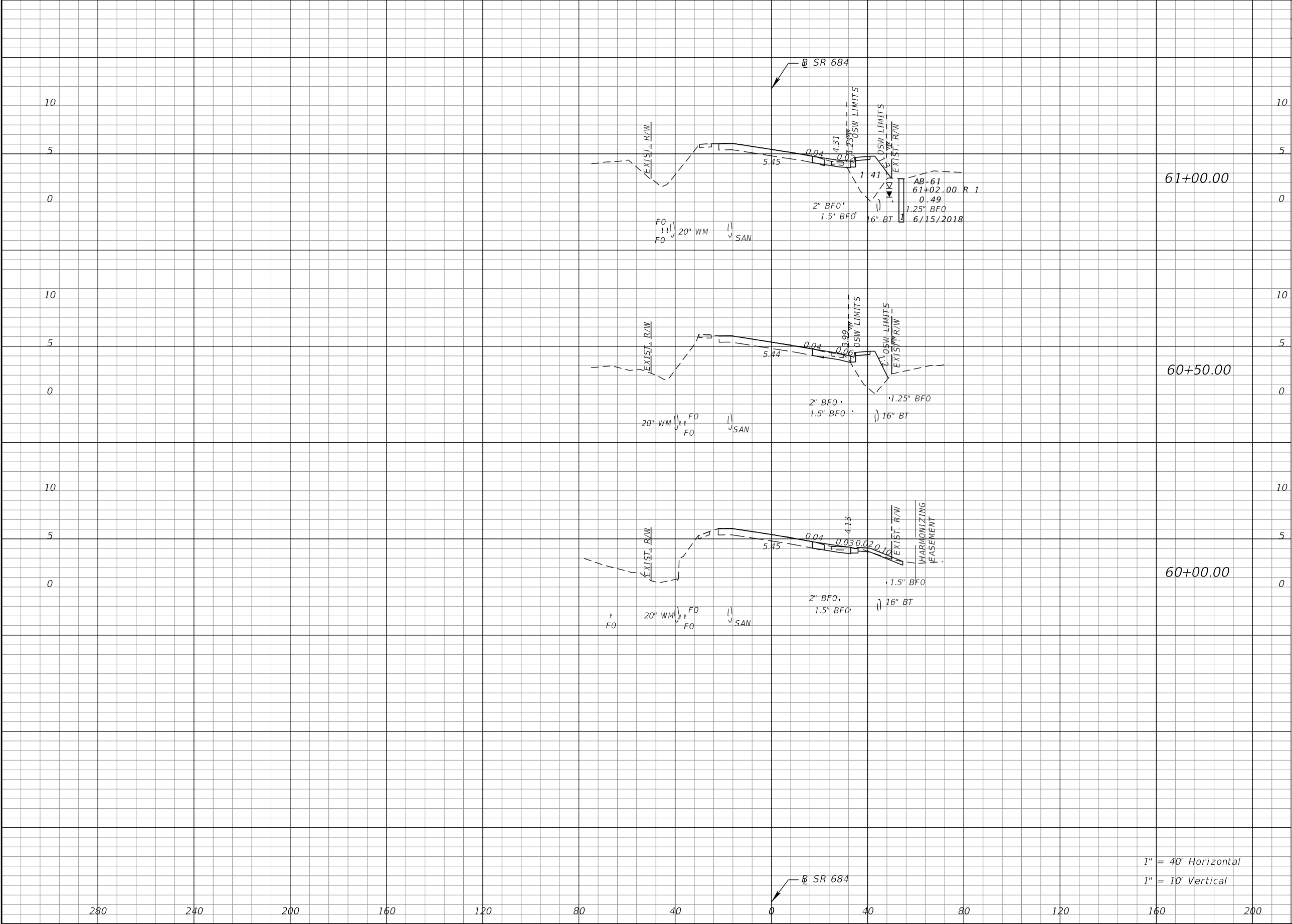
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



	Regular		Exc.		Embankment	
	A	V	A	V	A	V
23						
25						
18						
19						

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 684 (CORTEZ RD W)		SHEET NO. 34
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

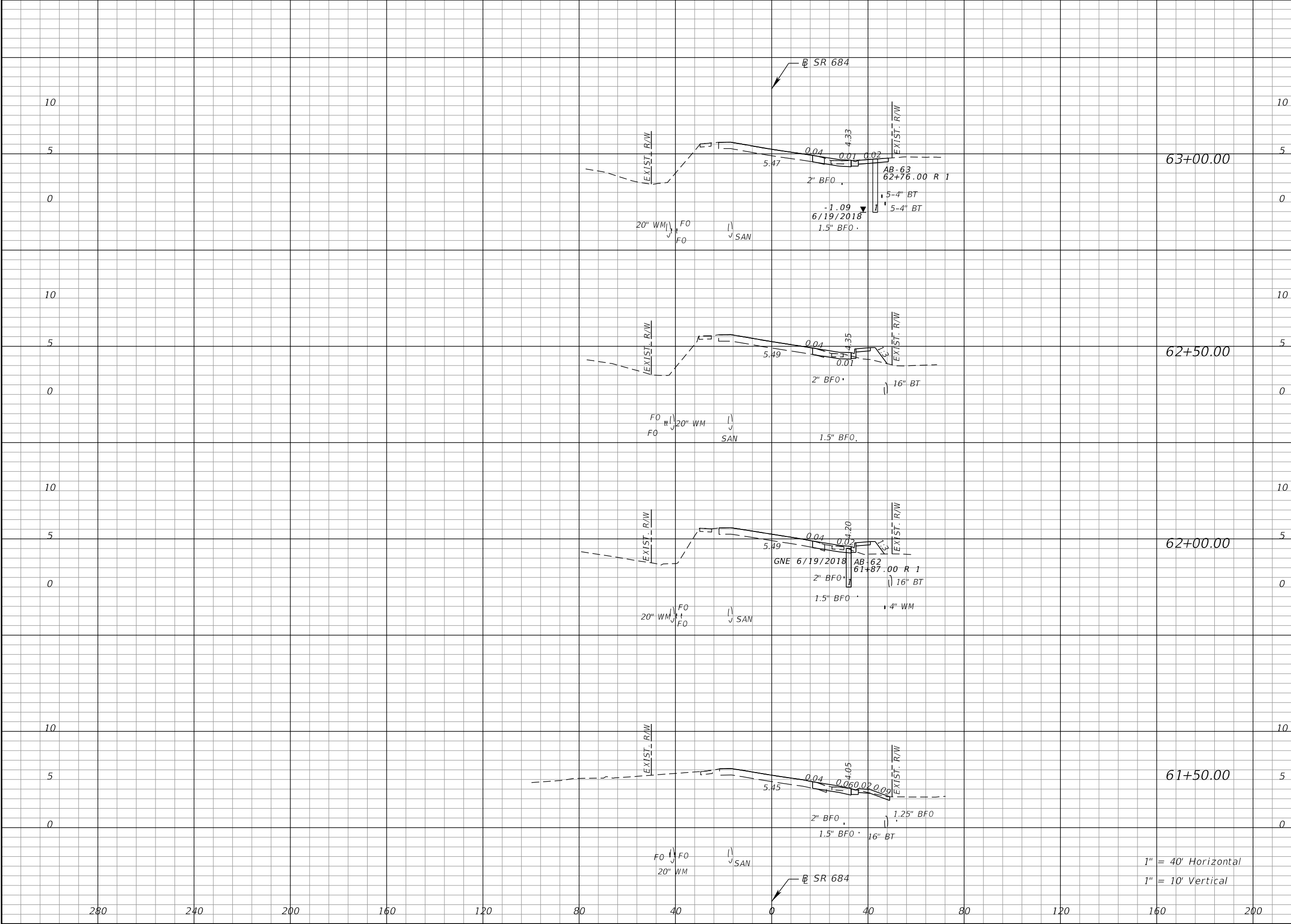
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Regular	Exc.	Embankment	
		A	V
16	32	42	74
18	36	38	41
2	40	6	44

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 684 (CORTEZ RD W)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		35

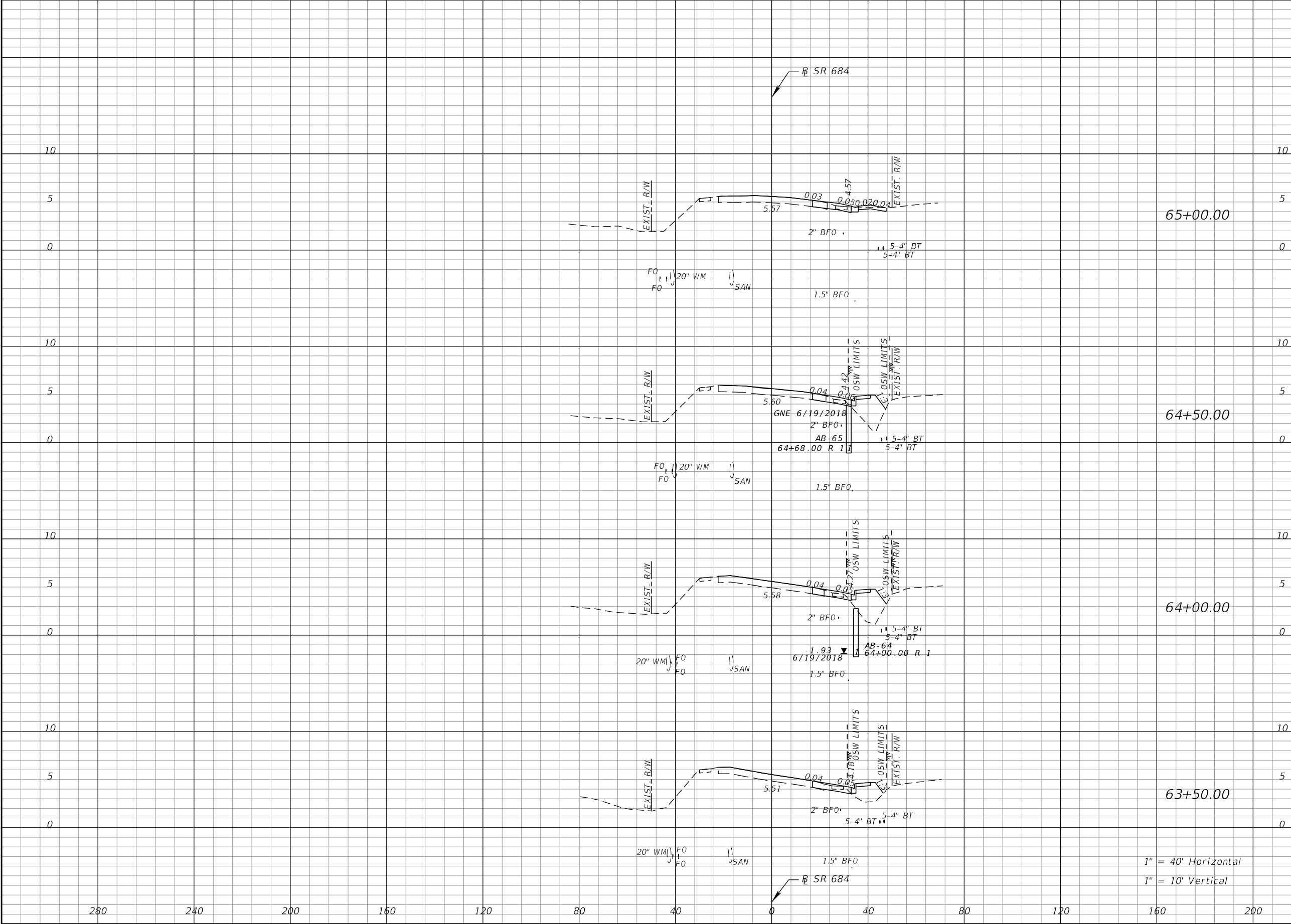
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Regular	Exc.	Embankment	
		A	V
19	34	1	10
18	33	9	17
18	35	9	13
19	33	5	43

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 684 (CORTEZ RD W)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		36

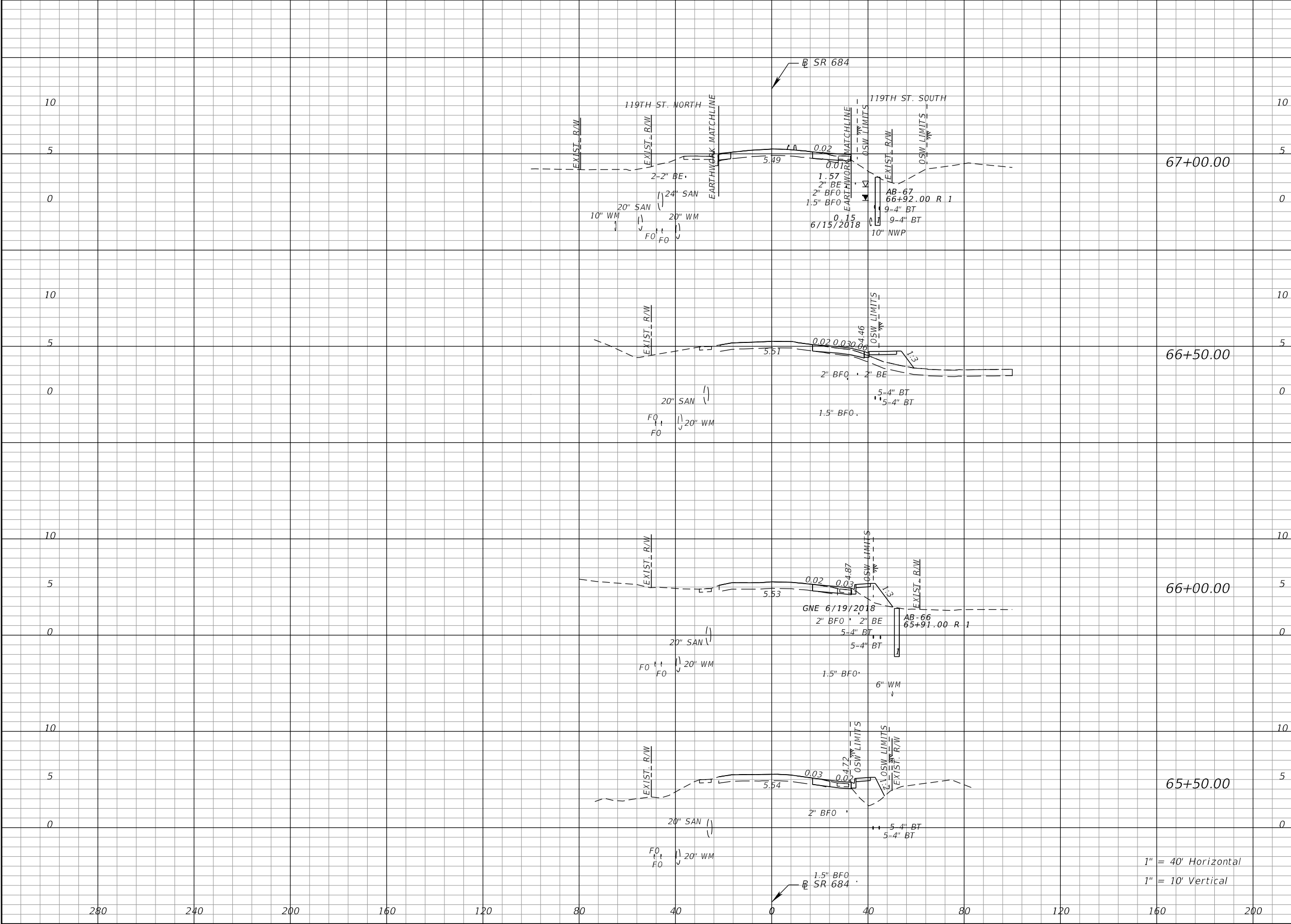
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Regular	Exc.	Embankment	
		A	V
19	32	3	27
16	30	27	53
17	32	30	42
18	34	16	16

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 684 (CORTEZ RD W)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		37

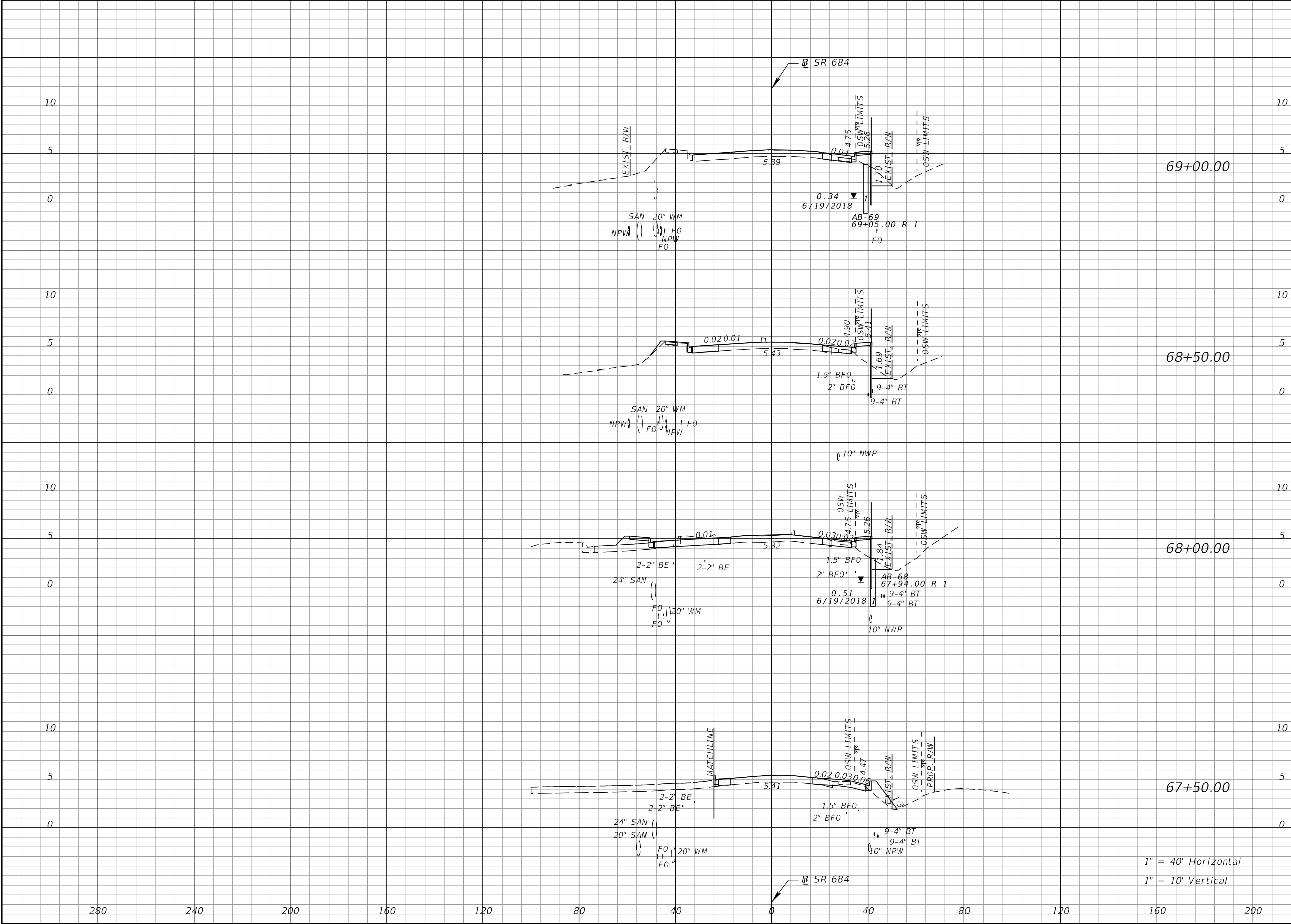
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Regular	Exc.	Embankment	
		A	V
24	48	20	28
27	42	10	22
19	34	14	32
18	34	21	22

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		38

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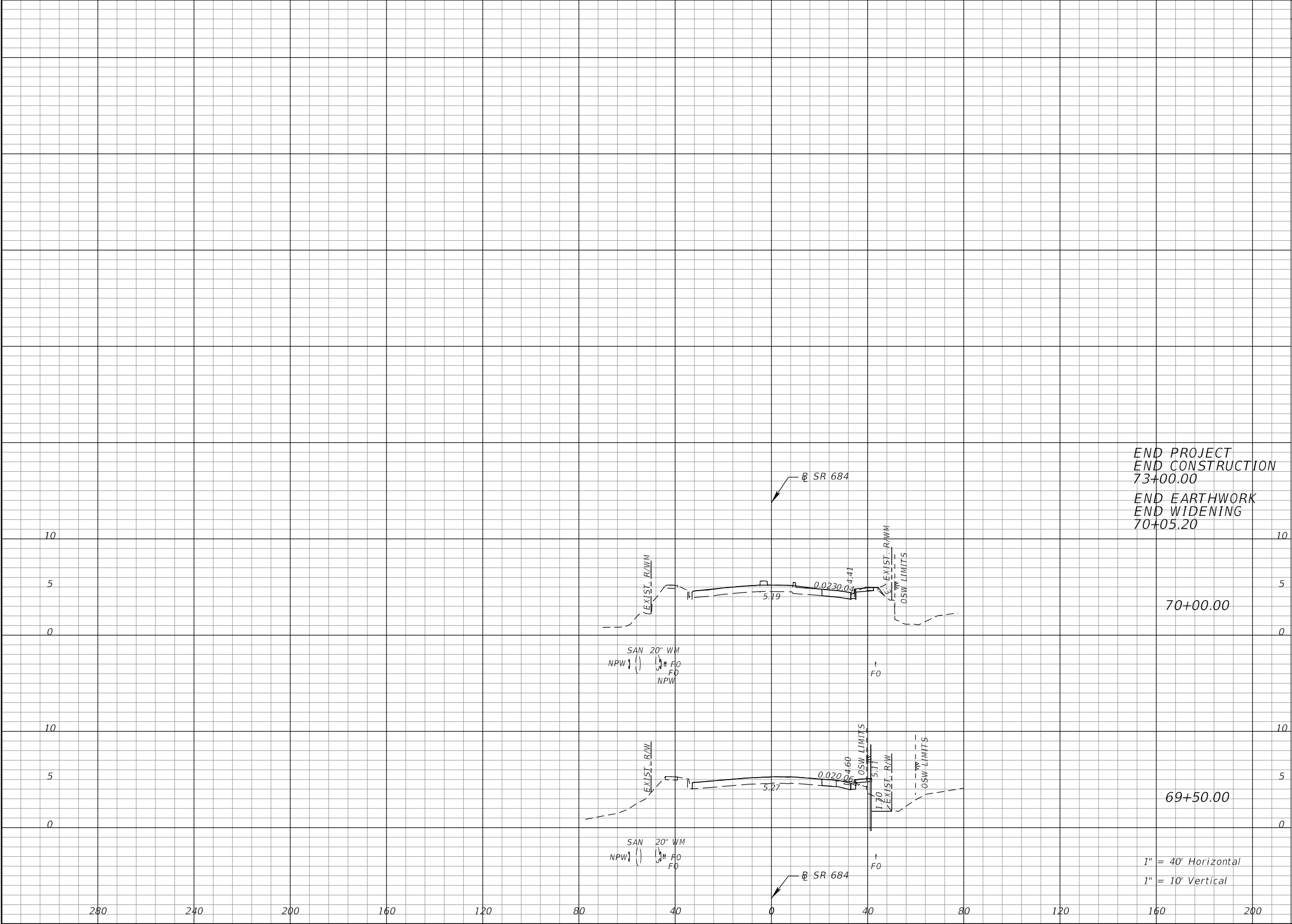


Regular		Exc.	Embankment	
A		V	A	V
25		44	4	12
23		42	9	14
22		42	6	15
24		44	10	28

1" = 40' Horizontal
1" = 10' Vertical

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

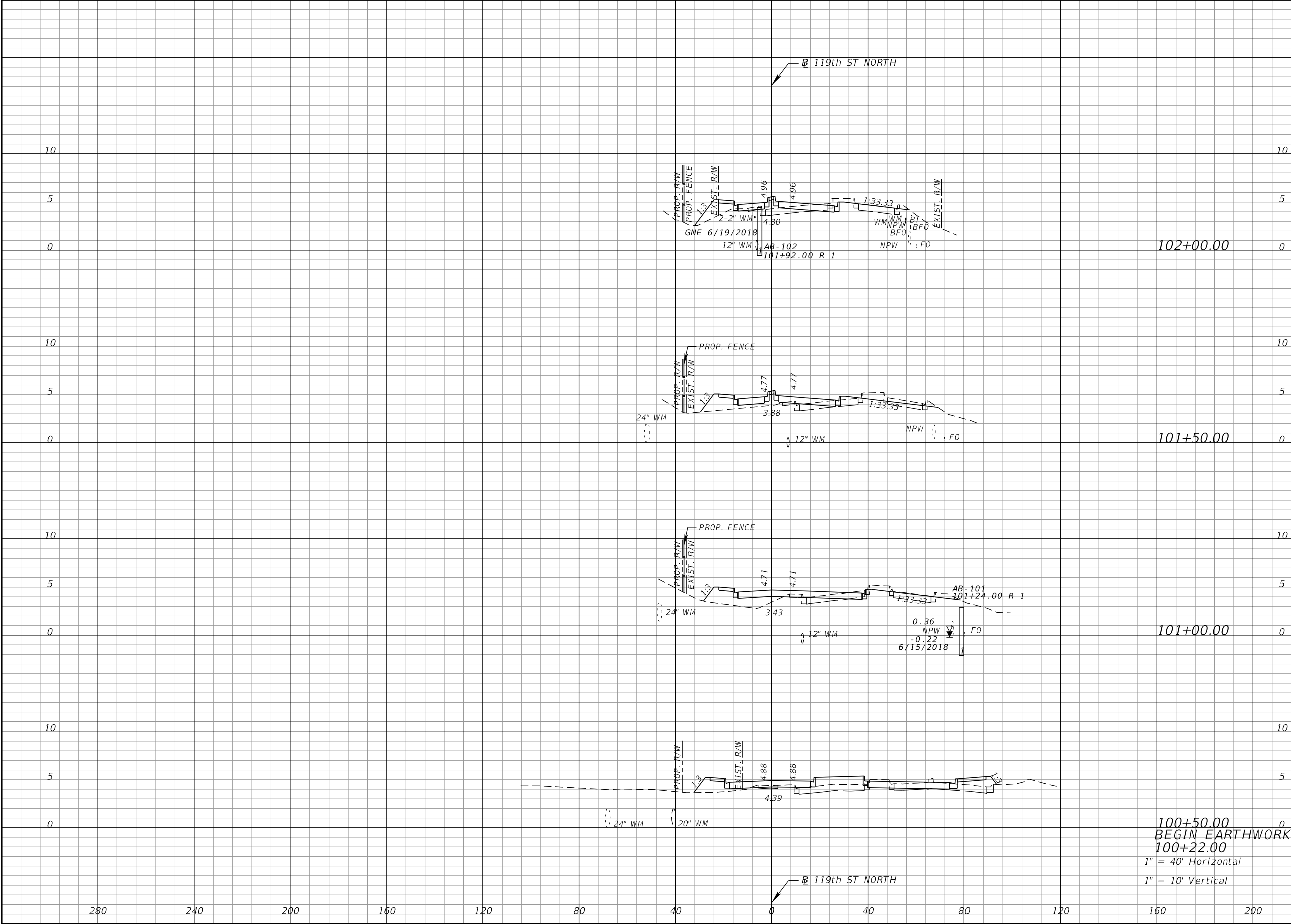
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Regular		Exc.	Embankment	
A		V	A	V
11			2	
	5	2		0
11	0	27	2	2
29			2	
	0	50		5

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DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

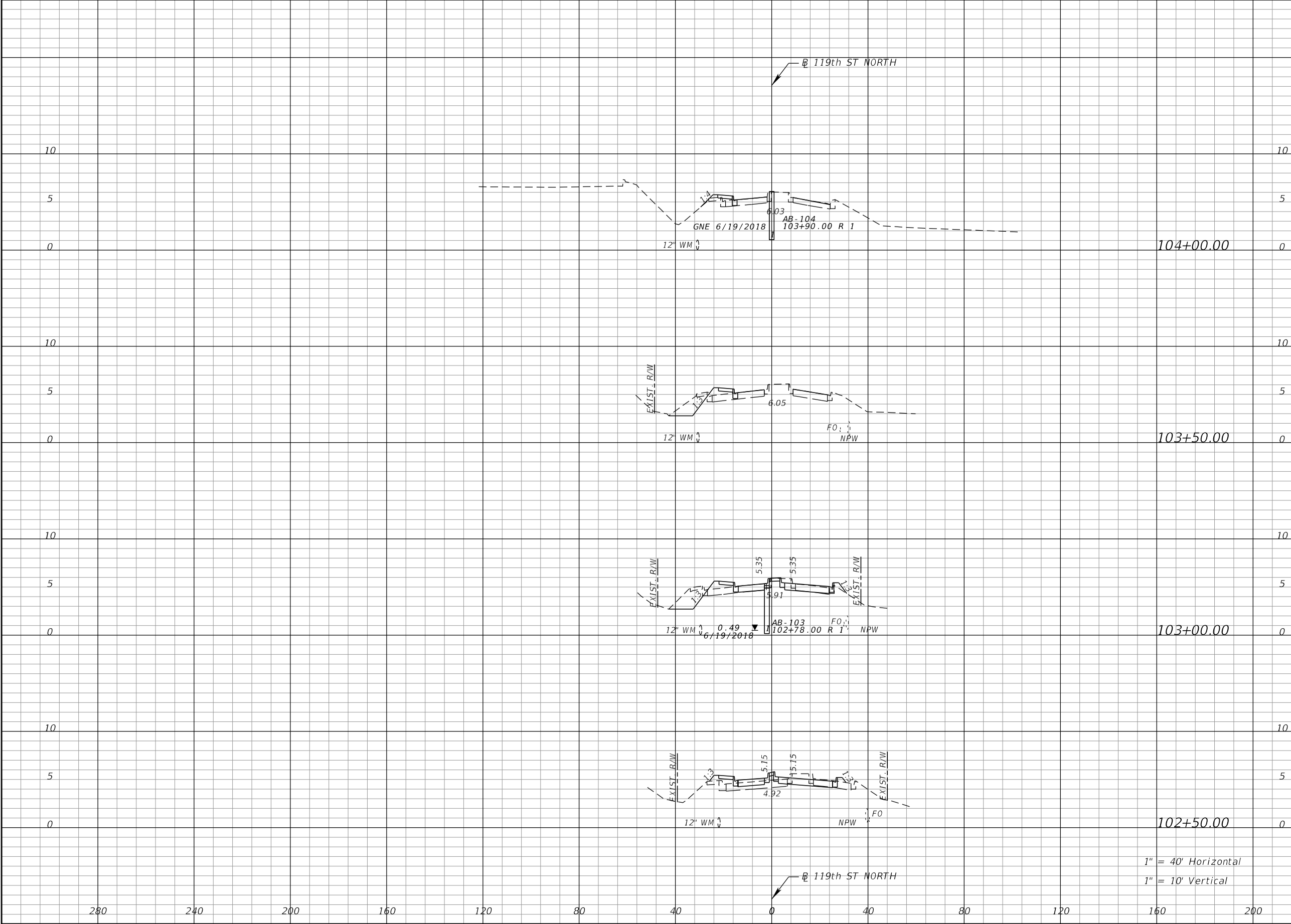
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Regular		Exc.	Embankment	
A	V	A	V	
24	39	21	36	
18	45	21	39	
31	55	16	53	
29	0	42	0	

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

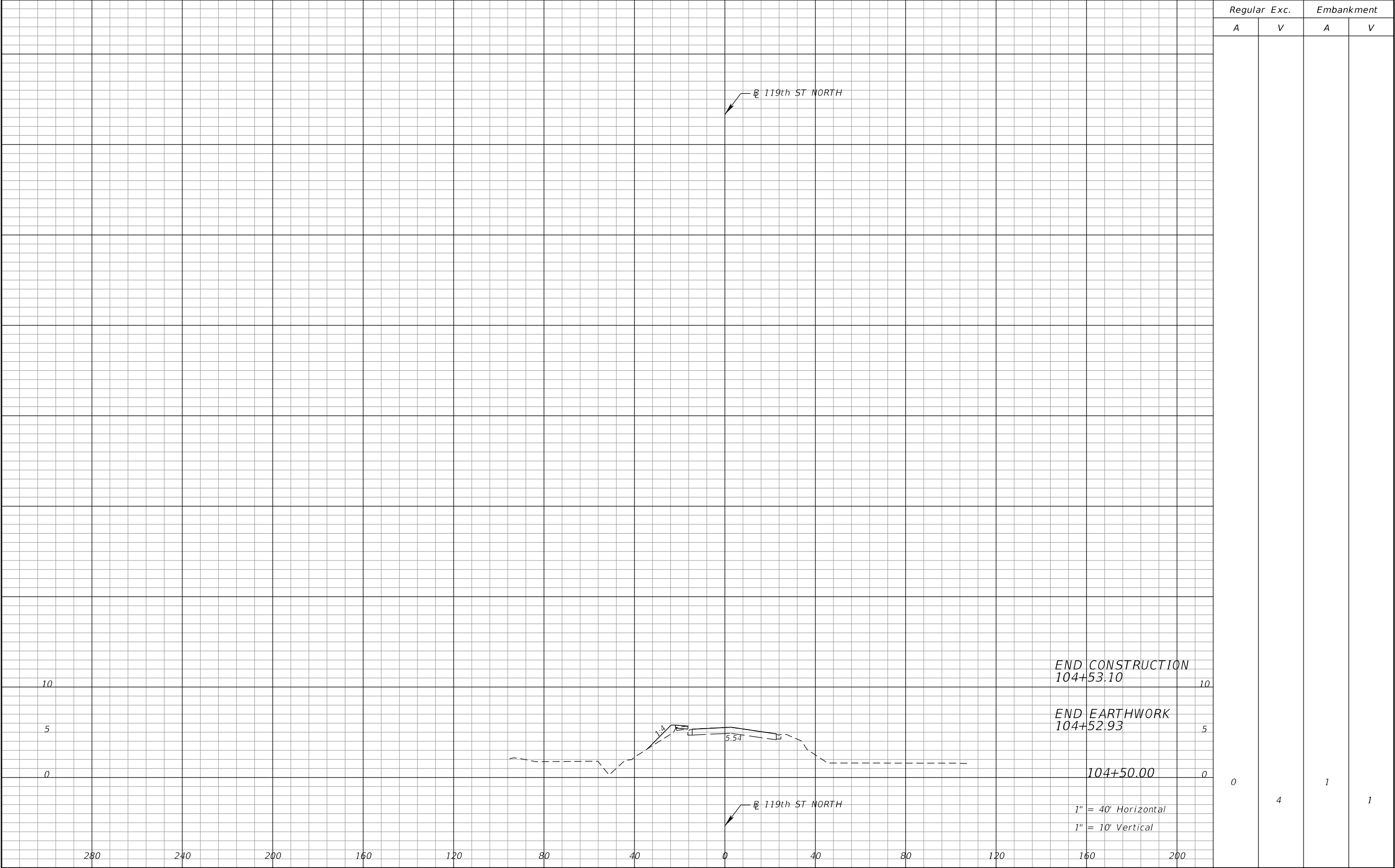
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Regular		Exc.	Embankment	
A		V	A	V
4		16	4	5
13		50	6	10
41		68	9	14
33		53	18	25

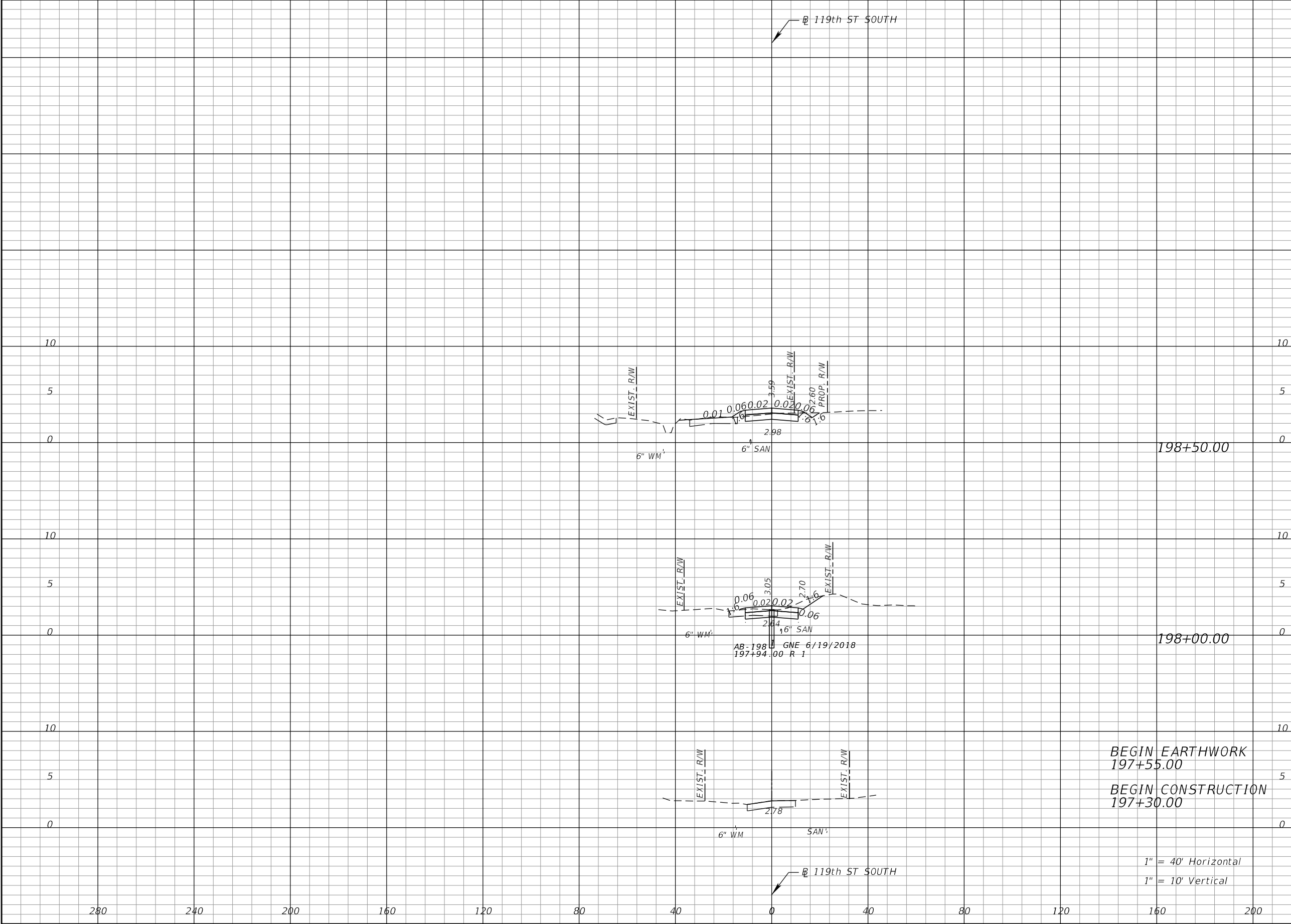
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS 119TH ST W		SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			42

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REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS 119TH ST W		SHEET NO. 43
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

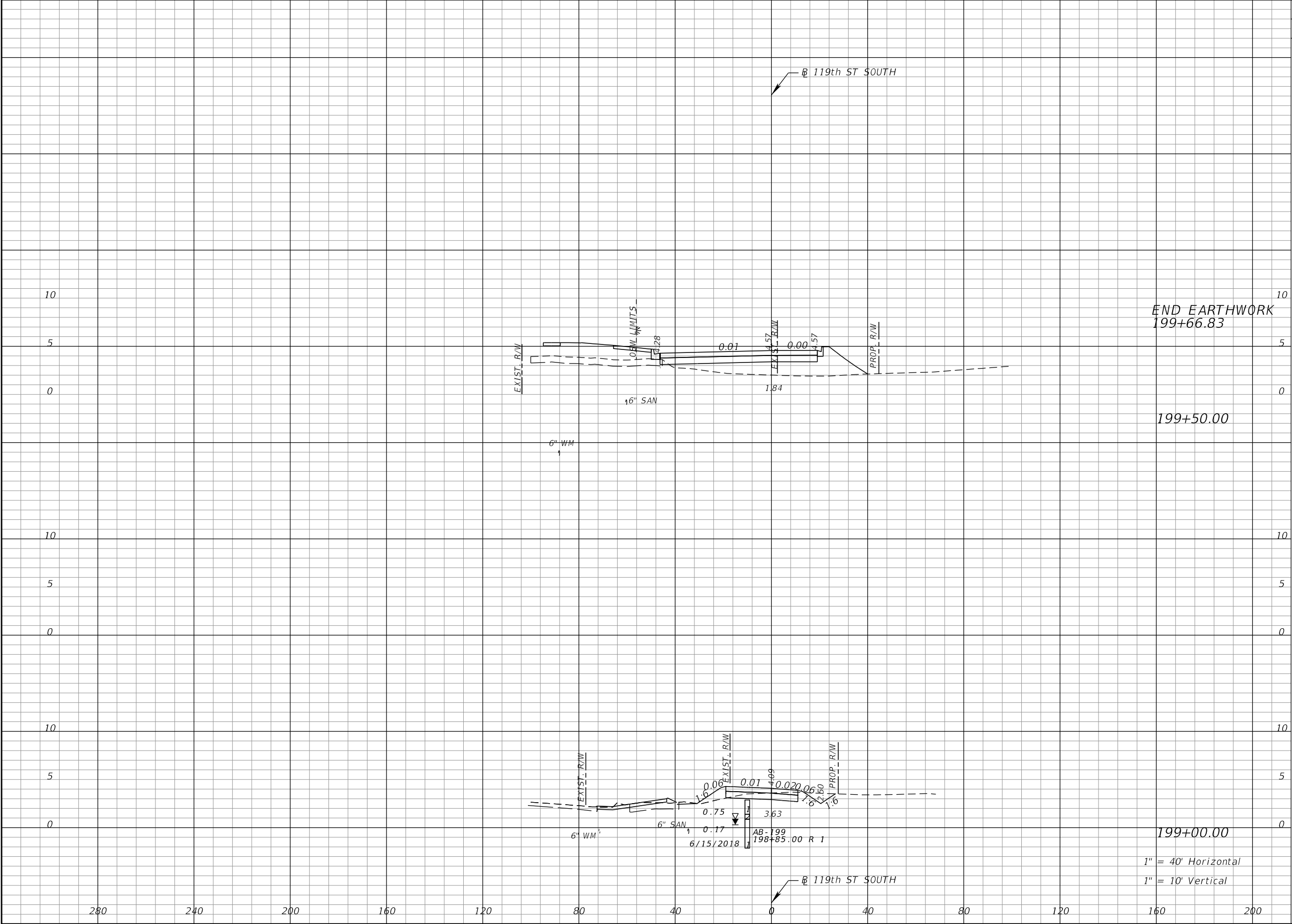
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Regular		Exc.	Embankment	
A	V	V	A	V
22	40	3	3	3
22	18	0	0	0
0	0	0	0	0

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS 119TH ST W		SHEET NO. 44
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

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Regular	Exc.	Embankment	
		A	V
84	27	32	44
2	31	110	112
32	49	11	12

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS 119TH ST W		SHEET NO. 45
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			

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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 IS ADDING A THROUGH LANE ON SR 684 (CORTEZ RD W) FROM EAST OF 123RD STREET WEST TO EAST OF 119TH STREET WEST IN MANATEE COUNTY. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SIDEWALK, STORM DRAIN SYSTEM AND NO MODIFICATION TO WATER MANAGEMENT FACILITIES. THE PROJECT TOTAL DISTANCE IS 0.4 OF A MILE.

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

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

LIST OF INTENDED ACTIVITIES:

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

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

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

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

(1.C.) PROJECT AREA ESTIMATES:

TOTAL SITE AREA: 94.6 ACRES.
TOTAL AREA TO BE DISTURBED: 2.7 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=0.35
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.60

WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw (B) = 0.74 DURING: Cw (D) = 0.78 AFTER: Cw (A) = 0.84

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 NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

IN GENERAL, THE SOILS ARE:

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
10 - CARNAVAL SAND, ORGANIC SUBSTRATUM (84%)	A	2.5' - 5.0'
33 - MYAKKA FINE SAND (16%)	A/D	0.0' - 1.0'

REFERENCE: USDA SOIL SURVEY OF MANATEE COUNTY, FLORIDA

OUTFALL INFORMATION:

THIS PROJECT HAS ONLY ONE OUTFALL.

THE OUTFALL DISCHARGES INTO THE FOLLOWING BASIN:

BASIN	WBID	PARAMETER(S) OF CONCERN FOR 303(d) LISTING
SARASOTA BAY	1968B	MERCURY (IN FISH TISSUE) AND BACTERIA (IN SHELLFISH)

OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)	DESCRIPTION	DRAINAGE AREA	LATITUDE	LONGITUDE	RECEIVING WATERBODY
(a)	CANAL	N/A	N 27°27' 59"	W 82°40' 47"	SARASOTA BAY (ANNA MARIA SOUND)

THIS FACILITY DOES DISCHARGE TO WATERS LISTED ON THE ADOPTED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOTAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN, OR 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.

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

(I.F.1.) EXISTING DRAINAGE FLOWS ARE TYPICALLY CONVEYED VIA DITCHES TO EXISTING CROSS DRAINS THAT FLOW NORTH TOWARDS A CANAL THAT DRAIN TO SARASOTA BAY. THE CROSS SECTION SHEETS AND PLAN-PROFILE SHEETS PROVIDE THE APPROXIMATE SLOPE, AREAS OF SOIL DISTURBANCE AND AREAS TO BE STABILIZED. UNLESS OTHERWISE APPROVED BY THE PERMITS, THE CONSTRUCTION ACTIVITIES SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS.

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

2. CONTROLS:

(2.A.) SEDIMENT AND EROSION CONTROLS

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

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

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 684	MANATEE	436551-2-52-01			46

(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:				(2.D.2.a.) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN.			
TEMPORARY DEVICES: * SILT FENCE				(2.D.2.b.) REMOVING EXCESS DIRT FROM ROADS DAILY.			
* STAKED TURBIDITY BARRIERS				(2.D.2.c.) USING WATER TRUCKS DURING DUST-GENERATING ACTIVITIES.			
* SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS				(2.D.2.d.) SEDIMENT CONTROL MAY BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.			
* 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.			(3.A.) IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.			
(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)).			(3.B.) SEDIMENT BARRIERS SHALL BE REPLACED WHEN IT IS NO LONGER EFFECTIVE OR AS DIRECTED BY THE ENGINEER.			
(2.B.3.)	IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY. THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTUs ABOVE BACKGROUND OR LESS THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFWs).			(3.C.) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.			
(2.B.4.)	WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.			(3.D.) REMOVE SEDIMENT FROM SEDIMENT BASINS WHEN IT BECOMES MORE THAN HALF THE AVAILABLE VOLUME.			
(2.C.)	DEWATERING CONTROLS						
	THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL INCLUDE A DESCRIPTION OF THE BMPs THAT WILL BE USED TO ENSURE 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 SITE SPECIFIC 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.						

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		47
					SR 684	MANATEE	436551-2-52-01		

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GENERAL NOTES

1.THE POSTED REGULATORY SPEED LIMIT SHALL BE MAINTAINED AT ALL TIMES.

CORTEZ RD. W. = 35 MPH
119TH ST. W. = 20 MPH

2.LANE CLOSURE RESTRICTIONS ARE AS FOLLOWS:

CORTEZ RD. W. - NO SINGLE LANE CLOSURES BETWEEN THE HOURS OF 7:30 AM TO 9:00 PM.

3.ARROWS SHOWN ON PLANS INDICATE DIRECTION OF TRAFFIC. THEY DO NOT REPRESENT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.

4.NOTIFY ALL LOCAL LAW ENFORCEMENT, EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES OR DETOURS.

5.NOTIFY WILLIAM (BILL) STEELE, THE MCAT MANAGER, 30 DAYS BEFORE CONSTRUCTION BEGINS AT (941) 747-8621 TO COORDINATE THE RELOCATION OF THE BUS STOP BENCH AND TRASH RECEPTACLE.

- 6.TO ENSURE TRANSIT SERVICE DELIVERY OPERATIONS DURING CONSTRUCTION, IMPACTING ROUTE 6:
- 1) MCAT WILL PROVIDE "AS NEEDED STOPS" USING THE DRIVEWAYS THAT ARE OPEN DURING CONSTRUCTION THAT HAVE A FIRM AND STABLE SURFACE FOR TRAVEL.
 - 2) IF/WHEN SELECTED DRIVEWAYS ARE CLOSED FOR CONSTRUCTION ACTIVITY, MCAT OPERATIONS WILL USE THE REMAINING OPEN DRIVEWAYS TO FACILITATE TRAVEL.
 - 3) MCAT WILL REMOVE THE EXISTING AMENITIES (I.E., BENCH AND TRASH RECEPTACLE) WHEN NECESSARY; AND THEN RE-INSTALL THOSE AMENITIES, ONCE THE NEW BUS STOP IF CONSTRUCTED.

PHASING NOTES

PHASE IA

- 1. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDE STREETS UNLESS OTHERWISE NOTED.
- 2. COORDINATE THE TEMPORARY BUS STOP RELOCATIONS WITH THE MCAT MANAGER.
- 3. INSTALL ADVANCED WARNING AND PEDESTRIAN/119TH DETOUR SIGNS AND EROSION CONTROL DEVICES.
- 4. CLOSE OFF THE NORTH LEG OF 119TH ST. WEST.
- 5. UTILIZE OFF-PEAK HOUR LANE CLOSURES TO REMOVE PEDESTRIAN ISLAND ALONG CORTEZ ROAD AND CONSTRUCT TEMPORARY PAVEMENT. REMOVE EXISTING STRIPING AND ADD TEMPORARY STRIPING AS SHOWN IN PHASE I PLAN SHEETS.
- 6. ADJUST SIGNAL HEADS FOR TCP AS NEEDED AT 119TH. ELIMINATE THE BI-DIRECTIONAL TURN LANES AND SHIFT EXISTING TRAFFIC TO THE NORTH AS SHOWN IN THE PHASE I PLAN SHEETS.
- 7. CONSTRUCT PROPOSED ELEMENTS (EXCLUDING FRICTION COURSE) ALONG SOUTH CORTEZ RD. AND SOUTH LEG OF 119TH ST. WEST.
- 8. UTILIZE PEDESTRIAN CHANNELIZING DEVICES TO MAINTAIN PEDESTRIAN TRAFFIC WHILE COMPLETING THE CONSTRUCTION OF THE NORTH LEG OF 119TH ST. WEST AS SHOWN IN THE PLANS.

PHASE IB

- 1. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDESTREETS UNLESS OTHERWISE NOTED.
- 2. UTILIZING PEDESTRIAN CHANNELIZING DEVICES RELOCATE THE NORTH 119TH CROSSING TO THE COMPLETED SECTION OF NORTH 119TH. PROVIDE A TEMPORARY PEDESTRIAN WALKWAY UTILIZING TEMPORARY PAVEMENT AS NEEDED WHILE COMPLETING CONSTRUCTION OF THE REMAINING SECTION OF THE ROADWAY (EXCLUDING FRICTION COURSE).
- 3. OPEN THE NORTH LEG OF 119TH ST. WEST.
- 4. INSTALL ADVANCED WARNING AND THE SOUTH 119TH ST. WEST DETOUR SIGNS.
- 5. CLOSE OFF THE SOUTH LEG OF 119TH ST. WEST AND CONSTRUCT THE REMAINING PORTION OF THE ROADWAY (EXCLUDING FRICTION COURSE).
- 6. CONSTRUCT REMAINING SECTION OF SOUTH CORTEZ RD. (EXCLUDING FRICTION COURSE)FROM STA. 67+77.55 TO STA. 69+80.27 CONCURRENT WITH CLOSURE OF SOUTH LEG OF 119TH ST. WEST.

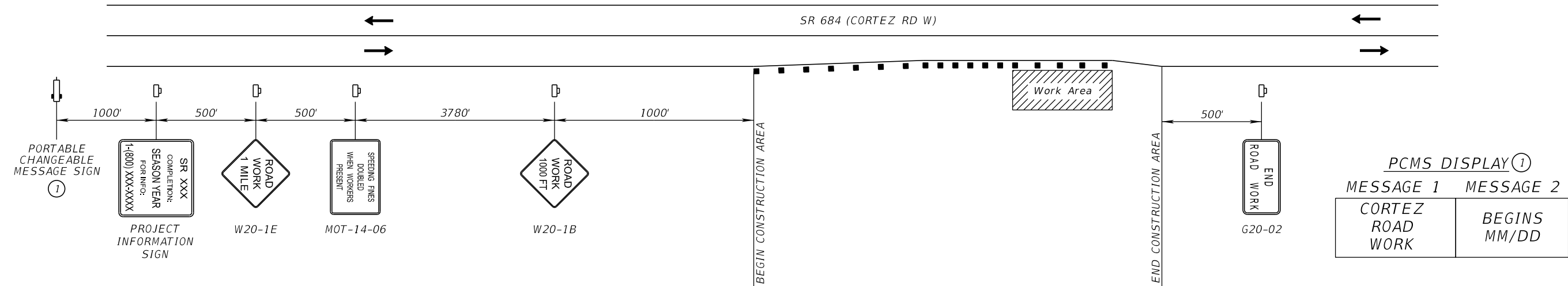
PHASE II

- 1. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDESTREETS UNLESS OTHERWISE NOTED.
- 2. OPEN THE COMPLETED SIDEWALK ON THE SOUTH SIDE OF CORTEZ TO PEDESTRIAN TRAFFIC.
- 3. PLACE TEMPORARY STRIPING AND SHIFT TRAFFIC AS SHOWN IN THE PHASE II PLANS.
- 4. MILL & RESURFACE WESTBOUND CORTEZ, PLACE FRICTION COURSE AND APPLY FINAL PAVEMENT MARKINGS AS PER THE SIGNING AND PAVEMENT MARKING PLANS.
- 5. SHIFT THE WESTBOUND TRAFFIC ONTO FINAL CONFIGURATION.
- 6. UTILIZE OFF-PEAK HOURS TO MILL AND RESURFACE THE REMAINING PORTION OF CORTEZ ROAD, PLACE FRICTION COURSE AND APPLY FINAL PAVEMENT MARKINGS PER SIGNING AND PAVEMENT MARKING PLANS.
- 7. SHIFT TRAFFIC ONTO FINAL CONFIGURATION AS PER THE FINAL ROADWAY PLANS.

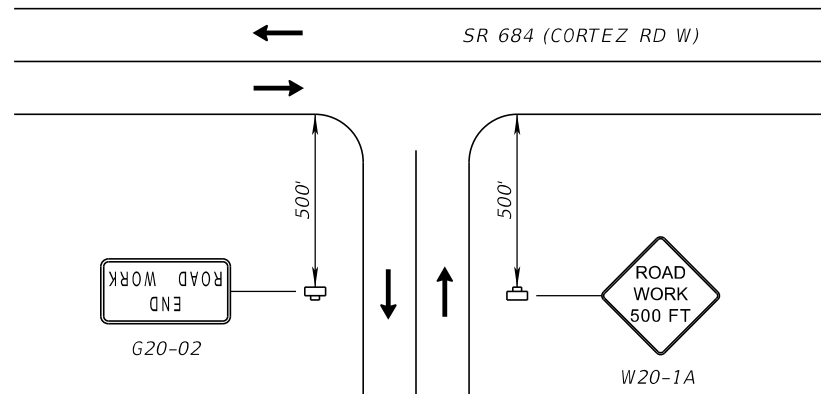
TTC NOTES

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		
								48	

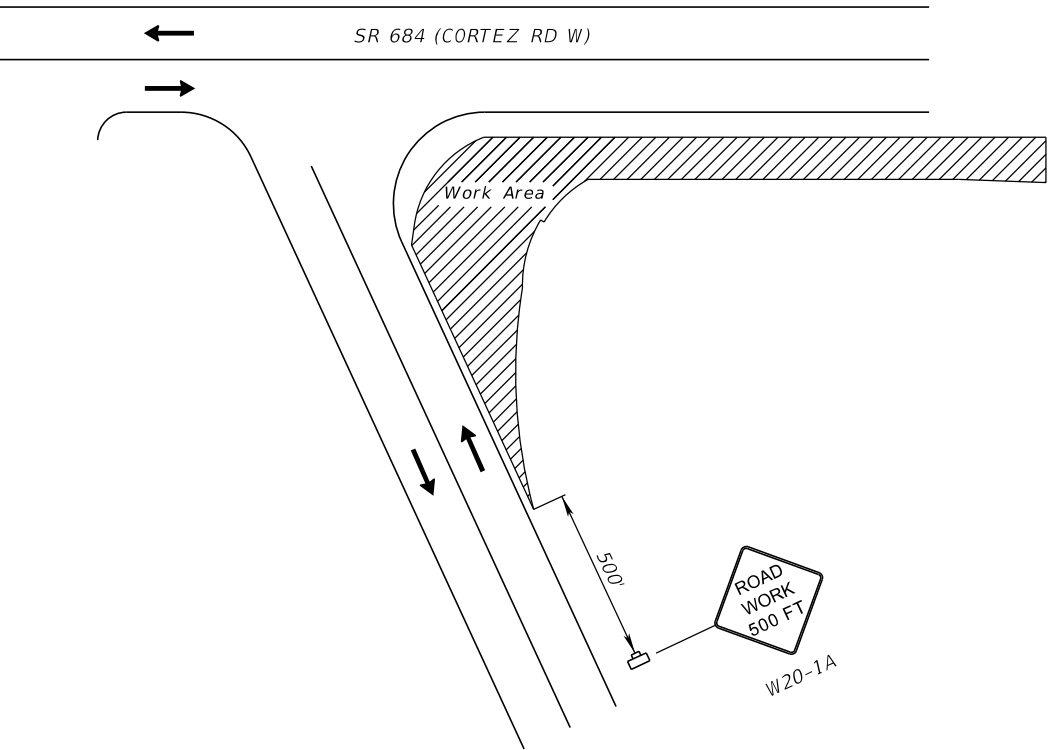
ADVANCED WARNING SIGN DETAIL - SR 684 (CORTEZ RD W) - USED FOR BOTH WB & EB DIRECTIONS



ADVANCED WARNING SIGN DETAIL - SIDE STREETS



ADVANCED WARNING SIGN DETAIL - S. 119TH ST. W.



ADVANCED WARNING SIGN DETAIL

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		49
					SR 684	MANATEE	436551-2-52-01		

①

DETOUR
NORTH

M4-08
M3-01

119TH ST W

D08G

M5-01L

②

DETOUR
NORTH

M4-08
M3-01

119TH ST W

D08G

M5-01R

③

DETOUR
NORTH

M4-08
M3-01

119TH ST W

D08G

M6-03

④

END
DETOUR

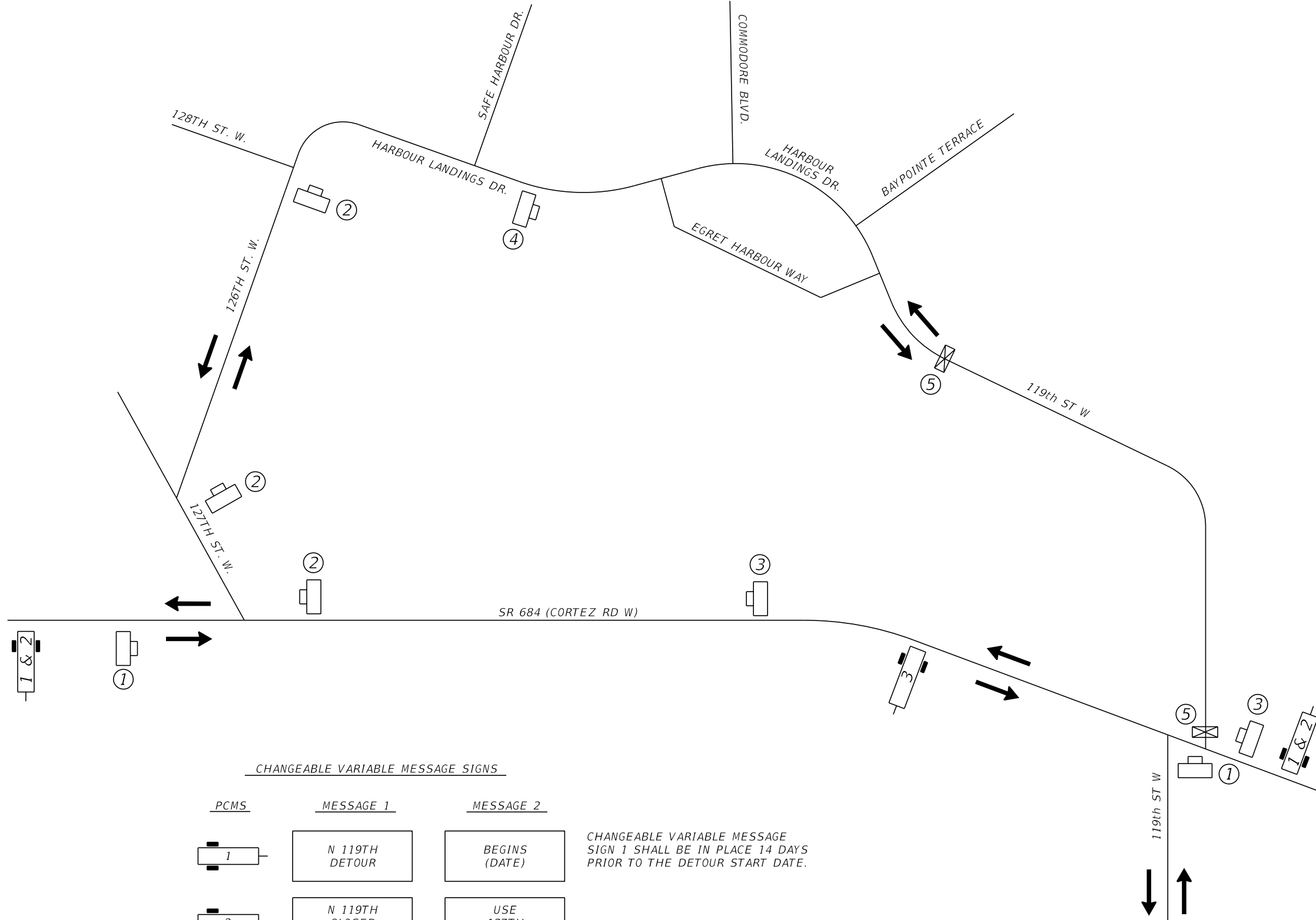
M4-08A

⑤

ROAD
CLOSED

R11-02

WITH TYPE III
BARRICADE



CHANGEABLE VARIABLE MESSAGE SIGNS

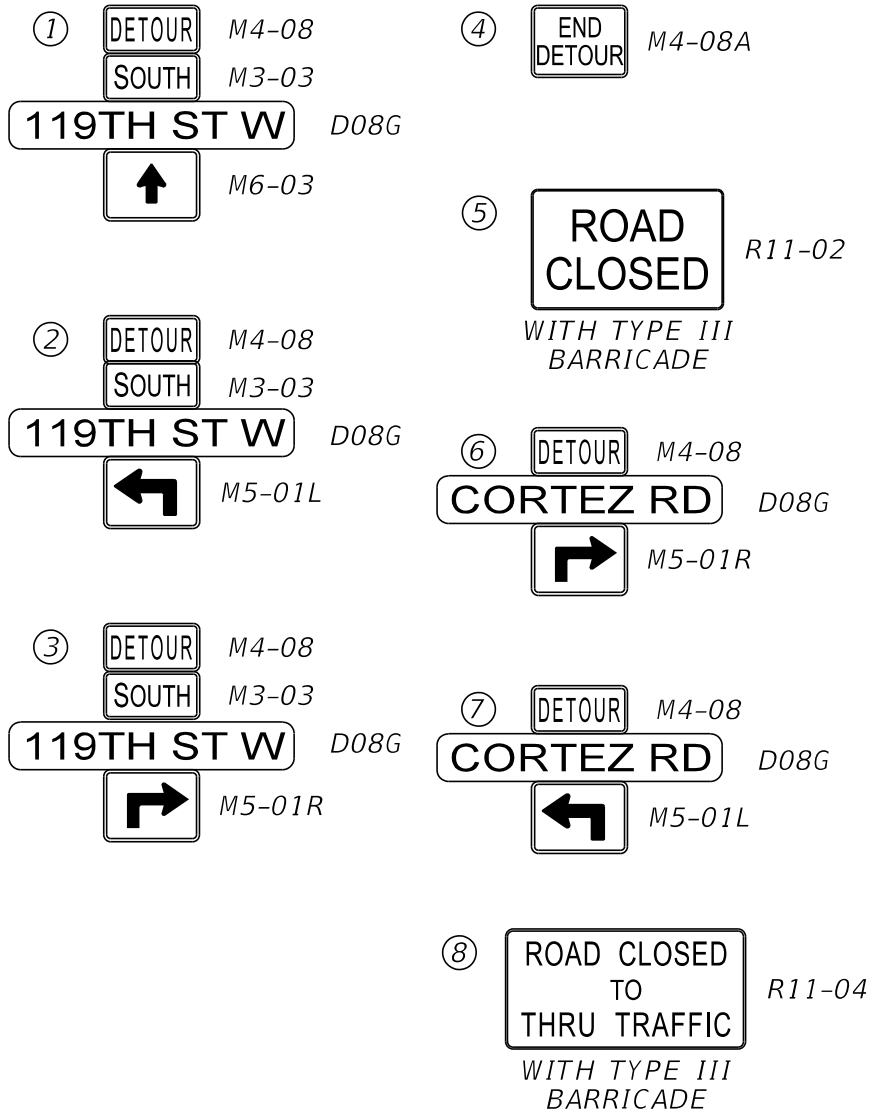
PCMS	MESSAGE 1	MESSAGE 2
	N 119TH DETOUR	BEGINS (DATE)
	N 119TH CLOSED (DATE)	USE 127TH ST W
	N 119TH CLOSED AHEAD	

CHANGEABLE VARIABLE MESSAGE
SIGN 1 SHALL BE IN PLACE 14 DAYS
PRIOR TO THE DETOUR START DATE.

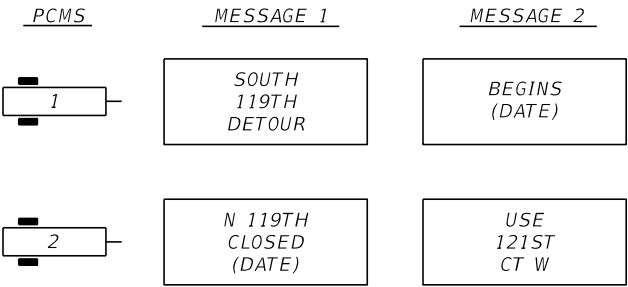
NOTE:
PHASE 1A DETOUR SHALL REMAIN IN PLACE UNTIL THE CONSTRUCTION OF THE
NORTH LEG OF NORTH 119TH ST. IS COMPLETE AND OPEN TO TRAFFIC.

119TH ST. WEST (NORTH) DETOUR
PHASE 1A AND 1B

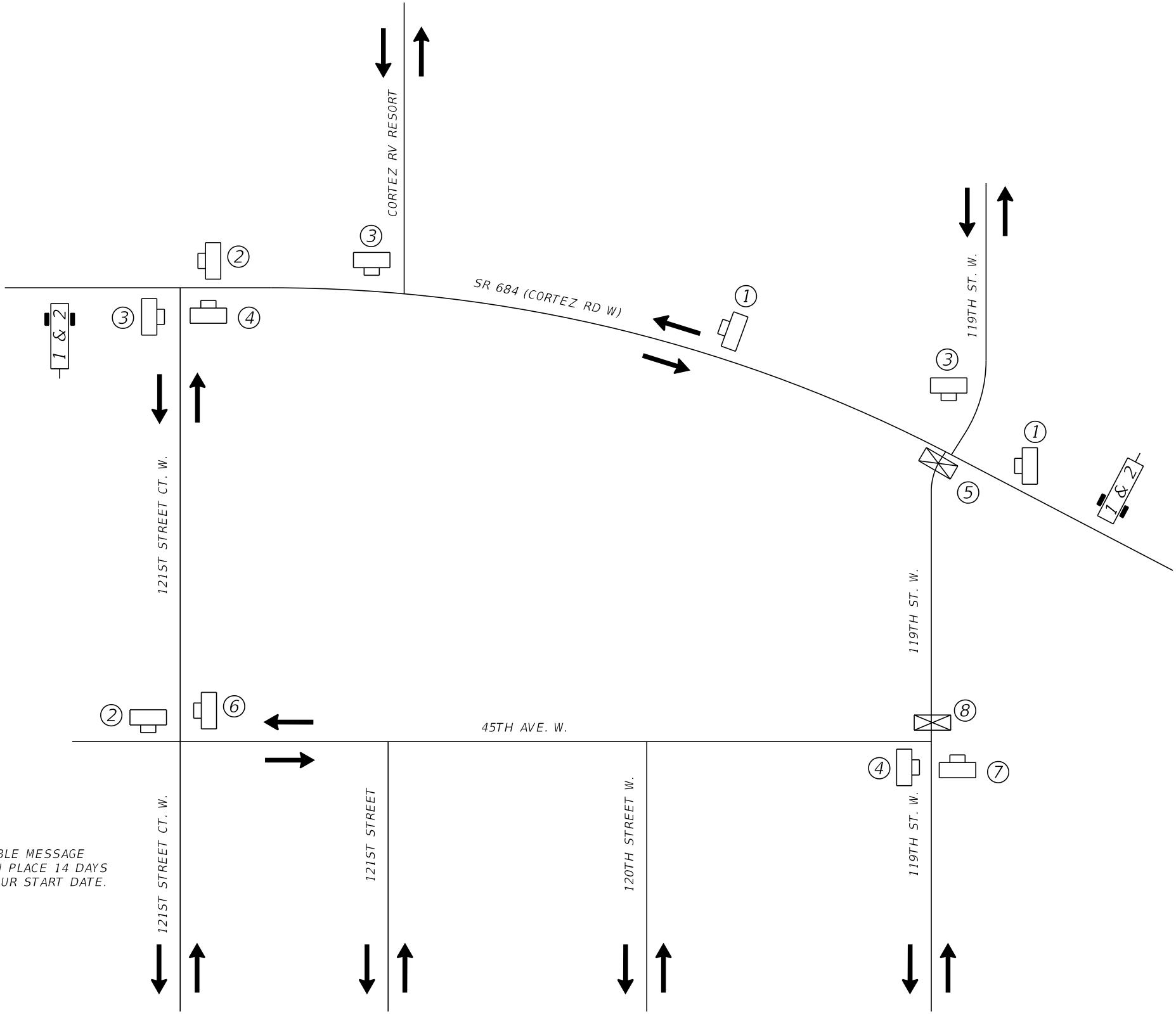
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		50



CHANGEABLE VARIABLE MESSAGE SIGNS



CHANGEABLE VARIABLE MESSAGE
SIGN 1 SHALL BE IN PLACE 14 DAYS
PRIOR TO THE DETOUR START DATE.



NOTE:
PHASE 1B DETOUR WILL OCCUR AFTER THE CONSTRUCTION OF THE NORTH LEG OF NORTH 119TH ST.
AND THE PHASE 1A DETOUR ARE COMPLETE.

119TH ST. WEST (SOUTH) DETOUR
PHASE 1B

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		51
					SR 684	MANATEE	436551-2-52-01		

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- ①

DETOUR

←

M4-09BL
- ②

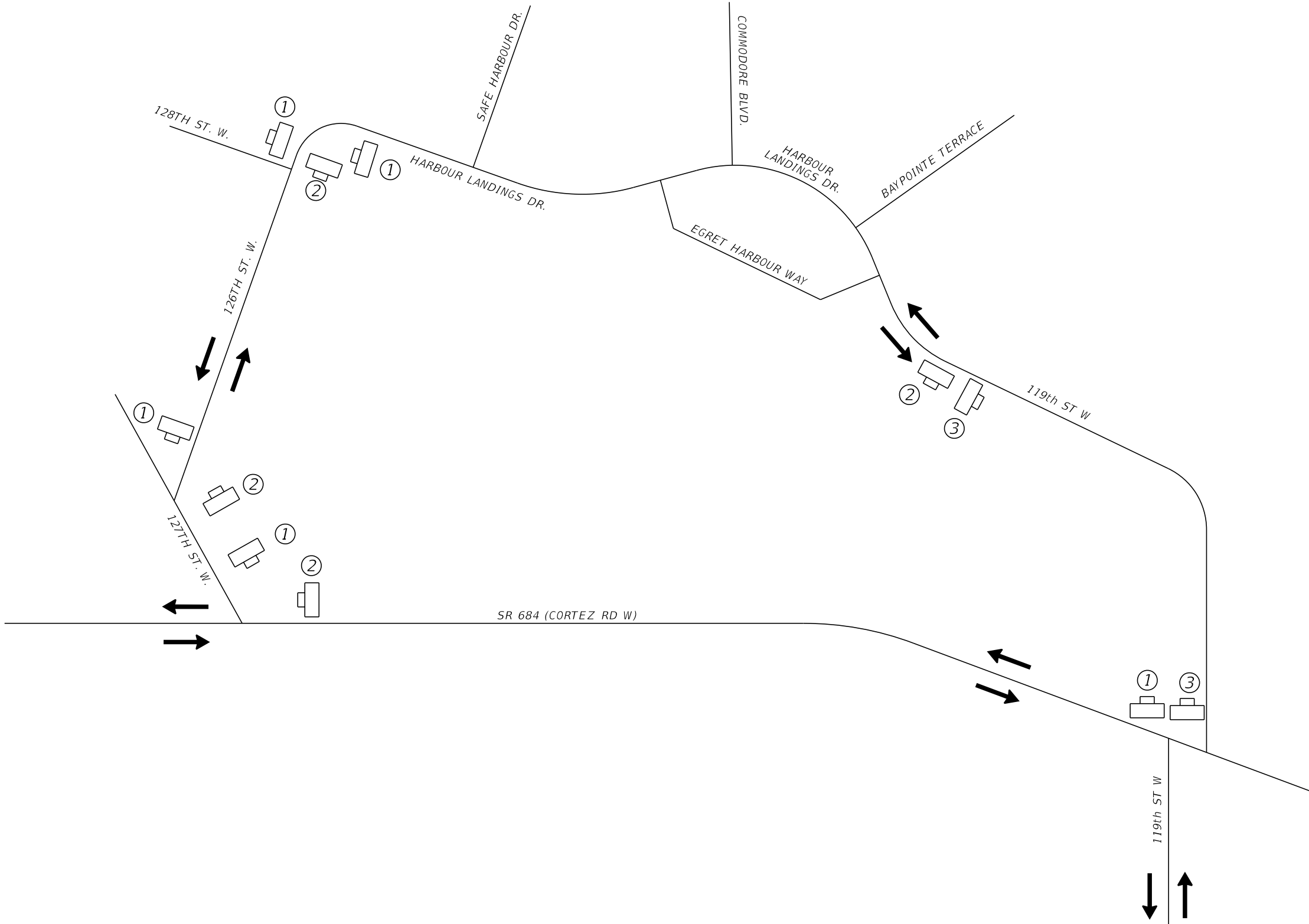
DETOUR

→

M4-09BR
- ③

SIDEWALK
CLOSED

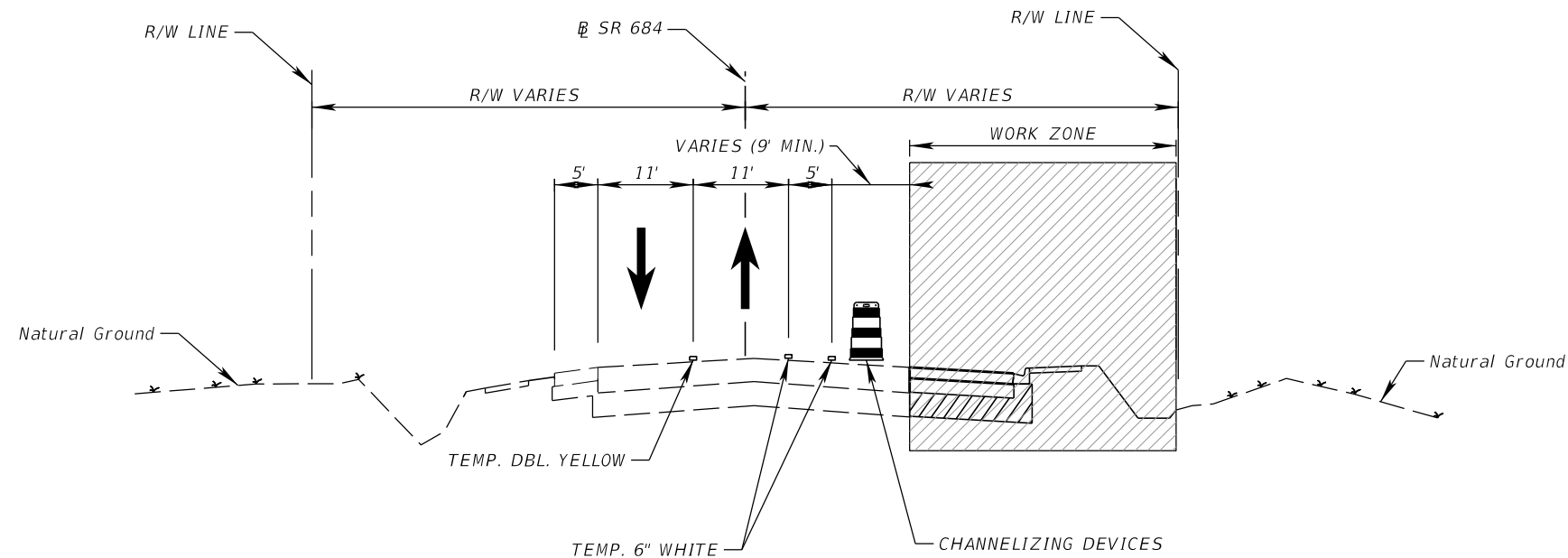
R09-09



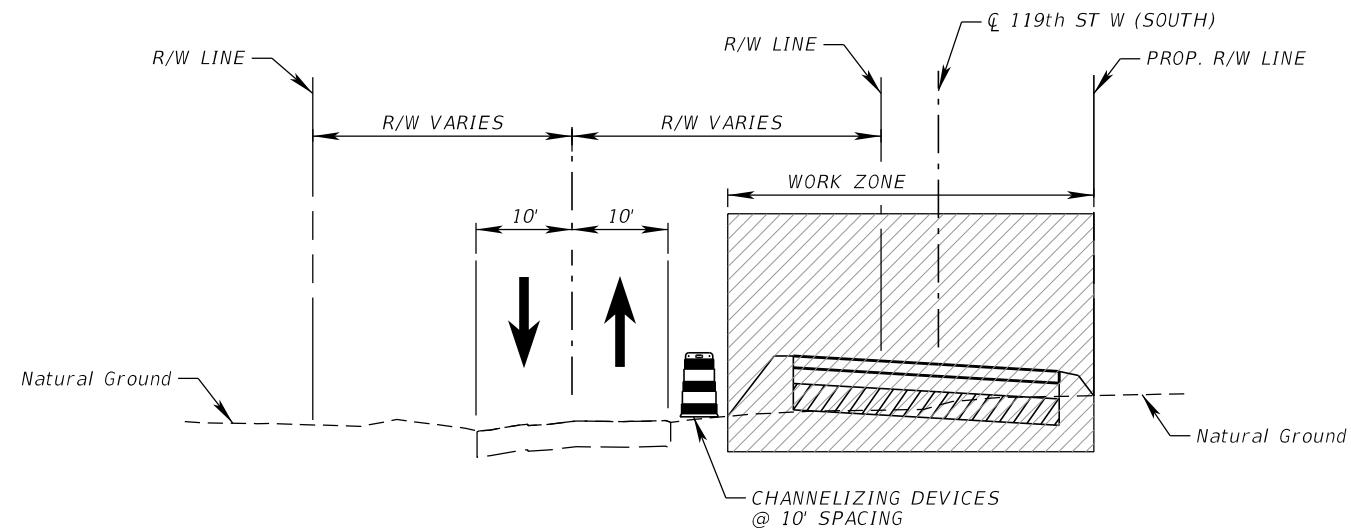
PHASE I
SIDEWALK DETOUR

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		52
					SR 684	MANATEE	436551-2-52-01		

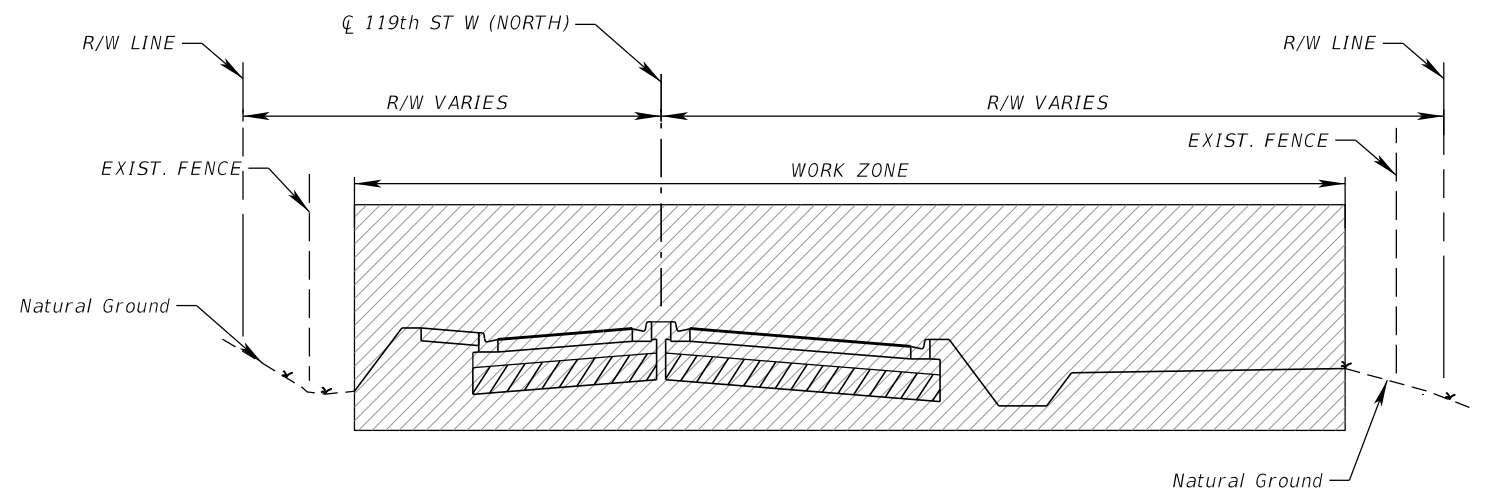
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PHASE I TYPICAL SECTION
SR 684 (CORTEZ RD W)



PHASE I TYPICAL SECTION
119th ST W (SOUTH)



PHASE I TYPICAL SECTION
119th ST W (NORTH)

**PHASE I
TYPICAL SECTIONS**

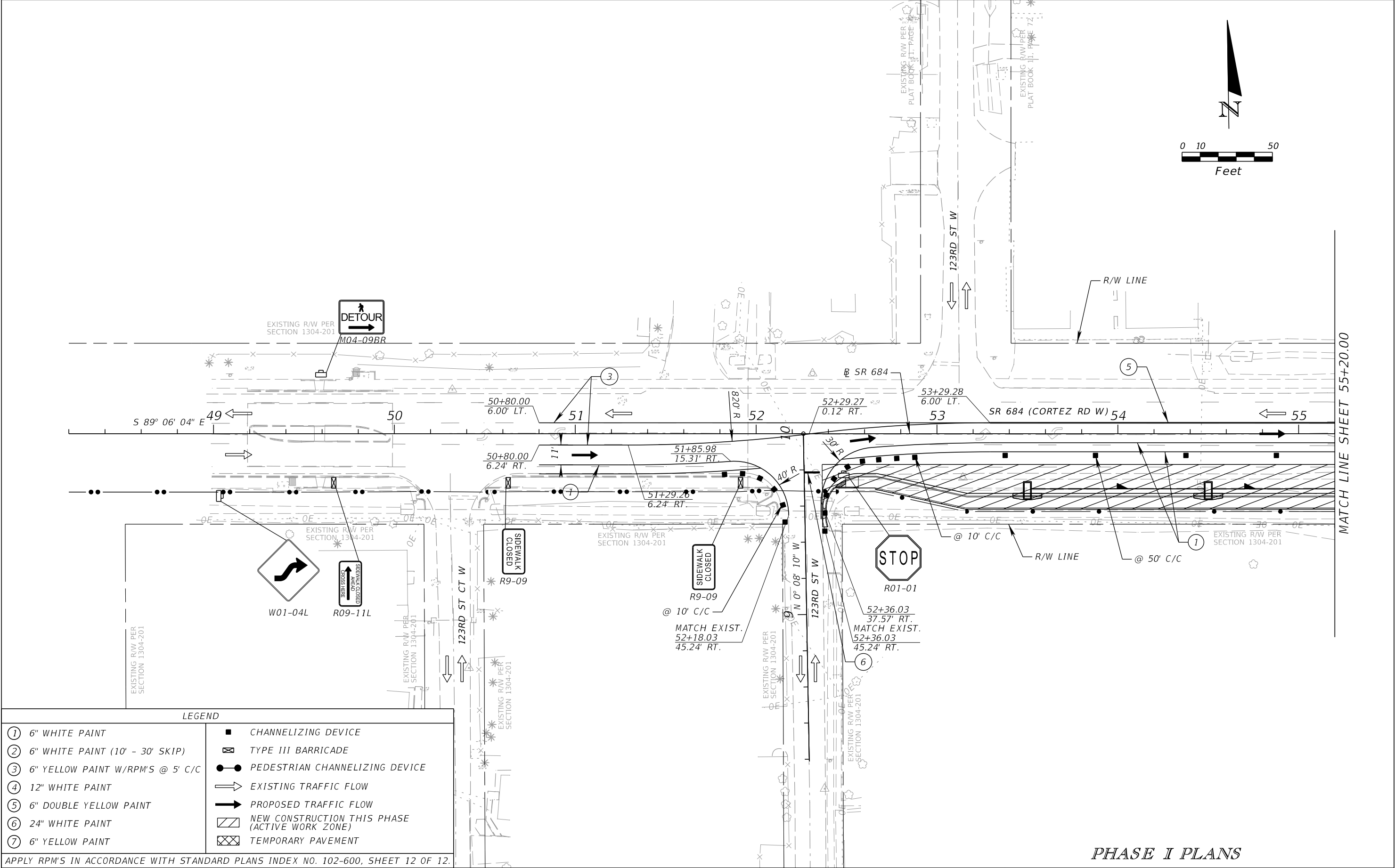
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		53
					SR 684	MANATEE	436551-2-52-01		

CAST6046

3/13/2019

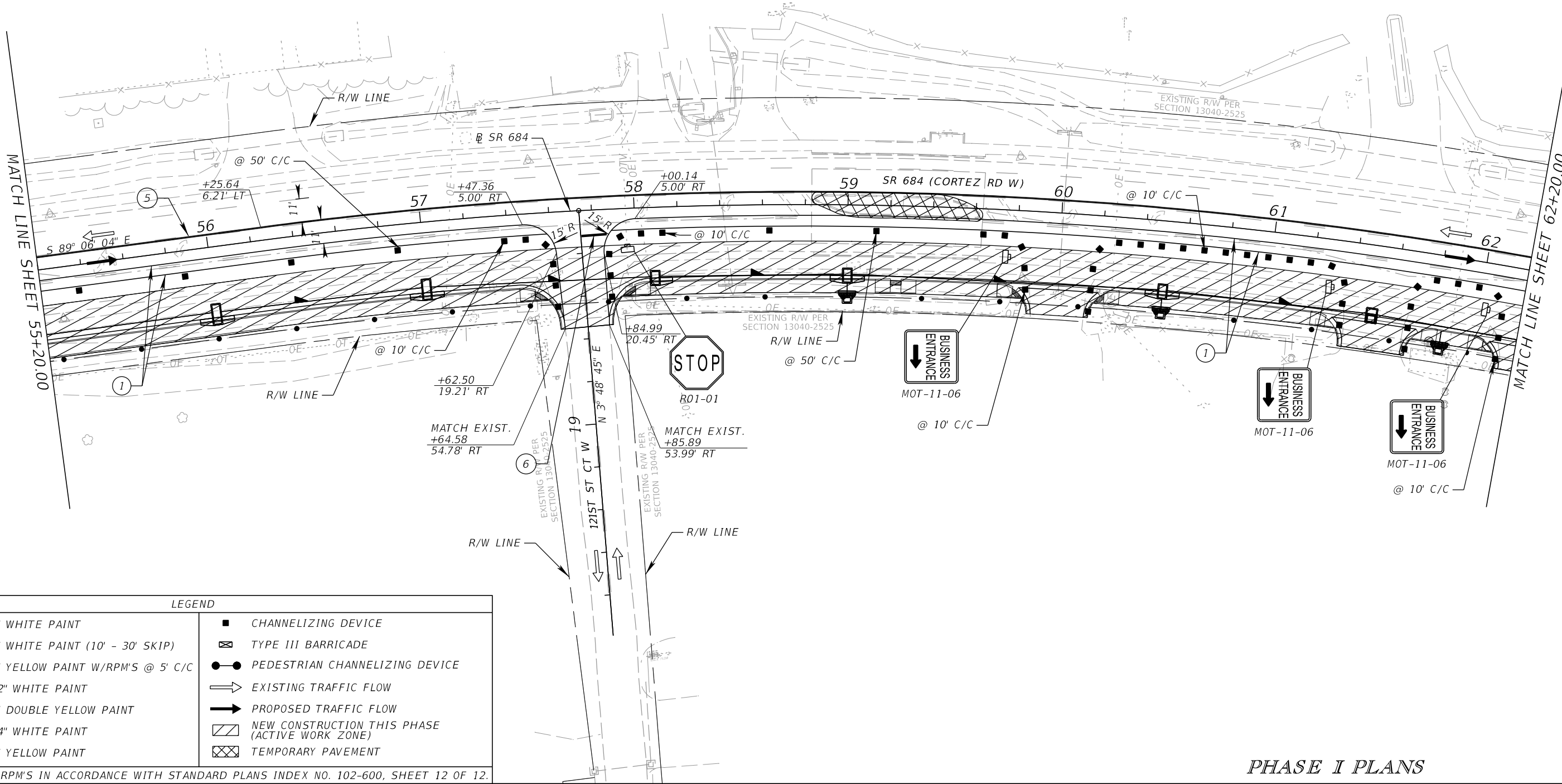
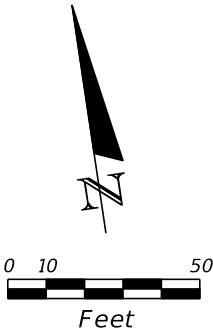
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REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO. 54
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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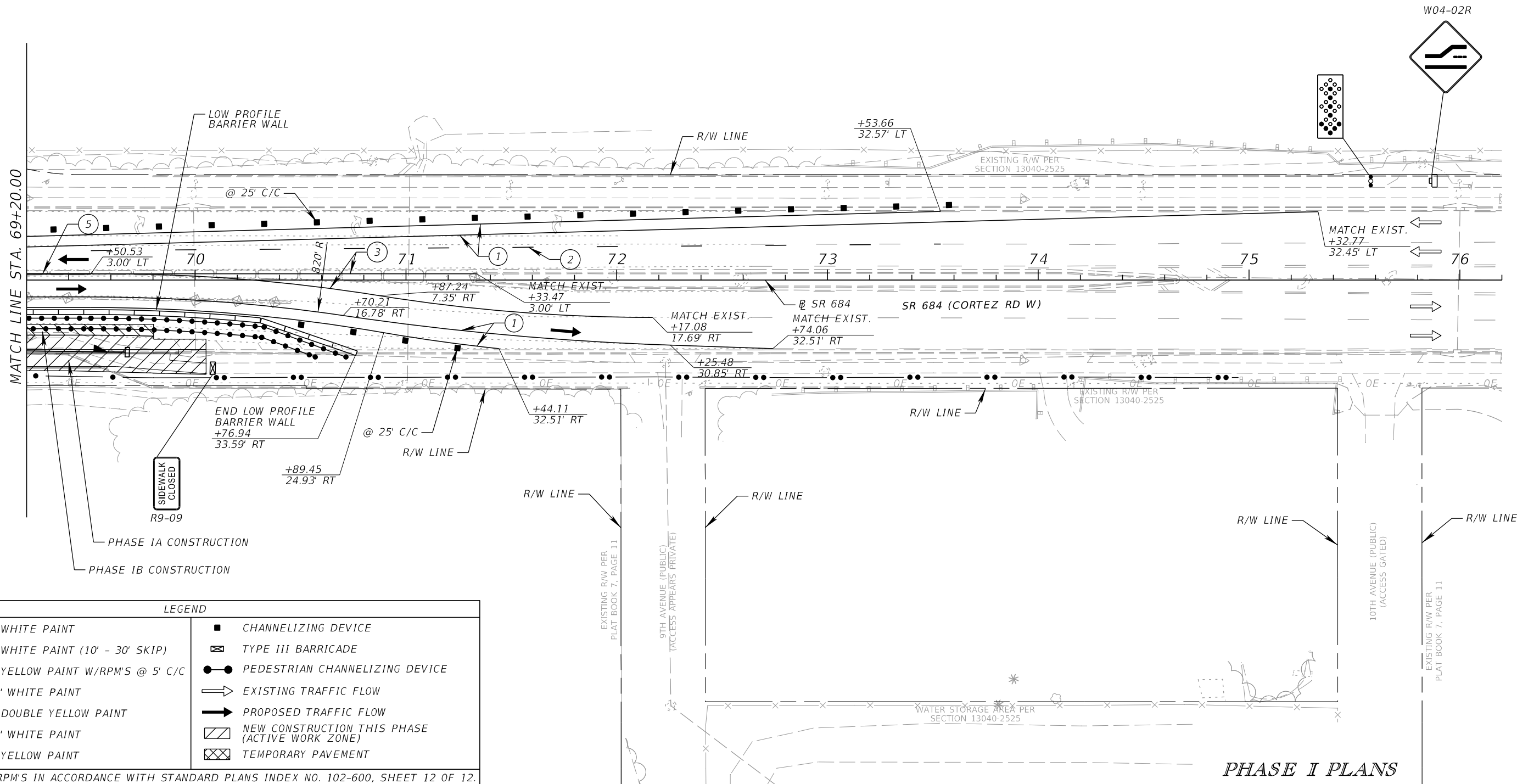
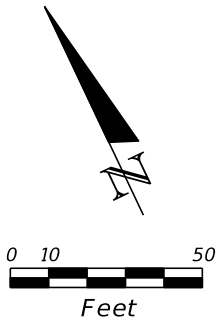
LEGEND

① 6" WHITE PAINT	■ CHANNELIZING DEVICE
② 6" WHITE PAINT (10' - 30' SKIP)	⊠ TYPE III BARRICADE
③ 6" YELLOW PAINT W/RPM'S @ 5' C/C	● PEDESTRIAN CHANNELIZING DEVICE
④ 12" WHITE PAINT	➡ EXISTING TRAFFIC FLOW
⑤ 6" DOUBLE YELLOW PAINT	➡ PROPOSED TRAFFIC FLOW
⑥ 24" WHITE PAINT	▨ NEW CONSTRUCTION THIS PHASE (ACTIVE WORK ZONE)
⑦ 6" YELLOW PAINT	▨ TEMPORARY PAVEMENT

APPLY RPM'S IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 102-600, SHEET 12 OF 12.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO. 55
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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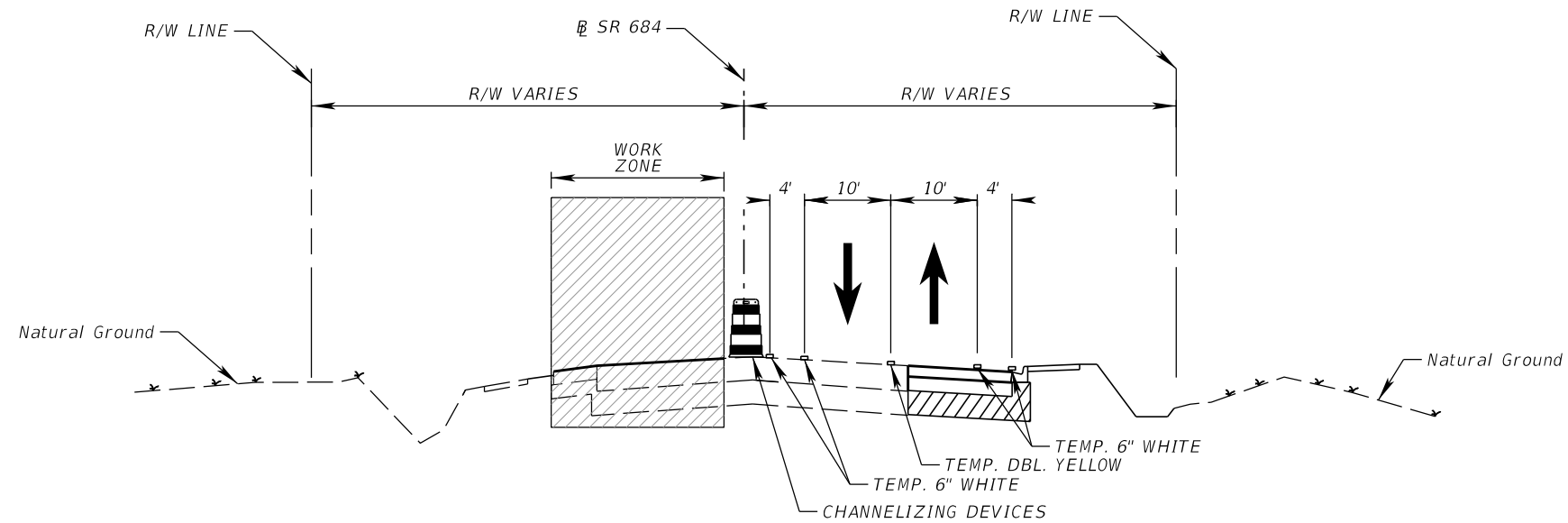
LEGEND

① 6" WHITE PAINT	■ CHANNELIZING DEVICE
② 6" WHITE PAINT (10' - 30' SKIP)	⊠ TYPE III BARRICADE
③ 6" YELLOW PAINT W/RPM'S @ 5' C/C	● PEDESTRIAN CHANNELIZING DEVICE
④ 12" WHITE PAINT	➡ EXISTING TRAFFIC FLOW
⑤ 6" DOUBLE YELLOW PAINT	➡ PROPOSED TRAFFIC FLOW
⑥ 24" WHITE PAINT	▨ NEW CONSTRUCTION THIS PHASE (ACTIVE WORK ZONE)
⑦ 6" YELLOW PAINT	▨ TEMPORARY PAVEMENT

APPLY RPM'S IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 102-600, SHEET 12 OF 12.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO. 57
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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

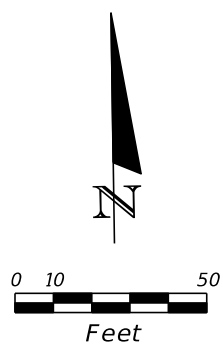
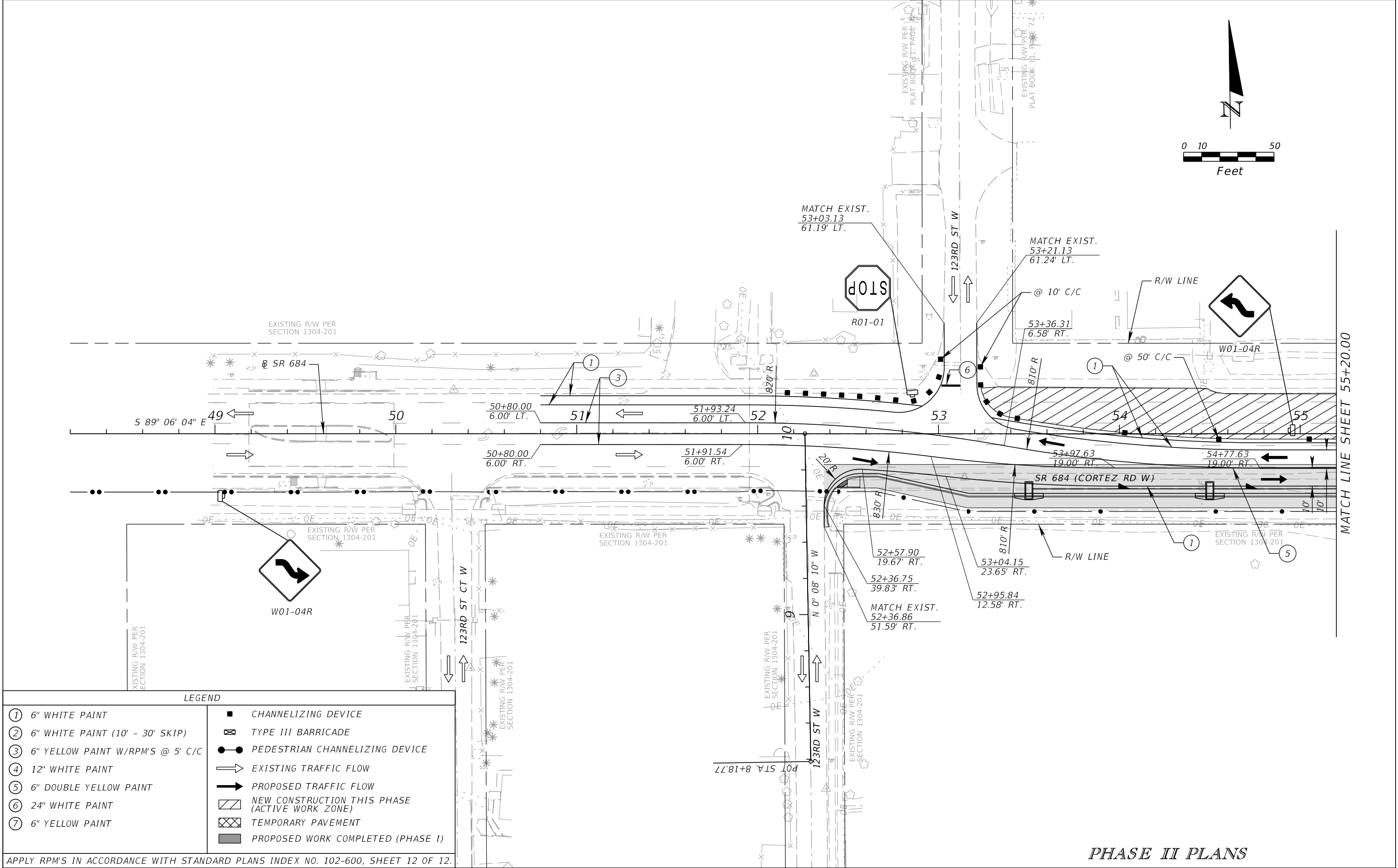


PHASE II TYPICAL SECTION
SR 684 (CORTEZ RD W)

**PHASE II
TYPICAL SECTIONS**

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		58
					SR 684	MANATEE	436551-2-52-01		

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① 6" WHITE PAINT

② 6" WHITE PAINT (10' - 30' SKIP)

③ 6" YELLOW PAINT W/RPM'S @ 5' C/C

④ 12" WHITE PAINT

⑤ 6" DOUBLE YELLOW PAINT

⑥ 24" WHITE PAINT

⑦ 6" YELLOW PAINT

■ CHANNELIZING DEVICE

⊠ TYPE III BARRICADE

● PEDESTRIAN CHANNELIZING DEVICE

➡ EXISTING TRAFFIC FLOW

➡ PROPOSED TRAFFIC FLOW

▨ NEW CONSTRUCTION THIS PHASE (ACTIVE WORK ZONE)

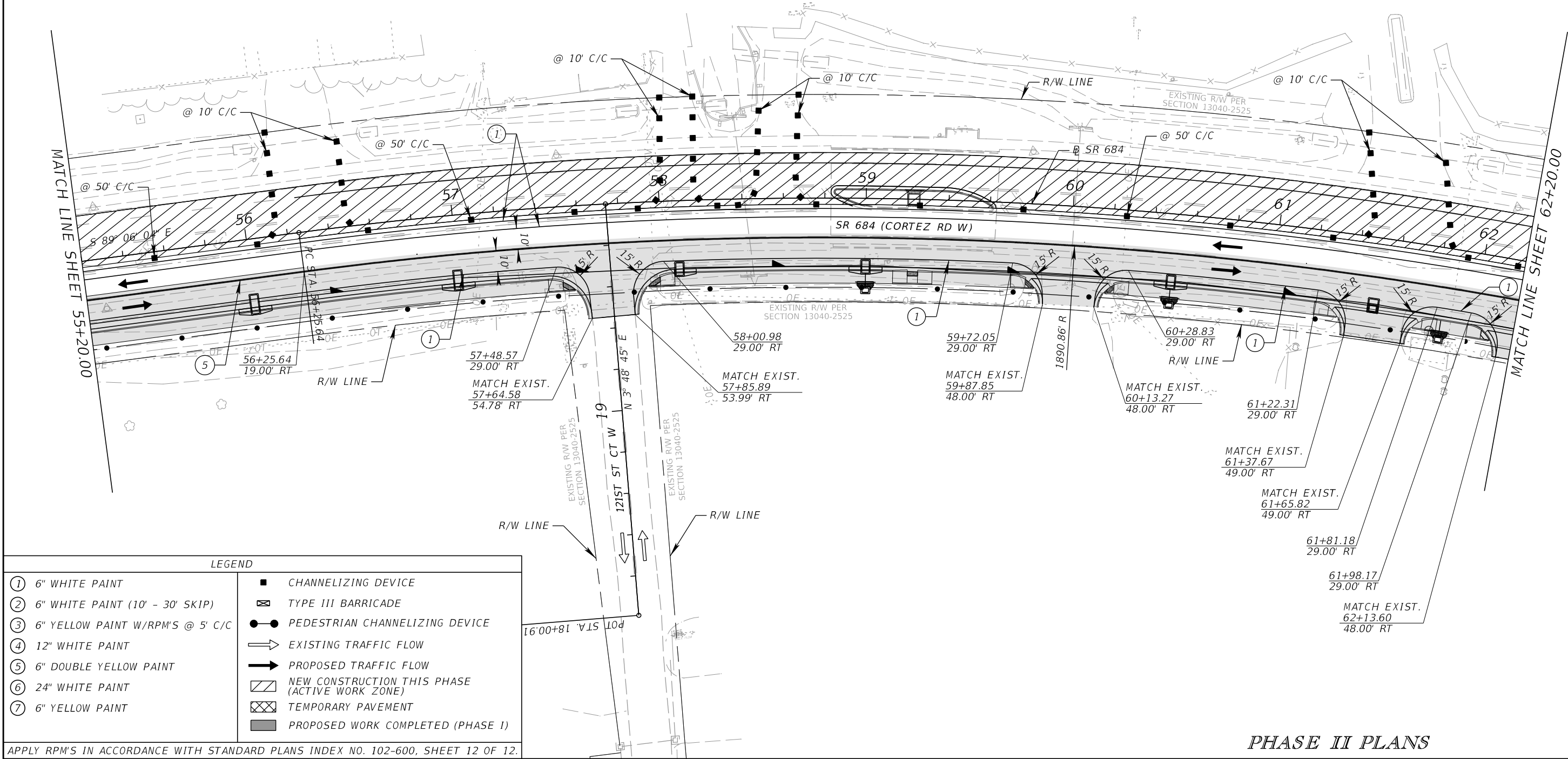
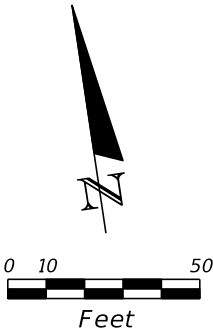
▩ TEMPORARY PAVEMENT

■ PROPOSED WORK COMPLETED (PHASE I)

APPLY RPM'S IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 102-600, SHEET 12 OF 12.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO. 59
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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

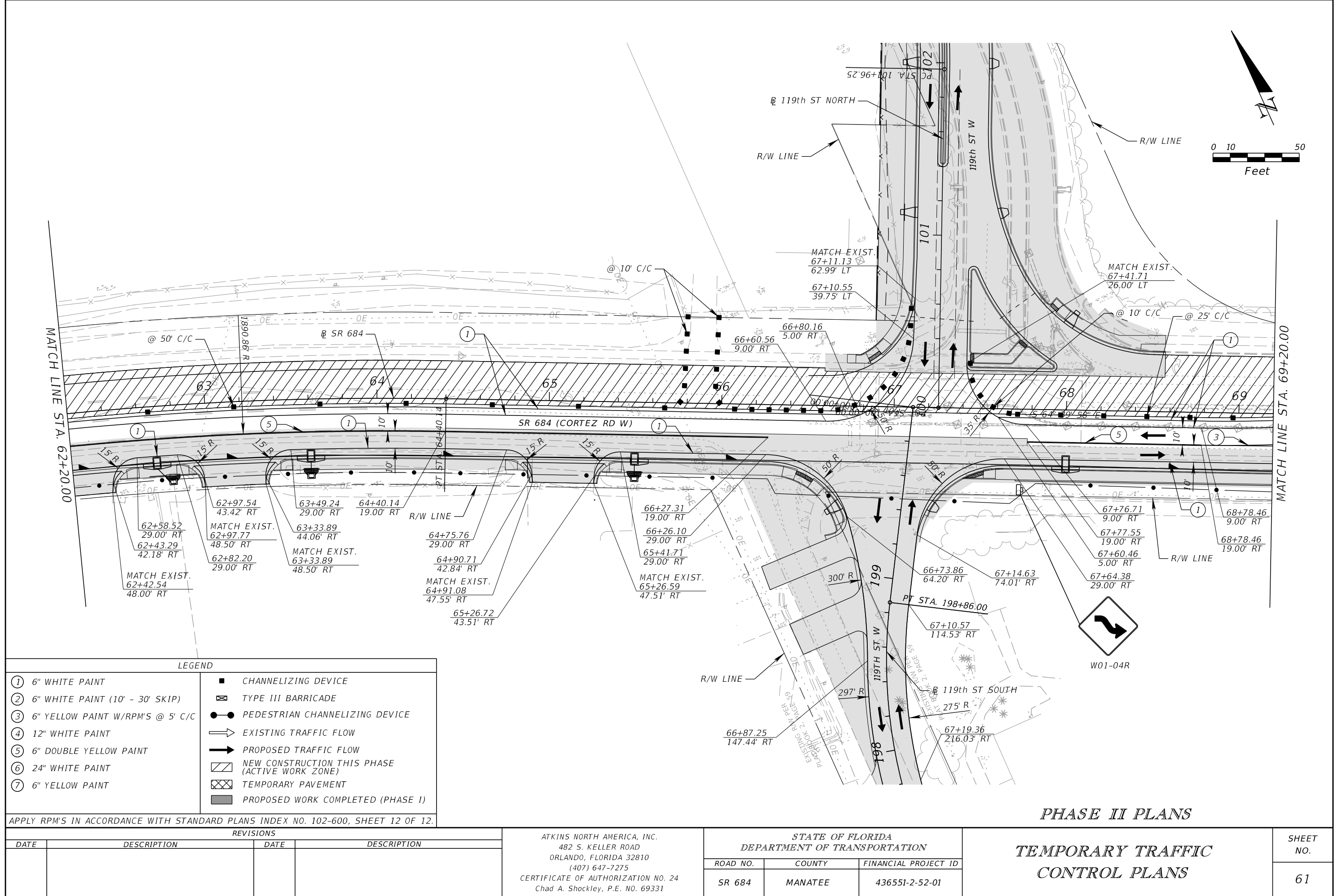


LEGEND			
① 6" WHITE PAINT	■ CHANNELIZING DEVICE		
② 6" WHITE PAINT (10' - 30' SKIP)	⊠ TYPE III BARRICADE		
③ 6" YELLOW PAINT W/RPM'S @ 5' C/C	● PEDESTRIAN CHANNELIZING DEVICE		
④ 12" WHITE PAINT	⇨ EXISTING TRAFFIC FLOW		
⑤ 6" DOUBLE YELLOW PAINT	➡ PROPOSED TRAFFIC FLOW		
⑥ 24" WHITE PAINT	▨ NEW CONSTRUCTION THIS PHASE (ACTIVE WORK ZONE)		
⑦ 6" YELLOW PAINT	▩ TEMPORARY PAVEMENT		
	■ PROPOSED WORK COMPLETED (PHASE I)		

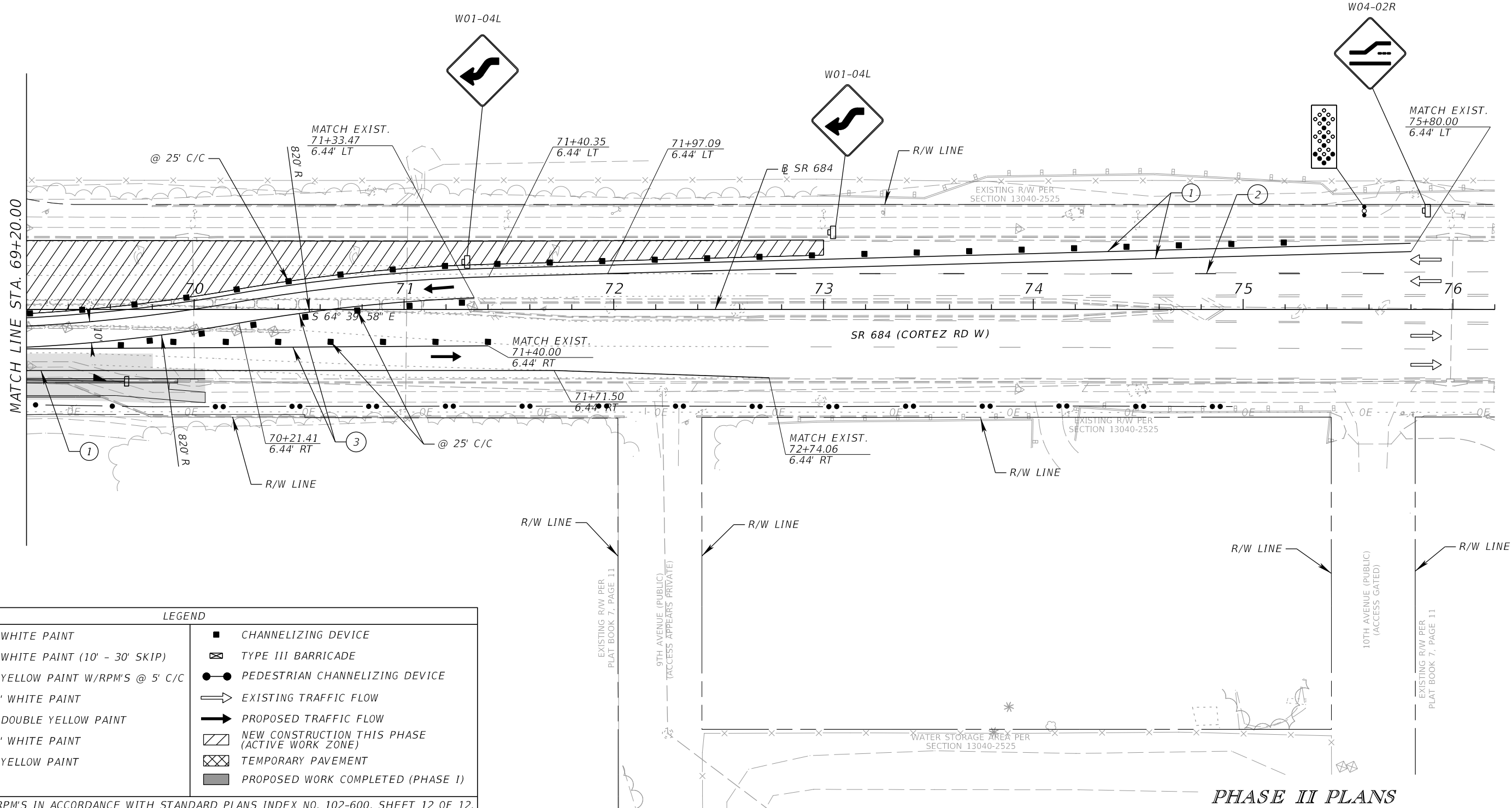
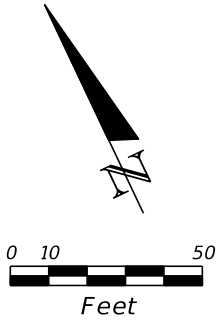
APPLY RPM'S IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 102-600, SHEET 12 OF 12.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO. 60
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
					SR 684	MANATEE		

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LEGEND			
① 6" WHITE PAINT	■ CHANNELIZING DEVICE		
② 6" WHITE PAINT (10' - 30' SKIP)	⊠ TYPE III BARRICADE		
③ 6" YELLOW PAINT W/RPM'S @ 5' C/C	● PEDESTRIAN CHANNELIZING DEVICE		
④ 12" WHITE PAINT	➡ EXISTING TRAFFIC FLOW		
⑤ 6" DOUBLE YELLOW PAINT	➡ PROPOSED TRAFFIC FLOW		
⑥ 24" WHITE PAINT	▨ NEW CONSTRUCTION THIS PHASE (ACTIVE WORK ZONE)		
⑦ 6" YELLOW PAINT	▨ TEMPORARY PAVEMENT		
	■ PROPOSED WORK COMPLETED (PHASE I)		

APPLY RPM'S IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 102-600, SHEET 12 OF 12.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
482 S. KELLER ROAD
ORLANDO, FLORIDA 32810
(407) 647-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Chad A. Shockley, P.E. NO. 69331

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	436551-2-52-01

TEMPORARY TRAFFIC CONTROL PLANS	
62	

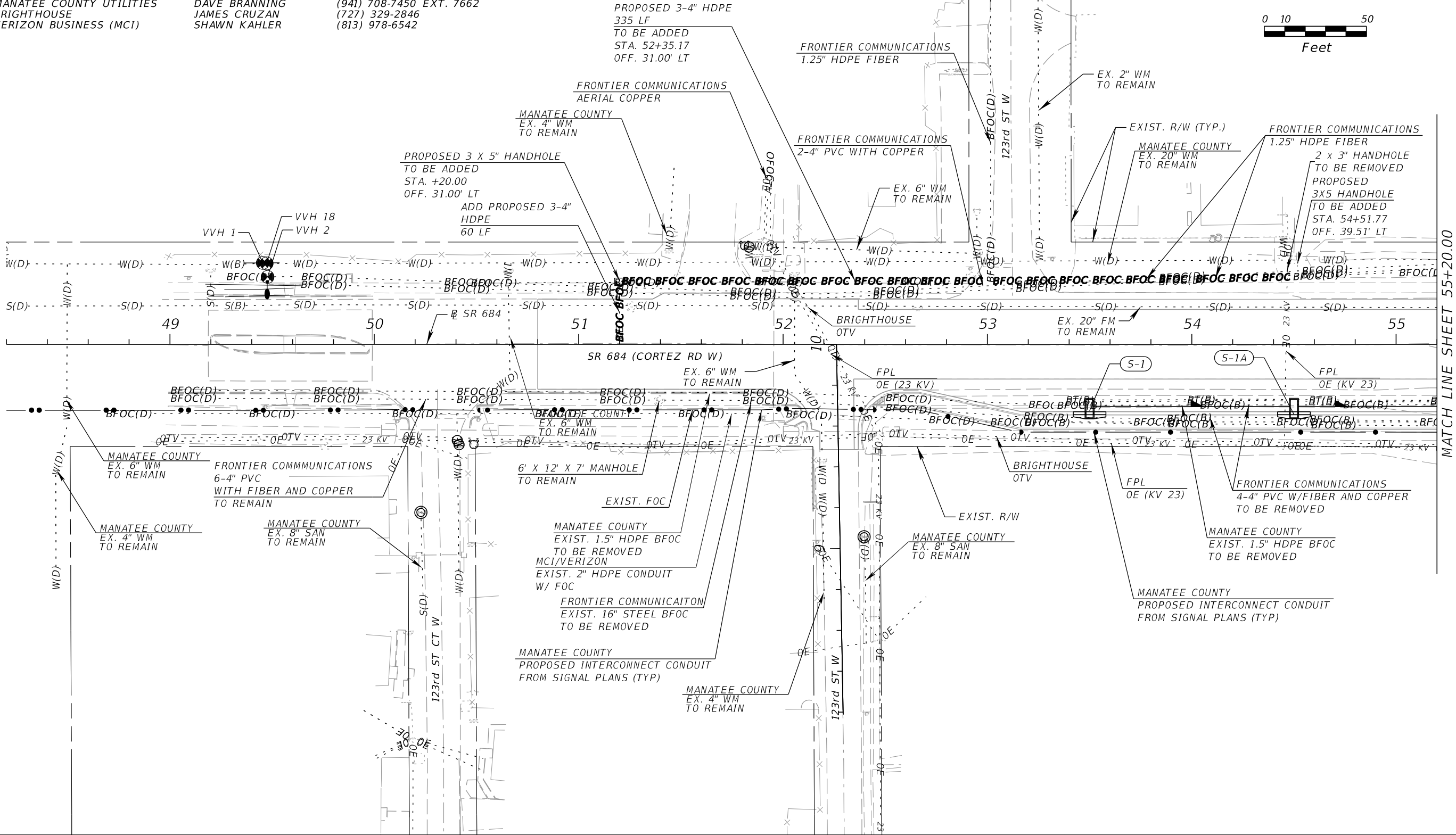
SHEET NO.
62

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

(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.

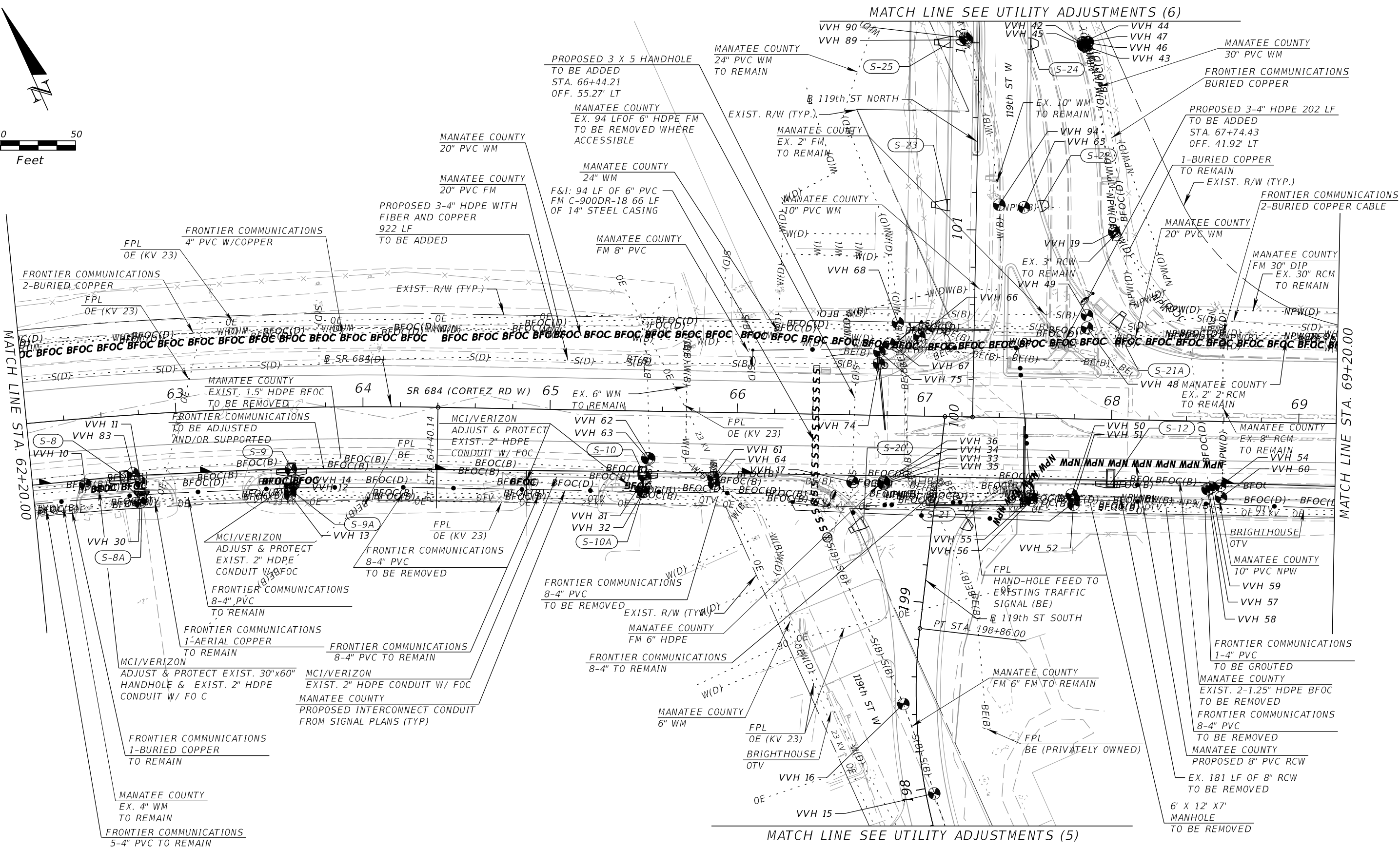
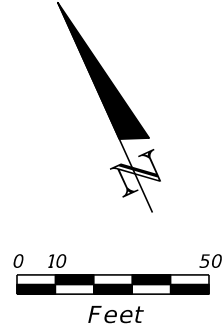
(2) UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBER
FPL DISRIBUTION	GREG COKER	(941) 723-3308
FRONTIER	DENISE HUTTON	(941) 906-6722
MANATEE COUNTY UTILITIES	DAVE BRANNING	(941) 708-7450 EXT. 7662
BRIGHTHOUSE	JAMES CRUZAN	(727) 329-2846
VERIZON BUSINESS (MCI)	SHAWN KAHLER	(813) 978-6542



REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (1)	SHEET NO. 63
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

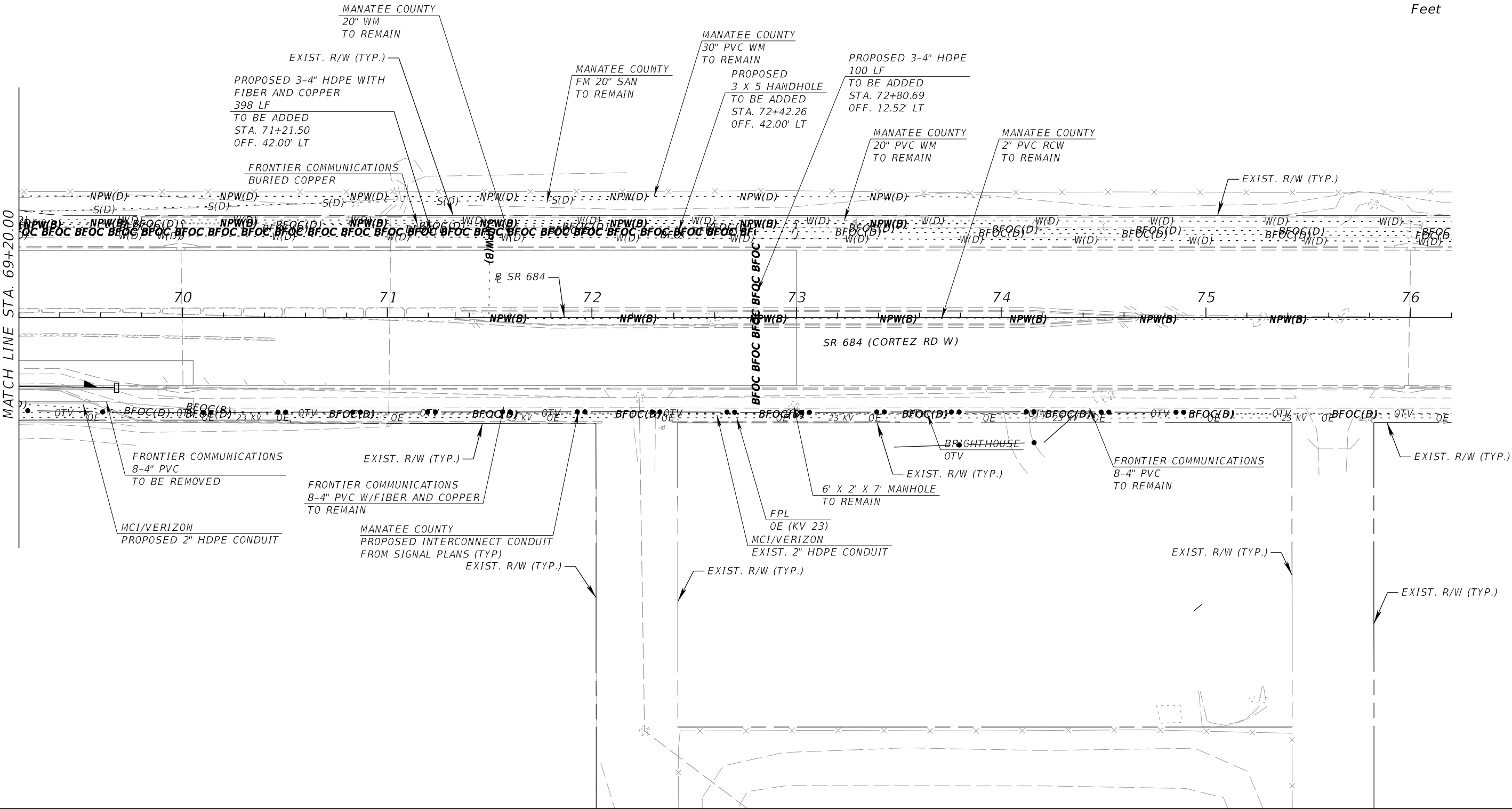
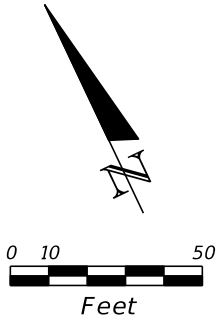
ATKINS NORTH AMERICA, INC.
482 S. KELLER ROAD
ORLANDO, FLORIDA 32810
(407) 647-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Chad A. Shockley, P.E. NO. 69331

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	436551-2-52-01

UTILITY ADJUSTMENTS (3)	

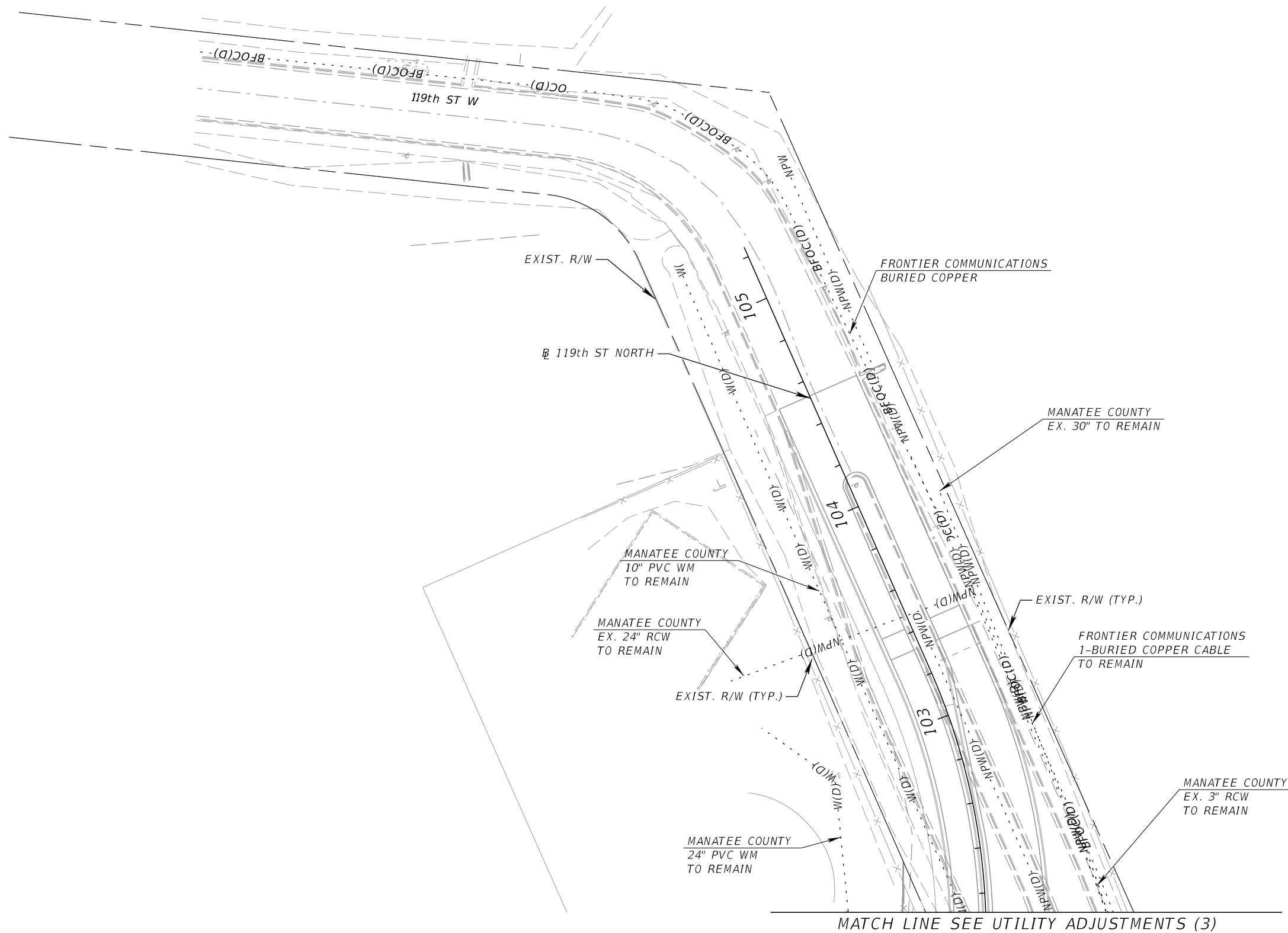
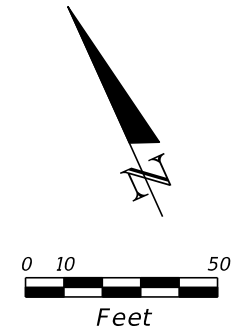
SHEET NO.
65

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REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		66

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REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (6)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		68

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SUMMARY OF VERIFIED UTILITIES									
Vvh #	UTILITY DESCRIPTION (Owner , type)	SIZE	MATERIALS	℅ and/or ℄			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
VVH 1	FDOT,STORM SEWER	20"	RCP	49+45.43	39.82'	LT	3.76'	1.66'	
VVH 2	FRONTIER,FIBER OPTIC CABLE	1.25"	HDPE	49+47.76	32.95'	LT	4.87'	2.17'	
VVH 5	UNKNOWN UTILITY	UNKNOWN	UNKNOWN	59+30.08	39.77'	LT	4.89'	-3.85'	LOCATED BY PROBE ONLY DUE TO GROUND WATER, NO 811 MARKS
VVH 6	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	58+97.70	33.09'	RT	4.09'	-3.55'	LOCATED BY PROBE ONLY DUE TO GROUND WATER
VVH 7	FRONTIER,FIBER OPTIC CABLE TELEPHONE	16"	STEEL	58+98.61	44.69'	RT	1.16'	-0.16'	
VVH 8	FRONTIER,FIBER OPTIC CABLE	1.5"	HDPE	58+98.69	47.10'	RT	2.24'	-0.66'	
VVH 9	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	61+88.80	36.88'	RT	3.50'	0.00'	
VVH 10	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	62+48.54	35.11'	RT	3.91'	-4.89'	LOCATED BY PROBE ONLY
VVH 11	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	62+78.96	36.43'	RT	3.39'	-2.11'	LOCATED BY PROBE ONLY
VVH 12	FRONTIER,FIBER OPTIC CABLE TELEPHONE	5-4"	HDPE	63+59.89	44.63'	RT	2.36'	0.76'	NORTH EDGE OF CLUSTER
VVH 13	FRONTIER,FIBER OPTIC CABLE TELEPHONE	5-4"	HDPE	63+59.89	46.48'	RT	3.33'	0.99'	SOUTH EDGE OF CLUSTER
VVH 14	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	63+60.69	32.89'	RT	3.39'	-4.41'	LOCATED BY PROBE ONLY
VVH 17	MANATEE COUNTY,SEWER FORCE MAIN	6"	HDPE	66+62.24	35.89'	RT	4.24'	-0.86'	
VVH 18	MANATEE COUNTY,WATER MAIN	20"	DIP	49+47.34	39.56'	LT	3.95'	-1.35'	
VVH 20	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	57+53.95	33.05'	RT	4.06'	0.39'	
VVH 21	FRONTIER,TELEPHONE	4"	HDPE	57+25.03	31.86'	RT	3.61'	0.14'	
VVH 22	FRONTIER,TELEPHONE	4"	HDPE	57+24.06	31.87'	RT	3.50'	0.03'	
VVH 23	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	57+22.97	33.30'	RT	3.17'	0.07'	
VVH 24	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	56+00.53	36.45'	RT	2.40'	-3.02'	LOCATED BY PROBE ONLY
VVH 25	FRONTIER,FIBER OPTIC CABLE TELEPHONE	4-4"	HDPE	55+71.39	28.80'	RT	4.39'	1.18'	SOUTH EDGE OF CLUSTER
VVH 26	FRONTIER,FIBER OPTIC CABLE TELEPHONE	4-4"	HDPE	55+71.36	27.64'	RT	4.41'	1.20'	NORTH EDGE OF CLUSTER
VVH 28	FRONTIER,TELEPHONE	N/A	N/A	60+49.72	43.74'	RT	0.87'	-1.18'	LOCATED BY PROBE ONLY
VVH 29	FRONTIER,FIBER OPTIC CABLE	1.25"	HDPE	60+49.51	49.09'	RT	2.39'	-0.31'	
VVH 30	FRONTIER,FIBER OPTIC CABLE	4"	HDPE	62+77.81	47.03'	RT	4.16'	-0.37'	
VVH 31	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	65+51.55	35.39'	RT	3.85'	-5.55'	LOCATED BY PROBE ONLY
VVH 32	FRONTIER,FIBER OPTIC CABLE TELEPHONE	9-4"	HDPE	65+50.54	43.28'	RT	2.53'	0.98'	
VVH 33	MANATEE COUNTY,FIBER OPTIC CABLE	1.5"	HDPE	66+79.00	36.27'	RT	4.23'	-1.07'	
VVH 34	MANATEE COUNTY,TRAFFIC SIGNAL	3-2"	HDPE	66+79.01	35.84'	RT	4.29'	2.41'	
VVH 35	MANATEE COUNTY,TRAFFIC SIGNAL	2-2"	HDPE	66+78.92	36.62'	RT	4.19'	2.50'	
VVH 36	MANATEE COUNTY,TRAFFIC SIGNAL	2"	HDPE	66+78.92	35.37'	RT	4.25'	2.15'	
VVH 48	MANATEE COUNTY,SEWER FORCE MAIN	24"	DIP	67+85.99	48.75'	LT	4.71'	0.64'	
VVH 49	MANATEE COUNTY,SEWER FORCE MAIN	20"	DIP	67+85.84	55.46'	LT	4.62'	-1.28'	
VVH 50	MANATEE COUNTY,NON-POTABLE WATER MAIN	10"	PVC	67+79.41	40.55'	RT	2.78'	-1.65'	
VVH 51	FRONTIER,FIBER OPTIC CABLE TELEPHONE	4-4"	HDPE	67+80.71	42.83'	RT	2.44'	-1.08'	
VVH 52	FRONTIER,FIBER OPTIC CABLE TELEPHONE	3-4"	HDPE	67+80.50	45.74'	RT	1.97'	-1.28'	
VVH 54	MANATEE COUNTY,FIBER OPTIC CABLE	2-1.25"	HDPE	68+58.67	34.35'	RT	4.38'	1.38'	
VVH 55	FRONTIER,FIBER OPTIC CABLE TELEPHONE	9-4"	HDPE	67+57.83	42.59'	RT	2.86'	-0.54'	NORTH EDGE OF CLUSTER
VVH 56	FRONTIER,FIBER OPTIC CABLE TELEPHONE	9-4"	HDPE	67+57.94	44.02'	RT	2.67'	-0.76'	SOUTH EDGE OF CLUSTER
VVH 57	FRONTIER,TELEPHONE	4"	HDPE	68+52.46	36.28'	RT	4.28'	0.71'	
VVH 58	FRONTIER,TELEPHONE	4"	HDPE	68+51.90	36.23'	RT	4.33'	0.23'	
VVH 59	MCI,FIBER OPTIC CABLE	2"	HDPE	68+54.00	35.31'	RT	4.21'	1.56'	
VVH 60	MANATEE COUNTY,NON-POTABLE WATER MAIN	10"	PVC	68+59.18	40.62'	RT	3.56'	-6.29'	LOCATED BY PROBE ONLY
VVH 61	MANATEE COUNTY,TRAFFIC SIGNAL	2"	HDPE	65+87.86	34.64'	RT	4.34'	2.36'	
VVH 62	FRONTIER,TELEPHONE	4"	CIP	65+53.43	25.29'	RT	4.82'	1.17'	
VVH 63	FRONTIER,TELEPHONE	4"	HDPE	65+52.40	25.21'	RT	4.82'	1.13'	
VVH 64	MANATEE COUNTY,WATER MAIN	6"	PVC	65+88.31	38.26'	RT	3.77'	-5.84'	LOCATED BY PROBE ONLY
VVH 66	MANATEE COUNTY,SEWER FORCE MAIN	24"	PVC	66+96.53	42.76'	LT	4.59'	1.17'	
VVH 67	MANATEE COUNTY,WATER MAIN	20"	DIP	66+80.74	38.36'	LT	4.54'	-2.16'	
VVH 68	MANATEE COUNTY,WATER MAIN	20"	DIP	66+84.90	49.57'	LT	3.87'	-2.43'	
VVH 74	MANATEE COUNTY,SEWER FORCE MAIN	20"	PVC	66+75.25	27.58'	LT	4.78'	0.98'	
VVH 75	MANATEE COUNTY,TRAFFIC SIGNAL	2-2"	HDPE	66+75.31	33.94'	LT	4.57'	2.65'	
REVISIONS			ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			VERIFIED UTILITY LOCATE SHEET		SHEET NO.
DATE	DESCRIPTION	DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
				SR 684	MANATEE	436551-2-52-01			69

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SUMMARY OF VERIFIED UTILITIES									
Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	℅ and/or ℄			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
VVH 80	FRONTIER,FIBER OPTIC CABLE TELEPHONE	9-4"	HDPE	61+94.83	50.40'	RT	3.56'	1.31'	SOUTH EDGE OF CLUSTER
VVH 81	FRONTIER,FIBER OPTIC CABLE TELEPHONE	9-4"	HDPE	61+94.77	48.80'	RT	3.59'	1.34'	NORTH EDGE OF CLUSTER
VVH 82	MANATEE COUNTY,WATER SERVICE LINE	1"	HDPE	61+92.74	48.50'	RT	3.51'	1.61'	
VVH 83	MCI,FIBER OPTIC CABLE	2"	HDPE	62+74.79	31.16'	RT	4.17'	1.97'	
VVH 84	MANATEE COUNTY,WATER MAIN	4"	PVC	61+93.13	47.25'	RT	3.55'	1.95'	
VVH 85	FRONTIER,TELEPHONE	4"	HDPE	61+91.13	31.15'	RT	4.24'	0.74'	
VVH 86	FRONTIER,TELEPHONE	4"	HDPE	61+89.95	31.12'	RT	4.25'	0.73'	
VVH 87	FRONTIER,FIBER OPTIC CABLE TELEPHONE	6-4"	HDPE	56+97.93	32.85'	RT	3.29'	1.44'	WEST EDGE OF CLUSTER
VVH 88	FRONTIER,FIBER OPTIC CABLE TELEPHONE	6-4"	HDPE	56+99.47	31.71'	RT	3.67'	1.82'	EAST EDGE OF CLUSTER
	Stations and offsets below are based on BL 119th St S.								
VVH 15	MANATEE COUNTY,SEWER FORCE MAIN	6"	DIP	197+96.54	4.34'	RT	2.91'	0.67'	
VVH 16	MANATEE COUNTY,SEWER FORCE MAIN	6"	DIP	198+45.69	6.89'	LT	3.01'	0.37'	LOCATED BY PROBE ONLY DUE TO ROOTS
	Stations and offsets below are based on BL 119th St N,								
VVH 19	FRONTIER,TELEPHONE	1.5"/4"	DBC/HDPE	101+00.44	73.83'	RT	4.09'	1.99'	
VVH 42	FRONTIER,TELEPHONE	1.5"	DBC	101+99.14	55.57'	RT	4.71'	2.71'	
VVH 43	PRIVATE,NON-POTABLE WATER MAIN	3"	PVC	101+99.04	56.06'	RT	4.68'	3.36'	
VVH 44	PRIVATE,IRRIGATION	0.5"	PVC	102+00.45	55.36'	RT	4.66'	3.16'	
VVH 45	PRIVATE,IRRIGATION	3"	PVC	101+98.82	56.23'	RT	4.70'	3.05'	
VVH 46	FRONTIER,TELEPHONE	4"	HDPE	102+00.34	57.61'	RT	4.46'	2.56'	
VVH 47	PRIVATE,ELECTRIC	0.75"	PVC	102+00.52	58.00'	RT	4.45'	3.65'	
VVH 65	MANATEE COUNTY,IRRIGATION	3"/2-1.5"	PVC	101+12.49	25.47'	RT	4.29'	2.09'	
VVH 89	MANATEE COUNTY,WATER MAIN	12"	PVC	102+01.52	6.49'	LT	4.50'	1.05'	
VVH 90	PRIVATE,IRRIGATION	2-2"	PVC	102+02.67	7.61'	LT	4.51'	3.51'	
VVH 94	MANATEE COUNTY,WATER MAIN	12"	PVC	101+13.63	12.20'	RT	4.19'	0.17'	

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			VERIFIED UTILITY LOCATE SHEET	SHEET NO.
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									70

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GENERAL NOTES - SHEET PILE WALLS

GENERAL SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2019).

DESIGN SPECIFICATIONS:

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (7TH EDITION) WITH 2015 AND 2016 INTERIMS AND FDOT STRUCTURES DESIGN MANUAL, JANUARY 2018.

DESIGN METHODOLOGY:

1. LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD) USING ALL APPLICABLE LIMIT STATES. ALL SHEET PILING IS DESIGNED BASED ON THE FOLLOWING LOAD AND RESISTANCE FACTORS:

SHEET PILE CAPACITY:

LOAD FACTOR = 1.5 (EARTH PRESSURE) & 1.75 (LIVE LOAD SURCHARGE)
RESISTANCE FACTOR = 0.9

WALL STABILITY:

LOAD FACTOR = 1.0
RESISTANCE FACTOR = 0.75

DEFLECTION CHECK:

LOAD FACTOR = 1.0
RESISTANCE FACTOR = 1.0

2. SHEET PILES ARE DESIGNED FOR A LIVE LOAD SURCHARGE OF 230 PSF (2 FEET OF SOIL) PLACED AT THE TOP OF WALL AND CONTINUING HORIZONTALLY. VEHICLE WHEEL LOADS ARE NOT PERMITTED WITHIN 2 FEET OF THE BACK FACE OF WALL DURING CONSTRUCTION. IF ANY ADDITIONAL LOADS WHICH EXCEED THE DESIGN ARE PLACED WITHIN A HORIZONTAL DISTANCE FROM THE TOP OF THE WALL EQUAL TO ONE HALF THE WALL HEIGHT, THE CONTRACTOR SHALL REDESIGN THE WALL.

3. ALL SHEET PILING IS DESIGNED USING THE FOLLOWING SOIL PARAMETERS:

SOIL TYPE = SAND

UNIT WEIGHT OF SOIL = 115 PCF

INTERNAL FRICTION = 30 DEG

IF THE ANTICIPATED SOIL PARAMETERS OF THE FILL PROPOSED BY THE CONTRACTOR DIFFER FROM THE INFORMATION PROVIDED ABOVE, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REDESIGN AND CONSTRUCT THE WALL ACCORDINGLY.

4. SHEET PILE SECTION PROPERTIES ARE BASED ON MAXIMUM DEFLECTION CRITERIA IN ADDITION TO FLEXURAL BENDING REQUIREMENTS.

5. ALLOWABLE DEFLECTION: 1.5"

ENVIRONMENT:

WALLS: MODERATELY AGGRESSIVE FOR CONCRETE
EXTREMELY AGGRESSIVE FOR STEEL

CONCRETE:

1. ALL CONCRETE SHALL CONFORM WITH SECTION 346.
2. UNIT WEIGHT OF CONCRETE (INCLUDING REINFORCING) = 150 PCF.

CONCRETE STRENGTHS		
CONCRETE CLASS	MINIMUM 28-DAY COMPRESSIVE STRENGTH (ksi)	LOCATION OF CONCRETE IN STRUCTURE
IV	f'c = 5.5	WALL CAP

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
2. ALL DIMENSIONS PERTAINING TO LOCATIONS OF REINFORCING ARE TO THE CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSIONS IS SHOWN TO THE FACE OF CONCRETE.
3. TYPICAL REINFORCING BARS ARE DESIGNATED AS:

4-4 A1
QUANTITY MARK
SIZE

CONCRETE COVER:

1. ALL CONCRETE SURFACES SHALL HAVE COVER AS SHOWN IN THESE PLANS.
2. CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

CONCRETE DETAILS:

1. PROVIDE 3/4"CHAMFERS ON ALL EXPOSED EDGES EXCEPT AS OTHERWISE NOTED.
2. NO CONSTRUCTION JOINTS ARE SHOWN IN PLANS. ANY CONSTRUCTION JOINTS SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.

DIMENSIONS:

1. ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET AND INCHES EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL FOR SHEET PILING SHALL CONFORM TO ASTM A572 (GRADE 50) OR ASTM A328 (GRADE 39). COLD-ROLLED SECTIONS WILL BE ALLOWED AS SUBSTITUTES FOR HOT-ROLLED SECTIONS AS LONG AS THE SECTION PROPERTY REQUIREMENTS ARE MET.

MINIMUM SECTION MODULUS (IN ³ /FT)		
A328 (FY = 38.5 KSI)	HOT ROLLED	9.82
	COLD ROLLED	11.78
A572 (FY = 50 KSI)	HOT ROLLED	7.66
	COLD ROLLED	9.19
MAXIMUM BENDING MOMENT 21,400 FT-LB/FT		
MINIMUM REQUIRED MOMENT OF INERTIA 25.73 IN ⁴ /FT		

2. ADDITIONAL STEEL THICKNESS: TO ACCOUNT FOR FUTURE CORROSION, AN ADDITIONAL SACRIFICIAL STEEL THICKNESS, APPLICABLE TO THE ENTIRE SHEET PILE SECTION, SHALL BE PROVIDED. THE REQUIRED SECTION MODULES (Sx) SHOWN IN THE TABLE ABOVE MUST BE PROVIDED AFTER DEDUCTION OF THE SACRIFICIAL THICKNESS. THE REQUIRED MOMENT OF INERTIA (Ix) SHOWN SHALL BE PROVIDED AFTER THE DEDUCTION OF THE SACRIFICIAL THICKNESS.

PROVIDE 0.135 INCH ADDITIONAL STEEL THICKNESS.

3. THE EXPOSED SIDE OF SHEET PILE FACE SHALL BE COATED IN ACCORDANCE WITH SPECIFICATIONS SECTIONS 560 AND 926.

UTILITIES:

1. THE UTILITIES SHOWN IN THE WALL PLANS ARE AT APPROXIMATE LOCATIONS.
2. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE IMPACTS DUE TO CONSTRUCTION EQUIPMENT AND LOADS IN THE VICINITY OF EXISTING UTILITIES TO REMAIN.

PHASING OF WORK:

1. WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM WITH TRAFFIC CONTROL PLAN SHEETS LOCATED IN THESE PLANS.

BACKFILL PLACEMENT:

1. SOIL BACKFILL AND COMPACTION SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTION 125 FOR STRUCTURES AND SUBSECTION 548-6.5 (SUBSTITUTE PILING FOR REFERENCES TO PRECAST COMPONENTS).

SHOP DRAWINGS:

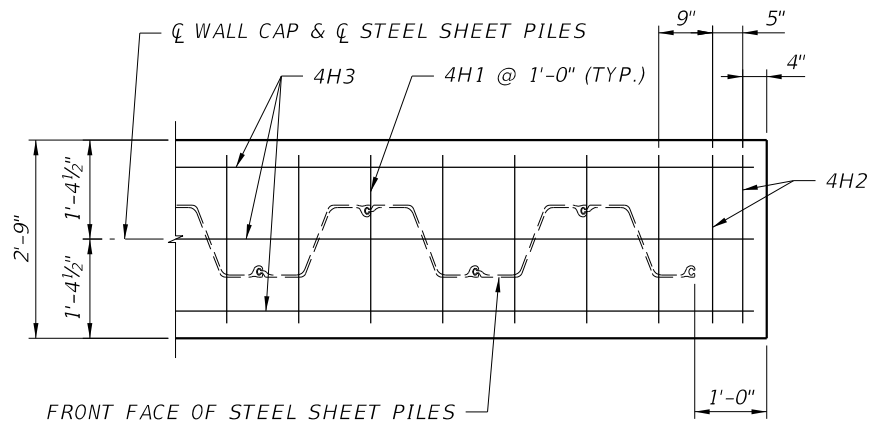
1. CONTRACTOR SHALL SUBMIT FOR REVIEW SHOP DRAWINGS SHOWING THE PROPOSED SHEET PILING SYSTEM AND DETAILS. THE PROPOSED SHEET PILING SYSTEM SHALL MEET THE MINIMUM SECTION PROPERTY REQUIREMENTS INCLUDING THE SACRIFICIAL THICKNESS. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

BID ITEM NOTES:

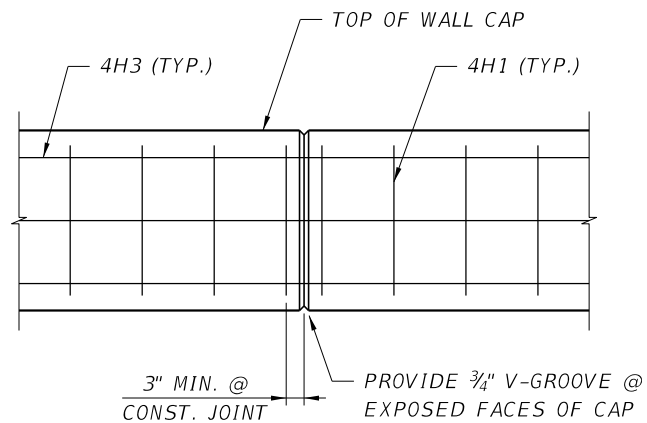
1. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS.
2. BID ITEM NO. 455-133-3 (SHEET PILING (STEEL) (F & I PERMANENT)) SHALL INCLUDE THE COST OF ANY EXCAVATION AND SHORING REQUIRED FOR THE CONSTRUCTION OF THE RETAINING WALL.

REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 UMA MAHESHWAR R. PALLAPOLU, P.E. #79524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 71
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 684	MANATEE	436551-2-52-01	

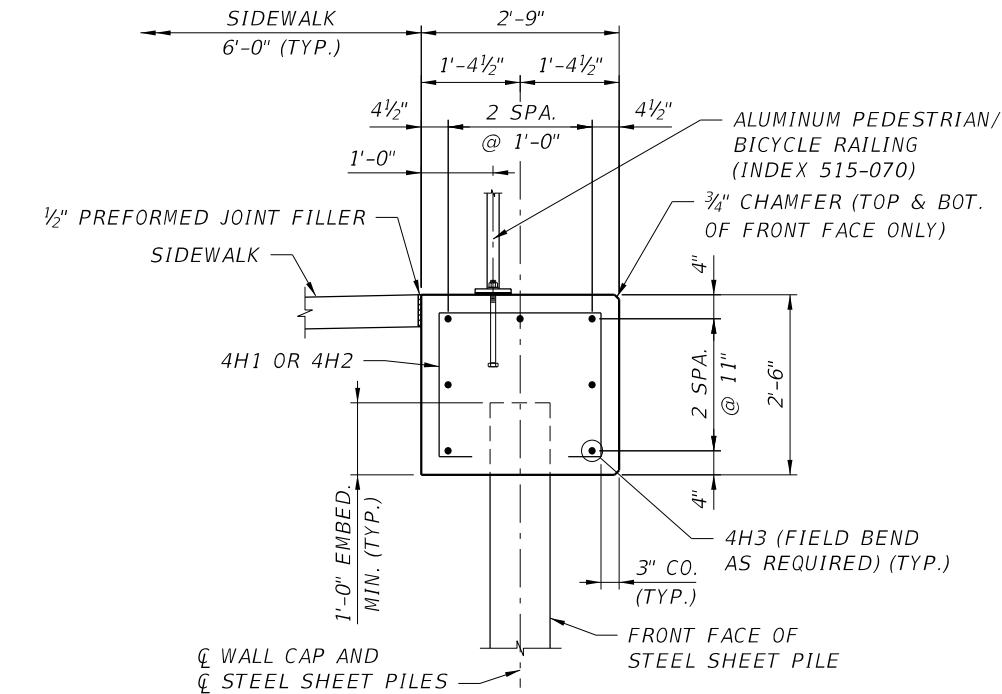
MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION - WALL SPW1																NO. REQUIRED = 1																	
4	H1	7- 0		426							2- 0			2- 3			0- 4 1/2			0- 4 1/2													
4	H2	9- 3		4							2- 0			2- 3			0- 4 1/2			0- 4 1/2													
4	H3	442- 0		7							2- 0			426- 0																		8	
LOCATION - WALL SPW2																NO. REQUIRED = 1																	
4	H1	7- 0		185							2- 0			2- 3			0- 4 1/2			0- 4 1/2													
4	H2	9- 3		4							2- 0			2- 3			0- 4 1/2			0- 4 1/2													
4	H3	190- 0		7							2- 0			184- 0																		3	



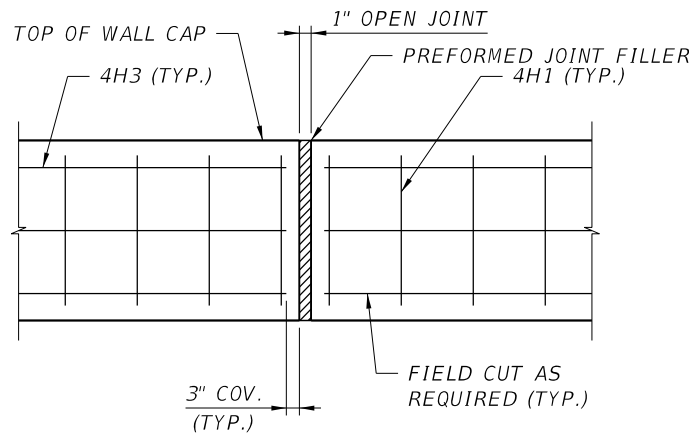
PARTIAL PLAN
(TYPICAL AT ENDS OF STEEL SHEET PILE WALL)



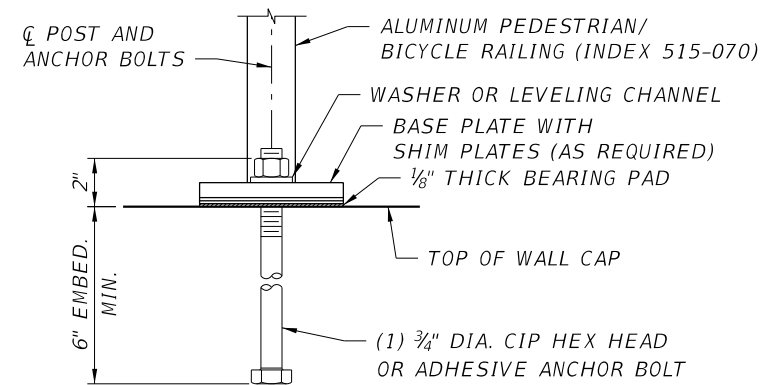
CAP JOINT DETAIL AT CONST. JOINT
(30 FT. MAX SPACING ALONG THE CENTER LINE OF CAP)



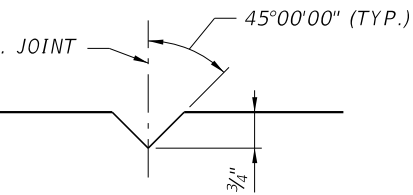
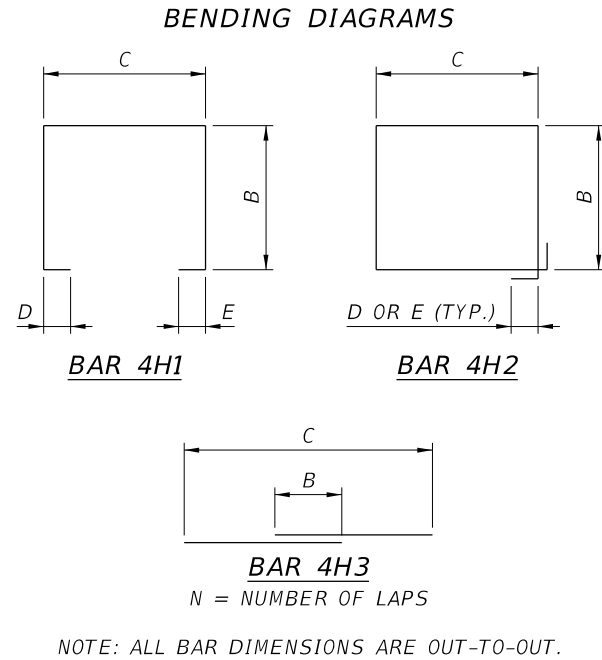
TYPICAL SECTION



CAP JOINT DETAIL AT OPEN JOINT
(90 FT. MAX SPACING ALONG THE CENTER LINE OF CAP)

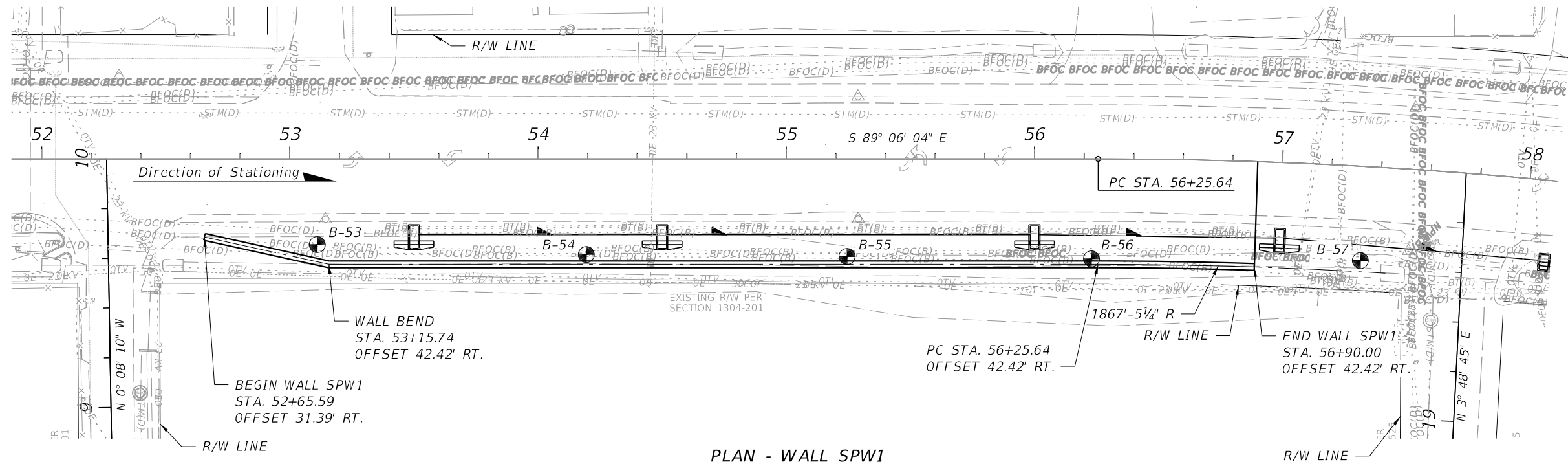


RAILING CONNECTION DETAIL
FOR ADDITIONAL INFORMATION, SEE ALUMINUM
PEDESTRIAN/BICYCLE RAILING (INDEX 515-070)

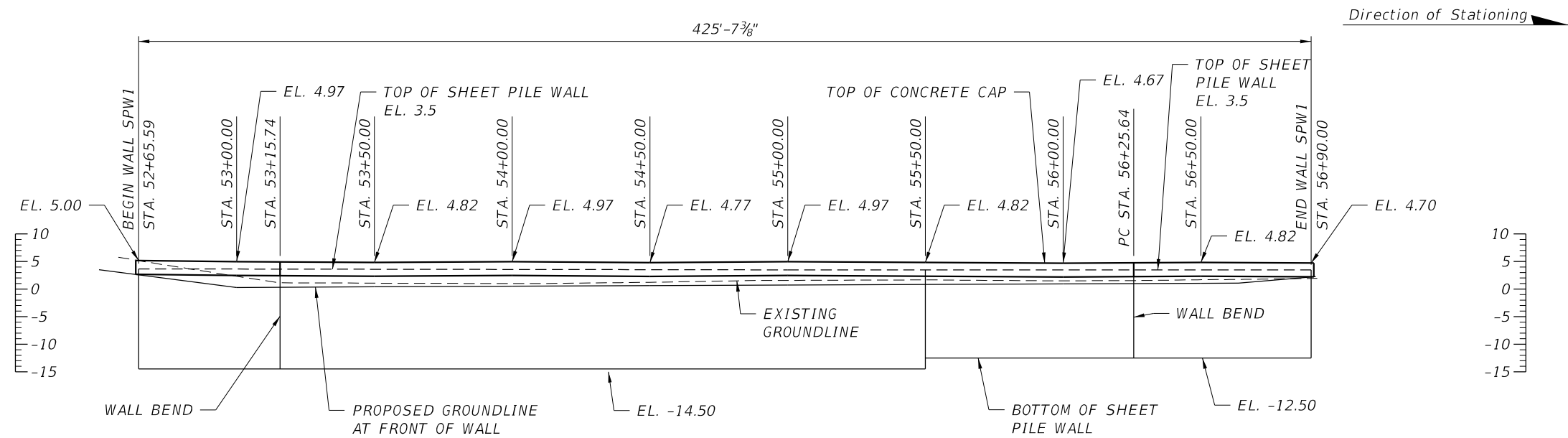


V-GROOVE DETAIL

REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 UMA MAHESHWAR R. PALLAPOLU, P.E. #79524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 72
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 684	MANATEE	436551-2-52-01	



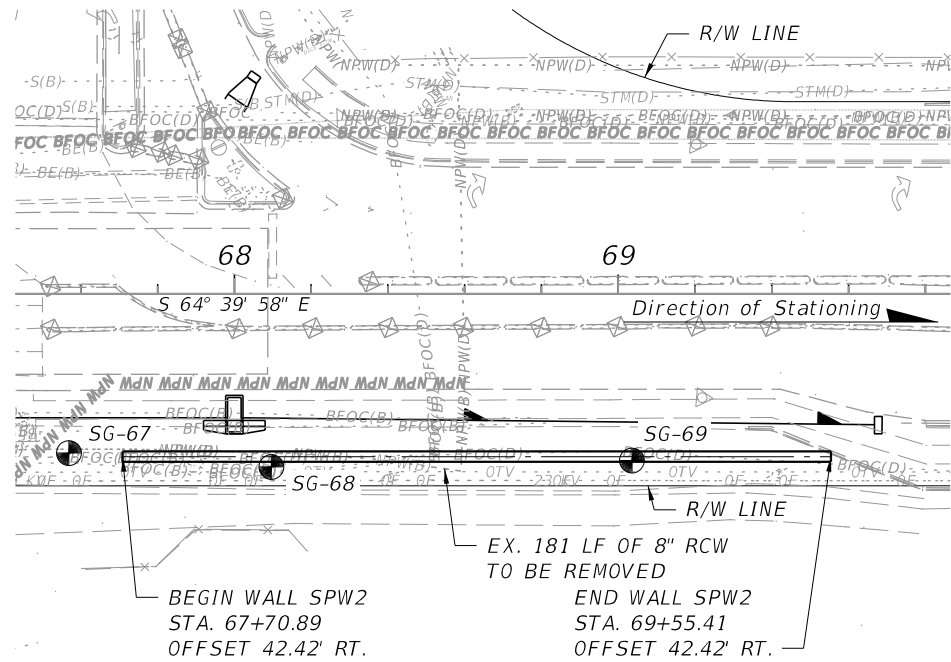
PLAN - WALL SPW1



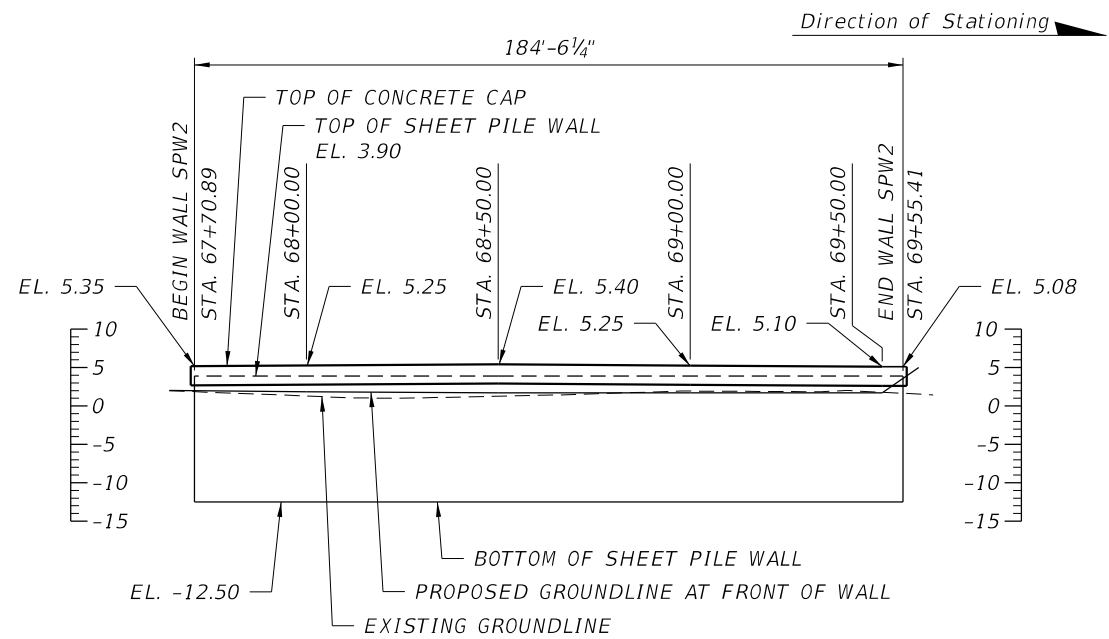
ELEVATION - WALL SPW1

- NOTES:
1. WALL DIMENSIONS AND OFFSETS ARE MEASURED ALONG THE CENTERLINE OF CONCRETE CAP.
 2. THE CONTRACTOR SHALL CONTACT POWER COMPANY TO DE-ENERGIZE OVERHEAD ELECTRIC ALONG THE WALL BEING CONSTRUCTED.

REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 UMA MAHESHWAR R. PALLAPOLU, P.E. #79524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET PILE WALLS (3)	SHEET NO. 73
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		



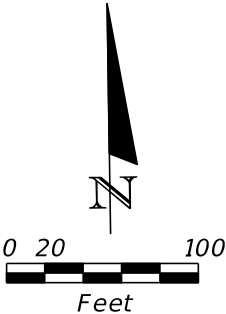
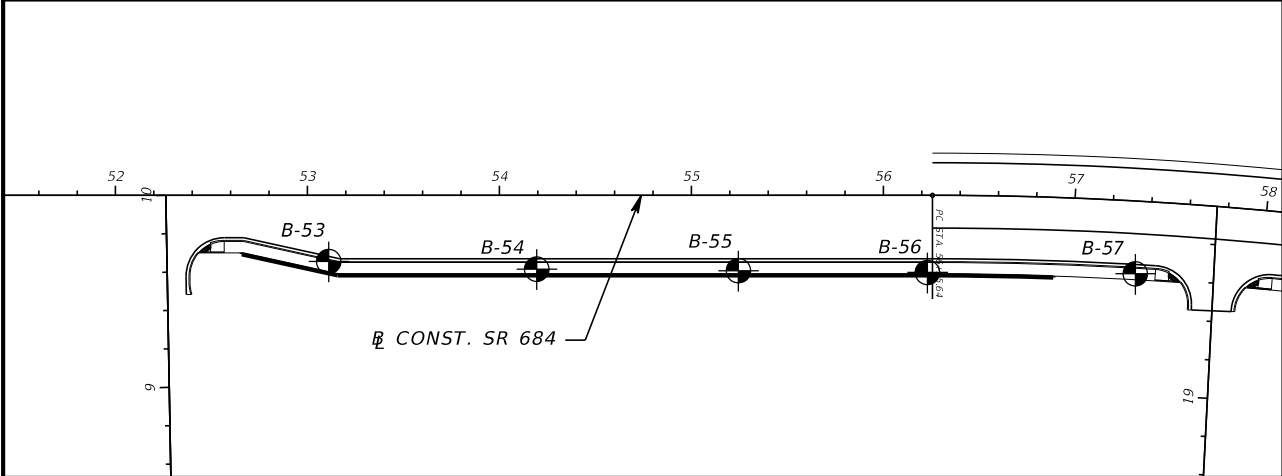
PLAN - WALL SPW2



ELEVATION - WALL SPW2

- NOTES:
- 1. WALL DIMENSIONS AND OFFSETS ARE MEASURED ALONG THE CENTERLINE OF CONCRETE CAP.
 - 2. THE CONTRACTOR SHALL CONTACT POWER COMPANY TO DE-ENERGIZE OVERHEAD ELECTRIC ALONG THE WALL BEING CONSTRUCTED.

REVISIONS				ATKINS NORTH AMERICA, INC. 4030 WEST BOY SCOUT BLVD. STE. 700 TAMPA, FLORIDA 33607 (813) 282-7275 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 UMA MAHESHWAR R. PALLAPOLU, P.E. #79524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 74
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 684	MANATEE	436551-2-52-01	



BORING LOCATION PLAN

- LIGHT GRAY TO GRAY SAND TO SAND WITH SILT OCCASIONALLY WITH SHELL (SP/SP-SM)
- GRAY SILTY SAND (SM)
- SP

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) 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
- 200

PERCENT PASSING #200 SIEVE
- NMC

NATURAL MOISTURE CONTENT (%)
- LL

LIQUID LIMIT (%)
- PI

PLASTICITY INDEX (%)
- OC

ORGANIC CONTENT (%)
- NP

NON-PLASTIC
- NAVD 88

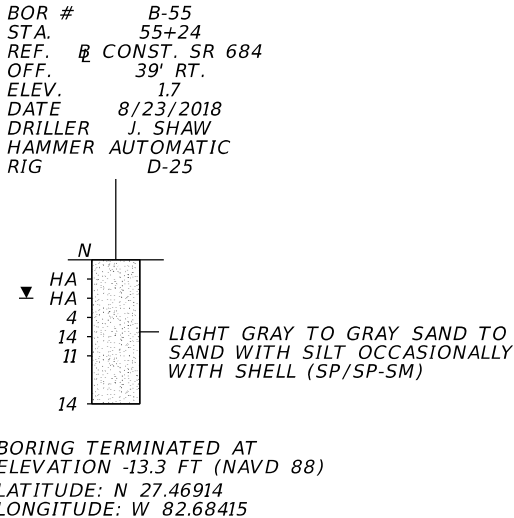
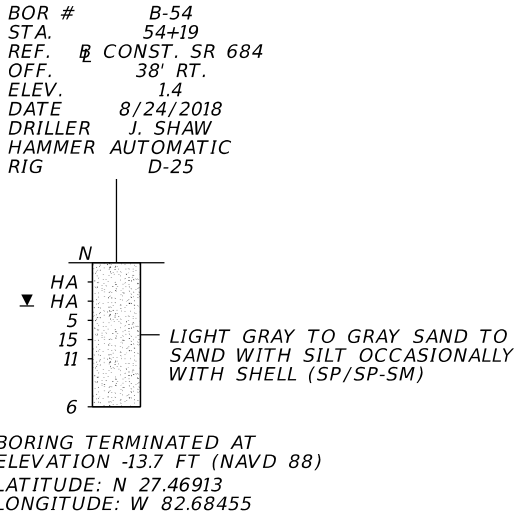
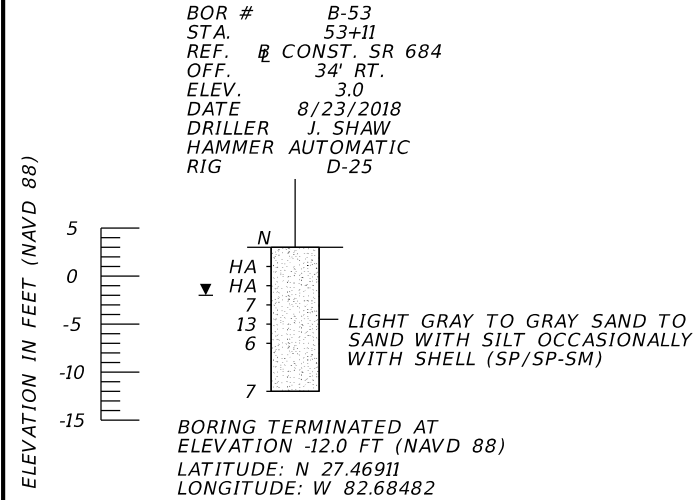
NORTH AMERICAN VERTICAL DATUM OF 1988
- ▼

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- ▽

ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- | |

CASING
- CONST. SR 684

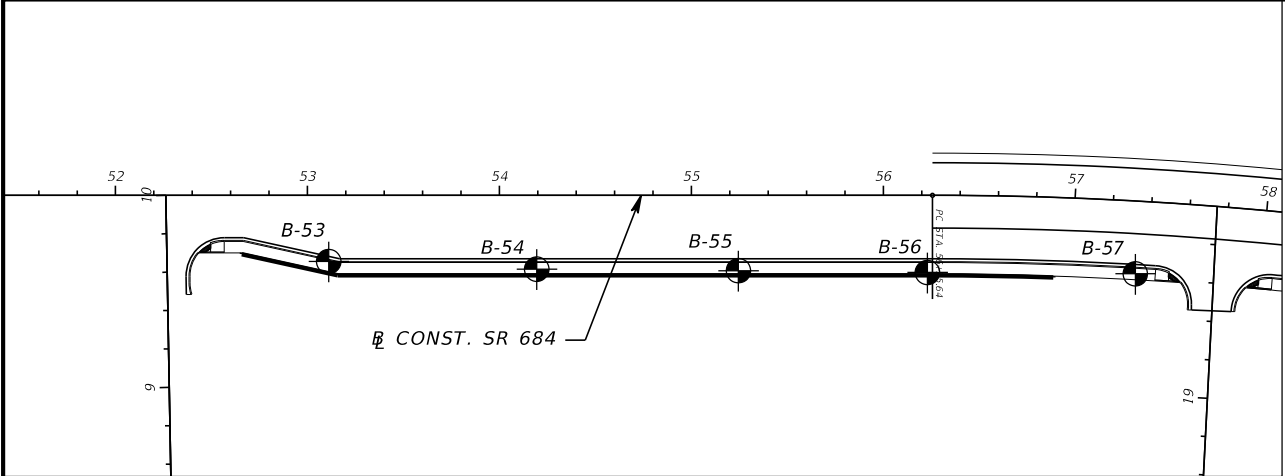
BASELINE CONSTRUCTION OF SR 684



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

WALL

REVISIONS						KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION NO. 6486	DRAWN BY: BJS			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (1)		REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: DH								PROJECT NAME:	
							DESIGNED BY: BJS			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			SHEET NO.	
							CHECKED BY: KHS			SR 684	MANATEE	436551-2-52-01			75	



BORING LOCATION PLAN

SP

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)
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

-200

PERCENT PASSING #200 SIEVE

NMC

NATURAL MOISTURE CONTENT (%)

LL

LIQUID LIMIT (%)

PI

PLASTICITY INDEX (%)

OC

ORGANIC CONTENT (%)

NP

NON-PLASTIC

NAVD 88

NORTH AMERICAN VERTICAL DATUM OF 1988

GROUNDWATER LEVEL ENCOUNTERED DURING
FIELD EXPLORATIONS

ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

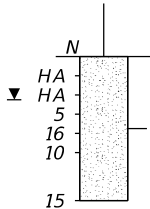
CASING

CONST. SR 684

BASELINE CONSTRUCTION OF SR 684

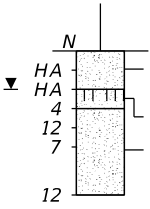
ELEVATION IN FEET (NAVD 88)

BOR # B-56
STA. 56+23
REF. CONST. SR 684
OFF. 40' RT.
ELEV. 1.3
DATE 8/24/2018
DRILLER J. SHAW
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT
ELEVATION -13.7 FT (NAVD 88)
LATITUDE: N 27.46916
LONGITUDE: W 82.68386

BOR # B-57
STA. 57+33
REF. CONST. SR 684
OFF. 38' RT.
ELEV. 1.9
DATE 8/23/2018
DRILLER J. SHAW
HAMMER AUTOMATIC
RIG D-25



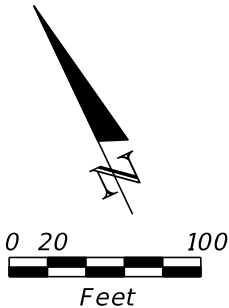
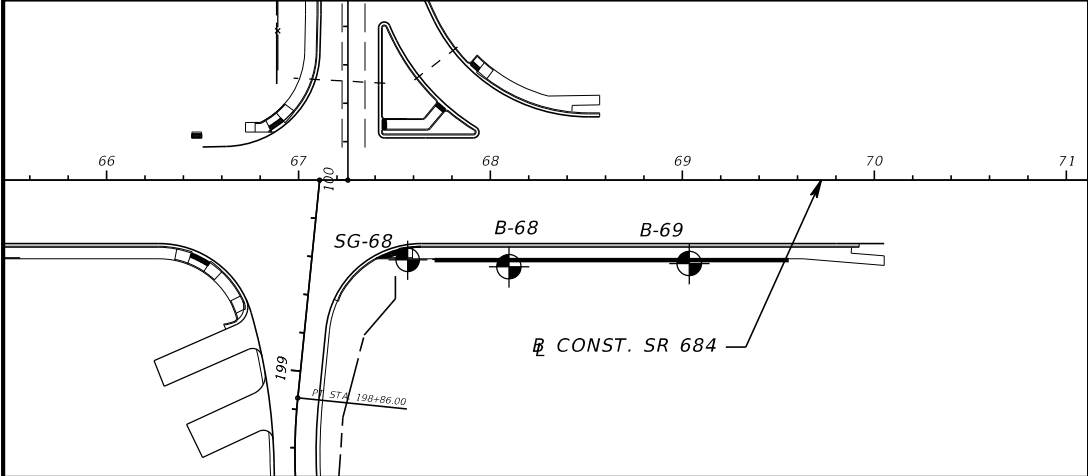
BORING TERMINATED AT
ELEVATION -13.1 FT (NAVD 88)
LATITUDE: N 27.46914
LONGITUDE: W 82.68370

ELEVATION IN FEET (NAVD 88)

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

WALL

REVISIONS						KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION NO. 6486	DRAWN BY: BJS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: DH					
							DESIGNED BY: BJS	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
							CHECKED BY: KHS	SR 684	MANATEE	436551-2-52-01		



BORING LOCATION PLAN

- LIGHT GRAY TO GRAY SAND TO SAND WITH SILT OCCASIONALLY WITH SHELL (SP/SP-SM)
- GRAY SILTY SAND (SM)
- SP

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) 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
- 200

PERCENT PASSING #200 SIEVE
- NMC

NATURAL MOISTURE CONTENT (%)
- LL

LIQUID LIMIT (%)
- PI

PLASTICITY INDEX (%)
- OC

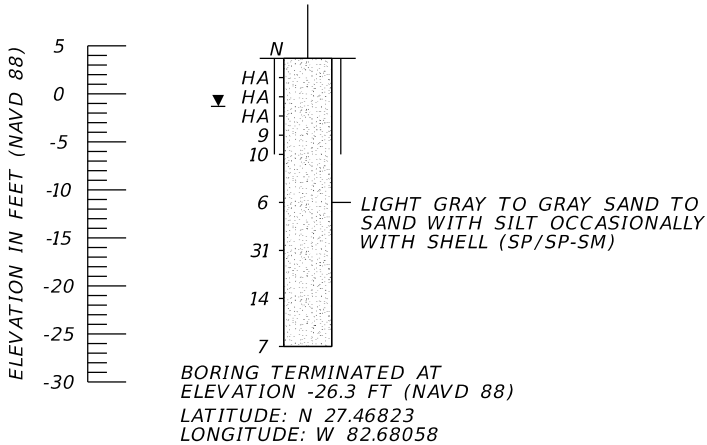
ORGANIC CONTENT (%)
- NP

NON-PLASTIC
- NAVD 88

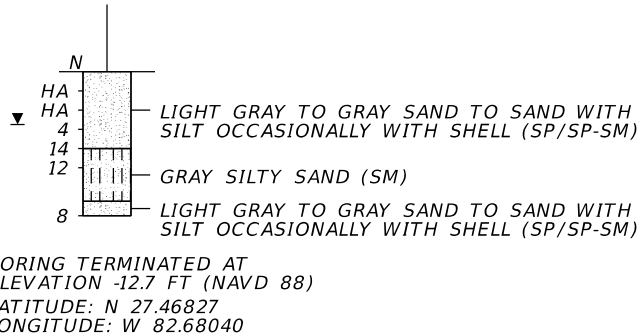
NORTH AMERICAN VERTICAL DATUM OF 1988
- GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- CASING
- CONST. SR 684

BASELINE CONSTRUCTION OF SR 684

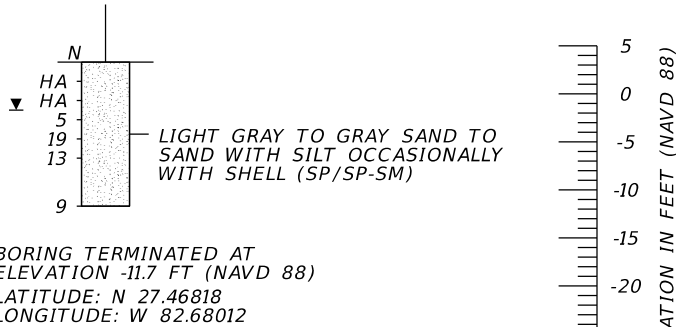
BOR # SG-68
STA. 67+57
REF. CONST. SR 684
OFF. 41' RT.
ELEV. 3.7
DATE 8/24/2018
DRILLER J. SHAW
HAMMER AUTOMATIC
RIG D-25



BOR # B-68
STA. 68+10
REF. CONST. SR 684
OFF. 45' RT.
ELEV. 2.3
DATE 8/24/2018
DRILLER J. SHAW
HAMMER AUTOMATIC
RIG D-25



BOR # B-69
STA. 69+04
REF. CONST. SR 684
OFF. 43' LT.
ELEV. 3.3
DATE 8/24/2018
DRILLER J. SHAW
HAMMER AUTOMATIC
RIG D-25



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

WALL

REVISIONS						KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION NO. 6486	DRAWN BY: BJS		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (3)		REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: DH							PROJECT NAME:	
							DESIGNED BY: BJS		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			SHEET NO.	
							CHECKED BY: KHS		SR 684	MANATEE	436551-2-52-01			77	

PAY ITEM NOTES

1. 522 - 2: INCLUDES PAYMENT FOR FURNISHING AND INSTALLING THE WELDED WIRE REINFORCEMENT AT THE PROPOSED BUS STOP.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
0102 1	MAINTENANCE OF TRAFFIC	LS/DA	142	-	-	58	-	-	1		200 TOTAL CONSTRUCTION DAYS	
0102 2 1	SPECIAL DETOUR	LS	-	-	-	-	-	-	1		276 SY OF TEMP. PAVEMENT	
0102 14	TRAFFIC CONTROL OFFICER	HR	-	-	-	-	16	16	16		4 HR PER LANE	
0102 60	WORK ZONE SIGN	ED	142	64	9088	58	28	1624	10712			
0102 61	BUSINESS SIGN	EA	-	5	5	-	-	-	5			
0102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	-	528	528	-	-	-	528			
0102 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD	ED	142	169	23998	58	165	9570	33568			
0102 74 2	CHANNELIZING DEVICE - TYPE III, 6'	ED	142	9	1278	-	-	-	1278			
0102 76	ARROW BOARD/ADVANCE WARNING ARROW PANEL	ED	142	1	142	58	1	58	200			
0102 78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA	-	189	189	-	264	264	453			
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	156	7	1092	58	2	116	1208		14 DAYS PRIOR TO CONSTRUCTION	
0710 11 101	PAINTED PAVT MARKINGS, STD, WHITE, SOLID, 6"	GM	-	1.1808	1.181	-	1.4078	1.408	2.589			
0710 11 123	PAINTED PAVT MARKINGS, STD, WHITE, SOLID, 12"	LF	-	64.0	64	-	-	-	64			
0710 11 125	PAINTED PAVT MARKINGS, STD, WHITE, SOLID, 24"	LF	-	42.1	42	-	10.6	11	53			
0710 11 131	PAINTED PAVT MARKINGS, STD, WHITE, 10-30/3-9 SKIP, 6"	GM	-	0.3055	0.306	-	0.2901	0.290	0.596			
0710 11 201	PAINTED PAVT MARKINGS, STD, YELLOW, SOLID, 6"	GM	-	0.8295	0.830	-	0.7197	0.720	1.549			

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELING DEVICES						
CONST. PHASE	LOCATION STA. TO STA.	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			0102 74 7			
			LF			
			P	F		
1	66+59.58 to 67+79.13	LT	126.7			
1	66+59.58 to 68+75.11	LT	218.0			
1	67+79.13 to 70+56.95	RT	289.7			
1	67+89.13 to 70+71.52	RT	290.1			
1	67+89.13 to 68+83.50	LT	105.5			
SUB-TOTAL :			1030.0			
TOTAL :			1030			

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		SQ-1

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

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION															
PHASE	DURATION	0102104						0102107 1						DESIGN NOTES	CONSTRUCTION REMARKS
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY							
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW				
	DAYS	#	P	F	#	P	F	#	P	F	#	P	F		
1	142	1	142					1	142						
2	58	1	58					1	58						
SUB-TOTAL:		200							200						
		TOTAL:	200						TOTAL:	200					

SUMMARY OF TEMPORARY DRIVEWAYS									
LOCATION	SIDE	AREA ID	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE					DESIGN NOTES	CONSTRUCTION REMARKS
STA. @ C OF DRIVEWAY			L	W	THK	0102 3			
			FT	FT	IN	CY			
						P	F		
60+00.54	RT	27548			6.00	11.70		SR 684	
61+51.74	RT	27657			6.00	9.97		SR 684	
62+28.13	RT	27669			6.00	9.71		SR 684	
63+15.96	RT	27681			6.00	11.97		SR 684	
65+08.83	RT	27692			6.00	11.35		SR 684	
SUB - TOTAL :						54.70			
TOTAL :						54.7			

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		
									SQ-2

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

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES										
LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 10 3		0104 15		0104 18			
			LF		EA		EA			
			P	F	P	F	P	F		
52+36.87 to 57+64.67	RT		531.4							
57+91.50 to 59+88.10	RT		192.5							
60+13.15 to 61+37.73	RT		122.2							
61+66.65 to 62+12.66	RT		48.4							
62+42.43 to 62+97.80	RT		55.0							
63+35.17 to 64+89.42	RT		153.4							
65+26.55 to 66+24.82	RT		126.5							
67+24.37 to 70+08.34	RT		289.2							
100+30.00 to 104+54.69	LT		427.5							
100+44.19 to 103+33.21	RT		345.9							
197+32.34 to 197+65.83	LT		49.4							
197+33.00 to 197+41.01	RT		13.1							
197+49.52 to 199+36.28	RT		182.8							
197+83.24 to 198+55.28	LT		88.8							
198+69.85 to 198+85.30	LT		27.1							
PROJECT LIMITS					2					
52+09.27 to 52+11.95	RT						1			
69+91.19 to 70+07.12	LT						1			
69+92.05 to 70+07.92	RT						1			
75+90.90 to 76+06.76	RT						1			
75+92.23 to 76+08.18	LT						1			
104+49.84 to 104+53.95	RT						1			
196+74.66 to 196+76.57	RT						1			
196+75.88 to 196+77.94	LT						1			
197+05.55 to 197+07.60	LT						1			
SUB-TOTAL:			2653.2		2		9			
TOTAL:			2653		2		9			

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		SQ-3

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

SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTION REMARKS
					0107 1					0107 2						
	AREA ID				CYCLES	AREA		AREA ID	CYCLES	AREA						
						AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)					
	STA. TO STA.							P	F				P	F		
1	52+36.93 to 57+64.03	RT	142	30	99033	5	0.329	1.645								
1	57+85.52 to 66+12.05	RT	142	30	94492	5	0.504	2.520								
1	66+57.51 to 70+05.20	RT	142	30	94522	5	0.187	0.935								
1	100+21.34 to 104+53.03	LT/RT	142	30	94567	5	0.286	1.430								
1	100+32.96 to 104+53.29	RT	142	30	94550	5	0.181	0.905								
1	197+33.80 to 199+40.35	LT	142	30	94507	5	0.097	0.485								
1	197+33.80 to 199+45.09	LT/RT	142	30	94514	5	0.106	0.530								
2	50+00.00 to 50+01.53	LT	58	30	111060	2	0.185	0.370								
2	50+00.00 to 50+22.95	RT	58	30	111056	2	0.011	0.022								
2	50+41.41 to 52+18.03	RT	58	30	111048	2	0.106	0.212								
2	53+21.81 to 66+59.58	LT	58	30	94835	2	0.861	1.722								
2	68+56.85 to 73+00.00	LT	58	30	94827	2	0.188	0.376								
2	70+05.20 to 73+00.00	RT	58	30	94818	2	0.125	0.250								
1	52+36.93 to 57+64.03	RT	142	30						96810	5	0.236	1.180			
1	52+49.79 to 57+44.61	RT	142	30						96824	5	0.037	0.185			
1	57+89.95 to 59+87.95	RT	142	30						96780	5	0.085	0.425			
1	58+02.44 to 58+84.08	RT	142	30						96773	5	0.006	0.030			
1	58+85.58 to 59+20.42	LT/RT	142	30						96759	5	0.005	0.025			
1	59+25.75 to 59+60.61	LT/RT	142	30						96794	5	0.005	0.025			
1	59+61.67 to 59+85.68	RT	142	30						96801	5	0.002	0.010			
1	60+13.19 to 61+37.80	RT	142	30						96716	5	0.055	0.275			
1	60+20.01 to 61+35.41	RT	142	30						96725	5	0.008	0.040			
1	61+65.55 to 62+13.60	RT	142	30						96691	5	0.019	0.095			
1	61+68.63 to 62+04.62	RT	142	30						96709	5	0.002	0.010			
1	62+42.32 to 62+97.82	RT	142	30						96645	5	0.023	0.115			
1	62+52.52 to 62+90.51	RT	142	30						96652	5	0.002	0.010			
1	63+34.62 to 64+91.06	RT	142	30						96616	5	0.067	0.335			
1	63+39.79 to 64+90.68	RT	142	30						96635	5	0.011	0.055			
1	65+26.52 to 66+12.05	RT	142	30						96606	5	0.032	0.160			
1	65+31.01 to 66+00.97	RT	142	30						96596	5	0.005	0.025			
1	66+57.51 to 70+05.20	RT	142	30						96407	5	0.128	0.640			
1	67+02.45 to 67+42.71	RT	142	30						96435	5	0.002	0.010			
1	67+47.63 to 70+05.20	RT	142	30						96396	5	0.019	0.095			
1	100+21.34 to 100+25.09	LT	142	30						96546	5	0.002	0.010			
1	100+21.43 to 100+25.15	LT	142	30						96540	5	0.001	0.005			
1	100+29.95 to 100+63.89	LT/RT	142	30						96531	5	0.008	0.040			
1	100+29.99 to 104+53.00	LT/RT	142	30						96554	5	0.198	0.990			
1	100+35.07 to 100+48.16	RT	142	30						96482	5	0.003	0.015			
1	100+38.32 to 104+08.23	LT/RT	142	30						96521	5	0.072	0.360			
1	100+44.20 to 104+53.29	RT	142	30						96493	5	0.151	0.755			
1	197+33.80 to 197+41.41	RT	142	30						96428	5	0.003	0.015			
1	197+33.80 to 197+68.55	LT	142	30						96908	5	0.013	0.065			
1	197+49.52 to 199+45.09	LT/RT	142	30						96414	5	0.098	0.490			
1	197+82.88 to 198+57.62	LT	142	30						96898	5	0.033	0.165			
1	198+66.42 to 198+87.22	LT	142	30						96890	5	0.009	0.045			
1	198+93.56 to 199+40.35	LT	142	30						96882	5	0.017	0.085			
SUB-TOTAL :								11.402		SUB-TOTAL :				6.785		
TOTAL :								11.40		TOTAL :				8.75		

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		
									SQ-4

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

SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTION REMARKS
					0107 1					0107 2						
					AREA ID	CYCLES	AREA		AREA ID	CYCLES	AREA					
	AC/ CYCLE						TOTAL (AC)	AC/ CYCLE			TOTAL (AC)					
	STA. TO STA.						P	F			P	F				
2	50+00.00 to 51+52.49	LT	58	30						111437	2	0.069	0.138			
2	50+00.00 to 51+41.84	LT	58	30						111394	2	0.009	0.018			
2	50+00.00 to 50+22.95	RT	58	30						111378	2	0.008	0.016			
2	50+41.41 to 52+18.03	RT	58	30						111328	2	0.076	0.152			
2	51+76.22 to 53+01.53	LT	58	30						111430	2	0.055	0.110			
2	51+90.24 to 52+87.40	LT	58	30						111422	2	0.006	0.012			
2	54+40.35 to 56+16.57	LT	58	30						97469	2	0.078	0.156			
2	54+47.62 to 56+00.52	LT	58	30						97477	2	0.010	0.020			
2	56+47.26 to 58+03.64	LT	58	30						97489	2	0.070	0.140			
2	56+66.63 to 57+90.74	LT	58	30						97495	2	0.010	0.020			
2	58+17.15 to 58+50.96	LT	58	30						97387	2	0.012	0.024			
2	58+66.40 to 61+38.02	LT	58	30						97361	2	0.122	0.244			
2	59+63.09 to 61+32.01	LT	58	30						97353	2	0.013	0.026			
2	61+70.35 to 65+81.32	LT	58	30						97295	2	0.189	0.378			
2	61+83.84 to 65+78.07	LT	58	30						97280	2	0.029	0.058			
2	65+96.00 to 66+59.58	LT	58	30						97204	2	0.029	0.058			
2	66+01.53 to 66+59.50	LT	58	30						97211	2	0.004	0.008			
2	68+56.85 to 73+00.00	LT	58	30						97073	2	0.076	0.152			
2	68+56.85 to 73+00.00	LT	58	30						97087	2	0.042	0.084			
2	70+05.20 to 72+08.66	RT	58	30						97004	2	0.019	0.038			
2	70+05.20 to 72+20.26	RT	58	30						97011	2	0.036	0.072			
2	72+30.99 to 73+00.00	RT	58	30						97060	2	0.012	0.024			
2	72+37.04 to 73+00.00	RT	58	30						97067	2	0.006	0.012			
SUB-TOTAL :										SUB-TOTAL :			1.96			

SUMMARY OF MONITOR EXISTING STRUCTURES								
SITE NO.	LOCATION	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
	ADDRESS AND/OR STA.		0108 1		0108 2			
			LS		LS			
			P	F	P	F		
	12112 44th AVE W		X		X		USPS	
	12108 CORTEZ RD W		X		X		Cortez Café Inc.	
	12104 CORTEZ RD W		X		X		Cortez Barber Shop	
	12106 CORTEZ RD W		X		X		Sally's Salon	
	12012 CORTEZ RD W		X		X		O'Shucks	
	12044 CORTEZ RD W		X		X		Wood Dock & Seawall	
	11904 CORTEZ RD W		X		X		Tyler's Homemade Ice Cream & The Beach Shop	
	4415 119th ST W		X		X		Florida Maritime Museum	
TOTAL:			1		1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS. THAT ARE REQUIRED TO BE MONITORED.

THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SQ-5
					SR 684	MANATEE	436551-2-52-01		

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

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.						P	F	P		
0110 1 1	CLEARING AND GRUBBING	52+36.86 to 52+87.40	LT	82815	LS	0.003			1		2.271 TOTAL ACRES	
		54+47.61 to 58+83.30	LT	82783		0.033						
		58+85.58 to 59+20.42	LT/RT	69974		0.005						
		59+25.75 to 59+60.61	LT/RT	69981		0.005						
		59+63.09 to 66+82.43	LT	82801		0.054						
		61+26.06 to 61+26.06	RT	115686		1.105						
		100+29.95 to 100+63.89	LT/RT	70001		0.008					119th ST. NORTH	
		100+30.00 to 104+52.93	LT/RT	115646		0.258					119th ST. NORTH	
		100+35.07 to 100+48.16	RT	70263		0.003					119th ST. NORTH	
		100+38.32 to 103+20.88	LT/RT	115370		0.053					119th ST. NORTH	
		100+44.20 to 103+32.42	RT	115322		0.041					119th ST. NORTH	
		101+89.67 to 101+89.67	LT	110354		0.365					119th ST. NORTH	
		197+44.00 to 199+53.33	LT/RT	115386		0.338					119th ST. SOUTH	
0110 4 10	REMOVAL OF EXISTING CONCRETE	52+45.86 to 57+54.67	RT	47267	SY		273.1		1611		SIDEWALK	
		57+95.32 to 66+06.15	RT	47496			464.1				SIDEWALK, CURB & GUTTER	
		58+84.08 to 59+61.68	LT/RT	47707			40.2				SIDEWALK, CURB & GUTTER	
		66+78.07 to 70+05.20	RT	51253			179.7				SIDEWALK	
		69+79.70 to 70+05.20	RT	51264			5.6				CURB & GUTTER	
		100+21.99 to 100+47.98	RT	47546			44.3				MEDIAN	
		100+21.43 to 104+53.02	LT/RT	47604			366.5				SIDEWALK, CURB & GUTTER	
		100+32.96 to 103+32.38	RT	110440			105.0				SIDEWALK, CURB & GUTTER	
		100+36.89 to 103+32.38	LT/RT	110480			132.2				CURB & GUTTER	

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120 1	REGULAR EXCAVATION	1286.0		SR 684	
		165.0		119th ST. SOUTH	
		330.2		119th ST. NORTH	
	TOTAL	1781			
0120 6	EMBANKMENT	1080.0		SR 684	
		172.0		119th ST. SOUTH	
		183.4		119th ST. NORTH	
	TOTAL	1435			

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		SQ-6

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

SUMMARY OF TURNOUTS						
LOCATION	SIDE	AREA ID	0286 1		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			SY			
			P	F		
59+81.61 to 60+19.47	RT	115924	55.9			
61+31.48 to 61+72.01	RT	82657	44.7			
62+07.42 to 62+48.84	RT	82664	42.8			
62+91.55 to 63+40.07	RT	82670	54.0			
64+85.09 to 65+32.58	RT	82677	50.4			
SUB-TOTAL :			247.8			
TOTAL :			248			

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
0160 4	TYPE B STABILIZATION	52+34.53 to 70+05.20		RT	124740	SY	3830.8		6656			
		59+22.74 to 59+22.74		RT	36990		41.7					
		102+17.91 to 102+17.91		RT	120944		1978.6					
		197+41.35 to 199+37.32		LT/RT	124708		804.7					
285710	OPTIONAL BASE, BASE GROUP 10	101+37.26 to 101+37.26		LT	120997	SY	1630.1		5459			
		197+41.28 to 199+73.80		LT/RT	83832		785.5					
		52+34.53 to 70+05.20		RT	99488		3043.8					
0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	62+11.38 to 62+11.38		RT	120239	SY	10706.6		11101			
		197+30.00 to 197+44.00		LT/RT	124870		30.7					
		103+42.38 to 104+53.10		LT/RT	109847		363.6					
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	52+34.53 to 70+05.20		RT	83867	TN	585.89		1073.3			
		59+81.61 to 60+19.47		RT	115916		3.07				TURNOUT ASPHALT	
		61+31.48 to 61+72.01		RT	79554		2.46				TURNOUT ASPHALT	
		62+07.42 to 62+48.84		RT	79573		2.35				TURNOUT ASPHALT	
		62+91.55 to 63+40.07		RT	79561		2.97				TURNOUT ASPHALT	
		64+85.09 to 65+32.58		RT	79568		2.77				TURNOUT ASPHALT	
		101+37.26 to 101+37.26		LT	121054		318.63					
		197+41.35 to 199+73.80		LT/RT	83851		155.19					
0337 7 81	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC	52+34.53 to 70+05.20		RT	83894	TN	249.49		1368.5			
	B,FC-12.5, PG 76-22	61+69.06 to 61+69.06		RT	120732		883.33					
		101+37.26 to 101+37.26		LT	121099		134.25					
		103+32.38 to 104+53.10		LT/RT	109861		32.30					
		197+30.00 to 197+55.00		LT/RT	125145		4.70					
		197+55.00 to 199+73.80		LT/RT	83917		64.39					

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		SQ-7

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

SUMMARY OF WALLS											
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			STA. TO STA.			P	F	P	F		
	0400 4 8	CONC CLASS IV, BULKHEAD	52+65.76 to 56+90.00	RT	CY	108.4		155			
			67+70.89 to 69+55.41	RT		47.0					
	0415 1 8	REINFORCING STEEL- BULKHEAD	52+65.76 to 56+90.00	RT	LB	4159.0		5939.0			
			67+70.89 to 69+55.41	RT		1780.0					
	455133 3	SHEET PILING STEEL, F&I PERMANENT	52+65.76 to 56+90.00	RT	SF	7378.0		10404			
			67+70.89 to 69+55.41	RT		3026.0					

SUMMARY OF RAILING					
LOCATION	SIDE	PIPE HANDRAIL - GUIDERAIL (ALUMINUM)		DESIGN NOTES	CONSTRUCTION REMARKS
		0515 1 2			
		LF			
		P	F		
52+65.76 to 56+90.00	RT	424.0			
58+95.00 to 59+05.00	RT	9.8		S-6A	
59+37.49 to 59+49.49	RT	11.7		AT BUS STOP	
60+44.98 to 60+54.98	RT	9.8		S-7A	
61+79.00 to 61+89.00	RT	9.8		S-7B	
62+65.00 to 62+75.00	RT	9.8		S-8A	
63+56.00 to 63+66.00	RT	9.8		S-9A	
65+45.00 to 65+55.00	RT	10.0		S-10A	
67+70.89 to 69+55.41	RT	184.5			
68+00.35 to 68+08.58	LT	10.0		S-21A	
66+60.69 to 66+65.90	RT	10.0		S-20	
101+07.89 to 101+17.89	LT	10.0		S-23	
101+94.95 to 102+05.65	LT	10.0		S-25	
SUB-TOTAL :		719.2			
TOTAL :		719			

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DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SQ-8
					SR 684	MANATEE	436551-2-52-01		

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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.			GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
						TYPE	LENGTH	P	F				
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	52+38.27 to 57+62.89	RT	LF	555.9	J-6 (4)	64.0	491.9		2982		SR 684	
		57+87.43 to 59+86.48	RT		216.1	J-5 & J-6	26.5	189.6				SR 684	
		58+85.20 to 59+60.38	LT/RT		158.9			158.9				SR 684	
		60+14.73 to 61+36.13	RT		137.2	J-6	16.0	121.2				SR 684	
		61+67.36 to 62+12.07	RT		60.2			60.2				SR 684	
		62+44.09 to 62+96.22	RT		66.9	J-6	16.0	50.9				SR 684	
		63+35.42 to 64+89.58	RT		167.7	J-6	16.0	151.7				SR 684	
		65+28.09 to 66+71.28	RT		181.2	J-5	10.5	170.7				SR 684	
		67+20.39 to 69+92.03	RT		283.3	J-6 & FLUME	22.0	261.3				SR 684	
		100+23.50 to 100+79.91	RT		182.6			182.6				119TH ST NORTH	
		100+25.00 to 104+43.02	LT		420.6	FLUME (2)	12.0	408.6				119TH ST NORTH	
		100+34.48 to 103+32.38	RT		366.9	FLUME (3)	18.0	348.9				119TH ST NORTH	
		101+42.66 to 103+32.38	LT/RT		195.9			195.9				119TH ST NORTH	
		101+42.66 to 103+32.38	LT		189.1			189.1				119TH ST NORTH	
0520 3	VALLEY GUTTER - CONCRETE	59+72.40 to 60+28.67	RT	LF	55.3			55.3		303			
		61+22.28 to 61+81.21	RT		57.9			57.9					
		61+98.22 to 62+58.04	RT		58.8			58.8					
		62+82.34 to 63+49.27	RT		65.7			65.7					
		64+76.09 to 65+41.58	RT		65.5			65.5					

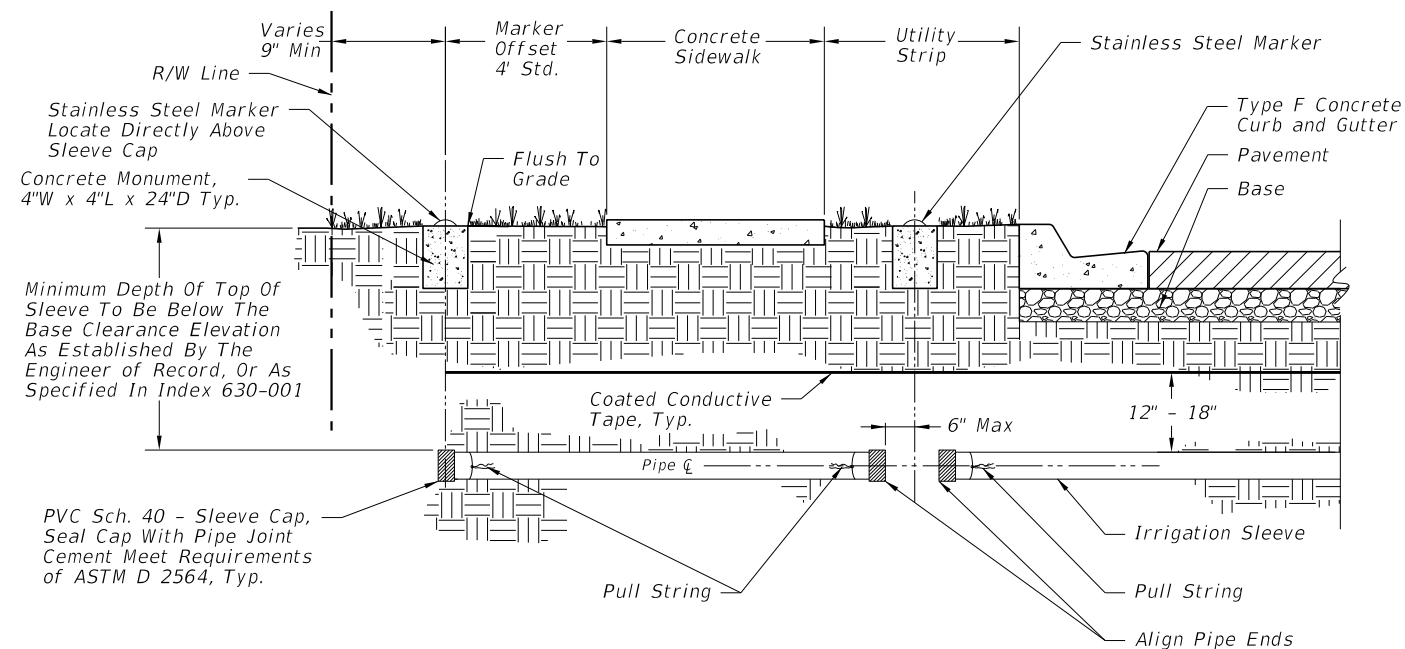
REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SQ-9
					SR 684	MANATEE	436551-2-52-01		

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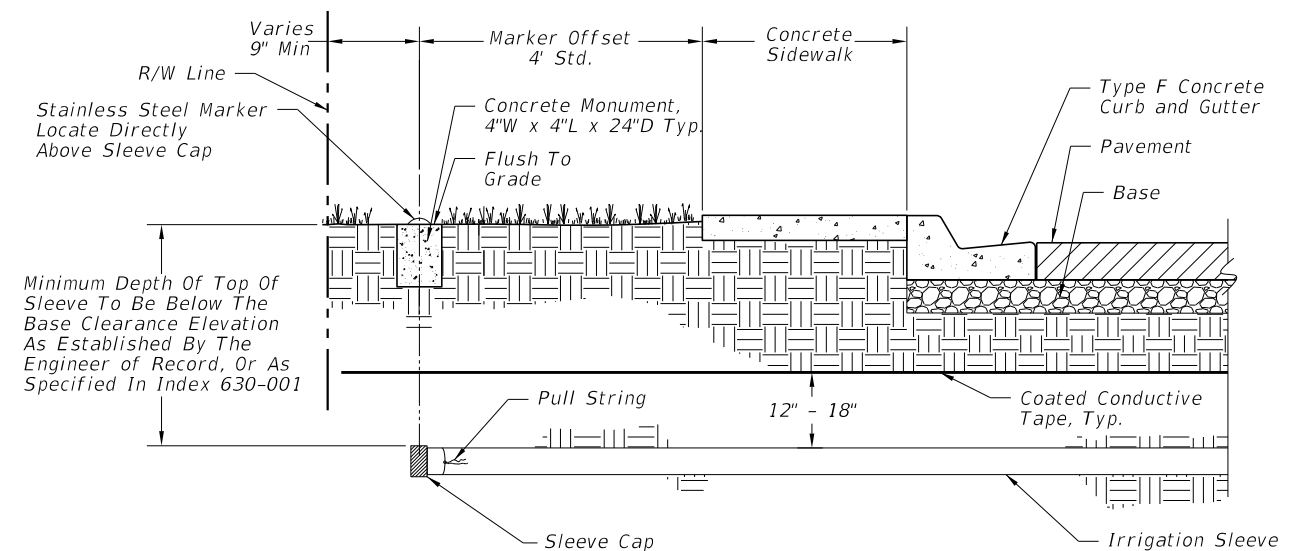
SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION	SIDE	AREA ID	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
			0522 1		0522 2		0527 2			
SY			SY		SF					
STA. TO STA.			P	F	P	F	P	F		
52+56.57 to 57+44.11	RT	20144	324.2							
58+06.20 to 59+13.40	RT	20159	70.0							
60+29.60 to 61+21.35	RT	20174	59.9							
61+82.11 to 61+97.31	RT	20185	9.9							
62+58.97 to 62+81.41	RT	20196	14.7							
63+50.20 to 64+75.19	RT	20211	82.2							
66+44.48 to 66+49.48	LT	28577	1.7							
66+72.35 to 66+77.35	LT	22876	2.8							
67+59.43 to 70+05.20	RT	127093	164.8							
100+35.43 to 100+57.62	RT	121336	40.8							
100+66.28 to 104+53.02	LT	22861	251.7							
65+42.52 to 66+27.31	RT	119603	56.5							
101+42.66 to 103+04.47	LT/RT	118978	39.2							
52+43.82 to 52+56.57	RT	24784			6.0					
57+44.09 to 57+57.16	RT	24791			6.1					
57+93.15 to 58+06.22	RT	24799			6.0					
59+13.40 to 59+32.75	RT	24805			12.6					
59+18.52 to 59+27.53	LT/RT	24755			5.5					
59+32.75 to 59+71.47	RT	127608			29.2					
59+71.47 to 59+83.33	RT	24810			5.7					
60+17.80 to 60+29.62	RT	24820			5.7					
61+21.33 to 61+33.15	RT	24827			5.7					
61+70.33 to 61+82.14	RT	24835			5.7					
61+97.29 to 62+09.10	RT	24843			5.7					
62+47.17 to 62+58.99	RT	24852			5.7					
62+81.39 to 62+93.17	RT	24860			5.8					
63+38.34 to 63+50.22	RT	24870			5.8					
64+75.17 to 64+86.72	RT	24877			5.7					
65+30.96 to 65+42.52	RT	24885			5.7					
67+40.63 to 67+59.43	RT	127124			7.3					
100+25.00 to 100+66.43	LT	24944			34.6					
100+26.50 to 100+40.27	RT	121361			19.7					
100+52.84 to 100+65.17	RT	121375			7.8					
198+55.28 to 198+97.59	LT	82594			94.8					
198+85.30 to 199+34.58	LT	82586			90.6					
199+22.15 to 199+56.83	LT	127237			38.2					
52+43.82 to 52+49.57	RT	28430					10.4			
57+51.25 to 57+57.16	RT	28425					10.5			
57+93.16 to 57+99.07	RT	28420					10.5			
59+18.52 to 59+27.53	RT	28435					11.7			
59+18.54 to 59+27.44	LT	28536					11.7			
59+20.53 to 59+25.62	RT	28440					10.0			
59+78.60 to 59+83.33	RT	121488					8.8			
60+17.74 to 60+22.47	RT	121494					8.8			
66+44.48 to 66+49.48	LT	28499					10.0			
67+41.83 to 67+52.43	RT	127214					17.7			
100+26.14 to 100+32.27	LT	28511					15.5			
SUB-TOTAL:			1118.4		415.6		125.6			
TOTAL:			1118		416		177			

REVISIONS				ATKINS NORTH AMERICA, INC. 482 S. KELLER ROAD ORLANDO, FLORIDA 32810 (407) 647-7275 CERTIFICATE OF AUTHORIZATION NO. 24 Chad A. Shockley, P.E. NO. 69331	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 684	MANATEE	436551-2-52-01		SQ-10

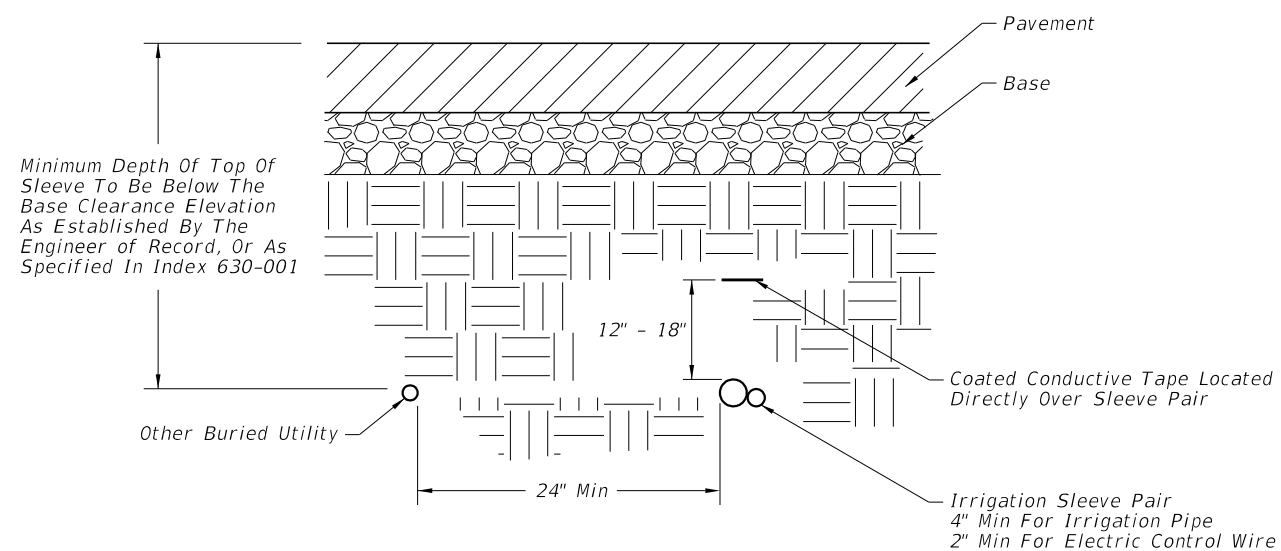
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



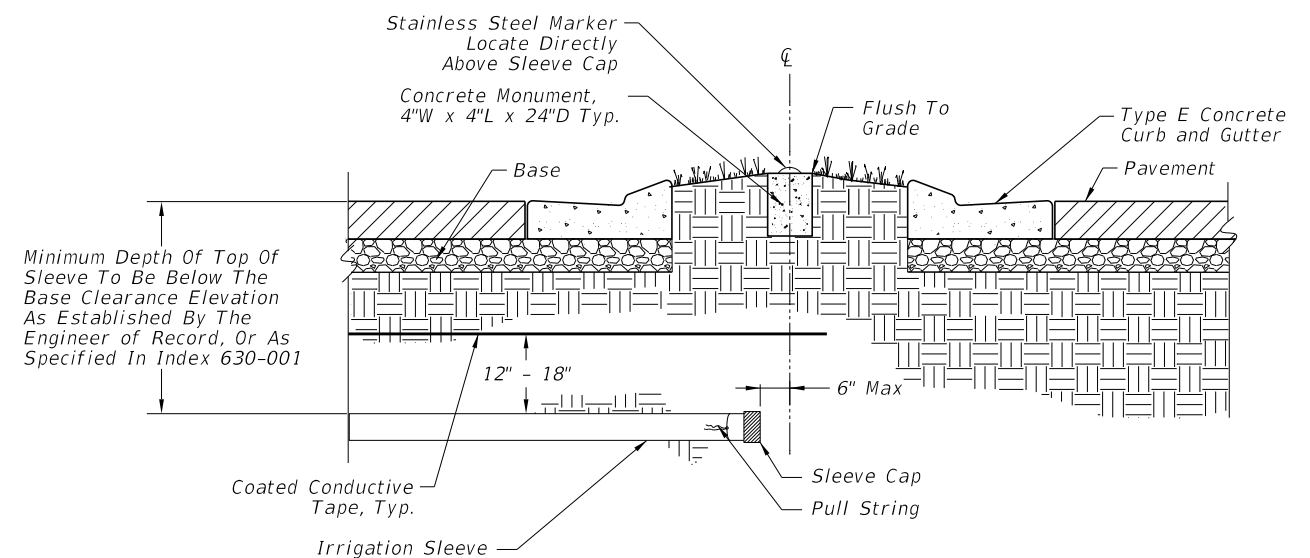
ROADWAY WITH UTILITY STRIP - DETAIL A



ROADWAY WITHOUT UTILITY STRIP - DETAIL B



ROADWAY CROSS SECTION - DETAIL C



ROADWAY MEDIAN - DETAIL D

GENERAL NOTES:

1. Irrigation Sleeve Installation Details are for constructing a pair of Irrigation Sleeves beneath the proposed roadway prior to beginning roadway construction operations. Install either Sch. 40 PVC or HDPE Sleeves in accordance with Specification Sections 555 and/or 630. For Irrigation Sleeve Installation beneath existing roadways and electrical conduit requirements for existing roadways, see Index 630-001.
2. Contractor shall install Irrigation Sleeves in accordance with applicable Florida Plumbing Codes and Florida Department of Environmental Protection (FDEP) Rules and Regulations. Irrigation Sleeves containing reclaimed water lines shall follow FDEP Rules and Regulations; and adhere to local Utility and Water Management District Regulations.
3. A Stainless Steel Marker shall be permanently affixed to the top of the Concrete Monument located directly above the Sleeve Cap. Each Marker shall be preprinted with the message: "IRRIGATION SLEEVE BELOW."

4. Coated Conductive Tape shall be installed directly above the sleeve and shall be preprinted with repeated warnings of either: "CAUTION WATER LINE BURIED BELOW" or "CAUTION RECLAIMED WATER LINE BURIED BELOW", or as otherwise approved by the Engineer.
5. For Directional Bore, Coated Conductive Tape to be omitted and replaced with locate wire per Specification Section 555.
6. When installing Sleeves in a median crossover, Sleeve Pairs shall be along the centerline.
7. Irrigation Sleeves for electrical control wire and irrigation pipe shall be no greater than 12" apart.
8. Sleeves are always installed as a pair. Payment will be made for each sleeve.

PAY ITEM NOTE:

Except where shown on the plans as paid in accordance with Specifications Section 555 - Directional Bore, payment for Landscape Irrigation Sleeves shall be made under 591 regardless of the method of installation selected by the contractor. Payment includes full compensation for all work shown in this Index including but not limited to furnishing and installing the Coated Conductive Tape (or locate wire) and concrete monument(s), as well as the cost of restoring cut pavement, sidewalks, sod and etc. to its original condition. The length will be based on the horizontal path in linear feet of each installed sleeve as measured in a straight line from end cap to end cap.

10/16/2018 11:15:53 AM

LAST REVISION	DESCRIPTION:	DEVELOPMENTAL STANDARD PLANS	LANDSCAPE IRRIGATION SLEEVES	INDEX	SHEET
10/16/18				D591-001	1 of 1