LEE COUNTY
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

GUNNERY ROAD

PROJECT ID 99012.201

LEE COUNTY PROJECT NO. 4055

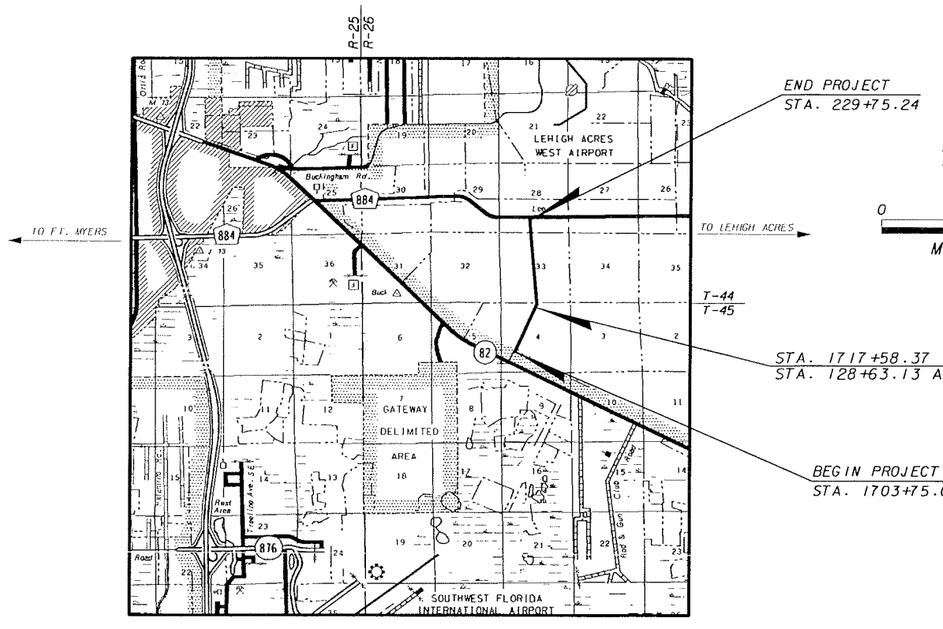
COMPONENTS OF CONTRACT PLANS SET

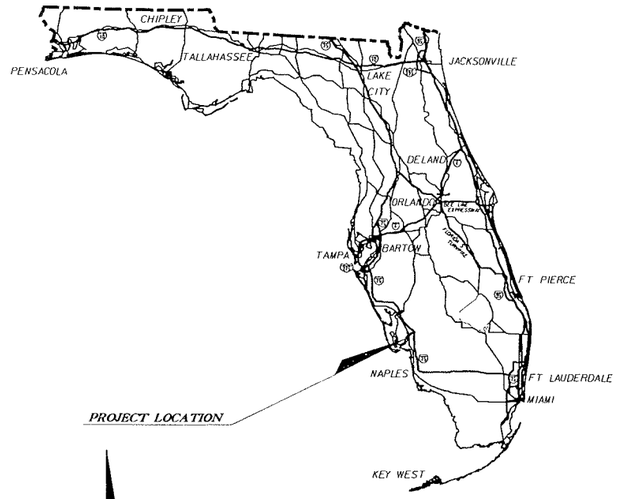
ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-6	DRAINAGE MAPS
7-8	TYPICAL SECTIONS
9-10	SUMMARY OF QUANTITIES
11-12	BOX CULVERT DATA SHEETS
13	BOX CULVERT PHASE CONSTRUCTION
14-23	SUMMARY OF DRAINAGE STRUCTURES
24	PROJECT LAYOUT
25-26	SURVEY REFERENCE POINTS
27	GENERAL NOTES
28-64	ROADWAY PLANS/PLAN & PROFILES
65-76	ROADWAY PROFILES
77-78	SPECIAL DETAILS
79	CONTROL STRUCTURE/DITCH PAVT. DETAIL
80-130	DRAINAGE STRUCTURES
131	ROADWAY SOIL SURVEY
132-191	CROSS SECTIONS
192-193	STORM WATER POLLUTION PREVENTION PLAN
194-199	TRAFFIC CONTROL PLAN
200-235	UTILITY ADJUSTMENTS





N

0 1 2
Miles

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

LEE COUNTY DEPARTMENT OF TRANSPORTATION
1500 MONROE STREET, 3RD FLOOR
FORT MYERS, FLORIDA 33901

PLANS PREPARED BY:

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane, Bldg. 80
Fort Myers, FL 33907
EB-4464

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2004,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

PROJECT LENGTH IS BASED ON ℄ CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	11495.48	2.177
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	11495.48	2.177
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	11495.48	2.177

LEE COUNTY PROJECT MANAGER: NICOLE MAXEY, P.E

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

DEVELOPMENT ORDER APPROVED:
PUBLIC WORKS ADMINISTRATION

JIM LAVENDER DATE
PUBLIC WORKS DIRECTOR

ROADWAY PLANS
ENGINEER OF RECORD: GEORGE R. BRINSON, Jr., P.E.

P.E. NO.: 47607

FISCAL YEAR	SHEET NO.
	1

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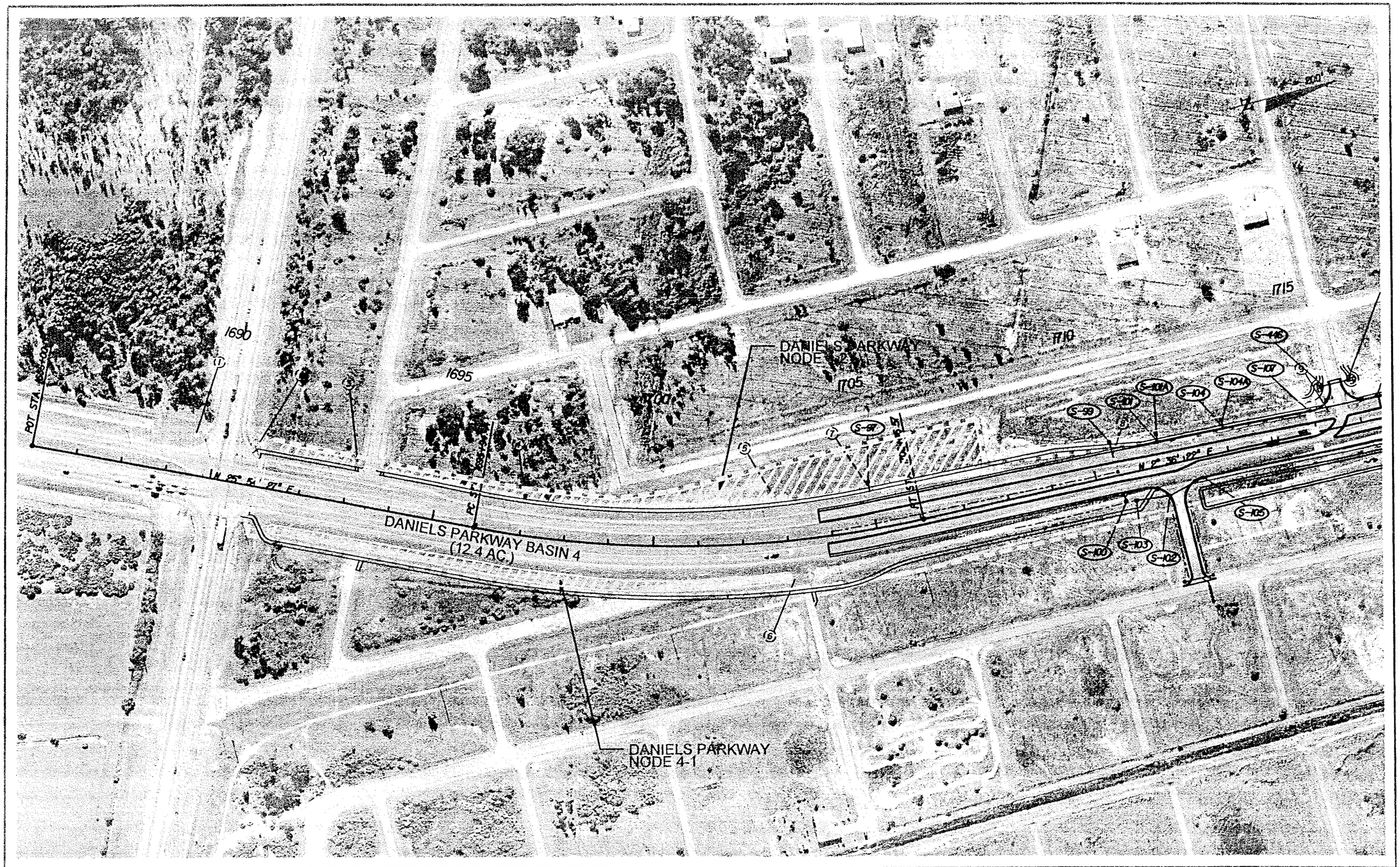

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
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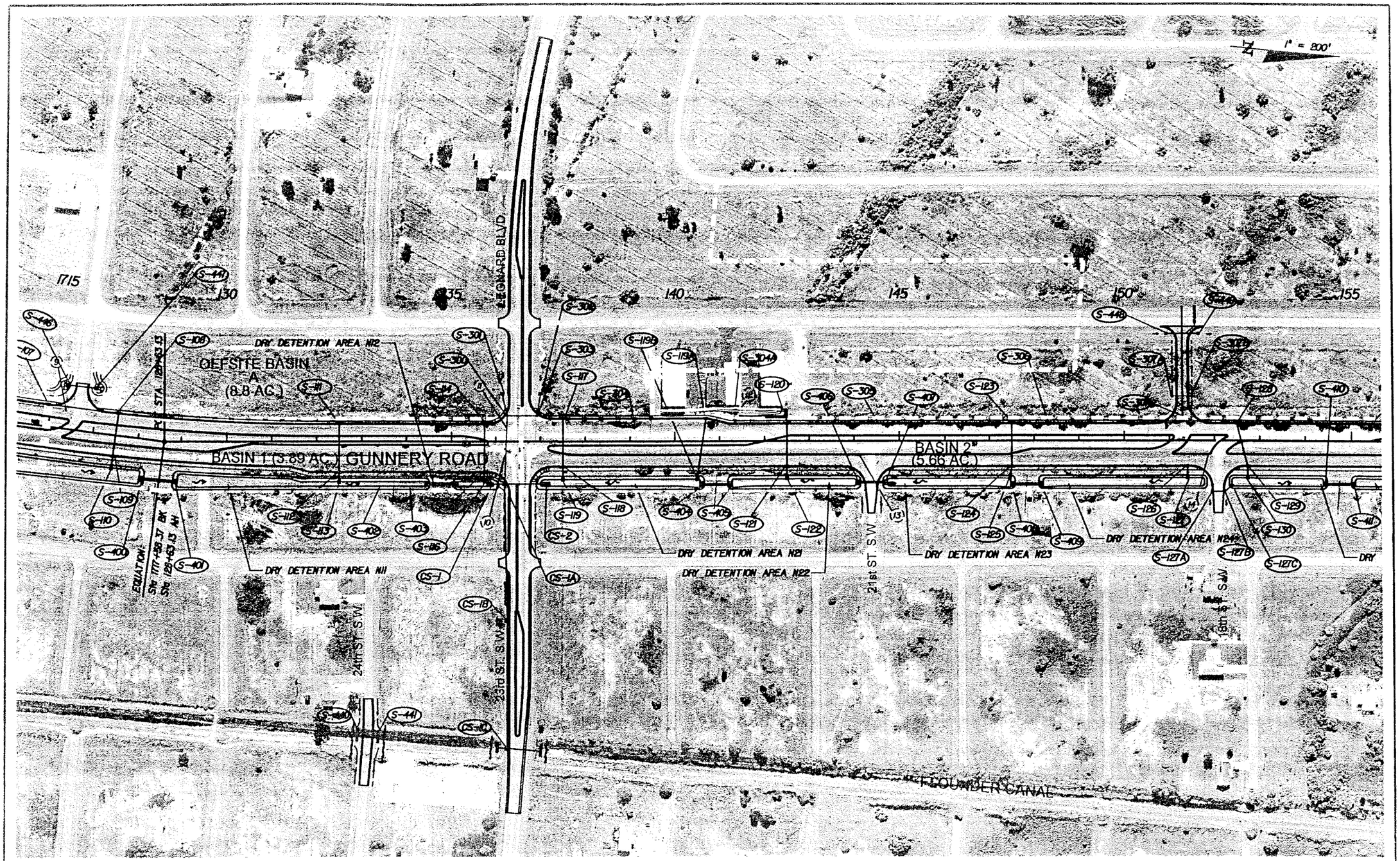
George R. Brinson, P.E. #47507

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE MAP

SHEET NO. 2



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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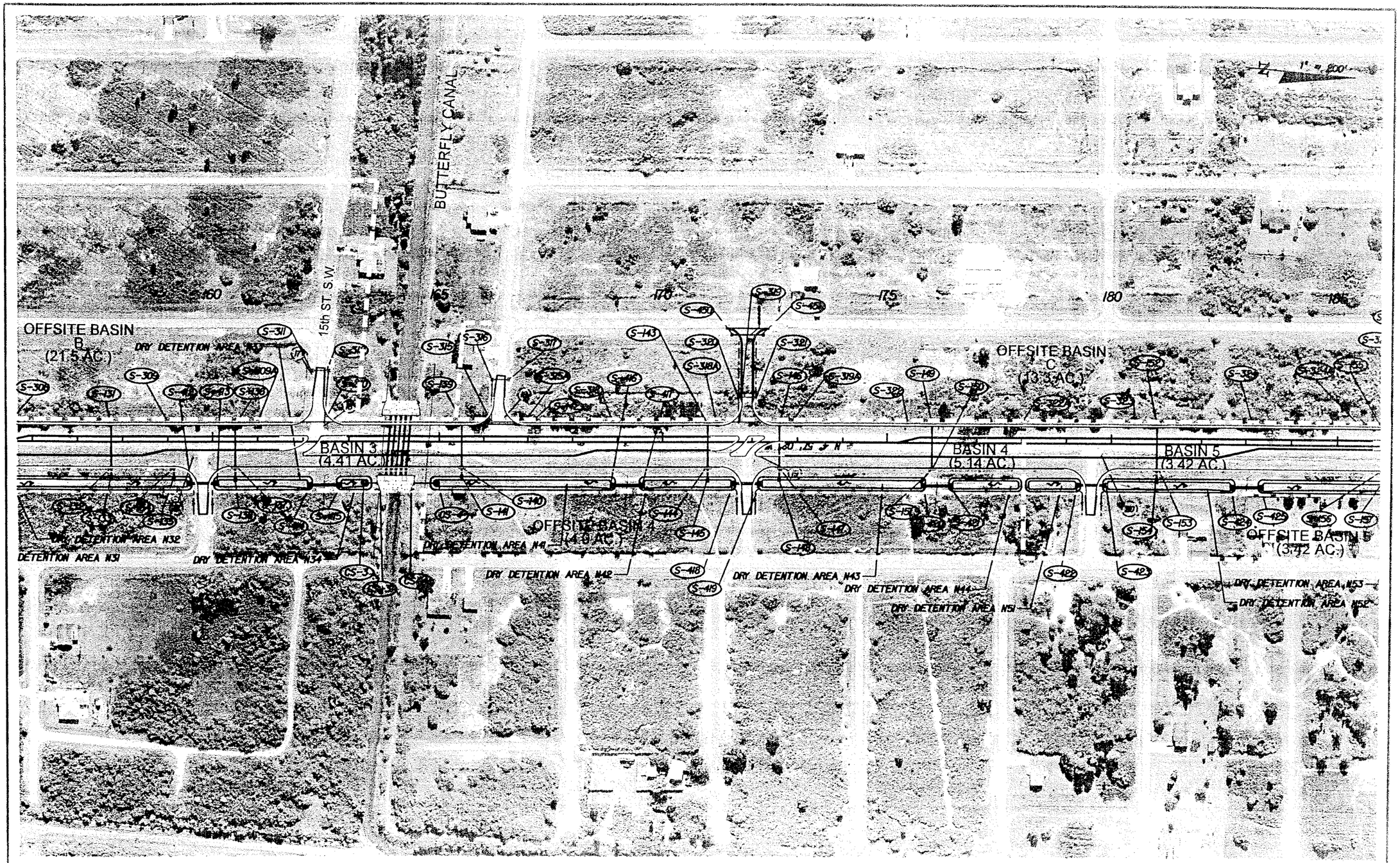
George R. Brinsan, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE MAP

SHEET NO. 3



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
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12701 World Plaza Lane
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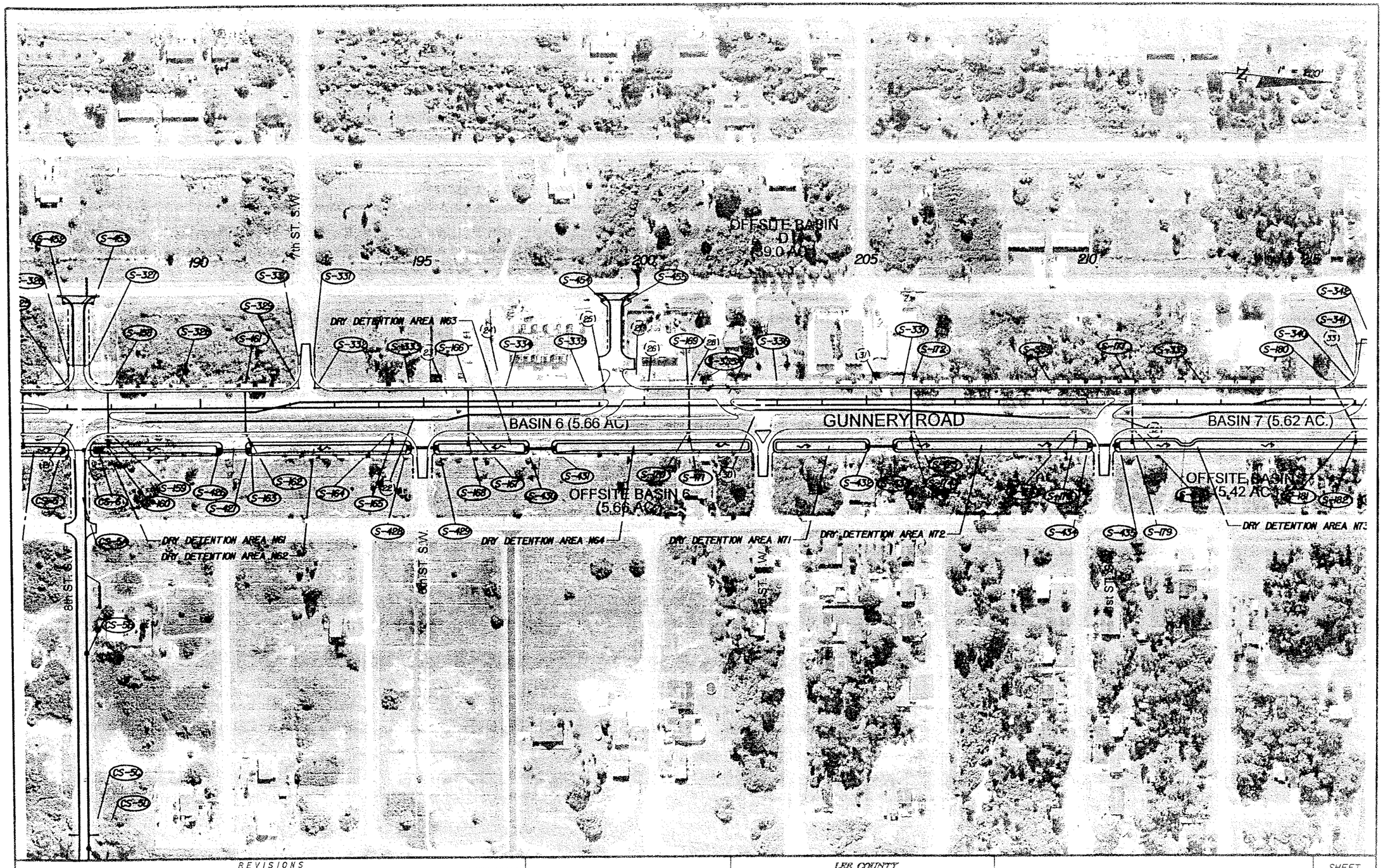
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PW&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE MAP

SHEET NO. 4



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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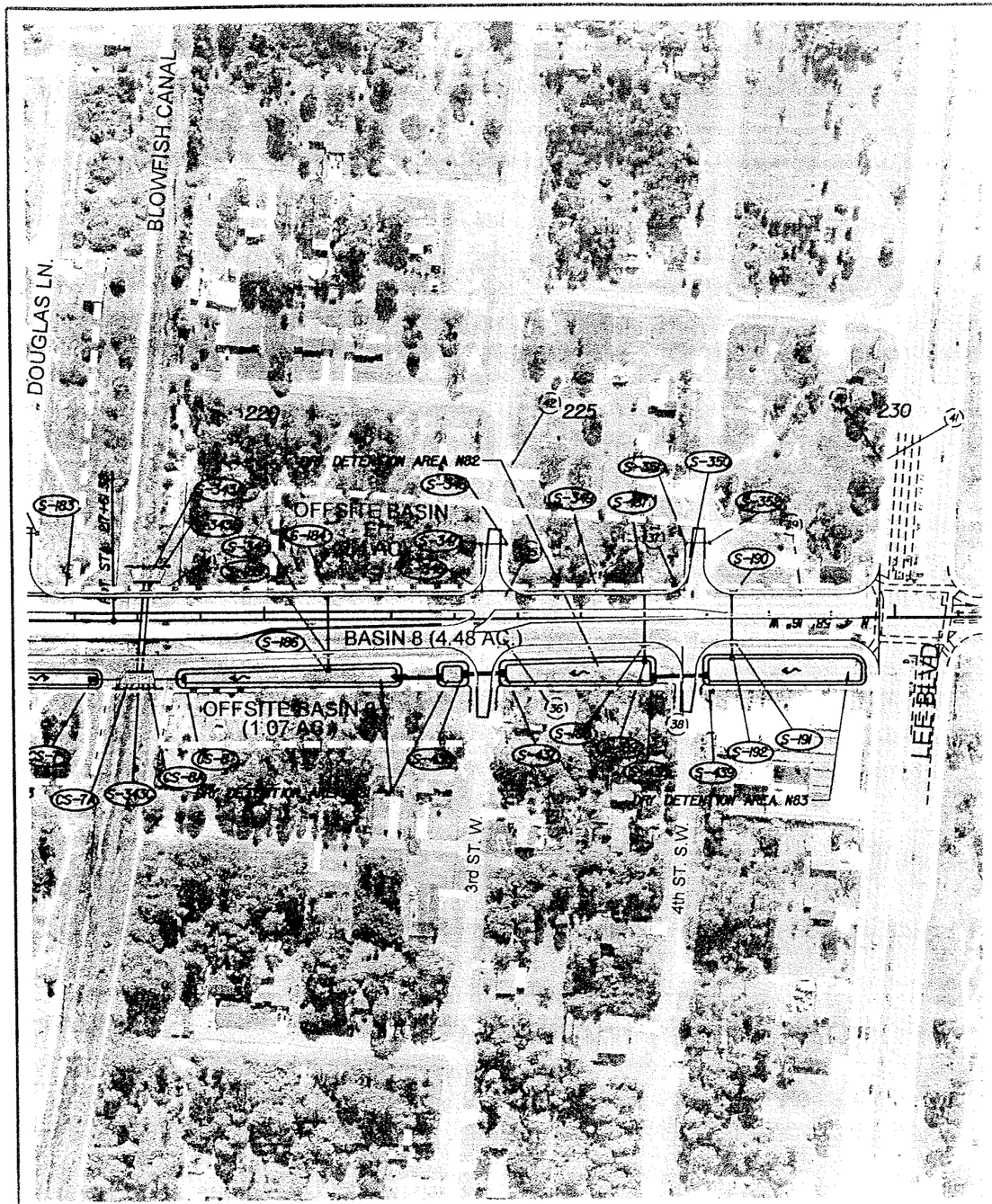
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PW&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE MAP

SHEET NO. 5



1" = 800'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Prize Lane
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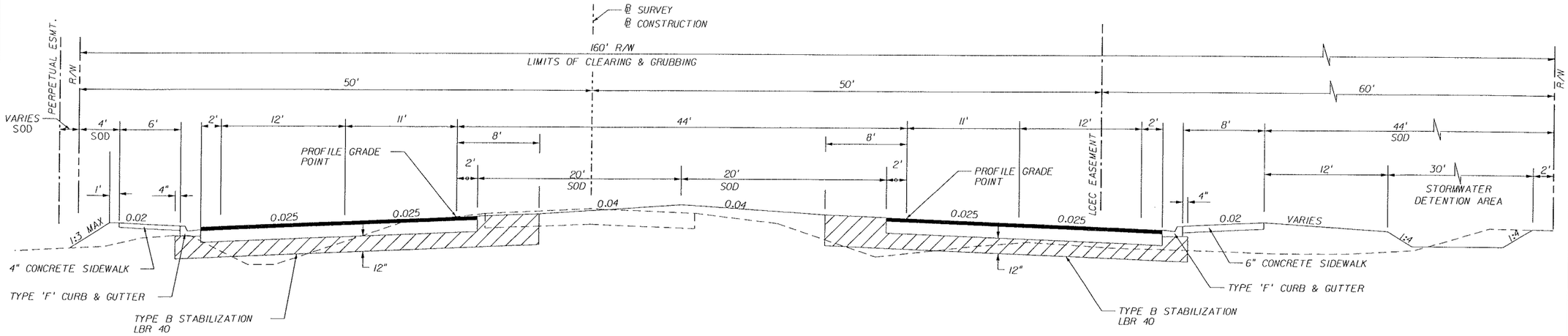
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PM&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE MAP

SHEET NO. 6



TYPICAL SECTION

GUNNERY ROAD

STA. 1703+75.00 TO STA. 229+75.24

NEW CONSTRUCTION - 1703+75.00 TO 137+88.74

OPTIONAL BASE GROUP 9 WITH
TYPE S-I STRUCTURAL COURSE 2.50" (250 LBS/SY)
AND TYPE S-III SURFACE COURSE 1" (100 LBS/SY)

NEW CONSTRUCTION - 137+88.74 TO 229+75.24

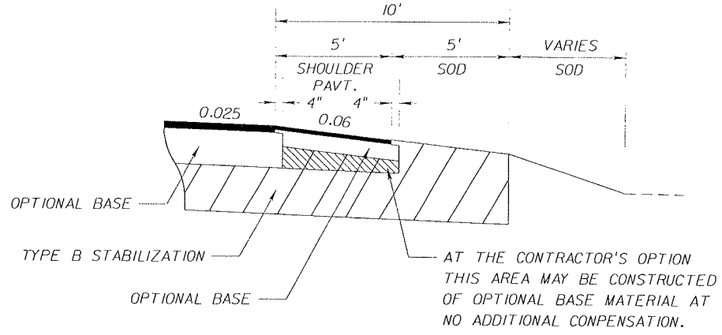
OPTIONAL BASE GROUP 9 WITH
TYPE S-I STRUCTURAL COURSE 2.00" (200 LBS/SY)
AND TYPE S-III SURFACE COURSE 1" (100 LBS/SY)

TRAFFIC DATA SR 82 TO LEONARD BLVD.

OPENING YEAR ESTIMATE = 2004 AADT = 18,200
DESIGN YEAR ESTIMATE = 2024 AADT = 47.338
K = 9% D = 50% T = 9% (24 HOUR)
DESIGN SPEED = 45 MPH

TRAFFIC DATA LEONARD BLVD. TO LEE BLVD.

OPENING YEAR ESTIMATE = 2004 AADT = 14,200
DESIGN YEAR ESTIMATE = 2024 AADT = 29,212
K = 9% D = 50% T = 9% (24 HOUR)
DESIGN SPEED = 45 MPH



SHOULDER PAVEMENT DETAIL

GUNNERY ROAD

STA. 1703+75.00 TO 1711+01.51

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE S-III SURFACE COURSE 1" (100 LBS/SY)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TYPICAL SECTION

SHEET NO. 7

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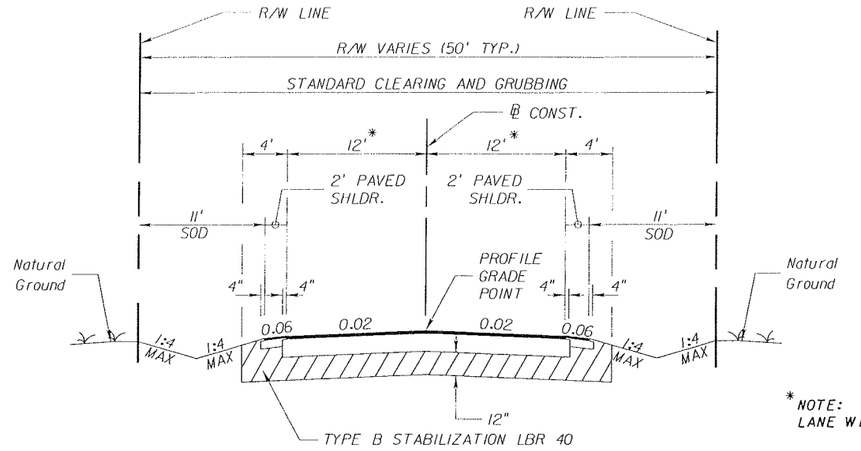


*NOTE:
LANE WIDTHS ON 24TH ST. S.W. AND 3RD ST. W. ARE 10'.

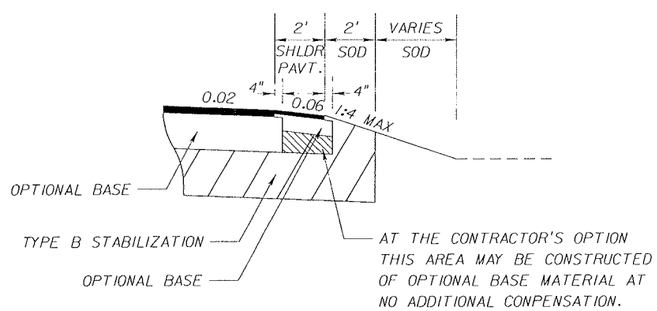
SIDE STREET TYPICAL SECTION

NEW CONSTRUCTION - SIDE STREETS

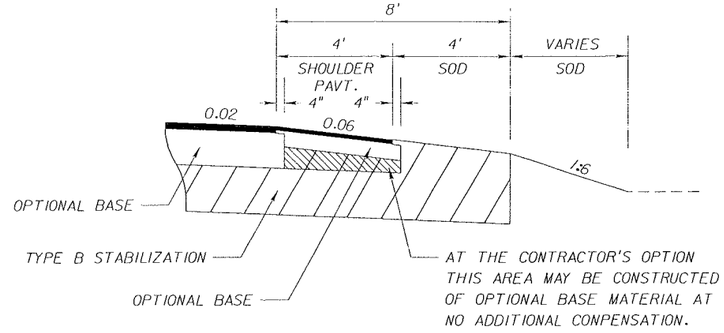
OPTIONAL BASE GROUP 6 WITH
TYPE S-III SURFACE COURSE 1" (150 LBS/SY)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE S-III SURFACE COURSE 1" (150 LBS/SY)



SHOULDER PAVEMENT DETAIL
SIDE STREETS



SHOULDER PAVEMENT DETAIL
LEONARD ST. AND 23RD ST.

NOTE:
DESIGN SPEED LEONARD ST. AND 23RD ST = 45 MPH

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TYPICAL SECTION

SHEET NO. 8

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SUMMARY OF GRAVITY WALL & ALUMINUM HANDRAIL

LOCATION STA. TO STA.	SIDE	STRUCTURE NO.	STRUCTURE TYPE	ALUMINUM PIPE GUIDERAIL LF P	ALUMINUM PIPE GUIDERAIL LF F	ALUMINUM PED. PICKET RAILING LF P	ALUMINUM PED. PICKET RAILING LF F	CLASS I CONC. RETAINING WALL LF P	CLASS I CONC. RETAINING WALL LF F	REMARKS	FIELD BOOK REF
139+00.34 - 139-09.34	LT	304	E	9.0							
139+54.82 - 140+83.41	LT	N/A	N/A	128.6				25.7			
141+29.96 - 141+38.96	LT	304A	E	9.0							
158+95.50 - 159-04.50	LT	309	E	9.0							
160+95.21 - 161+04.21	LT	309A	E	9.0							
166+86.50 - 166+95.50	LT	315A	E	9.0							
168+85.50 - 168+94.50	LT	318	E	9.0							
171+15.50 - 171+24.50	LT	318A	E	9.0							
172+80.50 - 172+89.50	LT	319A	C	9.0							
175+40.50 - 175+49.50	LT	322	C	9.0							
177+95.50 - 178+04.50	LT	322A	C	9.0							
180+45.50 - 180+54.50	LT	323	C	9.0							
183+10.17 - 183+19.84	LT	324	C			9.7					
185+45.50 - 185+54.50	LT	324A	C	9.0							
189+45.50 - 189+54.50	LT	328	C	9.0							
194+65.50 - 194+74.50	LT	333	C	9.0							
196+80.50 - 196+89.50	LT	334	C	9.0							
198+65.50 - 198+74.50	LT	335	E	9.0							
202+95.50 - 203+04.50	LT	336	E	9.0							
205+75.50 - 205+84.50	LT	337	E	9.0							
209+15.50 - 209+24.50	LT	338	E	9.0							
212+55.50 - 212+64.50	LT	339	E	9.0							
220+45.50 - 220+54.50	LT	345	C	9.0							
225+20.50 - 225+29.50	LT	349	C	9.0							
TOTAL:				326.6		9.7		25.7			

SUMMARY OF EARTHWORK

DESCRIPTION	CY P	CY F
ROADWAY EXCAVATION		
GUNNERY ROAD	27589	
27TH STREET S.W.	110	
24TH STREET S.W.	234	
LEONARD STREET	945	
23RD STREET S.W.	803	
18TH STREET S.W.	187	
13TH STREET S.W.	265	
8TH STREET S.W.	1074	
3RD STREET S.W.	187	
3RD STREET WEST	133	
STOCKPILE EXCAVATION	7936	
TOTAL ROADWAY EXCAVATION	39463	
ROADWAY EMBANKMENT		
GUNNERY ROAD	49024	
27TH STREET S.W.	8	
24TH STREET S.W.	117	
LEONARD STREET	325	
23RD STREET S.W.	231	
18TH STREET S.W.	21	
13TH STREET S.W.	0	
8TH STREET S.W.	13	
3RD STREET S.W.	10	
3RD STREET WEST	83	
TOTAL ROADWAY EMBANKMENT	49832	

1. Earthwork has been calculated using the limerock base option. If another option is constructed, there shall be no revision to the earthwork quantities for which payment is made by Plan Quantity.
2. A stockpile of earthwork material is provided within the right of way limits for the contractors use.

SUMMARY OF TURNOUTS

LOCATION STA. TO STA.	LOCATION STREET	SIDE	SY P	SY F
28+66.14 - 29+28.81	3rd St.	RT	95.6	
28+70.27 - 29+27.34	3rd St.	LT	88.3	
TOTAL:			183.9	

PAY ITEM NOTES

102-1	INCLUDES 4419 SY OF TEMPORARY PAVEMENT
120-6	INCLUDES THE COSTS OF ALL WORK AND MATERIALS REQUIRED FOR EATHWORK OPERATIONS INCLUDING BUT NOT LIMITED TO REGULAR EXCAVATION. NO SEPARATE PAYMENT WILL BE MADE FOR REGULAR EXCAVATION. EARTWORK QUANTITIES ARE PROVIDED IN THE SUMMARY OF EARTHWORK TABLE FOR INFORMATION PURPPOSES.
286-1	PAVEMENT DESIGN FOR TURNOUT CONSTRUCTION SHALL MATCH THE PAVEMENT DESIGN FOR SIDE STREET CONSTRUCTION
331-2-1	INCLUDES 183.9 SY FOR TURNOUT CONSTRUCTION.
400- 1- 15	INCLUDES 5 CY FOR MISCELLANEOUS CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
425-1-559	INCLUDES STEEL GUARD WHERE SPECIFIED. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL BACK OF SIDEWALK DRAINAGE STRUCTURES.
455-133-1	INCLUDES 1980 SF FOR CONSTRUCTION OF DRAINAGE CROSSING AT STA 218+10 +/- CONTRACTOR TO SUBMIT DESIGN OF TEMPORARY SHEET PILING FOR THIS LOCATION.
575-1-1	INCLUDES SODDING, WATER FOR GRASS AT A RATE OF ONE INCH OF WATER PER WEEK FOR A MINIMUM OF FOUR CONSECUTIVE WEEKS, FERTILIZER AT A RATE OF 400 LB/AC, AND MOWING EVERY SIX WEEKS.

TOTAL:

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIRANO, HARTENSTEIN & ASSOC., INC.
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF QUANTITIES

SHEET NO. 9

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SUMMARY OF PVC PIPE

	LOCATION STA. TO STA.	SIDE	PIPE (LF) 6"	FIELD BOOK REFERENCE
P	201+10.67 (S-335A)	LT	8	
F				
TOTAL			8	

SUMMARY OF DITCH PAVEMENT

LOCATION STA. TO STA.	STRUCT.	SIDE	RIPRAP (RUBBLE) TN P	RIPRAP (RUBBLE) TN F	CONCRETE SY P	CONCRETE SY F	REMARKS		FIELD BOOK REF.
1716+50.00	S-110	RT			23.0				
132+50.00	S-113	RT			20.1				
135+75.00	S-116	RT			8.5				
137+50.00	S-119	RT			15.6				
140+49.67	S-119B	RT			10.7				
142+50.00	S-122	RT			12.7				
147+44.87	S-125	RT			3.6				
151+40.00	S-127	RT			9.0				
152+75.00	S-130	RT			9.3				
157+75.00	S-133	RT			7.2				
159+13.54	S-135	RT			9.4				
160+50.00	S-138	RT			20.1				
165+50.00	S-141	RT			8.7				
171+00.00	S-145	RT			24.1				
172+60.00	S-148	RT			14.2				
175+75.17	S-151	RT			21.8				
181+00.00	S-154	RT			14.8				
186+00.00	S-157	RT			14.2				
187+92.40	S-160	RT			4.9				
191+14.53	S-163	RT			2.2				
194+30.00	S-165	RT			7.1				
196+00.00	S-168	RT			22.0				
201+00.00	S-171	RT			25.7				
206+00.00	S-174	RT			24.1				
209+73.58	S-176	RT			11.4				
211+00.00	S-179	RT			21.0				
216+00.00	S-182	RT			25.7				
221+00.00	S-186	RT			17.8				
226+00.00	S-189	RT			22.5				
227+40.00	S-192	RT			14.4				
135+82.95	CS-1	RT			7.1				
137+18.95	CS-2	RT			13.3				
163+30.19	CS-3	RT			10.0				
164+97.52	CS-4	RT			10.0				
186+89.83	CS-5	RT			7.1				
187+77.83	CS-6	RT			13.3				
217+24.35	CS-7	RT			10.0				
218+73.20	CS-8	RT			6.7				
41+98.21	S-442	RT			33				
41+98.21	S-443	LT			33				
164+10.00	S-313	RT		366.7					
164+10.00	S-313	LT		345.4					
218+15+71	S-343A	LT		108.2					
218+01.97	S-343C	RT		104.7					
TOTAL				925.0	589.3				

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN-HARTENSTEIN & ASSOC. INC.
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF QUANTITIES

SHEET NO. 10

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FLORIDA DEPARTMENT OF TRANSPORTATION
BOX CULVERT AND WINGWALL DESIGN

E N G L I S H O U T P U T

LOCATION DESCRIPTION : BEGIN CULVERT STA. 164+03.12 OFFSET 78.66 RT. (SEGMENT 1)
ENVIRONMENT : MODERATELY AGGRESSIVE, USE CLASS IV CONCRETE

MATERIAL PROPERTIES

STEEL YIELD STRENGTH	60. KSI	BARREL EXT. COVER: TOP SL.	3 IN;	BOT. SL.	3 IN;	WALL	3 IN
CONCRETE 28 DAY STREN.	5500. PSI	BARREL INT. COVER: ALL LOC.	3 IN				
DESIGN F'C	5500. PSI	WINGWALL : ALL LOC.	3 IN				

PROPERTIES OF ELEMENTS

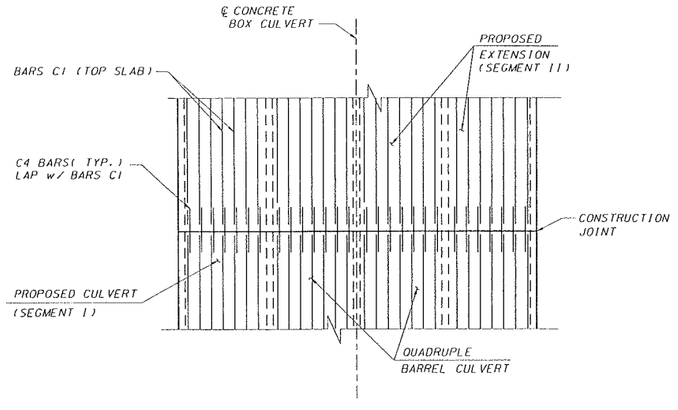
BARREL : NO. OF BARREL(S) = 4; SPAN = 10 FT 0 IN; HEIGHT = 9 FT 0 IN; DEPTH OF FILL = 4 FT 0 IN
LENGTH AT BOX CENTER LINE = 53 FT 0 IN; LEFT SIDE SKEW ANGLE = 175 DEGREE; WIDTH = 44 FT 4 IN
RIGHT SIDE SKEW ANGLE = 175 DEGREE; WIDTH = 44 FT 4 IN
THKNSS.: TOP SL. = 9 1/2 IN; BOTTOM SL. = 9 1/2 IN; EXT. WALL = 10 IN; INT. WALL = 10 IN

WINGWALL: NO. OF WINGWALL(S) BOTH LEFT AND RIGHT SIDES NO. OF HEADWALL(S) RIGHT SIDE ONLY

TOP BEVEL = 6 IN; SIDE BEVEL = 6 IN;
WALL HEIGHT = 10 FT 9 1/2 IN; FOOTING WIDTH = 6 FT 10 1/2 IN; HEEL DIMENSION = 4 FT 2 IN;
TOE DIMENSION = 1 FT 10 IN; WALL THICKNESS = 10 1/2 IN; FOOTING THICKNESS = 11 IN;
TOE PRESSURE = 1495. psf

SKEW ANGLE : LEFT FRONT = 0 DEGREE; LEFT BACK = 180 DEGREE;
RIGHT FRONT = 0 DEGREE; RIGHT BACK = 180 DEGREE.
LENGTH = 19 FT 0 IN* (0 FT 0 IN**); FRONT TIP HEIGHT = 10 FT 9 1/2 IN
WALL = 6.542 C.Y.; FOOTING = 5.109 C.Y.;
TOTAL = 11.652 C.Y.

TOTAL WINGWALL LENGTH WITH BARREL WIDTH : LEFT = 82 FT 4 IN; RIGHT = 82 FT 4 IN



PARTIAL PLAN-BOX CULVERT CONNECTION DETAIL
(TOP SLAB SHOWN BOTTOM SLAB SIMILAR)
(NOT ALL REINFORCING SHOWN FOR CLARITY)

CONCRETE QUANTITIES

BARREL : POUR 1 (BOTTOM SLAB) - 1.321 C.Y./FT.; POUR 2 (WALLS) - 1.337 C.Y./FT.; POUR 3 (TOP SLAB) - 1.325 C.Y./FT.
POUR 4 (HEADWALL(S)) - 2.053 C.Y. TOTAL (EXCLUDE HEADWALL) - 3.983 C.Y./FT.

WINGWALL: POUR 1 (FOOTING***) - 28.625 C.Y.; POUR 2 (WALLS) - 26.169 C.Y.; TOTAL - 54.794 C.Y.

TOTAL CONCRETE QUANTITIES

BARREL - 213.153 C.Y.; WINGWALL - 54.794 C.Y.; TOTAL - 267.947 C.Y.

* SKEWED WINGWALL LENGTH MEASURED ON CENTER LINE FROM CONSTRUCTION JOINT
** DISTANCE FROM OUTSIDE EDGE OF BARREL EXTERIOR WALL TO CONSTRUCTION JOINT ON CENTER LINE OF WINGWALL
*** INCLUDE TOE AND KEY AT BARREL ENDS

ENVIRONMENT : MODERATELY AGGRESSIVE, USE CLASS IV CONCRETE

STEEL QUANTITIES AND BAR SCHEDULE

BARREL QUANTITIES:

LOCATION	BAR	NUMBER SETS	SIZE	SPACING (FT-IN)	TYPE	LENGTH (FT-IN)	QUANTITY (LB)	B LENGTH (FT-IN)	C LENGTH (FT-IN)	D LENGTH (FT-IN)
TOP SLAB	A100	118	6	0- 5	1	43- 8	7739			
TOP SLAB BOTH SIDES	A101	6	6	0- 5	1	27- 8	249			
	A102	6	6	0- 5	1	13- 5	121			
BOT SLAB	A200	108	5	0- 5 1/2	1	43- 8	4919			
BOT SLAB BOTH SIDES	A201	4	5	0- 5 1/2	1	31- 6	131			
	A202	4	5	0- 5 1/2	1	21- 0	88			
	A203	4	5	0- 5 1/2	1	10- 6	44			
TOP SLAB	A300	49	8	1- 0	1	43- 8	5713			
TOP SLAB	B300	150	8	1- 0	1	6- 4	2536			
TOP SLAB BOTH SIDES	A301	4	8	0- 6	1	30- 6	326			
	A302	4	8	0- 6	1	19- 1	204			
	A303	4	8	0- 6	1	7- 8	82			
BOT SLAB	A400	99	8	0- 6	1	43- 8	11542			
BOT SLAB BOTH SIDES	A401	4	8	0- 6	1	30- 6	326			
	A402	4	8	0- 6	1	19- 1	204			
	A403	4	8	0- 6	1	7- 8	82			
CORNER (TOP)	A1	212	5	0- 6	10	5-11	1308	2- 9	3- 2	
CORNER (BOTTOM)	A2	212	6	0- 6	10	8- 6	2707	4-11	3- 7	
EXTERIOR WALL (INSIDE)	B1	150	5	0- 8 1/2	1	10- 1	1578			
EXTERIOR WALL (OUTSIDE)	B2	212	5	0- 6	1	8- 2	1806			
INTERIOR WALL	B3	696	5	0- 5 1/2	1	10- 1	7320			
LONGITUDINAL	C1	312 (2)	4	1- 6	1	27- 1	5645			
SPLICE	C4	152	4	1- 6 (SEE NOTE 2)	1	4- 0	406	2- 0	2- 0	
HEADWALL RIGHT SIDE	G2	8 (2)	5	SEE INDEX	1	23- 1	193			
HEADWALL RIGHT SIDE	P	45	4	1- 0	11	3- 2	95	0-11	1- 3	1- 0

PER FOOT BARREL STEEL QUANTITY 1037. LBS./FOOT
TOTAL BARREL STEEL QUANTITY 55364 LBS.

WINGWALL QUANTITIES: E N G L I S H O U T P U T

LOCATION	BAR	NUMBER SETS	SIZE	SPACING (FT-IN)	TYPE	LENGTH (FT-IN)	WEIGHT (LB)	B LENGTH (FT-IN)	C LENGTH (FT-IN)
STEM	F	112	5	0- 8	10	13- 4	1556	2- 2	11- 2
STEM	J	56	4	1- 4	1	11- 2	416		
STEM	K	56	4	1- 6	1	18- 6	692		
FOOTING	KF	16	4	SEE INDEX	1	18- 6	196		
FOOTING	L	116	4	0- 8	1	6- 4	492		
FOOTING LEFT SIDE	M1	4 (2)	4	SEE INDEX	1	41- 9	112		
FOOTING RIGHT SIDE	M2	4 (2)	4	SEE INDEX	1	41- 9	112		
STEM TO BARREL DOWELS	N **	44	6	1- 0	10	6- 0	397	3- 0	3- 0
FOOTING SPILLWAY	R	88	4	1- 0	1	3- 1	181		

PER FOOT WINGWALL STEEL QUANTITY 46. LBS./FOOT
TOTAL WINGWALL STEEL QUANTITY 4154 LBS.

* LENGTH IS THE SUM OF BAR LENGTH AT BEGINNING/TOP AND ENDING/BOTTOM OF WINGWALL. NUMBER OF BAR IS THE AMOUNT REQUIRED FOR THIS SUMMATION OF LENGTH. B AND C LENGTH IS FOR THE FIRST BAR OF WINGWALL CLOSE TO THE JOINT OF WINGWALL AND BARREL.
** FOR SKEWED WINGS BEND BARS N TO ACCOMMODATE SKEW, PROVIDE FOR 3 FT. OF BAR IN THE WINGWALL AND HEADWALL.

***** SPLICE LENGTHS CHART *****

BAR	SIZE	SPLICE LENGTH
A200	5	2- 1
A400	8	3-11
B1	5	1- 8
B3	5	2- 1
C1	4	1-11

TOTAL STEEL QUANTITIES

BARREL	55364 LBS.
WINGWALL	4154 LBS.
TOTAL	59518 LBS.

NOTES:
1) WORK THIS DRAWING WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 290.

2) LAP BARS C1 WITH BARS C4. PROVIDE 1'-4" MIN. LAP.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEGNAM KARPOWITSCH & ASSOC. INC.
ENGINEERS
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Scott Jones, P.E. -37719

LEE COUNTY

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

BOX CULVERT DATA (1 OF 2)

SHEET NO. 11

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FLORIDA DEPARTMENT OF TRANSPORTATION
BOX CULVERT AND WINGWALL DESIGN
E N G L I S H O U T P U T

LOCATION DESCRIPTION : (SEGMENT [1)
ENVIRONMENT : MODERATELY AGGRESSIVE, USE CLASS IV CONCRETE

MATERIAL PROPERTIES

STEEL YIELD STRENGTH	60. KSI		
CONCRETE 28 DAY STREN.	5500. PSI		
DESIGN F'C	5500. PSI		

CONCRETE COVER FOR REINFORCING BARS

BARREL EXT. COVER: TOP SL.	3 IN	BOT. SL.	3 IN	WALL	3 IN
BARREL INT. COVER: ALL LOC.	3 IN				
WINGWALL : ALL LOC.	3 IN				

PROPERTIES OF ELEMENTS

BARREL : NO. OF BARREL(S) 4; SPAN 10 FT 0 IN; HEIGHT 9 FT 0 IN; DEPTH OF FILL 4 FT 0 IN
LENGTH AT BOX CENTER LINE 87 FT 2 1/2 IN; LEFT SIDE SKEW ANGLE 175 DEGREE; WIDTH 44 FT 4 IN
RIGHT SIDE SKEW ANGLE 175 DEGREE; WIDTH 44 FT 4 IN
THKNSS.: TOP SL. 9 1/2 IN; BOTTOM SL. 9 1/2 IN; EXT. WALL 10 IN; INT. WALL 10 IN

WINGWALL: NO. OF WINGWALL(S) BOTH LEFT AND RIGHT SIDES NO. OF HEADWALL(S) LEFT SIDE ONLY

TOP BEVEL	6 IN;	SIDE BEVEL	6 IN;		
WALL HEIGHT	10 FT 9 1/2 IN;	FOOTING WIDTH	6 FT 10 1/2 IN;	HEEL DIMENSION	4 FT 2 IN;
TOE DIMENSION	1 FT 10 IN;	WALL THICKNESS	10 1/2 IN;	FOOTING THICKNESS	11 IN;
TOE PRESSURE	1495. psf				

SKEW ANGLE : LEFT FRONT 0 DEGREE; RIGHT FRONT 0 DEGREE; LEFT BACK 180 DEGREE; RIGHT BACK 180 DEGREE.
LENGTH 19 FT 0 IN* (0 FT 0 IN**); FRONT TIP HEIGHT 10 FT 9 1/2 IN
WALL 6.542 C.Y.; FOOTING 5.109 C.Y.;
TOTAL 11.652 C.Y.

TOTAL WINGWALL LENGTH WITH BARREL WIDTH : LEFT 82 FT 4 IN; RIGHT 82 FT 4 IN

CONCRETE QUANTITIES

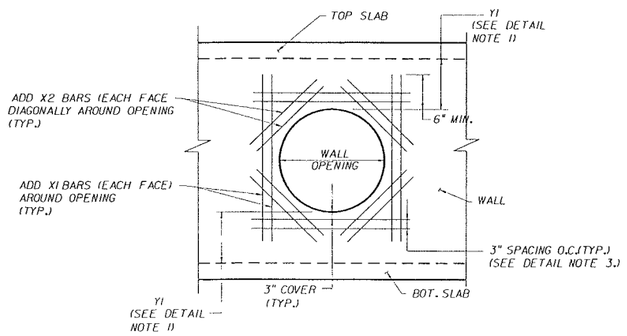
BARREL : POUR 1 (BOTTOM SLAB) 1.321 C.Y./FT.; POUR 2 (WALLS) 1.337 C.Y./FT.; POUR 3 (TOP SLAB) 1.325 C.Y./FT.
POUR 4 (HEADWALL(S)) 2.053 C.Y. TOTAL (EXCLUDE HEADWALL) 3.983 C.Y./FT.

WINGWALL: POUR 1 (FOOTING***) 28.625 C.Y.; POUR 2 (WALLS) 26.169 C.Y.; TOTAL 54.794 C.Y.

TOTAL CONCRETE QUANTITIES

BARREL 349.412 C.Y.; WINGWALL 54.794 C.Y.; TOTAL 404.206 C.Y.

* SKEWED WINGWALL LENGTH MEASURED ON CENTER LINE FROM CONSTRUCTION JOINT
** DISTANCE FROM OUTSIDE EDGE OF BARREL EXTERIOR WALL TO CONSTRUCTION JOINT ON CENTER LINE OF WINGWALL
*** INCLUDE TOE AND KEY AT BARREL ENDS
ENVIRONMENT : MODERATELY AGGRESSIVE, USE CLASS IV CONCRETE



TYPICAL ADDITIONAL REINFORCING DETAIL FOR OPENINGS IN WALL
(SEE BOX CULVERT PLAN SHEET FOR OPENING LOCATIONS)

TYPICAL ADDITIONAL REINFORCING DETAIL NOTES:

1) IF DISTANCE Y1 IS = a) MORE THAN 8" PLACE 2 BARS TOP & BOT. LESS THAN 8" PLACE 1 BAR ONLY TOP & BOT.
   b) IF LESS THAN 2" PLACE 1 BAR INTO THE NEAREST FACE OF SLAB.
2) VERTICAL CLEARANCE BETWEEN WALL OPENINGS AND BOTTOM OR TOP SLAB MAY BE LIMITED. BARS X1 AND X2 MAY BE INSET INTO TOP AND BOTTOM SLAB, BUT FIELD BEND OR FIELD CUT TO MAINTAIN 3" MIN. COVER.
3) IF X2 BARS CONFLICT WITH TYPICAL WALL REINFORCING THEN RELOCATE X2 BARS BETWEEN TYPICAL REINFORCING AND PLACE @ 2" MIN. O.C.
4) NOT ALL REINFORCING SHOWN FOR CLARITY. SEE ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 290 FOR REINFORCING LOCATIONS.
5) FIELD CUT BARS TO MAINTAIN 3" COVER.
6) SEE DRAINAGE PLAN AND PROFILE SHEETS FOR CULVERT AND PIPE INVERT ELEVATIONS.

STEEL QUANTITIES AND BAR SCHEDULE

BARREL QUANTITIES:

LOCATION	BAR	NUMBER SETS	SIZE	SPACING (FT-IN)	TYPE	LENGTH (FT-IN)	QUANTITY (LB)	B LENGTH (FT-IN)	C LENGTH (FT-IN)	D LENGTH (FT-IN)
TOP SLAB	A100	200	6	0- 5	1	43- 8	13118			
TOP SLAB BOTH SIDES	A101	6	6	0- 5	1	27- 8	249			
	A102	6	6	0- 5	1	13- 5	121			
BOT SLAB	A200	182	5	0- 5 1/2	1	43- 8	8289			
BOT SLAB BOTH SIDES	A201	4	5	0- 5 1/2	1	31- 6	131			
	A202	4	5	0- 5 1/2	1	21- 0	88			
	A203	4	5	0- 5 1/2	1	10- 6	44			
TOP SLAB	A300	83	8	1- 0	1	43- 8	9677			
TOP SLAB	B300	252	8	1- 0	1	6- 4	4261			
TOP SLAB BOTH SIDES	A301	4	8	0- 6	1	30- 6	326			
	A302	4	8	0- 6	1	19- 1	204			
	A303	4	8	0- 6	1	7- 8	82			
BOT SLAB	A400	167	8	0- 6	1	43- 8	19471			
BOT SLAB BOTH SIDES	A401	4	8	0- 6	1	30- 6	326			
	A402	4	8	0- 6	1	19- 1	204			
	A403	4	8	0- 6	1	7- 8	82			
CORNER (TOP)	A1	350	5	0- 6	10	5-11	2160	2- 9	3- 2	
CORNER (BOTTOM)	A2	350	6	0- 6	10	8- 6	4468	4-11	3- 7	
EXTERIOR WALL (INSIDE)	B1	248	5	0- 8 1/2	1	10- 1	2608			
EXTERIOR WALL (OUTSIDE)	B2	350	5	0- 6	1	8- 2	2981			
INTERIOR WALL	B3	1146	5	0- 5 1/2	1	10- 1	12052			
LONGITUDINAL	C1	468 (3)	4	1- 6	1	30- 0	9379			
AROUND WALL OPENING	X1	16	4	SEE DETAIL	1	5- 8	61			
AROUND WALL OPENING	X2	16	4	SEE DETAIL	1	3- 0	32			
HEADWALL LEFT SIDE	G1	8 (2)	5	SEE INDEX	1	23- 1	193			
HEADWALL LEFT SIDE	P	45	4	1- 0	11	3- 2	95	0-11	1- 3	1- 0

PER FOOT BARREL STEEL QUANTITY 1033. LBS./FOOT
TOTAL BARREL STEEL QUANTITY 90702 LBS.

WINGWALL QUANTITIES: E N G L I S H O U T P U T

LOCATION	BAR	NUMBER SETS	SIZE	SPACING (FT-IN)	TYPE	LENGTH (FT-IN)	WEIGHT (LB)	B LENGTH (FT-IN)	C LENGTH (FT-IN)
STEM	F	112	5	0- 8	10	13- 4	1556	2- 2	11- 2
STEM	J	56	4	1- 4	1	11- 2	416		
STEM	K	56	4	1- 6	1	18- 6	692		
FOOTING	KF	16	4	SEE INDEX	1	18- 6	196		
FOOTING	L	116	4	0- 8	1	6- 4	492		
FOOTING LEFT SIDE	M1	4 (2)	4	SEE INDEX	1	41- 9	112		
FOOTING RIGHT SIDE	M2	4 (2)	4	SEE INDEX	1	41- 9	112		
STEM TO BARREL DOWELS	N **	44	6	1- 0	10	6- 0	397	3- 0	3- 0
FOOTING SPILLWAY	R	88	4	1- 0	1	3- 1	181		

PER FOOT WINGWALL STEEL QUANTITY 46. LBS./FOOT
TOTAL WINGWALL STEEL QUANTITY 4154 LBS.

* LENGTH IS THE SUM OF BAR LENGTH AT BEGINNING/TOP AND ENDING/BOTTOM OF WINGWALL. NUMBER OF BAR IS THE AMOUNT REQUIRED FOR THIS SUMMATION OF LENGTH. B AND C LENGTH IS FOR THE FIRST BAR OF WINGWALL CLOSE TO THE JOINT OF WINGWALL AND BARREL.
** FOR SKEWED WINGS BEND BARS N TO ACCOMMODATE SKEW, PROVIDE FOR 3 FT. OF BAR IN THE WINGWALL AND HEADWALL.

TOTAL STEEL QUANTITIES

BARREL	90702 LBS.
WINGWALL	4154 LBS.
TOTAL	94856 LBS.

***** SPLICE LENGTHS CHART *****

BAR	SIZE	SPLICE LENGTH
A200	5	2- 1
A400	8	3-11
B1	5	1- 8
B3	5	2- 1
C1	4	1-11

NOTES:
1) WORK THIS DRAWING WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 290.
2) FOR BARS X1 AND X2, SEE "TYPICAL ADDITIONAL REINFORCING DETAIL FOR OPENINGS IN WALL" ON THIS SHEET.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTINE & ASSOC. INC.
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Scott Jones, P.E. #37719

LEE COUNTY

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

BOX CULVERT DATA
(2 OF 2)

SHEET NO. 12

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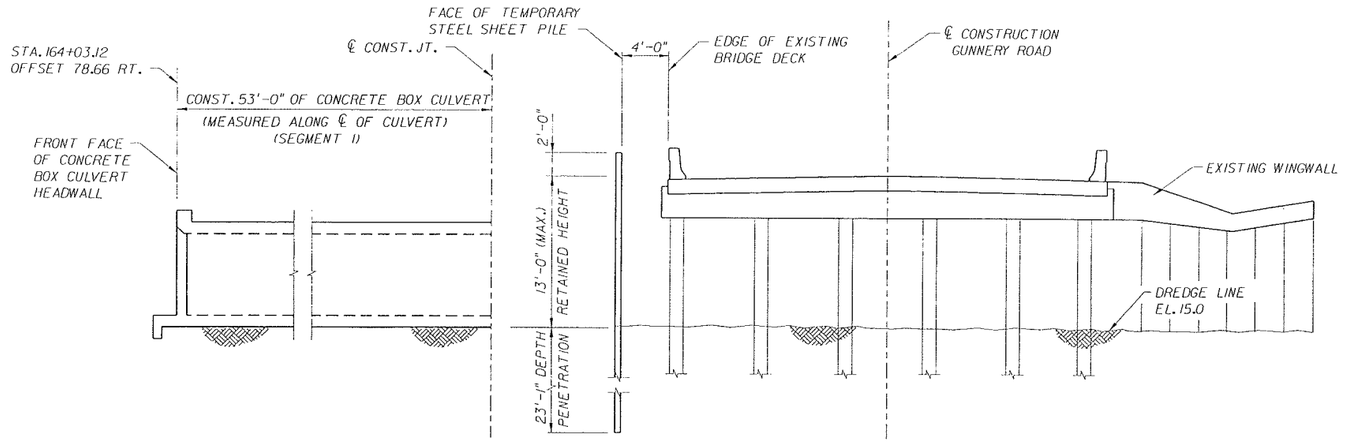


TYPICAL SECTION - PHASE I-C (LOOKING SOUTH)

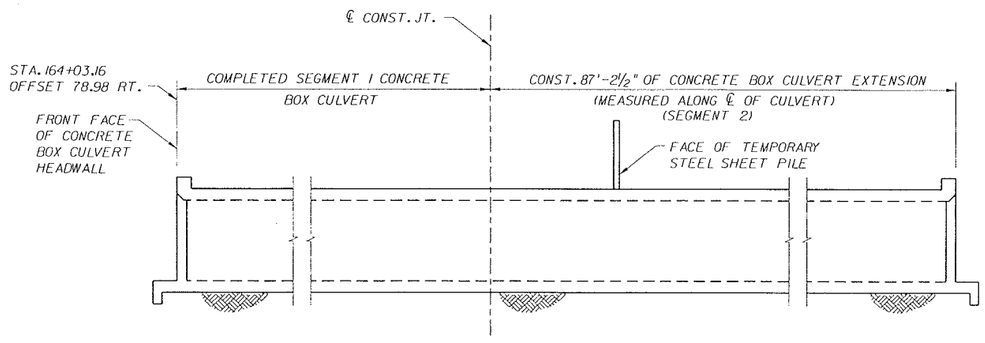
A) MAINTAIN TWO TEMPORARY 10' TRAVEL LANE ON EXISTING BRIDGE.

B) REMOVE EXISTING CONCRETE SHEET PILING WINGWALL.

C) CONSTRUCT TEMP. SHEET PILE WALL FROM STA. 163+63.25 TO STA. 163+89.16 AND STA. 164+30.33 TO STA. 164+56.45. FOR ADDITIONAL INFORMATION, SEE ROADWAY PLANS.

D) EXCAVATE TO PROPOSED EXCAVATION LINE.

E) CONSTRUCT 53'-0" (MEASURED ALONG ℄ OF CONCRETE BOX CULVERT) QUADRUPLE BARREL 10' (W) x 9' (H) CONCRETE BOX CULVERT.



TYPICAL SECTION - PHASE II-B (LOOKING SOUTH)

A) SET TEMPORARY BARRIER AND MOVE ALL TRAFFIC ONTO NEWLY CONSTRUCTED NORTHBOUND LANES.

B) REMOVE EXISTING BRIDGE INCLUDING CONCRETE SHEET PILING, APPROACH SLABS AND WINGWALL.

C) CONSTRUCT 87'-2½" (MEASURED ALONG ℄ OF CONCRETE BOX CULVERT) QUADRUPLE BARREL 10' (W) x 9' (H) CONCRETE BOX CULVERT EXTENSION.

D) TEMPORARY STEEL SHEET PILE ARE TO BE CUTOFF 2'-0" BELOW GRADE AND LEFT IN PLACE UPON COMPLETION OF CULVERT.

NOTES:

1) TEMPORARY SHEET PILING SHALL BE ASTM A328 (FY= 38.5 KSI) AND SHALL HAVE A MINIMUM SECTION MODULUS OF 48.5 IN^3/FT (HOT ROLLED) OR 57.06 IN^3/FT (COLD ROLLED). PILING SHALL HAVE A MINIMUM EMBEDMENT OF 23'-1".

2) AREA OF TEMPORARY STEEL SHEET PILE IS BASED UPON THE DIMENSIONS OF PROJECTION AND EMBEDMENT OF SHEET PILING SHOWN ON THIS SHEET.

TOTAL TEMPORARY STEEL SHEET PILING = 1980 SQ.FT

3) THE CONTRACTOR SHALL ANTICIPATE THAT DEWATERING WILL BE REQUIRED TO FACILITATE BOX CULVERT AND HEADWALL/WINGWALL CONSTRUCTION. ALL BOX CULVERT AND HEADWALL/WINGWALL FOUNDATIONS SHALL BE CONSTRUCTED IN THE DRY. THE CONTRACTOR SHALL USE WELL POINTS, SUMPS, DEEP WELLS AND/OR OTHER NECESSARY DEWATERING METHODS AS REQUIRED TO DEWATER FOUNDATION EXCAVATIONS IN ACCORDANCE TO SECTIONS 455-28 AND 455-29-2.

4) THE CONTRACTOR SHALL SUBMIT FOR APPROVAL HIS METHOD OF DIVERTING THE FLOW OF BUTTERFLY CANAL THROUGH THE CONCRETE BOX CULVERT CONSTRUCTION AREA.

5) FOR LOCATIONS AND ELEVATIONS OF TEMPORARY STEEL SHEET PILE WALL, SEE PLAN AND PROFILE DRAWINGS.

6) FOR MORE INFORMATION ON MAINTENANCE OF TRAFFIC SEE MAINTENANCE OF TRAFFIC DRAWING.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIZZARI HAKIMSTEIN & ASSOC., INC. ENGINEERS JACKSONVILLE • FORT MYERS • TAMPA
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LEE COUNTY		
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

BOX CULVERT PHASE CONSTRUCTION

SHEET NO. 13

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER										
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"		SY	CY	CY	CY	LB	
P	S-96	1697+00.00	LT	MES, PIPE	1						4																					1							24					
F																																											
P	S-97	1704+98.94	LT	MES, PIPE	1						19																					1							24					
F																																											
P	S-98	1710+49.64	LT	INLET	1																			1																				
F																																											
P	S-99	1710+46.22	LT	MES, PIPE	1						31																					1							24					
F																																											
P	S-100	1710+53.05	RT	MES, PIPE	1						16																					1							24					
F																																											
P	S-101	1711+50.00	LT	INLET, PIPE	1	11												1																									
F																																											
P	S-101A	1711+50.00	LT	MES	1																										1							25					
F																																											
P	S-102	1711+50.00	RT	INLET, PIPE	1	68											1																									
F																																											
P	S-103	1710+73.24	RT	MES	1																										1							25					
F																																											
P	S-104	1713+00.00	LT	INLET, PIPE	1	12											1																									
F																																											
P	S-104A	1713+00.00	LT	MES	1																										1							25					
F																																											
P	S-105	1712+32.71	RT	INLET, PIPE	1	86											1																									
F																																											
P	S-107	1714+95.00	LT	INLET, PIPE	1	152											1																									
F																																											
P	S-108	1716+50.00	LT	INLET, PIPE	1	94												1																									
F																																											
P	S-109	1716+50.00	RT	INLET, PIPE	1	21												1																									
F																																											
P	S-110	1716+50.00	RT	MES	1																										1							25					
F																																											
P	S-111	132+50.00	LT	INLET, PIPE	1	106												1																									
F																																											
P	S-112	132+50.00	RT	INLET, PIPE	1	14												1																									
F																																											
P	S-113	132+50.00	RT	MES	1																										1							25					
F																																											
P	S-114	135+75.00	LT	INLET, PIPE	1	106											1																									
F																																											
P	S-115	135+75.00	RT	INLET, PIPE	1	14											1																									
F																																											
P	S-116	135+75.00	RT	MES	1																										1							25					
F																																											
P	S-117	137+50.00	LT	INLET, PIPE	1	106												1																									
F																																											
P	S-118	137+50.00	RT	INLET, PIPE	1	21												1																									
F																																											
P	S-119	137+50.00	RT	MES	1																										1							25					
F																																											
P	S-119A	140+69.47	LT	INLET, PIPE	1	131											1																									
F																																											
P	S-119B	140+49.67	RT	MES	1																										1							25					
F																																											
SUBTOTALS		PLAN QUANTITY				942					70						7	7					1							8			4				296					
		FINAL QUANTITY																																								

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 14

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER											
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"	SY	CY	CY	CY	LB	
P	S-120	142+50.00	LT	INLET, PIPE	1	94												1																			25					
F																																										
P	S-121	142+50.00	RT	INLET, PIPE	1	20												1																									
F																																										
P	S-122	142+50.00	RT	MES	1																									1								25					
F																																										
P	S-123	147+50.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-124	147+50.00	RT	INLET, PIPE	1	20												1																									
F																																										
P	S-125	147+44.87	RT	MES	1																									1								25					
F																																										
P	S-126	151+40.00	RT	INLET, PIPE	1	18											1																									
F																																										
P	S-127	151+40.00	RT	MES	1																									1								25					
F																																										
P	S-127A	31+14.21	RT	INLET, PIPE	1	25																		1														6					18l h
F																																										
P	S-127B	31+14.21	LT	INLET, PIPE	1	14																		1														6					18l h
F																																										
P	S-127C	31+00.00	LT	MES	1																									1								25					
F																																										
P	S-128	152+50.00	LT	INLET, PIPE	1	97												1																									
F																																										
P	S-129	152+75.00	RT	INLET, PIPE	1	18											1																									
F																																										
P	S-130	152+75.00	RT	MES	1																									1								25					
F																																										
P	S-131	157+75.00	LT	INLET, PIPE	1	94											1																									
F																																										
P	S-132	157+75.00	RT	INLET, PIPE	1	18											1																									
F																																										
P	S-133	157+75.00	RT	MES	1																									1								25					
F																																										
P	S-134	159+13.54	RT	INLET, PIPE	1	19											1																									
F																																										
P	S-135	159+13.54	RT	MES	1																									1								25					
F																																										
P	S-136	160+50.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-137	160+50.00	RT	INLET, PIPE	1	21												1																									
F																																										
P	S-138	160+50.00	RT	MES	1																									1								25					
F																																										
P	S-139	165+50.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-140	165+50.00	RT	INLET, PIPE	1	14												1																									
F																																										
P	S-141	165+50.00	RT	MES	1																									1								25					
F																																										
P	S-142	167+00.00	LT	INLET, PIPE	1	147												1																									
F																																										
P	S-143	171+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
SUBTOTALS				PLAN QUANTITY		995											6	10					2							9								237					
				FINAL QUANTITY																																							

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEDRAZA FRANKENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 15

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER										
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"						
																																						SY	CY	CY	CY	LB	
P	S-144	171+00.00	RT	INLET, PIPE	1	21												1																									
F																																										
P	S-145	171+00.00	RT	MES	1																									1								25					
F																																										
P	S-146	172+60.00	LT	INLET, PIPE	1	94											1																									
F																																										
P	S-147	172+60.00	RT	INLET, PIPE	1	19											1																									
F																																										
P	S-148	172+60.00	RT	MES	1																									1								25					
F																																										
P	S-149	176+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-150	176+00.00	RT	INLET, PIPE	1	29												1																									
F																																										
P	S-151	175+75.17	RT	MES	1																									1								25					
F																																										
P	S-152	181+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-153	181+00.00	RT	INLET, PIPE	1	19												1																									
F																																										
P	S-154	181+00.00	RT	MES	1																									1								25					
F																																										
P	S-155	186+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-156	186+00.00	RT	INLET, PIPE	1	20												1																									
F																																										
P	S-157	186+00.00	RT	MES	1																									1								25					
F																																										
P	S-158	187+92.40	LT	INLET, PIPE	1	94											1																									
F																																										
P	S-159	187+92.40	RT	INLET, PIPE	1	18											1																									
F																																										
P	S-160	187+92.40	RT	MES	1																									1								25					
F																																										
P	S-161	191+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-162	191+00.00	RT	INLET, PIPE	1	23												1																									
F																																										
P	S-163	191+14.53	RT	MES	1																									1								25					
F																																										
P	S-164	194+30.00	RT	INLET, PIPE	1	14											1																									
F																																										
P	S-165	194+30.00	RT	MES	1																									1								25					
F																																										
P	S-166	196+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-167	196+00.00	RT	INLET, PIPE	1	21												1																									
F																																										
P	S-168	196+00.00	RT	MES	1																									1								25					
F																																										
P	S-169	201+00.00	LT	INLET, PIPE	1	94												1																									
F																																										
P	S-170	201+00.00	RT	INLET, PIPE	1	14												1																									
F																																										
SUBTOTALS				PLAN QUANTITY		950											5	13												9								225					
				FINAL QUANTITY																																							

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINNEY HARTSFIELD & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 16

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND		OTHER												
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"	30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"		SY	CY	CY	CY	LB	
P	S-171	201+00.00	RT	MES	1																								1								25					
F																																											
P	S-172	206+00.00	LT	INLET, PIPE	1	94												1																									
F																																											
P	S-173	206+00.00	RT	INLET, PIPE	1	14												1																									
F																																											
P	S-174	206+00.00	RT	MES	1																								1								25					
F																																											
P	S-175	209+73.58	RT	INLET, PIPE	1	19											1																									
F																																											
P	S-176	209+73.58	RT	MES	1																								1								25					
F																																											
P	S-177	211+00.00	LT	INLET, PIPE	1	94												1																									
F																																											
P	S-178	211+00.00	RT	INLET, PIPE	1	21												1																									
F																																											
P	S-179	211+00.00	RT	MES	1																								1								25					
F																																											
P	S-180	215+53.45	LT	INLET, PIPE	1	104											1																									
F																																											
P	S-181	216+00.00	RT	INLET, PIPE	1	21												1																									
F																																											
P	S-182	216+00.00	RT	MES	1																								1								25					
F																																											
P	S-183	216+82.82	LT	INLET, PIPE	1	126											1																									
F																																											
P	S-184	221+00.00	LT	INLET, PIPE	1	89												1																									
F																																											
P	S-185	221+00.00	RT	INLET, PIPE	1	21												1																									
F																																											
P	S-186	221+00.00	RT	MES	1																								1								25					
F																																											
P	S-187	226+00.00	LT	INLET, PIPE	1	77												1																									
F																																											
P	S-188	226+00.00	RT	INLET, PIPE	1	21												1																									
F																																											
P	S-189	226+00.00	RT	MES	1																								1								25					
F																																											
P	S-190	227+40.00	LT	INLET, PIPE	1	75											1																									
F																																											
P	S-191	227+40.00	RT	INLET, PIPE	1	19											1																									
F																																											
P	S-192	227+40.00	RT	MES	1																								1								25					
F																																											
P	S-300	136+25.69	LT	MANHOLE, PIPE	1			151											1																									
F																																											
P	S-301	28+93.00	RT	INLET, PIPE	1								49											1															7					Leon.
F																																											
P	S-302	28+93.00	LT	INLET, PIPE	1								49											1															7					Leon.
F																																											
P	S-303	136+92.50	LT	MANHOLE, PIPE	1		64												1																									
F																																											
P	S-304	139+04.84	LT	INLET, PIPE	1	209																		1																			
F																																											
SUBTOTALS				PLAN QUANTITY		1004	64	151					98				5	9	2					2	1					8								214					
				FINAL QUANTITY																																							

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 17

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS						MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND		OTHER											
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"	SY	CY	CY	CY	LB	
P	S-304A	141+34.46	LT	INLET, PIPE	1		313																	1																
F																																									
P	S-305	144+50.00	LT	MANHOLE, PIPE	1		377													1																						
F																																									
P	S-306	148+30.00	LT	MANHOLE, PIPE	1		315													1																						
F																																									
P	S-307	151+48.43	LT	MANHOLE, PIPE	1		398													1																						
F																																									
P	S-307A	29+00.00	RT	INLET, PIPE	1	42																	1														6				181 h
F																																									
P	S-307B	29+00.00	LT	INLET, PIPE	1	53																	1														6				181 h
F																																									
P	S-308	155+50.00	LT	MANHOLE, PIPE	1		346													1																						
F																																									
P	S-309	159+00.00	LT	INLET, PIPE	1		197																	1																		
F																																									
P	S-309A	161+00.00	LT	INLET, PIPE	1		142																	1																		
F																																									
P	S-310	162+46.30	LT	MANHOLE, PIPE	1				141													1																				
F																																									
P	S-311	28+41.58	RT	INLET, PIPE	1			32																			1										7				151 h
F																																									
P	S-312	28+38.62	LT	INLET, PIPE	1			111																			1										7				151 h
F																																									
P	S-313	164+10.00	LT/RT	BOX CULVERT	4																																		672.2	154374	
F																																									
P	S-315	166+17.50	LT	MANHOLE, PIPE	1				188													1																				
F																																									
P	S-315A	166+91.00	LT	INLET, PIPE	1				70															1																		
F																																									
P	S-316	28+61.53	RT	INLET, PIPE	1		91																		1												7				141 h
F																																									
P	S-317	28+58.47	LT	INLET, PIPE	1		34																		1												7				141 h
F																																									
P	S-318	168+90.00	LT	INLET, PIPE	1			196																			1														
F																																									
P	S-318A	171+20.00	LT	INLET, PIPE	1			227																		1														
F																																									
P	S-319	171+69.49	LT	MANHOLE, PIPE	1			46												1																						
F																																									
P	S-319A	172+85.00	LT	INLET, PIPE	1		113																1																		
F																																									
P	S-320	29+00.00	RT	INLET, PIPE	1	53																	1														6				131 h
F																																									
P	S-321	29+00.00	LT	INLET, PIPE	1	37																	1														6				131 h
F																																									
P	S-322	175+45.00	LT	INLET, PIPE	1		258																1																		
F																																									
P	S-322A	178+00.00	LT	INLET, PIPE	1		253																1																		
F																																									
P	S-323	180+50.00	LT	INLET, PIPE	1		248																1																		
F																																									
P	S-324	183+15.00	LT	INLET, PIPE	1		263																1																		
F																																									
SUBTOTALS		PLAN QUANTITY				185	3348	612	399										5		2	4	5	2	5	1	2										52			672.2	154374	
		FINAL QUANTITY																																							

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINNEY DAVIDSON & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 18

SUSETS

09/13/2005 07:35:38 AM P:\99012.201\cadd\roadway\sumdrn01.dgn

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER												
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"							
																																						SY	CY	CY	CY	LB	
P	S-324A	185+50.00	LT	INLET, PIPE	1		233																	1																			
F																																											
P	S-325	187+03.65	LT	MANHOLE, PIPE	1		151													1																								
F																																											
P	S-326	29+00.00	RT	INLET, PIPE	1	53																	1																6				81 h
F																																											
P	S-327	29+00.00	LT	INLET, PIPE	1	46																	1																6				81 h
F																																											
P	S-328	189+50.00	LT	INLET, PIPE	1	244																		1																			
F																																											
P	S-329	192+20.00	LT	MANHOLE, PIPE	1	268													1																								
F																																											
P	S-330	28+80.00	RT	INLET, PIPE	1	73																	1																6				71 h
F																																											
P	S-331	28+80.00	LT	INLET, PIPE	1	73																	1																6				71 h
F																																											
P	S-332	192+56.00	LT	MANHOLE, PIPE	1	212														1																								
F																																											
P	S-333	194+70.00	LT	INLET, PIPE	1	213																		1																			
F																																											
P	S-334	196+85.00	LT	INLET, PIPE	1	183																		1																			
F																																											
P	S-335	198+70.00	LT	INLET, PIPE	1			238																		1																	
F																																											
P	S-335A	201+10.67	LT	MANHOLE, PIPE	1			186												1																								
F																																											
P	S-336	203+00.00	LT	INLET, PIPE	1			277																		1																	
F																																											
P	S-337	205+80.00	LT	INLET, PIPE	1			337																		1																	
F																																											
P	S-338	209+20.00	LT	INLET, PIPE	1			337																		1																	
F																																											
P	S-339	212+60.00	LT	INLET, PIPE	1			332																		1																	
F																																											
P	S-340	215+96.25	LT	MANHOLE, PIPE	1				208														1																				
F																																											
P	S-341	28+61.68	RT	INLET, PIPE	1				92																1															7				Doug
F																																											
P	S-342	28+58.36	LT	INLET, PIPE	1		35																		1															7				Doug
F																																											
P	S-343A	218+15.71	LT	ENDWALL, PIPE	2											36																							91		13.7		824	
F																																											
P	S-343B	218+13.87	LT	MANHOLE, PIPE	2											252						1																					
F																																											
P	S-343C	218+01.97	RT	ENDWALL	2																																	91		13.7		824	
F																																											
P	S-345	220+50.00	LT	INLET, PIPE	1		228																	1																			
F																																											
P	S-346	223+43.50	LT	MANHOLE, PIPE	1		291														1																							
F																																											
P	S-347	28+81.43	RT	INLET, PIPE	1	73																	1																6				3rd W.
F																																											
P	S-348	28+78.59	LT	INLET, PIPE	1	37																	1																6				3rd W.
F																																											
SUBTOTALS		PLAN QUANTITY				1475	938	1707	300							288			1	4		2	6	5	2	5													232		27.4		1648	
		FINAL QUANTITY																																									

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIZZUTO PIZZUTO & ASSOC. 1951
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 19

$USERS

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER											
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"						
																																						SY	CY	CY	CY	LB	
P	S-349	225+25.00	LT	INLET, PIPE	1	179																	1																			
F																																										
P	S-350	226+64.00	LT	MANHOLE, PIPE	1	137														1																							
F																																										
P	S-351	28+81.43	RT	INLET, PIPE	1	73																	1																6				41 h
F																																										
P	S-352	28+78.80	LT	INLET, PIPE	1	37																	1																6				41 h
F																																										
P	S-400	1717+13.72	RT	MES, PIPE	2							136																						2				32				
F																																										
P	S-401	128+91.08	RT	MES	2																													2				32				
F																																										
P	S-402	134+41.57	RT	MES, PIPE	2							114																						2				32				
F																																										
P	S-403	135+14.56	RT	MES	2																													2				32				
F																																										
P	CS-1	30+96.00	RT	INLET, PIPE	1			32																				1														23rd
F																																										
P	CS-1A	30+95.10	RT	MANHOLE, PIPE	1										300						1																					23rd
F																																										
P	CS-1B	34+00.00	RT	MANHOLE, PIPE	1										280						1																					23rd
F																																										
P	CS-1C	36+85.98	RT	MANHOLE	1																1																					23rd
F																																										
P	CS-1D	36+88.39	LT	ENDWALL, PIPE	1					72																													126	1.71			23rd
F																																										
P	CS-1E	36+85.22	RT	ENDWALL, PIPE	1					20																													126	1.71			23rd
F																																										
P	CS-2	30+95.10	LT	INLET, PIPE	1				88																3																	23rd
F																																										
P	S-404	140+55.89	RT	MES, PIPE	2							114																						2				32				
F																																										
P	S-405	141+28.89	RT	MES	2																													2				32				
F																																										
P	S-406	30+93.00	RT	MES, PIPE	2							108																						2				32				21st
F																																										
P	S-407	30+93.00	LT	MES	2																													2				32				21st
F																																										
P	S-408	147+47.15	RT	MES, PIPE	2							114																						2				32				
F																																										
P	S-409	148+20.15	RT	MES	2																													2				32				
F																																										
P	S-410	154+38.61	RT	MES, PIPE	2						116																						2				28				
F																																										
P	S-411	155+08.41	RT	MES	2																												2				28				
F																																										
P	S-412	30+93.00	RT	MES, PIPE	2							108																						2				32				16th
F																																										
P	S-413	30+93.00	LT	MES	2																													2				32				16th
F																																										
P	S-414	162+10.20	RT	MES, PIPE	2							114																						2				32				
F																																										
P	S-415	162+83.20	RT	MES	2																													2				32				
F																																										
SUBTOTALS		PLAN QUANTITY				426		32	88	92	116	808			580					1	3		2	1		3			1				4	28			7682	3.42			
		FINAL QUANTITY																																								

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINNEY-HARTMANN & ASSOC. INC.
ENGINEERS
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 20

$USER$ 09/13/2005 07:35:38 AM P:\99012.201\cadd\roadway\sumdrn01.dgn

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS							SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER										
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"	SY	CY	CY	CY	LB	
P	CS-3	163+30.19	RT	INLET, PIPE	1			4																2																	
F																																										
P	CS3A	163+68.95	RT	MES, PIPE	1			22																							1						26					
F																																										
P	CS-4	164+97.52	RT	INLET, PIPE	1			4																2																	
F																																										
P	CS-4A	164+37.29	RT	MES, PIPE	1			44																							1						26					
F																																										
P	S-416	168+85.53	RT	MES, PIPE	2							114																					2					32					
F																																										
P	S-417	169+58.53	RT	MES	2																												2					32					
F																																										
P	S-418	30+93.00	RT	MES, PIPE	2							108																					2					32					131 h
F																																										
P	S-419	30+93.00	LT	MES	2																												2					32					131 h
F																																										
P	S-420	175+77.13	RT	MES, PIPE	2						116																							2				28					
F																																										
P	S-421	176+46.93	RT	MES	2																												2					28					
F																																										
P	S-422	30+93.00	RT	MES, PIPE	2						116																							2					28					101 h
F																																										
P	S-423	30+93.00	LT	MES	2																												2					28					101 h
F																																										
P	S-424	182+66.27	RT	MES, PIPE	2							114																					2					32					
F																																										
P	S-425	183+39.27	RT	MES	2																												2					32					
F																																										
P	CS-5	30+92.98	RT	INLET, PIPE	1				44																			1														81 h
F																																										
P	CS-5A	30+92.98	LT	MANHOLE, PIPE	1										456						1																					81 h
F																																										
P	CS-5B	35+54.00	LT	MANHOLE, PIPE	1										432							1																					81 h
F																																										
P	CS-5C	39+92.00	LT	MANHOLE, PIPE	1										12							1																					81 h
F																																										
P	CS-5D	40+11.44	LT	MES	1																																1	38					81 h
F																																										
P	CS-6	30+92.98	LT	INLET, PIPE	1				28																3																	81 h
F																																										
P	S-426	190+35.14	RT	MES, PIPE	2								114																					2				36					
F																																										
P	S-427	191+12.14	RT	MES	2																													2				36					
F																																										
P	S-428	30+93.00	RT	MES, PIPE	2							108																					2				32					61 h
F																																										
P	S-429	30+93.00	LT	MES	2																												2				32					61 h
F																																										
P	S-430	197+26.68	RT	MES, PIPE	2							114																					2				32					
F																																										
P	S-431	197+99.68	RT	MES	2																												2				32					
F																																										
P	S-432	204+98.29	RT	MES, PIPE	2						114																						2				28					
F																																										
SUBTOTALS		PLAN QUANTITY						74	72		346	558	114		900						1	2			7			1				2	10	20	4		1	622					
		FINAL QUANTITY																																								

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREVATT HARTSFIELD & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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EB-4464
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 21

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND		OTHER												
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"		SY	CY	CY	CY	LB	
P	S-433	205+67.29	RT	MES	2																											2						28					
F																																											
P	S-434	30+93.00	RT	MES, PIPE	2							108																						2					32					1st
F																																											
P	S-435	30+93.00	LT	MES	2																												2					32					1st
F																																											
P	S-435A	222+07.11	RT	MES, PIPE	2							114																						2					32					
F																																											
P	S-435B	222+80.01	RT	MES	2																												2					32					
F																																											
P	CS-7	217+24.35	RT	INLET, PIPE	1			4																	2																		
F																																											
P	CS-7A	217+89.06	RT	MES, PIPE	1			48																									1					26					
F																																											
P	CS-8	218+73.20	RT	INLET, PIPE	1			51																	1																		
F																																											
P	CS-8A	218+13.10	RT	MES	1																												1					26					
F																																											
P	S-436	30+91.13	RT	MES, PIPE	2							108																						2					32					3rd W.
F																																											
P	S-437	30+85.25	LT	MES	2																												2					32					3rd W.
F																																											
P	S-438	30+98.70	RT	MES, PIPE	2						162																						2					28					41h
F																																											
P	S-439	30+90.09	LT	MES	2																												2					28					41h
F																																											
P	S-440	36+60.00	RT	ENDWALL, PIPE	1					48																												126	11.7				24th
F																																											
P	S-441	36+60.00	LT	ENDWALL	1																																	126	11.7				24th
F																																											
P	S-442	41+98.21	RT	MES, PIPE	1									32																							1		28					3rd W.
F																																											
P	S-443	41+98.21	LT	MES	1																															1		28					3rd W.
F																																											
P	S-444	32+64.00	RT	INLET, PIPE	1		64																	1														6					27th
F																																											
P	S-445	32+64.00	LT	INLET	1																			1														6					27th
F																																											
P	S-446	29+01.00	RT	MES, PIPE	1							54																							1				27					26th
F																																											
P	S-447	29+01.00	LT	MES	1																			1														6					26th
F																																											
P	S-448	27+60.00	RT	INLET, PIPE	1	68																		1														6					18th
F																																											
P	S-449	27+60.00	LT	INLET	1																			1														6					18th
F																																											
P	S-450	27+60.00	RT	INLET, PIPE	1		68																	1														6					13th
F																																											
P	S-451	27+60.00	LT	INLET	1																			1														6					13th
F																																											
P	S-452	27+60.00	RT	INLET, PIPE	1	64																		1														6					8th
F																																											
P	S-453	27+60.00	LT	INLET	1																			1														6					8th
SUBTOTALS				PLAN QUANTITY		132	132	103		48	162	384		32									8			3						2	6	14		2		738	23.4				
				FINAL QUANTITY																																								

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTMEISTER & ASSOC. INC.
ENGINEERS
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12701 World Plaza Lane
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(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 22

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL TYPE										CROSS DRAIN	CURB INLETS		MANHOLES				DITCH BOTTOM INLETS							MITERED END SECTIONS								SOD	CLASS I CONC.	CLASS II CONC.	CLASS IV CONC.	REINF. STEEL	REMARKS
						ROUND					OTHER					ROUND	P-5	P-6	P-7	P-8	J-7	J-8	C	C MOD	E	E MOD	E MOD	G	H MOD	ROUND			OTHER											
						18"	24"	30"	36"	54"	18"	24"	30"	36"	48"	60"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	18"		30"	14"x23"	19"x30"	24"x38"	29"x45"	38"x60"							
																																						SY	CY	CY	CY	LB	
P	S-454	27+60.00	RT	MES, PIPE	1						54																					1						24					3rd
F																																										
P	S-455	27+60.00	LT	MES	1																											1						24					3rd
SUBTOTALS				PLAN QUANTITY							54																					2						48					
				FINAL QUANTITY																																								
TOTALS				PLAN QUANTITY		6109	4482	2679	859	140	748	1848	114	32	1480	288	23	39	3	10	4	6	23	11	6	24	1	2	2	34		4	26	62	4	2	1	3432	46.82	27.4	672.2	156022	
				FINAL QUANTITY																																							

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEPPER HAMILTON & SCHEETZ INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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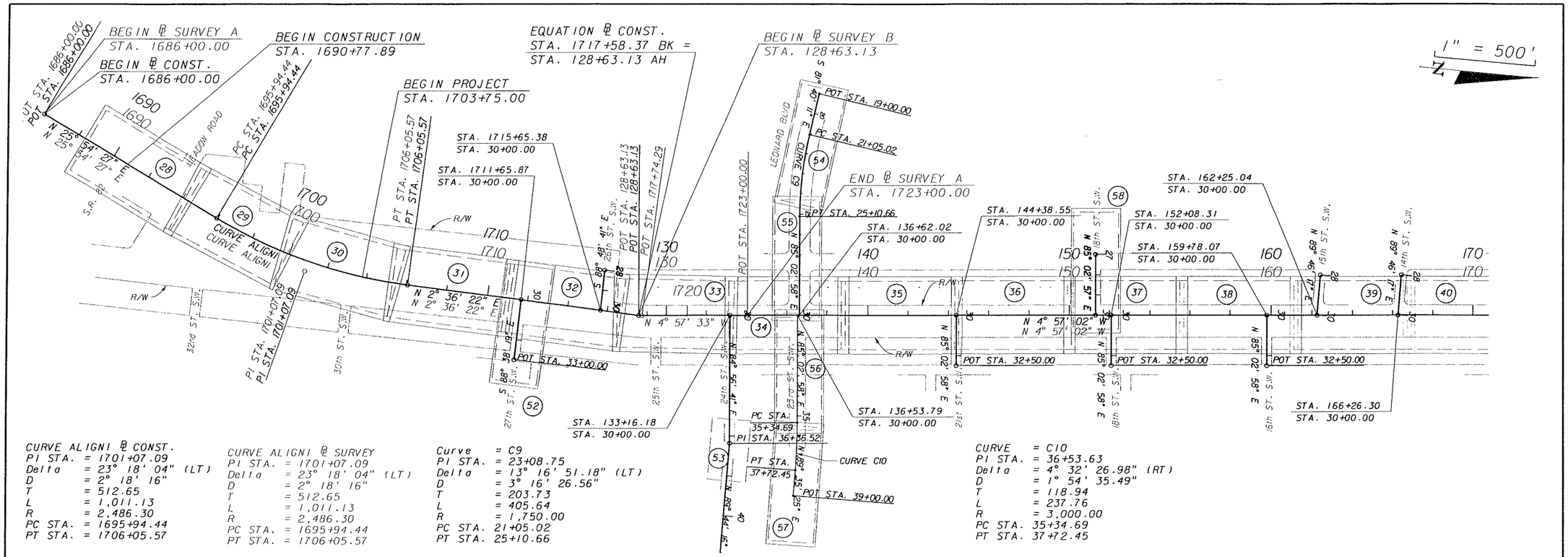
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 23

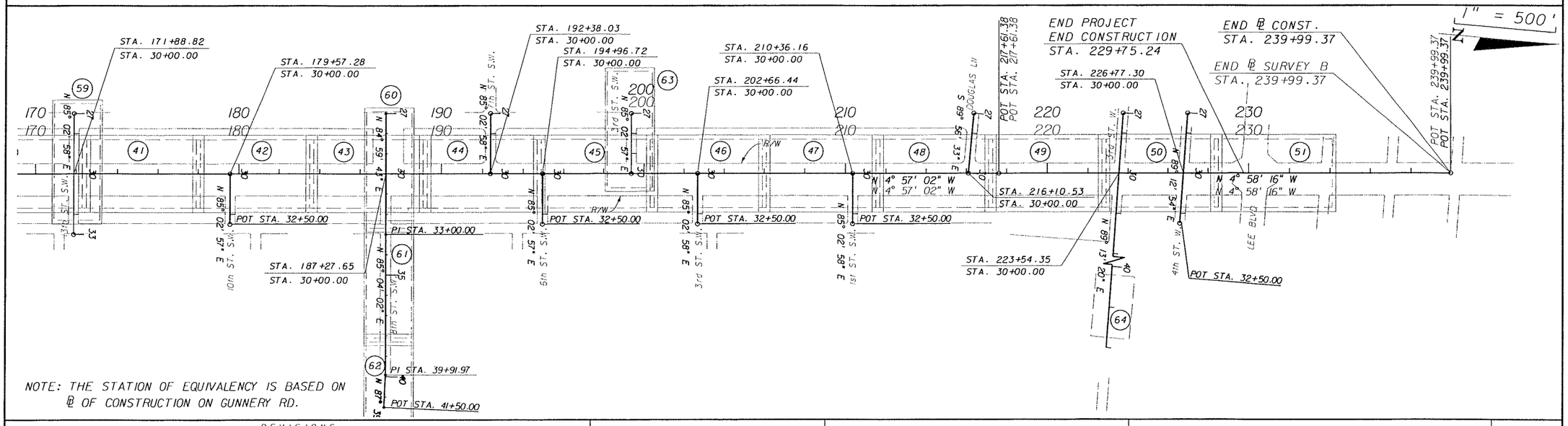


CURVE ALIGNI ℄ CONST.
PI STA. = 1701+07.09
Delta = 23° 18' 04" (LT)
D = 2° 18' 16"
T = 512.65
L = 1,011.13
R = 2,486.30
PC STA. = 1695+94.44
PT STA. = 1706+05.57

CURVE ALIGNI ℄ SURVEY
PI STA. = 1701+07.09
Delta = 23° 18' 04" (LT)
D = 2° 18' 16"
T = 512.65
L = 1,011.13
R = 2,486.30
PC STA. = 1695+94.44
PT STA. = 1706+05.57

Curve = C9
PI STA. = 23+08.75
Delta = 13° 16' 51.18" (LT)
D = 3° 16' 26.56"
T = 203.73
L = 405.64
R = 1,750.00
PC STA. 21+05.02
PT STA. 25+10.66

CURVE = C10
PI STA. = 36+53.63
Delta = 4° 32' 26.98" (RT)
D = 1° 54' 35.49"
T = 118.94
L = 237.76
R = 3,000.00
PC STA. 35+34.69
PT STA. 37+72.45



NOTE: THE STATION OF EQUIVALENCY IS BASED ON ℄ OF CONSTRUCTION ON GUNNERY RD.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTSFIELD & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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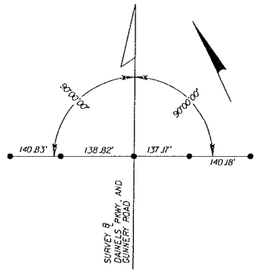
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

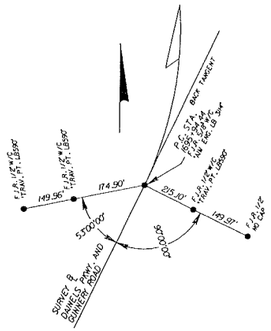
PROJECT LAYOUT

SHEET NO. 24

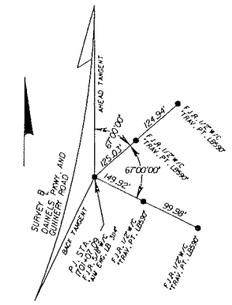
09/13/2005 07:35:40 AM P:\99012.201\cadd\roadway\playrd01.dgn



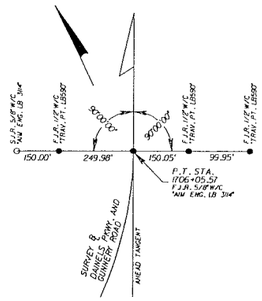
B.O.S. STA. 1686+00.00
SURVEY BASELINE DANIELS
PARKWAY AND GUNNERY ROAD



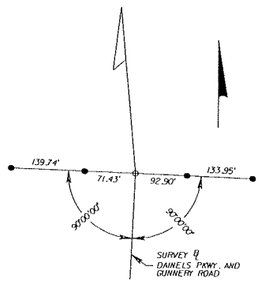
P.C. STA. 1695+94.44
SURVEY BASELINE DANIELS
PARKWAY AND GUNNERY ROAD



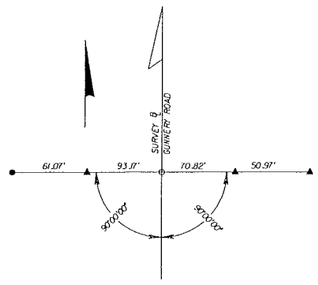
P.I. STA. 1701+07.09
SURVEY BASELINE DANIELS
PARKWAY AND GUNNERY ROAD



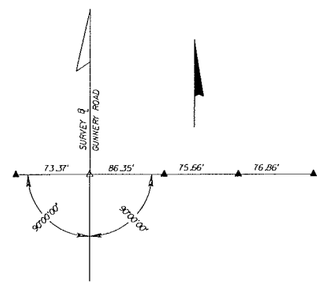
P.T. STA. 1706+05.57
SURVEY BASELINE DANIELS
PARKWAY AND GUNNERY ROAD



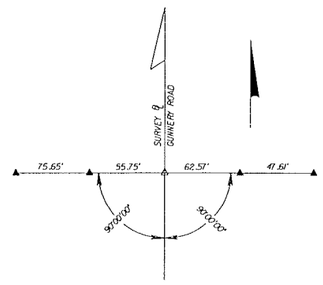
STATION EQUATION
P.I. STA. 1717+58.37 BK. SURVEY BASELINE
DANIELS PARKWAY AND GUNNERY RD. =
P.I. STA. 128+63.13 AHD. SURVEY BASELINE GUNNERY RD.
(NO CURVE)



P.O.T. STATION 129+99.84
SURVEY BASELINE GUNNERY RD.



P.O.T. STATION 139+99.74
SURVEY BASELINE GUNNERY RD.



P.O.T. STATION 149+99.71
SURVEY BASELINE GUNNERY RD.

LEGEND

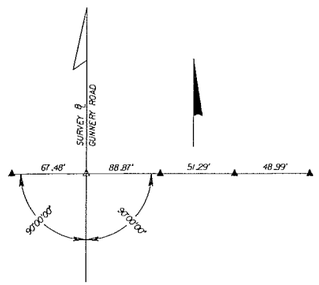
DENOTES SURVEY BASE LINE

● DENOTES SET 5/8" IRON ROD WITH CAP, "AIM ENG LB 3114" (UNLESS OTHERWISE NOTED)

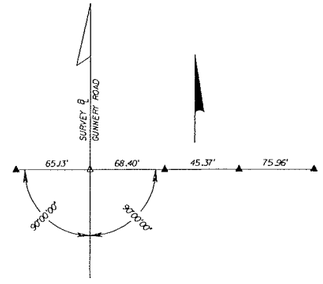
○ DENOTES SET P.K. NAIL & DISK "AIM ENG LB 3114" (UNLESS OTHERWISE NOTED)

▲ DENOTES FOUND 5/8" IRON ROD WITH CAP, "LS 2995" (UNLESS OTHERWISE NOTED)

△ DENOTES FOUND P.K. NAIL & DISK "LS 2995" (UNLESS OTHERWISE NOTED)



P.O.T. STATION 159+99.63
SURVEY BASELINE GUNNERY RD.



P.O.T. STATION 169+99.58
SURVEY BASELINE GUNNERY RD.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

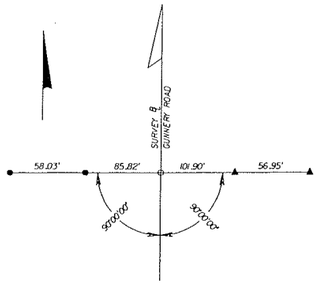
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

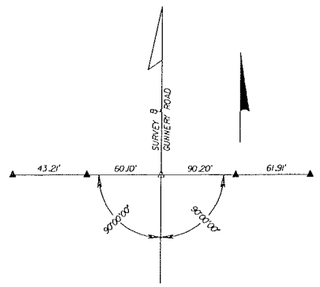
SURVEY REFERENCE POINTS

SHEET NO. 25

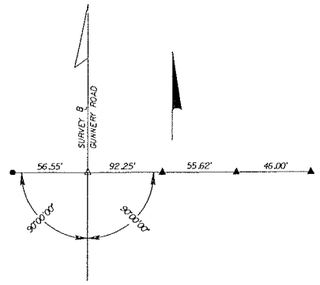
09/13/2005 07:35:45 AM P:\99012.201\cadd\roadway\playrd02.dgn



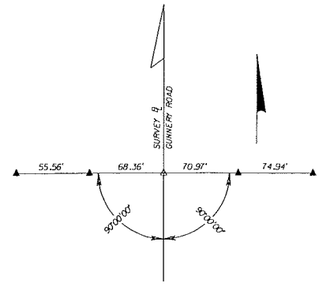
P.O.T. STATION 179+99.52
SURVEY BASELINE GUNNERY RD.



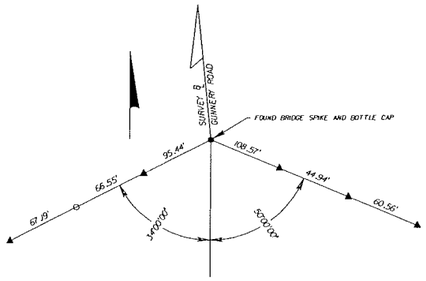
P.O.T. STATION 189+99.48
SURVEY BASELINE GUNNERY RD.



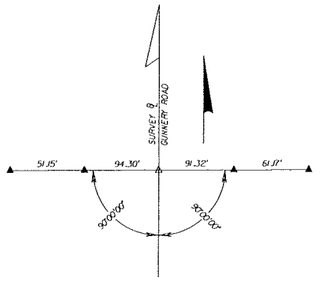
P.O.T. STATION 199+99.41
SURVEY BASELINE GUNNERY RD.



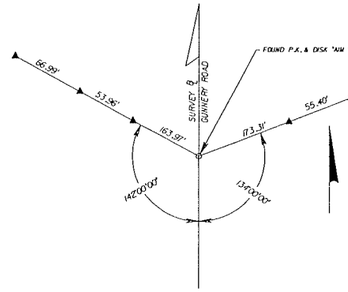
P.O.T. STATION 209+99.33
SURVEY BASELINE GUNNERY RD.



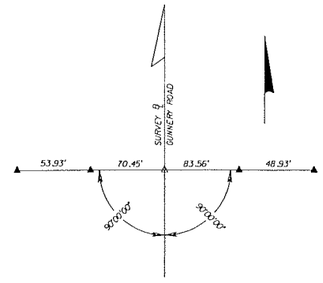
P.I. STATION 217+61.38
SURVEY BASELINE GUNNERY RD.



P.O.T. STATION 219+99.32
SURVEY BASELINE GUNNERY RD.



STATION EQUATION
P.O.T. STA. 285+93.70 LEE BLVD. =
P.O.T. STA. 230+28.50 GUNNERY ROAD



E.O.S. STATION 239+99.37
SURVEY BASELINE GUNNERY RD.

LEGEND

- DENOTES SURVEY BASE LINE
- ● DENOTES SET 5/8" IRON ROD WITH CAP. "AW ENG LB 3114" (UNLESS OTHERWISE NOTED)
- ○ DENOTES SET P.K. NAIL & DISK "AW ENG LB 3114" (UNLESS OTHERWISE NOTED)
- ▲ DENOTES FOUND 5/8" IRON ROD WITH CAP. "LS 2995" (UNLESS OTHERWISE NOTED)
- △ DENOTES FOUND P.K. NAIL & DISK "LS 2995" (UNLESS OTHERWISE NOTED)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEDERSEN, ANTOSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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(239) 936-6466
George R. Brinson, P.E. #47607

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SURVEY REFERENCE POINTS

SHEET NO. 26

09/13/2005 07:35:47 AM P:\99012.201\cadd\roadway\plan\rd02.dgn

GENERAL NOTES:

1. BM DATUM IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD '29).

2. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.

3. ALL EXISTING TRAFFIC SEPARATORS AND CURB & GUTTER IN THE MEDIAN ARE TO BE REMOVED UNLESS OTHERWISE NOTED.

4. DRAINAGE DITCHES SHOWN IN THE PLAN VIEW ARE STRICTLY FOR VISUAL PURPOSE. REFER TO CROSS SECTIONS AND THE PROFILE FOR LOCATION AND DIMENSIONS.

5. ANY MAILBOXES REMOVED DURING CONSTRUCTION SHALL BE REPLACED.

6. MAIL SERVICE SHALL NOT BE DISRUPTED DURING CONSTRUCTION.

7. ALL DRAINAGE PIPE SHALL BE STEEL REINFORCED CONCRETE PIPE. NO SUBSTITUTIONS WILL BE ALLOWED.

8. EXCAVATION NEAR FPL FACILITIES:
   WHEN EXCAVATING IN THE VICINITY OF FPL FACILITIES (POLES, ANCHORS, UNDERGROUND CABLES, CONDUITS, ETC.), THE CONTRACTOR SHOULD EMPLOY THE CONSTRUCTION TECHNIQUES (SHEETING, TRENCH BOX, ETC.) NECESSARY TO PROTECT FPL FACILITIES FROM DAMAGE OR DISPLACEMENT.

9. EXCAVATION NEAR LCEC FACILITIES:
   THE CONTRACTOR SHALL CONTACT LCEC TO COORDINATE CONSTRUCTION NEAR LCEC FACILITIES. IF THE EDGE OF THE TRENCH IS LESS THAN SEVEN BUT MORE THAN FOUR FEET LATERALLY FROM THE EDGE OF THE LCEC POLES, THEN THE TRENCH SHALL BE BACKFILLED AND COMPACTED WITHIN 24 HOURS OF THE INITIAL OPENING AND THE POLES WILL BE TEMPORARILY HELD AGAINST LEANING INTO THE OPEN TRENCH AND EXPECTED WIND CONDITIONS DO NOT EXCEED 25 MPH, UNLESS THE TRENCH IS SHORED. A LCEC SITE INSPECTOR SHALL BE PRESENT ON A DAILY BASIS TO WITNESS THE CONSTRUCTION. THE MINIMUM ALLOWABLE LATERAL SEPARATION BETWEEN THE EDGE OF A TRENCH AND A POLE IS FOUR FEET.

LIGHTING AND TRAFFIC SIGNAL INTERCONNECT CONDUIT NOTES:

1. ALL CONDUITS FOR FUTURE STREET LIGHTS AND TRAFFIC SIGNAL INTERCONNECT SHALL BE INSTALLED AT A DEPTH OF THIRTY-SIX (36) INCHES.

2. FUTURE STREET LIGHTING BASE 30" DIAMETER. NEED CLEARANCE ON EAST AND WEST SIDE.

3. INSTALL PULL BOXES FOR FUTURE INTERCONNECT AT 500' SPACING AND AT EACH SIGNAL CABINET.

4. PULL BOXES:

   A. PULL BOXES SHALL BE COMPOSITE CONSTRUCTION AND LOAD RATED 20,000 LBS. NO EXCEPTIONS WILL BE APPROVED.

   B. PULL BOX LIDS SHALL BE COMPOSITE CONSTRUCTION AND MARKED APPROPRIATELY, "TRAFFIC SIGNAL" OR "STREET LIGHTS".

   C. NO CONCRETE PULL BOXES SHALL BE ALLOWED.

   D. NO STEEL LIDS SHALL BE ALLOWED.

   E. PULL BOXES SHALL BE SIZED TO ACCOMMODATE MAXIMUM NUMBER OF PIPES ALLOWED PER NEC AND TO COMPLY WITH CABLE MANUFACTURE'S BEND RADIUS.

   F. MAXIMUM DISTANCE BETWEEN PULL BOXES ON LONG RUNS SHALL BE FIVE(5) HUNDRED(500) FEET.

   G. A PULL BOX WITH A MINIMUM COVER MEASUREMENT OF 24"x36"x24" SHALL BE USED ON INTERCONNECT. COVER SHALL BE MARKED "TRAFFIC SIGNAL".

   H. A PULL BOX WITH A MINIMUM COVER MEASUREMENT OF 17"x30"x12" SHALL BE USED ON TRAFFIC SIGNALS AND STREET LIGHTS. COVER SHALL BE MARKED "TRAFFIC SIGNAL" OR "STREET LIGHT".

5. PULL BOX INSTALLATION:

   A. PULL BOXES SHALL BE INSTALLED ON A BED OF GRAVEL WITH A MINIMUM DEPTH OF TWELVE (12) INCHES.

   B. GRAVEL SHALL BE INSTALLED INSIDE THE PULL BOX TO A LEVEL OF TWO (2) INCHES BELOW TOP OF CONDUITS.

   C. CONDUIT IN A PULL BOX SHALL BE NO HIGHER THAN HALF THE DEPTH OF THE PULL BOX.

6. AFTER CONDUITS AND PULL BOXES ARE INSTALLED, A #10 AWG COPPER WIRE SHALL BE INSTALLED FOR FUTURE LOCATING PURPOSES.

7. LIGHTING AND SIGNAL INTERCONNECT CONDUIT DESIGN AND QUANTITIES PREPARED BY LEE COUNTY DOT TRAFFIC DIVISION.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PALMER-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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George R. Brinson, P.E. #47607

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

GENERAL NOTES

SHEET NO. 27

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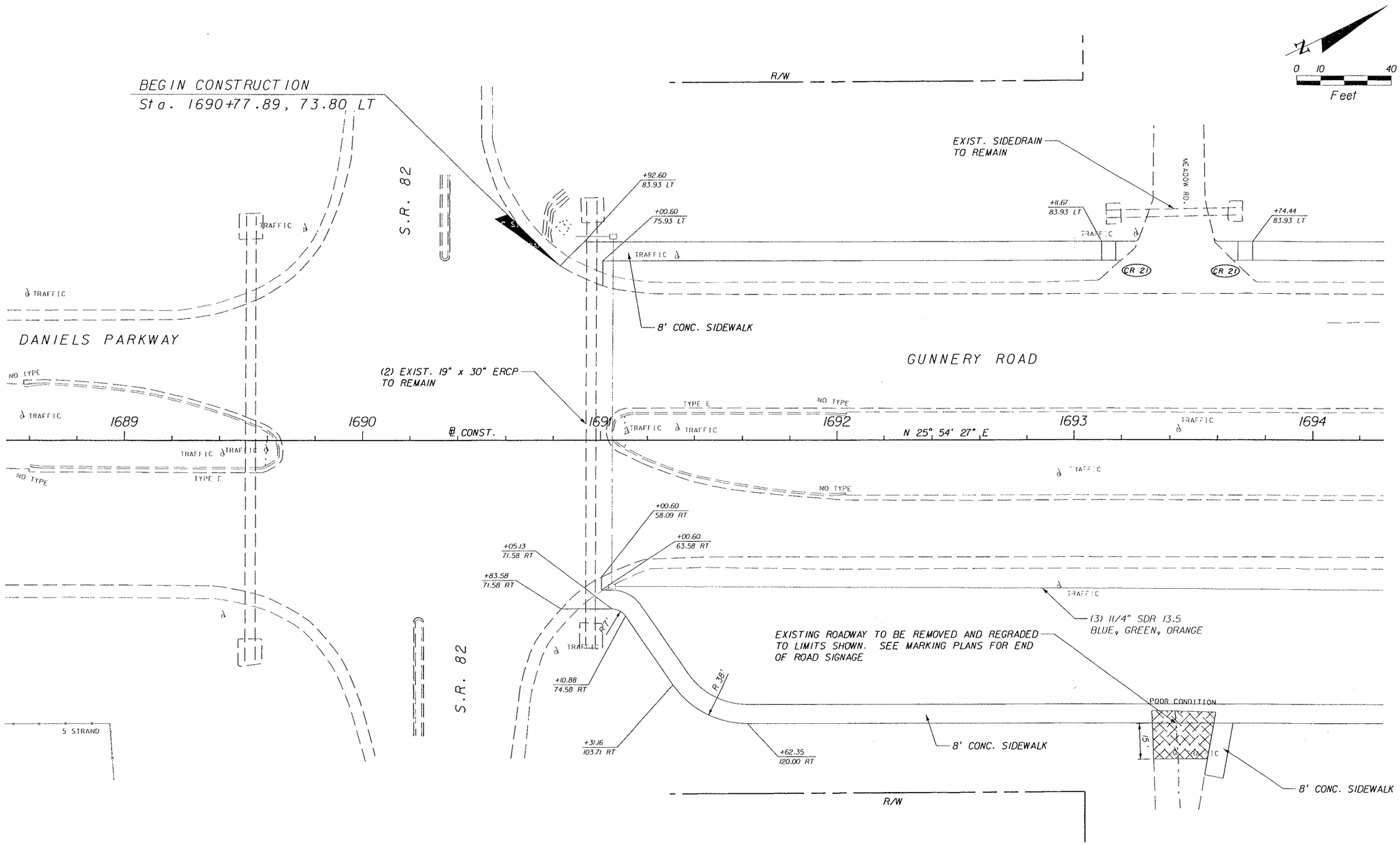

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
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George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 28

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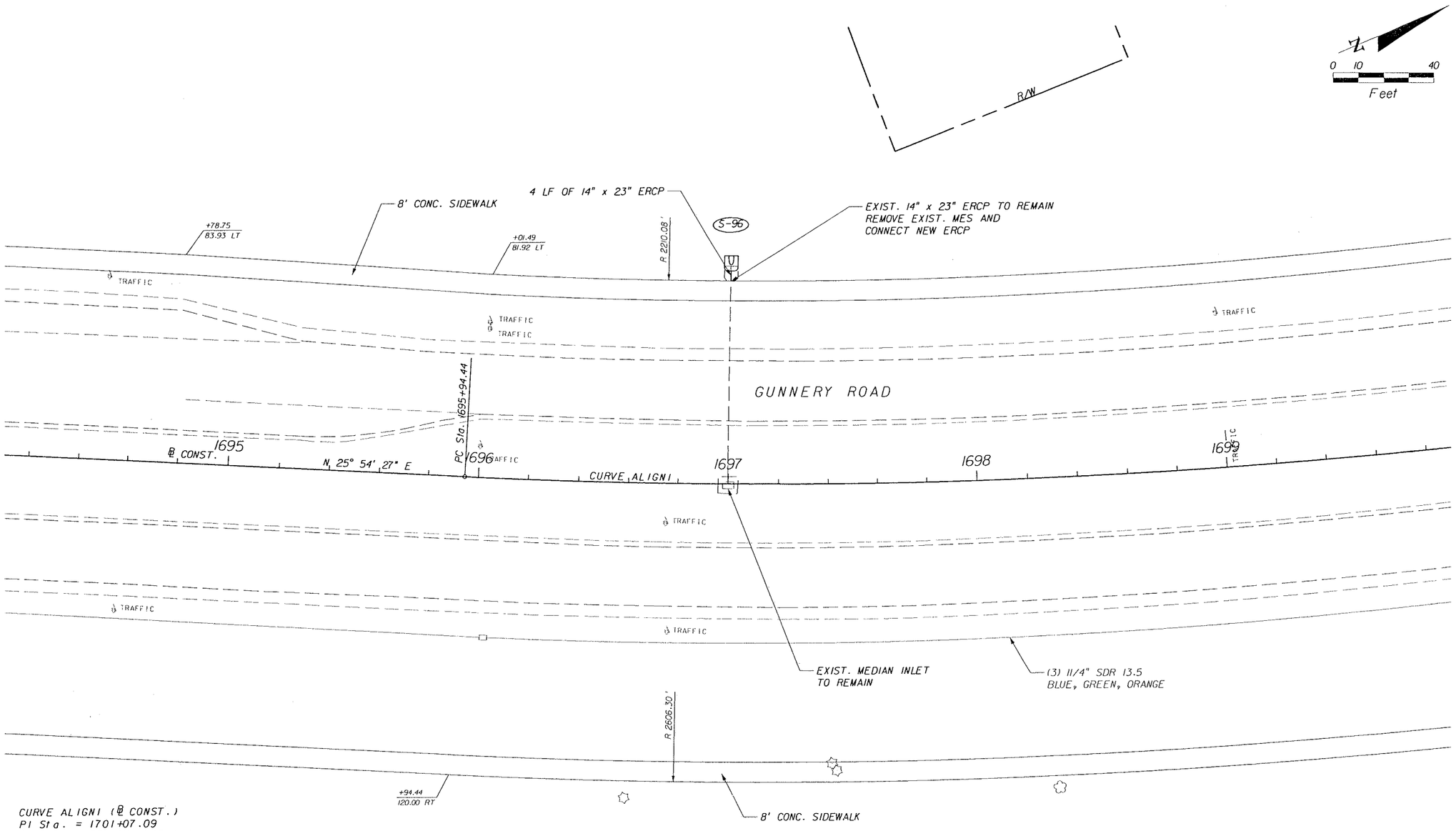

CURVE ALIGNI (℄ CONST.)
PI Sta. = 1701+07.09
Delta = 23° 18' 04" (LT)
D = 2° 18' 16"
T = 512.65
L = 1,011.13
R = 2,486.30
PC Sta. = 1695+94.44
PT Sta. = 1706+05.57

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466
George R. Brinson, P.E. •47607

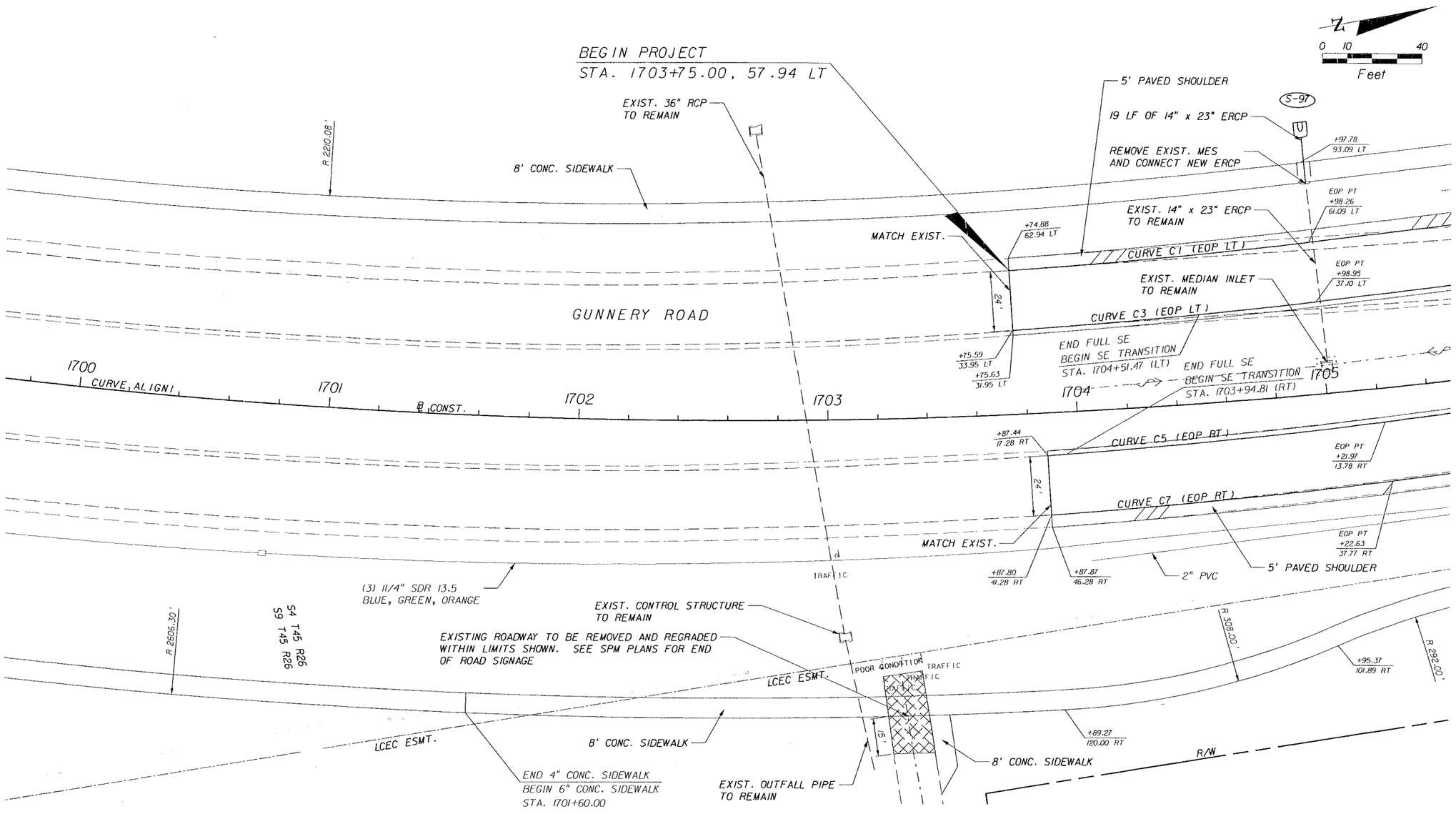
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 29

09/13/2005 07:35:53 AM P:\99012.201\cadd\roadway\planrd02.dgn



CURVE ALIGN1 (℄ CONST.)
PI Sta. = 1701+07.09
Delta = 23° 18' 04" (LT)
D = 2° 18' 16"
T = 512.65
L = 1,011.13
R = 2,486.30
PC Sta. = 1695+94.44
PT Sta. = 1706+05.57

CURVE C1 (EOP LT)
PI STA. = 1700+49.71 (8.34 LT)
Delta = 22° 26' 32" (LT)
D = 2° 33' 20"
T = 444.80
L = 878.20
R = 2,242.08
PC STA. = 1696+00.98 (49.75 LT)
PT STA. = 1704+98.26 (61.09 LT)

CURVE C3 (EOP LT)
PI STA. = 1700+50.02 (16.13 RT)
Delta = 22° 26' 32" (LT)
D = 2° 31' 42"
T = 449.56
L = 887.60
R = 2,266.08
PC STA. = 1696+00.92 (25.75 LT)
PT STA. = 1704+98.95 (37.10 LT)
e = 0.054

CURVE C5 (EOP RT)
PI STA. = 1700+61.47 (70.71 RT)
Delta = 22° 58' 46" (LT)
D = 2° 28' 20"
T = 471.08
L = 929.50
R = 2,317.58
PC STA. = 1696+00.78 (25.75 RT)
PT STA. = 1705+21.97 (13.78 RT)
e = 0.054

CURVE C7 (EOP RT)
PI STA. = 1700+61.77 (95.20 RT)
Delta = 22° 58' 46" (LT)
D = 2° 26' 49"
T = 475.96
L = 939.12
R = 2,341.58
PC STA. = 1696+00.72 (49.75 RT)
PT STA. = 1705+22.63 (37.77 RT)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEDERSEN, REGENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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George R. Brinson, P.E. #47607

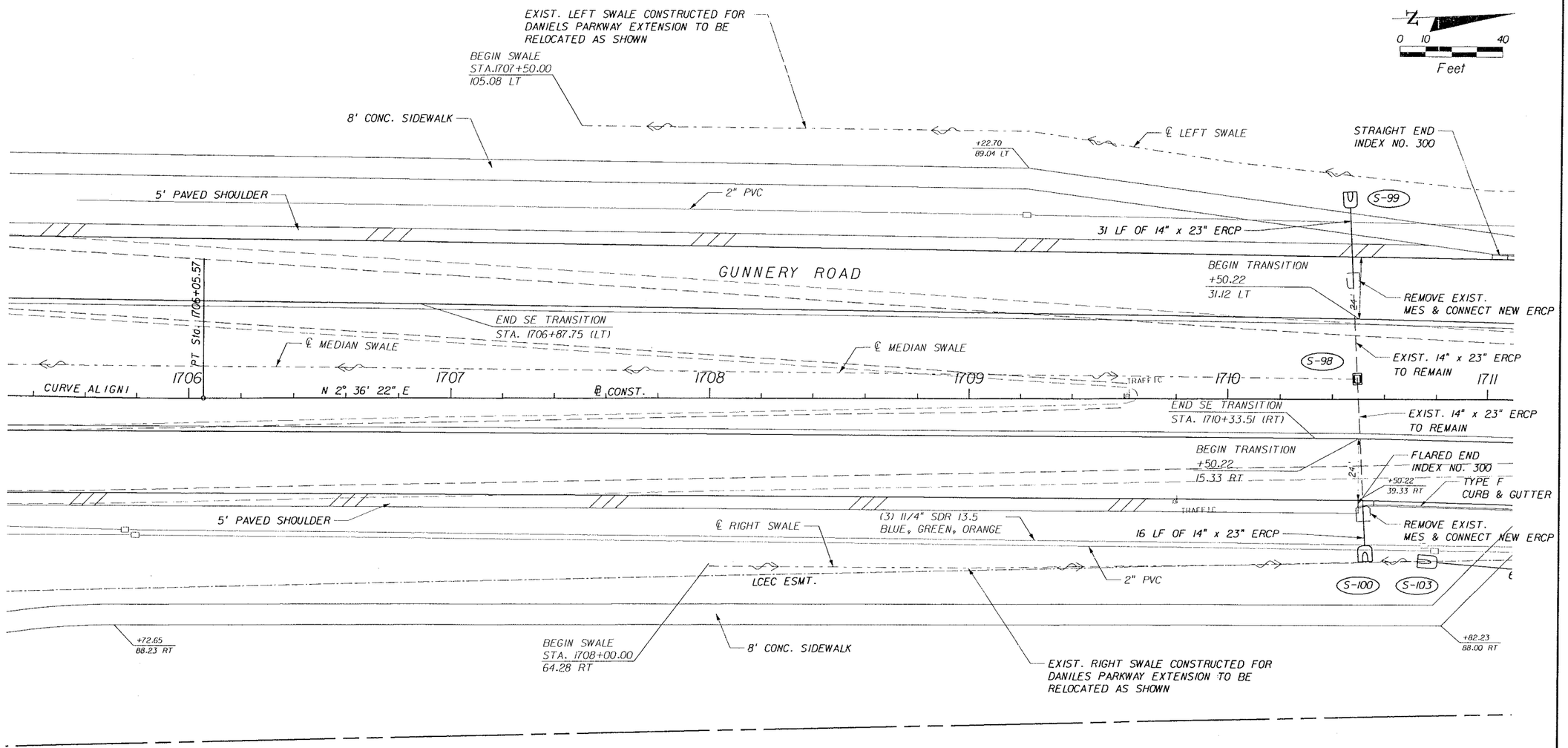
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 30

09/13/2005 07:35:54 AM P:\99012.201\cadd\roadway\planrd03.dgn



CURVE ALIGN1 (℄ CONST.)
PI Sta. = 1701+07.09
Delta = 23° 18' 04" (LT)
D = 2° 18' 16"
T = 512.65
L = 1,011.13
R = 2,486.30
PC Sta. = 1695+94.44
PT Sta. = 1706+05.57

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROUTMAN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. -47607

LEE COUNTY DEPARTMENT OF TRANSPORTATION			PLAN	SHEET NO.
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.		
4055	LEE	99012.201		31

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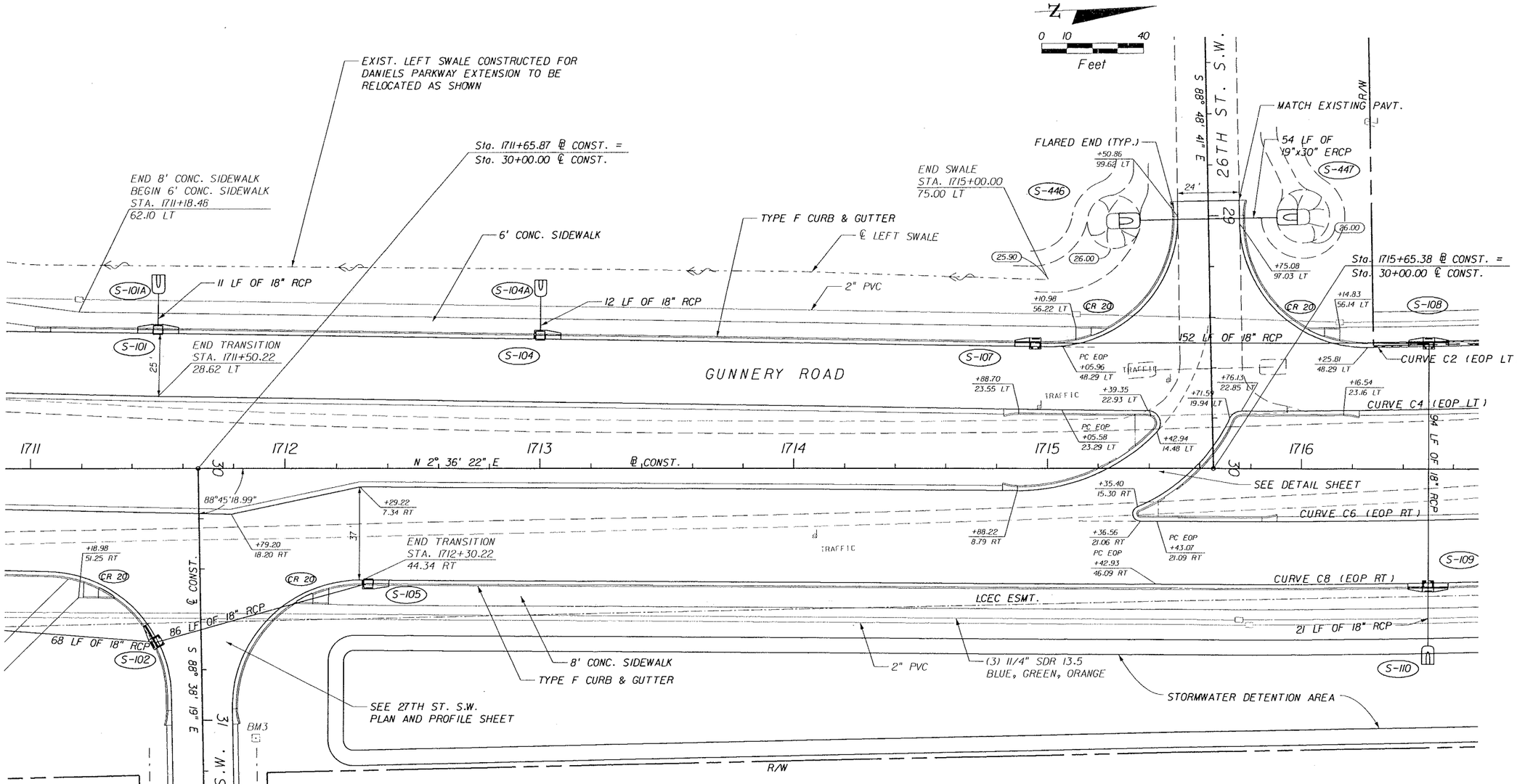

BM3
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA:1711+89.0 107.0' RT ℄ SURVEY
ELEV=27.91'

CURVE C2 (EOP LT)
PI STA. = 129+10.37 (38.00 LT)
Delta = 8° 24' 55" (LT)
D = 1° 25' 57"
T = 294.27
L = 587.49
R = 4,000.00
PC STA. = 1715+05.96 (48.29 LT)
PT STA. = 132+04.64 (38.00 LT)

Curve = C4 (EOP LT)
PI STA. = 129+08.53 (13.00 LT)
Delta = 8° 24' 55" (LT)
D = 1° 25' 25"
T = 296.11
L = 591.16
R = 4,025.00
PC STA. = 1715+05.58 (23.29 LT)
PT STA. = 132+04.64 (13.00 LT)
e = NC

Curve = C6 (EOP RT)
PI STA. = 129+24.46 (31.00 RT)
Delta = 7° 52' 41" (LT)
D = 1° 24' 29"
T = 280.18
L = 559.48
R = 4,069.00
PC STA. = 1715+43.07 (21.09 RT)
PT STA. = 132+04.64 (31.00 RT)
e = NC

Curve = C8 (EOP RT)
PI STA. = 129+22.74 (56.00 RT)
Delta = 7° 52' 41" (LT)
D = 1° 23' 58"
T = 281.90
L = 562.91
R = 4,094.00
PC STA. = 1715+42.93 (46.09 RT)
PT STA. = 132+04.64 (56.00 RT)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PH&A ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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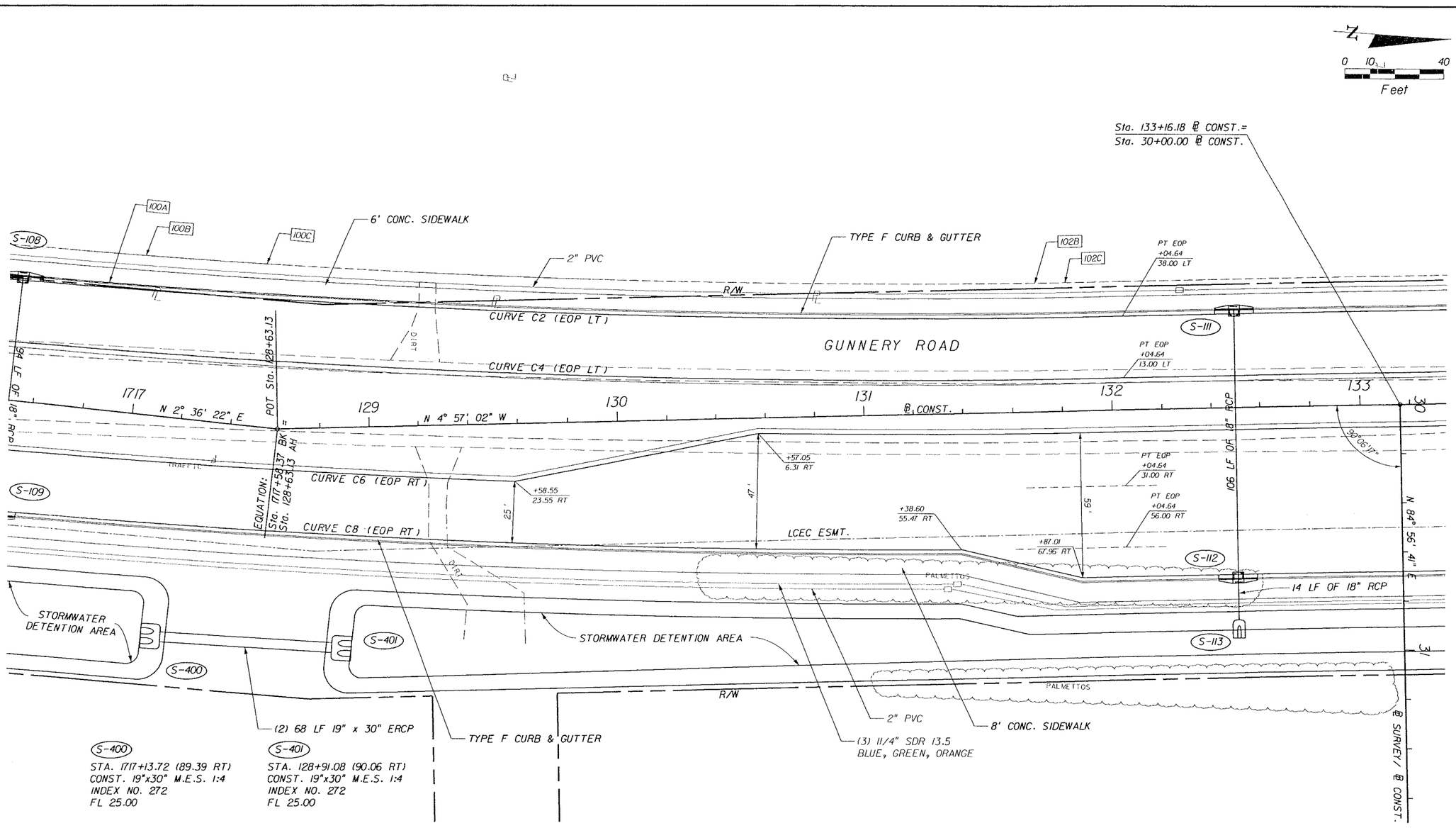
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 32

09/13/2005 07:35:57 AM P:\99012.201\cadd\roadway\planrd05.dgn



CURVE C2 (EOP LT)
PI STA. = 129+10.37 (38.00 LT)
Delta = 8° 24' 55" (LT)
D = 1° 25' 57"
T = 294.27
L = 587.49
R = 4,000.00
PC STA. = 1715+05.96 (48.29 LT)
PT STA. = 132+04.64 (38.00 LT)

Curve = C4 (EOP LT)
PI STA. = 129+08.53 (13.00 LT)
Delta = 8° 24' 55" (LT)
D = 1° 25' 25"
T = 296.11
L = 591.16
R = 4,025.00
PC STA. = 1715+05.58 (23.29 LT)
PT STA. = 132+04.64 (13.00 LT)
e = NC

Curve = C6 (EOP RT)
PI STA. = 129+24.46 (31.00 RT)
Delta = 7° 52' 41" (LT)
D = 1° 24' 29"
T = 280.18
L = 559.48
R = 4,069.00
PC STA. = 1715+43.07 (21.09 RT)
PT STA. = 132+04.64 (31.00 RT)
e = NC

Curve = C8 (EOP RT)
PI STA. = 129+22.74 (56.00 RT)
Delta = 7° 52' 41" (LT)
D = 1° 23' 58"
T = 281.90
L = 562.91
R = 4,094.00
PC STA. = 1715+42.93 (46.09 RT)
PT STA. = 132+04.64 (56.00 RT)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN, HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO.
33

09/13/2005 07:35:59 AM P:\99012.201\cadd\roadway\planrd06.dgn

N

0 10 40

Feet

SEE LEONARD BLVD PLAN AND PROFILE SHEETS

Sta. 136+62.02 ℄ CONST.= Sta. 30+00.00 ℄ CONST.

Sta. 136+53.79 ℄ CONST.= Sta. 30+00.00 ℄ CONST.

49 LF OF 19"x30 ERCP

LEONARD BLVD.

S-301

S-302

49 LF OF 19"x30" ERCP

PALMETTOS & PEPPERS

TYPE F CURB & GUTTER

6' CONC. SIDEWALK

105C 106C 107C

R/W

+81.02 58.00 LT

+20.77 58.00 LT

CR 23

+90.67 58.00 LT

64 LF OF 24" RCP

S-300

S-303

CR 3

+24.00 50.00 LT

108A 108B 108C 109A 109B 109C 110A 110B

2" PVC

209 LF OF 18" RCP

PALMETTOS & PEPPERS

S-111

106 LF OF 18" RCP

S-114

+81.02 38.00 LT 28.77

CR 3

TRAFFIC

SEE DETAIL SHEET FOR INTERSECTION GRADING

GUNNERY ROAD

Sta. 133+16.18 ℄ CONST. = Sta. 30+00.00 ℄ SURVEY ℄ CONST.

FLARED END (TYP.)

+11.17 13.00 LT

+79.13 2.73 LT

CR 175'

90°00'00"

134 135 136 137 138

℄ CONST. N 4° 57' 02" W

R 230'

R 6'

29 30

+11.17 9.00 RT

+77.36 9.00 RT

+22.55 9.00 RT

+88.74 9.00 RT

TYPE F CURB & GUTTER (TYP.)

+20.78 20.73 RT

+88.74 31.00 RT

℄ TRAFFIC

8' CONC. SIDEWALK

106 LF OF 18" RCP

TYPE F CURB & GUTTER

151 LF OF 30" RCP

CR 175'

LCEC ESMT.

N 84° 56' 41" E

+25.29 56.00 RT

CR 3

S-115

+82.29 68.00 RT

CR 3

+10.87 90.02 RT

S-118

21 LF OF 18" RCP

S-119

2" PVC

14 LF OF 18" RCP

CR 23

CR 23

+88.62 90.02 RT

+25.29 66.00 RT

+19.12 66.48 RT

S-402 S-403

STORMWATER DETENTION AREA

BM4

S-116

+82.29 78.00 RT

CS-1

CS-1A

CS-2

STORMWATER DETENTION AREA

℄ SURVEY ℄ CONST. 24TH ST. W.

R/W

PALMETTOS

PALMETTOS

(2) 57 LF 19" x 30" ERCP

S-402

STA. 134+41.57 (95.25 RT)

CONST. 19"x30" M.E.S. 1:4

INDEX NO. 272

FL 25.00

32 LF OF 30" RCP

S-403

STA. 135+14.56 (95.11 RT)

CONST. 19"x30" M.E.S. 1:4

INDEX NO. 272

FL 25.00

R/W

PALMETTOS & PEPPERS

4 LF OF 36" RCP

4 LF OF 36" RCP

80 LF OF 36" RCP

(3) 1 1/4" SDR 13.5 BLUE, GREEN, ORANGE

BM4

STANDARD 4"X4" C.M

WITH ALUMINUM DISK

AIM ENGINEERING &

SURVEYING, INC. LS2995

STA: 1722+69.0 94.0' RT ℄ SURVEY

ELEV=28.00'

TO 24TH ST. W.

23RD ST. S.W.

SEE 23RD ST. S.W. PLAN AND PROFILE SHEETS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PALMER-HENDERSON & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

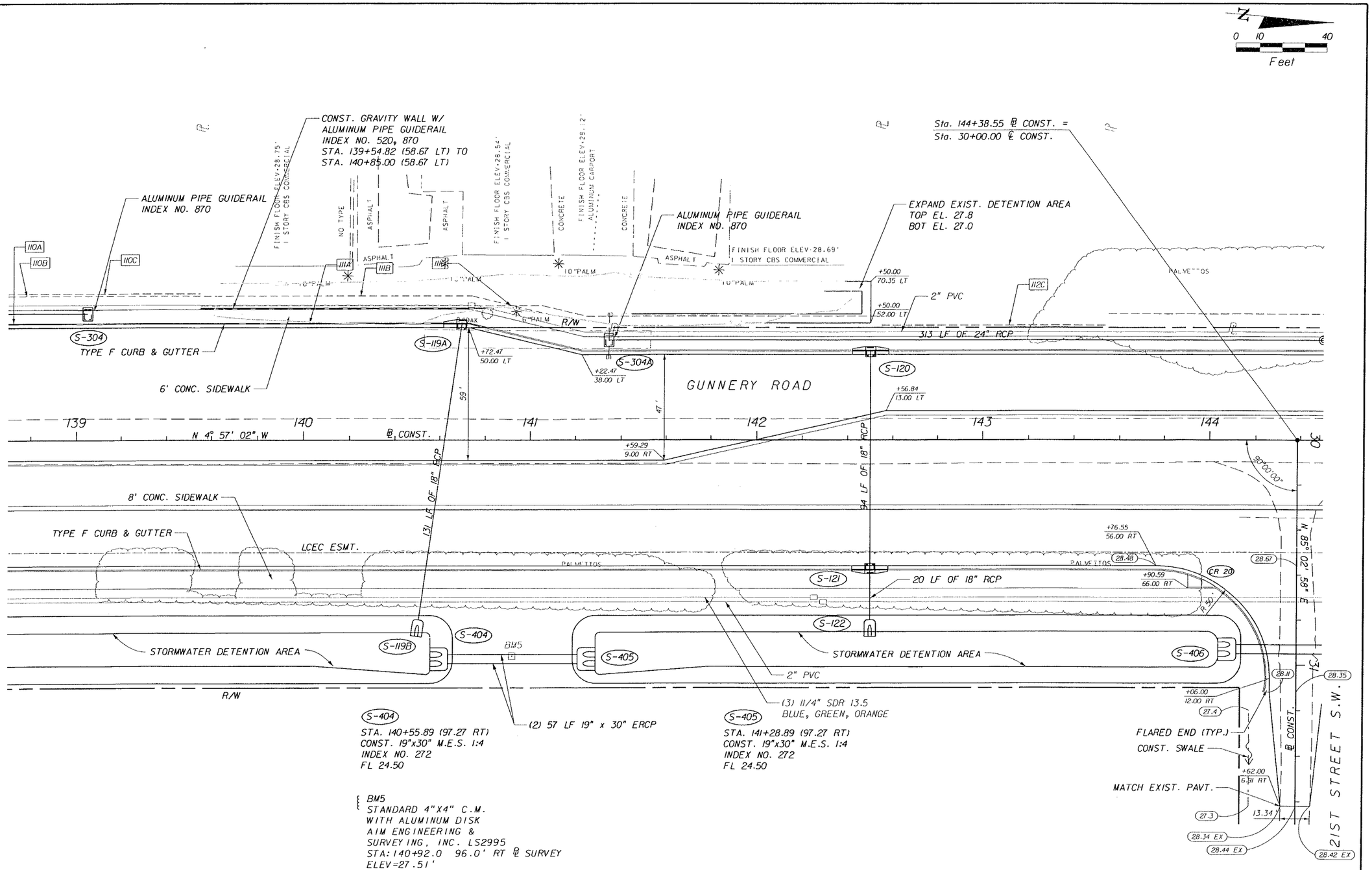
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 34

09/13/2005 07:36:50 AM P:\99012.201\cadd\rdsway\plan1d57.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

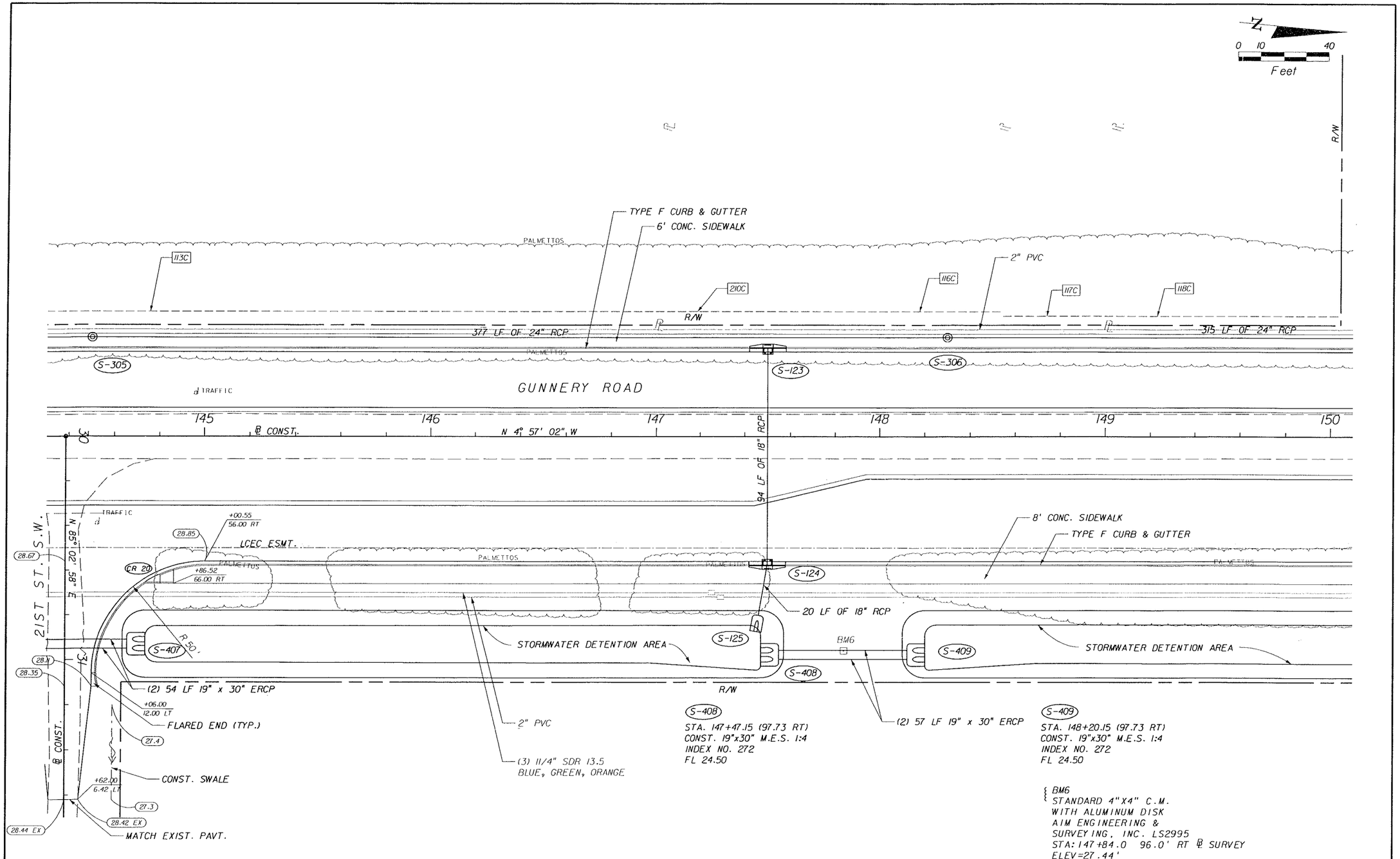
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO.
35

09/13/2005 07:36:02 AM P:\99012.201\cadd\roadway\planrd08.dgn



S-408
STA. 147+47.15 (97.73 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 24.50

S-409
STA. 148+20.15 (97.73 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 24.50

BM6
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA: 147+84.0 96.0' RT ℄ SURVEY
ELEV=27.44'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN-HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO.
36

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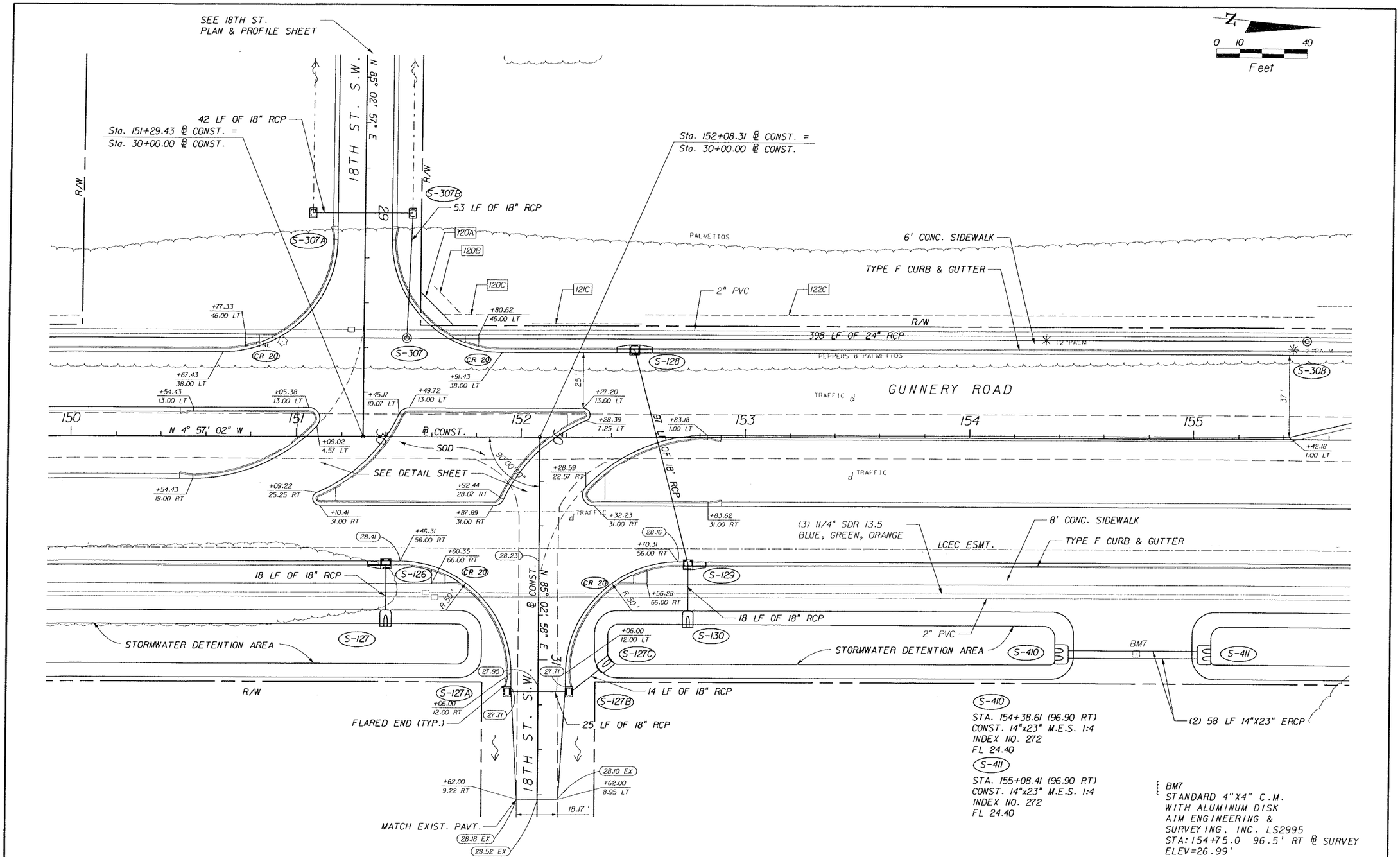


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

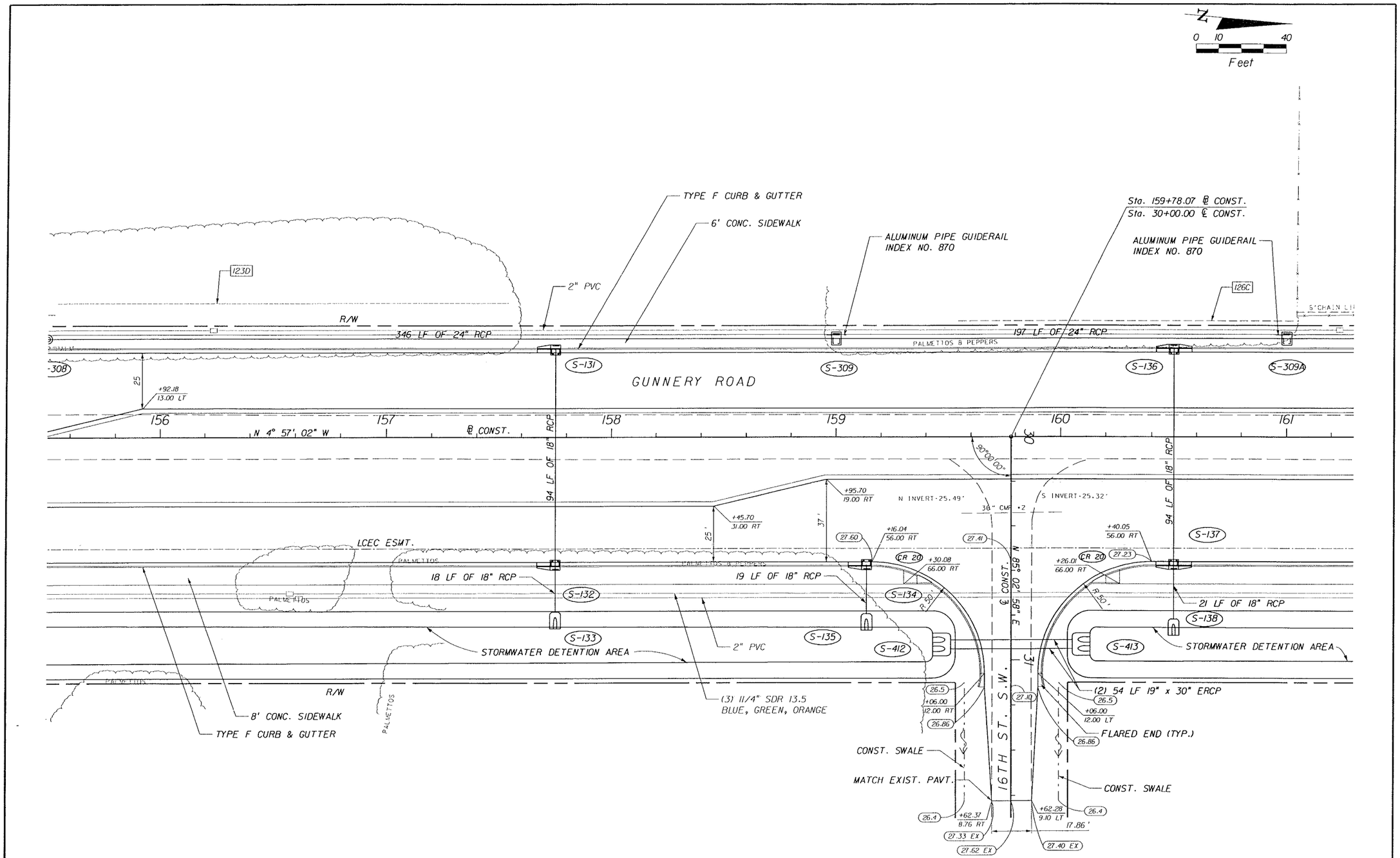
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 37

09/13/2005 07:36:06 AM P:\99012.201\cadd\roadway\planrd15.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PALMER ENGINEERING
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 38

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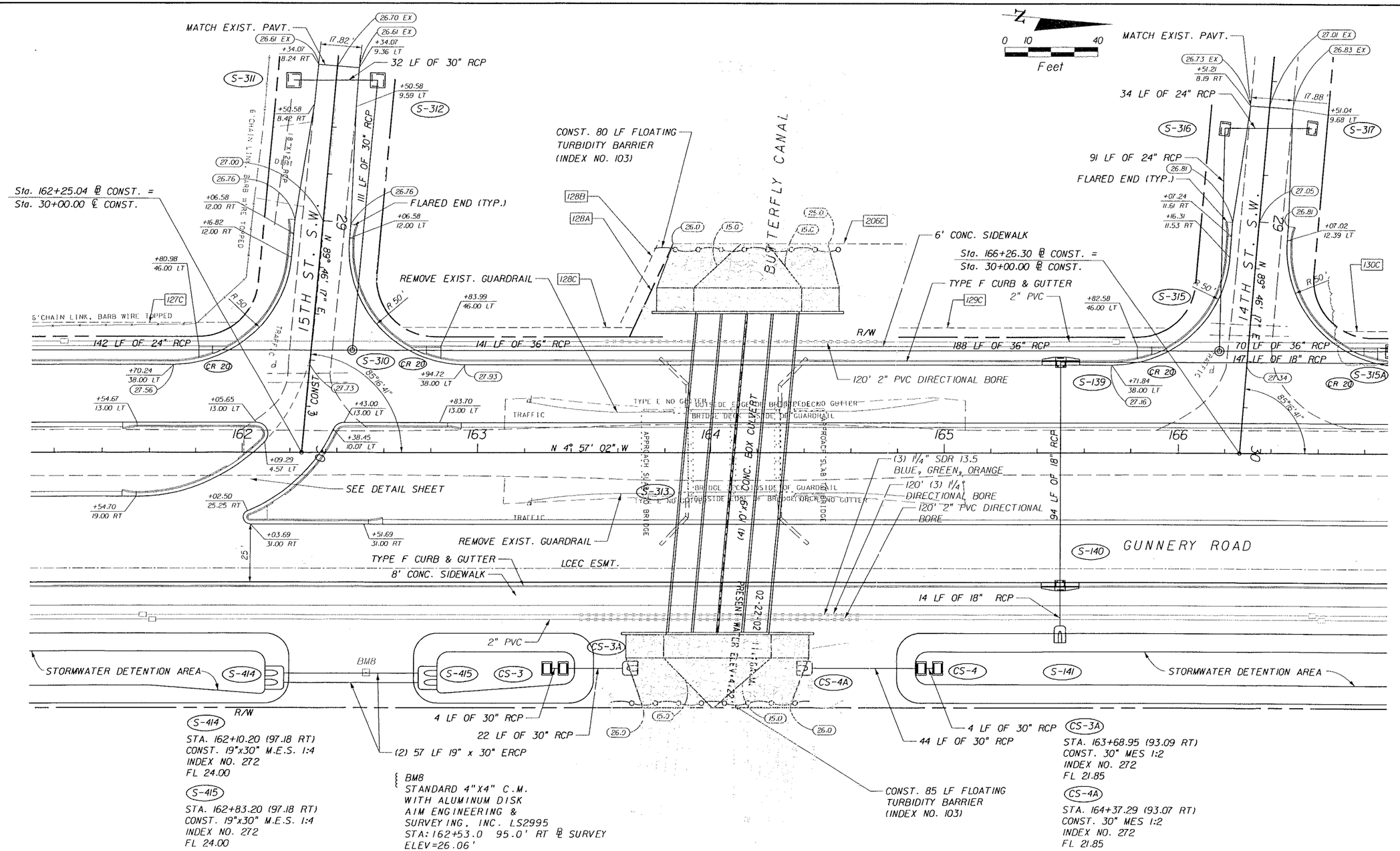

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PALMER HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 39

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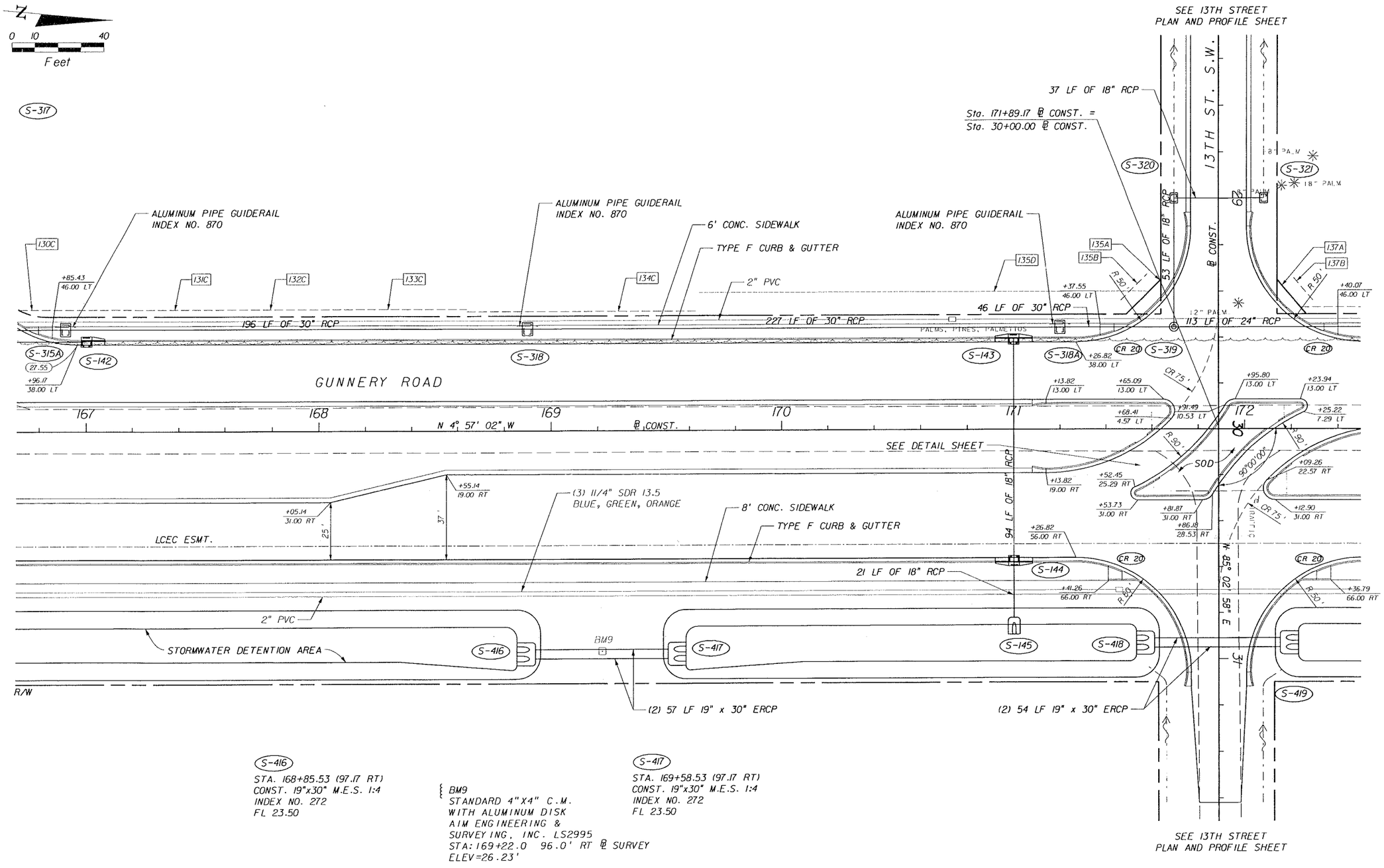

S-416
STA. 168+85.53 (97.17 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 23.50

BM9
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA: 169+22.0 96.0' RT ℄ SURVEY
ELEV=26.23'

S-417
STA. 169+58.53 (97.17 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 23.50

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 40

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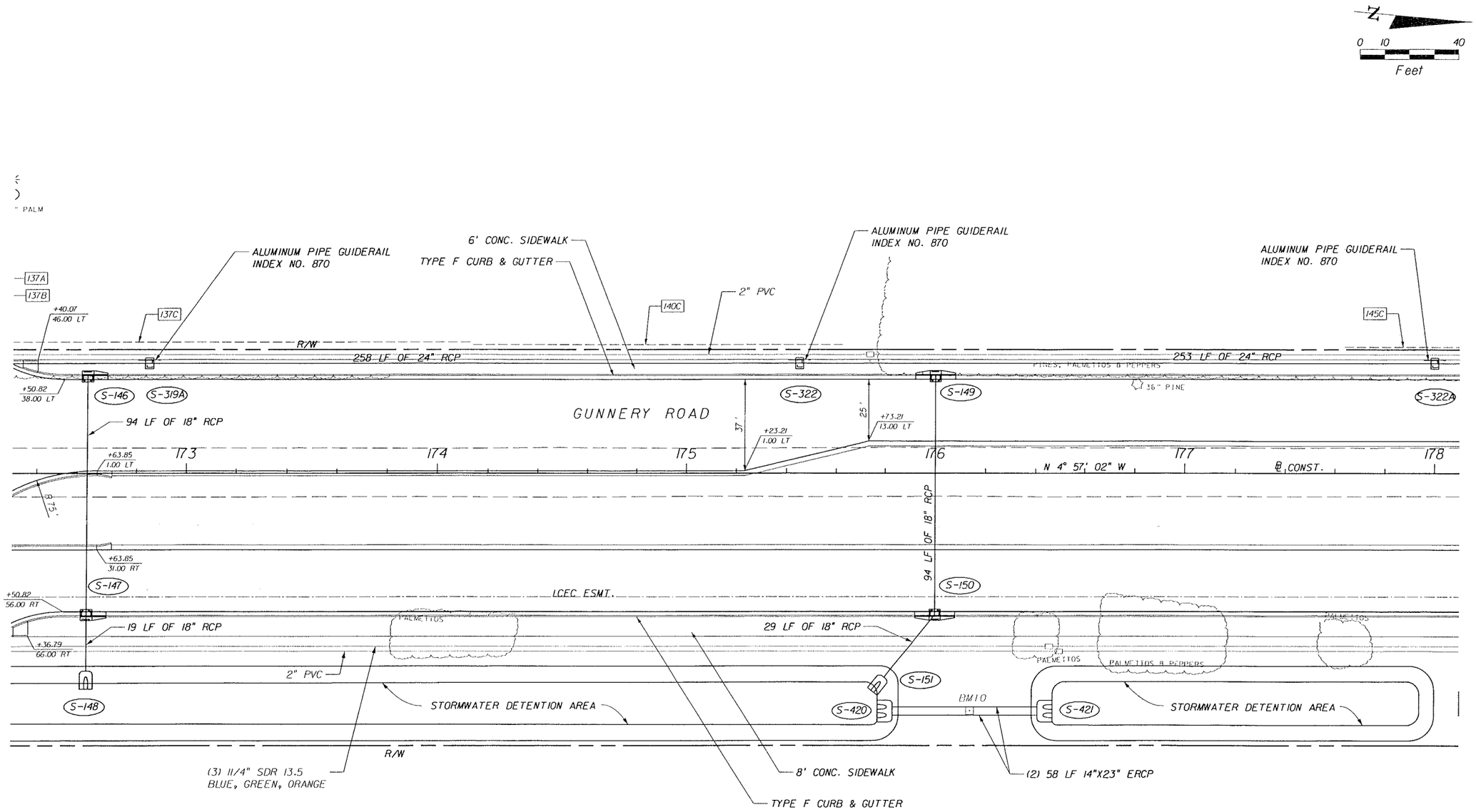

S-420
STA. 175+77.13 (96.15 RT)
CONST. 14"x23" M.E.S. 1:4
INDEX NO. 272
FL 23.90

S-421
STA. 176+46.93 (96.15 RT)
CONST. 14"x23" M.E.S. 1:4
INDEX NO. 272
FL 23.90

BM10
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA: 176+14.0 96.0' RT ℄ SURVEY
ELEV=26.12'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTSFIELD & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 41

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N

0 10 40
Feet

Sta. 179+57.28 ℄ CONST. =
Sta. 30+00.00 ℄ CONST.

ALUMINUM PIPE GUIDERAIL
INDEX NO. 870

TYPE F CURB & GUTTER

6' CONC. SIDEWALK

ALUMINUM PIPE GUIDERAIL
INDEX NO. 870

ALUMINUM PEDESTRIAN PICKET RAILING
INDEX NO. 860

146C 147C 148C 2" PVC 150C 151C 152C 153C

248 LF OF 24" RCP

R/W

263 LF OF 24" RCP

PINES, PALMETTOS & PEPPERS

S-322A S-323 S-152 S-324

GUNNERY ROAD

178 179 180 181 182 183

℄ CONST.

N 4° 57' 02" W

90°00'00"

℄ CONST. OF 10TH ST. S.W.

94 LF OF 18" RCP

+32.65
9.00 RT

+32.65
31.00 RT

25'

47'

+94.00
56.00 RT

LCEC ESMT.

26.97

26.52

+18.03
56.00 RT

26.47

(3) 11/4" SDR 13.5
BLUE, GREEN, ORANGE

2" PVC

CR 20

CR 20

+08.03
66.00 RT

+03.99
66.00 RT

19 LF OF 18" RCP

S-153

R 50'

R 50'

R 50'

S-154

STORMWATER DETENTION AREA

S-422

S-423

STORMWATER DETENTION AREA

S-424

BM11

S-425

24.1

24.5

R/W

R/W

+07.02
13.29 RT

+07.02
10.75 LT

(2) 58 LF 14"X23" ERCP

25.26

25.50

FLARED END (TYP.)

25.26

TYPE F CURB & GUTTER

8' CONC. SIDEWALK

(2) 57 LF 19" x 30" ERCP

CONST. SWALE TO
DETENTION AREA

CONST. SWALE TO
DETENTION AREA

24.8

24.6

+59.43
6.54 LT

+59.07
11.34 RT

17.87'

25.27 EX

25.37 EX

MATCH EXIST. PAVT.

S-424
STA. 182+66.27 (96.28 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 22.50

S-425
STA. 183+39.27 (96.28 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 22.50

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

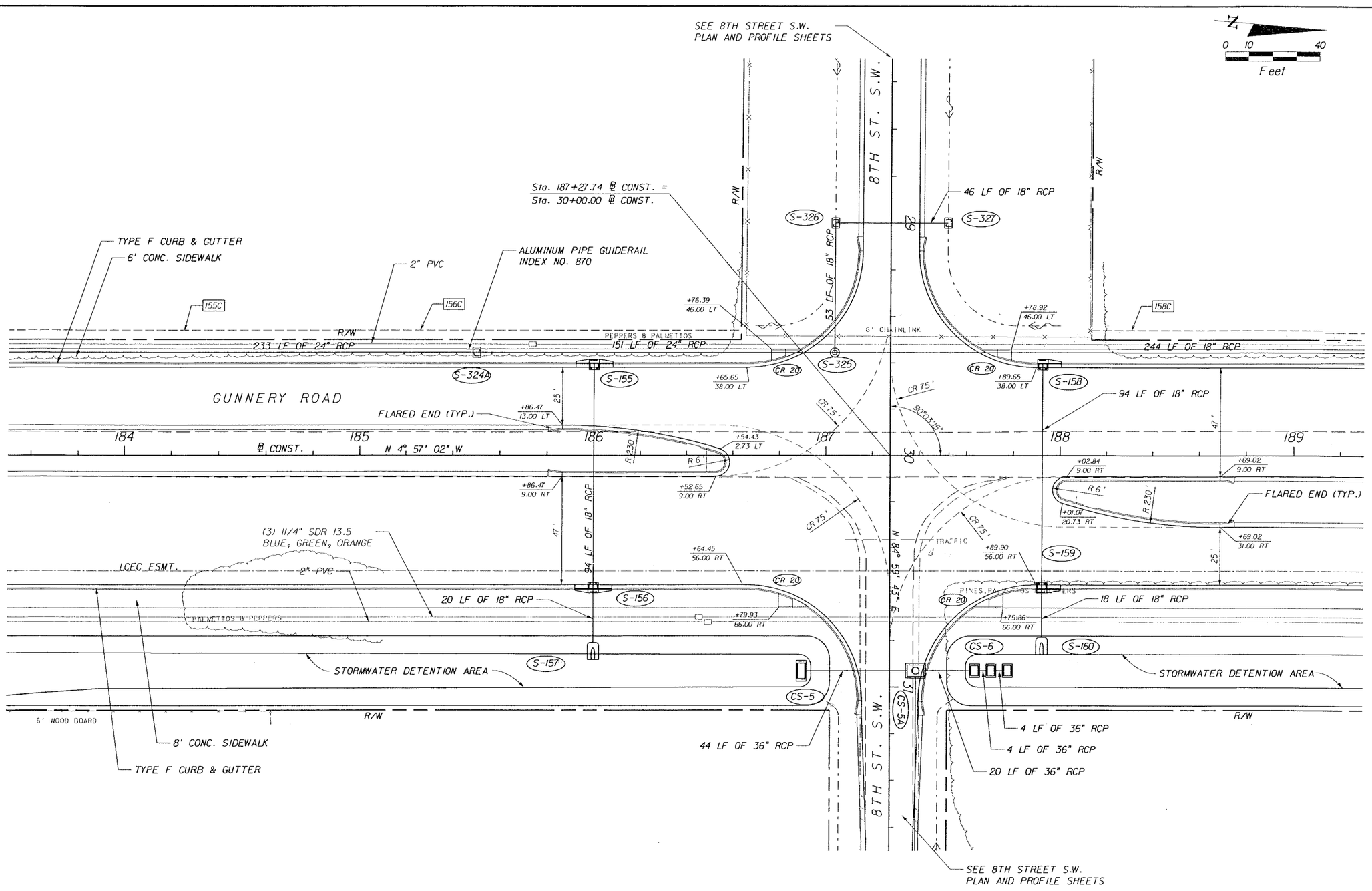
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 42

09/13/2005 07:36:14 AM P:\99012.201\cadd\roadway\planrd15.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PH&A ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 43

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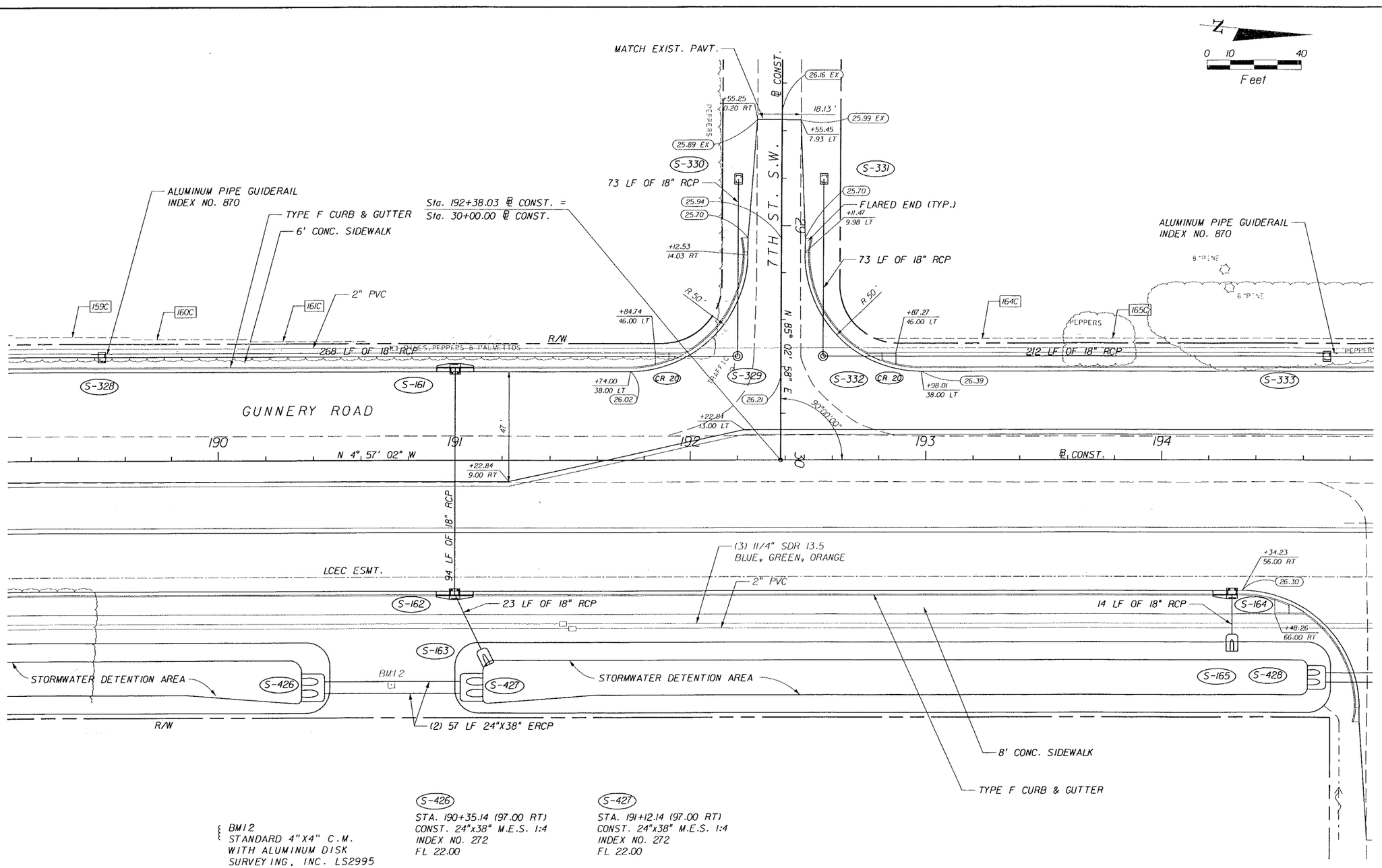


S-426
STA. 190+35.14 (97.00 RT)
CONST. 24"x38" M.E.S. 1:4
INDEX NO. 272
FL 22.00

S-427
STA. 191+12.14 (97.00 RT)
CONST. 24"x38" M.E.S. 1:4
INDEX NO. 272
FL 22.00

BM12
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
SURVEYING, INC. LS2995
AIM ENGINEERING &
STA: 190+73.0 96.0' RT ℄ SURVEY
ELEV=26.40'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMARY HARTENSTEIN & ASSOC. INC. ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

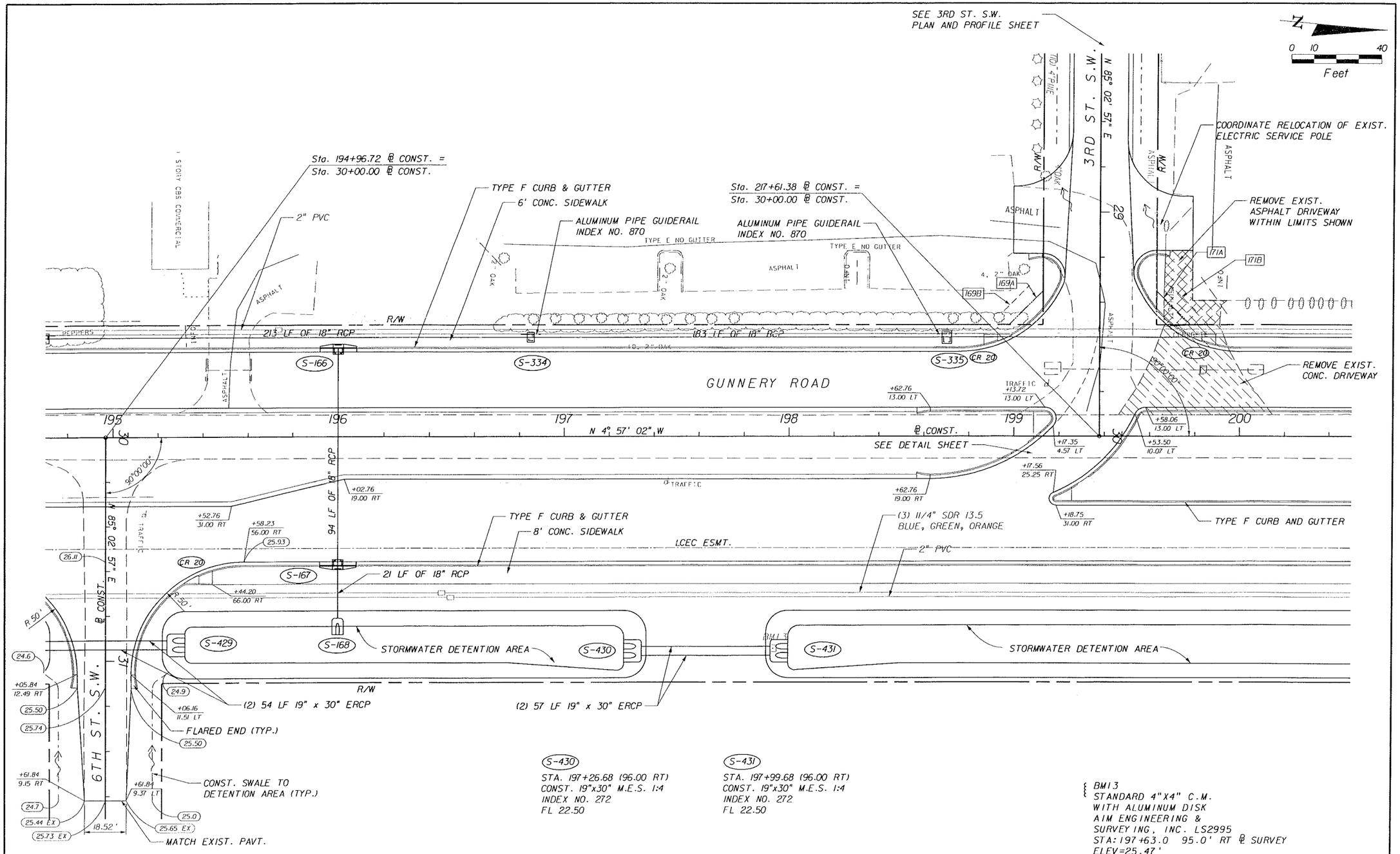
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 44

09/13/2005 07:36:17 AM P:\99012.201\cadd\roadway\planrd17.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PETMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 45

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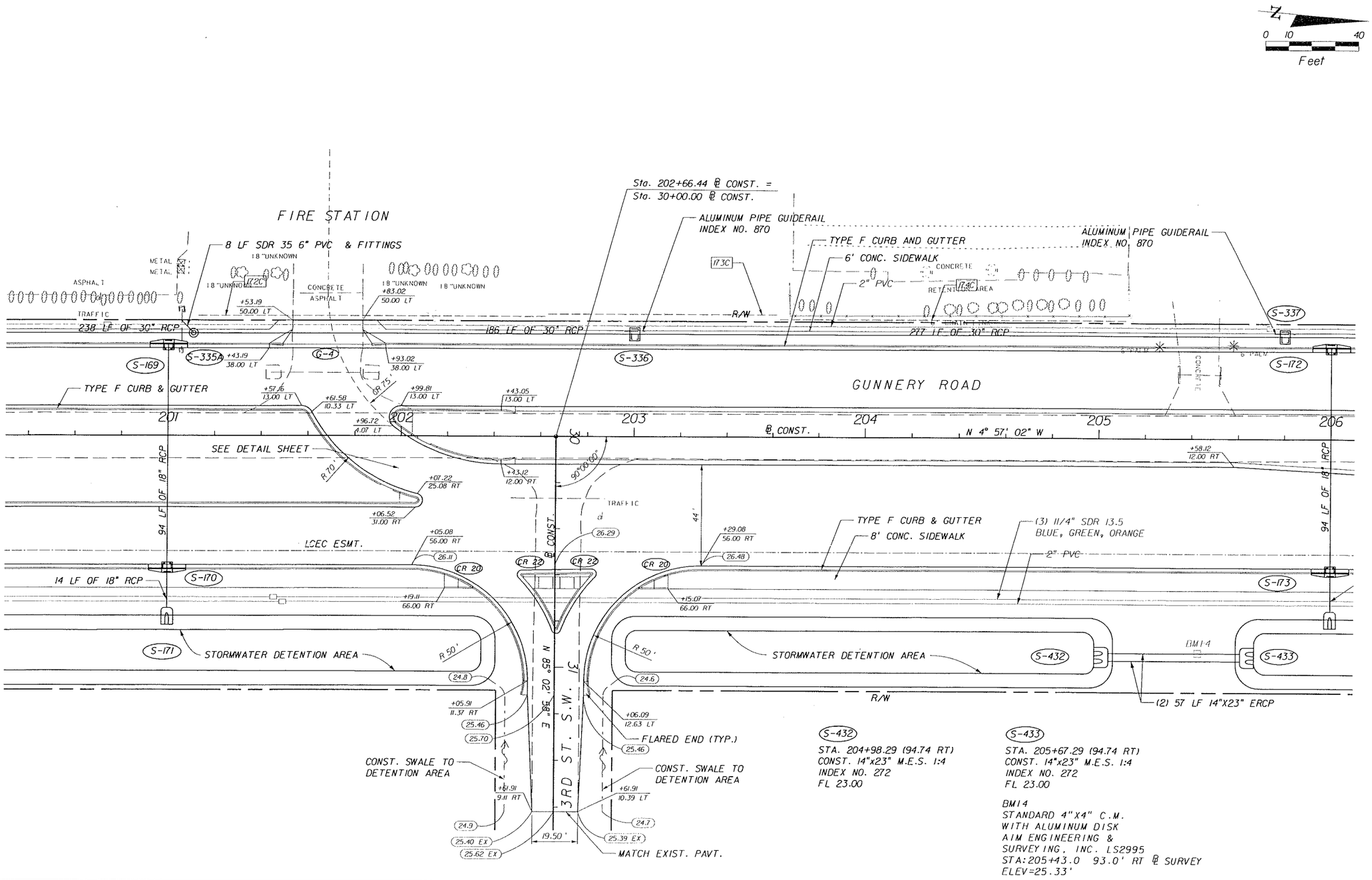

S-432
STA. 204+98.29 (94.74 RT)
CONST. 14"x23" M.E.S. 1:4
INDEX NO. 272
FL 23.00

S-433
STA. 205+67.29 (94.74 RT)
CONST. 14"x23" M.E.S. 1:4
INDEX NO. 272
FL 23.00

BM14
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA:205+43.0 93.0' RT ℄ SURVEY
ELEV=25.33'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. +47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 46

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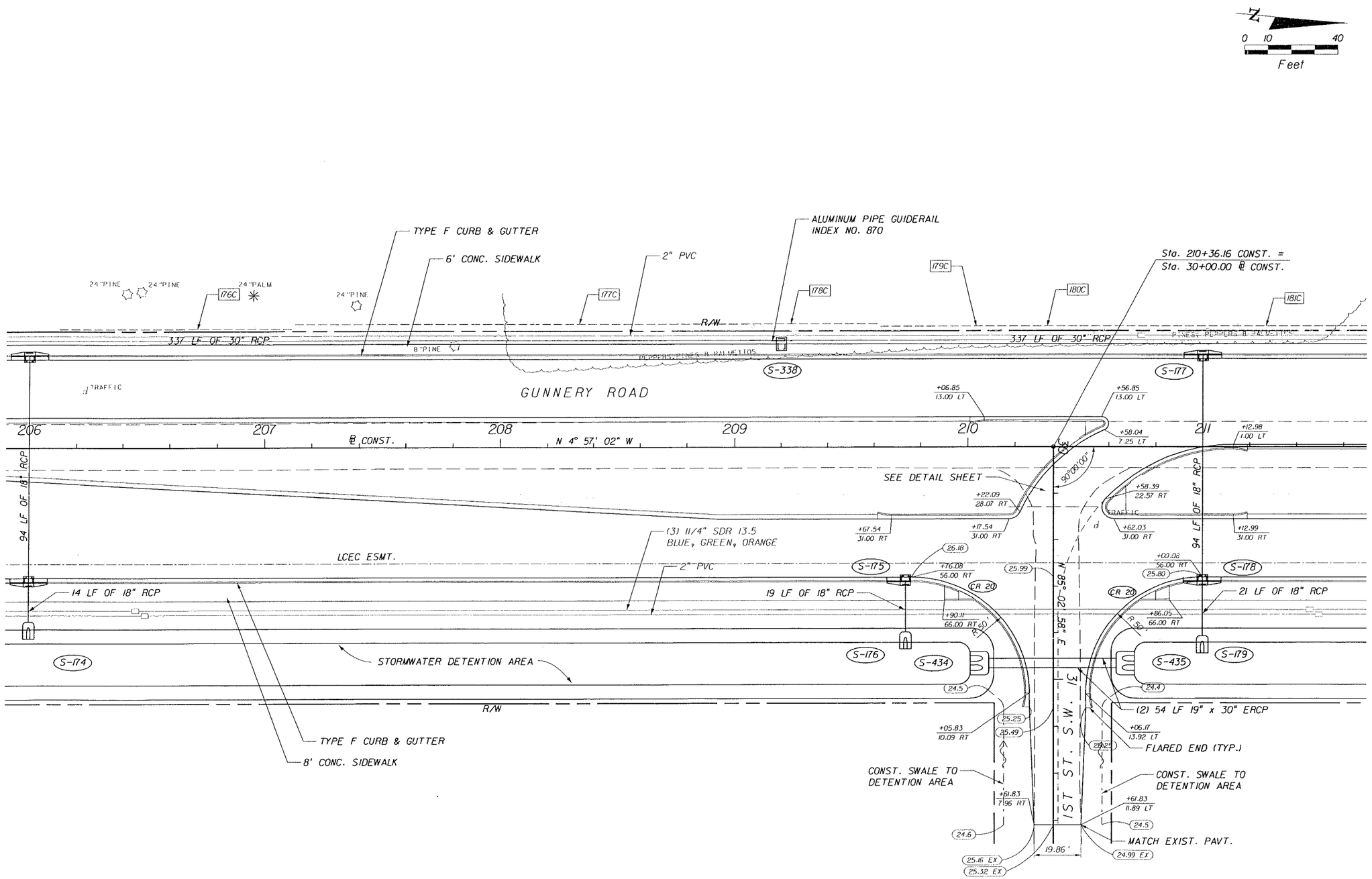


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINEL HARRINGTON & LAVOIE, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

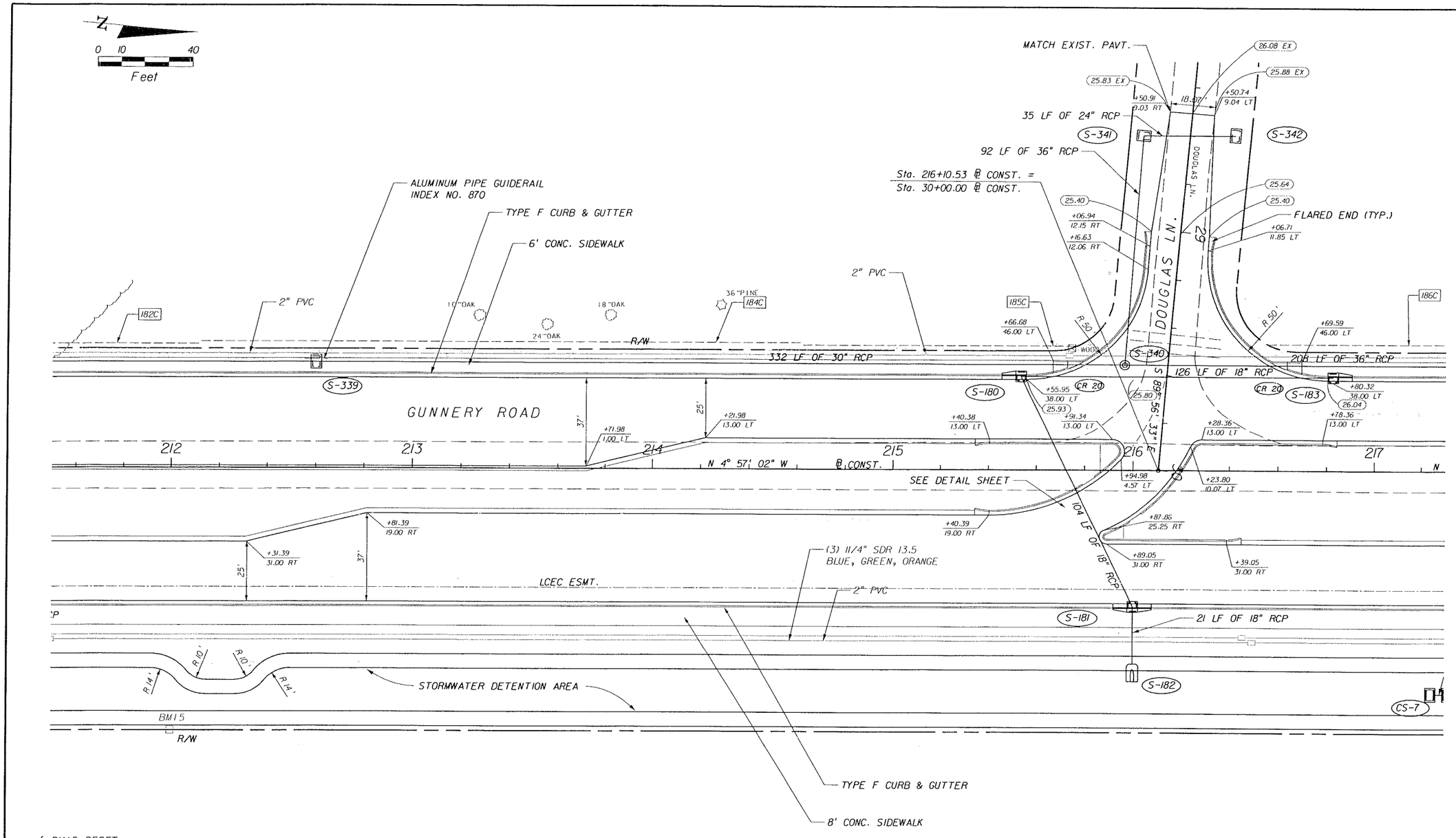
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 47

09/13/2005 07:36:22 AM P:\99012.201\cadd\roadway\planrd25.dgn



BM15 RESET
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA:212+00.0 110.0' RT ℄ SURVEY
ELEV=24.90'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY ENGINEERING & ANALYSIS, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 48

09/13/2005 09:36:24 AM P:\99012.201\cadd\roadway\planrd21.dgn

N

0 10 40

Feet

BLOWFISH CANAL

CONST. 70 LF FLOATING TURBIDITY BARRIER (INDEX NO. 103)

207C

186C

S-343A

PINES & PALMETTOS

187C

2" PVC

188C

ALUMINUM PIPE GUIDERAIL INDEX NO. 870

TYPE F CURB & GUTTER

6' CONC. SIDEWALK

211C

189C

190C

PINES & PALMETTOS

R/W

(2) 18 LF OF 60" RCP

228 LF OF 24" RCP

291 LF OF 24" RCP

S-343B

60' 2" PVC DIRECTIONAL BORE

GUNNERY ROAD

S-345

S-184

POT Sta. 217+61.38

218 219 220 221 222

N 4° 57' 02" W

℄ CONST.

N 4° 58' 16" W

(2) 126 LF OF 60" RCP

BEGIN TRANSITION
STA. 218+78.10, 31.00 RT

+11.30
16.04 RT

+63.30
29.11 RT

25'

TRAFFIC

37'

89 LF OF 18" RCP

TRAFFIC

TYPE F CURB & GUTTER

8' CONC. SIDEWALK

S-185

60' (3) 1¼" DIRECTIONAL BORE

60' 2" PVC DIRECTIONAL BORE

(3) 1¼" SDR 13.5 BLUE, GREEN, ORANGE

2"-PVC

LCEC ESMT.

12" PALM

4 LF OF 30" RCP

48 LF OF 30" RCP

S-343C

CS-7A

CS-8A

CS-7

CS-8

S33 T44 R26
S28 T44 R26

21 LF OF 18" RCP

STORMWATER DETENTION AREA

S-186

S-435A

BM16

S-435B

R/W

(2) 57 LF 19" x 30" ERCP

51 LF OF 30" RCP

BLOWFISH CANAL

CONST. 80 LF FLOATING TURBIDITY BARRIER (INDEX NO. 103)

CS-7A
STA. 217+89.06 (93.50 RT)
CONST. 30" MES 1:2
INDEX NO. 272
FL 19.85

CS-8A
STA. 218+13.10 (93.50 RT)
CONST. 30" MES 1:2
INDEX NO. 272
FL 19.85

S-435A
STA. 222+07.11 (94.16 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 22.50

S-435B
STA. 222+80.01 (93.36 RT)
CONST. 19"x30" M.E.S. 1:4
INDEX NO. 272
FL 22.50

BM16
STANDARD 4"X4" C.M.
WITH ALUMINUM DISK
AIM ENGINEERING &
SURVEYING, INC. LS2995
STA: 222+44.0 94.5' RT ℄ SURVEY
ELEV=24.89'

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROUTMAN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB 4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 49

09/13/2005 07:36:25 AM P:\99012.201\cadd\roadway\plan122.dgn

N
0 10 40
Feet

MATCH EXIST. PAVT.
Sta. 223+54.35 @ CONST. = Sta. 30+00.00 @ SURVEY @ CONST.
Sta. 226+77.30 CONST. = Sta. 30+00.00 @ SURVEY @ CONST.
TYPE F CURB & GUTTER
6' CONC. SIDEWALK
ALUMINUM PIPE GUIDERAIL INDEX NO. 870
37 LF OF 18" RCP
73 LF OF 18" RCP
FLARED END (TYP.)
179 LF OF 18" RCP
137 LF OF 18" RCP
2" PVC
R/W
THIRD ST. W.
4TH ST. W.
N 89° 13' 20" E
N 89° 13' 54" E
GUNNERY ROAD
TYPE F CURB & GUTTER
4' TYPE IV CONC. TRAFFIC SEP.
REMOVE EXIST. CONC. TRAFFIC SEP.
END TRANSITION STA. 227+33.37, 12.00 RT
75 LF OF 18" RCP
19 LF OF 18" RCP
21 LF OF 18" RCP
N 4° 58' 16" W @ CONST.
94°11'36"
94°11'54"
223
224
225
226
227
228
S-346
S-347
S-348
S-349
S-350
S-351
S-352
S-187
S-188
S-189
S-190
S-191
S-192
S-436
S-437
S-438
S-439
CR 20
TRAFFIC
SEE DETAIL SHEET
LCEC ESMT.
8' CONC. SIDEWALK
(3) 1 1/4" SDR 13.5 BLUE, GREEN, ORANGE
STORMWATER DETENTION AREA
(2) 54 LF 19" x 30" ERCP
(2) 81 LF 14" x 23" ERCP
FLARED END (TYP.)
CONST. SWALE TO DETENTION AREA
REPLACE MAILBOX INDEX NO. 532
SAWCUT AND REMOVE SLIVER OF EXIST. CONC. DRIVE WITHIN LIMITS SHOWN NEW CONST. TO MATCH EXIST. DRIVE GRADE
SAWCUT & REPLACE EXIST. CONC. DRIVE WITHIN LIMITS SHOWN TO MATCH PROP. GRADES ON 4TH ST.
MATCH EXIST. PAVT.
CONCRETE
SOD/SHRUB
R/W
R 45'
R 50'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PALMER-WILKINSON & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 50

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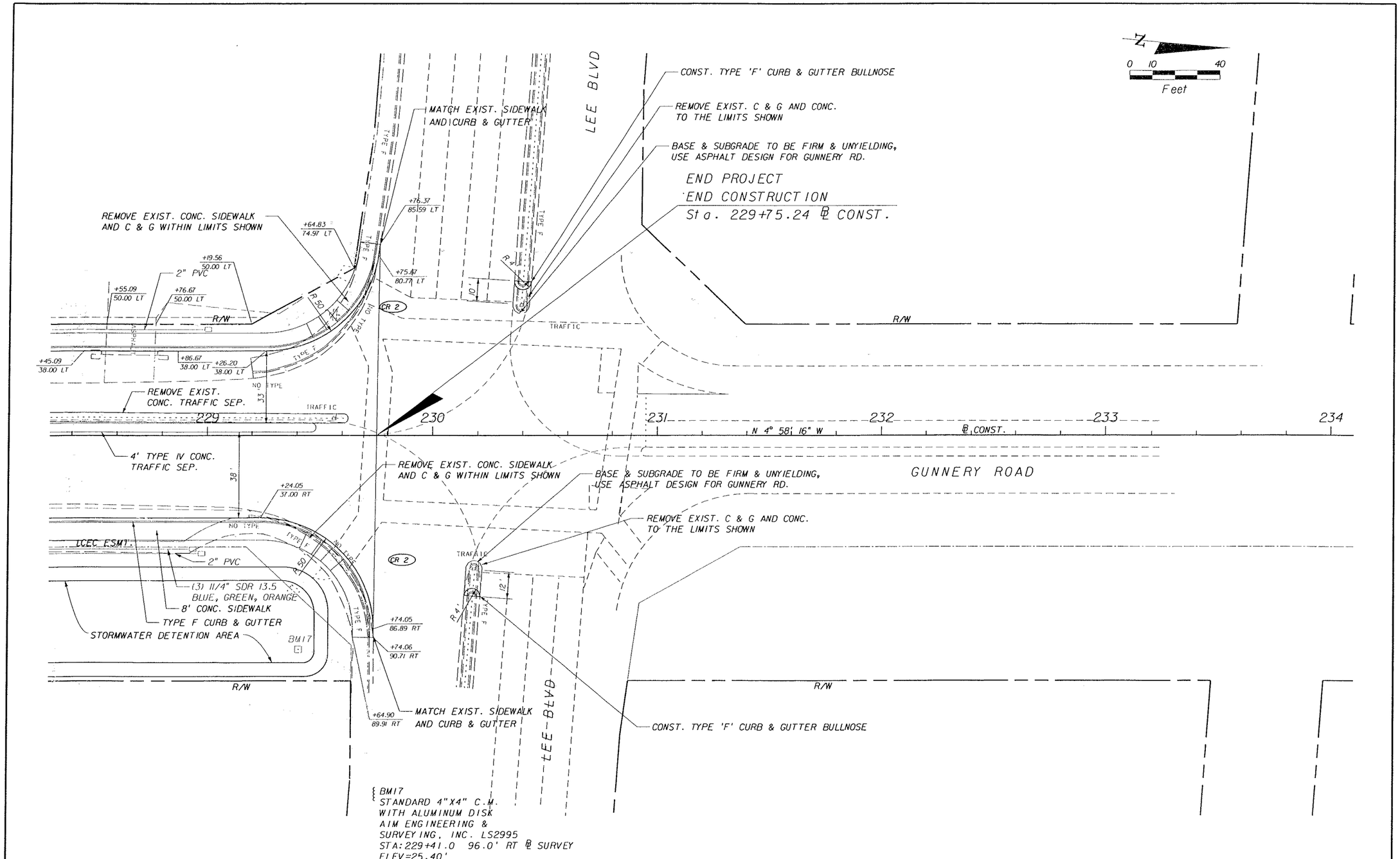

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN-HARTENSTEIN & ASSOC. INC. ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN

SHEET NO. 51

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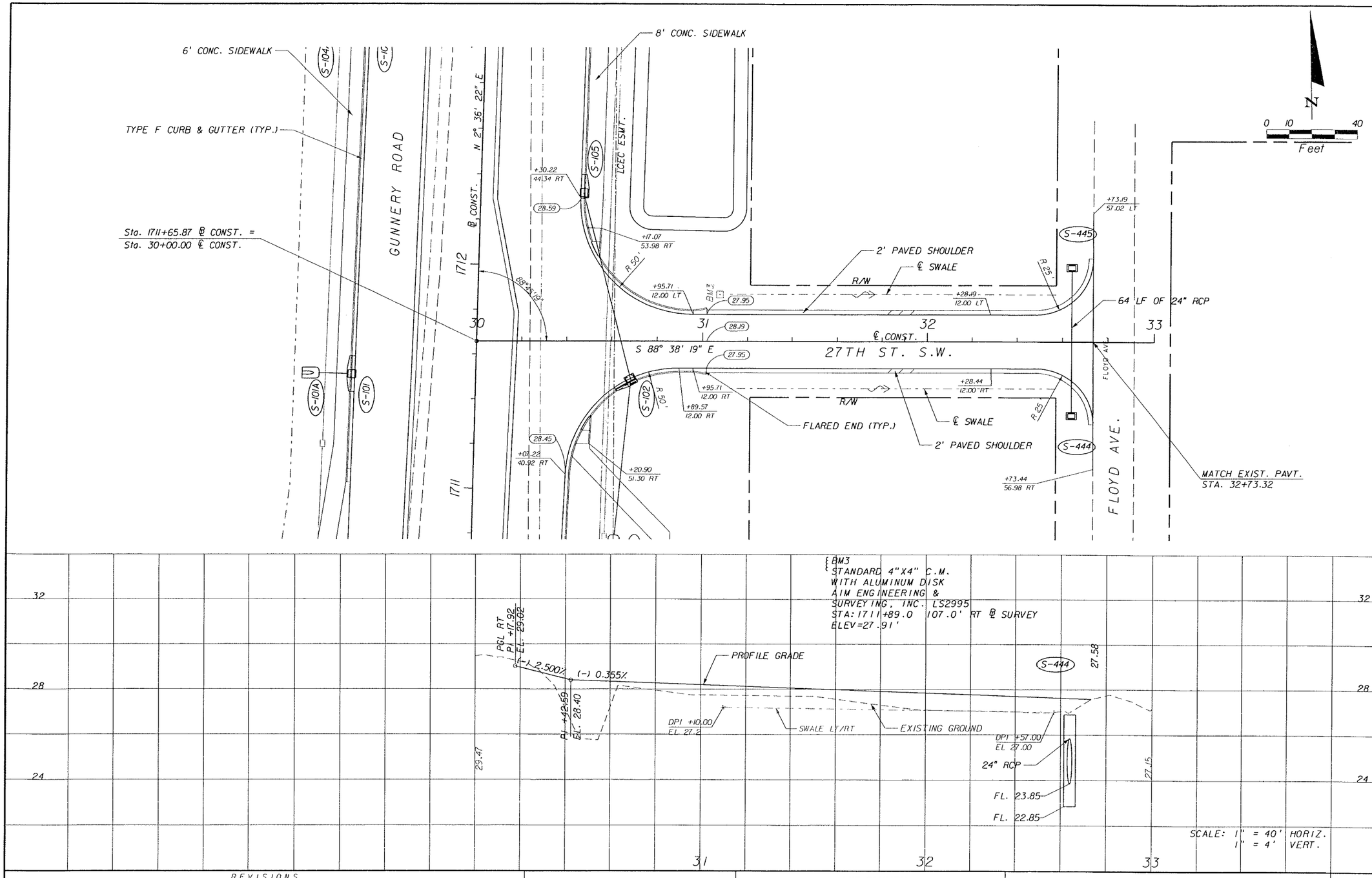

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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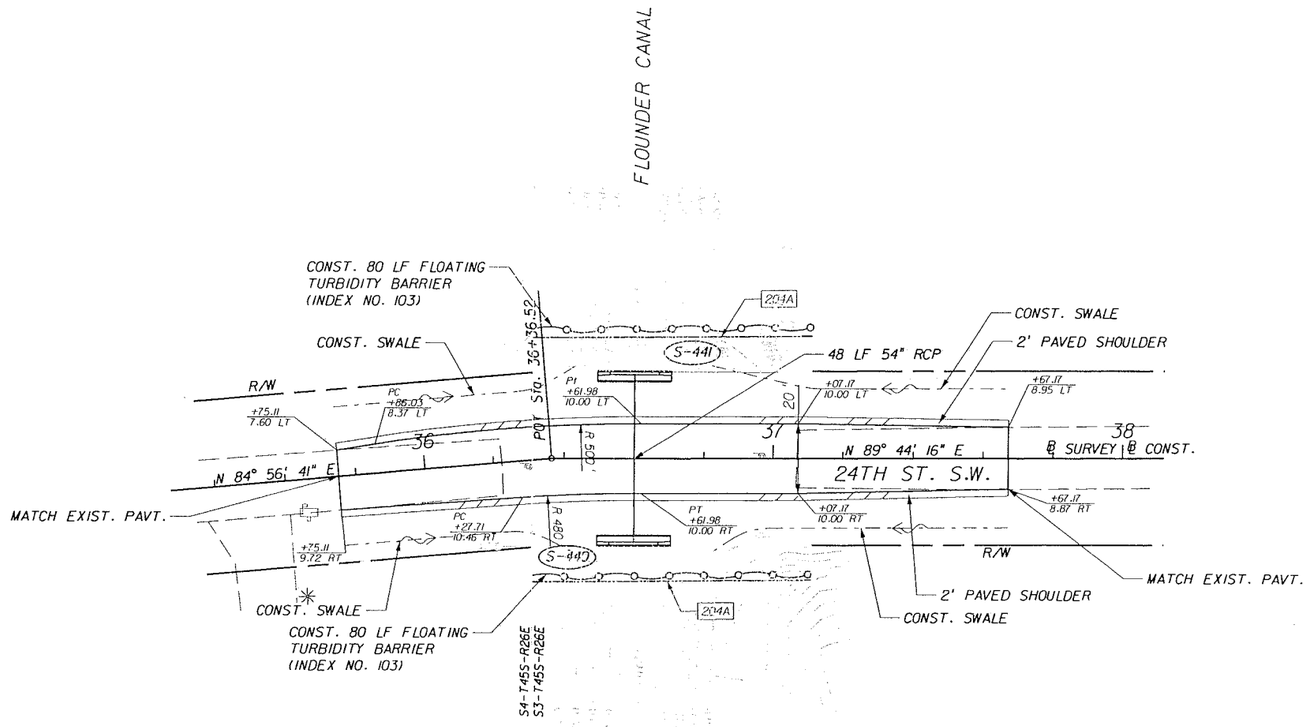
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

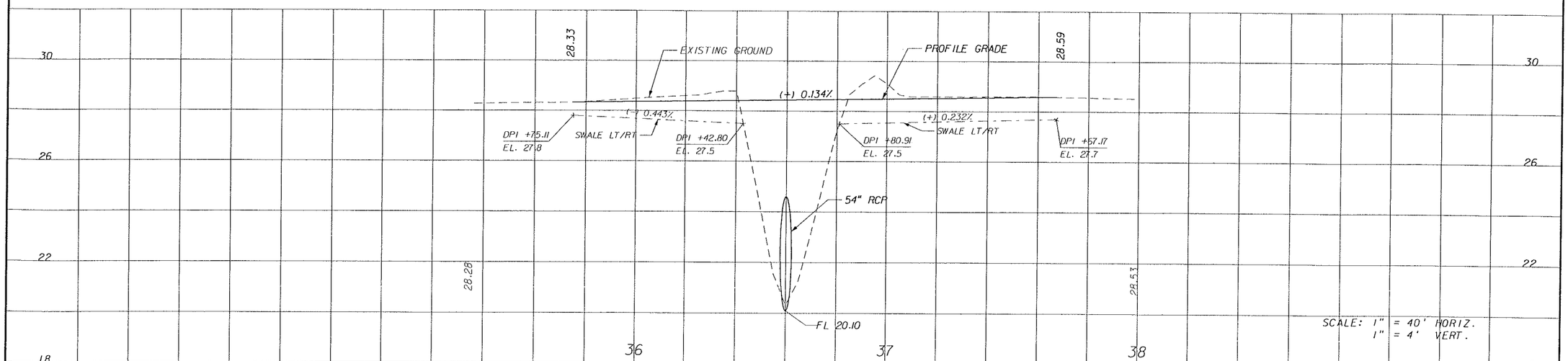
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
27TH STREET S.W.

SHEET NO. 52

09/13/2005 07:36:30 AM P:\99012.201\cadd\roadway\plprrd25.dgn





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEGRAM · HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
24TH STREET S.W.

SHEET NO. 53

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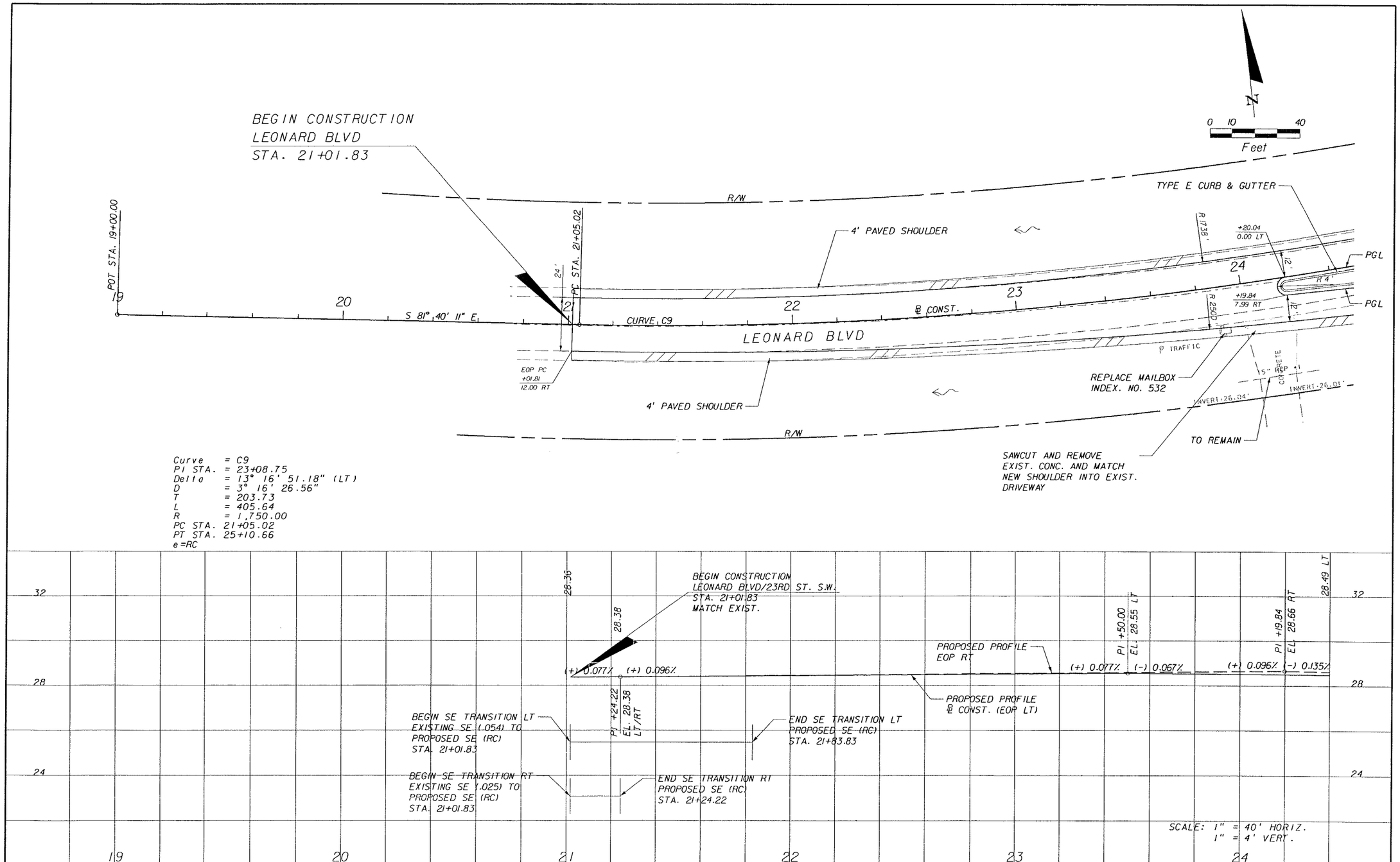

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANS HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
LEONARD BLVD

SHEET NO. 54

09/13/2005 07:36:33 AM P:\99012.201\cadd\roadway\plprrd27.dgn

N

0 10 40

Feet

R/W

MATCH EXIST. PAVT.

GRETCHEN AVE.

4' TYPE I CONC. TRAFFIC SEPARATOR

TYPE E CURB & GUTTER

R 1738'

STA. 25+10.66 PT

CURVE C9

25 PGL 26 27 28 PGL 29

℄ CONST.

N 85° 02' 58" E

+35.56 0.00 RT

+00.65 12.00 LT

+25.65 37.01 LT

+44.65 36.99 LT

+69.65 12.00 LT

+19.58 1.50 RT

+19.58 5.50 RT

+00.00 12.00 LT

R 25'

4' PAVED SHOULDER

STA. 136+62.02 ℄ CONST. =
STA. 30+00.00 ℄ CONST.

R 50'

GUNNERY RD.

INVERT-24.99'

INVERT-24.96'

CMP ±3

56"x36"

PALMETTOS & PEPPERS

108A

S-302

S-303

S-300

S-301

S-114

137

136

30

LEONARD BLVD

12'

19'

25.5'

+35.56 7.00 RT

+85.56 17.32 RT

+69.72 31.00 RT

+98.83 31.00 RT

+12.00 31.00 RT

+99.72 31.00 RT

EOP PT +77.07 31.00 RT

R 2500'

TRAFFIC

SEE SHEET 77 FOR GRADING DETAILS

FLARED END (TYP.)

TYPE F CURB & GUTTER

+24.72 55.97 RT

+44.72 56.03 RT

MATCH EXIST. PAVT.

R/W

Curve = C9
PI STA. = 23+08.75
Delta = 13° 16' 51.18" (LT)
D = 3° 16' 26.56"
T = 203.73
L = 405.64
R = 1,750.00
PC STA. 21+05.02
PT STA. 25+10.66
e=RC

28.49 LT
28.63 RT

PROPOSED PROFILE EOP RT

(-) 0.135%

PROPOSED PROFILE ℄ CONST. (EOP LT)

(-) 0.067%

PI +50.00
EL. 28.35
LT/RT

PROPOSED PROFILE ℄ CONST.& EDGE OF THRU LANE RT

(+) 0.040%

(+) 0.480%

(+) 1.027%

PGL LT
PI +87.00
EL. 29.07

PI +00.00
EL. 29.45

PI +50.00
EL. 28.69

24" RCP

30" RCP

19"x30" ERCP

FL 22.73

FL 22.58

FL 22.58

FL 22.58

32

28

24

25 26 27 28 29 30

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/26/06	JW	REV. PGL 26+50-30+00 AND INTERSECTION GRADING			

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

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(239) 936-6466

George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE LEONARD BLVD

SHEET NO. 55

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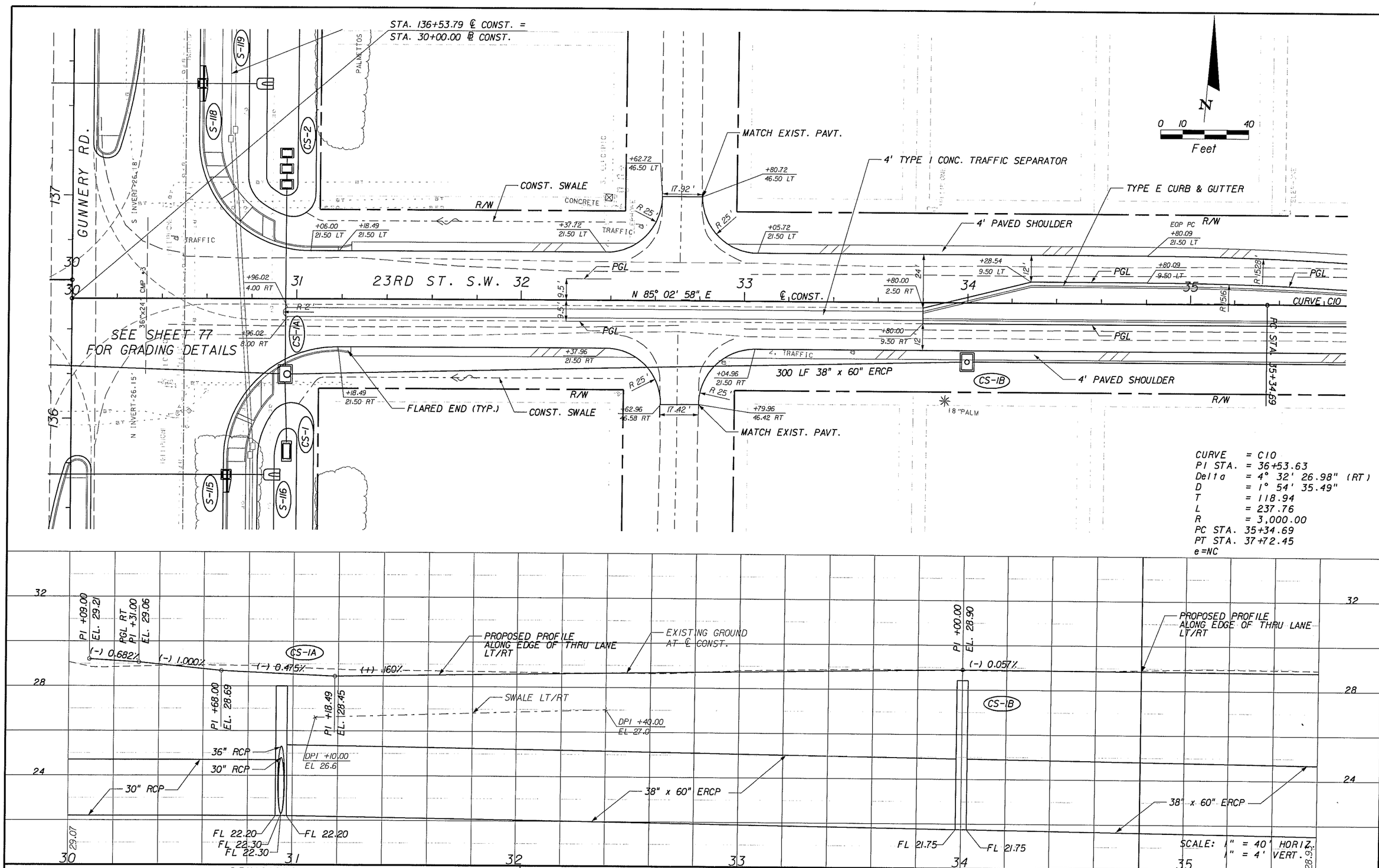

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/26/06	JW	REV. PGL 30+00-34+00 AND INTERSECTION GRADING			

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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George R. Brinson, P.E. •47607

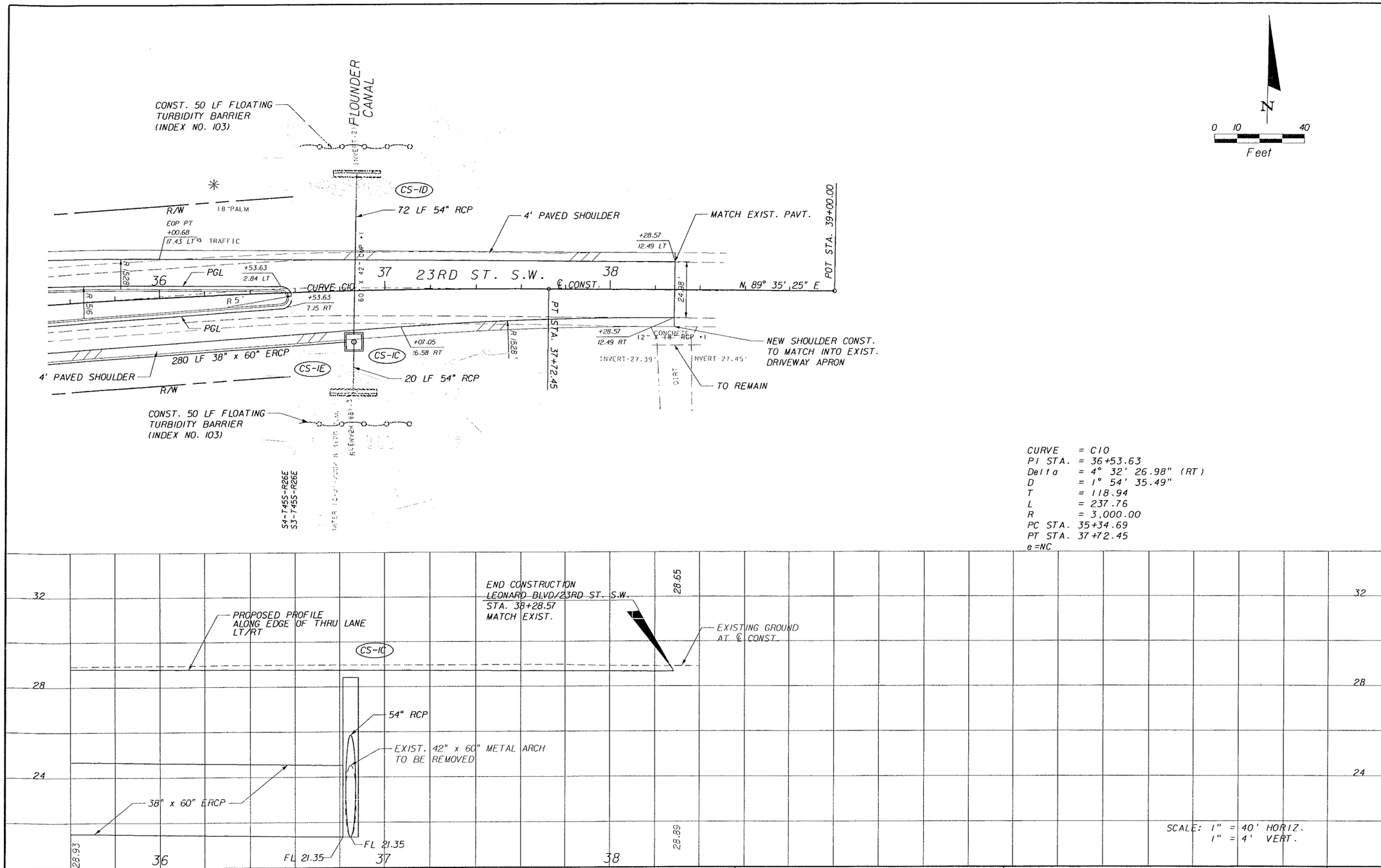
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
23RD STREET S.W.

SHEET NO. 56

04/27/2006 12:20:55 PM p:\99012.201\cadd\roadway\plprrd29.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
23RD STREET S.W.

SHEET NO. 57

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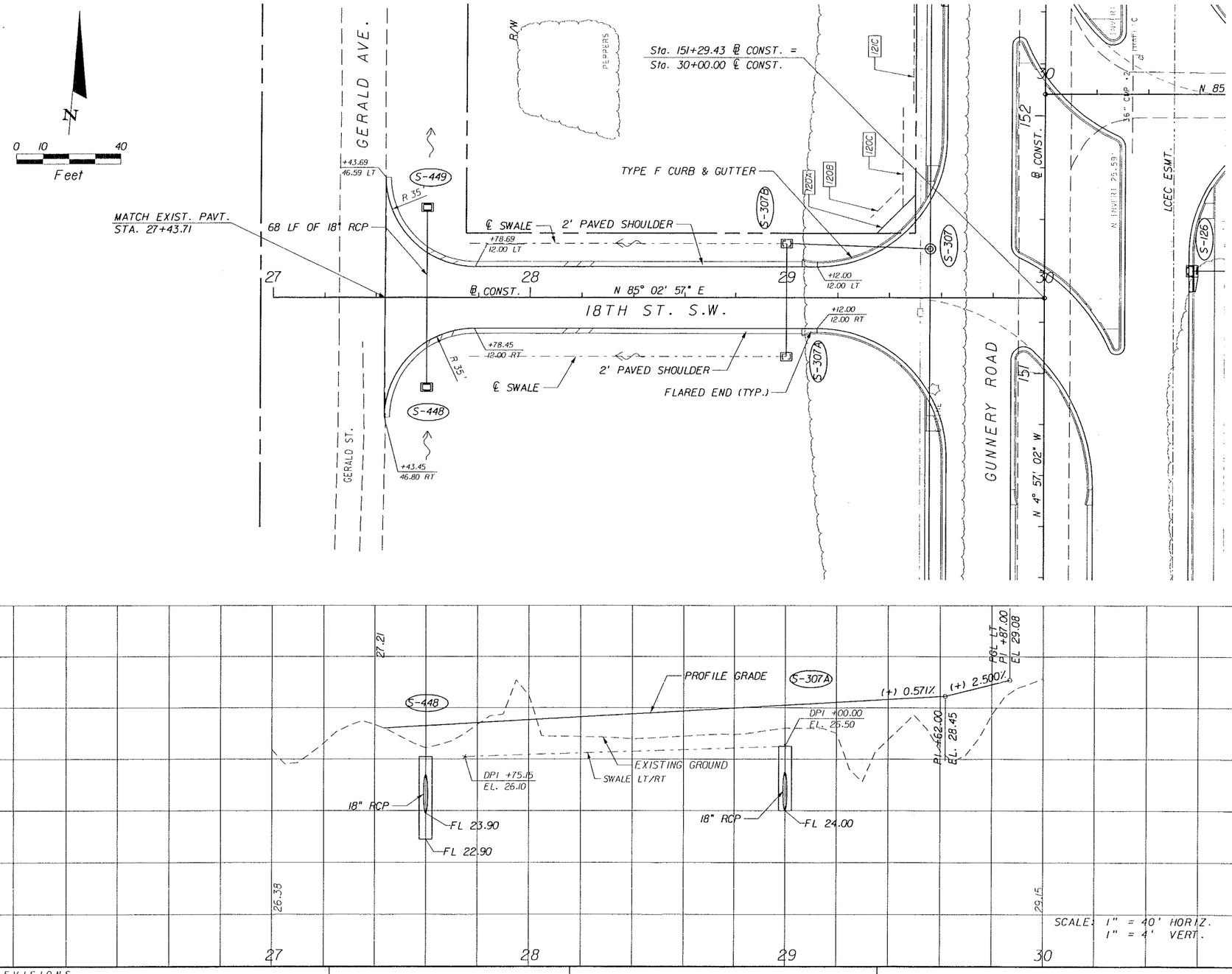

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMAN, HARTMANN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
18TH STREET S.W.

SHEET NO. 58

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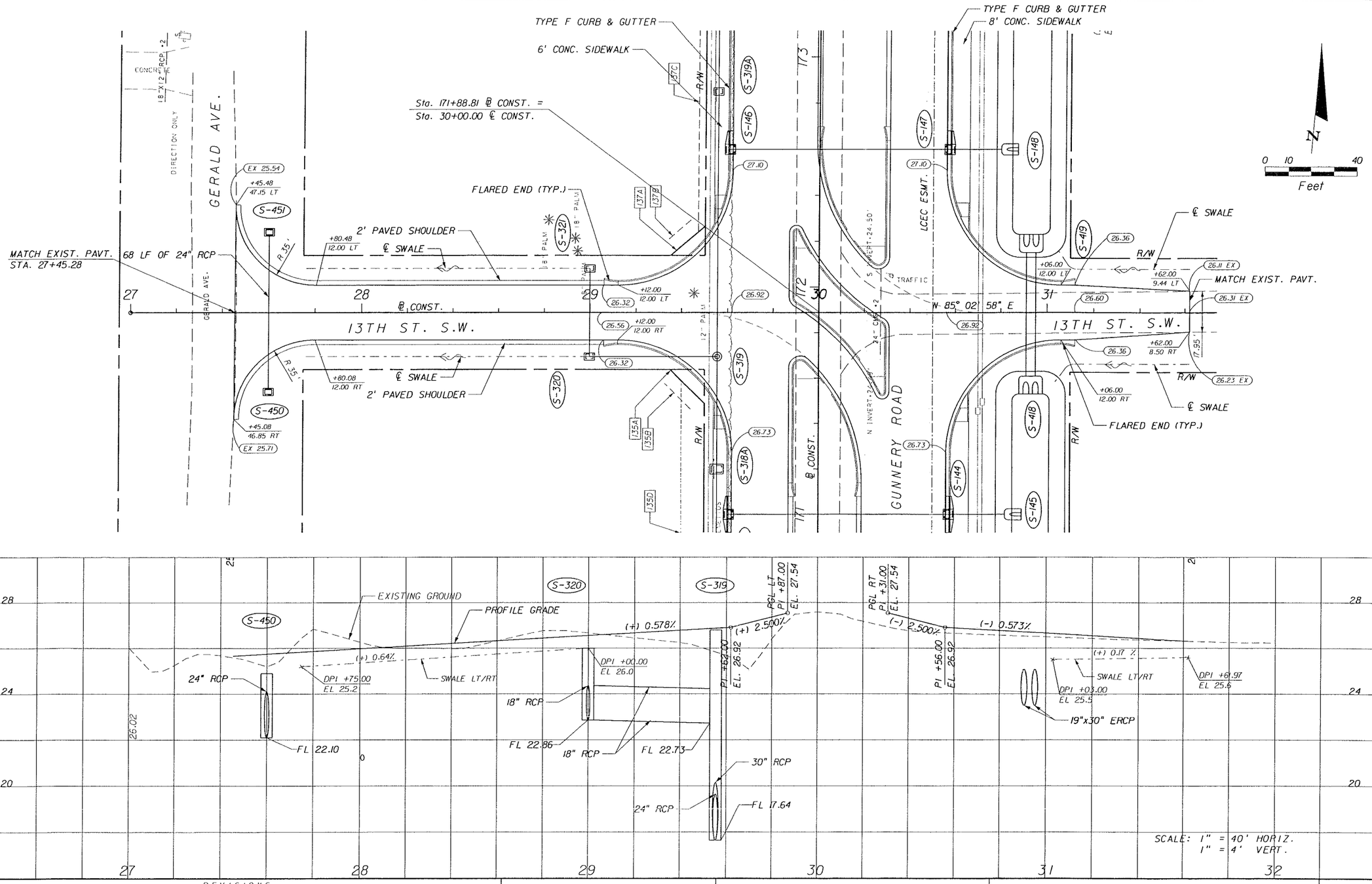

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PETMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
13TH STREET S.W.

SHEET NO.
59

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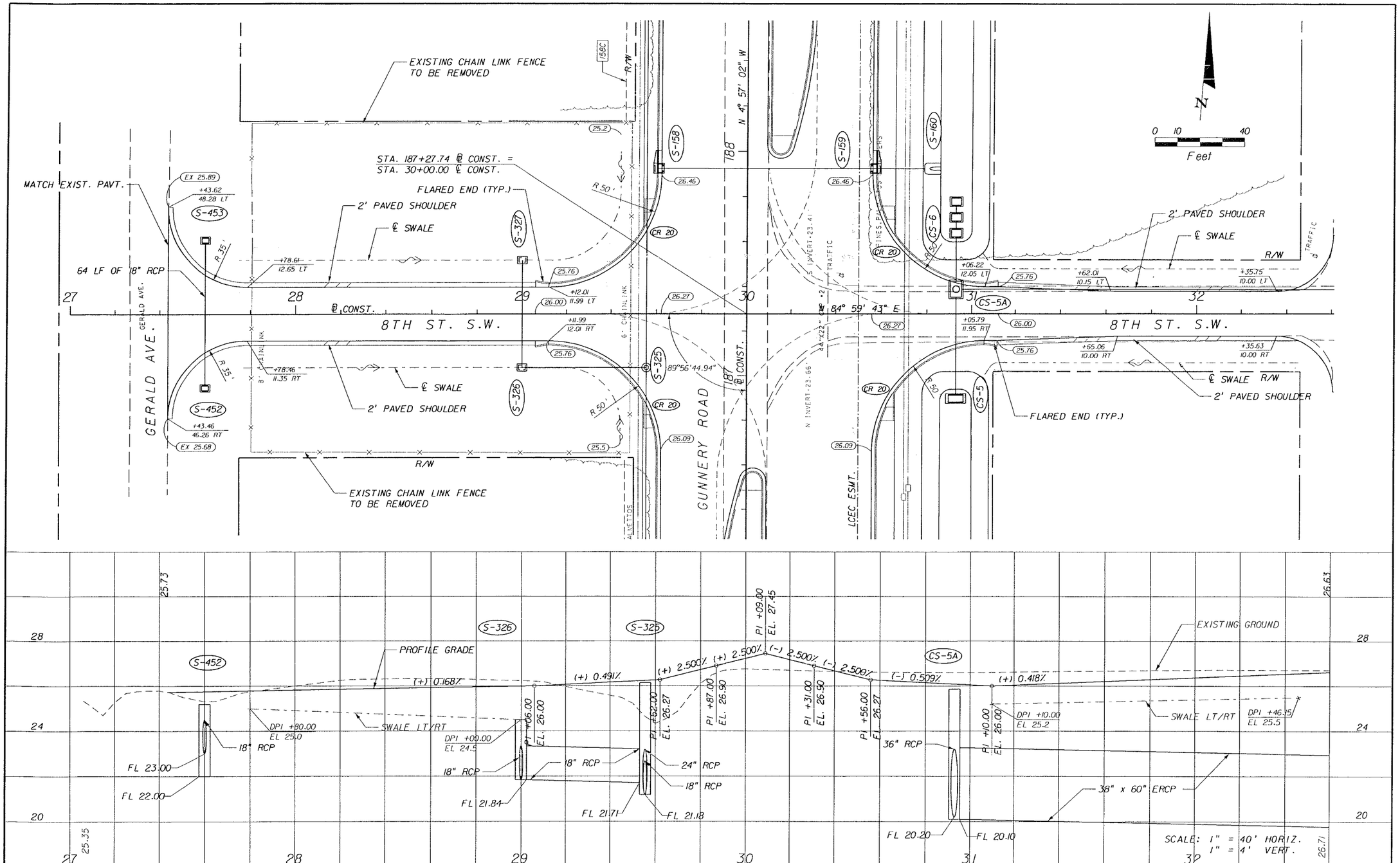

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN, BAKTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
8TH STREET S.W.

SHEET NO. 60

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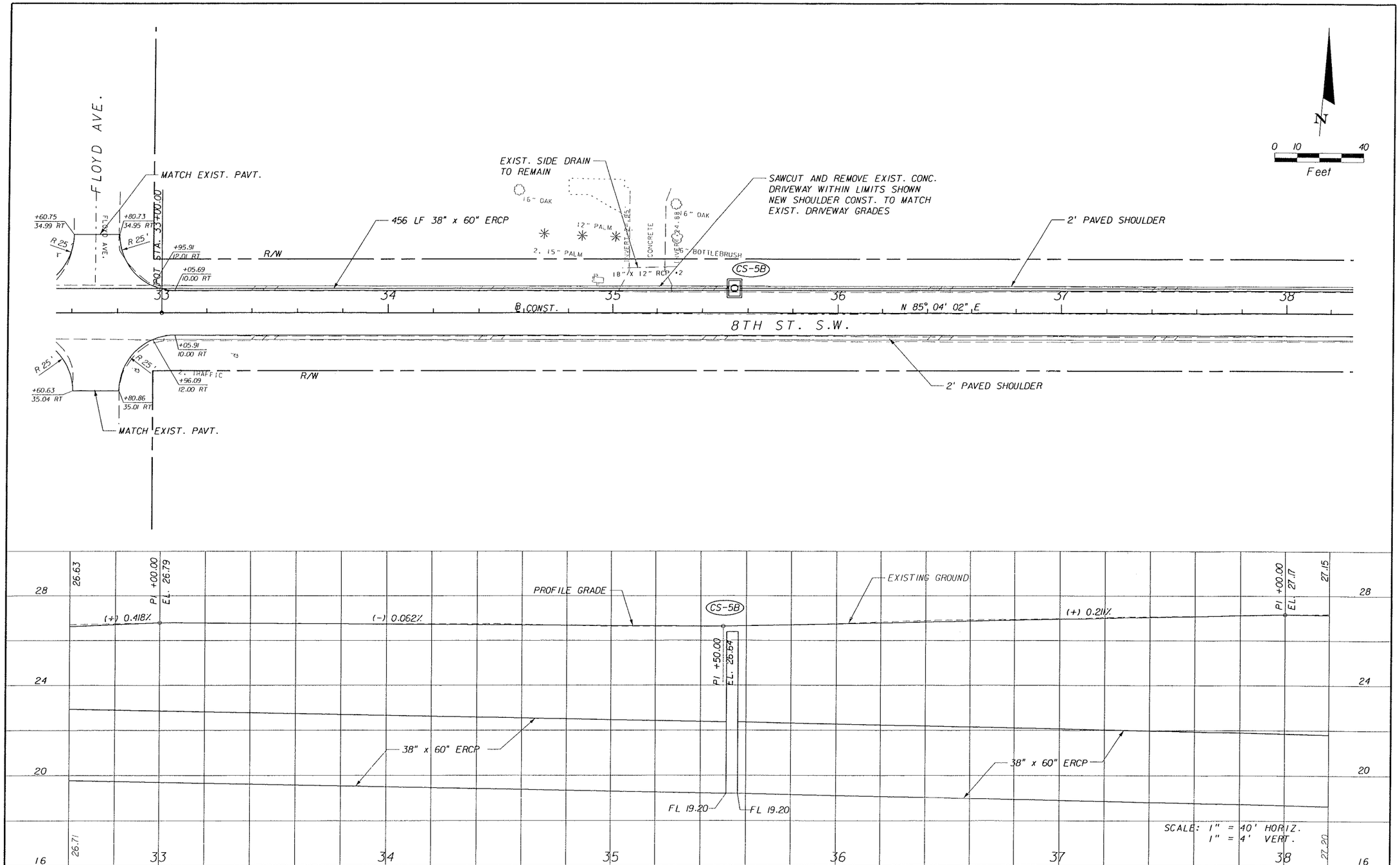

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIMMER HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
8TH STREET S.W.

SHEET NO. 61

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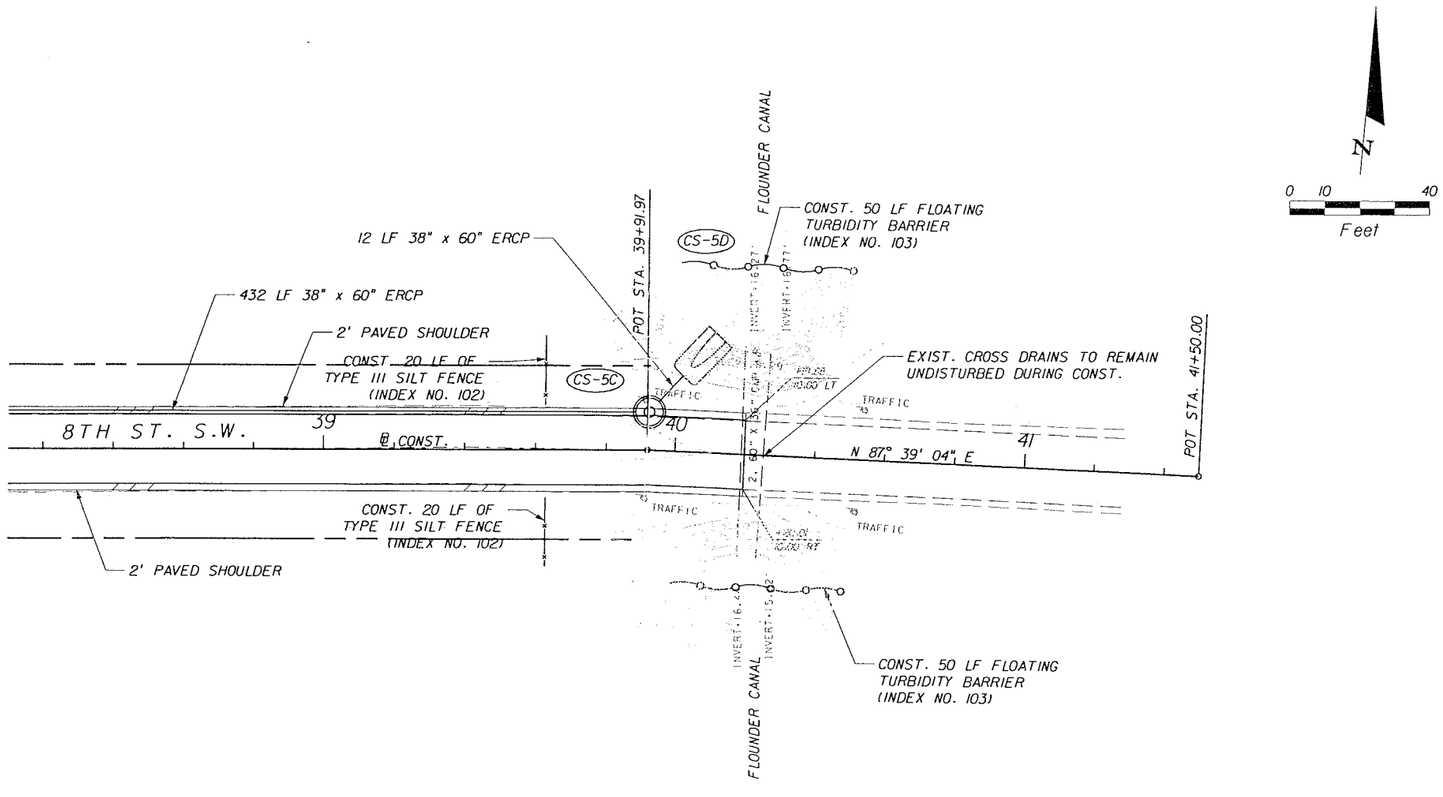

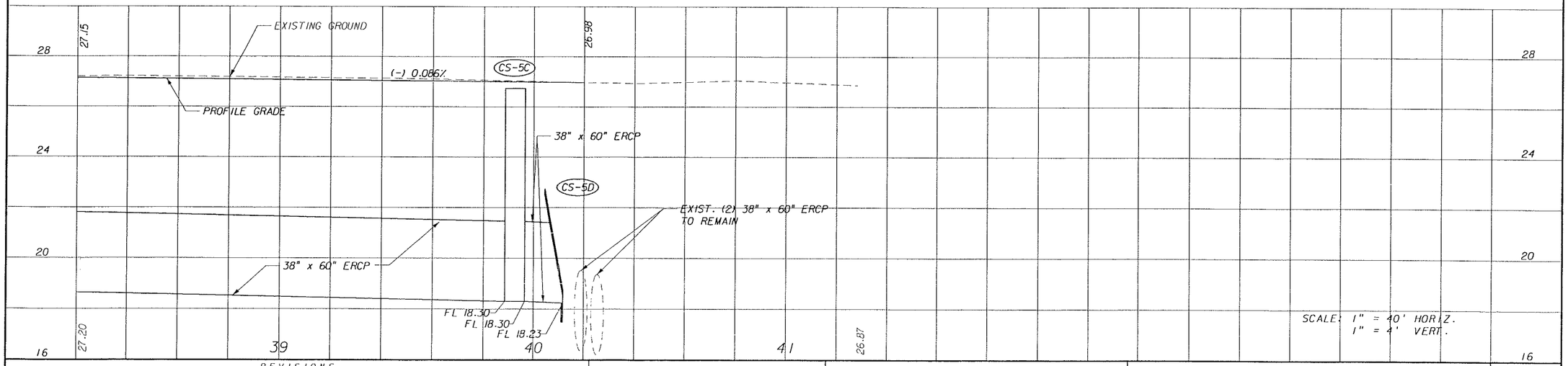

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN-HASTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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George R. Brinson, P.E. #47607

LEE COUNTY
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
8TH STREET S.W.

SHEET NO. 62

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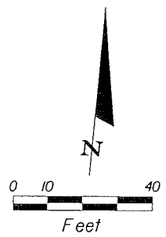

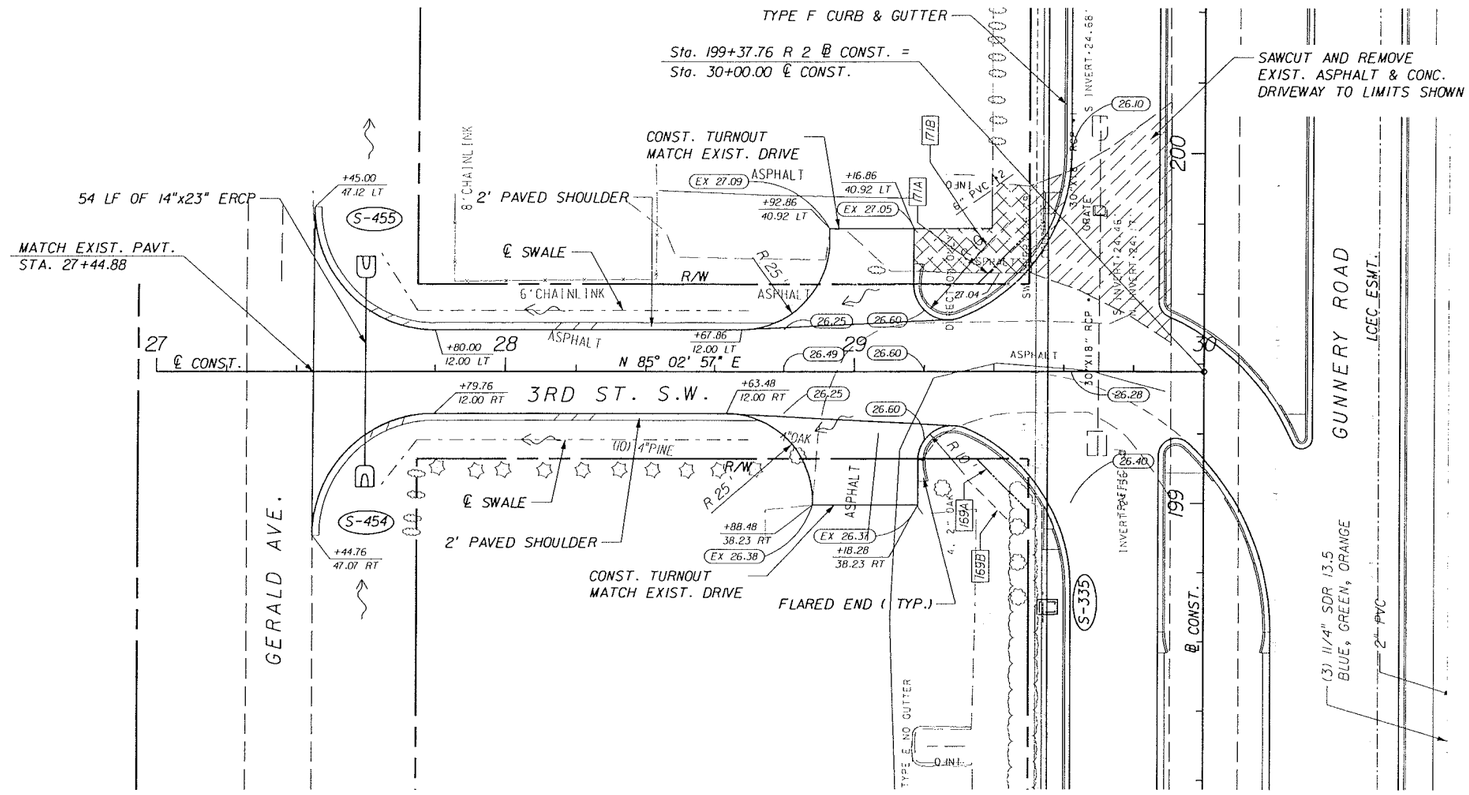

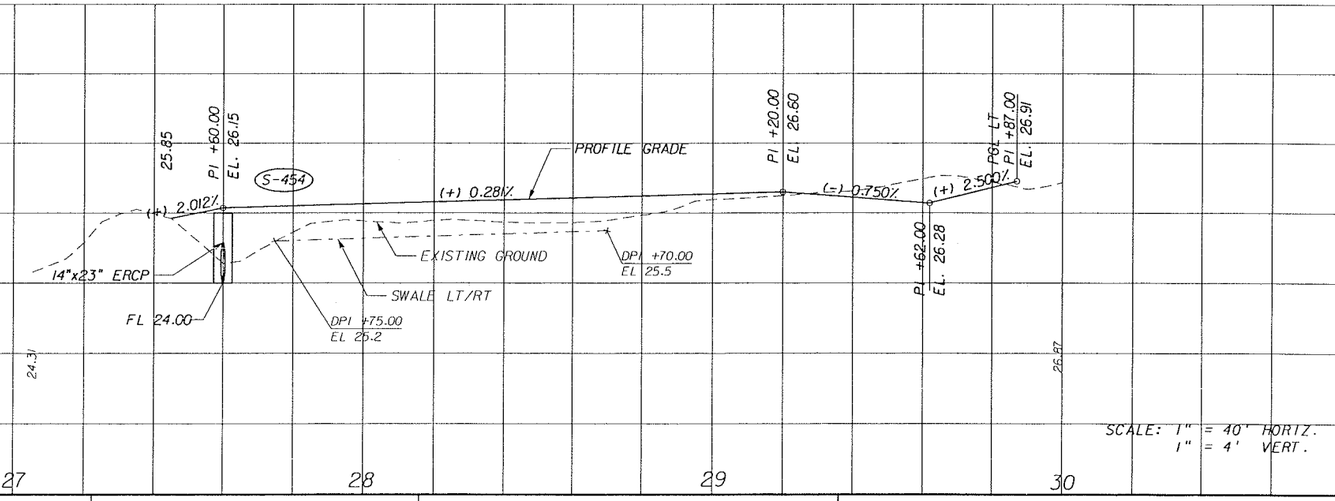

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROXLER & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
3RD STREET S.W.

SHEET NO. 63

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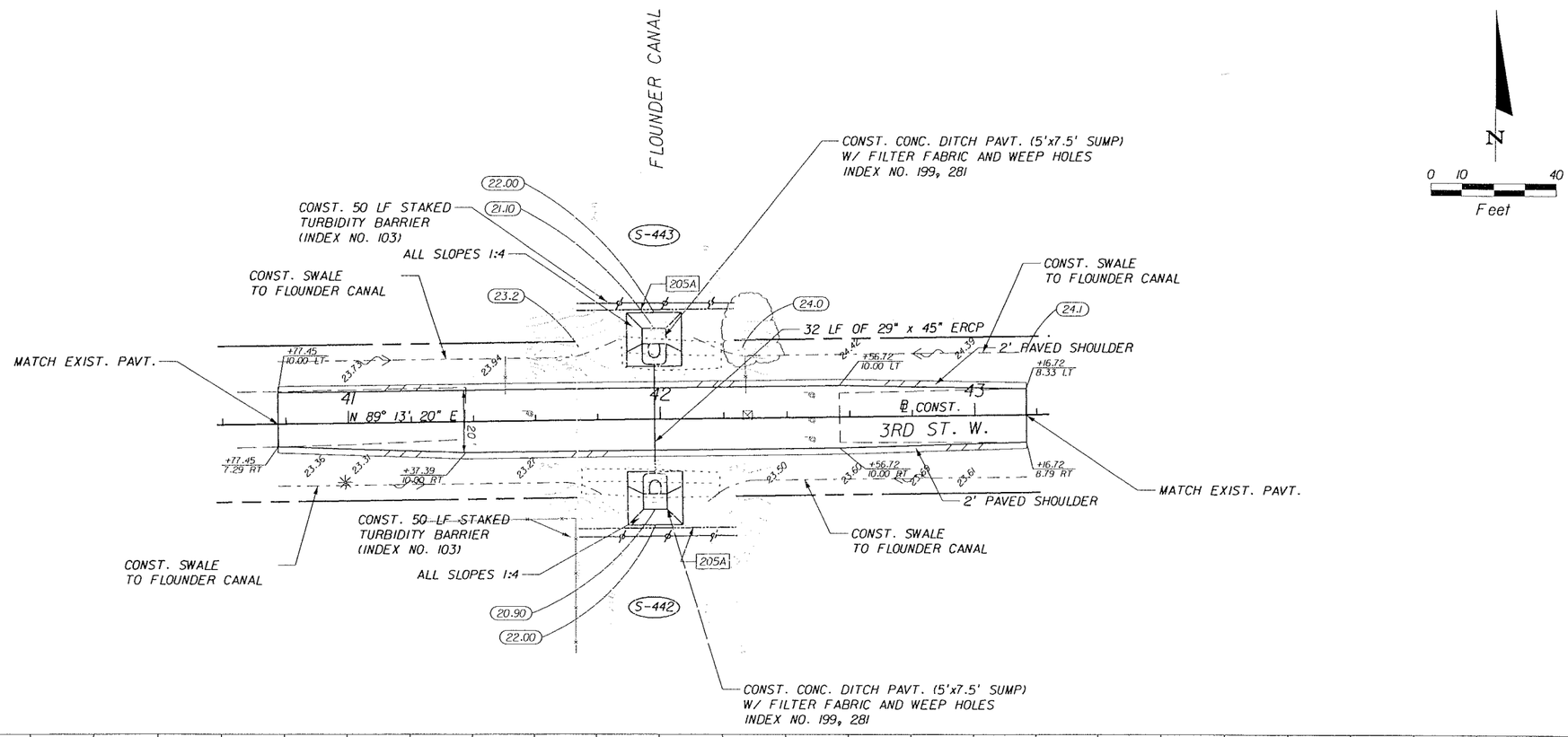

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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George R. Brinson, P.E. #47607

LEE COUNTY
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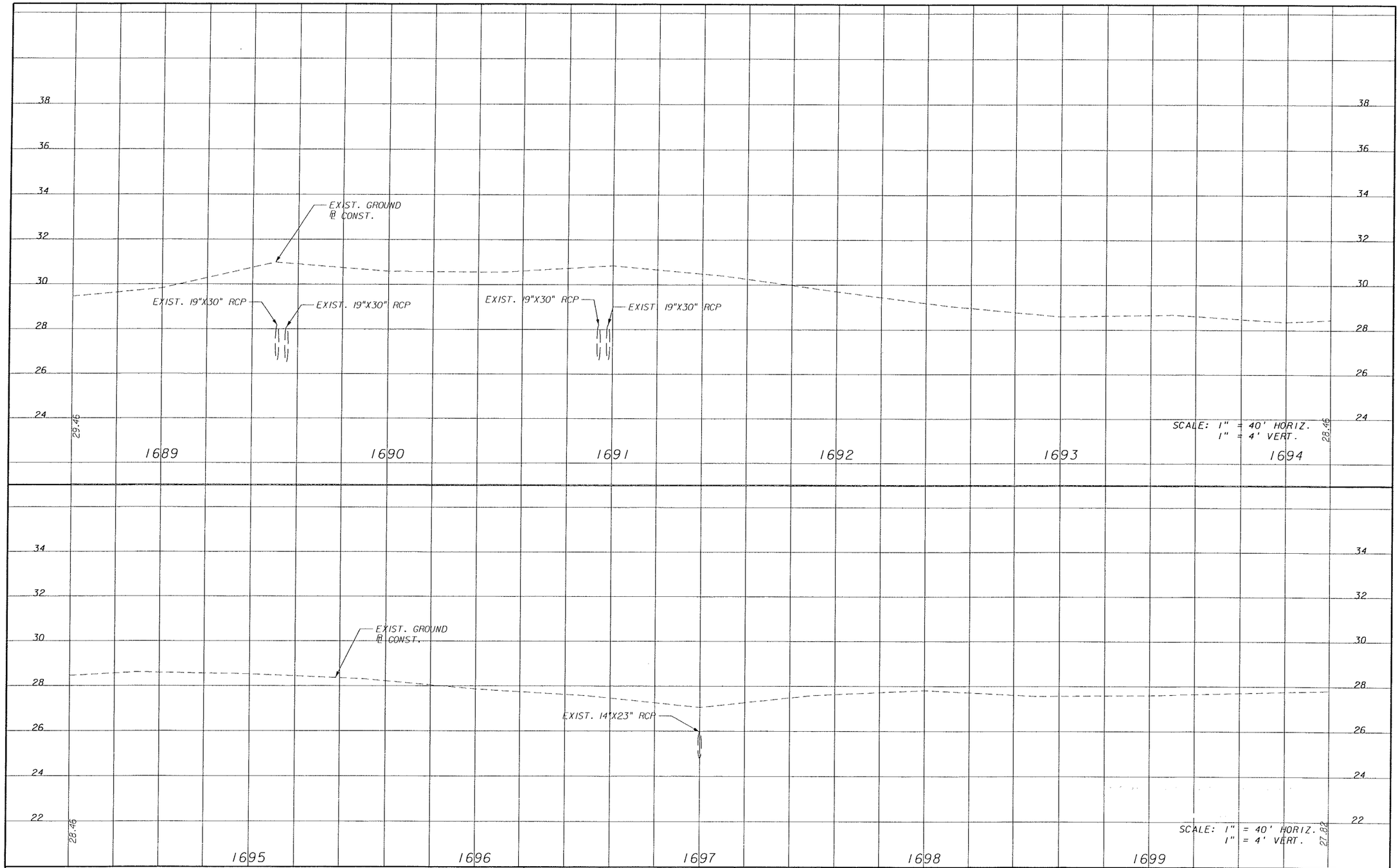
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
3RD STREET W.

SHEET NO. 64



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMAN & HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
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George R. Brinson, P.E. #47607

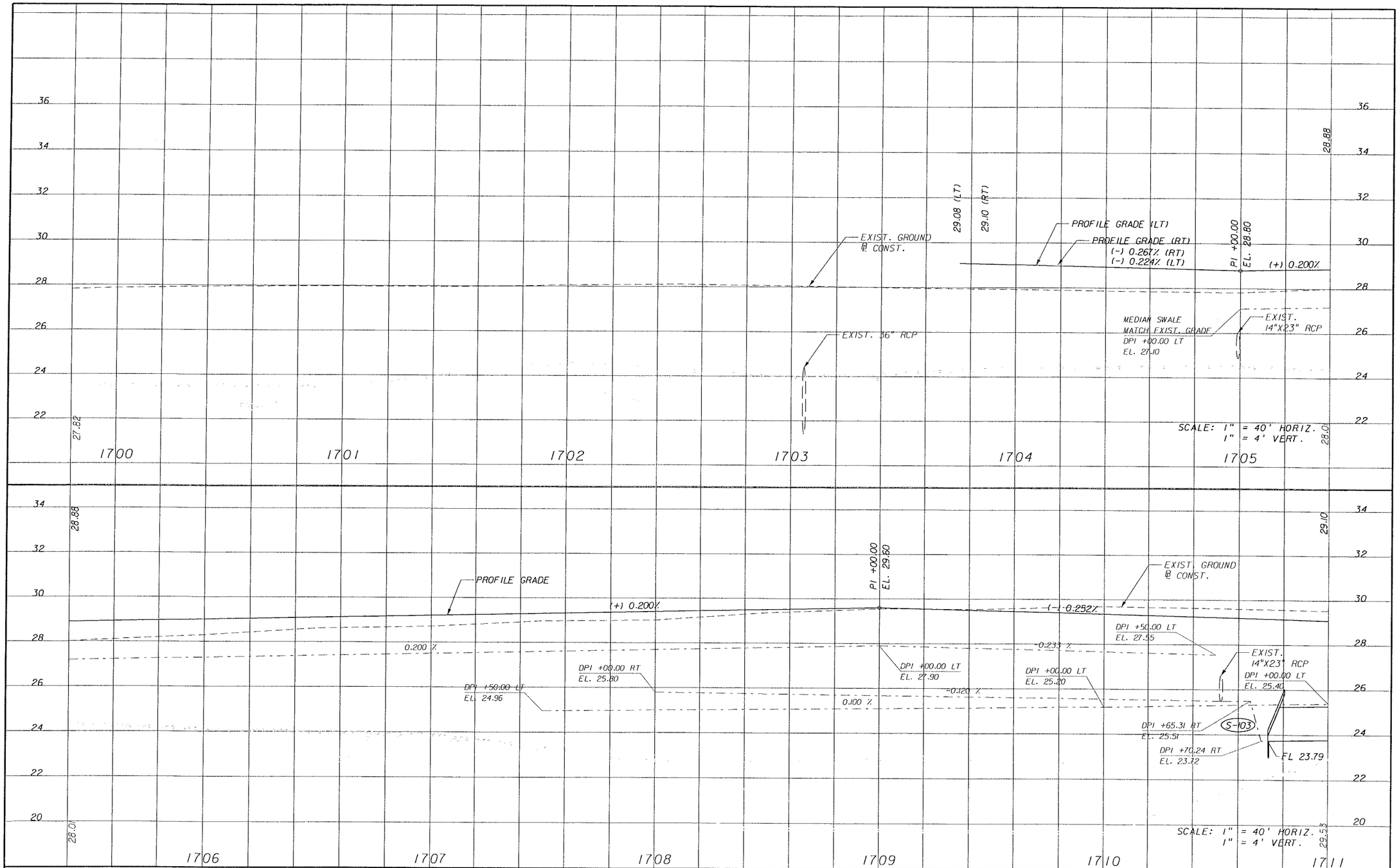
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PROFILE

SHEET NO. 65

09/13/2005 07:36:50 AM P:\99012.201\cadd\roadway\prof1d02.dgn



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PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PROFILE

SHEET NO. 66

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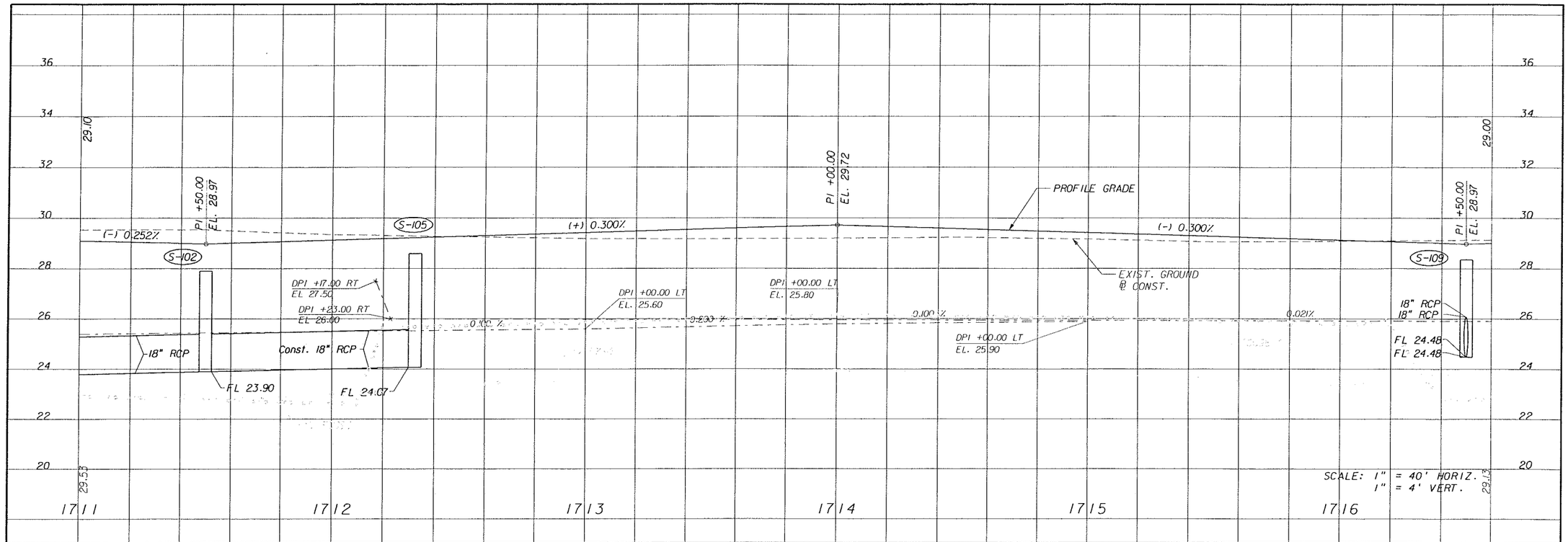

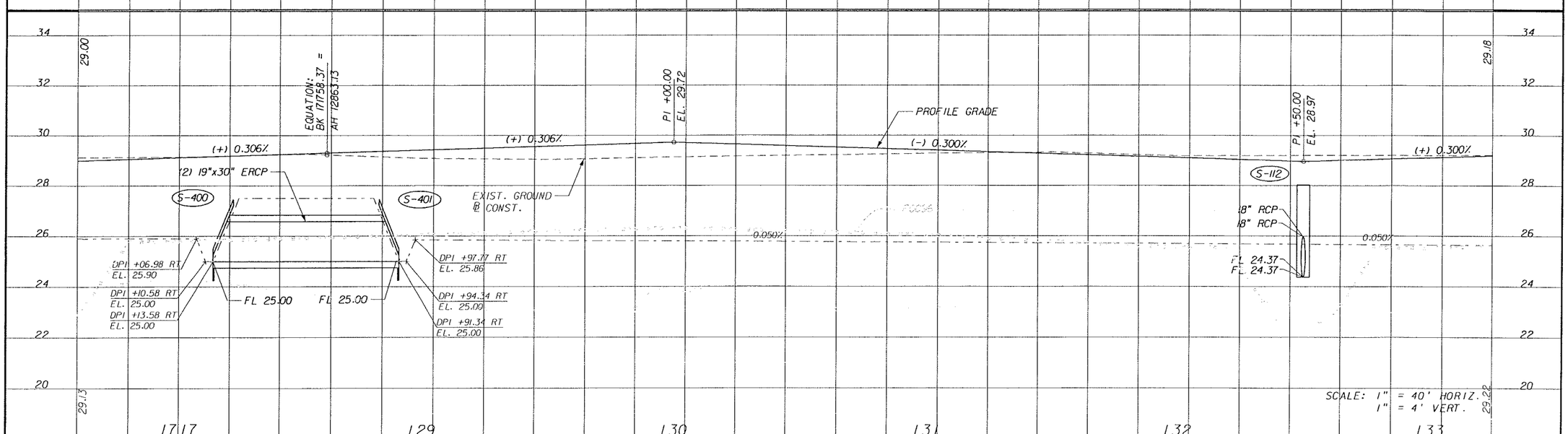

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4055	LEE	99012.201

PROFILE

SHEET NO. 67

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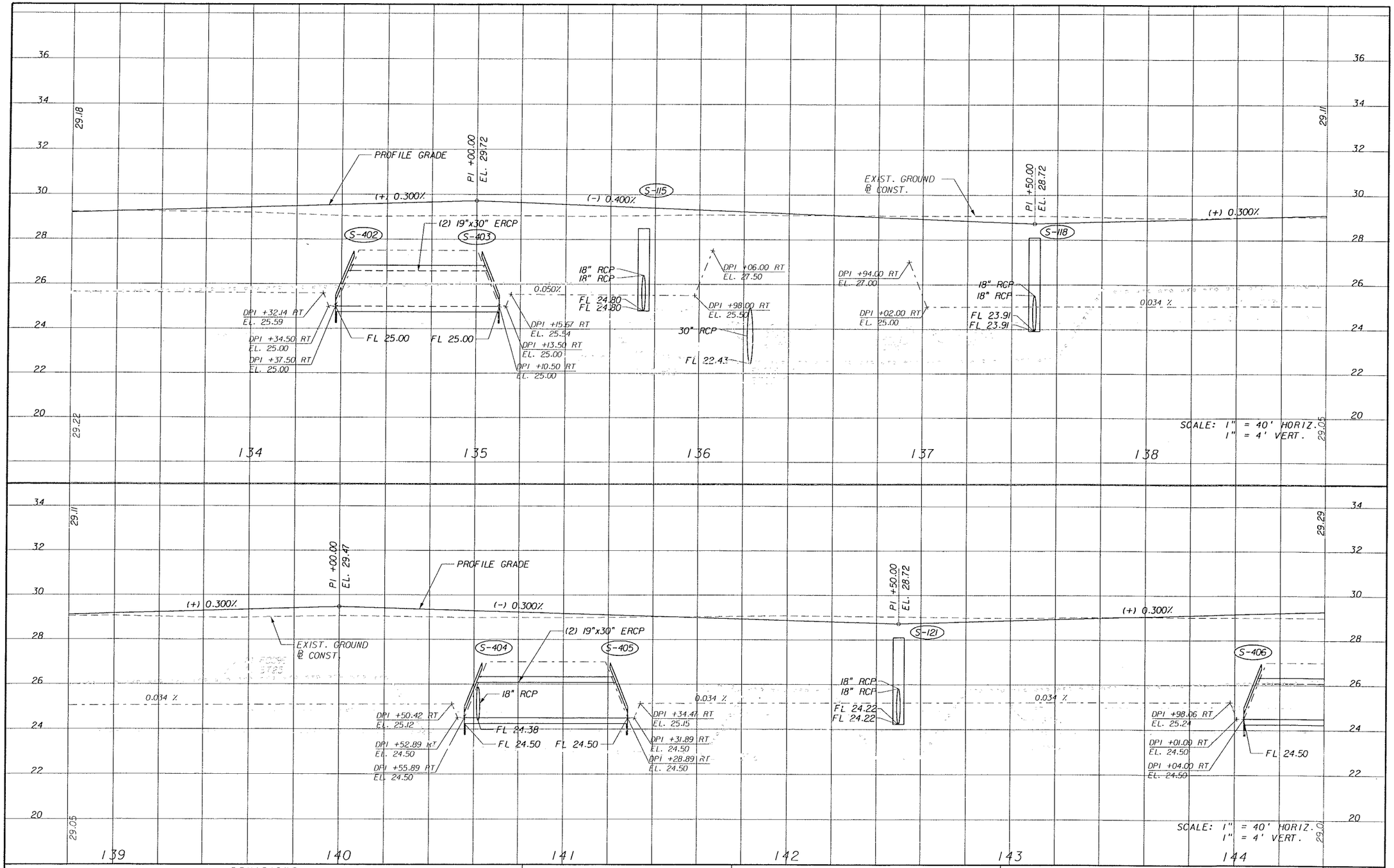

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4055	LEE	99012.201

PROFILE

SHEET NO.
68

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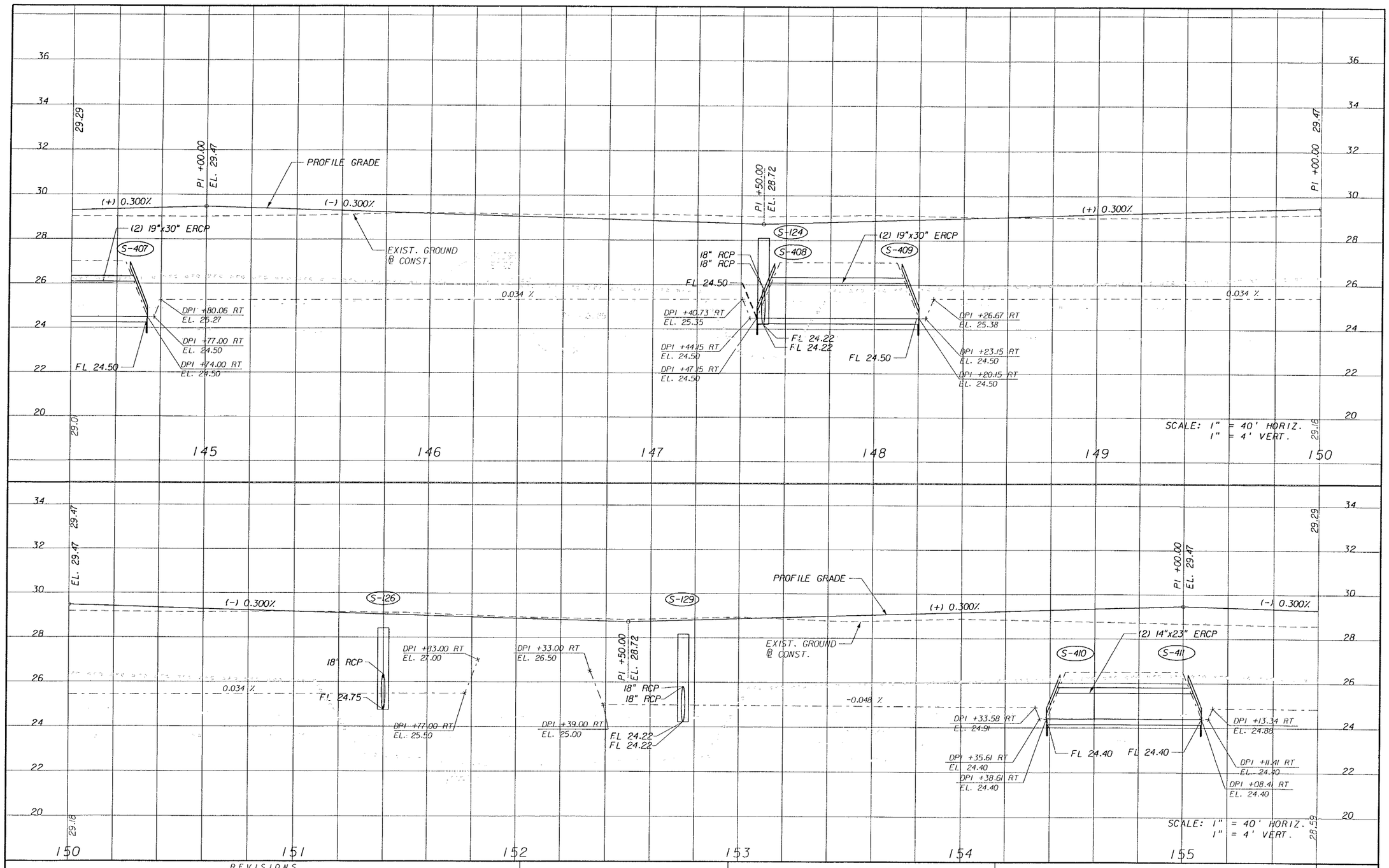

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4055	LEE	99012.201

PROFILE

SHEET NO. 69

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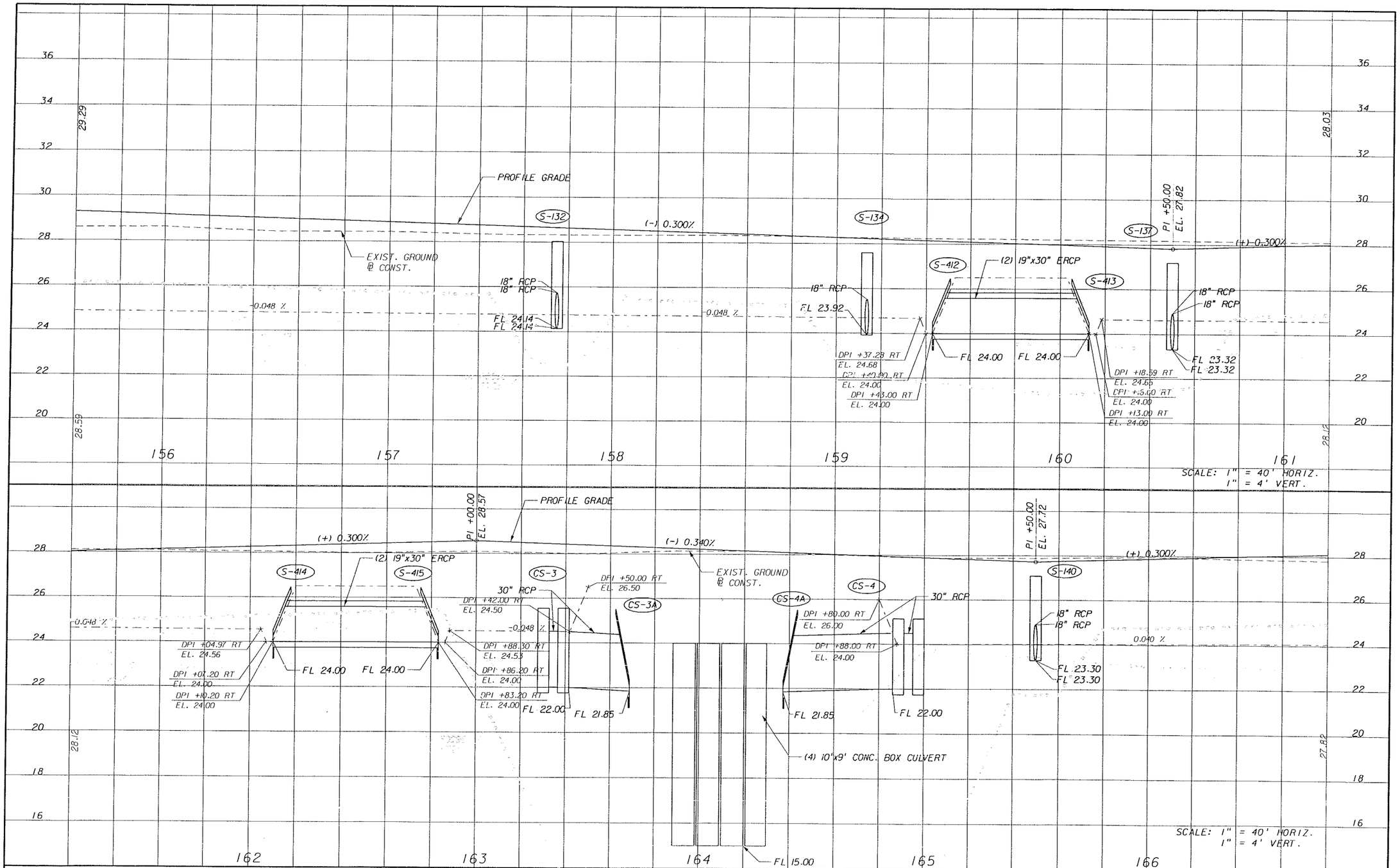

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4055	LEE	99012.201

PROFILE

SHEET NO. 70

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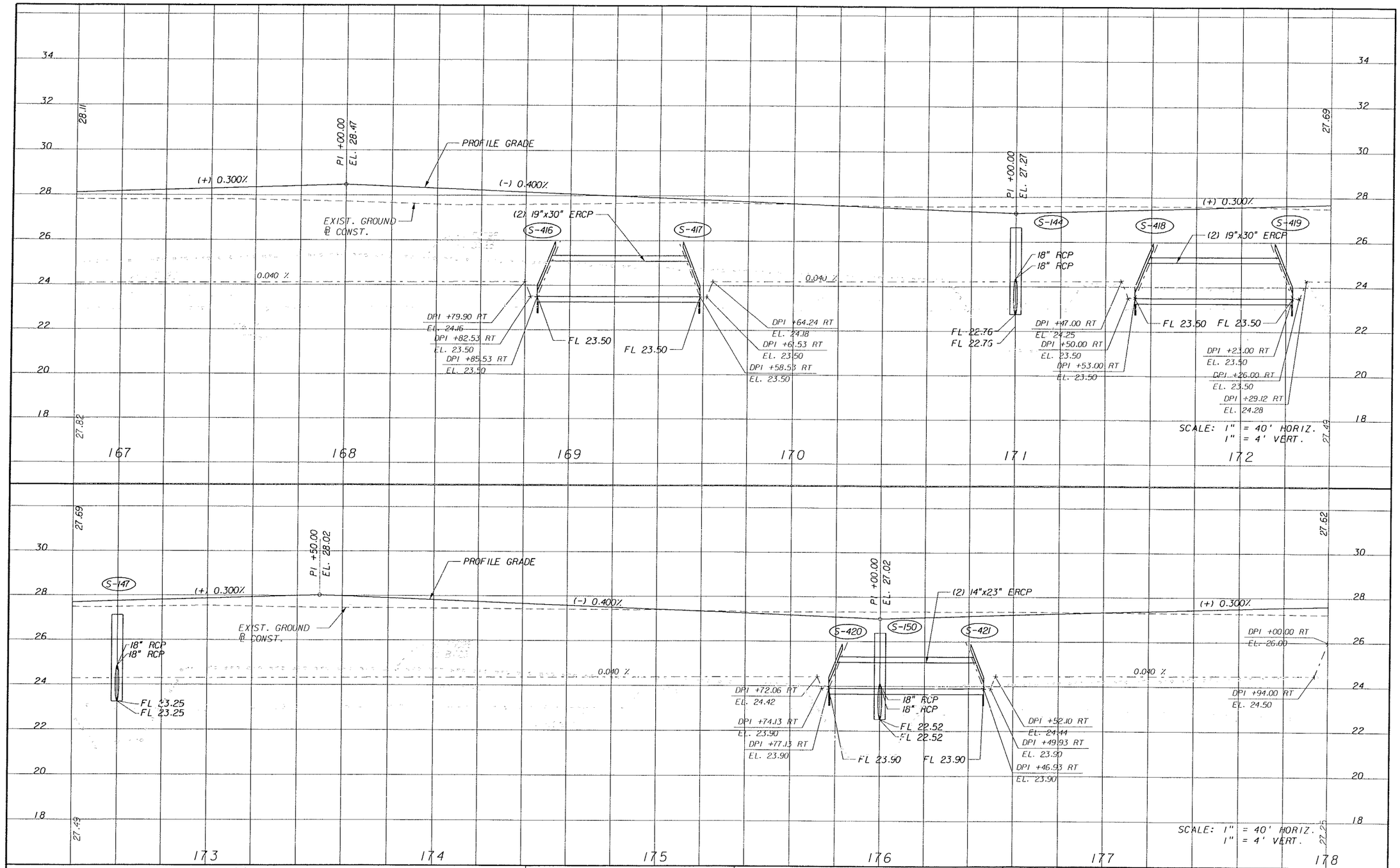

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4055	LEE	99012.201

PROFILE

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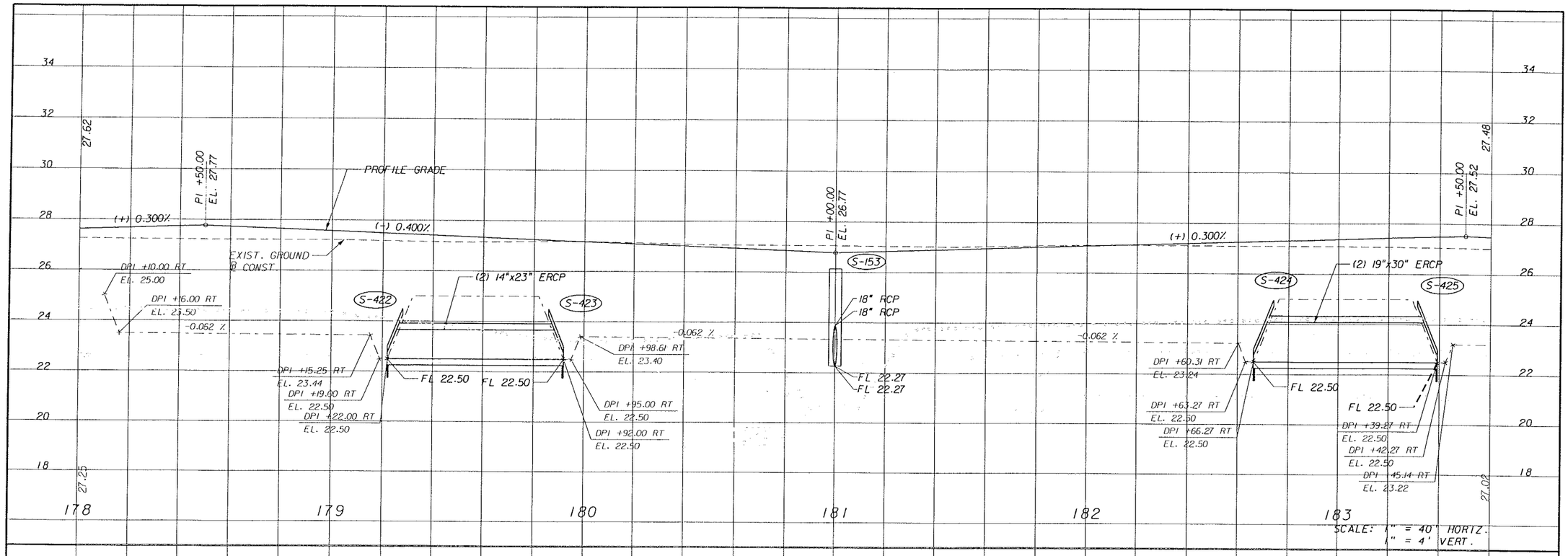

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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4055	LEE	99012.201

PROFILE

SHEET NO. 72

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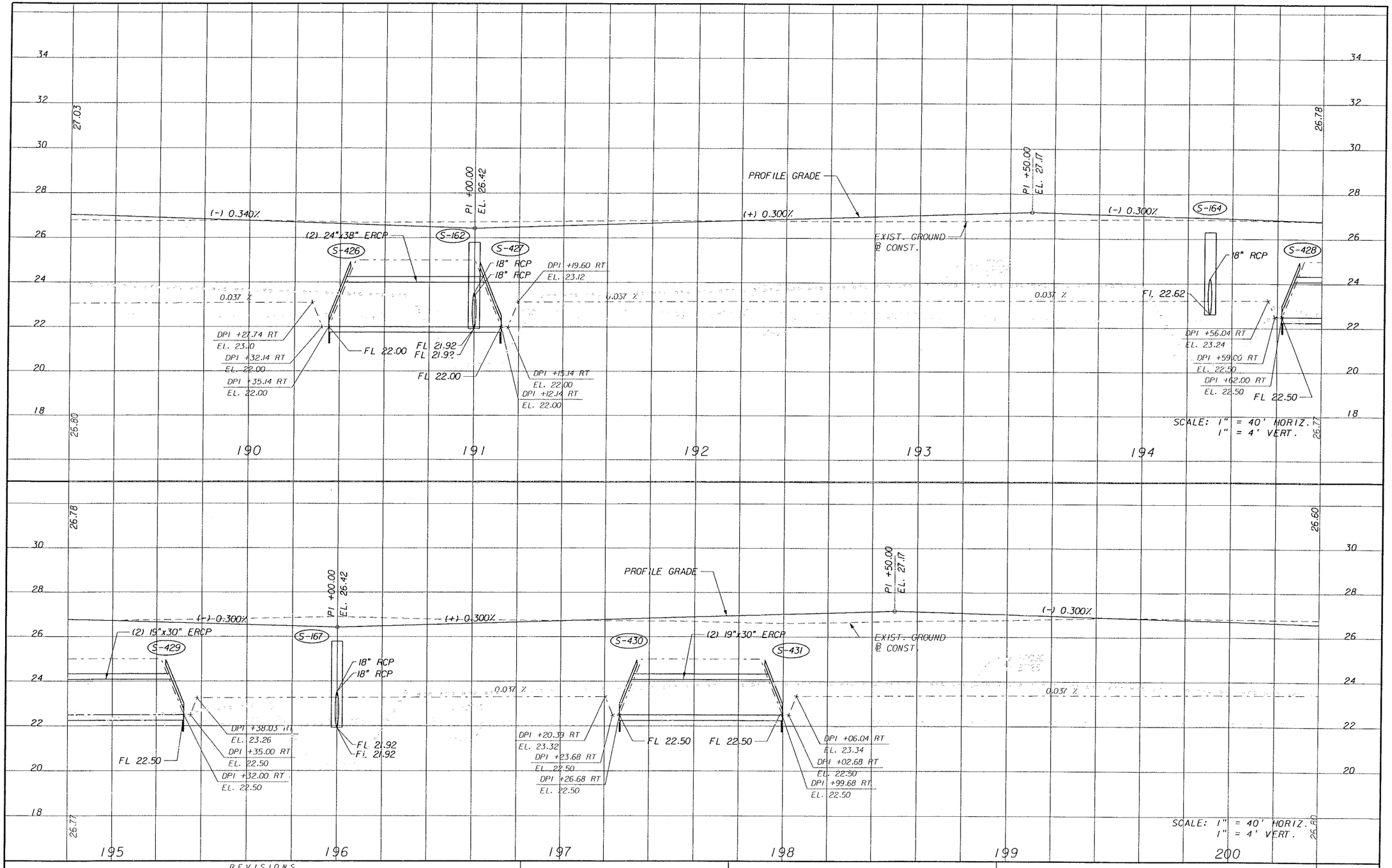

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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PROFILE

SHEET NO.
73

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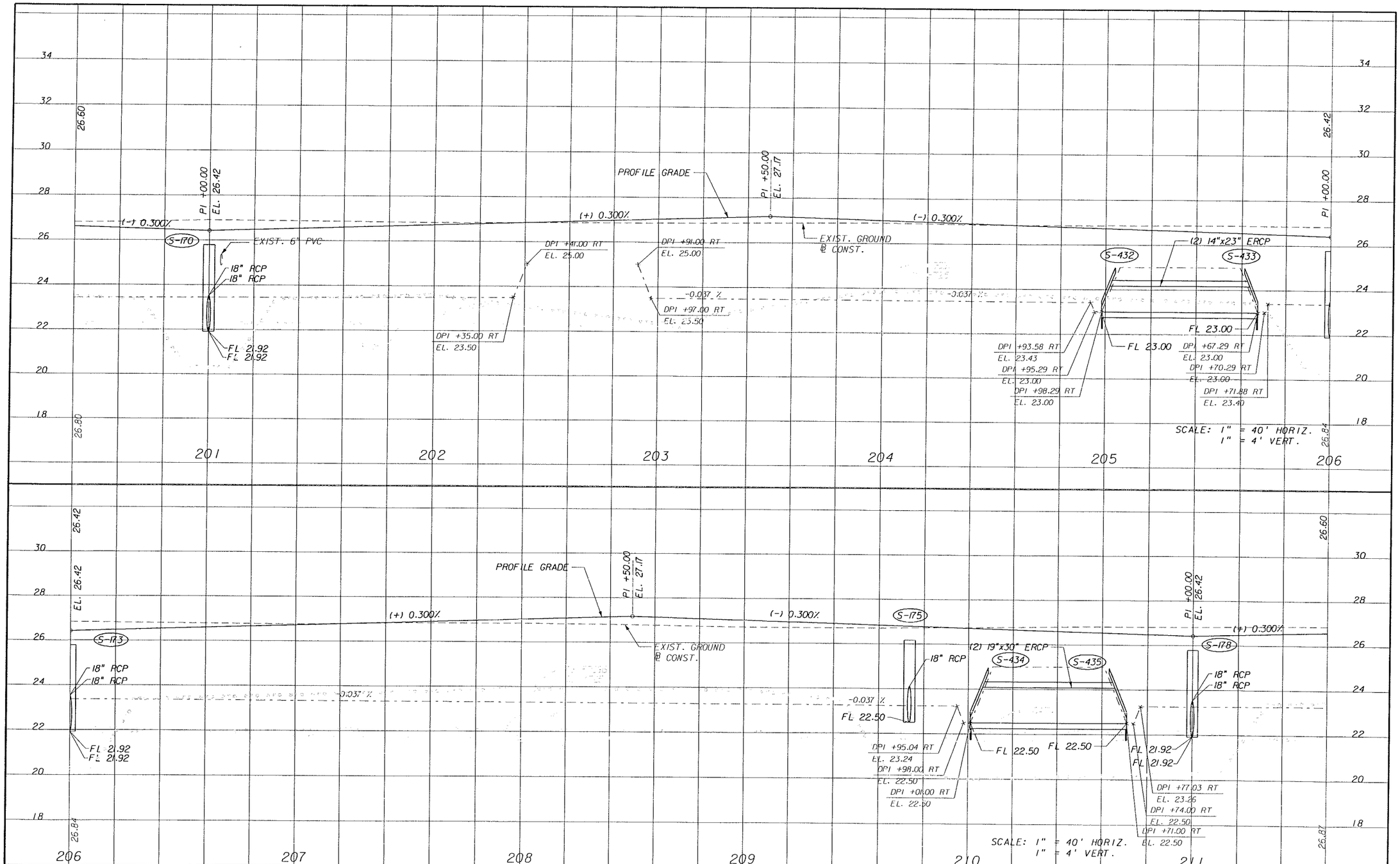

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4055	LEE	99012.201

PROFILE

SHEET NO.
74

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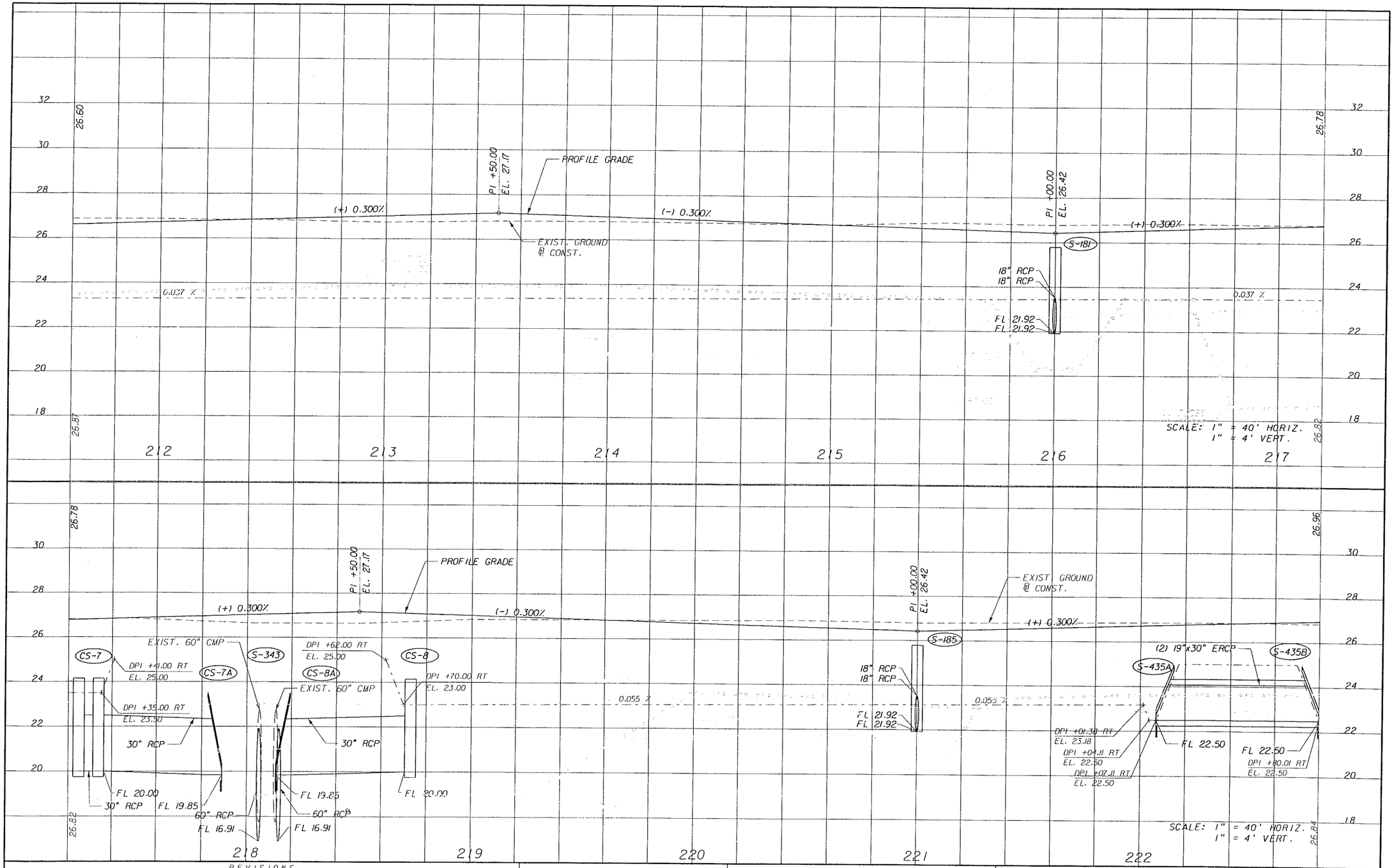

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

KISINGER CAMPO & ASSOCIATES, CORP.
ENGINEERS
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4055	LEE	99012.201

PROFILE

SHEET NO. 75

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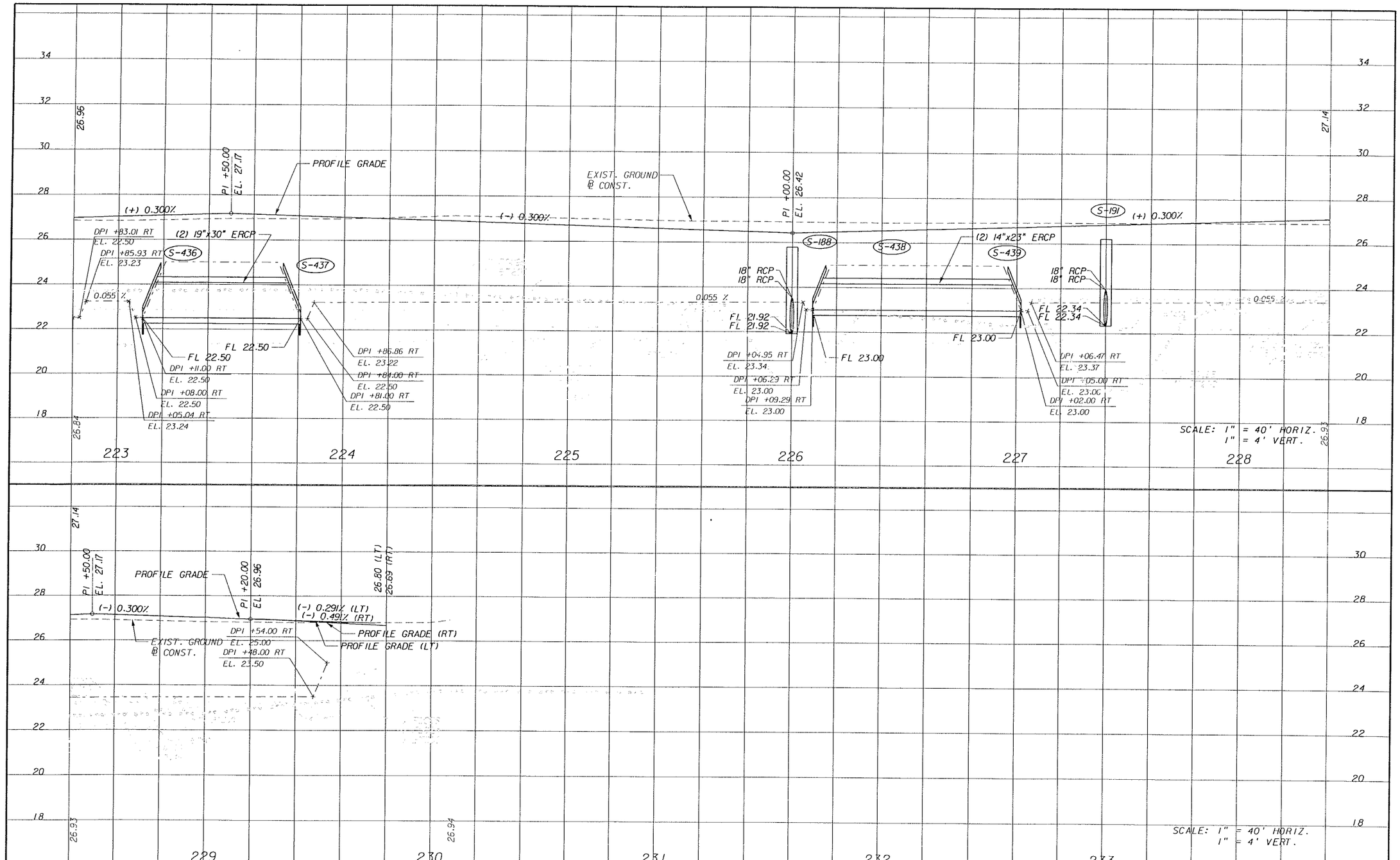

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PROFILE

SHEET NO. 76

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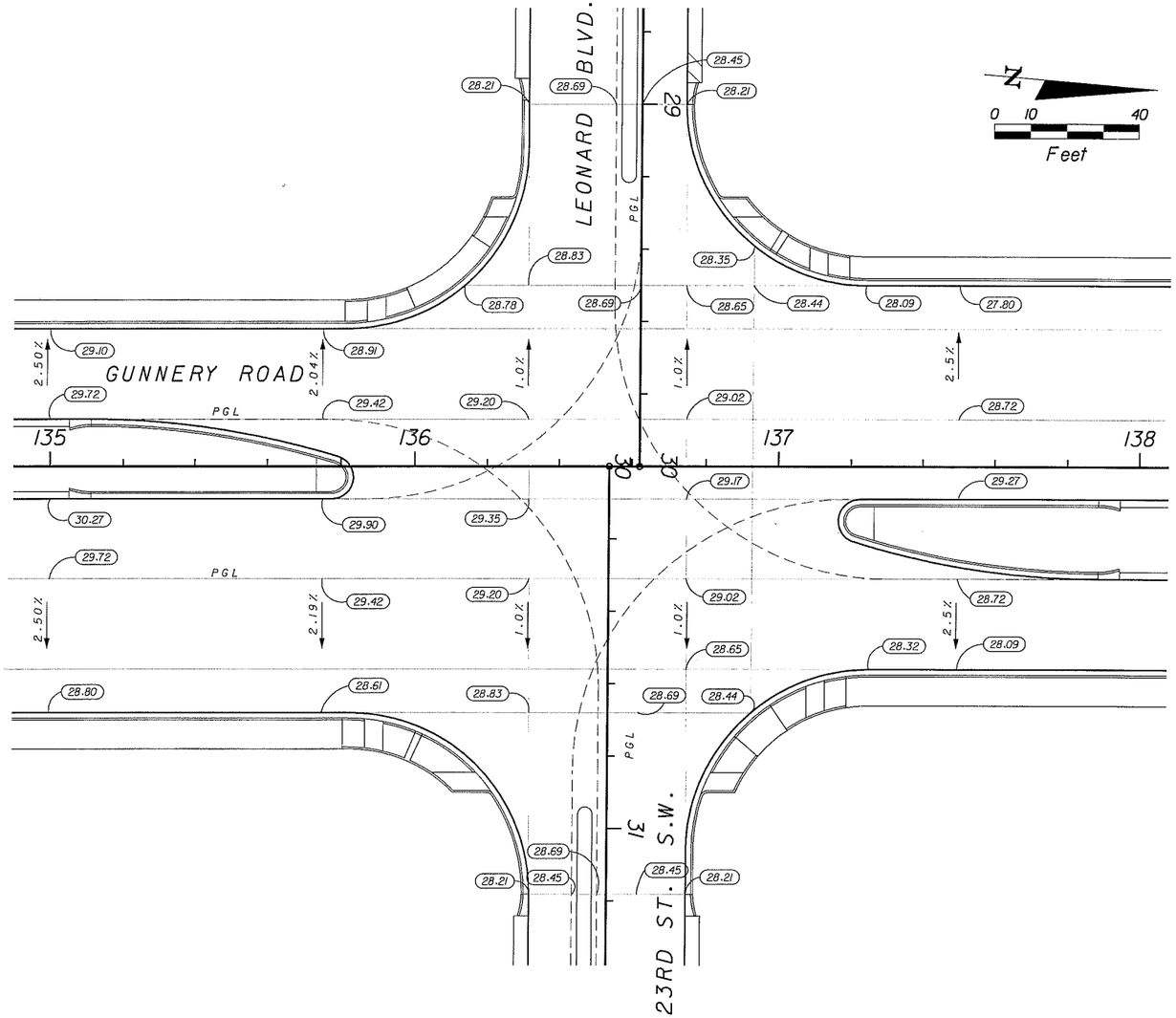
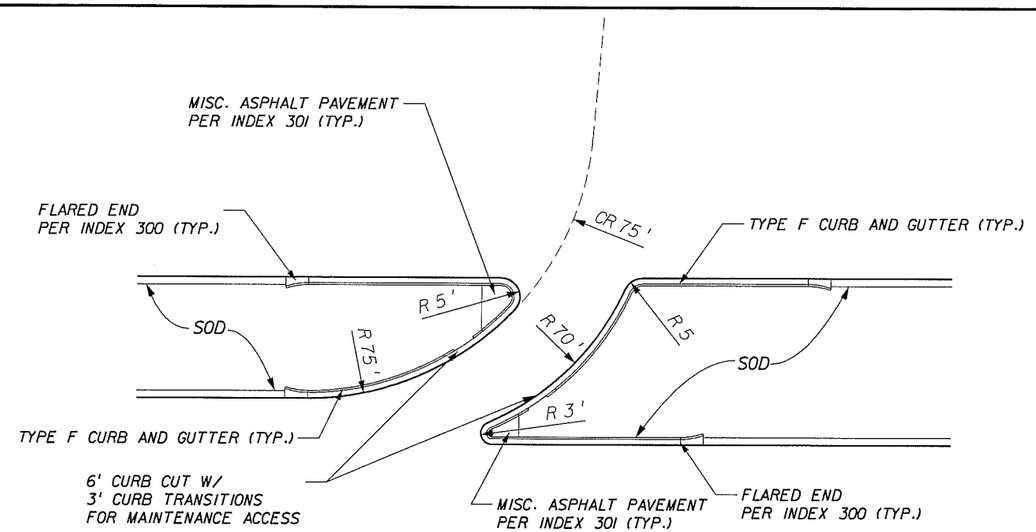
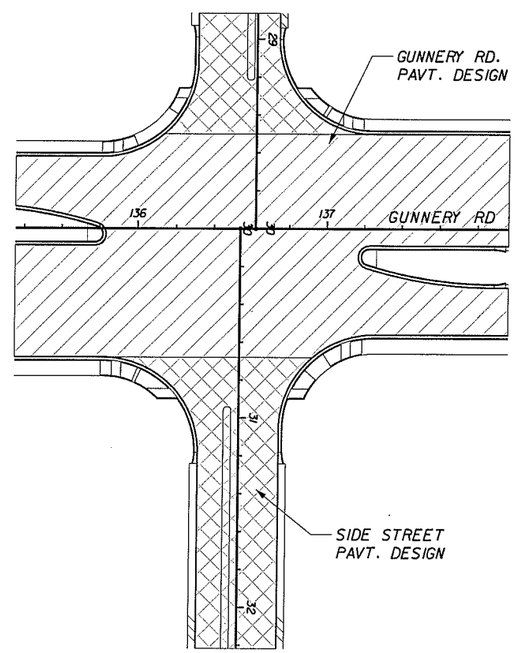


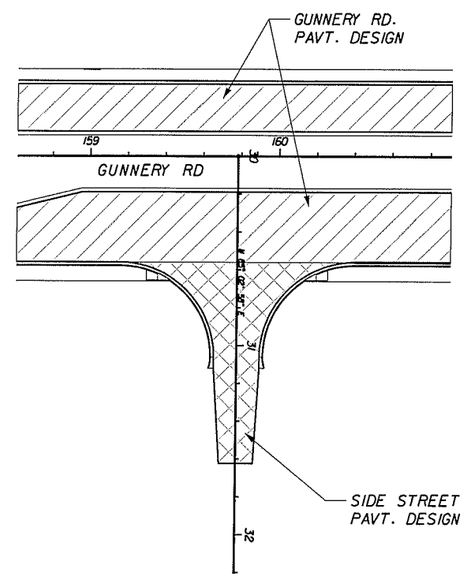
GRADING DETAIL
1"=40'



TYPICAL MEDIAN OPENING DETAIL
N.T.S.



TYPICAL PAVEMENT DESIGN LIMITS
N.T.S.



TYPICAL PAVEMENT DESIGN LIMITS
N.T.S.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/26/06	JW	REVISED INTERSECTION GRADING DETAIL			

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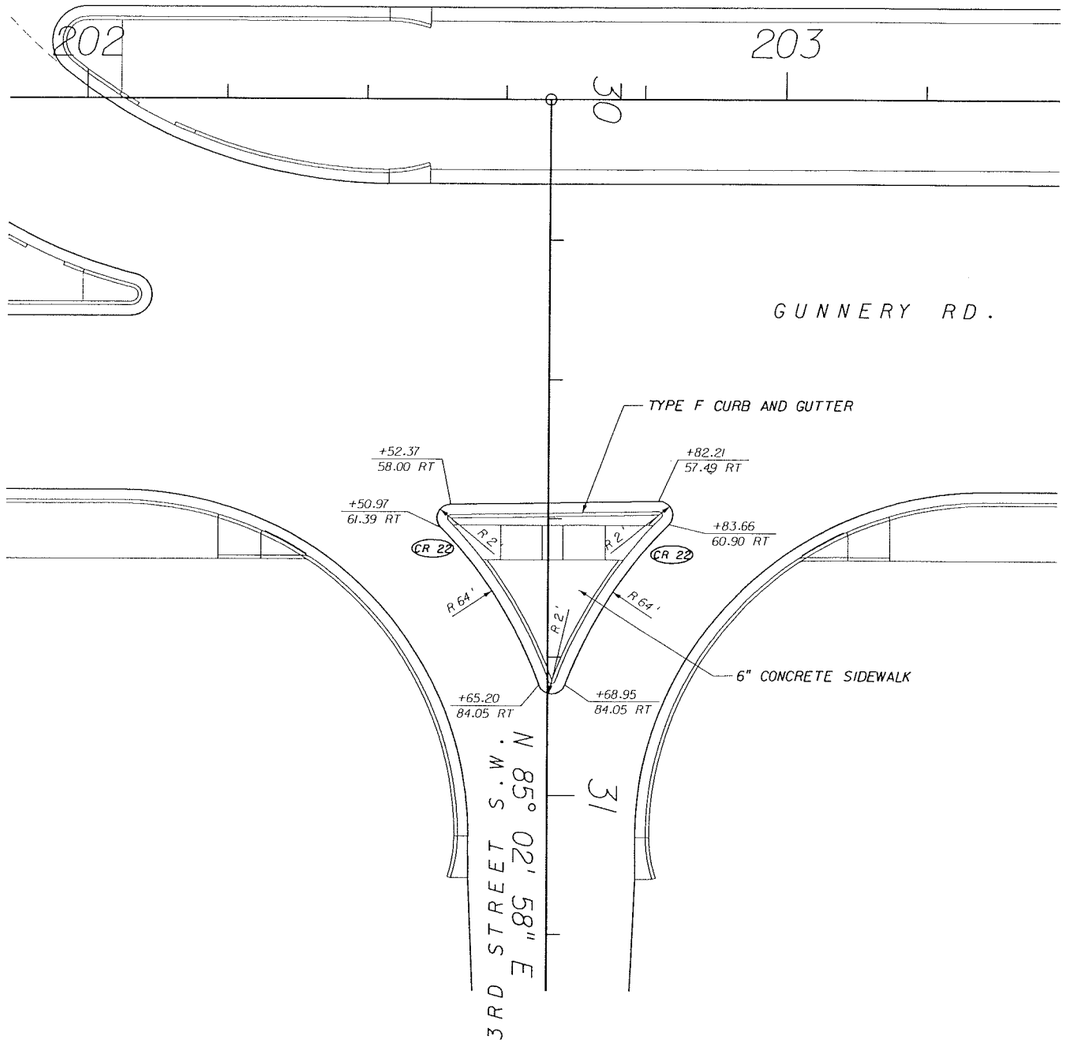
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SPECIAL DETAILS

SHEET NO. 77



ISLAND DETAIL
GUNNERY RD AT 3RD ST. S.W.
1"=20'

REVISIONS					
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12701 World Plaza Lane
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4055	LEE	99012.201

SPECIAL DETAILS

SHEET NO. 78

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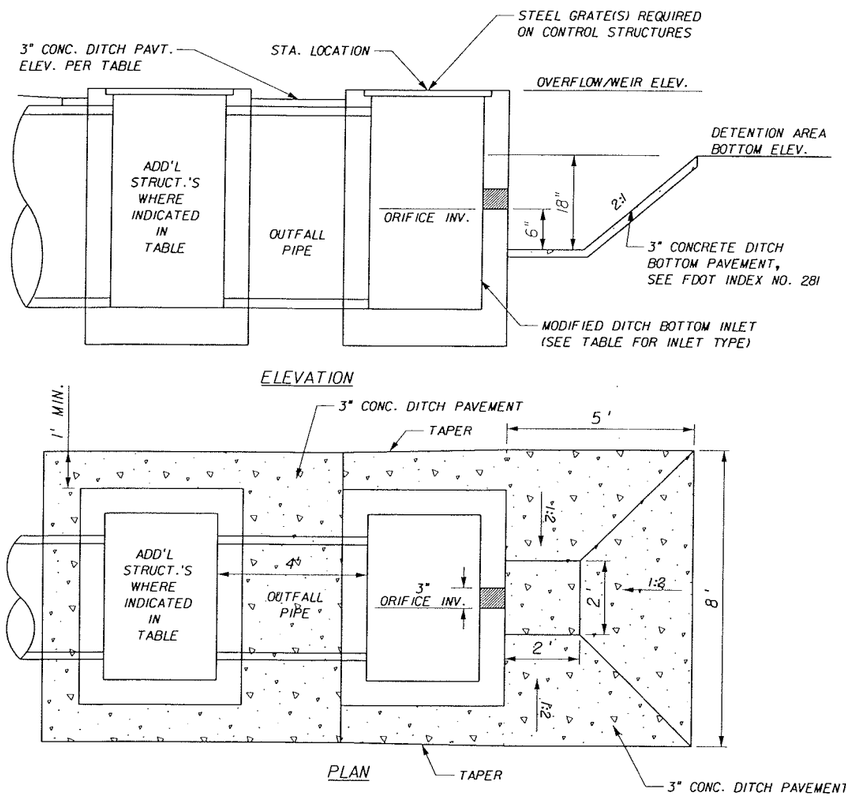
CONTROL STRUCT. NO.	STA.	OFFSET	NUMBER OF STRUC.'S	STRUC. TYPE	OVERFLOW ELEV.	ORIFICE SIZE	ORIFICE INV.	DETENTION BOTTOM ELEV.	OUTFALL PIPE SIZE	OUTFALL PIPE INV.	DITCH PAVT. ELEV.
CS-1	30+96.00	70.84 RT	1	H	26.65	3"	24.50	25.50	30"	22.50	25.60
CS-2	30+95.10	65.16 LT	3	E	26.15	3"	24.00	25.00	36"	22.50	26.10
CS-3	163+68.95	93.11 RT	2	E	25.55	3"	23.50	24.50	30"	22.00	25.10
CS-4	164+97.52	93.05 RT	2	E	25.15	3"	23.00	24.00	30"	22.00	25.10
CS-5	30+92.98	38.00 RT	1	H	24.15	3"	22.00	23.00	36"	20.35	23.95
CS-6	30+92.98	50.00 LT	3	E	24.15	3"	22.00	23.00	36"	20.35	23.95
CS-7	217+24.35	93.50 RT	2	E	24.15	3"	22.00	23.00	30"	20.00	23.10
CS-8	218+73.20	93.50 RT	1	E	24.15	3"	22.00	23.00	30"	20.00	23.10

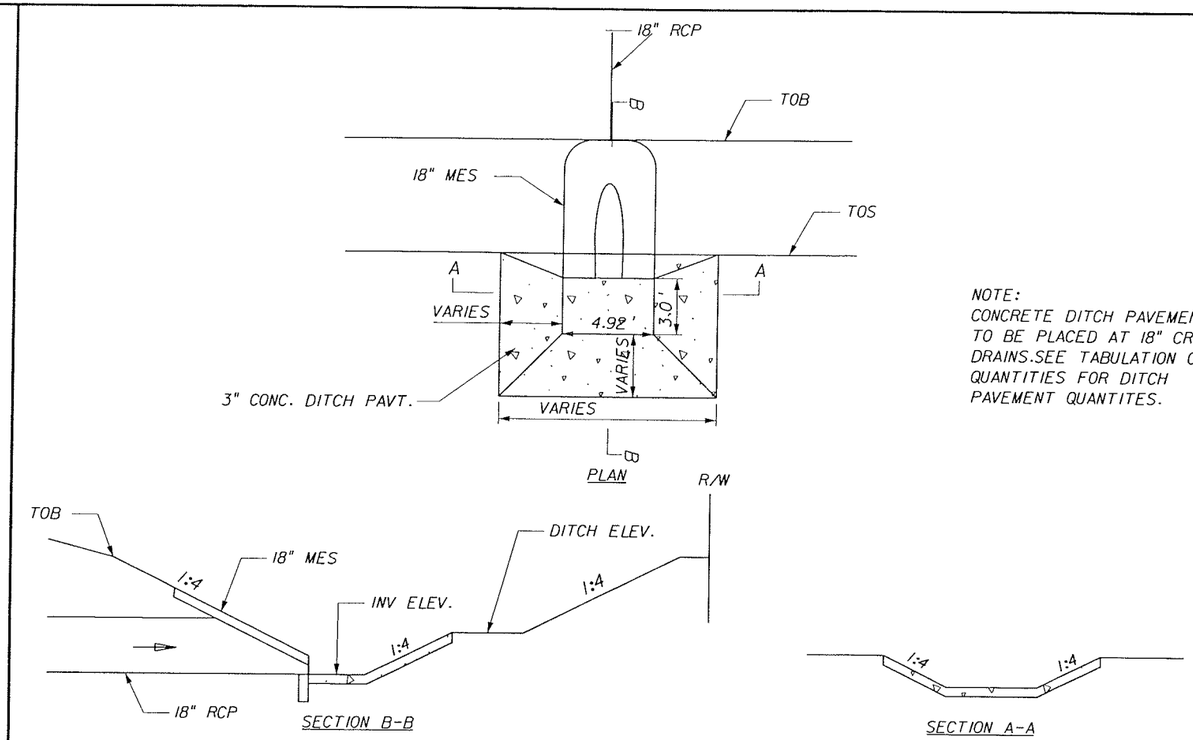


CONTROL STRUCTURE DETAIL

N.T.S.

NOTES:

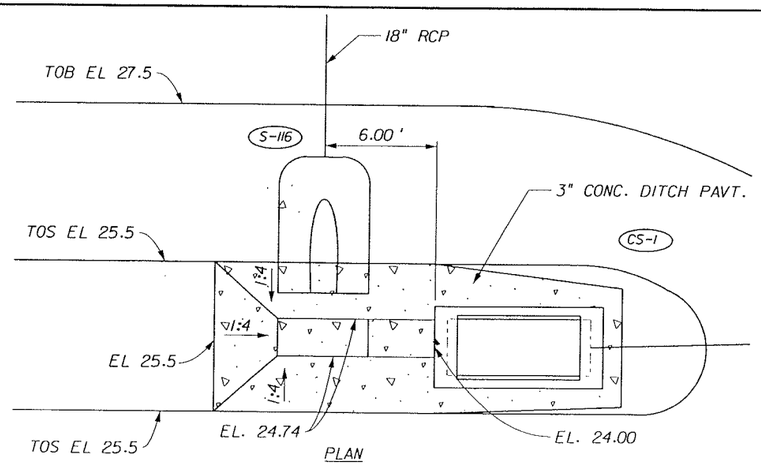
1. THE OPEN AREA FOR THE TYPE E STEEL GRATE IS 1695 SQ. IN. (41 IN. x 41 IN.)
2. THE OPEN AREA FOR THE TYPE H STEEL GRATE IS 2500 SQ. IN. (50 IN. x 50 IN.)
3. REFER TO INDEX NO. 232



NOTE:
CONCRETE DITCH PAVEMENT TO BE PLACED AT 18" CROSS DRAINS.SEE TABULATION OF QUANTITIES FOR DITCH PAVEMENT QUANTITES.

DITCH PAVEMENT DETAIL

N.T.S.



DITCH PAVEMENT DETAIL S-116 & CS-1

N.T.S.

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CONTROL STRUCTURE DETAIL
DITCH PAVEMENT DETAIL

SHEET NO. 79

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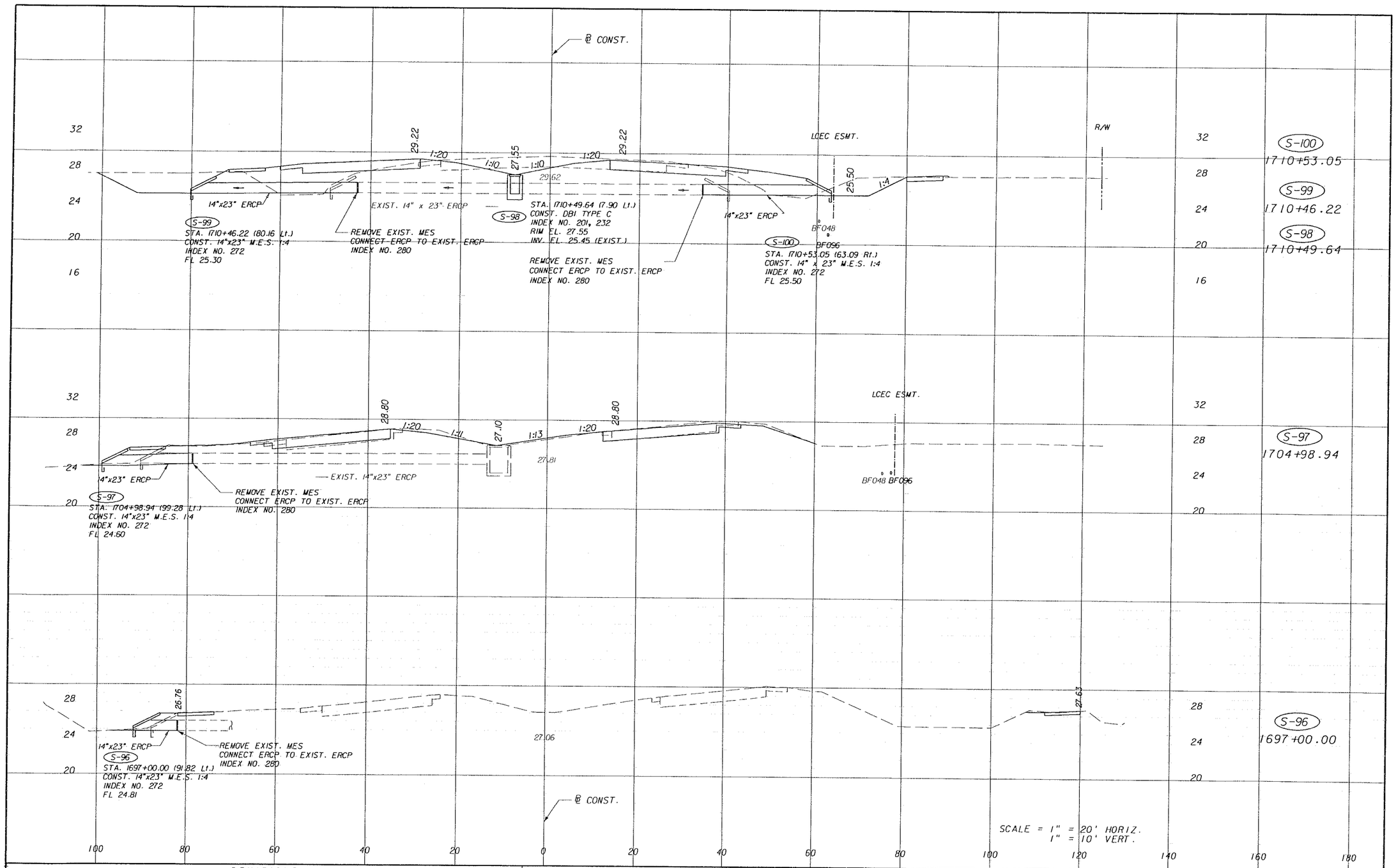

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4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
80

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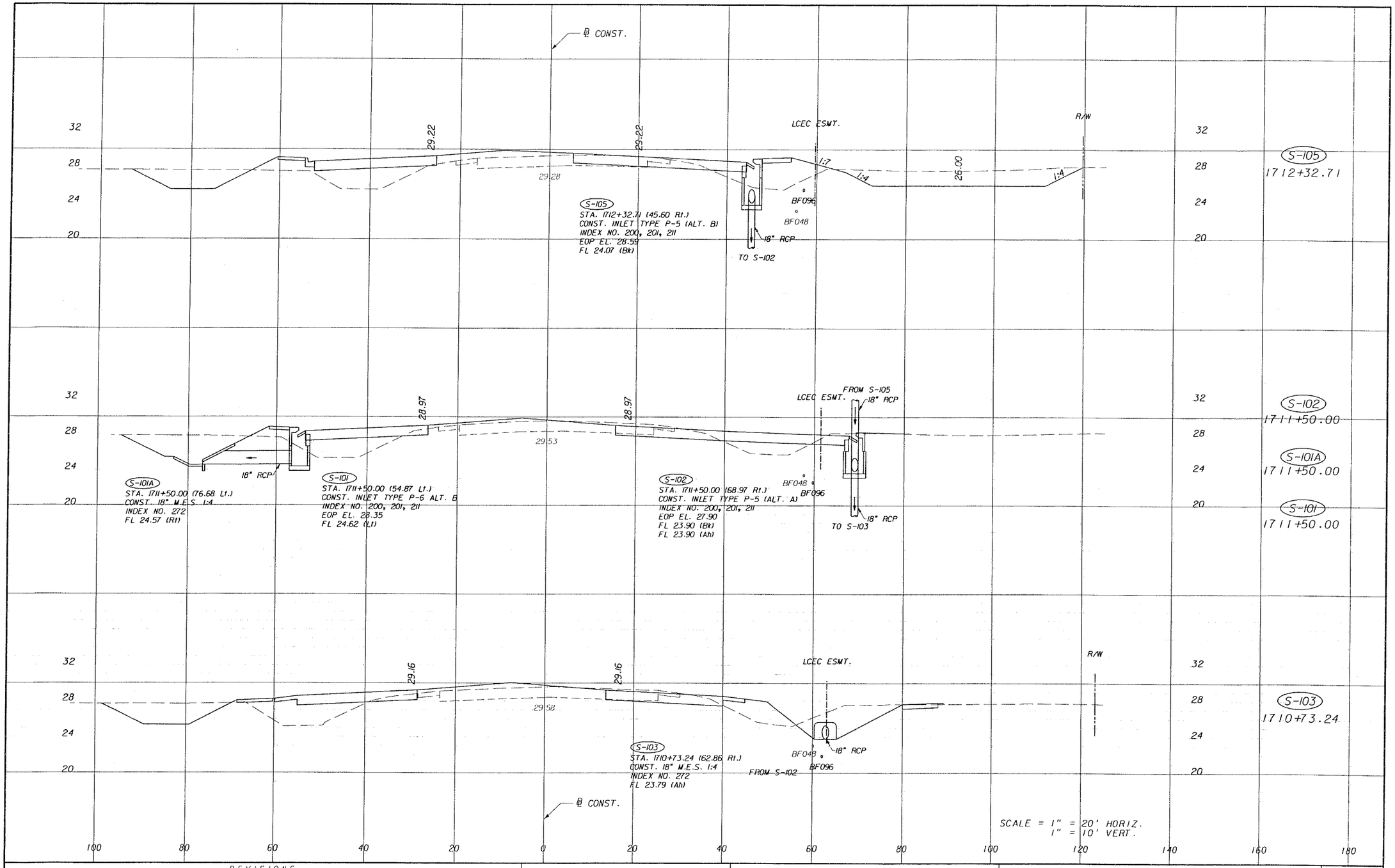

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4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 81

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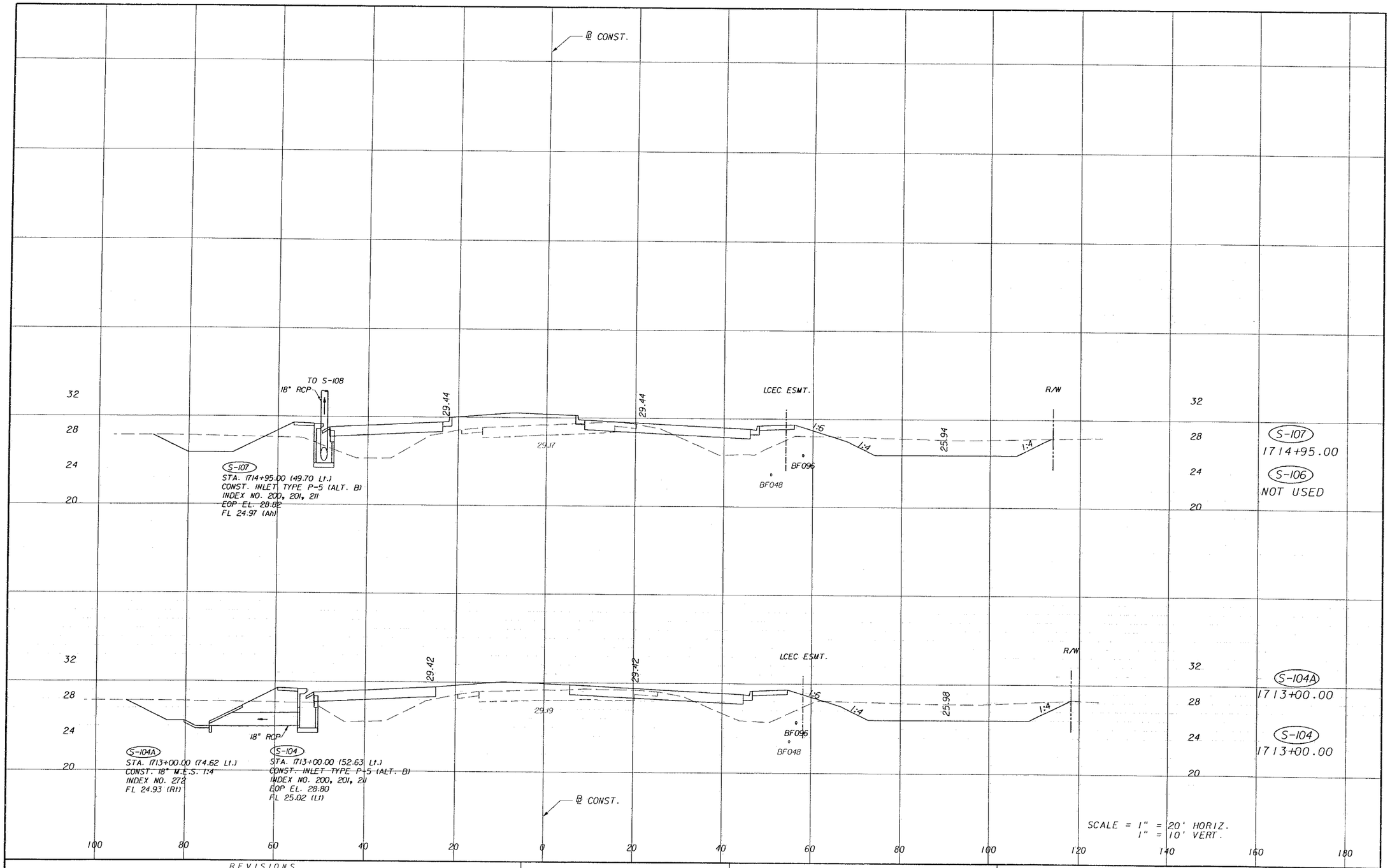

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DRAINAGE STRUCTURES

SHEET NO. 82

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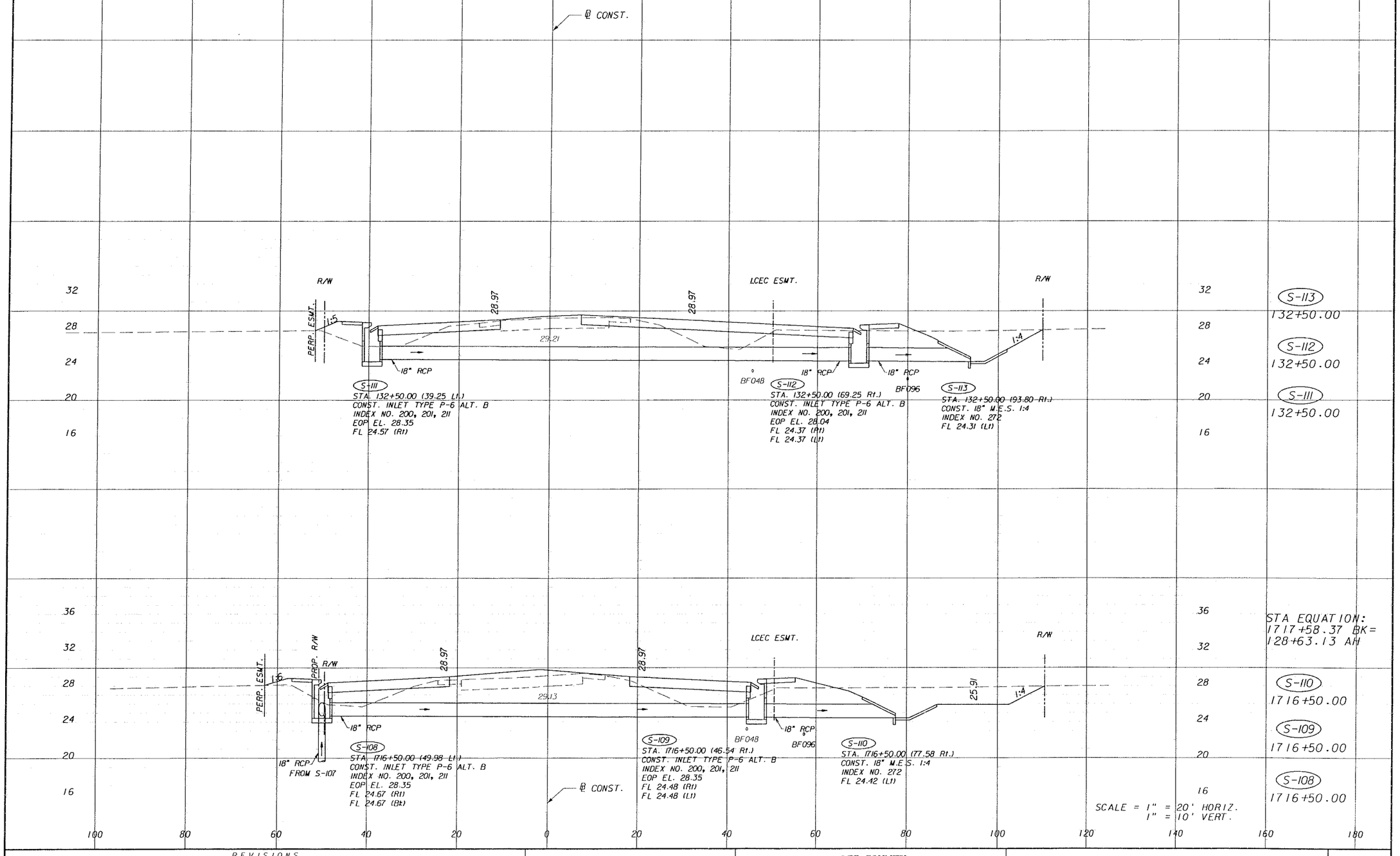

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4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 83

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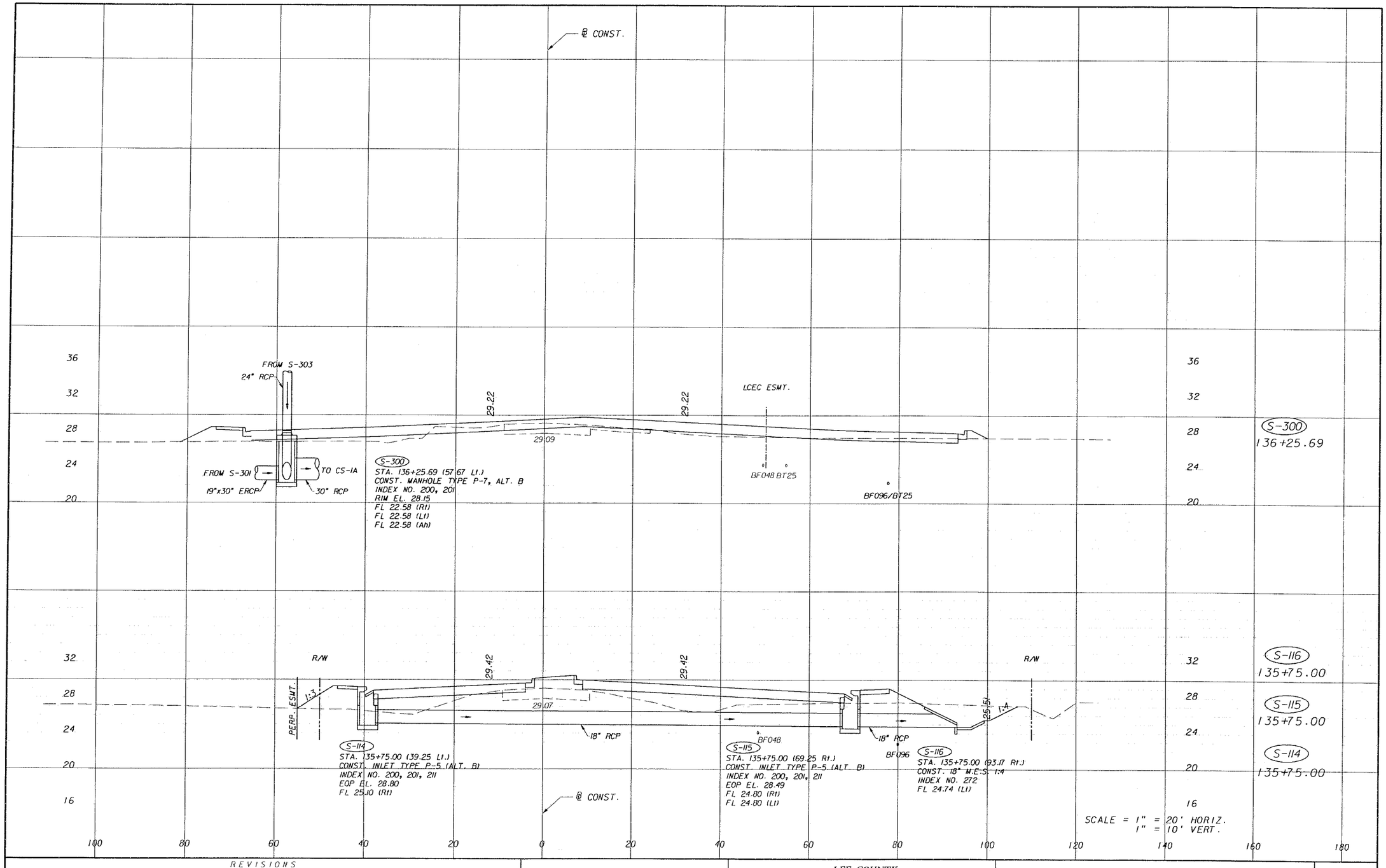

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PINDER TROPMAN & ASSOC., INC.
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4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 84

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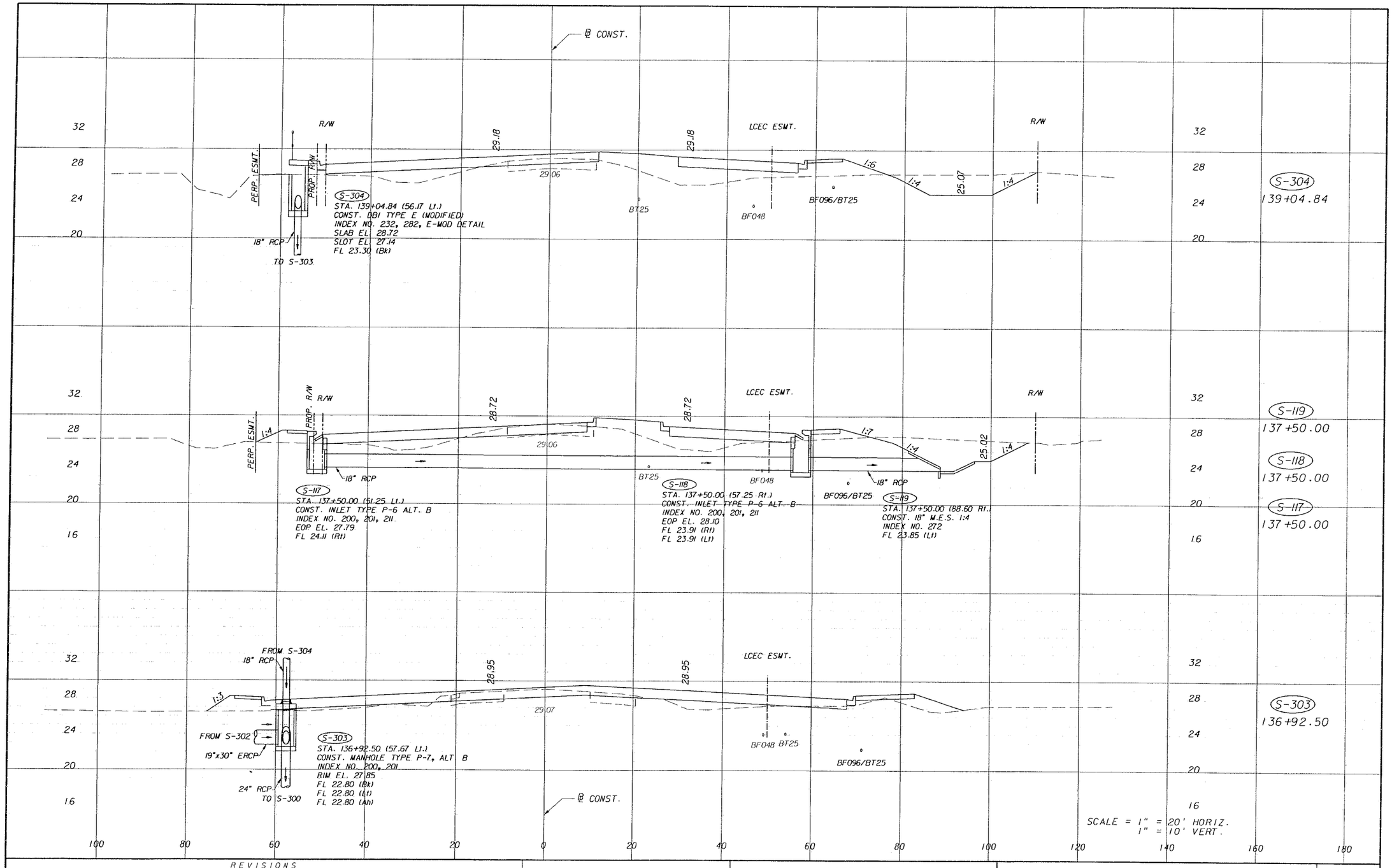

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DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 85

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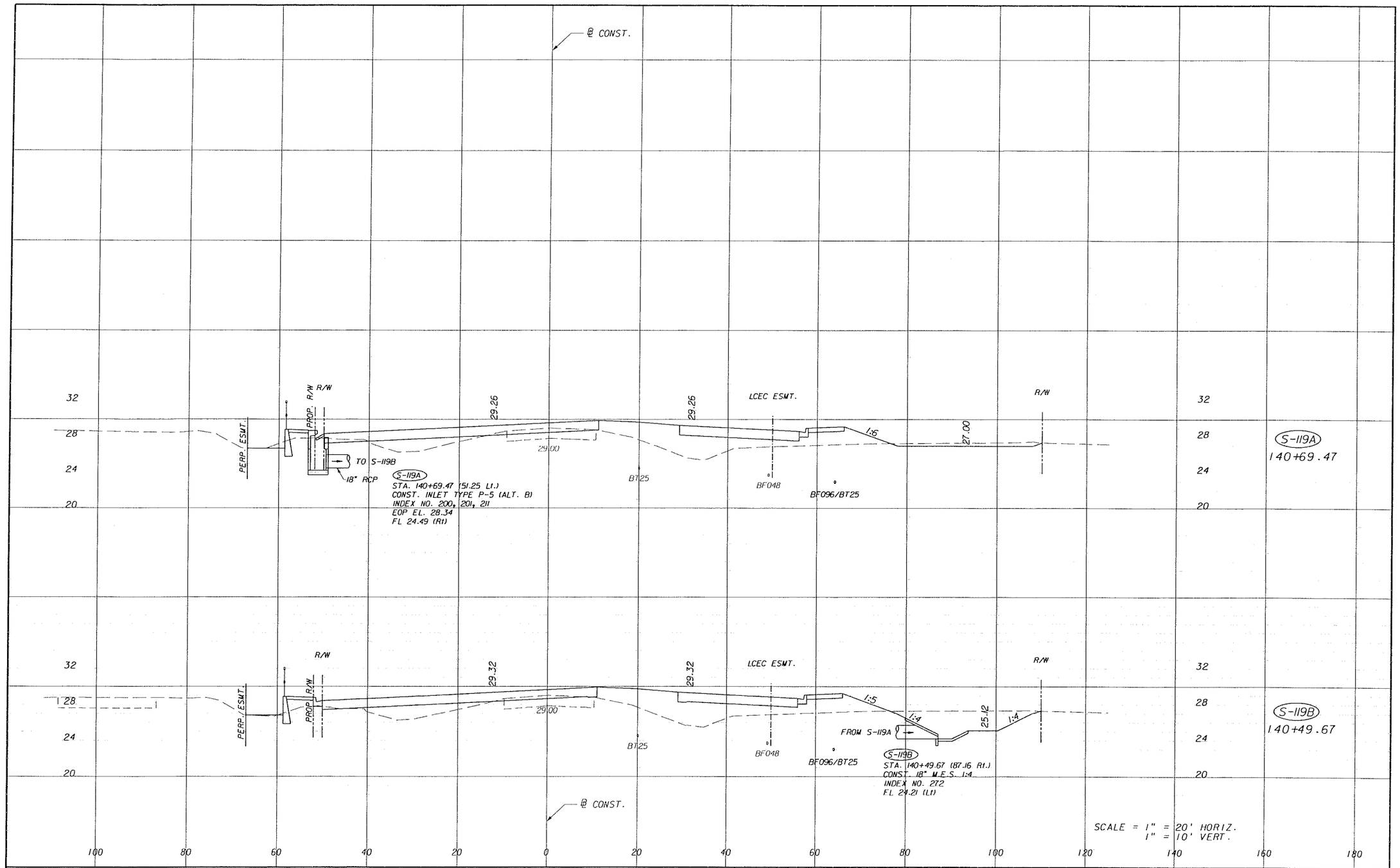

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 86

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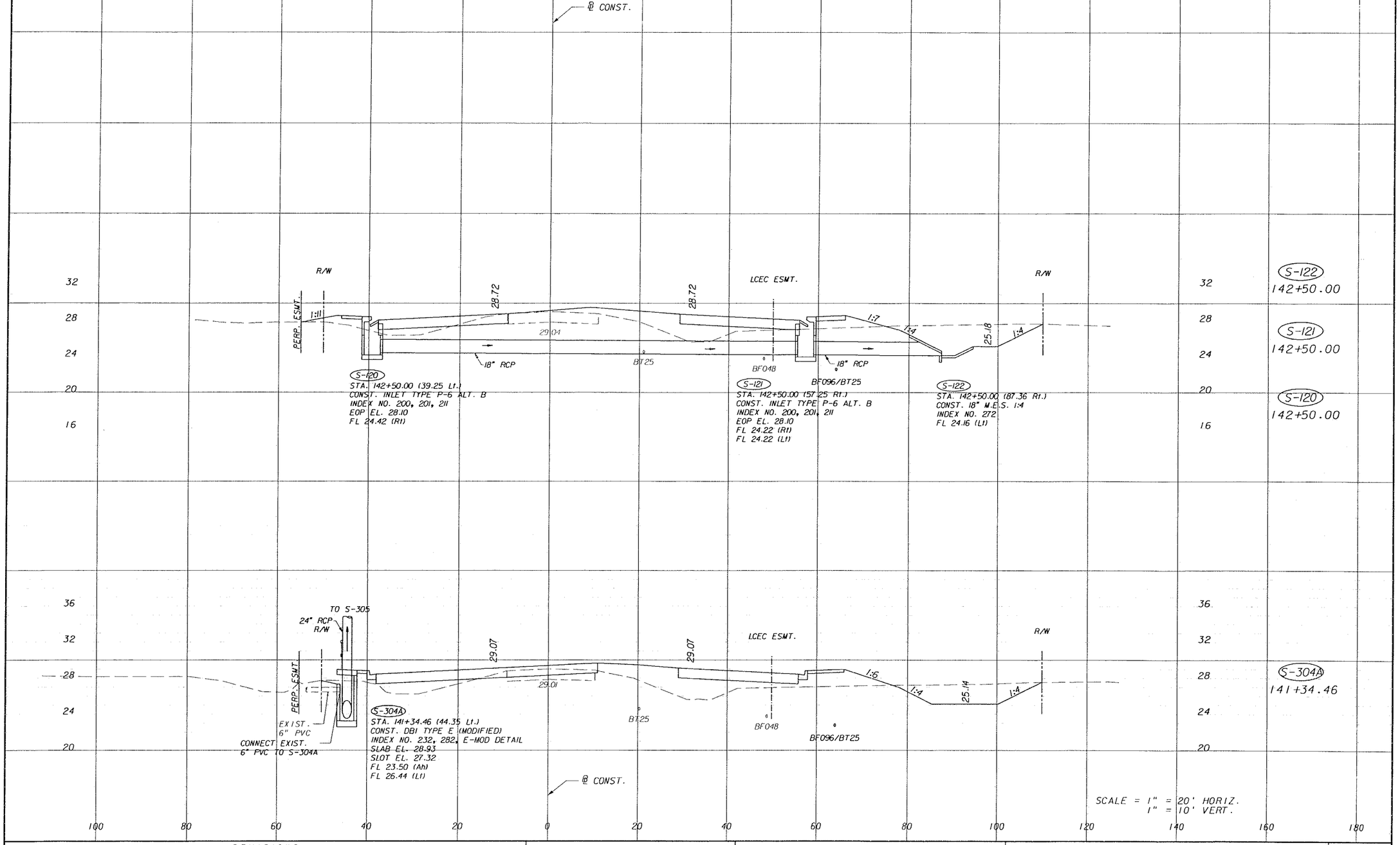

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMONT-BARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
87

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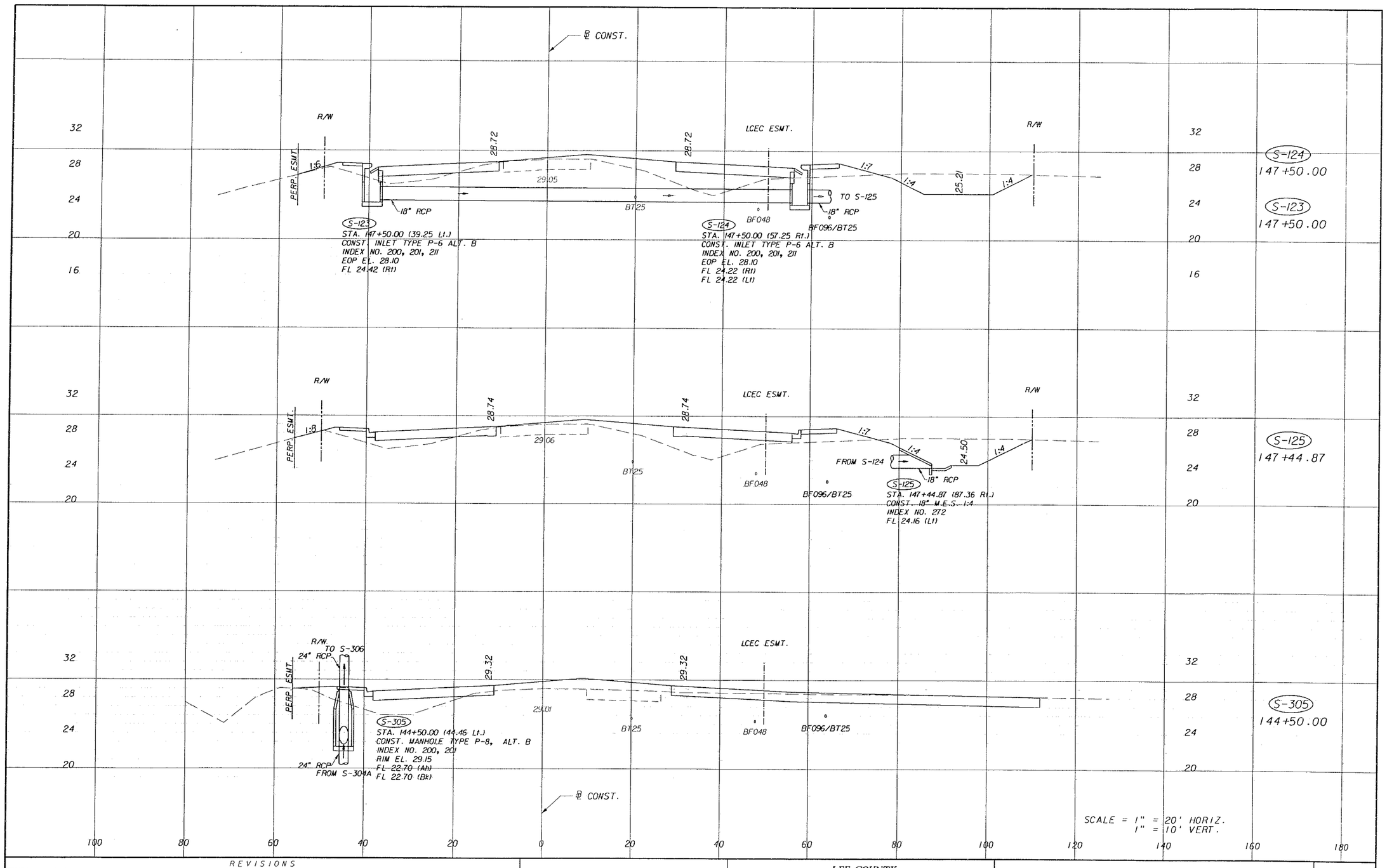

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIRNAT, HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 88

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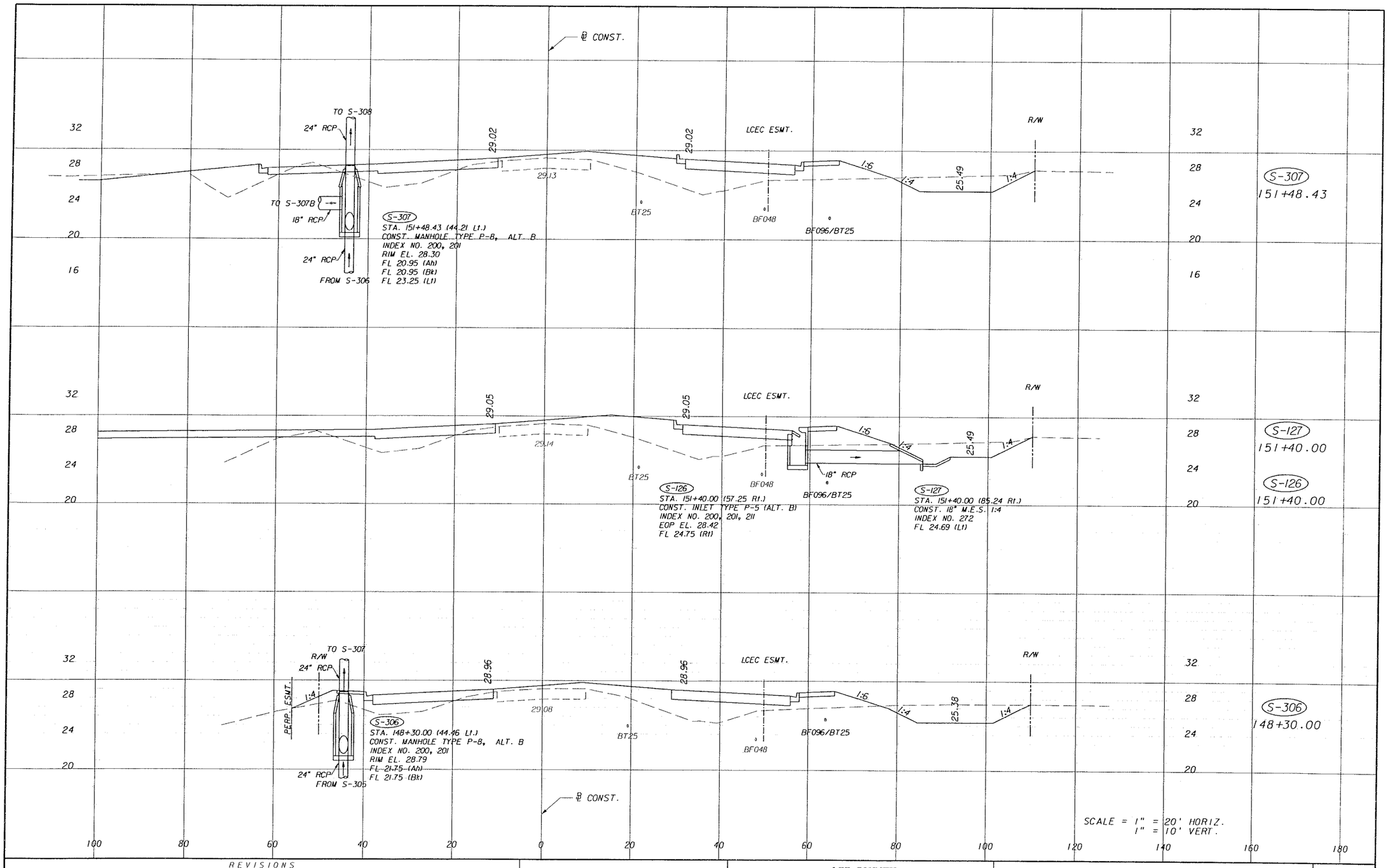

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROUTMAN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 89

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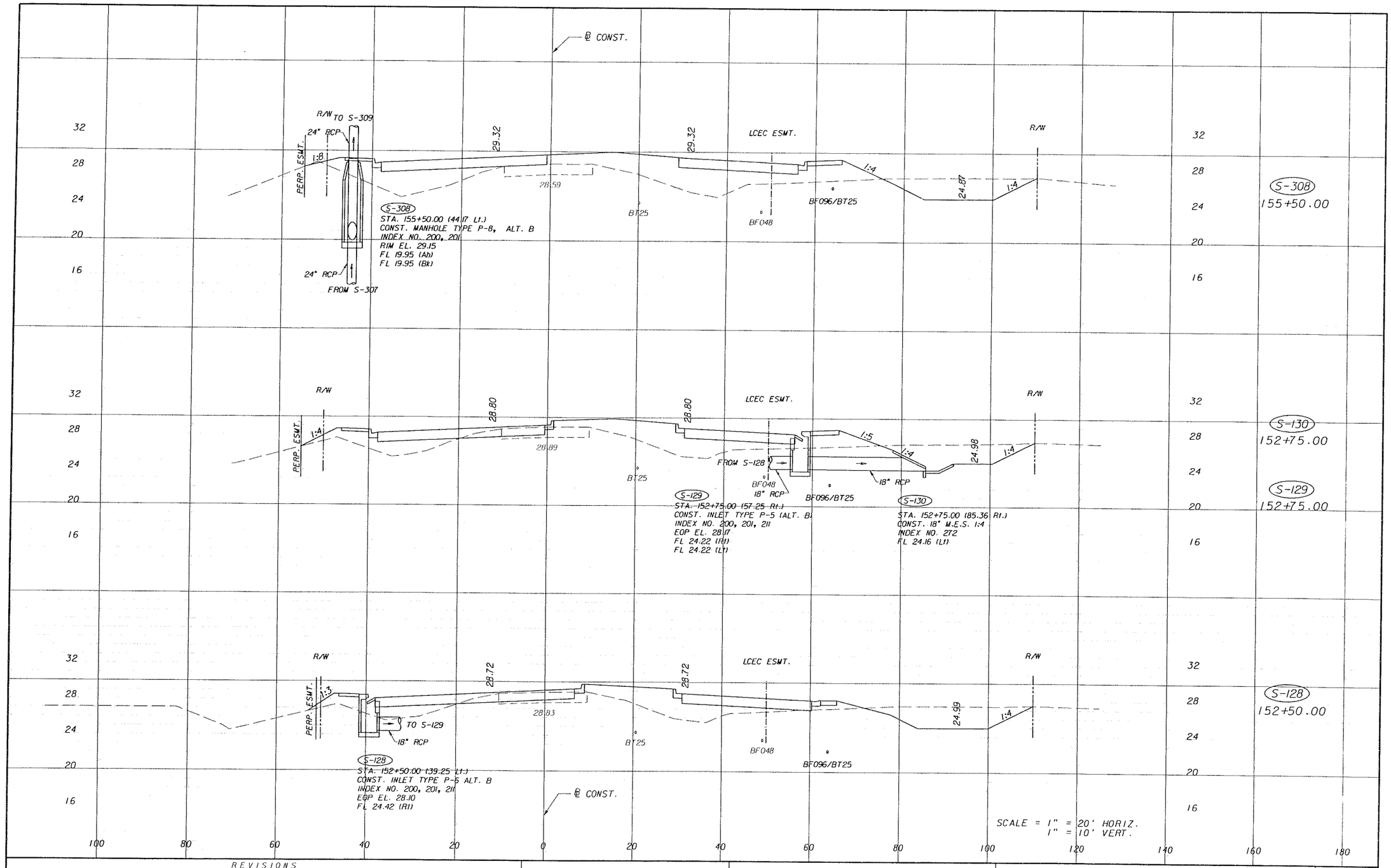

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 90

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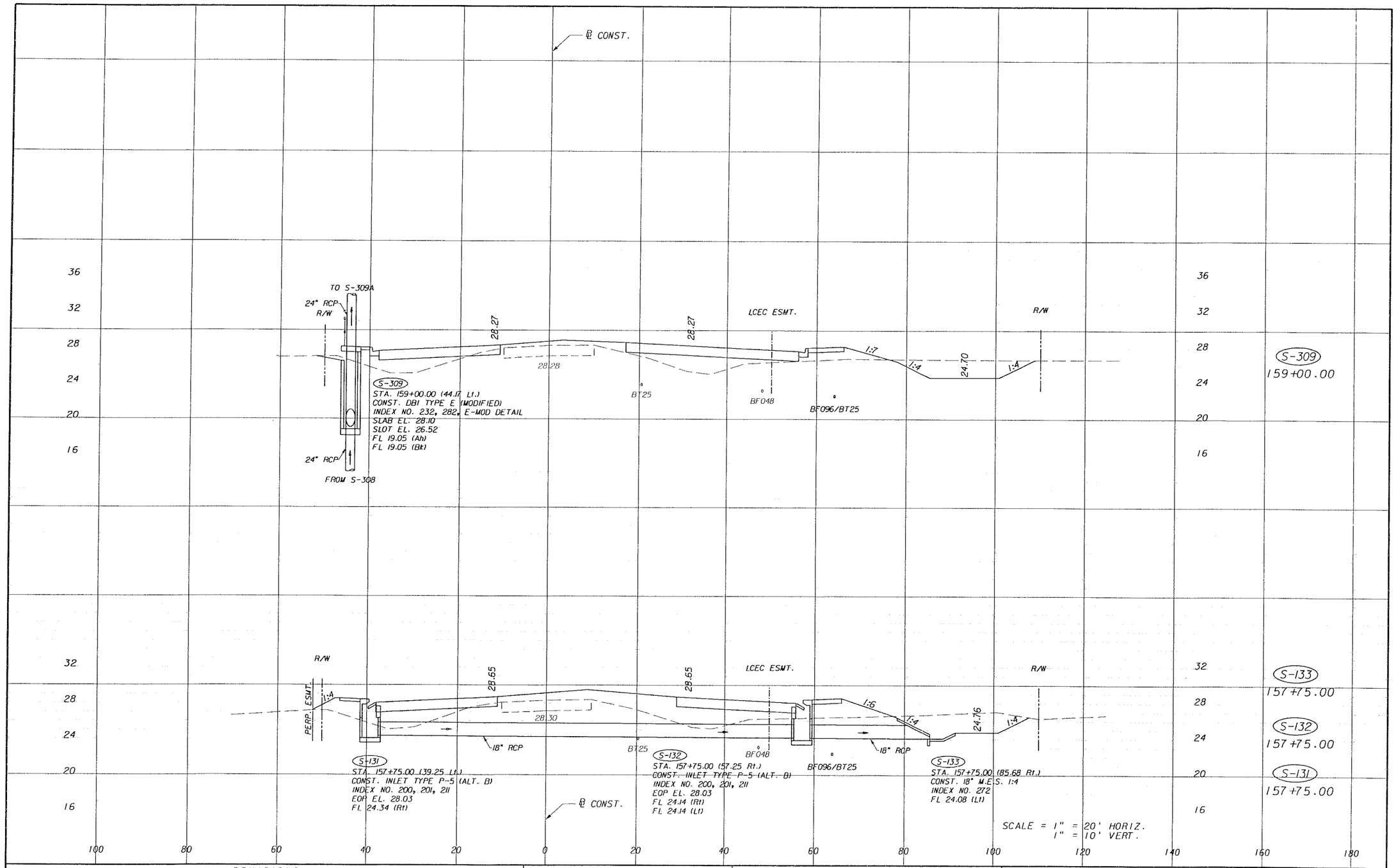

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEDERSEN HARRY SATTER & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 91

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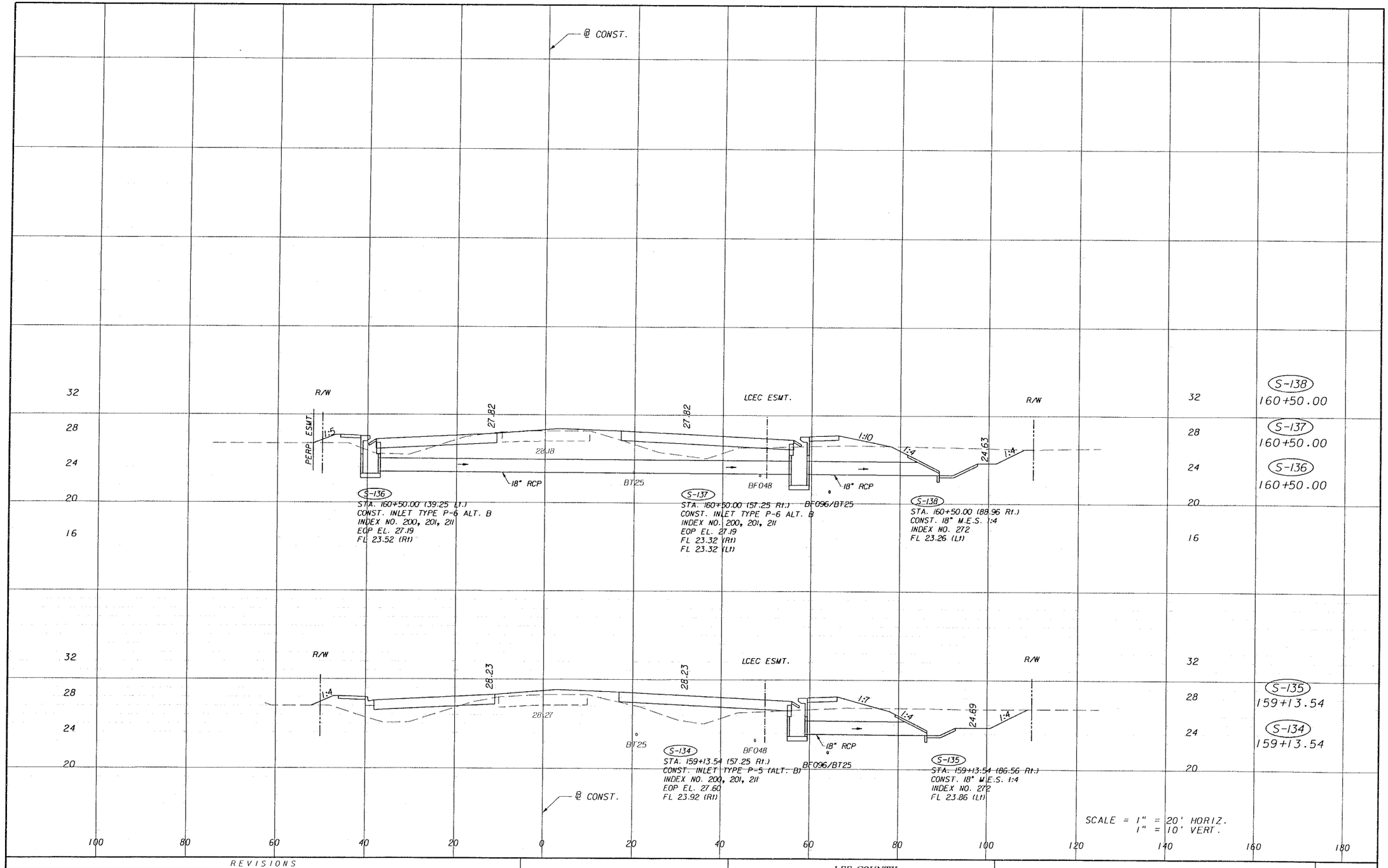

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
92

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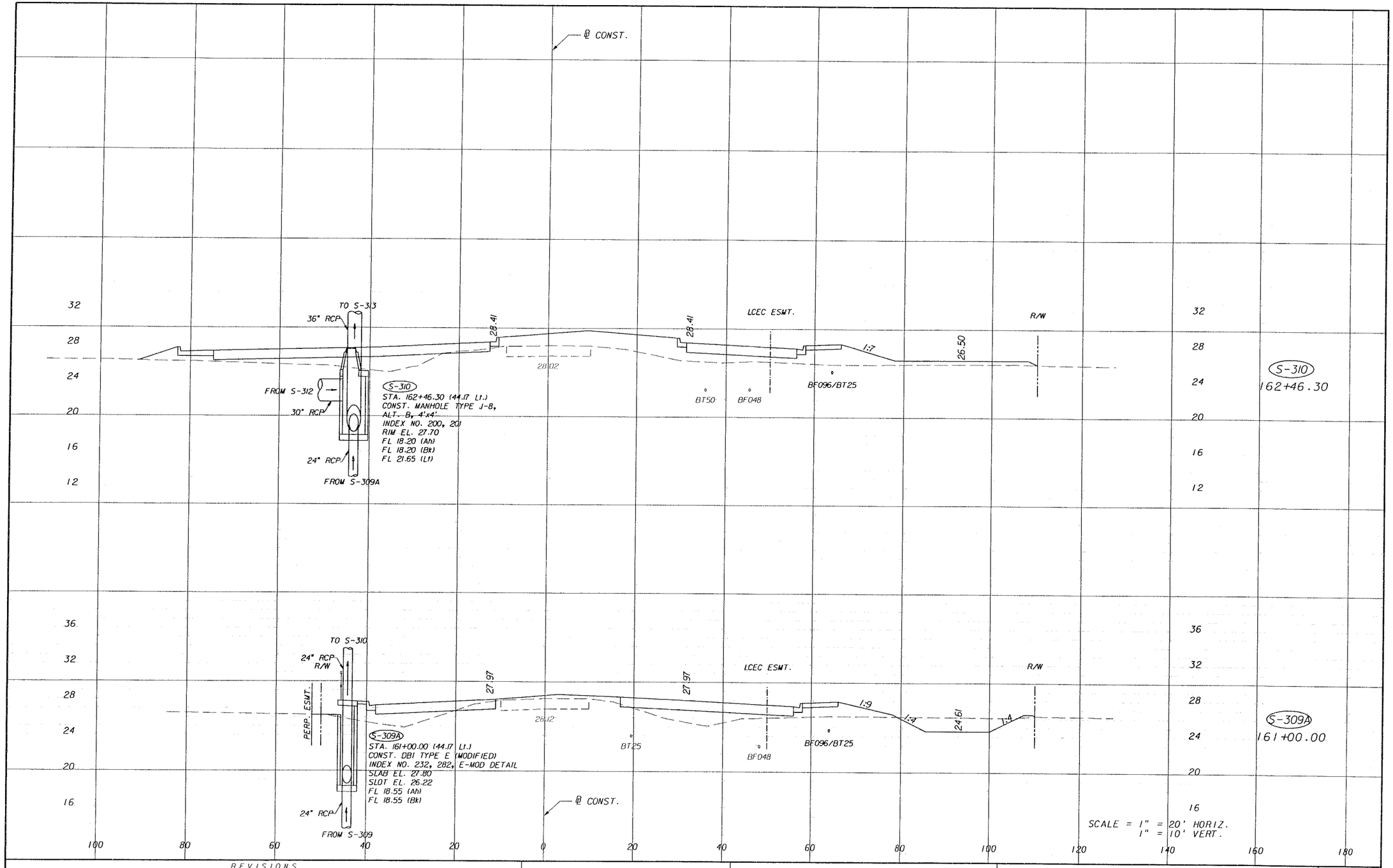

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN-HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
93

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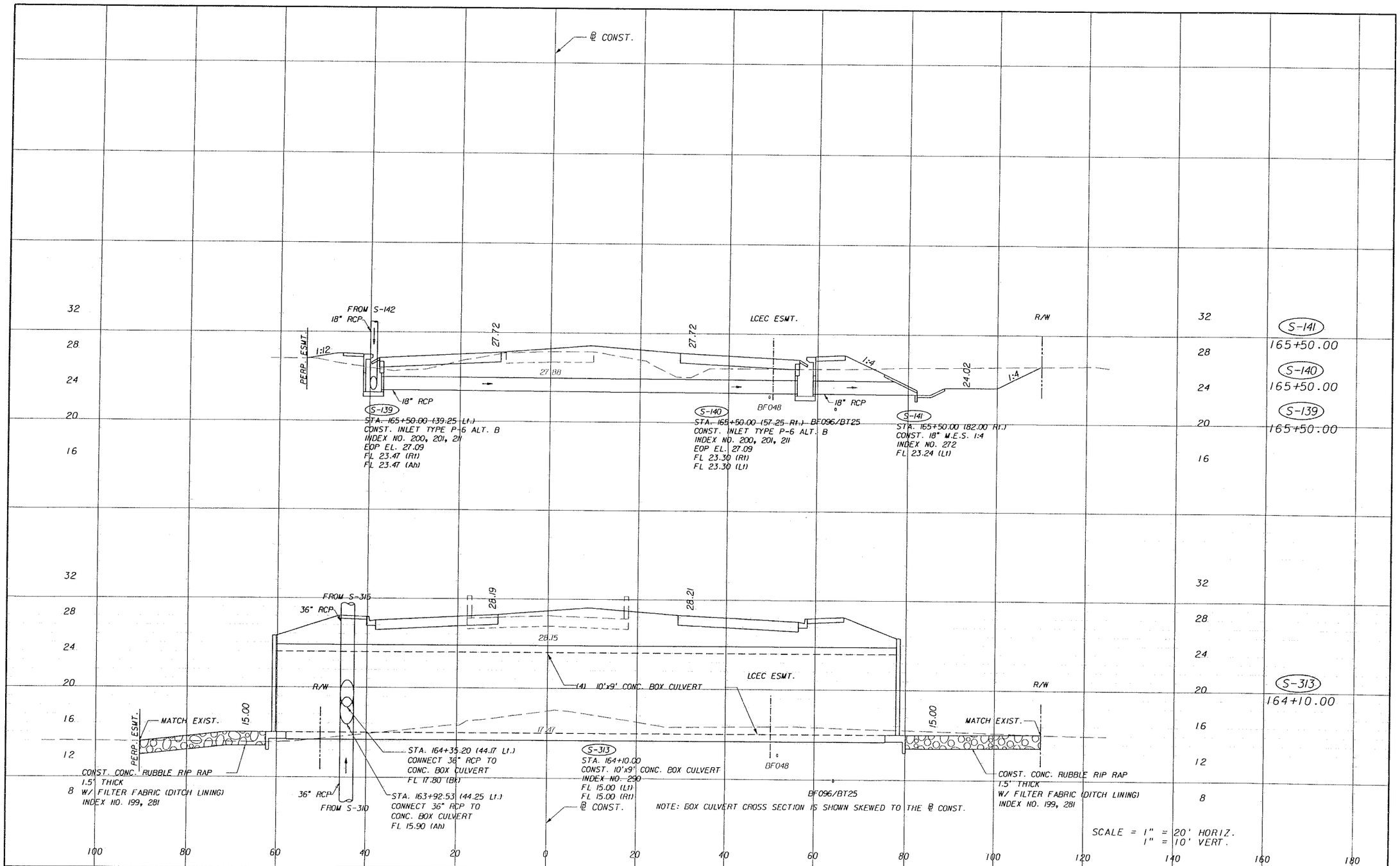

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMANS HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
94

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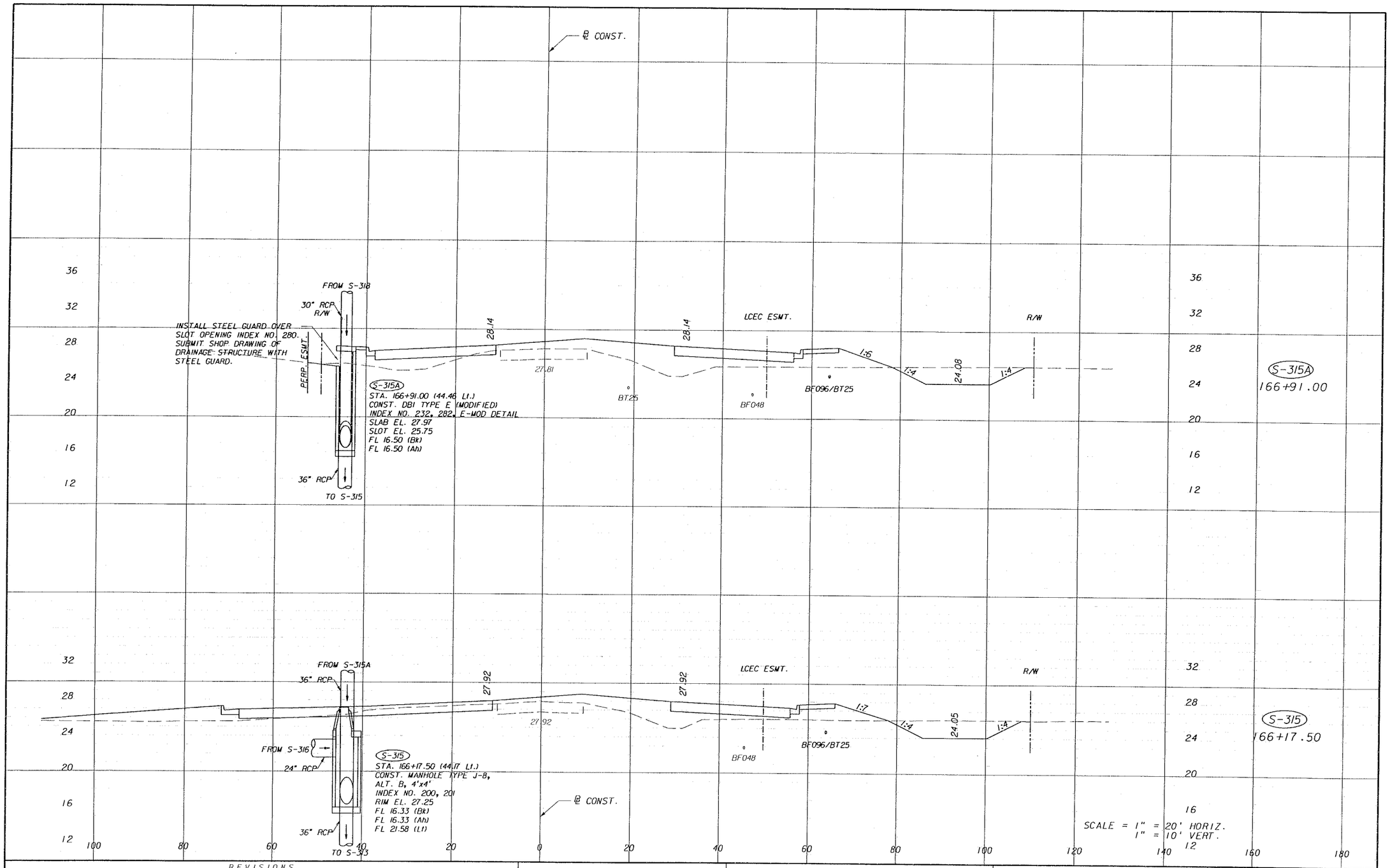

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 95

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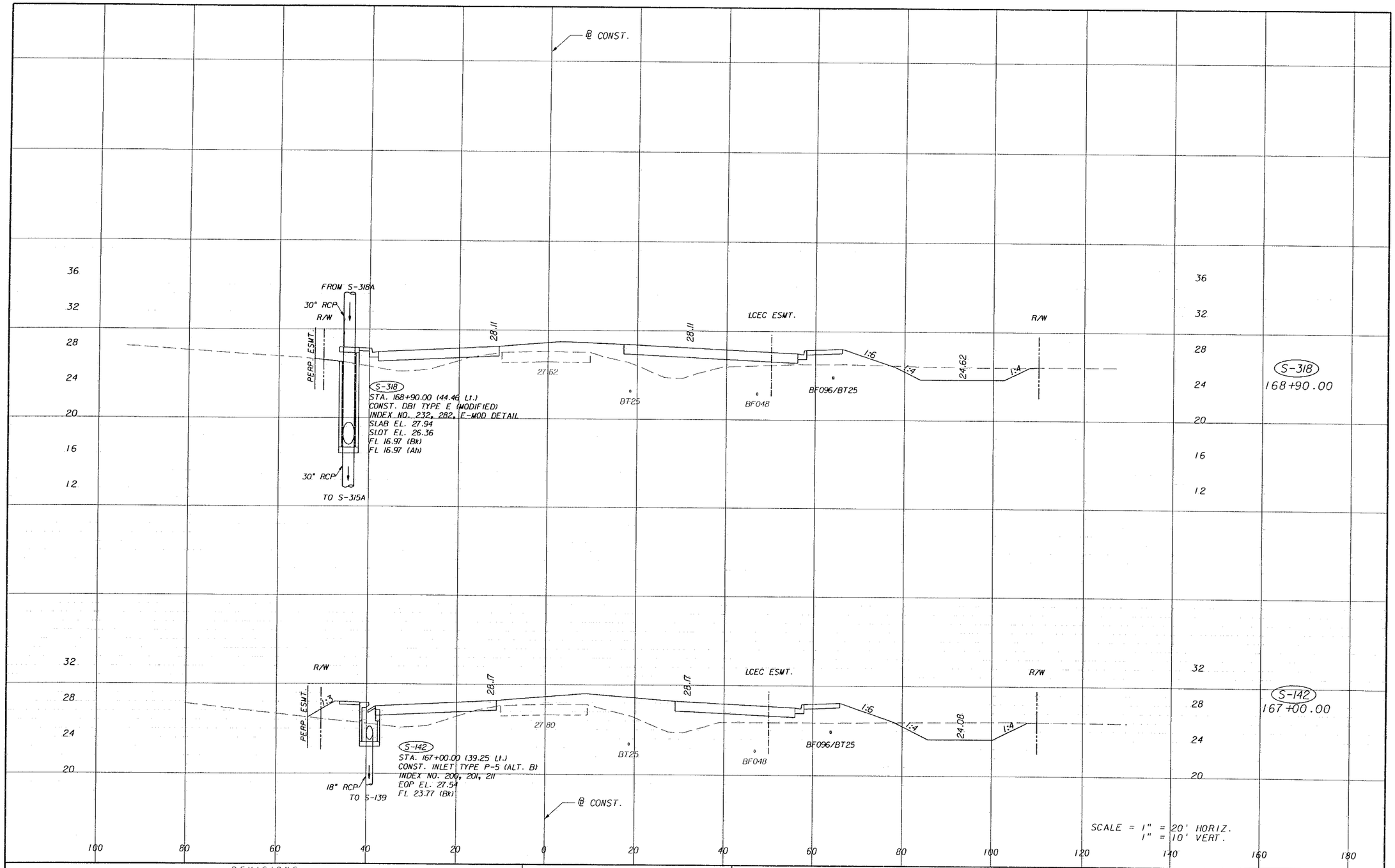

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN DARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 96

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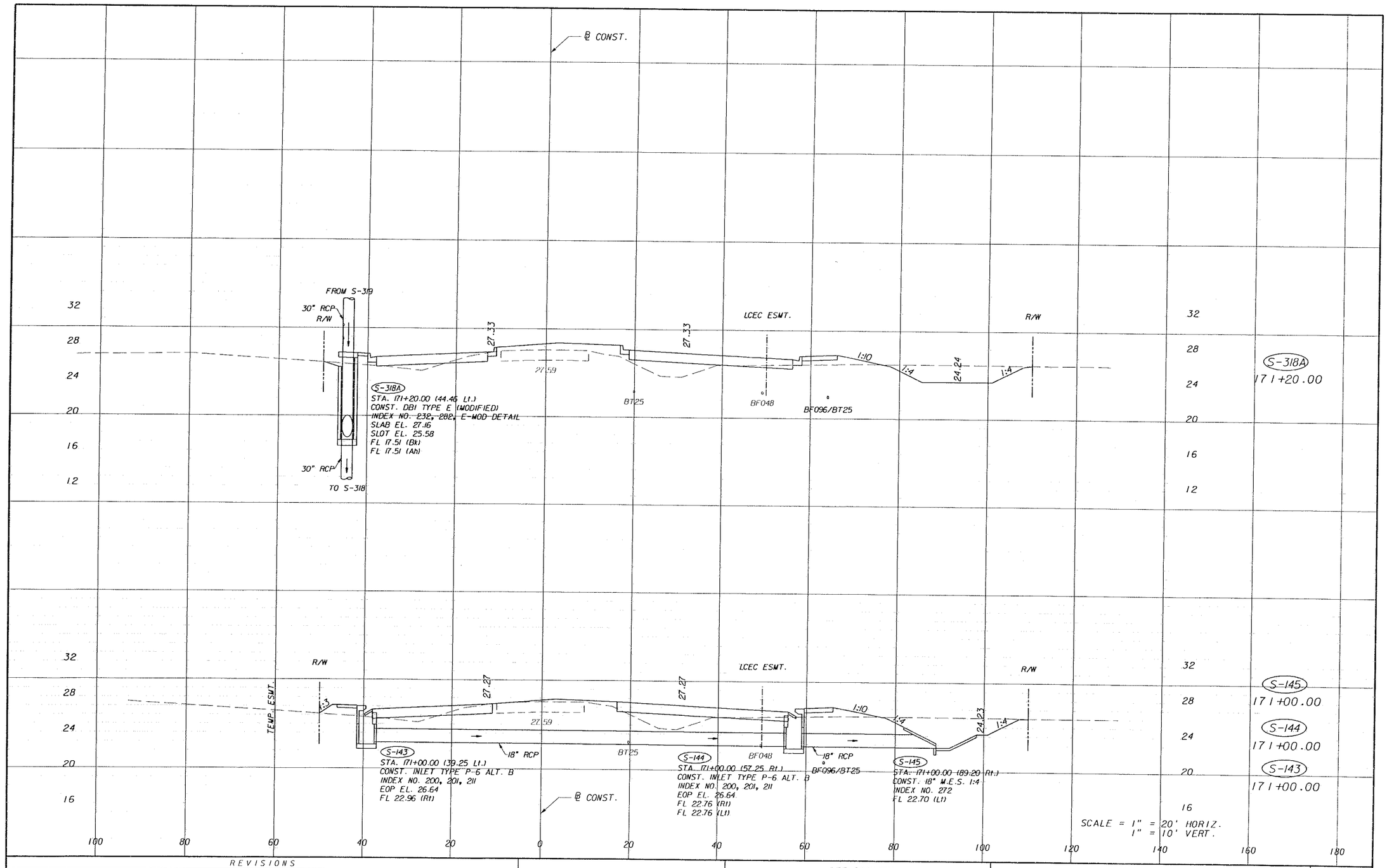

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
97

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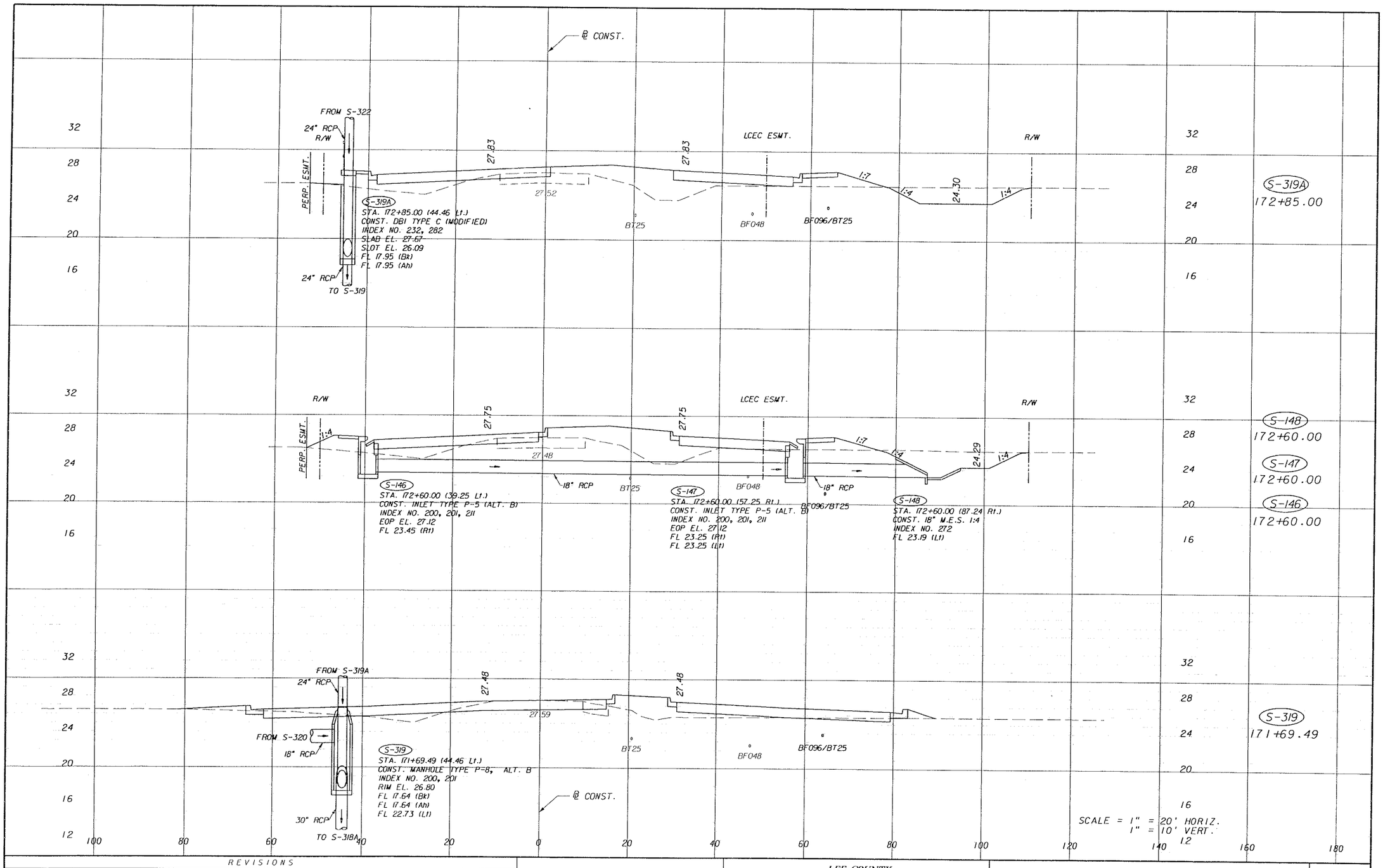

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 98

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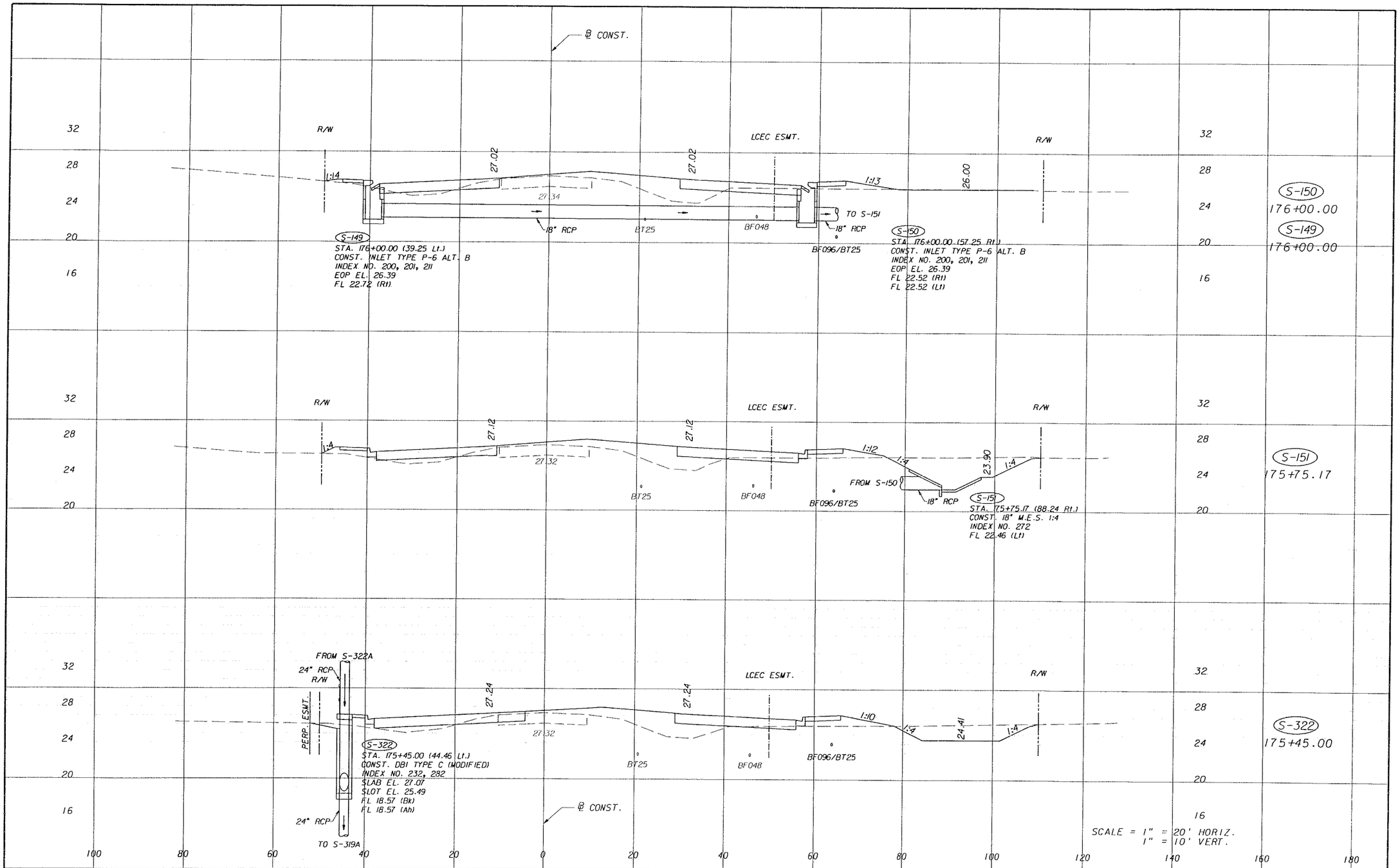

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 99

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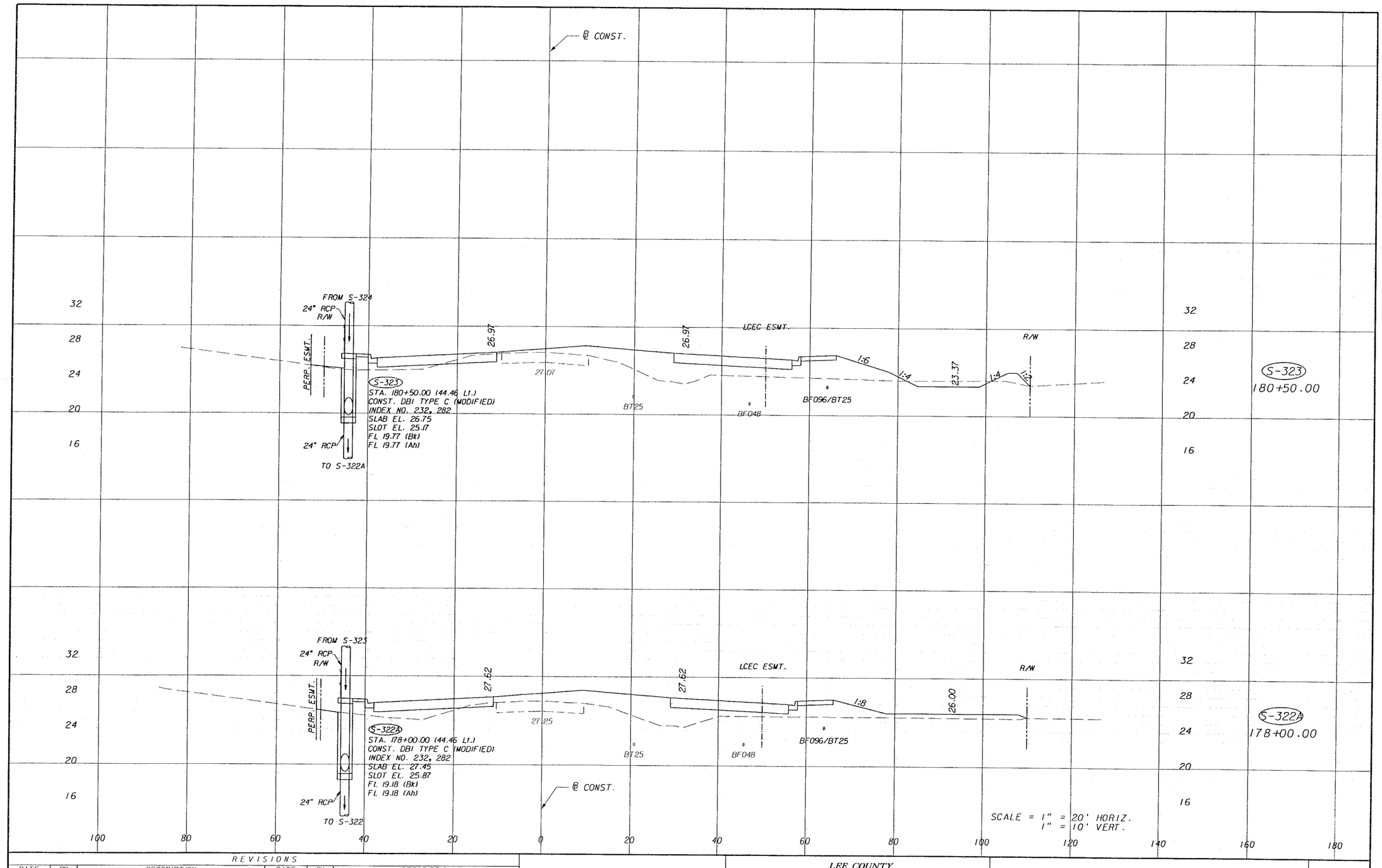

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMONT GARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
100

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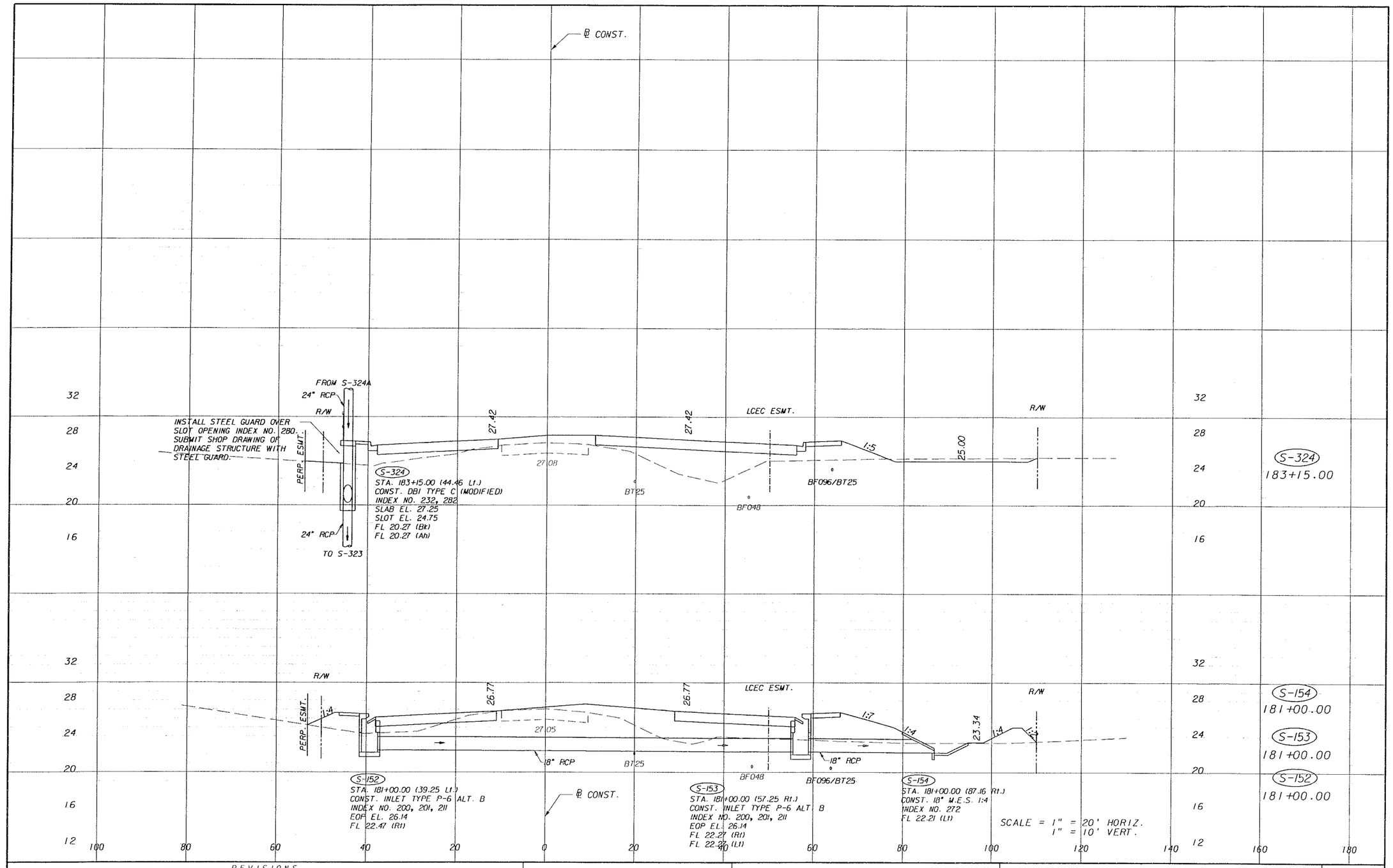

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROXLER & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 101

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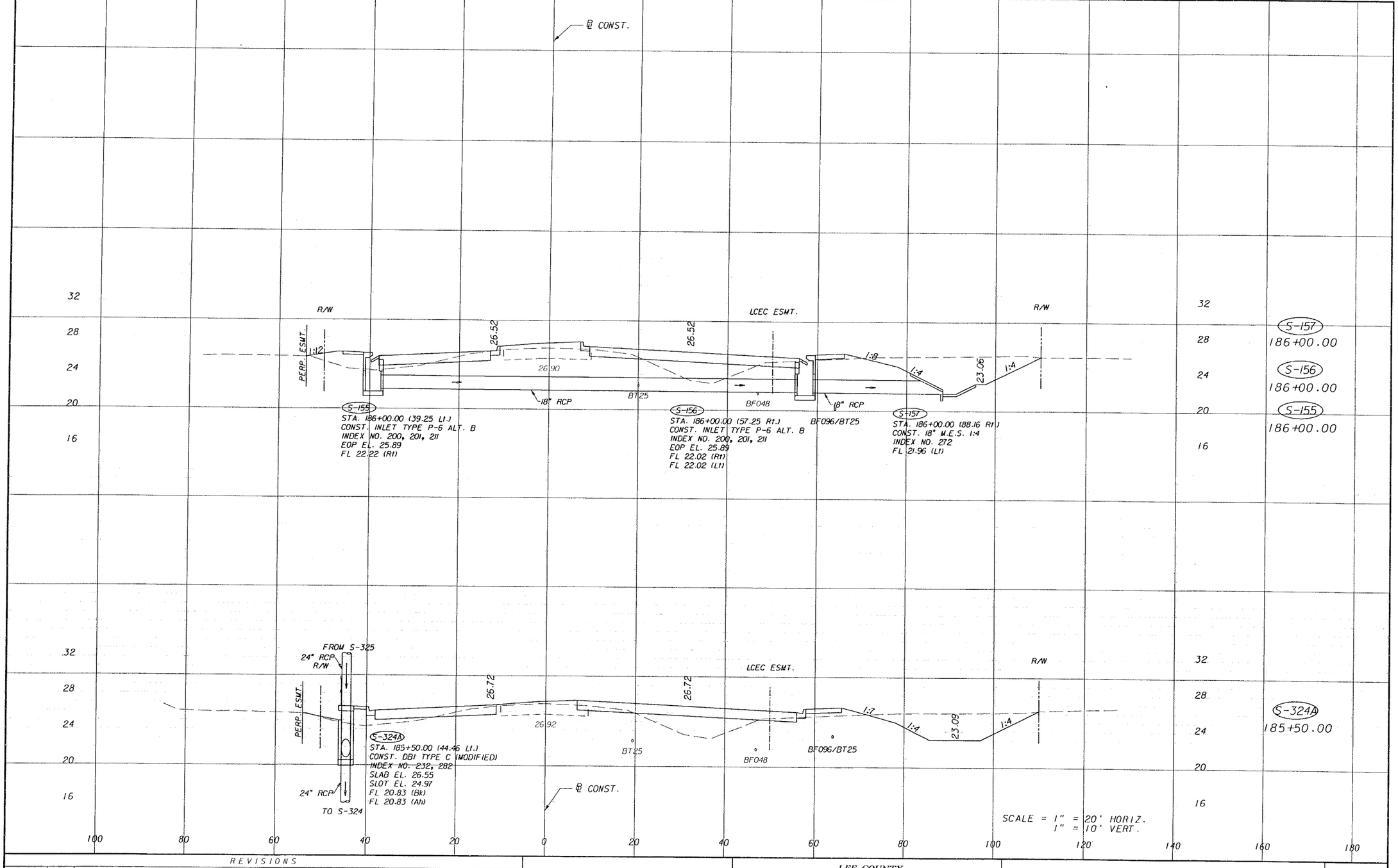

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIRNIE, MARTIN, STEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 102

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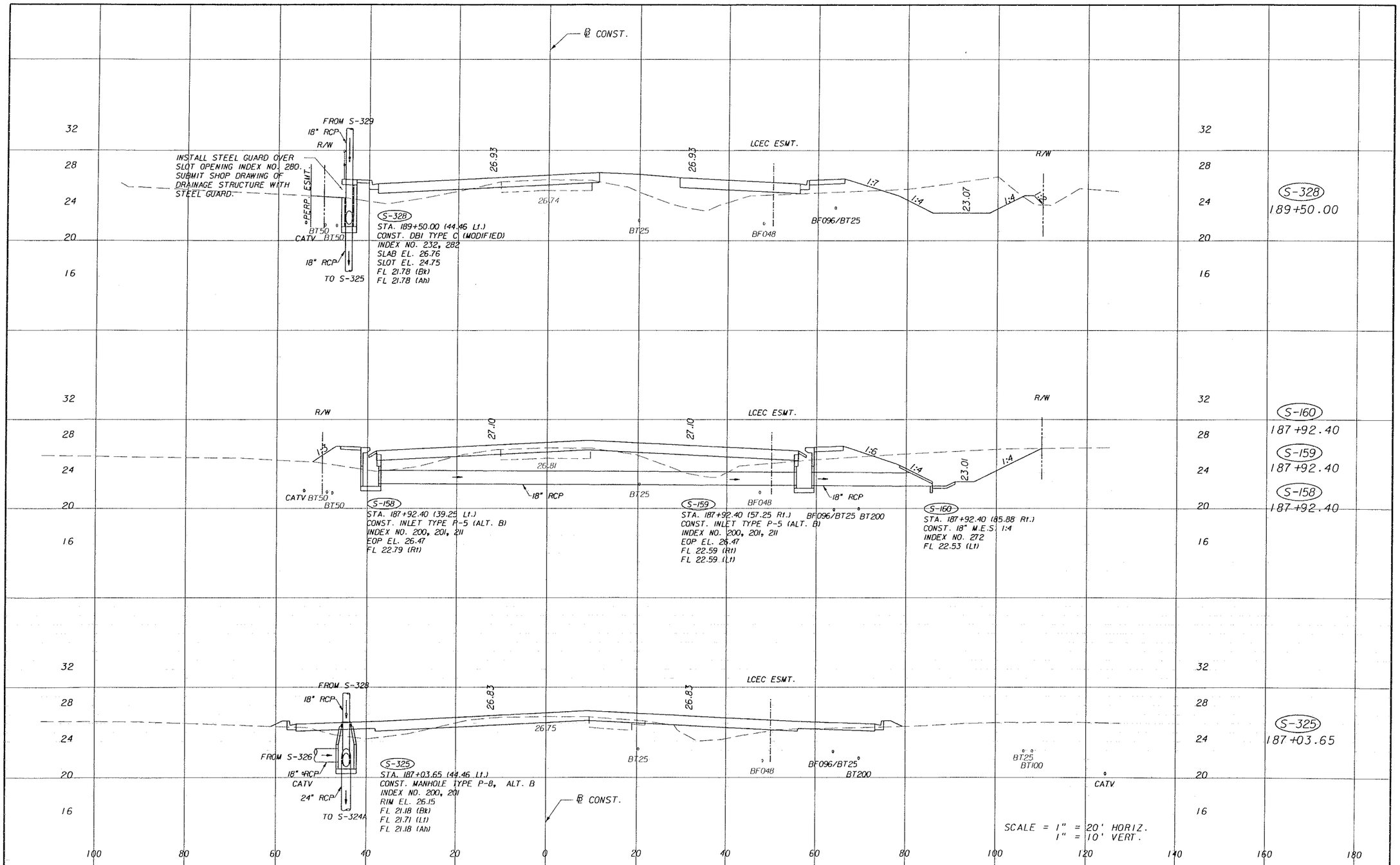

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 103

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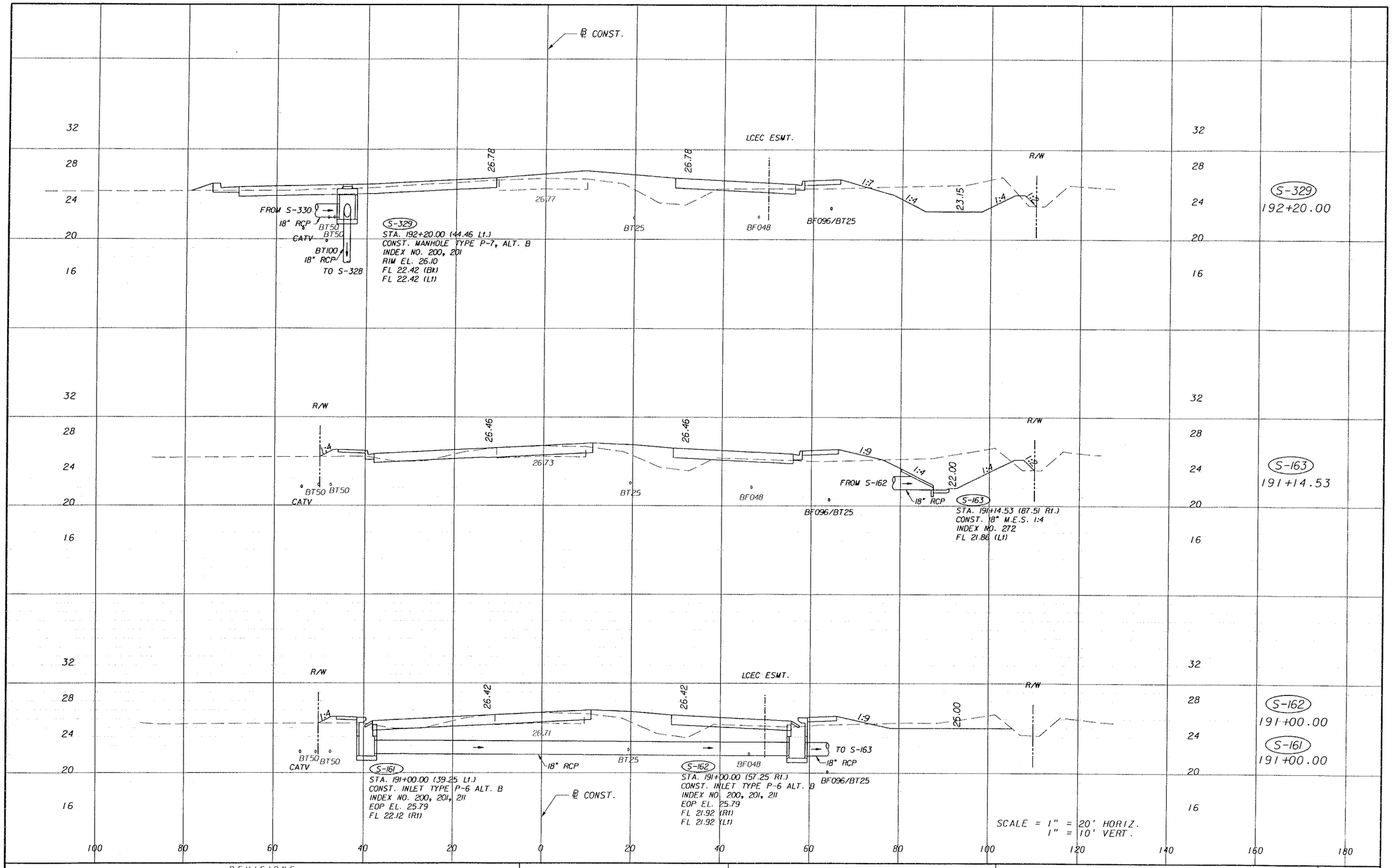

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George A. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 104

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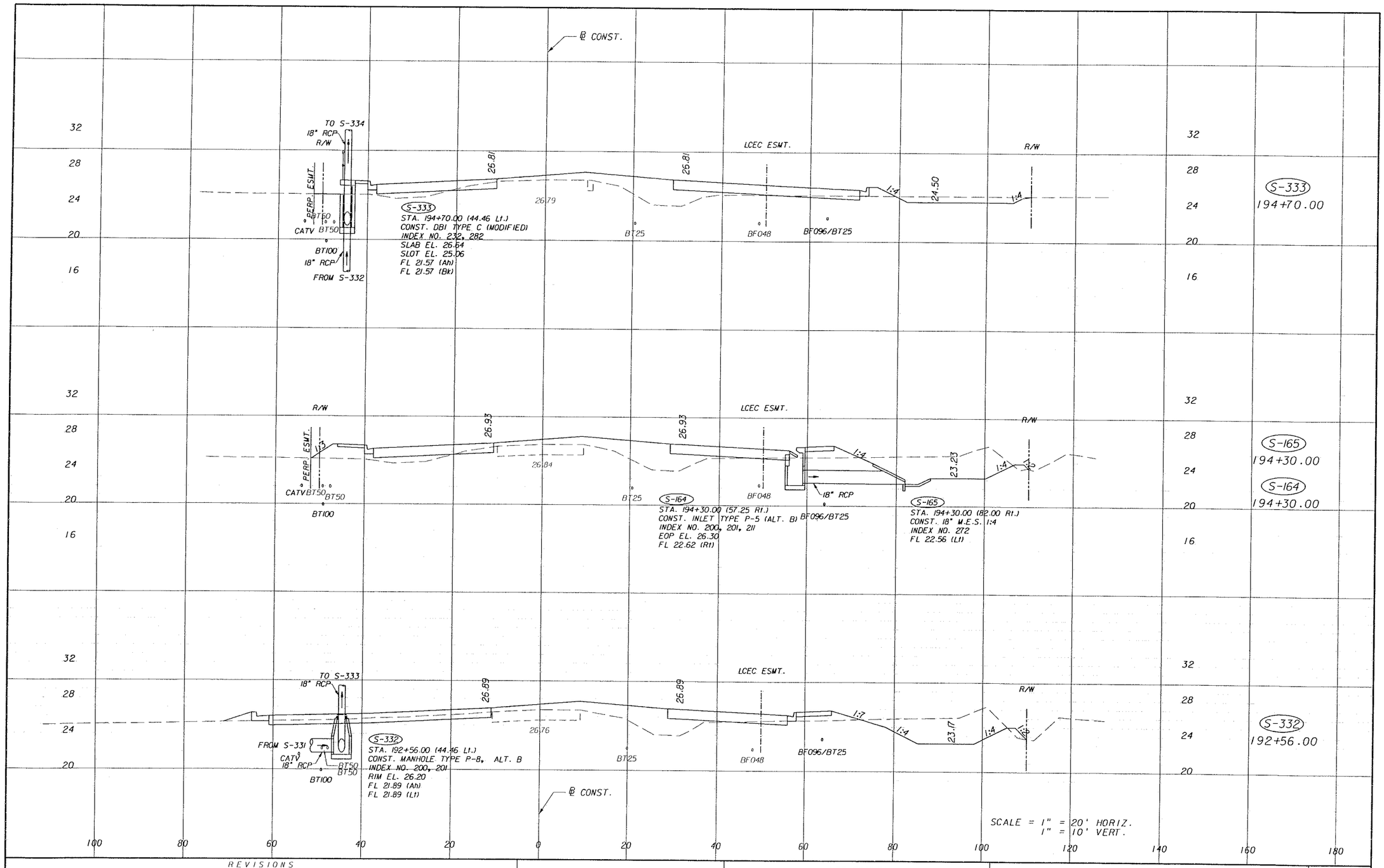

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMONT PARTNERSHIP & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 105

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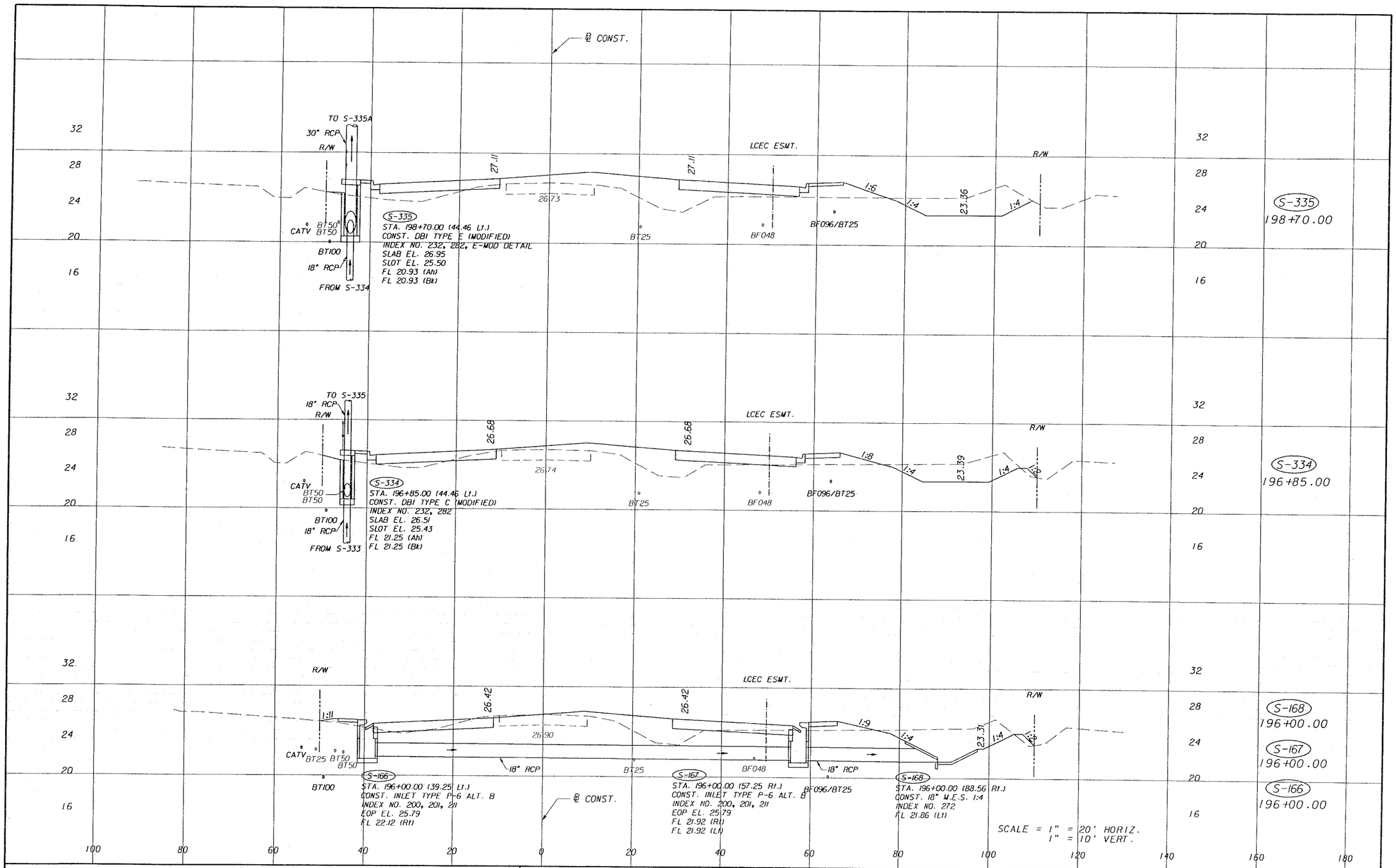


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FIGNAR HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

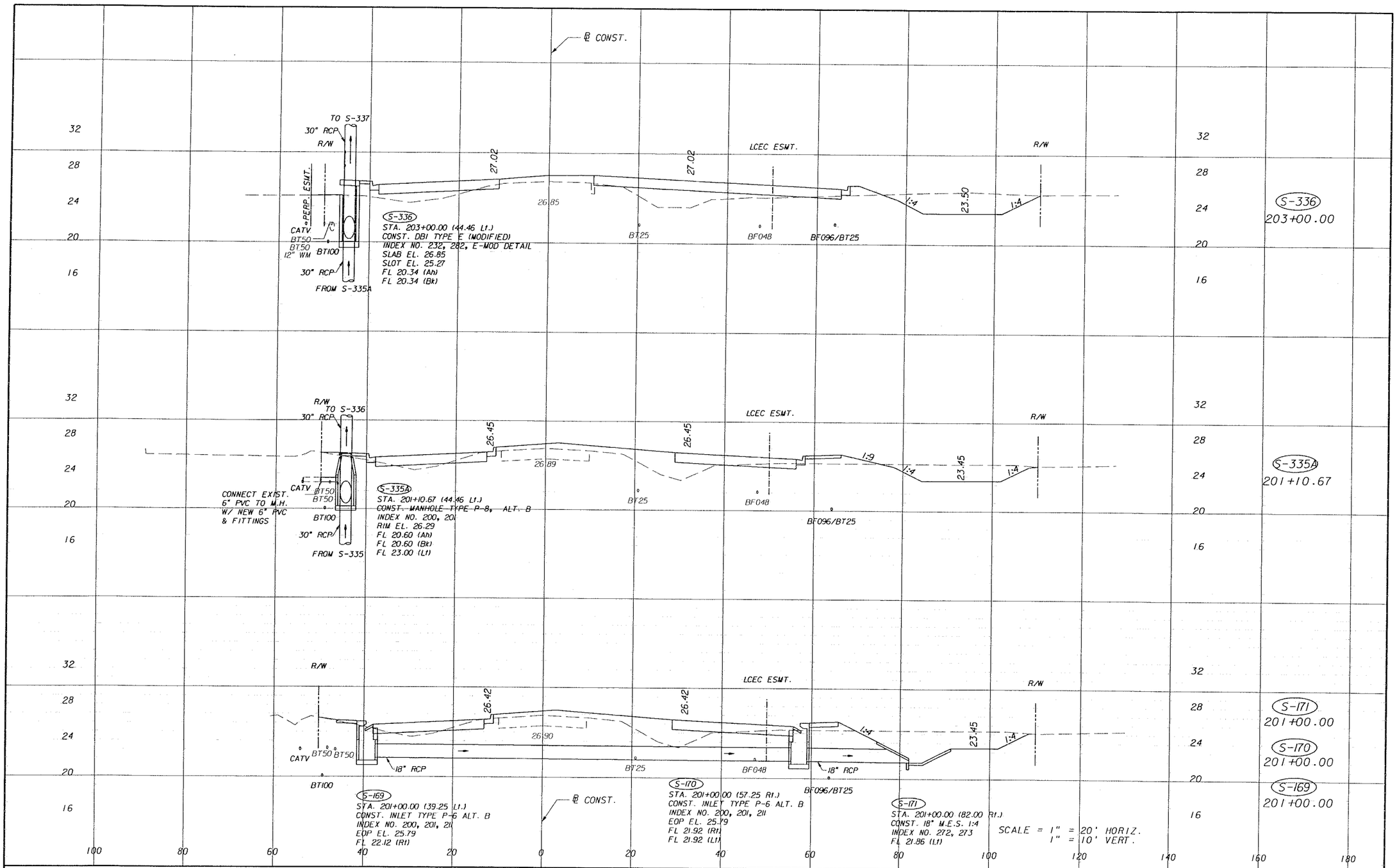
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
106

09/13/2005 07:37:16 AM P:\99012.201\cadd\roadway\drstrdGI.shg



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

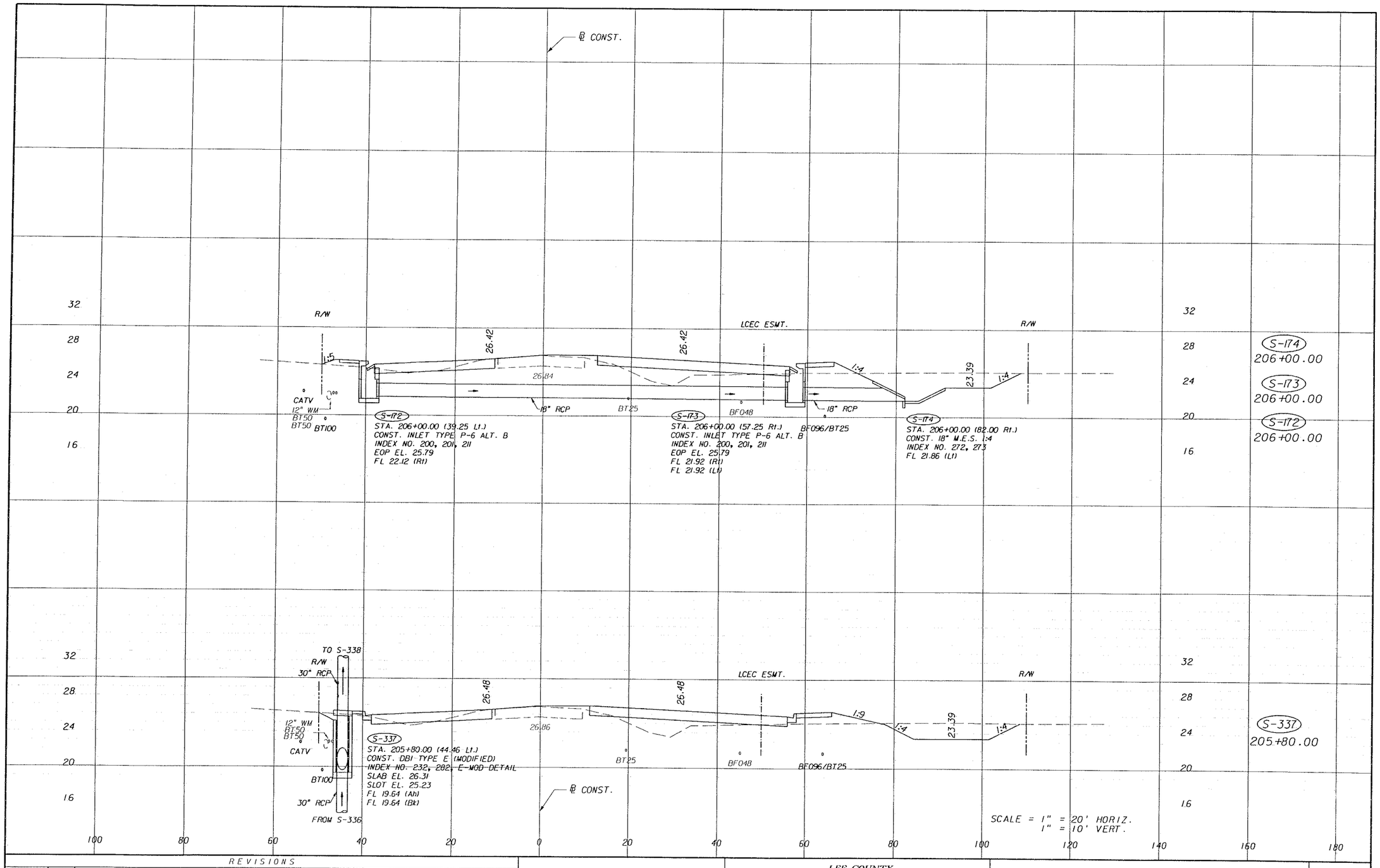
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 107

09/13/2005 07:37:16 AM P:\99012.201\cadd\rcsdwgy\drstrdGI.shg



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTLEY • STEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

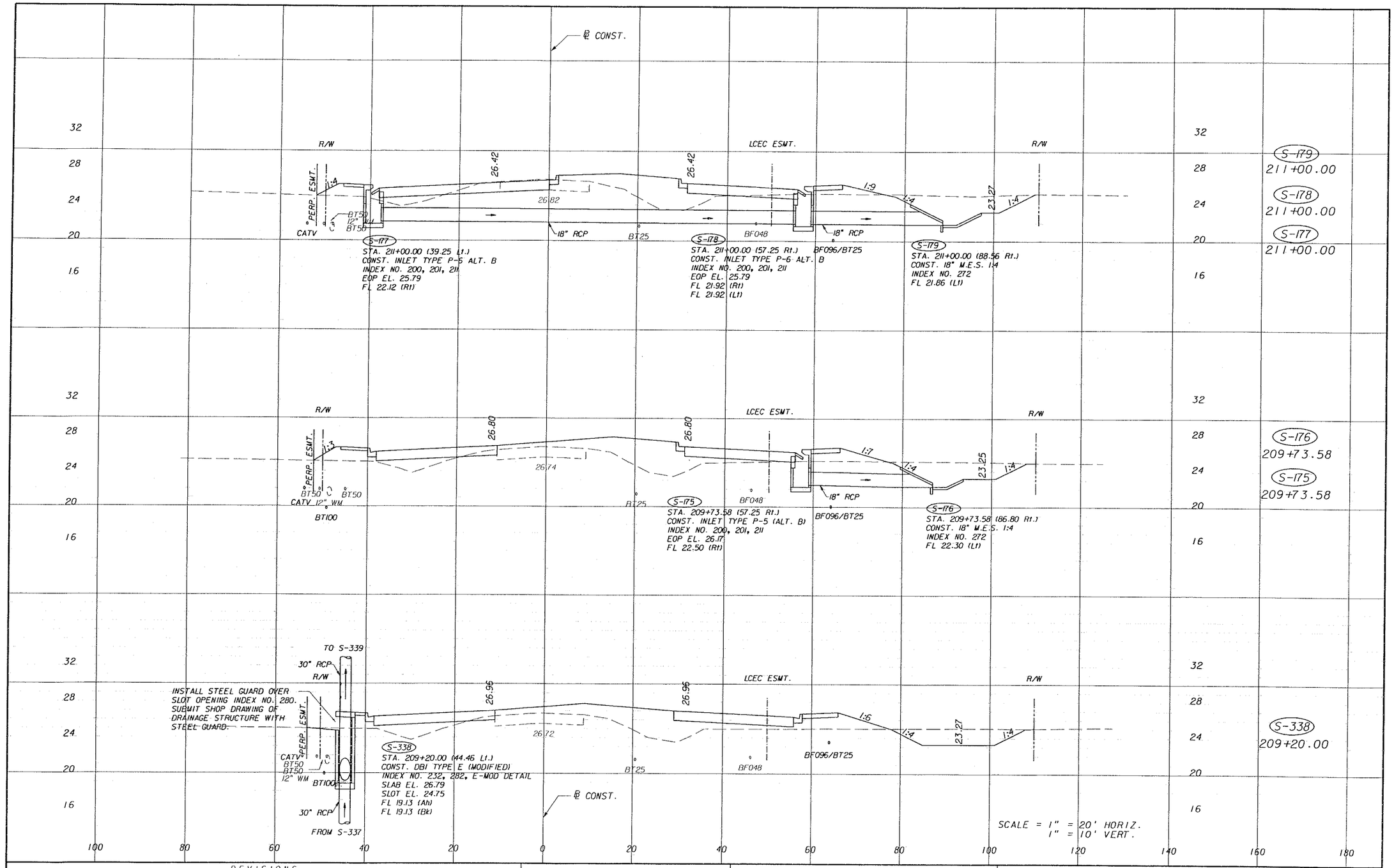
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
108

09/13/2005 07:37:16 AM P:\99012.201\cadd\rcadway\drstrd01.shg



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIRIE ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 109

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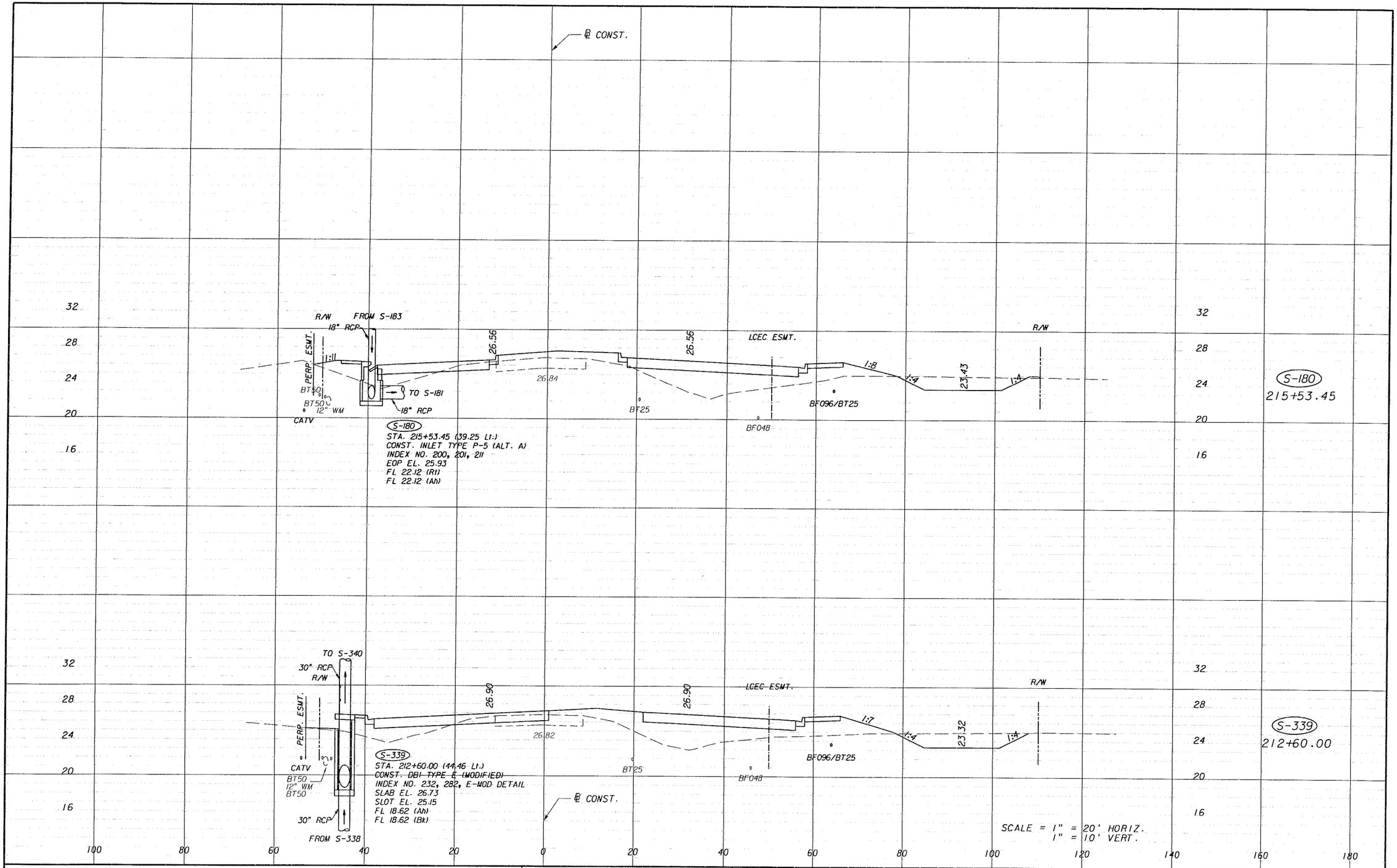

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEYMAN'S HARVENTSTICK & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 110

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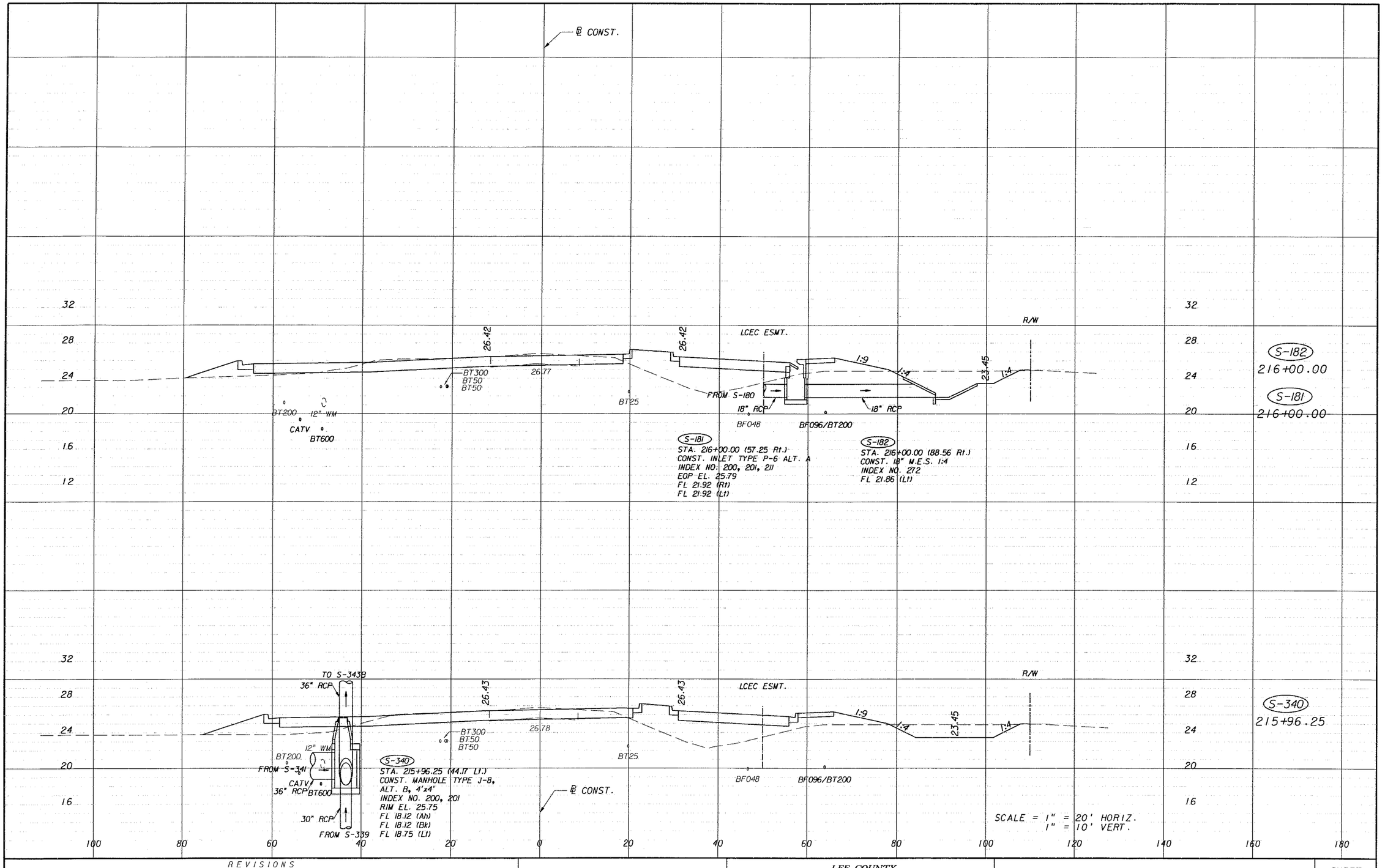

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 111

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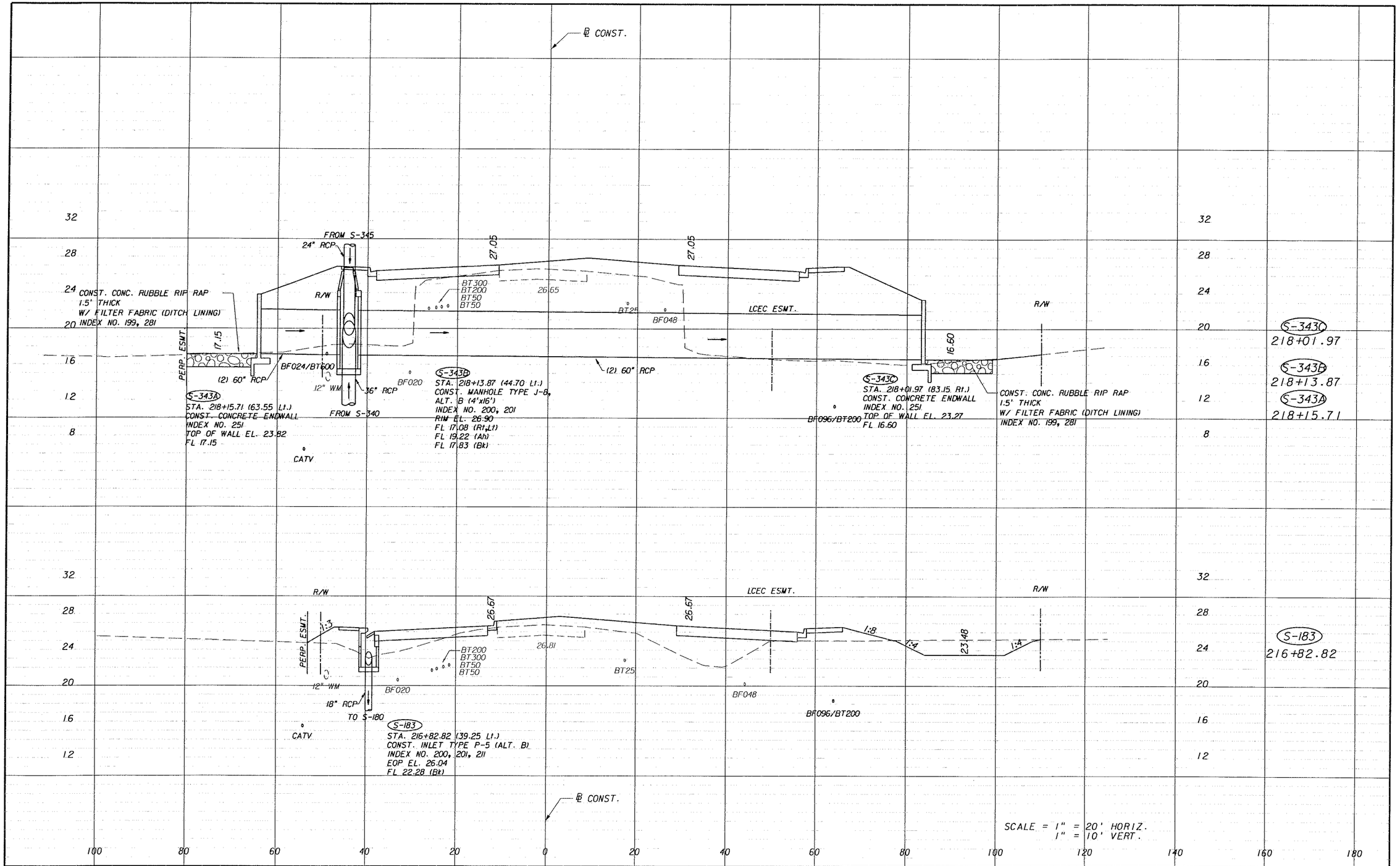

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 112

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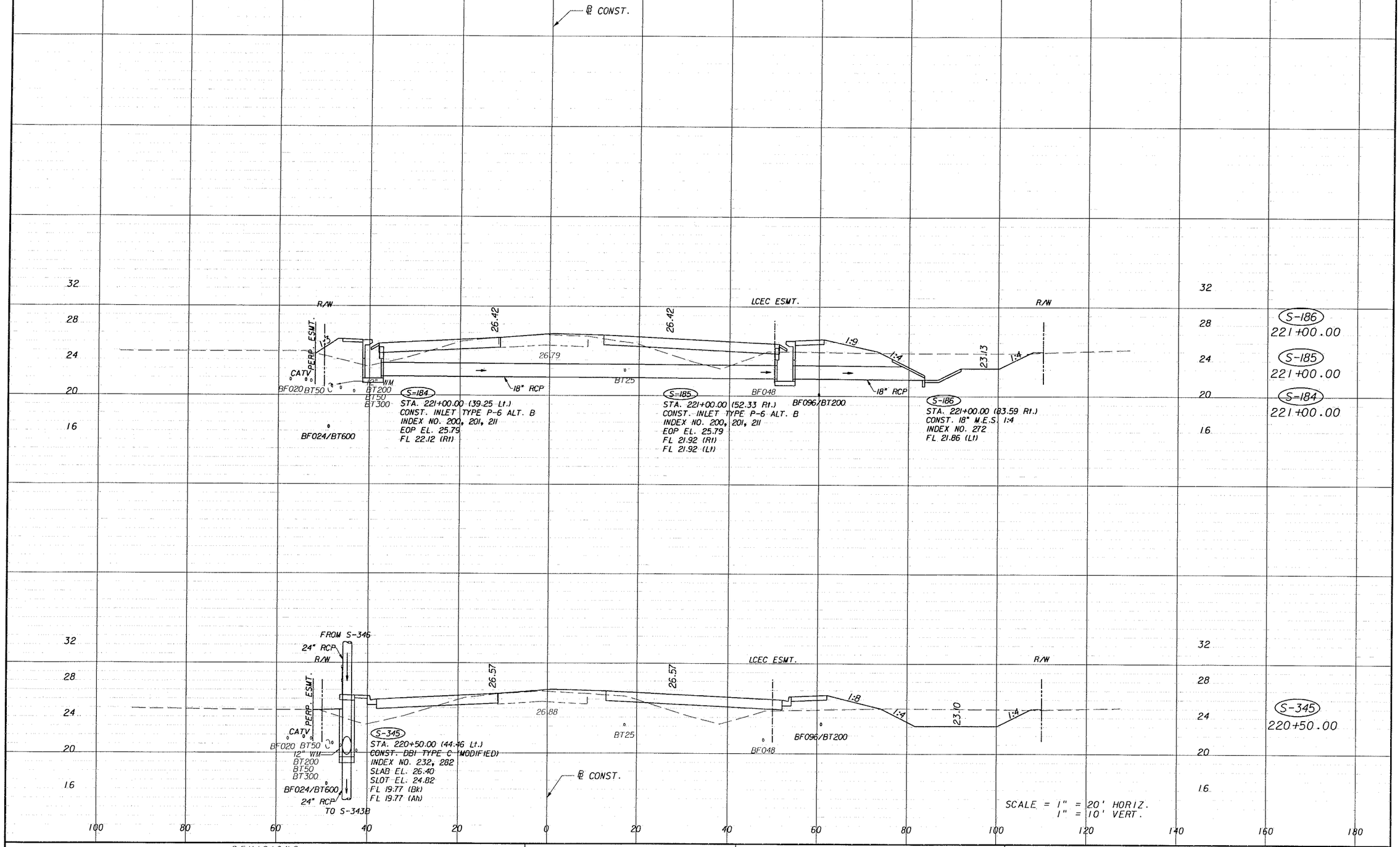

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTINE & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 113

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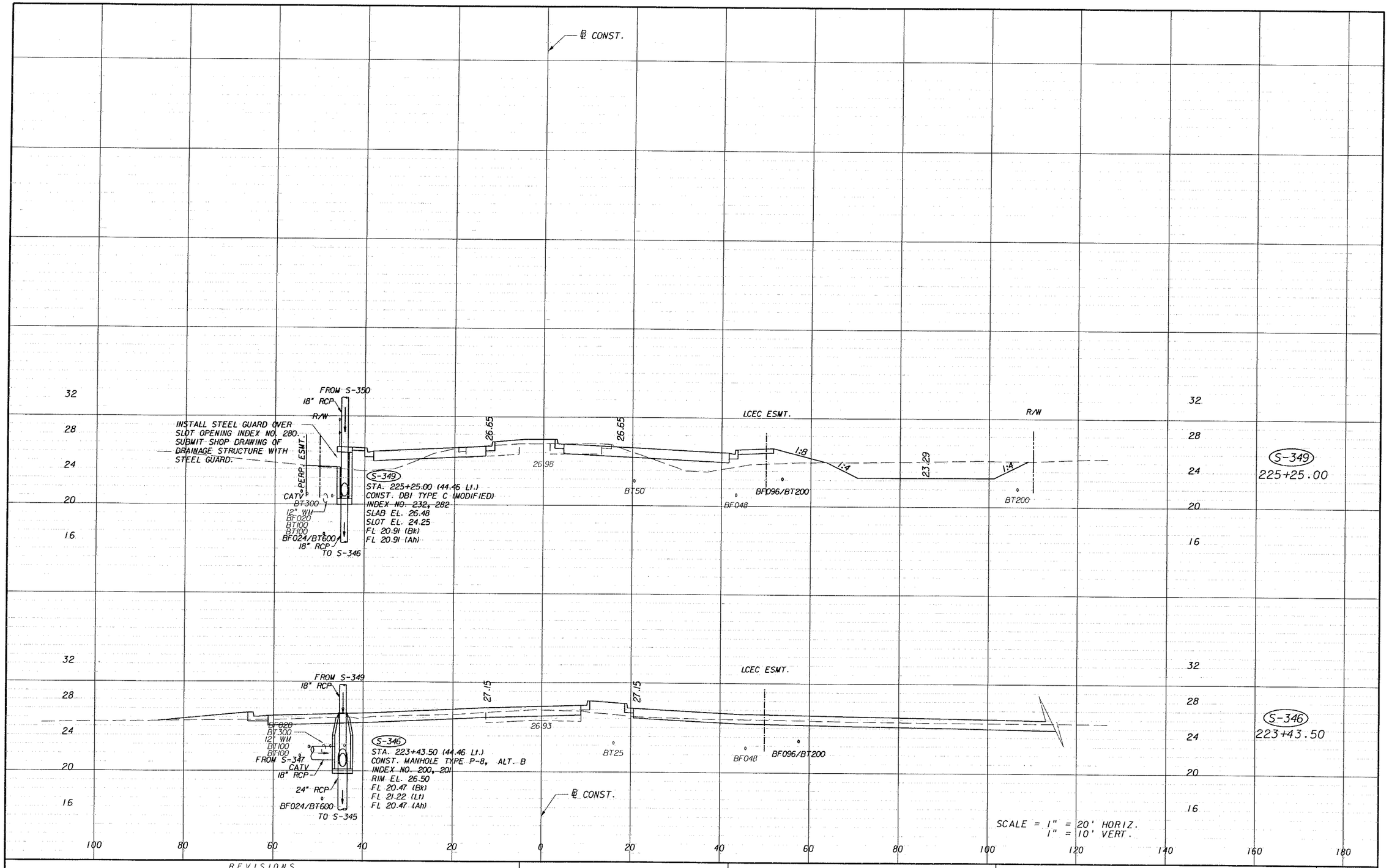

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN, BARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
114

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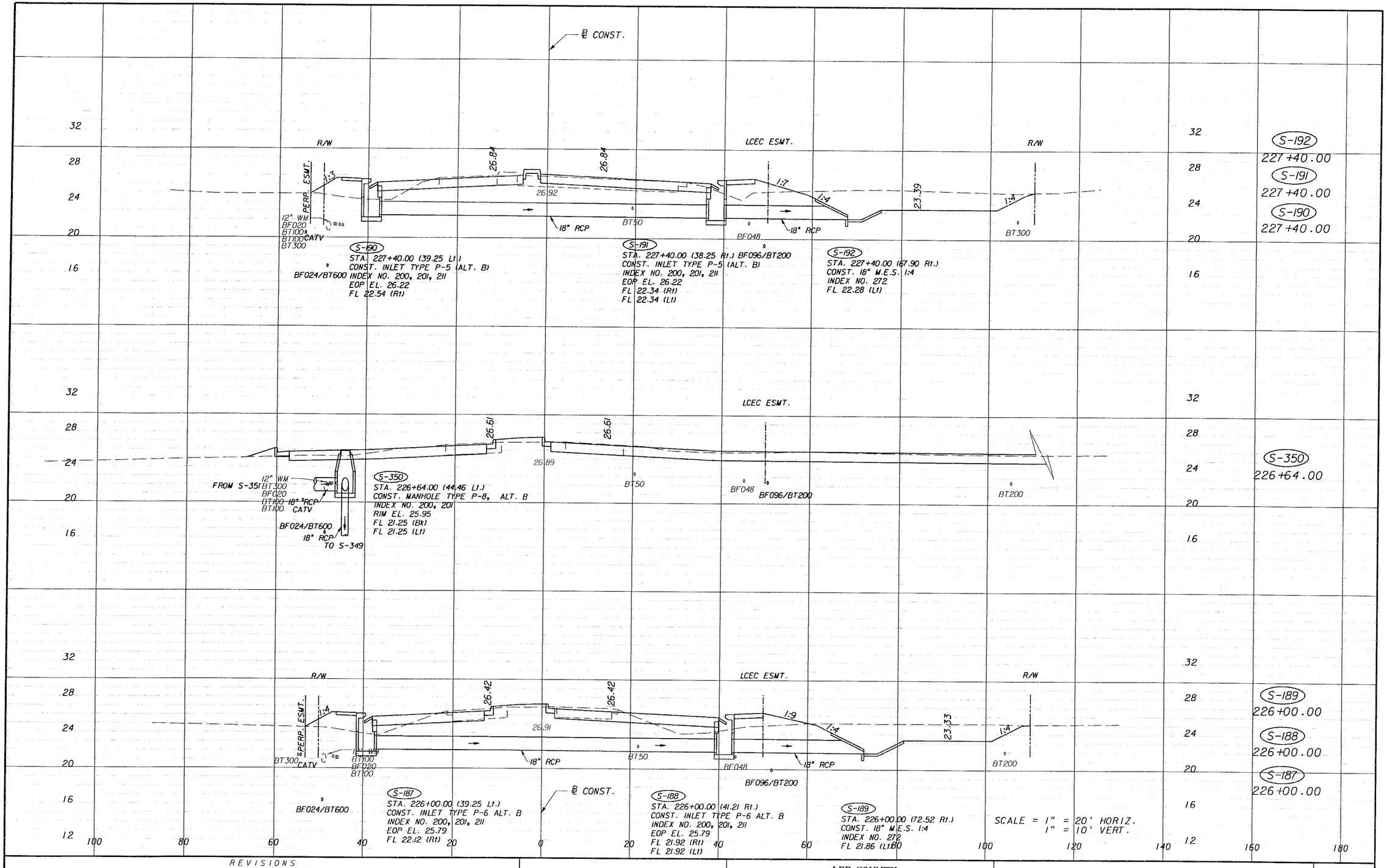

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 115

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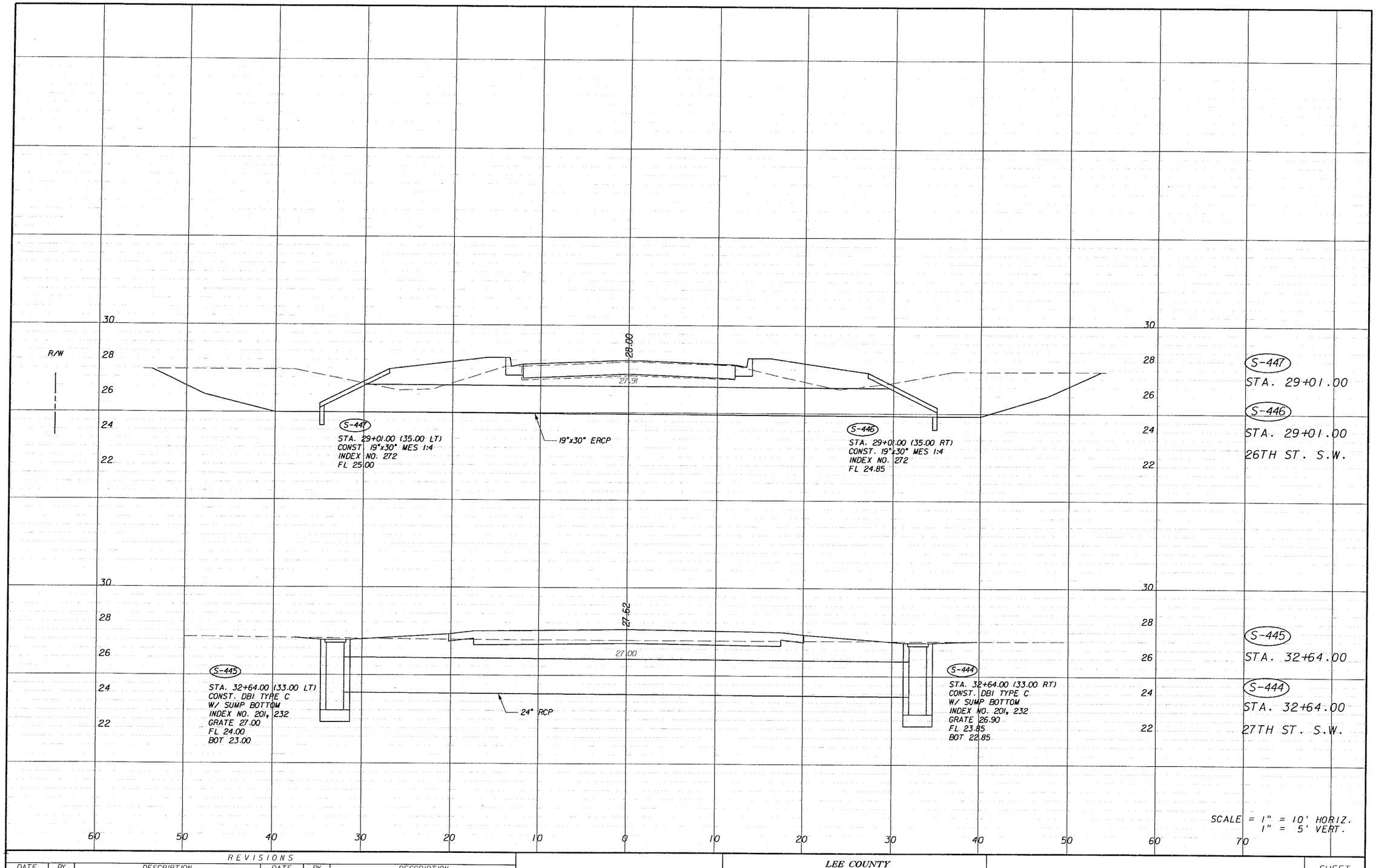

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 116

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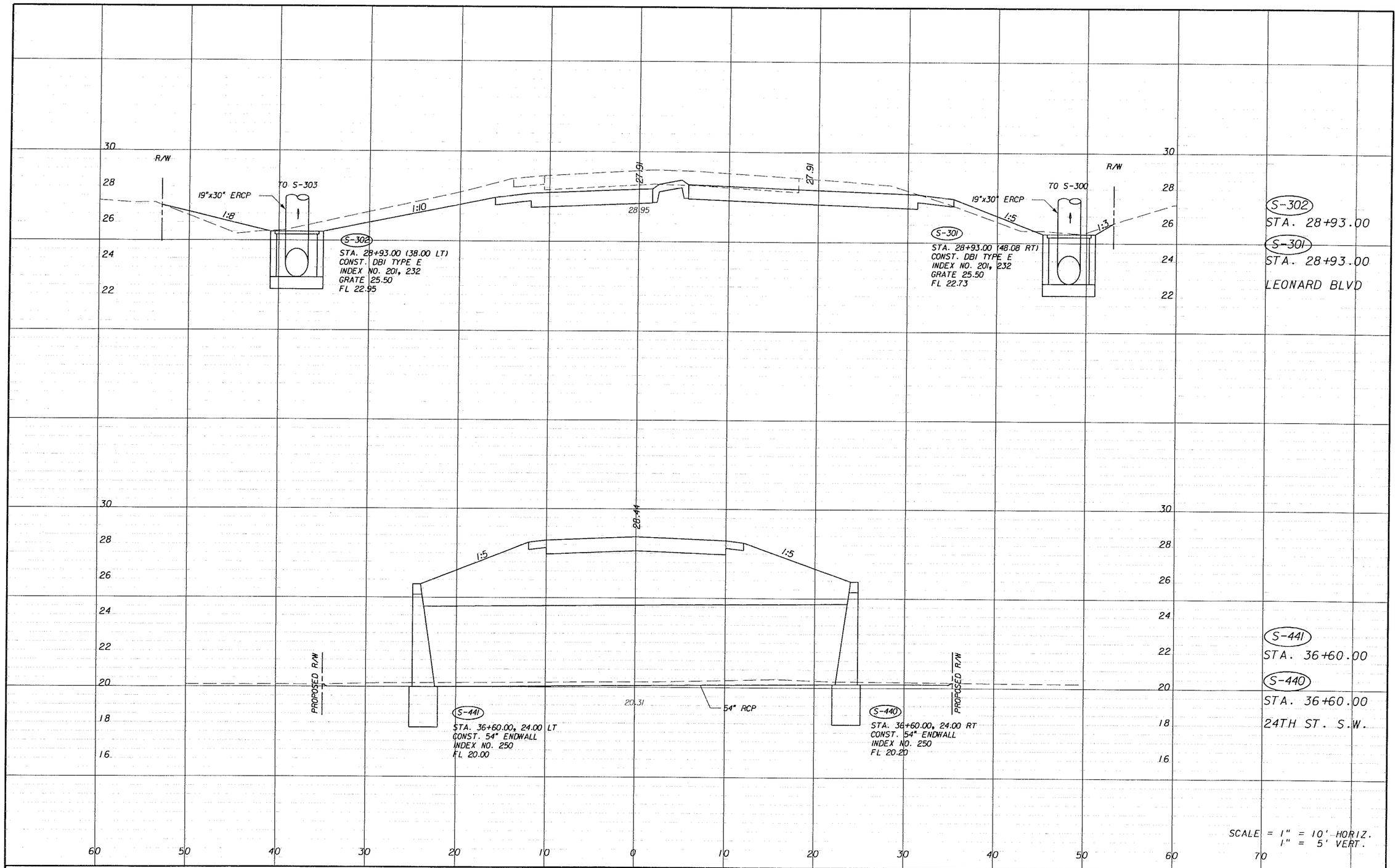

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 117

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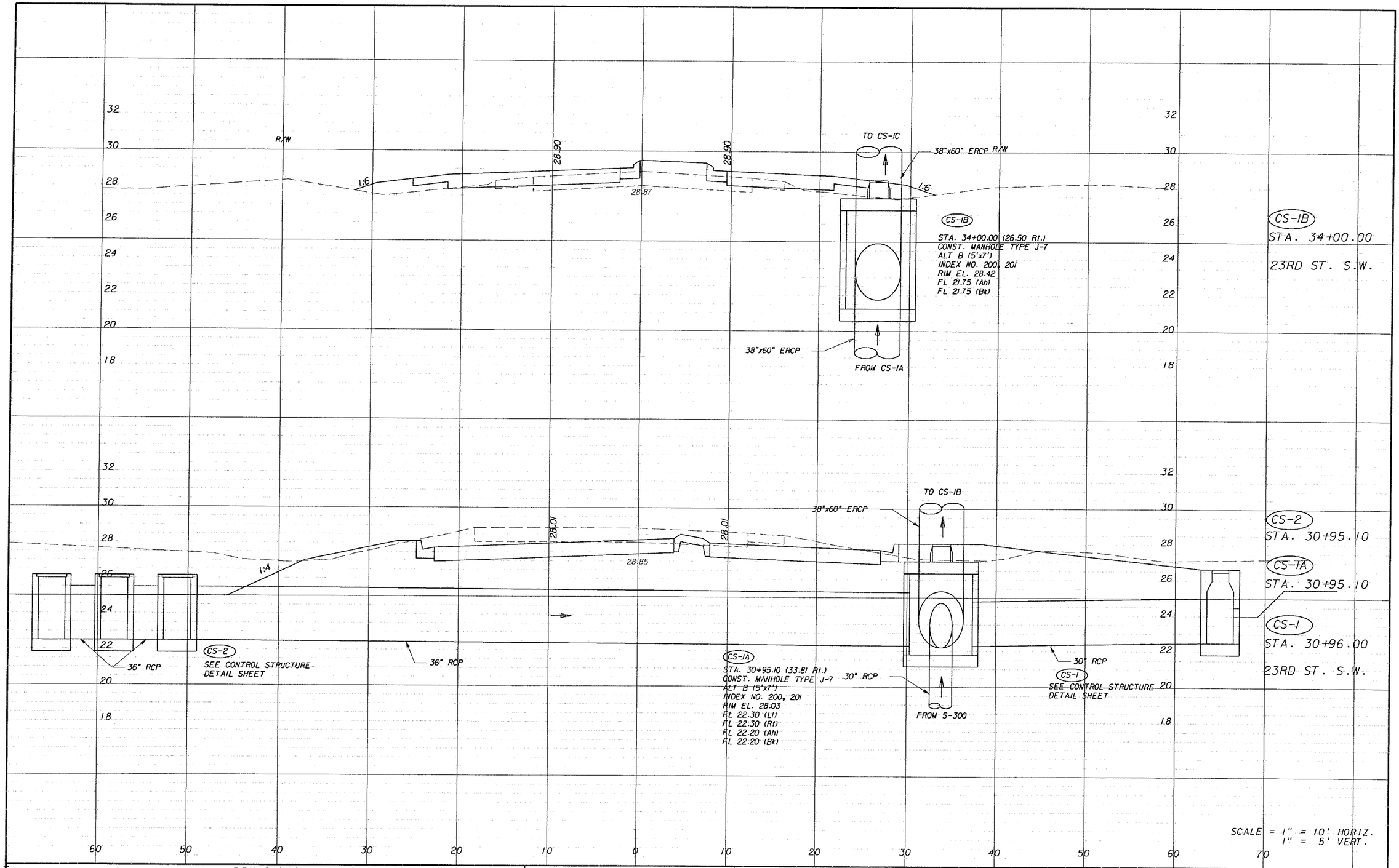

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTVIGSEN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 118

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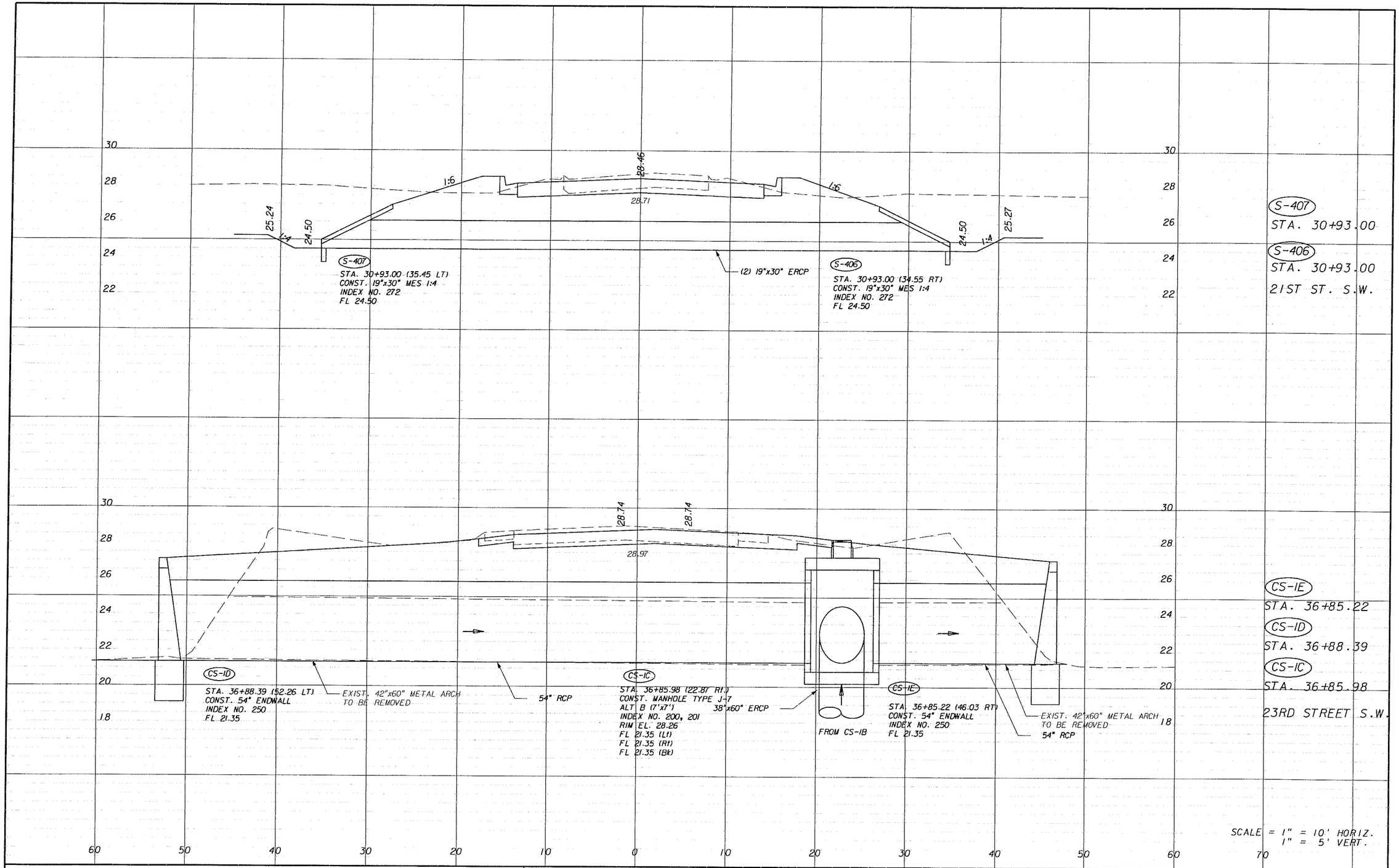

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 119

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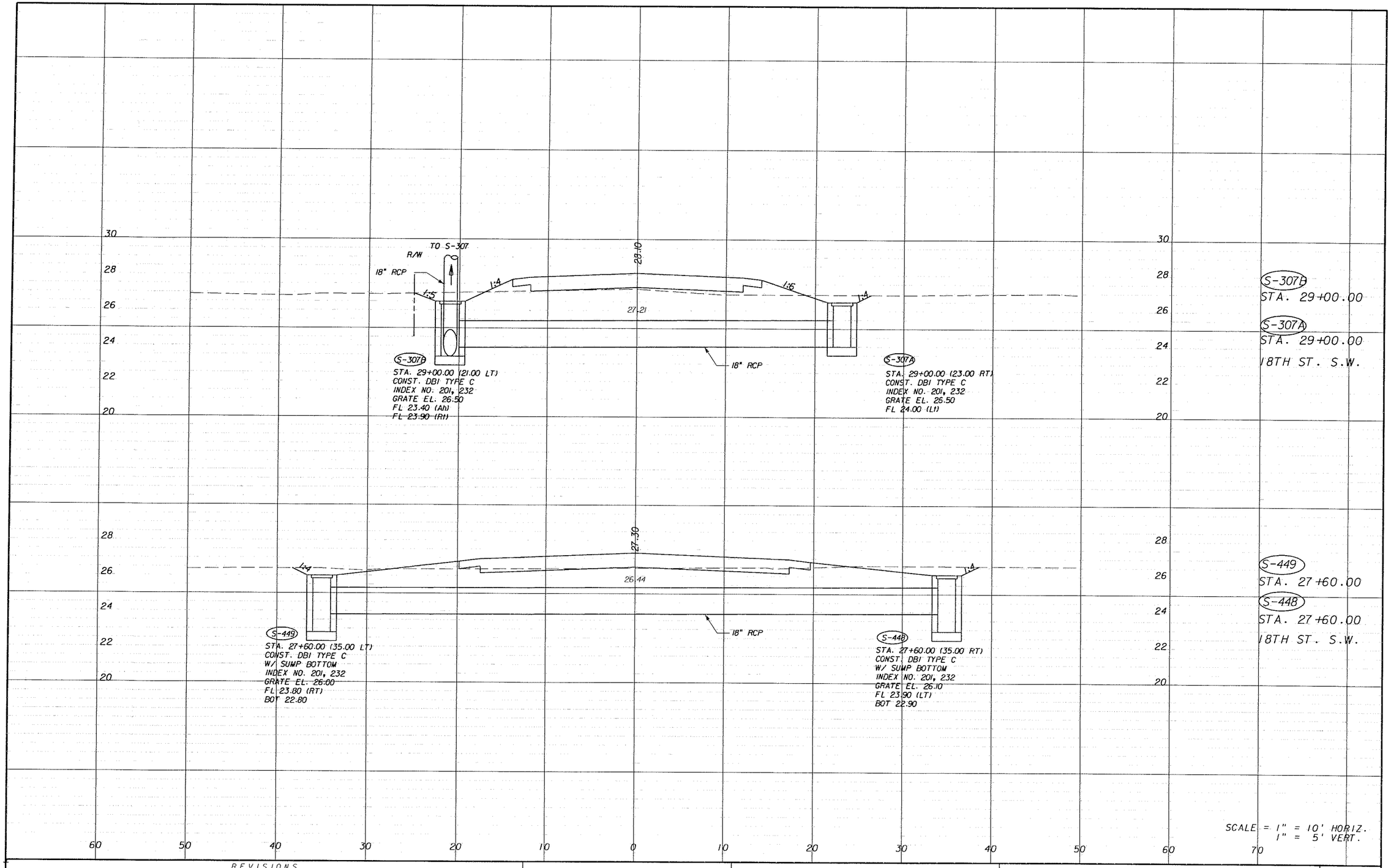

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 120

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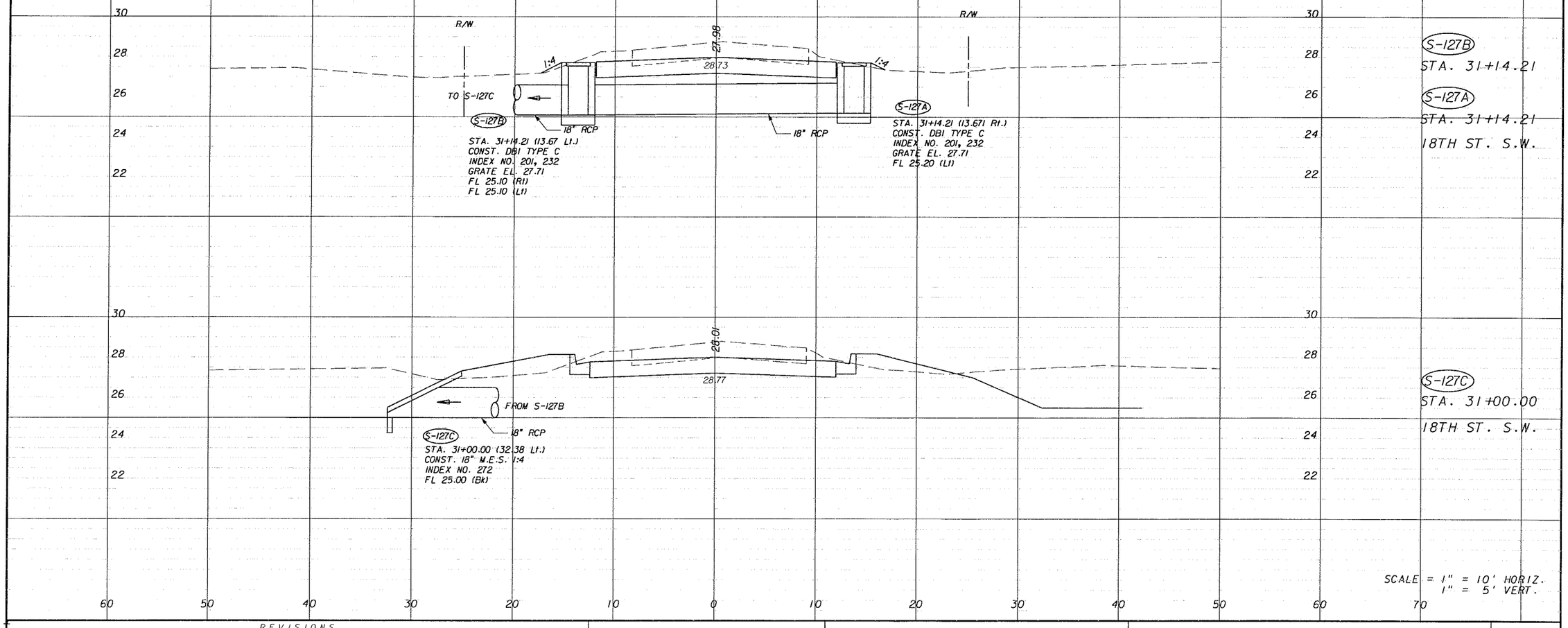

SCALE = 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 121

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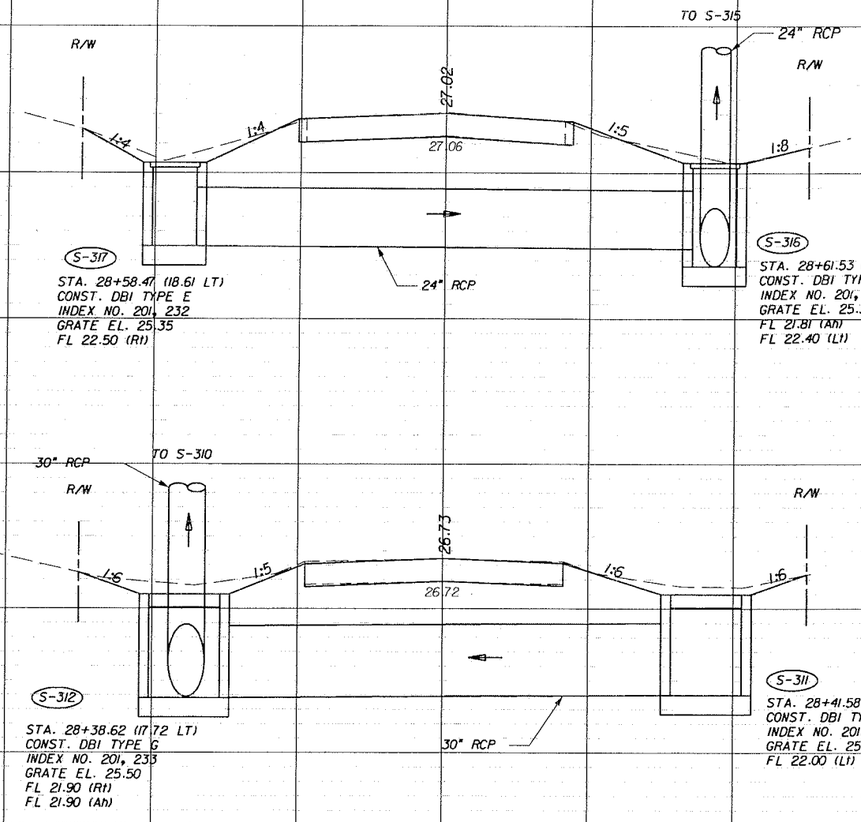

S-317
STA. 28+58.47

S-316
STA. 28+61.53
14TH ST. S.W.

S-312
STA. 28+38.62

S-311
STA. 28+41.58
15TH ST. S.W.

S-413
STA. 30+93.00

S-412
STA. 30+93.00
16TH ST. S.W.

SCALE = 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 122

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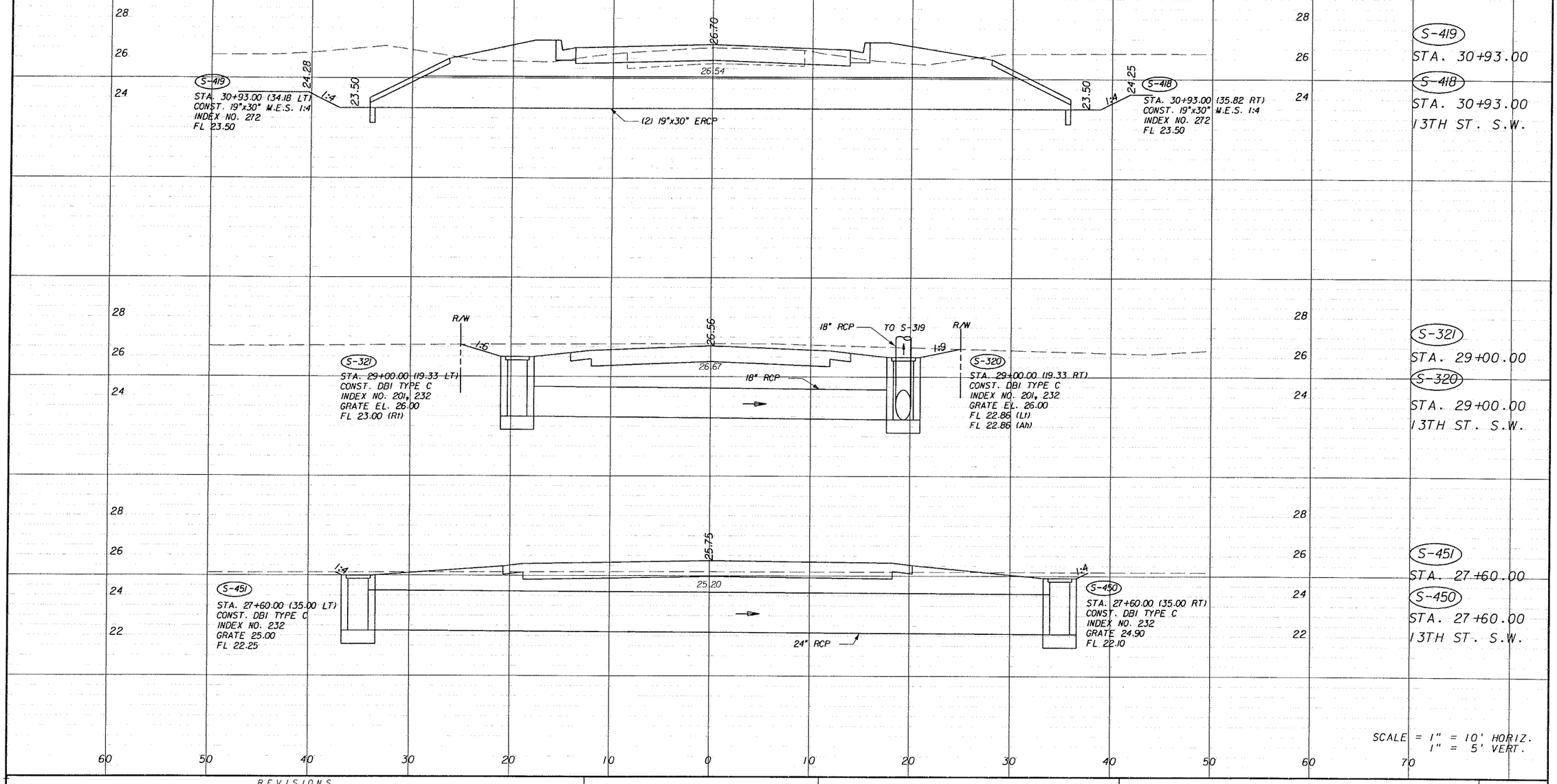

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIZMANY HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 123

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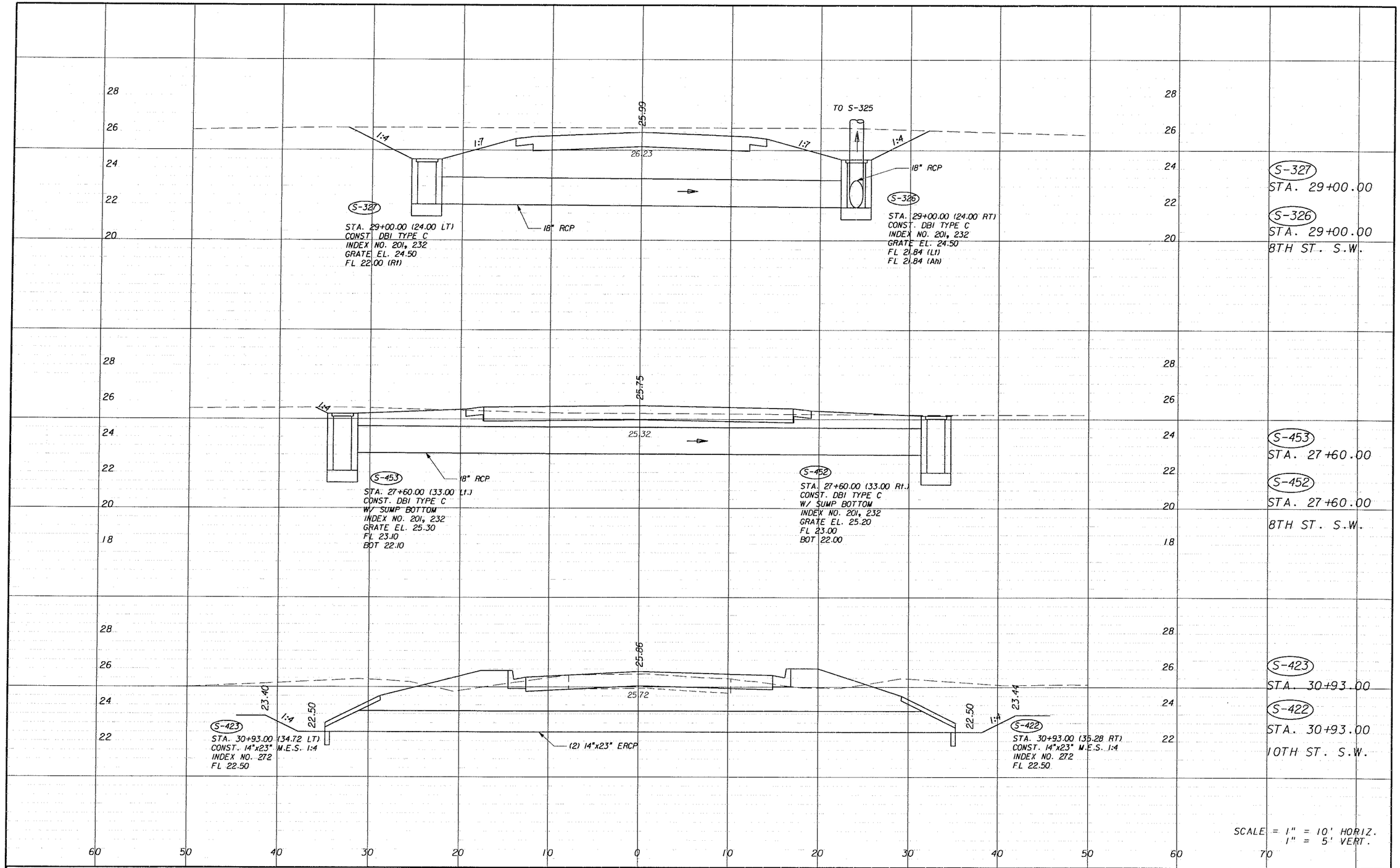

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HANTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plazo Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 124

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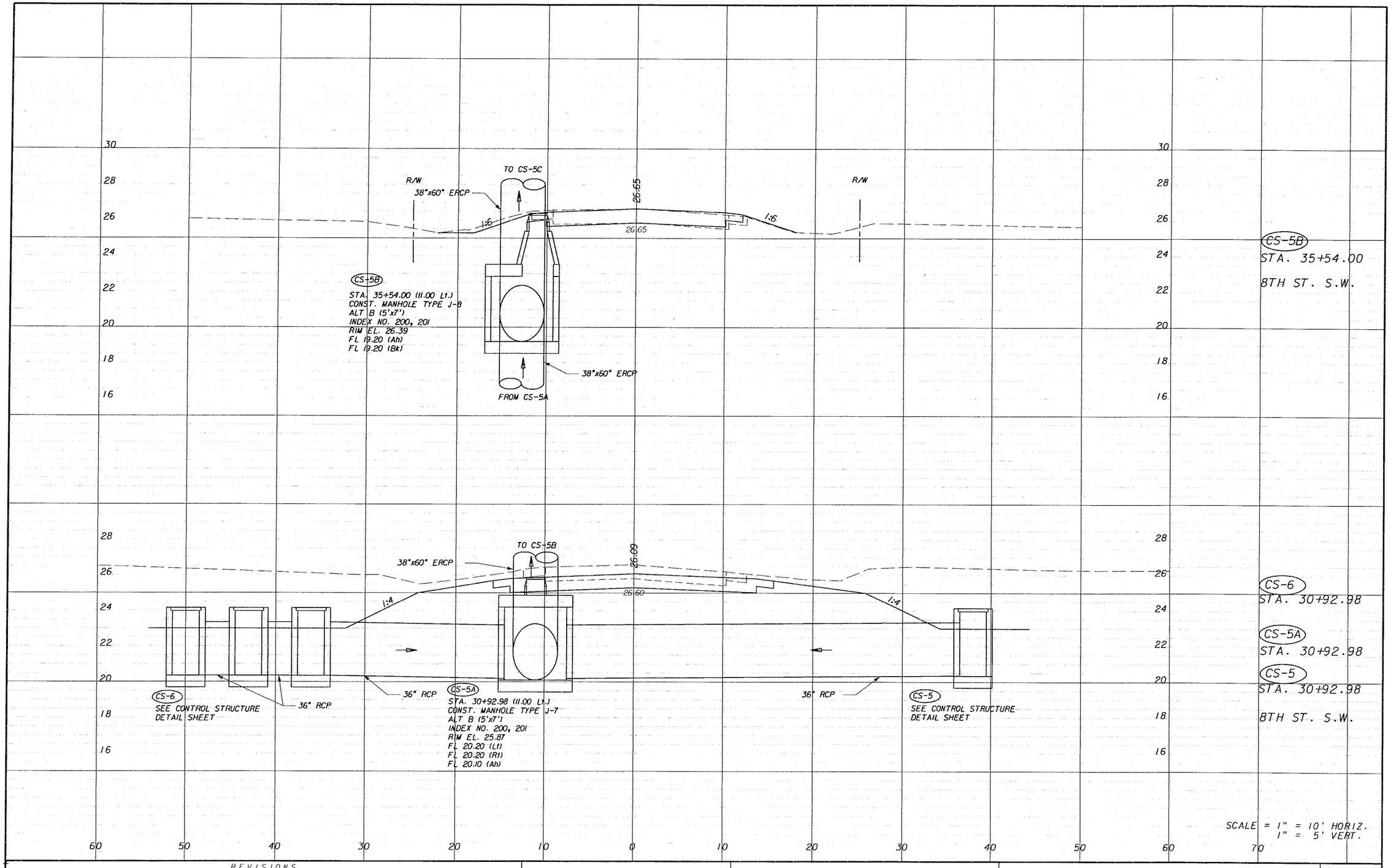

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARKINSTUN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 125

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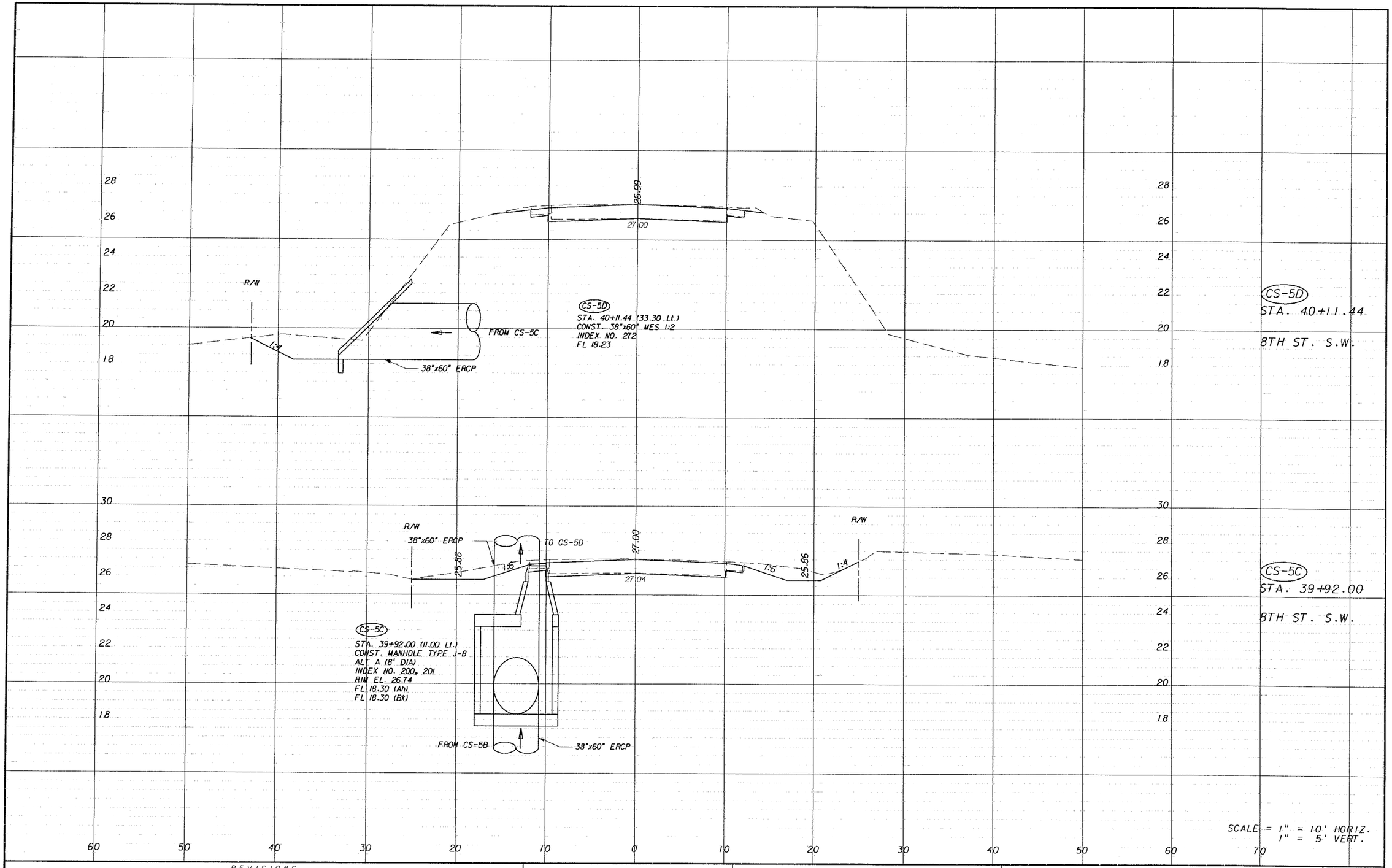

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO.
126

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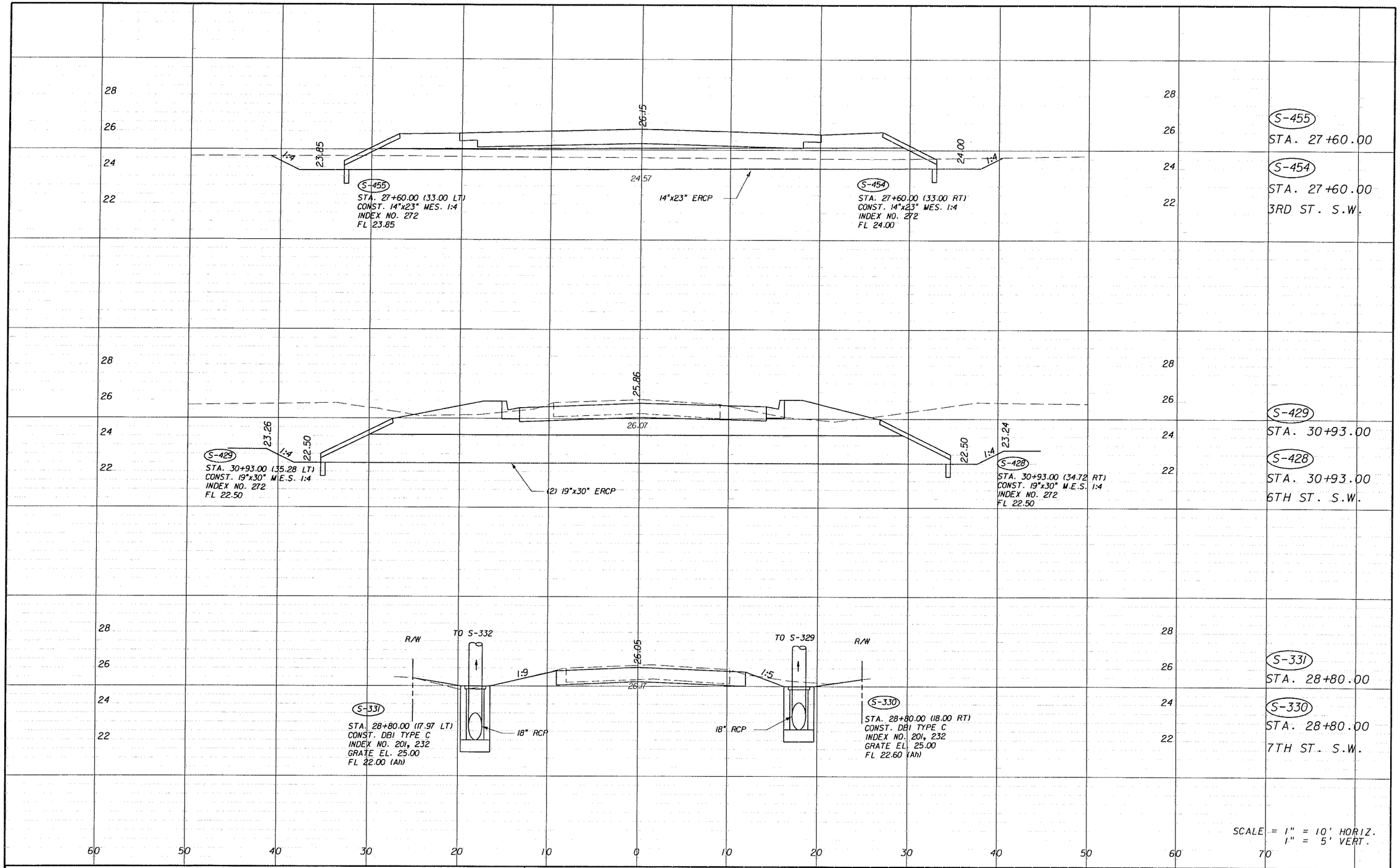

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 127

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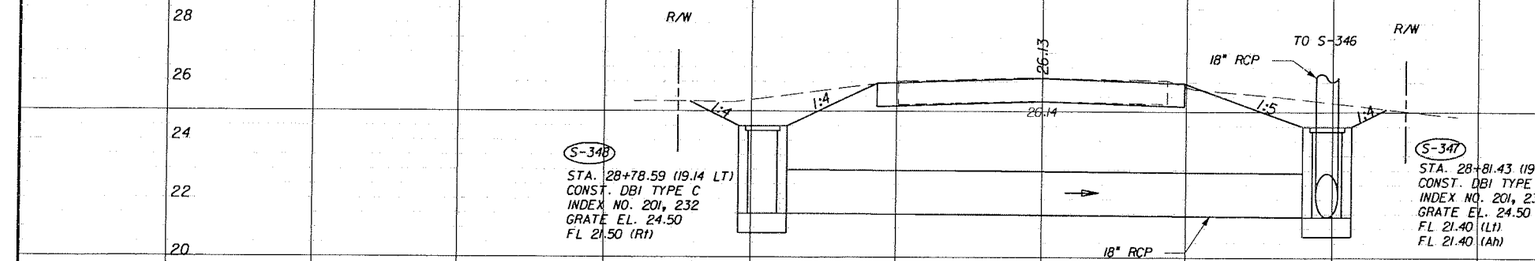
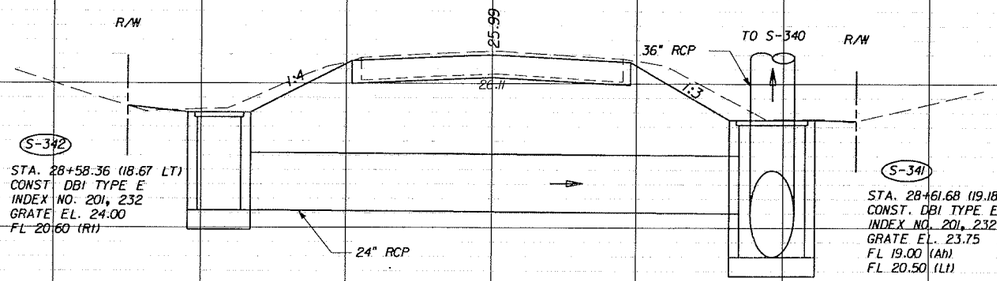
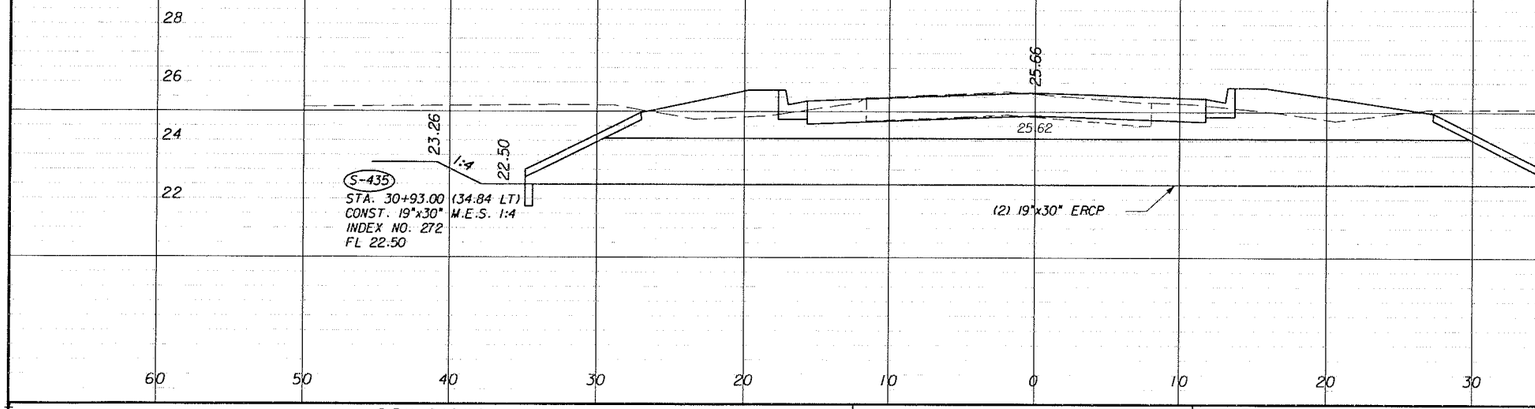






S-348
STA. 28+78.59

S-347
STA. 28+81.43
THIRD ST. WEST

S-342
STA. 28+58.36

S-341
STA. 28+61.68
DOUGLAS ST.

S-435
STA. 30+93.00

S-434
STA. 30+93.00
1ST ST. S.W.

SCALE = 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

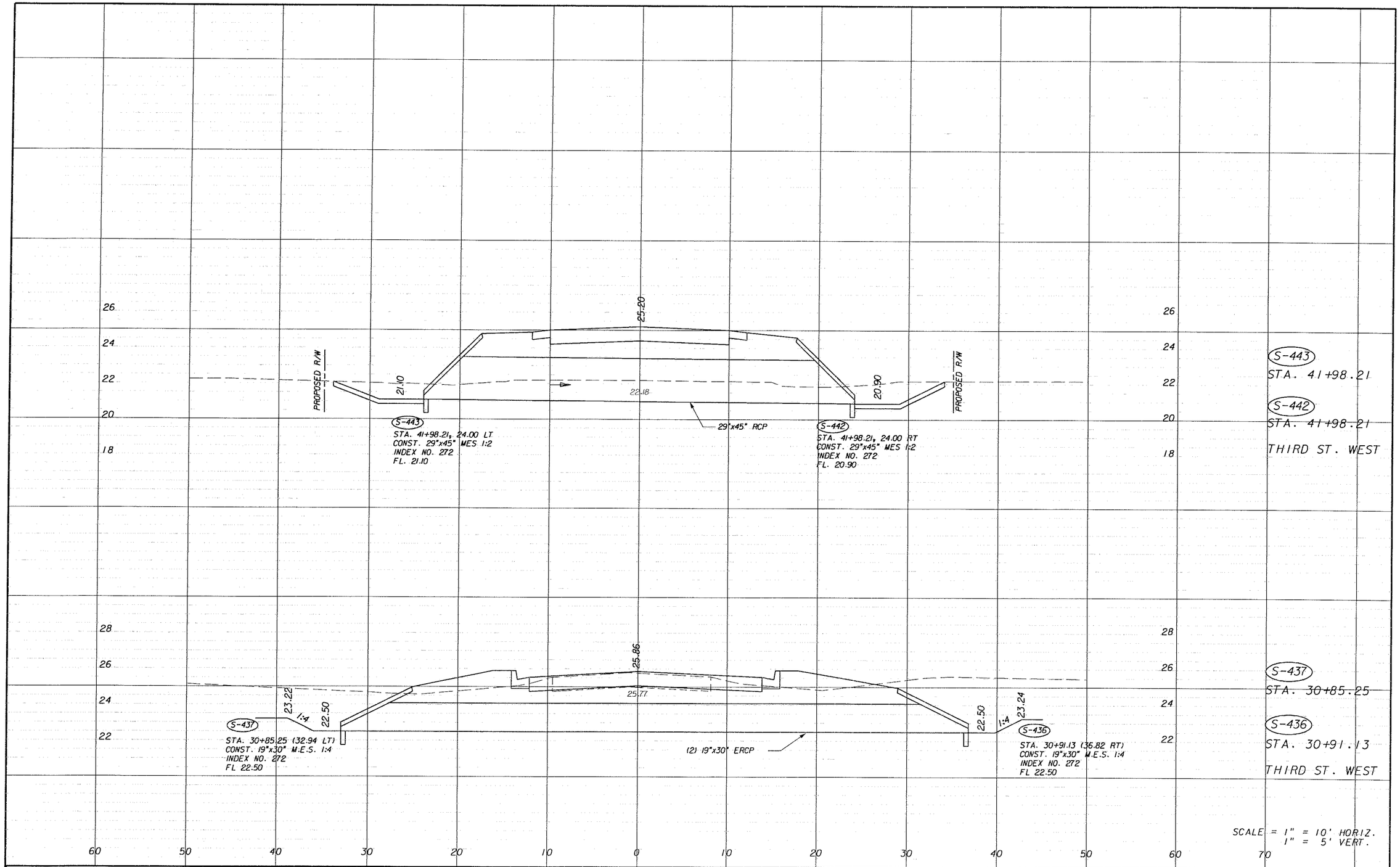
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 128

09/13/2005 07:37:25 AM P:\99012.201\cadd\roadway\drstrd02.shg



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

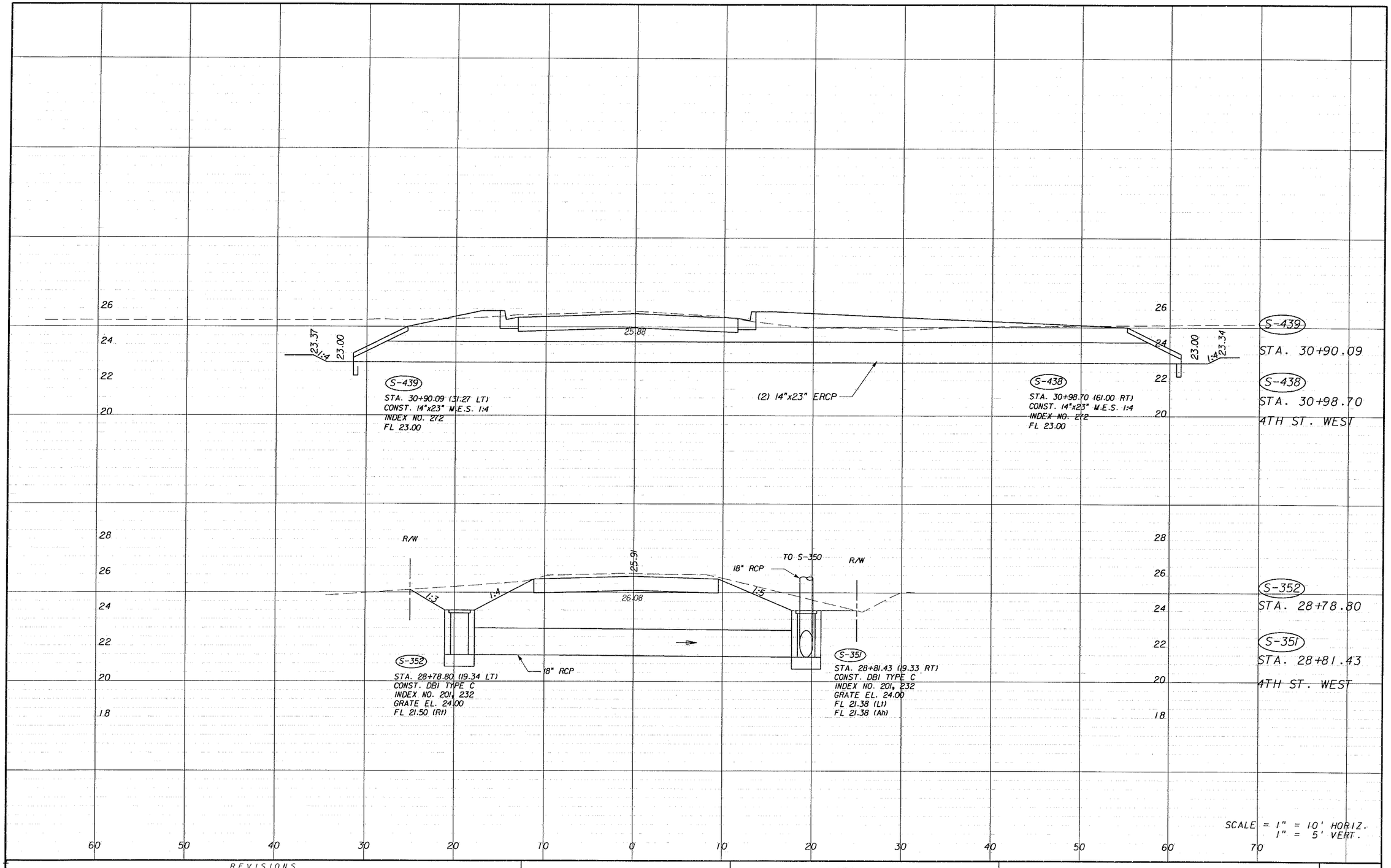
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 129

09/13/2005 07:37:26 AM P:\99012.201\cadd\roadway\drstrd02.shq



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTUNGER & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

DRAINAGE STRUCTURES

SHEET NO. 130

09/13/2005 07:37:26 AM P:\99012.201\cadd\roadway\drstrd02.shg

LEE COUNTY
DEPARTMENT OF TRANSPORTATION
GUNNERY ROAD WIDENING PROJECT

DATE OF SURVEY: MAY 16, 2002
SURVEY MADE BY: CM
SUBMITTED BY: ALLIED ENGINEERING & TESTING, INC.

ALLIED PROJECT ID: 42-5704

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 112+00 SURVEY ENDS STA.: 229+00

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC.	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohms cm	CHLORIDE ppm	SULFATES ppm	pH
1	0	.	.	0	.	.	.	.	.	0	.	.	A-1-a	White, light gray, LIMESTONE, medium hard to hard, wet	0	.	.	.	.
2	0	.	.	0	.	.	.	.	.	0	.	.	A-1-b	Light gray, WEATHERED LIMESTONE, weathered to silty sand and gravel very soft, wet	0	.	.	.	.
3	0	.	.	2	99.9-100	84.4	.	13.3-21.2	2.1-2.7	0	.	.	A-3	Light to dark brown and light to dark gray, clean, fine-grained SAND, very loose to medium dense, wet.	3	14,252-26,286	5-9	12-17	5.32-5.93
4	0	.	.	4	73.1-100	56.9-87	.	16.1-41.4	9.8-33.6	0	.	.	A-2-4	Light gray, olive gray, brown, and white silty SAND with gravel, slightly clayey to clayey SAND, and slightly gravelly clayey SAND, very loose to medium dense, wet.	0	.	.	.	.
5	0	.	.	2	92.9-98.8	88.3-98.2	.	86-97.1	45.7-67	0	.	.	A-4	White to light gray, silty SAND, very loose to loose, and slightly gravelly, sandy SILT, very soft to soft, wet.	0	.	.	.	.
6	0	.	.	2	99.3-100	98.3-99.9	.	93.2-99	78.3-93.5	0	.	.	A-5	Olive gray to dark olive gray, slightly sandy to sandy SILT, firm to stiff, wet	0	.	.	.	.
7	0	.	.	1	100	99.8	.	97.8	82.5	0	.	.	A-7-5	Olive gray, elastic SILT, slightly sandy to sandy, firm to stiff, wet.	0	.	.	.	.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING

▽ - WATER TABLE ENCOUNTERED

GNE - GROUND WATER NOT ENCOUNTERED.

NOTES:

MATERIAL FROM STRATA NO. 1, 2, 3, 4 AND 5 APPEARS SATISFACTORY FOR USE IN AN EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 505. HOWEVER, MATERIAL FROM STRATUM NO. 5 IS LIKELY TO RETAIN EXCESS MOISTURE, AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER-TABLE EXISTING AT THE TIME OF CONSTRUCTION.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Allied Engineering and Testing
5300-A Lee Blvd
Lehigh Acres, FL 33970
PH: 239-334-6833

LEE COUNTY DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

ROADWAY SOIL SURVEY

SHEET NO. 131

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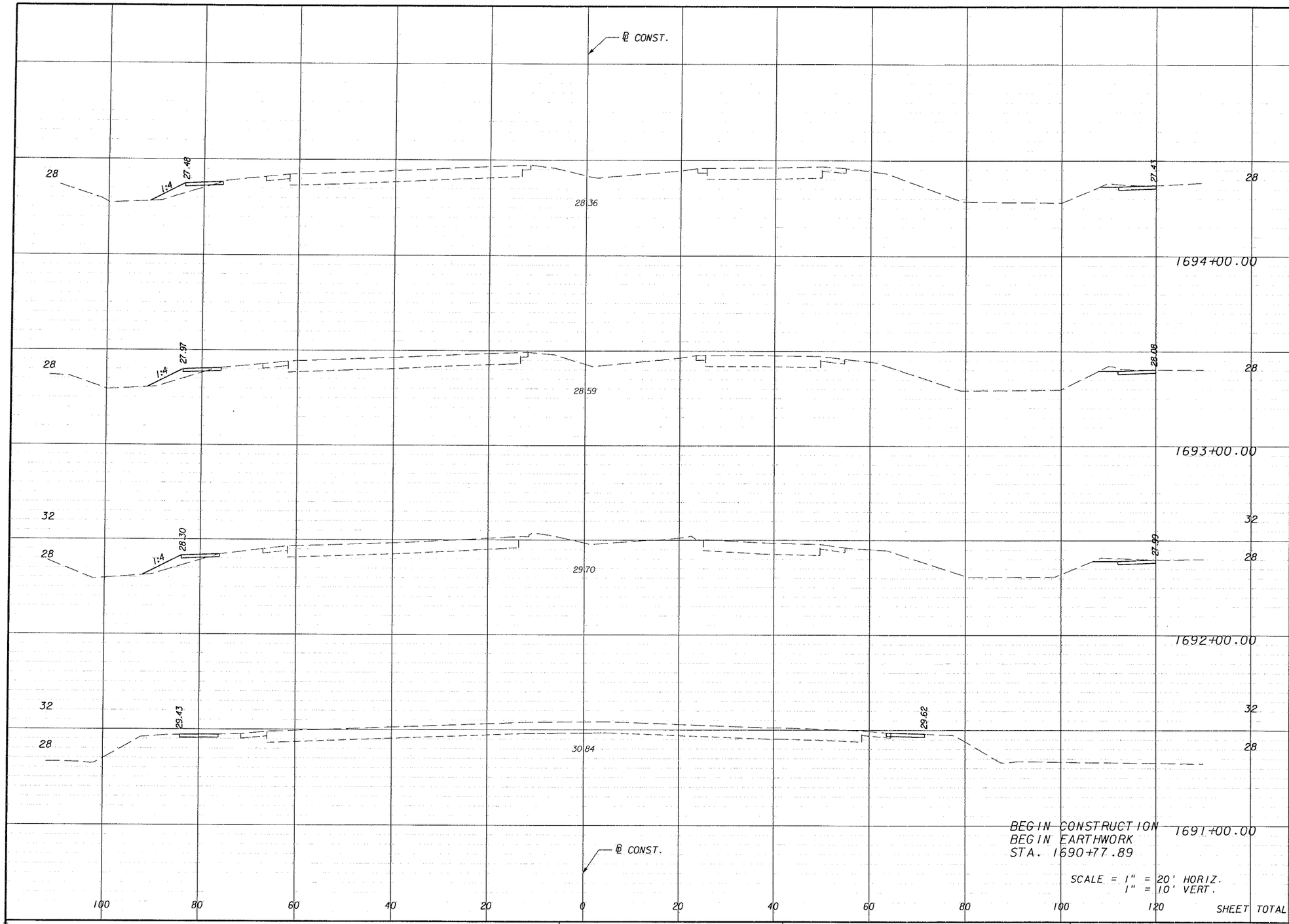

Regular Exc.		Embankment	
A	V	A	V
5.0		6.4	
	20		23
5.6		5.9	
	21		24
5.7		6.8	
	20		13
5.1		0.0	
	2		0
0.0		0.0	
SHEET TOTAL	63		60

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 132

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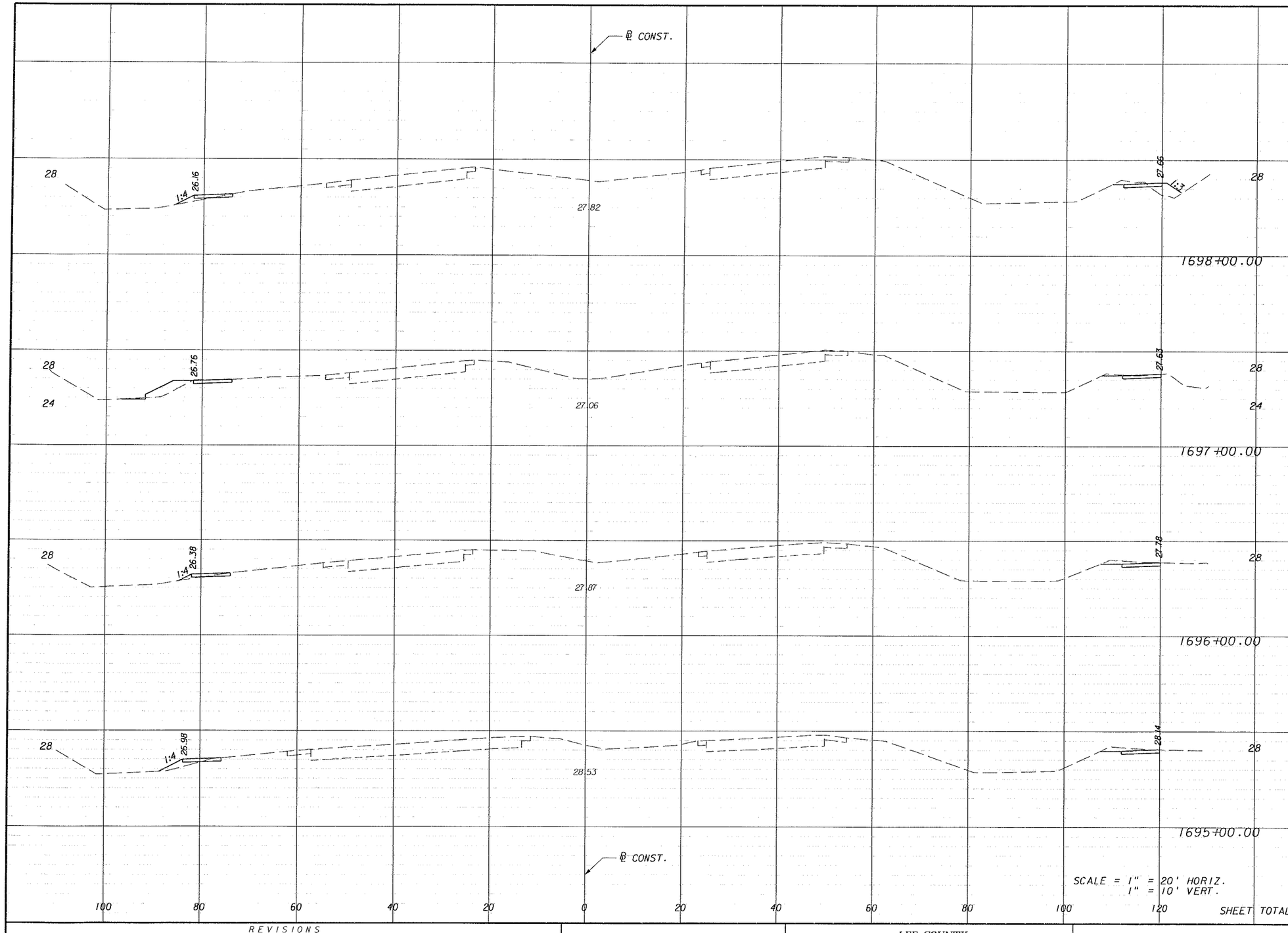

Regular Exc.		Embankment	
A	V	A	V
4.0		7.0	
	19		26
6.4		7.2	
	23		15
6.2		0.8	
	23		7
6.2		3.1	
	21		18
SHEET TOTAL	86		66

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEMANY HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 133

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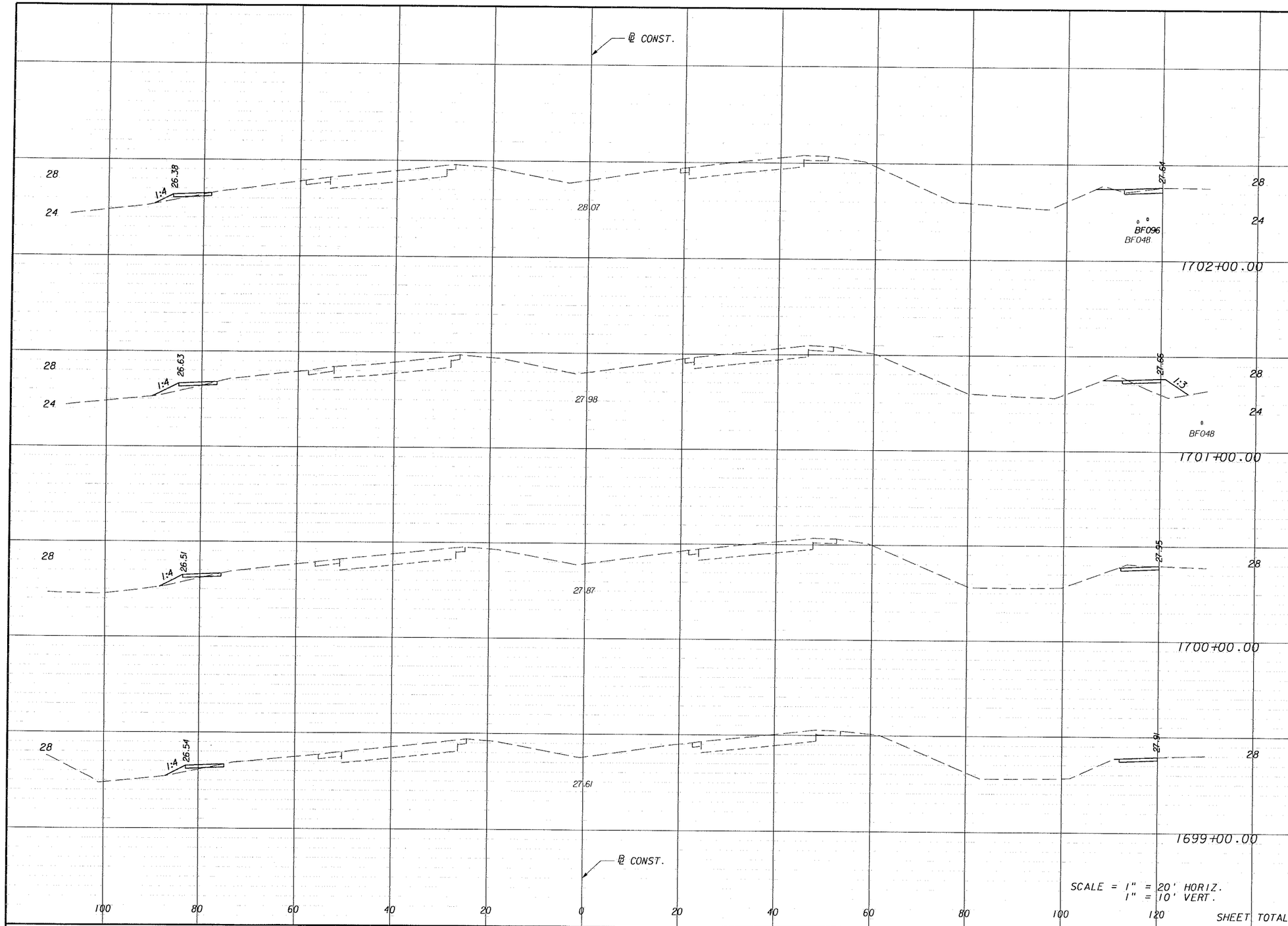

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
3.8		2.0	
	12		30
2.6		14.2	
	13		31
4.4		2.8	
	14		9
3.5		2.2	
	14		17
SHEET TOTAL	53		87

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PETMAN HARTEMAN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 134

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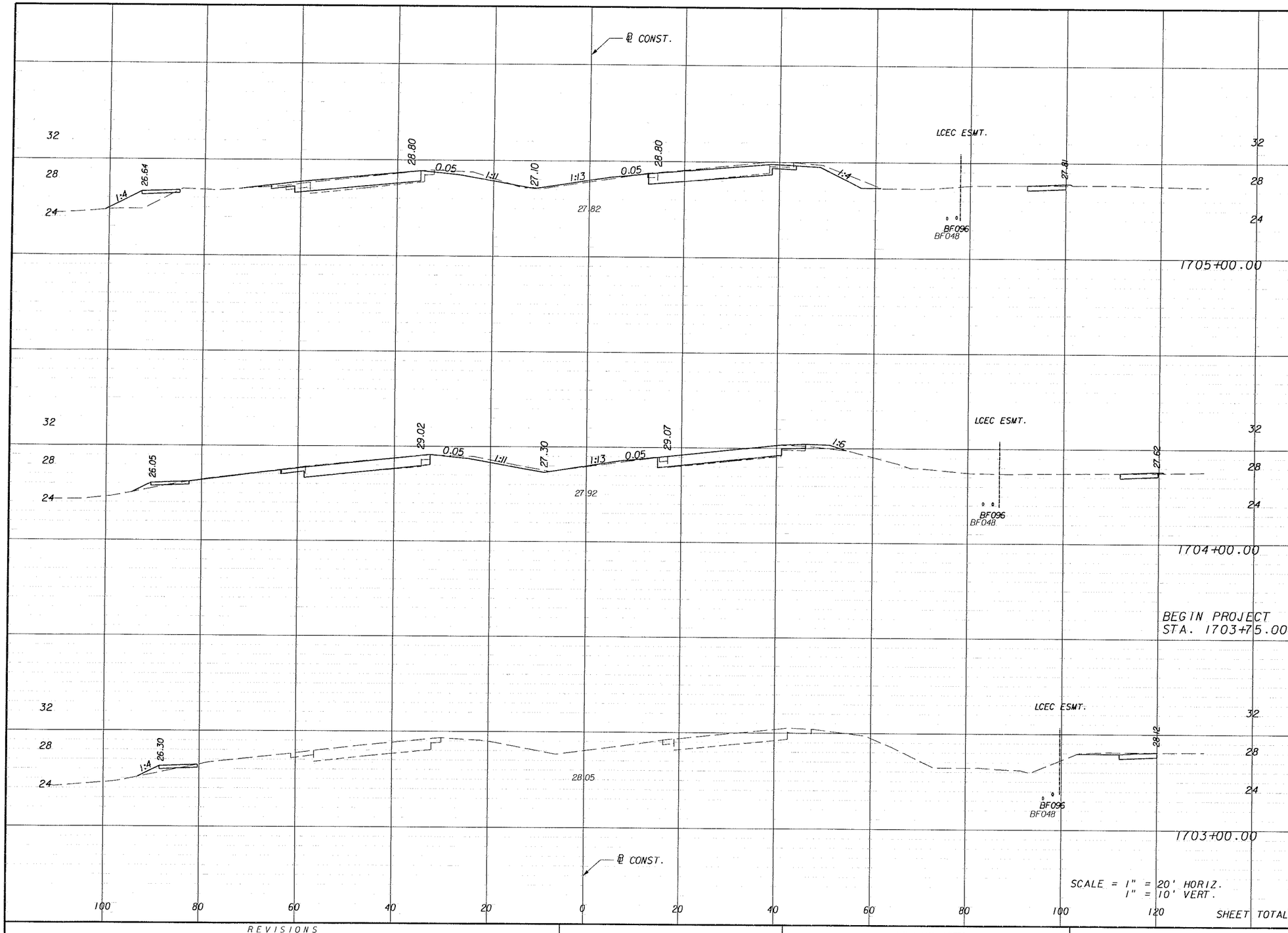

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
78.8		15.6	
	278		39
71.5		5.6	
	144		14
6.5		2.1	
	19		8
SHEET TOTAL	441		61

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 135

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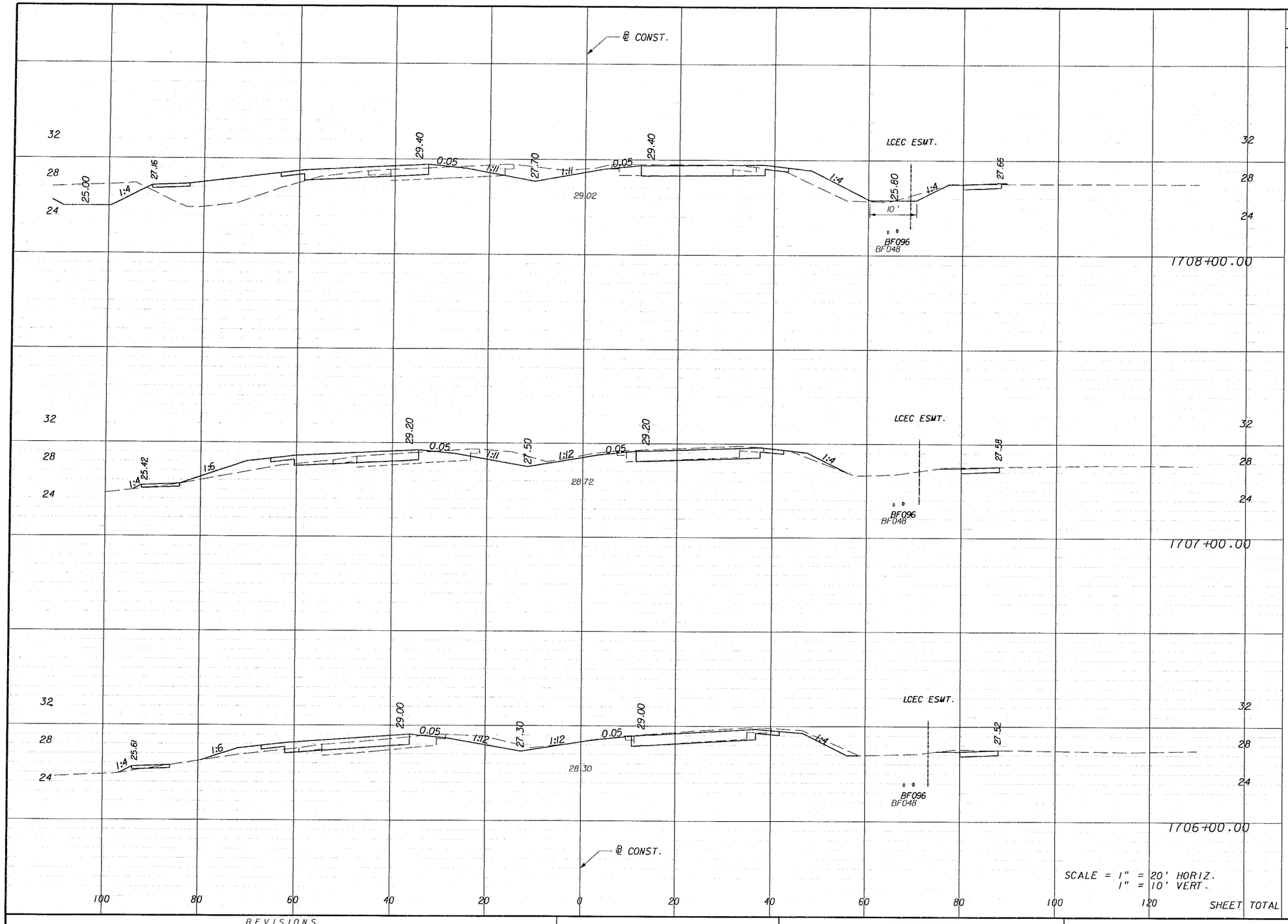

Regular Exc.		Embankment	
A	V	A	V
117.6		80.2	
	362		184
77.8		18.9	
	290		51
78.5		8.7	
	291		45
SHEET TOTAL	943		280

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 136

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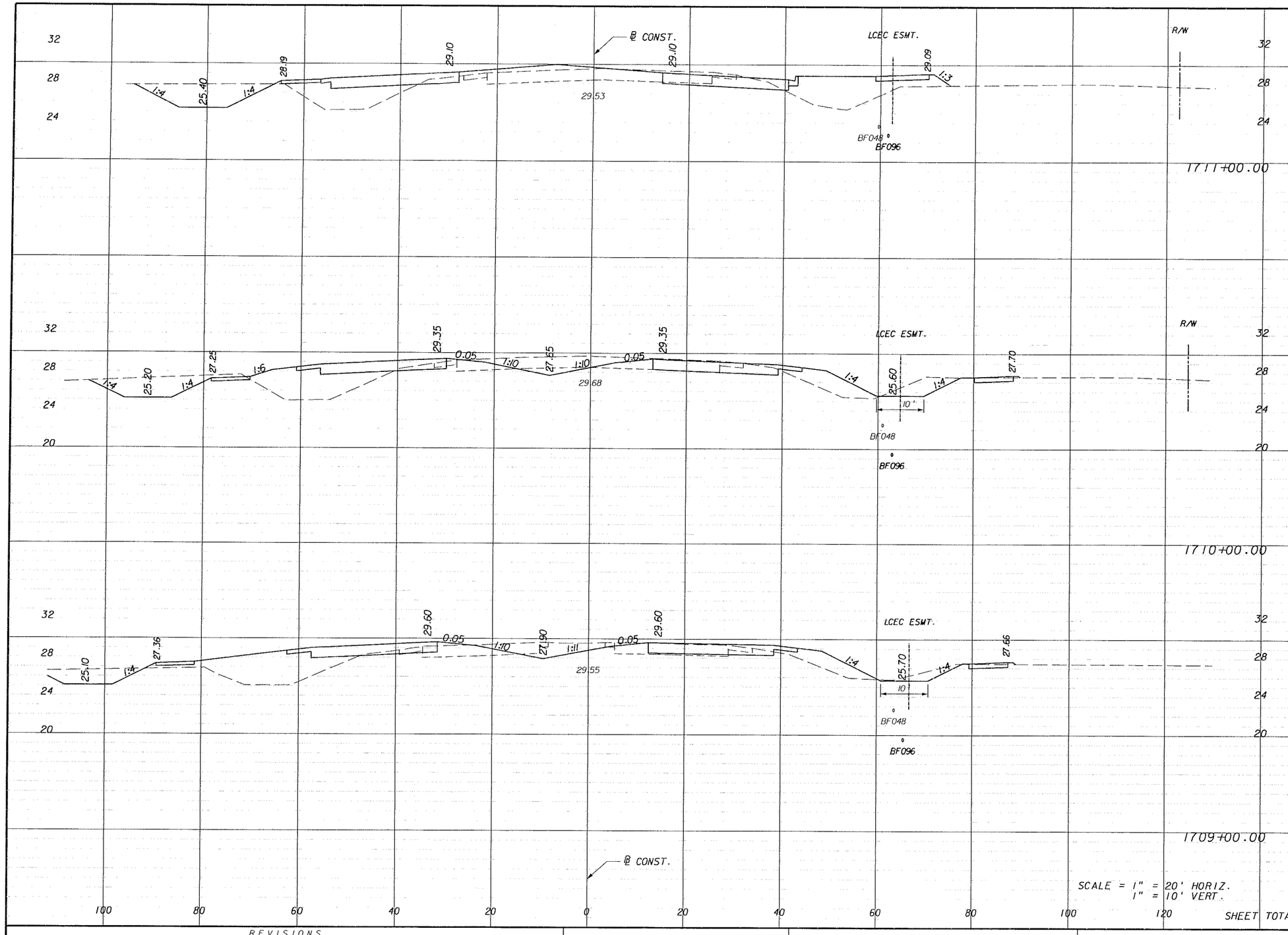

Regular Exc.		Embankment	
A	V	A	V
81.8		119.6	
	398		381
133.0		86.0	
	424		338
95.8		96.7	
	395		328
SHEET TOTAL	1217		1047

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN • GARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 137

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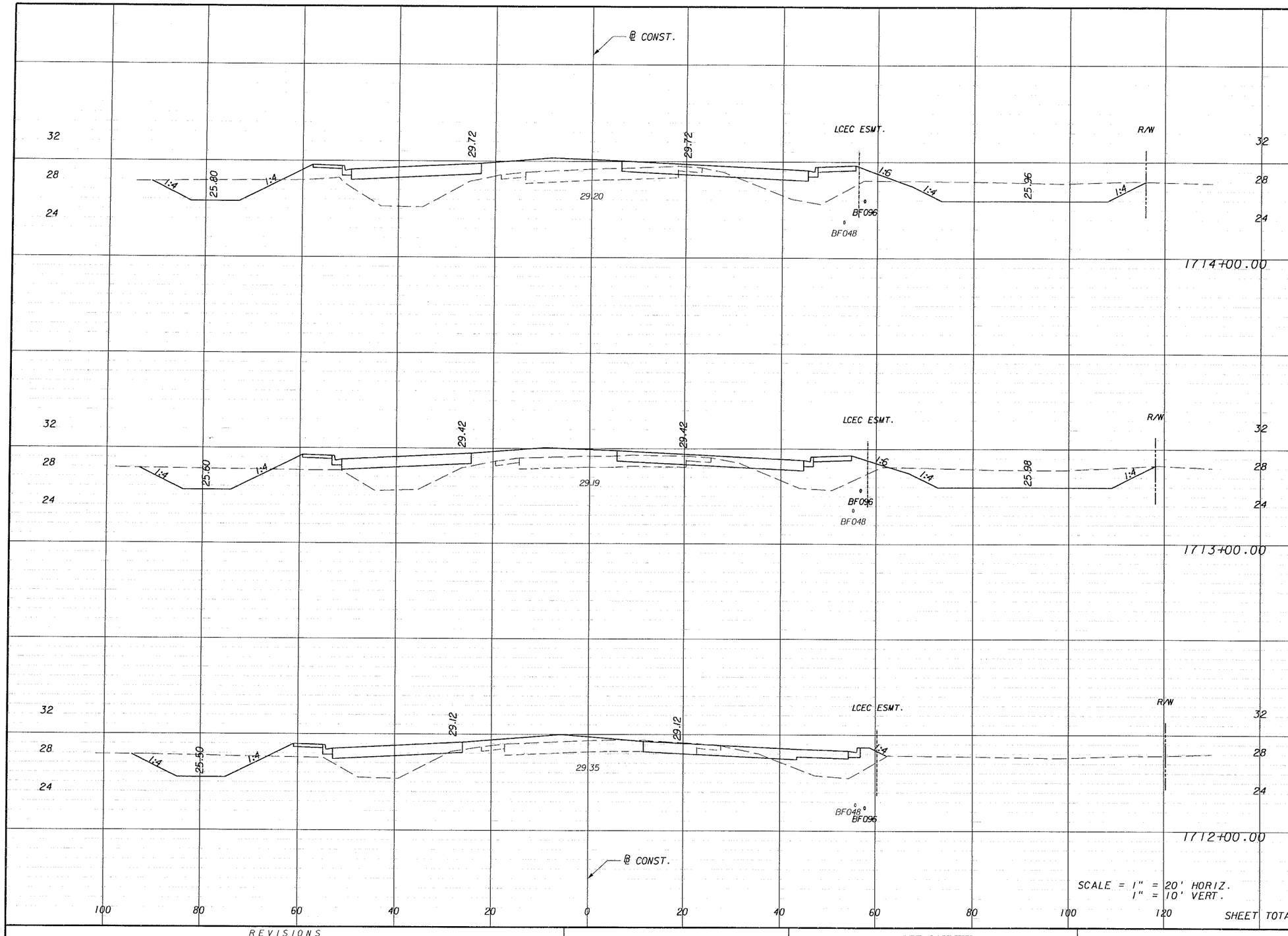

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc.		Embankment	
A	V	A	V
136.9		158.2	
	528		538
148.1		132.4	
	402		432
68.7		100.9	
	279		408
SHEET TOTAL	1209		1378

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, Fl 33907
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(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 138

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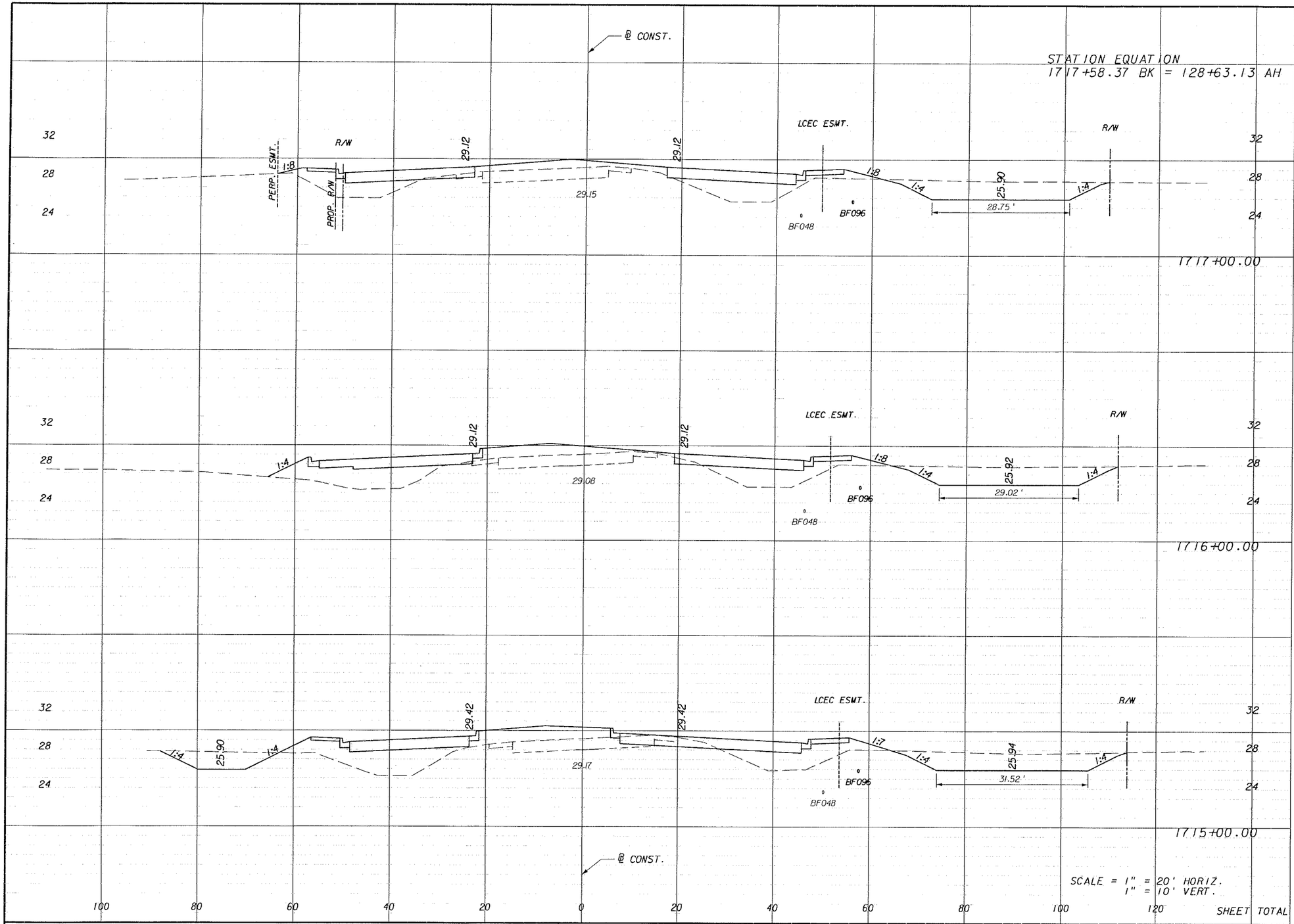

Regular Exc.		Embankment	
A	V	A	V
73.5		107.3	
	274		451
74.3		136.3	
	360		529
120.3		149.1	
	476		569
	1110		1549

SHEET TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PALMER HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 139

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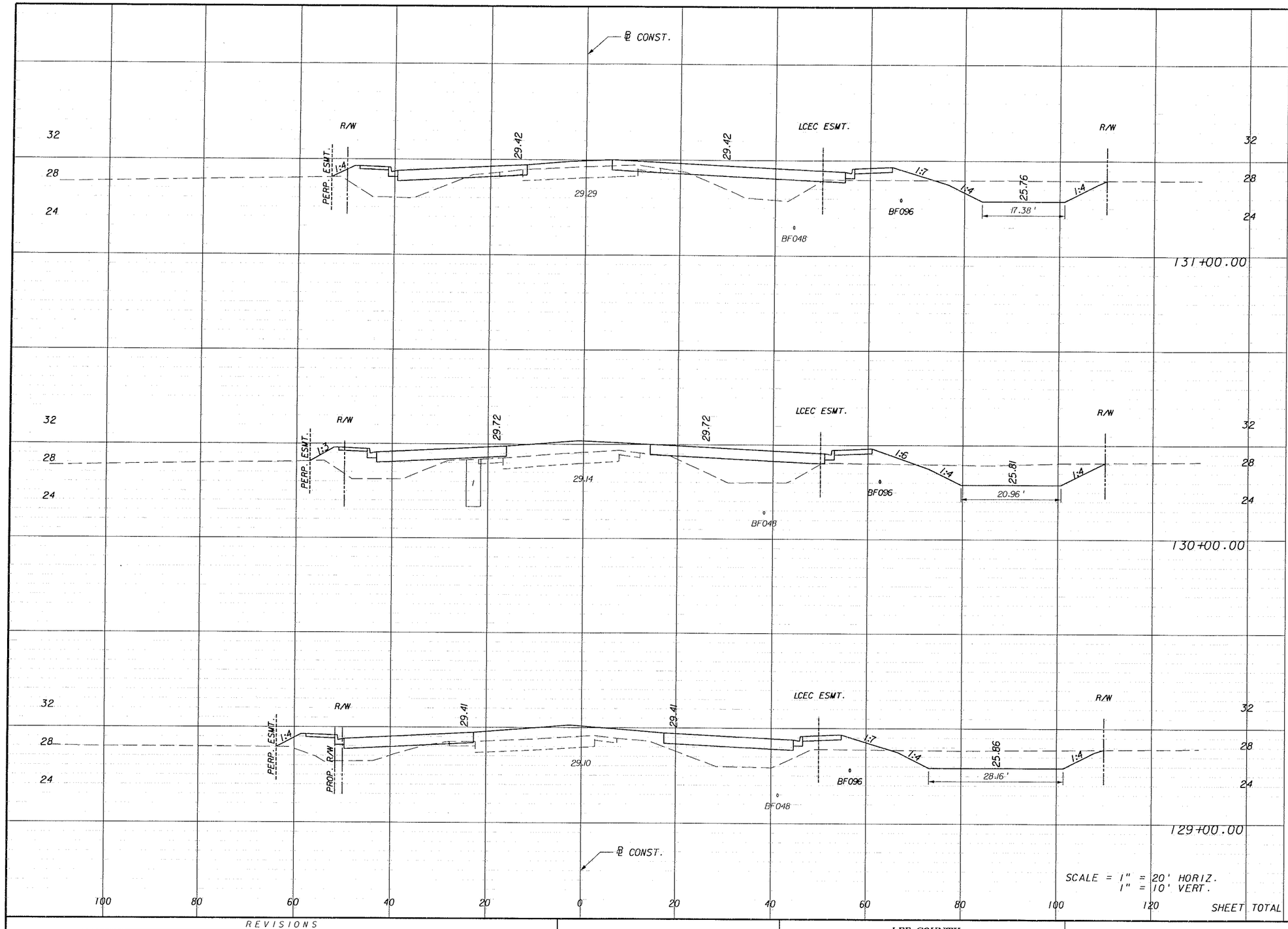

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc.		Embankment	
A	V	A	V
70.8		106.0	
	252		478
65.4		152.1	
	248		546
68.3		142.9	
	250		441
SHEET TOTAL	750		1465

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 140

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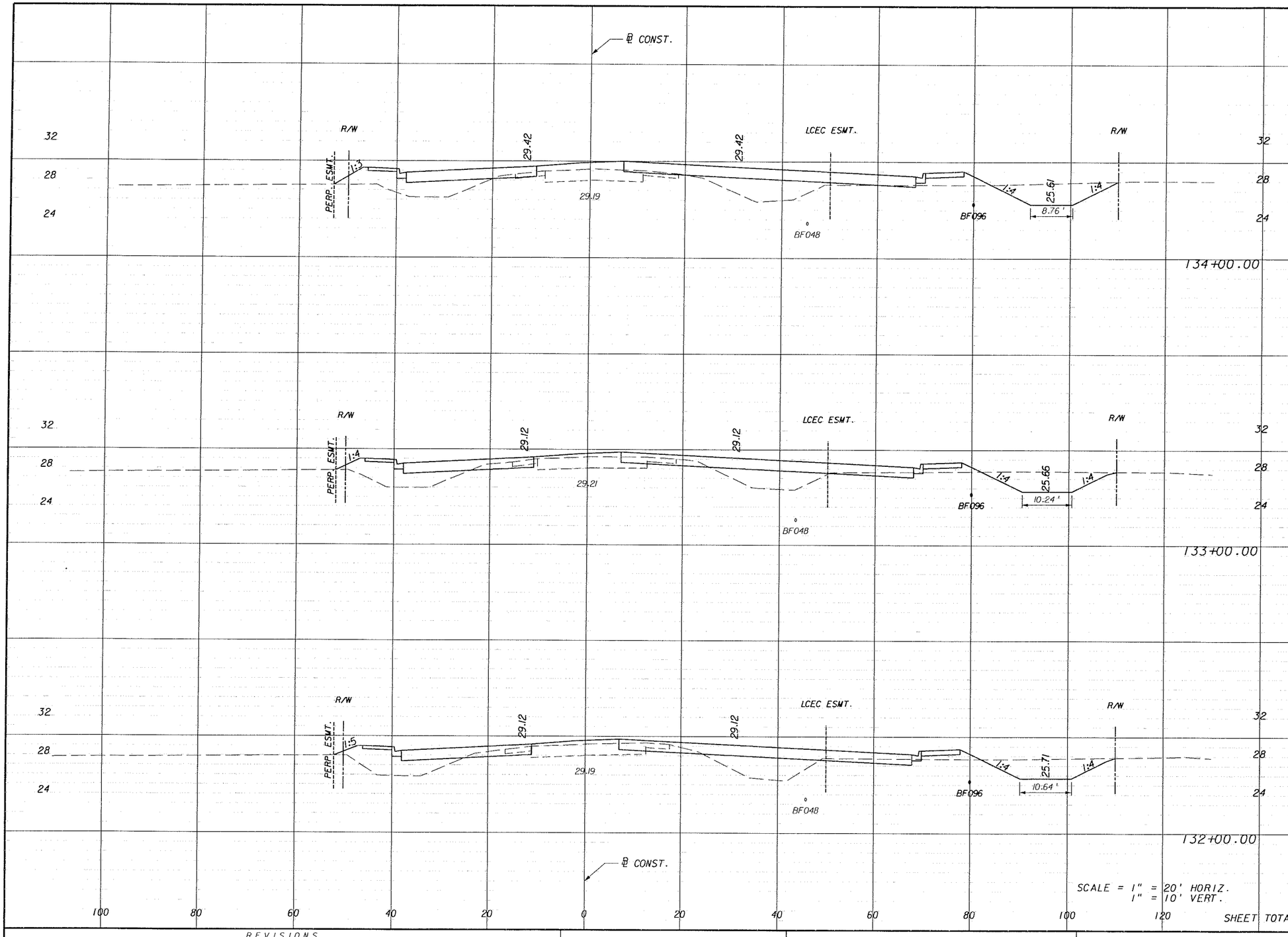

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
44.1		106.0	
	200		347
64.0		81.5	
	241		311
66.0		86.4	
	253		356
SHEET TOTAL	694		1014

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO.
141

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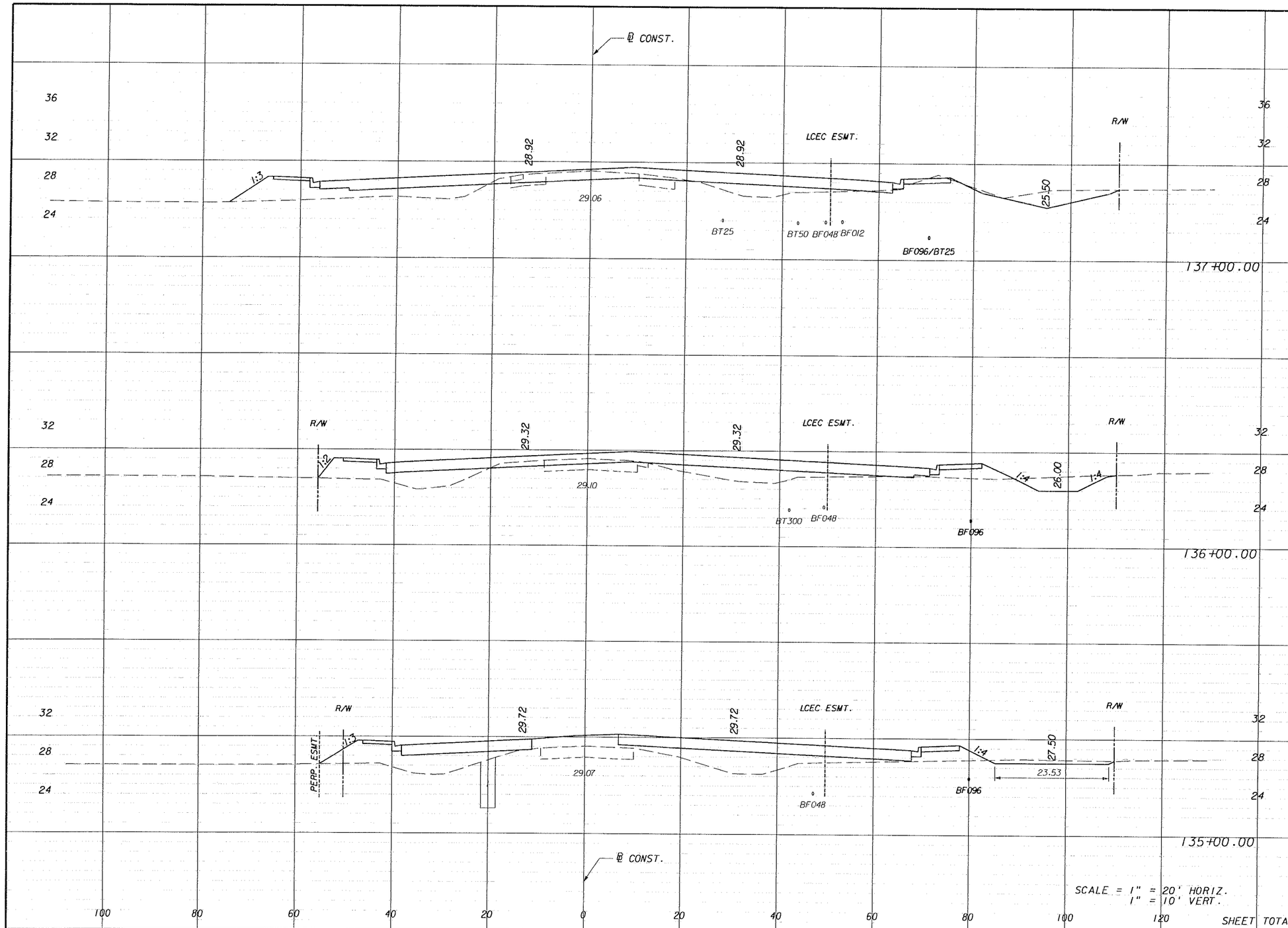

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
54.9		85.4	
	165		347
34.4		101.7	
	80		480
8.8		157.6	
	98		488
SHEET TOTAL	343		1315

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANY HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 142

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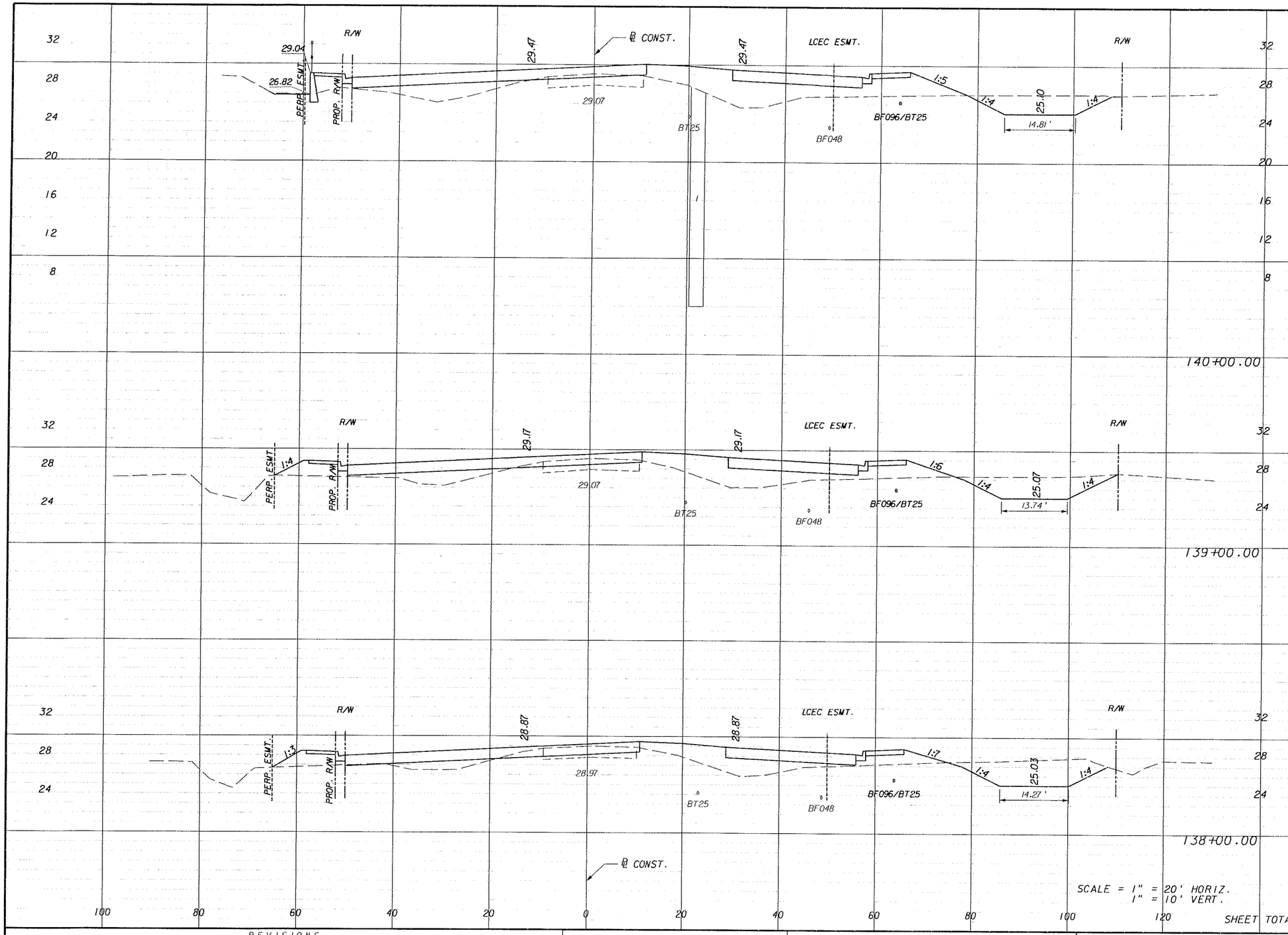

	Regular Exc.		Embankment	
	A	V	A	V
140+00.00	50.9	216	160.6	536
139+00.00	65.5	277	128.6	417
138+00.00	84.1	257	96.4	337
SHEET TOTAL		750		1290

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARKENTHAL & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 143

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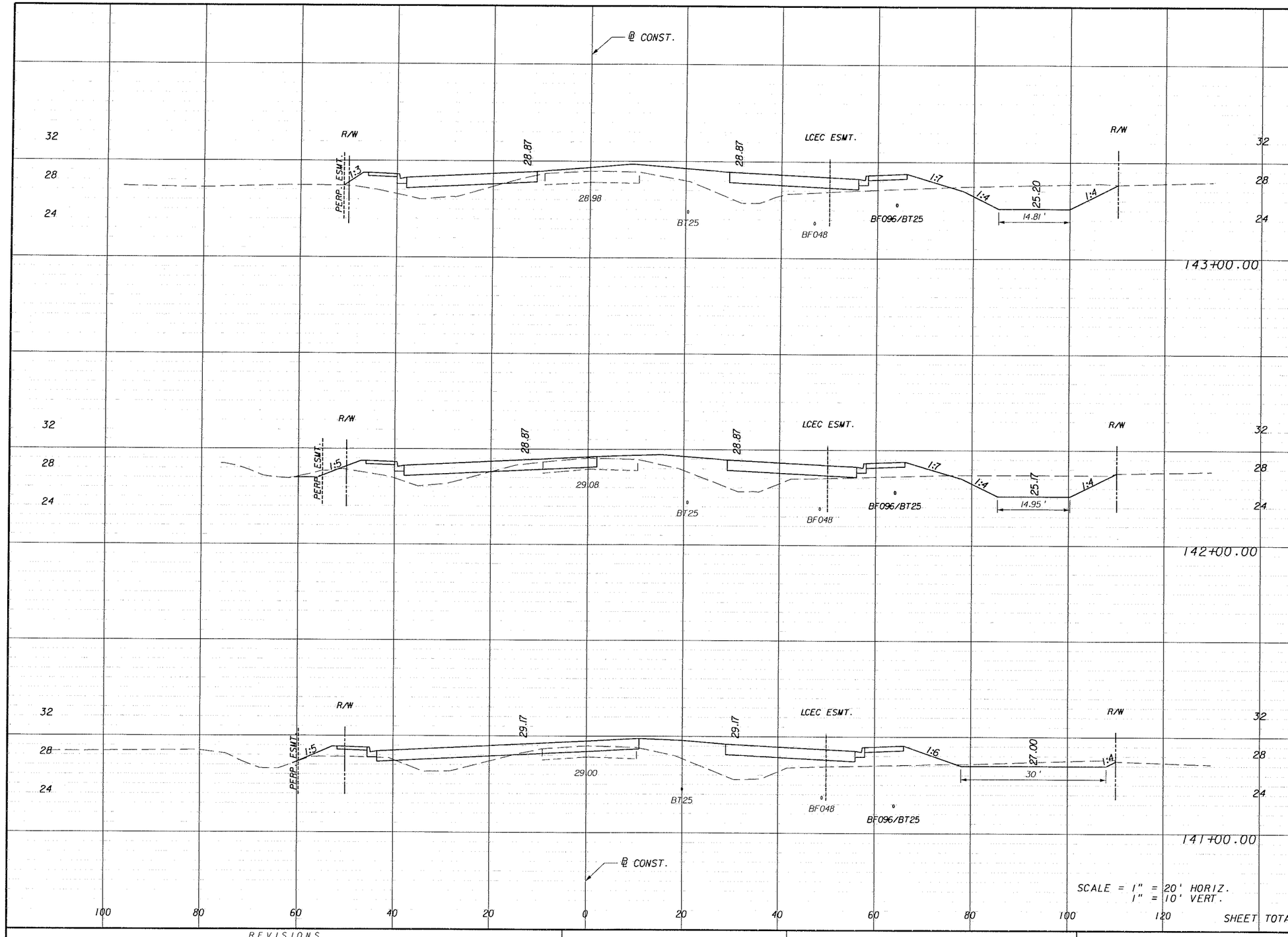

Regular Exc.		Embankment	
A	V	A	V
62.4		114.1	
	247		396
71.2		99.7	
	178		418
25.0		126.3	
	141		531
SHEET TOTAL	566		1345

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIZMANT HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 144

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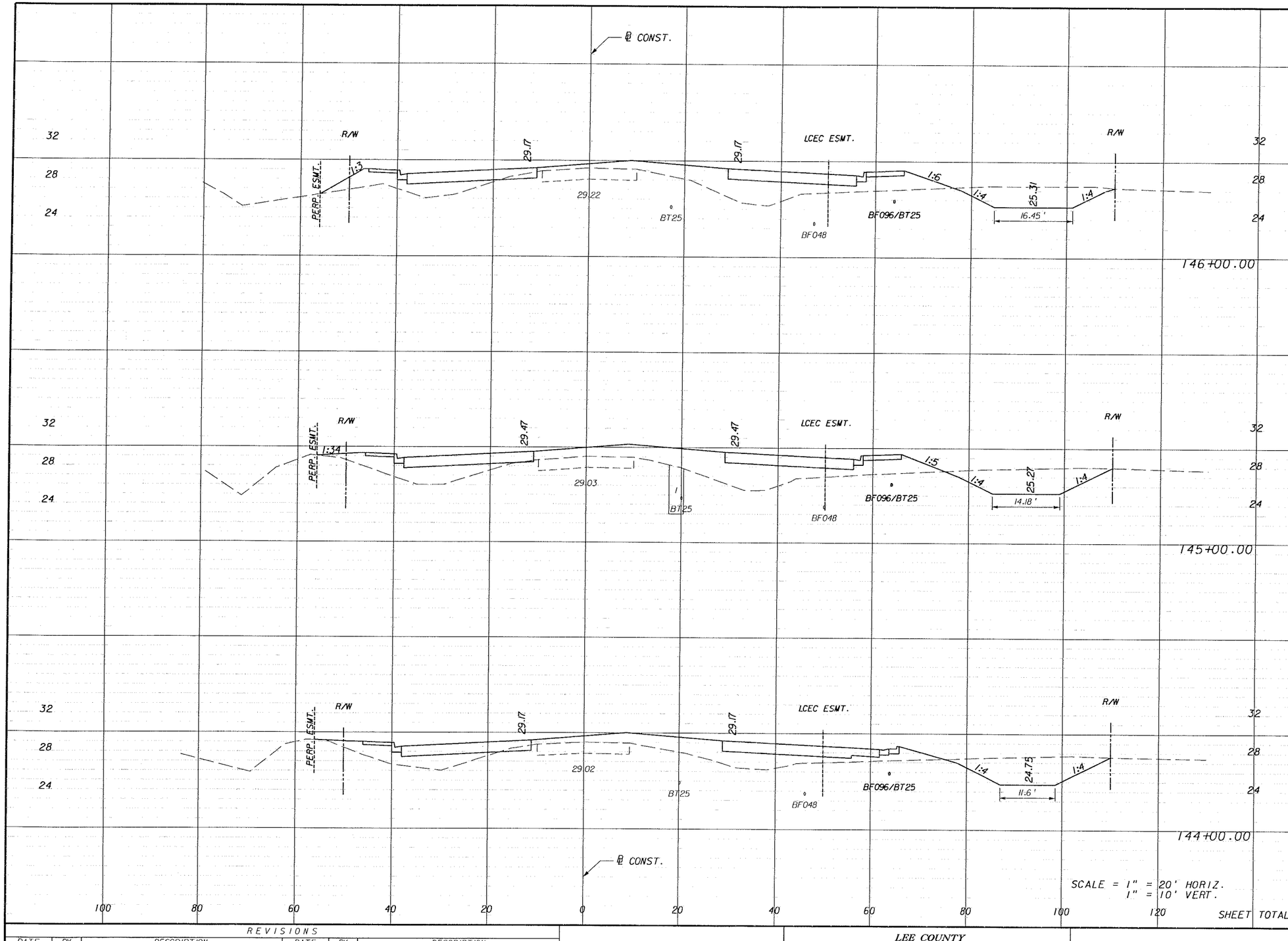

	Regular Exc.		Embankment	
	A	V	A	V
146+00.00	56.8	224	148.9	607
145+00.00	64.4	245	179.0	564
144+00.00	67.8	241	125.5	444
SHEET TOTAL		710		1615

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 145

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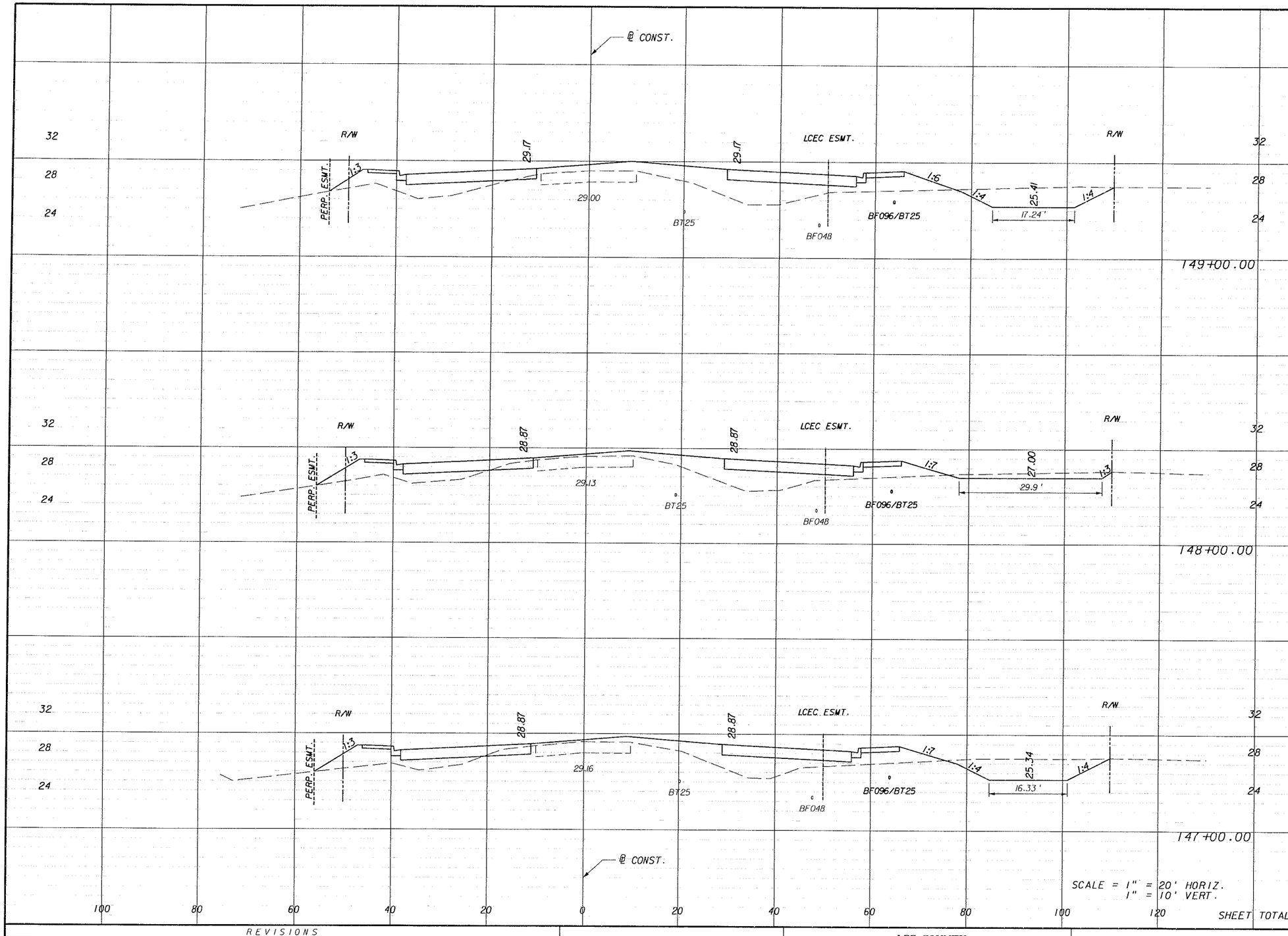

	Regular Exc.		Embankment	
	A	V	A	V
	52.0		155.4	
		136		513
	21.5		121.6	
		152		452
	60.4		122.2	
SHEET TOTAL		217		502
		505		1467

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 146

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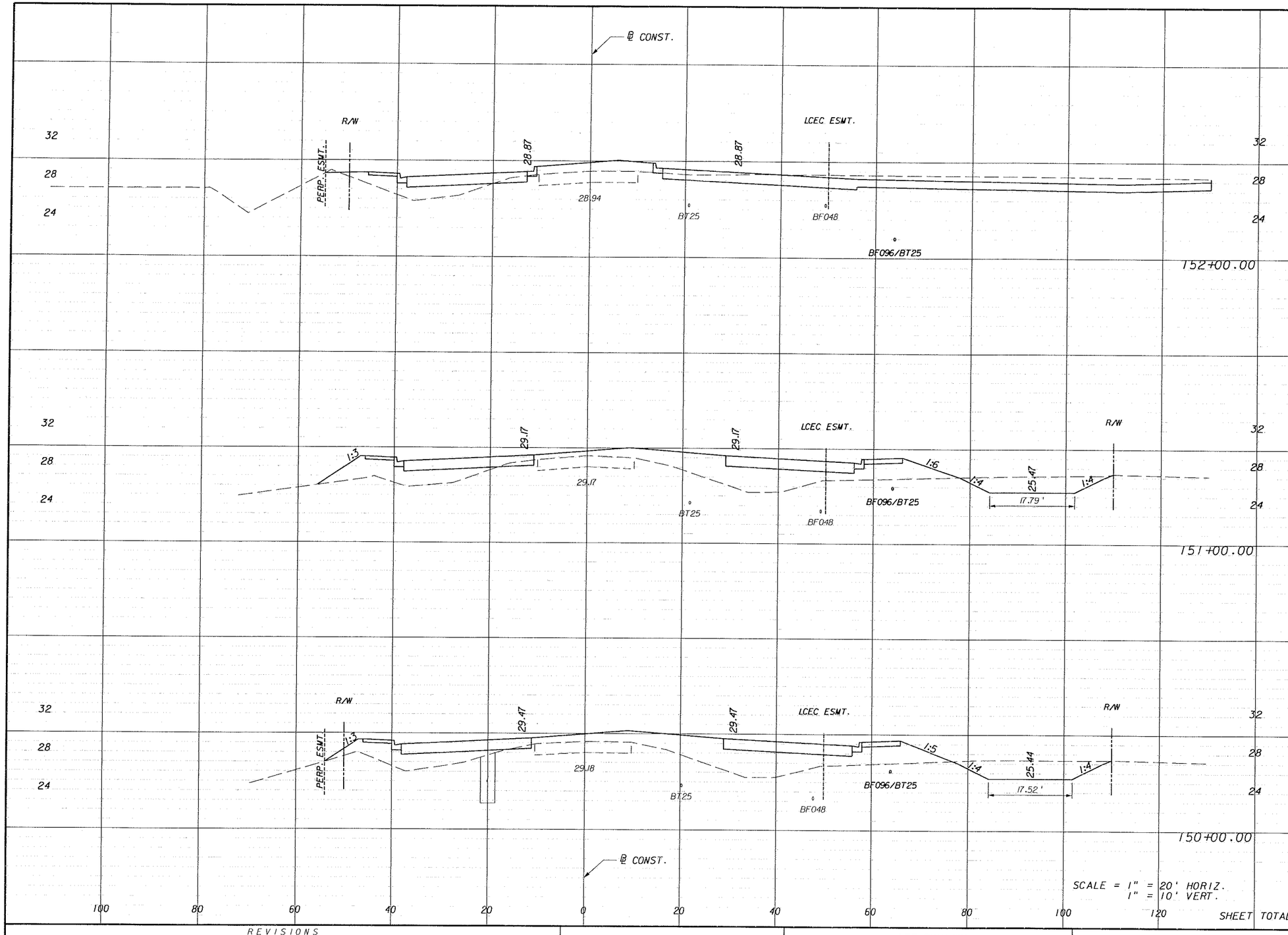

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
141.3		55.3	
	343		431
43.9		177.4	
	173		672
49.2		185.3	
	188		631
SHEET TOTAL	704		1734

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
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(239) 936-6466

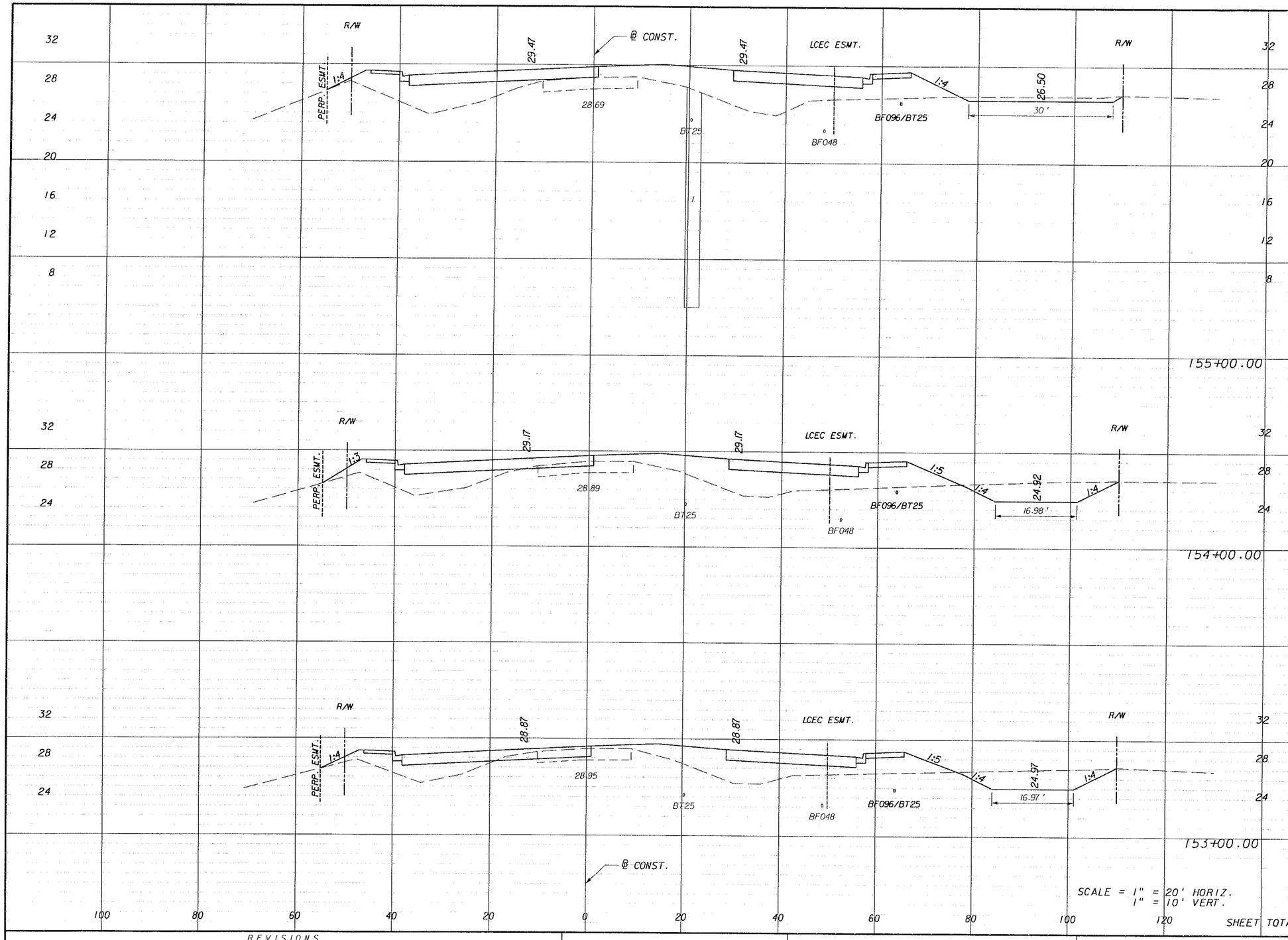
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 147

09/13/2005 07:37:42 AM P:\99012.201\cadd\roadway\rdxsrd01.shg



	Regular Exc.		Embankment	
	A	V	A	V
	13.0		220.6	
		124		760
	53.9		189.8	
		214		619
	61.9		144.4	
		376		370
SHEET TOTAL		714		1749

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PUTNEY BARTHOLOMEW & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 148

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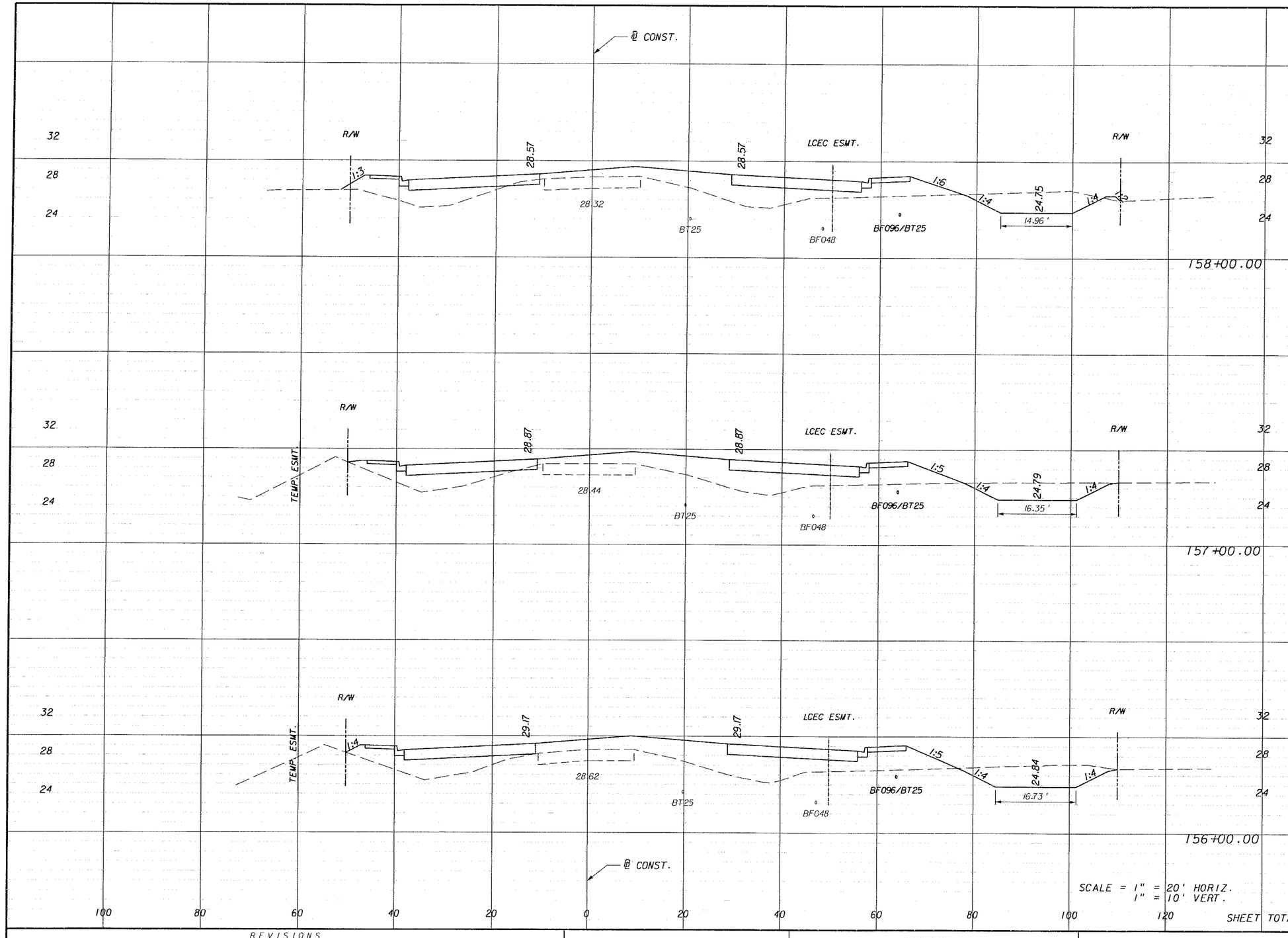

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
158+00.00	49.1		157.2	
		171		606
157+00.00	43.3		170.2	
		181		681
156+00.00	54.5		197.8	
		125		775
SHEET TOTAL		477		2062

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FITZMAN & HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO.
149

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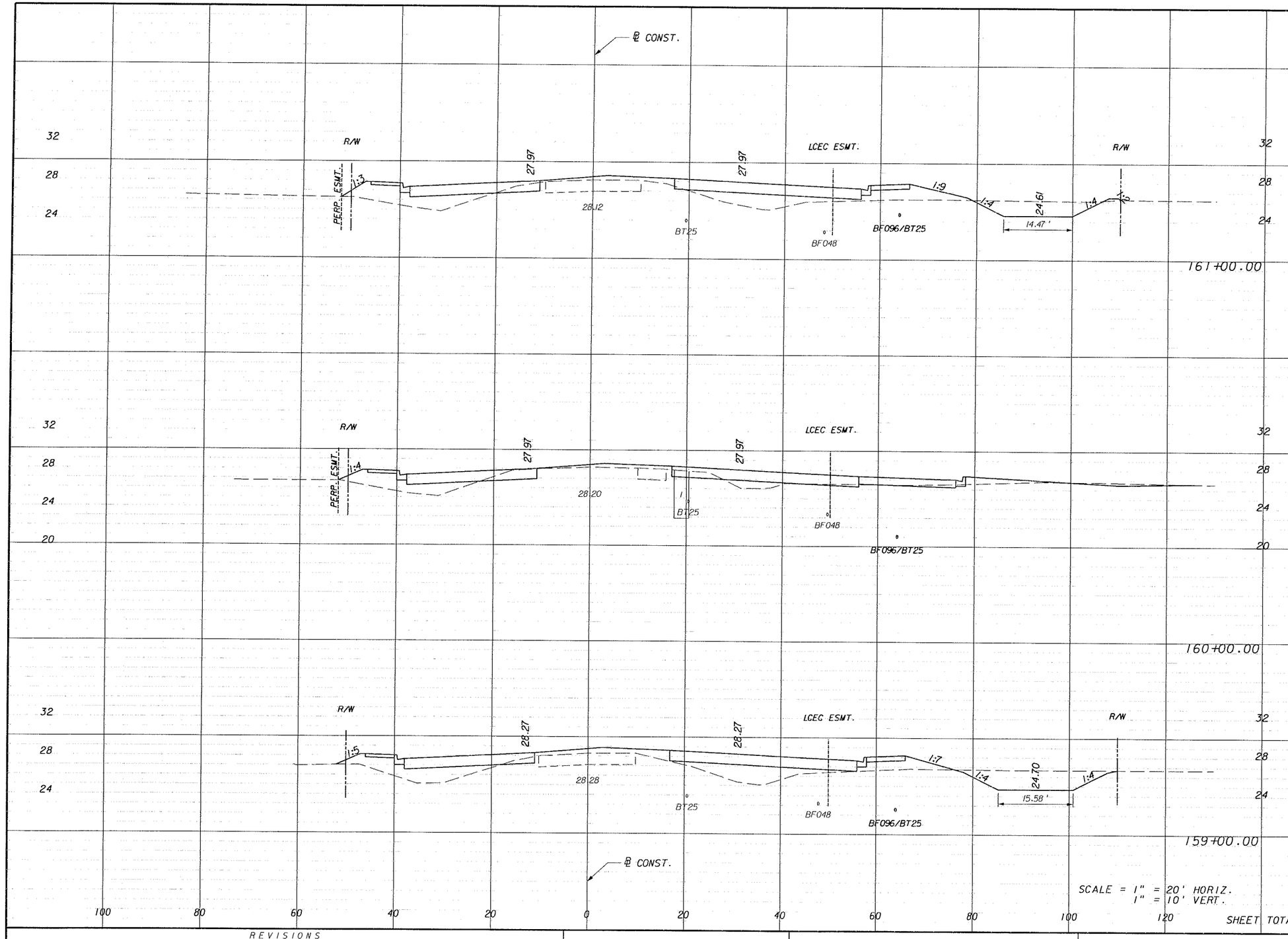

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc.		Embankment	
A	V	A	V
38.0		98.4	
	111		280
22.0		52.8	
	135		287
50.8		102.4	
	185		481
SHEET TOTAL	431		1048

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY HANEMANN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 150

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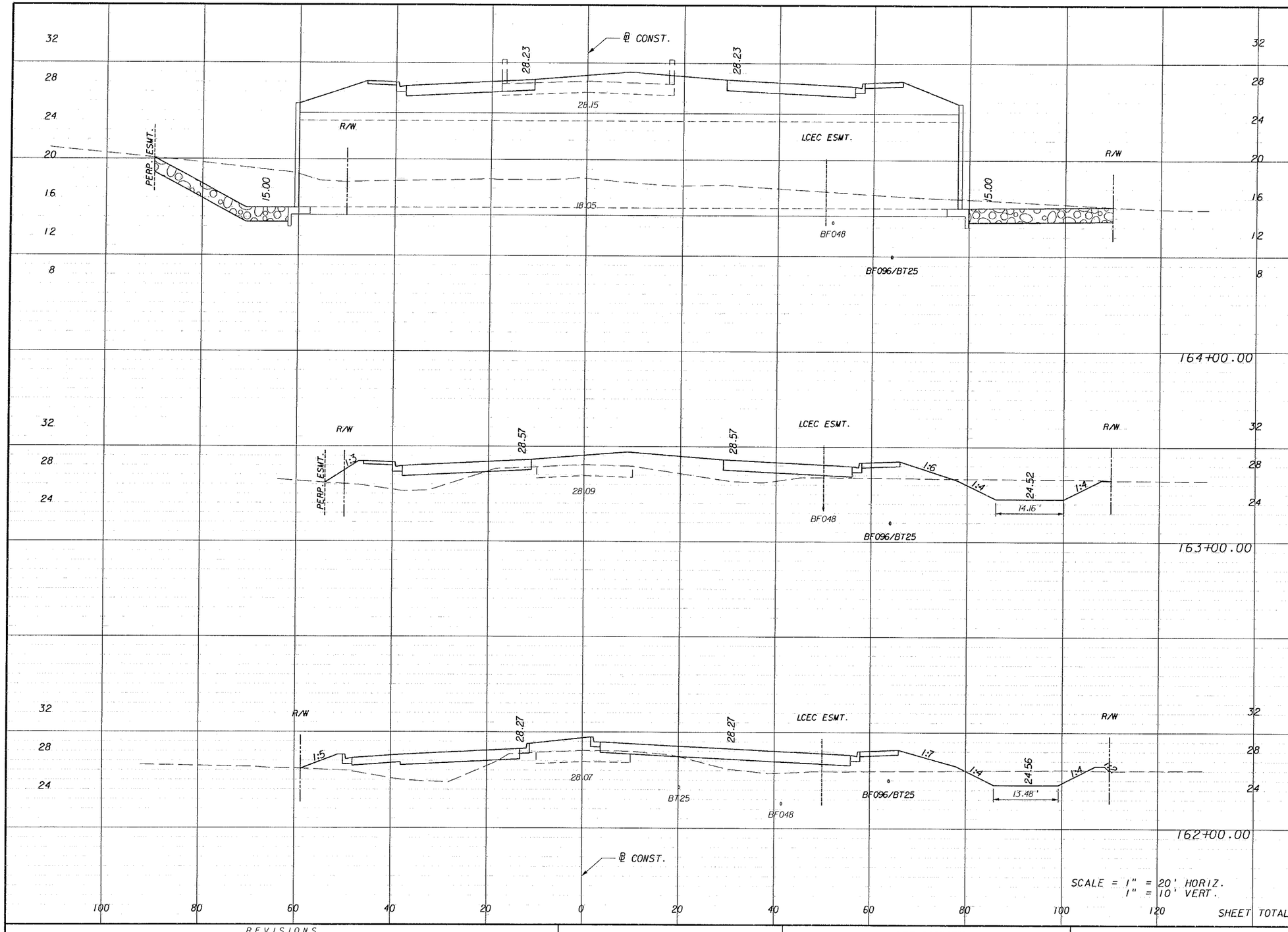

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
97.7		373.4	
	273		954
49.9		142.1	
	157		506
34.8		131.1	
	135		425
SHEET TOTAL	565		1885

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 151

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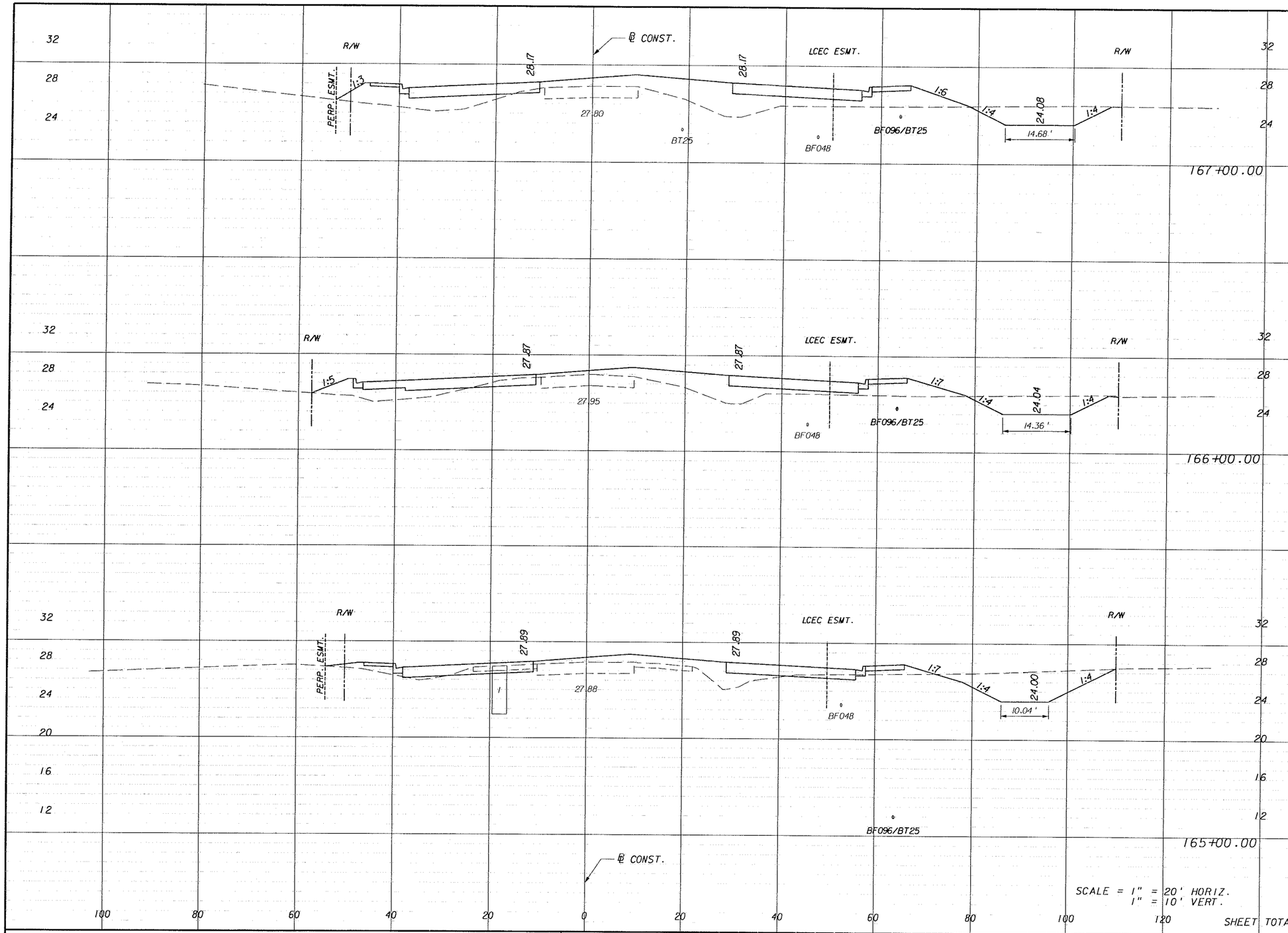

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
43.9		167.5	
	174		524
49.9		115.3	
	255		319
87.7		56.9	
	343		796
SHEET TOTAL	772		1639

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 152

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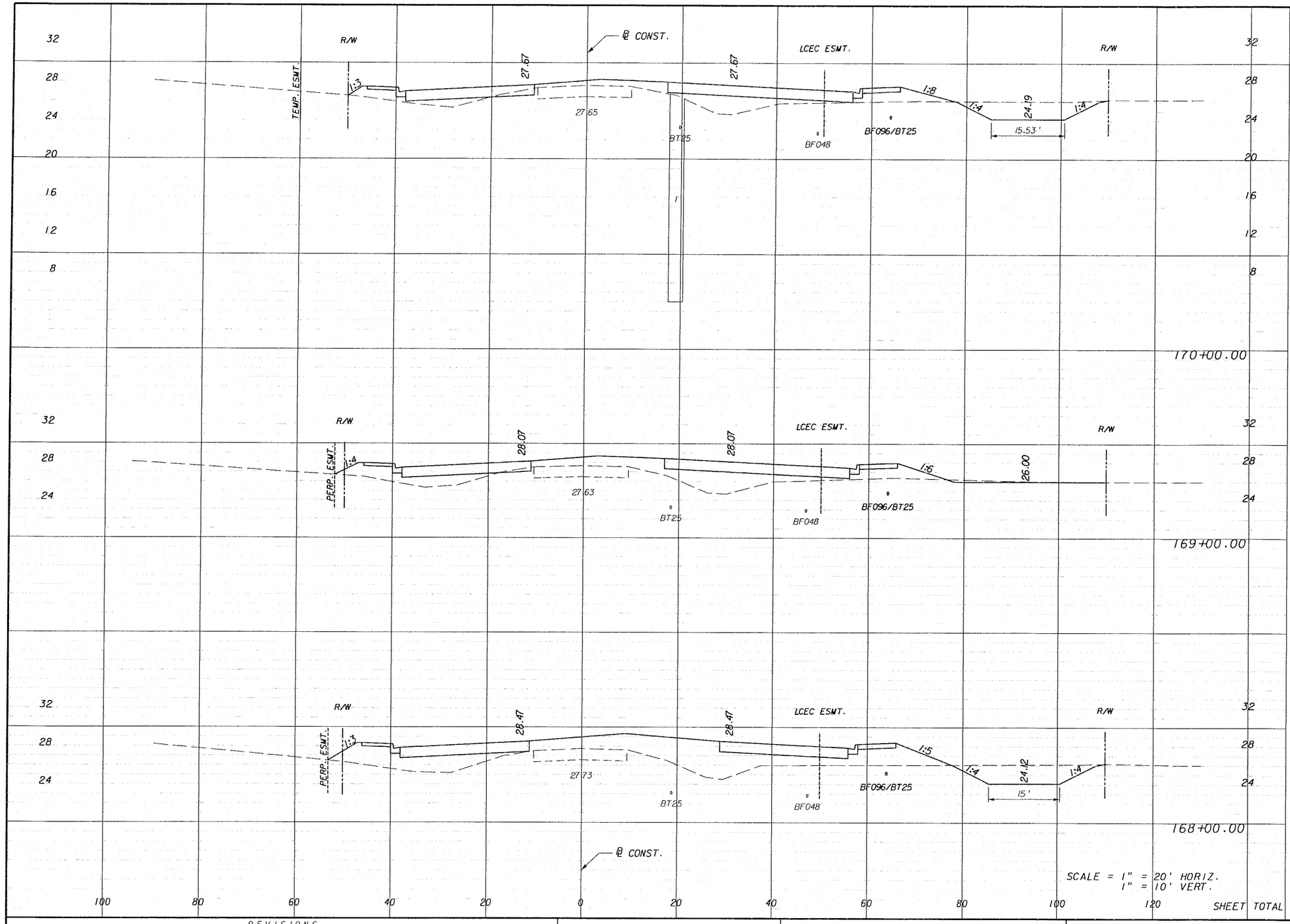

	Regular Exc.		Embankment	
	A	V	A	V
	46.3		85.7	
		93		388
	4.2		123.8	
		92		604
	45.6		202.5	
SHEET TOTAL		166		685
		351		1677

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 153

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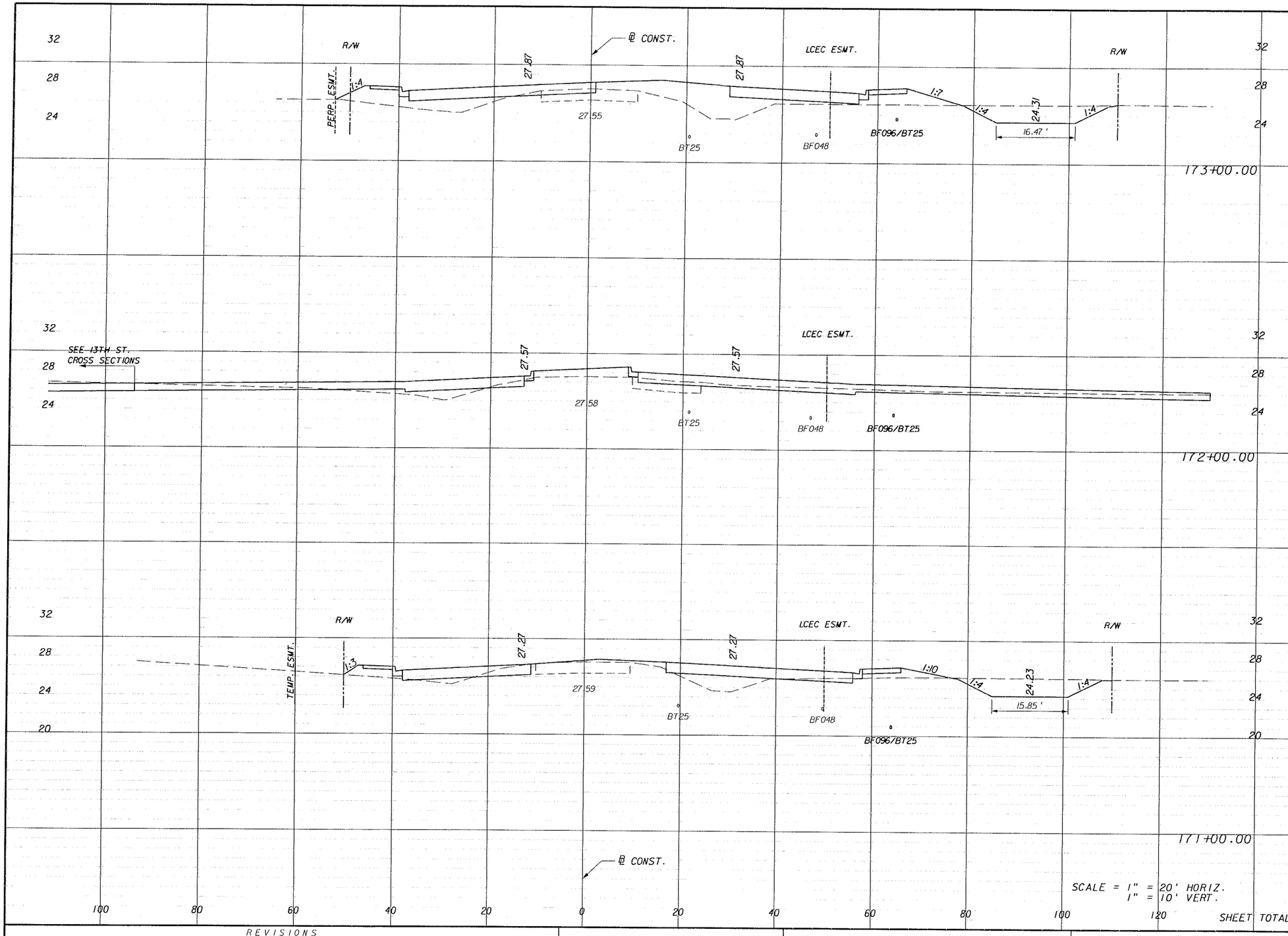

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
48.7		129.5	
	213		295
66.3		29.7	
	228		142
56.7		47.2	
	191		246
SHEET TOTAL	632		683

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 154

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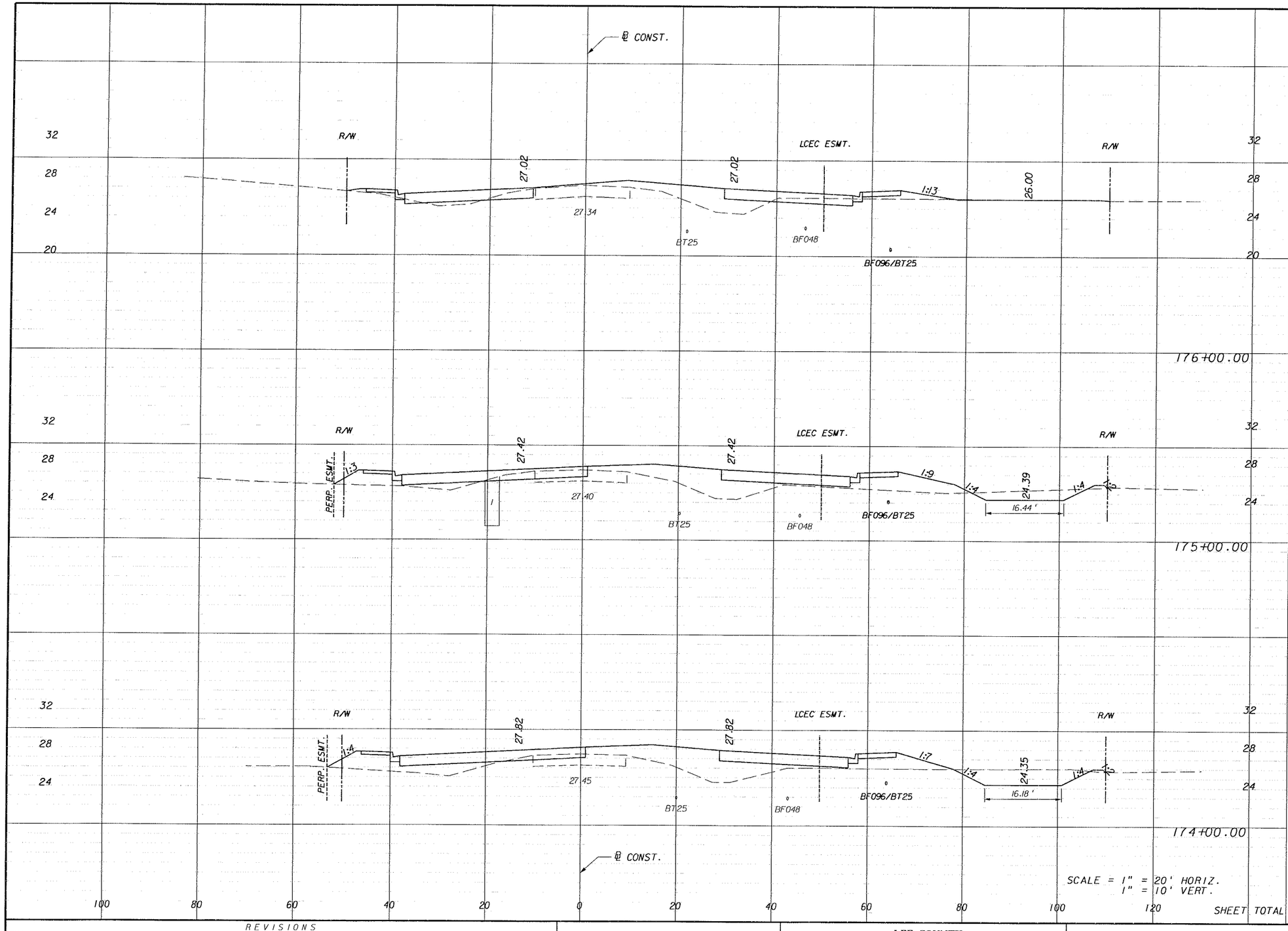

Regular Exc.		Embankment	
A	V	A	V
18.3		57.4	
	97		316
34.3		113.2	
	144		452
43.6		130.7	
	171		482
	412		1250

SHEET TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 155

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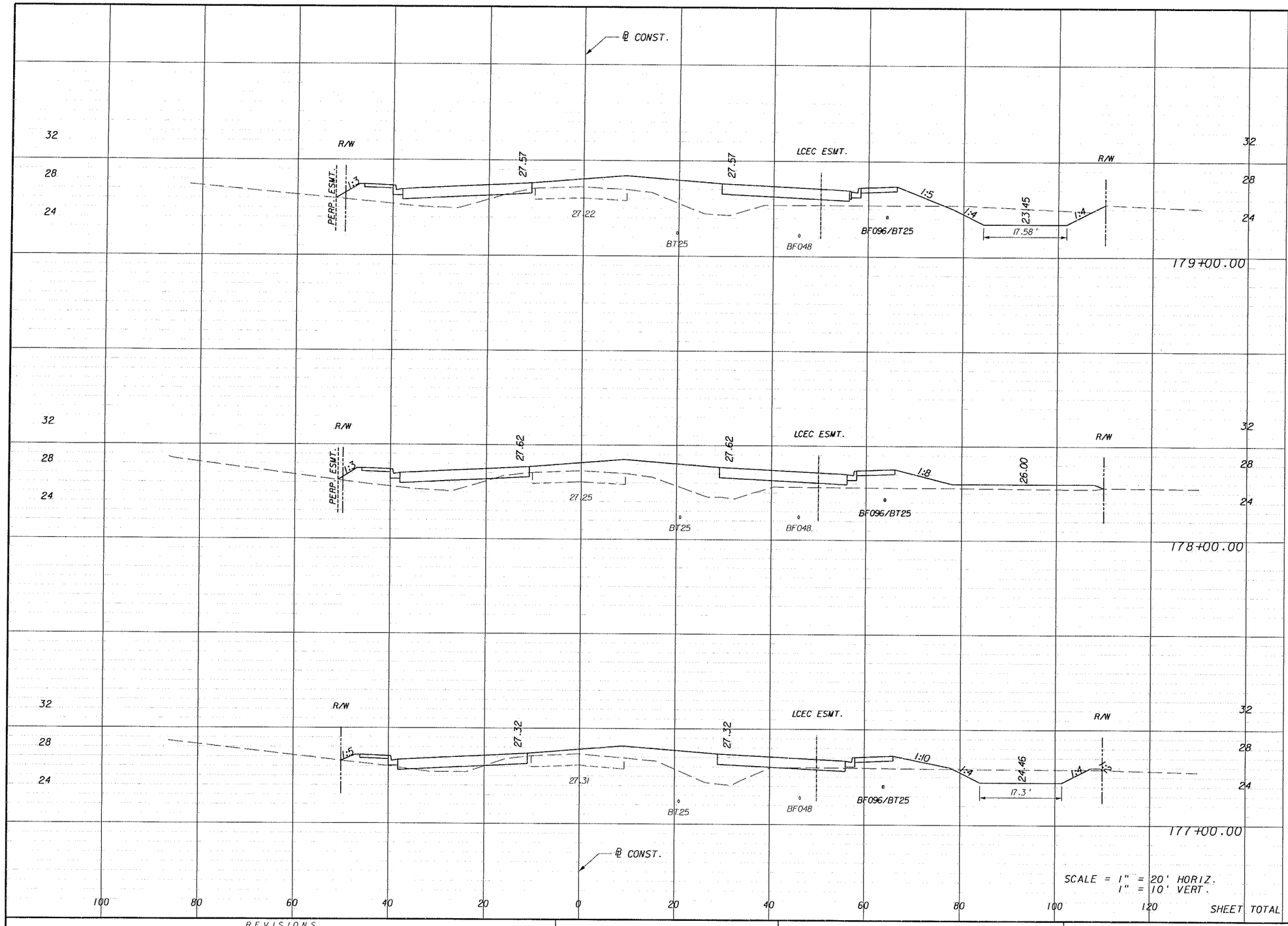

Regular Exc.		Embankment	
A	V	A	V
42.1		148.2	
	82		572
2.1		160.7	
	76		470
39.1		93.0	
	106		278
SHEET TOTAL	264		1320

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN, HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 156

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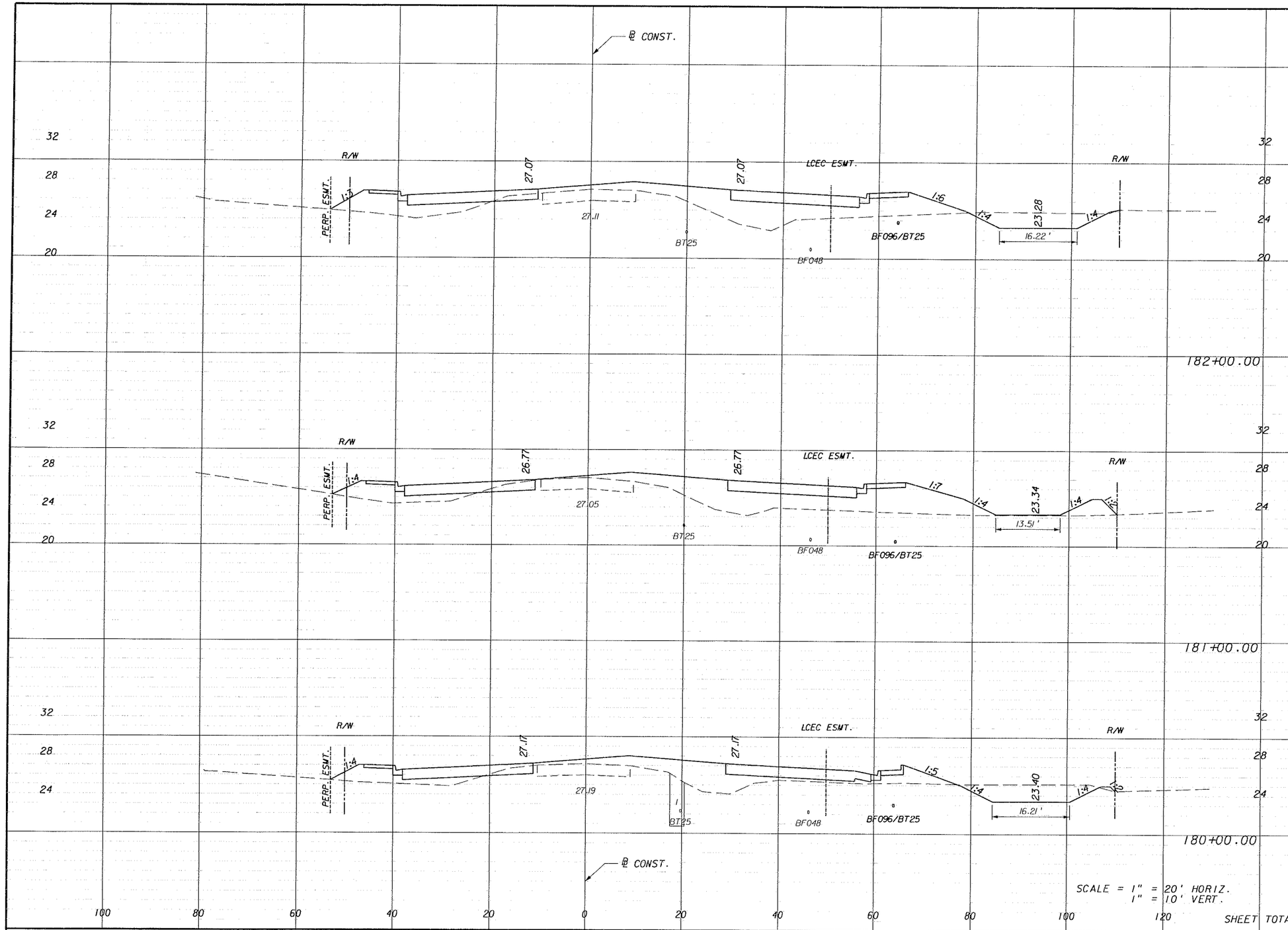

Regular Exc.		Embankment	
A	V	A	V
40.4		171.9	
	89		675
7.5		192.5	
	100		563
46.4		111.4	
	164		481
	353		1719

SHEET TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNANT HARTMUTH & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 157

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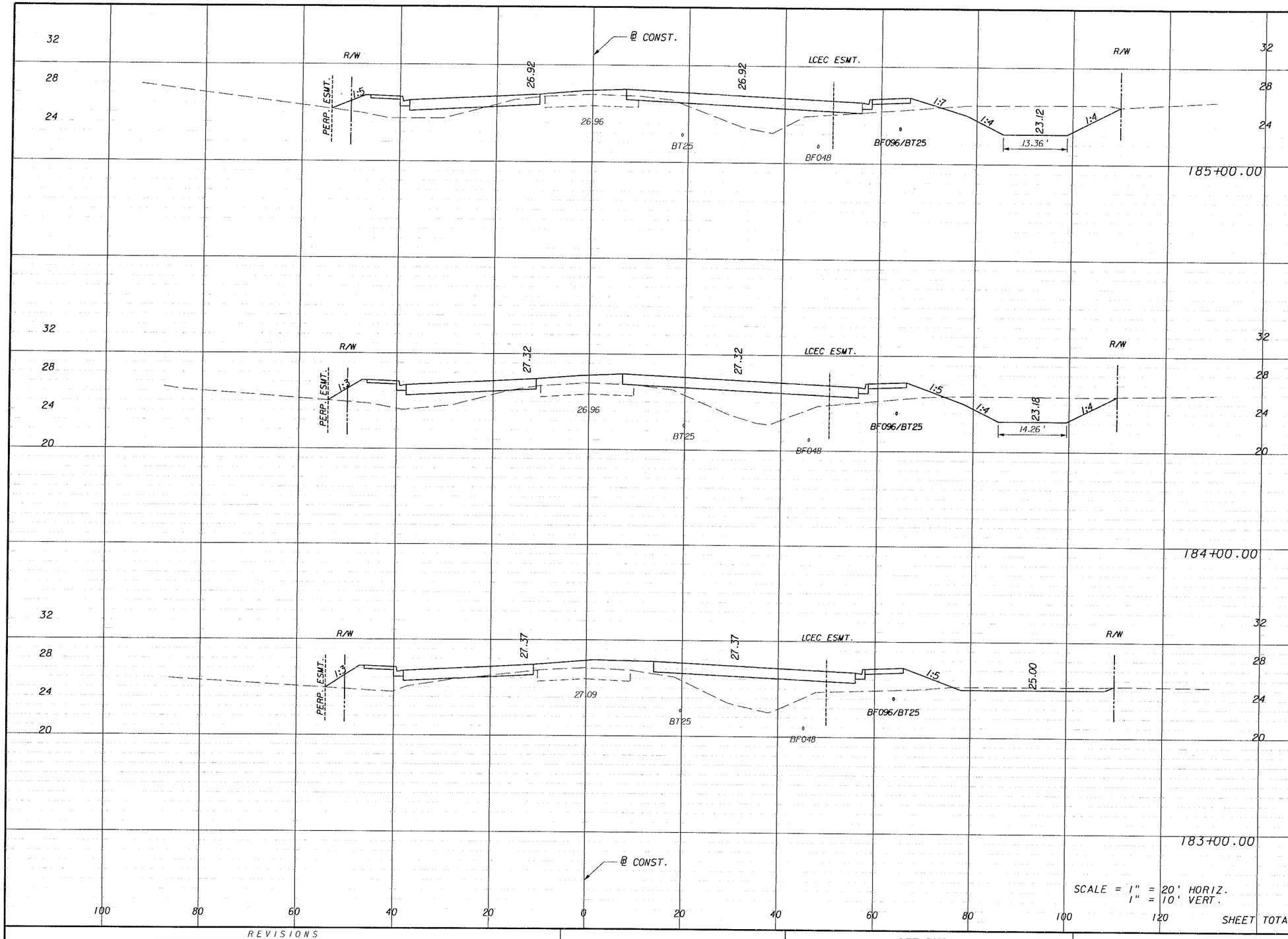

	Regular Exc.		Embankment	
	A	V	A	V
	85.3		94.2	
		279		463
	65.2		155.8	
		146		585
	13.5		159.9	
		100		614
SHEET TOTAL		525		1662

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN GARTHSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 158

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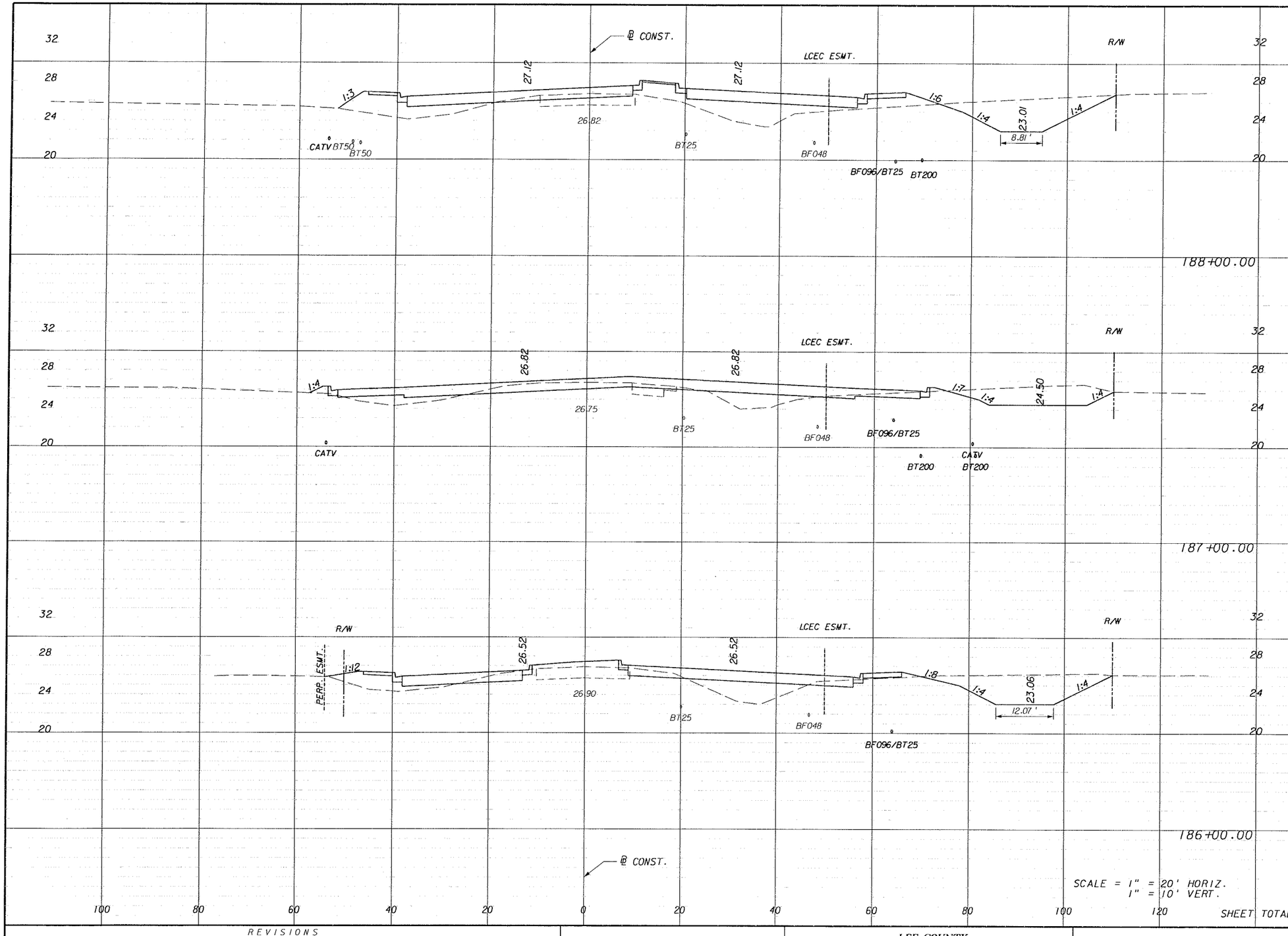

	Regular Exc.		Embankment	
	A	V	A	V
188+00.00	84.8	317	111.4	277
187+00.00	86.4	345	38.4	195
186+00.00	99.9	343	66.7	298
SHEET TOTAL		1005		770

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 159

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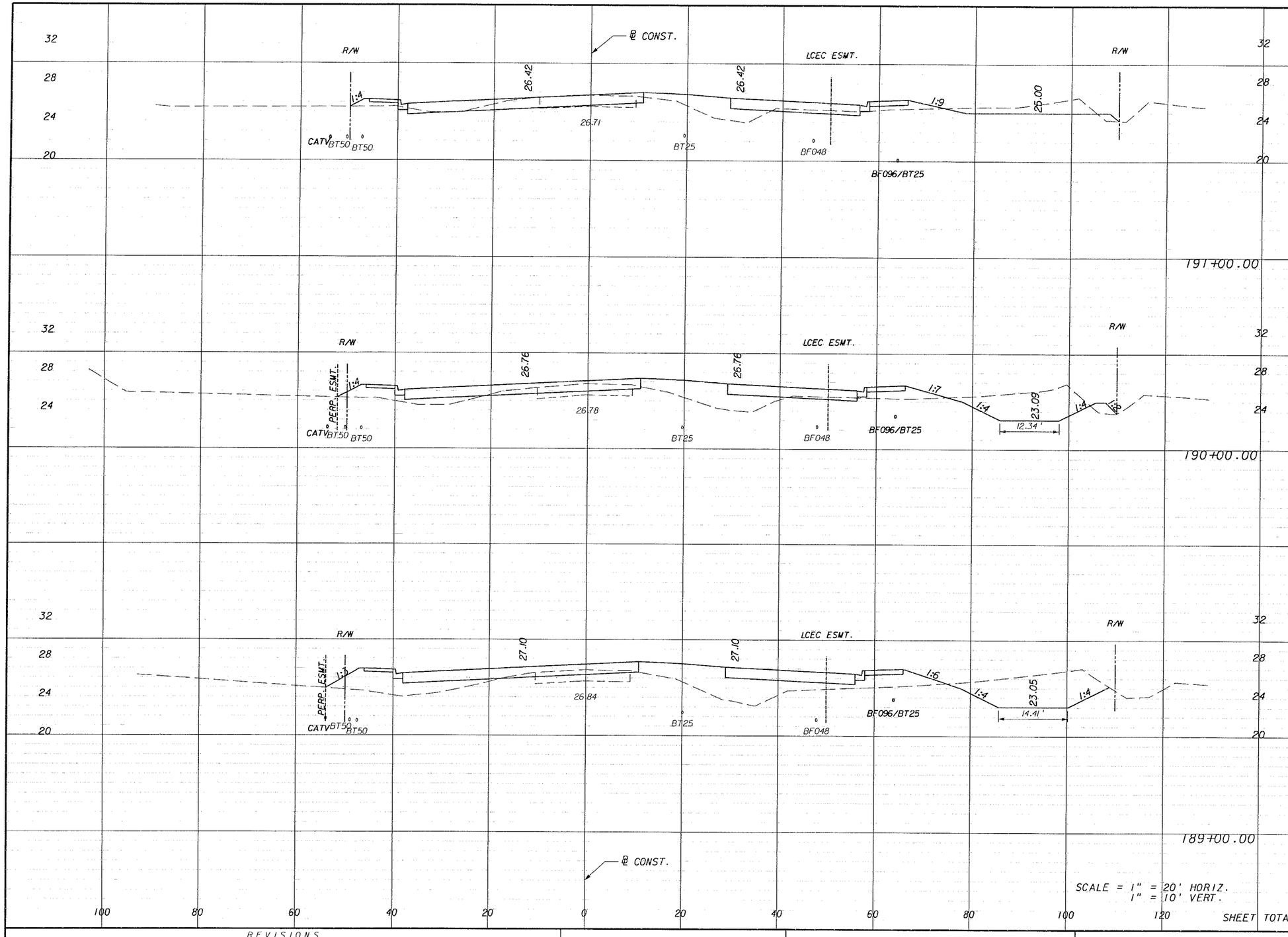

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
64.1		44.4	
	275		238
84.5		84.0	
	328		415
92.8		139.9	
	329		465
SHEET TOTAL	932		1118

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN & HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 160

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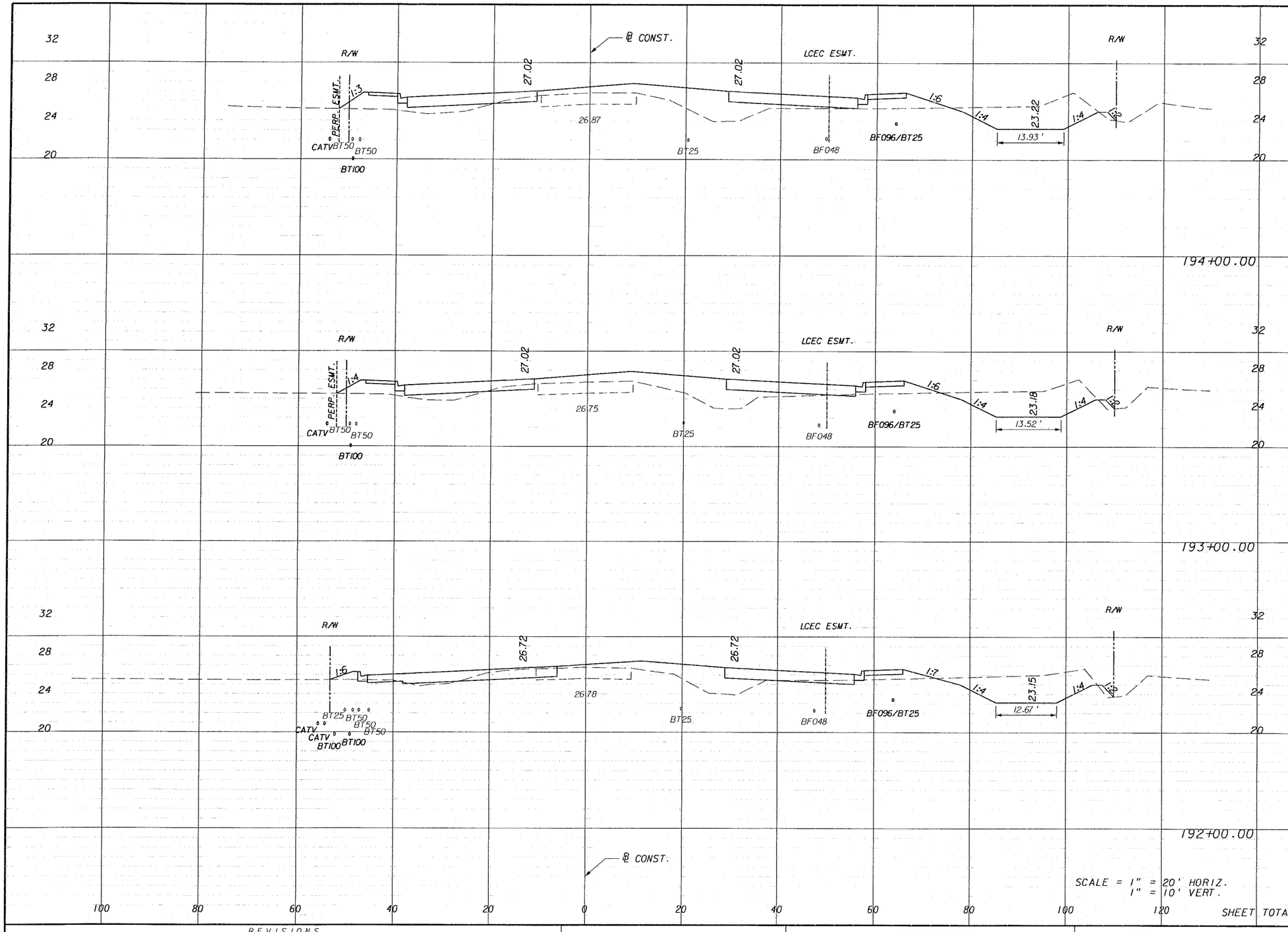

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
63.4		114.0	
	251		402
72.2		102.8	
	299		304
89.2		61.5	
	284		196
SHEET TOTAL	834		902

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HAXTENSTEIN & ASSOC., INC. ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 161

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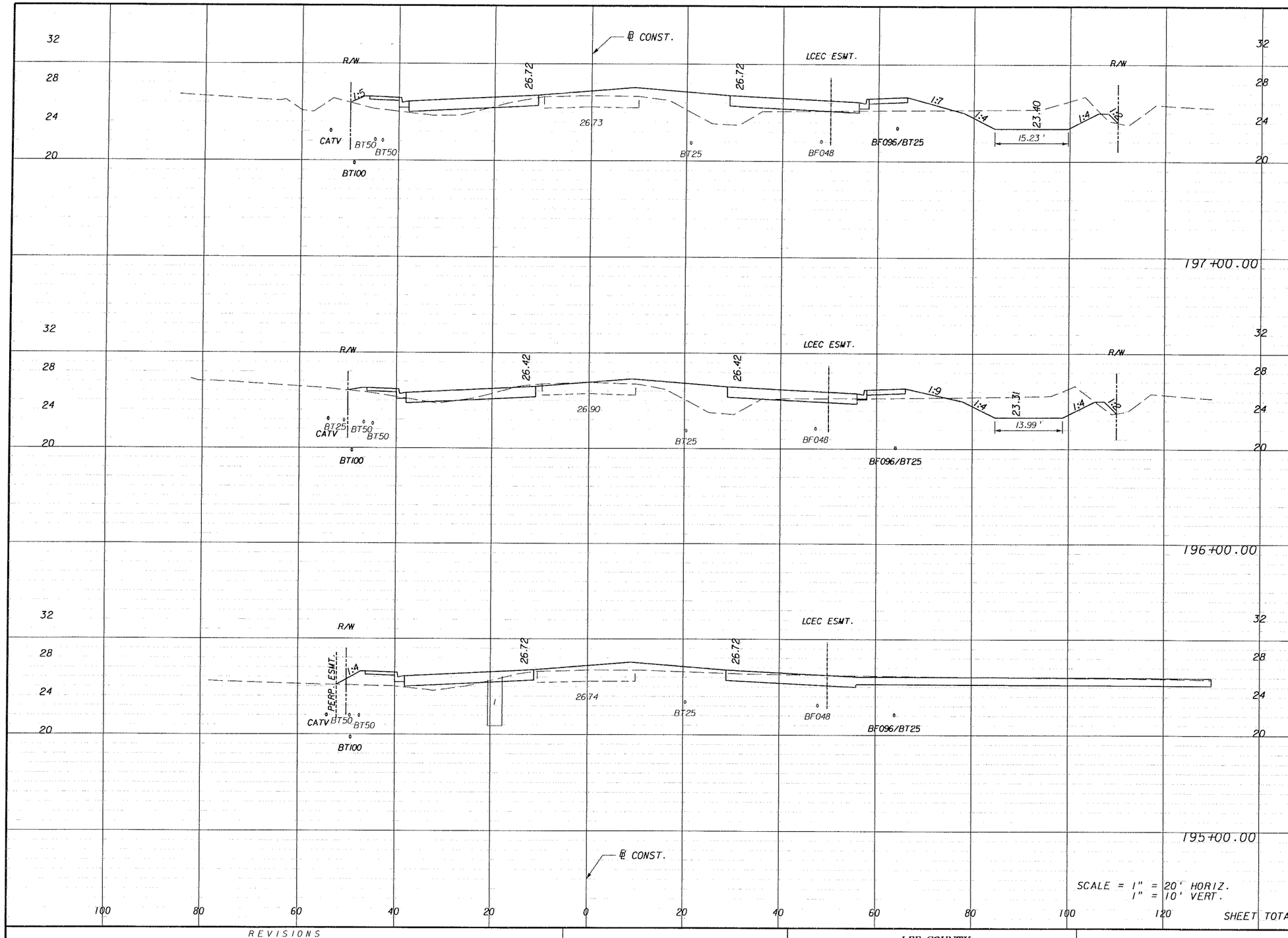

	Regular Exc.		Embankment	
	A	V	A	V
	58.0		89.2	
		243		267
	73.0		54.8	
		299		174
	88.3		39.2	
		281		284
SHEET TOTAL		823		725

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 162

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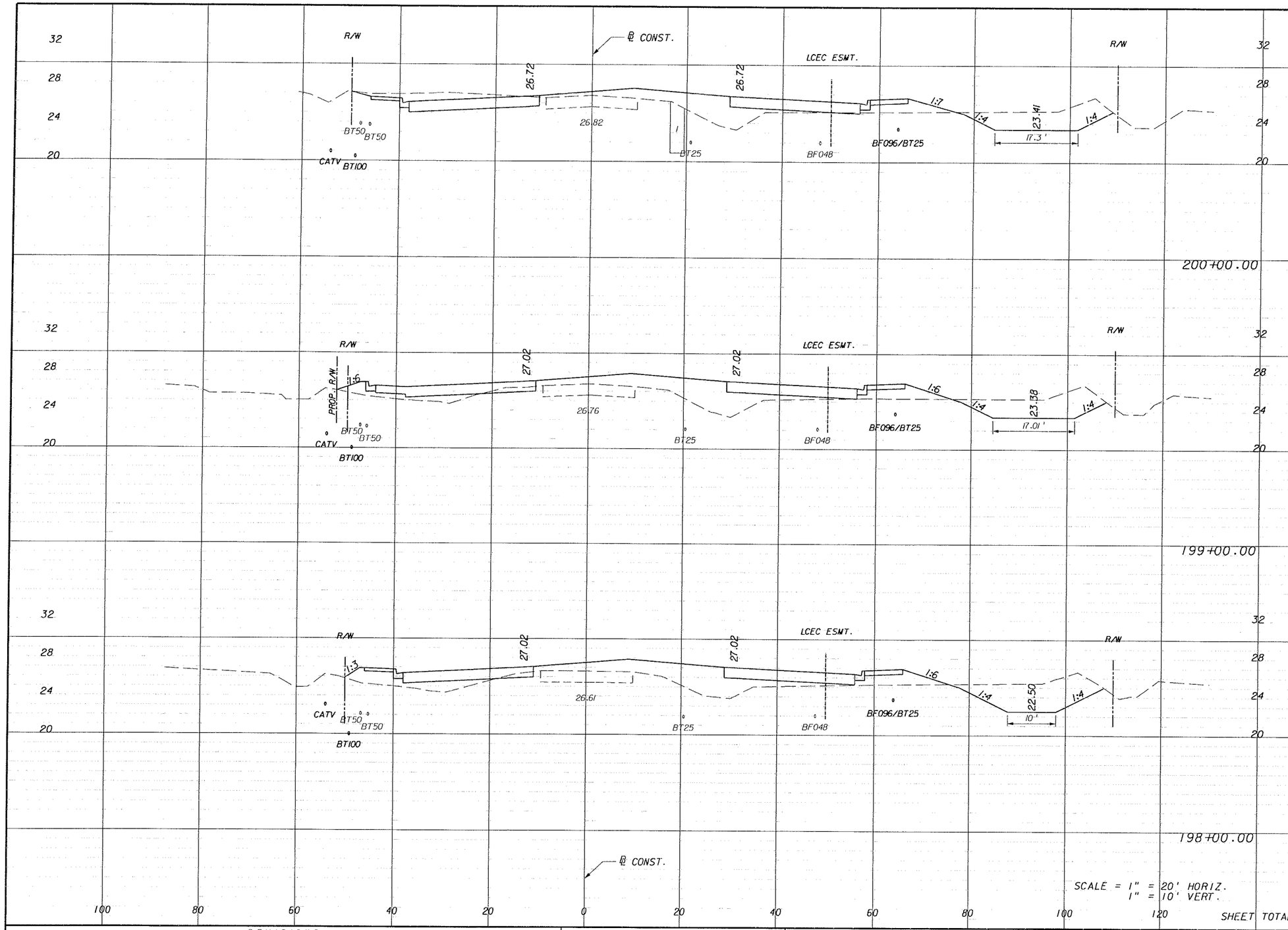

Regular Exc.		Embankment	
A	V	A	V
104.0		75.0	
	306		346
61.0		112.0	
	247		438
72.4		124.3	
	241		395
	794		1179

SHEET TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICK HAMILTONSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 163

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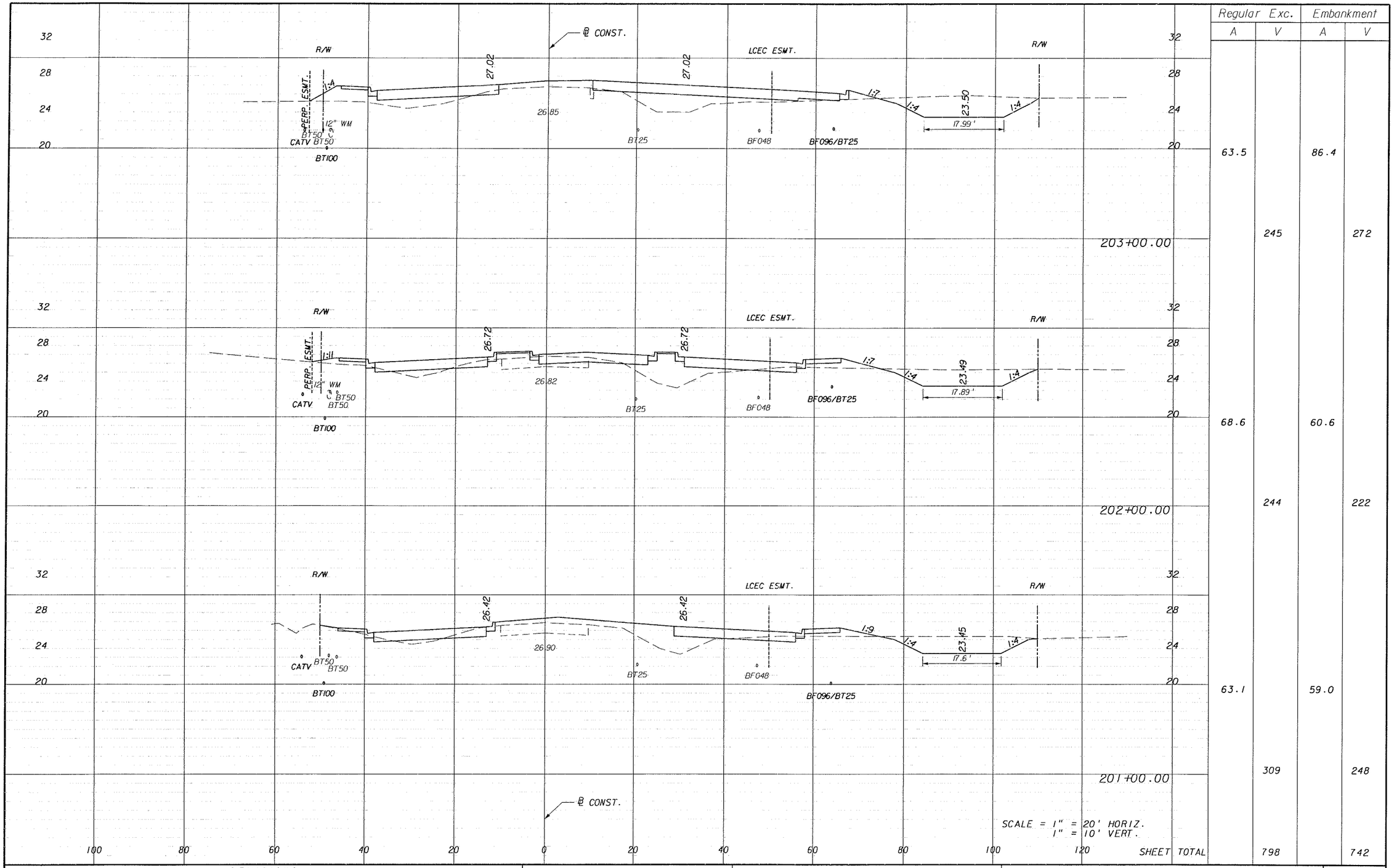


Regular Exc.		Embankment	
A	V	A	V
63.5	245	86.4	272
68.6	244	60.6	222
63.1	309	59.0	248
SHEET TOTAL	798		742

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

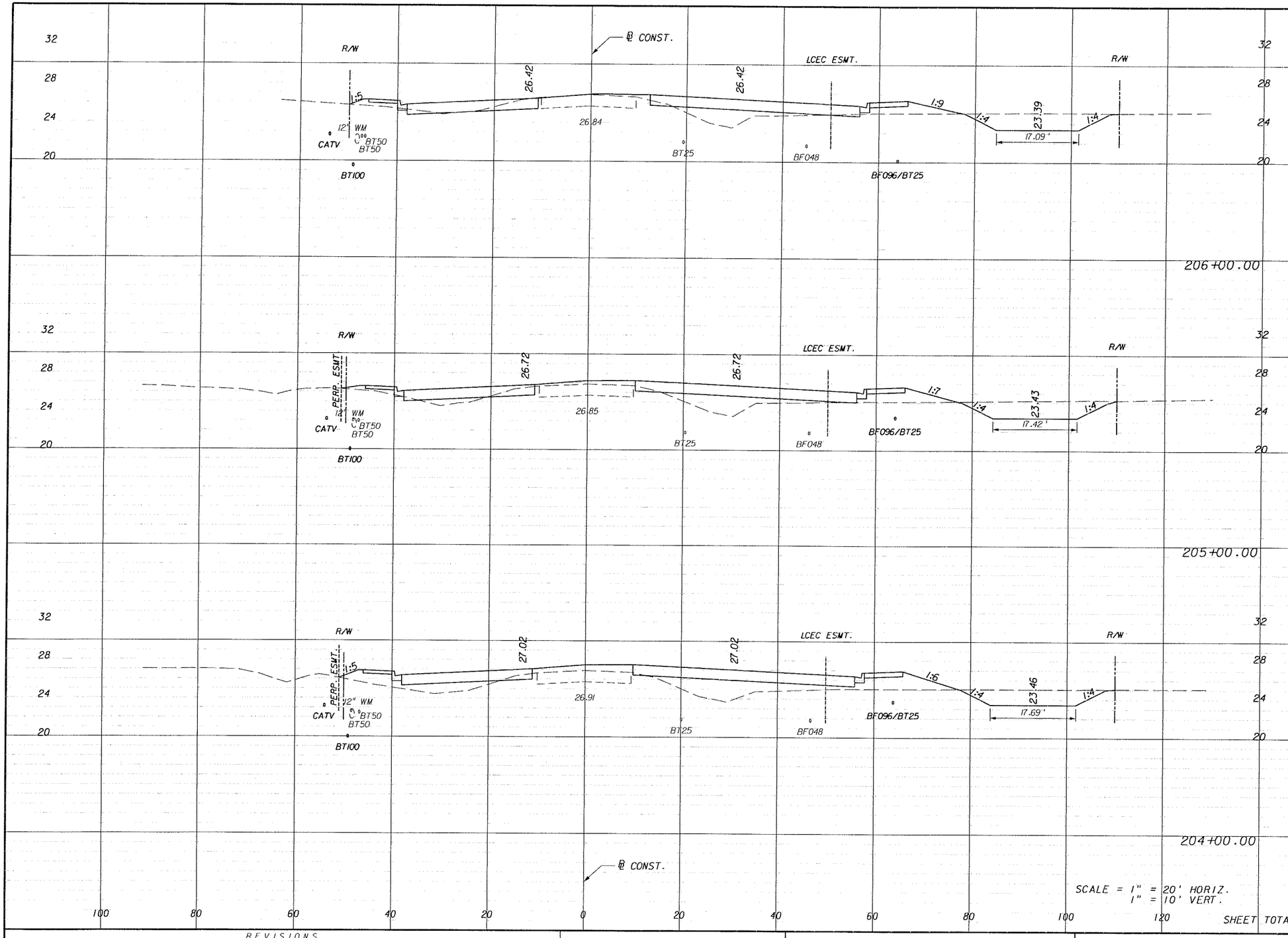
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 164

09/13/2005 07:37:47 AM P:\99012.201\cadd\roadway\rdxsrd01.shg



Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
54.8		43.9	
	199		199
52.5		63.4	
	175		313
41.9		105.9	
	195		356
SHEET TOTAL	569		868

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

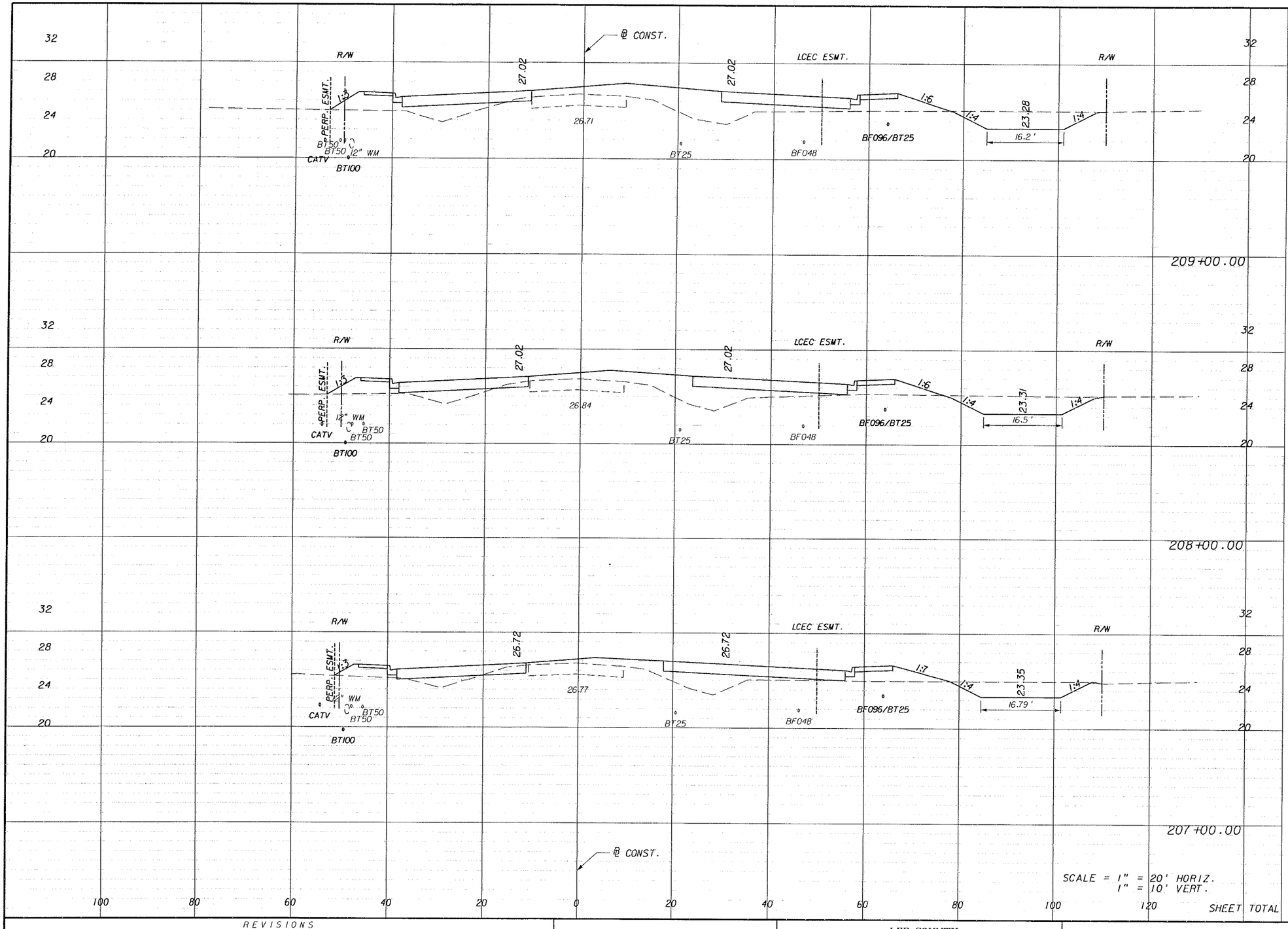
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 165

09/13/2005 07:37:47 AM P:\99012.201\cadd\roadway\rdxsrd01.shg



Regular Exc.		Embankment	
A	V	A	V
44.8		147.3	
	172		494
48.3		119.2	
	169		382
42.8		87.2	
	181		243
SHEET TOTAL	522		1119

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER GARTENTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 166

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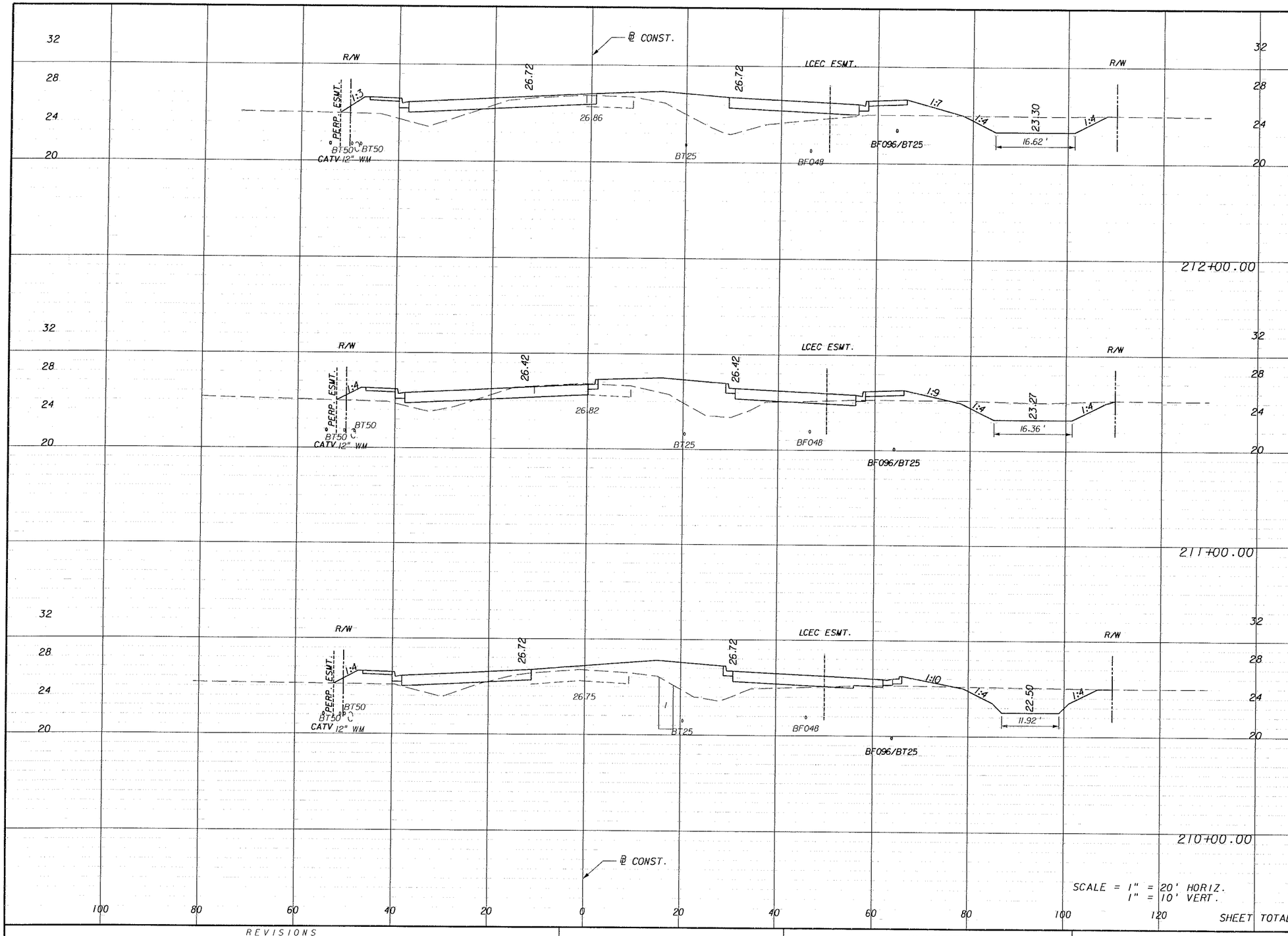

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

	Regular Exc.		Embankment	
	A	V	A	V
	56.7		125.8	
		241		403
	73.6		91.6	
		239		363
	55.4		104.6	
		186		466
SHEET TOTAL	666		1232	

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY MARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 167

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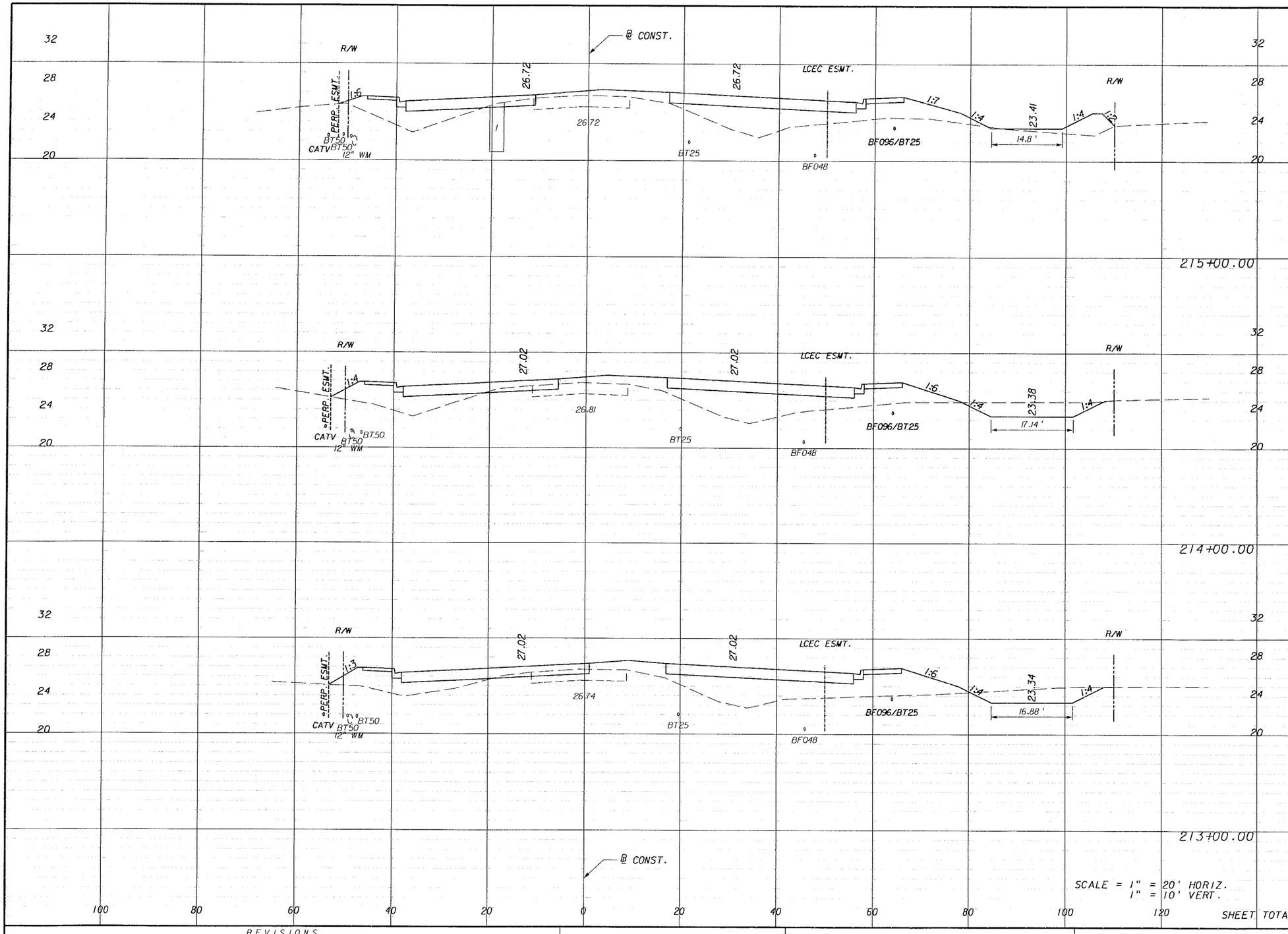

Regular Exc.		Embankment	
A	V	A	V
5.4		177.3	
	87		645
41.7		171.0	
	151		646
40.0		177.9	
	179		562
SHEET TOTAL	417		1853

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 168

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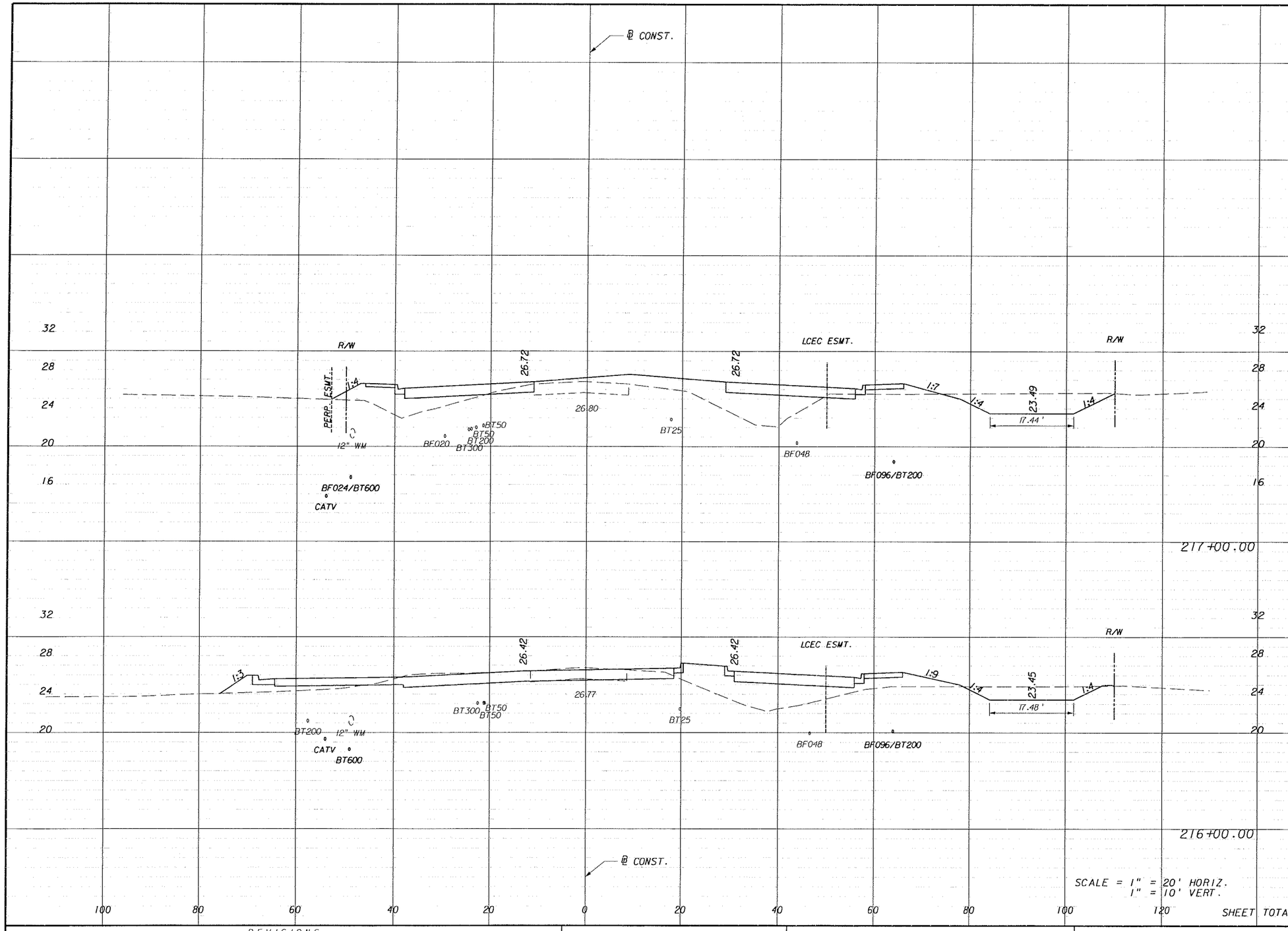

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc.		Embankment	
A	V	A	V
63.4		135.9	
	298		462
97.8		113.5	
	191		539
SHEET TOTAL	489		1001

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 169

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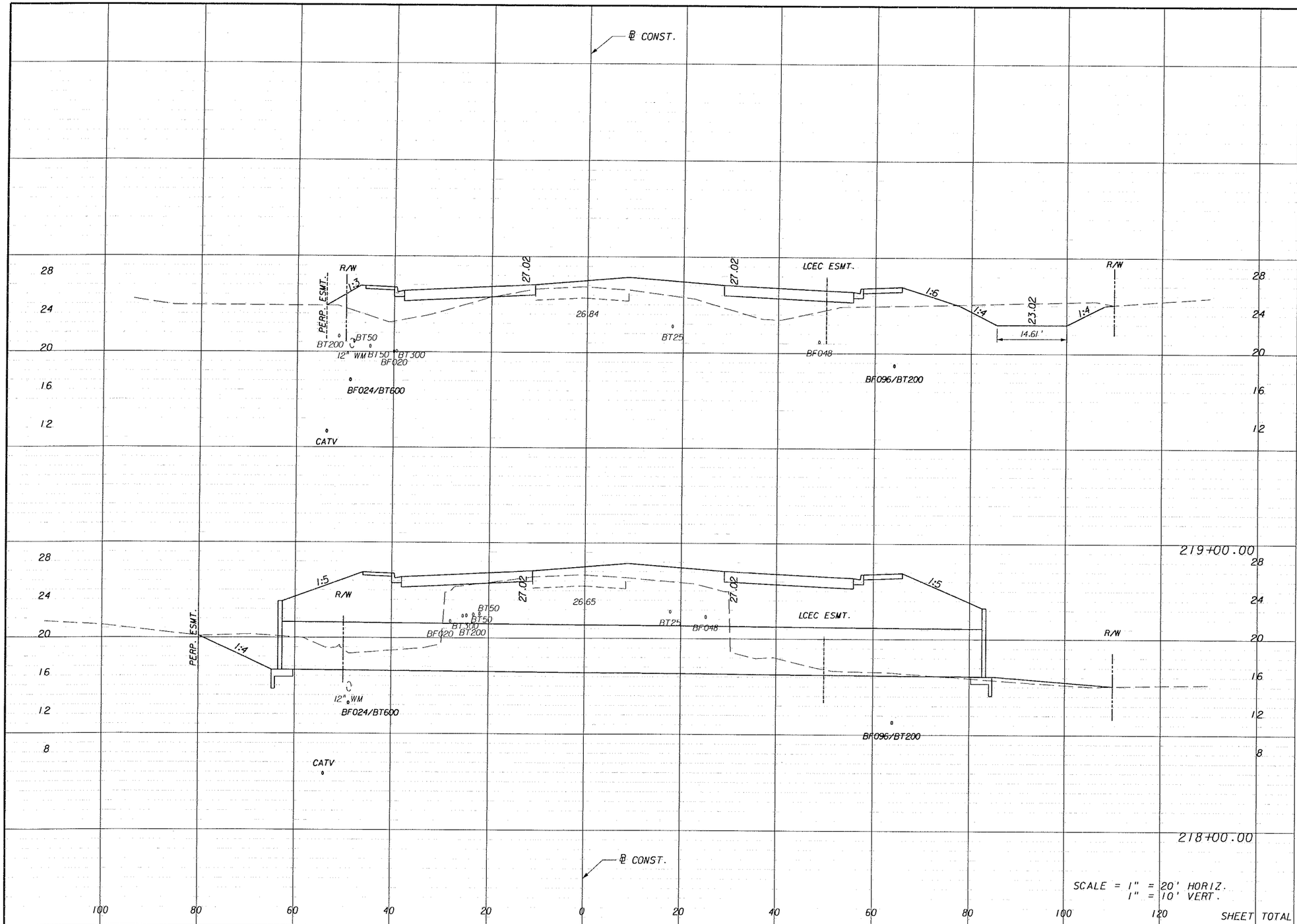

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

	Regular Exc.		Embankment	
	A	V	A	V
	56.4		167.8	
		175		1101
	38.0		427.0	
		188		1042
SHEET TOTAL		363		2143

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROWBRIDGE & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 170

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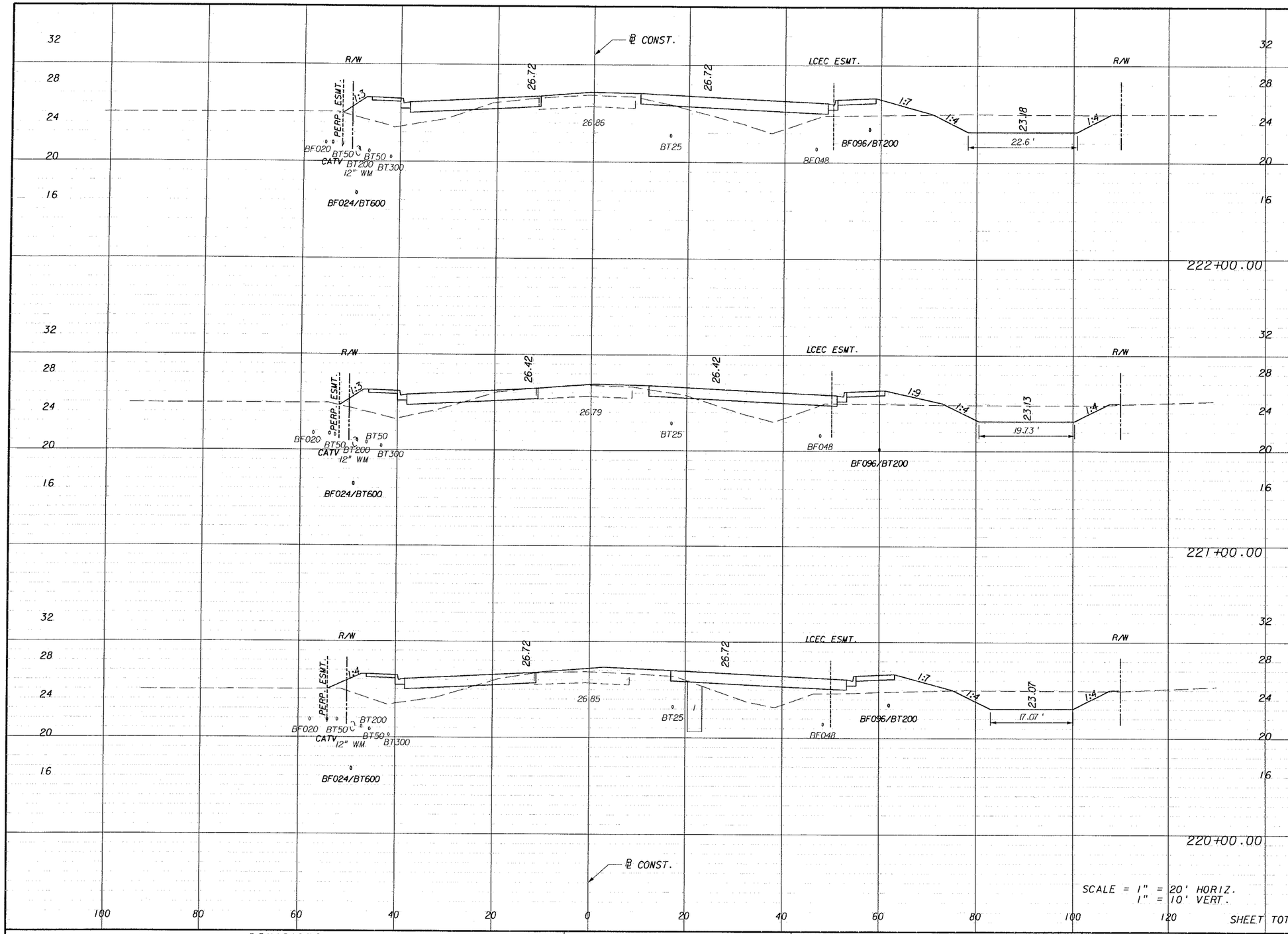

	Regular Exc.		Embankment	
	A	V	A	V
222+00.00	64.2	232	99.5	332
221+00.00	61.1	216	79.8	351
220+00.00	55.4	207	109.9	514
SHEET TOTAL		655		1197

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 171

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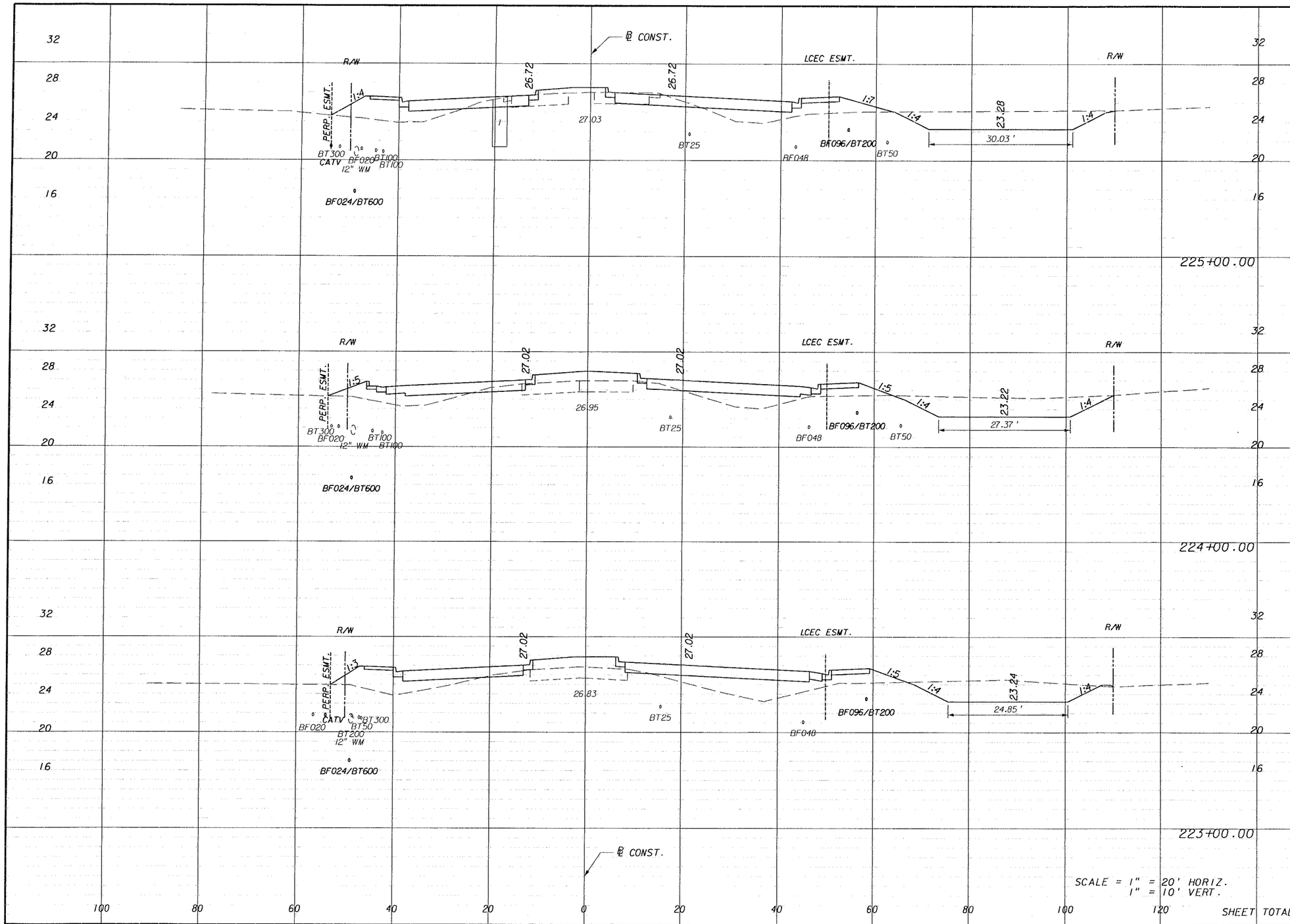

	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
225+00.00	99.9		79.6	
		340		297
224+00.00	83.8		80.8	
		288		368
223+00.00	71.8		118.2	
		252		403
SHEET TOTAL		880		1068

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PFEMAN HAKTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 172

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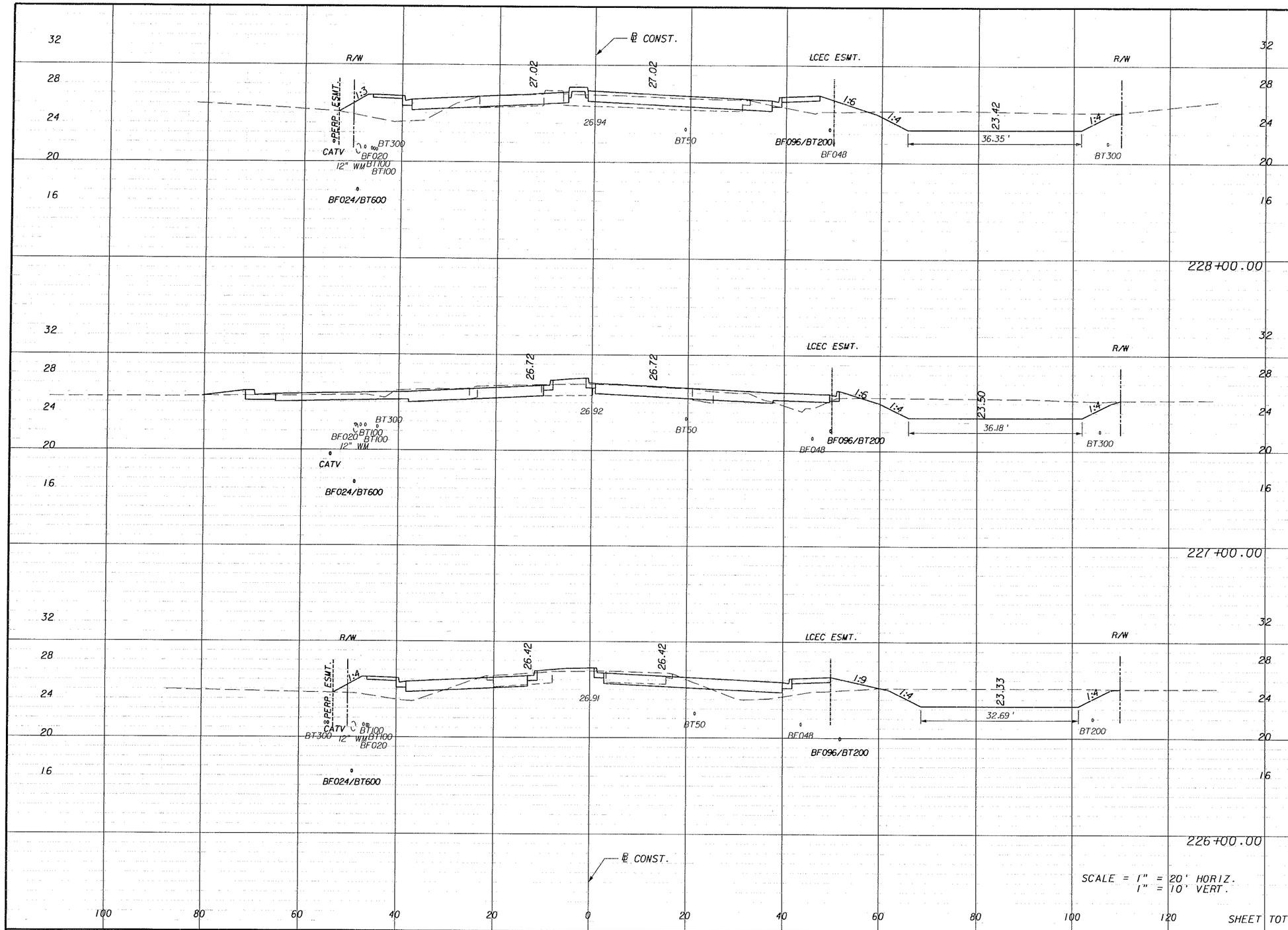

Regular Exc.		Embankment	
A	V	A	V
138.9		48.0	
	583		116
175.7		14.5	
	545		128
118.3		54.9	
	404		249
SHEET TOTAL	1532		493

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTINE & ASSOC. INC
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 173

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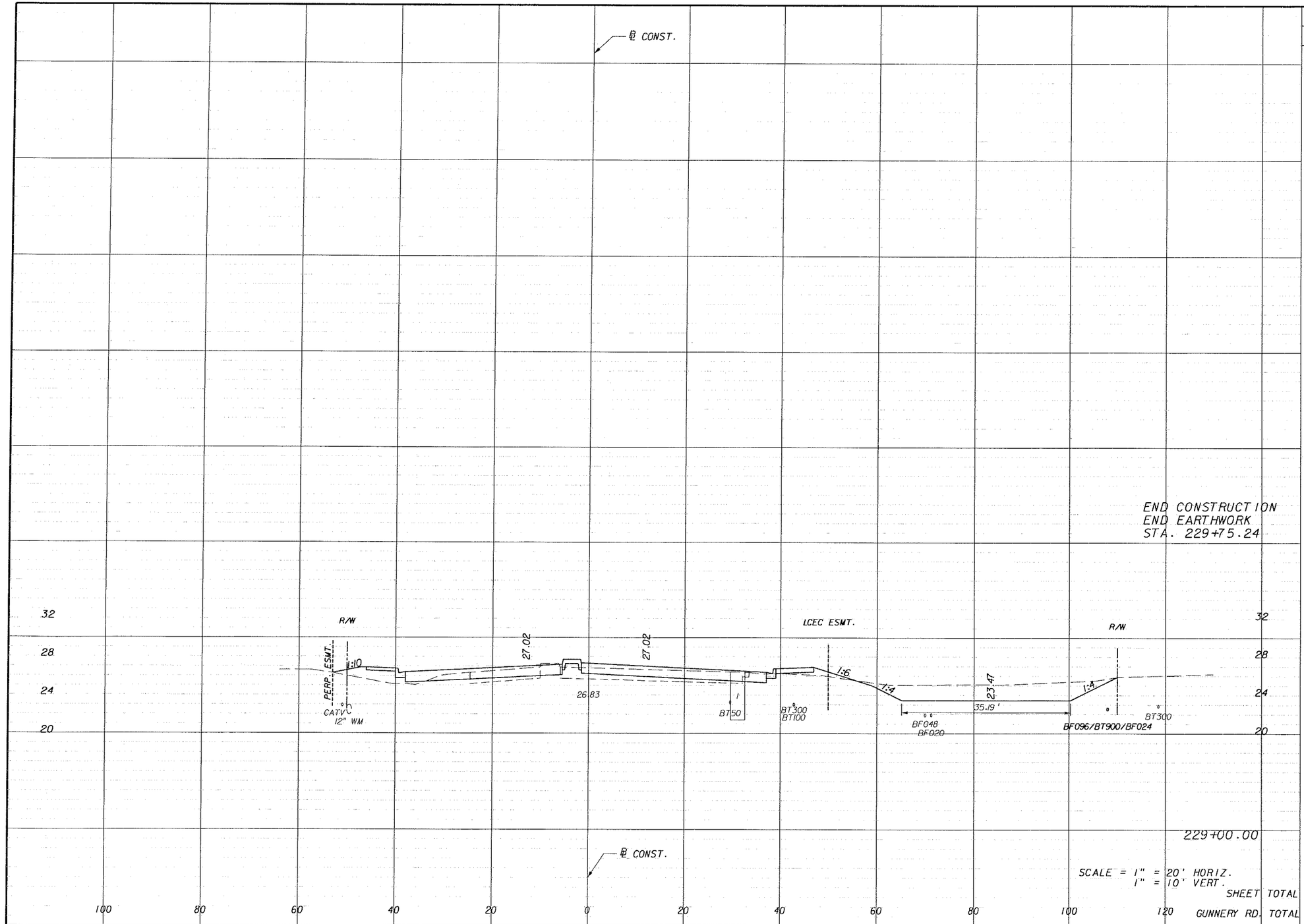

Regular Exc.		Embankment	
A	V	A	V
0		0	
	177		23
0		0	
	177		25
127.3		18.1	
	493		122
	670		147
	27589		49024

GUNNERY RD. TOTAL

SHEET TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICK BARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS

SHEET NO. 174

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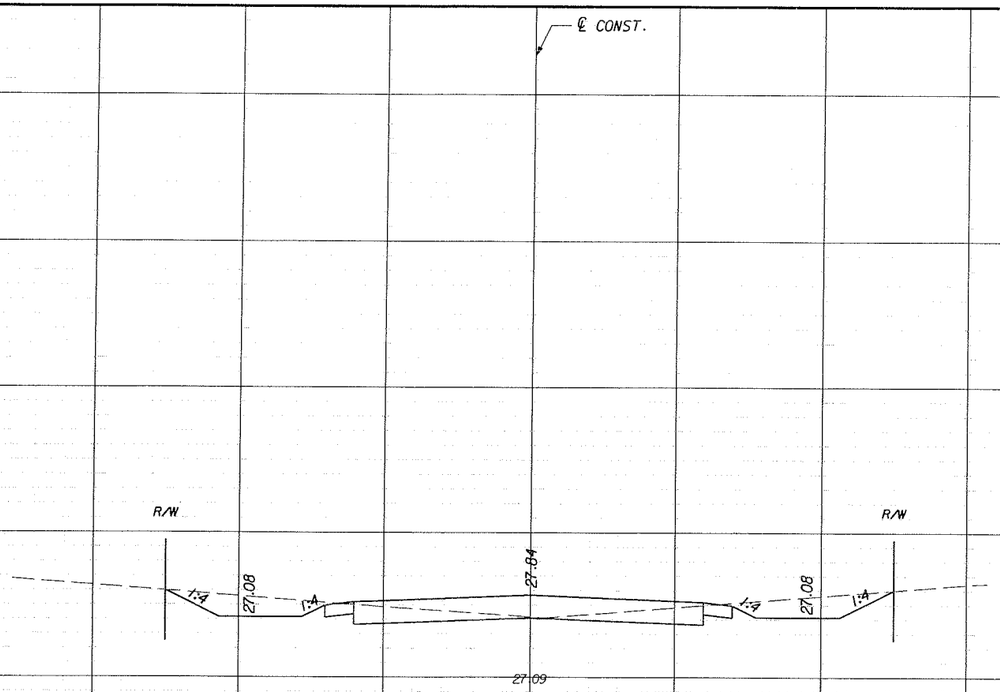


	Regular Exc.		Embankment	
	A	V	A	V
END EARTHWORK STA. 32+73.32	0.0		0.0	
		29		0
30				
28				
26				
	21.6		0.0	
		66		5
32+00.00				
30				
28				
26	14.3		2.7	
31+00.00				
		15		0
BEGIN EARTHWORK STA. 30+42.59	0.0		0.0	
SCALE = 1" = 10' HORIZ. 1" = 5' VERT.				
27th STREET S.W. TOTAL		110		8

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

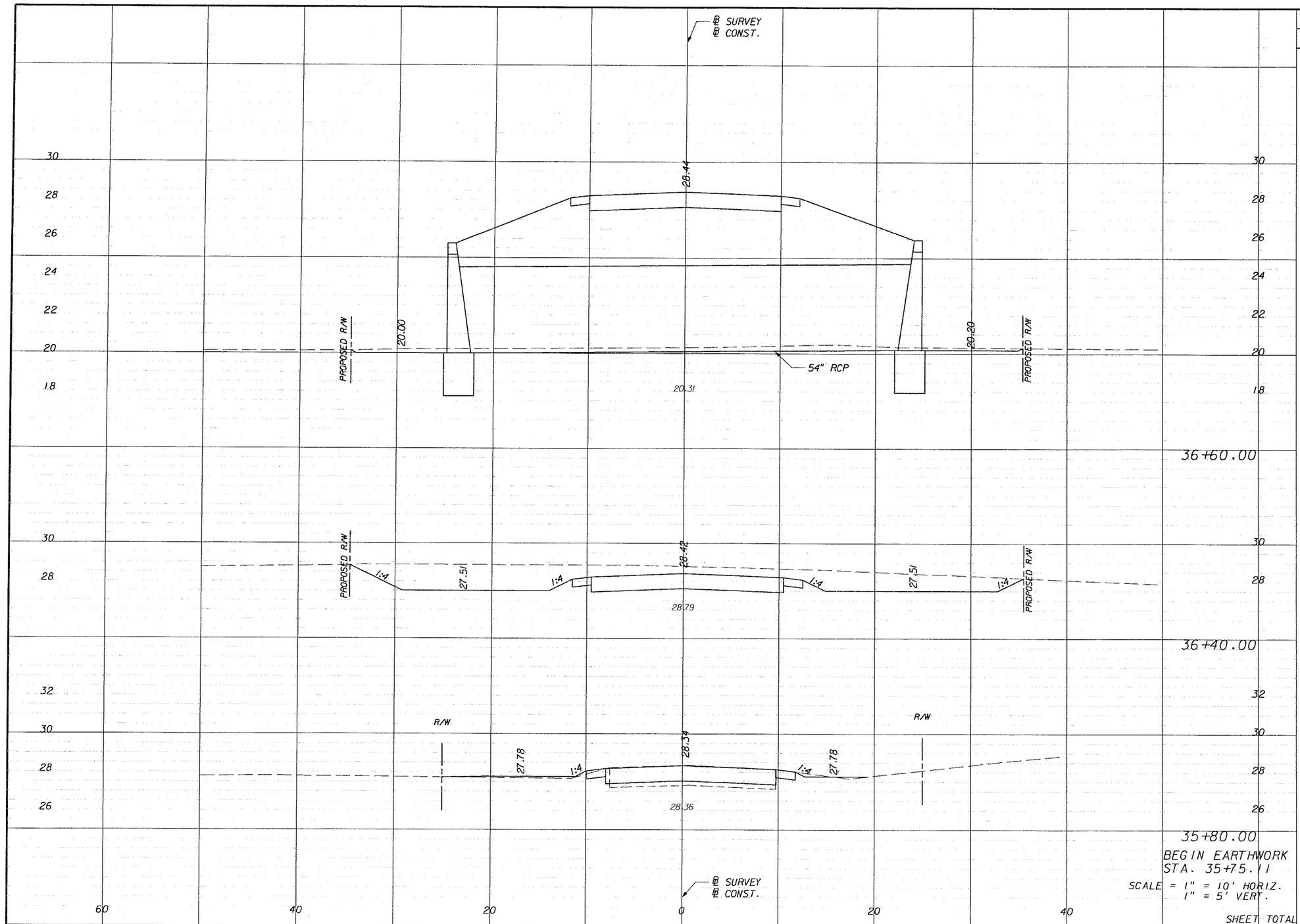
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
27TH STREET S.W.

SHEET NO. 175

09/13/2005 07:37:54 AM P:\99012.201\cadd\roadway\rdxsrd02.shg



Regular Exc.		Embankment	
A	V	A	V
3.2		128.4	
	29		48
75.8		0.0	
	102		1
16.4		1.2	
	2		0
0.0		0.0	
	133		49

SHEET TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTMYSTROM & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
24TH STREET S.W.

SHEET NO. 176

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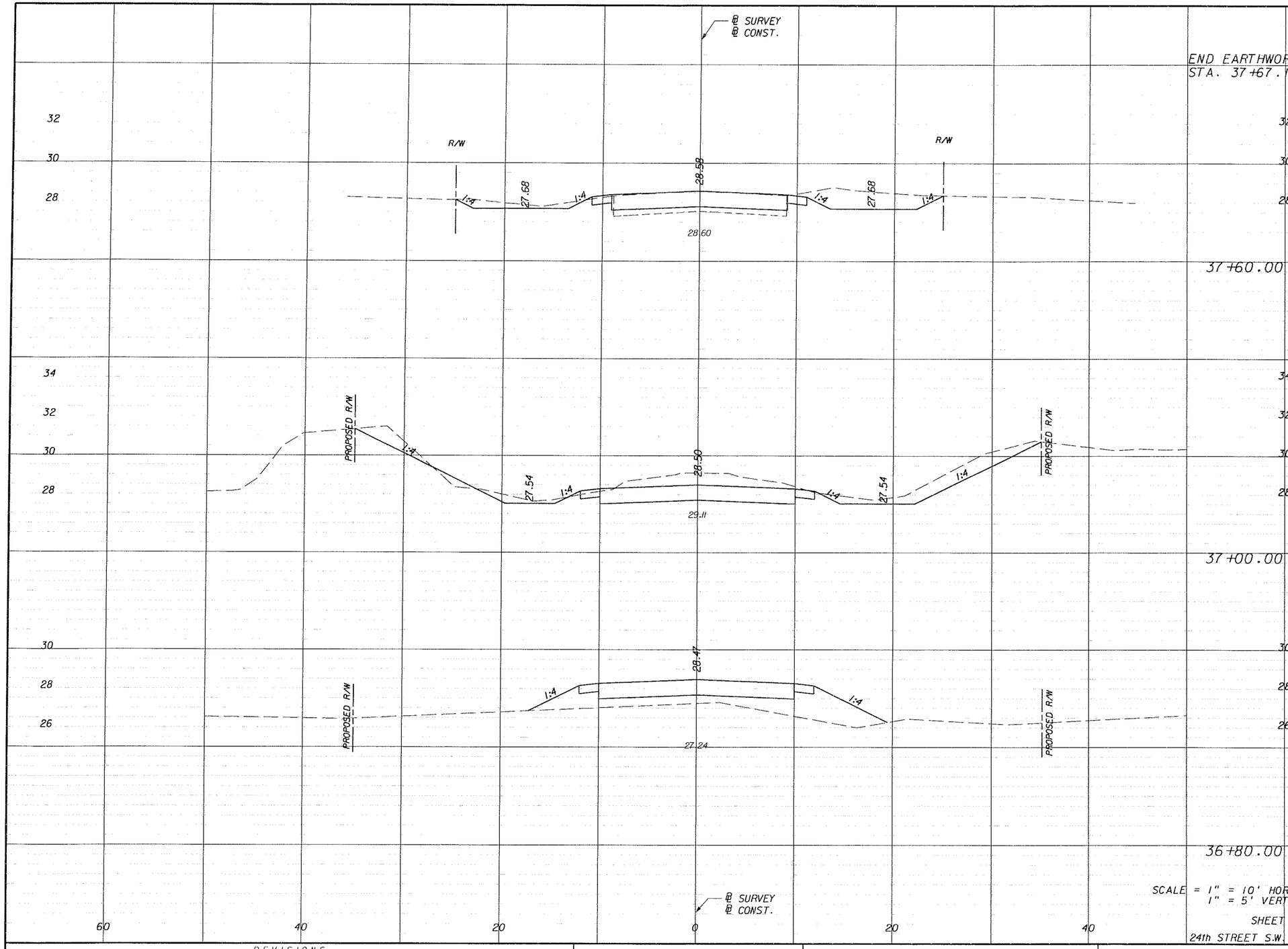

Regular Exc.		Embankment	
A	V	A	V
0.0		0.0	
	4		0
29.3		0.0	
	80		1
42.5		1.1	
	16		10
0.0		25.0	
	1		57
SHEET TOTAL	101		68
24th STREET S.W. TOTAL	234		117

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICKY HARRINGTON & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
24TH STREET S.W.

SHEET NO. 177

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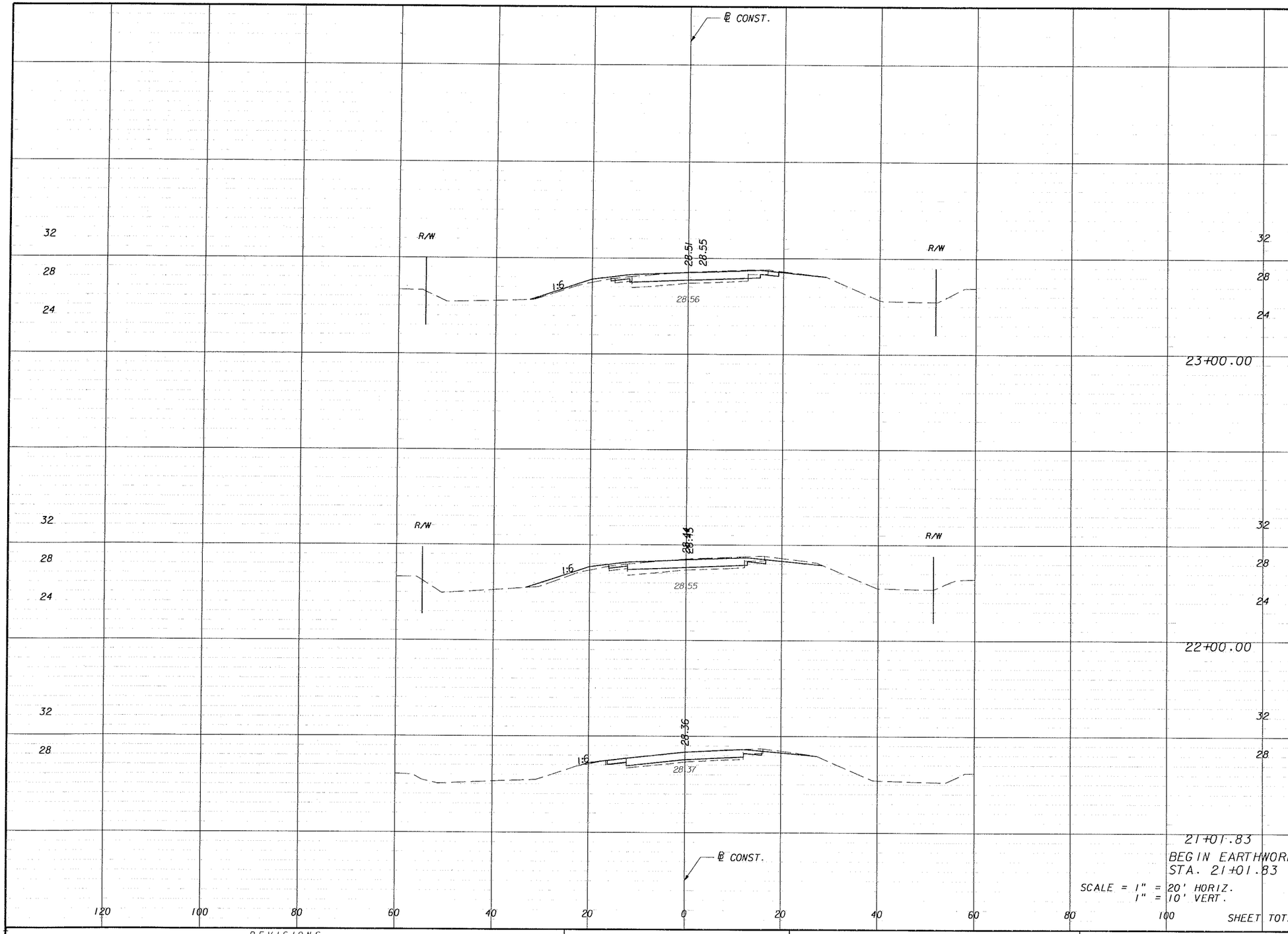

SCALE = 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc.		Embankment	
A	V	A	V
25.3		3.1	
	97		14
27.0		4.6	
	95		9
25.1		0.3	
SHEET TOTAL	192		23

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICK HARRINGTON & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
LEONARD STREET

SHEET NO. 178

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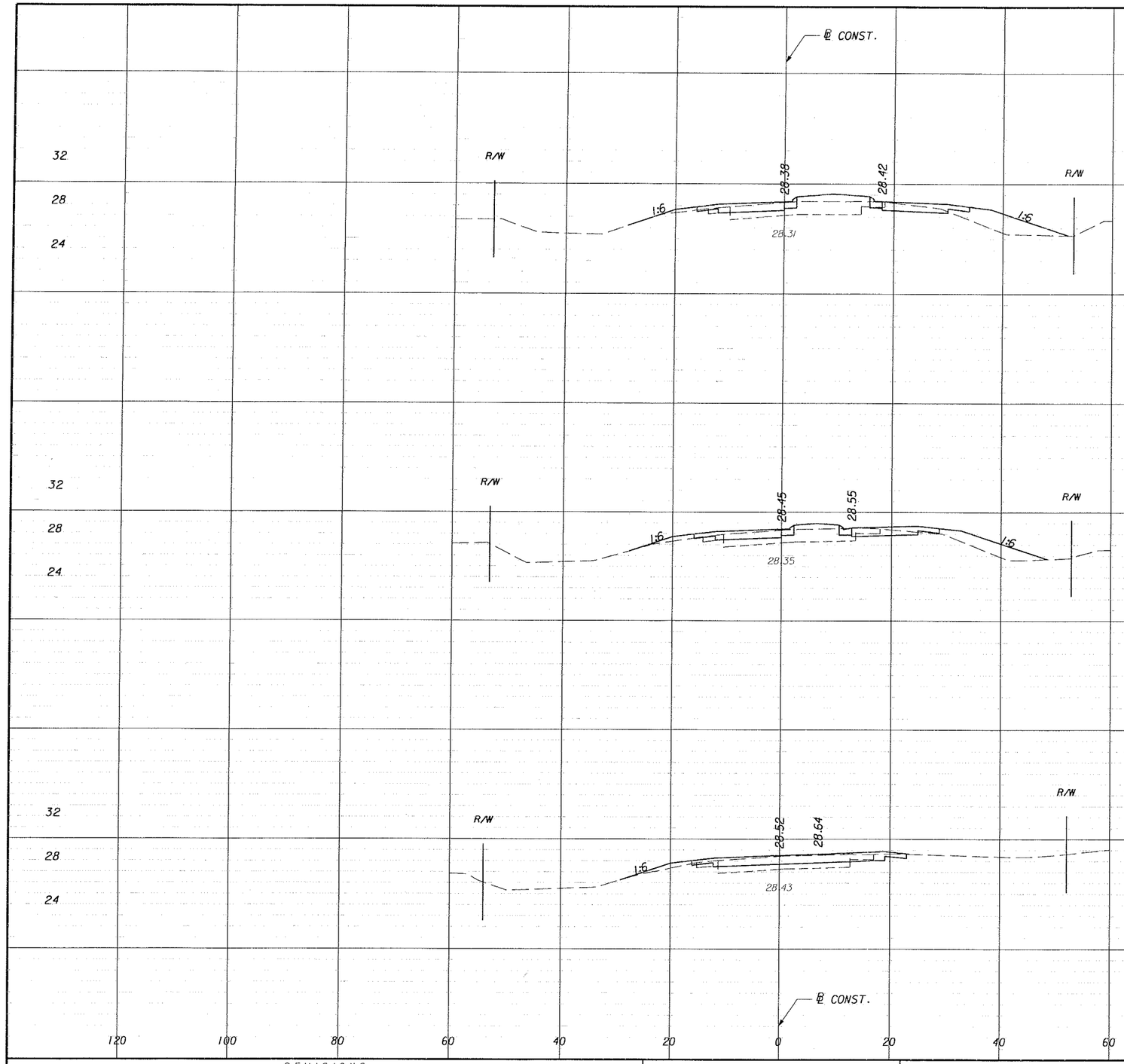


Regular Exc.		Embankment	
A	V	A	V
16.7		31.7	
	62		103
16.5		24.0	
	72		50
22.1		3.1	
	88		12
SHEET TOTAL	222		165

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

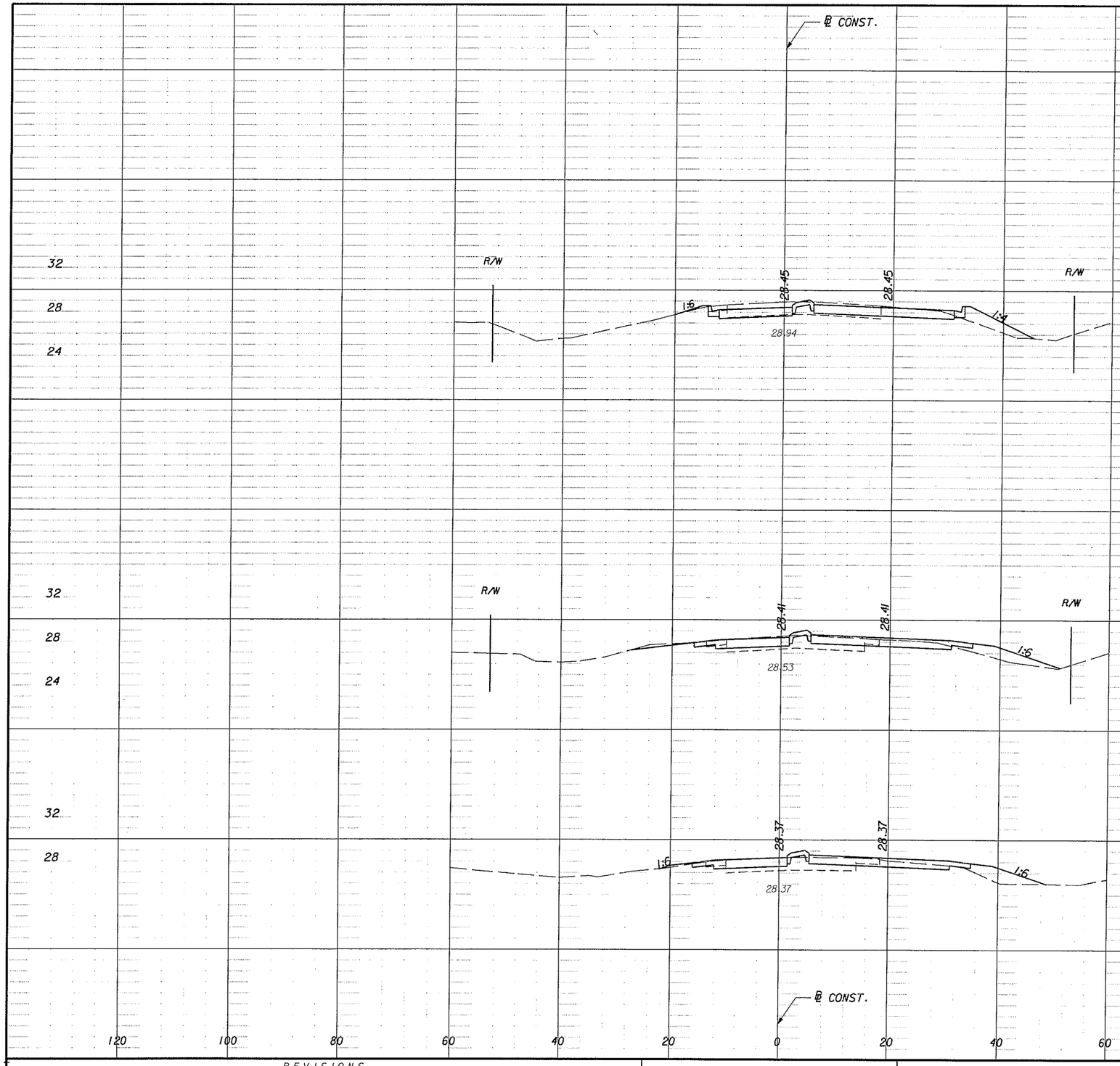
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
LEONARD STREET

SHEET NO. 179

09/13/2005 07:37:53 AM P:\99012.201\cadd\roadway\rdxsrd02.dwg



	Regular Exc.		Embankment	
	A	V	A	V
END EARTHWORK STA. 29+50.00	0.0		0.0	
		64		5
29+00.00	69.4		4.9	
		223		22
28+00.00	51.1		6.8	
		154		32
27+00.00	31.9		10.4	
		90		78
SHEET TOTAL		531		137
LEONARD ST. TOTAL		945		325

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/26/06	JW	REVISED PGL STA. 27+00-29+00			

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
LEONARD STREET

SHEET NO. 180

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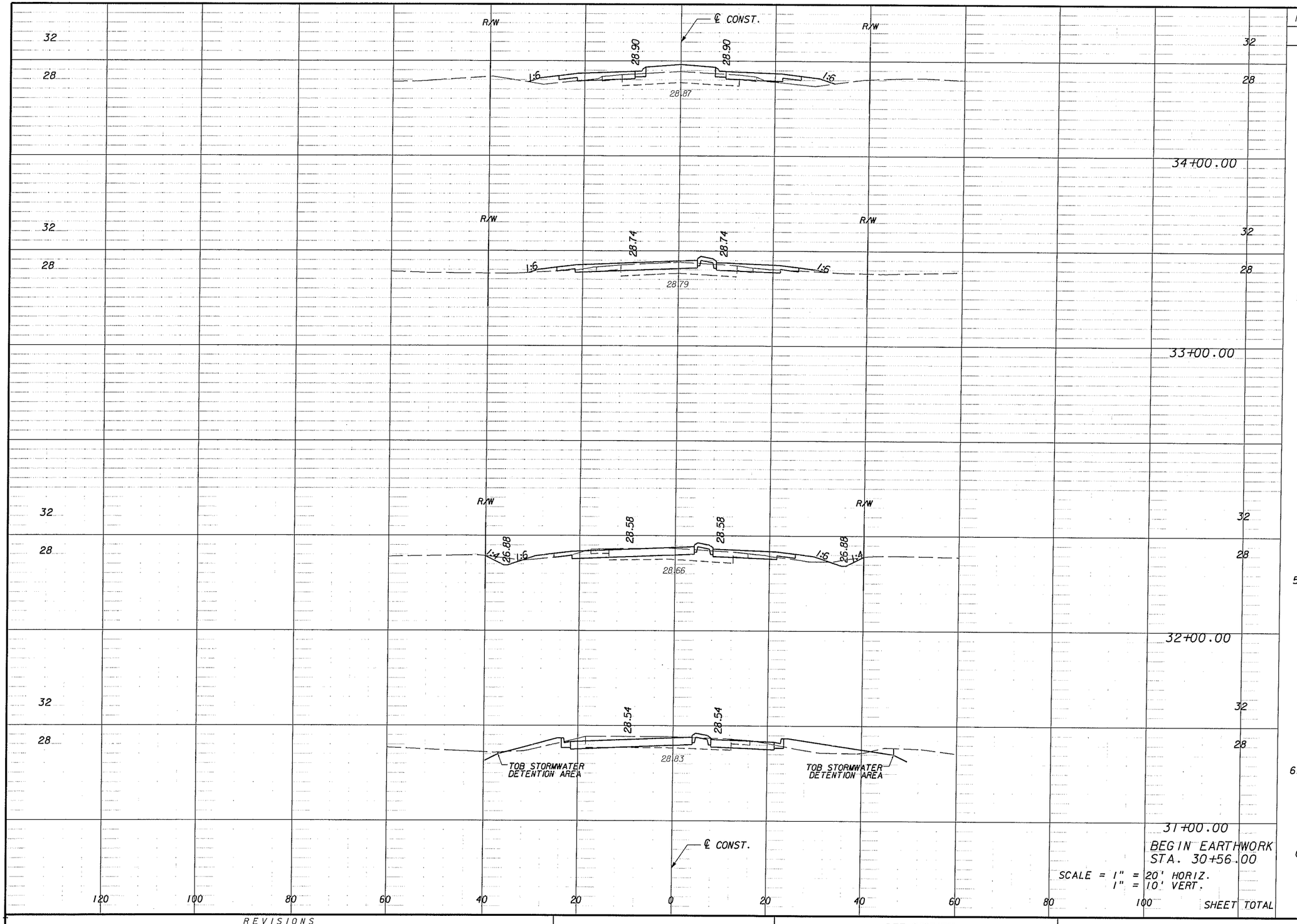

Regular Exc.		Embankment	
A	V	A	V
8.3		22.5	
	70		44
29.7		1.1	
	157		4
54.9		0.8	
	229		17
69.0		8.6	
	56		7
0.0		0.0	
SHEET TOTAL	512		72

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/26/06	JW	REVISED PGL 30+00-34+00			

PITTMAN HASTEMSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
23RD STREET S.W.

SHEET NO. 181

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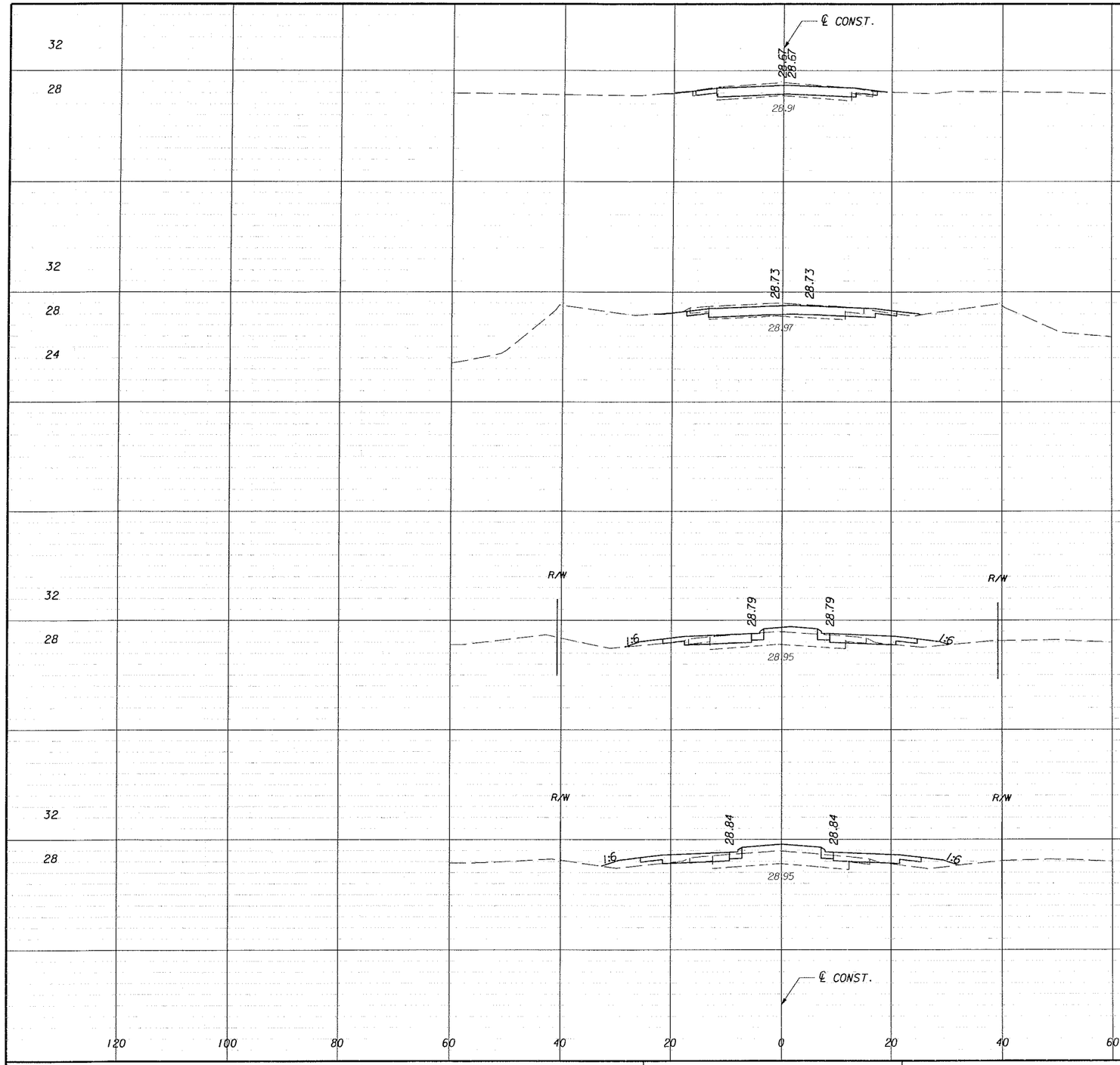

Regular Exc.		Embankment	
A	V	A	V
0.0		0.0	
	14		0
27.3		0.1	
	110		2
31.9		0.9	
	88		21
15.7		10.5	
	46		57
9.3		20.3	
	33		79
	291		159
	803		231

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

SHEET TOTAL

LEONARD ST. TOTAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
23RD STREET S.W.

SHEET NO. 182

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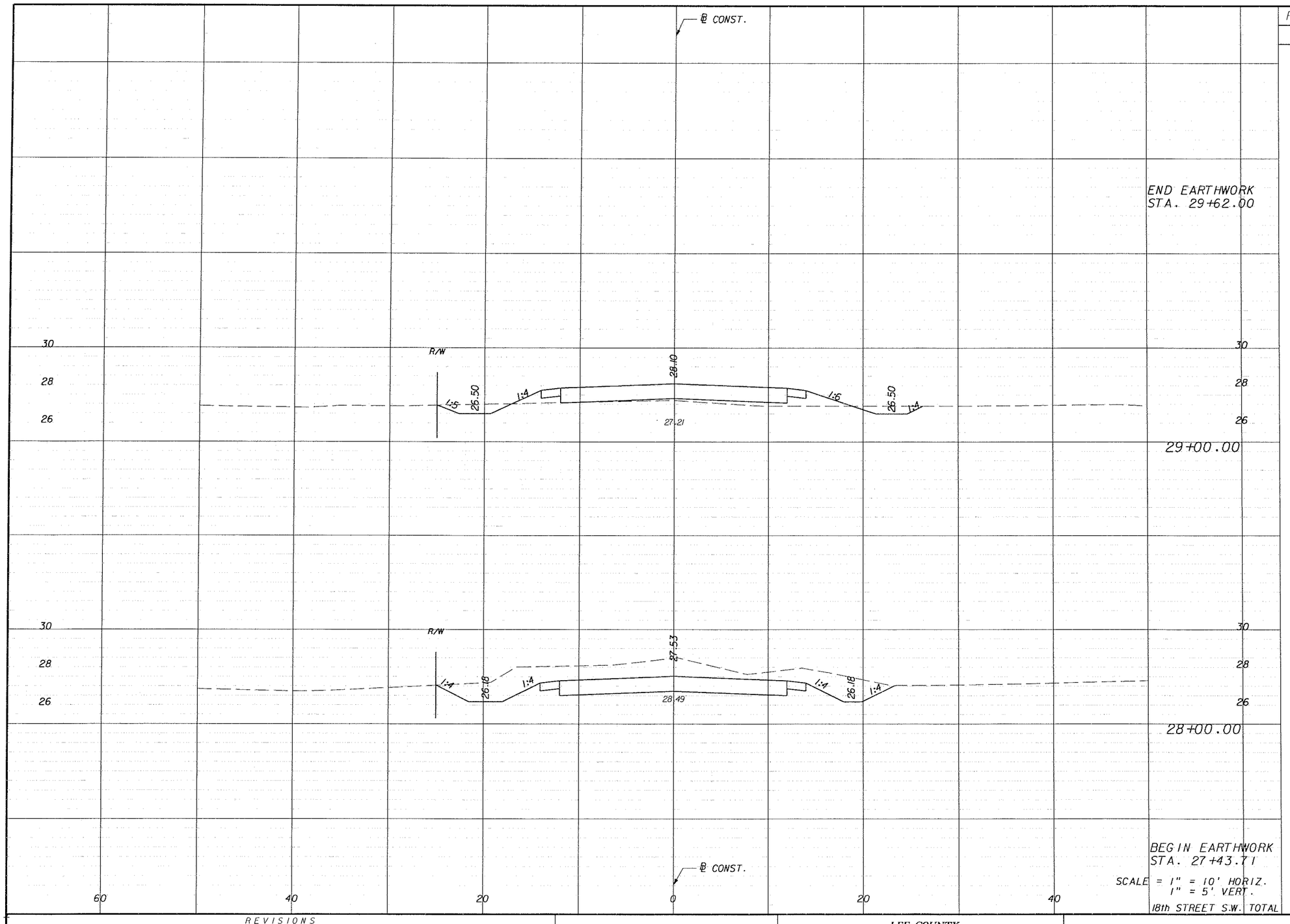


	Regular Exc.		Embankment	
	A	V	A	V
END EARTHWORK STA. 29+62.00	0.0		0.0	
		6		8
29+00.00	4.9		7.1	
		119		13
28+00.00	59.2		0.0	
		62		0
BEGIN EARTHWORK STA. 27+43.71	0.0		0.0	
18th STREET S.W. TOTAL		187		21

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEVMARY HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

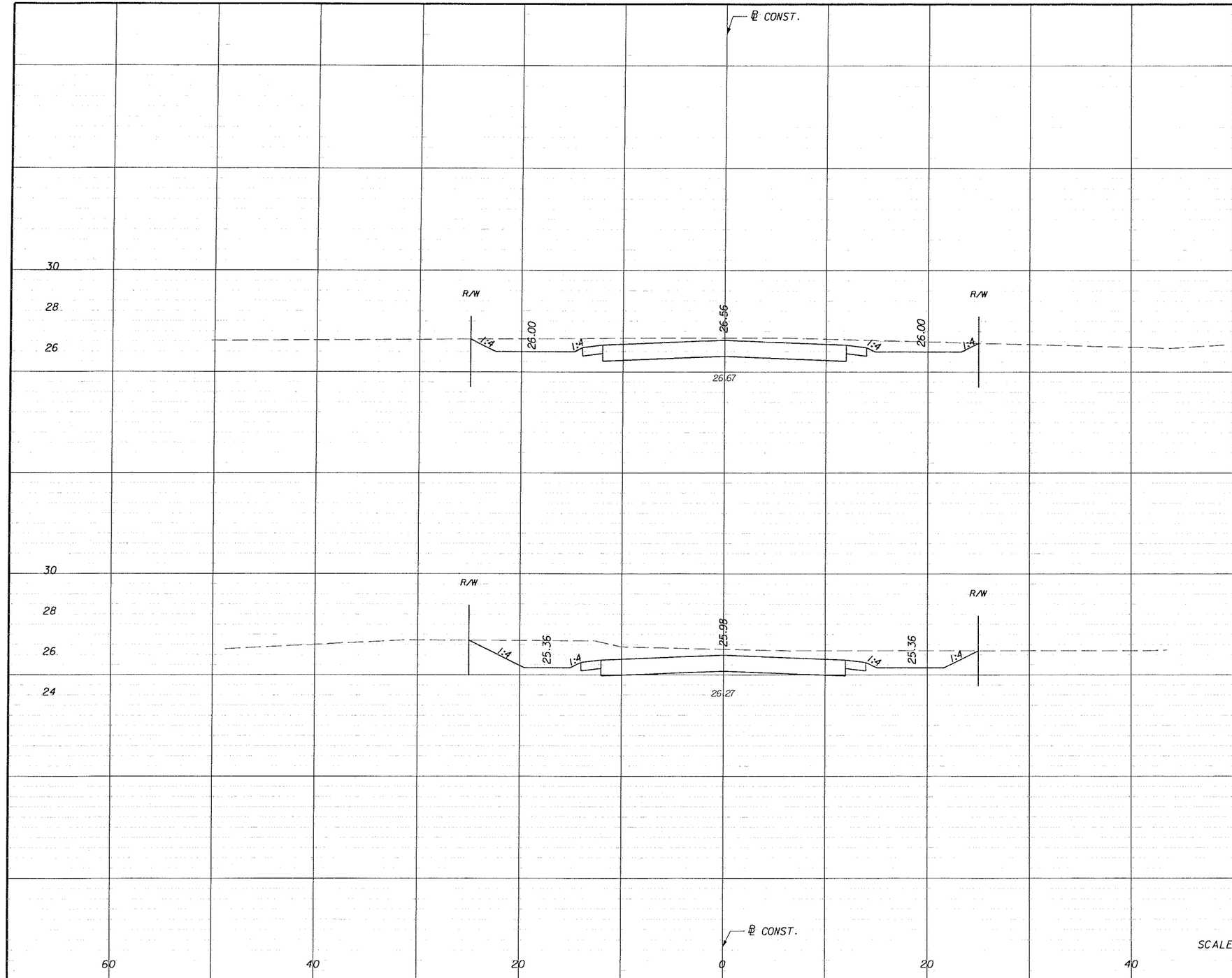
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
18TH STREET S.W.

SHEET NO. 183

09/13/2005 07:37:55 AM P:\99012.201\cadd\roadway\rdxsrd02.shg



	Regular Exc.		Embankment	
	A	V	A	V
END EARTHWORK STA. 29+62.00	0.0		0.0	
		44		0
	38.4		0.0	
29+00.00		168		0
	52.5		0.0	
28+00.00		53		0
BEGIN EARTHWORK STA. 27+45.28	0.0		0.0	
13th STREET S.W. TOTAL		265		0

SCALE = 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
13TH STREET S.W.

SHEET NO. 184

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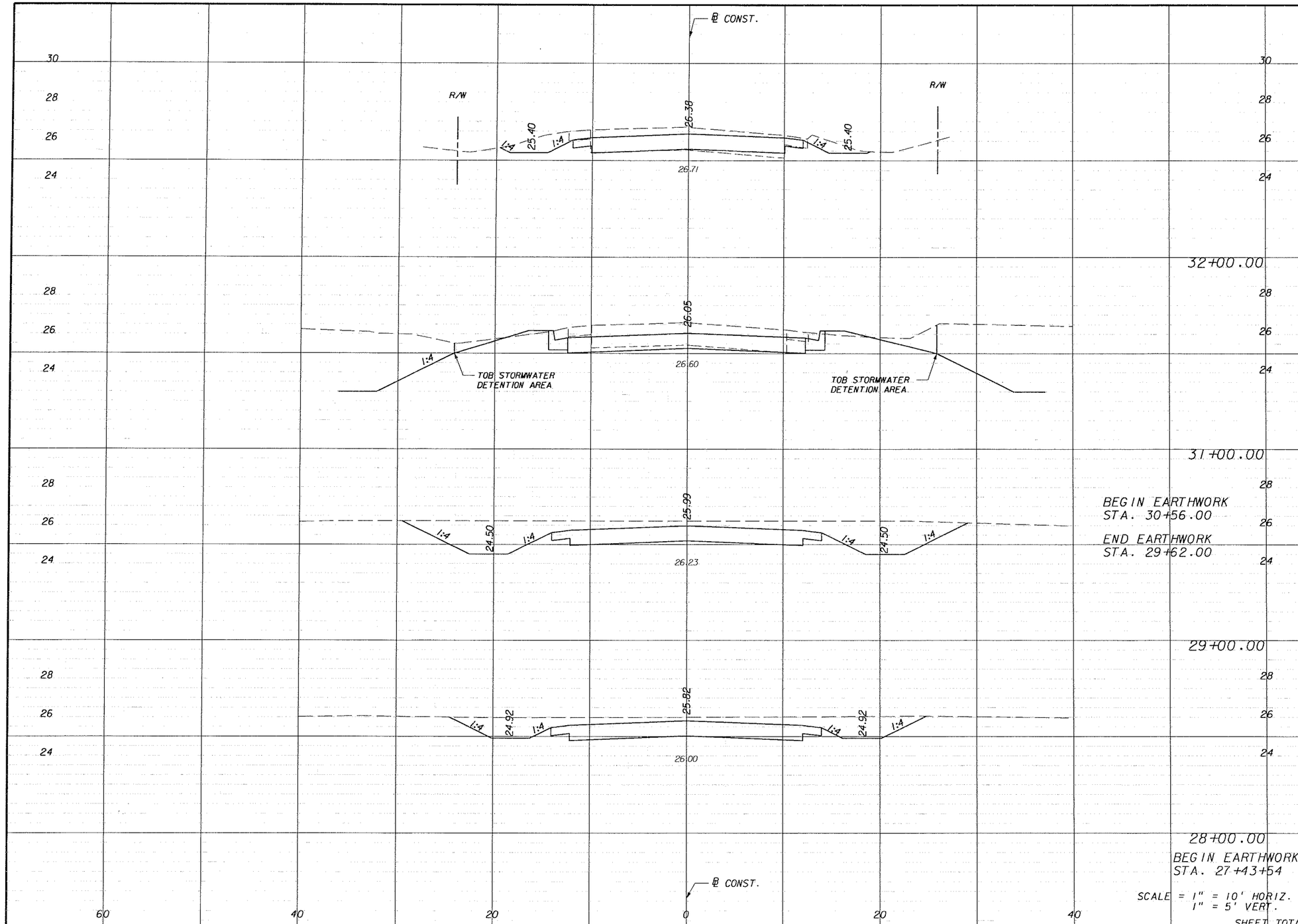

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
31.8		0.0	
	135		2
40.9		1.2	
	33		1
0.0		0.0	
			5
0.0		0.0	
	78		0
67.9		0.0	
	213		0
47.0		0.0	
	49		0
0.0		0.0	
SHEET TOTAL	508		3

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC. INC. ENGINEERS JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane Bldg. 80 Fort Myers, FL 33907 EB-4464 (239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
8TH STREET S.W.

SHEET NO. 185

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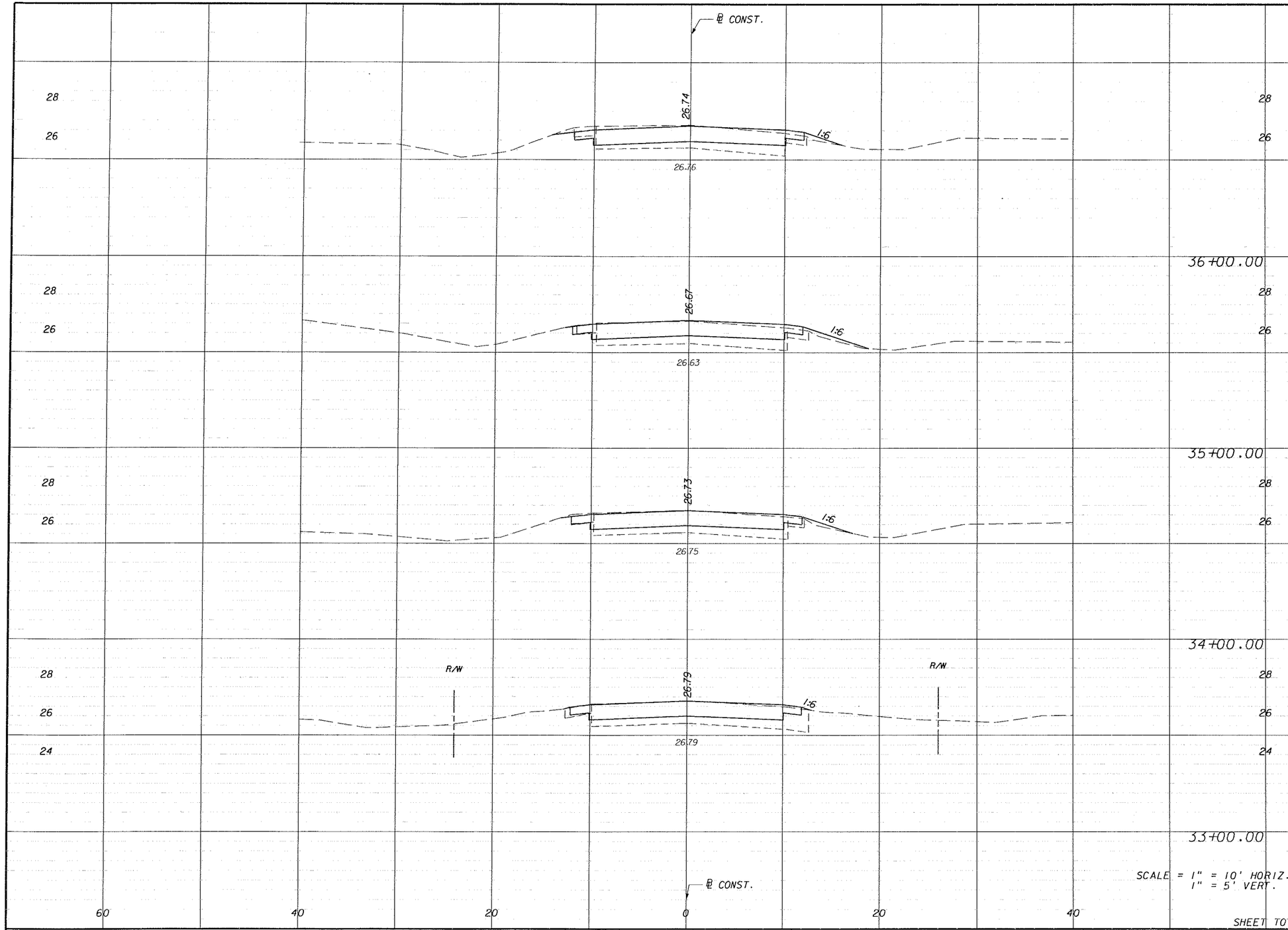

Regular Exc.		Embankment	
A	V	A	V
18.5		0.6	
	65		3
16.3		1.0	
	63		3
17.5		0.6	
	64		1
17.1		0.1	
	91		0
SHEET TOTAL	283		7

SCALE = 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIDNEY • MARTINSTEIN & ASSOC. INC.
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CROSS SECTIONS
8TH STREET S.W.

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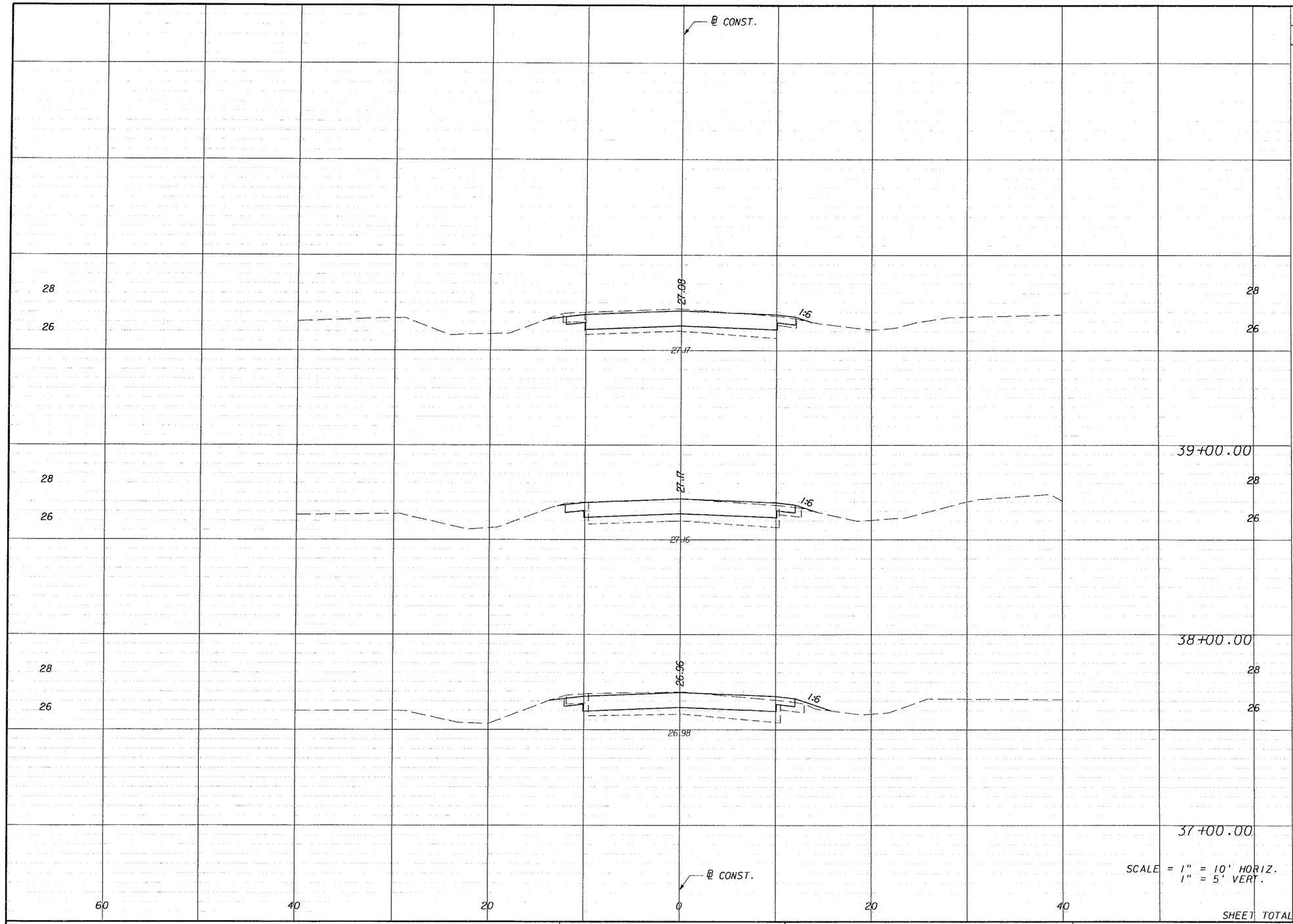

Regular Exc.		Embankment	
A	V	A	V
19.2		0.1	
	67		0
16.8		0.1	
	64		1
17.5		0.5	
	67		2
SHEET TOTAL	198		3

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY HARTMAN & ASSOC. INC.
ENGINEERS
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LEE COUNTY
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CROSS SECTIONS
8TH STREET S.W.

SHEET NO. 187

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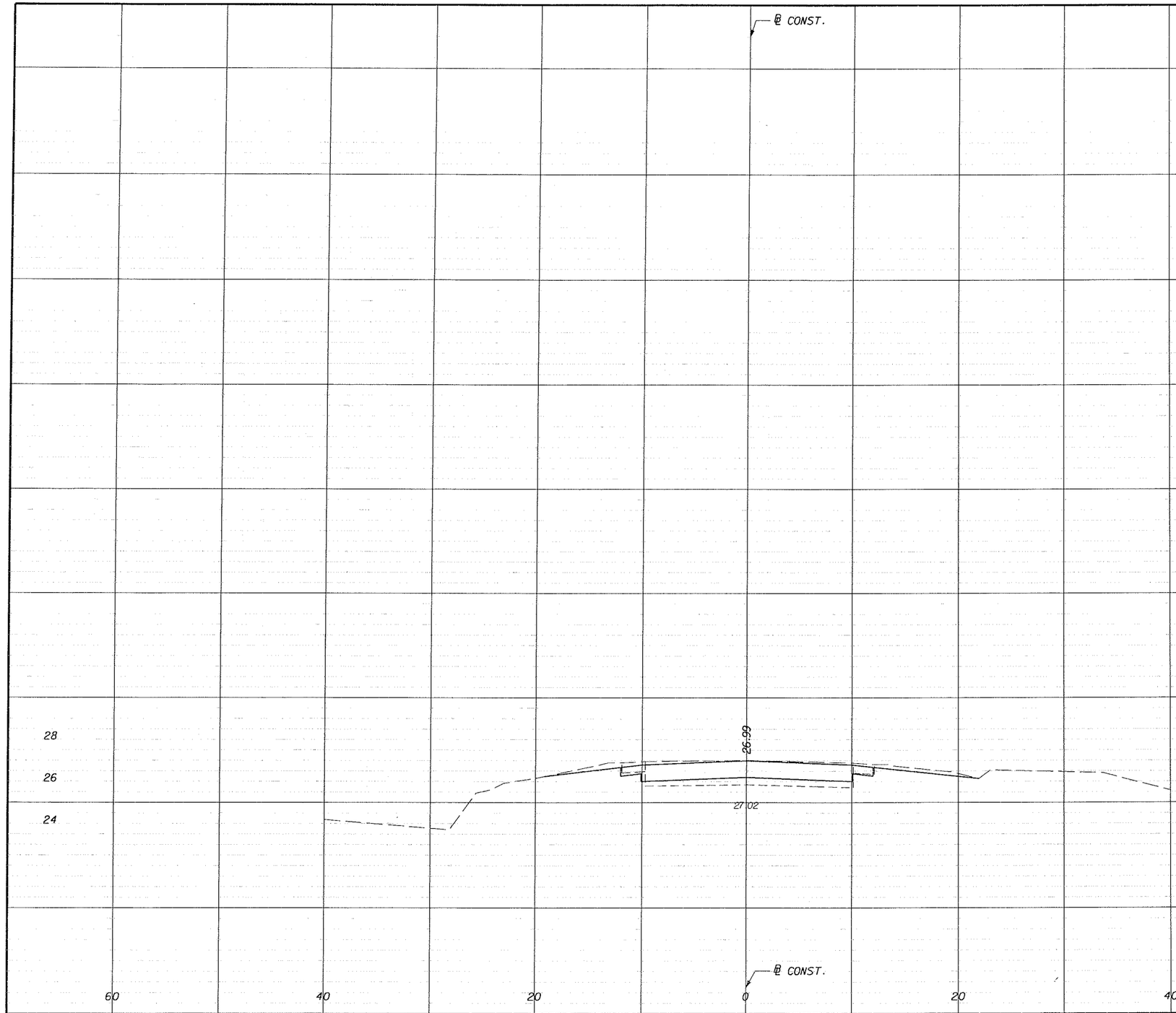

	Regular Exc.		Embankment	
	A	V	A	V
	0.0		0.0	
		8		0
	22.4		0.0	
		77		0
SHEET TOTAL		85		0
8th STREET S.W. TOTAL		1074		13

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEGANOV-HARTENSTEIN & ASSOC., INC.
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
8TH STREET S.W.

SHEET NO. 188

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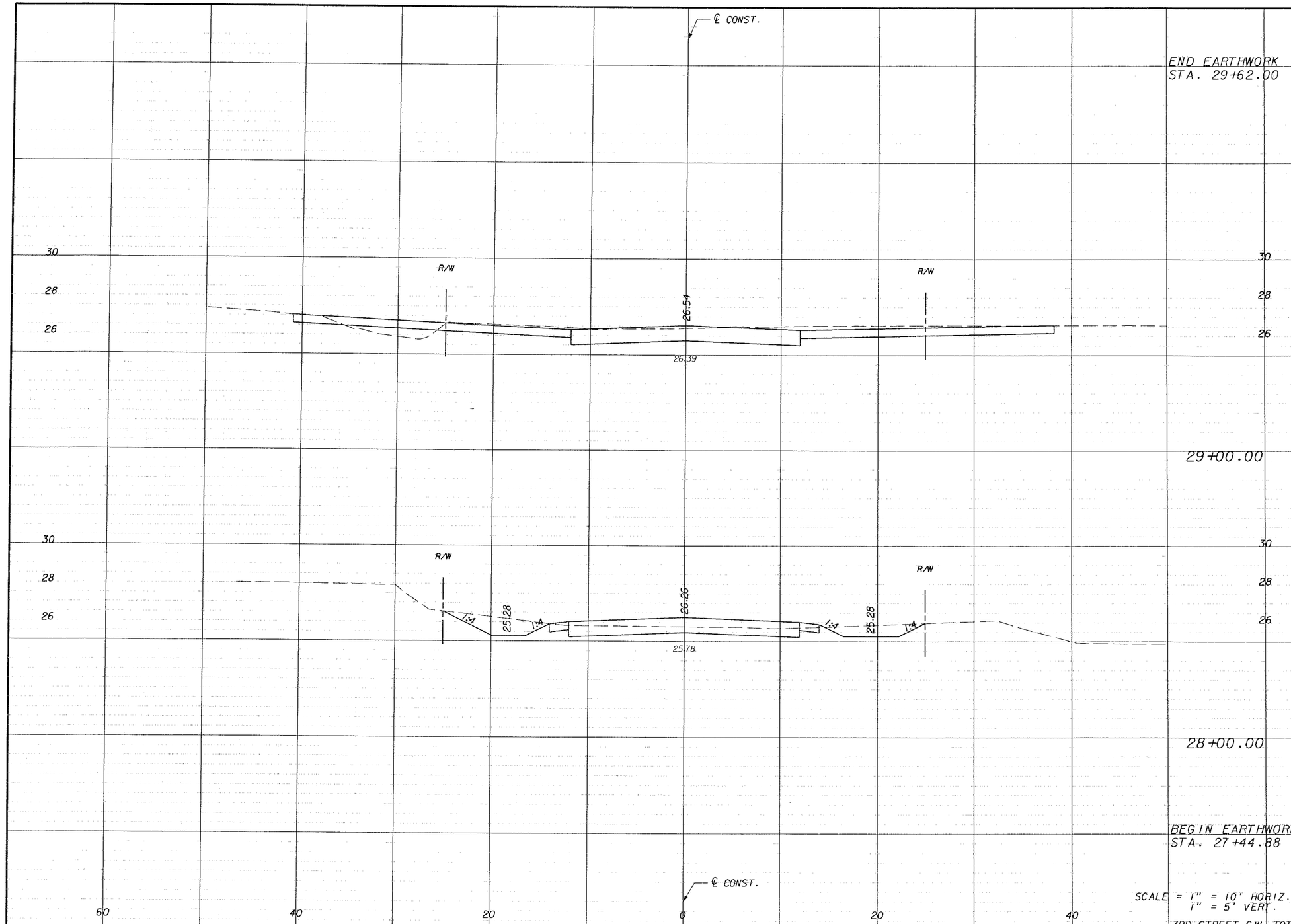

Regular Exc.		Embankment	
A	V	A	V
0.0		0.0	
	47		4
40.9		3.2	
	117		6
22.4		0.0	
	23		0
0.0		0.0	
3RD STREET S.W. TOTAL	187		10

SCALE = 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEEBLES HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

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LEE COUNTY
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS
3RD STREET S.W.

SHEET NO.
189

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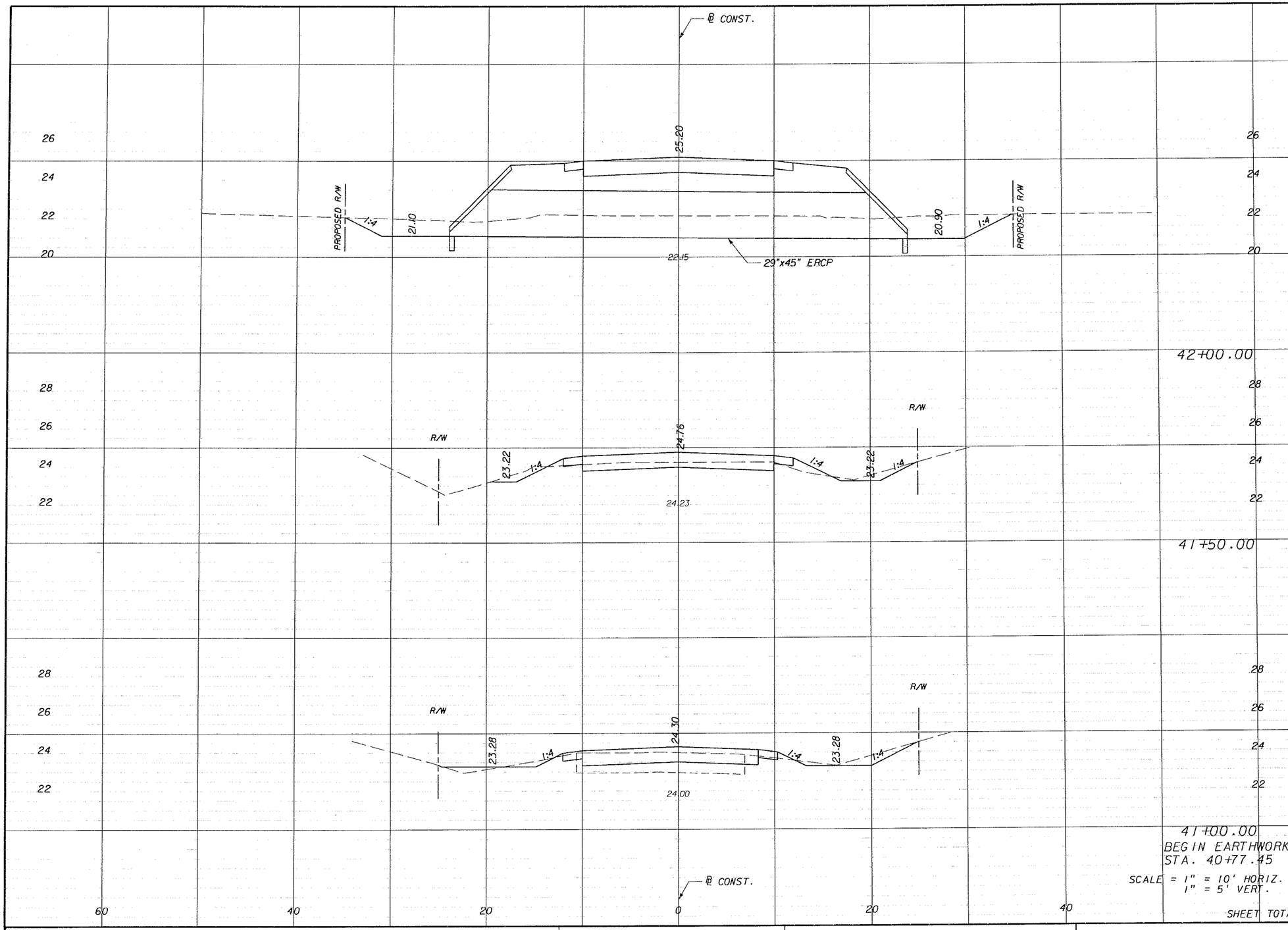

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
18.5		39.6	
	27		39
10.4		1.7	
	23		3
14.6		1.4	
	6		1
0.0		0.0	
SHEET TOTAL	56		43

REVISIONS					
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CROSS SECTIONS
3RD STREET WEST

SHEET NO. 190

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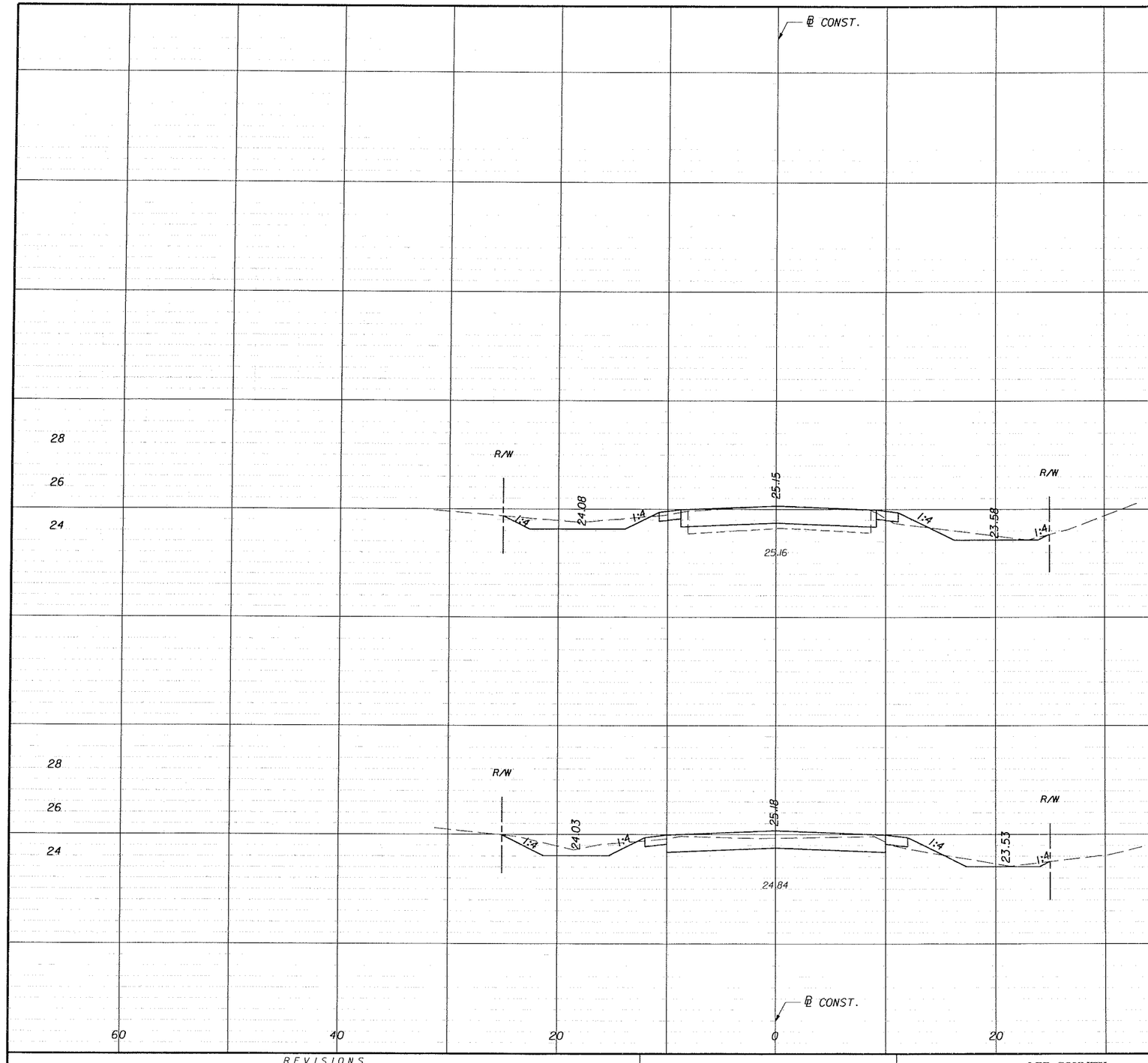

	Regular Exc.		Embankment	
	A	V	A	V
END EARTHWORK STA. 43+16.72	0.0		0.0	
		7		0
	21.3		0.8	
43+00.00		36		2
	18.0		1.0	
42+50.00		34		38
SCALE = 1" = 10' HORIZ. 1" = 5' VERT.				
SHEET TOTAL		77		40
3RD STREET WEST TOTAL		133		83

REVISIONS

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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	lee	99012.201

CROSS SECTIONS 3RD STREET WEST

SHEET NO. 191

09/13/2005 07:37:57 AM P:\99012.201\cadd\roadway\rdxsrd02.shg

STORM WATER POLLUTION PREVENTION PLAN GUNNERY ROAD FROM SR 82 TO LEE BLVD LEE COUNTY

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY
THE PROPOSED IMPROVEMENTS TO GUNNERY RD. EXTEND FROM NORTH OF SR 82 TO SOUTH OF LEE BLVD. LEE COUNTY. THE PROPOSED PROJECT IS APPROXIMATELY 2.2 MILES LONG. LEE COUNTY DEPARTMENT OF TRANSPORTATION PROPOSES TO RECONSTRUCT GUNNERY RD. FROM AN EXISTING TWO-LANE RURAL ROADWAY WITH AT GRADE INTERSECTIONS TO A FOUR-LANE DIVIDED ROADWAY. THE PROJECT IS DIVIDED INTO 8 DRAINAGE BASINS. STORMWATER TREATMENT AND ATTENUATION WILL BE PROVIDED BY DRY DETENTION.

(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER. APPLICABLE EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES 100 THROUGH 106. THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION CONTROL DEVICES FROM THE CONTRACTOR.

(3) GENERAL NOTES:
(a) ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
(b) INSTALL SILT FENCE WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
(c) PROVIDE HAY BALES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN FOR DITCH BLOCKS DURING CONSTRUCTION.
(d) PROVIDE ROCK BAGS AT INLET OPENINGS.
(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
(f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS ESTABLISHED.

(4) PROJECT AREAS
THE ESTIMATED TOTAL PROJECT AREA IS 38 ACRES. THE ESTIMATED AREA BE DISTURBED CONSTRUCTION ACTIVITIES IS 38 ACRES.

(5) RUN-OFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION:
RUN-OFF COEFFICIENT FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw(B) = 0.4 DURING: Cw(D) = 0.5 AFTER: Cw(A) = 0.6

THE RUN-OFF COEFFICIENT DURING CONSTRUCTION, 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.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE
THE SOILS WITHIN THE PROJECT ARE AS FOLLOWS:
8% PINEDA FINE SAND
12% FELDA FINE SAND
35% MALABAR FINE SAND
45% OLDSMAR FINE SAND
ALL OF THE SOILS ARE TYPE B/D WITH A DEPTH TO THE SEASONAL HIGH WATER TABLE OF APPROXIMATELY 1.0 FEET.

(7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:
(a) SITE MAP: TO BE INCLUDED WITH THESE SHEETS
(b) DRAINAGE MAP (WHEN AVAILABLE) : TO BE INCLUDED WITH THESE SHEETS

(8) RECEIVING WATERS:
OFFSITE RUNOFF FROM THE EAST IS ACCEPTED INTO THE STORMWATER DETENTION SYSTEMS. OFFISITE RUNOFF FROM THE WEST IS CONVEYED TO THE EXISTING EAST COUNTY WATER CONTROL DISTRICT CANAL SYSTEM. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE RECEIVING WATERS.

(9) THE OUTFALLS ARE NOT 303(d) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS), TURBIDITY, AND SETTLEABLE SOLIDS.

(10) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)
(a) BASINS 1&2 LAT 26"35'30" LONG 82"42'45"
(b) BASINS 3&4 LAT 26"36'00" LONG 82"42'45"
(c) BASINS 5&6 LAT 26"36'30" LONG 82"42'45"
(d) BASINS 7&8 LAT 26"37'00" LONG 82"42'45"

(11) OTHER SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)
(a) PRESENTLY, EXISTING DRAINAGE FLOWS ARE TYPICALLY CAPTURED BY ROADSIDE SWALES AND ARE ROUTED THE ECWCD CANAL SYSTEM. FOR PROPOSED CONDITIONS, ON-SITE FLOWS ARE DIRECTED TO THE SHALLOW DETENTION PONDS, WHICH DISCHARGE TO THE ECWCD CANAL SYSTEM. THE EXISTING DRAINAGE PATTERNS FOR THE OFF-SITE FLOW WILL NOT BE MODIFIED OR AFFECTED BY THE ADDITION OF THE ROADWAY IMPROVEMENTS.

(b) OFF-SITE RUN-OFF 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.

(c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

(d) THE STORMWATER SHALL BE CONVEYED TO ONE OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES (TREATMENT AND ATTENUATION PONDS). THE PROPOSED PONDS SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY AS TEMPORARY SEDIMENT BASINS.

II. CONTROLS:
EROSION AND SEDIMENT CONTROLS

(1) WATER QUALITY MONITORING SHALL BE CONDUCTED BY THE PROJECT ENGINEER UPON THE OBSERVATION THAT THE WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS SHALL BE DESIGNATED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29NTU'S ABOVE BACKGROUND). MONITORING OF WATER QUALITY SHALL BE CONDUCTED A MINIMUM OF TWICE DAILY FOR ANY EARTHWORK ACTIVITIES WITHIN THE STRUCTURE IMPROVEMENT AREA. MONITORING WILL BE ACCOMPLISHED BY RECORDING TURBIDITY READINGS FROM THE CENTER OF THE STREAM, ONE (1) UPSTREAM OF THE ACTIVITY AND ONE (1) DOWNSTREAM OF THE EROSION CONTROL DEVICES. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY AND EROSION CONTROL DEVICES RE-EVALUATED BY THE PROJECT MANAGER 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 (29NTU'S ABOVE BACKGROUND). WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
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STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. 192

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(2) STABILIZATION PRACTICES

STABILIZATION MEASURES, SUCH AS SODDING OR SEEDING OF SIDE SLOPES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE SHALL THE TIME BE GREATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES.

(3) STRUCTURAL PRACTICES INCLUDE:

(a) SILT FENCES
(b) HAY BALES
(c) ROCK BAGS
(d) SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS
(e) FLOATING TURBIDITY BARRIER
(f) STAKED TURBIDITY BARRIER

(4) SILT FENCE LOCATIONS:

(a) SILT FENCE SHALL BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE EXISTING GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFFSITE. SILT FENCES SHOULD ONLY BE USED IF:
(1) WETLANDS OR WATERS OF THE U.S. ARE INVOLVED
(2) IF UNDISTURBED VEGETATION OUTSIDE LIMITS OF CONSTRUCTION ARE NOT ADEQUATE TO FILTER RUN-OFF.
(b) STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.

(5) HAY BALE LOCATIONS:

GENERALLY, HAY BALES SHALL BE INSTALLED AT PROPOSED MEDIAN INLET LOCATIONS AND AS DITCH BLOCKS TO AVOID DOWNSTREAM SILTATION. DITCH BLOCKS SHOULD BE LOCATED APPROXIMATELY EVERY 300 FEET OR 90 M.

(6) ROCK BAG LOCATIONS:

GENERALLY, ROCK BAGS SHALL BE INSTALLED FOR THE PURPOSE OF CONTROLLING SILTATION AT CURB AND GUTTER INLETS WHERE ONE CAN NOT DRIVE A STAKE.

(7) CONSTRUCTION ENTRANCES/EXITS:

SOIL TRACKING PREVENTION DEVICES (INDEX 106) SHALL BE PROVIDED FOR BOTH ON-SITE AND OFF-SITE LOCATIONS OF STOCKPILED OR EXCAVATED MATERIAL, INCLUDING PROPOSED POND SITES. IF IMMEDIATELY ADJACENT TO A PUBLIC ROADWAY. THE ENGINEER SHALL BE RESPONSIBLE FOR MODIFYING THE SYSTEM OR PROCEDURES AS NEEDED

(8) TURBIDITY BARRIER LOCATION:

(a) STAKED TURBIDITY BARRIER IS TO BE USED AT AREAS WHERE PERMANENT WATER BODIES ARE LESS THAN 0.91M (3FT) DEEP.

III. OTHER CONTROLS:

(1) WASTE DISPOSAL

(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
(c) NO SOILD MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.
(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

(A) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES
(B) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY

(3) STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

SFWMD, USACOE, EAST COUNTY WATER CONTROL DISTRICT.

(4) APPLICATION OF FERTILIZERS AND PESTICIDES

FERTILIZERS AND PESTICIDES WILL BE USED ON THIS PROJECT IN ACCORDANCE WITH "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTIONS 570, 575, OR 577, AT THE DISCRETION OF THE CONTRACTOR WITH THE COORDINATION OF THE PROJECT ENGINEER.

(5) NON-STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE LEE COUNTY DOT WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT RAY NOTTINGHAM, DISTRICT CONTAMINATION IMPACT COORDINATOR AT (863) 519-2515.

IV. MAINTENANCE

(1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED.

(2) INSTALLATION, MAINTENANCE, REPAIR AND REMOVAL REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES OR THE LUMP SUM COST OF THE PROJECT.

(3) THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS: GENERAL - ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(4) STRUCTURAL PRACTICES - BUILD UP SEDIMENT WILL BE REMOVED FROM SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE HALF OF THE HEIGHT OF THE FENCE. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. HAY BALES SHALL BE REPLACED EVERY THREE (3) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER FLOW OR DRAINAGE. SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULLNESS OF THE STRUCTURE.

V. INSPECTION:

(1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH NPDES PERMIT NO. FLR 100000. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.

(2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

VI. TRACKING AND REPORTING:

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

(2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVISES OR LUMP SUM COST OF THE PROJECT.

(3) THE CONTRACTOR SHALL USE THE CONSTRUCTION INSPECTION REPORT (FORM) FOR DAILY INSPECTIONS.

REVISIONS					
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STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. 193

09/13/2005 07:38:05 AM P:\99012.201\cadd\roadway\swpppr01.dgn

GENNERAL NOTES

1. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC CONTROL PLANS SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (600 SERIES), AND THE FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (2004).

2. THE TRAFFIC CONTROL PLANS ARE INTENDED AS A GUIDE. THE CONTRACTOR HAS THE OPTION TO SUBMIT ALTERNATIVE PLANS FOR REVIEW AND APPROVAL BY THE ENGINEER AND BY THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PRIOR TO IMPLEMENTATION. ALTERNATIVE PLANS SHALL BE SIGNED AND SEALED BY AN ENGINEER, REGISTERED IN THE STATE OF FLORIDA, WHO HAS COMPLETED A COURSE IN THE PREPARATION OF TRAFFIC CONTROL PLANS ACCEPTABLE TO THE FLORIDA DEPARTMENT OF TRANSPORTATION.

3. THE CONTRACTOR SHALL UTILIZE INDEX NO. 623 AND 625 WHENEVER CONSTRUCTION EQUIPMENT IS RELOCATED AND/OR DRIVEN ON EXISTING OPEN TRAVEL LANES,

4. ARROWS IN TRAFFIC CONTROL PLANS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS.

5. INSTALL AND REMOVE OR REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611.

6. THE CRITERIA AS OUTLINED IN THE "MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNALS AND DEVICES", SHALL BE ADHERED TO FOR ALL SIGNALS, BOTH PERMANENT AND TEMPORARY.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND EFFICIENT OPERATION OF ALL SIGNALS AND THE SIGNALIZED MOVEMENT OF TRAFFIC WITHIN THE LIMITS OF THE PROJECT. THIS IS TO INCLUDE PROPERLY ALIGNING SIGNAL HEADS, DETERMINING TRAFFIC SIGNAL TIMINGS, AND ADJUSTING SIGNAL TIMINGS AS NECESSARY, DURING EACH PHASE OF CONSTRUCTION. THIS SHALL ALSO INCLUDE MAINTAINING SIGNAL COORDINATION WITH SIGNALS BOTH INSIDE AND OUTSIDE THE PROJECT LIMITS.

8. MODIFICATION TO PERMANENT SIGNAL EQUIPMENT FOR TEMPORARY TRAFFIC MAINTENANCE OF TRAFFIC PHASING SHALL BE ACCOMPLISHED IN A MANNER SO AS NOT TO CAUSE DAMAGE TO POLES OR OTHER SIGNAL EQUIPMENT.

9. THE CONTRACTOR IS TO MAINTAIN ACCESS FOR PEDESTRIANS, PEDESTRIAN CROSSWALKS AND BUS OPERATIONS DURING CONSTRUCTION.

10. ROADWAY EXCAVATION AND WIDENING IN THE MEDIAN AREA ARE RESTRICTED TO AMOUNT TO THAT WHICH CAN BE BROUGHT TO GRADE, IN THE SAME WORK PERIOD, TO COMPLY WITH INDEX 600 DROP-OFF CRITERIA. DRAINAGE CONSTRUCTION IS ALSO RESTRICTED TO THAT WHICH CAN BE BROUGHT TO GRADE IN THE SAME WORK PERIOD TO COMPLY WITH INDEX 600 DROP-OFF CRITERIA. IF ROADWAY DRAINAGE CONSTRUCTION CAN NOT BE COMPLETED IN THE SAME WORK PERIOD, TEMPORARY BARRIER WALL WILL BE REQUIRED PER INDEX 600 DROP-OFF CRITERIA.

11. CONSTRUCTION OF DRAINAGE CROSSINGS WHICH REQUIRE LANE CLOSURES ARE SUBJECT TO LEE COUNTY APPROVAL.

12. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES.

13.

PHASE NOTES :

1. FOR PHASE I-A THRU I-D AND PHASE II-A THRU II-D SEE TRAFFIC CONTROL TYPICAL SECTIONS.

PHASE III :

1. SHIFT SOUTHBOUND TRAFFIC ONTO NEW SOUTHBOUND ROADWAY.

2. FINISH ANY UNCOMPLETED MEDIAN WORK.

3. INSTALL FINAL FRICTION COURSE PER INEX No. 627.

4. INSTALL SIGNING & PAVEMENT MARKING PER THE FINAL SIGNING & PAVEMENT MARKING PLANS.

PHASE IV :

1. 14 DAYS AFTER INSTALLING THE FINAL PAVEMENT MARKINGS (PAINT ONLY), THE FINAL MARKINGS (PAINT ONLY) ARE TO RECEIVE A SECOND PAINTING, NORTHBOUND AND SOUTHBOUND.

2. REMOVE ALL ADVANCE WARNING SIGNING, PER INDEX No. 607.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIRAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TRAFFIC CONTROL PLAN

SHEET NO. 194

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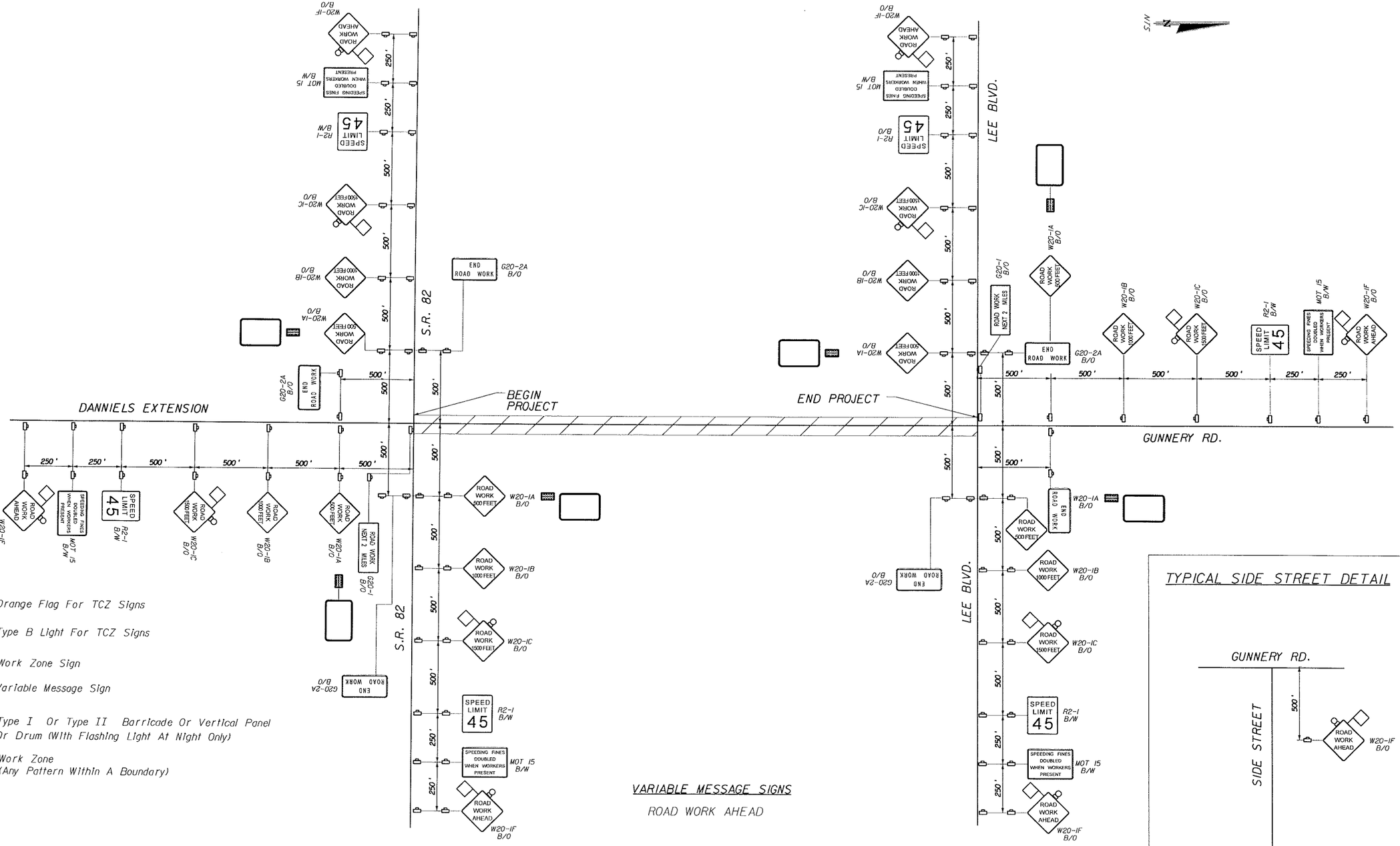

LEGEND

- Orange Flag For TCZ Signs
- Type B Light For TCZ Signs
- Work Zone Sign
- Variable Message Sign
- Type I Or Type II Barricade Or Vertical Panel Or Drum (With Flashing Light At Night Only)
- Work Zone (Any Pattern Within A Boundary)

VARIABLE MESSAGE SIGNS

ROAD WORK AHEAD

TYPICAL SIDE STREET DETAIL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TRAFFIC CONTROL PLAN

SHEET NO. 195

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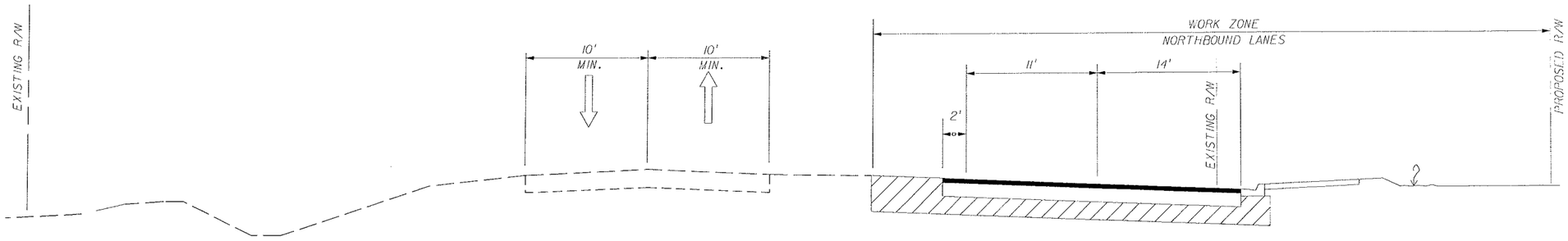
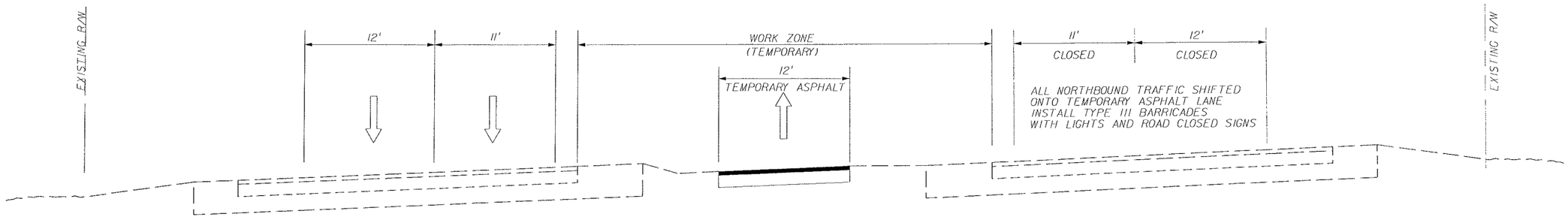


PHASE I-B :

1. CONSTRUCT ON-SITE DRAINAGE; CONSTRUCT NORTHBOUND LANES; INSTALL SHEET PILING AT PROPOSED CONCRETE BOX CULVERT CROSSING STA. 164+00± AND AT PROPOSED CROSS DRAIN STA. 218+00 ±; INSTALL BARRIER WALL ALONG EASTERLY SIDE OF EXISTING NORTHBOUND LANE AT CROSS DRAIN CONSTRUCTION.

PHASE I-B PROJECT LENGTH



PHASE I-A :

1. CLOSE INSIDE NORTHBOUND LANE SOUTH OF S.R. 82, MAINTAIN RIGHT AND LEFT TURN LANE AT S.R. 82. USE INDEX No. 616, MODIFY ADVANCE WARNING SIGNING ACCORDINGLY.
2. CLOSE INSIDE NORTHBOUND LANE NORTH OF S.R. 82 FROM INTERSECTION AHEAD TO STA. 1715+00 ±, MAINTAIN ONE LANE OF TRAFFIC NORTHBOUND.
3. CLOSE INSIDE SOUTHBOUND LANE NORTH OF S.R. 82 FROM STA. 1695+94.44 AHEAD TO STA. 1715+00 ±, MAINTAIN ONE LANE OF TRAFFIC SOUTHBOUND. (TEMPORARY CLOSURE, TO BE REOPENED AFTER NORTHBOUND TRAFFIC IS SHIFTED ONTO TEMPORARY ASPHALT).
4. CONSTRUCT 12' TEMPORARY ASPHALT, FOR PHASE I-A CONSTRUCTION FROM STA. 1695+94.44 AHEAD TO STA. 1709+60 ±.
5. SHIFT NORTHBOUND TRAFFIC ONTO TEMPORARY ASPHALT, INSTALL OUTSIDE LANE SHIFT (TO THE LEFT) FROM S.R. 82 AHEAD TO STA. 1695+94.44 FOR RIGHT HAND TURNING MOVEMENT OFF OF S.R. 82 NORTHBOUND LANE.
6. ALL STRIPING ON EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONSTRUCTION, SHALL BE REMOVABLE TAPE, NOTE, EXISTING STRIPING TO BE REMOVED BY GRINDING OR OTHER METHOD EXCEPTABLE TO THE ENGINEER AND SHALL ONLY BE REMOVED TO THE EXTENTS PRACTICAL TO SHIFT TRAFFIC. ALL OTHER STRIPING SHALL BE TRAFFIC PAINT.

PHASE I-A AT S.R. 82

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ENGINEERS
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TRAFFIC CONTROL PLAN

SHEET NO. 196

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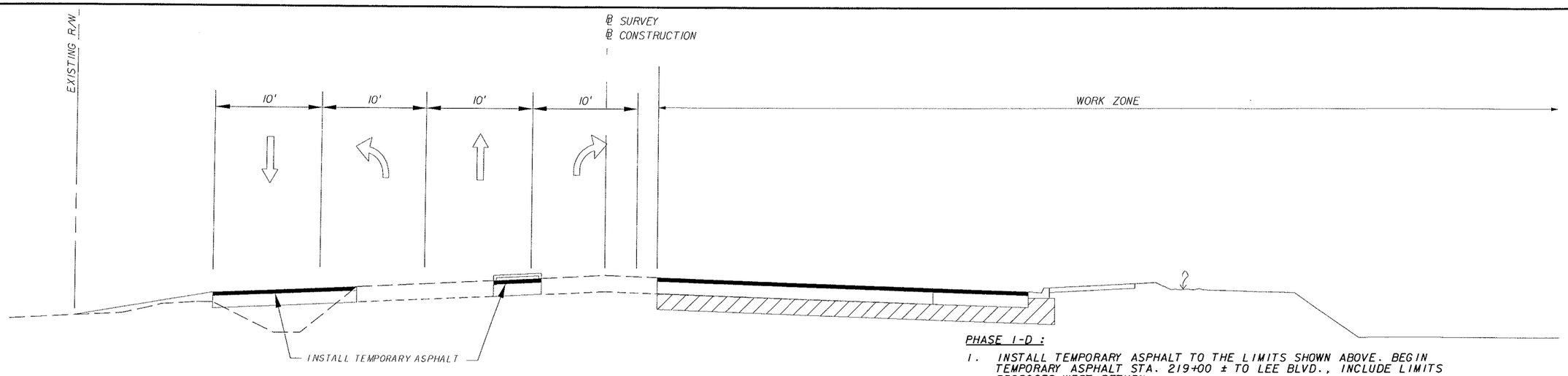
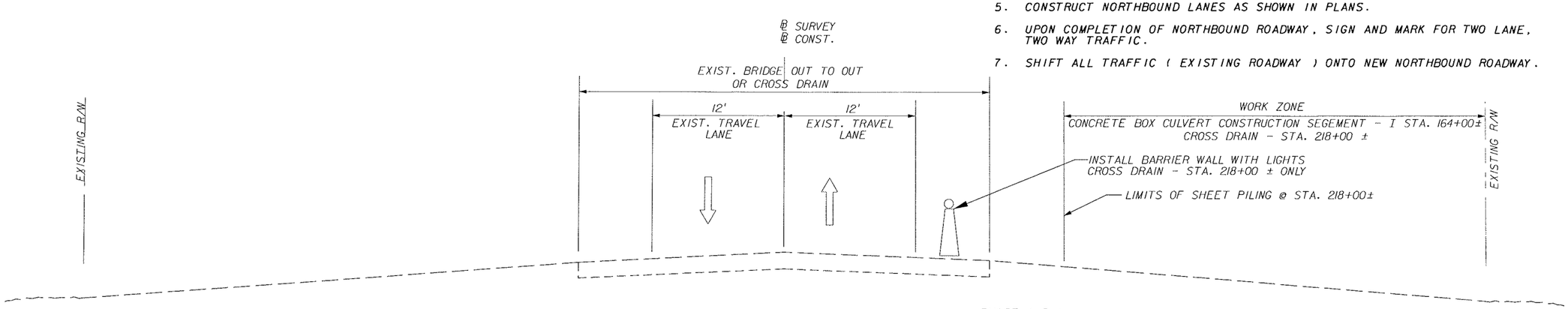


PHASE I-D
AT LEE BLVD.

PHASE I-D :

1. INSTALL TEMPORARY ASPHALT TO THE LIMITS SHOWN ABOVE. BEGIN TEMPORARY ASPHALT STA. 219+00 ± TO LEE BLVD., INCLUDE LIMITS PROPOSED WEST RETURN.
2. SIGN AND MARK PAVEMENT FOR THE CONFIGURATION SHOWN ABOVE, SHIFT TRAFFIC TO LEFT SIDE OF ROADWAY. LEFT AND RIGHT TURNING MOVEMENT STORAGE LENGTHS NOT-TO-EXCEED 250 FT. GORE STRIPE AS NECESSARY TO ACCOMMODATE TYPE III BARRICADES FACING 4th STREET WEST.
3. RE-ALIGN SIGNALS AS NECESSARY TO CONFORM TO TEMPORARY LANE CONFIGURATION.
4. INSTALL TYPE III BARRICADES, TO CLOSE EAST SIDE OF ROADWAY, INSTALL TYPE III BARRICADES FACING 4th STREET WEST, BOTH DIRECTIONS WITH ROAD CLOSED SIGNS AND ONE-WAY ARROW PANELS.
5. CONSTRUCT NORTHBOUND LANES AS SHOWN IN PLANS.
6. UPON COMPLETION OF NORTHBOUND ROADWAY, SIGN AND MARK FOR TWO LANE, TWO WAY TRAFFIC.
7. SHIFT ALL TRAFFIC (EXISTING ROADWAY) ONTO NEW NORTHBOUND ROADWAY.



PHASE I-C :

1. CONSTRUCT CONCRETE BOX CULVERT - SEGMENT - I AT STA. 164.00± AND PORTION OF CROSS DRAIN AT STA. 218+00± UNDER PROPOSED NORTHBOUND ROADWAY.
2. CONSTRUCT LANE SHIFT USING INDEX No. 650. SEE PH. I-D FOR SECTION VIEW.

PHASE I-C
AT EXISTING BRIDGE

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LEE COUNTY
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4055	LEE	99012.201

TRAFFIC CONTROL PLAN

SHEET NO.
197

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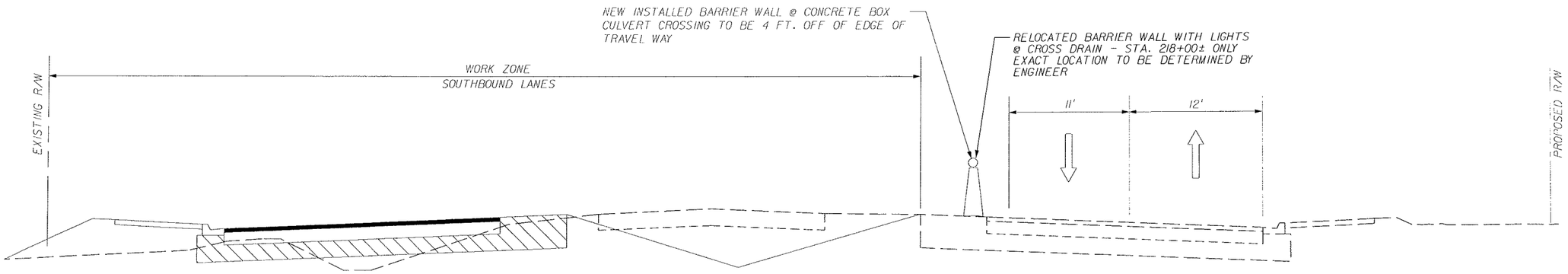
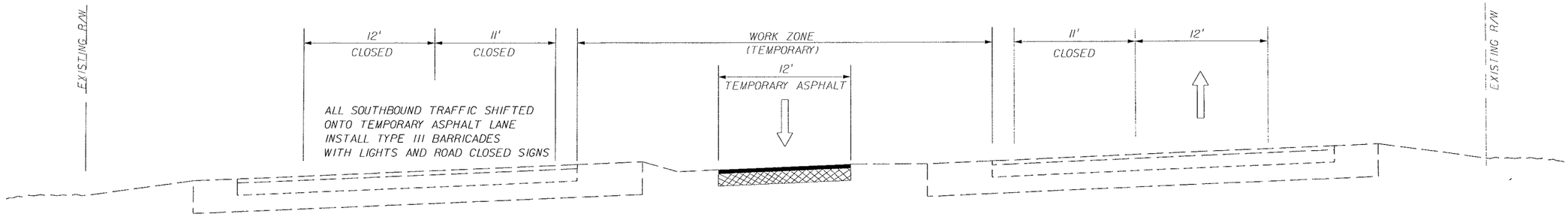


PHASE II-B
PROJECT LENGTH

PHASE II-B :

1. RELOCATE BARRIER WALL TO WESTERLY SIDE OF SOUTHBOUND LANE, AS SHOWN ABOVE @ CROSS DRAIN STA. 218+00±, ALSO INSTALL BARRIER WALL @ CONCRETE BOX CULVERT CROSSING, SAME LOCATION, AS SHOWN ABOVE - STA. 164+00±.
2. CONSTRUCT ANY REMAINING ON-SITE DRAINAGE; CONSTRUCT OFF-SITE DRAINAGE.
3. CONSTRUCT SOUTHBOUND LANES.
4. UPON COMPLETION OF SOUTHBOUND ROADWAY, INSTALL TEMPORARY SIGNING & MARKING PER FINAL SIGNING & MARKING PLANS.



PHASE II-A
AT S.R. 82

PHASE II-A :

1. CLOSE INSIDE SOUTHBOUND LANE NORTH OF S.R. 82 FROM STA. 1695+94.44 AHEAD TO STA. 1715+00±. MAINTAIN ONE LANE OF TRAFFIC SOUTHBOUND.
2. REMOVE TEMPORARY ASPHALT FROM STA. 1695+94.44 TO STA. 1702+00.00 ±, CONSTRUCT 12' TEMPORARY ASPHALT FOR PHASE II-A CONSTRUCTION FROM STA. 1695+94.44 LEFT AHEAD TO STA. 1702+00.00 ± AND RECONNECT TO EXIST. TEMPORARY ASPHALT.
3. SHIFT SOUTHBOUND TRAFFIC ONTO TEMPORARY ASPHALT, INSTALL INSIDE LANE TAPER (LANE CLOSURE) (TO THE RIGHT) FROM STA. 1701+00.00 AHEAD TO STA. 1709+00.00 ', FOR TWO-LANE, TWO-WAY TRAFFIC NORTHBOUND.
4. ALL STRIPING ON EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONSTRUCTION, SHALL BE REMOVABLE TAPE, NOTE, EXISTING STRIPING TO BE REMOVED BY GRINDING,..ETC, SHALL ONLY BE REMOVED TO THE EXTENTS PRACTICAL TO SHIFT TRAFFIC. ALL OTHER STRIPING SHALL BE TRAFFIC PAINT.

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12701 World Plaza Lane
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TRAFFIC CONTROL PLAN

SHEET NO. 198

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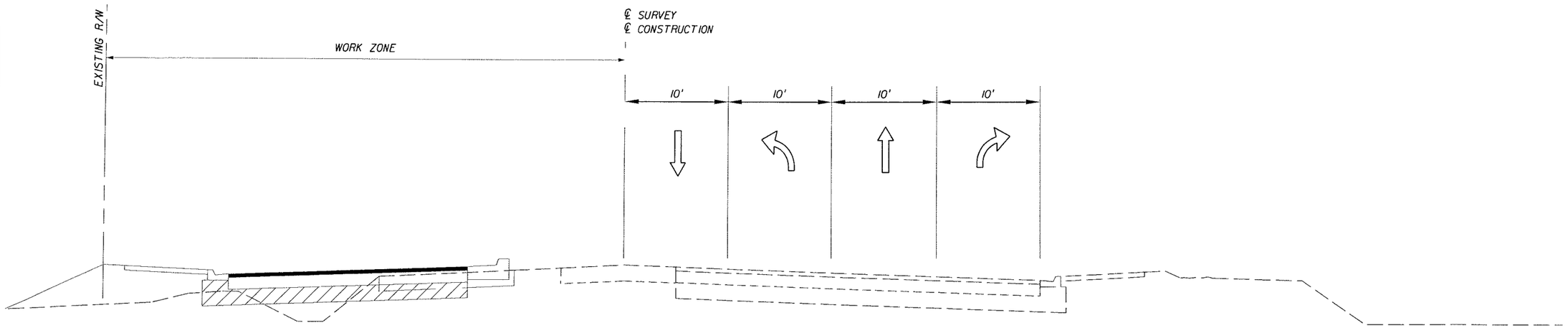


PHASE II-D
AT LEE BLVD.

PHASE II-D

1. SIGN AND MARK PAVEMENT FOR THE CONFIGURATION SHOWN ABOVE, SHIFT TRAFFIC TO EASTERLY SIDE OF ROADWAY. LEFT AND RIGHT TURNING MOVEMENT STORAGE LENGTHS NOT-TO-EXCEED 250 FT. GORE STRIPE AS NECESSARY TO ACCOMMODATE TYPE III BARRICADES FACING 4th STREET WEST.

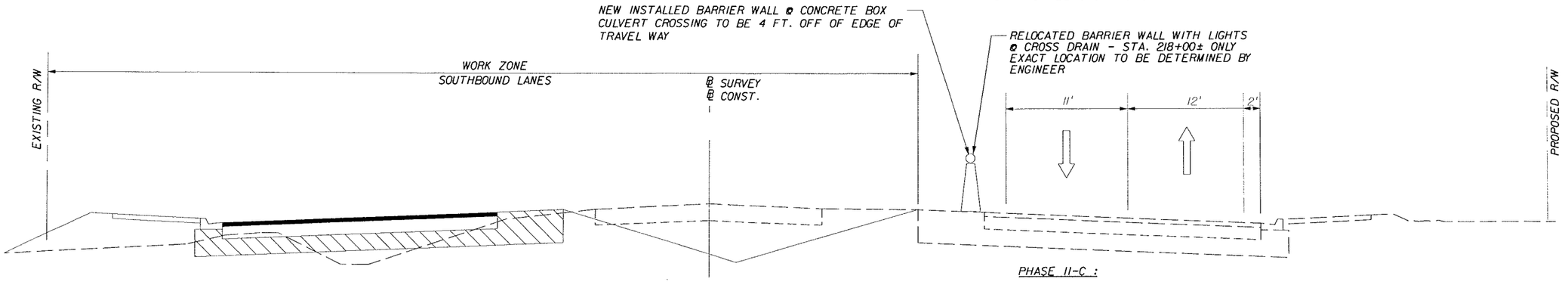
2. RE-ALIGN SIGNALS AS NECESSARY TO CONFORM TO TEMPORARY LANE CONFIGURATION.

3. INSTALL TYPE III BARRICADES FACING 4th STREET WEST, BOTH DIRECTIONS WITH ROAD CLOSED SIGNS AND ONE-WAY ARROW PANELS.

4. CONSTRUCT SOUTHBOUND LANES TO LIMITS SHOWN.

5. INSTALL FINAL FRICTION COURSE FULL LENGTH OF ROADWAY PRIOR TO SHIFTING TRAFFIC ONTO SOUTHBOUND ROADWAY.

6. INSTALL SIGNING & MARKING PER THE FINAL SIGNING & PAVEMENT MARKING PLANS.



PHASE II-C
AT EXISTING BRIDGE &
CROSS DRAIN

PHASE II-C :

1. CONSTRUCT CONCRETE BOX CULVERT - SEGMENT - II EXTENSION STA. 164+00±; CONSTRUCT OFF-SITE DRAINAGE; CONSTRUCT REMAINING CROSS DRAIN - STA. 218+00±; CONSTRUCT SOUTHBOUND ROADWAY.

2. UPON COMPLETION OF SOUTHBOUND ROADWAY, INSTALL SIGNING & MARKING PER FINAL SIGNING & PAVEMENT MARKING PLANS.

REVISIONS					
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ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TRAFFIC CONTROL PLAN

SHEET NO. 199

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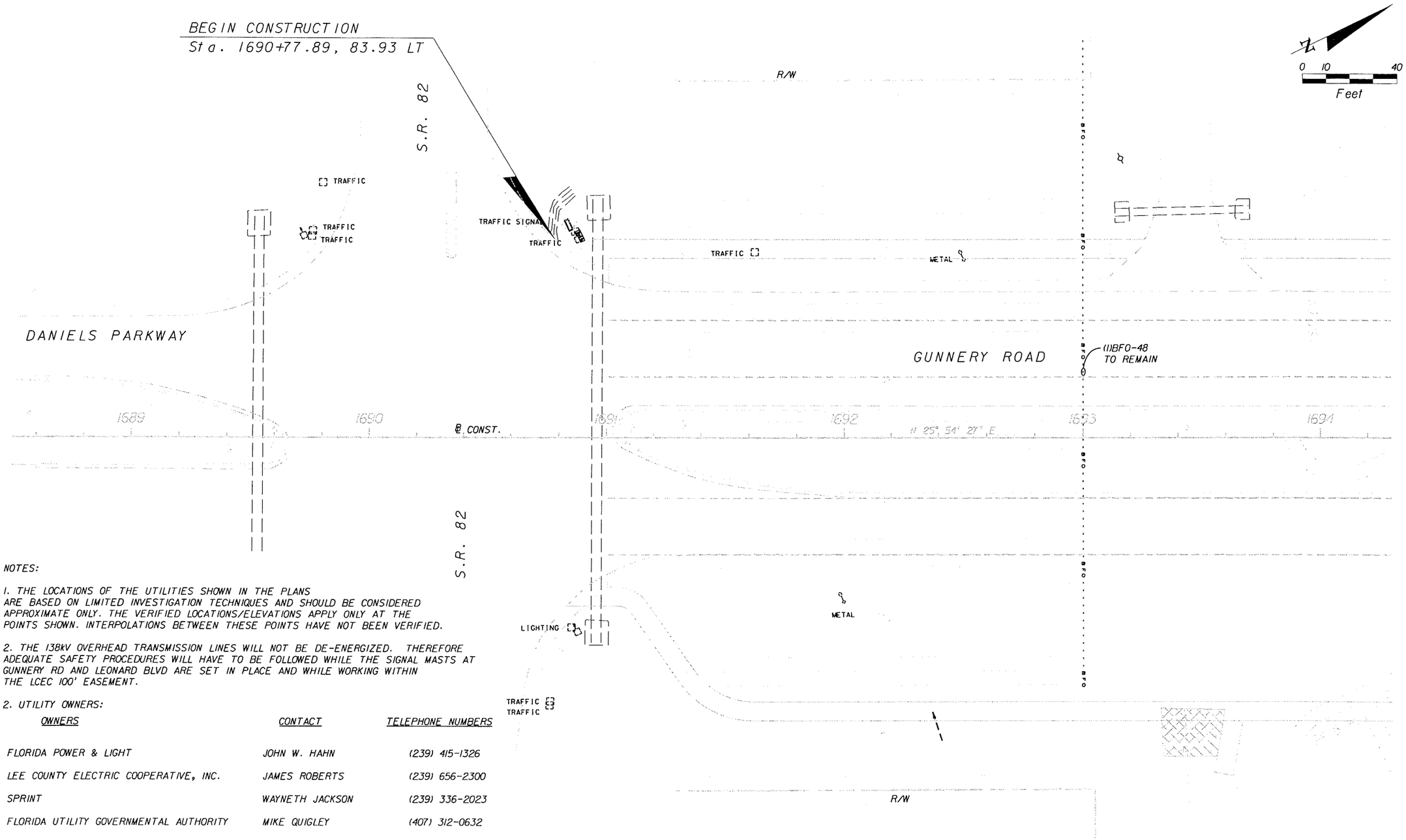

NOTES:

1. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS 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. THE 138KV OVERHEAD TRANSMISSION LINES WILL NOT BE DE-ENERGIZED. THEREFORE ADEQUATE SAFETY PROCEDURES WILL HAVE TO BE FOLLOWED WHILE THE SIGNAL MASTS AT GUNNERY RD AND LEONARD BLVD ARE SET IN PLACE AND WHILE WORKING WITHIN THE LCEC 100' EASEMENT.

2. UTILITY OWNERS:

OWNERS	CONTACT	TELEPHONE NUMBERS
FLORIDA POWER & LIGHT	JOHN W. HAHN	(239) 415-1326
LEE COUNTY ELECTRIC COOPERATIVE, INC.	JAMES ROBERTS	(239) 656-2300
SPRINT	WAYNETH JACKSON	(239) 336-2023
FLORIDA UTILITY GOVERNMENTAL AUTHORITY	MIKE QUIGLEY	(407) 312-0632
COMCAST	BILL STANTON	(239) 432-1861
LEE COUNTY DOT TRAFFIC DIVISION	RICH LISENBEE	(239) 694-7600

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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LEE COUNTY
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 200

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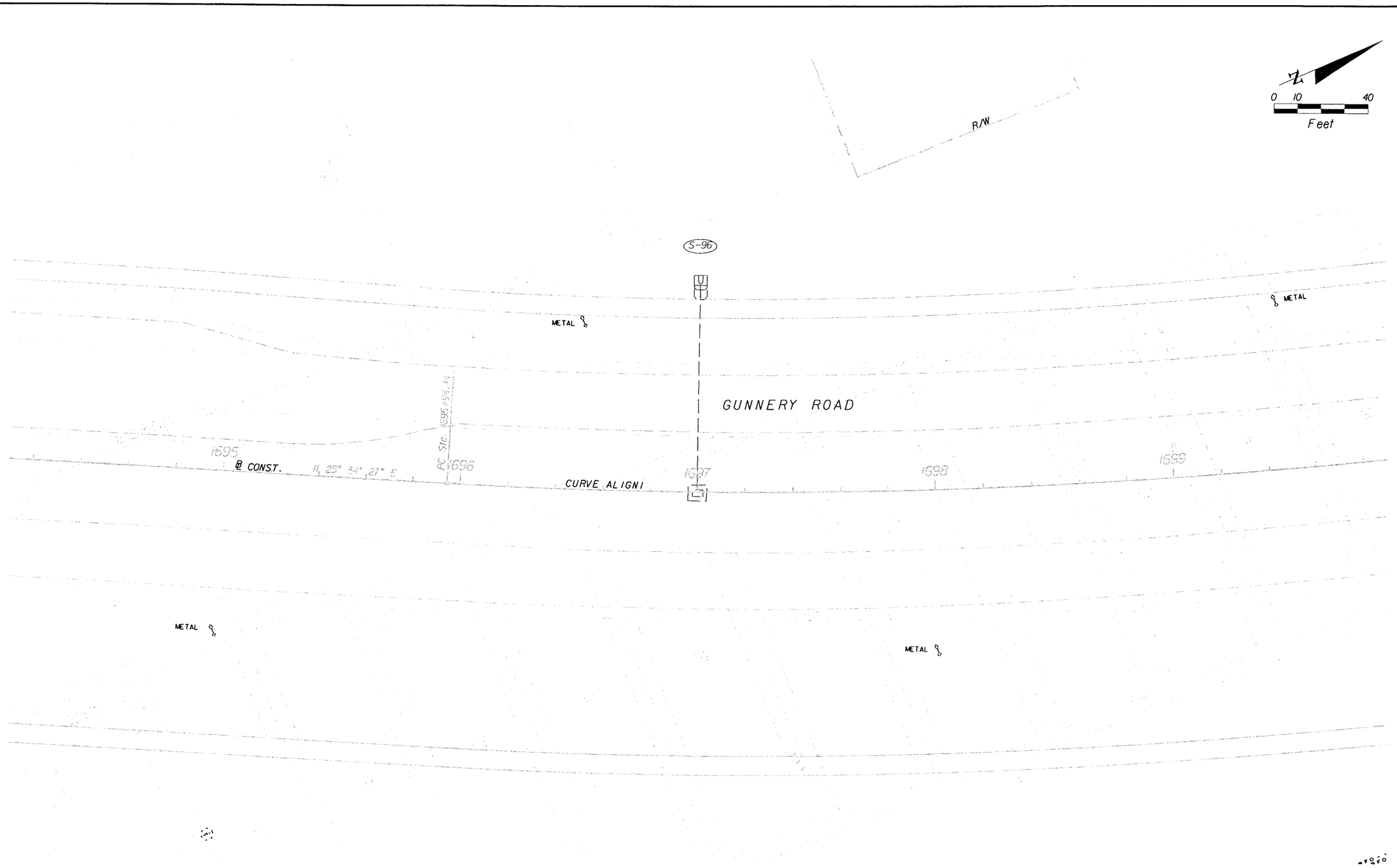

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PITMAN • BARTENSTEIN & ASSOC., INC.
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JACKSONVILLE • FORT MYERS • TAMPA
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 201

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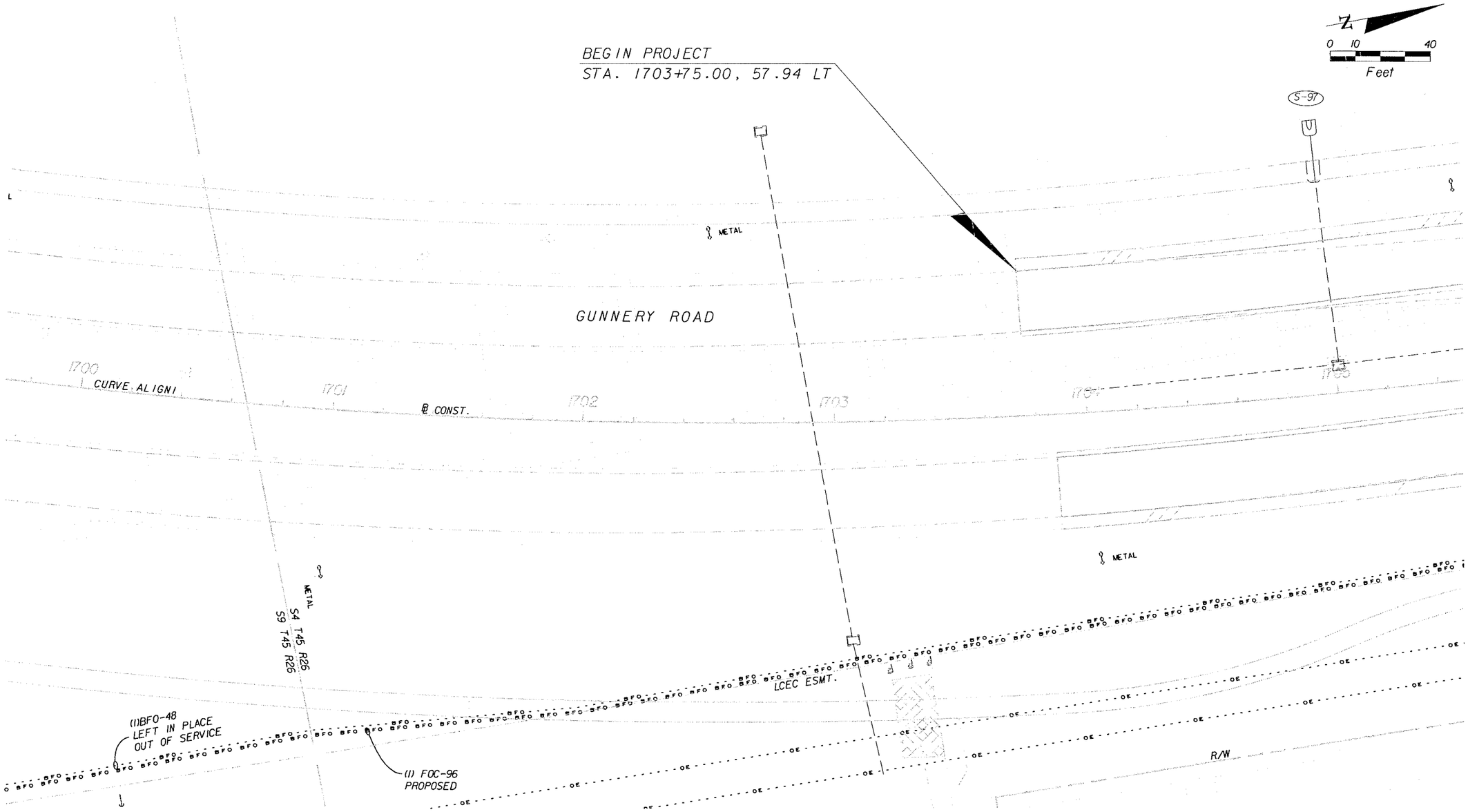

REVISIONS					
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PIHMA HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
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4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 202

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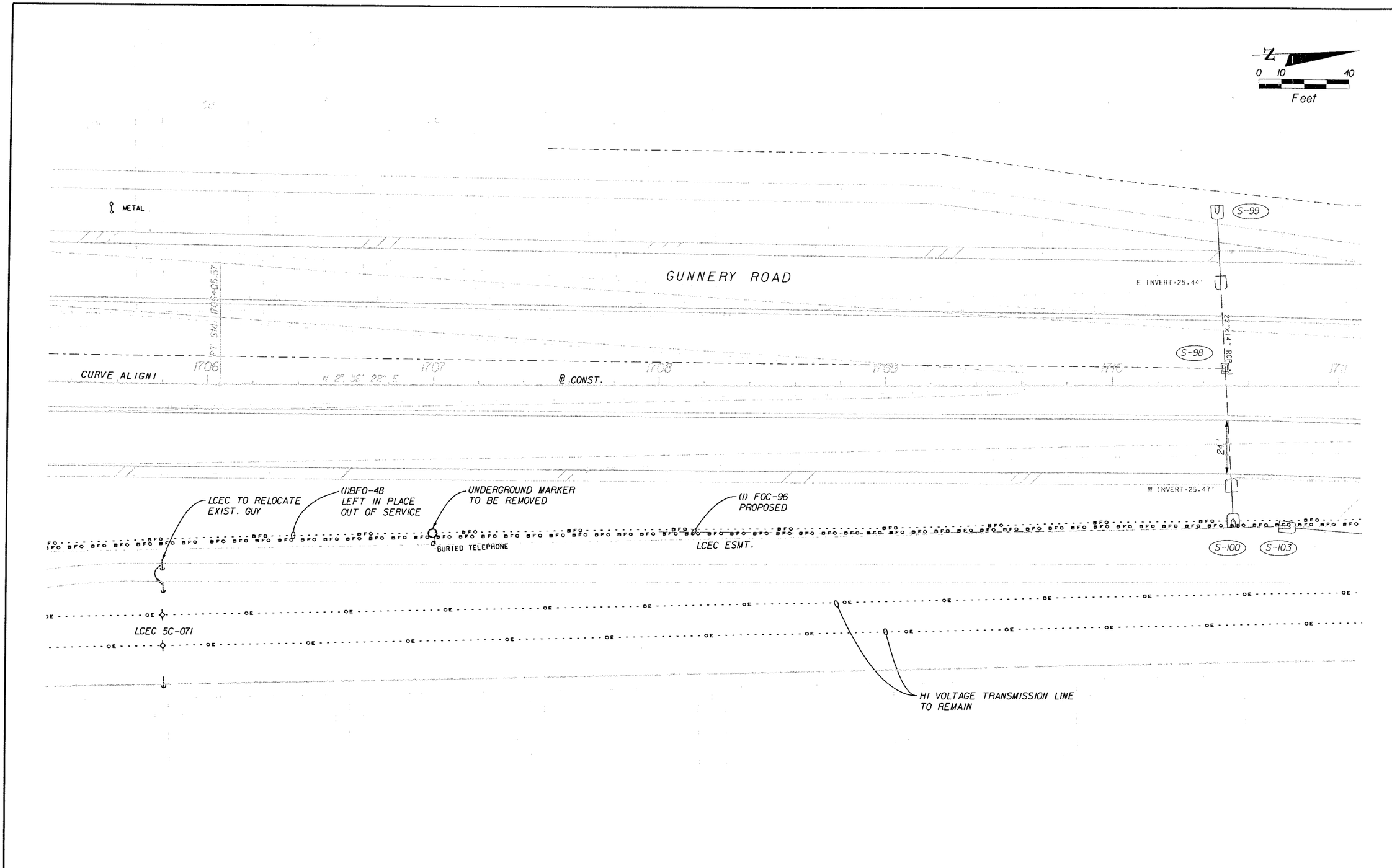

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
203

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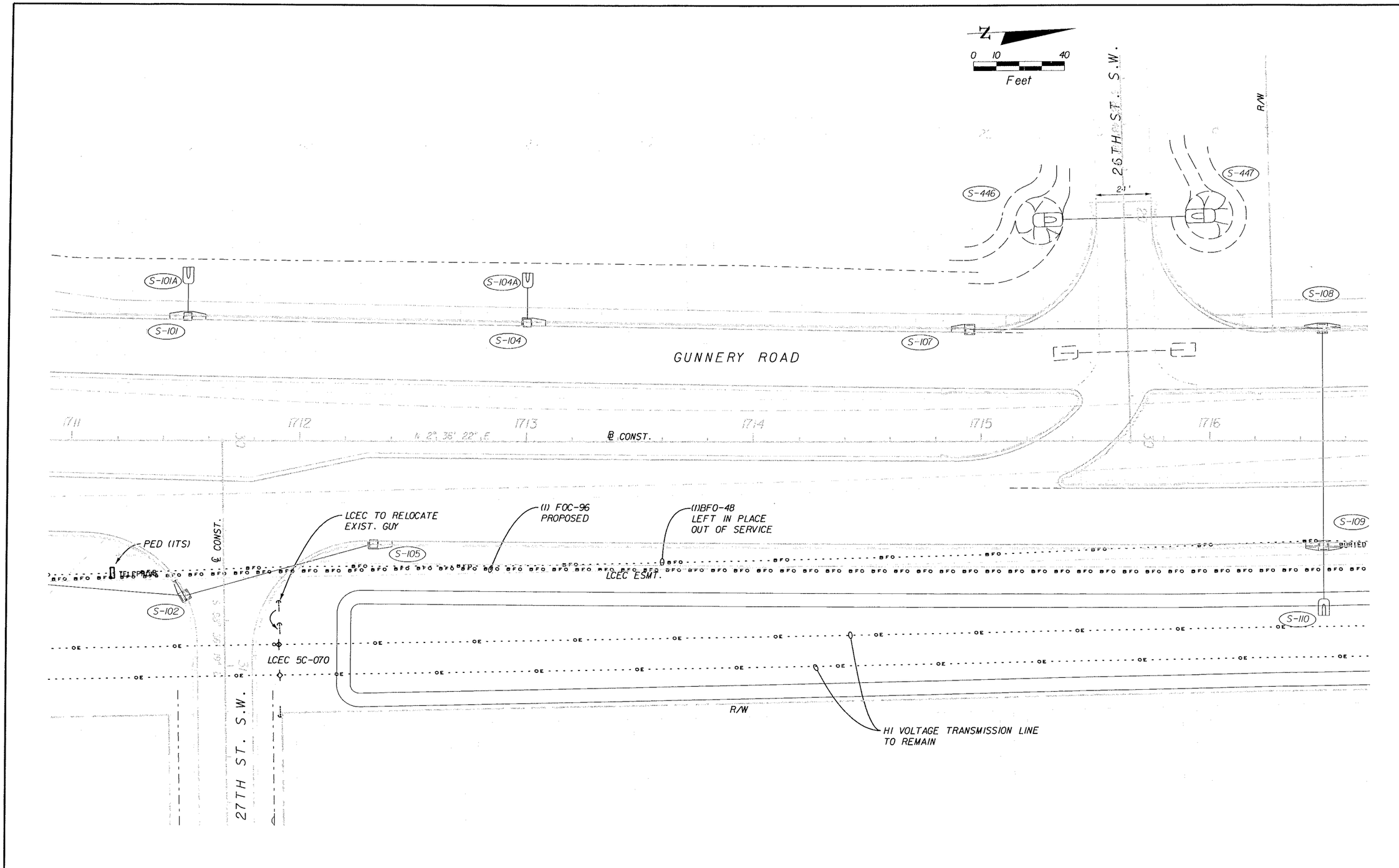

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
204

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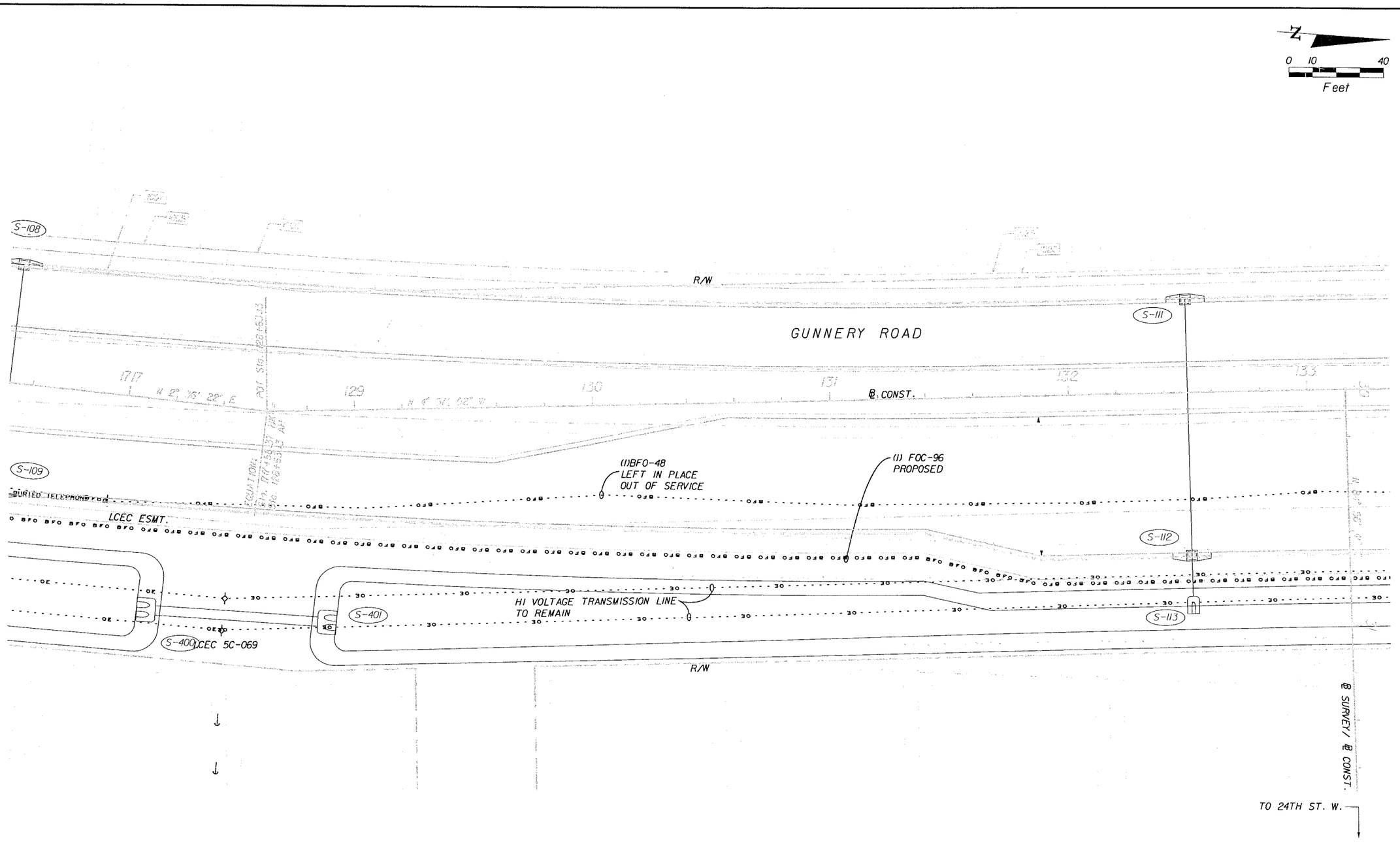

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEERS
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Bldg. 80
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 205

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Feet

(1) BT-600
PROPOSED

(1)BT-25PR
LEFT IN PLACE
OUT OF SERVICE

(1)BT-300PR
LEFT IN PLACE
OUT OF SERVICE
PED
PROPOSED

PED #70919
TO BE REMOVED

LEONARD BLVD.

S-302

S-300

S-303

S-117

S-114

R/W

TELEPHONE

GUNNERY ROAD

Sta. 133+16.18 ℄ CONST. =
Sta. 30+00.00 ℄ SURVEY ℄ CONST.

℄ CONST.

134

N 4° 57' 02" W

135

137

138

R 230'

R 6'

(1)BT-25PR
LEFT IN PLACE
OUT OF SERVICE

(1)BF0-48
LEFT IN PLACE
OUT OF SERVICE

LCEC POLES AND
GUYS TO BE REMOVED
BY LCEC

LCEC ESMT.

(1)BF0-48
LEFT IN PLACE
OUT OF SERVICE

PED #70918
TO BE REMOVED

ELECTRIC

TRAFFIC

TELEPHONE

PED
TO BE REMOVED

TELEPHONE

PULL BOX
TO BE REMOVED

BURIED TELEPHONE

(1) FOC-96
PROPOSED

S-115

(1)BT-25PR
LEFT IN PLACE
OUT OF SERVICE

S-118

S-119

LCEC 5C-068

S-402

S-403

S-116

CS-1

CS-1A

(2) FOC-96
PROPOSED

(1) FOC-12
PROPOSED

R/W

R/W

PROPOSED TRANSMISSION POLE
99' NORTH OF EXIST. POLE
BY LCEC

HI VOLTAGE TRANSMISSION LINE
TO REMAIN

PED
PROPOSED

PED
PROPOSED

CDR VAULT
PROPOSED

(2)BT-50
LEFT IN PLACE
OUT OF SERVICE

(1)BF0-12
LEFT IN PLACE
OUT OF SERVICE

(1)BT-200PR
(1)BT-300PR
LEFT IN PLACE
OUT OF SERVICE

(1) BT-600
PROPOSED

23RD ST. S.W.

℄ SURVEY ℄ CONST. 24TH ST. W.

TO 24TH ST. W.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEPPER HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
206

09/13/2005 07:39:38 AM P:\99012.201\cadd\roadway\utadj07.dgn

N

0 10 40

Feet

POLE (FPL) PROPOSED

POLE (FPL) TO BE REMOVED

OE (FPL) PROPOSED

OE (FPL) TO BE REMOVED

ELECTRIC PED #28743 TO REMAIN

POLE (FPL) TO BE REMOVED R/W

OE (FPL) PROPOSED

POLE (FPL) PROPOSED

OE (FPL) TO BE REMOVED

POLE (FPL) TO REMAIN

OE (FPL) TO REMAIN

TELEPHONE

S-304

S-119A

S-304A

S-120

GUNNERY ROAD

(I)BT-25PR LEFT IN PLACE OUT OF SERVICE

(I) BT-25 PROPOSED

ACE RVICE

T39 T40 T41 T42 T43 T44

N 45° 57' 02" W

℄ CONST.

(I)BFO-48 LEFT IN PLACE OUT OF SERVICE

PED #28741 TO BE REMOVED

TELEPHONE

BURIED TELEPHONE

LCEC ESMT.

LCEC TO RELOCATE EXIST. GUY

S-121

S-122

LCEC 5C-067

S-404

S-119B

PED PROPOSED

S-406

R/W

HI VOLTAGE TRANSMISSION LINE TO REMAIN

(I) BT-25
(I) FOC-96
PROPOSED

21ST STREET S.W.

℄ CONST.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 207

09/13/2005 07:39:45 AM P:\99012.201\cadd\roadway\utadrd08.dgn

N

0 10 40

Feet

'PL)
EMAIN

POLE (FPL)
TO REMAIN

OE (FPL)
TO REMAIN

S-305

S-123

S-306

GUNNERY ROAD

145 146 147 148 149 150

℄ CONST.

(1)BT-25PR
LEFT IN PLACE
OUT OF SERVICE

(1)BT-25PR

(1)BFO-48
LEFT IN PLACE
OUT OF SERVICE

LCEC ESMT.

PED #756
TO BE REMOVED

BURIED TELEPHONE

LCEC TO RELOCATE
EXIST. GUY

S-124

LCEC 5C-066

21ST ST. S.W.

S-407

S-125

S-409

S-408

PED
PROPOSED

R/W

HI VOLTAGE TRANSMISSION LINE
TO REMAIN

(1) BT-25
(1) FOC-96
PROPOSED

℄ CONST.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTKISTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
208

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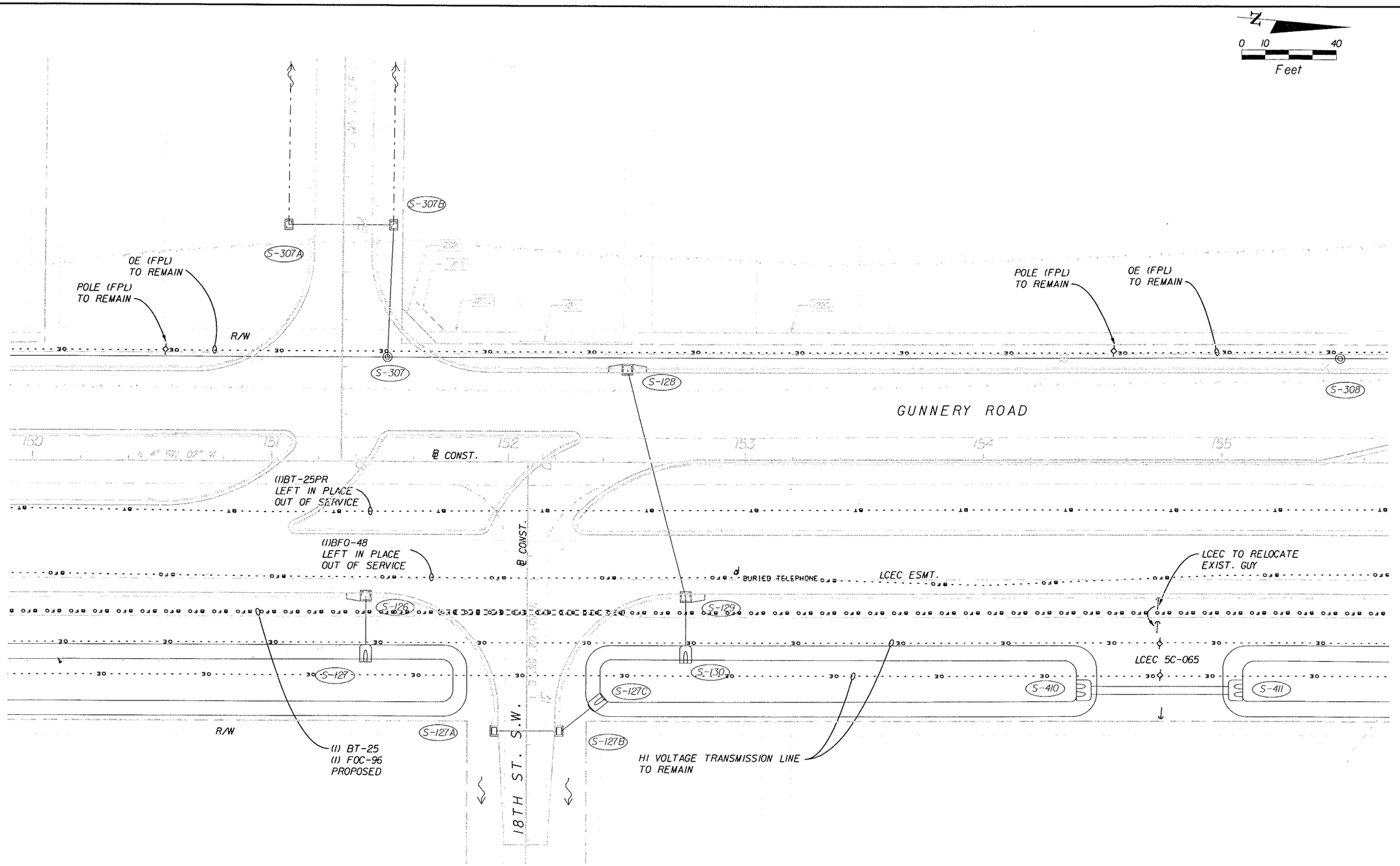

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY ENGINEERING & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 209

09/13/2005 07:39:58 AM P:\99012.201\cadd\roadway\utadrd10.dgn

N

0 10 40

Feet

OE (FPL)
TO REMAIN

POLE (FPL)
TO REMAIN

R/W

S-308

S-131

S-309

S-136

S-309A

GUNNERY ROAD

156 157 158 159 160 161

R 4° 57' 02" W

℄ CONST.

(1)BT-25PR
LEFT IN PLACE
OUT OF SERVICE

(1)BFO-48
LEFT IN PLACE
OUT OF SERVICE

LCEC ESMT.

BURIED TELEPHONE

℄ CONST.

S-137

S-132

S-134

S-138

S-133

S-135

S-412

S-413

R/W

HI VOLTAGE TRANSMISSION LINE
TO REMAIN

(1) BT-25
(1) FOC-96
PROPOSED

16TH ST. S.W.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 210

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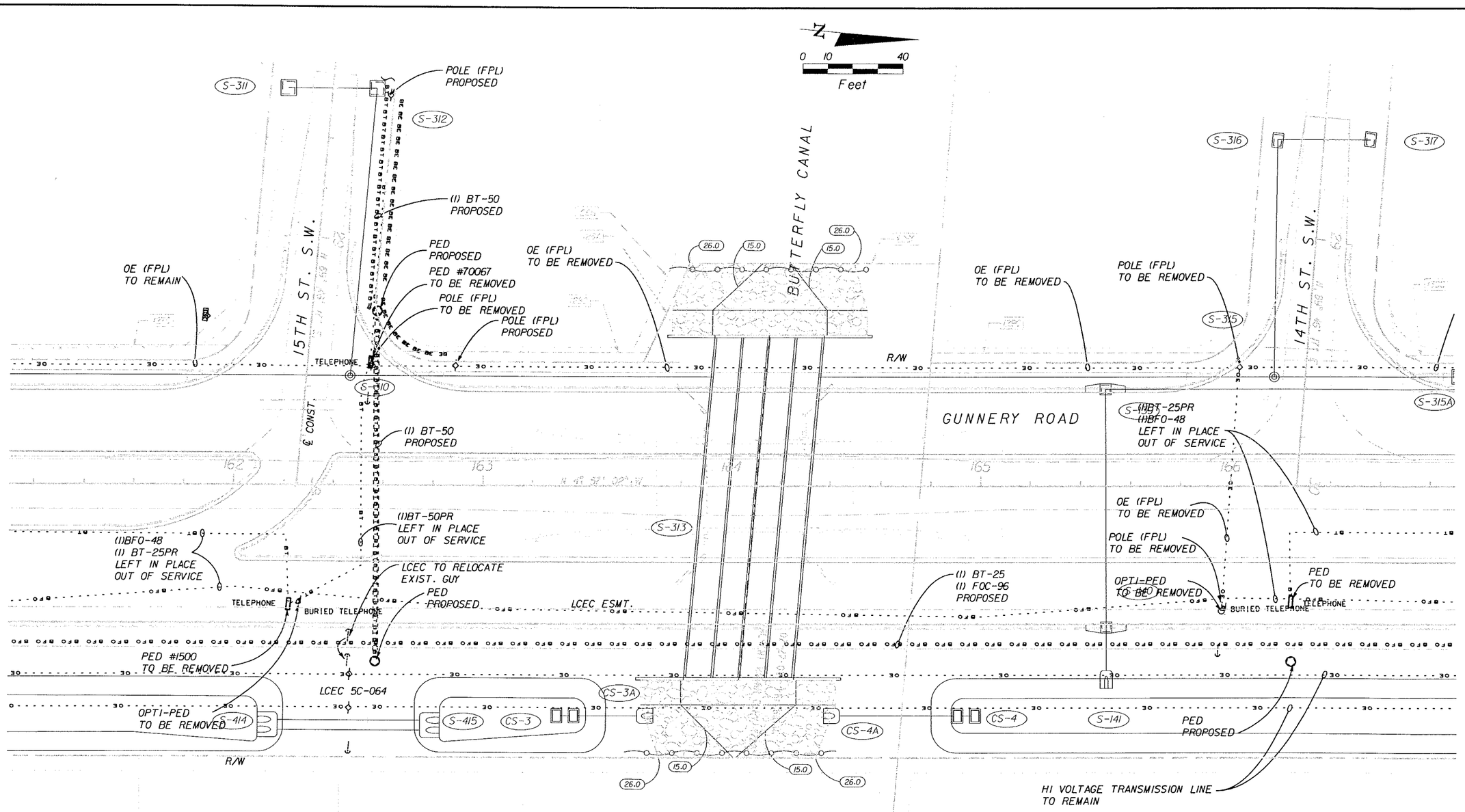

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN-HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 211

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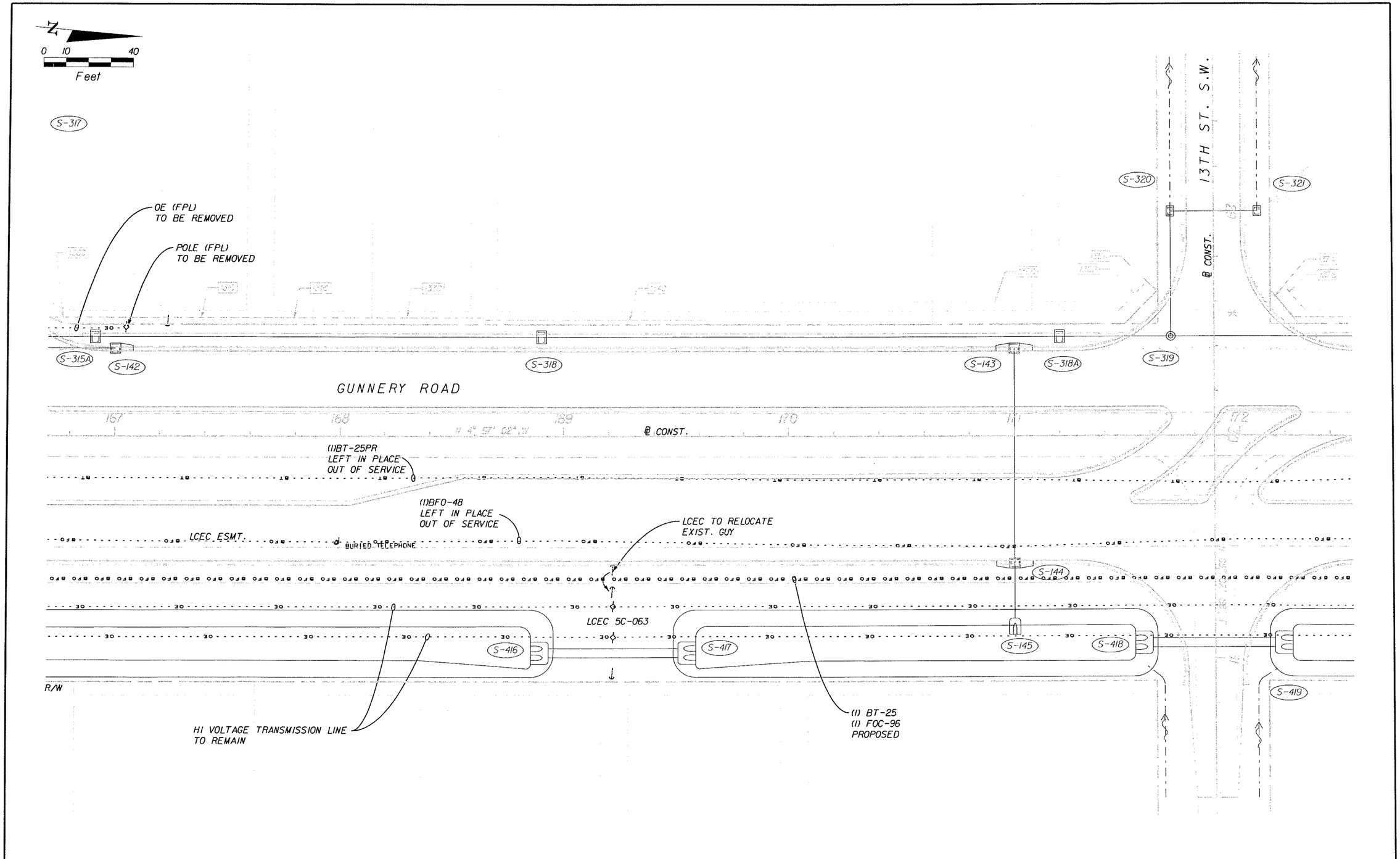

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PH&A ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
212

09/13/2005 07:40:19 AM P:\99012.201\cadd\roadway\utodrd13.dgn

N

0 10 40

Feet

R/W

S-146 S-319A S-322 S-149 S-322A

GUNNERY ROAD

173 174 175 176 177 178

N 4° 57' 02" W

℄ CONST.

(1)BT-25PR
LEFT IN PLACE
OUT OF SERVICE

PED #31295
TO BE REMOVED

(1)BFO-48
LEFT IN PLACE
OUT OF SERVICE

LCEC TO RELOCATE
EXIST. GUY

S-147 S-150

BURIED TELEPHONE

TELEPHONE

LCEC ESMT.

BURIE

PED
PROPOSED

S-151 LCEC 5C-062

S-148 S-420 S-421

R/W

HI VOLTAGE TRANSMISSION LINE
TO REMAIN

(1) BT-25
(1) FOC-96
PROPOSED

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 213

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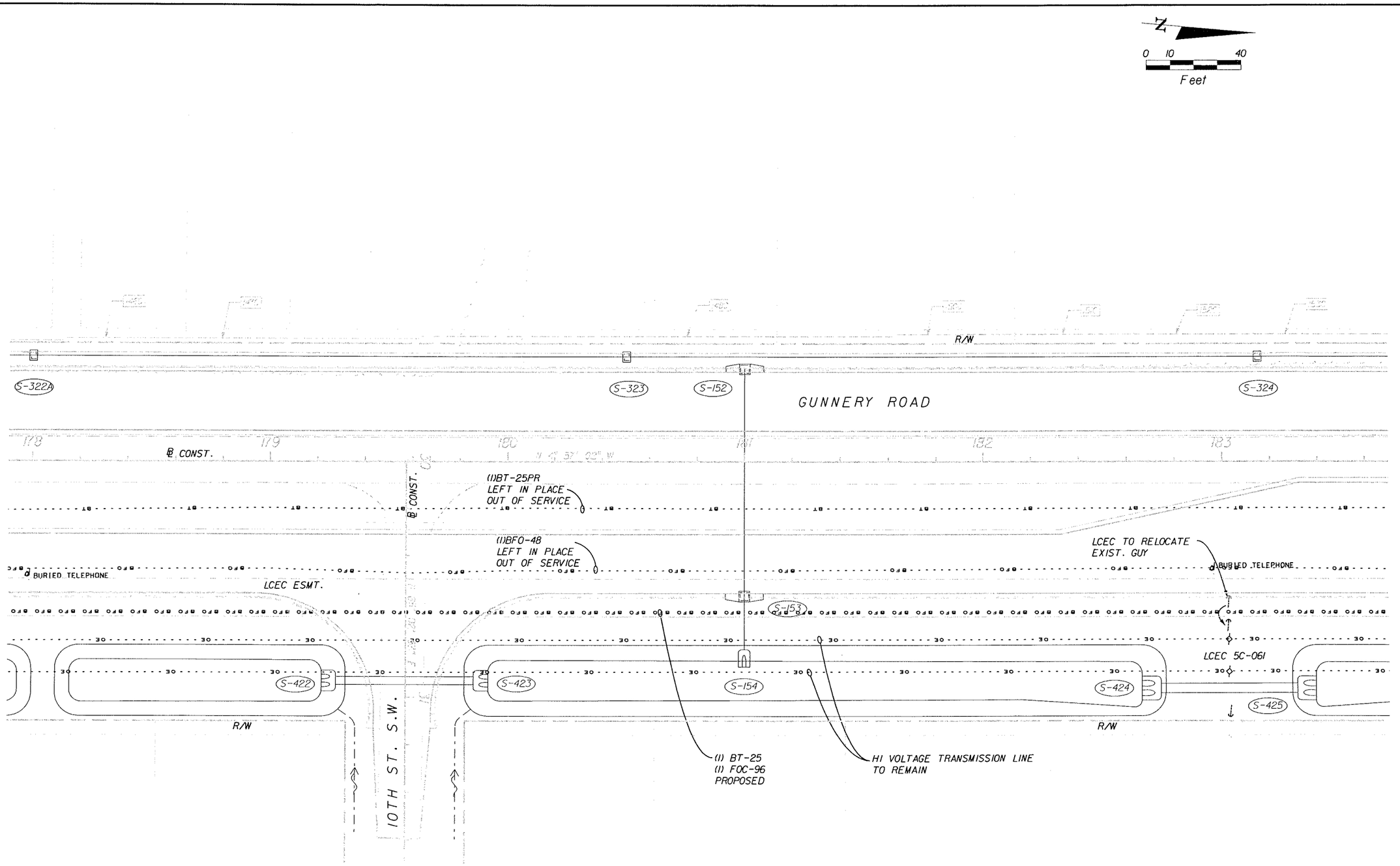

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMAN • BARNUMSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 214

09/13/2005 07:40:32 AM P:\99012.201\cadd\roadway\utadrd15.dgn

N

0 10 40

Feet

8TH ST. S.W.

S-326 S-327

POLE (LCEC) PROPOSED

OE (LCEC) PROPOSED

POLE (LCEC) TO BE RELOCATED

CATV VAULT PROPOSED

TEMPORARY, NO SERVICE

PED #24516 TO BE REMOVED

BCATV PROPOSED

(2)BT-50PR TO REMAIN

OE (LCEC) TO REMAIN

R/W

S-324A S-155 S-325 S-158

GUNNERY ROAD

OE (LCEC) TO BE REMOVED

BCATV PROPOSED

(2)BT-50PR LEFT IN PLACE OUT OF SERVICE

(1) BT-200 PROPOSED

184 185 186 187 188 189

℄ CONST.

N 0° 57' 02" W

(1)BT-100PR LEFT IN PLACE OUT OF SERVICE

(1)BT-25PR LEFT IN PLACE OUT OF SERVICE

(1)BT-25PR LEFT IN PLACE OUT OF SERVICE

(1)BFO-48 LEFT IN PLACE OUT OF SERVICE

LIGHT POLE TO BE REMOVED

PED #23464 TO BE REMOVED

S-159

OE (LCEC) TO REMAIN

LCEC ESMT.

TELEPHONE

PED PROPOSED

S-156

BCATV PROPOSED

CS-6 S-160

PED PROPOSED

S-157

(1) BT-200 PROPOSED

CS-5

R/W

TELEPHONE

CS-54

8TH ST. S.W.

R/W

PED #24699 TO BE REMOVED

(1) BT-25 (1) FOC-96 (1) BT-200 PROPOSED

(1) BT-25 (1) FOC-96 PROPOSED

POWER POLE W/ RISER TO REMAIN

(1)BFO-48

25 OH/NFV TO REMAIN

OE TO REMAIN

(1) BT-25 (1) FOC-96 PROPOSED

HI VOLTAGE TRANSMISSION LINE TO REMAIN

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC. INC
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 215

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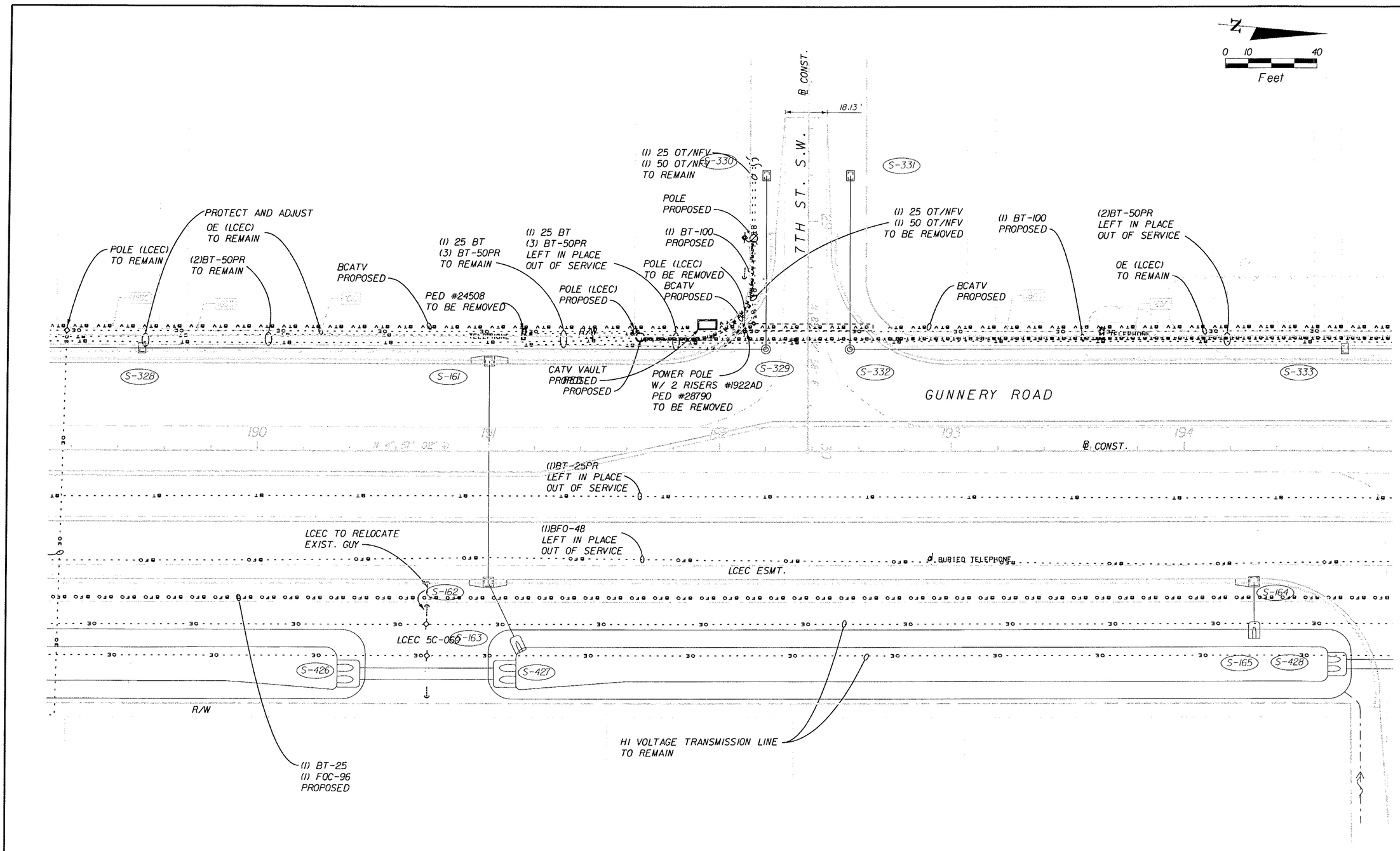

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • HAKTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
216

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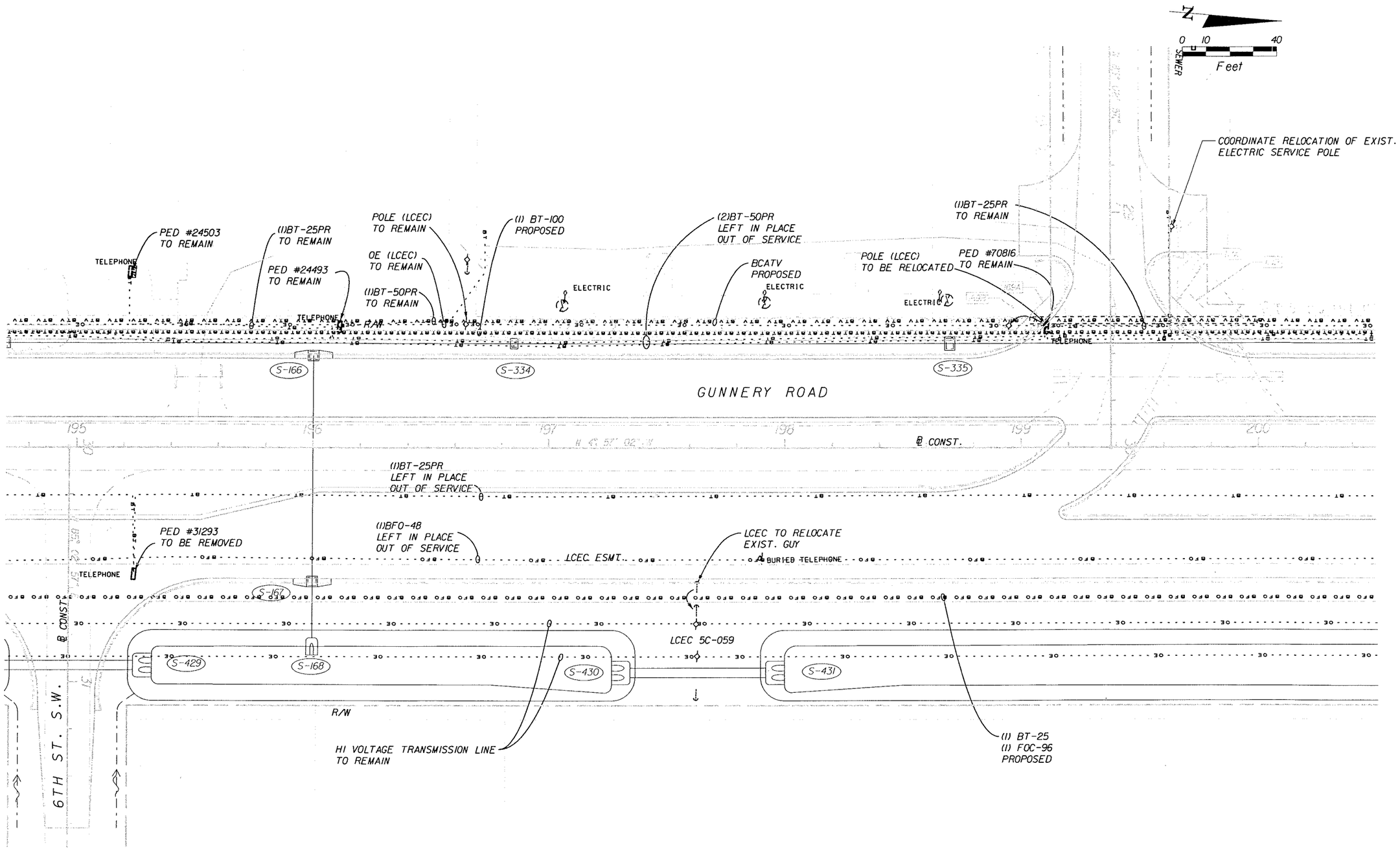


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIJNAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

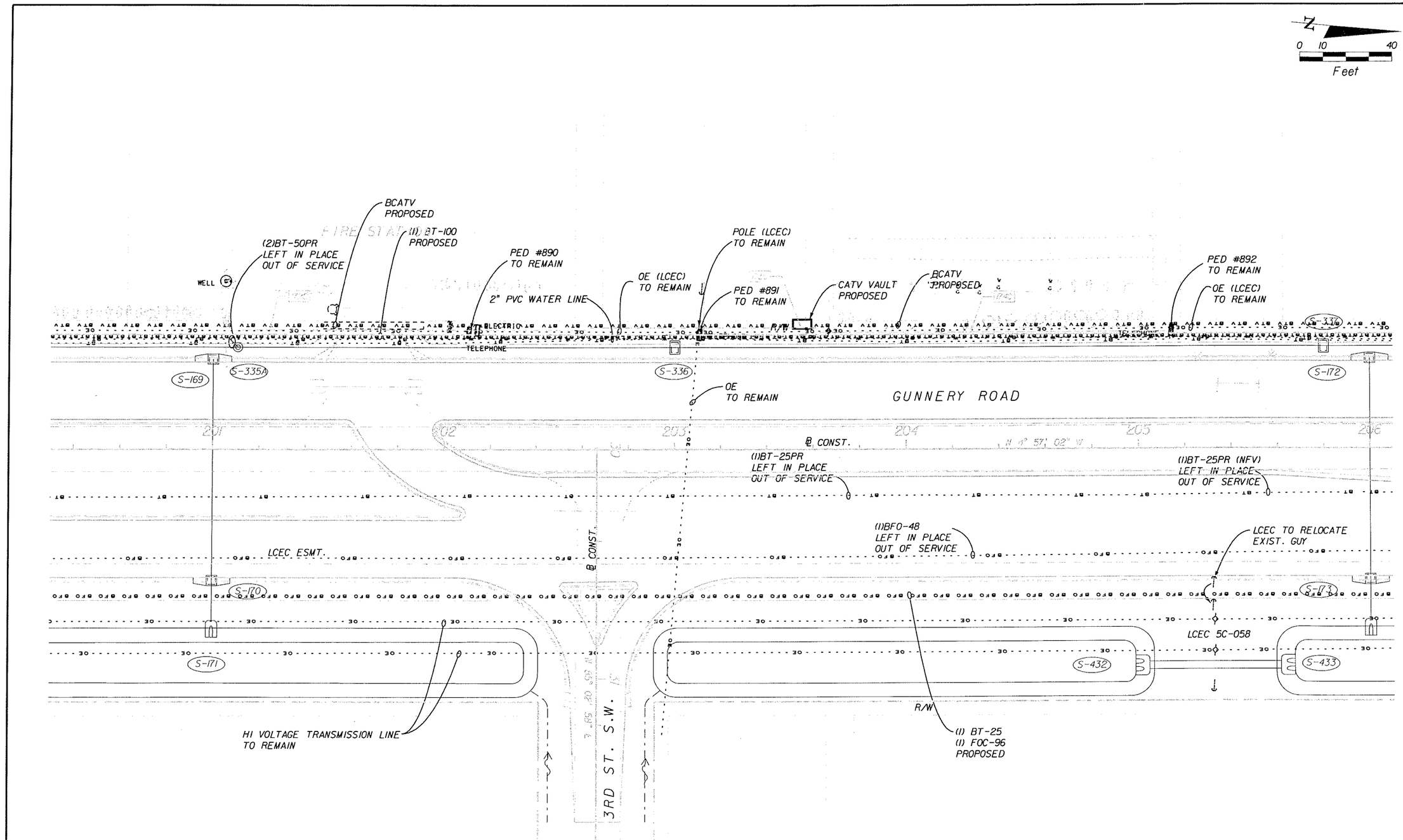
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 217

09/13/2005 07:40:54 AM P:\99012.201\cadd\roadway\utadrdlg.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

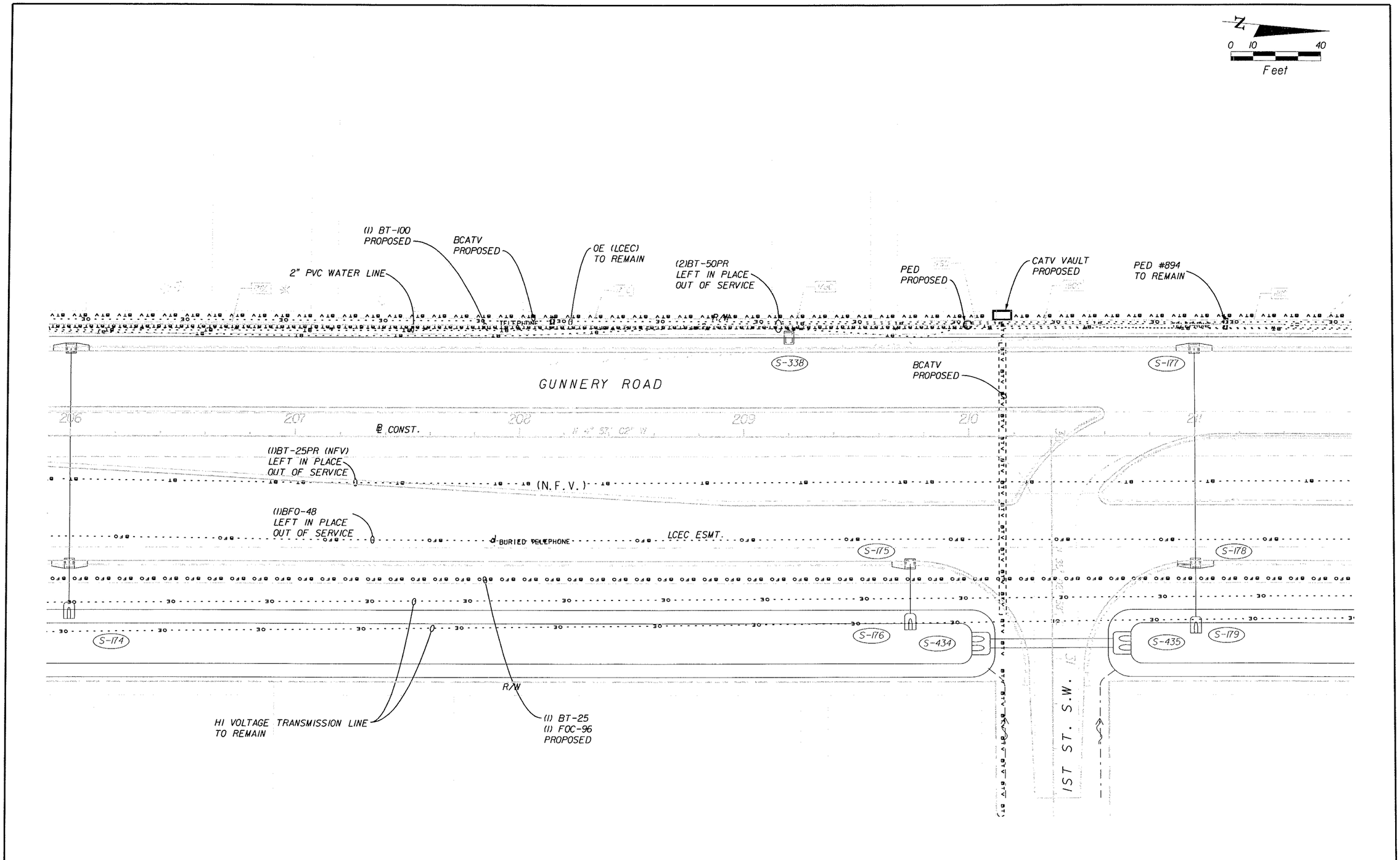
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 218

09/13/2005 07:41:01 AM P:\99012.201\cadd\roadway\utadrdf9.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PH&A ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
219

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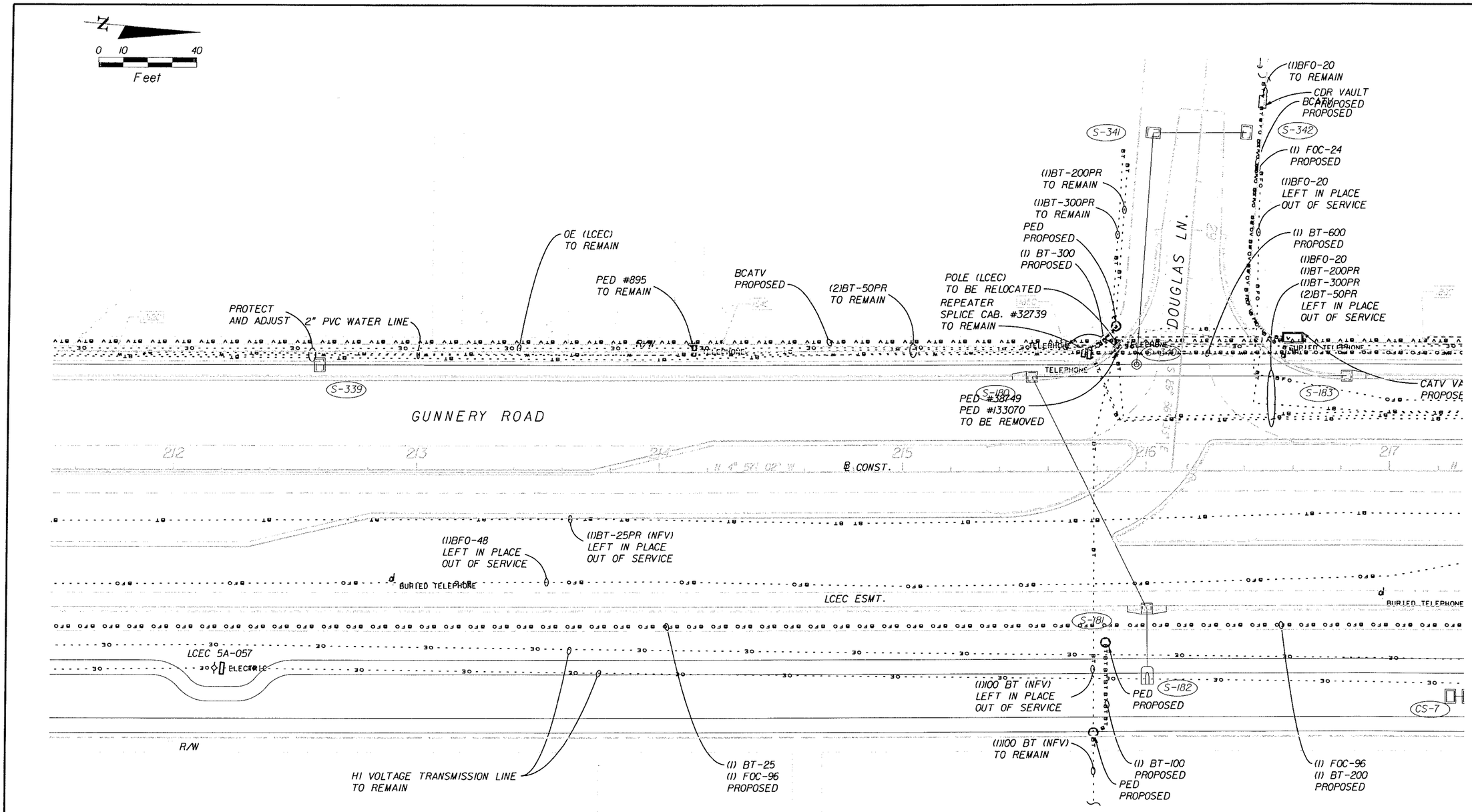

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMANY GARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 220

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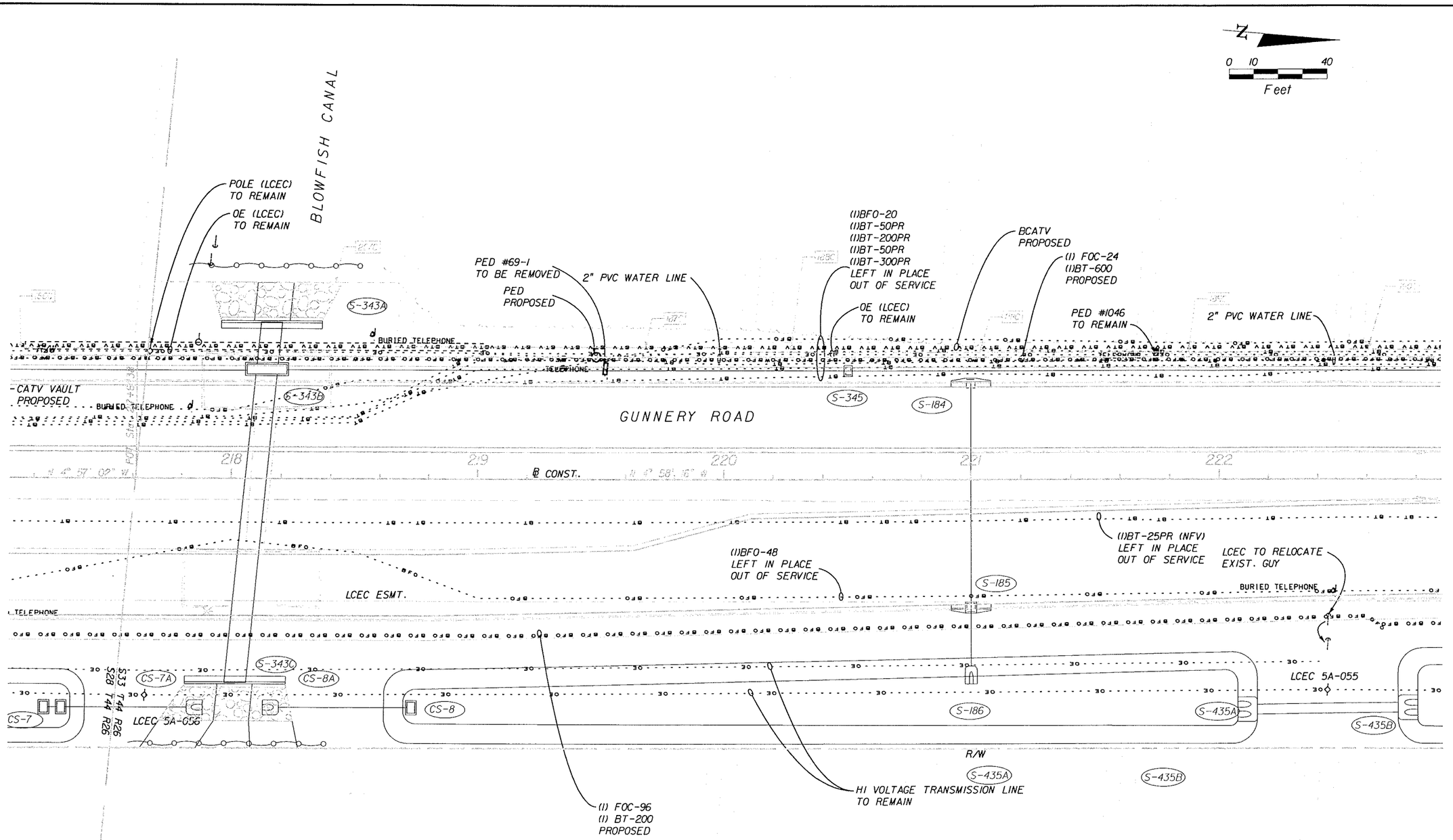


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMAN • HASTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

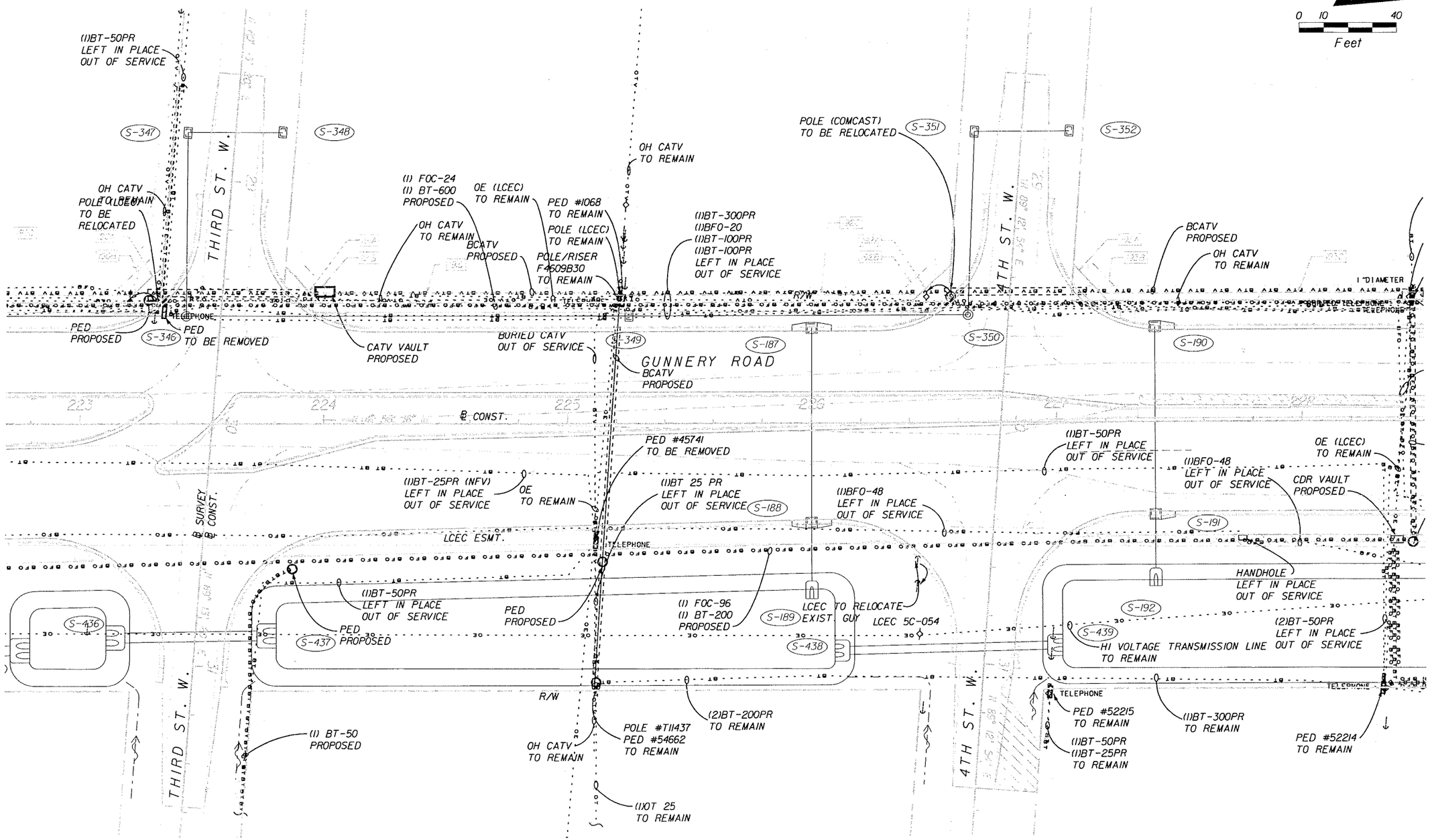
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 221

09/13/2005 01:41:21 AM P:\99012.201\cadd\roadway\utadrd22.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIRNAZAR HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 222

09/13/2005 07:41:28 AM P:\99012.201\cadd\roadway\utadrd23.dgn

N

0 10 40

Feet

LEE BLVD

END PROJECT
END CONSTRUCTION
Sta. 229+75.24 ℄ CONST.

2" PVC WATER LINE

12" PVC WM

(1)BT-25PR
TO REMAIN

POLE (COMCAST)
TO REMAIN

BURIED CATV
TO REMAIN

PED #1080
TO REMAIN

(1)BT-100PR
TO REMAIN

TRAFFIC

TRAFFIC

TRAFFIC

AMETER

R/W

BCATV
PROPOSED

(1)BFO-20
(2)BT-100PR
(1)BT-300PR

BURIED CATV
TO REMAIN

12" FM

229 230 231 232 233 234

℄ CONST.

N 4°58' 6" W

12" PVC WM

(1) FOC-24
(1) BT-600
PROPOSED

(1)BT-50PR
LEFT IN PLACE
OUT OF SERVICE

PED
PROPOSED

GUNNERY ROAD

(1)BT-50PR
LEFT IN PLACE
OUT OF SERVICE

(2)BT-100PR
(1)BT-300PR
LEFT IN PLACE
OUT OF SERVICE

ELECTRIC

HI VOLTAGE
TRANSMISSION LINE
TO REMAIN

(1)BFO-48
(1)BFO-20
LEFT IN PLACE
OUT OF SERVICE

LEE BLVD

OH CATV
TO REMAIN

BCATV
PROPOSED

R/W

R/W

(1)BT-50PR
(1)BT-300PR
(2)BT-100PR
(1)BFO-48
(1)BFO-20

(1) 900-BT
(1) FOC-96
(1) FOC-24
PROPOSED

(1)BT-300PR
TO REMAIN

CATV VAULT
PROPOSED PED
PROPOSED

OH CATV
TO REMAIN

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

George R. Brinson, P.E. •47607

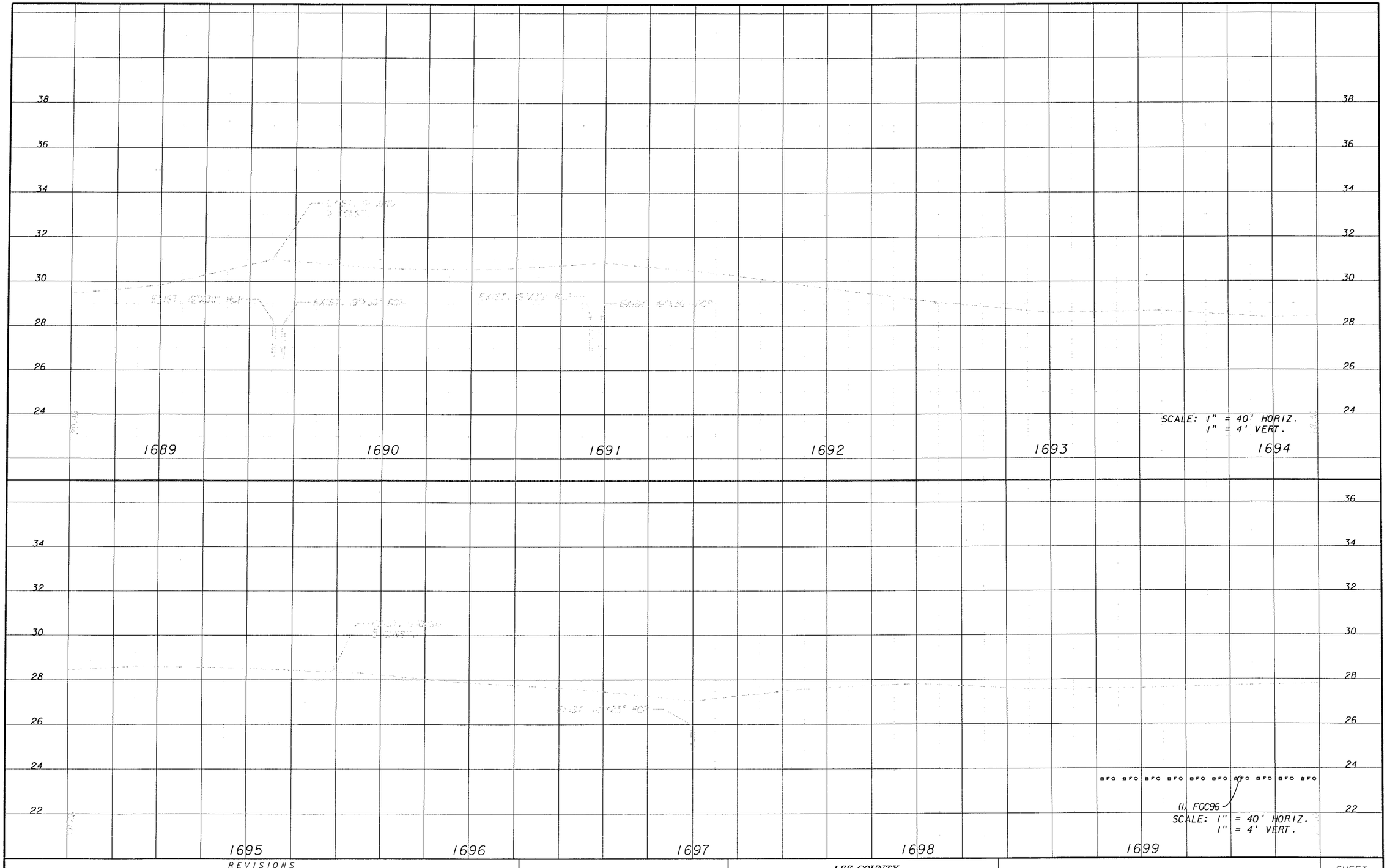
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
223

09/13/2005 07:41:36 AM P:\99012.201\cadd\roadway\utadrd24.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTINE & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 224

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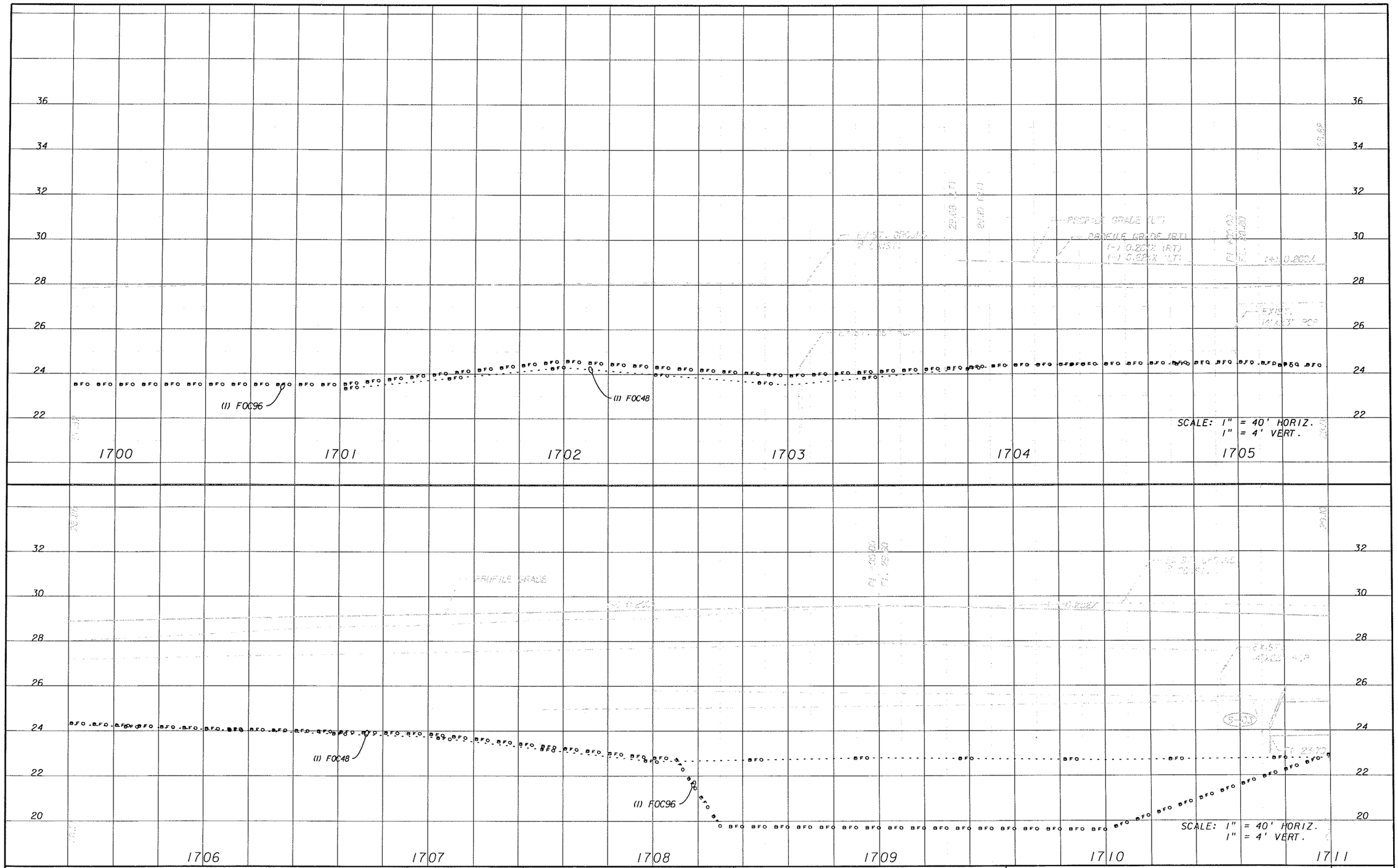

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROPICAL ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
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George R. Brinson, P.E. #47607

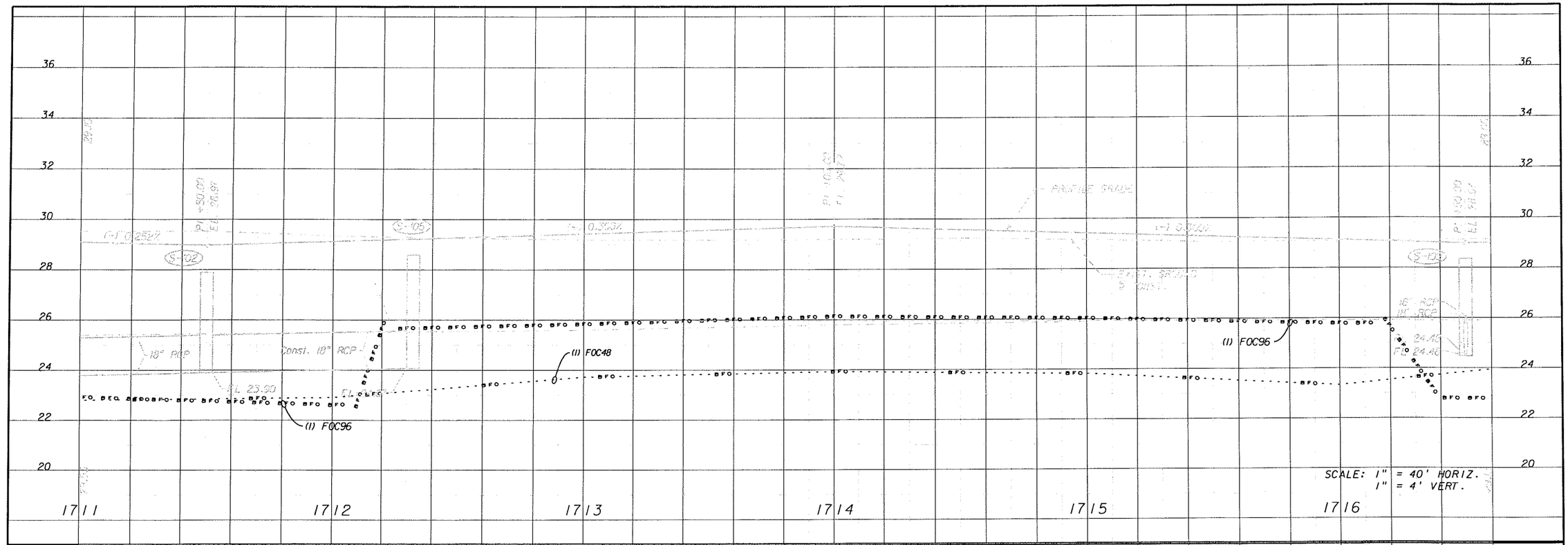
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

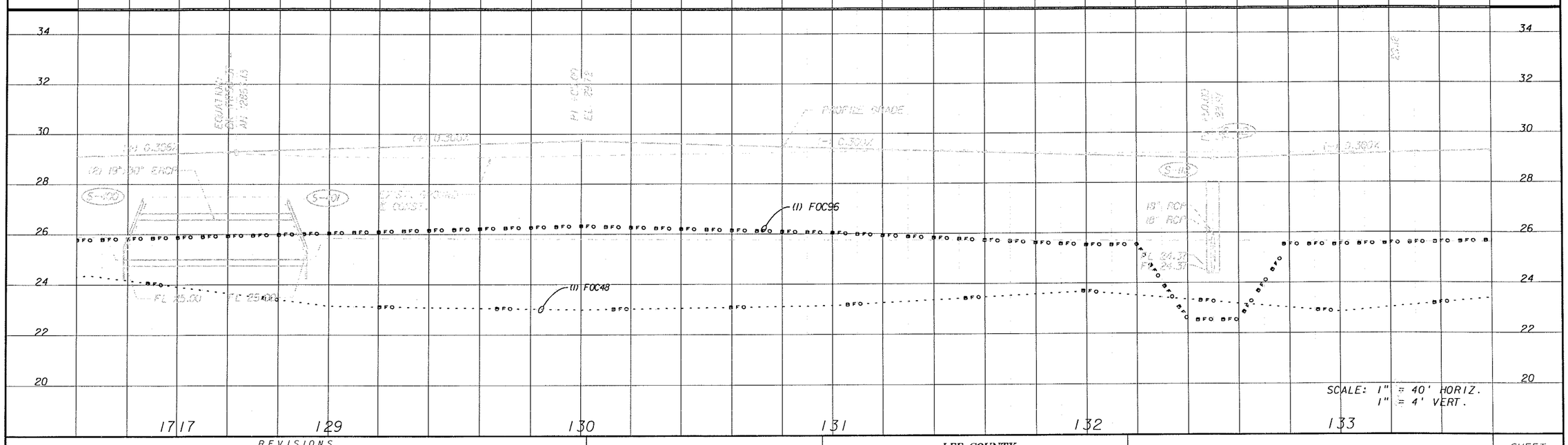
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 225

09/13/2005 07:41:52 AM P:\99012.201\cadd\roadway\utadrd37.dgn





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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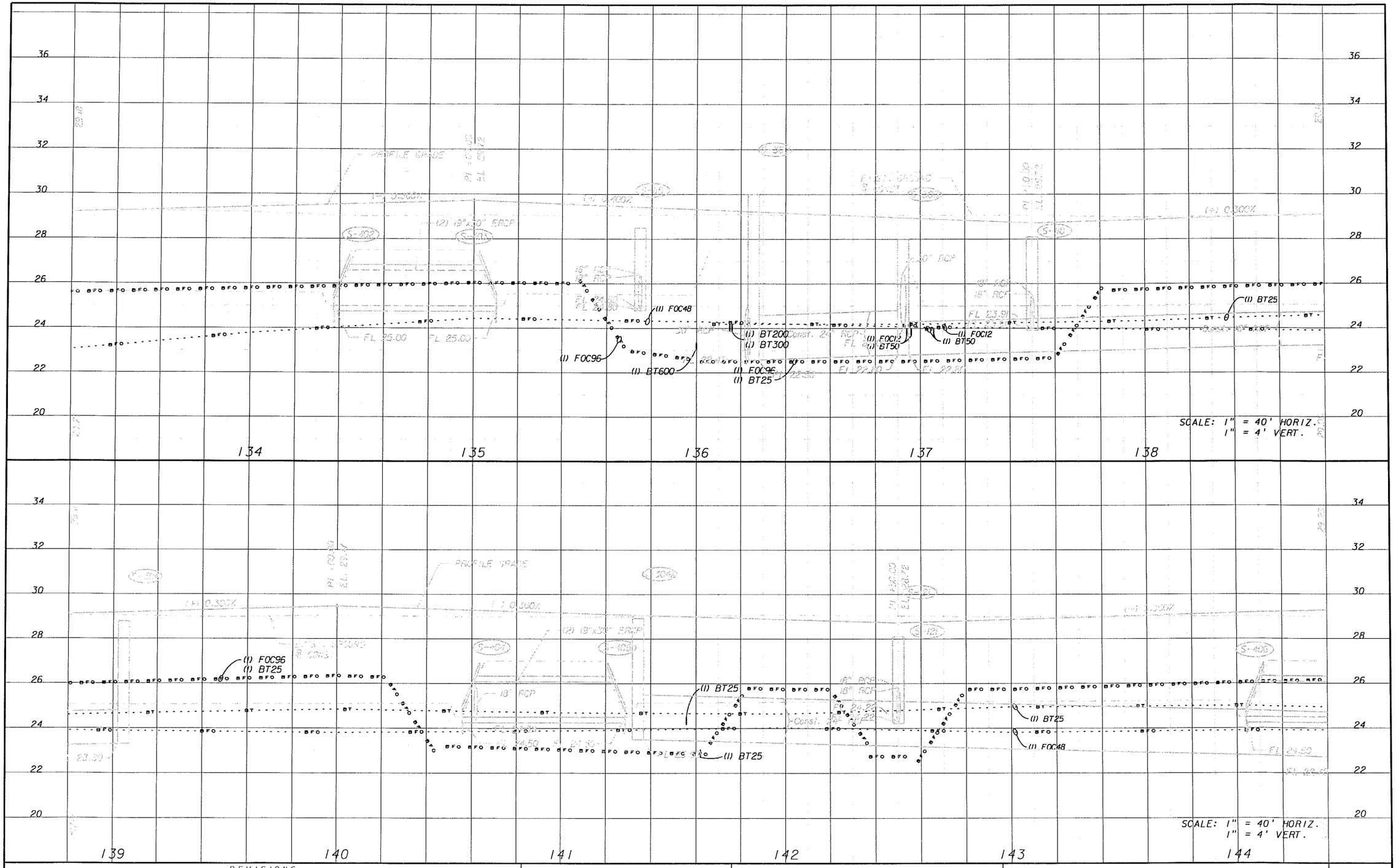
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 226

09/13/2005 07:41:59 AM P:\99012.201\cadd\roadway\utadrd38.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 227

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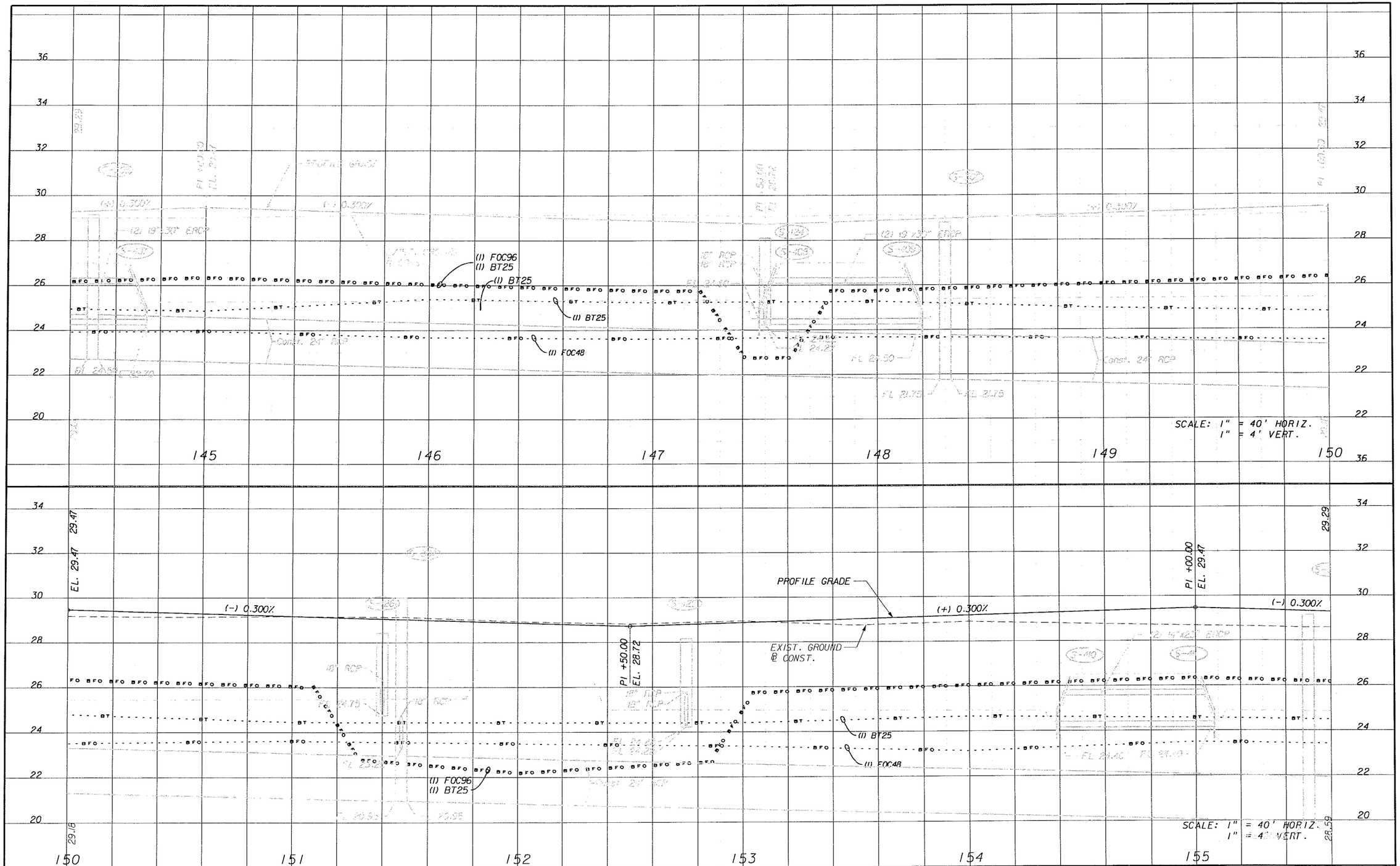

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIRMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 228

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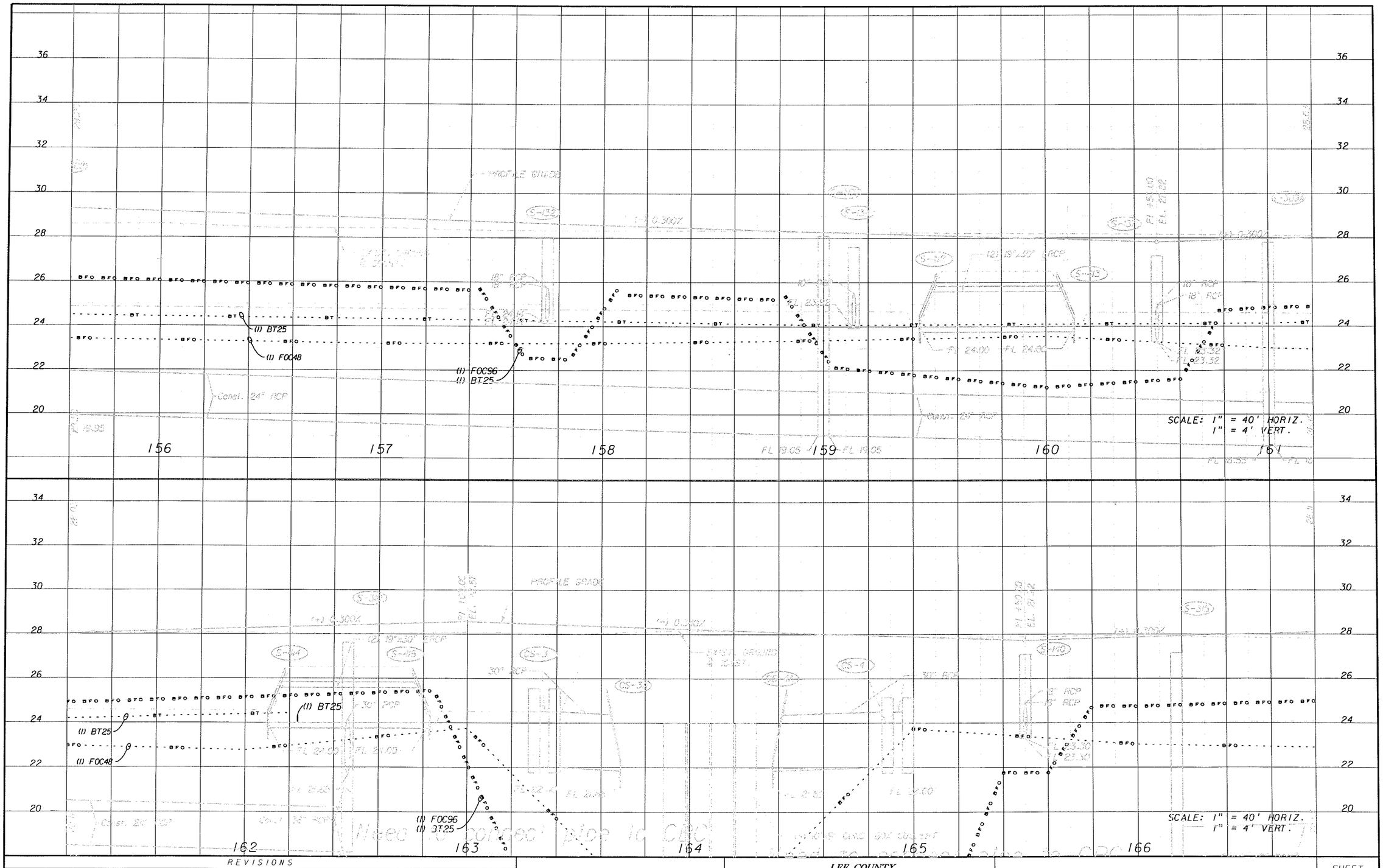

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PLEMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
229

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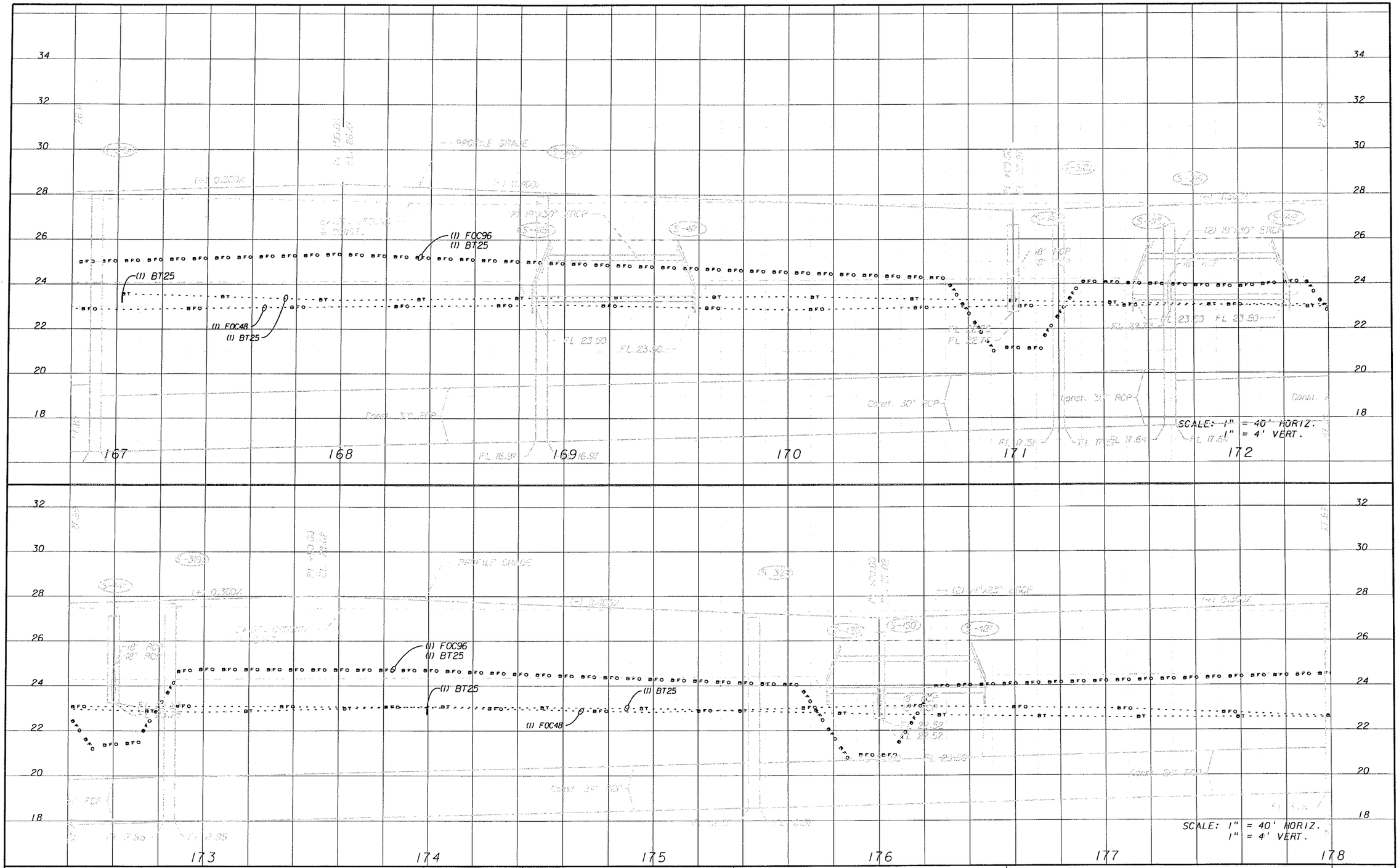

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
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EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
230

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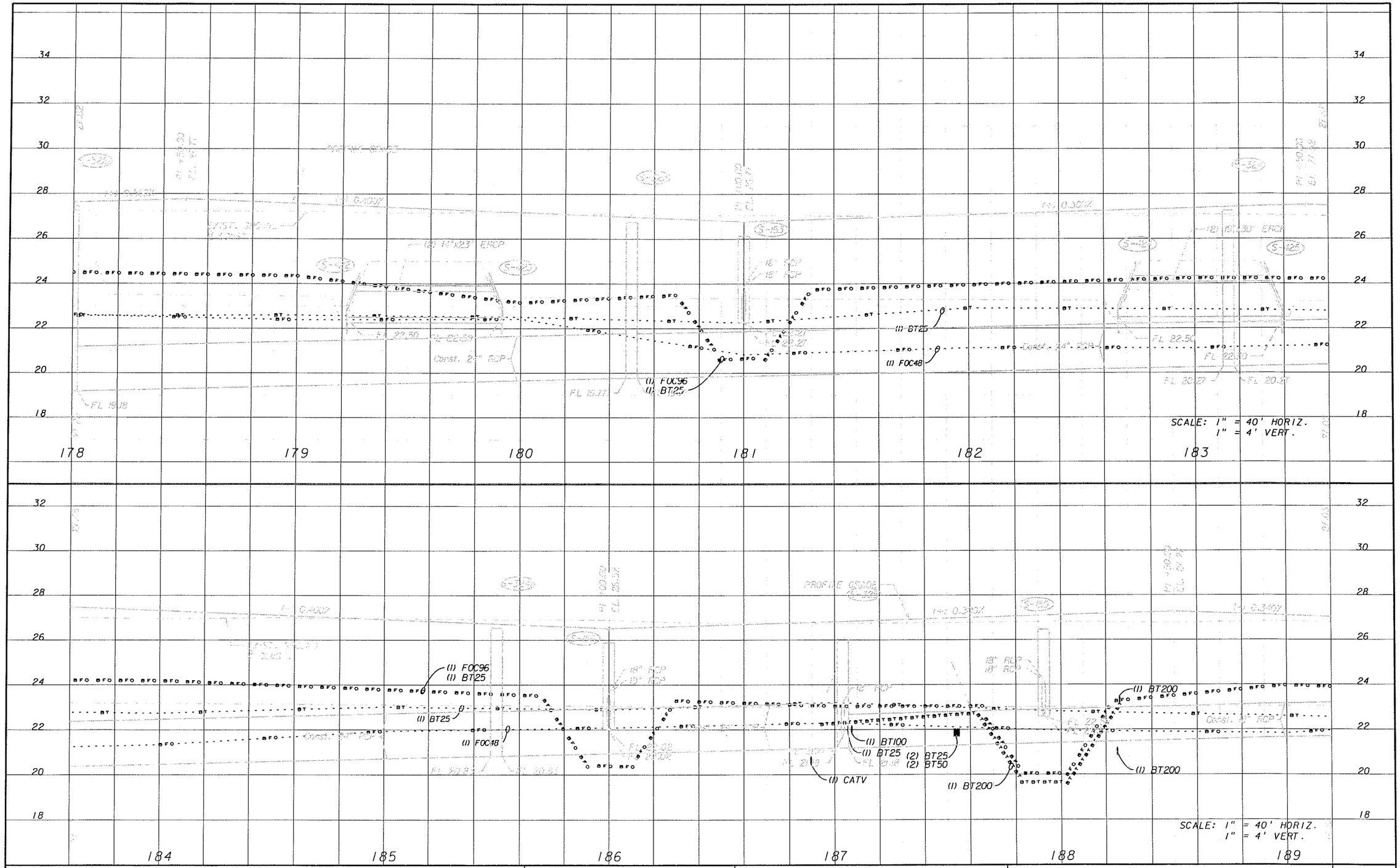

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PRIMARY HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. -47607

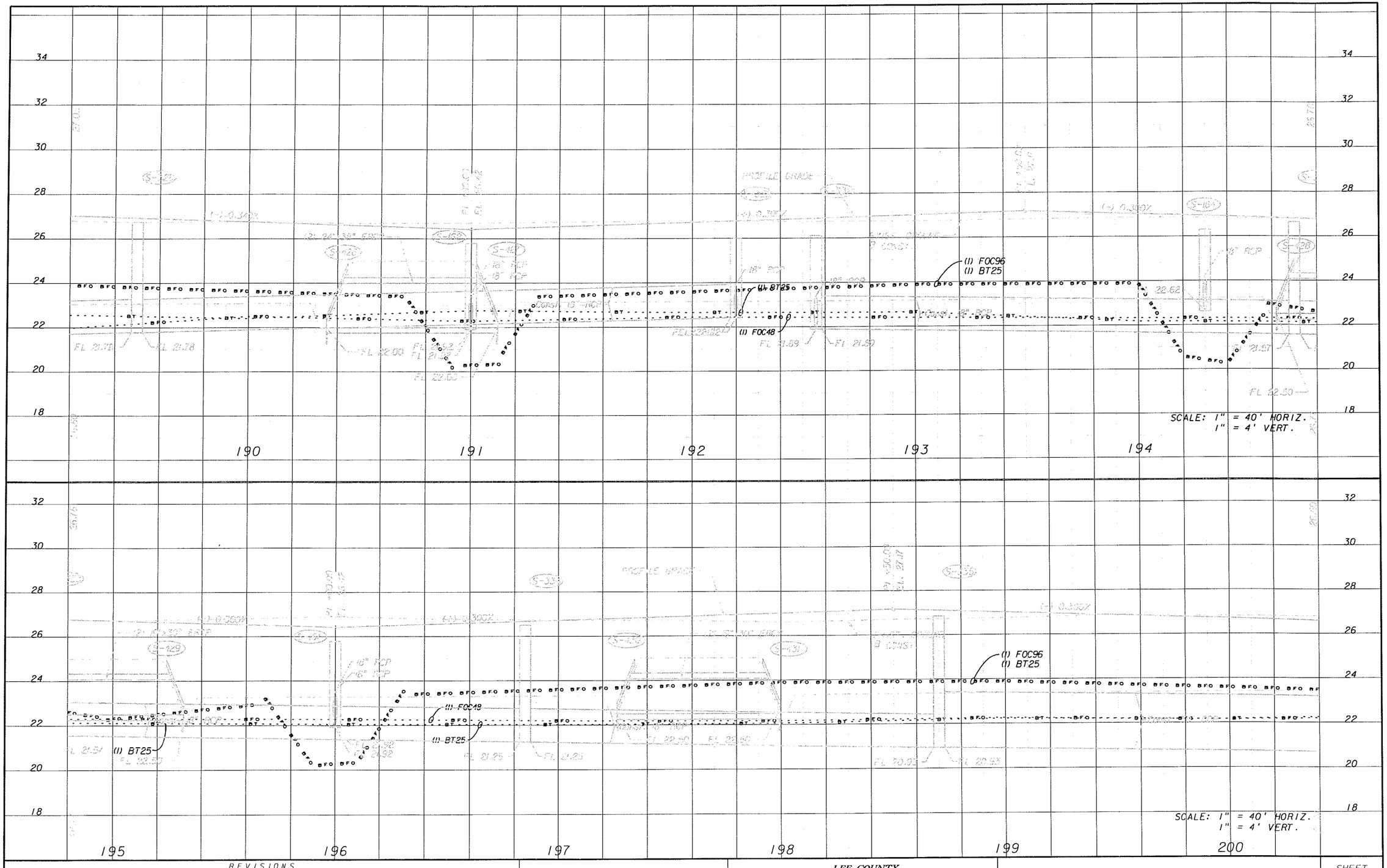
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 231

09/13/2005 07:42:37 AM P:\99012.201\cadd\roadway\utadrd43.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PH&A PITMAN • HARTENSTEIN & ASSOC. INC. ENGINEERS JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO.
232

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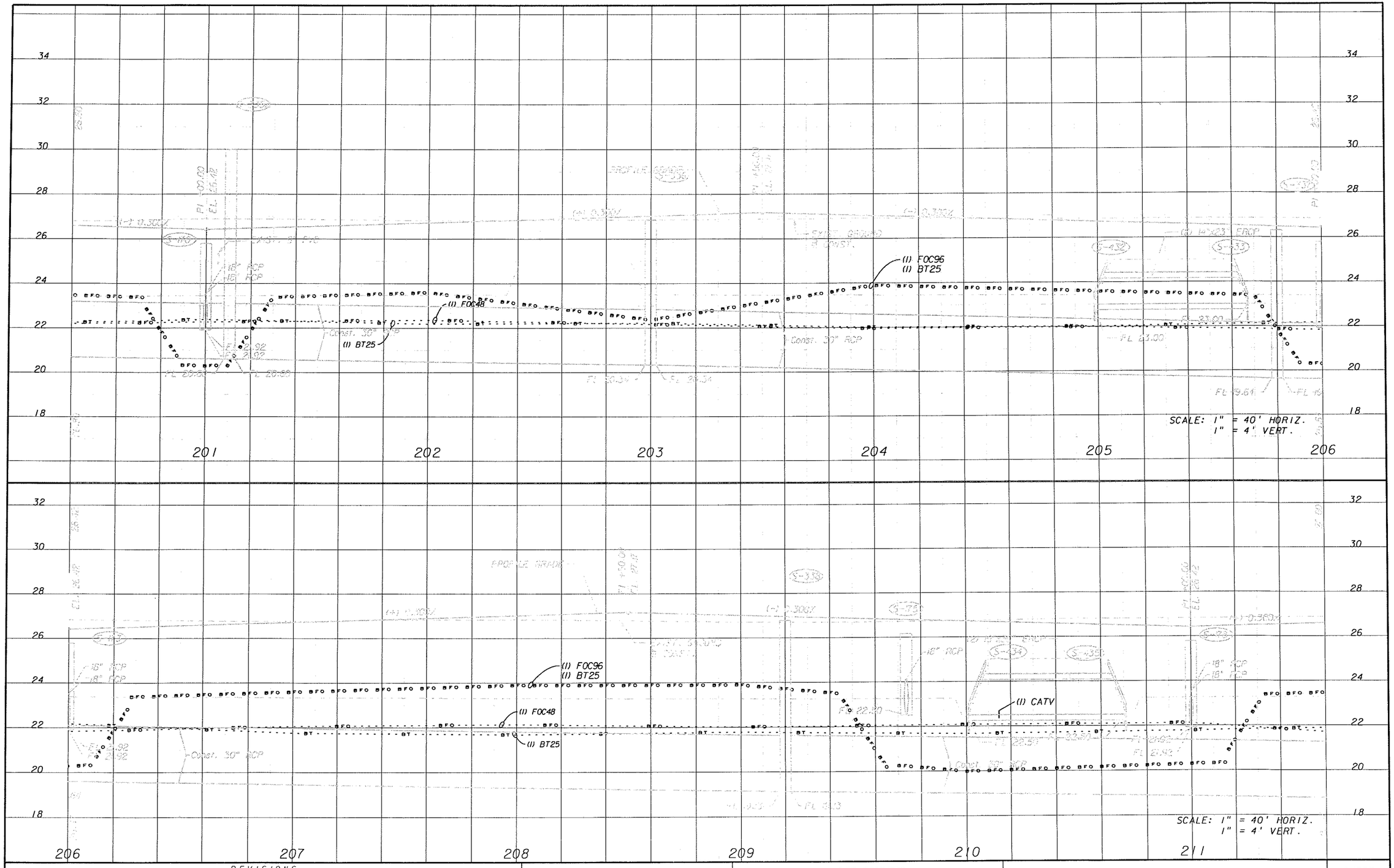

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTKENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
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EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 233

09/13/2005 07:42:51 AM P:\99012.201\cadd\roadway\utadrd15.dgn

(I) F0C96
(I) BT25
(I) BT25
(I) F0C48
(I) BT100
(I) BT100
(I) F0C96
(I) BT200
Need to connect
SCALE: 1" = 40' HORIZ.
1" = 4' VERT.
212
213
214
215
216
217
(I) BT25
(I) F0C48
Need to connect pipe
(I) F0C96
(I) BT200
SCALE: 1" = 40' HORIZ.
1" = 4' VERT.
218
219
220
221
222

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
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EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

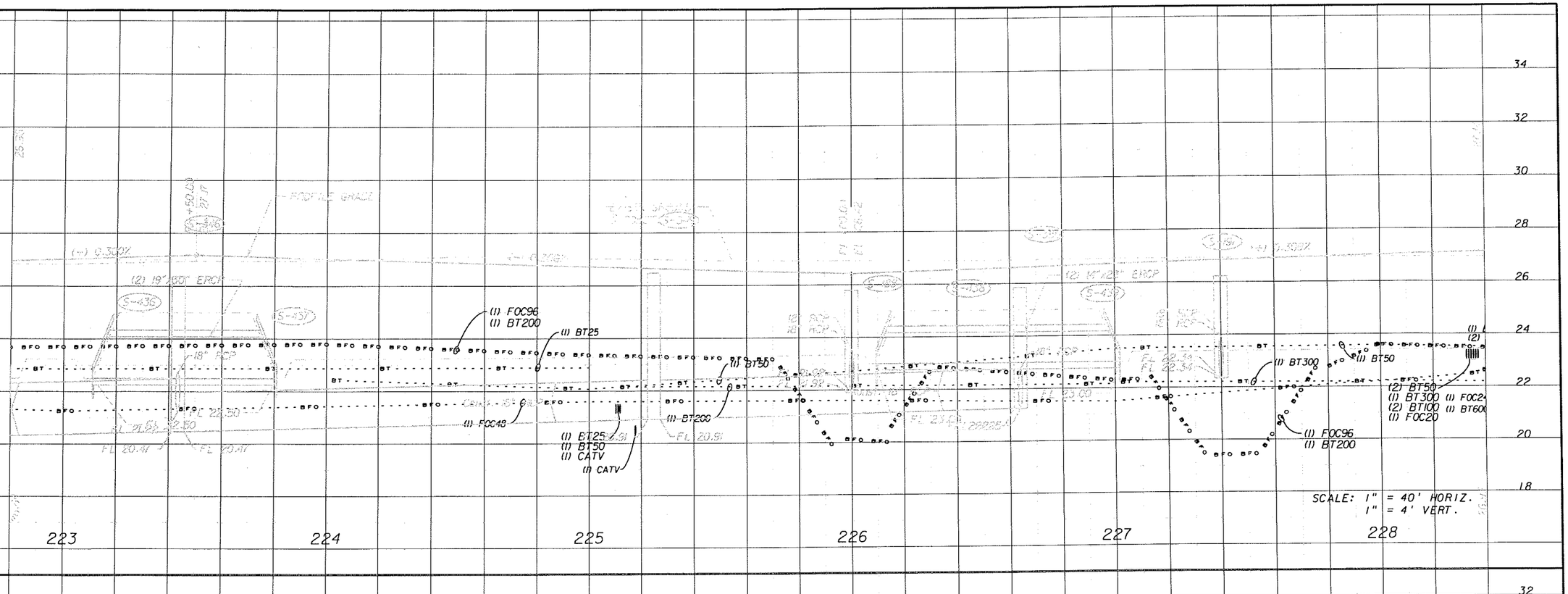
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

SHEET NO. 234

09/13/2005 07:43:00 AM P:\99012.201\cadd\roadway\utadrd46.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEGRAM HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

UTILITY ADJUSTMENTS

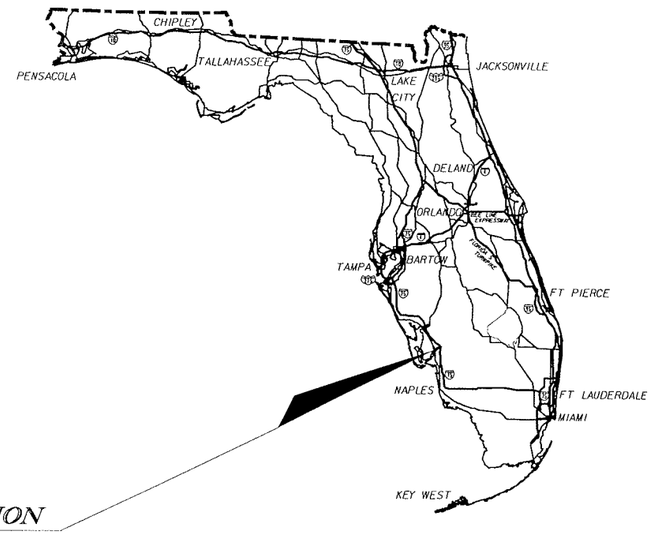
SHEET NO. 235

09/13/2005 07:43:08 AM P:\99012.201\cadd\roadway\utcdrd47.dgn

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

GUNNERY ROAD
LEE COUNTY
COUNTY PROJECT NO. 4055



PROJECT LOCATION

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2 - S-5	TABULATION OF QUANTITIES
S-6	GENERAL NOTES
S-7 - S-8	TYPICAL DETAILS
S-9 - S-23	PLAN SHEETS
S-24	GUIDE SIGN DETAILS

SIGNING AND PAVEMENT MARKING PLANS

PLANS PREPARED BY:

PEIMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane, Bldg. 80
Fort Myers, FL 33907
239-936-6466
EB-4464

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2004,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: GEORGE R. BRINSON, Jr., P.E.

P.E. NO.: 47607

FISCAL YEAR	SHEET NO.
	S-1

09/12/2005 02:22:53 PM P:\99012.20\cadd\signing\keyssp01.dgn

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-9		S-10		S-11		S-12		S-13		S-14		S-15		S-16		S-17		S-18						
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
700-40-1	SIGN SINGLE POST (LESS THAN 12 SQ. FT.)	AS																									
	D2-1 (24x24)																						35				
	D3(12x30) (4)								2																		
	M2-1 (21x15), M1-6S (24x24)																										
	M2-1 (21x15), M1-6S (24x24), M6-4 (21x15)																										
	M3-1 (12x24), M1-6S (24x24)																										
	M3-3 (12x24), M1-6S (24x24)								2																		
	R2-1 (30x36)		1				1		1								1		1								
	R3-2 (24x24)						1						1								3						
	R3-7R (30x30)																										
	R3-7R (30x30), W16-2A (24x18)																										
	R4-7R (30x36), R3-4 (24x24)																										
	R4-7R (30x36), OM1-1 (18x18)								2								1		1								
	R5-1 (36x36)																										
	R5-1 (36x36), R6-1R (36x12)						1				2		1		2						1						
	R6-1R (36x12)																										
	R6-1R (36x12) (2), OM1-1 (18x18) (2)																										
	R6-1R (36x12), OM1-1 (18x18)						1				1		1		1		1		2		1						
	W11-8 (36x36)																		1		1						
	W1-2R (36x36)																										
	W3-3 (36x36)																										
	W6-3 (36x36)																										
	ADOPT ROAD																										
700-40-2	SIGN SINGLE POST (12 TO 25 SQ. FT.)	AS																									
	I-8, M6-3 (21x15), D9-2, M5-1R (21x15)																						21				
	M1-6S (24x24) (3), M6-1L (21x15), M6-1R (21x15),																										
	AND M6-3 (21x15), M3-2 (12x24), M3-4 (24x12)																										
	M1-6S (24x24) (2), M6-4 (21x15), M6-3 (21x15)																										
	R1-1 (36x36), D3 (12x30) (4)						2				1				1		2				1						
	R1-1 (36x36), R3-2 (24x24), D3 (12x30) (4)						1				3		3		2				3		1						
	R1-1 (36x36), R6-3A (24x18), D3 (12x30) (4)																1										
	W6-1 (36x36), W6-2 (36x36), R3-4 (24x24)																										
700-41-10	MULTI-POST (50 OR LESS SQ. FT.)	AS																									
	D2-1 (24x24)																						2				
	D30						1				1																
700-46-11	SIGN EXISTING (SINGLE POST) (REMOVE)	AS	5		7		4		3		5		6		2		2		3		4		41				
700-46-21	SIGN EXISTING (SINGLE POST) (RELOCATE)	EA	2																				2				
705-71	TUBULAR DELINEATOR (FLEXIBLE)	EA					2				4		2		4						4		16				
705-10-12	MARKER OBJECT (POST MOUNTED) (TYP. 2)	EA											2										2				
705-10-14	MARKER OBJECT (POST MOUNTED) (TYP. END OF ROAD)	EA	3		3																		6				
706-3	REFLECTIVE PAVEMENT MARKER	EA																					1587				
	REFLECTIVE PAVEMENT MARKER (A/A)						28				40		22		40		30		20		28						
	REFLECTIVE PAVEMENT MARKER (C/R)				36		97		169		77		66		77		88		99		103						
	REFLECTIVE PAVEMENT MARKER (A/R)																										
	REFLECTIVE PAVEMENT MARKER (MD/A)						37		64		76		38		99		43		27		71						
	REFLECTIVE PAVEMENT MARKER (MD/C)						15				22		17		34				6		18						
710-6	DIRECTIONAL ARROWS (PAINTED)	EA																									
	LEFT DIRECTIONAL ARROW						5		8		3		3		6		3		6				42				
	RIGHT DIRECTIONAL ARROW						1		7																		
	RIGHT TURN-THRU COMBINATION DIRECTIONAL ARROW																										
710-7	PAVEMENT MESSAGES (PAINTED)	EA																									
	ONLY PAVEMENT MESSAGE																										
710-5-2	DOTTED SKIP TRAFFIC STRIPE (YELLOW)	LF							140														140				
710-11	MARKINGS PAINT REMOVAL	SF																									

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEIMANY (GARY) WILLIAMS & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TALLAHASSEE
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TABULATION OF QUANTITIES

SHEET NO. S-2

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-9		S-10		S-11		S-12		S-13		S-14		S-15		S-16		S-17		S-18					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
710-21	6" 10/30 SKIP TRAFFIC STRIPE (WHITE)	GM			0.267		0.395		0.245		0.410		0.413		0.410		0.413		0.410		0.413		3.376			
710-23-61	6" SOLID TRAFFIC STRIPE (WHITE)	NM			0.272		0.543		0.723		0.540		0.461		0.542		0.474		0.445		0.532		4.532			
710-23-81	8" SOLID TRAFFIC STRIPE (WHITE)	NM					0.145		0.268		0.114		0.056		0.106		0.120		0.170		0.174		1.153			
710-24-61	6" SOLID TRAFFIC STRIPE (YELLOW)	NM			0.272		0.530		0.402		0.589		0.512		0.614		0.494		0.507		0.594		4.514			
710-25-121	12" SOLID TRAFFIC STRIPE (WHITE)	LF					319		432		484		351		490		342		366		269		3053			
710-25-181	18" SOLID TRAFFIC STRIPE (WHITE)	LF					164		485		30		14		25		222		207		138		1285			
710-25-241	24" SOLID TRAFFIC STRIPE (WHITE)	LF					78		115		106		48		107		83		51		71		659			
710-26-81	8" SOLID TRAFFIC STRIPE (YELLOW)	LF																								
710-26-181	18" SOLID TRAFFIC STRIPE (YELLOW)	LF																								
710-27	6" 2-4, 6-10 SKIP TRAFFIC STRIPE (WHITE)	LF					58		58												98		214			
710-28	6" 2-4, 6-10 SKIP TRAFFIC STRIPE (YELLOW)	LF					12				32		13		21						14		92			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
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12701 World Plaza Lane
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George R. Brinson, P.E. #47607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TABULATION OF QUANTITIES

SHEET NO. S-3

$USERS

09/12/2005 02:22:55 PM P:\99012.201\cadd\signing\tabqsp01.dgn

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-19		S-20		S-21		S-22		S-23A		S-23B		S-23C										
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
700-40-1	SIGN SINGLE POST (LESS THAN 12 SQ. FT.)	AS																			30		65		
	D2-1 (24x24)				1																				
	D3(12x30) (4)																								
	M2-1 (21x15), M1-6S (24x24)				3																				
	M2-1 (21x15), M1-6S (24x24), M6-4 (21x15)																								
	M3-1 (12x24), M1-6S (24x24)																								
	M3-3 (12x24), M1-6S (24x24)				1																				
	R2-1 (30x36)				1				1																
	R3-2 (24x24)		1		1																				
	R3-7R (30x30)				3																				
	R3-7R (30x30), W16-2A (24x18)		1																						
	R4-7R (30x36), R3-4 (24x24)						1		1																
	R4-7R (30x36), OM1-1 (18x18)						1		1																
	R5-1 (36x36)						1		1																
	R5-1 (36x36), R6-1R (36x12)		2		1																				
	R6-1R (36x12)																								
	R6-1R (36x12) (2), OM1-1 (18x18) (2)				1		1		1																
	R6-1R (36x12), OM1-1 (18x18)				1																				
	W11-8 (36x36)																								
	W1-2R (36x36)						1																		
	W3-3 (36x36)						1																		
	W6-3 (36x36)						1		1																
	ADOPT ROAD																								
700-40-2	SIGN SINGLE POST (12 TO 25 SQ. FT.)	AS																			17		38		
	I-8, M6-3 (21x15), D9-2, M5-1R (21x15)				1																				
	M1-6S (24x24) (3), M6-1L (21x15), M6-1R (21x15),				1																				
	AND M6-3 (21x15), M3-2 (12x24), M3-4 (24x12)																								
	M1-6S (24x24) (2), M6-4 (21x15), M6-3 (21x15)				2																				
	R1-1 (36x36), D3 (12x30) (4)										2														
	R1-1 (36x36), R3-2 (24x24), D3 (12x30) (4)		2		4		2		2																
	R1-1 (36x36), R6-3A (24x18), D3 (12x30) (4)										1														
	W6-1 (36x36), W6-2 (36x36), R3-4 (24x24)																								
700-41-10	MULTI-POST (50 OR LESS SQ. FT.)	AS																			3		5		
	D2-1		1				1		1																
	D30																								
700-46-11	SIGN EXISTING (SINGLE POST) (REMOVE)	AS	2		12		4		3		2		2		4						29		70		
700-46-21	SIGN EXISTING (SINGLE POST) (RELOCATE)	EA			3																3		5		
705-71	TUBULAR DELINEATOR (FLEXIBLE)	EA	4		2																6		22		
705-10-12	MARKER OBJECT (POST MOUNTED) (TYP. 2)	EA	2										2		2						6		8		
705-10-14	MARKER OBJECT (POST MOUNTED) (TYP. END OF ROAD)	EA																					6		
706-3	REFELCTIVE PAVEMENT MARKER	EA																							
	REFLECTIVE PAVEMENT MARKER (A/A)		20		40		38		24		52										615		2202		
	REFLECTIVE PAVEMENT MARKER (C/R)		80		89		13		14																
	REFLECTIVE PAVEMENT MARKER (A/R)				11																				
	REFLECTIVE PAVEMENT MARKER (MD/A)		76		63		20		24																
	REFLECTIVE PAVEMENT MARKER (MD/C)		34		17																				
710-6	DIRECTIONAL ARROWS (PAINTED)	EA																							
	LEFT DIRECTIONAL ARROW		7		8		3		3												39		81		
	RIGHT DIRECTIONAL ARROW				6																				
	RIGHT TURN-THRU COMBINATION DIRECTIONAL ARROW						6		6																
710-7	PAVEMENT MESSAGES (PAINTED)	EA																							
	ONLY PAVEMENT MESSAGE				6																6		6		
710-5-2	DOTTED SKIP TRAFFIC STRIPE (YELLOW)	LF					4														4		144		
710-11	MARKINGS PAINT REMOVAL	SF			464.8																464.8		464.8		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICKY MARCINKIEWICZ & ASSOC., INC.
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TABULATION OF QUANTITIES

SHEET NO. S-4

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-19		S-20		S-21		S-22		S-23																
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
710-21	6" 10/30 SKIP TRAFFIC STRIPE (WHITE)	GM	0.410		0.231																		0.641		4.017		
710-23-61	6" SOLID TRAFFIC STRIPE (WHITE)	NM	0.477		0.588		0.340		0.305		0.336												2.046		6.578		
710-23-81	8" SOLID TRAFFIC STRIPE (WHITE)	NM	0.118		0.052																		0.17		1.323		
710-24-61	6" SOLID TRAFFIC STRIPE (YELLOW)	NM	0.522		0.387		0.427		0.348		0.338												2.022		6.536		
710-25-121	12" SOLID TRAFFIC STRIPE (WHITE)	LF	333		862		106		112		152												1565		4618		
710-25-181	18" SOLID TRAFFIC STRIPE (WHITE)	LF	30		16																		46		1331		
710-25-241	24" SOLID TRAFFIC STRIPE (WHITE)	LF	52		233		44		47		55												431		1090		
710-26-81	8" SOLID TRAFFIC STRIPE (YELLOW)	LF			494																		494		494		
710-26-181	18" SOLID TRAFFIC STRIPE (YELLOW)	LF			56		44		45														145		145		
710-27	6" 2-4, 6-10 SKIP TRAFFIC STRIPE (WHITE)	LF																							214		
710-28	6" 2-4, 6-10 SKIP TRAFFIC STRIPE (YELLOW)	LF	29		14																		43		135		

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PEDRAZA BARTENSTEIN & ASSOC., INC.
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DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

TABULATION OF QUANTITIES

SHEET NO. S-5

$USER$ 09/12/2005 02:22:56 PM P:\99012.201\cadd\signing\tabasp01.dgn

SIGNING AND PAVEMENT MARKING GENERAL NOTES:

1. ALL FLORIDA ROUTE MARKERS MUST CONFORM TO F.D.O.T. STANDARD INDEX NO. 17355.
2. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX.
3. ALL POSTS FOR SINGLE COLUMN SIGNS SHALL BE 2", 14 GAGE STEEL SQUARE TUBE POSTS WITH 7/16" PRE-PUNCHED HOLES ON 1" CENTERS ON ALL FOUR SIDES.
4. REFER TO F.D.O.T. STANDARD INDEX NO. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
5. PAINT ALL MEDIAN NOSES REFLECTIVE YELLOW OR REFLECTIVE WHITE AS INDICATED ON THE DETAILS SHOWN ON THIS SHEET.
6. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
8. ALL ROUTE MARKERS AUXILIARIES SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.
9. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM NO. 102-1.
10. CONTRACTOR SHALL USE 2", 14 GAGE STEEL SQUARE TUBE POSTS WITH 7/16" PRE-PUNCHED HOLES ON 1" CENTERS ON ALL FOUR SIDES FOR MULTI-POST SIGNS. THE ASSEMBLY TO INCLUDE Z-BAR FOR BRACING OR ALUMINUM CHANNELING MAY BE SUBSTITUTED.
11. ALL PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED IN THE PLANS. THE QUANTITIES FOR PAVEMENT MARKINGS INDICATED IN THE SIGNING AND PAVEMENT MARKING PLANS ARE INCLUDED IN THE QUANTITIES FOR PAVEMENT MARKINGS SHOWN IN THE SUMMARY OF ROADWAY PAY ITEMS.
12. ALL EXISTING SIGNS BETWEEN STATIONS 1690+77.89 AND 1703+75.00 SHALL REMAIN UNLESS OTHERWISE NOTED. ALL EXISTING SIGNS BETWEEN STATIONS 1703+75.00 AND 229+75.24 SHALL BE REMOVED UNLESS OTHERWISE NOTED.
13. ALL SIGN REMOVAL SHALL INCLUDE COMPLETE REMOVAL OF THE SIGN SUPPORT FOUNDATION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL SIGNS THAT ARE TO BE PERMANENTLY REMOVED FROM THIS PROJECT.
15. ALL SIGN POSTS WHICH ARE EMBEDDED IN ASPHALT OR CONCRETE (MEDIANS/ISLANDS) SHALL BE INSTALLED IN AN 6" DIAMETER PVC PIPE SLEEVE ONLY WHERE SIGNS ARE SHOWN TO BE PLACED. CASE NO. VIII, INDEX 17302.
16. THE PERMANENT REMOVAL OF SIGNS WITHIN THE LIMITS OF THIS PROJECT IS NOT REQUIRED IF THEY ARE NOT SHOWN IN THESE PLANS. ANY REQUIRED ADJUSTMENT OF THESE SIGNS BY THE CONTRACTOR SHALL BE COVERED UNDER SECTION 7-11.4 OF THE FDOT STANDARD SPECIFICATIONS.
17. ALL TRAFFIC SIGNS SHALL BE OVERSIZED AS SHOWN ON THE PLANS, AND HAVE A MINIMUM DIAMOND GRADE SHEETING PER LCDOT REQUIREMENTS.

PAY ITEM NOTE:

710- PAVMENT MARKING QUANTITIES SHOWN ON THE SIGNING AND PAVMENT MARKING TABULATION SHEET ARE FOR ONE APPLICATION. TWO APPLICATIONS OF PAVEMENT MARKINGS ARE REQUIRED.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PH&A ENGINEERS
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING GENERAL NOTES

SHEET NO. S-6

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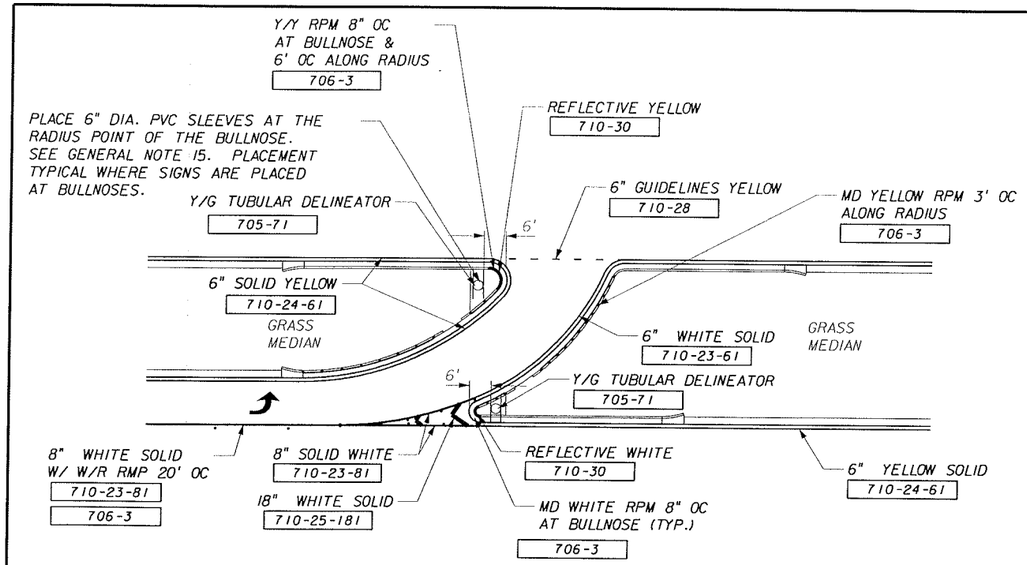
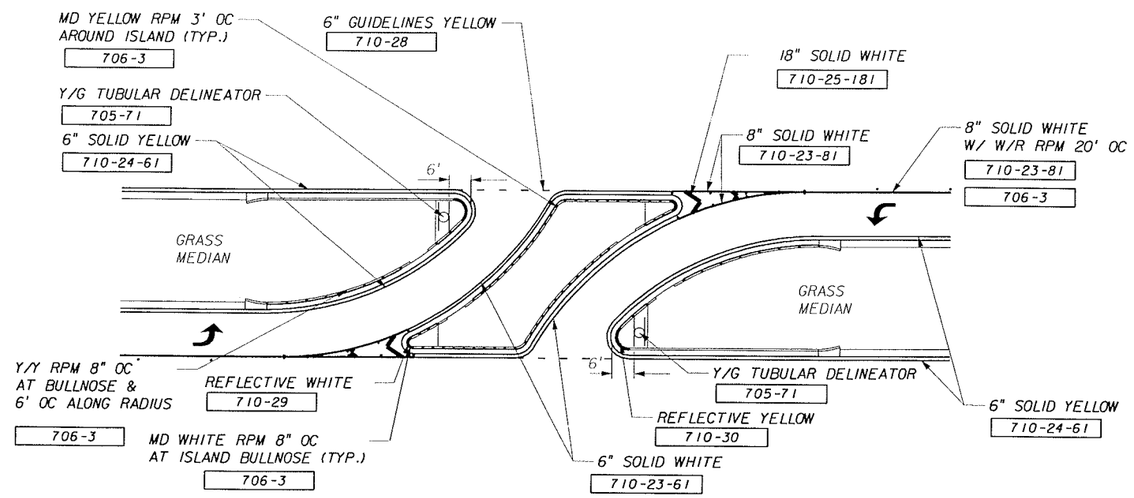


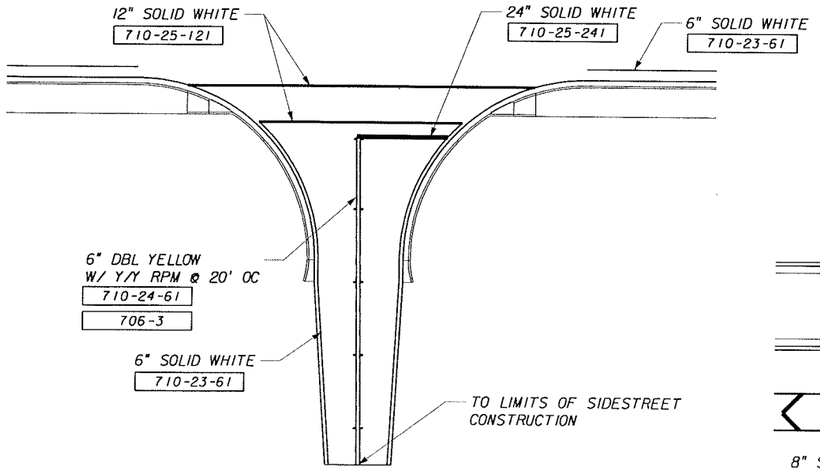
TYPICAL DIRECTIONAL MEDIAN OPENING



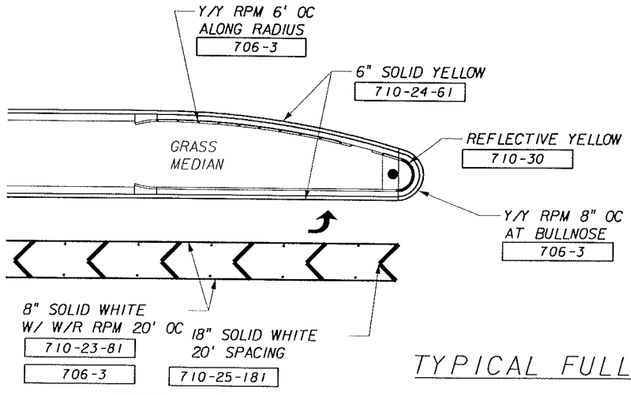
TYPICAL BI-DIRECTIONAL MEDIAN OPENING

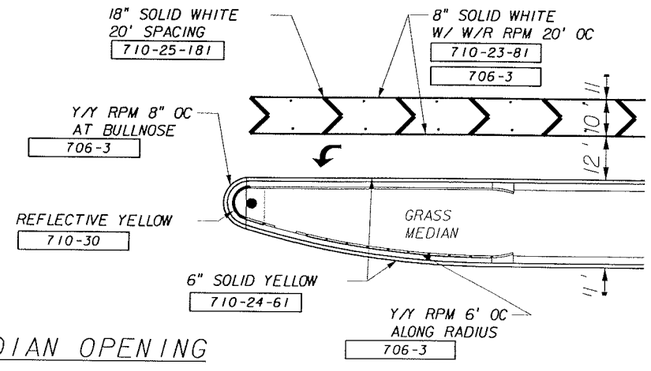
NOTE:
1. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON TOP OF THE CURB FOR TYPE "D" OR "F", ON TOP OF SEPARATOR OR ON PAVEMENT ADJACENT TO TYPE "E" CURB.

2. FURNISH AND INSTALL REFLECTIVE PAINT ON THE FACE OF CURB FOR THE LIMITS SHOWN IN THE DETAILS AND PLANS. REFLECTIVE PAINT SHALL BE PAID FOR AS 6" YELLOW (LF).



TYPICAL SIDE STREET PAVEMENT MARKING





TYPICAL FULL MEDIAN OPENING

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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING & PAVT. MARKING TYPICAL DETAILS

SHEET NO. S-7

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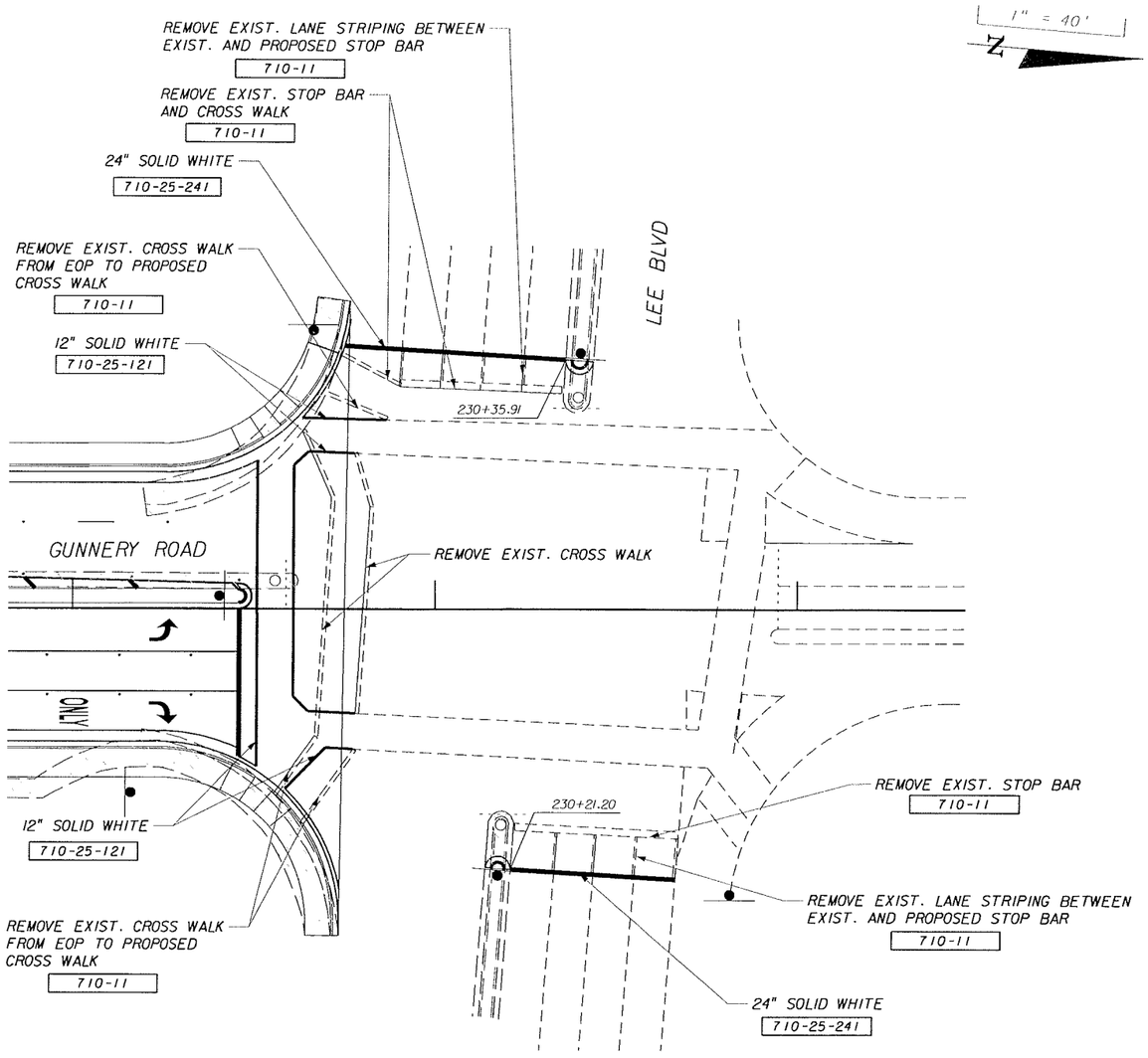

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • BAKER • FISH & ASSOC., INC.
ENGINEERS
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING & PAVT. MARKING INTERSECTION DETAIL

SHEET NO.
S-8

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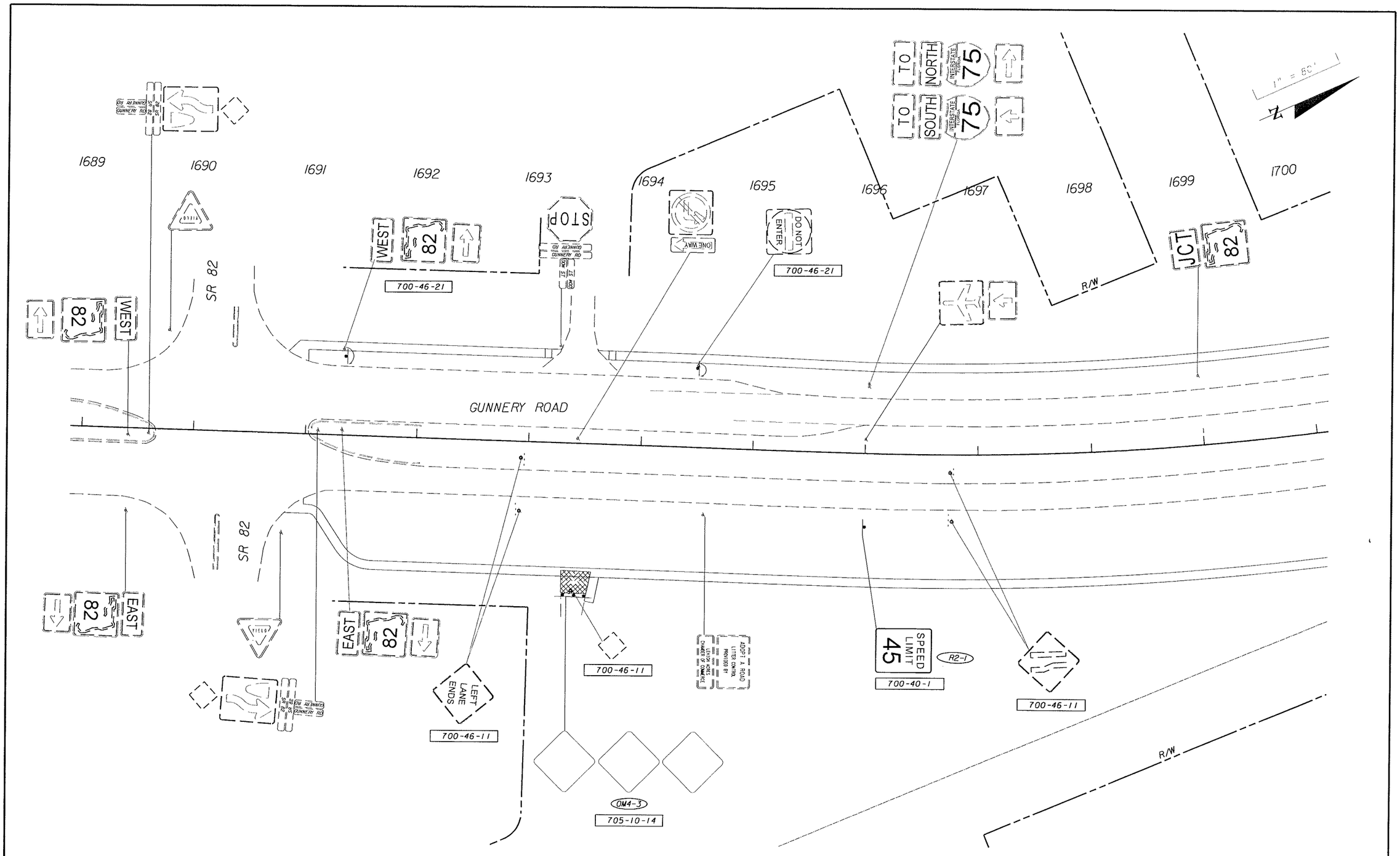

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAR • HARTENSTEIN & ASSOC., INC.
ENGINEERS
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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-9

1" = 80'

N

1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711

R/W

BEGIN SIGNING AND PAVEMENT MARKINGS
MATCH EXISTING MARKINGS
Sta. 1703+75.02, 0.00 RT

6" SOLID WHITE
710-23-61

10' - 30' WHITE SKIP
W/ W/R RPM 40' OC
710-21
706-3

6" SOLID YELLOW
710-24-61

700-46-11

12'

12'

GUNNERY ROAD

6" SOLID YELLOW
710-24-61

10' - 30' WHITE SKIP
W/ W/R RPM 40' OC
710-21
706-3

6" SOLID WHITE
710-23-61

R/W

R/W

700-46-11

700-46-11

700-46-11

DO NOT ENTER

700-46-11

OM4-3
18x18
705-10-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PINDER TROXLER & ASSOC., INC.
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-10

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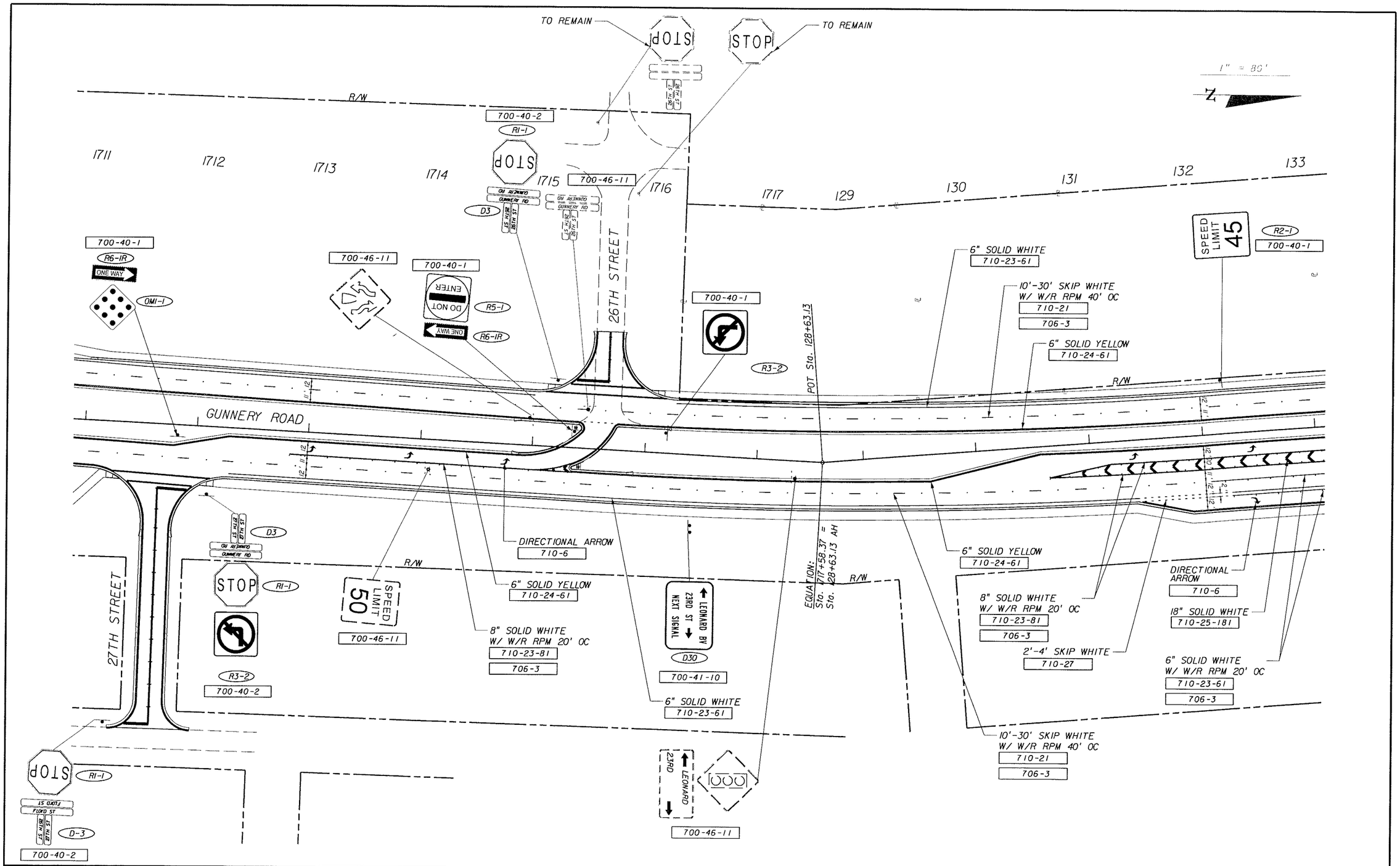

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
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4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-11

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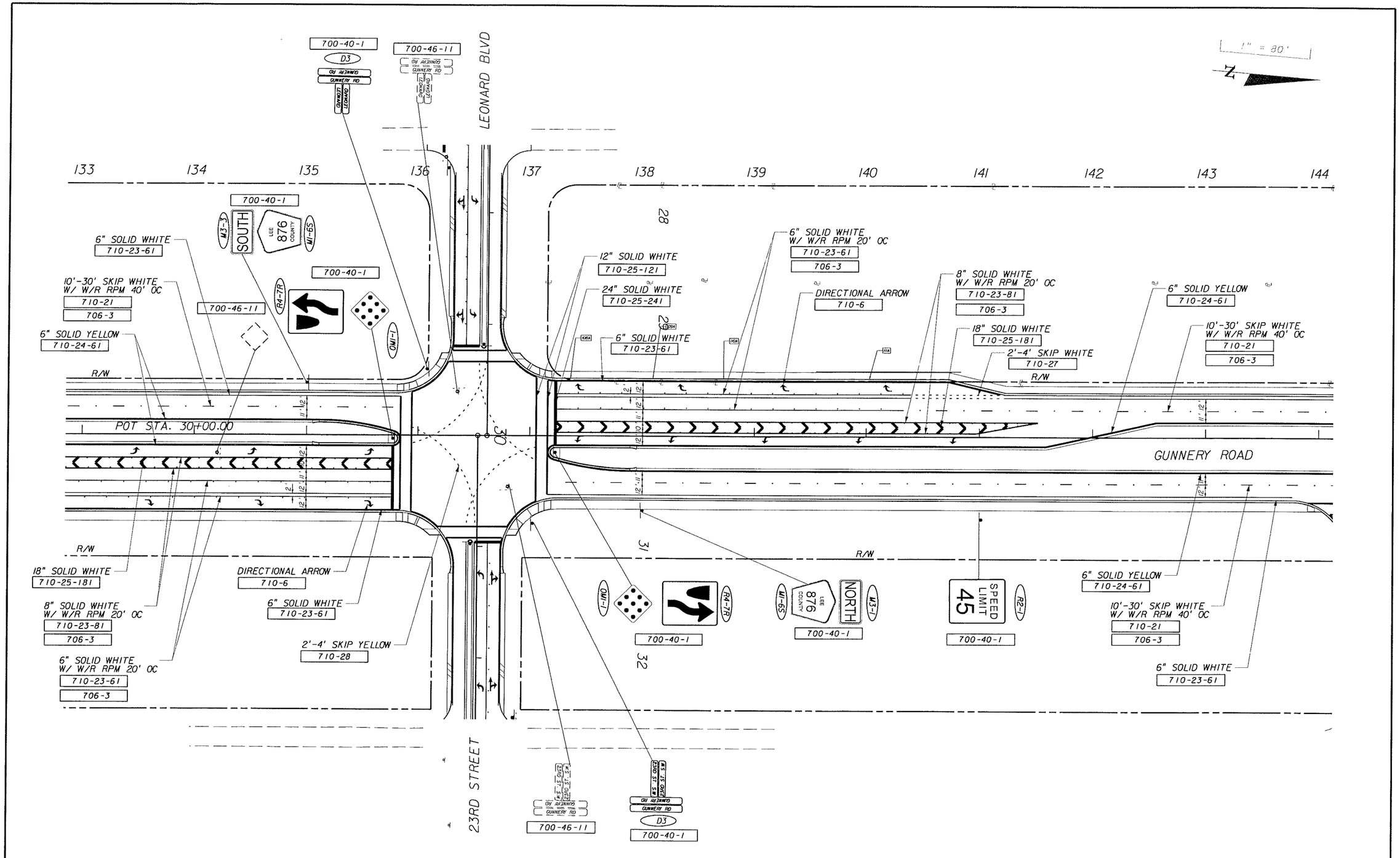

REVISIONS					
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4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.
S-12

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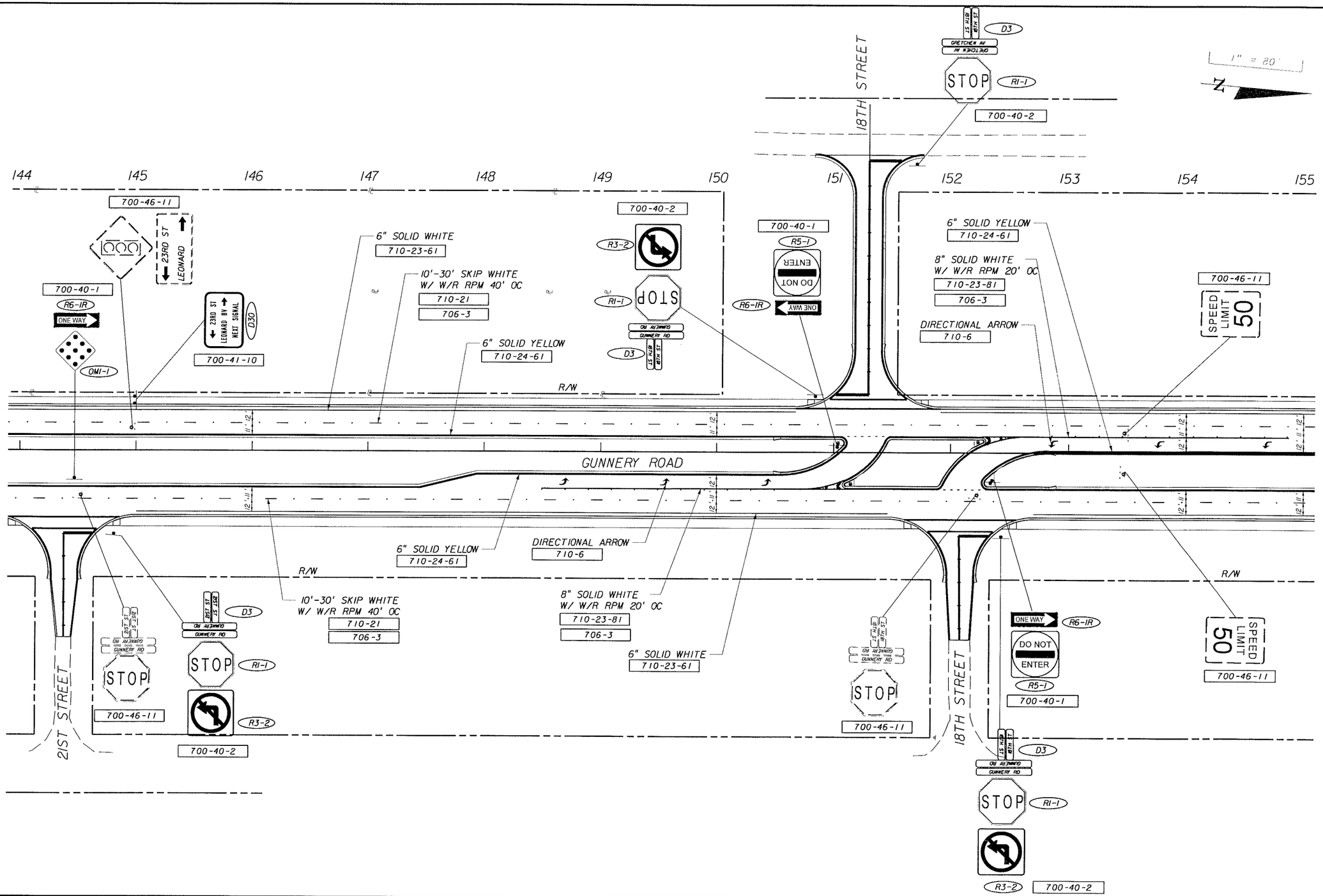

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIJMAN HARTENSTEIN & ASSOC. INC.
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-13

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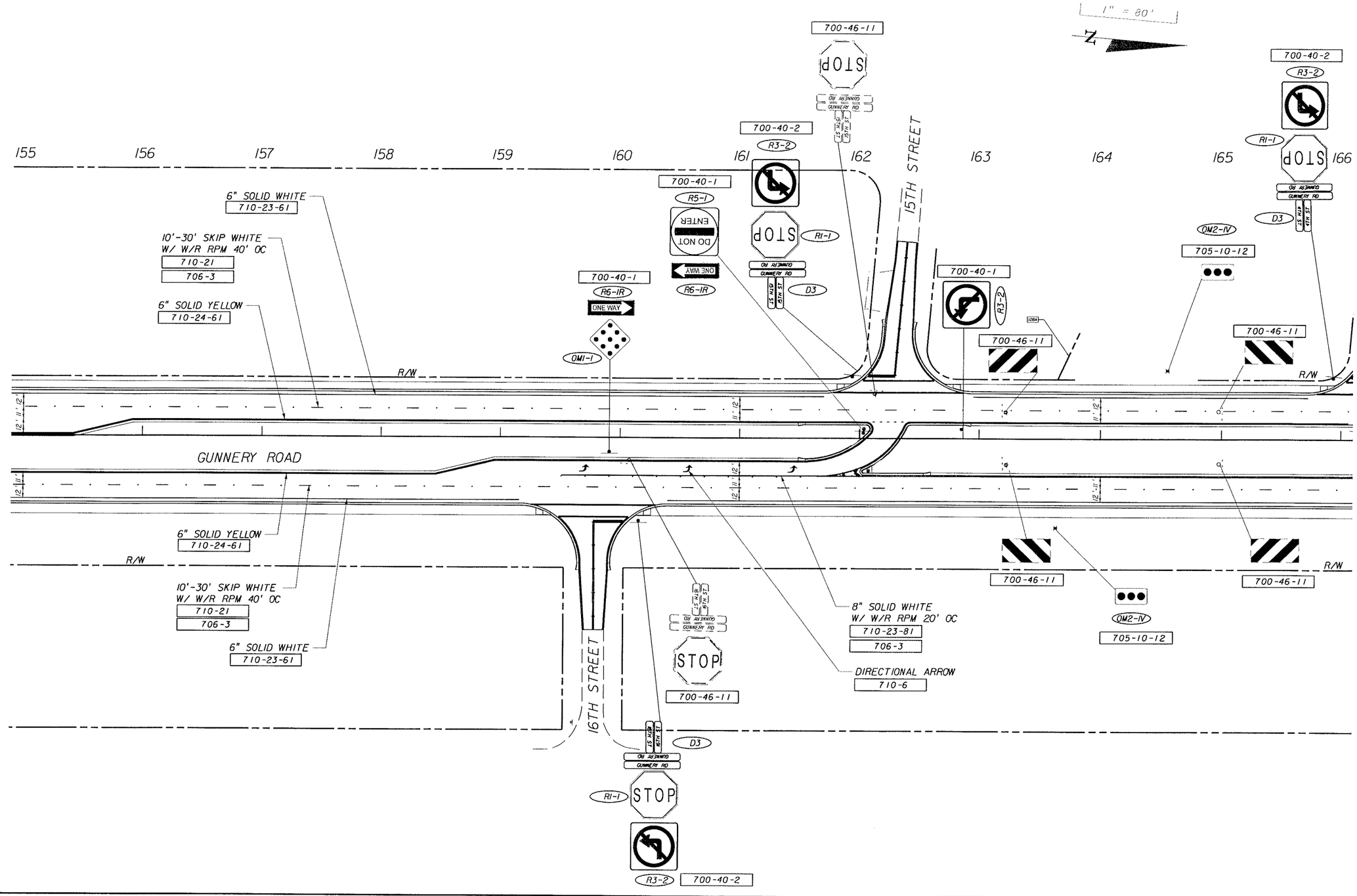

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMAN • BARTLETTON & ASSOC., INC.
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LEE COUNTY
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COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.
S-14

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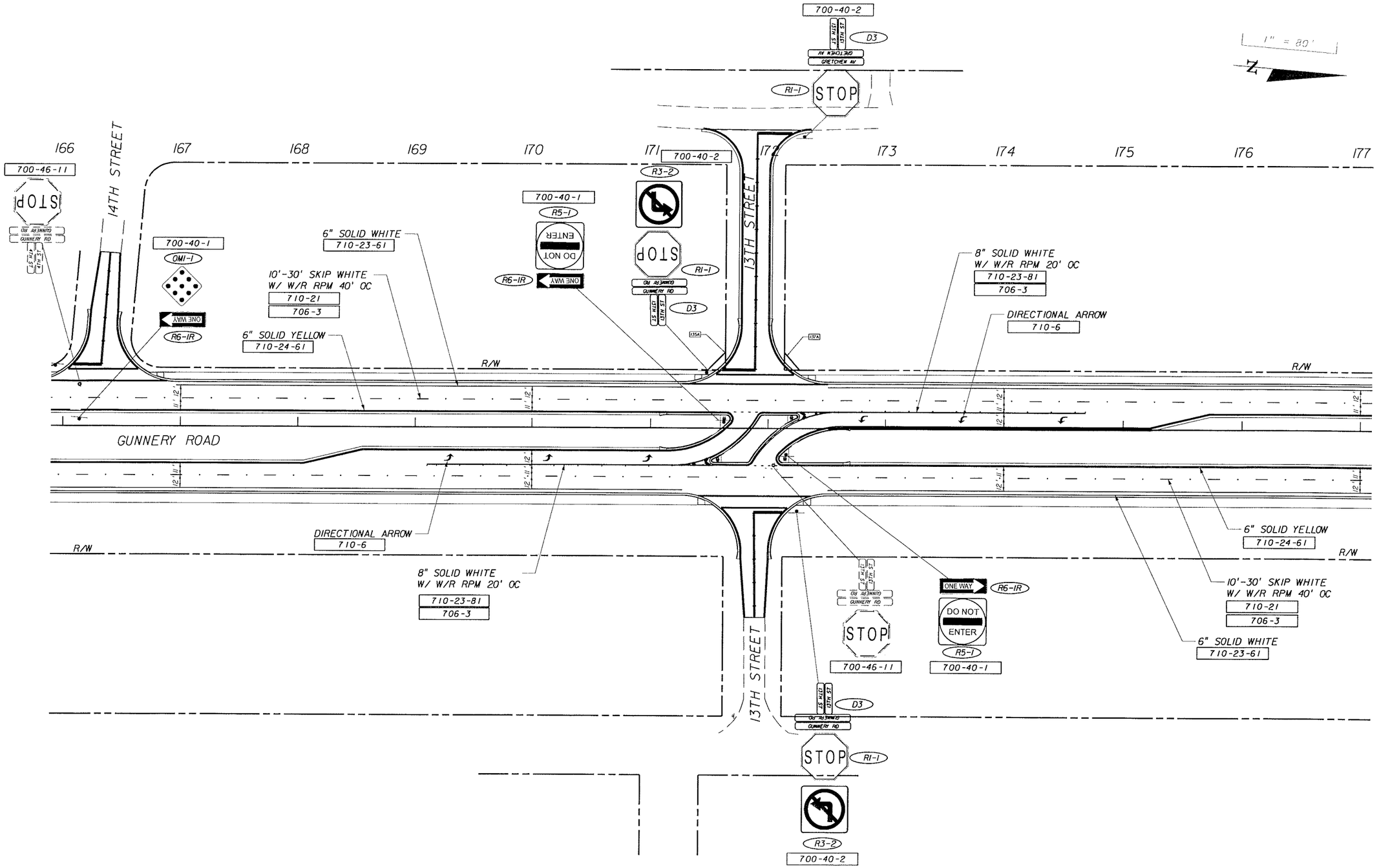

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIPKIN • HANTZSTEIN & ASSOC. INC.
ENGINEERS
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNNG AND PAVEMENT MARKING PLANS

SHEET NO. S-15

09/12/2005 02:23:11 PM P:\99012.201\cadd\signing\plansp07.dgn

1" = 80'

N

177 178 179 180 181 182 183 184 185 186 187 188

8TH STREET

10TH STREET

GUNNERY ROAD

R/W

11'-12'

12'-14'

700-40-2 STOP R1-1

GRETCHEN IN

1ST 8TH ST

D3

700-40-2 DIVIDED HIGHWAY R6-3A

STOP R1-1

GUNNERY RD

700-40-1 R6-1R ONE WAY OM1-1

700-40-1 SPEED LIMIT 45 R2-1

700-40-1 R4-7 OM1-1

6" SOLID WHITE 710-23-61

10'-30' SKIP WHITE W/W/R RPM 40' OC 710-21 706-3

6" SOLID YELLOW 710-24-61

6" SOLID YELLOW 710-24-61

10'-30' SKIP WHITE W/ W/R RPM 40' OC 710-21 706-3

6" SOLID WHITE 710-23-61

DIRECTIONAL ARROW 710-6

18" SOLID WHITE 710-25-181

8" SOLID WHITE W/ W/R RPM 20' OC 710-23-81 706-3

STOP 700-46-11

STOP R1-1 700-40-2

STOP 700-46-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
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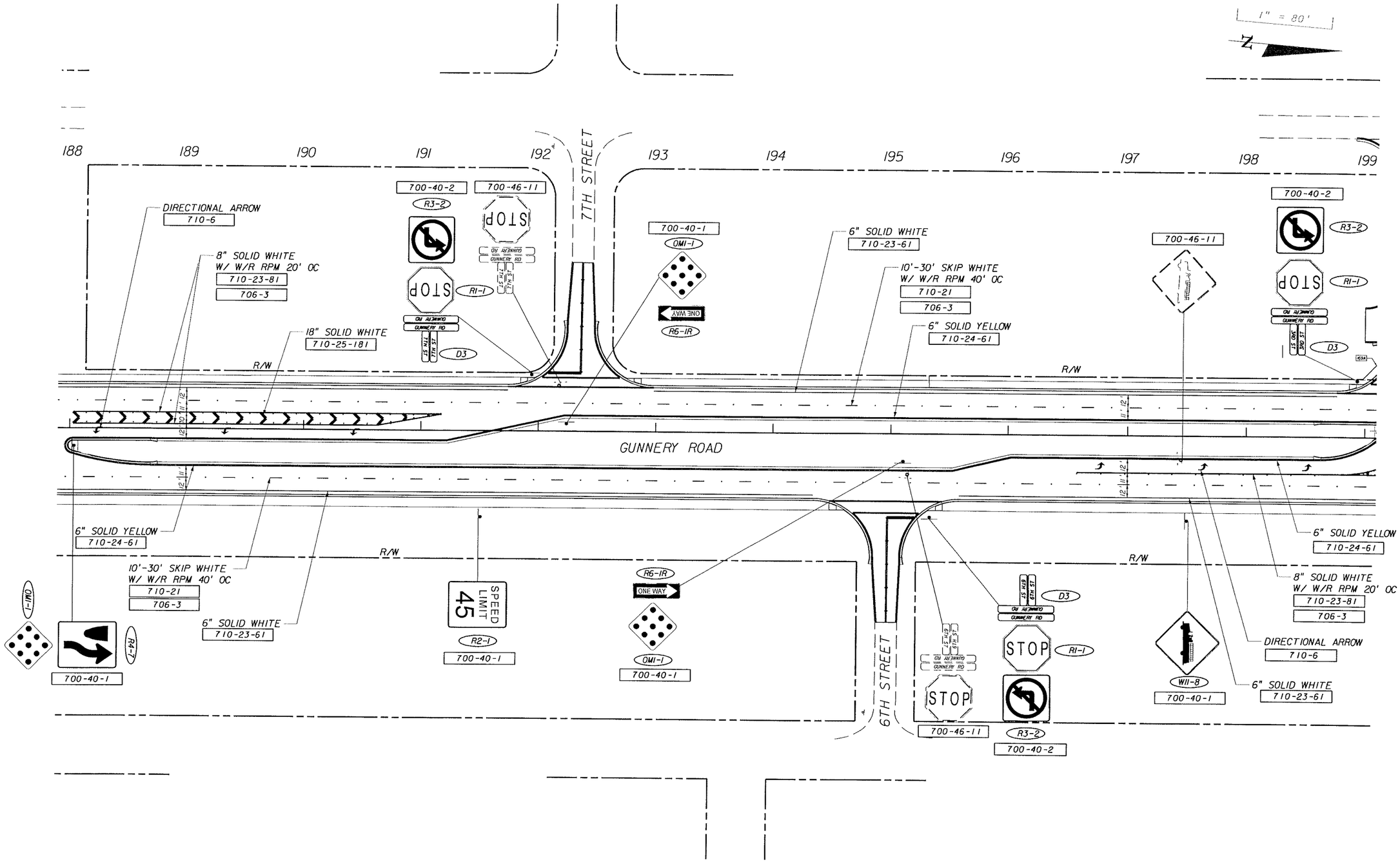
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-16

09/12/2005 02:23:12 PM P:\99012.201\cadd\signing\plansp28.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICKY HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-17

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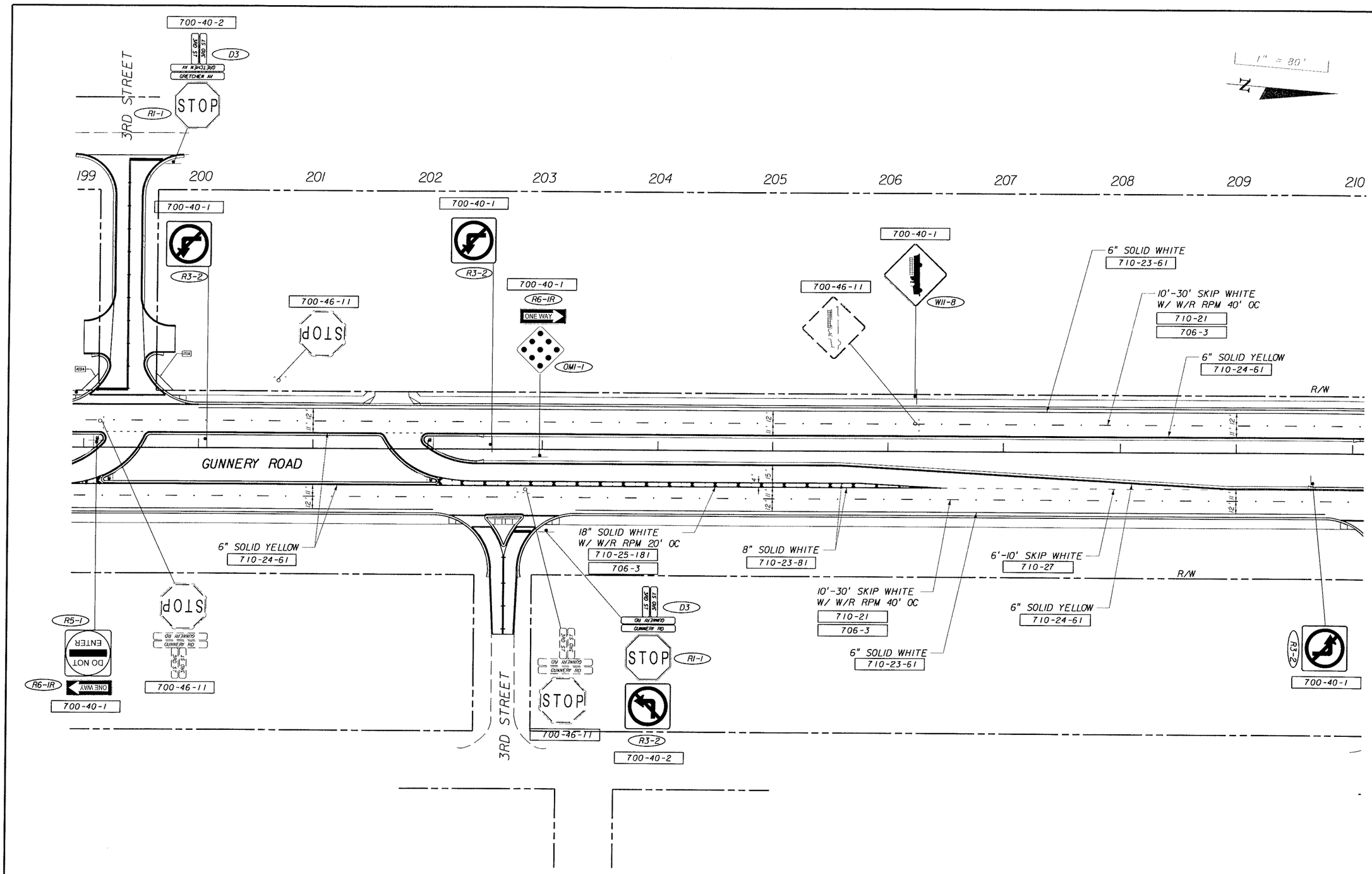

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIVNICK HARTENSTEIN & ASSOC. INC
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-18

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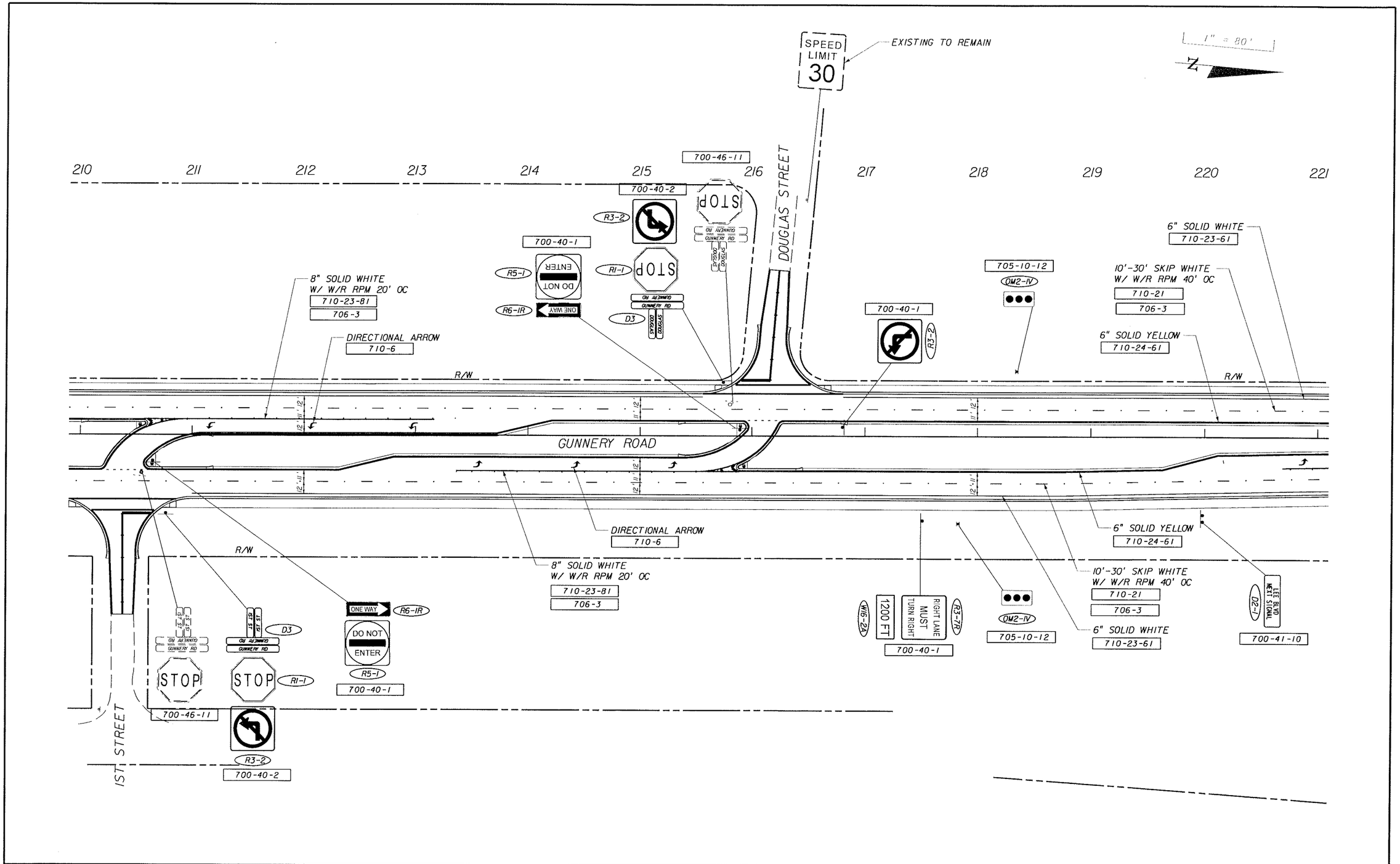

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • BARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.
S-19

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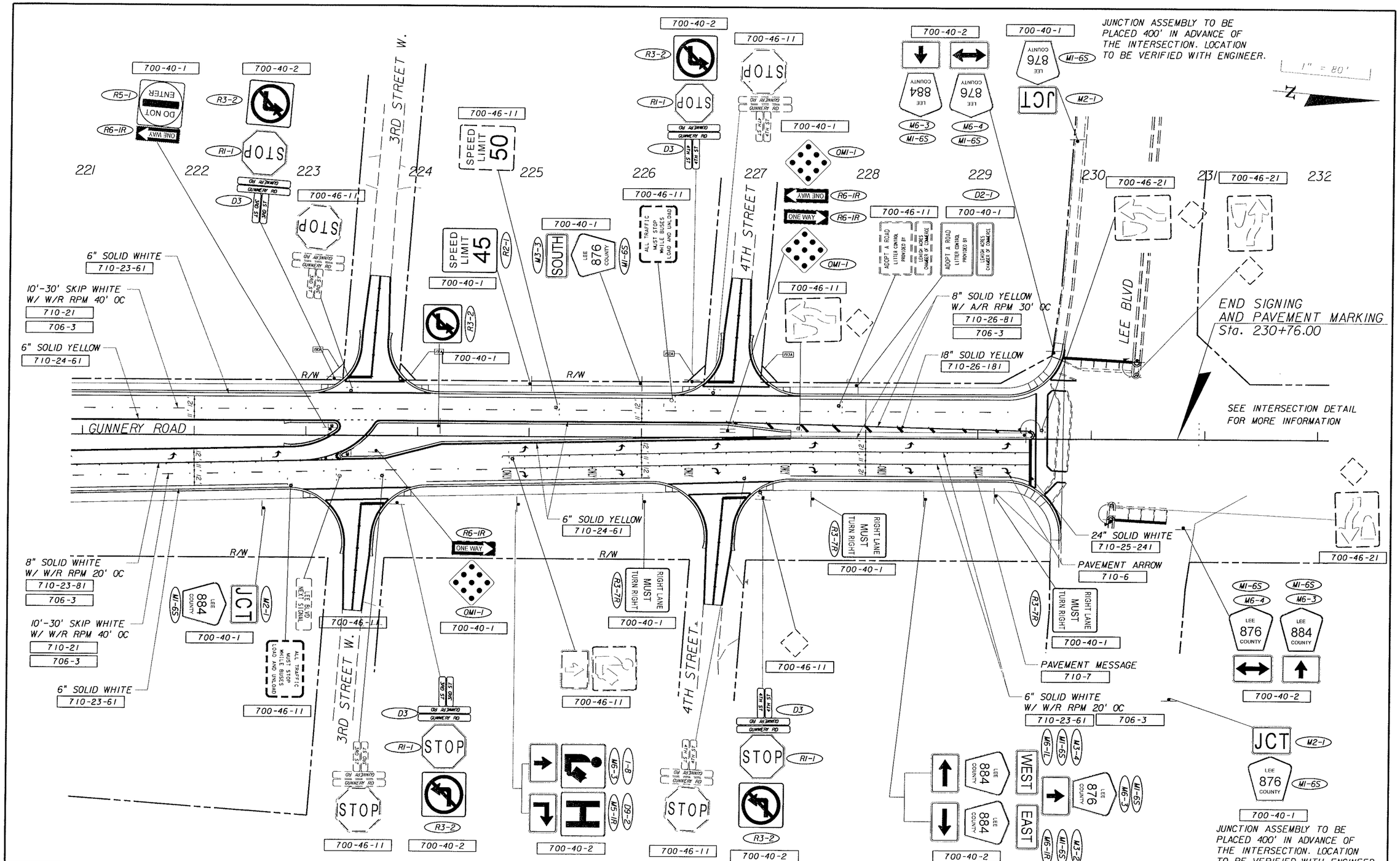

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

REMARK HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-20

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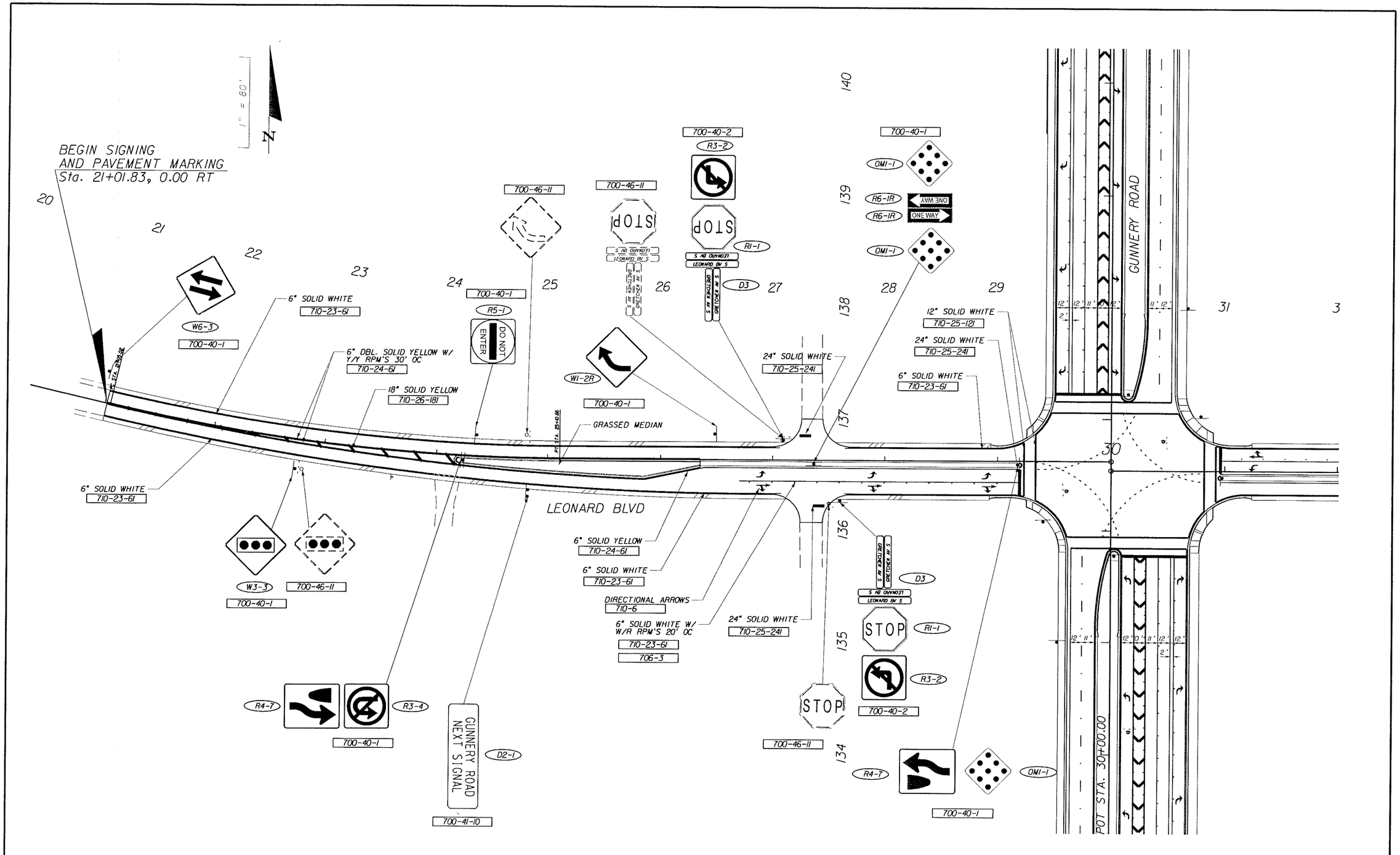

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
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EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.
S-21

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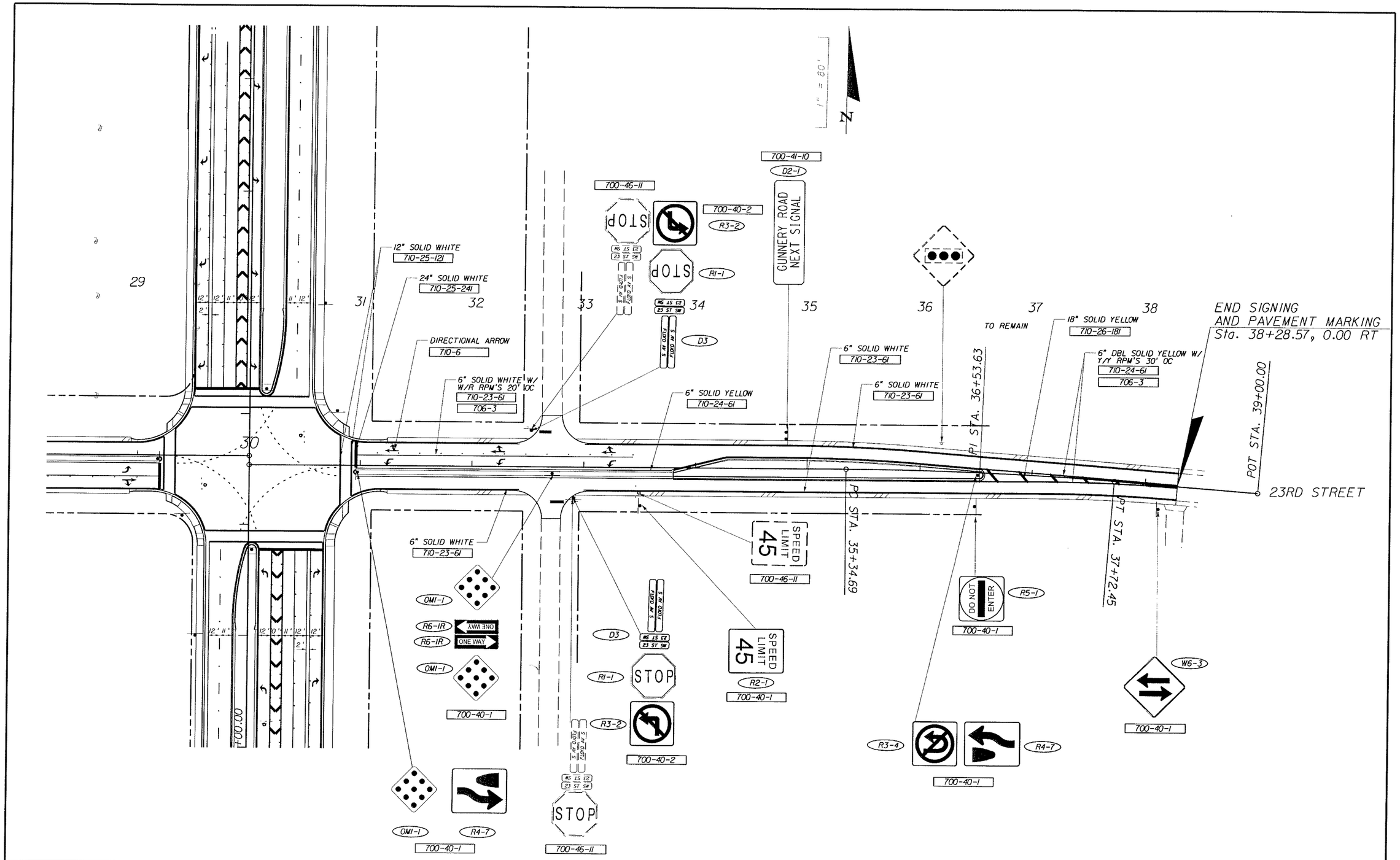

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. •47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.
S-22

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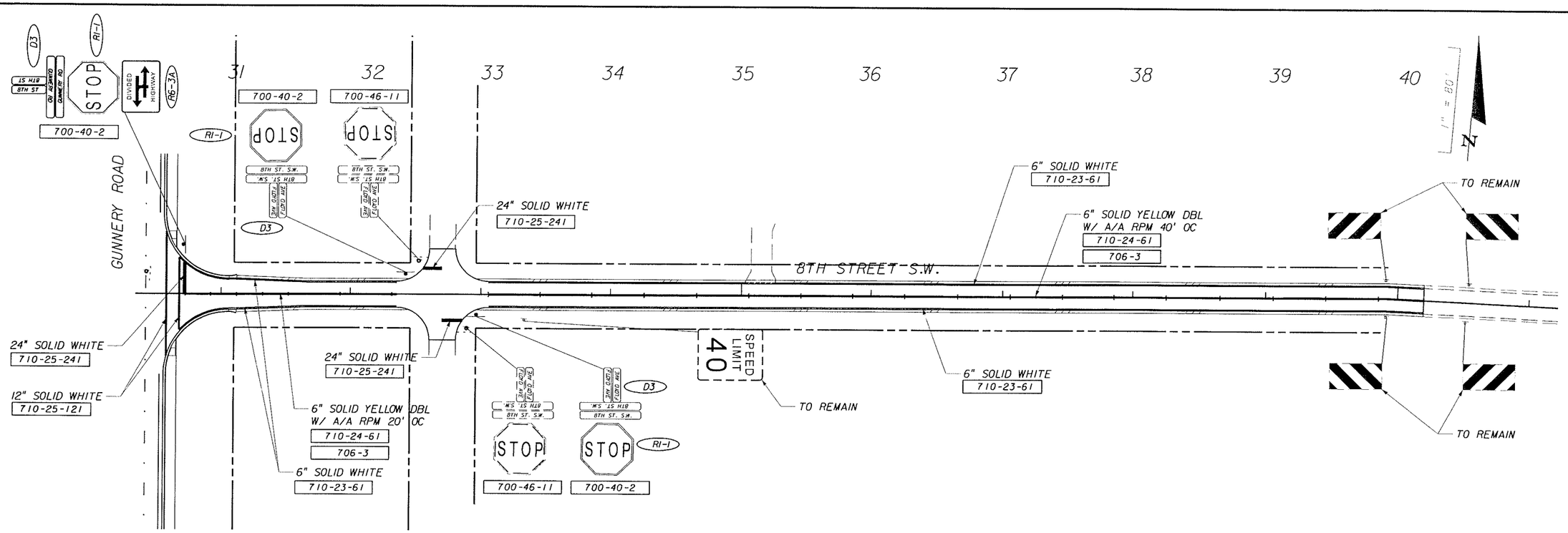
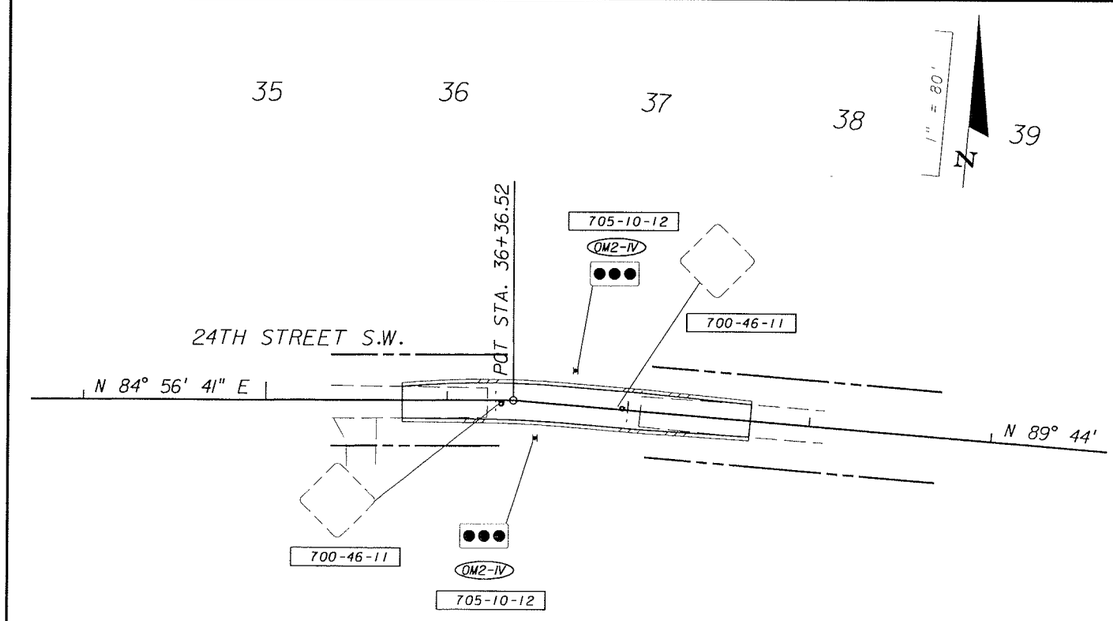
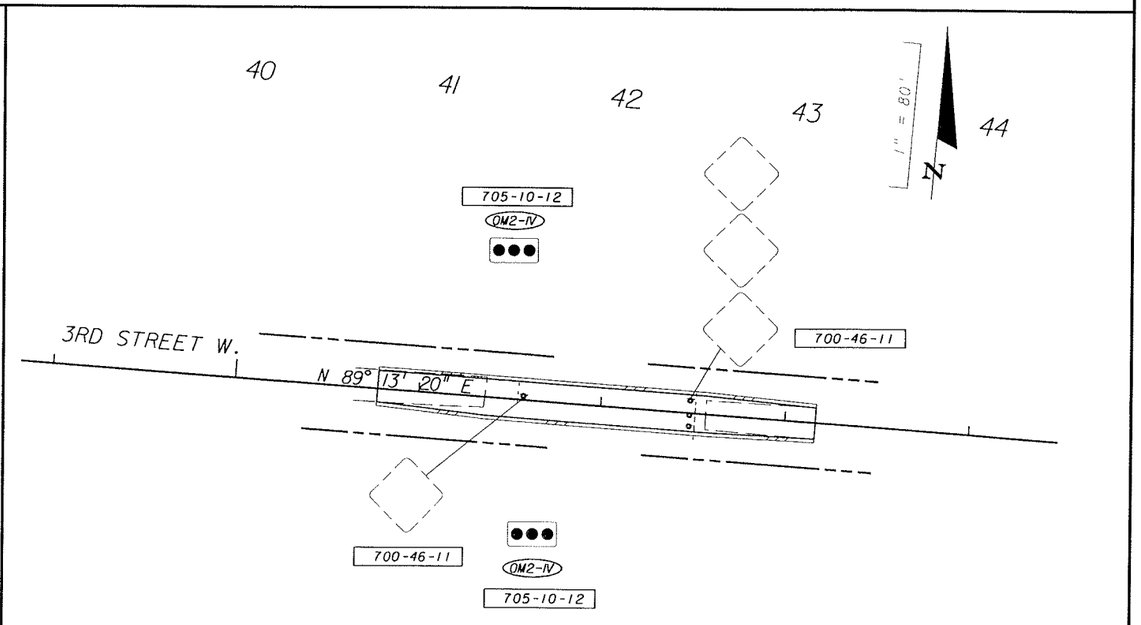






REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PIEMANN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

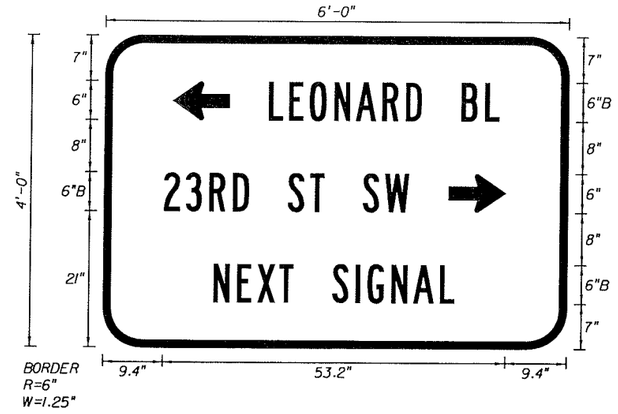
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. S-23

09/12/2005 02:23:22 PM P:\99012.201\cadd\signing\plansp15.dgn

SIGN DETAIL



SIGN NUMBER	001
WIDTH	6'-0"
HEIGHT	4'-0"
BORDER WIDTH	1.25"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

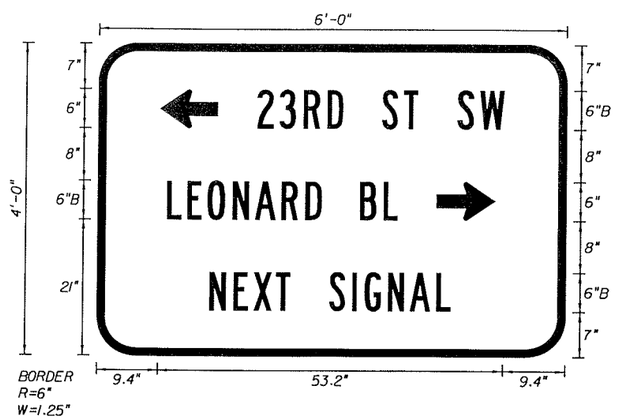
SYMBOL	X	Y	WID	HT
ARUP	10.6	35	6	9
ARUP	53.6	21	6	9	

SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH
		STEEL	ALUMINUM	

LETTER SPACING

FONT/HEIGHT																																						LENGTH
B6		L	E	O	N	A	R	D		B	L																													35.7
	25.6	3.1	3.1	3.8	3.4	4.1	3.7	2.6	6	3.7	2.3	10.6																												
B6		2	3	R	D		S	T		S	W																													38.2
	9.4	3.4	3.7	3.7	2.6	6	3.4	2.3	6	3.4	3.8	24.4																												
B6		N	E	X	T		S	I	G	N	A	L																												37.4
	17.3	3.7	3.1	3.4	2.3	6	3.7	1.9	3.7	3.4	4.1	2.3	17.3																											

SIGN DETAIL



SIGN NUMBER	002
WIDTH	6'-0"
HEIGHT	4'-0"
BORDER WIDTH	1.25"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

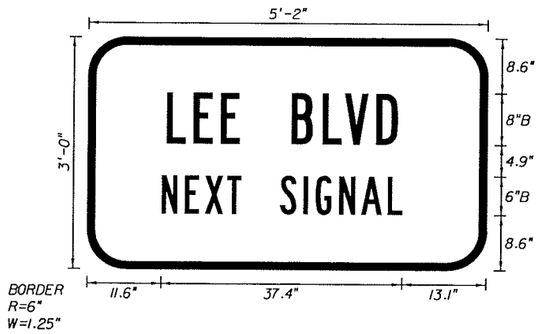
SYMBOL	X	Y	WID	HT
ARUP	9.4	35	6	9
ARUP	52.4	21	6	9

SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH
		STEEL	ALUMINUM	

LETTER SPACING

FONT/HEIGHT																																						LENGTH
B6		2	3	R	D		S	T		S	W																													38.2
	24.4	3.4	3.7	3.7	2.6	6	3.4	2.3	6	3.4	3.8	9.4																												
B6		L	E	O	N	A	R	D		B	L																													35.7
	10.6	3.1	3.1	3.8	3.4	4.1	3.7	2.6	6	3.7	2.3	25.6																												
B6		N	E	X	T		S	I	G	N	A	L																												37.4
	17.3	3.7	3.1	3.4	2.3	6	3.7	1.9	3.7	3.4	4.1	2.3	17.3																											

SIGN DETAIL



SIGN NUMBER	003
WIDTH	5'-2"
HEIGHT	3'-0"
BORDER WIDTH	1.25"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH
		STEEL	ALUMINUM	

LETTER SPACING

FONT/HEIGHT																																						LENGTH
B8		L	E	E		B	L	V	D																															35.9
	12.3	4.2	4.2	3	8	4.9	3.4	4.9	3.4	13.8																														
B6		N	E	X	T		S	I	G	N	A	L																													37.4
	11.6	3.7	3.1	3.4	2.3	6	3.7	1.9	3.7	3.4	4.1	2.3	13.1																											

SIGN DETAIL

THIS SPACE PURPOSELY LEFT BLANK

SIGN NUMBER	
WIDTH	
HEIGHT	
BORDER WIDTH	
CORNER RADIUS	
MOUNTING	
BACKGROUND	TYPE:
	COLOR:
LEGEND/BORDER	TYPE:
	COLOR:

SYMBOL	X	Y	WID	HT

SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH
		STEEL	ALUMINUM	

LETTER SPACING

FONT/HEIGHT																																						LENGTH

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN-HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

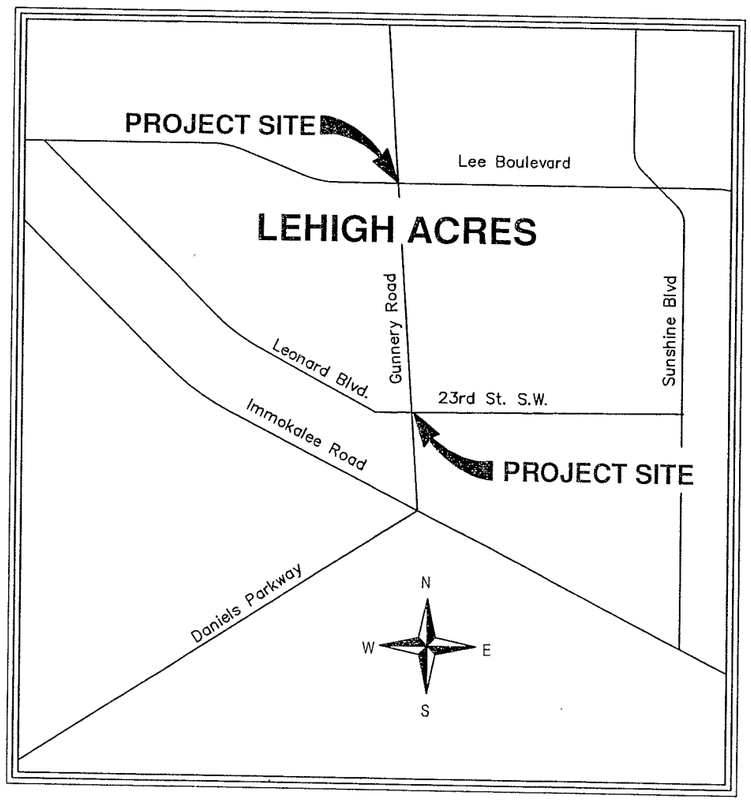
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
4055	LEE	99012.201

GUIDE SIGN DETAILS

SHEET NO. S-24

09/12/2005 02:23:24 PM P:\99012.201\cadd\signing\gswksp02.dgn

LEE COUNTY DEPARTMENT OF TRANSPORTATION
PLANS FOR SIGNALIZATION OF GUNNERY ROAD
AT
LEONARD BOULEVARD
AND AT
LEE BOULEVARD



INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
T-1	COVER
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	SIGNAL DEMOLITION PLAN GUNNERY ROAD @ LEONARD BOULEVARD
T-5	SIGNAL CONSTRUCTION PLAN GUNNERY ROAD @ LEONARD BOULEVARD
T-6	SIGNAL MODIFICATION PLAN GUNNERY ROAD @ LEE BOULEVARD
T-7	POLE SCHEDULE

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MAY BE CONSIDERED WHEN OBTAINING SCALED DATA.
GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2004 AND DESIGN STANDARDS DATED JANUARY 2004. ALSO LEE COUNTY DEPARTMENT OF TRANSPORTATIION PLAN SPECIFICATIONS DATED JANUARY 14, 2004.

JOB NO.	DATE	BY	REVISIONS
F0204.08			

DESIGNED BY	A.J.R.	APPROVED BY:	FINAL SUBMITTAL MARCH 9, 2005
DRAWN BY	A.J.R.	REID C. FELLOWS	
CHECKED BY	R.C.F.	P.E 61673	

METRO TRANSPORTATION GROUP, INC.
12651 McGREGOR BOULEVARD, SUITE 4-403
FORT MYERS, FLORIDA 33919-4489
(941) 278-3090

SIGNALIZATION OF GUNNERY ROAD	SHEET NO.
COVER	T-1

ITEM NO.	DESCRIPTION	UNIT	DEMOLITION GUNNERY & LEONARD	CONSTRUCTION GUNNERY & LEONARD	MODIFICATION GUNNERY & LEE						TOTAL
			T-4	T-5	T-6						
555-1-2	DIRECTIONAL BORE (6" TO 12")	LF		343							343
630-1-12	CONDUIT (UNDERGROUND)	LF		262							262
630-1-13	CONDUIT (UNDER PAVEMENT)	LF			21						21
632-7-1	SIGNAL CABLE	PI		1	1						2
634-4-113	SPAN WIRE ASSEMBLY (BOX)	PI		1							1
635-1-11	PULL BOX	EA		8							8
639-1-22	ELECTRICAL POWER SERVICE (UNDERGROUND)	AS		1							1
639-2-1	ELECTRICAL SERVICE WIRE	LF		100							100
641-16-144	PRESTRESSED CONCRETE POLE	EA		1							1
641-16-146	PRESTRESSED CONCRETE POLE	EA		3							3
650-51-313	TRAFFIC SIGNAL 12" STD. (F&I) (3 SECTION, 1-WAY) (L.E.D.)	AS		8							8
650-51-513	TRAFFIC SIGNAL 12" STD. (F& I) (5 SECTION, 1-WAY) (L.E.D.)	AS		2							2
650-54-311	TRAFFIC SIGNAL (RELOCATE) (3 SECTION, 1-WAY)	AS			1						1
650-54-511	TRAFFIC SIGNAL (RELOCATE) (5 SECTION, 1-WAY)	AS			1						1
653-181	PEDESTRIAN SIGNAL (F&I) (1 SECTION, 1-WAY)	AS		8							8
653-381	PEDESTRIAN SIGNAL (INSTALL)	AS			1						1
659-101	SIGNAL HEAD BACKPLATE (3 SECTION)	AS		6							6
659-107	SIGNAL PEDESTAL (F&I) (ALUMINUM)	EA		7							7
659-307	SIGNAL PEDESTAL (INSTALL)	EA			1						1
660-2-106	LOOP ASSEMBLY (TYPE F)	AS			2						2
663-74-11	VEHICLE DETECTOR ASSEMBLIES (OPTICAL TYPE)	EA		4							4
665-11	PEDESTRIAN DETECTOR STATION (F&I) (POLE MOUNTED)	EA		8							8
665-31	PEDESTRIAN DETECTOR STATION (INSTALL) (POLE MOUNTED)	EA			1						1
670-5-110	ACTUATED SOLID STATE CONTROLLER ASSEMBLY	PI		1							1
690-10	REMOVE TRAFFIC SIGNAL HEAD ASSEMBLY	EA	5								1
690-20	REMOVE PEDESTRIAN SIGNAL ASSEMBLY	EA			1						5
690-31	REMOVE SIGNAL PEDESTAL	EA			1						1
690-32-1	REMOVE POLE (SHALLOW)	EA	2								1
690-50	REMOVE CONTROLLER ASSEMBLY	EA	1								2
690-70	REMOVE PEDESTRIAN DETECTOR ASSEMBLY	EA			1						1
690-80	REMOVE SPAN WIRE ASSEMBLY	EA	1								1
690-90	REMOVE CABLING AND CONDUIT	PI	1								1
690-100	REMOVE MISCELLANEOUS SIGNAL EQUIPMENT	PI			1						1
700-48-18	SIGN PANEL (F&I)	EA		8							8
715-5-5	LUMINAIRE AND BRACKET ARM (REMOVE)	EA	2								2
715-5-11	LUMINAIRE AND BRACKET ARM (F&I))	EA		4							4

JOB NO.	DATE	BY	REVISIONS
F0204.08			

DESIGNED BY A.J.R. | DRAWN BY A.J.R. | CHECKED BY R.C.F. | APPROVED BY: REID C. FELLOWS P.E. 61673

FINAL SUBMITTAL
MARCH 9, 2005

METRO TRANSPORTATION GROUP, INC.
12651 McGREGOR BOULEVARD, SUITE 4-403
FORT MYERS, FLORIDA 33919-4489
(941) 278-3090

SIGNALIZATION OF GUNNERY ROAD
TABULATION OF QUANTITIES

SHEET NO. T-2

GENERAL NOTES

1. THE CONTRACTOR SHALL BE AWARE THAT EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE BOUNDS OF WORK SHOWN IN THE PLANS ARE NOT LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

2. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUIT, PULL BOXES, CONTROLLER FOUNDATIONS OR OTHER SIGNAL EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2004).

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MEETING WITH ALL UTILITIES HAVING OVERHEAD OR UNDERGROUND FACILITIES IN CLOSE PROXIMITY OR IN POSSIBLE CONFLICT WITH THE CONTRACTOR'S WORK.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR HAVING UNDERGROUND CABLE AND UTILITIES LOCATED AND IDENTIFIED BY PROPER AUTHORITIES AT ALL CONSTRUCTION SITES.

5. UNDERGROUND UTILITIES MAY OR MAY NOT EXIST WHERE AERIAL COMMUNICATIONS INSTALLATION IS PROPOSED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE POSSIBLE UTILITY CONFLICTS IF DESIGN IS CHANGED DURING CONSTRUCTION TO REQUIRE UNDERGROUND WORK.

6. SIGNAL INSTALLATION SHALL CONFORM WITH THE LATEST EDITION OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR TRAFFIC SIGNALS. AND THE MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES AND SIGNALS, AND THE LEE COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC SECTION PLAN SPECIFICATIONS DATED JANUARY 14, 2004.

7. SIGNAL TO BE MAINTAINED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION.

8. SIGNAL SHALL BE PLACED IN FULL OPERATION ON A MONDAY, TUESDAY OR WEDNESDAY, BUT SHALL NOT BE PLACED IN FULL OPERATION ON THE DAY PRECEDING A HOLIDAY.

9. SECT. 611-4 FIELD TESTS: SCHEDULING OF THE CONDITIONAL ACCEPTANCE INSPECTION SHALL BE COORDINATED WITH RICH LISENBEE, LEE COUNT DEPARTMENT OF TRANSPORTATION, TRAFFIC SECTION (PH: 239-694-7600) WITH A MINIMUM OF 48 HOURS NOTICE. RESULTS OF FIELD TESTS, I.E., SECTION 611-4 SHALL BE MADE AVAILABLE TO THE ENGINEER IN WRITTEN FORM. A QUALIFIED CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE:

   COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS, COORDINATING UNITS, SYSTEM CLOCKS AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM TIMING FUNCTIONS.

10. THE CONTRACTOR SHALL NOTIFY LEE COUNTY DOT- TRAFFIC SIGNAL SECTION IN WRITING PRIOR TO CONSTRUCTION WITH DATE AND TIMES OF START OF SIGNAL AND FLASH OPERATION, AND COMPLETION OF CONSTRUCTION PROJECT.

11. FOR SPAN WIRE MOUNTED SIGNAL HEADS THE CONTRACTOR WILL USE TERMINAL BLOCK IN SIGNAL HEAD DISCONNECTS AND REMOVE CINCH CONNECTOR FOR FIELD WIRING OF MULTI-SIGNAL CABLE. THE CONTRACTOR SHALL USE #14 THTN STRANDED COPPER WIRE FROM DISCONNECT TERMINAL BLOCK TO SIGNAL HEAD. THE FOLLOWING COLORS SHALL BE USED IN SIGNAL HEADS AND ELECTRICAL TAPE:

(A) RED WIRE	= RED SIGNAL DISPLAY
(B) YELLOW WIRE	= YELLOW SIGNAL DISPLAY
(C) GREEN WIRE	= GREEN SIGNAL DISPLAY
(D) WHITE WIRE	= NEUTRAL

CONDUIT:

-ITEM NO'S. 555-1-1, 630-1-12 & 630-1-13
PAYMENT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT RUNS IN TRENCH.

- CONDUIT SHALL BE 1 INCH MINIMUM DIAMETER FOR ELECTRICAL SERVICE CONNECTION.

- ALL OTHER CONDUIT (EXCEPT AS INDICATED ABOVE) SHALL BE 2 INCH MINIMUM DIAMETER.

- SUPPLY A ONE (1) INCH SCHEDULE 40 CONDUIT FROM CABINET BASE TO OUTSIDE OF NEAREST CONCRETE POLE. (FOR TELEPHONE LINE) STUB UP TWO (2) FEET.

- CONDUITS CROSSING MINOR STREETS SHALL BE A MINIMUM OF FOUR (4) EACH. TWO (2) INCH PVC CONDUITS.

- CONDUITS CROSSING MAJOR STREETS SHALL BE A MINIMUM OF FIVE (5) EACH TWO (2) INCH PVC CONDUITS.

SIGNAL HEADS AND CABLE:

- ITEM NO. 650-51-313, 650-51-513 & 632-7-1
THIS ITEM SHALL INCLUDE ALL LABOR AND WIRE NECESSARY FOR COMPLETE WIRING OF INTERSECTION.

- ALL SIGNAL HEADS SHALL BE CAST ALUMINUM.

- ALL RED, YELLOW AND GREEN TRAFFIC SIGNAL AND PEDESTRIAN SIGNAL DISPLAYS SHALL BE F.D.O.T. CERTIFIED LED TYPE DISPLAYS.

- ITEMS NO. 665-11 AND 665-12
THIS ITEM SHALL INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF PEDESTRIAN SIGNAL SIGN FTP-49. THIS SIGN SHALL BE MOUNTED ABOVE EACH PEDESTRIAN ACTUATED SIGNAL SIGN (FTP-48 OR FTP-47). SEE INDEX No. 17784 FOR DETAIL OF SIGN FTP-49 AND LOCATION OF PEDESTRIAN ACTUATED SIGNAL SIGN.

- TRAFFIC SIGNAL HEADS SHALL BE EQUIPPED WITH ONE PEICE METAL, LOUVERED BACKPLATES WHENEVER THE FACE OF SIGNAL LENS IS ORIENTED LESS THAN 40° NORTH OR 70° SOUTH OF TRUE EAST OR WEST. BACKPLATES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS CONSISTENT WITH SAFE CONSTRUCTION PRACTICES.

- ITEM NO. 653-181
PEDESTRIAN SIGNAL SHALL BE ONE PIECE L.E.D. WITH INTERNATIONAL SYMBOL, SIDE BY SIDE WITH EGG CRATE VISOR.

LOOPS AND DETECTORS:

- ITEM NO'S. 660-2-102 & 660-2-106

  THE HOLD DOWN MATERIAL (NONMETALLIC) SHALL BE A MINIMUM OF ONE INCH AND A MAXIMUM OF TWO INCHES IN LENGTH.

- ALL LOOPS SHALL HAVE A MINIMUM MEGGER READING OF 250 MEG. OHMS.

- TYPE F LOOPS SHALL BE 6'x40' AND SHALL OVERLAP AND EXTEND (IN THE DIRECTION OF TRAVEL) 2' BEYOND THE STOP BAR.

- EACH LOOP SHALL BE INSTALLED ON SEPARATE CHANNELS, EXCEPT ADVANCE LOOPS WHICH WILL HAVE A MAXIMUM OF 2 LOOPS PER CHANNEL.

- EACH LOOP SHALL HAVE A SEPARATE HOME RUN BACK TO THE CONTROLLER CABINET.

- NO MORE THAN ONE (1) LOOP LEAD-IN SHALL BE PERMITTED IN A SINGLE SAW CUT.

- LOOP LEAD-IN WIRES SHOULD BE TWISTED A MINIMUM OF FIVE (5) TURNS PER FOOT UP TO A MAXIMUM OF TWELVE (12) TURNS PER FOOT.

- LEAD-IN WIRE IN A SPLICE BOX SHALL BE LEFT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FOUR (4) FEET TO SPLICE TO HOME RUN CABLE.

- WHEN HOME RUN CABLE IS SPLICED TO LOOP LEAD-IN WIRE, THE END OF THE HOME RUN CABLE SHALL BE SEALED TO PREVENT WATER INFILTRATION.

- SILICONE FILLED (WATER PROOF) WIRE NUTS SHALL BE USED TO SPLICE LOOP LEAD-IN WIRE TO HOME RUN CABLE. MANUFACTURE KING OR APPROVED EQUIVALENT.

VIDEO DETECTION:

- VIDEO DETECTION CAMERAS SHALL HAVE ENOUGH CABLE FROM BACK OF CAMERA TO CONNECTION (SPLICE) BOX LOCATED APPROX. SIX (6) FEET ABOVE GRADE AT EACH SIGNAL POLE.

- ECONOLITE SOLO PRO IS THE PREFERRED VIDEO DETECTION. ANY OTHER TYPE MUST BE APPROVED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION, TRAFFIC ENGINEER.

CONTROLLER OPERATIONS:

- ITEM NO. 670-5-110
SHALL INCLUDE THE IMPLEMENTATION OF TIMINGS INTO ALL COMPONENTS. THE COORDINATION TIMINGS WILL BE SUPPLIED TO THE ENGINEER UPON HIS REQUEST. TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIALS FOR COMPLETE REWIRING AND ACTIVATION OF ALL EXISTING LOOPS, DETECTORS SIGNAL HEADS, ETC.

- CONTROLLERS SHALL BE AN 16 PHASE CONTROLLER ASSEMBLY WIRED IN AN FDOT TS2-TYPE 1 CABINET. ECONOLITE ASC/S-2100 CONTROLLER UNIT, EDI CONFLICT MONITOR, OR EQUIVALENT COMPATIBLE WITH EXISTING ECONOLITE CLOSED LOOP SYSTEM.

- CONTROLLER CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

- CONTROLLER CABINET SHALL NOT INTERFERE WITH PEDESTRIANS WHEN CABINET IS OPEN.

- CONTROLLER CABINET SHALL BE TYPE V, WITH QUASITE BASE (OR APPROVED EQUAL).

- A 4'x5'x4" THICK CONCRETE SERVICE SLAB SHALL BE CONSTRUCTED AT EACH CONTROLLER CABINET WHERE SIDEWALK IS NOT AVAILABLE.

- EACH MOVEMENT SHALL BE WIRED SEPARATELY AND COMBINED IN THE CONTROLLER CABINET TO OBTAIN THE SPECIFIC SIGNAL OPERATION PLAN. (S.O.P.).

PULL BOXES:

- ITEM NO. 635-1-11
PULL BOXES SHALL BE QUAZITE PG1730BA12 BOXES WITH PG1730HA00 HEAVEY DUTY COVER. NO EXCEPTIONS WILL BE APPROVED.

- PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. WHERE THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF TEN FEET FROM THE EDGE OF PAVEMENT.

- PULL BOX LIDS SHALL BE QUAZITE AND MARKED APPROPRIATELY, "TRAFFIC SIGNAL" OR "STREET LIGHTS".

- PULL BOXES SHALL BE INSTALLED ON A BED OF GRAVEL WITH A MINIMUM DEPTH OF TWELVE (12) INCHES.

- GRAVEL SHALL BE INSTALLED INSIDE THE PULL BOX TO A LEVEL OF TWO (2) INCHES BELOW TOP OF CONDUITS.

- PULL BOXES FOR INTERCONNECT SHALL BE QUASITE 24" x 36" x 24", WITH COVERS MARKED "TRAFFIC SIGNAL".

POLES:

- THE GROUND ELEVATIONS SHOWN AT THE POLE LOCATIONS ARE APPROXIMATE, THE CONTRACTOR SHALL VERIFY THESE ELEVATIONS BEFORE ORDERING POLES.

- LOCATION OF OVERHEAD WIRES IS APPROXIMATE, A TEN FOOT SEPARATION FROM THE SIGNAL POLE TO THE POWER LINES SHALL BE MAINTAINED.

- EACH SIGNAL POLE SHALL HAVE A MINIMUM OF THREE (3) EACH TWO (2) INCH CONDUITS INSIDE.

- SIGNAL POLES SHALL HAVE TWO (2) EACH TWO (2) INCH ACCESS NIPPLES IN FACE.

- THE TOPS OF SIGNAL POLE FOUNDATIONS SHALL BE TWELVE (12) INCHES BELOW GRADE.

STREET LIGHTING:

ITEM 715-5-11
THIS ITEM IS FOR A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE DESIGNED FOR MEDIUM/SEMI CUTOFF TYPE III DISTRIBUTION, AND REGULATED TYPE BALLAST WIRED FOR 240 VOLT OPERATION AND ONE PHOTO ELECTRIC CELL TO BE INSTALLED ON SERVICE DISCONNECT. LUMINAIRE ARM SHALL BE TWENTY FEET IN LENGTH AND SHALL BE DESIGNED TO SUPPORT THE LUMINAIRE AT A HEIGHT OF THIRTY FEET ABOVE THE ROADWAY ELEVATION. THIS ITEM SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND ACCEPTABLE INSTALLATION OF LUMINARE AND ARM.

CONTACTS:

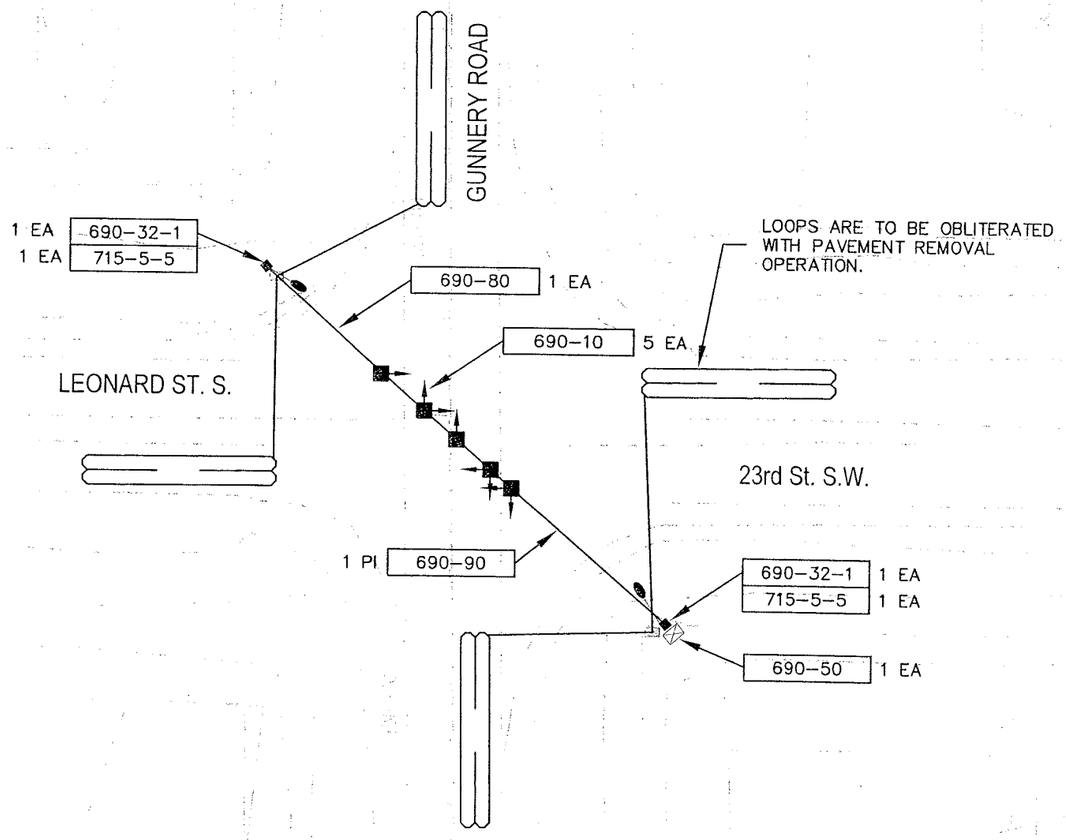
LEE COUNTY D.O.T.
TRAFFIC SECTION
RICH LISENBEE
5650 ENTERPRISE PKWY
FORT MYERS, FL 33905
(239) 694-7600

LEE COUNTY UTILITIES
ENGINEERING DEPARTMENT
VIOLET MOLNAR
1500 MONROE STREET
FORT MYERS, FL 33901
(239) 479-8181

MIKE PIGOTT
26880 OLD U.S. 41
BONITA SPRINGS, FL 34134
(239) 793-9600

FLORIDA POWER AND LIGHT
ROY GARRISON
15834 WINKLER ROAD
FT MYERS 33908
(239) 415-1345

JOB NO.	DATE	BY	REVISIONS	DESIGNED BY	A.J.R.	APPROVED BY:	FINAL SUBMITTAL MARCH 9, 2005	METRO TRANSPORTATION GROUP, INC. 12651 McGREGOR BOULEVARD, SUITE 4-403 FORT MYERS, FLORIDA 33919-4489 (941) 278-3090	SIGNALIZATION OF GUNNERY ROAD	SHEET NO.
F0204.08				DRAWN BY	A.J.R.	REID C. FELLOWS			GENERAL NOTES	T-3
				CHECKED BY	R.C.F.	P.E. 61673				



N

SCALE: 1"=30'

NOTE:

1. ABANDON EXISTING CONDUITS IN PLACE.

JOB NO. F0204.08	DATE	BY	REVISIONS	DESIGNED BY A.J.R.	APPROVED BY:	FINAL SUBMITTAL MARCH 9, 2005	METRO TRANSPORTATION GROUP, INC. 12651 McGREGOR BOULEVARD, SUITE 4-403 FORT MYERS, FLORIDA 33919-4489 (941) 278-3090	SIGNALIZATION OF GUNNERY ROAD	SHEET NO.
				DRAWN BY A.J.R.	REID C. FELLOWS			SIGNAL DEMOLITION PLAN GUNNERY ROAD @ LEONARD BOULEVARD	T-4
				CHECKED BY R.C.F.	P.E. 61673				

SIGN DETAILS

GUNNERY RD

S-1

700-48-18 4 AS

LEONARD BL

S-2

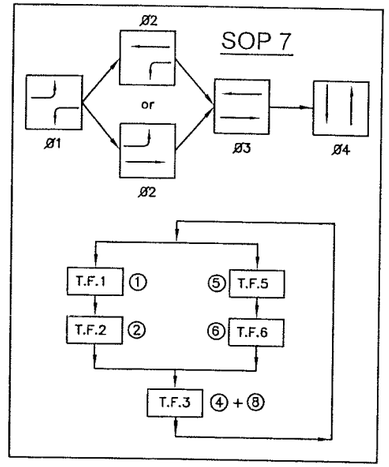
700-48-18 2 AS

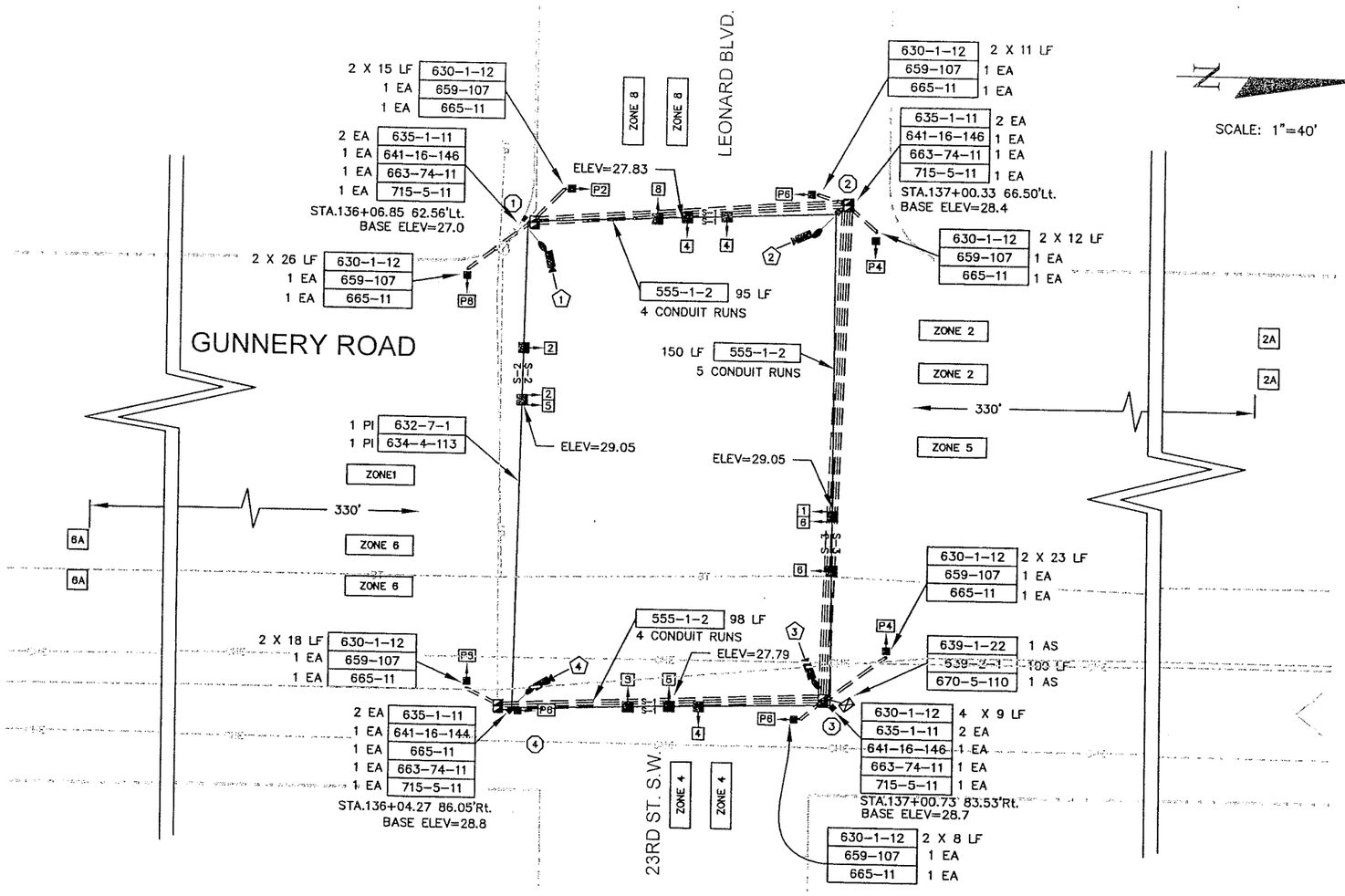
23rd ST. S.W.

S-3

700-48-18 2 AS

SOP 7





CONTROLLER TIMINGS

MOVEMENT NO.	1	2		4	5	6		8
MIN. GREEN (INT.)	4	15		10	4	15		10
EXT. (PASS)	3	5		2	3	5		2
MAX. GRN. I	20	50		25	20	50		25
MAX. GRN. II	30	65		35	30	65		35
YELLOW CLR.	4.5	4.5		3.0	4.5	4.5		3.0
ALL RED CLR.	–	2.0		2.0	–	2.0		2.0
PED. WALK		7		7		7		7
PED. CLR.		15		28		15		28
RECALL		MIN				MIN		

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE PROJECT ENGINEER. TIMINGS ARE FOR SOP 7

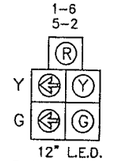
CAMERA / ZONE

CAMERA NUMBER	CONNECT TO ZONE	CONNECT TO TIMING FUNCTION
1	4	3
2	1	1
2	6	6
3	8	3
4	2	2
4	5	5

NOTES:

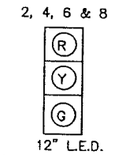
1. MAJOR STREET IS GUNNERY ROAD. PHASE 3 (MOVEMENTS 2 & 6) AND MINOR STREET IS LEONARD BOULEVARD / 23RD ST. S.W. PHASE 4 (MOVEMENTS 4 AND 8).

SIGNAL HEAD DETAILS



1-6
5-2

12" L.E.D.
5-SEC., 1 WAY
650-51-513
2 AS



2, 4, 6 & 8

12" L.E.D.
(3 SEC., 1 WAY)
650-51-313
8 AS

SIGNAL HEADS FOR MOVEMENTS 4 & 8 SHALL HAVE BACKPLATES.

659-101
6 AS

P2, P4, P6 & P8



L.E.D.
1 SECT., 2 WAY
653-181
8 AS

JOB NO.	DATE	BY	REVISIONS	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY:	FINAL SUBMITTAL MARCH 9, 2005
F0204.08				A.J.R.	A.J.R.	R.C.F.	REID C. FELLOWS P.E. 61673	

METRO TRANSPORTATION GROUP, INC.
12651 McGREGOR BOULEVARD, SUITE 4-403
FORT MYERS, FLORIDA 33919-4489
(941) 278-3090

SIGNALIZATION OF GUNNERY ROAD

SIGNAL CONSTRUCTION PLAN GUNNERY ROAD @ LEONARD BOULEVARD

SHEET NO. T-5

N

0 10' 20' 30'

SCALE:1"=30'

632-7-1 1 PI
650-54-311 1AS
650-54-511 1AS

REALIGN EXISTING TRAFFIC SIGNAL HEADS TO MATCH NEW SOUTH LEG.

231

LEE BOULEVARD
(S.R. 884)

GUNNERY ROAD

230

1 PI 690-100
REMOVE LOOPS

P6

8 LF 630-1-13
1 EA 653-381
1 EA 659-307
1 EA 665-31

1 EA 690-20
1 EA 690-31
1 EA 690-70

REMOVE, RELOCATE AND REUSE EXISTING PEDESTRIAN SIGNAL HEAD, DETECTOR STATION, SIGN AND PEDESTAL. EQUIPMENT SHALL BE RELOCATED TO POSITION SHOWN TO AVOID PROPOSED SIDEWALK AND ROADWAY CONFIGURATION.

L-7

L-4

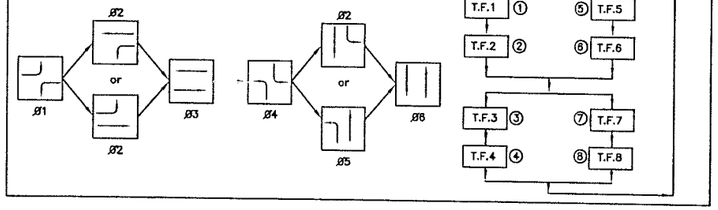
EXISTING PULLBOX

630-1-13 13 LF

660-2-106 2 AS
6' x 40' LOOPS

229

EXISTING SOP 10 (TO REMAIN)



NOTES:

1. MAJOR STREET IS LEE BOULEVARD. PHASE 3 (MOVEMENTS 2 & 6) AND MINOR STREET IS GUNNERY ROAD
2. EXISTING CONTROLLER TIMINGS TO REMAIN.

JOB NO	DATE	BY	REVISIONS
F0204.08			

DESIGNED BY	A.J.R.	APPROVED BY:
DRAWN BY	A.J.R.	REID C. FELLOWS
CHECKED BY	R.C.F.	P.E. 61673

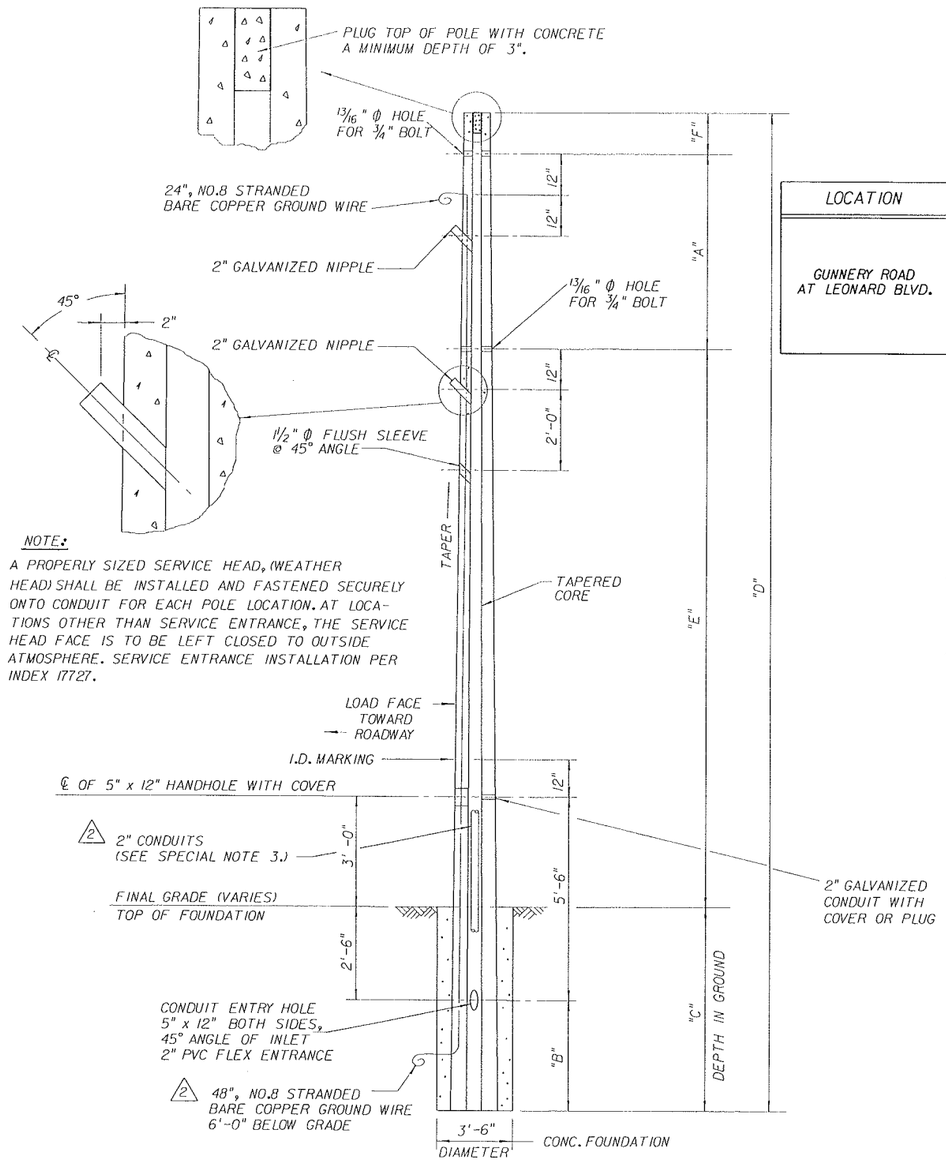
FINAL SUBMITTAL
MARCH 9, 2005

METRO TRANSPORTATION GROUP, INC.
12651 McGREGOR BOULEVARD, SUITE 4-403
FORT MYERS, FLORIDA 33919-4489
(941) 278-3090

SIGNALIZATION OF GUNNERY ROAD

SIGNAL MODIFICATION PLAN GUNNERY ROAD @ LEE BOULEVARD

SHEET NO. T-6



NOTE:

A PROPERLY SIZED SERVICE HEAD, (WEATHER HEAD) SHALL BE INSTALLED AND FASTENED SECURELY ONTO CONDUIT FOR EACH POLE LOCATION. AT LOCATIONS OTHER THAN SERVICE ENTRANCE, THE SERVICE HEAD FACE IS TO BE LEFT CLOSED TO OUTSIDE ATMOSPHERE. SERVICE ENTRANCE INSTALLATION PER INDEX 17727.

CONCRETE STRAIN POLE DETAIL (TYPE N-VII)

N.T.S.

POLE SCHEDULE

LOCATION	STATION	OFFSET	POLE NO.	TYPE	SPAN	A (ft.)	B (ft.)	C (ft.)	D (ft.)	E (ft.)	F (ft.)	CATENARY WIRES (IN.)	MESSENGER WIRES (IN.)	ITEM NO.
GUNNERY ROAD AT LEONARD BLVD.	STA. 136+06.85	62.56 LT	1	N-VII	POLE 1 TO POLE 2	7.751	10.866	13.366	46.0	23.883	1.00	3/8	1/4	641-16-146
	STA. 137+00.33	66.50 LT	2	N-VII	POLE 2 TO POLE 3	7.751	12.266	14.766	46.0	22.483	1.00	3/8	1/4	641-16-146
	STA. 137+00.73	83.53 RT	3	N-VII	POLE 3 TO POLE 4	7.751	12.566	15.066	46.0	22.183	1.00	3/8	1/4	641-16-146
	STA. 136+04.27	86.05 RT	4	N-VII	POLE 4 TO POLE 1	7.751	10.666	13.166	44.0	22.083	1.00	3/8	1/4	641-16-144
						△1	△1	△1	△1				△3	△1

SPECIAL NOTES:

△3 1. ALL CATENARY WIRES AND MESSENGER WIRES SHALL BE HIGH STRENGTH CLASS A GRADE.

2. PLACE I.D. MARKING ON LOAD FACE OF POLE.

△2 3. SIGNAL POLE AT CABINET SHALL HAVE THREE (3) 2" CONDUITS INSIDE AND OTHER POLES SHALL HAVE TWO (2) 2" CONDUITS INSIDE. INSIDE VOID OF POLES SHALL ACCOMMODATE THIS REQUIREMENT.

NOTES:

1. SEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTIONS 634 AND 641.
2. SEE ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 17725 & 17727. FOR GROUNDING DETAIL AND SPAN WIRE INSTALLATION DETAILS.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1-7-05	RCR	△1 POLE HEIGHTS REVISED	3-31-05	RCR	△3 REVISED CABLE GRADE & MESSENGER DIAMETERS.
1-10-05	RCR	△2 REVISE POLE DETAILS			

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE FORT MYERS TAMPA
12701 World Plaza Lane Bldg. 80 Fort Myers, FL 33907 EB-4464

LEE COUNTY

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CONCRETE STRAIN POLE SCHEDULE

SHEET NO. T-7

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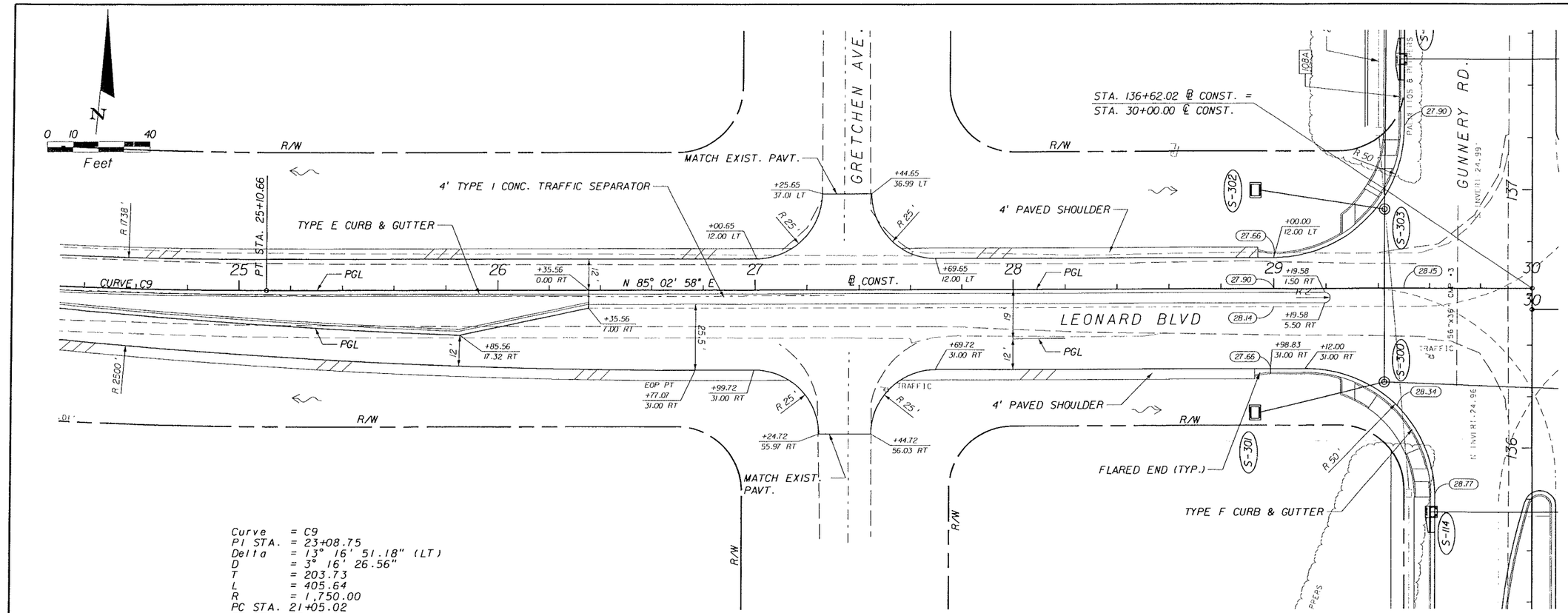
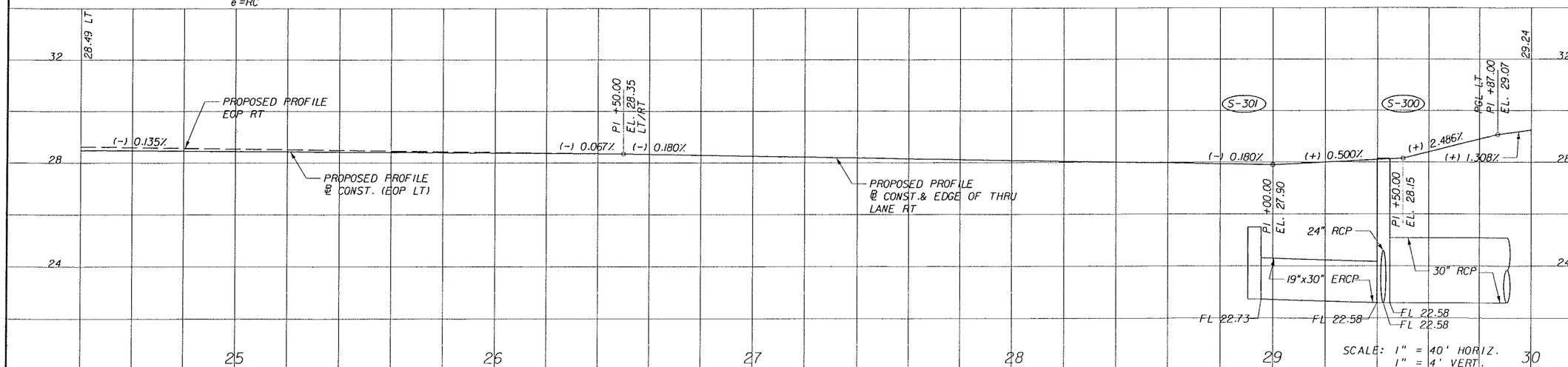


Curve = C9
PI STA. = 23+08.75
Delta = 13° 16' 51.18" (LT)
D = 3° 16' 26.56"
T = 203.73
L = 405.64
R = 1,750.00
PC STA. 21+05.02
PT STA. 25+10.66
e =RC



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC. INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
LEONARD BLVD

SHEET NO. 55

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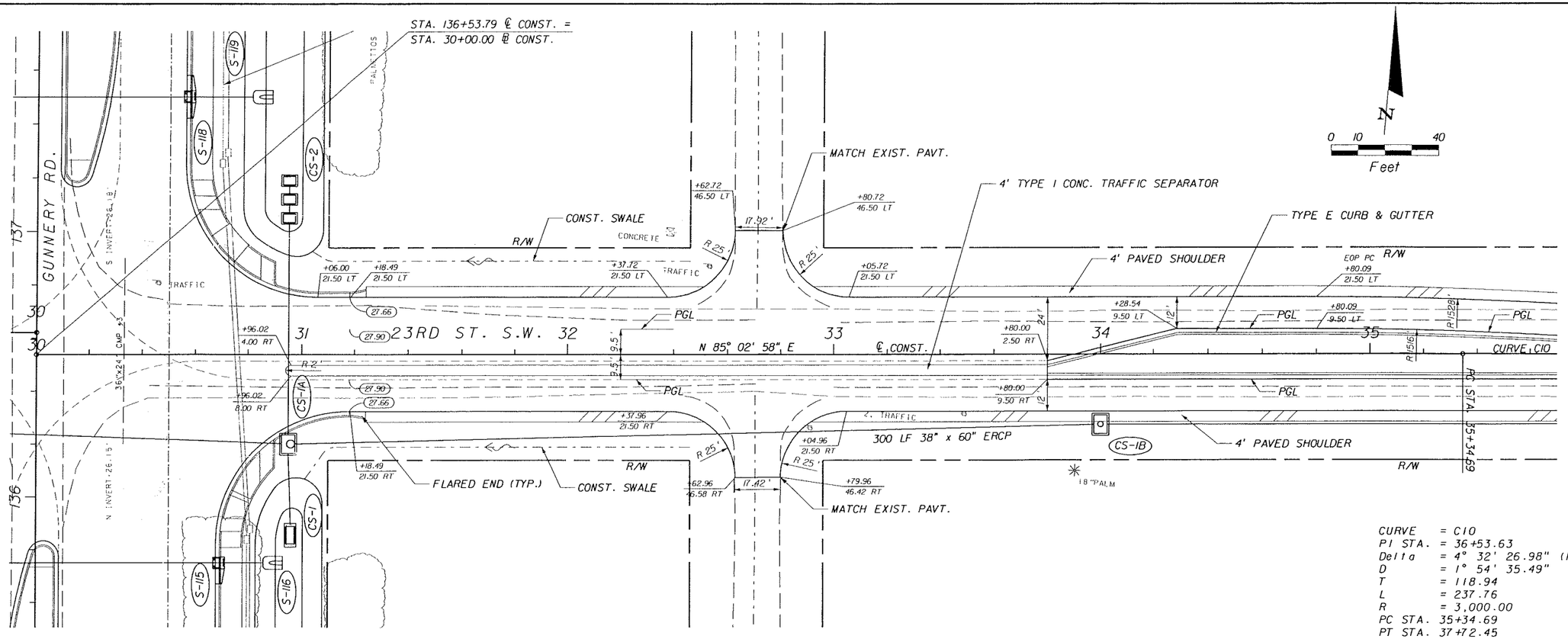
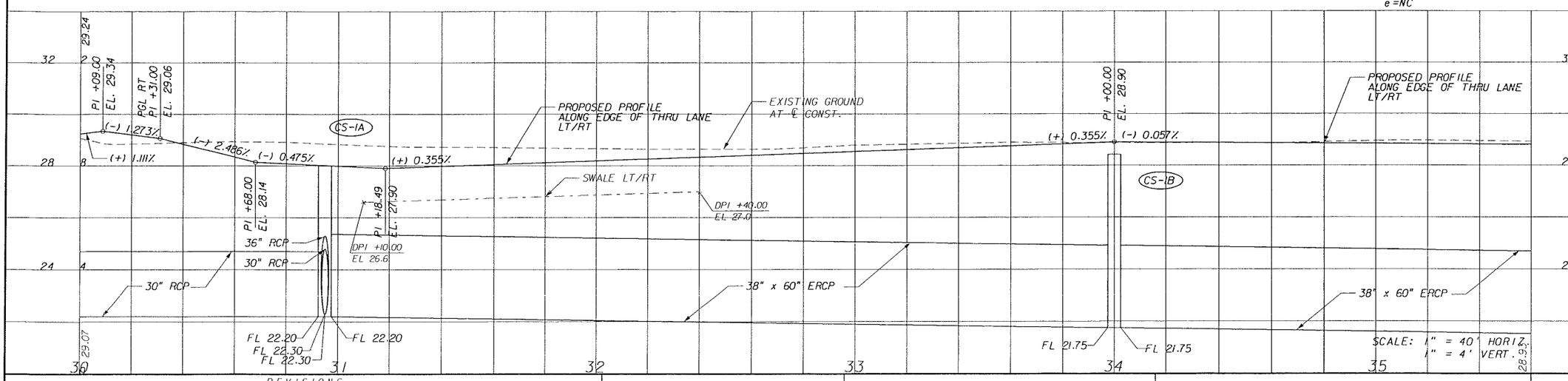


CURVE = C1O
PI STA. = 36+53.63
Delta = 4° 32' 26.98" (RT)
D = 1° 54' 35.49"
T = 118.94
L = 237.76
R = 3,000.00
PC STA. 35+34.69
PT STA. 37+72.45
e=NC



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARRISON & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
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Fort Myers, FL 33907
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George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

PLAN AND PROFILE
23RD STREET S.W.

SHEET NO. 56

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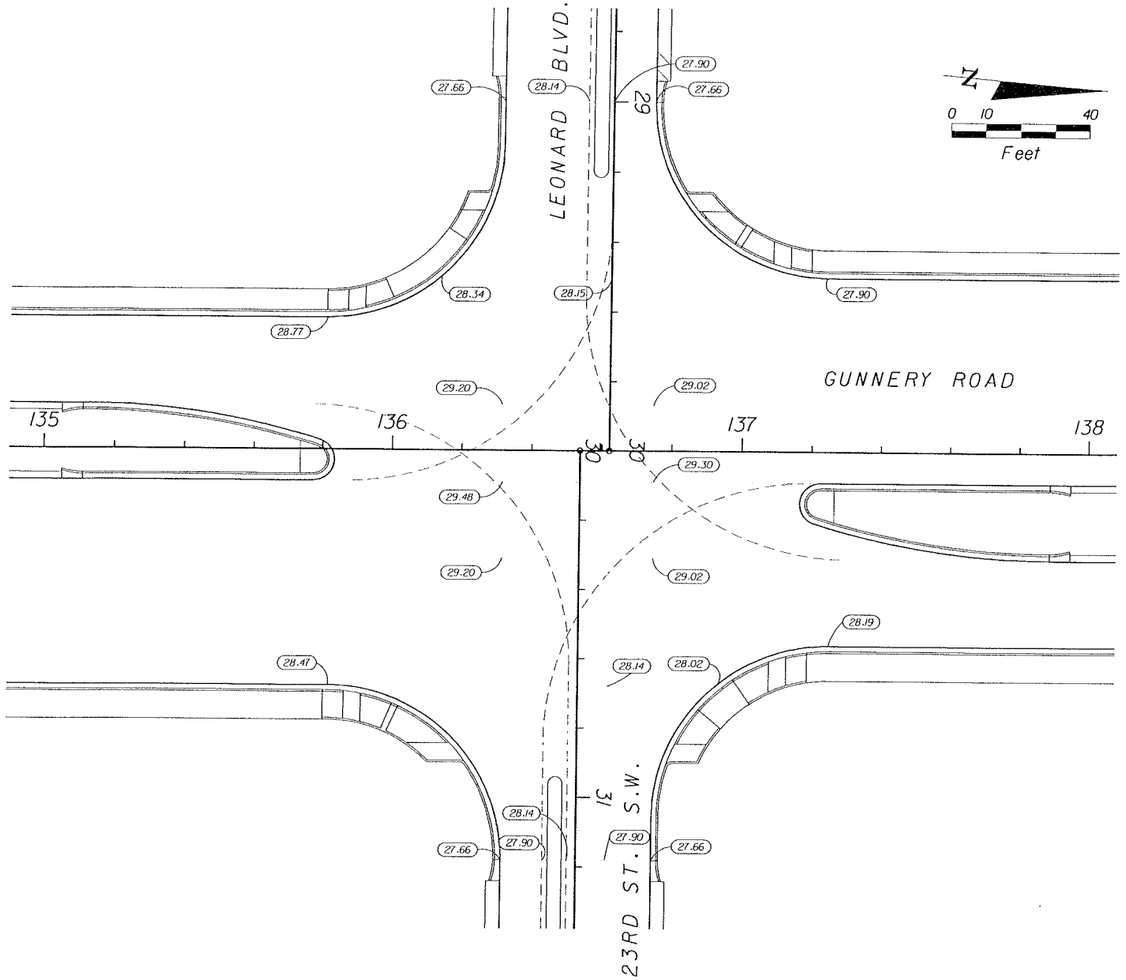

GRADING DETAIL
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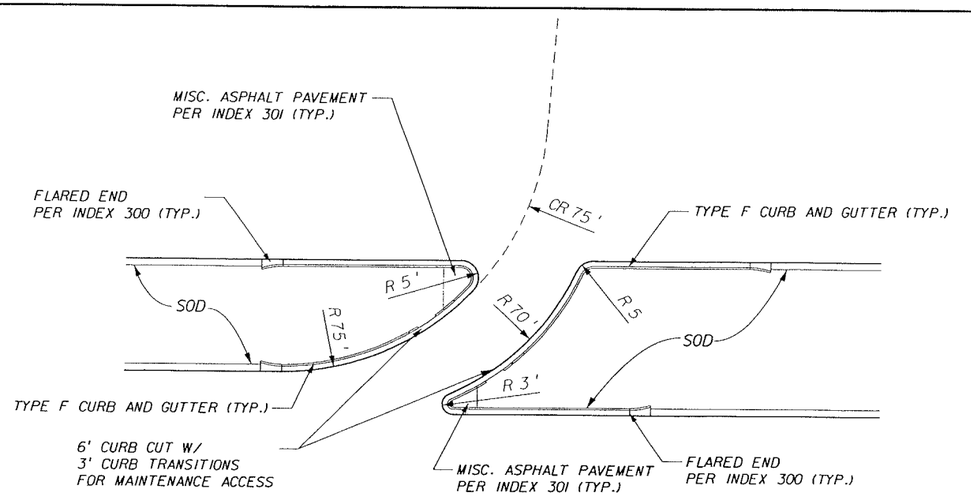
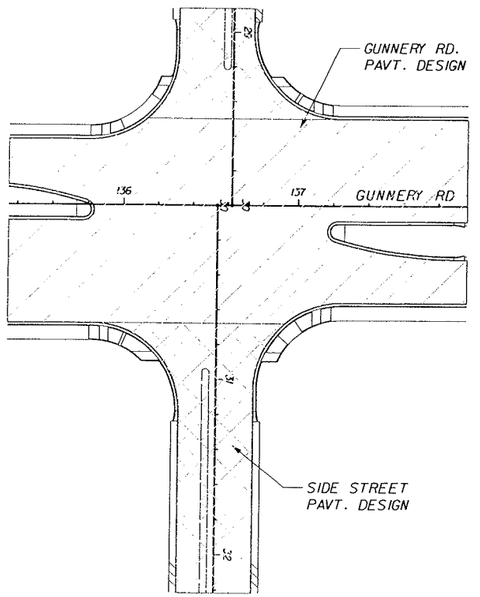
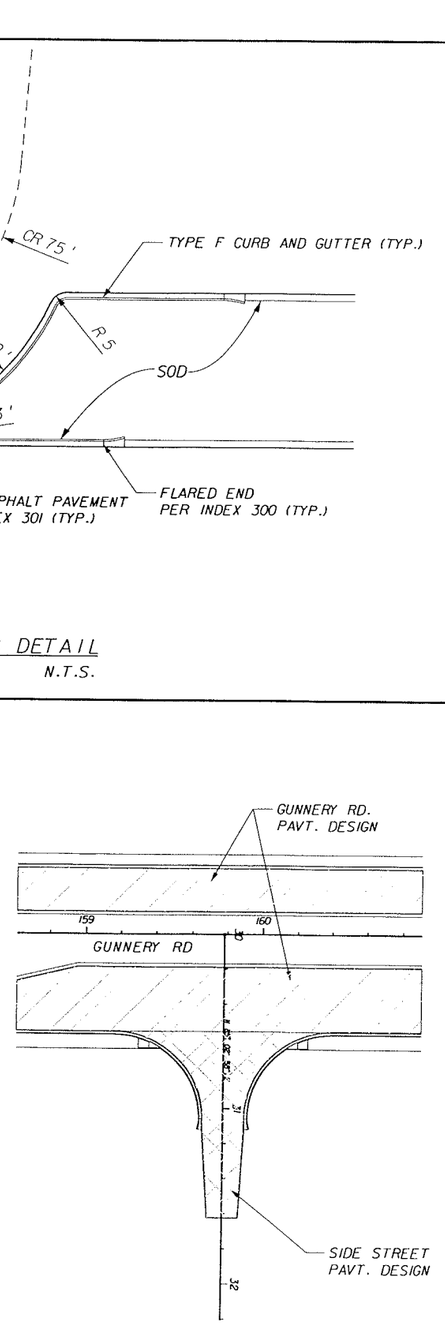


TYPICAL MEDIAN OPENING DETAIL
N.T.S.



TYPICAL PAVEMENT DESIGN LIMITS
N.T.S.



TYPICAL PAVEMENT DESIGN LIMITS
N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
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12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466
George R. Brinson, P.E. #47607

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

SPECIAL DETAILS

SHEET NO. 77

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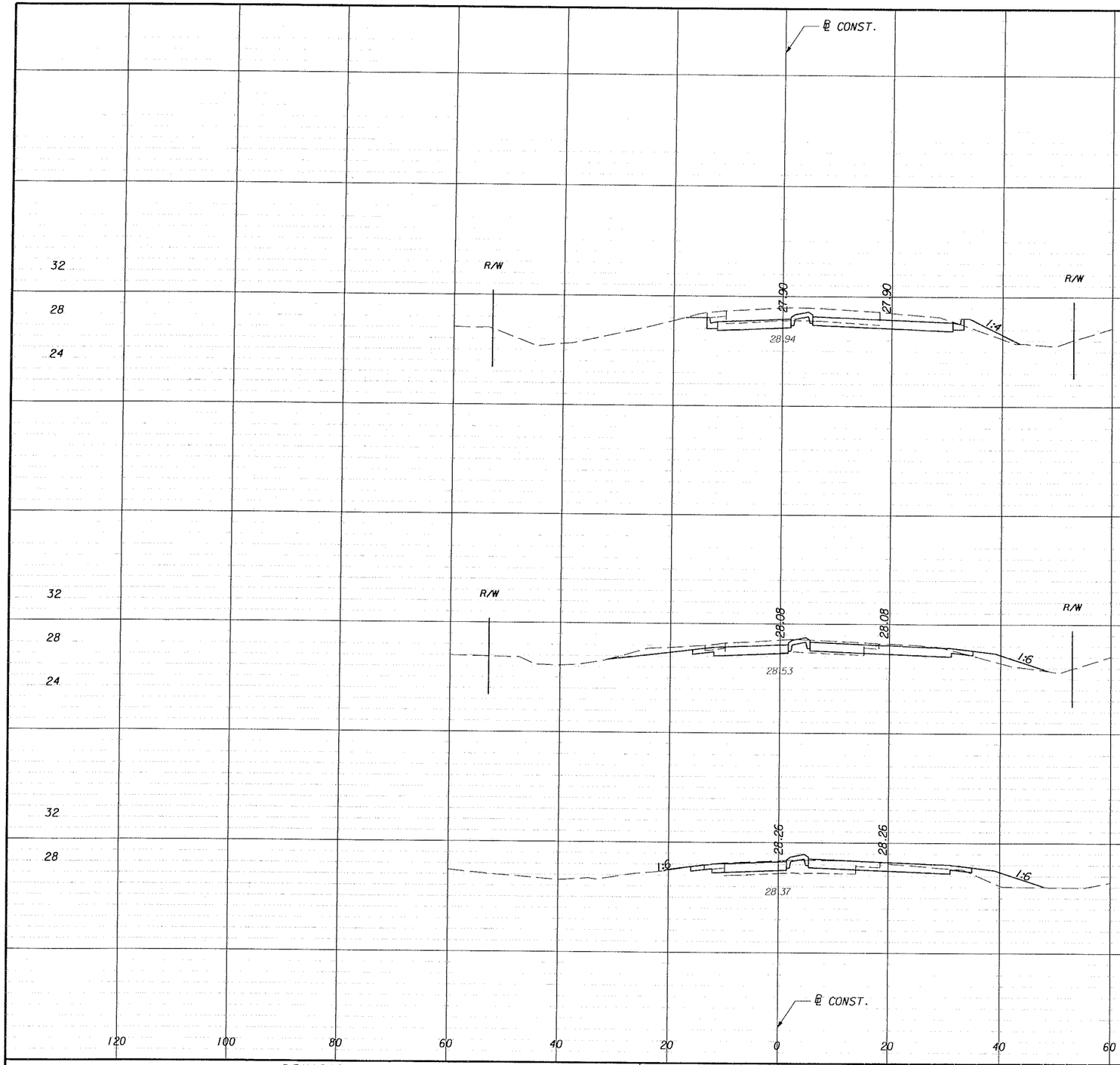

Regular Exc.		Embankment	
A	V	A	V
0.0		0.0	
	64		5
69.4		4.9	
	223		22
51.1		6.8	
	154		32
31.9		10.4	
	90		78
SHEET TOTAL	531		137
LEONARD ST. TOTAL	945		325

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITTMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA
12701 World Plaza Lane
Bldg. 80
Fort Myers, FL 33907
EB-4464
(239) 936-6466

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
LEONARD STREET

SHEET NO. 180

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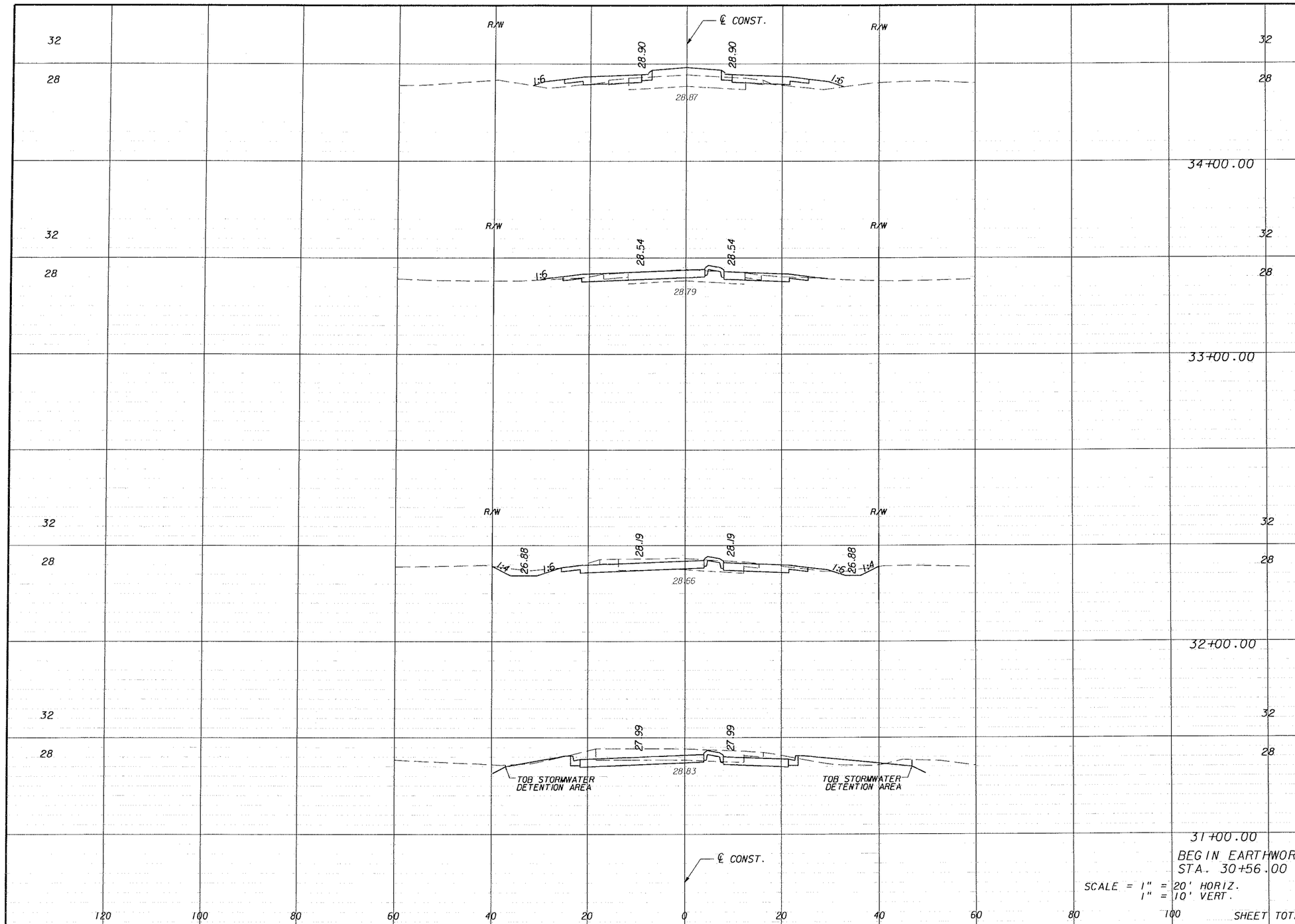

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
8.3		22.5	
	70		44
29.7		1.1	
	157		4
54.9		0.8	
	229		17
69.0		8.6	
	56		7
0.0		0.0	
SHEET TOTAL	512		72

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN • HARTENSTEIN & ASSOC., INC.
ENGINEERS
JACKSONVILLE • FORT MYERS • TAMPA

12701 World Plaza Lane
Bldg. 80
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LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO.	COUNTY	PH&A PROJECT NO.
4055	LEE	99012.201

CROSS SECTIONS
23RD STREET S.W.

SHEET NO. 181

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