

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

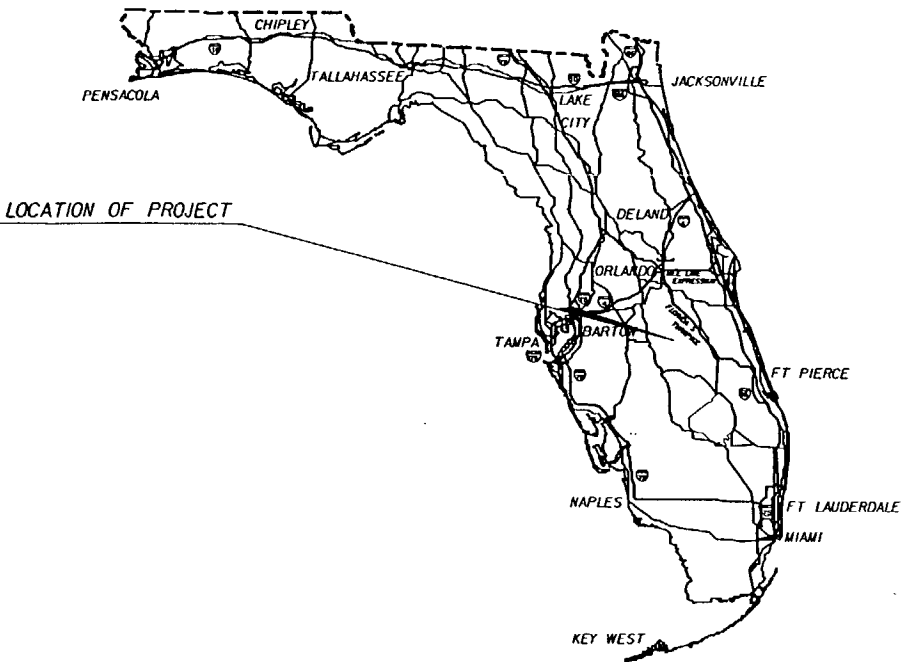
CONTRACT PLANS

FINANCIAL PROJECT ID. 239718-1-52-01
STATE PROJECT NO. 92070-3501
OSCEOLA COUNTY
FINANCIAL PROJECT ID. 197668-1-52-01
STATE PROJECT NO. 16130-3511
(FEDERAL FUNDS)
POLK COUNTY
STATE ROAD NO. 60

INDEX OF SIGNING AND PAVEMENT MARKING PLANS


SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES (POLK COUNTY)
S-3	TABULATION OF QUANTITIES (OSCEOLA COUNTY)
S-4	GENERAL NOTES
S-5 - S-13	PLAN SHEETS
S-14	GUIDE SIGN WORKSHEET
S-15 - S-17	SIGN DETAILS

SIGNING AND PAVEMENT MARKING PLANS



SUBMIT SHOP DRAWINGS TO:
BENTON SI J. BONNEY, P.E.

PLANS PREPARED BY:

 WILBUR SMITH ASSOCIATES
3535 LAWTON RD. SUITE 100
ORLANDO, FLORIDA 32803-3729
(407) 896-5851
FEID NO. VF-570-405-950
CERTIFICATE OF AUTHORIZATION NO. 406

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

GOVERNING STANDARDS AND SPECIFICATIONS:-
FLORIDA DEPARTMENT OF TRANSPORTATION.
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 2000, AND
STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2000,
AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS

NOTE: THIS IS A METRIC UNIT PROJECT

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNING AND PAVEMENT
MARKING PLANS
ENGINEER OF RECORD:  BENTON SI J. BONNEY, P.E.

P.E. NO. 43874

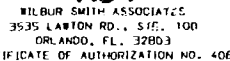
FISCAL YEAR	SHEET NO.
01	S-1

FDOT PROJECT MANAGER : BONNIE BOYLAN, P.E.

POLK COUNTY

* QUANTITIES BASED ON FIELD MEASUREMENTS
AS RECORDED ON SITE SOURCE DOCUMENTS.

PREPARED BY:




ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R.60	POLK	197668-1-52-01

SHEET
NO.

S-2

OSCEOLA COUNTY

* QUANTITIES BASED ON FIELD MEASUREMENTS
AS RECORDED IN SITE SOURCE DOCUMENTS.

REVISIONS						PREPARED BY:  WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES SIGNING AND MARKING	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-3
							S.R. 60	POLK/OSCEOLA	197668-1-52-01 239716-1-52-01		

GENERAL NOTES

- 1 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 DEPARTMENT'S STANDARD SPECIFICATIONS.
- 2 THE CONTRACTOR WILL DISPOSE OF ALL SIGNS REMOVED. ALL SIGNS DESIGNATED FOR REMOVAL WILL BE MEASURED AND PAID FOR BY THE POST ASSEMBLY REGARDLESS OF THE NUMBER OF EXISTING PANELS ATTACHED.
- 3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- 4 THE LANE WIDTHS SHOWN ON THE PLANS ARE FROM THE EDGE OF PAVEMENT TO THE EDGE OF PAVEMENT. THE LANE STRIPING IS ACTUALLY 50MM INSIDE OF THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.
- 5 SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY THE ENGINEER OF RECORD.
- 6 THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION FOR UTILITY LOCATION AND PROTECTION.

UTILITY OWNERS:

- a. PEACE RIVER ELECTRIC COOPERATIVE, INC.
(800)-432-4770
CABLE LOCATOR OF FLORIDA
- b. GTE
(941)-692-1152
WAYNE BLECKER
- c. UNITED TELEPHONE OF FLORIDA
(800)-432-4770
CABLE LOCATOR OF FLORIDA

- 7 WHEN GROUND MOUNTED SIGN SUPPORTS (SINGLE) AND STANDARD SIGN PANELS ARE FABRICATED IN ACCORDANCE WITH THESE PLANS, NO SHOP DRAWINGS ARE REQUIRED.
- 8 NECESSARY CARE SHALL BE TAKEN SUCH THAT RELOCATED SIGNS REMAIN FREE OF DAMAGE. DAMAGED SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 9 EXISTING PAVEMENT MARKINGS TO BE NOTED AND REPLACED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE PLANS OR LATEST DESIGN STANDARDS. THE COST OF WORK IS TO BE PAID FOR UNDER THE APPROPRIATE PAVEMENT MARKING PAY ITEM.
- 10 ALL PAV'T MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED IN THE PLANS. THE QUANTITIES OF PAVEMENT MARKINGS INDICATED IN THE SIGNING AND MARKING PLANS INCLUDE THE QUANTITIES FOR PAVEMENT MARKINGS USED FOR MAINTENANCE OF TRAFFIC IN THE ROADWAY PLANS.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:



WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	POLK OSCEOLA	239718-1-52-01 197668-1-52-01

GENERAL NOTES

SHEET
NO.

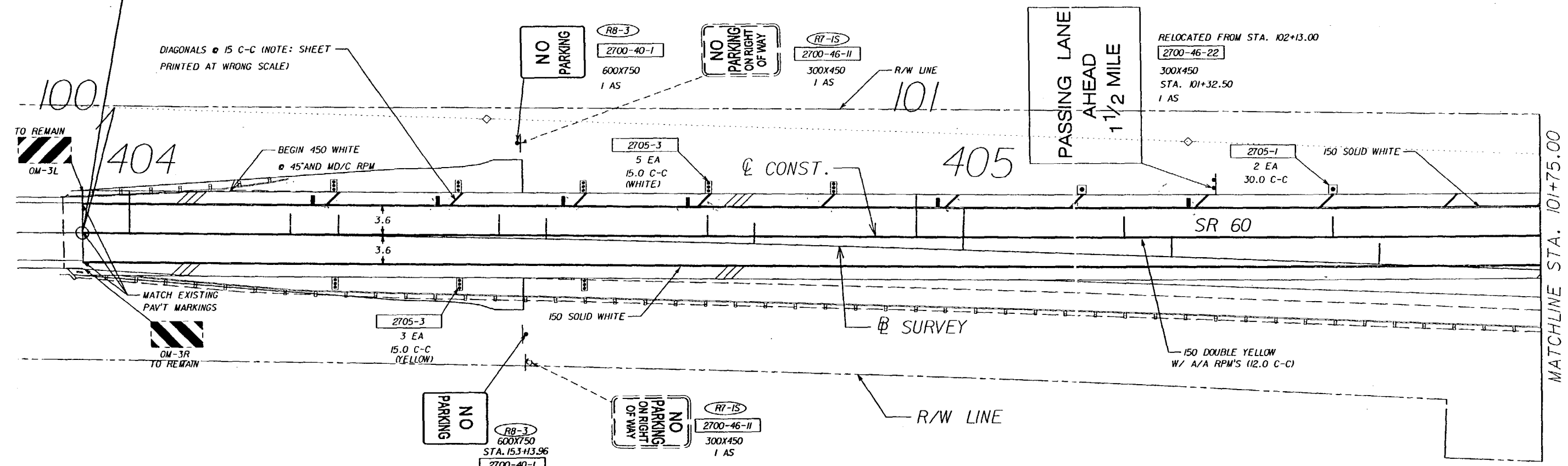
S-4



BEGIN SIGNING AND PAVEMENT MARKING
STA. 100+00.000 @ CONST.=
STA. 403+94.355 @ SURVEY

NOTE: FOR DIAGONALS AND RPM ON SHOULDER,
450 WHITE @ 45' @ 15.0 C-C WITH 4 MD/C
RPM EVENLY SPACED. 100 M OFF EACH 450
STRIPE. SEE INDEX 17359

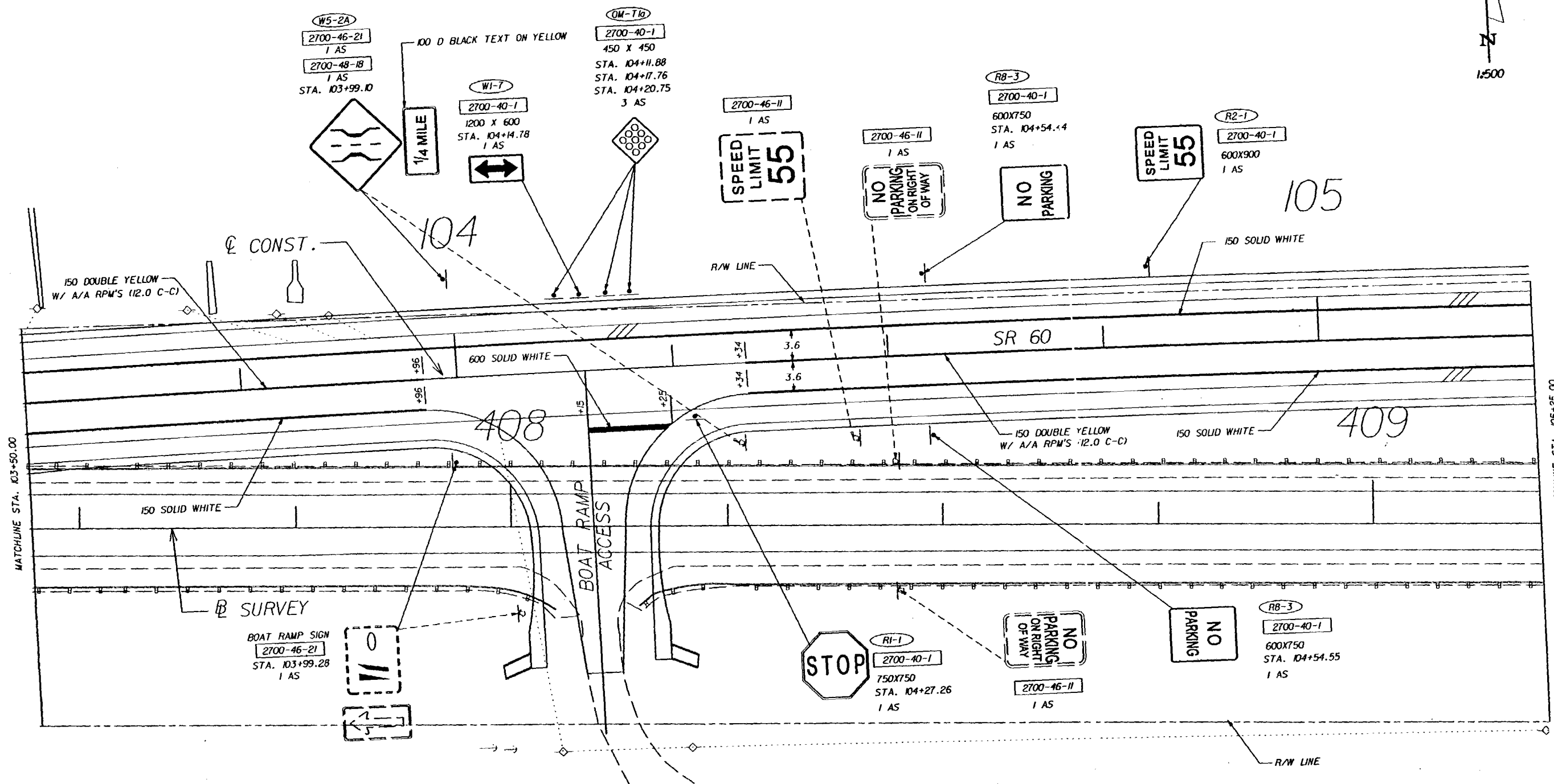
CLEARANCE FROM EDGE OF TRAVELWAY	COLUMN SIZE		AVG. POST LENGTH
	ALUM	STEEL	
2.2m	1 152 X 6.00	W150 X 18 (2)	4.144m AVG.



NOTE: POST-MOUNTED DELINEATORS ON
BOTH SIDES OF ROAD SHALL FACE TRAFFIC
APPROACHING BRIDGE.

PAVED SHOULDER

REVISIONS						PREPARED BY: WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING	SHEET NO. S-5
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 60	POLK	197663-1-52-01		



REVISIONS				PREPARED BY: WSA WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING	SHEET NO. S-7
DATE	BY	DESCRIPTION	DATE		BY	DESCRIPTION			
							ROAD NO. SR 60	COUNTY POLK	FINANCIAL PROJECT ID 197668-1-52-01

CLEARANCE FROM EDGE OF TRAVELWAY SEE SHEET S-15	COLUMN SIZE		AVG. POST LENGTH
	ALUM	STEEL	
	1 152 X 6.00 (2)	W150 X 18 (2)	3.757m AVG.

SIGN 1
1.524x1.829
STA. 106+35.28
2700-41-10
1 AS

M3-4
600x300
FTP-28
600x600
STA. 106+53.86
2700-40-1
1 AS

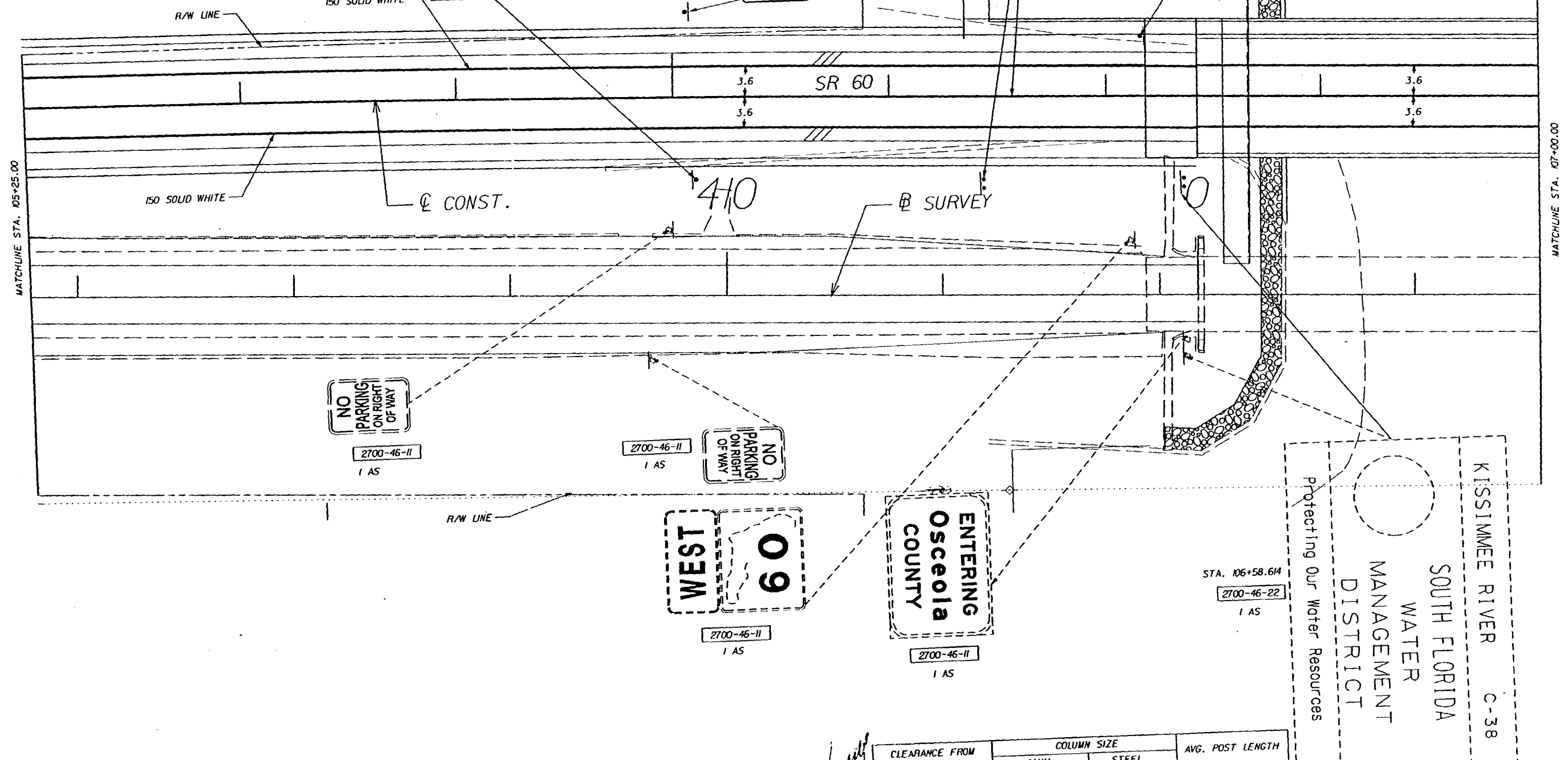
RB-3
2700-40-1
600x750
STA. 106+02.52
1 AS

RB-3 R/W LINE
2700-40-1
600x750
STA. 106+01.72
1 AS

WEST
60

107

106



PAVED SHOULDER

CLEARANCE FROM EDGE OF TRAVELWAY SEE SHEET S-15	COLUMN SIZE		AVG. POST LENGTH
	ALUM	STEEL	
	1 152 X 6.00 (2)	W150 X 18 (2)	3.758m AVG.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	POLK	197668-1-52-01

SIGNING AND PAVEMENT MARKING

SHEET
NO.
S-8

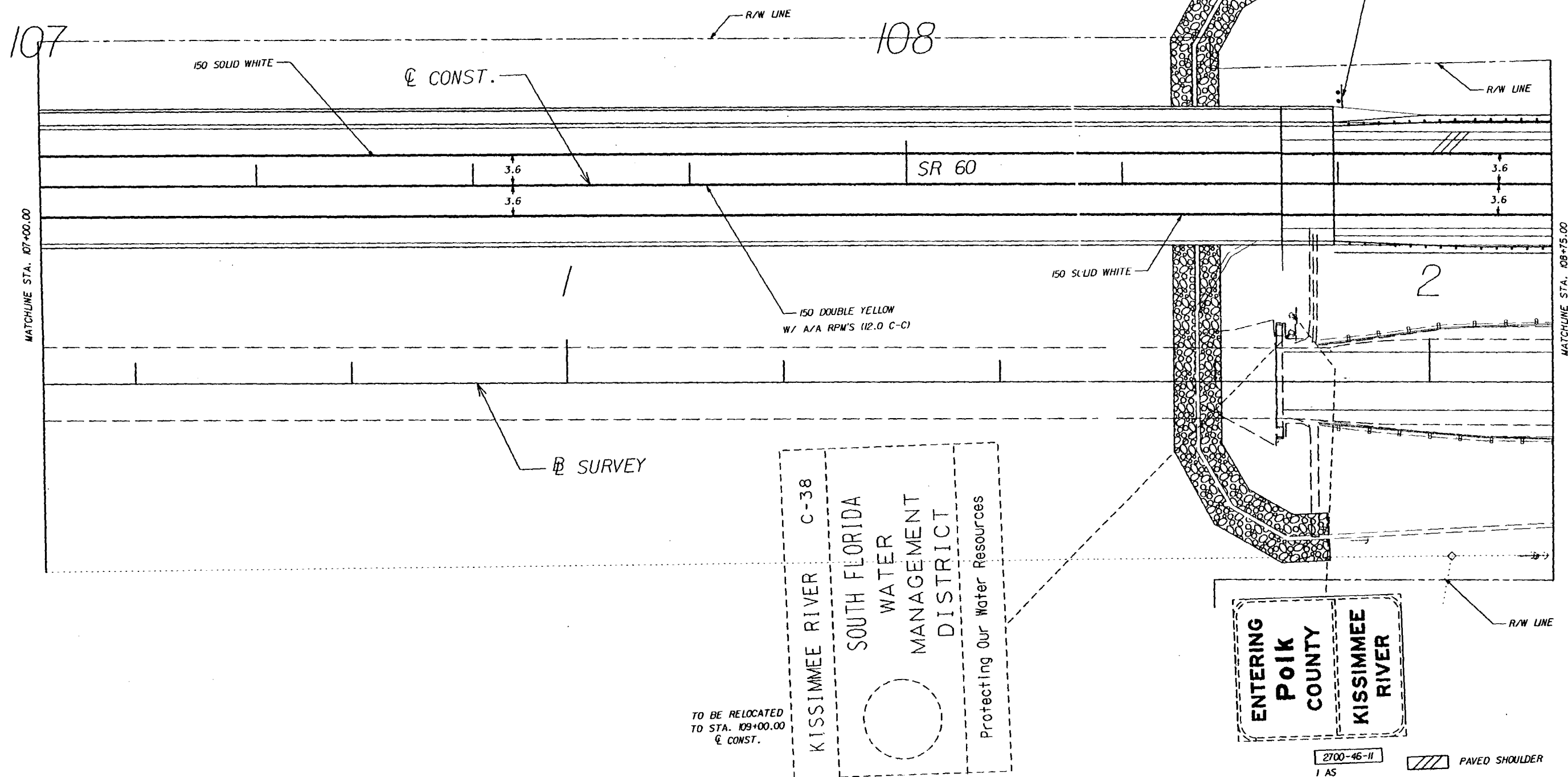
REVISIONS			
DATE	BY	DESCRIPTION	

PREPARED BY:
WSA
WILBUR SMITH ASSOCIATES
3535 LANTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

CLEARANCE FROM EDGE OF TRAVELWAY	COLUMN SIZE		AVG. POST LENGTH
	ALUM	STEEL	
SEE SHEET S-16	1 1/2 X 6.00 (2)	W150 X 18 (2)	3.758m AVG.

SIGN 2
1.524x1.829
STA. 108+50.33
2700-41-10
1 AS

ENTERING
POIK
COUNTY
KISSIMMEE
RIVER



TO BE RELOCATED
TO STA. 109+00.00
Q CONST.

KISSIMMEE RIVER C-38
SOUTH FLORIDA
WATER
MANAGEMENT
DISTRICT
Protecting Our Water Resources

ENTERING
POIK
COUNTY
KISSIMMEE
RIVER

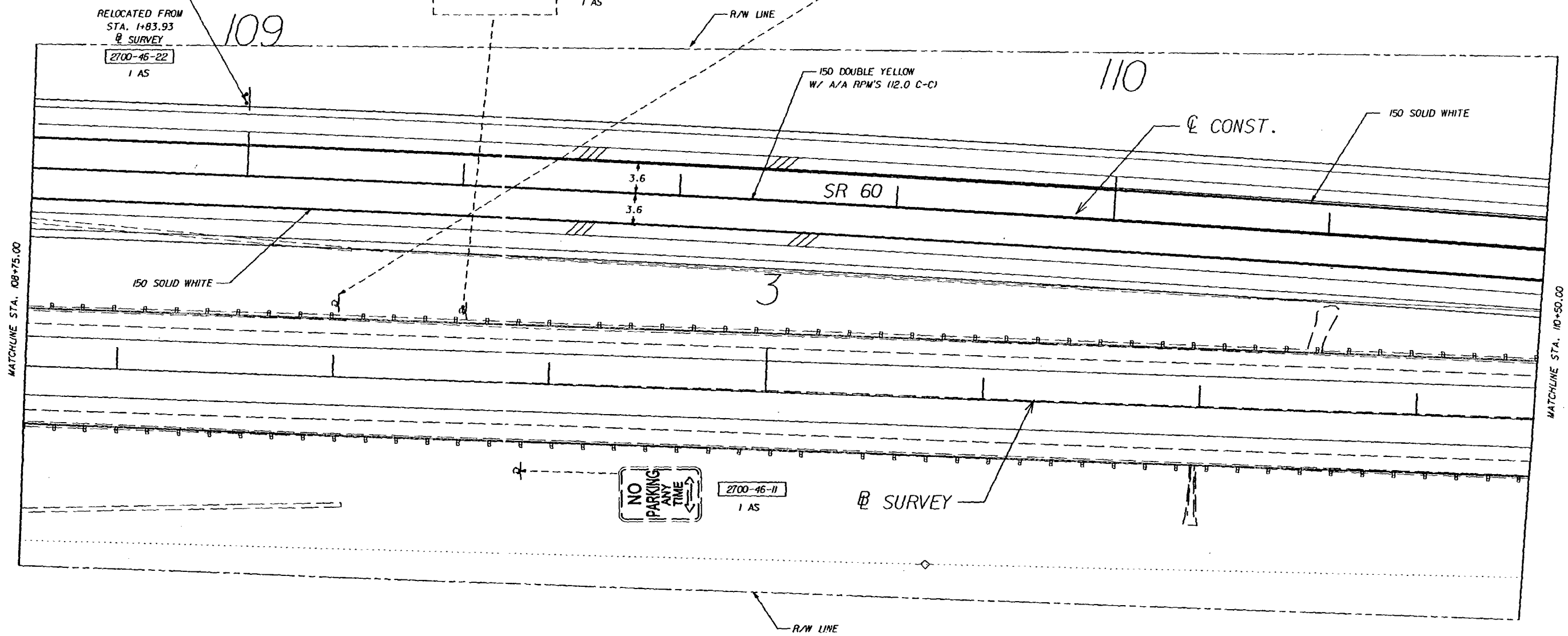
2700-46-11
1 AS
PAVED SHOULDER

REVISIONS DATE BY DESCRIPTION				PREPARED BY: WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 60 OSCEOLA 239713-1-52-01		SIGNING AND PAVEMENT MARKING		SHEET NO. S-9
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KISSIMMEE RIVER C-38
SOUTH FLORIDA
WATER
MANAGEMENT
DISTRICT
Protecting Our Water Resources

CLEARANCE FROM EDGE OF TRAVELWAY	COLUMN SIZE		AVG. POST LENGTH
	ALUM	STEEL	
SEE SHEET S-16	1 152 X 6.00 (2)	W150 X 18 (2)	3.757m AVG.

HAMILTON DISSTON
BRIDGE



RELOCATED FROM
STA. 1+83.93
Q SURVEY
2700-46-22
1 AS

2700-46-11
1 AS

2700-46-11
1 AS

NO
PARKING
ANY
TIME

2700-46-11
1 AS

Q SURVEY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

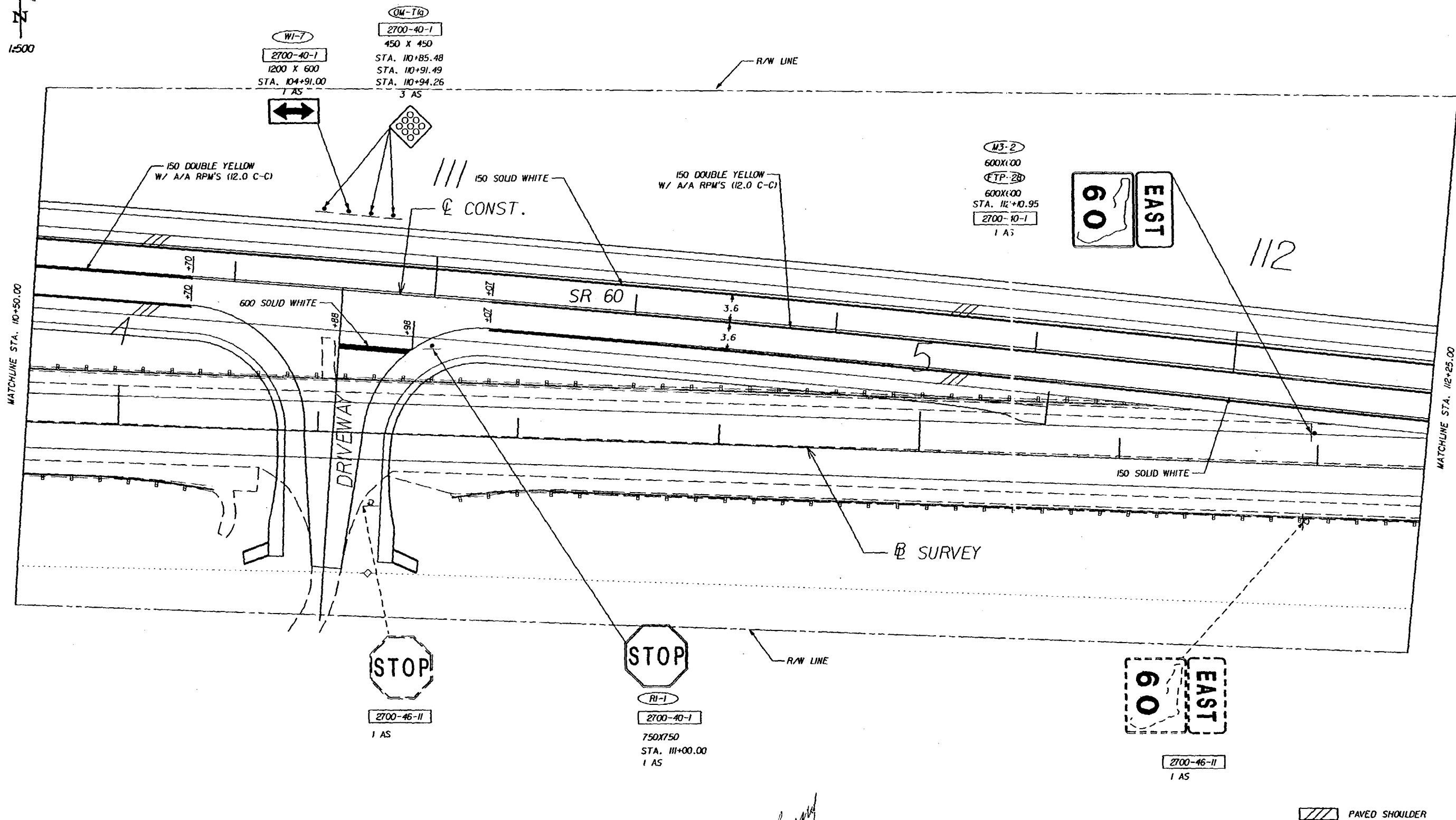
PREPARED BY:

WSA
WILBUR SMITH ASSOCIATES
3535 LANTON RD., STE. 100
ORLANDO, FL. 32803

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA	239718-1-52-01

**SIGNING AND PAVEMENT
MARKING**

SHEET
NO.
S-10



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:

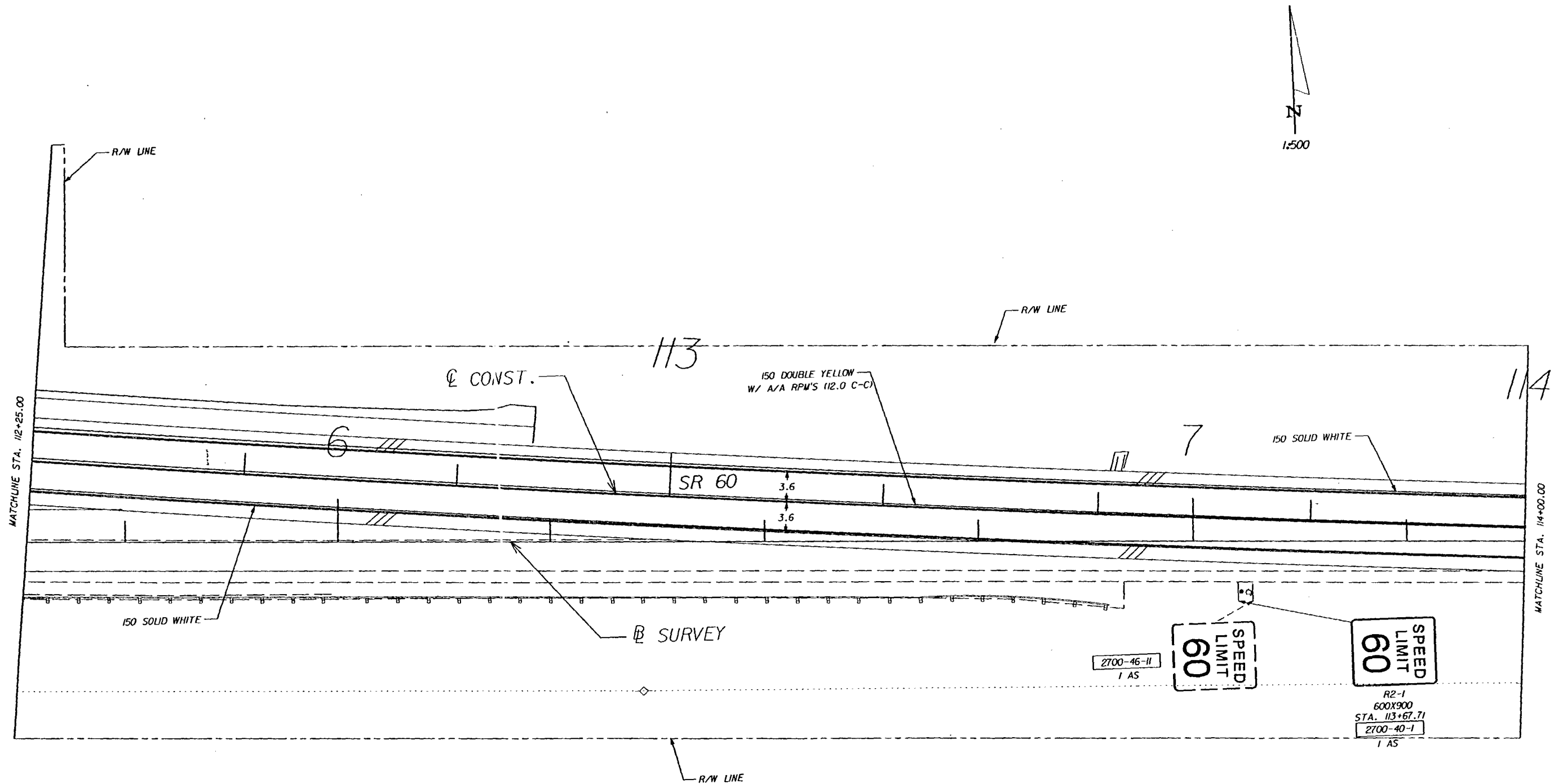
WILBUR SMITH ASSOCIATES
3535 LANTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA	239719-1-52-01

**SIGNING AND PAVEMENT
MARKING**

SHEET
NO.

S-II



REVISIONS				
DATE	BY	DESCRIPTION	DATE	BY

PREPARED BY: 
 WILBUR SMITH ASSOCIATES
 3535 LANTON RD., STE. 100
 ORLANDO, FL. 32803

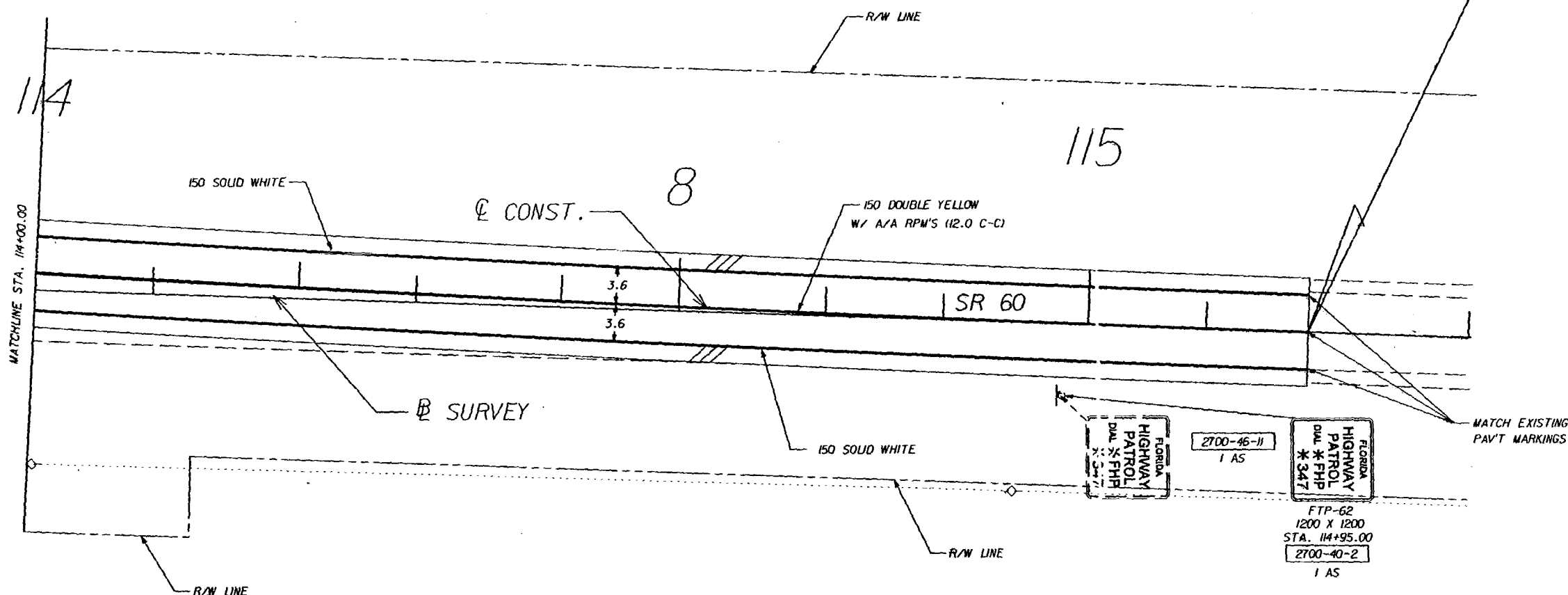
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA	239718-1-52-01

SIGNING AND PAVEMENT MARKING

SHEET
NO.
S-12



END SIGNING AND PAVEMENT MARKING
STA. 115+26.803 @ CONST.=
STA. 8+65.615 @ SURVEY



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:



WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

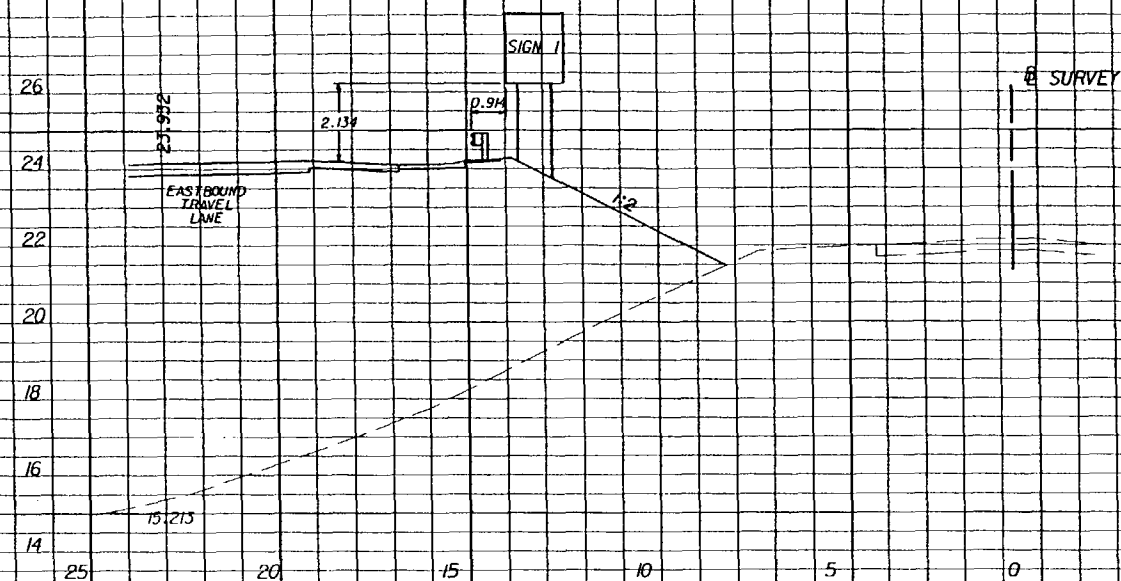
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA	239718-1-52-01

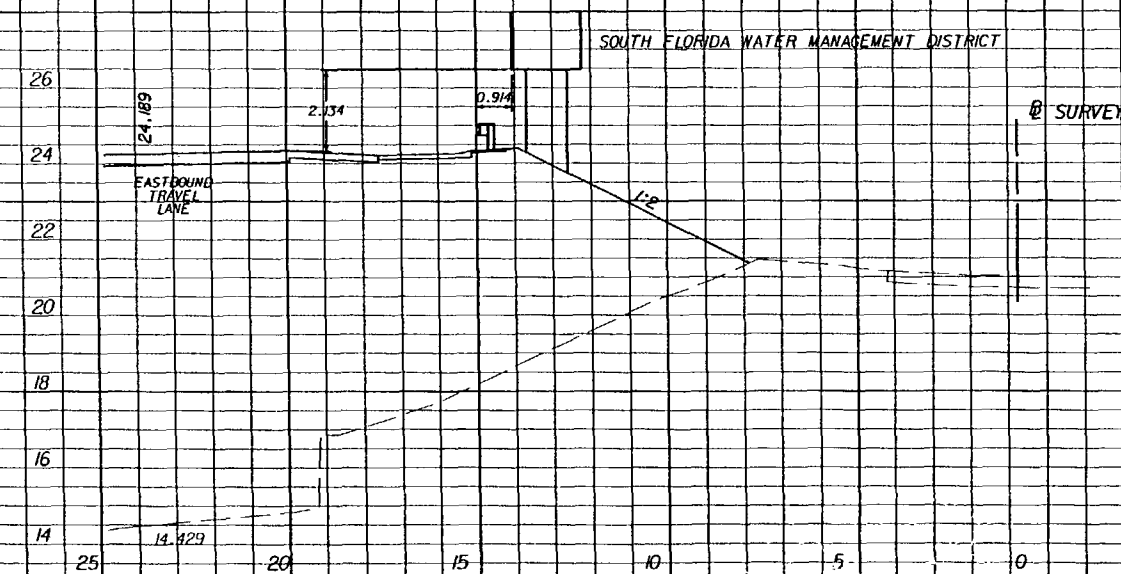
**SIGNING AND PAVEMENT
MARKING**

SHEET
NO.

S-13



106+35.28



106+58.614

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:



WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

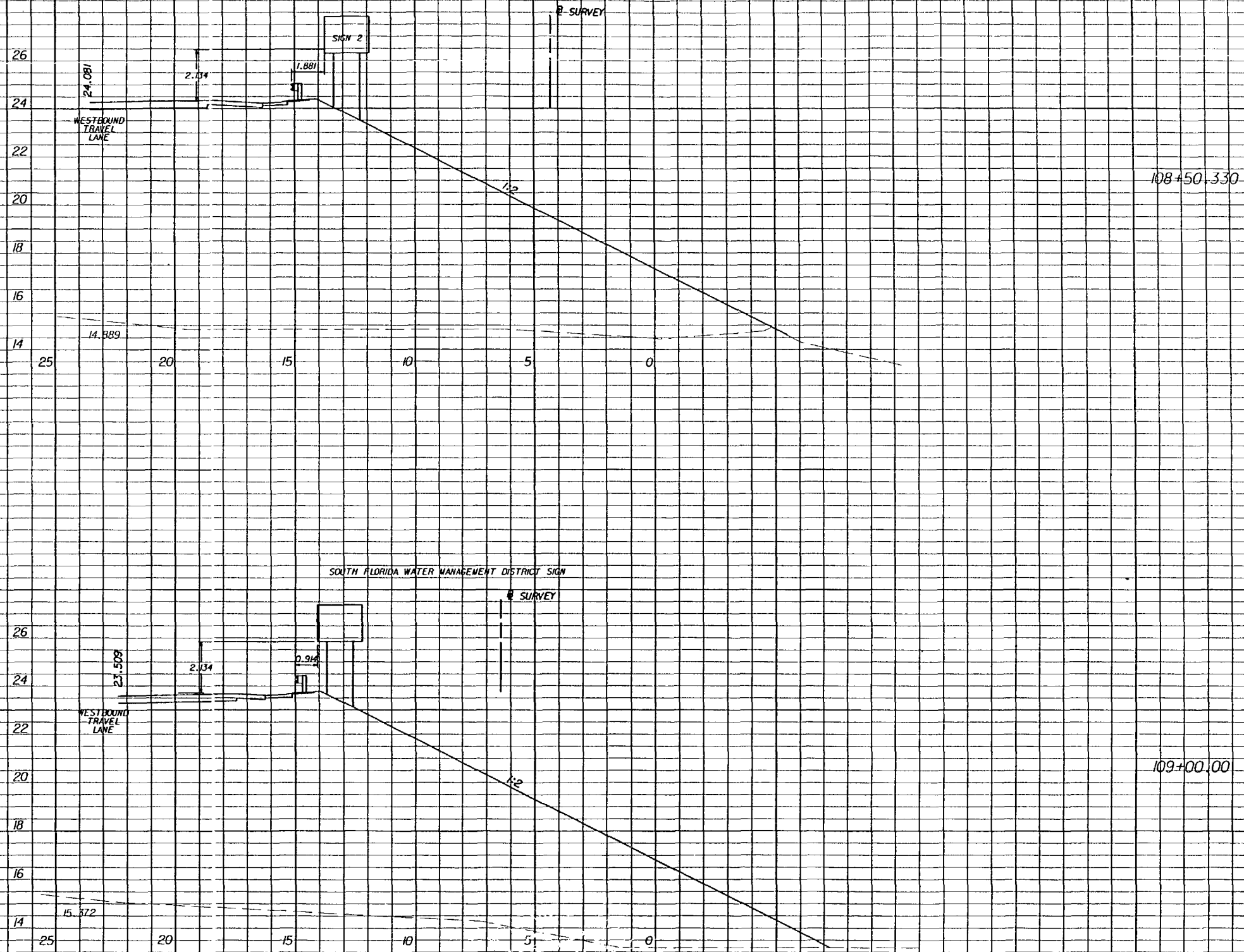
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	POLK	197663-1-52-01

SIGN DETAIL

SHEET
NO.

S-15



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:

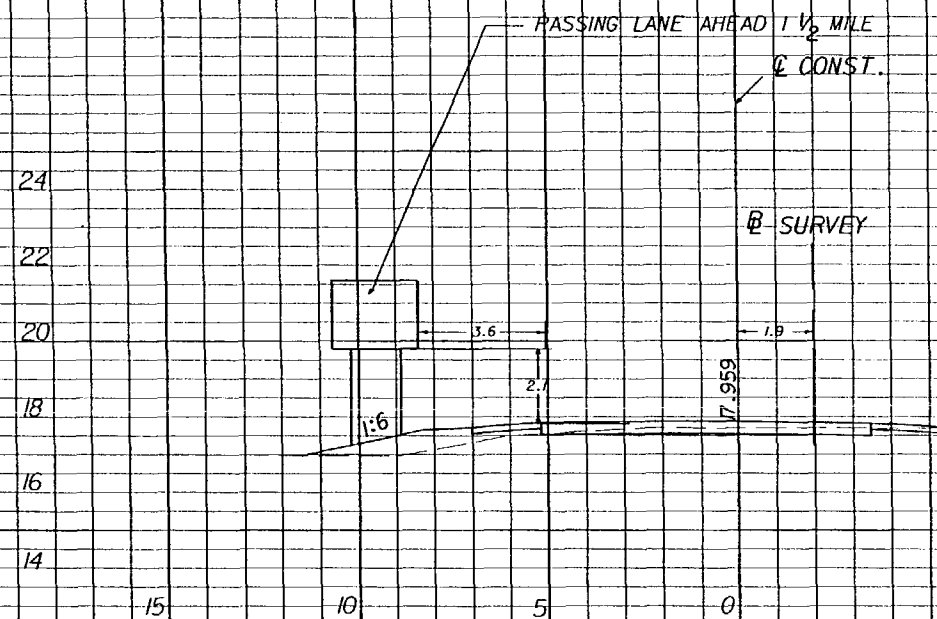

 WILBUR SMITH ASSOCIATES
 3535 LAWTON RD., STE. 100
 ORLANDO, FL. 32803

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA	239718-1-52-01

SIGN DETAIL

SHEET NO.

S-16



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:



WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	POLK	1976-8-1-52-01

SIGN DETAIL

SHEET
NO.

S-17

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS SHEET NOS 1-89
SIGNING AND PAVEMENT MARKING PLANS SHEET NOS S-1-S-17
STRUCTURE PLANS SHEET NOS 13-1-13-31
WALL PLANS SHEET NOS W-1-W-10

A DETAILED INDEX APPEARS ON THE KEY SHEET
OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2 - 3	SUMMARY OF PAY ITEMS
4	DRAINAGE MAP (NOT USED)
5 - 6	TYPICAL SECTION
7 - 8	SUMMARY OF QUANTITIES
9	SUMMARY OF DRAINAGE STRUCTURES
10	GENERAL NOTES AND REFERENCE TIES
11 - 15	ROADWAY PLAN-PROFILES
16 - 20	PLAN - DITCH BLOCKS
21	INTERSECTION DETAILS
22 - 27	DRAINAGE STRUCTURES
28	DITCH BLOCK DETAILS
29	MISC. CONST. DETAILS
30	FLOOD PLAIN COMPENSATION AREA
31	ROADWAY SOIL SURVEY
32 - 38	REPORT OF SPT BORINGS FOR EMBANKMENT
39	MUCK PROBE LOCATION PLAN
40 - 69	CROSS SECTIONS
70 - 81	TRAFFIC CONTROL SHEETS
82 - 84	EROSION CONTROL PLAN
85 - 89	UTILITY ADJUSTMENTS

FINAL PLANS DOCUMENTS:

FIELD BOOK NO. 01/CN5090029
FIELD BOOK NO. 02/CN5090033
COMPUTATION BOOK NO. 01(FIN: 23971815201/ OSCEOLA COUNTY)
COMPUTATION BOOK NO. 02 (FIN: 19766815201/ POLK COUNTY)
COMPUTATION BOOK NO. 03 (BRIDGE NO. 920187)
PILE DRIVING RECORD BOOK NO. 01
PILE DRIVING RECORD BOOK NO. 02
PILE DRIVING RECORD BOOK NO. 03

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY, 2000, AND
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2000.
AS AMENDED BY CONTRACT DOCUMENTS.

CONTRACT # 21264

FAP # (OSCEOLA ONLY)

LETTING DATE 6-20-01

CRIG. AMT \$ 6,084,874.56

CONTRACTOR FREEDOM PIPELINE

ENGR. T. WOODRICK

EST. #445,974

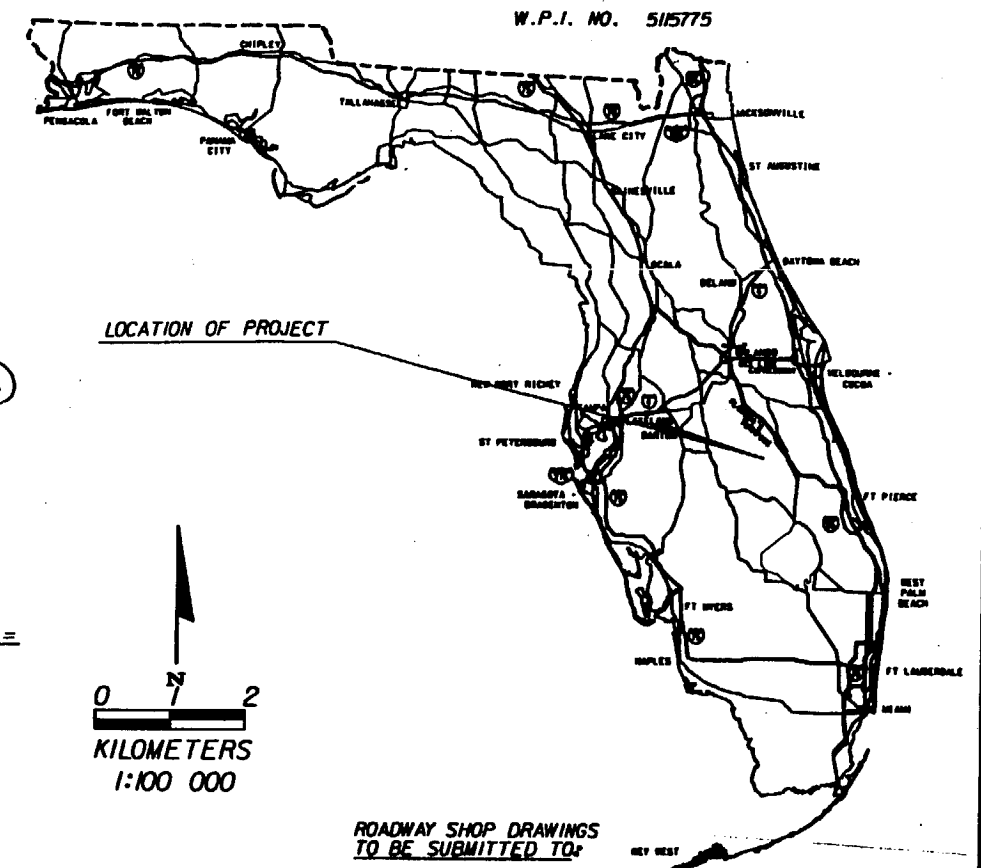
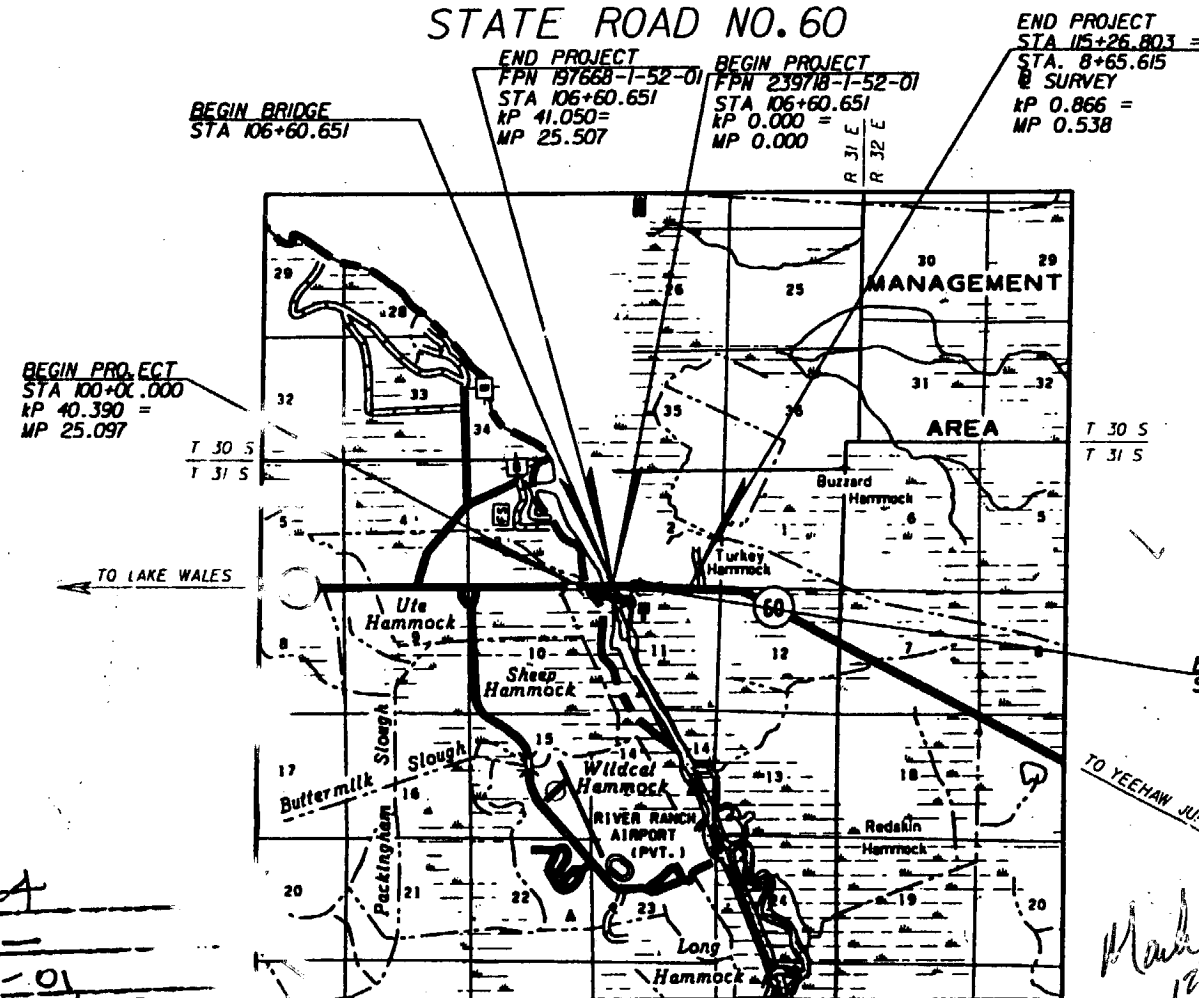
REVISIONS

REVISION NO. 01: SHEETS 05, 44-46, 50-53 (06/08/01)
REVISION NO. 02: SHEET 05 (06/10/03)
REVISION NO. 03: SHEET 06 (06/23/03)

RECYCLED PAPER

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT CONSTRUCTION PLANS FINAL PLANS

FINANCIAL PROJECT NO. 239718-1-52-01
STATE PROJECT NO. 92070-3501
OSCEOLA COUNTY (FEDERAL FUNDS)
FINANCIAL PROJECT NO. 197668-1-52-01
STATE PROJECT NO. 16130-3511
POLK COUNTY (STATE FUNDS)
(FEDERAL FUNDS)
STATE ROAD NO. 60



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

DAVID R. REED, P.E.
TEI, ENGINEERS & PLANNERS
300 PRIMA BLVD., SUITE 200
LAKE MARY, FL 32746

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL
COMPLIANCE WITH THESE PLANS AS APPROVED BY
THE ENGINEER OF RECORD. THESE PLANS REFLECT
"AS BUILT" CONDITIONS AND NO CHANGES WERE
MADE TO THE PLAN SHEETS.

RESIDENT ENGINEER

DATE 12/30/03

CONSTRUCTION NOTES:

CONTRACTOR: FREEDOM PIPELINE CORP.
CONSULTANTS: DRMP & KCCS
DISTRICT SECRETARY: MIKE SNYDER
RESIDENT ENGINEER: CALVIN LANDERS, P.E.
PROJECT ADMINISTRATOR: BARRON SCOTT, DRMP
DATE WORK STARTED: OCTOBER 05, 2001
DATE WORK FINAL ACCEPTED OR COMPLETED: DECEMBER 11, 2003

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGE BY REPRODUCTION

NOTE: THIS IS A METRIC UNIT PROJECT

LENGTH OF PROJECT	
	METERS
ROADWAY	660.651 / 683.277
BRIDGES	0.000 / 182.875
NET LENGTH OF PROJ.	660.651 / 683.277
EXCEPTIONS	N/A
GROSS LENGTH OF PROJ.	660.651 / 866.152

FDOT PROJECT MANAGER: BONNIE BOYLAN, P.E.

REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: SCOTT G. HORLANDER, P.E.
DATE: 12/30/03
P.E. NO. 45521

FISCAL YEAR 01
SHEET NO. 1

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
STRUCTURE PLANS

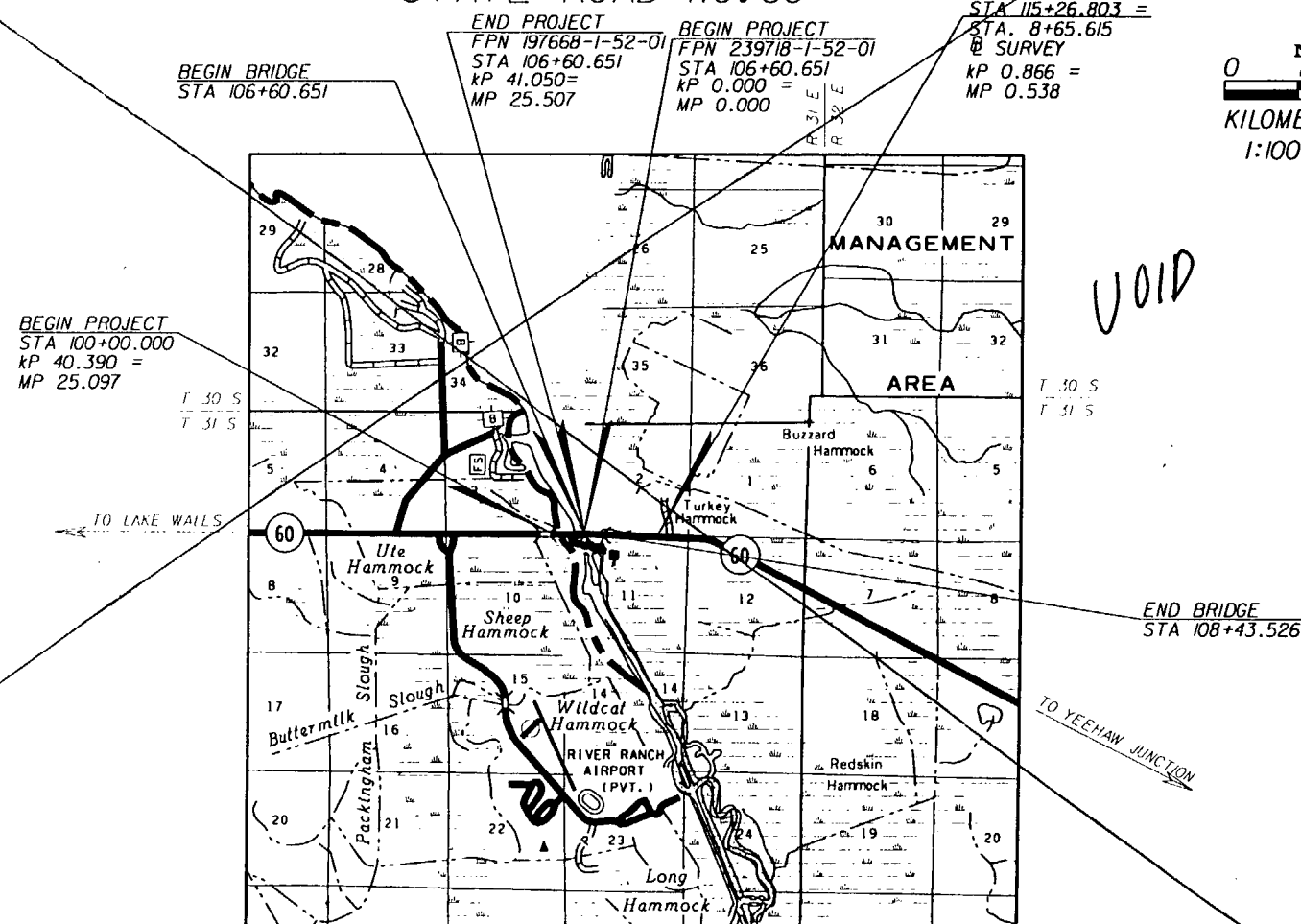
INDEX OF ROADWAY PLANS

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1	KEY SHEET
2 - 3	SUMMARY OF PAY ITEMS
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GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY, 2000, AND
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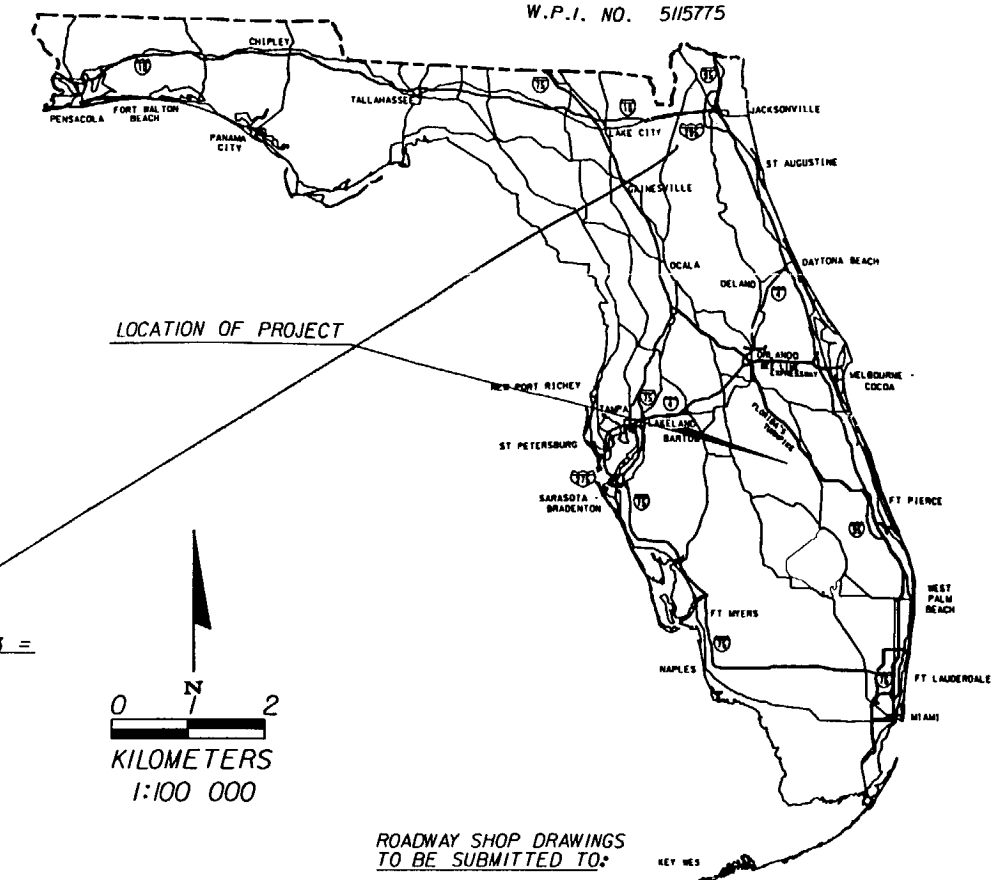
CONTRACT PLANS

FINANCIAL PROJECT NO. 239718-1-52-01
STATE PROJECT NO. 92070-3501
OSCEOLA COUNTY
FINANCIAL PROJECT NO. 197668-1-52-01
STATE PROJECT NO. 16130-3511
POLK COUNTY
(FEDERAL FUNDS)
STATE ROAD NO. 60



LENGTH OF PROJECT	
	METERS
ROADWAY	660.651 / 683.277
BRIDGES	0.000 / 182.875
NET LENGTH OF PROJ.	660.651 / 683.277
EXCEPTIONS	N/A
GROSS LENGTH OF PROJ.	660.651 / 866.152

FDOT PROJECT MANAGER : BONNIE BOYLAN, P.E.



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

DAVID R. REED, P.E.
TEI, ENGINEERS & PLANNERS
300 PRIMERA BLVD., SUITE 200
LAKE MARY, FL 32746

PLANS PREPARED BY



Engineers & Planners

SCOTT G. HORLANDER, P.E.
TEI, ENGINEERS & PLANNERS
300 PRIMERA BLVD., SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
VENDOR NO.: VF-593094436-001
ENGINEERING BUSINESS NO.: EB6185

AND

ALI NOOROLLAHI, P.E.
WILBUR SMITH ASSOCIATES
3535 LAWTON RD. SUITE 100
ORLANDO, FLORIDA 32803
(407) 896-5851

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGE BY REPRODUCTION

~~NOTE: THIS IS A METRIC UNIT PROJECT~~

REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: SCOTT G HORLANDER, P.E.

DATE: _____

P.F. NO. 46624

FISCAL YEAR	SHEET NO.
01	1

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET
OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2 - 3	SUMMARY OF PAY ITEMS
4	DRAINAGE MAP (NOT USED)
5 - 6	TYPICAL SECTION
7 - 8	SUMMARY OF QUANTITIES
9	SUMMARY OF DRAINAGE STRUCTURES
10	GENERAL NOTES AND REFERENCE TIES
11 - 15	ROADWAY PLAN-PROFILES
16 - 20	PLAN - DITCH BLOCKS
21	INTERSECTION DETAILS
22 - 27	DRAINAGE STRUCTURES
28	DITCH BLOCK DETAILS
29	MISC. CONST. DETAILS
30	FLOOD PLAIN COMPENSATION AREA
31	ROADWAY SOIL SURVEY
32 - 38	REPORT OF SPT BORINGS FOR EMBANKMENT
39	MUCK PROBE LOCATION PLAN
40 - 69	CROSS SECTIONS
70 - 81	TRAFFIC CONTROL SHEETS
82 - 84	EROSION CONTROL PLAN
85 - 89	UTILITY ADJUSTMENTS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY, 2000, AND
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2000.
AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT NO. 239718-1-52-01
STATE PROJECT NO. 92070-3501
OSCEOLA COUNTY
FINANCIAL PROJECT NO. 197668-1-52-01
STATE PROJECT NO. 16130-3511
POLK COUNTY
(FEDERAL FUNDS)
STATE ROAD NO. 60

VOID

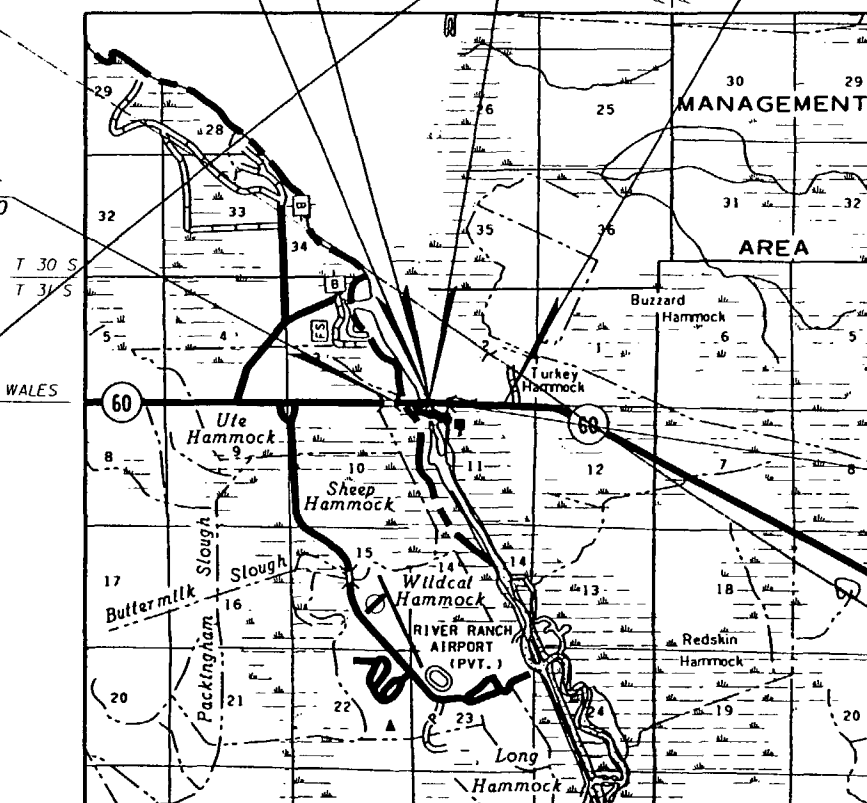
BEGIN BRIDGE
STA 106+60.651

END PROJECT
FPN 197668-1-52-01
STA 106+60.651
KP 41.050 =
MP 25.507

BEGIN PROJECT
FPN 239718-1-52-01
STA 106+60.651
KP 0.000 =
MP 0.000

END PROJECT
STA 115+26.803 =
@ SURVEY
KP 0.866 =
MP 0.538

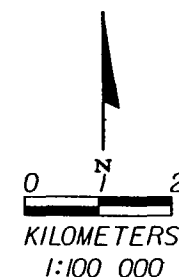
BEGIN PROJECT
STA 100+00.000
KP 40.390 =
MP 25.097



END BRIDGE
STA 108+43.526

TO YEEHAW JUNCTION

LOCATION OF PROJECT



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

DAVID R. REED, P.E.
TEI, ENGINEERS & PLANNERS
300 PRIMERA BLVD., SUITE 200
LAKE MARY, FL 32746

PLANS PREPARED BY



Engineers & Planners

SCOTT G. HORLANDER, P.E.
TEI, ENGINEERS & PLANNERS
300 PRIMERA BLVD., SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
VENDOR NO.: VF-593094436-001
ENGINEERING BUSINESS NO.: EB6185

AND

ALI NOOROLLAHI, P.E.
WILBUR SMITH ASSOCIATES
3535 LAWTON RD. SUITE 100
ORLANDO, FLORIDA 32803
(407) 896-5851

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGE BY REPRODUCTION

NOTE: THIS IS A METRIC UNIT PROJECT

LENGTH OF PROJECT	
	METERS
ROADWAY	660.651 / 683.277
BRIDGES	0.000 / 182.875
NET LENGTH OF PROJ.	660.651 / 683.277
EXCEPTIONS	N/A
GROSS LENGTH OF PROJ.	660.651 / 866.152

FDOT PROJECT MANAGER : BONNIE BOYLAN, P.E.

REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: SCOTT G. HORLANDER, P.E.
DATE: 2/26/01
P.E. NO.: 46624

FISCAL YEAR SHEET NO.
01 1



2/23/01
CES0154

CESPJ15 4
PAGE 01 OF 01

MANDIST: 05 COUNTY: 92 SECTION: 070

239718 1 52 01

A S L P T C	SUMMARY OF BRIDGE PAY ITEMS						
	ITEM	ITEM		UN	23971815201		QUANTITY
	NUMBER			IT	BR = 920187		TOTAL
					FA PART		
	2110 3 A	STRUCTURE REMOVAL OF EXISTING		LS	1.000		1.000
	2400 2 4	CONCRETE CLASS II (SUPERSTRUCTURE)	M3	681.600			681.600
	2400 2 10	CONCRETE CLASS II (APPROACH SLABS)	M3	58.400			58.400
	2400 4 5	CONCRETE CLASS IV (SUBSTRUCTURE)	M3	133.600			133.600
	2400 4 8	CONCRETE CLASS IV (BULKHEAD)	M3	67.200			67.200
	2400 6	PRECAST ANCHOR BEAMS	EA	58.000			58.000
	2400 7	BRIDGE FLOOR GROOVING	M2	2572.000			2572.000
	2400 147	COMPOSITE NEOPRENE PADS	M3	.460			.460
	2415 1 4	REINFORCING STEEL (SUPERSTRUCTURE)	KG	74968.000			74968.000
	2415 1 5	REINFORCING STEEL (SUBSTRUCTURE)	KG	16489.000			16489.000
	2415 1 8	REINFORCING STEEL (BULKHEAD)	KG	6320.000			6320.000
	2415 1 9	REINFORCING STEEL (APPROACH SLABS)	KG	6028.000			6028.000
	2450 1 004	PRESTRESSED BEAMS (F81)(TYPE V)	MI	1090.700			1090.700
	2455 14 12	SHEET PILING CONCRETE (300MM X 1000MM)	MI	2026.400			2026.400
	2455 34 5	PILING(PREST CONC)(610MM SQ)	MI	1496.100			1496.100
	2455 137	TEST LOAD (DYNAMIC)	EA	6.000			6.000
	2455 143 5	TEST PILES(PREST CONC)(610MM SQ)	MI	192.000			192.000
	2459 70	BITUMEN COATING ON CONCRETE PILES	M2	188.900			188.900
	2460 70 3	ALUMINUM RAILINGS (TRIPLE RAIL)	MI	188.900			188.900
	2521 5 1	TRAF RAILING BAR CONC(BR) 815MM F SHAPE	MI	389.800			389.800
	2521 6 1	CONCRETE PARAPET(PEDEST/BICYCLE)	MI	188.900			188.900
	2530 3 3	RIPRAP (RUBBLE) (BANK AND SHORE)	MT	2433.000			2433.000
	2530 74	BEDDING STONE	MT	817.100			817.100
	2548 10	RETAINING WALL SYSTEM (PERMANENT)	M2	207.000			207.000

2/23/01
CES0152

CESPJ15 2
PAGE 01 OF 02

MANDIST: 05 COUNTY: 92 SECTION: 070

239718 1 52 01

A S L P T C	SUMMARY OF ROADWAY PAY ITEMS						
	ITEM	ITEM		UN	23971815201	19766815201	QUANTITY
	NUMBER			IT	FA PART	FA PART	TOTAL
	2101 1 A	MOBILIZATION	LS	1.000	.000		1.000
	2101 1 B	MOBILIZATION	LS	.000	1.000		1.000
	2102 1 A	MAINTENANCE OF TRAFFIC	LS	1.000	.000		1.000
	2102 1 B	MAINTENANCE OF TRAFFIC	LS	.000	1.000		1.000
	2102 3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	M3	137.000	132.000		269.000
	2102 10	OFF DUTY LAW ENFORCEMENT OFFICER	HR	240.000	256.000		496.000
	2102 60	WORK ZONE SIGNS	ED	2250.000	2250.000		4500.000
	2102 69	TEMPORARY CURB	MI	.000	305.000		305.000
	2102 70 11	BARRIER WALL (TEMP) (F81)(STANDARD)(CONCRETE)	MI	857.100	390.100		1247.200
	2102 70 21	BARRIER WALL (TEMP) (REL)(STANDARD)(CONCRETE)	MI	524.700	495.500		1020.200
	2102 74 1	BARRICADE (TEMPORARY)(TYPES I,II,VP & DRUM)	ED	10918.000	11045.000		21963.000
	2102 74 2	BARRICADE (TEMPORARY)(TYPE III) (1800MM)	ED	800.000	800.000		1600.000
	2102 77	HIGH INTENSITY FLASHING LIGHTS (TEMP TYPE B)	ED	800.000	800.000		1600.000
	2102 78	MARKER PAVT REFLECTIVE (TEMPORARY)	EA	3162.000	2322.000		5484.000
	2102 89 7	IMPACT ATTEN VEHIC (TEMP)(REDIRECTIVE OPTION)	LO	6.000	8.000		14.000
	2102 99	SIGN VARIABLE MESSAGE (TEMPORARY)	ED	115.000	115.000		230.000
	2102 911 2	PAVT MARKING REMOVABLE (WHITE/BLACK)(SOLID)	MI	1231.000	560.000		1791.000
	2102 912 2	PAVT MARKING REMOVABLE (YELLOW) (SOLID)	MI	1231.000	560.000		1791.000
	2104 5	SANDBAGGING	M3	2.000	2.000		4.000
	2104 6	SLOPE DRAINS (TEMPORARY)	MI	3.000	7.000		10.000
	2104 10 1	HAY OR STRAW BALE	EA	832.000	704.000		1536.000
	2104 11	TURBIDITY BARRIER FLOATING	MI	2848.000	982.000		3830.000
	2104 13 2	SILT FENCE STAKED (TYPE IV)	MI	1050.000	627.000		1677.000
	2104 15	SOIL TRACKING PREVENTION DEVICE	EA	1.000	1.000		2.000
	2105 70	TRAINEE MANHOURS	HR	4000.000	2000.000		6000.000
	2110 1 1A	CLEARING AND GRUBBING	LS	1.000	.000		1.000
	2110 1 1B	CLEARING AND GRUBBING	LS	.000	1.000		1.000
	2110 7 1	MAILBOX (F81) (SINGLE)	EA	1.000	.000		1.000
	2110 73	EXISTING BULKHEAD (REMOVAL)	MI	18.000	.000		18.000
	2120 1	EXCAVATION REGULAR	M3	3663.000	51380.000		55043.000
	2120 2 2	EXCAVATION BORROW (TRUCK MEASURE)	M3	99946.000	98887.000		198833.000
	2120 4	EXCAVATION SUBSOIL	M3	3432.000	2489.000		5921.000
	2160 4	STABILIZATION TYPE B	M2	10574.000	6741.000		17315.000
	2285 701	BASE OPTIONAL (BASE GROUP M1)	M2	3181.000	2050.000		5231.000
	2285 703	BASE OPTIONAL (BASE GROUP M3)	M2	.000	640.000		640.000
	2285 709	BASE OPTIONAL (BASE GROUP M9)	M2	5012.000	3364.000		8376.000
	2285 712	BASE OPTIONAL (BASE GROUP M12)	M2	.000	1480.000		1480.000
	2300 1 3	BITUMINOUS MATERIAL (TACK COAT)	LI	2317.000	2169.000		4486.000
	2334 1 14	SUPERPAVE ASPHALTIC CONC (TRAFFIC D)	MT	1347.300	1481.700		2829.000
	2337 7 6	ASPH CONC FRICTION COURSE (INC RUBBER)(FC 6)	MT	703.500	645.600		1349.100
	2339 1	ASPHALT PAVEMENT MISCELLANEOUS	MT	89.500	94.200		183.700
	2400 1 15	CONCRETE CLASS I (MISCELLANEOUS)	M3	15.800	.000		15.800
	2425 1 521	INLETS (DT BOT) (TYPE C) (<3M)	EA	.000	2.000		2.000
	2425 1 523	INLETS (DT BOT) (TYPE C) (<3M) (J BOTTOM)	EA	.000	2.000		2.000
	2425 1 601	INLETS (DT BOT) (TYPE J) (<3M)	EA	.000	1.000		1.000
	2425 1 701	INLETS (GUTTER) (TYPE S) (<3M)	EA	10.000	7.000		17.000
	2425 2 41	MANHOLES (P 7) (<3M)	EA	1.000	1.000		2.000
	2430 83 025	PIPE CORR ALUM CULV (GAUGE 16) (450MM GD)	MI	368.100	234.500		602.600
	2430 83 029	PIPE CORR ALUM CULV (GAUGE 16) (600MM GD)	MI	295.900	234.500		530.400
	2430 83 033	PIPE CORR ALUM CULV (GAUGE 16) (750MM GD)	MI	4.800	.000		4.800

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Roadway/AHagerty

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Ali Noubel
2/28/01 structure only

Roadway Items
2/26/01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

SUMMARY OF PAY ITEMS

SHEET NO.

2

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2/23/01
CES0152

CESPJ15 2
PAGE 02 OF 02

CONTRACT ITEMS CONTINUED MANDIST: 05 COUNTY: 92 SECTION: 070 239718 1 52 01

SUMMARY OF ROADWAY PAY ITEMS						
A S L P T C	ITEM NUMBER	ITEM	UN IT	23971815201	19766815201	QUANTITY TOTAL
				FA PART	FA PART	
	2430 982 329	MITERED END SECTION (CORR PIPE ROUND) (600MM CD)	EA	.000	1.000	1.000
	2430 982 333	MITERED END SECTION (CORR PIPE ROUND) (750MM CD)	EA	1.000	.000	1.000
	2514 71 2	PLASTIC FILTER FABRIC (STABILIZATION)	M2	2655.000	1930.000	4585.000
	2515 1 2	PIPE HANDRAIL (ALUMINUM)	MI	68.900	.000	68.900
	2520 6	GUTTER SHOULDER CONCRETE	MI	759.400	520.600	1280.000
	2521 72 3	BARRIER WALL CONCRETE (RIGID SHOULDER)	MI	20.900	.000	20.900
	2522 1	SIDEWALK CONCRETE (100MM)	M2	216.000	.000	216.000
	2530 3 4	RIPRAP (RUBBLE) (DITCH LINING)	MT	14.800	14.500	29.300
	2530 76 2	GABION MAT (230MM THICK)	M2	3115.000	2210.000	5325.000
	2536 1 1	GUARDRAIL (ROADWAY)	MI	818.700	650.900	1509.600
	2536 2	GUARDRAIL (SHOP BENT PANELS)	MI	37.700	7.700	75.400
	2536 73	GUARDRAIL REMOVAL	MI	977.200	104.900	2012.100
	2536 85 22	GUARDRAIL END ANCHORAGE ASSEMBLY FLARED	EA	4.000	6.000	10.000
	2546 71	RUMBLE STRIPS SETS	PS	.000	7.000	7.000
	2550 2	FENCING, TYPE B	MI	167.000	.000	167.000
	2550 3 2	FENCE CORNER POST ASSM (TYPE B)	EA	3.000	.000	3.000
	2550 5 1	FENCE PULL POST ASSM (TYPE B)	EA	1.000	.000	1.000
	2550 6 1	FENCE END POST ASSM (TYPE B)	EA	1.000	.000	1.000
	2570 5	FERTILIZER	MT	3.000	1.100	4.100
	2570 9	WATER FOR GRASSING	KL	149.000	4.700	203.700
	2571 1 11	PLASTIC EROSION MAT (TRM)(TYPE 1)	M2	6111.000	5818.000	11989.000
	2575 1	SODDING	M2	29730.000	10935.000	40665.000
	2575 1 5	SODDING (OVERLAPPED)	M2	10.000	1.000	11.000
	2999 25 A	INITIAL CONTINGENCY AMOUNT (DO NOT BID)	LS	1.000	.000	1.000
	2999 25 B	INITIAL CONTINGENCY AMOUNT (DO NOT BID)	LS	.000	1.000	1.000
	3090 143 07	PIPE PVC (FBI)(THREADED JOINT) (102MM)	MI	19.200	.000	19.200

2/23/01
CES0152

CESPJ15 2
PAGE 01 OF 01

MANDIST: 05 COUNTY: 92 SECTION: 070 239718 1 52 01

SUMMARY OF SIGNING PAY ITEMS						
A S L P T C	ITEM NUMBER	ITEM	UN IT	23971815201	19766815201	QUANTITY TOTAL
				FA PART	FA PART	
	2700 40 1	SIGN SINGLE POST (< 1.25)	AS	7.000	16.000	23.000
	2700 40 2	SIGN SINGLE POST (1.25 OR GREATER)	AS	1.000	.000	1.000
	2700 41 10	SIGN MULTI POST (5 OR LESS)	AS	1.000	1.000	2.000
	2700 46 11	SIGN EXISTING (REMOVAL) (SINGLE POST)	AS	8.000	11.000	19.000
	2700 46 21	SIGN EXISTING (RELOCATE) (SINGLE POST)	AS	.000	3.000	3.000
	2700 46 22	SIGN EXISTING (RELOCATE) (MULTI POST)	AS	.000	2.000	2.000
	2700 48 18	SIGN PANEL (FBI) (1.75 OR LESS)	EA	.000	1.000	1.000
	2705 1	DELINEATOR SINGLE UNIT	EA	.000	4.000	4.000
	2705 3	DELINEATOR TRIPLE UNIT	EA	.000	8.000	8.000
	2706 3	RETRO REFLECTIVE PAVEMENT MARKERS	EA	136.000	178.000	314.000
	2710 23 61	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 150MM)	NK	5.993	4.520	10.513
	2710 24 61	TRAFFIC STRIPE SOLID (YELLOW) (150MM)	NK	6.249	4.044	10.293
	2710 25 81	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 200MM)	MI	.000	56.000	56.000
	2710 25 241	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 600MM)	MI	19.000	19.000	38.000
	2711 7	PAVEMENT MARKING(THERMOPLASTIC)(REMOVAL)	M2	337.900	168.000	505.900

Handwritten:
Traffic not HOT
02-26-01

Handwritten:
Roadway items
2/26/01

REVISIONS						 Engineers & Planners 300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746 (407) 805-0355 ENGINEERING BUSINESS NO. E8685	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF PAY ITEMS	SHEET NO. 3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJ. ID.		
							S.R. 60	OSCEOLA	239718-1-52-01		
							S.R. 60	POLK	197668-1-52-01		

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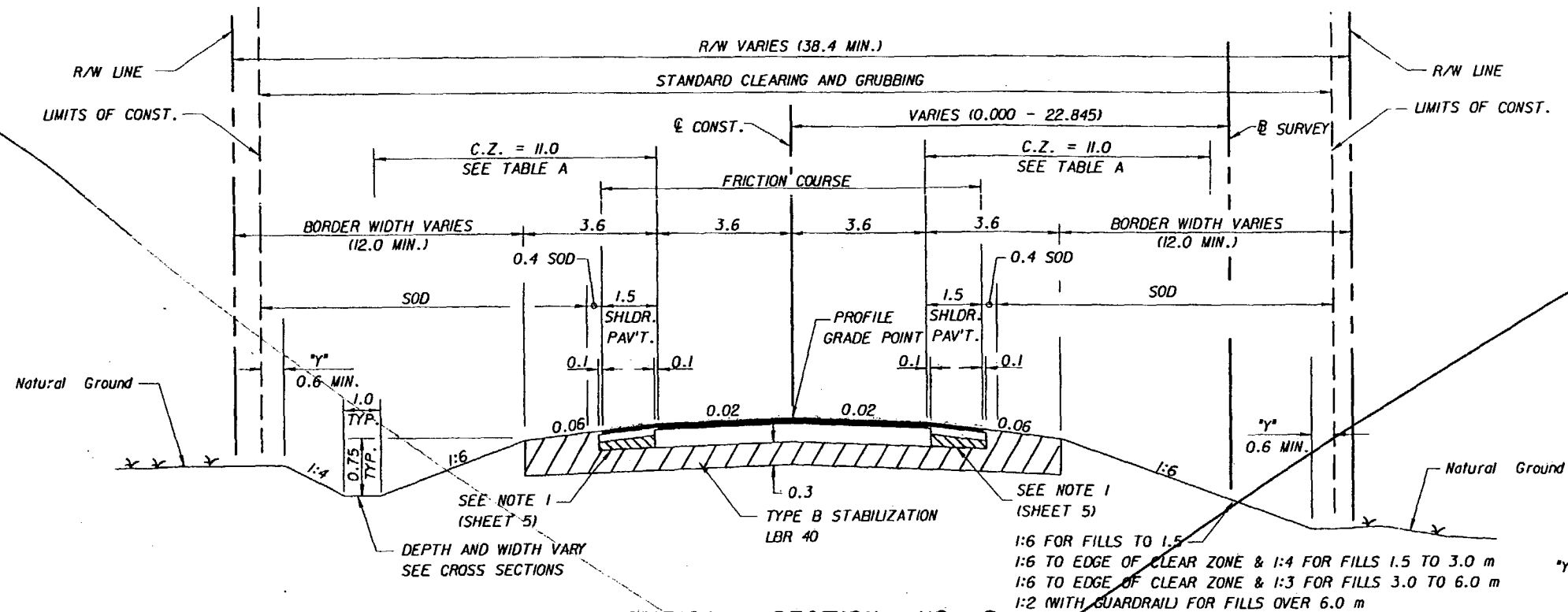


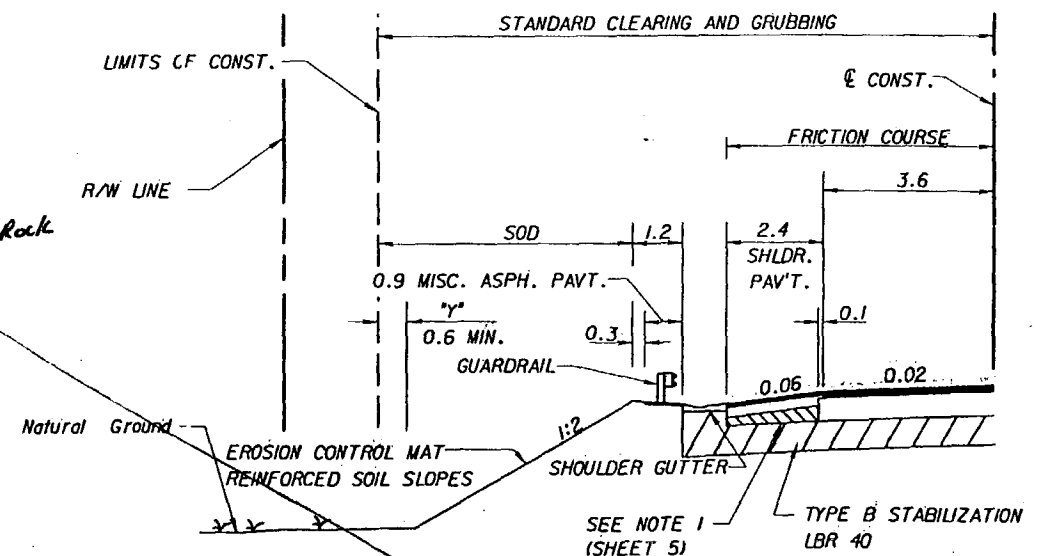
TABLE A - CLEAR ZONE		
LOCATION STA. TO STA.	CLEAR ZONE	
	LEFT	RIGHT
100+00.000 - 100+93.123	11.0	11.0
100+93.123 - 102+98.756	11.0	11.6
102+98.756 - 106+25.859	11.6	11.0
106+25.859 - 108+78.327	11.0	11.0
108+78.327 - 112+02.560	11.6	11.0
112+02.560 - 115+26.803	11.0	11.6

TYPICAL SECTION NO. 2 SR 60

STA. 102+00.000 - STA. 106+54.651
STA. 108+49.526 - STA. 115+26.803

NEW CONSTRUCTION
OPTIONAL BASE GROUP 9 WITH - 100mm Capping Shell Rock
TYPE SP STRUCTURAL COURSE
(TRAFFIC LEVEL D) (220 kg/m²)
AND FRICTION COURSE FC-6 (88 kg/m²)

SHOULDER PAVEMENT (NEW CONSTRUCTION)
OPTIONAL BASE GROUP 1 WITH - 100mm Capping Shell Rock
TYPE SP STRUCTURAL COURSE
(TRAFFIC LEVEL D) (88 kg/m²)
AND FRICTION COURSE FC-6 (88 kg/m²)



SHOULDER TREATMENT

STA. 103+16.793 - STA. 106+33.720 (LT)
STA. 103+39.478 - STA. 106+54.651 (RT)
STA. 108+49.526 - STA. 112+69.950 (LT)
STA. 108+49.526 - STA. 111+63.504 (RT)

REVISIONS			
DATE	BY	DESCRIPTION	

ET&P
Engineers & Planners

300 PRIMA BLVD., SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E66185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	219718-1-52-01
S.R. 60	POLK	197668-1-52-01

TYPICAL SECTION

SHEET NO.

6

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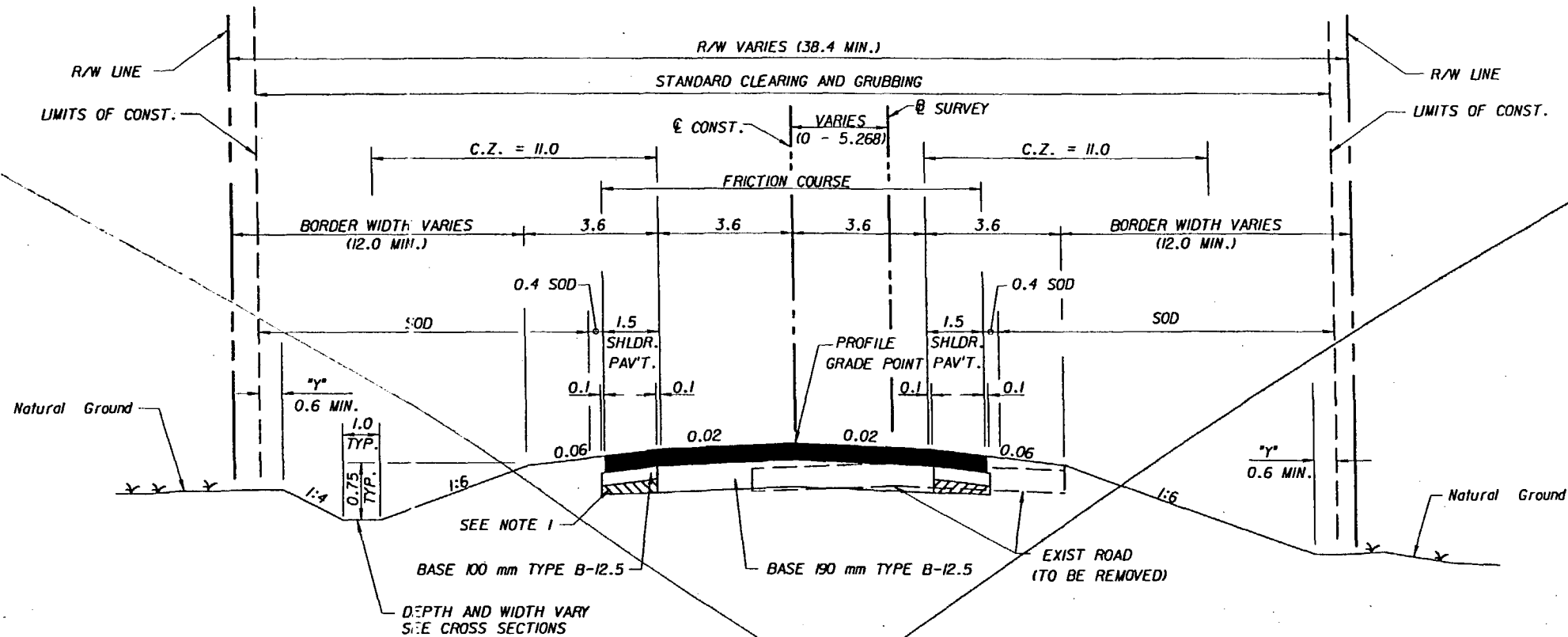
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Highway/David Reed

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29 JAN 2001



TYPICAL SECTION NO. 1
SR 60

STA. 100+00.000 - STA. 102+00.000

TRAFFIC DATA

CURRENT YEAR ESTIMATE = 1996 AADT= 5 000
OPENING YEAR ESTIMATE = 2001 AADT= 5 750
DESIGN YEAR ESTIMATE = 2020 AADT= 8 600
K30 = 8.60% D30 = 57.30% T = 31.00%
DESIGN SPEED = 110 km/h

TYPICAL SECTION NOTES

1. AT THE CONTRACTOR'S OPTION, THIS AREA MAY BE CONSTRUCTED OF BASE MATERIAL AT NO ADDITIONAL COMPENSATION.
2. AN EROSION CONTROL MAT SHALL BE PLACED ON ALL FILL SLOPES STEEPER THAN 1:4.
3. GABION MAT AND PLASTIC FILTER FABRIC SHALL BE PLACED ON ALL SUBMERGED FILL SLOPES TO 0.6 ABOVE THE DESIGN HIGH WATER.

NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE
(TRAFFIC LEVEL D) (286 kg/m²)
AND FRICTION COURSE FC-6 (88 kg/m²)

OPTIONAL BASE COURSES PERMITTED OPTION CODES:
190 mm TYPE B-12.5 612

SHOULDER PAVEMENT (NEW CONSTRUCTION)

OPTIONAL BASE GROUP 3 WITH
TYPE SP STRUCTURAL COURSE
(TRAFFIC LEVEL D) (286 kg/m²)
AND FRICTION COURSE FC-6 (88 kg/m²)

OPTIONAL BASE COURSES PERMITTED OPTION CODES:
100 mm TYPE B-12.5 603

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



300 PRIMA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E66185

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

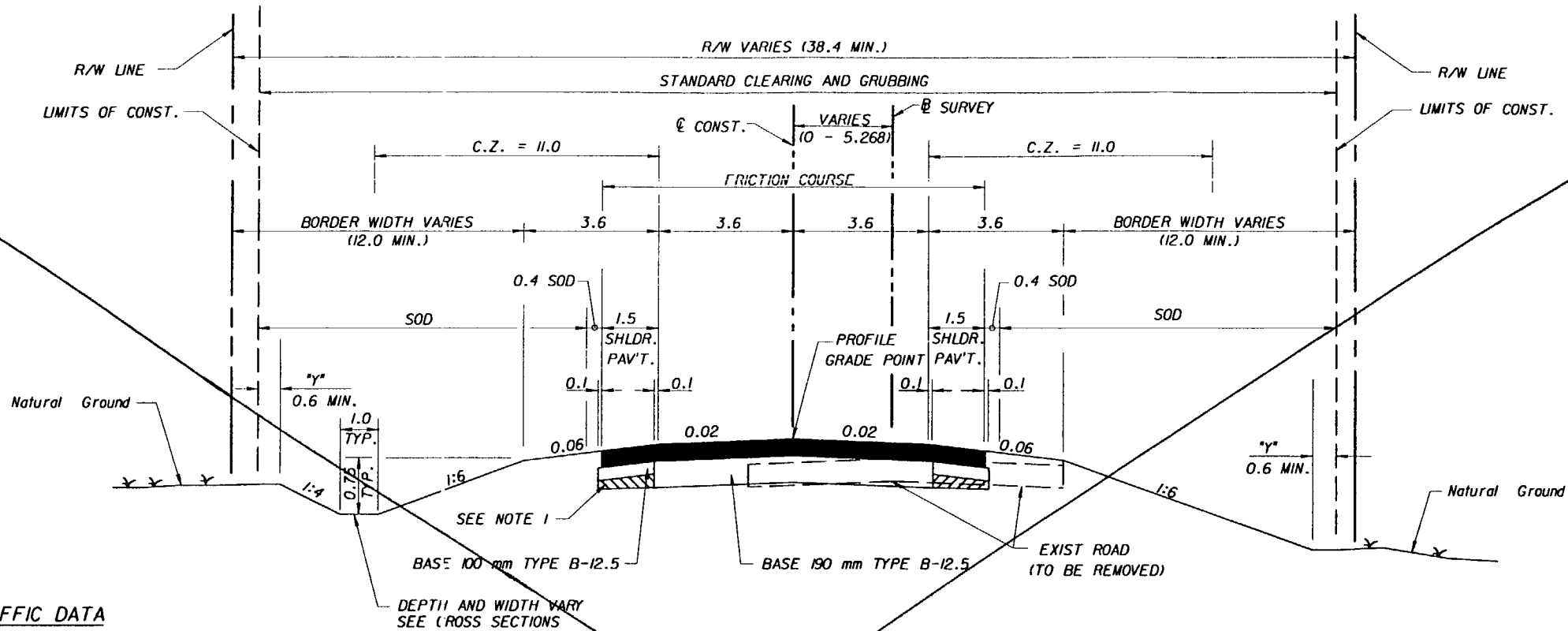
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TYPICAL SECTION

SHEET
NO.

5

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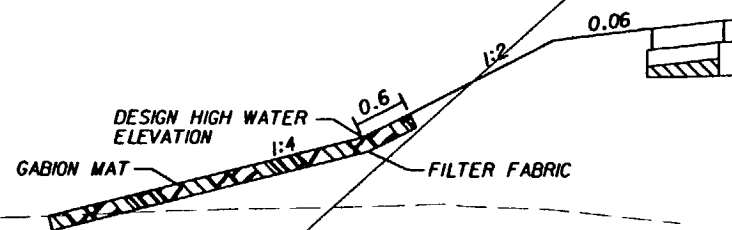


TRAFFIC DATA

CURRENT YEAR ESTIMATE = 1996 AADT= 5 000
OPENING YEAR ESTIMATE = 2001 AADT= 5 750
DESIGN YEAR ESTIMATE = 2020 AADT= 8 600
K30 = 8.60% D30 = 57.30% T = 31.00%
DESIGN SPEED = 110 km/h

TYPICAL SECTION NOTES

1. AT THE CONTRACTOR'S OPTION, THIS AREA MAY BE CONSTRUCTED OF BASE MATERIAL AT NO ADDITIONAL COMPENSATION.
2. AN EROSION CONTROL MAT SHALL BE PLACED ON ALL FILL SLOPES STEEPER THAN 1:4.
3. GABION MAT AND PLASTIC FILTER FABRIC SHALL BE PLACED ON ALL SUBMERGED FILL SLOPES TO 0.6 ABOVE THE DESIGN HIGH WATER.



GABION MAT DETAIL

TYPICAL SECTION NO. 1 SR 60

STA. 100+00.000 - STA. 102+00.000

NEW CONSTRUCTION

OPTIONAL BASE GROUP 12 WITH
TYPE SP STRUCTURAL COURSE
(TRAFFIC LEVEL D) (286 kg/m²)
AND FRICTION COURSE FC-6 (88 kg/m²)

OPTIONAL BASE COURSES PERMITTED OPTION CODES:
190 mm TYPE B-12.5 612

SHOULDER PAVEMENT (NEW CONSTRUCTION)

OPTIONAL BASE GROUP 3 WITH
TYPE SP STRUCTURAL COURSE
(TRAFFIC LEVEL D) (286 kg/m²)
AND FRICTION COURSE FC-6 (88 kg/m²)

OPTIONAL BASE COURSES PERMITTED OPTION CODES:
100 mm TYPE B-12.5 603

VOIDED 6/10/03

6/10/01



300 PRIMERA BLVD., SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E06185

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

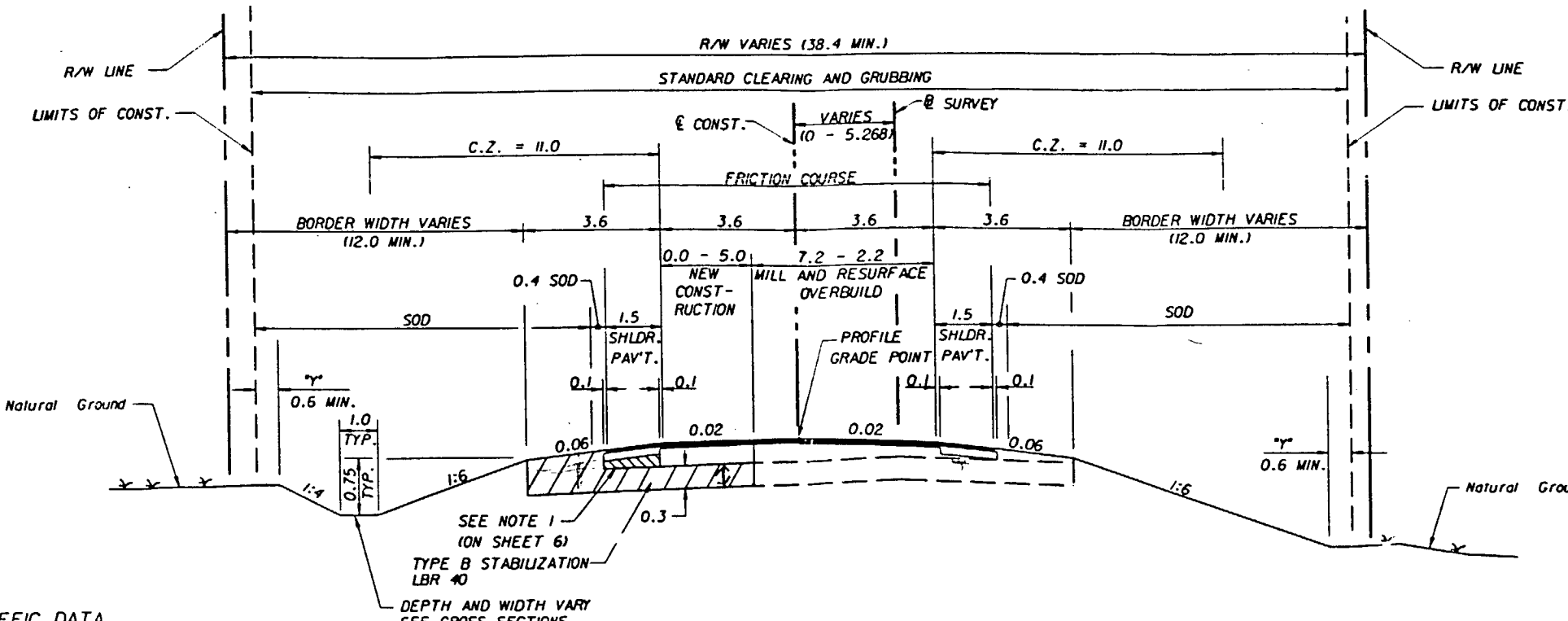
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TYPICAL SECTION

SHEET NO.

5

H:\96157.00\QGN\ypsr001.dgn 11 JUN 2001



DRMP - SR60	
Date rec.	6-10-03
Route To:	Initial
M. Puckett	
B. Scott	
I. Brault	
Reviewed By	
E-mail	6/9/03
File To:	

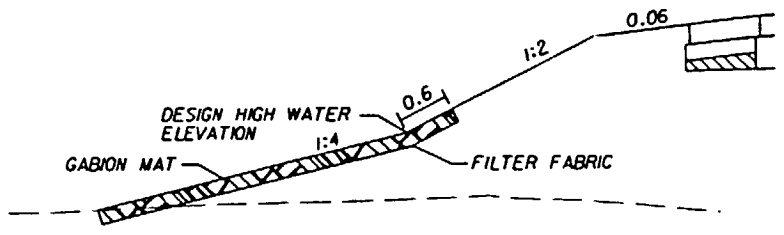
*Revision #2

TRAFFIC DATA

CURRENT YEAR ESTIMATE = 1996 AADT= 5 000
 OPENING YEAR ESTIMATE = 2001 AADT= 5 750
 DESIGN YEAR ESTIMATE = 2020 AADT= 8 600
 K30 = 8.60% D30 = 57.30% T = 31.00%
 DESIGN SPEED = 110 km/h

TYPICAL SECTION
 SR 60
 STA. 100+00.000 - STA. 102+15.000

1. AT THE CONTRACTOR'S OPTION, THIS AREA MAY BE CONSTRUCTED OF BASE MATERIAL AT NO ADDITIONAL COMPENSATION.
2. AN EROSION CONTROL MAT SHALL BE PLACED ON ALL FILL SLOPES STEEPER THAN 1:4.
3. GABION MAT AND PLASTIC FILTER FABRIC SHALL BE PLACED ON ALL SUBMERGED FILL SLOPES TO 0.6 ABOVE THE DESIGN HIGH WATER.



GABION MAT DETAIL

NEW CONSTRUCTION
 OPTIONAL BASE GROUP 12 WITH
 TYPE SP STRUCTURAL COURSE
 (TRAFFIC LEVEL D) (286 kg/m2)
 AND FRICTION COURSE FC-6 (88 kg/m2)
 OPTIONAL BASE COURSES PERMITTED
 190 mm TYPE B-12.5
 OPTION CODES:
 612

SHOULDER PAVEMENT (NEW CONSTRUCTION)
 OPTIONAL BASE GROUP 3 WITH
 TYPE SP STRUCTURAL COURSE
 (TRAFFIC LEVEL D) (143 kg/m2)
 AND FRICTION COURSE FC-6 (88 kg/m2)
 OPTIONAL BASE COURSES PERMITTED
 190 mm TYPE B-12.5
 OPTION CODES:
 612

TYPICAL SECTION
 SR 60
 STA. 100+00.000 - STA. 102+15.000

MILLING AND OVERBUILD
 MILLING DEPTH 50 mm AVG
 OVERBUILD (TRAFFIC LEVEL "C") 138 mm AVG
 AND FRICTION COURSE FC-6 (88 kg/m2)

SHOULDER PAVEMENT (MILLING AND RESURFACING)
 MILLING DEPTH 80 mm AVG
 TYPE SP STRUCTURAL COURSE
 (TRAFFIC LEVEL D) (143 kg/m2)
 AND FRICTION COURSE FC-6 (88 kg/m2)

REVISIONS			
DATE	BY	DESCRIPTION	
6/10/03	TEI	MILLING, OVERBUILD & SHOULDER PAVT. DETAILS	

ETI
 Engineers & Planners
 300 PRIMA BLVD, SUITE 200, LAKE HAWY, FL 32746
 (407) 805-0353 ENGINEERING BUSINESS NO. E06405

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TYPICAL SECTION	
5	

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n:\96157.00\UGN\ypsr01.dgn 06/09/2003

Roadway - As-Built Pavement Data					
Date <u>12-27-03</u> Page No. <u>1</u> of <u>6</u>					
Fin. Project ID:	<u>197668-1-52-01</u>	Material No.:	<u>1230</u>	Sample No.:	<u>0001V</u>
Station From:	<u>100+00</u>	Station To:	<u>102+15</u>	Rdwy Side:	<u>C</u>
Reference Line:	<u>N/A</u>	Source:	<u>07</u>	Plant No.:	<u>*A0614</u>
Intended use:	<u>R-1</u>	Inspec ID (TIN):	<u>T26317254</u>	Quantity:	<u>1 each</u>
Date Tested:		Tested by code	<u>S-W</u>	Status:	<u>UN</u>

Pavement Information					
(Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
	Layer Number	Subgrade (if new)	Base (if new)	1	2
Milling Depth	Layer Code	<u>N/A</u>	<u>N/A</u>	<u>**SP12SC</u>	<u>B12SC</u>
	Approx. Thickness in./mm	<u>N/A</u>	<u>N/A</u>	<u>138mm</u>	<u>190mm</u>

Layer Number	3	4	5	6	7
Layer Code	<u>SP12SD</u>	<u>FC6</u>			
Approx. Thickness in./mm	<u>130mm</u>	<u>40mm</u>			

Remarks: * CONTRACTOR USED TWO PLANTS FOR ASPHALT
CONSTRUCTION ON THIS PROJECT (*A0614 & A0611)
** TYPICAL SECTION REVISIONS 6/10/03

Roadway - As-Built Pavement Data					
Date <u>12-27-03</u> Page No. <u>2</u> of <u>6</u>					
Fin. Project ID:	<u>197668-1-52-01</u>	Material No.:	<u>1230</u>	Sample No.:	<u>0003V</u>
Station From:	<u>100+00</u>	Station To:	<u>102+15</u>	Rdwy Side:	<u>C</u>
Reference Line:	<u>N/A</u>	Source:	<u>07</u>	Plant No.:	<u>*A0614</u>
Intended use:	<u>L-1</u>	Inspec ID (TIN):	<u>T21317254</u>	Quantity:	<u>1 each</u>
Date Tested:		Tested by code		Status:	<u>UN</u>

Pavement Information					
(Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
	Layer Number	Subgrade (if new)	Base (if new)	1	2
Milling Depth	Layer Code	<u>N/A</u>	<u>N/A</u>	<u>SP12SC</u>	<u>B12SC</u>
	Approx. Thickness in./mm	<u>N/A</u>	<u>N/A</u>	<u>138mm</u>	<u>190mm</u>

Layer Number	3	4	5	6	7
Layer Code	<u>SP12SD</u>	<u>FC-6</u>			
Approx. Thickness in./mm	<u>130mm</u>	<u>40mm</u>			

Remarks: * CONTRACTOR USED TWO PLANTS FOR ASPHALT CONSTRUCTION
ON THIS PROJECT (*A0614 & A0611)
** TYPICAL SECTION REVISIONS 6/10/03

Roadway - As-Built Pavement Data
Date 12-29-03 Page No. 3 of 6

Fin. Project ID: 197663-1-S2-01 Material No.: 1230 Sample No.: 00024 Date Smpl: 10-18-03
Station From: 102+15 Station To: 106+55 Rdwy Side: C Mainline: Y
Reference Line: N/A Source: 07 Plant No.: A0614 Quantity: 1 each
Intended use: R-1 Inspec ID (TIN): T26317254 Date Recd: 10-18-03
Date Tested: Tested by code S-W Status: UN Tester ID (TIN):

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
	Layer Number	Subgrade (if new)	Base (if new)	1	2
Milling Depth	Layer Code	ST40	SHCC	N/A	N/A
	Approx. Thickness in./mm	300mm	250mm	N/A	N/A

Layer Number	3	4	5	6	7
Layer Code	SP12SD	FCL			
Approx. Thickness in./mm	100mm	40mm			

Remarks:

SHEET NO.
60

Roadway - As-Built Pavement Data
Date 12-29-03 Page No. 4 of 6

Fin. Project ID: 197663-1-S2-01 Material No.: 1230 Sample No.: 00044 Date Smpl: 10-18-03
Station From: 102+15 Station To: 106+55 Rdwy Side: C Mainline: Y
Reference Line: N/A Source: 07 Plant No.: A0614 Quantity: 1 each
Intended use: L-1 Inspec ID (TIN): T26317254 Date Recd:
Date Tested: Tested by code S-W Status: UN Tester ID (TIN):

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
	Layer Number	Subgrade (if new)	Base (if new)	1	2
Milling Depth	Layer Code	ST40	SHCC	N/A	N/A
	Approx. Thickness in./mm	300mm	250mm	N/A	N/A

Layer Number	3	4	5	6	7
Layer Code	SP12SD	FCL			
Approx. Thickness in./mm	100mm	40mm			

Remarks:

SHEET NO.
60

Roadway - As-Built Pavement Data					
Date 12-29-03 Page No. 5 of 6					
Fin. Project ID: 239718-1-S2-01		Material No.: 1230		Sample No.: 0005V	
Station From: 108+49		Station To: 115+27		Date Smpl: 10-17-03	
Reference Line: N/A		Source: 07		Rdwy Side: C Mainline: Y	
Intended use: R-1		Plant No.: A0614		Quantity: 1 each	
Inspe ID (TIN): T26317254		Date Recd:			
Date Tested:		Tested by code S		Status: UN Tester ID (TIN):	

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
	Layer Code	ST40	SHCC	N/A	N/A
	Approx. Thickness in./mm	300mm	250mm	N/A	N/A

Layer Number	3	4	5	6	7
Layer Code	SP12SD	2C6			
Approx. Thickness in./mm	100mm	40mm			

Remarks: * Contractor used two plants for ASPHALT construction on this project (#A0614 & A0611)

Roadway - As-Built Pavement Data					
Date 12-29-03 Page No. 6 of 6					
Fin. Project ID: 239718-1-S2-01		Material No.: 1230		Sample No.: 0006V	
Station From: 108+49		Station To: 115+27		Date Smpl: 10-17-03	
Reference Line: N/A		Source: 07		Rdwy Side: C Mainline: Y	
Intended use: R-1		Plant No.: A-0614		Quantity: 1 each	
Inspe ID (TIN): T26317254		Date Recd:			
Date Tested:		Tested by code		Status: UN Tester ID (TIN):	

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
	Layer Code	ST40	SHCC	N/A	N/A
	Approx. Thickness in./mm	300mm	250mm	N/A	N/A

Layer Number	3	4	5	6	7
Layer Code	SP12SD	2C6			
Approx. Thickness in./mm	100mm	40mm			

Remarks: * Contractor used two plants for ASPHALT construction on this project (#A0614 & A0611)

PAY ITEM NOTES

- 2102-1A INCLUDES APPROXIMATELY 734 M2 OF TEMPORARY PAVEMENT.
 2104-15 TO BE USED AT CONSTRUCTION ENTRANCE POINTS TO S.R. 60. LOCATIONS TO BE APPROVED BY THE ENGINEER.
 2107-1-1A INCLUDES THE COST OF REMOVAL OF ALL ITEMS WITHIN THE EXISTING MARINA AREA (APPROXIMATE STATION 100+00 TO 103+00 LT). INCLUDES REMOVAL OF BASE MATERIAL UNDER FLEXIBLE PAVEMENT.
 2120-2-2 ONLY SOILS CLASSIFIED AS A-3 MATERIAL SHALL BE USED FOR EMBANKMENT SECTIONS THAT ARE BELOW THE DESIGN HIGH WATER ELEVATION IN LAKE KISSIMMEE.
 THE VOLUME REQUIRED = 18423 M3
 2570-5 BASED ON TWO APPLICATIONS.
 2710- THE TOTALS SHOWN ON THE SUMMARY OF ROADWAY PAY ITEMS INCLUDE THE QUANTITIES FOR PAVEMENT MARKINGS USED FOR TRAFFIC CONTROL PAVEMENT MARKINGS (AS SHOWN IN THE ROADWAY PLANS) AND FOR FINAL PAVEMENT MARKINGS (AS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLANS.)
 2514-71-2 FILTER FABRIC SHALL MEET THE REQUIREMENTS OF TYPE D-2 FABRIC
 2530-3-4 AS PER INDEX 199 WITH A MAXIMUM A.O.S. OF 0.25MM AND MINIMUM PERMITTIVITY OF 0.2/SEC.
 2520-6 INCLUDES COST OF CONCRETE FLUMES AT STA. 104+14.
 2571-1-II SHALL BE NORTH AMERICAN GREEN P300 OR APPROVED EQUAL.

SUMMARY OF EROSION CONTROL MAT

LOCATION STA. TO STA.	SIDE	EROSION CONTROL MAT				REMARKS	FIELD BOOK REFERENCE
		M1		M2			
		L	W	P	F		
103+00.000 TO 103+50.000	LT.	50.0	1.6	80.0			
103+50.000 TO 104+00.000	LT.	50.0	5.8	290.0			
104+00.000 TO 104+50.000	LT.	50.0	9.0	450.0			
104+50.000 TO 105+00.000	LT.	50.0	11.6	580.0			
105+00.000 TO 105+50.000	LT.	50.0	14.1	705.0			
105+50.000 TO 106+00.000	LT.	50.0	16.2	810.0			
106+00.000 TO 106+50.000	LT.	50.0	16.7	835.0			
106+50.000 TO 106+60.651	LT.	10.7	10.9	116.1			
103+00.000 TO 103+50.000	RT.	50.0	2.5	125.0			
103+50.000 TO 104+00.000	RT.	50.0	2.3	115.0			
104+00.000 TO 104+50.000	RT.	50.0	4.1	205.0			
104+50.000 TO 105+00.000	RT.	50.0	6.3	315.0			
105+00.000 TO 105+50.000	RT.	50.0	7.5	375.0			
105+50.000 TO 106+00.000	RT.	50.0	7.7	385.0			
106+00.000 TO 106+50.000	RT.	50.0	7.7	385.0			
106+50.000 TO 106+60.651	RT.	10.7	10.0	106.5			
TOTAL				5878			

SUMMARY OF SILT FENCE

STATION	SIDE	LENGTH MI	
		P	F
100+00.000	RT.	10.0	
100+00.000	LT.	10.0	
100+00.000 TO 104+00.000	RT.	400.0	
104+28.000 TO 106+35.000	RT.	207.0	
TOTAL		627.0	

SUMMARY OF GABION MAT & PLASTIC FILTER FABRIC

LOCATION	SIDE	GABION MAT				PLASTIC FILTER FABRIC				REMARKS	FIELD BOOK REFERENCE
STA. TO STA.		M1		M2		M1		M2			
		L	W	P	F	L	W	P	F		
103+50.000 TO 104+00.000	LT.	50.0	8.8	440.0		50.0	8.1	405.0			
104+00.000 TO 104+50.000	LT.	50.0	13.3	615.0		50.0	12.0	600.0			
104+50.000 TO 105+00.000	LT.	50.0	6.9	345.0		50.0	5.6	280.0			
105+00.000 TO 105+50.000	LT.	50.0	4.8	240.0		50.0	3.5	175.0			
105+50.000 TO 106+00.000	LT.	50.0	6.9	345.0		50.0	5.6	280.0			
106+00.000 TO 106+50.000	LT.	50.0	4.5	225.0		50.0	3.8	190.0			
TOTAL				2210				1930			

SUMMARY OF GUARDRAIL

LOCATION STA. TO STA.	SIDE	GUARDRAIL		SHOP BENT PANELS		END ANCHORAGE		GUARDRAIL REMOVAL		FIELD BOOK REFERENCE
		P	F	P	F	EA	EA	P	F	
99+97.430 TO 100+49.746	LT.	53.3	53.3			1	1			
103+03.697 TO 105+65.000	LT.	274.2	274.2			1	1			
99+99.250 TO 100+49.774	RT.	50.5	50.5			1	1			
103+27.892 TO 104+07.182	RT.	99.1	99.1			1	1			
103+96.230 TO 104+08.280	RT.			18.85	18.85					
104+21.583 TO 104+33.581	RT.			18.85	18.85			413.1	175	101+27.14 TO 101+27.14 RT.
104+22.444 TO 106+54.651	RT.	213.8	213.8					236.2	401	101+27.14 TO 101+27.14 RT.
403+92.105 TO 408+05.161	RT.							26.9	238	101+27.14 TO 101+27.14 RT.
408+44.620 TO 410+50.781	RT.							358.7	228	101+27.14 TO 101+27.14 RT.
403+92.105 TO 404+19.010	LT.									
406+92.054 TO 410+50.758	LT.							1034.9	-0-	101+27.14 TO 101+27.14 RT.
TOTAL		690.9	690.9	37.7	37.7	4	4	2	2	992

SUMMARY OF FLOATING TURBIDITY BARRIER

LOCATION STA. TO STA.	SIDE	LENGTH		REMARKS	FIELD BOOK REFERENCE
		P	F		
100+60.000 TO 102+15.000	LT.	310.0			
102+15.000 TO 102+95.000	LT.	80.0			
102+95.000 TO 105+65.000	LT.	540.2			
106+35.000 TO 106+60.651	RT.	51.4			
TOTAL		981.6			

SUMMARY OF EARTHWORK

DESCRIPTION	P	F
	M3	M3
PROJECT FILL	58 007	
FILL ADJUSTMENT (35%)(58 344 X .35)	20 302	
TOTAL PROJECT FILL	78 309	
TRUCK ADJUSTMENT (25%)(78 764 X .25)	19 578	
TOTAL PROJECT BORROW EXCAVATION	98 887	86940
TOTAL PROJECT REGULAR EXCAVATION	51 380	51,380
TOTAL PROJECT SUBSOIL EXCAVATION	2 489	2,489

NOTE:

1. EARTHWORK HAS BEEN CALCULATED USING THE LIMEROCK BASE OPTION EXCEPT WHERE A PARTICULAR OPTION IS SPECIFIED. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.
2. ESTIMATED 39.8 M3 OF UNCLASSIFIED MATERIAL TO BE DISPLACED BY THE STORM SEWER (OR DRAINAGE STRUCTURE) SYSTEM NOT INCLUDED IN QUANTITIES SHOWN ABOVE.

SUMMARY OF HAYBALES

STATION	SIDE	NUMBER EA	
		P	F
102+50.000	RT.	64.0	
103+19.225	LT.	64.0	
103+19.225	RT.	64.0	
103+41.815	RT.	64.0	
103+50.000	RT.	64.0	
103+75.000	RT.	64.0	
104+36.335	LT.	64.0	
104+36.335	RT.	64.0	
104+50.000	RT.	64.0	
105+06.000	RT.	64.0	
105+45.000	LT.	64.0	
TOTAL		704.0	

HAY BALE LOCATIONS ARE FOR QUANTITY CALCULATION ONLY AND ARE TO BE FIELD DETERMINED AND/OR ADJUSTED AS NEEDED. QUANTITIES BASED UPON 8 REPLACEMENTS.

SUMMARY OF SODDING

LOCATION STA. TO STA.	SIDE	SODDING				REMARKS	FIELD BOOK REFERENCE
		M1		M2			
		L	W	P	F		
100+00.000 TO 100+50.000	LT.	50.0	2.8	140.0			
100+50.000 TO 101+00.000	LT.	50.0	6.5	325.0			
101+00.000 TO 101+50.000	LT.	50.0	7.1	355.0			
101+50.000 TO 102+00.000	LT.	50.0	6.2	310.0			
102+00.000 TO 102+50.000	LT.	50.0	6.0	300.0			
102+50.000 TO 103+00.000	LT.	50.0	8.2	410.0			
103+00.000 TO 103+50.000	LT.	50.0	6.9	345.0			
103+50.000 TO 104+00.000	LT.	50.0	6.1	305.0			
104+00.000 TO 104+50.000	LT.	50.0	9.3	465.0			
104+50.000 TO 105+00.000	LT.	50.0	11.9	595.0			
105+00.000 TO 105+50.000	LT.	50.0	14.4	720.0			
105+50.000 TO 106+00.000	LT.	50.0	16.5	825.0			
106+00.000 TO 106+50.000	LT.	50.0	18.4	920.0			
106+50.000 TO 106+60.651	LT.	10.7	18.8	200.2			
100+00.000 TO 100+50.000	RT.	50.0	3.9	195.0			
100+50.000 TO 101+00.000	RT.	50.0	7.4	370.0			
101+00.000 TO 101+50.000	RT.	50.0	6.6	330.0			
101+50.000 TO 102+00.000	RT.	50.0	7.6	380.0			
102+00.000 TO 102+50.000	RT.	50.0	7.3	365.0			
102+50.000 TO 103+00.000	RT.	50.0	3.6	180.0			
103+00.000 TO 103+50.000	RT.	50.0	3.6	180.0			
103+50.000 TO 104+00.000	RT.	50.0	3.4	170.0			
104+00.000 TO 104+50.000	RT.	50.0	4.4	220.0			
104+50.000 TO 105+00.000	RT.	50.0	7.0	350.0			
105+00.000 TO 105+50.000	RT.	50.0	8.2	410.0			
105+50.000 TO 106+00.000	RT.	50.0	9.0	450.0			
106+00.000 TO 106+50.000	RT.	50.0	16.6	830.0			
106+50.000 TO 106+60.651	RT.	10.7	27.2	289.7			
TOTAL				10935			

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3/6/01

PAY ITEM NOTES

- 2102-1B INCLUDES APPROXIMATELY 1765 M2 OF TEMPORARY PAVEMENT.
 2104-15 TO BE USED AT CONSTRUCTION ENTRANCE POINTS TO S.R. 60. LOCATIONS TO BE APPROVED BY THE ENGINEER.
 2110-1-1B INCLUDES REMOVAL OF BASE MATERIAL UNDER FLEXIBLE PAVEMENT.
 2120-2-2 ONLY SOILS CLASSIFIED AS A-3 MATERIAL SHALL BE USED FOR EMBANKMENT SECTIONS THAT ARE BELOW THE DESIGN HIGH WATER ELEVATION IN LAKE KISSIMMEE. THE VOLUME REQUIRED = 9839 M3
 2400-1-15 USED FOR THE CONSTRUCTION OF DITCH BOCKS.
 2514-71-2 FILTER FABRIC SHALL MEET THE REQUIREMENTS OF TYPE D-2 FABRIC AS PER INDEX 199 WITH A MAXIMUM A.O.S. OF 0.25MM AND MINIMUM PERMITTIVITY OF 0.2/SEC.
 2530-3-4 INCLUDES COST OF CONCRETE FLUMES AT STA. 110+88.
 2522-1 INCLUDES COST OF ADDITIONAL CONCRETE FOR HANDRAIL ATTACHMENTS.
 2570-5 BASED ON TWO APPLICATIONS.
 2571-1-11 SHALL BE NORTH AMERICAN GREEN P300 OR APPROVED EQUAL.
 2710- THE TOTALS SHOWN ON THE SUMMARY OF ROADWAY PAY ITEMS INCLUDE THE QUANTITIES FOR PAVEMENT MARKINGS USED FOR TRAFFIC CONTROL PAVEMENT MARKINGS (AS SHOWN IN THE ROADWAY PLANS) AND FOR FINAL PAVEMENT MARKINGS (AS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLANS.)

SUMMARY OF FLOATING TURBIDITY BARRIER

LOCATION STA. TO STA.	SIDE	LENGTH MI		REMARKS	FIELD BOOK REFERENCE
		P	F		
105+65.000 TO 106+70.000	LT.	209.7			
106+60.651 TO 106+70.000	RT.	18.6			
106+70.000	C/L	180.0			
106+97.000	C/L	170.0			
107+34.000	C/L	170.0			
107+70.000	C/L	170.0			
108+07.000	C/L	170.0			
108+25.000 TO 108+65.000	RT.	80.0			
108+25.000 TO 111+50.000	LT.	650.0			
106+70.000 TO 106+92.000	RT.	118.0			
106+92.000 TO 107+27.000	RT.	200.0			
107+27.000 TO 107+64.000	RT.	208.0			
107+64.000 TO 108+00.000	RT.	204.0			
108+00.000 TO 108+35.000	RT.	170.0			
108+25.000	C/L	130.0			
TOTAL		2848.3			

SUMMARY OF GABION MAT & PLASTIC FILTER FABRIC

LOCATION STA. TO STA.	SIDE	GABION MAT				PLASTIC FILTER FABRIC				REMARKS	FIELD BOOK REFERENCE
		L	W	P	F	L	W	P	F		
108+50.000 TO 109+00.000	LT.	50.0	6.7	335.0		50.0	6.0	300.0			
109+00.000 TO 109+50.000	LT.	50.0	13.7	685.0		50.0	12.4	620.0			
109+50.000 TO 110+00.000	LT.	50.0	14.1	705.0		50.0	12.8	640.0			
110+00.000 TO 110+50.000	LT.	50.0	10.0	500.0		50.0	8.7	435.0			
110+50.000 TO 111+00.000	LT.	50.0	5.9	295.0		50.0	4.6	230.0			
111+00.000 TO 111+50.000	LT.	50.0	5.2	260.0		50.0	3.9	195.0			
111+50.000 TO 112+00.000	LT.	50.0	4.4	220.0		50.0	3.1	155.0			
112+00.000 TO 112+50.000	LT.	50.0	2.3	115.0		50.0	1.6	80.0			
TOTAL				3115				2655			

SUMMARY OF GUARDRAIL

LOCATION STA. TO STA.	SIDE	GUARDRAIL		SHOP BENT PANELS		END ANCHORAGE		GUARDRAIL REMOVAL		FIELD BOOK REFERENCE
		P	F	P	F	SRT350 EA	MELT EA	P	F	
105+65.000 TO 106+33.720	LT	71.5	71.50							
108+49.526 TO 112+81.288	LT.	434.3	434.30							
108+49.526 TO 110+81.706	RT.	251.5	251.50							
110+70.26 TO 110+82.311	RT.			18.85	18.85	1	1			108+49.526
110+95.135 TO 111+07.133	RT.			18.85	18.85	1	1			110+70.26
110+96.426 TO 111+74.805	RT.	61.4	61.40							
1186.823 TO 4+12.778	RT.							225.4	-0-	
4+42.002 TO 6+90.205	RT.							248.2	-0-	
1186.928 TO 6+90.552	LT.							503.6	-0-	
TOTAL		818.7	818.70	37.7	37.70	2	2	977.2	1246	

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



300 PRIMA BLVD., SUITE 200, LAKE MARY, FL 32746
 (407) 805-0355 ENGINEERING BUSINESS NO. E66185

SUMMARY OF SODDING

LOCATION STA. TO STA.	SIDE	SODDING				REMARKS	FIELD BOOK REFERENCE
		L	W	P	F		
108+43.527 TO 108+50.000	LT.	6.5	19.7	127.5			
108+50.000 TO 109+00.000	LT.	50.0	18.7	935.0			
109+00.000 TO 109+50.000	LT.	50.0	16.4	820.0			
109+50.000 TO 110+00.000	LT.	50.0	14.3	715.0			
110+00.000 TO 110+50.000	LT.	50.0	11.8	590.0			
110+50.000 TO 111+00.000	LT.	50.0	9.2	460.0			
111+00.000 TO 111+50.000	LT.	50.0	7.2	360.0			
111+50.000 TO 112+00.000	LT.	50.0	6.1	305.0			
112+00.000 TO 112+50.000	LT.	50.0	5.9	295.0			
112+50.000 TO 113+00.000	LT.	50.0	10.0	500.0			
113+00.000 TO 113+50.000	LT.	50.0	15.0	750.0			
113+50.000 TO 114+00.000	LT.	50.0	13.1	655.0			
114+00.000 TO 114+50.000	LT.	50.0	9.0	450.0			
114+50.000 TO 115+00.000	LT.	50.0	8.3	415.0			
115+00.000 TO 115+26.803	LT.	26.8	5.8	155.5			
108+43.527 TO 108+50.000	RT.	6.5	8.5	55.0			
108+50.000 TO 109+00.000	RT.	50.0	7.6	380.0			
109+00.000 TO 109+50.000	RT.	50.0	8.3	415.0			
109+50.000 TO 110+00.000	RT.	50.0	9.1	455.0			
110+00.000 TO 110+50.000	RT.	50.0	7.7	385.0			
110+50.000 TO 111+00.000	RT.	50.0	4.6	230.0			
111+00.000 TO 111+50.000	RT.	50.0	2.9	145.0			
111+50.000 TO 112+00.000	RT.	50.0	2.4	120.0			
112+00.000 TO 112+50.000	RT.	50.0	3.5	175.0			
112+50.000 TO 113+00.000	RT.	50.0	3.9	195.0			
113+00.000 TO 113+50.000	RT.	50.0	4.5	225.0			
113+50.000 TO 114+00.000	RT.	50.0	8.8	440.0			
114+00.000 TO 114+50.000	RT.	50.0	11.4	570.0			
114+50.000 TO 115+00.000	RT.	50.0	9.9	495.0			
115+00.000 TO 115+26.803	RT.	26.8	5.9	158.1			
9+96.850 TO 10+02.150	LT.	5.3	VARIES	25.0			
10+02.150 TO 13+97.490	LT.	395.3	VARIES	2507.0			
13+97.490 TO 14+01.830	LT.	4.3	VARIES	41.0			
14+01.830 TO 19+96.850	LT.	592.0	VARIES	2572.0			
19+96.850 TO 20+02.150	LT.	5.3	VARIES	25.0			
20+02.150 TO 25+98.650	LT.	596.5	VARIES	1677.0			
25+98.650 TO 26+01.250	LT.	2.6	VARIES	5.0			
9+96.850 TO 10+02.950	RT.	6.1	VARIES	24.0			
10+02.950 TO 11+97.950	RT.	195.0	VARIES	1207.0			
11+97.950 TO 12+02.950	RT.		VARIES				
12+02.950 TO 14+98.050	RT.		VARIES				
14+98.050 TO 15+02.750	RT.		VARIES				
15+02.750 TO 19+98.250	RT.		VARIES				
19+98.250 TO 20+02.350	RT.		VARIES				
20+02.350 TO 25+98.750	RT.		VARIES				
25+98.750 TO 26+01.350	RT.		VARIES				
DRAINAGE STRUCTURES							
TOTAL							

SUMMARY OF SILT FENCE

STATION	SIDE	LENGTH MI	
		P	F
108+65.000 TO 110+75.000	RT.	210.0	
111+00.000 TO 115+35.000	RT.	435.0	
111+50.000 TO 115+35.000	LT.	385.0	
9+75.000	RT.	10.0	
9+75.000	LT.	10.0	
TOTAL		1050.0	

SUMMARY OF FENCING TYPE B

LOCATION STA. TO STA.	SIDE	FENCE TYPE B		CORNER POST ASSEMBLY		END POST ASSEMBLY		PULL POST ASSEMBLY		REMARKS	FIELD BOOK REFERENCE
		P	F	P	F	P	F	P	F		
112+50.00 TO 112+50.00	LT.	5.6	5.6	1	1	1	1	1	1		
112+50.00 TO 114+11.391	LT.	161.4	161.4	2	2	2	2	2	2		
TOTAL		167.0	167.0	3	3	3	3	3	3		

SUMMARY OF EROSION CONTROL MAT

LOCATION STA. TO STA.	SIDE	EROSION CONTROL MAT				REMARKS	FIELD BOOK REFERENCE
		L	W	P	F		
108+43.527 TO 108+50.000	LT.	6.5	5.5	35.6			
108+50.000 TO 109+00.000	LT.	50.0	11.2	560.0			
109+00.000 TO 109+50.000	LT.	50.0	16.1	805.0			
109+50.000 TO 110+00.000	LT.	50.0	14.0	700.0			
110+00.000 TO 110+50.000	LT.	50.0	11.5	575.0			
110+50.000 TO 111+00.000	LT.	50.0	8.9	445.0			
111+00.000 TO 111+50.000	LT.	50.0	6.9	345.0			
111+50.000 TO 112+00.000	LT.	50.0	5.7	285.0			
112+00.000 TO 112+50.000	LT.	50.0	5.5	275.0			
112+50.000 TO 113+00.000	LT.	50.0	2.3	115.0			
108+50.000 TO 109+00.000	RT.	50.0	7.3	365.0			
109+00.000 TO 109+50.000	RT.	50.0	8.0	400.0			
109+50.000 TO 110+00.000	RT.	50.0	8.0	400.0			
110+00.000 TO 110+50.000	RT.	50.0	6.6	330.0			
110+50.000 TO 111+00.000	RT.	50.0	4.8	240.0			
111+00.000 TO 111+50.000	RT.	50.0	3.4	170.0			
111+50.000 TO 112+00.000	RT.	50.0	1.3	65.0			
TOTAL				6111			

SUMMARY OF EARTHWORK

DESCRIPTION	P		F
	M3	M3	
PROJECT FILL	59	227	
FILL ADJUSTMENT (35%)(59 227 X .35)		20	730
TOTAL PROJECT FILL		79	957
TRUCK ADJUSTMENT (25%)(79 957 X .25)		19	989
TOTAL PROJECT BORROW EXCAV.	99	946	98,897
TOTAL PROJECT REGULAR EXCAVATION	3	663	3,663.0
TOTAL PROJECT SUBSOIL EXCAVATION	3	432	4,890

NOTE:

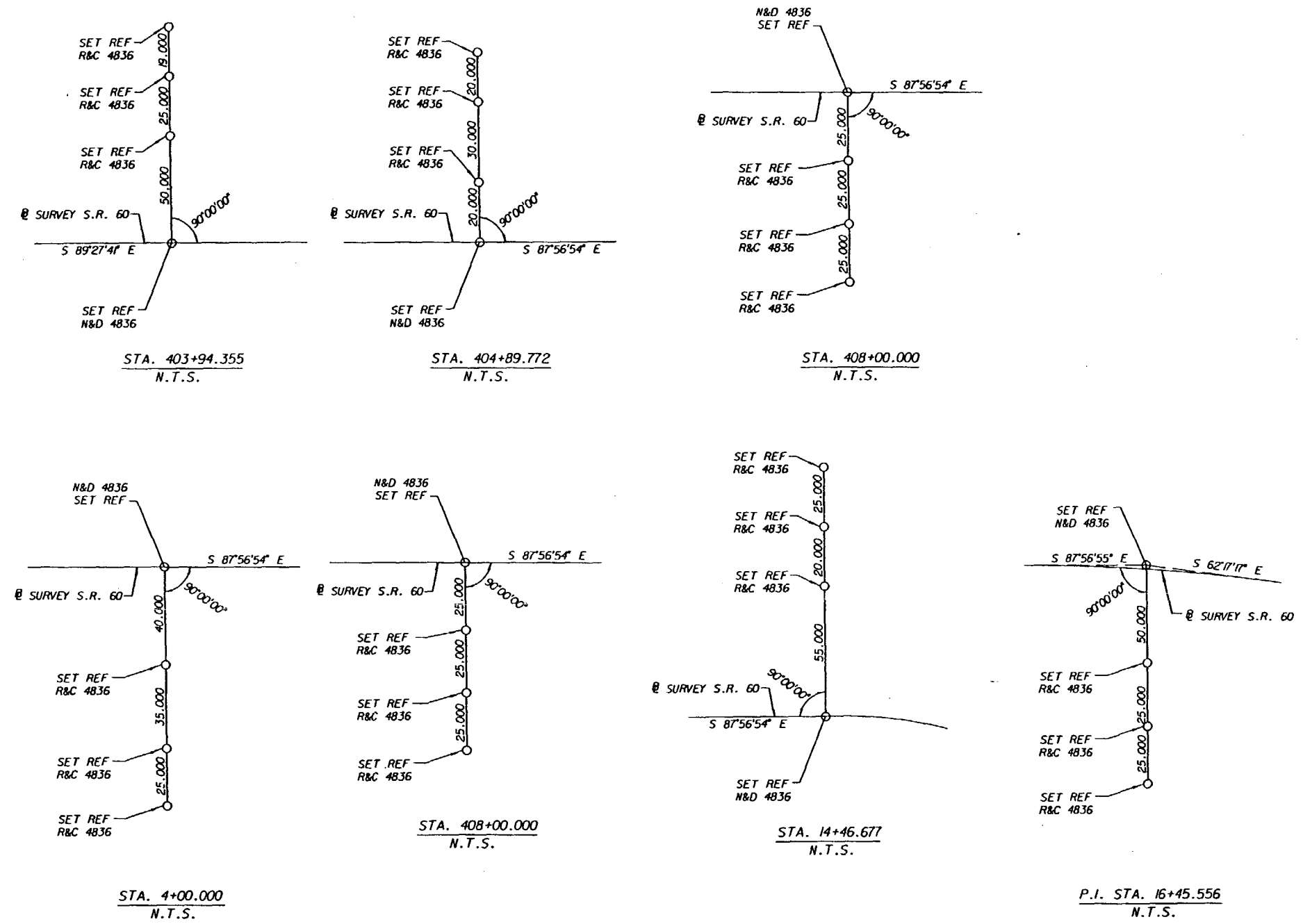
- EARTHWORK HAS BEEN CALCULATED USING THE LIMEROCK BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.
- ESTIMATED 44.8 M3 OF UNCLASSIFIED MATERIAL TO BE DISPLACED BY THE STORM SEWER (OR DRAINAGE STRUCTURE) SYSTEM NOT INCLUDED IN QUANTITIES SHOWN ABOVE.

SUMMARY OF HAYBALES

STATION	SIDE	NUMBER EA	
		P	F
106+21.680	LT.	64.0	
108+65.570	LT.	64.0	
109+47.902	LT.	64.0	
110+00.000	RT.	64.0	
111+00.000	RT.	64.0	
110+39.342	LT.	64.0	
110+70.165	RT.	64.0	
111+00.000	RT.	64.0	
111+00.000	RT.	64.0	
111+61.145	LT.	64.0	
111+61.145	RT.	64.0	
112+25.000	LT.	64.0	
112+67.615	LT.	64.0	
TOTAL		832.0	

QUANTITY	STR. NO.	INDEX NO.	STATION	SIDE	DESCRIPTION	BARRELS	SIZE (IN)	LENGTH (M)	GUTTER DRAIN CA PIPE				MANHOLE		GUTTER INLET		DBI			SOD	MES CROSS DRAIN				RIPRAP	REMARKS											
									450	600	750		P7T		S		C-J	C	J			600	750					MT									
P																																					
F																																					
P	S-1	220	103+19.125	LT	INLET, PIPE	1	600	1.4																197668-1-50-01													
F			103+19.125	LT	Inlet, Pipe	1																															
P	S-1A	234	102+50.000	RT	INLET, PIPE	1	450	68.0																197668-1-50-01													
F			102+50.000	RT	Inlet, Pipe	1																															
P	S-1B	200, 201	103+19.125	RT	MH, PIPE	1	600	9.8																197668-1-50-01													
F																																					
P	S-2	220	103+41.815	RT	INLET, PIPE	1	450	21.6																197668-1-50-01													
F			103+41.815	RT	Inlet, Pipe	1																															
P	S-3	220	104+36.335	LT	INLET, PIPE	1	600	115.9																197668-1-50-01													
F			104+36.335	LT	Inlet, Pipe	1																															
P	S-4	220	104+36.335	RT	INLET, PIPE	1	450	12.4																197668-1-50-01													
F			104+36.335	RT	Inlet, Pipe	1																															
P	S-5	220	105+06.000	RT	INLET, PIPE	1	450	68.4																197668-1-50-01													
F			105+06.000	RT	Inlet, Pipe	1																															
P	S-6	220	105+45.000	LT	INLET, PIPE	1	600	107.4																197668-1-50-01													
F			105+45.000	LT	Inlet, Pipe	1																															
P	S-7	220	106+21.680	LT	INLET, PIPE	1	450	75.5																197668-1-50-01 19m OF PIPE													
F			106+21.680	LT	Inlet, Pipe	1																		239718-1-50-01 INLET & 56.5m OF PIPE													
P	S-8	220	108+65.570	LT	INLET, PIPE	1	450	81.1																239718-1-50-01													
F			108+65.570	LT	Inlet, Pipe	1																															
P	S-9	220	109+47.902	LT	INLET, PIPE	1	450	90.2																239718-1-50-01													
F			109+47.902	LT	Inlet, Pipe	1																															
P	S-10	220	110+00.000	RT	INLET, PIPE	1	450	7.5																239718-1-50-01													
F			110+00.000	RT	Inlet, Pipe	1																															
P	S-11	220	110+39.342	LT	INLET, PIPE	1	600	120.6																239718-1-50-01													
F			110+39.342	LT	Inlet, Pipe	1																															
P	S-12	220	110+70.165	RT	INLET, PIPE	1	450	28.7																239718-1-50-01													
F			110+70.165	RT	Inlet, Pipe	1																															
P	S-13	220	111+61.145	LT	INLET, PIPE	1	750	4.8																239718-1-50-01													
F			111+61.145	LT	Inlet, Pipe	1																															
P	S-14	220	111+61.145	RT	INLET, PIPE	1	600	10.8																239718-1-50-01													
F																																					
P	S-15	220	112+67.615	LT	INLET, PIPE	1	450	41.4																239718-1-50-01													
F			112+67.615	LT	Inlet, Pipe	1																															
P	S-15A	220	112+25.000	LT	INLET, PIPE	1	450	62.6																239718-1-50-01													
F			112+25.000	LT	Inlet, Pipe	1																															
P	S-16	232	103+50.000	RT	INLET, PIPE	1	450	6.9																197668-1-50-01													
F			103+50.000	RT	Inlet, Pipe	1																															
P	S-17	220	103+75.630	RT	INLET, PIPE	1	450	24.4																197668-1-50-01													
F			103+75.630	RT	Inlet, Pipe	1																															
P	S-18	232	104+50.000	RT	INLET, PIPE	1	450	13.8																197668-1-50-01													
F			104+50.000	RT	Inlet, Pipe	1																															
P	S-19	200, 232	110+00.000	RT	INLET, PIPE	1	600	99.4																197668-1-50-01 239718-1-50-01													
F			110+00.000	RT	Inlet, Pipe	1																															
P	S-20	200, 232	111+00.000	RT	INLET, PIPE	1	600	5.1																239718-1-50-01													
F																																					
P	S-21	200, 201	111+00.000	RT	MH, PIPE	1	600	60.0																239718-1-50-01													
F			111+00.000	RT	MH, Pipe	1																															
P	S-22	272	103+19.125	LT	MES	1	600																	239718-1-50-01 197668-1-50-01													
F			103+19.125	LT	MES	1																		14.50													
P	S-23	272	111+61.145	LT	MES	1	750																	14.8													
F			111+61.145	LT	MES	1																		14.80													
TOTALS									P PLAN QUANTITY				602.5530.4		4.8		2		17		2		2		1		64		1		1		29.3		239718-1-50-01 (FINAL)		
									F FINAL QUANTITY				501.753504.85				2.0		17.4		2.0		2.0		2.0		1.0		1.0		29.30		QUANTITY - 197668-1-50-01				
REVISIONS									PREPARED BY: (287.5)									STATE OF FLORIDA									SUMMARY OF DRAINAGE STRUCTURES									SHEET NO.	
DATE BY DESCRIPTION									DATE BY DESCRIPTION									DEPARTMENT OF TRANSPORTATION																		9	
									WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406									ROAD NO. COUNTY FINANCIAL PROJECT ID																			
																		SR 60 OSCEOLA POLK 239718-1-50-01 197668-1-50-01																			

1. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR WITHOUT DELAY BY TELEPHONE.
3. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
4. NO MORE THAN 2 WEEKS PRIOR TO CONSTRUCTION, DEPARTMENT BIOLOGISTS WILL CONDUCT A SURVEY FOR NESTS OF THE AUDUBON'S CRESTED CARACARA WITHIN 274 METERS OF THE CONSTRUCTION SITE, FOR EVERGLADES SNAIL KITE NESTS WITHIN 457 METERS, AND ANY MIGRATORY SPECIES NESTING WITHIN THE CONSTRUCTION LIMITS. IF CARACARA OR SNAIL KITE NESTS ARE FOUND, NO CONSTRUCTION MAY BEGIN UNTIL THE YOUNG BIRDS HAVE SUCCESSFULLY DEPARTED THE NESTS. IF MIGRATORY BIRD NESTS ARE FOUND, NO CONSTRUCTION MAY BEGIN UNTIL CLEARANCE IS RECEIVED FROM THE U.S. FISH AND WILDLIFE SERVICE.
5. ALL EXISTING (PRE-CONSTRUCTION) PAVEMENT WITHIN THE PROJECT LIMITS IS TO BE REMOVED UPON COMPLETION OF THE PROJECT.
6. ALL PIPES JOINTS, IN ADDITION TO THOSE REQUIRED BY SPECIFICATION 430, SHALL BE WRAPPED IN ACCORDANCE WITH INDEX 280 WITH FILTER FABRIC MEETING THE REQUIREMENTS OF INDEX 199, TYPE D-3 WITH A MAXIMUM A.D.S. OF 0.22MM AND A MINIMUM PERMITTIVITY OF 0.2/SEC.



BENCH MARKS

BENCH MARK 1
 MONUMENT I.D. KR 1012
 BRASS DISK IN LOCK WALK.
 LOCATED ON WEST LOCK WALK OF S-65, SOUTH OF SR 60.
 4.267' SOUTHWEST OF MACHINE HOUSE 3.
 ELEVATION 19.205 (63.010 FT.)

BENCH MARK 2
 MONUMENT ID KR 1405
 BRASS DISK IN THE TOP OF A 0.1 PVC PIPE
 LOCATED 31.029' EAST OF EAST END OF BRIDGE. 6.705' SOUTH
 OF SR 60 CENTERLINE.
 ELEVATION 17.386 (57.040 FT.)

Handwritten signature and date: 2/26/01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners
 300 PRIMERA BLVD., SUITE 200, LAKE MARY, FL 32746
 (407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

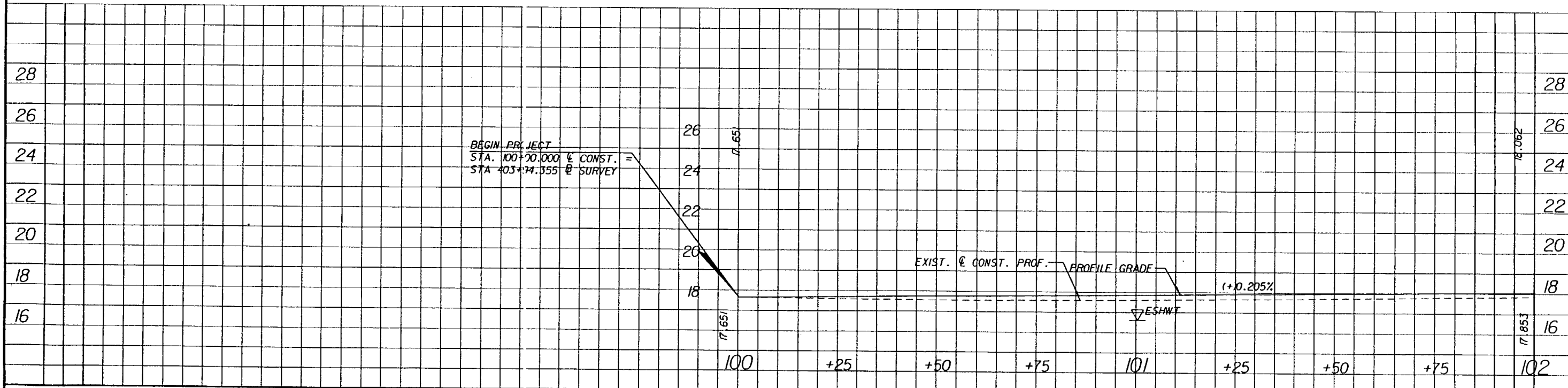
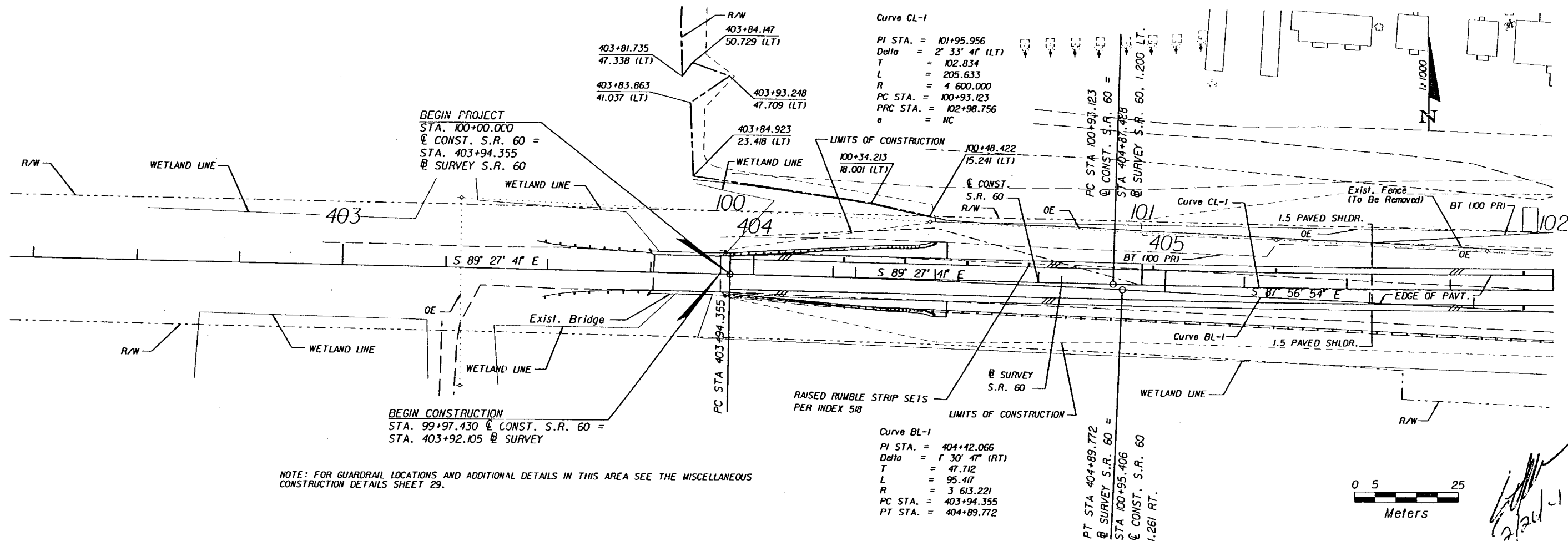
**GENERAL NOTES AND
REFERENCE TIES**

SHEET NO.
10

20 FEB 2001 17:14:12
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 20 FEB 2001

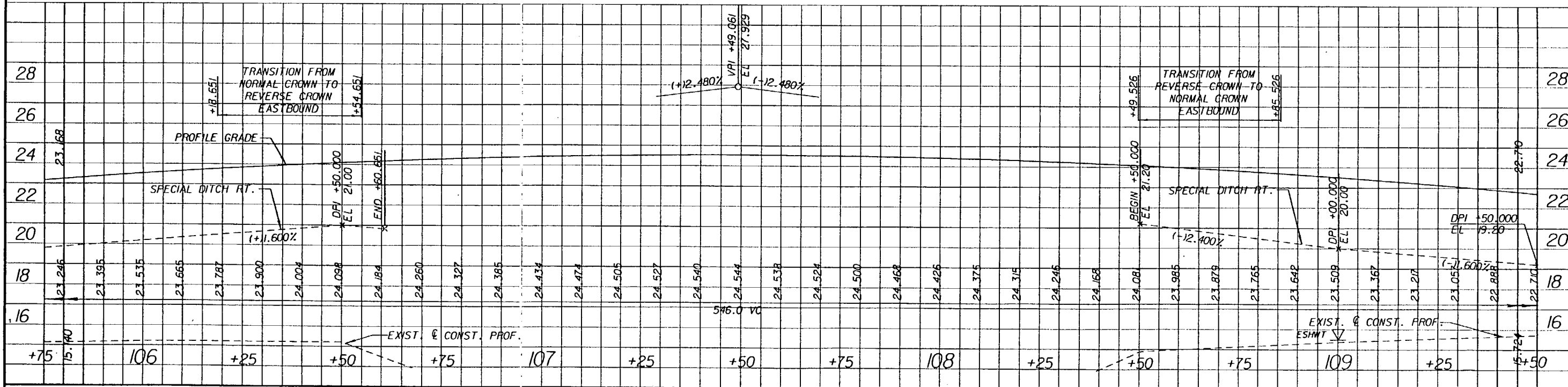
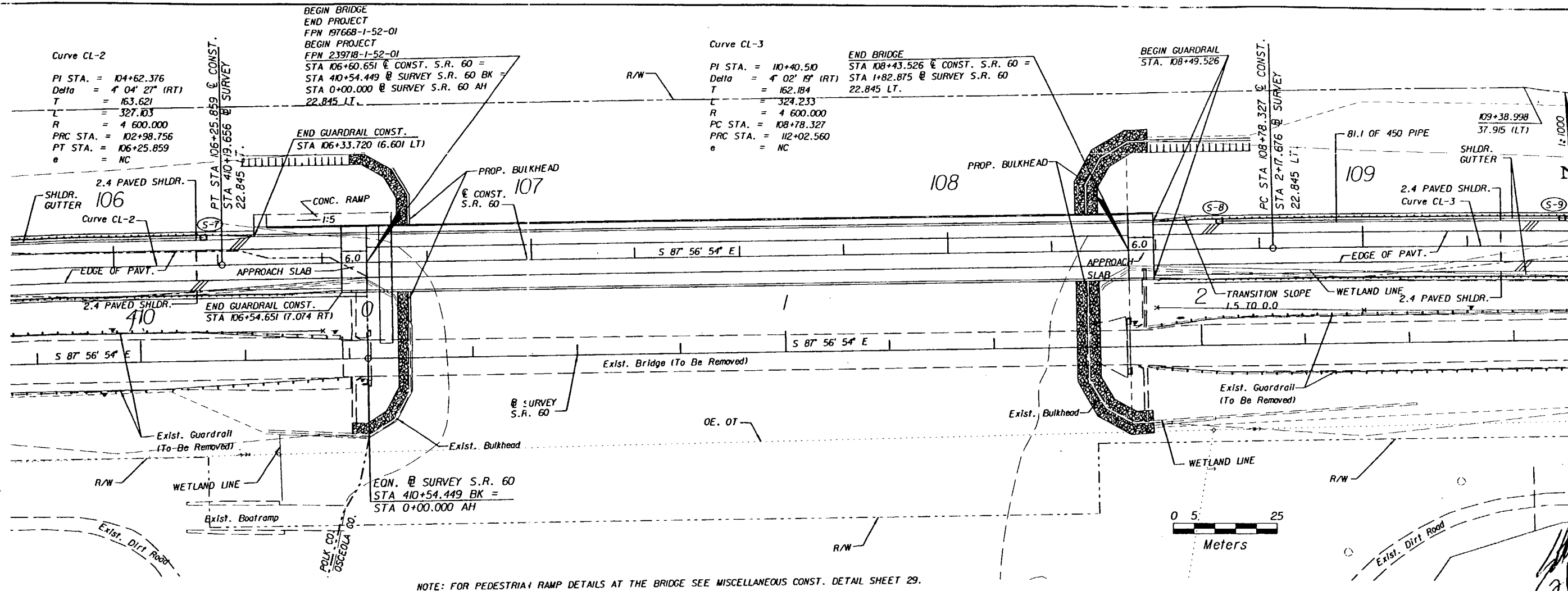
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REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND PROFILE	SHEET NO. 11
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJ. ID.		
						S.R. 60	OSCEOLA	239718-1-52-01		
						S.R. 60	POLK	197668-1-52-01		

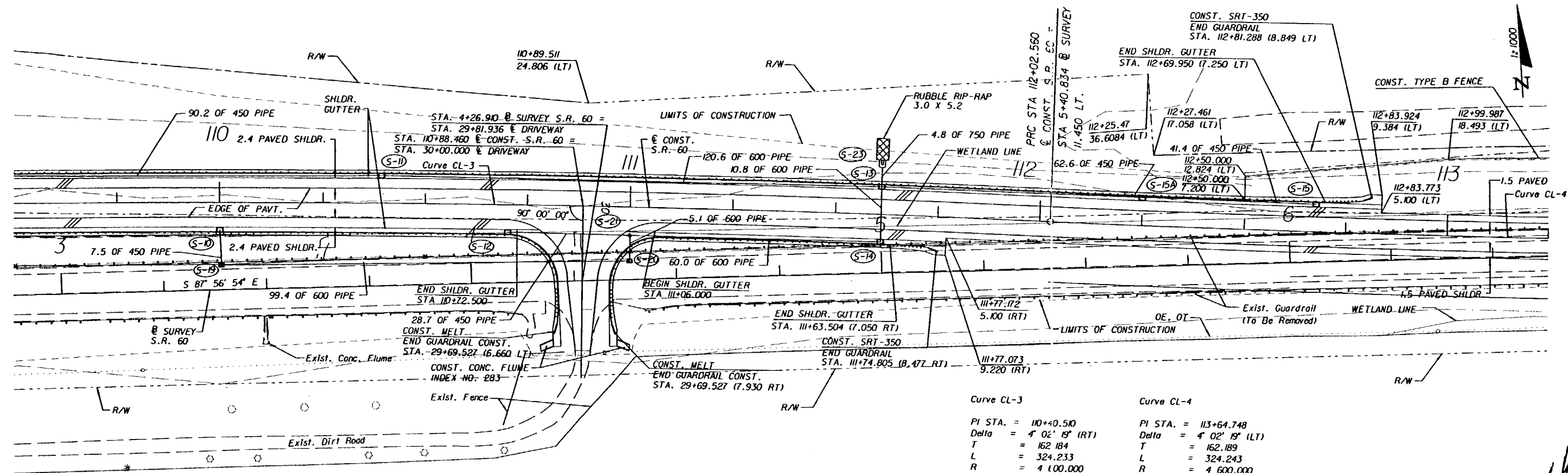
TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E8685

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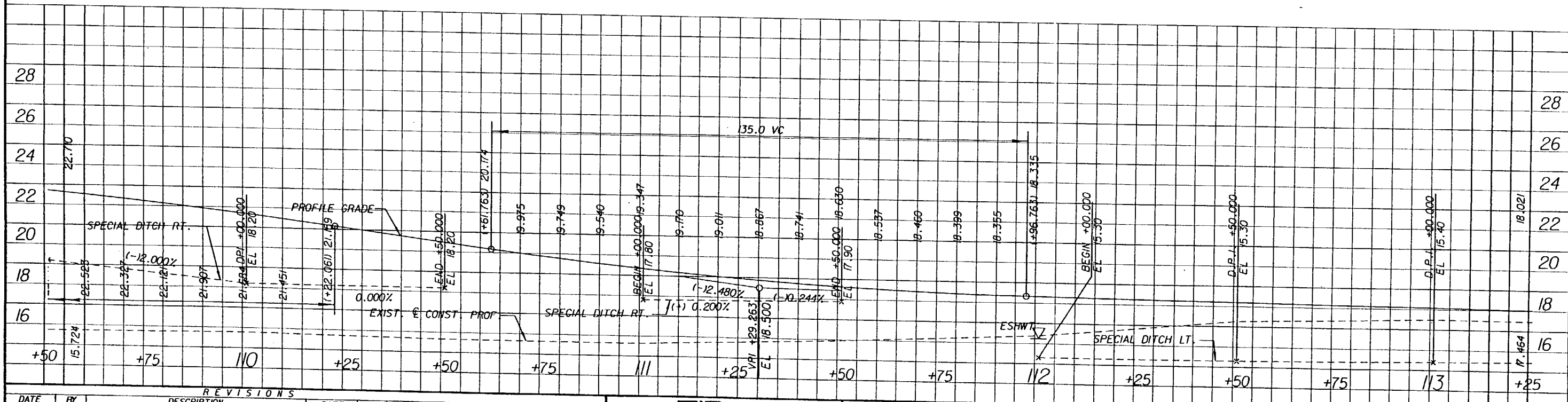


DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	FINANCIAL PROJ. ID.	SHEET NO.
2/13/03	TEI	TRANSITION EAST BOUND STATION CHANGE 105+94.651	2/13/03	TEI	TRANSITION EASTBOUND STATION CHANGE 109+09.526	ROAD NO.	106	OSCEOLA	239718-1-52-01	13
						S.R. 60	108	POLK	197668-1-52-01	

n:\96157.00\plan\planr04.dgn 20 FEB 2001 17:38:27 T DeJesus/Highway



NOTE: FOR DRIVEWAY DETAILS SEE INTERSECTION DETAIL SHEET 21.



REVISIONS				REVISIONS			
DATE	BY	DESCRIPTION		DATE	BY	DESCRIPTION	

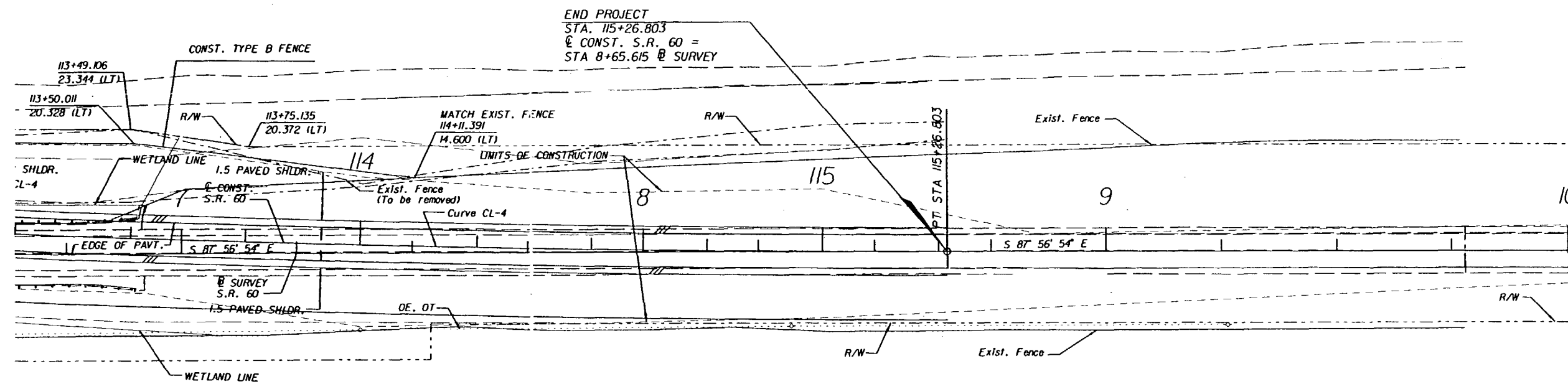
TEI
Engineers & Planners
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E66185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	K7668-1-52-01

PLAN AND PROFILE

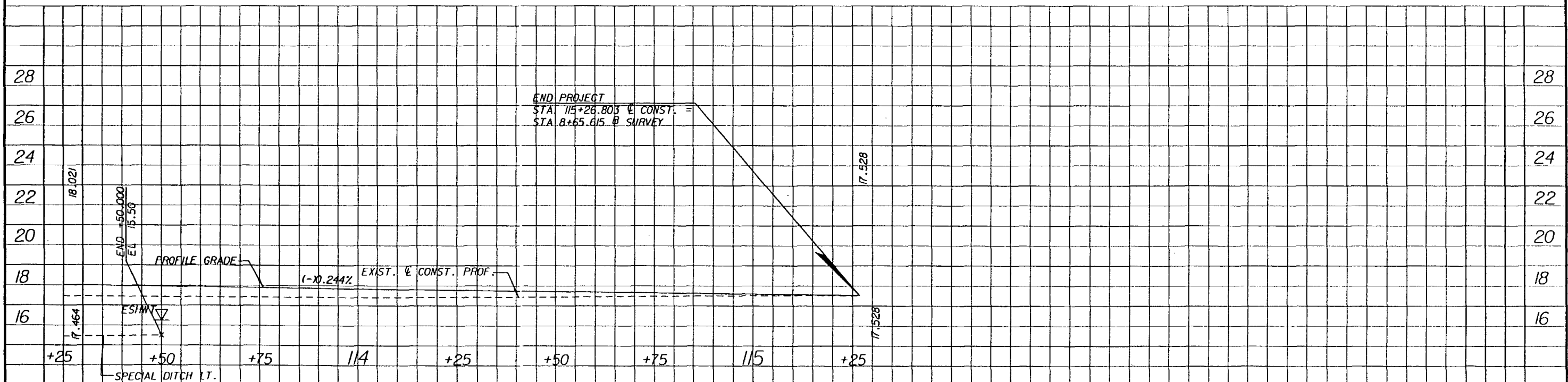
SHEET
NO.
14

n:\96157.00\plan\planr04.dgn 20 FEB 2001



Curve Cl-4

PI STA. = 113+64.748
Delta = 4° 02' 19" (LT)
T = 162.189
L = 324.243
R = 4 600.000
PC STA. = 112+02.560
PT STA. = 115+26.803
e = NC



<i>R E V I S I O N S</i>					
<i>DATE</i>	<i>BY</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>BY</i>	<i>DESCRIPTION</i>



TEI
Engineers & Planners

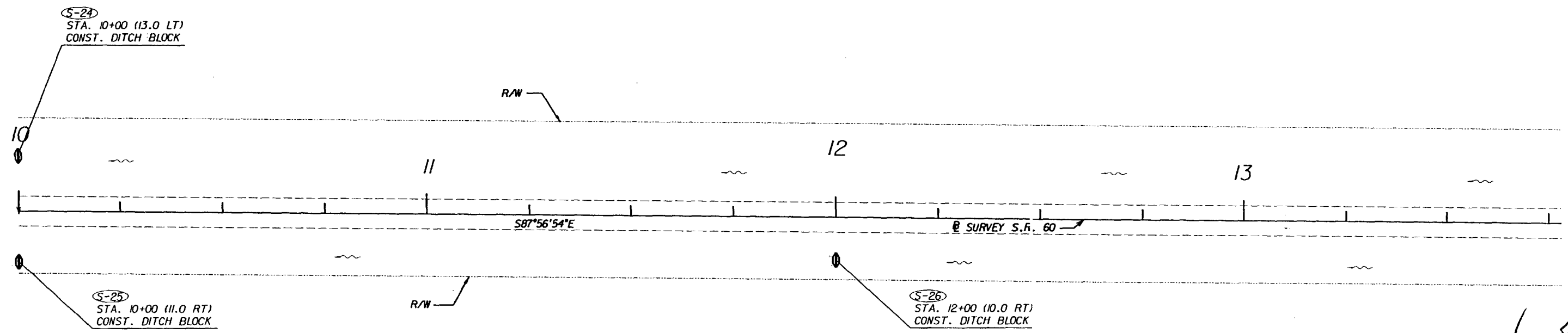
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01


PLAN AND PROFILE

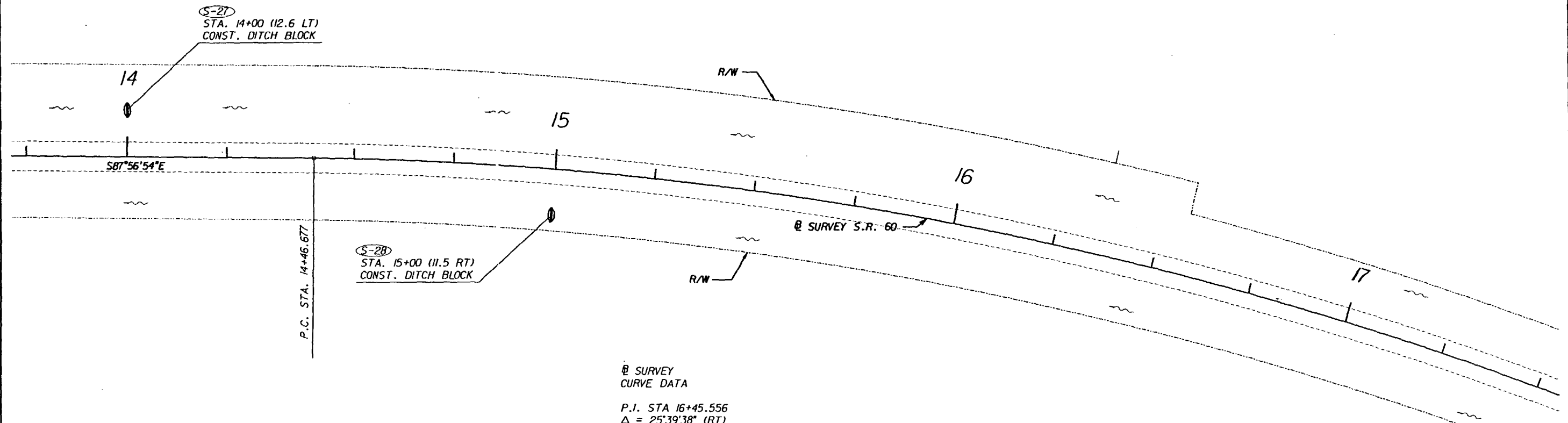
SHEET
NO.
15

9 JAN 2002 11:00



Michael L. Thomas
2/23/01


REVISIONS						PREPARED BY:  WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN - DITCH BLOCKS	SHEET NO. 16
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 60	OSCEOLA	239718-1-52-01		

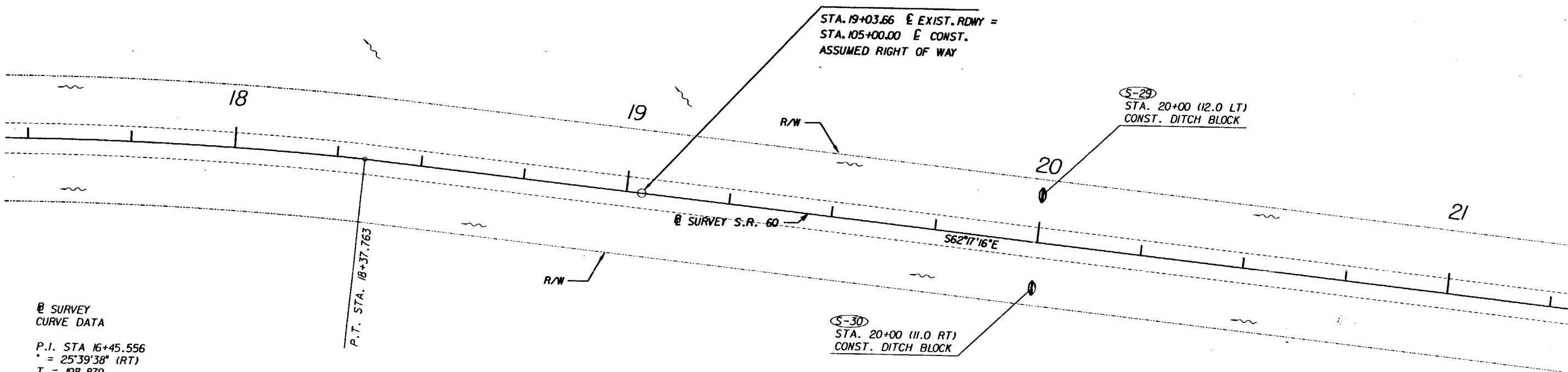


② SURVEY
CURVE DATA

P.I. STA 16+45.556
Δ = 25°39'38" (RT)
T = 198.879
L = 391.086
R = 873.232
P.C. STA. 14+46.677
P.T. STA. 18+37.763


Richard J. Smith
2/23/01

REVISIONS						PREPARED BY:  WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 LICENSE NO. 570405950	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN - DITCH BLOCKS	SHEET NO. 17
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 60	OSCEOLA	239718-1-52-01		

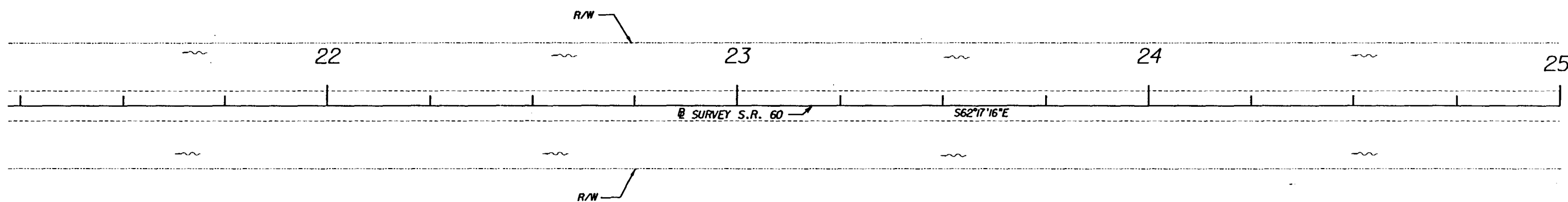


@ SURVEY
CURVE DATA
P.I. STA 16+45.556
Δ = 25°39'38" (RT)
T = 198.879
L = 391.086
R = 873.232
P.C. STA. 14+46.677
P.T. STA. 18+37.763


Michael J. Stum
2/23/01

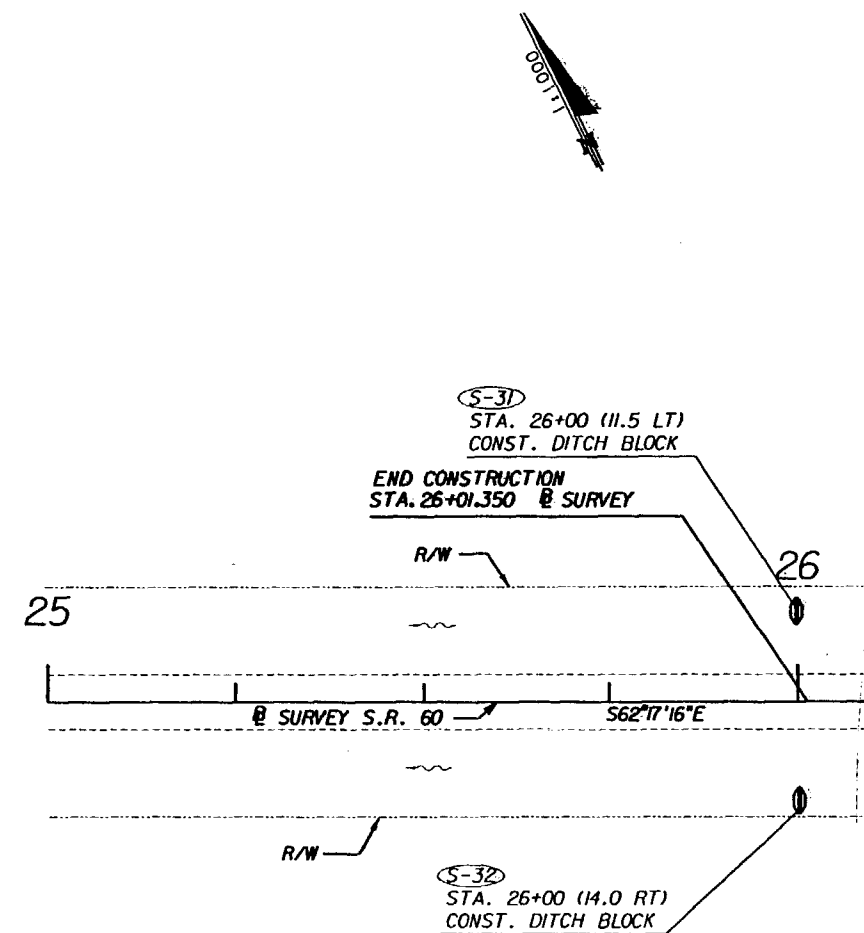
REVISIONS						PREPARED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN - DITCH BLOCKS	SHEET NO. 18
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						 WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 LICENSE NO. 570405950	SR 60	OSCEOLA	239718-1-52-01		

1326230/1326232/PLANS03 DGN 01/31/01 11:46:11 AM



Richard L. Stevens
2/23/01

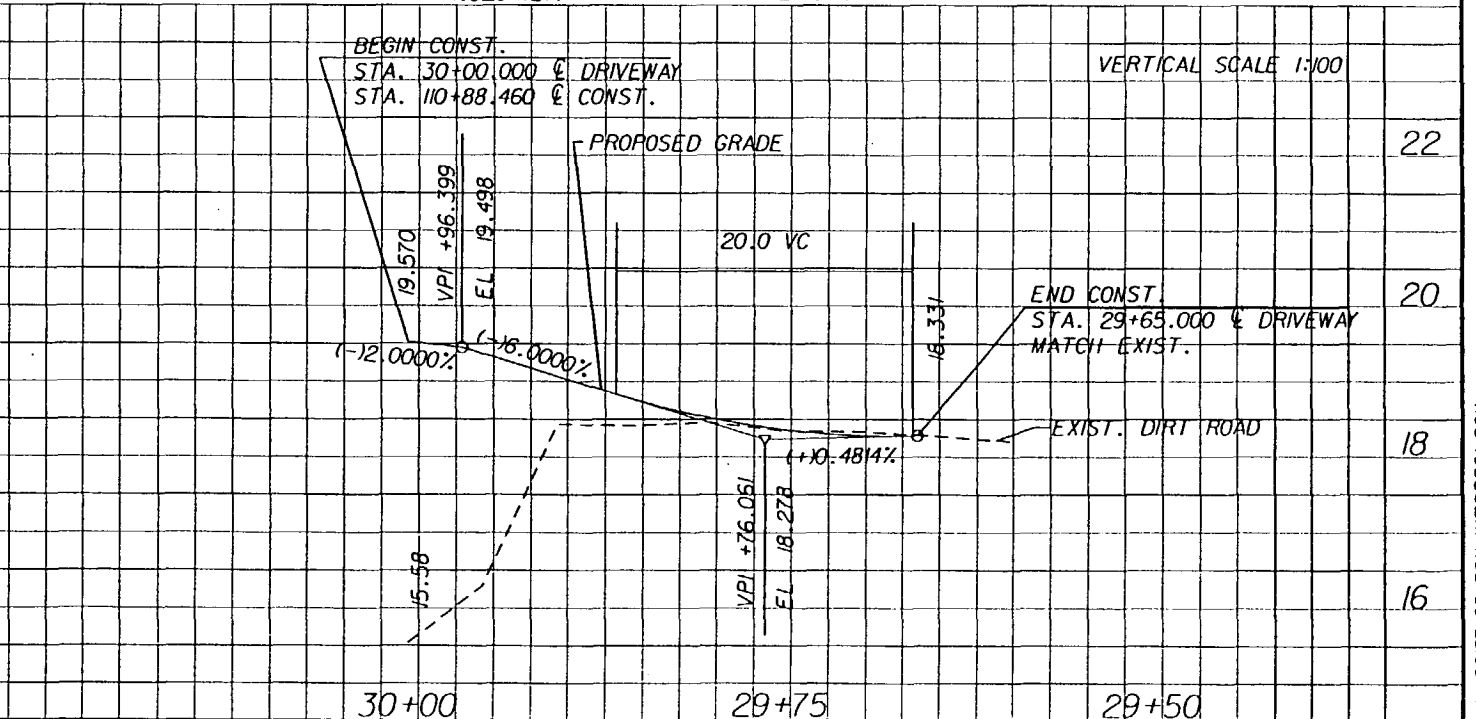
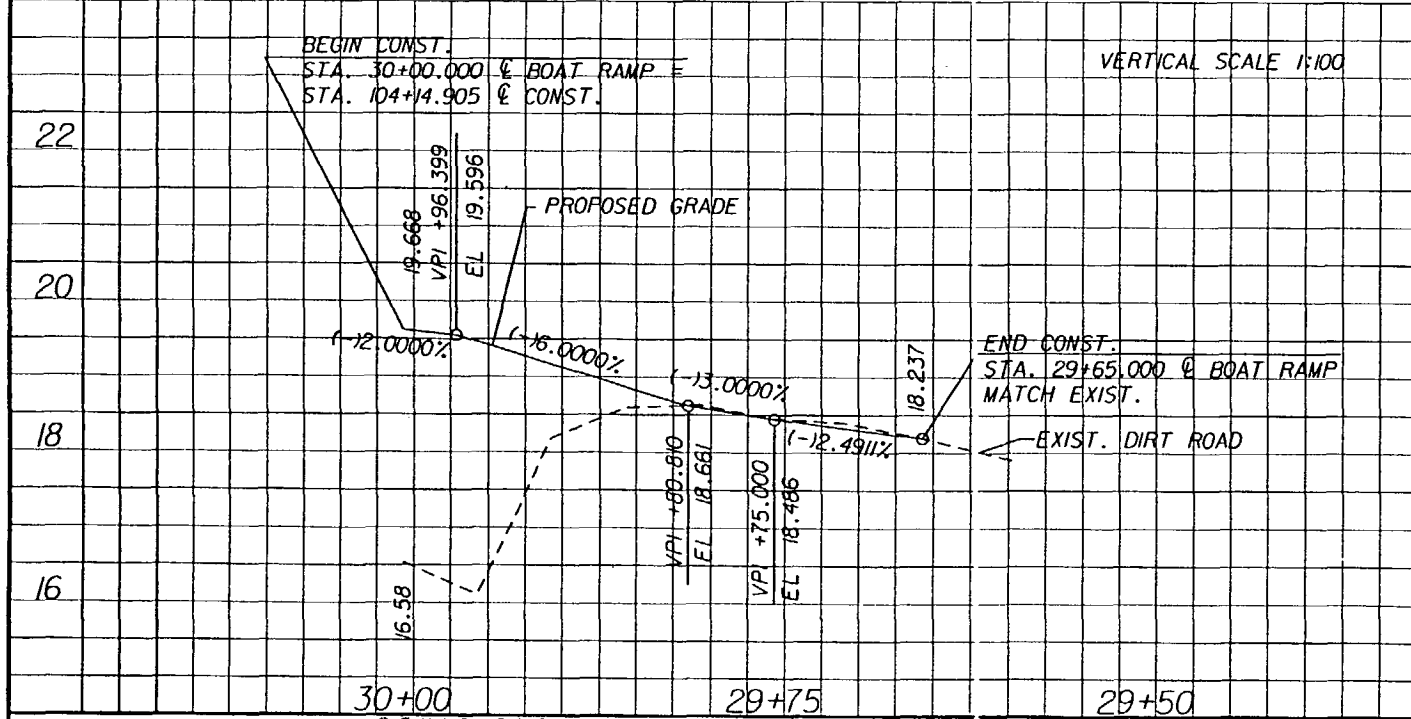
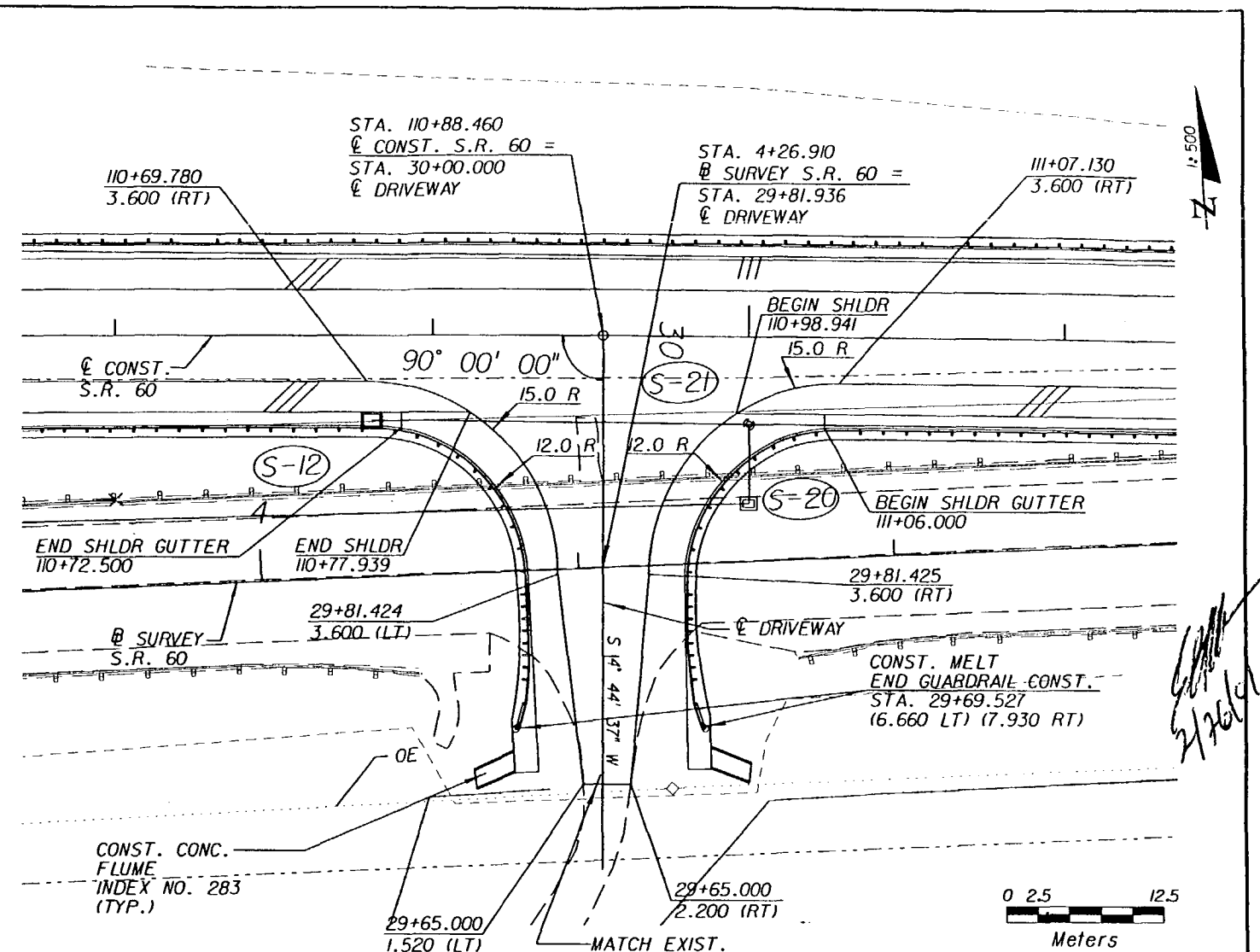
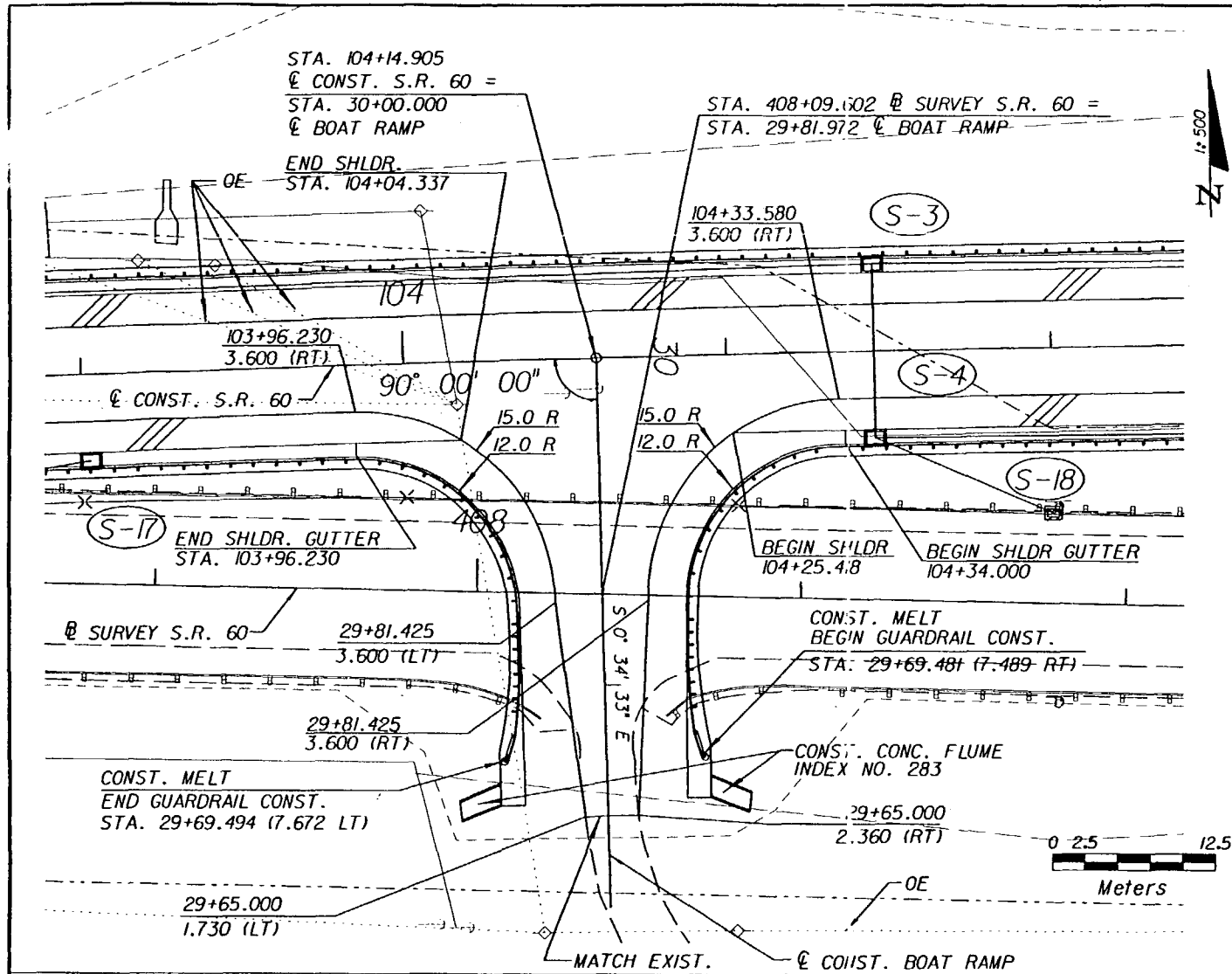
REVISIONS						PREPARED BY:  WILBUR SMITH ASSOCIATES 3535 LANTON RD., STE. 100 ORLANDO, FL. 32803 LICENSE NO. 570405950	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN - DITCH BLOCKS	SHEET NO. 19
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 60	OSCEOLA	239718-1-52-01			



Richard L. Starns
2/23/01

REVISIONS						PREPARED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						WILBUR SMITH ASSOCIATES 3535 LAWTON RD., STE. 100 ORLANDO, FL. 32803 LICENSE NO. 570405950	SR 60	OSCEOLA	239718-1-52-01	20

H:\96157.00\00\GNV\INTDR001.DGN 21 FEB 2001 09:35:11 T. DeJesus/Highway



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners

300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E06085

ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

INTERSECTION DETAIL		SHEET NO.
		21

H:\96157.00\00\GNV\INTDR001.DGN 21 FEB 2001

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← E CONSTRUCTION

FROM (S-16)

CONST. 6.9 m OF 450 PIPE

(S-2)

STA. 103+41.815
CONST INLET TYPE S
INDEX NO. 220
FL 16.654 (BK)
FL 16.654 (AH)

STA. 103+41.815

CONST. 450 PIPE

TO (S-18)

CONST. 115.9m OF 600 PIPE

FROM (S-3)

CONST. 9.8 m OF 600 PIPE

FROM (S-2)

CONST. 21.6 m OF 450 PIPE

CONST. 1.4m OF 600 PIPE

RIPRAP

(S-22)

STA 103+19.125
CONST MES
INDEX NO. 272
FL 16.477

(S-1)

STA 103+19.125
CONST TYPE S INLET
INDEX NO. 220
FL 16.514 (RT)
FL 16.487 (LT)
FL 16.487 (AH)

FROM (S-1A) FL 16.551 (AH)
TOP 18.227

CONST. 68.0 m OF 450 PIPE

STA. 103+19.125

CONST. 450 PIPE

TO (S-18)

E SURVEY

(S-1A)


STA 102+50.000 (7.500 RT)
CONST TYPE J DBI
INDEX NO. 234
FL 16.828
TOP 17.800

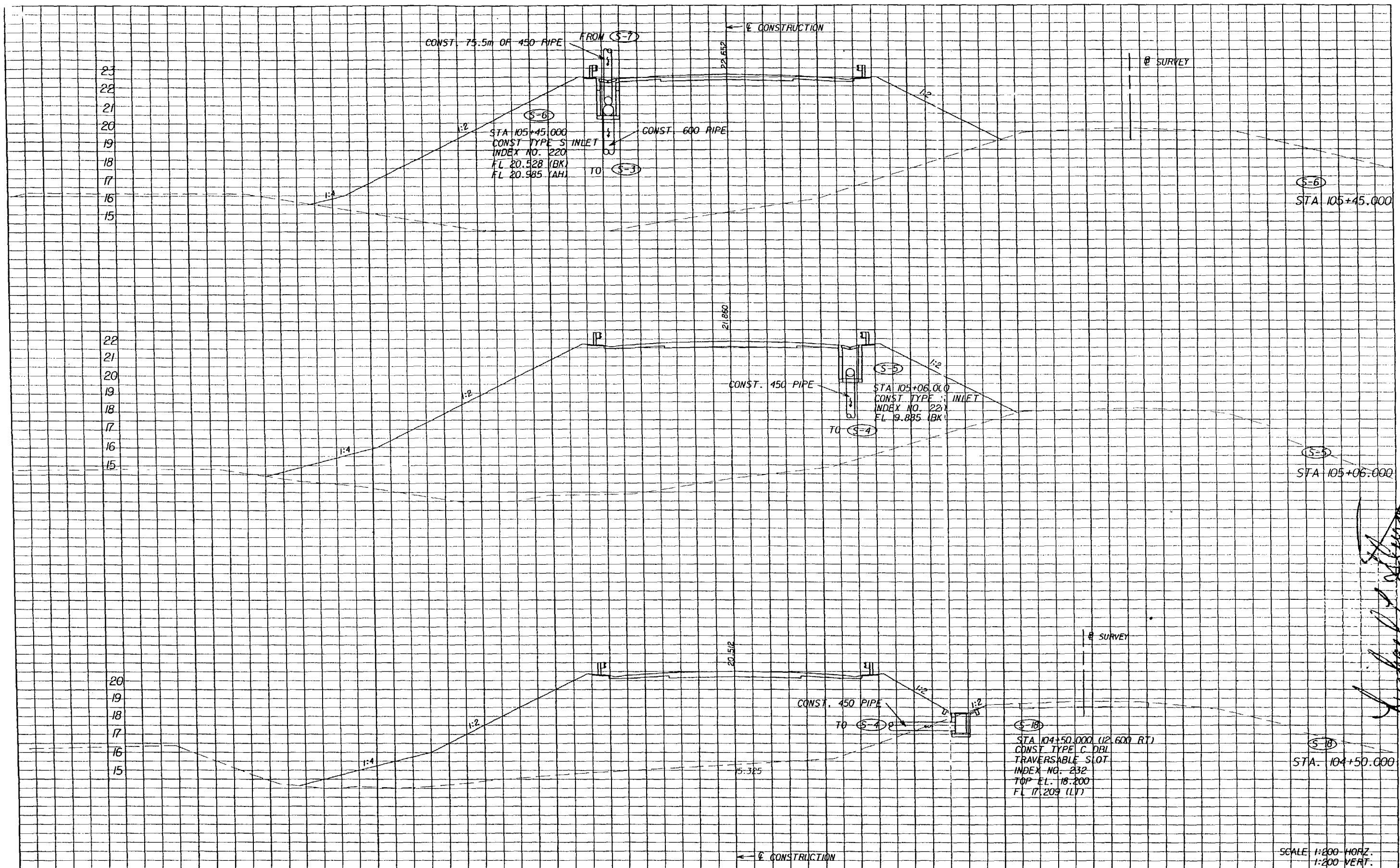
STA. 102+50.000

← E CONSTRUCTION

SCALE 1:200 HORIZ
1:200 VERT.

Handwritten signature and date
2/12/01

REVISIONS						PREPARED BY:  WILBUR SMITH ASSOCIATES 3535 LAWTON RD., STE. 100 ORLANDO, FL. 32803 CERTIFICATE OF AUTHORIZATION NO. 406	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO. 22
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 60	POLK	197568-1-52-01		



Michael J. Stuenkel
2/23/01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:

 WILBUR SMITH ASSOCIATES
 3535 LANTON RD., STE. 100
 ORLANDO, FL. 32803
 CERTIFICATE OF AUTHORIZATION NO. 406

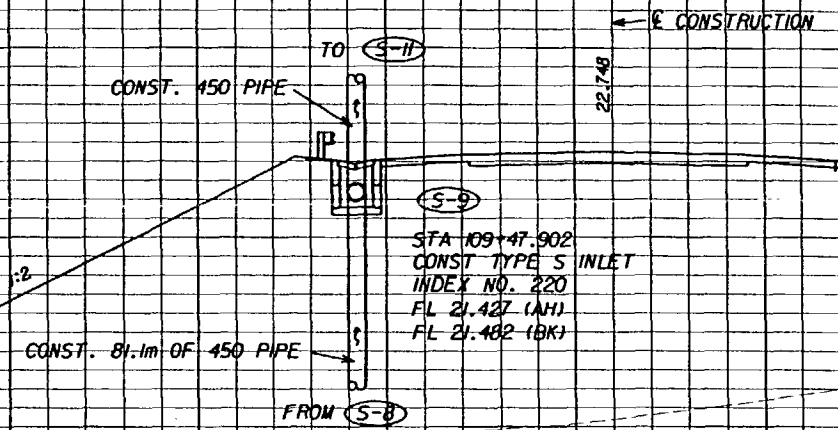
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	POLK	197668-1-52-01

DRAINAGE STRUCTURES		SHEET NO.
		24

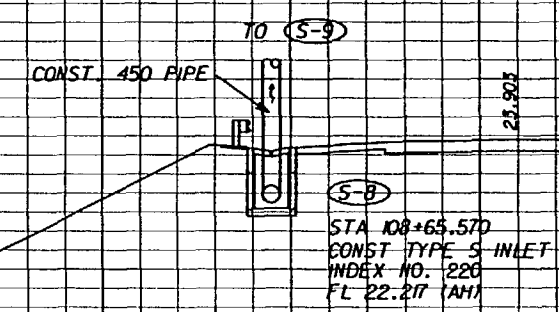
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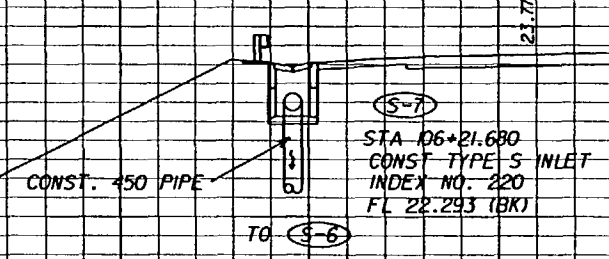
24
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STA 109+47.902



STA 108+65.570



STA 106+21.680

SCALE 1"=200' HORZ.
1"=200' VERT.

Handwritten signature and date: 2/23/01

REVISIONS						PREPARED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO. 25
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 60	POLK	197668-1-52-01		



WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

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TO (S-21)
CONST. 450 PIPE
1:2
1:4
18.971
S-12
STA 110+70.165
CONST. TYPE S INLET
INDEX NO. 220
FL 18.500 (AH)

(S-12)
STA 110+70.165

TO (S-13)
CONST. 600 PIPE
1:2
1:4
20.730
S-11
STA 110+39.342
CONST. TYPE S INLET
INDEX NO. 220
FL 18.980 (AH)
FL 19.154 (BK)
CONST. 90.2m OF 450 PIPE
FROM (S-9)

(S-11)
STA 110+39.342


TO (S-20)
CONST. 600 PIPE
1:2
1:4
21.684
S-10
STA 110+00.000
CONST. TYPE S INLET
INDEX NO. 220
FL 20.178 (RT)
CONST. 7.5m OF 450 PIPE
15.771
S-19
STA 110+00.000 (14.630 RT)
CONST. TYPE C DBI WITH J BOTTOM
TRAVERSABLE SLOT
INDEX NO. 200
TOP EL 18.199
FL 16.672 (AH)
FL 16.709 (LT)

(S-10)
(S-19)
STA 110+00.000

SCALE 1:200 HORZ.
1:200 VERT.

Handwritten signature and date
2/23/01

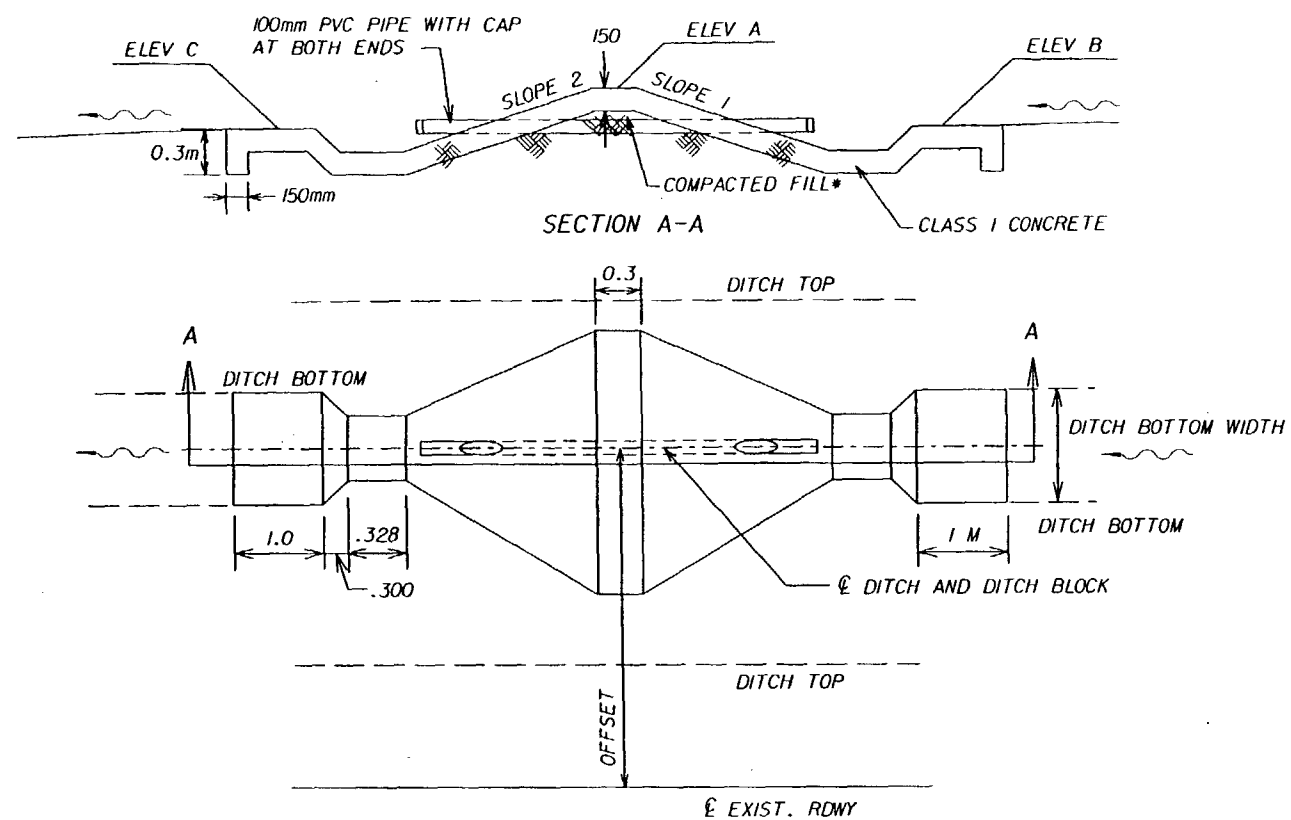
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PREPARED BY:

WILBUR SMITH ASSOCIATES
3535 LANTON RD., STE. 100
ORLANDO, FL 32803
CERTIFICATE OF AUTHORIZATION NO. 406

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	POLK	197668-1-52-01

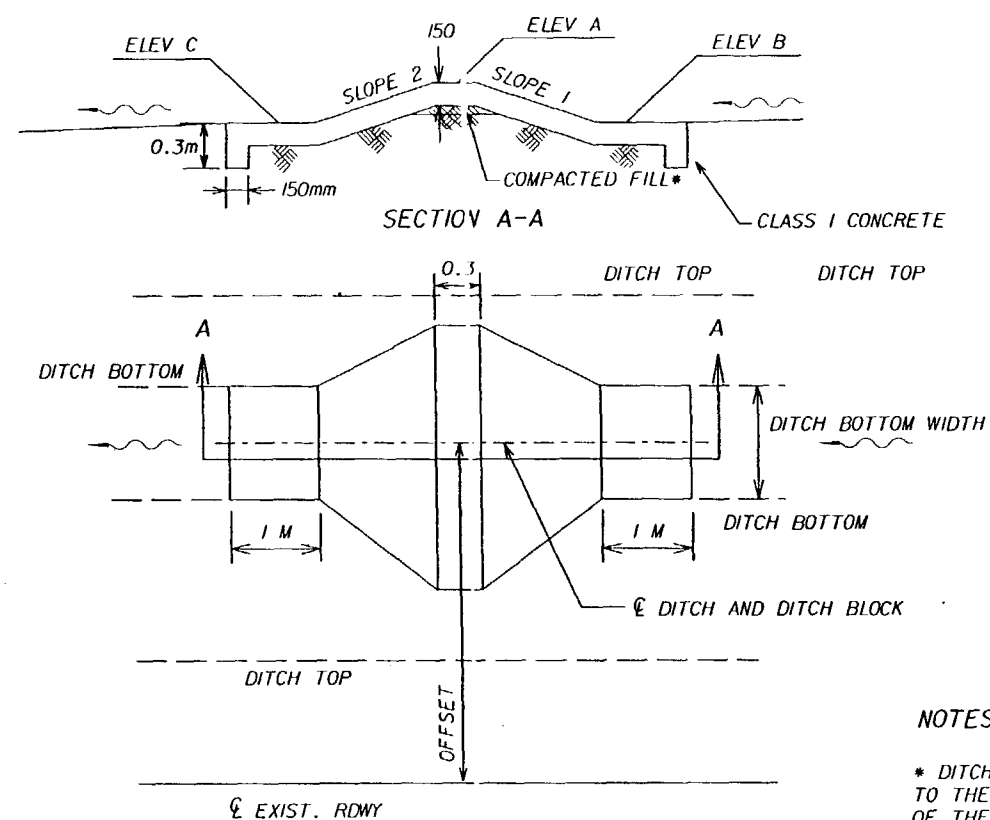
DRAINAGE STRUCTURES

SHEET NO.
26



STRUCTURES S-24, S-25
AND S-27 THROUGH S-30

DITCH BLOCK DETAILS
NOT TO SCALE



STRUCTURES S-31 AND S-32

NOTES

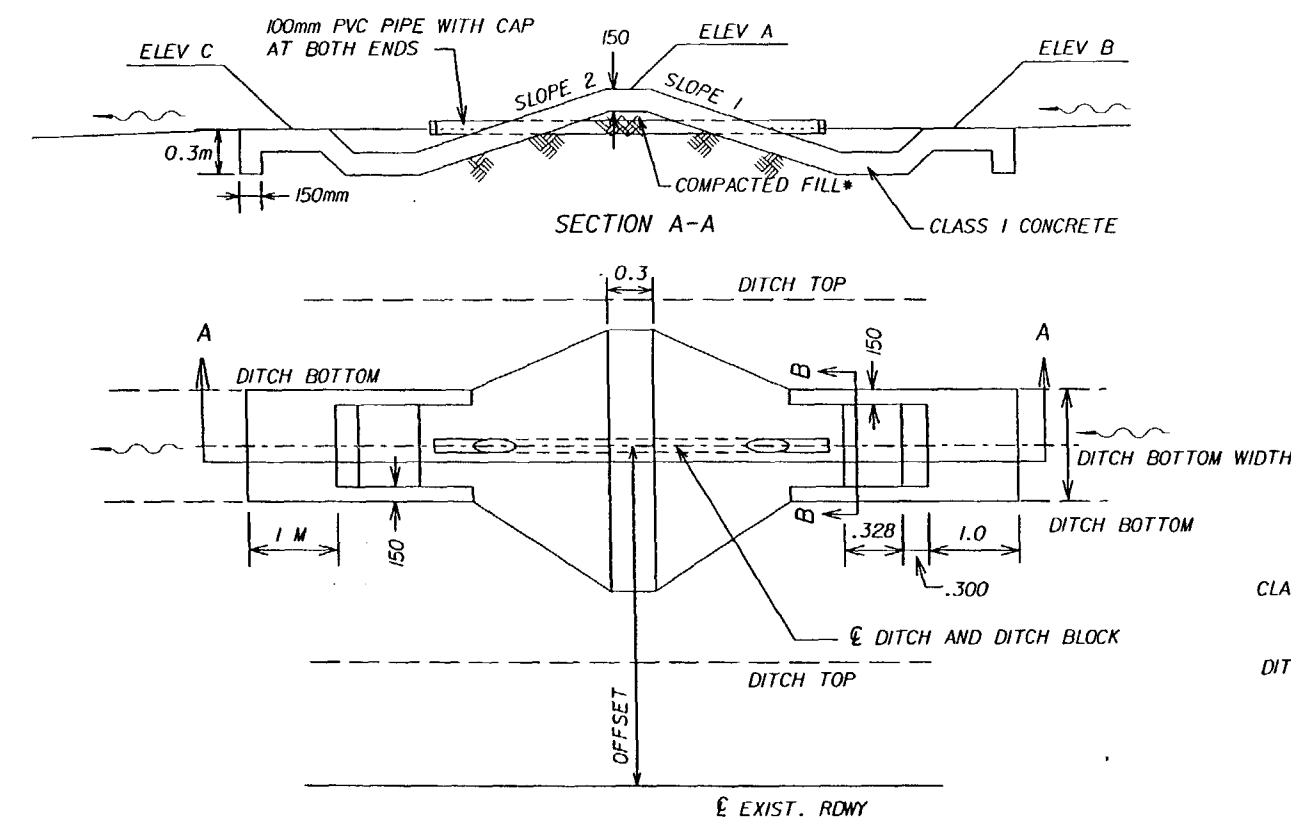
* DITCH BLOCKS FILL SHALL BE COMPACTED TO THE DENSITY SPECIFIED IN SECTION 120-9.2.1 OF THE 2000 STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED.

STRUCTURES S-31 AND S-32 DO NOT HAVE 100mm PIPE AND CAPS.

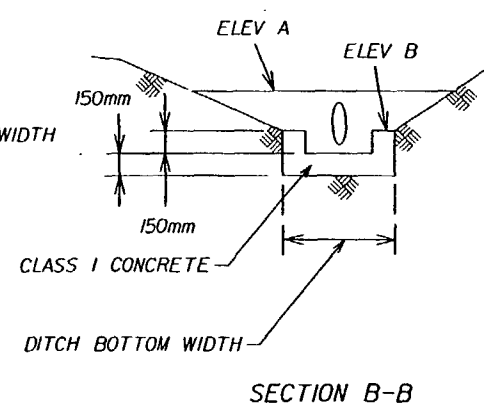
ORIFICE TO BE DRILLED IN CENTER OF CAP.

DITCH BLOCK SUMMARY (PERMANENT STRUCTURE)

STRUCTURE NUMBER	STATION	OFFSET	SIDE	ELEV. A	ELEV. B	ELEV. C	SLOPE 1	SLOPE 2	ORIFICE SIZE (mm)	CLASS 1 CONC. (M3)	100 PVC PIPE (MI)	FILL (M3)
S-24	10+00.000	13.0	LT	17.00	16.65	16.65	1:4	1:2	76	2.0	3.2	0.5
S-25	10+00.000	11.0	RT	16.80	16.50	16.50	1:2	1:4	76	1.3	2.9	0.2
S-26	12+00.000	10.0	RT	17.00	16.70	16.60	1:2	1:4	76	1.4	2.8	0.2
S-27	14+00.000	12.6	LT	17.20	17.00	17.00	1:4	1:2	76	2.6	2.3	0.1
S-28	15+00.000	11.5	RT	17.10	16.85	16.85	1:2	1:4	76	2.2	2.6	0.2
S-29	20+00.000	12.0	LT	17.65	17.30	17.30	1:4	1:2	76	2.0	2.0	0.5
S-30	20+00.000	11.0	RT	17.45	17.10	17.10	1:2	1:4	76	2.5	3.4	0.8
S-31	26+00.000	11.5	LT	17.65	17.60	17.60	1:4	1:2	N/A	0.9	N/A	0
S-32	26+00.000	14.0	RT	17.45	17.40	17.40	1:2	1:4	N/A	0.9	N/A	0
TOTAL										15.8	19.2	2.5



STRUCTURE S-26



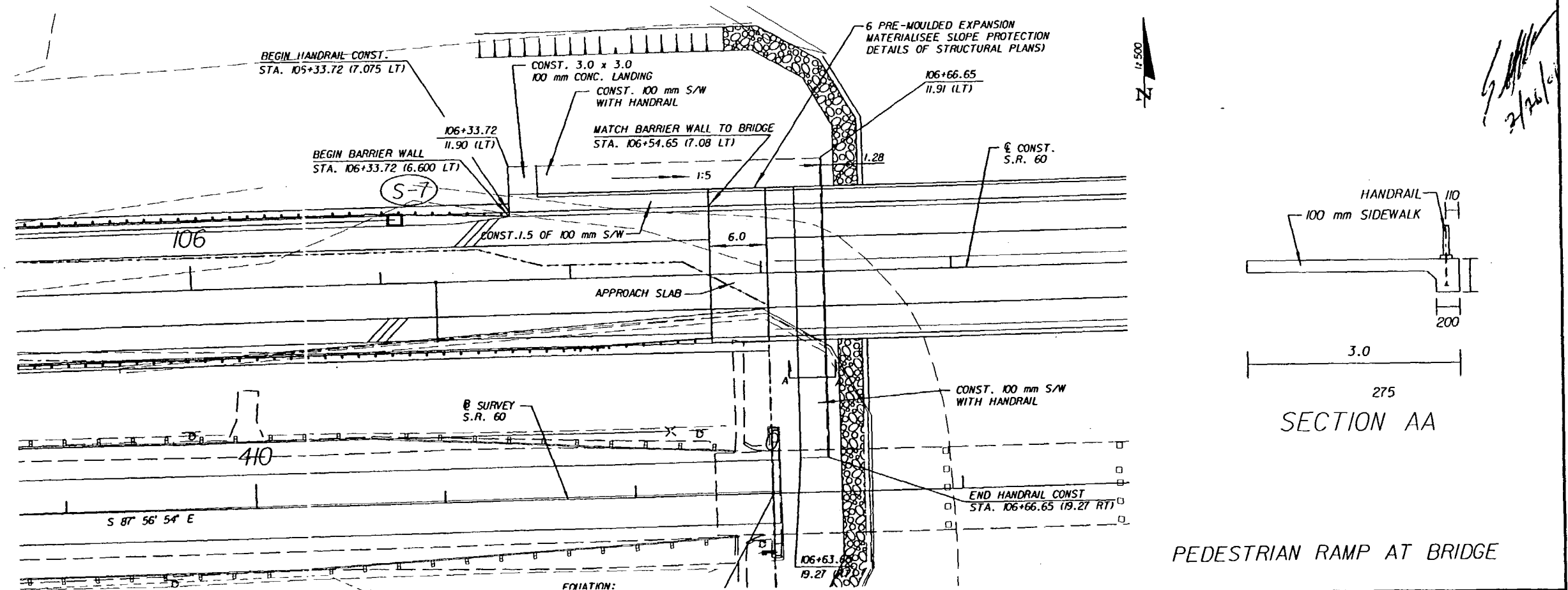
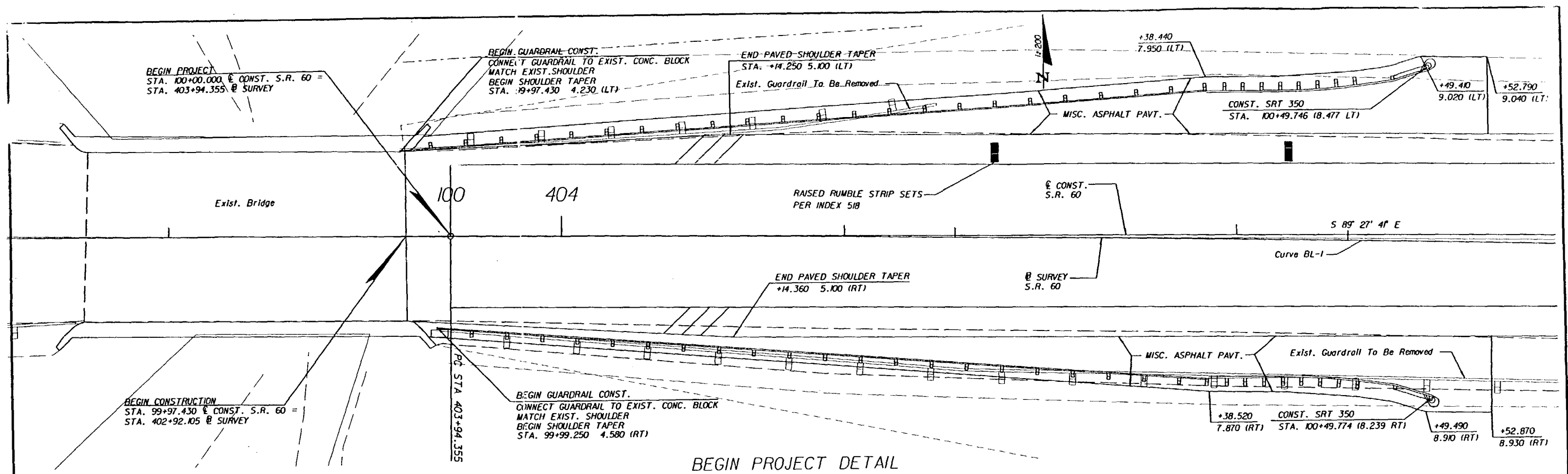
SECTION B-B


REVISIONS				PREPARED BY:		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 28
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 60	OSCEOLA POLK	239713-1-52-01 197661-1-52-01	

WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

DITCH BLOCK DETAILS

Richard J. Smith
2/23/01



REVISIONS						<div><p>TEI Engineers & Planners</p><p>300 PRIMERA BLVD., SUITE 200, LAKE MARY, FL 32746 (407) 805-0355 ENGINEERING BUSINESS NO. ED6105</p></div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MISCELLANEOUS CONST. DETAIL	SHEET NO.													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.		COUNTY		FINANCIAL PROJ. ID.		S.R. 60		OSCEOLA	239718-1-52-01		S.R. 60		POLK	197668-1-52-01			29
ROAD NO.		COUNTY	FINANCIAL PROJ. ID.																					
S.R. 60		OSCEOLA	239718-1-52-01																					
S.R. 60		POLK	197668-1-52-01			29																		



0001:1

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA POLK	239713-1-52-01 197661-1-52-01

SHEET
NO.

30

Richard L. Brown
10/23/21

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

STATE PROJECT No.: 92070-3501 WPI No.: 5115775
ROAD No.: S.R. 60 KISSIMMEE RIVER BRIDGE REPLACEMENT
DISTRICT No.: 5
SUBMITTED BY: GODWIN N. NNADI, PhD. P.E.

SECTION: 2,3,10,11,12
TOWNSHIP: 31 SOUTH
RANGE: 31 EAST

DATE SURVEYED: OCTOBER 1997
APRIL, MAY AND
OCTOBER 1998

CROSS SECTION SOIL SURVEY REPORT OF TESTS

SURVEYED BY: PSI.
SURVEY BEGINS: STA. 100+00 (C OF CONST.) SURVEY BEGINS: STA. 10+00 (OSCEOLA COUNTY BASELINE)
SURVEY ENDS: STA. 115+26 (C OF CONST.) SURVEY ENDS: STA. 26+00 (OSCEOLA COUNTY BASELINE)
DATE REPORTED: JANUARY 2001

LBR TEST			ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)			CORROSION TEST RESULTS					SUBSTRUCTURE ENVIRONMENTAL CLASSIFICATION		
STRATUM NO.	No. OF TESTS	LBR VALUE (%)	No. OF TESTS	% ORGANIC	No. OF TESTS	MOISTURE CONTENT	No. OF TESTS	% PASSING 10 MESH	% PASSING 40 MESH	% PASSING 60 MESH	% PASSING 100 MESH	% PASSING 200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	RESISTIVITY OHM-CM	CHLORIDES PPM	SULFATE PPM	pH	CONCRETE	STEEL
1	6	17-50	-	-	25	14-34	19(FULL) 18(-200)	97-100	86-100	55-97	22-73	2-10	9	NP	NP	A-3	GRAY BROWN TO GREEN GRAY FINE SAND TO FINE SAND WITH SILT	1,400-60,900	11-60	<3-93	7.3-8.4	M	M
2	-	-	-	-	4	17-25	6(FULL) 5(-200)	100	99-100	93-98	69-80	13-26	6	28-39	11-23	A-2-6	GRAY TO RED BROWN CLAYEY FINE SAND	980-2,300	45-60	19-36	7.3-8.6	M	M
3	-	-	9	6-54	8	62-169	1(-200)	-	-	-	-	19	-	-	-	A-8	RED BROWN SANDY PEAT/MUCK	3,207-4,019	45-75	150-222	7.1-7.2	M	M
4	-	-	-	-	-	-	2(FULL)	77-94	66-86	54-76	30-49	11-13	-	-	-	A-2-4	LIGHT GRAY BROWN FINE SAND TO SILTY FINE SAND WITH SHELL	1908	40	79	7.3	M	M
5	-	-	1	1	9	19-36	1(FULL) 11(-200)	100	97	73	39	11-26	7	NP	NP	A-2-4	GRAY BROWN TO GREEN GRAY SILTY FINE SAND	85,000	45	30	7.2	S	S
6	-	-	-	-	-	-	1(FULL)	100	99	34	74	26	1	NP	NP	A-2-4	GREEN SILTY FINE SAND WITH TRACE CLAY	1948	60	<3	5.1	M	E
7	-	-	-	-	6	60-95	2(FULL) 6(-200)	100	100	39	94-96	39-100	5	46-181	19-140	A-7-5 A-7-6	GREEN GRAY SANDY CLAY TO CLAY	-	-	-	-	-	-
8	-	-	-	-	-	-	1(FULL)	74	54	35	17	9	1	NP	NP	A-3	LIGHT GRAY BROWN FINE SAND TO FINE SAND WITH SILT AND SHELL	-	-	-	-	-	-

NOTES:

- (1) STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. ANY STRATUM CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.
- (2) IF THE SYMBOL "-" IS PRESENT, IT REPRESENTS UNMEASURED SOIL PARAMETERS.
- (3) ∇ INDICATES WATER TABLE WHERE ENCOUNTERED AT TIME OF SURVEY. GNE INDICATES GROUNDWATER LEVEL NOT ENCOUNTERED AT TIME OF SURVEY. ∇ INDICATES ESTIMATED SEASONAL HIGH WATER LEVEL.

- (4) REMOVAL OF MUCK, PLASTIC AND HIGH PLASTIC MATERIAL OCCURRING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX No. 500 UNLESS OTHERWISE SHOWN ON PLANS. THE MATERIAL UTILIZED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX NO. 505.
- (5) STRATUM 3 SHOULD BE TREATED AS MUCK (M) MATERIALS.
- (6) STRATA 1,4,5,6 AND 8 SHOULD BE TREATED AS SELECT (S) MATERIALS PER INDEX No. 505.
- (7) STRATA 4,5 AND 6 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.

- (8) STRATUM 2 SHOULD BE TREATED AS PLASTIC (P) MATERIALS PER INDEX 500 & 505.
- (9) STRATUM 7 SHOULD BE TREATED AS HIGH PLASTIC (H) MATERIAL PER INDEX 500 & 505.
- (10) ENVIRONMENTAL CLASSIFICATION:
S = SLIGHTLY AGGRESSIVE
M = MODERATELY AGGRESSIVE
E = EXTREMELY AGGRESSIVE
- (11) THE SYMBOL "NP" REPRESENTS NON-PLASTIC.

Godwin N. NNADI
2/23/2001

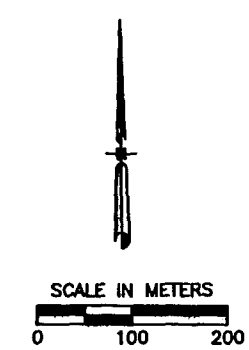
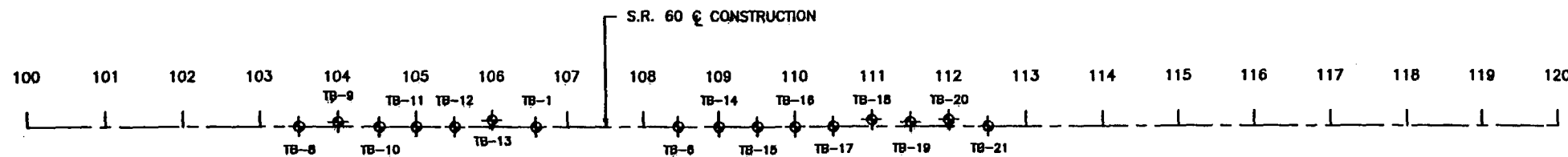
REVISIONS					
Date	By	Description	Date	By	Description

PSI Environmental
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
S.R.60	OSCEOLA	239718-1-52-01
S.R.60	POLK	197668-1-52-01

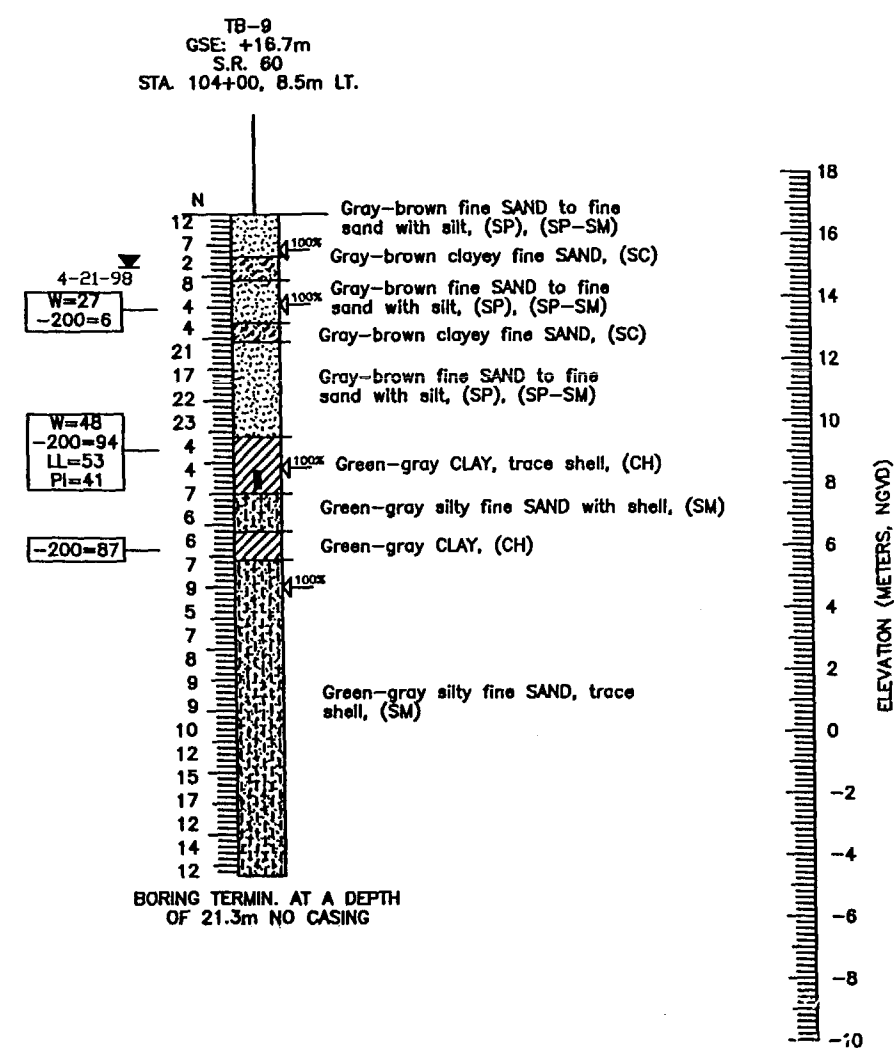
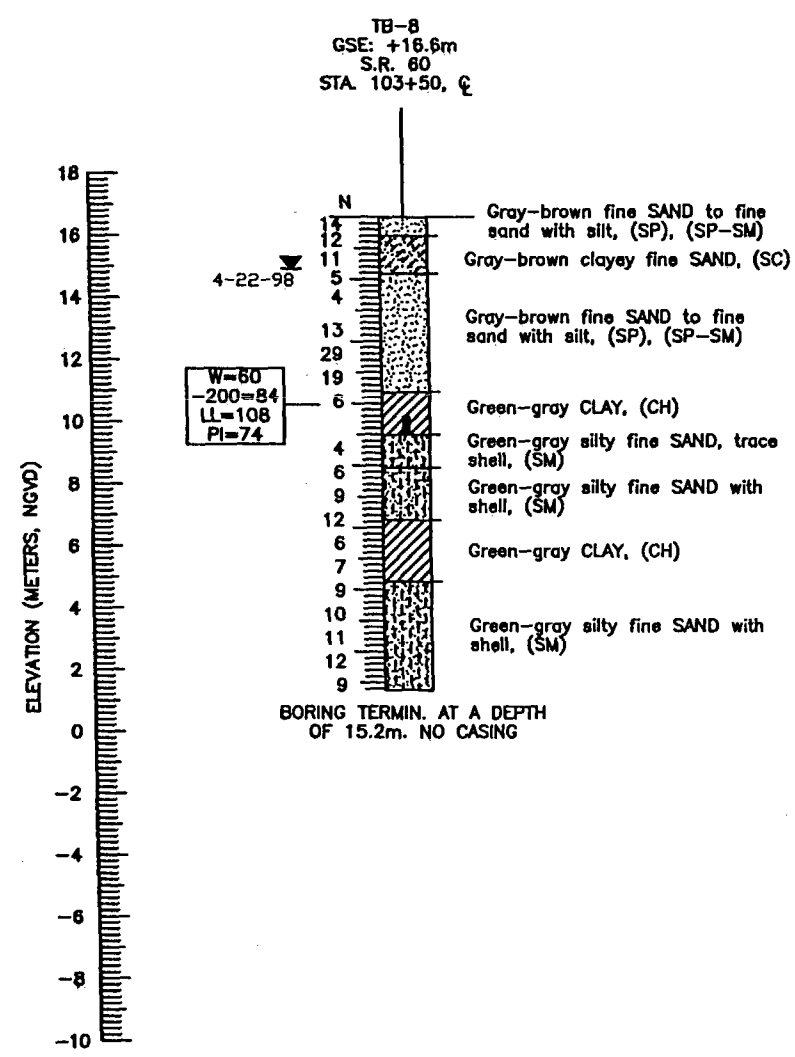
ROADWAY SOIL SURVEY	
S.R. 60	
POLK AND OSCEOLA COUNTIES, FLORIDA	

SHEET NO.
31



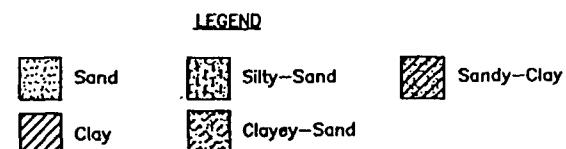
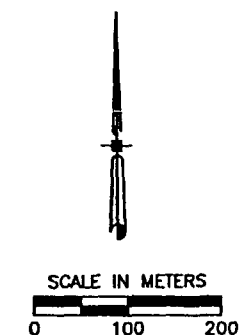
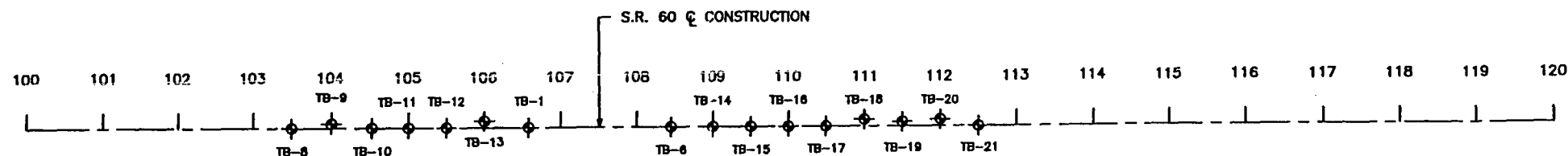
- LEGEND**
- Sand
 - Silty-Sand
 - Sandy-Clay
 - Clay
 - Clayey-Sand
 - (SP) Unified soil classification group symbol
 - ▼ 5-21-98 Water table level
 - GSE Ground Surface Elevation
 - N Standard penetration resistance in blows per 305mm (455mm spoon ASTM D-1586) using a 63.5 kg safety hammer unless otherwise noted
 - Undisturbed Shelby Tube Location Sample
 - ↪ 100% Circulation Loss in Percent
 - W= Natural moisture content (%) (FM 1-T 265)
 - 200= Percent passing no. 200 U.S. standard sieve
 - LL= Liquid limit (FM 1-T 089)
 - PI= Plasticity index (FM 1-T 090)
 - ⊕ Standard Penetration Test (SPT) Boring Location

- NOTES**
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GRANULAR MATERIALS	
Relative Density	SPT (Blows/305mm)
Very loose	Less than 4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Greater than 50
SILTS AND CLAYS	
Consistency	SPT (Blows/305mm)
Very soft	Less than 2
Soft	2-4
Firm	4-8
Stiff	8-15
Very stiff	15-30
Hard	Greater than 30

REVISIONS <table border="1"> <tr> <th>Date</th> <th>By</th> <th>Description</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				Date	By	Description	Date	By	Description							ENGINEER OF RECORD: GOWIN N. NNADI, P.E. #50637 1875 LEE ROAD WINTER PARK, FLORIDA 32789		LOGO: 		SEAL: 2/23/2001 FLORIDA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL DESIGN OFFICE		PROJECT NO.: 92070-3501 ROAD NO.: S.R.60 COUNTY: POLK & OSCEOLA		PROJECT NAME: S.R. 60 REPORT OF SPT BORINGS FOR EMBANKMENT	
Date	By	Description	Date	By	Description																				



(SP) Unified soil classification group symbol

7-23-98 Water table level

GSE Ground Surface Elevation

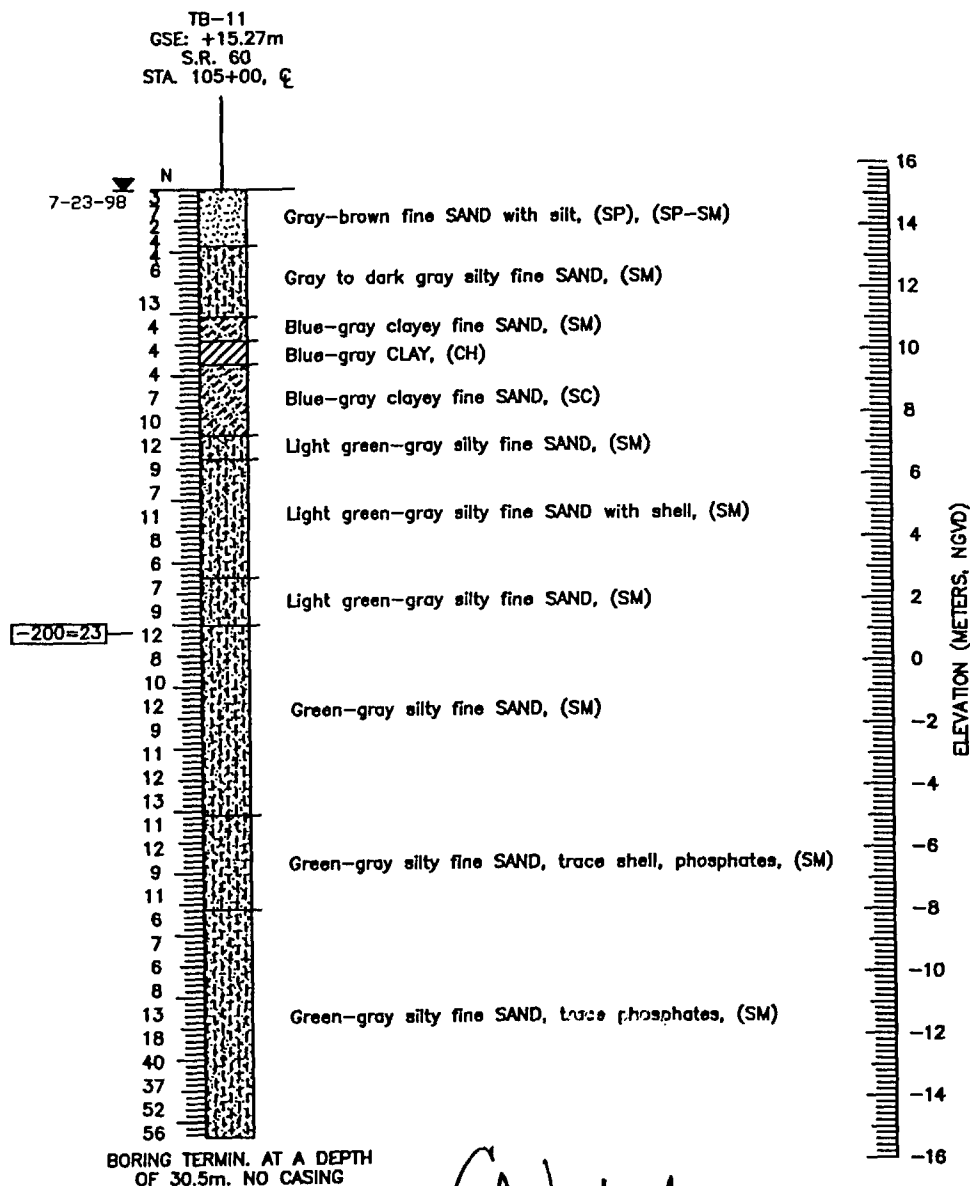
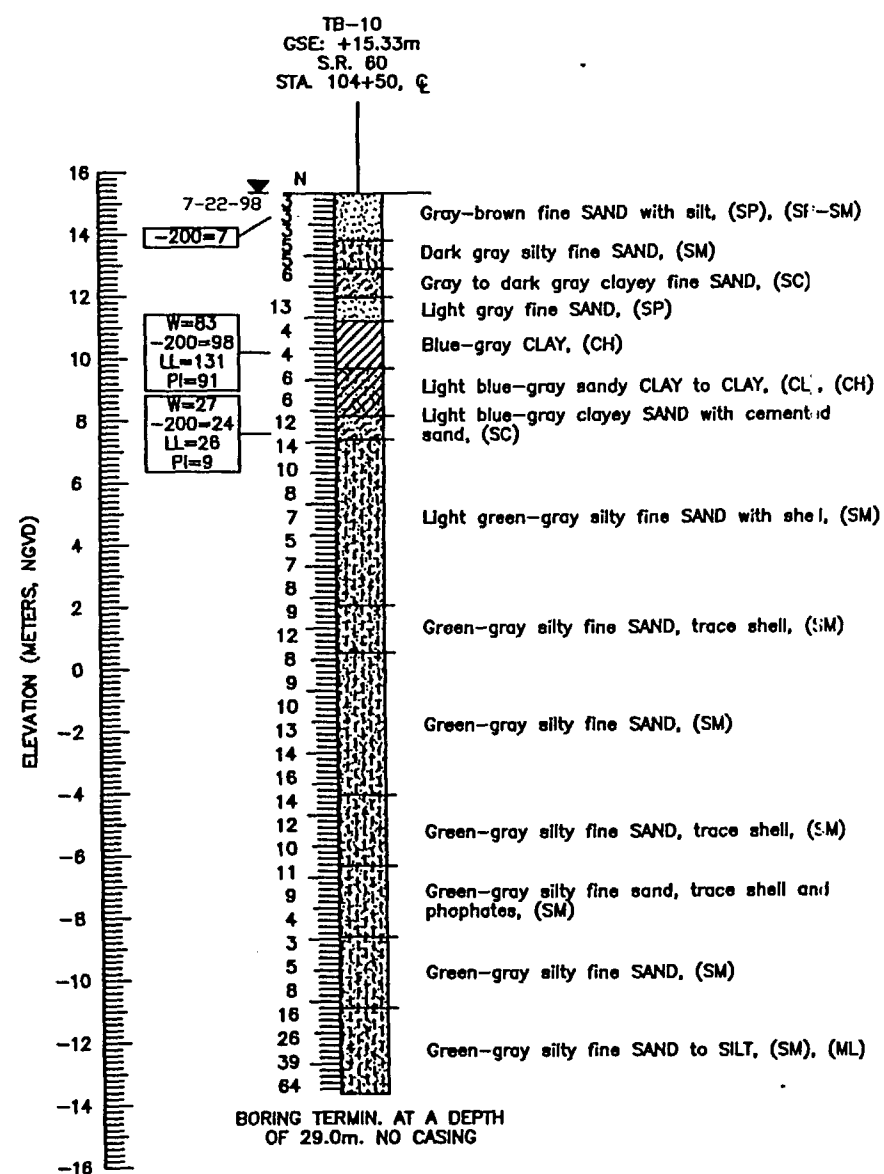
Standard penetration resistance in blows per 305mm (455mm spoon ASTM D-1586) using a 63.5 kg safety hammer unless otherwise noted

W= Natural moisture content (%) (FM 1-T 265)
 -200= Percent passing no. 200 U.S. standard sieve
 LL= Liquid limit (FM 1-T 089)
 PI= Plasticity index (FM 1-T 090)

Standard Penetration Test (SPT) Boring Location

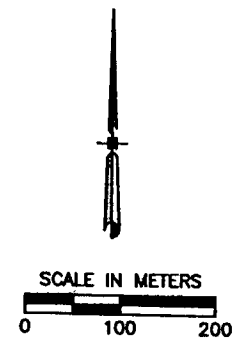
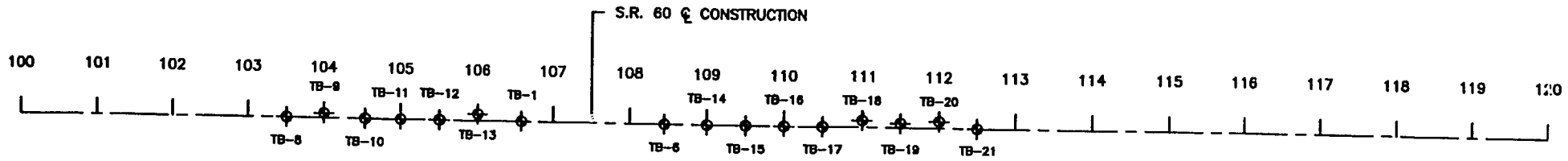
NOTES

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Very stiff	15-30
Hard	Greater than 30

REVISIONS <table border="1"> <tr> <th>Date</th> <th>By</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>				Date	By	Description				ENGINEER OF RECORD: GOWIN N. NNADE, P.E. #50837 1875 LEE ROAD WINTER PARK, FLORIDA 32789		LOGO: 		SEAL: 2/23/2001 FLORIDA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL DESIGN OFFICE		REPORT OF SPT BORINGS FOR EMBANKMENT PROJECT NAME: S.R. 60	
Date	By	Description															
Drawn by: GWN Checked by: GWN Designed by: N/A Checked by: N/A Approved by: GWN			Date: 1-30-01 Date: 1-30-01 Date: N/A Date: N/A		COUNTY: POLK & OSCEOLA PROJECT NO.: 92070-3501		Drawing No.: Index No.:										



LEGEND

Sand	Silty-Sand	Sandy-Clay
Clay	Clayey-Sand	Muck

(SP) Unified soil classification group symbol

▽ Water table level

GSE Ground Surface Elevation

N Standard penetration resistance in blows per 305mm (455mm spoon ASTM D-1586) using a 63.5 kg safety hammer unless otherwise noted

■ Undisturbed Shelby Tube Location Sample

WR Weight of Rod

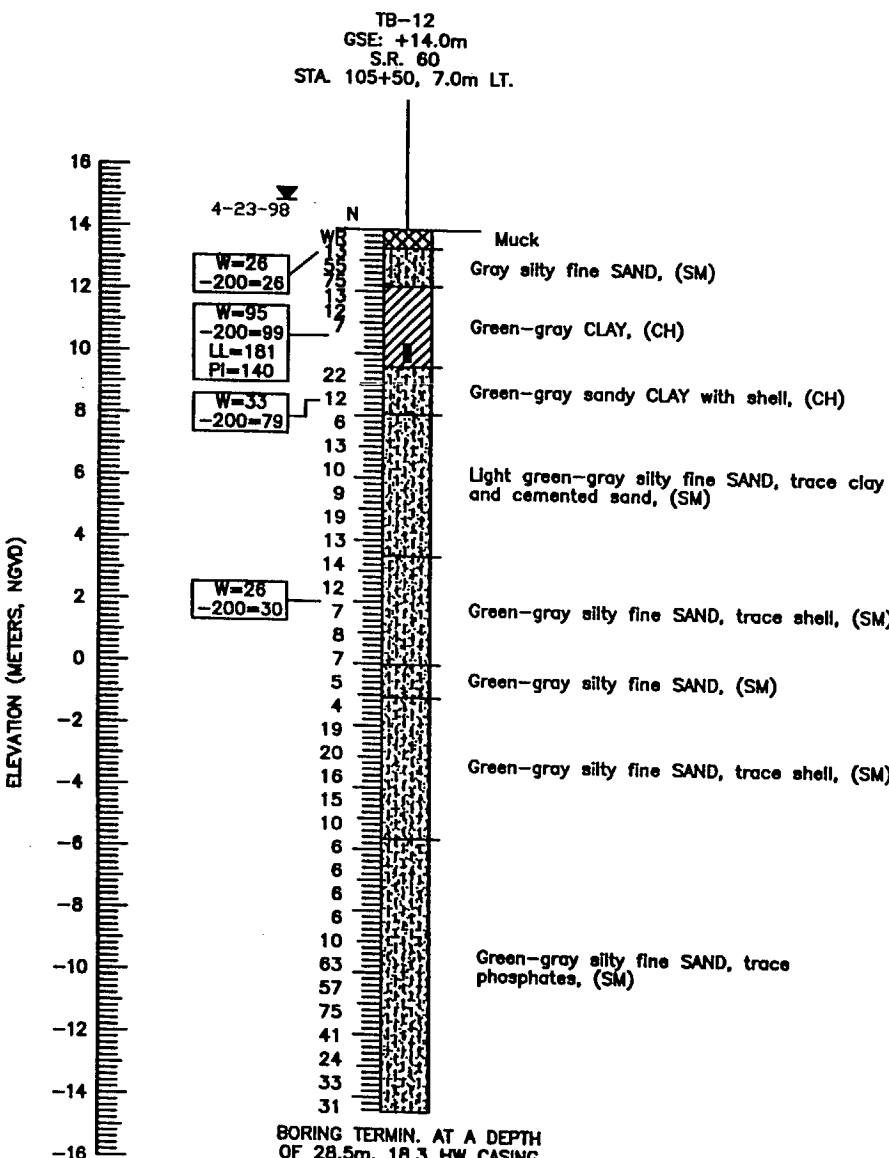
W= Natural moisture content (%) (FM 1-T 265)
-200= Percent passing no. 200 U.S. standard sieve
LL= Liquid limit (FM 1-T 089)
PI= Plasticity index (FM 1-T 090)

◆ Standard Penetration Test (SPT) Boring Location

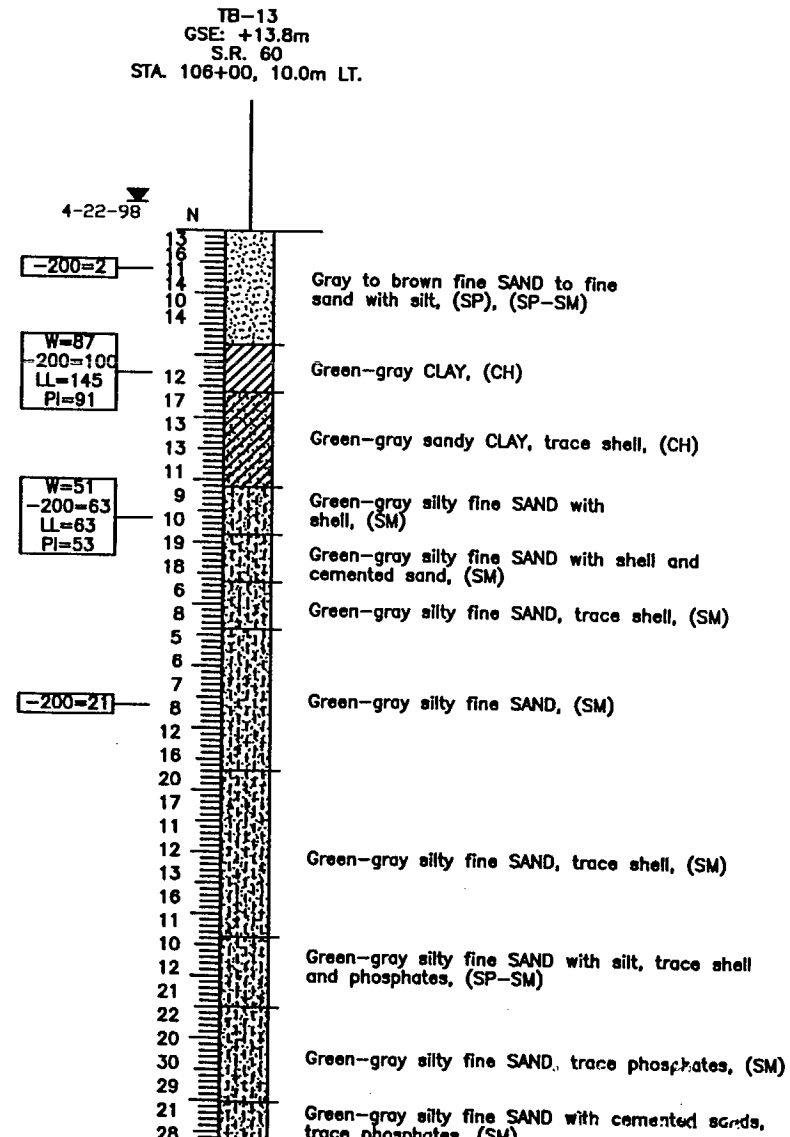
- NOTES**
1. Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
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BORING TERMIN. AT A DEPTH OF 28.5m. 18.3 HW CASING



BORING TERMIN. AT A DEPTH OF 29.3m. 18.3m HW CASING

REVISIONS				ENGINEER OF RECORD:			LOGO:		SEAL:		PROJECT INFORMATION		DRAWING INFORMATION		
Date	By	Description		Drawn by	Checked by	Designated by	Approved by	NAME	DATE	2/23/2001	ROAD NO.	COUNTY	PROJECT NO.	PROJECT NAME	Drawing No.
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								1675 LEE ROAD	1-30-01						
								WINTER PARK, FLORIDA 32789	N/A						
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FLORIDA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL DESIGN OFFICE

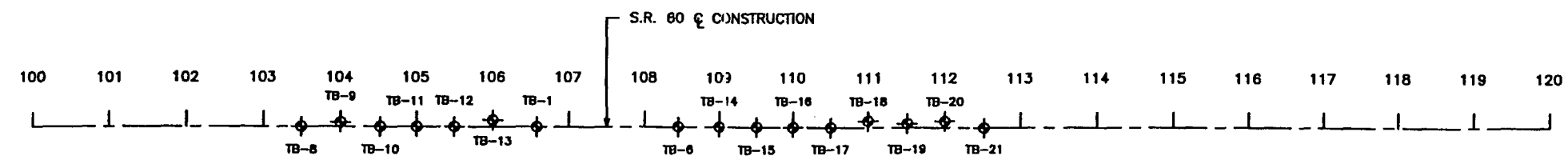
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REPORT OF SPT BORINGS FOR EMBANKMENT

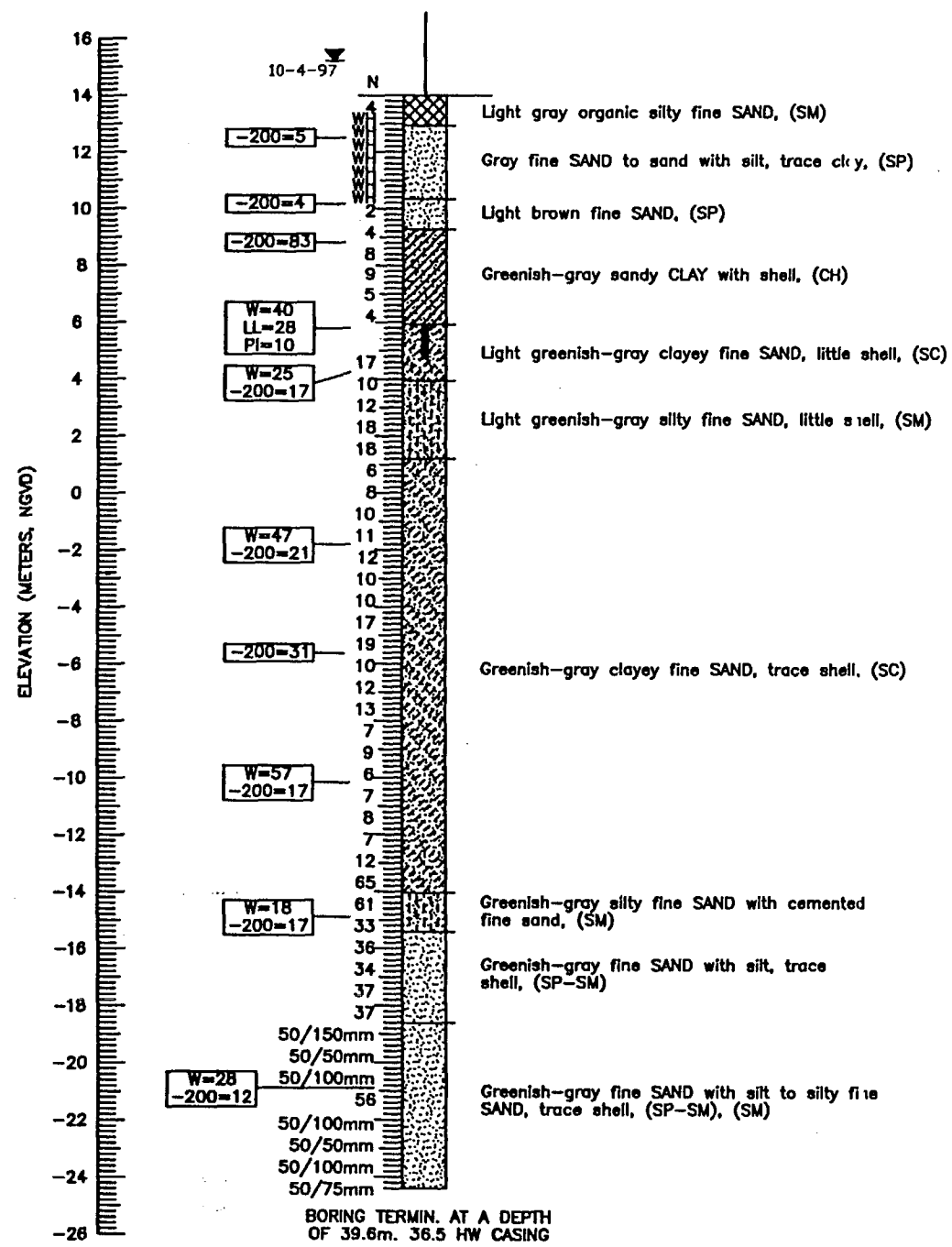
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PROJECT NAME: S.R. 60

Index No.

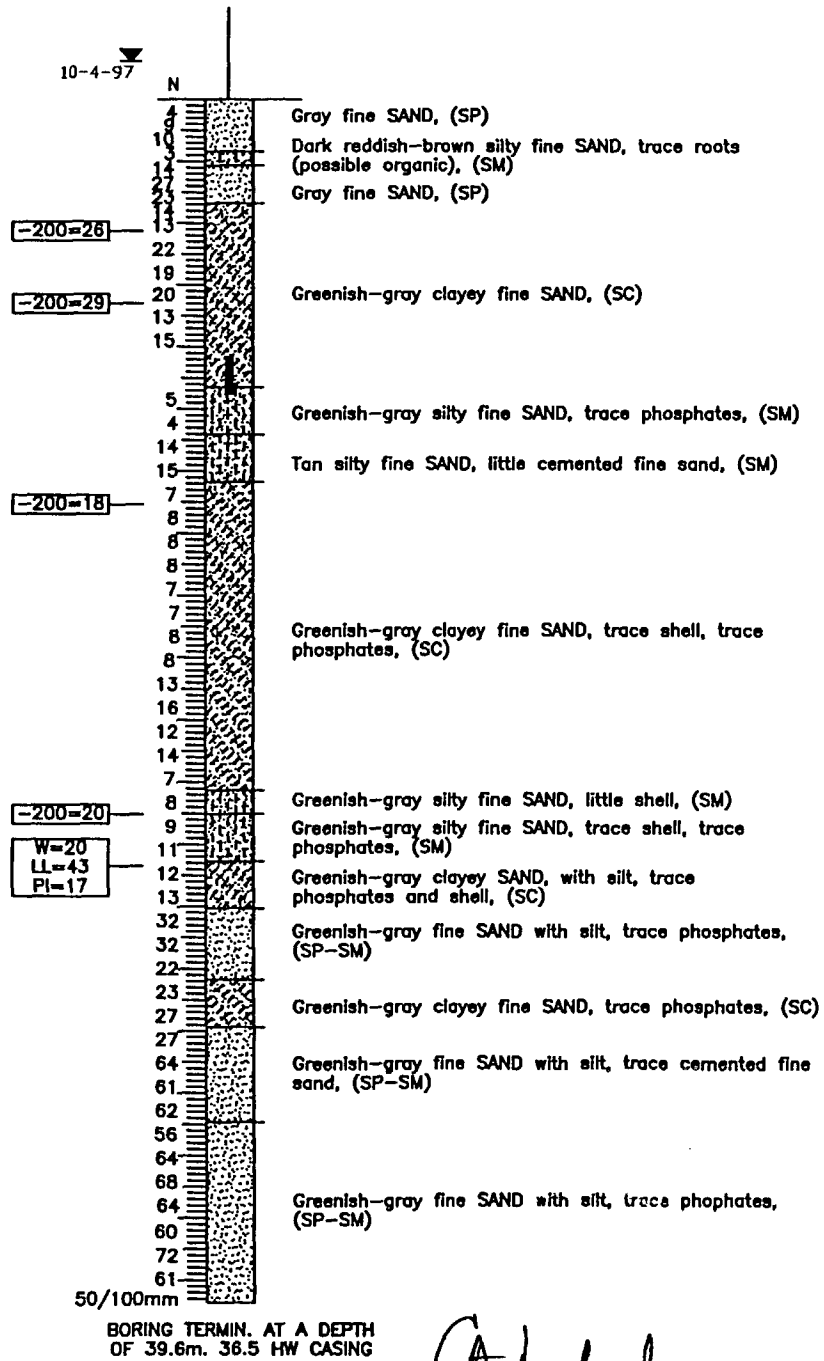


TB-1
GSE: +14.0m
Construction Centerline
STA. 106+60, C



BORING TERMIN. AT A DEPTH
OF 39.6m. 36.5 HW CASING

TB-6
GSE: +14.2m
Construction Centerline
STA. 108+43, C



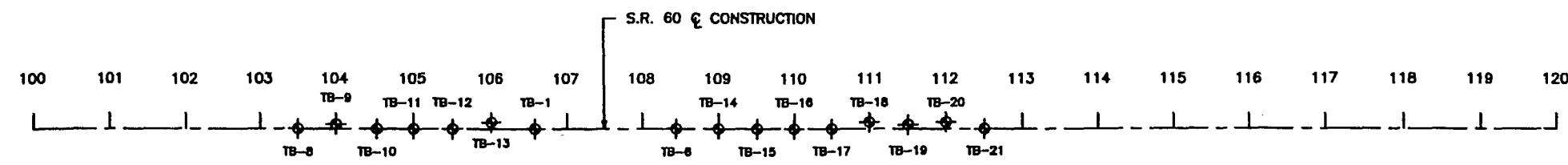
BORING TERMIN. AT A DEPTH
OF 39.6m. 36.5 HW CASING

- LEGEND**
- Sand
 - Silty-Sand
 - Sandy-Clay
 - Clay
 - Clayey-Sand
 - (SP) Unified soil classification group symbol
 - 10-4-97 Water table level
 - GSE Ground Surface Elevation
 - N Standard penetration resistance in blows per 305mm (455mm spoon ASTM D-1586) using a 63.5 kg safety hammer unless otherwise noted
 - W= Natural moisture content (%) (FM 1-T 265)
 - 200= Percent passing no. 200 U.S. standard sieve
 - LL= Liquid limit (FM 1-T 089)
 - PI= Plasticity index (FM 1-T 090)
 - WH Fell under weight of Rod and Hammer
 - 50/25mm Number of blows required (50) to drive sampling spoon 25mm
 - Undisturbed Shelby Tube Location Sample
 - Standard Penetration Test (SPT) Boring Location

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REVISIONS <table border="1"> <tr> <th>Date</th> <th>By</th> <th>Description</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				Date	By	Description	Date	By	Description							ENGINEER OF RECORD: GOWIN N. NNADI, P.E. #50637 PSI 1875 LEE ROAD WINTER PARK, FLORIDA 32789		LOGO: 		SEAL: 2/23/2001 FLORIDA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL DESIGN OFFICE		PROJECT NO.: 92070-3501 COUNTY: POLK & OSCEOLA ROAD NO.: S.R. 60		REPORT OF SPT BORINGS FOR EMBANKMENT PROJECT NAME: S.R. 60	
Date	By	Description	Date	By	Description																				



LEGEND

Sand, Silty-Sand, Muck, Clay, Clayey-Sand

(SP) Unified soil classification group symbol

Water table level

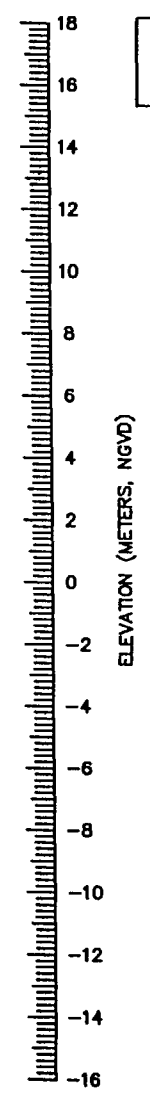
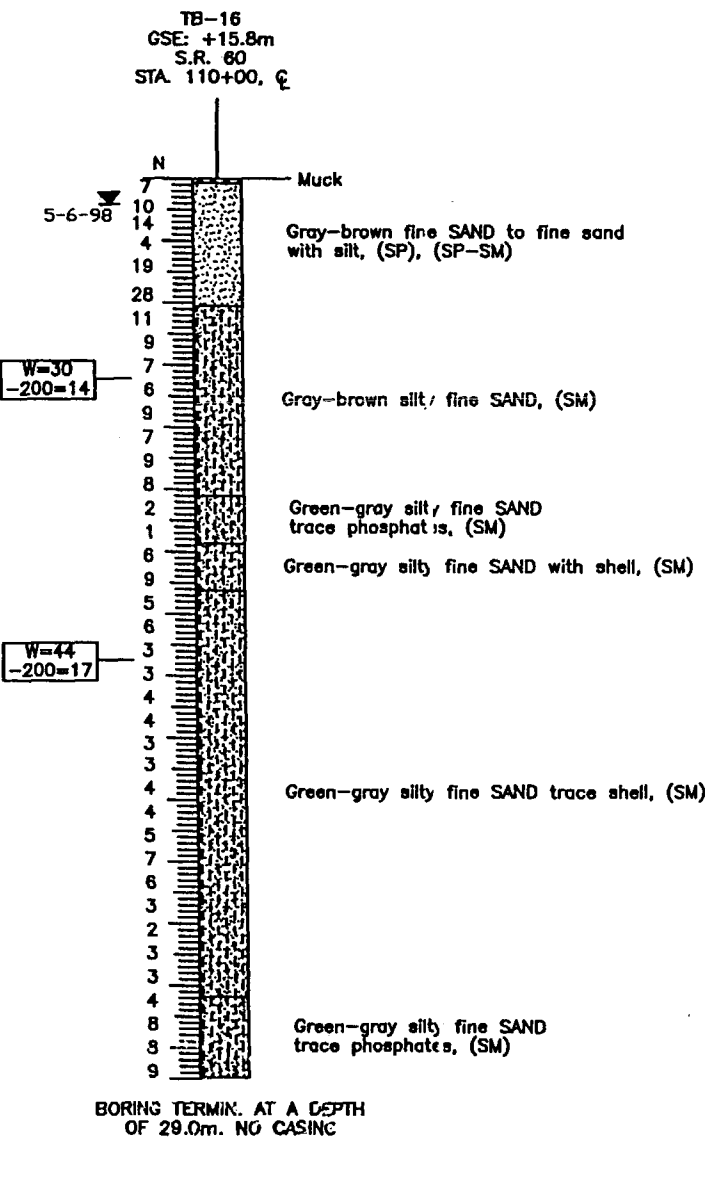
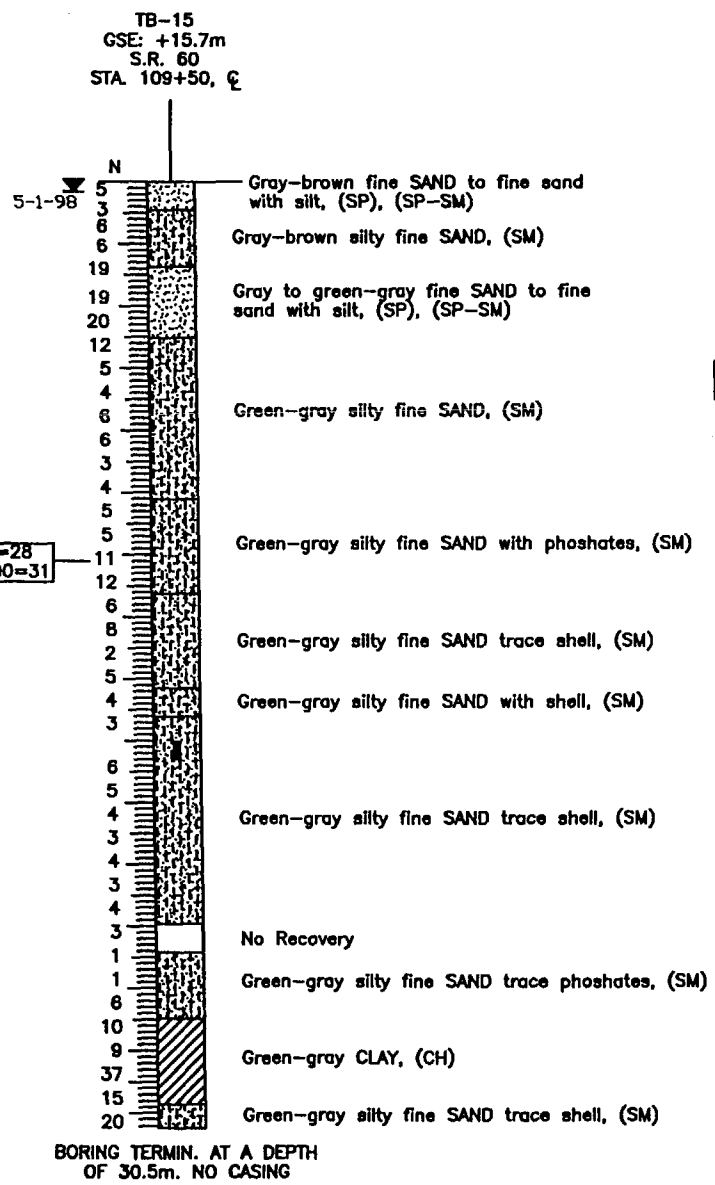
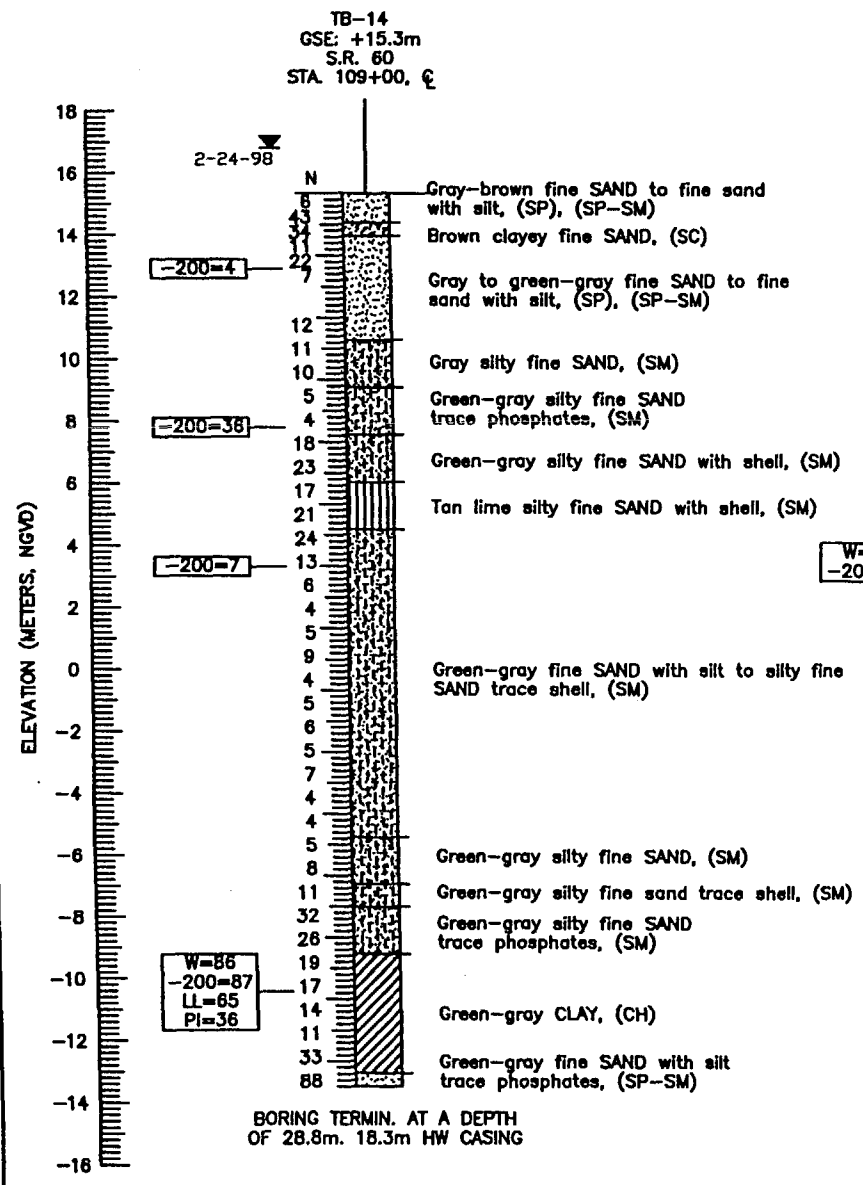
GSE Ground Surface Elevation

Standard penetration resistance in blows per 305mm (455mm spoon ASTM D-1586) using a 63.5 kg safety hammer unless otherwise noted

Undisturbed Shelby Tube Location Sample

W= Natural moisture content (%) (FM 1-T 265)
-200= Percent passing no. 200 U.S. standard sieve
LL= Liquid limit (FM 1-T 089)
PI= Plasticity index (FM 1-T 090)

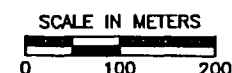
Standard Penetration Test (SPT) Boring Location



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REVISIONS				ENGINEER OF RECORD:		LOGO:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:	
Date	By	Description	Date	Drawn by	DAW	1-30-01		GEOTECHNICAL DESIGN OFFICE		REPORT OF SPT BORINGS FOR EMBANKMENT	
				Checked by	GM	1-30-01		PROJECT NO. 92070-3501		Drawing No.	
				Designed by	N/A	N/A		CITY POLK & OSCEOLA		Index No.	
				Checked by	N/A	N/A		PROJECT NO. 92070-3501			
				Approved by	GM					PROJECT NAME: S.R. 60	



5-5-98 Water table level

GSE Ground Surface Elevation

N Standard penetration resistance in blows per 305mm (455mm spoon ASTM D-1586) using a 63.5 kg safety hammer unless otherwise noted

■ Undisturbed Shelby Tube Location Sample

W=	Natural moisture content (%) (FM 1-T 265)
-200=	Percent passing no. 200 U.S. standard sieve
LL=	Liquid limit (FM 1-T 089)
PI=	Plasticity index (FM 1-T 090)

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ENGINEER OF RECORD:
GODWIN N. NNADI, P.E. #50637
PSI
1675 LEE ROAD
WINTER PARK, FLORIDA 32789

LOGO:

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Geotechnical
Construction
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SEAL: 2/23/2021

FLORIDA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL DESIGN OFFICE



ROAD NO.	COUNTY	PROJECT NO.
S.R.60	POLK & OSCEOLA	92070-3501

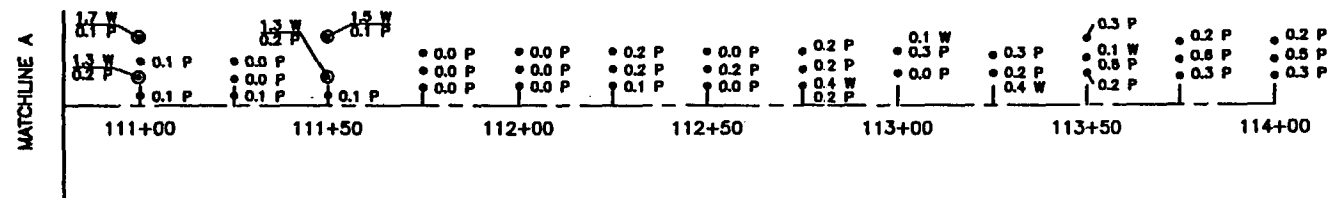
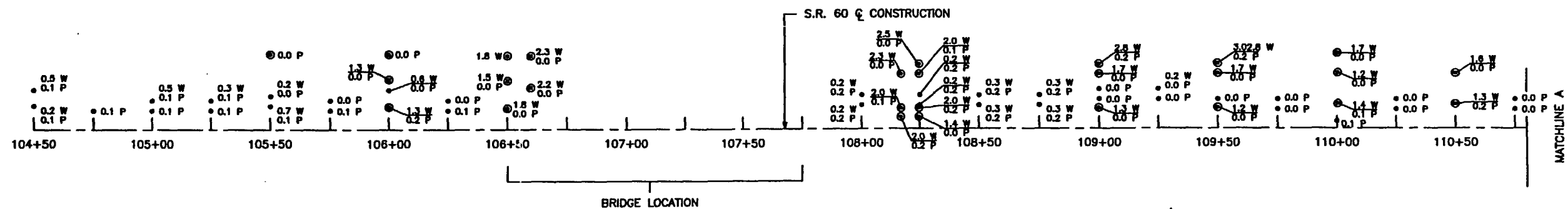
REPORT OF SPT BORINGS FOR EMBANKMENT

PROJECT NAME: S.R. 60

Dungeness, No.

Index No.

REVISIONS										ENGINEER OF RECORD:		LOGO: 	SEAL: 	FLORIDA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL DESIGN OFFICE			SHEET TITLE: REPORT OF SPT BORINGS FOR EMBANKMENT		Drawing No.
Date	By	Description	Date	By	Description	Drawn by	Name	Date	GOODWIN N. NNADI, P.E. #50637	ROAD NO. SR 60	COUNT POLK & OSCEOLA			PROJECT NO. 92070-3501	PROJECT NAME: S.R. 60	Index No.			
						Checked by	GWH	1-30-01	PSI										
						Designed by	N/A	N/A	1675 LEE ROAD										
						Checked by	N/A	N/A	WINTER PARK, FLORIDA 32789										
						Approved by	GWH												



LEGEND

- MUCK PROBE LOCATION (July 29, 1998)
- ⊙ MUCK PROBE LOCATION (January 15, 1999)
- 0.4 W DEPTH OF STANDING WATER IN METERS
- 2.0 P THICKNESS OF PEAT/MUCK IN METERS

Atchley
2/23/2004

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Geotechnical
Construction
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REVISIONS					
Date	By	Description	Date	By	Description

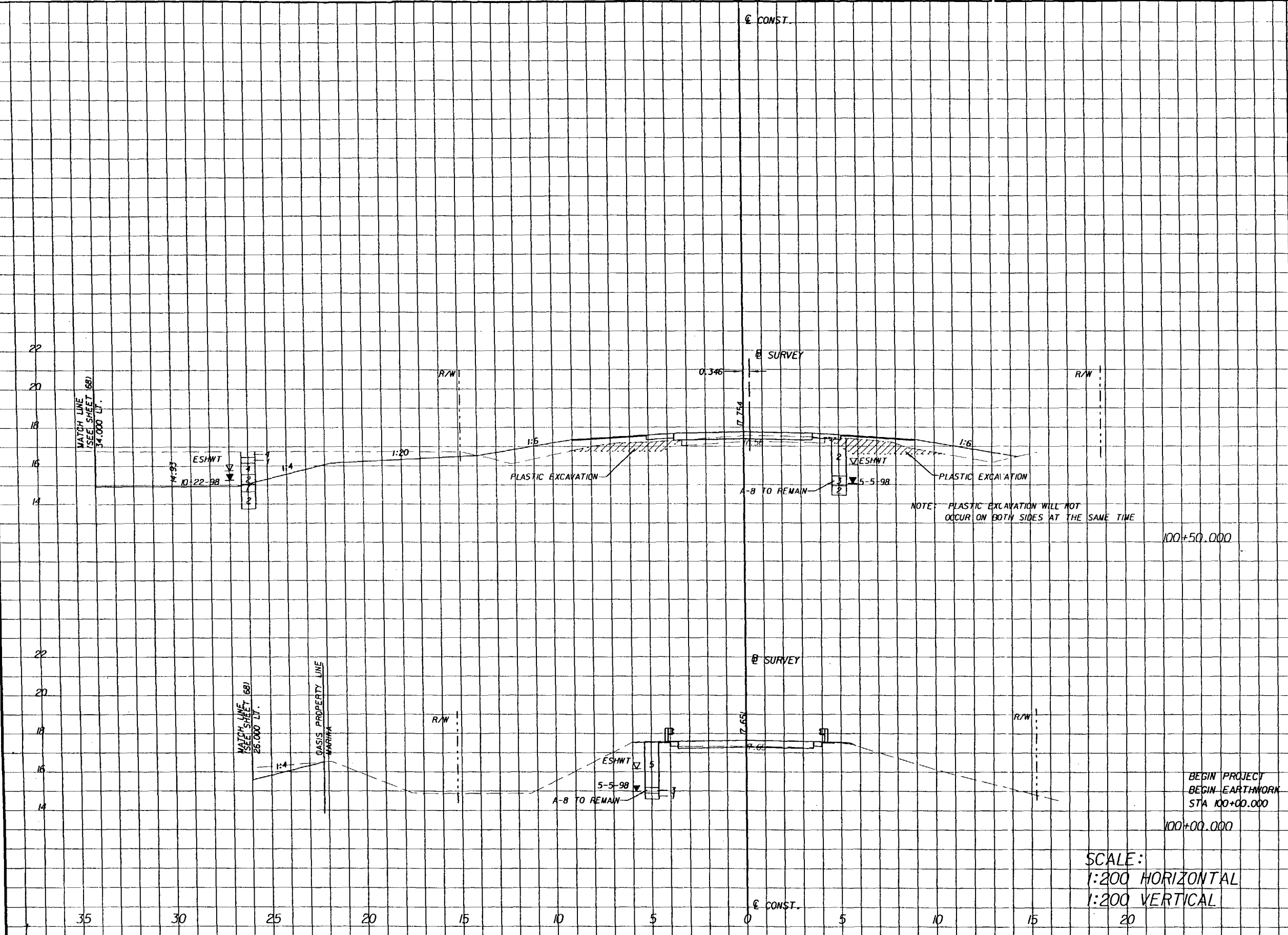
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
S.R.60	OSCEOLA	239718-1-52-01
S.R.60	POLK	197668-1-52-01

MUCK PROBE LOCATION PLAN	SHEET NO.
S.R. 60	
POLK AND OSCEOLA COUNTIES, FLORIDA	39

30 JAN 2001 08:13:51

T Delosus/Highway

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SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
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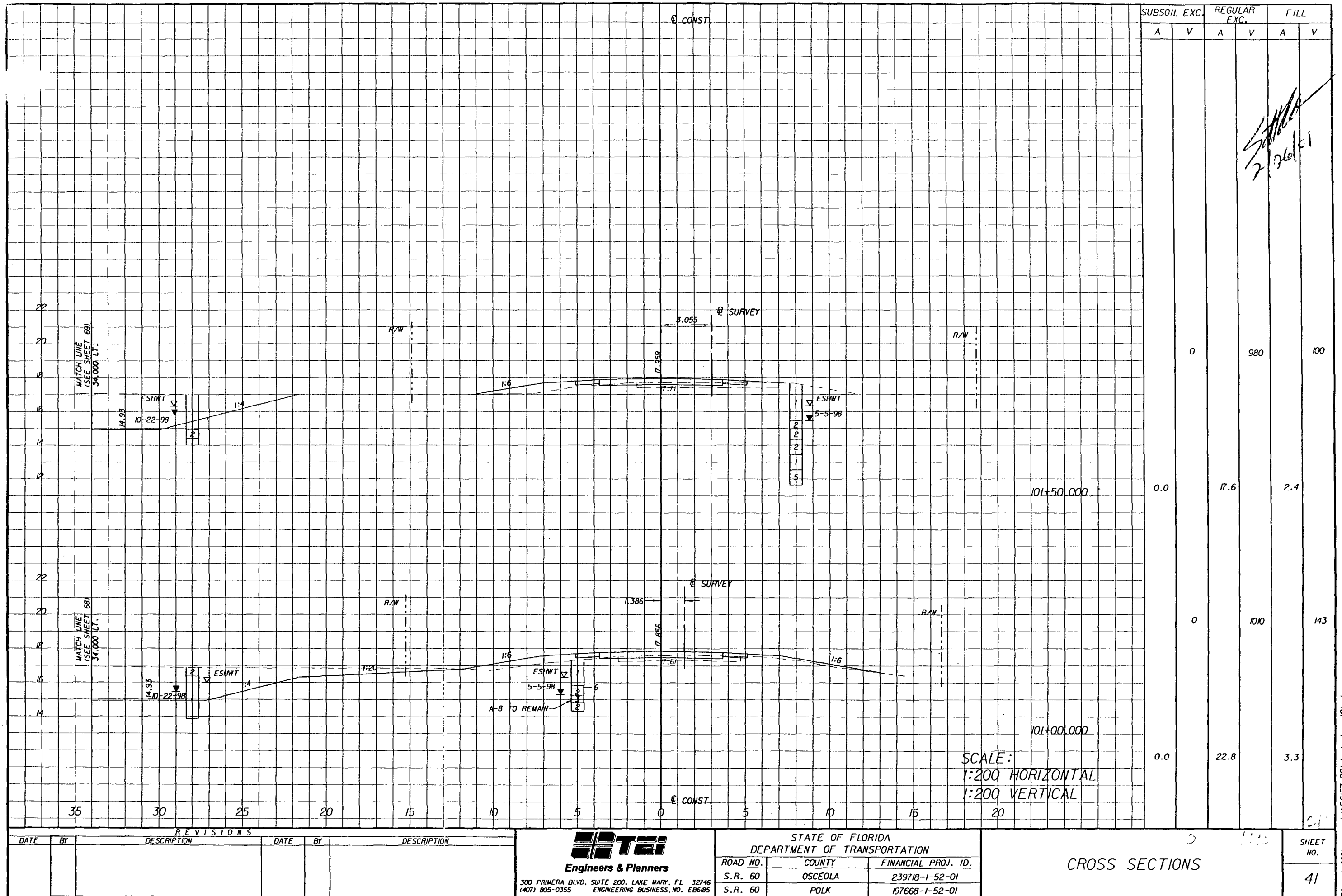
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E06185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			240		1750	CROSS SECTIONS	SHEET NO. 40
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.					
S.R. 60	OSCEOLA	139718-1-52-01					
S.R. 60	POLK	137668-1-52-01					

30 JAN 2001

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04/5/10 04:57 PM



TEI
Engineers & Planners
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB68B5

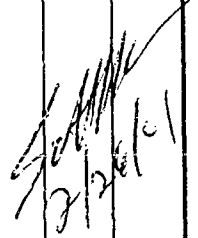
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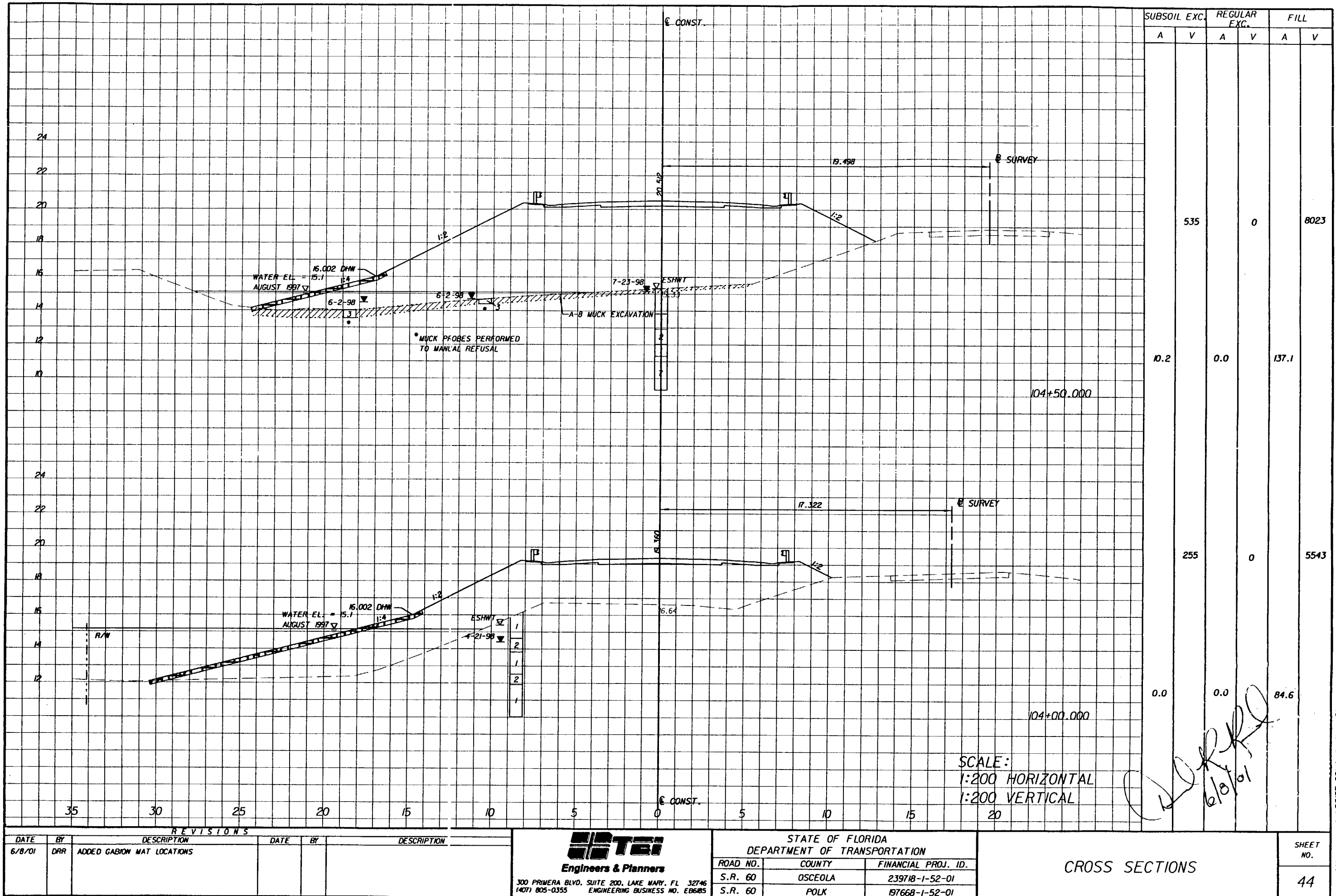
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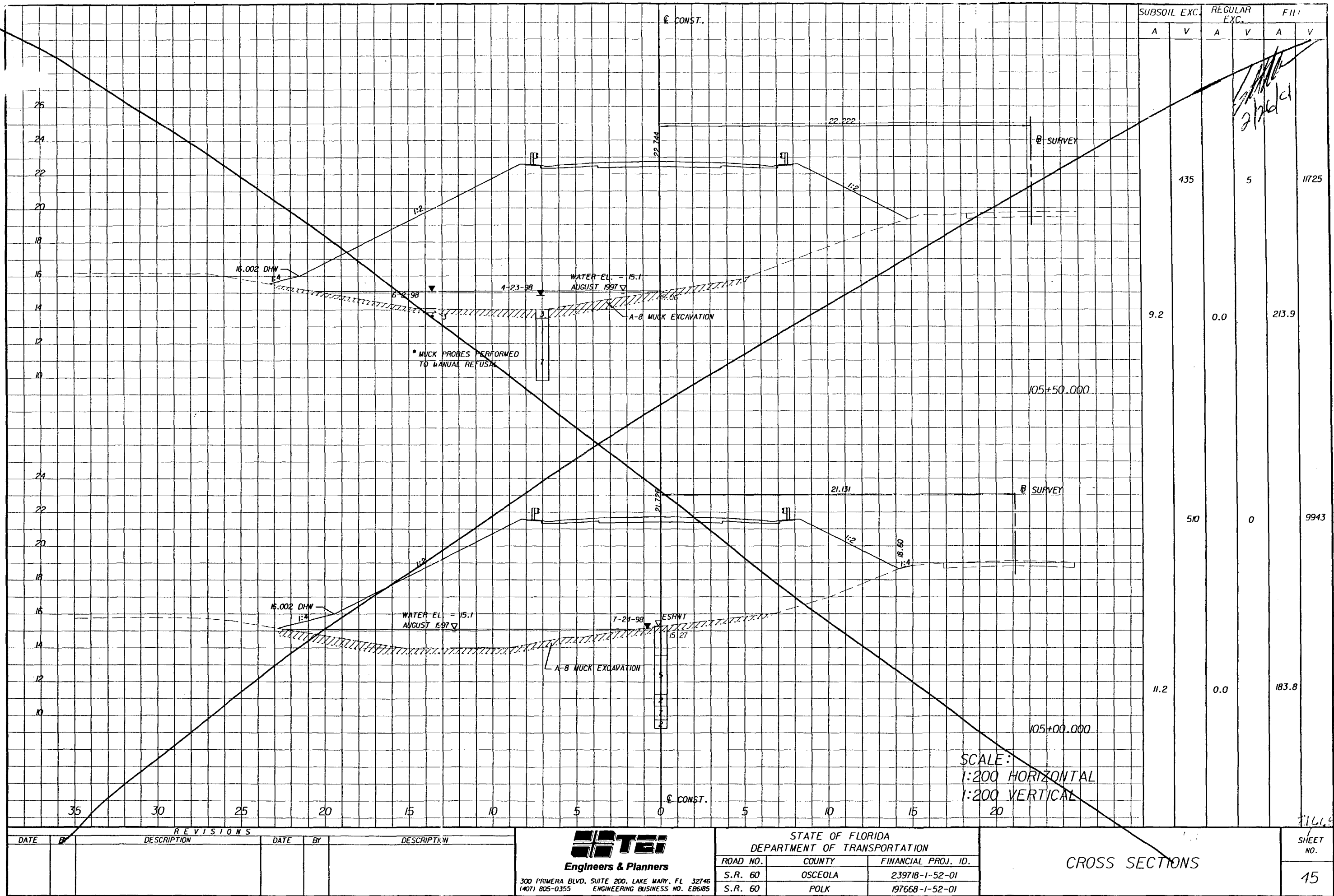
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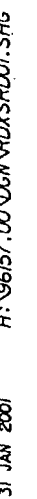
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Engineers & Planners
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E66405

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

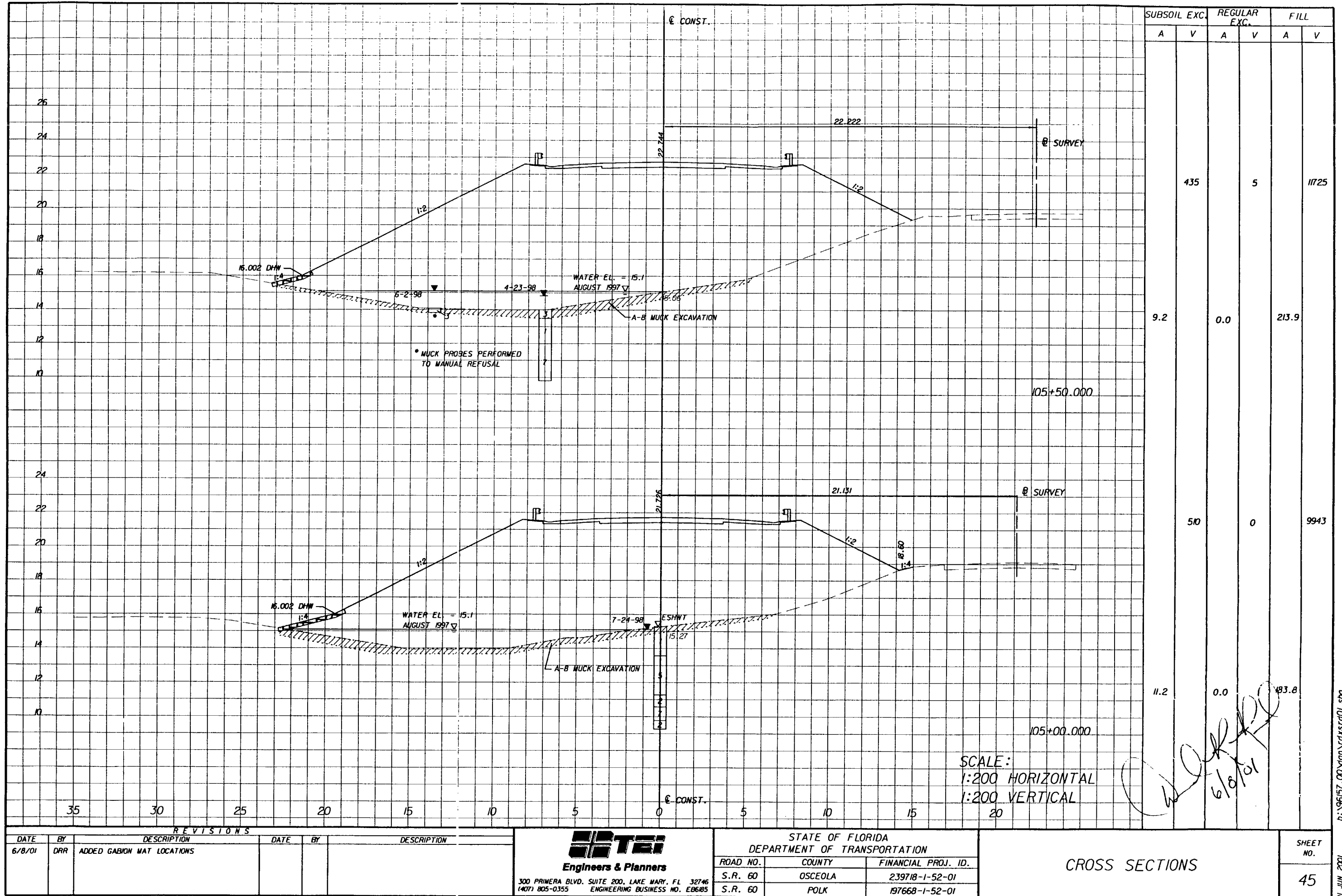
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/8/01	DRR	ADDED GABION MAT LOCATIONS			

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E06485

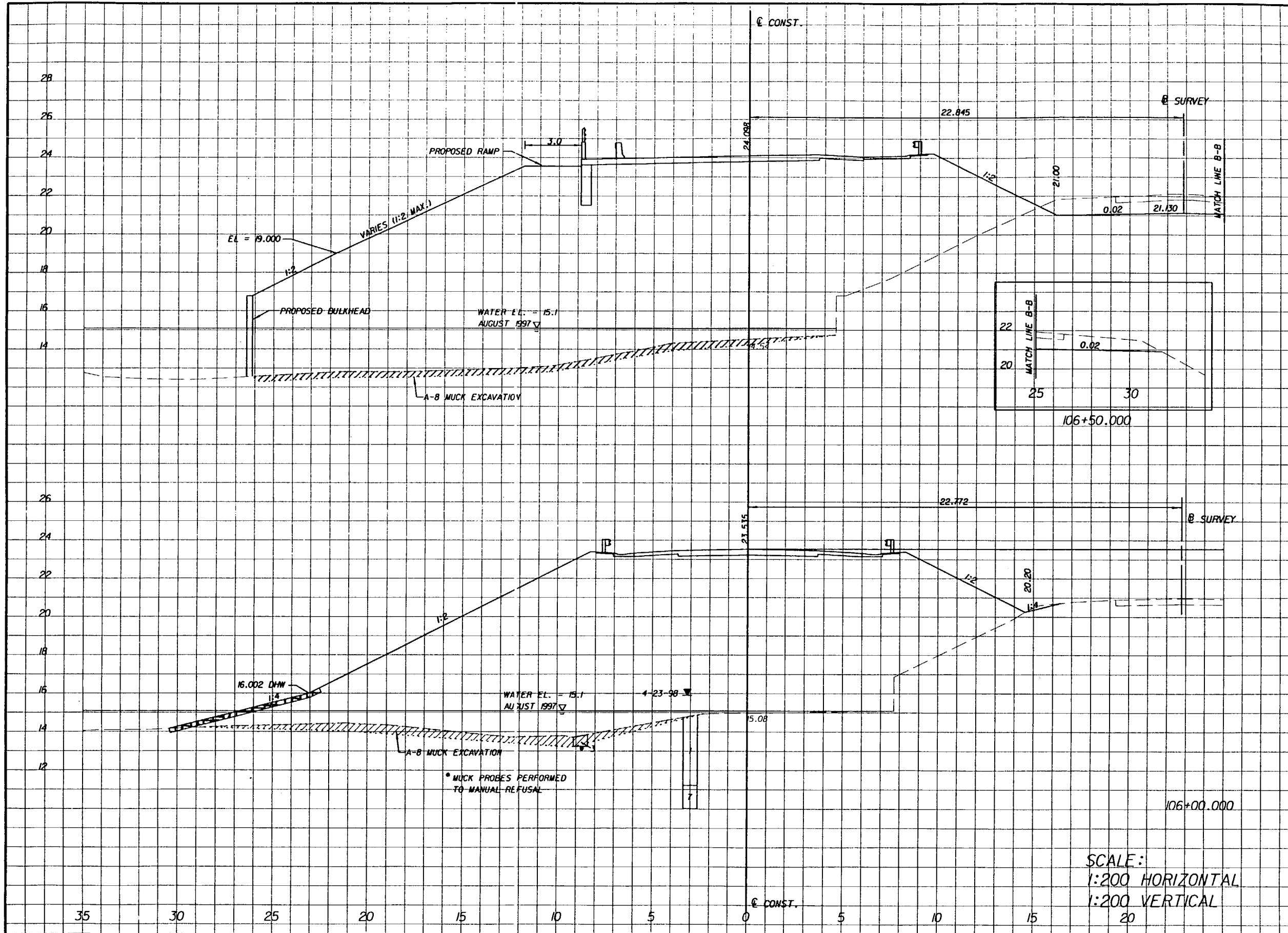
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS		SHEET NO.
		45

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Highway/David Read 11 JUN 2001 08:33:36

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SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	88		320		3220
8.8		12.8		319.1	
8.2		0.2		265.1	
	426		325		14357

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/8/01	DRR	ADDED GABION MAT LOCATIONS			

TEI
Engineers & Planners

300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6485

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

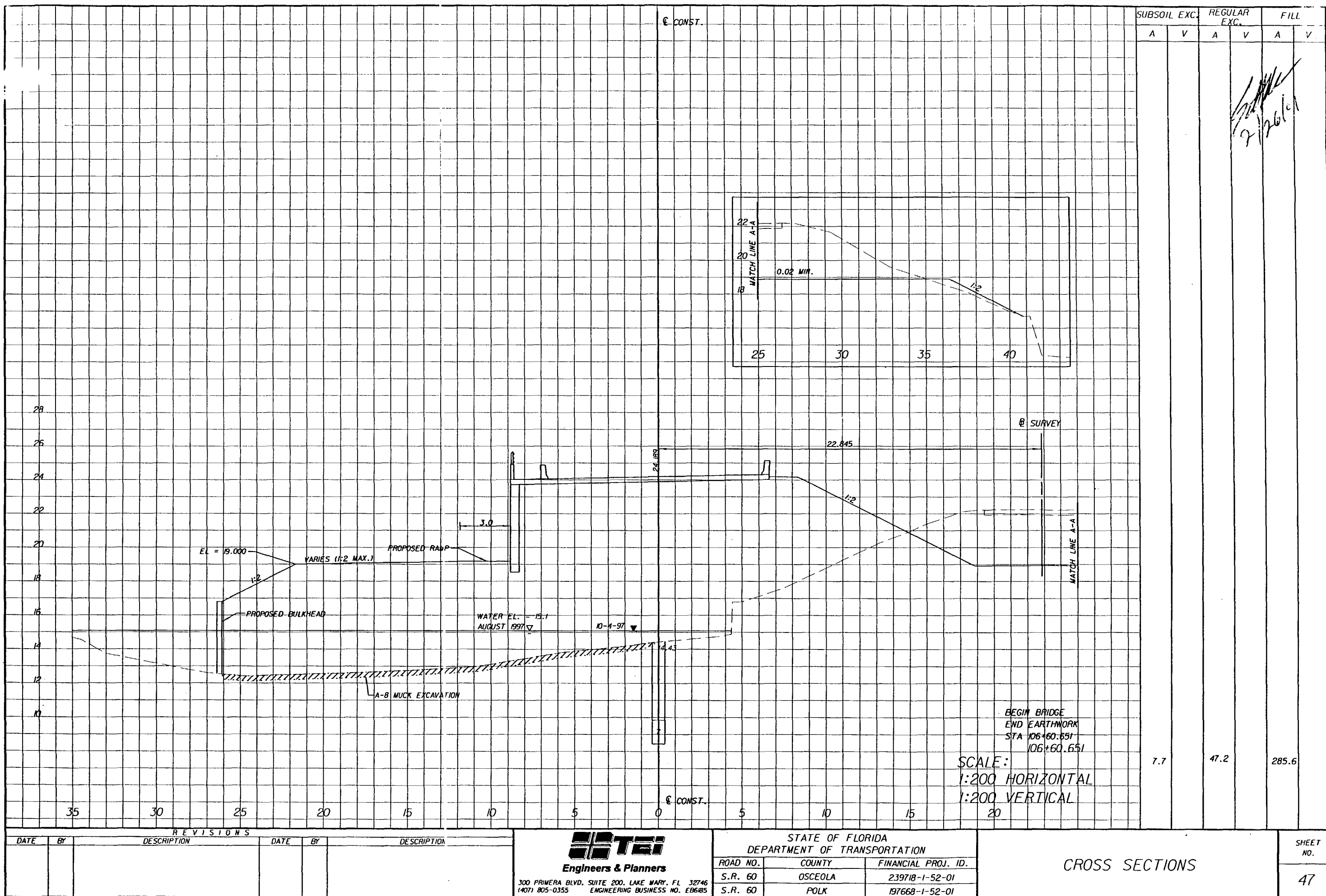
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6/8/01

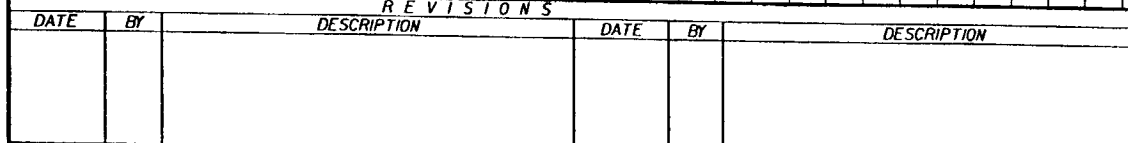
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31 JAN 2001 08:26:47



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300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

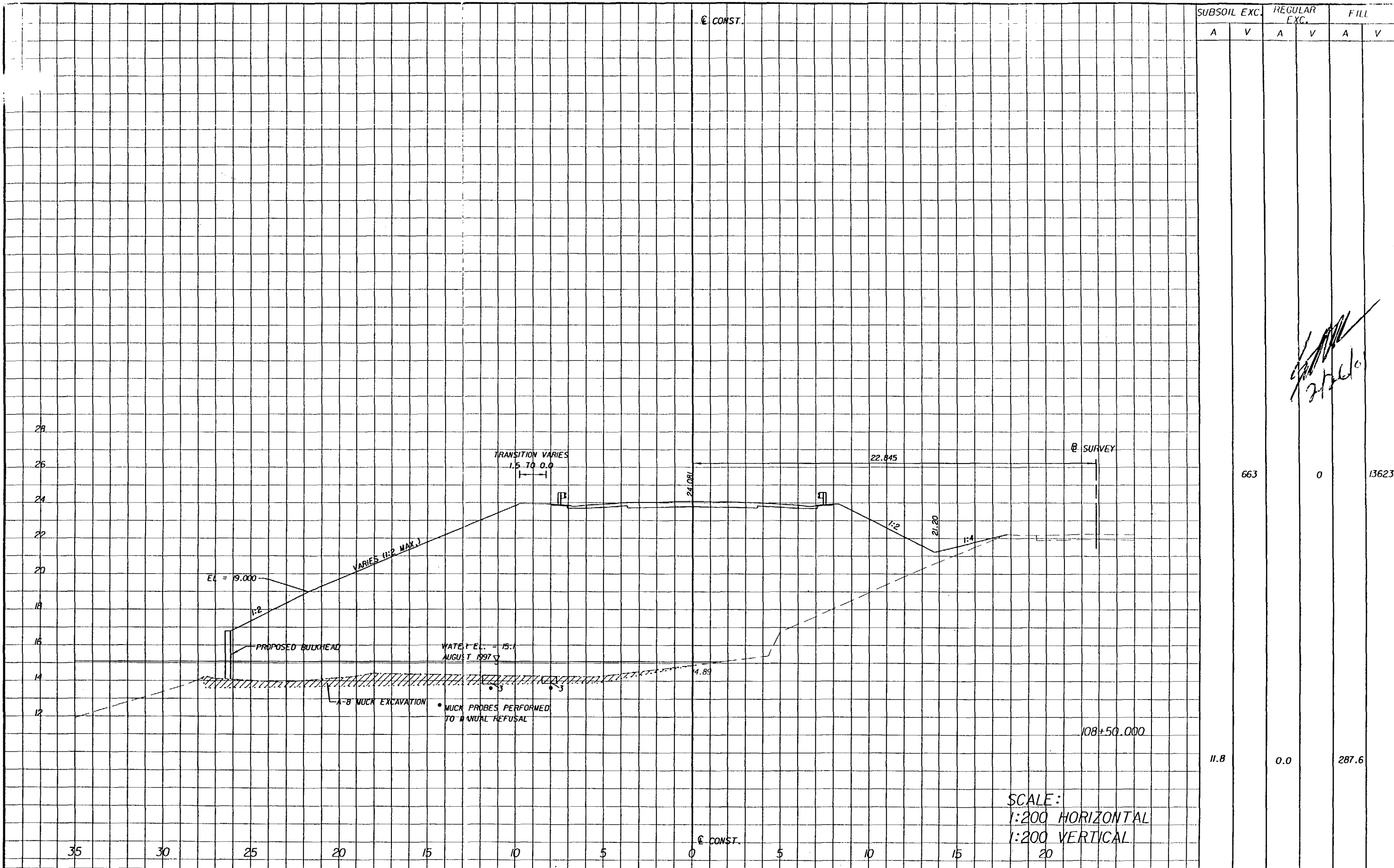
SHEET
NO.
48

SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
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13.0		0.0		255.1	

2/26/21

30 JAN 2001 h:\96157.00\dgn\rdxsr01.shg

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners

300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E06185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS					

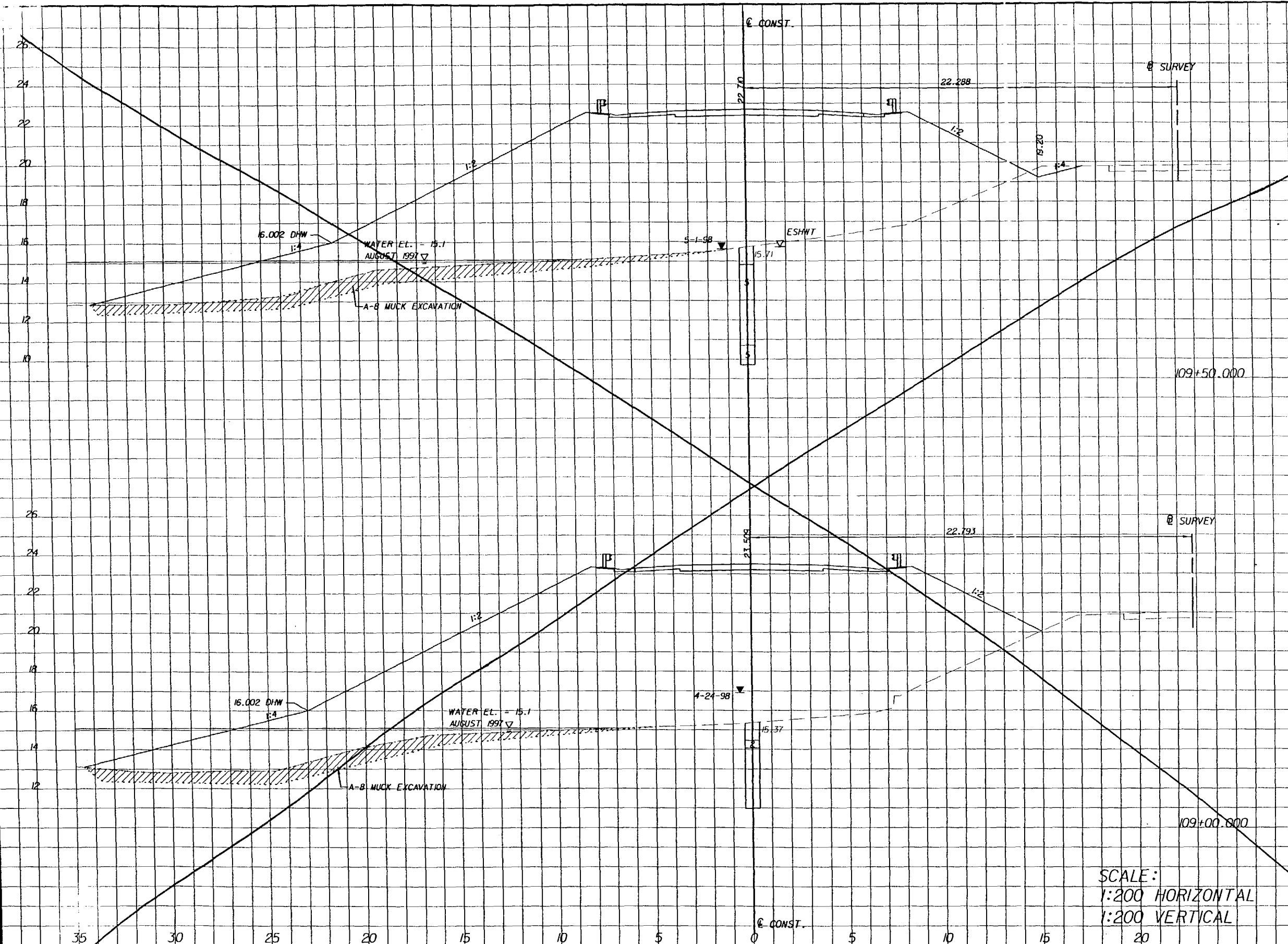
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49

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T DeJesus/Highway

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SCALE:
1:200 HORIZONTAL
1:200 VERTICAL

SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	515	40		9245	
16.1		0.7		27.8	
	770	18		11878	
14.7		0.0		257.3	

REVISIONS			
DATE	BY	DESCRIPTION	

DATE	BY	DESCRIPTION

TEI
Engineers & Planners
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E06185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	137668-1-52-01

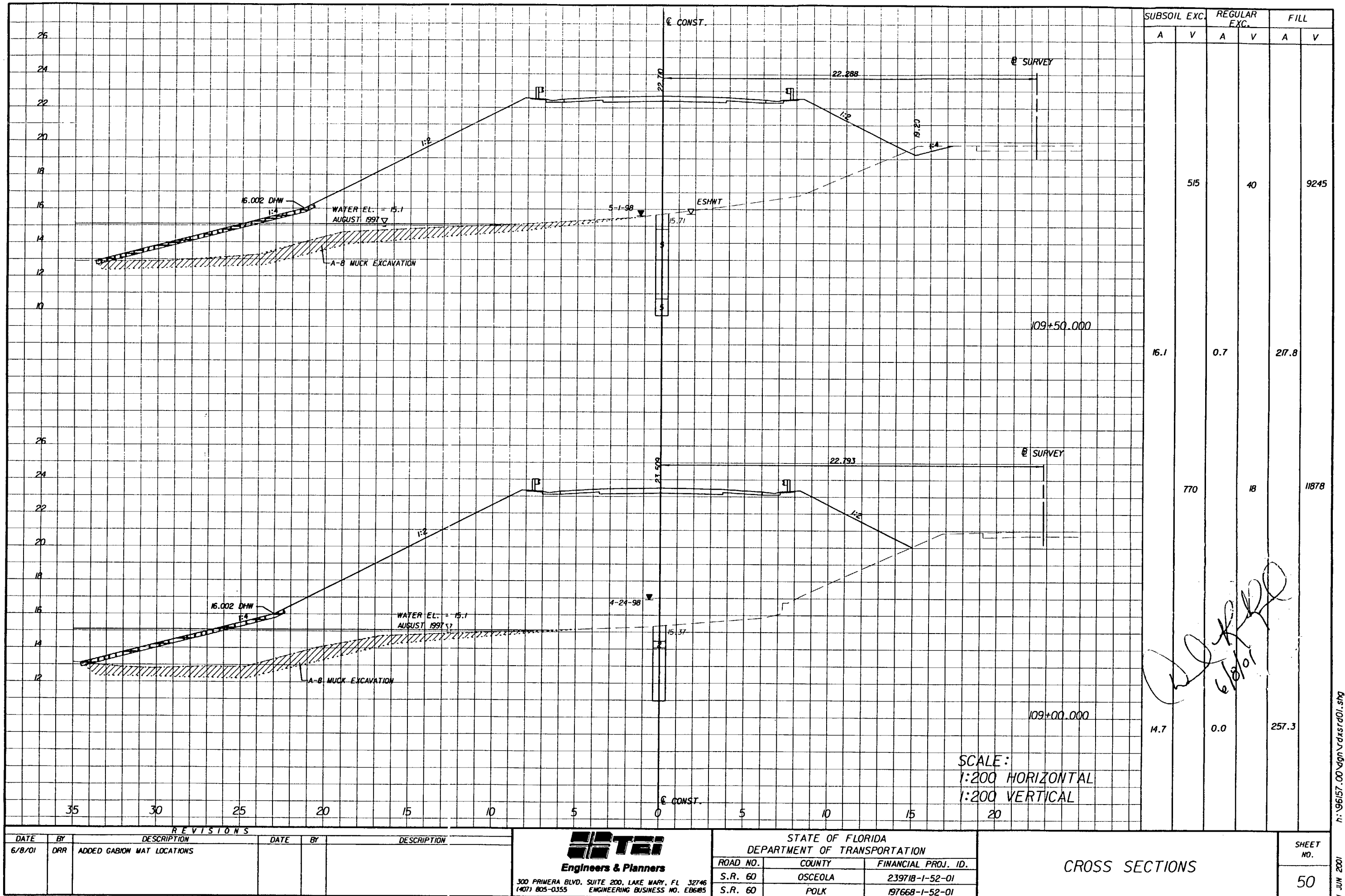
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SHEET NO.
50

30 JAN 2001

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Highway/David Reed 11 JUN 2001 08:34:00

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11 JUN 2001

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/8/01	DRR	ADDED GABION MAT LOCATIONS			

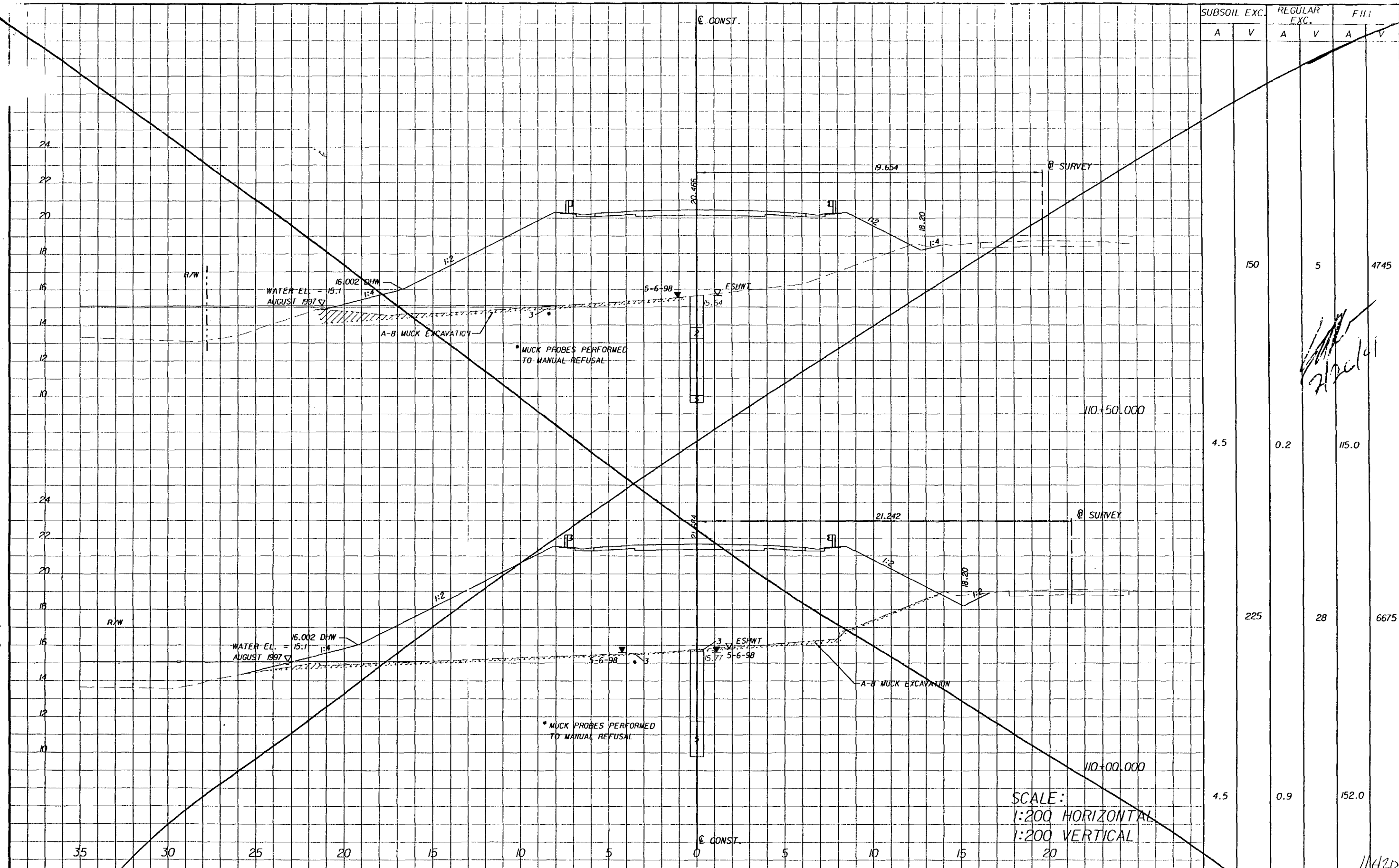
ETI
Engineers & Planners
300 PRIMA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB605

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS	

SHEET NO.
50

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SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	150		5		4745
4.5		0.2		115.0	
	225		28		6675
4.5		0.9		152.0	

Handwritten signature and date: 2/26/01

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE HAWY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

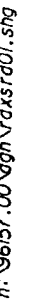
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS

SHEET NO.
51

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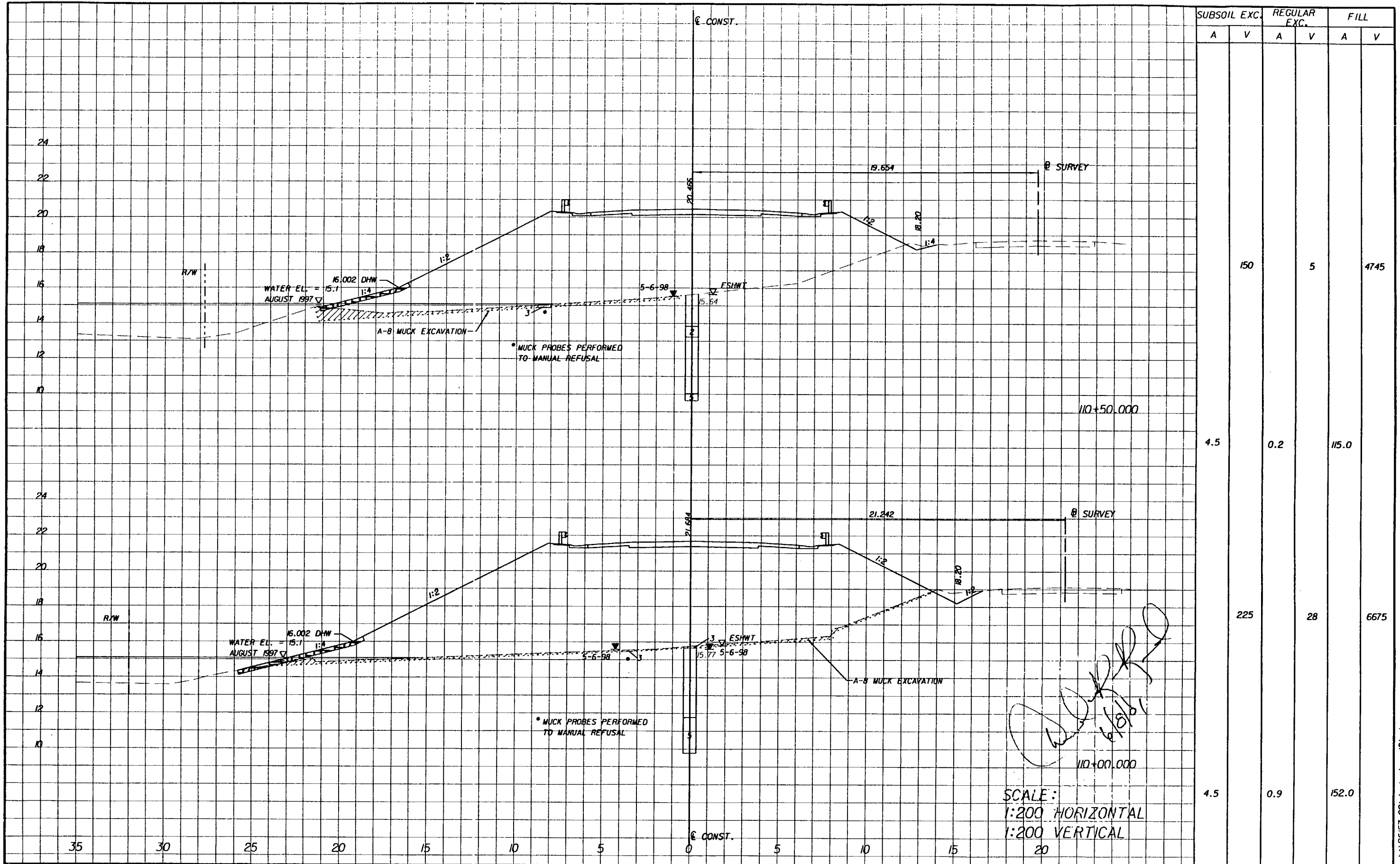
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SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	150		5		4745
4.5		0.2		115.0	
	225		28		6675
4.5		0.9		152.0	

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
6/8/01	DRR	ADDED GABION MAT LOCATIONS					

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

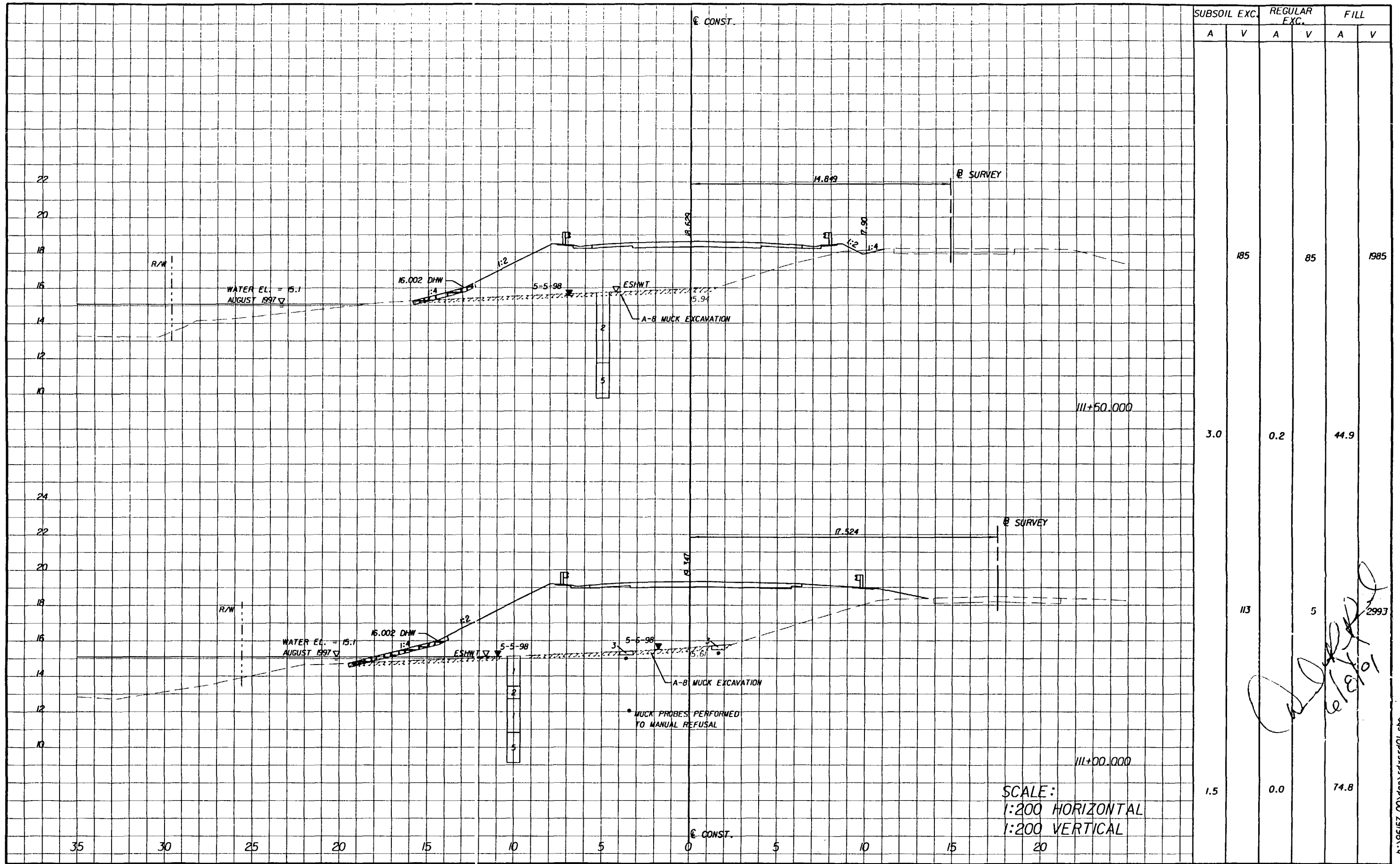
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SHEET NO. 51

11 JUN 2001

Highway/David Reed 11 JUN 2001 08:34:26

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SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	185		85		1985
3.0		0.2		44.9	
	113		5		2993
1.5		0.0		74.8	

SCALE:
1:200 HORIZONTAL
1:200 VERTICAL

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6/8/01

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/8/01	DRR	ADDED GABION MAT LOCATIONS			

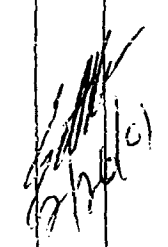
ET&P
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS		SHEET NO.
		52

11 JUN 2001

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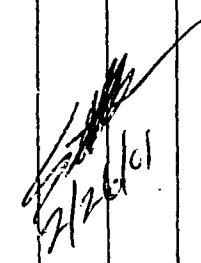
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJ. ID.		
						S.R. 60	OSCEOLA	239718-1-52-01		
						S.R. 60	POLK	197668-1-52-01		



Engineers & Planners

300 PRIMA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355
ENGINEERING BUSINESS NO. E06185

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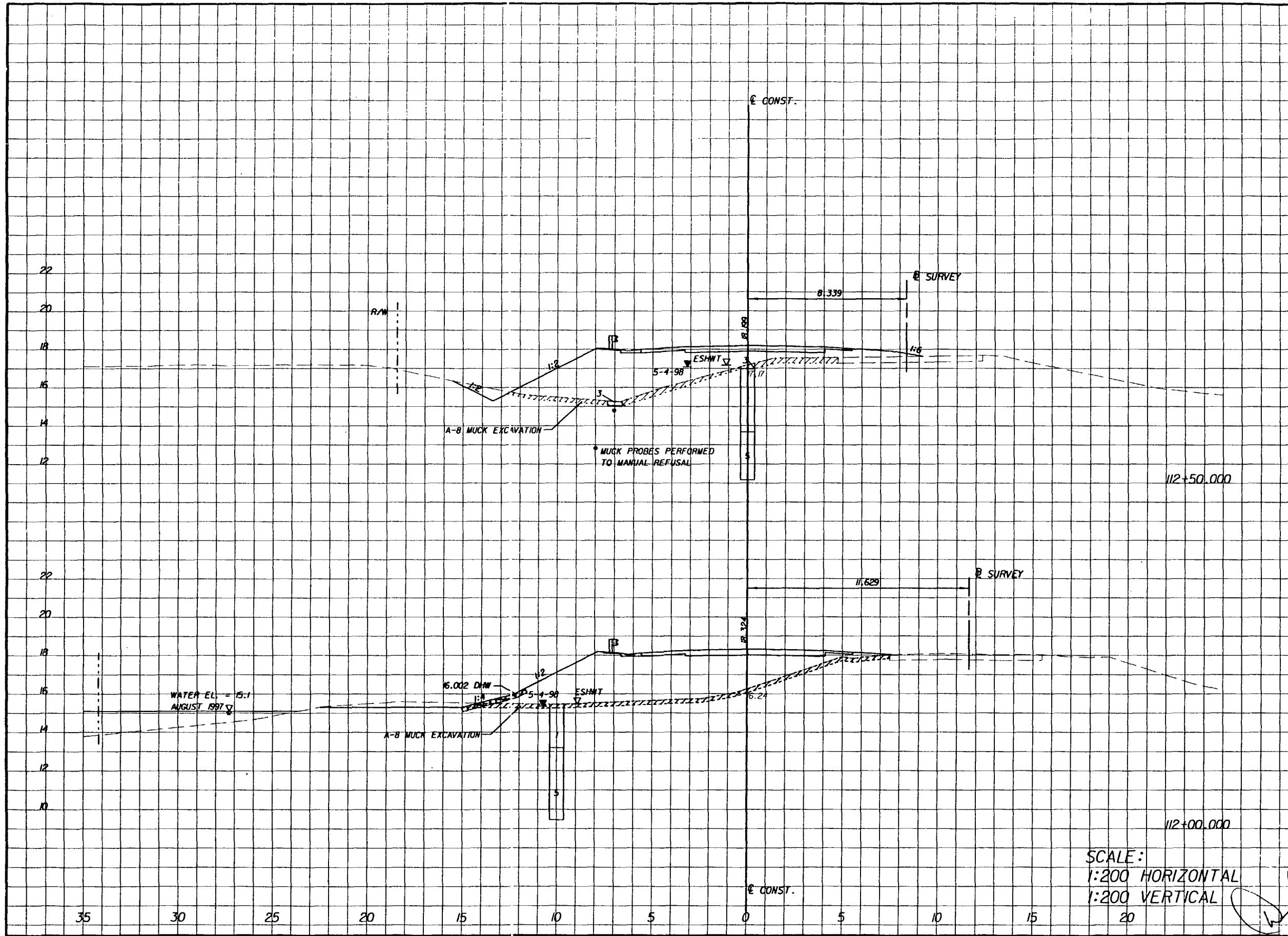


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Highway/David Reed 11 JUN 2001 08:34:40

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SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	208	40		1398	
4.0		1.0		29.5	
	210	105		1550	
4.4		3.2		34.5	

SCALE:
1:200 HORIZONTAL
1:200 VERTICAL

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6/9/01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/8/01	DRR	ADDED GABION MAT LOCATIONS			

ET&P
Engineers & Planners
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E6685

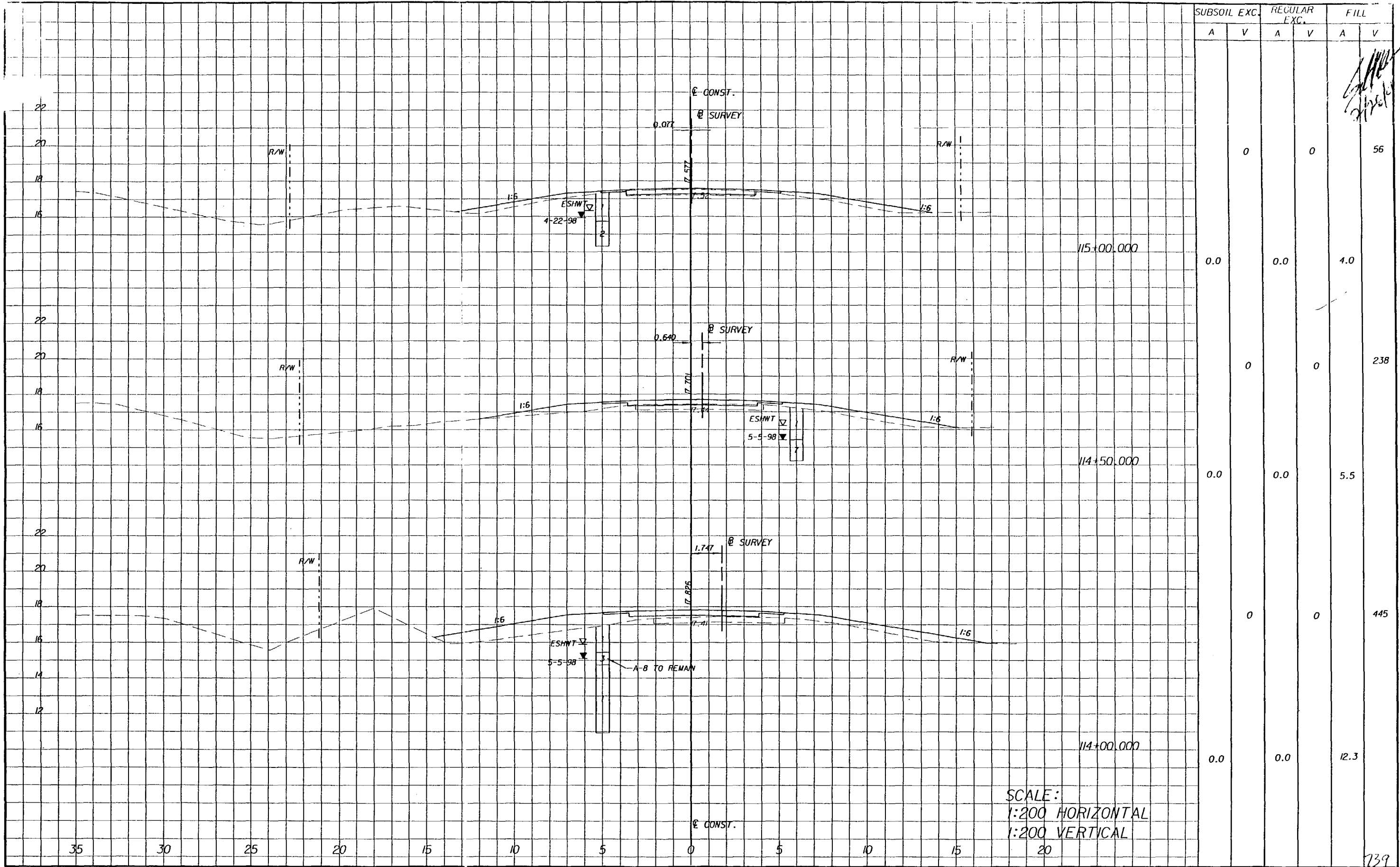
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS

SHEET NO.
53

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h:\96157.00\gn\rdxstd01.sng 30 JAN 2001 08:20:03 T DeJesus/Highway




SCALE:
1:200 HORIZONTAL
1:200 VERTICAL

SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
	0		0		56
0.0		0.0		4.0	
0		0		238	
0.0		0.0		5.5	
0		0		445	
0.0		0.0		12.3	

739
SHEET NO.
55
30 JAN 2001

REVISIONS			
DATE	BY	DESCRIPTION	



Engineers & Planners

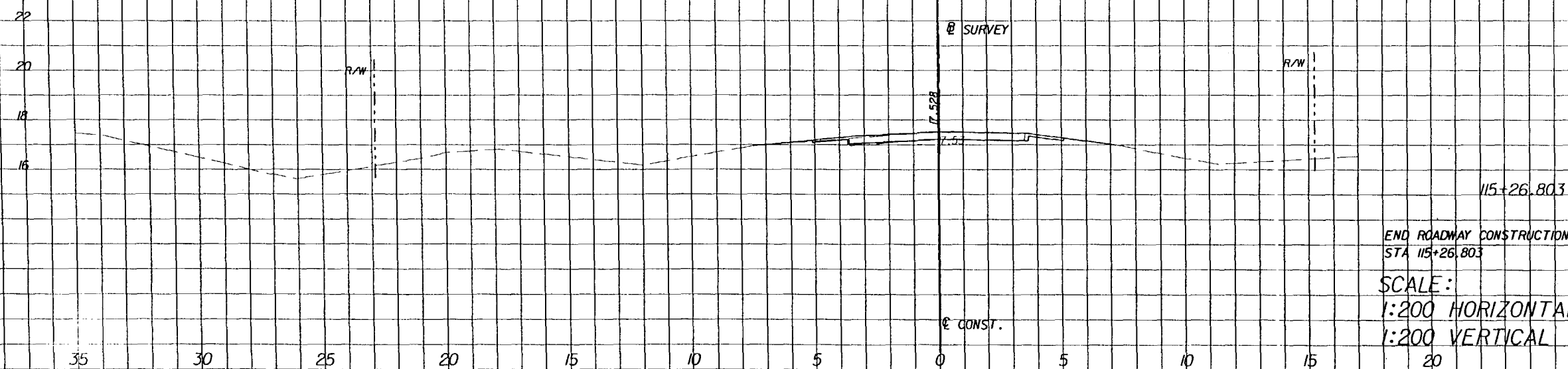
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS

h:\96\57.00\van\rdxsrd01.shg

S.R. 60 SUMMARY OF EARTHWORK		
DESCRIPTION	P M3	F M3
S.R. 60 FILL	117 086	
S.R. 60 REGULAR EXCAVATION	6 632	
S.R. 60 SUBSOIL EXCAVATION	5 921	



SUBSOIL EXC.		REGULAR EXC.		FILL	
A	V	A	V	A	V
0.0		0.0		0.2	

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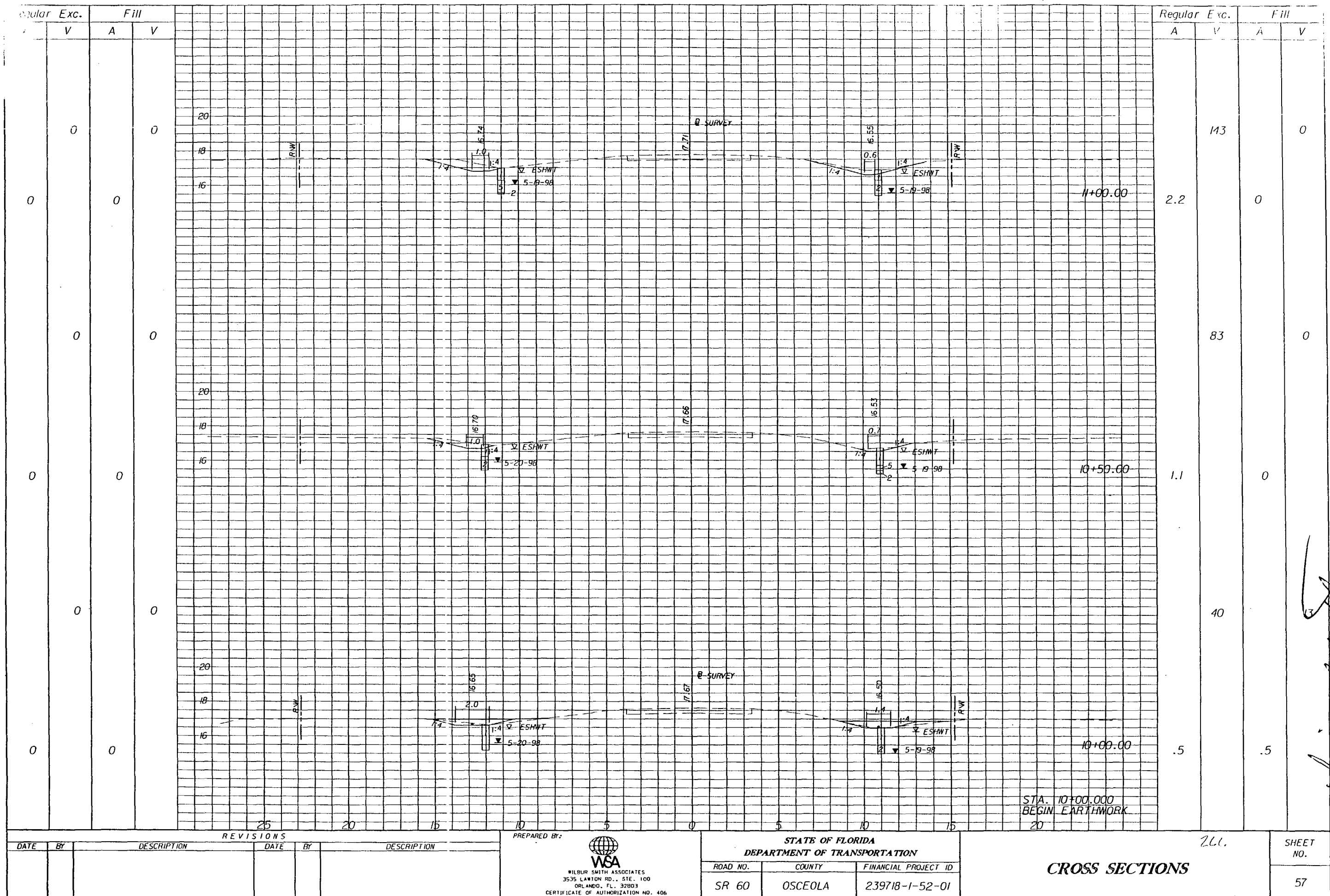
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

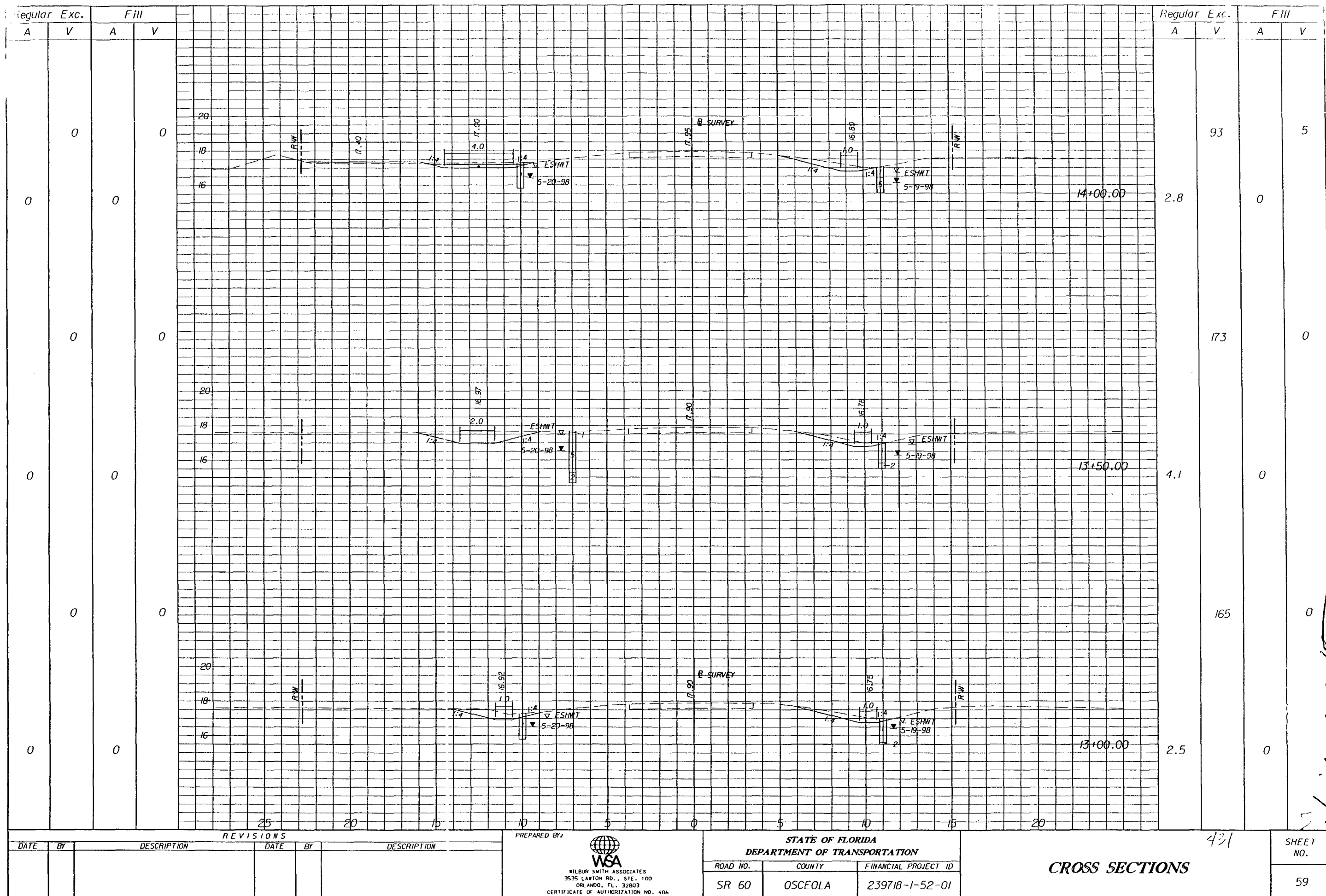
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

CROSS SECTIONS

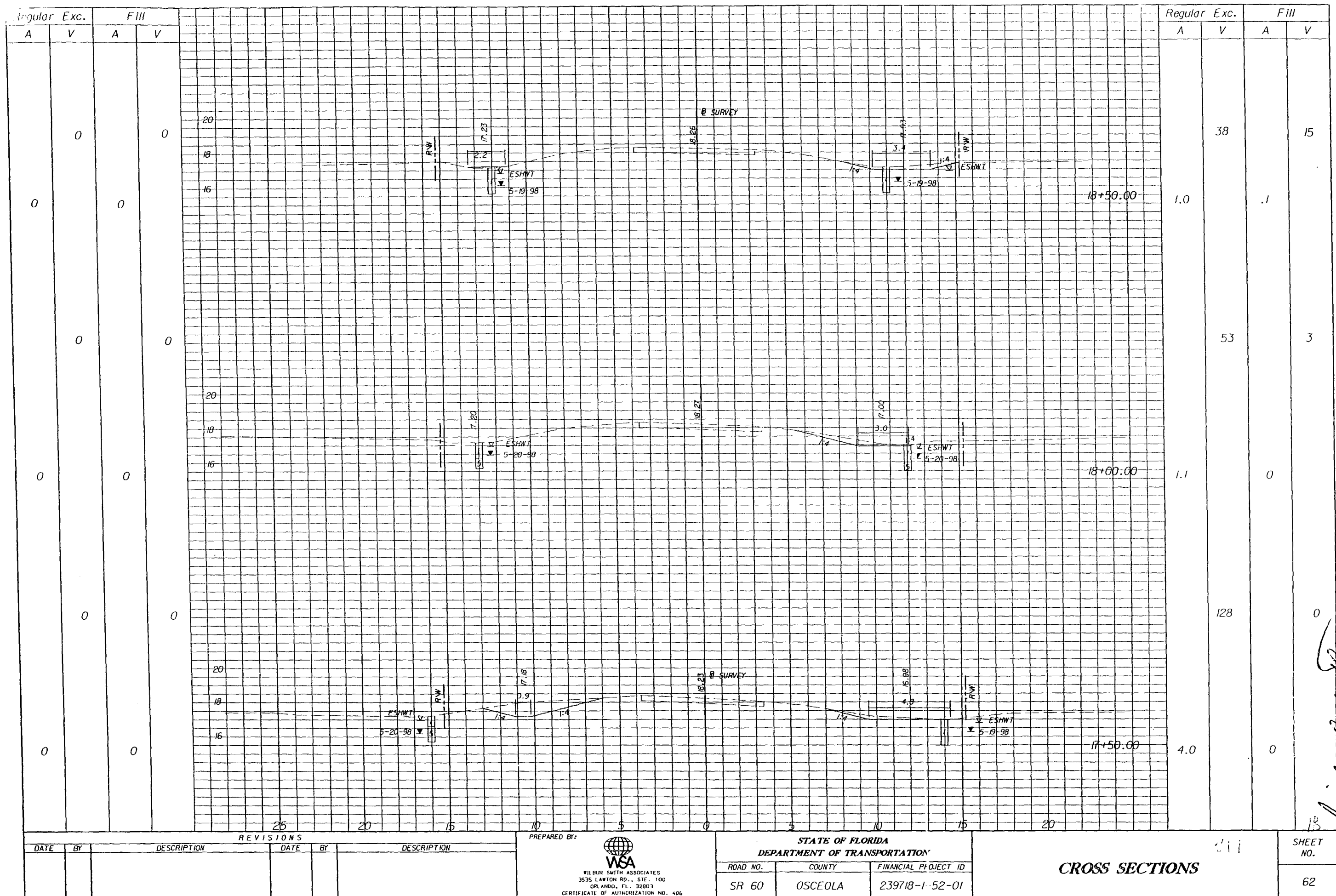
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56

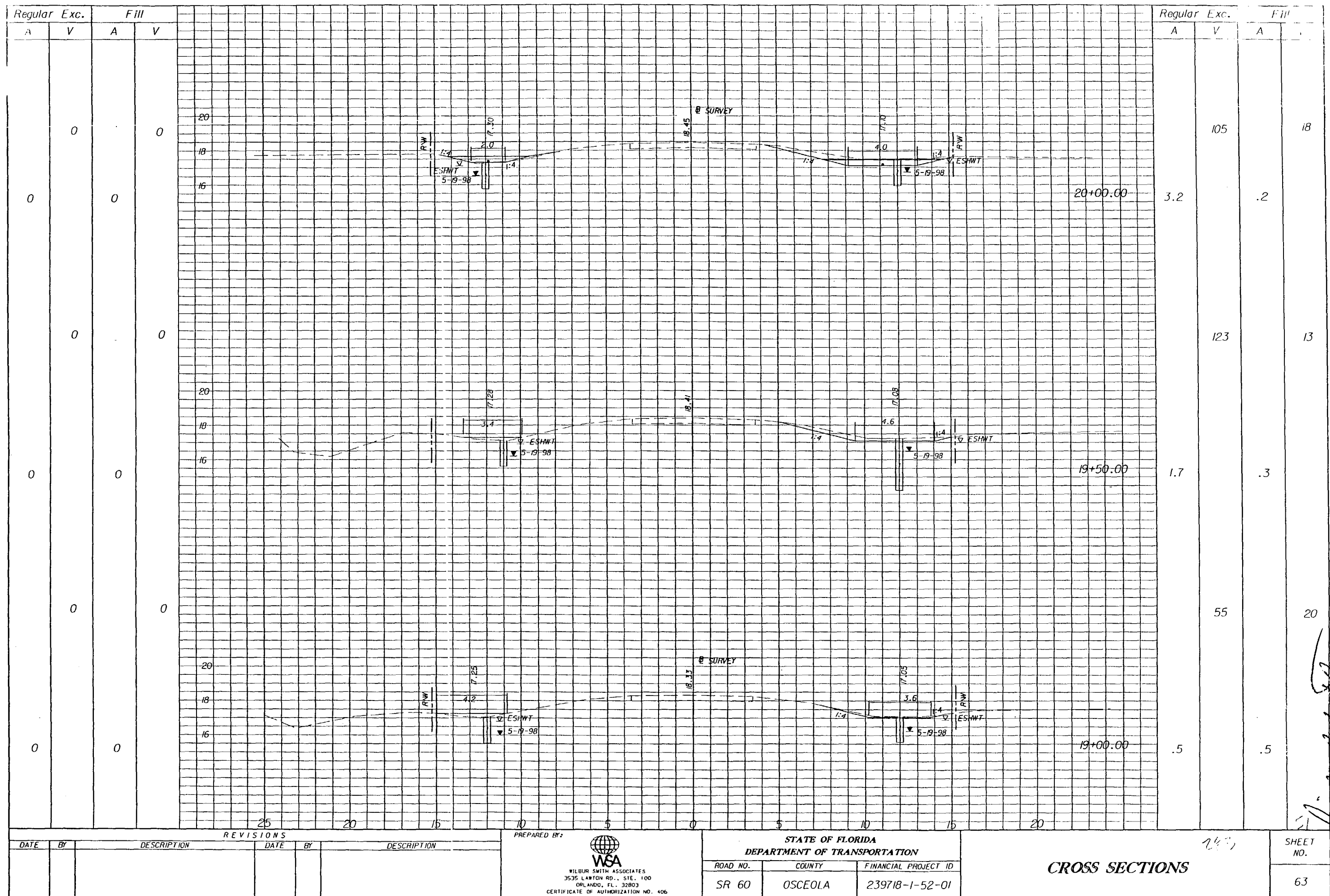
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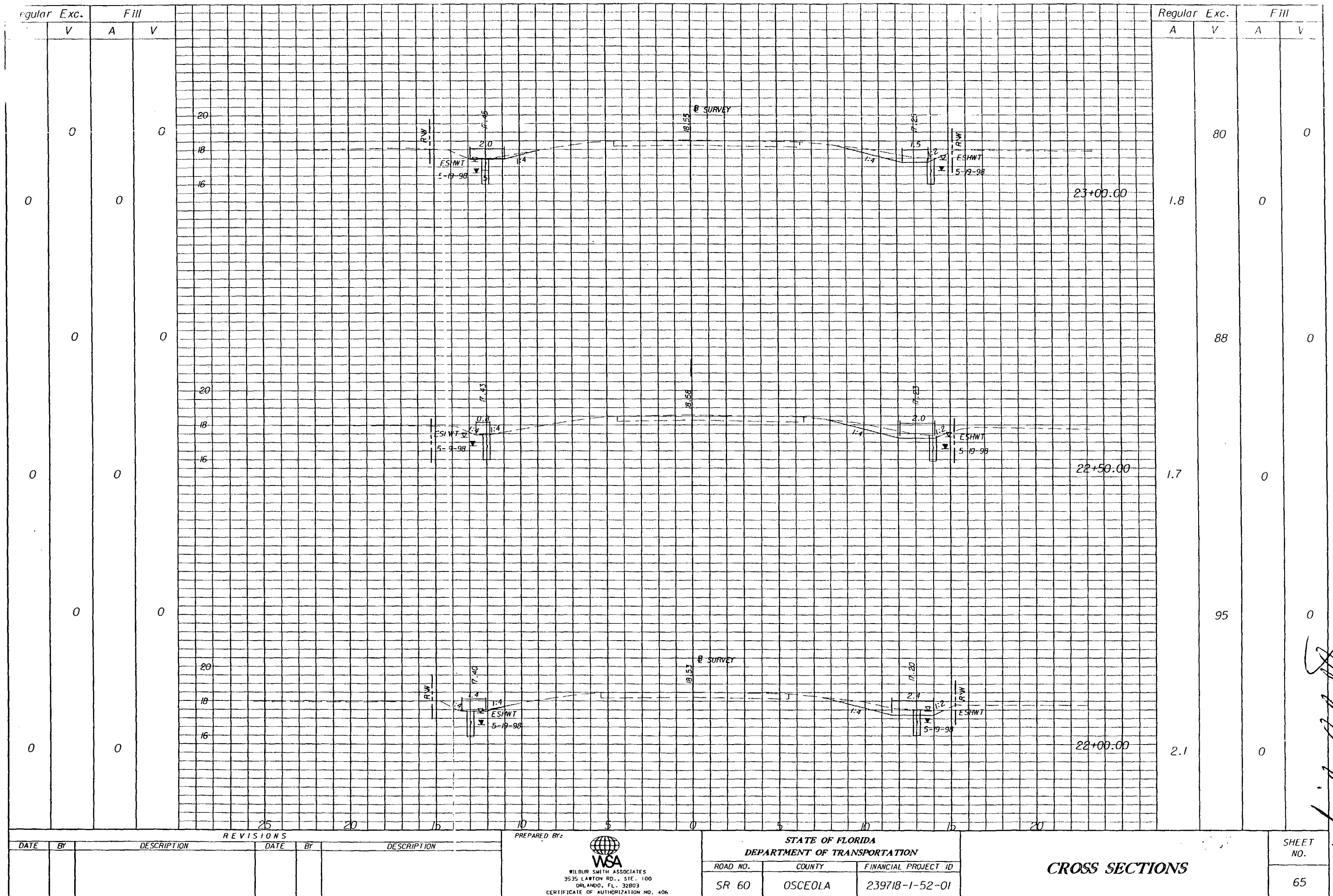


Michael J. Starnes
2/23/01

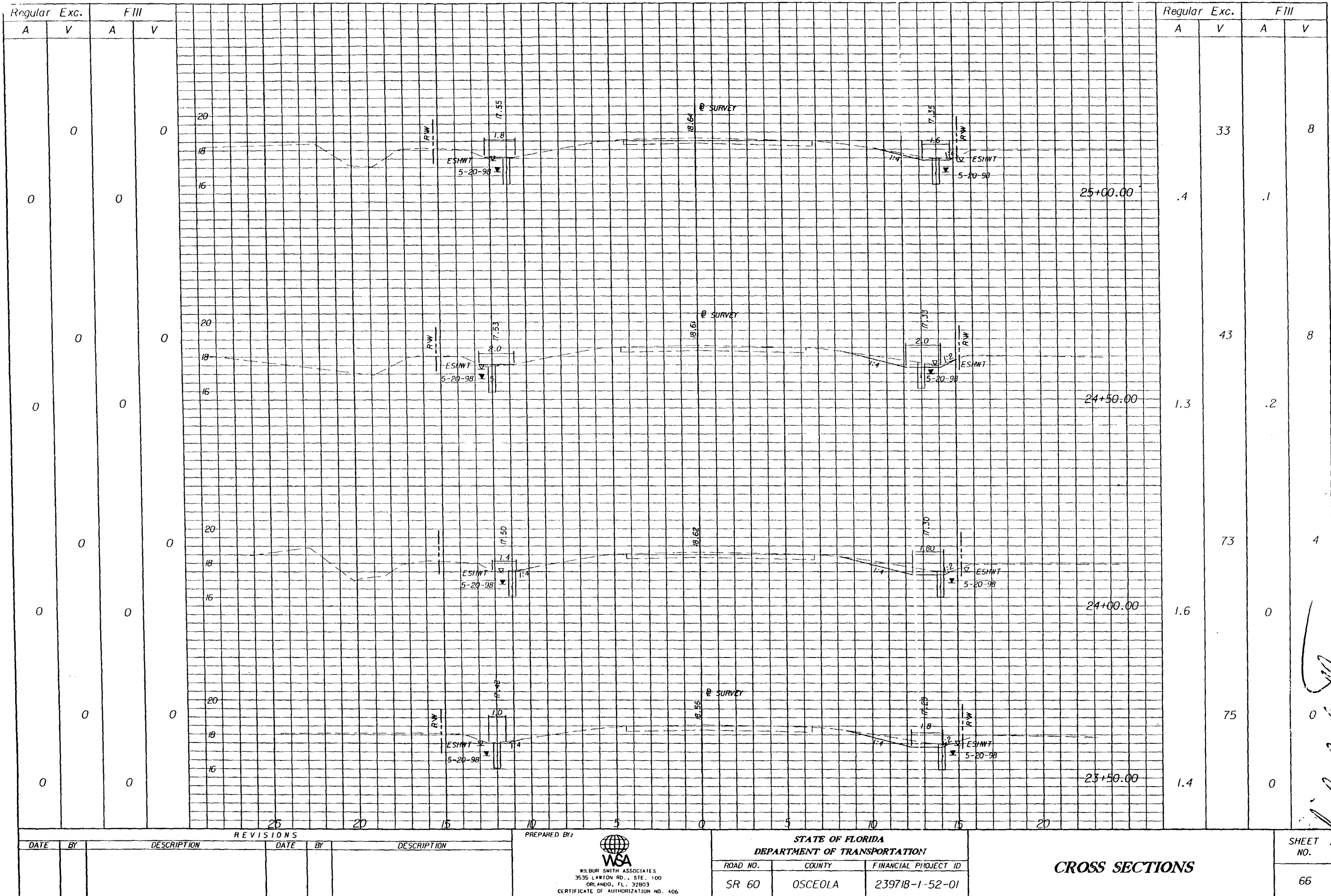





Michael J. Stevens
2/23/01



Andrew J. Stevens
 2/23/01



REVISIONS				REVISIONS			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

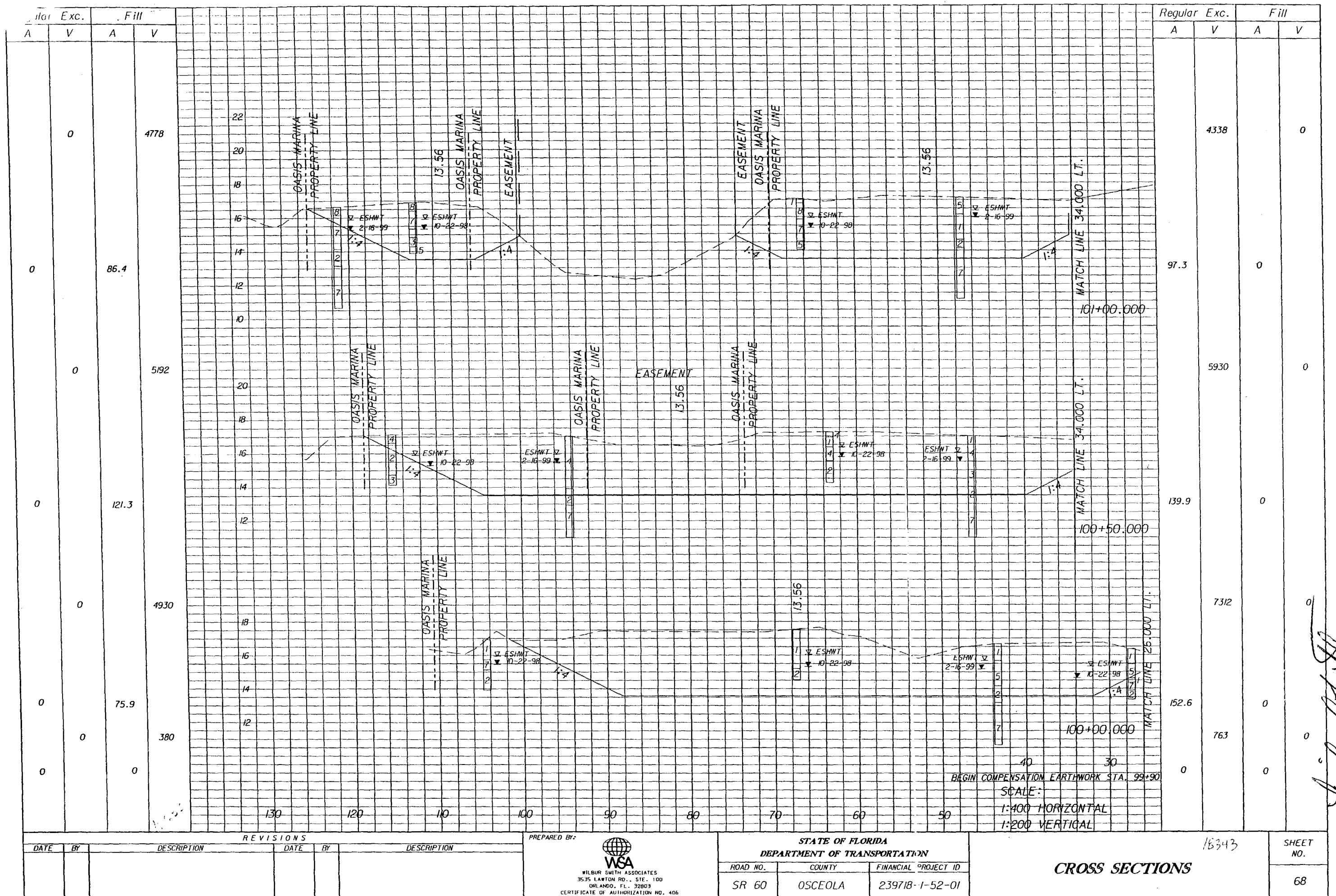
PREPARED BY:

WILBUR SMITH ASSOCIATES
3535 LAWTON RD., STE. 100
ORLANDO, FL. 32803
CERTIFICATE OF AUTHORIZATION NO. 406

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 60	OSCEOLA	239718-1-52-01

CROSS SECTIONS

SHEET NO.
66

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10/23/01
2/23/01

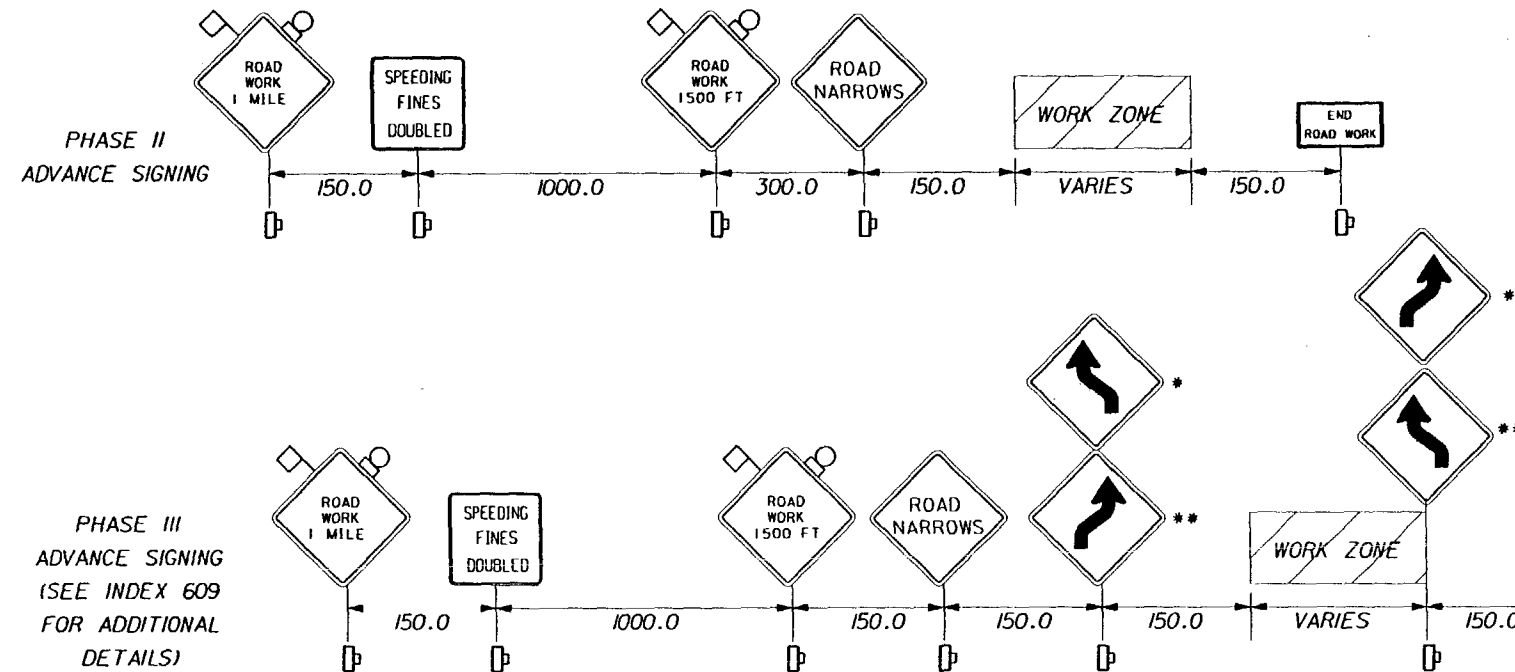
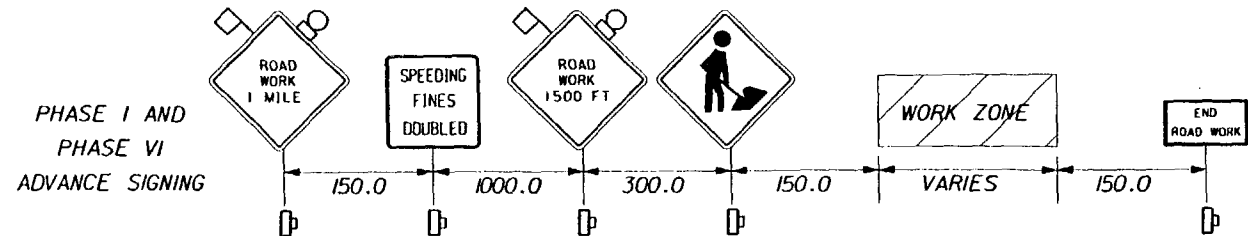


Richard L. Stearns
2/23/01

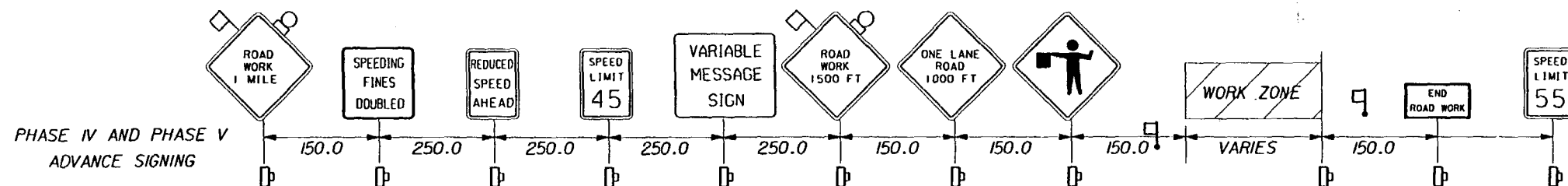
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T DeJesus/Highway

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* WESTBOUND SIGNAGE
** EASTBOUND SIGNAGE



TRAFFIC CONTROL PLAN GENERAL NOTES

1. THERE ARE NO TIME RESTRICTIONS TO LANE CLOSURES, HOWEVER, A LANE MAY BE CLOSED ONLY DURING ACTIVE WORK PERIODS. WORK ON ONLY ONE SIDE AT A TIME.
2. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 600 SERIES.
3. SIGNS SHALL BE POSTED AT ALL BOAT RAMPS IN THE VICINITY OF THE BRIDGE STATING THAT BRIDGE CONSTRUCTION MAY DELAY BOAT TRAFFIC.
4. OFF DUTY LAW ENFORCEMENT OFFICERS SHALL BE USED FOR ALL FLAGGING OPERATIONS AND PHASES WHERE LANE WIDTHS ARE REDUCED TO 3.0 M.
5. ALL TEMPORARY CRASH CUSHIONS SHALL BE REDIRECTIVE TYPE.

VMS MESSAGES

PHASE IV AND PHASE V WESTBOUND AND EASTBOUND

MESSAGE 1
FLAGMAN
AHEAD

MESSAGE 2
PREPARE
TO
STOP

GENERAL PHASING NOTES

PHASE I

1. INSTALL ADVANCE WARNING SIGNING FOR EASTBOUND AND WESTBOUND DIRECTIONS.
2. MAINTAIN TRAFFIC ACCORDING TO INDEX 602.
3. CONSTRUCT BRIDGE AND MAINLINE ROADWAY FROM STA. 103+75.00 & CONSTRUCTION TO STA. 110+00 & CONSTRUCTION.

PHASE II

1. INSTALL ADVANCE WARNING SIGNING FOR EASTBOUND AND WESTBOUND DIRECTIONS.
2. INSTALL REQUIRED TRAFFIC CONTROL DEVICES AS SHOWN ON PHASE II TYPICALS.
3. MAINTAIN TRAFFIC ACCORDING TO PHASE II TYPICALS.
4. REMOVE EXISTING GUARDRAIL STA. 403+92.105 TO STA. 407+59.883 AND STA. 5+62.89 TO 6+89.83 @ SURVEY.
5. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON TRAFFIC CONTROL PLAN SHEETS.

PHASE III

1. INSTALL ADVANCE WARNING SIGNING FOR EASTBOUND AND WESTBOUND DIRECTIONS.
2. INSTALL REQUIRED TRAFFIC CONTROL DEVICES AS SHOWN ON PHASE III TYPICALS.
3. MAINTAIN TRAFFIC ACCORDING TO PHASE III TYPICALS.
4. SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT.
5. CONSTRUCT ROADWAY FROM STA. 102+00.00 & CONSTRUCTION TO STA. 103+75.00 & CONSTRUCTION.
6. CONSTRUCT ROADWAY FROM STA. 110+00 TO END OF PROJECT EXCEPT FOR RIGHT OUTSIDE SHOULDER FROM 111+96.52 TO THE END OF PROJECT.

PHASE IV

1. INSTALL ADVANCE WARNING SIGNING FOR EASTBOUND AND WESTBOUND DIRECTIONS.
2. INSTALL REQUIRED TRAFFIC CONTROL DEVICES AS SHOWN ON PHASE IV TYPICALS.
3. MAINTAIN TRAFFIC ACCORDING TO PHASE IV TYPICALS.
4. UTILIZING FLAGGERS, DIRECT BOTH LANES OF TRAFFIC TO EASTBOUND LANE FROM STA. 100+00.00 TO STA. 102+00.00 ONLY.
5. CONSTRUCT TEMPORARY CURB FROM STATION 403+94 TO STA. 405+50 @ SURVEY.
6. CLEAR AND GRUB EXISTING WESTBOUND LANE FROM STA. 100+00.0 TO STA. 102+00.0. CONST. BLACK BASE AND CONST. VERTICAL TAPERS ACCORDING TO PHASE IV TAPER DETAIL WITHIN THE SAME WORK PERIOD
7. SHIFT WESTBOUND TRAFFIC TO NEW ROADWAY.
8. MAINTAIN EASTBOUND TRAFFIC ON EXISTING ROADWAY.

PHASE V

1. INSTALL ADVANCE WARNING SIGNING FOR EASTBOUND AND WESTBOUND DIRECTIONS.
2. INSTALL REQUIRED TRAFFIC CONTROL DEVICES AS SHOWN ON PHASE V TYPICALS.
3. MAINTAIN TRAFFIC ACCORDING TO PHASE V TYPICALS.
4. UTILIZING FLAGGERS DIRECT BOTH LANES OF TRAFFIC TO WESTBOUND LANE ONLY FROM STA. 100+00.0 TO STA. 102+00.0.
5. CONSTRUCT TEMPORARY CURB FROM STATION 100+00 TO STA. 101+50.
6. CLEAR AND GRUB EXISTING EASTBOUND LANE FROM STA. 100+00.0 TO STA. 102+00.0. CONST. BLACK BASE AND CONST. VERTICAL TAPERS ACCORDING TO PHASE V TAPER DETAIL WITHIN THE SAME DAY.
7. SHIFT BOTH TRAFFIC LANES TO NEW ROADWAY.
8. CONSTRUCT INLET 5-1A.
9. CONSTRUCT TURNOUTS AT STATIONS 104+14 AND 110+88 AND RIGHT SHOULDER FROM STA. 111+96.52 TO END OF PROJECT.
10. PLACE STRUCTURAL COURSE UTILIZING INDEX 604 AND ALTERNATING LANES.
11. PLACE FRICTION COURSE ON ENTIRE ROADWAY.

PHASE VI

1. INSTALL ADVANCE WARNING SIGNING FOR EASTBOUND AND WESTBOUND DIRECTIONS.
2. MAINTAIN TRAFFIC ACCORDING TO INDEX 602.
3. REMOVE EXISTING ROADWAY, BRIDGE, AND TEMPORARY PAVEMENT.

Handwritten signature/initials

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ETAI
Engineers & Planners

300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TRAFFIC CONTROL PLAN

SHEET
NO.

70

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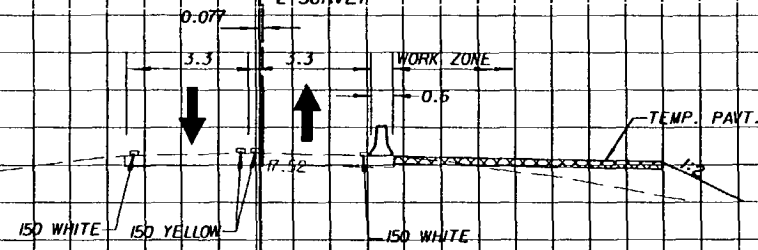
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R/W

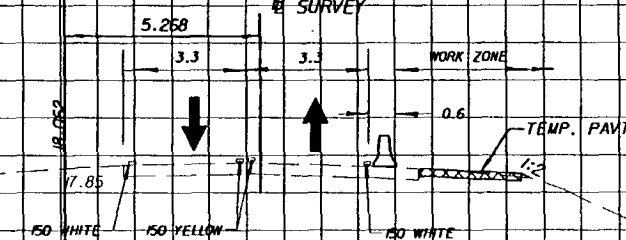
Q CONST
Q SURVEY



PHASE II TYPICAL
STATION 115+00.00

115+00.000

Q SURVEY



PHASE II TYPICAL
STATION 102+00.00

102+00.000

Q SURVEY

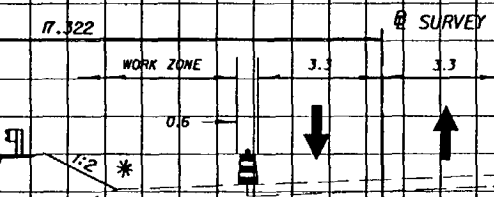
WATER EL. = 15.1
AUGUST 1997

15.002 DMM

1:2

1:4

Q SURVEY



PHASE I TYPICAL
STATION 104+00.00

104+00.000

• SEE CROSS SECTIONS FOR DITCH DETAILS
POSITIVE DRAINAGE TO BE MAINTAINED AT
ALL TIMES DURING CONSTRUCTION.

2/26/01

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TRAFFIC CONTROL PLAN
PHASE I AND II TYPICAL SECTIONS

SHEET
NO.
71

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30 JAN 2001 07:59:15

T DeJesus/Highway

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REVISIONS			
DATE	BY	DESCRIPTION	

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TRAFFIC CONTROL PLAN PHASE III TYPICAL SECTIONS	

SHEET NO.
72

WATER EL. = 15.1
AUGUST 1997

16.002 D.M.W.

R/W

E CONST.

B SURVEY

WORK ZONE 0.077

0.6

3.0

3.0

R/W

150 WHITE

150 YELLOW

150 WHITE

TEMP. PAVT.

PHASE III TYPICAL
STATION 115+00.00

115+00.000

11.629

WORK ZONE

B SURVEY

3.0

3.0

0.6

150 WHITE

150 YELLOW

150 WHITE

PHASE III TYPICAL
STATION 112+00.00

112+00.000

5.268

WORK ZONE

B SURVEY

3.0

3.0

0.6

150 WHITE

150 YELLOW

150 WHITE

TEMP. PAVT.

PHASE III TYPICAL
STATION 102+00.00

102+00.000

E CONST.

SCALE:
1:200 HORIZONTAL
1:200 VERTICAL

30 JAN 2001 07:59:19

T. DeJesus/Highway

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10

15

20

WATER EL. = 15.1
AUGUST 1997

R/W

R/W

R/W

CONST.

SURVEY

WORK ZONE

0.077

0.5

3.0

3.0

TEMP. PAVT.

150 WHITE

150 YELLOW

150 WHITE

115+00.000

PHASE IV TYPICAL
STATION 115+00.00

11.629

SURVEY

WORK ZONE

3.0

3.0

0.5

150 WHITE

150 YELLOW

150 WHITE

112+00.000

PHASE IV TYPICAL
STATION 112+00.00

SURVEY

WORK ZONE

1.386

0.5

3.6

1:6

TEMPORARY CURB

150 WHITE

150 WHITE

R/W

101+00.000

PHASE IV TYPICAL
STATION 101+00.00

CONST.

SCALE:

1:200 HORIZONTAL

1:200 VERTICAL

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1/22/01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners
300 PRIMERA BLVD., SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. ED6885

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TRAFFIC CONTROL PLAN
PHASE IV TYPICAL SECTIONS

SHEET NO.
73

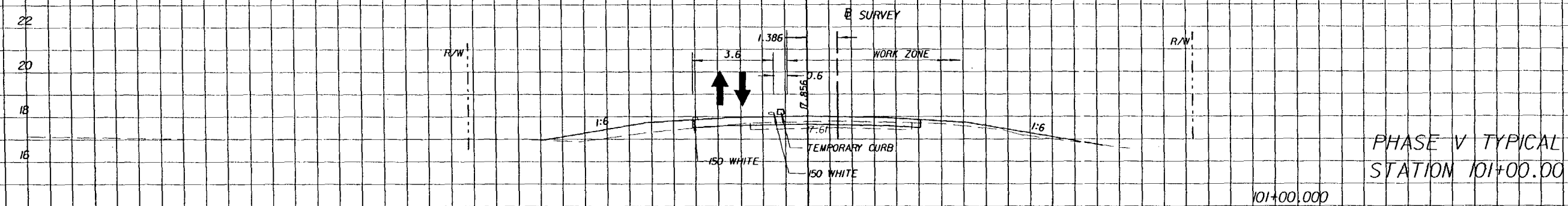
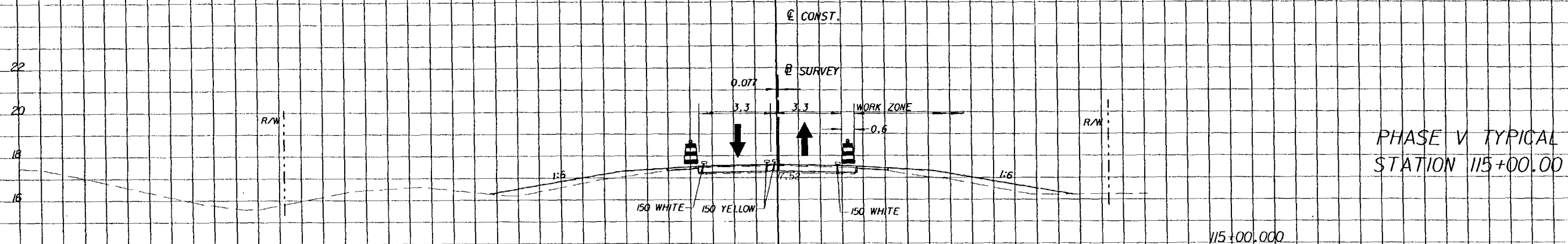
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30 JAN 2001 07:59:23

T DeJesus/Highway

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n:\96157.00\dm\dmtrdnew.dgn 30 JAN 2001



SCALE:
1:200 HORIZONTAL
1:200 VERTICAL

REVISIONS			
DATE	BY	DESCRIPTION	

TEI
Engineers & Planners

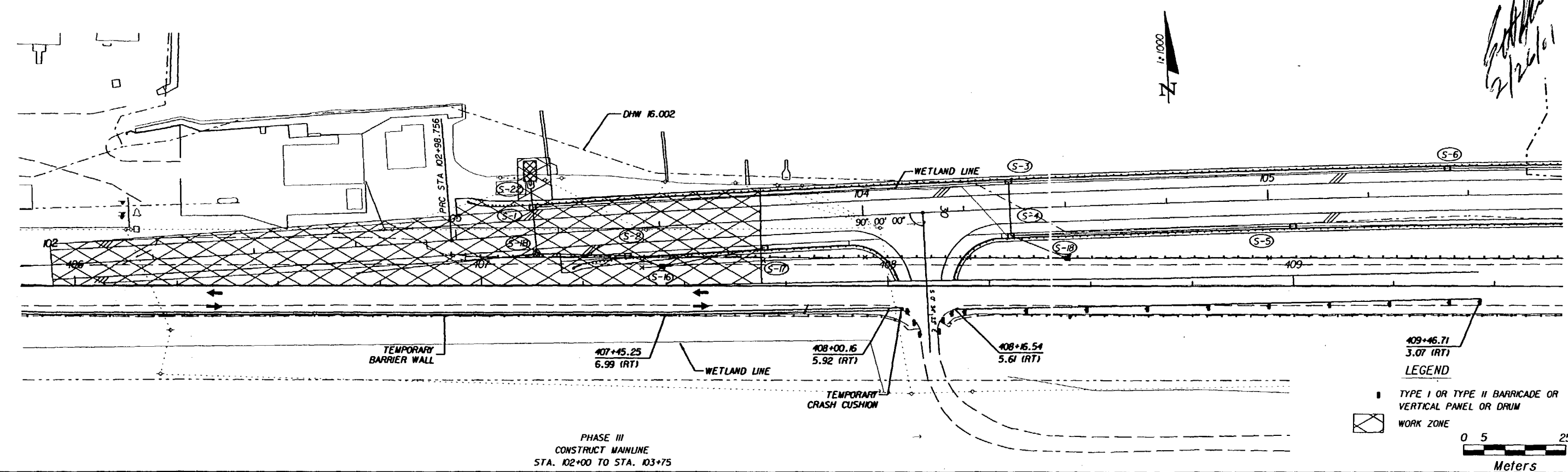
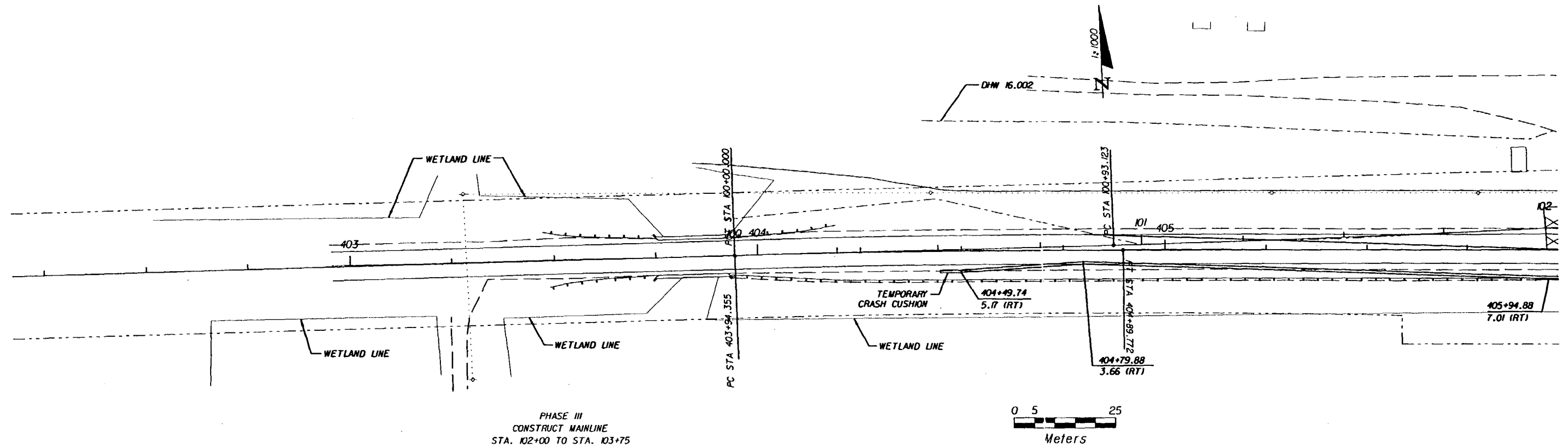
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. ED6185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TRAFFIC CONTROL PLAN
PHASE V TYPICAL SECTIONS

SHEET NO.
74

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E86185

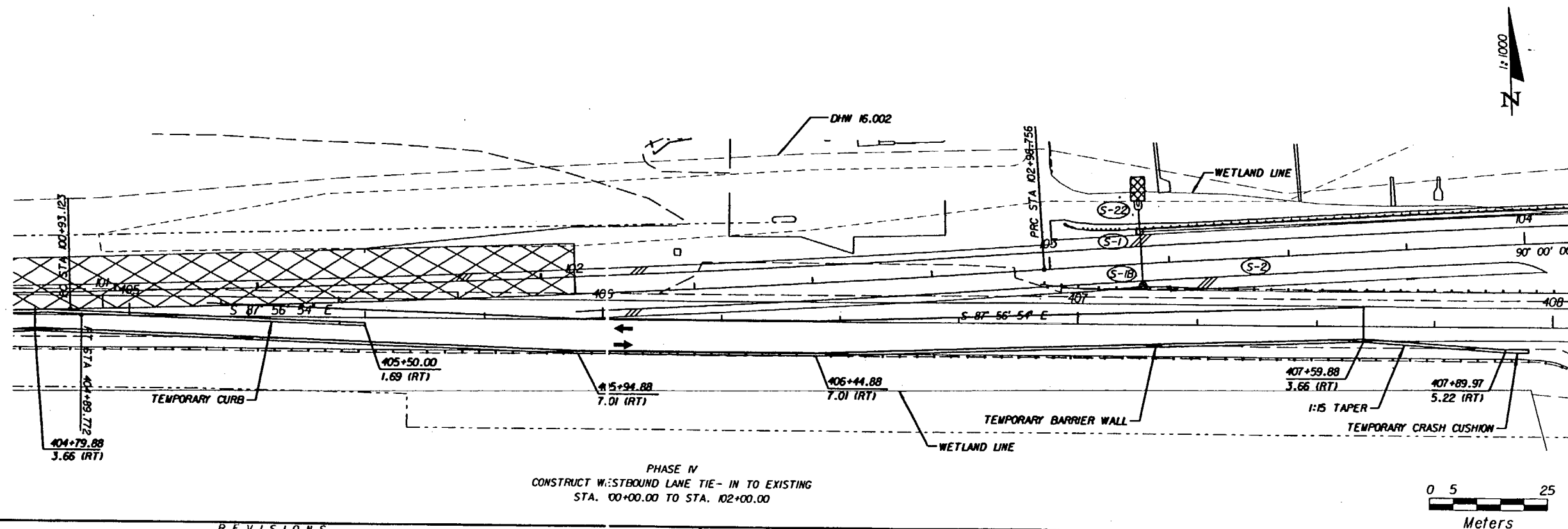
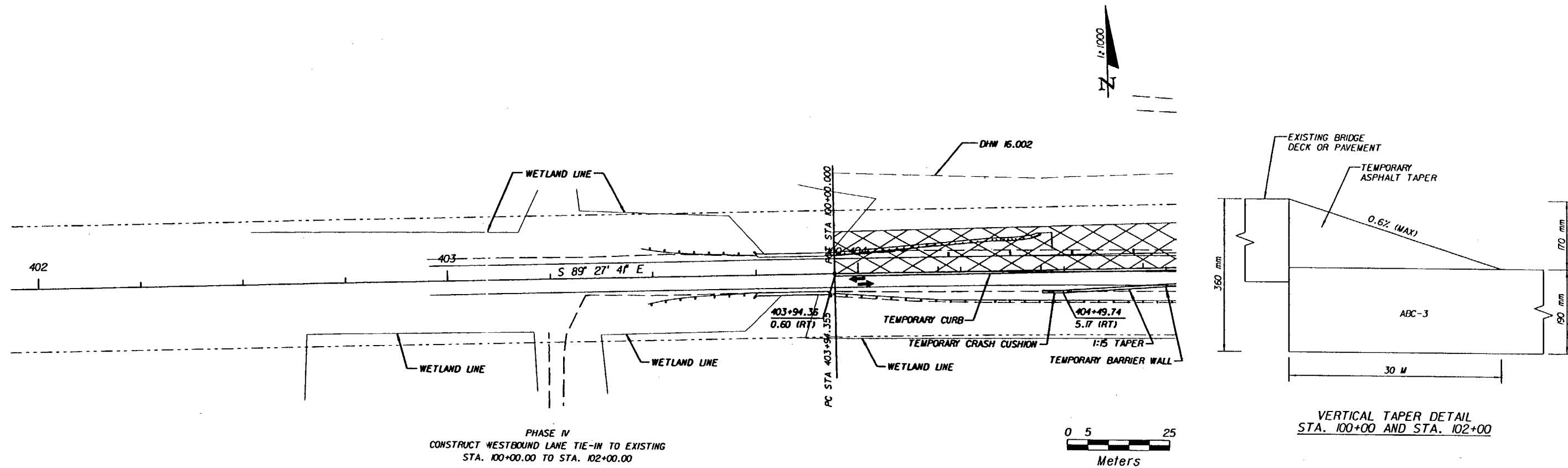
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	97668-1-52-01

TRAFFIC CONTROL PLAN
WEST END OF PROJECT - PHASE III

SHEET NO.
76

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LEGEND



WORK ZONE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners

300 PRIMA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E8685

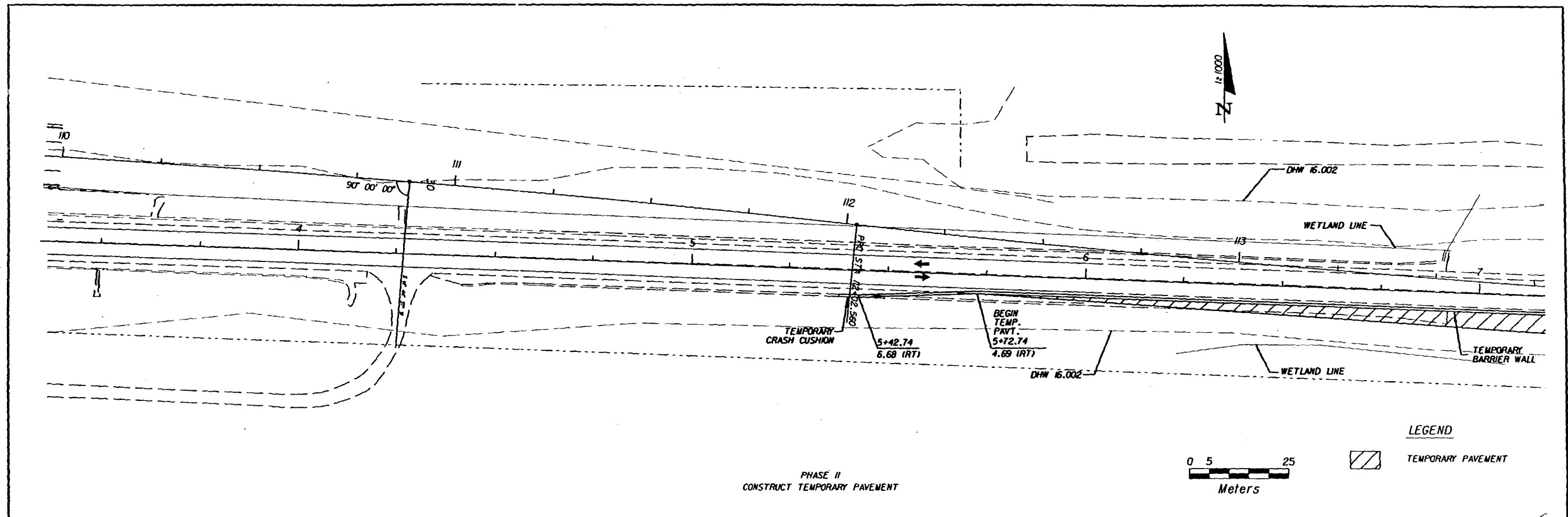
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

TRAFFIC CONTROL PLAN
WEST END OF PROJECT - PHASE IV

SHEET
NO.
77

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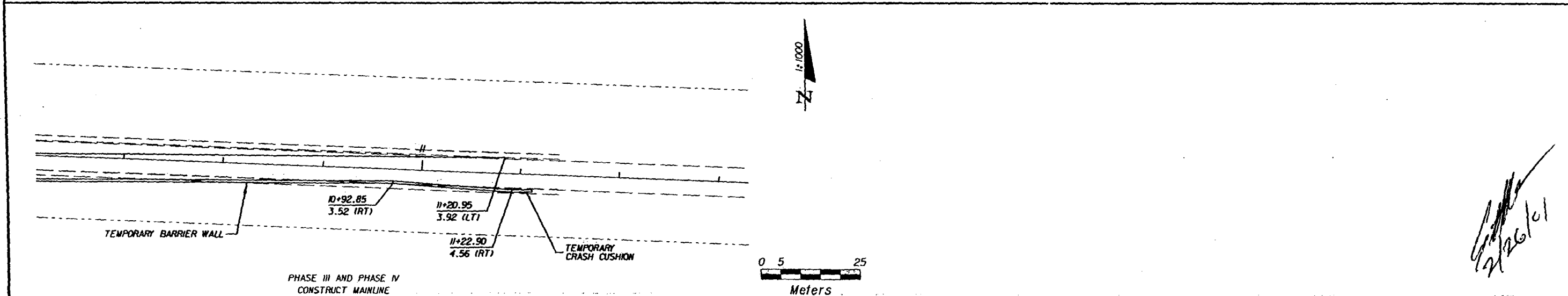
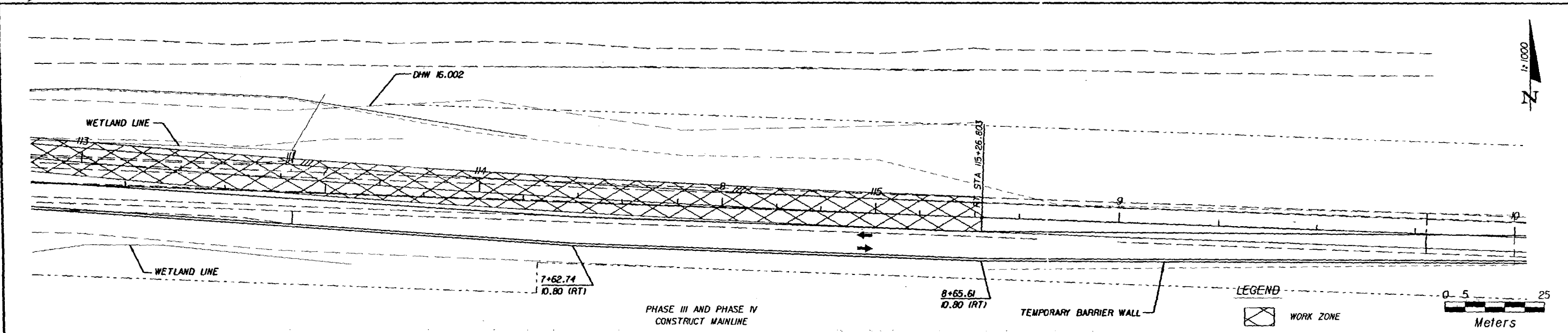
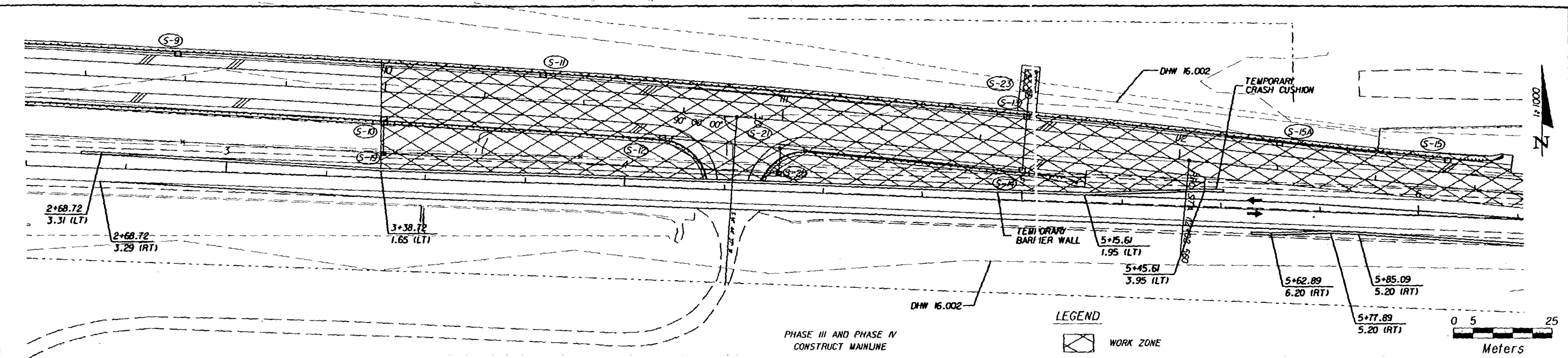
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30 JAN 2001 08:02:22

T DeJesus/Highway

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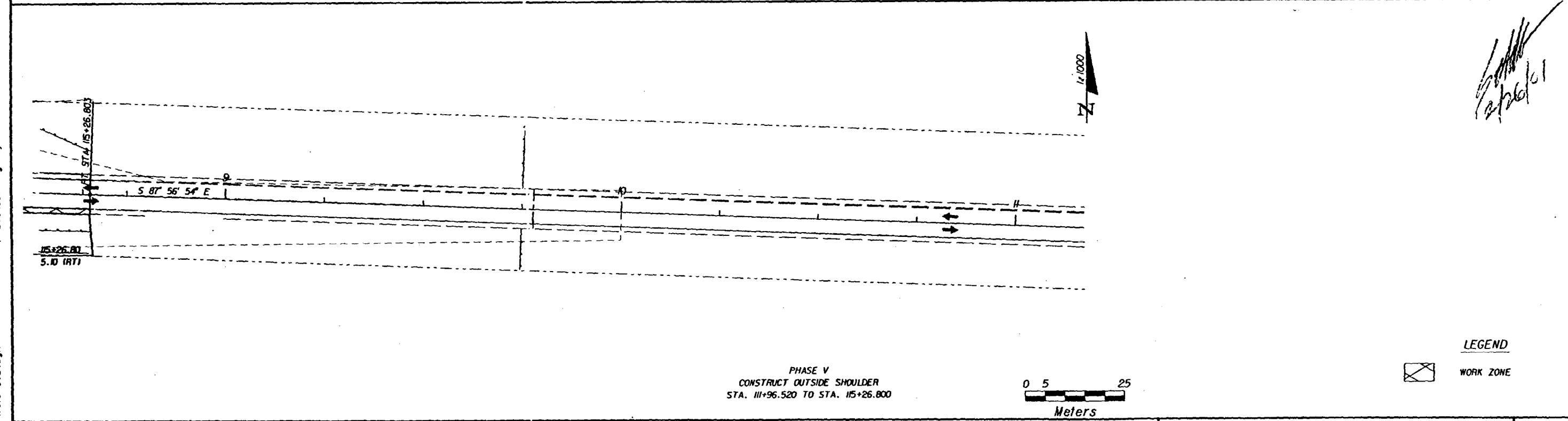
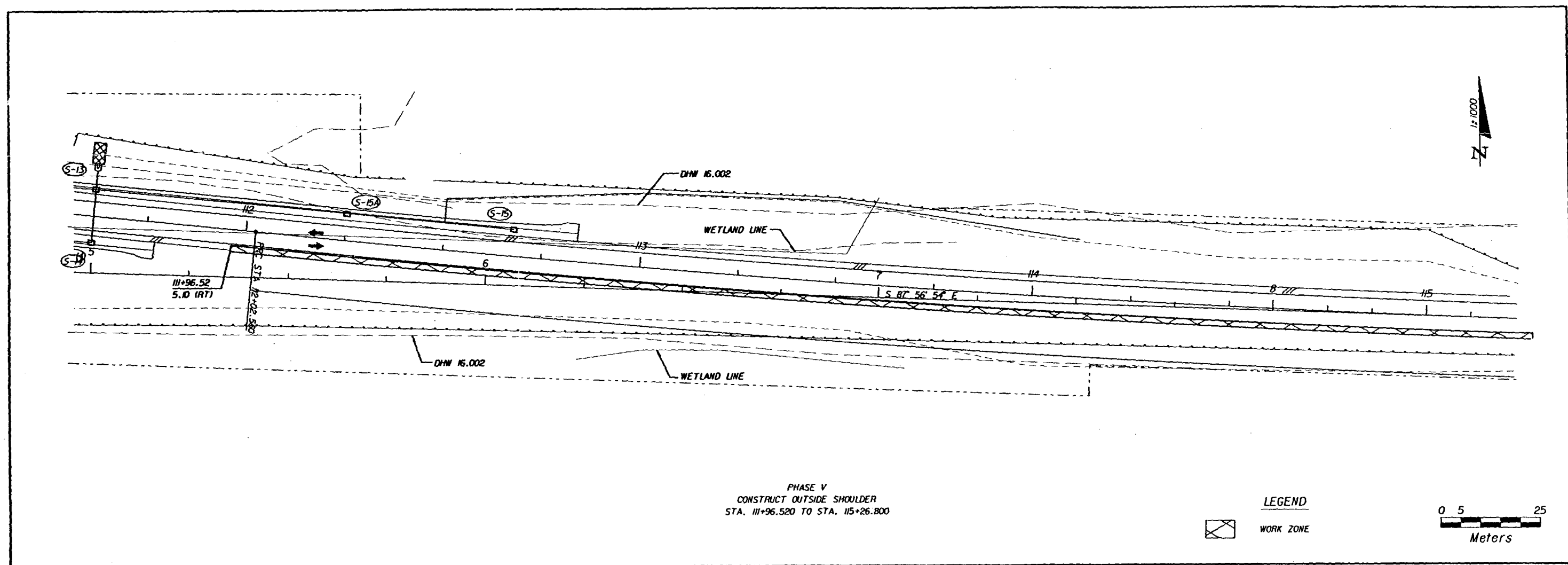
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI Engineers & Planners 300 PRIMA BLVD, SUITE 200, LAKE MARY, FL 32746 (407) 805-0355 ENGINEERING BUSINESS NO. EB685			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJ. ID. S.R. 60 OSCEOLA 439718-1-52-01 S.R. 60 POLK 117668-1-52-01		
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TRAFFIC CONTROL PLAN EAST END OF PROJ. - PHASE III & IV			SHEET NO. 80
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JAN 2001

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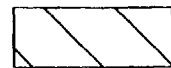


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL PLAN EAST END OF PROJECT - PHASE V	SHEET NO. 81
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJ. ID.		
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						S.R. 60	POLK	197668-1-52-01		

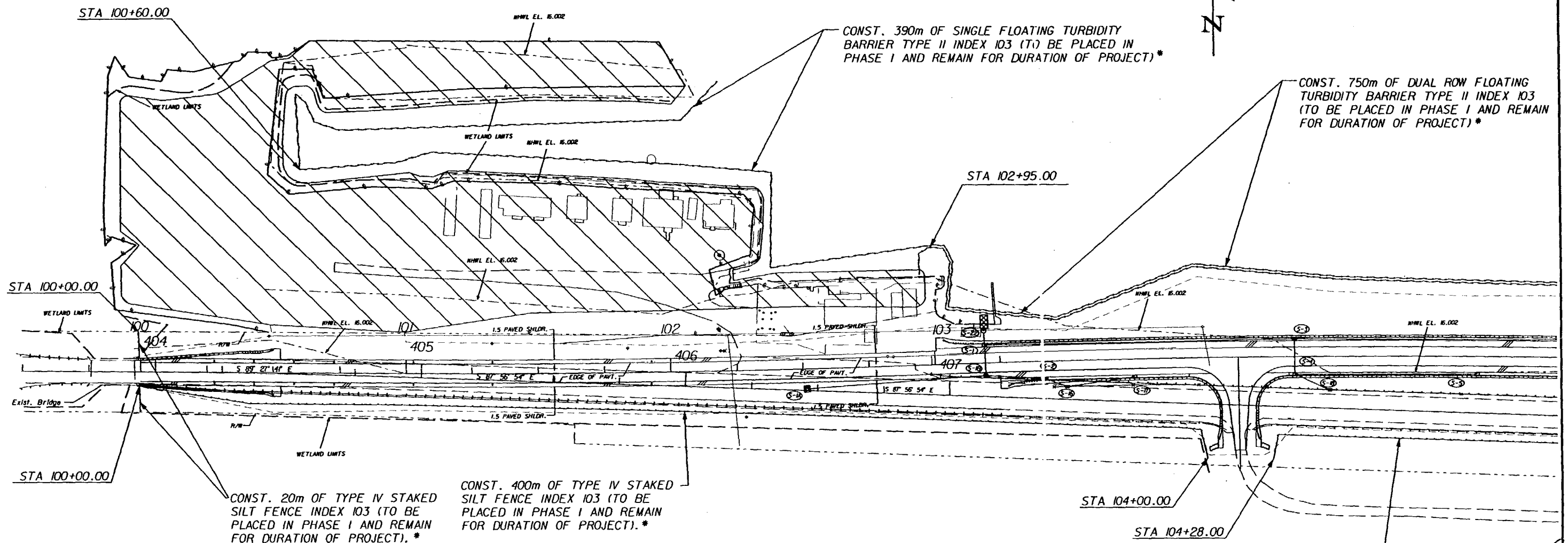
TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

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* FOR DETAILS SEE INDEX 102, 103 AND SHEET 84 OF THE CONSTRUCTION PLANS.



FLOOD PLAIN COMPENSATION AREA



TURBIDITY MONITORING REQUIRED:

DESCRIPTION: TURBIDITY EXPRESSED IN NEPHELOMETRIC TURBIDITY UNITS (NTU).

LOCATION: BACKGROUND - SAMPLES SHALL BE TAKEN 200 FEET UPSTREAM OF ANY CONSTRUCTION ACTIVITY WITHIN SURFACE WATERS OF THE STATE.

COMPLIANCE: SAMPLES SHALL BE TAKEN 200 FEET DOWNSTREAM OF THE CONSTRUCTION ACTIVITIES ADJACENT TO OR WITHIN SURFACE WATERS OF THE STATE.

FREQUENCY: TWICE DAILY, WITH AT LEAST A FOUR-HOUR INTERVAL, DURING ALL WORK AUTHORIZED BY THIS PERMIT.

DURATION: MONITORING SHALL BEGIN ON THE FIRST DAY OF CONSTRUCTION FOR ALL ACTIVITIES RELATED TO THE BRIDGE CONSTRUCTION AND MAY BE DISCONTINUED UPON PERMANENT STABILIZATION OF ALL DISTURBED SOILS.

STANDARDS & REPORTING: THE MONITORING DATA MUST DEMONSTRATE THAT TURBIDITY AT THE COMPLIANCE SITE IS LESS THAN OR EQUAL TO 29 NTU'S ABOVE NATURAL BACKGROUND FOR A PERIOD OF 7 CONSECUTIVE DAYS AFTER COMPLETION OF CONSTRUCTION. ALL

MONITORING DATA SHALL BE READ AND RECORDED DAILY AND SUBMITTED TO THE OWNERS AUTHORIZED REPRESENTATIVE (O.A.R.) BY 5:00 P.M. EACH FRIDAY. IF AT ANY TIME THE TURBIDITY EXCEEDS BACKGROUND BY MORE THAN 29 NTU'S, ALL CONSTRUCTION ACTIVITIES SHALL BE HALTED AND A WRITTEN REPORT FAXED TO THE SFWMD POST-PERMIT COMPLIANCE DEPARTMENT IN THE ORLANDO SERVICE CENTER.

MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN:

1. A SKETCH OF THE SAMPLE LOCATIONS;
2. THE TIME OF DAY SAMPLES WERE TAKEN;
3. DEPTH OF WATER BODY;
4. DEPTH OF SAMPLES;
5. ANTECEDENT WEATHER CONDITIONS, AND
6. WIND DIRECTION AND VELOCITY.

CORRECTIVE ACTIONS: REMEDIAL MEASURES SHALL BE TAKEN IMMEDIATELY TO CORRECT THE PROBLEM. ACTIVITIES SHALL RESUME ONLY WITH CONFIRMATION FROM SFWMD STAFF THAT THE SITUATION HAS BEEN REMEDIED.

CONST. 207m OF TYPE IV STAKED SILT FENCE INDEX 103 (TO BE PLACED IN PHASE I AND REMAIN FOR DURATION OF PROJECT). *



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners

300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E6685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	2.19718-1-52-01
S.R. 60	POLK	157668-1-52-01

EROSION CONTROL PLAN

SHEET NO.

82

30 JAN 2001 08:03:45

T: DelJesus/Highway

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* FOR DETAILS SEE INDEX 102, 103 AND SHEET 84 OF THE CONSTRUCTION PLANS.

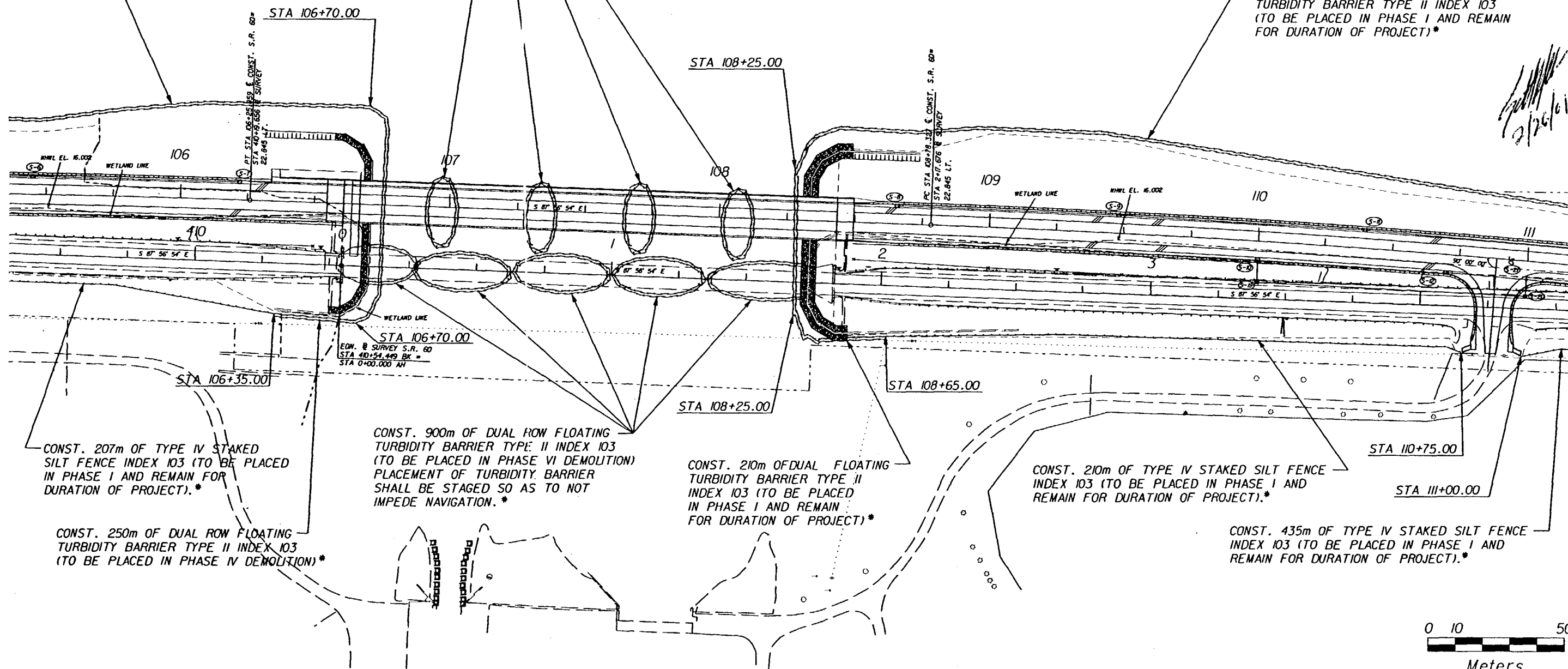
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CONST. 680m OF DUAL ROW FLOATING TURBIDITY BARRIER TYPE II INDEX 103 (TO BE PLACED IN PHASE I AND REMAIN FOR DURATION OF PROJECT)
PLACEMENT OF TURBIDITY BARRIER SHALL BE STAGED SO AS TO NOT IMPEDE NAVIGATION.*

CONST. 750m OF DUAL ROW FLOATING TURBIDITY BARRIER TYPE II INDEX 103 (TO BE PLACED IN PHASE I AND REMAIN FOR DURATION OF PROJECT)*

CONST. 650m OF DUAL ROW FLOATING TURBIDITY BARRIER TYPE II INDEX 103 (TO BE PLACED IN PHASE I AND REMAIN FOR DURATION OF PROJECT)*



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners

300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

EROSION CONTROL PLAN

SHEET NO.
83

30 JAN 2001 08:04:19

T DeJesus/Highway

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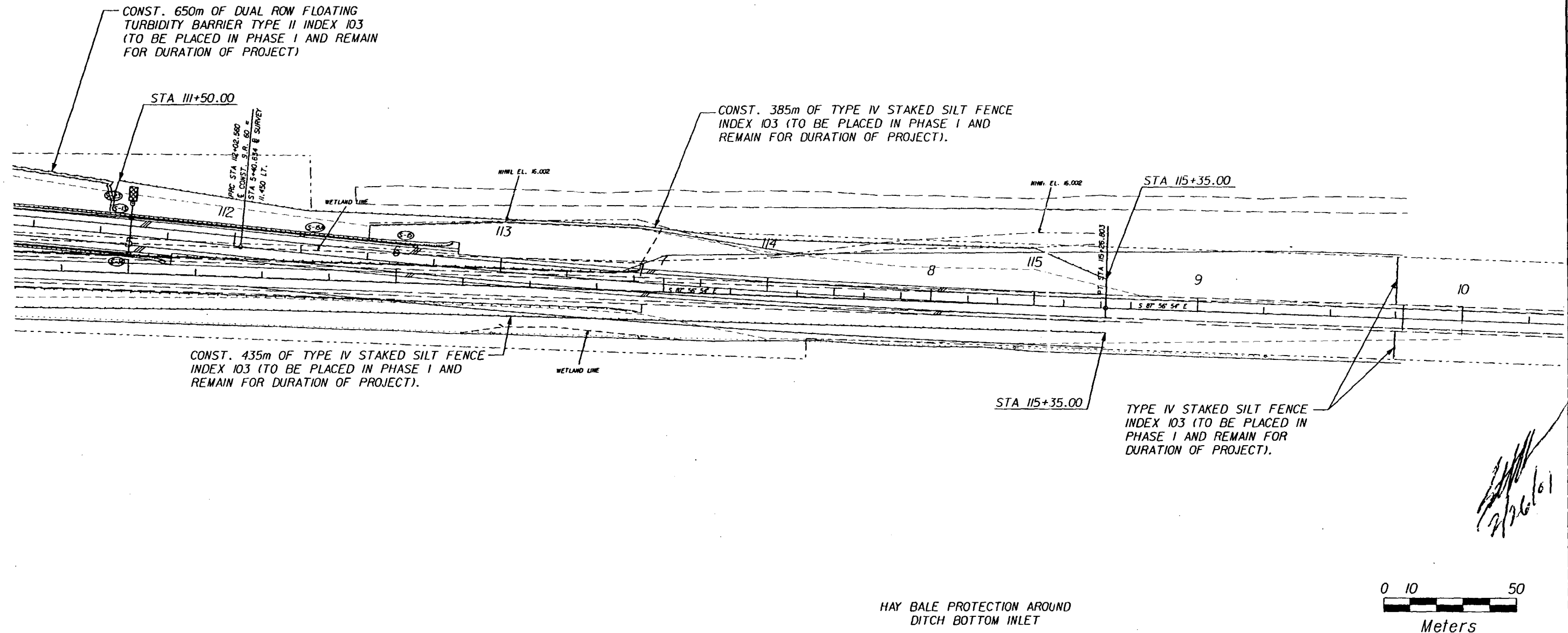
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DITCH BOTTOM INLET



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB6185

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	19668-1-52-01

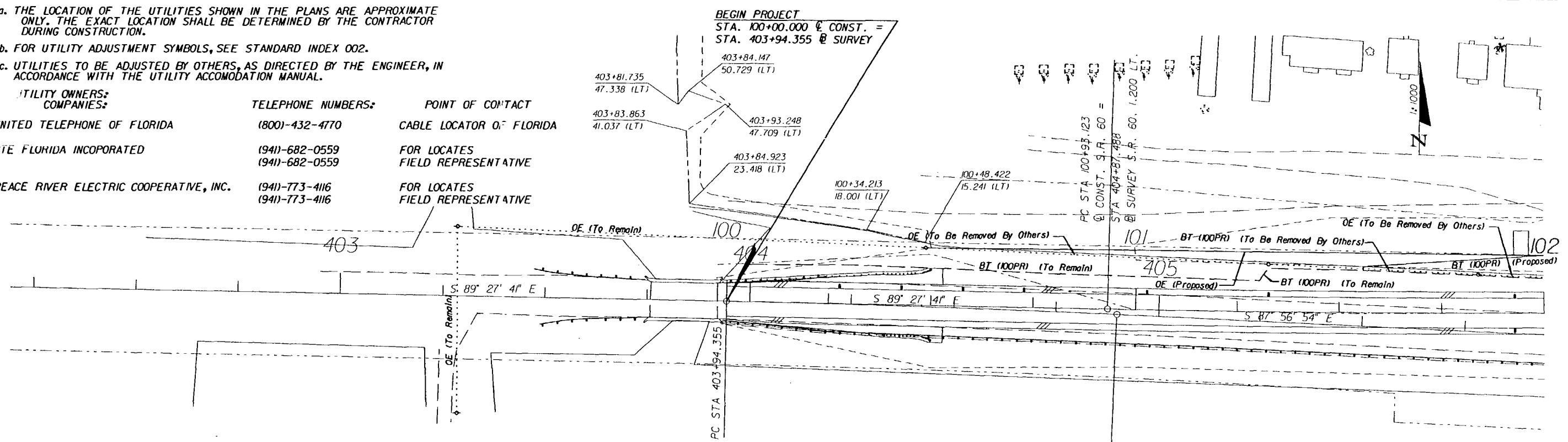
EROSION CONTROL PLAN

SHEET
NO.
84

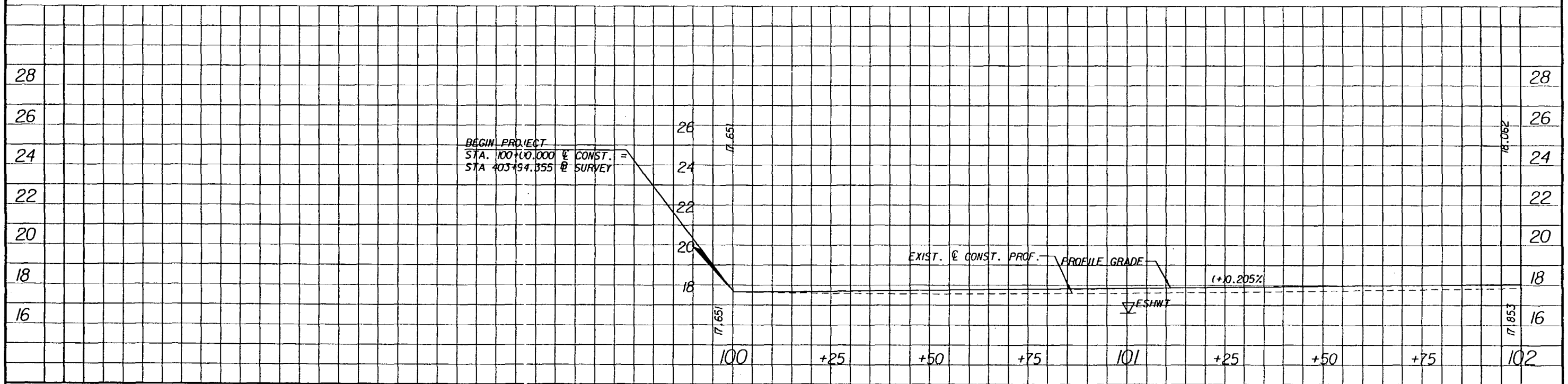
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1. a. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
- b. FOR UTILITY ADJUSTMENT SYMBOLS, SEE STANDARD INDEX 002.
- c. UTILITIES TO BE ADJUSTED BY OTHERS, AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THE UTILITY ACCOMODATION MANUAL.

UTILITY OWNERS:	TELEPHONE NUMBERS:	POINT OF CONTACT
COMPANIES:		
UNITED TELEPHONE OF FLORIDA	(800)-432-4770	CABLE LOCATOR OF FLORIDA
GTE FLORIDA INCORPORATED	(941)-682-0559 (941)-682-0559	FOR LOCATES FIELD REPRESENTATIVE
PEACE RIVER ELECTRIC COOPERATIVE, INC.	(941)-773-4116 (941)-773-4116	FOR LOCATES FIELD REPRESENTATIVE



2. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS AT SUNSHINE STATE ONE OF FLORIDA, INC. (1-800-432-4770) 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION ON PROJECT SITES.
3. OUT OF SERVICE BURIED UTILITIES WITHIN THE LIMITS OF ROADWAY EXCAVATION SHALL BE REMOVED BY THE HIGHWAY CONTRACTOR.



REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	UTILITY ADJUSTMENT	SHEET NO. 85
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
						ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
						S.R. 60	OSCEOLA	239718-1-52-01
						S.R. 60	POLK	197668-1-52-01



300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E6685

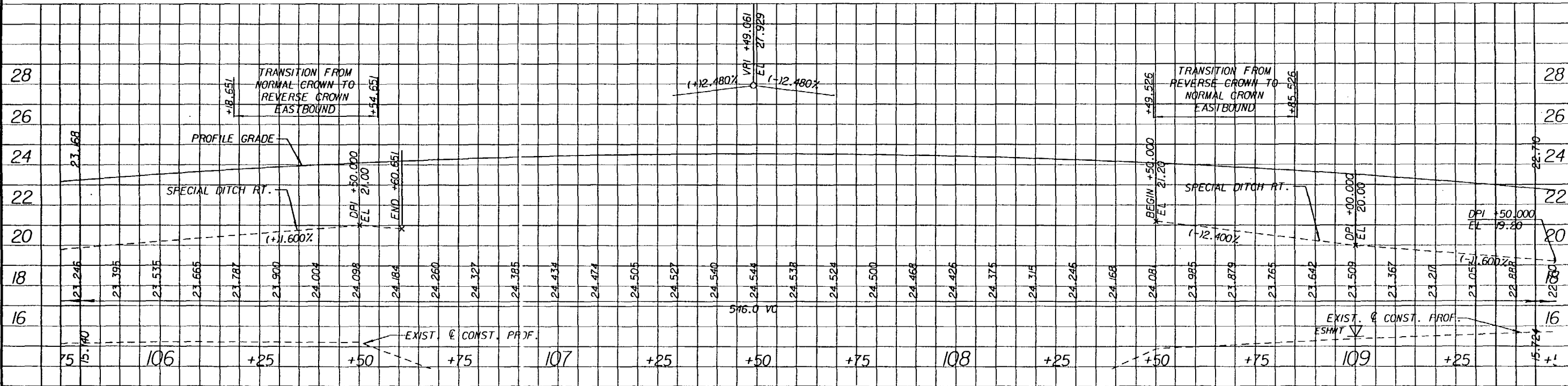
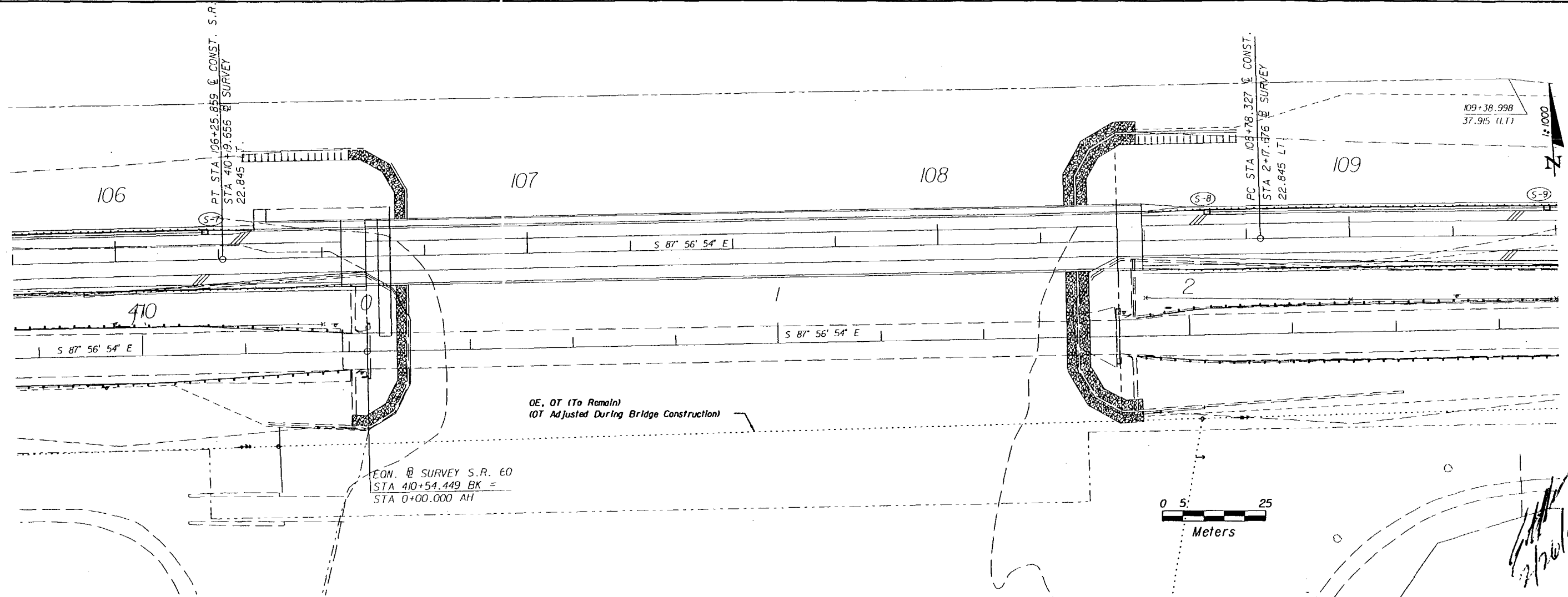
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30 JAN 2001 08:06:23

T DeJesus/Highway

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TEI
Engineers & Planners
300 PRIMERA BLVD. SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. E8685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

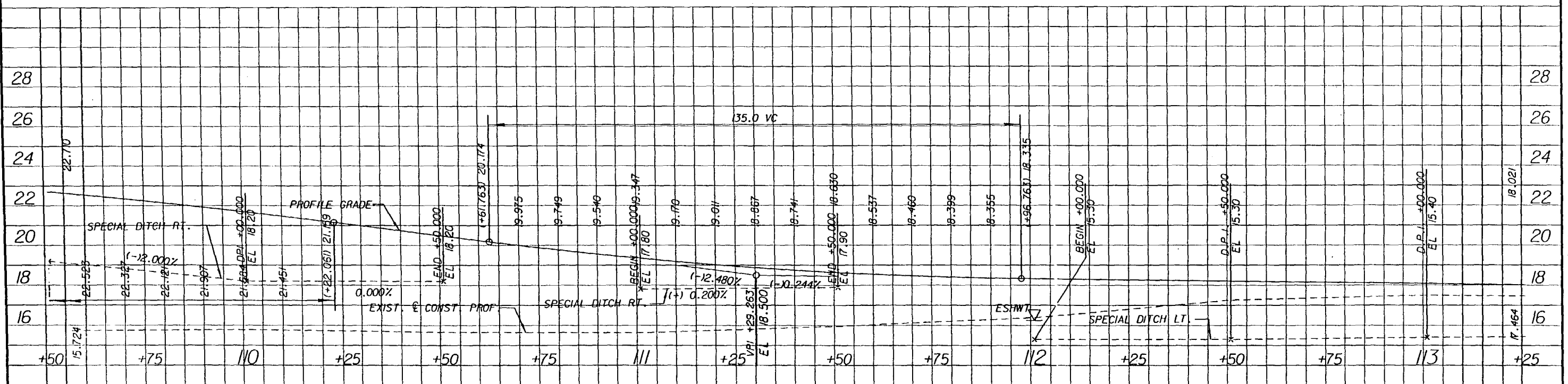
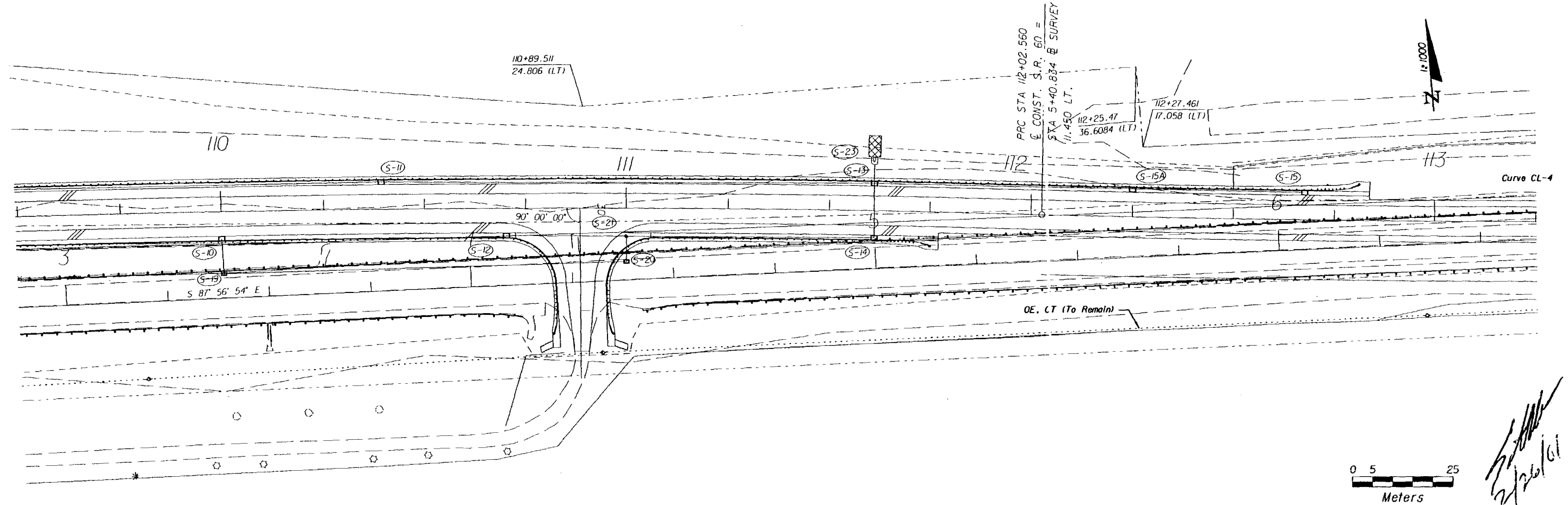
UTILITY ADJUSTMENT		SHEET NO.
		87

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T. DeJesus/Highway

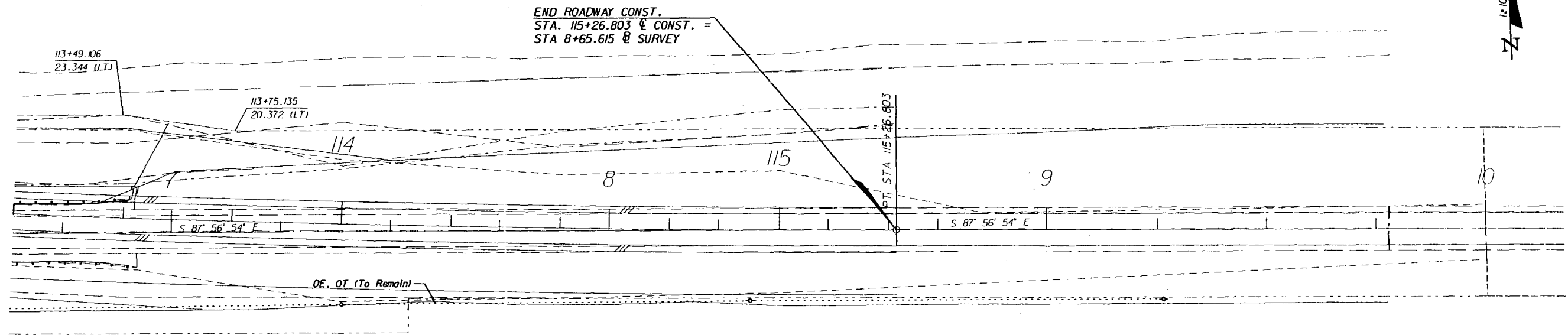
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REVISIONS						 Engineers & Planners 300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746 (407) 805-0355 ENGINEERING BUSINESS NO. E66885	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENT	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJ. ID.		88
							S.R. 60	OSCEOLA	233718-1-52-01		
							S.R. 60	POLK	191668-1-52-01		

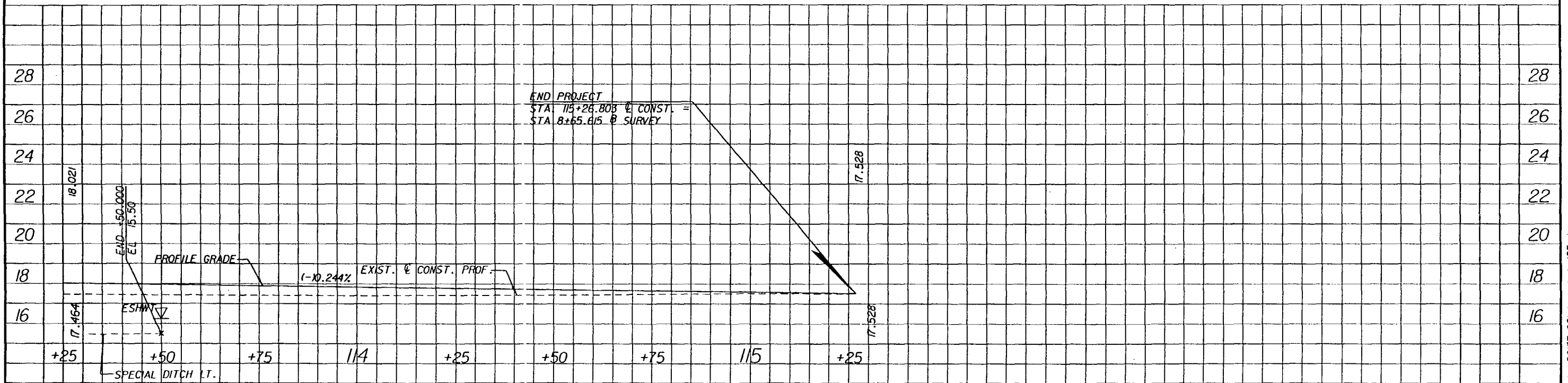
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Meters

2/26/01



REVISIONS			
DATE	BY	DESCRIPTION	

TEI
Engineers & Planners
300 PRIMERA BLVD, SUITE 200, LAKE MARY, FL 32746
(407) 805-0355 ENGINEERING BUSINESS NO. EB685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJ. ID.
S.R. 60	OSCEOLA	239718-1-52-01
S.R. 60	POLK	197668-1-52-01

UTILITY ADJUSTMENT

SHEET NO.
89

n:\96157.00\dgn\utad rd05.dgn 30 JAN 2001