

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING & MARKING PLANS
- SIGNALIZATION PLANS

**LEE COUNTY BOARD OF  
COUNTY COMMISSIONERS**

**PUBLIC WORKS ADMINISTRATION  
DEPARTMENT OF TRANSPORTATION**

**CONTRACT PLANS**

PLANS OF PROPOSED

**S.R. 82 & DANIELS PKWY.**

COUNTY PROJECT NO. 3966  
LEE COUNTY (12070) - M.P. 11.132

INDEX OF PLANS

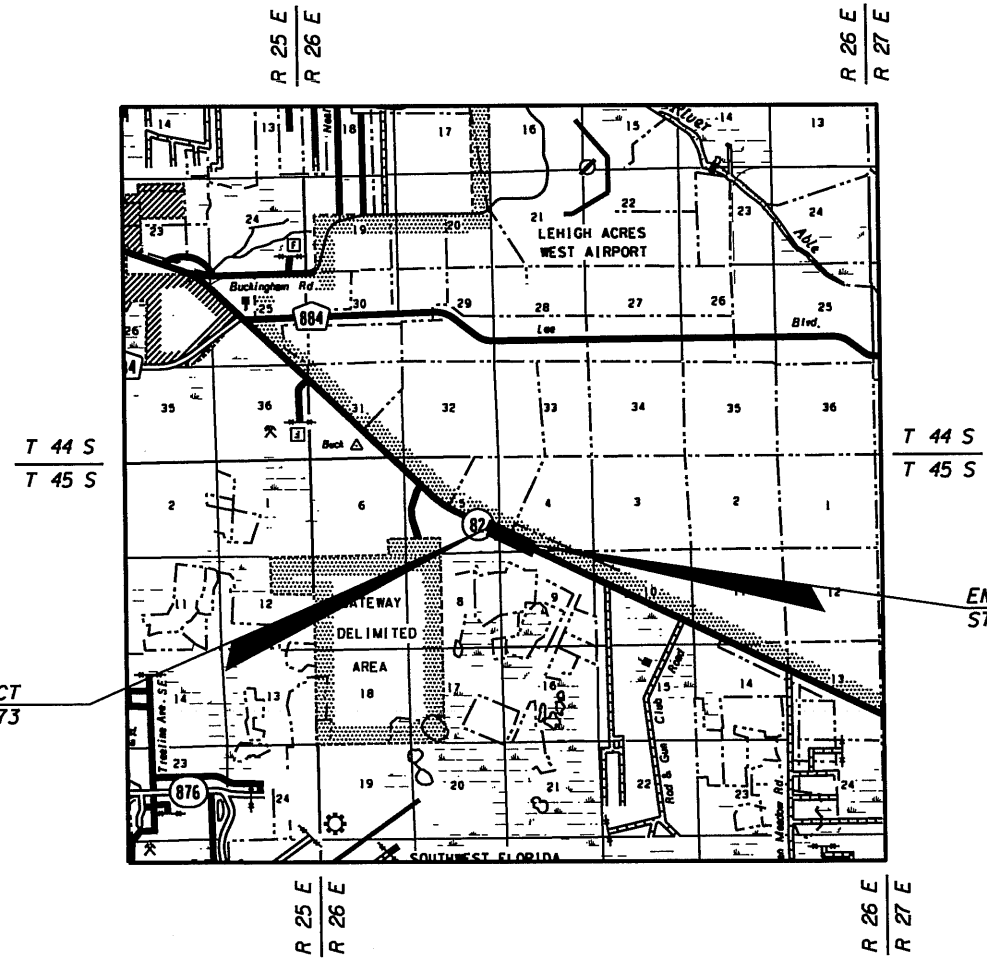
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ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

**AIM ENGINEERING & SURVEYING, INC.**  
5802 BRECKENRIDGE PARKWAY, SUITE 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
Certificate of Authorization No. 3114  
ATTN: SHAWN D. SWETS, P.E. NO. 60274

PLANS PREPARED BY:

**AIM ENGINEERING & SURVEYING, INC.**  
5802 BRECKENRIDGE PARKWAY, SUITE 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
Certificate of Authorization No. 3114  
Vendor No. 65-019775



THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:

LIST OF DEVIATIONS: NONE

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

END PROJECT  
STA. 606+27.37

BEGIN PROJECT  
STA. 575+09.73  
M.P. 10.903

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED JANUARY 2008.

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN  
SPECIFICATIONS FOR SIGNALIZATION, OVERHEAD SIGNS  
AND ROADWAY LIGHTING PLANS.

AT LEAST 72 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION  
OF THE PROJECT, THE CONTRACTOR SHALL CONTACT THE LOCAL  
MAINTENANCE FOOT ENGINEER'S OFFICE TO SECURE GENERAL  
USE PERMITS AND / OR OTHER PERMITS AS REQUIRED FOR WORKING  
WITHIN THE DEPARTMENT'S RIGHT-OF-WAY.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 07-01-08

FOR DESIGN STANDARDS MODIFICATIONS CLICK ON  
"DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:  
[HTTP://WWW.DOT.STATE.FL.US/RDESIGN/](http://www.dot.state.fl.us/RDESIGN/)

ROADWAY PLANS  
ENGINEER OF RECORD:  
*Shawn D. Swets*  
SHAWN D. SWETS, P.E. DATE 6/13/08 P.E. NO. 60274

DEVELOPMENT ORDER APPROVED:  
LEE COUNTY PUBLIC WORKS  
ADMINISTRATOR  
JIM LAVENDER DATE DIRECTOR OF PUBLIC WORKS.

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	3117.64	0.590
BRIDGES	-	-
NET LENGTH OF PROJECT	3117.64	0.590
EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	3117.64	0.590

LEE COUNTY PROJECT MANAGER: EYRA CASH, P.E.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SHEET  
NO.  
1

<u>PAY ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>TOTAL</u>
101-1	Mobilization	LS	1
102-1	Maintenance of Traffic	LS	1
104-13-1	Silt Fence Staked (Type III)	LF	6615
110-1-1	Clearing & Grubbing	AC	2.93
110-4	Concrete Pavement, Removal of Existing	SY	68
120-1	Excavation, Regular	CY	966
120-6	Embankment	CY	2044
160-4	Stabilization, Type B	SY	7970
285-701	Base Optional (Base Group 1)	SY	2038
285-709	Base Optional (Base Group 9)	SY	3958
327-70-1	Milling Existing Asphalt (1")	SY	1108
327-70-4	Milling Existing Asphalt (3")	SY	15183
334-1-14	Superpave Asphaltic Conc. (Traffic D)	TN	419.0
334-1-24	Superpave Asphaltic Conc. (Traffic D, PG 76-22)	TN	2154.5
337-7-45	Asphaltic Conc. Friction Course (FC-12.5, Traffic D, PG 76-22)	TN	1809.0
400-1-15	Conc Class I (Miscellaneous)	CY	5
430-172-201	Pipe Culv (Opt Matl) (Other 0 to 24" CD)	LF	64
430-982-629	Mitered End Section (Opt Matl) (Other 24" CD)	EA	4
520-5-11	Traffic Separator - Concrete Type 1 4' Wide	LF	446
522-1	Concrete Sidewalk, 4" Thick	SY	139
570-1-2	Turf Complete (Sodding)	SY	8221
630-1-12	Conduit (Underground)	LF	702
632-7-1	Signals - Cable, F&I	PI	1
634-7	Cable Adjust	EA	1
635-1-11	Signal (Pull Box)	EA	9
650-51-313	Traf. Signal (F&I) (Three Sect) (Special - LED)	AS	5
650-54	Traf. Signal (Relocate)	AS	2
653-191	Pedestrian Signal (F&I) LED Countdown	AS	6
653-192	Pedestrian Signal (F&I) LED Countdown, Two Way	AS	1
659-101	Signal Head Aux (F&I) (Back Plates, 3-Section)	EA	5
659-107	Signal Head Aux (F&I) (Aluminum Ped)	EA	8
659-320	Signal Head Aux (F&I) (LED Module Green & Yellow)	AS	22
660-2-102	Loop Assembly (F&I) (Type B)	AS	2
660-2-106	Loop Assembly (F&I) (Type F)	AS	11
665-13	Ped Detector (F&I) (Detector w/ Sign Only)	EA	8
670-5-430	Traffic Controller Assembly (Mod) (Special)	AS	1
678-1-104	Controller Accessories (F&I) (Load Switch)	EA	8
690-10	Signal Head Traffic Assembly, Removal	AS	2
700-20-11	Sign Single Post (F&I) (< 12')	AS	2
700-20-40	Sign Single Post (Relocate)	AS	12
700-20-60	Sign Single Post (Remove)	AS	1
700-21-40	Sign, Multi-Post (Relocate)	AS	1
700-48-58	Sign Panel, Relocate, (15 Or Less)	EA	1
705-11-1	Delineator, Tubular Flexible	EA	4
706-3	Pavement Markers, Retro-Reflective	EA	331
710-11-290	Painted Pavement Markings (Std.) (Yellow) (Island Nose)	SF	117
711-11-111	Traffic Stripe Solid (6") (White) Thermo	NM	1.758
711-11-123	12" Solid Traffic Stripe (White) Thermo	LF	998
711-11-125	Traffic Stripe Solid (24") (White) Thermo	LF	155
711-11-131	Traffic Stripe Skip (10/30) (White) Thermo	GM	0.008
711-11-151	Traffic Stripe Skip (2/4) (White) Thermo	LF	55
711-11-170	Directional Arrows Thermo	EA	33
711-11-211	Traffic Stripe Solid (6") (Yellow) Thermo	NM	1.542
711-11-222	8" Solid Traffic Stripe (Yellow) Thermo	LF	548
711-11-224	Traffic Stripe Solid (18") (Yellow) Thermo	LF	649
745-70-12	TMS, Inductive Loop Assembly	AS	4
746-74-121	Traffic Monitor. Site, Cabinet, Modify, Type III, Pole	EA	1

*Handwritten signature*  
8/1/08

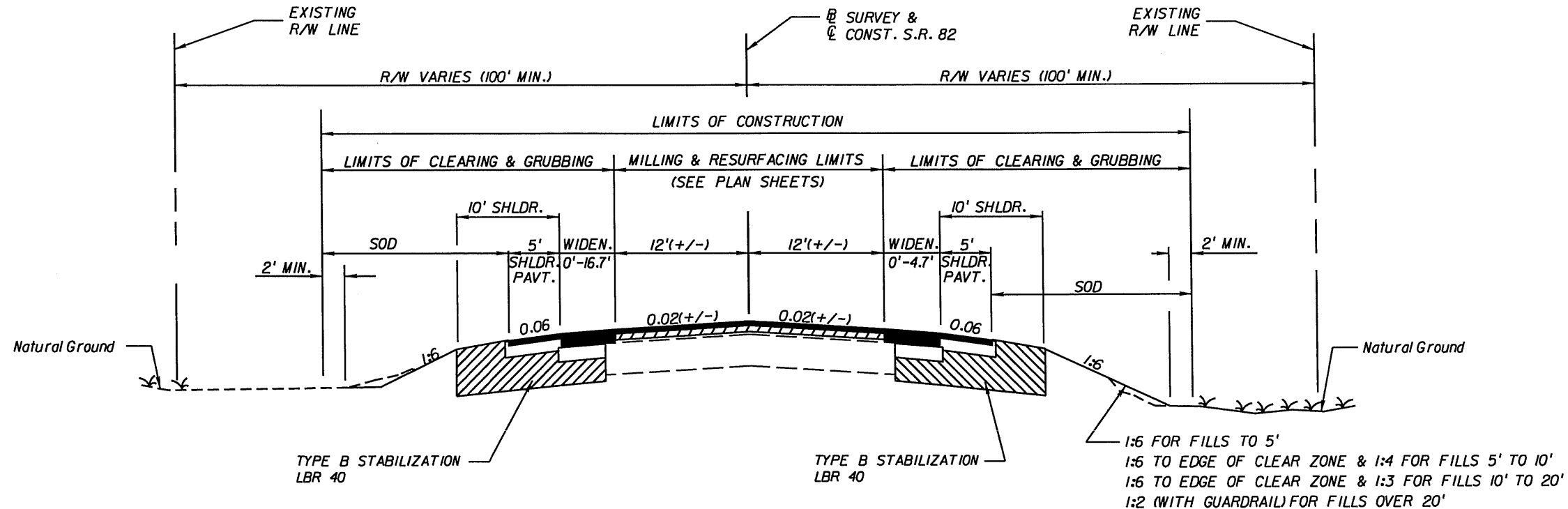
NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTHWEST FLORIDA  
1500 MONROE STREET FORT WALTERS, FLORIDA 33901  
(239) 473-8900 www.lee-county.com/publworks/001116.htm

**SUMMARY OF PAY ITEMS**



**TYPICAL SECTION**

**S.R. 82**

**STA. 575+09.73 TO STA. 606+27.37**

**NOTE:**  
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

**MILLING**  
MILL EXISTING ASPHALT PAVEMENT (3" AVG. DEPTH)

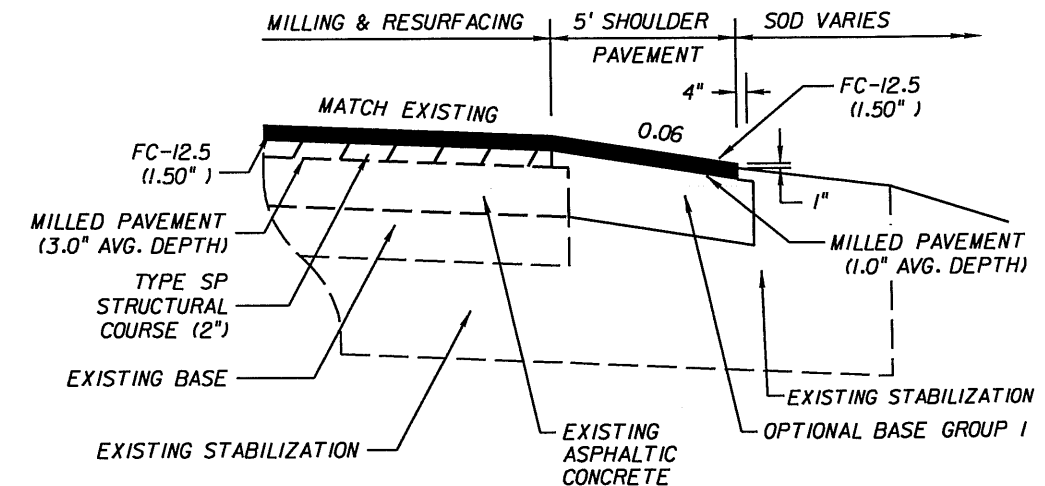
**RESURFACING**  
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)  
AND FRICTION COURSE FC-12.5 (1 1/2") (TRAFFIC D) (PG 76-22)

**WIDENING**  
OPTIONAL BASE GROUP 9  
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") &  
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22)  
AND FRICTION COURSE FC-12.5 (1 1/2") (TRAFFIC D) (PG 76-22)

**NEW SHOULDER**  
OPTIONAL BASE GROUP 1  
AND FRICTION COURSE FC-12.5 (1 1/2") (TRAFFIC D) (PG 76-22)

**SHOULDER MILLING**  
MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)

**SHOULDER RESURFACING**  
FRICTION COURSE FC-12.5 (1 1/2") (TRAFFIC D) (PG 76-22)



**NEW SHOULDER PAVEMENT DETAIL**

*Shawn D. Swets*  
6/12/08

**TRAFFIC DATA**  
FROM STA. 519+26.18 TO STA. 587+36.71

CURRENT YEAR	= 2007 AADT = 11,600
ESTIMATED OPENING YEAR	= 2008 AADT = 12,064
ESTIMATED DESIGN YEAR	= 2022 AADT = 18,564
K = 9.6% D = 53.8% T = 14.2% (24 HOUR)	
DESIGN HOUR T = 7.1%	
DESIGN SPEED = 60 MPH	
POSTED SPEED = 60 MPH	

**TRAFFIC DATA**  
FROM STA. 587+36.71 TO STA. 703+28.31

CURRENT YEAR	= 2007 AADT = 21,000
ESTIMATED OPENING YEAR	= 2008 AADT = 22,150
ESTIMATED DESIGN YEAR	= 2022 AADT = 38,250
K = 9.6% D = 53.8% T = 14.2% (24 HOUR)	
DESIGN HOUR T = 7.1%	
DESIGN SPEED = 60 MPH	
POSTED SPEED = 60 MPH	

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FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of  
SOUTHWEST TRANSPORTATION  
FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**TYPICAL SECTION**

SHEET NO.  
**3**

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
CONST. S.R. 82		
REGULAR EXCAVATION	966	
EMBANKMENT	2,044	
TOTAL		
REGULAR EXCAVATION	966	
EMBANKMENT	2,044	

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.

SUMMARY OF STAKED SILT FENCE			
LOCATION STA. TO STA.	SIDE	LF	
		P	F
575+09.73 TO 606+27.37	LT.	3,341	
	RT.	3,274	
TOTAL		6,615	

SUMMARY OF 4' TRAFFIC SEP.			
LOCATION STA. TO STA.	SIDE	LF	
		P	F
TYPE 1			
593+67.30 TO 598+09.37	RT.	442	
586+41.42	LT.	2	
588+20.38	RT.	2	
TOTAL		446	

SUMMARY OF SODDING				
LOCATION STA. TO STA.	SIDE	SY		FIELD BOOK REFERENCE
		P	F	
S.R. 82	LT.	5,687.4		
	RT.	2,469.1		
DRAINAGE STRUCTURES		64		
TOTAL		8,221		

102-1 INCLUDES ALL COSTS ASSOCIATED WITH MAINTAINANCE OF TRAFFIC.  
104-13-1 BASED ON REPLACEMENT EVERY 12 MONTHS.  
327-70-1 INCLUDES THE COST OF ALL SAW CUTTING AND REMOVAL OF SHOULDER PAVEMENT.  
400-1-15 INCLUDES 5 CY FOR MISCELLANEOUS CONSTRUCTION, AS DIRECTED BY THE ENGINEER.  
570-1-2 INCLUDES THE COST OF MOWING ALL MAINTAINED GRASS AREAS WITHIN  
THE PROJECT LIMITS DURING CONSTRUCTION.

*Shawn D. Swets*  
6/13/08

NO.	DATE	BY	REVISIONS - DESCRIPTION

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SOUTHWEST TRANSPORTATION  
FLORIDA  
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(239) 479-8900 www.lee-county.com/publworks/dot1116.htm

**SUMMARY OF QUANTITIES**

SHEET NO.  
**4**

GENERAL NOTES:

1. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
2. ANY SURVEY MARKER 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 SHALL BE NOTIFIED.
3. B.M. DATA IS NATIONAL GEODESIC VERTICAL DATUM (NGVD) OF 1929 (NGVD-'29). ANY NGVD '29 OR NAVD '88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY: FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT ONE, LOCATION SURVEYOR.
4. THE STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION LINES UNLESS OTHERWISE NOTED ON PLANS.
5. RIGHT OF WAY HAS BEEN CALCULATED FROM PREVIOUS SURVEY MAPS, AND IS APPROXIMATE.
6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
7. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
8. UTILITIES ARE TO BE ADJUSTED BY OTHERS UNLESS SHOWN IN PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
9. IF THE CONTRACTOR ELECTS TO UTILIZE THE OFF-DUTY LAW ENFORCEMENT OFFICERS FOR WORK OTHER THAN THAT SPECIFIED IN THE PLANS, SPECIFICATIONS OR SPECIAL PROVISIONS, THE CONTRACTOR SHALL EMPLOY AND USE OFFICERS AS THEY ARE NEEDED. THE COST OF OFF-DUTY OFFICERS NOT SPECIFICALLY CALLED FOR ELSEWHERE, SHALL BE INCLUDED IN THE COST OF THE WORK ELEMENT BEING PERFORMED.

10. UTILITY OWNERS:

<u>COMPANY</u>	<u>CONTACT</u>	<u>TELEPHONE</u>
LEE COUNTY SIGNAL DEPARTMENT	THOMAS WATT	239-533-9500
LEE COUNTY ELECTRIC CO-OP	TRISH LASSITER	239-656-2374
FLORIDA POWER & LIGHT	SCOTT OVERBAUGH	239-332-9154
EMBARQ	RON POPP	239-336-2162
COMCAST	MARK COOK	239-432-1805


11. NO MATERIALS OR MACHINERY ARE TO BE STORED IN WETLAND AREAS. CONSTRUCTION EQUIPMENT SHALL NOT BE USED TO REMOVE DEBRIS FROM WETLAND AREAS UNLESS A PERMIT HAS BEEN OBTAINED. JURISDICTIONAL LIMITS ARE SHOWN IN THE ROADWAY PLANS.
12. UTILITIES TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
13. COST OF LONGITUDINAL AND PERPENDICULAR SAW CUTS AT PAVEMENT FEATHERING LOCATIONS AND PAVEMENT WIDENING ARE INCIDENTAL TO THE PAVEMENT CONSTRUCTION.
14. PROPOSED SIDEWALK SHALL MEET ADA CRITERIA.
15. PROPOSED SHOULDERS SHALL BE TRANSITIONED TO MATCH ELEVATIONS WHERE PROPOSED SIDEWALK IS LOCATED.

*Shawn D. Swets*  
6/19/08

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 FLORIDA CERTIFICATE NO. 60274

 PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 S O U T H W E S T F L O R I D A TRANSPORTATION  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**GENERAL NOTES**

SHEET NO.  
 5



BM NO. 126  
 STA. 570+93.60 123.8' LT.  
 STD. 4"x4" FDOT CONC. MON.  
 111.5' NE OF E.O.P. S.R. 82  
 42.7' SOUTH OF 16" OAK  
 36' +/- NW OF 24" PALM  
 ELEV. 28.457'

575

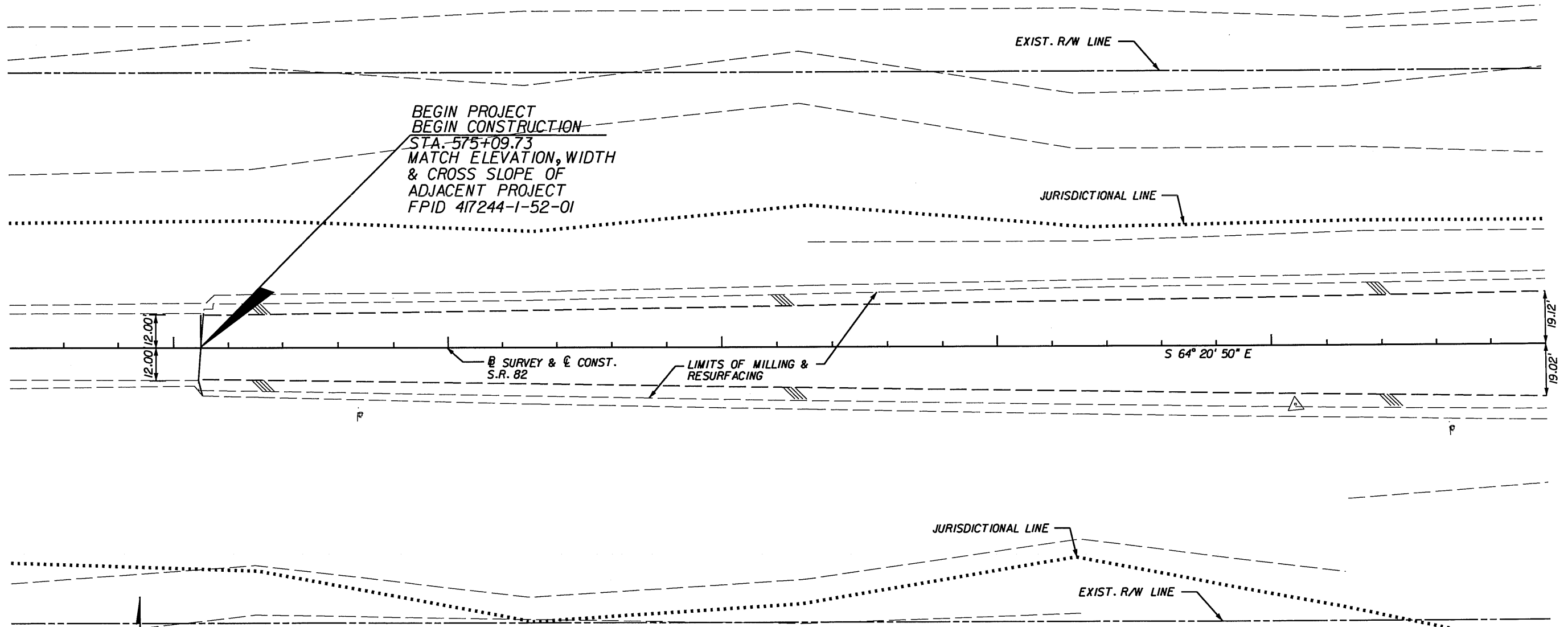
576

577

578

579

580



BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 STA. 575+09.73  
 MATCH ELEVATION, WIDTH  
 & CROSS SLOPE OF  
 ADJACENT PROJECT  
 FPID 417244-1-52-01

⊕ SURVEY & Ⓢ CONST.  
 S.R. 82

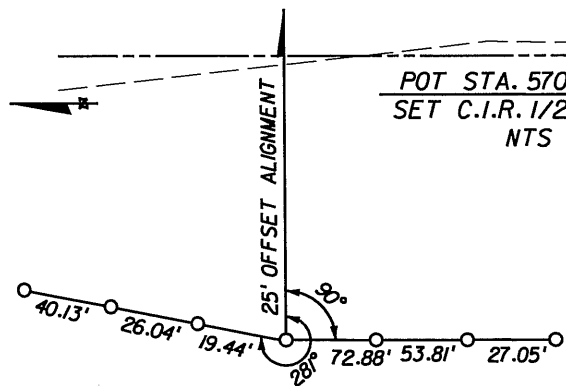
LIMITS OF MILLING &  
 RESURFACING

S 64° 20' 50" E

12.00'  
 12.00'

19.12'  
 19.02'

POT STA. 570+00.00  
 SET C.I.R. 1/2" LB021  
 NTS



*Shawn Swets*  
 6/13/08

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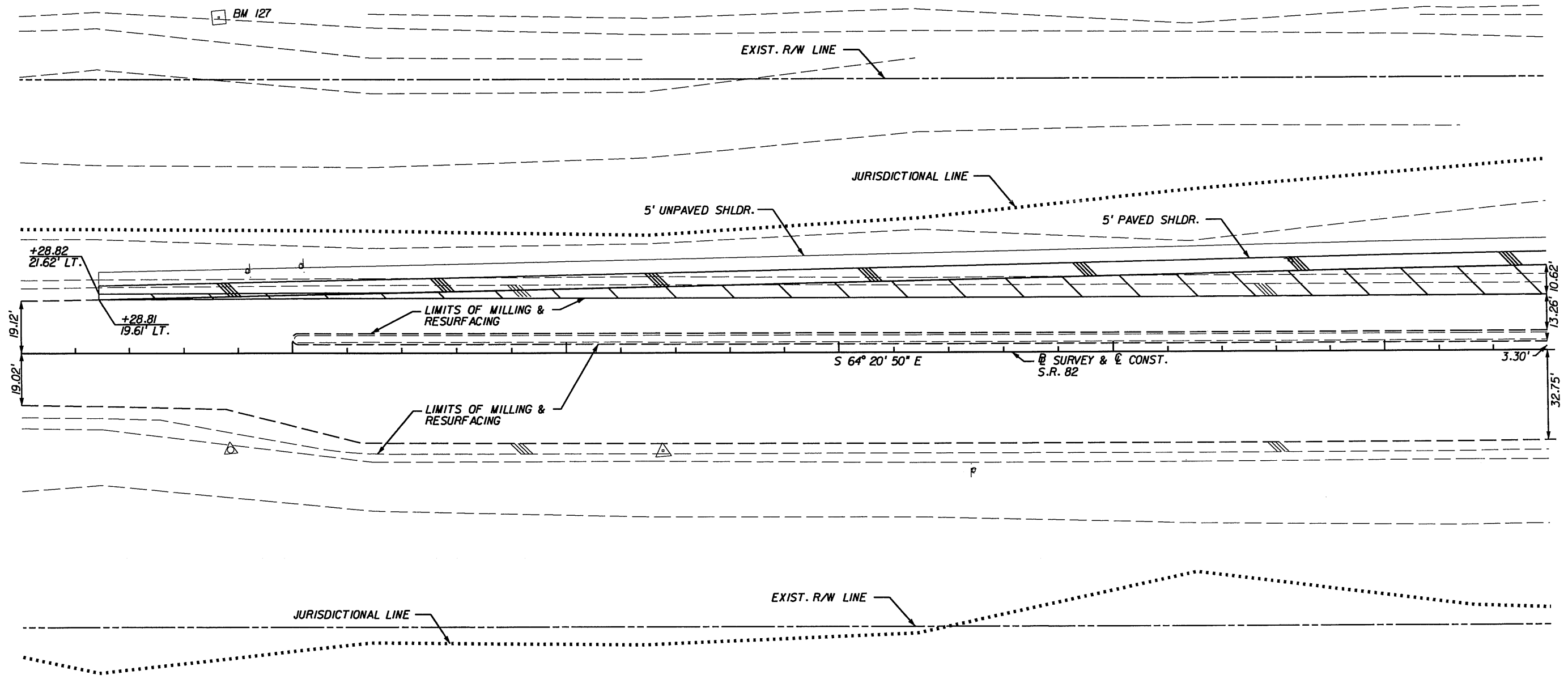
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**PLAN SHEET (1)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 574+00.00 TO STA. 580+00.00**

SHEET NO.  
 7

BM NO. 127  
 STA. 580+73.70 122.6' LT.  
 STD. 4"X4" FDOT CONC. MON.  
 98.1' NE OF E.O.P. S.R. 82  
 29.0' SE OF 12" PALM  
 32.7' NW OF 18" OAK  
 ELEV. 28.279'

90 581 582 583 584 585



PAVEMENT WIDENING

*Shaw D. Swets*  
 06/13/09

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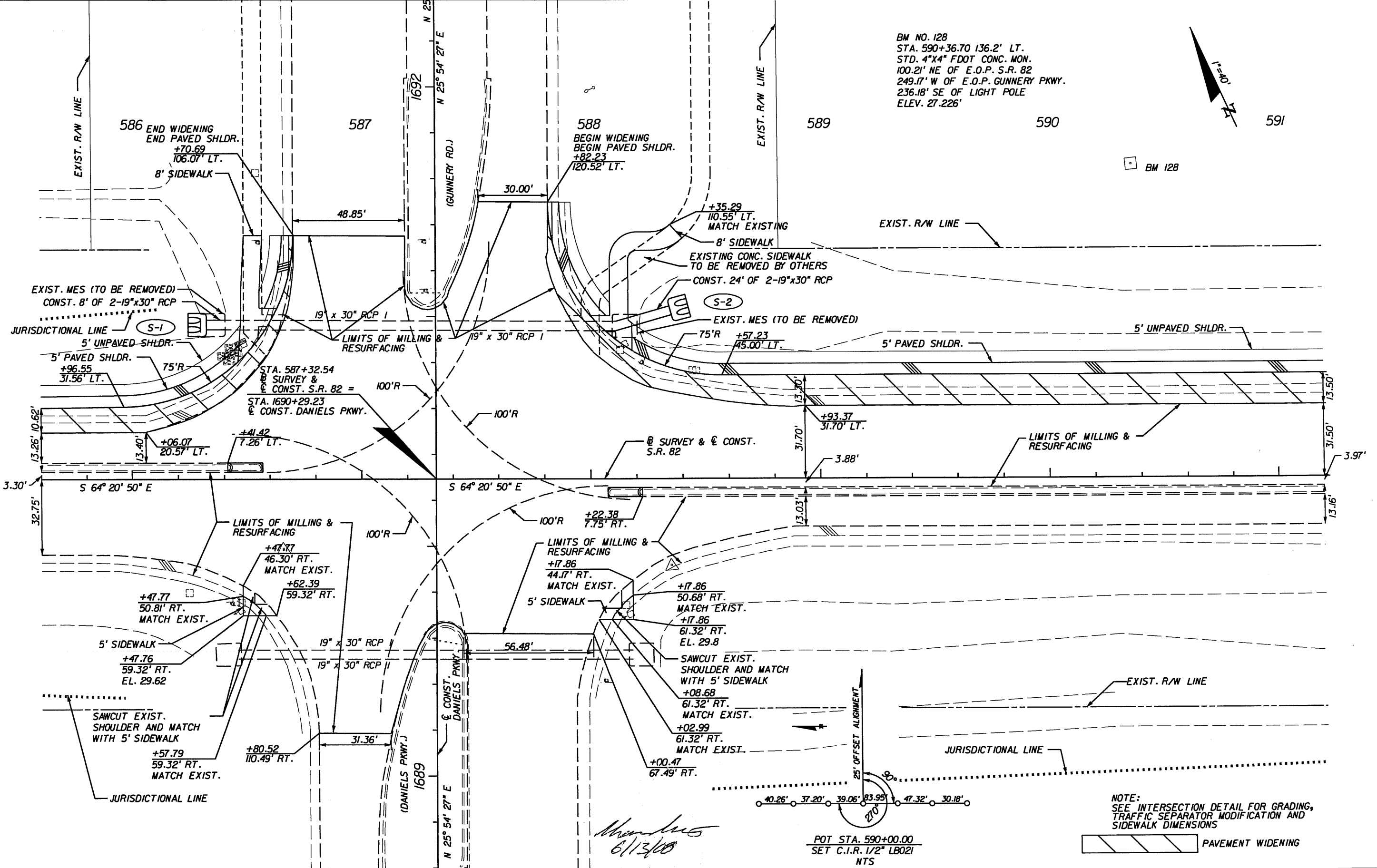
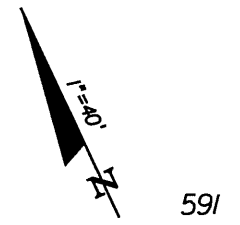
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**PLAN SHEET (2)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 580+00.00 TO STA. 585+60.00**

SHEET NO.  
**8**



BM NO. 128  
 STA. 590+36.70 136.2' LT.  
 STD. 4"x4" FDOT CONC. MON.  
 100.21' NE OF E.O.P. S.R. 82  
 249.17' W OF E.O.P. GUNNERY PKWY.  
 236.18' SE OF LIGHT POLE  
 ELEV. 27.226'



NOTE:  
 SEE INTERSECTION DETAIL FOR GRADING,  
 TRAFFIC SEPARATOR MODIFICATION AND  
 SIDEWALK DIMENSIONS



POT STA. 590+00.00  
 SET C.I.R. 1/2" LB021  
 NTS

*Shawn Swets*  
 6/13/08

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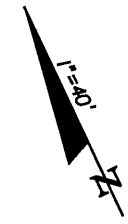
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**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS  
 LEE COUNTY  
 DEPARTMENT of TRANSPORTATION  
 SOUTHWEST FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**PLAN SHEET (3)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 585+60.00 TO STA. 591+20.00**

SHEET NO.  
 9



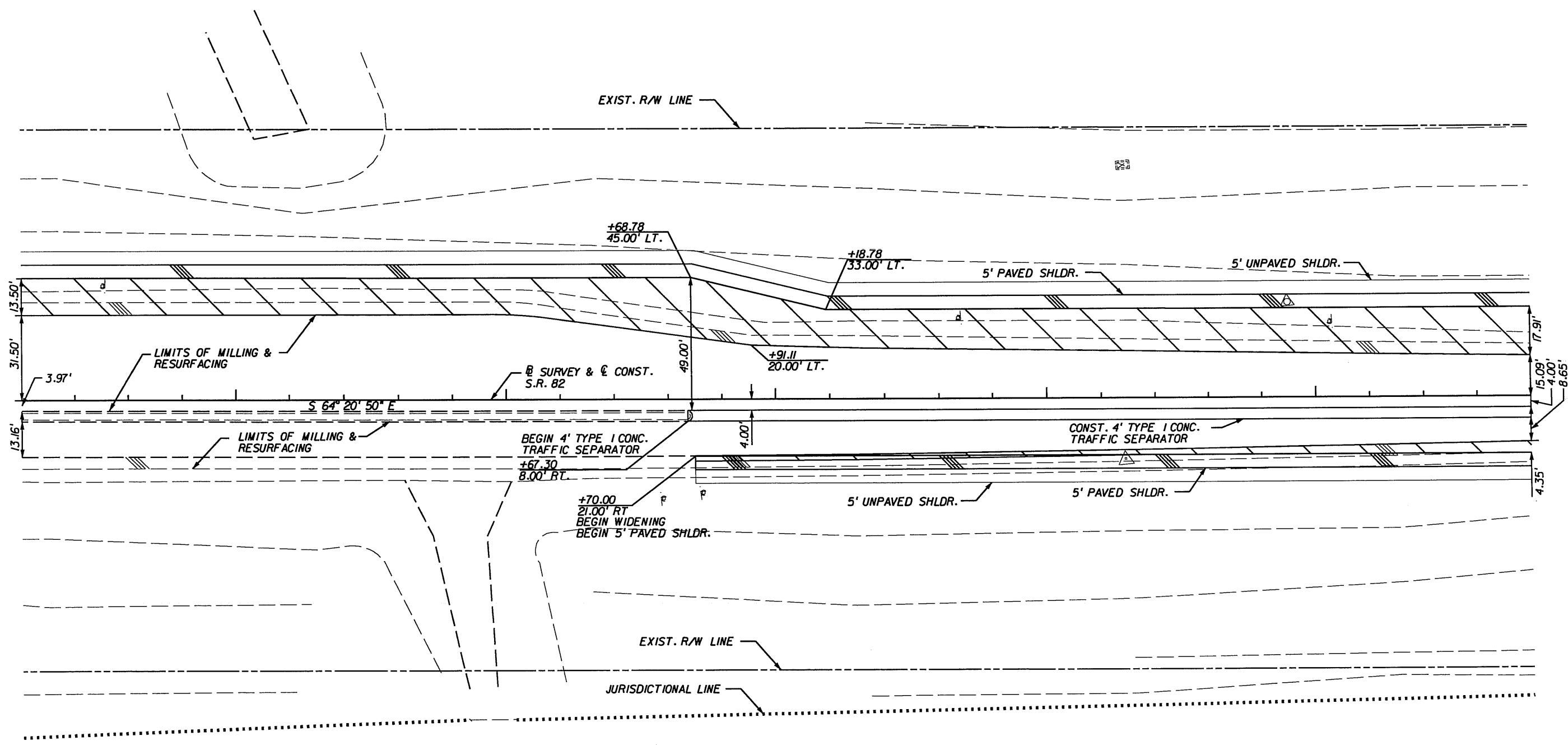
592

593

594

595

596



*Murphy*  
6/13/08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of SOUTHWEST FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/ds1111e.htm

**PLAN SHEET (4)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 591+20.00 TO STA. 596+80.00**

SHEET NO.  
 10

597

598

599

600

601

602

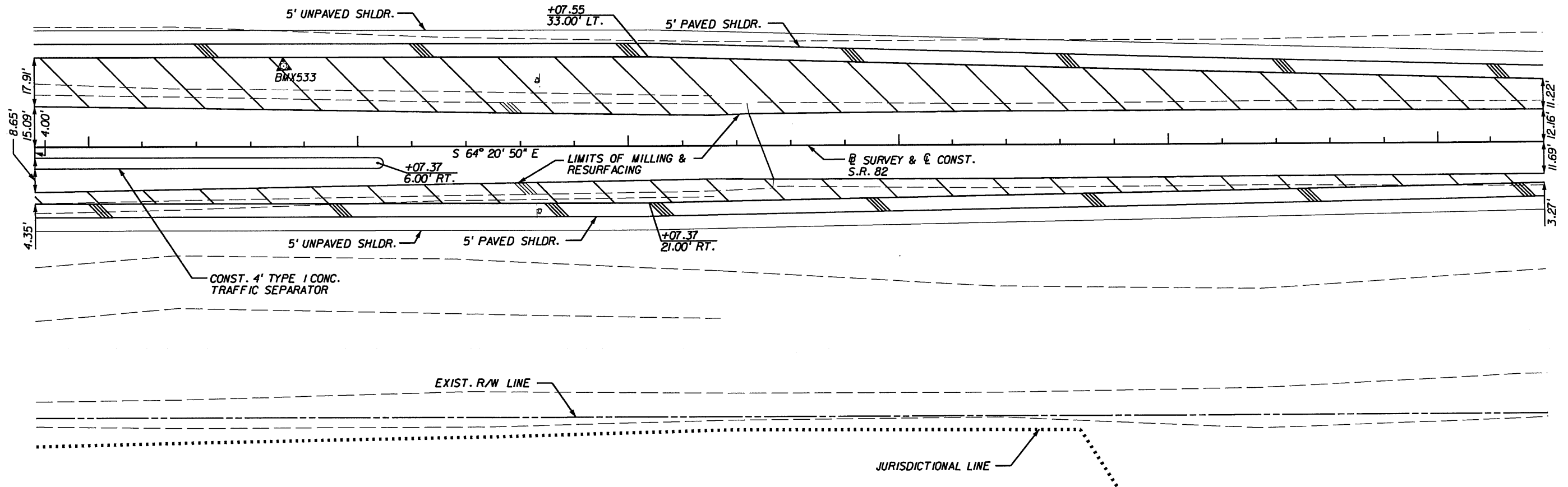
BM. NO. X533  
 STA. 597+72.40 29.88' LT.  
 STD. 1/2" DEEP ROD MON. IN PVC  
 16.2' NE OF E.O.P. S.R. 82  
 167.1' SE OF AIRPORT LEFT SIGN  
 94.1' NE OF DANIELS LEFT SIGN  
 ELEV. 29.018'

BM NO. 129  
 STA. 600+10.10 118.8' LT.  
 STD. 4"x4" FDOT CONC. MON.  
 106.17" NE OF E.O.P. S.R. 82  
 253.70" EAST OF GPS (#X533) WITNESS POST  
 235.05" SE OF WOOD PP  
 ELEV. 27.988'



BM 129

EXIST. R/W LINE



*Shawn Swets*  
 6/13/08

PAVEMENT WIDENING

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dot111e.htm

**PLAN SHEET (5)**  
**S.R. 82 & DANIELS PKWY.**

**STA. 596+80.00 TO STA. 602+40.00**

SHEET NO.

11

603

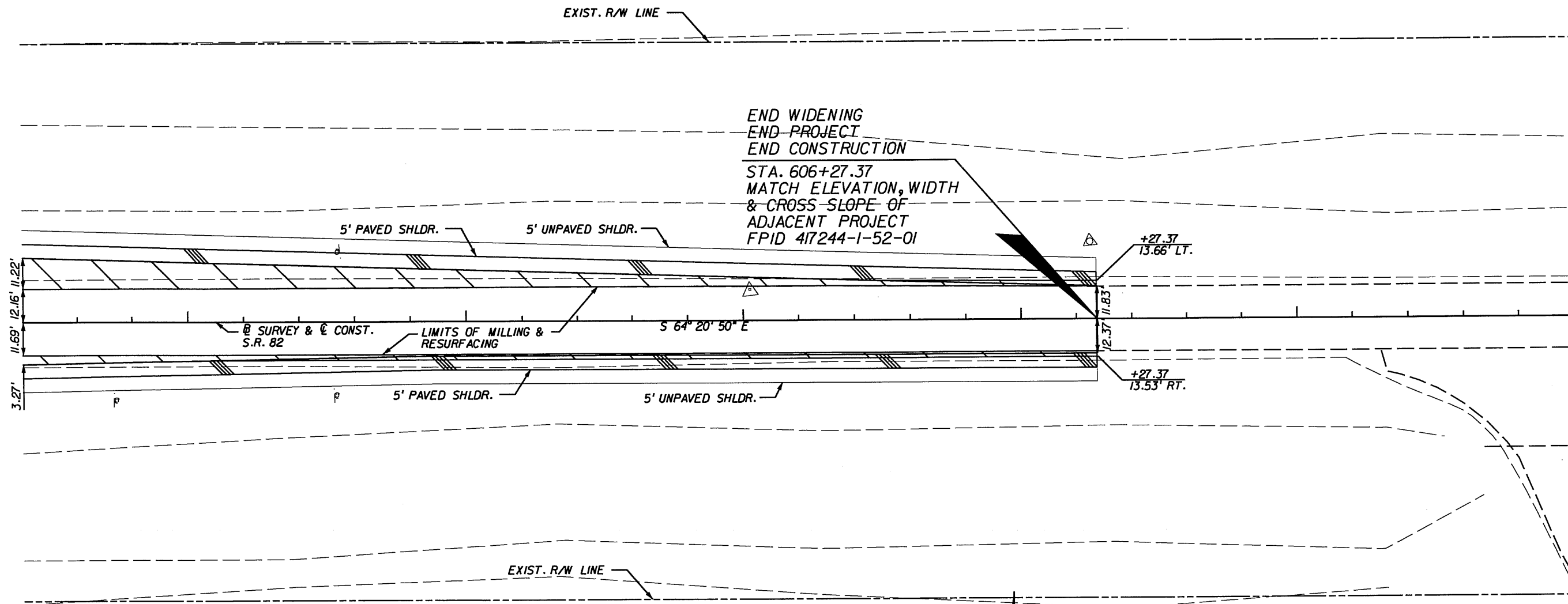
604

605

606

607

608



END WIDENING  
 END PROJECT  
 END CONSTRUCTION

STA. 606+27.37  
 MATCH ELEVATION, WIDTH  
 & CROSS-SLOPE OF  
 ADJACENT PROJECT  
 FPID 417244-1-52-01

5' PAVED SHLDR.

5' UNPAVED SHLDR.

SURVEY & CONST.  
S.R. 82

LIMITS OF MILLING &  
RESURFACING

S 64° 20' 50" E

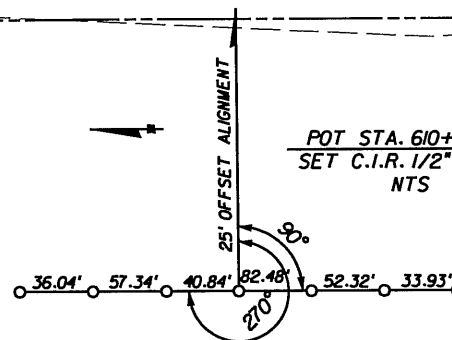
+27.37  
13.66' LT.

+27.37  
13.53' RT.

11.69'  
12.16'  
11.22'  
3.27'

EXIST. R/W LINE

POT STA. 610+00.00  
 SET C.I.R. 1/2" LB021  
 NTS



PAVEMENT WIDENING

*Shawn Swets*  
 06/13/08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/00111e.htm

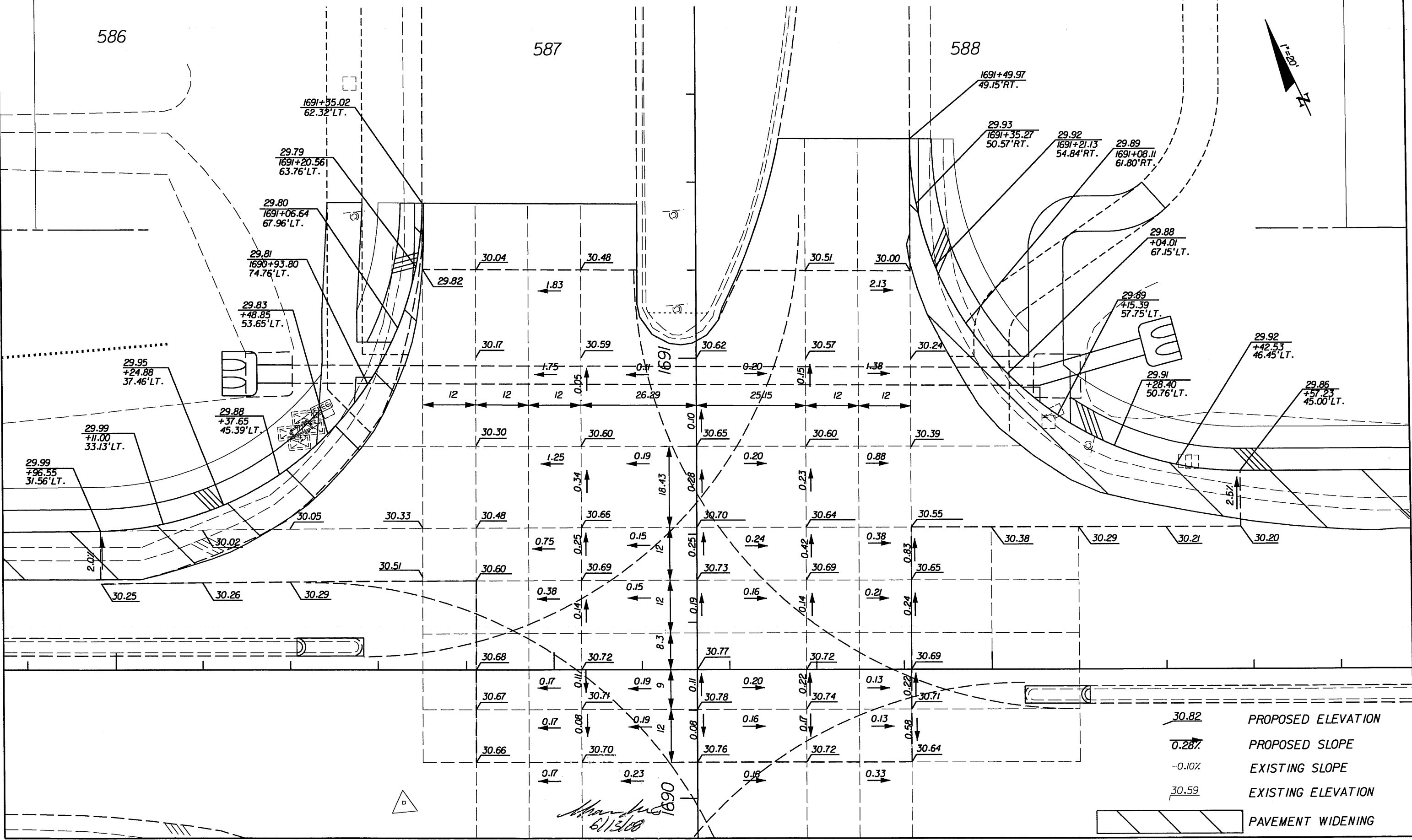
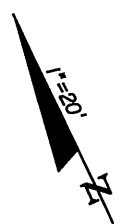
**PLAN SHEET (6)**  
**SR. 82 & DANIELS PKWY.**  
**STA. 602+40.00 TO STA. 606+27.37**

SHEET NO.  
 12

586

587

588



- 30.82 PROPOSED ELEVATION
- 0.28% PROPOSED SLOPE
- 0.10% EXISTING SLOPE
- 30.59 EXISTING ELEVATION
- PAVEMENT WIDENING

*Shawn D. Swets*  
6/13/08

NO.	DATE	BY	REVISIONS - DESCRIPTION

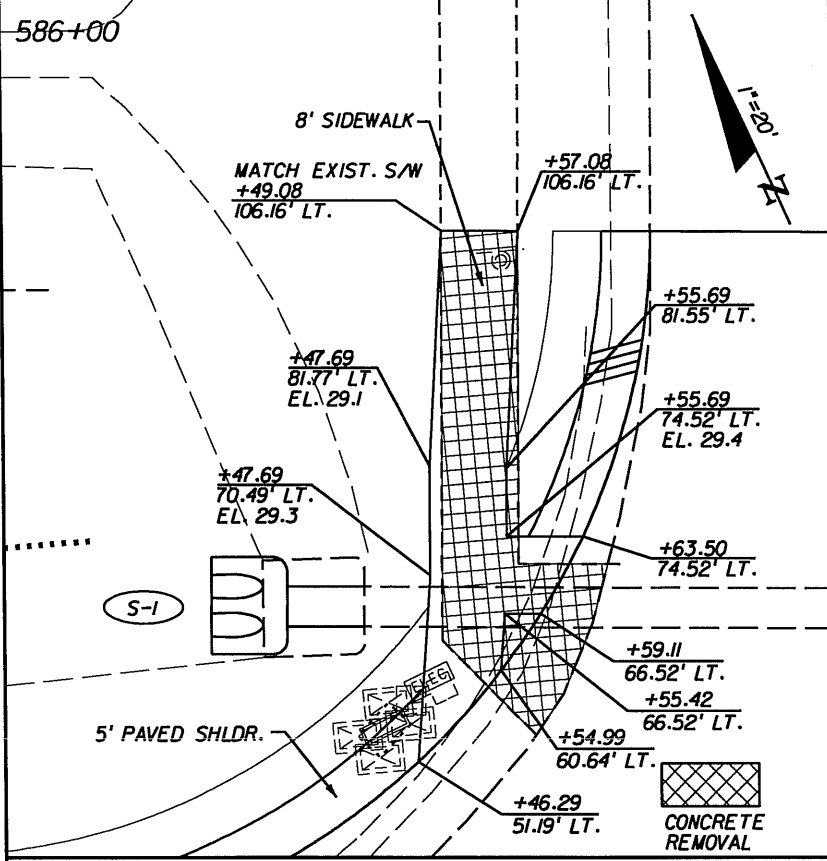
**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

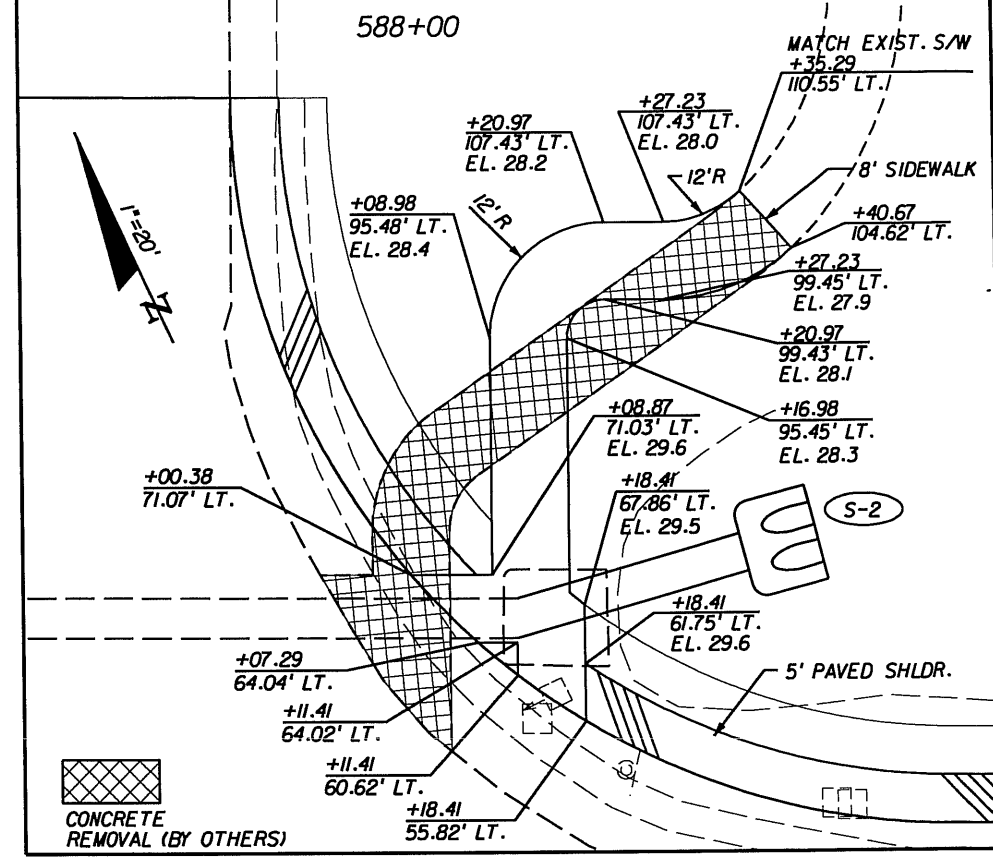
PUBLIC WORKS  
 LEE COUNTY  
 DEPARTMENT of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dot116.htm

**INTERSECTION DETAIL (D)**  
**S.R. 82 & DANIELS PKWY.**

SHEET NO.  
 13

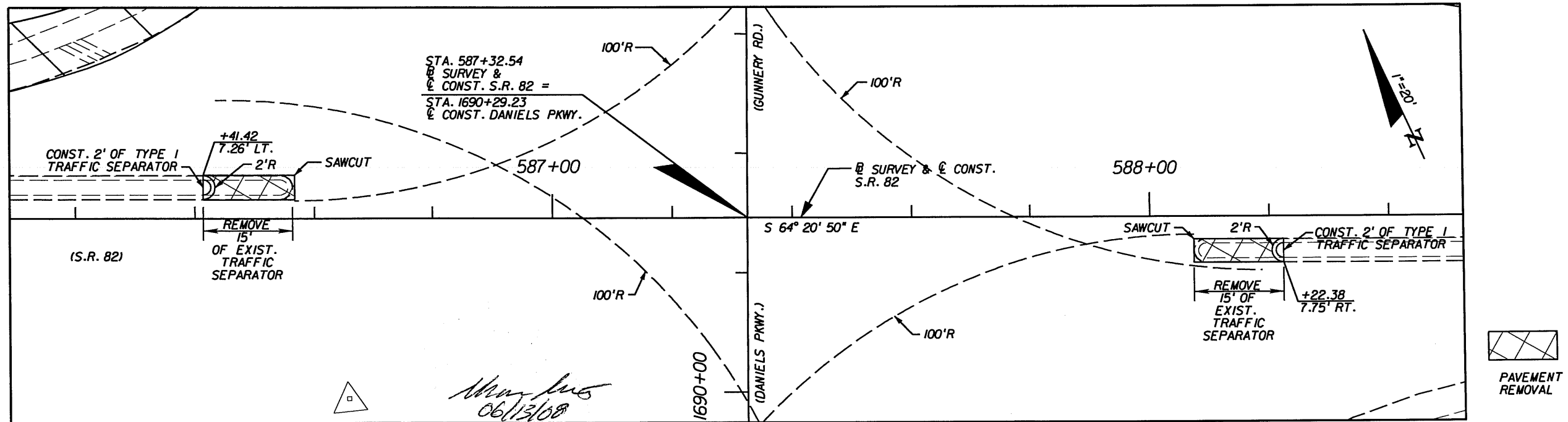


NORTHWEST CORNER  
S.R. 82 & GUNNERY RD.



NORTHEAST CORNER  
S.R. 82 & GUNNERY RD.

INTERSECTION  
S.R. 82 & DANIELS PKWY.



NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS  
 LEE COUNTY  
 DEPARTMENT  
 of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-6900 www.lee-county.com/publworks/dot111e.htm

**INTERSECTION DETAIL (2)**  
**S.R. 82 & DANIELS PKWY.**

SHEET NO.  
 14

44  
42  
40  
38  
36  
34  
32  
30  
28  
26  
24  
22

(S-2)  
STA. 588+37.60  
  
(S-1)  
STA. 586+30.12

(S-1)  
STA. 586+30.12 167.34' LT. @ SURVEY &  
@ CONST. S.R. 82  
CONST MITERED END SECTION  
INDEX NO. 272  
FL 26.6

@ SURVEY &  
@ CONST.  
S.R. 82

(S-2)  
STA. 588+37.60 (73.90' LT. @ SURVEY &  
@ CONST. S.R. 82)  
CONST MITERED END SECTION  
INDEX NO. 272  
FL 26.6

CONST. 8' OF DBL 19"x30" RCP  
  
CONST. CONC. JACKET  
(INDEX 280)  
EXIST. MES (TO BE REMOVED)

EXIST. 172' OF DBL 19"x30" RCP (TO REMAIN)

CONST. 24' OF DBL 19"x30" RCP  
FROM S-2  
  
CONST. CONC. JACKET  
(INDEX 280)  
EXIST. MES (TO BE REMOVED)

*Dawn M. Ratican*  
*6/10/08*

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

120 100 80 60 40 20 0 20 40 60 80 100 120

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**DAWN M. RATICAN, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60226

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTHWEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**S.R. 82**  
**DRAINAGE STRUCTURE SHEET**

SHEET NO.  
**15**

LEE COUNTY  
DEPARTMENT OF TRANSPORTATION  
MATERIALS AND RESEARCH

DATE OF SURVEY : OCTOBER 30, 2007  
SURVEY MADE BY : ALLIED ENGINEERING & TESTING, INC.  
SUBMITTED BY : JEFF D'HUYVETTER

LEE COUNTY CONTRACT PROJECT : 5064

DISTRICT : 1  
ROAD NAME : SR 82 & DANIELS RD  
COUNTY : LEE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 575+00 SURVEY ENDS STA. : 592+00

STRATUM NO.	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS				
	NO. OF TESTS	% ORGANIC	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP		NO. OF TESTS	RESISTIVITY ohms cm	CHLORIDE ppm	SULFATES ppm	pH
1	-	-	-	3	76.5-100	60.9-86.4	26.8-53.5	10.7-23.5	5.4-9.1	-	-	-	A-3	-	-	-	-	-	
2	-	-	-	3	68.2-87.1	43.8-65.4	33.9-46.7	22.1-30.0	11.3-20.9	-	-	-	A-2-4	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

-----  
**EMBANKMENT AND SUBGRADE MATERIAL**  
STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING  
∇ - WATER TABLE ENCOUNTERED  
GNE - GROUND WATER NOT ENCOUNTERED.

**NOTES:**

Ground water was not encountered at the time of our borings.

The material from Stratum Number 1 and 2 appears satisfactory for use in the embankment when utilized in accordance with Index 505. Roots should be removed prior to placement.

It has been the experience of the Department, within projects constructed within this general geographic area, that although preliminary borings did not indicate a constant presence of rock, rock was encountered while performing underground installations. Therefore, the contractor should consider the increased cost of all underground work activities while preparing the bid. All Costs of rock excavation shall be included in the appropriate items of work contained within the contract. NO extra compensations or time extension will be allowed for additional work directly associated with the splitting, excavation, crushing disposal, replacement of displaced volume of extracted rock with fill material or special handling of rock.

NO.	DATE	BY	REVISIONS - DESCRIPTION

ALLIED ENGINEERING AND TESTING, INC  
5850 CORPORATION CIRCLE  
FORT MYERS, FLORIDA 33905  
CERTIFICATE OF AUTHORIZATION NO. 4698

APPROVED BY:  
**PAUL J. D'HUYVETTER, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 59716  
*6/13/08*

PUBLIC WORKS  
LEE COUNTY DEPARTMENT  
of  
SOUTHWEST TRANSPORTATION  
FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**ROADWAY SOILS SURVEY**

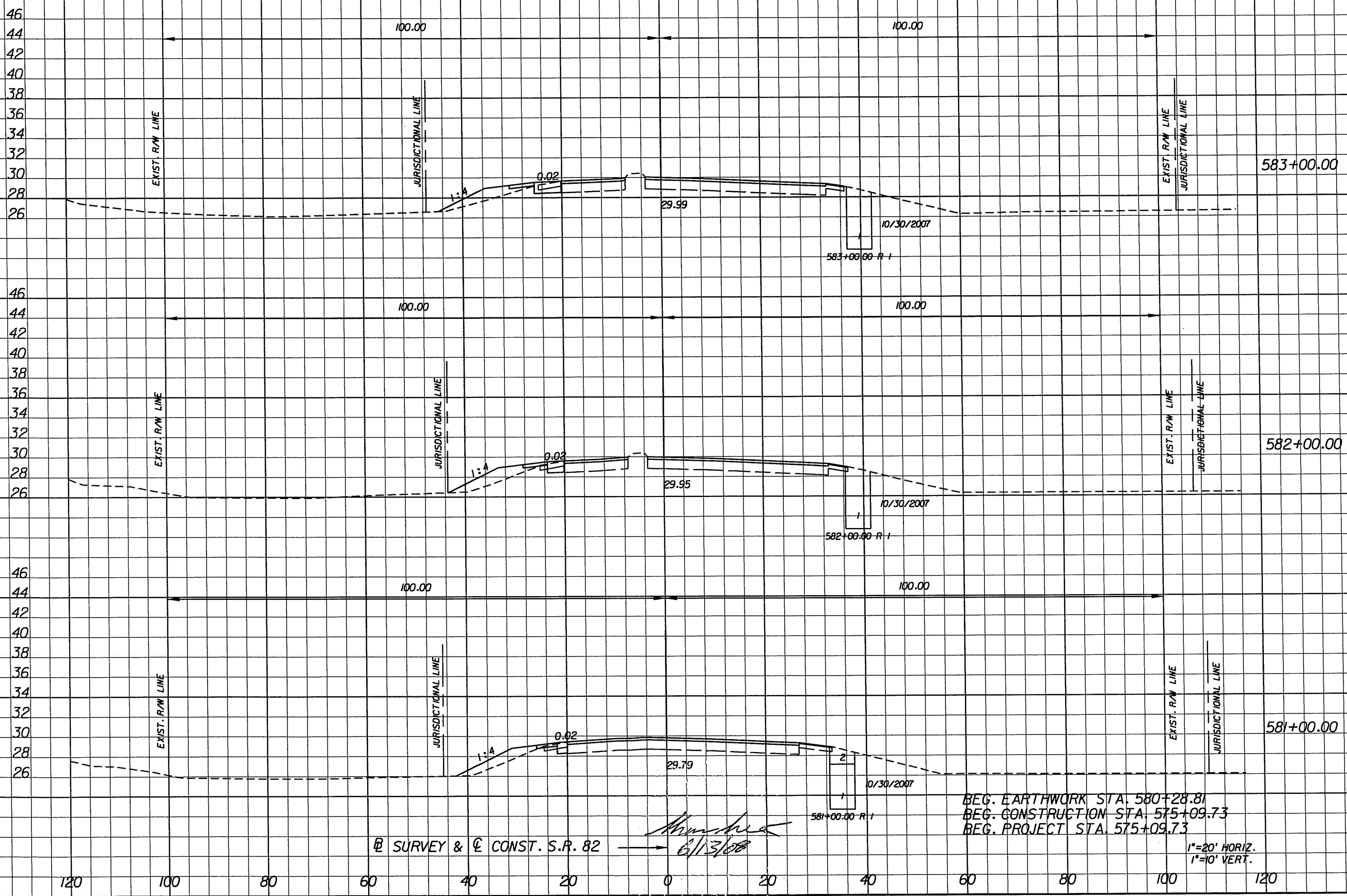
SHEET NO.  
**16**



Ⓢ SURVEY & Ⓒ CONST. S.R. 82

Regular Exc. Embankment

A	V	A	V
---	---	---	---



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
583+00.00	5		13	
582+00.00	3	16	15	51
581+00.00	3	11	12	50
	0	4	0	16
	0		0	

Ⓢ SURVEY & Ⓒ CONST. S.R. 82

*Shawn Swets*  
6/13/08

BEG. EARTHWORK STA. 580+28.81  
BEG. CONSTRUCTION STA. 575+09.73  
BEG. PROJECT STA. 575+09.73

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

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60274

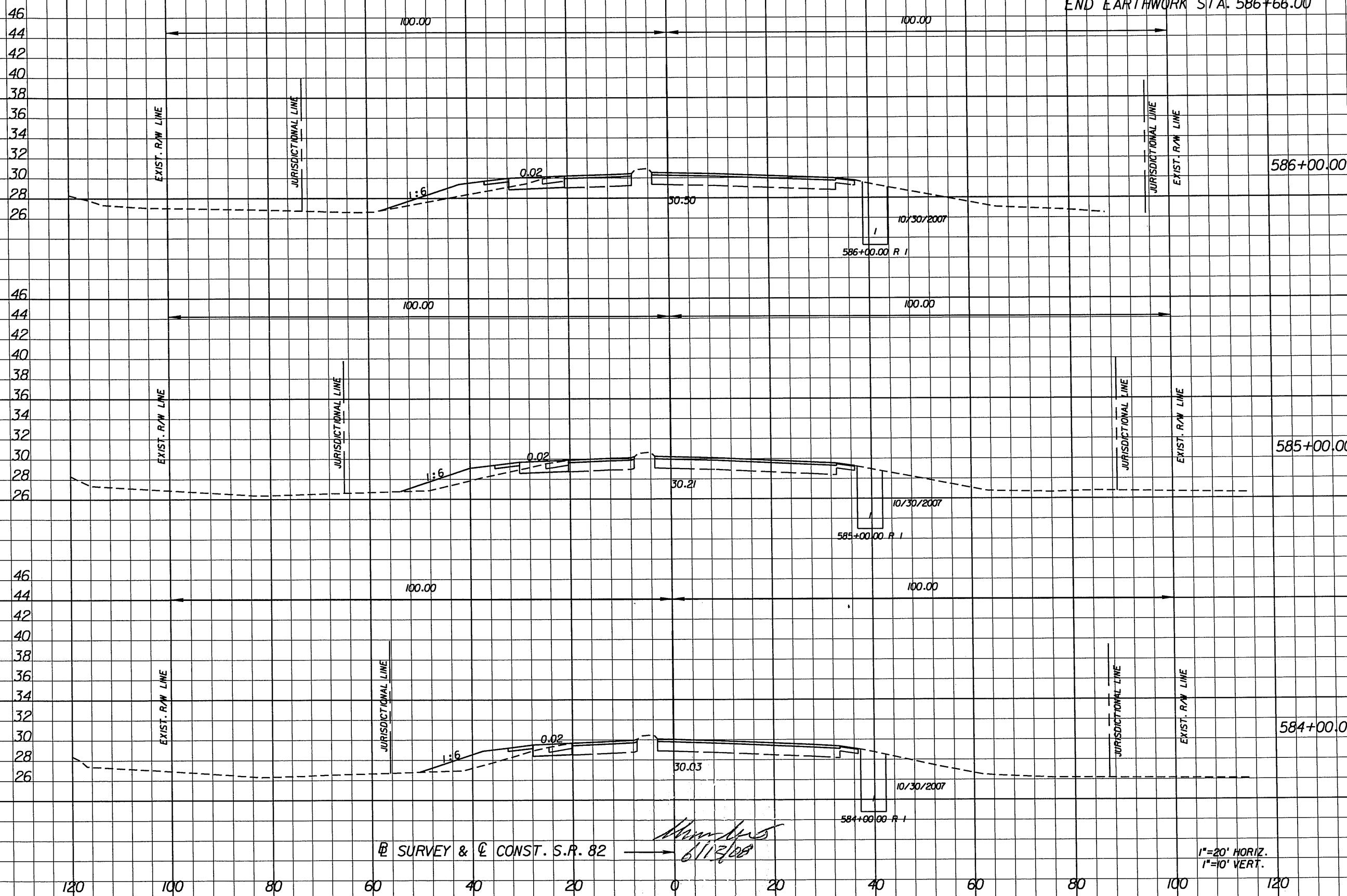
PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTH WEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-8900 www.lee-county.com/publicworks/dot11te.htm

**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
**17**

Ⓟ SURVEY & Ⓞ CONST. S.R. 82

END EARTHWORK STA. 586+66.00



Ⓟ SURVEY & Ⓞ CONST. S.R. 82

*Shawn Swets*  
6/13/08

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

Regular Exc.		Embankment	
A	V	A	V
0		0	
8	10	18	22
8	29	19	69
7	26	20	72
22		60	

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

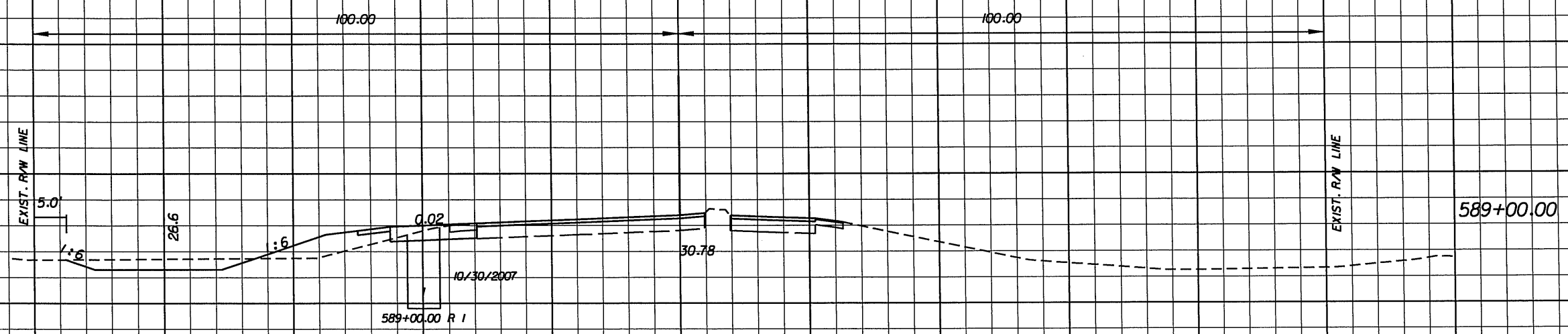
APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTHWEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-6900 www.lee-county.com/publicworks/csl111e.htm

**CROSS SECTIONS**  
**S.R. 82**

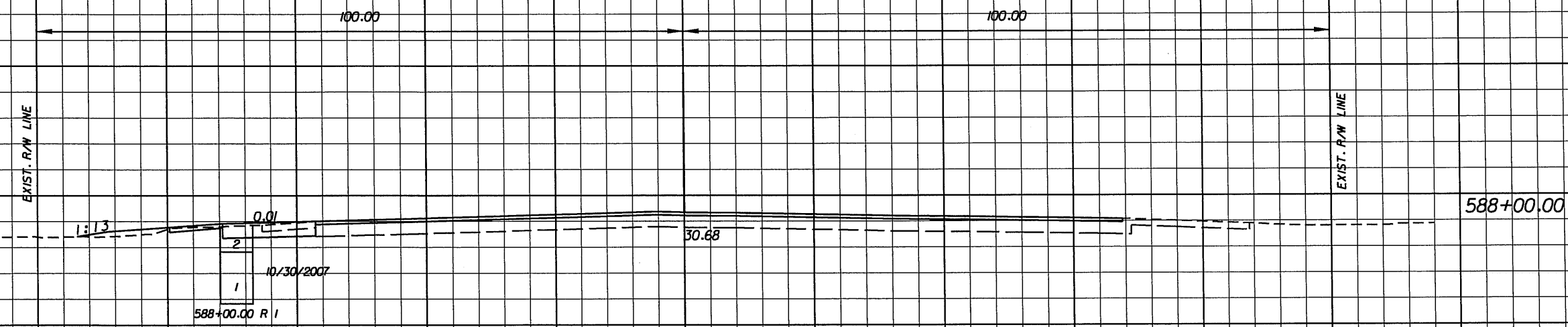
SHEET NO.  
**18**

46  
44  
42  
40  
38  
36  
34  
32  
30  
28



30		21	
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46  
44  
42  
40  
38  
36  
34  
32  
30



16		4	
----	--	---	--

BEGIN EARTHWORK STA. 587+82.00

*Shaw D. Swets*  
6/13/08

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

120 100 80 60 40 20 0 20 40 60 80 100 120

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

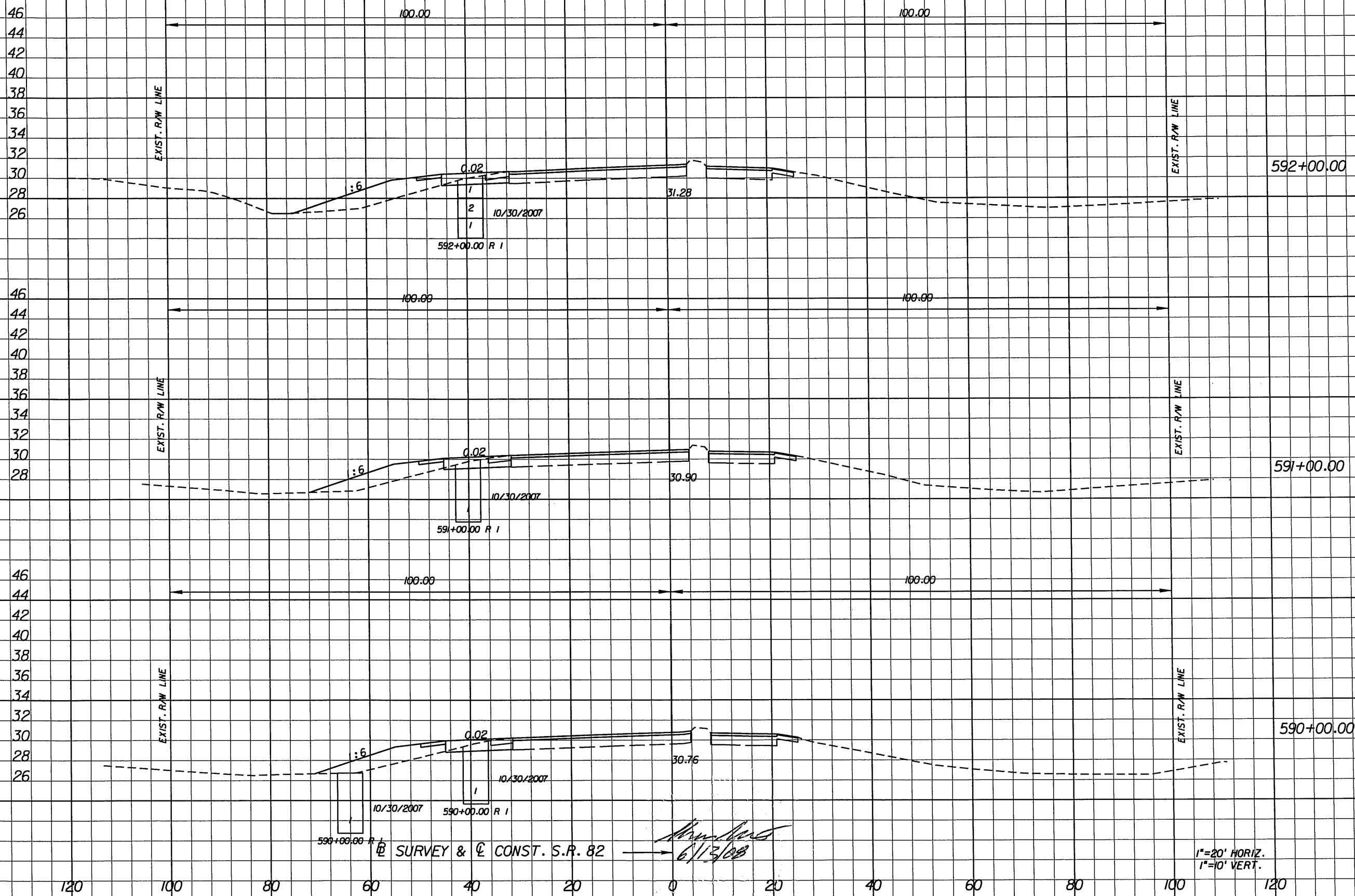
APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTHWEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
12391 419-8900 www.lee-county.com/publicworks/dot111e.htm

**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
**19**

Regular Exc.		Embankment	
A	V	A	V
9		37	
	36		124
10		30	
	37		108
10		29	
	74		92



NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dot111a.htm

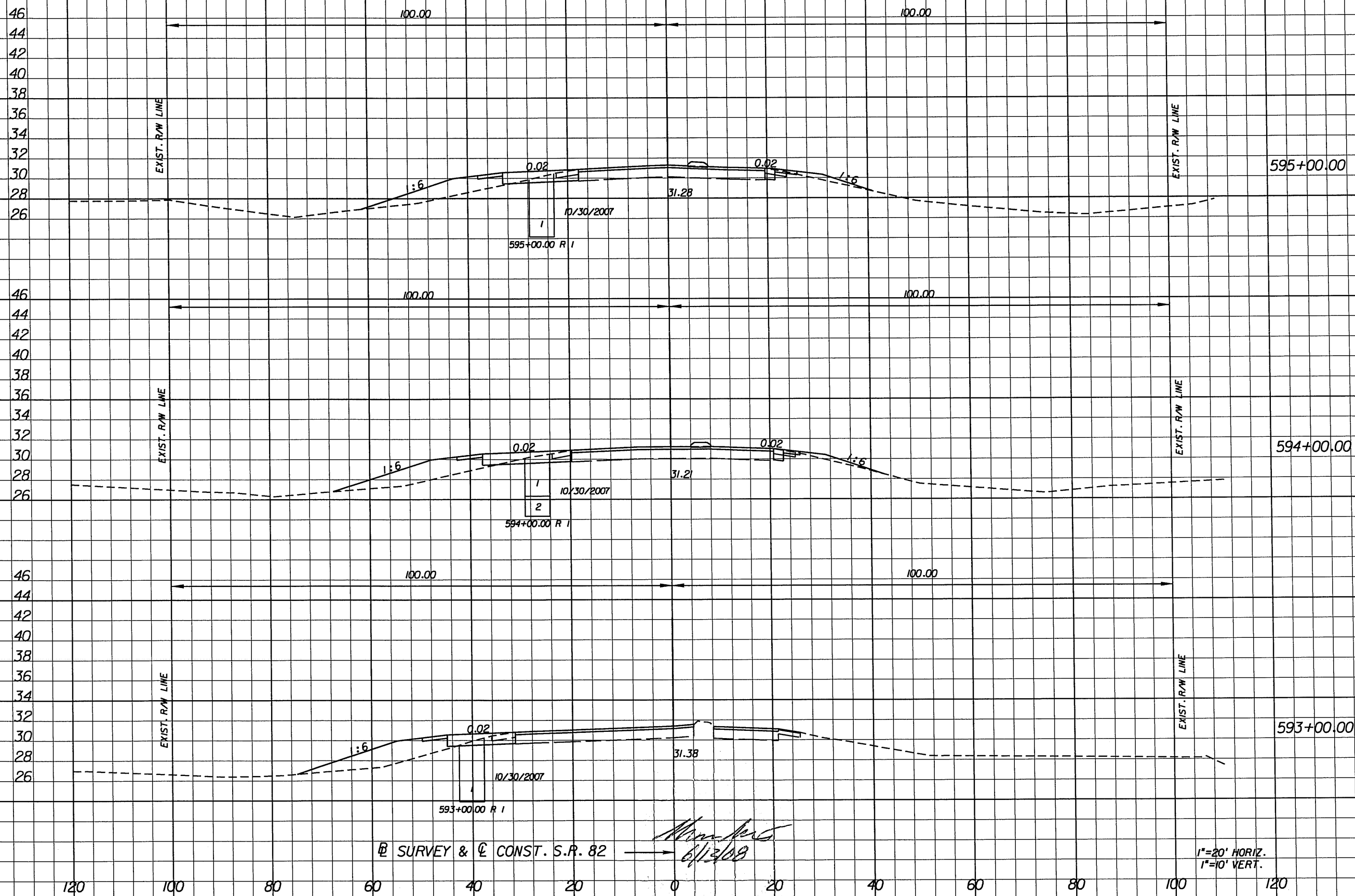
**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
 20

Ⓢ SURVEY & Ⓢ CONST. S.R. 82

Regular Exc. Embankment

A V A V



Station	Regular	Exc.	Embankment
	A	V	A V
595+00.00	11		35
594+00.00	12	43	144
593+00.00	8	37	153
		31	143

Ⓢ SURVEY & Ⓢ CONST. S.R. 82

*Shawn Swets*  
6/13/08

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

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

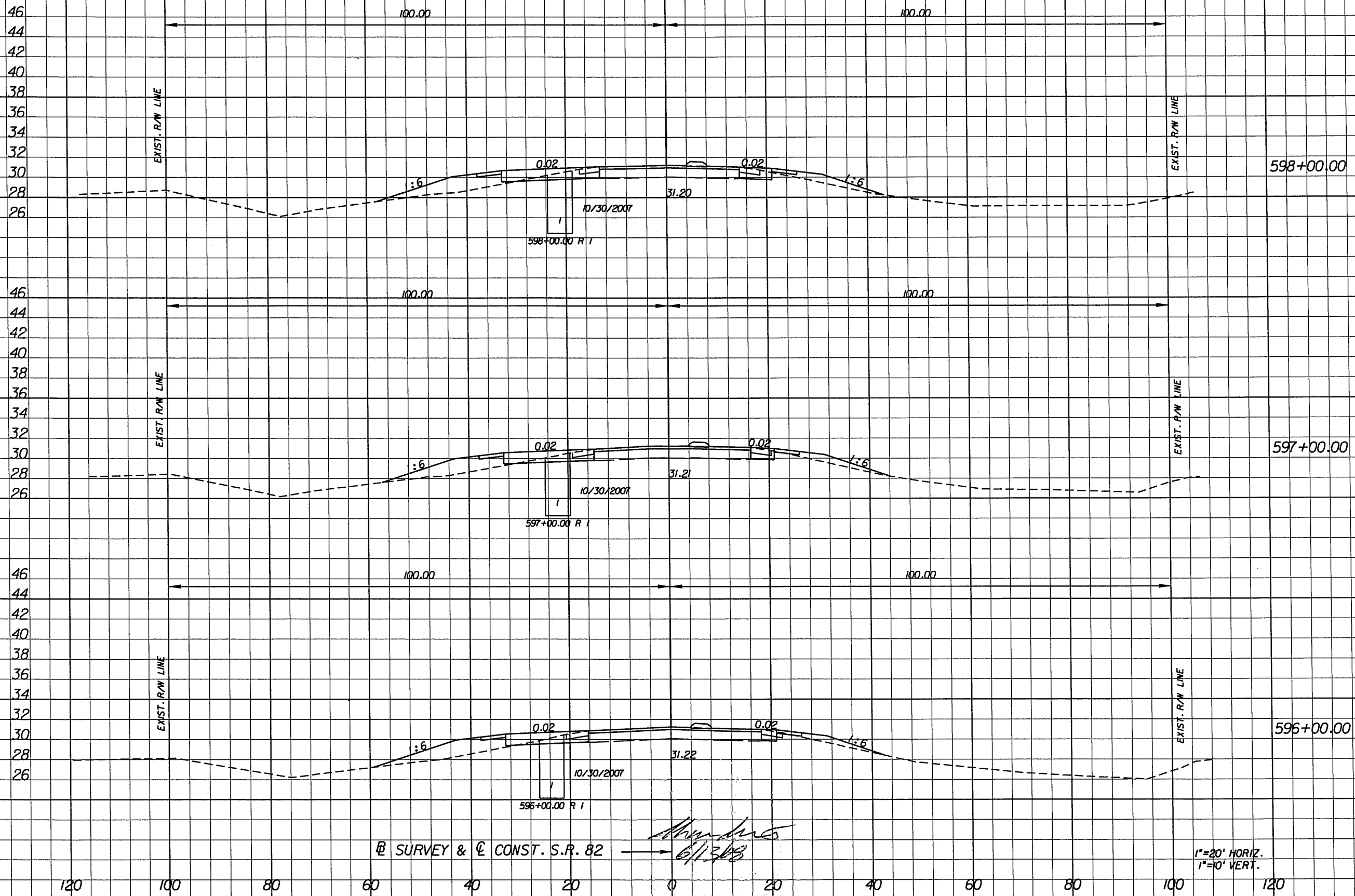
APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of  
SOUTHWEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
12391 479-8900 www.lee-county.com/publworks/dot111e.htm

**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
21

Regular	Exc.	Embankment
A	V	A V
16		35
	56	125
14		33
	47	122
12		33
	42	128



*Shawn Swets*  
6/13/08

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

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 60274

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTHWEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
12391 479-8900 www.lee-county.com/publicworks/dot111e.htm

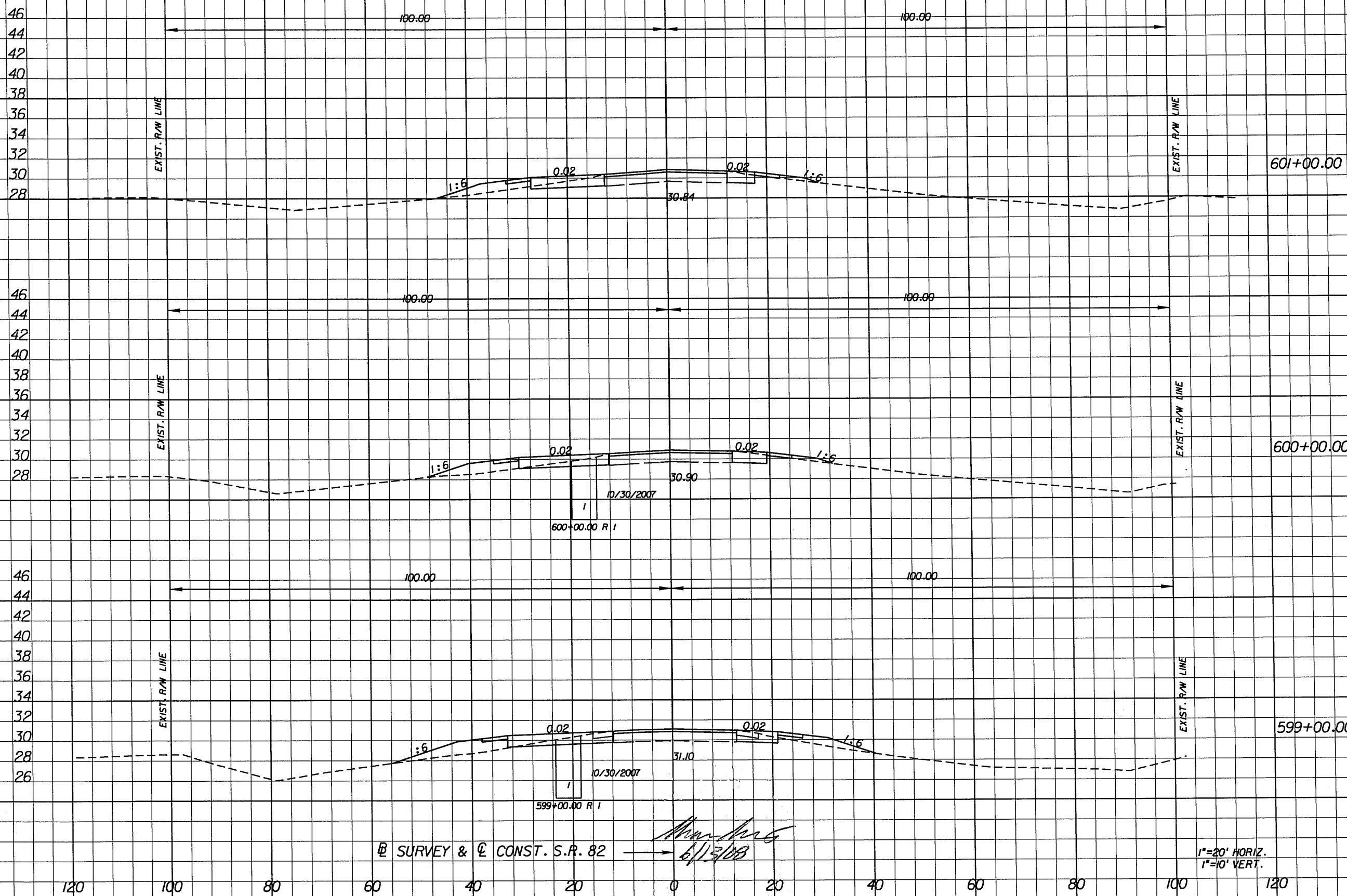
**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
**22**

Ⓢ SURVEY & Ⓢ CONST. S.R. 82

Regular Exc. Embankment

A V A V



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
601+00.00	15		14	
600+00.00	16	57	16	54
599+00.00	19	65	29	83
		65		118

Ⓢ SURVEY & Ⓢ CONST. S.R. 82

*Shawn Swets*  
6/13/08

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

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

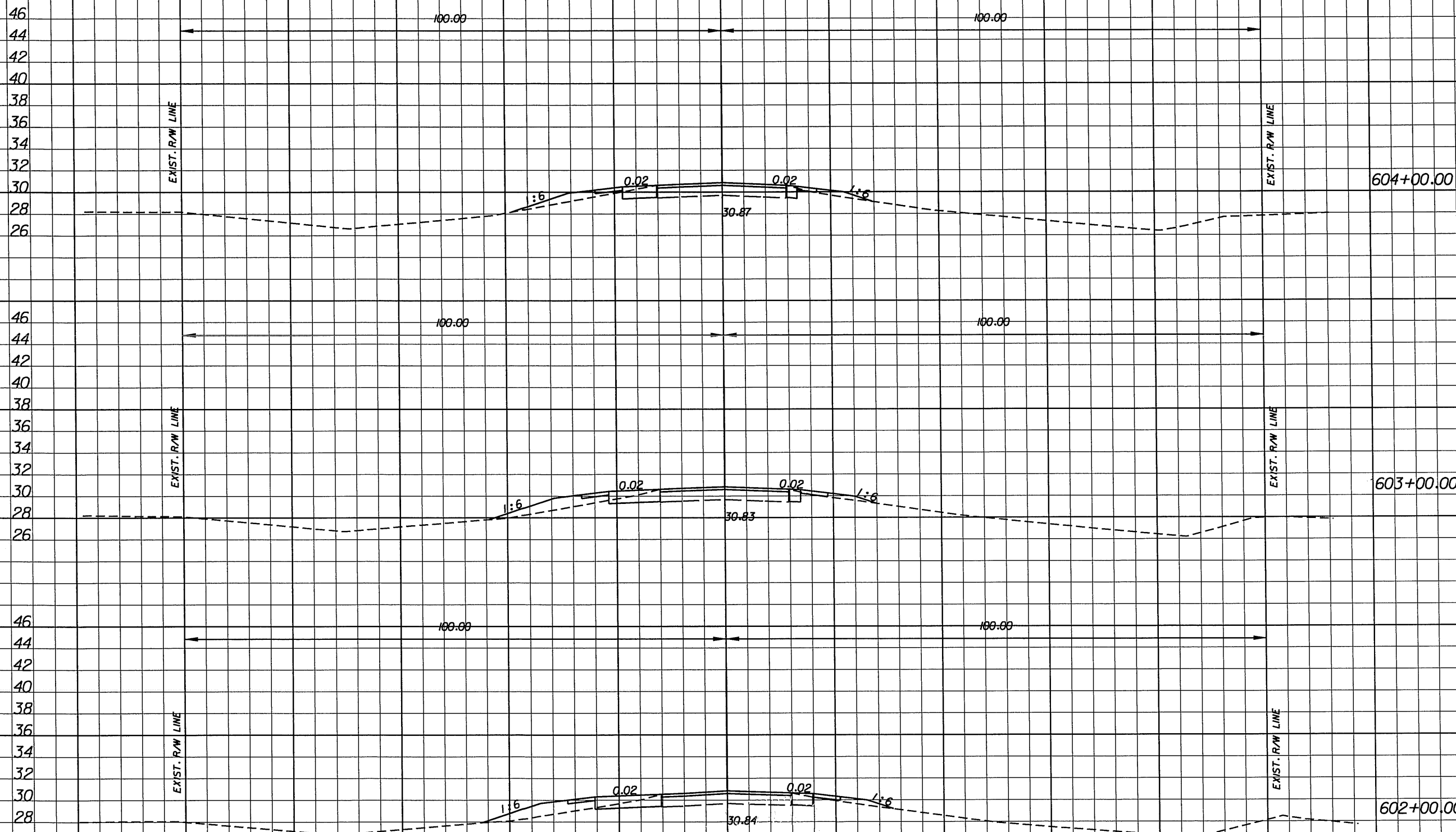
APPROVED BY:  
**SHAWN D. SWETS, P.E.**  
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PUBLIC WORKS  
LEE COUNTY  
DEPARTMENT of  
SOUTHWEST TRANSPORTATION  
FLORIDA  
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12391 479-8900 www.lee-county.com/publicworks/dot11e.htm

**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
**23**

Ⓟ SURVEY & Ⓞ CONST. S.R. 82



Ⓟ SURVEY & Ⓞ CONST. S.R. 82

*Shawn Swets*  
6/13/08

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

Regular		Exc.		Embankment	
A	V	A	V	A	V
8				12	
	31				55
9				18	
	36				70
11				20	
	47				62

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
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 CERTIFICATE OF AUTHORIZATION NO. 3114

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**CROSS SECTIONS**  
**S.R. 82**

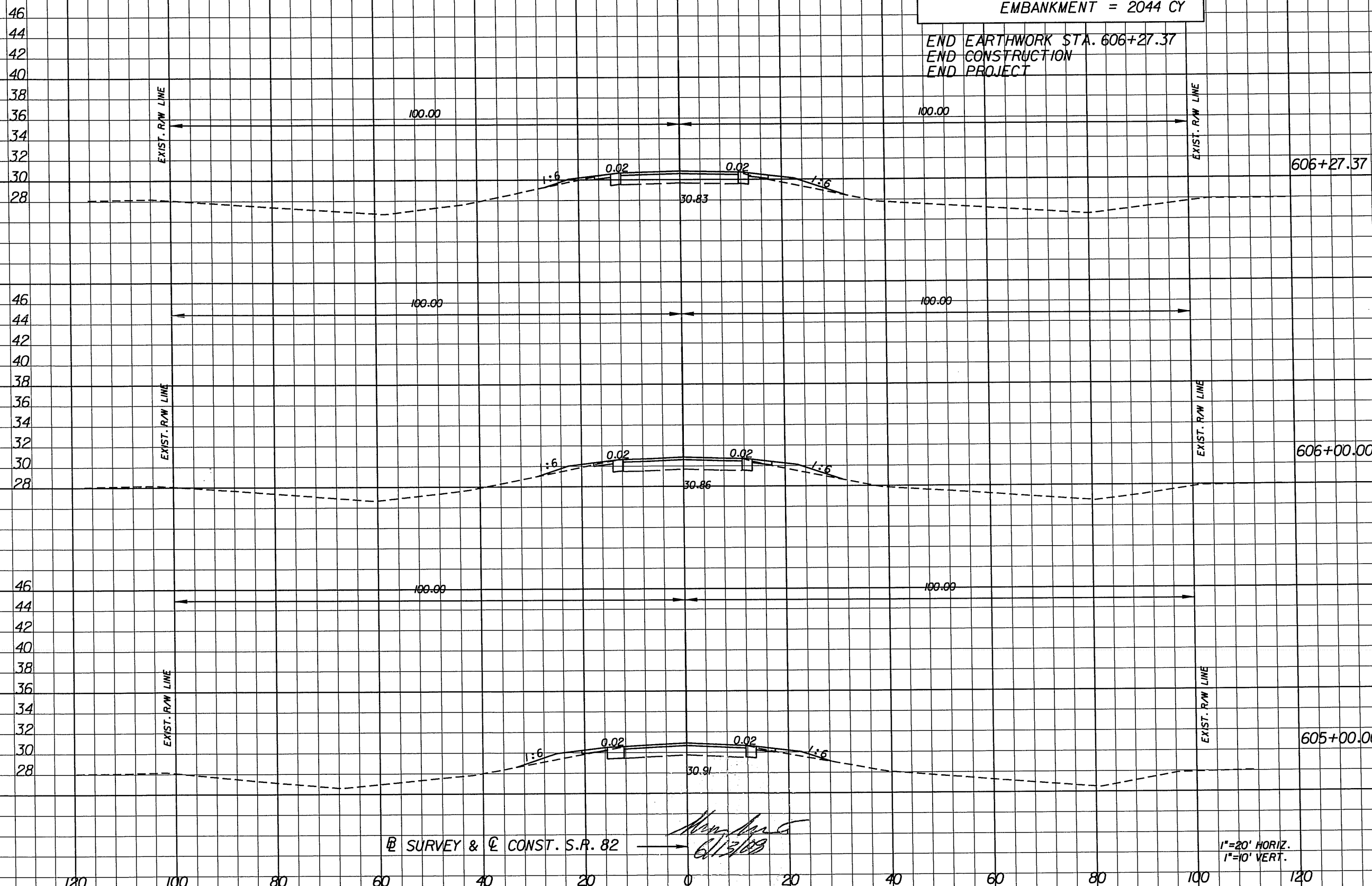
SHEET NO.  
**24**



**SUMMARY OF EARTHWORK**  
 ROADWAY EXCAVATION = 966 CY  
 EMBANKMENT = 2044 CY  
 END EARTHWORK STA. 606+27.37  
 END CONSTRUCTION  
 END PROJECT

Regular Exc. Embankment

Regular Exc.		Embankment	
A	V	A	V
5		8	
	5		8
5		8	
	21		29
6		8	
	26		37



*Shawn D. Swets*  
 6/13/09

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

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**CROSS SECTIONS**  
**S.R. 82**

SHEET NO.  
**25**

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONTAINS REFERENCES TO THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER PLANS SHEETS WITHIN THIS SET OF CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (REFERRED TO AS THE KEY SHEET) CONTAINS AN INDEX OF ROADWAY PLANS. THE SWPPP INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN (REQUIRED BY SPECIFICATION SECTION 104), AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

**SECTION 1.0**

**1.A. NATURE OF CONSTRUCTION ACTIVITY:**

THIS PROJECT INCLUDES THE MILLING AND RESURFACING OF A TWO LANE RURAL SECTION OF SR 82 FROM APPROXIMATELY 1200' WEST AND 1900' EAST OF DANIELS PARKWAY / GUNNERY ROAD INTERSECTION. THE ROADWAY CONSISTS OF 12' LANES AND 10' SHOULDERS WITH 5' PAVED. THE WESTBOUND SR 82 TO SOUTHBOUND DANIELS PARKWAY LEFT TURN LANES WILL BE WIDENED TO ACCOMMODATE DUAL LEFT TURN LANES. THE PROJECT IS APPROXIMATELY 0.59 MILES LONG AND IS LOCATED IN SECTIONS 4 AND 5 WITHIN TOWNSHIP 45S AND RANGE 26E IN LEE COUNTY.

**1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:**

THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE PLAN THAT IS EQUAL TO OR BETTER AT CONTROLLING EROSION AND SEDIMENT AND IS APPROVED BY THE ENGINEER. THE DETAILED SEQUENCE OF CONSTRUCTION ACTIVITIES FOR THE ENTIRE PROJECT CAN VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR. AS REFERENCED IN SPECIFICATION 104, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DETAILED SEQUENCE OF CONSTRUCTION ACTIVITIES FOR ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT AND SHALL INCLUDE IT IN THE CONTRACTOR'S EROSION CONTROL PLAN.

**STEPS:**

1. PLACEMENT OF ALL EROSION CONTROL DEVICES.
2. CLEARING AND GRUBBING, EARTHWORK AND STORM SEWER CONSTRUCTION. ALL STORM SEWER SHALL BE CONSTRUCTED IN THE UPSTREAM DIRECTION.
3. EARTHWORK ASSOCIATED WITH ROADWAY, SUBGRADE, BASE, AND PAVEMENT.
4. FINAL SEED AND MULCH AND/OR SODDING OF THE UNPAVED CONTROL DEVICES FROM THE CONTRACTOR.

**1.C. AREA ESTIMATES:**

- TOTAL SITE AREA = 14.36 AC
- TOTAL DISTURBED AREA = CLEARING & GRUBBING AREA

**1.D. RUNOFF COEFFICIENTS FOR:**

- GRASS AND OTHER PERVIOUS AREAS: C = 0.35
- IMPERVIOUS AREAS (ROADS, SWS, BLDGS, ETC): C = 0.95
- DISTURBED AREAS (DURING CONSTRUCTION): C = 0.40

**CALCULATED WEIGHTED RUNOFF COEFFICIENT:**

**RUNOFF COEFFICIENT BEFORE CONSTRUCTION CW(B):**

- IMPERVIOUS AREA = 3.77 AC
- PERVIOUS AREA = 10.59 AC

$CW(B) = (10.59 \text{ AC} (.35) + 3.77 \text{ AC} (.95)) / 14.36 \text{ AC} = 0.51$

**RUNOFF COEFFICIENTS DURING CONSTRUCTION CW(D):**

$CW(D) = (3.77 \text{ AC} (.95) + 9.64 \text{ AC} (.35) + 0.95 \text{ AC} (.4)) / 14.36 = 0.51$

**RUNOFF COEFFICIENTS AFTER CONSTRUCTION CW(A):**

- IMPERVIOUS AREA = 4.72 AC
- PERVIOUS AREA = 9.64 AC

$CW(A) = (4.72 \text{ AC} (.95) + 9.64 \text{ AC} (.35)) / 14.36 = 0.55$

**1.D.1. TO SUMMARIZE, PER NOTE 1.D ABOVE:**

THE RUNOFF COEFFICIENT BEFORE CONSTRUCTION (0.51) IS LESS THAN THE RUNOFF COEFFICIENT AFTER CONSTRUCTION (0.55).

**1.E. SOILS DATA:**

BASED ON THE USDA NRCS LEE COUNTY SCS SOIL SURVEY, THE PROJECT SOILS CONSIST OF BOCA FINE SAND, OLDSMAR SAND, AND MALABAR FINE SAND.

**OUTFALL LOCATIONS:**

LAT 26°29'58"N LONG 81°16'22"W

**1.F. SITE MAP:**

THE TYPICAL SECTION SHEET AND LOCATION MAP ON THE KEY SHEET DESCRIBE AND LOCATE THE SITE.

**AREAS OF SOIL DISTURBANCE:**

SOIL DISTURBANCE WILL EXIST WHERE THERE IS CONSTRUCTION OF THE PROPOSED ROADWAY.

**AREAS NOT TO BE DISTURBED:**

SEE AREAS SHOWN ON ROADWAY SHEETS.

**LOCATIONS OF CONTROLS:**

TEMPORARY AND PERMANENT STABILIZATION PRACTICES ARE DESCRIBED IN THE CONSTRUCTION PLANS.

**SURFACE WATERS:**

THERE ARE NO ANTICIPATED SURFACE WATER IMPACTS ASSOCIATED WITH THIS PROJECT.

**DISCHARGE POINTS TO SURFACE WATERS:**

NOT APPLICABLE

**1.G. WETLAND IMPACTS:**

THERE ARE NO ANTICIPATED WETLAND IMPACTS ASSOCIATED WITH THIS PROJECT.

**SECTION 2.0**

CONTROLS NARRATIVE-SEQUENCE OF ACTIVITIES AND IMPLEMENTATION OF EROSION CONTROL MEASURES:

ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE TREATED IN DETAIL IN THE CONSTRUCTION PLAN SET, SUPPLEMENTED BY THE "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (2007) AND THE "FDOT ROADWAY DESIGN STANDARDS" (2008).

THE CONTRACTOR WILL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A SPECIFIC CONSTRUCTION SCHEDULE FOR IMPLEMENTATION. THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OF MATERIALS TO ADAPT TO SEASONAL VARIATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE REQUIRED AND FOR ASSISTING IN AND OBTAINING DEPLOYMENT SCHEDULES FOR IMPLEMENTATION OF APPLICABLE EROSION CONTROL DEVICES. IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES 100 THROUGH 105.

THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL, RECEIVING WATER BODY, OR OTHERWISE VIOLATING STATE AND FEDERAL PERMIT REQUIREMENTS.

**SECTION 2.0 CONTROLS**

**2.A. EROSION AND SEDIMENT CONTROLS:**

THE FOLLOWING DISCUSSION DEFINES GENERAL GUIDELINES FOR THE SEQUENCES OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. AS REFERENCED IN SPECIFICATION 104, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN AND INCLUDE IT IN HIS EROSION CONTROL PLAN. ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE TREATED IN DETAIL IN THE "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THE CONTRACTOR WILL GENERATE AN IMPLEMENTATION SCHEDULE FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES. ALL PHASES OF CONSTRUCTION: INSTALL EROSION CONTROL MEASURES AS SHOWN IN THE EROSION CONTROL PLAN.

CONTROL DUST GENERATION BY APPROPRIATE EROSION CONTROL MEASURES AS APPROVED BY THE ENGINEER.

*Dawn M. Ratican*  
6/10/08

**2.A.1 STABILIZATION PRACTICES - PERMANENT:**

ASPHALT AND SOD SURFACES IN ACCORDANCE WITH SPECIFICATION SECTION 575. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE AFTER MORE THAN 7 DAYS. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

**2.A.2 STRUCTURAL PRACTICES - TEMPORARY:**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY EROSION CONTROL, INCLUDING BUT NOT LIMITED TO SILT FENCES, ITEMS AS INDICATED WITHIN THE CONTRACT DOCUMENTS, CONTRACTOR'S EROSION CONTROL PLAN, OR AS REQUIRED PER APPLICABLE STANDARDS OR THE PROJECT ENGINEER. UTILIZE ROCK BAGS, SYNTHETIC BALES, SILT FENCE, & TURBIDITY BARRIER IN ACCORDANCE WITH INDEX 102 AND SPECIFICATION 104. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO INITIATING SOIL DISTURBING ACTIVITIES THAT WILL OCCUR UPSTREAM OF THE PROPOSED CONTROL. AS REFERENCED IN SPECIFICATION 104, THE CONTRACTOR'S EROSION CONTROL PLAN SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS GENERATED FROM EXPOSED AREAS OF THE SITE.

**2.B. STORMWATER MANAGEMENT:**

STORMWATER POLLUTION CONTROL UPON CONSTRUCTION COMPLETION WILL BE ACCOMPLISHED THROUGH THE USE OF STORM SEWER CONVEYANCE AND CONTROLLED DISCHARGE FROM THE ROADSIDE DITCHES/SWALES TO EACH OUTFALL. THE CONTRACTOR SHALL PREVENT UNAUTHORIZED MATERIAL FROM ENTERING SURFACE WATERS AND WETLAND AREAS ADJACENT TO THE PROJECT.

**SECTION 3.0 OTHER CONTROLS**

**3.A.1 WASTE DISPOSAL:**

THE CONTRACTOR'S EROSION CONTROL PLAN SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES.

**3.A.2 OFFSITE VEHICLE TRACKING AND DUST CONTROL:**

CONTROL METHODS:

1. USE OF STABILIZED ENTRANCE OR SOIL TRACKING PREVENTION DEVICES AS REQUIRED IN ACCORDANCE WITH STANDARD INDEX 106. SEE NOTE 3.A.2.B BELOW.
2. LOADED HAUL TRUCKS TO BE COVERED BY TARPAULIN.

THE CONTRACTOR'S EROSION CONTROL PLAN SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AS WELL AS THE GENERATION OF DUST.

**3.A.2.A OTHER - EXCESS DIRT AND DUST:**

EXCESS DIRT ON ROADWAYS SHALL BE REMOVED DAILY. THE CONTRACTOR SHALL UTILIZE ROADWAY SWEEPERS IN CONJUNCTION WITH DUST GENERATING ACTIVITIES (SUCH AS EXCAVATION OPERATIONS) AS A MEANS TO PROVIDE POLLUTION CONTROL.

THE CONTRACTOR'S EROSION CONTROL PLAN SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST.

**3.A.2.B CONSTRUCTION ENTRANCES:**

THE CONTRACTOR, AT HIS EXPENSE, SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE PROJECT CONSTRUCTION ENTRANCE OR ENTRANCES THAT PROVIDE ACCESS TO PUBLIC ROADWAYS FROM ONSITE AND OFFSITE STOCKPILE LOCATIONS. THE CONTRACTOR'S PROPOSED CONSTRUCTION ENTRANCE(S) SHALL PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WATERWAYS. THE PROJECT ENGINEER SHALL REVIEW AND APPROVE THE PROPOSED CONSTRUCTION ENTRANCE.

THE CONTRACTOR SHALL CONTACT THE COUNTY PERMITS COORDINATOR IF ANY NON-PERMITTED IMPACT OCCURS TO WETLANDS DURING CONSTRUCTION.

**3.A.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS:**

ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS. AS REFERENCED IN SPECIFICATION 104, THE CONTRACTOR'S EROSION CONTROL PLAN SHALL DESCRIBE THE PROPOSED METHODS TO COMPLY WITH LOCAL AND STATE REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

**3.A.4 FERTILIZERS AND PESTICIDES:**

THE CONTRACTOR'S EROSION CONTROL PLAN SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF EITHER SECTION 570 OR 577 OF THE STANDARD SPECIFICATIONS.

**3.B NON-STORMWATER DISCHARGES:**

THE CONTRACTOR'S EROSION CONTROL PLAN SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE-FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE PROJECT ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS AND REGULATIONS OF LOCAL, STATE, AND/OR FEDERAL AGENCIES HAVING JURISDICTION.

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE COUNTY PROJECT MANAGER.

**SECTION 4.0 MAINTENANCE**

ITEM	MAINTENANCE	PROPOSED REPLACEMENT INTERVAL
SILT FENCE	SPEC 104	EVERY 12 MONTHS

EROSION DEPOSITS THAT REACH 1/2 THE HEIGHT OF THE SYNTHETIC BALES SHALL BE REMOVED BY THE CONTRACTOR. EROSION DEPOSITS THAT REACH 1/3 THE HEIGHT OF THE SILT FENCE SHALL BE REMOVED BY THE CONTRACTOR.

THE CONTRACTOR'S EROSION CONTROL PLAN SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION.

THE PROPOSED REPLACEMENT INTERVAL FOR EROSION CONTROL DEVICES IS ONLY AN ESTIMATE. IF, AFTER THE PROPOSED REPLACEMENT INTERVAL EXPIRES, THE EROSION CONTROL DEVICES ARE STILL FUNCTIONING PROPERLY (I.E. DURING THE DRY SEASON) THE EROSION CONTROL DEVICES SHOULD REMAIN IN PLACE UNTIL THEY NO LONGER FUNCTION AS ORIGINALLY DESIGNED.

**SECTION 5.0 INSPECTIONS**

CONTRACTOR'S QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50" OR GREATER. THE CONTRACTOR WILL REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH INSPECTION REPORT AND SUBMIT IT WEEKLY TO THE ENGINEER. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN THE RAIN GAUGE AT THE PROJECT SITE AND RECORD DAILY RAINFALL.

AREAS TO BE INSPECTED FOLLOWING FINAL STABILIZATION OF THE PROJECT SITE SHALL INCLUDE:

- STRUCTURAL CONTROLS.
- STORMWATER MANAGEMENT SYSTEMS.
- LOCATIONS WHERE VEHICLES ENTER & EXIT SITE.
- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- POINTS OF DISCHARGE TO MUNICIPAL SEWER STORM SEWER SYSTEMS.
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED.

**SECTION 6.0 DEWATERING**

THE CONTRACTOR IS REQUIRED TO OBTAIN ALL DEWATERING PERMITS AS REQUIRED BY STATE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES THAT REQUIRE DEWATERING. SEE SFWMD RULES AND REGULATIONS FOR SPECIFIC REQUIREMENTS FOR DEWATERING.

ALL SCHEDULING CONFLICTS AND COSTS INCURRED BY THE CONTRACTOR TO COMPLY WITH THE DEWATERING PERMITTING PRICES WILL BE INCIDENTAL COSTS ASSOCIATED WITH THE PAY ITEMS FOR INSTALLATION OF THE FEATURE WHICH REQUIRES THE DISCHARGE OF GROUND WATER.

COPIES OF THE OBTAINED STATE PERMITS FOR DEWATERING SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO ANY DEWATERING (PUMPING) ACTIVITIES. NOTE THAT THE INITIAL TEST IS TO BE CONDUCTED PRIOR TO ACTUAL OFFSITE DEWATERING RESULTING FROM CONSTRUCTION ACTIVITIES.

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LEE COUNTY of  
SOUTH WEST TRANSPORTATION  
FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-8900 www.lee-county.com/publwrks/dot111e.htm

**STORMWATER POLLUTION PREVENTION PLAN**

SHEET NO.  
**26**

575

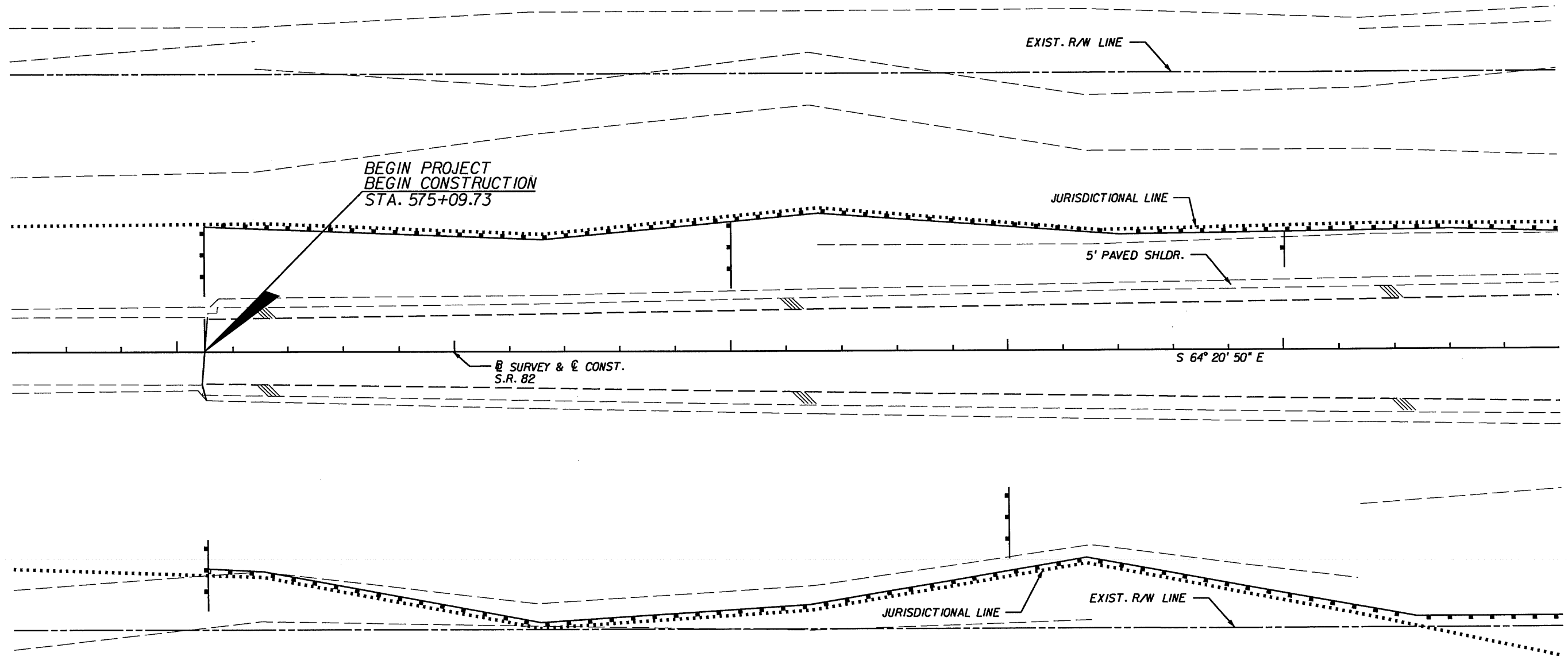
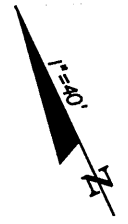
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*Dawn M. Ratican*  
6/10/08

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(TO BE PLACED AT LIMITS OF  
CONSTRUCTION OR AT TREE LINE.  
TO BE ADJUSTED AS NECESSARY)

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**EROSION CONTROL PLAN (1)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 574+00.00 TO STA. 580+00.00**

SHEET NO.  
**27**

580

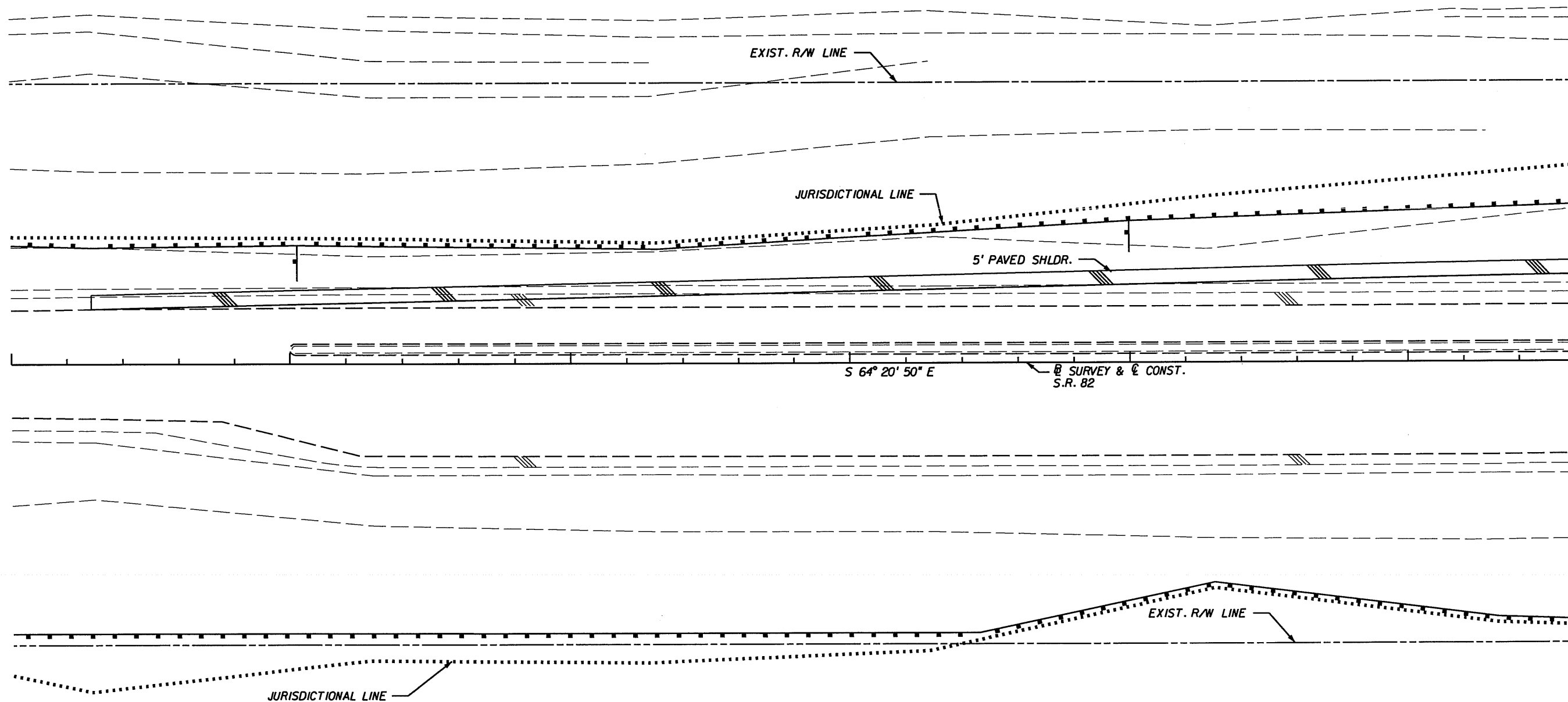
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585



*Dawn M. Ratican*  
6/10/08

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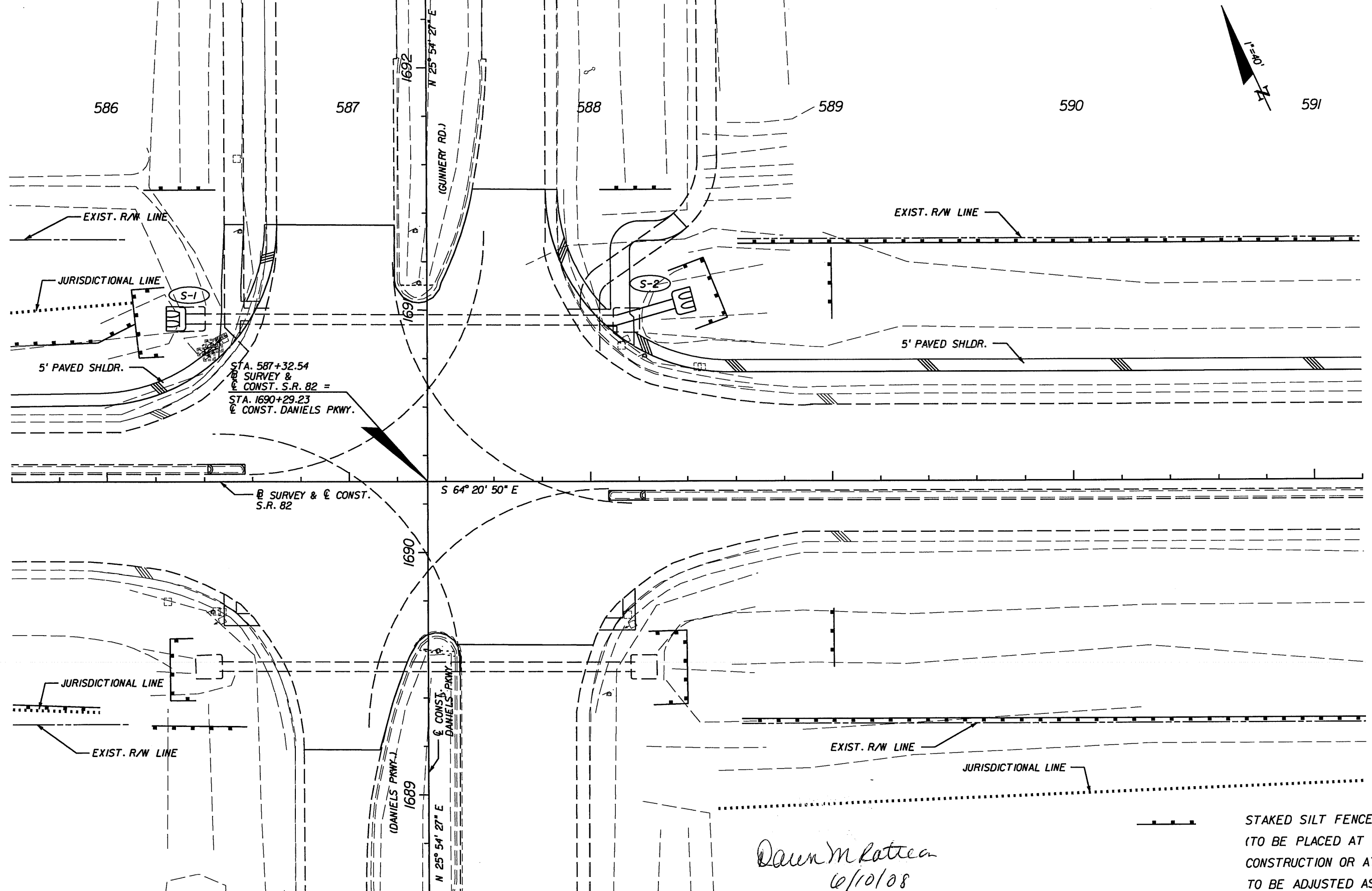
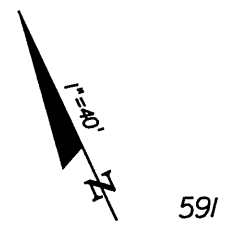
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**EROSION CONTROL PLAN (2)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 580+00.00 TO STA. 585+60.00**

SHEET NO.  
**28**



STA. 587+32.54  
 SURVEY &  
 CONST. S.R. 82 =  
 STA. 1690+29.23  
 CONST. DANIELS PKWY.

SURVEY & CONST.  
 S.R. 82 S 64° 20' 50" E

(DANIELS PKWY.)  
 1689  
 N 25° 54' 27" E  
 CONST. DANIELS PKWY.

*Dawn M. Ratican*  
 6/10/08

STAKED SILT FENCE  
 (TO BE PLACED AT LIMITS OF  
 CONSTRUCTION OR AT TREE LINE.  
 TO BE ADJUSTED AS NECESSARY)

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 SOUTHWEST TRANSPORTATION  
 FLORIDA  
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 (239) 479-8900 www.lee-county.com/publworks/dot1file.htm

**EROSION CONTROL PLAN (3)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 585+60.00 TO STA. 591+20.00**

SHEET NO.  
 29



597

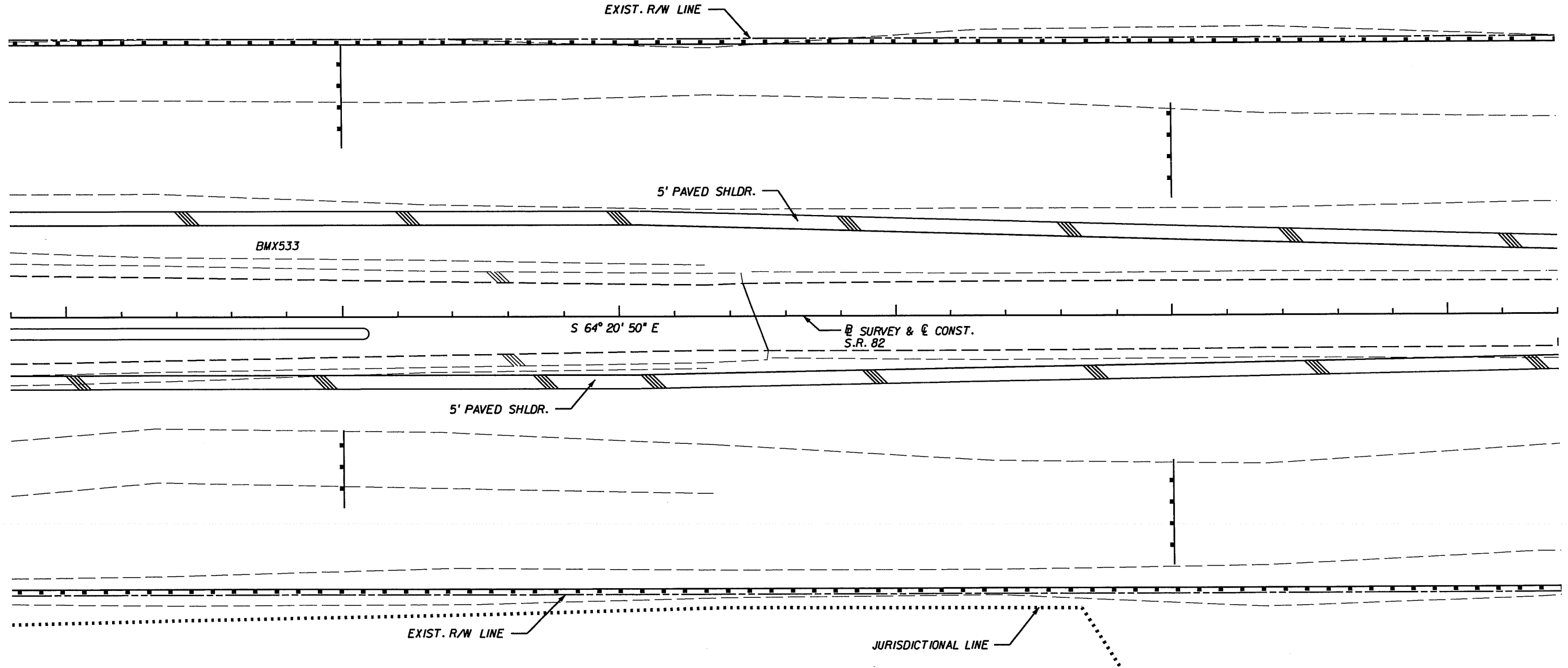
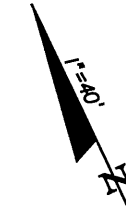
598

599

600

601

602



BY SURVEY & CONST.  
S.R. 82

*Dawn M. Ratican*  
6/10/08

STAKED SILT FENCE  
(TO BE PLACED AT LIMITS OF  
CONSTRUCTION OR AT TREE LINE.  
TO BE ADJUSTED AS NECESSARY)

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**DAWN M. RATICAN**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60226

**PUBLIC WORKS DEPARTMENT**  
**LEE COUNTY** of **FLORIDA**  
 SOUTHWEST TRANSPORTATION  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**EROSION CONTROL PLAN (5)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 596+80.00 TO STA. 602+40.00**

SHEET NO.  
**31**

603

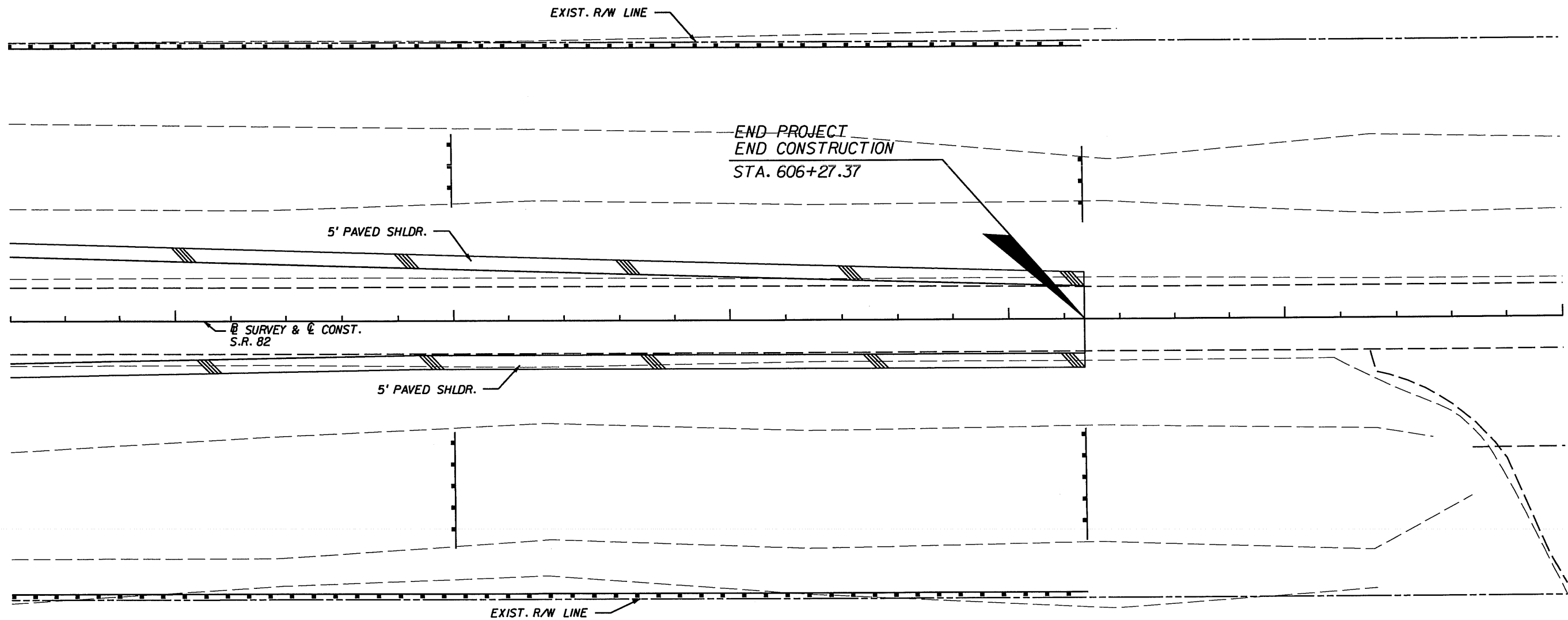
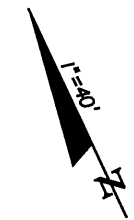
604

605

606

607

608



SURVEY & CONST.  
S.R. 82


END PROJECT  
END CONSTRUCTION  
STA. 606+27.37

5' PAVED SHLDR.

5' PAVED SHLDR.


EXIST. R/W LINE

EXIST. R/W LINE



**STAKED SILT FENCE**  
 (TO BE PLACED AT LIMITS OF  
 CONSTRUCTION OR AT TREE LINE.  
 TO BE ADJUSTED AS NECESSARY)

*Dawn M. Ratican*  
 6/10/08

NO.	DATE	BY	REVISIONS - DESCRIPTION


**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
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 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**DAWN M. RATICAN**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 60226


 PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**EROSION CONTROL PLAN (6)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 602+40.00 TO STA. 606+27.37**

SHEET NO.  
**32**






SIGNING AND PAVEMENT MARKING GENERAL NOTES


1. ALL FLORIDA ROUTE MARKERS MUST CONFORM TO F.D.O.T. DESIGN STANDARDS INDEX No. 17355.
2. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEX.
3. REFER TO F.D.O.T. DESIGN STANDARDS INDEX No. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
4. PAINT ALL MEDIAN NOSES AND RAISED ISLAND NOSES REFLECTIVE WHITE OR REFLECTIVE YELLOW AS INDICATED IN THE PLANS.
5. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
6. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
7. ALL ROUTE MARKER AUXILIARIES SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.
8. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM No. 102-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
9. CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MULTI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN SIGNS SHALL BE ALUMINUM ROUND TUBE.
10. ALL SINGLE COLUMN SIGNS WITHIN THE LIMITS OF CLEARING AND GRUBBING SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS. PAYMENT SHALL BE REFLECTED IN THE PAY ITEM No. 110-1-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
11. THE CONTRACTOR SHALL APPLY THERMOPLASTIC AS THE FINAL TRAFFIC STRIPES AND MARKINGS A MINIMUM OF 14 DAYS AFTER THE FIRST APPLICATION OF PAINT BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
12. ALL EXISTING MARKINGS THAT ARE IN CONFLICT WITH PROPOSED, SHALL BE REMOVED BY HYDRO-BLASTING. DUE CARE SHALL BE USED SO DAMAGE TO THE FRICTION COURSE WILL BE MINIMAL.
13. ALL SIGNS THAT ARE IMBEDDED IN ASPHALT/CONCRETE, (ISLANDS, MEDIAN NOSES) SHALL BE INSTALLED IN A FDOT APPROVED PIPE SLEEVE.
14. ALL PAVEMENT MARKINGS WITHIN FDOT RIGHT-OF-WAY SHALL BE THERMOPLASTIC, CERTIFIED LEAD-FREE.

*Amanda J. Correia*  
10 Jun -08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 61644

 PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dot11e.htm

**SIGNING & PAVEMENT MARKING**  
**GENERAL NOTES**

SHEET NO.  
 S-2

575

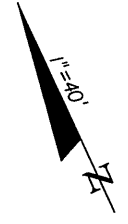
576

577

578

579

580



EXIST. R/W

BEGIN SIGNING & MARKING  
MATCH EXISTING  
PAVEMENT MARKINGS  
STA. 575+09.73

S.R. 82

250'

6" WHITE

12'  
12'

+90.59

6" DBL. YELLOW  
W/ Y/Y RPM'S 40' CC

℄ S.R. 82

18" YELLOW

12'  
12'

MATCH LINE STA. 580+00

6" WHITE

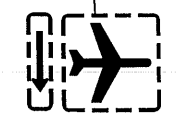
572+59.73

1 AS  
700-20-11  
W6-2  
36"x36"

250'

DANIELS PARKWAY  
NEXT SIGNAL  
GUNNERY ROAD

EXISTING SIGN  
TO REMAIN



EXISTING SIGN  
TO REMAIN

EXIST. R/W

*Amanda J. Correia*  
10-JUN-08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
5802 BRECKENRIDGE PARKWAY STE. 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
CERTIFICATE OF AUTHORIZATION NO. 3114

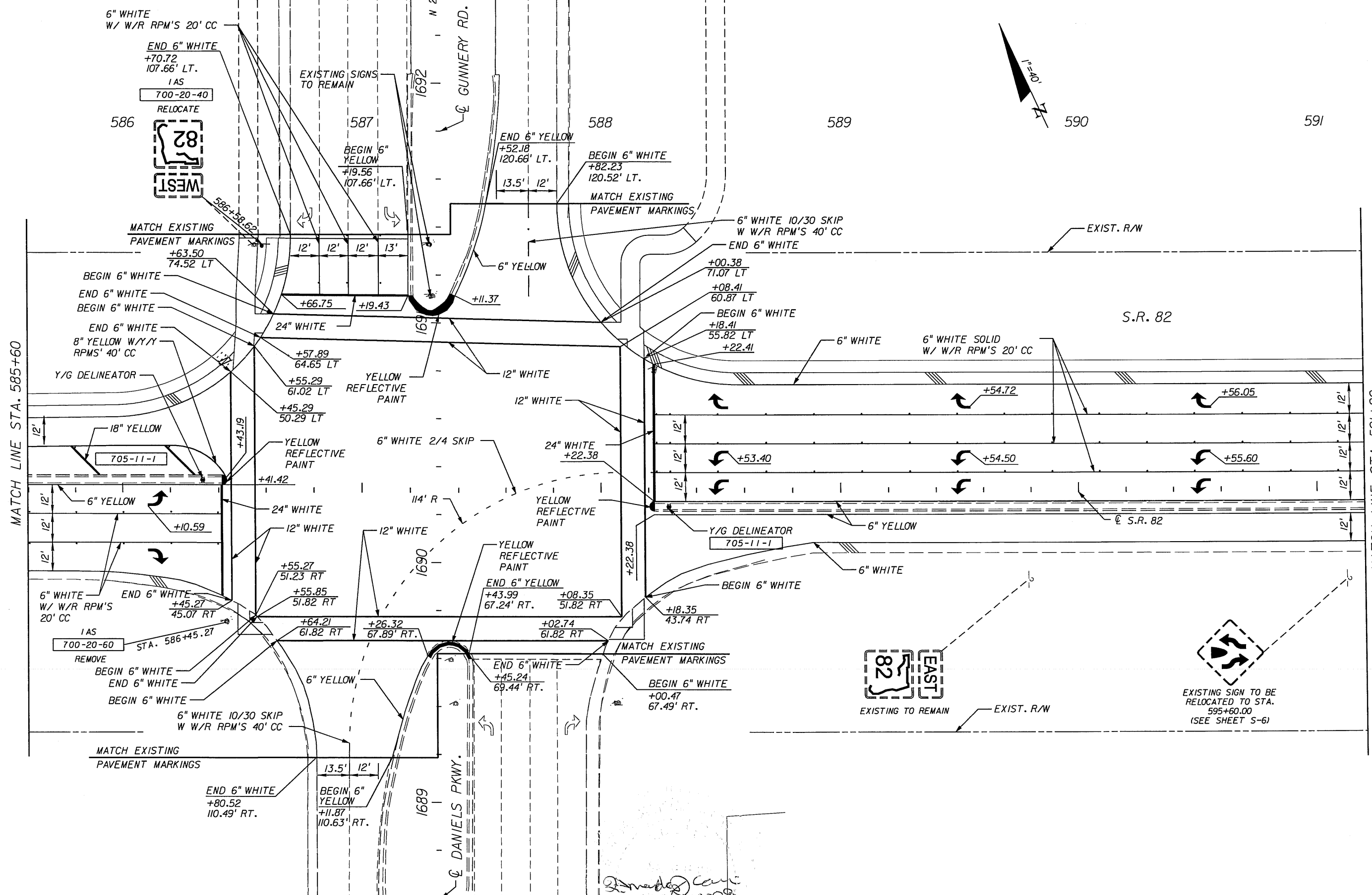
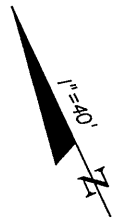
APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA CERTIFICATE NO. 61644

PUBLIC WORKS DEPARTMENT  
LEE COUNTY of SOUTHWEST FLORIDA  
1500 MONROE STREET FORT MYERS, FLORIDA 33901  
(239) 479-8900 www.lee-county.com/publworks/dot111e.htm

**SIGNING & MARKING PLAN (D)**  
**S.R. 82 & DANIELS PKWY.**  
STA. 575+09.73 TO STA. 580+00.00

SHEET NO.  
S-3





NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 61644

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of SOUTHWEST FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
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**SIGNING & MARKING PLAN (3)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 585+60.00 TO STA. 591+20.00**

SHEET NO.  
**S-5**

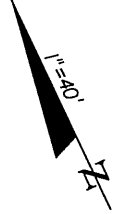
592

593

594

595

596

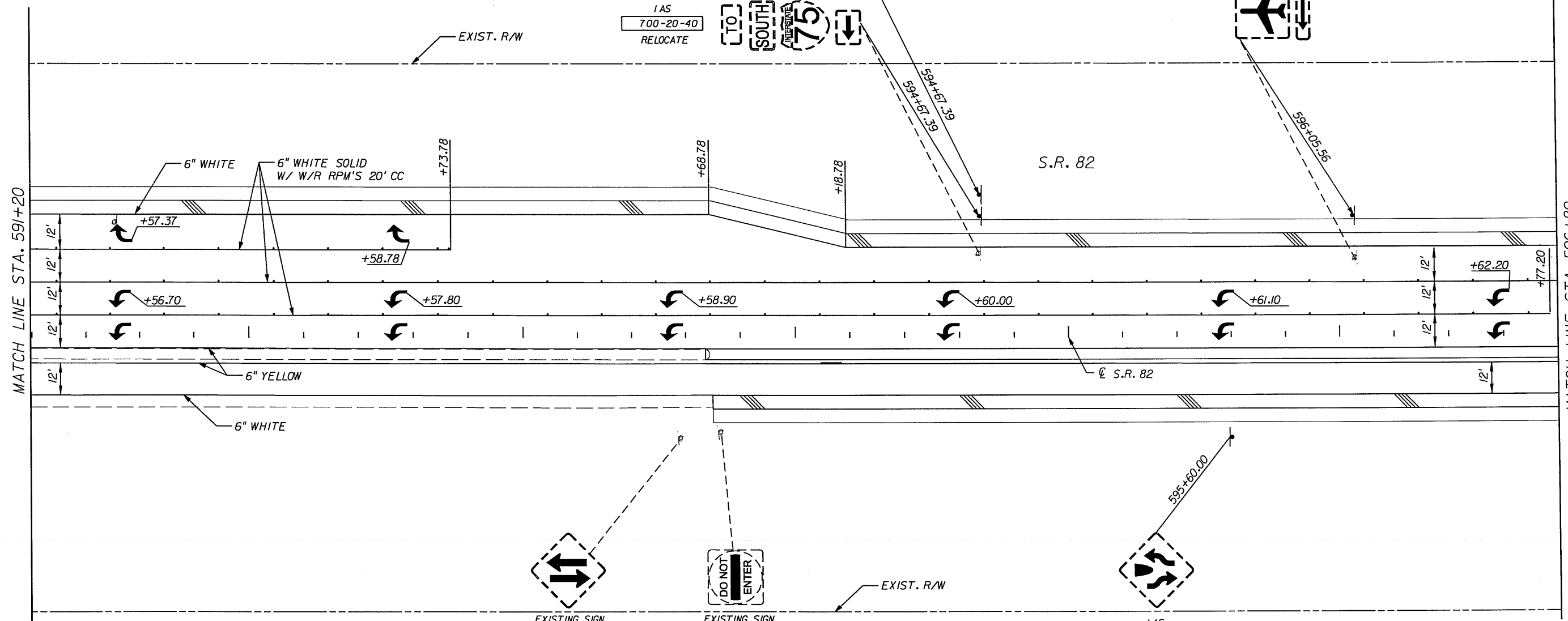


1 AS  
700-20-40  
RELOCATE



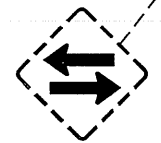
1 AS  
700-20-40  
RELOCATE

1 AS  
700-20-40  
RELOCATE

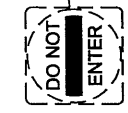


MATCH LINE STA. 591+20

MATCH LINE STA. 596+80



EXISTING SIGN  
TO BE RELOCATED  
TO STA. 598+10.00  
(SEE SHEET S-7)



EXISTING SIGN  
TO BE RELOCATED  
TO STA. 598+25.00  
(SEE SHEET S-7)



1 AS  
700-20-40  
RELOCATED SIGN  
(SEE SHEET S-5)

*Amanda J. Correia*  
10-24-08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 61644

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST FLORIDA TRANSPORTATION  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publworks/dot11e.htm

**SIGNING & MARKING PLAN (A)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 591+20.00 TO STA. 596+80.00**

SHEET NO.  
S-6

597

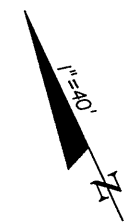
598

599

600

601

602



IAS  
700-21-40  
RELOCATE

DANIELS PARKWAY  
GUNNERY ROAD  
NEXT SIGNAL

EXISTING TO REMAIN



EXIST. R/W

S.R. 82

MATCH LINE STA. 596+80

MATCH LINE STA. 602+40

6" WHITE

6" WHITE SOLID  
W/ W/R RPM'S 20' CC

+62.20

Y/G DELINEATOR  
705-11-1

YELLOW  
REFLECTIVE  
PAINT

+07.20

6" DBL. YELLOW  
W/ Y/Y RPM'S 40' CC

6" YELLOW

6" WHITE

BEGIN 6" DBL.  
YELLOW  
+07.37

598+10.00

598+25.00

598+66.64

18" YELLOW

EXIST. R/W



IAS  
700-20-40  
RELOCATED SIGN  
(SEE SHEET S-6)



IAS  
700-20-40  
RELOCATED SIGN  
(SEE SHEET S-6)



IAS  
700-20-40  
RELOCATE

*Amanda J. Correia*  
10-JUN-08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 61644

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST FLORIDA TRANSPORTATION  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dotfile.htm

**SIGNING & MARKING PLAN (5)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 596+80.00 TO STA. 602+40.00**

SHEET NO.  
**S-7**

603

604

605

606

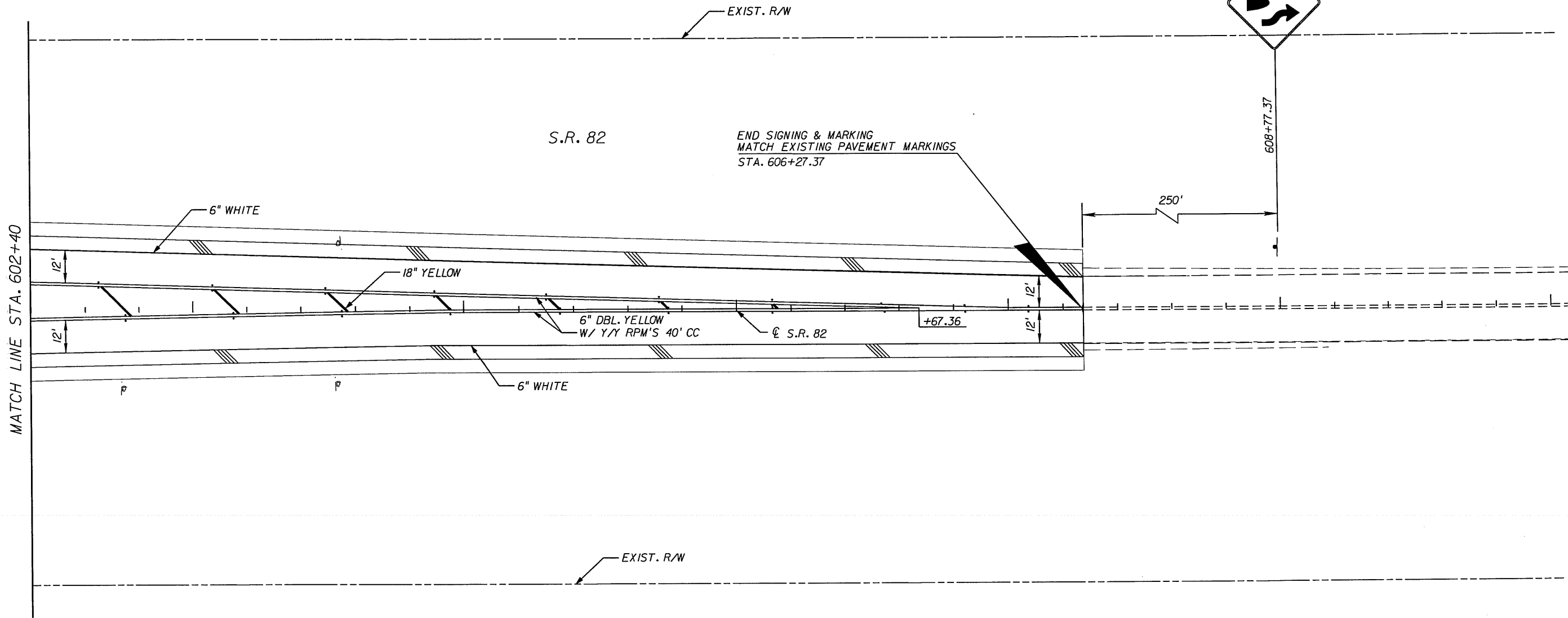
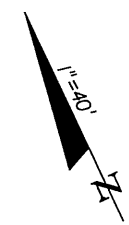
607

IAS

700-20-11

WG-1

36"x36"



*Amanda J. Correia*  
10-JUN-08

NO.	DATE	BY	REVISIONS - DESCRIPTION

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APPROVED BY:  
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 LEE COUNTY of  
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 FLORIDA  
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**SIGNING & MARKING PLAN (6)**  
**S.R. 82 & DANIELS PKWY.**  
**STA. 602+40.00 TO STA. 606+27.37**

SHEET NO.  
 S-8



**LEE COUNTY BOARD OF  
COUNTY COMMISSIONERS  
PUBLIC WORKS ADMINISTRATION  
DEPARTMENT OF TRANSPORTATION  
CONTRACT PLANS**

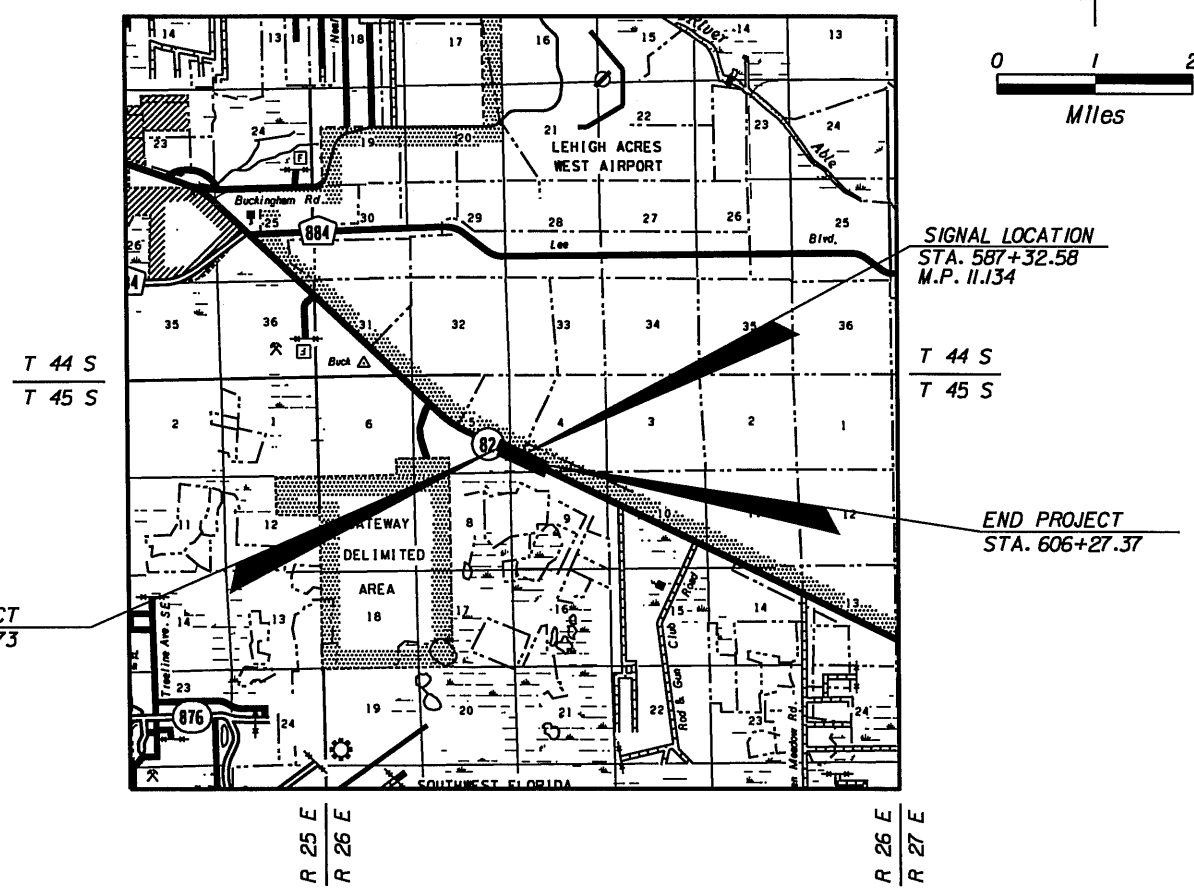
**PLANS OF PROPOSED  
S.R. 82 & DANIELS PKWY.  
SIGNALIZATION PLANS**

COUNTY PROJECT NO. 3966  
LEE COUNTY (12070) - M.P. 11.132

R 25 E | R 26 E | R 26 E | R 27 E

**INDEX OF PLANS**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	SIGNAL MODIFICATION PLAN
T-5	CLASSIFICATION MONITORING SITE DETAILS



SIGNAL SHOP DRAWINGS  
TO BE SUBMITTED TO:

 **AIM ENGINEERING & SURVEYING, INC.**  
5802 BRECKENRIDGE PARKWAY, SUITE 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
Certificate of Authorization No. 3114  
ATTN: AMANDA J CORREIA, P.E. NO. 61644

PLANS PREPARED BY:

 **AIM ENGINEERING & SURVEYING, INC.**  
5802 BRECKENRIDGE PARKWAY, SUITE 100  
TAMPA, FLORIDA 33610  
TELEPHONE (888) 627-4144  
FAX (813) 664-1899  
Certificate of Authorization No. 3114  
Vendor No. 65-019775

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:  
LIST OF DEVIATIONS: NONE

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

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED JANUARY 2008.

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

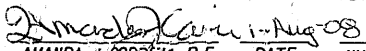
LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN  
SPECIFICATIONS FOR SIGNALIZATION, OVERHEAD SIGNS  
AND ROADWAY LIGHTING PLANS.

AT LEAST 72 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION  
OF THE PROJECT, THE CONTRACTOR SHALL CONTACT THE LOCAL  
MAINTENANCE FDOT ENGINEER'S OFFICE TO SECURE GENERAL  
USE PERMITS AND / OR OTHER PERMITS AS REQUIRED FOR WORKING  
WITHIN THE DEPARTMENT'S RIGHT-OF-WAY.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 07-01-08

FOR DESIGN STANDARDS MODIFICATIONS CLICK ON  
"DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:  
[HTTP://WWW.DOT.STATE.FL.US/RDDDESIGN/](http://www.dot.state.fl.us/rddesign/)

LEE COUNTY PROJECT MANAGER: EYRA CASH, P.E.

SIGNAL PLANS  
ENGINEER OF RECORD:  
  
AMANDA J CORREIA, P.E. DATE: Aug 08

DEVELOPMENT ORDER APPROVED:  
LEE COUNTY PUBLIC WORKS  
ADMINISTRATOR  
JIM LAVENDER DATE: \_\_\_\_\_  
DIRECTOR OF PUBLIC WORKS.

P.E. NO.: 61644

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SHEET NO.  
T-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T-4		T-5														PLAN	FINAL	PLAN	FINAL			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
630-1-12	CONDUIT (UNDERGROUND)	LF	247		455																	702		702	
632-7-1	SIGNALS - CABLE	PI	1																			1		1	
634-7	CABLE ADJUST	EA	1																			1		1	
635-1-11	SIGNAL PULL BOX	EA	7		2																	9		9	
650-51-313	TRAFFIC SIGNAL (F&I) (SPECIAL)	AS	5																			5		5	
650-54	TRAFFIC SIGNAL (RELOCATE)	AS	2																			2		2	
653-191	PEDESTRIAN SIGNAL (F&I) LED COUNTDOWN	AS	6																			6		6	
653-192	PEDESTRIAN SIGNAL (F&I) LED COUNTDOWN TWO-WAY	AS	1																			1		1	
659-101	SIGNAL HEAD AUXILIARIES (F&I) (BACK PLATES, 3 SECTION)	EA	5																			5		5	
659-107	SIGNAL HEAD AUXILIARIES (F&I) ALUMINUM PEDESTAL	EA	8																			8		8	
659-320	SIGNAL HEAD AUXILIARIES (F&I) LED MODULE (GREEN & YELLOW)	AS	22																			22		22	
660-2-102	LOOP ASSEMBLY (F&I) TYPE B	AS	2																			2		2	
660-2-106	LOOP ASSEMBLY (F&I) TYPE F	AS	11																			11		11	
665-13	PEDESTRIAN DETECTOR (F&I) DETECTOR WITH SIGN ONLY	EA	8																			8		8	
670-5-430	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL	AS	1																			1		1	
678-1-104	CONTROLLER ACCESSORIES (F&I) LOAD SWITCH	EA	8																			8		8	
690-10	TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVE	AS	2																			2		2	
700-48-58	SIGN PANEL, RELOCATE, 15 OR LESS	EA	1																			1		1	
745-70-12	TWS, INDUCTIVE LOOP ASSEMBLY	AS			4																	4		4	
746-74-121	TRAFFIC MONITORING SITE CABINET, MODIFY, TYPE 111, POLE	EA			1																	1		1	

*Amended*  
#61644 1-Aug-08

NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
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 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 61644

PUBLIC WORKS  
 LEE COUNTY DEPARTMENT  
 of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dot11e.htm

**SIGNALIZATION PLANS**  
**TABULATION OF QUANTITIES**

**GENERAL NOTES:**

1. THE MAINTAINING AGENCY IS THE LEE COUNTY TRANSPORTATION DEPT. THE CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY AT LEAST 48 HOURS BEFORE BEGINNING TRAFFIC SIGNAL RELATED WORK.
2. EXISTING SIGNAL EQUIPMENT REMOVED FROM THE PROJECT SHALL BECOME THE PROPERTY OF LEE COUNTY.
3. AT THE TIME OF FINAL PROJECT INSPECTION, THE CONTRACTOR SHALL FURNISH THE ENGINEER FOUR COMPLETE SETS OF AS-BUILT PLANS, TWO SETS FOR LEE COUNTY, ONE SET FOR FDOT, AND ONE SET SHALL BE LEFT IN THE CABINET.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TWO BUSINESS DAYS IN ADVANCE OF WORK COMMENCING.
5. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE ONLY. THE EXACT LOCATION OF UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES (NOT SHOWN ON THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE OTHER UTILITIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO CONTACT THE RESPECTIVE UTILITY OWNER TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS, AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
7. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITIES WHICH MAY BE AFFECTED BY THE WORK.
8. ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR THE PROPER INSTALLATION/RELOCATION OF UTILITY FACILITIES AS INDICATED ON THE UTILITY RELOCATION SCHEDULES SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE IMPACTED UTILITIES AND STAKE THE ITEMS REQUESTED. THE STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING OF THE PROJECT. THE COST OF THIS STAKING SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE PROJECT.
9. THE CONTRACTOR SHALL BE AWARE THAT EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE BOUNDS OF WORK SHOWN IN THE PLANS ARE NOT LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.
10. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUIT, PULL BOXES, CONTROLLER FOUNDATIONS OR OTHER SIGNAL EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MEETING WITH ALL UTILITIES HAVING OVERHEAD OR UNDERGROUND FACILITIES IN CLOSE PROXIMITY OR IN POSSIBLE CONFLICT WITH THE CONTRACTOR'S WORK.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR HAVING UNDERGROUND CABLE AND UTILITIES LOCATED AND IDENTIFIED BY PROPER AUTHORITIES AT ALL CONSTRUCTION SITES.
13. UNDERGROUND UTILITIES MAY OR MAY NOT EXIST WHERE AERIAL COMMUNICATIONS INSTALLATION IS PROPOSED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE POSSIBLE UTILITY CONFLICTS IF DESIGN IS CHANGED DURING CONSTRUCTION TO REQUIRE UNDERGROUND WORK.
14. SECTION 611 TRAFFIC SIGNAL ACCEPTANCE: SCHEDULING OF THE PARTIAL AND FINAL ACCEPTANCE INSPECTIONS SHALL BE COORDINATED WITH MIKE PADGETT, LEE COUNTY DOT AND FDOT TRAFFIC SIGNAL INSPECTOR/LIAISON A MINIMUM OF TWO FULL BUSINESS DAYS NOTICE. RESULTS OF FIELD TESTS (I.E., SECTION 614) SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN WRITTEN FORM. A QUALIFIED CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE: (A) COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS, COORDINATING UNITS, SYSTEM CLOCKS AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM TIMING FUNCTIONS.
15. THE CONTRACTOR SHALL NOTIFY LEE COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL SECTION IN WRITING PRIOR TO CONSTRUCTION WITH DATE AND TIMES OF START OF SIGNAL AND FLASH OPERATION, AND COMPLETION OF CONSTRUCTION PROJECT.
16. CONTRACTOR SHALL CONTACT SUNSHINE ONE-CALL LOCATES, 48 HOURS PRIOR TO START OF WORK.
17. CONTRACTOR SHALL MAINTAIN TRAFFIC SIGNAL DURING CONSTRUCTION BEGINNING ON DAY ONE, SHALL LOCATE ALL EQUIPMENT AND FACILITIES RELATING TO THE TRAFFIC SIGNAL UNTIL SUCH TIME AS LEE COUNTY ASSUMES MAINTENANCE RESPONSIBILITY AT THE END OF 90 DAYS BURN IN PERIOD. UPON ALL INSPECTION ISSUES RESOLVED. IF CONTRACTOR DOES NOT FOLLOW THIS REQUIREMENT THEY WILL BE SUBJECT TO ALL COST OF DAMAGED EQUIPMENT.
18. ALL TRAFFIC SIGNAL EQUIPMENT SUBMITTALS SHALL BE SENT TO MIKE PADGETT AT 5650 ENTERPRISE PKWY., FT. MYERS, FL. 33905 FOR APPROVAL PRIOR TO ANY INSTALLATION.
19. AT LEAST 48 HOURS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, PERMITTEE TO CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON:

MR. BRIAN BIRD PHONE: 239-656-7800  
 FDOT, FORT MYERS OPERATIONS CENTER  
 2981 N.E. PINE ISLAND ROAD  
 CAPE CORAL, FL 33909

THE CONTRACTOR TO PROVIDE A WARRANTY/MAINTENANCE BOND FOR SIGNAL INSTALLATIONS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 611-5. THE PERMITTEE TO SECURE, UPON PRIOR APPROVAL FROM THE DEPARTMENT, THE SERVICES OF A QUALIFIED INSPECTOR IN ACCORDANCE TO CHAPTER 471, FLORIDA STATUTES, TO PERFORM CONSTRUCTION ENGINEERING & INSPECTION SERVICES FOR THE INSTALLATION OF THE TRAFFIC SIGNAL, AND TO CERTIFY THAT ALL WORK HAS BEEN DONE IN ACCORDANCE WITH THE DEPARTMENT'S STANDARDS, SPECIFICATIONS, PERMIT REQUIREMENTS, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, RULES, AND REGULATIONS. IN ADDITION, THE ON-SITE INSPECTOR SHALL BE IMSA LEVEL II CERTIFIED. SUBMITTAL DATA FOR ALL PERMIT JOBS MUST BE DONE IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 603.5.

*Amado J. Correia*  
 #61644 1-AUG-08

**SIGNAL HEADS AND CABLE:**

ALL SIGNAL HEADS SHALL BE CAST ALUMINUM.  
 ALL SIGNAL DISPLAYS SHALL BE FDOT CERTIFIED LED TYPE DISPLAYS. ALL PEDESTRIAN SIGNALS SHALL BE CERTIFIED MINIMUM DIAMETER.  
 ITEM NO. 650-51-313  
 THIS ITEM SHALL INCLUDE ALL LABOR AND WIRE NECESSARY FOR COMPLETE WIRING OF INTERSECTION.  
 SIGNAL INSTALLATION SHALL CONFORM WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNALS, THE MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES AND SIGNALS, AND THE LEE COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC SECTION PLAN SPECIFICATIONS DATED JANUARY 14, 2004.  
 SIGNAL TO BE MAINTAINED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION.  
 SIGNAL SHALL BE PLACED IN FULL OPERATION ON A MONDAY, TUESDAY, OR WEDNESDAY, BUT SHALL NOT BE PLACED IN FULL OPERATION ON THE DAY PRECEDING A HOLIDAY.

FOR SPAN WIRE MOUNTED SIGNAL HEADS THE CONTRACTOR WILL REMOVE TERMINAL BLOCK IN SIGNAL HEAD DISCONNECTS AND CINCH CONNECTOR AND USE RED B WIRE NUTS. THE CONTRACTOR SHALL USE #14 THIN STRANDED COPPER WIRE FROM DISCONNECT TERMINAL BLOCK TO SIGNAL HEAD. THE FOLLOWING COLORS SHALL BE USED IN SIGNAL HEADS AND ELECTRICAL TAPE:

- A. RED WIRE = RED SIGNAL DISPLAY
- B. YELLOW WIRE = YELLOW SIGNAL DISPLAY
- C. GREEN WIRE = GREEN SIGNAL DISPLAY
- D. WHITE WIRE = NEUTRAL

ALL LED'S SHALL BE SAME TYPE AND BRAND.

**CONDUIT**

PAYMENT FOR INSTALLING NEW CONDUIT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT RUNS IN THE TRENCH.

CONDUIT SHALL BE 1 INCH MINIMUM DIAMETER FOR ELECTRICAL SERVICE CONNECTION.

ALL OTHER CONDUIT EXCEPT AS INDICATED ABOVE SHALL BE 2 INCH.

**PAY ITEM NOTES**

630-1-12:  
 ALL CONDUIT UNDER PROPOSED ROADWAY AND/OR SIDEWALK SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE OR CONCRETE.  
 PAYMENT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT IN TRENCH.

635-1-11:  
 CONTRACTOR IS RESPONSIBLE FOR APPROPRIATELY SIZING EACH PULL BOX SO THE COMMUNICATION AND/OR INTERCONNECT CABLE DOES NOT EXCEED MANUFACTURER'S RECOMMENDED BENDING RADIUS.

650-51-313:  
 METAL HEADS SHALL BE USED.  
 ALL SIGNAL HEAD HEAD SECTIONS SHALL BE APPROVED LED TYPE.  
 USE SIGNAL HEAD SUPPORTING TUBE THAT IS CAPABLE OF ADJUSTING VERTICALLY A MINIMUM OF 15 FEET.  
 USE BUCHANON B-2 RED WIRE NUTS FOR ALL CONNECTIONS IN THE DISCONNECT. USE RED, YELLOW, GREEN, AND WHITE THHN #14 COPPER WIRES FROM DISCONNECT TO SIGNAL HEAD. PLACE A PERMANENT MARKING ON THE WIRE DESIGNATING THE PHASE USED.

653-191 AND 653-192:  
 MOUNTING PEDESTRIAN SIGNAL HEADS 9'-6" ABOVE GRADE.

659-101:  
 USE ONE-PIECE METAL LOUVERED SIGNAL BACK PLATES.

659-107:  
 USE BREAKAWAY ALUMINUM SQUARE BASE ASSEMBLIES WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTALS. SPLICED SIGNAL CABLE IN BASE OF PEDESTAL (NOT IN PEDESTRIAN HEADS) WITH SILICONE FILLED (B-CAP). INSIDE DIAMETER OF PEDESTALS SHALL BE FOUR INCHES.

660-2-102 AND 660-2-106:  
 SPLICE LOOP WIRE TO LEAD-IN WIRE USING B-CAP (SILICONE FILLED) TWIST WIRE NUTS. INSTALL THE TWISTED PAIR AND LOOP LEAD-IN AS SHOWN IN DETAIL FOR INSTALLATION WITHOUT CURB AND GUTTER OF INDEX I7781 OF THE DESIGN STANDARDS, BOOKLET EDITION AS NOTED ON KEY SHEET. INSTALL A TWO-INCH (2") CONDUIT TWO-INCHES (2") UNDER THE PAVEMENT AT AN ANGLE OF 30-40 DEGREES. THE HOLD-DOWN MATERIAL (NON-METALLIC) SHALL BE A MINIMUM OF ONE-INCH (1") AND A MAXIMUM OF TWO INCHES (2") IN LENGTH.

665-13:  
 USE PEDESTRIAN BUTTON SIGNAL SIGNS FTP-69A-06 OR FTP-69B-06. STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAMES SHOWN ON THE SIGNALIZATION PLAN SHEET.

**UTILITY OWNERS:**

COMPANY	CONTACT	TELEPHONE
LEE COUNTY SIGNAL DEPARTMENT	TOM WATTS	239-533-9500
LEE COUNTY ELECTRIC COOP	TRISH LASSITER	239-656-2374
FLORIDA POWER & LIGHT	SCOTT OVERBAUGH	239-332-9154
EMBARQ	RONALD POPP	239-336-2162
COMCAST	MARK COOK	239-432-1805

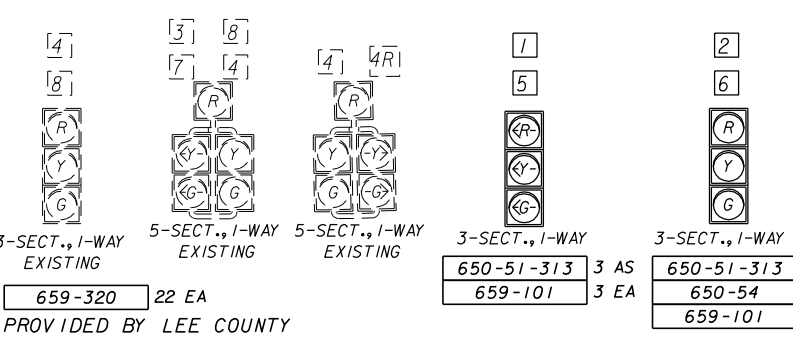
NO.	DATE	BY	REVISIONS - DESCRIPTION

**AIM Engineering & Surveying, Inc.**  
 5802 BRECKENRIDGE PARKWAY STE. 100  
 TAMPA, FLORIDA 33610  
 TELEPHONE (888) 627-4144  
 FAX (813) 664-1899  
 CERTIFICATE OF AUTHORIZATION NO. 3114

APPROVED BY:  
**AMANDA J. CORREIA, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 61644

PUBLIC WORKS DEPARTMENT  
 LEE COUNTY of  
 SOUTHWEST TRANSPORTATION  
 FLORIDA  
 1500 MONROE STREET FORT MYERS, FLORIDA 33901  
 (239) 479-8900 www.lee-county.com/publicworks/dot11a.htm

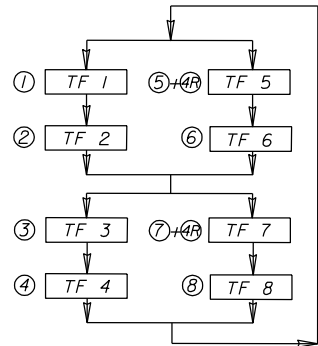
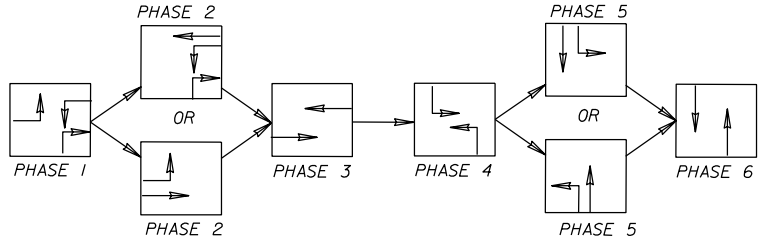
**SIGNALIZATION PLANS**  
**GENERAL NOTES**



**SIGNAL HEAD DETAILS**  
**CONTROLLER OPERATIONS:**

- MAJOR STREET IS SR 82, PHASE 3 (MOVEMENTS 2 AND 6), AND MINOR STREET IS DANIELS PKWY/GUNNERY RD S, PHASE 6 (MOVEMENTS 4 AND 8).
- SPECIAL SIGNAL OPERATING PLAN WITH NO SPECIAL FEATURES.
- CONCURRENT/ACTUATED PEDESTRIANS FOR MOVMENTS 2 (P2), 4 (P4), 6 (P6), AND 8 (P8). THE FORCE-OFF FUNCTION FOR PHASE 2 & 6 SHALL NOT BE EFFECTIVE DURING THE TIMING OF PEDESTRIAN CLEARANCE INTERVAL FOR P4 AND P8. SYNCHRONIZATION SHALL BE MAINTAINED. THE CONTROLLER SHALL REMAIN IN THE COORDINATED MODE AND SHALL NOT REVERT TO ISOLATED OPERATION AS A RESULT OF PEDESTRIAN ACTUATION.

**SPECIAL S.O.P.**



CONTROLLER TIMINGS								
TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NO.	1	2	3	4	5	4R	6	7
MINIMUM GREEN	7	25	7	15	7	---	25	7
EXTENSION	3.0	4.0	3.0	3.0	5.0	---	4.0	3.0
MAXIMUM GREEN 1	15	35	10	45	50	---	35	15
MAXIMUM GREEN 2	20	40	15	50	60	---	40	20
YELLOW CLEARANCE	4.0	5.5	4.0	5.0	4.0	---	5.5	4.0
ALL RED	2.0	2.0	3.0	2.0	2.0	---	2.0	3.0
PED. WALK		7.0		7.0			7.0	7.0
PED. CLEARANCE		36		27			36	26
RECALL								

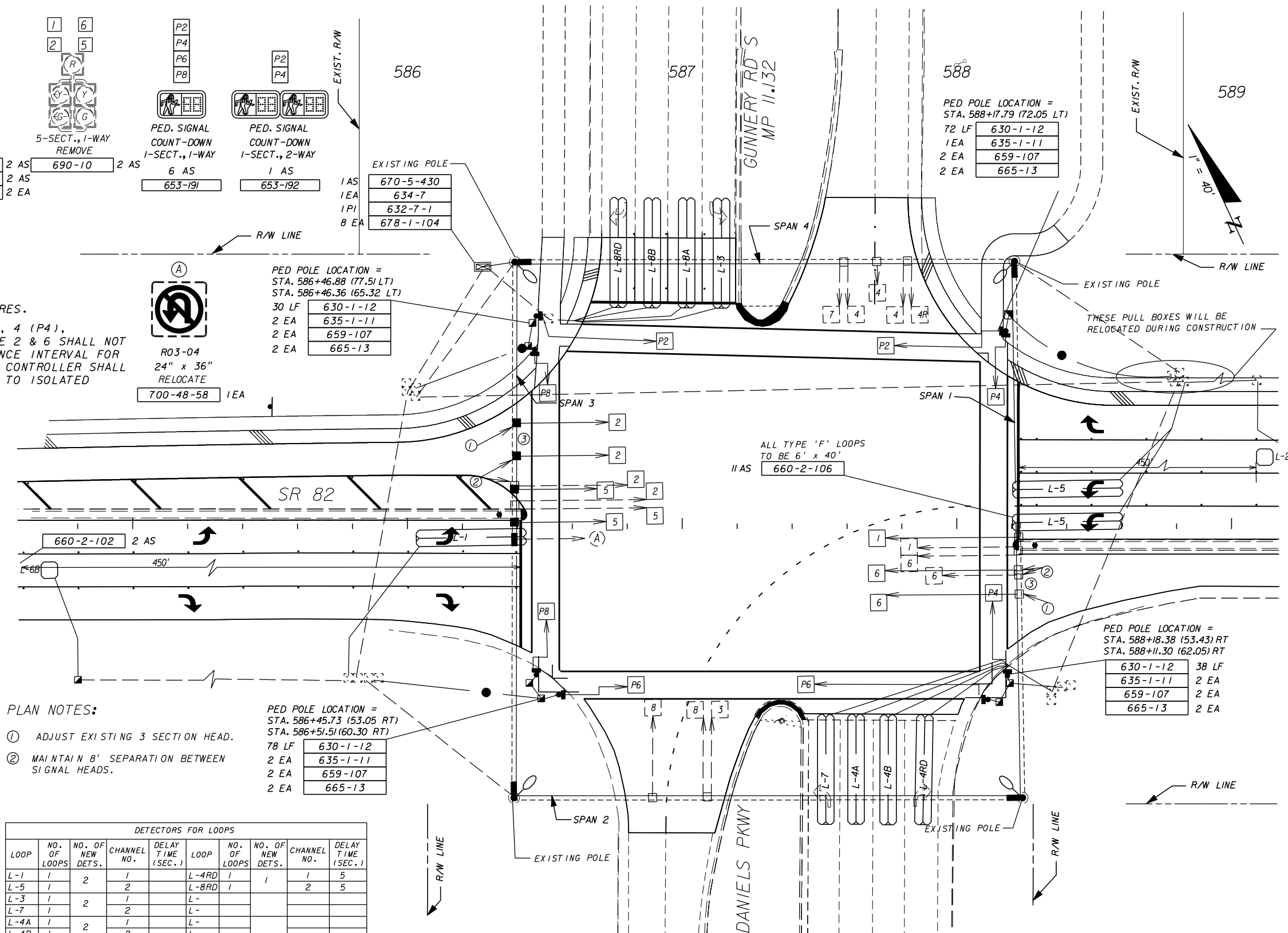
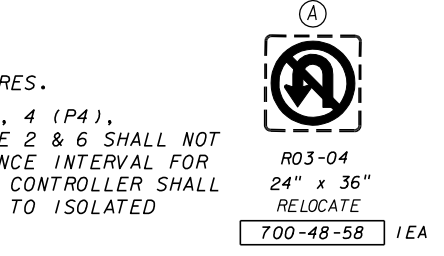
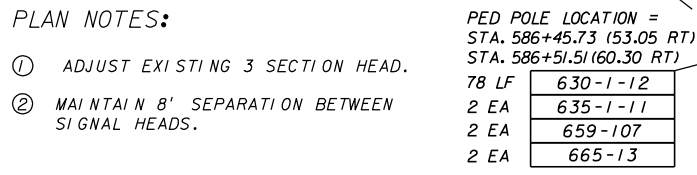
TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER. INSTALL CONCURRENT TIMING OF INITIAL AND EXTENSION INTERVALS.

**PLAN NOTES:**

- ADJUST EXISTING 3 SECTION HEAD.
- MAINTAIN 8' SEPARATION BETWEEN SIGNAL HEADS.

DETECTORS FOR LOOPS							
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	CHANNEL NO.	DELAY TIME (SEC.)	LOOP	NO. OF LOOPS	NO. OF NEW DETS.
L-1	1	2	1		L-4RD	1	1
L-5	1	2	2		L-8RD	1	2
L-3	1	2	1		L-		
L-7	1	2	2		L-		
L-4A	1	2	1		L-		
L-4B	1	2	2		L-		
L-8A	1	2	1		L-		
L-8B	1	2	2		L-		
L-2B	1	2	1		L-		
L-6B	1	2	2		L-		

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.



NOTE: CONTRACTOR'S ATTENTION IS DIRECTED TO THE EXISTENCE OF OVERHEAD UTILITIES WHICH MAY INTERFERE WITH NORMAL CONSTRUCTION PRACTICES AT THIS LOCATION.

LOCATION OF SIGNAL SR 82 AT DANIELS PKWY/GUNNERY RD. S.

NO.	DATE	BY	REVISIONS - DESCRIPTION

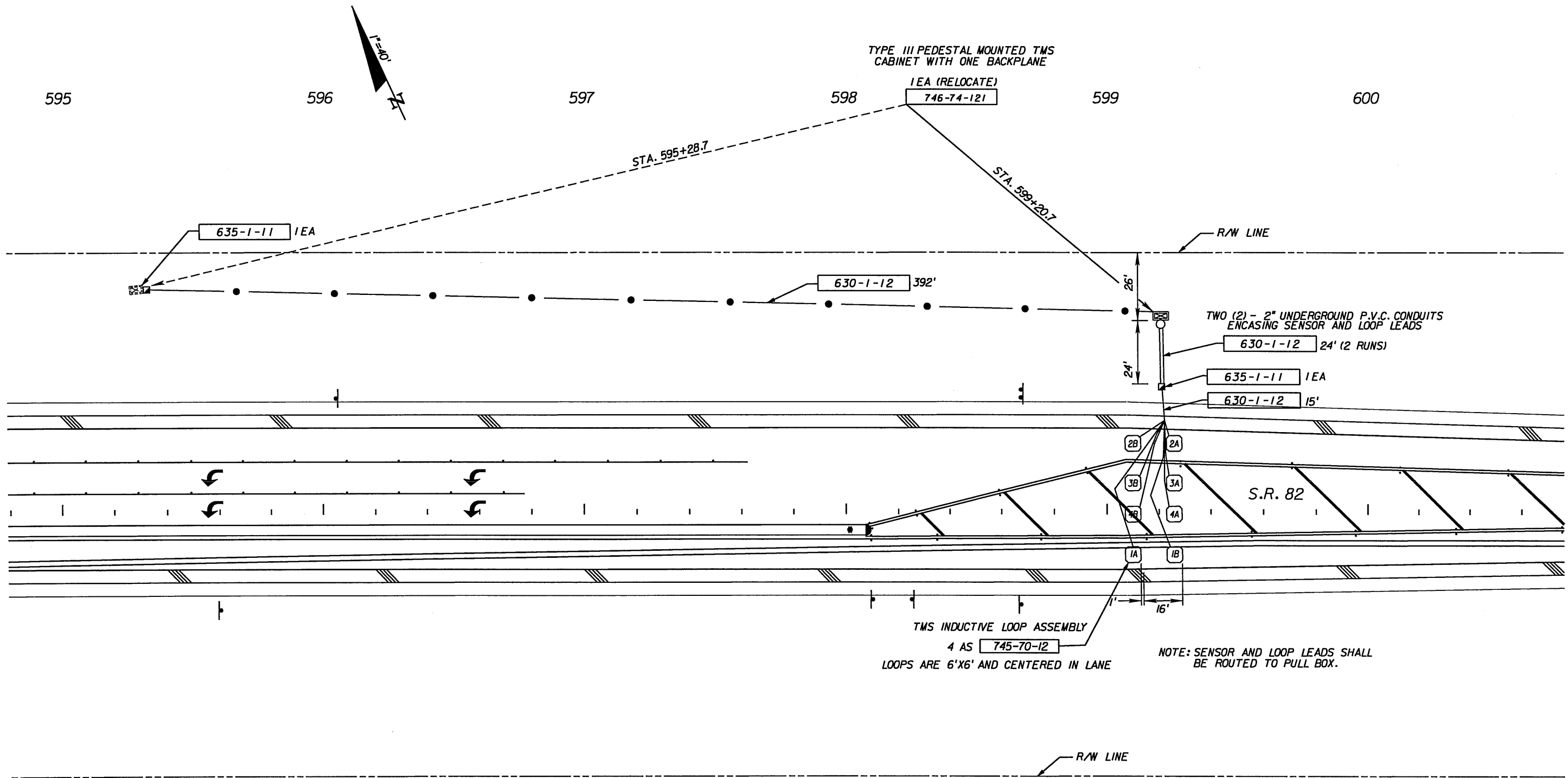
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APPROVED BY:  
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**SIGNAL MODIFICATION PLAN**  
**S.R. 82 & DANIELS RD.**

SHEET NO.  
T-4



PLAN NOTES AND INSTALLATION DETAILS FOR CLASSIFICATION MONITORING SITES

1. CLASSIFICATION MONITORING SITE TO BE MAINTAINED BY LEE COUNTY THE CONTRACTOR SHALL SUBMIT A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
2. THE CONTRACTOR SHALL USE THE STANDARD INDEX I7900 FOR INSTALLATION OF TRAFFIC MONITORING SITES.

*Amanda J. Correia*  
#61644 1-Aug-08

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**CLASSIFICATION MONITORING  
SITE DETAILS**

S.R. 82

SHEET NO.  
T-5