



# CONSTRUCTION PLANS FOR SADLER ROAD AT US 441 INTERSECTION IMPROVEMENTS

FINANCIAL PROJECT ID 441400-1-58-01

FEDERAL AID No. D518-087-B

CIP No. : 5128

## DISTRICT NO: 2 ORANGE COUNTY, FLORIDA

### SOURCE OF BENCHMARK DATUM

SITE BENCHMARK #3  
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & MAG NAIL  
N: 1605496.066, E: 457580.848, ELEVATION: 115.35'  
STA. 51+62.53, (22.82' RT) @ SURVEY SADLER RD.

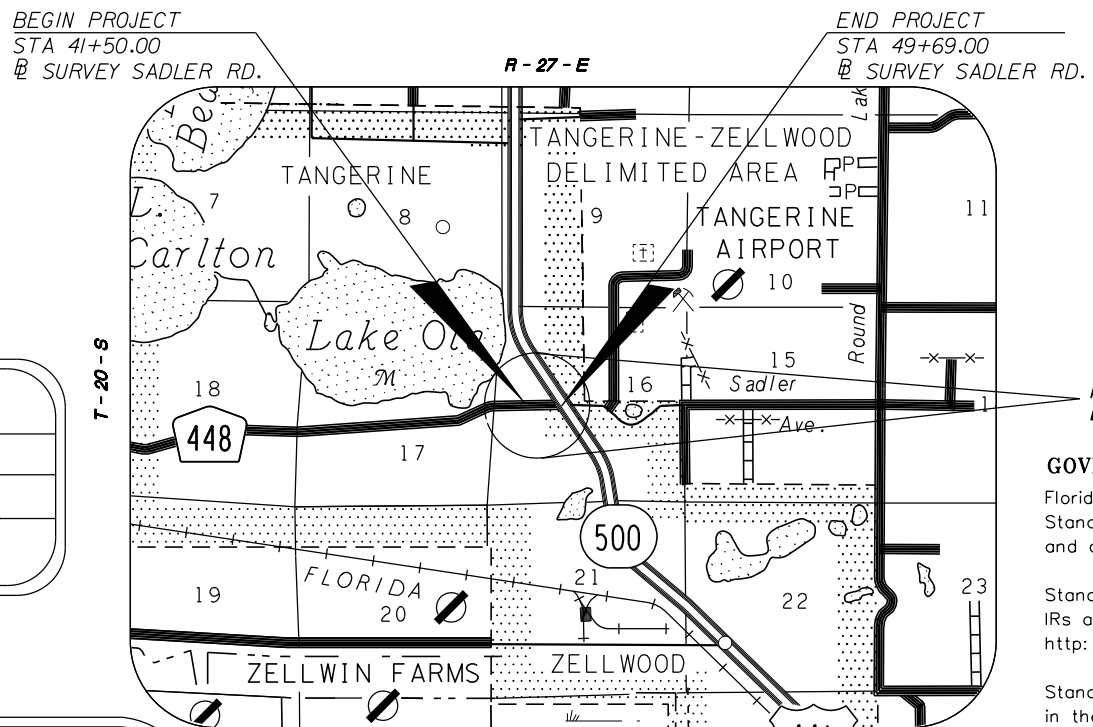
SITE BENCHMARK #4  
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & MAG NAIL  
N: 1605547.741, E: 457387.097, ELEVATION: 112.01'  
STA. 49+68.99 (29.65' LT) @ SURVEY SADLER RD.

SITE BENCHMARK #5  
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & MAG NAIL  
N: 1605498.461, E: 457159.318, ELEVATION: 105.88'  
STA. 47+41.01 (18.70' RT) @ SURVEY SADLER RD.

SITE BENCHMARK #6  
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & MAG NAIL  
N: 1605539.446, E: 457113.978, ELEVATION: 105.87'  
STA. 46+95.84 (22.47' LT) @ SURVEY SADLER RD.

SITE BENCHMARK #7  
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & MAG NAIL  
N: 1605491.887, E: 456658.417, ELEVATION: 102.98'  
STA. 42+40.09 (23.24' RT) @ SURVEY SADLER RD.

PROJECT LENGTH:	FEET	MILES
ROADWAY:	819.00	0.155
BRIDGES:		
TOTAL LENGTH:	819.00	0.155



VICINITY MAP  
NTS

### NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

### CERTIFICATION TO PLANS

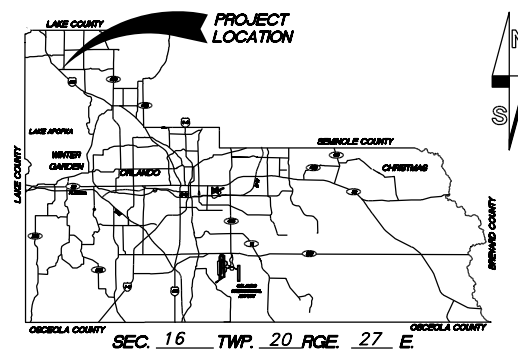
I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: \_\_\_\_\_ ENGINEER: \_\_\_\_\_

JERRY L. DEMINGS, COUNTY MAYOR

BOARD OF COUNTY  
COMMISSIONERS

BETSY VANDERLEY	DISTRICT 1
CHRISTINE MOORE	DISTRICT 2
MAYRA URIBE	DISTRICT 3
MARIBEL GOMEZ CORDERO	DISTRICT 4
EMILY BONILLA	DISTRICT 5
VICTORIA P. SIPLIN	DISTRICT 6
MARK V. MASSARO, P.E. PUBLIC WORKS DIRECTOR	



LOCATION MAP

### INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
1A	SIGNATURE SHEET
2	GENERAL NOTES / STANDARD DETAILS
3	SUMMARY OF PAY ITEMS
4-4B	SUMMARY OF QUANTITIES
5	TYPICAL SECTION
6-7	PLAN SHEET
8	SOIL SURVEY SHEET
9	REPORT OF AUGER BORINGS
10-16	CROSS SECTIONS
17-18	STORMWATER POLLUTION PREVENTION PLAN
19	TEMPORARY TRAFFIC CONTROL PLAN
20-21	UTILITY ADJUSTMENTS
22-26	SURVEY CONTROL SHEETS
S-1 - S-3	SIGNING & PAVEMENT MARKING & SIGNALIZATION

### UTILITIES ENCOUNTERED

CHARTER COMMUNICATIONS	407-532-8509
DUKE ENERGY	352-459-4671
LAKE APOPKA NATURAL GAS	407-656-2734
ORANGE COUNTY PUBLIC WORKS	407-836-7804
CENTURYLINK	863-452-3132

PREPARED BY:



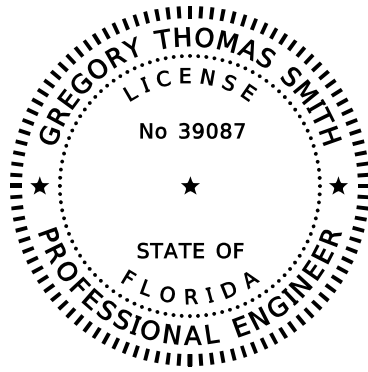
**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

REVISIONS DATE BY

REVISIONS	DATE	BY

DESIGNED BY: CIB DATE: 05/2018  
DRAWN BY: EJR DATE: 05/2018  
CHECKED BY: TS DATE: 05/2018  
APPROVED BY: GTS DATE: 08/2018  
PROJECT NO: 08-0356

SHEET 1  
OF 26



THIS DOCUMENT HAS BEEN DIGITALLY  
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

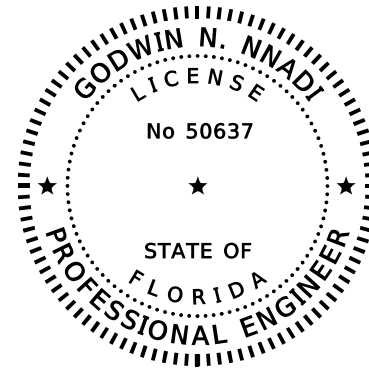
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JMT-JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT,  
SUITE 106  
LAKE MARY, FL 32746  
PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A	SIGNATURE SHEET
2	GENERAL NOTES/STANDARD DETAILS
3	SUMMARY OF PAY ITEMS
4-4B	SUMMARY OF QUANTITIES
5	TYPICAL SECTION
6-7	PLAN SHEET
10-16	CROSS SECTIONS
17-18	STORMWATER POLLUTION PREVENTION PLAN
19	TEMPORARY TRAFFIC CONTROL PLAN
20-21	UTILITY ADJUSTMENTS
S-1 - S-3	SIGNING & PAVEMENT MARKING & SIGNALIZATION



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ON THE DATE ADJACENT TO THE SEAL

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NADIC ENGINEERING SERVICES, INC.  
601 N. HART BOULEVARD  
ORLANDO, FL 32818  
PHONE (407) 521-4771  
CERTIFICATE OF AUTHORIZATION NO. 8214

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1A	SIGNATURE SHEET
8	SOIL SURVEY SHEET
9	REPORT OF AUGER BORINGS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT NO.
SADLER RD	5128

*SIGNATURE SHEET*

SHEET NO.  
IA

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

# GENERAL NOTES AND DETAILS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED 2018-2019, AND ORANGE COUNTY SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.

2. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.

3. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH F.D.O.T. STANDARD PLANS INDEX 110-200. PAYMENT WILL BE INCLUDED IN CLEARING AND GRUBBING.

4. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.

5. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO BE REMOVED AS CLEARING AND GRUBBING UNLESS OTHERWISE DIRECTED.

6. SEED AND MULCH ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

7. INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.

8. SOD ALL SLOPES 3:1 OR STEEPER.

9. SAWCUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION.

10. ALL PAVEMENT OFFSETS SHOWN ARE TO PROPOSED CENTERLINE OF CONSTRUCTION; ALL RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.

11. FOR STABILIZATION AT TURNOUTS AND DRIVEWAY CONNECTIONS SEE STANDARD PLANS INDEX 000-515 AND TYPICAL SECTIONS FOR DEPTH AND LBR.

12. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY AS DIRECTED BY THE ENGINEER.

13. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104; "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.

14. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.

15. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE CALL 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.

16. UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.

17. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.

18. ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.

19. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.

20. ALL MANHOLE COVERS SHALL INCLUDE THE ORANGE COUNTY LOGO AND BE IDENTIFIED AS "ORANGE COUNTY SANITARY", "ORANGE COUNTY STORM", OR "ORANGE COUNTY WATER", AS APPROPRIATE. (SEE DETAIL)

21. ALL INLET/MANHOLE - PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALT MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 13.07 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. ALL PIPE JOINTS IN THIS PROJECT SHALL BE WRAPPED PER FDOT STANDARD PLANS INDEX 430-001 OR AS DIRECTED BY THE ENGINEER COST TO BE INCLUDED IN THE COST OF THE PIPE CULVERT.

22. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.

23. ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.

24. DESIGN CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.

25. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.

26. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7900 AND BOTH SHALL NOTIFY: STATE GEODETIC ADVISOR, DAVID NEWCOMER, 3900 COMMONWEALTH BOULEVARD, SUITE 309, TALLAHASSEE, FL, 32303, 850-245-2606

27. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE (407-836-7900). THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.

28. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

29. WITHIN 21 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY AT 100' INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. PAYMENT IS INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1 "MOBILIZATION" (LS).

30. TO MEET ADA REQUIREMENTS, ALL SIDEWALK CONSTRUCTION SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.

31. FOR PEDESTRIAN CURB CUT RAMPS DETAILS, REFER TO FDOT STANDARD PLANS INDEX 522-002 NOMENCLATURE SHOW IN THE PLANS REFERS TO THE RAMP TYPES IDENTIFIED IN STANDARD PLANS INDEX 522-002.

32. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS AS SHOWN ON THE SIGNING PLANS OR AS DIRECTED BY THE ENGINEER. SIGNS NOT TO BE RE-INSTALLED SHALL BE DELIVERED TO ORANGE COUNTY'S TRAFFIC SIGN SHOP. DAMAGED SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO ORANGE COUNTY. COST OF RELOCATION, MAINTENANCE, REMOVAL AND LEFTOVER SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

33. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION AS PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.

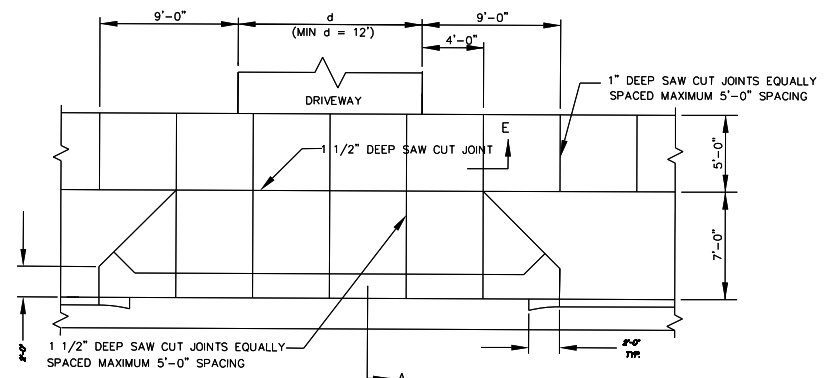
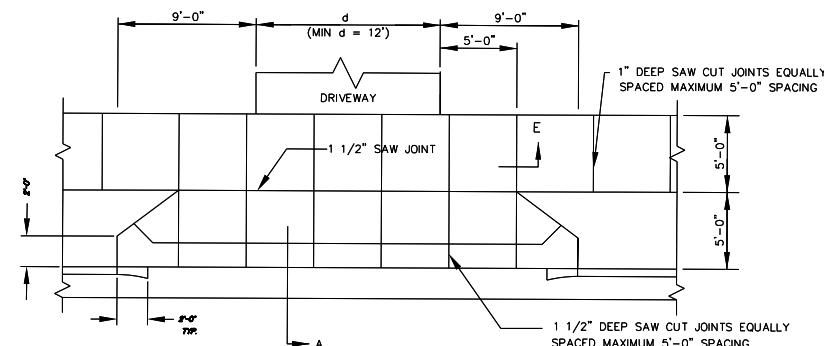
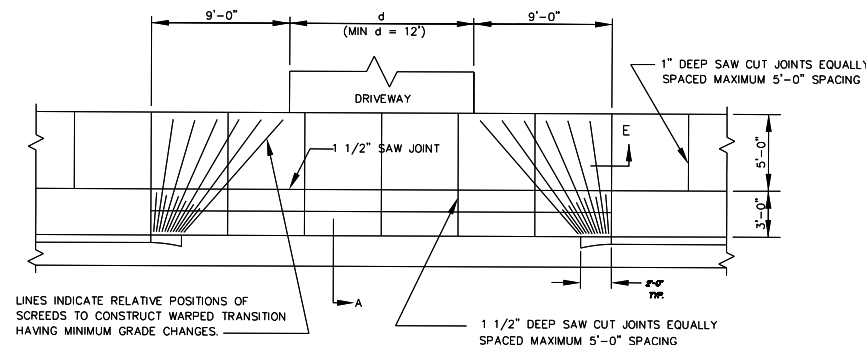
34. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTED CONSTRUCTION.

35. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND SIDEWALKS TO MATCH THE PROPOSED PAVEMENT TO THE EXISTING.

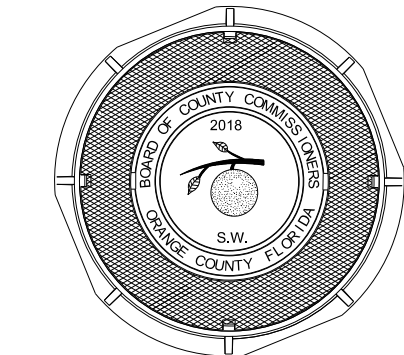
36. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

### CAUTION:

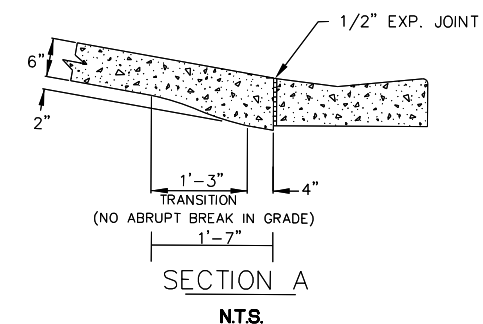
Chapter 77-153 of the Florida Statutes requires that an excavator notify all gas utilities a minimum of two working days prior to excavating. Maps show only the approximate location of gas mains or service lines. The only safe and proper way to locate gas facilities is by an on-site inspection by LAKE APOPKA NATURAL GAS. Therefore, excavators are instructed to telephone us at 407-425-4661 two working days before digging in a construction area.



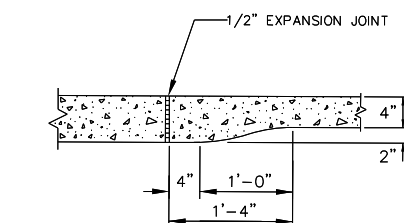
TYPICAL DRIVEWAY APRONS  
N.T.S.



STANDARD MANHOLE COVER  
N.T.S.



SECTION A  
N.T.S.



SECTION E  
TYPICAL SIDEWALK  
DRIVEWAY APRONS  
N.T.S.

REVISIONS						GREGORY T. SMITH, P.E. (No. 39087)	 <b>JOHNSON, MIRMIRAN &amp; THOMPSON</b> 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	<b>ORANGE COUNTY PUBLIC WORKS DEPT.</b> <b>ENGINEERING DIVISION</b> 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950	PROJECT NAME SADLER RD	PROJECT NO. 5128	<b>GENERAL NOTES/ STANDARD DETAILS</b>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							2


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

**SUMMARY OF PAY ITEMS**

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-14	PREVENTION, CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	1
110-1-1	CLEARING AND GRUBBING	LS	1
120-9	EXCAVATION, EMBANKMENT AND GRADING	LS	1
160-4	STABILIZATION TYPE B (MIN. LBR 40)(12")	SY	480
270-10	SOIL CEMENT BASE (PRIMED) (10") (300 psi)	SY	350
327-70-8	MILLING EXIST ASPH PAVT, 2.5" AVG DEPTH	SY	2136
334-1-13	SUPERPAVE ASPHALTIC CONCRETE SP 12.5 (TRAFFIC C) (PG 76-22) (1")	SY	2136
334-2-24	SUPERPAVE ASPHALTIC CONCRETE SP 12.5 (TRAFFIC C) (PG 76-22) (3.5")	SY	350
337-7-6	ASPHALT, CONC. FRICTION COURSE FC-12.5 (PG 76-22) (1.5")	SY	2486
425-1-311	INLETS, CURB, TYPE P-1, <10'	EA	1
425-1-529	INLETS, DT BOT, TYPE C, MODIFY	EA	1
425-1-910	INLETS (CLOSED FLUME)	EA	2
430-175-118	PIPE CULVERT, ROUND, 18" (SRCP ONLY)	LF	98
430-175-218	PIPE CULVERT, ELLIPTICAL, 14"x23" (SRCP ONLY)	LF	285
430-982-625	MITERED END SECTION (14"x23" CD, ELLIPTICAL, 1:4)	EA	1
515-1-1	PIPE HANDRAIL - GUIDERAIL, STEEL	LF	301
520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	749
522-1	SIDEWALK CONCRETE, 4" THICK	SY	253
522-2	CONCRETE DRIVEWAY, 6" THICK	SY	29
524-1-2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY	35
570-1-2	PERFORMANCE TURF, SOD	SY	752
603-1	SIGNALIZATION	LS	1
706-3	RETRO-REFLECTIVE PAVEMENT MARKER	EA	59
710-90	PAINTED PAVEMENT MARKINGS-FINAL SURFACE	LS	1
711-11-125	THERMOPLASTIC (STANDARD) (WHITE) (SOLID) (24")	LF	24
711-11-141	THERMOPLASTIC (STANDARD) (6" WHITE, 6'-10' SKIP)	GM	0.016
711-11-170	THERMOPLASTIC (STANDARD) (ARROW)	EA	8
711-16-101	THERMOPLASTIC (STANDARD-OTHER SURFACES) (WHITE) (SOLID) (6")	GM	0.340
711-16-201	THERMOPLASTIC (STANDARD-OTHER SURFACES) (YELLOW) (SOLID) (6")	GM	0.302
900-1	AS-BUILT PLANS	LS	1
900-3	GROUNDWATER TREATMENT AND DISPOSAL	DA	30
ALTERNATIVE BID 1			
900-2	INDEMNIFICATION	LS	1

PAY ITEM NOTES

- 102-1 INCLUDES THE COST OF ALL ITEMS OF MAINTENANCE OF TRAFFIC INCLUDING BUT NOT LIMITED TO THE DESIGN OF MAINTENANCE OF TRAFFIC PLANS AND ALL TEMPORARY AND PERMANENT STRIPING, SIGNING, FLAGMEN, OFF DUTY LAW ENFORCEMENT OFFICER, ETC. IN ACCORDANCE WITH THE MUTCD AND THE FDOT STANDARD PLANS CURRENT EDITION.
- 104-14 TO BE UTILIZED FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION AND ARE TO BE USED AT LOCATIONS DESIGNATED BY THE PLANS OR AS DIRECTED BY THE COUNTY. INCLUDES THE COST OF ALL SYNTHETIC BALES, SILT FENCE, ROCK BAGS, OR OTHER MATERIALS USED.
- 110-1-1 INCLUDES THE COST OF REMOVAL AND DISPOSAL OF STRUCTURES, PAVEMENT, AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT. INCLUDES THE COST OF TRIMMING OF TREES AND SHRUBS AS NECESSARY, AND THE MAINTENANCE, REMOVAL AND RELOCATION OF MAILBOXES. ALSO TO INCLUDE THE COST OF REMOVAL AND DISPOSAL OF EXISTING CONCRETE SIDEWALK, CONCRETE DRIVEWAY AND ASPHALT.
- 524-1-2 INCLUDES THE COST OF DITCH BLOCK AND 12" CONCRETE CORE.
- 570-1-2 INCLUDES THE COST AND APPLICATION OF FERTILIZER AT THE RATE OF 400 LB/AC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. INCLUDES THE COST AND APPLICATION OF WATER AT THE RATE OF 30,000 GAL/AC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. INCLUDES THE COST OF SOD TO BE PLACED AS DIRECTED BY THE ENGINEER.
- 710-90 INCLUDES THE COST OF PAINTED PAVEMENT MARKINGS DURING THE CURE PERIOD. THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD.

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>GREGORY T. SMITH, P.E. (No. 39087)</p>  <p><b>JOHNSON, MIRMIRAN &amp; THOMPSON</b>          615 CRESCENT EXECUTIVE COURT, SUITE 106          LAKE MARY, FL 32746 PHONE 407-833-9898          CERTIFICATE OF AUTHORIZATION No.: 5917</p>		<p align="center"><b>ORANGE COUNTY PUBLIC WORKS DEPT.</b>  <b>ENGINEERING DIVISION</b>          4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950</p> <table border="1"> <thead> <tr> <th>PROJECT NAME</th> <th>PROJECT NO.</th> </tr> </thead> <tbody> <tr> <td>SADLER RD</td> <td>5128</td> </tr> </tbody> </table>		PROJECT NAME	PROJECT NO.	SADLER RD	5128	<p align="center"><b>SUMMARY OF PAY ITEMS</b></p>		<p>SHEET NO.</p> <p align="center">3</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																							
PROJECT NAME	PROJECT NO.																											
SADLER RD	5128																											


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

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101-1	MOBILIZATION	1			
0102-1	MAINTENANCE OF TRAFFIC	1			
0104-14	PREVENTION, CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	1			
120-9	EXCAVATION, EMBANKMENT & GRADING	1		303 CY OF EXCAVATION 101 CY OF EMBANKMENT	

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
							P	F	P	F		
110-1-1	CLEARING & GRUBBING	41+80.00 TO 49+68.50	RT	33391	LS	0.320	1.0		1			

SUMMARY OF PAVEMENT											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						P	F	P	F		
0160 4	TYPE B STABILIZATION	45+53.52 to 49+56.93	RT	38780	SY	479.6		480			
270-10	SOIL CEMENT BASE (PRIMED) (10") (300 PSI)	45+53.89 to 49+52.15	RT	74440	SY	349.9		350			
0327 70 8	MILLING EXIST ASPH PAVT, 2.5" AVG DEPTH	41+50.00 to 49+69.00	LT/RT	95808	SY	2136.1		2136			
0334 1 13	SUPERPAVE ASPHALTIC CONCRETE SP 12.5 (TRAFFIC C) (PG 76-22) (1")	41+50.00 to 49+69.00	LT/RT	48620	SY	2136.1		2136			
0334 2 25	SUPERPAVE ASPHALTIC CONCRETE SP 12.5 (TRAFFIC C) (PG 76-22) (3.5")	45+53.89 to 49+52.15	RT	48639	SY	349.9		350			
0337 7 6	ASPHALT CONC. FRICTION COURSE FC-12.5 (PG 76-22) (1.5")	41+50.00 to 49+69.00	LT/RT	95791	SY	2486.0		2486.0			

SUMMARY OF RAILING					
LOCATION STA. TO STA.	SIDE	PIPE HANDRAIL - GUIDERAIL		DESIGN NOTES	CONSTRUCTION REMARKS
		0515	1 2		
		LF			
		P	F		
46+03.88 TO 49+04.33	RT	301.0			
SUB-TOTAL:		301.0			
PLAN TOTAL:		301			
FINAL TOTAL:					

REVISIONS						GREGORY T. SMITH, P.E. (No. 39087)	 <b>JOHNSON, MIRMIRAN &amp; THOMPSON</b> 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	<b>ORANGE COUNTY PUBLIC WORKS DEPT.</b> <b>ENGINEERING DIVISION</b> 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950	PROJECT NAME SADLER RD	PROJECT NO. 5128	<b>SUMMARY OF QUANTITIES</b>	SHEET NO. 4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							

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**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	NET LENGTH		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				P	F	P	F		
		0520 1 10	CONCRETE CURB & GUTTER, TYPE F			41+80.12 to 42+62.68	RT	LF	82.8		
		42+68.68 to 44+97.00	RT	LF	228.3						
		45+03.00 to 47+97.00	RT	LF	294.8						
		48+10.00 to 48+98.33	RT	LF	88.3						
		49+01.67 to 49+56.46	RT	LF	55.2						

**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION STA. TO STA.	SIDE	AREA ID	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
			0522 1		0522 2			
			SY		SY			
			P	F	P	F		
45+53.69 to 49+14.40	RT	61516	239.3					
49+41.20 to 49+66.24	RT	61526	13.7					
49+04.40 to 49+51.20	RT	83082			29.4		DRIVEWAY	
SUB-TOTAL:			253.0		29.4			
TOTAL:			253		29			

**SUMMARY OF DITCH PAVEMENT**

LOCATION STA. TO STA.	SIDE	AREA ID	CONCRETE DITCH PAVEMENT - NON-REINF (4")		DESIGN NOTES	CONSTRUCTION REMARKS
			0524 1 2			
			SY			
			P	F		
44+50.37 to 45+07.48	RT	89520	35.1			
SUB-TOTAL:			35.1			
TOTAL:			35			

**SUMMARY OF PERFORMANCE TURF**

LOCATION STA. TO STA.	SIDE	AREA ID	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
			0570 1 2			
			SY			
			P	F		
41+99.99 to 49+14.40	RT	65821	737.7			
49+41.10 to 49+64.58	RT	65843	2.5			
49+43.74 to 49+68.50	RT	65848	11.6			
SUB-TOTAL:			751.8			
TOTAL:			752			

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



**JOHNSON, MIRMIAN & THOMPSON**  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746 PHONE 407-833-9898  
 CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.  
 ENGINEERING DIVISION**  
 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950


PROJECT NAME	PROJECT NO.
SADLER RD	5128

**SUMMARY OF QUANTITIES**

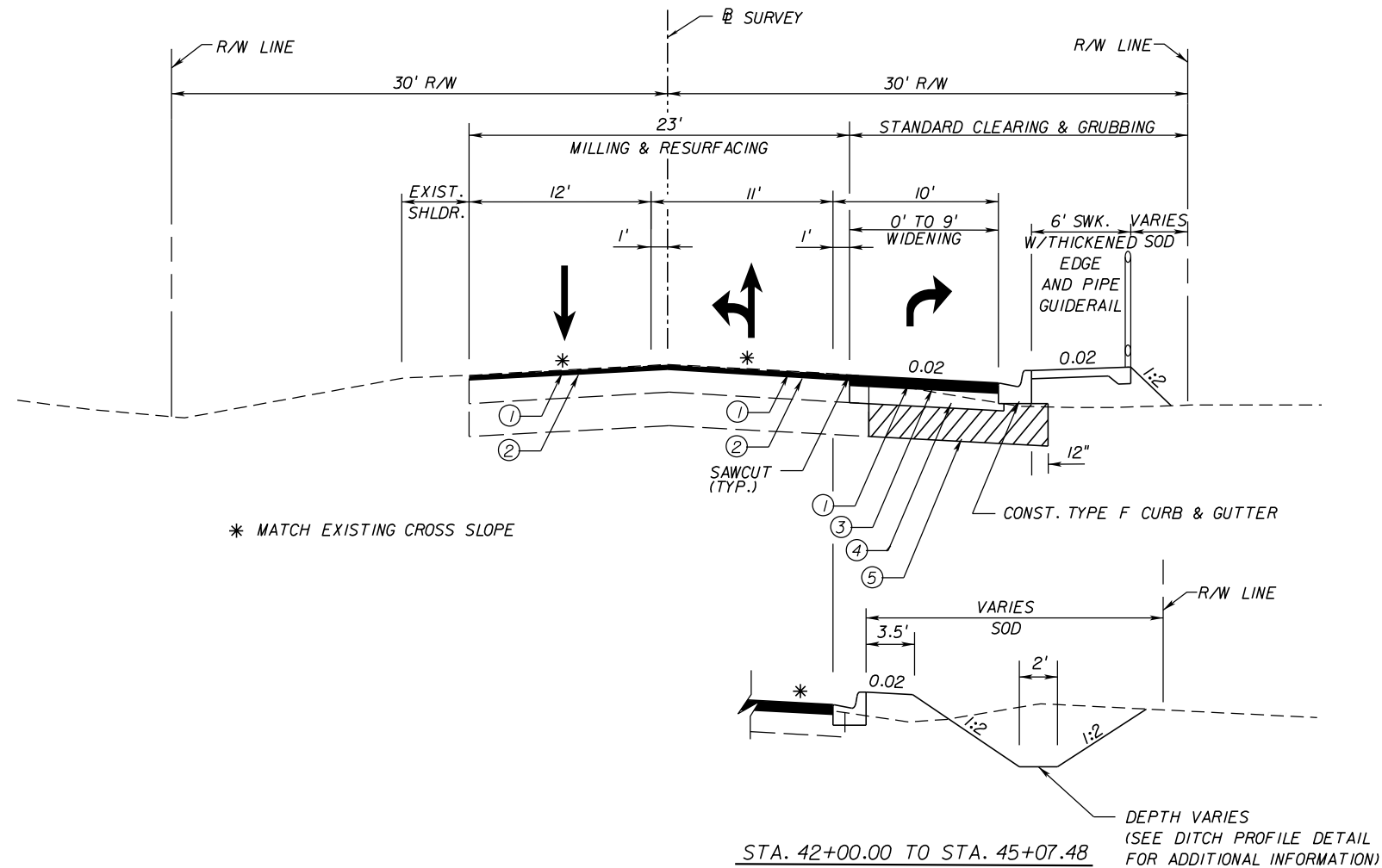
SHEET NO.  
4A

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SUMMARY OF DRAINAGE STRUCTURES											REMARKS	
Q T Y	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL MATERIAL		CURB INLETS	D.B.I.	CLOSED FLUME INLET		MITERED END SECTION
						SRCP						
						ROUND	OTHER	P-1	TYPE C	EACH		14" X23"
P	S-1	42+65.10	RT	CLOSED FLUME INLET	1					1		
F												
P	S-2	45+00.00	RT	CLOSED FLUME INLET	1					1		
F												
P	S-3	48+00.00	RT	INLET, PIPE, MES	1		285	1			1	
F											1:4	
P	S-4	49+00.00	RT	INLET, PIPE	1	98			1			
<b>TOTALS</b>						PLAN QUANTITY	98	285	1	1	2	1
						FINAL QUANTITY						

REVISIONS						GREGORY T. SMITH, P.E. (No. 39087)	 <b>JOHNSON, MIRMIRAN &amp; THOMPSON</b> 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	ORANGE COUNTY PUBLIC WORKS DEPT. ENGINEERING DIVISION 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT NO.	
							SADLER RD	5128	<b>SUMMARY OF QUANTITIES</b> 4B	

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\* MATCH EXISTING CROSS SLOPE

DEPTH VARIES  
(SEE DITCH PROFILE DETAIL  
FOR ADDITIONAL INFORMATION)

**TYPICAL SECTION  
SADLER ROAD  
STA. 41+50.00 TO STA. 49+69.00  
N.T.S.**

**MILLING**

MILL EXISTING ASPHALT PAVEMENT (2.5" AVG. DEPTH)

**RESURFACING**

- ① — FRICTION COURSE FC-12.5 (TRAFFIC C) (PG 76-22) (1.5")
- ② — TYPE SP STRUCTURAL COURSE SP 12.5 (TRAFFIC C) (PG 76-22) (1")

**WIDENING**

- ① — FRICTION COURSE FC-12.5 (TRAFFIC C) (PG 76-22) (1.5")
- ③ — TYPE SP STRUCTURAL COURSE SP 12.5 (TRAFFIC C) (PG 76-22) (3.5")
- ④ — SOIL CEMENT BASE (10") (300 PSI) WITH PRIME
- ⑤ — TYPE B STABILIZATION (MIN. LBR 40) (12")

**TRAFFIC DATA**

2010 AADT = 4,639  
K = 9.06% D = 51.2%  
DESIGN SPEED = 45 MPH

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



**JOHNSON, MIRMIAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
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**ORANGE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION**

4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME

PROJECT NO.

SADLER RD

5128

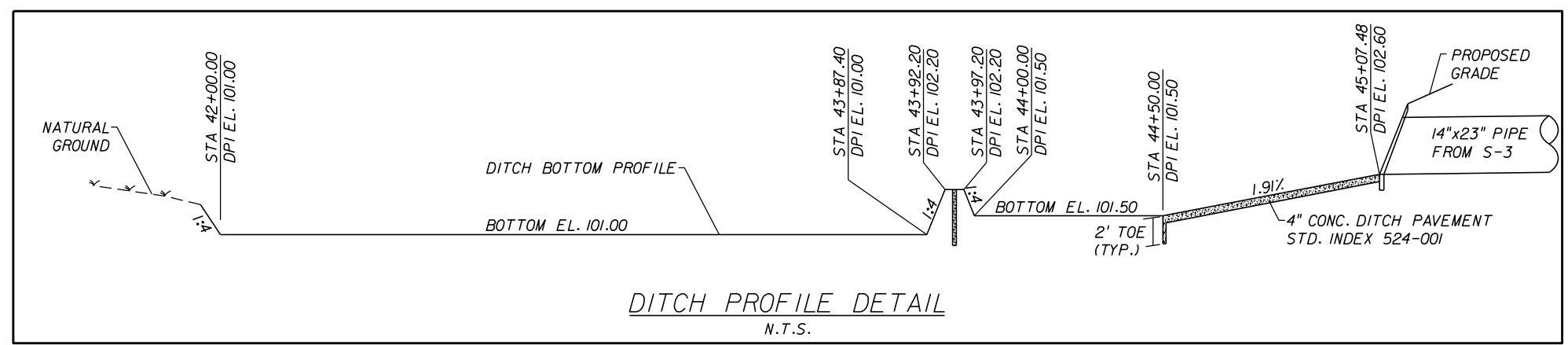
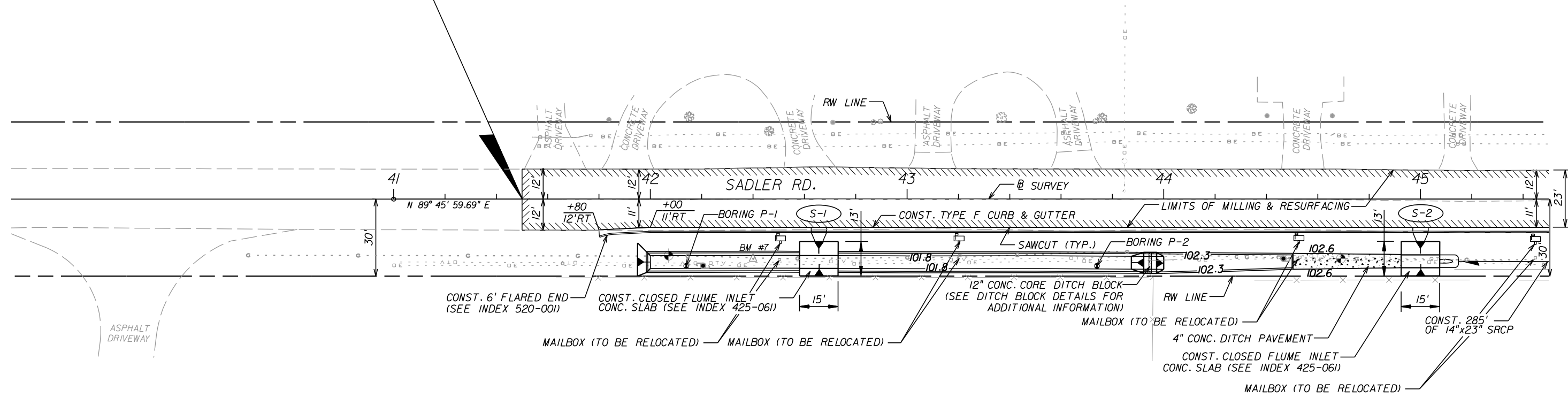
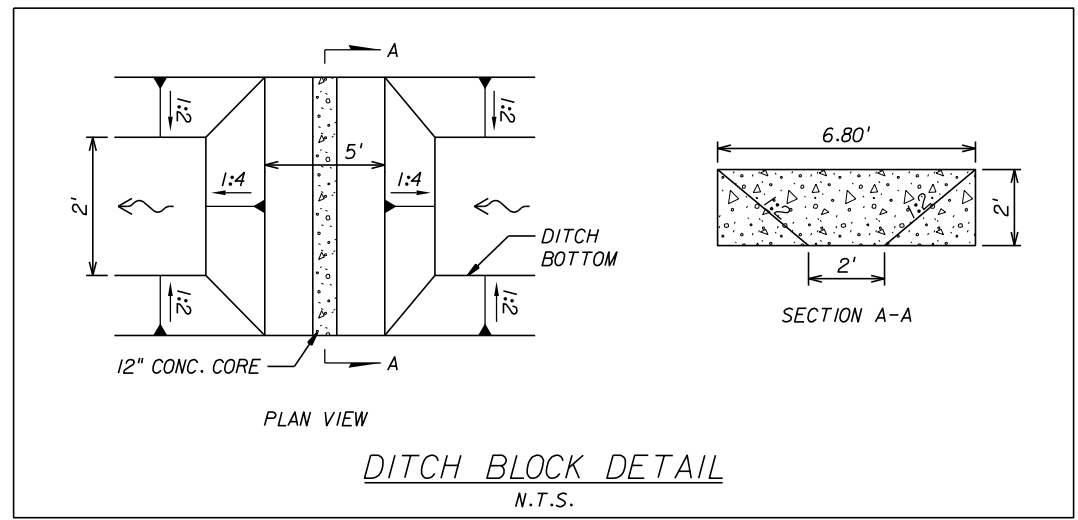
**TYPICAL SECTION**

SHEET  
NO.

5



BEGIN PROJECT  
 BEGIN MILLING & RESURFACING  
 STA 41+50.00



LEGEND:  
 LIMITS OF MILLING & RESURFACING

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

**JOHNSON, MIRMIRAN & THOMPSON**  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
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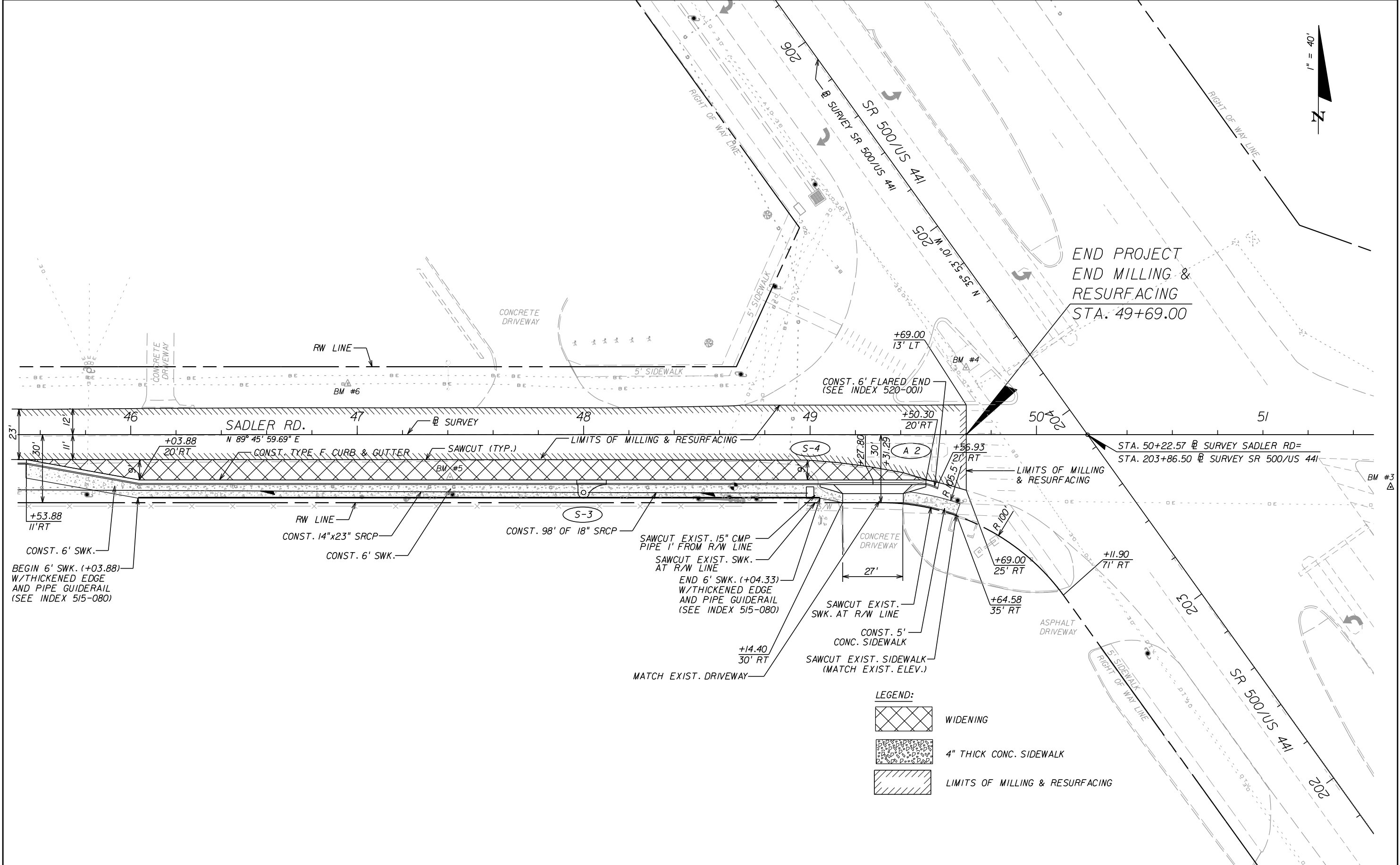
**ORANGE COUNTY PUBLIC WORKS DEPT.  
 ENGINEERING DIVISION**  
 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32837-9205 (407) 836-7950

PROJECT NAME	PROJECT NO.
SADLER RD	5128

**PLAN SHEET**

SHEET NO.  
6

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

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 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746 PHONE 407-833-9898  
 CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT NO.
SADLER RD	5128

**PLAN SHEET**

SHEET NO.
7

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Z:\Roadways\Alexandra\MT\R11-002\_US441and Sadler Ave\Acad

VERIFICATION CHECKER  
 Green Check or Circle & Remark Incorrect  
 REMARK INCORPORATION (Blue Highlighter)  
 CHECKED Corrected (Green) Change (Red)  
 GNN AGA GNN  
 Date: 08/08/12 Date: 08/08/12 Date: 08/08/12  
 GNN AGA GNN  
 CHECKED Corrected (Yellow) Change (Red)  
 CONCURRENCE, ORIGINATOR (Red Check)  
 CHANGE INCORPORATION (Blue Highlighter)  
 GNN AGA GNN  
 Date: 08/08/12 Date: 08/08/12 Date: 08/08/12  
 ORIGINATOR AGA  
 Date: 08/08/12  
 OCOA REVIEW

# NADIC ENGINEERING SERVICES, INC

NES PROJECT No.: R11002  
 ROADWAY: US 441 at Sadler Avenue Intersection Improvements  
 SUBMITTED BY: NES



## SOIL SURVEY REPORT OF TESTS

QUADRANGLE: APOPKA, FLORIDA  
 SECTION: 16  
 TOWNSHIP: 20 SOUTH  
 RANGE: 27 EAST  
  
 LATITUDE BEGINS: N28°50'51.0"  
 LATITUDE ENDS: N28°50'52.4"  
 LONGITUDE BEGINS: W82°02'44.4"  
 LONGITUDE ENDS: W82°02'44.4"  
 DATE REPORTED: AUGUST, 2012

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS					SUBSTRUCTURE ENVIRONMENTAL CLASSIFICATION		
	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	PLASTICITY INDEX		AASHTO GROUP	No. OF TESTS	pH	RESISTIVITY OHM-CM	CHLORIDES PPM	SULFATE PPM	CONCRETE	STEEL
1	--	--	2	3-4	2	100	82-86	69-73	34-37	2	--	--	--	A-3	LIGHT BROWN TO BROWN FINE SAND TO FINE SAND WITH ROOTS	--	--	--	--	--	--	--

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 FDOT SECTION 2-4. FOR FURTHER DETAILS SEE FDOT STANDARD SPECIFICATIONS SECTION 120-3.
- (2) SOIL PARAMETER NOT TESTED DENOTED AS "--" ABOVE.
- (3) GNE INDICATES GROUNDWATER LEVEL NOT ENCOUNTERED AT THE TIME OF SURVEY.  
 INDICATES ESTIMATED SEASONAL HIGH WATER LEVEL.
- (4) REMOVAL OF PLASTIC MATERIAL OCCURRING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX No. 500 UNLESS OTHERWISE STATED IN THE PLANS. THE MATERIAL UTILIZED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX No. 505.
- (5) STRATUM 1 SHALL BE TREATED AS SELECT (S) MATERIALS PER FDOT INDEX No. 505.

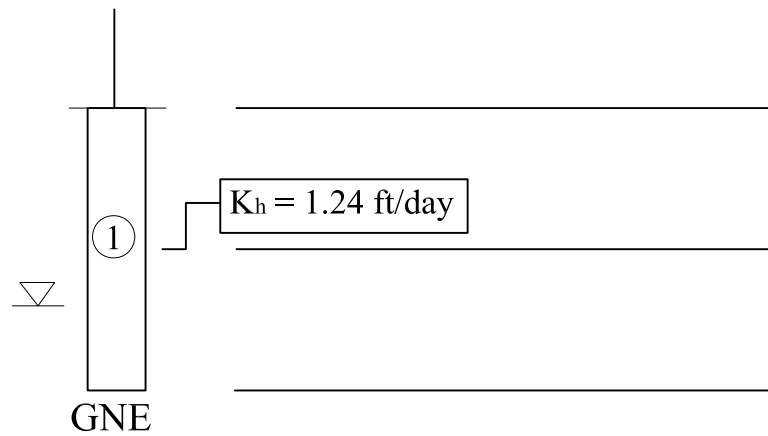
ORANGE COUNTY	REVISIONS			 <b>Civil Geotechnical Environmental Consulting Engineering</b>	ENGINEER OF RECORD: GODWIN N. NNADI, P.E. #50637 NES 601 N. Hart Boulevard ORLANDO, FLORIDA 32818	SEAL:		ORANGE COUNTY PUBLIC WORKS		SHEET TITLE: SOIL SURVEY PROJECT NAME: US 441 at Sadler Avenue Intersection Improvements	Project No. R11002 Sheet No. 8
	DATE	BY	DESCRIPTION					ROAD NAME	COUNTY		

Boring No.:  
 Latitude:  
 Longitude:  
 Date Drilled:

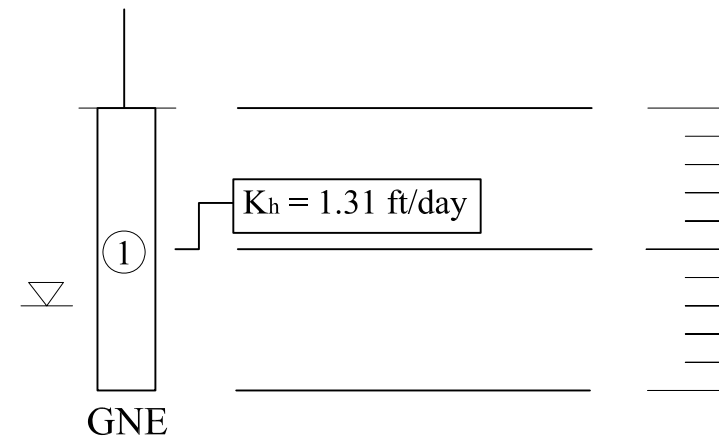
DEPTH IN FEET  
 0  
 5  
 10



**P-1**  
 N28°50'51.0"  
 W82°02'44.4"  
 7-25-12



**P-2**  
 N28°50'52.4"  
 W82°02'44.4"  
 7-25-12



DEPTH IN FEET  
 0  
 5  
 10

### LEGEND

① Light brown to brown fine sand to fine sand with roots, (A-3)

(A-3) A.A.S.H.T.O.: Soil classification group symbol as determined by visual examination

$K_h$  Average Permeability

▽ Estimated seasonal high groundwater level

GNE Groundwater not encountered

#### REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
DRAWN BY: AGA	7-25-12
CHECKED BY: GNV	7-25-12
DESIGNED BY: N/A	N/A
CHECKED BY: N/A	N/A
APPROVED BY:	

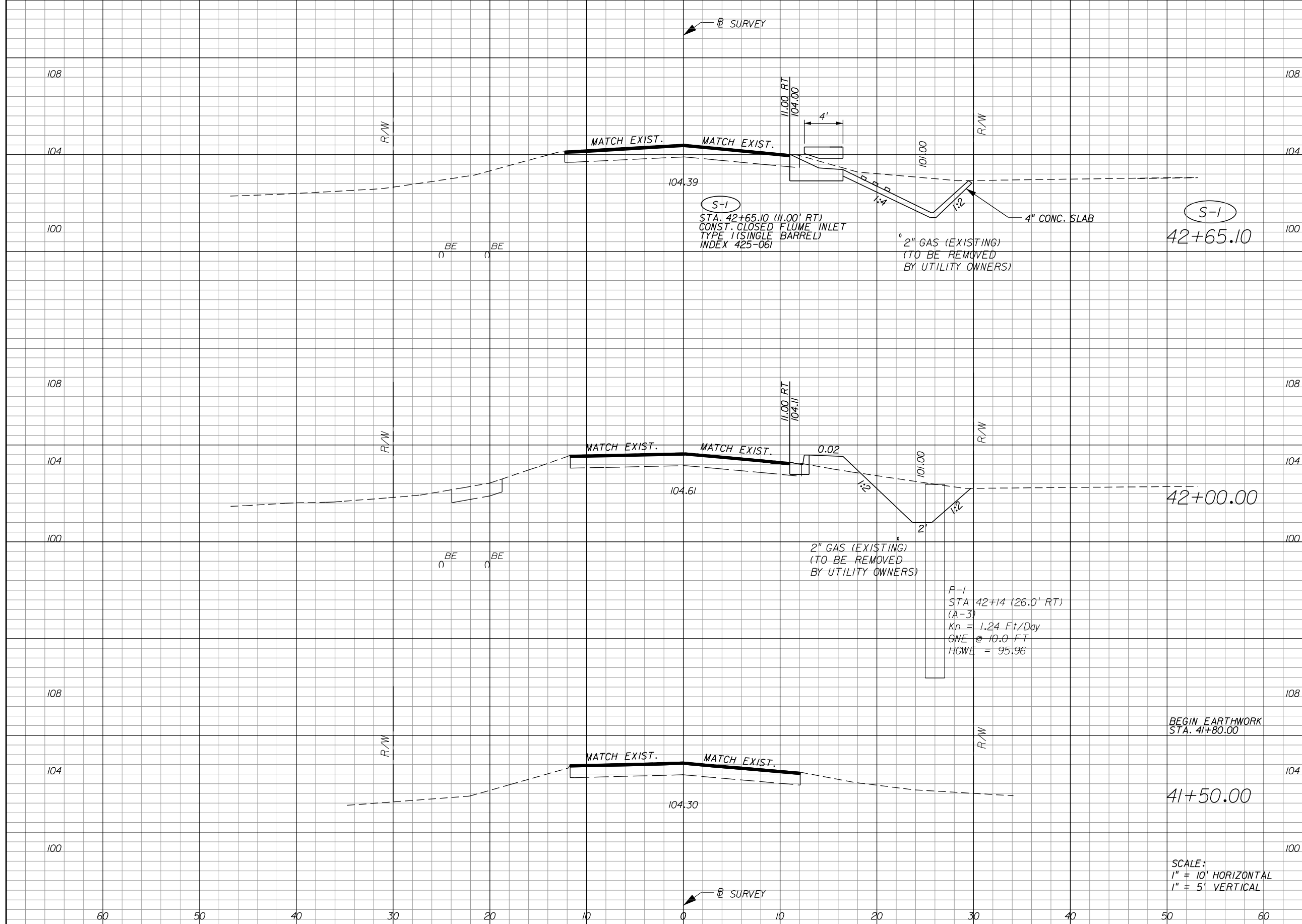
**NES**  
 CIVIL  
 GEOTECHNICAL  
 ENVIRONMENTAL  
 CONSULTING ENGINEERING

GODWIN N. NNADI, Ph.D., P.E.  
 FL. REG. NO. 50637  
 NADIC ENGINEERING SERVICES, INC.  
 601 N. HART BOULEVARD  
 ORLANDO, FL 32818  
 PH (407) 521-4771 FAX (407) 521-4772  
 CERTIFICATE OF AUTHORIZATION NO. 8214



ORANGE COUNTY PUBLIC WORKS	
COUNTY	PROJECT NO.
ORANGE	5128

SHEET TITLE: REPORT OF AUGER BORINGS	SHEET NO. 9
PROJECT NAME: US 441 AT SADLER AVE INTERSECTION IMPROVEMENTS	



Regular		Exc.		Embankment	
A	V	A	V	A	V
21.4			44	0.0	3
15.0			0	2.9	0
0.0				0.0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



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 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT ID
SADLER RD	5128

**CROSS SECTIONS**

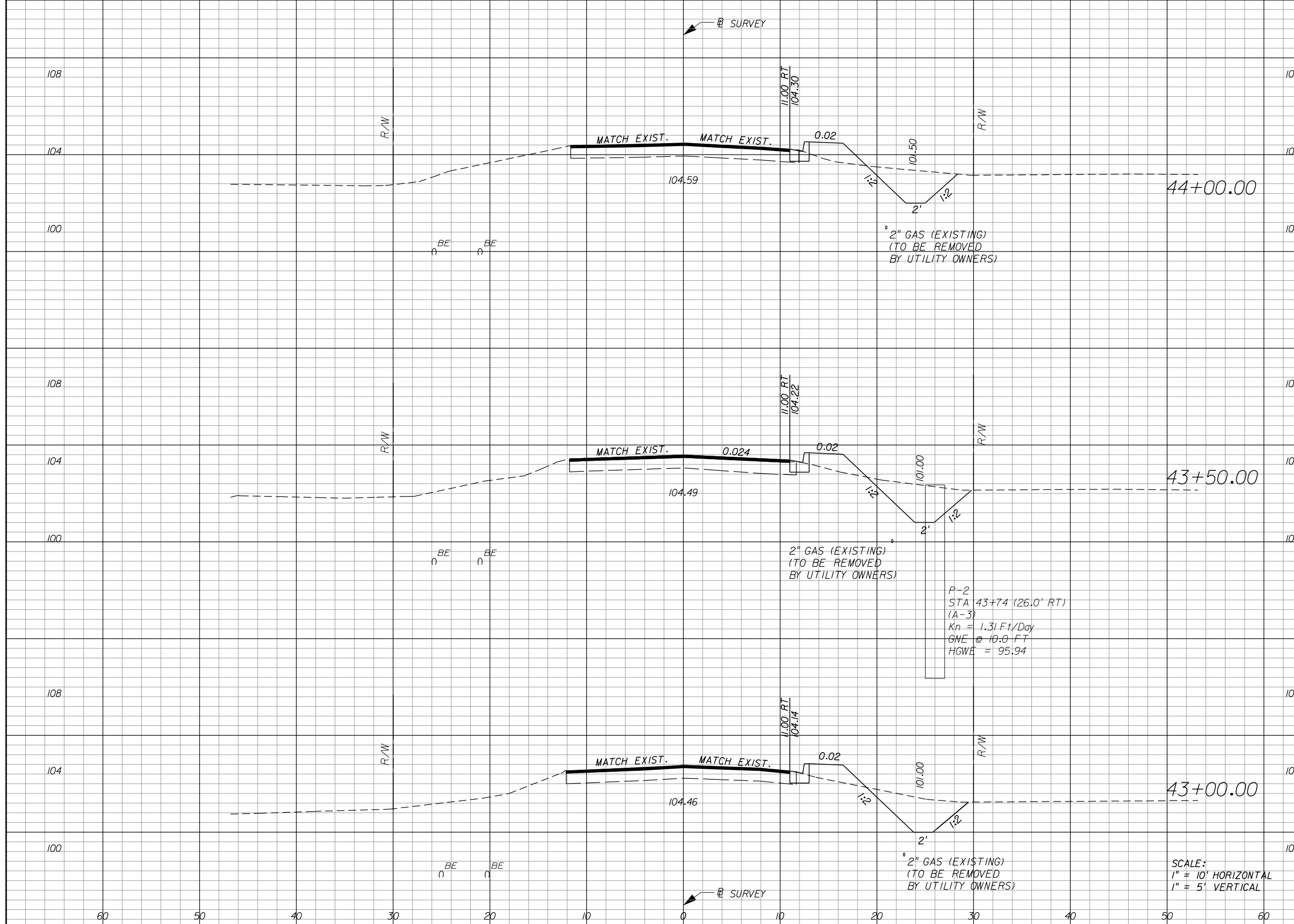
SCALE:  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

SHEET NO.
10

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Regular Exc.    Embankment

A    V    A    V



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
44+00.00	10.7		4.2	
43+50.00	13.3	22	3.4	7
43+00.00	12.0	23	3.8	7
		22		2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

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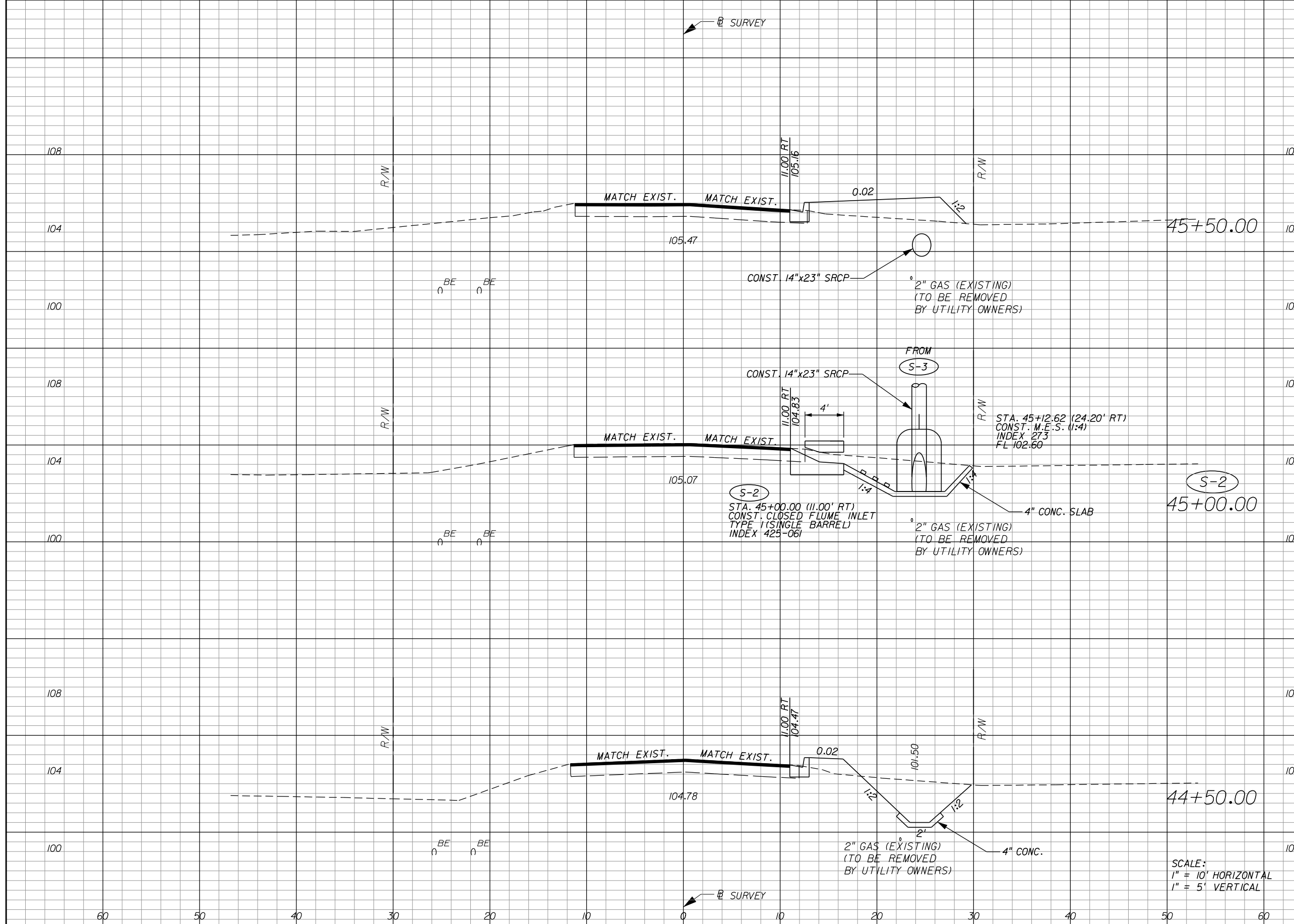
**CROSS SECTIONS**

SHEET NO.  
11

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Regular Exc.    Embankment

A    V    A    V



Station	Regular Exc.		Embankment	
	A	V	A	V
45+50.00	1.2		13.8	
45+00.00	25.9	25	0.0	13
44+50.00	15.5	38	3.1	3
		24		7

SCALE:  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

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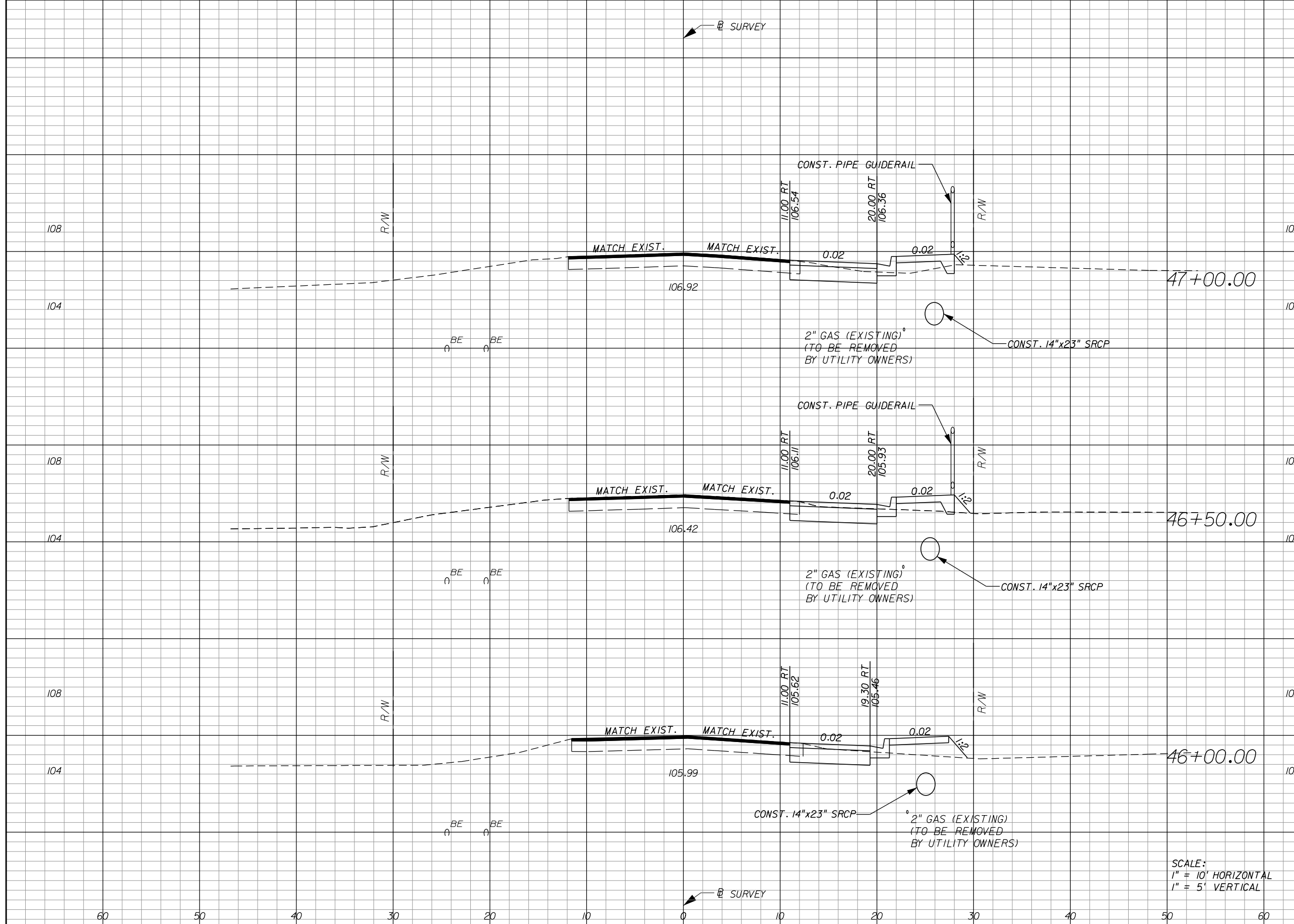
**CROSS SECTIONS**

SHEET NO.  
12

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

Regular Exc.    Embankment

A    V    A    V



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
47+00.00	7.4	15	3.1	6
46+50.00	8.3	15	3.6	8
46+00.00	7.9	8	4.8	17

SCALE:  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT ID
SADLER RD	5128

**CROSS SECTIONS**

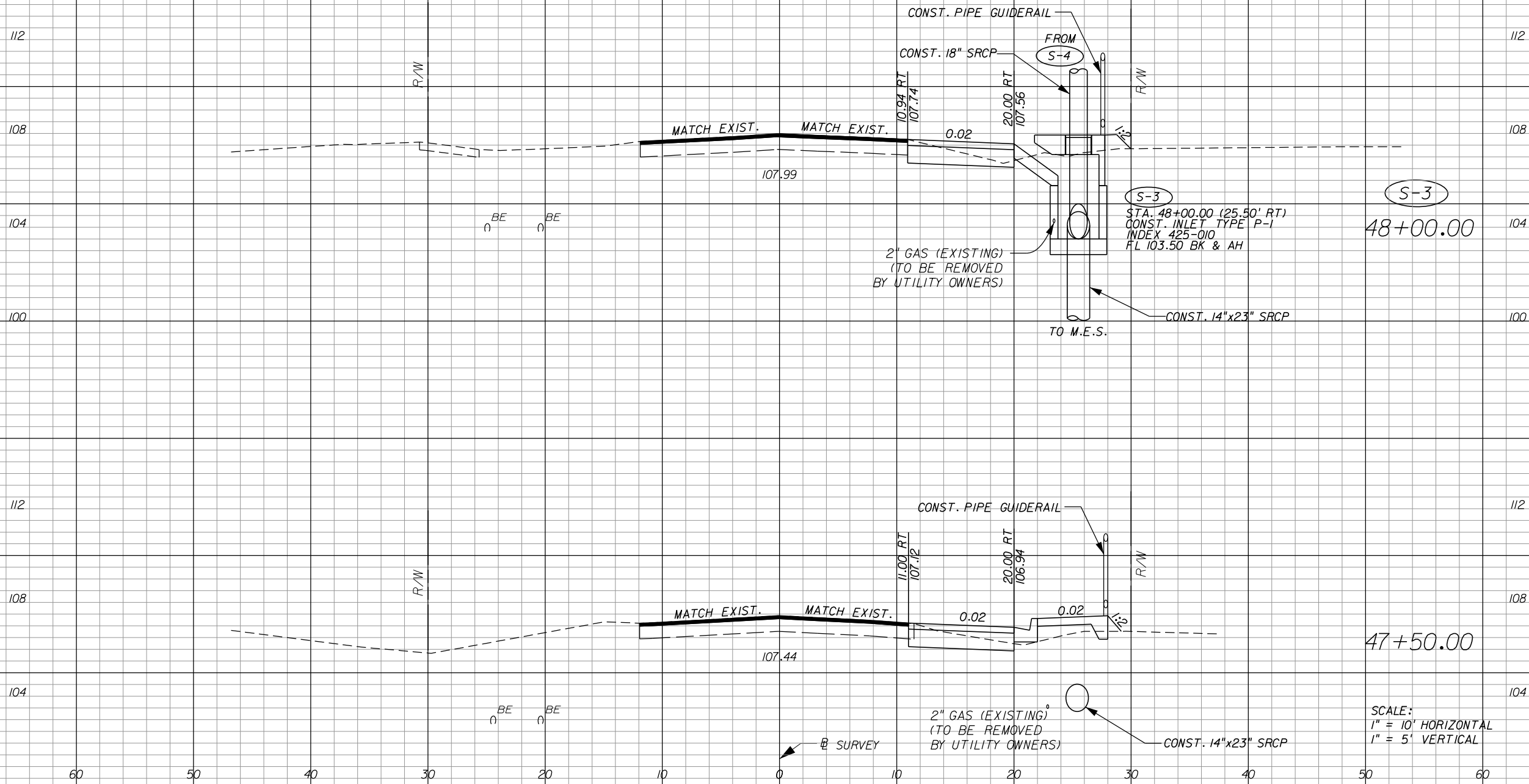
SHEET NO.  
**13**

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



Regular Exc.    Embankment

A    V    A    V



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
48+00.00	5.2		4.1	
47+50.00		10		7
		12	3.3	6

SCALE:  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT ID
SADLER RD	5128

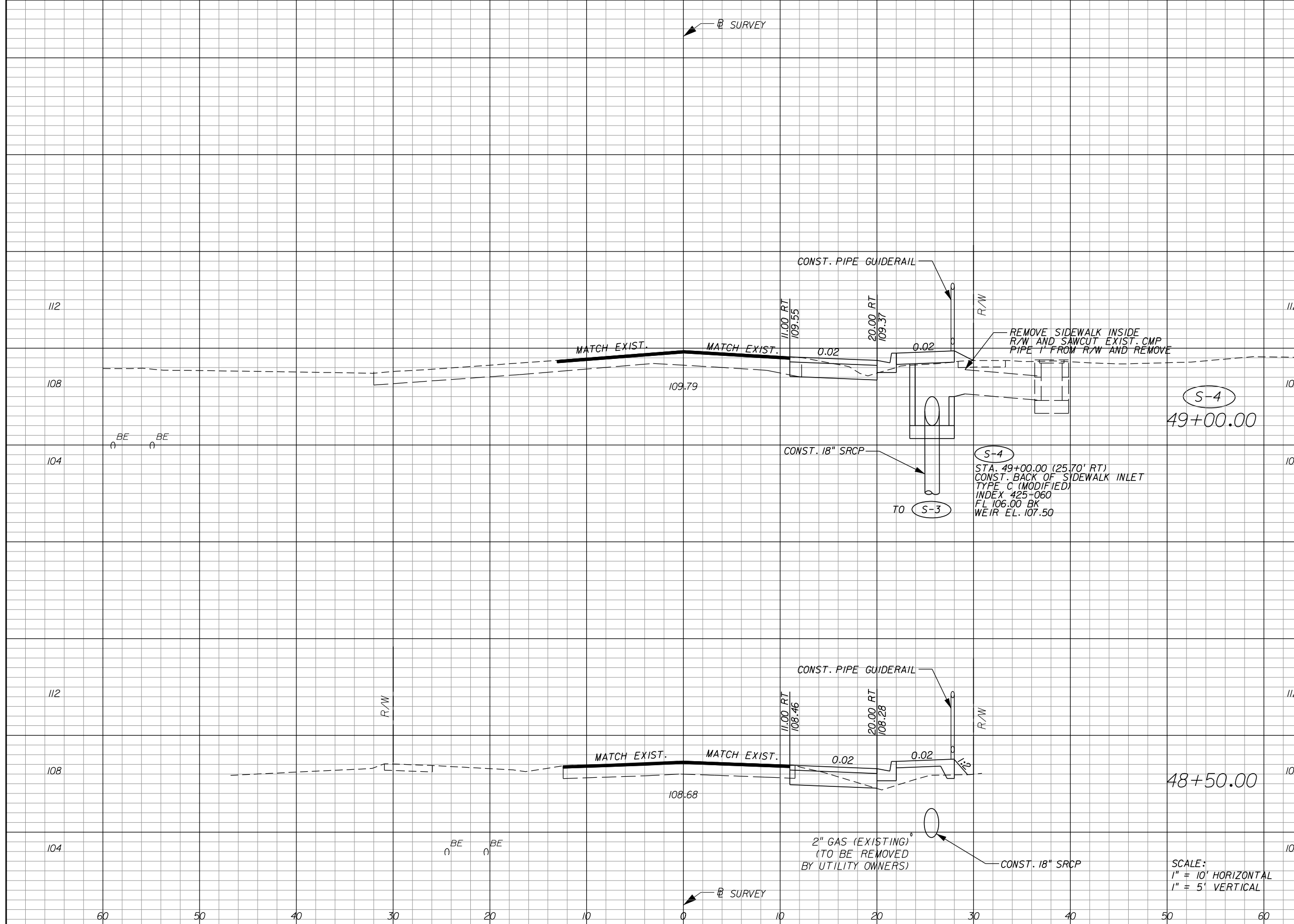
**CROSS SECTIONS**

SHEET NO.  
**14**

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

Regular Exc. Embankment

A V A V



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
49+00.00	3.7		1.3	
48+50.00	4.9		5.0	
		8		6
		9		8

S-4  
49+00.00

S-4  
STA. 49+00.00 (25.70' RT)  
CONST. BACK OF SIDEWALK INLET  
TYPE C (MODIFIED)  
INDEX 425-060  
FL 106.00 BK  
WEIR EL. 107.50

48+50.00

SCALE:  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

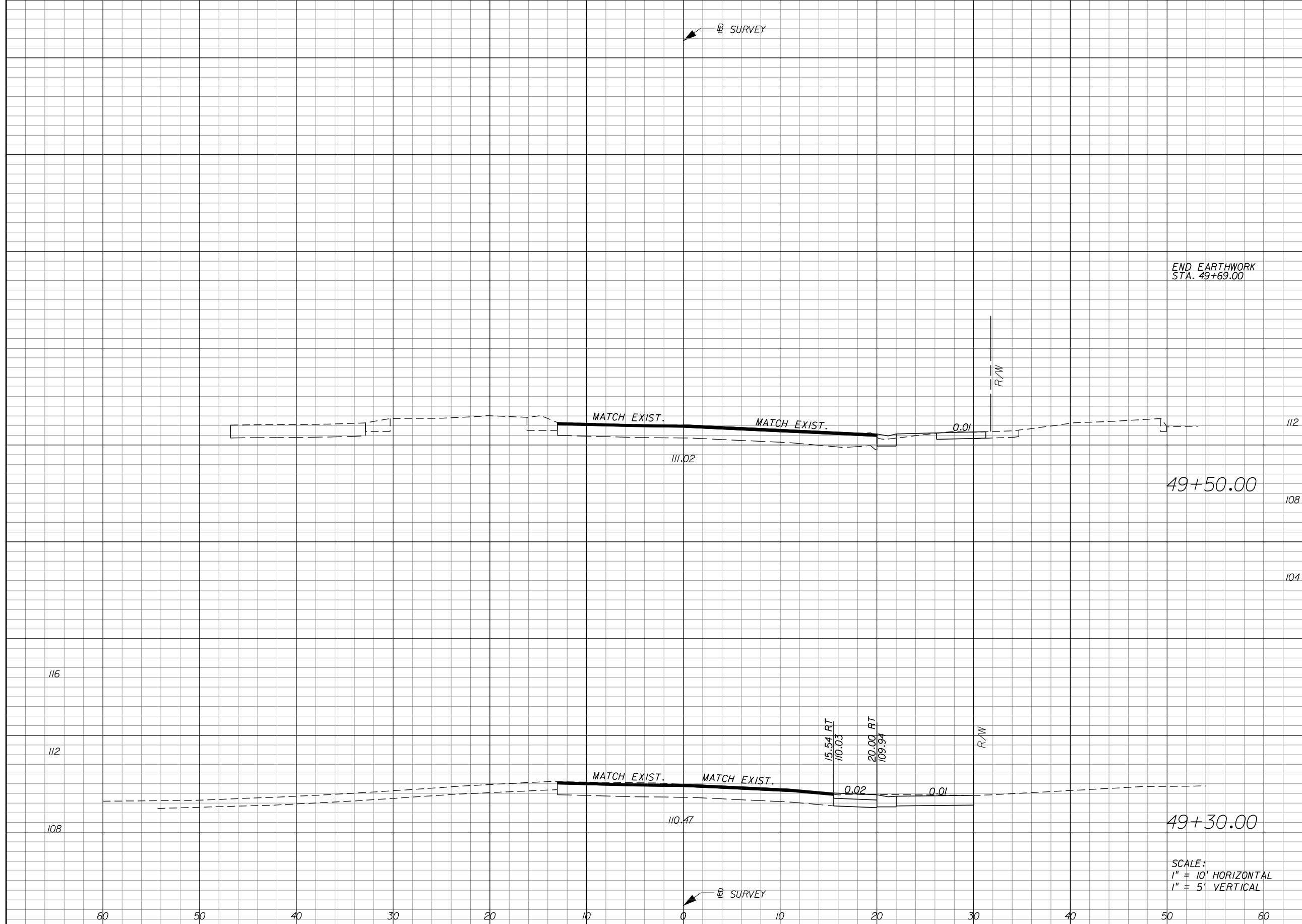
**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT ID
SADLER RD	5128

**CROSS SECTIONS**

SHEET NO.  
15

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.0		0.0			
	14			0	
6.0		0.0			
	6			0	
11.1		0.0			
	8			1	

SCALE:  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)  
**JMT**  
**JOHNSON, MIRMIRAN & THOMPSON**  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746 PHONE 407-833-9898  
 CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT ID
SADLER RD	5128

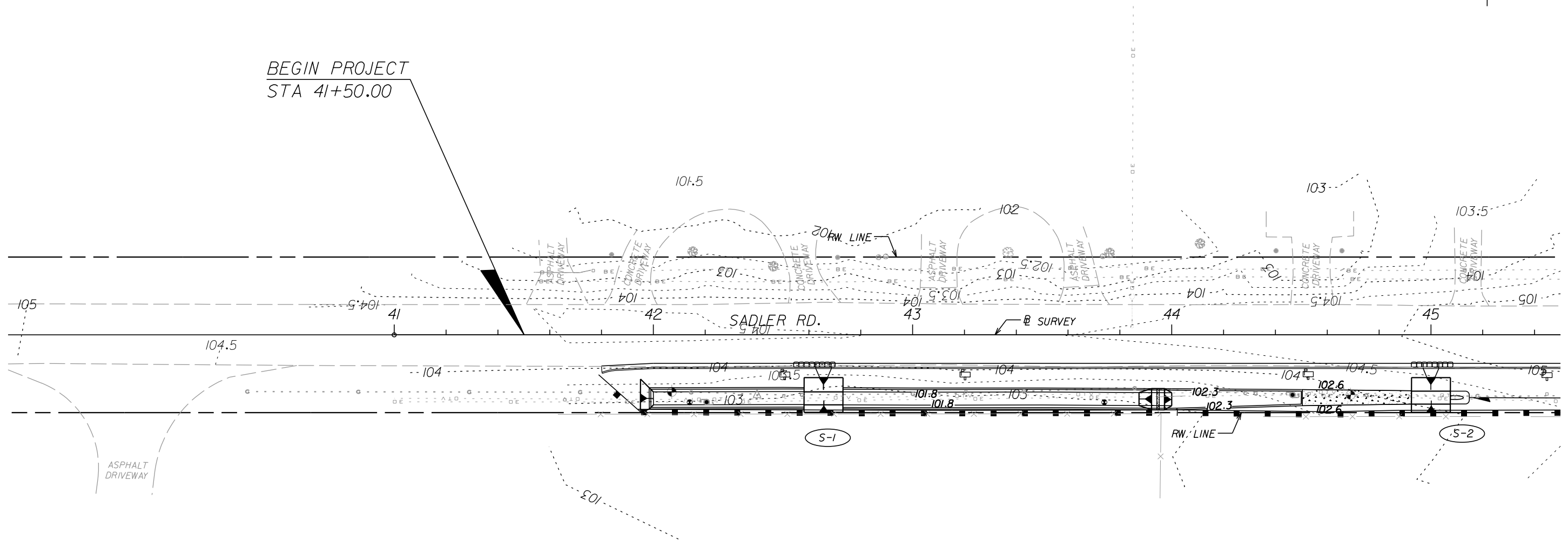
**CROSS SECTIONS**

SHEET NO.  
 16

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



BEGIN PROJECT  
STA 41+50.00



**LEGEND**

- INLET PROTECTION SYSTEM
- SILT FENCE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

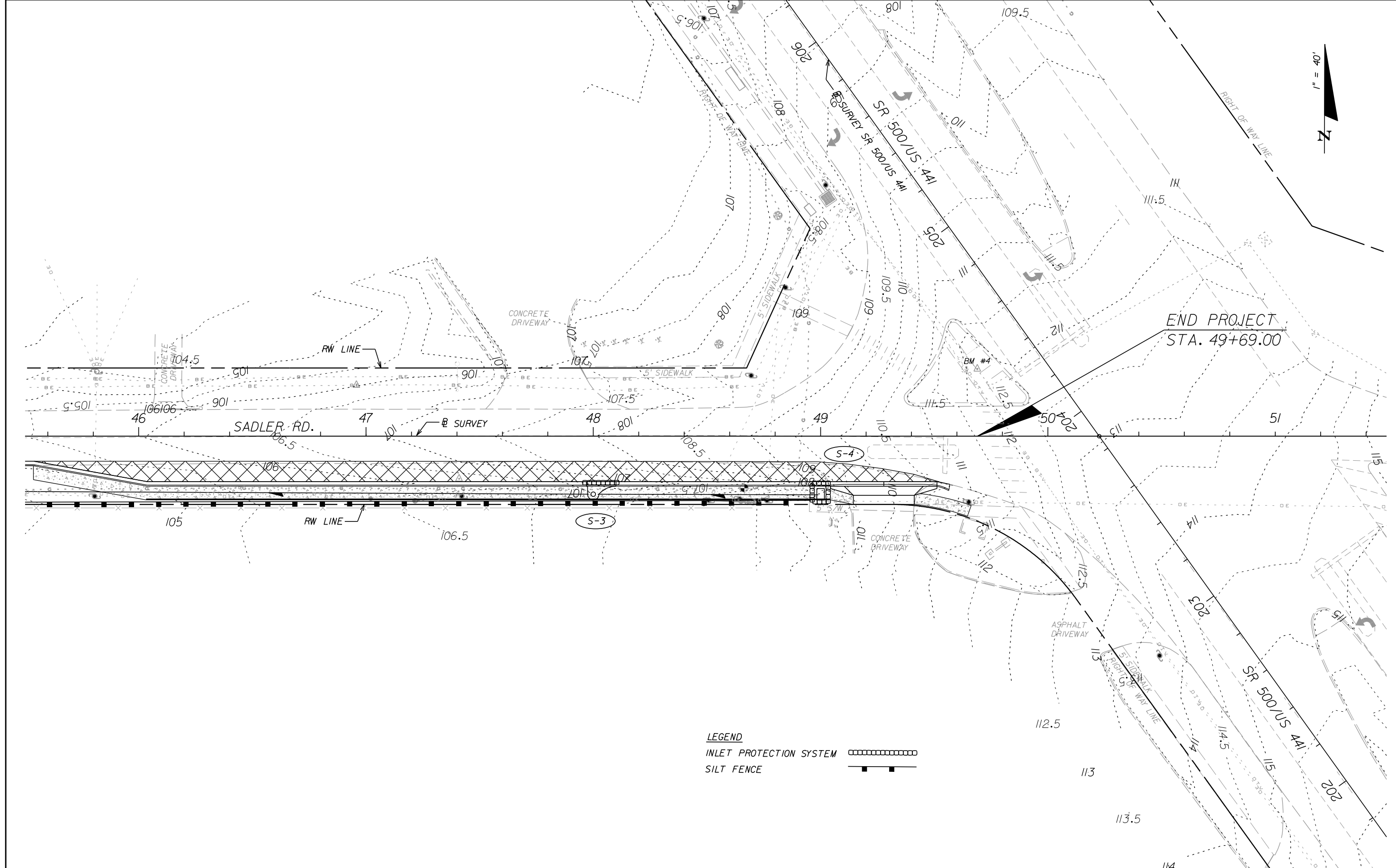
**ORANGE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950



PROJECT NAME	PROJECT NO.
SADLER RD	5128

**STORMWATER POLLUTION  
PREVENTION PLAN**

SHEET NO.  
17

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



**LEGEND**  
 INLET PROTECTION SYSTEM   
 SILT FENCE 

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



**JOHNSON, MIRMIRAN & THOMPSON**  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746 PHONE 407-833-9898  
 CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.  
 ENGINEERING DIVISION**  
 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT NO.
SADLER RD	5128

**STORMWATER POLLUTION  
 PREVENTION PLAN**

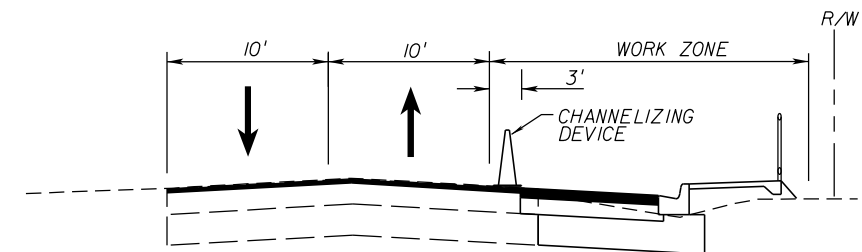
SHEET NO.  
 18

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

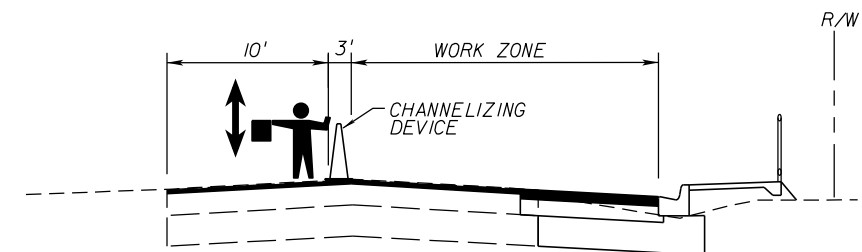
GENERAL NOTES

1. FOR MAINTENANCE OF TRAFFIC DETAILS, REFER TO FDOT ROADWAY STANDARD PLANS FY2018-19 EDITION.
2. THE SPEED LIMIT IN THE WORK ZONE SHALL REMAIN AT THE EXISTING SPEED LIMIT (45 MPH).
3. NO LANE CLOSURES ARE ALLOWED BETWEEN THE HOURS OF 6:30AM AND 8:00PM. A LANE CLOSURE IS NOT PERMITTED WHEN NO WORK IS BEING PERFORMED.
4. THE CONTRACTOR SHALL APPLY SHOULDER TREATMENT TO ANY DROP-OFF CONDITIONS PER INDEX 600 PRIOR TO THE END OF THE WORK PERIOD.
5. CONTRACTORS SHALL PROVIDE WRITTEN NOTIFICATION TO THE RESIDENTS/BUSINESSES AFFECTED BY CONSTRUCTION ACTIVITIES, ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE NOTIFICATION TO THE PROJECT ENGINEER PRIOR TO DISTRIBUTION.
6. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
7. THE LOCATION OF ALL TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS IS APPROXIMATE ONLY AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET ACTUAL FIELD CONDITIONS.
8. HEAVY TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE RESTRICTION OR REMOVAL OF ANY LANE CLOSURE. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS WITHOUT DELAY AT THE DIRECTION OF THE ENGINEER. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF NOTICE OF EVACUATION DUE TO A HURRICANE OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE ENGINEER.
9. ALL TEMPORARY MARKINGS SHALL BE IN PLACE ONE (1) HOUR BEFORE OPENING THE ROAD TO TRAFFIC.
10. THE CONTRACTOR MUST MAINTAIN ADEQUATE DRAINAGE AND HISTORICAL DRAINAGE PATTERN TO PREVENT FLOODING OR DRAINAGE TO FLOW TO ROADWAY, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AND CONTINUITY OF EXISTING DRAINAGE SYSTEM.
11. EXISTING PAVEMENT MARKINGS, WHICH ARE TO BE OBLITERATED SHALL BE RESTORED TO ITS ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REINSTATING TRAFFIC.
12. EXISTING REGULATORY AND WARNING SIGNS ARE TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL USE AN OFF-DUTY LAW ENFORCEMENT OFFICER WHEN WORKING WITHIN THE INTERSECTION AND WHEN CLOSING LANES AT NIGHT. OFFICER SHALL BE AN ORANGE COUNTY SHERIFF'S DEPUTY IN A MARKED CAR.

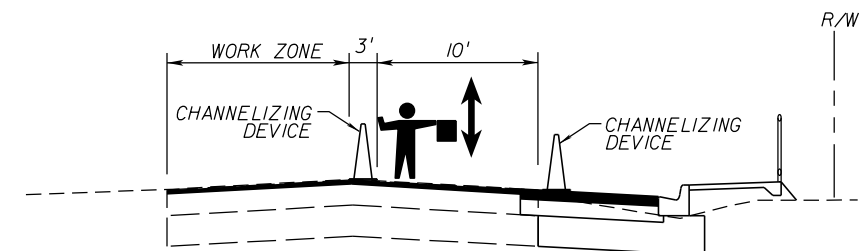
PHASE I  
DURING ACTIVE  
WORK PERIOD



PHASE II  
EB M&R



PHASE II  
WB M&R



TEMPORARY TRAFFIC CONTROL PHASING NOTES

PHASE I: (EB ROADWAY IMPROVEMENTS)

1. INSTALL ALL ADVANCE WARNING DEVICES, BARRICADES, AND TEMPORARY SIGNAGE FOR PHASE I.
2. INSTALL ALL POLLUTION PREVENTION DEVICES.
3. COMMENCE CLEARING & GRUBBING ACTIVITIES.
4. CONSTRUCT THE PROPOSED IMPROVEMENTS EB SADLER RD, INCLUDING DRAINAGE STRUCTURES AND PIPES AND ROADWAY WIDENING (EXCLUDING THE FRICTION COURSE).

PHASE II: (MILLING & RESURFACING IMPROVEMENTS)

1. MILL AND RESURFACE AND PLACE THE PAVEMENT MARKINGS AS SHOWN IN THE SIGNING AND PAVEMENT MARKING PLANS.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

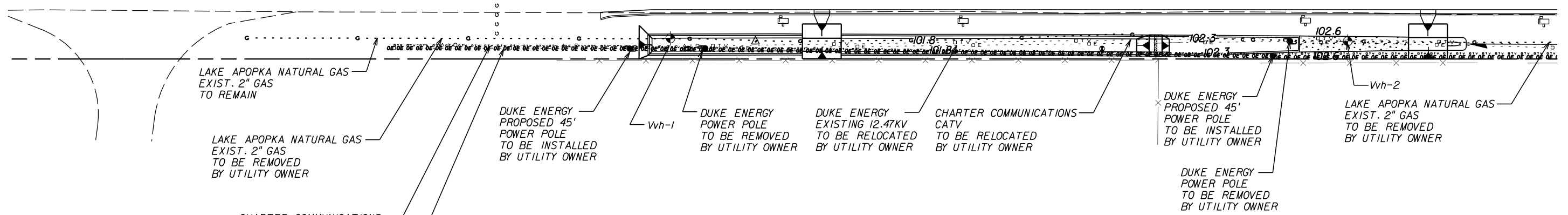
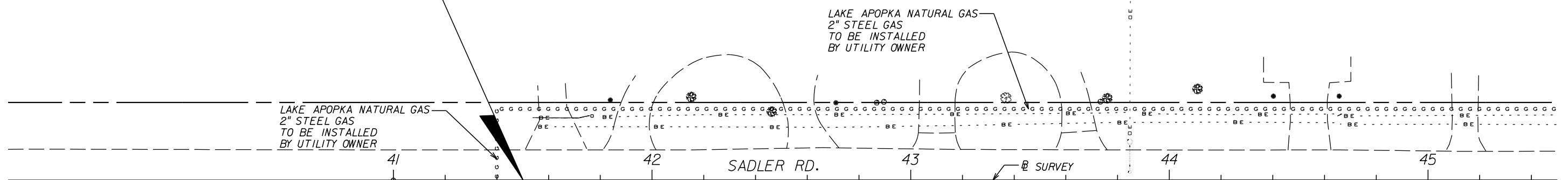
PROJECT NAME	PROJECT NO.
SADLER RD	5128

**TEMPORARY TRAFFIC  
CONTROL PLAN**

SHEET  
NO.  
  
19



BEGIN PROJECT  
STA 41+50.00



SUMMARY OF VERIFIED UTILITIES

Vvh #	Utility Description	Size Dia (in.)	Material	Sta.	Offset	Existing Ground Elev.	Top Elev.
1	Gas Line Lake Apopka Natural Gas	2"	Steel	42+06.10	22.2' Rt	103.3	100.3
2	Gas Line Lake Apopka Natural Gas	2"	Steel	44+68.97	23.2' Rt	103.9	100.9
3	Gas Line Lake Apopka Natural Gas	2"	Steel	48+66.44	22.8' Rt	107.9	105.2

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)

**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

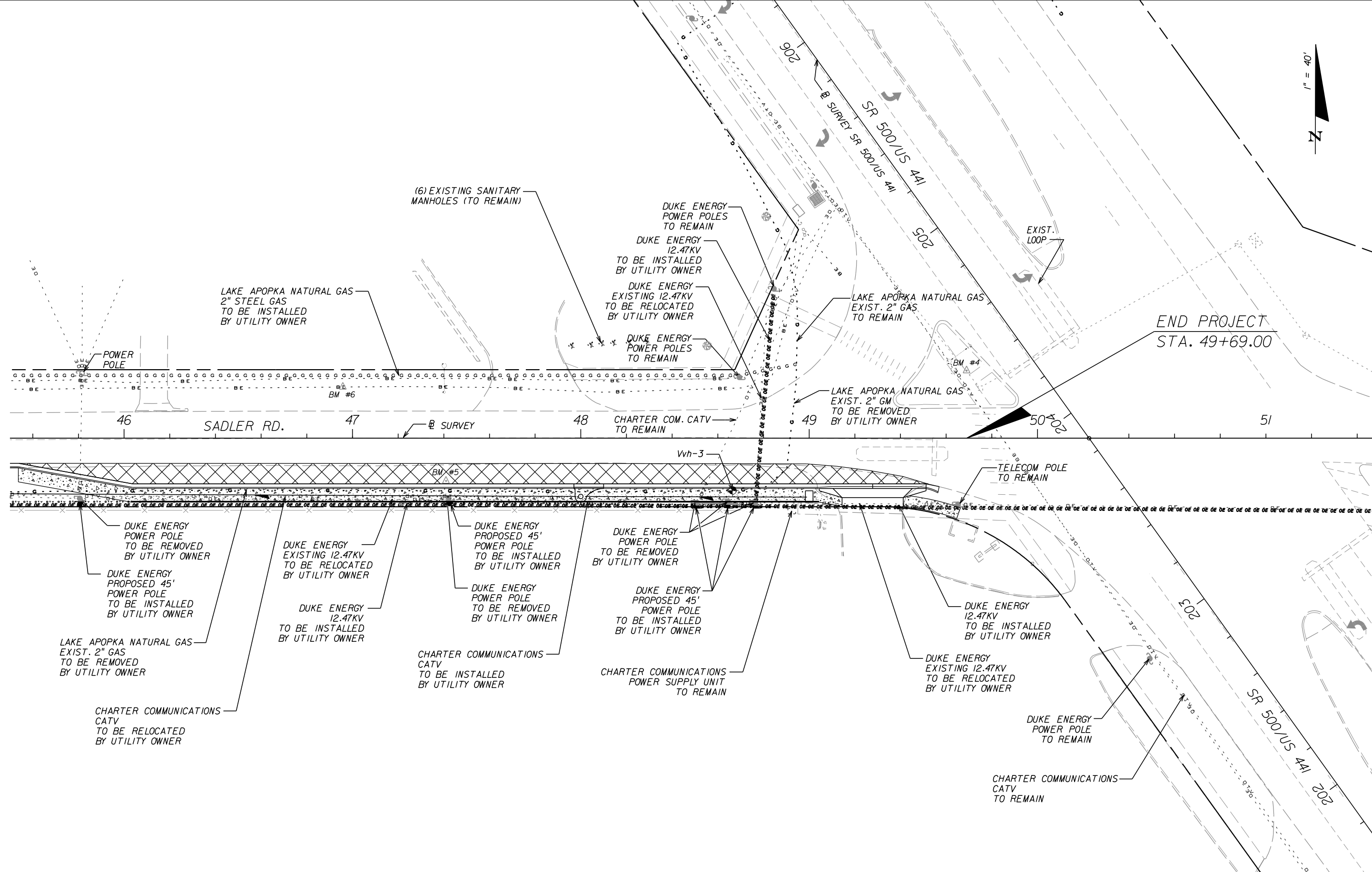
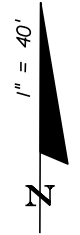
**ORANGE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950

PROJECT NAME	PROJECT NO.
SADLER RD	5128

**UTILITY ADJUSTMENTS**

SHEET NO.  
20

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END PROJECT STA. 49+69.00

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREGORY T. SMITH, P.E. (No. 39087)



**JOHNSON, MIRMIRAN & THOMPSON**  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746 PHONE 407-833-9898  
CERTIFICATE OF AUTHORIZATION No.: 5917

**ORANGE COUNTY PUBLIC WORKS DEPT.**  
**ENGINEERING DIVISION**  
4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32837-9205 (407) 836-7950

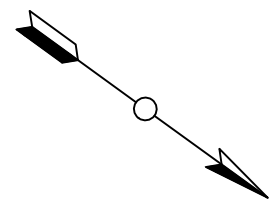
PROJECT NAME	PROJECT NO.
SADLER RD	5128

**UTILITY ADJUSTMENTS**

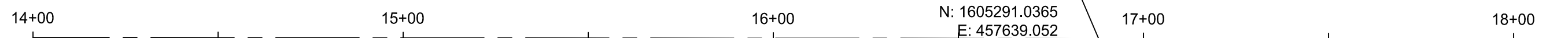
SHEET NO. 21

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

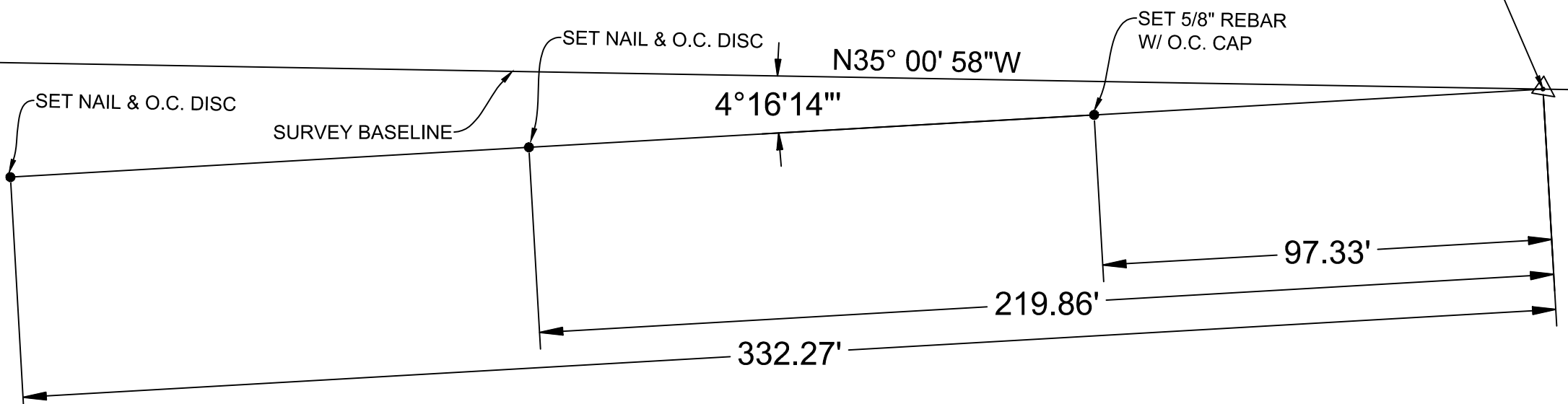




RIGHT OF WAY LINE



SITE BM #1  
 SET 1" IRON PIPE W/ O.C.  
 TRAVERSE CAP & MAG NAIL  
 N: 1605291.0365  
 E: 457639.052  
 ELEVATION: 115.489'



N. ORANGE BLOSSOM  
 (RIGHT OF WAY WIDTH VAI  
 RIGHT OF WAY MAP SECT  
 7502-107, PAGE 7)

**SURVEYOR'S NOTE**

1. ALL BEARINGS HERON ARE RELATIVE TO THE NAD83 STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (0901), AND RELATIVE TO THE FOLLOWING PUBLISHED HORIZONTAL CONTROL POINT:

CERTIFIED CORNER RECORD # 47871  
 RECOVERED 1" AXLE IN WELL BOX  
 N: 1605510.316 E: 455478.140

CERTIFIED CORNER RECORD # 47877  
 RECOVERED 1-3/4" IRON PIPE 1' +/- BELOW NATURAL GROUND  
 N: 1602881.119 E: 458159.434

CERTIFIED CORNER RECORD # 47864  
 RECOVERED 6X6 CONCRETE MONUMENT TOP BROKEN 1" IRON PIPE  
 N: 1608157.921 E: 458114.746

2. ALL ELEVATIONS SHOWN HEREON ARE IN 88 DATUM AND REFERENCED TO THE FOLLOWING BENCHMARKS:

C-880-013 - RECOVERED 2.5" O.C. CONTROL DISC AT S.W. CORNER OF CONCRETE ENTRANCE TO BIGLER LANE ON N. SIDE OF SADLER ROAD.  
 ELEVATION - 84.604' (PUBLISHED)

C-880-007 - RECOVERED 2.5" O.C. CONTROL DISC ON E. SIDE OF DROP INLET AT N.W. CORNER OF MOBIL GAS STATION; S.W. CORNER OF SADLER ROAD & ORANGE BLOSSOM TRAIL.  
 ELEVATION - 109.558' (PUBLISHED)

RIGHT OF WAY LINE

User Name: jmh313  
 Drawing Name: I:\2017 Projects\7986 Sadler Rd @ US 441\7986 Sadler Rd @ US 441\7986 Sadler Rd @ US 441 Intersections.dwg  
 May 15, 2017 - 10:01am

REVISIONS		
DATE	BY	DESCRIPTION
10/24/13	ICW	CHANGED SHEET NUMBER BY REQUEST FROM JMT

ORANGE COUNTY PUBLIC WORKS  
 ENGINEERING DIVISION  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7908

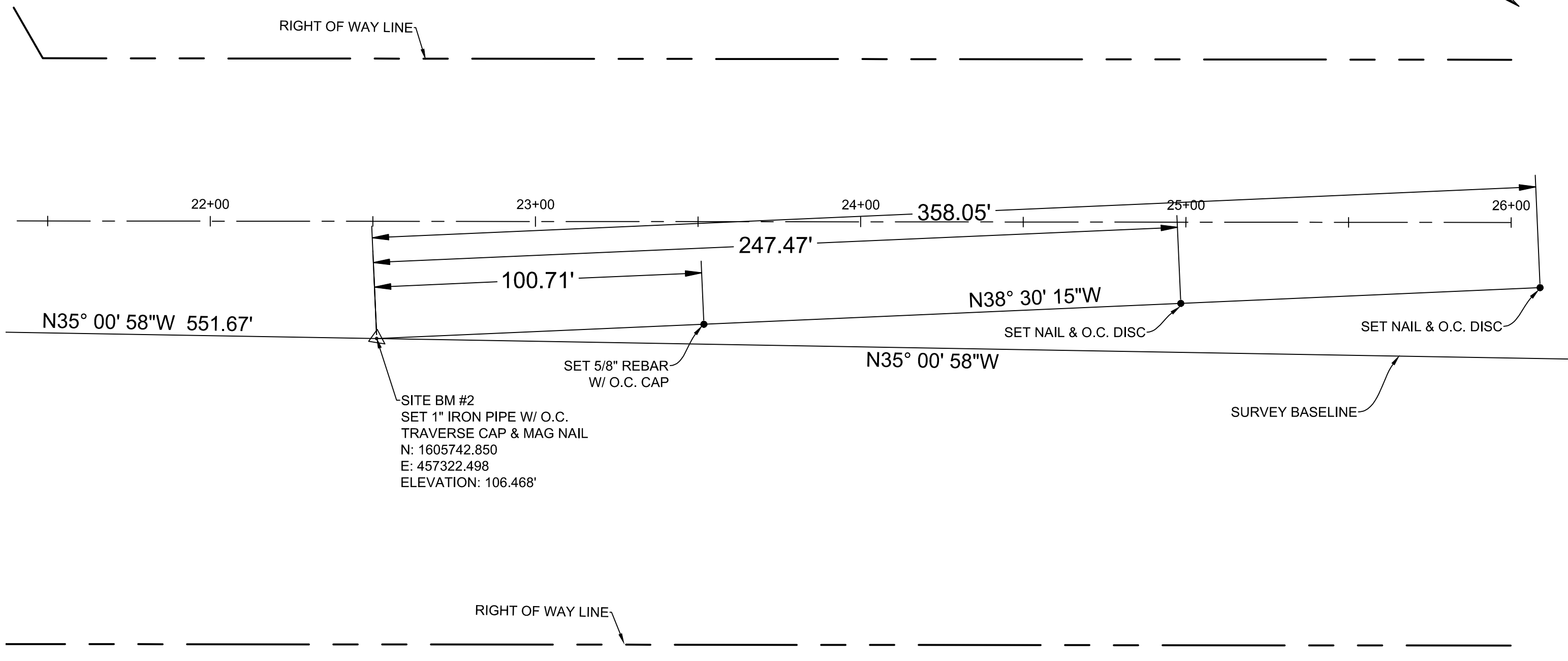
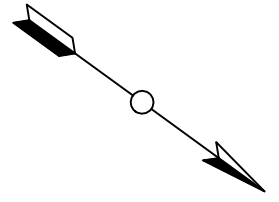


SURVEY SECTION  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7940

SURVEY CONTROL SHEETS  
 SADLER RD. & U.S. 441  
 16-20-27

CALCULATED BY: Clark, Ron	DATE: 7/20/11
SURVEYED BY: Crew # 2	DATE: 7/20/11
DRAWN BY: Washington, Icie	DATE: 5/15/17
APPROVED BY: Daynes, Mark	DATE: 5/15/17

DRAWING SCALE: 1"=30'	DRAWING PROJECT NUMBER: 1000-6780
PREPARED FOR: ENGINEERING DESIGN	SHEET 22



SITE BM #2  
 SET 1" IRON PIPE W/ O.C.  
 TRAVERSE CAP & MAG NAIL  
 N: 1605742.850  
 E: 457322.498  
 ELEVATION: 106.468'

SET 5/8" REBAR  
 W/ O.C. CAP

SET NAIL & O.C. DISC

SET NAIL & O.C. DISC

SURVEY BASELINE

User Name: jmt37  
 Drawing Name: I:\2017 Projects\7986 Sadler Rd @ US 441\7986 Sadler Rd @ US 441 Intersection.dwg  
 May 15, 2017 - 10:01am

REVISIONS		
DATE	BY	DESCRIPTION
10/24/13	ICW	CHANGED SHEET NUMBER BY REQUEST FROM JMT

**ORANGE COUNTY PUBLIC WORKS  
 ENGINEERING DIVISION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7908



**SURVEY SECTION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7940

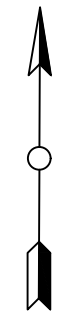
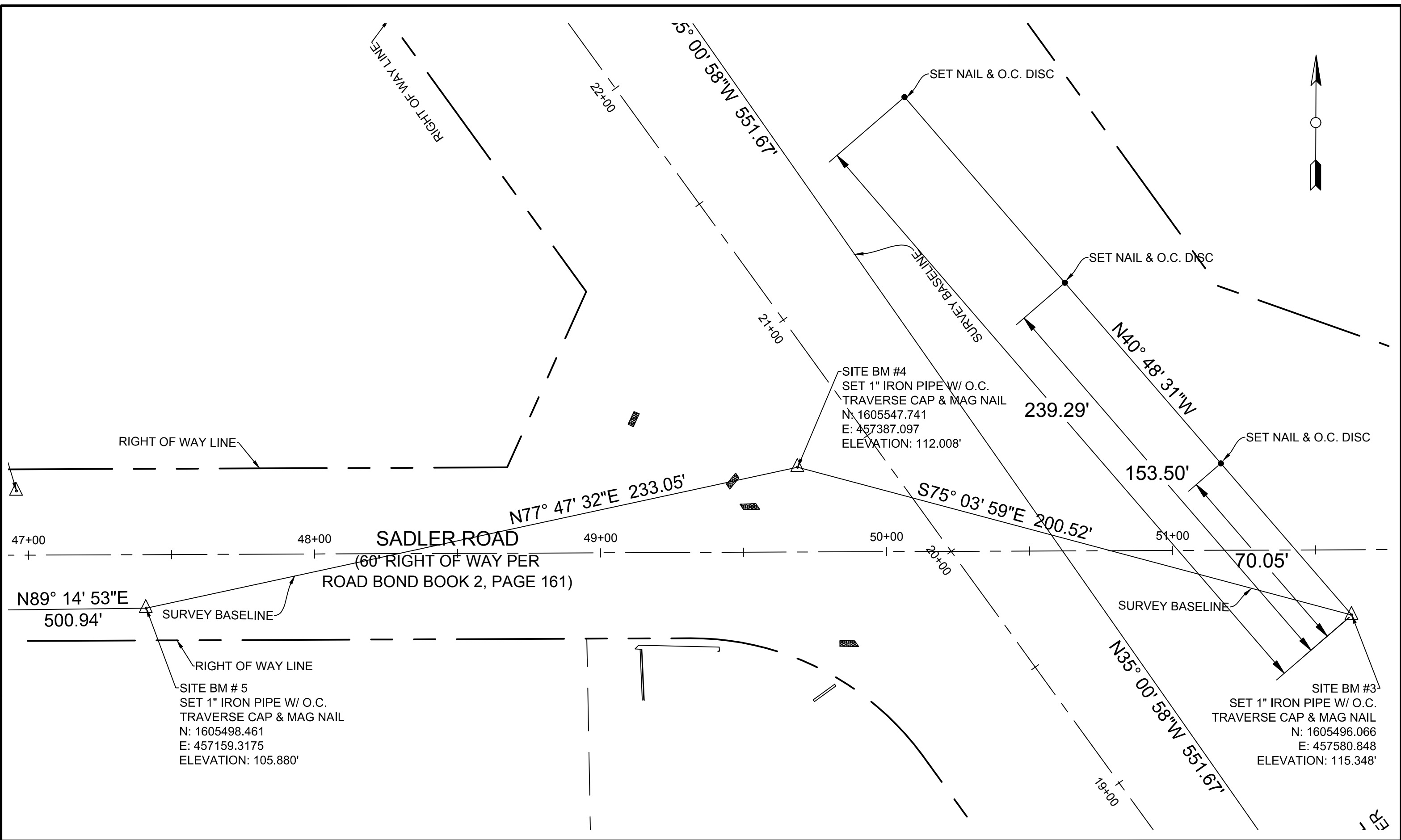
**SURVEY CONTROL SHEETS**  
 SADLER RD. & U.S. 441  
 16-20-27

CALCULATED BY: Clark, Ron  
 SURVEYED BY: Crew # 2  
 DRAWN BY: Washington, Icie  
 APPROVED BY: Daynes, Mark

DATE: 7/20/11  
 DATE: 7/20/11  
 DATE: 5/15/17  
 DATE: 5/15/17

DRAWING SCALE:  
 1"=30'  
 PREPARED FOR:  
 ENGINEERING DESIGN

DRAWING PROJECT NUMBER:  
 1000-6780  
**SHEET 23**



User Name: jmh213  
 Drawing Name: I:\2017 Projects\7988 Sadler Rd @ US 441\7988 Sadler Rd @ US 441\7988 Sadler Rd @ US 441 Intersections.dwg  
 May 15, 2017 - 10:01am

REVISIONS		
DATE	BY	DESCRIPTION
10/24/13	ICW	CHANGED SHEET NUMBER BY REQUEST FROM JMT

**ORANGE COUNTY PUBLIC WORKS  
 ENGINEERING DIVISION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7908



**SURVEY SECTION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7940

**SURVEY CONTROL SHEETS**  
 SADLER RD. & U.S. 441  
 16-20-27

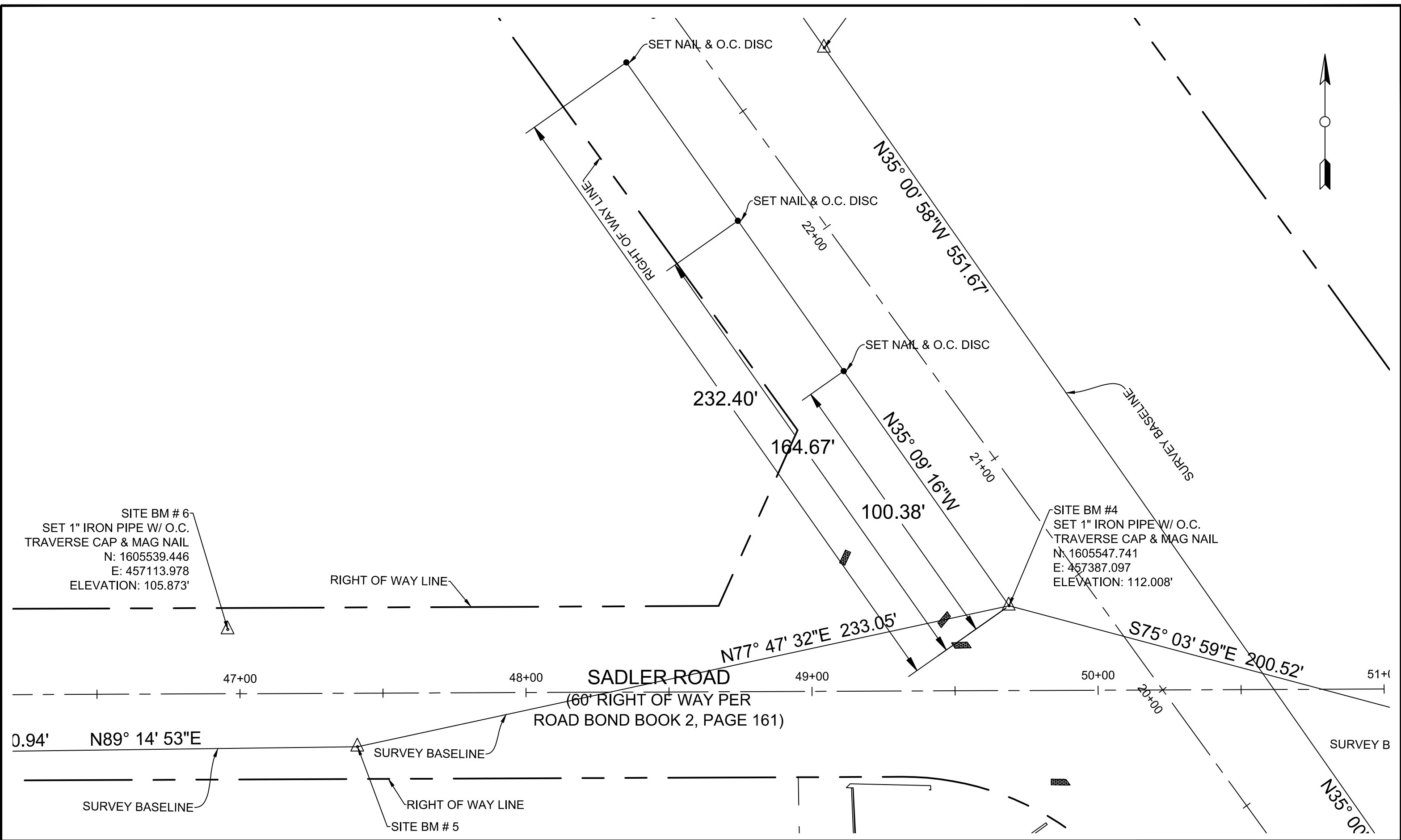
CALCULATED BY: Clark, Ron  
 SURVEYED BY: Crew # 2  
 DRAWN BY: Washington, Icie  
 APPROVED BY: Daynes, Mark

DATE: 7/20/11  
 DATE: 7/20/11  
 DATE: 5/15/17  
 DATE: 5/15/17

DRAWING SCALE:  
 1"=30'  
 PREPARED FOR:  
 ENGINEERING DESIGN

DRAWING PROJECT NUMBER:  
 1000-6780  
 SHEET 24

User Name: jmh34  
 Drawing Name: I:\2017 Projects\7988 Sadler Rd @ US 441\7988 Sadler Rd @ US 441 Intersecting.dwg  
 May 15, 2017 - 10:01am



REVISIONS		
DATE	BY	DESCRIPTION
10/24/13	ICW	CHANGED SHEET NUMBER BY REQUEST FROM JMT

**ORANGE COUNTY PUBLIC WORKS  
 ENGINEERING DIVISION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7908



**SURVEY SECTION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7940

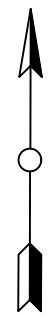
**SURVEY CONTROL SHEETS**  
 SADLER RD. & U.S. 441  
 16-20-27

CALCULATED BY: Clark, Ron  
 SURVEYED BY: Crew # 2  
 DRAWN BY: Washington, Icie  
 APPROVED BY: Daynes, Mark

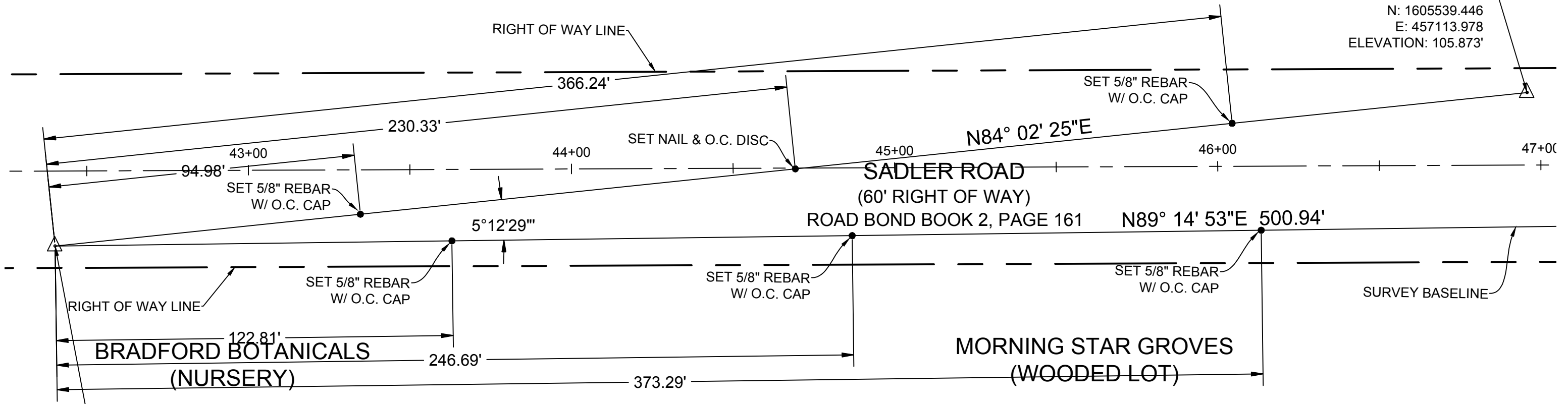
DATE: 7/20/11  
 DATE: 7/20/11  
 DATE: 5/15/17  
 DATE: 5/15/17

DRAWING SCALE:  
 1"=30'  
 PREPARED FOR:  
 ENGINEERING DESIGN

DRAWING PROJECT NUMBER:  
 1000-6780  
 SHEET 25



SITE BM # 6  
 SET 1" IRON PIPE W/ O.C.  
 TRAVERSE CAP & MAG NAIL  
 N: 1605539.446  
 E: 457113.978  
 ELEVATION: 105.873'



SITE BM # 7  
 SET 1" IRON PIPE W/ O.C.  
 TRAVERSE CAP & MAG NAIL  
 N: 1605491.887  
 E: 456658.417  
 ELEVATION: 102.98'

GAINES SUBDIVISION,  
 PLAT BOOK C, PAGE 65

User Name: jwash13  
 Drawing Name: I:\2017 Projects\7088 Sadler Rd @ US 441\7088 Sadler Rd @ US 441\7088 Sadler Rd @ US 441 Intersections.dwg  
 May 15, 2017 - 10:01am

5

REVISIONS		
DATE	BY	DESCRIPTION
10/24/13	ICW	CHANGED SHEET NUMBER BY REQUEST FROM JMT

**ORANGE COUNTY PUBLIC WORKS**  
**ENGINEERING DIVISION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7908



**SURVEY SECTION**  
 4200 SOUTH JOHN YOUNG PARKWAY  
 ORLANDO, FLORIDA 32839-9205  
 (407) 836-7940

**SURVEY CONTROL SHEETS**  
 SADLER RD. & U.S. 441  
 16-20-27

CALCULATED BY: Clark, Ron	DATE: 7/20/11
SURVEYED BY: Crew # 2	DATE: 7/20/11
DRAWN BY: Washington, Icie	DATE: 5/15/17
APPROVED BY: Daynes, Mark	DATE: 5/15/17

DRAWING SCALE:  
 1"=30'  
 DRAWING PROJECT NUMBER:  
 1000-6780  
 PREPARED FOR:  
 ENGINEERING DESIGN  
 SHEET 26

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-2		S-3																PLAN	FINAL	PLAN	FINAL			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
660-1-104	LOOP DETECTOR, INDUCTIVE (TYPE 4, ICH, SS, S, TD)	EA	0		1																		1		1		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	0		2																		2		2		
670-5-400	TRAFFIC CONTROLLER ASSEMBLY (MODIFY, NEMA)	AS	0		1																		1		1		
706-3	RETRO-REFLECTIVE PAVEMENT MARKER																										
	RPMs - YELLOW/YELLOW	EA	22		20																		42		42		
	RPMs - WHITE/RED	EA	0		17																		17		17		
710-90	PAINTED PAVEMENT MARKINGS-FINAL SURFACE	LS	-		-																		1		1		
711-11-125	THERMOPLASTIC (STANDARD) (WHITE) (SOLID) (24")	LF	0		24																		24		24		
711-11-141	THERMOPLASTIC (STANDARD) (6" WHITE, 6'-10' SKIP)	GM	0		0.016																		0.016		0.016		
711-11-170	THERMOPLASTIC (STANDARD) (ARROW)	EA	0		8																		8		8		
711-16-101	THERMOPLASTIC (STANDARD-OTHER SURFACES) (WHITE) (SOLID) (6")	GM	0.153		0.187																		0.340		0.340		
711-16-201	THERMOPLASTIC (STANDARD-OTHER SURFACES) (YELLOW) (SOLID) (6")	GM	0.153		0.149																		0.302		0.302		


\* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION. SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

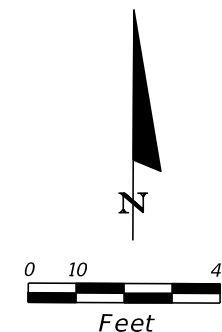
PAY ITEM NOTES

- 660-2-106 TO BE PAID UNDER PAY ITEM 603-1 INCLUDES THE COST OF LOOP LEAD-IN CABLES.
- 670-5-400 TO BE PAID UNDER PAY ITEM 603-1 INCLUDES THE COST OF MODIFYING THE CABINET FOR THE NEW LOOP DETECTOR (L3R).
- 660-1-104 TO BE PAID UNDER PAY ITEM 603-1

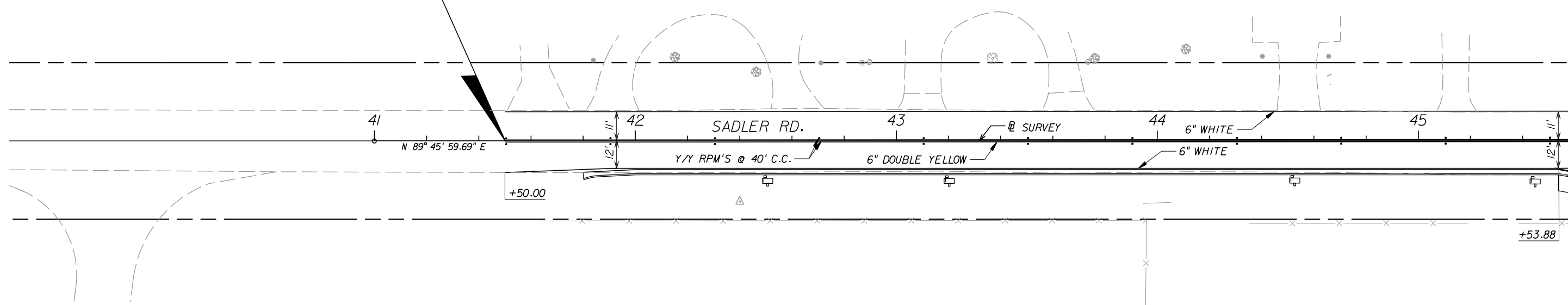
GENERAL NOTES


- ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
- MAINTAIN ALL EXISTING STREET NAME SIGNS FOR 911 PURPOSES.
- EXISTING SIGNS THAT ARE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD.
- ANY SIGNS DAMAGED DURING RELOCATION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE COUNTY.
- CAUTION SHOULD BE EXERCISED IN THE INSTALLATION OF POST MOUNTED ROADSIDE SIGNS IN ORDER TO PREVENT POSSIBLE DAMAGE TO BURIED UTILITIES.

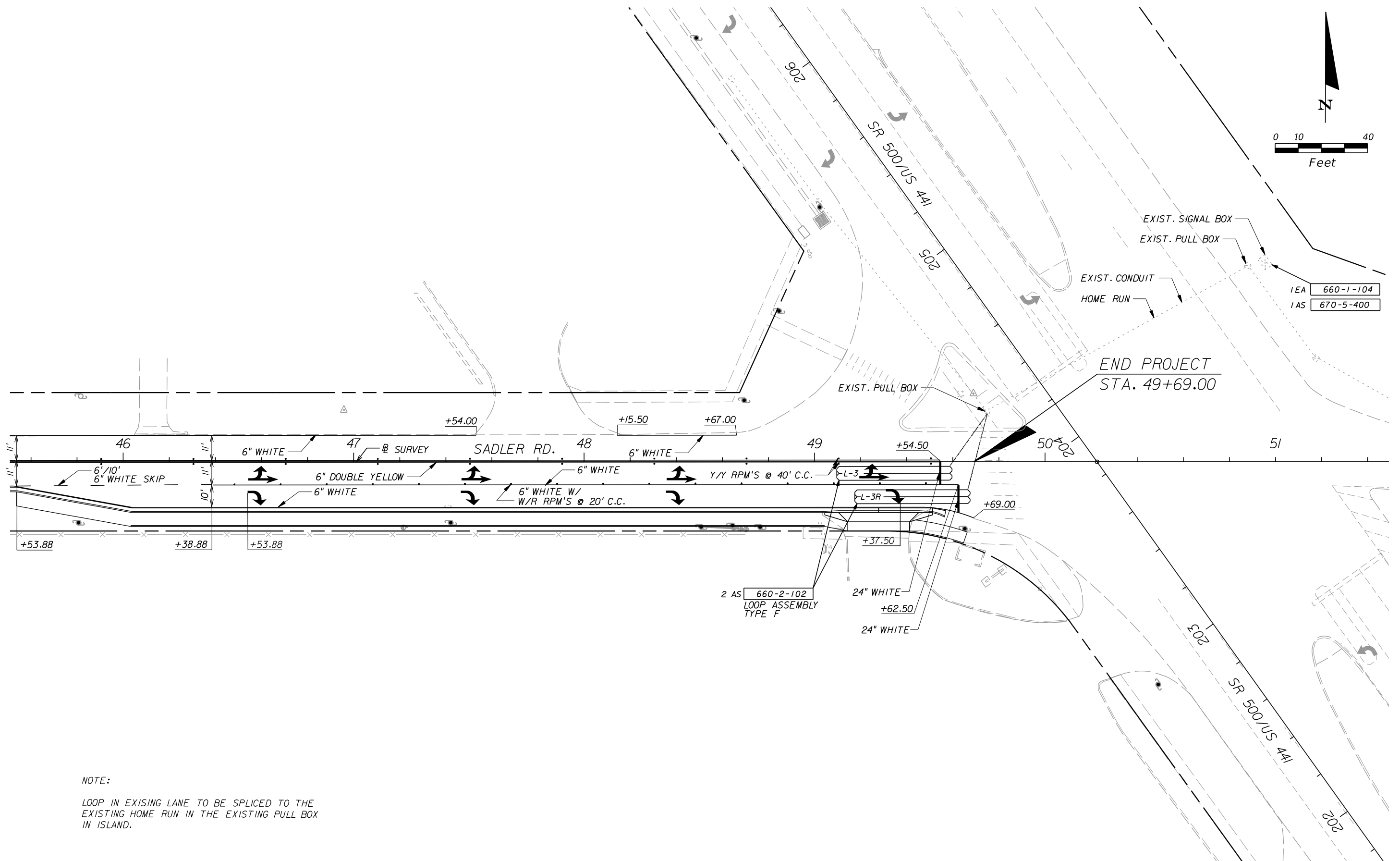
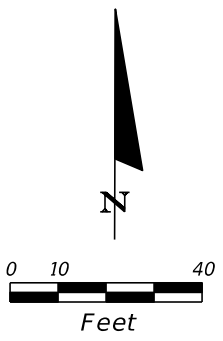
REVISIONS						GREGORY T. SMITH, P.E. (No. 39087)		ORANGE COUNTY PUBLIC WORKS DEPT. ENGINEERING DIVISION 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950				<b>TABULATION OF QUANTITIES SIGNING &amp; PAVEMENT MARKING &amp; SIGNALIZATION</b>				SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	 <b>JOHNSON, MIRMIRAN &amp; THOMPSON</b> 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917		PROJECT NAME		PROJECT NO.						SADLER RD	




BEGIN PROJECT  
STA 41+50.00



REVISIONS						GREGORY T. SMITH, P.E. (No. 39087)	 <b>JOHNSON, MIRMIRAN &amp; THOMPSON</b> 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	ORANGE COUNTY PUBLIC WORKS DEPT. ENGINEERING DIVISION 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950		<b>SIGNING &amp; PAVEMENT MARKING &amp; SIGNALIZATION</b>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT NO.		S-2
							SADLER RD	5128			



NOTE:  
 LOOP IN EXISING LANE TO BE SPLICED TO THE  
 EXISTING HOME RUN IN THE EXISTING PULL BOX  
 IN ISLAND.

REVISIONS						GREGORY T. SMITH, P.E. (No. 39087)	 <b>JOHNSON, MIRMIRAN &amp; THOMPSON</b> 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	ORANGE COUNTY PUBLIC WORKS DEPT. ENGINEERING DIVISION 4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7950		<b>SIGNING &amp; PAVEMENT MARKING &amp; SIGNALIZATION</b>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT NO.		S-3
							SADLER RD	5128			