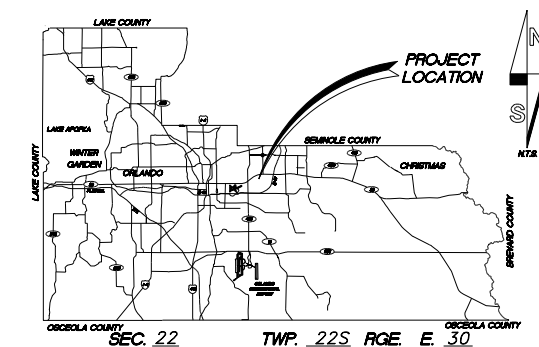




CONSTRUCTION PLANS FOR FORSYTH ROAD SIDEWALK IMPROVEMENTS

CONTRACT NO. : Y8-905B
DISTRICT NO: 5
ORANGE COUNTY, FLORIDA

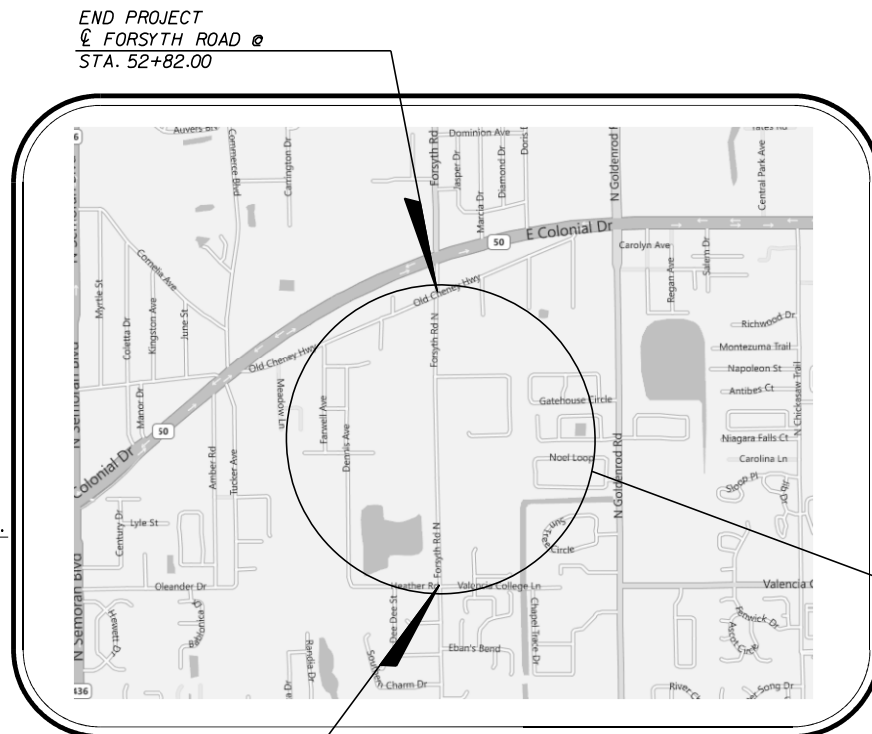


LOCATION MAP

SOURCE OF BENCHMARK DATUM

BENCHMARKS
S -1459-006: RECOVERED 3" ALUMINUM DISC ON CONCRETE CURB INLET; EAST SIDE OF FORSYTH ROAD, 165 FEET +/- NORTH OF HEATHER ROAD AND ACROSS FROM ADDRESS: 720 FORSYTH ROAD. ELEVATION = 87.976'
BENCHMARK S -1459-020 RECOVERED 3" ORANGE COUNTY ALUMINUM DISC ON CONCRETE CURB INLET; WEST SIDE OF OLD FORSYTH ROAD; 60' +/- NORTH OF POWER POLE #080742; 600 FEET +/- NORTH OF FORSYTH COMMERCE ROAD. ELEVATION = 85.63'
(CONTINUED ON GENRAL NOTES SHEET 2)
ELEVATIONS ARE DERIVED FROM ORANGE COUNTY BENCHMARKS, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

PROJECT LENGTH:	FEET	MILES
ROADWAY:	4,282	0.81
BRIDGES:	0	0
TOTAL LENGTH:	4,282	0.81



S-21, T-22, R-30 E.

S-23, T-22, R-30 E

PROJECT LOCATION

BEGIN PROJECT
FORSYTH RD. @
STA. 10+00.00

VICINITY MAP
N.T.S.

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: _____

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS FOR DESIGN, CONSTRUCTION,
MAINTENANCE AND UTILITY OPERATIONS
ON THE STATE HIGHWAY SYSTEM, DATED 2012 AND
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, DATED 2010
AS AMENDED BY CONTRACT DOCUMENTS.

TERESA JACOBS, COUNTY MAYOR

BOARD OF COUNTY
COMMISSIONERS

S. SCOTT BOYD DISTRICT 1
FREDERICK C. BRUMMER DISTRICT 2
JOHN M. MARTINEZ DISTRICT 3
JENNIFER THOMPSON DISTRICT 4
TED EDWARDS DISTRICT 5
TIFFANY MOORE RUSSELL DISTRICT 6
MARK MASSARO, P.E. PUBLIC WORKS DIRECTOR

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

LEGEND

- Ⓟ BASELINE
- CCR CERTIFIED CORNER RECORD
- CONC CONCRETE
- COR. CORNER
- E EAST/EASTING
- EL ELEVATION
- EP EDGE OF PAVEMENT
- INV INVERT (ELEVATION)
- IR(C) IRON ROD (WITH CAP)
- IRRIG IRRIGATION LINE
- LT. LEFT
- MES MITERED END SECTION
- N NORTH/NORTHING
- PC POINT OF CURVATURE
- PI POINT OF INTERSECTION
- PIP POURED-IN-PLACE
- POC POINT ON CURVE
- POT POINT ON TANGENT
- PT POINT OF TANGENCY
- PVC POLYVINYL CHLORIDE PIPE
- R RANGE
- RCP REINFORCED CONCRETE PIPE
- RT. RIGHT
- R/W RIGHT-OF-WAY
- S SOUTH
- SEC. SECTION
- STA. STATION
- T TOWNSHIP
- TEL TELEPHONE
- UTIL UTILITY
- VVH/TH TEST HOLE (UTILITY)
- W WEST
- ° DEGREES
- SHWE SEASONAL HIGH WATER EL.
- - - - - TRAFFIC MARKINGS
- - - - - ASPHALT
- - - - - ASPHALT C/L
- - - - - CURB
- - - - - BARRIER WALL
- E - - OVERHEAD POWER LINES
- SECTION LINE
- X- FENCE
- CONCRETE
- - - - - RIGHT OF WAY LINE
- BRICK WALL
- ALUMINUM HAND RAIL
- Ⓜ POWER POLES
- Ⓜ WATER VALVE
- △ STATION POINT
- Ⓜ FIRE HYDRANT
- Ⓜ PALM TREES
- Ⓜ OAK TREES
- Ⓜ HEDGES
- Ⓜ SIGNS
- MISCELLANEOUS BOXES
- Ⓜ POWER POLE WITH LAMP
- Ⓜ WATER METER
- Ⓜ BENCHMARK
- MONUMENT
- Ⓜ SANITARY SEWER
- P.P. POWER POLE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- W WETLANDS

INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4-6	TYPICAL SECTIONS
7	SIDEWALK DETAIL SHEET
8	SUMMARY OF QUANTITIES
9-10	SURVEY CONTROL SHEETS
11-19	PLAN SHEETS
20-42	CROSS SECTIONS
43	SOILS SURVEY
44	TRAFFIC CONTROL GENERAL NOTES

UTILITIES ENCOUNTERED

POWER: PROGRESS ENERGY DISTRIBUTION (PE) 800-700-8744
CATV/PHONE/FIBER : BRIGHOUSE NETWORKS 407-532-8509
CATV : COMCAST CABLE COMMUNICATIONS 352-315-8528
SEWER: CITY OF ORLANDO 407-832-7184
TMS/FIBER: QWEST COMMUNICATIONS 303-707-3675
GAS: TECO 407-420-6609
PHONE/FIBER: AT&T 407-814-5383
PHONE/FIBER: MCI 972-729-6016
TMS/FIBER: ORANGE COUNTY PUBLIC WORKS 407-836-7987
WATER: ORANGE COUNTY UTILITIES 407-254-9700
SEWER: ORANGE COUNTY UTILITIES 407-254-9700
WATER: ORLANDO UTILITIES COMMISSION 407-244-8736
POWER: ORLANDO UTILITIES COMMISSION 407-423-9100

PREPARED BY:



201 N. MAGNOLIA AVENUE - SUITE 200 - ORLANDO FL. 32801
PHONE (407) 839-4300 FAX (407) 839-1621

REVISIONS DATE BY

REVISIONS	DATE	BY

DESIGNED BY: TWV DATE: 2/21/2012
DRAWN BY: PMR DATE: 2/21/2012
CHECKED BY: GLW DATE: 2/21/2012
APPROVED BY: DCB DATE: 2/21/2012
CONTRACT NO: Y8-905B

SHEET 1
OF 44

GENERAL NOTES



EROSION AND SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
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 LIMITS OF CONSTRUCTION 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. DESIGN STANDARD 532. 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. PAYMENT WILL BE INCLUDED IN ITEM NO. 110-1-1, "CLEARING AND GRUBBING (LS)".
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 INDEX No. 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 THERETO 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 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 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. ALL PIPE JOINTS IN THIS PROJECT SHALL BE WRAPPED PER FDOT STANDARD INDEX No. 280 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 IF ABANDONED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED, 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 407-836-7940 AND BOTH SHALL NOTIFY:
STATE GEODETIC ADVISOR
3900 COMMONWEALTH BOULEVARD, SUITE 309,
TALLAHASSEE, FL
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 407-836-7940. 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 INDEX 304 NOMENCLATURE SHOWN IN THE PLANS REFERS TO THE RAMP TYPES IDENTIFIED IN INDEX 304.
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. DAMAGE 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 OF 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 THAT THE CONDITION EXISTING. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
37. EXISTING RIGHT OF WAY IS BASED ON FIELD MONUMENTATION.

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 TECO PEOPLES GAS. Therefore, excavators are instructed to telephone us at 407-420-6609 two working days before digging in a construction area.

SOURCE OF BENCHMARK DATUM



- BENCHMARKS (CONTINUED FROM SHEET 1)**
- BENCHMARK S - 1459-008 RECOVERED 3" ORANGE COUNTY SURVEY MARK DISC ON CONCRETE CURB INLET; WEST SIDE OF FORSYTH ROAD; 40 FEET +/- NORTH NORTH EAST OF POWER POLE #080730.
ELEVATION = 86.83'
- BENCHMARK S - 1459-010 RECOVERED 3" ORANGE COUNTY SURVEY MARK DISC IN CENTERLINE OF CONCRETE DRIVEWAY TO ORANGE COUNTY RETENTION POND; 4 FEET +/- EAST OF WEST EDGE OF CONCRETE DRIVEWAY; WEST SIDE OF FORSYTH ROAD.
ELEVATION = 86.77'
- BENCHMARK S - 1459-012 RECOVERED 3" ORANGE COUNTY SURVEY MARK DISC ON TOP OF CONCRETE CURB INLET; EAST SIDE OF FORSYTH ROAD BETWEEN POWER POLE #080734 AND 080735.
ELEVATION = 86.78'
- BENCHMARK S - 1459-014 RECOVERED 3" ORANGE COUNTY SURVEY MARK DISC IN CENTERLINE OF CONCRETE HEADWALL WITH 36" R.C.P.; WEST SIDE OF FORSYTH ROAD AND 50 FEET +/- SOUTH SOUTH EAST OF POWER POLE #080738.
ELEVATION = 86.01'
- BENCHMARK S - 1459-016 RECOVERED 3" ORANGE COUNTY SURVEY MARK DISC IN CENTERLINE OF 5 FEET CONCRETE SIDEWALK; ON NORTH EAST CORNER OF FORSYTH ROAD AND FORSYTH COMMERCE ROAD; 65 FEET +/- EAST OF CENTERLINE OF FORSYTH ROAD.
ELEVATION = 87.28'
- ELEVATIONS ARE DERIVED FROM ORANGE COUNTY BENCHMARKS, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

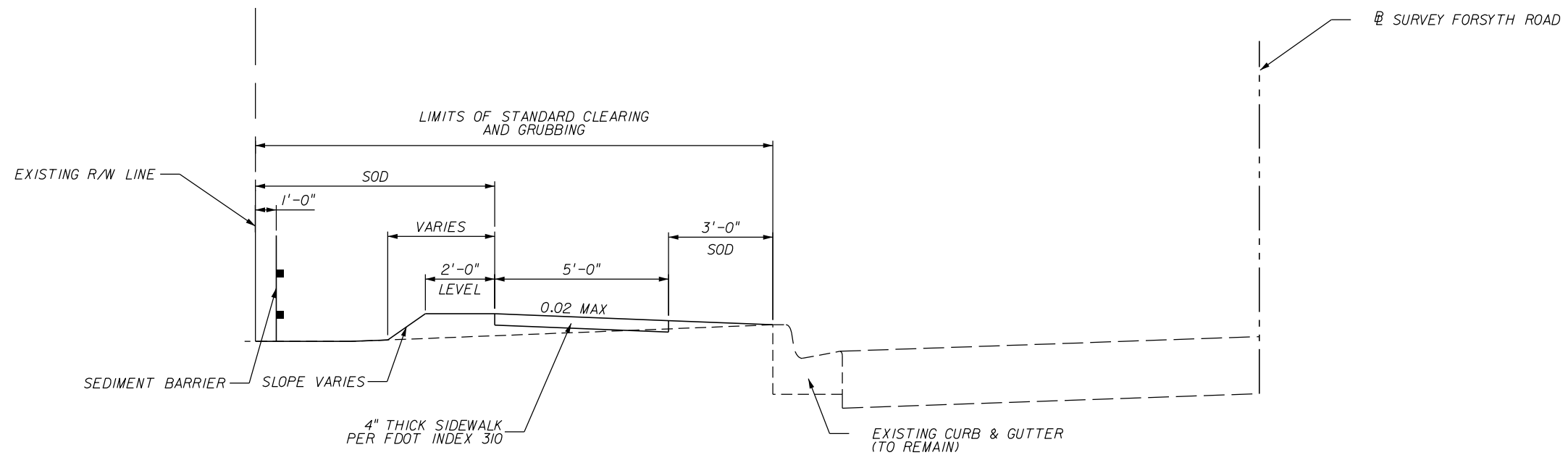
REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898	 201 N. Magnolia Ave. Suite 200 Orlando, FL 32801 Phone 407.839.4300 Fax 407.839.1621	 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	SHEET NO. 2
DATE	DESCRIPTION	DATE	DESCRIPTION				

PAY ITEM NO.	ITEM DESCRIPTION	UNITS	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 & GRUBBING	LS	1
120-1	EXCAVATION, EMBANKMENT, AND GRADING	LS	1
120-4	SUBSOIL EXCAVATION (CONTINGENCY)	CY	75
400-0-11	CLASS NS CONCRETE (GRAVITY WALL)	CY	67.8
400-1-11	CLASS I CONCRETE RETAINING WALL (INCLUDES REINF. STEEL)	CY	13.6
425-5	MANHOLE, ADJUST	EA	2
430-94-1	DESILT PIPE (24" PIPE)	LF	45
515-1-1	PIPE HANDRAIL - GUIDERAIL (STEEL GALVANIZED)	LF	353
520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	290
522-1	CONCRETE SIDEWALK, 4" THICK	SY	2,644
522-2	CONCRETE SIDEWALK, 6" THICK	SY	128
527-1	DETECTABLE WARNING ON EXISTING WALKING SURFACE	EA	2
530-3-3	RIPRAP-RUBBLE	TN	10.7
570-1-2	PERFORAMNCE TURF (SOD)	SY	4,139
700-20-40	SINGLE POST SIGN (RELOCATE)	AS	9
711-11-123	THERMOPLASTIC PAVEMENT MARKINGS (12") (WHITE)	LF	230
711-11-125	THERMOPLASTIC PAVEMENT MARKINGS (24") (WHITE)	LF	166
711-17	THERMOPLASTIC PAVEMENT MARKINGS (REMOVAL)	SF	38
900-1	AS-BUILTS	LS	1
900-2	INDEMNIFICATION	LS	1
900-3	GROUNDWATER- TREATMENT & DISPOSAL (CONTINGENCY)	ED	20

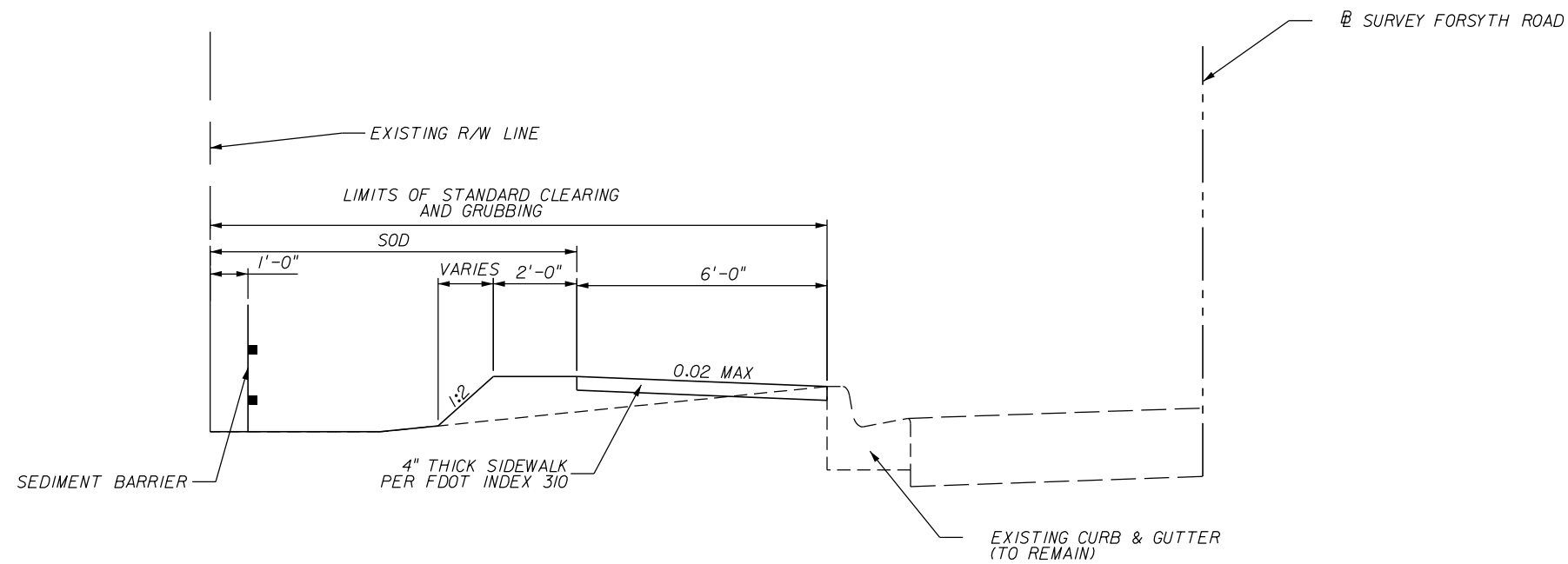
PAY ITEMS NOTES

- 102-1 INCLUDES THE COST OF ALL ITEMS NECESSARY FOR TRAFFIC CONTROL THAT ARE NOT SPECIFICALLY INCLUDED IN THE ROADWAY SUMMARY OF PAY ITEMS, I.E. SIGNS, BARRICADES, FLAGMAN, ETC. IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS AND PROCEDURES, MUTCD & DESIGN STANDARD 600 SERIES. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES.
- 110-1-1 REMOVAL OF EXISTING CONCRETE, ASPHALT PAVEMENT, AND RIP RAP TO BE INCLUDED IN CLEARING AND GRUBBING.
- 400-1-11 INCLUDES THE COST OF REINFORING STEEL, JOINTS, AND SEALS.
- 522-2 INCLUDES THE COST OF SUBGRADE

REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898 201 N. Magnolia Ave. Suite 200 Orlando, FL 32801 Phone 407.839.4300 Fax 407.839.1621 Design & Engineering	 WBQ <small>Design & Engineering</small> CERTIFICATE OF AUTHORIZATION NO. 6796	 ORANGE COUNTY <small>GOVERNMENT</small> FLORIDA	ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						3



TYPICAL SECTION NO. 1
 FORSYTH ROAD
 STA. 10+33 TO STA. 22+53



TYPICAL SECTION NO. 2
 FORSYTH ROAD
 STA. 24+92 TO STA. 25+19
 STA. 25+24 TO STA. 29+95

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
 201 N. Magnolia Ave.
 Suite 200
 Orlando, FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
WBQ
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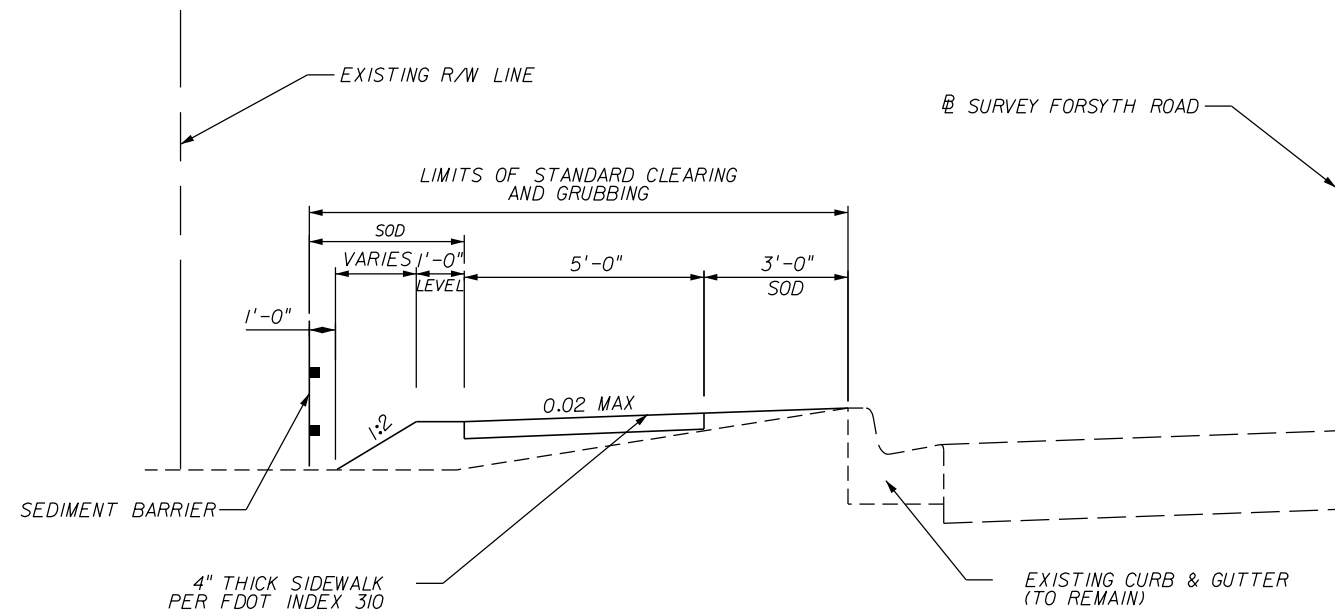


ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

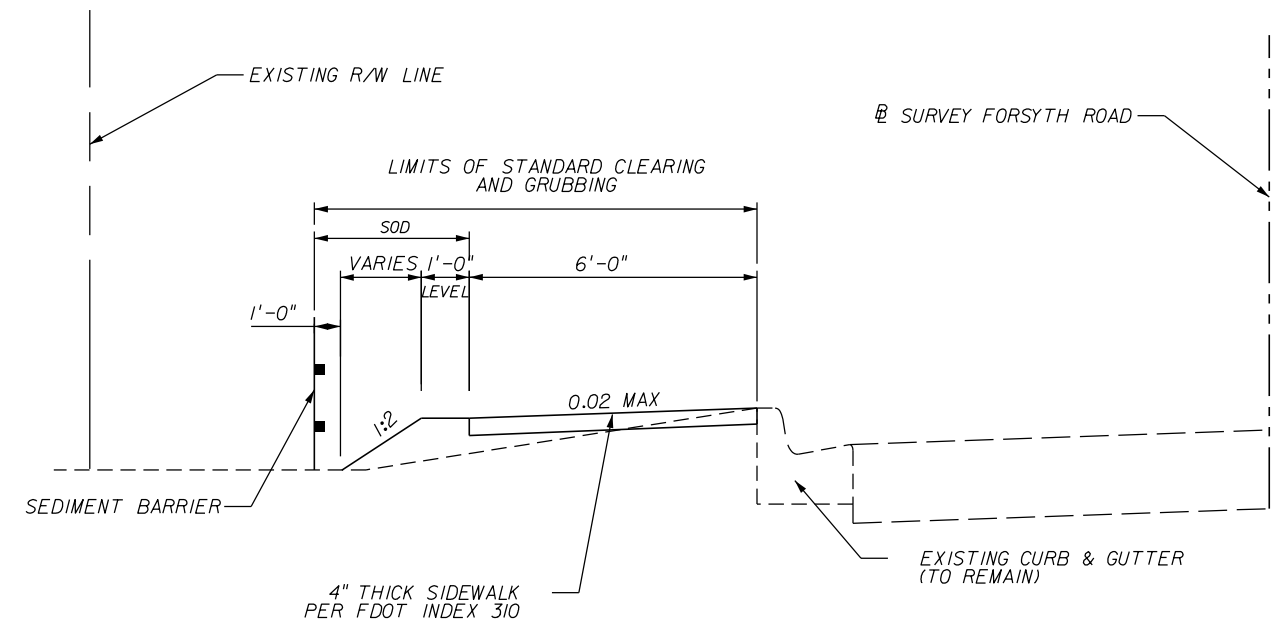
TYPICAL SECTIONS

SHEET NO.

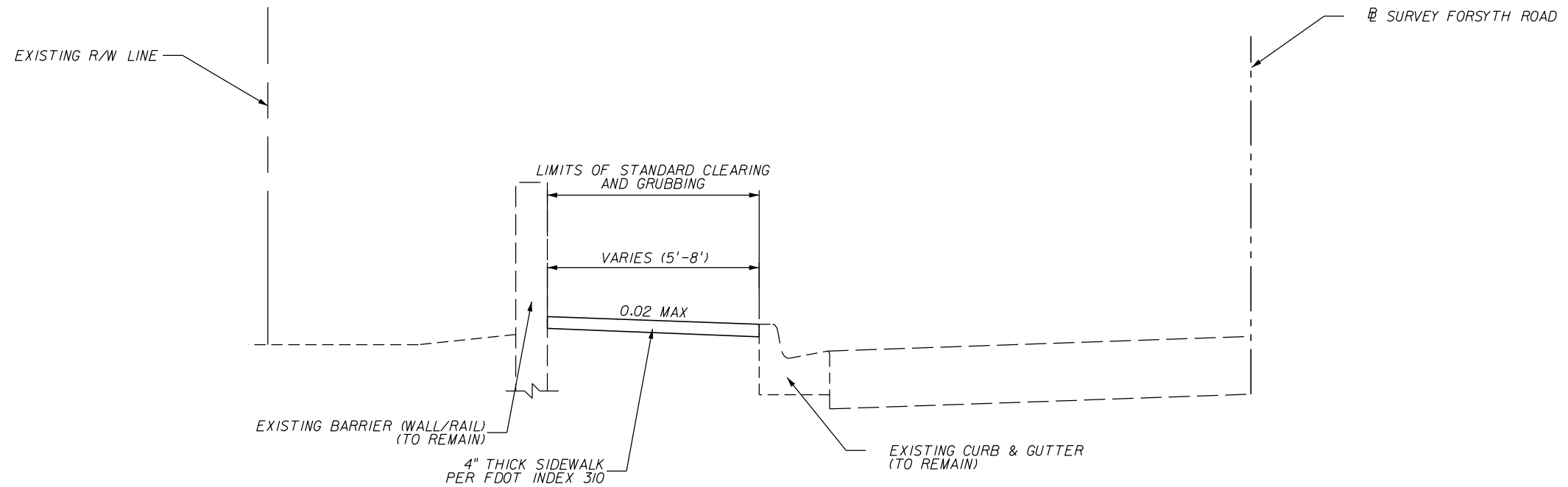
4



TYPICAL SECTION NO. 3
FORSYTH ROAD
STA. 30+93 TO STA. 38+62



TYPICAL SECTION NO. 4
FORSYTH ROAD
STA. 38+62 TO STA. 44+50
STA. 45+50 TO STA. 52+49



TYPICAL SECTION NO. 5
FORSYTH ROAD
STA. 29+95 TO STA. 30+05
STA. 30+43 TO STA. 30+69
STA. 52+49 TO STA. 52+82

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
 201 N. Magnolia Ave.
 Suite 200
 Orlando, FL 32801
 Phone 407.839.4300
 Design & Engineering Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

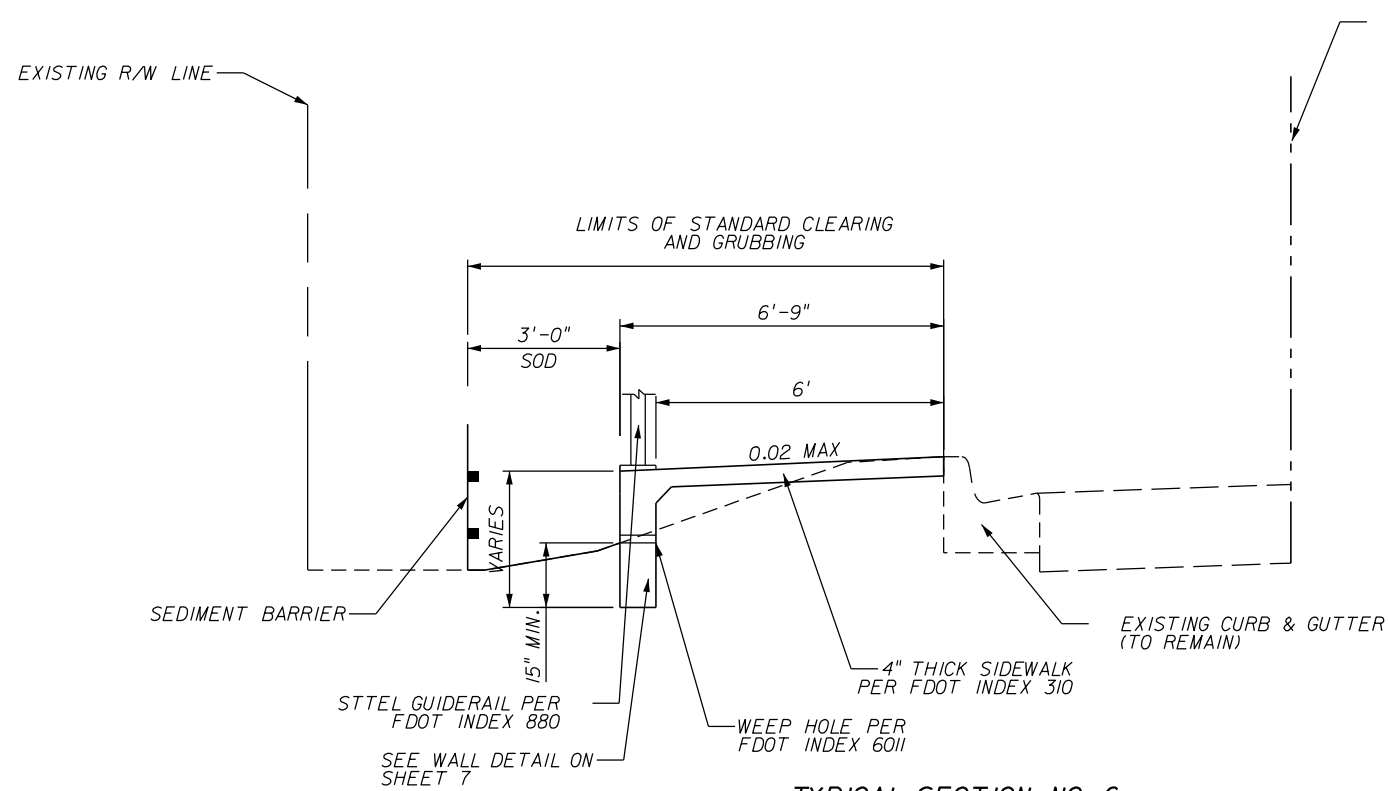


ORANGE COUNTY
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 ORLANDO, FLORIDA 32839
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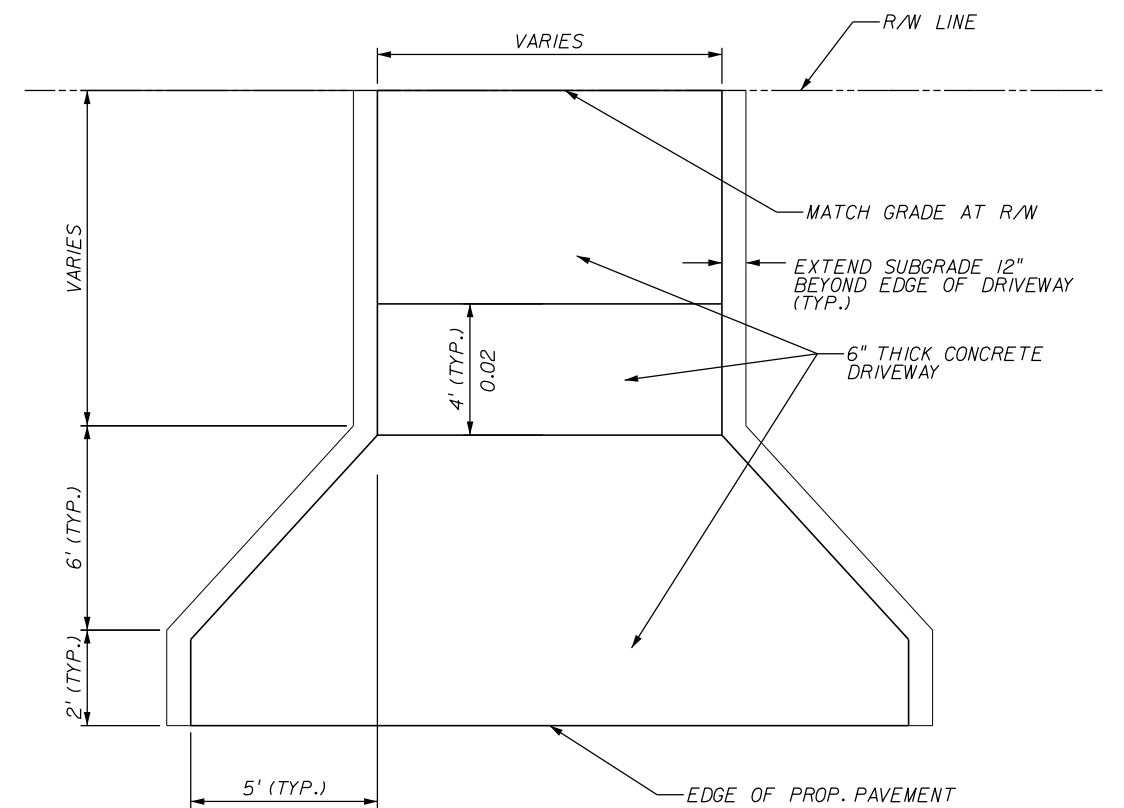
TYPICAL SECTIONS

SHEET NO.

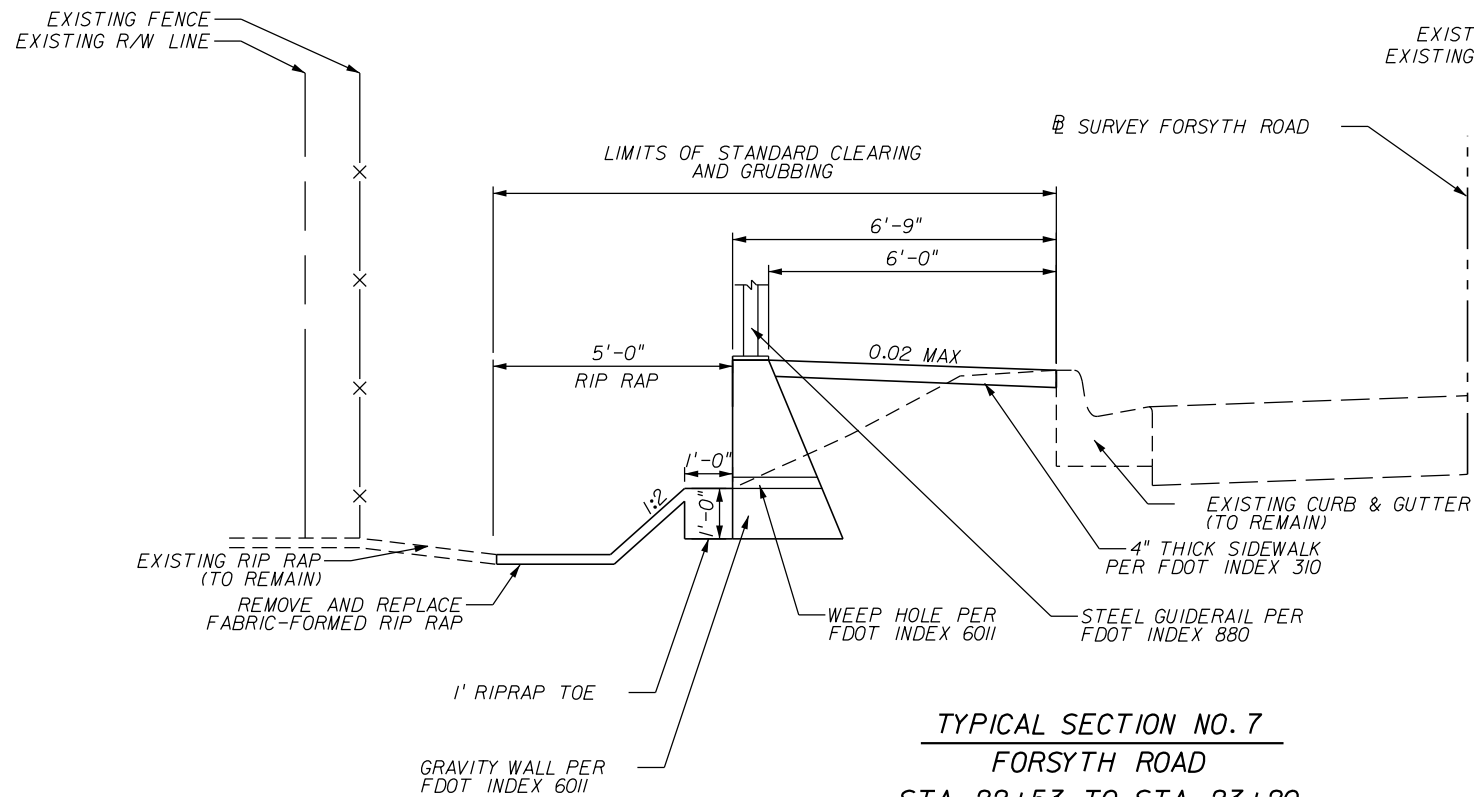
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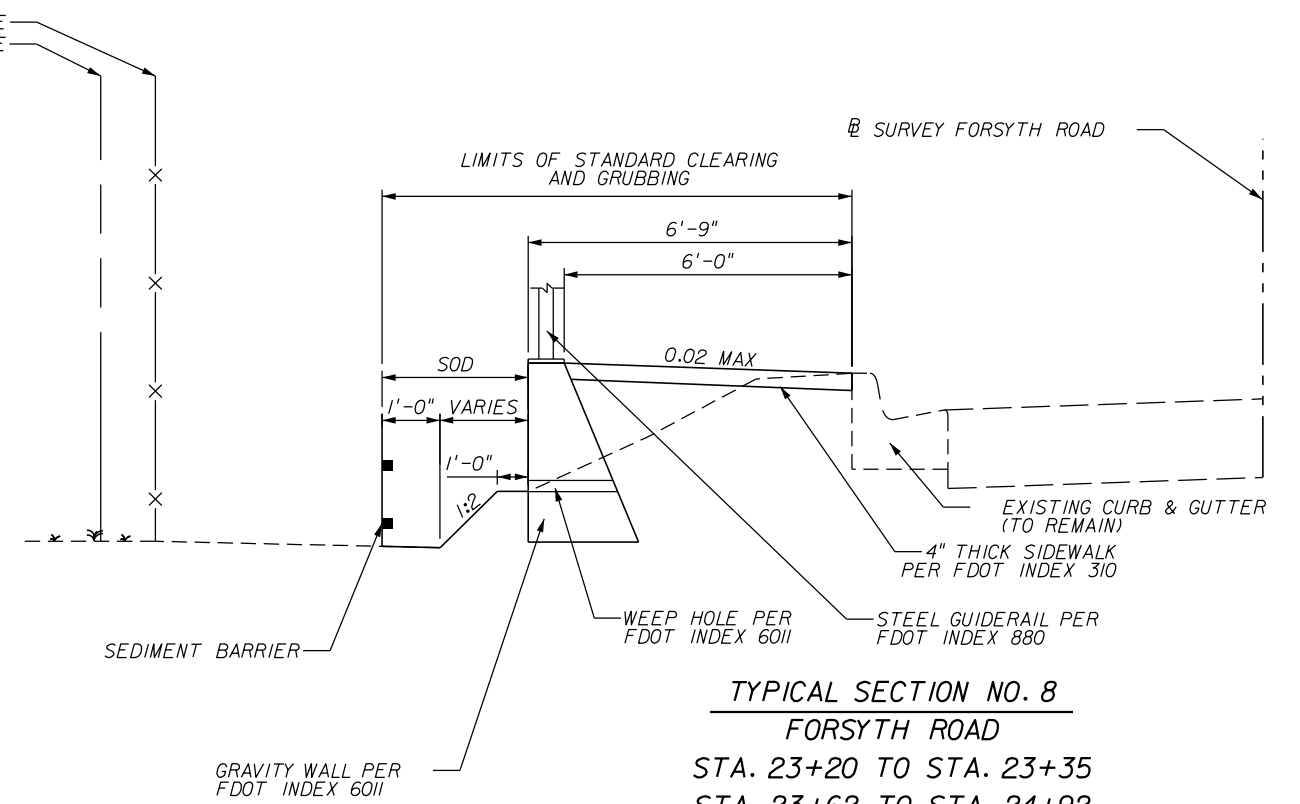
TYPICAL SECTION NO. 6
FORSYTH ROAD
 STA. 44+50 TO STA. 45+50
 STA. 52+20 TO STA. 52+55



TYPICAL DRIVEWAY APRON



TYPICAL SECTION NO. 7
FORSYTH ROAD
 STA. 22+53 TO STA. 23+20



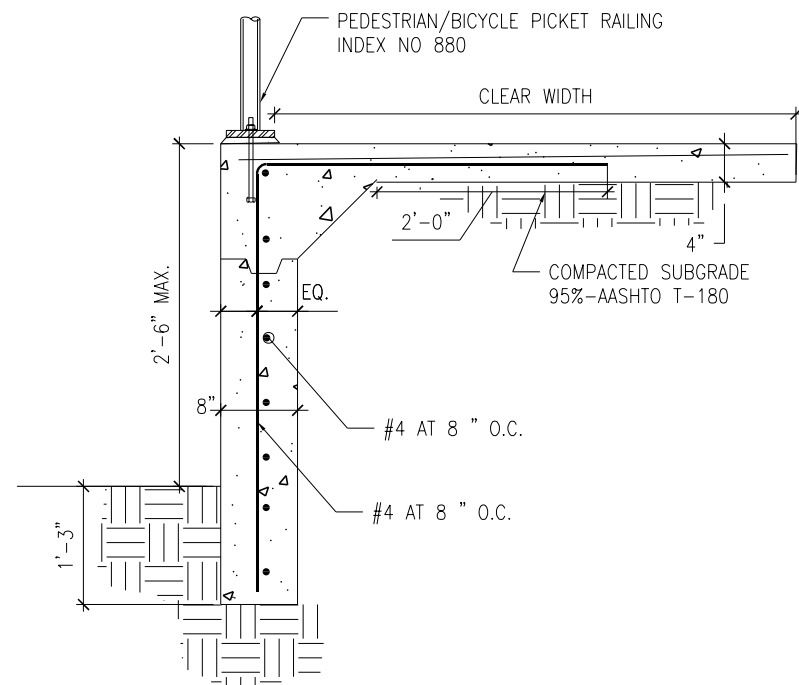
TYPICAL SECTION NO. 8
FORSYTH ROAD
 STA. 23+20 TO STA. 23+35
 STA. 23+62 TO STA. 24+92

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 201 N. Magnolia Ave. Suite 200
 Orlando, FL 32801
 Phone 407.839.4300
 Design & Engineering Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

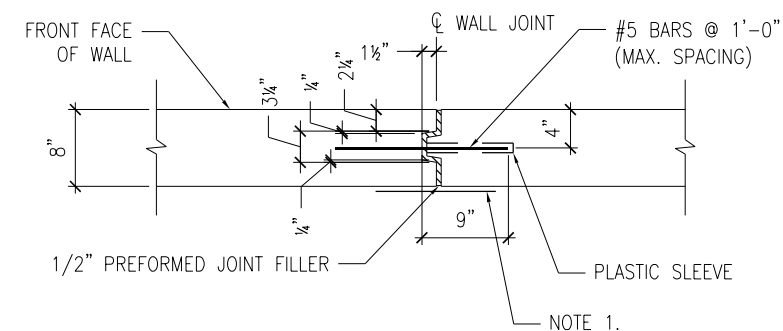
ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

TYPICAL SECTIONS



- NOTES:
1. CONCRETE:
 - a. 28 DAY COMPRESSIVE STRENGTH (f'_c) = 3000 PSI
 - b. CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
 - c. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II. ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
 2. REINFORCEMENT:
 - a. ALL REINFORCEMENT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - b. ALL REINFORCING, UNO: ASTM A615 GRADE 60
 - c. WELDED WIRE REINFORCEMENT (WWR): DEFORMED WIRE: ASTM A 497 (70 KSI)
 3. BRACE THE VERTICAL LEG (SLAB TURN DOWN) UNTIL THE SIDEWALK SLAB HAS GAINED DESIGN STRENGTH.
 4. SIDEWALK SLOPE PER CIVIL DRAWINGS.
 5. REFER TO INDEX NO: 310 FOR SLAB JOINT AND OTHER DETAILS.
 6. PROVIDE 2" COVER TO REINFORCEMENT AT EXPANSION JOINTS
 7. JOINTS IN SLAB TURN DOWN SHALL MATCH SLAB JOINTS. PROVIDE 1'-0" WIDE GEOTECH FABRIC (TYPE D-5 INDEX NO 199) AT SLAB TURN DOWN AND SLAB EXPANSION JOINT.

SIDEWALK WITH RETAINING WALL DETAIL



- NOTES:
1. GEOTEXTILE FABRIC, 1'-0" WIDE AND FULL HEIGHT OF FILL, MEETING REQUIREMENTS OF FDOT SPECIFICATION 985 AND TYPE D-5 OF INDEX NO. 199. APPLY AN ADHESIVE APPROVED BY THE ENGINEER TO THE BACK OF WALL FOR ATTACHMENT OF FABRIC MATERIAL.

EXPANSION JOINT DETAIL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BASE CONSULTANTS, P.A.
 Structural Engineers + Parking Consultants
 CERTIFICATE OF AUTHORIZATION No. 27343
 SABAIA ALATH, P.E. No63305

4767 NEW BROAD STREET
 SUITE 1018
 ORLANDO, FLORIDA 32814
 P: 407.442.2697
 F: 407.454.7135

ORANGE COUNTY GOVERNMENT
 FLORIDA

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SIDEWALK WITH RETAINING WALL DETAIL

SHEET NO.

7

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
REGULAR EXCAVATION	127	
SUBSOIL EXCAVATION	75	
EMBANKMENT	356	

SUMMARY OF DESILTING			
STA. TO STA.	LF		REMARKS
	P	F	
23+26 TO 23+71	45		24" RCP PIPE
TOTAL	45		


SUMMARY OF PERFORMANCE TURF-SOD								
LOCATION STA. TO STA.	SIDE	P			F			FIELD BOOK REFERENCE
		W	L	SY	L	W	SY	
10+64 to 11+39	LT	12	75	100				
10+68 to 11+35	LT	3	67	23				
11+49 to 11+53	LT	12	4	6				
11+53 to 11+89	LT	3	36	12				
12+03 to 13+29	LT	12	126	168				
12+09 to 13+24	LT	3	115	39				
13+41 to 22+56	LT	12	915	1220				
13+45 to 22+43	LT	3	898	300				
23+19 to 23+35	LT	12	16	21				
23+58 to 29+91	LT	12	633	844				
30+93 to 44+50	LT	7	1357	1055				
44+50 to 45+50	LT	3	100	33				
45+50 to 52+64	LT	4	714	318				
TOTAL:				4139				

SUMMARY OF SIGN RELOCATION			
STATION	AS		REMARKS
	P	F	
13+04	1		RELOCATE SIGN
27+75	1		RELOCATE SIGN
28+81	1		RELOCATE SIGN
29+96	1		RELOCATE SIGN
31+05	1		RELOCATE SIGN
34+54	1		RELOCATE SIGN
41+65	1		RELOCATE SIGN
51+71	1		RELOCATE SIGN
52+02	1		RELOCATE SIGN
TOTAL	9		

SUMMARY OF PAVEMENT MARKINGS (THERMOPLASTIC)			
STATION	LF/SF		REMARKS
	P	F	
10+50	61 LF		12" WHITE
30+21	111 LF		12" WHITE
52+66	58 LF		12" WHITE
TOTAL 12" WHITE	230 LF		12" WHITE
10+50	35 LF		24" WHITE
30+20	88 LF		24" WHITE
52+58	12 LF		24" WHITE
52+65	31 LF		24" WHITE
TOTAL 24" WHITE	166 LF		24" WHITE
52+67	14 SF		REMOVE 6" YELLOW
52+72	24 SF		REMOVE 24" WHITE
TOTAL MARKING REMOVAL	38 SF		MARKING REMOVAL

SUMMARY OF DRAINAGE STRUCTURES			
STATION/OFFSET	EA		REMARKS
	P	F	
STA. 51+94 / 17.53' LT	1		ADJUST MANHOLE
STA. 52+63 / 19.89' RT	1		ADJUST MANHOLE
TOTAL	2		

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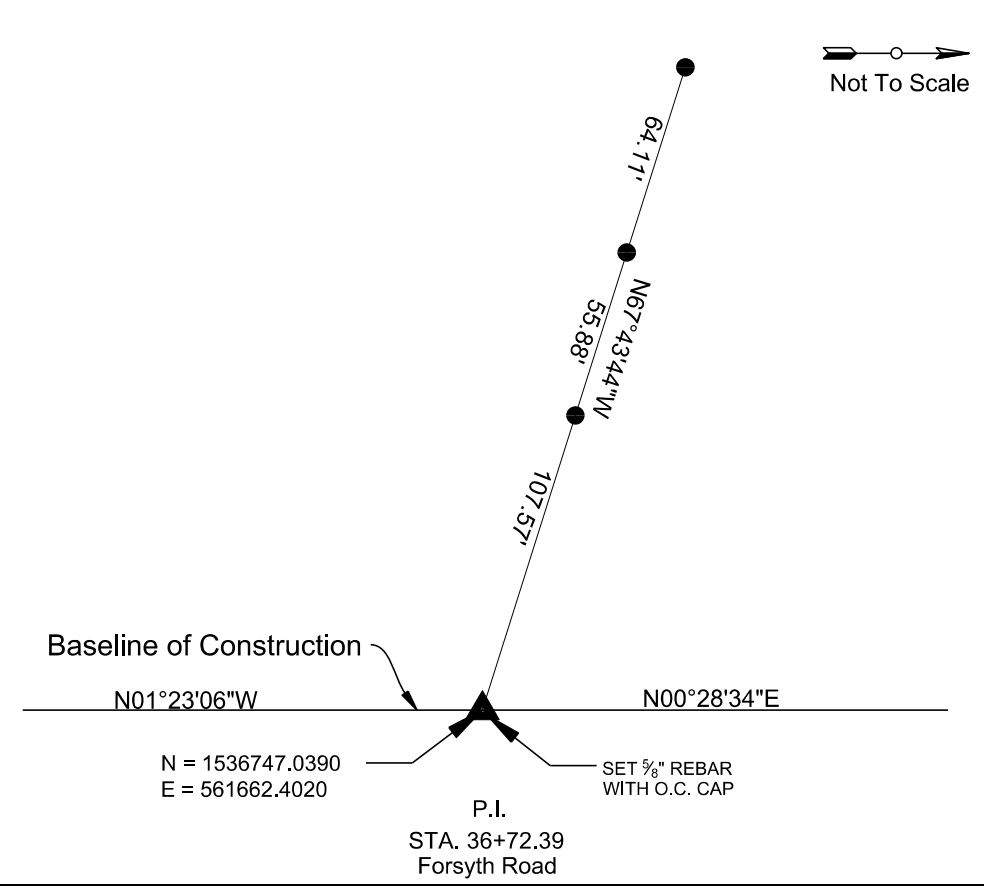
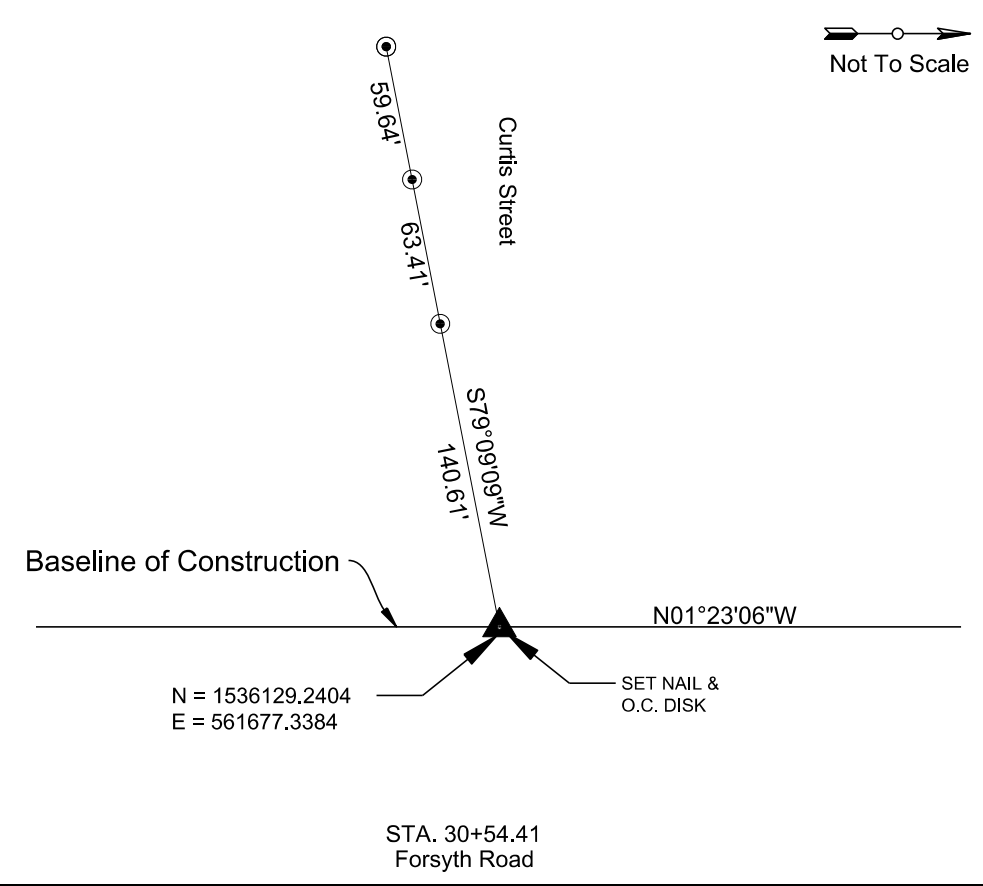
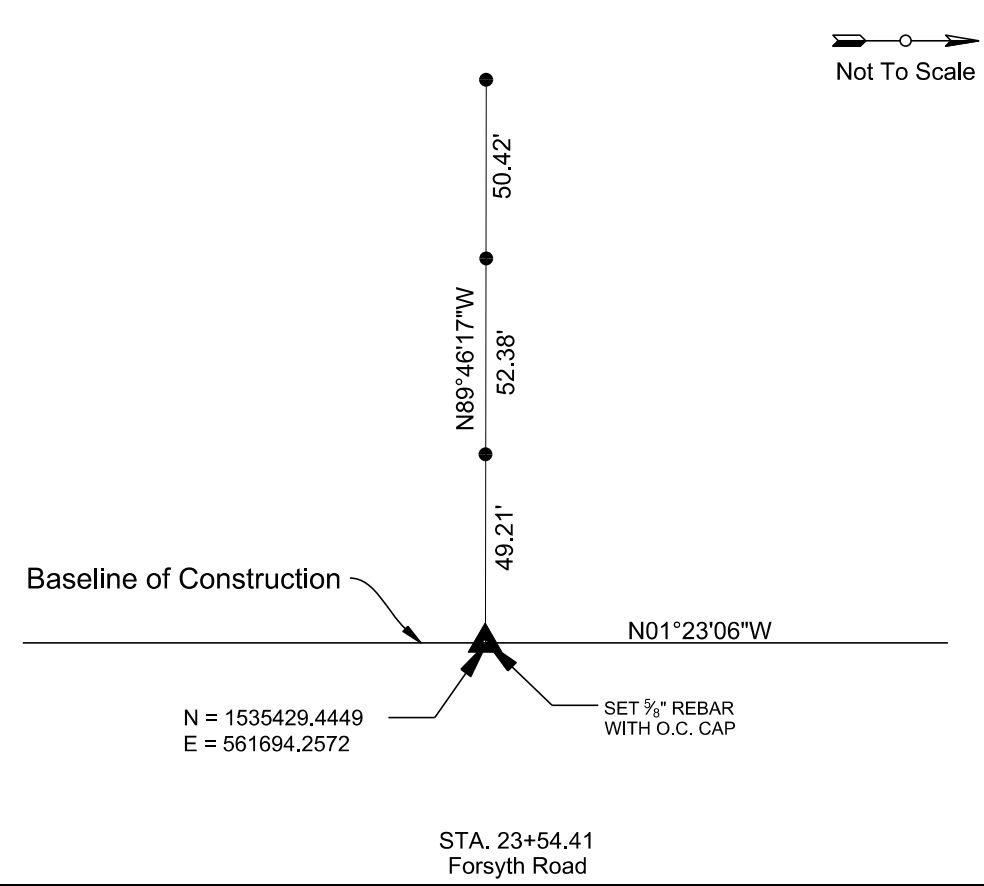
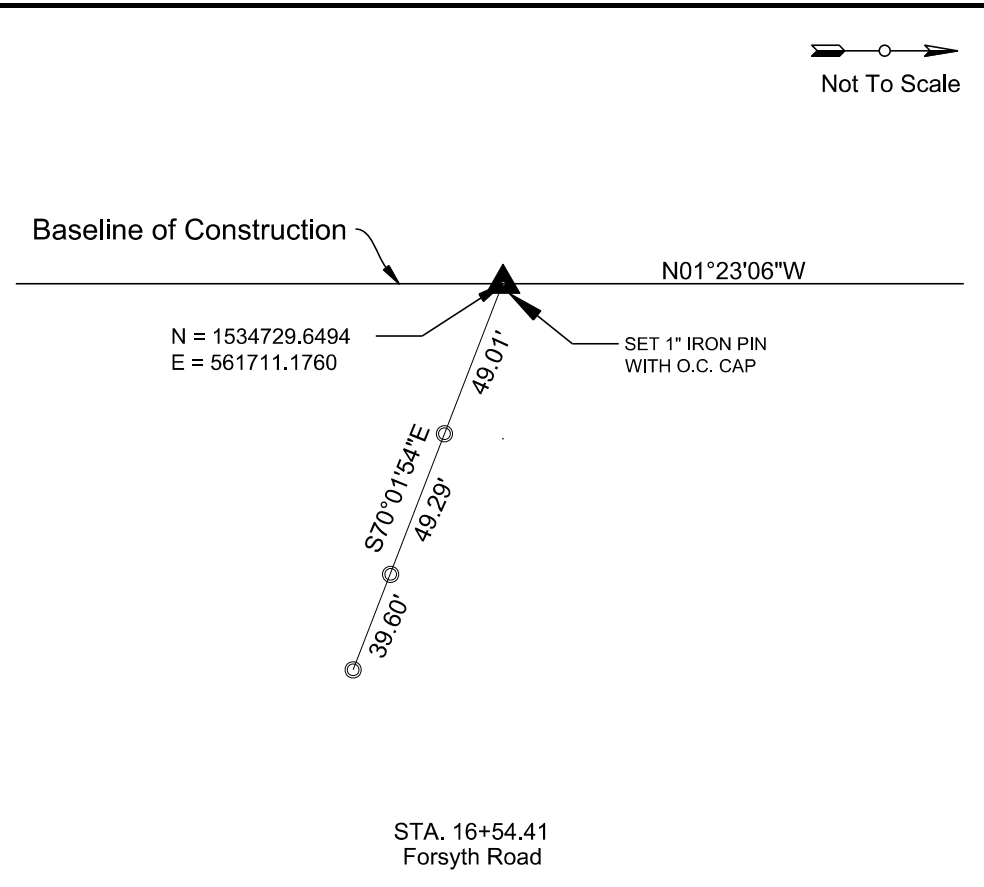
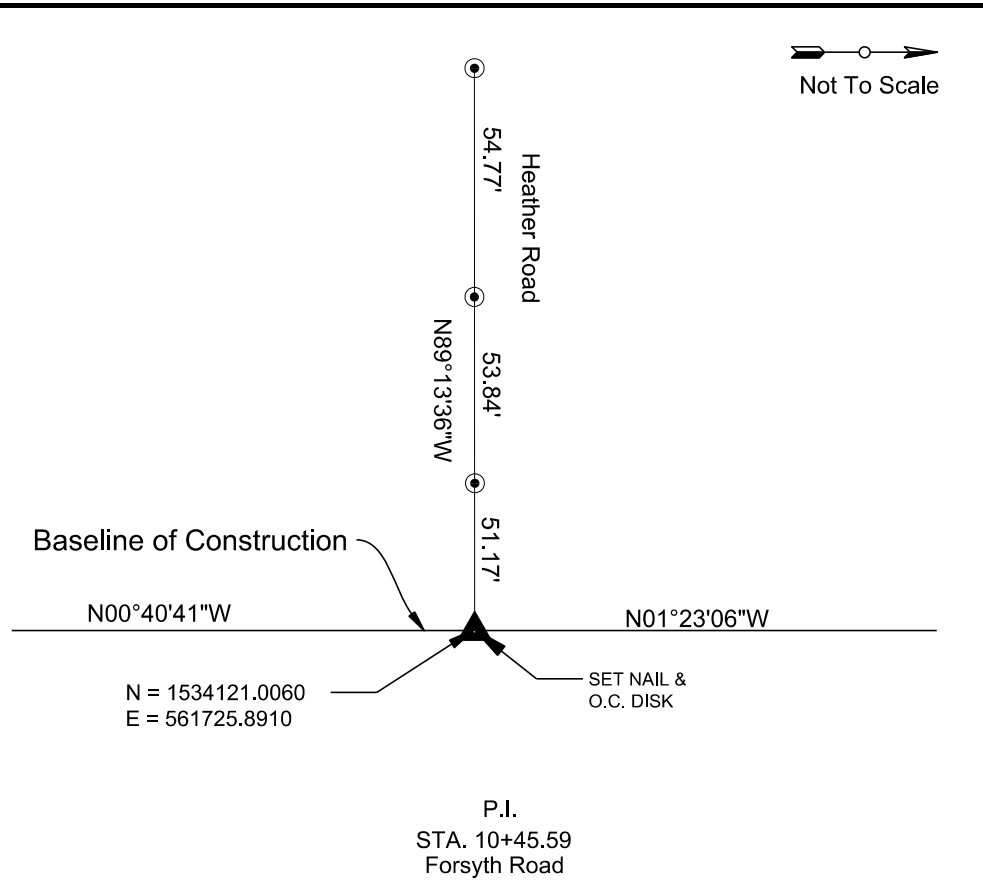
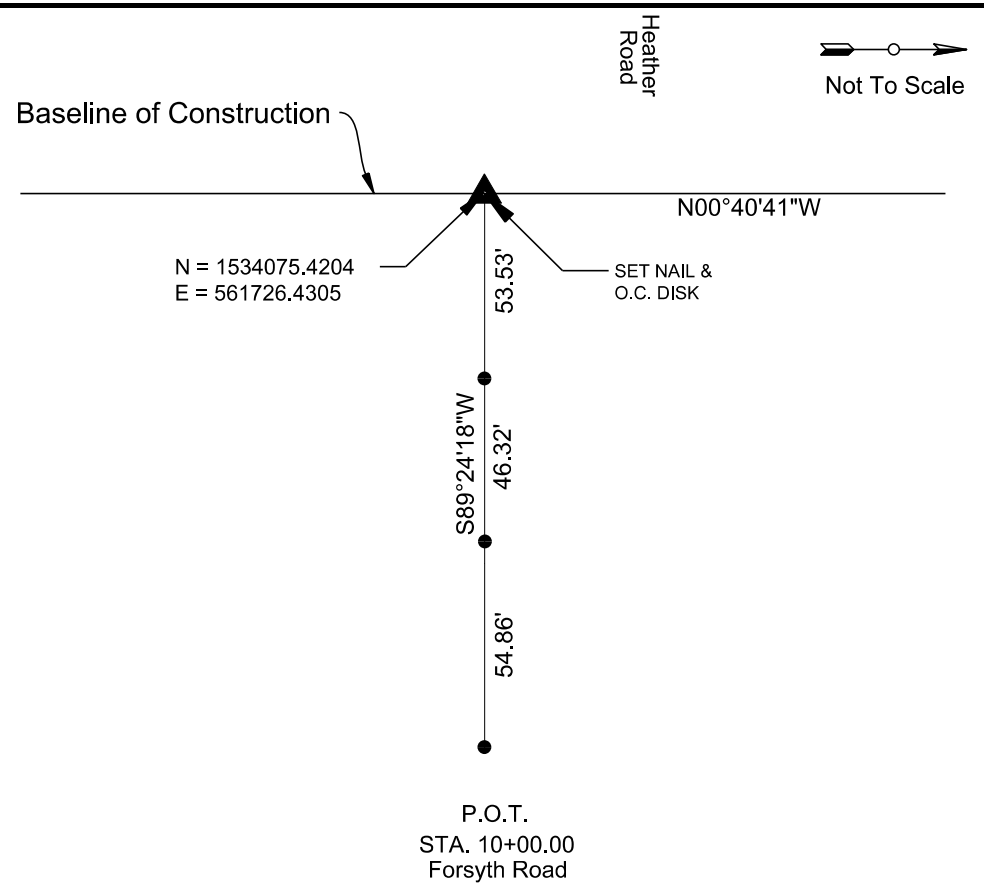


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SUMMARY OF QUANTITIES

SHEET NO.

8



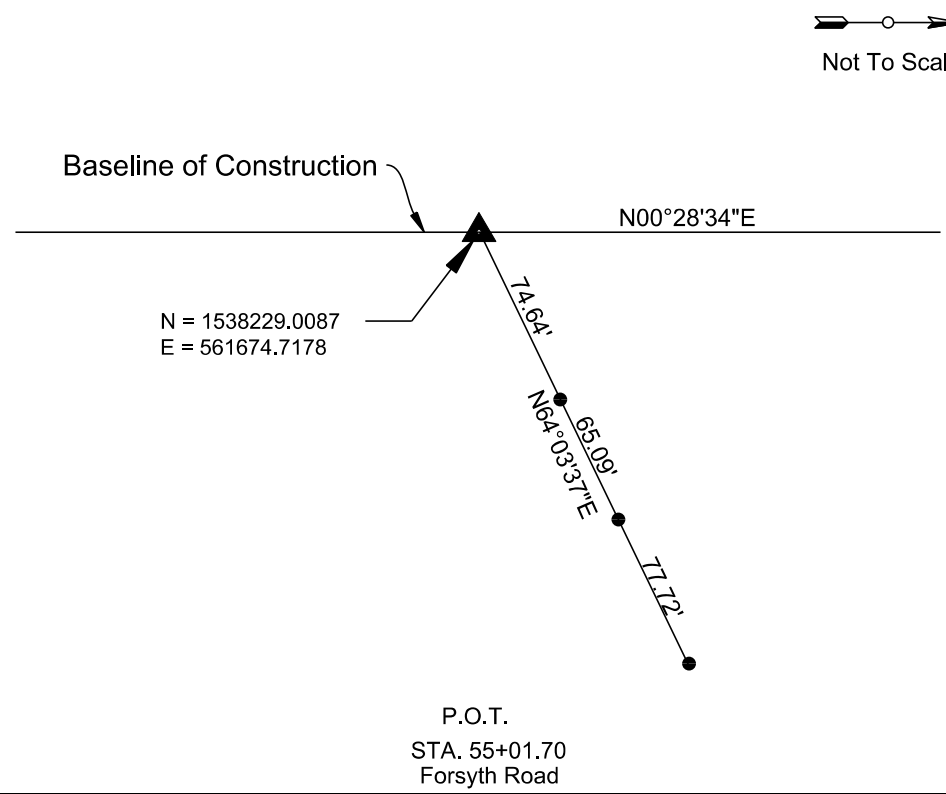
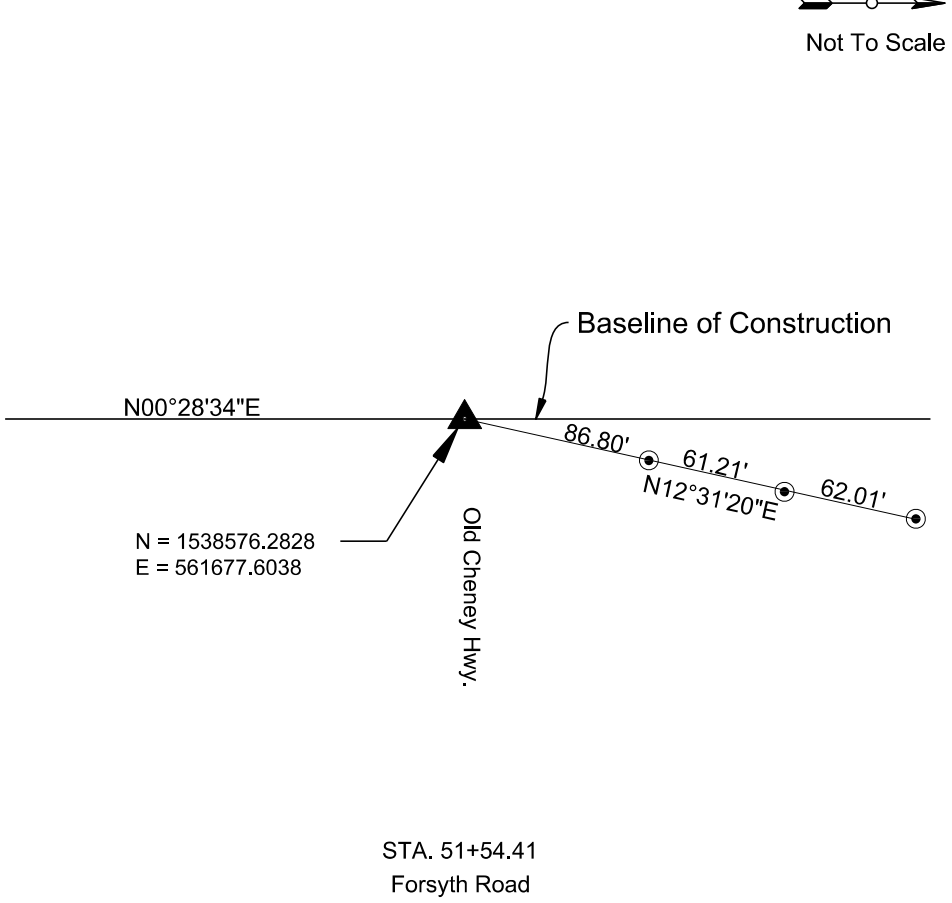
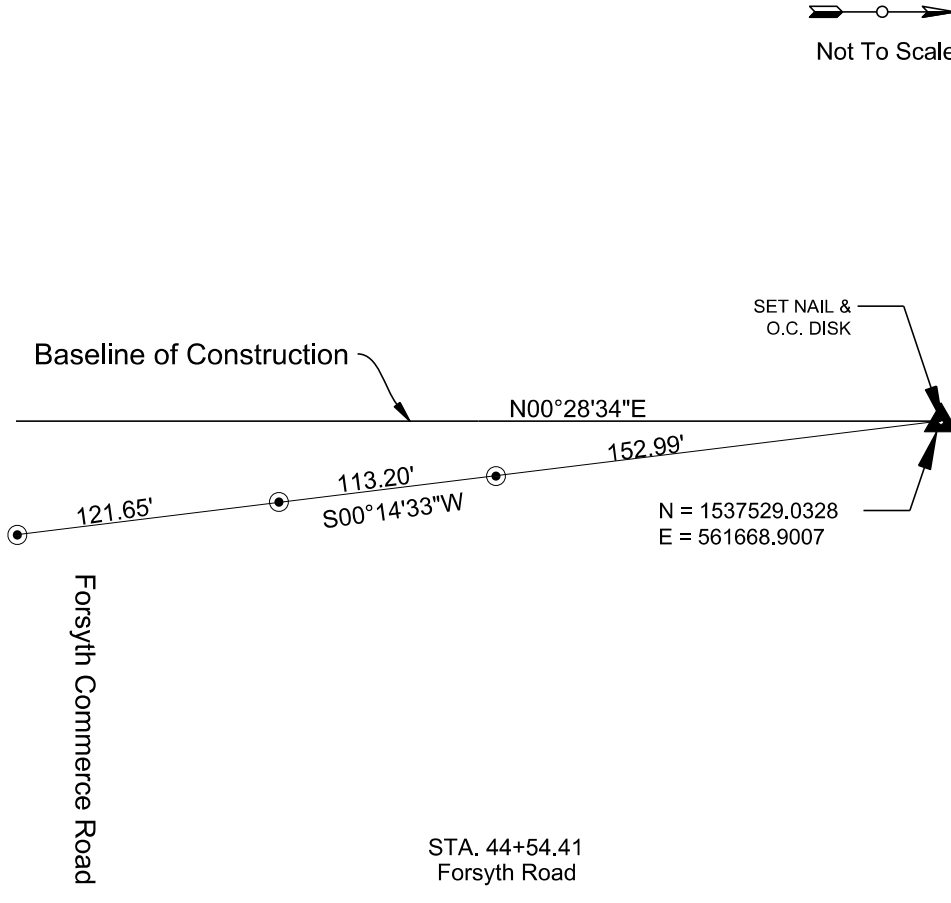
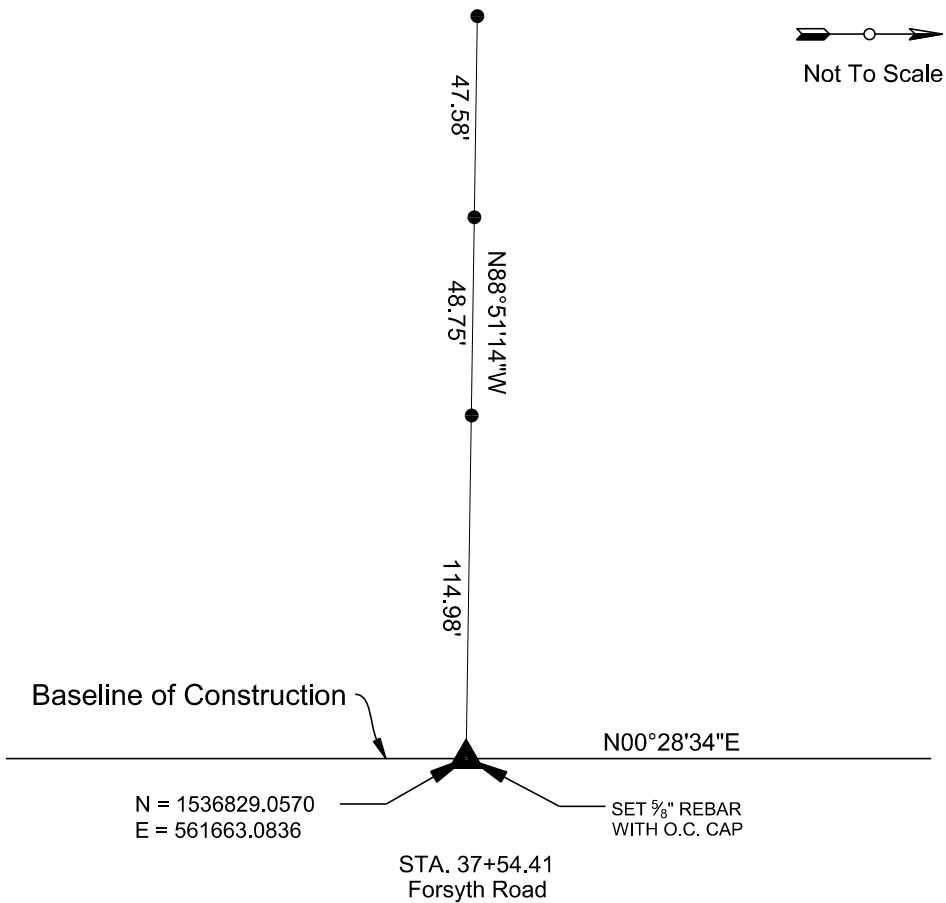
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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ORLANDO, FLORIDA 32839
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SURVEY CONTROL SHEET
FORSYTH ROAD
22-22-30 NE, 22-22-30 SE

SHEET NO.
9



LEGEND

- STATION POINT
- SET 5/8" REBAR WITH ORANGE COUNTY CAP
- SET NAIL & DISK
- SET 1" IRON PIN WITH ORANGE COUNTY CAP
- ORANGE COUNTY

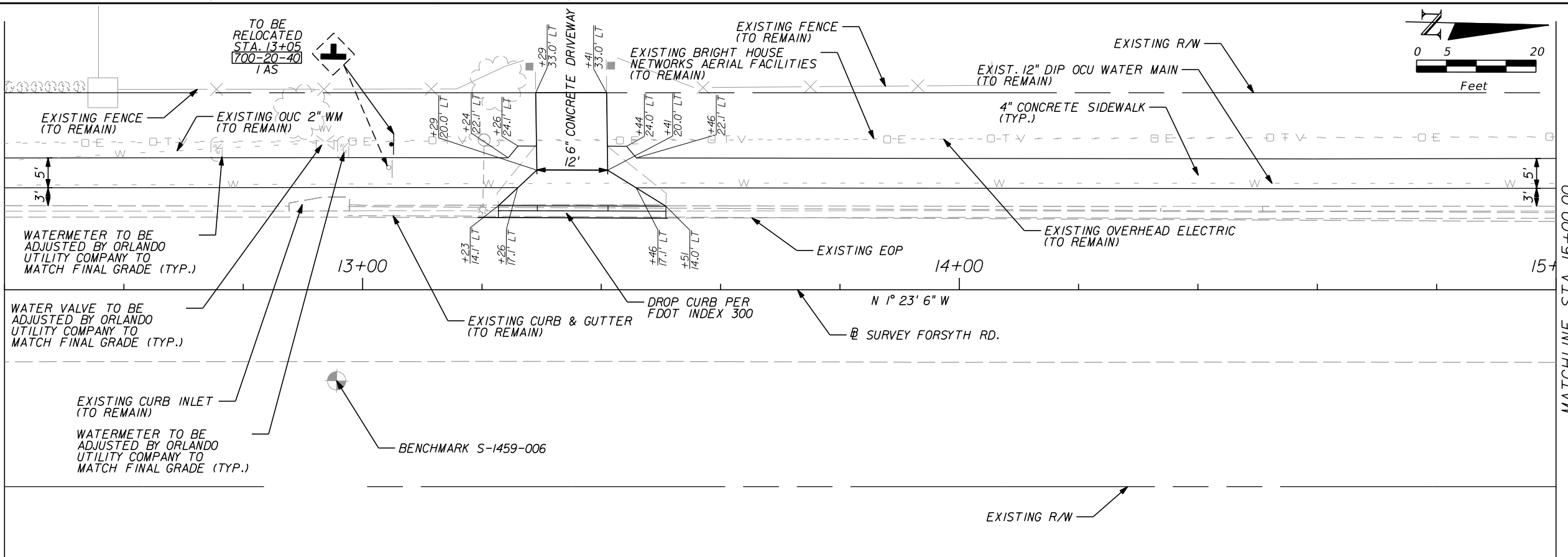
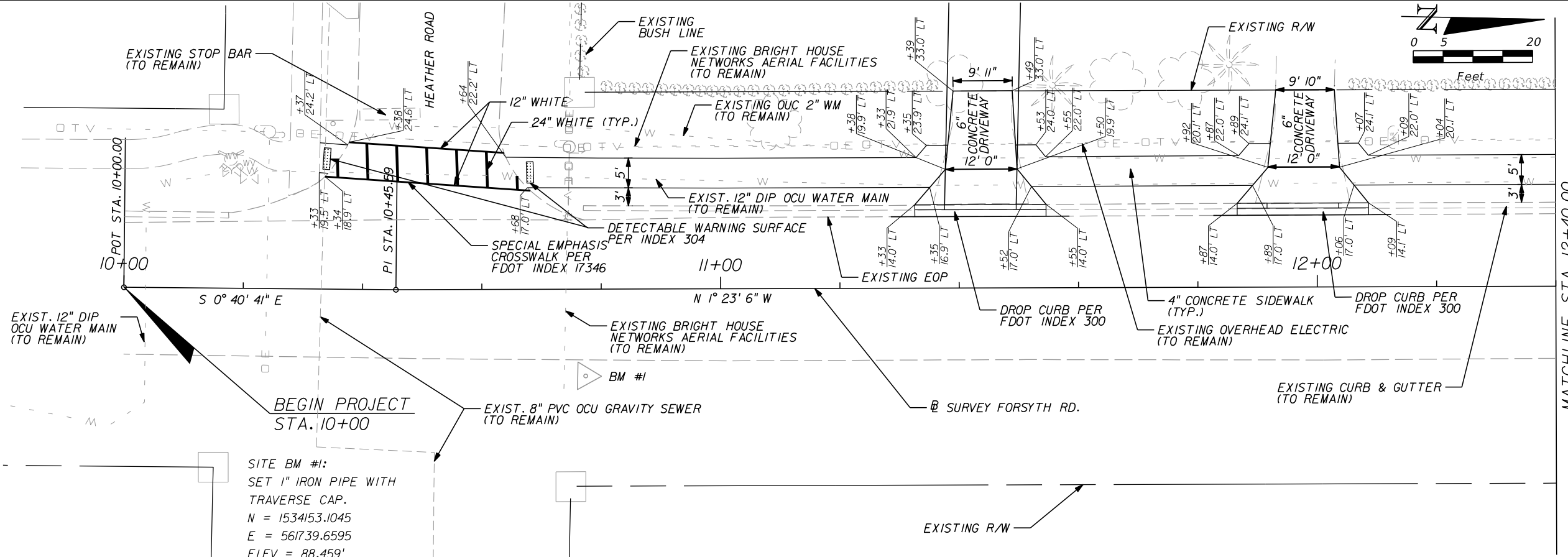
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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SURVEY CONTROL SHEET
FORSYTH ROAD
 22-22-30 NE, 22-22-30 SE

SHEET NO.
10



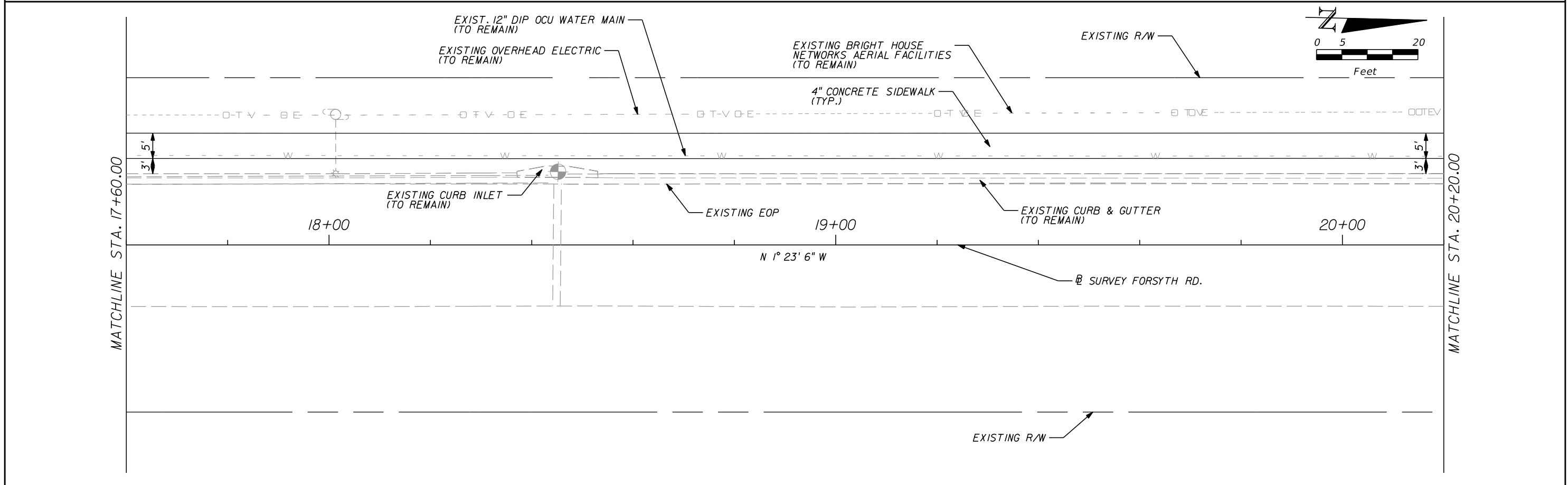
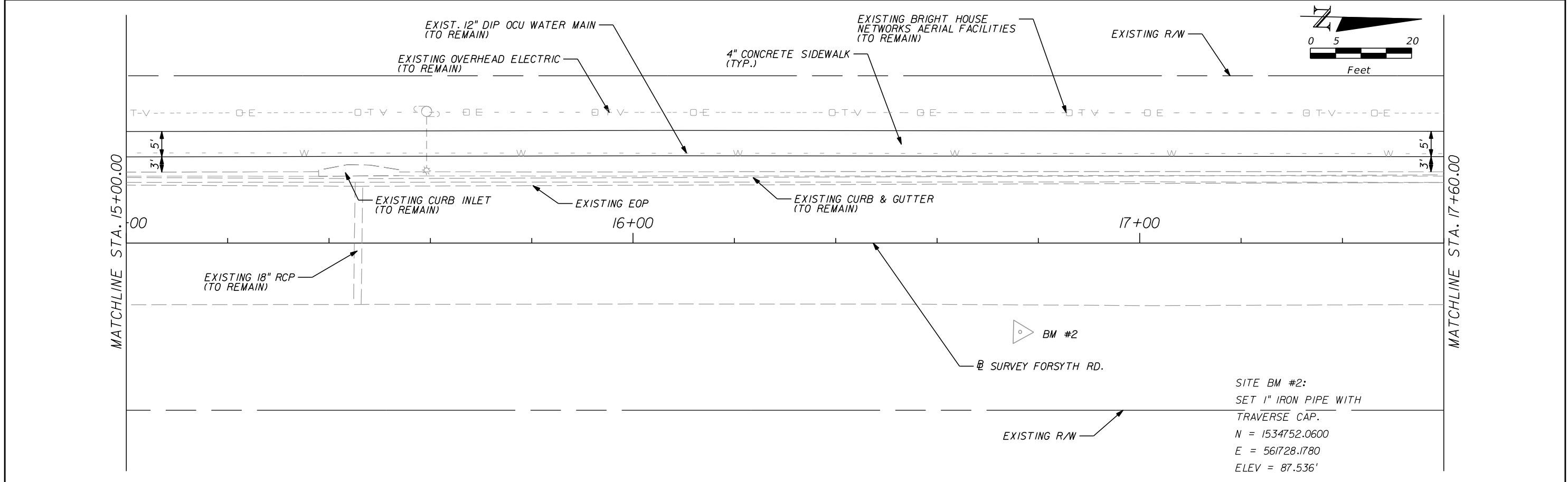
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ INC.
 201 N. Magnolia Ave. Suite 200
 Orlando, FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
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 ORLANDO, FLORIDA 32839
 (407) 836-7900

FORSYTH ROAD
PLAN SHEETS

SHEET NO.
 11



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

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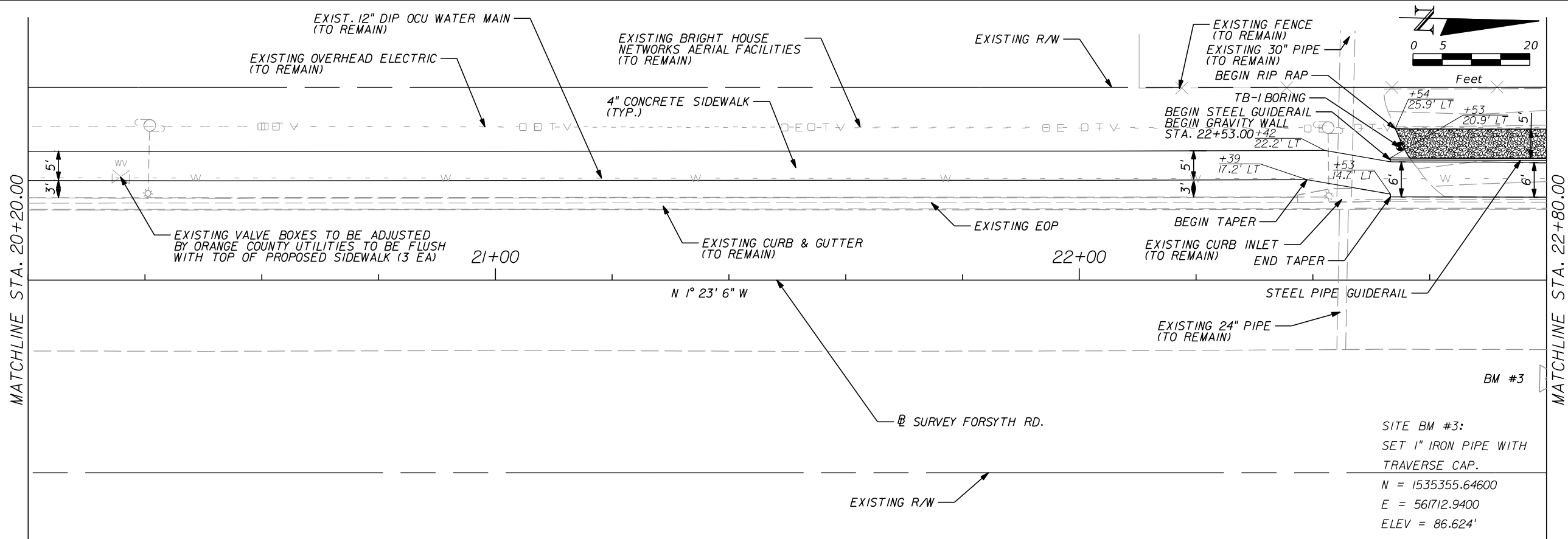
ORANGE COUNTY GOVERNMENT FLORIDA

ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS

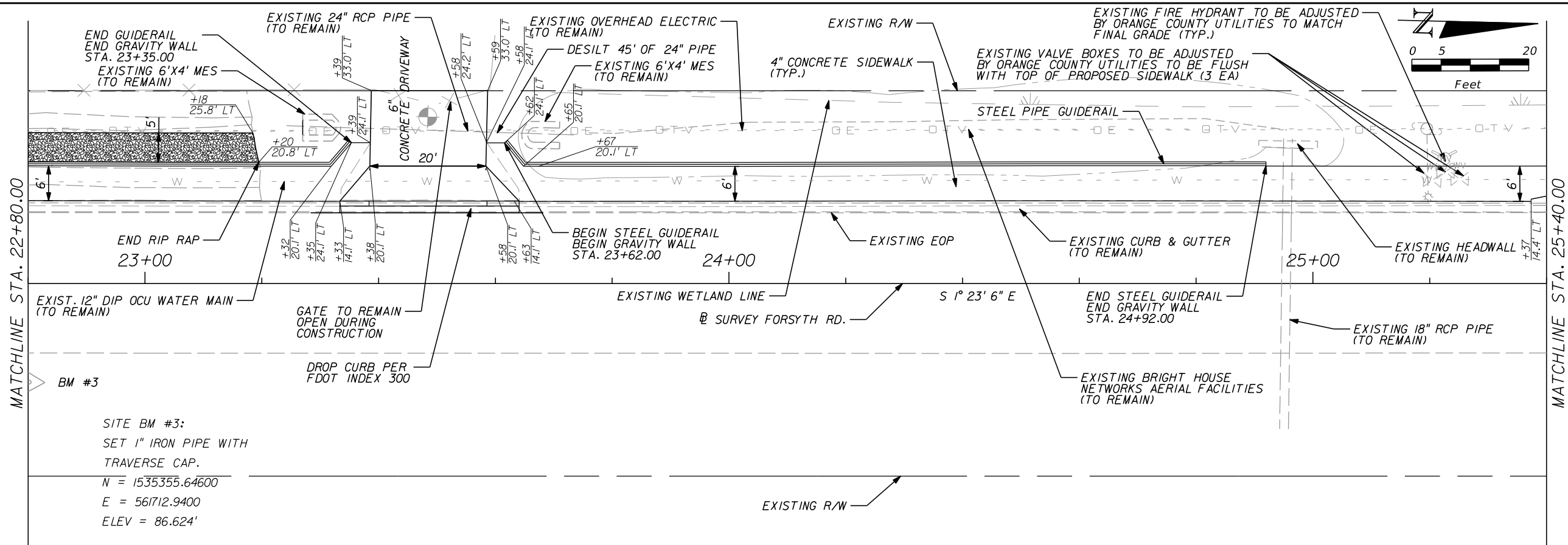
ENGINEERING DIVISION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839
(407) 836-7900

FORSYTH ROAD
PLAN SHEETS

SHEET NO.
12



SITE BM #3:
 SET 1" IRON PIPE WITH
 TRAVERSE CAP.
 N = 1535355.64600
 E = 561712.9400
 ELEV = 86.624'



SITE BM #3:
 SET 1" IRON PIPE WITH
 TRAVERSE CAP.
 N = 1535355.64600
 E = 561712.9400
 ELEV = 86.624'

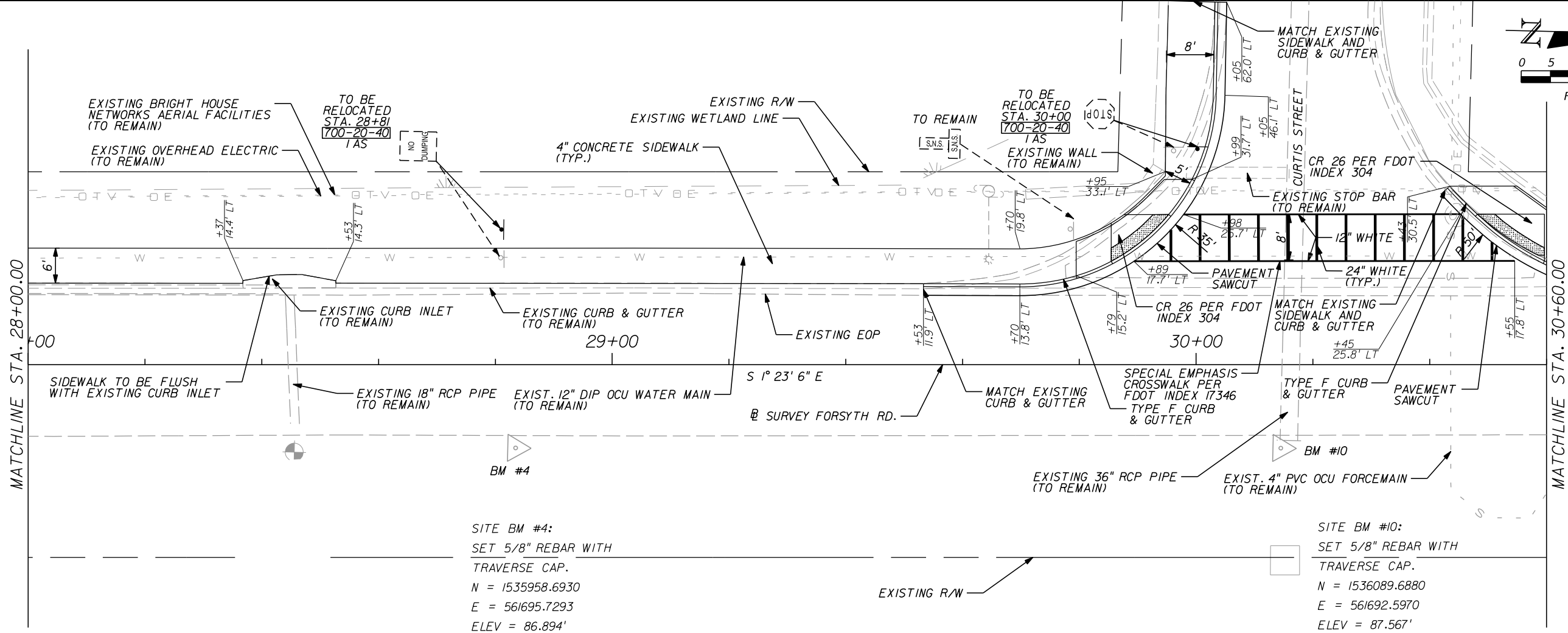
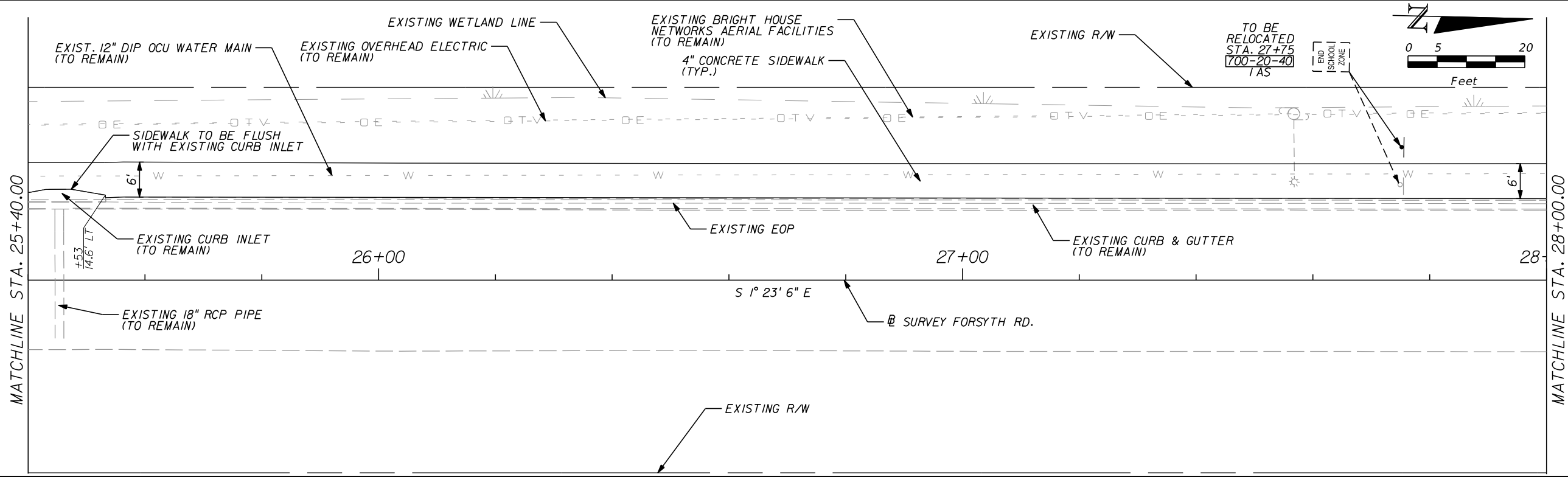
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD
PLAN SHEETS

SHEET NO.
 13



SITE BM #4:
 SET 5/8" REBAR WITH
 TRAVERSE CAP.
 N = 1535958.6930
 E = 561695.7293
 ELEV = 86.894'

SITE BM #10:
 SET 5/8" REBAR WITH
 TRAVERSE CAP.
 N = 1536089.6880
 E = 561692.5970
 ELEV = 87.567'

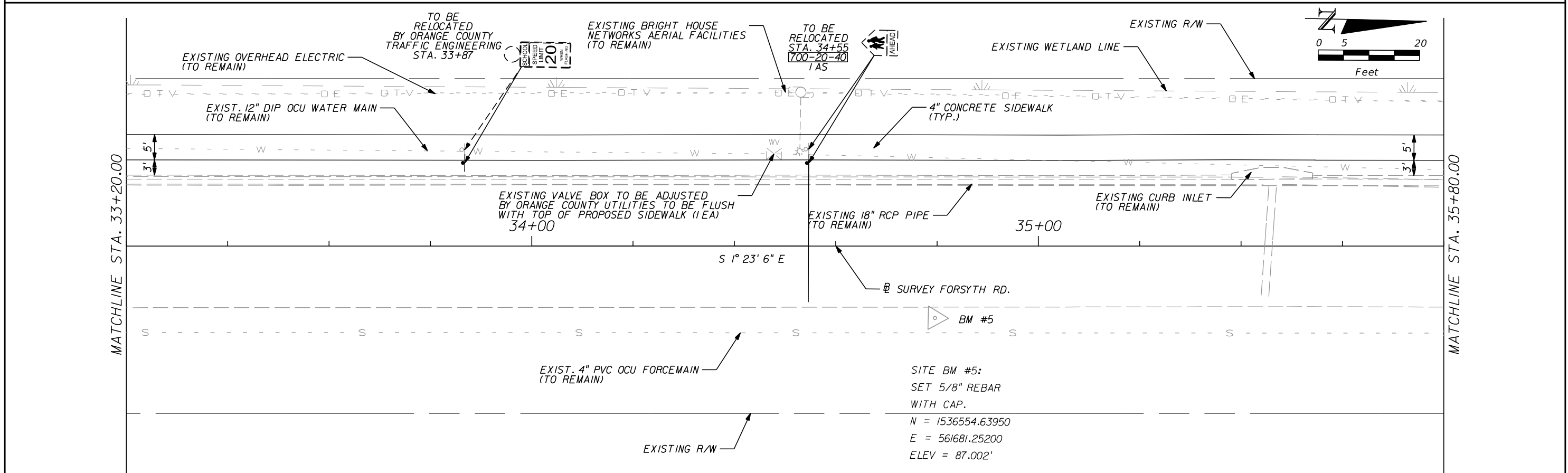
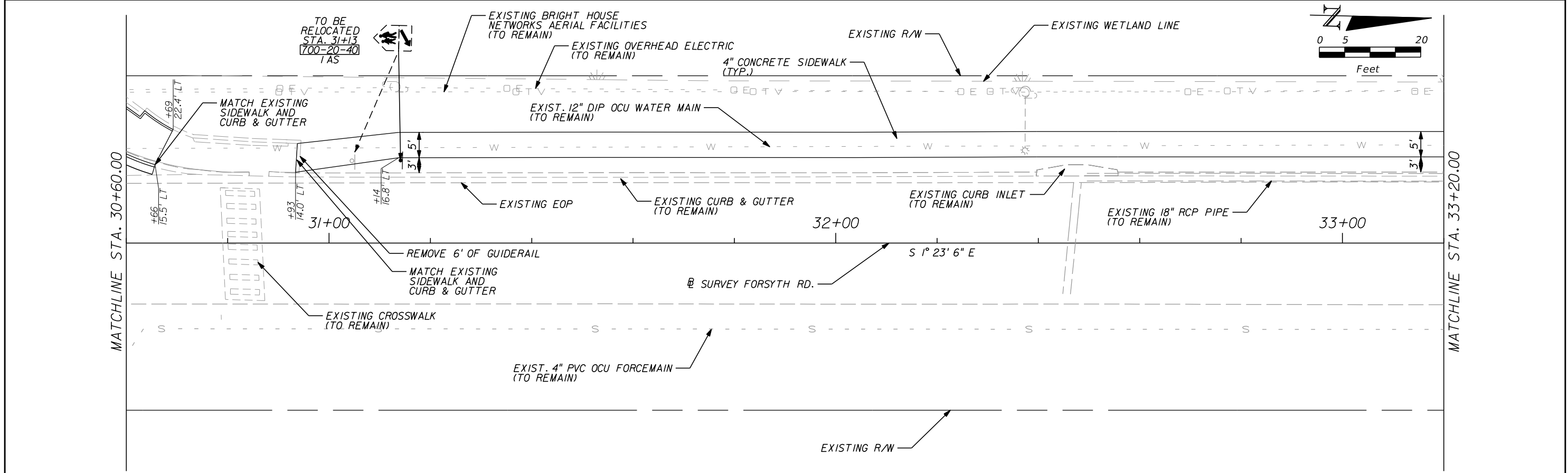
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD
PLAN SHEETS

SHEET NO.
 14



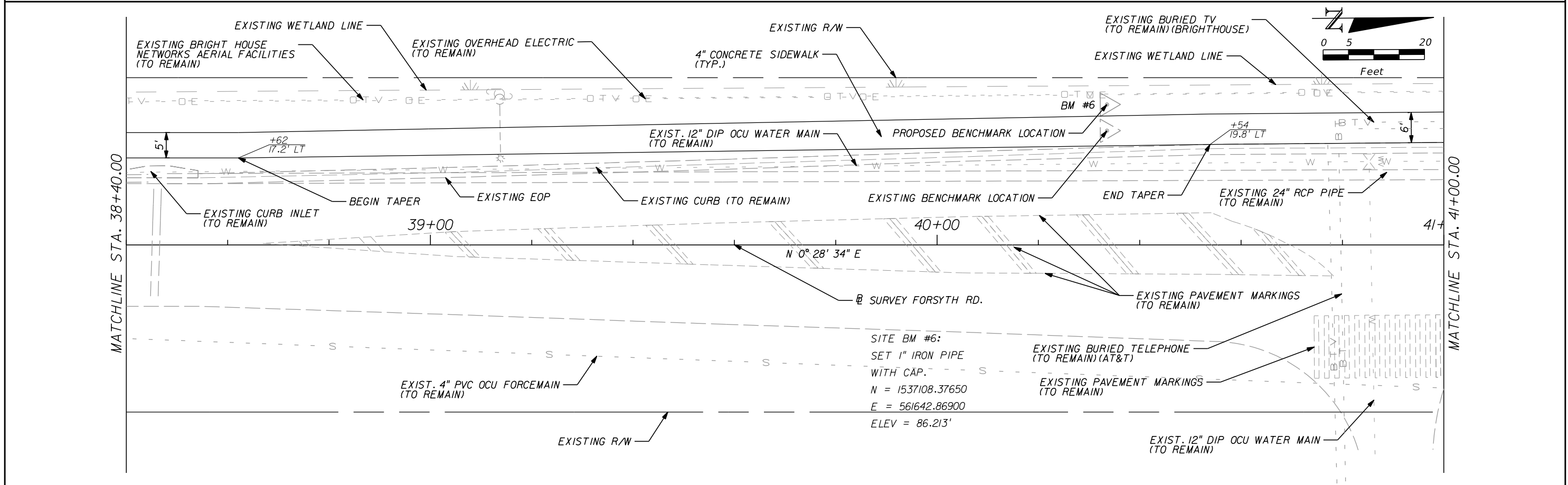
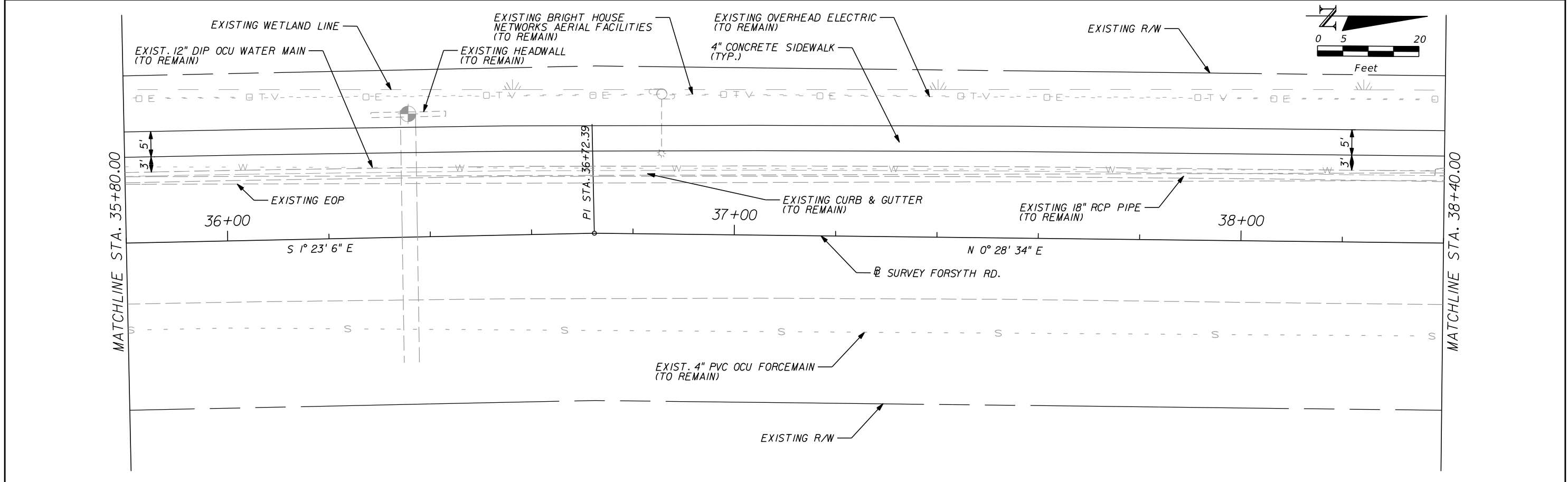
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 ENGINEERING DIVISION
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FORSYTH ROAD PLAN SHEETS

SHEET NO.
 15



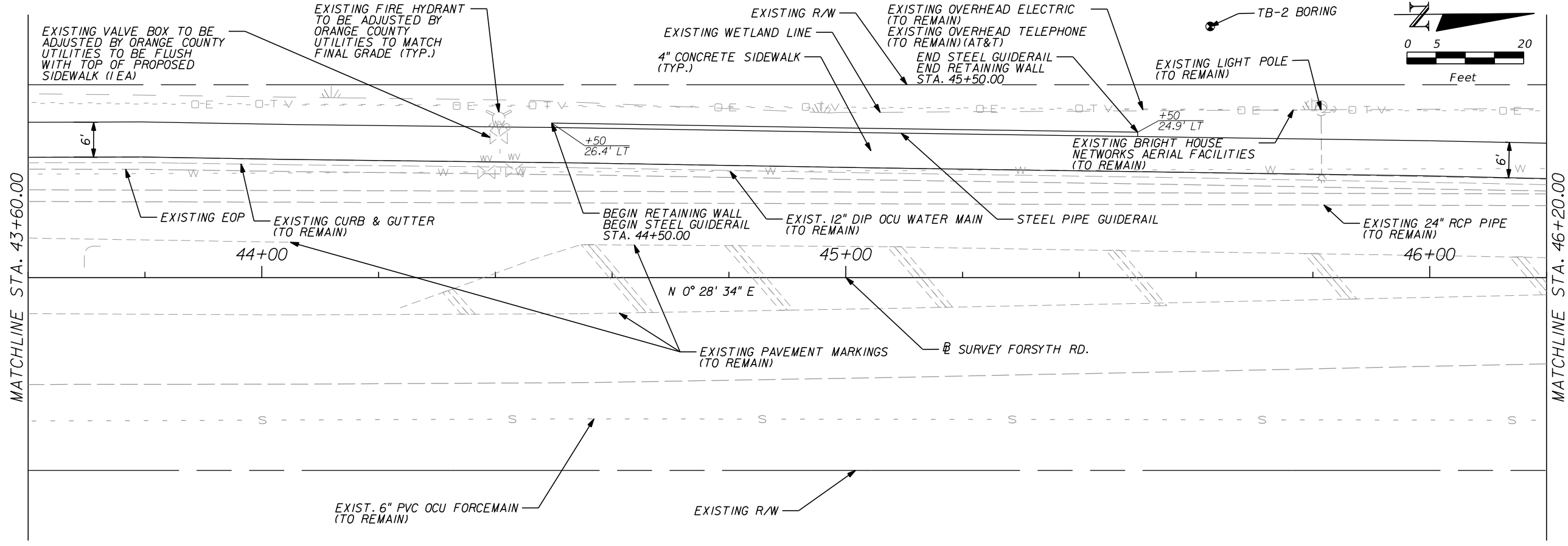
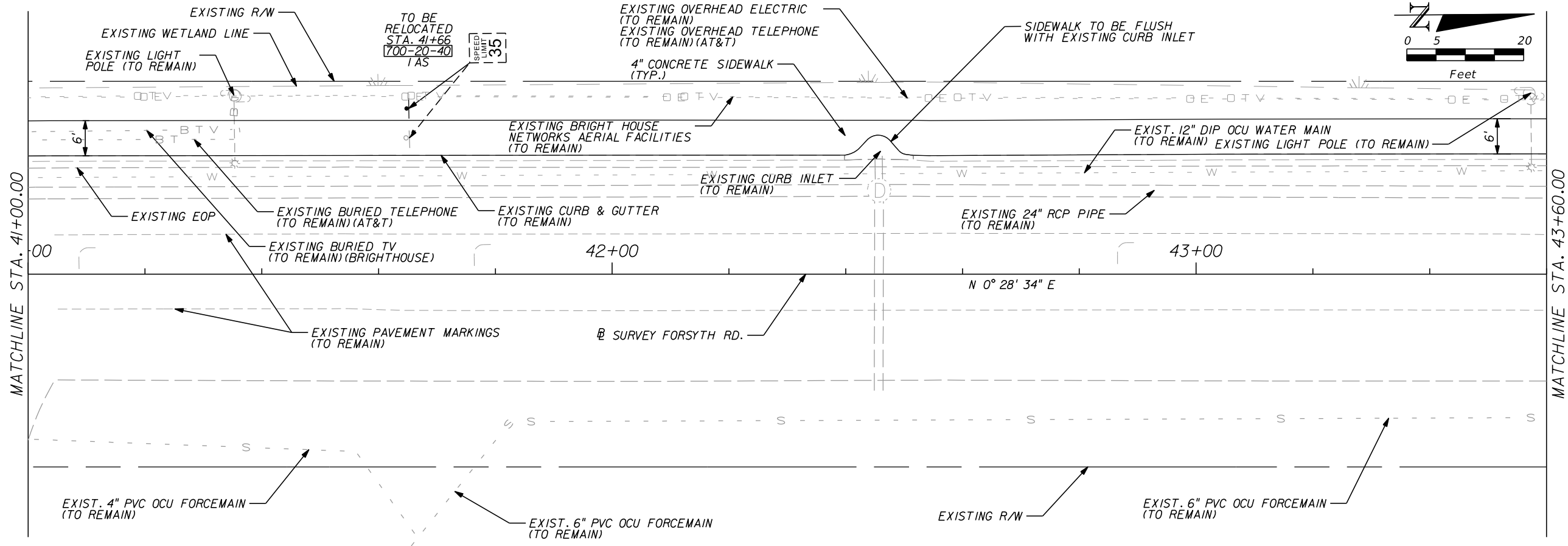
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**FORSYTH ROAD
 PLAN SHEETS**

SHEET NO.
 16



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

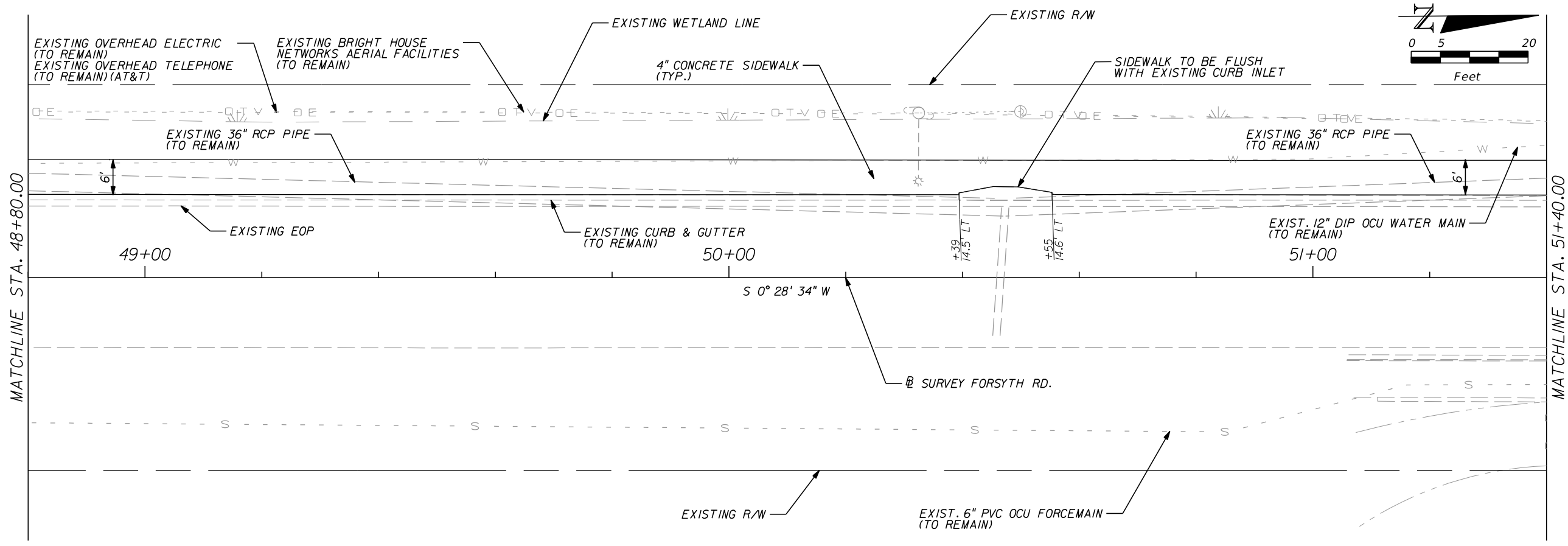
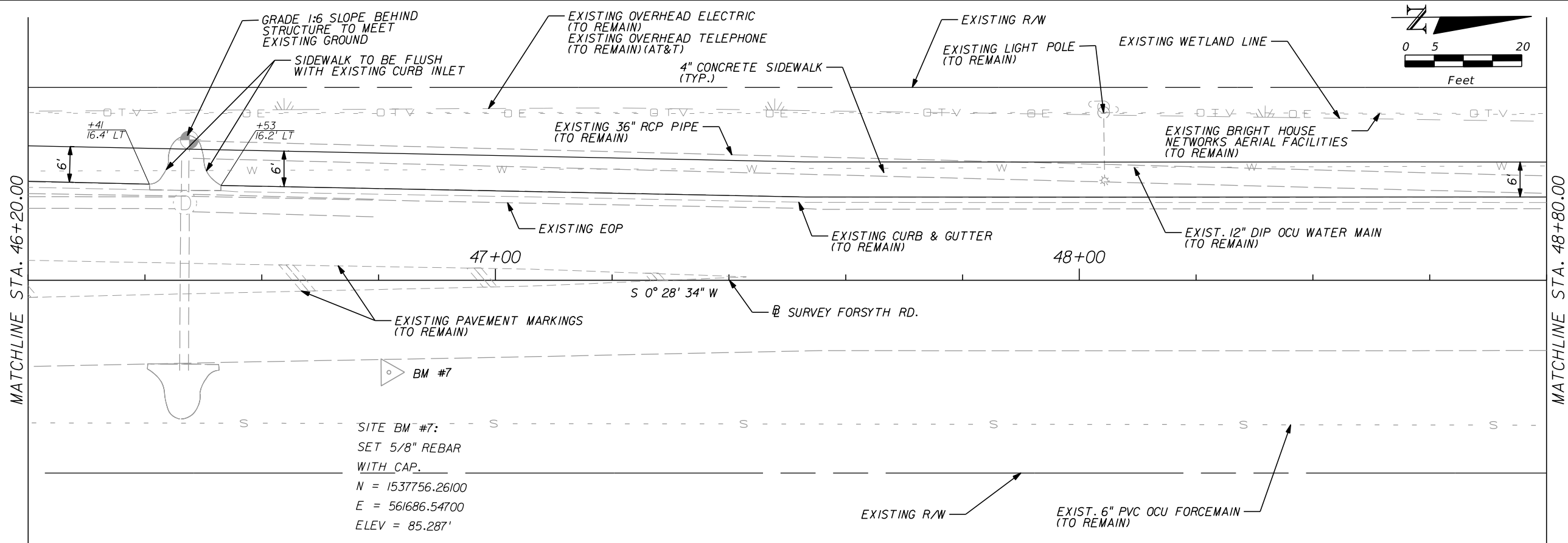
DEREK C. BURKE, P.E. LICENSE NO. 40898
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FORSYTH ROAD
PLAN SHEETS

SHEET NO.
 17



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

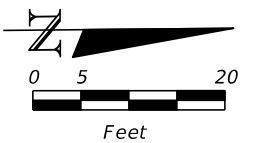
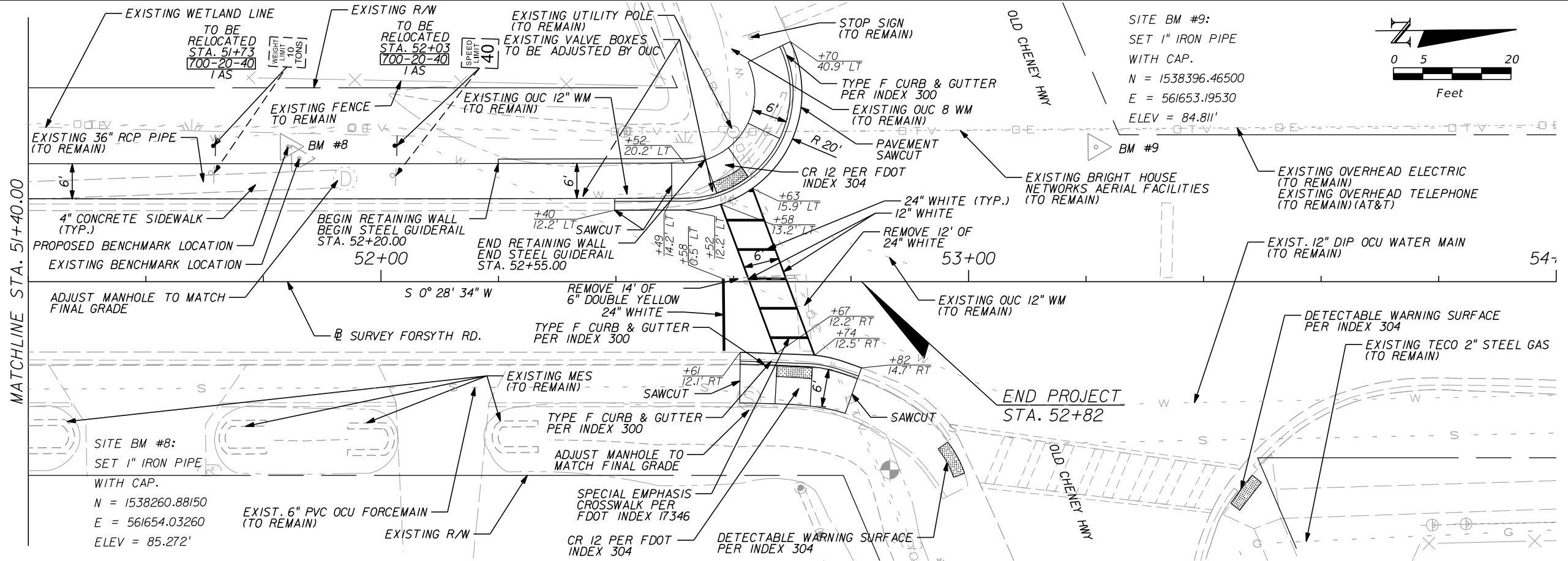
DEREK C. BURKE, P.E. LICENSE NO. 40898
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FORSYTH ROAD
PLAN SHEETS

SHEET NO.
 18



SITE BM #9:
 SET 1" IRON PIPE
 WITH CAP.
 N = 1538396.46500
 E = 561653.19530
 ELEV = 84.811'

SITE BM #8:
 SET 1" IRON PIPE
 WITH CAP.
 N = 1538260.88150
 E = 561654.03260
 ELEV = 85.272'

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**FORSYTH ROAD
 PLAN SHEETS**

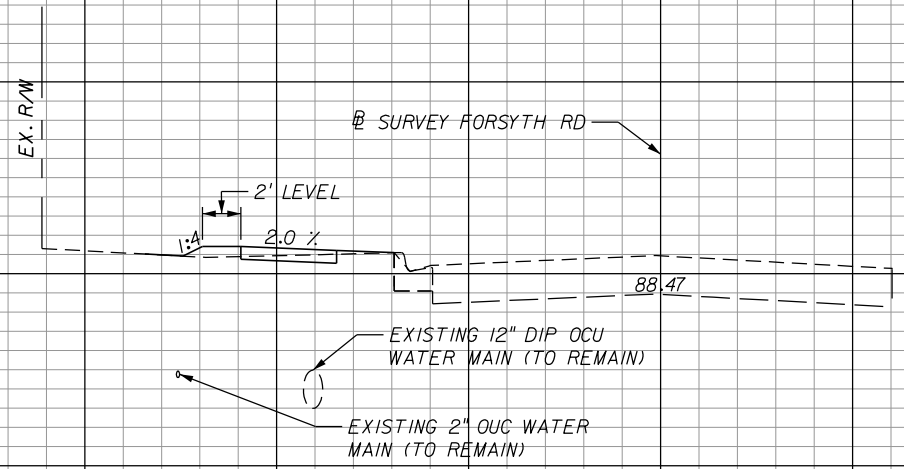
SHEET NO.
 19

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

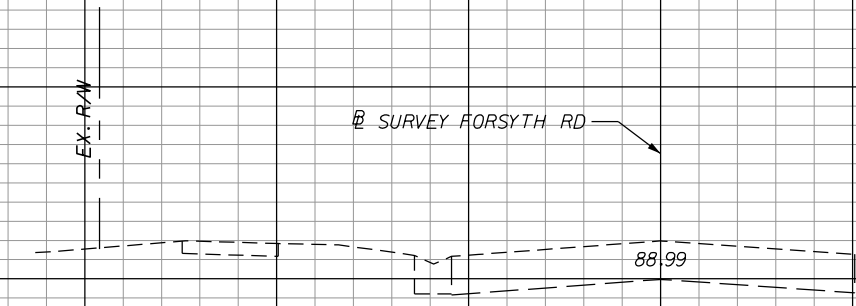
Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.6		0.7
		0.8		0.9	
			1.4		1.6
		0.0		0.0	

96
94
92
90
88
86
84

96
94
92
90
88
86
84



11+00.00



BEGIN EARTHWORK
10+33.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD CROSS SECTIONS

SHEET NO.
20

Regular		Exc.		Embankment	
A	V	A	V	A	V

96

94

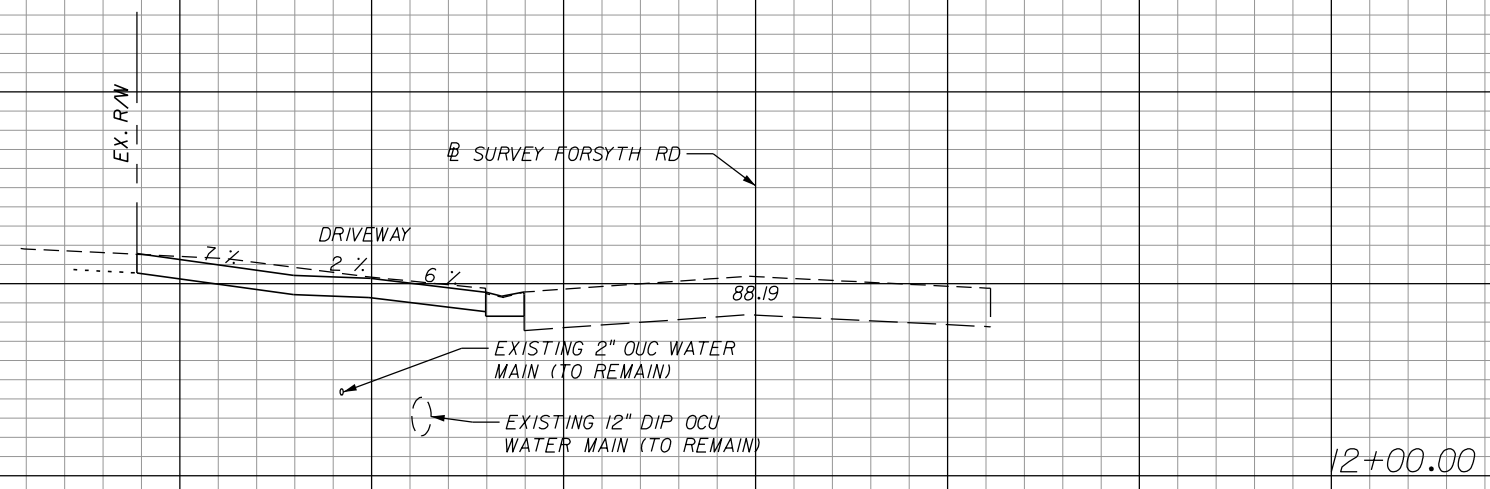
92

90

88

86

84



0.0	2.4	0.0	0.6
-----	-----	-----	-----

96

94

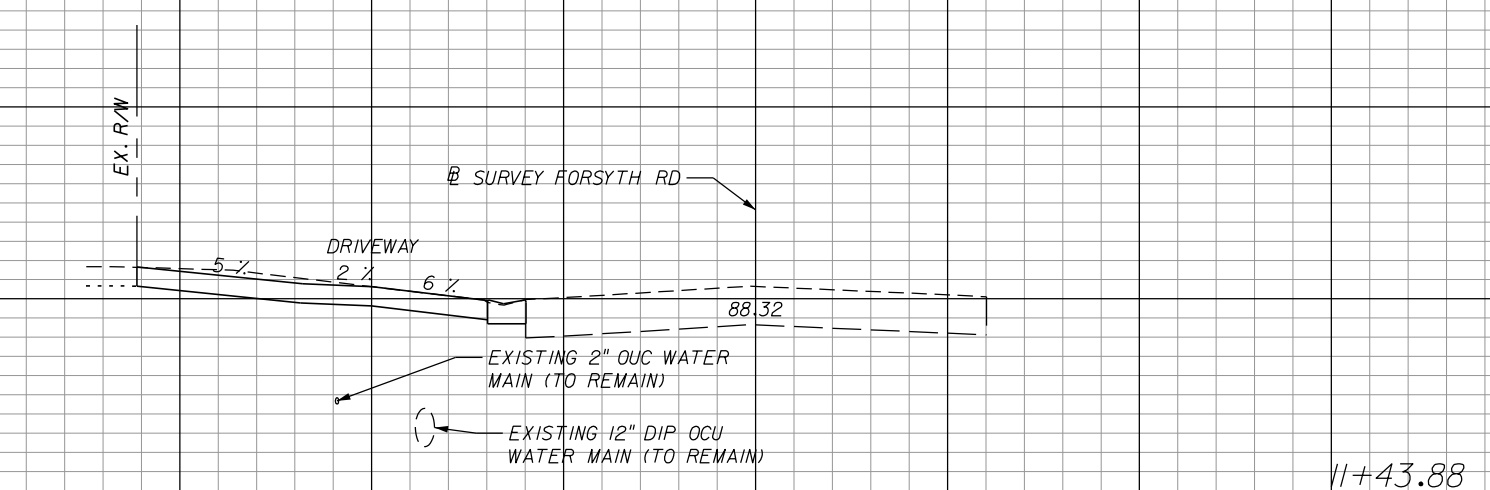
92

90

88

86

84



0.0	0.0	0.0	0.0
-----	-----	-----	-----

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

REVISIONS			
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FORSYTH ROAD CROSS SECTIONS

SHEET NO. 21

Regular		Exc.		Embankment	
A	V	A	V	A	V

94

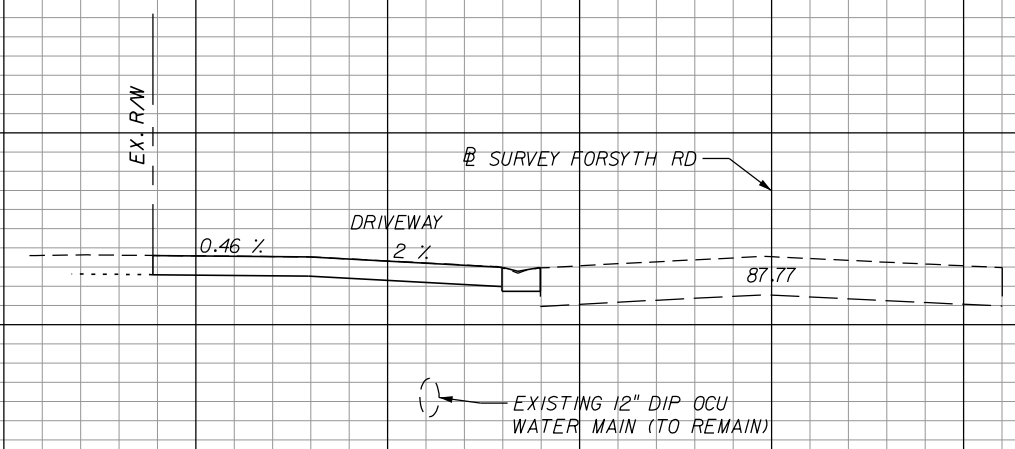
92

90

88

86

84



13+35.08

5.1	7.0	0.0	0.8
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94

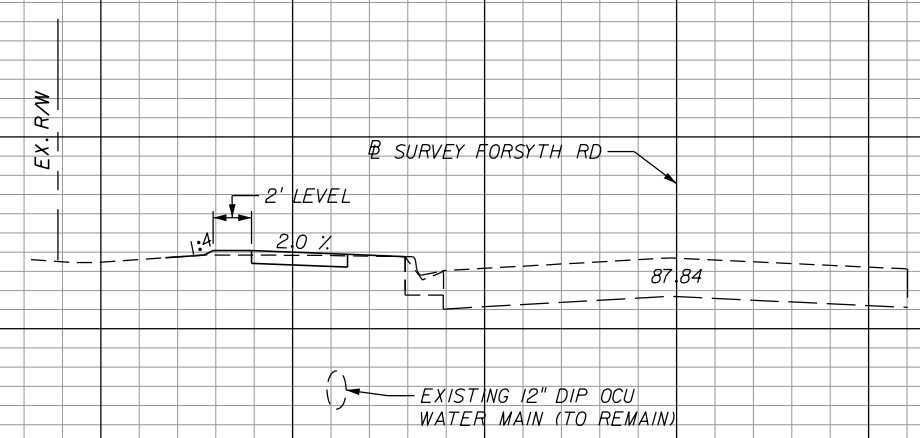
92

90

88

86

84



13+00.00

1.3	4.2	0.3	0.2
-----	-----	-----	-----

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ Design & Engineering
 201 N. Magnolia Ave. Suite 200
 Orlando, FL 32801
 Phone 407.839.4300 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

FORSYTH ROAD CROSS SECTIONS

SHEET NO.
22

Regular		Exc.		Embankment	
A	V	A	V	A	V

94

92

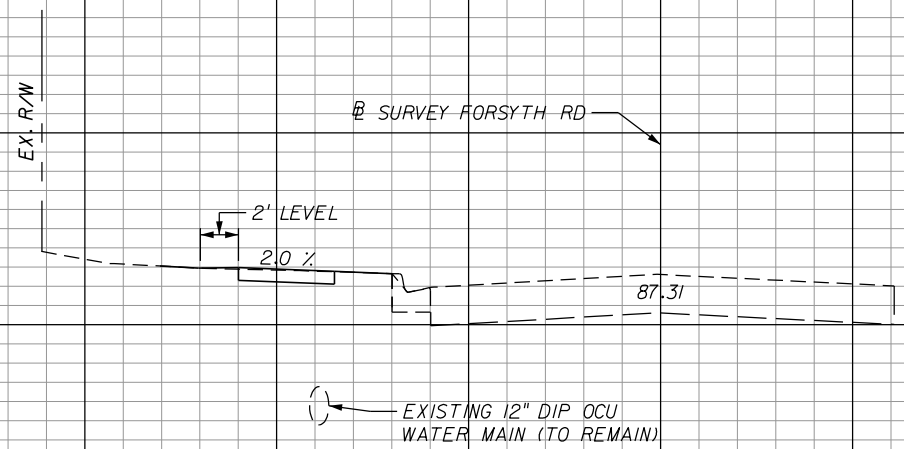
90

88

86

84

82



15+00.00

	1.6		0.1		
--	-----	--	-----	--	--

94

92

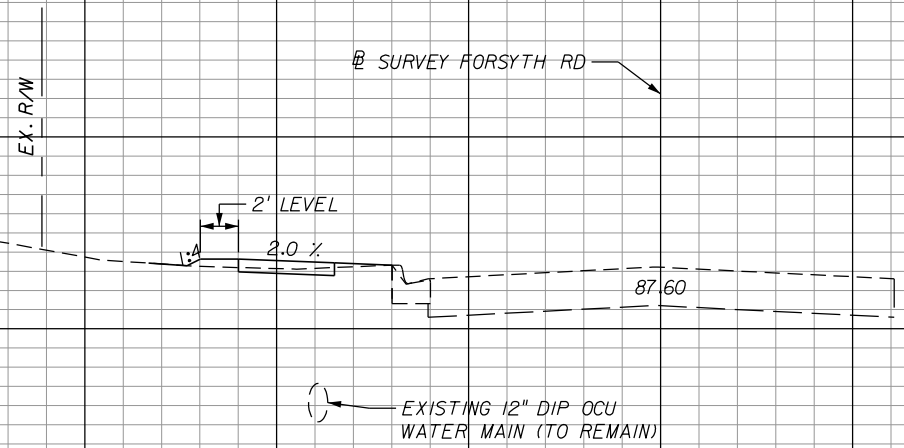
90

88

86

84

82



14+00.00

	0.7		0.7		
--	-----	--	-----	--	--

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
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 4200 SOUTH JOHN YOUNG PARKWAY
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 (407) 836-7900

FORSYTH ROAD CROSS SECTIONS

SHEET NO. 23

Regular		Exc.		Embankment	
A	V	A	V	A	V
			5.5		1.4
1.0		0.7			
		2.8			2.9
0.6		0.9			

94

92

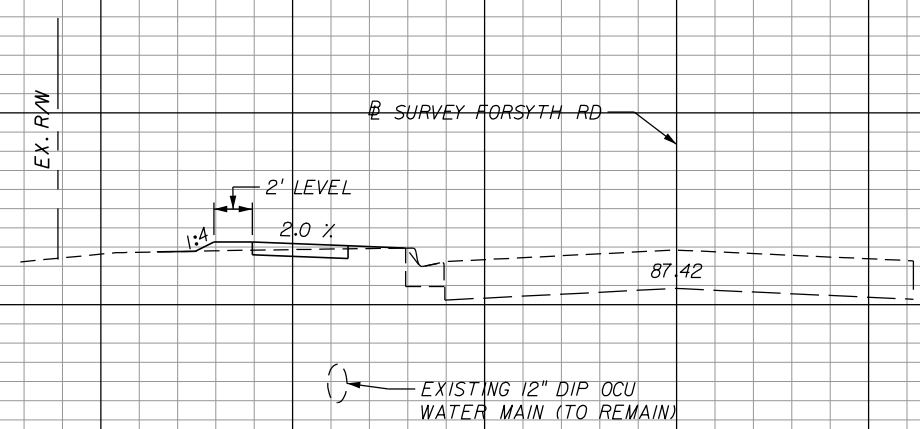
90

88

86

84

82



17+00.00

94

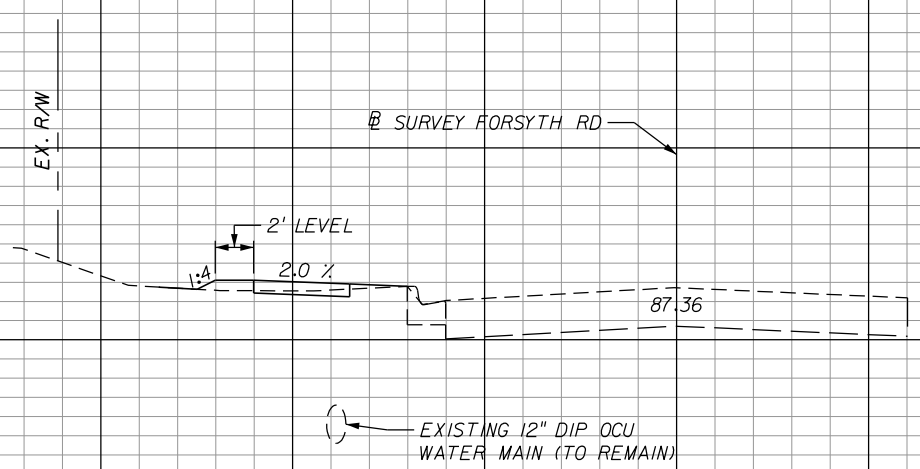
92

90

88

86

84



16+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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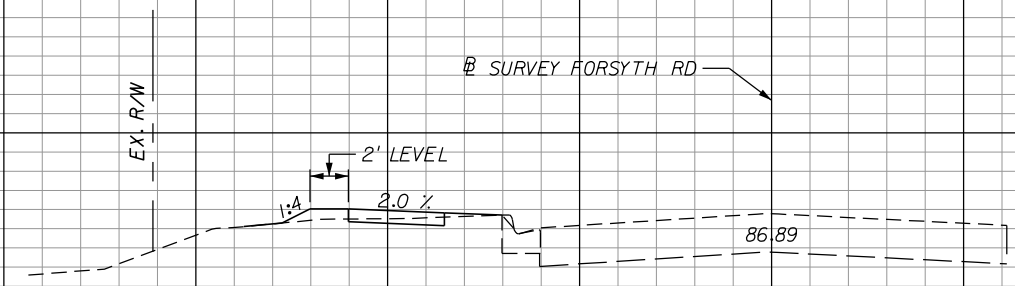
FORSYTH ROAD
CROSS SECTIONS

SHEET NO.
24

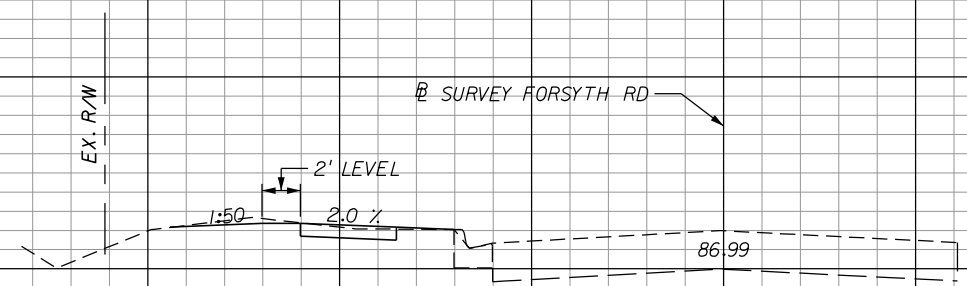
Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.5		4.9
0.7		1.0			
		5.0			1.9
2.0		0.1			

92
90
88
86
84
82

94
92
90
88
86
84
82



19+00.00



18+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD CROSS SECTIONS

SHEET NO.
25

Regular		Exc.		Embankment	
A	V	A	V	A	V

94

92

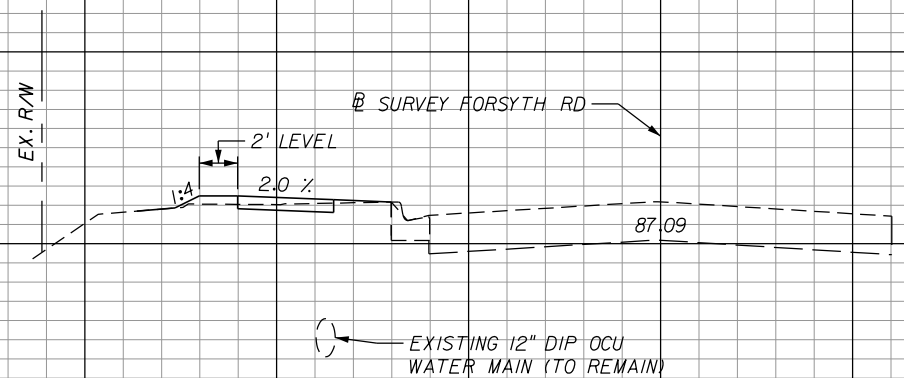
90

88

86

84

82



21+00.00

0.9	3.6	0.7	2.1
-----	-----	-----	-----

94

92

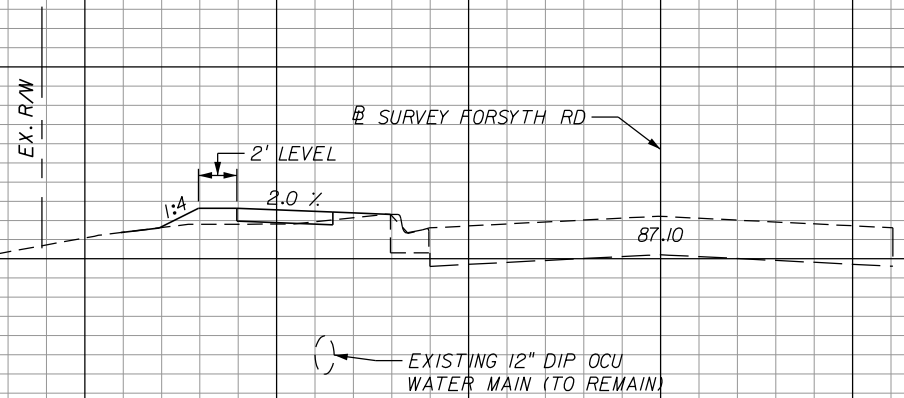
90

88

86

84

82



20+00.00

0.1	1.8	1.7	4.4
-----	-----	-----	-----

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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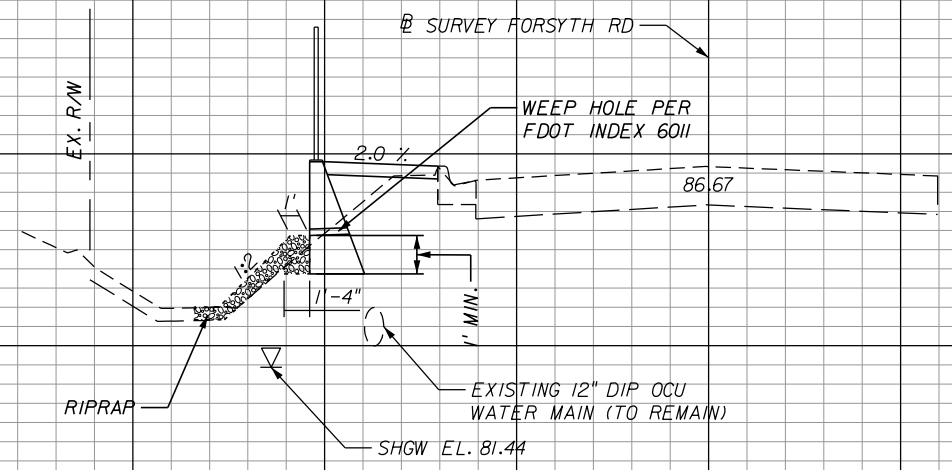
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FORSYTH ROAD CROSS SECTIONS

SHEET NO.
26

Regular		Exc.		Embankment	
A	V	A	V	A	V
			3.7		3.8
4.1				4.2	
			9.7		8.7
1.1				0.5	

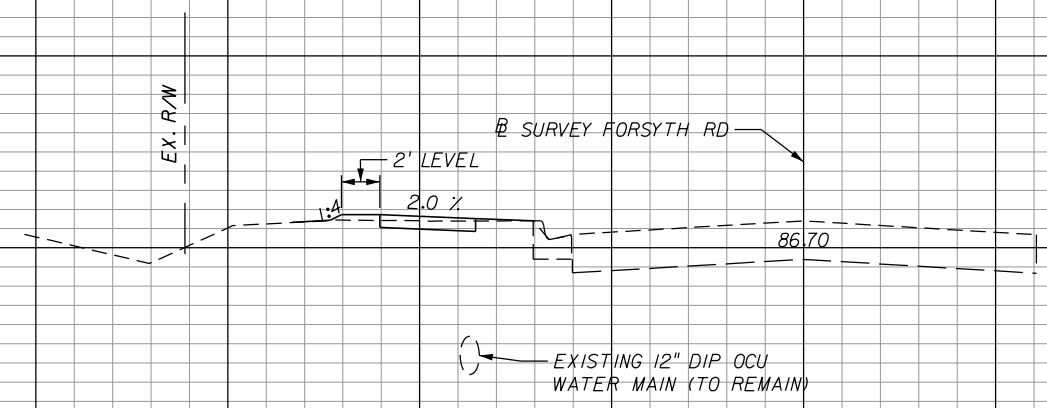
90
88
86
84
82
80



23+00.00

BEGIN GRAVITY WALL
STA. 22+53.00

94
92
90
88
86
84
82



22+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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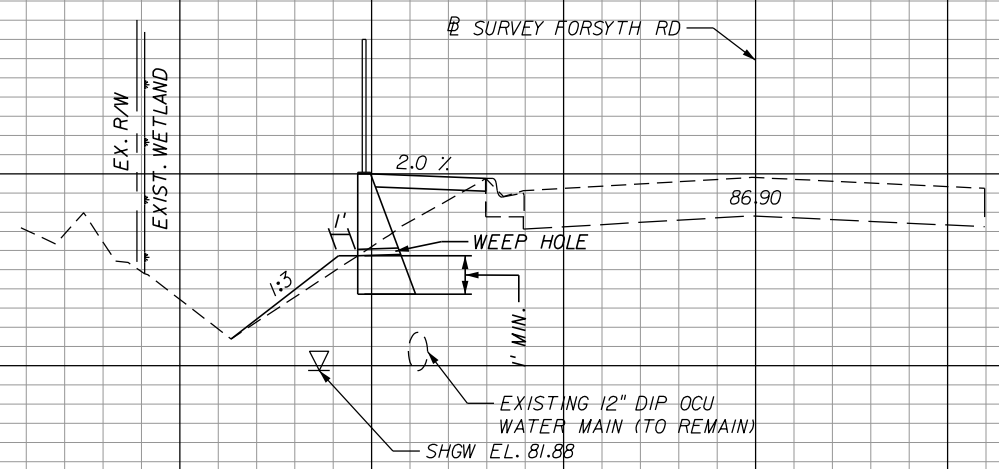
ORANGE COUNTY GOVERNMENT
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FORSYTH ROAD CROSS SECTIONS

SHEET NO.
27

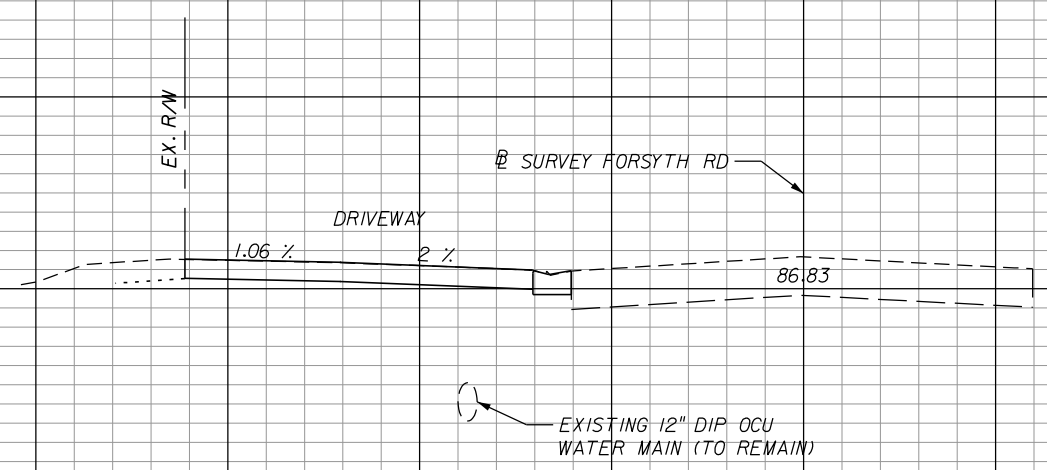
Regular		Exc.		Embankment	
A	V	A	V	A	V
			6.9		14.7
3.5				3.8	
			3.3		3.6
0.0				0.0	

90
88
86
84
82
80



24+00.00

94
92
90
88
86
84
82



23+48.52

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

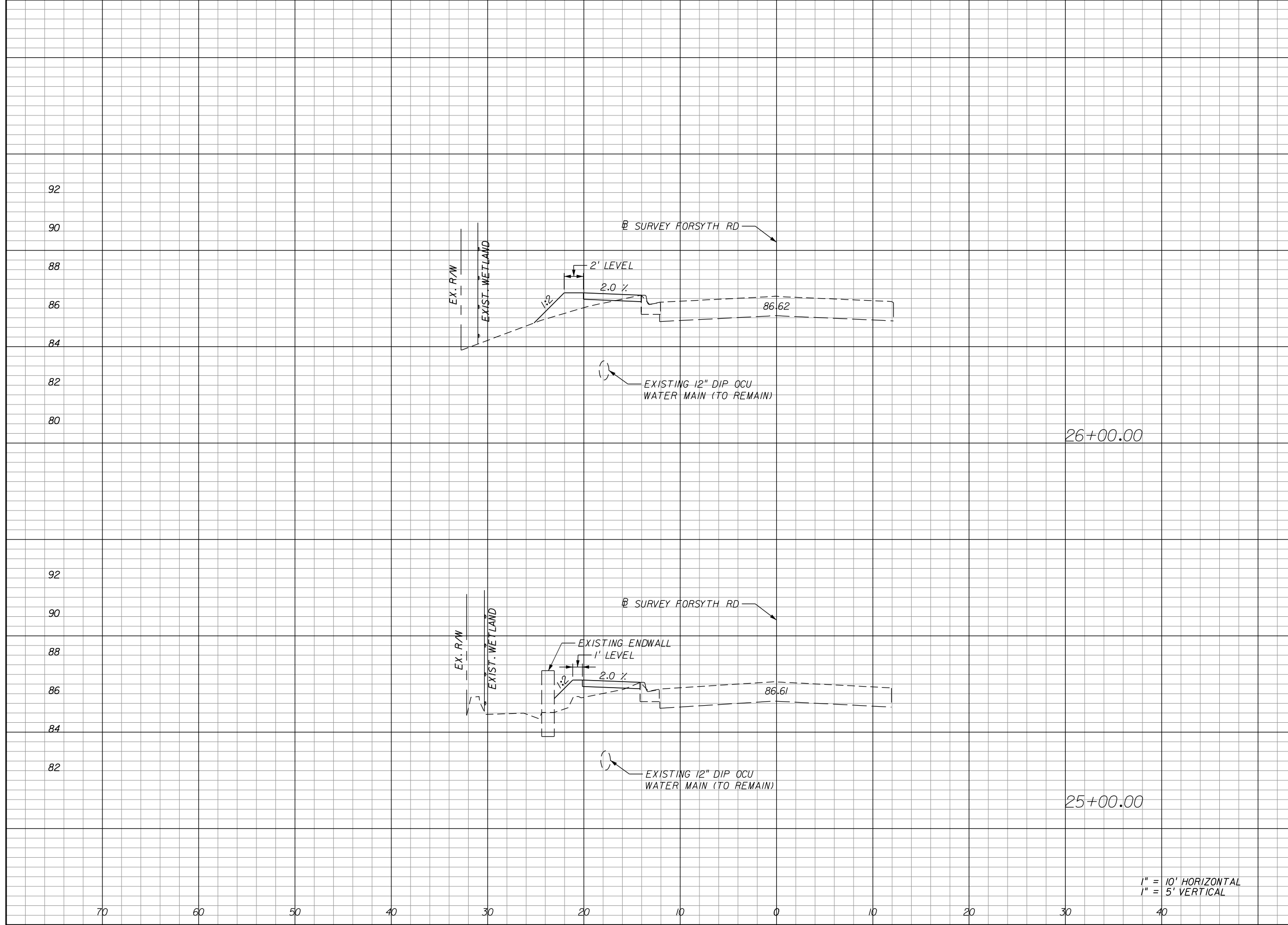
DEREK C. BURKE, P.E. LICENSE NO. 40898
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 Orlando, FL 32801
 Phone 407.839.4300 Fax 407.839.1621
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FORSYTH ROAD CROSS SECTIONS

SHEET NO.
28

Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.7		16.9
0.5				4.2	
0.3			1.3		15.5
				4.2	



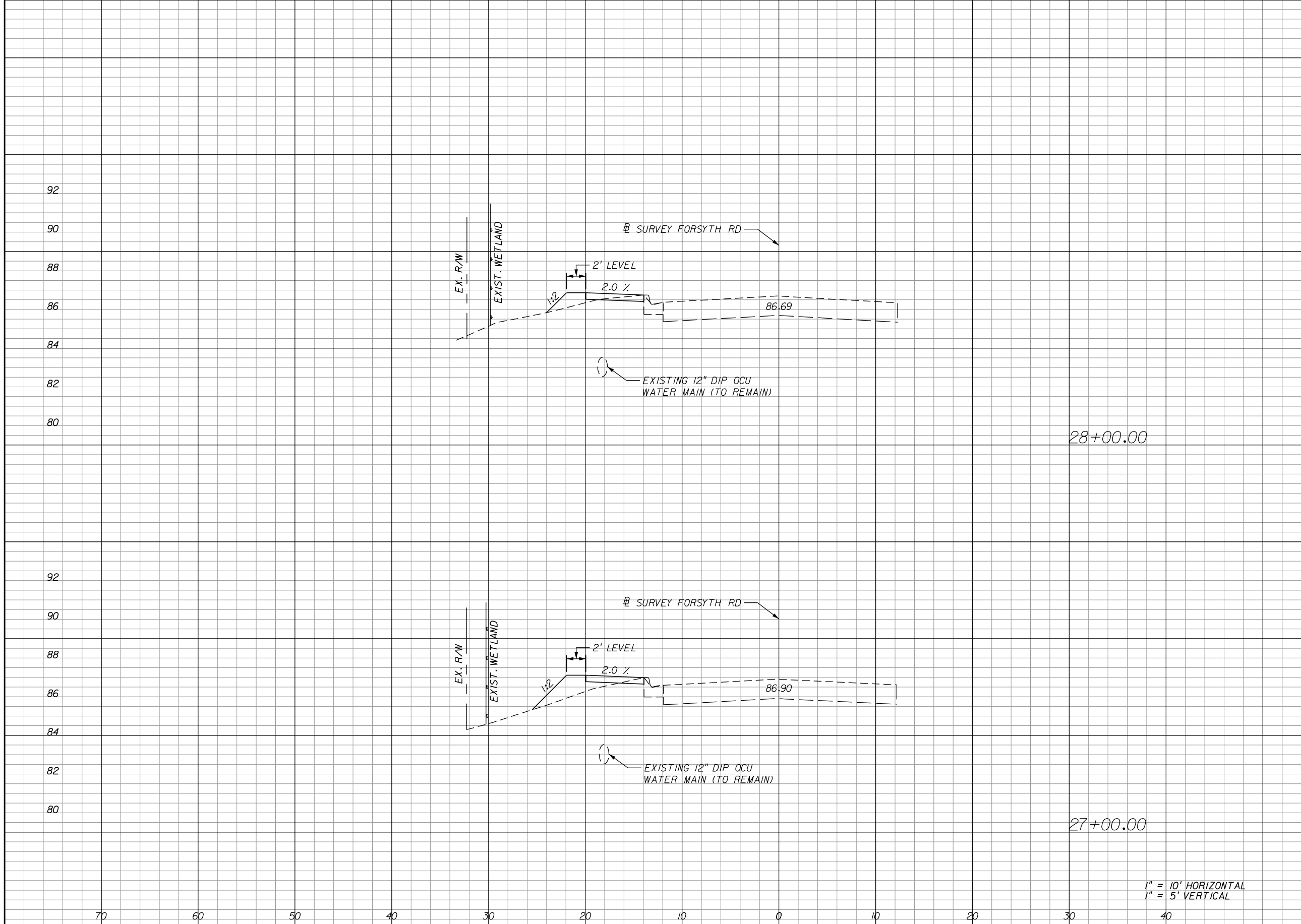
1" = 10' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD CROSS SECTIONS



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.6		10.9
0.8			2.2		
			2.3		13.2
0.5			5.0		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**FORSYTH ROAD
 CROSS SECTIONS**

Regular		Exc.		Embankment	
A	V	A	V	A	V
			7.1		0.9
2.6		0.0			
0.6		5.9			6.9
				3.7	

94
92
90
88
86
84
92
90
88
86
84
82
80

☺ SURVEY FORSYTH RD

MATCH EXISTING

87.43

EXISTING 12" DIP OCU WATER MAIN (TO REMAIN)

30+00.00

☺ SURVEY FORSYTH RD

EX. R/W
EXIST. WETLAND

2' LEVEL

2.0 %

1:2

86.94

EXISTING 12" DIP OCU WATER MAIN (TO REMAIN)

29+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

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 Orlando, FL 32801
 Phone 407.839.4300
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 CERTIFICATE OF AUTHORIZATION NO. 6796

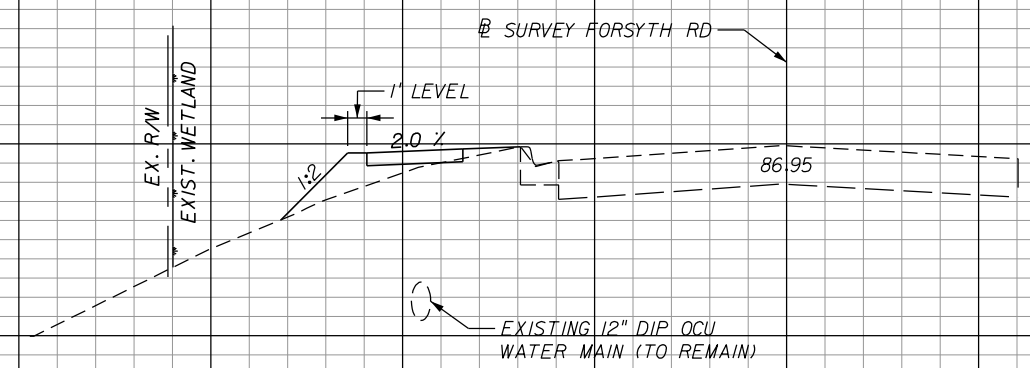
 **ORANGE COUNTY**
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

FORSYTH ROAD
CROSS SECTIONS

SHEET NO.
31

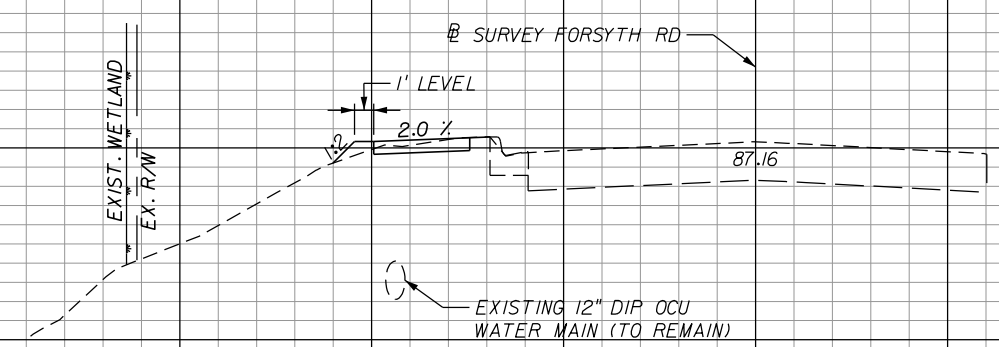
Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.2	13.1	
0.1		3.9			
		2.4		8.1	
1.3		0.5			

90
88
86
84
82
80
78



32+00.00

90
88
86
84
82
80
78



31+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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WBQ Design & Engineering
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 Orlando, FL 32801
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ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
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 (407) 836-7900

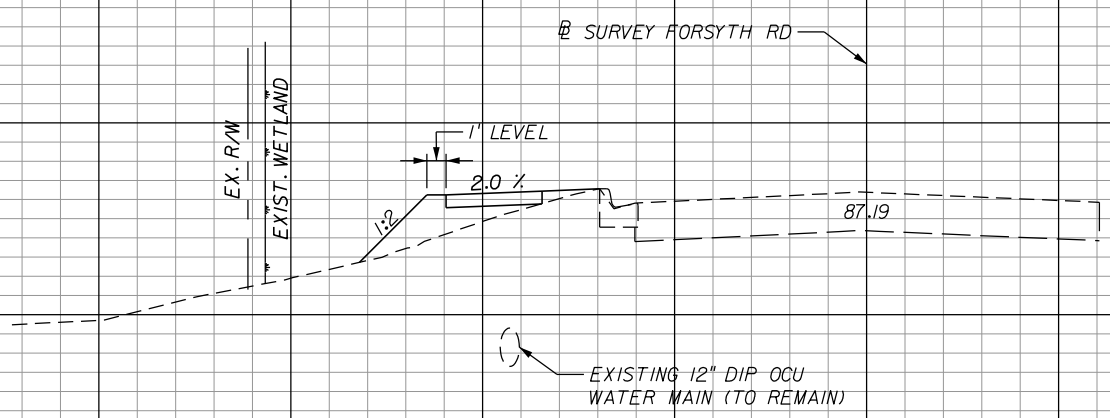
FORSYTH ROAD CROSS SECTIONS

SHEET NO.
32

Regular		Exc.		Embankment	
A	V	A	V	A	V

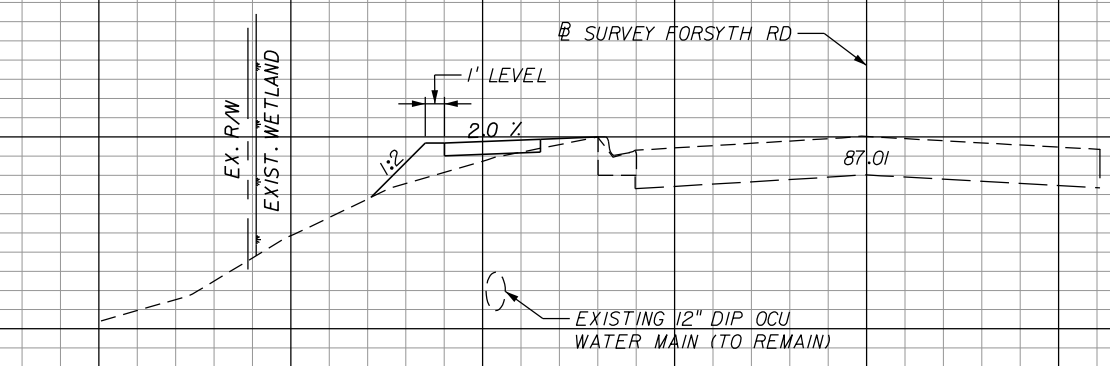
92
90
88
86
84
82
80

90
88
86
84
82
80
78



34+00.00

0.0	0.1	5.4	16.6
-----	-----	-----	------



33+00.00

0.1	0.1	3.2	15.7
-----	-----	-----	------

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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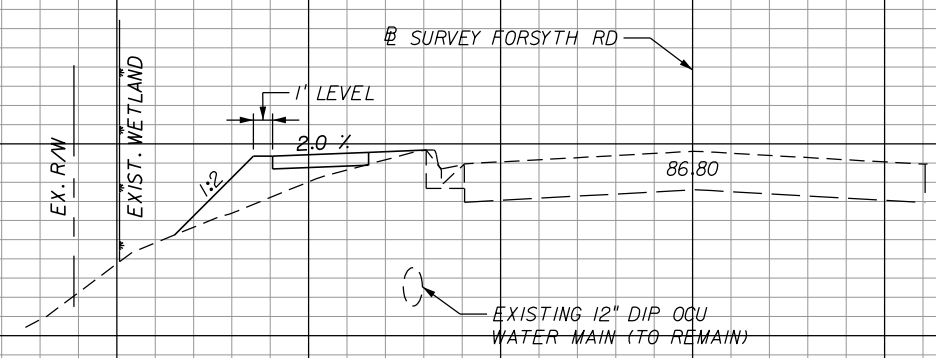
 **ORANGE COUNTY GOVERNMENT**
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 (407) 836-7900

FORSYTH ROAD CROSS SECTIONS

SHEET NO.
33

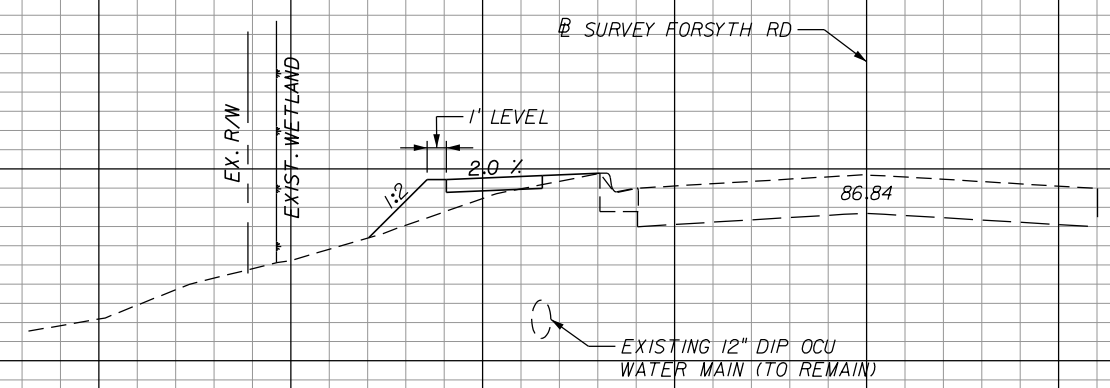
Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.0		28.3
0.0				5.7	
0.1					17.1
				3.6	

90
88
86
84
82
80
78



36+00.00

90
88
86
84
82
80



35+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

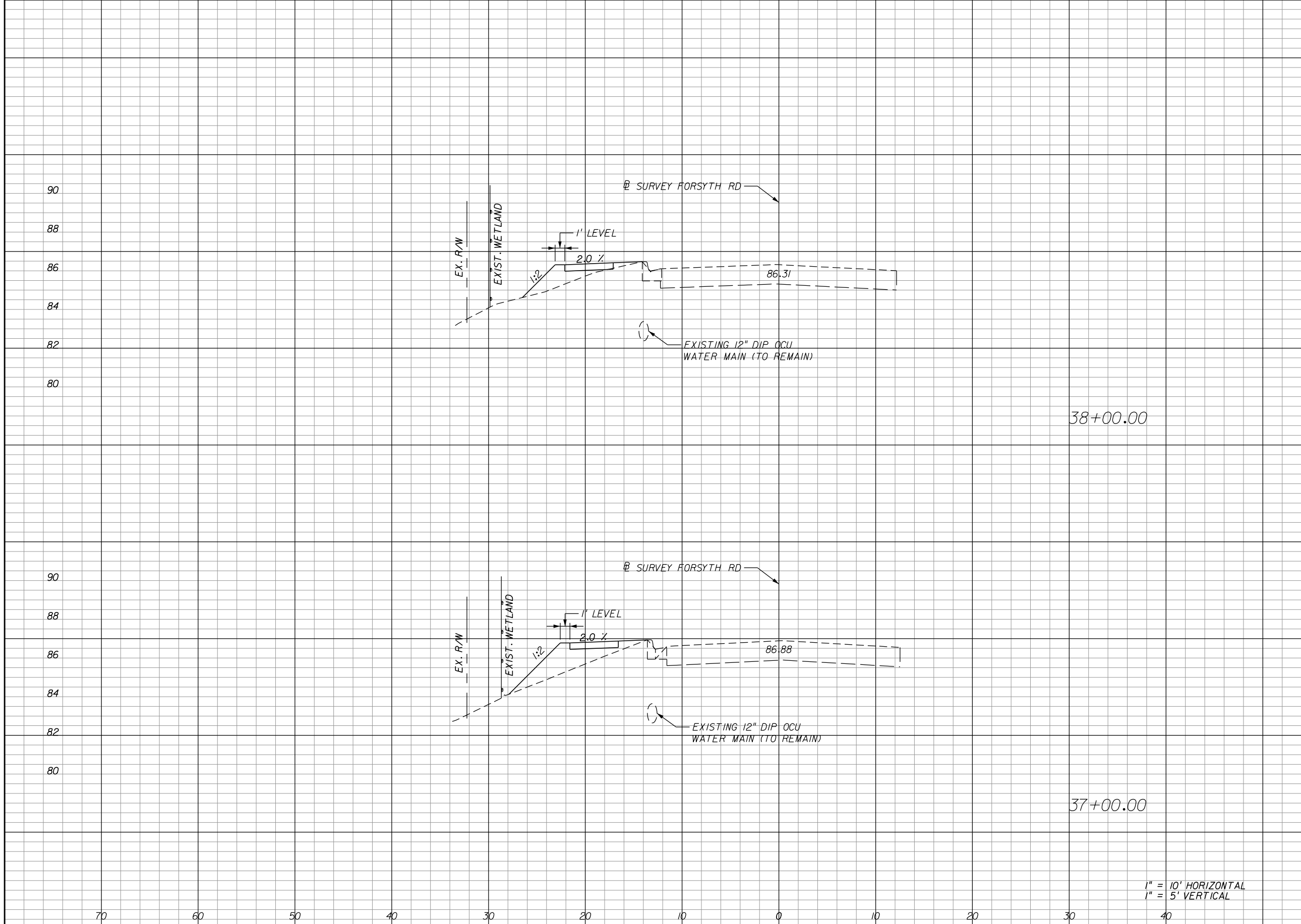
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 (407) 836-7900

FORSYTH ROAD
CROSS SECTIONS

SHEET NO.
34



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.4		15.1
0.0		5.0			
			0.0		27.0
0.0		9.7			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ INC.
 201 N. Magnolia Ave.
 Suite 200
 Orlando, FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
 Design & Engineering
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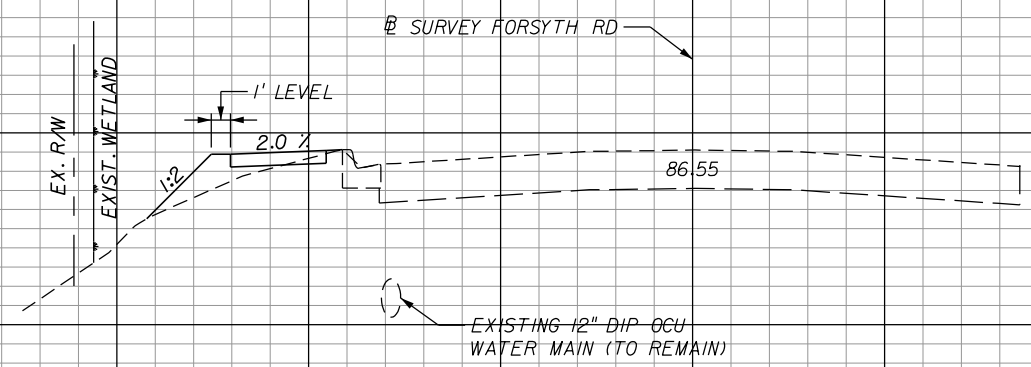
ORANGE COUNTY
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**FORSYTH ROAD
 CROSS SECTIONS**

SHEET NO.
 35

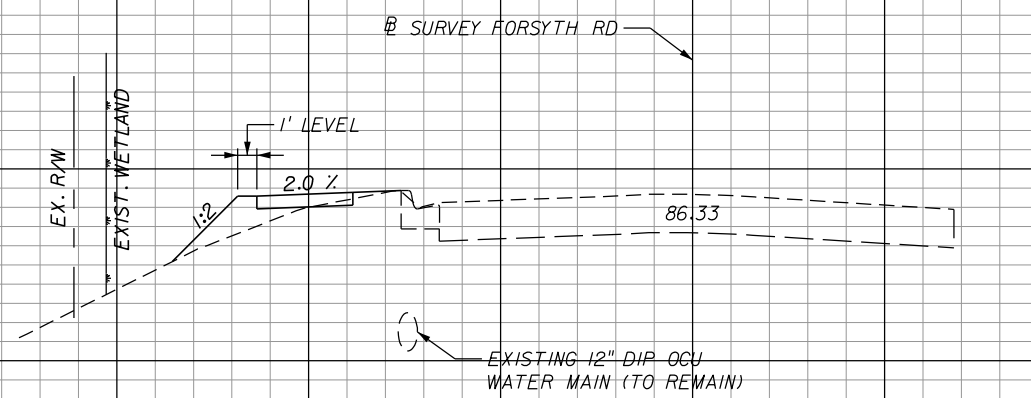
Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.5		11.0
0.3				2.9	
			0.8		11.2
0.2				3.2	

90
88
86
84
82
80
78



40+00.00

90
88
86
84
82
80



39+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
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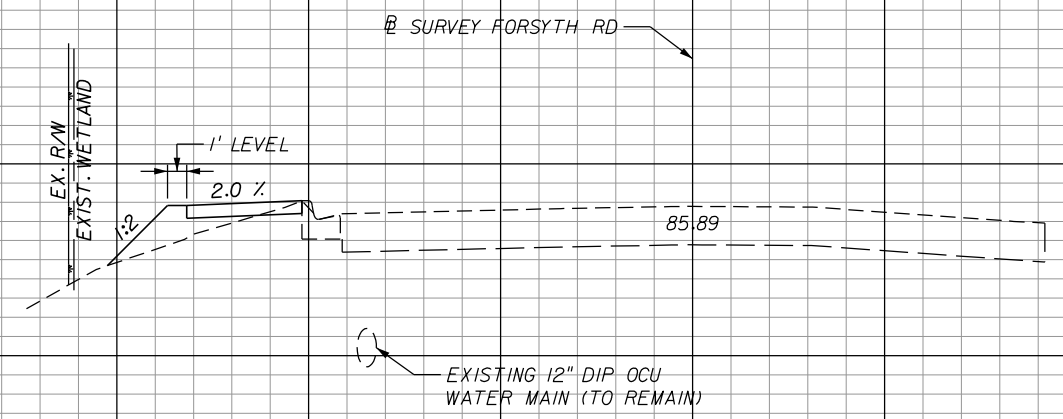
ORANGE COUNTY
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 (407) 836-7900

**FORSYTH ROAD
 CROSS SECTIONS**

SHEET NO.
36

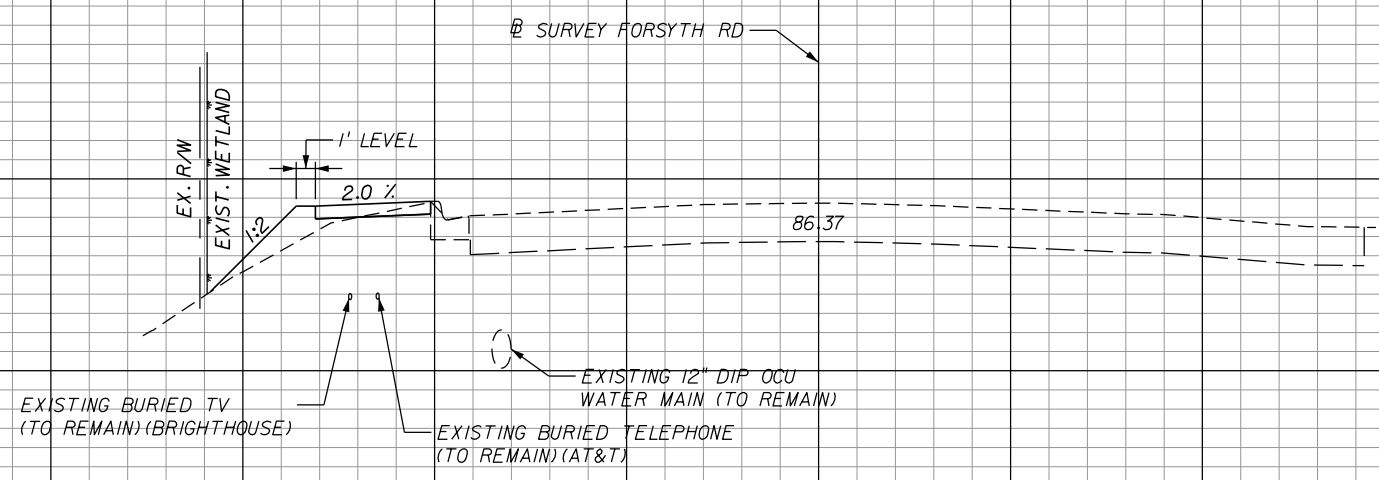
Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.5		13.0
0.4				3.5	
			1.7		12.1
0.6				3.1	

90
88
86
84
82
80



42+00.00

90
88
86
84
82
80



41+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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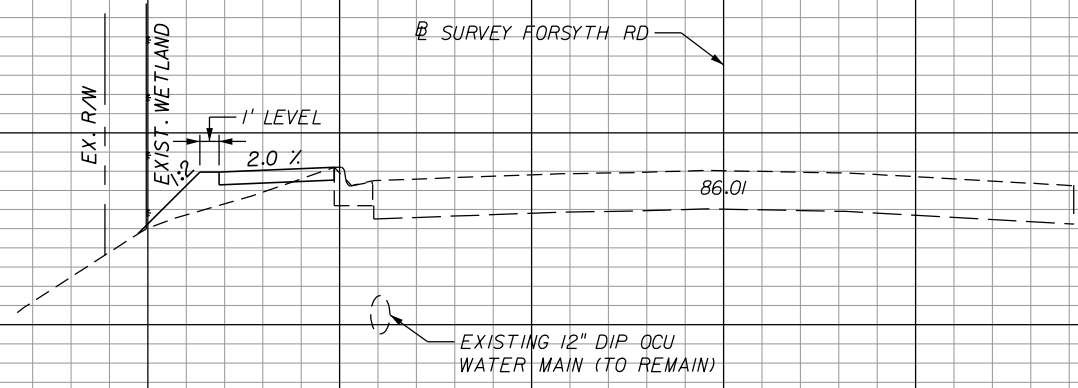
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**FORSYTH ROAD
 CROSS SECTIONS**

SHEET NO.
37

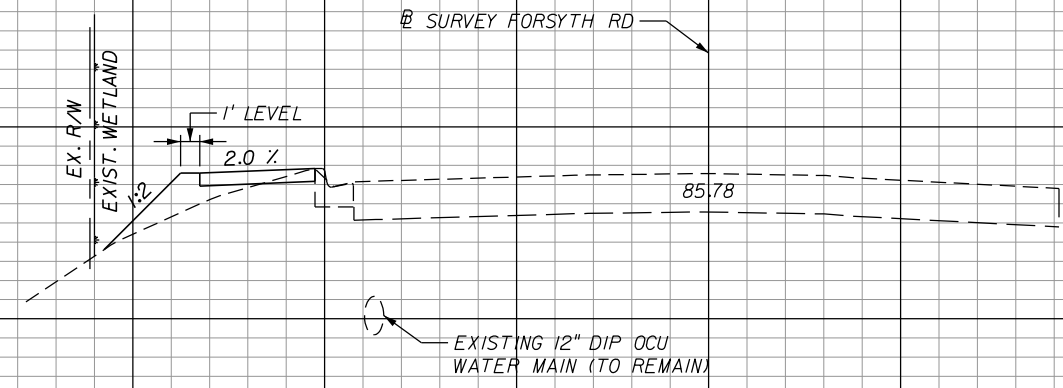
Regular		Exc.		Embankment	
A	V	A	V	A	V
			3.1		8.2
0.4		3.5			
			1.5		13.1
0.5		3.6			

90
88
86
84
82
80
78



44+00.00

90
88
86
84
82
80
78



43+00.00

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

70 60 50 40 30 20 10 0 10 20 30 40

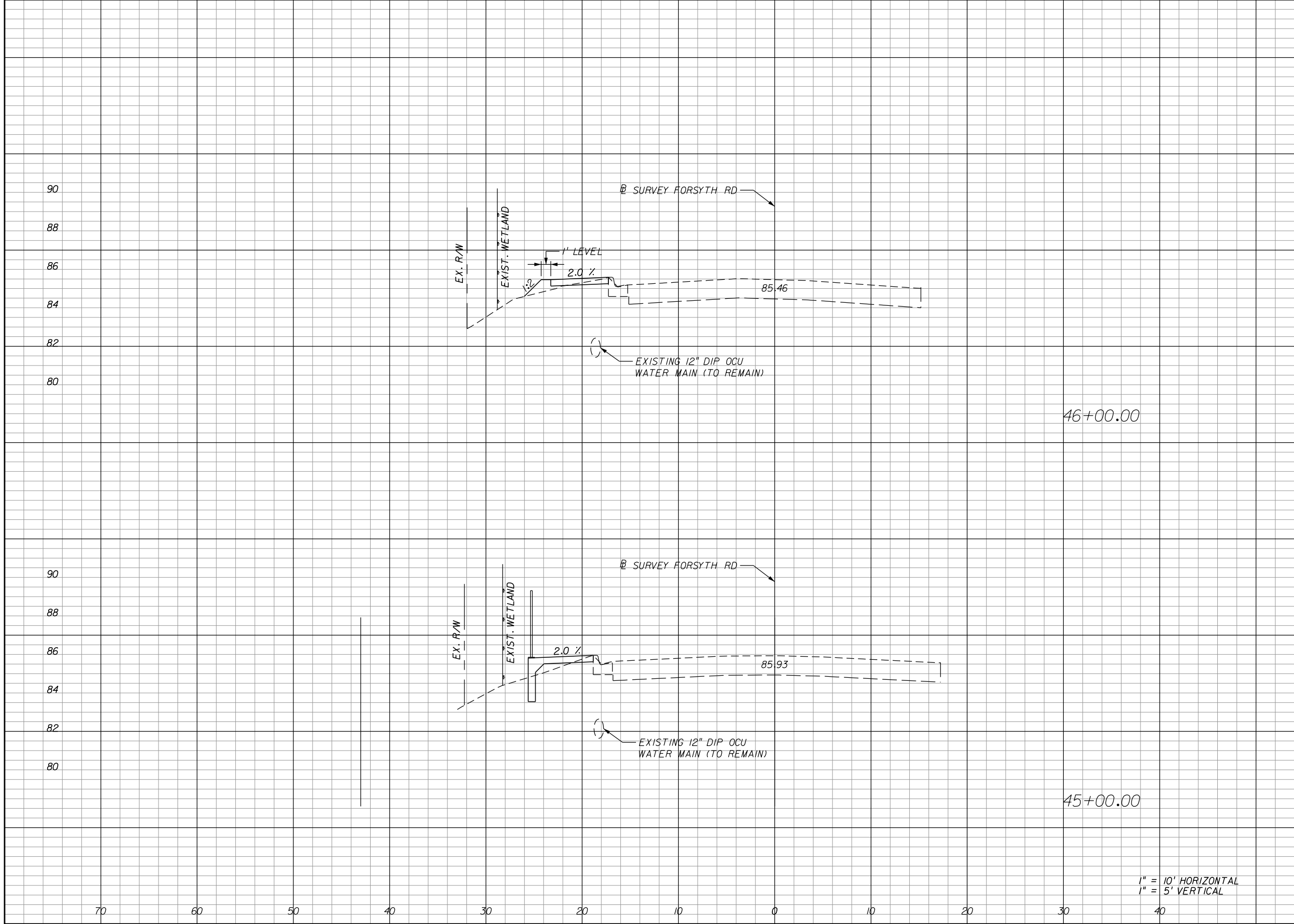
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD CROSS SECTIONS

SHEET NO.
38



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.8		4.2
0.7		1.4			
			3.7		4.3
1.4		1.0			

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

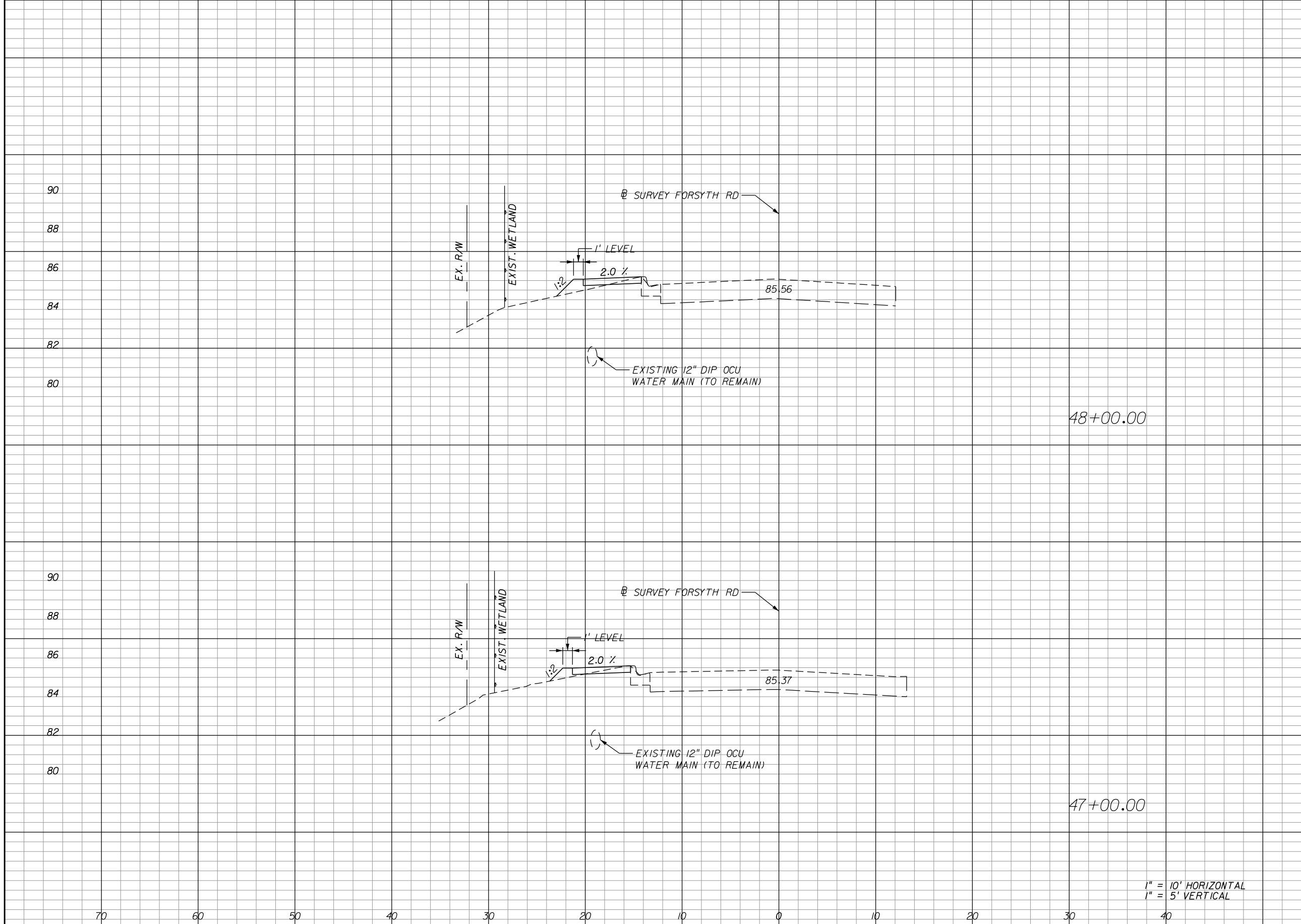
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ INC.
 201 N. Magnolia Ave.
 Suite 200
 Orlando, FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
 Design & Engineering
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

FORSYTH ROAD CROSS SECTIONS

SHEET NO.
39



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.5		5.6
0.6		1.6			
			2.7		4.6
0.9		0.9			

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

REVISIONS			
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FORSYTH ROAD CROSS SECTIONS

Regular		Exc.		Embankment	
A	V	A	V	A	V

90

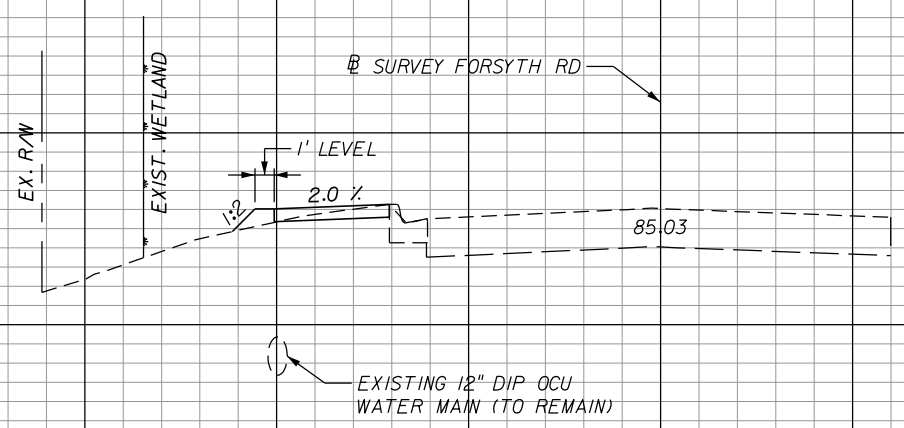
88

86

84

82

80



50+00.00

1.1

4.5

0.7

2.1

90

88

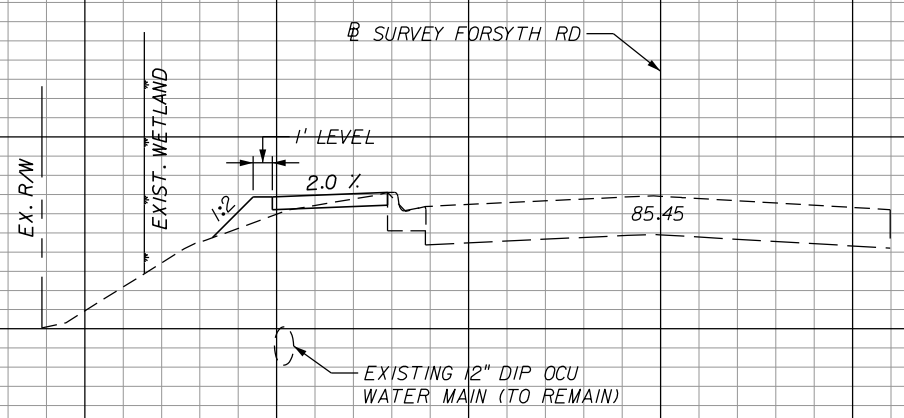
86

84

82

80

78



49+00.00

0.8

3.4

1.4

3.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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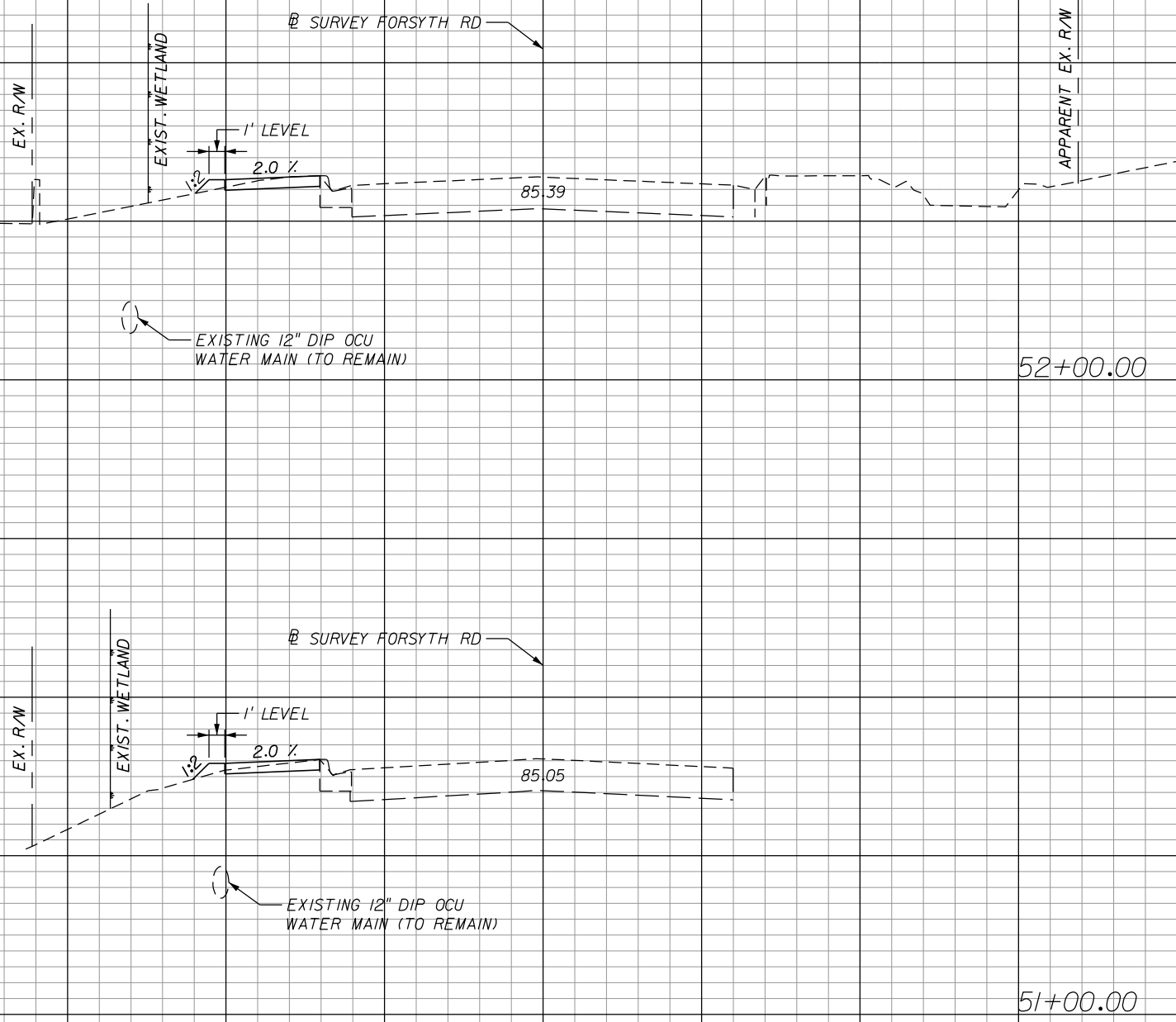
**FORSYTH ROAD
 CROSS SECTIONS**

SHEET NO.
41

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
REGULAR EXCAVATION	127	
EMBANKMENT	356	

END EARTHWORK
52+82.00

92
90
88
86
84
82
80
90
88
86
84
82
80
78



Regular	Exc.	Embankment	
		A	V
	0.0		0.0
1.6		0.5	
	5.5		1.8
1.4		0.5	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FORSYTH ROAD
CROSS SECTIONS

SHEET NO.
42

LEGEND



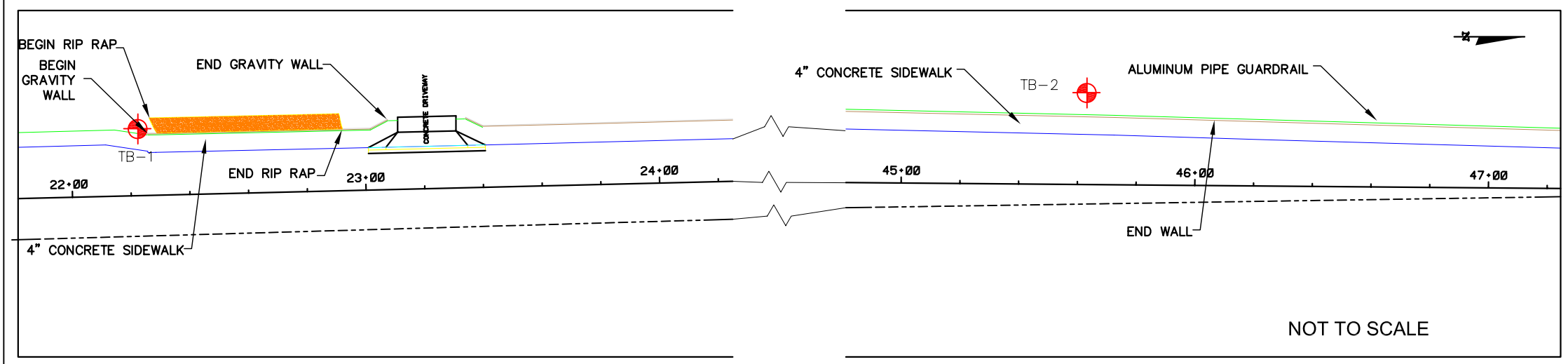
(SP) Unified soil classification group symbol
 W = Natural Moisture Content (%) (FM 1-T265)
 -200 = Percent passing no. 200 U.S. standard sieve (FM 1-T088)
 OC = Organic Content (%) (FM 1-T267)

Groundwater level on date shown (03/15/12)
 Estimated seasonal high groundwater level

N Standard Penetration Test Data
 Standard penetration resistance in blows per foot (18" spoon ASTM D-1586)
 Spoon Inside Diameter 1 3/8 in.
 Spoon Outside Diameter 2 in.
 ASTM Standard Drop Safety Hammer (Rope-Cathead)
 Average Hammer Drop 30 in.
 Hammer Weight 140 lbs.

NOTES

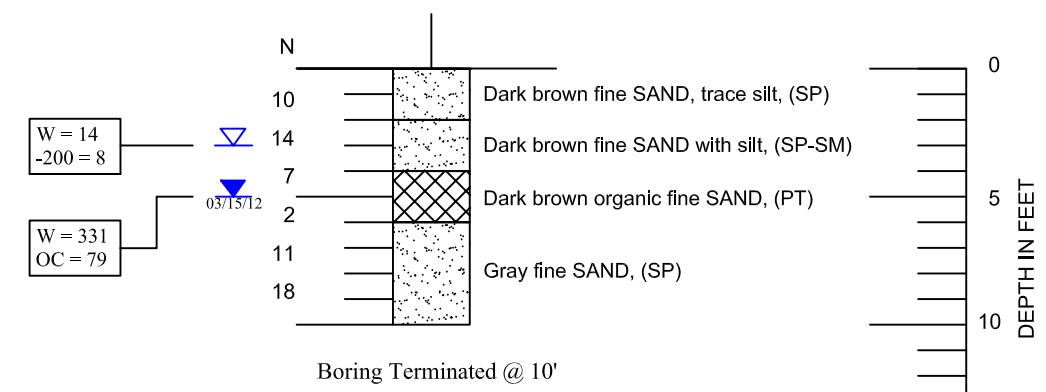
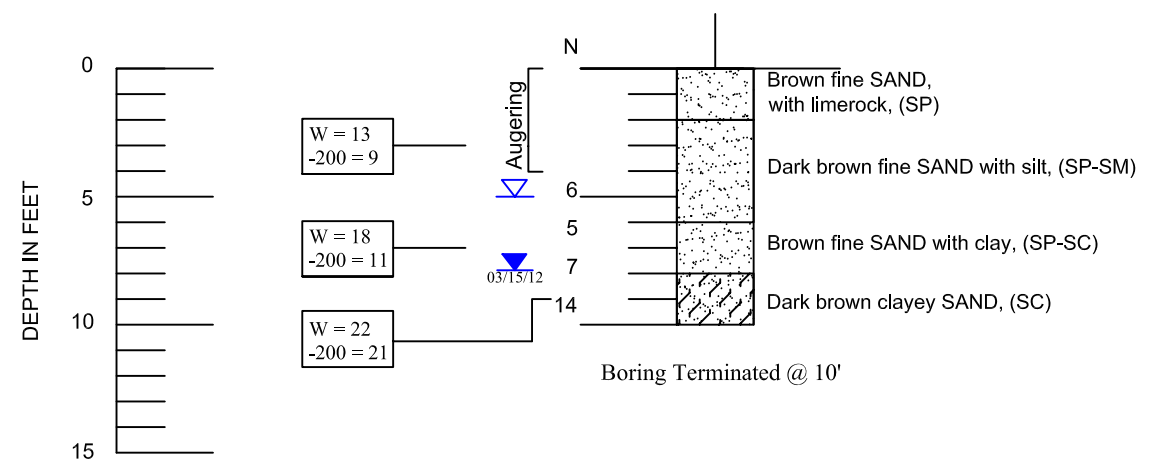
- Standard Penetration Test borings were performed in accordance with ASTM D-1586. Standard Penetration Resistance are shown on the borings at the test depths in blows per foot unless otherwise noticed
- Subsurface conditions shown on the boring do not represent conditions between boring locations. Actual conditions between the borings may vary from those shown.
- Unified Soil Classifications shown on the boring are based on visual examination and limited laboratory testing



NOT TO SCALE

Boring No: TB-1
 Approx. Station: 22+54.96
 Offset: 22.9' LT
 Date Drilled: 3/15/2012

Boring No: TB-2
 Approx. Station: 45+62.42
 Offset: 42.98' LT
 Date Drilled: 3/15/2012



GRANULAR MATERIALS	
RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Greater than 50
SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 2
Soft	2-4
Firm	4-8
Stiff	8-15
Very Stiff	15-30
Hard	Greater than 30

Z:\Roadways\Kenna\WBQ_Orange_Ct\SIDEWALK PROJECTS\Forsyth_Harrell Rd\Acad

REVISIONS					NAMES			DATES			ORANGE COUNTY PUBLIC WORKS DEPARTMENT			SHEET TITLE:		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	IAU	GNN	N/A	03-30-12	04-03-12	N/A	N/A	ROAD NO.	COUNTY	PROJECT NO.	REPORT OF SPT BORINGS
						Drawn by:	Checked by:	Designed by:					North Forsyth	ORANGE	R11021	PROJECT NAME: Forsyth Road Sidewalk - Turndown Walls
															SHEET NO. 43	

TRAFFIC CONTROL NOTES



1. TRAFFIC AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX 600 SERIES.

2. SIGNS SHALL FOLLOW THE FDOT DESIGN STANDARDS, INDEX 600 SERIES.

WORK ZONE SPEED SHALL BE THE EXISTING POSTED SPEED THROUGH ALL PHASES OF CONSTRUCTION.
- 40 MPH:

3. MAINTAIN BICYCLE AND PEDESTRIAN TRAFFIC ALONG FORSYTH RAD, HEATHER ROAD, CURTIS STREET, AND OLD CHENEY HIGHWAY DURING CONSTRUCTION ACTIVITIES.

4. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.

REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898  201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621 CERTIFICATE OF AUTHORIZATION NO. 6796	 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	TRAFFIC CONTROL GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				44