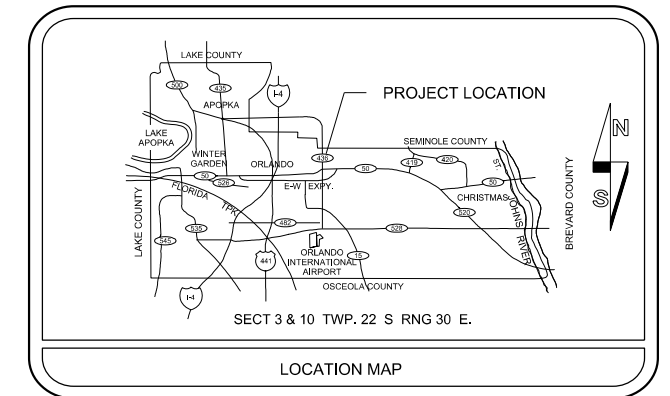


JERRY L. DEMINGS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

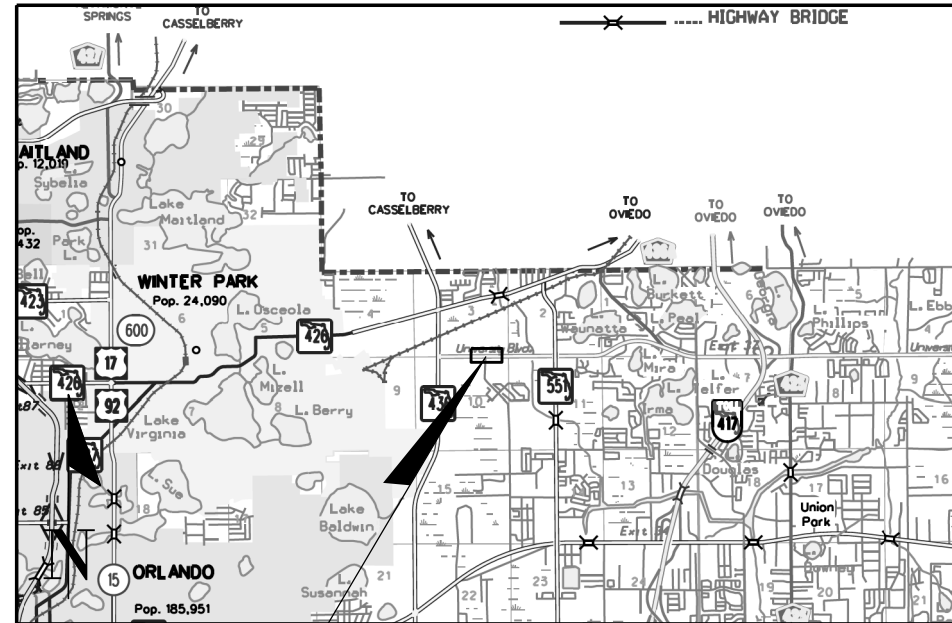
BETSY VANDERLEY DISTRICT 1  
 CHRISTINE MOORE DISTRICT 2  
 MAYRE URIBE DISTRICT 3  
 MARIBEL GOMEZ CORDERO DISTRICT 4  
**EMILY BONILLA DISTRICT 5**  
 VICTORIA P. SIPLIN DISTRICT 6  
 DIANA ALMODOVAR, P.E. INTERIM PUBLIC WORKS DIRECTOR

# CONSTRUCTION PLANS FOR INTERSECTION IMPROVEMENTS UNIVERSITY BLVD. AT FORSYTH RD. ORANGE COUNTY CIP NO. 2722 DISTRICT NO. 5 ORANGE COUNTY, FLORIDA



UTILITIES ENCOUNTERED	
COMPANY NAME	TELEPHONE NO.
ORANGE COUNTY UTILITIES	407-254-9706
CHARTER COMMUNICATIONS	407-215-5864
CITY OF WINTER PARK	407-599-3355
DUKE ENERGY	407-905-3376
CROWN CASTLE FIBER	407-461-3367
MCI	469-886-4238
ORANGE COUNTY PUBLIC WORKS	407-836-7804
SUMMIT BROADBAND	407-996-1183
TECO PEOPLES GAS-ORLANDO	407-420-6663
AT&T DISTRIBUTION	407-351-8180
SEMINOLE COUNTY	352-256-1524
COMCAST CABLEVISION	352-516-3824
CENTURYLINK	407-830-3359

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	KEY SHEET
2 - 3	GENERAL NOTES
4	SUMMARY OF PAY ITEMS & PAY ITEM NOTES
5	TYPICAL SECTION DETAILS
6	PLAN SHEET
7	INTERSECTION DETAIL
8	CURB RETURN PROFILES
9 - 10	TEMPORARY TRAFFIC CONTROL PLAN
11	UTILITY ADJUSTMENT SHEET
SQ-1 - SQ-2	SUMMARY OF QUANTITIES
1 - 3	SURVEY CONTROL SHEETS - D04-08
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T-1 - T-4	SIGNALIZATION PLANS



PROJECT LOCATION  
 UNIVERSITY BLVD AT FORSYTH RD.  
 STA. 12+62.39 TO STA. 15+28.20

VICINITY MAP  
 N.T.S.

ORANGE COUNTY BENCH MARKS USED	
SITE BENCHMARK C1043011: FOUND 2-1/4" ORANGE COUNTY CONTROL DISK IN THE TOP OF CURB INLET ON THE SOUTH SIDE OF UNIVERSITY BOULEVARD AND 275 FEET +/- WEST OF DRIGGS DRIVE AT THE NORTHWEST CORNER OF THE MCDONALDS PROPERTY. PUBLISHED ELEVATION = 88.368 FEET (NAVD88)	
SITE BENCHMARK L789010: FOUND A SQUARE CUT IN THE CENTERLINE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF UNIVERSITY BOULEVARD AND 600 FEET +/- WEST OF FORSYTH ROAD. PUBLISHED ELEVATION = 88.879 FEET (NAVD88)	

## LEGEND

EXIST. EDGE OF PAVT.	-----	CONCRETE	-----	UNREVEALED	-----
PROPOSED PAVEMENT	=====	RATE OF SUPERELEVATION	-----	TELEPHONE POLE	○
RIGHT OF WAY LINE	=====	TELEPHONE POLE	○	OVERHEAD TELEPHONE POLE	○
SEWER STORM INLET	⊠	BURIED POWER CABLE	—●—	TELEPHONE DUCT	—●—
SURVEY REFERENCE POINT	⊕	LIGHT POLE	○	GAS MAIN	—●—
POINT OF INTERSECTION	⊕	SANITARY SEWER	—●—	FIRE HYDRANT	⊕
BASE LINE	—●—	UNDERGROUND CABLE TELEVISION	—●—	OVERHEAD CABLE TELEVISION	—●—
CENTER LINE	—●—	CONCRETE MONUMENT	□	IRON ROD	○
PROPERTY LINE	—●—	IRON PIPE	○	BUSH	⊕
DELTA ANGLE	∠	GATE POST	⊕	TRAFFIC SIGN	⊕
APPROXIMATE	+/-	MAIL BOX	⊕	STORM SEWER, SIZE & TYPE	—●—
ROUND	○	CATCH BASIN	⊕	CLEAN OUT	⊕
CURB	=====	MANHOLE	⊕	FARM FENCE, WOVEN WIRE	—●—
CURB & GUTTER	=====	BARBED WIRE FENCE	—●—	CHAIN LINK FENCE	—●—
PVC PIP FENCE	=====	WOOD FENCE	—●—	TREE TYPE & SIZE	⊕
GATE	⊕	O = OAK	⊕	E = ELM	⊕
WATER METER	⊕	C = CAMPHOR	⊕	C = CEDER	⊕
VALVE	⊕	P = PINE	⊕	M = MAPLE	⊕
WATER MAIN	—●—				
COMBINATION POLE	⊕				
POWER POLE	⊕				
GUY WIRE	—●—				
OVERHEAD POWER POLE	—●—				
BURIED TELEPHONE CABLE	—●—				
TELEPHONE PEDESTAL	⊕				
BURIED TELEPHONE CABLE	—●—				
BENCHMARK	⊕				
SOIL BORING	⊕				
PALM TREE & SIZE	⊕				
SWALE FLOW LINE	—●—				
HEDGE	—●—				
EDGE OF WOODED AREA	—●—				

LENGTH OF PROJECT		
NAME	LINEAR FEET	MILES
UNIVERSITY BLVD	265.81	0.050

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 CHANGE 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: JUNE 2019 ENGINEER: JOSEPH C. KUNKEL PE NO.: 42629

PREPARED BY:  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 PHONE: (407) 896-0594  
 CERT. OF AUTH. # 2648

GOVERNING STANDARDS AND STANDARD SPECIFICATIONS :  
 FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION  
 AND  
 FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS	DATE	BY

DESIGNED BY: CD	DATE: APRIL 2019
CHECKED BY: AWS	DATE: APRIL 2019
APPROVED BY: JCK	DATE: APRIL 2019

SHEET 1  
 OF 11

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATIONS, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 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 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 110-200.
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. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
7. ALL PAVEMENT OFFSETS SHOWN ARE TO PROPOSED CENTERLINE OF CONSTRUCTION; ALL RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.
8. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE UNIT PRICES STATED ON THE SUMMARY OF PAY ITEMS; EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
9. 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.
10. 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.
11. UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
12. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 553 AND/ OR 556 OF THE FLORIDA STATUTES.
13. ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.
14. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
15. 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)
16. 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 No. 430 001 OR AS DIRECTED BY THE ENGINEER COST TO BE INCLUDED IN THE COST OF THE PIPE CULVERT.
17. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
18. 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.
19. 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.
20. 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.
21. 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
22. 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.
23. 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.
24. TO MEET ADA REQUIREMENTS, ALL SIDEWALK CONSTRUCTION SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
25. FOR PEDESTRIAN CURB CUT RAMPS DETAILS, REFER TO FDOT STANDARD INDEX 522-002 NOMENCLATURE SHOW IN THE PLANS REFERS TO THE RAMP TYPES IDENTIFIED IN INDEX 522-002.
26. 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 NO 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 THE UNIT PRICES STATED ON THE SUMMARY OF PAY ITEMS.
27. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISIONS 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.
28. 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 START OF CONSTRUCTION.
29. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND SIDEWALKS TO MATCH THE PROPOSED PAVEMENT TO THE EXISTING.
30. 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.
31. ALL CONCRETE SHALL BE MIN. OF 3,000 PSI.
32. NOTIFY THE ORANGE COUNTY TRAFFIC ENGINEERING OFFICE 48 HOUR ADVANCE NOTICE PRIOR TO STARTING WORK.
33. MAINTENANCE OF TRAFFIC WHILE WORKING WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE F.D.O.T. ROADWAY STANDARD 102-600 SERIES.
34. ANY DAMAGE CAUSED WITHIN RIGHT-OF-WAY OR FACILITIES DUE TO CONSTRUCTION ASSOCIATED WITH THIS PROJECT SHALL BE REPAIRED BY CONTRACTOR.
35. EXISTING UTILITIES ARE TO REMAIN UNLESS THEY ARE NOTED OTHERWISE IN THE UTILITY ADJUSTMENT SHEETS.
36. ALL SEDIMENT CONTROL DEVICES SHALL BE USED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.
37. CONSTRUCTION PLANS STATION/OFFSETS ARE BASED ON  $\frac{1}{4}$  OF SURVEY UNIVERSITY BLVD.

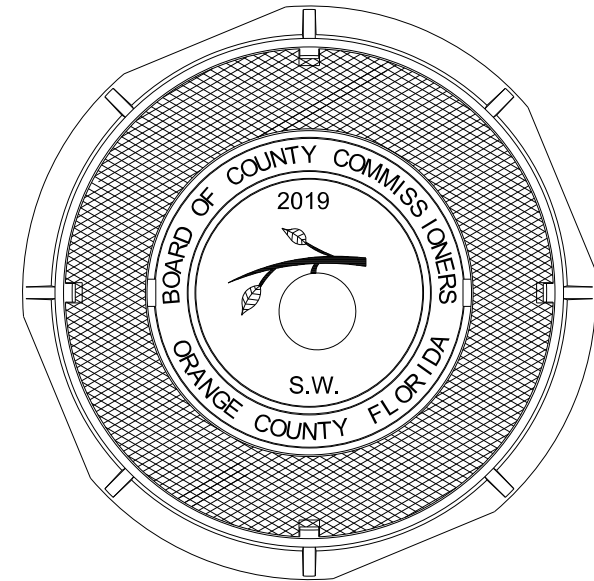
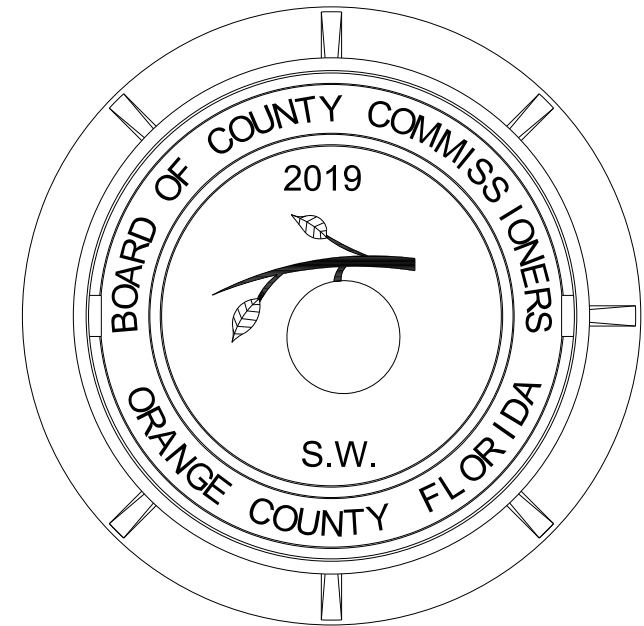
CAUTION:  
CHAPTERS 553 AND / OR 556 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS OR SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE GAS FACILITIES IS BY AN ON-SITE INSPECTION BY T.E.C.O. GAS SYSTEMS THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE US AT 407-425-4661 TWO WORKING DAYS BEFORE DIGGING IN A CONSTRUCTION AREA.

REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 JOSEPH C. KUNKEL, P.E. P.E. NO.: 42629	DESIGN PLANS FOR:		GENERAL NOTES (1)	SHEET NO.  2
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME	PROJECT NO.		
						UNIVERSITY BLVD AT FORSYTH RD	CIP-2722		

38. ALL MEASUREMENTS ARE IN ENGLISH UNLESS OTHERWISE SPECIFIED.
39. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMIT, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. THE LOCATION OF UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY, THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. THE CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES AND ANY UTILITY ADJUSTMENTS REQUIRED. UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION.

40. UTILITY CONTACTS ARE AS FOLLOWS:

- |  |  |
|--|--|
| <p>A. CHARTER COMMUNICATIONS<br/>RONALD TYNES<br/>3767 ALL AMERICAN BLVD.<br/>ORLANDO, FL 32810<br/>(407) 215-5864<br/>marvin.usryjr@charter.com</p> <p>B. CITY OF WINTER PARK<br/>JASON RIEGLER<br/>401 S PARK AVE.<br/>WINTER PARK, FL 32789<br/>(407) 599-3355</p> <p>C. DUKE ENERGY<br/>STEPHANIE OLMO<br/>452 E CROWN POINT RD.<br/>WINTER GARDEN, FL 34787<br/>(407) 905-3376</p> <p>D. CROWN CASTLE FIBER<br/>VICTOR CORTORREAL<br/>9250 W FLAGLER ST.<br/>MIAMI, FL 33174<br/>(407) 461-3367</p> <p>E. MCI<br/>DEAN BOYERS<br/>400 INTERNATIONAL PKWY<br/>RICHARDSON, TX 75081<br/>(469) 886-4238</p> <p>F. ORANGE COUNTY UTILITIES<br/>CRISTINA CROSBY<br/>201 S ROSALIND AVE.<br/>ORLANDO, FL 32801<br/>(407) 254-9706</p> <p>G. ORANGE COUNTY PUBLIC WORKS TRAFFIC ENGINEERING<br/>ROGER SMITH<br/>4200 S JOHN YOUNG PKWY.<br/>ORLANDO, FL 32839<br/>(407) 836-7804</p> <p>H. SUMMIT BROADBAND<br/>MICHELLE DANIEL<br/>4558 SW 35TH ST.<br/>ORLANDO, FL 32839<br/>(407) 996-1183</p> <p>I. TECO PEOPLES GAS-ORLANDO<br/>SEAN WINSOR<br/>8416 PALM RIVER RD.<br/>TAMPA, FL 33619<br/>(407) 420-6663</p> <p>J. AT&amp;T DISTRIBUTION<br/>ALAN REYNOLDS<br/>1120 ROGERS CIR.<br/>BOCA RATON, FL 33487<br/>(407) 351-8180</p> <p>K. SEMINOLE COUNTY<br/>DAVE MCBROOM<br/>500 WEST LAKE MARY BLVD.<br/>SANFORD, FL 32773<br/>(352) 256-1524</p> <p>L. COMCAST CABLEVISION<br/>DWAYNE MILLER<br/>8130 CR 44 LEG A<br/>LEESBURG, FL 34788<br/>(352) 516-3824</p> | <p>M. CENTURYLINK<br/>MARLON BROWN<br/>952 1ST ST. ROOM 103<br/>ALTAMONTE SPRINGS, FL 32701<br/>(407) 830-3359</p> |
|--|--|



## STANDARD MANHOLE COVER

N.T.S.

REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 JOSEPH C. KUNKEL, P.E. P.E. NO.: 42629	DESIGN PLANS FOR:		GENERAL NOTES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME	PROJECT NO.		3
						UNIVERSITY BLVD AT FORSYTH RD	CIP-2722		

**SUMMARY OF PAY ITEMS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QTY.
<i>ROADWAY AND DRAINAGE</i>			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-14	PREVENTION, CONTROL AND ABATMENT OF EROSION AND WATER POLLUTION	LS	1
110-1-1	CLEARING AND GRUBBING	LS	1
120-9	EXCAVATION, EMBANKMENT, AND GRADING	LS	1
285-713	OPTIONAL BASE GROUP 13 ( 8" TYPE B-12.5 ONLY) (BLACK BASE)	SY	159
327-70-6	MILLING EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)	SY	4258
334-2-25	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C) (2.5") (SP-12.5)	SY	102
337-7-83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, SP-12.5 (1.5") (PG 76-22)	SY	4360
520-1-10	CONCRETE CURB AND GUTTER, TYPE F	LF	341
522-1	CONCRETE SIDEWALK, 4" THICK (INCLUDES COMPACTION)	SY	343
527-2	DETECTABLE WARNINGS (ON WALKING SURFACES)	SF	51
570-1-1	PERFORMANCE TURF (MATCH EXISTING)	SY	112
900-1	AS-BUILT PLANS	LS	1
900-2	INDEMNIFICATION	LS	1
<i>SIGNALIZATION</i>			
603-1	SIGNALIZATION	LS	1
<i>SIGNING AND PAVEMENT MARKINGS</i>			
700-1-50	SINGLE POST SIGN, RELOCATE	AS	3
706-3A	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE/RED	EA	42
706-3B	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW/YELLOW	EA	20
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS	1
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	842
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	996
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 EXTENSION LINE, 6"	LF	538
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA	9
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	21
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	LF	812
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	LF	133
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	LF	361


**PAY ITEM NOTES:**

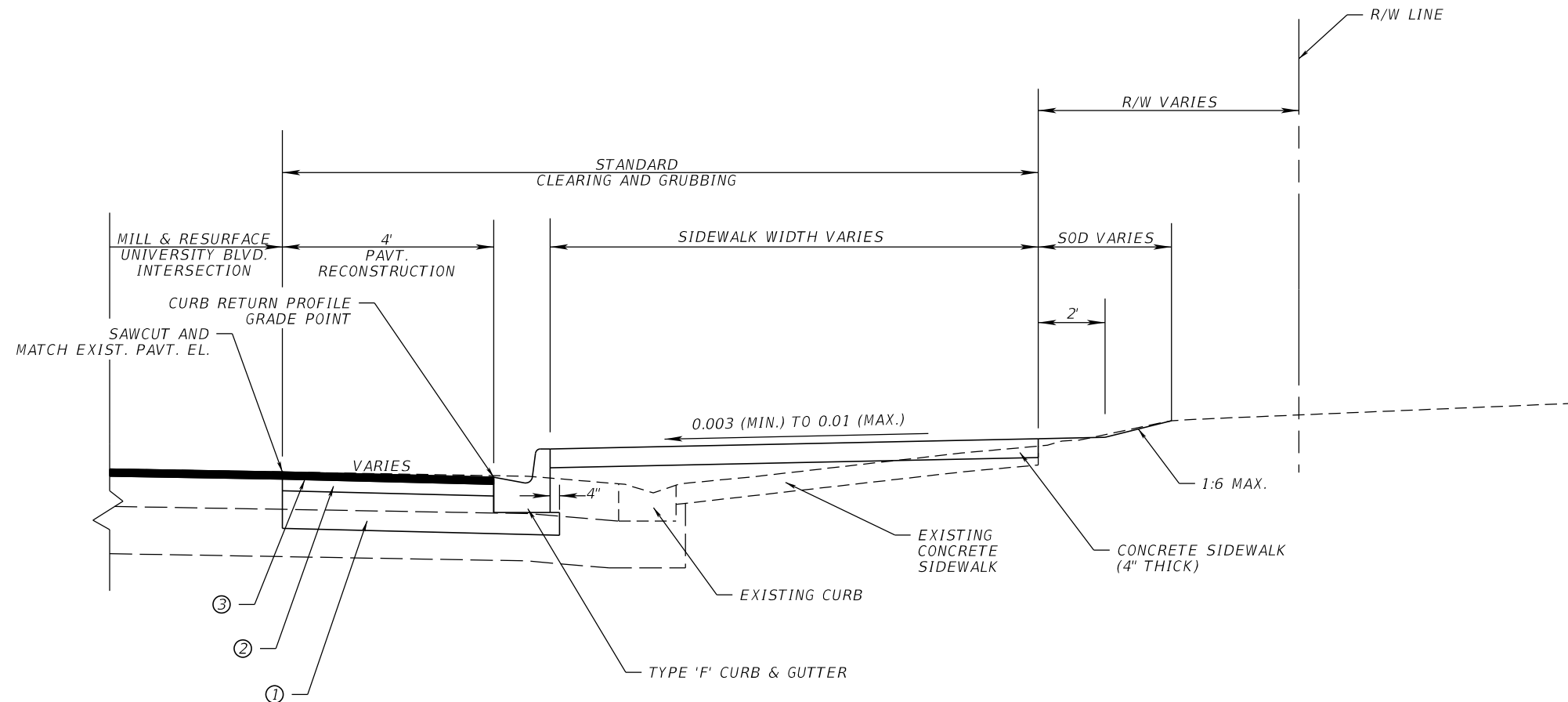
102 -1 INCLUDES COST OF ALL ITEMS ASSOCIATED WITH PROVIDING AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL PLAN AS SHOWN IN THESE PLANS AND FDOT STANDARD PLANS 102-600.

104 -14 INCLUDES COST OF ALL ITEMS FOR EROSION CONTROL. THIS INCLUDES BUT IS NOT LIMITED TO, SEDIMENT BARRIER, INLET PROTECTION SYSTEMS, TURBIDITY BARRIERS, TEMPORARY GRASSING & DESILTING OF EXISTING DRAINAGE PIPES AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

110-1-1 INCLUDES, BUT IS NOT LIMITED TO, THE COST OF REMOVAL AND DISPOSAL OF CURB, CURB & GUTTER, TRAFFIC SEPARATOR, SIDEWALK AND FULL DEPTH ASPHALT AND BASE COURSE. PAY ITEM ALSO ACCOUNTS FOR GROUND SURFACE STRIPPING TO A MINIMUM DEPTH OF ONE FOOT WITHIN ALL PAVEMENT WIDENING AND SOIL GRADING LIMITS.

570-1-1 INCLUDES THE COST OF MOWING, WATERING AND FERTILIZING.

<b>REVISIONS</b>				 <b>ORANGE COUNTY GOVERNMENT FLORIDA</b>	DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 JOSEPH C. KUNKEL, P.E. P.E. NO.: 42629	<b>DESIGN PLANS FOR:</b>		<b>SUMMARY OF PAY ITEMS AND PAY ITEM NOTES</b>	SHEET NO.		
DATE	DESCRIPTION	DATE	DESCRIPTION			<b>INTERSECTION IMPROVEMENTS</b>			PROJECT NAME UNIVERSITY BLVD AT FORSYTH RD	PROJECT NO. CIP-2722	4



**CURB RETURN TYPICAL DETAILS  
UNIVERSITY BLVD AT FORSYTH RD  
NW AND NE QUADRANTS  
N.T.S.**

**TRAFFIC DATA**

CURRENT YEAR 2017 AADT = 40,977  
 K = 8.4% D = 5.8%  
 PEAK HOUR VOLUME = 3,454  
 POSTED SPEED = 45 MPH  
 DESIGN SPEED = 50 MPH

**MILLING**

MILL EXIST. ASPHALT  
 PAVEMENT FOR DEPTH (1 1/2")

**RESURFACING**

③ FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**WIDENING**

- ① OPTIONAL BASE GROUP 13 (8" TYPE B-12.5 ONLY) (BLACK BASE) WITH
- ② TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2") (SP-12.5)
- ③ AND FRICTION COURSE FC-12.5 TRAFFIC C (1 1/2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

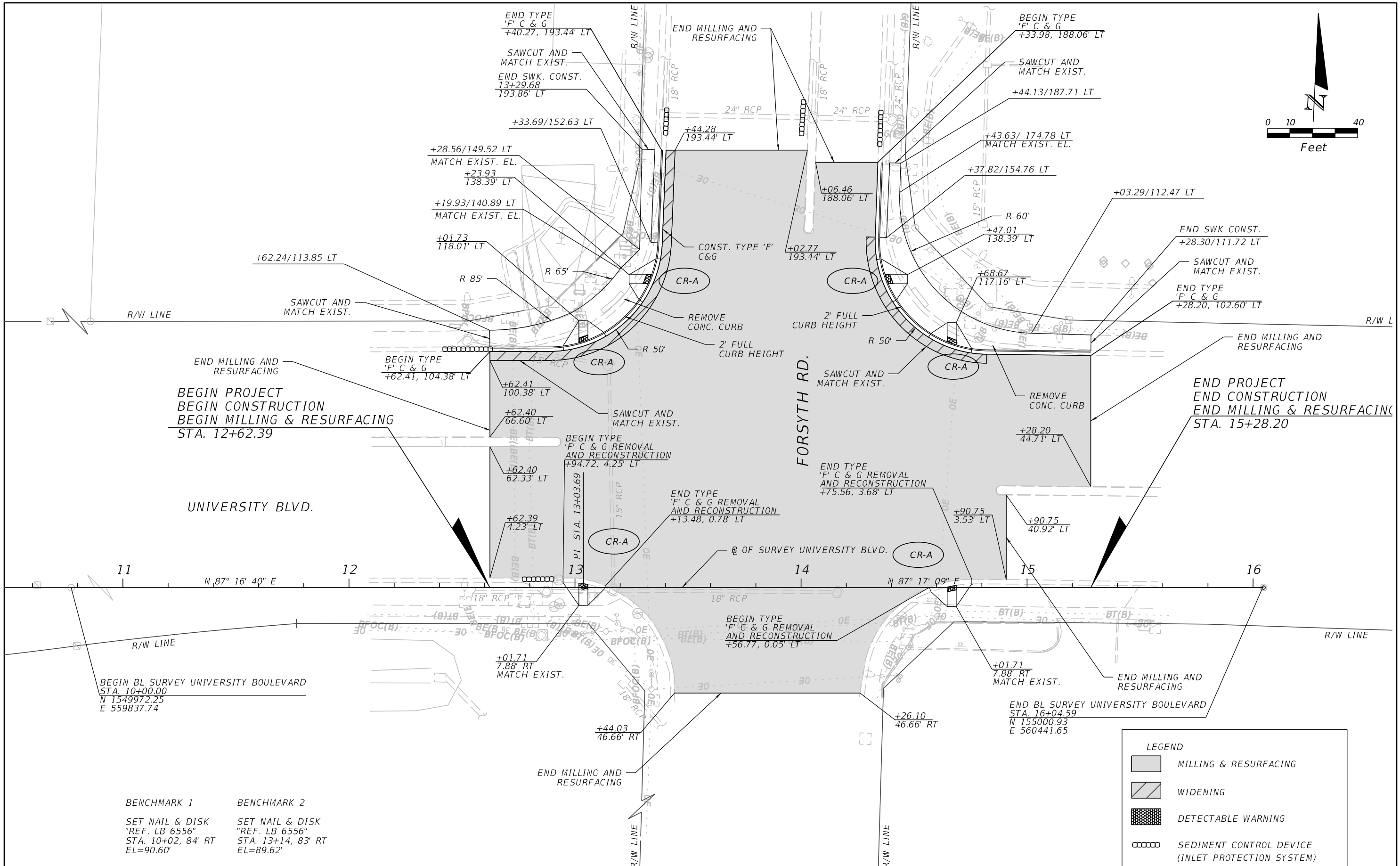
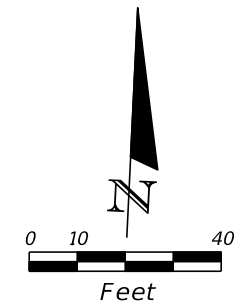


DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 CERT. OF AUTH.: 2648  
 JOSEPH C. KUNKEL, P.E.  
 P.E. NO.: 42629

DESIGN PLANS FOR: <b>INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME UNIVERSITY BLVD AT FORSYTH RD	PROJECT NO. CIP-2722

**TYPICAL SECTION DETAILS**

SHEET NO.  
**5**



BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 BEGIN MILLING & RESURFACING  
 STA. 12+62.39

END PROJECT  
 END CONSTRUCTION  
 END MILLING & RESURFACING  
 STA. 15+28.20

BEGIN BL SURVEY UNIVERSITY BOULEVARD  
 STA. 10+00.00  
 N 1549972.25  
 E 559837.74

END BL SURVEY UNIVERSITY BOULEVARD  
 STA. 16+04.59  
 N 155000.93  
 E 560441.65

BENCHMARK 1      BENCHMARK 2  
 SET NAIL & DISK      SET NAIL & DISK  
 "REF. LB 6556"      "REF. LB 6556"  
 STA. 10+02, 84' RT      STA. 13+14, 83' RT  
 EL=90.60'      EL=89.62'

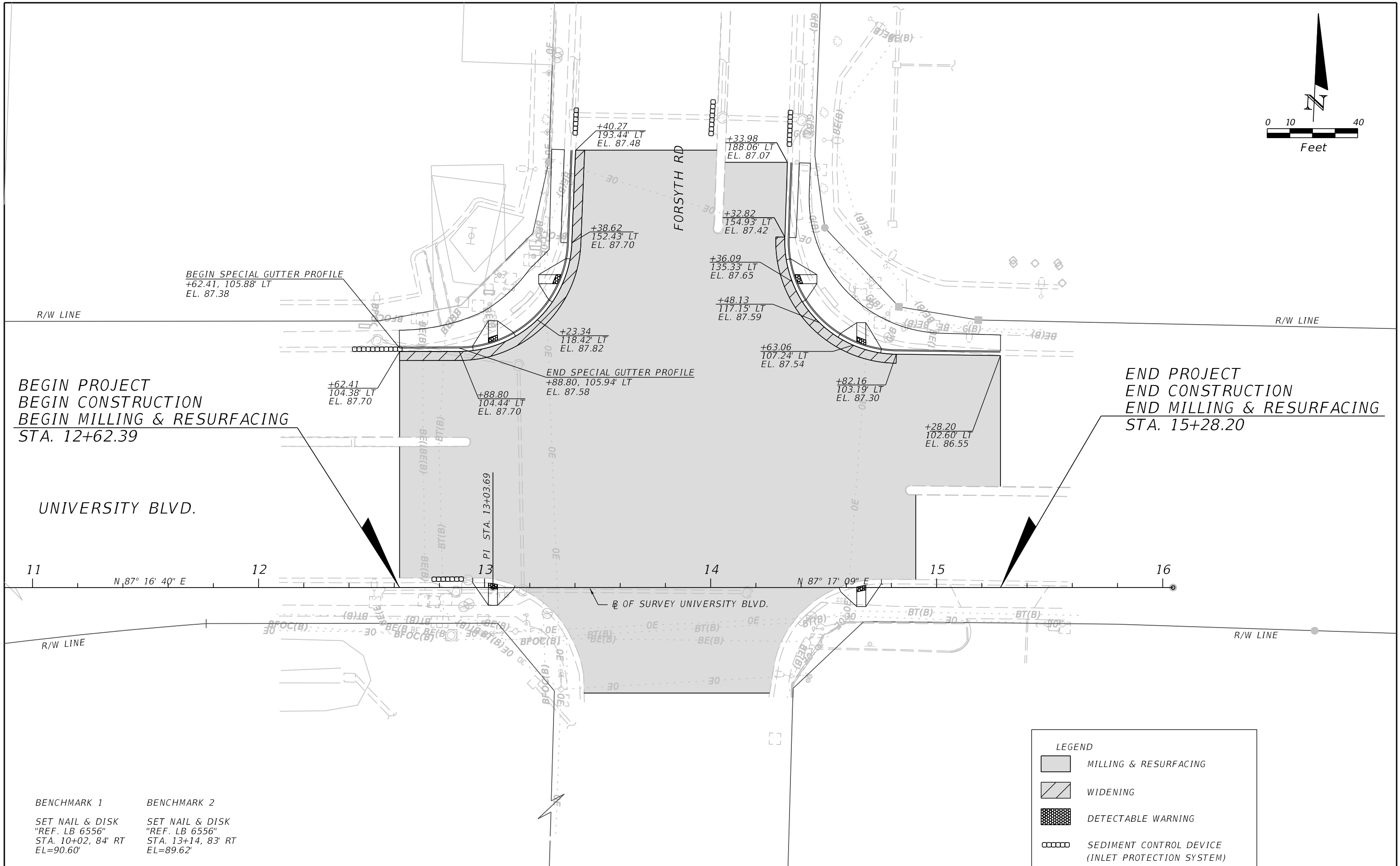
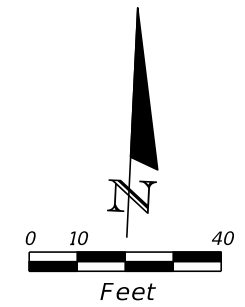
LEGEND	
	MILLING & RESURFACING
	WIDENING
	DETECTABLE WARNING
	SEDIMENT CONTROL DEVICE (INLET PROTECTION SYSTEM)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ORANGE COUNTY**  
 FLORIDA  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 CERT. OF AUTH.: 2648  
 JOSEPH C. KUNKEL, P.E.  
 P.E. NO.: 42629

DESIGN PLANS FOR:	
<b>INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME	PROJECT NO.
UNIVERSITY BLVD AT FORSYTH RD	CIP-2722

<b>PLAN SHEET</b>		SHEET NO. <b>6</b>
-------------------	--	--------------------------



BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 BEGIN MILLING & RESURFACING  
 STA. 12+62.39

END PROJECT  
 END CONSTRUCTION  
 END MILLING & RESURFACING  
 STA. 15+28.20

UNIVERSITY BLVD.

FORSYTH RD

11      12      13      14      15      16

N 87° 16' 40" E      N 87° 17' 09" E

BENCHMARK 1      BENCHMARK 2  
 SET NAIL & DISK      SET NAIL & DISK  
 "REF. LB 6556"      "REF. LB 6556"  
 STA. 10+02, 84' RT      STA. 13+14, 83' RT  
 EL=90.60'      EL=89.62'

LEGEND	
	MILLING & RESURFACING
	WIDENING
	DETECTABLE WARNING
	SEDIMENT CONTROL DEVICE (INLET PROTECTION SYSTEM)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

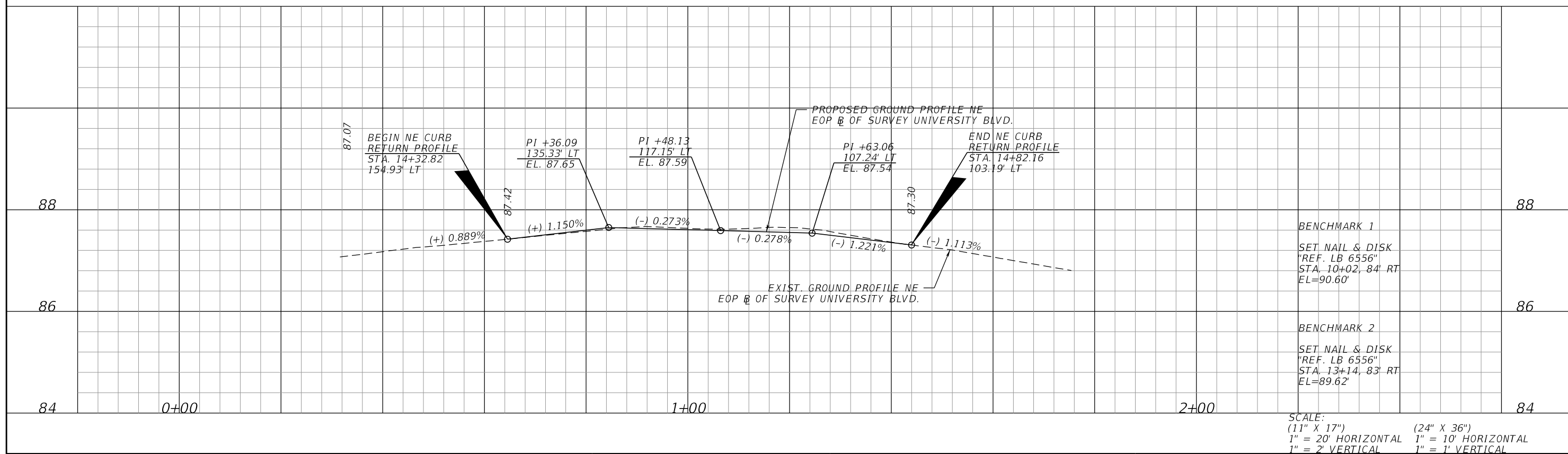
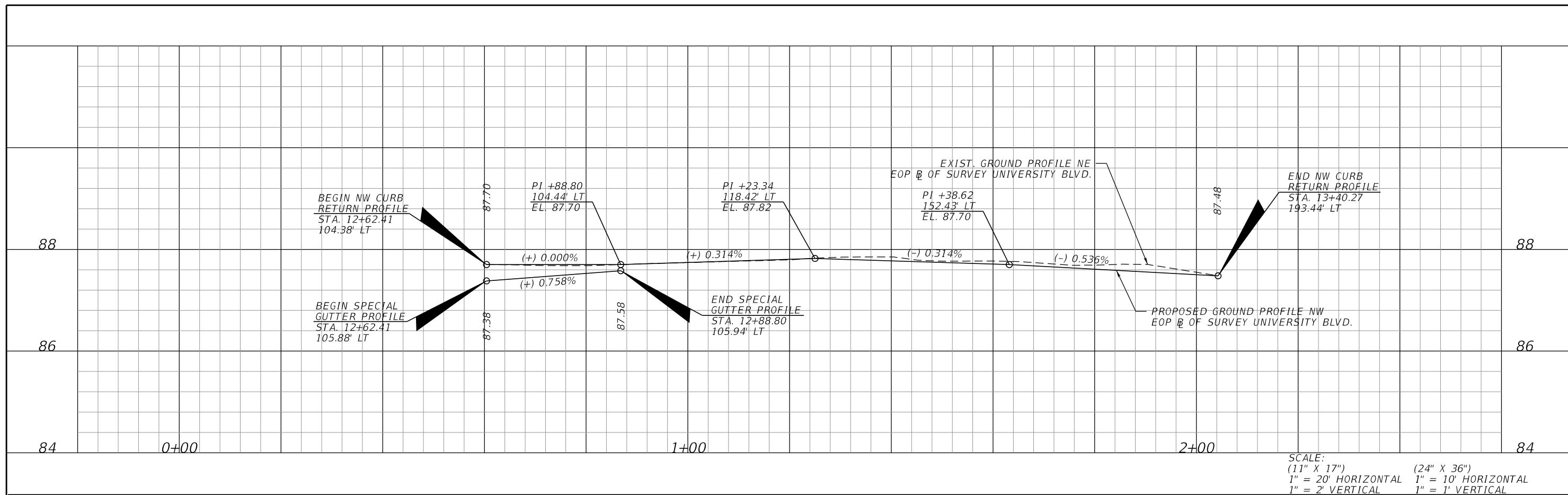
**ORANGE COUNTY**  
 FLORIDA

DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 CERT. OF AUTH.: 2648  
 JOSEPH C. KUNKEL, P.E.  
 P.E. NO.: 42629

DESIGN PLANS FOR:	
<b>INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME	PROJECT NO.
UNIVERSITY BLVD AT FORSYTH RD	CIP-2722

**INTERSECTION DETAIL**

SHEET NO.  
 7



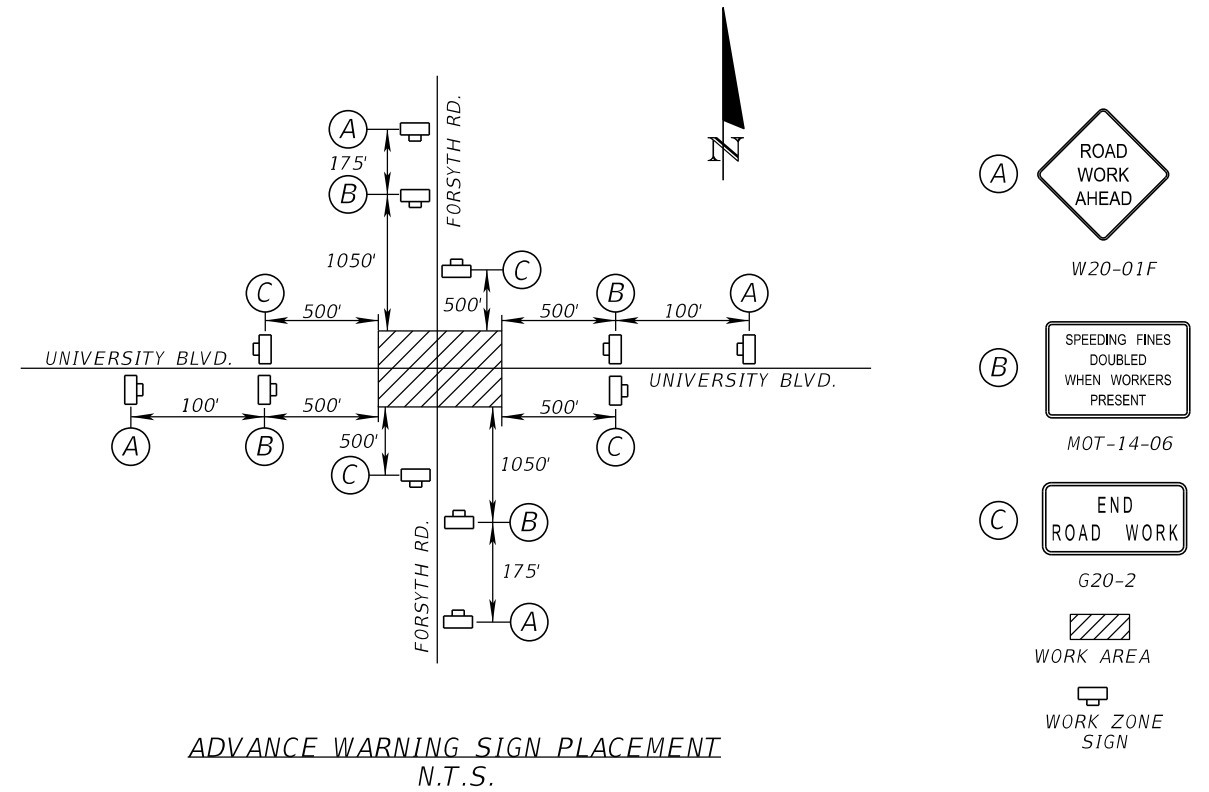
REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 JOSEPH C. KUNKEL, P.E. P.E. NO.: 42629	DESIGN PLANS FOR: INTERSECTION IMPROVEMENTS		CURET RETURN PROFILES	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME UNIVERSITY BLVD FORSYTH RD	PROJECT NO. CIP-2722		



**TEMPORARY TRAFFIC CONTROL GENERAL NOTES:**

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FY 2018-19.
2. CONTRACTOR SHALL CONTACT ORANGE COUNTY ONE (1) WEEK PRIOR TO THE START OF ANY PHASE OF WORK TO REQUEST STREET, LANE OR SIDEWALK CLOSURE AUTHORIZATION.  
LANES CLOSURES ARE NOT ALLOWED DURING THE FOLLOWING TIMES:  
MON. - FRI.: 7:00 AM TO 8:00 PM  
LANE CLOSURES WILL NOT BE PERMISSIBLE DURING SPECIAL EVENTS INCLUDING BUT NOT LIMITED TO: HOLIDAYS AND SEVERE WEATHER CONDITIONS.  
NIGHT WORK REQUIRING A FLAGGER WILL REQUIRE TEMPORARY LIGHTING TO BE INSTALLED.  
THE CONTRACTOR SHALL PROVIDE A UNIFORMED OFF-DUTY LAW ENFORCEMENT OFFICER(S) FOR ALL NIGHT WORK WITHIN THE INTERSECTION CONSTRUCTION LIMITS. COST TO BE INCLUDED IN PAY ITEM 102-1.  
NIGHT TIME LANE CLOSURES REQUIRE AN ORANGE COUNTY SHERIFF DEPUTY PRESENT IN A MARKED CAR.
3. LOCAL RESIDENT AL/BLUISHNESS ACCESS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR MUST PROVIDE WRITTEN NOTIFICATION TO THE RESIDENT AL/BLUISHNESS AFFECTED BY THE CONSTRUCTION ACTIVITIES, ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION. THE CONTRACTOR MUST PROVIDE COPIES OF THE NOTIFICATION TO THE TRAFFIC CONTROL MANAGER PRIOR TO DISTRIBUTION.
4. ORANGE COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLANS BASED UPON CHANGING TRAFFIC CONDITIONS.
5. ANY CHANGES MADE TO THE TRAFFIC CONTROL PLAN BY THE CONTRACTOR, MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED AND REGISTERED IN THE STATE OF FLORIDA AND APPROVED BY THE COUNTY PRIOR TO IMPLEMENTATION.
6. THE NUMBER OF DEVICES SHOWN ON THESE PLANS ARE FOR ILLUSTRATION PURPOSES. ADDITIONAL DEVICES MY BE REQUIRED TO PROPERLY PROTECT THE WORKERS AND WORK ZONE FROM VEHICULAR TRAFFIC.
7. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE NEW OR LIKE NEW CONDITION. ALL SIGNS MUST BE POST MOUNTED UNLESS OTHERWISE INDICATED.
8. DURING NON -WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN THE CLEAR ZONE OR A ROADWAY OPEN TO VEHICULAR TRAFFIC.
9. EXISTING REGULATORY AND WARNING SIGNS ARE TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED. ALL EXISTING SIGNS IN CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING A CONSTRUCTION PHASE SHALL BE COVERED AS NECESSARY. THE CONTRACTOR SHALL MAINTAIN AND RELOCATE EXISTING ROADWAY SIGNS, AS CONDITIONS WARRANT IN EACH PHASE, THROUGHOUT THE DURATION OF THE CONSTRUCTION. THE COST OF THESE SIGNING OPERATIONS IS TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM.
10. PEDESTRIAN TRAFFIC MUST BE MAINTAINED THROUGHOUT THE INTERSECTION. IF UNABLE TO MAINTAIN PEDESTRIAN TRAFFIC THE CONTRACTOR MUST PROVIDE TEMPORARY WALKING PATH THAT MEETS ADA STANDARDS. PAYMENT IS TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM.
11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING EACH EMPLOYEE SUPERVISING THE SELECTION AND PLACEMENT OF THE TEMPORARY TRAFFIC CONTROL (TTC) DEVICES MUST BE PROPERLY TRAINED BY ATTENDING AND SUCCESSFULLY COMPLETING A FDOT APPROVED TTC (MAINTENANCE OF TRAFFIC) COURSE. THE TRAINING MUST BE AT A LEVEL APPLICABLE TO THE EMPLOYEE'S LEVEL OF INVOLVEMENT. COPIES OF CERTIFICATIONS SHALL BE PROVIDED TO ORANGE COUNTY PRIOR TO IMPLEMENTING ANY PHASE OF TTC.
12. THE CONTRACTOR MUST PROVIDE A TRAFFIC CONTROL SUPERVISOR (TCS) WHO IS RESPONSIBLE FOR INITIATING, INSTALLING AND MAINTAINING ALL TRAFFIC CONTROL WITHIN THE PROJECT LIMITS.
13. THE TCS SHALL BE AVAILABLE ON A 24-HOUR PER DAY BASIS, PARTICIPATE IN ALL CHANGES TO TRAFFIC CONTROL AND REVIEW THE PROJECT ON A DAY TO DAY BASIS. THE TCS MUST BE AVAILABLE WITHIN 45 MINUTES TO NOTIFICATION OF AN EMERGENCY SITUATION AND IS PREPARED TO RESPOND TO AND CORRECT THE TRAFFIC CONTROL OR PROVIDED ALTERNATIVE ARRANGEMENTS FOR CORRECTIVE ACTIONS.
14. THE TCS SHALL BE PRESENT DURING THE INITIAL SETUP OF THE TRAFFIC CONTROL PLANS AND ALL SUBSEQUENT PHASES OR CHANGES TO THE TRAFFIC CONTROL.
15. THE TCS SHALL BE RESPONSIBLE FOR PERFORMING WEEKLY, DAY TIME AND NIGHT TIME INSPECTIONS OF ALL TRAFFIC CONTROL DEVICES, TRAFFIC FLOW, PEDESTRIAN, AND BICYCLIST MOVEMENT THROUGH OUT THE WORK AREA AND BUSINESS ACCOMMODATIONS.
16. ORANGE COUNTY MAY DISQUALIFY AND REMOVE FROM THE PROJECT A TCS THAT FAILS TO COMPLY WITH THESE PROVISIONS. ORANGE COUNTY MAY ALSO SUSPEND ALL WORK ACTIVITIES UNTIL CORRECTIVE ACTIONS HAVE BEEN COMPLETED.
17. THE CONTRACTOR SHALL EITHER BACK FILL OR COVER BY AN APPROVED METHOD ANY OPEN TRENCHES AT THE END OF EACH WORK PERIOD.

18. THE CONTRACTOR SHALL REPLACE ANY VEHICLE DETECTION LOOPS DAMAGED DURING CONSTRUCTION, AS PER THE ORIGINAL CONTRACT PLANS.
19. MODIFICATIONS TO OR RELOCATIONS OF SIGNALS SHALL BE THE CONTRACTORS RESPONSIBILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE MODIFICATIONS OR RELOCATION DURING EACH PHASE OF CONSTRUCTION. PAYMENT FOR ALL SIGNAL HEAD RELOCATIONS, MODIFICATIONS, AND TEMPORARY SIGNALIZATION SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM. CONTRACTOR SHALL COORDINATE WITH THE COUNTY TRAFFIC ENGINEER PRIOR TO RELOCATION/ADJUSTMENT FOR APPROVAL.
20. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES FOR THE ENTIRE PROJECT.
21. CHANNELIZING DEVICES ERECTED ALONG SIDE STREETS, BUSINESS DRIVEWAYS AND RESIDENT AL DRIVEWAYS SHALL BE SPACED AT 10' CENTER TO CENTER ALONG THE RETURN RADIUS UNLESS OTHERWISE NOTED.
22. STOP SIGNS ALONG SIDE STREETS AND/OR DRIVEWAYS SHALL BE MAINTAINED AND RELOCATED AS REQUIRED BY THE CONSTRUCTION PHASING.
23. AT NIGHT ONLY DRUMS WITH LIGHTS SHALL BE USED FOR CHANNELIZING DEVICES.



REVISIONS				DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 COLETTE F. MOSS, P.E. P.E. NO.: 48263	DESIGN PLANS FOR:		<b>TEMPORARY TRAFFIC CONTROL PLAN (1)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT NO.		9
					UNIVERSITY BLVD AT FORSYTH RD	CIP-2722		

TEMPORARY TRAFFIC CONTROL  
PHASING NOTES:

1. INSTALL ALL EROSION CONTROL ITEMS.
2. PLACE ADVANCE WARNING SIGNS

**PHASE I**

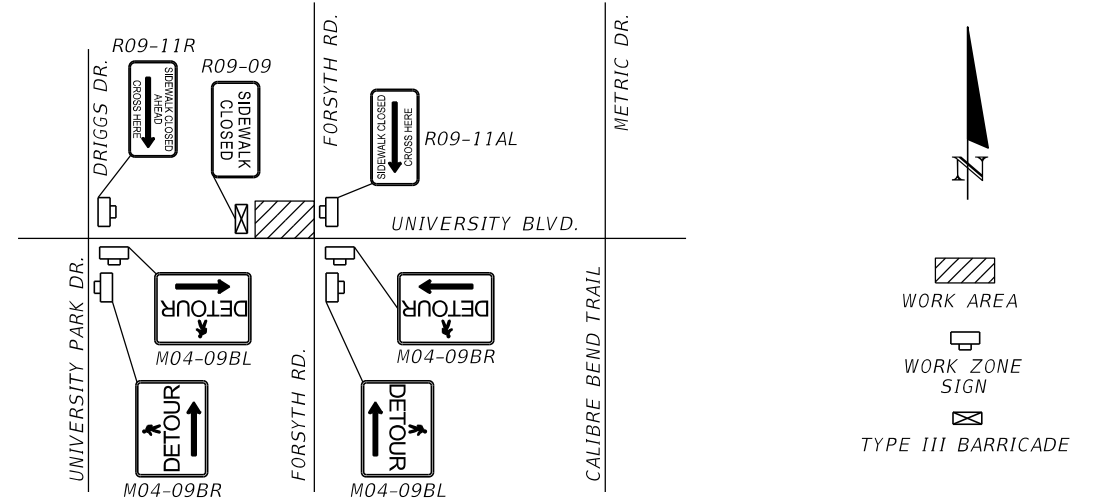
1. UTILIZE FDOT STANDARD PLANS INDEX 102-616.
2. CLOSE SIDEWALK THAT LEADS TO WORK AREA, PER STANDARD PLANS INDEX 102-660; IMPLEMENT CROSSWALK AND PEDESTRIAN DETOUR.
3. RECONSTRUCT PAVEMENT, CURB RETURN AND SIGNAL IMPROVEMENTS.
4. TO MAINTAIN PEDESTRIAN PATHWAY AND LIMIT TRAFFIC CONGESTION, CONSTRUCT ONLY ONE QUADRANT OF THE INTERSECTION AT A TIME.

**PHASE II**

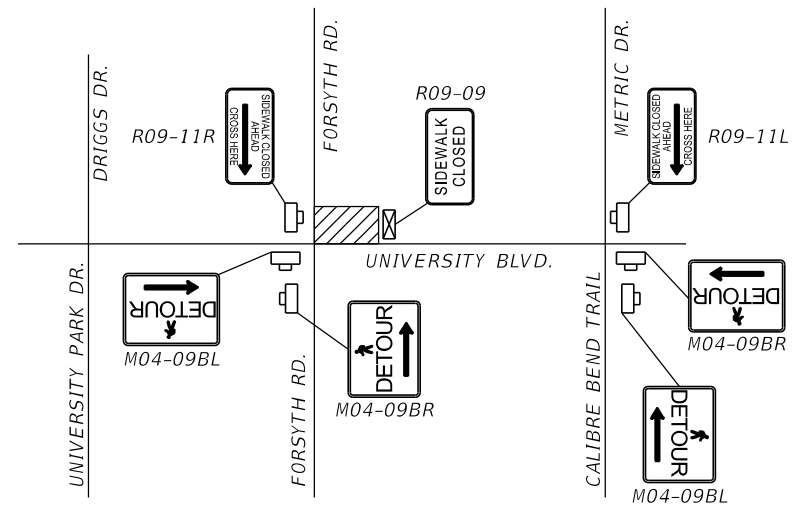
1. UTILIZE FDOT STANDARD PLANS INDEX 102-616.
2. CLOSE SIDEWALK THAT LEADS TO WORK AREA, PER STANDARD PLANS INDEX 102-660; IMPLEMENT CROSSWALK AND PEDESTRIAN DETOUR.
3. RECONSTRUCT PAVEMENT, CURB RETURN AND SIGNAL IMPROVEMENTS.
4. TO MAINTAIN PEDESTRIAN PATHWAY AND LIMIT TRAFFIC CONGESTION, CONSTRUCT ONLY ONE QUADRANT OF THE INTERSECTION AT A TIME.

**PHASE III**

1. UTILIZE FDOT STANDARD PLANS INDEXES 102-615, 102-616 AND 102-617.
2. MILL AND RESURFACE, PLACE PAVEMENT MARKINGS AND SIGNS, AND PLACE ABOVE GROUND SIGNAL EQUIPMENT.

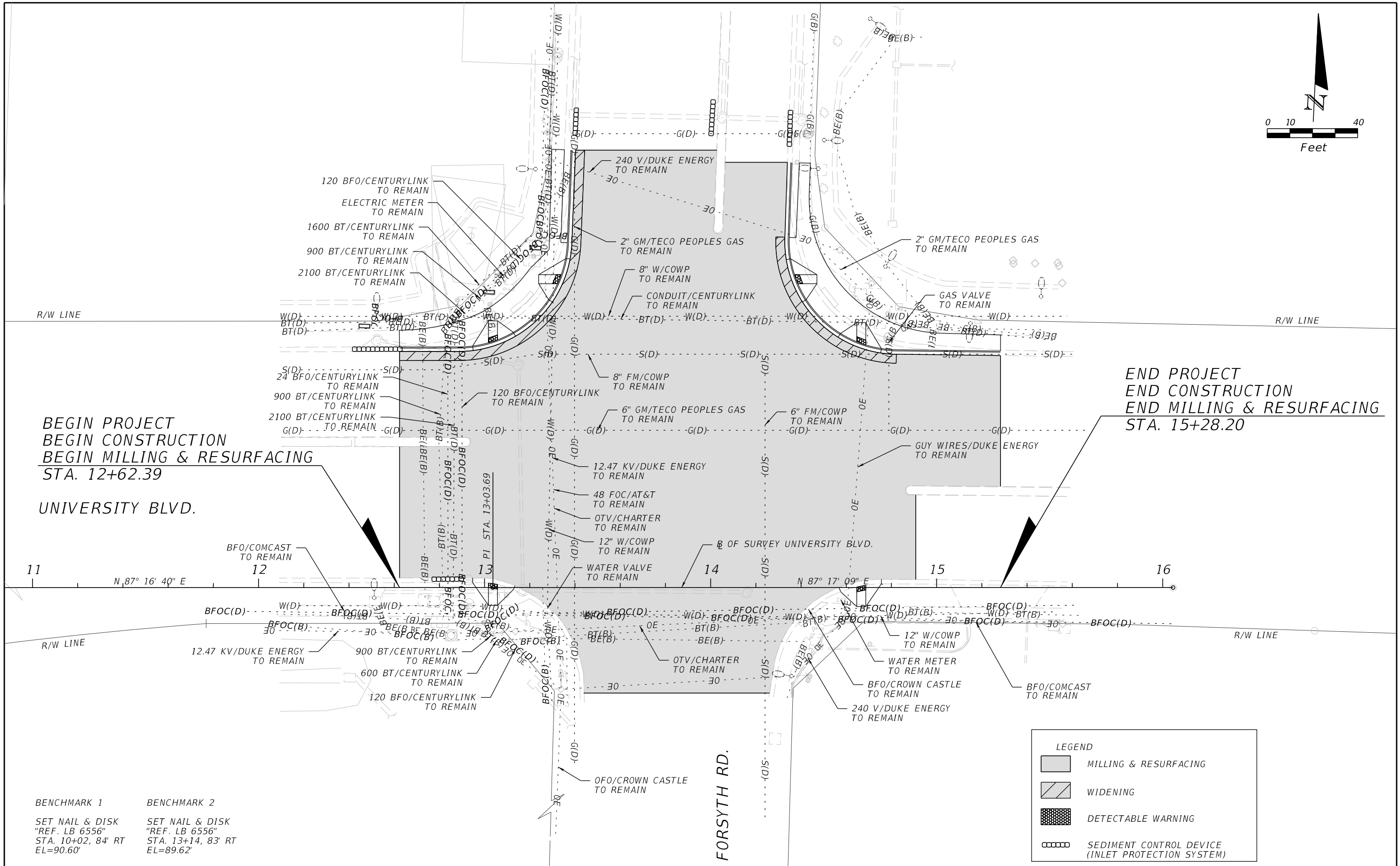
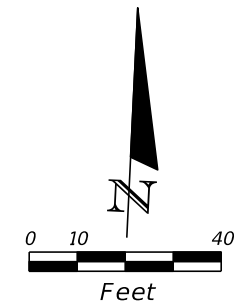


PEDESTRIAN DETOUR PLAN FOR NW QUADRANT  
N.T.S.  
MIRROR FOR SW QUADRANT



PEDESTRIAN DETOUR PLAN FOR NE QUADRANT  
N.T.S.  
MIRROR FOR SE QUADRANT

REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 COLETTE F. MOSS, P.E. P.E. NO.: 48263	DESIGN PLANS FOR:		TEMPORARY TRAFFIC CONTROL PLAN (2)	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME	PROJECT NO.		
						UNIVERSITY BLVD AT FORSYTH RD	CIP-2722		



BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 BEGIN MILLING & RESURFACING  
 STA. 12+62.39

END PROJECT  
 END CONSTRUCTION  
 END MILLING & RESURFACING  
 STA. 15+28.20

UNIVERSITY BLVD.

FORSYTH RD.

BENCHMARK 1      BENCHMARK 2  
 SET NAIL & DISK      SET NAIL & DISK  
 "REF. LB 6556"      "REF. LB 6556"  
 STA. 10+02, 84' RT      STA. 13+14, 83' RT  
 EL=90.60'      EL=89.62'

LEGEND	
	MILLING & RESURFACING
	WIDENING
	DETECTABLE WARNING
	SEDIMENT CONTROL DEVICE (INLET PROTECTION SYSTEM)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ORANGE COUNTY**  
 FLORIDA  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 CERT. OF AUTH.: 2648  
 JOSEPH C. KUNKEL, P.E.  
 P.E. NO.: 42629

DESIGN PLANS FOR:	
INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
UNIVERSITY BLVD AT FORSYTH RD	CIP-2722


**UTILITY ADJUSTMENT SHEET**

SHEET NO.  
 11

SUMMARY OF LUMP SUM ITEMS							
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F	P	F		
101-1	MOBILIZATION	1		1			
102-1	MAINTENANCE OF TRAFFIC	1		1			
104-14	PREVENTION, CONTROL AND ABATMENT OF EROSION AND WATER POLLUTION	1		1			
110-1-1	CLEARING AND GRUBBING	1		1			
120-9	EXCAVATION, EMBANKMENT, AND GRADING	1		1			
900-1	AS-BUILT PLANS	1		1			
900-2	INDEMNIFICATION	1		1			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	LS		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120 9	EXCAVATION, EMBANKMENT AND GRADING	1		LUMP SUM	
	REGULAR EXCAVATION	98 CY			
	EMBANKMENT	6 CY			

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
285 713	OPTIONAL BASE GROUP 13, (8.0") (TYPE B-12.5 ONLY)(BLACK BASE)	12+62.41 to 13+44.28		LT	3089	SY	102.2		159		TYPE B-12.5	
		14+28.83 to 14+82.16		LT	3098		57.0				TYPE B-12.5	
09327 70 6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	12+62.39 to 15+28.20		LT/RT	3630	SY	4257.5		4258			
09334 2 25	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-12.5, 2.5"	12+62.41 to 13+44.28		LT	3843	SY	65.3		102		D=2.5"	
		14+28.83 to 14+82.16		LT	3852		36.8				D=2.5"	
09337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22, 1.5"	12+62.39 to 15+28.20		LT/RT	4085	SY	4359.7		4360		D=1.5"	

REVISIONS				 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 JOSEPH C. KUNKEL, P.E. P.E. NO.: 42629	DESIGN PLANS FOR:		<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT NO.		SQ-1
					UNIVERSITY BLVD AT FORSYTH RD	CIP-2722		

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

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.					GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
		TYPE	LENGTH					P	F						
520 1 10	CONCRETE CURB & GUTTER, TYPE F	12+62.41 to 13+40.27		LT		LF	143.8			143.8	341				
		12+94.72 to 13+13.48		LT			19.3			19.3					
		14+32.82 to 15+28.20		LT			158.8			158.8					
		14+56.77 to 14+75.56		LT			19.3			19.3					

**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4" THICK (INCLUDES COMPACTION)		DETECTABLE WARNINGS (ON WALKING SURFACES)		DESIGN NOTES	CONSTRUCTION REMARKS
					522	1	527	2		
					SY		SF			
					P	F	P	F		
12+62.24 to 13+36.62	LT	5254			144.2					
12+94.71 to 13+13.48	LT/RT	5224			16.1					
14+34.82 to 15+28.30	LT	5241			167.1					
14+56.77 to 14+75.56	LT/RT	5233			15.7					
13+01.71 to 13+05.71	LT/RT	5688					8.0			
13+01.73 to 13+05.71	LT	5785					8.6			
13+30.11 to 13+33.90	LT	5737					8.7			
14+37.13 to 14+40.76	LT	5703					8.7			
14+64.67 to 14+68.67	LT	5697					8.6			
14+64.67 to 14+68.67	LT/RT	5693					8.3			
SUB-TOTAL:					343.1		50.9			
TOTAL:					343		51			

**SUMMARY OF PERFORMANCE TURF**

LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (MATCH EXISTING)		DESIGN NOTES	CONSTRUCTION REMARKS
					570	1 2		
					SY			
					P	F		
12+62.24 to 13+29.68	LT	6614			35.9			
12+91.42 to 13+01.71	LT/RT	6556			3.7			
13+05.71 to 13+15.25	RT	6561			2.7			
13+33.69 to 13+38.28	LT	6598			13.4			
14+34.82 to 14+39.22	LT	6584			11.5			
14+43.63 to 15+28.37	LT	6605			39.2			
14+54.80 to 14+63.64	RT	6571			2.2			
14+69.16 to 14+78.76	LT/RT	6566			3.4			
SUB-TOTAL:					112.0			
TOTAL:					112			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



DRMP, INC.  
941 LAKE BALDWIN LANE  
ORLANDO, FL 32814  
CERT. OF AUTH.: 2648  
JOSEPH C. KUNKEL, P.E.  
P.E. NO.: 42629

DESIGN PLANS FOR:

**INTERSECTION IMPROVEMENTS**

PROJECT NAME	PROJECT NO.
UNIVERSITY BLVD AT FORSYTH RD	CIP-2722

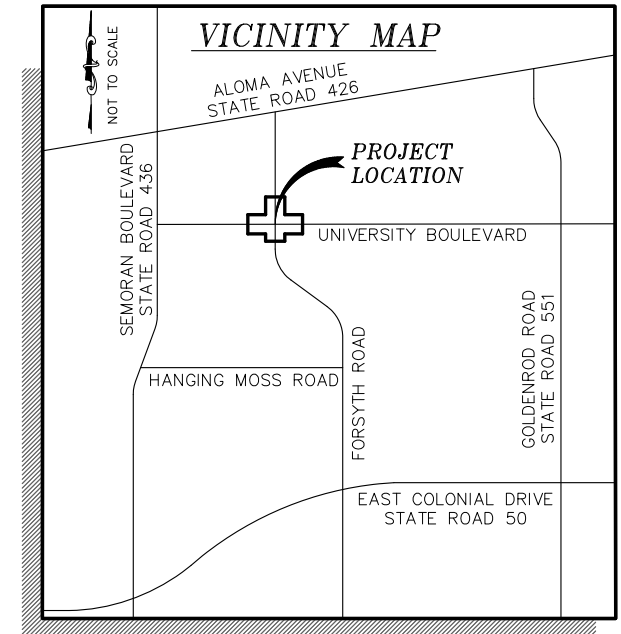
**SUMMARY OF QUANTITIES**

SHEET NO.  
**SQ-2**



# BOUNDARY & TOPOGRAPHIC SURVEY OF UNIVERSITY BOULEVARD AT FORSYTH ROAD INTERSECTION IMPROVEMENTS

LYING IN SECTIONS 3 & 10, TOWNSHIP 22 SOUTH, RANGE 30 EAST  
ORANGE COUNTY, FLORIDA



### GENERAL NOTES

- THE PURPOSE OF SURVEY IS TO ESTABLISH THE EXISTING RIGHT OF WAY LINES OF THE INTERSECTION OF UNIVERSITY BOULEVARD AND FORSYTH ROAD. THE SURVEY SHALL EXTEND APPROXIMATELY 200 FEET TO THE NORTH, EAST AND WEST, AND TO THE PAVEMENT RETURNS TO THE SOUTH, A LENGTH OF APPROXIMATELY 650 FEET, BY ESTABLISHING OR RE-ESTABLISHING CORNERS, MONUMENTS AND BOUNDARY LINES, AND TO ESTABLISH THE HORIZONTAL AND VERTICAL SPATIAL RELATIONSHIP OF THE NATURAL OR MANMADE FEATURES LYING WITHIN THE DEFINED LIMITS NOTED ABOVE AND TWENTY FIVE FEET OUTSIDE THE EXISTING RIGHT OF WAY WHERE ACCESSIBLE.
- BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD83/2011), ZONE 901, FLORIDA EAST, WITH THE NORTH LINE OF SECTION 10, TOWNSHIP 22 SOUTH, RANGE 30 EAST, HAVING A BEARING OF NORTH 89°11'19" EAST.
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED FROM THE FOLLOWING ORANGE COUNTY BENCHMARKS:  
  
 C1043011: FOUND 2-1/4" ORANGE COUNTY CONTROL DISK IN THE TOP OF A CURB INLET ON THE SOUTH SIDE OF UNIVERSITY BOULEVARD AND 275 FEET ± WEST OF DRIGGS DRIVE AT THE NORTHWEST CORNER OF THE MCDONALDS PROPERTY.  
 PUBLISHED ELEVATION = 88.368 FEET (NAVD88)  
  
 L789010: FOUND A SQUARE CUT IN THE CENTERLINE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF UNIVERSITY BOULEVARD AND 600 FEET ± WEST OF FORSYTH ROAD.  
 PUBLISHED ELEVATION = 88.879 FEET (NAVD88)
- ALL RECORDING REFERENCES ON THIS SURVEY SHALL REFER TO THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, UNLESS OTHERWISE NOTED.
- UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS DRAWING, SKETCH, PLAT, OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
- THE SURVEYOR HAS NOT ABSTRACTED THE LANDS SHOWN HEREON FOR EASEMENTS AND/OR RIGHT OF WAY RECORDS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.
- ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM), DATED SEPTEMBER 25, 2009 THE SURVEY LIMITS SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS LOCATED ON COMMUNITY PANEL NO. 120179-0260-F, MAP NUMBER 12095C0260F.
- THE LOCATION OF UNDERGROUND UTILITY LINES SHOWN HEREON WERE DETERMINED BY A COMBINATION OF PHYSICAL MARKINGS MADE BY THE UTILITY COMPANIES IN RESPONSE TO CALL SUNSHINE LOCATE REQUEST, TICKET NUMBER 197811043, AND BY EXAMINATION OF SURFACE APPURTENANCES OF SAID UTILITIES. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.

### ABBREVIATIONS

- |                               |  |
|-------------------------------|--|
| BL = BASELINE                 | MB = MAP BOOK                                  |
| BC = BACK OF CURB             | NSP = NON-SLIP PAD                             |
| BE = BURIED ELECTRIC CABLE    | NT = NON-TANGENT                               |
| (C) = CALCULATED              | NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988 |
| CONC = CONCRETE               | N = NORTHING                                   |
| CBW = CONCRETE BLOCK WALL     | N/A = NOT APPLICABLE                           |
| CM = CONCRETE MONUMENT        | NO. = NUMBER                                   |
| CRW = CONCRETE RETAINING WALL | ORB = OFFICIAL RECORDS BOOK                    |
| CSL = CONCRETE SLAB           | OC = ORANGE COUNTY                             |
| CPP = CORRUGATED PLASTIC PIPE | PG = PAGE                                      |
| (D) = DEED                    | PGS = PAGES                                    |
| DB = DEED BOOK                | PRM = PERMANENT REFERENCE MONUMENT             |
| Δ = DELTA                     | (P) = PLAT                                     |
| E = EASTING                   | PB = PLAT BOOK                                 |
| EC = EDGE OF CONCRETE         | PC = POINT OF CURVATURE                        |
| EP = EDGE OF PAVEMENT         | PI = POINT OF INTERSECTION                     |
| EL = ELEVATION                | PVC = POLYVINYL CHLORIDE PIPE                  |
| (F) = FIELD                   | R = RADIUS                                     |
| FND = FOUND                   | RGE = RANGE                                    |
| HR = HANDRAIL                 | RCP = REINFORCED CONCRETE PIPE                 |
| ID = IDENTIFICATION           | RT = RIGHT                                     |
| INV = INVERT                  | R/W = RIGHT OF WAY                             |
| IR = IRON ROD                 | SEC. = SECTION                                 |
| IRC = IRON ROD & CAP          | SW = SIDEWALK                                  |
| LSA = LANDSCAPE AREA          | STA = STATION                                  |
| LL = LANE LINE                | TOS = TOE OF SLOPE                             |
| LT = LEFT                     | TOB = TOP OF BANK                              |
| LB = LICENSED BUSINESS        | TWP. = TOWNSHIP                                |
| LS = LICENSED SURVEYOR        | W/ = WITH                                      |

### PREPARED FOR:

**DRMP, INC.**  
ORANGE COUNTY ENGINEERING  
PUBLIC WORKS ROADS AND DRAINAGE  
DIVISION

### SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT A SURVEY OF THE PROPERTY SHOWN HEREON WAS MADE UNDER MY SUPERVISION AND THAT THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES AND THAT THE SKETCH HEREON IS A TRUE AND ACCURATE REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF. SUBJECT TO NOTES AND NOTATIONS SHOWN

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_

H. Paul deVivero, Professional Land Surveyor No. 4990  
Land Surveyor Business License No. 6556  
VALID ONLY WITH SIGNATURE AND EMBOSSED SEAL

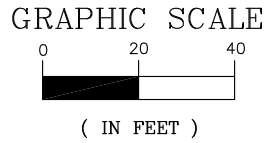
### SHEET INDEX

SHEET	CONTENTS
1	COVER
2	DETAIL SHEET
3	REFERENCES

### LEGEND

- |                                    |                                |                         |
|------------------------------------|--------------------------------|-------------------------|
| — BE — = BURIED ELECTRIC CABLE     | = GAS VALVE                    | = SERVICE BOX           |
| — FOC — = BURIED FIBER OPTIC CABLE | ---> = GUY ANCHOR              | = SINGLE SUPPORT SIGN   |
| — GAS — = BURIED GAS MAIN          | = LIGHT POLE                   | x 85.0 = SPOT ELEVATION |
| — BT — = BURIED TELEPHONE CABLE    | = MAIL BOX                     | = TRAFFIC SIGNAL POLE   |
| = BILLBOARD (36" STEEL POLE)       | = MONITORING WELL              | = TREE OAK              |
| = CABLE TV RISER                   | (6) = NUMBER OF PARKING SPACES | * = TREE PALM           |
| = DUMPSTER                         | — DE — = OVERHEAD WIRE         | ● = UTILITY MARKER      |
| = ELECTRIC METER                   | = POWER POLE                   | = WATER METER           |
| ~ = END NOT FOUND/NOT LOCATED      | = POWER POLE WITH TRANSFORMER  | = WATER VALVE           |
| = FIRE HYDRANT                     | = SANITARY SEWER VALVE COVER   | = WIRE PULL BOX         |
| ○○○○○○○○ = HEDGE                   |                                |                         |

<b>GEODATA CONSULTANTS, INC.</b> SURVEYING & MAPPING 1349 SOUTH INTERNATIONAL PARKWAY SUITE 2401 LAKE MARY, FLORIDA 32746 VOICE: (407) 732-6965 FAX: (407) 878-0841			DRAWN BY: RJG	CHECKED BY: RJH/DW
			LAST DATE OF FIELD SURVEY: JULY 12, 2018	
			FIELD BOOK 17-17, PAGES 50-70	
			SEC. 3 & 10, TWP. 22 SOUTH, RGE. 30 EAST ORANGE COUNTY, FLORIDA	
No.	DATE	REVISION	DATE:	SCALE:
			JULY 19, 2018	N/A
			PROJECT No. D04-08	SHEET OF 3
				<b>1</b>



- L1: S76°29'27"W 37.22'(C) 37.29'(P)
- L2: S42°16'36"W 44.86'(C) 44.95'(P)
- L3: S09°54'24"W 32.33'(C) 32.39'(P)
- L4: S10°31'22"E 32.23'(C) 32.04'(P)
- L5: S45°52'11"E 47.94'(F) 47.96'(P)
- L6: S83°16'12"E 35.58'(F) 35.71'(P)
- L7: S43°54'17"W 43.13'(C) 43.20'(D)
- L8: S42°45'17"E 39.06'(C)(D)

**SILVER CITY**  
PB 43, PGS 11-12

**A C I UNIVERSITY CORNERS**  
PB 39, PG 130

LOT 1

LOT 2

LOT 1

FND 4"x4" CM W/  
1/2" IR NO ID  
N: 1550077.22  
E: 559571.76

STA 10+85.63, 117.78' LT  
FND NAIL & DISK  
"EBI 7652"

R/W PER ORB 5481, PG 2172

S87°13'46"W 167.40'(C) 167.37'(P)

S87°13'46"W 513.73'(C)(P)

NW CORNER OF NE 1/4 OF SEC. 10-22-30  
FND 4"x4" CM NO ID  
N: 1549962.08  
E: 558898.82

**BEGIN OF SURVEY UNIVERSITY BOULEVARD**  
UNIVERSITY BOULEVARD  
R/W VARIES  
STA 10+00.00

SET 5/8" IRC  
"TRAV PT LB 6556"  
N: 1549972.25  
E: 559837.74

R/W PER ORB 6005, PG 4900  
STA 11+76.83, 15.93' RT

SECTION 3-22-30

SECTION 10-22-30

NORTH LINE OF NE 1/4 OF SEC. 10-22-30

STA 10+79.60, 25.74' RT  
FND 4"x4" CM  
"POST BUCKLEY SCHUH JERNIGAN INC. PLS"

**SITE BENCHMARK 1**  
SET NAIL & DISK  
"REFERENCE LB 6556"  
EL=90.60' (NAVD88)  
STA 10+02, 84' RT  
(NOT SHOWN TO SCALE)

UNIVERSITY PLACE OFFICE PARK  
PB 27, PG 92

ORB 3363, PG 1403  
ORB 1846, PG 408  
ORB 3333, PG 511  
ORB 1889, PG 987  
ORB 3458, PG 2404  
ORB 1620, PG 73  
ORB 3431, PG 1706  
ORB 5481, PG 2172  
ORB 5444, PG 3572  
MB 87, PG 1051

CONTROL STRUCTURE  
GRATE EL=88.67'  
SE INV EL=85.66'  
N SIDE 1.5"x1" ORIFICE INV EL=85.64'  
S SIDE 1.5"x1" ORIFICE INV EL=85.68'

STA 13+25.82, 23.88' RT  
FND NAIL & DISK  
"PBS&J LB 024"  
(N01°05'10"W 0.38')

**SITE BENCHMARK 2**  
SET NAIL & DISK  
"REFERENCE LB 6556"  
EL=89.62' (NAVD88)  
STA 13+14, 83' RT

**OF SURVEY UNIVERSITY BOULEVARD**  
PI STA 13+03.69  
Δ=0'14'29" RT  
SET 5/8" IRC  
"TRAV PT LB 6556"  
N: 1549986.68  
E: 560141.08

**END OF SURVEY UNIVERSITY BOULEVARD**  
STA 16+04.59

SET NAIL & DISK  
"TRAV PT LB 6556"  
N: 1550000.93  
E: 560441.65

**OF SURVEY UNIVERSITY BOULEVARD**

NE CORNER OF THE NE 1/4 OF SEC. 10-22-30  
FND 1/2" IRC "RLS 6898"  
N: 1549999.66  
E: 561553.08

**SITE BENCHMARK 3**  
SET NAIL & DISK  
"REFERENCE LB 6556"  
EL=87.05' (NAVD88)  
N: 1549980  
E: 560451

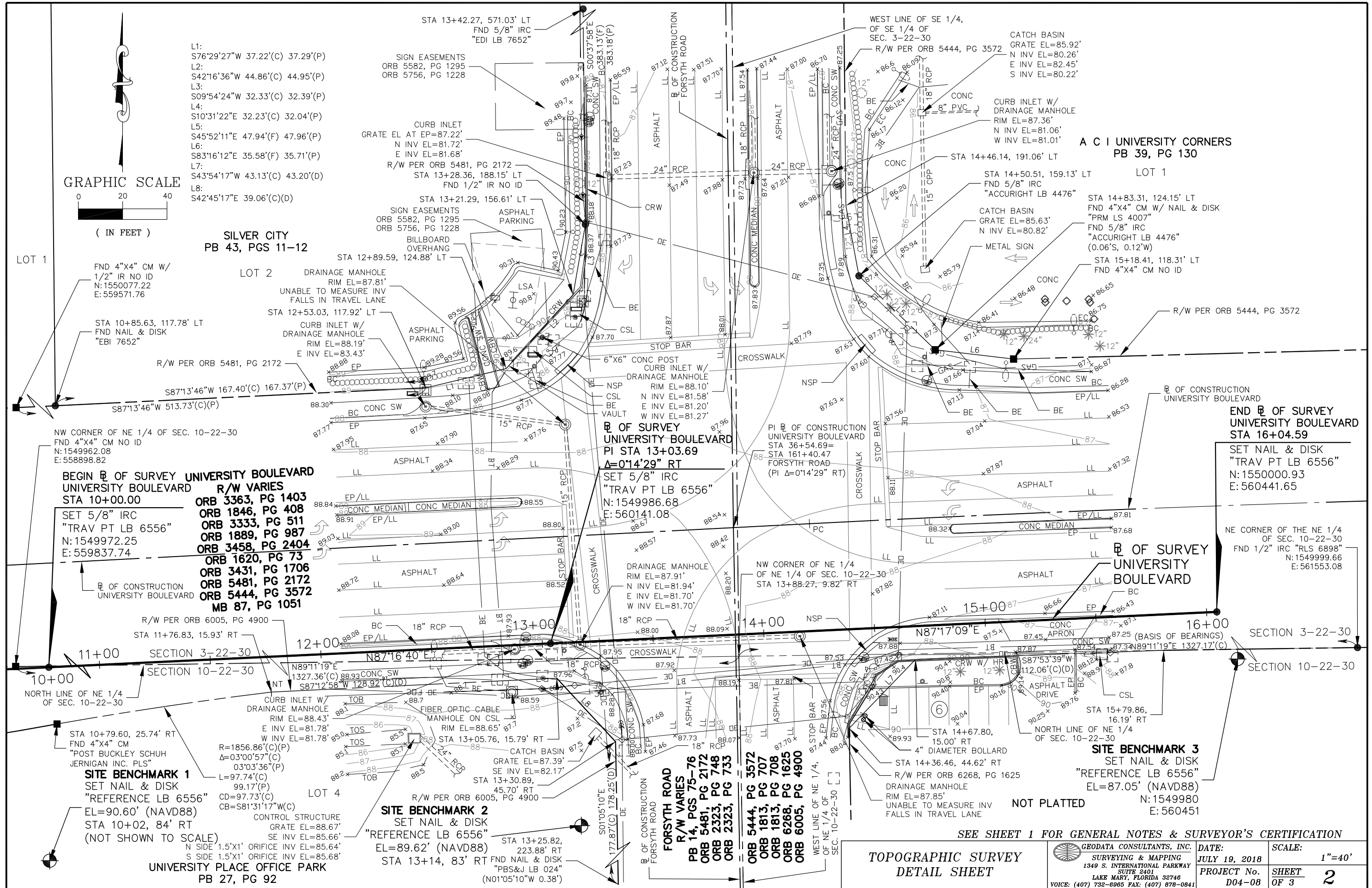
**TOPOGRAPHIC SURVEY  
DETAIL SHEET**

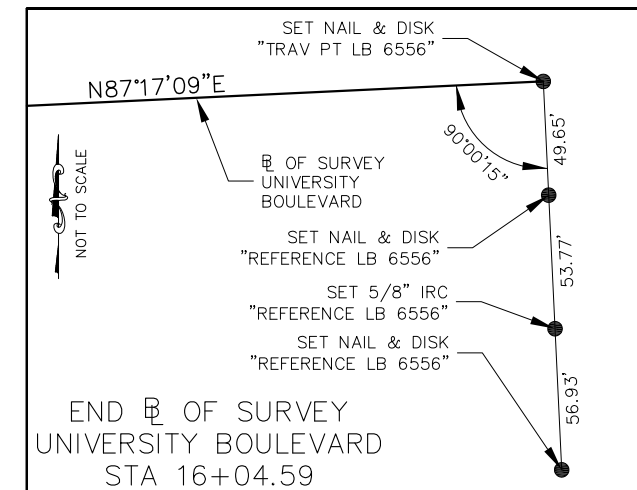
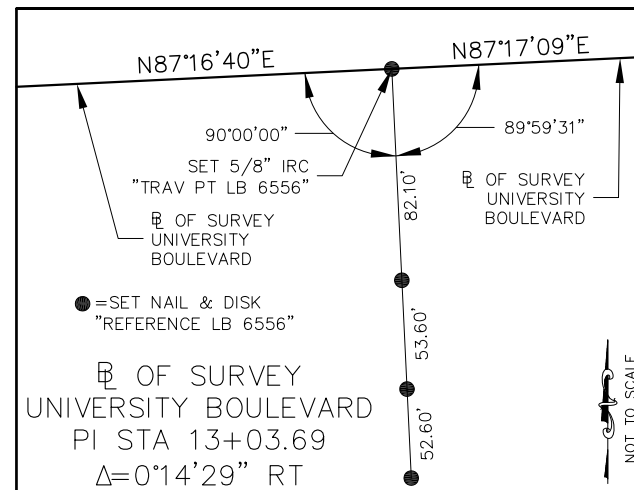
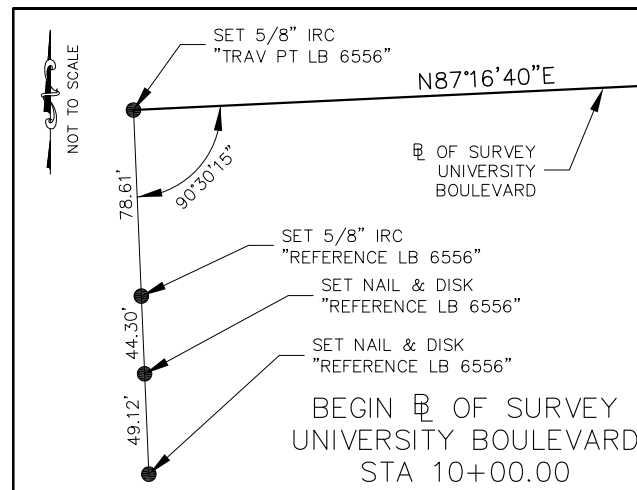
GEODATA CONSULTANTS, INC.  
SURVEYING & MAPPING  
1349 S. INTERNATIONAL PARKWAY  
SUITE 2401  
LAKE MARY, FLORIDA 32746  
VOICE: (407) 732-6965 FAX: (407) 878-0841

DATE:	JULY 19, 2018	SCALE:	1"=40'
PROJECT No.	D04-08	SHEET	2
		OF 3	

SEE SHEET 1 FOR GENERAL NOTES & SURVEYOR'S CERTIFICATION

NOT PLATTED





SEE SHEET 1 FOR GENERAL NOTES & SURVEYOR'S CERTIFICATION

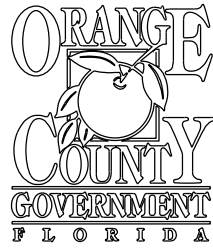
TOPOGRAPHIC SURVEY  
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JULY 19, 2018  
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D04-08

SCALE:  
N/A  
SHEET  
OF 3  
3



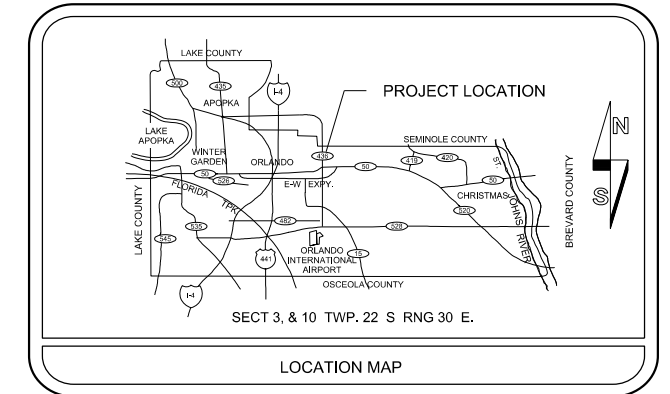


JERRY L. DEMINGS, COUNTY MAYOR

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
DIANA ALMODOVAR, P.E.	INTERIM PUBLIC WORKS DIRECTOR

**CONSTRUCTION PLANS FOR  
 INTERSECTION IMPROVEMENTS  
 UNIVERSITY BLVD. AT  
 FORSYTH RD.  
 ORANGE COUNTY CIP NO. 2722  
 DISTRICT NO. 5  
 ORANGE COUNTY, FLORIDA**



UTILITIES ENCOUNTERED	
COMPANY NAME	TELEPHONE NO.
ORANGE COUNTY UTILITIES	407-254-9706
CHARTER COMMUNICATIONS	407-215-5864
CITY OF WINTER PARK	407-599-3355
DUKE ENERGY	407-905-3376
CROWN CASTLE FIBER	407-461-3367
MCI	469-886-4238
ORANGE COUNTY PUBLIC WORKS	407-836-7804
SUMMIT BROADBAND	407-996-1183
TECO PEOPLES GAS-ORLANDO	407-420-6663
AT&T DISTRIBUTION	407-351-8180
SEMINOLE COUNTY	352-256-1524
COMCAST CABLEVISION	352-516-3824
CENTURYLINK	407-830-3359

INDEX OF SHEETS	
SHEET	DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	GENERAL NOTES
S-4	SIGNING AND PAVEMENT MARKING PLAN SHEET

**SIGNING AND PAVEMENT MARKING PLANS**

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 CHANGE 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:   JUNE 2019   ENGINEER:   NICHOLAS D. DEVITO   PE NO.:   78448  

PREPARED BY:  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 PHONE: 407-896-0594  
 CERT. OF AUTH. #2648

GOVERNING STANDARDS AND STANDARD SPECIFICATIONS :  
 FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION  
 AND  
 FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS	DATE	BY


DESIGNED BY:   CRV   DATE:   JULY 2018    
 CHECKED BY:   WEM   DATE:   APRIL 2019    
 APPROVED BY:   NDD   DATE:   APRIL 2019  

SHEET   S-1    
 OF   S-4

TABULATION OF QUANTITIES


PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			S-4														PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
700-1-50	SINGLE POST SIGN, RELOCATE	AS	3														3		3	
706-3A	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE/RED	EA	42														42		42	
706-3B	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW/YELLOW	EA	20														20		20	
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS															1		1	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 6"	LF	812														812		812	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 12"	LF	842														842		842	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 24"	LF	996														996		996	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6"	LF	133														133		133	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	9														9		9	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	LF	538														538		538	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID 6"	LF	361														361		361	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID 18" FOR DIAGONAL OR CHEVRON	LF	21														21		21	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, 12" FOR CROSSWALK	LF	842														842		842	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, 24" FOR STOP LINE AND CROSSWALK	LF	996														996		996	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 EXTENSION LINE, 6"	LF	538														538		538	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA	9														9		9	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	21														21		21	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	LF	812														812		812	
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	LF	133														133		133	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	LF	361														361		361	

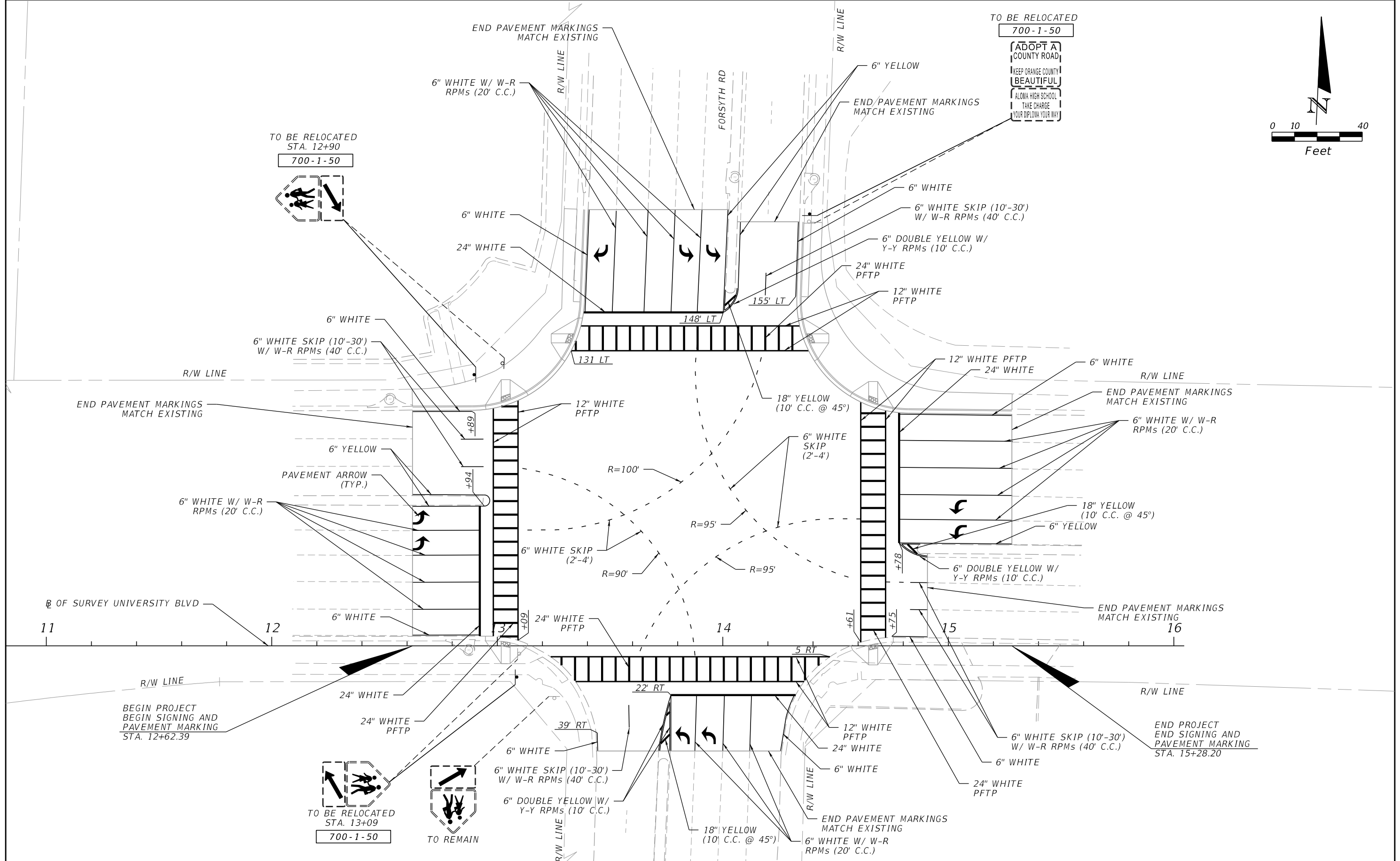
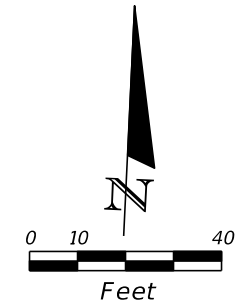
\* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE) LUMP SUM PAY ITEM NO. 710-90. THE QUANTITIES ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 NICHOLAS D. DEVITO, P.E. P.E. NO.: 78448		DESIGN PLANS FOR: <b>INTERSECTION IMPROVEMENTS</b> PROJECT NAME: UNIVERSITY BLVD AT FORSYTH RD PROJECT NO.: CIP-2722		<b>TABULATION OF QUANTITIES</b>		SHEET NO. S-2
REVISIONS																						
DATE	DESCRIPTION	DATE	DESCRIPTION																			

SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS, DATED 2018-19, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.
2. SIGNS THAT CONFLICT WITH CONSTRUCTION SHALL BE REMOVED, STOCKPILED AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE PROJECT ENGINEER. SIGNS SHALL BE REPLACED AT THEIR ORIGINAL LOCATIONS UNLESS OTHERWISE NOTED IN THE PLANS.
3. ALL EXISTING SIGNS TO BE REMOVED MUST BE FREE OF DAMAGE AND DELIVERED TO AN AREA DESIGNATED BY THE OWNER'S AUTHORIZED REPRESENTATIVE FOR PROPER STORAGE.
4. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE PROJECT MANAGER, SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ALL SURFACES SHALL BE CLEANED PRIOR TO THE START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
6. ALL PAVEMENT MARKINGS SHALL BE APPLIED BEFORE REFLECTIVE PAVEMENT MARKERS ARE APPLIED.
7. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH HORIZONTAL CLEARANCES (CLEAR ZONES) AS SPECIFIED BY FDOT.
8. FOR REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS, REFER TO FDOT STANDARD PLANS, INDEX 706-001.
9. BITUMINOUS ADHESIVE SHALL BE USED TO SET REFLECTIVE PAVEMENT MARKERS ON ALL ASPHALT PAVEMENTS.
10. CAUTION SHOULD BE EXERCISED IN THE INSTALLATION OF POST MOUNTED ROADSIDE SIGNS IN ORDER TO PREVENT DAMAGE TO BURIED UTILITIES. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION FOR UTILITY LOCATES AND PROTECTION.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RECORD AND REPLACE THE EXISTING PAVEMENT MARKINGS AND DELINEATORS UNLESS OTHERWISE NOTED IN THE PLANS. ALL MARKINGS AND DELINEATORS SHALL BE REPLACED AT THEIR ORIGINAL LOCATIONS UNLESS NOTED AS OTHERWISE IN THE PLANS.
12. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
13. SIGNS SHALL BE CONSTRUCTED WITH TYPE XI (DG3) REFLECTIVE SHEETING.
14. SIGN POSTS SHALL BE MINIMUM 14 GAUGE 2' X 2' SQUARE WELDED STEEL WITH 3/8" KNOCKOUTS ON 1" CENTERS ON ALL FOUR SIDES. THE POSTS SHALL BE GALVANIZED AND SEALED WITH A POLYMER TOPCOAT.
15. IF THE CONTRACTOR USES SEGMENTAL TEMPLATES TO PLACE DIRECTIONAL ARROWS OR PAVEMENT MESSAGES, ALL SEGMENTS SHALL BE CLOSED TO FORM ONE-PIECE COMPONENTS PER STANDARD PLANS INDEX 711-001.
16. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT LIMITS.

REVISIONS				 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 NICHOLAS D. DEVITO, P.E. P.E. NO.: 78448	DESIGN PLANS FOR:		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		INTERSECTION IMPROVEMENTS			S-3
					PROJECT NAME	PROJECT NO.		
					UNIVERSITY BLVD AT FORSYTH RD	CIP-2722		



TO BE RELOCATED  
STA. 12+90  
700-1-50

TO BE RELOCATED  
700-1-50

ADOPT A  
COUNTY ROAD  
KEEP ORANGE COUNTY  
BEAUTIFUL  
ALOMA HIGH SCHOOL  
TAKE CHARGE  
YOUR DIPLOMA YOUR WAY



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ORANGE COUNTY GOVERNMENT FLORIDA**  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 CERT. OF AUTH.: 2648  
 NICHOLAS D. DEVITO, P.E.  
 P.E. NO.: 78448

DESIGN PLANS FOR: <b>INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME <b>UNIVERSITY BLVD AT FORSYTH RD</b>	PROJECT NO. <b>CIP-2722</b>

**SIGNING & PAVEMENT MARKING PLAN SHEET**

SHEET NO.  
**S-4**

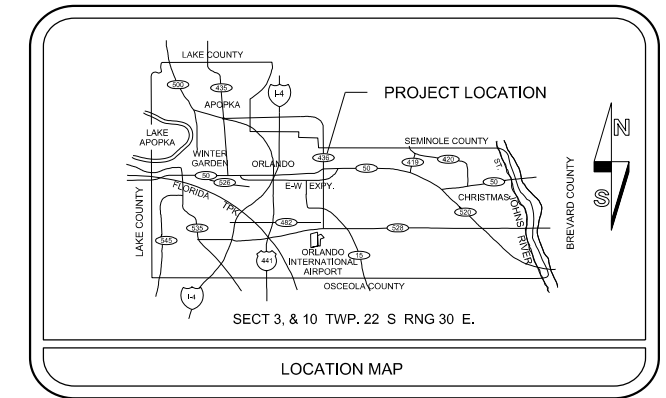


JERRY L. DEMINGS, COUNTY MAYOR

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
DIANA ALMODOVAR, P.E.	INTERIM PUBLIC WORKS DIRECTOR

**CONSTRUCTION PLANS FOR  
 INTERSECTION IMPROVEMENTS  
 UNIVERSITY BLVD. AT  
 FORSYTH RD.  
 ORANGE COUNTY CIP NO. 2722  
 DISTRICT NO. 5  
 ORANGE COUNTY, FLORIDA**



INDEX OF SHEETS	
SHEET	DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	SIGNALIZATION PLAN

**SIGNALIZATION PLANS**

UTILITIES ENCOUNTERED	
COMPANY NAME	TELEPHONE NO.
ORANGE COUNTY UTILITIES	407-254-9719
CHARTER COMMUNICATIONS	407-532-8509
CITY OF WINTER PARK	407-691-7803
DUKE ENERGY	407-905-3376
CROWN CASTLE FIBER	786-610-7073
MCI	469-886-4238
ORANGE COUNTY PUBLIC WORKS	407-836-7804
ORLANDO TELEPHONE COMPANY, INC	407-996-6297
TECO PEOPLES GAS-ORLANDO	813-275-3738
AT&T DISTRIBUTION	561-997-0240
SEMINOLE COUNTY	407-865-2114
COMCAST CABLEVISION	352-516-3824
CENTURYLINK	407-830-3359

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 CHANGE 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:   JUNE 2019   ENGINEER:   NICHOLAS D. DEVITO   PE NO.:   78448  

PREPARED BY:  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 PHONE: 407-896-0594  
 CERT. OF AUTH. #2648

GOVERNING STANDARDS AND STANDARD SPECIFICATIONS :  
 FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION  
 AND  
 FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS	DATE	BY


DESIGNED BY:   CRV   DATE:   JULY 2018    
 CHECKED BY:   BEH   DATE:   APRIL 2019    
 APPROVED BY:   NDD   DATE:   APRIL 2019  

SHEET   T-1    
 OF   T-4

TABULATION OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-4																	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	40														40		40	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	355														355		355	
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1														1		1	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	7														7		7	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	1														1		1	
646-1-12	ALUMINUM SIGNALS POLE, FURNISH & INSTALL PEDESTRIAN DETECTOR POST	EA	5														5		5	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN 1 WAY	AS	1														1		1	
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL-POLE/PEDESTAL TO REMAIN	AS	1														1		1	
660-4-52	VEHICLE DETECTION SYSTEM- VIDEO, ADJUST/MODIFY ABOVE GROUND EQUIPMENT	EA	4														4		4	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8														8		8	
665-1-60	PEDESTRIAN DETECTOR, REMOVE- POLE/PEDESTAL TO REMAIN	EA	8														8		8	
671-2-40	TRAFFIC CONTROLLER, MODIFY	EA	1														1		1	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



DRMP, INC.  
941 LAKE BALDWIN LANE  
ORLANDO, FL 32814  
CERT. OF AUTH.: 2648  
NICHOLAS D. DEVITO, P.E.  
P.E. NO.: 78448

DESIGN PLANS FOR:  
**INTERSECTION IMPROVEMENTS**


PROJECT NAME	PROJECT NO.
UNIVERSITY BLVD AT FORSYTH RD	CIP-2722

**TABULATION OF QUANTITIES**

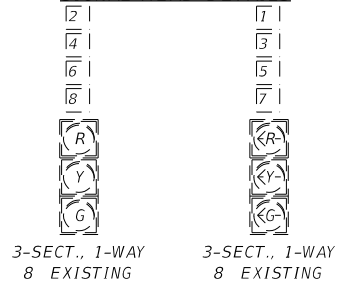
SHEET NO.  
**T-2**

1. THE SIGNALIZATION PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS, 2018-19. GOVERNING SPECIFICATIONS ARE THE STATE OF FLORIDA, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.
3. WHENEVER SIGNAL WORK IS BEING PERFORMED AT AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT, INSTALLING LOOPS AND RUNS, AND TURNING ON NEW SIGNALS) WHERE A LANE IS CLOSED AN OFF-DUTY LAW ENFORCEMENT OFFICER SHALL DIRECT TRAFFIC. THE COST OF THE OFF-DUTY LAW ENFORCEMENT OFFICER SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.
4. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN 30 FEET (9 METERS) OF THE ROADWAY CARRYING TRAFFIC. IF THE ABOVE IS NOT POSSIBLE, A STORAGE AREA WITH PROPER DELINEATION AND ADVANCED WARNING SHALL BE USED WITH THE APPROVAL OF THE ENGINEER.
5. NOT USED.
6. AT THE TIME OF FINAL PROJECT INSPECTION THE CONTRACTOR SHALL FURNISH TO THE INSPECTOR THREE COMPLETE SETS OF AS-BUILT PLANS. ONE SET SHALL BE LEFT IN THE CABINET FOR THE LOCAL MAINTAINING AGENCY, ORANGE COUNTY.
7. NOT USED.
8. THE CONTRACTOR SHALL NOTIFY ORANGE COUNTY TRAFFIC OPERATIONS (407-836-7890) AT LEAST 24 HOURS IN ADVANCE OF INSTALLING GROUND RODS, UNDERGROUND CONDUIT, MAST ARM FOUNDATIONS OR SETTING POLES SO THAT THESE OPERATIONS MAY BE OBSERVED.
9. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT SPECIFICATIONS.
10. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
11. ALL CONDUITS TO BE INSTALLED UNDER PAVEMENT OR SIDEWALK SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE COURSE.
12. ALL CONDUIT SHALL BE SCHEDULE 40, 2 INCH (5 CM) DIA. MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.
13. THE CONTRACTOR SHALL INSTALL A CONDUIT STUB WITH CAP A MINIMUM OF 12 INCHES (30 CM) OUTSIDE THE POLE FOOTING COMPLETE WITH SWEEP UP INTO THE POLE, IN EACH CONDUIT ENTRANCE IN THE POLE. THE FOOTING, TOP OF SIDEWALK, SIDE OF POLE, ETC. SHALL BE MARKED WITH AN APPROPRIATE ETCHED "X" IN ORDER THAT IT MAY BE READILY LOCATED FOR FUTURE USE.
14. ALL ENDS OF CONDUITS IN PULL BOXES AND CABINETS SHALL BE SEALED WITH ELECTRICAL PUTTY AFTER WIRING IS COMPLETE.
15. TWO SPARE CABINET CONDUITS SHALL BE STUBBED AND CAPPED IN THE NEAREST PULL BOX.
16. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 7 FEET (2.1 METERS) FROM THE EDGE OF PAVEMENT.
17. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
18. UNDER NO CIRCUMSTANCES SHALL ENERGIZED CABLE BE PLACED IN THE SAME CONDUIT OR PULL BOX AS LOOP LEAD-IN CABLE.
19. ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP DESIGNED TO PROVIDE A FIRM HOLD ON THE EXTERIOR COVERING OF THE CABLE. A WINCH WITH A SLIP CLUTCH SHALL BE USED TO INSURE THAT THE ALLOWABLE TENSION UNIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.
20. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR BOTH SIGNAL AND INTERCONNECT CABLE WITH ORANGE COUNTY BEFORE ORDERING. WIRING DIAGRAMS SHALL BE IN ACCORDANCE WITH ORANGE COUNTY SPECIFICATIONS.
21. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.
22. NOT USED.
23. THREE SPARE WIRES ARE REQUIRED PER SIGNAL CABLE. SPARES SHALL BE BOUND AND GROUNDED IN CABINET.
24. NOT USED.
25. NOT USED.
26. NOT USED.
27. NOT USED.
28. NOT USED.

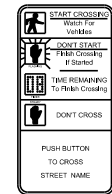
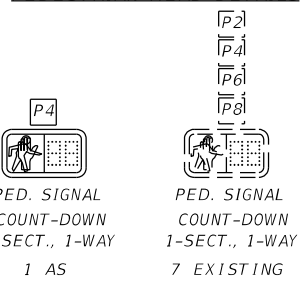
29. NOT USED.
30. DURING TRAFFIC SIGNAL FLASHING OPERATION THE RED ARROW INDICATION OF ALL 3-SECTION LEFT TURN HEADS SHALL FLASH. UNLESS SPECIFIED OTHERWISE, FLASHING OPERATION SHALL BE AMBER FOR MOVEMENTS 2 & 6 AND RED FOR MOVEMENTS 4 & 8.
31. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL LENSES FOR THESE HEADS SHALL BE GLASS.
32. NOT USED.
33. NOT USED.
34. NOT USED.
35. THE USE OF "JONES" PLUGS FOR SIGNAL INSTALLATIONS SHALL BE PROHIBITED.
36. NOT USED.
37. EXISTING SIGNALIZATION SHALL REMAIN IN PLACE TO THE EXTENT POSSIBLE AND SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC AS REQUIRED. THE MAINTENANCE OF EXISTING SIGNALS, UNTIL REMOVED, SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
38. NOT USED.
39. NOT USED.
40. NOT USED.
41. NOT USED.
42. NOT USED.
43. NOT USED.
44. NOT USED.
45. NOT USED.
46. NOT USED.
47. NOT USED.
48. NOT USED.
49. PUSH BUTTONS SHALL BE CONSTRUCTED WITH MECHANICAL CONTACTS. MICROSWITCHES SHALL NOT BE USED.
50. NOT USED.
51. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT EXCEPT CONCRETE POLES SHALL BE DELIVERED TO THE MAINTAINING AGENCY. THE MAINTAINING AGENCY IS:  
ORANGE COUNTY TRAFFIC OPERATIONS  
4200 SOUTH JOHN YOUNG PARKWAY  
ORLANDO, FLORIDA 32839-9205  
(407) 836-7804
52. NOT USED.
53. NOT USED.
54. NOT USED.
55. NOT USED.
56. THE CONTRACTOR SHALL NOTIFY ORANGE COUNTY TRAFFIC ENGINEERING AT 407-836-7890 THAT A SIGNAL IS READY FOR INITIAL INSPECTION. TRAFFIC ENGINEERING WILL COMPLETE INITIAL INSPECTION WITHIN 7 DAYS OF NOTIFICATION AND ALLOW THE SIGNAL TO BE TURNED ON FLASHING MODE IF DETERMINED TO BE READY FOR FULL OPERATION. TRAFFIC ENGINEERING WILL ALLOW THE SIGNAL TO BE TURNED ON TO FULL OPERATION WHEN AUTHORIZED BY THE ENGINEER.

REVISIONS				 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814 CERT. OF AUTH.: 2648 NICHOLAS D. DEVITO, P.E. P.E. NO.: 78448	DESIGN PLANS FOR:		<h2>GENERAL NOTES</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT NO.		
						UNIVERSITY BLVD AT FORSYTH RD		CIP-2722

**SIGNAL HEAD DETAILS**



**PEDESTRIAN HEAD DETAILS**



FTP-68B-06  
8 EA

**VIDEO DETECTOR CHART**

VIDEO DETECTOR CAMERA	DETECTION ZONE	DELAY TIME (SEC)
EX. V-1	VDZ-2	
	VDZ-5	
EX. V-2	VDZ-4A	5
	VDZ-4B	
	VDZ-7	
EX. V-3	VDZ-6	
	VDZ-1	
EX. V-4	VDZ-8	5
	VDZ-8R	
	VDZ-3	

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

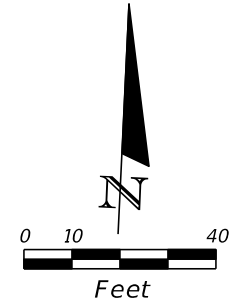
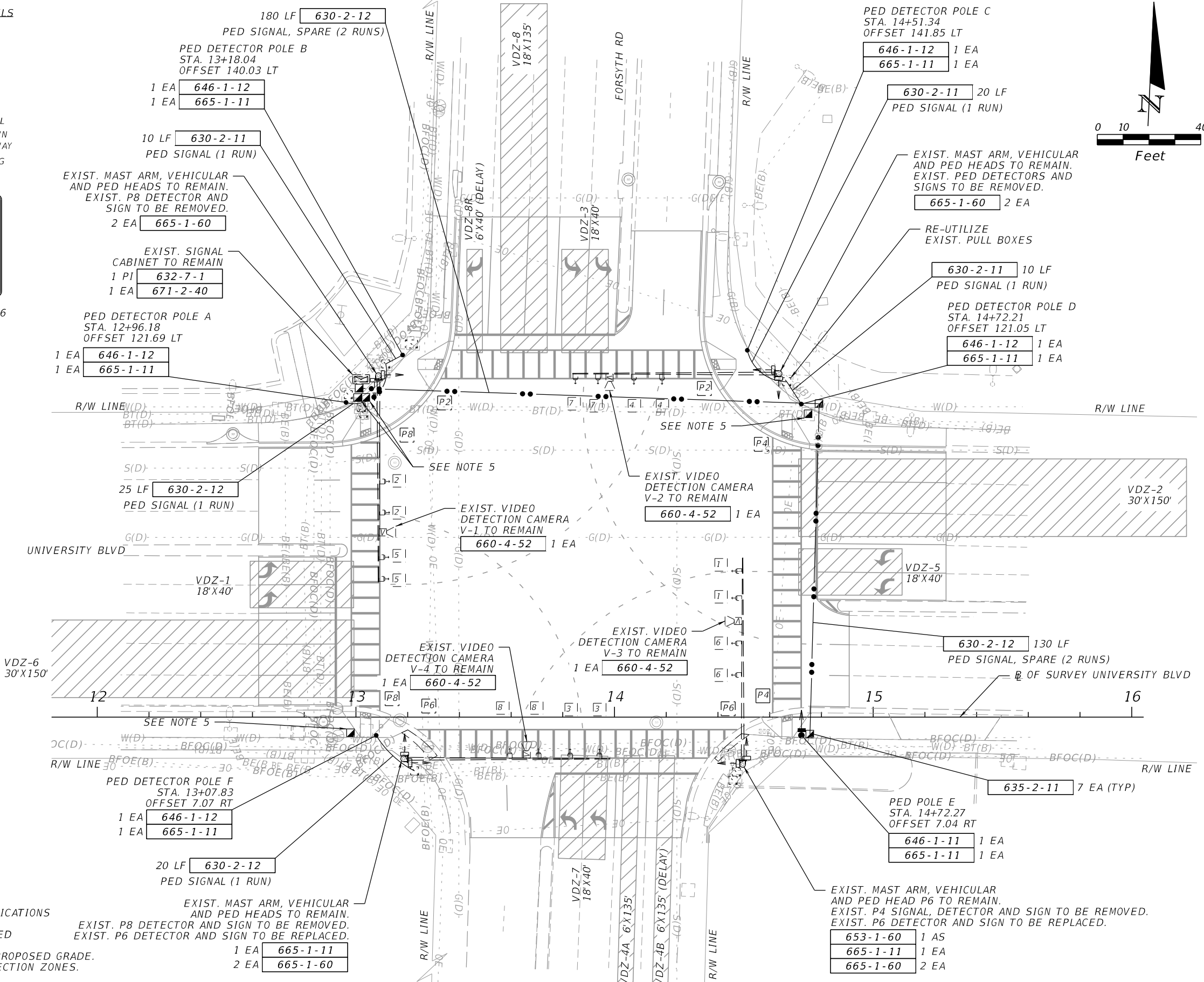
**CONTROLLER TIMINGS**

TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NUMBER								
MINIMUM GREEN								
EXTENSION								
MAXIMUM GREEN 1								
MAXIMUM GREEN 2								
YELLOW CLEARANCE								
ALL RED								
PEDESTRIAN WALK		7.0	7.0	7.0	7.0			
PED. CLEARANCE		29	29	31	29			
RECALL								

EXISTING TIMING SHALL REMAIN EXCEPT AS NOTED ABOVE.

**NOTES:**

- THE MAJOR STREET IS UNIVERSITY BLVD, MOVEMENTS 2 & 6, AND MINOR STREET IS FORSYTH RD, MOVEMENTS 4 & 8.
- UNLESS OTHERWISE NOTED, ALL EXISTING SIGNAL EQUIPMENT SHALL REMAIN.
- TRAFFIC CONTROLLER MODIFICATION SHALL INCLUDE ALL MODIFICATIONS NECESSARY TO ACCOMMODATE THE PROPOSED DESIGN.
- THE EXISTING CONDUIT AND PULL BOXES SHALL BE RE-UTILIZED FOR HOME RUNS TO THE CONTROLLER.
- REPLACE EXISTING SIGNAL PULL BOX WITH NEW PULL BOX AT PROPOSED GRADE.
- VIDEO DETECTION CAMERAS SHALL BE ADJUSTED TO NEW DETECTION ZONES.
- EXISTING SOP TO BE USED.



**REVISIONS**

DATE	DESCRIPTION	DATE	DESCRIPTION

**ORANGE COUNTY GOVERNMENT FLORIDA**  
 DRMP, INC.  
 941 LAKE BALDWIN LANE  
 ORLANDO, FL 32814  
 CERT. OF AUTH.: 2648  
 NICHOLAS D. DEVITO, P.E.  
 P.E. NO.: 78448

**DESIGN PLANS FOR:**

<b>INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME	PROJECT NO.
UNIVERSITY BLVD AT FORSYTH RD	CIP-2722

**SIGNALIZATION PLAN**

SHEET NO.  
T-4