

CONSTRUCTION PLANS FOR TOWN CENTER BOULEVARD SIDEWALK/CURB RAMP INTERSECTION IMPROVEMENTS (AT JOHN YOUNG PKWY., TOWN LOOP BLVD. W., & HUNTERS CREEK BLVD.)

THERESA JACOBS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

S. SCOTT BOYD	DISTRICT 1
BYRON NELSON	DISTRICT 2
PETE CLARKE	DISTRICT 3
JENNIFER THOMPSON	DISTRICT 4
TED EDWARDS	DISTRICT 5
VICTORIA P. SIPLIN	DISTRICT 6

MARK V. MASSARO, P.E., PUBLIC WORKS DIRECTOR

SOURCE OF BENCH MARK DATUM

ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED FROM THE FOLLOWING ORANGE COUNTY BENCHMARKS:

A1199003

FOUND 3.5" ORANGE COUNTY ALUMINUM DISK IN WEST SIDE OF 7' CONCRETE SIDEWALK AT SOUTHWEST QUADRANT OF JOHN YOUNG PARKWAY AND TOWN CENTER BOULEVARD. PUBLISHED ELEVATION = 95.460 (NAVD88)

FOUND 3.5" ALUMINUM DISK AT THE NORTHEAST CORNER OF TEAL POINT ROAD & JOHN YOUNG PARKWAY IN A CONCRETE DROP INLET, 35'± NORTH OF THE CENTERLINE OF TEAL POINT ROAD & 150'± EAST

PUBLISHED ELEVATION = 91.813 FEET (NAVD88)

FOUND 3.5" ORANGE COUNTY ALUMINUM DISK IN CENTERLINE OF 7' CONCRETE SIDEWALK AT NORTHWEST QUADRANT OF TOWN CENTER BOULEVARD AND TOWN LOOP **BOULEVARD**

PUBLISHED ELEVATION = 94.245 FEET (NAVD88)

FOUND 3" ORANGE COUNTY CONTROL DISK IN CENTERLINE OF 7' CONCRETE SIDEWALK NORTH SIDE OF TOWN CENTER BOULEVARD 566 FEET ±WEST OF THE CENTERLINE OF LORD BARCLAY DRIVE AND SOUTH OF A CUL-DE-SAC NAMED ROXSHIRE DRIVE.

PUBLISHED ELEVATION = 88.150 FEET (NAVD88)

FOUND 3" ORANGE COUNTY ALUMINUM DISK IN NORTH END CONCRETE MEDIAN AT SOUTH SIDE OF TOWN CENTER BOULEVARD AND HUNTER'S CREEK BOULEVARD INTERSECTION.

PUBLISHED ELEVATION = 88.830 FEET (NAVD88)

ORANGE COUNTY - DISTRICT NO. 1

PROJECT NO: 2722

29 $\alpha \mid \alpha$ JOHN YOUNG PKWY. & TOWN CENTER BLVD. 24 NOWN LOOPOBLYD W & TOWN CENTER BLYD! HUNTERS CREEK BLVD. & TOWN CENTER BLVD.



35490

VICINITY MAP

KISSIMMEE

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.

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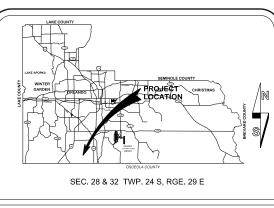
KISSIMME

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(I) of the Florida Statutes.

DATE: _____ ENGINEER: REG. NO. CLAUDE L. CASSAGNOL, P.E. State of Florida



LOCATION MAP

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UTILITIES ENCOUNTERED									
### TOTAL TITLES ENCOUNTERED ##################################									
DUKE ENERGY 407-905-3321 "ECO PEOPLES GAS 407-420-6607									

GTC Engineering Corporation

98 South Semoran Blvd, Orlando, FL 32807 Phone Number - 407.380.0402

Certificate of Authorization

Claude L. Cassagnol, P.E. P.E. Number 35490

REVISIONS	DATE	BY

					~ `
10	DESIGNED BY:	CLC/AM	DATE:	6/3/16	_
	DRAWN BY :	АМ	DATE:	6/3/16	
П	CHECKED BY:	CLC	DATE:	6/3/16	
	APPROVED BY:	CLC	DATE:	6/3/16	
1	PROJECT NO:	2722			_



FINAL SUBMITTAL JUNE, 2016

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2016, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2016, AS AMENDED BY CONTRACT DOCUMENTS.

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

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ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM WITH THE PROVISIONS ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATIONS, THE YEAR 2016 EDITION OF SAFFTY ACT" TO PROTECT EXISTING PAVEMENT STRUCTURES FOUNDATIONS THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT. AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND ORANGE MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL COUNTY ROAD CONSTRUCTION SPECIFICATIONS. LENGTHS INSTALLED. THE CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE TO REMAIN, INCLUDING SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN MAINTAINING MINIMUM UNDISTURBED AREAS. WHEN NECESSARY TO CUT ROOTS OVER ALL MANHOLE COVERS SHALL INCLUDE THE ORANGE COUNTY LOGO AND BE IDENTIFIED 1-1/2 " DIA. THE CUT MUST BE CLEAN. TEMPORARILY COVER EXPOSED ROOTS WITH WET ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS AS "ORANGE COUNTY SANITARY", "ORANGE COUNTY STORM", OR "ORANGE COUNTY BURLAP TO PREVENT DRYING AND COVER WITH EARTH AS SOON AS POSSIBLE. INTERFERING INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF WATER", AS APPROPRIATE. (SEE STANDARD DRAWINGS AND DETAILS SHEET) BRANCHES MAY BE REMOVED AT THE DIRECTION OF A QUALIFIED TREE SURGEON. THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF TREES DAMAGED BEYOND OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS ALL INLET/MANHOLE - PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, REPAIR WITH 3 TREES OF SIMILAR QUALITY AND SPECIES SIZED AT THE DIRECTION OF THE AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO COVERED WITH AN ASPHALTIC MASTIC COATING, AND WRAPPED WITH A COUNTY. ALL TREES THAT ARE TO REMAIN, AS INDICATED IN THE PLANS, SHALL BE PROTECTED MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS. WITH A "TREE PROTECTION BARRICADE" PER FDOT INDEX NO. 544. THIS WORK IS TO BE PAID FILTER FABRIC MATERIAL PER SECTION 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. FOR AND INCLUDED UNDER CLEARING AND GRUBBING. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED IN ACCORDANCE WITH THE AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS. REQUIREMENTS OF THE FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION, MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SILT FENCE, ROCK BAGS, TURBIDITY BARRIERS DESIGN STANDARD INDEX 532. PAYMENT WILL BE INCLUDED IN THE PAY ITEM SYNTHETIC BALES, AND ALL OTHER EROSION AND SEDIMENT CONTROL DEVICES MUST REMAIN IN NO. 110-1-1 (CLEARING & GRUBBING). DESIGN CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE FOOT WILL PLACE AND IN GOOD CONDITION AT ALL LOCATIONS SHOWN IN PLANS OR AS REQUIRED UNTIL THE NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT CONTRACT IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES. MEASURES SHOWN ARE THE MINIMUM REQUIRED, AND THE CONTRACTOR WILL ENSURE THAT THERE THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS IN TURBID WATERS, COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE WATERWAYS, OR OFFSITE AREAS. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE CONTRACTOR PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDESTREETS A CAST IRON VALVE BOX ALL EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED UNLESS AT ALL TIMES AND TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTING CONSTRUCTION. OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY TREE ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. REMOVAL TO BE PERFORMED UNDER CLEARING AND GRUBBING. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE <u>ABBREVIATIONS</u> <u>LEGEND</u> COUNTY SURVEY SECTION AT 407-836-7940. AND BOTH SHALL NOTIFY: SOD ALL DISTURBED AREAS UNLESS OTHERWISE SHOWN ON THE PLANS. SOD SHALL STATE GEODETIC ADVISOR, ORANGE COUNTY SURVEYOR MATCH EXISTING TYPE SOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. BC= BACK OF CURB = CABLE TELEVISION PEDESTAL BUREAU OF SURVEY AND MAPPING ENGINEERING DIVISION B= BASELINE MS 105 PUBLIC WORKS DEPT. = COLUMN (C)= CALCULATED INSTALL TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. 3800 COMMONWEALTH BLVD. 4200 S. JOHN YOUNG PARKWAY = DRAINAGE MANHOLE CB= CHORD BEARING COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD. TALLAHASSEE, FL 32399-3000 ORLANDO, FL 32839-9205 CD= CHORD DISTANCE PHONE: (850) 245-2555 PHONE: (407) 836-7940 = END NOT FOUND OR LOCATED CONC= CONCRETE FAX: (850) 245-2645 FAX: (407) 836-8024 PEGGED SOD TO BE PLACED ON ALL SLOPES 3:1 OR STEEPER. = FLOOD LIGHT CM= CONCRETE MONUMENT (0.00 = LIGHT POLE CPP= CORRUGATED PLASTIC PIPE SAWCUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION. COST TO BE INCLUDED PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE = NON POTABLE/RECLAIM VALVE $\Delta = DELTA (CENTRAL ANGLE)$ IN PAY ITEM 110-1-1 CLEARING & GRUBBING. PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR F := FASTING= NON POTABLE/RECLAIM VALVE COVER DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE ALL PAVEMENT OFFSETS SHOWN ARE FROM PROPOSED CENTERLINE OF CONSTRUCTION; ALL EP= EDGE OF PAVEMENT COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE (407-836-7940), THE CONTRACTOR \bigcirc = OAK TREE RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT EL= ELEVATION SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE = PALM TREF FOM= FIBER OPTIC CABLE MARKER NOTIFICATION. = PEDESTRIAN SIGNAL FND= FOUND FOR STABILIZATION AT TURNOUTS AND DRIVEWAY CONNECTIONS, SEE STANDARD INDEX GM= GAS MARKER \boxtimes No. 515 AND TYPICAL SECTIONS FOR DEPTH AND LBR. = POST/UTILITY MARKER PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ID= IDENTIFICATION = SANITARY MANHOLE ORANGE COUNTY HIGHWAY CONSTRUCTION DIVISION A SET OF FIELD NOTES INV= INVERT DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN SAN = SANITARY VALVE COVER IRC= IRON ROD & CAP AS DIRECTED BY THE ENGINEER. ON THE TITLE SHEET, SURVEY CONTROL SHEET, AND PLAN/PROFILE SHEETS, AND/OR 752 = SERVICE CABINET LSA= LANDSCAPE AREA A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT LL= LANE LINE α TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF LT = LEFT= SIGNAL MAST ARM DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS, PAYMENT IS L= LENGTH **←**[] SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN = SIGNAL SPAN POLE INCLUDED IN THE BID PRICE FOR PAY ITEM 104-14; "PREVENTION, CONTROL, AND LC= LIGUSTRUM CLUSTER THE STATE OF FLORIDA. ABATEMENT OF EROSION AND WATER POLLUTION (LS)", EXCLUDING ITEMS SPECIFIED = SINGLE SUPPORT SIGN M= CRAPE MYRTLE ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE NAVD88= NORTH AMERICAN = TELEPHONE MANHOLE PLANS AND/OR DESIGNATED BY THE ENGINEER. WITHIN 21 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL VERTICAL DATUM OF 1988 = TELEPHONE PEDESTAL STAKE THE RIGHT-OF-WAY AT 100' INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH N:= NORTHING = TRANSFORMER (P)=PLATTHE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED PB= PLAT BOOK UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. = TREE UNKNOWN (UNLESS OTHERWISE NOTED) OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND PAYMENT IS INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1 "MOBILIZATION". PVC= POLYVINYL CHLORIDE SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE 0.47£A = WATER METER R = RADIUSCONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION = WATER VALVE RCP= REINFORCED CONCRETE PIPE OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS EXISTING TRAFFIC SIGNS SHALL REMAIN IN PLACE OR BE RELOCATED AS NEEDED = WATER VALVE BOX RT = RIGHTRESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. BY THE CONTRACTOR UNTIL THE NEW SIGNS ARE INSTALLED. = WATER VALVE COVER R/W= RIGHT OF WAY PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF ONCE THE NEW SIGNS HAVE BEEN INSTALLED, THE EXISTING SIGNS SW= SIDEWALK DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE ORANGE COUNTY = WIRING PULL BOX STA= STATION SIGN SHOP AT 4200 SOUTH JOHN YOUNG PARKWAY. COST OF RELOCATION, SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR ----BE--- = BURIED ELECTRIC LINE MAINTENANCE, REMOVAL, AND DELIVERY SHALL BE INCLUDED IN PAY ITEM 102-1, TOE= TOE OF SLOPE RESOLUTION. SUNSHINE STATE ONE CALL MUST BE NOTIFIED FOR LOCATES AT ---- G ---- = BURIED GAS LINE MAINTENANCE OF TRAFFIC. TOP= TOP OF BANK 1-800-432-4770. --- NPW ---- BURIED NON POTABLE/RECLAIM WATER LINE WIF= WROUGHT IRON FENCE ---- S ---- = BURIED SANITARY SEWER FORCE MAIN UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER. ALL EXISTING DRAINAGE PIPE AND STRUCTURES AND UTILITIES WITHIN THE ---- BT --- = BURIED TELEPHONE LINE LIMITS OF CONSTRUCTION ARE TO REMAIN UNLESS OTHERWISE NOTED. (16) THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO --- BTV ---- = BURIED TELEVISION LINE WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 553.851 AND · · · · W · · · · = BURIED WATER LINE INLET ELEVATIONS SHOWN IN THE PLANS REFER TO THE TOP OF THE GRATE 556.105 OF THE FLORIDA STATUTES. FOR DITCH BOTTOM INIFTS. --- OE ---- = OVERHEAD ELECTRIC/POWER LINE **REVISIONS** ORANGE COUNTY PUBLIC WORKS GTC Engineering Corporation DESCRIPTION DATE DESCRIPTION DATE 98 South Semoran Blvd, Orlando, FL 32807 GENERAL NOTES GTC PROJECT NO. OCPW PROJECT NO. Phone Number - 407,380,0402 TOWN CENTER BLVD. SIDEWALK/CURB RAMP INTERSECTION IMPROVEMENTS

Claude L. Cassagnol, P.E. P.E. Number 35490

FLO 20.11

Certificate of Authorization

Number 6758

GENERAL NOTES

6/3/2016

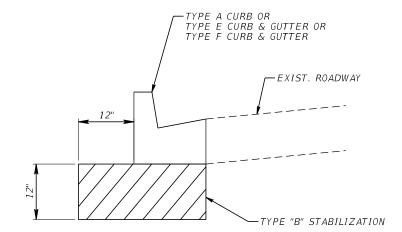
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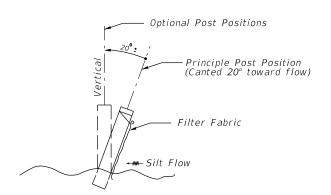
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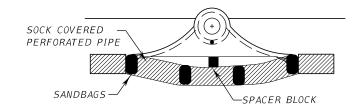
TYPE "B" STABILIZATION

DETAIL

N.T.S.



TYPE III SILT FENCE



CURB INLET SEDIMENT BARRIER

INLET PROTECTION HAS SPACER BLOCK TO ALLOW MORE FLOW TO GO
INTO INLET DURING CONSTRUCTION, TO BE USED IN AREAS WHERE INLET
PROTECTION COULD CAUSE FLOODING DURING LARGE RAINFALL AMOUNTS

CTCE	REVISIONS								
GTC Engineer	DESCRIPTION	DATE	DESCRIPTION	DATE					
98 South Semoran I Phone Numb									
Certificate of Authorization Number 6758									

GTC Engineering Corporation
98 South Semoran Blvd, Orlando, FL 32807
Phone Number - 407.380.0402

Claude L. Cassagnol, P.E. P.E. Number 35490

ORANGE COUNTY PUBLIC WORKS

GTC PROJECT NO. TOWN CENTER BLVD. OCPW PROJECT NO. SIDEWALK/CURB RAMP INTERSECTION IMPROVEMENTS 2722

STANDARD DRAWINGS AND DETAILS SHEET NO.

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SUMMARY OF PAY ITEMS DESCRIPTION INIT										
NUMBER	DESCRIPTION	UNIT	QUANTIT PLANS	FINAL						
101-1	MOBILIZATION	LS	1							
102-1	MAINTENANCE OF TRAFFIC	LS	1							
104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	L5	1							
110-1-1	CLEARING & GRUBBING	L5	1							
120-9	EXCAVATION, EMBANKMENT AND GRADING	L5	1							
160-4	TYPE "B" STABILIZATION (12") (MIN. LBR 40)	SY	419							
520-1-7	CONCRETE CURB & GUTTER (TYPE E)	LF	22							
520-1-10	CONCRETE CURB & GUTTER (TYPE F)	LF	975							
520-2-1	CONCRETE CURB (TYPE A)	LF	329							
522-1	SIDEWALK CONCRETE, 4" THICK	SY	808							
522-2	SIDEWALK CONCRETE, 6" THICK	SY	201							
527-2	DETECTABLE WARNINGS	SF	597.8							
570-1-2	PERFORMANCE TURF (SOD)	SY	1,420							
603-1	SIGNALIZATION	L5	1							
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	A5	3							
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	AS	1							
700-1-50	SINGLE POST SIGN, RELOCATE	AS	19							
706-3-1	RETRO REFLECTIVE PAVEMENT MARKERS (BI-DIRECTIONAL) (WHITE-RED)	EA	33							
711-11-123	SOLID TRAFFIC STRIPE (WHITE) (12") (THERMOPLASTIC)	LF	2,127							
711-11-125	SOLID TRAFFIC STRIPE (WHITE) (24") (THERMOPLASTIC)	LF	2,262							
711-11-241	THERMOPLASTIC, YELLOW, GUIDE LINE, 6" (2/4)	GM	0.031							
711-11-241	THERMOPLASTIC, YELLOW, GUIDE LINE, 6" (6/10)	GM	0.012							
711-15-101	THERMOPLASTIC, STD - OPEN GRADED ASPHALT SURFACE, WHITE, SOLID, 6"	GM	0.090							
711-15-201	THERMOPLASTIC, STD - OPEN GRADED ASPHALT SURFACE, YELLOW, SOLID, 6"	GM	0.025							
900-1	AS-BUILT PLANS	L5	1							
900-2	INDEMNIFICATION	LS	1							

PAY ITEM FOOTNOTES

- 102-1 INCLUDES ALL ITEMS OF MAINTENANCE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, THE DESIGN OF THE MAINTENANCE OF TRAFFIC PLAN BY THE CONTRACTOR AND APPROVAL OF THE PLANS BY ORANGE COUNTY TRAFFIC ENGINEERING AND HIGHWAY CONSTRUCTION. ALSO INCLUDES ALL TEMPORARY STRIPING, REMOVAL OF EXISTING AND TEMPORARY STRIPING VIA HYDRO BLASTING, SIGNING, FLAGGERS, ETC. REQUIRED TO MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD AND THE FDOT ROADWAY AND DESIGN STANDARDS, 2016 EDITION. ATTENTION IS DIRECTED TO THE 600 SERIES INDEX NUMBERS. NOTE THAT THE MAINTENANCE OF TRAFFIC PLAN SHOWN IN THE CONSTRUCTION PLANS IS FOR INFORMATION ONLY, FINAL PLAN TO BE SUBMITTED TO AND APPROVED BY THE COUNTY. THE MAINTENANCE OF TRAFFIC PLAN DONE BY THE CONTRACTOR SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- 104-14 INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION CONTROL INCLUDING, BUT NOT LIMITED TO SYNTHETIC BALES, TURBIDITY BARRIERS, SILT FENCES AND TEMPORARY GRASSING 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 CONCRETE CURBS, DRIVEWAYS, STRUCTURES, WALLS, BRICK WALLS, VARIOUS TYPES OF FENCES, CAPPING WELLS. REMOVAL AND DISPOSAL OF SEPTIC TANKS AND DRAIN FIELDS, UNDERGROUND STORAGE TANKS, PAVEMENT, BASE, AND TRIMMING OF TREES AND SHRUBS AS REQUIRED TO CONSTRUCT THE PROJECT. ALSO INCLUDES THE COST FOR SAWCUTTING EXISTING PAVEMENT OR CONCRETE AND TREE PROTECTION BARRICADES.
- 120-9 INCLUDES THE COST OF ALL EARTHWORK OPERATIONS TO CONSTRUCT THE PROJECT.
- 522-2 INCLUDES THE COST OF CURB RAMPS PER FDOT INDEX 304.
- INCLUDES THE COST OF SOD (MATCH EXISTING), PEGGING THE SOD, FERTILIZER AND WATER AS REQUIRED FOR ESTABLISHMENT OF PERMANENT SODDING. ALSO INCLUDES THE COST OF MOWING UNTIL FINAL PROJECT ACCEPTANCE BY THE COUNTY. SOD FOR POND SHALL BE SAND BASED.
- 603-1 SEE SIGNALIZATION SHEET NO. T-2 FOR SIGNALIZATION PAY ITEMS AND TABULATION OF QUANTITIES.

REVISIONS DESCRIPTION DESCRIPTION DATE DATE

GTC Engineering Corporation 98 South Semoran Blvd, Orlando, FL 32807 Phone Number - 407.380.0402

Certificate of Authorization Number 6758

Claude L. Cassagnol, P.E. P.E. Number 35490

ORANGE COUNTY PUBLIC WORKS

GTC PROJECT NO. TOWN CENTER BLVD. SIDEWALK/CURB RAMP INTERSECTION IMPROVEMENTS FLO 20.11

OCPW PROJECT NO. 2722

SUMMARY OF PAY ITEMS

SHEET NO.

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	SUMMARY OF TYPE "B" STABILIZATION													
LOCATION			TYF	PE "B" ST.	ABILIZAT	ION								
ECCATION	SIDE		Р		F			REMARKS	REFERENCE					
STATION		L	W	SY	L	W	SY	1						
22+12.93 T0 22+27.65	LT	16	3	5				AT HUNTERS CREEK BLVD. INTERSECTION						
22+14.45 T0 22+23.50	LT	11	2.333	3				AT HUNTERS CREEK BLVD. INTERSECTION						
22+14.45 T0 22+23.44	RT	11	2.333	3				AT HUNTERS CREEK BLVD. INTERSECTION						
22+03.60 T0 22+43.98	RT	58	3	19				AT HUNTERS CREEK BLVD. INTERSECTION						
22+37.57 T0 22+43.18	LT	16	3	5				AT HUNTERS CREEK BLVD. INTERSECTION						
22+68.31 T0 22+75.87	LT	13	2.333	3				AT HUNTERS CREEK BLVD. INTERSECTION						
22+68.95 T0 22+72.86	RT	10	2.333	3				AT HUNTERS CREEK BLVD. INTERSECTION						
22+79.24 T0 22+82.53	RT	10	2.333	3				AT HUNTERS CREEK BLVD. INTERSECTION						
22+95.20 T0 23+01.88	LT	13	2.333	3				AT HUNTERS CREEK BLVD. INTERSECTION						
23+19.83 T0 23+39.18	LT	17	3	6				AT HUNTERS CREEK BLVD. INTERSECTION						
23+19.44 T0 23+59.01	RT	58	3	19				AT HUNTERS CREEK BLVD. INTERSECTION						
23+39.18 T0 23+54.43	RT	15	3	5				AT HUNTERS CREEK BLVD. INTERSECTION						
23+51.94 TO 23+52.02	LT/RT	66	2.333	17				AT HUNTERS CREEK BLVD. INTERSECTION						
41+81.17 TO 42+20.42	LT	44	3	15				AT TOWN LOOP BLVD. INTERSECTION						
41+80.97 TO 42+27.65	RT	61	3	20				AT TOWN LOOP BLVD. INTERSECTION						
41+88.98 TO 41+98.41	LT	11	2.333	3				AT TOWN LOOP BLVD. INTERSECTION						
41+88.68 TO 41+98.36	RT	11	2.333	3				AT TOWN LOOP BLVD. INTERSECTION						
42+56.35 TO 42+58.51	RT	12	2.333	3				AT TOWN LOOP BLVD. INTERSECTION						
42+66.97 TO 42+69.54	RT	12	2.333	3				AT TOWN LOOP BLVD. INTERSECTION						
43+17.26 TO 43+55.54	LT	43	3	14				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION						
			3	22										
43+10.32 T0 43+61.48	RT	65						AT TOWN LOOP BLVD. INTERSECTION						
43+43.88 T0 43+52.90	LT	11	2.333	3				AT TOWN LOOP BLVD. INTERSECTION						
43+43.80 T0 43+53.56	RT	11	2.333	3				AT TOWN LOOP BLVD. INTERSECTION						
74+66.49 T0 75+47.55	LT	136	3	45				AT JOHN YOUNG PKWY. INTERSECTION						
75+20.43 T0 75+40.86	RT	41	3	14				AT JOHN YOUNG PKWY. INTERSECTION						
75+69.49 T0 75+72.40	RT	17	2.333	4				AT JOHN YOUNG PKWY. INTERSECTION						
75+74.56 T0 75+78.99	RT	14	2.333	4				AT JOHN YOUNG PKWY. INTERSECTION	***************************************					
75+72.40 T0 76+19.52	RT	50	2.333	13				AT JOHN YOUNG PKWY. INTERSECTION						
75+69.49 T0 76+20.83	RT	52	2.333	13				AT JOHN YOUNG PKWY. INTERSECTION						
76+15.77 T0 76+18.78	RT	14	2.333	4				AT JOHN YOUNG PKWY. INTERSECTION						
76+19.52 T0 76+20.83	RT	17	2.333	4				AT JOHN YOUNG PKWY. INTERSECTION						
76+64.64 T0 77+76.91	LT	184	3	61				AT JOHN YOUNG PKWY. INTERSECTION						
76+70.52 T0 77+85.84	RT	195	3	65				AT JOHN YOUNG PKWY. INTERSECTION						
76+95.07 T0 77+06.07	LT	11	3.25	4				AT JOHN YOUNG PKWY. INTERSECTION						
76+95.07 T0 77+06.07	RT	11	3.25	4				AT JOHN YOUNG PKWY. INTERSECTION						
TOTAL:				419										

	SU	IMMAR	Y OF	PERF	ORMA	NCE	TURF	- SOD
LOCATION	CIDE		Р			F		FIELD BOOK
STA. TO STA.	SIDE	L	W	SY	L	W	SY	REFERENCE
21+96.05 TO 22+13.27	RT	VARIES	VARIES	11				AT HUNTERS CREEK BLVD. INTERSECTION
21+96.21 T0 22+28.26 22+06.25 T0 22+16.50	RT LT	VARIES VARIES	VARIES VARIES	16 7				AT HUNTERS CREEK BLVD. INTERSECTION AT HUNTERS CREEK BLVD. INTERSECTION
22+14.10 TO 22+16.47	LT/RT	VARIES	VARIES	7				AT HUNTERS CREEK BLVD. INTERSECTION
22+21.44 T0 22+22.42 22+21.60 T0 22+37.30	LT/RT LT	VARIES VARIES	VARIES VARIES	6 14				AT HUNTERS CREEK BLVD. INTERSECTION AT HUNTERS CREEK BLVD. INTERSECTION
22+23.85 TO 22+32.62	RT	VARIES		4				AT HUNTERS CREEK BLVD. INTERSECTION
22+33.61 TO 22+41.65	LT	VARIES	VARIES	12				AT HUNTERS CREEK BLVD. INTERSECTION
22+34.92 T0 22+42.21 22+70.23 T0 22+81.25	RT RT	VARIES VARIES	VARIES VARIES	7 2				AT HUNTERS CREEK BLVD. INTERSECTION AT HUNTERS CREEK BLVD. INTERSECTION
22+70.58 TO 22+99.62	LT	VARIES	VARIES	6				AT HUNTERS CREEK BLVD. INTERSECTION
22+72.35 T0 22+79.48	LT	VARIES	VARIES	2				AT HUNTERS CREEK BLVD. INTERSECTION
22+75.64 TO 22+95.02	RT	VARIES	VARIES	7				AT HUNTERS CREEK BLVD. INTERSECTION
23+21.33 T0 23+29.08 23+21.88 T0 23+29.46	LT RT	VARIES VARIES	VARIES VARIES	7				AT HUNTERS CREEK BLVD. INTERSECTION AT HUNTERS CREEK BLVD. INTERSECTION
23+25.82 TO 23+45.00	LT	VARIES	VARIES	16				AT HUNTERS CREEK BLVD. INTERSECTION
23+30.97 TO 23+42.10	RT	VARIES	VARIES	4				AT HUNTERS CREEK BLVD. INTERSECTION
23+35.00 T0 23+63.05 23+45.00 T0 23+45.00	RT LT/RT	VARIES VARIES	VARIES VARIES	15 43				AT HUNTERS CREEK BLVD. INTERSECTION AT HUNTERS CREEK BLVD. INTERSECTION
23+49.96 TO 23+52.02	LT/RT	VARIES	VARIES	7				AT HUNTERS CREEK BLVD. INTERSECTION
23+50.09 T0 23+60.31	LT	VARIES	VARIES	6				AT HUNTERS CREEK BLVD. INTERSECTION
23+52.55 T0 23+62.96 41+67.08 T0 42+12.38	RT	VARIES VARIES	VARIES	5				AT HUNTERS CREEK BLVD. INTERSECTION
<i>41+67.08 T0 42+12.38 41+67.10 T0 41+90.88</i>	RT RT	VARIES	VARIES VARIES	24 16				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION
41+81.14 TO 42+07.62	LT	VARIES	VARIES	27				AT TOWN LOOP BLVD. INTERSECTION
41+81.15 TO 41+89.54	LT	VARIES	VARIES	4				AT TOWN LOOP BLVD. INTERSECTION
<i>41+88.47 TO 41+90.94 41+95.91 TO 41+97.33</i>	LT/RT LT/RT	VARIES VARIES	VARIES VARIES	8 9				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION
41+95.97 TO 42+14.11	RT	VARIES	VARIES	13				AT TOWN LOOP BLVD. INTERSECTION
41+97.38 TO 42+29.05	LT	VARIES	VARIES	50				AT TOWN LOOP BLVD. INTERSECTION
<i>42+12.33 T0 42+27.53 42+57.71 T0 42+68.17</i>	RT RT	VARIES VARIES	VARIES VARIES	27 2				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION
42+58.91 TO 42+66.56	RT	VARIES		3				AT TOWN LOOP BLVD. INTERSECTION
43+10.56 TO 43+25.55	RT	VARIES	VARIES	25				AT TOWN LOOP BLVD. INTERSECTION
<i>43+18.76 T0 43+36.20 43+23.93 T0 43+46.27</i>	LT RT	VARIES VARIES	VARIES VARIES	12 16				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION
43+29.46 TO 43+46.27	LT	VARIES	VARIES	8				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION
43+31.97 TO 43+61.12	LT	VARIES	VARIES	15				AT TOWN LOOP BLVD. INTERSECTION
43+44.86 TO 43+46.27	LT/RT	VARIES	VARIES	8				AT TOWN LOOP BLVD. INTERSECTION
43+51.18 T0 43+61.02 43+51.26 T0 43+53.80	LT/RT	VARIES VARIES	VARIES VARIES	8 8				AT TOWN LOOP BLVD. INTERSECTION AT TOWN LOOP BLVD. INTERSECTION
43+51.36 TO 43+68.19	RT	VARIES	VARIES	10				AT TOWN LOOP BLVD. INTERSECTION
74+59.42 T0 75+22.19	RT	VARIES		72				AT JOHN YOUNG PKWY. INTERSECTION
74+59.42 T0 75+22.91 74+92.12 T0 75+21.78	RT LT	VARIES VARIES	VARIES	29 42				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
75+00.68 TO 75+28.28	LT	VARIES		23				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
75+06.87 T0 75+22.19	LT	VARIES		18				AT JOHN YOUNG PKWY. INTERSECTION
75+29.19 T0 75+38.37 75+29.19 T0 75+45.81	LT LT		VARIES VARIES	6 88				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
75+29.19 TO 75+35.75	RT	VARIES		6				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
75+29.19 T0 75+39.63	RT	VARIES	VARIES	10				AT JOHN YOUNG PKWY. INTERSECTION
75+70.82 T0 76+19.51	RT	VARIES		17				AT JOHN YOUNG PKWY, INTERSECTION
75+73.22 T0 76+18.50 75+98.33 T0 76+30.16	RT LT	VARIES VARIES	VARIES	105 10				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
75+99.19 T0 76+27.68	LT	VARIES		8				AT JOHN YOUNG PKWY. INTERSECTION
76+66.60 TO 76+97.07	LT	VARIES		147				AT JOHN YOUNG PKWY. INTERSECTION
76+73.13 T0 76+97.07 76+74.47 T0 76+97.07	RT RT	VARIES VARIES		52 63				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
76+83.00 TO 76+97.07	LT	VARIES		7				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
76+84.40 TO 77+09.07	LT	VARIES	VARIES	15				AT JOHN YOUNG PKWY. INTERSECTION
76+88.29 T0 76+97.07 77+04.07 T0 77+76.77	RT	VARIES		9 106				AT JOHN YOUNG PKWY. INTERSECTION
77+04.07 T0 77+76.77 77+04.07 T0 77+06.07	LT RT	VARIES VARIES	VARIES	3				AT JOHN YOUNG PKWY. INTERSECTION AT JOHN YOUNG PKWY. INTERSECTION
77+04.07 T0 77+85.69	RT	VARIES		86				AT JOHN YOUNG PKWY. INTERSECTION
TOTAL	ļ			1 4 2 2				ļ
TOTAL:				1420				

	REVIS	SIONS		CTC E
DATE	DESCRIPTION	DATE	DESCRIPTION	GTC Engineer
				98 South Semoran I Phone Numb
				Certificate of Authorization Number 6758

GTC Engineering Corporation

98 South Semoran Bivd, Orlando, FL 32807
Phone Number - 407.380.0402

GTC PROJECT NO. TOWN CENTER BLVD. OCPW PROJECT NO.

mdo, FL 32807 80.0402 GTC PROJECT N Claude L. Cassagnol, P.E. P.E. Number 35490 FLO 20.11

GTC PROJECT NO. TOWN CENTER BLVD. SIDEWALK/CURB RAMP INTERSECTION IMPROVEMENTS 2722

SUMMARY OF QUANTITIES

SHEET NO.

5

 LOSO.II—TCB\roadway\SUMQRDOI.L

	SU	MMAR	Y OF S	SIDEV	NALK	(4") &	DET	ECTAB	LE W	ARNINGS
LOCATION		CONCRETE SIDEWALK						DETEC WARN		
2007117011	SIDE		Р			F		Р	F	FIELD BOOK
STA. TO STA.		L	W	5Y	L	W	SY	SF	SF	REFERENCE
21+96.22 TO 22+35.04	RT	VARIES	VARIES	39						AT HUNTERS CREEK BLVD. INTERSECTION
22+06.30 T0 22+35.75	LT	VARIES	VARIES	34						AT HUNTERS CREEK BLVD. INTERSECTION
22+16.44 TO 22+21.49	LT/RT	VARIES	VARIES	14				27.5		AT HUNTERS CREEK BLVD. INTERSECTION
22+70.58 TO 22+80.83	RT	VARIES	VARIES	5				21.2		AT HUNTERS CREEK BLVD. INTERSECTION
22+71.08 TO 22+99.08	LT	VARIES	VARIES	19				33.9		AT HUNTERS CREEK BLVD. INTERSECTION
23+27.46 TO 23+60.35	LT	VARIES	VARIES	36						AT HUNTERS CREEK BLVD. INTERSECTION
23+27.99 T0 23+63.02	RT	VARIES	VARIES	35						AT HUNTERS CREEK BLVD. INTERSECTION
23+45.00 TO 23+50.01	LT/RT	VARIES	VARIES	17				20.0		AT HUNTERS CREEK BLVD. INTERSECTION
41+67.09 TO 42+19.60	RT	VARIES	VARIES	62						AT TOWN LOOP BLVD. INTERSECTION
41+81.17 TO 42+12.50	LT	VARIES	VARIES	33						AT TOWN LOOP BLVD. INTERSECTION
41+90.92 TO 41+95.93	LT/RT	VARIES	VARIES	15				23.7		AT TOWN LOOP BLVD. INTERSECTION
42+57.94 TO 42+67.87	RT	VARIES	VARIES	7				28.4		AT TOWN LOOP BLVD. INTERSECTION
43+20.03 TO 43+68.19	RT	VARIES	VARIES	54						AT TOWN LOOP BLVD. INTERSECTION
43+29.54 TO 43+61.07	LT	VARIES	VARIES	28						AT TOWN LOOP BLVD. INTERSECTION
43+46.27 TO 43+51.30	LT/RT	VARIES	VARIES	15				25.1		AT TOWN LOOP BLVD. INTERSECTION
74+59.42 TO 75+29.95	RT	VARIES	VARIES	67						AT JOHN YOUNG PKWY. INTERSECTION
74+92.12 T0 75+35.28	LT	VARIES	VARIES	101						AT JOHN YOUNG PKWY. INTERSECTION
75+70.61 T0 76+20.24	RT	VARIES	VARIES	38				28.0		AT JOHN YOUNG PKWY. INTERSECTION
75+98.46 T0 76+29.41	LT	VARIES	VARIES	23				28.0		AT JOHN YOUNG PKWY. INTERSECTION
76+77.43 TO 77+09.07	LT	VARIES	VARIES	61						AT JOHN YOUNG PKWY. INTERSECTION
76+79.67 TO 77+33.54	RT	VARIES	VARIES	97						AT JOHN YOUNG PKWY. INTERSECTION
76+97.07 TO 77+04.07	RT	VARIES	VARIES	9				28.0		AT JOHN YOUNG PKWY. INTERSECTION
75+21.95 T0 75+29.35	LT/RT	*	*	*				29.0		AT JOHN YOUNG PKWY. INTERSECTION
TOTAL:				808				292.8		

	SU	MMAR	Y OF	SIDEV	VALK	(6") &	DET	ECTAB	LE W	ARNINGS
LOCATION		CONCRETE SIDEWALK							TABLE INGS	
2007.117011	SIDE		Ρ		F			Р	F	FIELD BOOK
STA. TO STA.		L	W	SY	L	W	SY	SF	SF	REFERENCE
22+09.98 T0 22+26.83	RT	VARIES	VARIES	10				11.5		AT HUNTERS CREEK BLVD. INTERSECTION
22+15.43 TO 22+24.21	LT	VARIES	VARIES	6				10.4		AT HUNTERS CREEK BLVD. INTERSECTION
22+28.44 TO 22+41.40	RT	VARIES	VARIES	10				11.5		AT HUNTERS CREEK BLVD. INTERSECTION
22+32.04 TO 22+41.22	LT	VARIES	VARIES	6				13.9		AT HUNTERS CREEK BLVD. INTERSECTION
23+21.78 TO 23+31.00	LT	VARIES	VARIES	6				13.9		AT HUNTERS CREEK BLVD. INTERSECTION
23+22.07 T0 23+34.78	RT	VARIES	VARIES	10				11.3		AT HUNTERS CREEK BLVD. INTERSECTION
23+39.21 TO 23+56.46	RT	VARIES	VARIES	9				11.3		AT HUNTERS CREEK BLVD. INTERSECTION
23+42.70 TO 23+51.44	LT	<i>VARIES</i>	VARIES	5				14.6		AT HUNTERS CREEK BLVD. INTERSECTION
41+83.90 TO 42+02.41	RT	<i>VARIES</i>	VARIES	11				10.5		AT TOWN LOOP BLVD. INTERSECTION
41+84.10 TO 42+02.35	LT	<i>VARIES</i>	VARIES	10				10.3		AT TOWN LOOP BLVD. INTERSECTION
42+00.82 TO 42+17.32	LT	<i>VARIES</i>	VARIES	10				17.7		AT TOWN LOOP BLVD. INTERSECTION
42+08.18 TO 42+24.73	RT	<i>VARIES</i>	VARIES	12				12.0		AT TOWN LOOP BLVD. INTERSECTION
43+13.25 TO 43+29.68	RT	VARIES	VARIES	12				12.0		AT TOWN LOOP BLVD. INTERSECTION
43+20.36 TO 43+36.34	LT	VARIES	VARIES	10				16.7		AT TOWN LOOP BLVD. INTERSECTION
43+39.58 TO 43+58.43	RT	VARIES	VARIES	10				10.3		AT TOWN LOOP BLVD. INTERSECTION
43+44.37 TO 43+52.61	LT	<i>VARIES</i>	VARIES	4				8.9		AT TOWN LOOP BLVD. INTERSECTION
75+21.45 TO 75+29.19	LT	<i>VARIES</i>	VARIES	8				12.5		AT JOHN YOUNG PKWY. INTERSECTION
75+21.64 TO 75+29.19	RT	<i>VARIES</i>	VARIES	9				15.2		AT JOHN YOUNG PKWY. INTERSECTION
75+29.19 T0 75+38.85	RT	<i>VARIES</i>	VARIES	7				13.4		AT JOHN YOUNG PKWY. INTERSECTION
75+31.37 T0 75+42.62	LT	VARIES	VARIES	7				11.1		AT JOHN YOUNG PKWY. INTERSECTION
76+73.48 TO 76+81.33	RT	VARIES	VARIES	6				12.7		AT JOHN YOUNG PKWY. INTERSECTION
76+75.59 TO 76+90.00	LT	VARIES	VARIES	9				14.2		AT JOHN YOUNG PKWY. INTERSECTION
76+94.42 TO 77+05.03	RT	VARIES	VARIES	8				15.3		AT JOHN YOUNG PKWY. INTERSECTION
76+94.75 TO 77+05.27	LT	VARIES	VARIES	7.1				13.8	_	AT JOHN YOUNG PKWY. INTERSECTION
TOTAL:				201				305.0		

SUMMARY OF CURB AND GUTTER TYPE E													
LOCATION	SIDE		PE E TH (FT)	REMARKS	FIELD BOOK								
STATION	SIDE	Р	F	NEMANS	REFERENCE								
76+95.07 TO 77+06.07	LT	11		AT JOHN YOUNG PKWY. INTERSECTION									
76+95.07 TO 77+06.07	RT	11		AT JOHN YOUNG PKWY. INTERSECTION									
TOTAL:		22											

SUMMARY OF CURB TYPE F													
LOC AT ION	SIDE		E F H (FT)	REMARKS	FIELD BOOK								
STATION	3,52	Р	F	NEIWING	REFERENCE								
22+12.93 T0 22+27.65	LT	16		AT HUNTERS CREEK BLVD. INTERSECTION									
22+03.60 TO 22+43.98	RT	58		AT HUNTERS CREEK BLVD. INTERSECTION									
22+37.57 TO 22+43.18	LT	16		AT HUNTERS CREEK BLVD. INTERSECTION									
22+68.31 TO 22+75.87	LT	13		AT HUNTERS CREEK BLVD. INTERSECTION									
22+95.20 TO 23+01.88	LT	13		AT HUNTERS CREEK BLVD. INTERSECTION									
23+19.83 TO 23+39.18	LT	17		AT HUNTERS CREEK BLVD. INTERSECTION									
23+19.44 TO 23+25.57	RT	58		AT HUNTERS CREEK BLVD. INTERSECTION									
23+39.18 TO 23+54.43	LT	15		AT HUNTERS CREEK BLVD. INTERSECTION									
41+81.17 TO 42+20.42	LT	44		AT TOWN LOOP BLVD. INTERSECTION									
41+80.97 T0 42+27.65	RT	61		AT TOWN LOOP BLVD. INTERSECTION									
43+17.26 TO 43+55.54	LT	43		AT TOWN LOOP BLVD. INTERSECTION									
43+10.32 TO 43+61.48	RT	65		AT TOWN LOOP BLVD. INTERSECTION									
74+66.49 TO 75+47.55	LT	136		AT JOHN YOUNG PKWY. INTERSECTION									
75+20.43 TO 75+40.86	RT	41		AT JOHN YOUNG PKWY. INTERSECTION									
76+64.64 TO 77+76.91	LT	184		AT JOHN YOUNG PKWY. INTERSECTION									
76+70.52 TO 77+85.84	RT	195		AT JOHN YOUNG PKWY. INTERSECTION									
TOTAL:		975			·								

		CIINAN	4 A D)/	OF CURB TYPE A	
		SUMN	MARY	OF CURB TYPE A	
LOCATION	SIDE		E A TH (FT)	REMARKS	FIELD BOOK
STATION	SIDE	Р	F	NEDANKS	REFERENCE
22+14.45 TO 22+14.45	LT/RT	41		AT HUNTERS CREEK BLVD. INTERSECTION	
22+68.95 T0 22+82.53	RT	27		AT HUNTERS CREEK BLVD. INTERSECTION	
23+51.94 T0 23+52.02	LT/RT	66		AT HUNTERS CREEK BLVD. INTERSECTION	
41+88.98 TO 41+88.68	LT/RT	45		AT TOWN LOOP BLVD. INTERSECTION	
42+56.35 TO 42+69.54	RT	32		AT TOWN LOOP BLVD. INTERSECTION	
43+52.90 TO 43+53.56	LT/RT	44		AT TOWN LOOP BLVD. INTERSECTION	
75+69.49 TO 75+78.99	RT	38		AT JOHN YOUNG PKWY. INTERSECTION	
76+15.77 T0 76+20.83	RT	36		AT JOHN YOUNG PKWY. INTERSECTION	
TOTAL:		329			

1,			SIONS	REVI	
10	ineering Corporation	DESCRIPTION	DATE	DESCRIPTION	DATE
	Semoran Blvd, Orlando, FL 32807				
G	one Number - 407.380.0402				
	ization Claude L. Cassagnol, P.E. P.E. Number 35490				

GTC Engineering Corporation	
98 South Semoran Blvd, Orlando, FL 32807	

ORANGE COUNTY PUBLIC WORKS

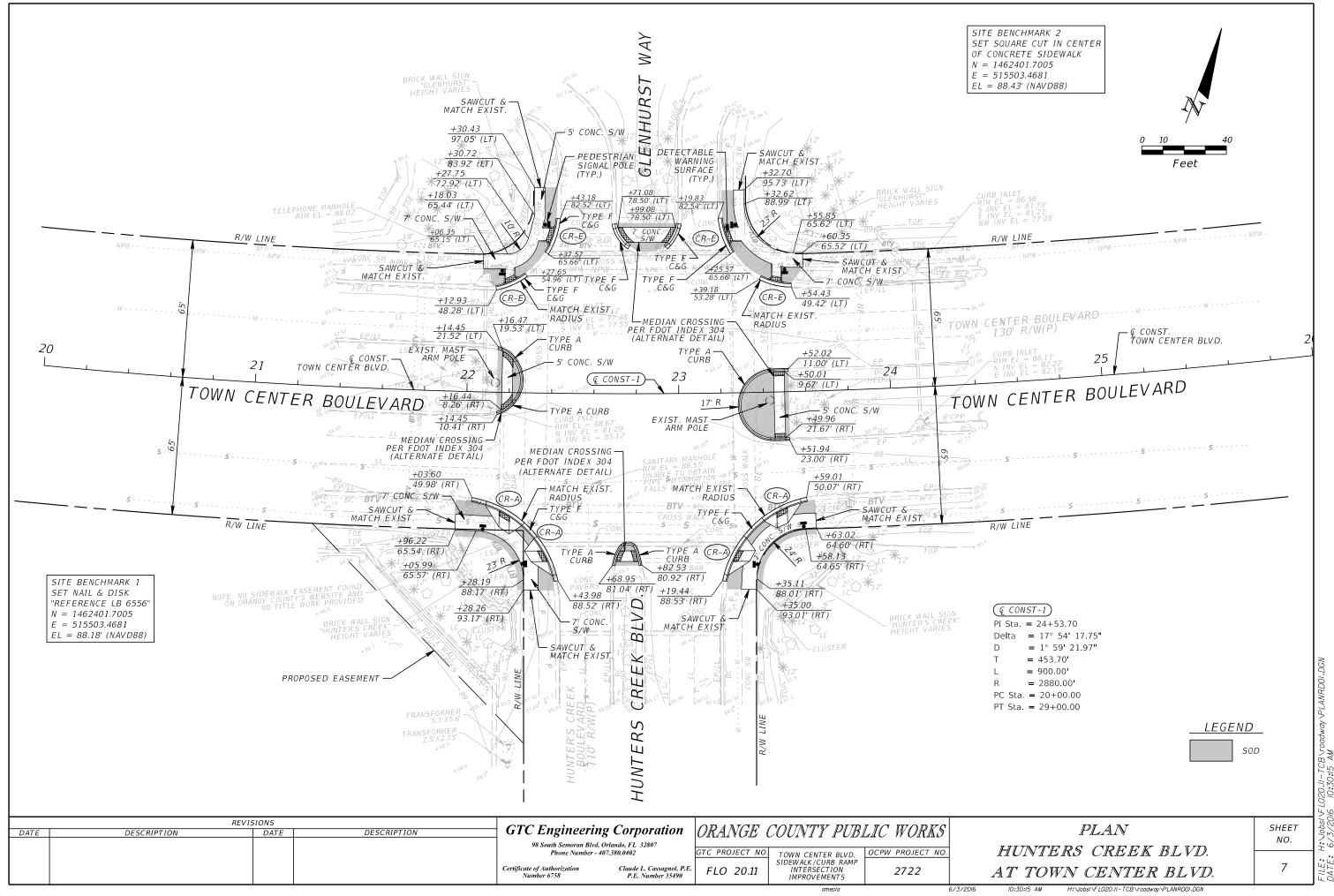
TOWN CENTER BLVD. OCPW PROJECT NO.
SIDEWALK/CURB RAMP
INTERSECTION
IMPROVEMENTS 2722 GTC PROJECT NO. FLO 20.11

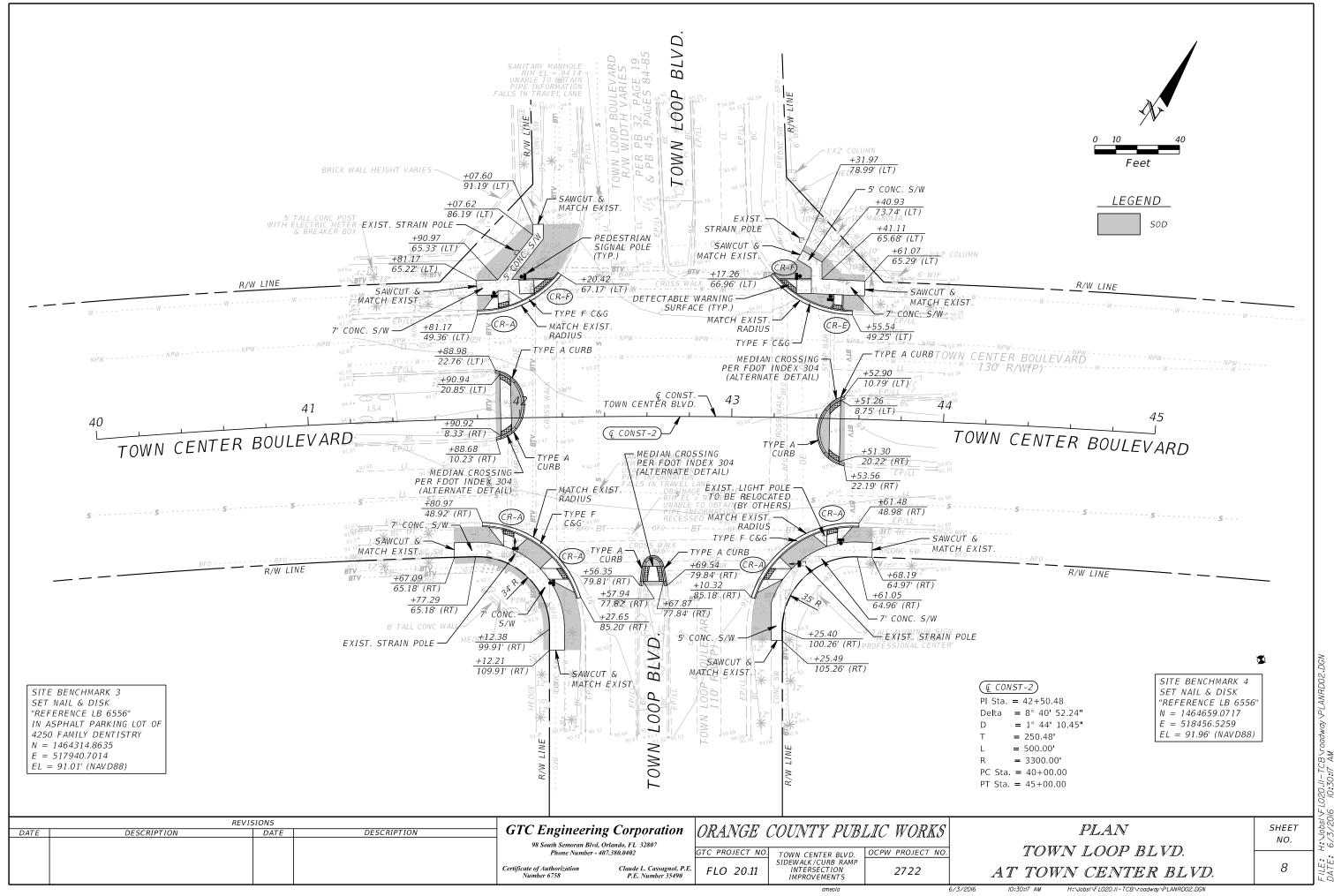
SUMMARY OF QUANTITIES

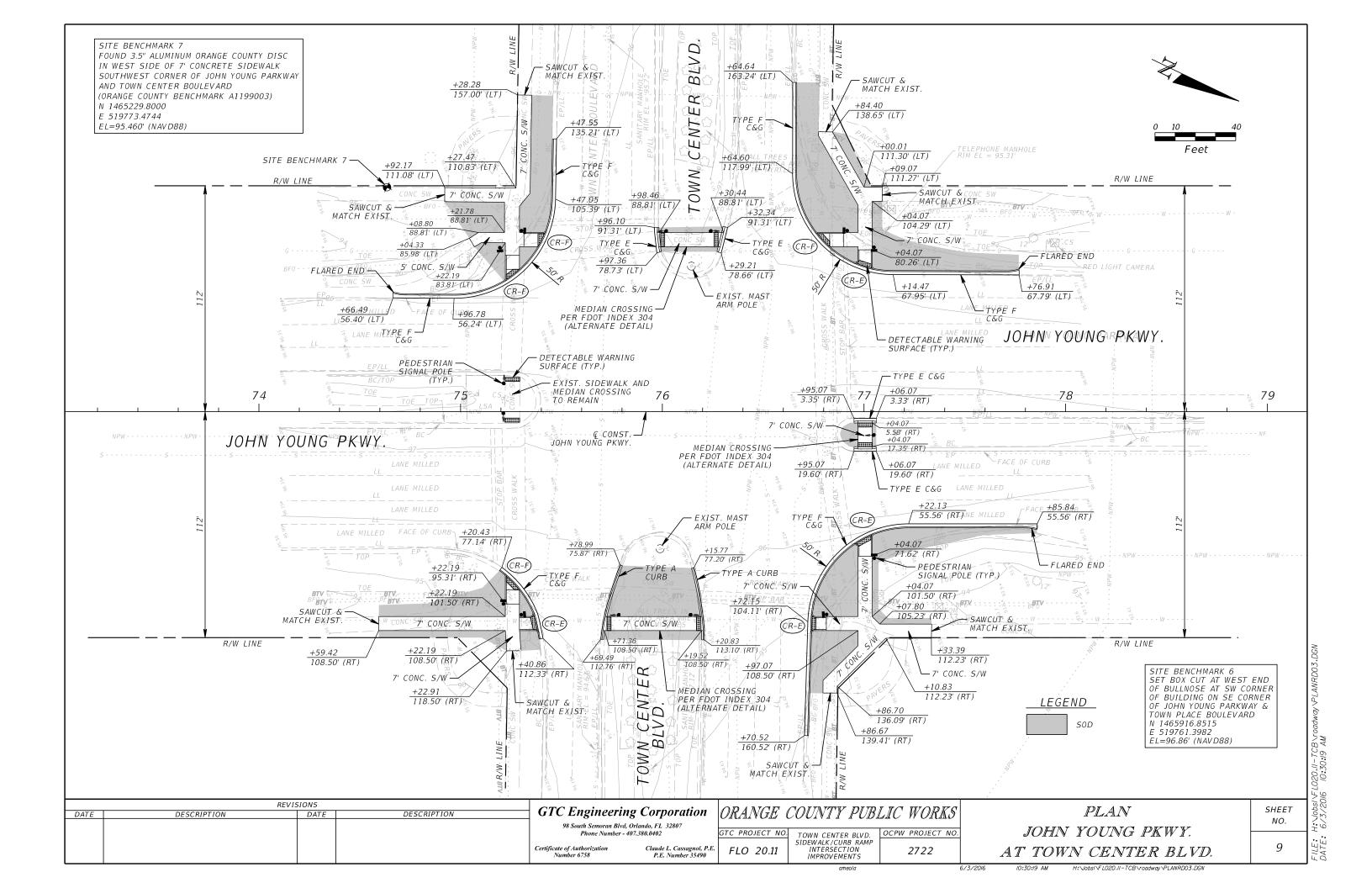
SHEET NO.

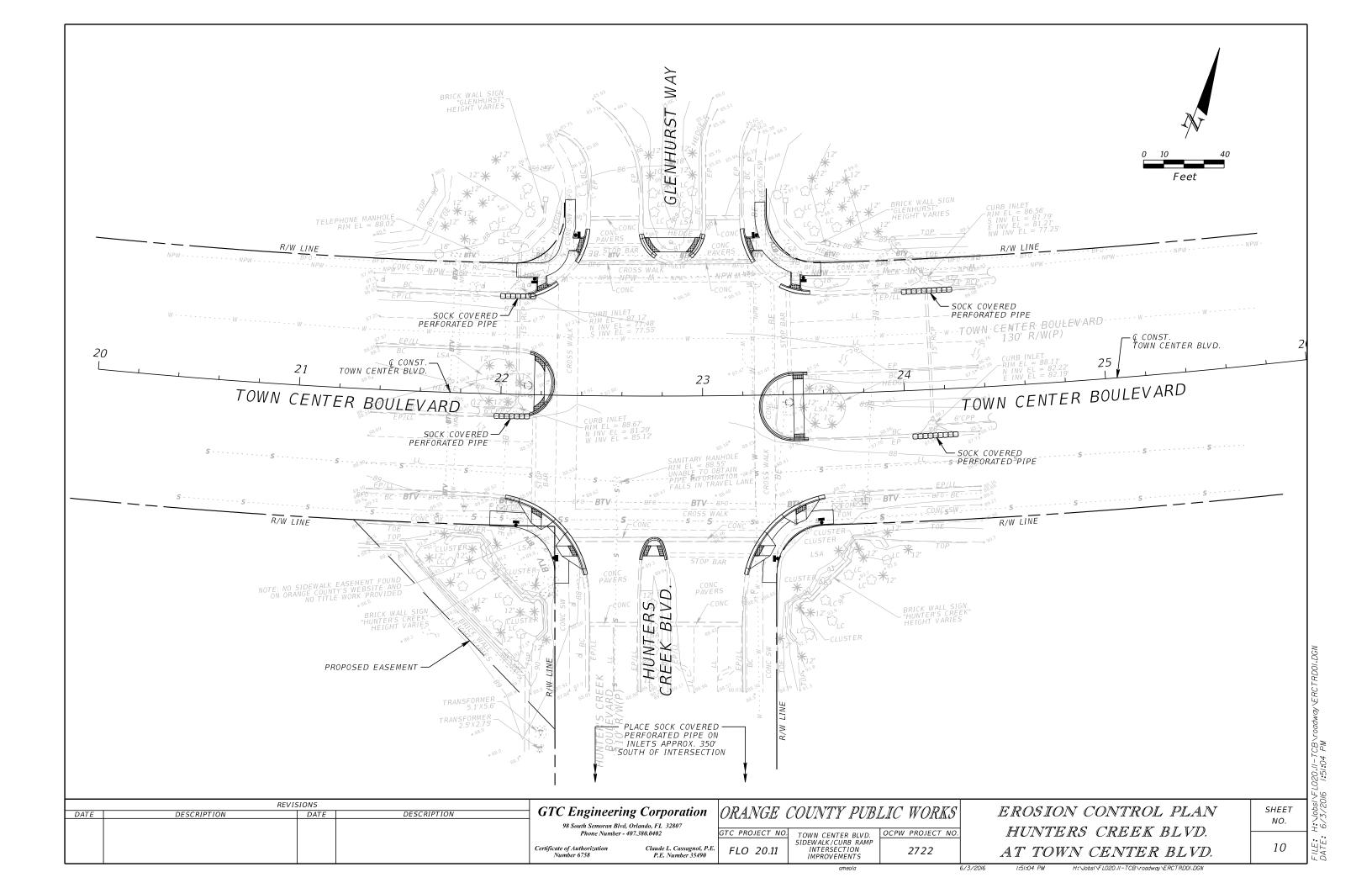
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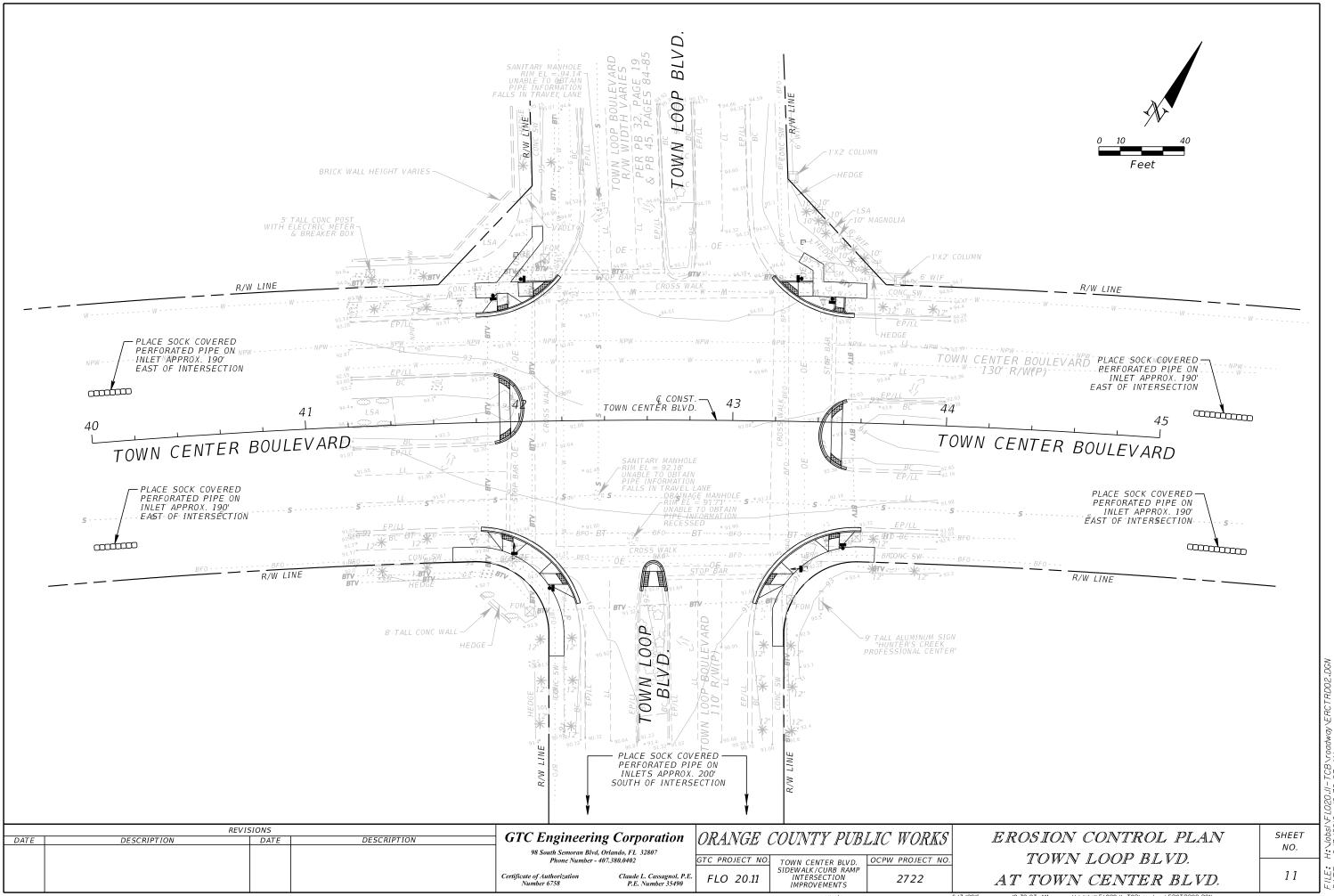
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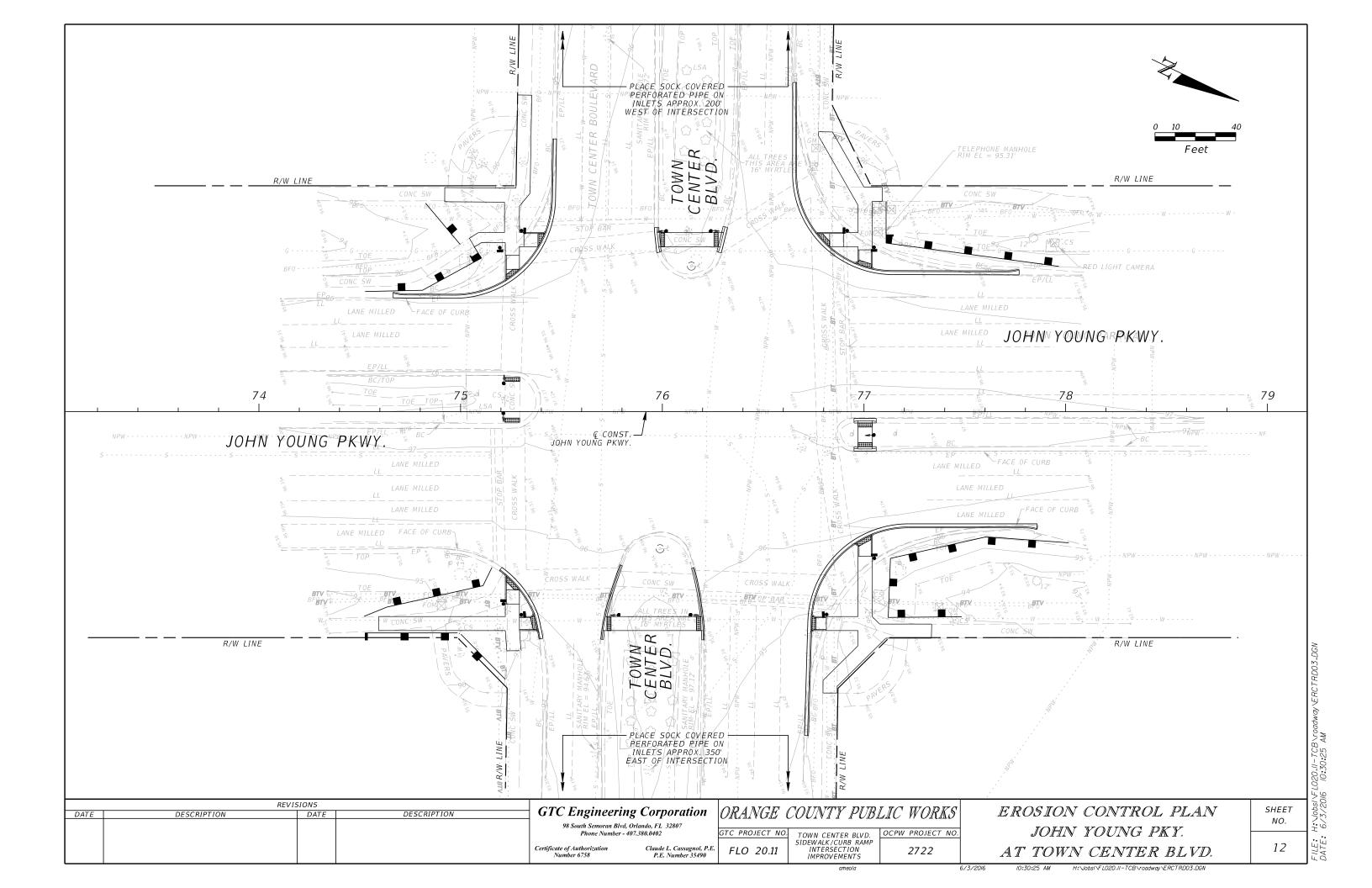


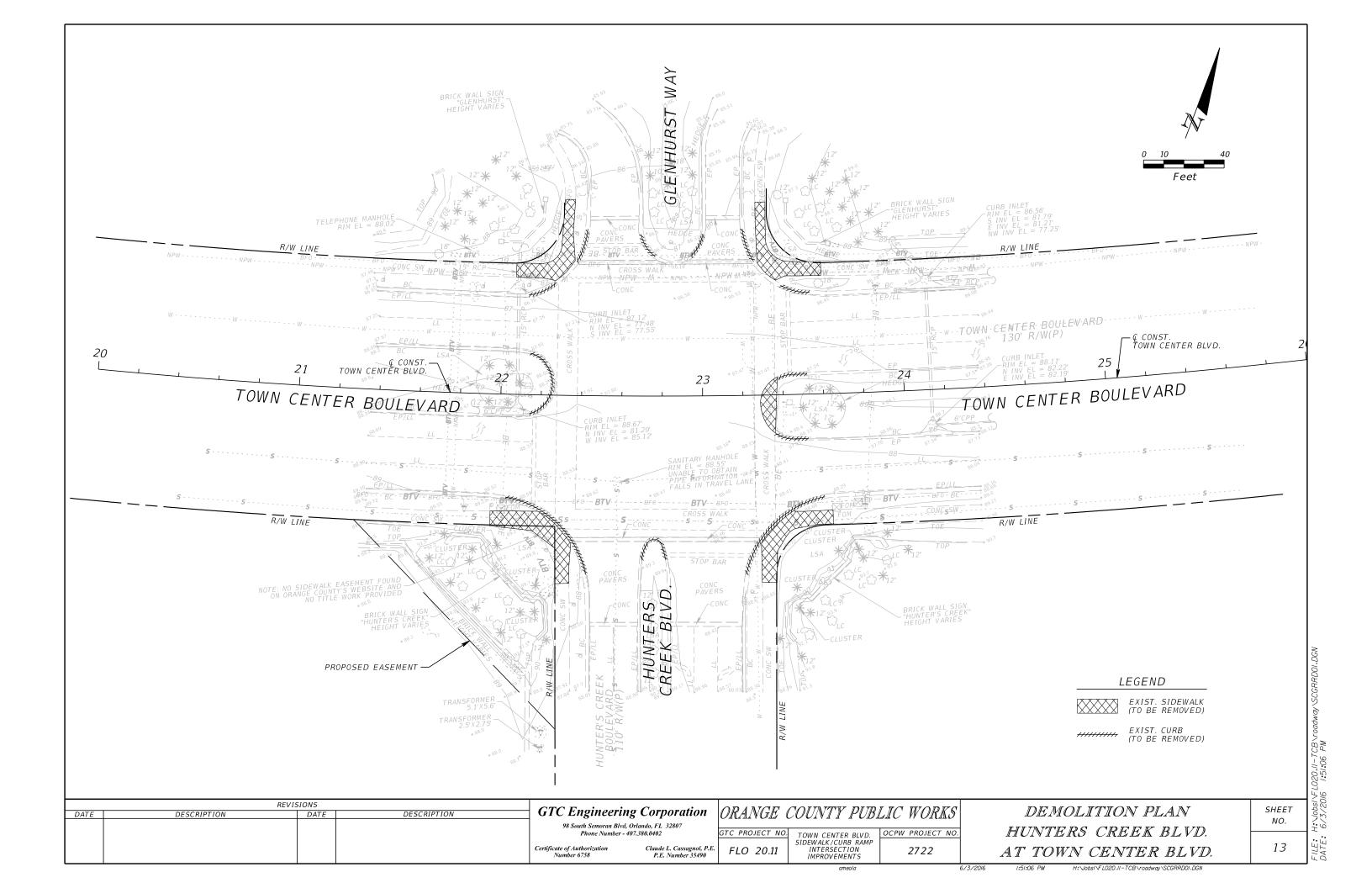


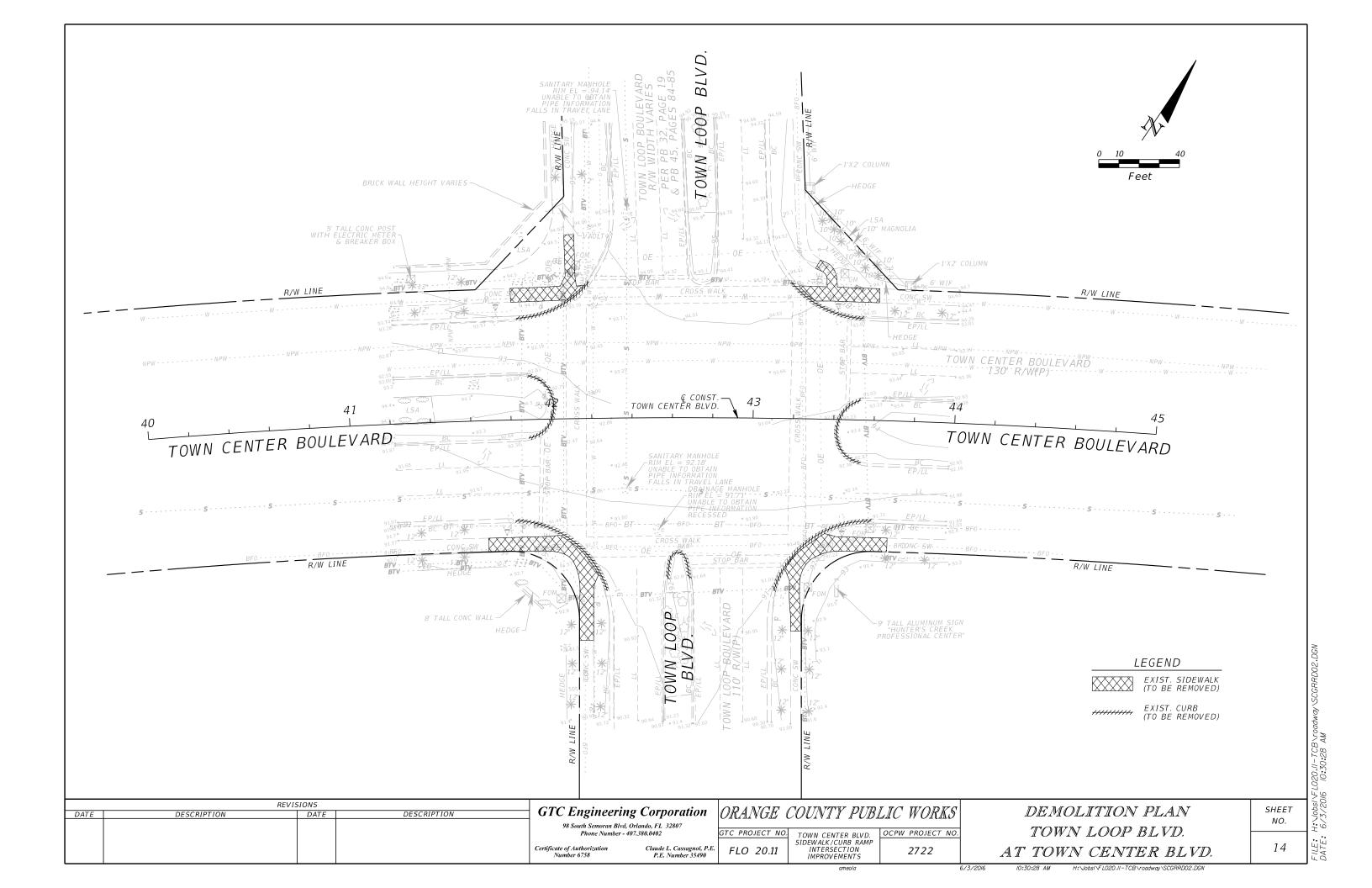


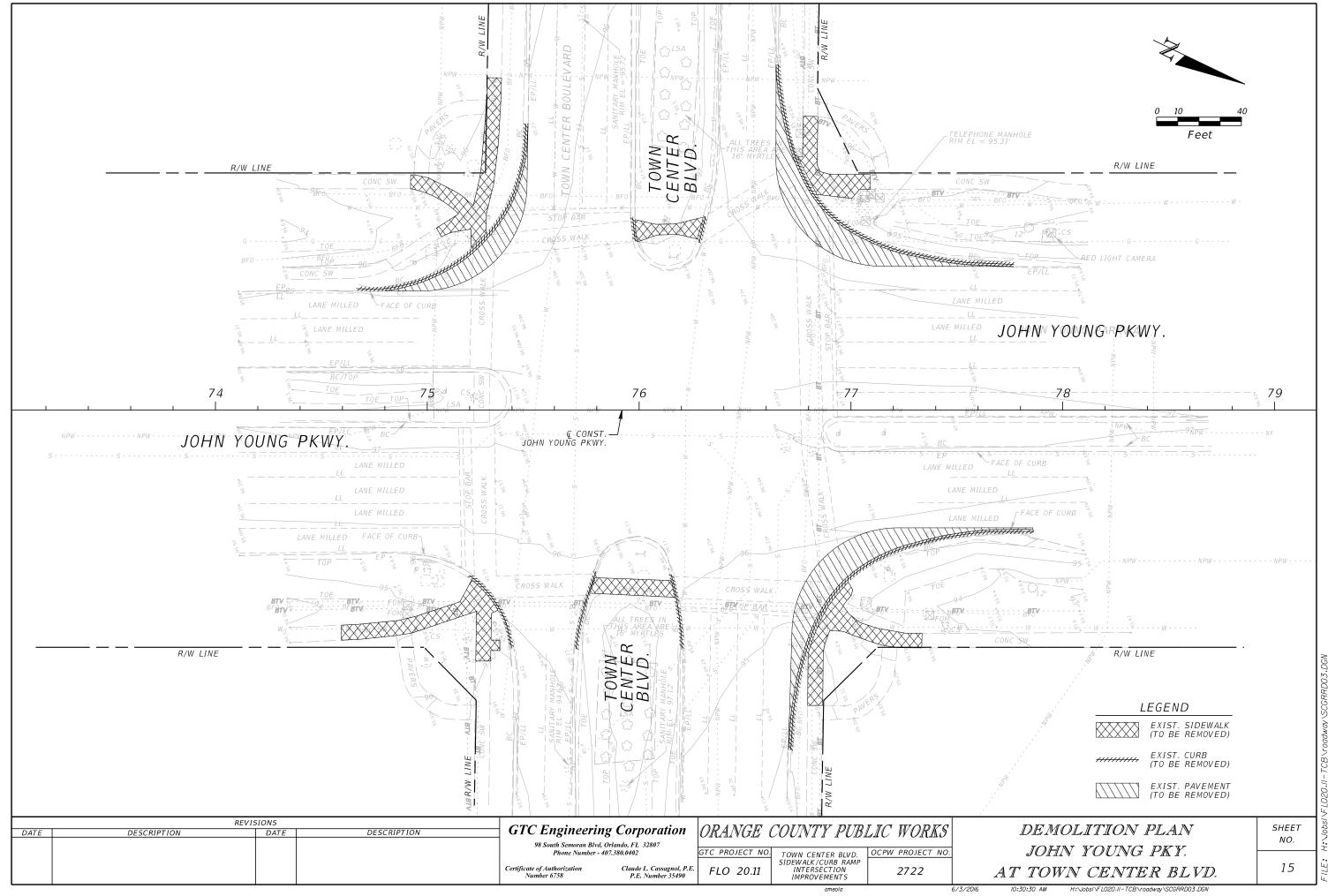












TABULATION OF QUANTITIES

PAY ITEM	DESCRIPTION		THIS TO											RAND OT AL				
NO.	DESCRIPTION	ONT	S - 2	5-3		S	- 4								SH	EET		
			PLAN FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN F	INAL PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINA
0-1-11	SINGLE POST SIGN, F&I GM, <12 SF	AS	-	3		-								-	3		3	
0-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	AS.	-	1		-			-						1		1	
0-1-50	SINGLE POST SIGN, RELOCATE	AS	6	4		9			-						19		19	
6-3-1	RETRO REFLECTIVE PAVEMENT MARKERS (BI-DIRECTIONAL) (WHITE-RED)	EA	6	11		16			-						33		33	
	THERMOPLASTIC, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	557	681		889									2127		2127	
	THERMOPLASTIC, WHITE, SOLID FOR STOP LINE AND CROSSWALK, 24"	LF	586	722		954									2262		2262	
	THERMOPLASTIC, YELLOW, GUIDE LINE, 6" (2/4)	GM	0.022	0.009		_									0.031		0.031	
	THERMOPLASTIC, YELLOW, GUIDE LINE, 6" (6/10)	GM	0.012	_		_									0.012		0.012	
	THERMOPLASTIC, STD - OPEN GRADED ASPHALT SURFACE, WHITE, SOLID, 6"	GM	-	_		0.090									0.090		0.090	
1-15-201	THERMOPLASTIC, STD - OPEN GRADED ASPHALT SURFACE, YELLOW, SOLID, 6"	GM	0.014	-		0.011									0.025		0.025	5
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SIGNING AND PAVEMENT MARKING NOTES

- 1. FOR PAVEMENT MARKING AND SIGN INSTALLATION DETAILS REFER TO FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, DATED 2016.
- 2. ALL THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE ALKYD BASED THERMOPLASTIC.
- 3. ALL SURFACES SHALL BE CLEANED PRIOR TO THE START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
- 4. ALL STRIPING SHALL BE APPLIED BEFORE REFLECTIVE PAVEMENT MARKERS ARE APPLIED.
- 5. FOR SIGN DETAILS REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PUBLISHED BY U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION 2009.
- 6. ALL SIGNS SHALL BE LOCATED IN ACCORDANCE WITH HORIZONTAL CLEARANCES (CLEAR ZONES) AS SPECIFIED IN THE F.D.O.T. PLANS PREPARATION MANUAL.
- 7. FOR REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS, REFER TO FDOT DESIGN STANDARDS, INDEX NO. 17352.
- 8. BITUMINOUS ADHESIVE SHALL BE USED TO SET REFLECTIVE PAVEMENT MARKERS ON ALL ASPHALT SURFACES.
- 9. THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD. TEMPORARY PAINT PAVEMENT MARKINGS SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICES FOR THERMOPLASTIC PAVEMENT MARKINGS.
- 10. ALL EXISTING SIGNS SHALL BE MAINTAINED EXCEPT THOSE NOTED IN THE PLANS TO BE REPLACED OR RELOCATED.
- 11. ALL SIGNS SHALL BE CONSTRUCTED WITH TYPE XI (DG 3) REFLECTIVE SHEETING.
- 12. SIGN POSTS NOT REQUIRING A SLIP BASE AND FOOTING SHALL BE A MINIMUM 14 GAUGE 2"X 2"SQUARE WELDED STEEL WITH 3/8"KNOCKOUTS ON 1"CENTERS ON ALL FOUR SIDES. THE POSTS SHALL BE SEALED WITH A POLYMER TOPCOAT.

PAY ITEM FOOTNOTES:

102-1 THIS PAY ITEM NUMBER IS TO INCLUDE THE REMOVAL AND REPLACEMENT OF ALL (SEE SHEET NO. 4) EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS. IF SIGNS ARE DAMAGED BY THE CONTRACTOR, THE SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S

706-3-X INCLUDES THE REMOVAL OF ALL EXISTING RPM'S WITHIN THE LIMITS OF THE PROJECT OPERATION AND IS INCIDENTAL TO PAY ITEM NUMBER 706-3-X.

	CTCE		VISIONS	REVI	
ring Corporation 🛛 🖰	GTC Engineering	DESCRIPTION	DATE	DESCRIPTION	DATE
Blvd, Orlando, FL 32807 ber - 407.380.0402	98 South Semoran Blvd, 6 Phone Number - 40				
Claude L. Cassagnol, P.E. P.E. Number 35490	Certificate of Authorization Number 6758				

!	ORANGE (LIC	WORK	KS	4	
	GTC PROJECT NO.	TOWN CENTER BLVD.	OCPW	PROJECT	NO.	
P.E.	FLO 20.11	SIDEWALK/CURB RAMP INTERSECTION IMPROVEMENTS		2722		

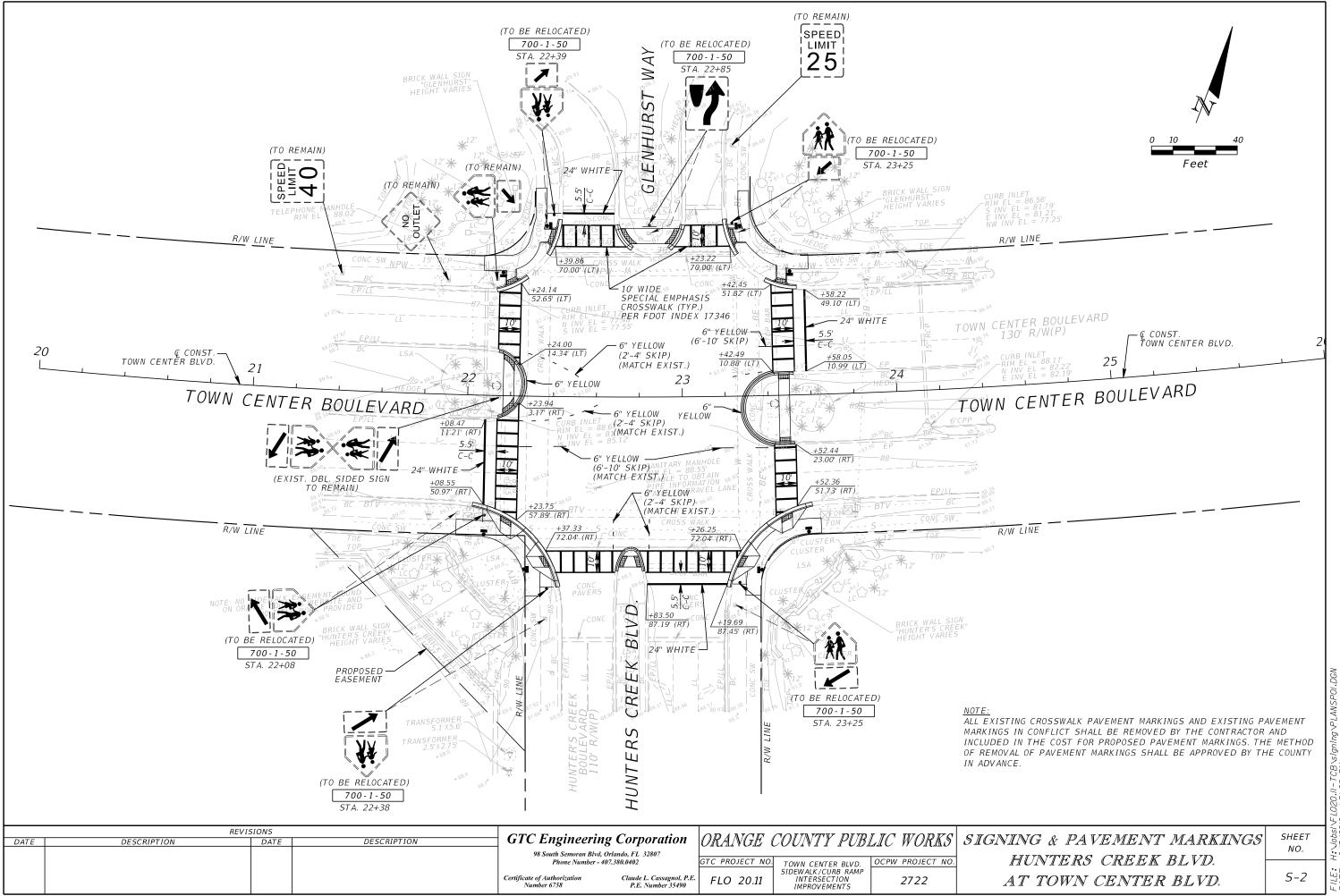
SIGNING & PAVEMENT MARKINGS TABULATION OF QUANTITIES

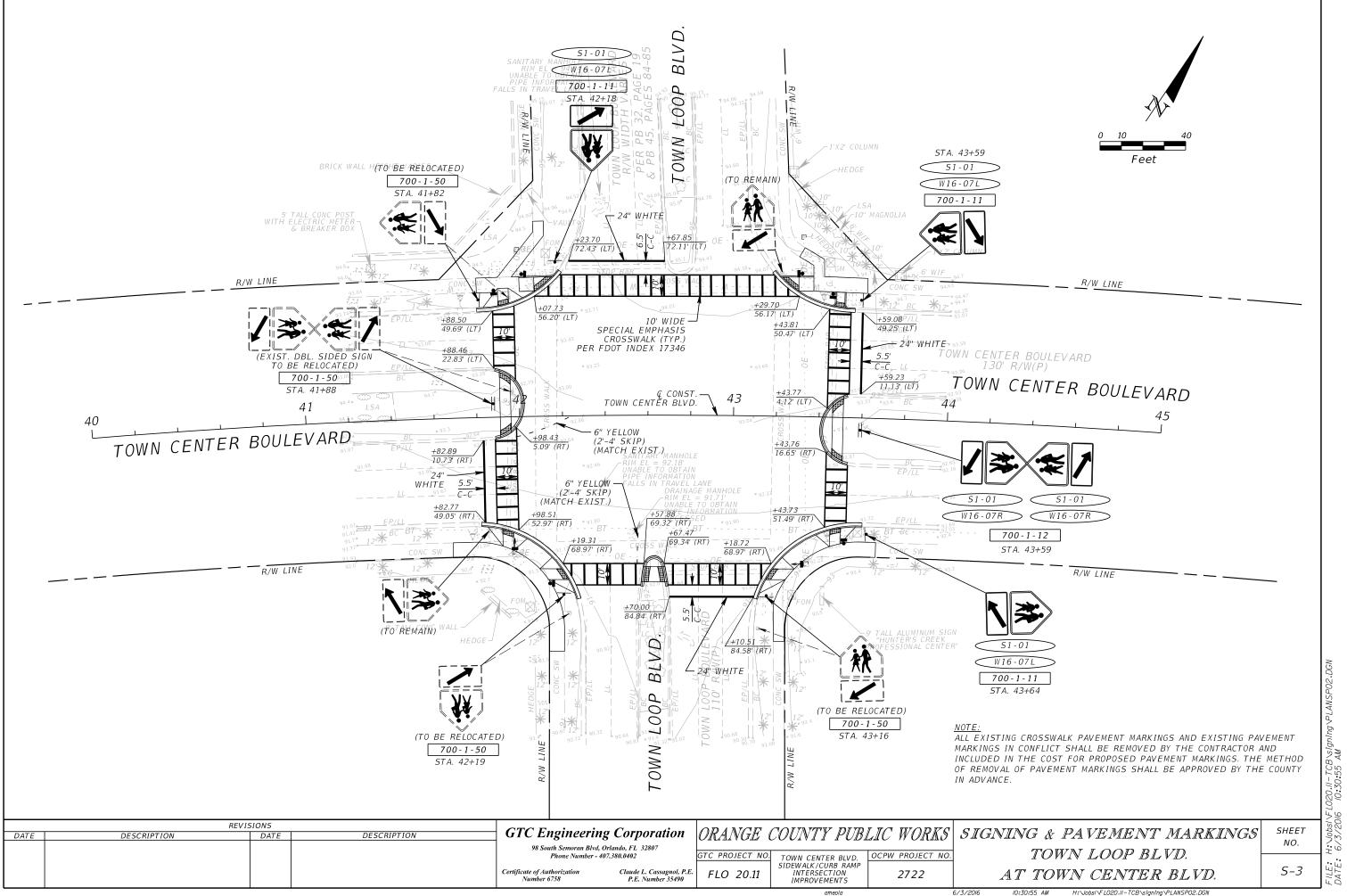
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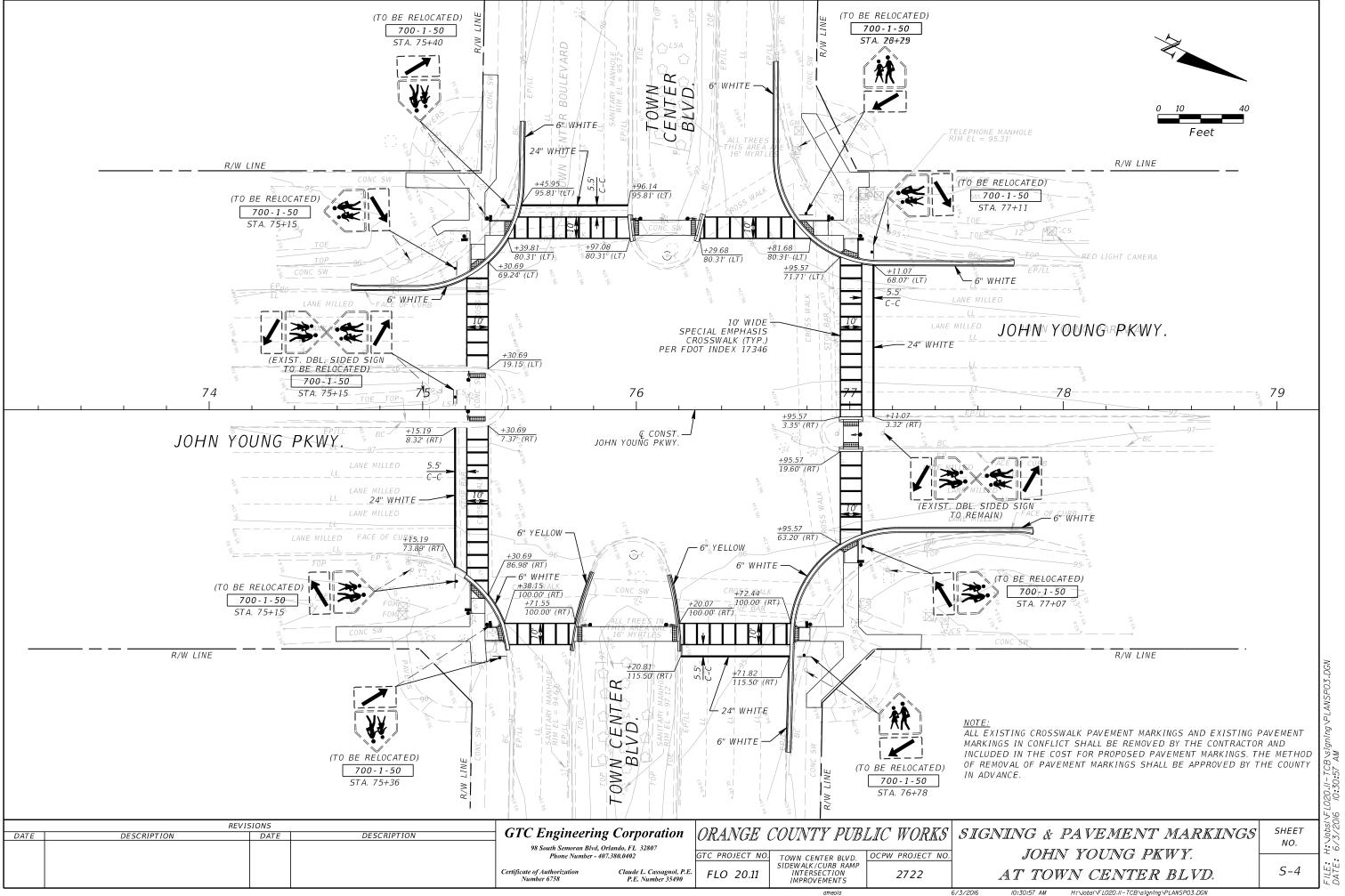
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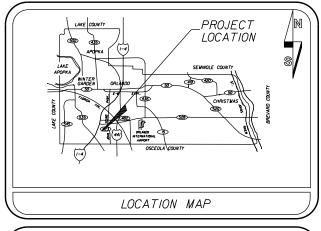




SIGNALIZATION PLANS FOR TOWN CENTER BOULEVARD INTERSECTION IMPROVEMENTS ORANGE COUNTY, FLORIDA

DISTRICT 3

FINAL PLANS JUNE 2016



1		INDEX OF SHEETS
	SHEET	DESCRIPTION
ŀ	T-1	KEY SHEET
ŀ	T-2	TABULATION OF QUANTITIES
ŀ	T-4 to T-6	GENERAL NOTES SIGNALIZATION PLANS
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PLANS PREPARED BY:

PLANS PREPARED BT:
Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Landmark Center Two
Orlando, FL 32801 (407)839-4006
Certificate of Authorization * 3932 Kathryn L. Lee, P.E. PE * 62420

REVISIONS	DATE	BY

	<i></i>	
/	DESIGNED BY: JMD	DATE: 6/3/2016
	CHECKED BY: KLL	DATE:6/3/2016
	DRAWN BY: JMD	DATE:6/3/2016
	APPROVED BY: KLL	DATE: 6/3/2016
·	PROJECT NO: 62535.	.03

SHEET_T-1

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2016, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2015, AS AMENDED BY CONTRACT DOCUMENTS.

TERESA JACOBS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

S. SCOTT BOYD DISTRICT I BRYAN NELSON DISTRICT 2 PETE CLARKE DISTRICT 3 JENNIFER THOMPSON DISTRICT 4 TED EDWARDS DISTRICT 5 VICTORIA P. SIPLIN DISTRICT 6 MARK V. MASSARO, P.E. PUBLIC WORKS DIRECTOR

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATLEY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLAN PREPARATION. DEEDS, CONDITIONS, AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE THE PROJECT DESIGN, THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVE, 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 (I) OF THE FLORIDA STATUTES.

KATHRYN L. LEE, P.E.

TABULATION OF QUANTITIES

PAY ITEM	DESCR I PT I ON	UNIT	T	- <i>Д</i>	T	- 5	SHE.	ET NUM	IBERS						TF	TAL IIS EET		AND TAL
NO.			PLAN			FINAL		FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	119		79		250								448		448	
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	134				168								302		302	
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PΙ	1		1		1								3		3	
635-2-11	PULL & SPLICE BOX, F&I, 13"X24"	EΑ	2				2								4		4	
646 - 1 - 11	ALUMINUM SIGNALS POLE, F&I, PEDESTAL	EΑ	6		5		7								18		18	
646 - 1 - 12	ALUMINUM SIGNALS POLE, F&I, PEDESTRIAN DETECTOR POST	EA					7								7		7	
646 - 1 - 60	ALUMINUM SIGNALS POLE, REMOVE	EA	2		1		6								9		9	
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS	8		5		8								21		21	
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL, PEDESTAL TO REMAIN	AS	2		1		1								4		4	
660 - 4 - 51	VEHICLE DETECTION SYSTEM, VIDEO, MODIFY CABINET EQUIPMENT	EA	1		1		1								3		3	
665 - 1 - 12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA	8		8		15								31		31	
665-1-60	PEDESTRIAN DETECTOR, REMOVE, PEDESTAL TO REMAIN	EA	4		4		2								10		10	
671-2-40	TRAFFIC CONTROLLER, MODIFY	EA	1		1		1								3		3	
																		<u> </u>

	F	Vanasse Hangen Brustlin, Inc.		
DATE	DESCRIPTION	DATE	DESCRIPTION	Transportation, Land Development, Environmental Services
				225 E. Robinson St., Suite 300 Landmark Center Two Orlando, FL 32801 (407)839-4006
				Cert if icate of Authorization * 3932 Kathryn L. Lee, P.E. PE * 62420



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

TABULATION OF QUANTITIES

SHEET NO.

T-2

- 1. THE SIGNALIZATION PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FDOT'S DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, DATED 2016. GOVERNING SPECIFICATIONS ARE THE STATE OF FLORIDA, 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND SUPPLEMENTS THERETO IF NOTED IN 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) 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. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT POLES ARE TO BE 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. THE CONTRACTOR SHALL HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A MAXIMUM OF TWO HOURS RESPONSE TIME.
- 8. THE CONTRACTOR SHALL NOTIFY ORANGE COUNTY TRAFFIC OPERATIONS (407-836-7890) AT LEAST 24 HOURS IN ADVANCE OF INSTALLING UNDERGROUND CONDUIT 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 OR SIDEWALK.
- 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 THE SIDEWALK, SIDE OF THE 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. 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.
- 16. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
- 17. UNDER NO CIRCUMSTANCES SHALL ENERGIZED CABLE BE PLACED IN THE SAME CONDUIT OR PULL BOX AS LOOP LEAD-IN CABLE.
- 18. 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 ENSURE THAT THE ALLOWABLE TENSION UNIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.

- 19. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL WITH ORANGE COUNTY BEFORE ORDERING. WIRING DIAGRAMS SHALL BE IN ACCORDANCE WITH ORANGE COUNTY SPECIFICATIONS.
- 20. 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 SUBMITTAL'S REQUIRED FOR THIS PROJECT.
- 21. THREE SPARE WIRES ARE REQUIRED PER SIGNAL CABLE. SPARES SHALL BE BOUND AND GROUNDED IN CABINET.
- 22. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL LENSES FOR THESE HEADS SHALL BE GLASS. ALL SIGNAL HEADS SHALL BE BLACK ALUMINUM. TUNNEL VISORS SHALL BE USED ON ALL SIGNAL SECTIONS. PAYMENT FOR TUNNEL VISORS SHALL BE INCLUDED IN THE PRICE OF THE SIGNAL HEADS.
- 23. THE USE OF "JONES" PLUGS FOR SIGNAL INSTALLATIONS SHALL BE PROHIBITED.
- 24. ALL SIGNAL INDICATIONS SHALL BE LED. LED SIGNAL PRODUCT INFORMATION SHALL BE SUBMITTED TO ORANGE COUNTY FOR APPROVAL.
- 25. 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.
- 26. PUSH BUTTONS SHALL BE CONSTRUCTED WITH MECHANICAL CONTACTS. MICROSWITCHES SHALL NOT BE USED.
- 27. 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
- 28. IN THE EVENT PERMANENT VEHICLE DETECTION DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.
- 29. PULL BOX COVERS SHALL BE LABELED "TRAFFIC SIGNAL" AND SHALL BE ORANGE COLORED. PULL BOX LIDS SHALL HAVE A STAINLESS STEEL LOCKING BOLT

		Vanasse Hangen Brustlin, Inc.		
DATE	DESCRIPTION	DATE	DESCRIPTION	Transportation, Land Development, Environmental Services
				225 E. Robinson St., Suite 300 Landmark Center Two Orlando, FL 32801 (407)839-4006 Certificate of Authorization * 3932 Kathryn L. Lee, P.E. PE * 62420

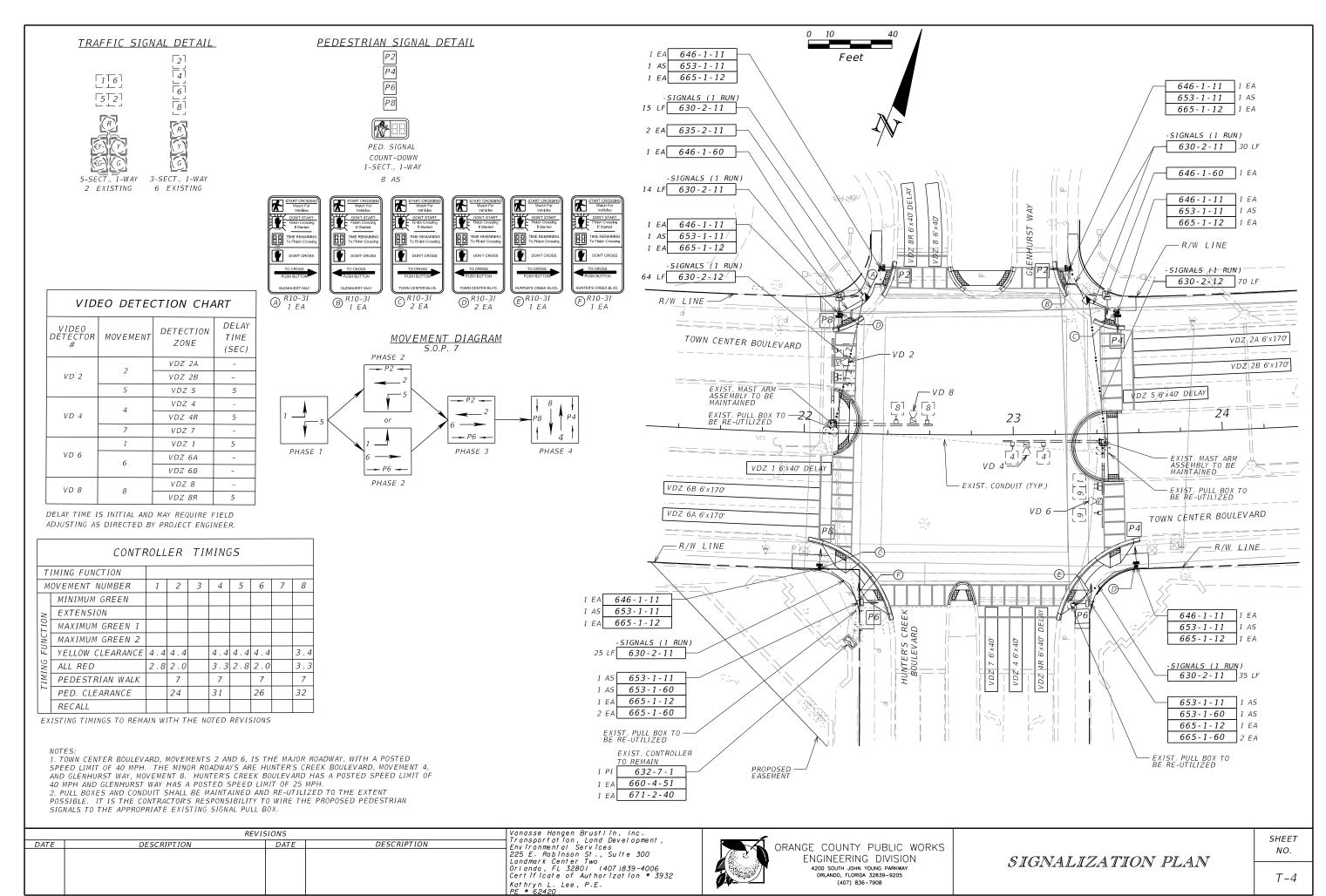


ORANGE COUNTY PUBLIC WORKS
ENGINEERING DIVISION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839–9205
(407) 836–7908

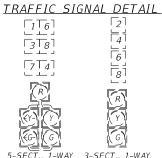
GENERAL NOTES

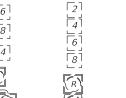
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5-SECT., 1-WAY 3-SECT., 1-WAY 3 EXISTING 5 EXISTING

PEDESTRIAN SIGNAL DETAIL P2 P4

P6 P8 [P8]





COUNT-DOWN

PED. SIGNAL 1-SECT., 1-WAY 1-SECT., 1-WAY

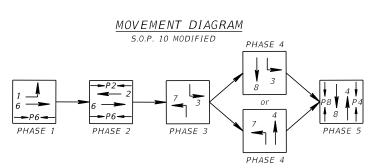


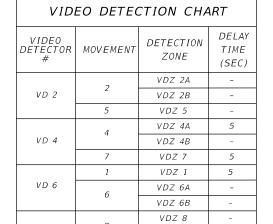












DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

	CONTROLLER TIMINGS								
T.	TIMING FUNCTION								
М	OVEMENT NUMBER	1	2	3	4	5	6	7	8
	MINIMUM GREEN								
>	EXTENSION								
FUNCTION	MAXIMUM GREEN 1								
/NC	MAXIMUM GREEN 2								
-	YELLOW CLEARANCE	4.4	4.4	4.0	4.0		4.4	4.0	4.0
IMING	ALL RED	4.2	2.6	3.8	3.0		2.6	3.7	2.9
W.	PEDESTRIAN WALK		7		7		7		7
-	PED. CLEARANCE		33		30		28		31
	RECALL								

VDZ 8R

VDZ 3

5

EXISTING TIMINGS TO REMAIN WITH THE NOTED REVISIONS

VD 8

1. TOWN CENTER BOULEVARD, MOVEMENTS 2 AND 6, IS THE MAJOR ROADWAY, WITH A POSTED SPEED LIMIT OF 40 MPH. TOWN LOOP BOULEVARD, MOVEMENTS, 4 AND 8, IS THE MINOR ROADWAY, WITH A POSTED SPEED LIMIT OF 35 MPH.

2. PULL BOXES AND CONDUIT SHALL BE MAINTAINED AND RE-UTILIZED TO THE EXTENT POSSIBLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WIRE THE PROPOSED PEDESTRIAN SIGNAL TO THE APPROPRIATE EXISTING SIGNAL PULL BOX.

	REVIS	Vanasse Hangen Brustlin, Inc. Transportation, Land Development,		
DATE	DESCRIPTION	DATE	DESCRIPTION	Environmental Services
				225 E. Robinson St., Suite 300 Landmark Center Two Orlando, FL 32801 (407)839-4006 Certificate of Authorization * 3932 Kathryn L. Lee, P.E. PE * 62420



1 EA 646-1-11

1 AS 653-1-11

1 EA 665-1-12

19 LF 630-2-11 1 EA | 646-1-60

EXIST. SIGNAL PULL -BOX TO BE RE-UTILIZED

11 LF 630-2-11

1 EA 646-1-11 1 AS 653-1-11

1 EA 665-1-12

1 EA 660-4-51

1 EA

VDZ 6B 6'x170'

VDZ 6A 6'x170'

R/W LINE -

1 AS 653-1-60

1 EA 665-1-12 2 EA 665-1-60

EXIST. SIGNAL PULL -BOX TO BE RE-UTILIZED

15 LF 630-2-11

1 EA 646-1-11

1 AS 1 EA

-SIGNALS (1 RUN)

653-1-11

665 - 1 - 12

EXIST. CONCRETE STRAIN POLE TO BE MAINTAINED

-SIGNALS (1 RUN)

EXIST. CONTROLLER TO REMAIN

632-7-1

671-2-40

TOWN CENTER BOULEVARD

VDZ 1 6'x 40' DELAY

-SIGNALS (1 RUN)

ORANGE COUNTY PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839-9205

(407) 836-7908

SIGNALIZATION PLAN

SHEET NO.

T-5

Feet

EXIST. CONCRETE STRAIN POLE TO BE MAINTAINED

EXIST. PED SIGNAL AND PEDESTAL TO BE MAINTAINED

665-1-12 1 EA

665-1-60 | 1 EA

- EXIST. SIGNAL PULL BOX TO BE RE-UTILIZED

-SIGNALS (1 RUN)

630-2-11 18 LF

646-1-11 1 EA 653-1-11 1 AS

665-1-12 1 EA

VDZ 5 6/x40'

TOWN CENTER BOULEVARD

- R/W LINE

646-1-11 1 EA 653-1-11 1 AS

665-1-12 1 EA

-SIGNALS (1 RUN) 630-2-11 16 LF

EXIST. CONCRETE STRAIN POLE TO BE MAINTAINED

665-1-12 1 EA

665-1-60 1 EA

VDZ 2A 6'x170'

VDZ 2B 6'x170'

-VD 2

[8] <u>√ [8</u>]

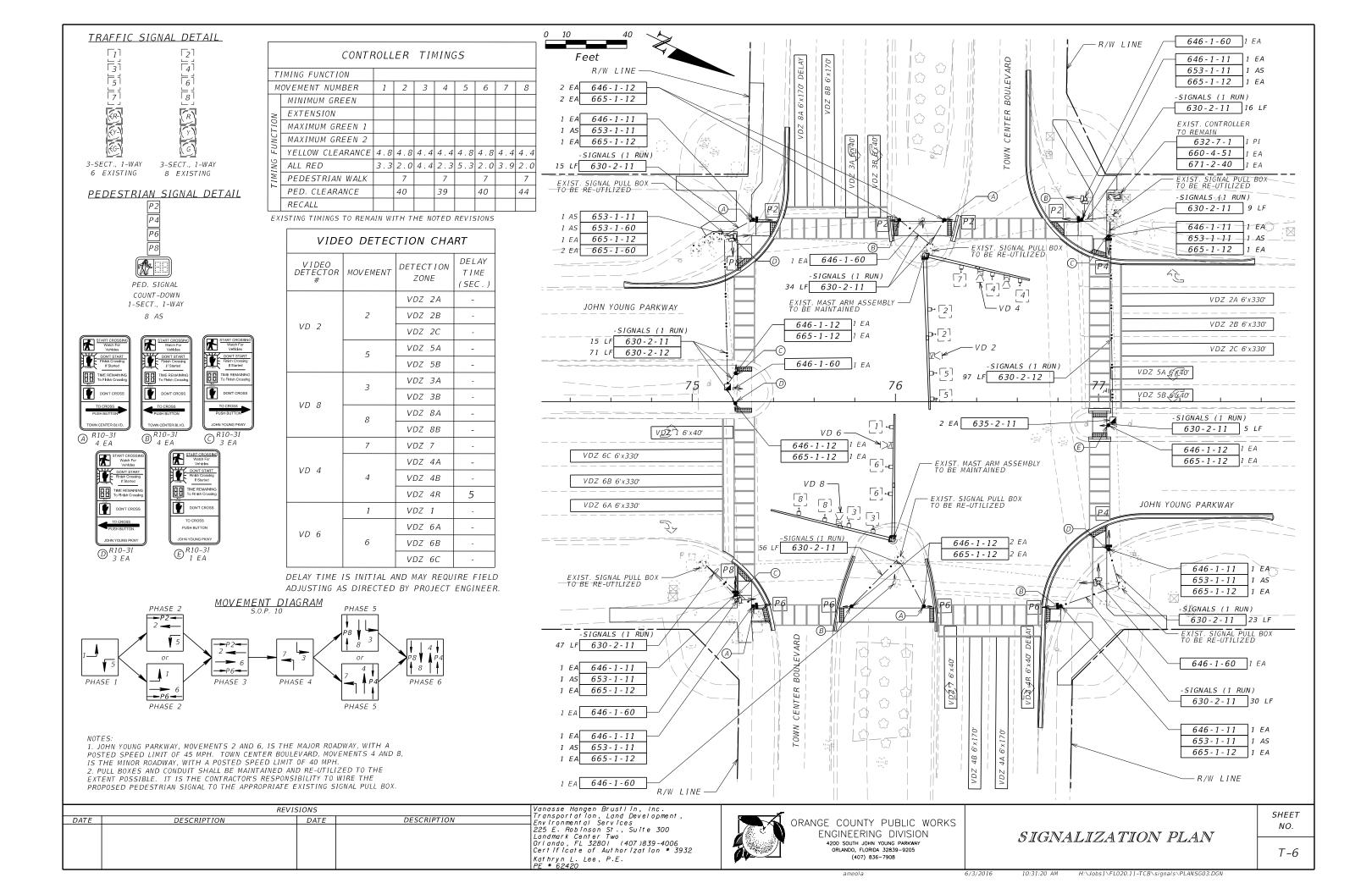
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43

VD 6

[9] +0

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TOPOGRAPHIC SURVEY TOWN CENTER BOULEVARD INTERSECTIONS CROSS WALK IMPROVEMENTS PROJECT

LYING IN SECTIONS 28, 29 & 32, TOWNSHIP 24 SOUTH, RANGE 29 EAST, ORANGE COUNTY, FLORIDA

SURVEYOR'S REPORT

- 1. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH THE EXISTING RIGHT OF WAY LINES OF THREE INTERSECTIONS ALONG TOWN CENTER BOULEVARD WITH HUNTER'S CREEK BOULEVARD, WEST TOWN LOOP BOULEVARD AND SOUTH JOHN YOUNG PARKWAY 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 TOPOGRAPHIC SURVEY LIMITS NOTED ABOVE.
- 2. BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD83/11), ZONE 901, FLORIDA EAST.
- 3. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED FROM THE FOLLOWING ORANGE COUNTY BENCHMARKS:

FOUND 3.5" ORANGE COUNTY ALUMINUM DISK IN WEST SIDE OF 7' CONCRETE SIDEWALK AT SOUTHWEST QUADRANT OF JOHN YOUNG PARKWAY AND TOWN CENTER BOULEVARD. PUBLISHED ELEVATION = 95.460 (NAVD88)

A1199007

FOUND 3.5" ALUMINUM DISK AT THE NORTHEAST CORNER OF TEAL POINT ROAD & JOHN YOUNG PARKWAY IN A CONCRETE DROP INLET, 35'± NORTH OF THE CENTERLINE OF TEAL POINT ROAD & 150'± EAST PUBLISHED ELEVATION = 91.813 FEET (NAVD88)

FOUND 3.5" ORANGE COUNTY ALUMINUM DISK IN CENTERLINE OF 7' CONCRETE SIDEWALK AT NORTHWEST QUADRANT OF TOWN CENTER BOULEVARD AND TOWN LOOP BOULEVARD.

PUBLISHED ELEVATION = 94.245 FEET (NAVD88)

FOUND 3" ORANGE COUNTY CONTROL DISK IN CENTERLINE OF 7'
CONCRETE SIDEWALK; NORTH SIDE OF TOWN CENTER BOULEVARD 566
FEET ±WEST OF THE CENTERLINE OF LORD BARCLAY DRIVE AND SOUTH
OF A CUL-DE-SAC NAMED ROXSHIRE DRIVE. PUBLISHED ELEVATION = 88.150 FEET (NAVD88)

\$1350015 FOUND 3" ORANGE COUNTY ALUMINUM DISK IN NORTH END CONCRETE MEDIAN AT SOUTH SIDE OF TOWN CENTER BOULEVARD AND HUNTER'S CREEK BOULEVARD INTERSECTION. PUBLISHED ELEVATION = 88.830 FEET (NAVD88)

- 4. 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.
- 5. THE LOCATION OF UNDERGROUND UTILITY LINES SHOWN HEREON WERE DETERMINED BY A CALL SUNSHINE LOCATE REQUEST, TICKET NUMBERS 265501893, 265501971 AND 265504631, AND BY EXAMINATION OF SURFACE APPURTENANCES OF SAID UTILITIES
- 6. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN
- 7. 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
- 8. ALL RECORDING REFERENCES SHOWN ON THIS SURVEY REFER TO THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, UNLESS OTHERWISE
- 9. ALL STATION AND OFFSETS ARE TO THE BASELINE OF SURVEYS.

= CABLE TELEVISION PEDESTAL

= COLUMN = DRAINAGE MANHOLE = ELECTRIC BOX 200

= END NOT FOUND OR LOCATED 1.

= FLOOD LIGHT = LIGHT POLE

(1)~0 = NON POTABLE/RECLAIM VALVE = NON POTABLE/RECLAIM VALVE COVER

 \bigcirc = OAK TREE = PALM TREE = PEDESTRIAN SIGNAL

 \boxtimes = POST/UTILITY MARKER ((SW)) = SANITARY MANHOLE = SANITARY VALVE COVER

7.72 = SERVICE CABINET ∞

= SIGNAL MAST ARM -[] = SIGNAL SPAN POLE = SINGLE SUPPORT SIGN

= SPOT ELEVATION = TELEPHONE MANHOLE = TELEPHONE PEDESTAL

 \bigcirc

= TRANSFORMER = TREE UNKNOWN (UNLESS OTHERWISE NOTED) = WATER METER

 $g_{i}(\overline{f})(\overline{f})$ HATER = WATER VALVE ILATEA = WATER VALVE BOX = WATER VALVE COVER = WIRING PULL BOX

----BE--- = BURIED ELECTRIC LINE ----- = BURIED GAS LINE

--- NPW ---- BURIED NON POTABLE/RECLAIM WATER LINE ---- S ---- = BURIED SANITARY SEWER FORCE MAIN

- - - - BT - - - = BURIED TELEPHONE LINE --- BTV --- = BURIED TELEVISION LINE · · · · W · · · · = BURIED WATER LINE

--- OE --- - = OVERHEAD ELECTRIC/POWER LINE

ABBREVIATIONS

= BACK OF CURB = BASELINE = CALCULATED = CENTERLINE = CHORD BEARING

CONC = CONCRETE MONUMENT CPP

= EASTING EΡ

GM = GAS MARKER ID = IDENTIFICATION

LSA LL

LT = LEFT= LENGTH

LC

= NORTH AMERICAN VERTICAL DATUM OF 1988

= NORTHING = NOT APPLICABLE N/A $= PI \Delta T$ (P)

PB= PLAT BOOK = POINT OF CURVATURE PI= POINT OF INTERSECTION = POINT OF TANGENCY PΤ

PVC = POLYVINYL CHLORIDE = RADIUS = REINFORCED CONCRETE PIPE RT = RIGHT

R/W= RIGHT OF WAY = SIDEWALK = STATION = TANGENT LENGTH

TOF = TOE OF SLOPE TOP= TOP OF BANK = WROUGHT IRON FENCE

= CHORD DISTANCE = CONCRETE = CORRUGATED PLASTIC PIPE = DELTA (CENTRAL ANGLE) = EDGE OF PAVEMENT = ELEVATION = FIBER OPTIC CABLE MARKER = FOUND= INVERT = IRON ROD & CAP = LANDSCAPE AREA = LANE LINE = LIGUSTRUM CLUSTER = CRAPE MYRTIE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT A SURVEY OF THE PROPERTY SHOWN HEREON WAS MADE UNDER MY SUPERVISION AND THAT THE SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472.027 OF THE 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.

VICINITY MAP

SITE #1

SITE #

_DAY OF__ , 2015

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

G07-21

SHEET INDEX

SHEET	CONTENTS
SV-1	COVER
SV-2	HUNTER'S CREEK BOULEVARD INTERSECTION DETAILS
SV-3	WEST TOWN LOOP BOULEVARD INTERSECTION DETAILS
SV-4	SOUTH JOHN YOUNG PARKWAY INTERSECTION DETAILS
SV-5	REFERENCE DETAILS

PREPARED FOR: GTC ENGINEERING CORPORATION ORANGE COUNTY ENGINEERING PUBLIC WORKS ROADS AND DRAINAGE DIVISION

GEODATA CONSULTANTS, INC.
SURVEYING & MAPPING
1349 S INTERNATIONAL PARKWAY SUITE 2401
LAKE MÄRY, FLORĪDA 32746
VOICE: (407) 732-6965

REVISION

	DRAWN BY: PMM	CHECKED BY: RJH & JMS					
	LAST DATE OF FIELD SURVEY: 10-16-15						
	FIELD BOOK 15-18, PAGES 06-58						
	ORANGE COUNTY, FLORIDA						
	DATE:	SCALE:					
	OCTOBER 20, 2015	N/A					
_	PROJECT No.						

SHEET SV-1

