

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING & PAVEMENT MARKING PLANS
- LIGHTING PLANS
- WATER MAIN PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

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GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2014,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2013,  
AS AMENDED BY CONTRACT DOCUMENTS.

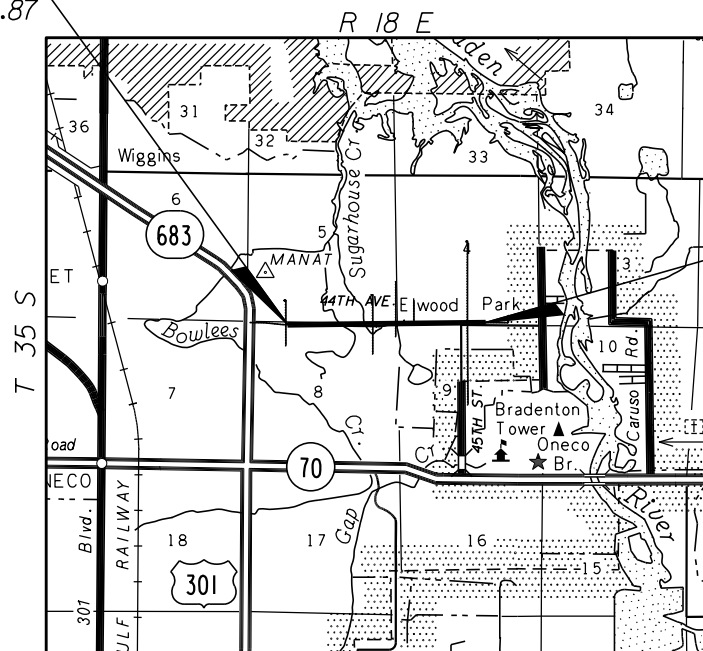
REVISIONS  
REVISION No. 1: 11/18/14 - SHEET 21 - UPDATED GENERAL NOTES BASED ON CONTRACT ADDENDUM

MANATEE COUNTY  
PUBLIC WORKS DEPARTMENT

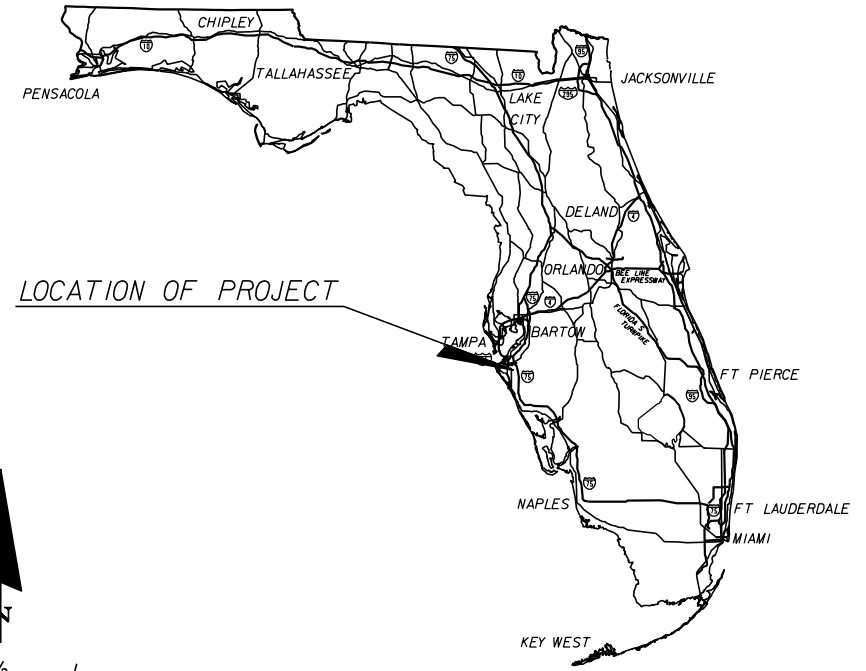
CONTRACT PLANS

MANATEE COUNTY  
(6071160)  
44TH AVENUE EAST  
FROM 30TH STREET EAST TO 45TH STREET EAST

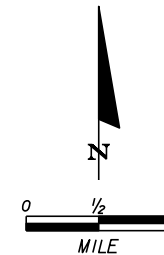
BEGIN PROJECT  
STA. 100+63.87



END PROJECT  
STA. 173+05.70



LOCATION OF PROJECT



ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:  
DONALD R. HOLCOMB, P.E.  
HDR ENGINEERING, INC.  
2601 CATTLEMEN ROAD., STE. 400  
SARASOTA, FLORIDA 34232-6233  
PHONE NO. (941) 342-2700

PLANS PREPARED BY:  
HDR ENGINEERING, INC.  
2601 CATTLEMEN ROAD., STE. 400  
SARASOTA, FLORIDA 34232-6233  
PHONE NO. (941) 342-2700  
FAX (941) 342-6589  
CONTRACT NO. 12348  
VENDOR NO. VF-470680568  
CERTIFICATE OF AUTHORIZATION No. 4213

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

PROJECT LENGTH IS BASED ON  $\frac{1}{4}$  OF CONST.

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	7,241.83	1.371
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	7,241.83	1.371
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	7,241.83	1.371

MANATEE COUNTY PROJECT MANAGER: KENT D. BONTRAGER, P.E.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS  
ENGINEER OF RECORD: DONALD R. HOLCOMB, P.E.

P.E. NO.: 51970

FISCAL YEAR	SHEET NO.
14	1

**GENERAL NOTES**

1. ALL STATIONS AND OFFSETS REFER TO THE  $\text{C}$  OF CONSTRUCTION UNLESS OTHERWISE NOTED.
2. THE ROAD CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE APPROPRIATE ROADWAY AND TRAFFIC DESIGN STANDARDS AS LISTED ON THE KEY SHEET.
3. DESIGN SPEED IS 45 M.P.H.
4. GRADES SHOWN ARE FINISHED GRADES.
5. THE CONTRACTOR SHALL FIELD VERIFY ANY AND ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, AND SHALL NOTIFY THE COUNTY PROMPTLY OF ANY DISCREPANCIES.
6. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
7. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR THE COORDINATION OF UTILITY RELOCATION.
8. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE-CALL OF FLORIDA INC, AT 1-800-432-4770, TWO (2) FULL BUSINESS DAYS PRIOR TO CONSTRUCTION.
10. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE COUNTY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING CONSTRUCTION BY UTILIZING WATER TRUCKS, SILT DRAFT FENCING, SYNTHETIC BALES AND BY COVERING OPEN BODIED TRUCKS TRANSPORTING DEBRIS. THIS WORK SHALL BE PAID UNDER EROSION CONTROL PAY ITEMS.
12. ATTENTION IS CALLED TO THE FACT THAT PORTIONS OF THE DRAINAGE STRUCTURES MAY EXTEND INTO THE STABILIZED SUBBASE AND THAT CAUTION SHOULD BE EXERCISED DURING STABILIZATION OPERATIONS TO AVOID DAMAGE TO THESE STRUCTURES.
13. ALL CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND FLORIDA ACCESSIBILITY CODE AT CURBS, GUTTERS, SIDEWALKS, INTERSECTIONS, ETC. HANDICAP RAMPS ARE TO BE CONSTRUCTED WITH DETECTABLE WARNING SURFACES PER FDOT INDEX 304. SAWCUTTING GROOVES IN RAMPS IS NON-CONFORMING AND POSE A LIABILITY.
14. THE COUNTY RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIAL DELIVERED TO THE PROJECT AND TO REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS.
15. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY, PAYMENT SHALL NOT BE MADE FOR THIS WORK.
16. ALL EXISTING DRAINAGE STRUCTURES, UNDERDRAIN SYSTEMS, DITCHES, AND PONDS, ARE TO REMAIN UNLESS OTHERWISE NOTED.
17. (OMITTED)
18. THE CONTRACTOR SHALL FIELD VERIFY EXISTING STORMDRAIN AND UNDERDRAIN EXACT LOCATIONS AS WELL AS FINISHED PAVEMENT ELEVATIONS PRIOR TO PRECASTING THE DRAINAGE STRUCTURES.



**DRAINAGE STRUCTURE NOTES**

1. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
2. ALL PROPOSED PIPE FOR STORMDRAINS, CROSSDRAINS, AND SIDE DRAINS SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III.
3. THIS PROJECT INCLUDES PROPOSED UNDERDRAIN FOR ROAD BASE DRAINAGE. THE PROPOSED UNDERDRAIN SYSTEM OUTLET PIPES ARE TO CONNECT TO THE PROPOSED DRAINAGE STRUCTURE BOTTOMS. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT THE PROPOSED UNDERDRAIN SYSTEM OUTLET PIPE CONNECTIONS ARE NOT DETAILED IN THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING UNDERDRAIN SYSTEM LIMITS FROM THE SUMMARY OF UNDERDRAIN IN THE PLANS, AND THE UNDERDRAIN SYSTEM ALIGNMENT THROUGH UTILITY COORDINATION AND IN ACCORDANCE WITH INDEXES 286 AND 500. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE UNDERDRAIN PIPE CONNECTION OPENINGS PRIOR TO CASTING AND INSTALLING THE DRAINAGE STRUCTURES. THE COST FOR THE CONTRACTORS DETERMINATION AND INSTALLATION OF UNDERDRAIN PIPE CONNECTION OPENINGS IN THE PROPOSED DRAINAGE STRUCTURES IS INCLUDED IN THE COST FOR EACH RESPECTIVE DRAINAGE STRUCTURE RECEIVING THE UNDERDRAIN CONNECTIONS. SEE SUMMARY OF UNDERDRAIN IN THE PLANS FOR PROPOSED UNDERDRAIN LOCATION INFORMATION.
4. THE CONTRACTOR IS TO FIELD VERIFY AND / OR DETERMINE THE EXACT LOCATIONS, DIMENSIONS, AND ELEVATION OF ALL UTILITIES THAT ARE SHOWN TO BE IN CLOSE PROXIMITY TO PROPOSED UNDERDRAIN SYSTEMS, DRAINAGE STRUCTURES AND UTILITIES TO BE ACCOMMODATED BY A PROPOSED CONFLICT STRUCTURE. THIS INFORMATION SHALL BE USED BY THE CONTRACTOR FOR HIS USE IN PROPERLY ALIGNING THE PROPOSED UNDERDRAIN SYSTEMS FOR UTILITY CONFLICT AVOIDANCE, AND FOR HIS USE IN PROPERLY CASTING AND PLACING THE DRAINAGE STRUCTURES.
5. THE CONTRACTOR IS TO FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL DRAINAGE STRUCTURES AND PIPES PRIOR TO ORDERING, CASTING, OR PLACING PROPOSED DRAINAGE STRUCTURES AND PIPES.
6. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT INLET ELEVATIONS FOR CURB INLETS TYPE 5 AND 6 (FDOT INDEX NO. 211) REFERENCE THE EDGE OF PAVEMENT.
7. THE CONTRACTOR IS TO PROVIDE STRUCTURAL DESIGN AND SHOP DRAWINGS FOR INLET TYPE SPECIAL DRAINAGE STRUCTURES.
8. ALL STORMDRAIN MANHOLES SHALL USE MANATEE COUNTY ACCESS COVER, PER MANATEE COUNTY STANDARD NO. 203.1.
9. ANY STORMDRAIN INLETS REQUIRING AN ACCESS COVER SHALL BE IN ACCORDANCE WITH MANATEE COUNTY STANDARD NO. 203.2.
10. PROPOSED UNDERDRAIN FOR ROAD SUBGRADE DRAINAGE, AT LOCATIONS REQUIRING REMOVAL OF PLASTIC MATERIAL, SHALL USE UNDERDRAIN TYPE II PER FDOT INDEX NO. 281, INSTALLED PER FDOT INDEX NO. 500 (SEE PLANS FOR LOCATIONS).

**UTILITY CONTACTS**

BRIGHTHOUSE NETWORKS	ALEX FLEMING	(941) 748-3816
FLORIDA POWER AND LIGHT DISTRIBUTION	GREG COKER	(941) 723-4430
FLORIDA POWER AND LIGHT LAND MANAGEMENT	MARK BYERS	(941) 316-6288
MANATEE COUNTY UTILITIES	KATHY MCMAHON	(941) 792-8811
VERIZON FLORIDA	DENISE HUTTON	(941) 906-6722

19. ALL EMBANKMENT MATERIALS SHALL BE CLASSIFICATION A-3, REFER TO FDOT INDEX NO. 505. ALL COSTS SHALL BE INCLUDED IN PAY ITEM 120-6.
20. BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983, 1999 ADJUSTMENT.
21. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
22. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
23. ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE SODDED AS DIRECTED BY THE ENGINEER. SEEDING AND MULCHING SHALL BE APPLIED ONLY WHERE SPECIFICALLY CALLED FOR IN THE PLANS AND SPECIFICATIONS, OR WHERE SPECIFICALLY DIRECTED BY THE COUNTY.
24. THE CONTRACTOR SHALL BACKFILL AREAS TO BE SODDED WITH CLEAN FILL TO MAINTAIN PROPER GRADE OF THE PLANTING AREA, AND THE SOD SHALL BE PROPERLY CUT-IN AND TAMPED. THE COST OF WHICH SHALL BE INCLUDED IN THE PAY ITEM FOR SOD.
25. ALL EXISTING AND PROPOSED UTILITY AND STORM DRAIN SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN ANY SIDEWALK OR PAVED AREA SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE FLUSH WITH THE SIDEWALK OR PAVEMENT SURFACE. ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN UNPAVED AREAS SUBJECT TO VEHICULAR, BICYCLE, OR PEDESTRIAN TRAFFIC SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE NO MORE THAN ONE INCH ABOVE THE FINISHED GRADE. WHERE SODDING IS APPLIED, "FINISHED GRADE" SHALL BE NOMINAL HEIGHT OF GRASS AFTER THE SOD IS FIRMLY PLACED.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE STAKE-OUT OF THE PROJECT, I.E., LINE, GRADE, SLOPE, UTILITY RELOCATIONS OR ANY OTHER STAKE-OUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
27. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.
28. DRIVEWAY LOCATION AND WIDTH MAY BE FIELD ADJUSTED DURING CONSTRUCTION BY THE CONTRACTOR IN COORDINATION WITH REQUESTS FROM PROPERTY OWNERS.
29. RIPRAP (BANK AND SHORE) IS INSTALLED AS CALLED OUT IN THE PLAN SHEETS AND CROSS SECTIONS. THE THICKNESS OF THIS MATERIAL IS 2.5' AND IT IS PAID UNDER PAY ITEM 530-3-3. RIPRAP (DITCH LINING) IS ALSO CALLED OUT IN THE PLAN SHEETS WHERE APPLICABLE AND IS PAID UNDER PAY ITEM 530-3-4. ALL RIPRAP PAY ITEMS SHALL INCLUDE THE FILTER FABRIC REQUIRED BY THE SPECIFICATIONS.
30. PRIOR TO COMMENCING WITH CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL SECURE AN APPROVED SWFWMD WATER USE PERMIT FOR TEMPORARY DEWATERING INCLUDING THE PROVISION OF DETAILED DEWATERING PLANS SPECIFIC TO HIS CONSTRUCTION MEANS AND METHODS. GROUNDWATER SAMPLING RESULTS INDICATE THAT ARSENIC CONCENTRATIONS AND TOTAL LEAD ARE PRESENT ABOVE GROUNDWATER CLEANUP TARGET LEVELS. EFFLUENT TREATMENT PRIOR TO DISCHARGE USING FILTRATION OR SETTLING FOLLOWED BY GRANULAR ACTIVATED CARBON AND/OR AIR STRIPING UNITS SHALL BE IMPLEMENTED. EPA TEST METHOD 6010 SHALL BE FOLLOWED FOR ALL EFFLUENT TREATMENT OF TOTAL ARSENIC AND TOTAL LEAD.
31. SOIL EXCAVATION AND REUSE FROM STATION 115+00 TO 120+00 HAS BEEN IDENTIFIED TO CONTAIN TOTAL ARSENIC CONCENTRATIONS THAT EXCEED THE FDEP SOIL CLEANUP TARGET LEVELS (SCTL) FOR RESIDENTIAL DIRECT EXPOSURE. THE ARSENIC CONCENTRATION IN THE SOILS IS BELOW THE SCTL FOR COMMERCIAL/INDUSTRIAL DIRECT EXPOSURE LEVELS. THESE SOILS CAN BE USED WITHIN THE LIMITS OF THE ROADWAY PROJECT AND SHALL NOT BE USED OFFSITE.

 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233 FBPR Certificate of Authorization No. 4213				DATE 05/27/14	 <b>MANATEE COUNTY</b> PUBLIC WORKS	DESIGN ENGINEER DONALD R. HOLCOMB	<b>GENERAL NOTES</b>	SHEET NO. 21
SCALE AS NOTED DESIGNED BY JLS DRAWN BY JHC CHECKED BY DRH				PROJECT NO. 6071160		FL. LICENSE NO. 51970		
No.	REVISIONS	DATE	BY					