WATERMAIN CONSTRUCTION PLANS

FOR

ORANGE GROVE BOULEVARD HANCOCK BRIDGE PARKWAY TO PONDELLA ROAD

PART OF SECTION 9, AND 16, TOWNSHIP 44 SOUTH, RANGE 24 EAST NORTH FORT MYERS, LEE COUNTY, FLORIDA



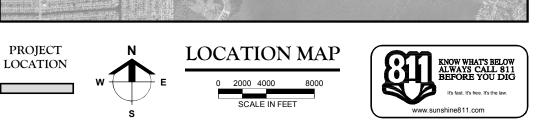
SHEET	DESCRIPTION		DRAWING NAME
C1.0	COVER SHEET AND LOCATION MAP	-	23513A01.DWG
C2.0	STANDARD NOTES	-	23513A02.DWG
C3.0	AERIAL PHOTOGRAPH AND EXISTING CONDITIONS	-	23513A06.DWG
C4.0	MASTER UTILITY PLAN, KEY SHEET, AND NOTES	A,C	23513A12.DWG
C5.0	TYPICAL SECTIONS		23513A18.DWG
C6.0-C6.9	PLAN AND PROFILES - ORANGE GROVE BOULEVARD	A,B,C	23513A30.DWG
C7.0-C7.9	CROSS SECTIONS - ORANGE GROVE BOULEVARD	-	23513A35.DWG
C8.0-C8.1	UTLITY CONNECTION DETAILS	A,C,	23513A40.DWG
C9.0	TYPICAL CONSTRUCTION DETAILS		23513A44.DWG
C10.0-C10.2	GROUTING AND REMOVAL PLAN - ORANGE GROVE BOULEVARD	А	23513A45.DWG
C11.0	EROSION CONTROL DETAILS		23513A50.DWG
C12.0-12.1	STORMWATER POLLUTION PREVENTION PLAN	A,C	23513A52.DWG
C13.0-C13.2	LEE COUNTY UTLITY DETAILS	-	23513A70.DWG

THIS IS TO CERTIFY THAT THESE PLANS AN
COMPLIANCE WITH THE LEE COUNTY LAND
DEVIATIONS WHICH HAVE BEEN APPROVED

WESLEY S. KAYNE, P.E. ENGINEER OF RECORD

DEVELOPMENT ORDER APPROVED: PUBLIC WORKS ADMINISTRATION

DOUG MEURER DIRECTOR OF PUBLIC WORKS



LEE COUNTY COMMISSIONERS DISTRICT 1. JOHN E. MANNING DISTRICT 2. CECIL L. PENDERGRASS

		NOTEO
PERMIT R	EQUIREMENTS	
PAMEL	A KEYES, P.E.	
DIRECTO	R OF UTILITIES	
DOL	JG MEURER	
	R DESJARLAIS	
COUNT	Y MANAGER	
DISTRICT 5.	FRANK MANN	
DISTRICT 4.	BRIAN HAMMAN	
DISTRICT 3.	LARRY KIKER	

AGENCY	STATUS	NOTES
LEE COUNTY DEVELOPMENT ORDER	PENDING	-
FLORIDA DEPARTMENT OF HEALTH	PENDING	-
F.D.O.T. CONNECTION PERMIT	N/A	-
F.D.O.T. DRAINAGE CONNECTION PERMIT	N/A	-
F.D.O.T. UTILITY PERMIT	N/A	-
ARMY CORPS OF ENGINEERS	N/A	-
F.D.E.P. NOTICE OF INTENT	PENDING	-

NOTE: CONTRACTOR MUST OBTAIN AND KEEP ON FILE A COPY OF ALL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY

DESIGN TEAM

PROJECT ENGINEER	PROJECT MANAGEMEN
WESLEY S. KAYNE, P.E.	CHRIS VAN BUSKIRK
DESIGN ENGINEER	PROJECT SURVEYOR
WESLEY S. KAYNE, P.E.	SCOTT A. WHEELER, PSM
LEAD DESIGN TECHNICIAN	SITE PLANNING
JAN BILDZUKEWICZ	N/A
DESIGN STAFF	LAND PLANNING
JAN BILDZUKEWICZ	N/A
QUALITY CONTROL	RECORD DRAWINGS
CHRIS VAN BUSKIRK	PENDING

THESE PLANS MAY HAVE BEEN MODIFIED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ALL DIMENSIONS ARE IN FEET.

INDEX OF DRAWINGS

D THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING BY THE DIRECTOR OF PUBLIC WORKS

FL, P.E. LICENSE NO. 80507

DATE

DATE

PLAN STATUS

100% PLAN SUBMITTAL 2018-02-23

22711 PC FORT	And Associates, Inc. GINEERING - LAND SURVEYING LANDING - LAND SURVEYING LANDING - LANDSCAPE DESIGN W.DARTACO.NEC WCREGOR BLVD., SUITE 100 IST OFFICE DRAWA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169 CERTIFICATES OF AUTHORIZATION IRING 7995 - SURVEYING LB-6940 PREPARED FOR		
	UTILITIES LEE COUNTY		
	1500 MONROE STREET RT MYERS, FLORIDA 33901 PHONE (239) 533-8181 FAX (239) 485-8845 WLEEGOV.COM/UTILITIES		
	PROJECT DESCRIPTION		
B	ANGE GROVE OULEVARD ATERMAIN		
HA	NCOCK BRIDGE PARKWAY TO PONDELLA ROAD		
TOW	RT OF SECTION 9, AND 16, NSHIP 44 SOUTH, RANGE 24 IYERS, LEE COUNTY, FLORIDA		
	ENGINEER OF RECORD		
FLORIDA	LEY S. KAYNE, P.E., FOR THE FIRM P.E. NO. 80507 - WESK@BARRACO.NET		
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GENERAL NOTES:

NOTE: SEE ADDITIONAL NOTES ON SUBSEQUENT PLAN SHEETS WHICH ARE SPECIFIC TO THIS PROJECT. IN THE EVENT OF A CONFLICT, UTILIZE NOTES ON THE PLAN SHEETS.

- THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE LATEST EDITIONS OF THE E D O T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION F.D.O.T. DESIGN STANDARDS AND APPLICABLE DESIGN STANDARDS MODIFICATIONS FOUND AT http://www.dot.state.fl.us/rddesign AND ALL LOCAL CODES.
- ANY DEVIATIONS FROM THE PLANS AND / OR SPECIFICATIONS MUST BE APPROVED IN ADVANCE BY 2. THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCY.
- ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSIONS OF THE AMERICANS WITH 3. DISABILITIES ACT (A.D.A.), THE FLORIDA FIRE CODE AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (F.A.C.B.C.).
- SIDEWALKS ARE DESIGNED AND INTENDED FOR PEDESTRIAN TRAFFIC ONLY ALL SIDEWALKS AND CURB CUTS SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX 304 AND SHALL INCLUDE DETECTABLE WARNING SURFACES. VALLEY GUTTER ADJACENT TO SIDEWALK CROSSING CUTS SHALL DEVIATE FROM STANDARD DETAIL BY NOT EXCEEDING 12:1 SLOPES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER'S REPRESENTATIVE AND APPROPRIATE AGENCY A MINIMUM OF 72 HOURS PRIOR TO ALL INSPECTIONS REQUIRED.
- THE CONTRACTOR SHALL NOTICY THE OWNER AND CONTACT ALL LITELITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES A MINIMUM OF 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL DETERMINE IF UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS EXIST. THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION AND OTHER IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT SIZES, ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION OR ORDERING MATERIALS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. COST ASSOCIATED WITH UTILITY LOCATING IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND IF IN DANGER OF BEING DESTROYED MUST BE PROPERLY REFERENCED AND REPLACED AT THE COMPLETION OF CONSTRUCTION BY THE CONTRACTOR
- EXISTING IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE, AND SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ANY CLEARING, VEGETATION REMOVAL OR RIGHT-OF-WAY PERMITS REQUIRED FOR THIS PROJECT. ALL DEBRIS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING 10. STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. CONTRACTOR SHALL ASSURE THAT ALL TRAFFIC CONTROL DEVICES MEET ACCEPTABLE STANDARDS AS OUTLINED IN THE LATEST EDITION OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA'S) "QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES", AND SHALL IMMEDIATELY REPAIR, REPLACE OR CLEAN DAMAGED, DEFACED OR DIRTY DEVICES. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. ANY IMPACTS TO TRAFFIC FLOW SHALL BE COORDINATED WITH AND APPROVED BY THE APPROPRIATE LOCAL AGENCY.
- 11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE
- THE LOCATIONS OF PROPOSED DRAINAGE STRUCTURES AND UTILITY LINES MAY BE FIELD ADJUSTED 12. TO PRESERVE EXISTING VEGETATION AS APPROVED IN ADVANCE BY THE ENGINEER. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITHIN THE BRANCH SPREAD OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY OWNER.
- INSTALLATION OF SUBSURFACE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WATER, SEWER 13. AND IRRIGATION LINES, PUBLIC UTILITIES AND STORM DRAINAGE IS REQUIRED PRIOR TO COMPACTION OF THE ROADWAY SUBGRADE
- SUBGRADE AND LIMEROCK BASE COURSES (ROADS, DRIVEWAYS, AND SIDEWALK) TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO T-180 TESTING. CONTRACTOR SHALL PROVIDE THE ENGINEER SATISFACTORY DENSITY TESTS FOR SUBGRADE AND LIMEROCK PRIOR TO PAYMENT OR FINAL ACCEPTANCE. EXCESS ROAD BASE AND COMPACTED SOIL SHALL BE REMOVED FROM ALL LANDSCAPE AREAS PRIOR TO FINAL GRADING. UTILITY TRENCHES SHALL BE COMPACTED TO 95% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO-99. ALL GEOTECHNICAL TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO SEPARATE PAYMENT SHALL BE MADE FOR GEOTECHNICAL TESTING.
- 15 SWALE ELEVATIONS SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY. ALL UNPAVED AREAS SHALL BE GRADED TO DRAIN TO THE DRAINAGE SYSTEM TO PREVENT STANDING WATER. YARD DRAINS MAY BE ADDED IN GREEN AREAS AS NECESSARY AT THE DIRECTION OF THE ENGINEER. AND SHALL HAVE PEDESTRIAN-SAFE GRATES MEETING THE REQUIREMENTS OF H-20 LOADING.
- 16. CASING AND/OR CONDUIT SHALL HAVE A MINIMUM OF 30" COVER. EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END, AND ENDS SHALL BE SEALED AND DENOTED WITH MARKING TAPE
- THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE 17. RIMS. GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE
- CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING SOD ON AREAS THAT REQUIRE CRITICAL MINIMUM OR MAXIMUM ELEVATIONS IN ORDER FOR ENGINEER TO VERIFY SUCH

ELEVATIONS THE OBLIGATION TO ACHIEVE MINIMUM ELEVATIONS REMAINS WITH THE CONTRACTOR

- 19. SOD A 12" STRIP ADJACENT TO ALL PAVEMENT PER F.D.O.T. REQUIREMENTS. SOD ALL UNPAVED DISTURBED AREAS WITHIN F.D.O.T. RIGHT OF WAY
- THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS 20. PRIOR TO PLACEMENT OF FILL, AND SUCH MATERIAL SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER. CONTRACTOR SHALL BE REQUIRED TO PROVIDE SUITABLE BACK FILL MATERIAL AS NEEDED FOR UTILITY BACK FILL ETC. AS IN ACCORDANCE WITH THE SPECIFICATIONS
- 21. ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE / NSF INTERNATIONAL STANDARD 61. ALL COMPONENTS, INSTALLATION AND TESTING OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH ALL A.W.W.A. APPLICABLE STANDARDS.
- NO VEGETATION OR OTHER OBSTRUCTIONS SHALL BE PLACED SO AS TO BLOCK ACCESS OR LINE OF SIGHT TO FIRE HYDRANTS, F.D.C, P.I.V, ETC. IN ACCORDANCE WITH LOCAL FIRE JURISDICTION AND / OR AS SHOWN IN DETAILS.
- 23. SEPARATE PERMITS MAY BE REQUIRED FOR ANY DEDICATED FIRE LINE. UNDERGROUND FIRE LINES MUST MEET REQUIREMENT OF NEPA 24
- THE CONTRACTOR SHALL RESTORE ALL PAVING DISTURBED DURING CONSTRUCTION TO MATCH 24. ORIGINAL CONDITION. NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS UNLESS SPECIFICALLY INCLUDED IN THE BID TABULATION OR OUTLINED IN THE SPECIFICATIONS
- 25. EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO PERFORMING ANY EXCAVATION IN ANY AREA AND SHALL BE MAINTAINED DURING WORK AND REMOVED WHEN WORK IS COMPLETED. SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION. IF APPLICABLE
- 26. LIMITS OF CONSTRUCTION SHALL BE CONFINED TO THE EXISTING RIGHTS-OF-WAYS AND EASEMENTS SHOWN ON THE PLANS
- CONTRACTOR SHALL RECONSTRUCT ALL DRAINAGE DITCHES AND SWALES DISTURBED BY 27. CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL GRADE AND LOCATION
- 28 THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN AMPLE MEANS AND FOULIPMENT WITH WHICH TO REMOVE AND PROPERLY DISPOSE OF ANY WATER ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK AND KEEP ALL EXCAVATIONS DRY UNTIL SUCH TIME AS PIPE LAYING AND GRADING IS COMPLETED AND STRUCTURES TO BE BUILT THEREIN ARE COMPLETED. NO WATER SHALL BE ALLOWED TO RISE AROUND THE PIPE IN OPEN TRENCHES NOR SHALL IT BE ALLOWED TO RISE OVER MASONRY UNTIL THE CONCRETE OR MORTAR HAS SET. ALL WATER PUMPED OR DRAINED FROM THE SITE SHALL BE DISPOSED OF IN SUCH A MANNER AS TO PREVENT SILTATION AND EROSION TO ADJACENT PROPERTY OR OTHER CONSTRUCTION. IF REQUIRED THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ANY LOCAL, STATE OR FEDERAL PERMITS REQUIRED FOR DEWATERING, NO OFFSITE DISCHARGE IS PERMITTED UNLESS SPECIFICALLY ALLOWED IN DEWATERING PERMIT
- 29. CONTRACTOR SHALL PROTECT OR REMOVE AND REINSTALL ALL SIGNS AND MAIL BOXES WITHIN THE RIGHT-OF-WAY OR EASEMENT LIMITS.
- CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM ADVANCE NOTICE OF ALL UTILITY SHUT DOWNS 30. AND TIE-INS TO THE ENGINEER, THE PUBLIC INVOLVEMENT CONSULTANT (IF APPLICABLE) AND THE LITILITY COMPANY
- 31. ROADWAY LANE CLOSURES, DRIVEWAY CLOSURES, POTABLE WATERMAIN AND FORCEMAIN SHUT DOWNS MAY BE REQUIRED TO OCCUR AT NIGHT OR EARLY MORNING HOURS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR REQUIRED NIGHT WORK.
- 32. IN THE EVENT OF UNSCHEDULED WATERMAIN SHUT DOWNS (BREAKS) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE PUBLIC INVOLVEMENT CONSULTANT (IF APPLICABLE) AND THE UTILITY COMPANY TO DETERMINE THE AFFECTED AREA FOR "BOIL WATER NOTICES" THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE NECESSARY REPAIRS AND REQUIRED BACTERIOLOGICAL TESTS NECESSARY TO RETURN THE SYSTEM TO ITS NORMAL OPERATING CONDITION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ACCIDENTAL BREAKS, REPAIRS AND TESTING
- CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO EXISTING BUSINESSES AND RESIDENCES 33. AT ALL TIMES. IN THE EVENT OF A DRIVEWAY CLOSURE, THE CONTRACTOR SHALL PROVIDE A 'BUSINESS ACCESS" SIGN AT THE AVAILABLE ACCESS POINT UNTIL SUCH TIME THAT ALL ORIGINAL ACCESS POINTS ARE REOPENED.
- 34. ALL DRIVEWAYS WITHIN THE COUNTY RIGHT OF WAY SHALL BE CLASS 1 (3000 PSI AT 28 DAYS) AND 6" THICK
- 35. ALL SIDEWALKS PROPOSED AS PART OF THIS PROJECT SHALL BE CLASS 1 (3000 PSI AT 28 DAYS) 5' WIDE, AND 6" THICK.

QUANTITIES AND PAYMENT:

- CONTRACTOR SHALL REFER TO THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR 1. NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS.
- DIRECTIONAL BORE CASING AND CARRIER PIPE WILL BE PAID BASED ON QUANTITY PROVIDED IN PLANS AND BID TABULATION. NO ADDITIONAL PAYMENT SHALL BE MADE DUE TO CONTRACTOR MEANS AND METHODS, EQUIPMENT CAPABILITIES OR PRESENCE OF ROCK. DURING THE BID, THE CONTRACTOR SHALL ANALYZE THE DIRECTIONAL BORE LENGTHS TO DETERMINE FEASIBILITY BASED UPON SITE CONDITIONS, MEANS AND METHODS, EQUIPMENT TO BE USED, AND THE PRESENCE OF ROCK. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR EXTENSIONS BEYOND PLAN AND BID I ENGTHS

SIGNING AND PAVEMENT MARKING NOTES

- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF
- 2. TRAFFIC CONTROL DEVICES" AND WITH ALL OTHER GOVERNING SAFETY REGULATIONS.
- 3 EXISTING SIGNS SHALL REMAIN UNLESS NOTED OTHERWISE
- 4. ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" THERMOPLASTIC WHITE STOP BAR.
- UNLESS A DETAILED BID QUANTITY BREAKDOWN IS PROVIDED.
- 7. ALL SIGNS THAT ARE EMBEDDED IN CONCRETE OR ASPHALT SHALL BE INSTALLED IN A F.D.O.T. APPROVED PIPE SLEEVE

THE E D O T STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION. THE E D O T DESIGN STANDARDS INDEX. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND ALL APPLICABLE LOCAL STANDARDS, UTILIZATION OF THE 2009 M.U.T.C.D. SHALL BE IN ACCORDANCE WITH F.D.O.T. POLICY

DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITIONS OF THE "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND WITH THE "MANUAL ON UNIFORM

MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED BY HYDRO-BLASTING.

5. ALL ROADWAY SIGNING AND PAVEMENT MARKINGS, STREET NAME SIGNS, ETC. (EXCLUDING PROJECT IDENTIFICATION SIGNING) ARE TO BE INCLUDED IN THE LUMP SUM PRICE FOR SIGNING AND MARKING

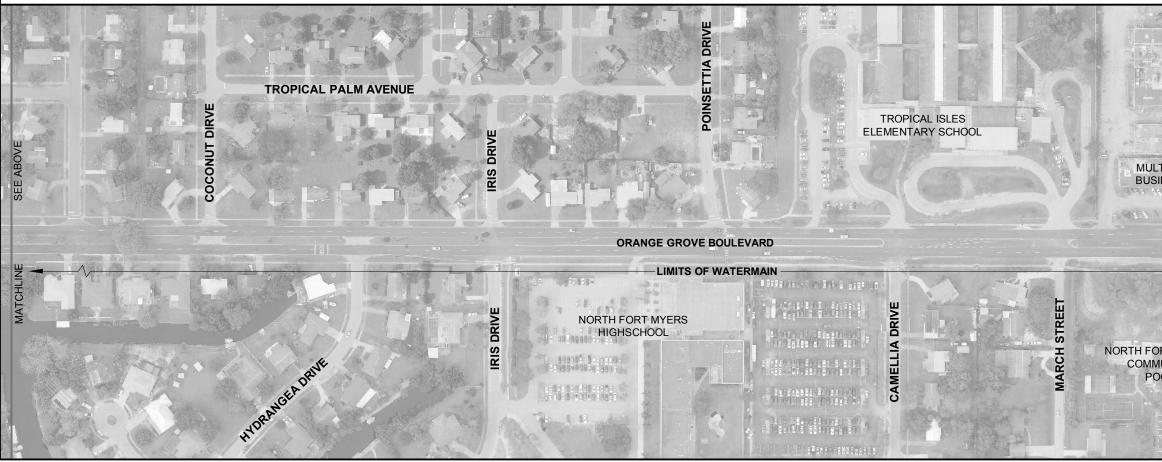
6. ANY EXISTING SIGN TO REMAIN THAT IS RELOCATED OR DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT F.D.O.T. STANDARD INDEXES 11860 AND 17302 FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION. ANY SIGNS DAMAGED BY CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF

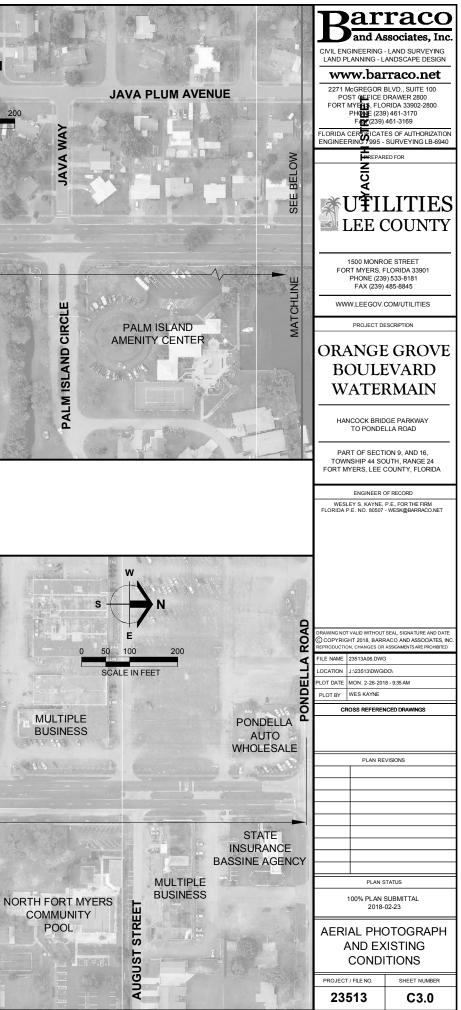
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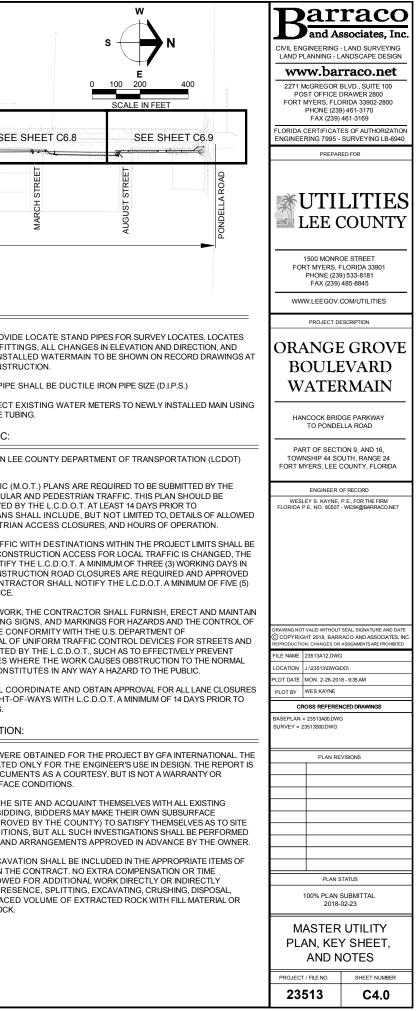
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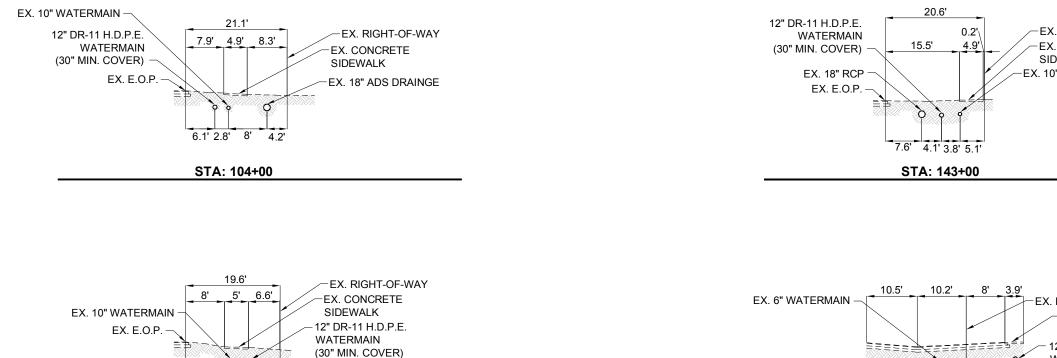


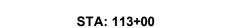




HANCOCK BRIDGE PARKWAY		RIDGEWAY DRIVE		JAVA WAY		HVAGINTH STREET	COCONUT DRIVE	IRIS PLACE	POINSETTIA DRIVE	
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1500 MONROE ST. FORT MYERS, FL 33901 PHONE (239) 533-8160 TELEPHONE	3.	NOT EXCEED 5% PROPOSED VALV	, INCLUDING SIDEWALK CROSSING (ES, BLOW-OFFS AND OTHER UTIL I PROPOSED OR EXISTING SIDEW		19.	ALL ASBESTOS C PERFORMED BY A DONE IN ACCORE	ONCRETE PIPE TO BE REMOVED A A CONTRACTOR LICENSED AND C	ERTIFIED TO DO SO AND SHALL BE ND FEDERAL REGULATIONS, INCLUDING	6, 35.	EVERY 100' ALONG THE IN THE COMPLETION OF CON
CENTURYLINK TELEPHONE CO. 5100 DANIELS PARKWAY #300 FORT MYERS, FL 33912 PHONE (239) 590-0440	4. 5.	UNDER PAVEMEN	PTH OF COVER FOR ALL BURIED IT WITH A MAXIMUM DEPTH OF 48 INS TO BE TAKEN OUT OF SERVIC		20.	THE RESPONSIBIL	ITY OF THE CONTRACTOR. COST ( MISC. BID TABULATION ITEMS, AN	ED STATE OF FLORIDA P.S.M. SHALL BE DF CONSTRUCTION STAKING SHALL B ND NO ADDITIONAL PAYMENT SHALL BE	E	. CONTRACTOR TO CONNE LIKE-SIZED POLY SERVICE AINTENANCE OF TRAFFIC
ELECTRIC L.C.E.C. 4980 BAYLINE DRIVE NORTH FORT MYERS, FL 33917	6.	WATER AND SEW	R SHALL REFERENCE LEE COUNT /ER EXTENSION POLICY FOR ADDI		21.	OF ALL TRAFFIC S AND ANY OTHER			I RIG	IESE NOTES ARE FOR WORK IN GHT-OF-WAYS ONLY. MAINTENANCE OF TRAFFI CONTRACTOR FOR VEHICI
PHONE (239) 995-2121 FIRE CONTROL DISTRICT NORTH FORT MYERS FIRE CONTROL DISTR	7. RICT 8.	EXISTING WATER PIPE.		RATE SIGNAL FOR LOCATION OF DIG HOLE EVERY 100 FEET TO LOCATE NO HIGH POINTS IN PIPE. CONTRACTOR	22.	WITHIN THE CON UPON APPROVAL	STRUCTION LIMITS. IF NOT FEASIE , THE CONTRACTOR MAY PROVID	TO MAINTAIN PEDESTRIAN ACCESS BLE DUE TO SAFETY CONCERNS, AND E PROPER SIGNAGE AND CONTROLS TI -WAY. CLOSURE SHALL BE AT THE COS		SUBMITTED AND APPROVI MOBILIZATION. M.O.T. PLAI LANE CLOSURES, PEDEST
2900 TRAIL DAIRY CIRCLE NORTH FORT MYERS, FL 33917 PHONE (239) 997-8654	9.	SHALL ADJUST P	IPE DEPTH OF COVER AS NECESS	SARY TO MEET THIS REQUIREMENT.		OF THE CONTRAC		VIDED TO DIRECT AND RE-DIRECT	Ζ.	ACCESS FOR LOCAL TRAF MAINTAINED. IF DURING C CONTRACTOR SHALL NOT ADVANCE. IF DURING CON
GAS TECO PEOPLE'S GAS 5901 ENTERPRISE PARKWAY	10.	BY THE CONTRA	CTOR. REPAIRS SHALL INCORPOR	E LIMITS SHOWN SHALL BE REPAIRED RATE THE ENTIRE LENGTH OF DAMAGE ITIONAL COMPENSATION SHALL BE	23.	TAPING OF THE E			3.	BY LEE COUNTY, THE CON WORKING DAYS IN ADVANO PRIOR TO COMMENCING W
FORT MYERS, FL 33905 PHONE (239) 832-6747 SOLID WASTE	11.			BE FROM EDGE OF PAVEMENT / R RIGHT-OF-WAY LINE, WHICHEVER IS	24. 25.	CONTRACTOR SH AND MARKINGS II	N ACCORDANCE WITH F.D.O.T. SP	RIPING WITH THERMOPLASTIC STRIPING ECIFICATIONS. PAYMENT SHALL BE	i	ALL BARRICADES, WARNIN TRAFFIC, IN REASONABLE TRANSPORTATION MANUA HIGHWAYS, OR AS DIRECT ACCIDENTS IN ALL PLACE:
WASTE PRO USA 13110 RIEKENBACKER PKWY. FORT MYERS, FL 33913 PHONE (239) 337-0800	12. 13.	ENGINEER, BUT		ACED AT THE DIRECTION OF THE Y OVER THE NEWLY INSTALLED UTILITY. 13° ENTRANCE AND EXIT ANGLES AND	26.	CONTRACTOR SH			4.	TRAFFIC PATTERN OR CO
IRRIGATION WATER IRRIGATION SHALL BE PROVIDED BY L.C.D.O.T. 1500 MONROE ST.		CLEARANCES SH ENTRY AND EXIT CONDITIONS END		E CONTRACTOR MAY ADJUST THE FURE AS REQUIRED BASED ON FIELD STRUCTION AND THE CAPABILITIES OF	27.	ON A COMBINATIO		EPICTED IN THIS PLAN SET ARE BASED RMATION, SURVEY DATA, LEE COUNTY ETATION.	SL == 1.	UBSURFACE INVESTIGAT
FORT MYERS, FL 33901 PHONE (239) 533-8109 CABLE TELEVISION:	14.	IT SHALL BE THE O	SITION OF WATERMAINS USING NO	TO CONSTRUCT HORIZONTAL AND O MORE THAN 75% OF THE MAXIMUM	28.	UTILITIES, DRAIN	) VERIFY HORIZONTAL AND VERTI AGE, FEATURES, STRUCTURES, AN OF CONSTRUCTION.			REPORTS WERE GENERA INCLUDED IN THE BID DOO GUARANTEE OF SUBSURF
COMCAST 12641 CORPORATE LAKES DRIVE FORT MYERS, FL 33913	15.	DRAWINGS SHAL CONNECTIONS, 1			29.		) VERIFY MATERIAL TYPE AND SIZ PROPOSED WATERMAIN PRIOR T	ES OF ALL EXISTING WATERMAIN TO O COMMENCEMENT OF	2.	CONDITIONS. PRIOR TO B INVESTIGATIONS (AS APPE AND SUBSURFACE CONDI
PHONE (239) 908-6571 UTILITY LOCATING SERVICE	10.		UCTION AND FOR ASSOCIATED MC		30.		IALL UTILIZE HYMAX ADAPTER CC D EXISTING ASBESTOS CONCRETE	UPLING OR APPROVED EQUAL AT ALL WATERMAIN.	3.	
SUNSHINE STATE ONE CALL CENTER PHONE 811 (MINIMUM 48 HOURS NOTICE REQUIRED)	16.	WASTE MATERIA ROCK. CONTRAC	L TO INCLUDE EXCESS SPOILS, D	THE REMOVAL AND DISPOSAL OF ALL RILLING FLUID, DEMOLITION DEBRIS AND SPOSE OF ALL MATERIAL AT AN OFF-SITE N REQUIREMENTS	31. 32.	CONSTRUCTION.	REPLACE ANY TRAFFIC LOOPS IN NO ADDITIONAL COMPENSATION	SHALL BE MADE.		WORK CONTAINED WITHIN EXTENSION WILL BE ALLO' ASSOCIATED WITH THE PI REPLACEMENT OF DISPLA SPECIAL HANDLING OF RO
FIBER NETS FP&L	17.	CONTRACTOR TO	) COORDINATE BRACING, PROTEC ES WITH THE UTILITY OWNER. AN	TION AND OR RELOCATION OF	JZ.	ADDITIONAL BEN	DS MAY BE REQUIRED TO BEND M ALLED, CONTRACTOR TO INSTALL	IAINS AS SHOWN. IF ANY ADDITIONAL		SPECIAL HANDLING OF RU
15834 WINKLER ROAD FORT MYERS, FL 33908 PHONE (866)-553-4237	18.	UTILITIES IS CON BY THE CONTRAI ALL EXISTING MA	SIDERED INCIDENTAL TO THE PIF CTOR. NO ADDITIONAL COMPENS/ INS WHICH ARE TO BE REPLACED	PE INSTALLATION AND SHALL BE BORNE	33.	PROPOSED TEE F BENEATH ADJACE				

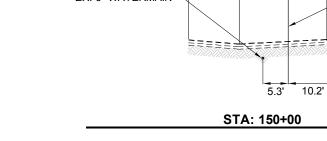


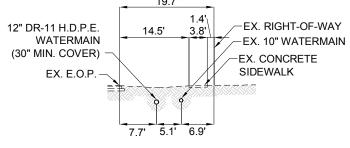




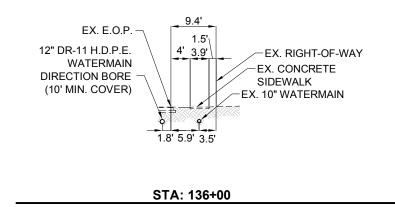
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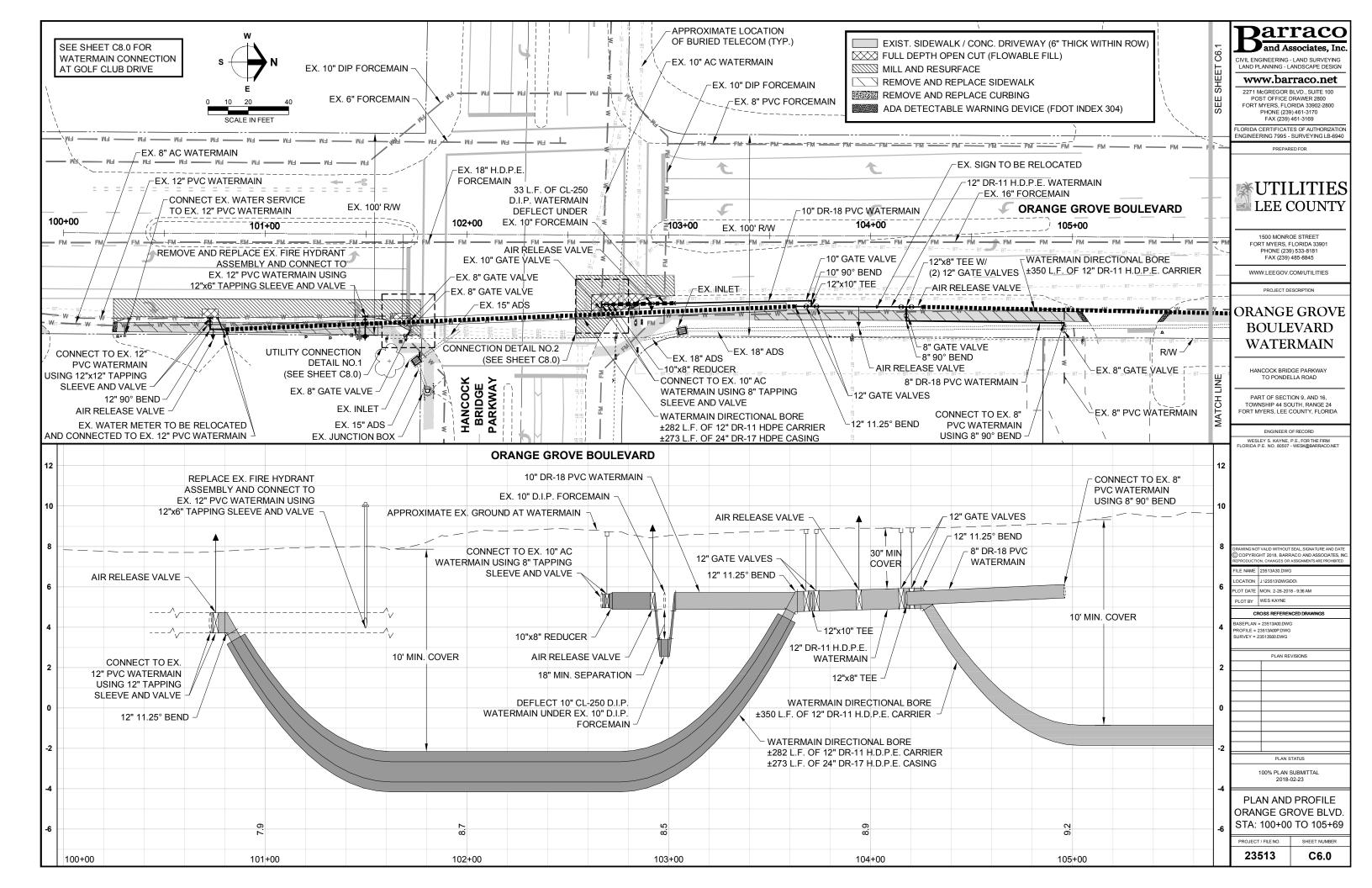


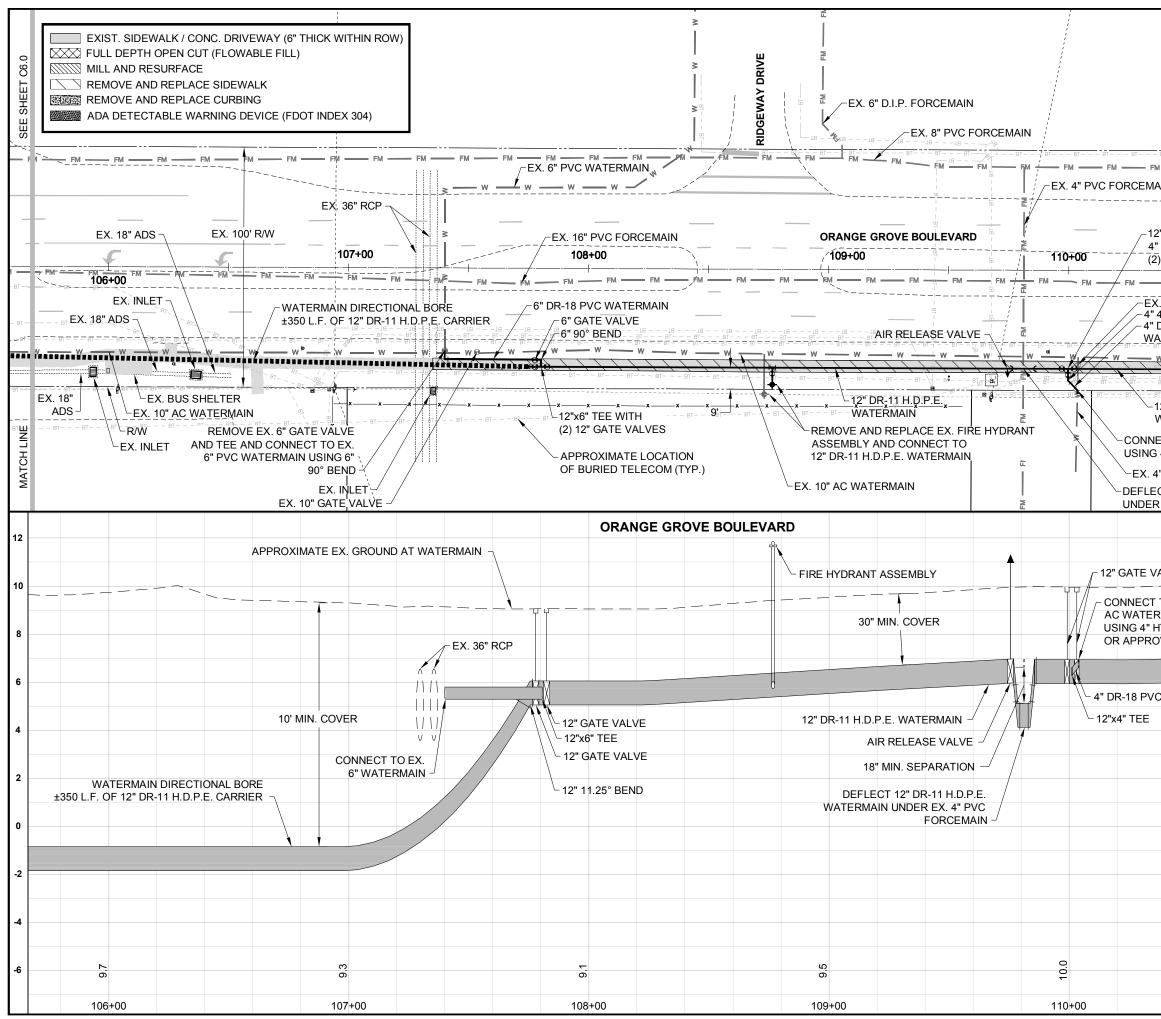
EX. RIGHT-OF-WAY EX. CONCRETE SIDEWALK -EX. 10" WATERMAIN

> EX. RIGHT-OF-WAY EX. CONCRETE SIDEWALK 12" DR-11 H.D.P.E.

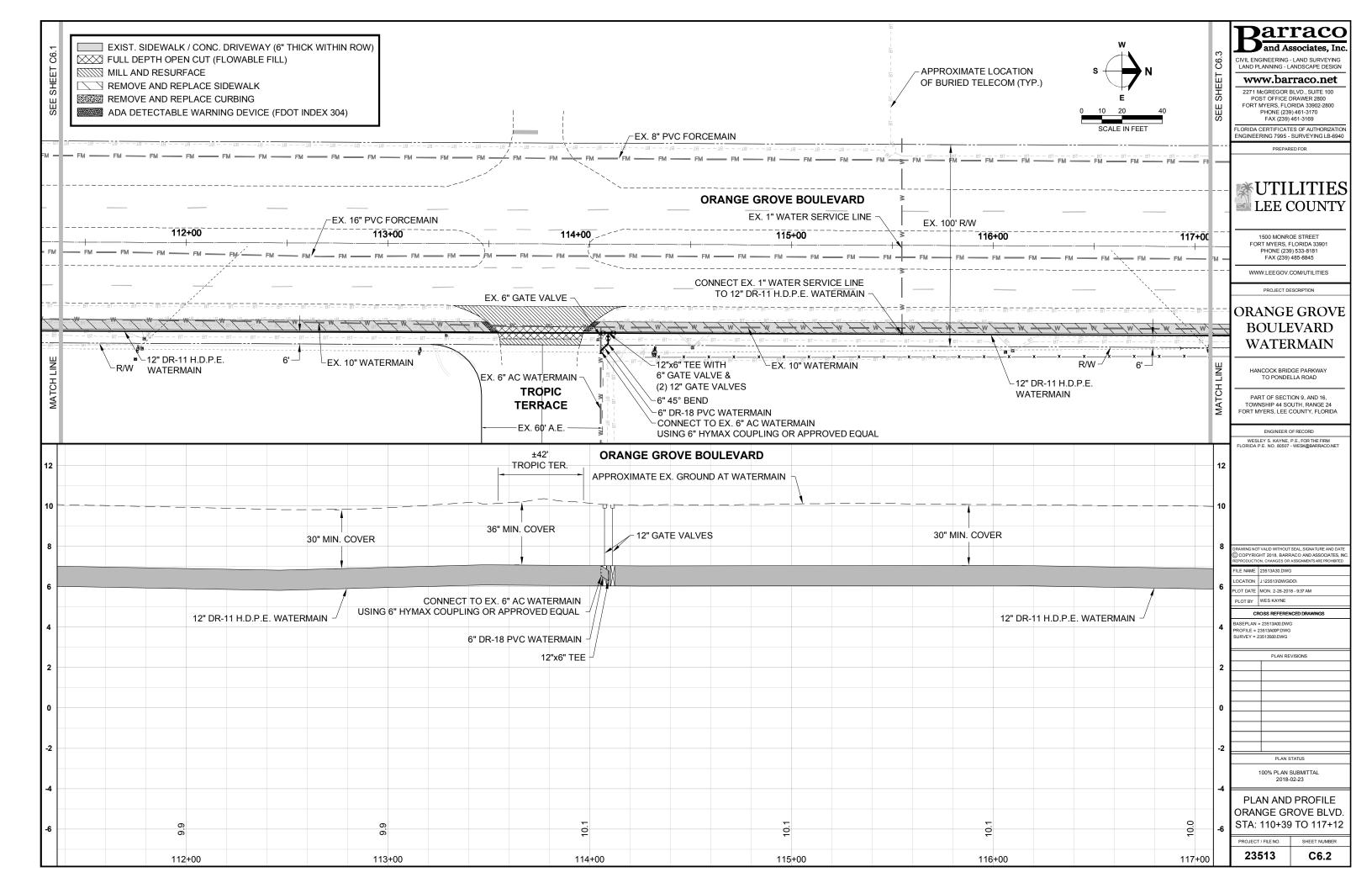
WATERMAIN (30" MIN. COVER)

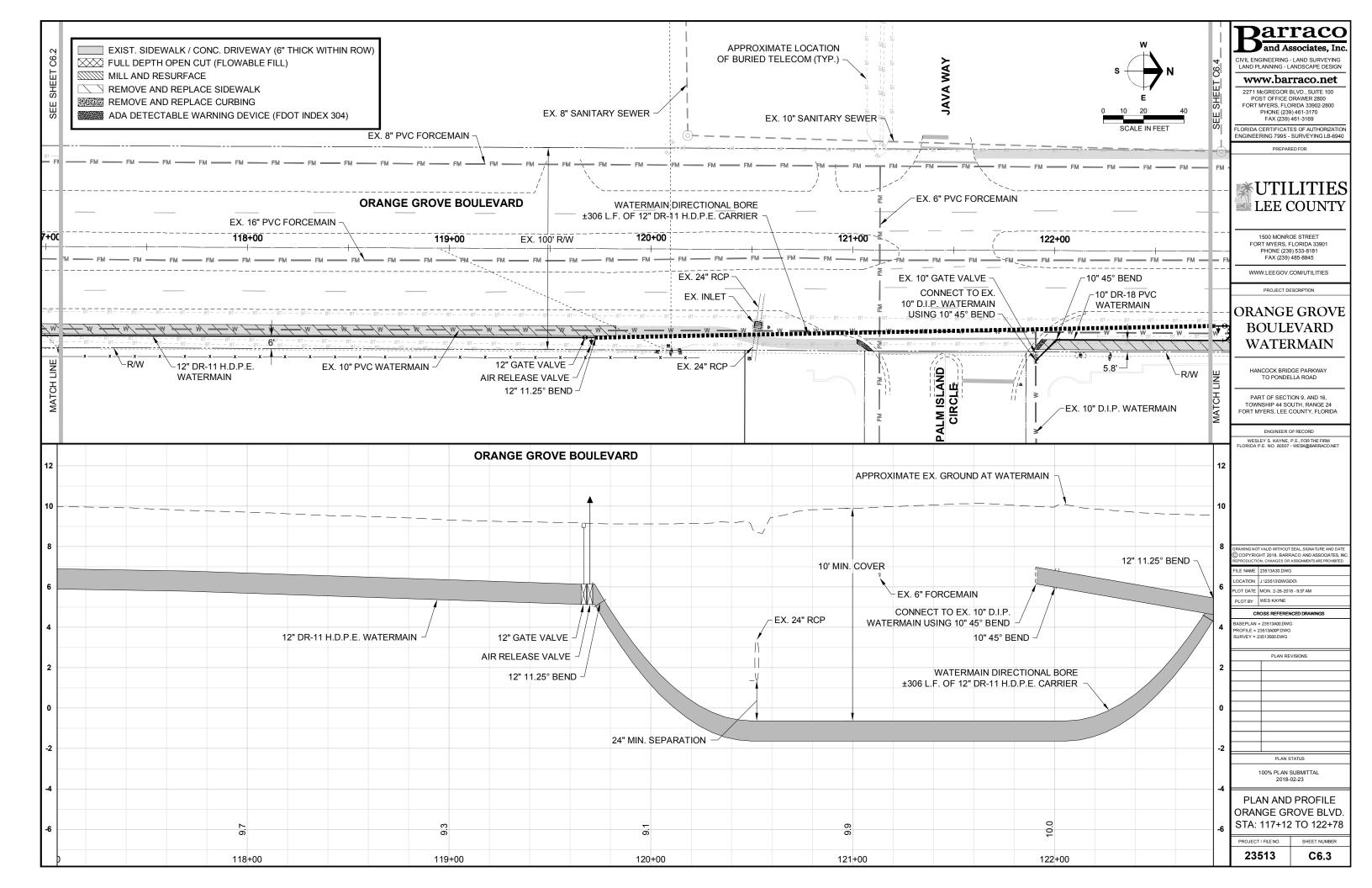
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	PREPAR	EDFOR	
		LITIES COUNTY DE STREET	
FOR	T MYERS, F	LORIDA 33901	
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VVVV	V.LEEGUV.	SOW/UTILITIES	
BC	OULE	E GROVE EVARD RMAIN	
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TOWN	ISHIP 44 SC	ION 9, AND 16, DUTH, RANGE 24 COUNTY, FLORIDA	
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		SEAL, SIGNATURE AND DATE ACO AND ASSOCIATES, INC.	
REPRODUCTIO	N, CHANGES OR	ASSIGNMENTS ARE PROHIBITED	
	23513A18.DWG		
	MON. 2-26-201		
	WES KAYNE		
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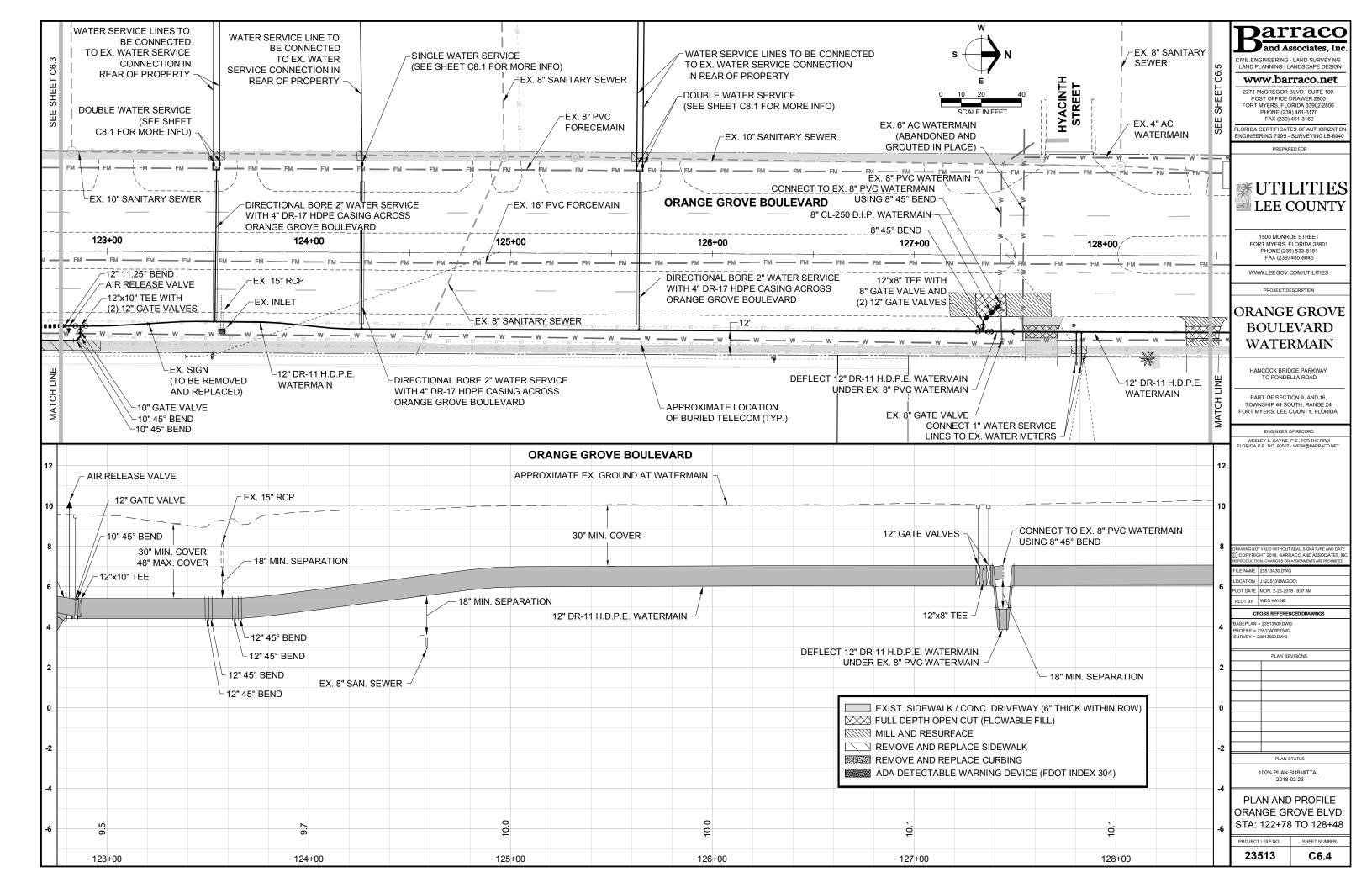


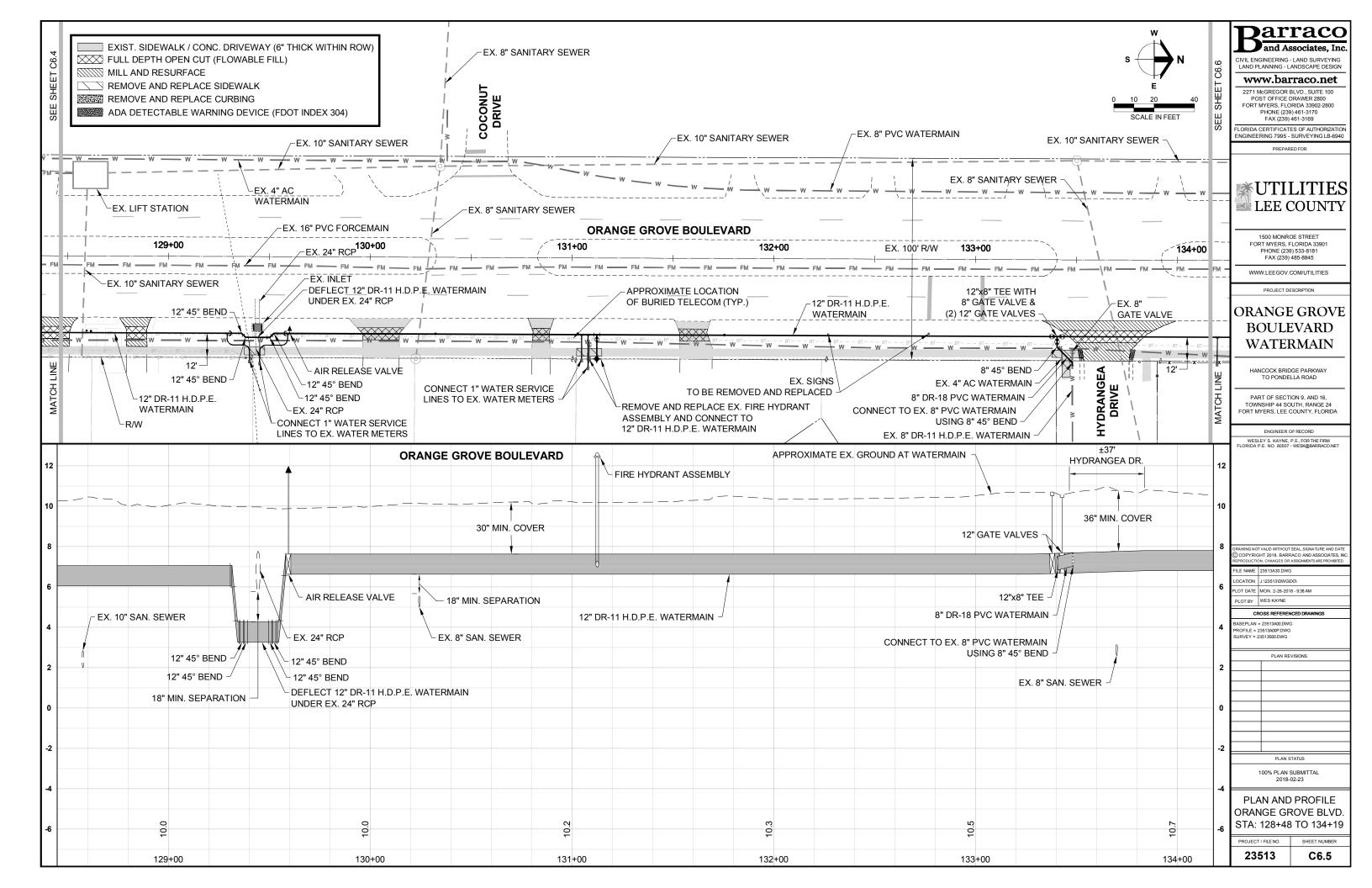


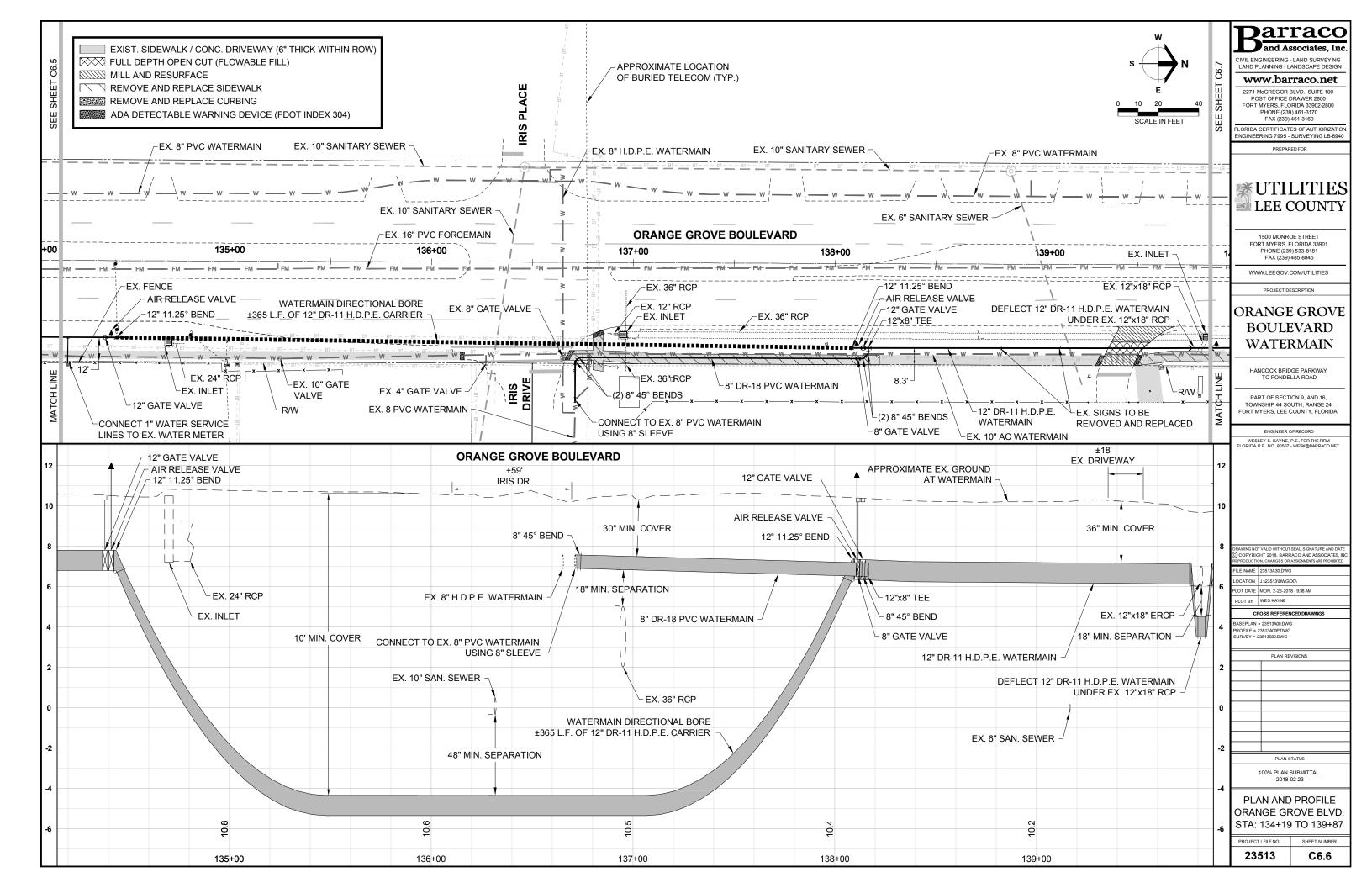
		-	
W     S       0     10       20     40       SCALE IN FEET	M4 - M	CIVIL ENGINEERING LAND PLANNING - I WWW.Dat 2271 McGREGOR POST OFFICE FORT MYERS, FL PHONE (23 FAX (239) FLORIDA CERTIFICAT ENGINEERING 7995	ANDSCAPE DESIGN <b>TRACO.NET</b> BLVD., SUITE 100 DRAWER 2800
NIN         "X4" TEE WITH         GATE VALVE &         ) 12" GATE VALVES         111+00		1500 MONR FORT MYERS, PHONE (23	9) 533-8181 485-8845
DR-18 PVC ATERMAIN (2) 12" 45° BENDS W W W W W W W W W W W W W	MATCH LINE	BOUL WATE HANCOCK BRI	E GROVE EVARD RMAIN DIGE PARKWAY ELLA ROAD
CT 12" DR-11 H.D.P.E. WATERMAIN R EX. 4" PVC FORCEMAIN ±18' EX. DRIVEWAY ALVES	12	ENGINEER WESLEY S. KAYNE FLORIDA P.E. NO. 80507	of Record P.E. For The Firm - Wesk@Barraco.net
TO EX. 4" RMAIN 36" MIN. COVER IYMAX COUPLING IVED EQUAL	8	DRAWING NOT VALD WITHOU © COPYRIGHT 2018, BAR REPRODUCTION, CHANGES OF FILE NAME 23513A30.DW LOCATION J:123513DWG PLOT DATE MON. 2-26-20	RACO AND ASSOCIATES, INC. RASSIGNMENTS ARE PROHIBITED G
C WATERMAIN 12" 45° BEND - 12" 45° BEND - 12" 45° BEND -	4	PLOT BY         WES KAYNE           CROSS REFERE           BASEPLAN = 23513A00.DW           PROFILE = 23513A00.DWG           SURVEY = 23513S00.DWG	NCED DRAWINGS
	0 -2	PLAN	STATUS
	-4	PLAN ANE ORANGE GI	D PROFILE ROVE BLVD. TO 110+39
111+00		23513	C6.1

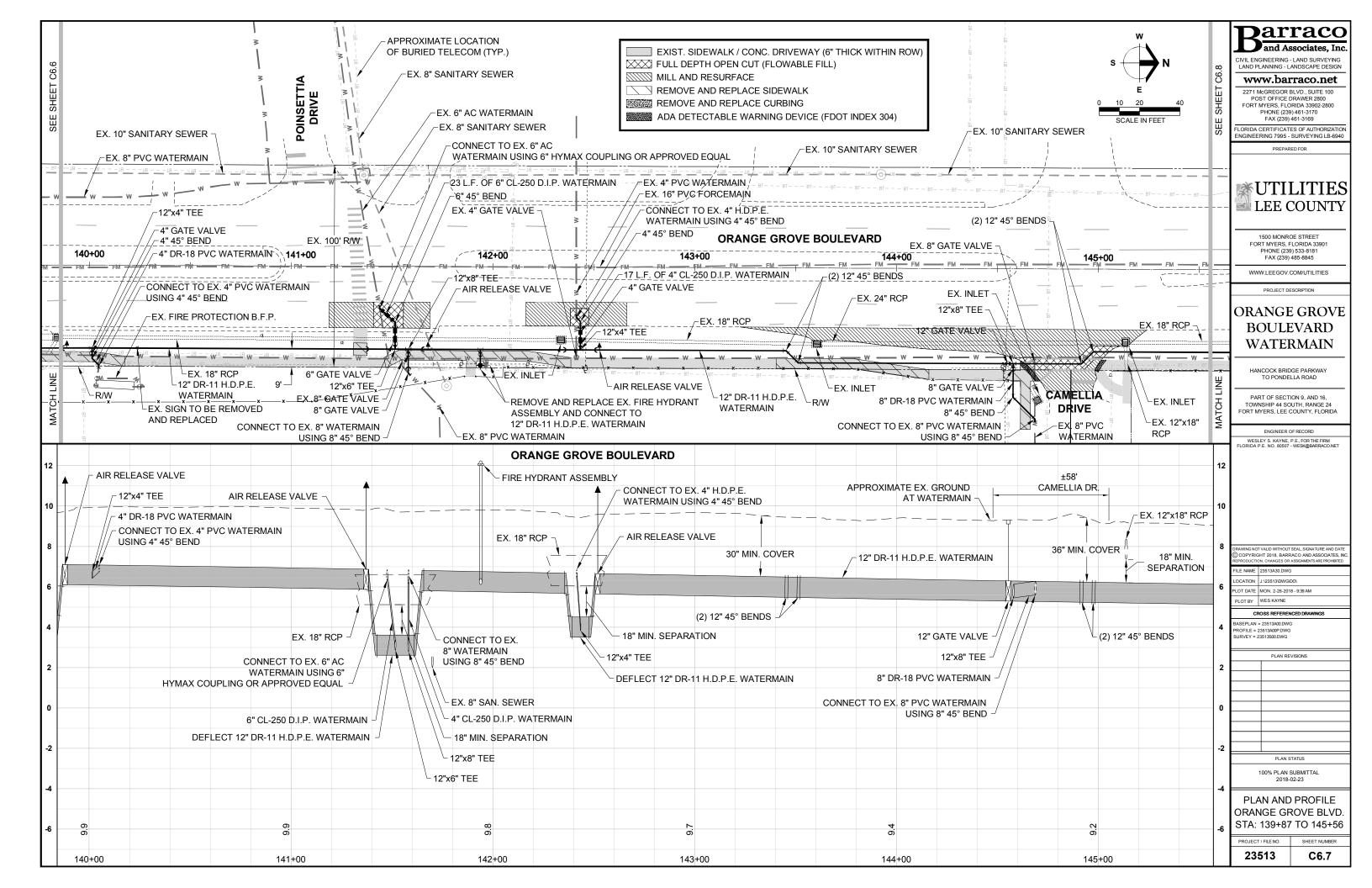


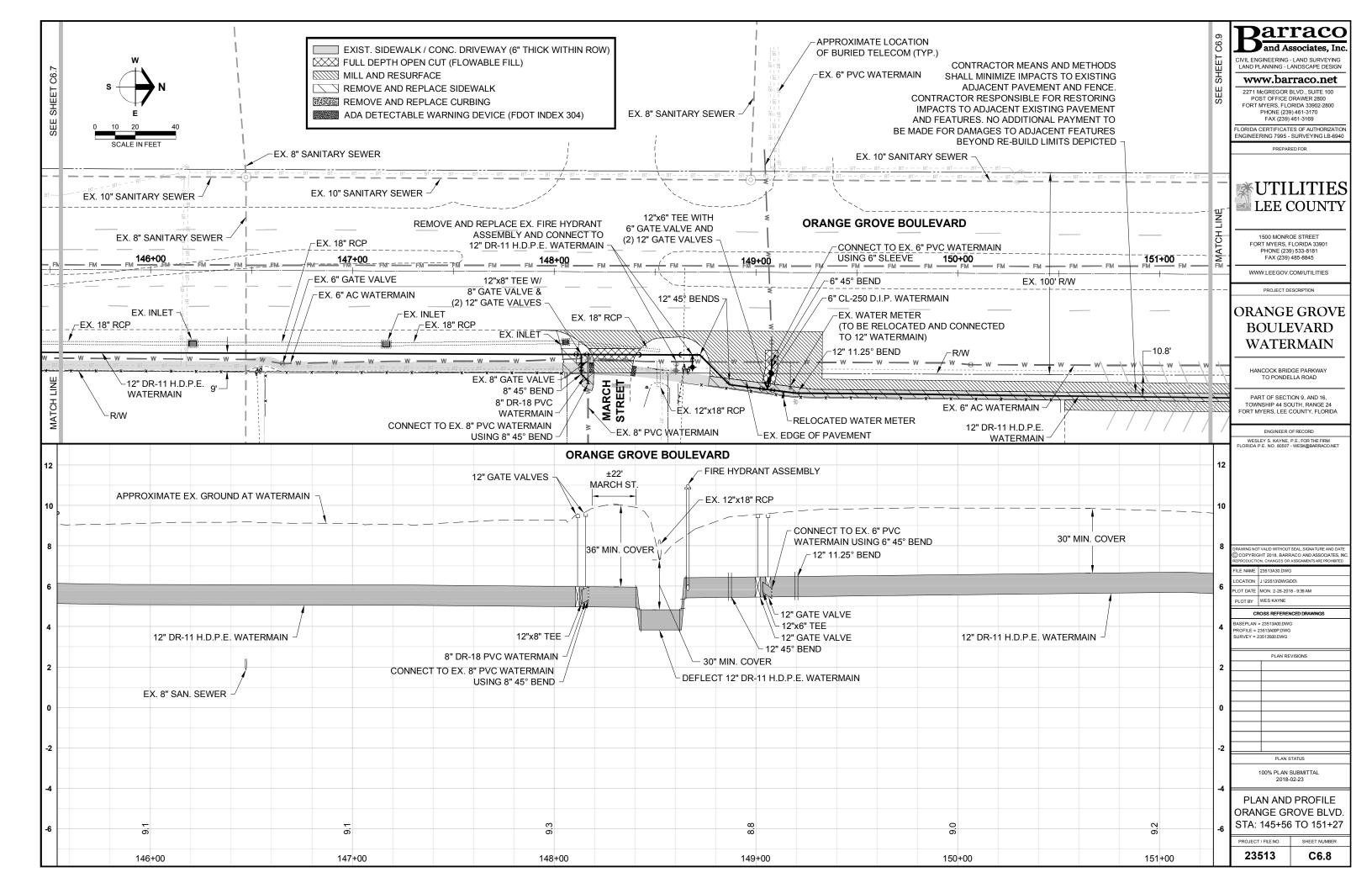


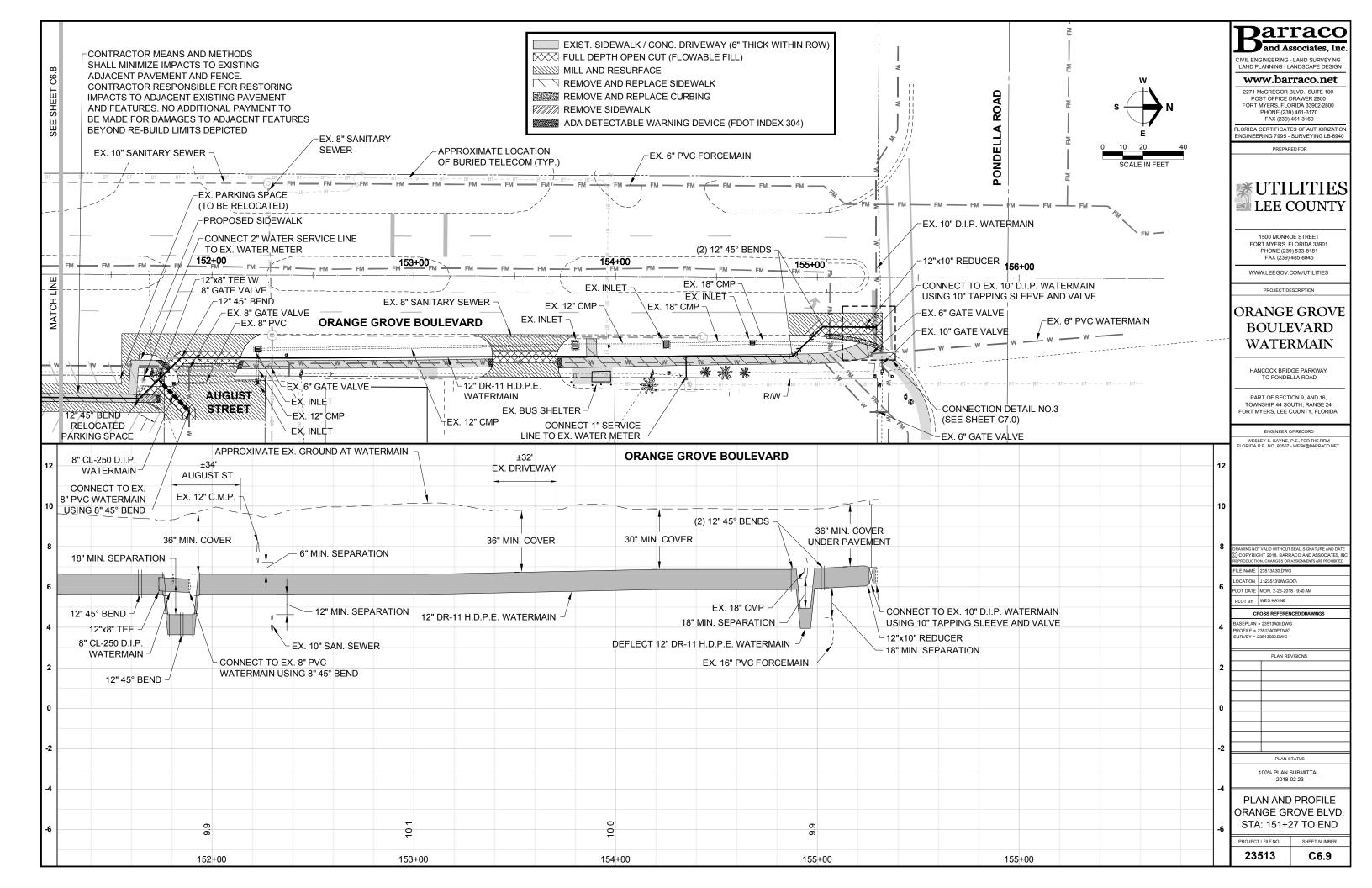


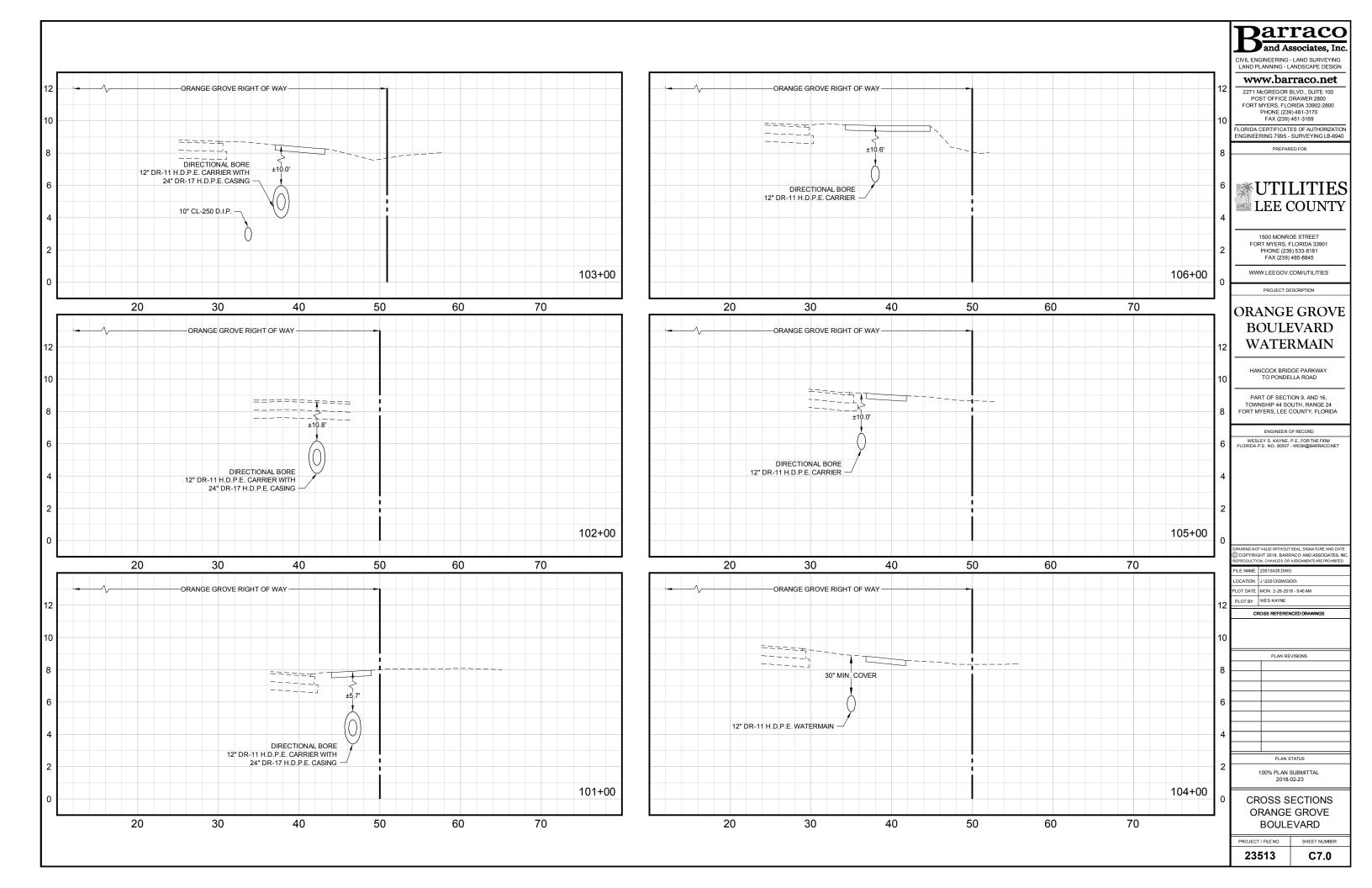


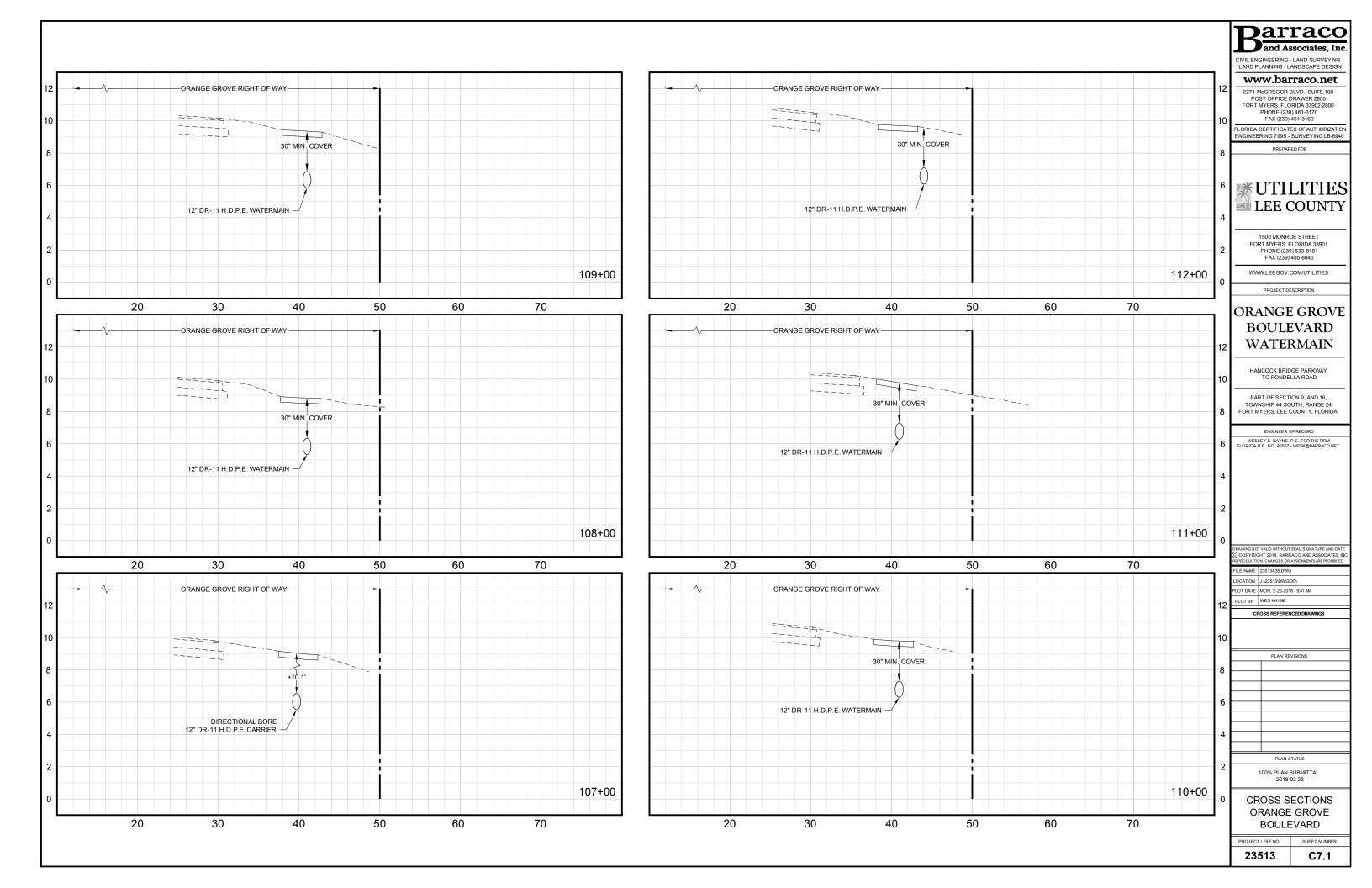


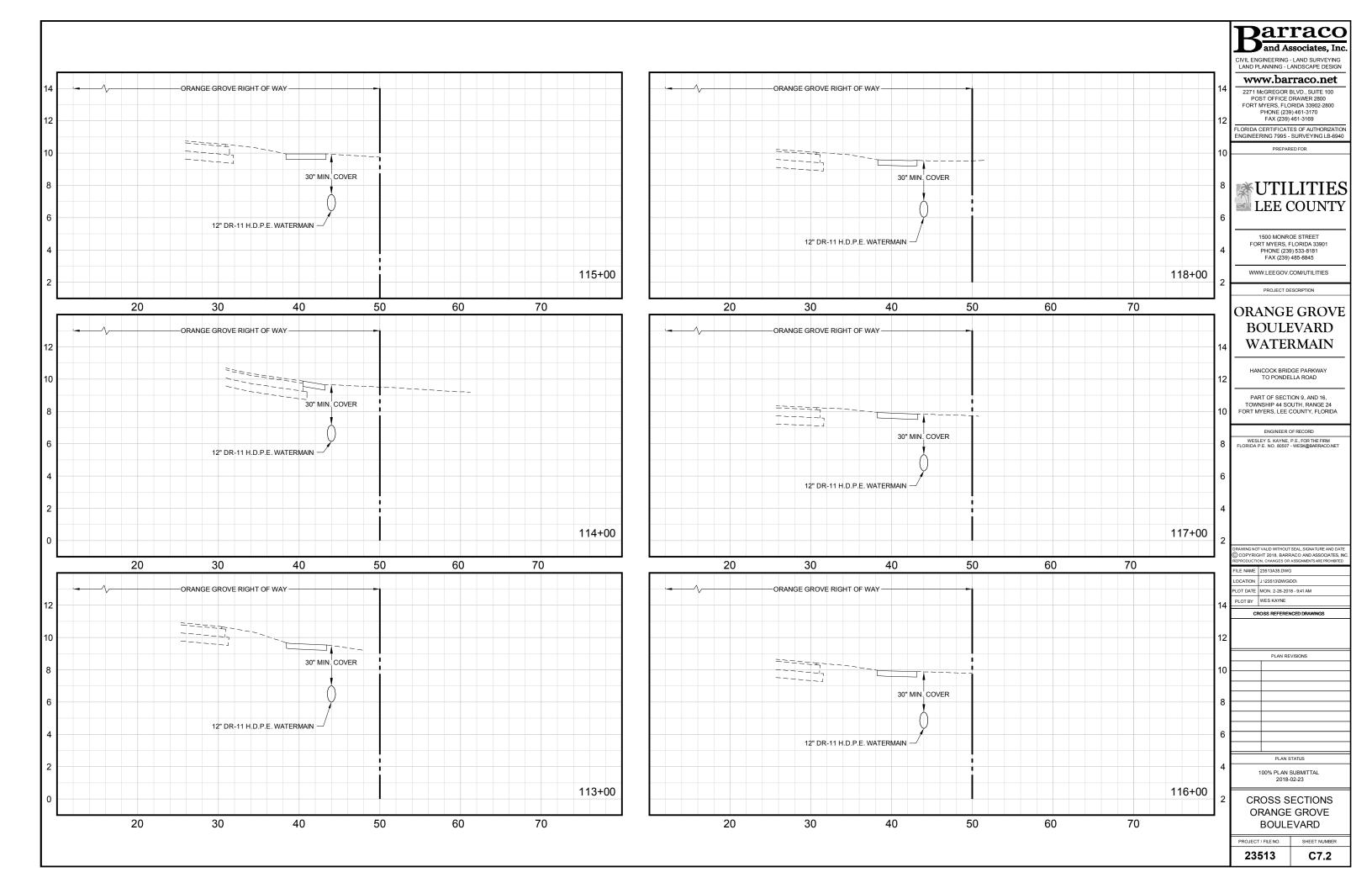


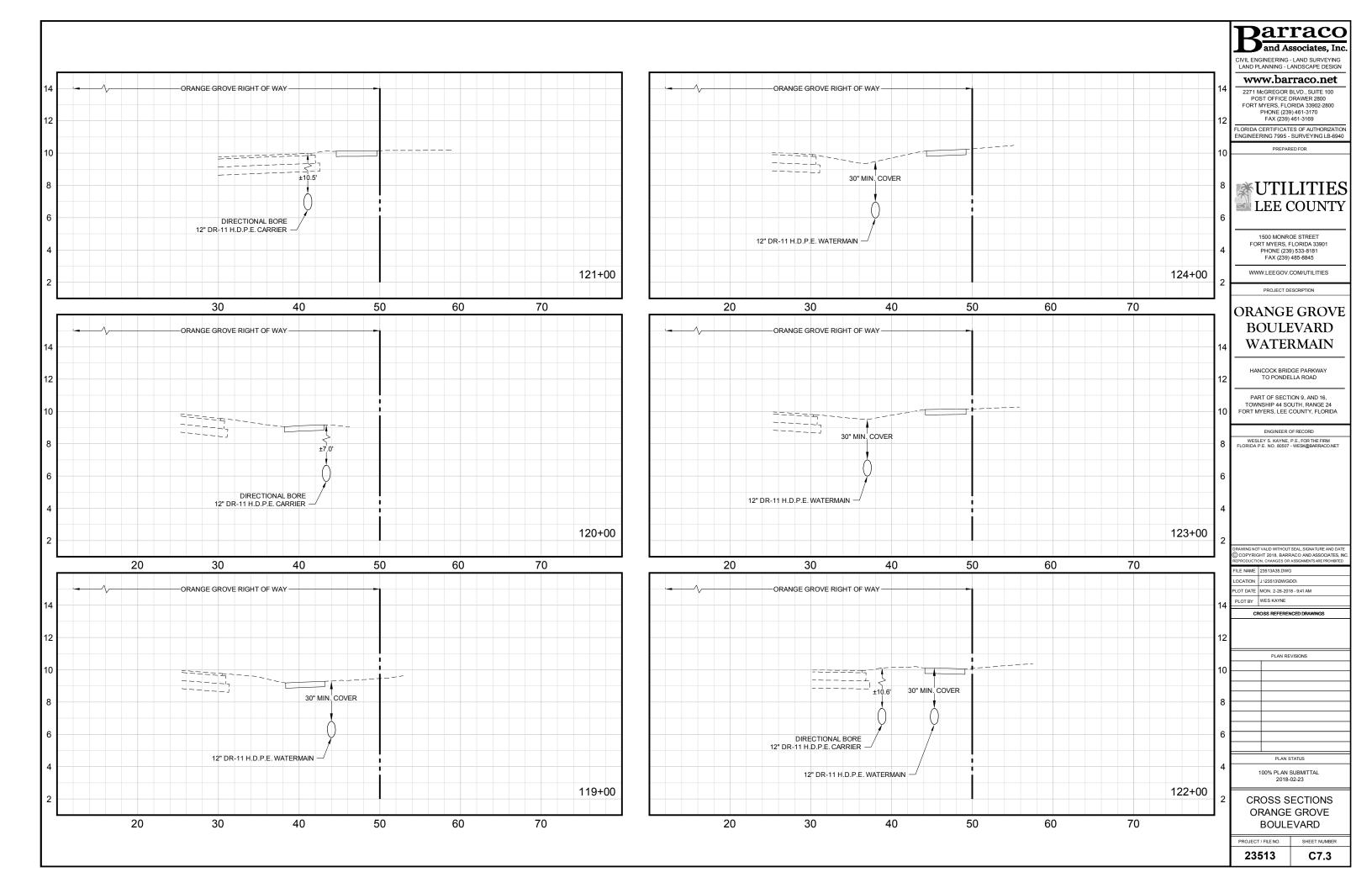


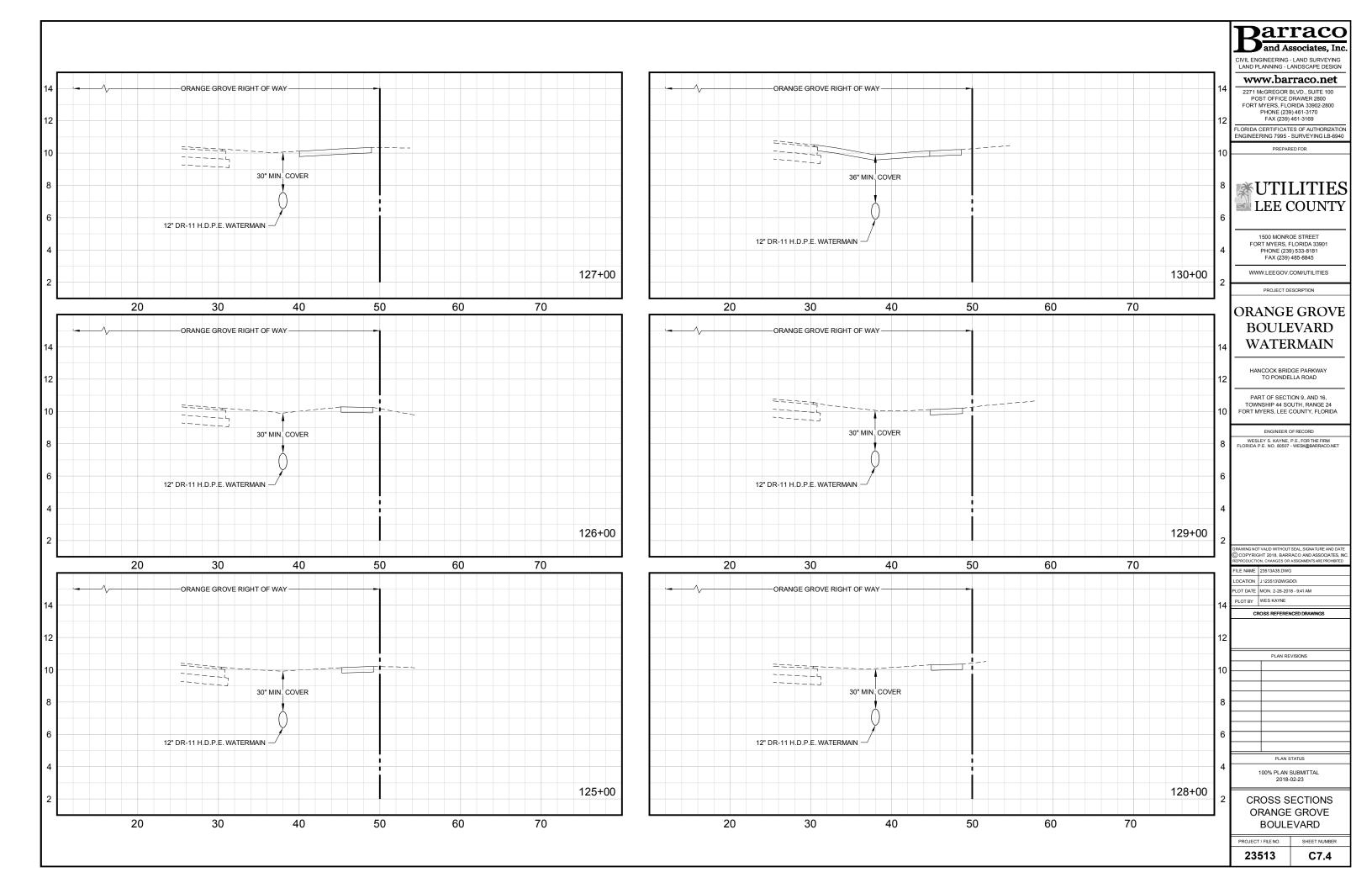


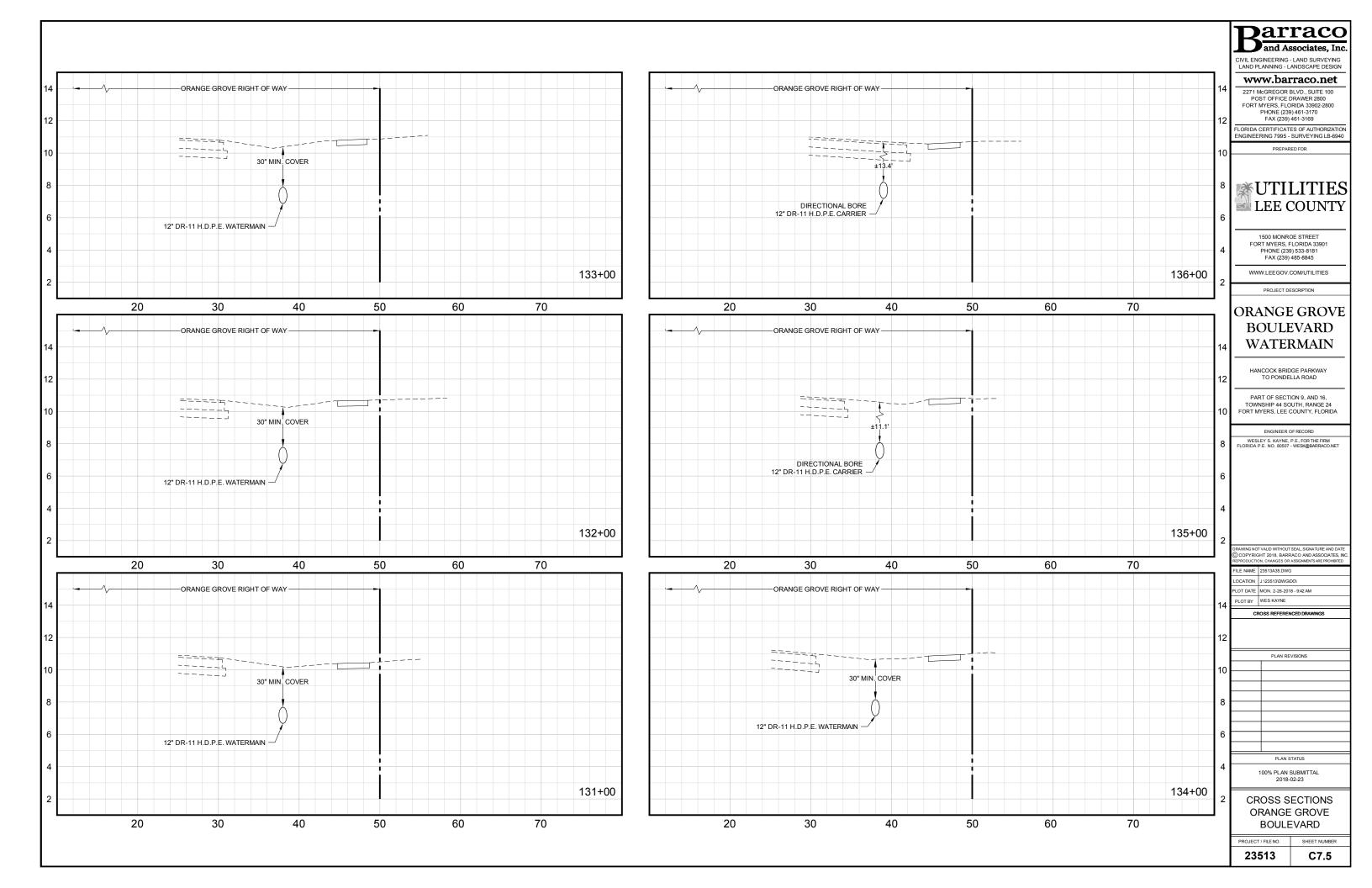


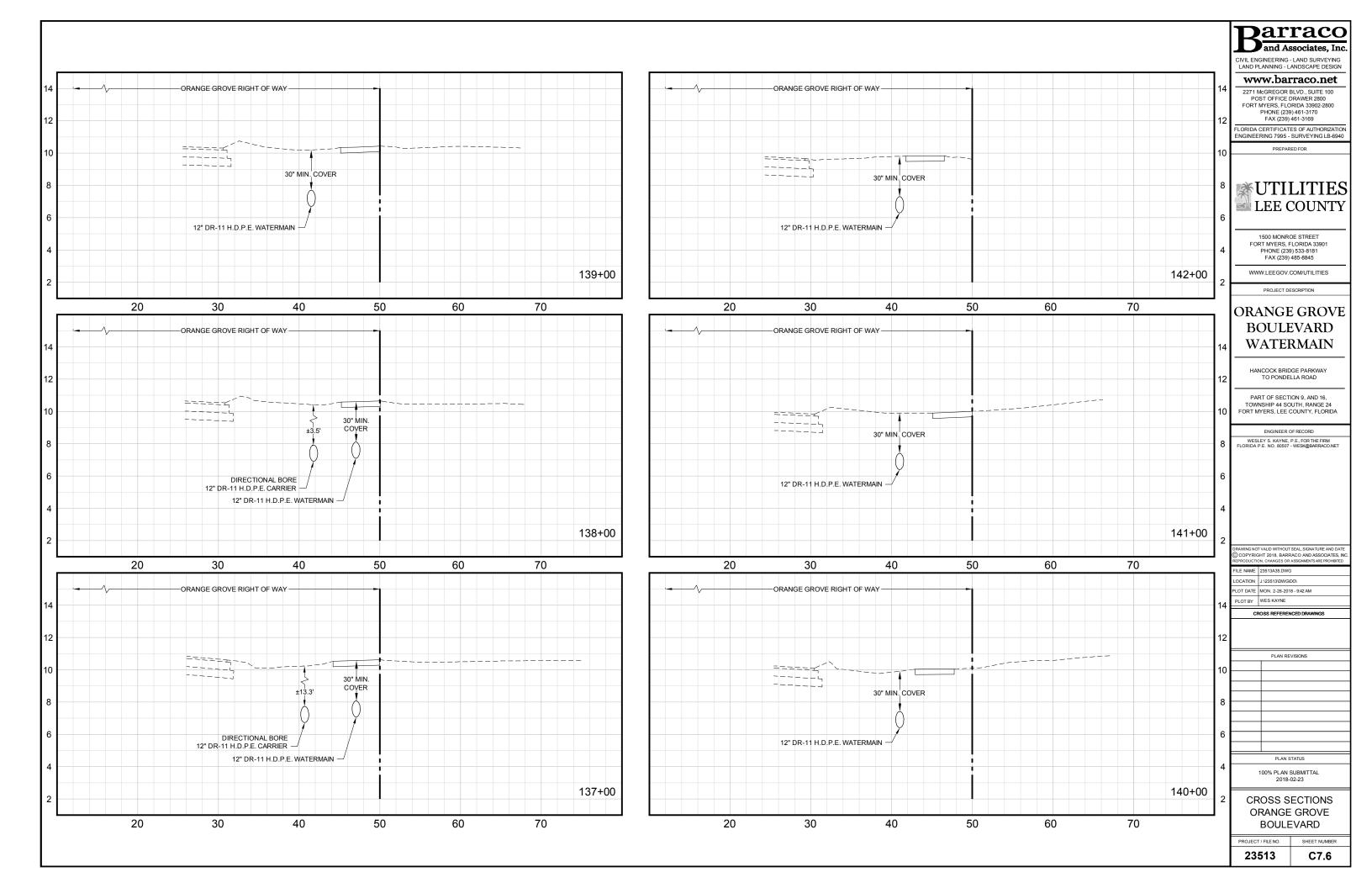


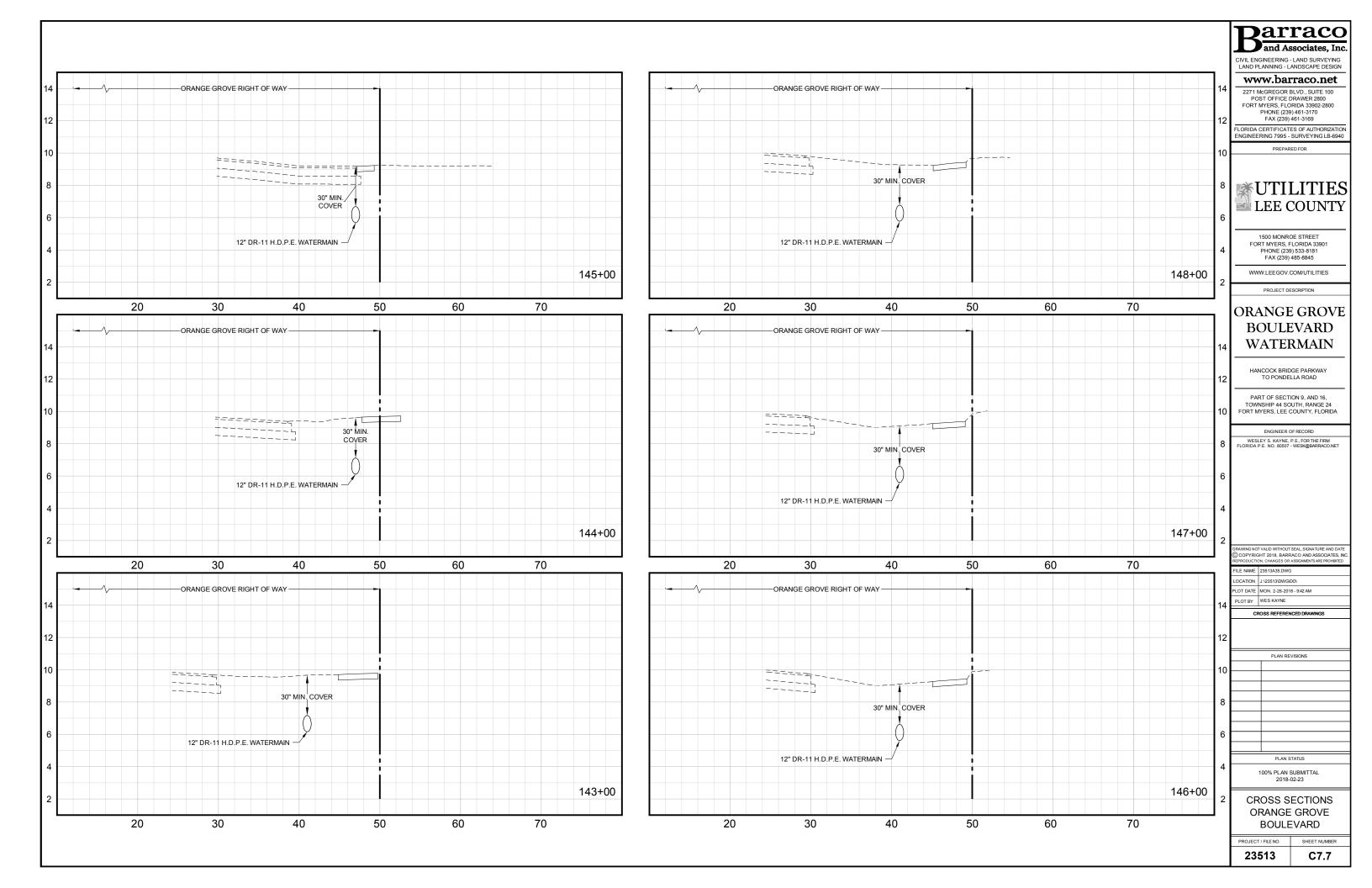


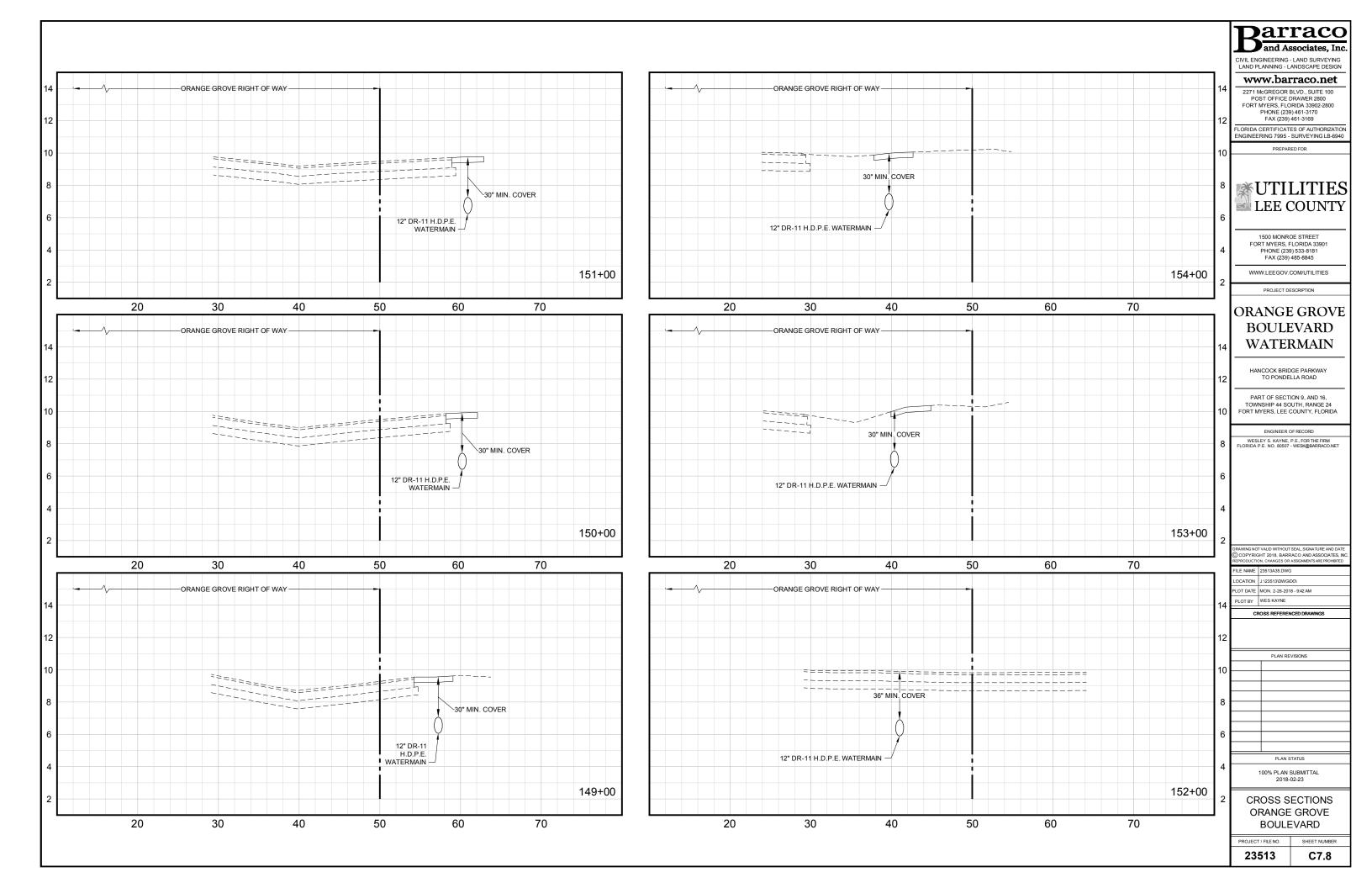


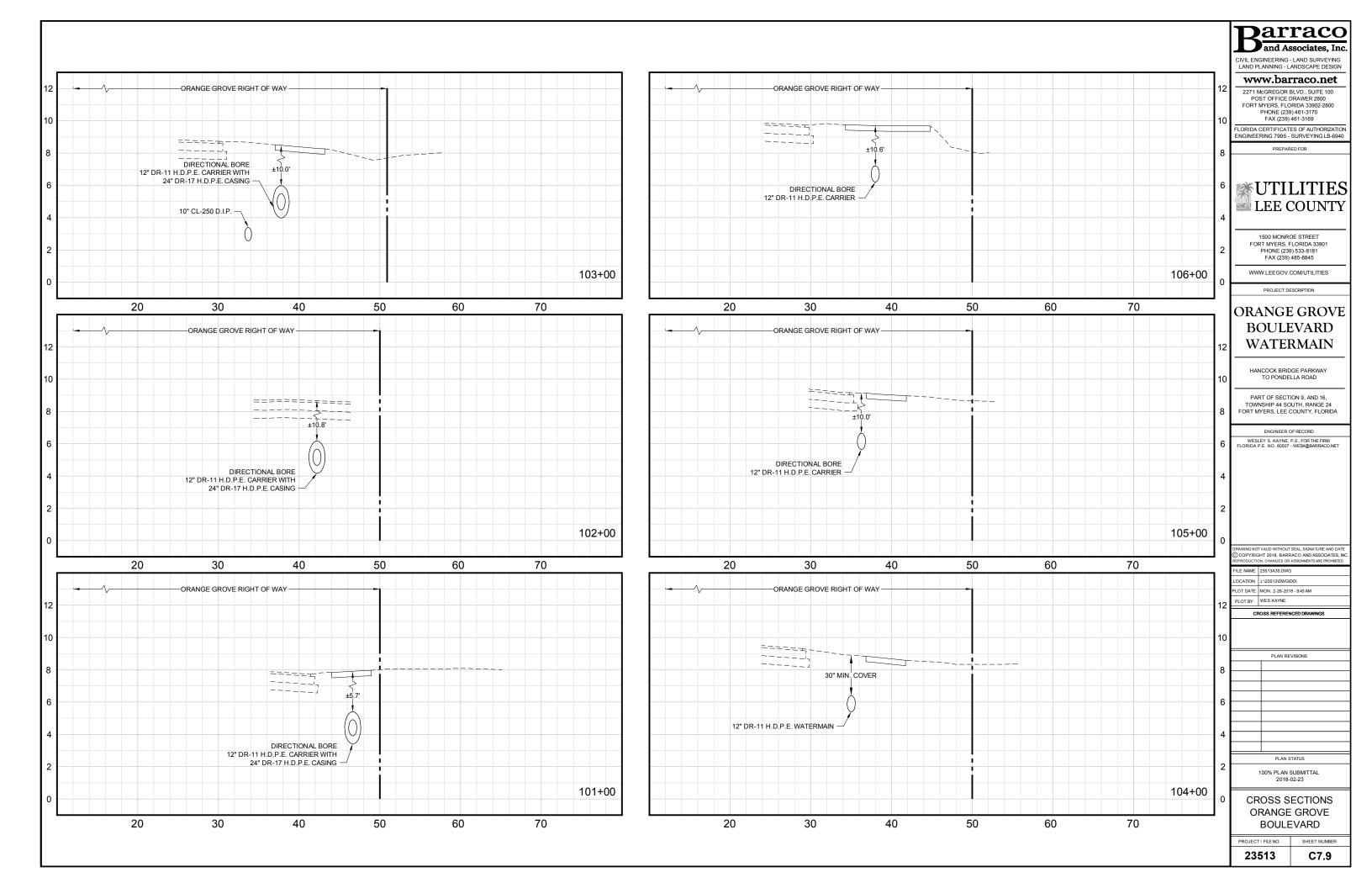


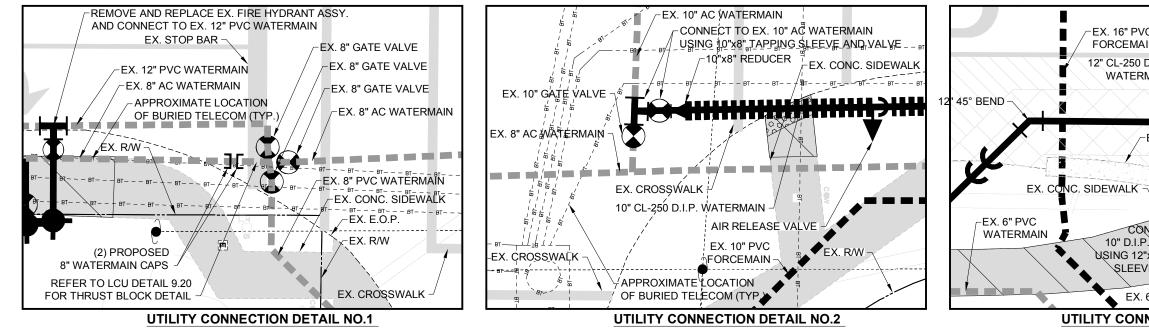


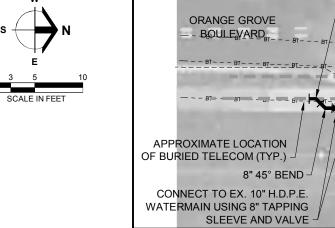






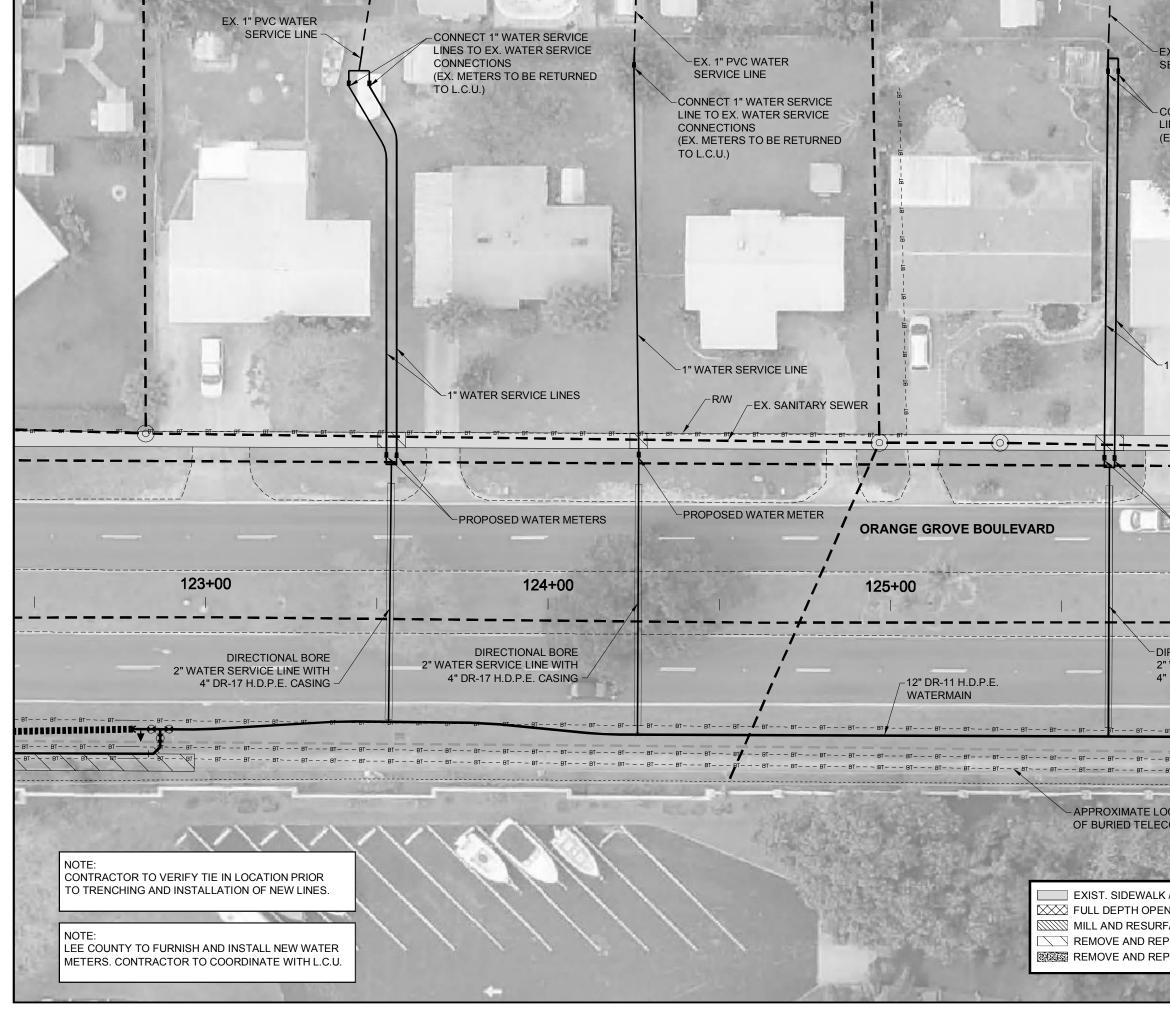




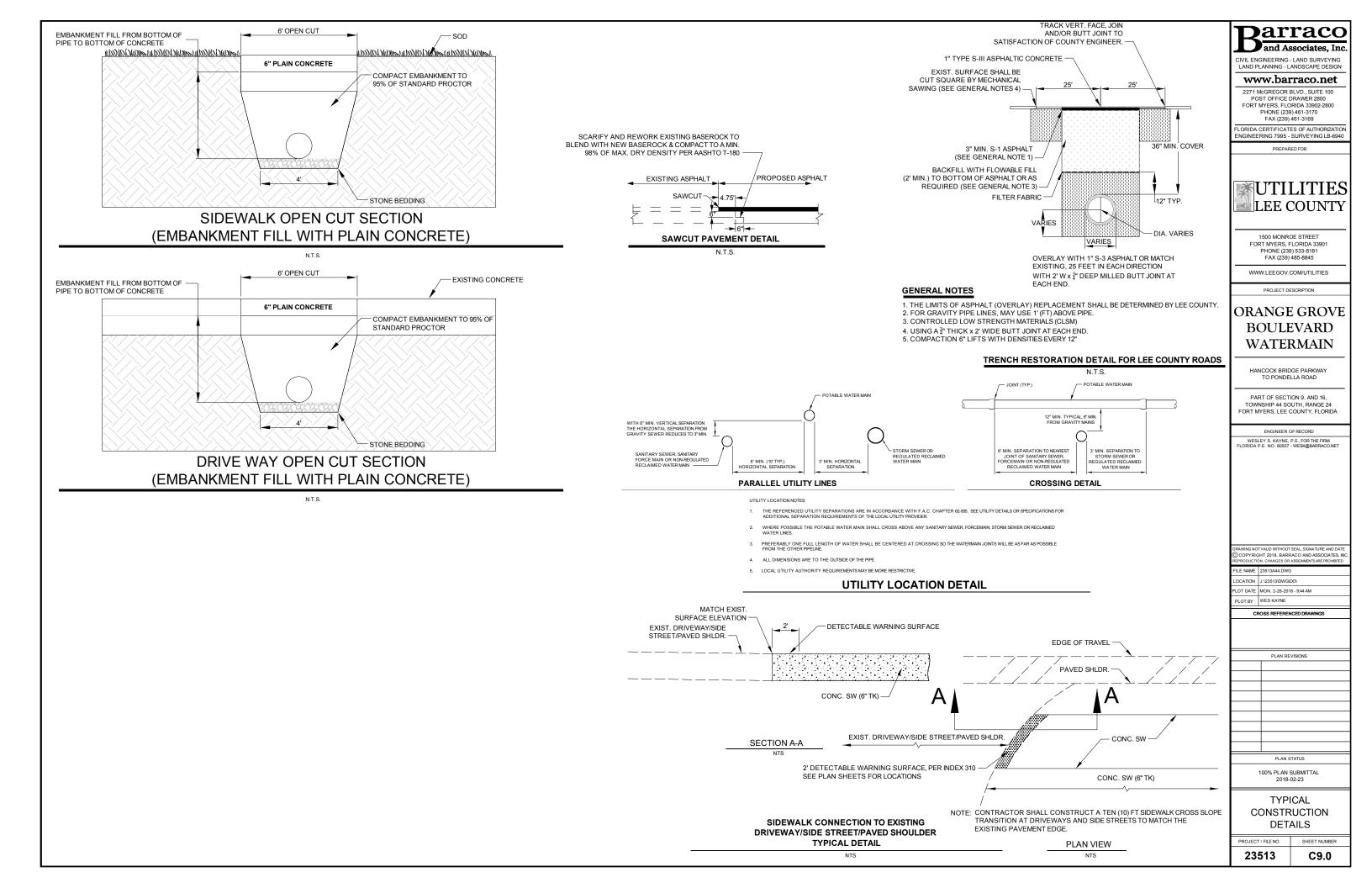


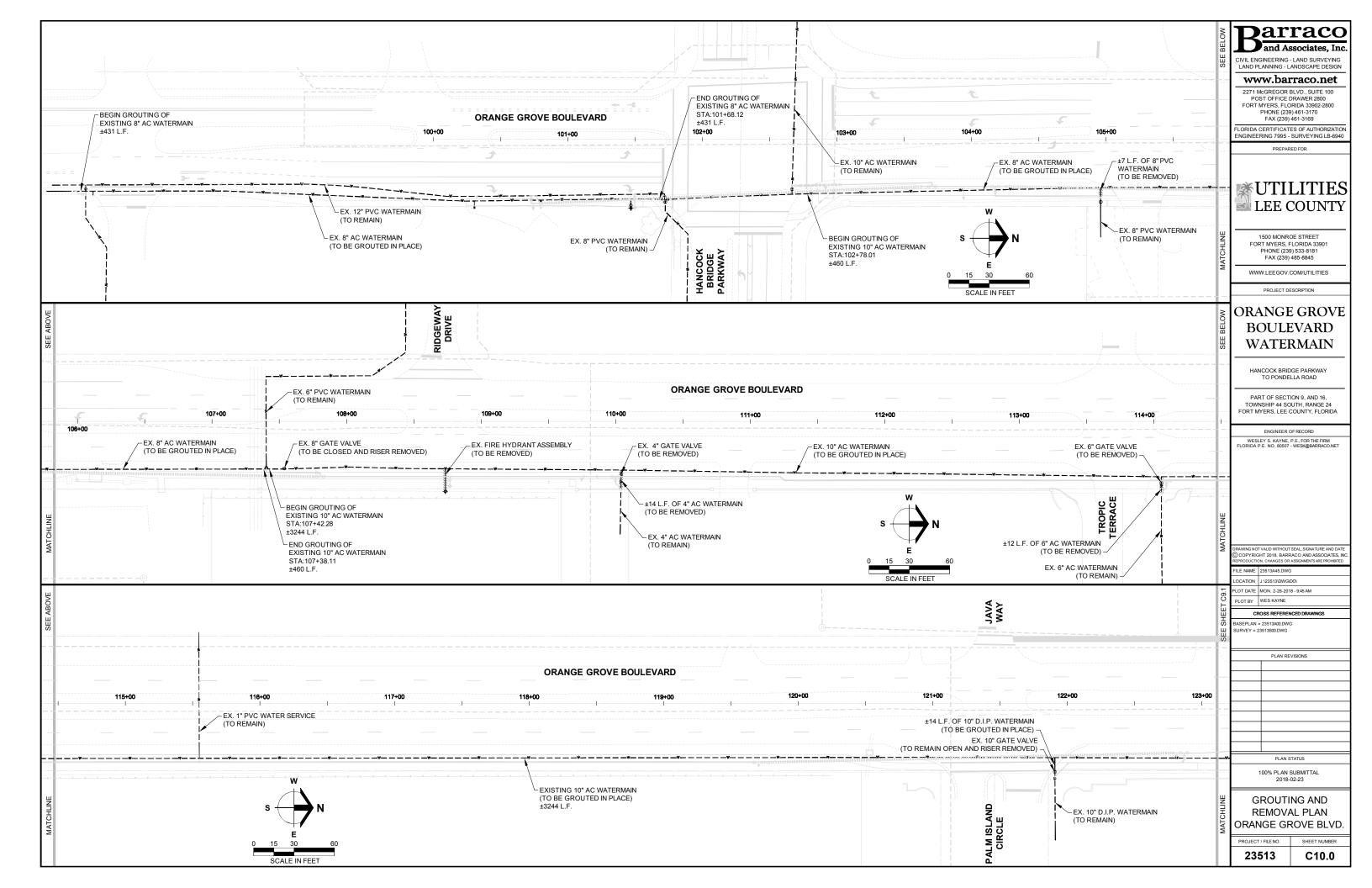
UTILITY CONNECT

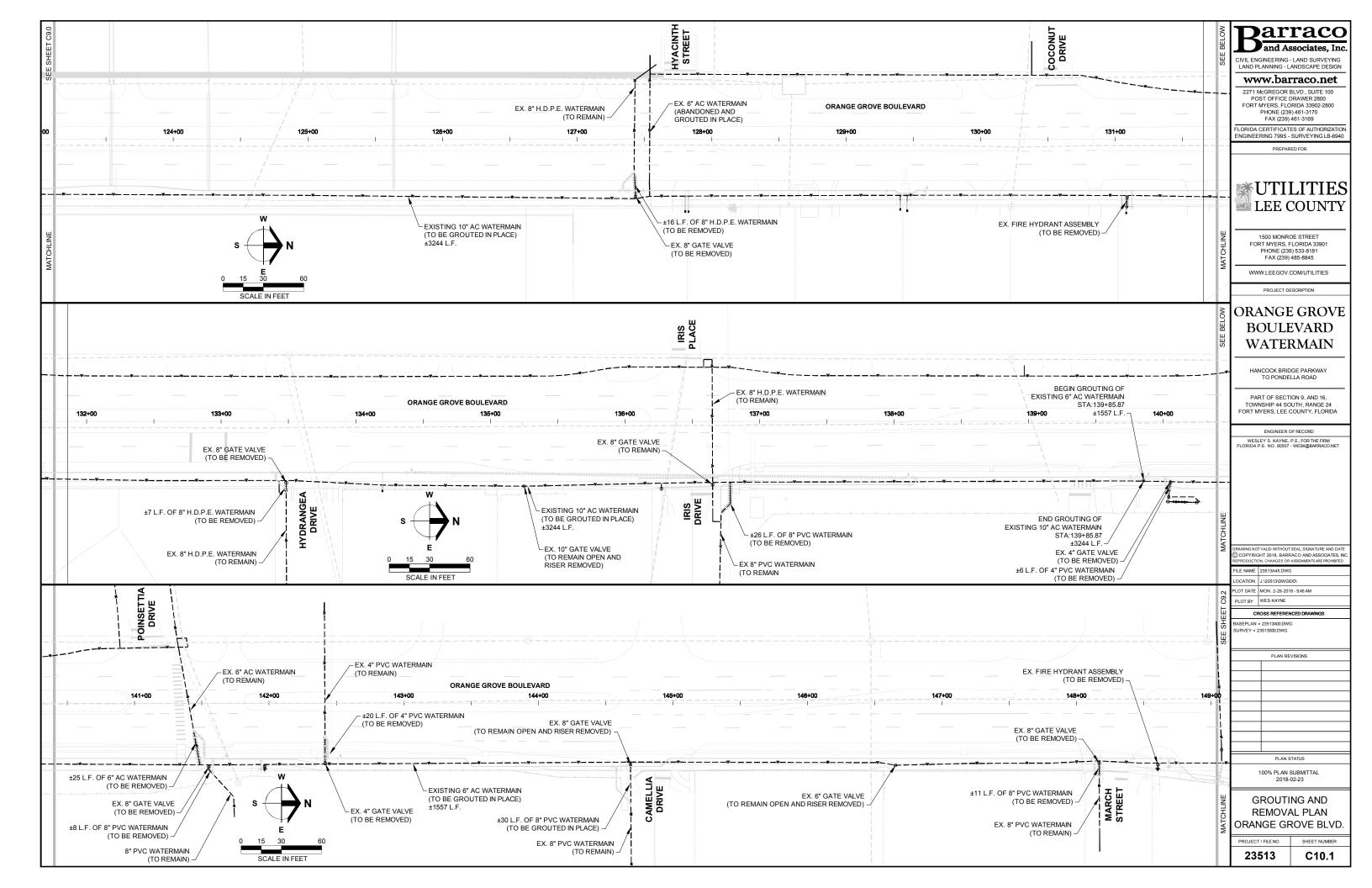
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. 6" GATE VALVE -	ww	N.LEEGOV.	COM/UTILITIES
		PROJECT DE	SCRIPTION
	BC	JULE	E GROVE EVARD RMAIN
	HAN	ICOCK BRID TO PONDE	DGE PARKWAY LLA ROAD
	TOWN	SHIP 44 SO	ION 9, AND 16, DUTH, RANGE 24 COUNTY, FLORIDA
		ENGINEER C	
			P.EFOR THE FIRM - WESK@BARRACO.NET
	C COPYRIGI	HT 2018, BARR	RACO AND ASSOCIATES, INC. ASSIGNMENTS ARE PROHIBITED
		23513A40.DWG	
		J:\23513\DWG\E MON. 2-26-201	
	120101	WES KAYNE	
		23513A00.DWG	ICED DRAWINGS
┌─ CONNECT TO EX. 8" AC	SURVEY = 2	9513S00.DWG PLAN RE	VISIONS
WATERMAIN WITH 8" 45° BEND			
л/ - / ЕХ. 12" РУС WATERMAIN / / ЕХ. 12" x 10" ТЕЕ - втвтвтвт			
BIBIBIBI			
(TO BE GROUTED TO 101+68)	1	PLAN S	SUBMITTAL
EX.R/W BOILD BURN		DET	ECTION AILS
ION DETAIL GOLF CLUB DRIVE	PROJECT		C8.0

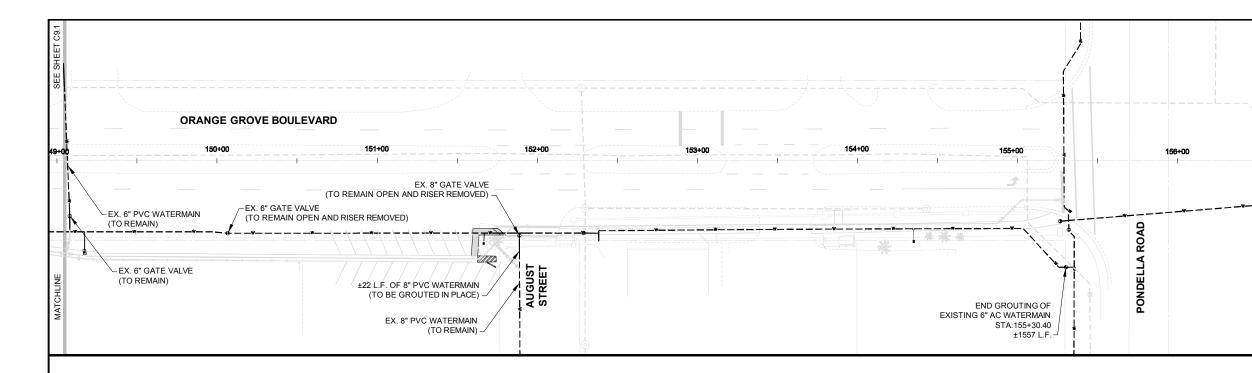


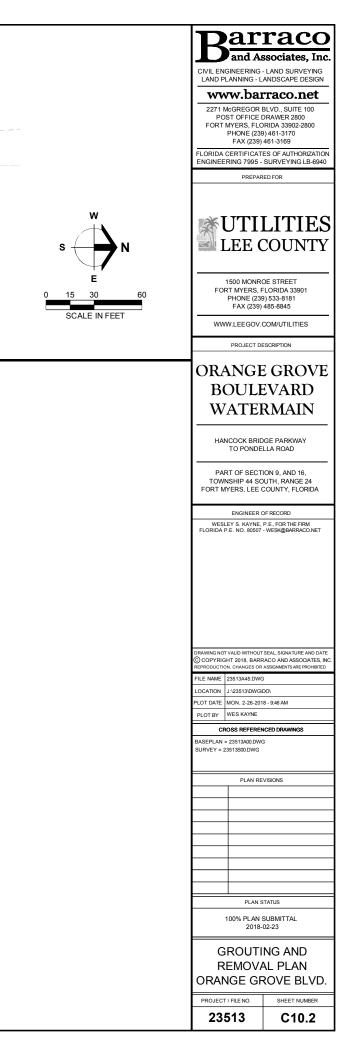
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A STATISTICS A		ssociates, Inc.
EX. 1" PVC WATER	CIVIL ENGINEERING	
SERVICE LINE	www.bai	
	2271 McGREGOR POST OFFICE	DRAWER 2800
CONNECT 1" WATER SERVICE	FORT MYERS, FLO PHONE (239	9) 461-3170
LINES TO EX. WATER SERVICE CONNECTIONS	FAX (239)	ES OF AUTHORIZATION
(EX. METERS TO BE RETURNED TO L.C.U.)	ENGINEERING 7995 -	
	PREPAR	EDFOR
W		
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s N		COUNTY
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SCALE IN FEET	FORT MYERS, F PHONE (239	9) 533-8181
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-1" WATER SERVICE LINES	BOULE	
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	ENGINEER	OF RECORD
	WESLEY S. KAYNE, FLORIDA P.E. NO. 80507	P.E., FOR THE FIRM
		-
PROPOSED WATER METERS		
	_	
126+00		
	DRAWING NOT VALID WITHOUT	
	- REPRODUCTION, CHANGES OR	ASSIGNMENTS ARE PROHIBITED
DIRECTIONAL BORE 2" WATER SERVICE LINE WITH	FILE NAME 23513A40.DWG	
4" DR-17 H.D.P.E. CASING	PLOT DATE MON. 2-26-201	8 - 9:44 AM
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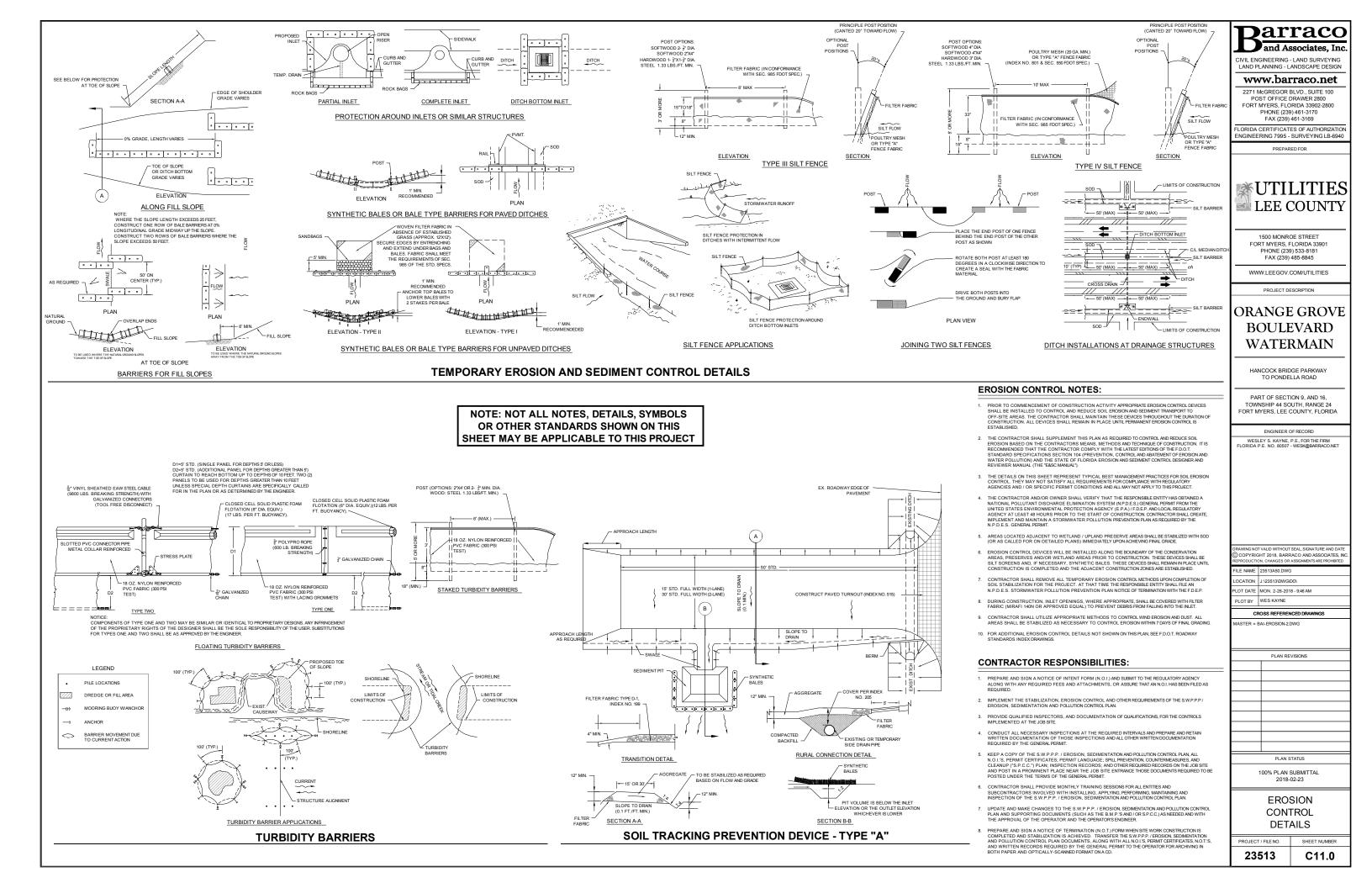


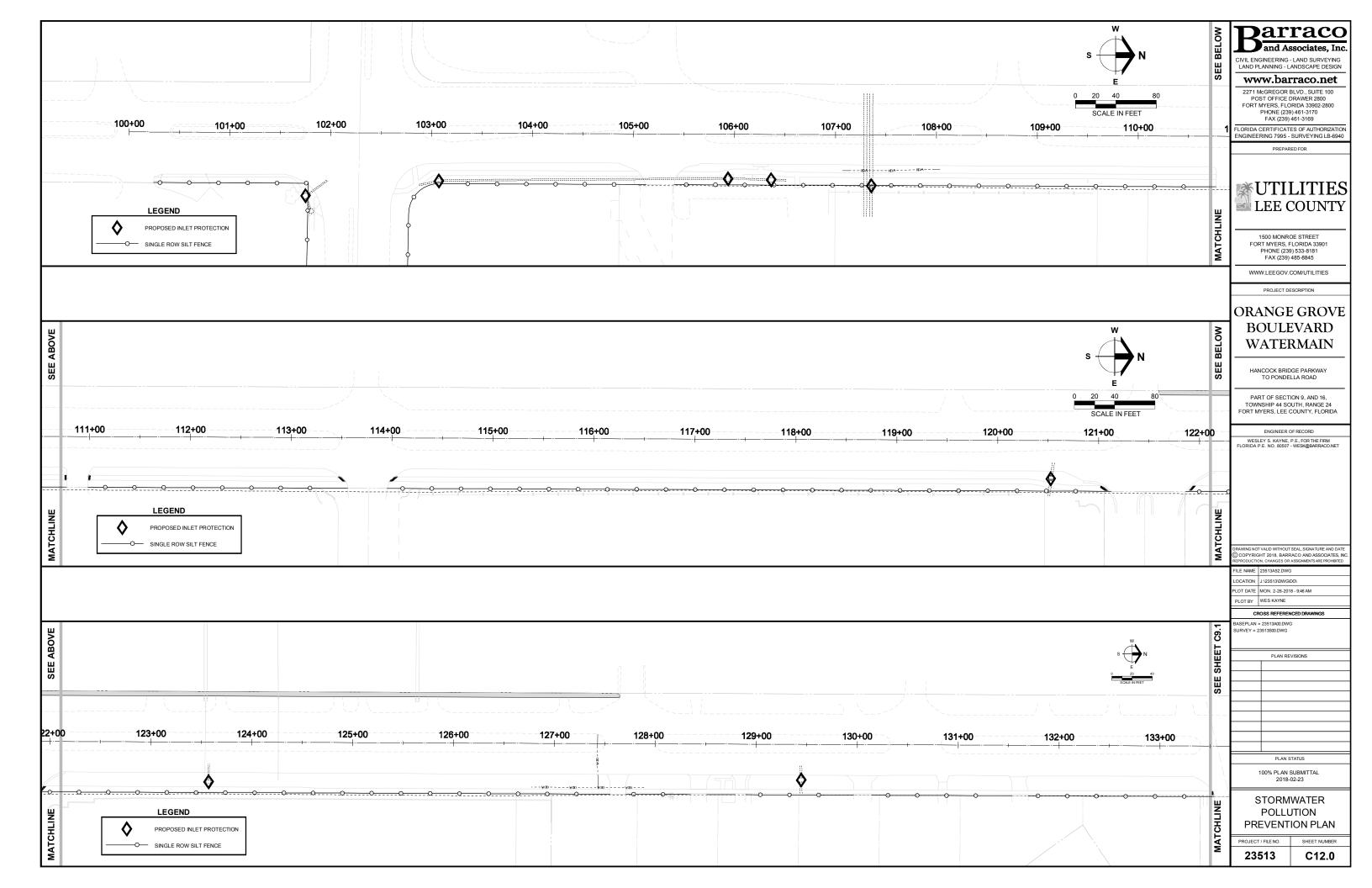


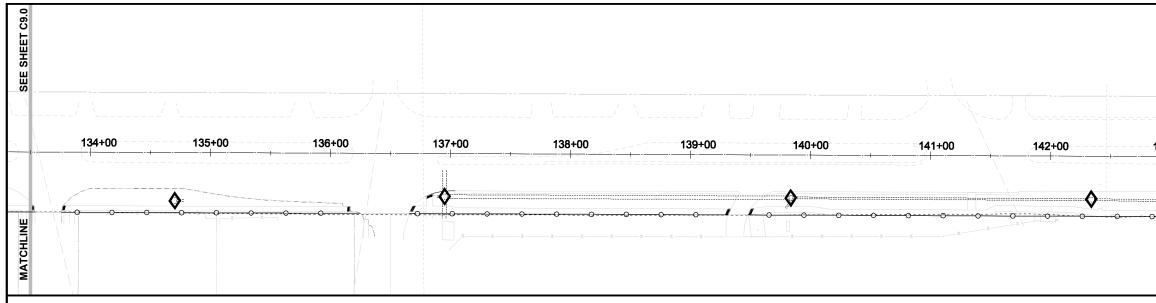


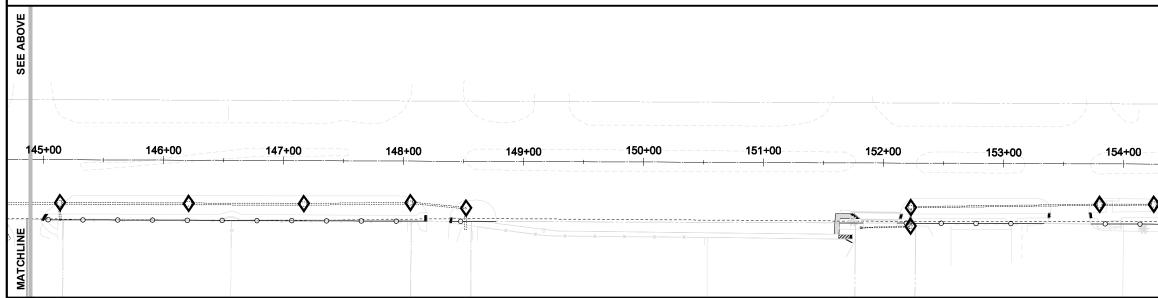


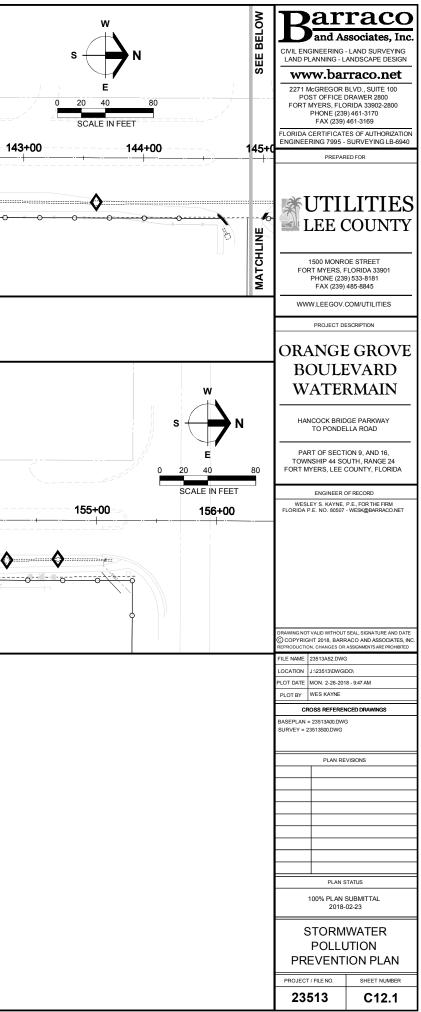


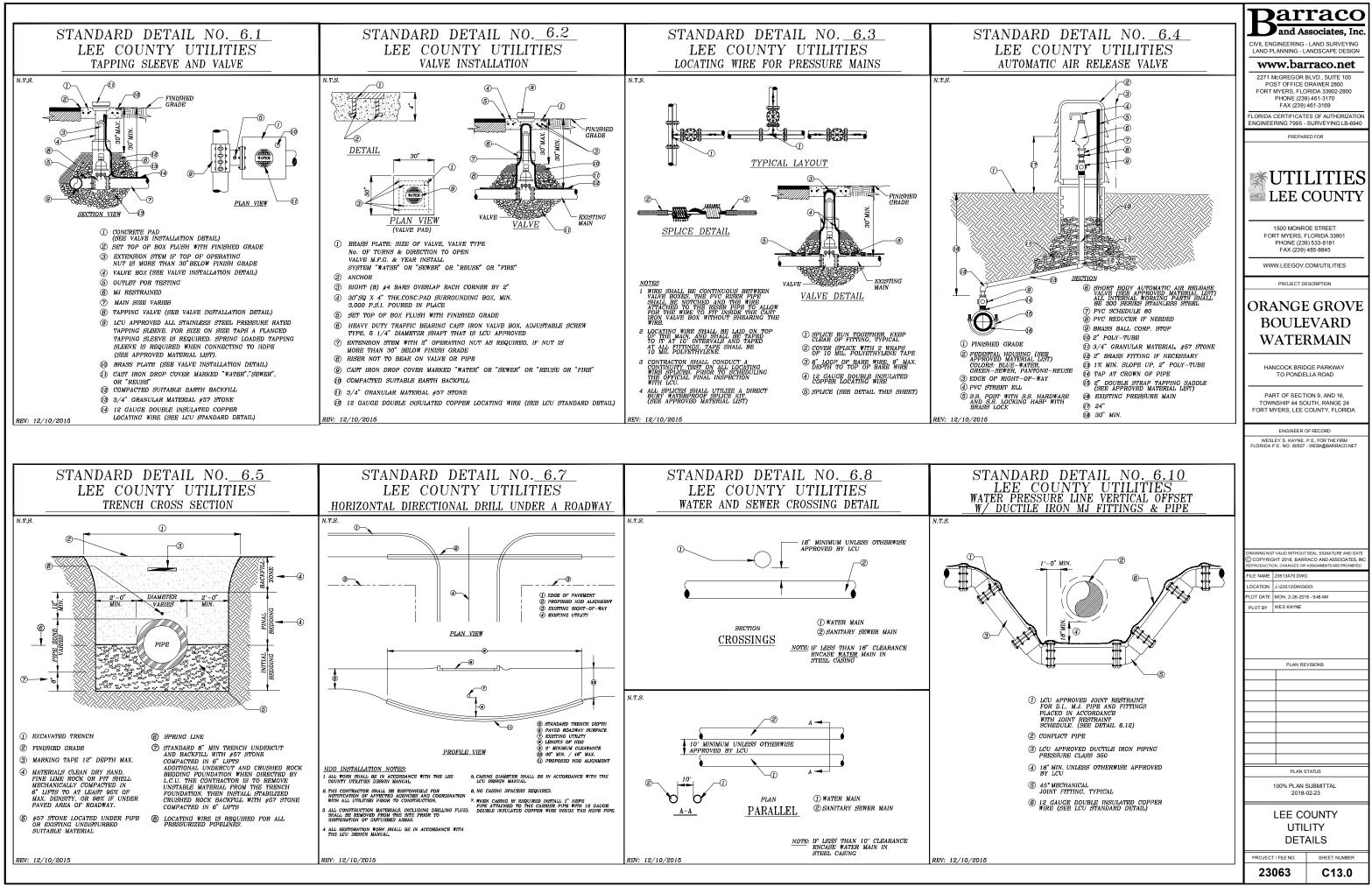


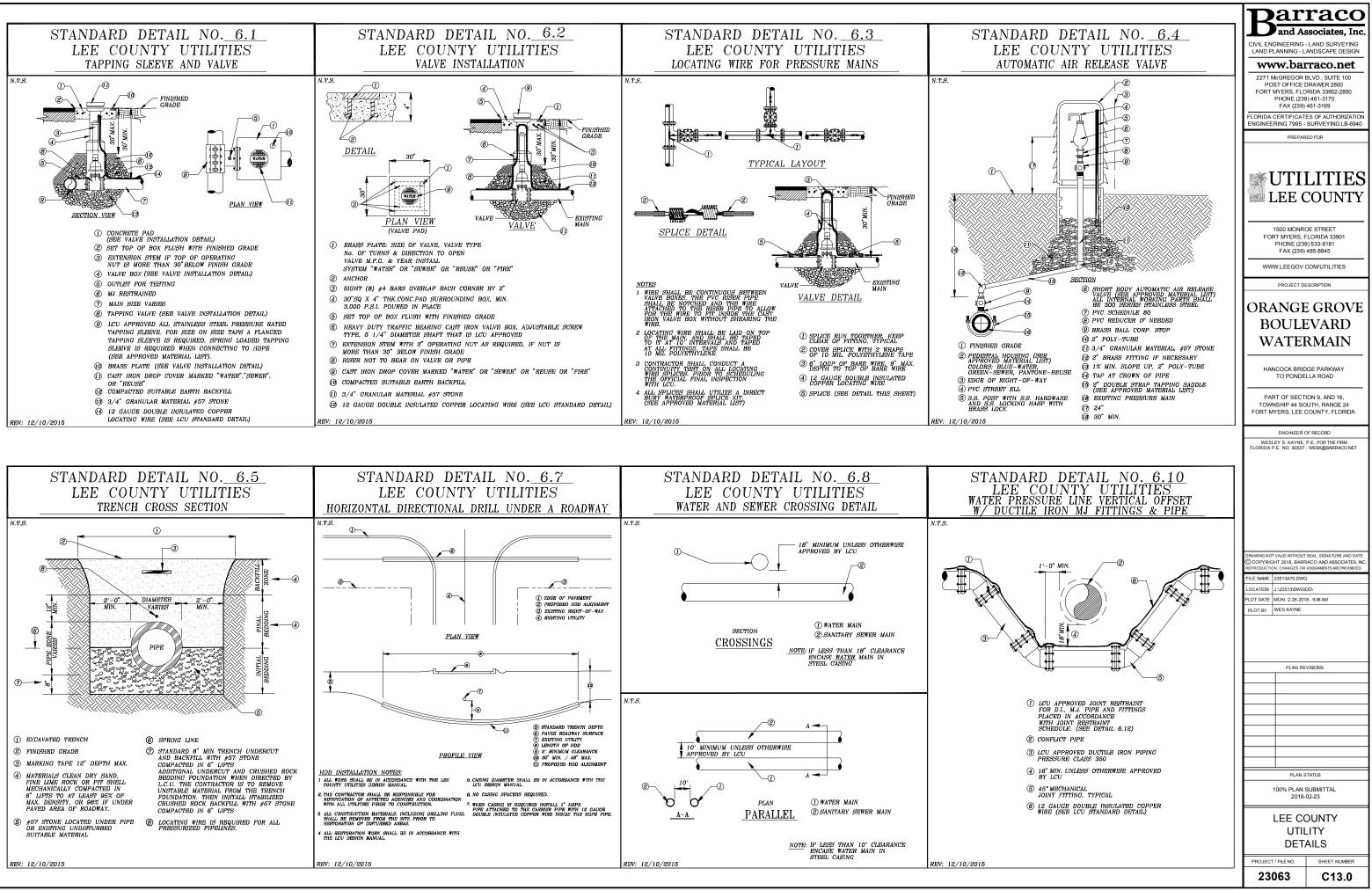


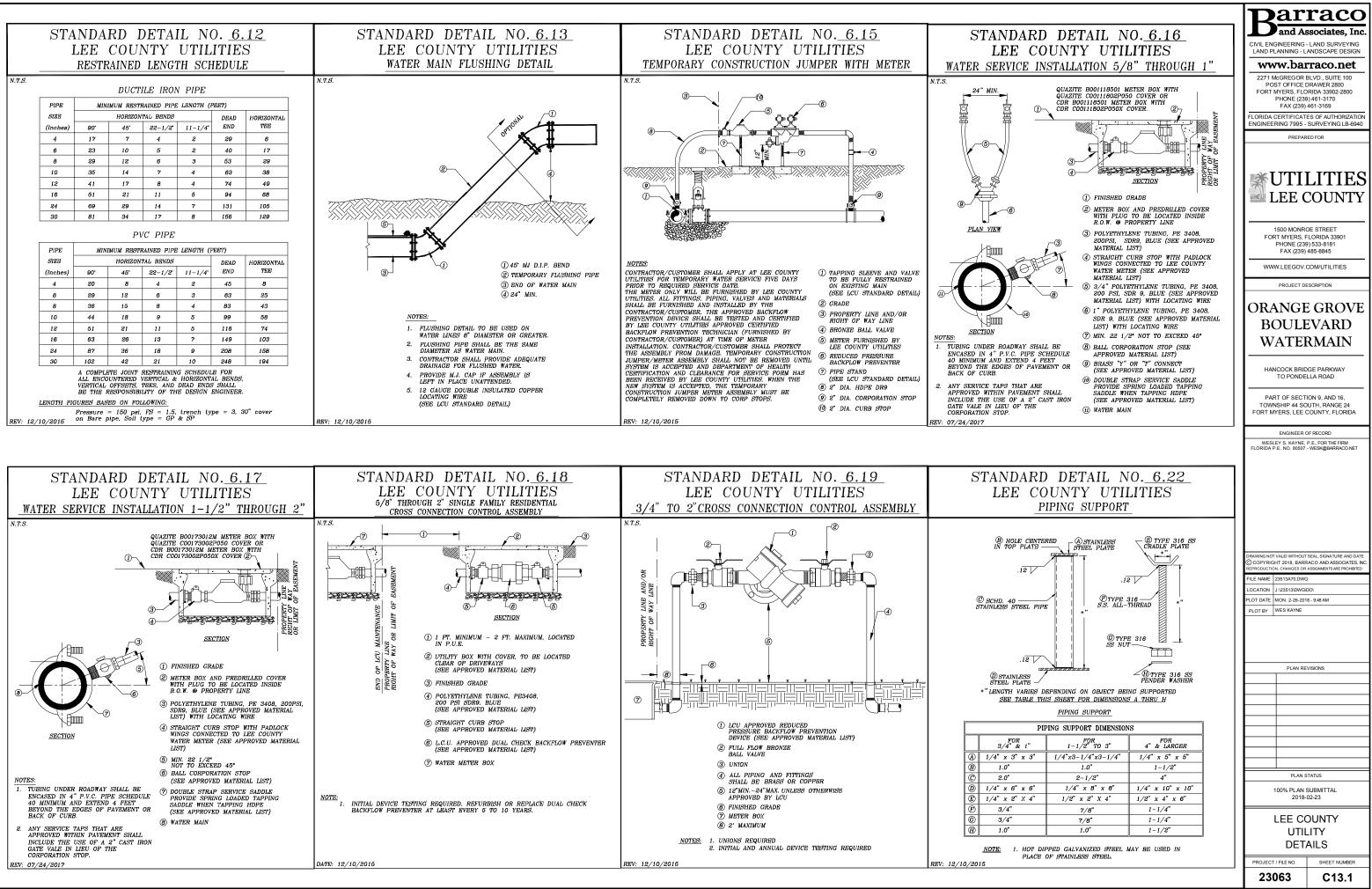


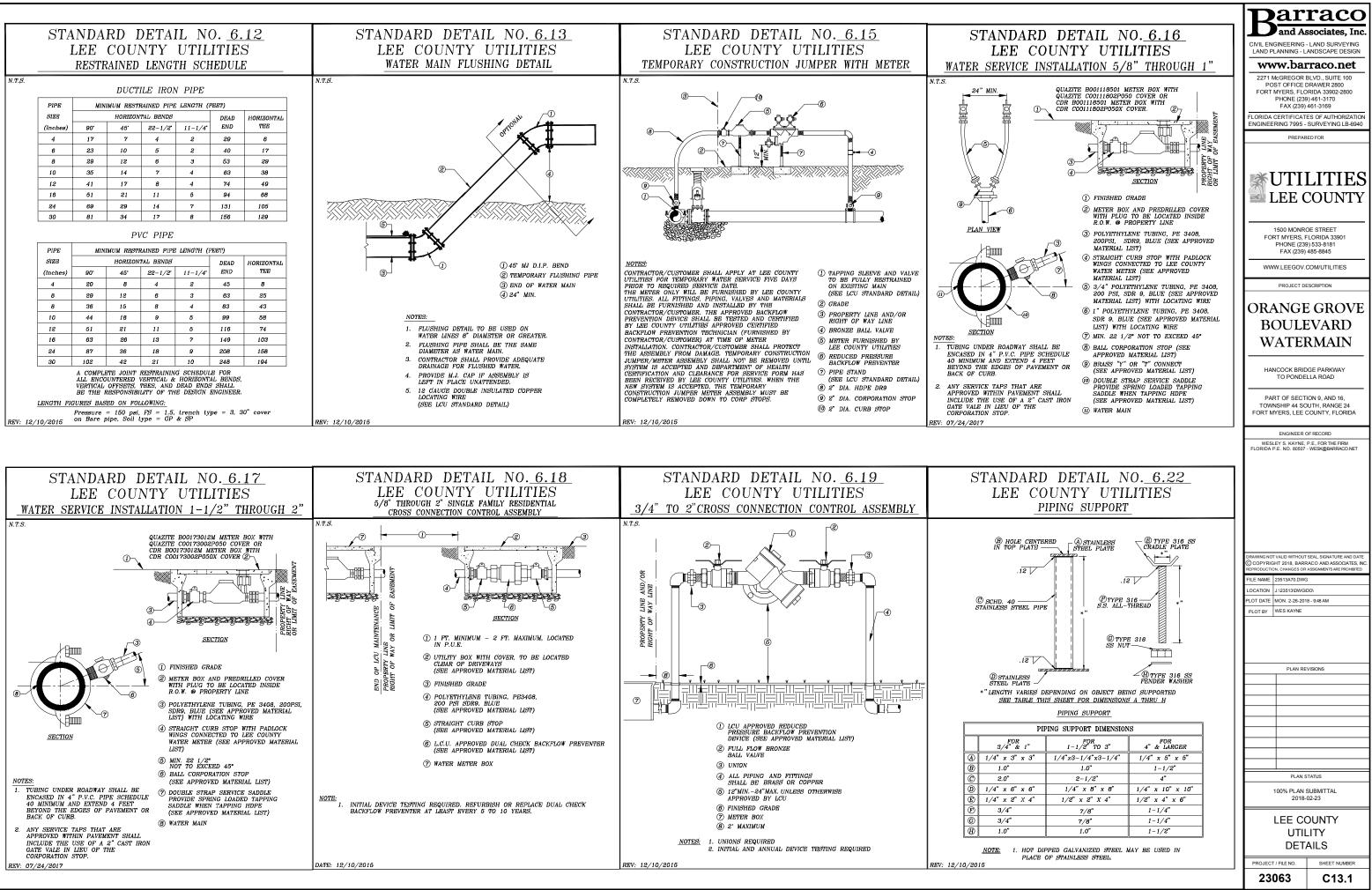


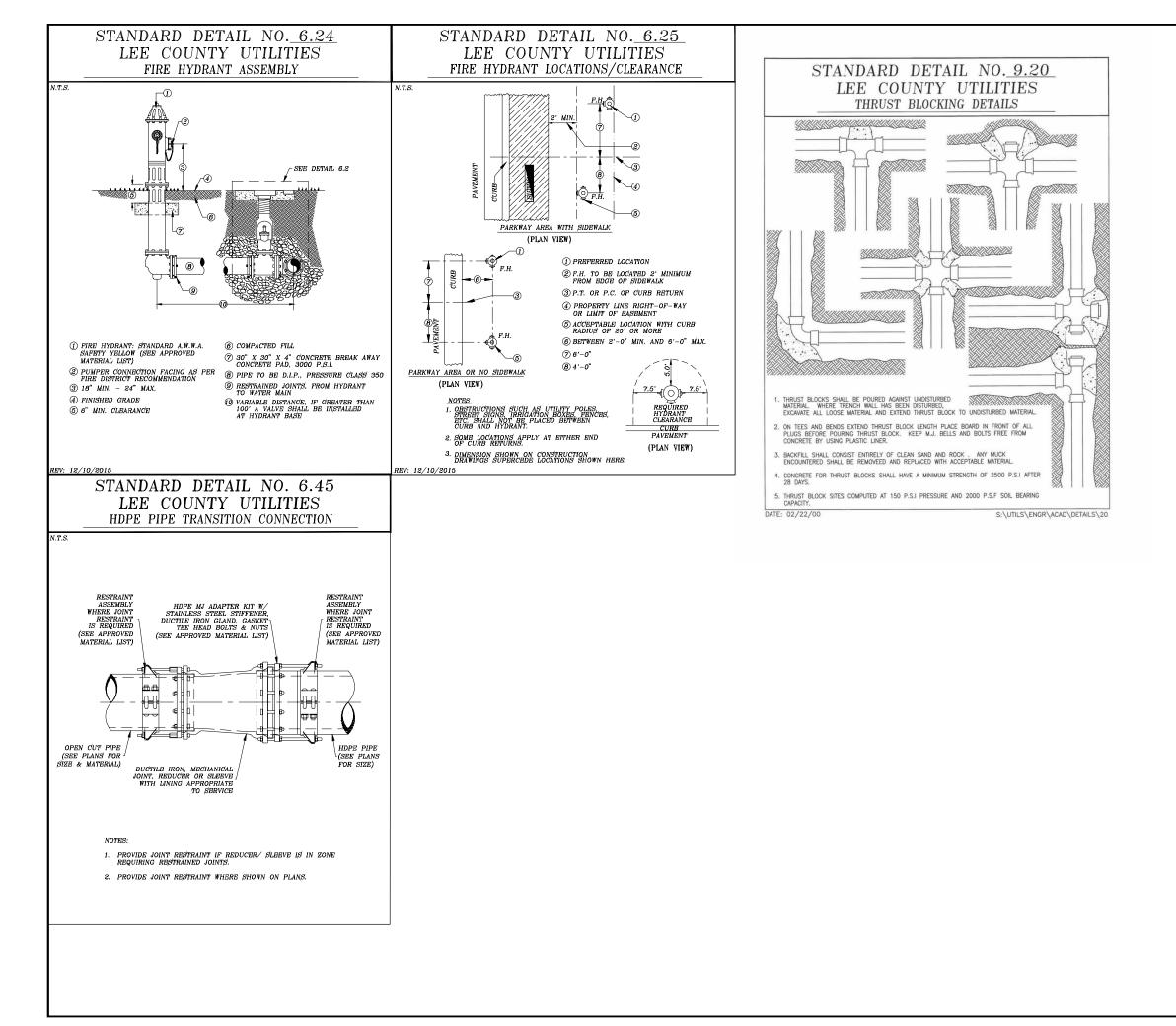












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and Associates, Inc.		
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FAX (239) 461-3169		
FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940		
PREPARED FOR		
UTILITIES		
LEE COUNTY		
1500 MONROE STREET FORT MYERS, FLORIDA 33901		
PHONE (239) 533-8181 FAX (239) 485-8845		
FAX (239) 463-6645		
WWW.LEEGOV.COM/UTILITIES		
PROJECT DESCRIPTION		
ORANGE GROVE		
BOULEVARD		
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WATERMAIN		
на		
HANCOCK BRIDGE PARKWAY TO PONDELLA ROAD		
		ION 9, AND 16, UTH, RANGE 24
		COUNTY, FLORIDA
ENGINEER OF RECORD		
WESLEY S. KAYNE, P.E., FOR THE FIRM FLORIDA P.E. NO. 80507 - WESK@BARRACO.NET		
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		ASSIGNMENTS ARE PROHIBITED
FILE NAME	23513A70.DWG	
LOCATION PLOT DATE	J:\23513\DWG\ MON. 2-26-201	
PLOT BY WES KAYNE		
	PLAN RE	VISIONS
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PLAN STATUS		
100% PLAN SUBMITTAL		
2018-02-23		
LEE COUNTY		
UTILITY		
DETAILS		
PROJECT / FILE NO. SHEET NUMBER		
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