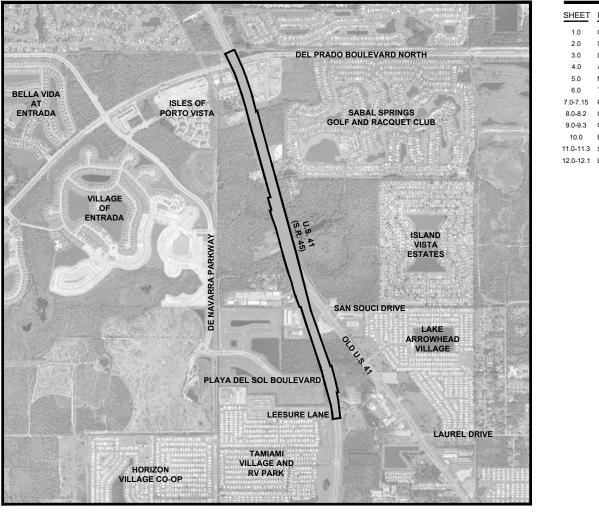
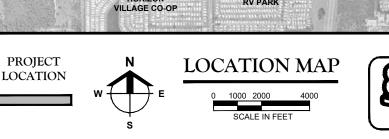
# WATERMAIN CONSTRUCTION PLANS

# FOR

# NORTH U.S. 41 16-INCH WATER MAIN (LITTLETON ROAD TO DEL PRADO BOULEVARD) **BID PLANS**

# PART OF SECTION 22 & 27. TOWNSHIP 43 SOUTH. RANGE 24 EAST FORT MYERS, LEE COUNTY, FLORIDA





NGINEER OF RECORDS SIGNATURE AND SEA				
EET	DESCRIPTION			
.0	COVER SHEET AND LOCATION MA			
.0	STANDARD NOTES			
.0	L.C.U. NOTES			
.0	AERIAL PHOTOGRAPH AND EXIST			
.0	MASTER UTILITY PLAN, KEY SHEE			
.0	TYPICAL SECTIONS AND DETAILS			
7.15	PLAN AND PROFILE - U.S. 41 (S.R.			
-8.2	CROSS SECTIONS			
-9.3	GROUTING AND REMOVAL PLAN			

- EROSION CONTROL PLAN
- 11.0-11.3 STORMWATER POLLUTION PREVENTION PLAN
- 12.0-12.1 LEE COUNTY UTILITY DETAILS

KNOW WHAT'S BELOW

ALWAYS CALL 811 BEFORE YOU DIG

LEE COUNTY COMMISSIONERS DISTRICT 1. KEVIN RUANE DISTRICT 2. CECIL PENDERGRASS DISTRICT 3. RAY SANDELLI DISTRICT 4. BRIAN HAMMAN DISTRICT 5. MIKE GREENWELL COUNTY MANAGER ROGER DESJARI AIS DIRECTOR OF UTILITIES PAMELA KEYES, P.E. PERMIT REQUIREMENTS AGENCY STATUS NOTES LEE COUNTY DEVELOPMENT ORDER APPROVED LDO2022-00336 ELORIDA DEPARTMENT OF HEALTH 0103717-127 DSC FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION APPROVED 0420790-003 SFG F.D.O.T. UTILITY CONNECTION PERMIT APPROVED 200-H-192-00135 F.D.E.P. NOTICE OF INTENT PENDING NOTE: CONTRACTOR MUST OBTAIN AND KEEP ON FILE & COPY OF ALL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY **DESIGN TEAM** 

PROJECT ENGINEER	PROJECT MANAGEMENT
WESLEY S. KAYNE, P.E.	DOUG TARN
DESIGN ENGINEER	PROJECT SURVEYOR
WESLEY S. KAYNE, P.E.	SCOTT A. WHEELER, P.S.M.
LEAD DESIGN TECHNICIAN	SITE PLANNING
JAN BILDZUKEWICZ	N/A
DESIGN STAFF	LAND PLANNING
JAN BILDZUKEWICZ	N/A
QUALITY CONTROL	RECORD DRAWINGS
DOUG TARN	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**

APPLY TO THE FOLLOWING PLAN SHEETS, EXCLUDING ANY SUPPLEMENTS

TING CONDITIONS PLAN ET, AND NOTES

23994401 DWG 23994A02.DWG 23994A03.DWG 23994A06.DWG 23994A12.DWG 23994A18.DWG 23994A30 DWG 23994A32.DWG 23994A35.DWG 23994A50.DWG 23994A52.DWG 23994A70.DWG

DRAWING NAME

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CIVIL EN	and Associates, Inc. GINEERING - LAND SURVEYING LAND PLANNING					
www.barraco.net						
2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS, FLORIDA 33902-2800 PHONE (239) 461-3170						
FLORIDA C	FAX (239) 461-3169 CERTIFICATES OF AUTHORIZATION RING 7995 - SURVEYING LB-6940					
ENGINEE	PREPARED FOR					
×	JTILITIES EE COUNTY					
FOF	1500 MONROE STREET 17 MYERS, FLORIDA 33901 PHONE (239) 533-8181 FAX (239) 485-8845					
ww	W.LEEGOV.COM/UTILITIES					
	PROJECT DESCRIPTION					
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16-IN(	CH WATER MAIN					
D	LITTLETON ROAD TO EL PRADO BOULEVARD					
	RT OF SECTION 22 & 27, TOWNSHIP 43 SOUTH, RANGE 24 EAST					
FORT M	YERS, LEE COUNTY, FLORIDA ENGINEER OF RECORD					
WESL FLORIDA P	EY S. KAYNE, P.E., FOR THE FIRM .E. NO. 80507 - WESK@BARRACO.NET					
Wesley S. Kayr Printed copies	of this document are not considered signed					
copies. DRAWING NOT	d signature must be verified on any electronic VALID WITHOUT SEAL, SIGNATURE AND DATE IT 2023, BARRACO AND ASSOCIATES, INC.					
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CR	OSS REFERENCED DRAWINGS					
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	PLAN REVISIONS					
	PLAN STATUS					
	BID PLANS 2023-03-09					
C	COVER SHEET					
AND LOCATION MAP						
PROJECT	/ FILE NO. SHEET NUMBER					

PLAN STATUS

**BID PLANS** 2023-03-09

23994

1.0

# 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 F.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.
- ALL APPROVALS REQUIRED IN CONJUNCTION WITH THESE NOTES MUST BE OBTAINED IN WRITING BY THE CONTRACTOR. ANY DEVIATIONS FROM THE PLANS AND / OR SPECIFICATIONS MUST BE APPROVED IN ADVANCE BY THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCY.
- 3. CONTRACTOR SHALL ENSURE THAT ALL PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION, THAT COPIES OF ALL PERMITS ARE RETAINED ON SITE AT ALL TIMES AND SHALL ADHERE TO ALL PERMIT CONDITIONS. AT LEAST 72 HOURS PRIOR TO CONSTRUCTION CONTRACTOR SHALL NOTIFY THE LOCAL MAINTENANCE ENGINEER'S OFFICE TO SECURE GENERAL USE PERMITS AND / OR OTHER PERMITS REQUIRED FOR WORK WITHIN F.D.O.T. AND LEE COUNTY RIGHT-OF-WAY AND EASEMENTS.
- ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSIONS OF THE AMERICANS WITH 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. STANDARD PLAN INDEX 522-002 AND SHALL INCLUDE DETECTABLE WARNING SURFACES. VALLEY GUTTER ADJACENT TO CURB 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 BY THE RESPECTIVE PERMIT.
- 7. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY 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.
- 8. 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.
- 10. 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.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH D.O.T. ADMIN CODE AC-11-12 AND 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.
- 12. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE.
- 13. THE LOCATIONS OF PROPOSED UTILITY LINES MAY BE FIELD ADJUSTED AS NECESSARY 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.
- 14. INSTALLATION OF SUBSURFACE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WATER, SEWER AND IRRIGATION LINES, PUBLIC UTILITIES AND STORM DRAINAGE IS REQUIRED PRIOR TO COMPACTION OF THE ROADWAY SUBGRADE.
- 15. SUBGRADE AND LIMEROCK BASE COURSES 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.
- 16. SWALE ELEVATIONS SHOWN ARE TO TOP OF SOD. IF DISTURBED DURING CONSTRUCTION CONTRACTOR TO ADJUST SWALE GRADING THE THE FLOW LINE 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.
- 17. CASING AND/OR CONDUIT SHALL HAVE A MINIMUM OF 36" 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.

- 18. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE. ADA VALVE BOX LIDS ARE TO BE USED IN ADA SIDEWALK PEDESTRIAN AREAS.
- 19. 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.
- 20. 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.
- 21. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS 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.
- 22. ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH LEE COUNTY UTILITIES DESIGN STANDARDS AND TECHNICAL SPECIFICATIONS LATEST EDITION, 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.
- 23. 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.
- 24. SEPARATE PERMITS MAY BE REQUIRED FOR ANY DEDICATED FIRE LINE. UNDERGROUND FIRE LINES MUST MEET REQUIREMENT OF NFPA 24.
- 25. THE CONTRACTOR SHALL RESTORE ALL PAVING ETC. TO MATCH ORIGINAL CONDITION. NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS UNLESS SPECIFICALLY INCLUDED IN THE BID TABULATION OR OUTLINED IN THE SPECIFICATIONS.
- 26. 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.
- 27. LIMITS OF CONSTRUCTION SHALL BE CONFINED TO THE EXISTING RIGHTS-OF-WAYS AND EASEMENTS SHOWN ON THE PLANS.
- 28. CONTRACTOR SHALL RECONSTRUCT ALL DRAINAGE DITCHES AND SWALES DISTURBED BY CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL GRADE AND LOCATION.
- 29. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN AMPLE MEANS AND EQUIPMENT 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.
- 30. CONTRACTOR SHALL PROTECT OR REMOVE AND REINSTALL ALL SIGNS AND MAIL BOXES WITHIN THE RIGHT-OF-WAY OR EASEMENT LIMITS.
- 31. CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM ADVANCE NOTICE OF ALL UTILITY SHUT DOWNS AND TIE-INS TO THE ENGINEER, THE PUBLIC INVOLVEMENT CONSULTANT (IF APPLICABLE) AND THE UTILITY COMPANY.
- 32. 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.
- 33. IN THE EVENT OF UNSCHEDULED WATERMAIN SHUT DOWNS (BREAKS) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE PUBLIC INVOLVEMENT CONSULTANT 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.
- 34. CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO EXISTING BUSINESSES 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.
- 35. THESE PLANS HAVE BEEN PREPARED SUCH THAT ALL WATERMAIN TO BE PLACED OUT OF SERVICE SHALL BE REMOVED OR GROUTED IN PLACE. WHERE POSSIBLE, CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO REMOVE EXISTING MAINS WHERE FEASIBLE WITHOUT IMPACTING EXISTING SIDEWALK, LANDSCAPING, PAVEMENT, AND OTHER PUBLIC FACILITIES.
- 36. ALL DRIVEWAYS AND ROADWAY OPEN CUTS WITHIN F.D.O.T. RIGHT-OF-WAY SHALL CONFORM TO THE UTILITIES ACCOMMODATIONS MANUAL. SECTION 4.1.8.2 AS FOLLOWS:
  - 1. NOTIFY USERS SEVEN (7) DAYS IN ADVANCE USING DOOR-HANGER TYPE NOTICES OR ON-SITE SIGNS AS APPROPRIATE AND APPROVED BY F.D.O.T.
  - 2. MAINTAIN USERS' ACCESS TO THE PROPERTY.
  - 3. RESTORE THE DRIVEWAYS TO AT LEAST AN EQUIVALENT CONDITION AND TYPES OF MATERIAL TO WHAT EXISTED PRIOR TO CUTTING. RESTORE FULL SECTIONS JOINT TO JOINT.

### MAINTENANCE OF TRAFFIC:

THESE NOTES ARE FOR WORK IN LEE COUNT RIGHT-OF-WAYS ONLY. FOR WORK WITHIN F.E

- MAINTENANCE OF TRAFFIC (M.O.T.) PLA CONTRACTOR FOR VEHICULAR AND PEI SUBMITTED AND APPROVED BY THE L.C MOBILIZATION. M.O.T. PLANS SHALL INC LANE CLOSURES, PEDESTRIAN ACCESS
- ACCESS FOR LOCAL TRAFFIC WITH DES MAINTAINED. IF DURING CONSTRUCTIO CONTRACTOR SHALL NOTIFY THE L.C.D ADVANCE. IF DURING CONSTRUCTION F BY LEE COUNTY, THE CONTRACTOR SH. WORKING DAYS IN ADVANCE.
- PRIOR TO COMMENCING WORK, THE CO ALL BARRICADES, WARNING SIGNS, ANI TRAFFIC, IN REASONABLE CONFORMITY TRANSPORTATION MANUAL OF UNIFOR HIGHWAYS, OR AS DIRECTED BY THE L. ACCIDENTS IN ALL PLACES WHERE THE TRAFFIC PATTERN OR CONSTITUTES IN
- THE CONTRACTOR SHALL COORDINATE WITHIN LEE COUNTY RIGHT-OF-WAYS W THE REQUIRED CLOSINGS.

#### SIGNING AND PAVEMENT MARKING NO

- ALL SIGNING AND PAVEMENT MARKINGS SH THE F.D.O.T. STANDARDS FOR ROAD AND B INDEX, THE MANUAL ON UNIFORM TRAFFIC STANDARDS. UTILIZATION OF THE 2009 M.U
- 2. DURING CONSTRUCTION, THE CONTRACTO "STATE OF FLORIDA MANUAL OF TRAFFIC OF CONSTRUCTION, MAINTENANCE, AND UTIL TRAFFIC CONTROL DEVICES" AND WITH AL
- PAVEMENT MARKINGS SHALL BE PERMAN ACCORDANCE WITH F.D.O.T. STANDARD S PERMANENT PAVEMENT MARKINGS WITHI NOTED OTHERWISE.
- 4. MATCH EXISTING PAVEMENT MARKINGS A THAT ARE IN CONFLICT WITH PROPOSED M EXISTING SIGNS SHALL REMAIN UNLESS N
- 5. ALL STOP SIGN LOCATIONS SHALL INCLUD ROADS WITH PAVER BRICK SURFACES MA
- 6. THE CONTRACTOR SHALL FURNISH AND II DEVELOPMENT STANDARDS. IF POSSIBLE
- 7. THE CONTRACTOR SHALL PROVIDE AND II THE CENTER OF THE TRAFFIC LANE NEAR
- ALL ROADWAY SIGNING AND PAVEMENT M IDENTIFICATION SIGNING) ARE TO BE INCLI UNLESS A DETAILED BID QUANTITY BREAK
- ANY EXISTING SIGN TO REMAIN THAT IS R RESET TO CURRENT F.D.O.T. STANDARD I OF INSTALLATION. ANY SIGNS DAMAGED E THE CONTRACTOR.
- 10. ALL SIGNS THAT ARE EMBEDDED IN CONC APPROVED PIPE SLEEVE.

# QUANTITIES AND PAYMENT:

2.

- CONTRACTOR SHALL REFER TO THE PRO THE BID TABULATION AND PROJECT TEC METHOD OF PAYMENT FOR SPECIFIC PAY
- DIRECTIONAL BORE CASING AND CARRIE PLANS AND BID TABULATION. NO ADDITIO MEANS AND METHODS, EQUIPMENT CAP, CONTRACTOR SHALL ANALYZE THE DIRE UPON SITE CONDITIONS, MEANS AND ME ROCK. NO ADDITIONAL PAYMENTS SHALL LENGTHS.

NOTE: EXISTING UTILITIES DEPICTED A ENGINEERING SERVICES QL-B A & SURVEYING, INC. DATED 2022:

		B		raco
TY DEPARTMENT OF TRANSPORTATION (LCDOT)			GINEERING LAND PL	- LAND SURVEYING ANNING
D.O.T. RIGHT-OF-WAYS REFER TO F.D.O.T. PERMIT. ANS ARE REQUIRED TO BE SUBMITTED BY THE EDESTRIAN TRAFFIC. THIS PLAN SHOULD BE C.D.O.T. AT LEAST 14 DAYS PRIOR TO CLUDE, BUT NOT LIMITED TO, DETAILS OF ALLOWED S CLOSURES. AND HOURS OF OPERATION		2271 M PO: FORT I	Icgregor St office Myers, flo Phone (239 FAX (239)	461-3169
S CLOSURES, AND HOURS OF OPERATION. STINATIONS WITHIN THE PROJECT LIMITS SHALL BE ON ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE D.O.T. A MINIMUM OF THREE (3) WORKING DAYS IN ROAD CLOSURES ARE REQUIRED AND APPROVED				ES OF AUTHORIZATION SURVEYING LB-6940 RED FOR
HALL NOTIFY THE L.C.D.O.T. A MINIMUM OF FIVE (5) ONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ID MARKINGS FOR HAZARDS AND THE CONTROL OF Y WITH THE U.S. DEPARTMENT OF RM TRAFFIC CONTROL DEVICES FOR STREETS AND C.D.O.T., SUCH AS TO EFFECTIVELY PREVENT E WORK CAUSES OBSTRUCTION TO THE NORMAL N ANY WAY A HAZARD TO THE PUBLIC.		FOF	LEE C	COUNTY OE STREET FLORIDA 33901 9533-814
E AND OBTAIN APPROVAL FOR ALL LANE CLOSURES WITH L.C.D.O.T. A MINIMUM OF 14 DAYS PRIOR TO			PHONE (23 FAX (239) W.LEEGOV.	
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AT EXISTING ROADS. ALL EXISTING PAVEMENT MAR MARKINGS SHALL BE REMOVED BY HYDRO-BLASTII NOTED OTHERWISE.		WESL FLORIDA P	ENGINEER C EY S. KAYNE, P.E. NO. 80507	DF RECORD P.E., FOR THE FIRM - WESK@BARRACO.NET
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CRETE OR ASPHALT SHALL BE INSTALLED IN A F.D.C	D.T.			ICED DRAWINGS
			PLAN RE	VISIONS
ROJECT SPECIFIC CONTRACT DOCUMENTS WHICH IN CHNICAL SPECIFICATIONS FOR NOTES REGARDING AY ITEMS.				
IER PIPE WILL BE PAID BASED ON QUANTITY PROVID	TOR			
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ARE BASED UPON SUBSURFACE UTILITY AND QL-A PROVIDED BY AIM ENGINEERING 2-02-11		STA	- NDAR	RD NOTES
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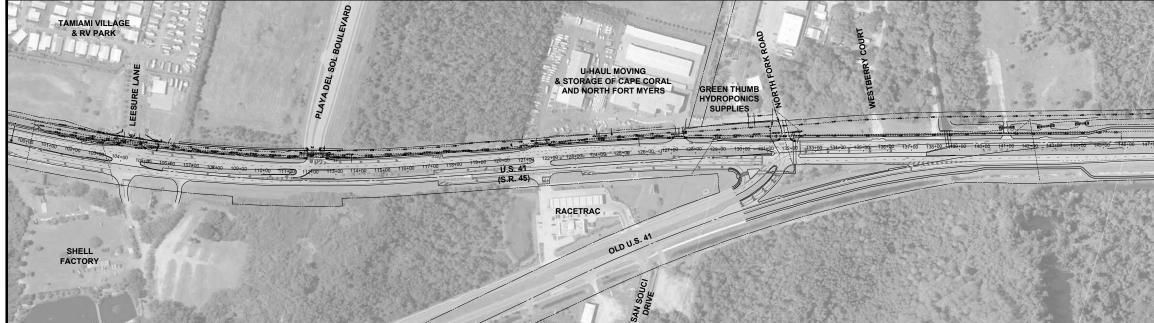
## LEE COUNTY UTILITIES STANDARD PLAN NOTES:

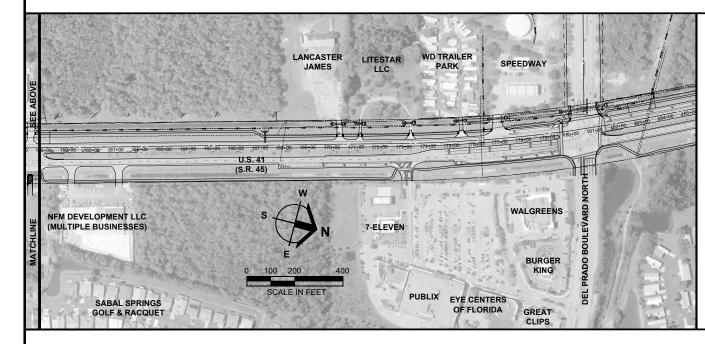
THE STANDARD NOTES SHOWN BELOW SHALL BE INCLUDED ON ALL WATER AND SEWER PLANS SUBMITTED FOR APPROVAL TO LEE COUNTY UTILITIES (LCU).

- 1. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LCU DESIGN MANUAL WHICH IS AVAILABLE ON OUR WEB-PAGE VIA THE FOLLOWING LINK: HTTPS://WWW.LEEGOV.COM/UTILITIES/DESIGN-MANUAL
- 2. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH AS WELL.
- 3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU.
- 4. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS THAT MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- 5. ALL CONSTRUCTION WORK PERFORMED MUST BE DONE BY A CONTRACTOR LICENSED IN THE STATE OF FLORIDA TO DO THE WORK INTENDED.
- 6. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. REQUIRED ATTENDEES INCLUDE BUT ARE NOT LIMITED TO; THE ENGINEER OF RECORD OR HIS DESIGNEE, THE UNDERGROUND CONTRACTOR AND THE LCU INSPECTOR ASSIGNED TO THE PROJECT. LCU IS TO BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 7. ONE COPY OF THE LCU APPROVED/STAMPED CONSTRUCTION PLANS, ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND TECHNICAL DOCUMENTS SUBMITTED MUST BE KEPT AT THE SITE AND MAINTAINED IN GOOD ORDER.
- 8. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 9. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
- 10. LCU INSPECTION STAFF IS TO BE PRESENT FOR ALL HOT TAPS, PRESSURE TESTS, LIFT STATION START-UPS AND FOR ANY NECESSARY INSPECTION. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO (2) WORKING DAYS NOTICE PRIOR TO SCHEDULING ANY OF THE ABOVE WITH THE EXCEPTION OF THE LIFT STATION START-UP WHICH REQUIRES ONE-WEEK NOTICE
- 11. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 12. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
- 13. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS.
- 14. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST TWO (2) WORKING DAYS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES, FDOT AND LCDOT PRIOR TO CONSTRUCTION.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY OCCUR DUE TO HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.
- 16. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER OF RECORD.
- 17. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND LCU.
- 19. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
- 20. WITHIN THE FDOT AND LCDOT RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH FDOT SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.
- 21. ALL FRAMES, COVERS VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS WILL BE ALLOWED.
- 22. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BALES) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH LEE COUNTY'S NPDES PERMIT.
- 23. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
- 24. LCU REQUIRES 30" OF COVER FOR ALL UNDERGROUND PIPING EXCEPT UNDER PAVEMENT, WHERE 36" OF COVER IS REQUIRED. IF LCU REQUIRED COVER CANNOT BE MAINTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHODS OF CONSTRUCTION OR PIPE PROTECTION, WHICH SHALL FIRST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY. IF STATE AGENCIES REQUIRE ADDITIONAL COVER, MEETING THE REQUIREMENTS SHALL BE DONE AT NO ADDITIONAL COST TO THE COUNTY.
- 25. LCU REQUIRES THERE TO BE A MINIMUM OF TEN (10) FEET HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN POTABLE WATER & SANITARY SEWER MAINS. LCU ALSO REQUIRES MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN OTHER PUBLIC AND/OR PRIVATE UTILITIES, STRUCTURE(S), BUILDING(S), WALL(S), FOUNTAIN(S), FENCE(S) AND LCU INFRASTRUCTURE UNLESS SPECIFICALLY APPROVED BY LCU.

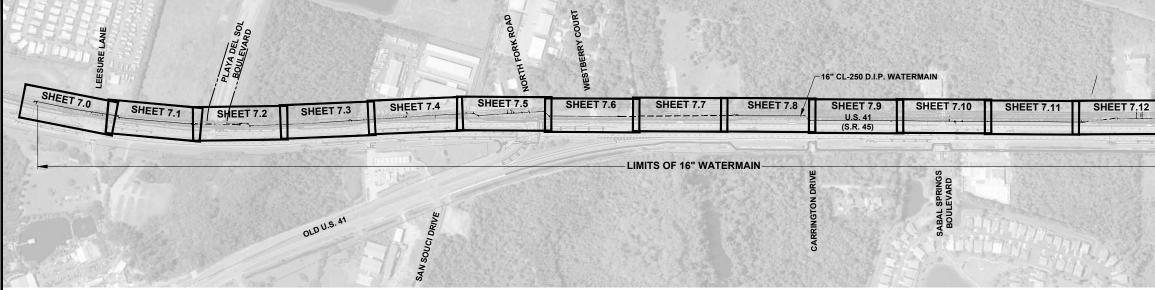
- LCU REQUIRES THERE TO BE A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND DRAINAGE INFRASTRUCTURE, MITERED END SECTIONS, INLETS, ETC. LCU ALSO REQUIRES MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND ALL NEW LIGHT POLE FOUNDATIONS.
- 27. THE ROOT BALL OF PALM TREES SHALL BE A MINIMUM OF FIVE (5) FEET AND THE ROOT BALL OF SHADE TREES SHALL BE A MINIMUM OF TEN (10) FEET FROM ANY EXISTING OR PROPOSED LCU OWNED AND MAINTAINED PIPE/INFRASTRUCTURE.
- 28. AS THE WORK PROGRESSES THE CONTRACTOR SHALL RECORD ALL CHANGES AND DEVIATIONS FROM THE LCU STAMPED/APPROVED CONSTRUCTION PLANS. IN ADDITION, HE SHALL RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT WITH COORDINATES WITH RESPECT TO THE NAVD 1988 STATE PLANE FLORIDA WEST COORDINATE SYSTEM AS WELL AS ALL REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL. THIS INFORMATION IS TO BE FORWARDED TO THE ENGINEER OF RECORD WHO PREPARED, SIGNED AND SEALED THE APPROVED CONSTRUCTION PLANS SO THAT HE CAN PREPARE 'RECORD DRAWINGS' PER THE REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL.

DRAWING NOT VALD WITHOUT SEAL. SIGNATURE AND DATE PORTOR RECORD DESCRIPTION PREPARED FOR PREPARED FOR PREPARE
LEE COUNTY      Isoo MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239) 533-8181 FAX (239) 485-8845      WWW.LEEGOV.COM/UTILITIES      PROJECT DESCRIPTION      NORTH U.S. 41     (S.R. 45) I G-INCH WATER MAIN      LITTLETON ROAD TO     DEL PRADO BOULEVARD      PART OF SECTION 22 & 27,     TOWNSHIP 43 SOUTH,     RANGE 24 EAST FORT MYERS, LEE COUNTY, FLORIDA      ENGINEER OF RECORD      WEESLEY S. KAYNE, P.E., FOR THE FIRM FLORIDA P.E. NO. 80507 - WESK@BARRACO.NET       OCOPYRIGHT 2023, BARRACO AND ASSOCIATES, INC.      REPROUCTION      DAMING NOT VALUD WITHOUT SEAL, SIGNATURE AND DATE     (OCOPYRIGHT 2023, BARRACO AND ASSOCIATES, INC.      REPROUCTION, CHARGES OR ASSIGNMENTS ARE PROHIBITED      FILE NAME     Z3994403.DWG     LOCATION      PLAN REVISIONS      PLAN REVISIONS      PLAN REVISIONS      L.C.U. NOTES
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# UTILITIES PROVIDING SERVICE:

# WATER

LEE COUNTY UTILITIES 1500 MONROF ST FORT MYERS, FL 33901 PHONE (239) 533-8160

# WASTE WATER

F.G.U.A 5660 BAYSHORE ROAD SUITE 36 NORTH FORT MYERS, FL 33917 PHONE (239) 543-1005

# TELEPHONE

CENTURYLINK TELEPHONE CO. 5100 DANIELS PARKWAY #300 FORT MYERS, FL 33912 PHONE (239) 590-0440 ELECTRIC

LEE COUNTY ELECTRIC COOPERATIVE 4941 BAYLINE DRIVE NORTH FORT MYERS, FL 33917 PHONE (800)599-2356

FIRE CONTROL DISTRICT

NORTH FORT MYERS FIRE DISTRICT 2900 TRAIL DAIRY CIRCLE NORTH FORT MYERS, FL 33917 PHONE (239) 997-8654

# GAS

TECO PEOPLE'S GAS 5901 ENTERPRISE PARKWAY FORT MYERS, FL 33905 PHONE (239) 832-6747

# CABLE TELEVISION:

COMCAST 12641 CORPORATE LAKES DRIVE FORT MYERS, FL 33913 PHONE (239) 908-6571

# UTILITY LOCATING SERVICE

SUNSHINE STATE ONE CALL CENTER **PHONE 811** (MINIMUM 48 HOURS NOTICE REQUIRED)

# GENERAL PROJECT NOTES:

- EXISTING CONDITIONS DEPICTED IN THESE PLANS DO NOT NECESSARILY REFLECT UTILITY AND DRAINAGE ADJUSTMENTS THAT MAY BE UNDER CONSTRUCTION BY F.D.O.T.
- ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND THE LONGITUDINAL SLOPE SHALL 3. NOT EXCEED 5%, INCLUDING SIDEWALK CROSSINGS AT DRIVEWAYS.
- PROPOSED VALVES, BLOW-OFFS AND OTHER UTILITY APPURTENANCES SHALL NOT BE LOCATED WITHIN PROPOSED OR EXISTING SIDEWALKS UNLESS SPECIFICALLY APPROVED BY LEE COUNTY UTILITIES.
- ALL EXISTING MAINS TO BE TAKEN OUT OF SERVICE SHALL BE REMOVED WITH THE 5. EXCEPTION OF MAINS UNDER EXISTING ROADWAYS WHICH SHALL BE GROUTED.
- WHERE TRACER WIRE DOES NOT PROVIDE ACCURATE SIGNAL FOR LOCATION OF EXISTING WATERMAIN OR FORCEMAIN PIPE SOFT DIG HOLE EVERY 100 FEET TO LOCATE PIPF
- BETWEEN AIR RELEASE VALVES THERE SHALL BE NO HIGH POINTS IN PIPE. CONTRACTOR SHALL ADJUST PIPE DEPTH OF COVER AS NECESSARY TO MEET THIS REQUIREMENT
- ALL DISTURBED AREAS SHALL RECEIVE SOD UPON COMPLETION OF CONSTRUCTION. 8
- PAVEMENT DAMAGED BEYOND THE LIMITS SHOWN SHALL BE REPAIRED BY THE 9. CONTRACTOR REPAIRS SHALL INCORPORATE THE ENTIRE LENGTH OF DAMAGE FOR THE FULL WIDTH OF A TRAVEL LANE. NO ADDITIONAL COMPENSATION SHALL BE MADE.
- DRIVEWAY AND SIDEWALK REPLACEMENT SHALL BE FROM EDGE OF PAVEMENT / 10 CONCRETE TO THE NEAREST EXPANSION JOINT OR RIGHT-OF-WAY LINE, WHICHEVER IS CLOSEST TO INSTALLED UTILITY
- TREES THAT ARE REPLACED IN-KIND SHALL BE PLACED AT THE DIRECTION OF THE 11. ENGINEER, BUT SHALL NOT BE PLANTED DIRECTLY OVER THE NEWLY INSTALLED UTILITY
- HORIZONTAL DIRECTIONAL DRILL GEOMETRY OF 13° ENTRANCE AND EXIT ANGLES AND 450' BENDING RADIUS SHOWN FOR REFERENCE ONLY. VERTICAL AND HORIZONTAL CLEARANCES SHALL BE STRICTLY OBSERVED. THE CONTRACTOR MAY ADJUST THE ENTRY AND EXIT ANGLES AND RADIUS OF CURVATURE AS REQUIRED BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION AND THE CAPABILITIES OF THE EQUIPMENT UTILIZED. ANY MODIFICATIONS SHALL BE COORDINATED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- 13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT HORIZONTAL AND VERTICAL TRANSITION OF FORCEMAINS AND WATERMAINS USING NO MORE THAN 75% OF THE MAXIMUM ALLOWABLE DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER. SHOP DRAWINGS SHALL BE FURNISHED TO THE ENGINEER FOR APPROVAL OF ALL PIPE CONNECTIONS, TRANSITIONS, ETC, PRIOR TO FABRICATION OR DELIVERY TO JOB SITE
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WASTEWATER SPILLS THAT OCCUR 14 DURING CONSTRUCTION AND FOR ASSOCIATED MONETARY FINES FROM STATE REGULATORY AGENCIES
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL TO INCLUDE EXCESS SPOILS, DRILLING FLUID, DEMOLITION DEBRIS AND ROCK. CONTRACTOR SHALL TRANSPORT AND DISPOSE OF ALL MATERIAL AT AN OFF-SITE FACILITY MEETING ALL LOCAL. STATE AND FEDERAL REQUIREMENTS
- CONTRACTOR TO COORDINATE BRACING, PROTECTION AND OR RELOCATION OF 16 EXISTING UTILITIES WITH THE UTILITY OWNER, ANY COST ASSOCIATED WITH THESE UTILITIES IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION AND SHALL BE BORNE BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION SHALL BE MADE.
- ALL EXISTING MAINS WHICH ARE TO BE REPLACED AS PART OF THIS PROJECT SHALL BE 17. REMOVED WHERE PRACTICAL ANY EXISTING MAINS NOT DEPICTED IN THESE PLANS. WHICH ARE UNCOVERED DURING CONSTRUCTION SHALL BE REMOVED OR GROUTED IN PLACE, AS DIRECTED BY THE ENGINEER OF RECORD, ONCE PROPOSED REPLACEMENT MAIN IS PUT INTO SERVICE

- ALL ASBESTOS CONCRETE PIPE TO BE REMOVED AND DISPOSED OF SHALL BE 18. PERFORMED BY A CONTRACTOR LICENSED AND CERTIFIED TO DO SO AND SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THOSE OF F.D.E.P., O.S.H.A., AND F.D.O.T.
- 19 REQUIRED CONSTRUCTION STAKING BY A LICENSED STATE OF FLORIDA P.S.M. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COST OF CONSTRUCTION STAKING SHALL BE PAID FOR UNDER MISC. BID TABULATION ITEMS, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS SERVICE
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUOUS OPERATION 20. OF ALL TRAFFIC SIGNALS, STREET LIGHTING, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS, AND ANY OTHER ABOVE GROUND OR UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION LIMITS OR FACILITIES AFFECTED BY CONSTRUCTION
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN PEDESTRIAN ACCESS 21. WITHIN THE CONSTRUCTION LIMITS. IF NOT FEASIBLE DUE TO SAFETY CONCERNS, AND UPON APPROVAL, THE CONTRACTOR MAY PROVIDE PROPER SIGNAGE AND CONTROLS TO CLOSE LIMITED SIDEWALKS WITHIN THE RIGHT-OF-WAY. CLOSURE SHALL BE AT THE COST OF THE CONTRACTOR AND DETOURS MUST BE PROVIDED TO DIRECT AND RE-DIRECT PEDESTRIAN PATTERNS AT CONTROLLED INTERSECTIONS.
- 22. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN STILL PHOTOS AND VIDEO TAPING OF THE ENTIRE PROJECT LIMITS OF ALL EXISTING AND NEAR FACILITIES WITHIN THE CONSTRUCTION WORK AREA, COPIES OF THE COMPLETE REPORT SHALL BE REQUIRED PRIOR TO THE START OF CONSTRUCTION.

# ASBUILT PLANS AND RECORD DRAWINGS:

- THE SIZE, MATERIAL, AND MATERIAL CLASSIFICATION OF EACH WATERMAIN SHALL BE SHOWN AT LEAST ONCE ON EACH SHEET AND AT EVERY TRANSITION / CHANGE IN SIZE, MATERIAL, ETC. POTABLE WATERMAINS, SANITARY SEWER FORCE MAINS AND RECLAIMED WATERMAINS SHALL ALSO INCLUDE
- VERTICAL ALIGNMENT (ELEVATIONS) AND COORDINATES (NAVD 1988 STATE PLAN WEST (FEET) COORDINATE SYSTEM) EVERY 100 FEET IF MAIN INSTALLED IS BETWEEN 2-5 FEET. IF WATERMAIN IS CONSTRUCTED BELOW 5 FEET THE LOCATION POINTS SHALL BE REDUCED TO ONE EVERY 20 FEET.

THE COORDINATES SHALL BE WITH RESPECT TO NAVD 1988 STATE PLANE FLORIDA WEST (FEET) COORDINATE SYSTEM (X,Y, AND Z) TO THE NEAREST HUNDREDTH FOR ALL FIRE HYDRANTS, FITTINGS, VALVES, WATER METERS, AND WATERMAINS ALONG THE WATERMAIN (I.E., E:698055.12 N: 839365.27).

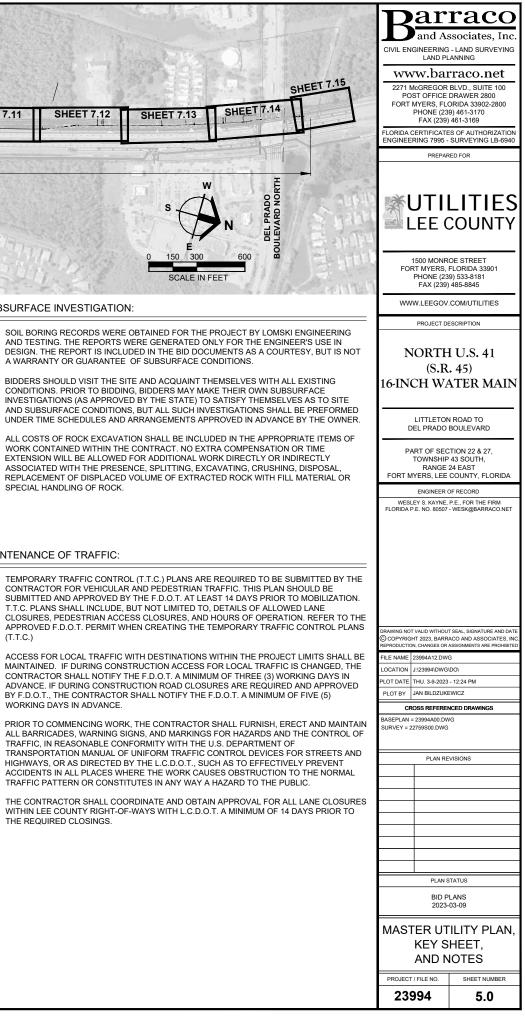
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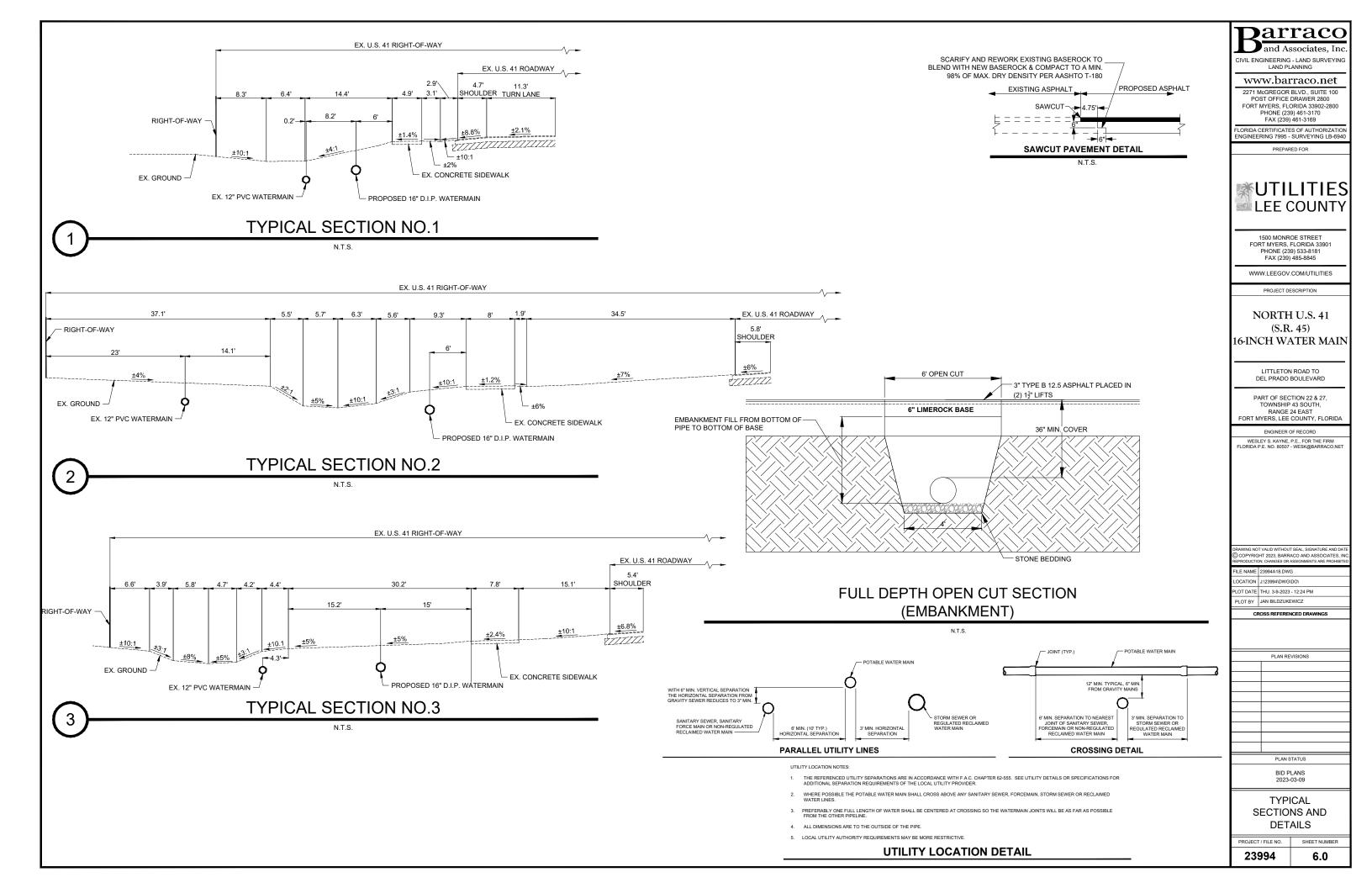
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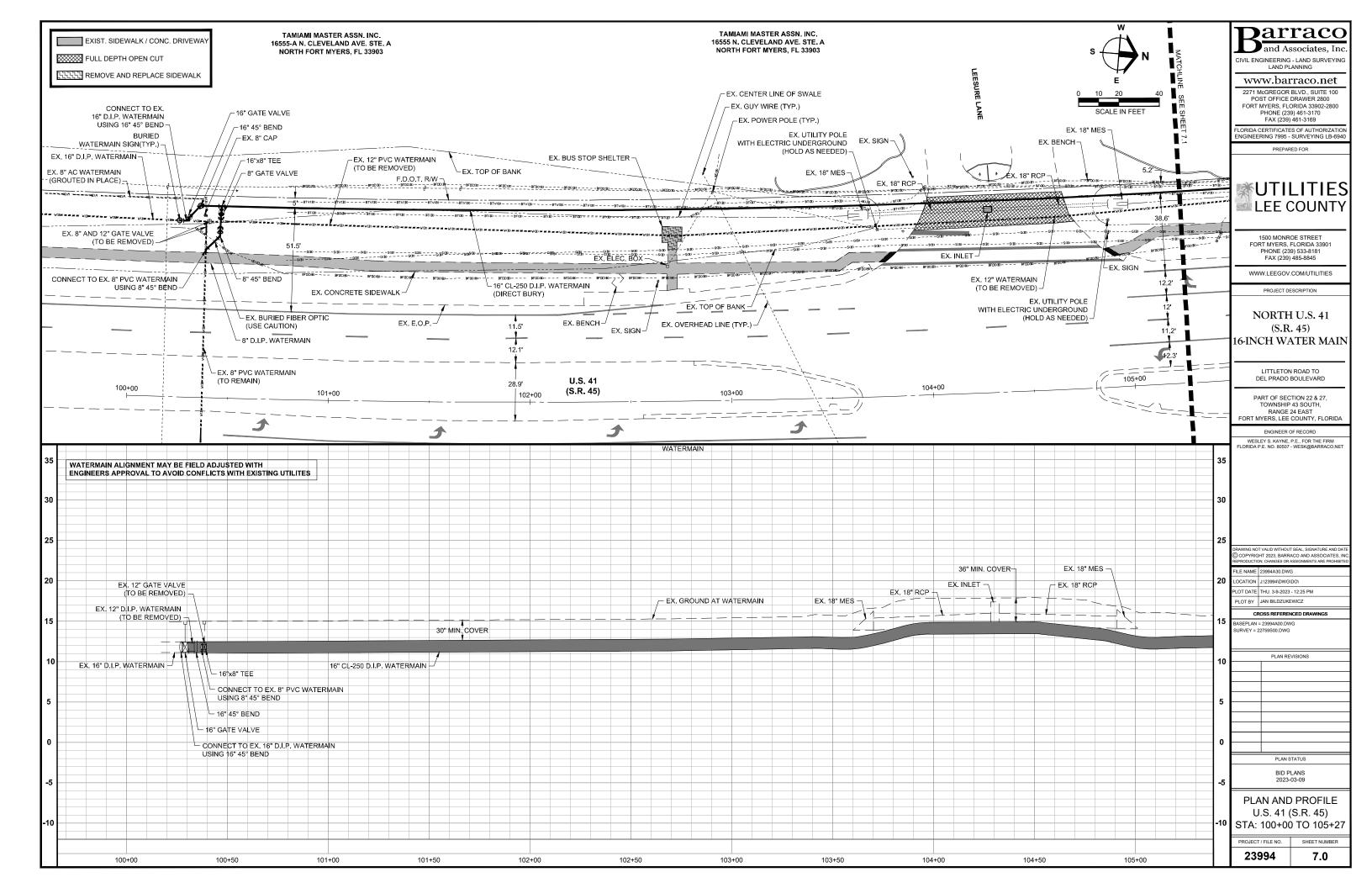
- 1.
- 2.
- 3. SPECIAL HANDLING OF ROCK.

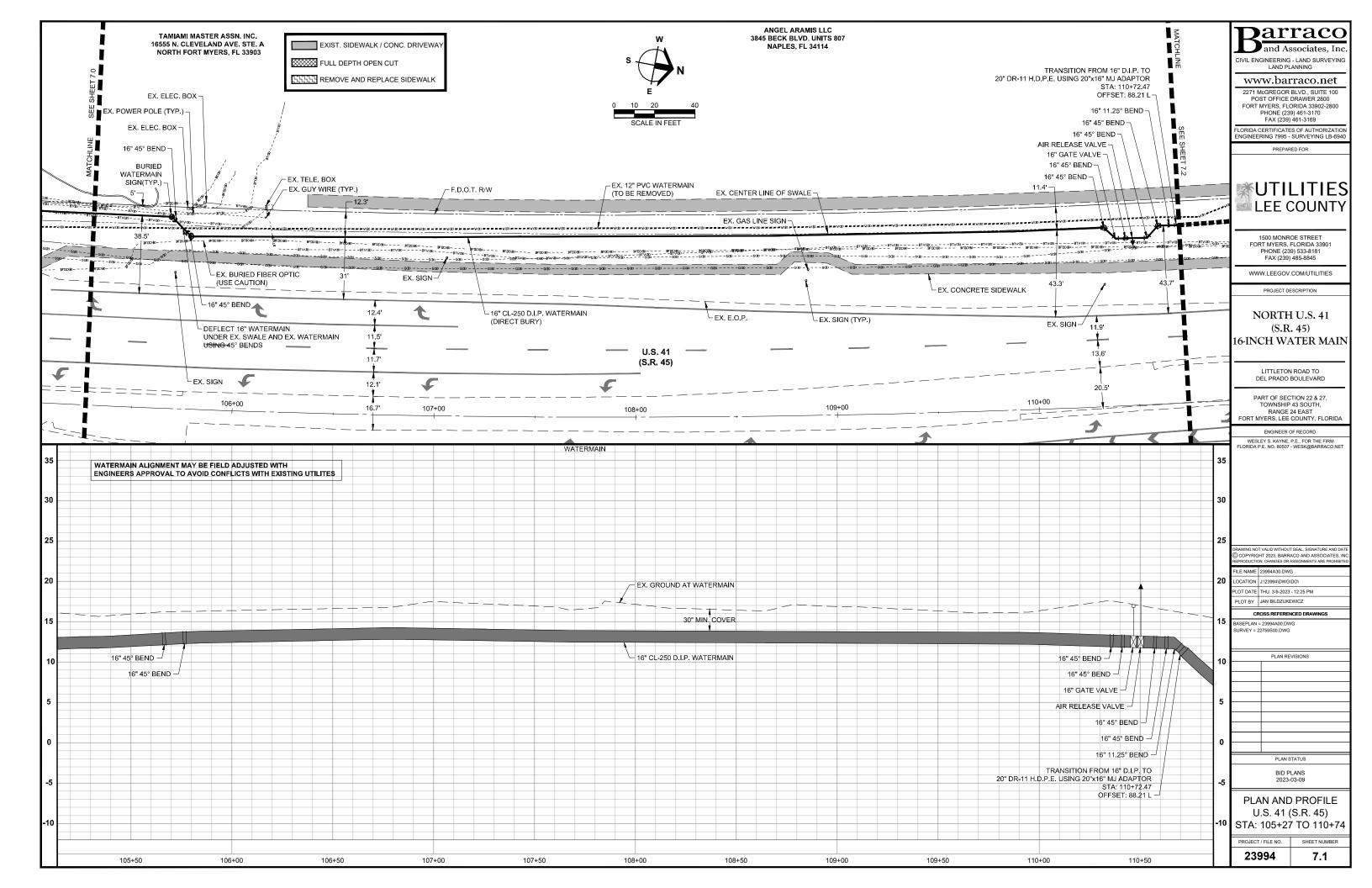
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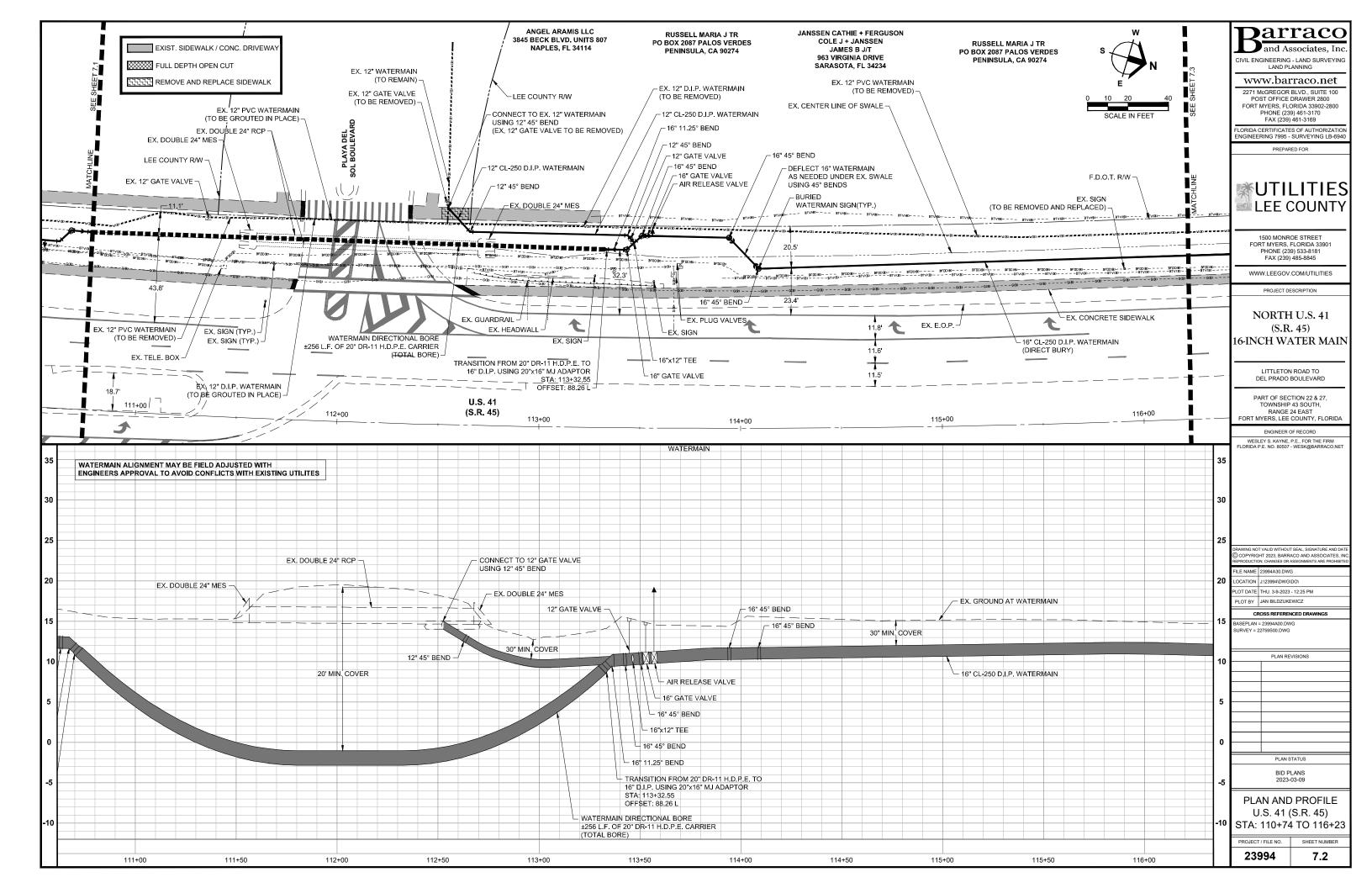
- (TTC)
- 2. WORKING DAYS IN ADVANCE.
- 3.
- 4. THE REQUIRED CLOSINGS

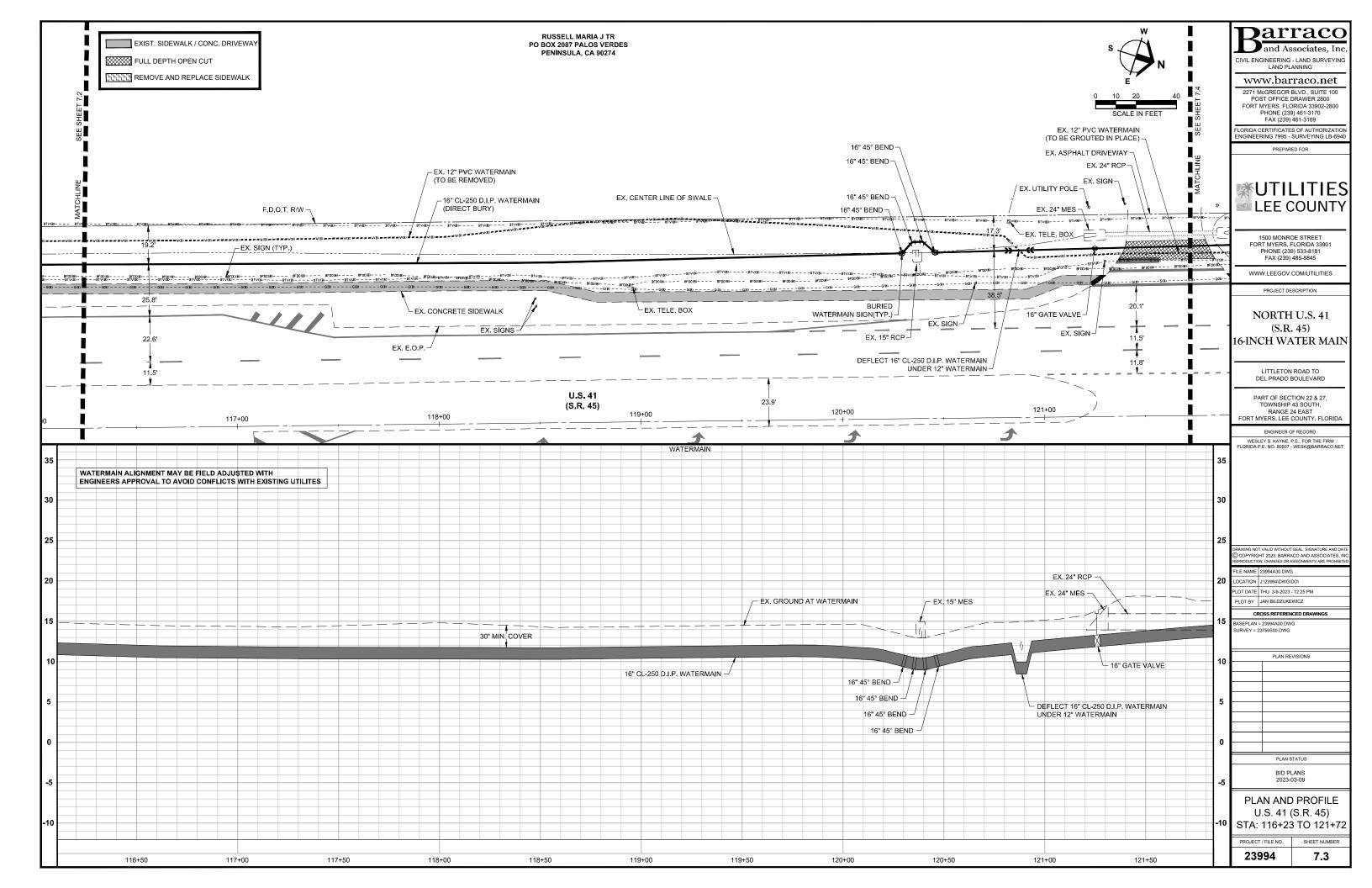


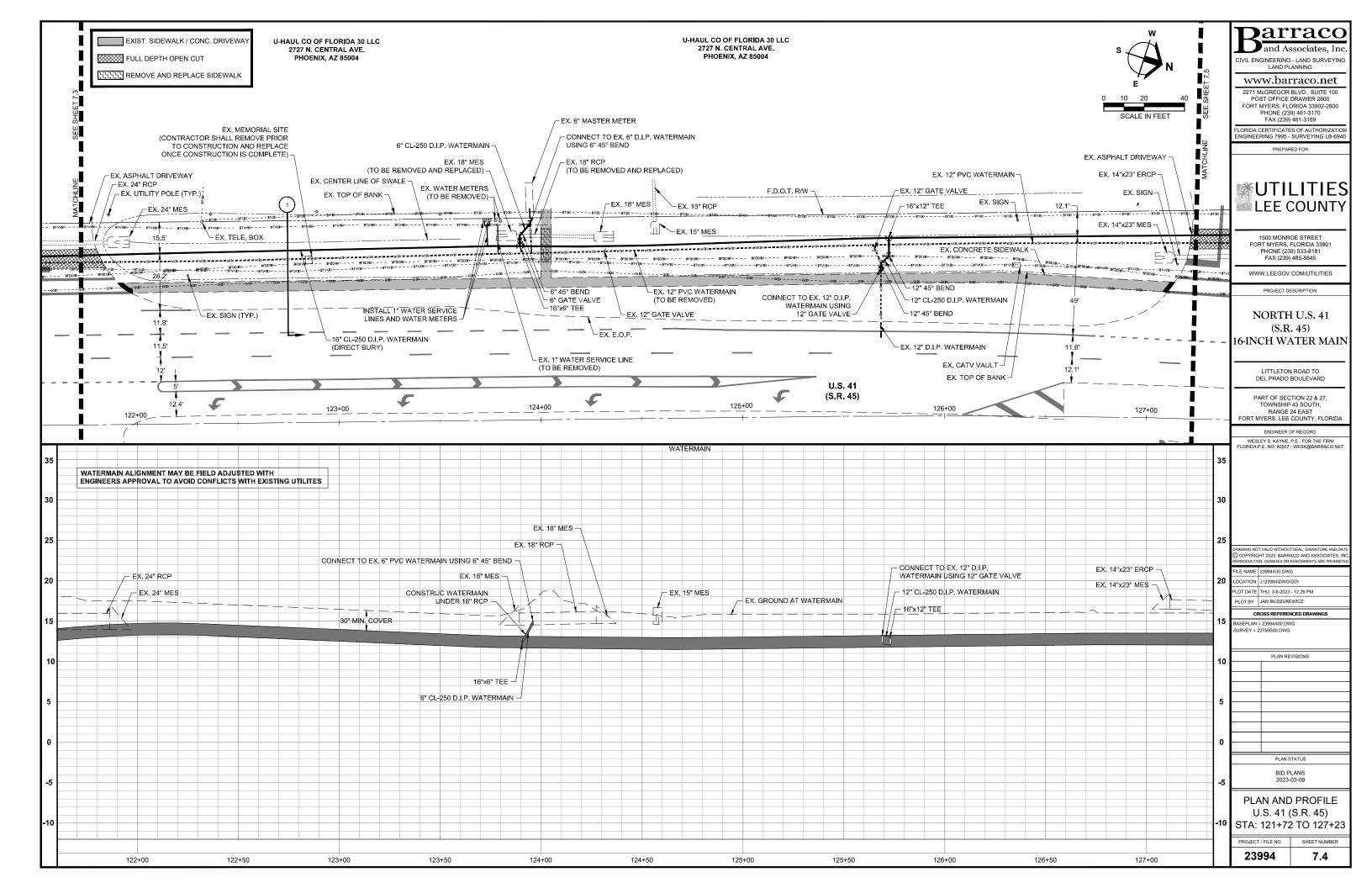


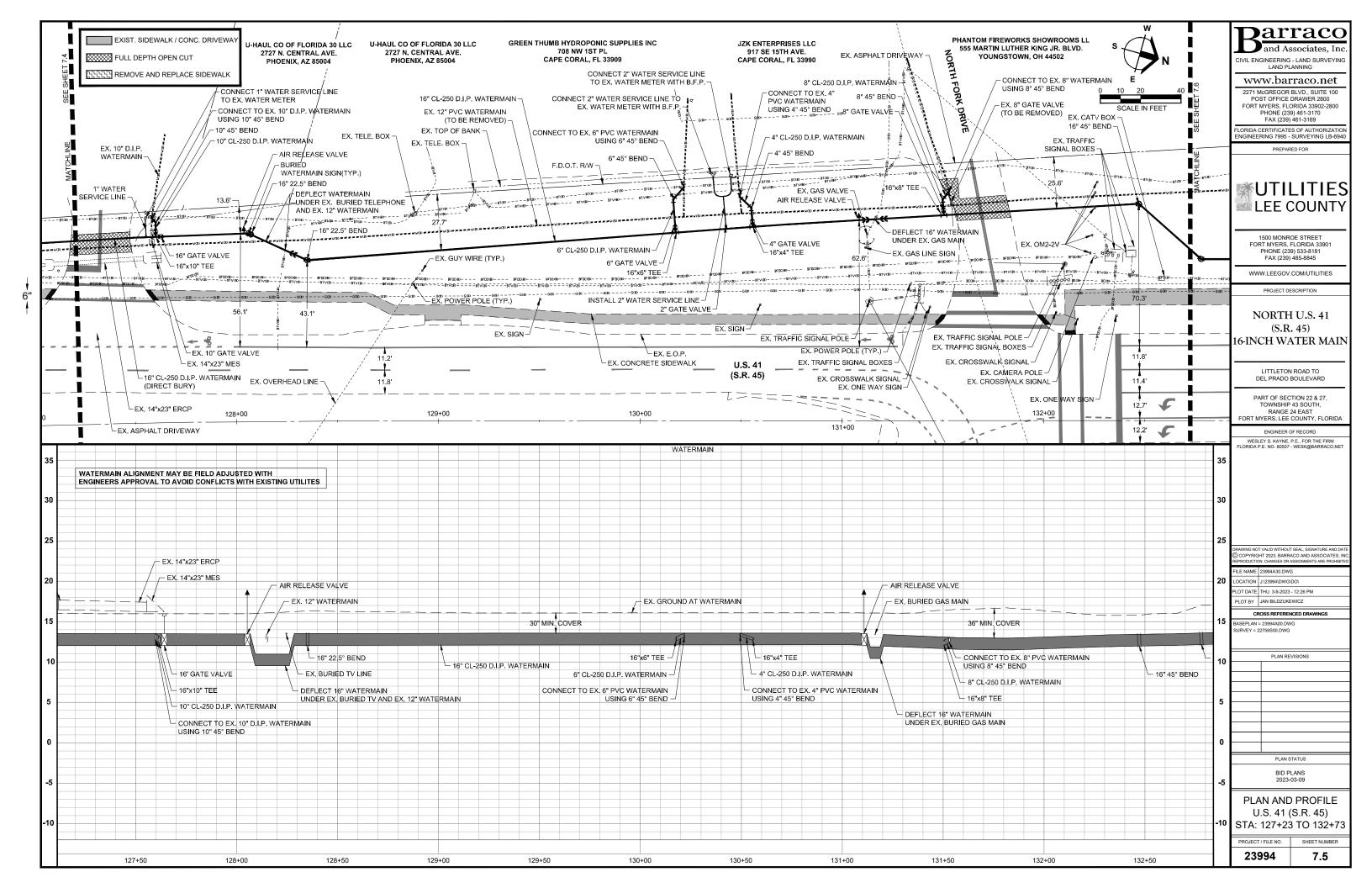


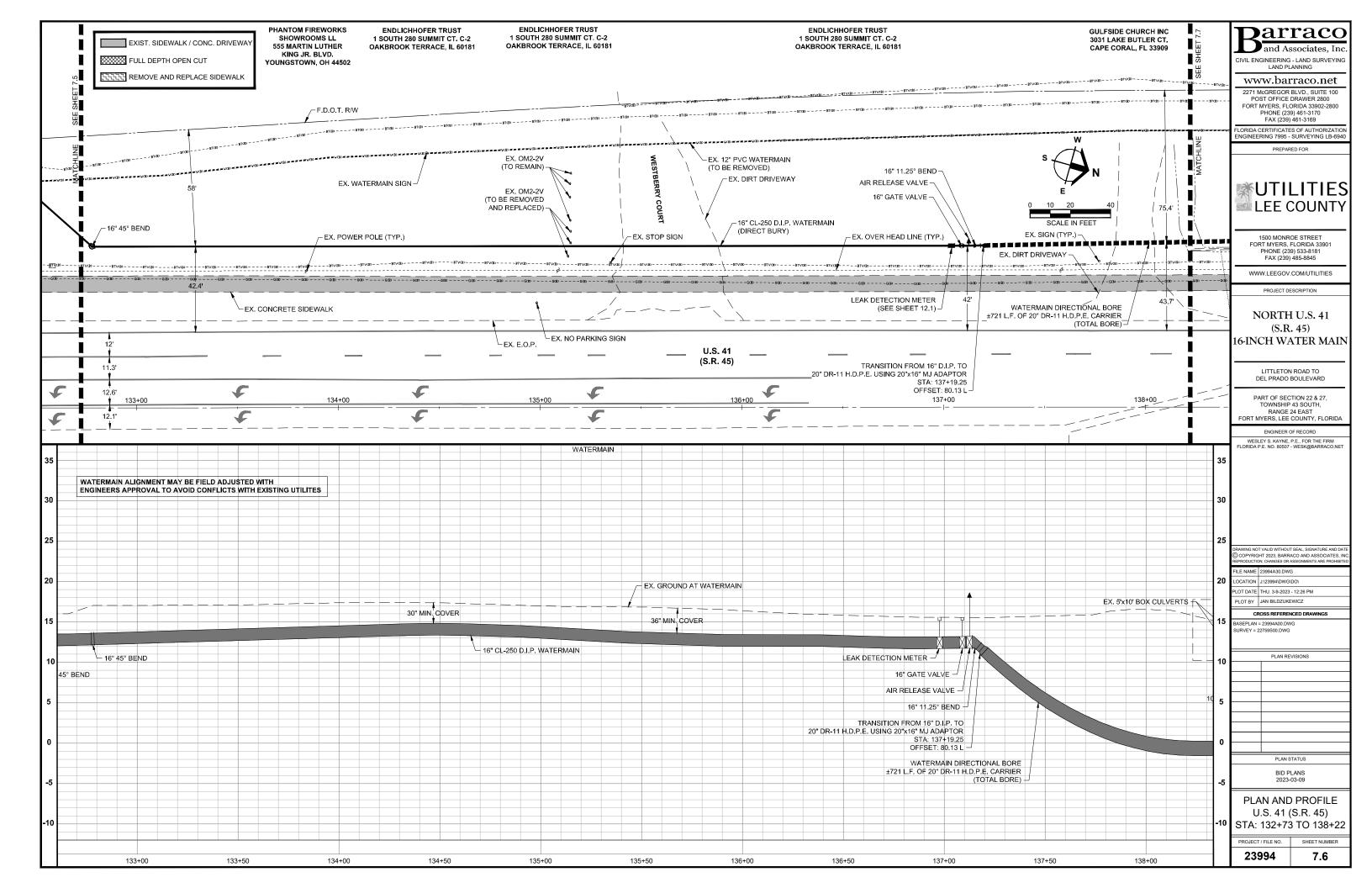


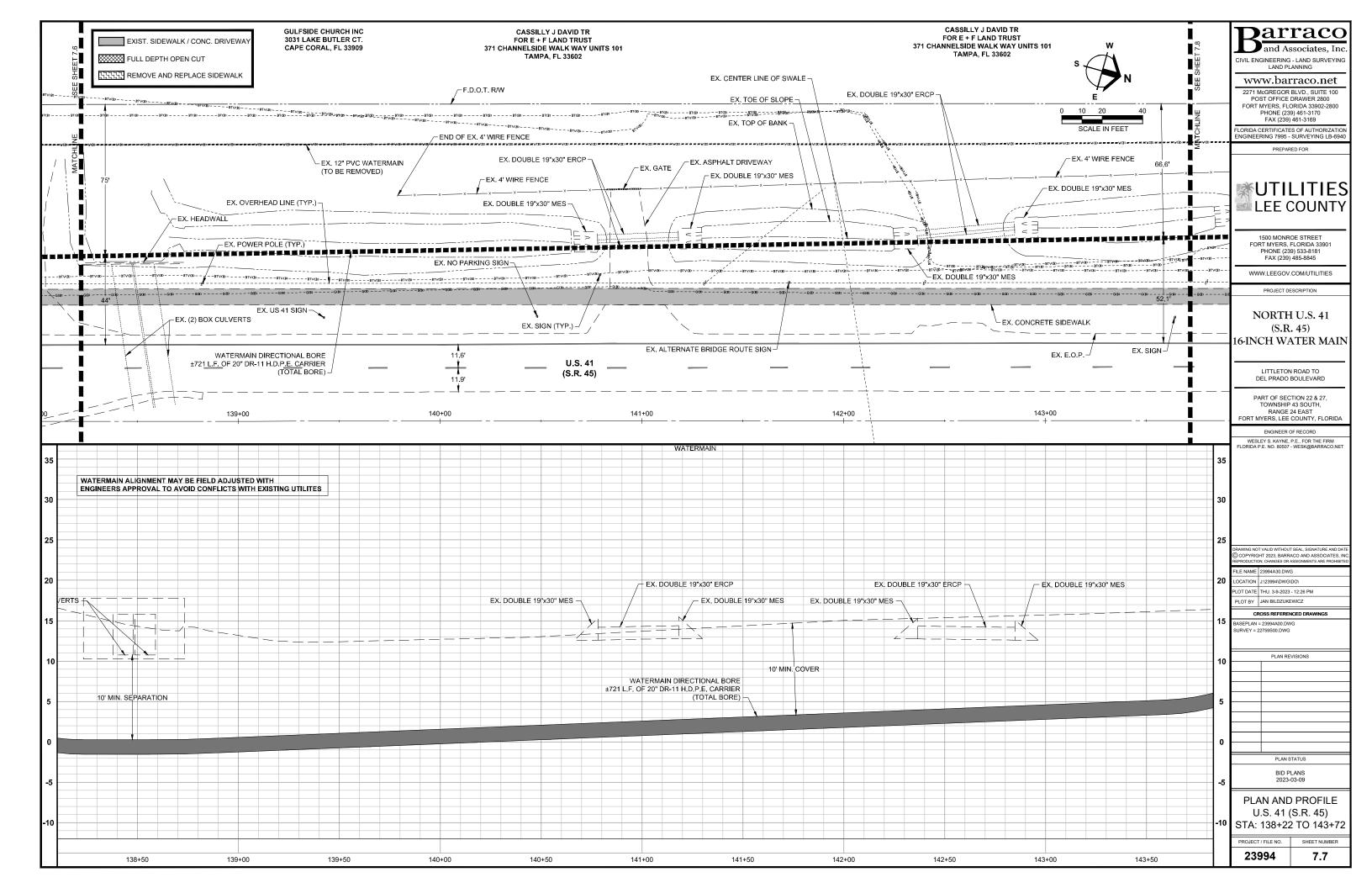


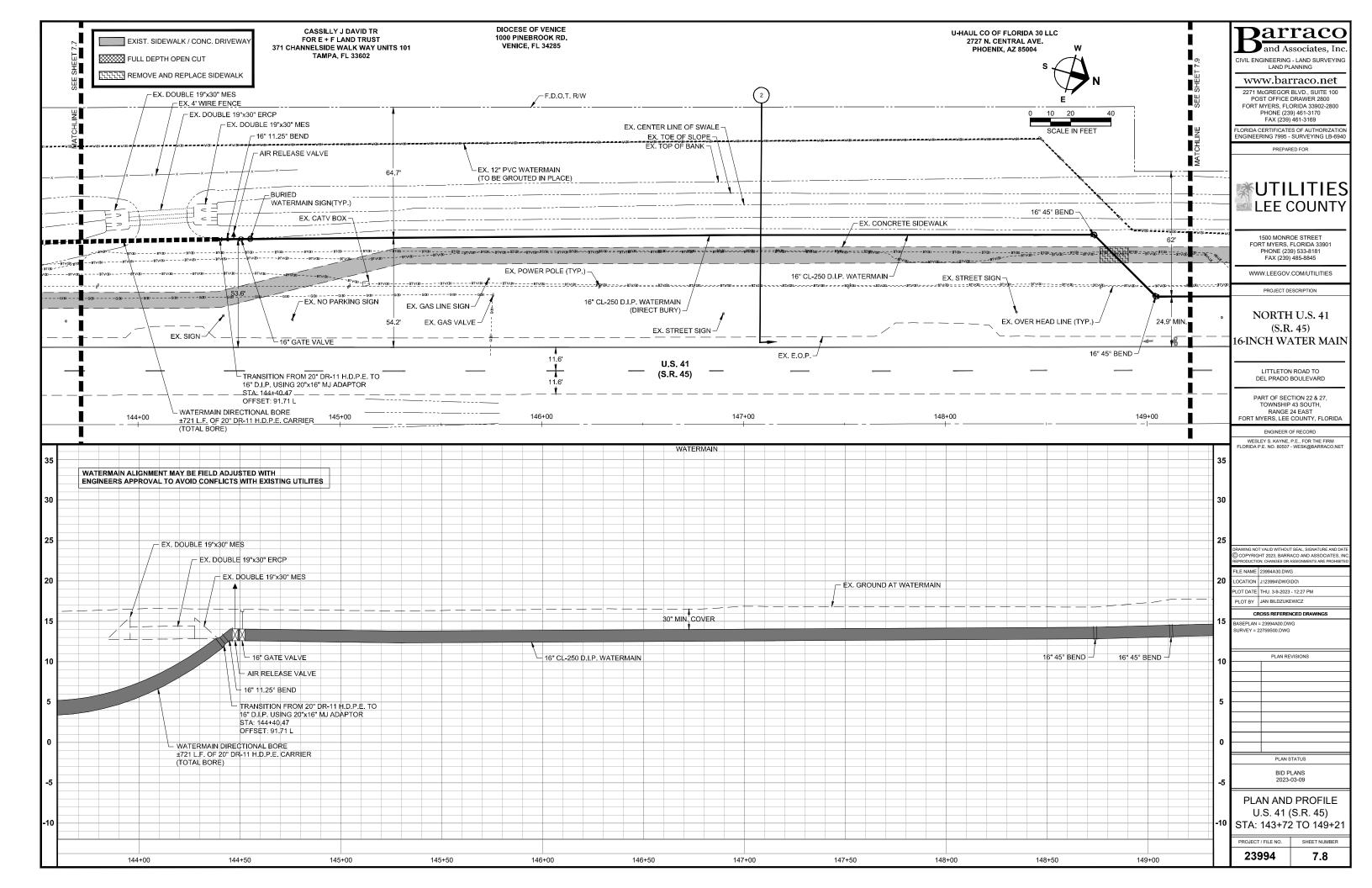


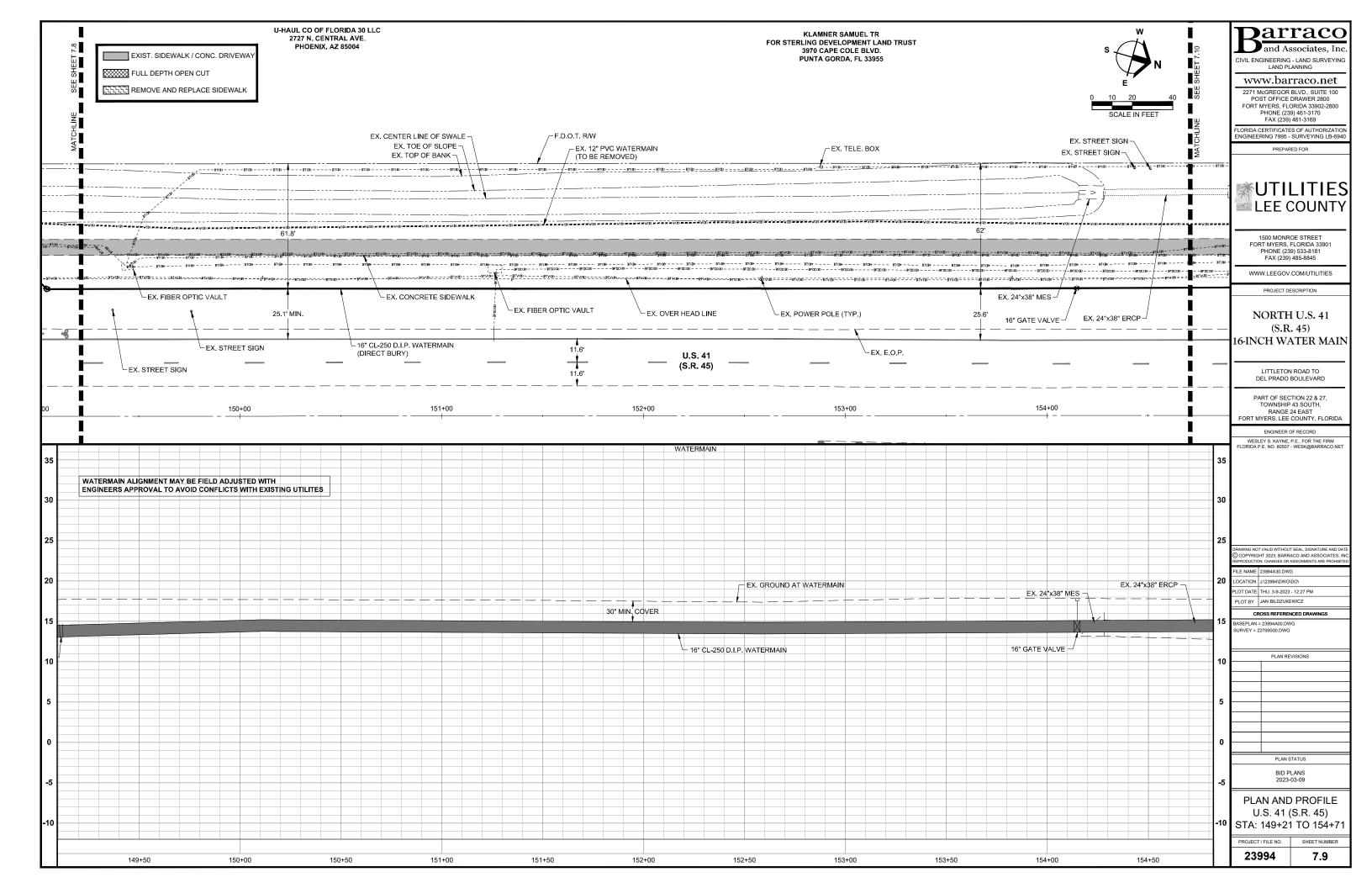


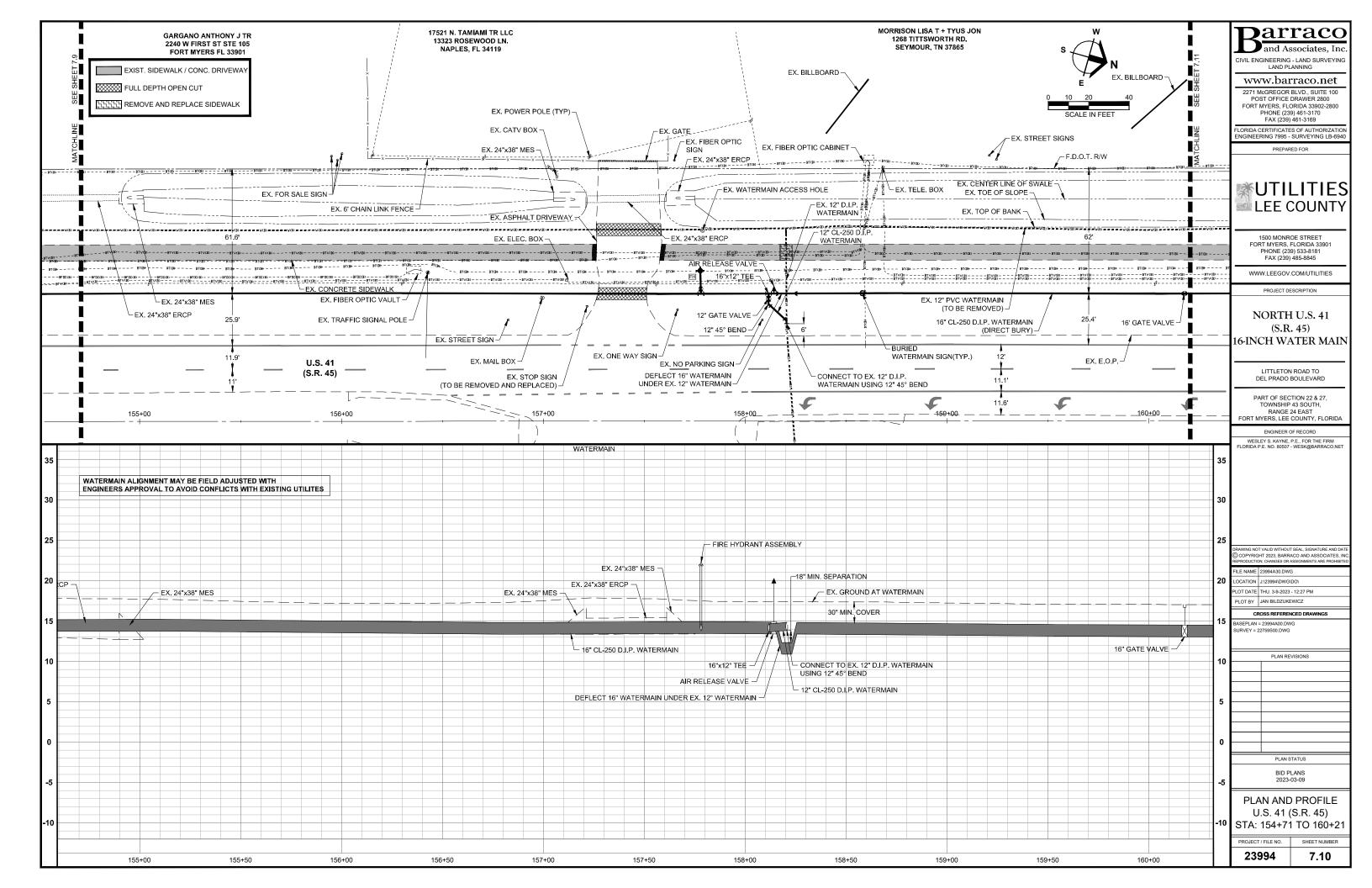


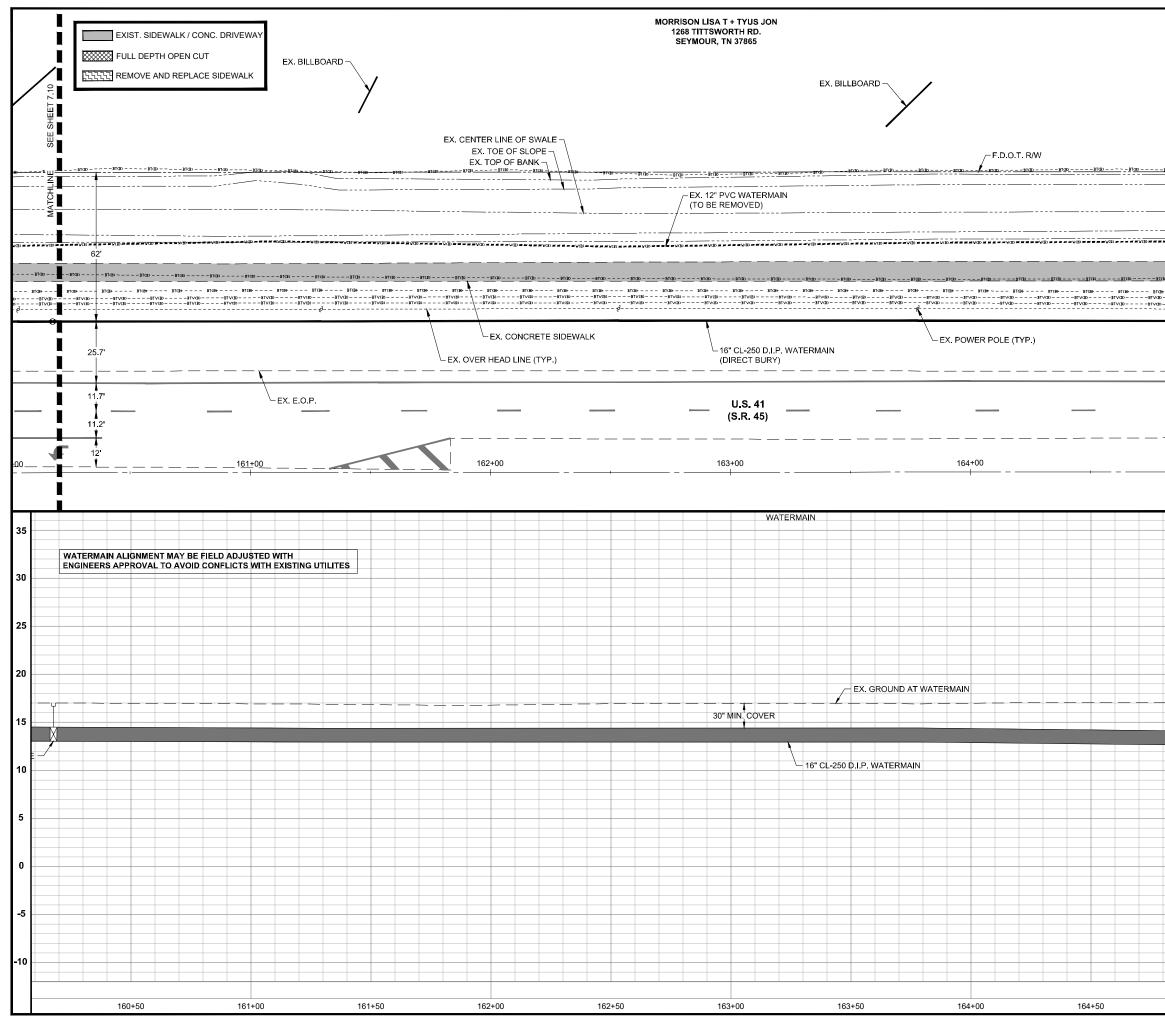




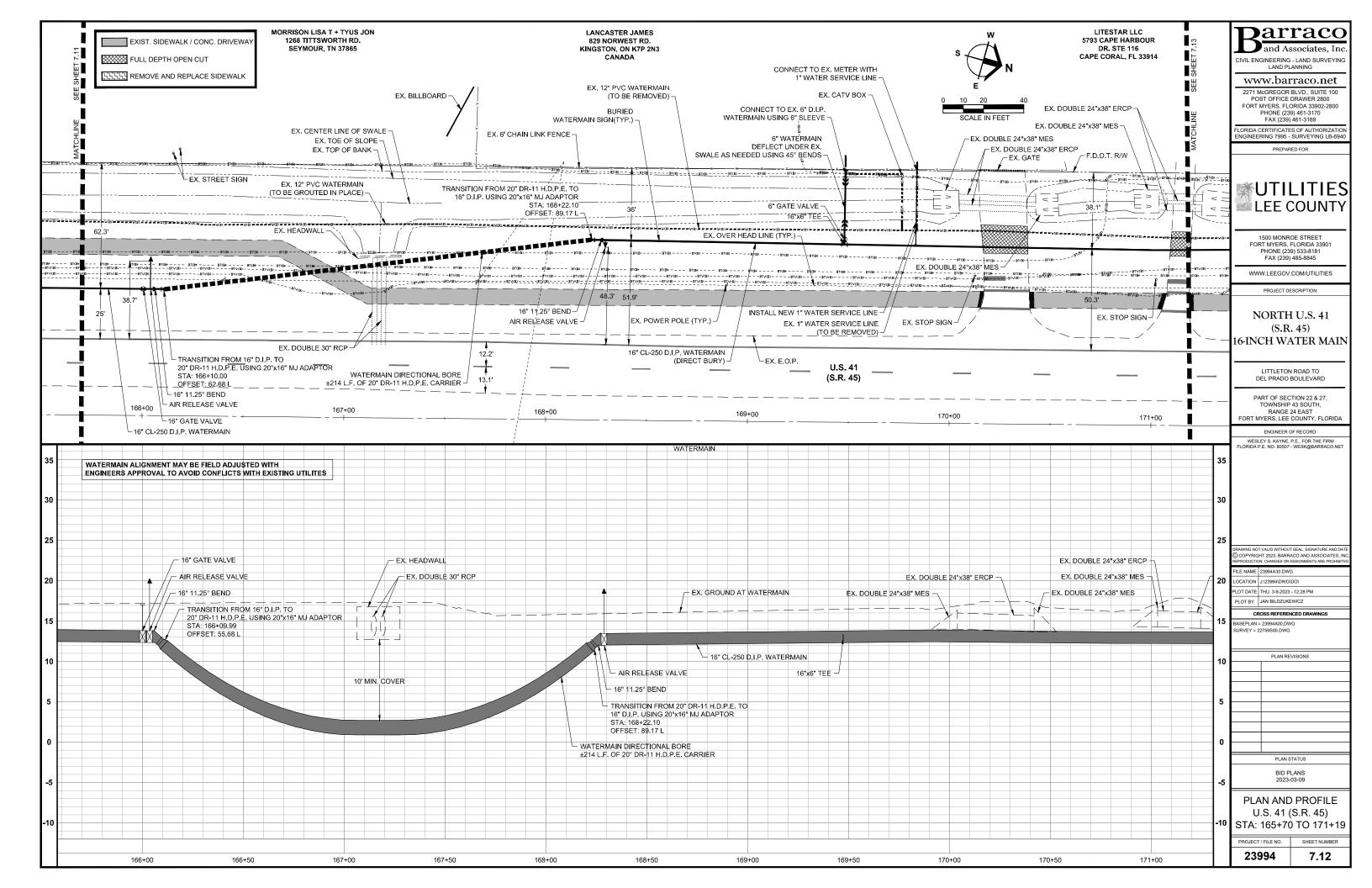


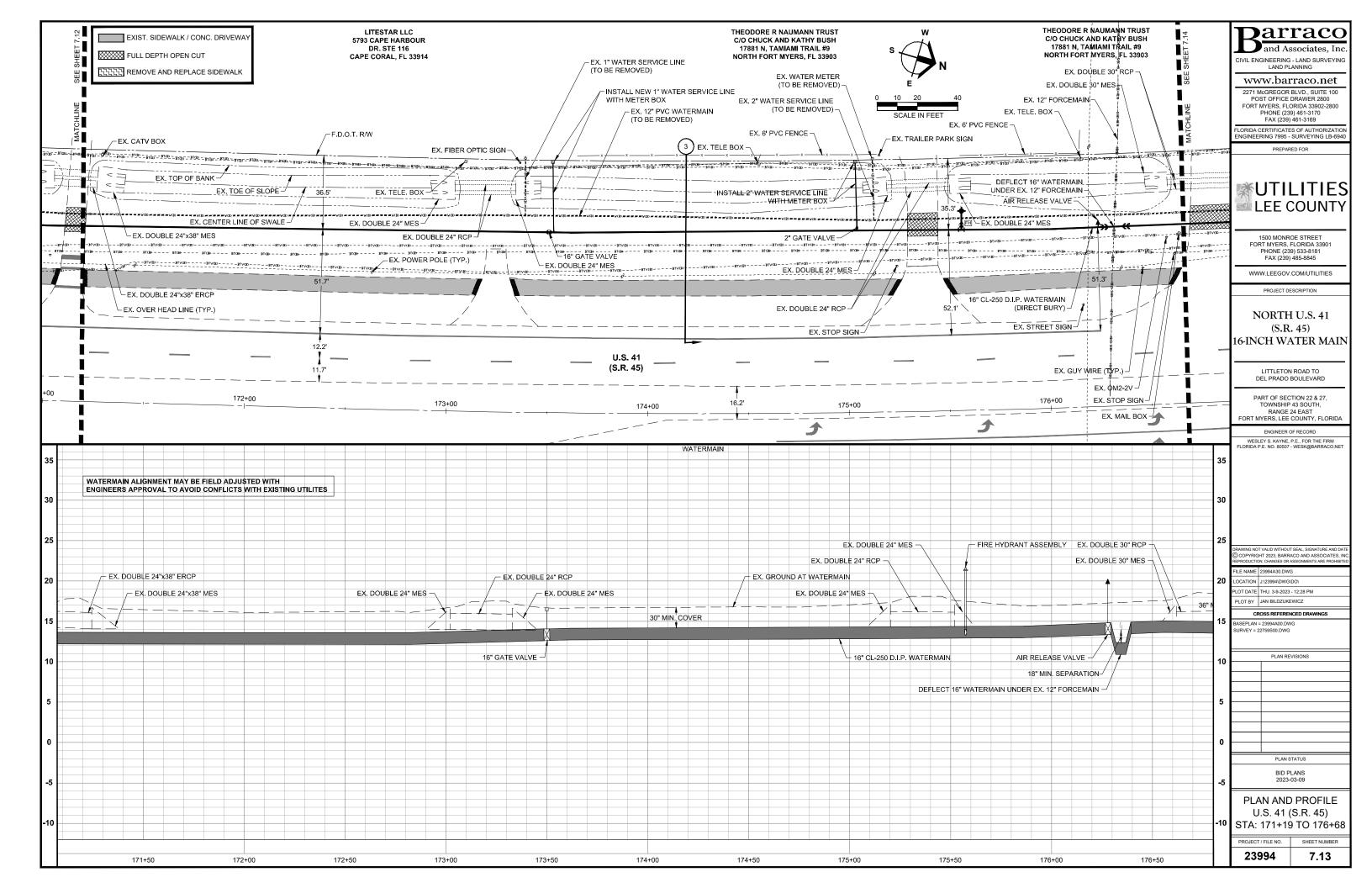


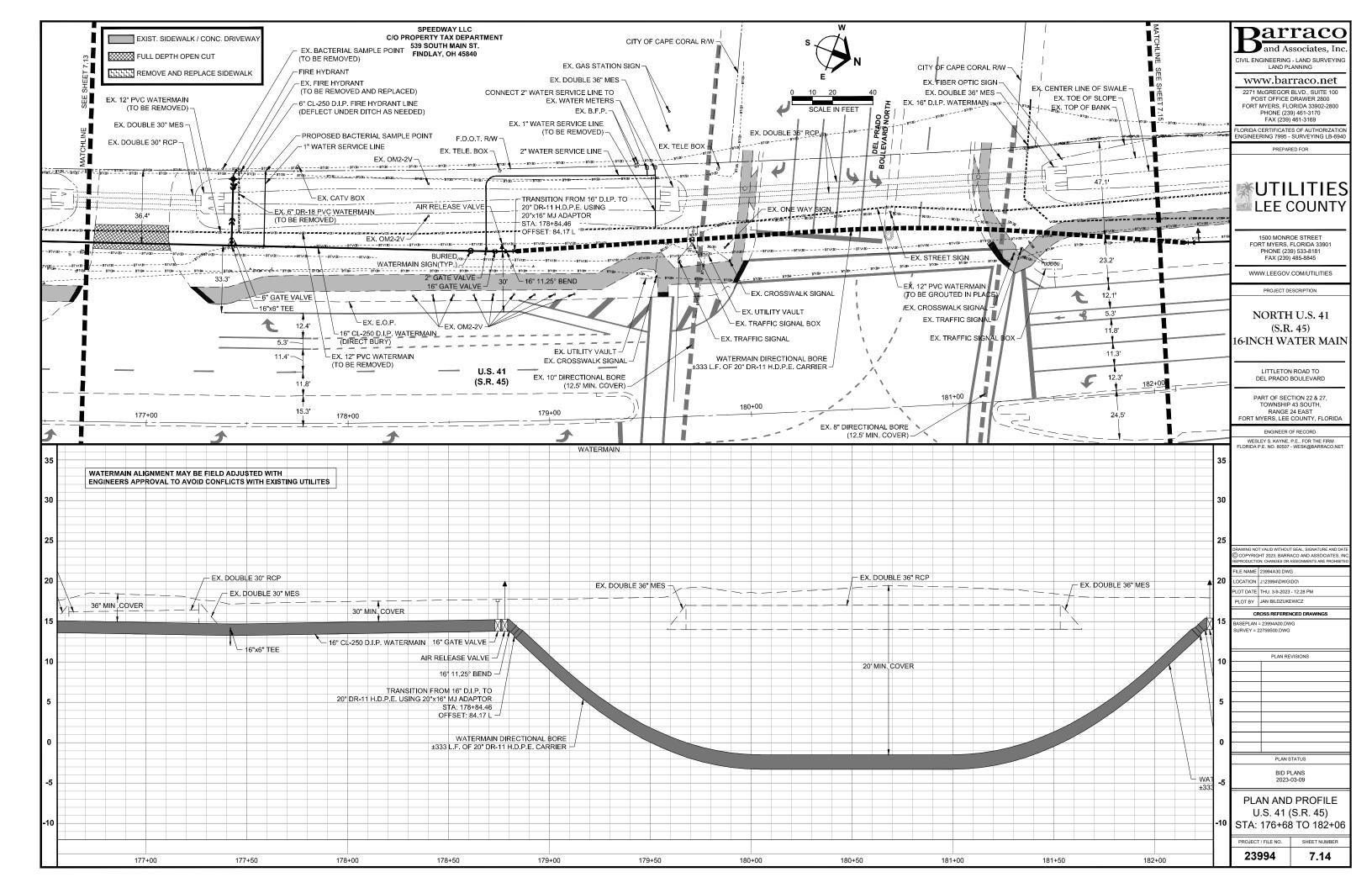


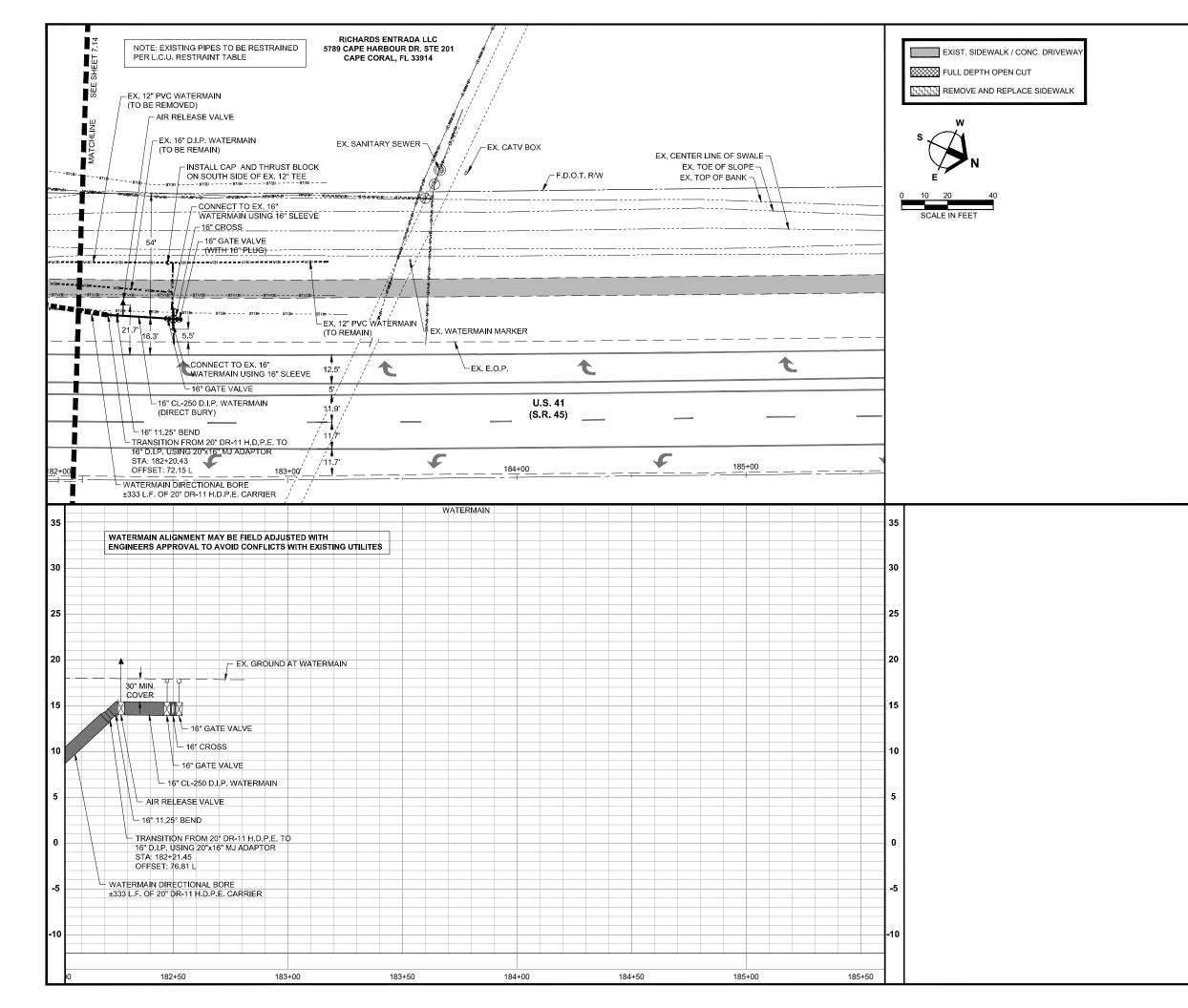


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		MATCHLIN MATCHLIN	ENGINEER	RING 7995 - PREPAF	
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(B) BT(G) BT(G) BT(G) → BT(G) BT(G)		(B BT(B) B→ BT B) BT(B→ BT V(B) BTV(B) - BTV(B) BTV(B) -		PHONE (23 FAX (239)	FLORIDA 33901 9) 533-8181 485-8845 .COM/UTILITIES
				PROJECT DI	ESCRIPTION
25.1' 				(S.R	I U.S. 41 . 45) ATER MAIN
↓		┃ -┠─ ─ ─			N ROAD TO BOULEVARD
165+00 		1 1		TOWNSHIP RANGE	CTION 22 & 27, 43 SOUTH, 24 EAST COUNTY, FLORIDA
				ENGINEER	OF RECORD
		35	WESLI FLORIDA P	EY S. KAYNE, .E. NO. 80507	P.E., FOR THE FIRM - WESK@BARRACO.NET
		30			
		25	C COPYRIGH REPRODUCTION	IT 2023, BARR	T SEAL, SIGNATURE AND DATE ACO AND ASSOCIATES, INC. ASSIGNMENTS ARE PROHIBITED
		20		23994A30.DW J:\23994\DWG	
				THU. 3-9-2023 JAN BILDZUKE	
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			PROJECT		1 TO 165+70 SHEET NUMBER
165+00	165+50		239		7.11

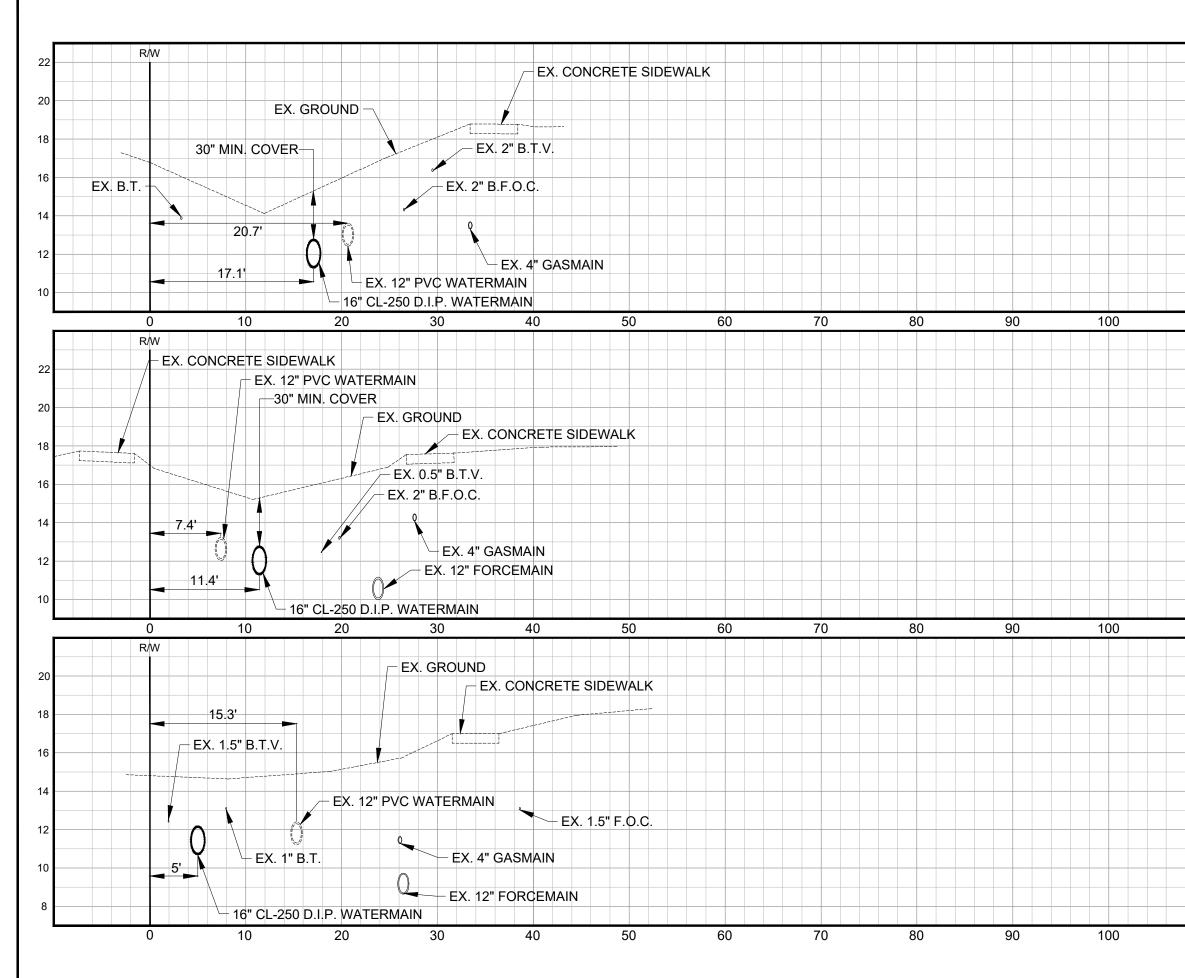


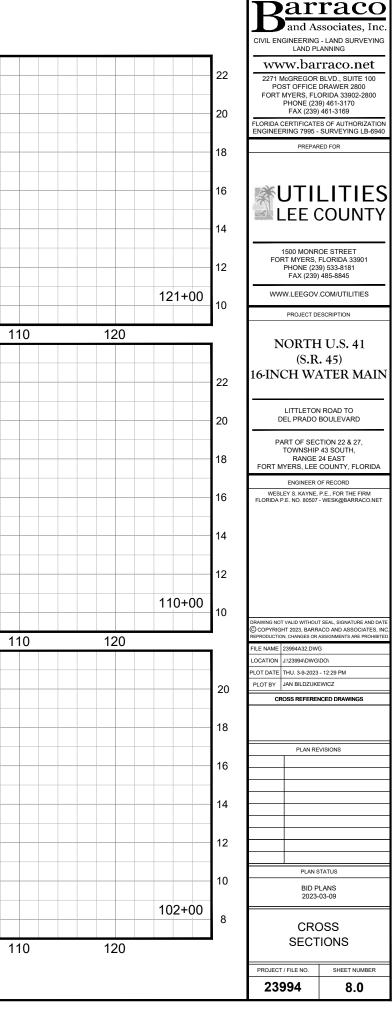


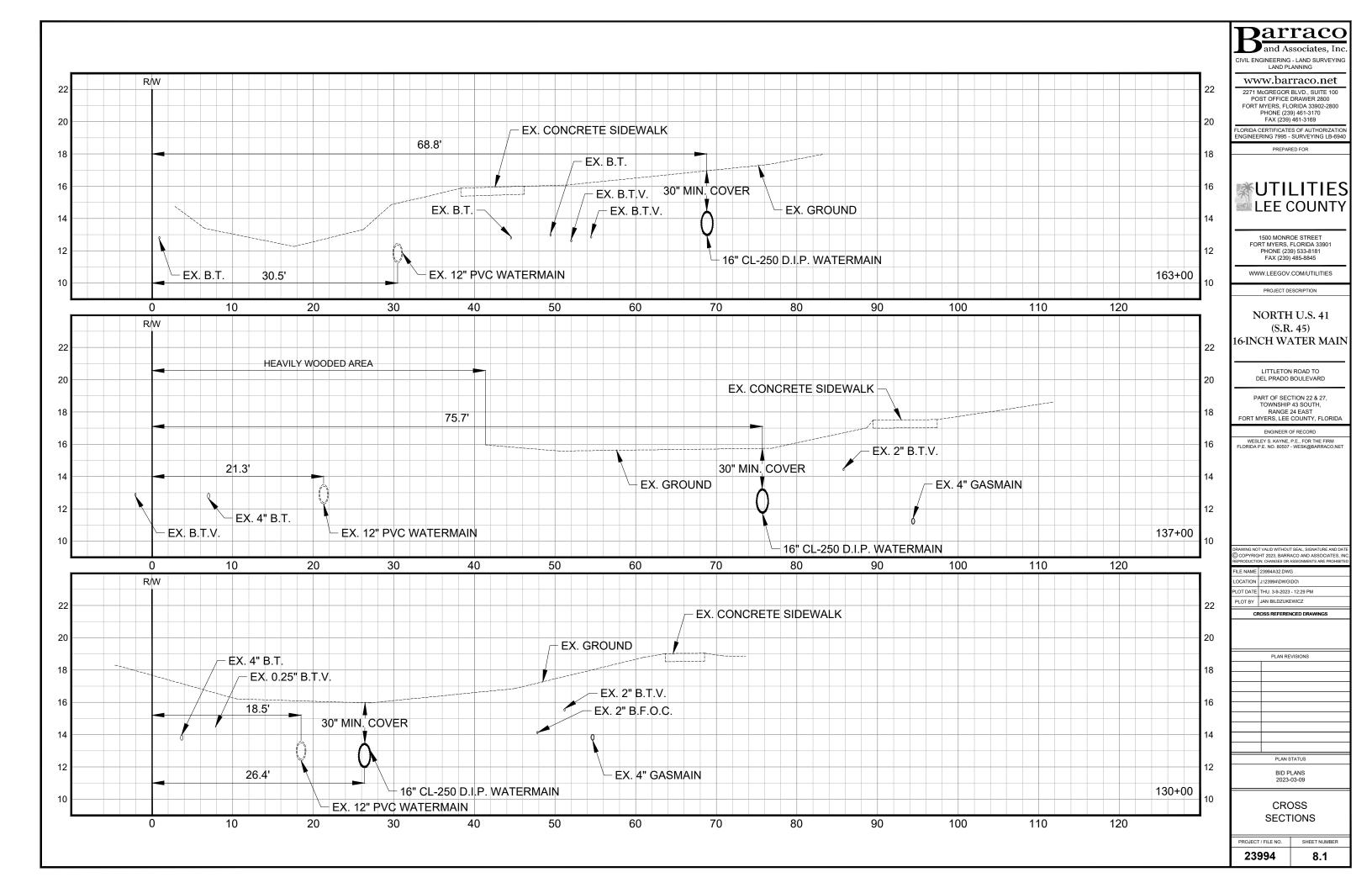


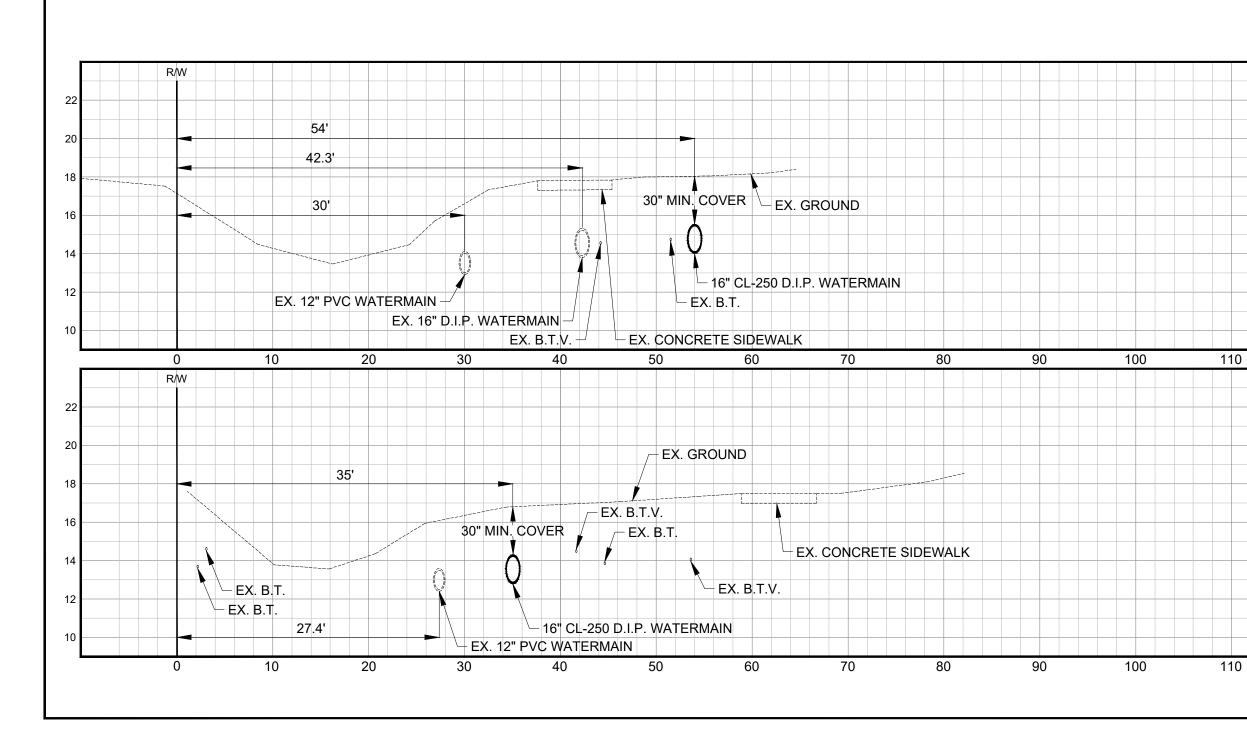


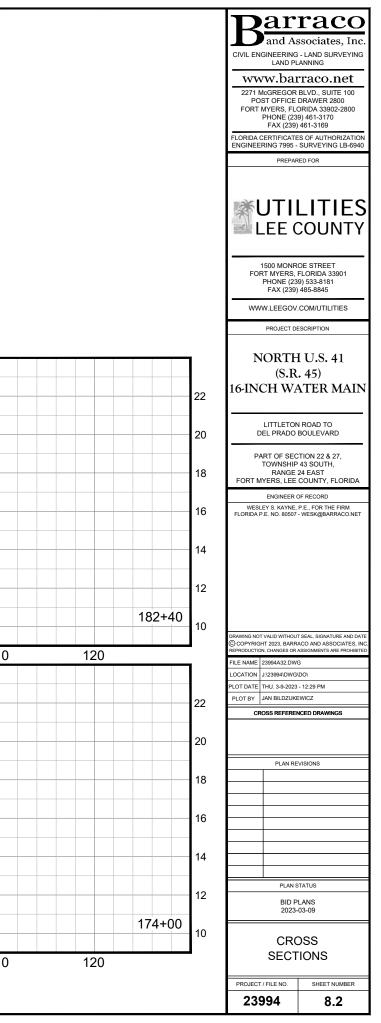
Barraco and Associates, Inc. CIVIL ENGINEERING - LAND SURVEYING				
LAND PLANNING WWW.barraco.net 2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800				
FORT MYERS, FLORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169 FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940				
PREPARED FOR				
UTILITIES LEE COUNTY				
1500 MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239) 533-8181 FAX (239) 485-8845				
WWW.LEEGOV.COM/UTILITIES				
PROJECT DESCRIPTION				
NORTH U.S. 41 (S.R. 45) 16-INCH WATER MAIN				
LITTLETON ROAD TO DEL PRADO BOULEVARD				
PART OF SECTION 22 & 27, TOWNSHIP 43 SOUTH, RANGE 24 EAST FORT MYERS, LEE COUNTY, FLORIDA				
ENGINEER OF RECORD WESLEY S. KAYNE, P.E., FOR THE FIRM FLORIDA P.E. NO. 80507 - WESK@BARRACO.NET				
DRAWING NOT VALID WITHOUT SEAL, SIGNATURE AND DATE © COPYRIGHT 2023, BARRACO AND ASSOCIATES, INC. REPRODUCTION, CHANGES OR ASSIGNMENTS ARE PROHIBITED				
FILE NAME 23994A30.DWG LOCATION J:(23994\DWG\DO\				
PLOT DATE THU. 3-9-2023 - 12:28 PM PLOT BY JAN BILDZUKEWICZ				
CROSS REFERENCED DRAWINGS				
BASEPLAN = 23994A00.DWG SURVEY = 22759S00.DWG				
PLAN REVISIONS				
PLAN STATUS				
BID PLANS 2023-03-09				
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PROJECT / FILE NO. SHEET NUMBER				

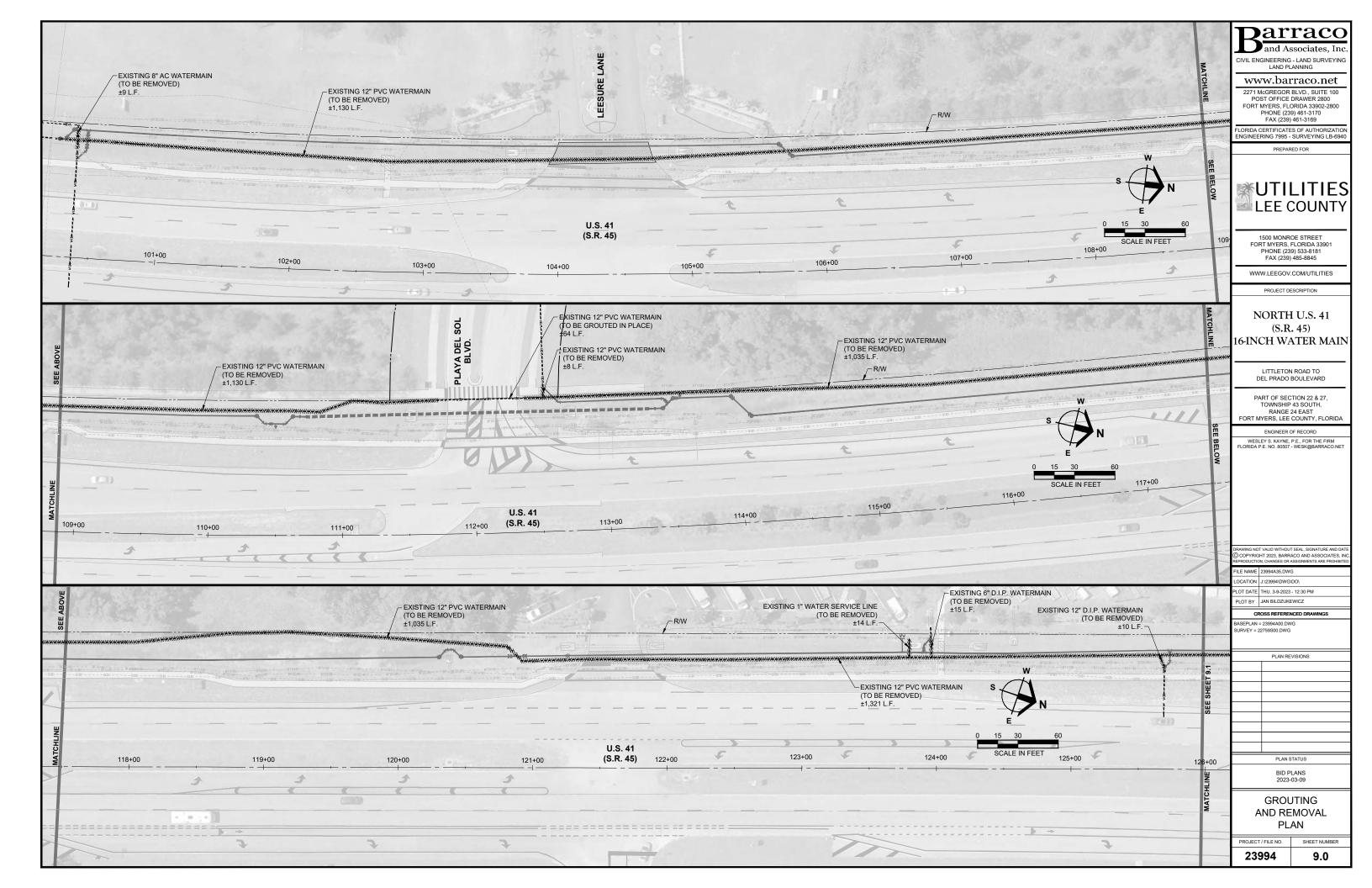


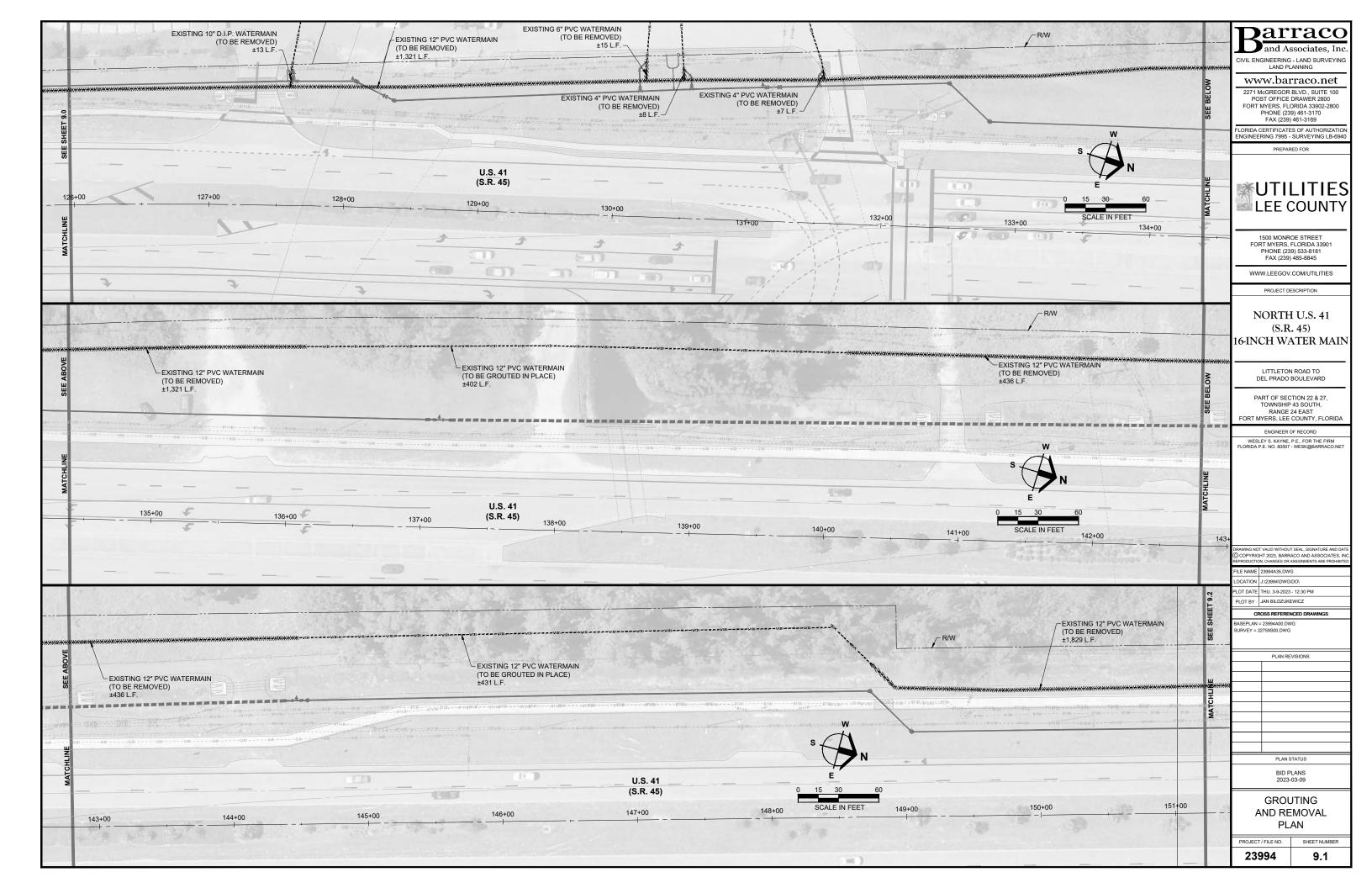




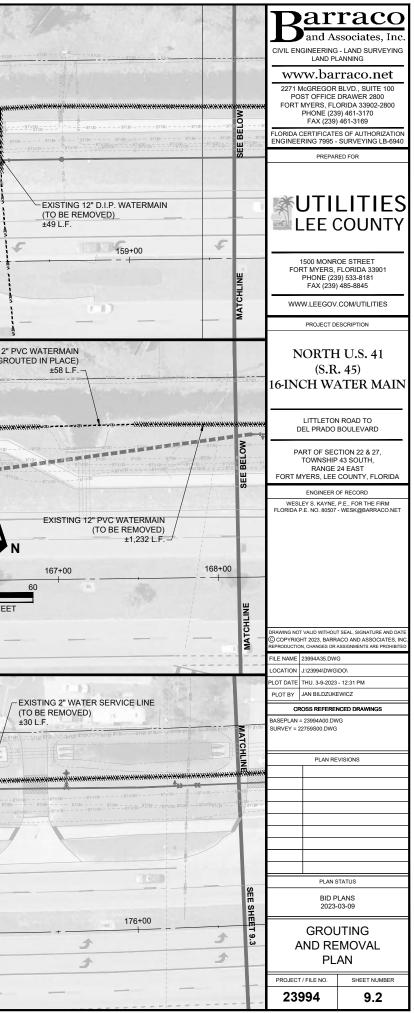






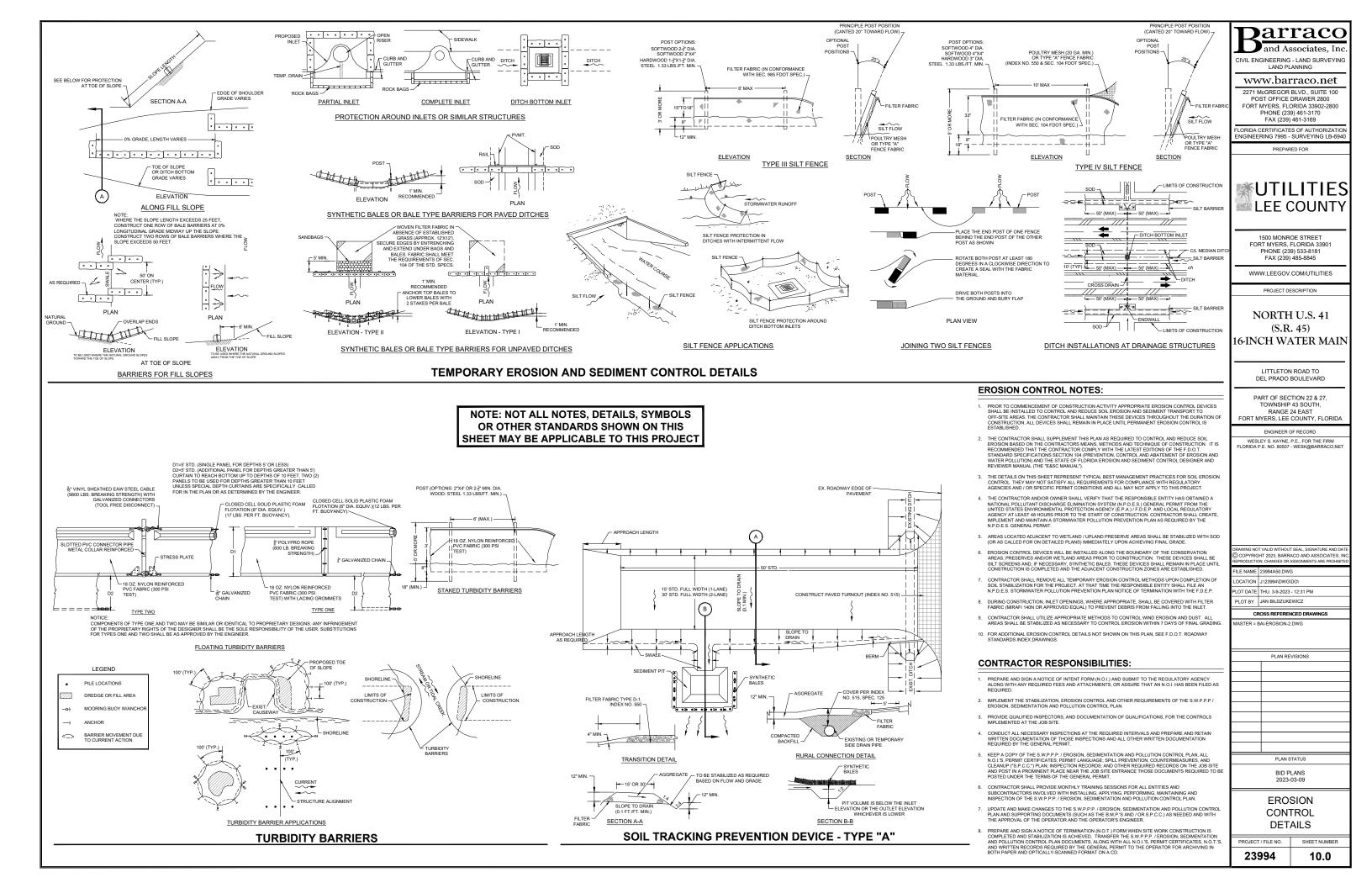


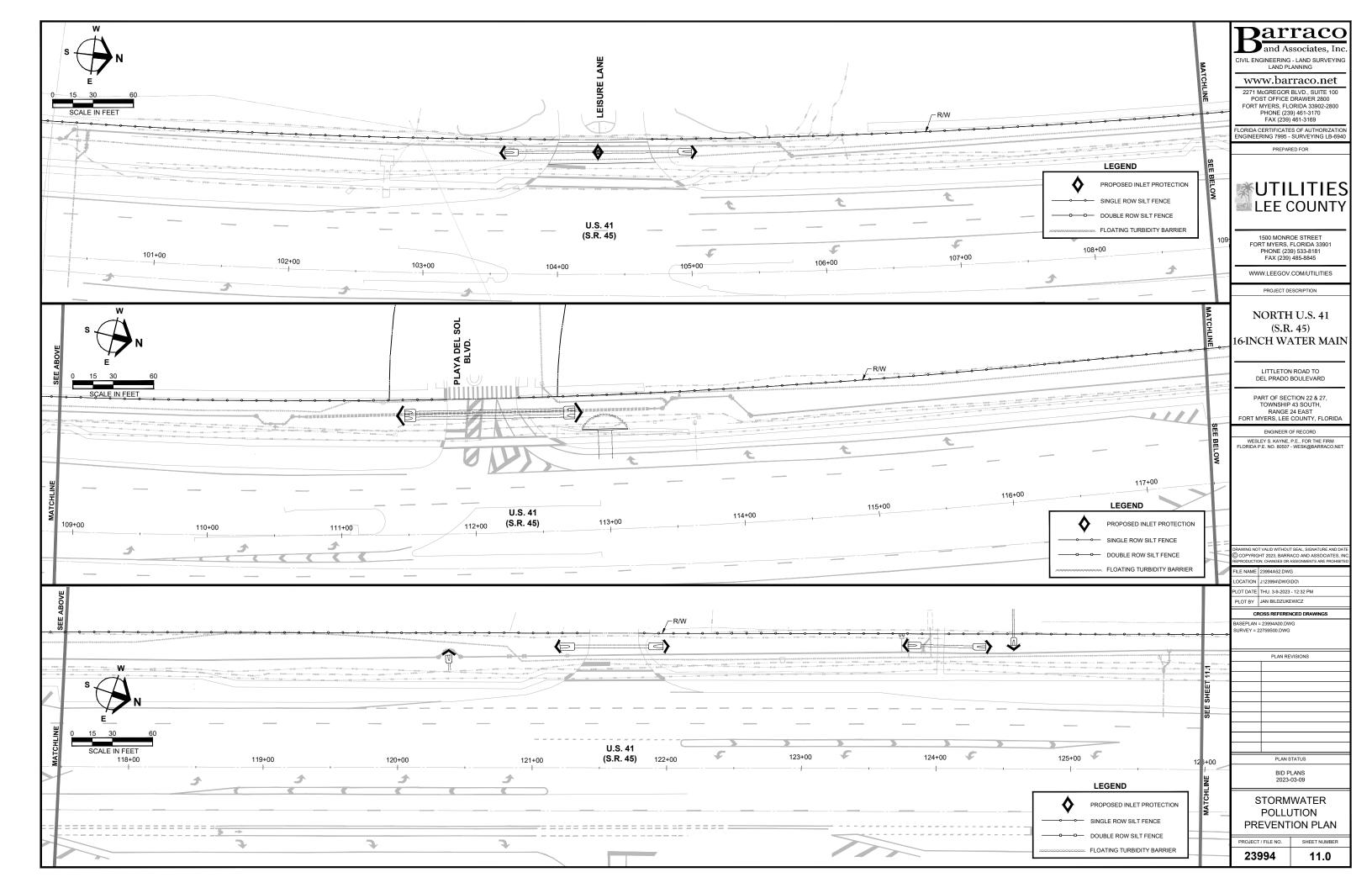
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нар — — — — — — — — — — — — — — — — — — —		TV(B) - BT(B)		
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CHLINE		U.S. 41 (S.R. 45) 		E 5 30 CALE IN F
нининин	R/W R/W R/W R/W R/W R/W R/W R/W	EXISTING 12" PVC WAT (TO BE REMOVED) ±1,232 L.F. area track reported and the second state report	TERMAIN - EXISTING 1" WATER SERVICE LINE (TO BE REMOVED) ±28 L.F.	
		U.S. 41 (S.R. 45)		
00+8i WATCHLINE			SCALE IN FEET 1 174+00 1 5	175+00

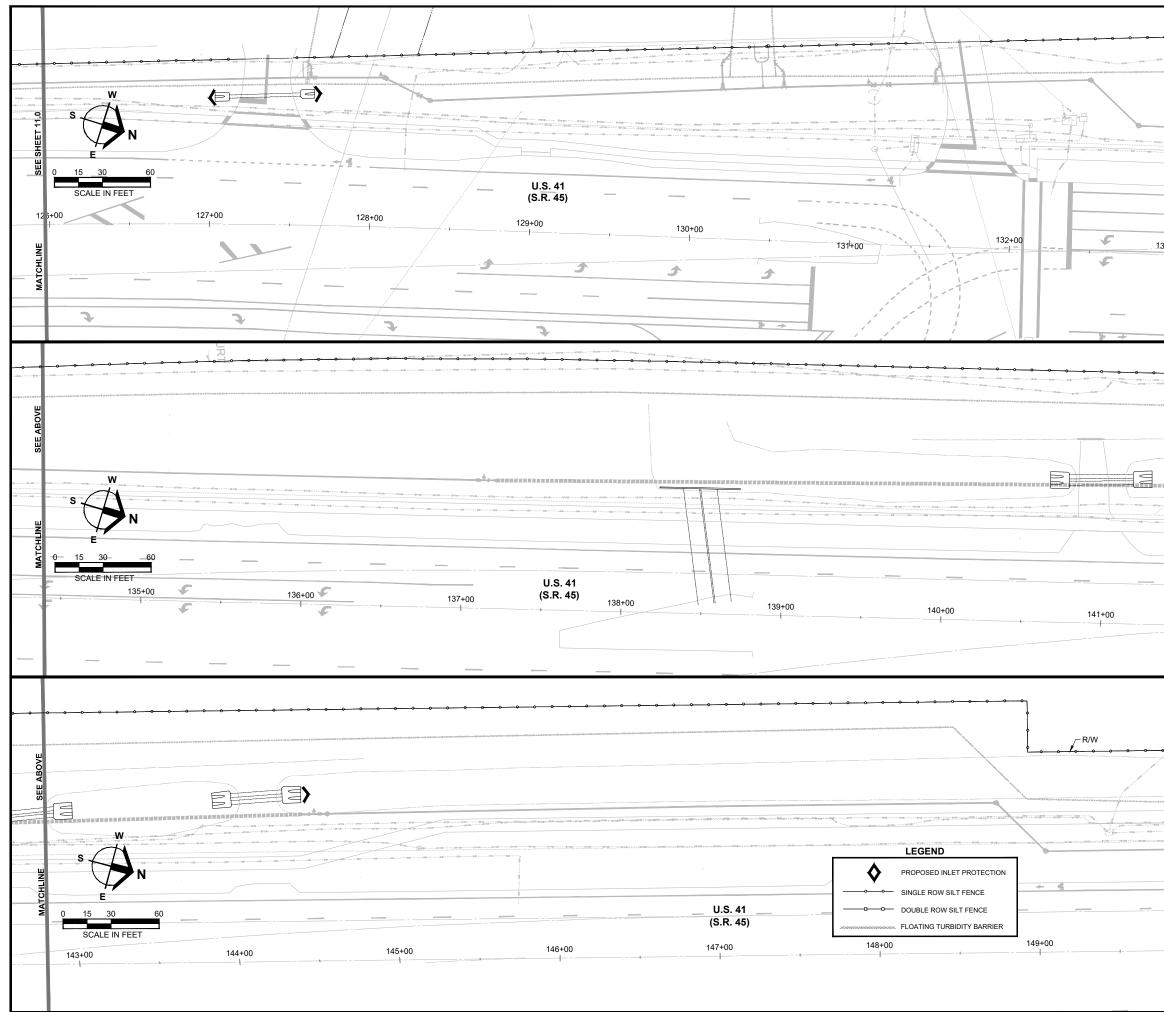


	- EXISTING 6" PVC WATERMAIN (TO BE REMOVED) ±30 L.F.	EXISTING 12" PVC WATERMAIN (TO BE REMOVED) ±1,232 L.F.		EXISTING 12" PVC WATERMAIN (TO BE REMOVED) ±115 L.F. Instance
$_{(B)}$	-FIV(0)		TUDE	
W HD HD HD HD HD HD HD HD HD HD HD HD HD	+ 178+00	U.S. 41 (S.R. 45) 179+00	180+00 181+00 +	182+00 <b>5</b> 183+00 <b>5</b>
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W S E D 15 30 60 SCALE IN FEET	Civil Engineering - LAND Surveying LAND PLANNING WWW.barraco.net POST OFFICE DRAWER 2800 FORT MyERS, FLORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169 FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940
	TILITIES LEE COUNTY
	PHONE (239) 533-8181 FAX (239) 485-8845 WWW.LEEGOV.COM/UTILITIES PROJECT DESCRIPTION
	NORTH U.S. 41 (S.R. 45) 16-INCH WATER MAIN
	LITTLETON ROAD TO DEL PRADO BOULEVARD PART OF SECTION 22 & 27, TOWNSHIP 43 SOUTH, DANGE GAS FACT
	RANGE 24 EAST FORT MYERS, LEE COUNTY, FLORIDA ENGINEER OF RECORD WESLEY S. KAYNE, P.E., FOR THE FIRM FLORIDA P.E. NO. 80507 - WESK@BARRACO.NET
	DRAWING NOT VALID WITHOUT SEAL, SIGNATURE AND DATE © COPYRIGHT 2023, BARRACO AND ASSOCIATES, INC. REPRODUCTION, CHANGES OR ASSIGNMENTS ARE PROHIBITED
	FILE NAME         23994A35.DWG           LOCATION         J:\23994\DWG\DO\
	PLOT DATE THU. 3-9-2023 - 12:31 PM PLOT BY JAN BILDZUKEWICZ
	CROSS REFERENCED DRAWINGS
	BASEPLAN = 23994A00.DWG SURVEY = 22759S00.DWG
	PLAN REVISIONS
	PLAN STATUS
	BID PLANS 2023-03-09
	GROUTING AND REMOVAL PLAN
	PROJECT / FILE NO. SHEET NUMBER
	23994 9.3

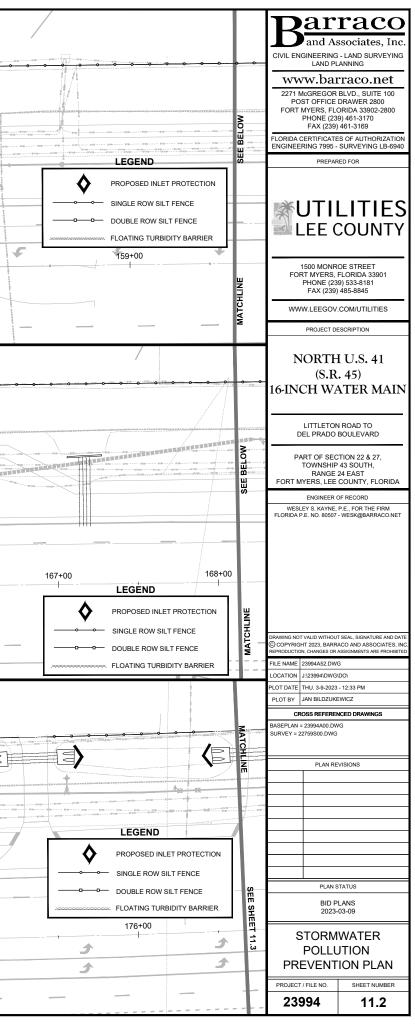


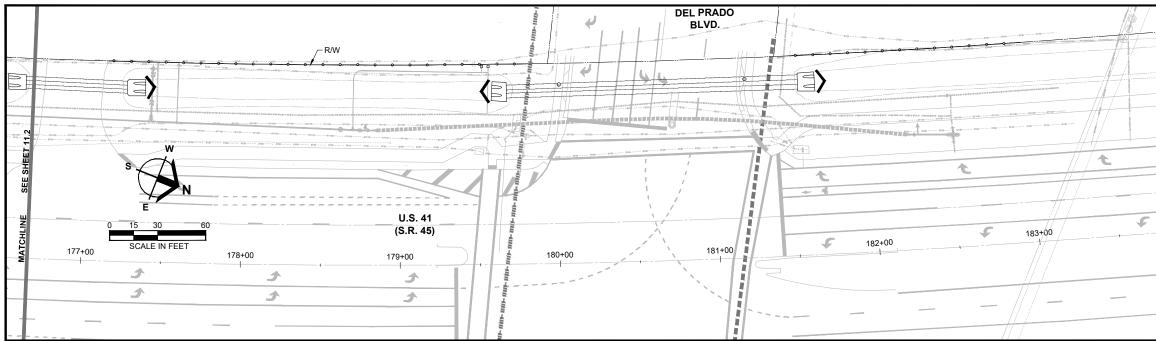




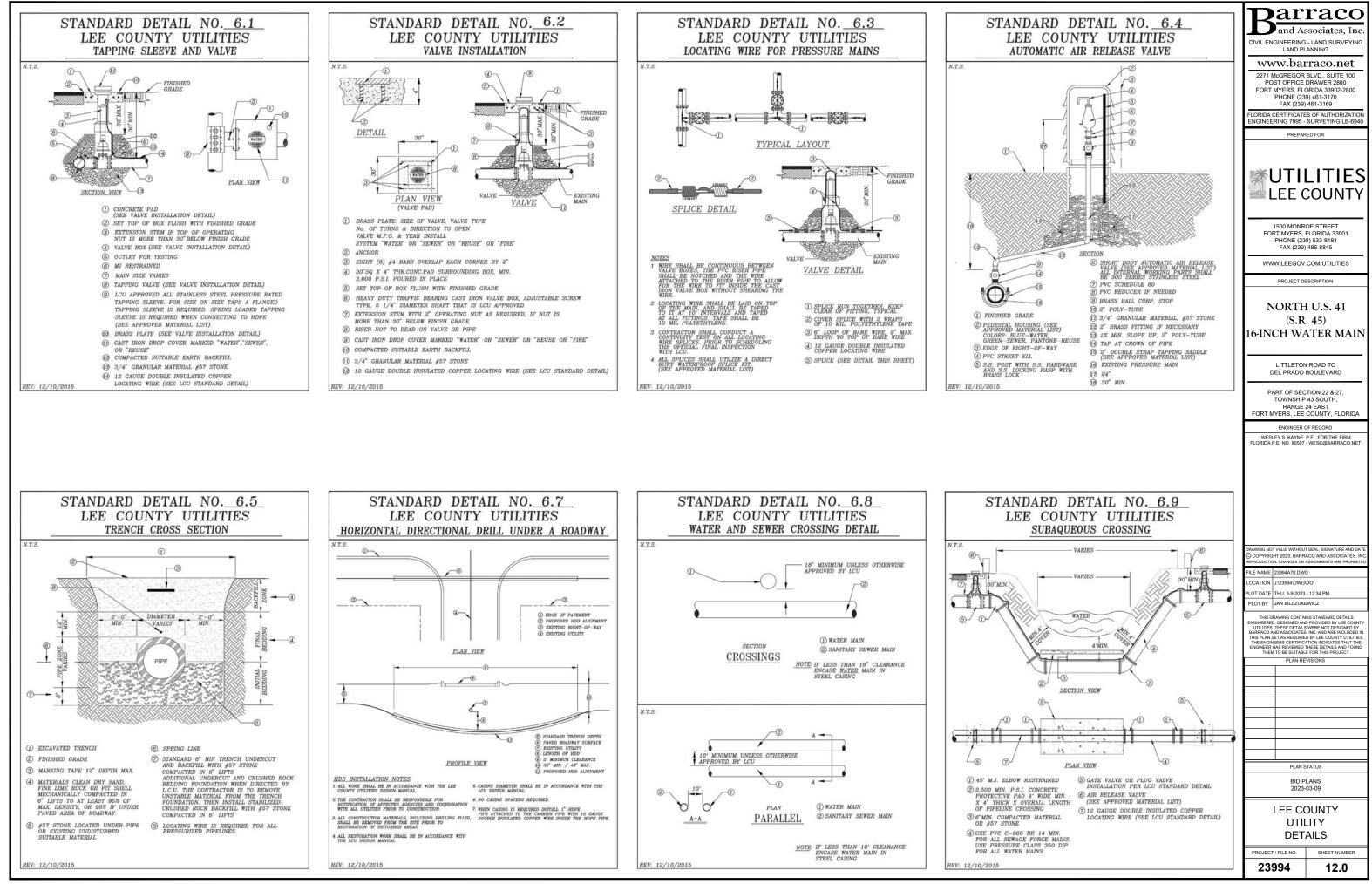
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	PROTECTION	SEE BELOM	CIVIL EN CIVIL EN 22711 PC FORT	and As GINEERING LAND PL WW.ban MCGREGOR ST OFFICE MYERS, FLC PHONE (23 FAX (239) CERTIFICATE	Traco.net BLVD., SUITE 100 DRAWER 2800 PRIDA 33902-2800 9) 461-3150 461-3159 SOF AUTHORIZATION SURVEYING LB-6940
SINGLE ROW SILT     DOUBLE ROW SILT     DOUBLE ROW SILT     SINGLE ROW SIT     SINGLE ROW SILT     SINGLE ROW SILT     SI	TFENCE	MATCHLINE	FO	1500 MONR RT MYERS,   PHONE (23 FAX (239)	485-8845 COM/UTILITIES
- R/W	• • • • • • • • • • • • • • • • • • •	••••••••••••••••••••••••••••••••••••••	16-IN	(S.R CH WA	ATER MAIN
LEGEND PROPOSED INLET SINGLE ROW SILT	PROTECTION FENCE		FORT M	TOWNSHIP RANGE IYERS, LEE ENGINEER ( LEY S. KAYNE,	43 SOUTH, 24 EAST COUNTY, FLORIDA
Comparison of the second seco		143+	© COPYRIG REPRODUCTIO FILE NAME LOCATION	HT 2023, BARR	DO\
		SEE SHEET 11.2	BASEPLAN	JAN BILDZUKE XOSS REFEREN = 23994A00.DW 22759S00.DWG PLAN RE	ICED DRAWINGS
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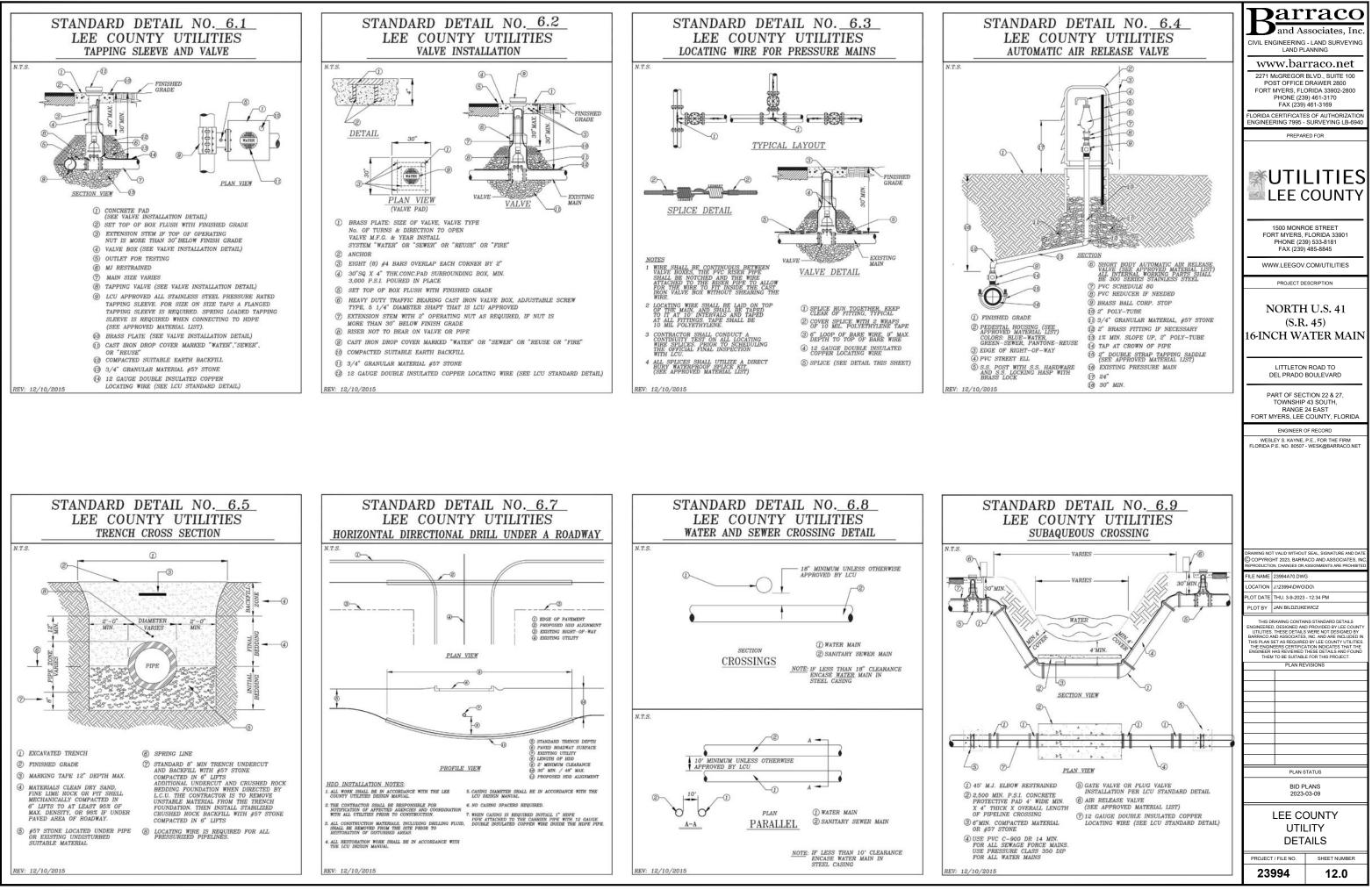
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00 0	15 30 60 SCALE IN FEET	153+00	154+00	155+00	156+00	157+00	158+00
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	W 100 000 000 000 000 000 000 000 000 00				U.S. 41 (S.R. 45)		
2 	SCALE IN FEET 169+00	170+00 	171+00	172+00	(S.R. 45)	174+00	175+00 5 5





LEGEND         PROPOSED INLET PROTECTION         SINGLE ROW SILT FENCE         DOUBLE ROW SILT FENCE         FLOATING TURBIDITY BARRIER         184+00         185+00	Barraco Barraco and Associates, Inc. Civil Engineering - LAND SURVEYING LAND PLANNING WWW.barraco.net 2271 McGREGOR BLVD, SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS, FLORIDA 33902-2800 PHONE (239) 461-3150 FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940 PREPARED FOR
-	DRAWING NOT VALD WITHOUT SEAL. SIGNATURE AND DATE © COPYRGNT 2023, BARRACO AND ASSOCIATES, NO REPRODUCTION, CHANGES OR ASSIGNMENTS ARE PROHIBITED FLE NAME 23994A52.DWG LOCATION J:23994/DWGIDO\ PLOT DATE THU 3-9-2023 - 12:33 PM PLOT BY JAN BILDZUKEWICZ OROSS REFERENCED DRAWINGS BASEPLAN = 23994A00.DWG SURVEY = 22759500.DWG PLAN REVISIONS PLAN REVISIONS PLAN STATUS BID PLANS SURVEY = 2000 PLAN STATUS BID PLANS SURVEY = 2000 STORMWATER POLLUTION PROJECT / FILE NO. SHEET NUMBER 239944 11.3







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81

30

ow what's below Call before you

E

R

15"

1.1

8

N E

42"

Ground Line

60'

All materials shall be provided by Rhino Marking and Protection Systems Inc., as listed or approved equivalent by the engineer

# **Physical Description:**

The marker post shall be triangular in shape, with each side a minimum of 3" wide. Cap with contrasting color to be fused to top, TriGrip anchor integrated into the bottom of each post. Overall length determined by specific application. The terminal board has the industry standard 11 terminals that are all individually numbered and spaced 1" on center, allowing for easy use of shunts.

# Performance:

Marker post shall be UV stable and capable of withstanding direct sunlight for at least 10 years without cracking or significant fading. Post installed via direct bury will withstand impacts at speeds of up to 60 mph and return to standing.

Post shall be corona or flame treated prior to decal installation to ensure maximum adhesion. Decals shall not significantly fade, crack, or curl for at least 10 years.

# Installation:

Post shall be installed via direct bury. Hole must be at least 6" in diameter and 18" deep. Anchor flaps to be extended and soil compacted to complete installation.

