

UTILITY PERMIT

PERMIT NO: 2022-H-192-00135

STATE ROAD INFORMATION

County: Lee	Section: 12220000	State Road No: 41	Beginning Mile Post: 28.109	Ending Mile Post: 29.992
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

Utility Agency/Owner (UAO)
Name: Lee County Utilities
Contact Person: Lee County Utilities
Address: 1500 Monroe Street, 3rd Floor
City: Fort Myers
State: Florida
Zip: 33901
Telephone: 2395338181
Email: NBeals@leegov.com

Utility Builder (only applicable when the UAO is a City or County)
Name: _____
Contact Person: _____
Address: _____
City: _____
State: _____
Zip: _____
Telephone: _____
Email: _____

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

Construction of approx 8,100 LF of 16" minimum inside diameter watermain on North US 41 btween Littelton Road and Del Prado Blvd.

Utility Work No: _____

Additional sheets are attached and are incorporated into this permit Yes ☐ No ☒

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes ☐ No ☐

TRAFFIC CONTROL (TCP)

☒ The TCP will comply with the following 600 series index(es) 611, 605

☐ A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: _____ Telephone: _____ Email: _____

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 2/1/2023

Calendar days needed to completed: 10

Approved
2022-H-192-00135
Harris Giddens
6/22/2022

UTILITY PERMIT**PERMIT NO:** 2022-H-192-00135**APPLICANT SIGNATURE**

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:	Name of other facility owners (attach additional sheets if necessary).
<u>1/12/2022</u>	<u>CentruyLink</u>
<u>1/12/2022</u>	<u>Comcast</u>
<u>1/12/2022</u>	<u>FGUA</u>
<u>1/12/2022</u>	<u>LCEC</u>
<u>1/12/2022</u>	<u>NFMFD</u>

Utility Agency/Owner

Utility Builder (when applicable)

Signature: ASHLEY BUTLER (digital signature) Date: 5/6/2022
 Name (printed): ASHLEY BUTLER
 Title: _____

Signature: _____ Date: _____
 Name (printed): _____
 Title: _____

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:

There are NO FDOT constructions (proposed or underway).
This work is NOT related to an approved utility work Schedule.

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

1.) Your project falls within the limits of the Lee County Advanced Traffic Management System (ATMS). The Lee County ATMS is owned by the FDOT while the County operates and maintains the system as part of the Traffic Signal Maintenance and Compensation Agreement. The ATMS infrastructure within this project's limits includes underground fiber optic communication infrastructure along US 41. I have attached the as-built plans to this comment for your inform ... (see special instructions cont. page)

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes ☐ No ☒

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and/or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Harris Giddens (digital signature) Date: 6/22/2022
 Name: Harris Giddens
 Title: Consultant Staff

Notification of Utility Work to be provided to: Telephone (239) 985-7875 ext. _____ or Email: james.deemer@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes ☒ No ☐

Rep. Name: James Deemer Telephone 2399857875 Email: james.deemer@dot.state.fl.us

2022-H-192-00135
 Harris Giddens
 6/22/2022

Florida Department of Transportation
UTILITY PERMIT

December 14, 2016

PERMIT NO: 2022-H-192-00135

CERTIFICATION

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on _____ and was completed on _____ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: _____ Date _____

Signature: _____ Date _____

Name (printed): _____

Name (printed): _____

Title: _____

Title: _____

FINAL INSPECTION OF WORK

☐ The work was inspected and found to be in non-compliance as noted below:

☐ All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: _____ Date: _____

Name: _____

Title: _____

Approved
2022-H-192-00135
Harris Giddens
6/22/2022

PERMIT NO.: 2022-H-192-00135

STATE ROAD INFORMATION:

NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:

Facility Name: TECO, Date Notified: 1/12/2022

FDOT PROJECT INFORMATION:

There are NO FDOT constructions (proposed or underway).
This work is NOT related to an approved Utility Work Schedule.

THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:

Approved
2022-H-192-00135
Harris Giddens
6/22/2022

The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

Special FDOT Instructions

- 1.) Your project falls within the limits of the Lee County Advanced Traffic Management System (ATMS). The Lee County ATMS is owned by the FDOT while the County operates and maintains the system as part of the Traffic Signal Maintenance and Compensation Agreement. The ATMS infrastructure within this project's limits includes underground fiber optic communication infrastructure along US 41. I have attached the as-built plans to this comment for your information.
- 2.) Based on the permit plans, it appears this project will be installing underground infrastructure near the existing ATMS infrastructure. It is the responsibility of this project's contractor to avoid conflicts with the existing underground ATMS infrastructure by, at minimum, locating the facilities prior to installing the new underground infrastructure. Any impacts to the existing ATMS infrastructure that were not identified in this review are the responsibility of the permittee to resolve within this project.
- 3.) No lane closure between 6:00 am – 7:00 pm
- 4.) The Permittee must schedule an FDOT inspector James Deemer (239)240-9847 to be on-site at least 2 business days in advance before starting a directional bore.
- 5.) All Air Release Valves must have a offset of 30 feet from the edge of pavement.

Approved
2022-H-192-00135
Harris Giddens
6/22/2022

WATERMAIN CONSTRUCTION PLANS
FOR

NORTH U.S. 41 16-INCH WATER MAIN
(LITTLETON ROAD TO DEL PRADO BOULEVARD)
100% SUBMITTAL

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

LEE COUNTY COMMISSIONERS

DISTRICT 1. KEVIN RUANE
DISTRICT 2. CECIL PENDERGRASS
DISTRICT 3. RAY SANDELLI
DISTRICT 4. BRIAN HAMMAN
DISTRICT 5. FRANK MANN

COUNTY MANAGER

ROGER DESJARLAIS

DIRECTOR OF PUBLIC WORKS

MICHAEL SISTRUNK

DIRECTOR OF UTILITIES

PAMELA KEYES, P.E.

PERMIT REQUIREMENTS

AGENCY	STATUS	NOTES
LEE COUNTY DEVELOPMENT ORDER	PENDING	-
FLORIDA DEPARTMENT OF HEALTH	PENDING	-
FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION	PENDING	-
F.D.O.T. UTILITY CONNECTION PERMIT	PENDING	-
F.D.E.P. NOTICE OF INTENT	PENDING	-

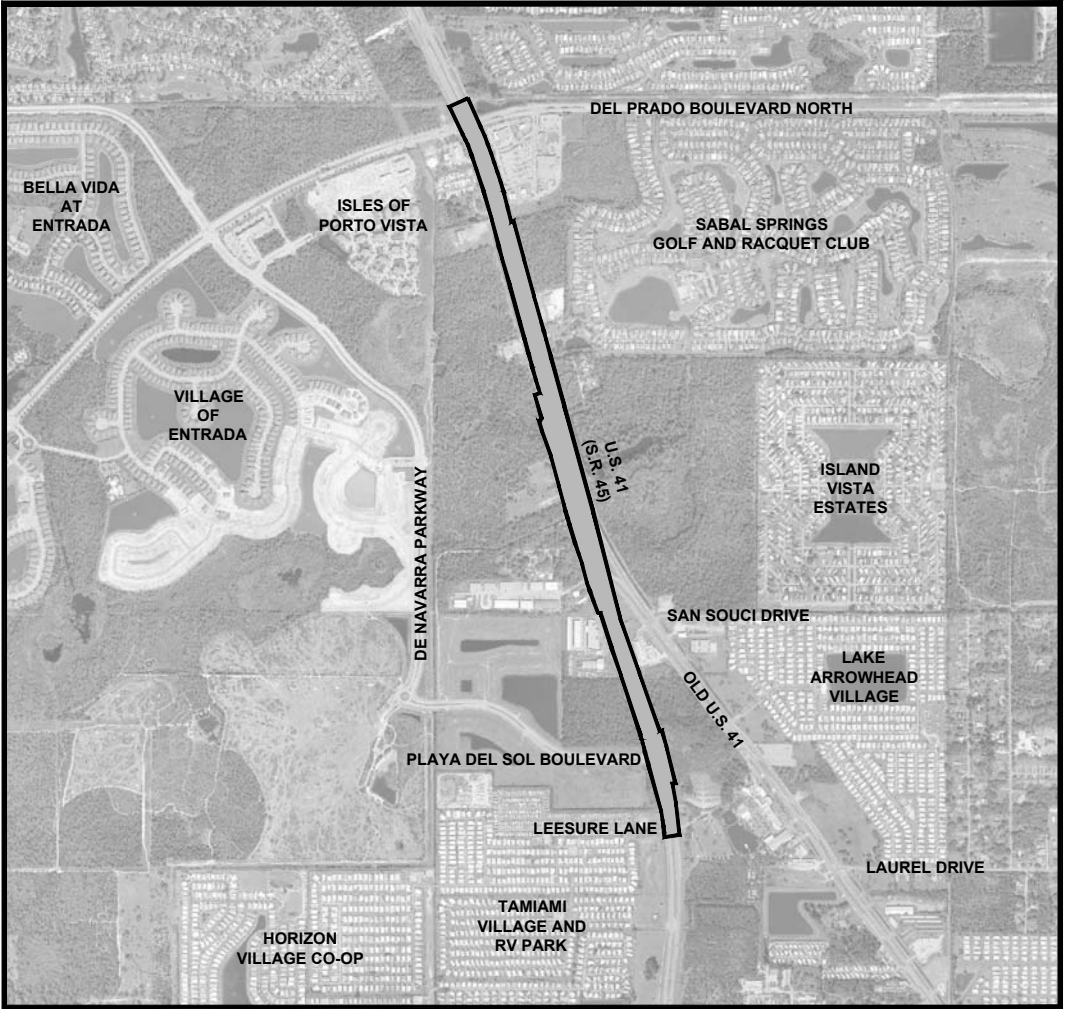
NOTE: CONTRACTOR MUST OBTAIN AND KEEP ON FILE A COPY OF ALL PERMITS
REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY

DESIGN TEAM

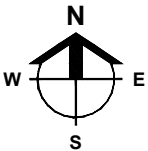
PROJECT ENGINEER	PROJECT MANAGEMENT
WESLEY S. KAYNE, P.E.	DOUG TARN
DESIGN ENGINEER	PROJECT SURVEYOR
WESLEY S. KAYNE, P.E.	SCOTT A. WHEELER, P.S.M.
LEAD DESIGN TECHNICIAN	SITE PLANNING
JAN BILDZUKIEWICZ	N/A
DESIGN STAFF	LAND PLANNING
JAN BILDZUKIEWICZ	N/A
QUALITY CONTROL	RECORD DRAWINGS
DOUG TARN	PENDING

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

ALL DIMENSIONS ARE IN FEET.



PROJECT
LOCATION



LOCATION MAP



INDEX OF DRAWINGS

ENGINEER OF RECORDS SIGNATURE AND SEAL APPLY TO THE FOLLOWING PLAN SHEETS, EXCLUDING ANY SUPPLEMENTS:

SHEET	DESCRIPTION	DRAWING NAME
1.0	COVER SHEET AND LOCATION MAP	23994A01.DWG
2.0	STANDARD NOTES	23994A02.DWG
3.0	L.C.U. NOTES	23994A03.DWG
4.0	AERIAL PHOTOGRAPH AND EXISTING CONDITIONS PLAN	23994A06.DWG
5.0	MASTER UTILITY PLAN, KEY SHEET, AND NOTES	23994A12.DWG
6.0	TYPICAL SECTIONS AND DETAILS	23994A18.DWG
7.0-7.15	PLAN AND PROFILE - U.S. 41 (S.R. 45)	23994A30.DWG
8.0-8.2	CROSS SECTIONS	23994A32.DWG
9.0-9.3	GROUTING AND REMOVAL PLAN	23994A35.DWG
10.0	EROSION CONTROL PLAN	23994A50.DWG
11.0-11.3	STORMWATER POLLUTION PREVENTION PLAN	23994A52.DWG
12.0-12.1	LEE COUNTY UTILITY DETAILS	23994A70.DWG

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL
COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING
DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:

WESLEY S. KAYNE, P.E. FL. P.E. LICENSE NO. 80507 DATE
ENGINEER OF RECORD

DEVELOPMENT ORDER APPROVED:
PUBLIC WORKS ADMINISTRATION

MICHAEL SISTRUNK DATE
DIRECTOR OF PUBLIC WORKS

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

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

This item has been digitally signed and sealed by
Wesley S. Kayne on the date adjacent to the seal.

Printed copies of this document are not considered signed
and sealed and signature must be verified on any electronic
copies.

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FILE NAME	23994A01.DWG
LOCATION	J:\23994\DWG\DOI
PLOT DATE	TUE. 6-21-2022 - 9:43 AM
PLOT BY	JAN BILDZUKIEWICZ

CROSS REFERENCED DRAWINGS

MASTER = BAI-COVER-1.DWG

PLAN REVISIONS

NO.	DESCRIPTION

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

COVER SHEET
AND
LOCATION MAP

PROJECT / FILE NO.	SHEET NUMBER
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.

1.

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.
2.

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.
4.

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.).
5.

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.
6.

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.
9.

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 COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) RIGHT-OF-WAYS ONLY. FOR WORK WITHIN F.D.O.T. RIGHT-OF-WAYS REFER TO F.D.O.T. PERMIT.

1.

MAINTENANCE OF TRAFFIC (M.O.T.) PLANS ARE REQUIRED TO BE SUBMITTED BY THE CONTRACTOR FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THIS PLAN SHOULD BE SUBMITTED AND APPROVED BY THE L.C.D.O.T. AT LEAST 14 DAYS PRIOR TO MOBILIZATION. M.O.T. PLANS SHALL INCLUDE, BUT NOT LIMITED TO, DETAILS OF ALLOWED LANE CLOSURES, PEDESTRIAN ACCESS CLOSURES, AND HOURS OF OPERATION.

2.

ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF DURING CONSTRUCTION ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE L.C.D.O.T. A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. IF DURING CONSTRUCTION ROAD CLOSURES ARE REQUIRED AND APPROVED BY LEE COUNTY, THE CONTRACTOR SHALL NOTIFY THE L.C.D.O.T. A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.

3.

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, OR AS DIRECTED BY THE L.C.D.O.T., SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC PATTERN OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.

4.

THE CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FOR ALL LANE CLOSURES WITHIN LEE COUNTY RIGHT-OF-WAYS WITH L.C.D.O.T. A MINIMUM OF 14 DAYS PRIOR TO THE REQUIRED CLOSINGS.

SIGNING AND PAVEMENT MARKING NOTES:

1.

ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, THE F.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.

2.

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 TRAFFIC CONTROL DEVICES" AND WITH ALL OTHER GOVERNING SAFETY REGULATIONS.

3.

PAVEMENT MARKINGS SHALL BE PERMANENT REFLECTIVE TRAFFIC PAINT WITH GLASS BEADS IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS SECTION 710 UNLESS NOTED OTHERWISE. PERMANENT PAVEMENT MARKINGS WITHIN F.D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.

4.

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

5.

ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR. AS AN ALTERNATIVE, ROADS WITH PAVER BRICK SURFACES MAY UTILIZE CONTRASTING COLOR PAVERS IN LIEU OF PAINT.

6.

THE CONTRACTOR SHALL FURNISH AND INSTALL STREET NAME SIGNS IN ACCORDANCE WITH LOCAL DEVELOPMENT STANDARDS. IF POSSIBLE, STREET NAME SIGNAGE TO BE ATOP ALL STOP SIGNS.

7.

THE CONTRACTOR SHALL PROVIDE AND INSTALL BLUE / BLUE REFLECTIVE PAVEMENT MARKERS AT THE CENTER OF THE TRAFFIC LANE NEAREST ALL PROPOSED FIRE HYDRANTS.

8.

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 UNLESS A DETAILED BID QUANTITY BREAKDOWN IS PROVIDED.

9.

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 THE CONTRACTOR.

10.

ALL SIGNS THAT ARE EMBEDDED IN CONCRETE OR ASPHALT SHALL BE INSTALLED IN A F.D.O.T. APPROVED PIPE SLEEVE.

QUANTITIES AND PAYMENT:

1.

CONTRACTOR SHALL REFER TO THE PROJECT SPECIFIC CONTRACT DOCUMENTS WHICH INCLUDE THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS.

2.

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 LENGTHS.

NOTE:
EXISTING UTILITIES DEPICTED ARE BASED UPON SUBSURFACE UTILITY ENGINEERING SERVICES QL-B AND QL-A PROVIDED BY AIM ENGINEERING & SURVEYING, INC. DATED 2022-02-11

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LAND PLANNING

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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

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FILE NAMEJ:23994A02.DWG

LOCATIONJ:\23994\DWG\DOI

PLOT DATETUE. 6-21-2022 - 9:44 AM

PLOT BYJAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

PROJECT / FILE NO.23994

SHEET NUMBER2.0

Approved

2022-06-21

Harris Giddens

6/23/2022

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](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.
18.

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.

26.

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.

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CIVIL ENGINEERING - LAND SURVEYING
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FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

 **UTILITIES**
LEE COUNTY

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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

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FILE NAME	J:\23994\DWG\DWG
LOCATION	J:\23994\DWG\DWG
PLOT DATE	TUE. 6-21-2022 - 9:44 AM
PLOT BY	JAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

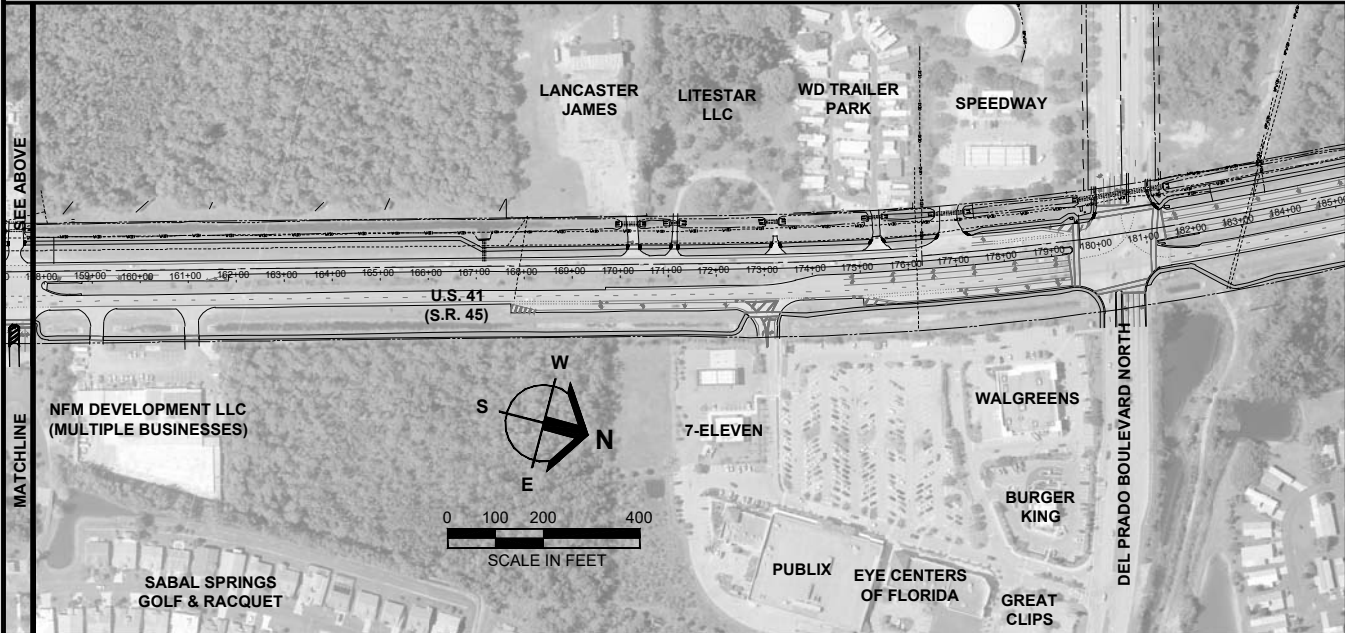
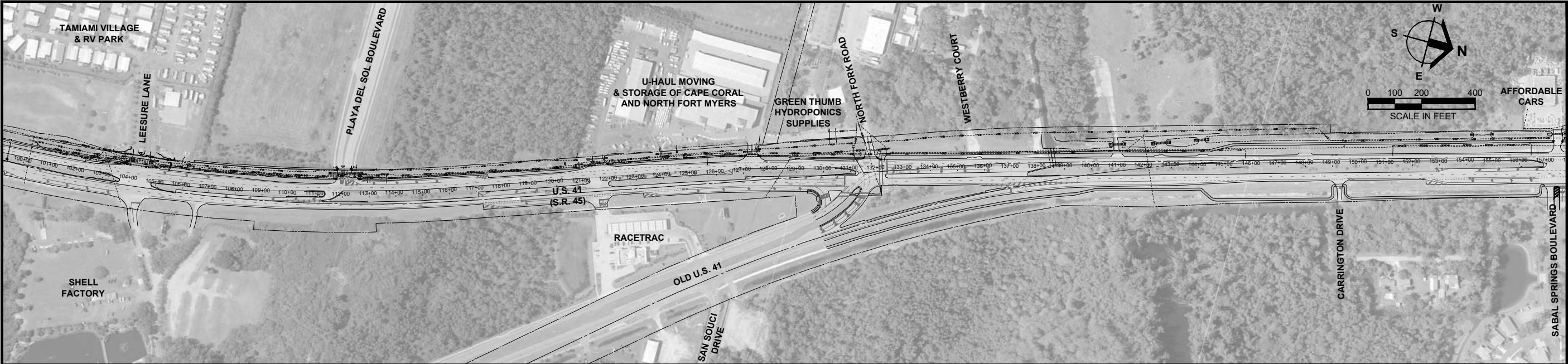
PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

L.C.U. NOTES

PROJECT / FILE NO.	SHEET NUMBER
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23994	3.0
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PROJECT DESCRIPTION

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PART OF SECTION 22 & 27,
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ENGINEER OF RECORD
WESLEY S. KAYNE, P.E., FOR THE FIRM
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PLOT DATE	TUE. 6-21-2022 - 9:45 AM
PLOT BY	JAN BILDZUKEWICZ
CROSS REFERENCED DRAWINGS	
SURVEY = 22759500.DWG	

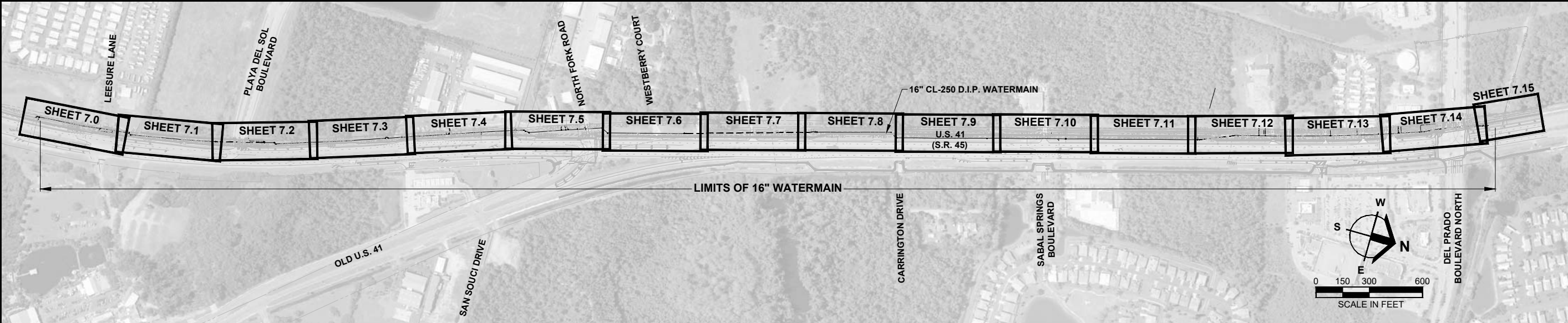
PLAN REVISIONS	

PLAN STATUS	
EXHIBIT	

Approved
2022-11-30
Harris
6/23/2022

AERIAL PHOTOGRAPH
AND EXISTING
CONDITIONS PLAN

PROJECT / FILE NO.	SHEET NUMBER
23063	4.0



UTILITIES PROVIDING SERVICE:

WATER
LEE COUNTY UTILITIES 1500 MONROE 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:

1.

EXISTING CONDITIONS DEPICTED IN THESE PLANS DO NOT NECESSARILY REFLECT UTILITY AND DRAINAGE ADJUSTMENTS THAT MAY BE UNDER CONSTRUCTION BY F.D.O.T.
2.

ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 5%, INCLUDING SIDEWALK CROSSINGS AT DRIVEWAYS.
4.

PROPOSED VALVES, BLOW-OFFS AND OTHER UTILITY APPURTENANCES SHALL NOT BE LOCATED WITHIN PROPOSED OR EXISTING SIDEWALKS UNLESS SPECIFICALLY APPROVED BY LEE COUNTY UTILITIES.
5.

ALL EXISTING MAINS TO BE TAKEN OUT OF SERVICE SHALL BE REMOVED WITH THE EXCEPTION OF MAINS UNDER EXISTING ROADWAYS WHICH SHALL BE GROUTED.
6.

WHERE TRACER WIRE DOES NOT PROVIDE ACCURATE SIGNAL FOR LOCATION OF EXISTING WATERMAIN OR FORCEMAIN PIPE SOFT DIG HOLE EVERY 100 FEET TO LOCATE PIPE.
7.

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.
8.

ALL DISTURBED AREAS SHALL RECEIVE SOD UPON COMPLETION OF CONSTRUCTION.
9.

PAVEMENT DAMAGED BEYOND THE LIMITS SHOWN SHALL BE REPAIRED BY THE CONTRACTOR. REPAIRS SHALL INCORPORATE THE ENTIRE LENGTH OF DAMAGE FOR THE FULL WIDTH OF A TRAVEL LANE. NO ADDITIONAL COMPENSATION SHALL BE MADE.
10.

DRIVEWAY AND SIDEWALK REPLACEMENT SHALL BE FROM EDGE OF PAVEMENT / CONCRETE TO THE NEAREST EXPANSION JOINT OR RIGHT-OF-WAY LINE, WHICHEVER IS CLOSEST TO INSTALLED UTILITY.
11.

TREES THAT ARE REPLACED IN-KIND SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER, BUT SHALL NOT BE PLANTED DIRECTLY OVER THE NEWLY INSTALLED UTILITY.
12.

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.
14.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WASTEWATER SPILLS THAT OCCUR 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.
16.

CONTRACTOR TO COORDINATE BRACING, PROTECTION AND OR RELOCATION OF 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.
17.

ALL EXISTING MAINS WHICH ARE TO BE REPLACED AS PART OF THIS PROJECT SHALL BE 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.
18.

ALL ASBESTOS CONCRETE PIPE TO BE REMOVED AND DISPOSED OF SHALL BE 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.
20.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUOUS OPERATION 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.
21.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN PEDESTRIAN ACCESS 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:

1.

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:
2.

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).
- ELEVATIONS SHALL BE TO THE NEAREST TENTH AND SHALL ALSO BE REQUIRED AT THESE LOCATIONS.

SUBSURFACE INVESTIGATION:

1.

SOIL BORING RECORDS WERE OBTAINED FOR THE PROJECT BY LOMSKI ENGINEERING AND TESTING. THE REPORTS WERE GENERATED ONLY FOR THE ENGINEER'S USE IN DESIGN. THE REPORT IS INCLUDED IN THE BID DOCUMENTS AS A COURTESY, BUT IS NOT A WARRANTY OR GUARANTEE OF SUBSURFACE CONDITIONS.
2.

BIDDERS SHOULD VISIT THE SITE AND ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS. PRIOR TO BIDDING, BIDDERS MAY MAKE THEIR OWN SUBSURFACE INVESTIGATIONS (AS APPROVED BY THE STATE) TO SATISFY THEMSELVES AS TO SITE AND SUBSURFACE CONDITIONS, BUT ALL SUCH INVESTIGATIONS SHALL BE PERFORMED UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED IN ADVANCE BY THE OWNER.
3.

ALL COSTS OF ROCK EXCAVATION SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO EXTRA COMPENSATION OR TIME EXTENSION WILL BE ALLOWED FOR ADDITIONAL WORK DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PRESENCE, SPLITTING, EXCAVATING, CRUSHING, DISPOSAL, REPLACEMENT OF DISPLACED VOLUME OF EXTRACTED ROCK WITH FILL MATERIAL OR SPECIAL HANDLING OF ROCK.

MAINTENANCE OF TRAFFIC:

1.

TEMPORARY TRAFFIC CONTROL (T.T.C.) PLANS ARE REQUIRED TO BE SUBMITTED BY THE CONTRACTOR FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THIS PLAN SHOULD BE SUBMITTED AND APPROVED BY THE F.D.O.T. AT LEAST 14 DAYS PRIOR TO MOBILIZATION. T.T.C. PLANS SHALL INCLUDE, BUT NOT LIMITED TO, DETAILS OF ALLOWED LANE CLOSURES, PEDESTRIAN ACCESS CLOSURES, AND HOURS OF OPERATION. REFER TO THE APPROVED F.D.O.T. PERMIT WHEN CREATING THE TEMPORARY TRAFFIC CONTROL PLANS (T.T.C.)
2.

ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF DURING CONSTRUCTION ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE F.D.O.T. A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. IF DURING CONSTRUCTION ROAD CLOSURES ARE REQUIRED AND APPROVED BY F.D.O.T., THE CONTRACTOR SHALL NOTIFY THE F.D.O.T. A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
3.

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, OR AS DIRECTED BY THE L.C.D.O.T., SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC PATTERN OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.
4.

THE CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FOR ALL LANE CLOSURES WITHIN LEE COUNTY RIGHT-OF-WAYS WITH L.C.D.O.T. A MINIMUM OF 14 DAYS PRIOR TO THE REQUIRED CLOSINGS.

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PREPARED FOR

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LEE COUNTY

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FAX (239) 485-8845

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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	
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PLOT BY	JAN BILDZUKEWICZ
CROSS REFERENCED DRAWINGS	
BASEPLAN = 23994A00.DWG SURVEY = 22759500.DWG	
PLAN REVISIONS	
PLAN STATUS	
100% SUBMITTAL PLANS 2022-06-21	
MASTER UTILITY PLAN, KEY SHEET, AND NOTES	
PROJECT / FILE NO.	SHEET NUMBER
23994	5.0

1

TYPICAL SECTION NO.1

N.T.S.

2

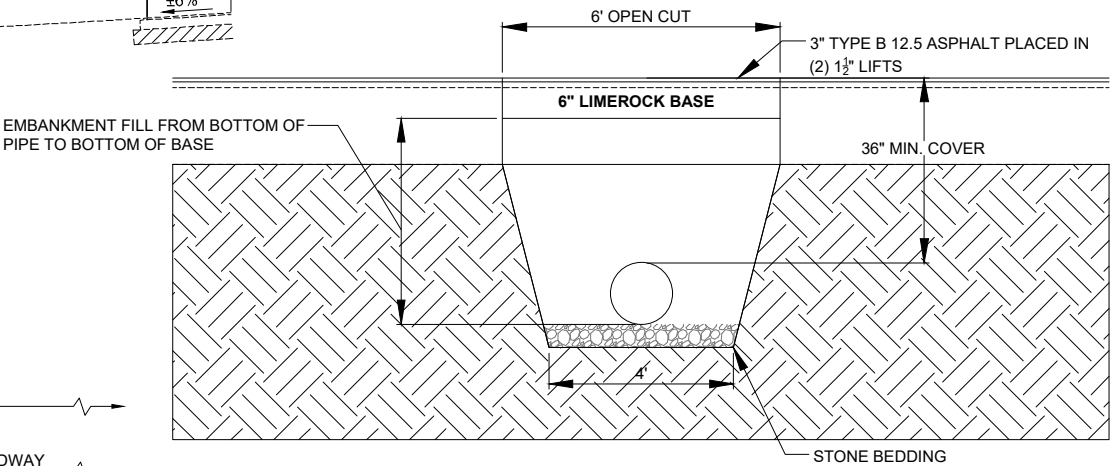
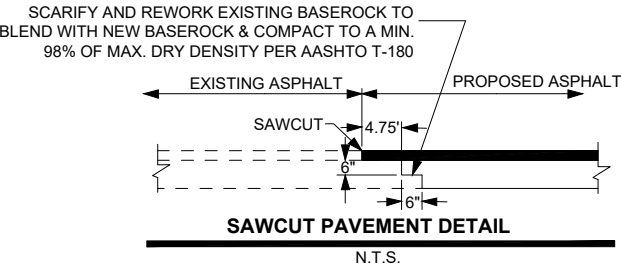
TYPICAL SECTION NO.2

N.T.S.

3

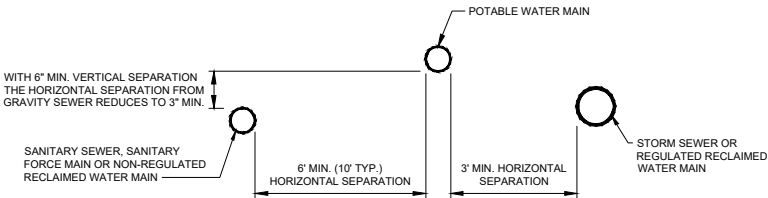
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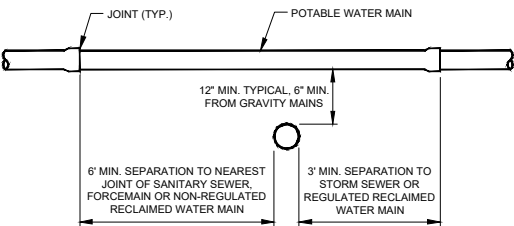


DRIVE WAY OPEN CUT SECTION (EMBANKMENT)

N.T.S.



PARALLEL UTILITY LINES



CROSSING DETAIL

- UTILITY LOCATION NOTES:
1. THE REFERENCED UTILITY SEPARATIONS ARE IN ACCORDANCE WITH F.A.C. CHAPTER 62-555. SEE UTILITY DETAILS OR SPECIFICATIONS FOR ADDITIONAL SEPARATION REQUIREMENTS OF THE LOCAL UTILITY PROVIDER.
 2. WHERE POSSIBLE THE POTABLE WATER MAIN SHALL CROSS ABOVE ANY SANITARY SEWER, FORCEMAIN, STORM SEWER OR RECLAIMED WATER LINES.
 3. PREFERABLY ONE FULL LENGTH OF WATER SHALL BE CENTERED AT CROSSING SO THE WATERMAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE.
 4. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE PIPE.
 5. LOCAL UTILITY AUTHORITY REQUIREMENTS MAY BE MORE RESTRICTIVE.

UTILITY LOCATION DETAIL

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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

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CROSS REFERENCED DRAWINGS

PLAN REVISIONS

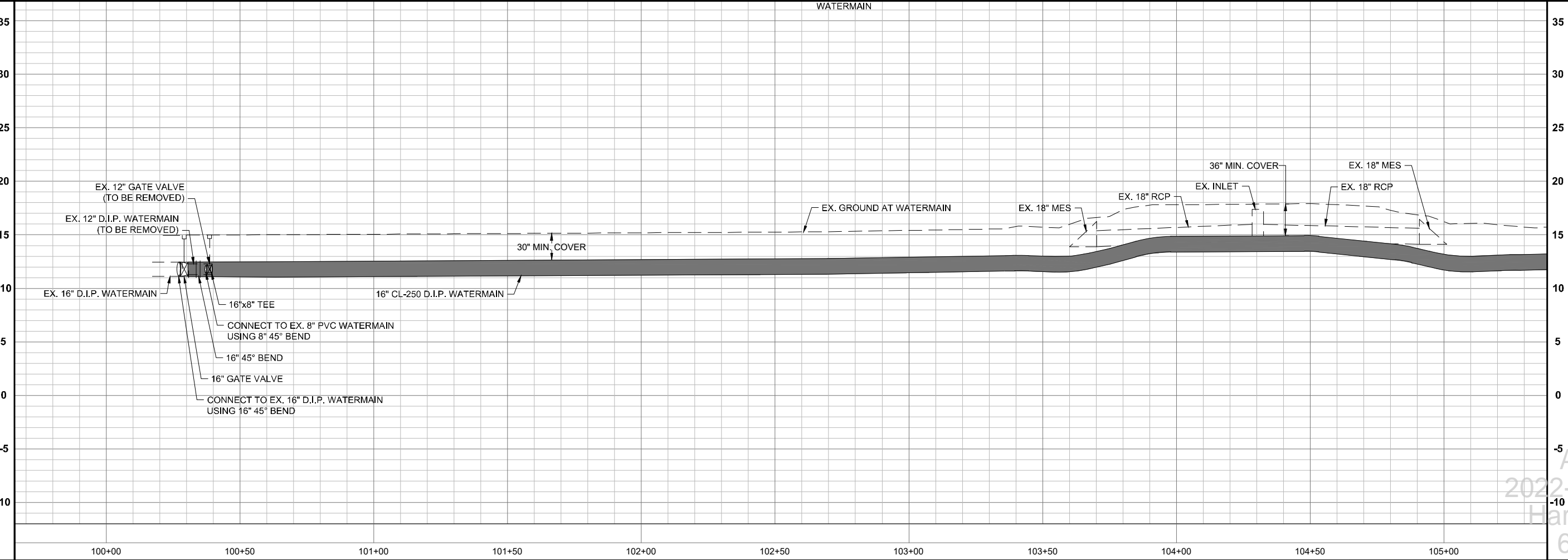
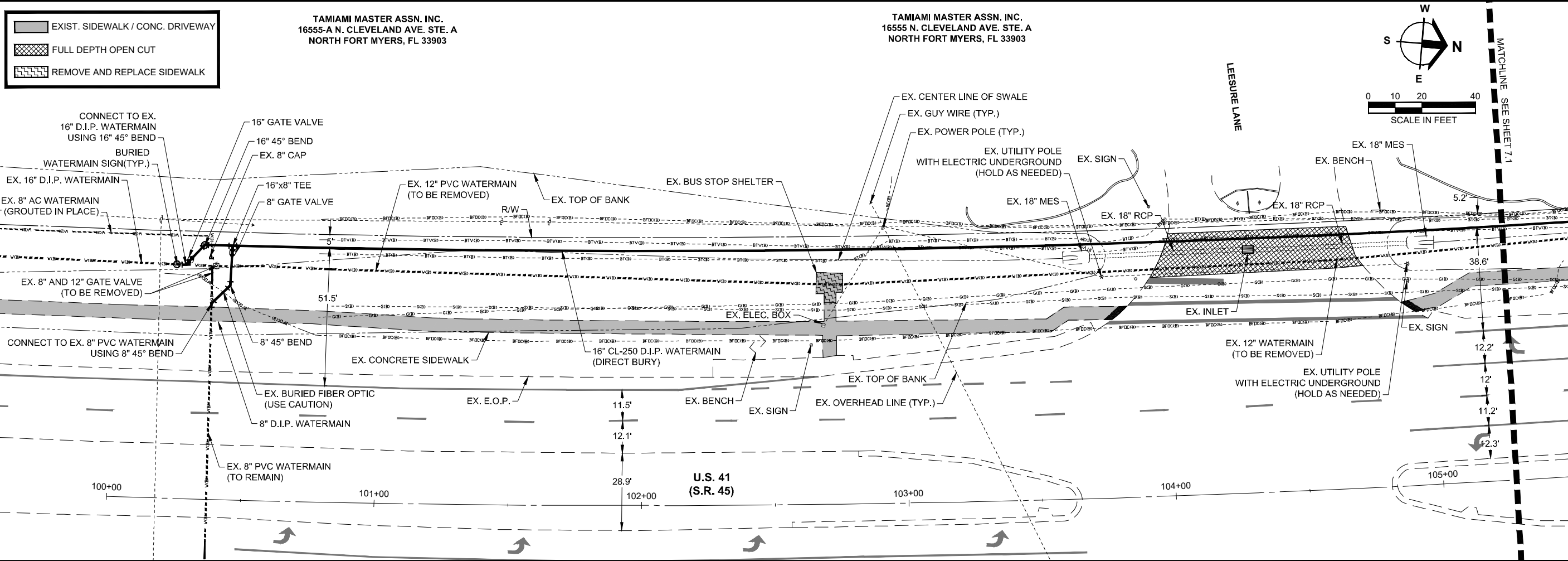
PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

TYPICAL
SECTIONS AND
DETAILS

PROJECT / FILE NO. SHEET NUMBER

23994 6.0



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PROJECT DESCRIPTION

NORTH U.S. 41
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16-INCH WATER MAIN

LITTLETON ROAD TO
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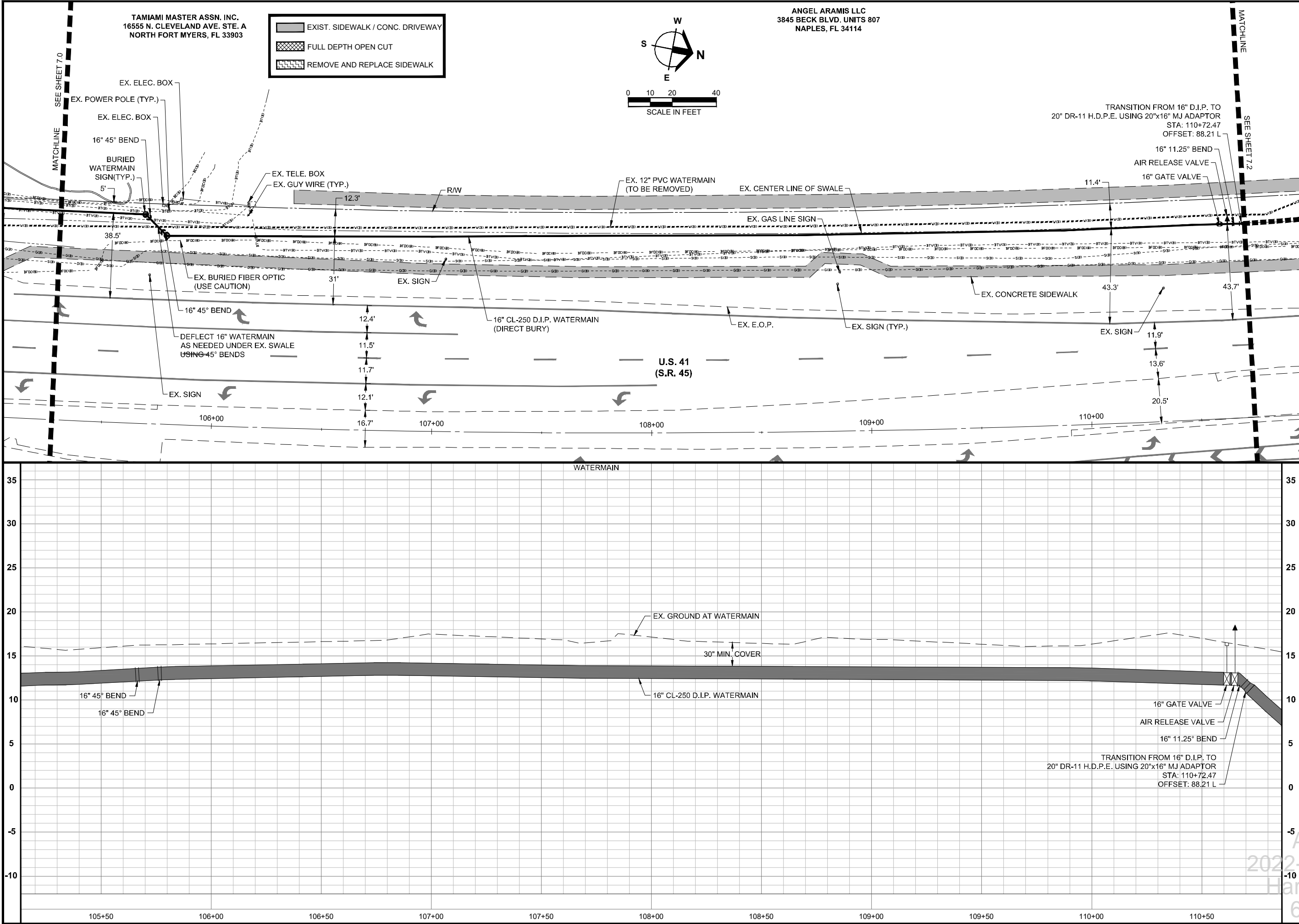
PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris
6/23/2022

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 100+00 TO 105+27

PROJECT / FILE NO. SHEET NUMBER
23994 7.0



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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

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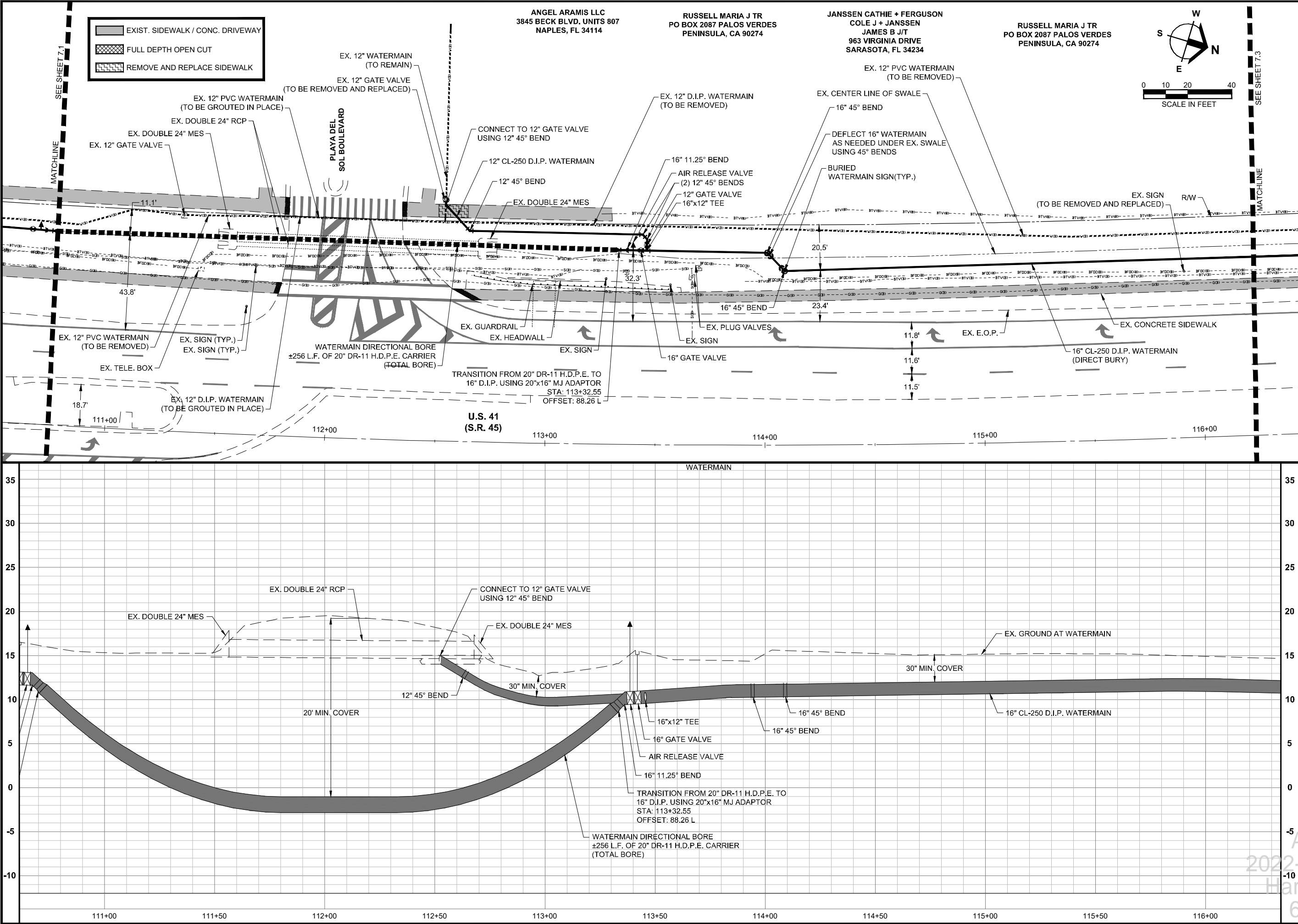
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SURVEY = 22759S00.DWG

PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 105+27 TO 110+74

PROJECT / FILE NO. 23994
SHEET NUMBER 7.1

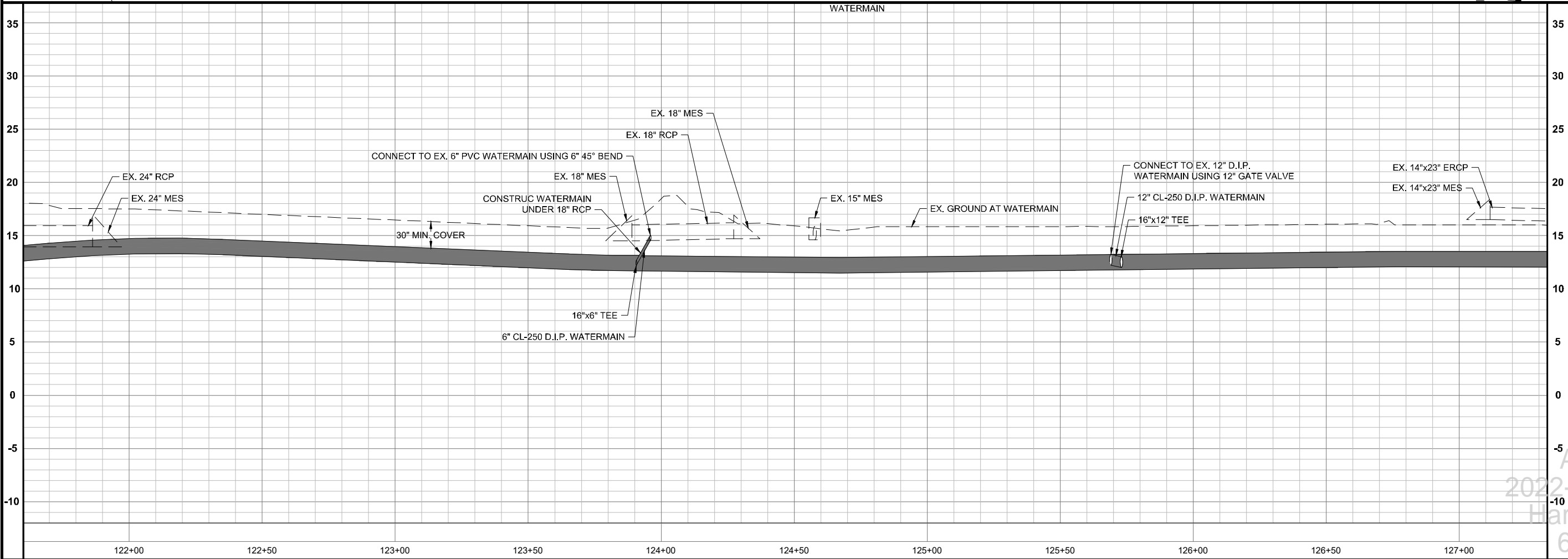
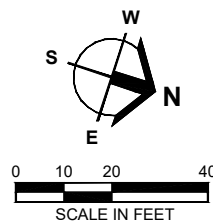
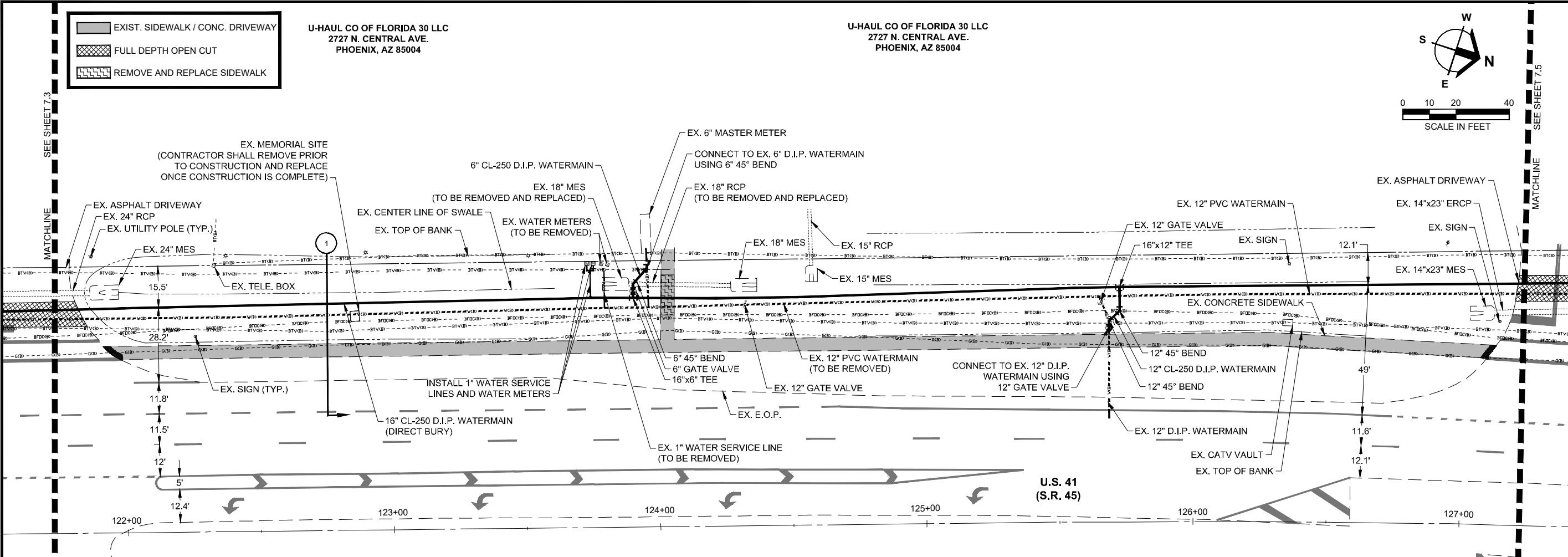


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PROJECT DESCRIPTION
NORTH U.S. 41
(S.R. 45)
16-INCH WATER MAIN
LITTLETON ROAD TO
DEL PRADO BOULEVARD
PART OF SECTION 22 & 27,
TOWNSHIP 43 SOUTH,
RANGE 24 EAST
FORT MYERS, LEE COUNTY, FLORIDA
ENGINEER OF RECORD
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PLOT BY: JAN BILDZUKEWICZ
CROSS REFERENCED DRAWINGS
BASEPLAN = 23994A00.DWG
SURVEY = 22759500.DWG
PLAN REVISIONS
PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21
PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 110+74 TO 116+23
PROJECT / FILE NO. **23994**
SHEET NUMBER **7.2**



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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
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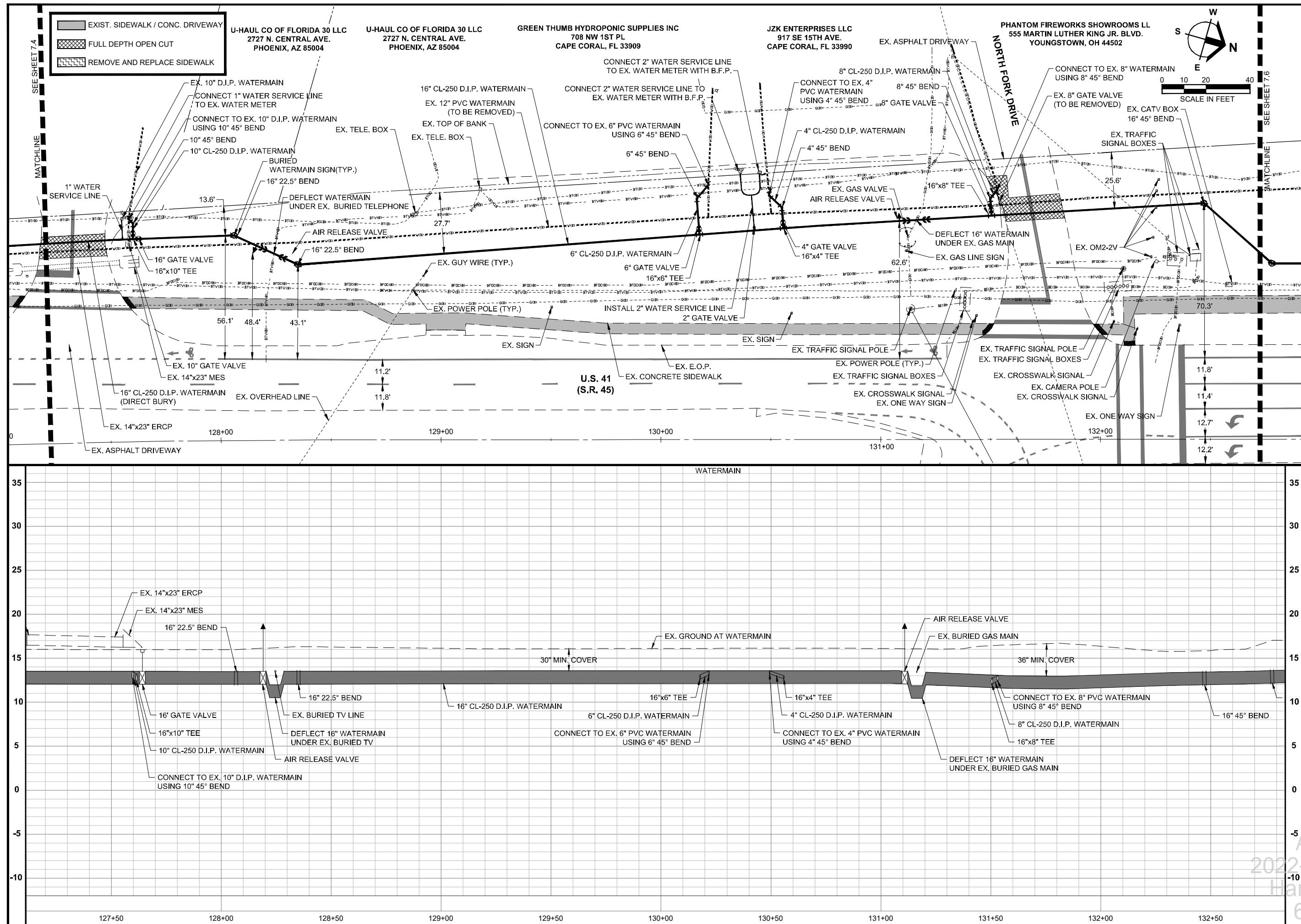
PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris, Caldwell
6/23/2022

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 121+72 TO 127+23

PROJECT / FILE NO. **23994** SHEET NUMBER **7.4**



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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

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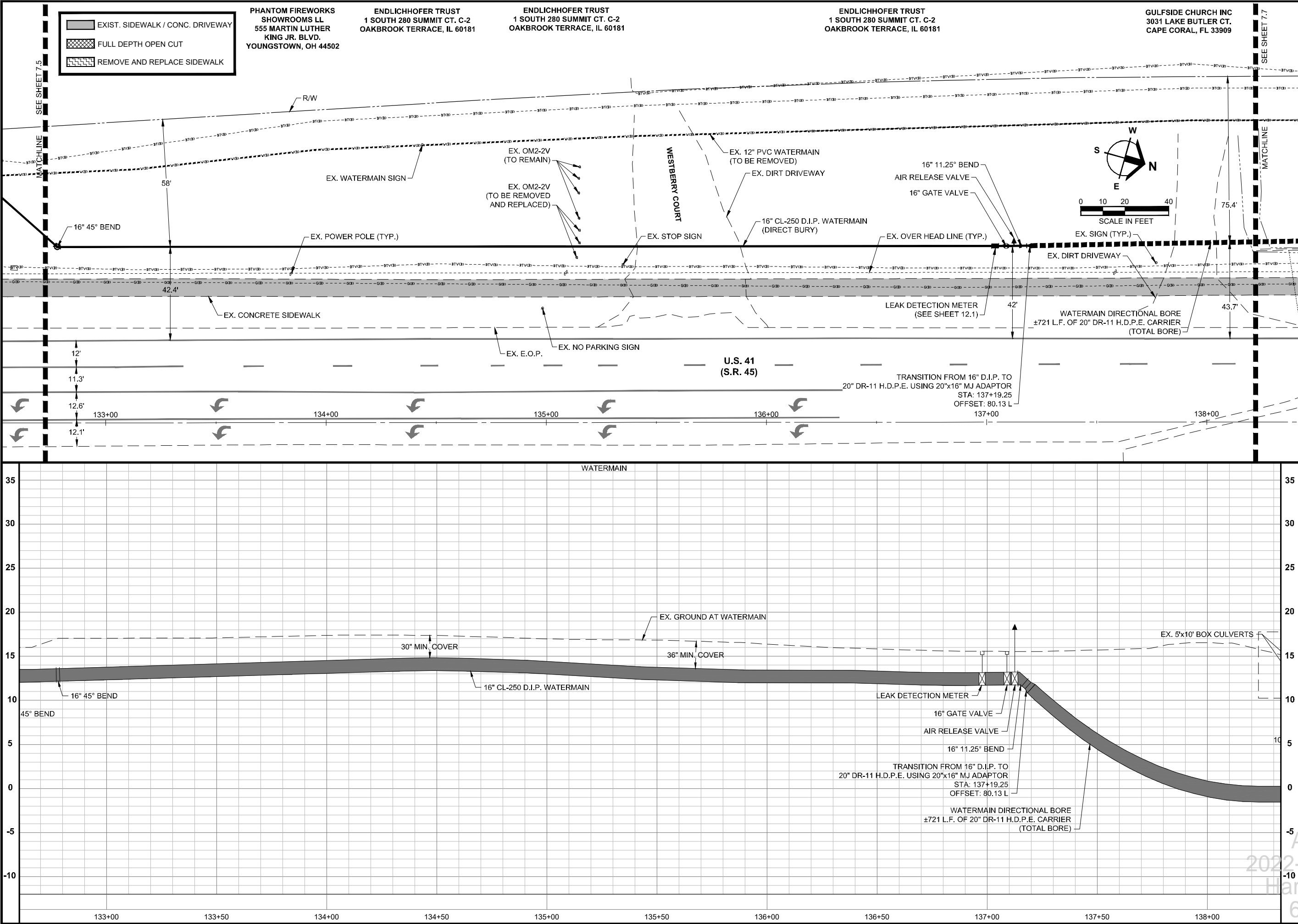
PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris
6/23/2022

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 127+23 TO 132+73

PROJECT / FILE NO. 23994
SHEET NUMBER 7.5



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PROJECT DESCRIPTION

**NORTH U.S. 41
(S.R. 45)
16-INCH WATER MAIN**

LITTLETON ROAD TO
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PART OF SECTION 22 & 27,
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PLOT BY JAN BILDZUKEWICZ

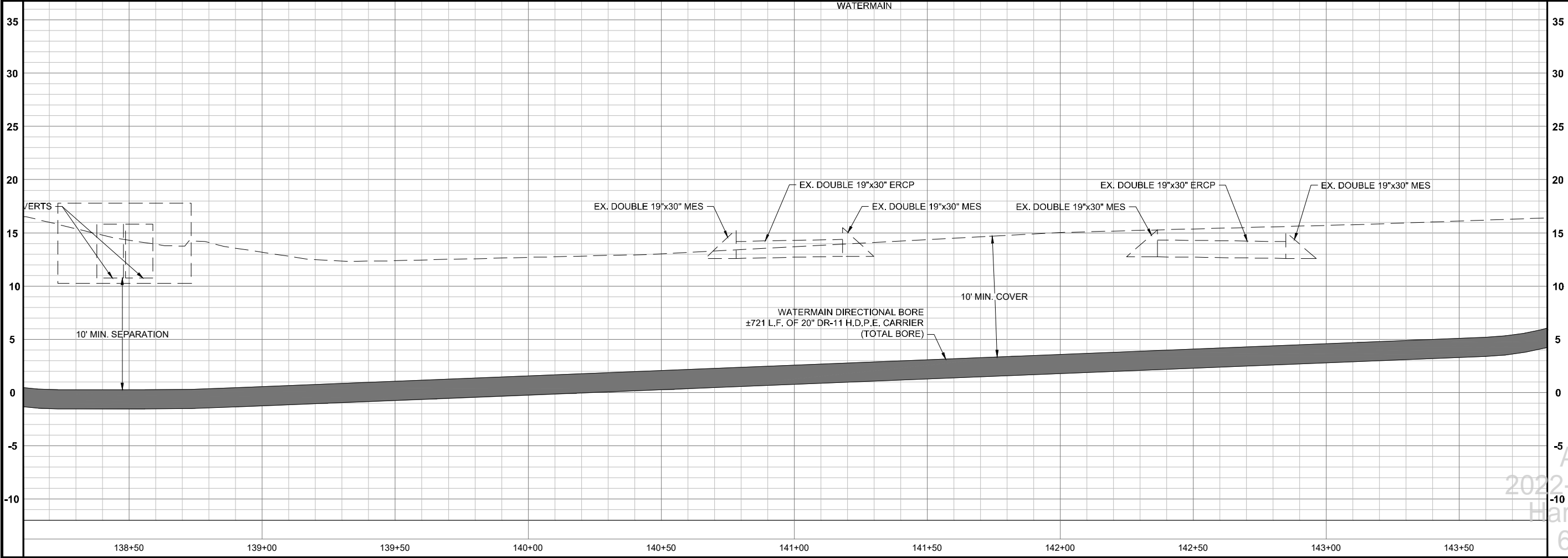
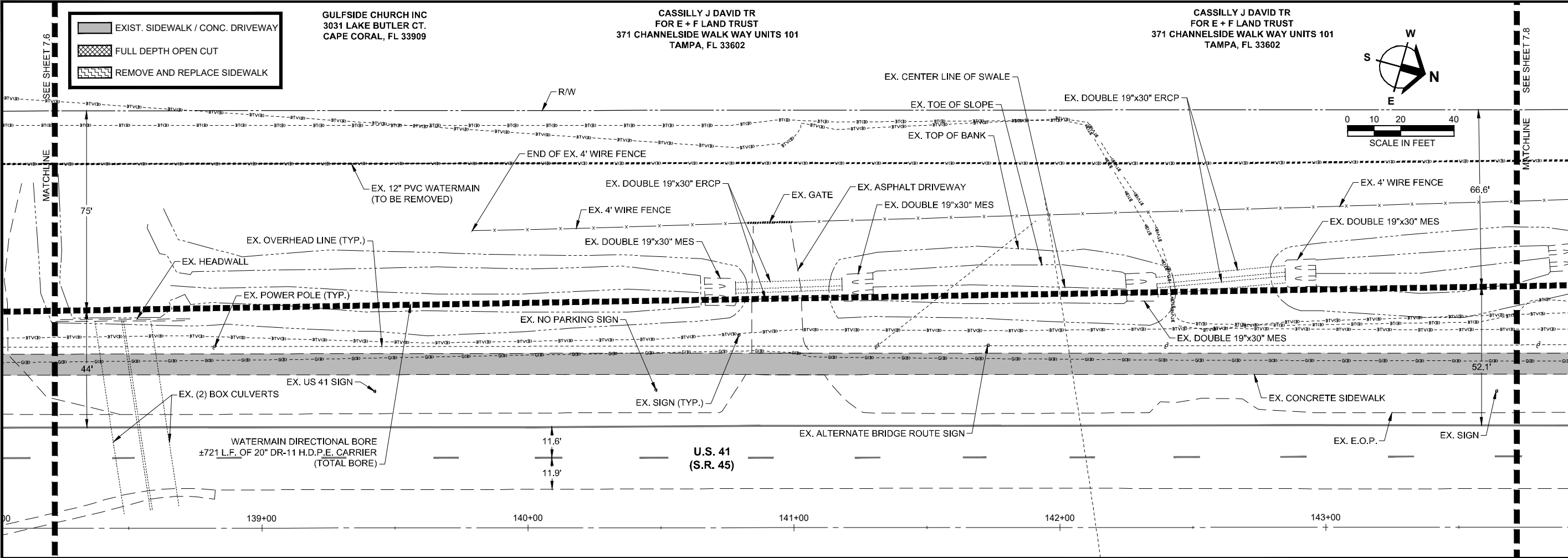
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SURVEY = 22759S00.DWG

PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 132+73 TO 138+22

PROJECT / FILE NO. SHEET NUMBER
23994 7.6



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PREPARED FOR

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LEE COUNTY

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FAX (239) 485-8845
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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

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LOCATION J:\23994\DWG\DWG
PLOT DATE TUE. 6-21-2022 - 9:49 AM
PLOT BY JAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS
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SURVEY = 22759S00.DWG

PLAN REVISIONS

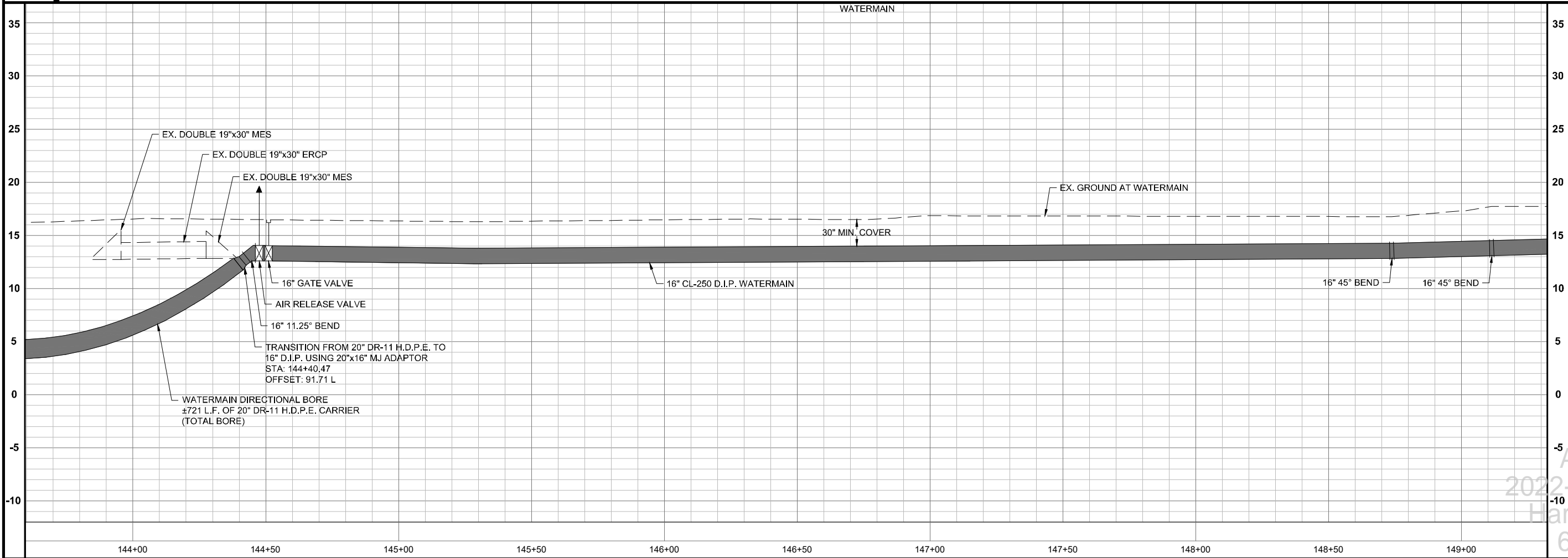
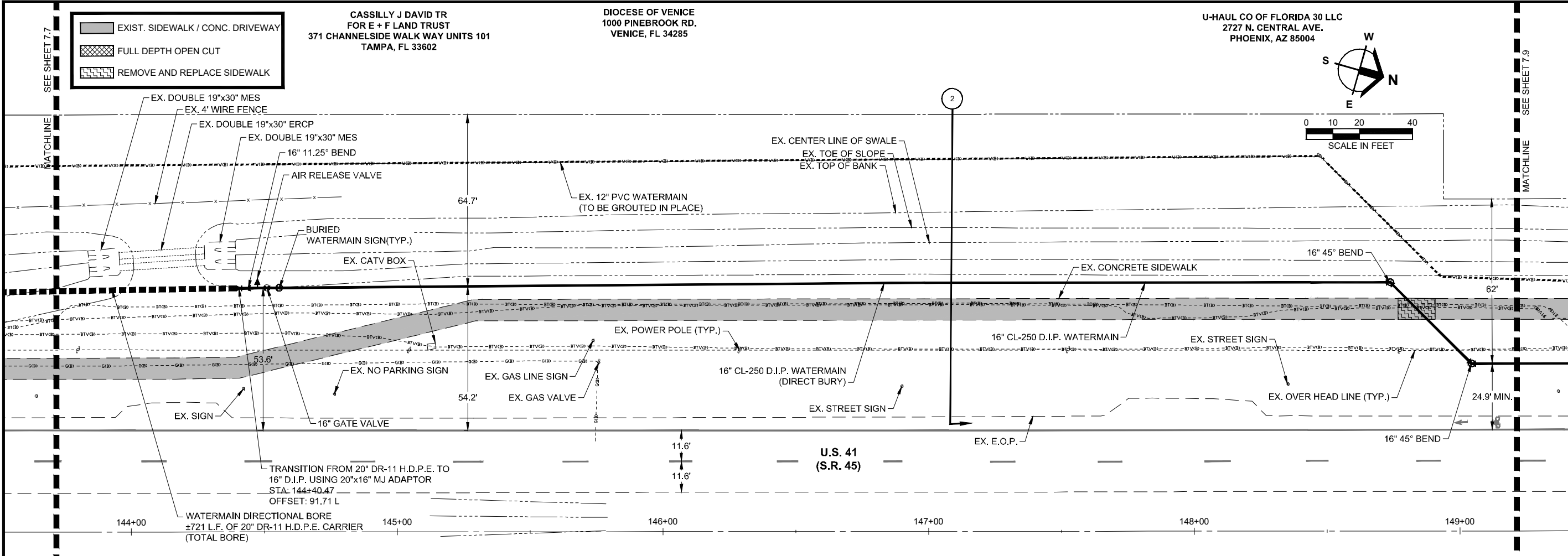
PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris
6/23/2022

Approved
2022-06-21
Harris
6/23/2022

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 138+22 TO 143+72

PROJECT / FILE NO. SHEET NUMBER
23994 7.7



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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
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PLOT DATE: TUE. 6-21-2022 - 9:50 AM
PLOT BY: JAN BILDZUKEWICZ

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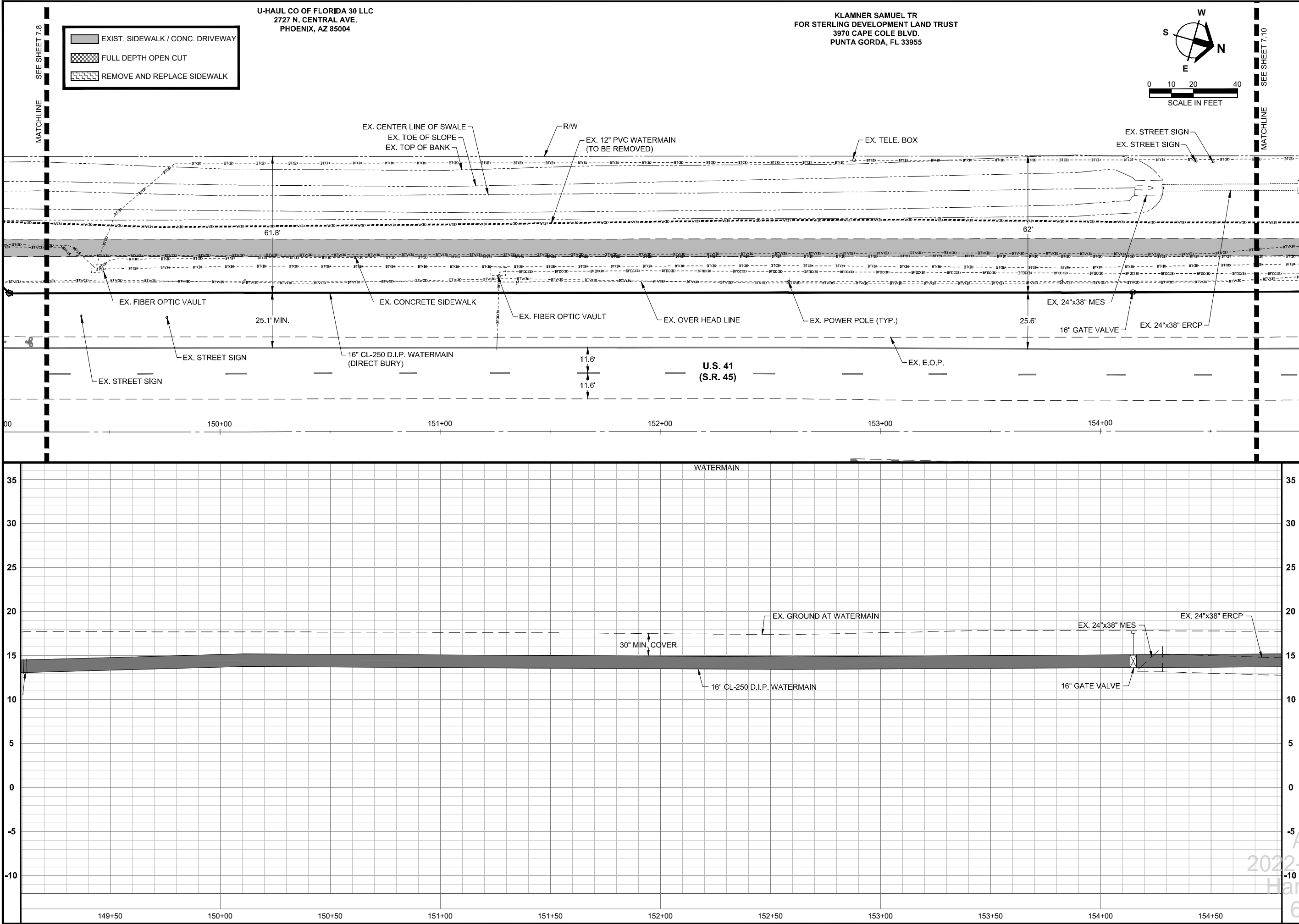
PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris, Giddens
6/23/2022

**PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 143+72 TO 149+21**

PROJECT / FILE NO. **23994** SHEET NUMBER **7.8**



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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
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LOCATION J:\23994\DWG\DWG
PLOT DATE TUE. 6-21-2022 - 9:50 AM
PLOT BY JAN BILDZUKEWICZ

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SURVEY = 22759500.DWG

PLAN REVISIONS

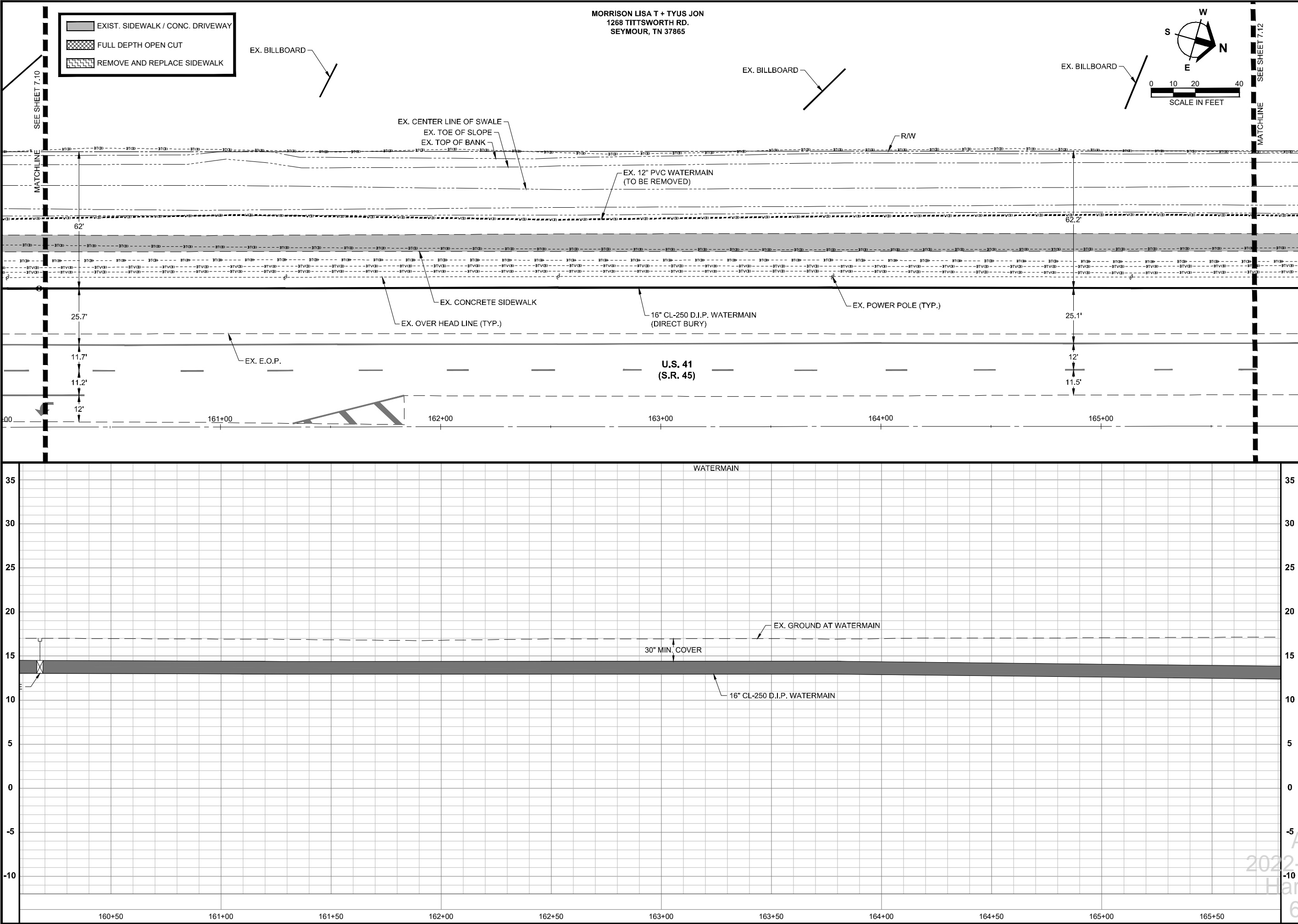
PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris, Gilbertson
6/23/2022

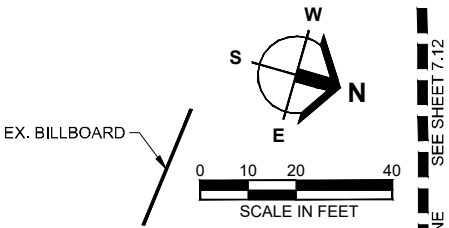
Approved
2022-06-21
Harris, Gilbertson
6/23/2022

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 149+21 TO 154+71

PROJECT / FILE NO. SHEET NUMBER
23994 7.9



MORRISON LISA T + TYUS JON
1268 TITTSWORTH RD.
SEYMOUR, TN 37865



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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

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PLOT BY JAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS

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SURVEY = 22759S00.DWG

PLAN REVISIONS

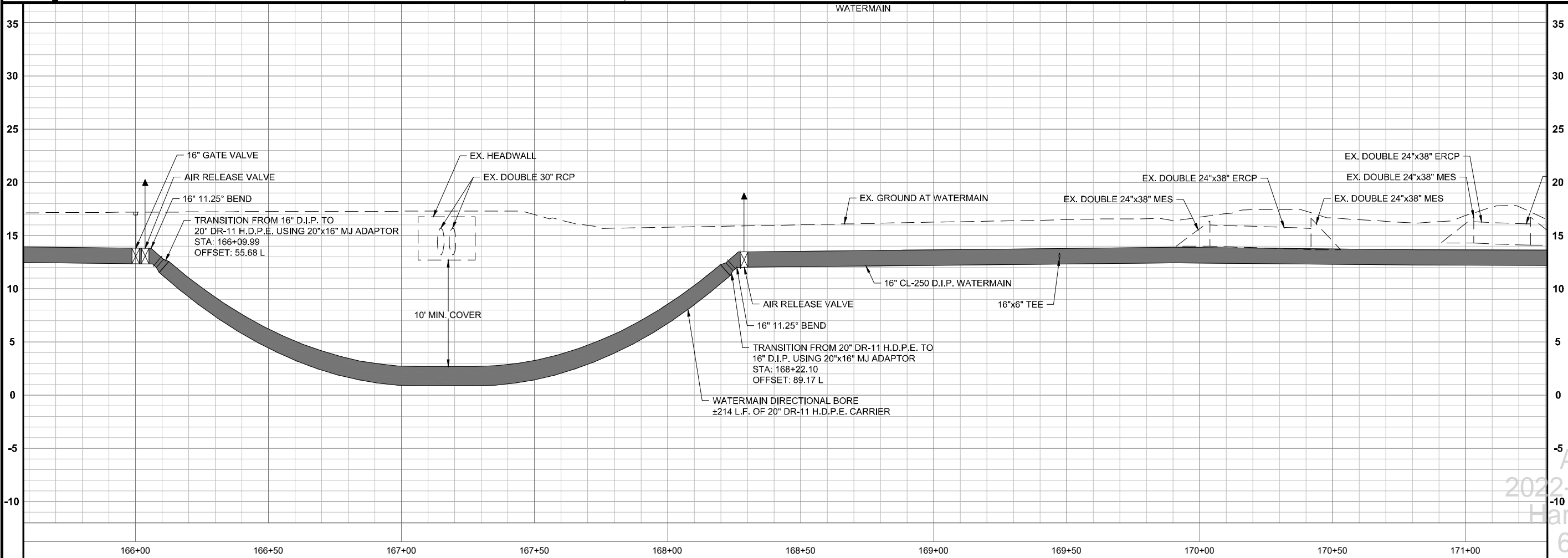
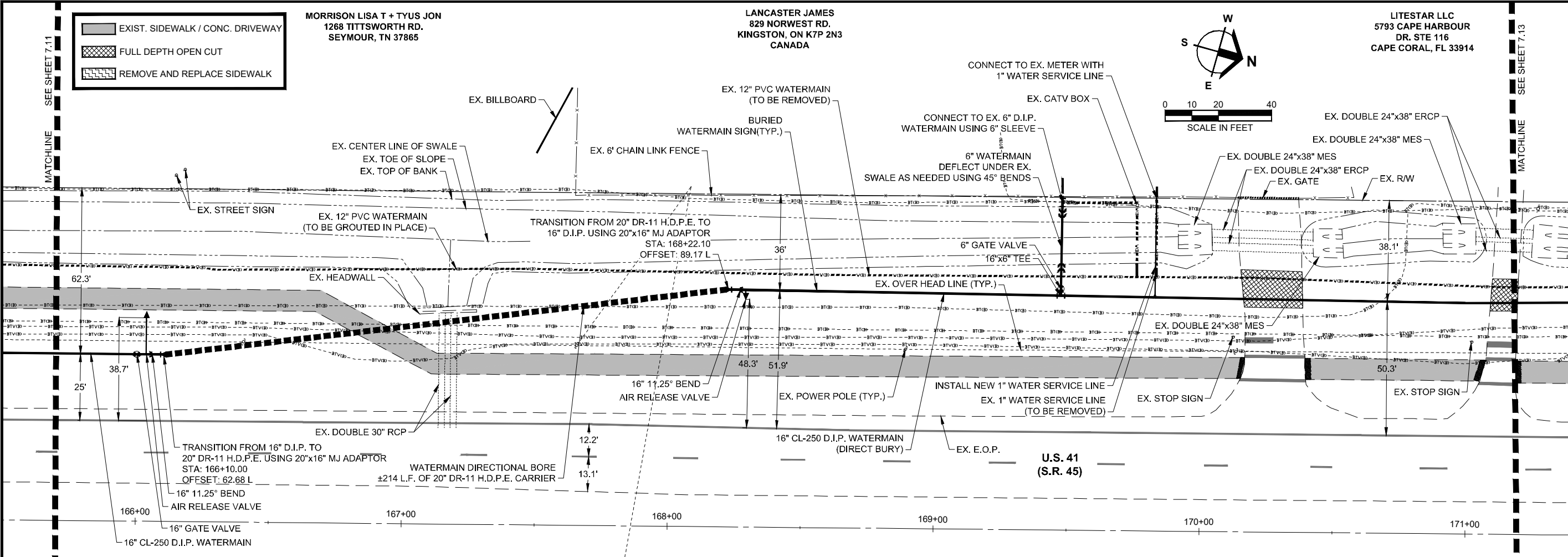
PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 160+21 TO 165+70

PROJECT / FILE NO. SHEET NUMBER

23994 7.11



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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

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PLOT DATE: TUE. 6-21-2022 - 9:51 AM
PLOT BY: JAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS
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SURVEY = 22759500.DWG

PLAN REVISIONS

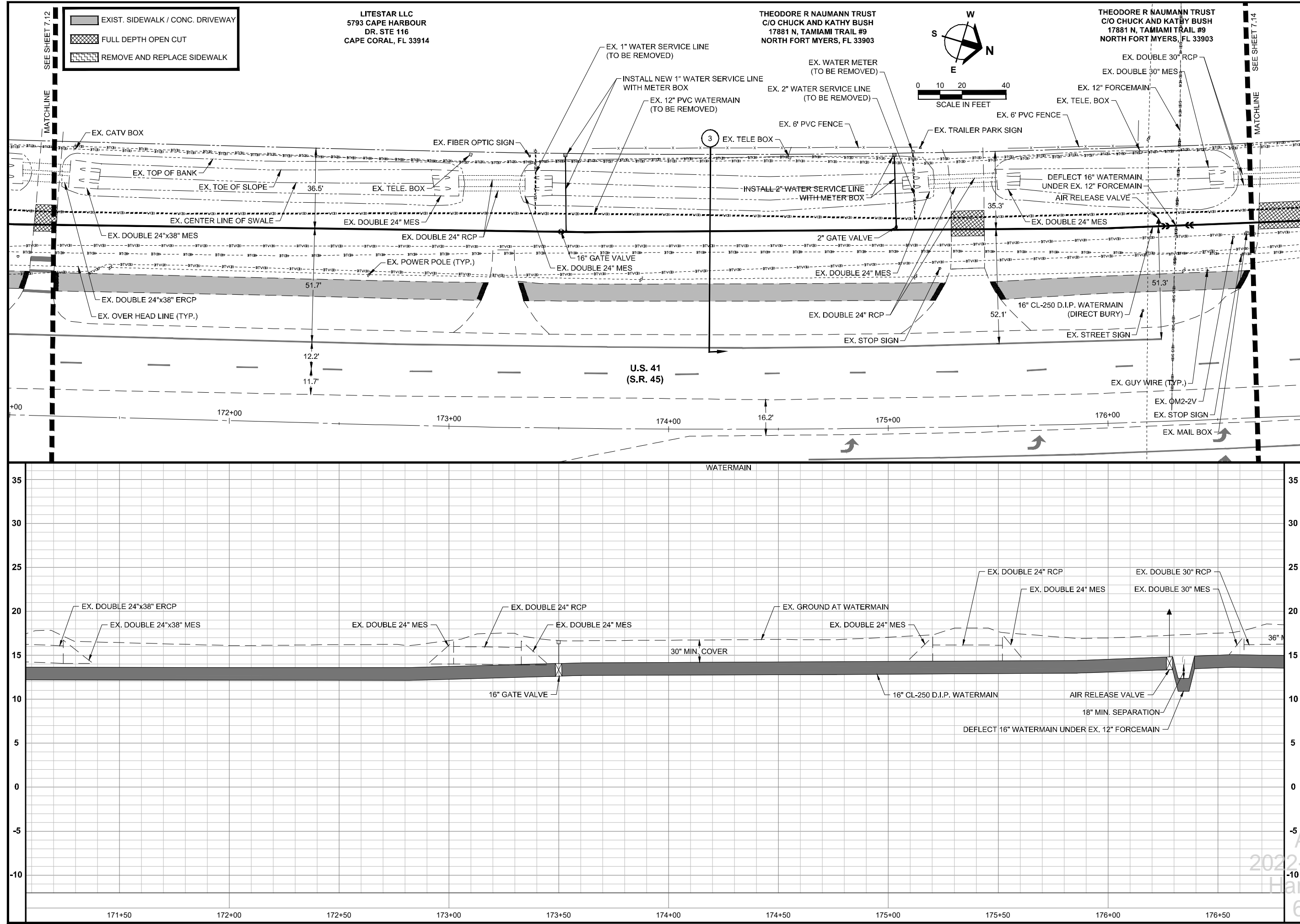
PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

2022-06-21
Harris
6/23/2022

Approved
2022-06-21
Harris
6/23/2022

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 165+70 TO 171+19

PROJECT / FILE NO. **23994**
SHEET NUMBER **7.12**



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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

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PLOT BY: JAN BILDZUKEWICZ

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PLAN REVISIONS

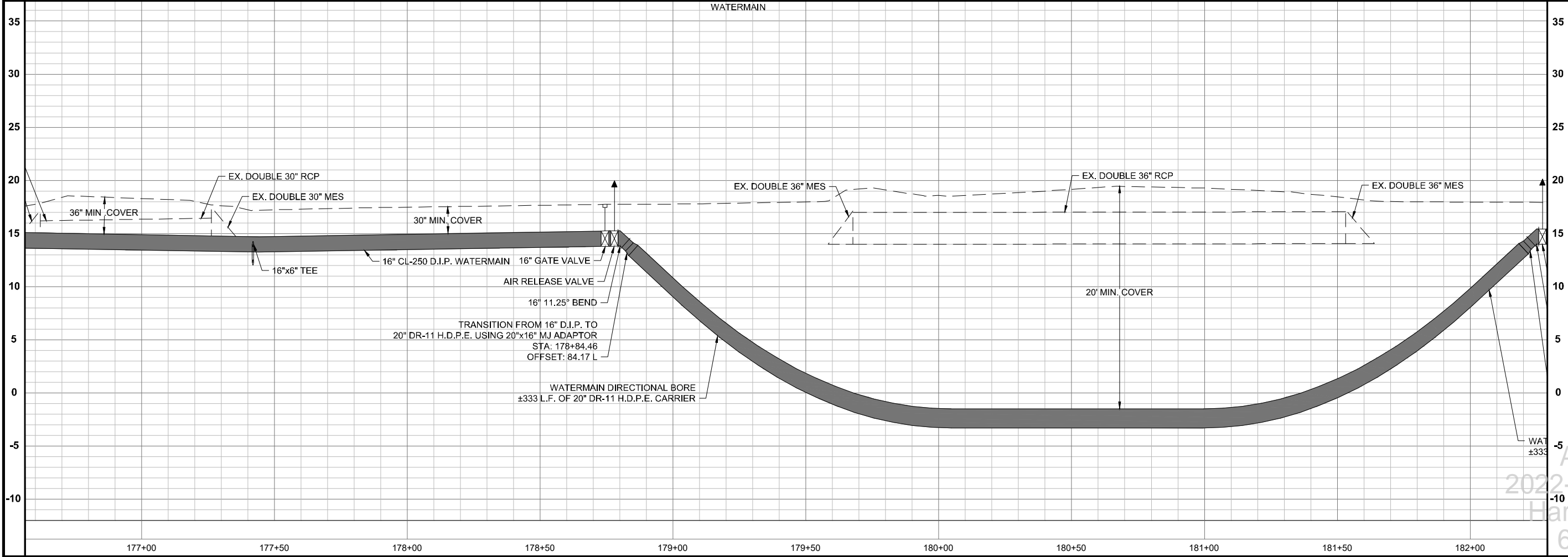
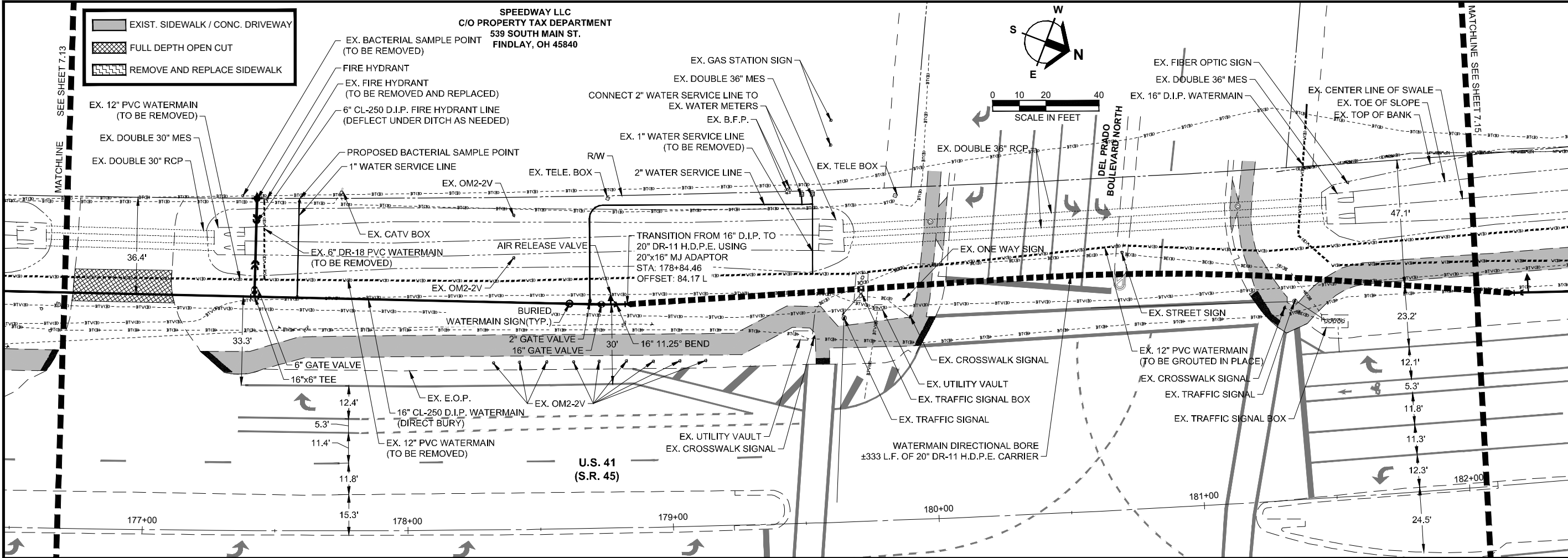
PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

PLAN AND PROFILE
U.S. 41 (S.R. 45)
STA: 171+19 TO 176+68

PROJECT / FILE NO. SHEET NUMBER

23994 7.13



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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
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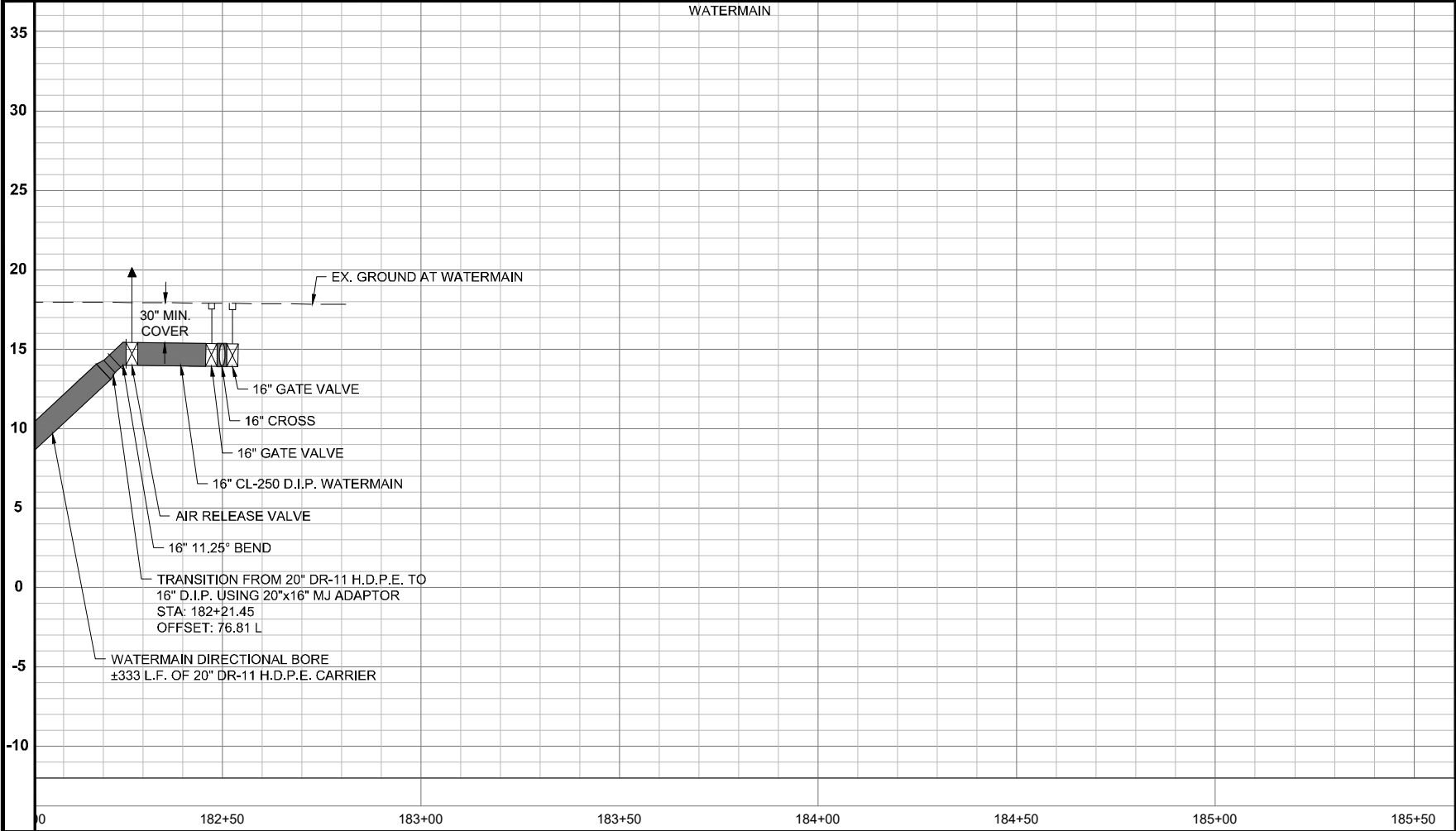
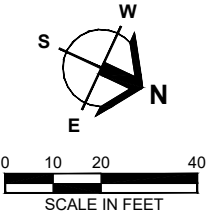
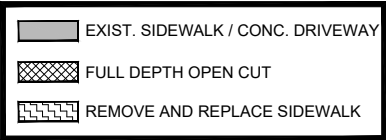
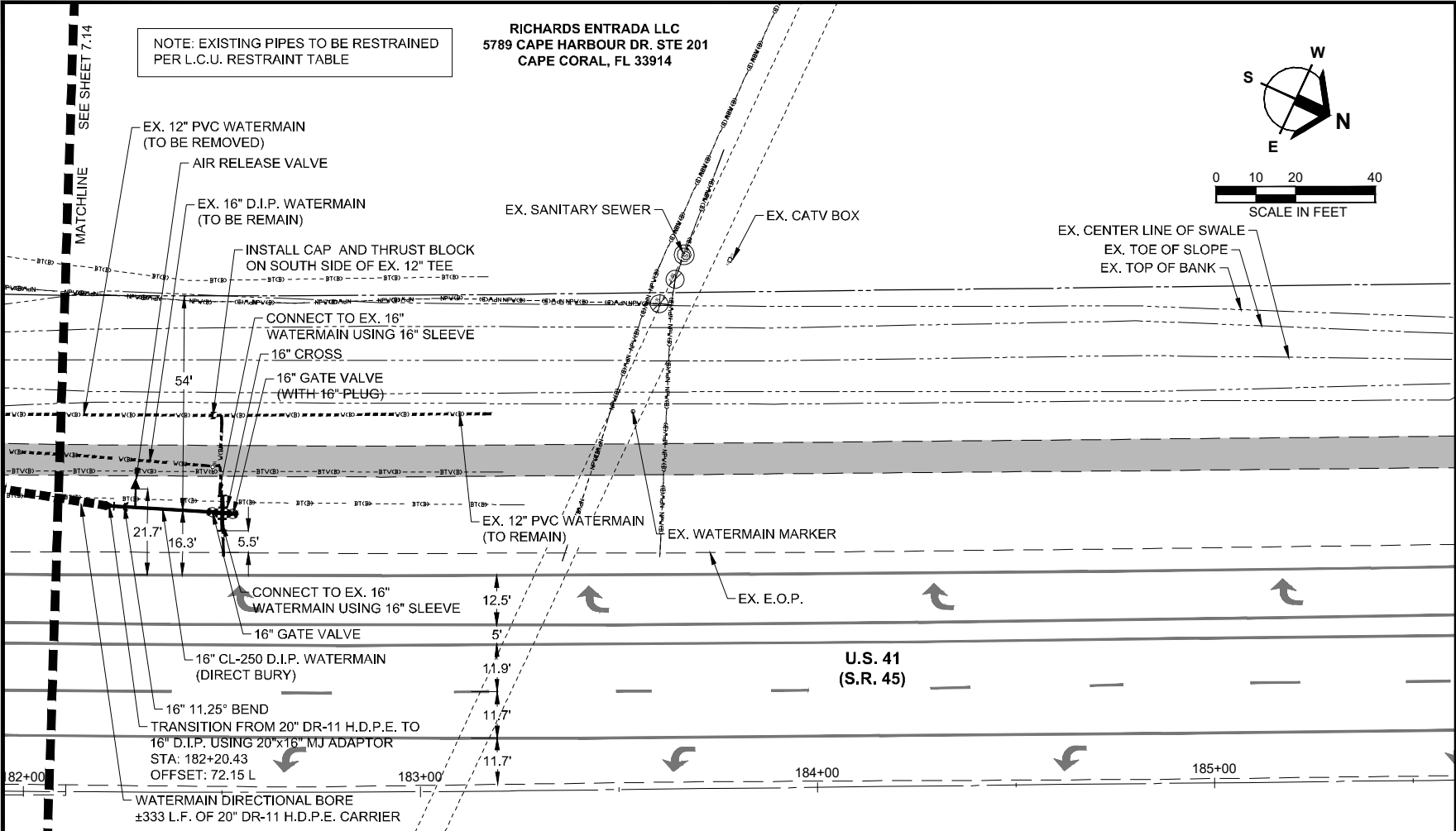
CROSS REFERENCED DRAWINGS
BASEPLAN = 23994A00.DWG
SURVEY = 22759500.DWG

PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

PLANNED AND PROFILE
U.S. 41 (S.R. 45)
STA: 176+68 TO 182+06

PROJECT / FILE NO. SHEET NUMBER
23994 7.14



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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
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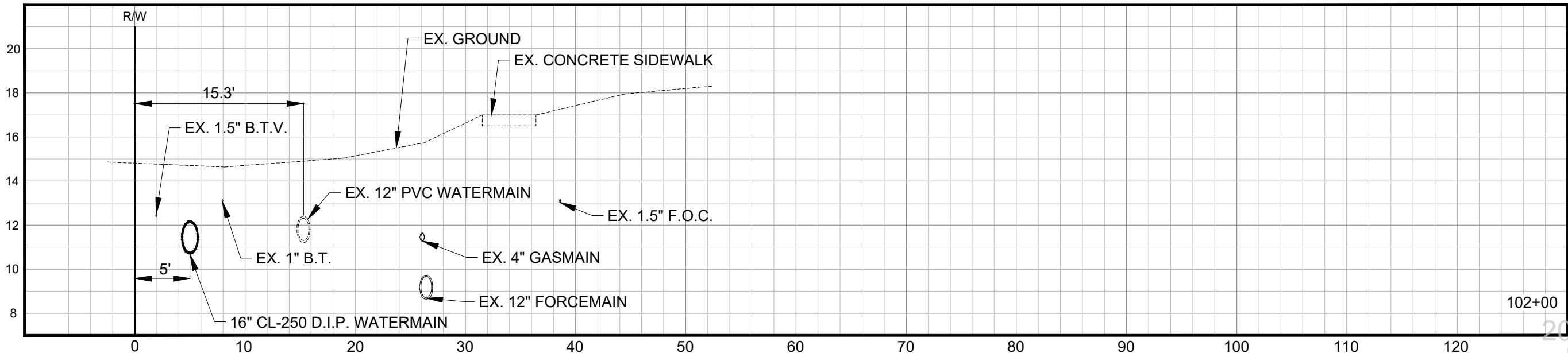
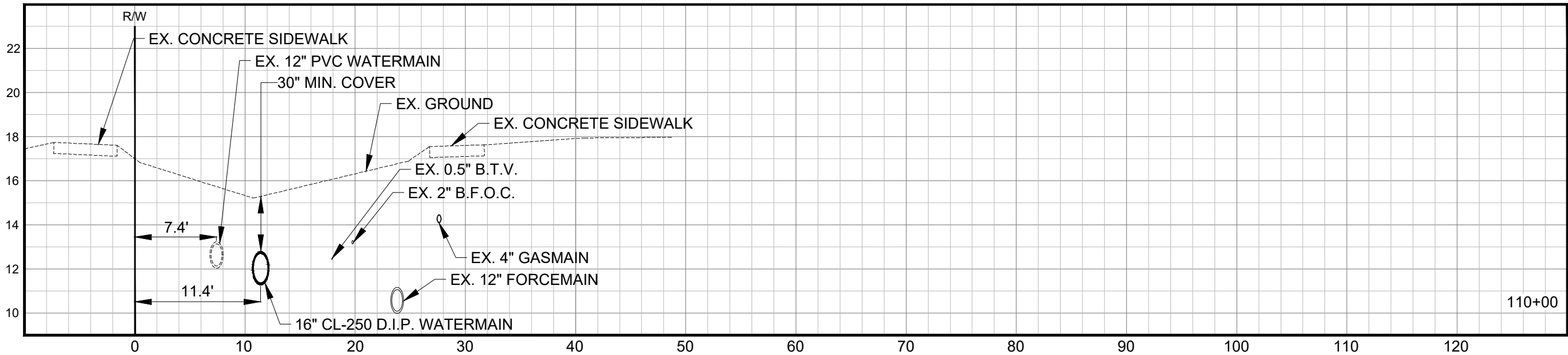
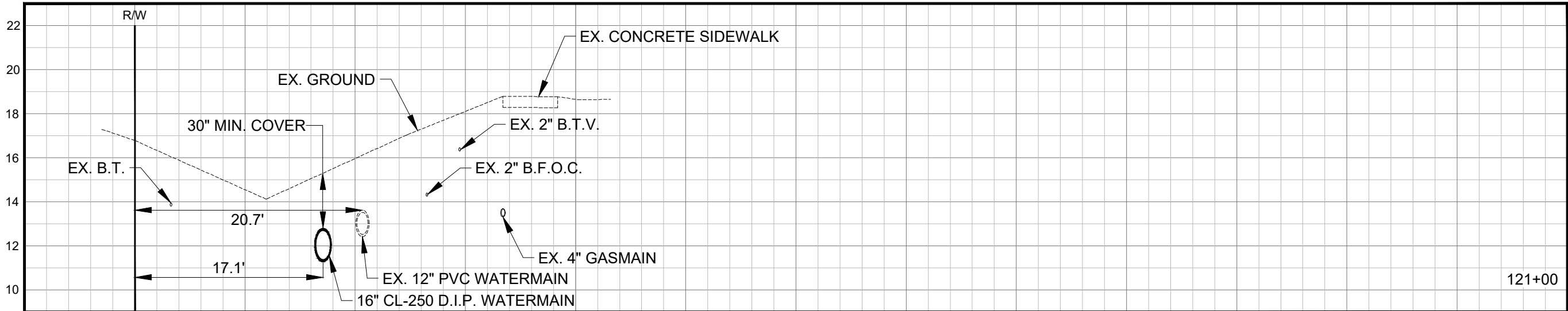
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PLOT BY	JAN BILDZUKEWICZ

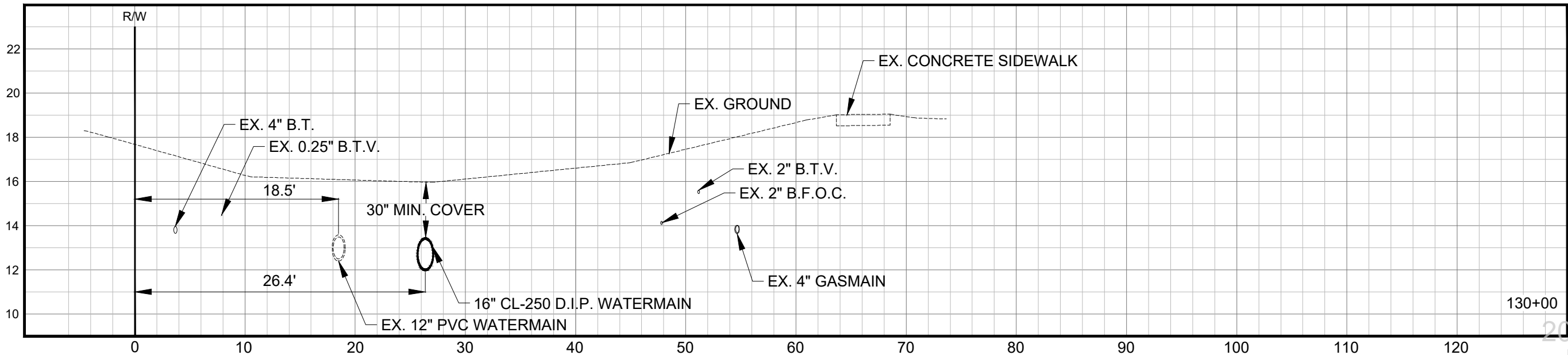
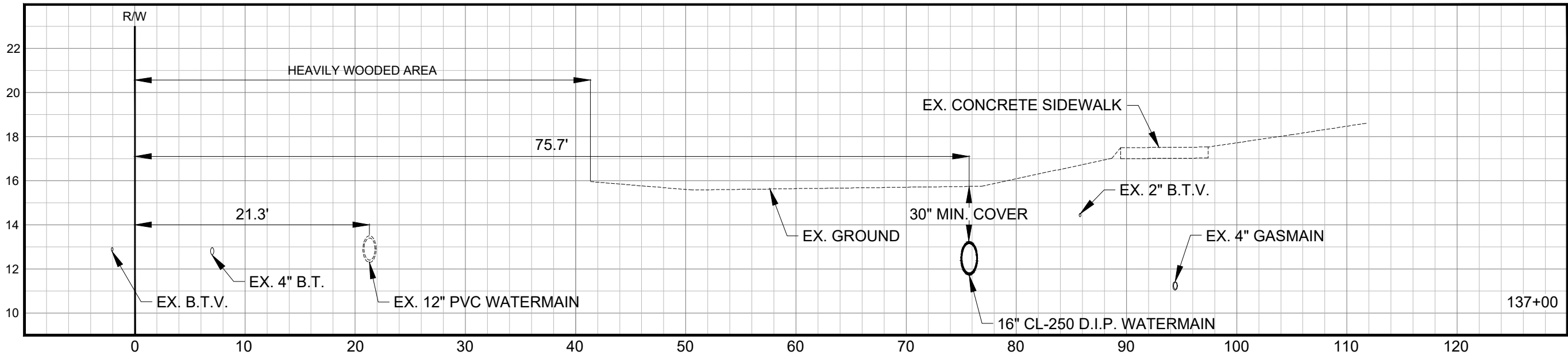
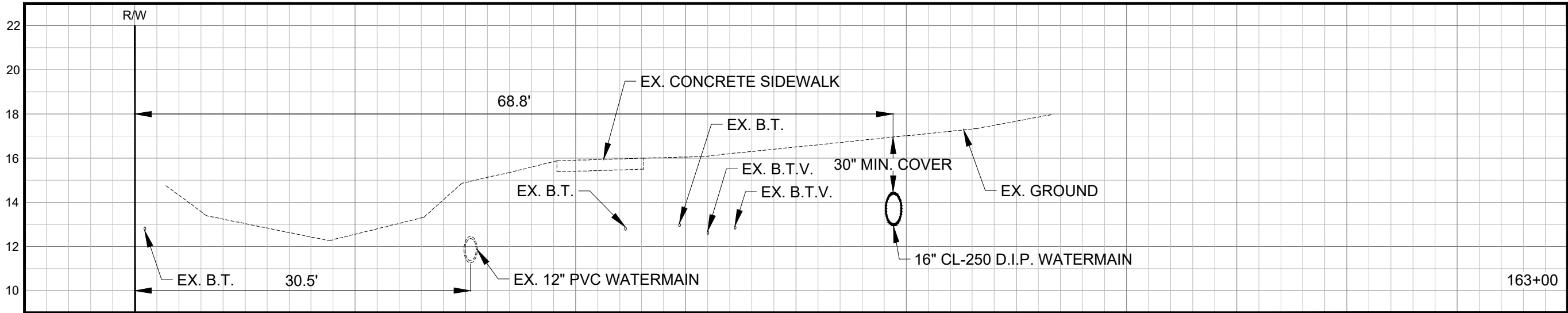
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SURVEY = 22759500.DWG

PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS 2022-06-21

PLAN AND PROFILE U.S. 41 (S.R. 45) STA: 182+06 TO END
PROJECT / FILE NO. 23994
SHEET NUMBER 7.15







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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

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LOCATION J:\23994\DWG\DWG

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PLOT BY JAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

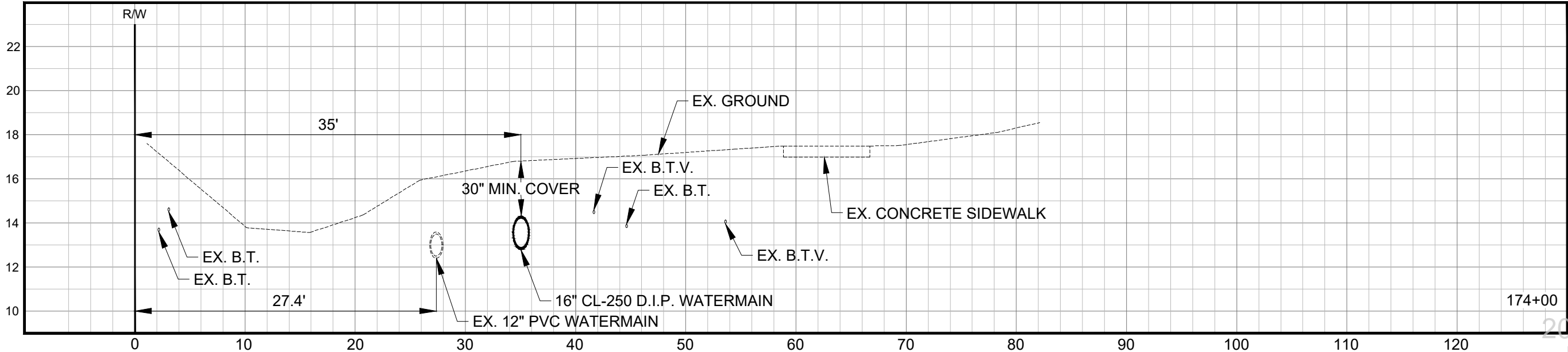
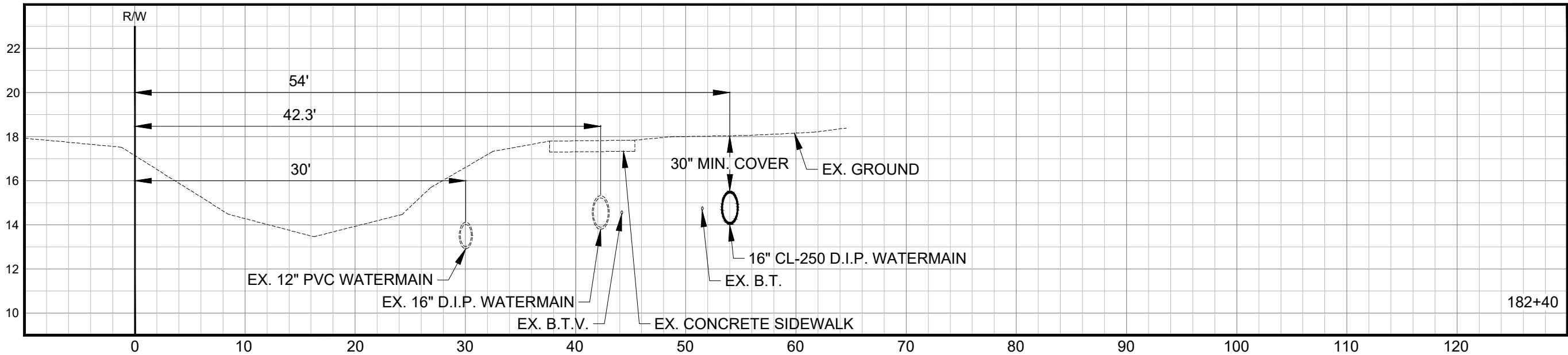
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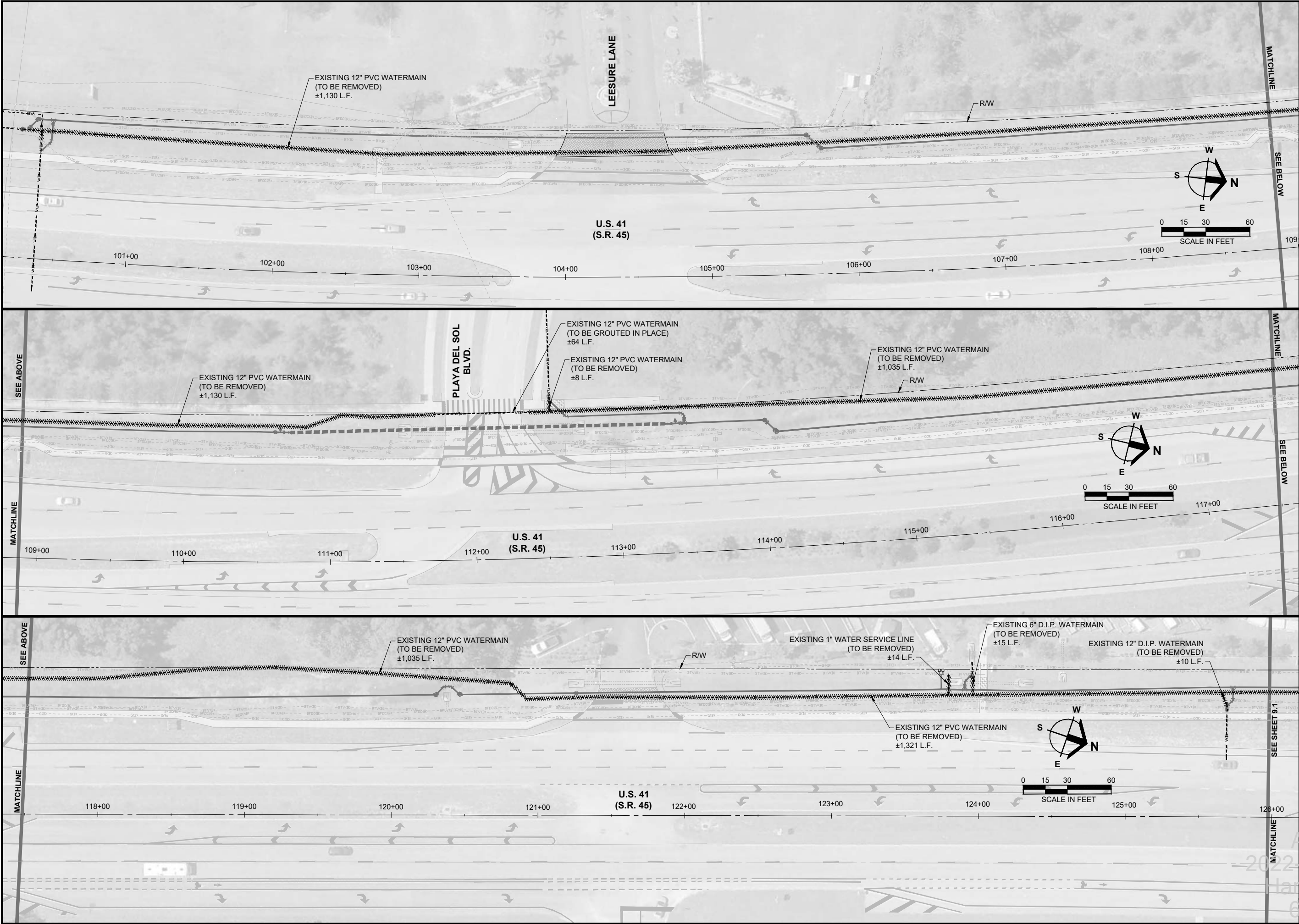
PROJECT / FILE NO.

SHEET NUMBER

23994

8.2





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PROJECT DESCRIPTION

NORTH U.S. 41
(S.R. 45)
16-INCH WATER MAIN

LITTLETON ROAD TO
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PART OF SECTION 22 & 27,
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LOCATIONJ:23994\DWG\DOJ

PLOT DATETUE. 6-21-2022 - 9:55 AM

PLOT BYJAN BILDZUKEWICZ

CROSS REFERENCED DRAWINGS

BASEPLAN = 23994A00.DWG
SURVEY = 22759S00.DWG

PLAN REVISIONS

PLAN STATUS

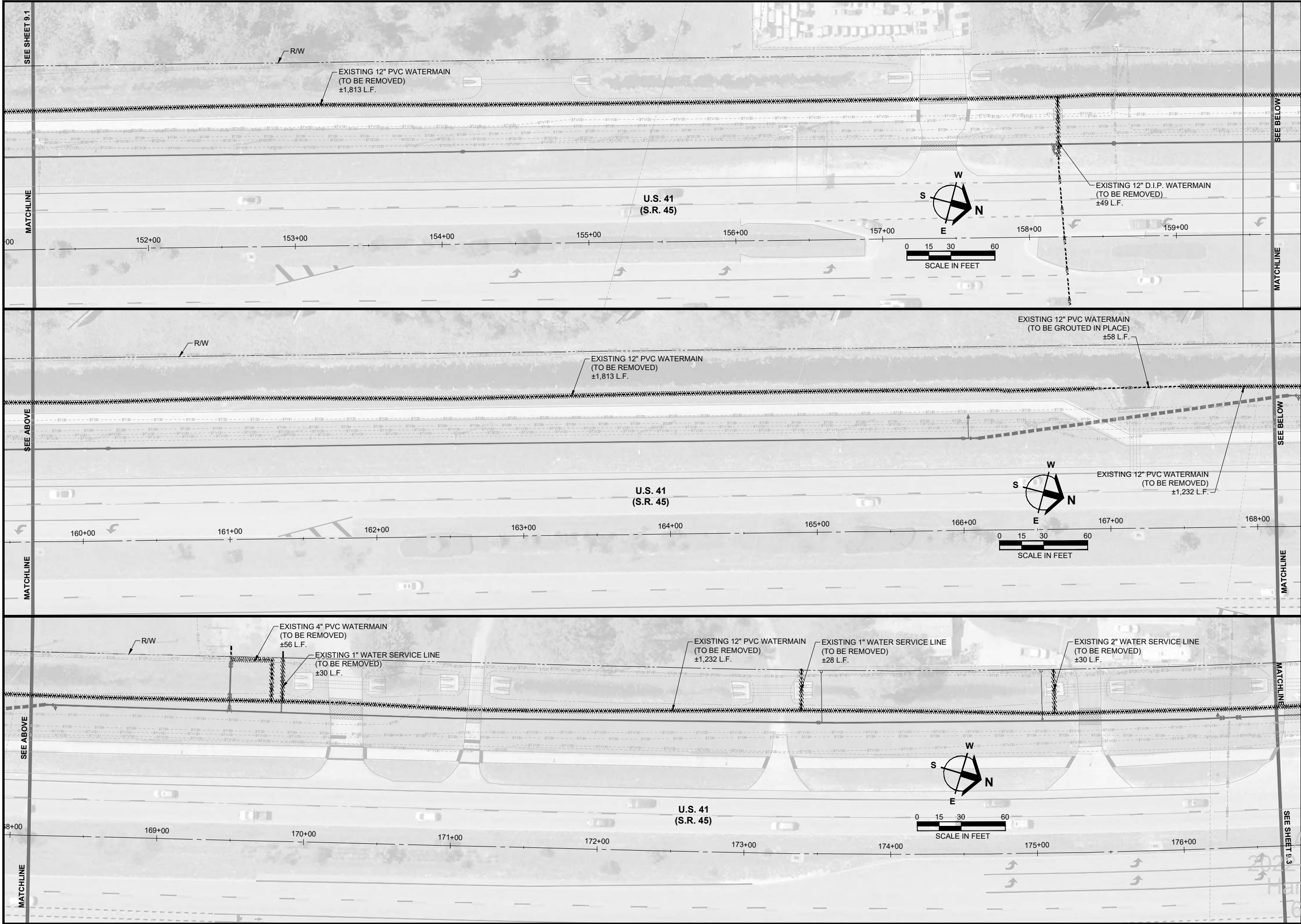
100% SUBMITTAL PLANS
2022-06-21

Approved

2022-06-21

23994

9.0



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LEE COUNTY

1500 MONROE STREET
FORT MYERS, FLORIDA 33901
PHONE (239) 533-8181
FAX (239) 485-8845
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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

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LOCATION J:\23994\DWG\DWG
PLOT DATE TUE. 6-21-2022 - 9:56 AM
PLOT BY JAN BILDZUKEWICZ

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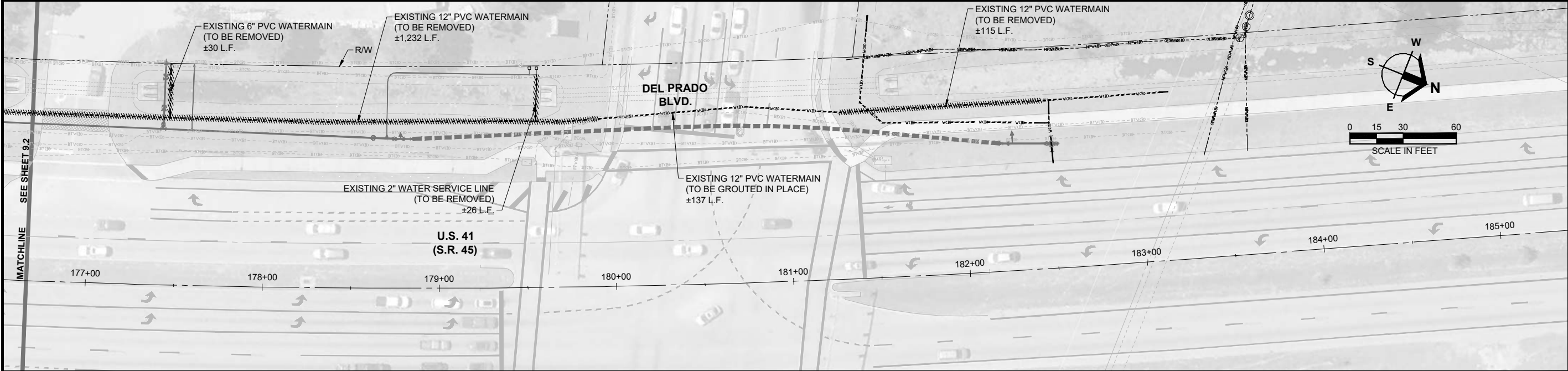
PLAN REVISIONS	

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

GROUTING
AND REMOVAL
PLAN

PROJECT / FILE NO. 23994 SHEET NUMBER 9.2



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FORT MYERS, FLORIDA 33902-2800
PHONE (239) 461-3170
FAX (239) 461-3169

FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

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LEE COUNTY

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FORT MYERS, FLORIDA 33901
PHONE (239) 533-8181
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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,
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FORT MYERS, LEE COUNTY, FLORIDA

ENGINEER OF RECORD
WESLEY S. KAYNE, P.E., FOR THE FIRM
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PLOT BY	JAN BILDZUKEWICZ

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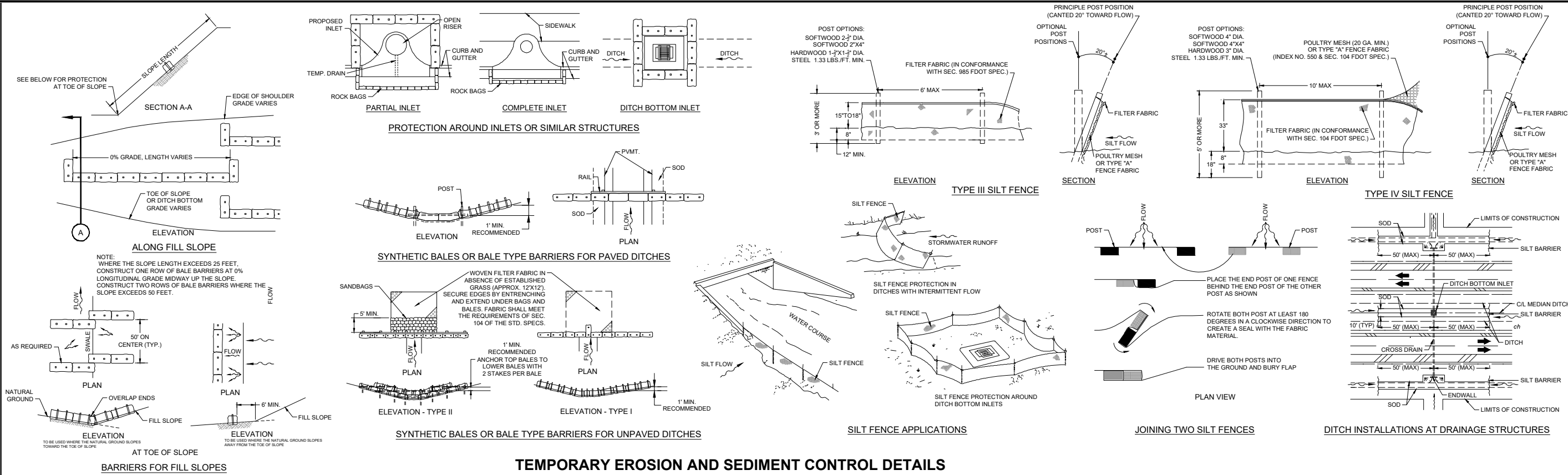
PLAN REVISIONS	

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

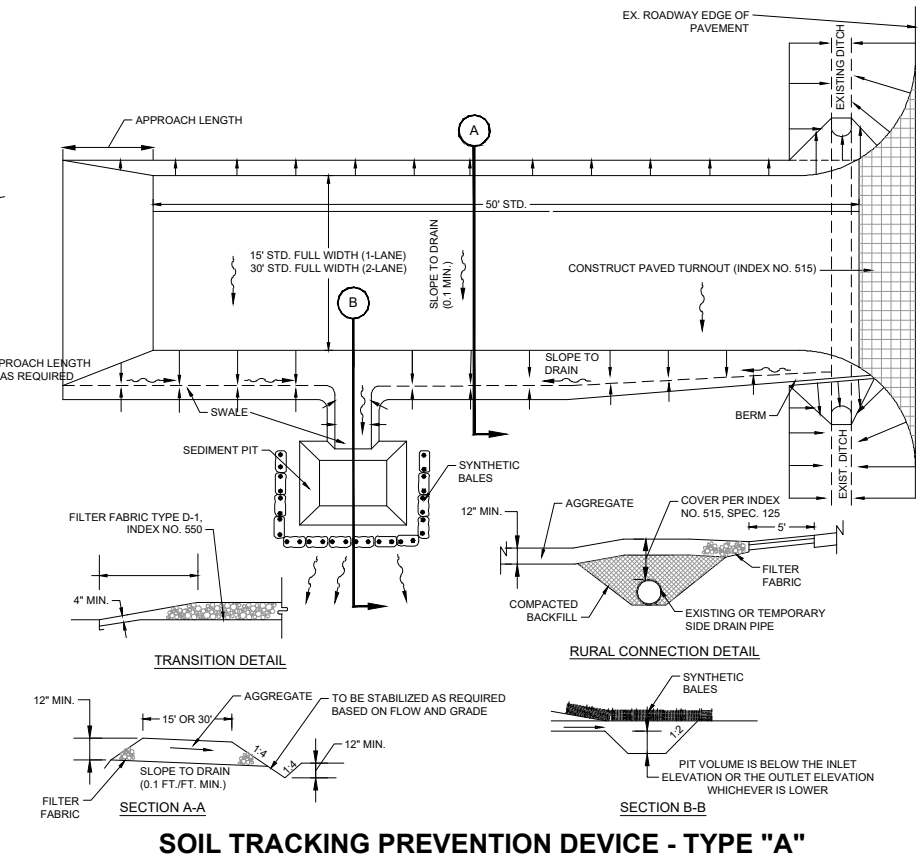
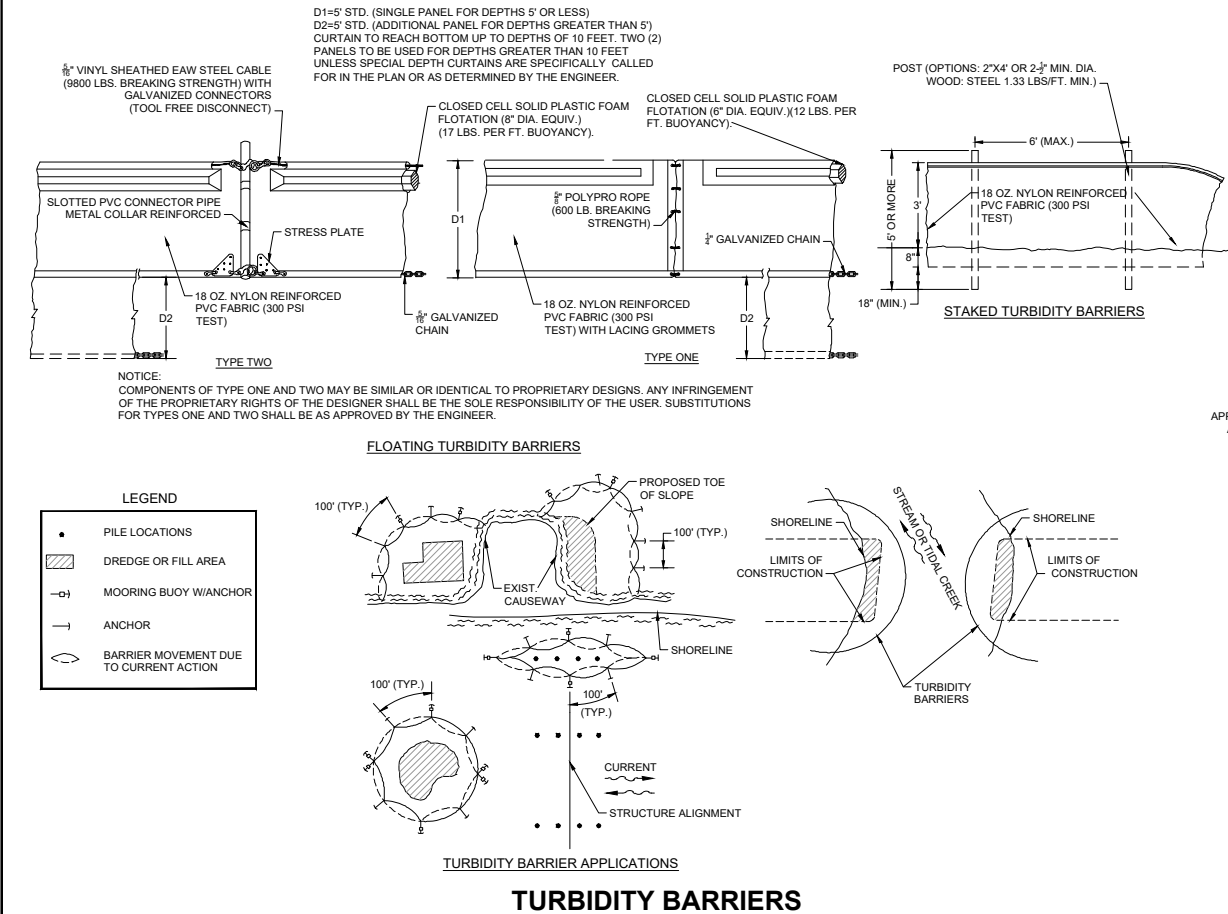
Approved
2022-06-21
Harris Gliddens
6/23/2022

PROJECT / FILE NO.	SHEET NUMBER
23994	9.3



TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS

NOTE: NOT ALL NOTES, DETAILS, SYMBOLS OR OTHER STANDARDS SHOWN ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT



EROSION CONTROL NOTES:

- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF-SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
- THE CONTRACTOR SHALL SUPPLEMENT THIS PLAN AS REQUIRED TO CONTROL AND REDUCE SOIL EROSION BASED ON THE CONTRACTOR'S METHODS AND TECHNIQUE OF CONSTRUCTION. IT IS RECOMMENDED THAT THE CONTRACTOR COMPLY WITH THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS SECTION 104 (PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION) AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (THE "E&S MANUAL").
- THE DETAILS ON THIS SHEET REPRESENT TYPICAL BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL. THEY MAY NOT SATISFY ALL REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND / OR SPECIFIC PERMIT CONDITIONS AND ALL MAY NOT APPLY TO THIS PROJECT.
- THE CONTRACTOR AND/OR OWNER SHALL VERIFY THAT THE RESPONSIBLE ENTITY HAS OBTAINED A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT FROM THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) / F.D.E.P. AND LOCAL REGULATORY AGENCY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL CREATE, IMPLEMENT AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN AS REQUIRED BY THE N.P.D.E.S. GENERAL PERMIT.
- AREAS LOCATED ADJACENT TO WETLAND / UPLAND PRESERVE AREAS SHALL BE STABILIZED WITH SOD (OR AS CALLED FOR ON DETAILED PLANS) IMMEDIATELY UPON ACHIEVING FINAL GRADE.
- EROSION CONTROL DEVICES WILL BE INSTALLED ALONG THE BOUNDARY OF THE CONSERVATION AREAS, PRESERVES AND/OR WETLAND AREAS PRIOR TO CONSTRUCTION. THESE DEVICES SHALL BE SILT SCREENS AND, IF NECESSARY, SYNTHETIC BALES. THESE DEVICES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND THE ADJACENT CONSTRUCTION ZONES ARE ESTABLISHED.
- CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL METHODS UPON COMPLETION OF SOIL STABILIZATION FOR THE PROJECT. AT THAT TIME THE RESPONSIBLE ENTITY SHALL FILE AN N.P.D.E.S. STORMWATER POLLUTION PREVENTION PLAN NOTICE OF TERMINATION WITH THE F.D.E.P.
- DURING CONSTRUCTION, INLET OPENINGS, WHERE APPROPRIATE, SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS FROM FALLING INTO THE INLET.
- CONTRACTOR SHALL UTILIZE APPROPRIATE METHODS TO CONTROL WIND EROSION AND DUST. ALL AREAS SHALL BE STABILIZED AS NECESSARY TO CONTROL EROSION WITHIN 7 DAYS OF FINAL GRADING.
- FOR ADDITIONAL EROSION CONTROL DETAILS NOT SHOWN ON THIS PLAN, SEE F.D.O.T. ROADWAY STANDARDS INDEX DRAWINGS.

CONTRACTOR RESPONSIBILITIES:

- PREPARE AND SIGN A NOTICE OF INTENT FORM (N.O.I.) AND SUBMIT TO THE REGULATORY AGENCY ALONG WITH ANY REQUIRED FEES AND ATTACHMENTS. OR ASSURE THAT AN N.O.I. HAS BEEN FILED AS REQUIRED.
- IMPLEMENT THE STABILIZATION, EROSION CONTROL AND OTHER REQUIREMENTS OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
- PROVIDE QUALIFIED INSPECTORS, AND DOCUMENTATION OF QUALIFICATIONS, FOR THE CONTROLS IMPLEMENTED AT THE JOB SITE.
- CONDUCT ALL NECESSARY INSPECTIONS AT THE REQUIRED INTERVALS AND PREPARE AND RETAIN WRITTEN DOCUMENTATION OF THOSE INSPECTIONS AND ALL OTHER WRITTEN DOCUMENTATION REQUIRED BY THE GENERAL PERMIT.
- KEEP A COPY OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, ALL N.O.I.'S, PERMIT CERTIFICATES, PERMIT LANGUAGE, SPILL PREVENTION, COUNTERMEASURES, AND CLEANUP ("S.P.C.C.") PLAN, INSPECTION RECORDS, AND OTHER REQUIRED RECORDS ON THE JOB SITE AND POST IN A PROMINENT PLACE NEAR THE JOB SITE ENTRANCE THOSE DOCUMENTS REQUIRED TO BE POSTED UNDER THE TERMS OF THE GENERAL PERMIT.
- CONTRACTOR SHALL PROVIDE MONTHLY TRAINING SESSIONS FOR ALL ENTITIES AND SUBCONTRACTORS INVOLVED WITH INSTALLING, APPLYING, PERFORMING, MAINTAINING AND INSPECTION OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
- UPDATE AND MAKE CHANGES TO THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND SUPPORTING DOCUMENTS (SUCH AS THE B.M.P.'S AND / OR S.P.C.C.) AS NEEDED AND WITH THE APPROVAL OF THE OPERATOR AND THE OPERATOR'S ENGINEER.
- PREPARE AND SIGN A NOTICE OF TERMINATION (N.O.T.) FORM WHEN SITE WORK CONSTRUCTION IS COMPLETED AND STABILIZATION IS ACHIEVED. TRANSFER THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN DOCUMENTS, ALONG WITH ALL N.O.I.'S, PERMIT CERTIFICATES, N.O.T.'S, AND WRITTEN RECORDS REQUIRED BY THE GENERAL PERMIT TO THE OPERATOR FOR ARCHIVING IN BOTH PAPER AND OPTICALLY-SCANNED FORMAT ON A CD.

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PROJECT DESCRIPTION

NORTH U.S. 41

(S.R. 45)

16-INCH WATER MAIN

LITTLETON ROAD TO
DEL PRADO BOULEVARD

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TOWNSHIP 43 SOUTH,
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FORT MYERS, LEE 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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PLOT BY JAN BILDZUKEWICZ

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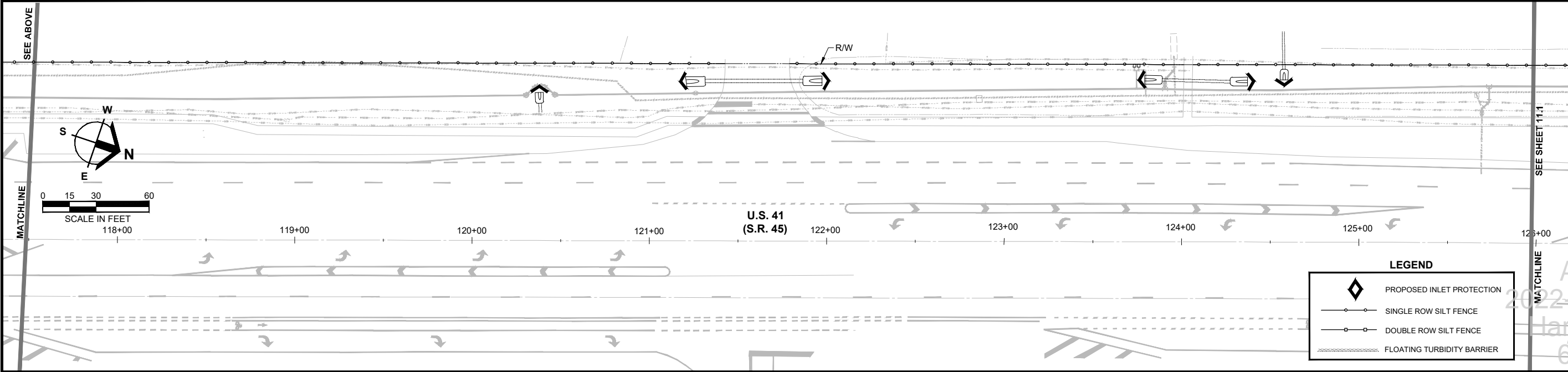
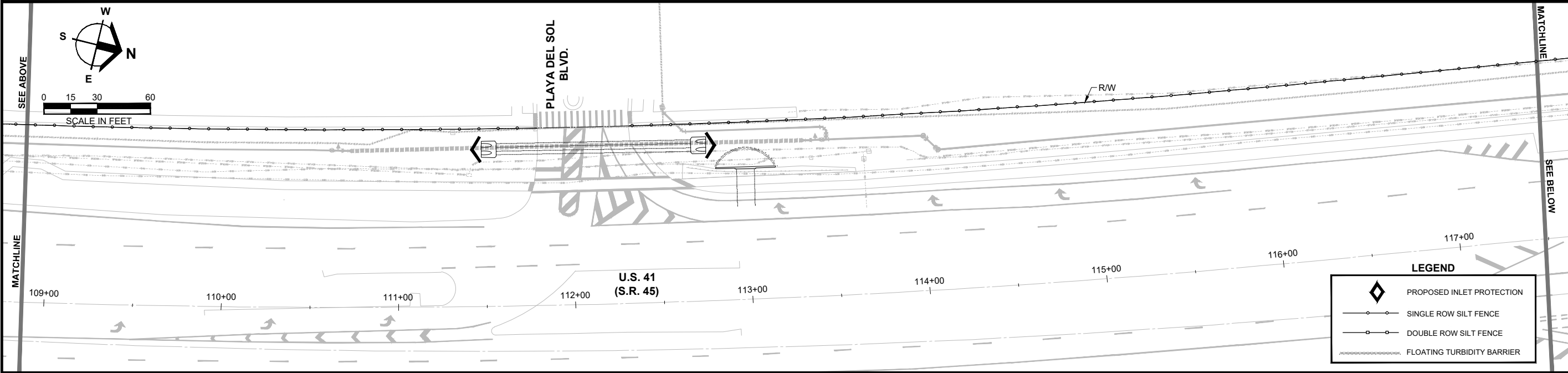
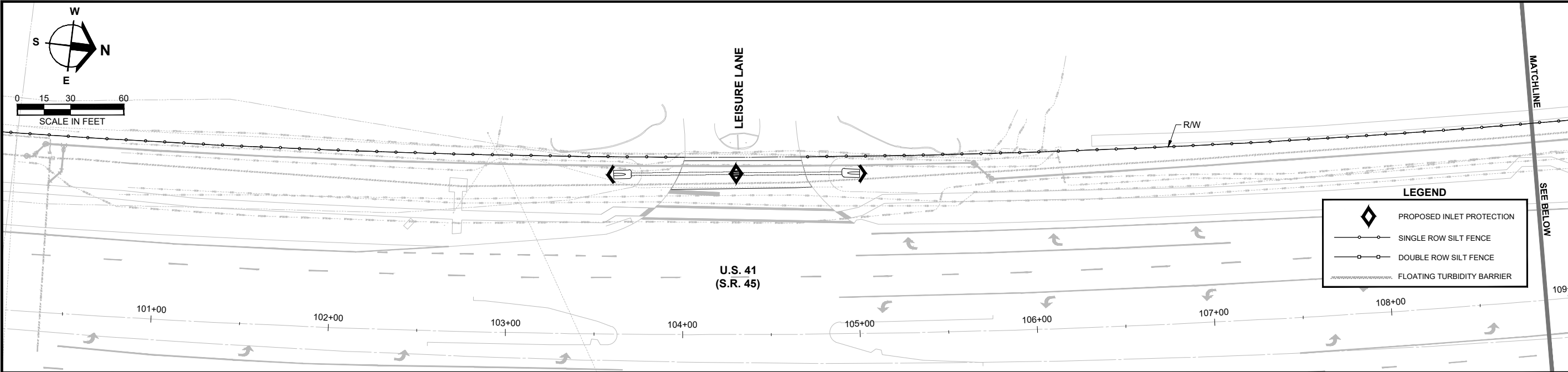
PLAN REVISIONS

PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

EROSION
CONTROL
DETAILS

PROJECT / FILE NO. 23994 SHEET NUMBER 10.0

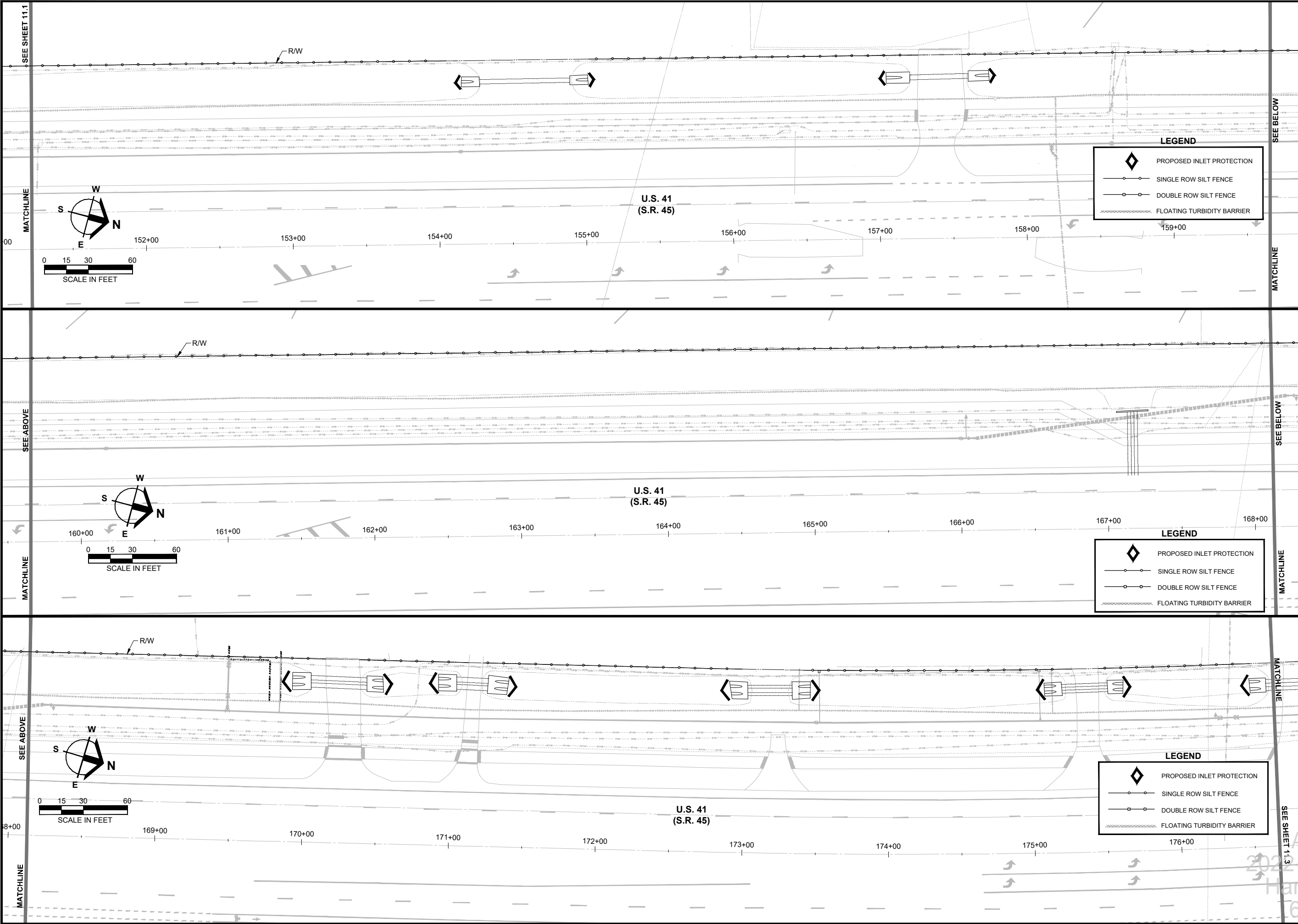


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ENGINEERING 7995 - SURVEYING LB-6940

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FORT MYERS, FLORIDA 33901
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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

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PLOT BY: JAN BILDZUKEWICZ
CROSS REFERENCED DRAWINGS
BASEPLAN = 23994A00.DWG
SURVEY = 22759500.DWG
PLAN REVISIONS
PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21
STORMWATER
POLLUTION
PREVENTION PLAN
PROJECT / FILE NO. SHEET NUMBER
23994 11.0



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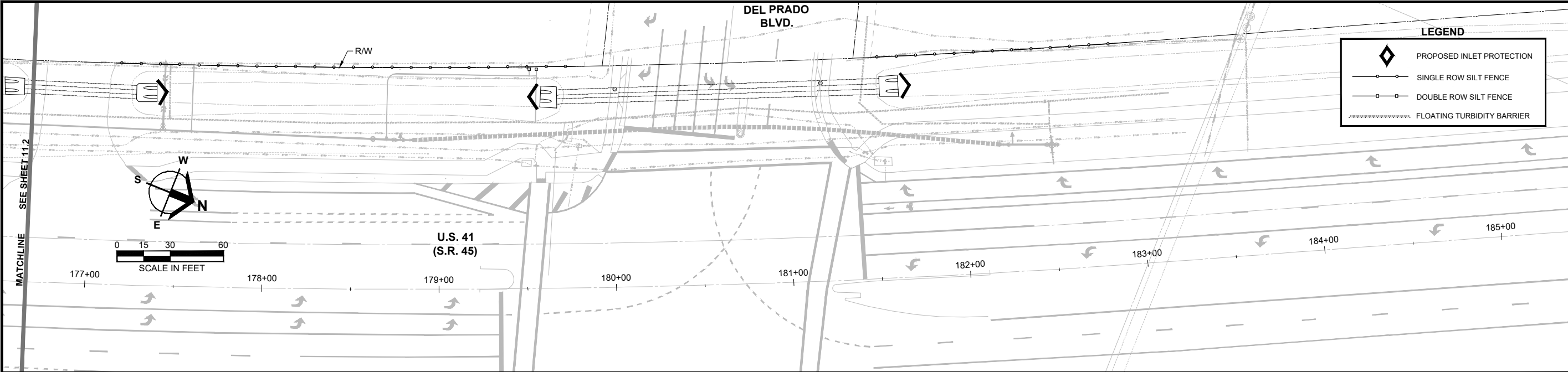
PLAN REVISIONS

PLAN STATUS
100% SUBMITTAL PLANS
2022-06-21

Approved
2022 H-135
Harris
6/23/2022

**STORMWATER
POLLUTION
PREVENTION PLAN**

PROJECT / FILE NO. 23994 SHEET NUMBER 11.2



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LEE COUNTY

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FORT MYERS, FLORIDA 33901
PHONE (239) 533-8181
FAX (239) 485-8845

WWW.LEE.GOV.COM/UTILITIES

PROJECT DESCRIPTION

NORTH U.S. 41
(S.R. 45)
16-INCH WATER MAIN

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PART OF SECTION 22 & 27,
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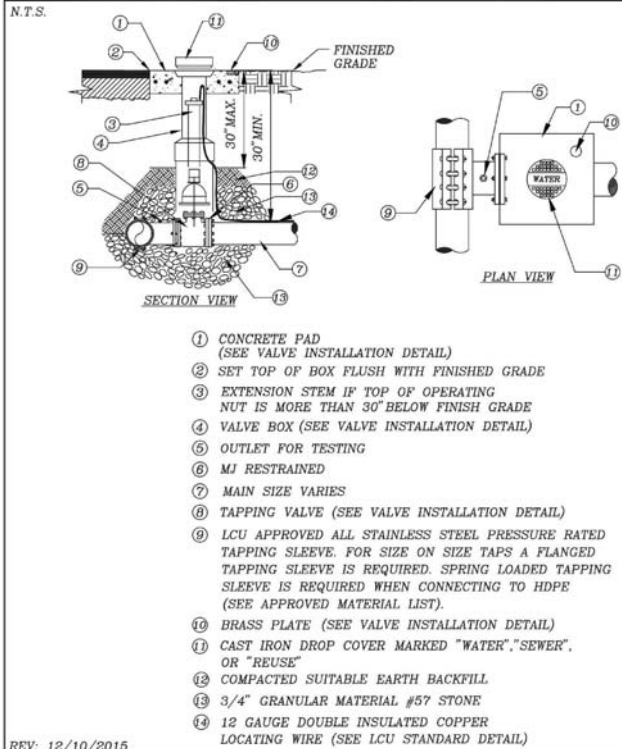
PLAN STATUS
100% SUBMITTAL PLANS 2022-06-21

Approved
2022-H-135
Harris
6/23/2022

STORMWATER
POLLUTION
PREVENTION PLAN

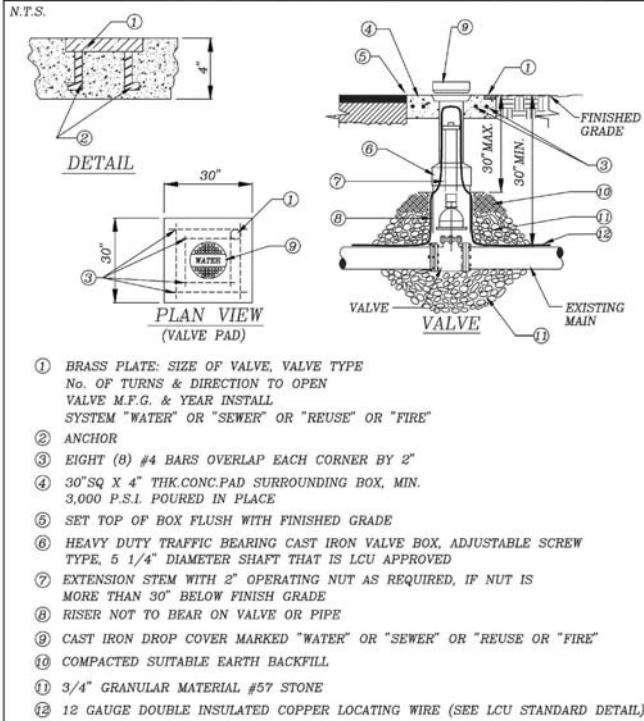
PROJECT / FILE NO.	SHEET NUMBER
23994	11.3

STANDARD DETAIL NO. 6.1
LEE COUNTY UTILITIES
TAPPING SLEEVE AND VALVE



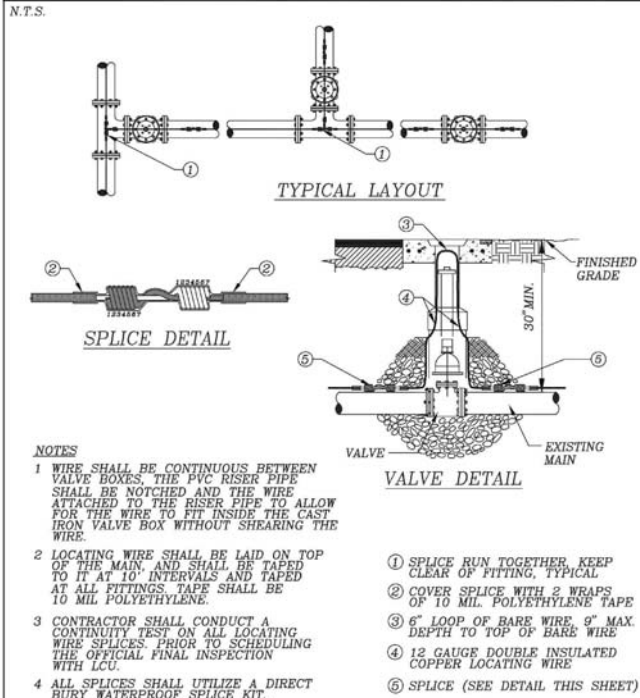
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LEE COUNTY UTILITIES
VALVE INSTALLATION



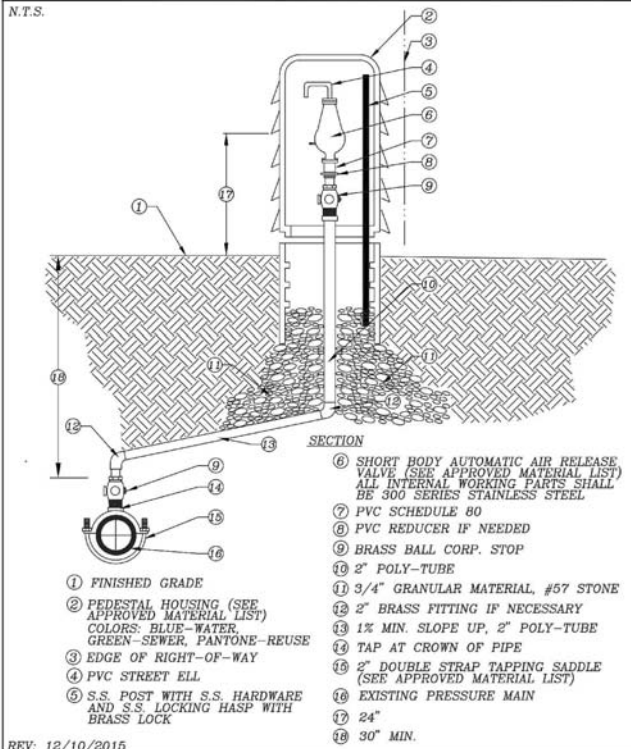
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STANDARD DETAIL NO. 6.3
LEE COUNTY UTILITIES
LOCATING WIRE FOR PRESSURE MAINS



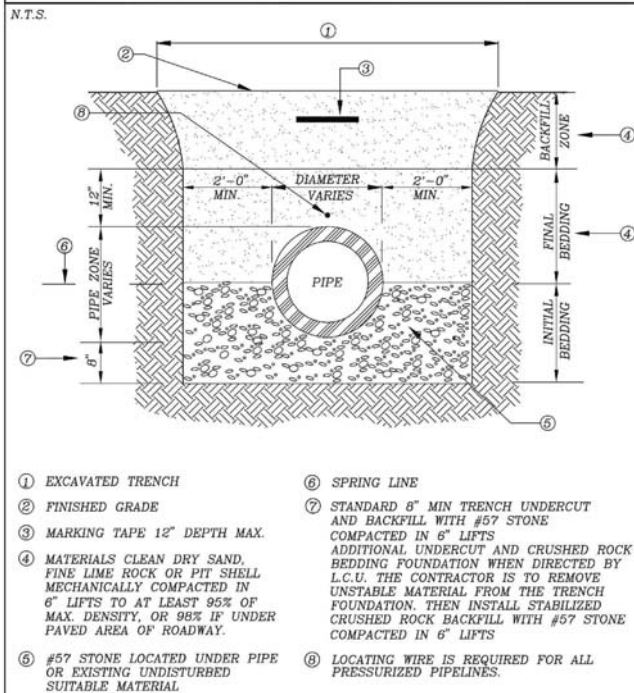
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STANDARD DETAIL NO. 6.4
LEE COUNTY UTILITIES
AUTOMATIC AIR RELEASE VALVE



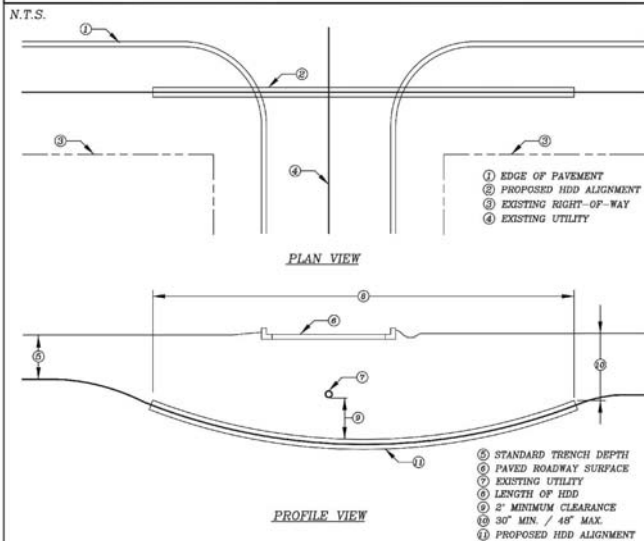
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STANDARD DETAIL NO. 6.5
LEE COUNTY UTILITIES
TRENCH CROSS SECTION



REV: 12/10/2015

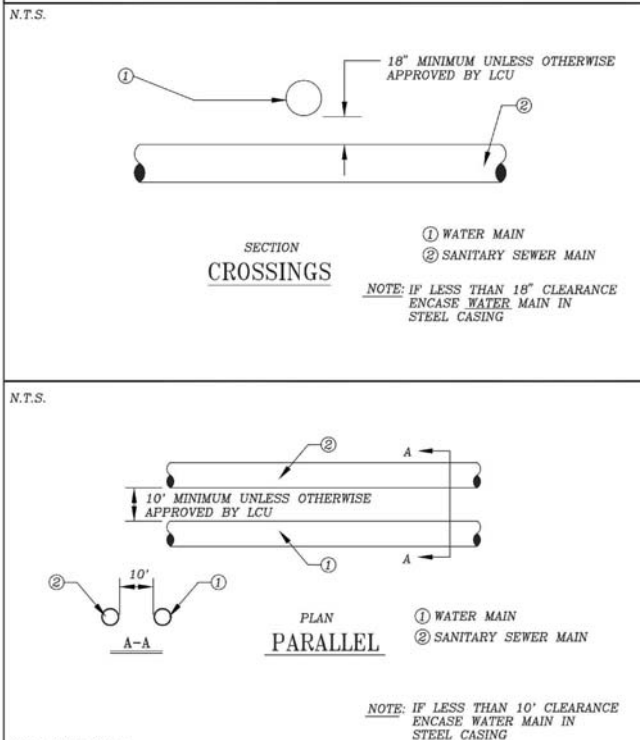
STANDARD DETAIL NO. 6.7
LEE COUNTY UTILITIES
HORIZONTAL DIRECTIONAL DRILL UNDER A ROADWAY



HDD INSTALLATION NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LEE COUNTY UTILITIES DESIGN MANUAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. ALL RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
5. CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
6. NO CASING SPACERS REQUIRED.
7. WHEN CASING IS REQUIRED INSTALL 1" HDPE PIPE ATTACHED TO THE CARRIER PIPE WITH 12 GAUGE DOUBLE INSULATED COPPER WIRE INSIDE THE HDPE PIPE.

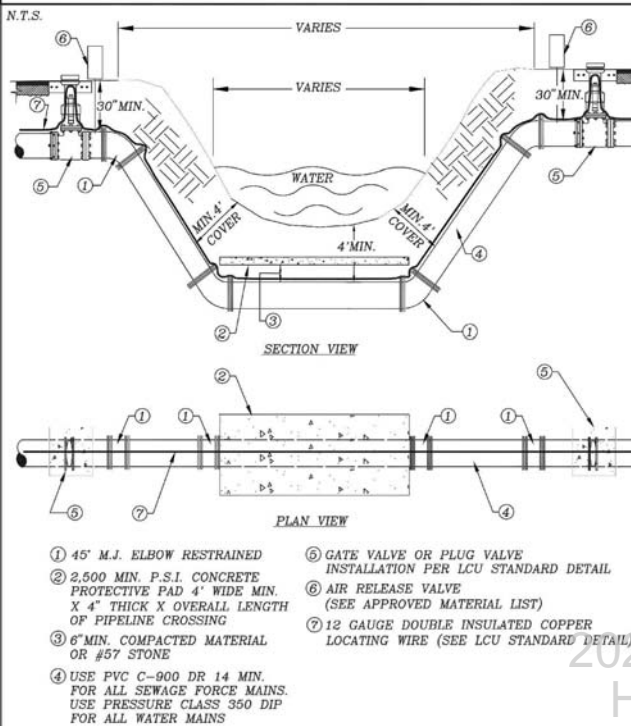
REV: 12/10/2015

STANDARD DETAIL NO. 6.8
LEE COUNTY UTILITIES
WATER AND SEWER CROSSING DETAIL



REV: 12/10/2015

STANDARD DETAIL NO. 6.9
LEE COUNTY UTILITIES
SUBAQUEOUS CROSSING



REV: 12/10/2015

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ENGINEER OF RECORD

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LOCATION J:\23994\DWG\DWG
PLOT DATE TUE. 6-21-2022 - 10:00 AM
PLOT BY JAN BILDZUKEWICZ

THIS DRAWING CONTAINS STANDARD DETAILS
ENGINEERED, DESIGNED AND PROVIDED BY LEE COUNTY
UTILITIES. THESE DETAILS WERE NOT DESIGNED BY
BARRACO AND ASSOCIATES, INC. AND ARE INCLUDED IN
THIS PLAN SET AS REQUIRED BY LEE COUNTY UTILITIES.
THE ENGINEERS CERTIFICATION INDICATES THAT THE
ENGINEER HAS REVIEWED THESE DETAILS AND FOUND
THEM TO BE SUITABLE FOR THIS PROJECT.

PLAN REVISIONS

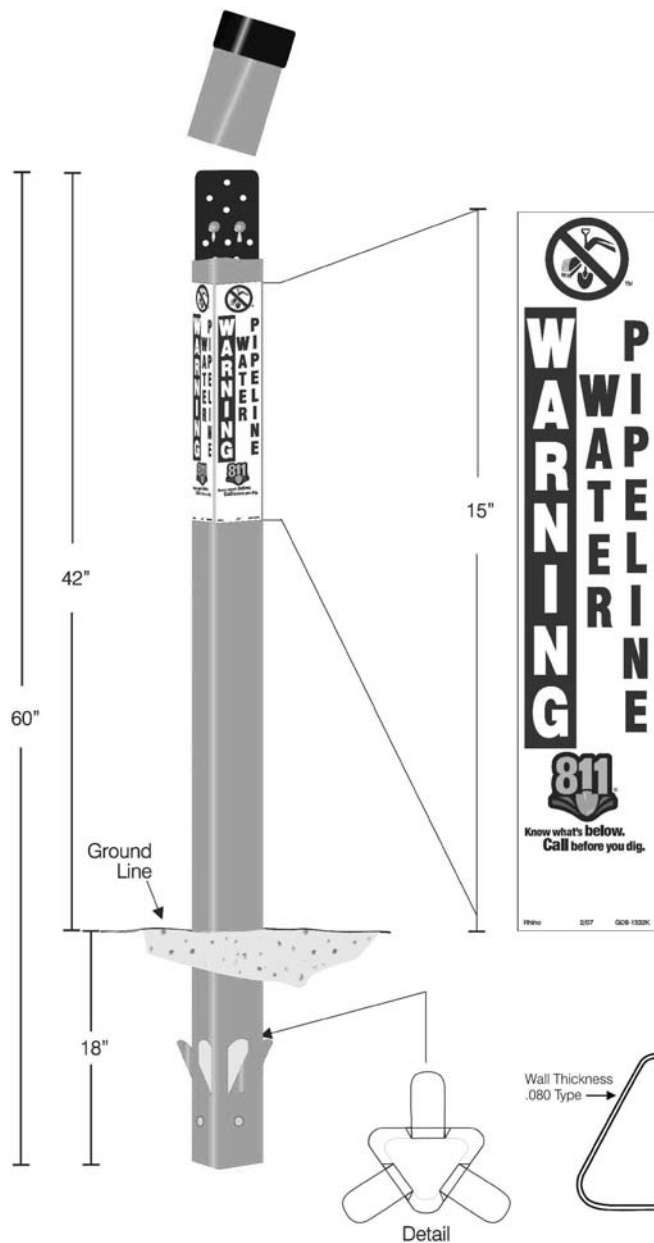
PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

LEE COUNTY
UTILITY
DETAILS

PROJECT / FILE NO. SHEET NUMBER

23994 12.0



Parts List

- 1 - Rhino # TVT160UB2 Rhino TriView™ Test Station, 60" blue with black cap
- 3 - Rhino # GD8-1332 Decals TO BE FACTORY PLACED

WATER PIPELINE WARNING HIGH VISIBILITY
FLEXIBLE TEST STATION WITH INNER
TERMINALS
(DIRECT BURY INSTALLATION)

NOTES:

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.

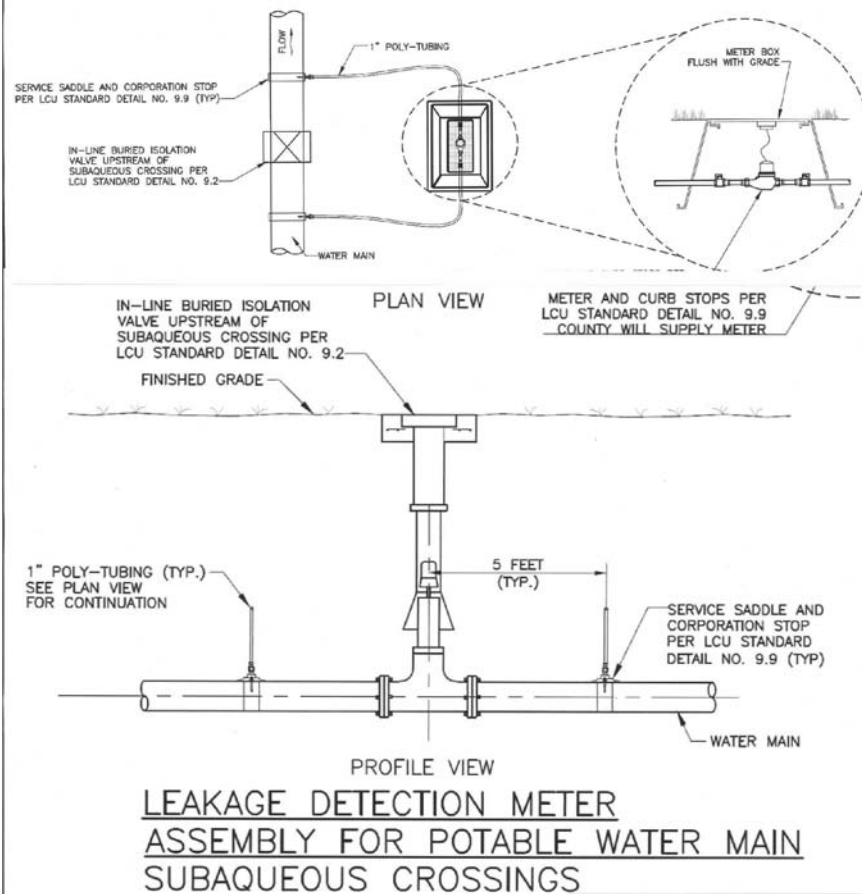
Performance:

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.

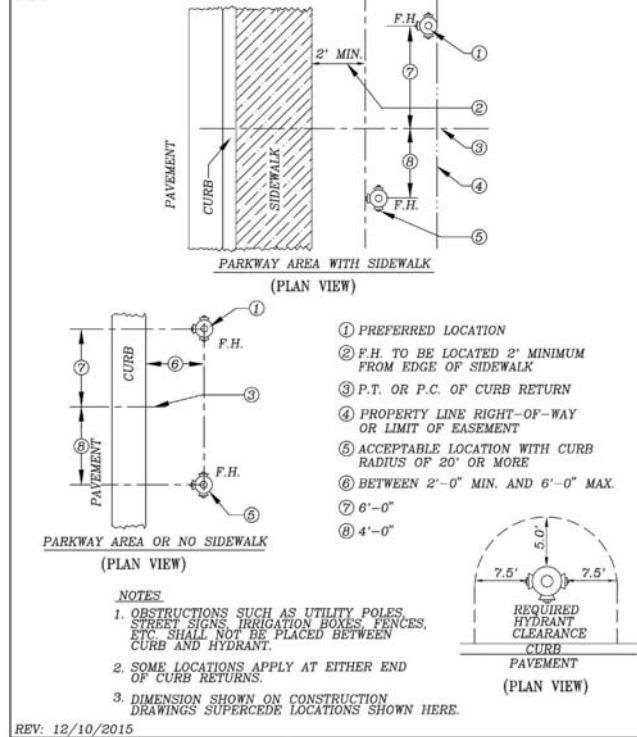
Installation:

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.



STANDARD DETAIL NO. 6.25 LEE COUNTY UTILITIES FIRE HYDRANT LOCATIONS/CLEARANCE

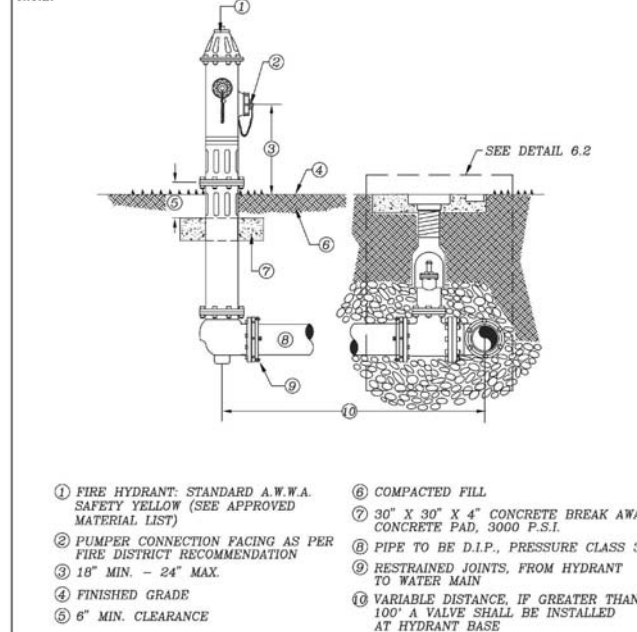
N.T.S.



REV: 12/10/2015

STANDARD DETAIL NO. 6.24 LEE COUNTY UTILITIES FIRE HYDRANT ASSEMBLY

N.T.S.



REV: 12/10/2015

Barraco
and Associates, Inc.
CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING
www.barraco.net
2271 MCGREGOR BLVD., SUITE 100
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 - WSK@BARRACO.NET

DRAWING NOT VALID WITHOUT SEAL, SIGNATURE AND DATE
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FILE NAME: 23994A70.DWG
LOCATION: J:\23994\DWG\DOI
PLOT DATE: TUE. 6-21-2022 - 10:00 AM
PLOT BY: JAN BILDZUKEWICZ

THIS DRAWING CONTAINS STANDARD DETAILS
ENGINEERED, DESIGNED AND PROVIDED BY LEE COUNTY
UTILITIES. THESE DETAILS WERE NOT DESIGNED BY
BARRACO AND ASSOCIATES, INC. AND ARE INCLUDED IN
THIS PLAN SET AS REQUIRED BY LEE COUNTY UTILITIES.
THE ENGINEER'S CERTIFICATION INDICATES THAT THE
ENGINEER HAS REVIEWED THESE DETAILS AND FOUND
THEM TO BE SUITABLE FOR THIS PROJECT.

PLAN REVISIONS

NO.	DESCRIPTION

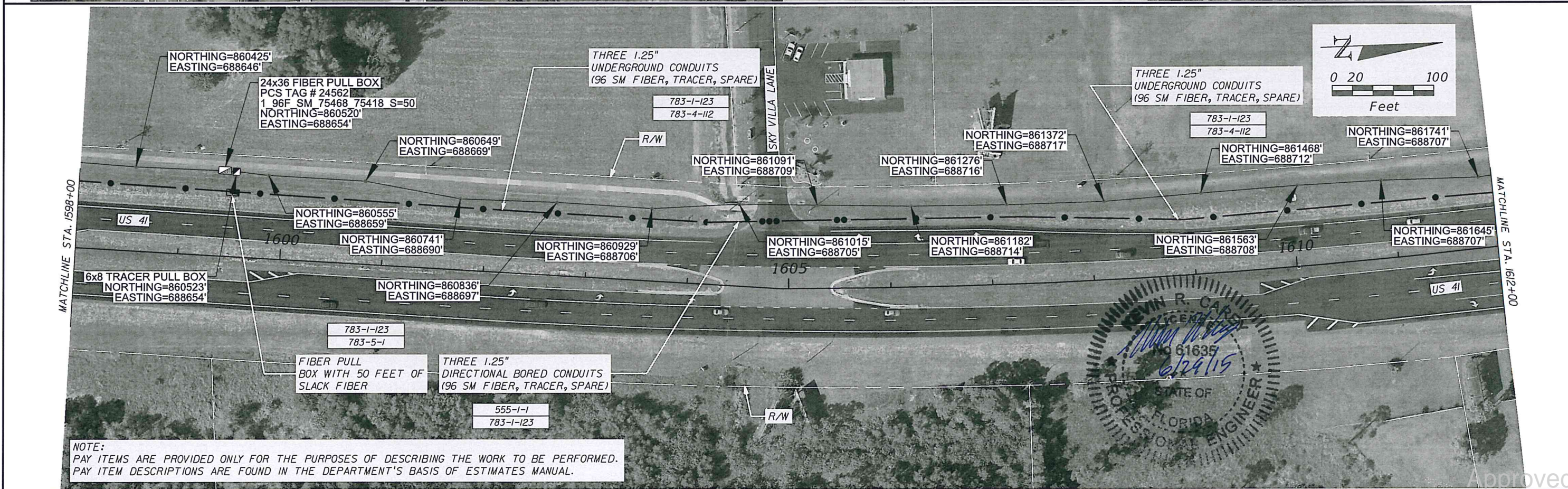
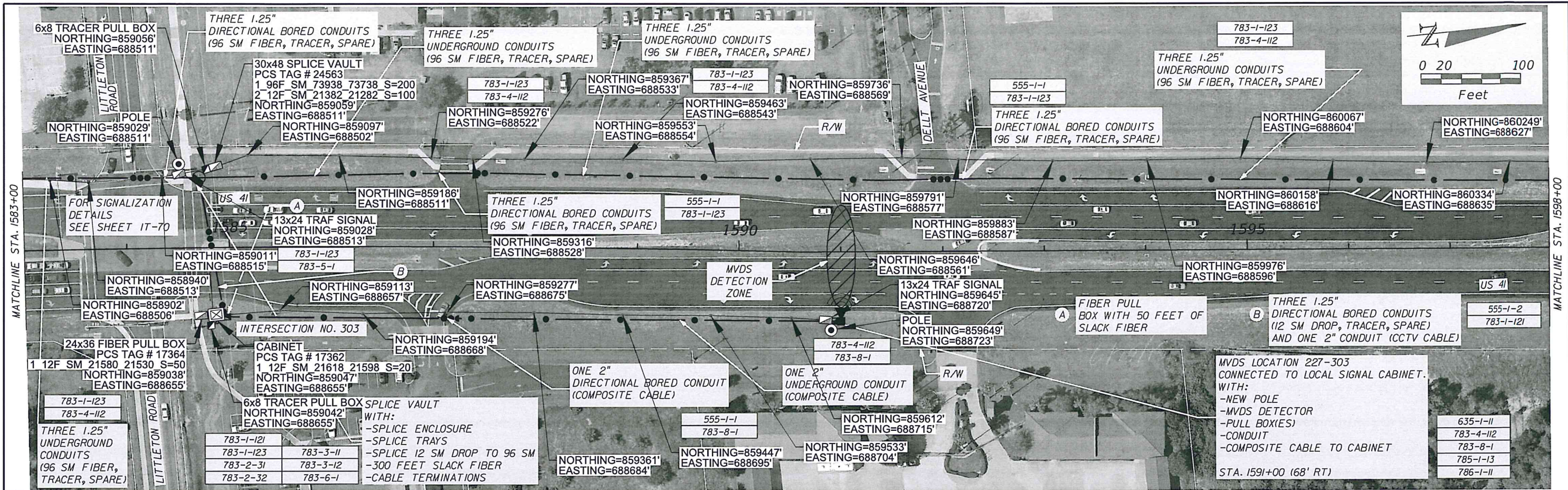
PLAN STATUS

100% SUBMITTAL PLANS
2022-06-21

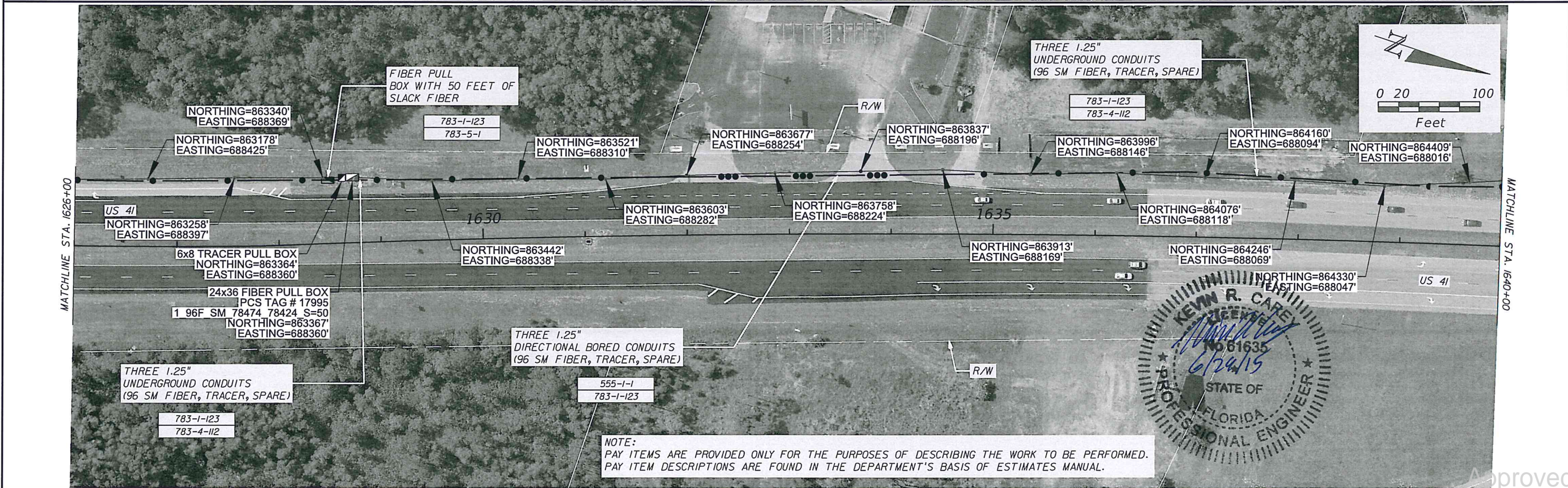
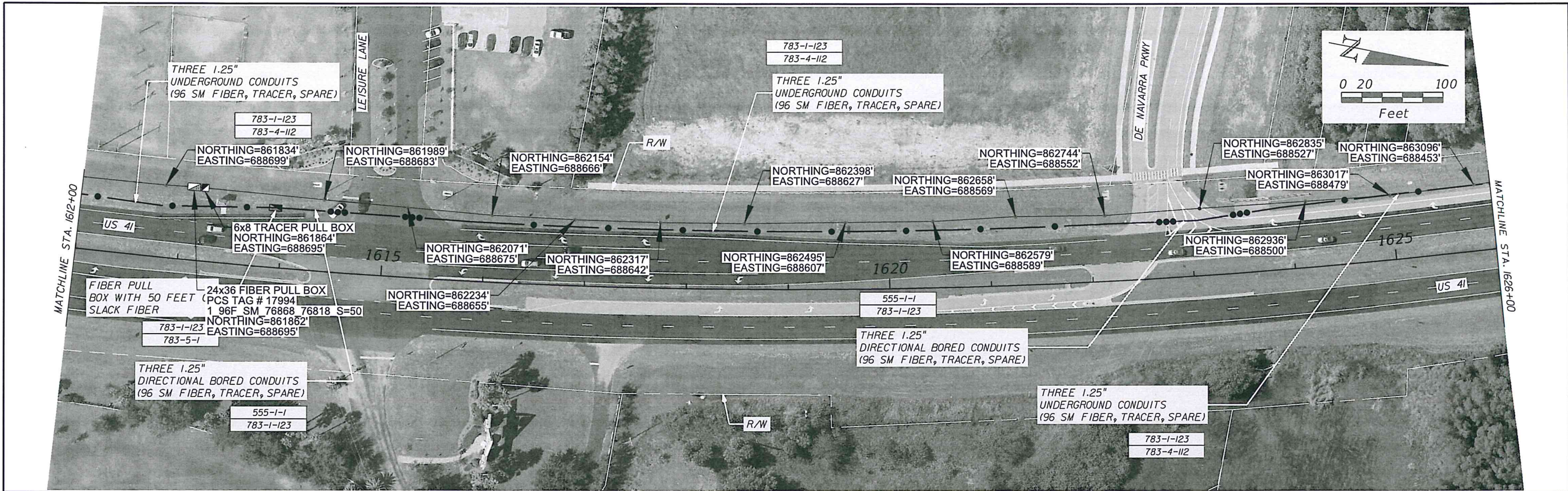
LEE COUNTY
UTILITY
DETAILS

PROJECT / FILE NO. SHEET NUMBER

23994 12.1



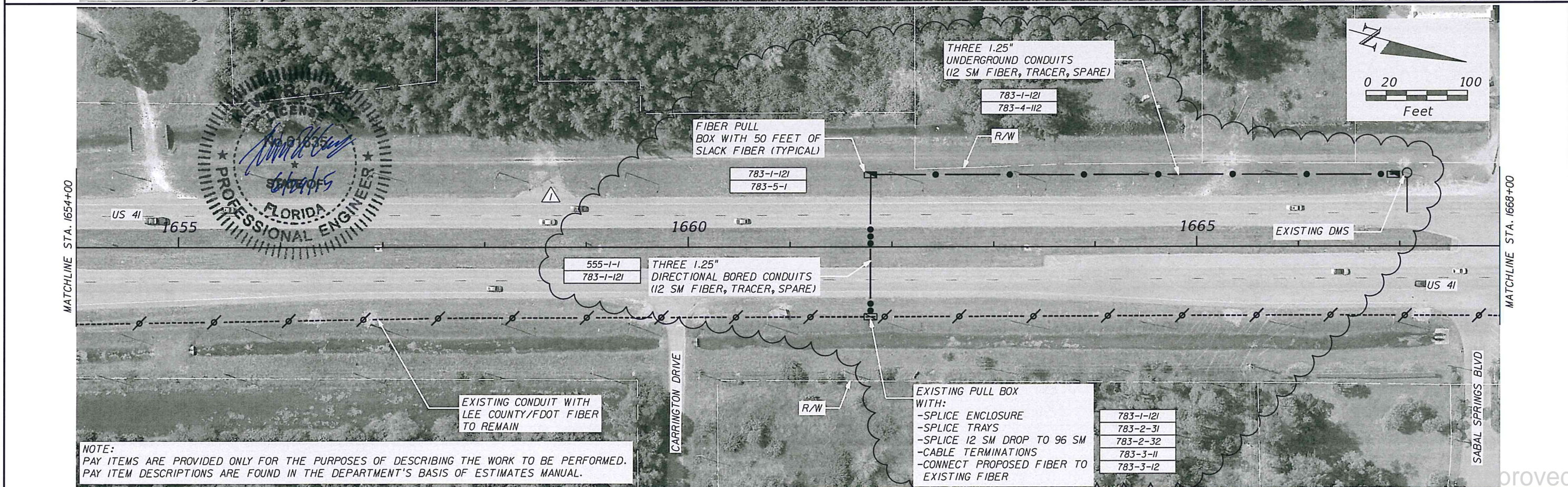
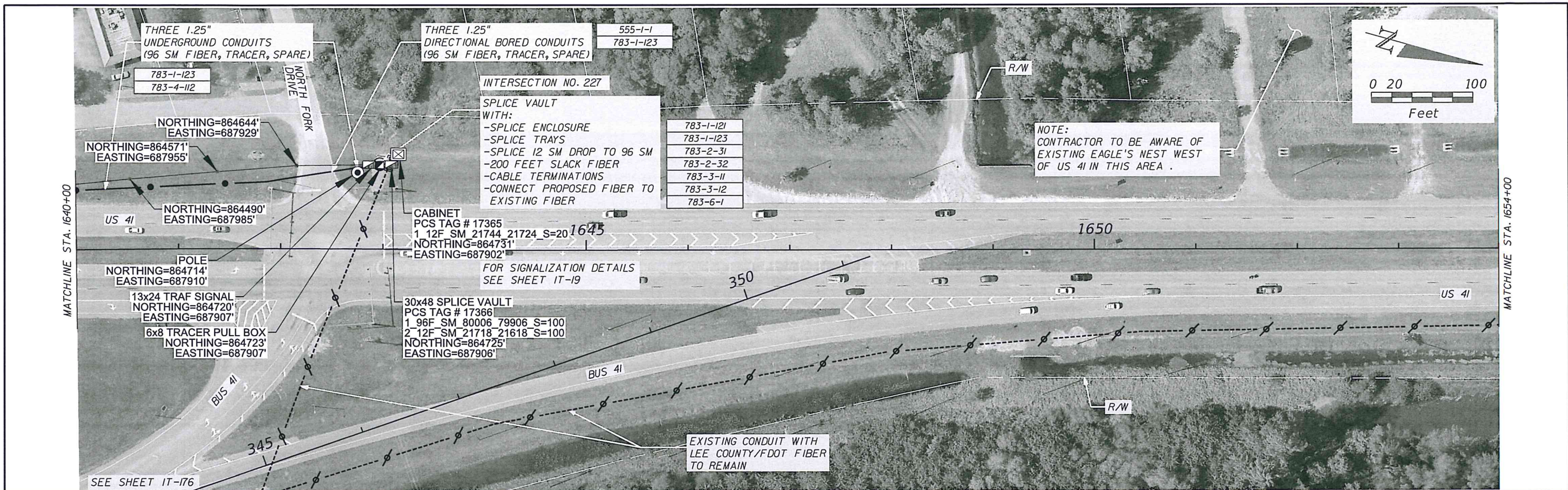
REVISIONS				FALLER, DAVIS & ASSOCIATES, INC. 258 SOUTHHALL LANE - SUITE 210 MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION NO.: 5864 KEVIN R. CAREY, P.E. NO.: 61635	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			2022-H-1500 SHEET NO. 14 <i>INTERCONNECT PLAN (54)</i> Harris Giddens 6/22/2022
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	LEE	412636-2-52-01	



REVISIONS				DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION		

FALLER, DAVIS & ASSOCIATES, INC. 258 SOUTH HALL LANE - SUITE 210 MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION NO.: 5864 KEVIN R. CAREY, P.E. NO.: 61635			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
VARIES		LEE	412636-2-52-01		

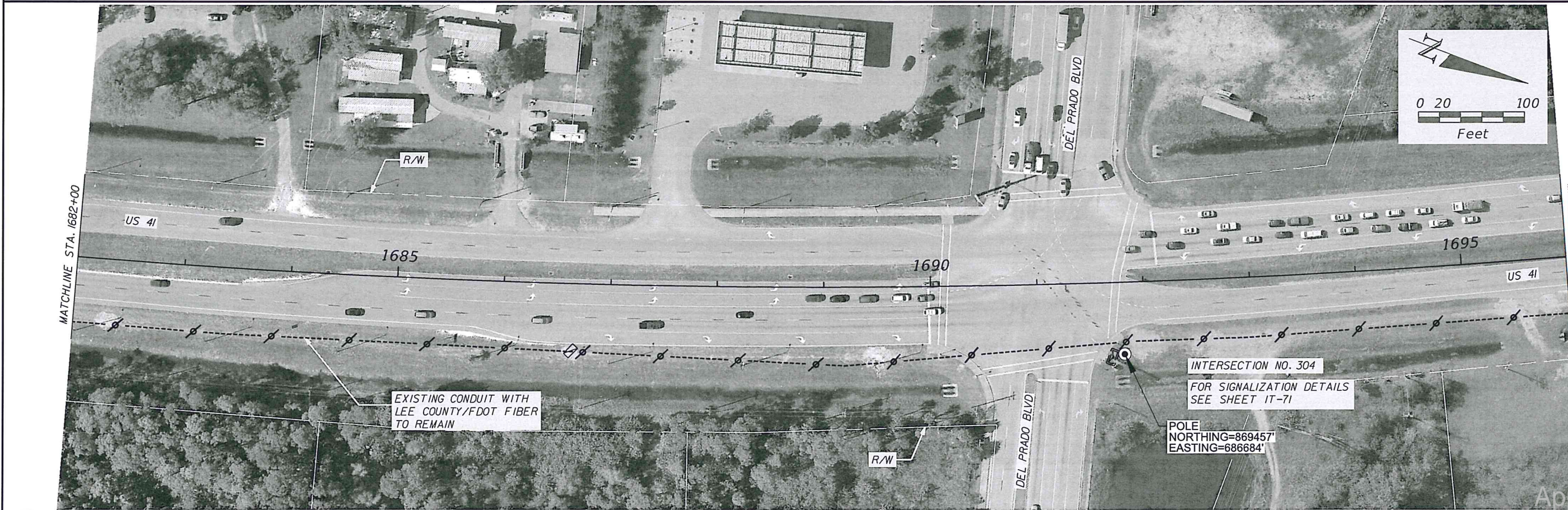
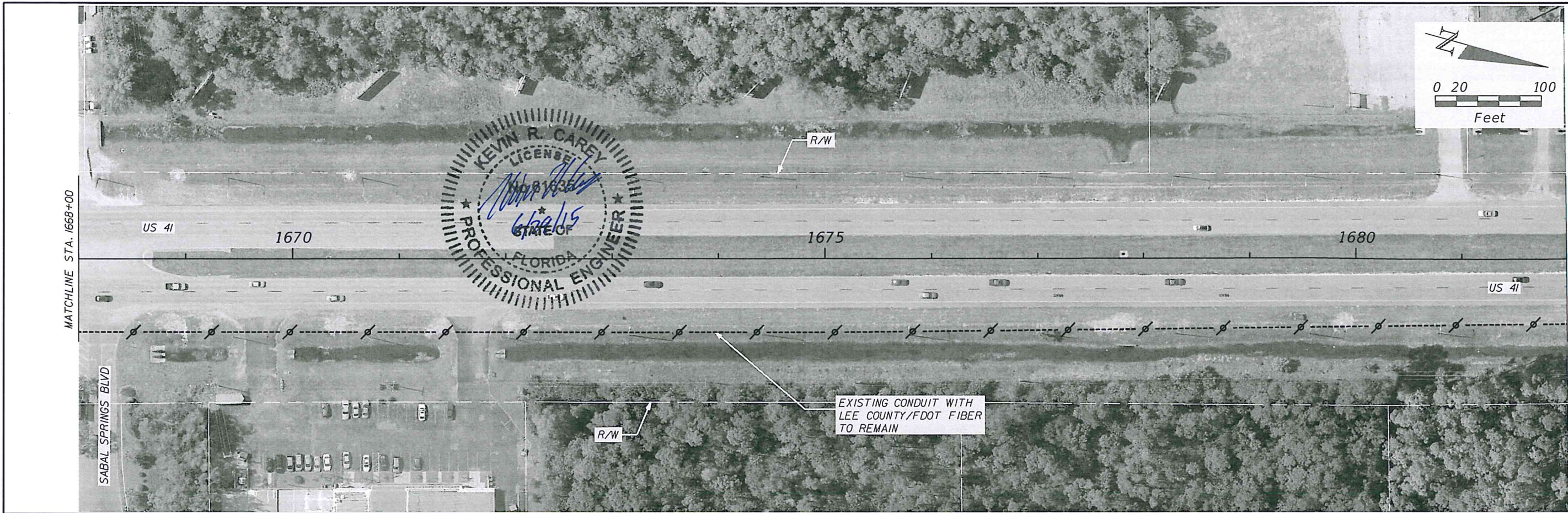
Approved
2022-H-150-00135
Harris Giddens
6/22/2022
SHEET NO. 17-1482



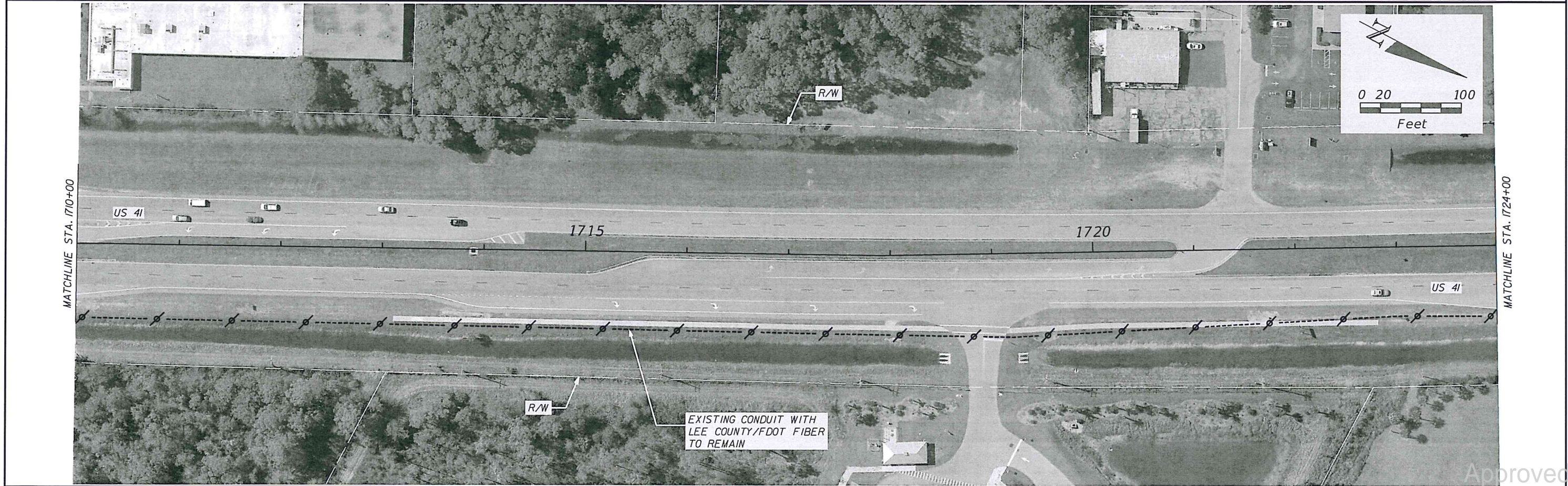
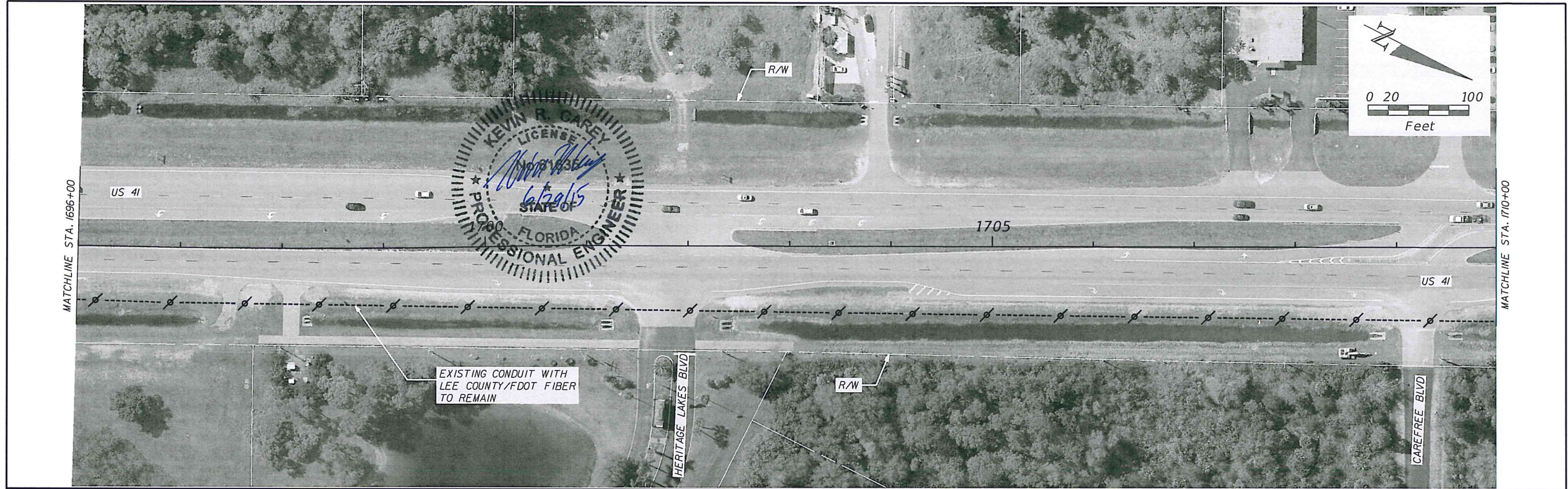
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
4/09/15	ADDED CONDUIT AND PULL BOXES TO EXISTING DMS		

FALLER, DAVIS & ASSOCIATES, INC. 258 SOUTHHALL LANE - SUITE 210 MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION NO.: 5864 KEVIN R. CAREY, P.E. NO.: 61635			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
VARIES	LEE	412636-2-52-01	

INTERCONNECT PLAN (56)		2022-H-10000135 Harris Giddens 6/22/2022
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REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			INTERCONNECT PLAN (57)	SHEET NO. IT-150
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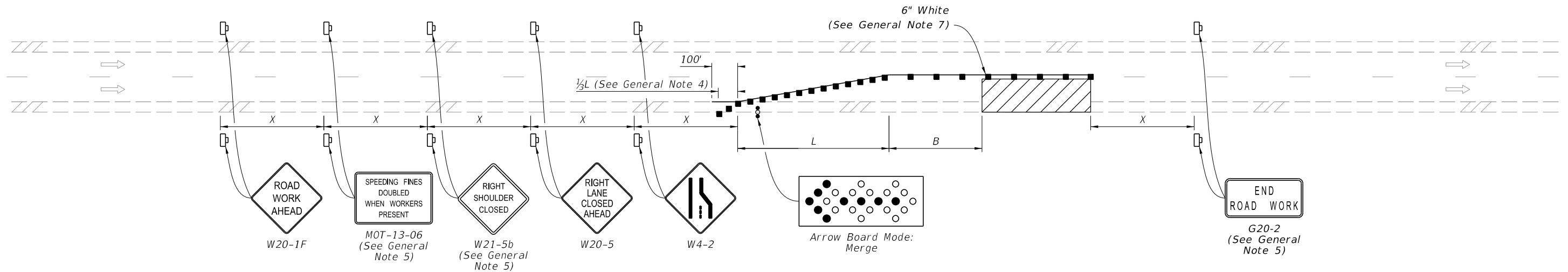


REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			INTERCONNECT PLAN (58)	SHEET NO. 17-151
DATE	DESCRIPTION	DATE	DESCRIPTION					
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				VARIES	LEE	412636-2-52-01		

FALLER, DAVIS & ASSOCIATES, INC.
258 SOUTHWALL LANE - SUITE 210
MAITLAND, FL 32751
CERTIFICATE OF AUTHORIZATION NO.: 5864
KEVIN R. CAREY, P.E. NO.: 61635






Approved
2022-H-100-00135
Barris Giddens
6/22/2022

10/12/2020 6:19:37 AM



SINGLE LANE CLOSURE

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic
-  Arrow Board

GENERAL NOTES:

- L = Taper Length
 B = Buffer Length
 X = Work Zone Sign Distance
See Index 102-600 for " L ", " B ", " X ", and channelizing device spacing values.
- On undivided highways the median signs as shown are to be omitted.
- On limited access facilities, omit "Shoulder Closed Ahead" signs (W21-5b) and associated work zone sign spacing distances.
- If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
- The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2) and "Shoulder Closed Ahead" (W21-5b), along with associated work zone sign distances, may be omitted when the work zone will be in place for 24 hours or less. For Single Lane Closures, arrow boards and buffer (B) may also be omitted when the work zone will be in place for 60 minutes or less and the speed limit is 45 mph or less.
- Use inverted plan of the illustrations for work on left side of roadways.
- Temporary pavement markings may be omitted when the work zone is in place for 3 days or less.
- If the work encroaches on a marked bicycle lane or rideable shoulder, close the lane or shoulder in accordance with the Plans.



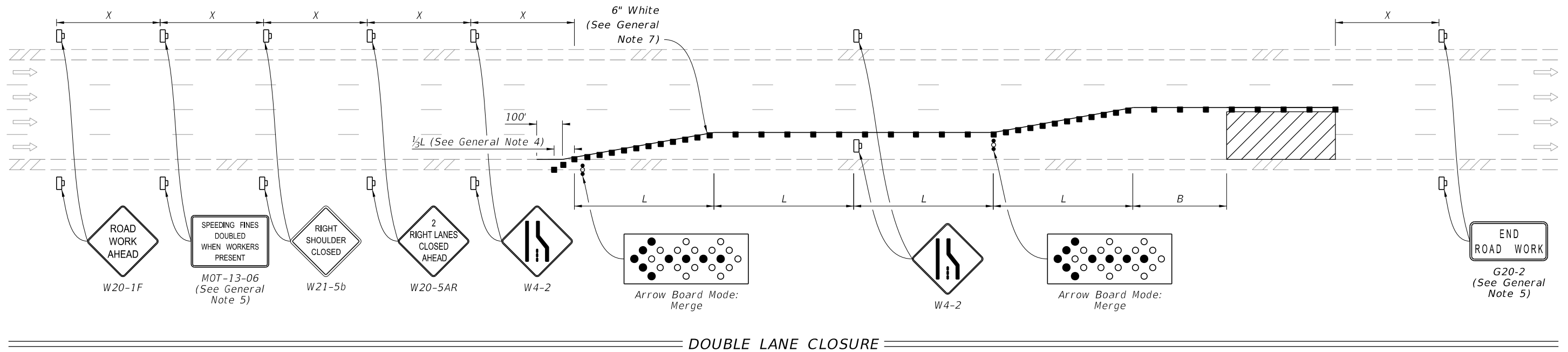
FY 2021-22
STANDARD PLANS

MULTILANE ROADWAY, LANE CLOSURES






Approved
2022-H-192-00135
Harris Giddens
6/22/2022
INDEX SHEET
102-613 1 of 5

LAST REVISION	DESCRIPTION:
11/01/20	

10/12/2020 6:19:42 AM

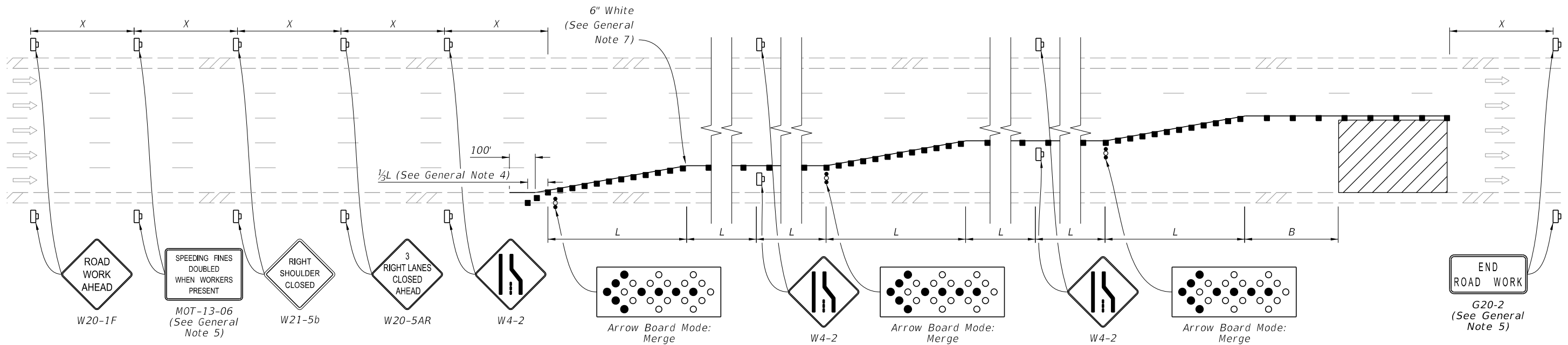


SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic
-  Arrow Board

LAST REVISION 11/01/20	REVISION DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 2 of 5
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Approved
2022-H-192-00135
Harris Giddens
6/22/2022



SYMBOLS:

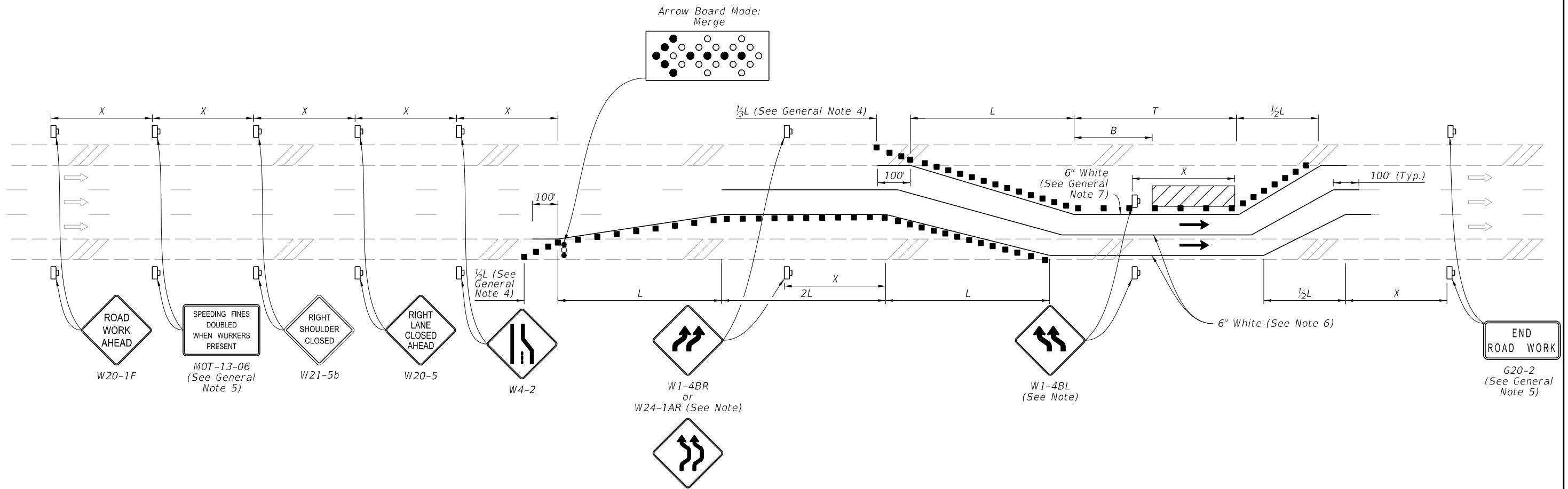
- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Arrow Board

10/12/2020 6:19:47 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 3 of 5
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Approved
2022-H-192-00135
Harris Giddens
6/22/2022

10/12/2020 6:19:52 AM



LANE CLOSURE WITH LANE SHIFT

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Arrow Board

NOTE:

If the tangent distance "T" is less than 600', then use "Double Reverse Curve" signs (W24-1A) instead of the first pair of "Reverse Curve" signs (W1-4B) and omit the second pair of "Reverse Curve" signs.



FY 2021-22
STANDARD PLANS

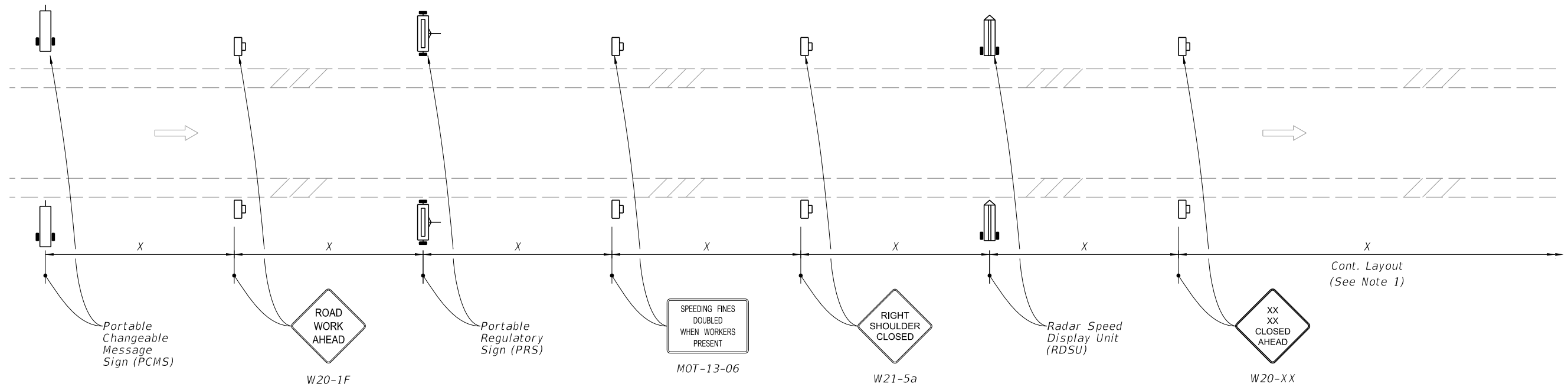
MULTILANE ROADWAY, LANE CLOSURES

Approved
2022-H-192-00135
Harris Giddens
INDEX SHEET
102-613 4 of 5

LAST
REVISION
11/01/20






DESCRIPTION:

2/24/2021 7:04:03 AM



MOTORIST AWARENESS SYSTEM

SYMBOLS:

-  Work Zone Sign
-  (1) PCMS= Portable Changeable (Variable) Message Sign
-  (2) PRS= Portable Regulatory Sign-Speed Limit When Flashing
-  (2) RDSU= Radar Speed Display Unit
-  Lane Identification and Direction of Traffic

NOTES:

- When called for in the Plans, use the Motorist Awareness System (MAS) in accordance with the Plans and this Index. When using this detail, locate the MAS devices (i.e., PCMS, PRS, and RDSU) within the advance warning signs as shown. Continue with the remainder of the work zone signs and devices in accordance with the Plans or Standard Plans after the appropriate "Lane Closed Ahead" (W20-XX) sign.
- For a posted speed of 65 mph or greater, display speed with a ten mph reduction. For a posted speed of 60 mph, display a reduced speed of 55 mph. For areas outside of the lane closure, use the posted speed as the work zone speed.
- Omit the PCMS in the median for roadways with three lanes or less in the same direction of traffic.

TYPICAL PCMS DISPLAY:

With speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: SPEED REDUCED NEXT XXMI

Without speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: NEXT XX MILES



FY 2021-22
STANDARD PLANS

MULTILANE ROADWAY, LANE CLOSURES

INDEX
102-613

SHEET
5 of 5

Approved
2022-H-192-00135
Harris Giddens
6/22/2022

LAST
REVISION
11/01/20

REVISION

DESCRIPTION:

FLORIDA DEPARTMENT OF TRANSPORTATION STORMWATER POLLUTION PREVENTION



The Law

The Federal Clean Water Act was established in 1972 to protect our waterways. As a result, the National Pollutant Discharge Elimination System (NPDES) program was developed. The NPDES permit program addresses water pollution by regulating point sources that discharge pollutants to surface waters. The Florida Department of Environmental Protection (FDEP) administers the NPDES program for Municipal Separate Storm Sewer Systems (MS4) and Construction activities.

CONSTRUCTION ACTIVITIES

➤ Is your construction site regulated?

Yes, if your construction activity will ultimately disturb one acre or more and has the potential to discharge stormwater to surface waters or into a MS4. Disturbance includes clearing, grading, excavation, and demolition.

➤ What are you required to do?

- ✓ Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP)
- ✓ Submit a Notice of Intent (NOI or application) and the appropriate fee to FDEP
- ✓ Submit a Notice of Termination (NOT) to FDEP and to the local MS4 once the site meets the eligibility requirements for termination

For more information on NPDES Stormwater Construction Activities, contact FDEP for more information at (866) 336-6312 or visit <http://www.dep.state.fl.us/water/stormwater/index.htm>.

HOW CAN YOU HELP STOP STORMWATER POLLUTION?

- ✓ Do not pour oil or any chemicals down any storm drain or in the street
- ✓ Use fertilizers and herbicides carefully and only use the recommended amount*
- ✓ Report illicit discharges**
- ✓ Recycle used oil and dispose of chemicals properly. For more information on the proper disposal of wastes contact FDEP at (850) 245-8707 or visit: <http://www.dep.state.fl.us/waste/categories/hwRegulation/>
- ✓ Maintain proper sediment and erosion controls on your construction site



*Contact your County Agricultural Extension Office for answers to your pest and weed problems.

****Illicit Discharges:** Report any material other than stormwater being discharged into a storm drain or into the street.

a storm drain or into the street.

County Agricultural Extension Office				County / FDOT Environmental Contacts	
Charlotte Co.	(941) 764-4340	Highlands Co.	(863) 402-6540	Charlotte Co.	(941) 575-3632
Collier Co.	(239) 252-4800	Lee Co.	(239) 533-7505	Highlands Co.	(863) 402-6500
DeSoto Co.	(863) 993-4846	Manatee Co.	(941) 722-4524	Lee County	(239) 533-9400
Glades Co.	(863) 946-0244	Okeechobee Co.	(863) 763-6469	Manatee County	(941) 748-4501
Hardee Co.	(863) 773-2164	Polk Co.	(863) 519-8677	Polk County	(863) 534-7377
Hendry Co.	(863) 674-4092	Sarasota Co.	(941) 861-9900	Sarasota County	(941) 861-5000
				FDOT Right of Way	(863) 519-2762
FDOT MAINTENANCE YARDS			SPILL REPORTING	State Watch Office (Spill Report Hotline typically 25 gallons or more)	(800) 320-0519
Arcadia Operations	(863) 993-4634				
Bartow Operations	(863) 519-4100		For more information on NPDES stormwater regulations, please contact, FDOT District Maintenance, at (863) 519-2762		
Fort Myers Operations	(239) 985-7800				
Labelle Operations	(863) 674-4027				
Manatee Operations	(941) 708-4400				
Sebring Operations	(863) 386-6104				

Approved