



RSW TRANSMISSION LINE - BEN HILL/TREELINE

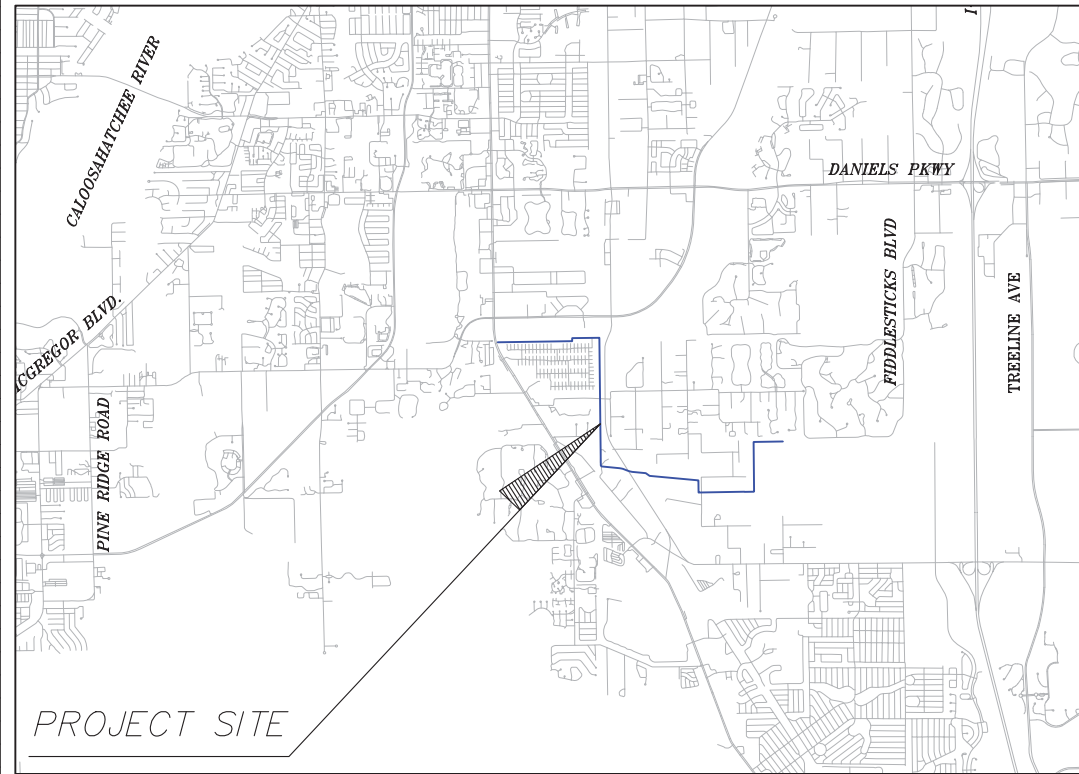
FOR
LEE COUNTY UTILITIES
LOCATED IN
SECTIONS 25 & 35, TOWNSHIP 45 SOUTH, RANGE 24 EAST
LEE COUNTY, FLORIDA
JANUARY 27, 2021



LOCATION OF PROJECT

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LOCATION MAP
N.T.S.

LEE COUNTY BOARD OF COUNTY COMMISSIONERS:
DISTRICT 1: JOHN E. MANNING
DISTRICT 2: CECIL L. PENDERGRASS
DISTRICT 3: RAY SANDELLI
DISTRICT 4: BRIAN HAMMAN
DISTRICT 5: FRANK MANN

For Information Regarding
This Project, Contact:
DAVID BRICE TROUTEAUD, PE



THIS IS TO CERTIFY THAT THESE PLANS AND ASSOCIATED CONSTRUCTION PROJECTS ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE:

DATE: David Brice Trouteaud, P.E. 69783 FL LIC #
DESIGN ENGINEER

DEVELOPMENT ORDER APPROVED:
PUBLIC WORKS ADMINISTRATION

DATE: PAM KEYES, P.E. DIRECTOR OF PUBLIC WORKS



Digitally signed by David Brice Trouteaud, P.E.
69783 STATE OF FLORIDA
Date: 2021.01.28 14:03:53 -05'00'

DAVID BRICE TROUTEAUD, PE
FL License No. 69783

100% Construction Plans

DESIGN CONSULTANT



2122 JOHNSON STREET
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- BEN HILL/TREELINE
Lee County, Florida

NO.	DATE	DESCRIPTION

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Cover

SHEET NUMBER

01

LEE COUNTY UTILITIES STANDARD PLAN NOTES

- 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.LEE.GOV/UTILITIES/DESIGN-MANUAL](https://www.lee.gov/utilities/design-manual)
- ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH AS WELL.
- ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU.
- 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.
- ALL CONSTRUCTION WORK PERFORMED MUST BE DONE BY A CONTRACTOR LICENSED IN THE STATE OF FLORIDA TO DO THE WORK INTENDED
- 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, THE LCU PROJECT MANAGER, AND THE LCU INSPECTOR ASSIGNED TO THE PROJECT. LCU IS TO BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 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.
- ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 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.
- 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.
- 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.
- THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND LCU.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
- 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.
- LCU REQUIRES THERE TO BE A MINIMUM OF TEN (10) FEET HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN POTABLE WATER & SANITARY SEWER MAINS. LCU ALSO REQUIRES MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN OTHER PUBLIC AND/OR PRIVATE UTILITIES, STRUCTURE(S), BUILDING(S), WALL(S), FOUNTAIN(S), FENCE(S) AND LCU INFRASTRUCTURE UNLESS SPECIFICALLY APPROVED BY LCU.
- LCU REQUIRES THERE TO BE A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND DRAINAGE INFRASTRUCTURE, MITERED END SECTIONS, INLETS, ETC. LCU ALSO REQUIRES MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND ALL NEW LIGHT POLE FOUNDATIONS.
- 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.
- 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.

DATUM NOTES:

- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- HORIZONTAL DATA IS BASED ON STATE PLANE COORDINATES FOR THE WEST ZONE OF FLORIDA.

FIELD SURVEY NOTE

- TOPOGRAPHIC FIELD DATA WAS COLLECTED JANUARY 15th TO FEBRUARY 12th, 2020.
- TOPOGRAPHIC FIELD DATA AND S.U.E. DATA WAS COLLECTED OCTOBER 27th, 2008 TO APRIL 13th, 2009.

GEO-TECH NOTE

- SUBSURFACE SOIL EXPLORATION WAS CONDUCTED IN MARCH 2009 AND DECEMBER 2020. SEE SHEETS 60 & 61 FOR REPORT.

NOTICE TO ALL CONTRACTORS

IT'S THE LAW IN FLORIDA
2 BUSINESS DAYS BEFORE YOU DIG
CALL SUNSHINE 1-800-432-4770

STATE, COUNTIES & CITIES ARE "NOT" PART OF THE ONE CALL SYSTEM. THEY MUST BE CALLED INDIVIDUALLY.

STATE OF FLORIDA DOT
ALL INTERSTATE RIGHT-OF-WAY
HIGHMAST LIGHTING
7-DAY NOTICE REQUIRED
239-656-7811
239-656-7742 FAX



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ABBREVIATIONS

- ABD = ABANDONED
- AE = ACCESS EASEMENT
- ALT = ALTERNATE
- ARV = AIR RELEASE VALVE
- ASPH = ASPHALT
- BLDG = BUILDING
- CATV = CABLE TELEVISION
- CB = CATCH BASIN
- CMP = CORRUGATED METAL PIPE
- CO = CLEANOUT
- DE = DRAINAGE EASEMENT
- DIP = DUCTILE IRON PIPE
- EOP = EDGE OF PAVEMENT
- ERCP = ELLIPTICAL REINFORCED CONCRETE PIPE
- EX = EXISTING
- FE = FLARED END SECTION
- FH = FIRE HYDRANT
- FLG = FLANGED
- FM = FORCE MAIN
- FO = FIBER OPTIC
- GV = GATE VALVE
- HDPE = HIGH DENSITY POLY ETHYLENE
- ICV = IRRIGATION CONTROL VALVE
- INV = INVERT
- IRR = IRRIGATION
- MH = MANHOLE
- ME = MITERED END SECTION
- MJ = MECHANICAL JOINT
- NIC = NOT INCLUDED
- OC = ON CENTER
- PAVT = PAVEMENT
- PKWY = PARKWAY
- PS = PUMP STATION
- PV = PLUG VALVE
- PVC = POLYVINYL CHLORIDE
- RCP = REINFORCED CONCRETE PIPE
- RD = ROAD
- REQ = REQUIRED
- R/W = RIGHT-OF-WAY
- RU = REUSE MAIN
- SAN = SANITARY
- SD = STORM DRAIN
- SPEC = SPECIFICATION
- SS = SANITARY SEWER
- ST = STREET
- STA = STATION
- STD = STANDARD
- STM = STORM SEWER
- TEL = TELEPHONE
- TYP = TYPICAL
- UE = UTILITY EASEMENT
- WM = WATER MAIN
- VLV = CONC. VALVE VAULT

LEGEND

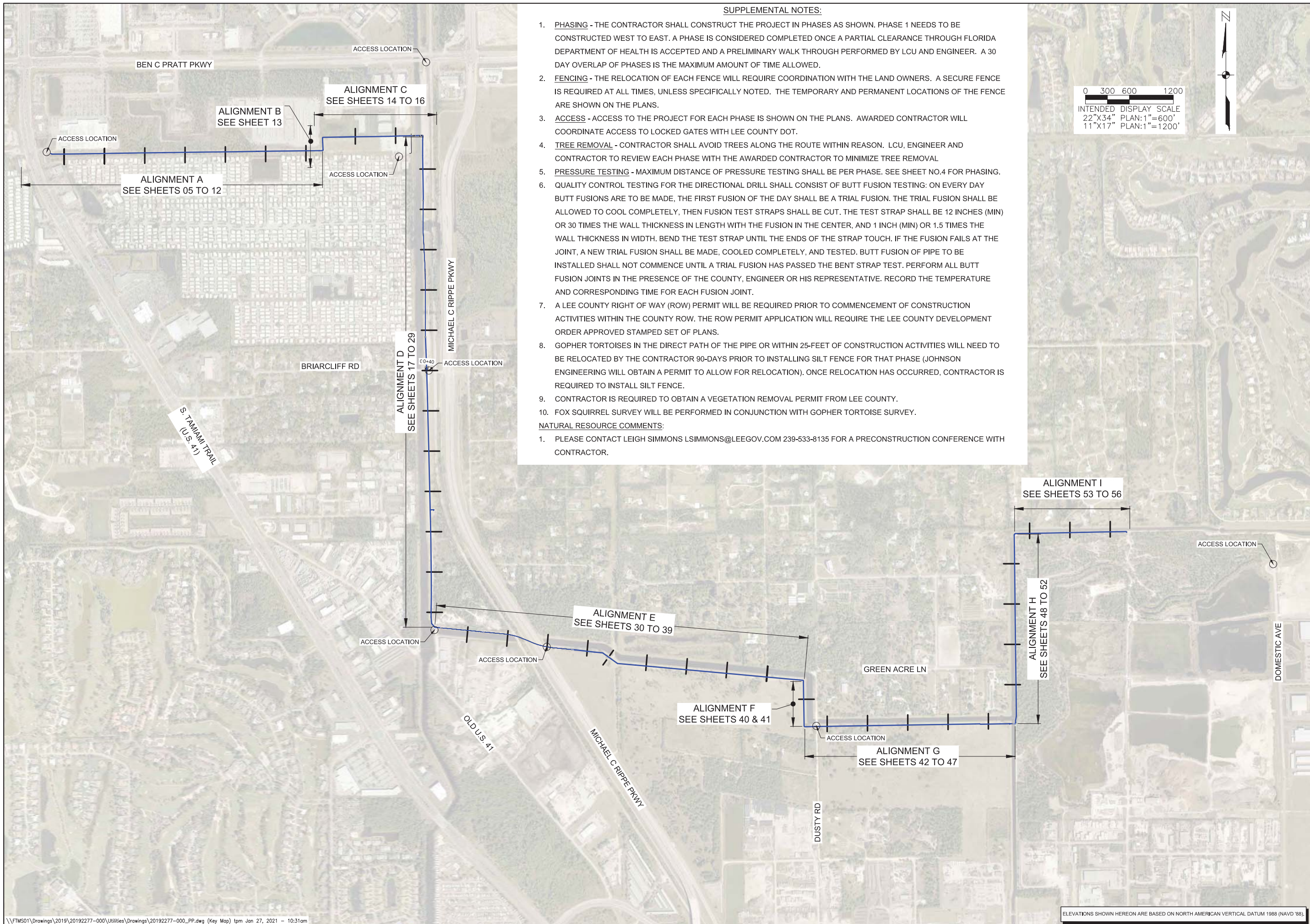
- EX XX" FM = EXISTING FORCE MAIN & PIPE SIZE
- XX" FM = PROPOSED FORCE MAIN & PIPE SIZE
- EX XX" WM = EXISTING POTABLE WATER MAIN & SIZE
- XX" WM = PROPOSED WATER MAIN & PIPE SIZE
- XX" SS = PROPOSED SANITARY SEWER MAIN & SIZE
- EX XX" SS = EXISTING SANITARY SEWER MAIN & SIZE
- XX" RCWM = PROPOSED RECLAIMED WATER MAIN & SIZE
- EX XX" RCWM = EXISTING RECLAIMED WATER MAIN & SIZE
- [Symbol] = PROPOSED PLUG VALVE
- [Symbol] = EX PLUG VALVE
- [Symbol] = EXISTING FIRE HYDRANT
- [Symbol] = PROPOSED AUTOMATIC AIR RELEASE VALVE
- [Symbol] = PROPOSED REDUCER
- [Symbol] = EXISTING SANITARY MANHOLE
- [Symbol] = EXISTING PUMP STATION
- [Symbol] = PROPOSED PLUG
- [Symbol] = SOIL BORING
- [Symbol] = CATCH BASIN
- [Symbol] = WOOD POWER POLE
- [Symbol] = CONCRETE POWER POLE
- [Symbol] = EXISTING WATER METER
- [Symbol] = EXISTING CLEANOUT
- [Symbol] = UNDERGROUND ELECTRIC
- [Symbol] = UNDERGROUND GAS MAIN
- [Symbol] = OVERHEAD POWER LINES
- [Symbol] = STREET SIGN
- [Symbol] = ELECTRIC SERVICE BOX
- [Symbol] = GUY ANCHOR
- [Symbol] = SEWER VALVE
- [Symbol] = WOOD POWER POLE
- [Symbol] = PROPOSED CONSTRUCTION SIGN
- [Symbol] = PROPOSED SIDEWALK
- [Symbol] = EXISTING SAN. SEWER AND WATER MAIN OUTSIDE OF PAVEMENT TO BE GROUDED AND ABANDONED
- [Symbol] = EXISTING SAN. SEWER AND WATER MAIN UNDER PAVEMENT TO BE REMOVED
- [Symbol] = PROPOSED JACK AND BORE
- [Symbol] = TEMPORARY BLOW-OFF
- [Symbol] = FLOW ARROW
- [Symbol] = PROPOSED UTILITY ROLLDOWN
- [Symbol] = EXISTING MH TO BE REHABBED

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Notes & Legends

SHEET NUMBER



SUPPLEMENTAL NOTES:

- PHASING** - THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN PHASES AS SHOWN. PHASE 1 NEEDS TO BE CONSTRUCTED WEST TO EAST. A PHASE IS CONSIDERED COMPLETED ONCE A PARTIAL CLEARANCE THROUGH FLORIDA DEPARTMENT OF HEALTH IS ACCEPTED AND A PRELIMINARY WALK THROUGH PERFORMED BY LCU AND ENGINEER. A 30 DAY OVERLAP OF PHASES IS THE MAXIMUM AMOUNT OF TIME ALLOWED.
 - FENCING** - THE RELOCATION OF EACH FENCE WILL REQUIRE COORDINATION WITH THE LAND OWNERS. A SECURE FENCE IS REQUIRED AT ALL TIMES, UNLESS SPECIFICALLY NOTED. THE TEMPORARY AND PERMANENT LOCATIONS OF THE FENCE ARE SHOWN ON THE PLANS.
 - ACCESS** - ACCESS TO THE PROJECT FOR EACH PHASE IS SHOWN ON THE PLANS. AWARDED CONTRACTOR WILL COORDINATE ACCESS TO LOCKED GATES WITH LEE COUNTY DOT.
 - TREE REMOVAL** - CONTRACTOR SHALL AVOID TREES ALONG THE ROUTE WITHIN REASON. LCU, ENGINEER AND CONTRACTOR TO REVIEW EACH PHASE WITH THE AWARDED CONTRACTOR TO MINIMIZE TREE REMOVAL
 - PRESSURE TESTING** - MAXIMUM DISTANCE OF PRESSURE TESTING SHALL BE PER PHASE. SEE SHEET NO.4 FOR PHASING.
 - QUALITY CONTROL TESTING FOR THE DIRECTIONAL DRILL SHALL CONSIST OF BUTT FUSION TESTING: ON EVERY DAY BUTT FUSIONS ARE TO BE MADE, THE FIRST FUSION OF THE DAY SHALL BE A TRIAL FUSION. THE TRIAL FUSION SHALL BE ALLOWED TO COOL COMPLETELY, THEN FUSION TEST STRAPS SHALL BE CUT. THE TEST STRAP SHALL BE 12 INCHES (MIN) OR 30 TIMES THE WALL THICKNESS IN LENGTH WITH THE FUSION IN THE CENTER, AND 1 INCH (MIN) OR 1.5 TIMES THE WALL THICKNESS IN WIDTH. BEND THE TEST STRAP UNTIL THE ENDS OF THE STRAP TOUCH. IF THE FUSION FAILS AT THE JOINT, A NEW TRIAL FUSION SHALL BE MADE, COOLED COMPLETELY, AND TESTED. BUTT FUSION OF PIPE TO BE INSTALLED SHALL NOT COMMENCE UNTIL A TRIAL FUSION HAS PASSED THE BENT STRAP TEST. PERFORM ALL BUTT FUSION JOINTS IN THE PRESENCE OF THE COUNTY, ENGINEER OR HIS REPRESENTATIVE. RECORD THE TEMPERATURE AND CORRESPONDING TIME FOR EACH FUSION JOINT.**
 - A LEE COUNTY RIGHT OF WAY (ROW) PERMIT WILL BE REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES WITHIN THE COUNTY ROW. THE ROW PERMIT APPLICATION WILL REQUIRE THE LEE COUNTY DEVELOPMENT ORDER APPROVED STAMPED SET OF PLANS.
 - GOPHER TORTOISES IN THE DIRECT PATH OF THE PIPE OR WITHIN 25-FEET OF CONSTRUCTION ACTIVITIES WILL NEED TO BE RELOCATED BY THE CONTRACTOR 90-DAYS PRIOR TO INSTALLING SILT FENCE FOR THAT PHASE (JOHNSON ENGINEERING WILL OBTAIN A PERMIT TO ALLOW FOR RELOCATION). ONCE RELOCATION HAS OCCURRED, CONTRACTOR IS REQUIRED TO INSTALL SILT FENCE.
 - CONTRACTOR IS REQUIRED TO OBTAIN A VEGETATION REMOVAL PERMIT FROM LEE COUNTY.
 - FOX SQUIRREL SURVEY WILL BE PERFORMED IN CONJUNCTION WITH GOPHER TORTOISE SURVEY.
- NATURAL RESOURCE COMMENTS:**
- PLEASE CONTACT LEIGH SIMMONS LSIMMONS@LEEGOV.COM 239-533-8135 FOR A PRECONSTRUCTION CONFERENCE WITH CONTRACTOR.



DAVID BRICE TROUTEAUX, PE
 FL License No. 69783



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100% Construction Plans
 Key Map

SHEET NUMBER

03

ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).



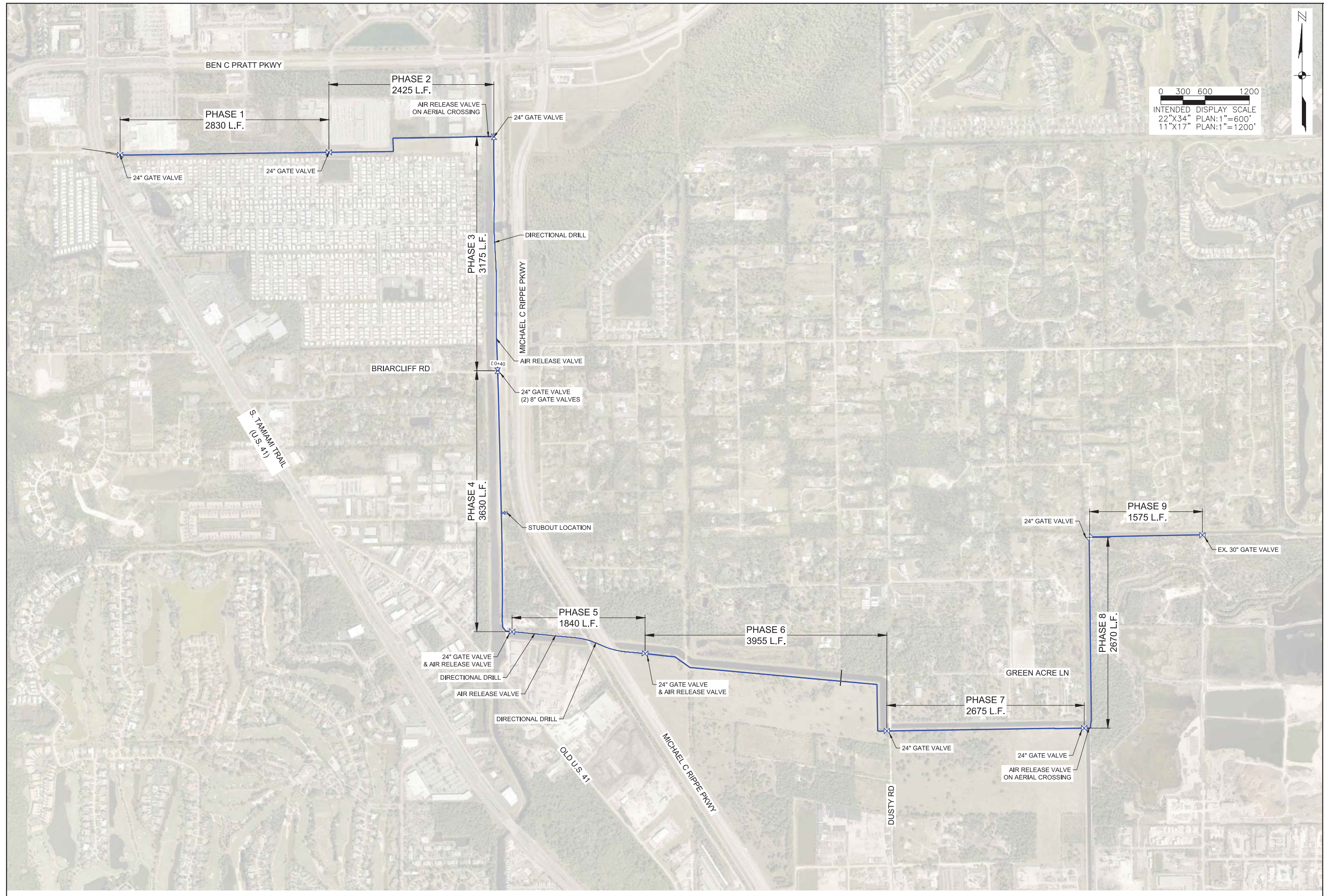
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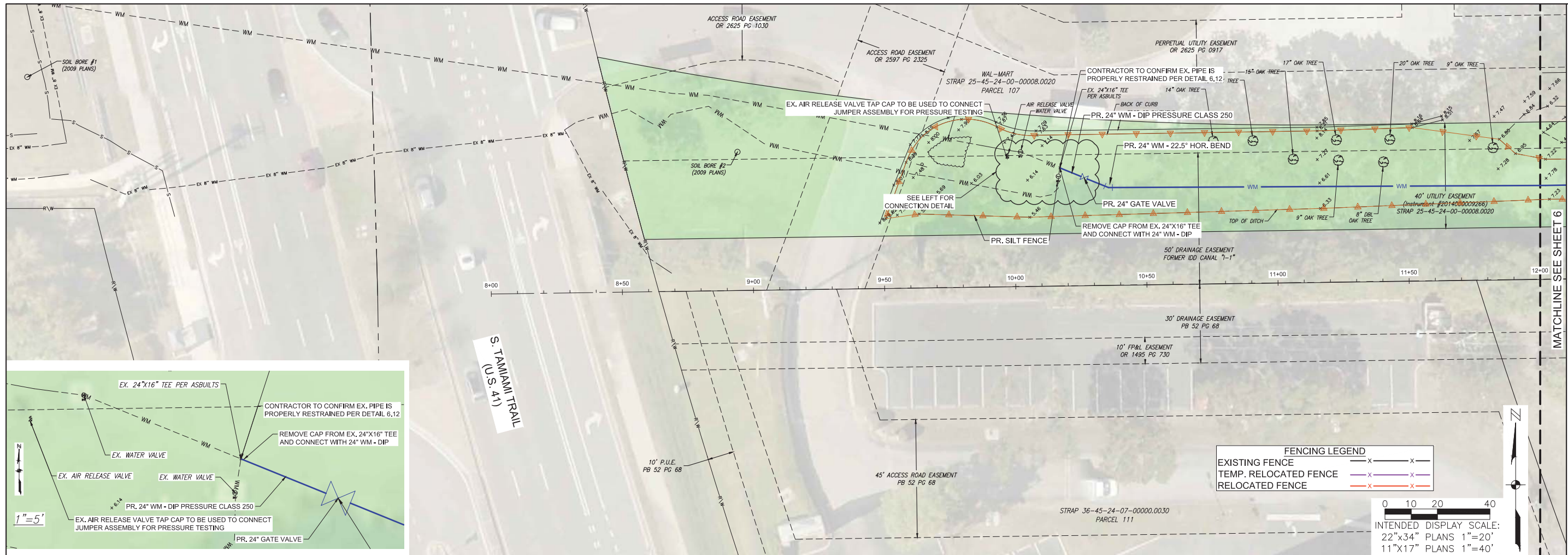
100% Construction Plans
Phases & Valve Locations

SHEET NUMBER



0 300 600 1200
INTENDED DISPLAY SCALE
22"X34" PLAN: 1"=600'
11"X17" PLAN: 1"=1200'





NO.	DATE	DESCRIPTION

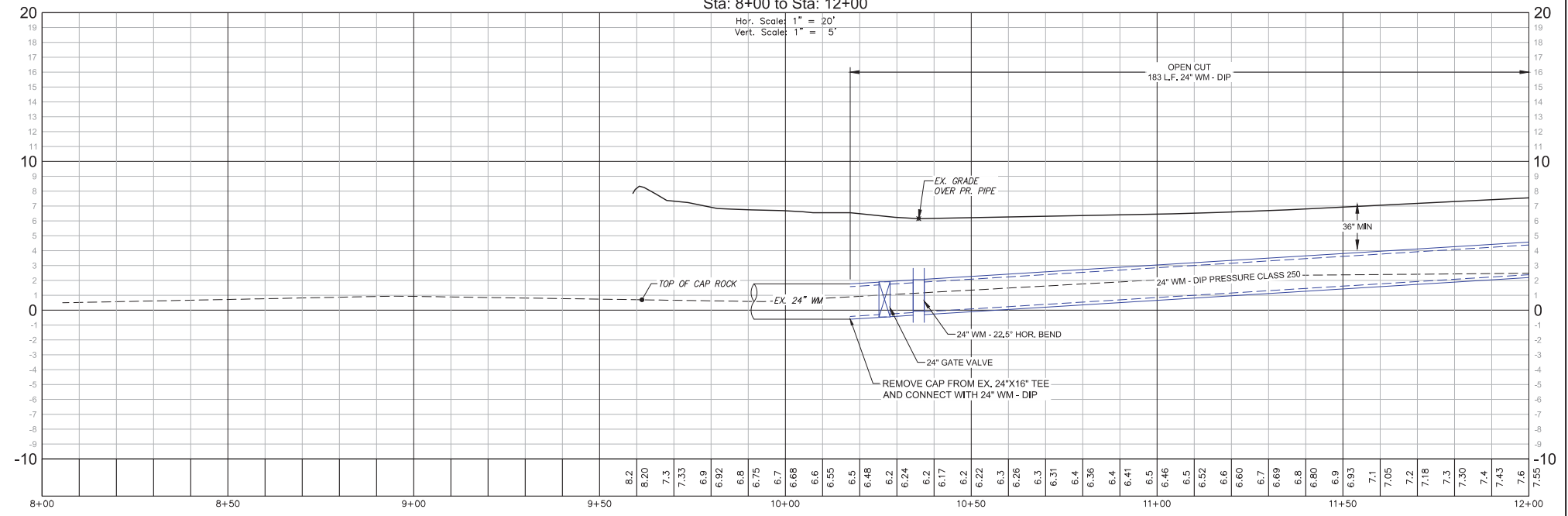
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100% Construction Plans
 Alignment A
 Sta 8+00 to 12+00

SHEET NUMBER

05

Profile View of Alignment A
 Sta: 8+00 to Sta: 12+00



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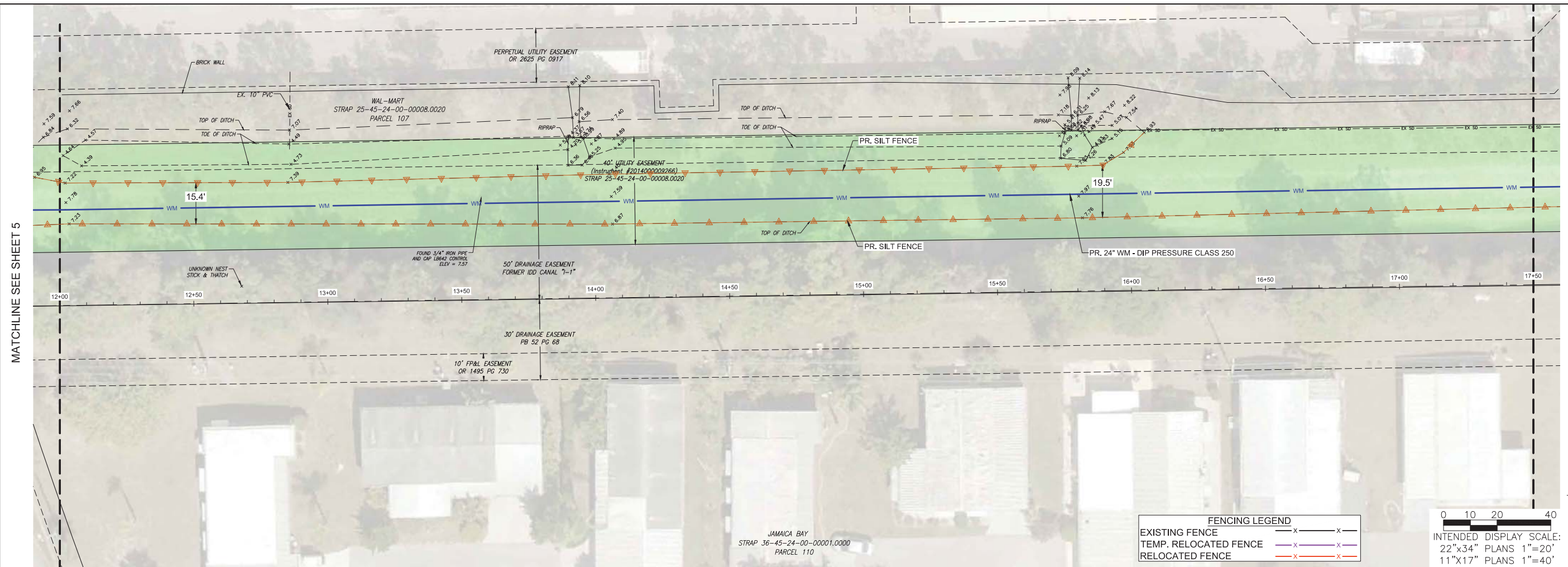
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100% Construction Plans
Alignment A
Sta 12+00 to 17+50

SHEET NUMBER

06



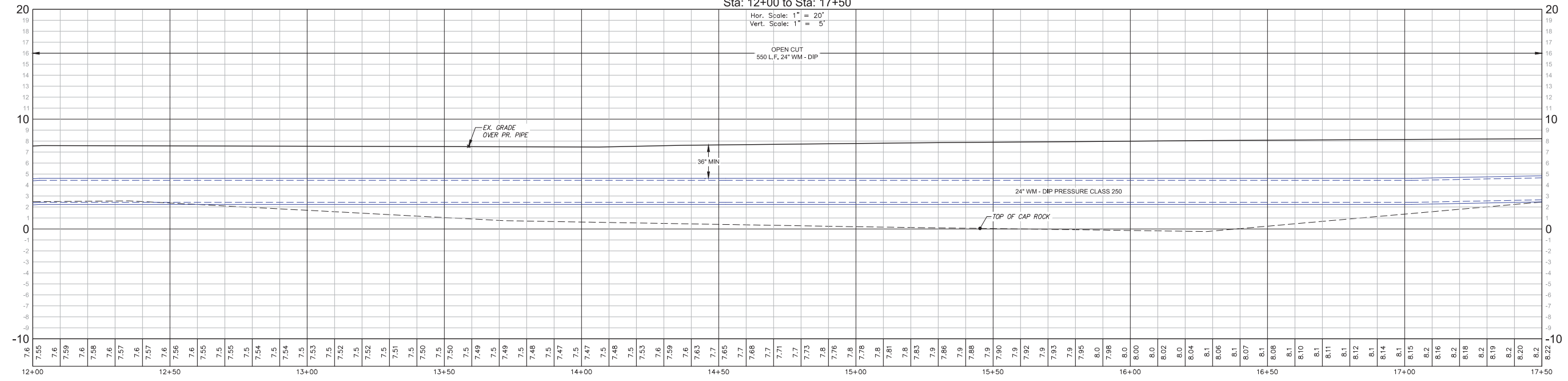
MATCHLINE SEE SHEET 5

MATCHLINE SEE SHEET 7

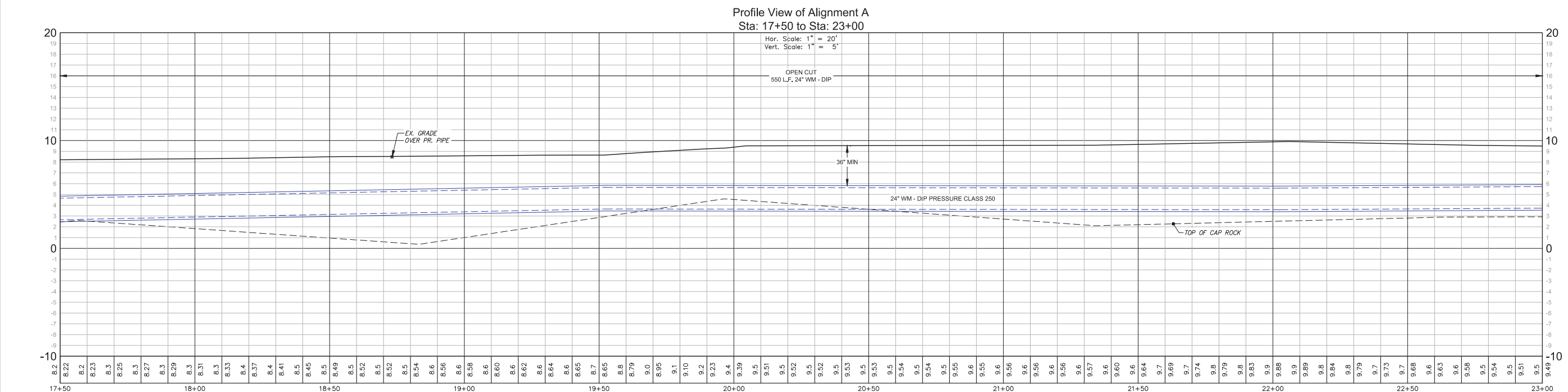
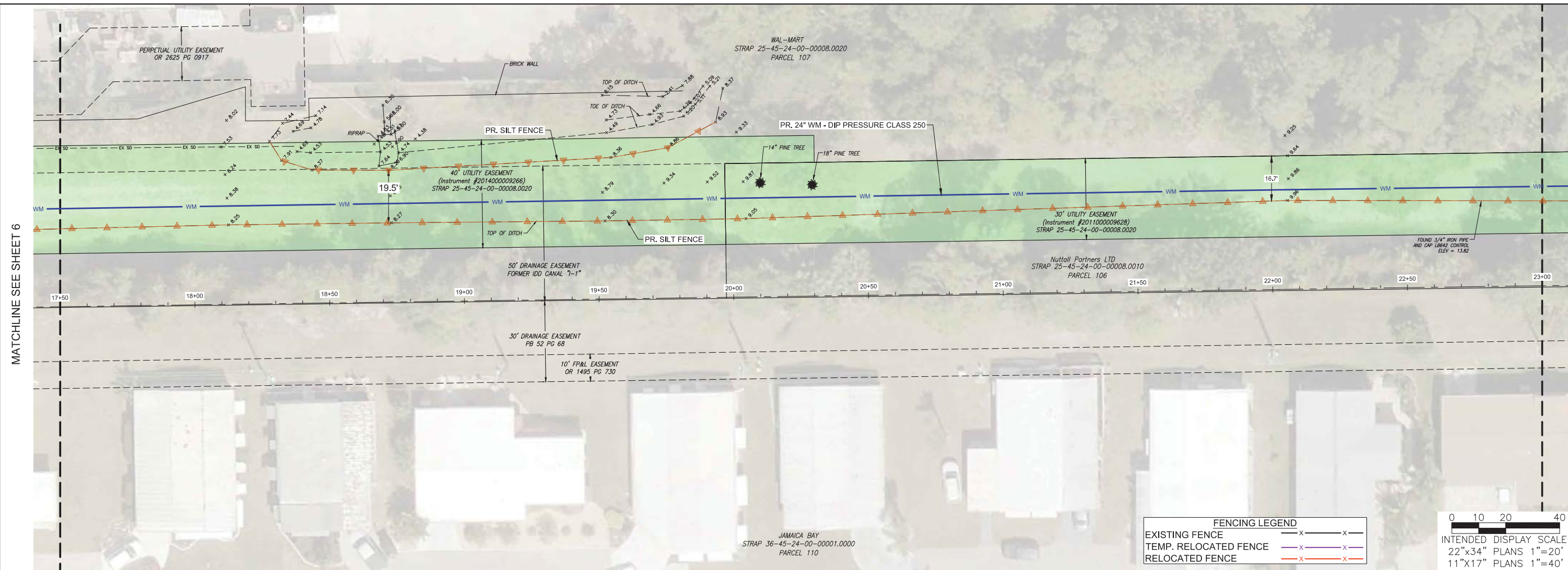
FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

INTENDED DISPLAY SCALE:
22"x34" PLANS 1"=20'
11"x17" PLANS 1"=40'

Profile View of Alignment A
Sta: 12+00 to Sta: 17+50



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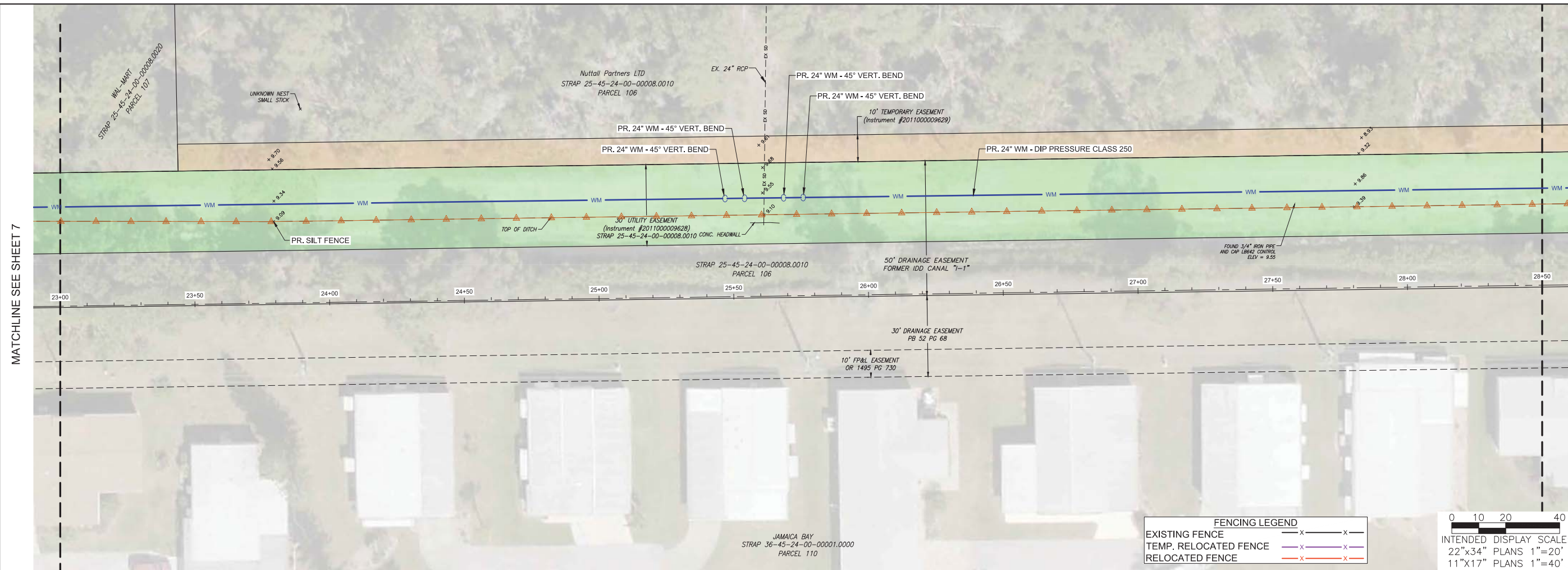
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100% Construction Plans
Alignment A
Sta 23+00 to 28+50

SHEET NUMBER

08



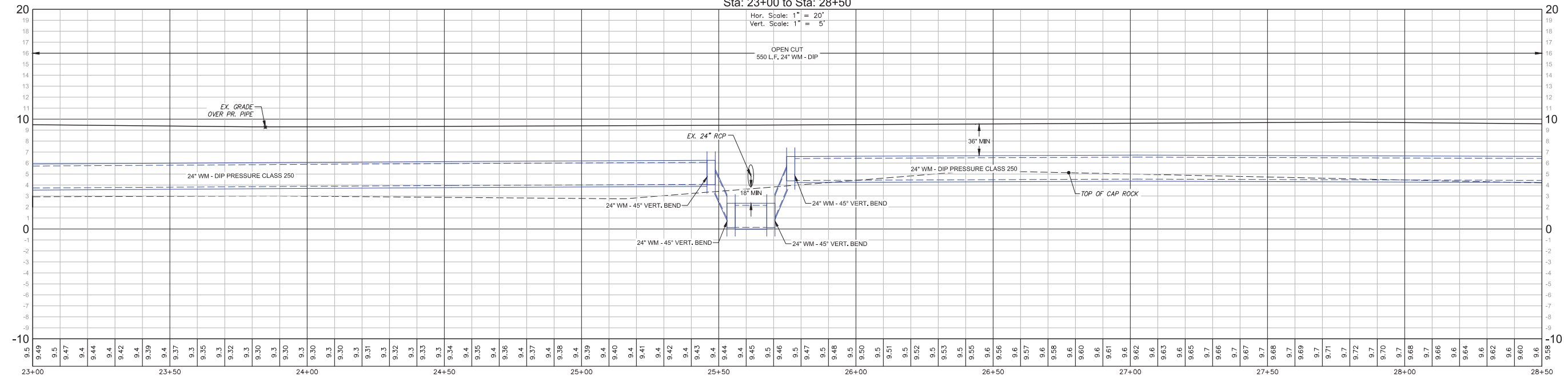
MATCHLINE SEE SHEET 7

MATCHLINE SEE SHEET 9

FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

0 10 20 40
INTENDED DISPLAY SCALE:
22"x34" PLANS 1"=20'
11"x17" PLANS 1"=40'

Profile View of Alignment A
Sta: 23+00 to Sta: 28+50



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

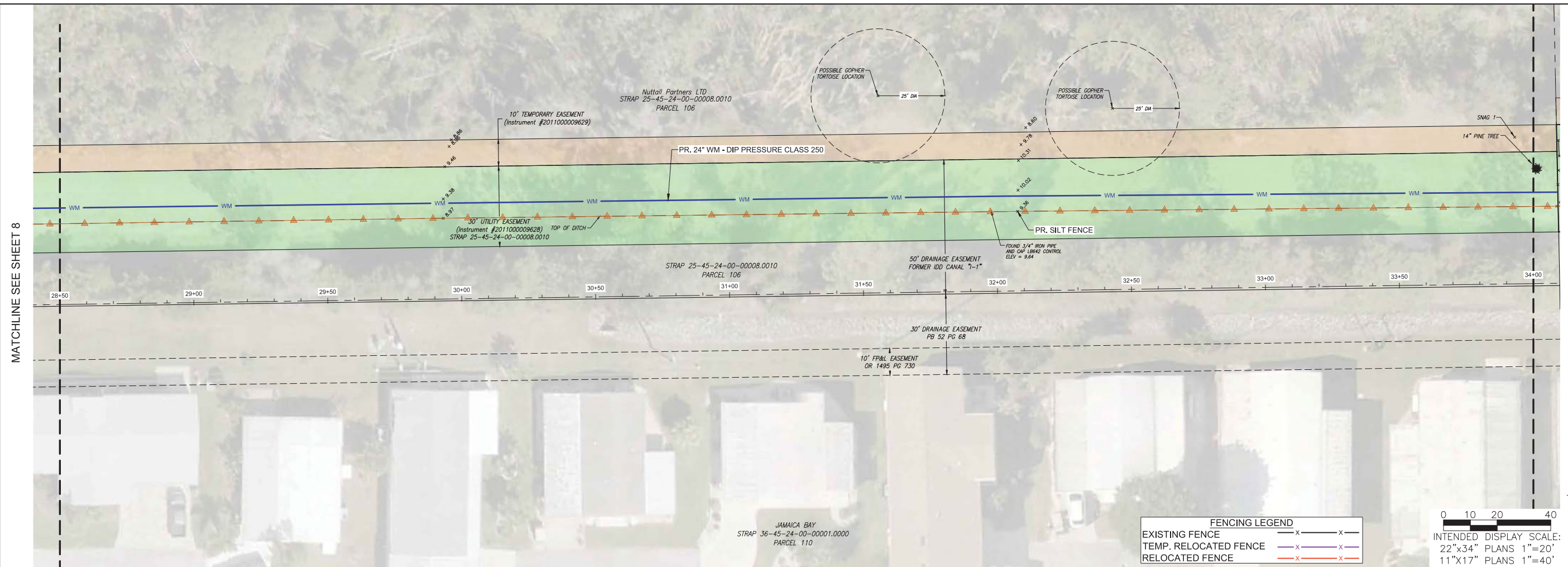
NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment A
Sta 28+50 to 34+00

SHEET NUMBER

09



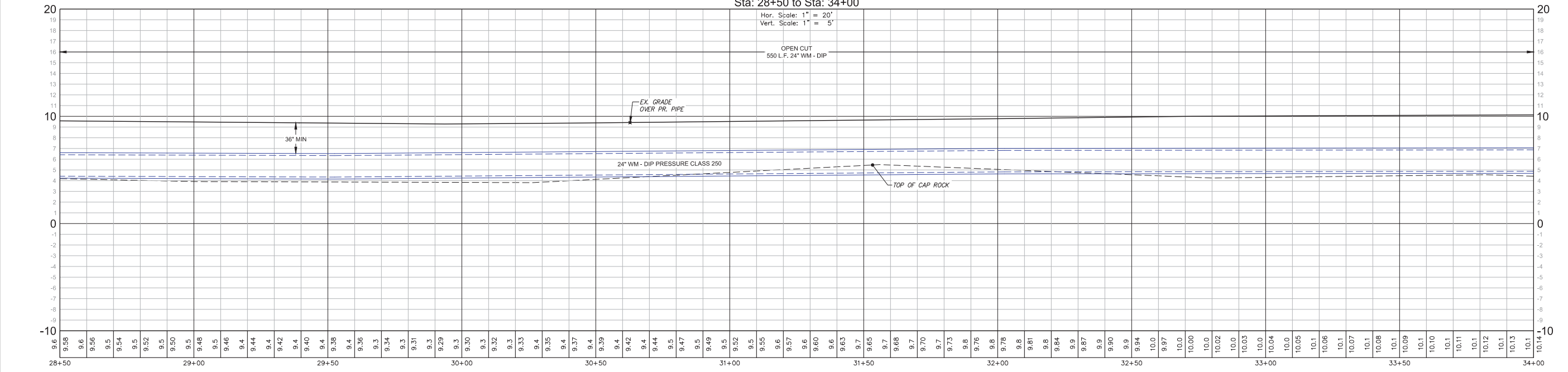
MATCHLINE SEE SHEET 8

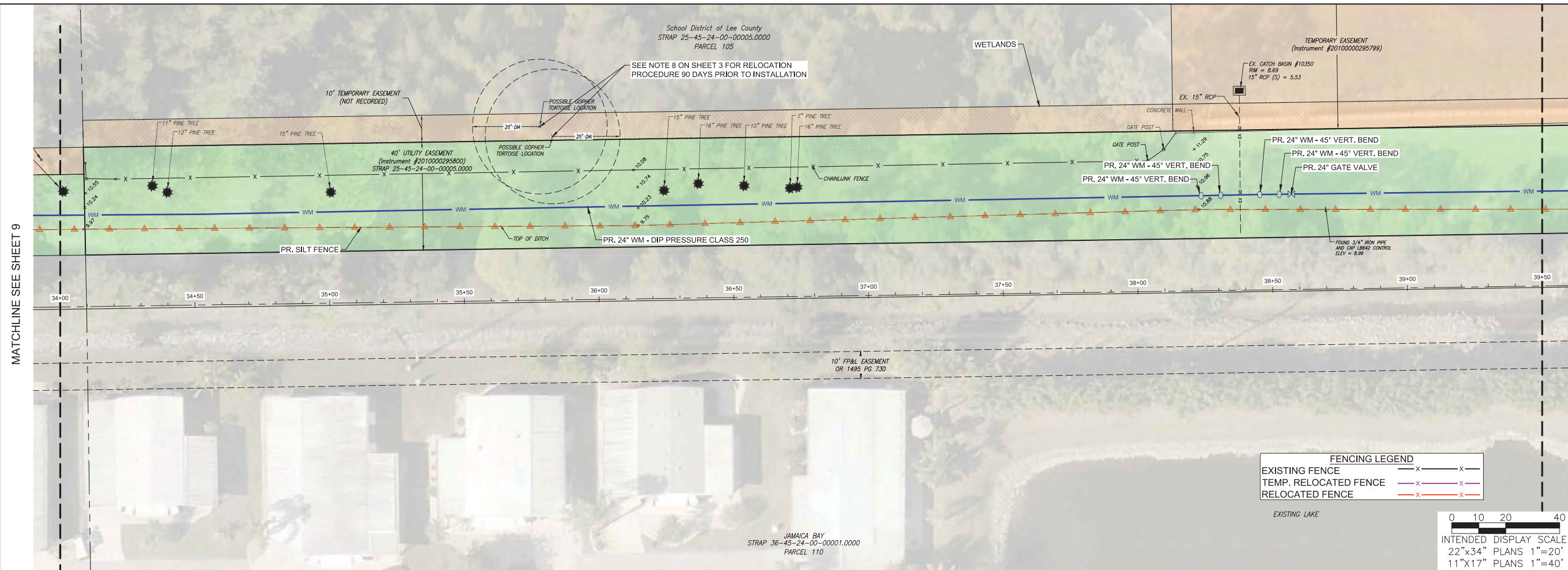
MATCHLINE SEE SHEET 10

FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

0 10 20 40
INTENDED DISPLAY SCALE:
22"x34" PLANS 1"=20'
11"x17" PLANS 1"=40'

Profile View of Alignment A
Sta: 28+50 to Sta: 34+00

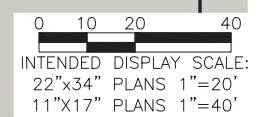




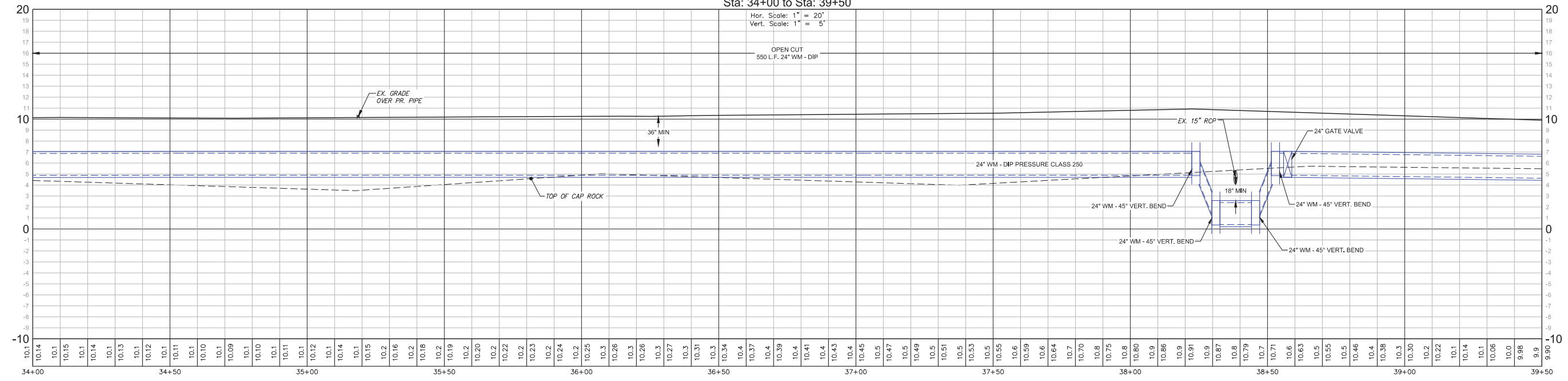
MATCHLINE SEE SHEET 9

MATCHLINE SEE SHEET 11

FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- - - x - - - x - - -
RELOCATED FENCE	— x — x —



Profile View of Alignment A
Sta: 34+00 to Sta: 39+50



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

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 FL License No. 69783



RSW TRANSMISSION LINE
 - BEN HILL/TREELINE
 Lee County, Florida

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Alignment A
 Sta 34+00 to 39+50

SHEET NUMBER

10



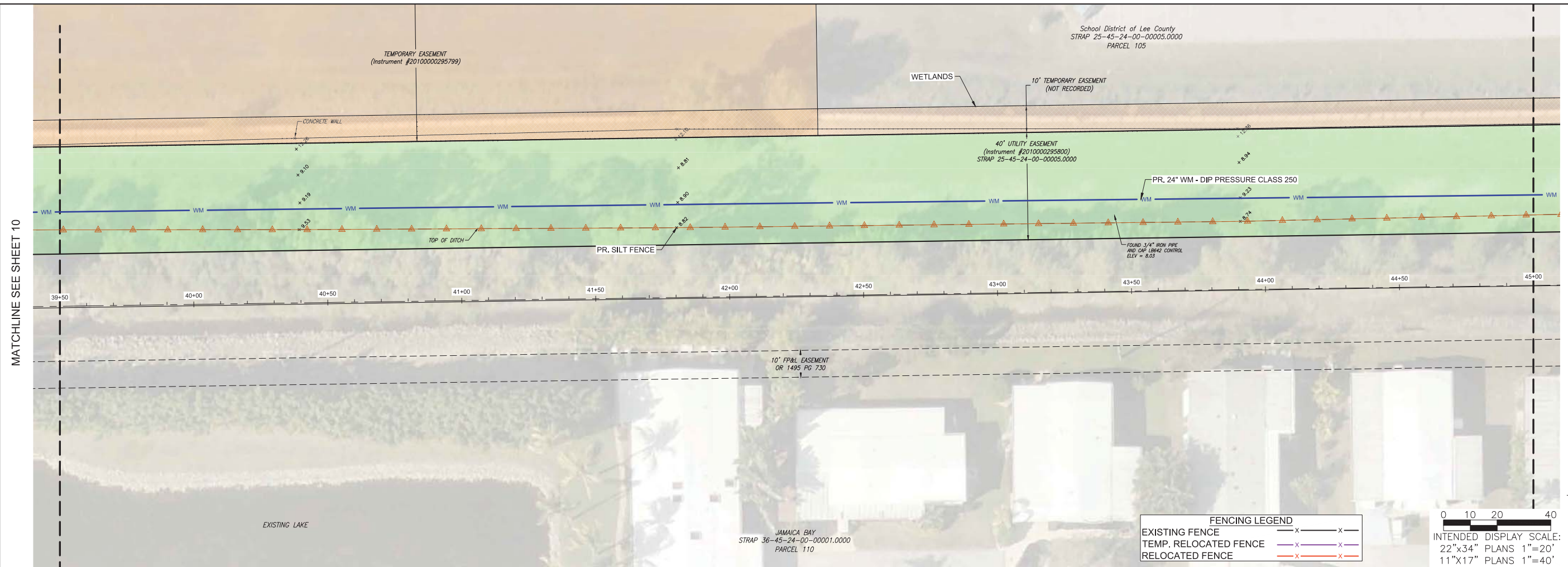
RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment A
Sta 39+50 to 45+00

SHEET NUMBER



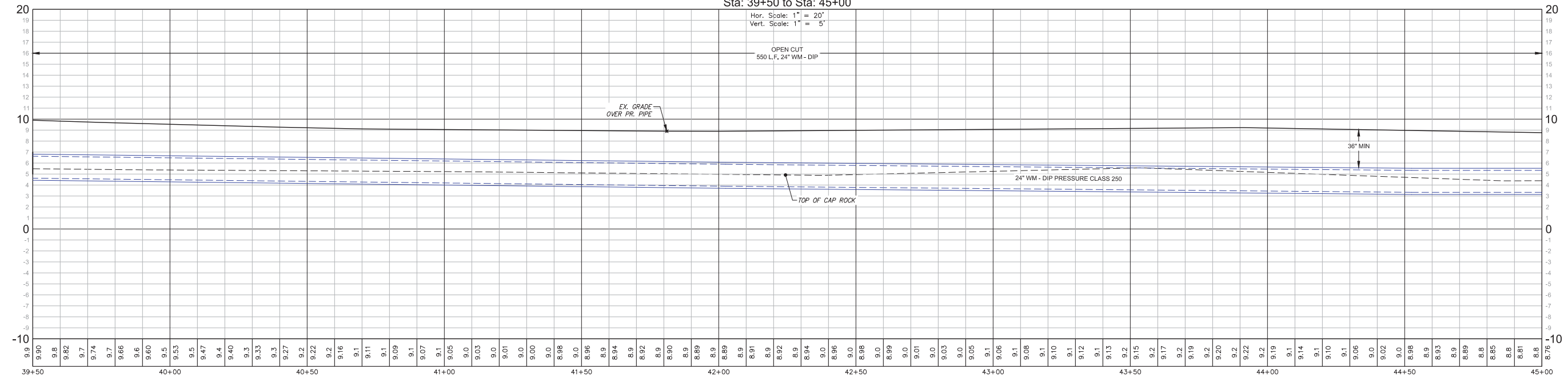
MATCHLINE SEE SHEET 10

MATCHLINE SEE SHEET 12

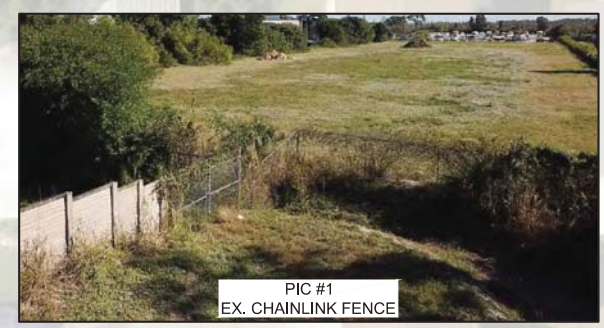
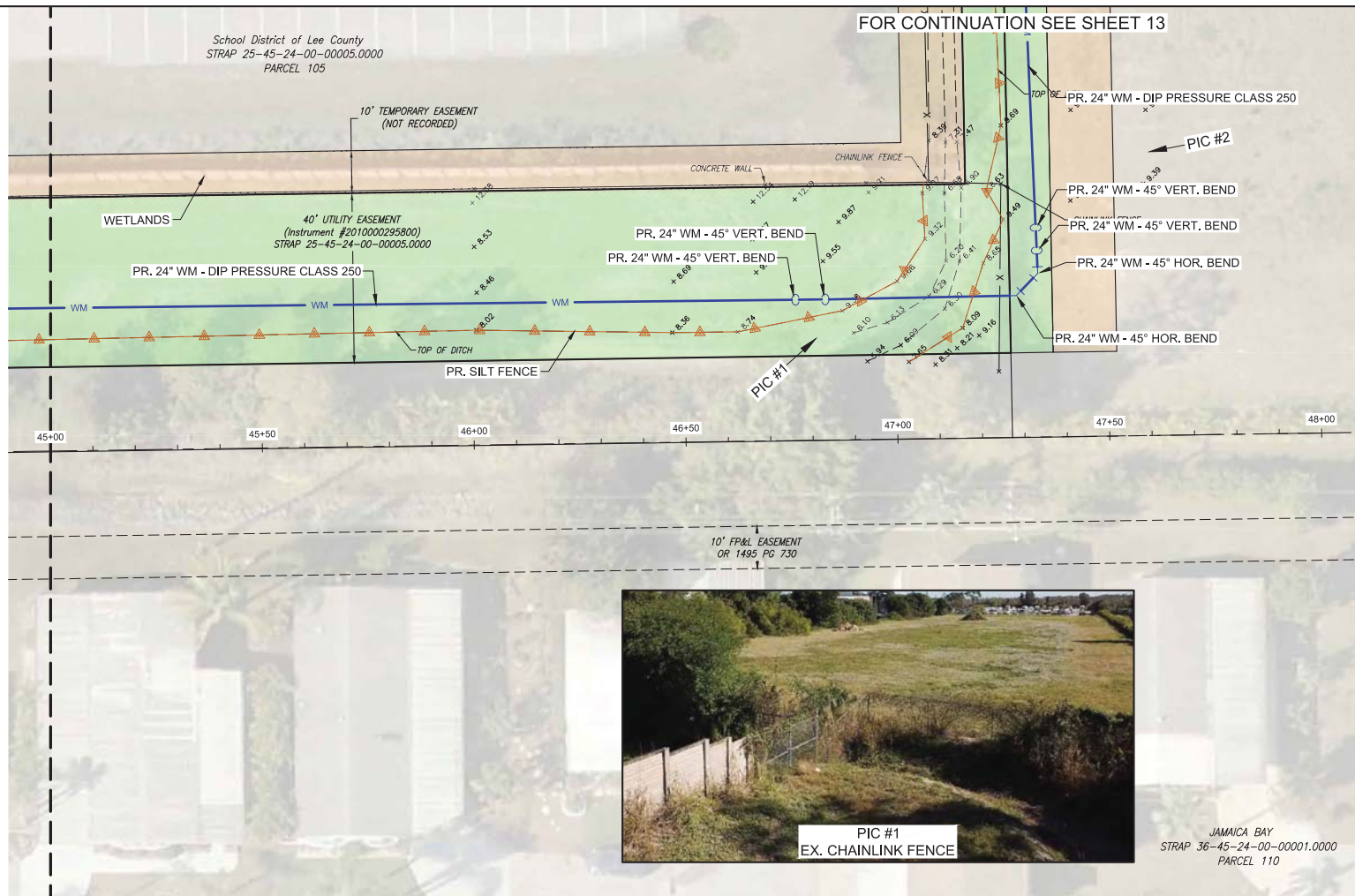
FENCING LEGEND	
EXISTING FENCE	—x—x—
TEMP. RELOCATED FENCE	—x—x—
RELOCATED FENCE	—x—x—

0 10 20 40
INTENDED DISPLAY SCALE:
22"x34" PLANS 1"=20'
11"x17" PLANS 1"=40'

Profile View of Alignment A
Sta: 39+50 to Sta: 45+00

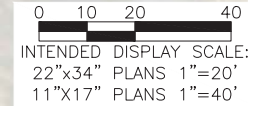


MATCHLINE SEE SHEET 11

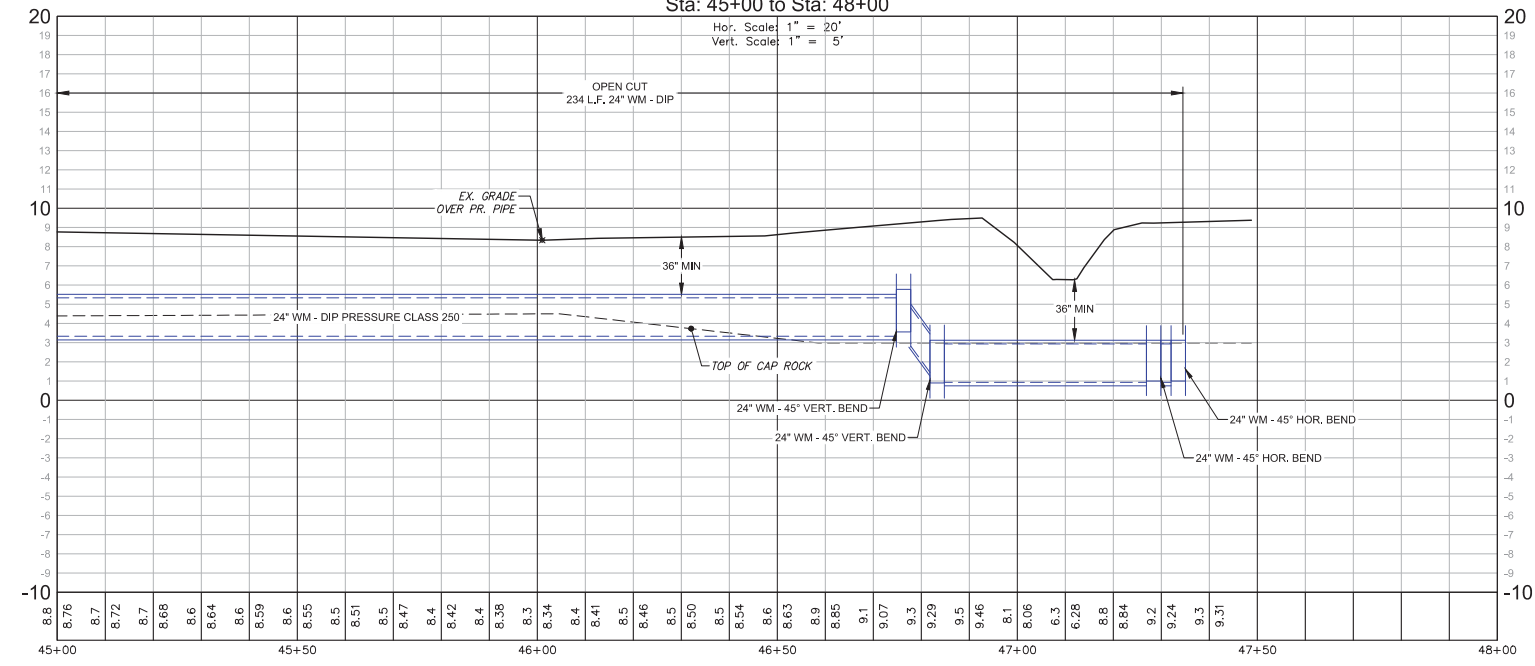


FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —



Profile View of Alignment A
Sta: 45+00 to Sta: 48+00



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FL License No. 69783



RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment A
Sta 45+00 to 48+00

SHEET NUMBER

12

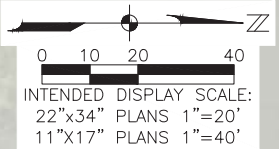
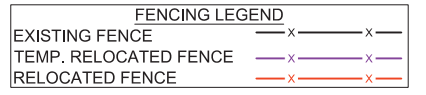
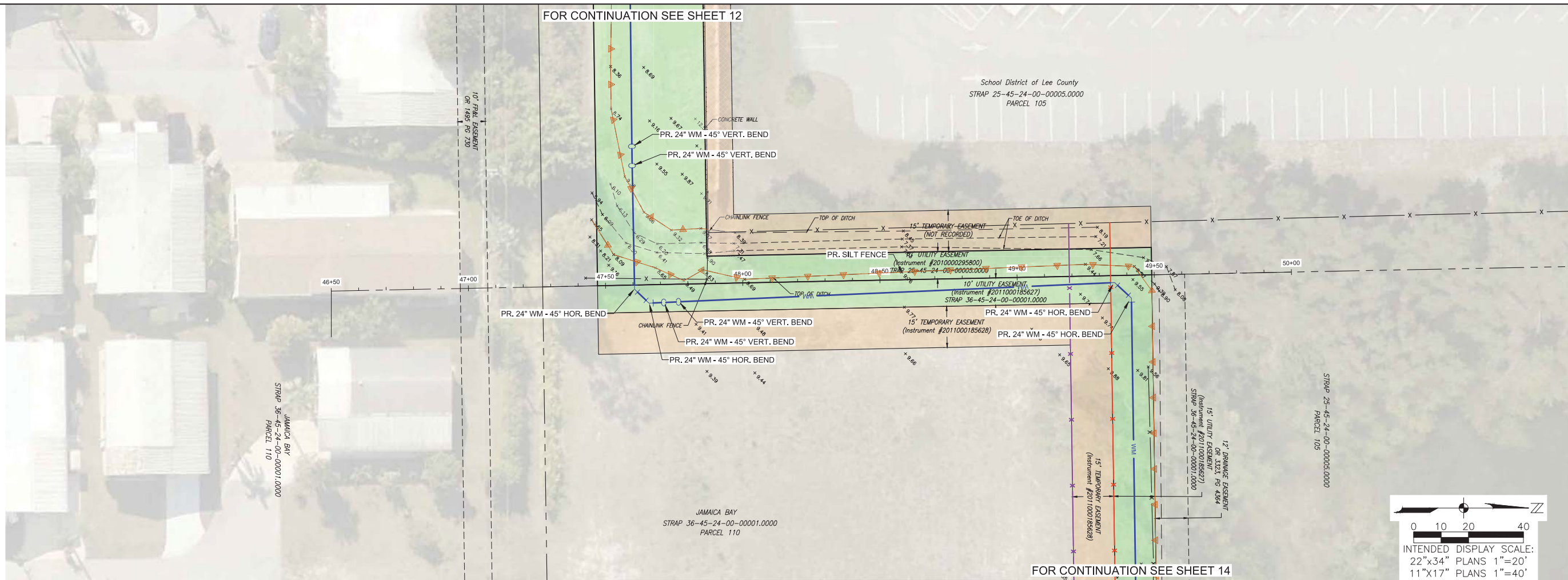
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

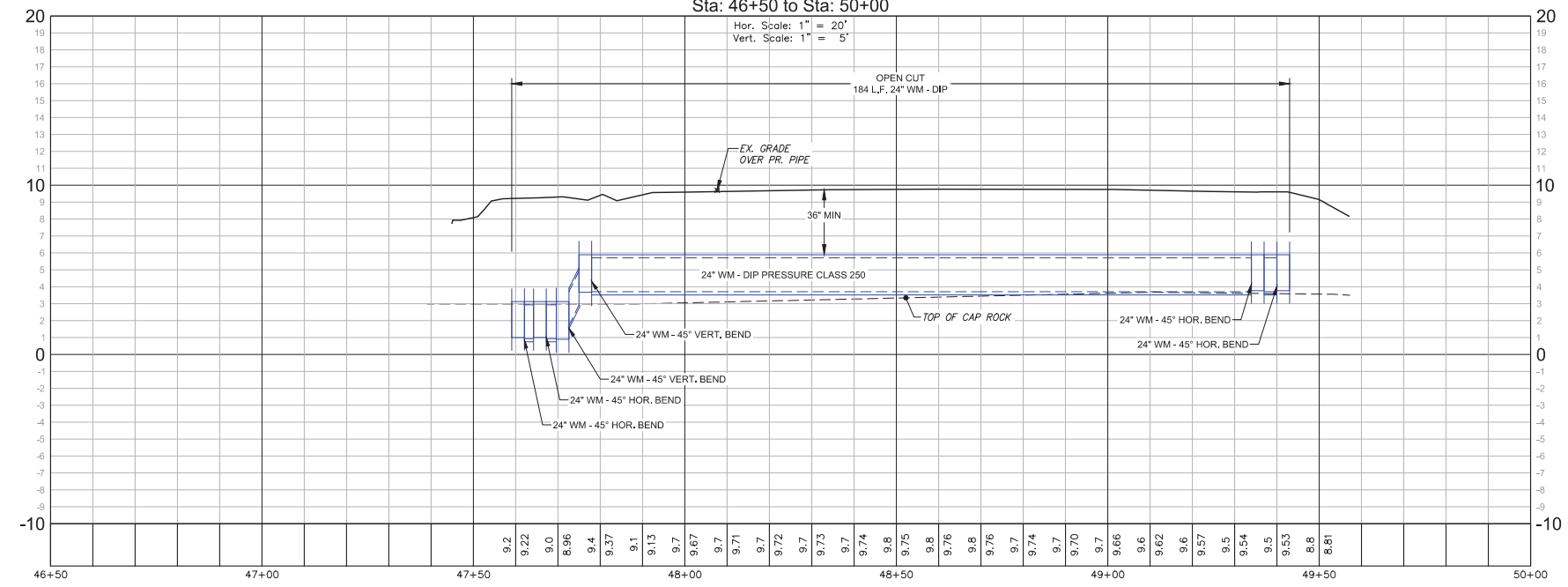
DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment B
Sta 46+50 to 50+00

SHEET NUMBER



Profile View of Alignment B
Sta: 46+50 to Sta: 50+00



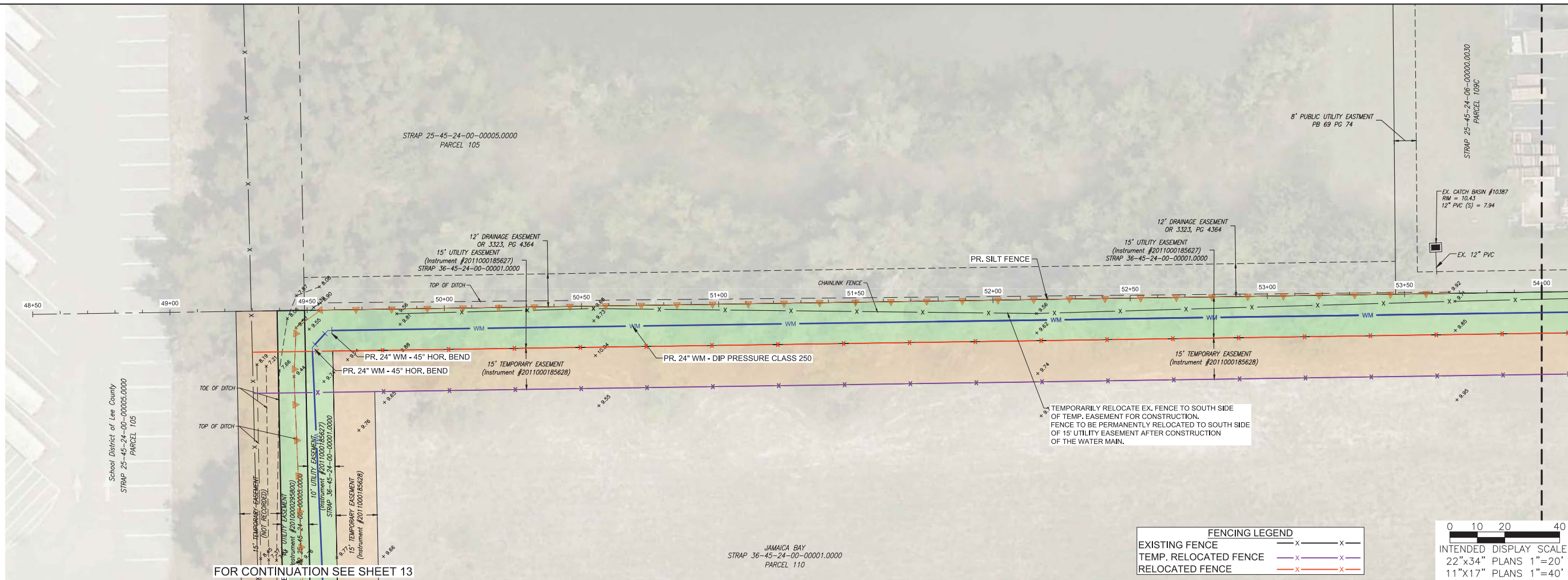
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment C
Sta 48+50 to 54+00

SHEET NUMBER

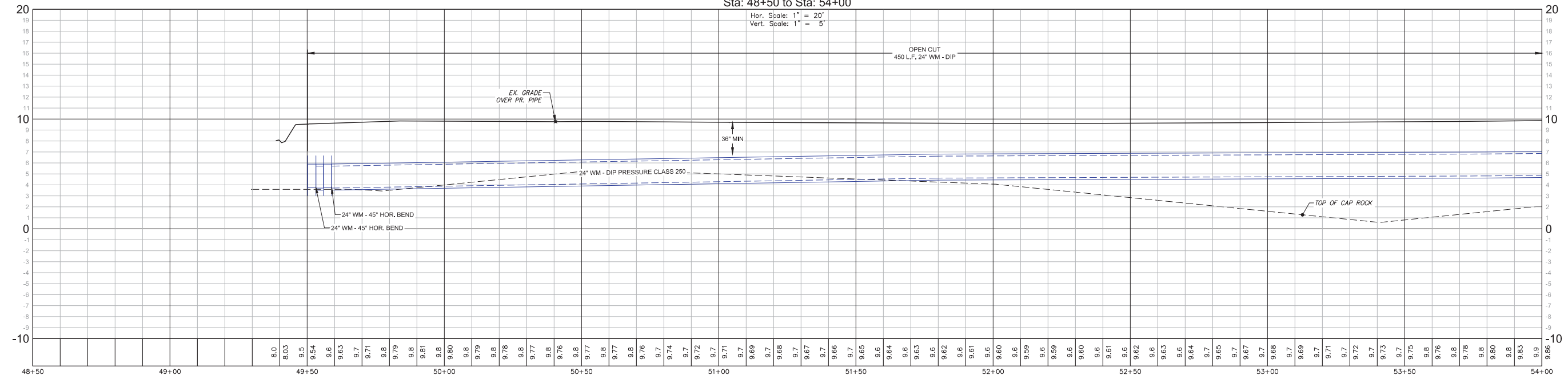


FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

0 10 20 40
INTENDED DISPLAY SCALE:
22"x34" PLANS 1"=20'
11"x17" PLANS 1"=40'

Profile View of Alignment C
Sta: 48+50 to Sta: 54+00



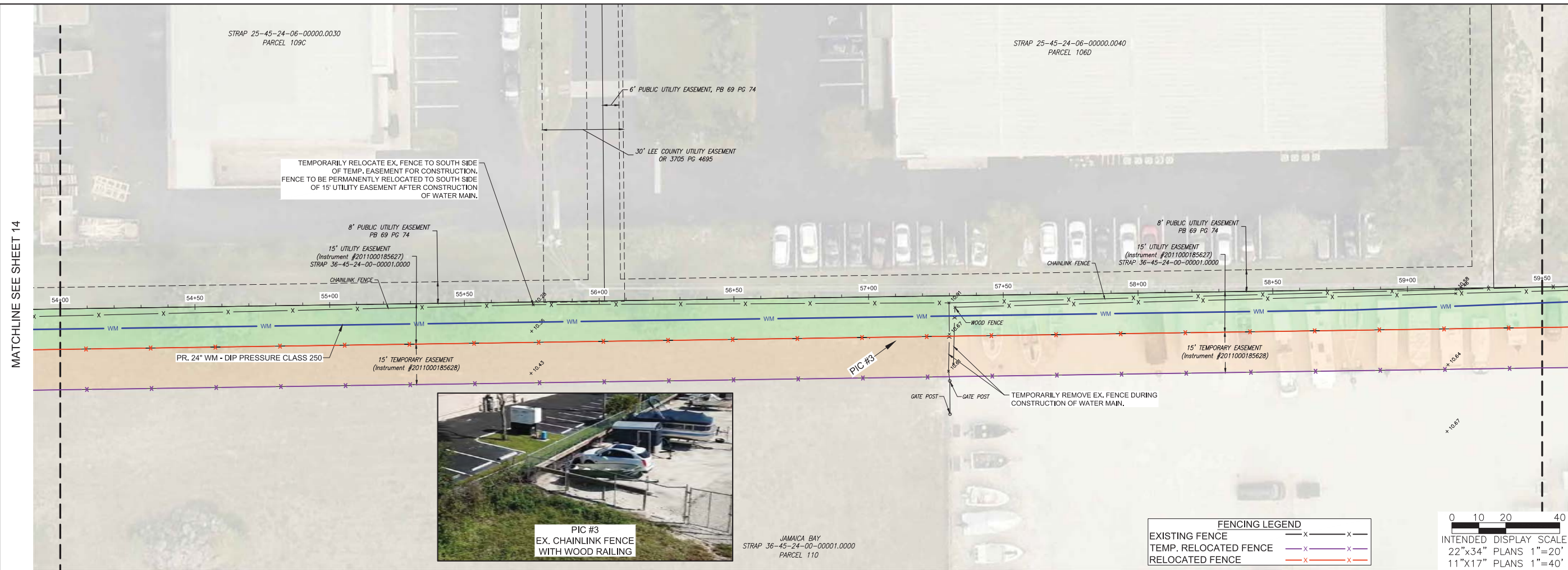
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

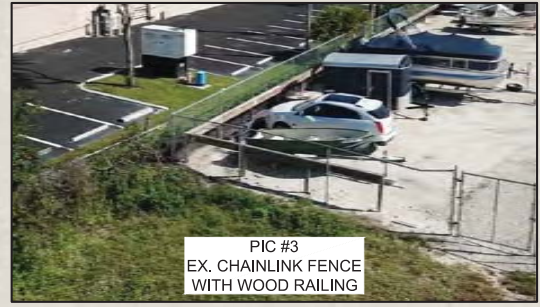
100% Construction Plans
Alignment C
Sta 54+00 to 59+50

SHEET NUMBER



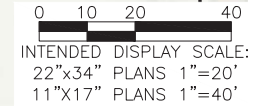
MATCHLINE SEE SHEET 14

MATCHLINE SEE SHEET 16

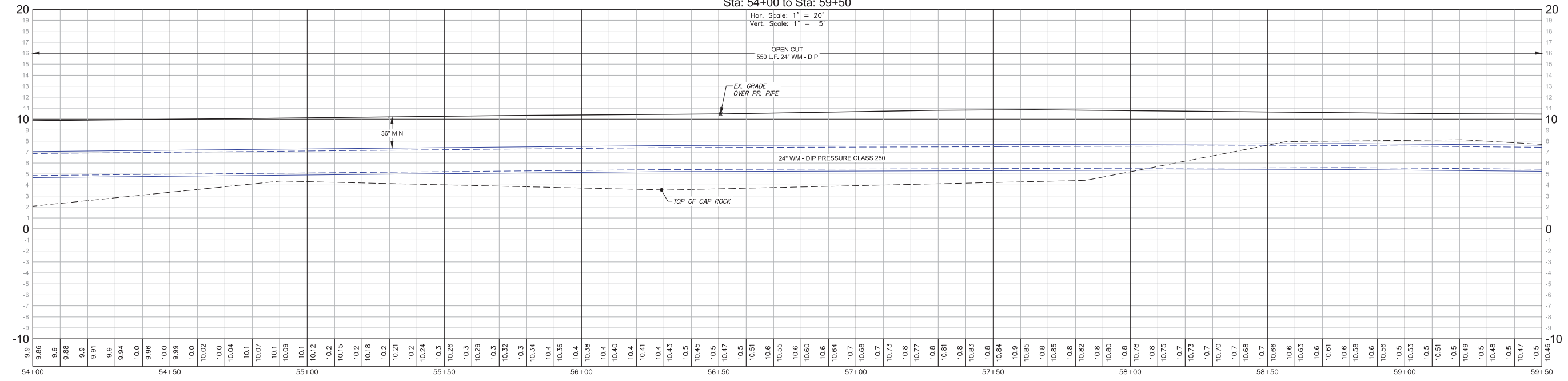


PIC #3
EX. CHAINLINK FENCE
WITH WOOD RAILING

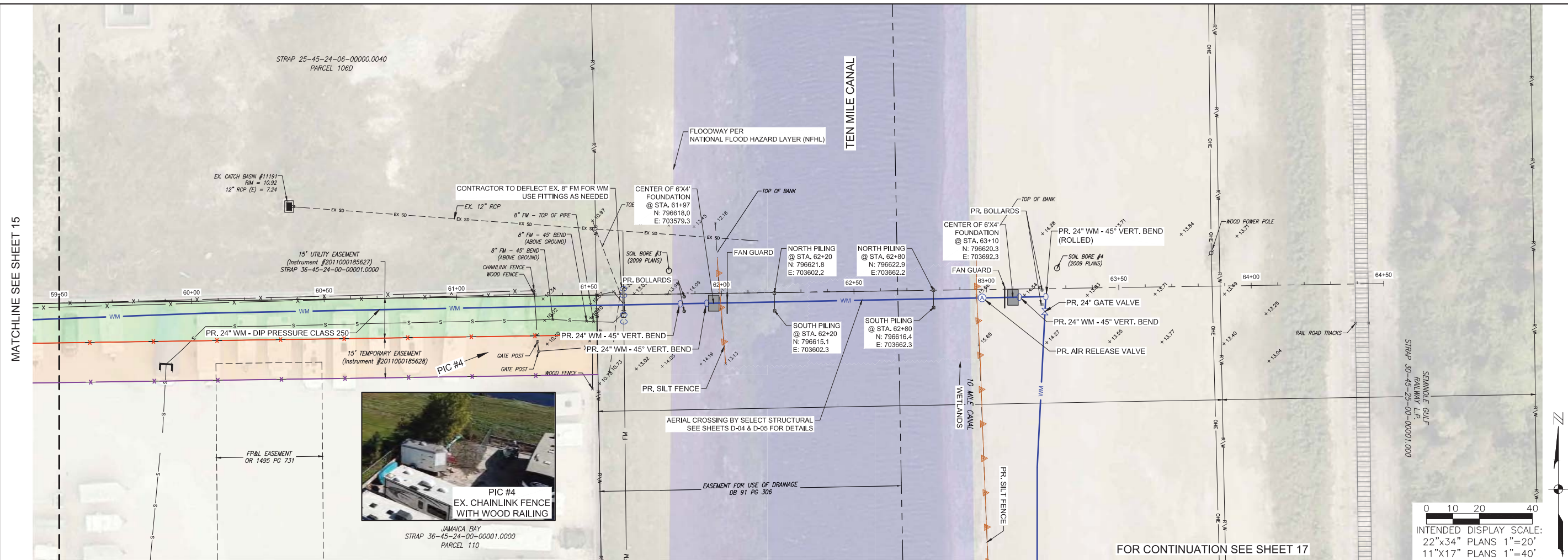
FENCING LEGEND	
EXISTING FENCE	-x-x-
TEMP. RELOCATED FENCE	-x-x-
RELOCATED FENCE	-x-x-



Profile View of Alignment C
Sta: 54+00 to Sta: 59+50



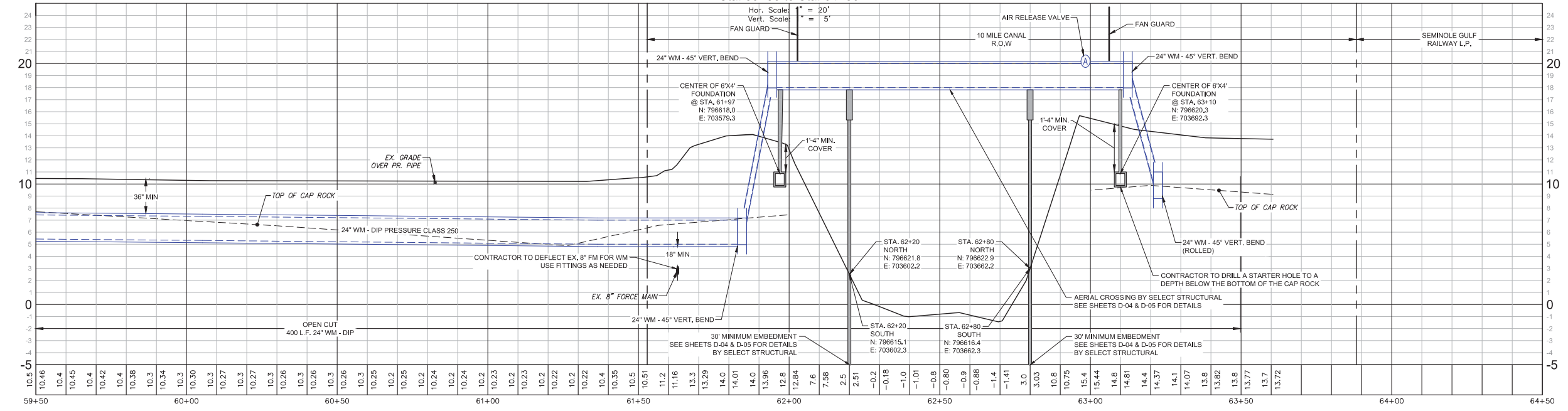
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

**Profile View of Alignment C
Sta: 59+50 to Sta: 64+50**



REVISIONS

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment C
Sta 59+50 to 64+50

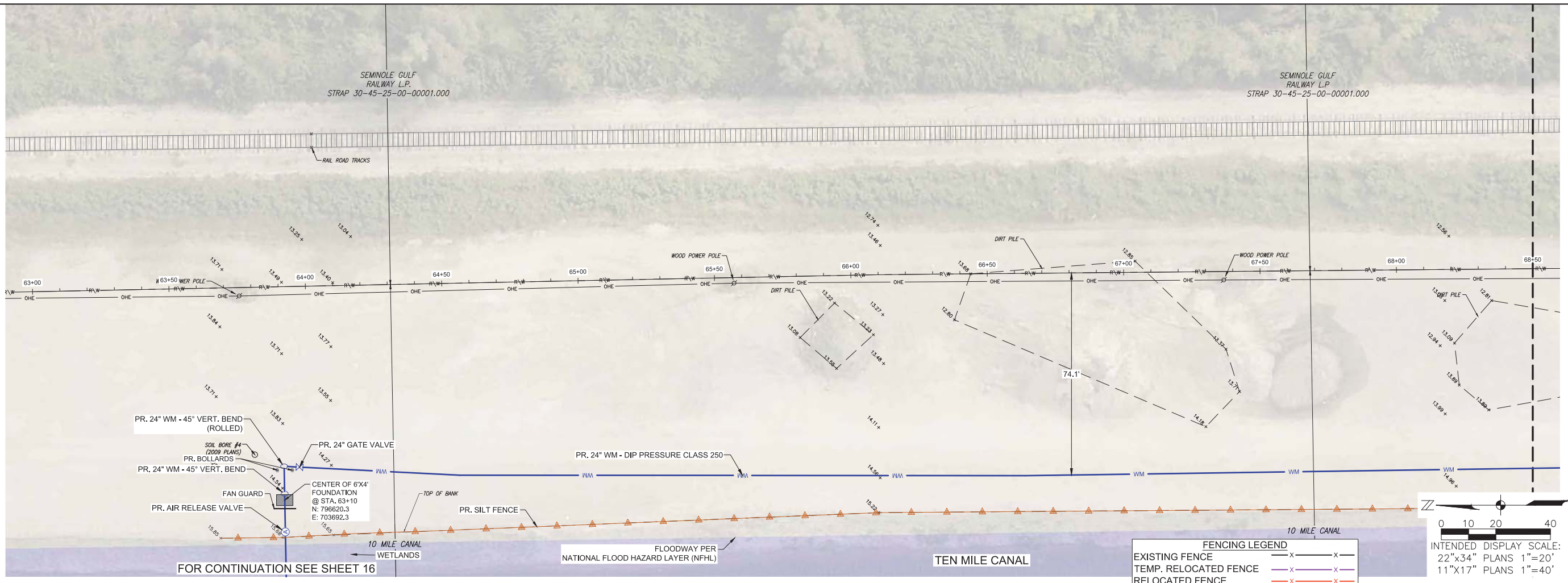
SHEET NUMBER

NO.	DESCRIPTION	DATE

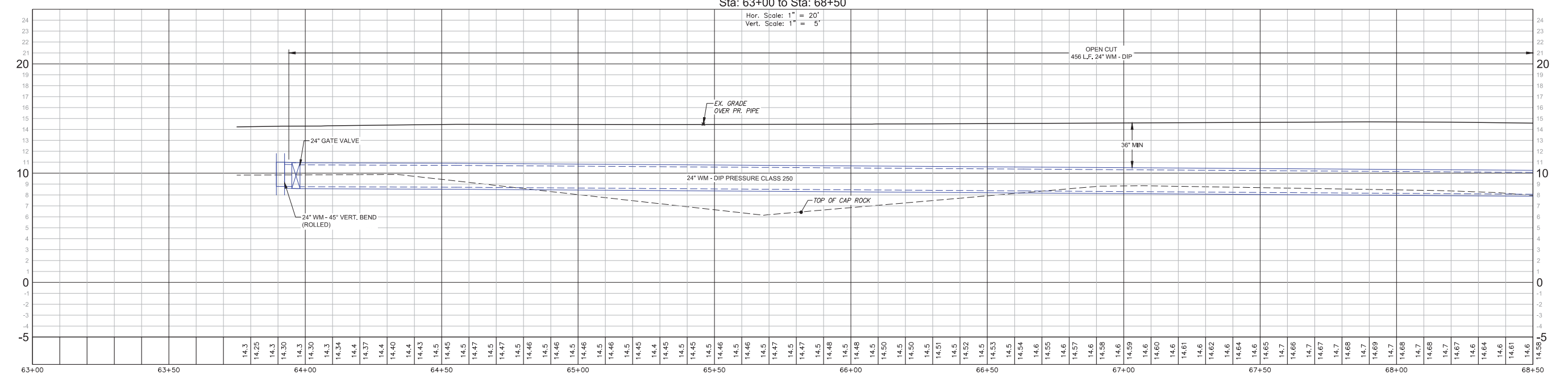
DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 63+00 to 68+50

SHEET NUMBER



Profile View of Alignment D
Sta: 63+00 to Sta: 68+50



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

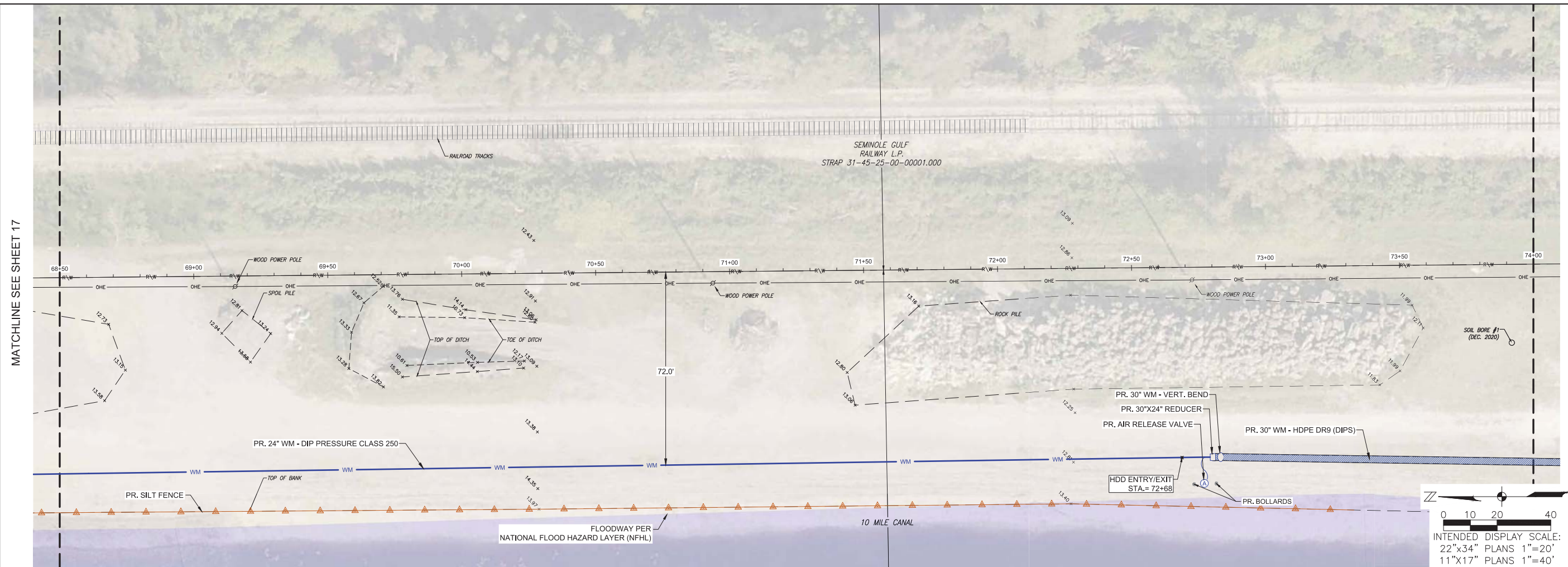
MATCHLINE SEE SHEET 18

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 68+50 to 74+00

SHEET NUMBER



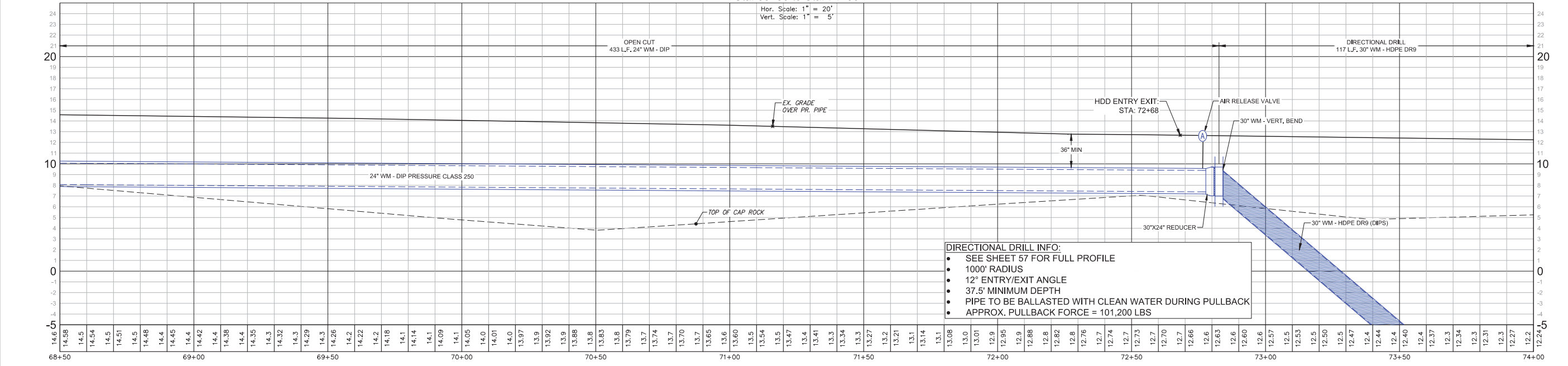
MATCHLINE SEE SHEET 17

MATCHLINE SEE SHEET 19

FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment D
Sta: 68+50 to Sta: 74+00

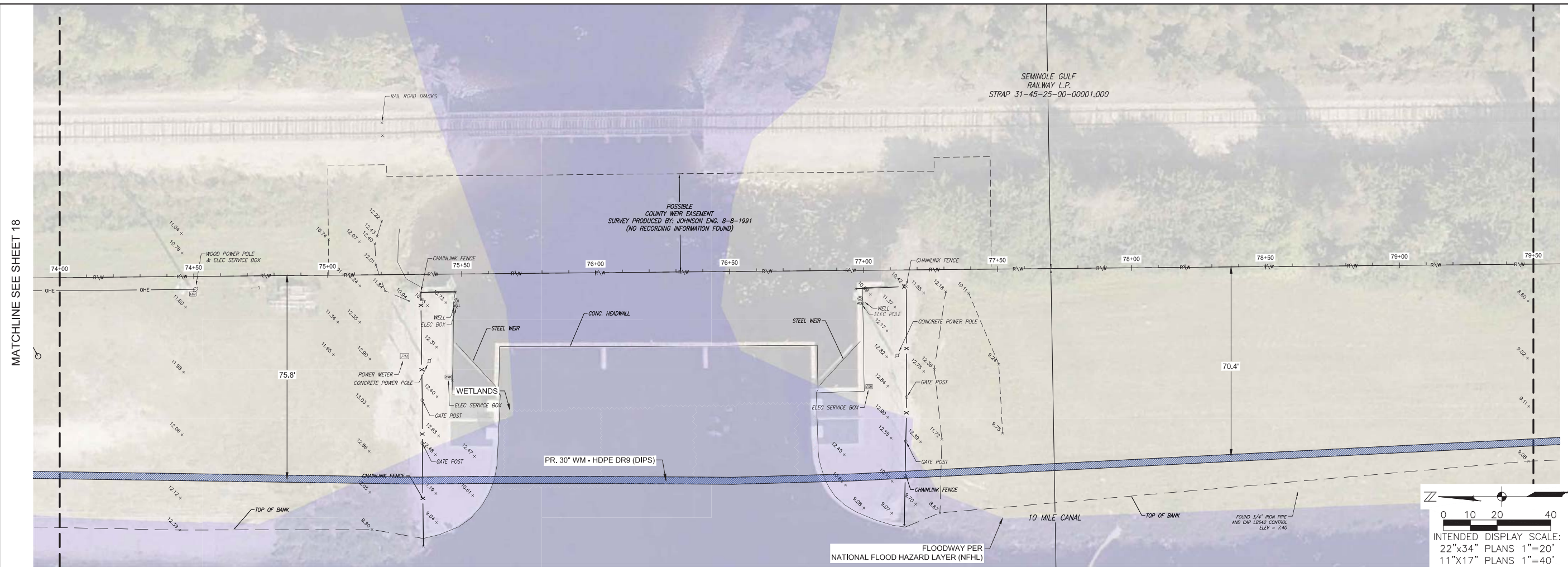


NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 74+00 to 79+50

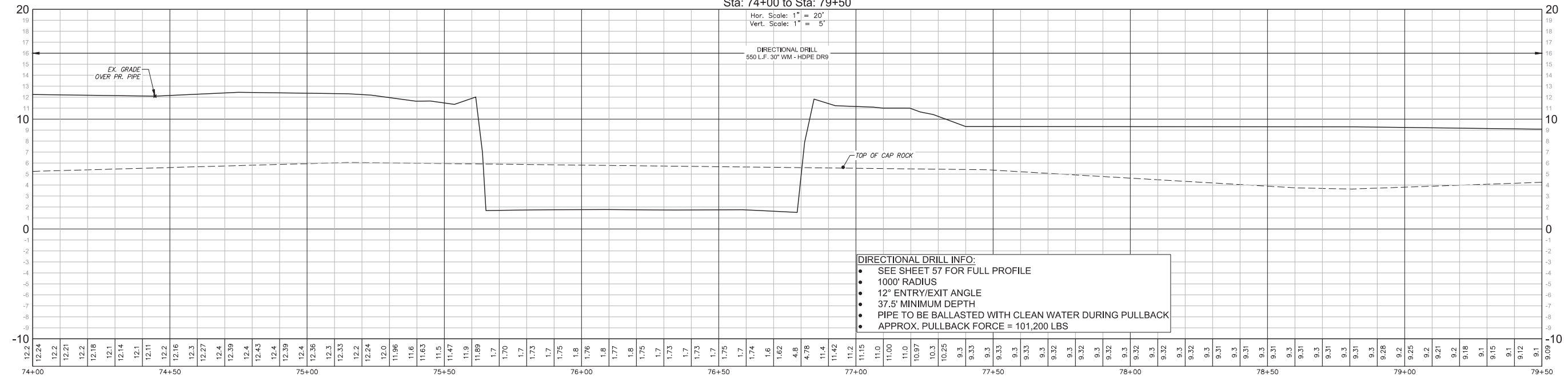
SHEET NUMBER



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- - x - - x -
RELOCATED FENCE	— x — x —

Profile View of Alignment D
Sta: 74+00 to Sta: 79+50



DIRECTIONAL DRILL INFO:

- SEE SHEET 57 FOR FULL PROFILE
- 1000' RADIUS
- 12° ENTRY/EXIT ANGLE
- 37.5' MINIMUM DEPTH
- PIPE TO BE BALLASTED WITH CLEAN WATER DURING PULLBACK
- APPROX. PULLBACK FORCE = 101,200 LBS

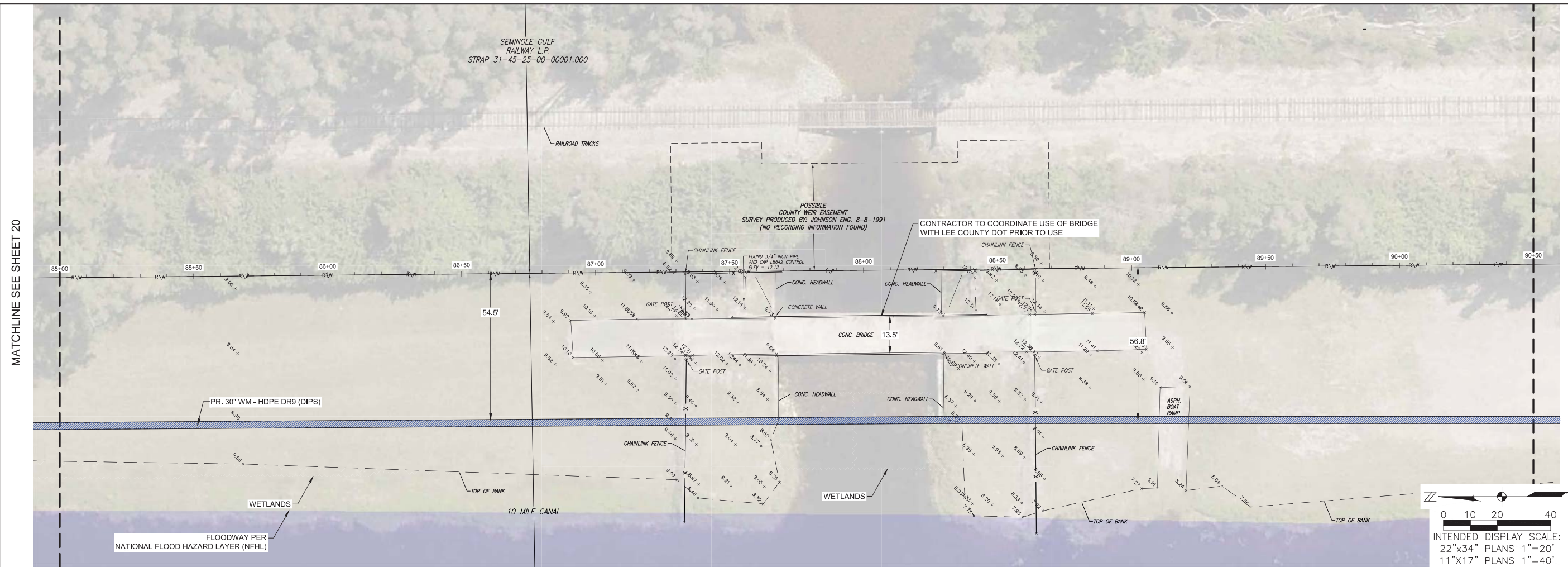
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 85+00 to 90+50

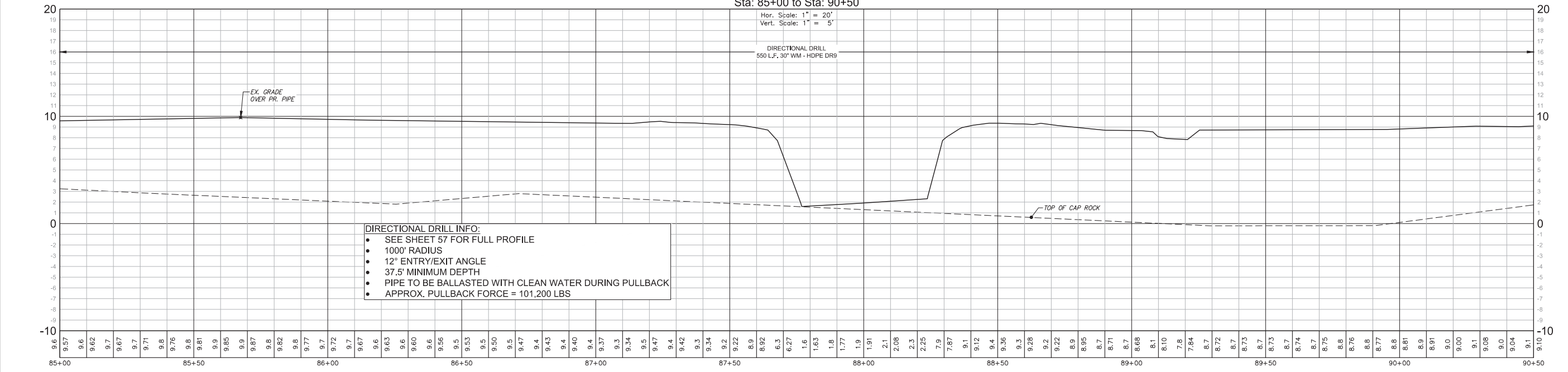
SHEET NUMBER



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

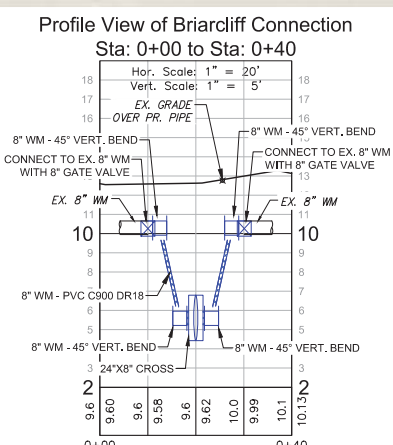
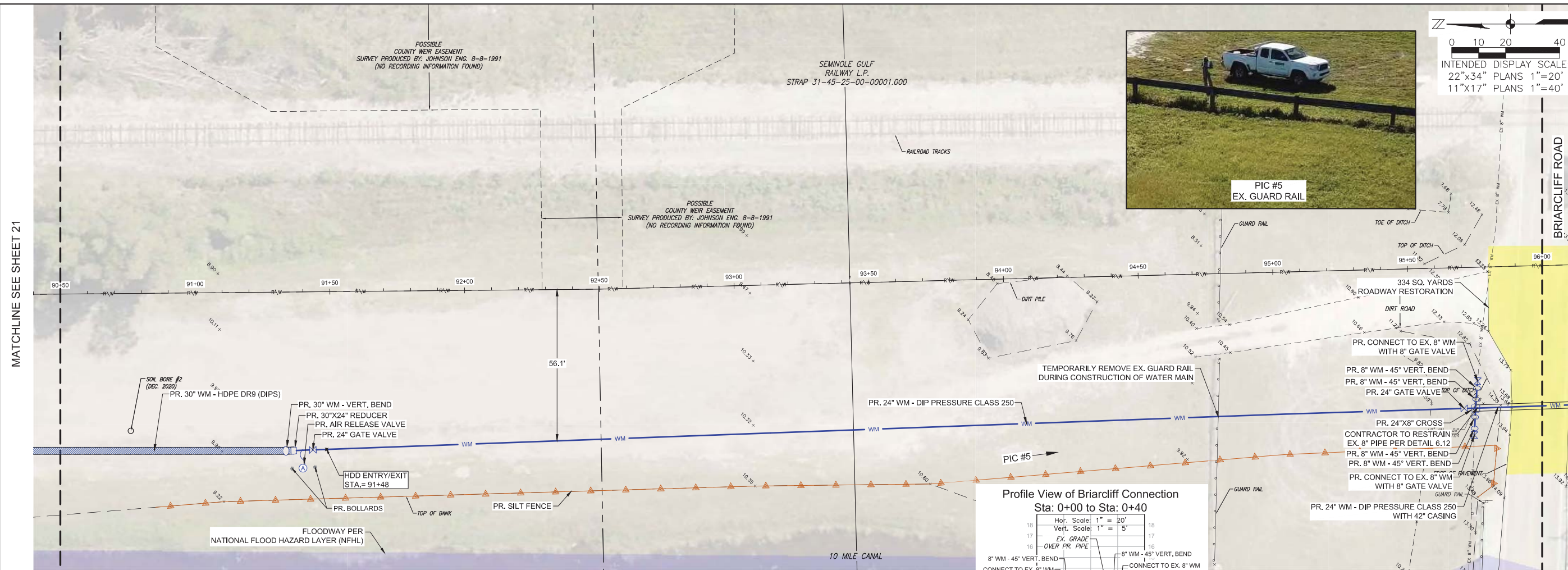
Profile View of Alignment D
Sta: 85+00 to Sta: 90+50



DIRECTIONAL DRILL INFO:

- SEE SHEET 57 FOR FULL PROFILE
- 1000' RADIUS
- 12° ENTRY/EXIT ANGLE
- 37.5' MINIMUM DEPTH
- PIPE TO BE BALLASTED WITH CLEAN WATER DURING PULLBACK
- APPROX. PULLBACK FORCE = 101,200 LBS

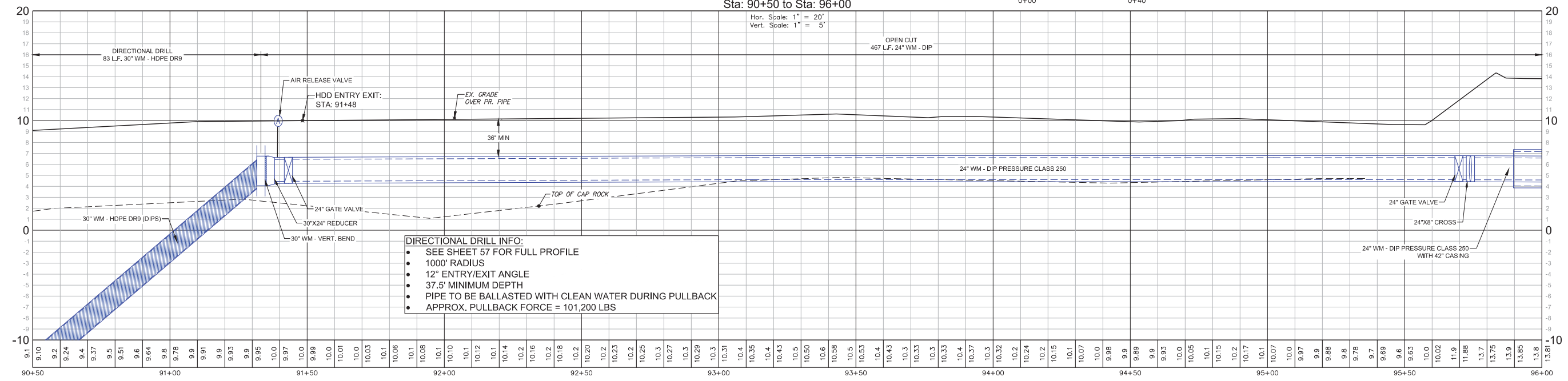
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).



FENCING LEGEND

EXISTING FENCE	-x-x-
TEMP. RELOCATED FENCE	-x-x-x-
RELOCATED FENCE	-x-x-x-x-

**Profile View of Alignment D
Sta: 90+50 to Sta: 96+00**



DIRECTIONAL DRILL INFO:

- SEE SHEET 57 FOR FULL PROFILE
- 1000' RADIUS
- 12° ENTRY/EXIT ANGLE
- 37.5' MINIMUM DEPTH
- PIPE TO BE BALLASTED WITH CLEAN WATER DURING PULLBACK
- APPROX. PULLBACK FORCE = 101,200 LBS

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 FL License No. 69783

LEE COUNTY
 SOUTHWEST FLORIDA

RSW TRANSMISSION LINE
 - BEN HILL/TREELINE
 Lee County, Florida

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

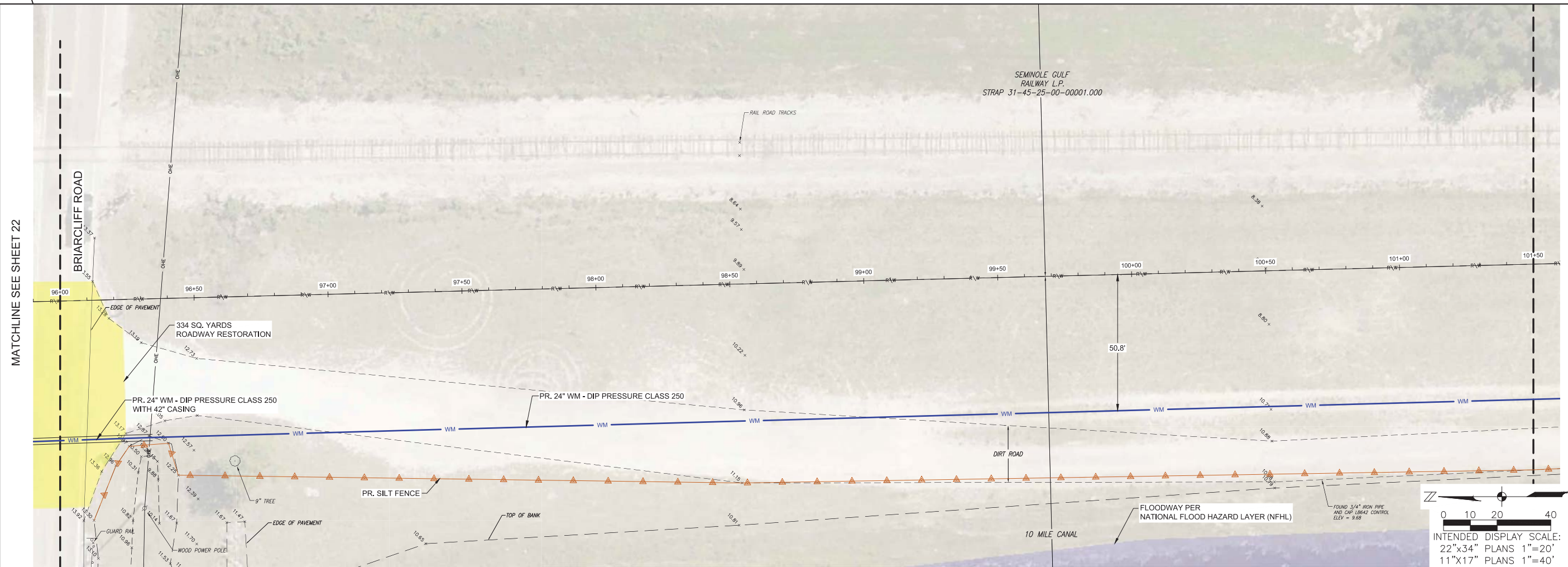
100% Construction Plans
 Alignment D
 Sta 90+50 to 96+00

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 96+00 to 101+50

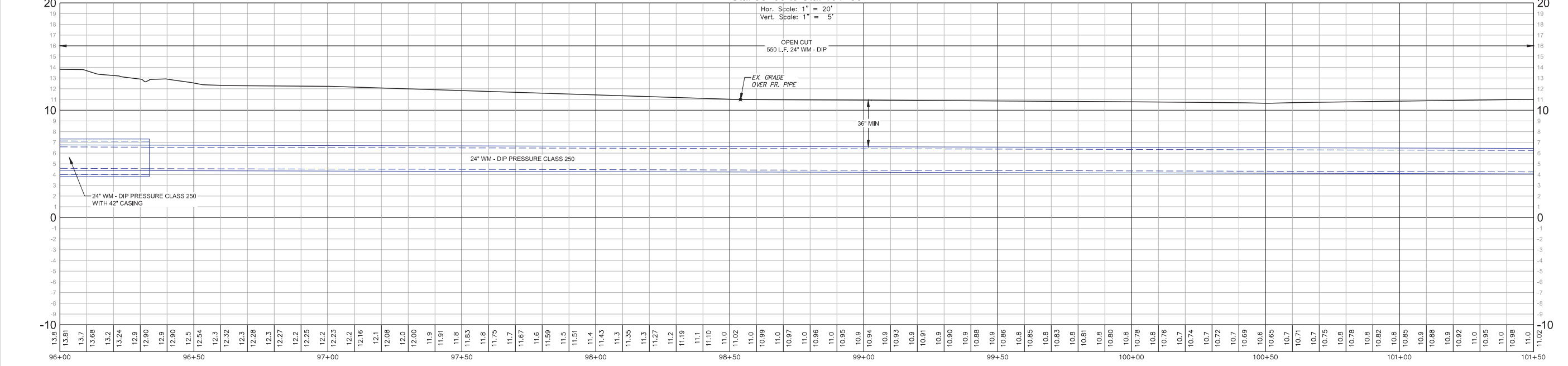
SHEET NUMBER



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- - x - - x - -
RELOCATED FENCE	- - x - - x - -

Profile View of Alignment D
Sta: 96+00 to Sta: 101+50



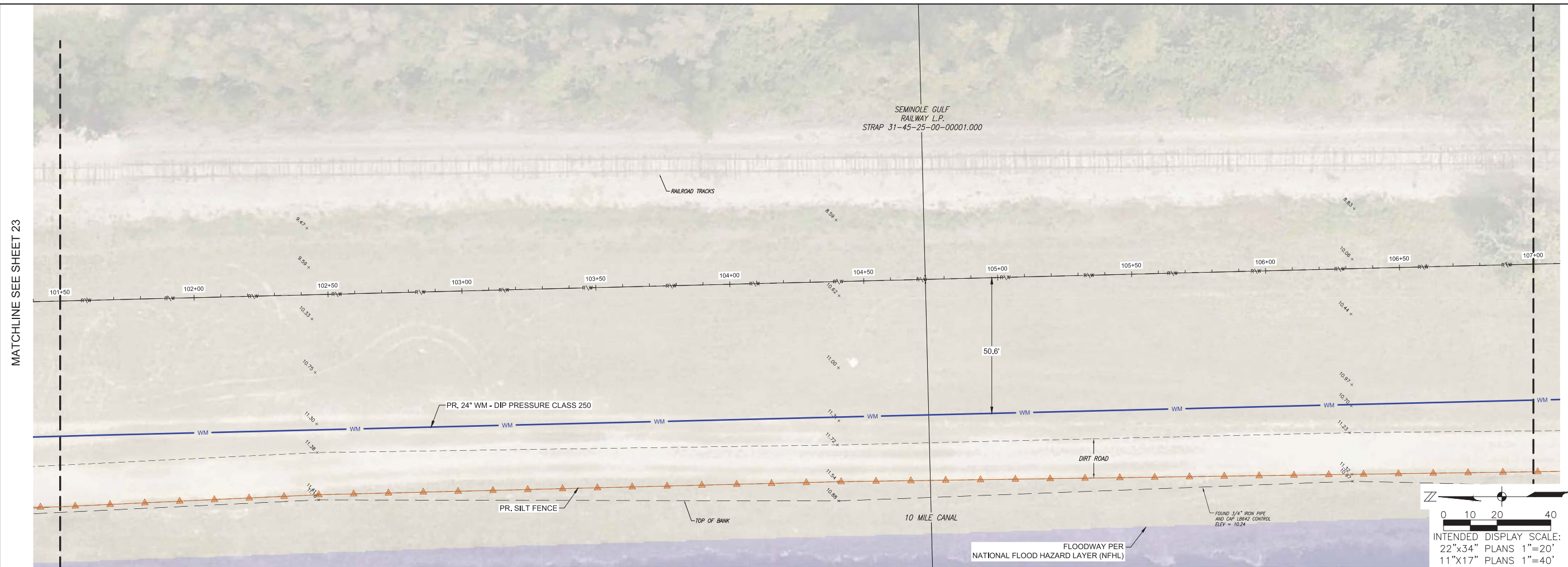
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 101+50 to 107+00

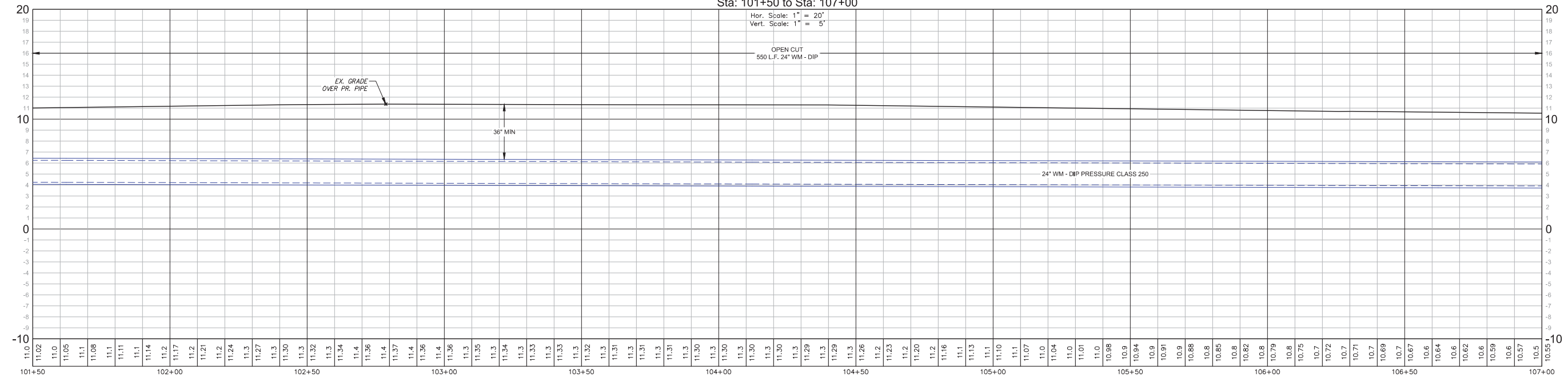
SHEET NUMBER



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment D
Sta: 101+50 to Sta: 107+00



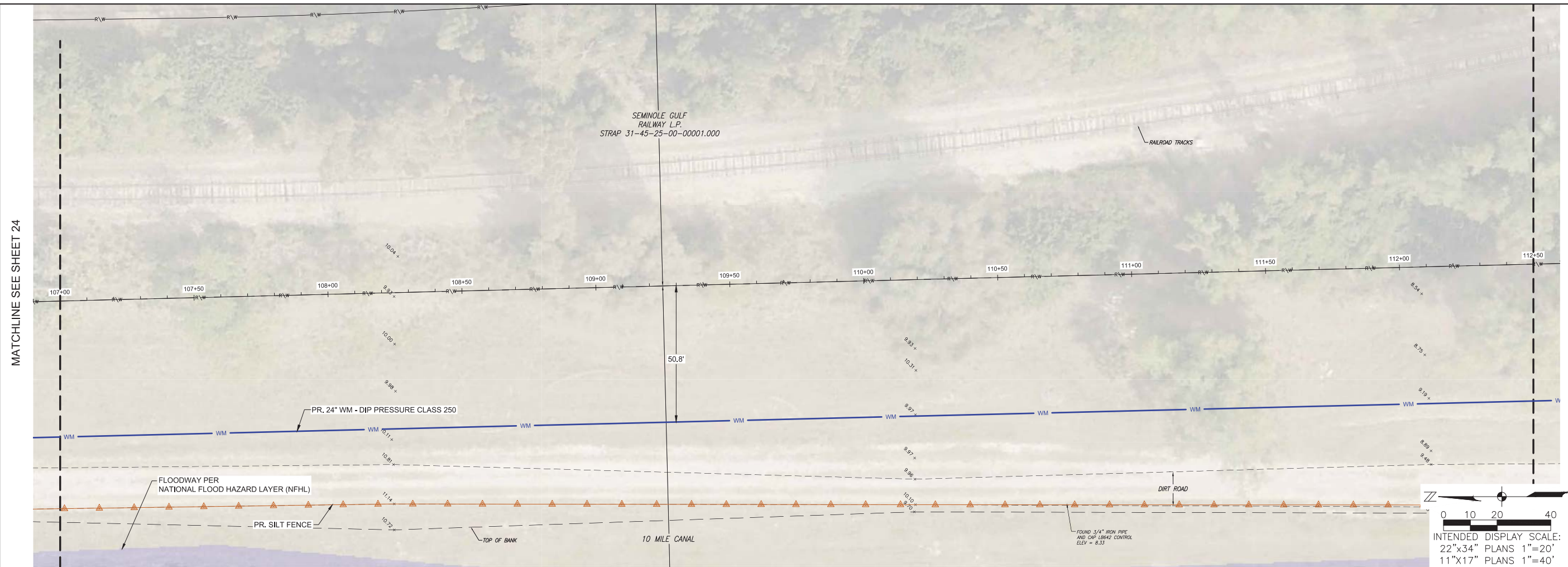
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 107+00 to 112+50

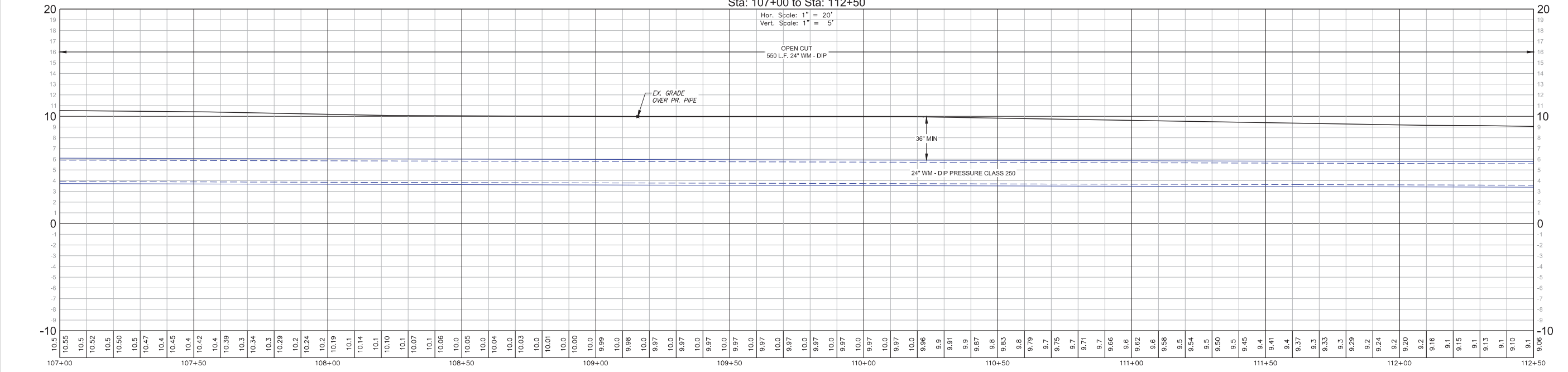
SHEET NUMBER



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- x - x -
RELOCATED FENCE	- x - x -

Profile View of Alignment D
Sta: 107+00 to Sta: 112+50



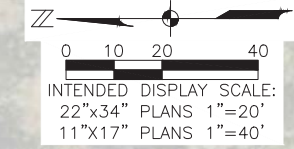
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Alignment D
 Sta 112+50 to 118+00

SHEET NUMBER



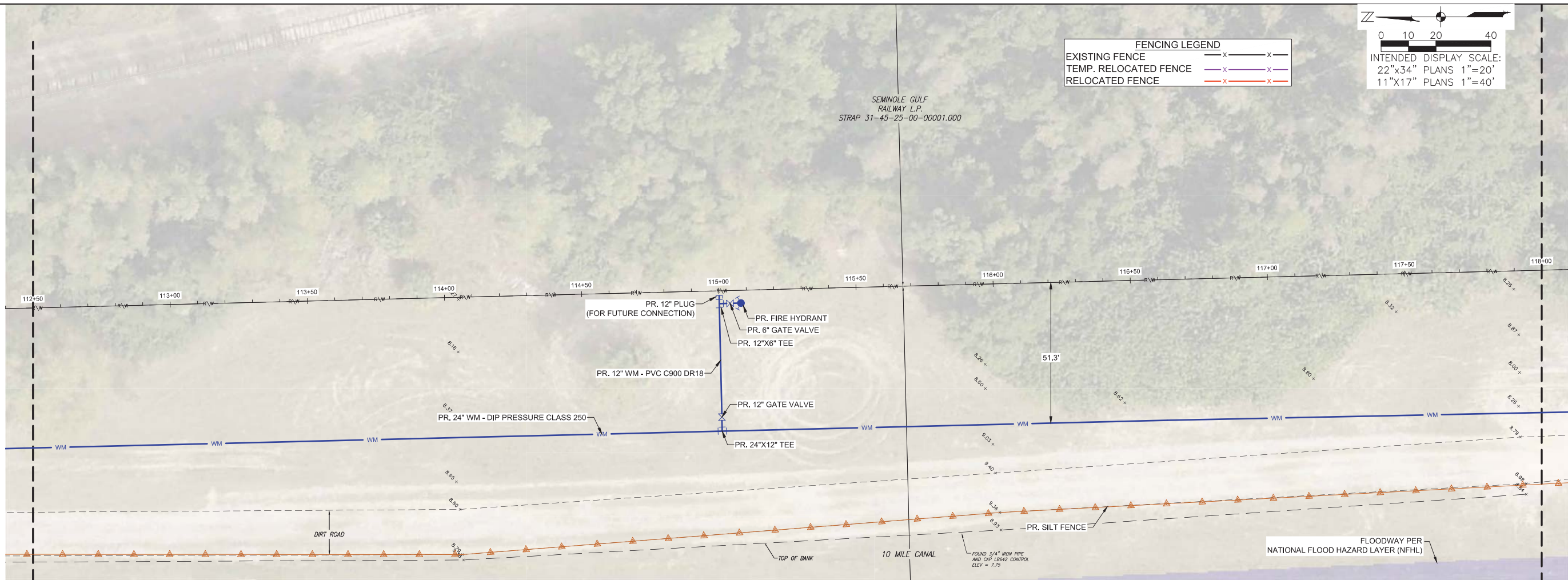
FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

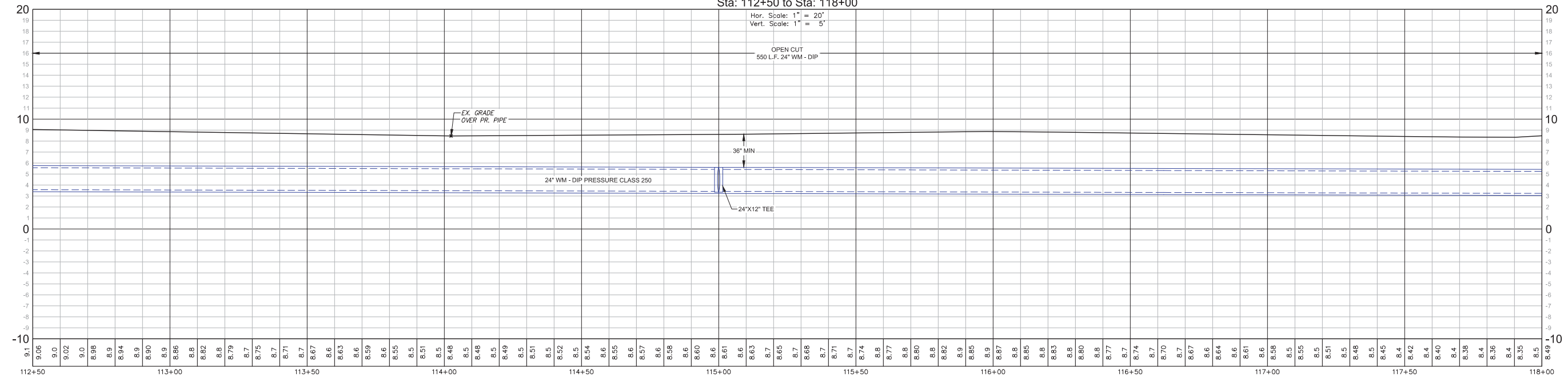
SEMINOLE GULF RAILWAY L.P.
 STRAP 31-45-25-00-00001.000

MATCHLINE SEE SHEET 25

MATCHLINE SEE SHEET 27



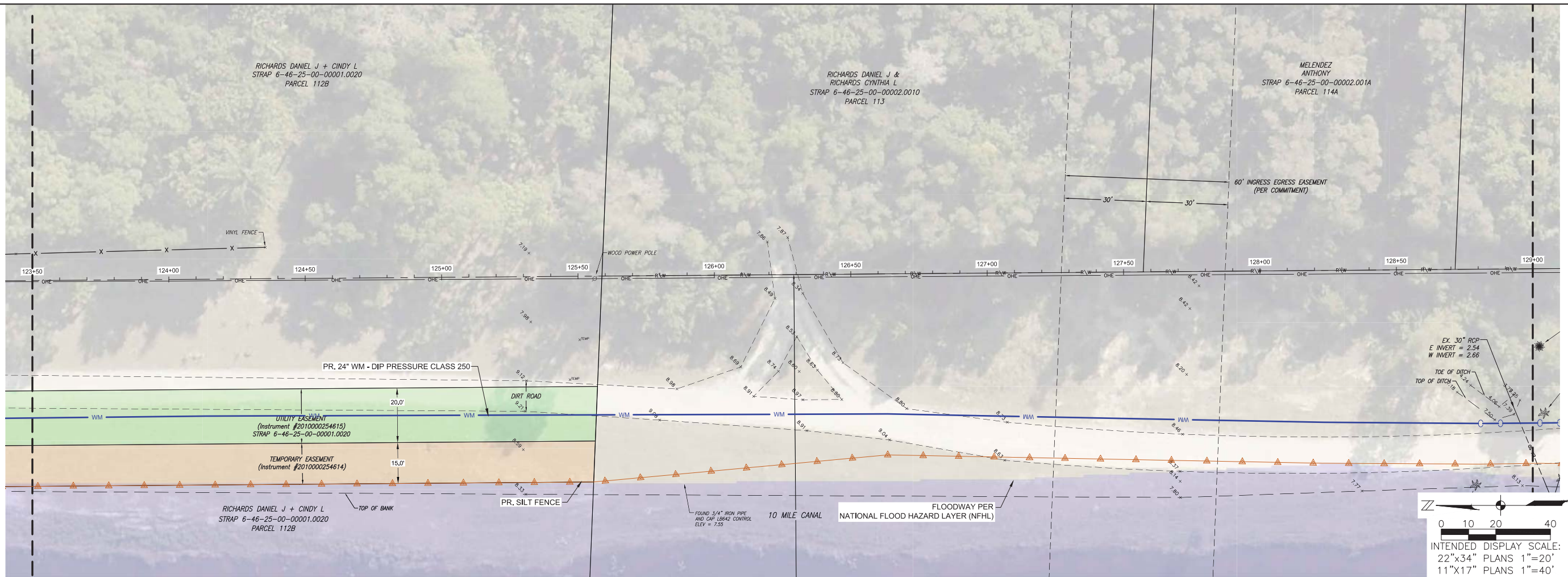
Profile View of Alignment D
 Sta: 112+50 to Sta: 118+00



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

MATCHLINE SEE SHEET 27

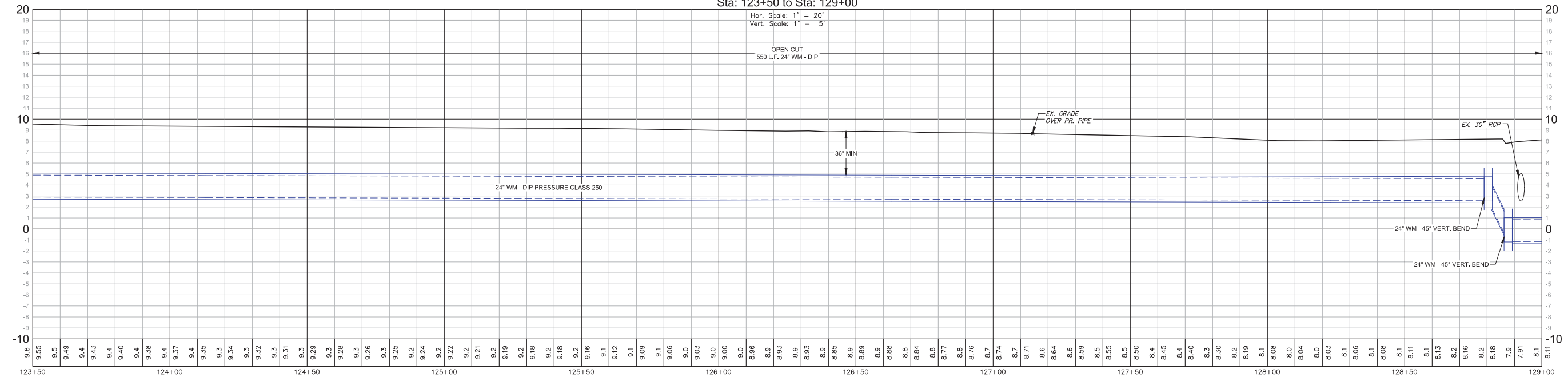
MATCHLINE SEE SHEET 29



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment D
Sta: 123+50 to Sta: 129+00



REVISIONS

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 123+50 to 129+00

SHEET NUMBER

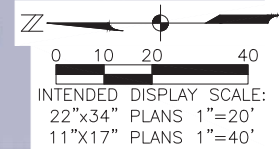
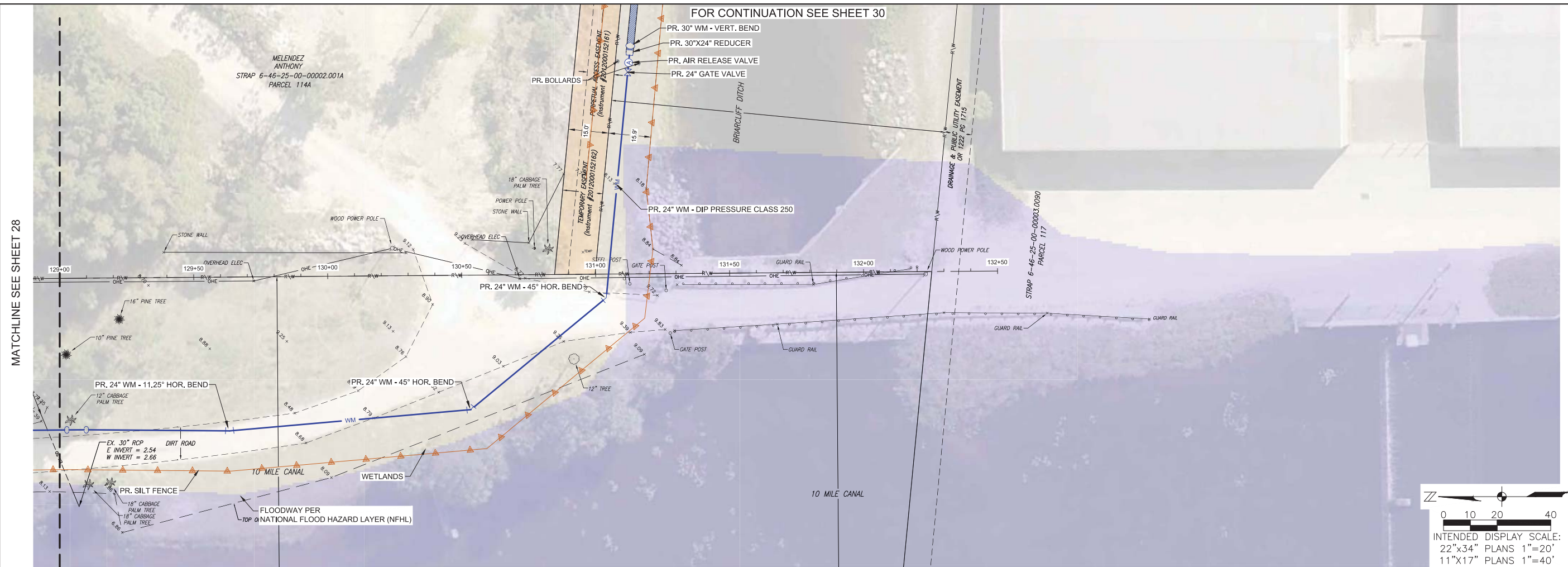
NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment D
Sta 129+00 to 132+50

SHEET NUMBER

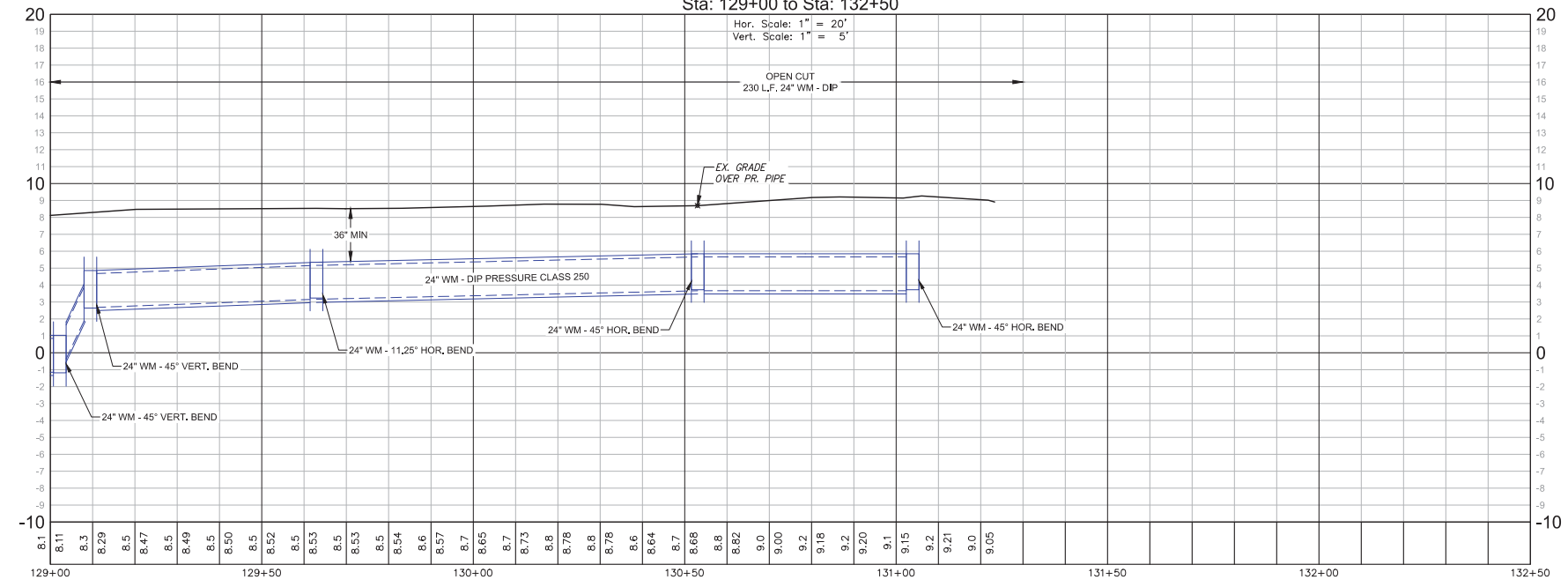
FOR CONTINUATION SEE SHEET 30



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- - - x - - - x - - -
RELOCATED FENCE	— x — x —

Profile View of Alignment D
Sta: 129+00 to Sta: 132+50



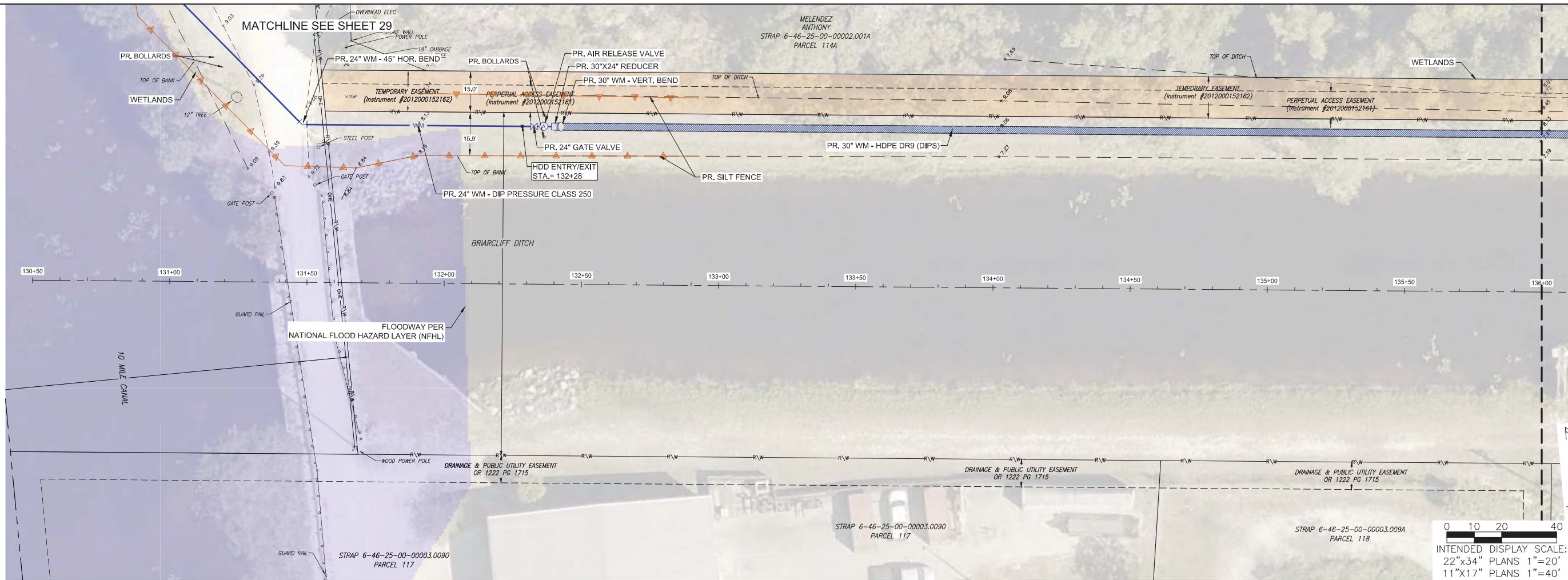
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment E
Sta 130+50 to 136+00

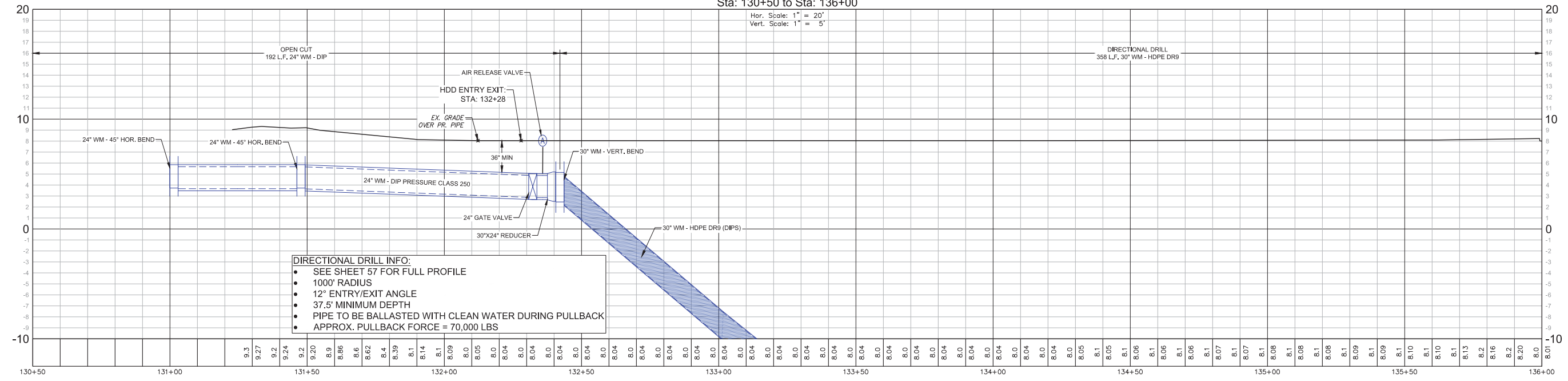
SHEET NUMBER



FENCING LEGEND

EXISTING FENCE	— x —
TEMP. RELOCATED FENCE	- - - x - - -
RELOCATED FENCE	— x —

Profile View of Alignment E
Sta: 130+50 to Sta: 136+00

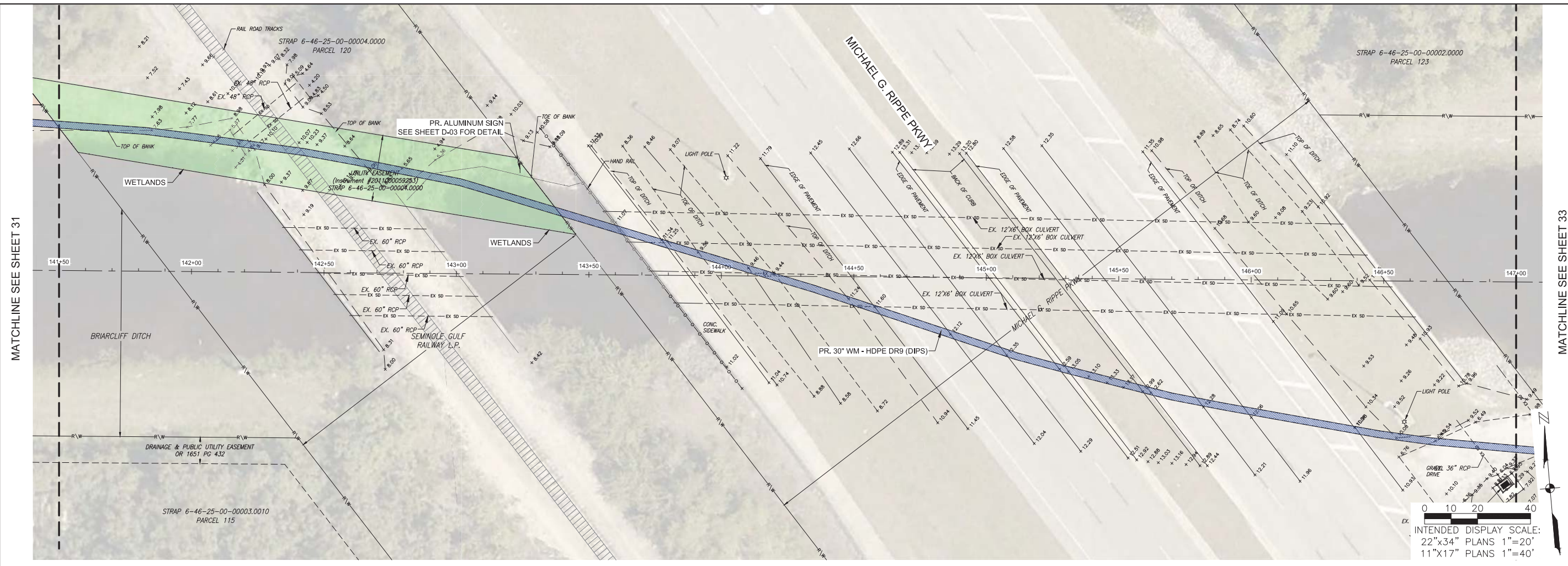


NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Alignment E
 Sta 141+50 to 147+00

SHEET NUMBER



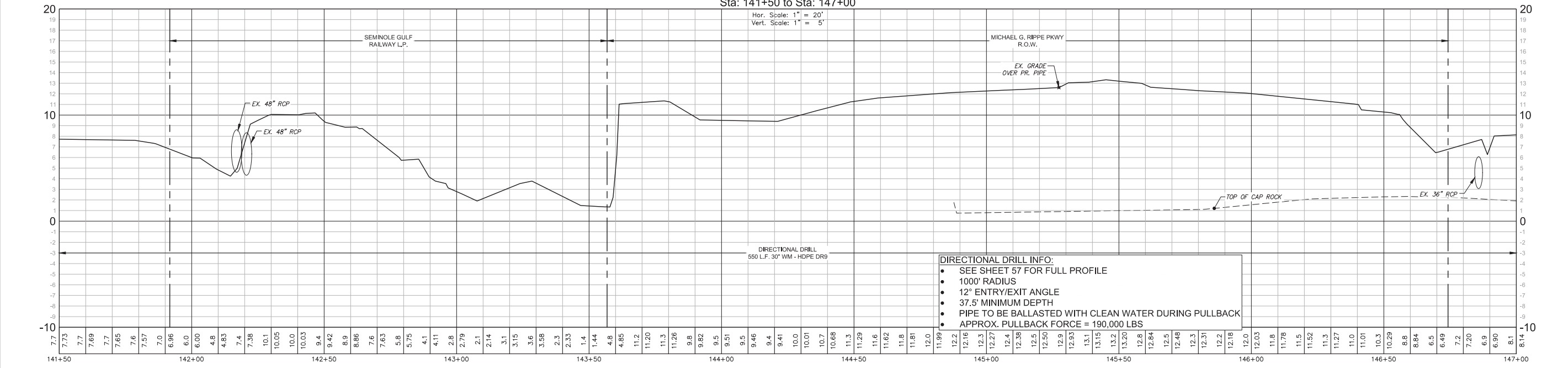
MATCHLINE SEE SHEET 31

MATCHLINE SEE SHEET 33

FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment E
 Sta: 141+50 to Sta: 147+00





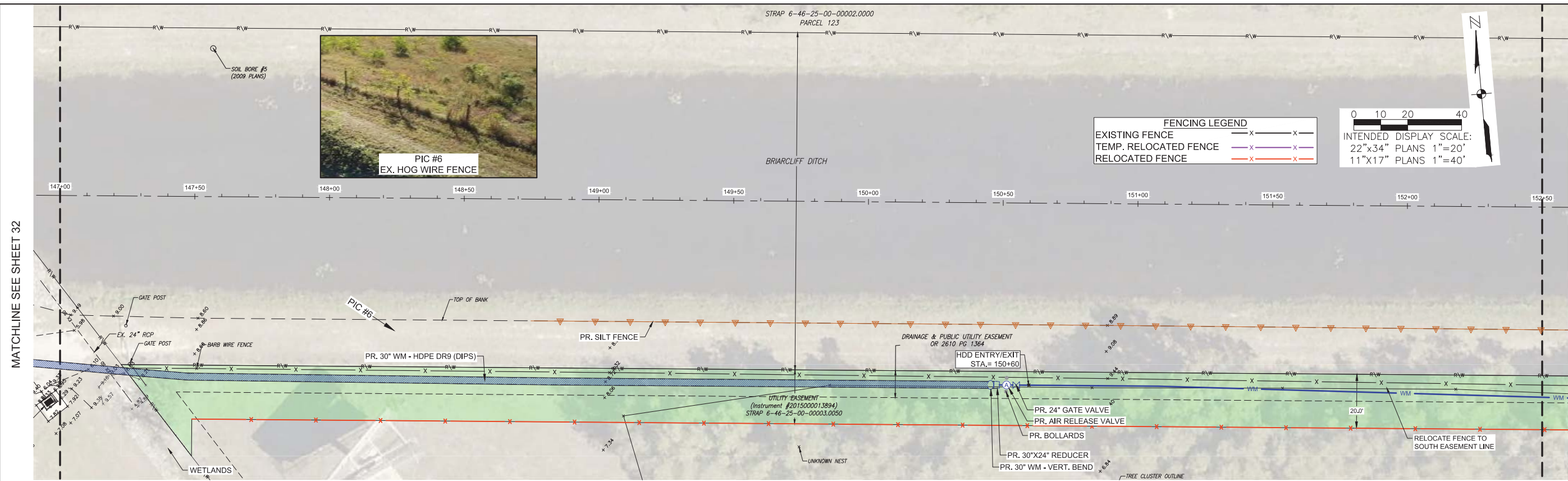
RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment E
Sta 147+00 to 152+50

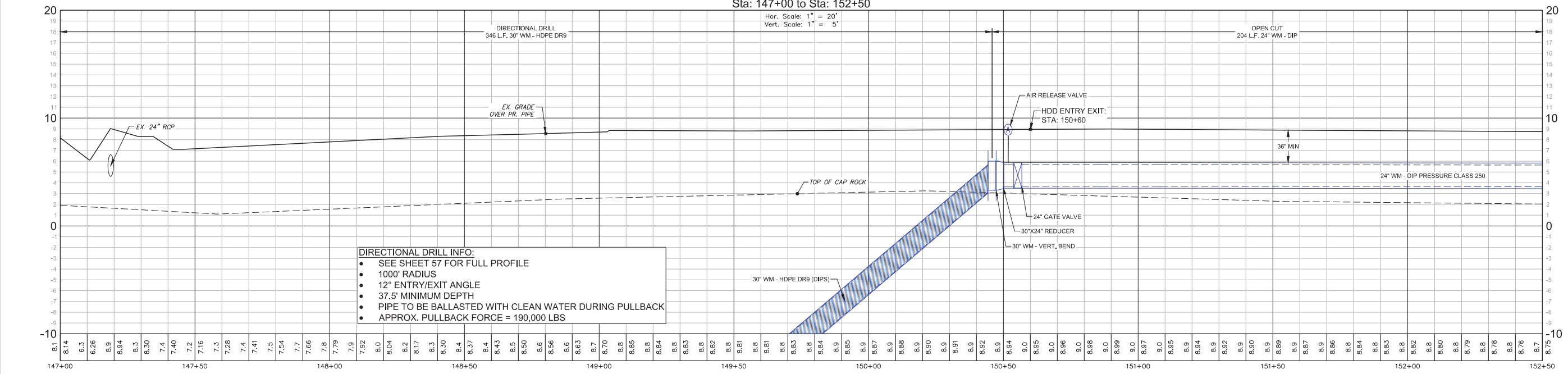
SHEET NUMBER



MATCHLINE SEE SHEET 32

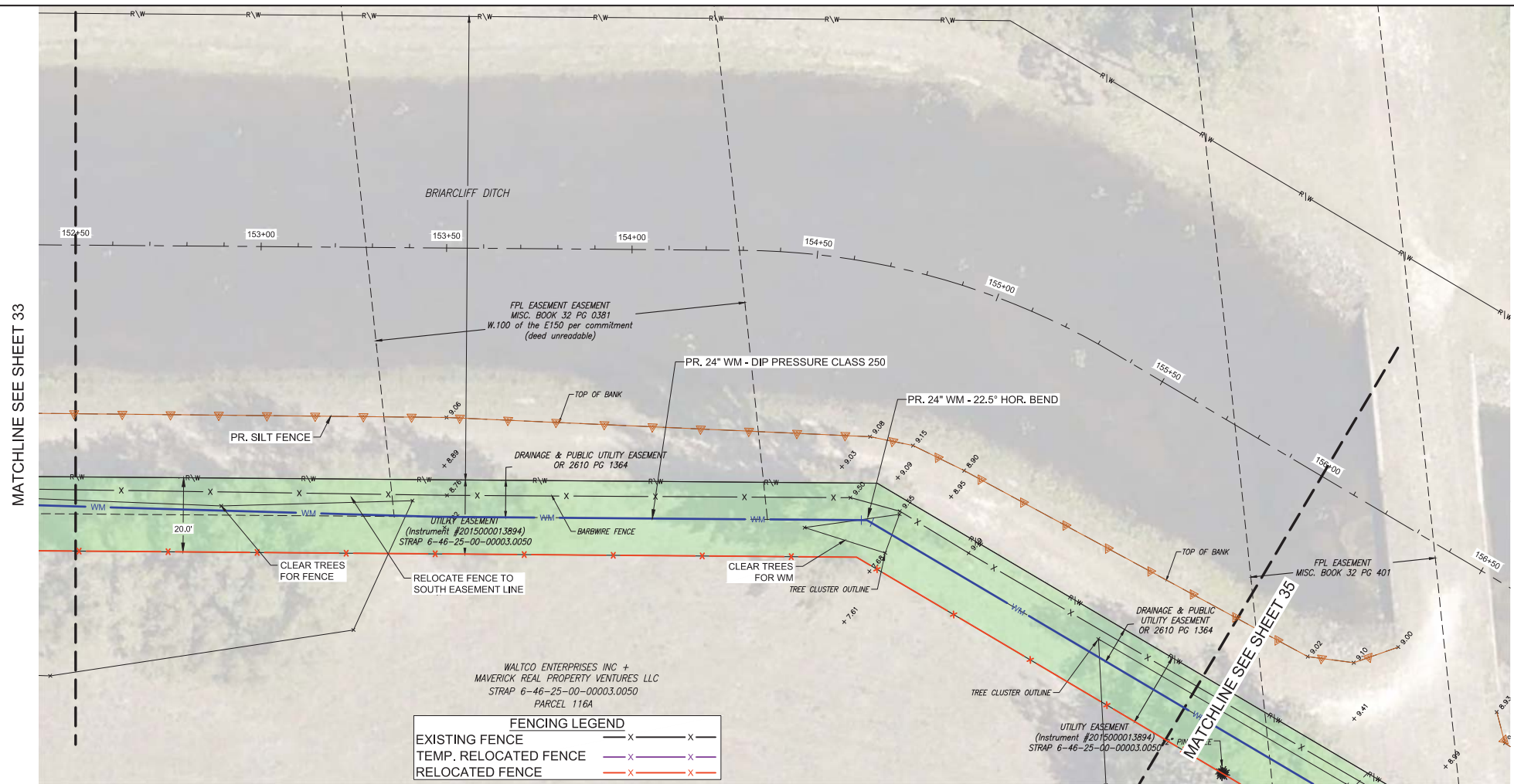
MATCHLINE SEE SHEET 34

Profile View of Alignment E
Sta: 147+00 to Sta: 152+50



DIRECTIONAL DRILL INFO:

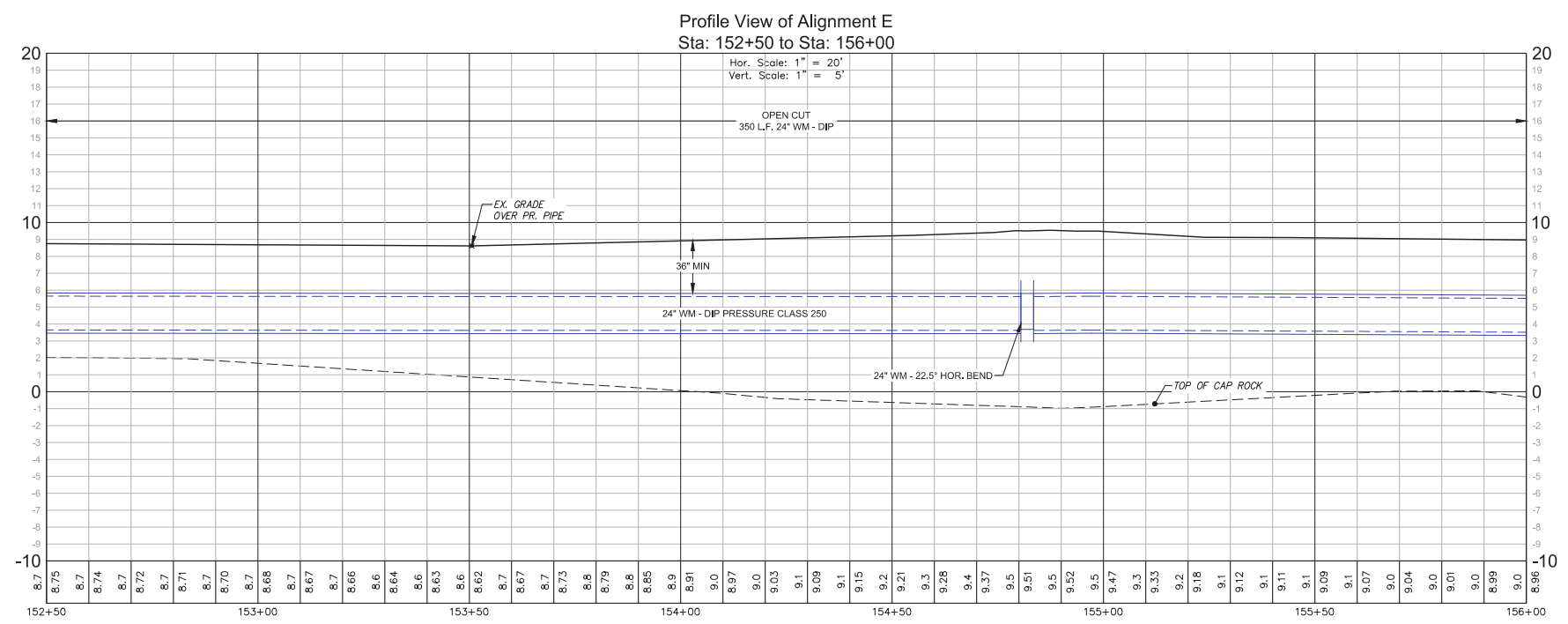
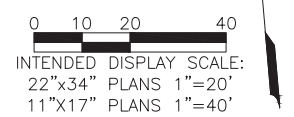
- SEE SHEET 57 FOR FULL PROFILE
- 1000' RADIUS
- 12° ENTRY/EXIT ANGLE
- 37.5' MINIMUM DEPTH
- PIPE TO BE BALLASTED WITH CLEAN WATER DURING PULLBACK
- APPROX. PULLBACK FORCE = 190,000 LBS



MATCHLINE SEE SHEET 33

MATCHLINE SEE SHEET 35

FENCING LEGEND	
EXISTING FENCE	— X — X —
TEMP. RELOCATED FENCE	— X — X —
RELOCATED FENCE	— X — X —



RSW TRANSMISSION LINE
 - BEN HILL/TREELINE
 Lee County, Florida

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Alignment E
 Sta 152+50 to
 156+00

SHEET NUMBER

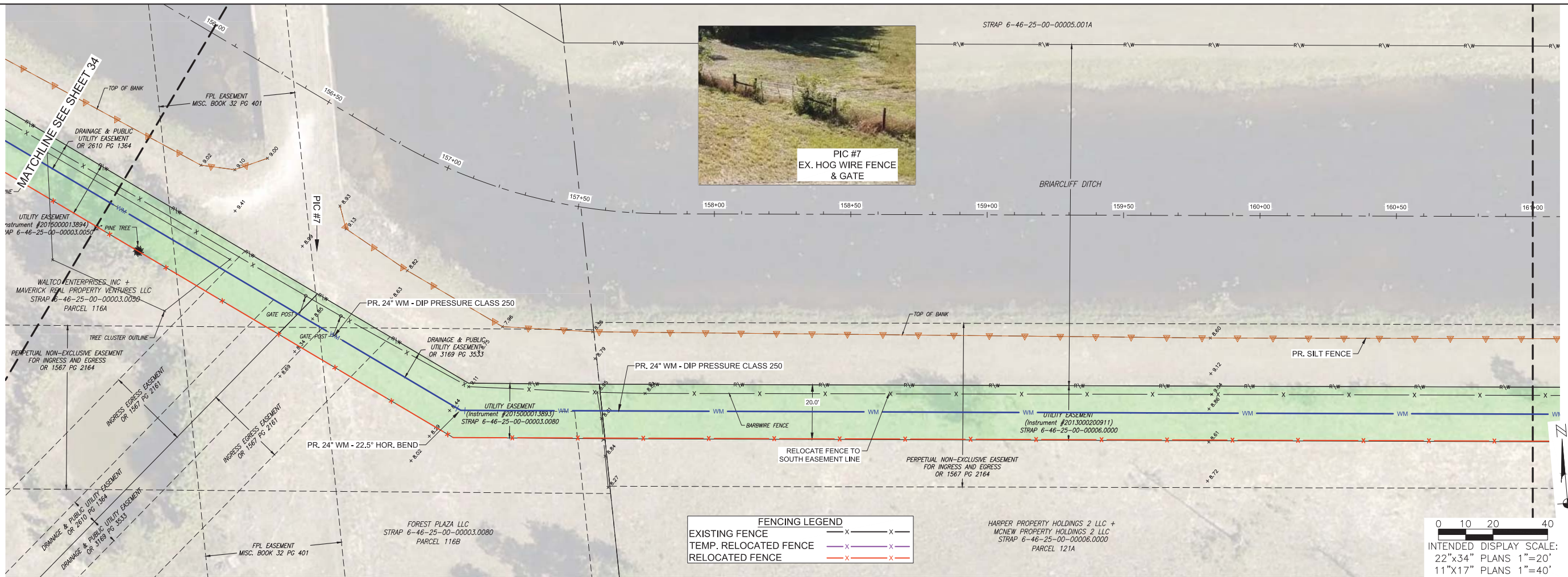
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

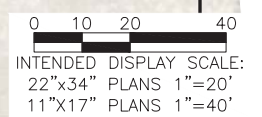
100% Construction Plans
Alignment E
Sta 156+00 to 161+00

SHEET NUMBER

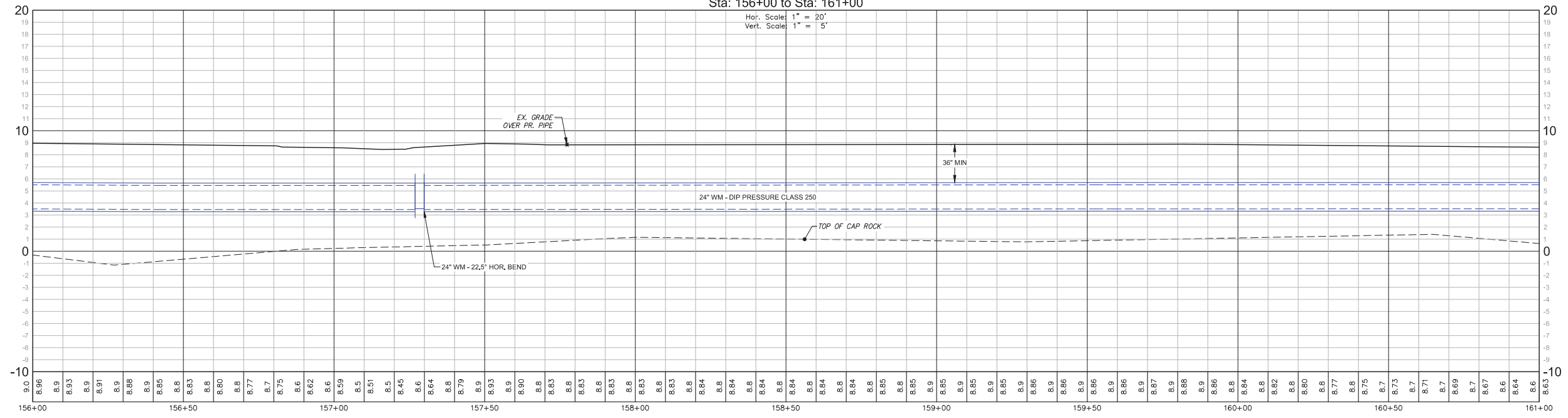


FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —



Profile View of Alignment E
Sta: 156+00 to Sta: 161+00



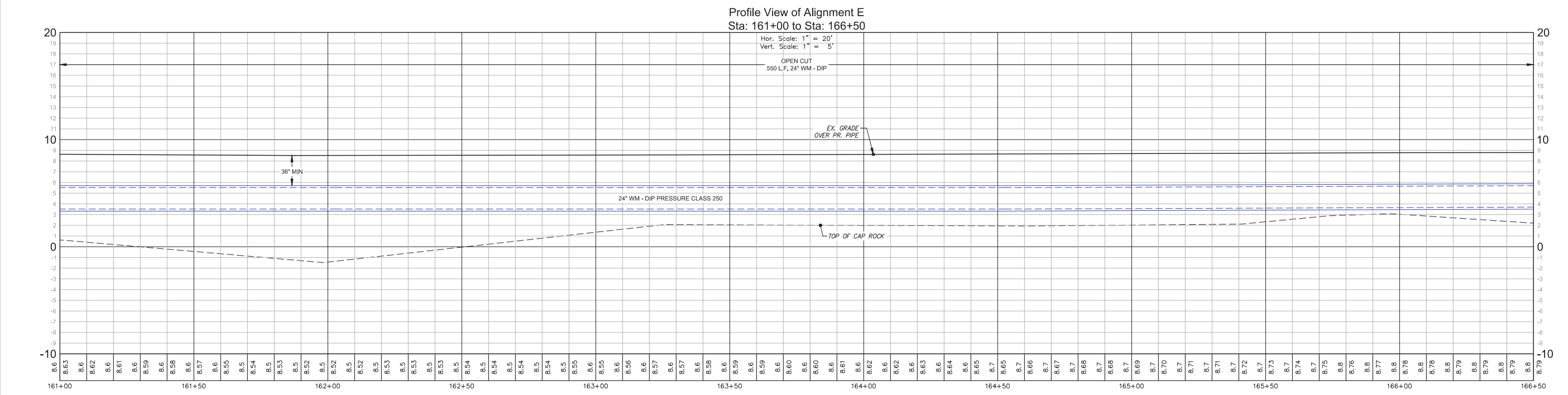
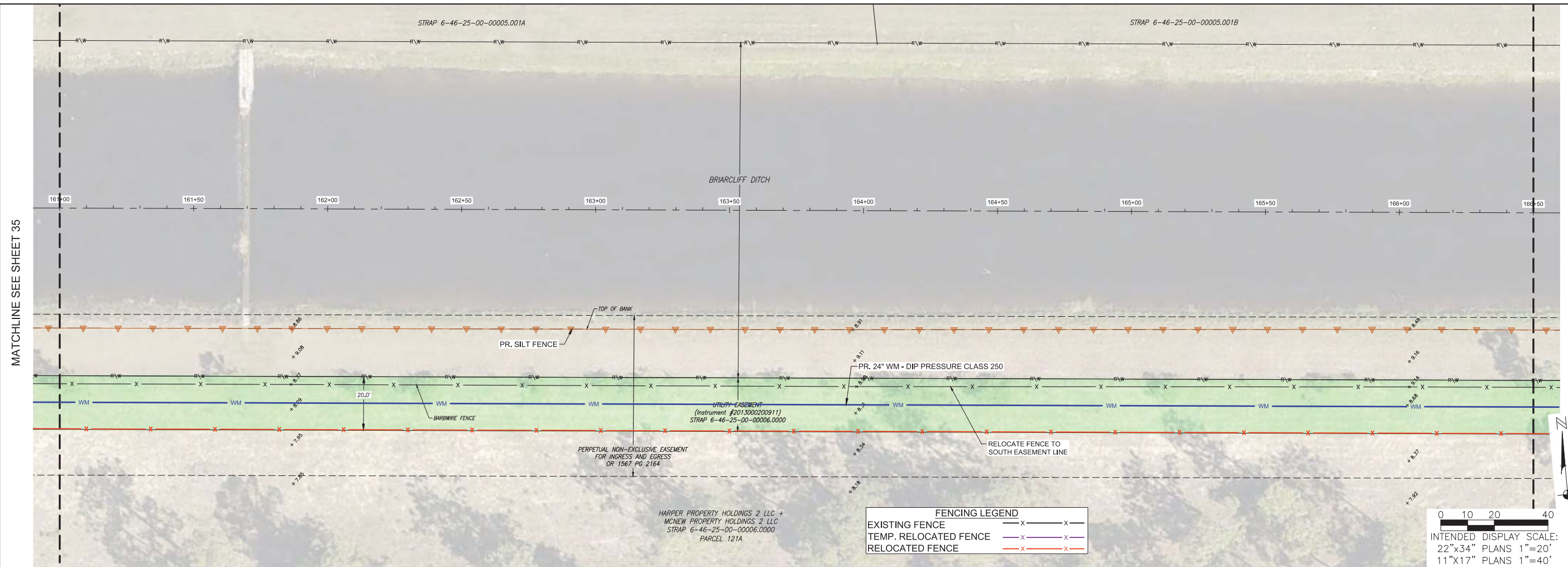
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment E
Sta 161+00 to 166+50

SHEET NUMBER

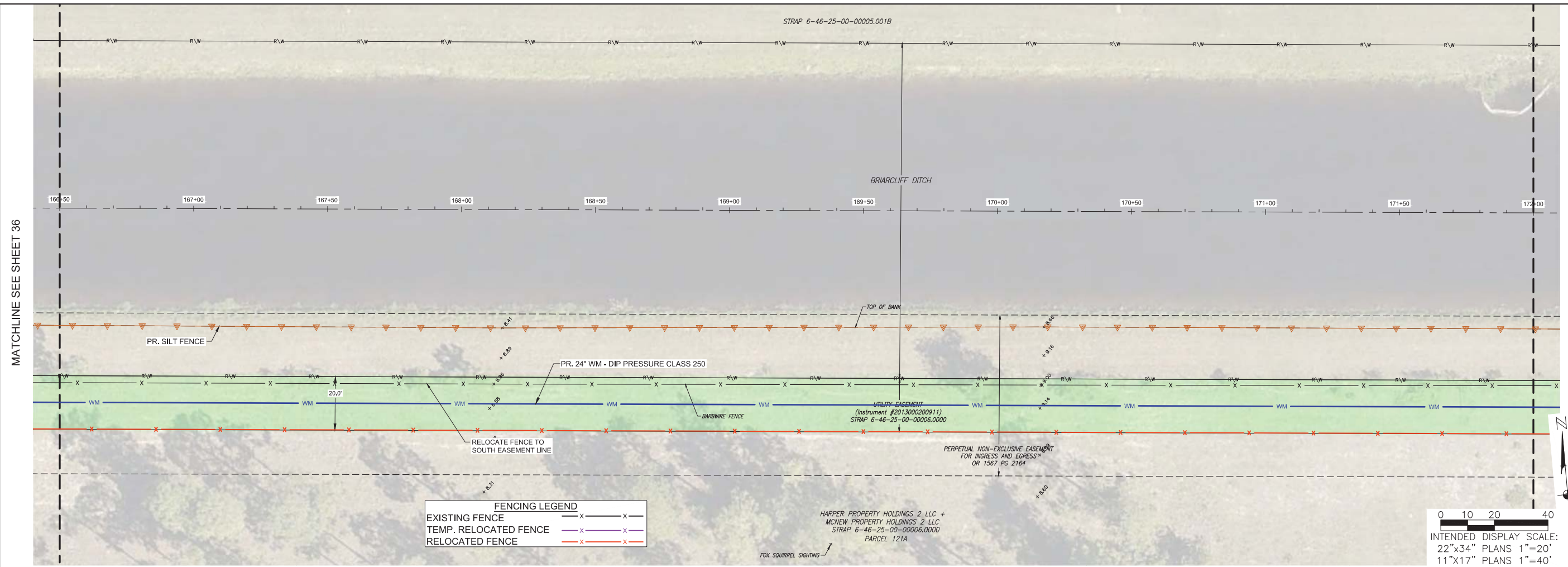


NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment E
Sta 166+50 to 172+00

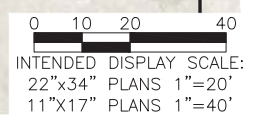
SHEET NUMBER



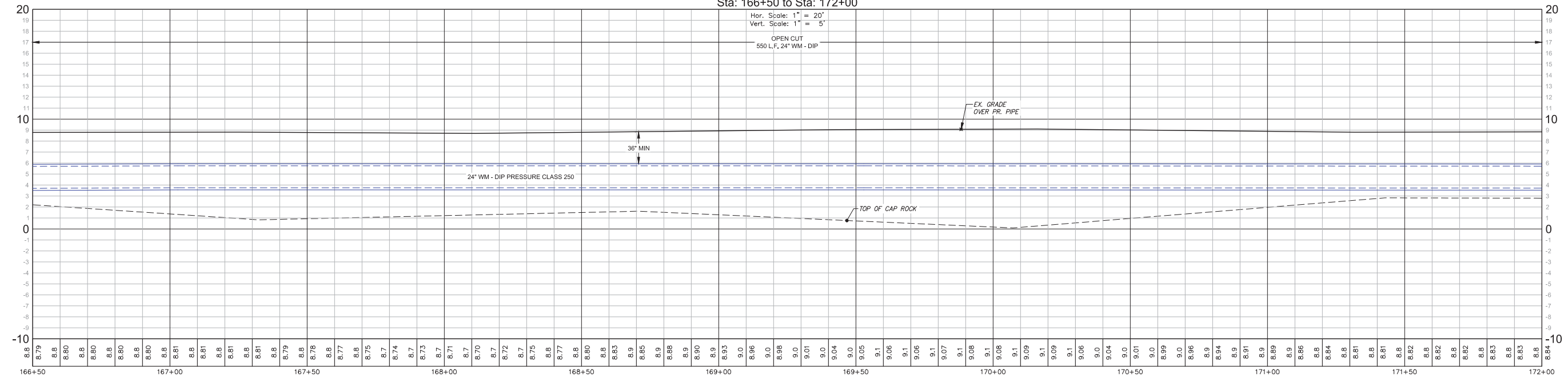
MATCHLINE SEE SHEET 36

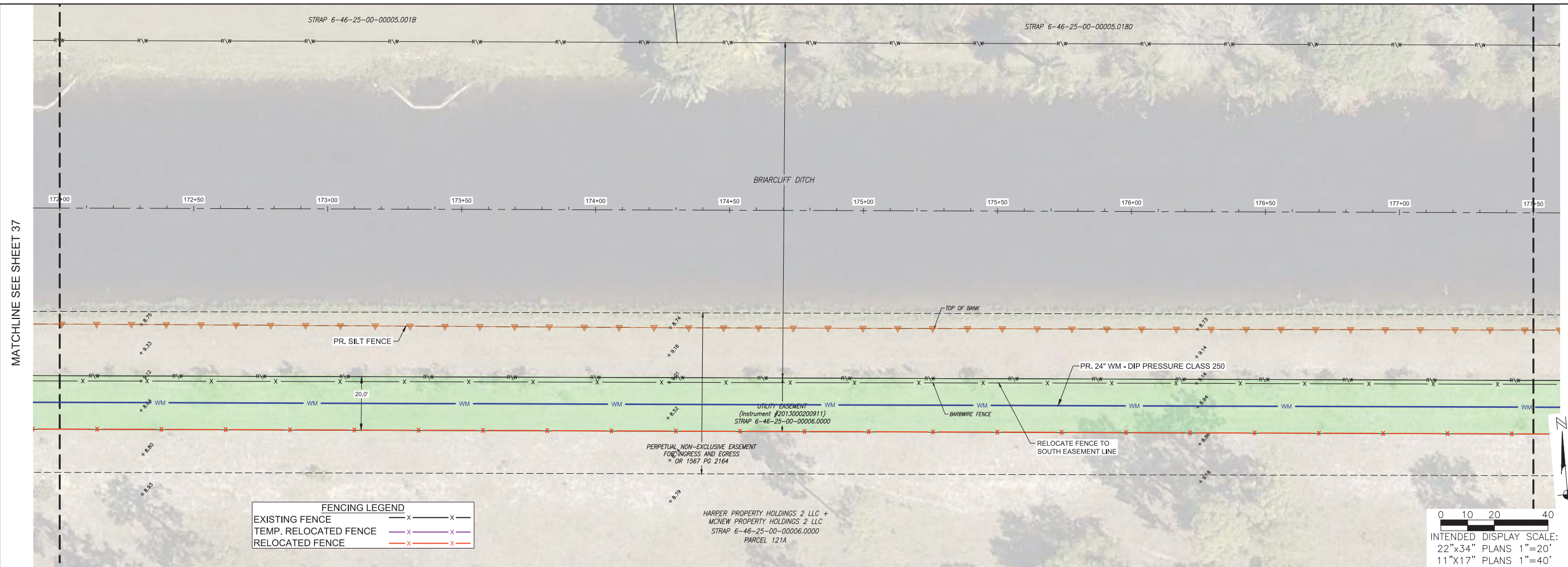
MATCHLINE SEE SHEET 38

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —



Profile View of Alignment E
Sta: 166+50 to Sta: 172+00





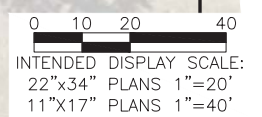
MATCHLINE SEE SHEET 37

MATCHLINE SEE SHEET 39

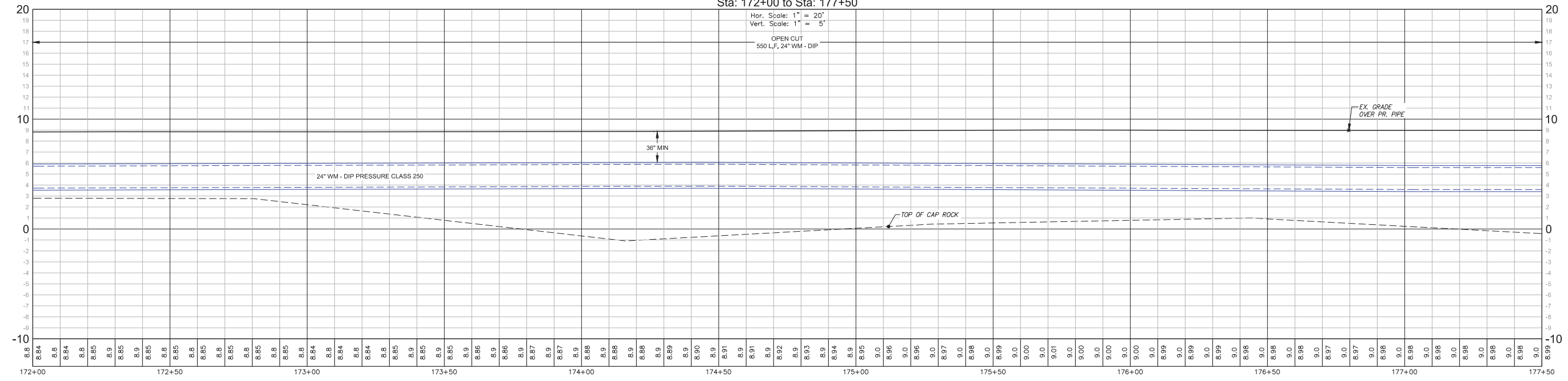
FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

HARPER PROPERTY HOLDINGS 2 LLC +
MCNEW PROPERTY HOLDINGS 2 LLC
STRAP 6-46-25-00-00006.0000
PARCEL 121A



Profile View of Alignment E
Sta: 172+00 to Sta: 177+50



REVISIONS

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment E
Sta 172+00 to
177+50

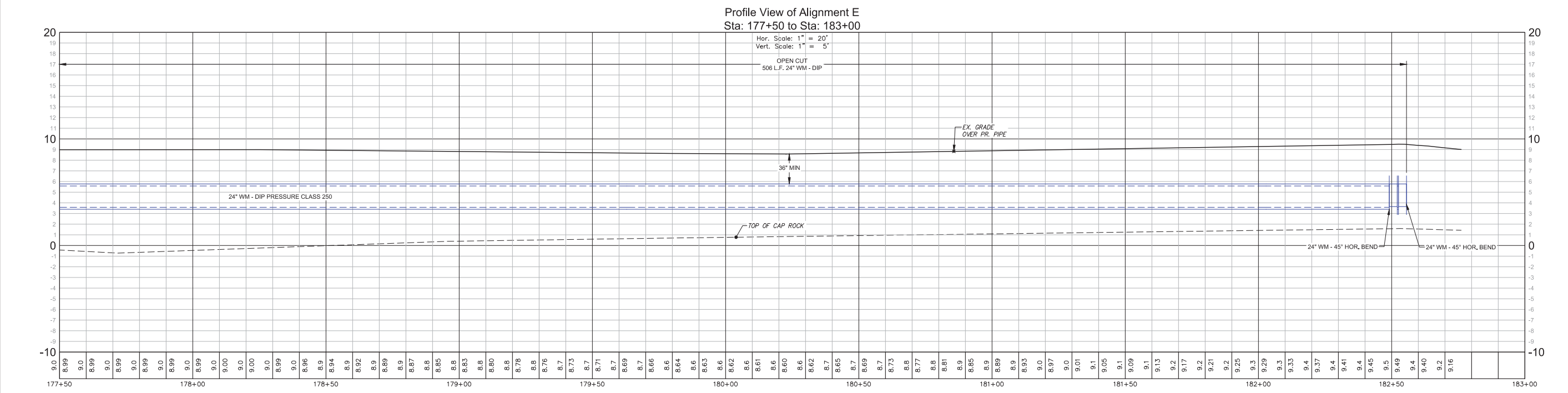
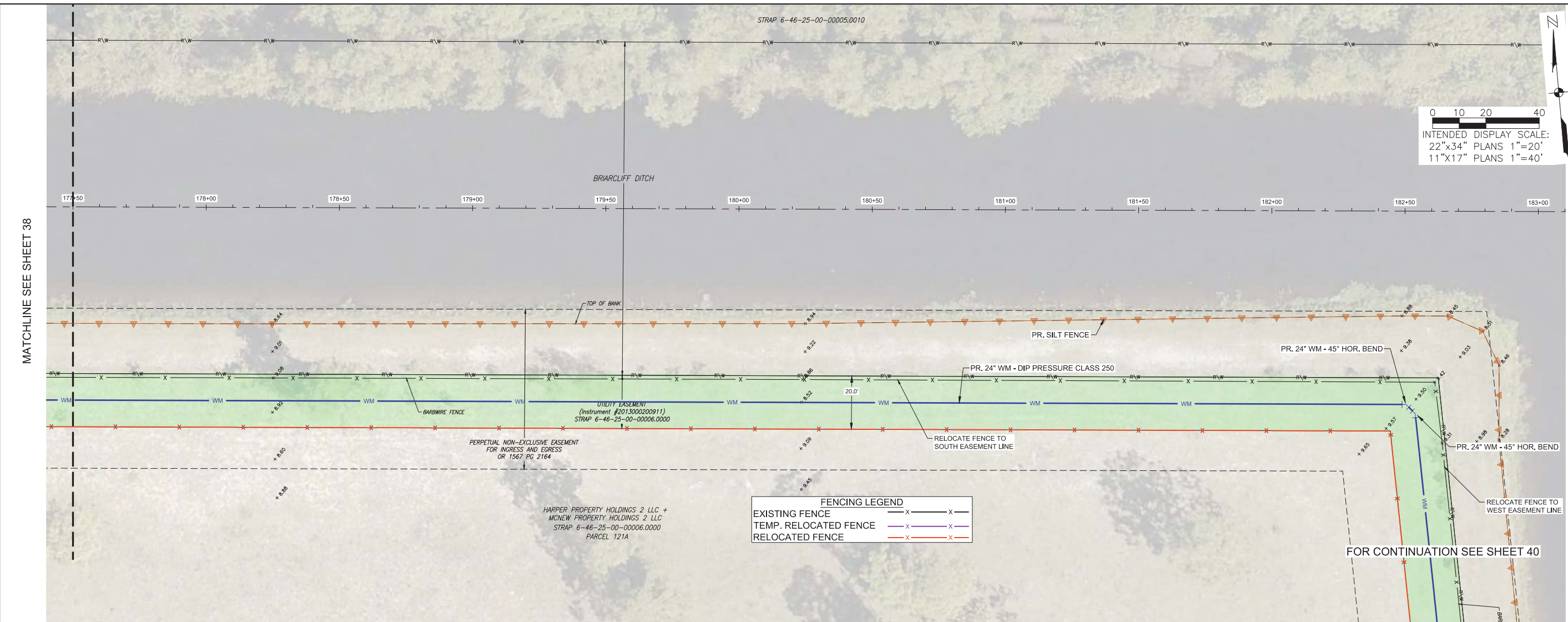
SHEET NUMBER

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment E
Sta 177+50 to 183+00

SHEET NUMBER



MATCHLINE SEE SHEET 41

RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

REVISIONS

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment F
Sta 182+50 to 186+50

SHEET NUMBER

40

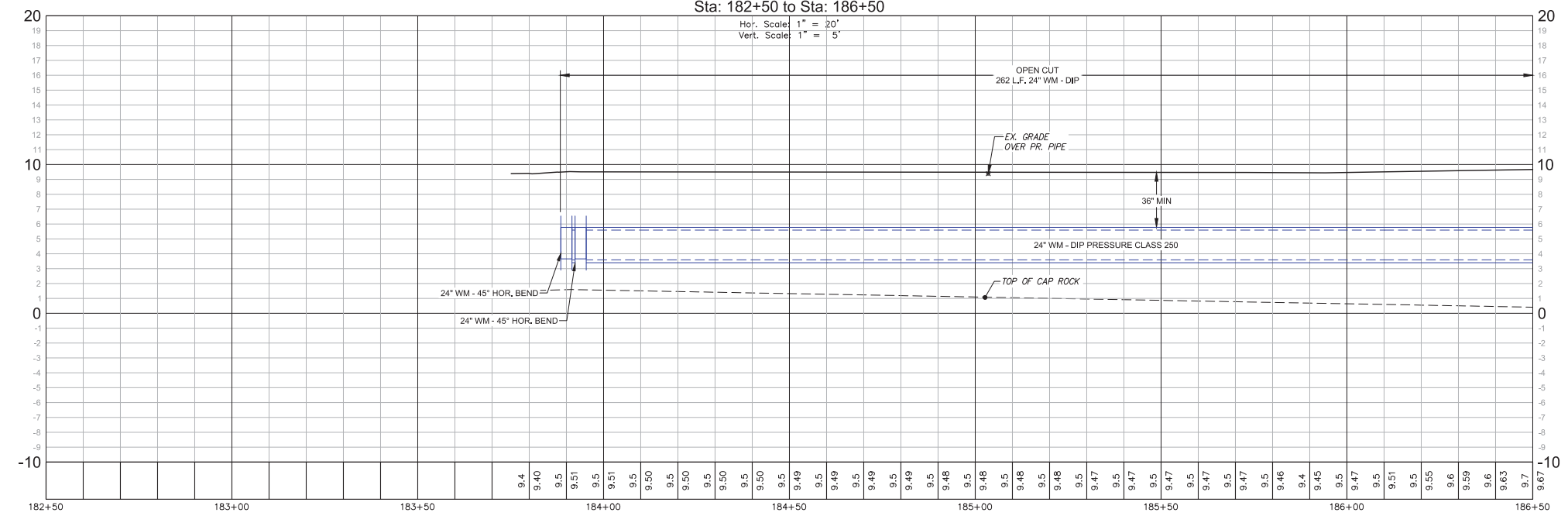


FOR CONTINUATION SEE SHEET 39

FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment F
Sta: 182+50 to Sta: 186+50



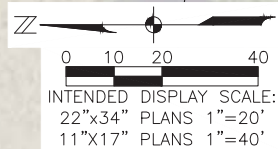
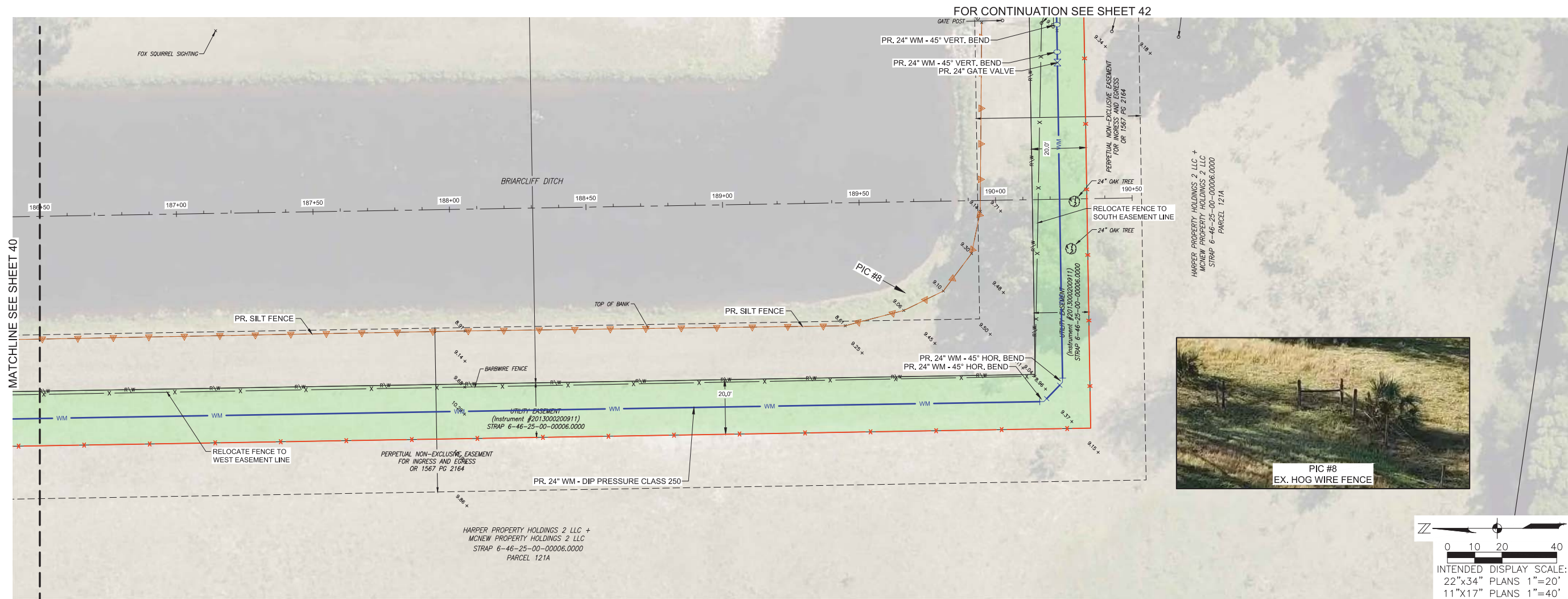
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

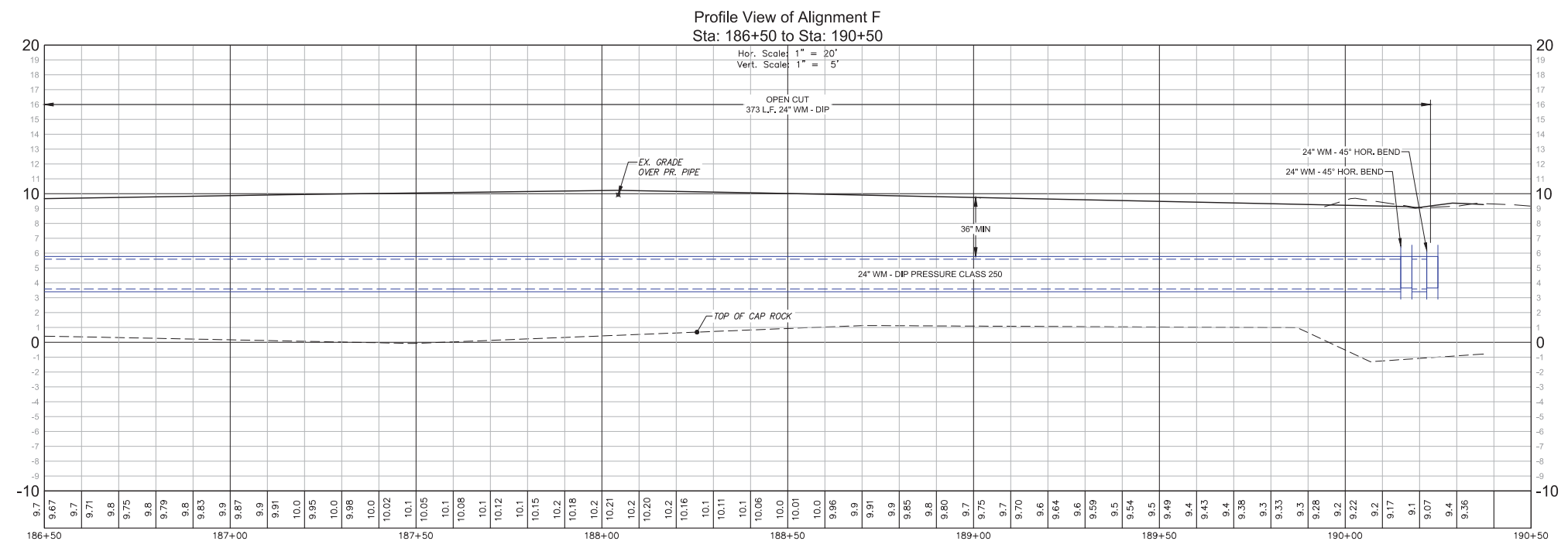
DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment F
Sta 186+50 to 190+50

SHEET NUMBER

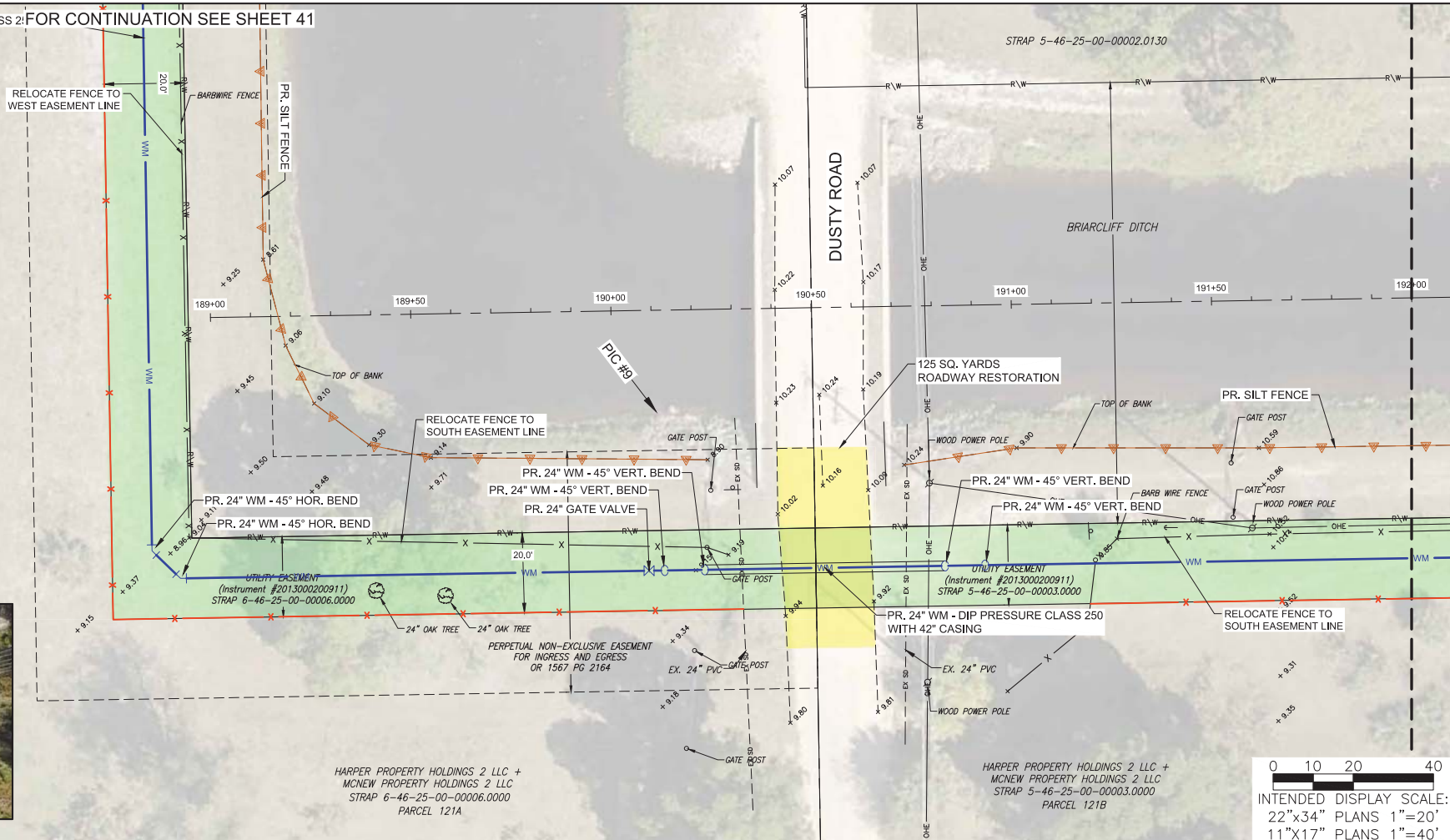


FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

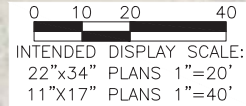
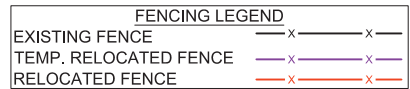
PR. 24" WM - DIP PRESSURE CLASS 250 FOR CONTINUATION SEE SHEET 41



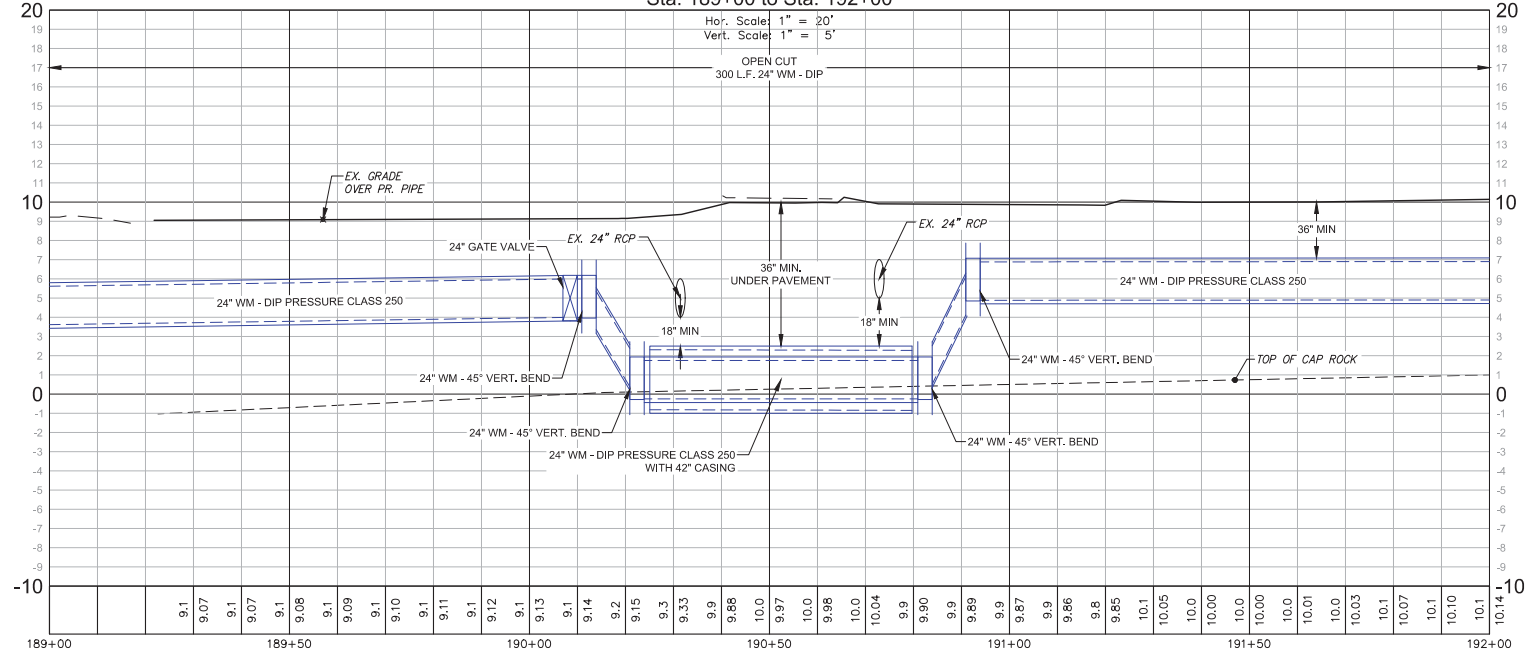
PIC #9
EX. HOG WIRE FENCE & GATE

HARPER PROPERTY HOLDINGS 2 LLC +
MCNEW PROPERTY HOLDINGS 2 LLC
STRAP 6-46-25-00-00006.0000
PARCEL 121A

HARPER PROPERTY HOLDINGS 2 LLC +
MCNEW PROPERTY HOLDINGS 2 LLC
STRAP 5-46-25-00-00003.0000
PARCEL 121B



Profile View of Alignment G
Sta: 189+00 to Sta: 192+00



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

DAVID BRICE TROUTEAUX, PE
 FL License No. 69783

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Alignment G
 Sta 189+00 to
 192+00

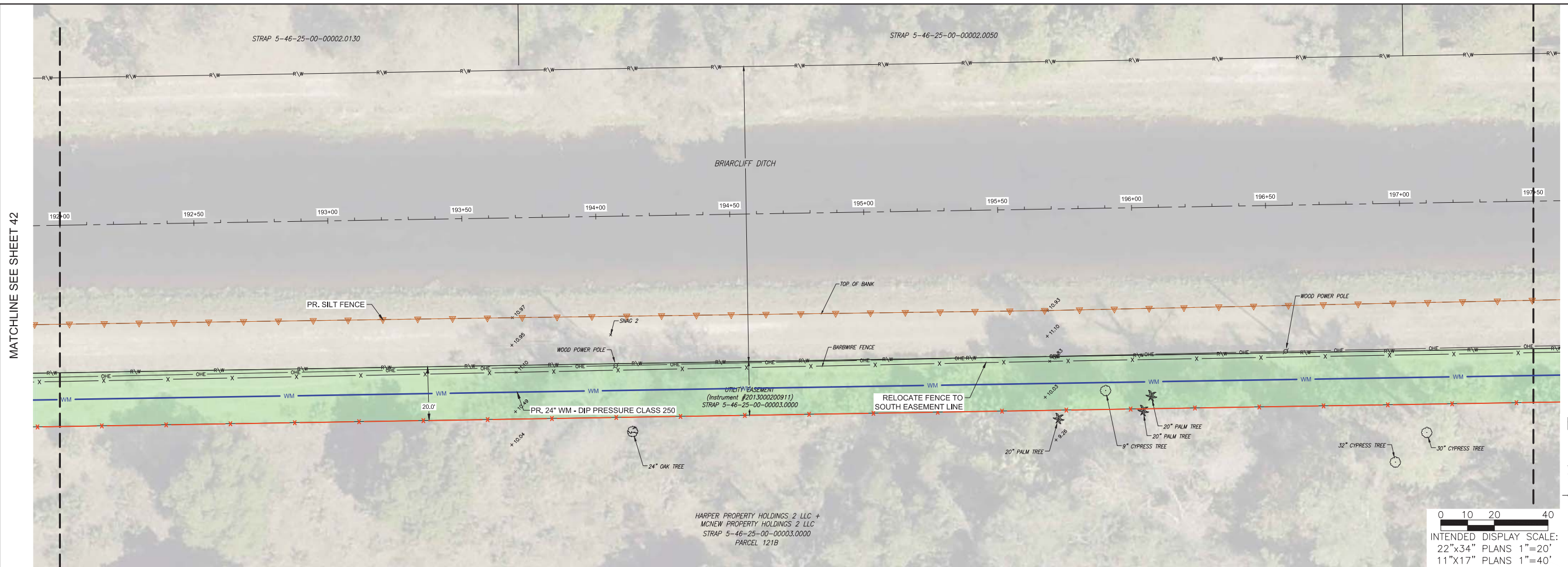
SHEET NUMBER

NO.	DESCRIPTION	DATE

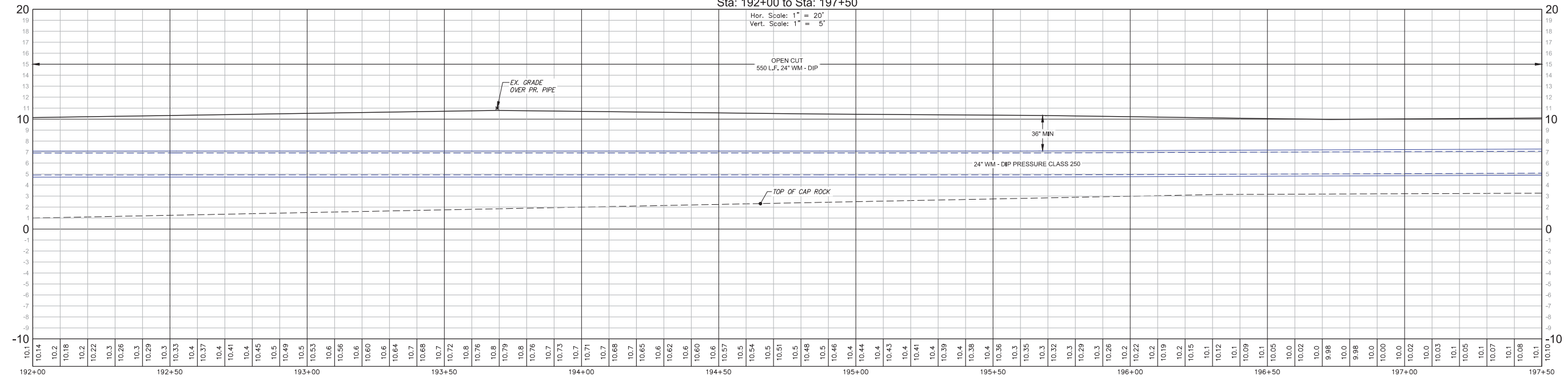
DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment G
Sta 192+00 to 197+50

SHEET NUMBER



Profile View of Alignment G
Sta: 192+00 to Sta: 197+50



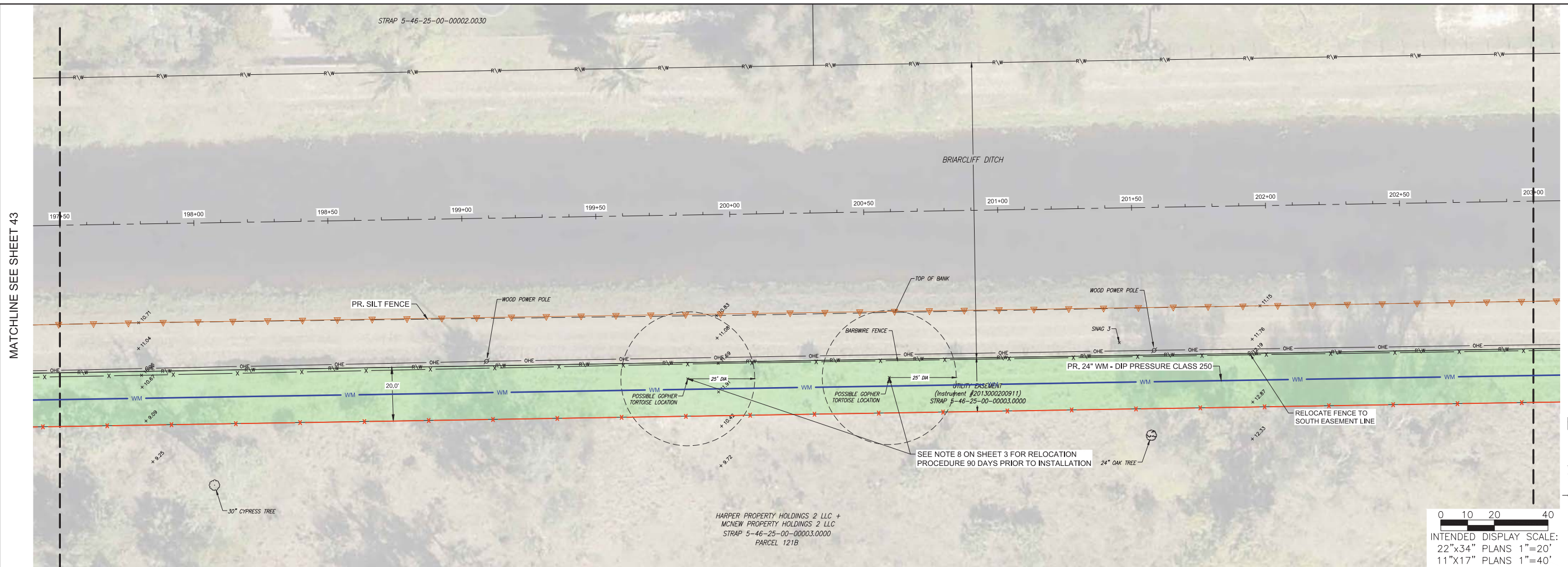
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment G
Sta 197+50 to 203+00

SHEET NUMBER

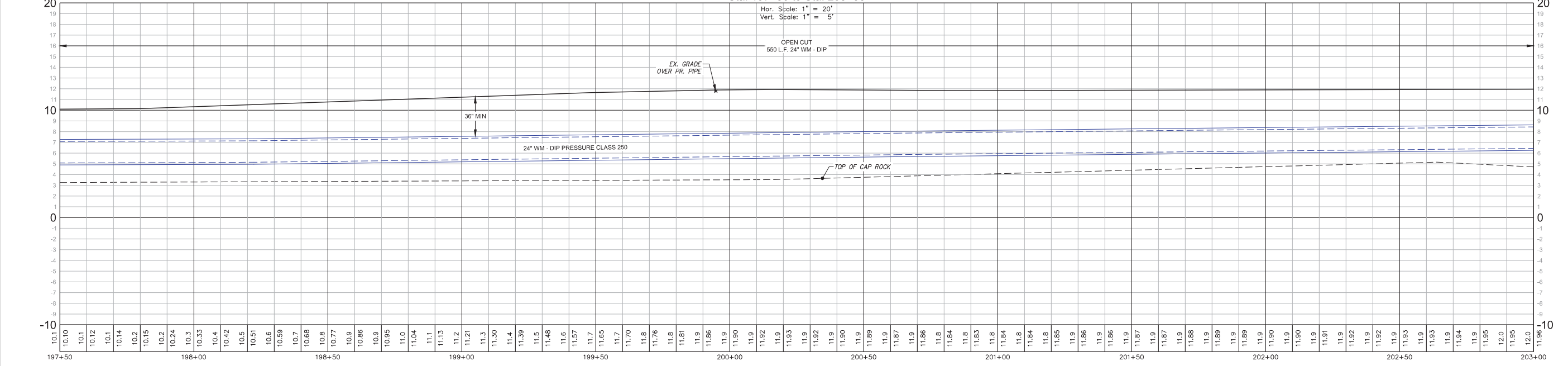


HARPER PROPERTY HOLDINGS 2 LLC +
MCNEW PROPERTY HOLDINGS 2 LLC
STRAP 5-46-25-00-00003.0000
PARCEL 121B

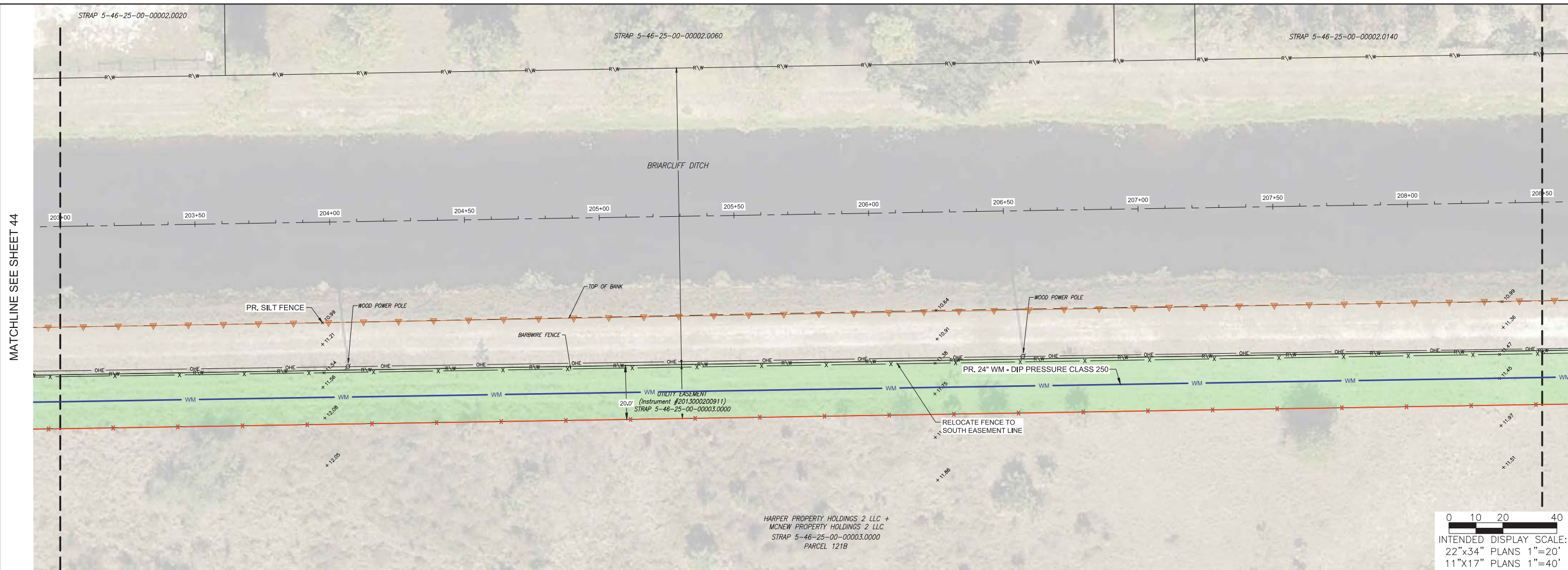
FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- - - x - - - x - - -
RELOCATED FENCE	— x — x —

Profile View of Alignment G
Sta: 197+50 to Sta: 203+00



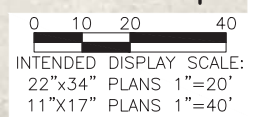
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).



MATCHLINE SEE SHEET 44

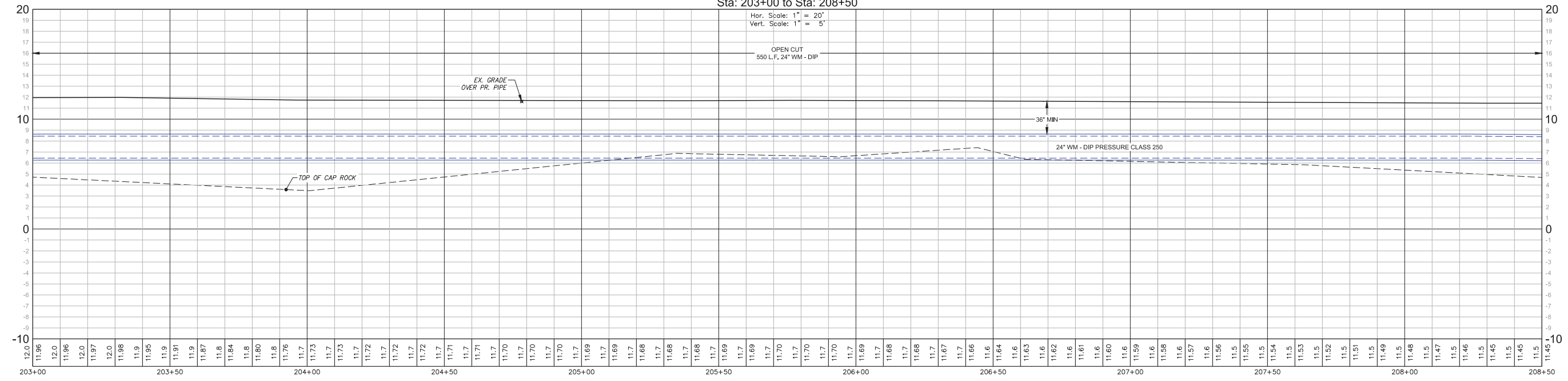
MATCHLINE SEE SHEET 46

HARPER PROPERTY HOLDINGS 2 LLC +
MCNEW PROPERTY HOLDINGS 2 LLC
STRAP 5-46-25-00-00003.0000
PARCEL 121B



FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	- - - x - - -
RELOCATED FENCE	— x — x —

Profile View of Alignment G
Sta: 203+00 to Sta: 208+50



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

JOHNSON ENGINEERING
JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET
P.O. BOX 1550
FORT MYERS, FLORIDA 33902-1550
PHONE: (239) 334-0046
FAX: (239) 334-3661
E.B. #642 & L.B. #642

DAVID BRICE TROUTEAUX, PE
FL License No. 69783



RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

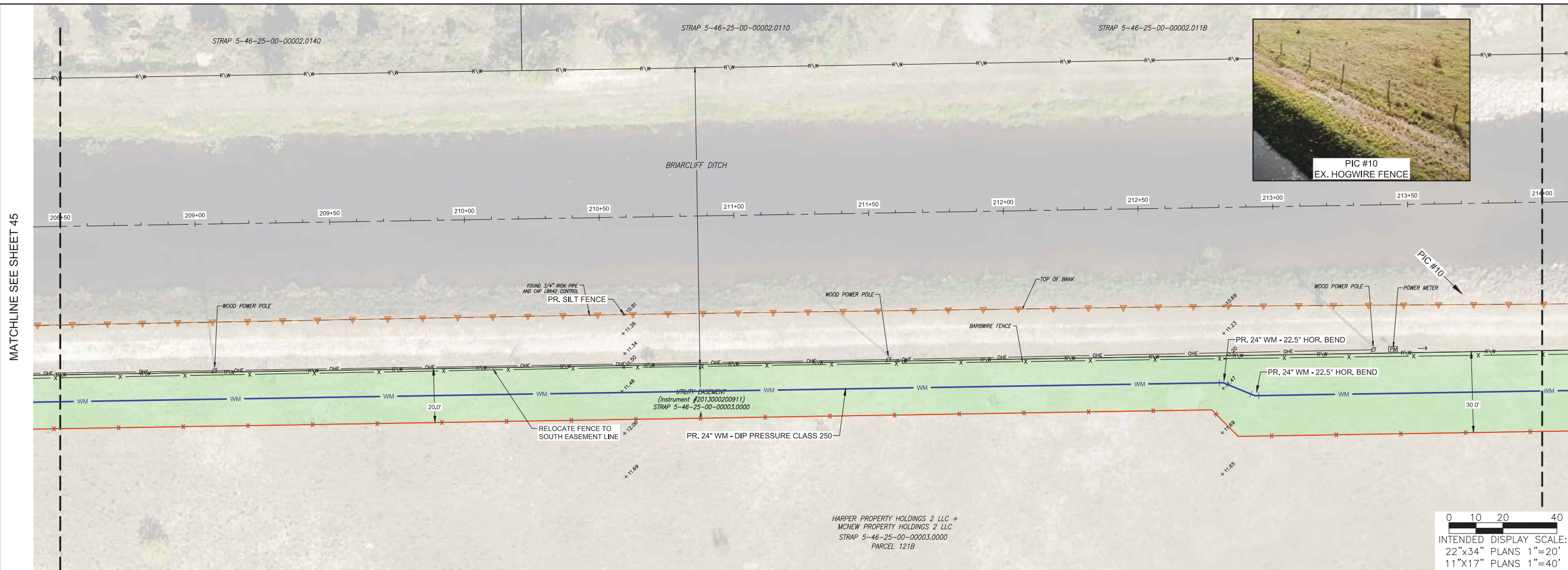
NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment G
Sta 203+00 to 208+50

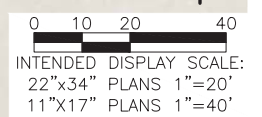
SHEET NUMBER

45



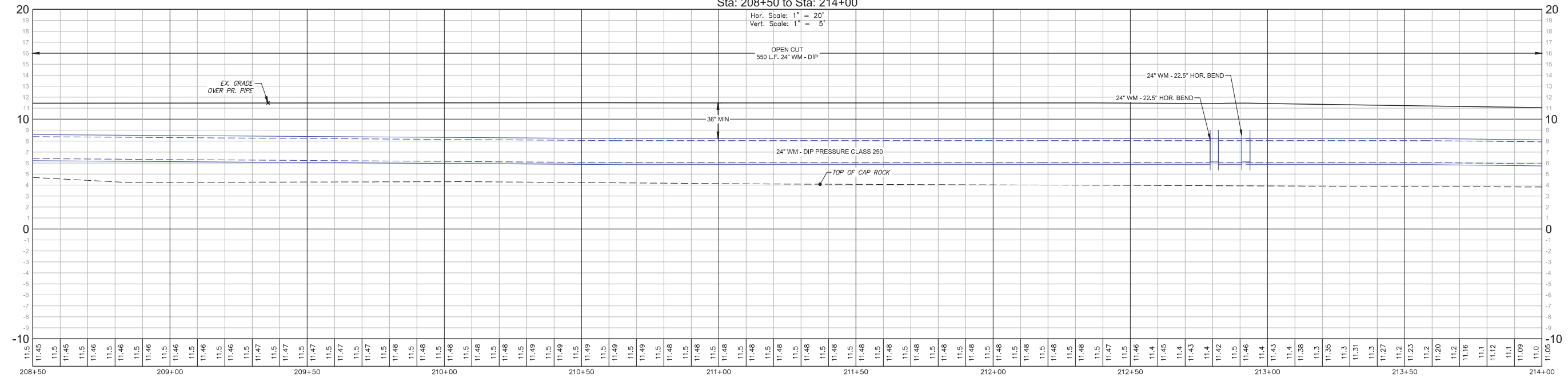
MATCHLINE SEE SHEET 45

MATCHLINE SEE SHEET 47



FENCING LEGEND	
EXISTING FENCE	—x—x—
TEMP. RELOCATED FENCE	—x—x—
RELOCATED FENCE	—x—x—

Profile View of Alignment G
Sta: 208+50 to Sta: 214+00



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FL License No. 69783



RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	DESCRIPTION	DATE

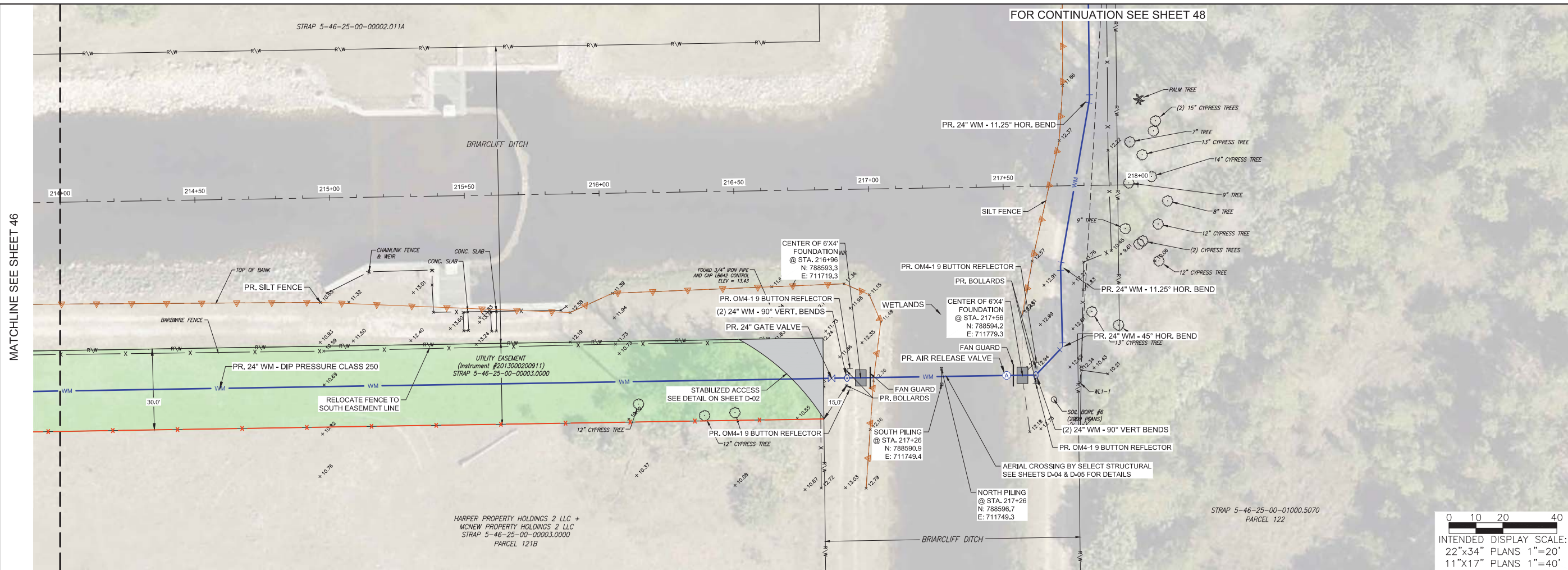
DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment G
Sta 208+50 to 214+00

SHEET NUMBER

46

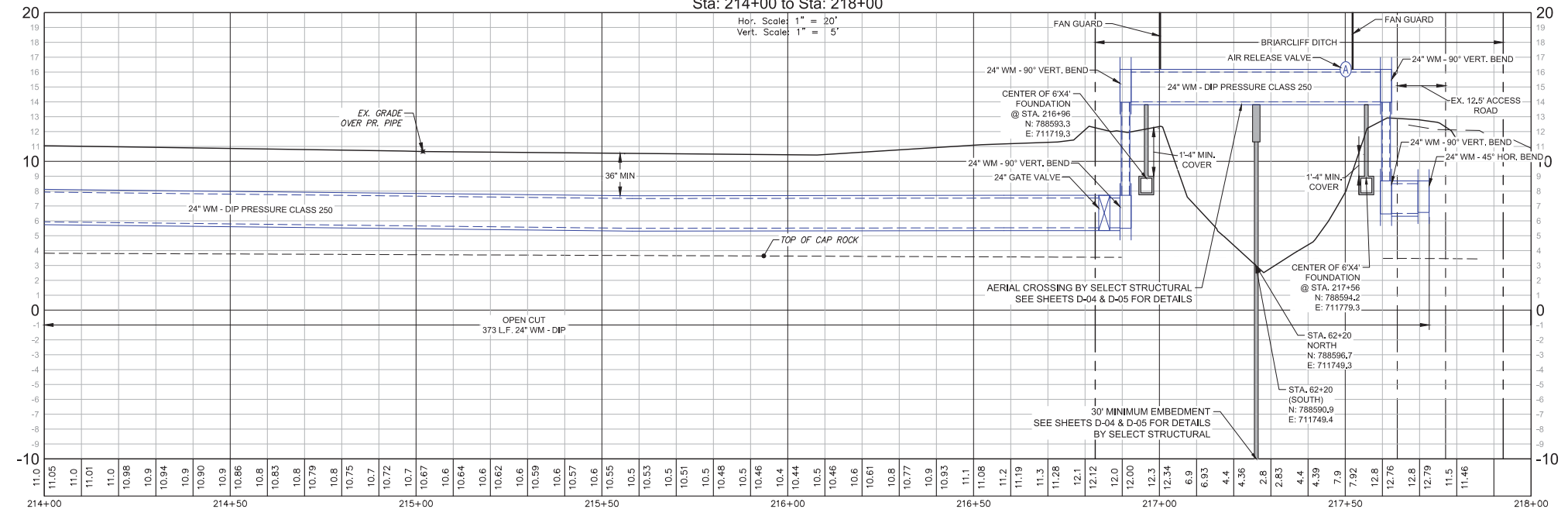
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment G
Sta: 214+00 to Sta: 218+00



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

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FL License No. 69783



RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

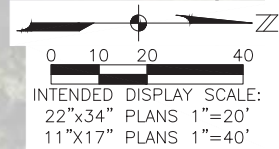
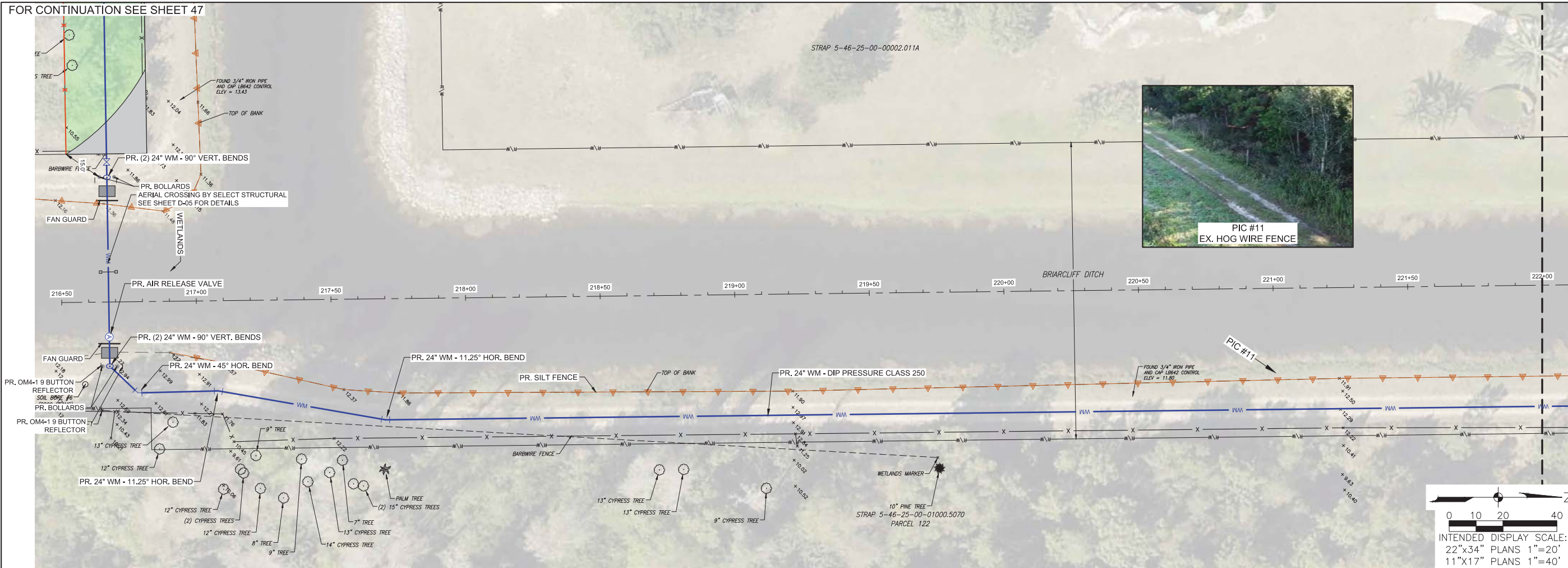
NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment G
Sta 214+00 to 218+00

SHEET NUMBER

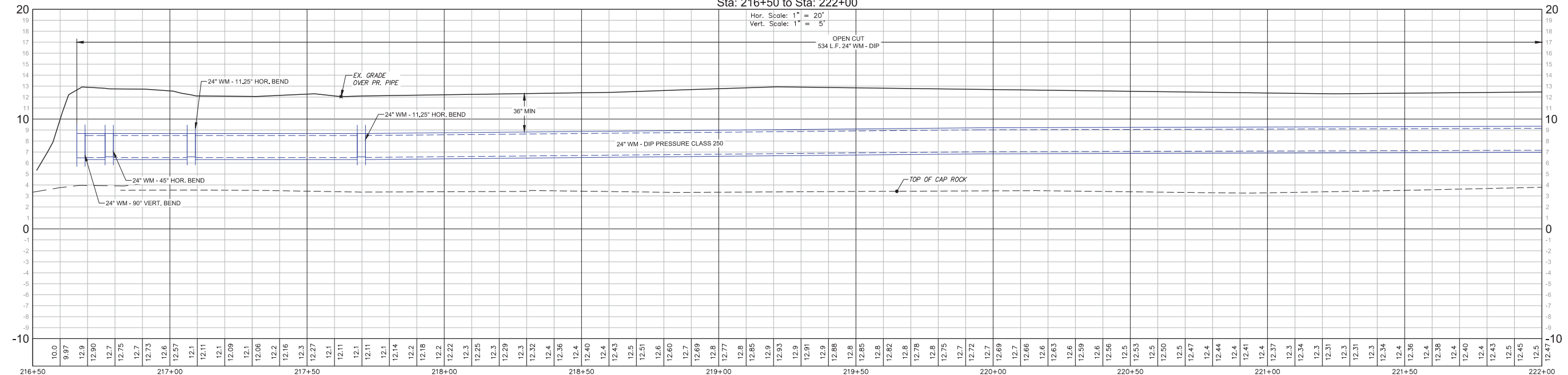
FOR CONTINUATION SEE SHEET 47



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment H
Sta: 216+50 to Sta: 222+00



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

JOHNSON ENGINEERING
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FAX: (239) 334-3661
E.B. #642 & L.B. #642

DAVID BRICE TROUTEAUX, PE
FL License No. 69783



MATCHLINE SEE SHEET 49

RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment H
Sta 216+50 to 222+00

SHEET NUMBER

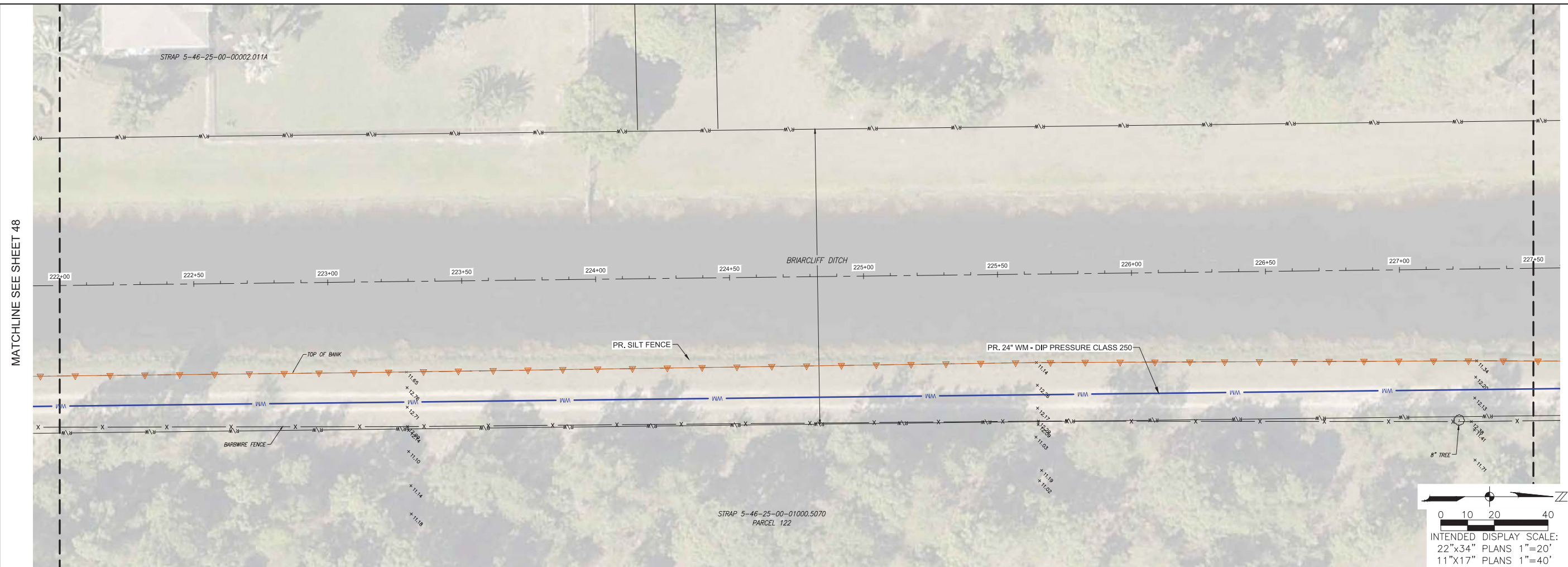
48

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment H
Sta 222+00 to 227+50

SHEET NUMBER



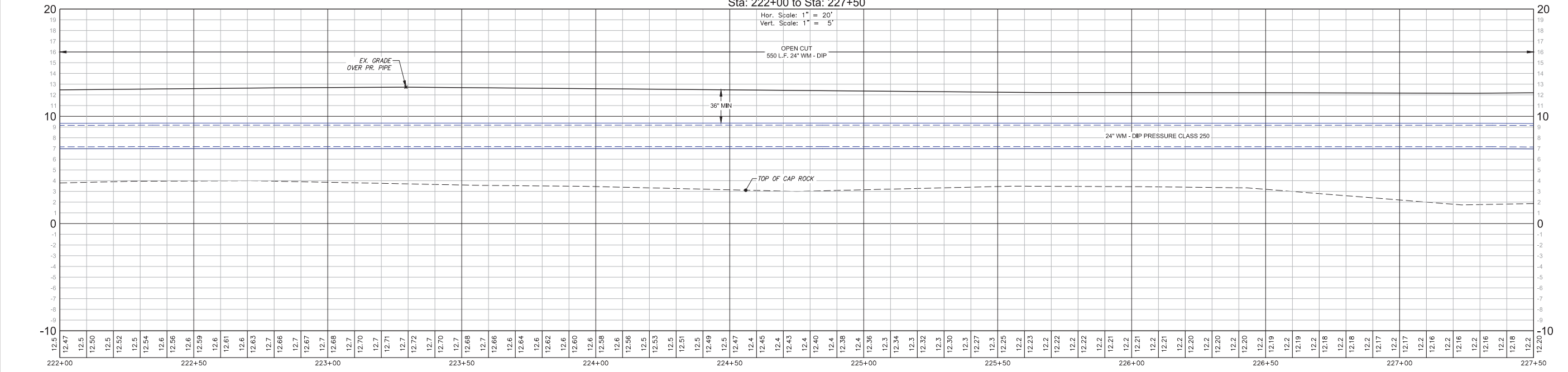
MATCHLINE SEE SHEET 48

MATCHLINE SEE SHEET 50

FENCING LEGEND

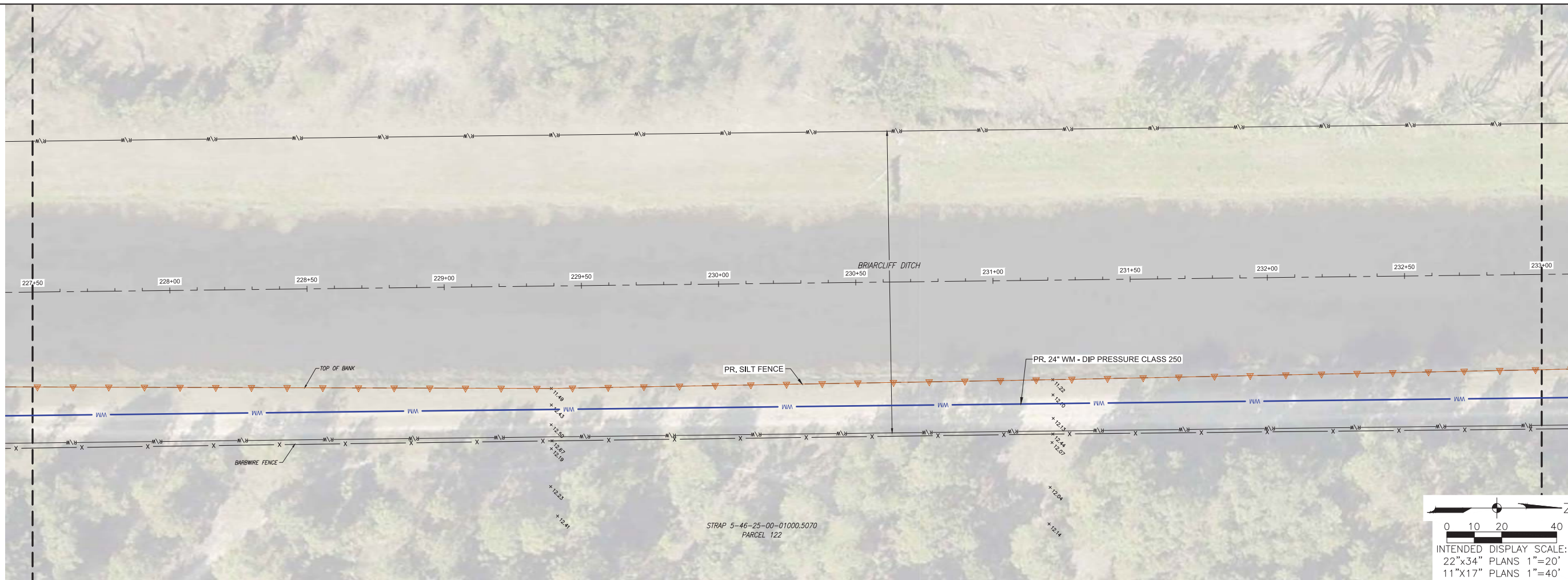
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment H
Sta: 222+00 to Sta: 227+50



MATCHLINE SEE SHEET 49

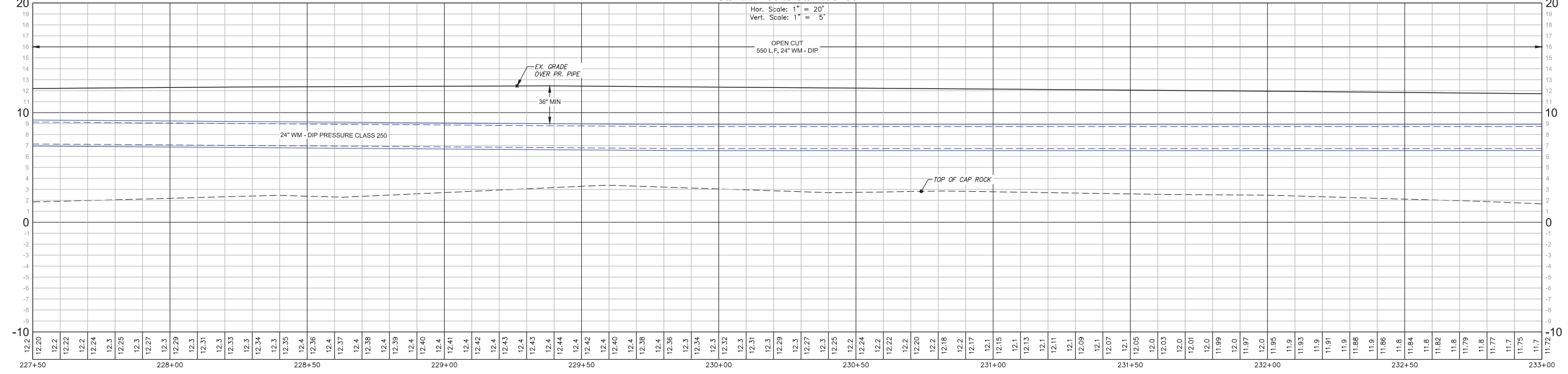
MATCHLINE SEE SHEET 51



FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment H
Sta: 227+50 to Sta: 233+00



REVISIONS

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment H
Sta 227+50 to
233+00

SHEET NUMBER

50

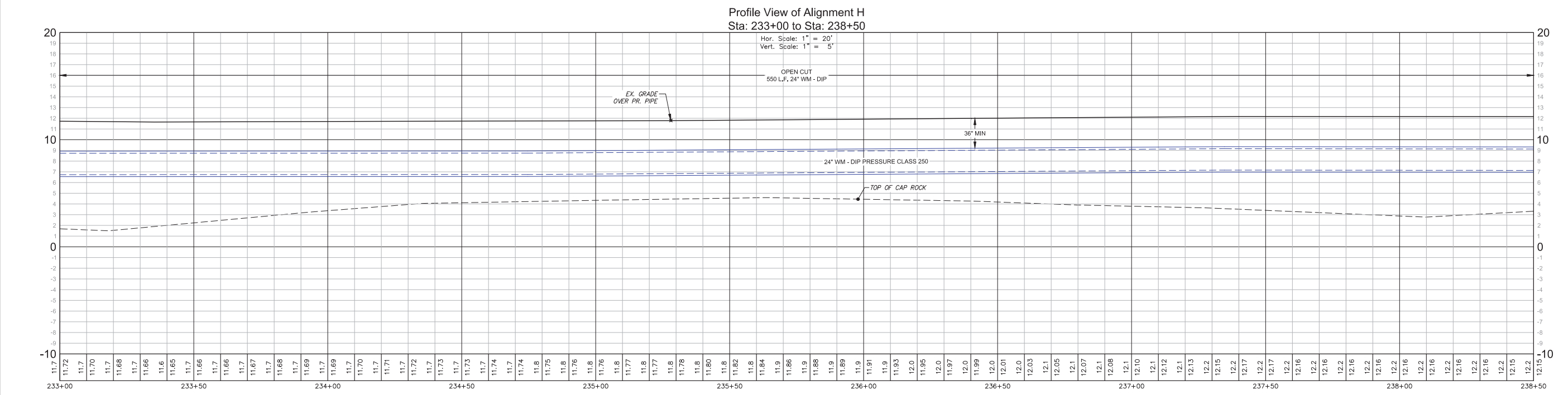
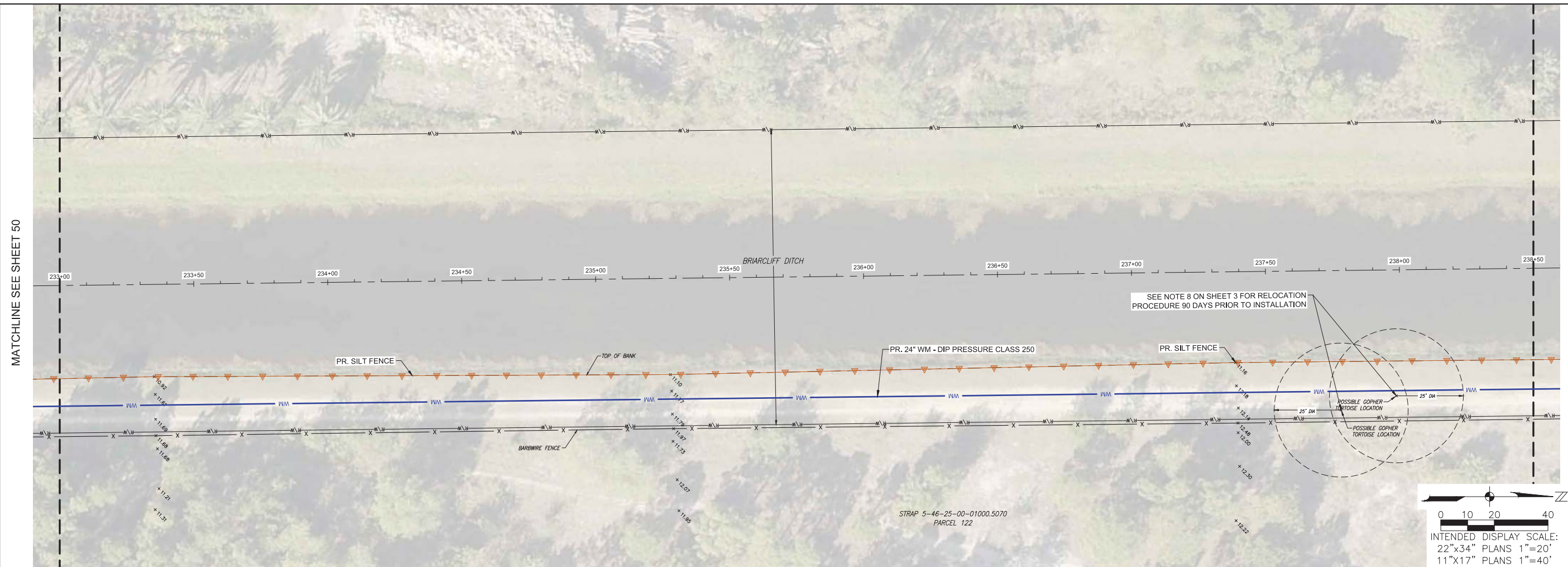
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment H
Sta 233+00 to 238+50

SHEET NUMBER



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment H
Sta 238+50 to 243+50

SHEET NUMBER



MATCHLINE SEE SHEET 51

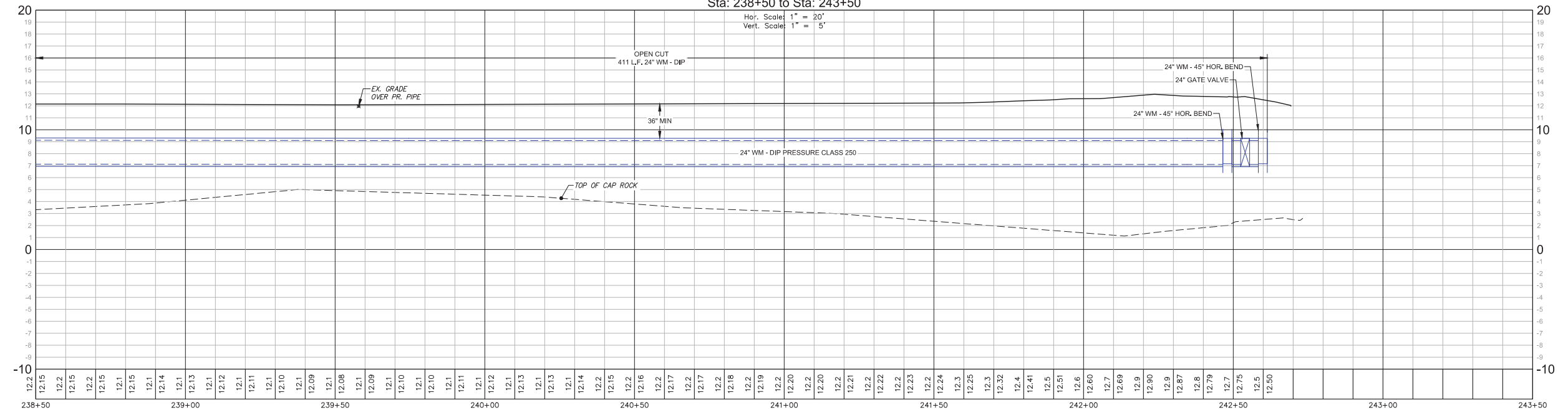
FOR CONTINUATION SEE SHEET 53

FENCING LEGEND

EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —

Profile View of Alignment H
Sta: 238+50 to Sta: 243+50

Hor. Scale: 1" = 20'
Vert. Scale: 1" = 5'



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

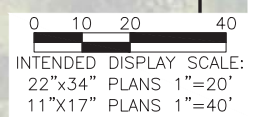
NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

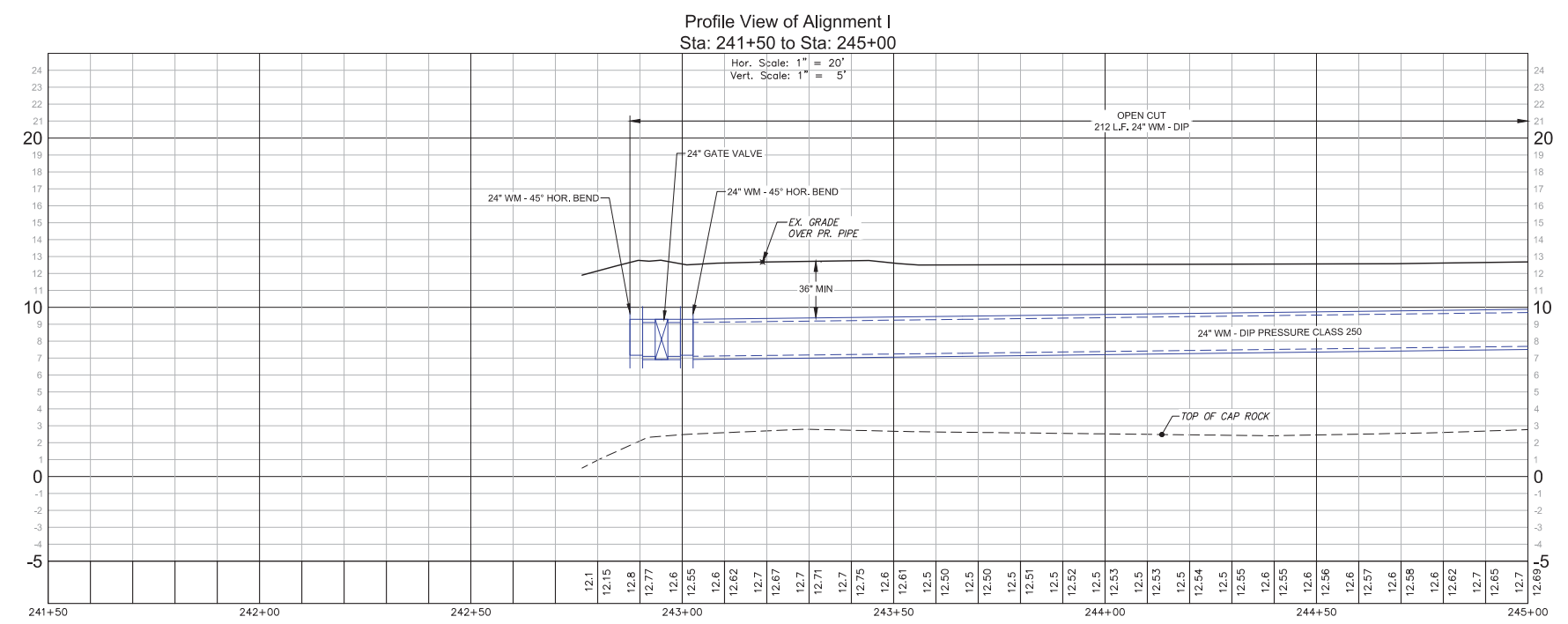
100% Construction Plans
Alignment I
Sta 241+50 to 245+00

SHEET NUMBER

53



FENCING LEGEND	
EXISTING FENCE	— x — x —
TEMP. RELOCATED FENCE	— x — x —
RELOCATED FENCE	— x — x —



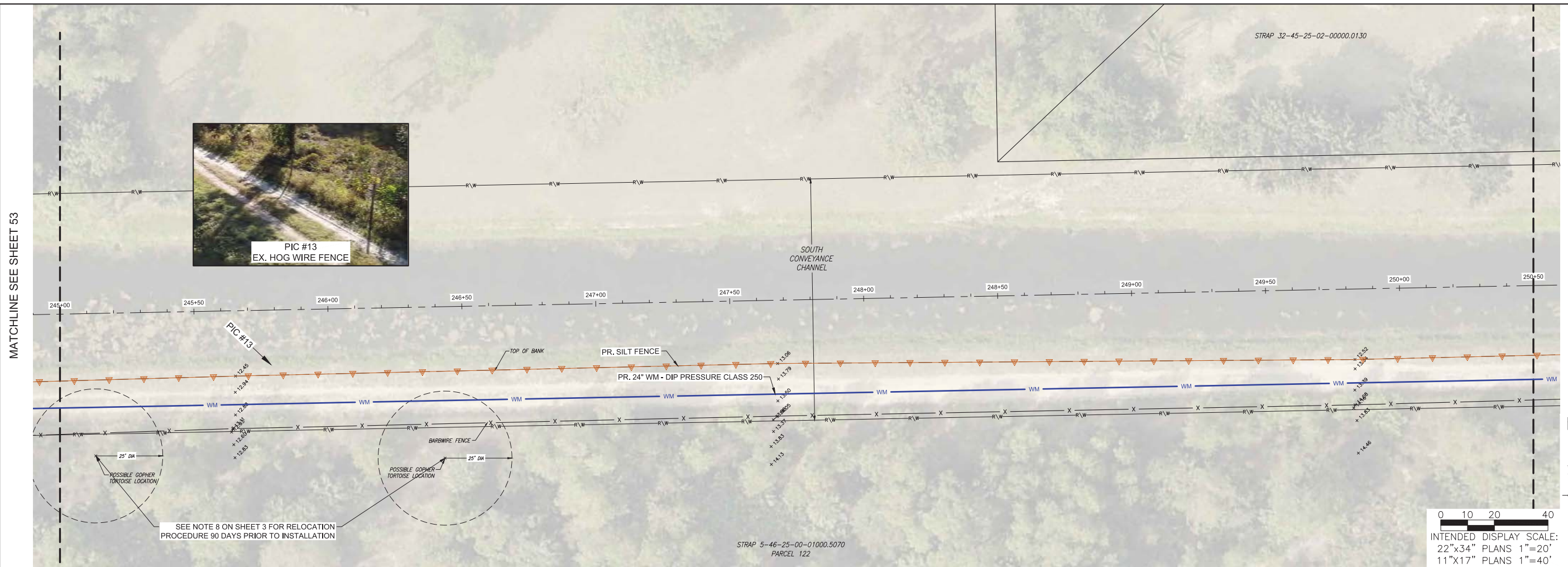
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Alignment I
Sta 245+00 to 250+50

SHEET NUMBER



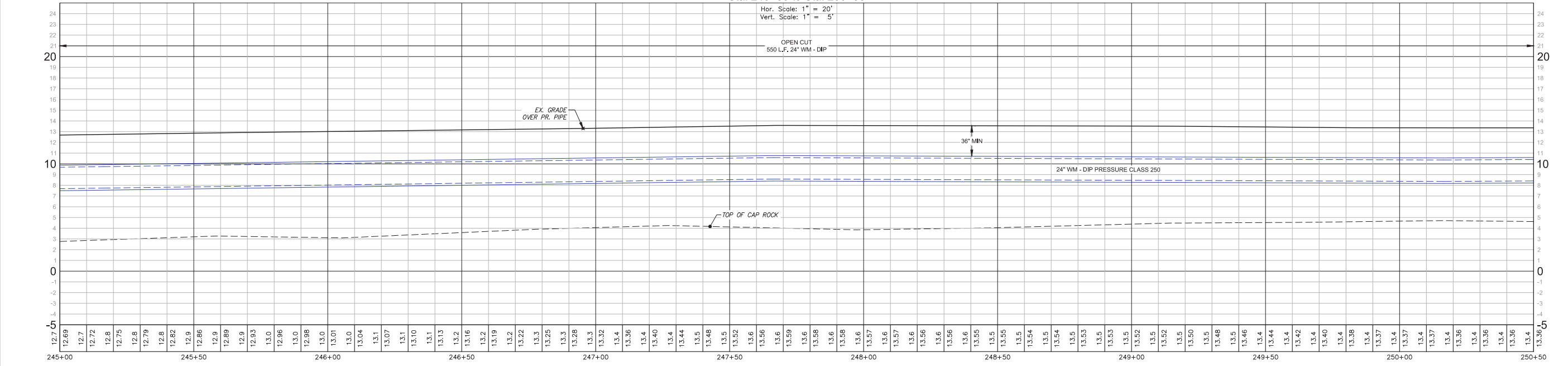
MATCHLINE SEE SHEET 53

MATCHLINE SEE SHEET 55

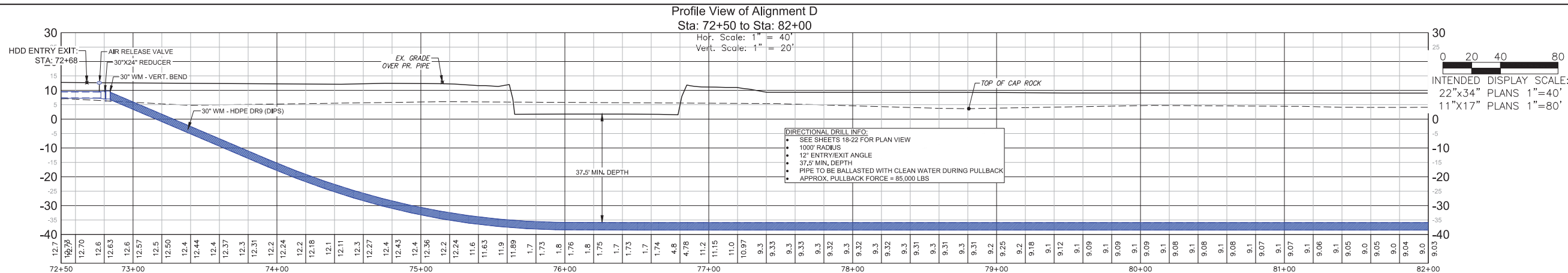
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TEMP. RELOCATED FENCE	- - - x - - -
RELOCATED FENCE	— x — x —

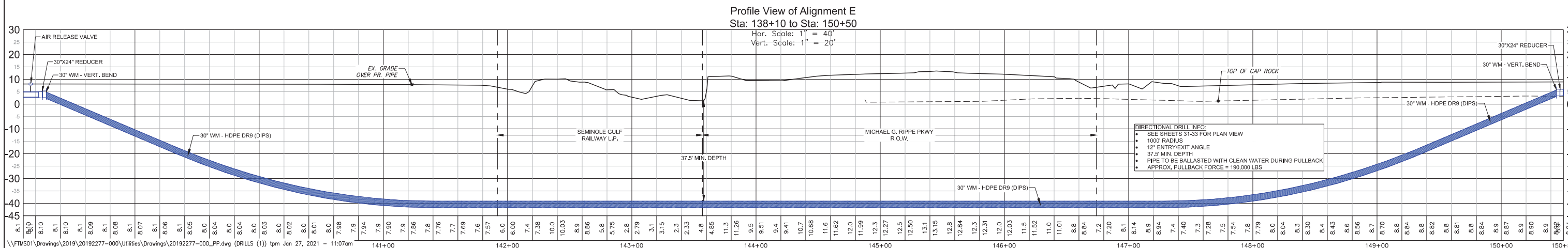
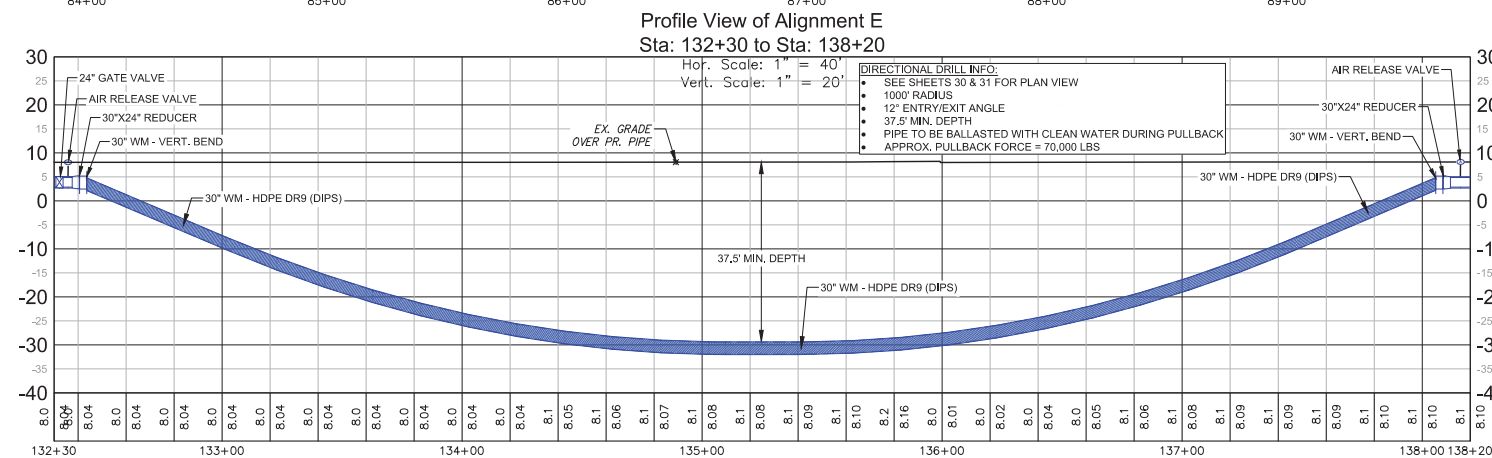
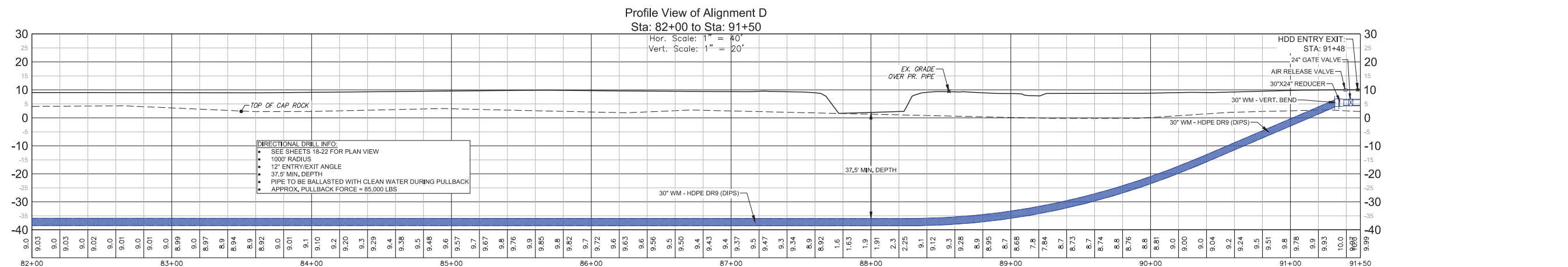
Profile View of Alignment I
Sta: 245+00 to Sta: 250+50



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).



0 20 40 80
INTENDED DISPLAY SCALE:
22"x34" PLANS 1"=40'
11"x17" PLANS 1"=80'



\\FTMS01\Drawings\2019\20192277-000\Utilities\Drawings\20192277-000_PP.dwg (DRILLS (1)) tpm Jan 27, 2021 - 11:07am

REVISIONS	



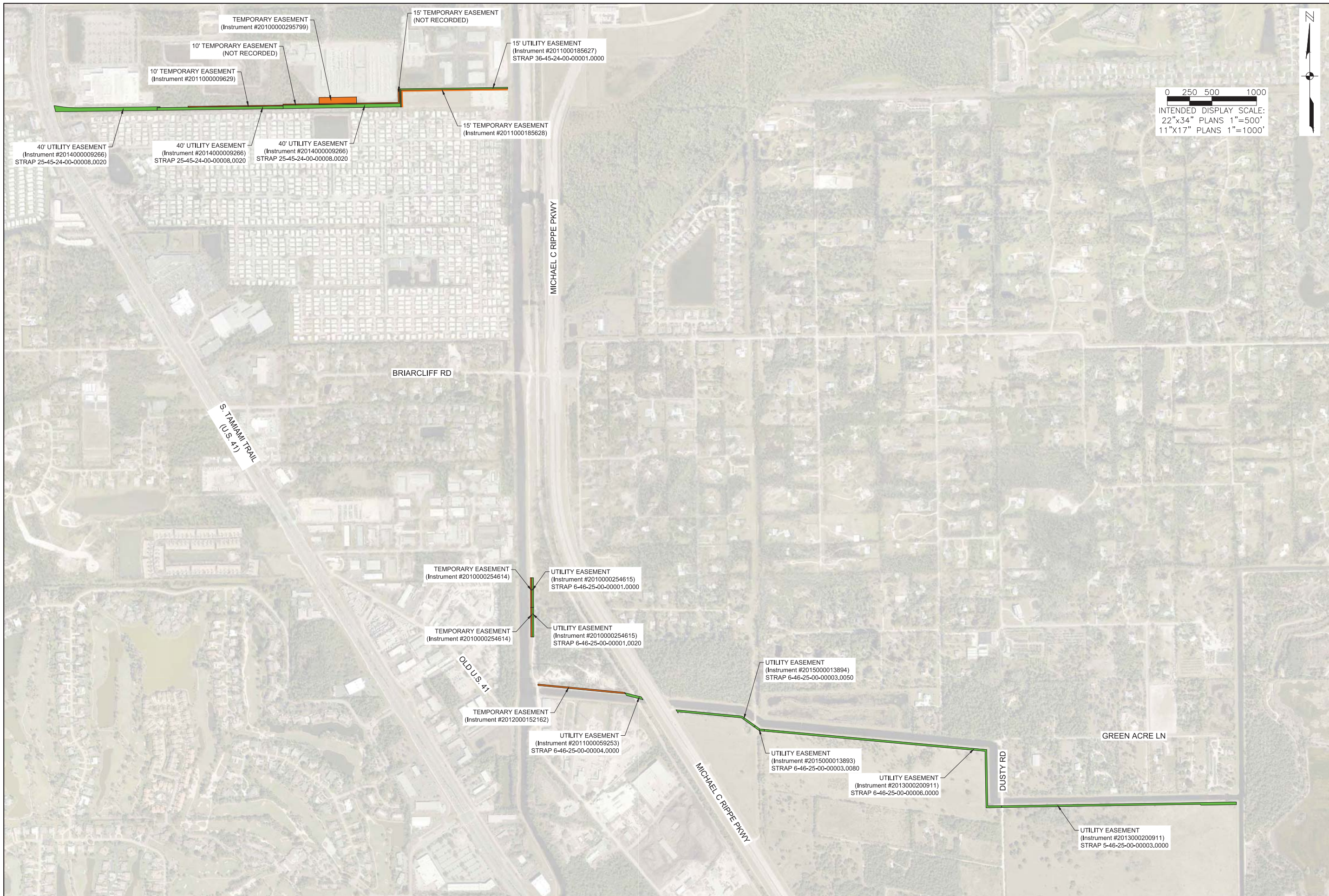
RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida



JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET
P.O. BOX 1550
FORT MYERS, FLORIDA 33902-1550
PHONE: (239) 334-0046
FAX: (239) 334-3661
E.B. #642 & L.B. #642

DAVID BRICE TROUETAUD, PE
FL License No. 69783

Directional Drill Profiles				
DATE	PROJECT NO.	FILE NO.	SCALE	SHEET
January 27, 2021	20192277-000	25-45-24	As Shown	57



0 250 500 1000
 INTENDED DISPLAY SCALE:
 22"x34" PLANS 1"=500'
 11"x17" PLANS 1"=1000'

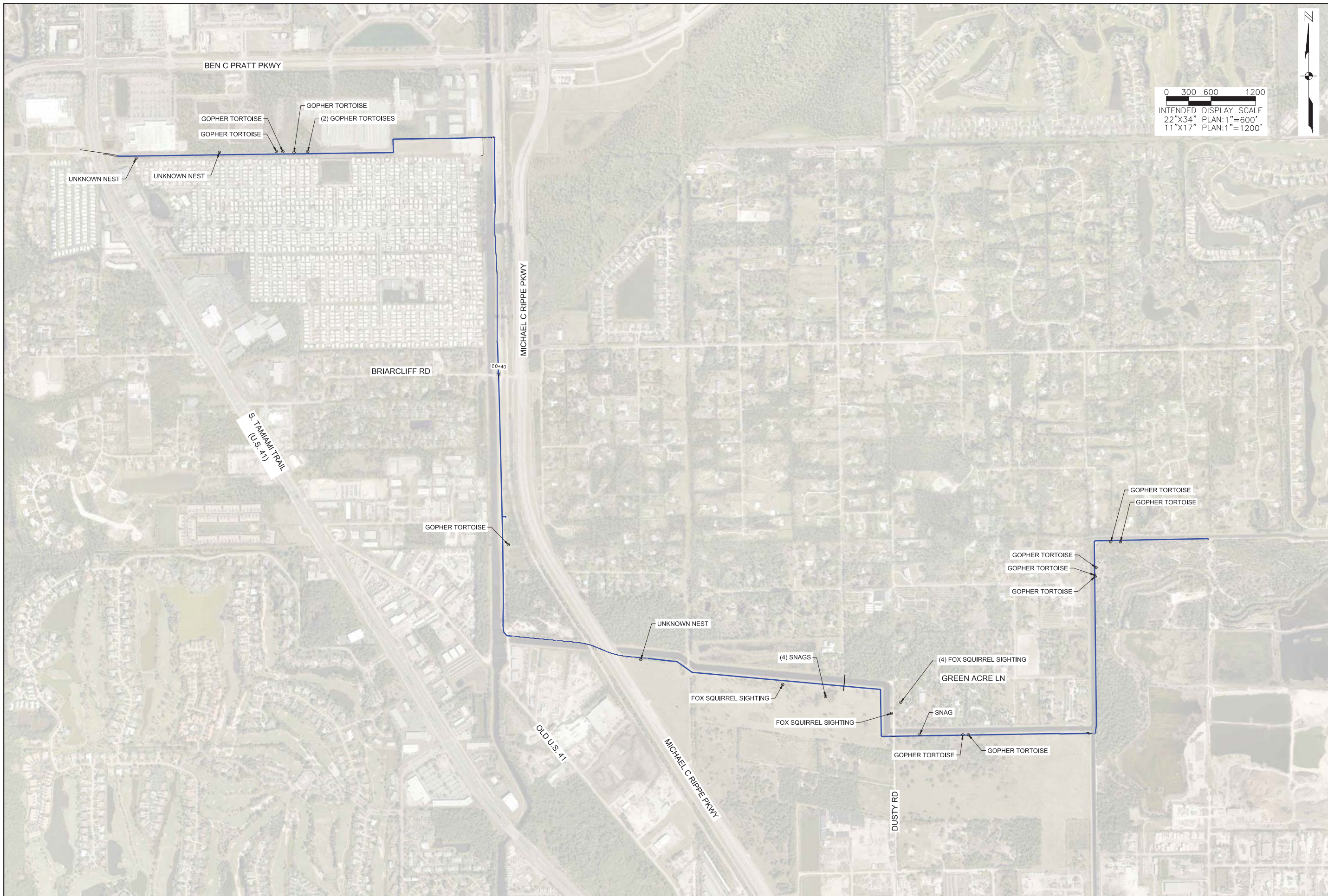
NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Easement Locations

SHEET NUMBER

58



0 300 600 1200
 INTENDED DISPLAY SCALE
 22"X34" PLAN: 1"=600'
 11"X17" PLAN: 1"=1200'

DAVID BRICE TROUTEAUX, PE
 FL License No. 69783



RSW TRANSMISSION LINE
 - BEN HILL/TREELINE
 Lee County, Florida

NO.	DESCRIPTION	DATE

DATE: JANUARY 27, 2021
 PROJECT NO. 20192277-000
 FILE NO. 25-45-24
 SCALE: AS SHOWN

100% Construction Plans
 Species Locations
 Exhibit

SHEET NUMBER



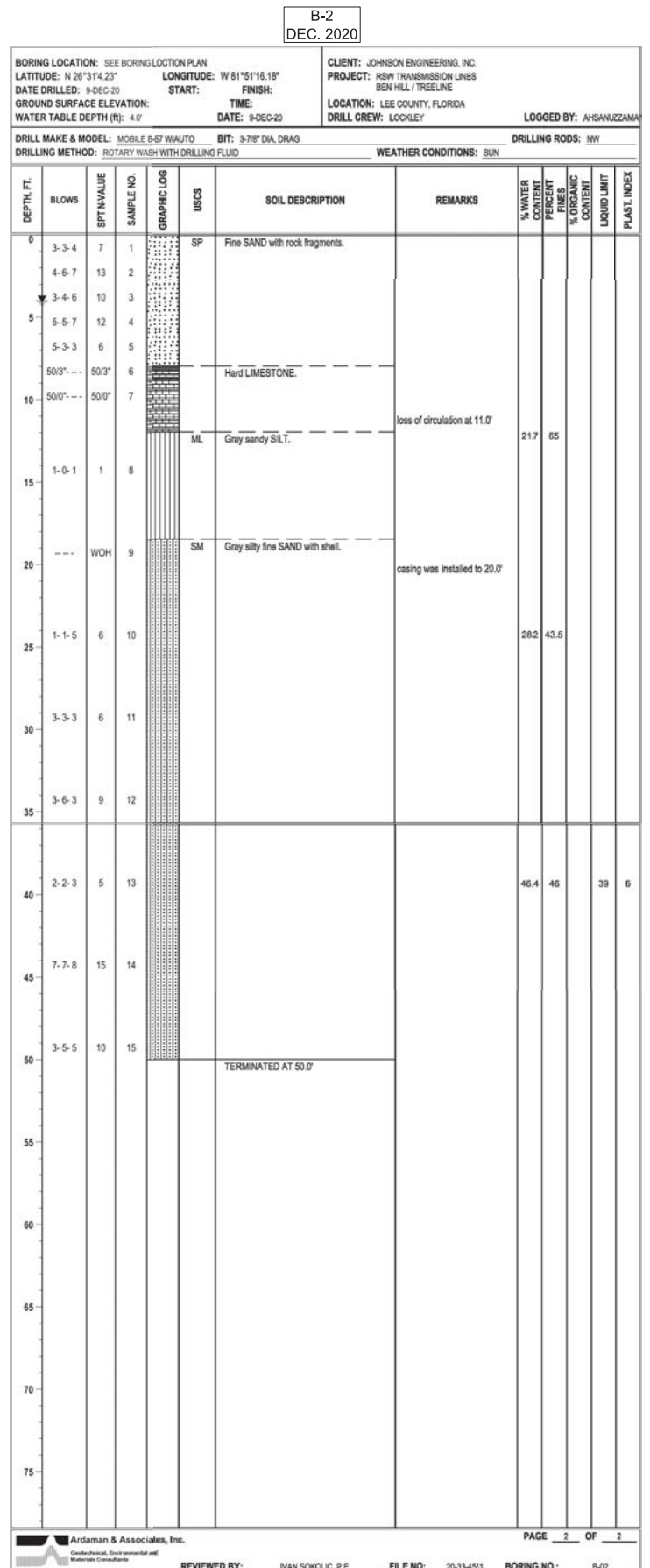
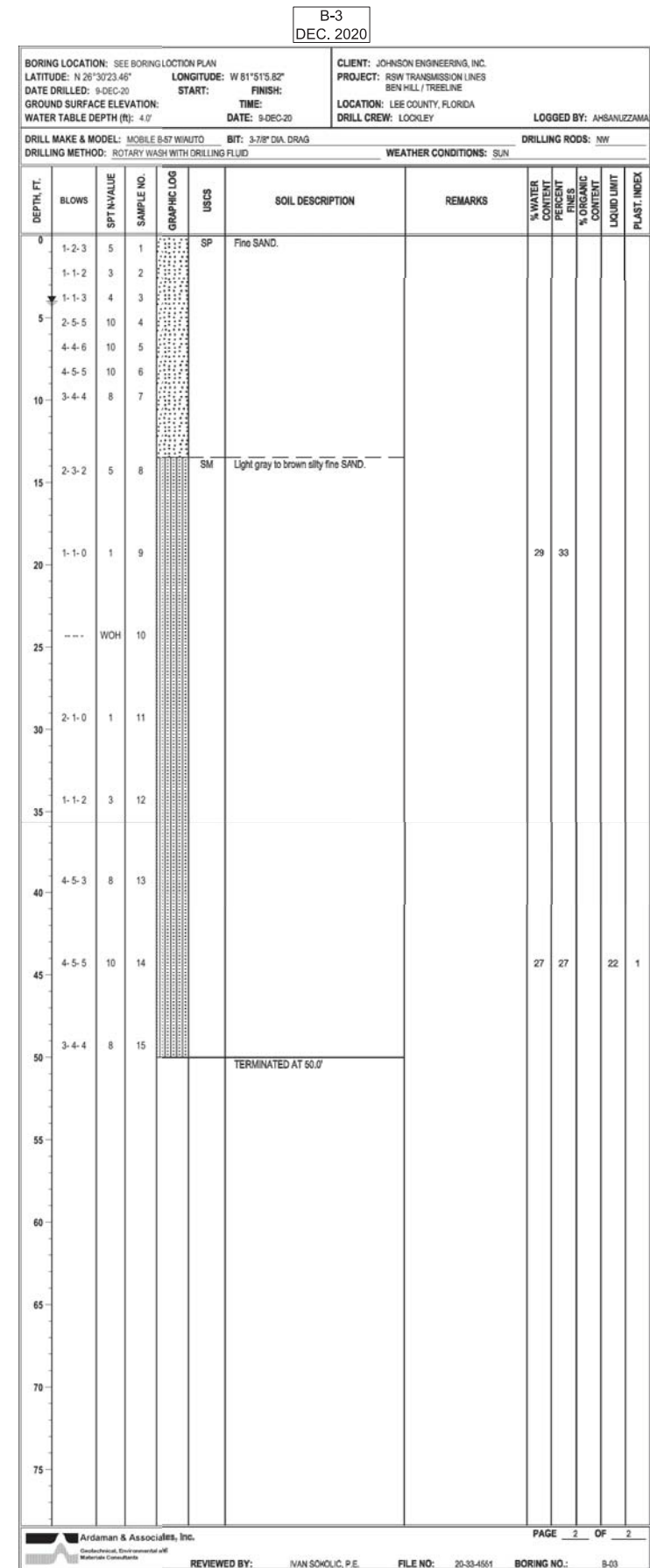
RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	REVISIONS DESCRIPTION	DATE

DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Bore Logs 2 of 2

SHEET NUMBER



NO.	DATE	DESCRIPTION

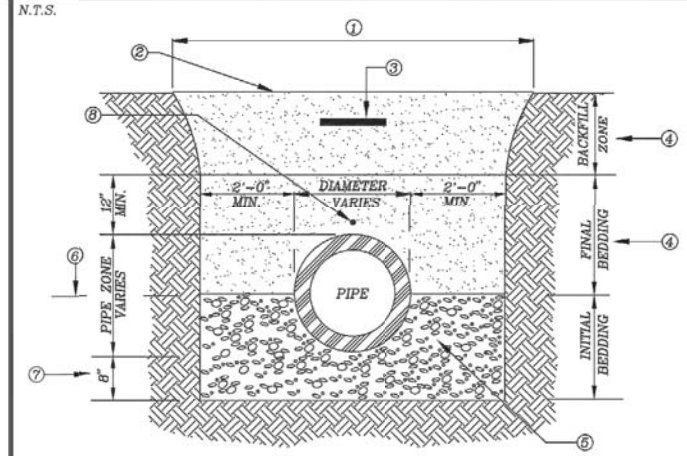
DATE: JANUARY 27, 2021
PROJECT NO. 20192277-000
FILE NO. 25-45-24
SCALE: AS SHOWN

100% Construction Plans
Details 1 of 2

SHEET NUMBER

D-01

STANDARD DETAIL NO. 6.5
LEE COUNTY UTILITIES
TRENCH CROSS SECTION

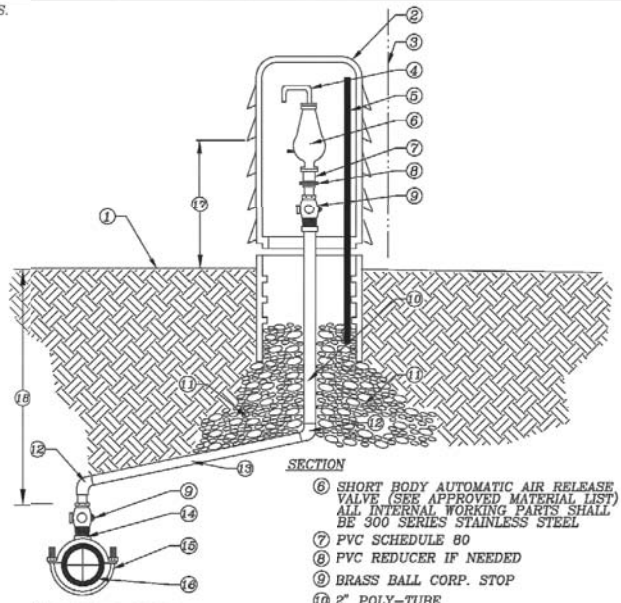


- ① EXCAVATED TRENCH
- ② FINISHED GRADE
- ③ MARKING TAPE 12" DEPTH MAX.
- ④ MATERIALS CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECHANICALLY COMPACTED IN 6" LIFTS TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY.
- ⑤ #57 STONE LOCATED UNDER PIPE OR EXISTING UNDISTURBED SUITABLE MATERIAL.
- ⑥ SPRING LINE
- ⑦ STANDARD 8" MIN TRENCH UNDERCUT AND BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS ADDITIONAL UNDERCUT AND CRUSHED ROCK BEDDING FOUNDATION WHEN DIRECTED BY L.C.U. THE CONTRACTOR IS TO REMOVE UNSTABLE MATERIAL FROM THE TRENCH FOUNDATION. THEN INSTALL STABILIZED CRUSHED ROCK BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS
- ⑧ LOCATING WIRE IS REQUIRED FOR ALL PRESSURIZED PIPELINES.

REV: 12/10/2015

THIS DRAWING CONTAINS DETAILS DESIGNED BY, STANDARD TO, AND FURNISHED BY
LEE COUNTY UTILITIES
SAID DETAILS WERE NOT DESIGNED BY JOHNSON ENGINEERING.

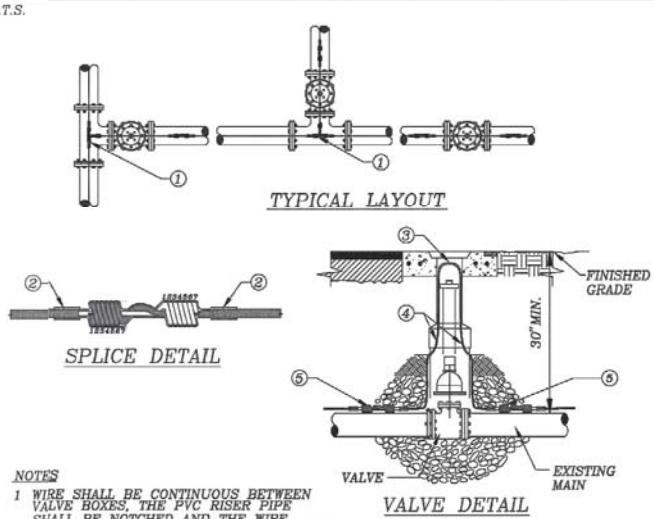
STANDARD DETAIL NO. 6.4
LEE COUNTY UTILITIES
AUTOMATIC AIR RELEASE VALVE



- ① FINISHED GRADE
- ② PEDESTAL HOUSING (SEE APPROVED MATERIAL LIST) COLORS: BLUE-WATER, GREEN-SEWER, PANTONE-REUSE
- ③ EDGE OF RIGHT-OF-WAY
- ④ PVC STREET ELL
- ⑤ S.S. POST WITH S.S. HARDWARE AND S.S. LOCKING HASP WITH BRASS LOCK
- ⑥ SHORT BODY AUTOMATIC AIR RELEASE VALVE (SEE APPROVED MATERIAL LIST) ALL INTERNAL WORKING PARTS SHALL BE 300 SERIES STAINLESS STEEL
- ⑦ PVC SCHEDULE 80
- ⑧ BRASS BALL CORP. STOP
- ⑨ 2" POLY-TUBE
- ⑩ 3/4" GRANULAR MATERIAL #57 STONE
- ⑪ 2" BRASS FITTING IF NECESSARY
- ⑫ 1% MIN. SLOPE UP, 2" POLY-TUBE
- ⑬ TAP AT CROWN OF PIPE
- ⑭ 2" DOUBLE STRAP TAPPING SADDLE (SEE APPROVED MATERIAL LIST)
- ⑮ EXISTING PRESSURE MAIN
- ⑯ 24"
- ⑰ 30" MIN.

REV: 12/10/2015

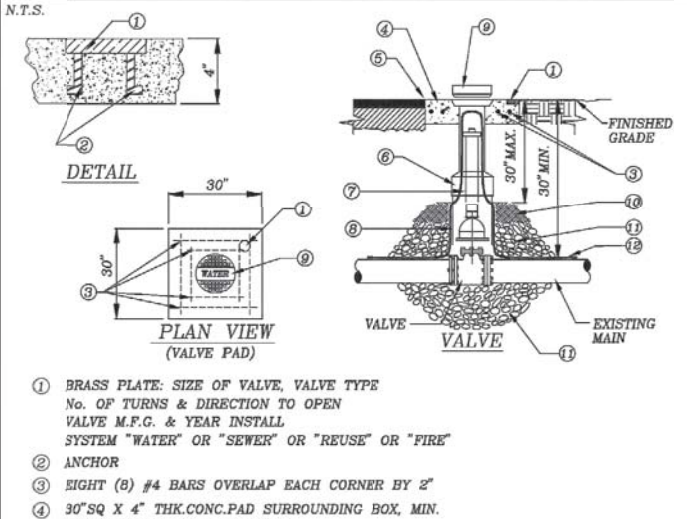
STANDARD DETAIL NO. 6.3
LEE COUNTY UTILITIES
LOCATING WIRE FOR PRESSURE MAINS



- NOTES**
- WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES. THE PVC RISER PIPE SHALL BE NOTCHED AND THE WIRE ATTACHED TO THE RISER PIPE TO ALLOW FOR THE WIRE TO FIT INSIDE THE CAST IRON VALVE BOX WITHOUT SHEARING THE WIRE.
 - LOCATING WIRE SHALL BE LAID ON TOP OF THE MAIN AND SHALL BE TAPED TO IT AT 10' INTERVALS AND TAPED AT ALL FITTINGS. TAP SHALL BE 10 MIL POLYETHYLENE.
 - CONTRACTOR SHALL CONDUCT A CONTINUITY TEST ON ALL LOCATING WIRE SPLICES. PRIOR TO SCHEDULING THE OFFICIAL FINAL INSPECTION WITH LCU.
 - ALL SPLICES SHALL UTILIZE A DIRECT BURY WATERPROOF SPLICE KIT (SEE APPROVED MATERIAL LIST)
- ① SPLICE RUN TOGETHER KEEP CLEAR OF FITTING, TYPICAL
 - ② COVER SPLICE WITH 2 WRAPS OF 10 MIL POLYETHYLENE TAPE
 - ③ 6" LOOP OF BARE WIRE, 9" MAX. DEPTH TO TOP OF BARE WIRE
 - ④ 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE
 - ⑤ SPLICE (SEE DETAIL THIS SHEET)

REV: 12/10/2015

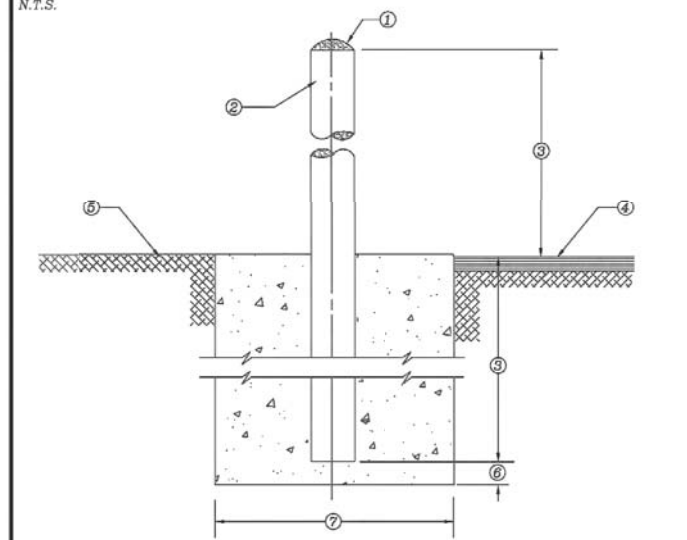
STANDARD DETAIL NO. 6.2
LEE COUNTY UTILITIES
VALVE INSTALLATION



- ① BRASS PLATE: SIZE OF VALVE, VALVE TYPE, No. OF TURNS & DIRECTION TO OPEN, VALVE M.F.C. & YEAR INSTALL, SYSTEM "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
- ② ANCHOR
- ③ EIGHT (8) #4 BARS OVERLAP EACH CORNER BY 2"
- ④ 30" SQ X 4" THK. CONC. PAD SURROUNDING BOX, MIN. 3,000 P.S.I. POURED IN PLACE
- ⑤ SET TOP OF BOX FLUSH WITH FINISHED GRADE
- ⑥ HEAVY DUTY TRAFFIC BEARING CAST IRON VALVE BOX, ADJUSTABLE SCREW TYPE, 5 1/4" DIAMETER SHAFT THAT IS LCU APPROVED
- ⑦ EXTENSION STEM WITH 2" OPERATING NUT AS REQUIRED, IF NUT IS MORE THAN 30" BELOW FINISH GRADE
- ⑧ RISER NOT TO BEAR ON VALVE OR PIPE
- ⑨ CAST IRON DROP COVER MARKED "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
- ⑩ COMPACTED SUITABLE EARTH BACKFILL
- ⑪ 3/4" GRANULAR MATERIAL #57 STONE
- ⑫ 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

REV: 12/10/2015

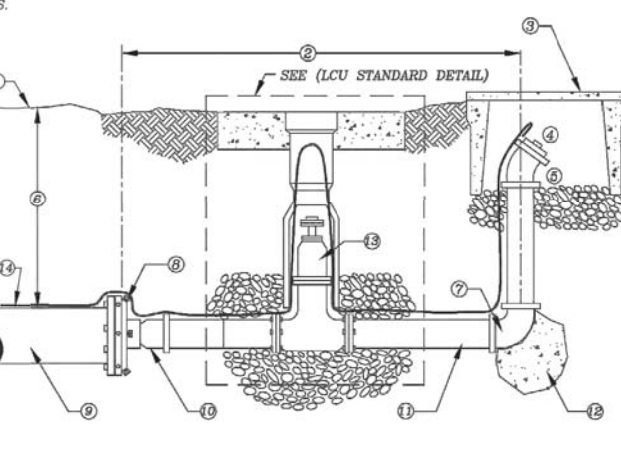
STANDARD DETAIL NO. 6.44
LEE COUNTY UTILITIES
BOLLARD POST DETAIL



- ① FILL AND TOP PIPE WITH CONCRETE
 - ② 6" DIA. X 6'-0" LONG PRESSURE CLASS 350 DUCTILE IRON PIPE
 - ③ 3'-0" MINIMUM
 - ④ PAVEMENT
 - ⑤ FINISHED GRADE
 - ⑥ 3"
 - ⑦ 18" DIA. CONCRETE ENCASEMENT 3000 P.S.I.
- NOTE:**
1. PAINT BOLLARD TO LCU STANDARDS

REV: 12/10/2015

STANDARD DETAIL NO. 6.14
LEE COUNTY UTILITIES
BLOW OFF DETAIL

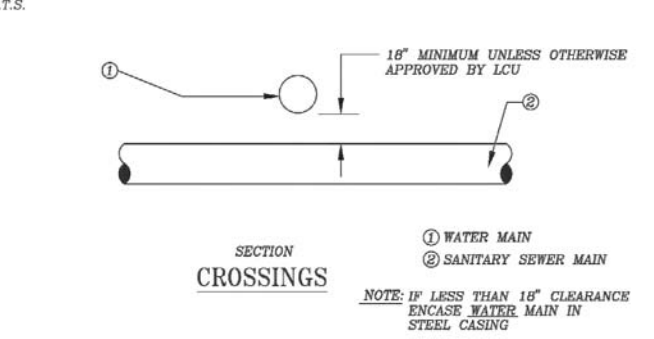


- ① FINISHED GRADE
- ② 5'-0" MAX.
- ③ WATER METER BOX W/GRAVEL BOTTOM (SEE APPROVED MATERIAL LIST)
- ④ 2" THREADED PLUG
- ⑤ 2'-45" BEND
- ⑥ 30" MIN.
- ⑦ 2'-90" BEND
- ⑧ M.J. CAP WITH 2" TAP
- ⑨ END OF WATER MAIN, R.J. PER SCHEDULE
- ⑩ 2" THREADED
- ⑪ 2" P.V.C. (SCH #9) C. MALE ADAPTER
- ⑫ POURED IN PLACE THRUST BLOCKING (SEE DETAIL 9.20)
- ⑬ 2" DIAMETER GATE VALVE
- ⑭ 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

NOTE:
ALL PIPING TO BE 2" P.V.C. (SCH 80) THREADED FITTINGS OR SOLVENT WELDED FITTINGS

REV: 12/10/2015

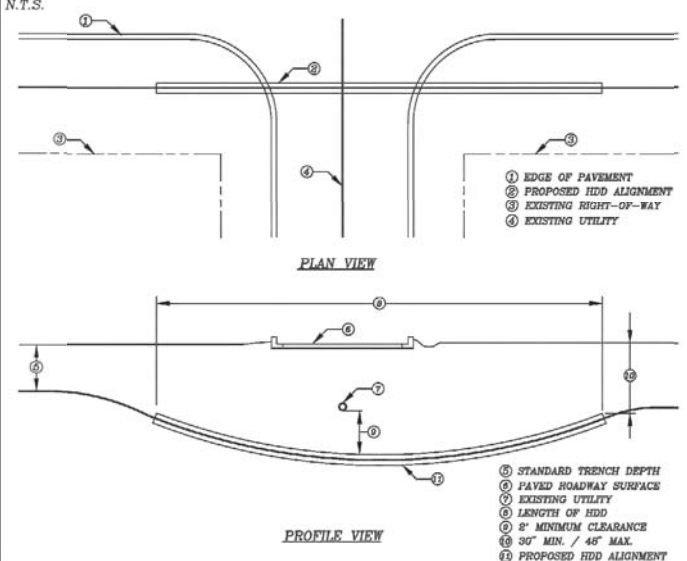
STANDARD DETAIL NO. 6.8
LEE COUNTY UTILITIES
WATER AND SEWER CROSSING DETAIL



- ① WATER MAIN
 - ② SANITARY SEWER MAIN
- NOTE: IF LESS THAN 18' CLEARANCE ENCASE WATER MAIN IN STEEL CASING**
- NOTE: IF LESS THAN 10' CLEARANCE ENCASE WATER MAIN IN STEEL CASING**

REV: 12/10/2015

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

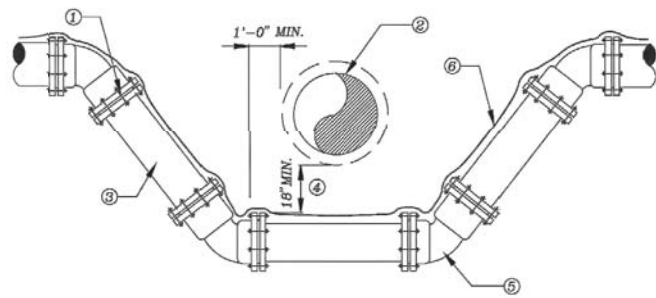


- HDD INSTALLATION NOTES:**
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LEE COUNTY UTILITIES DESIGN MANUAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
 - ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
 - ALL RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
 - CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
 - NO CASING SPACERS REQUIRED.
 - 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. 6.10
LEE COUNTY UTILITIES
WATER PRESSURE LINE VERTICAL OFFSET
W/ DUCTILE IRON MJ FITTINGS & PIPE

N.T.S.

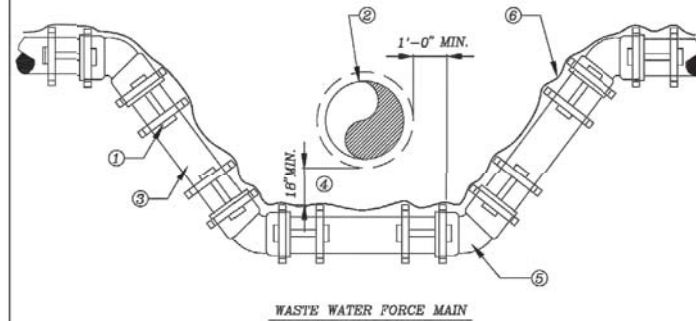


- ① LCU APPROVED JOINT RESTRAINT FOR D.I. M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE. (SEE DETAIL 6.12)
- ② CONFLICT PIPE
- ③ LCU APPROVED DUCTILE IRON PIPING PRESSURE CLASS 350
- ④ 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
- ⑤ 45° MECHANICAL JOINT FITTING, TYPICAL
- ⑥ 12 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)

REV: 12/10/2015

STANDARD DETAIL NO. 6.11
LEE COUNTY UTILITIES
WASTE WATER FORCE MAIN VERTICAL OFFSET
WITH FITTINGS. (P.V.C.)

N.T.S.



- ① LCU APPROVED JOINT RESTRAINT FOR P.V.C. M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE. (SEE DETAIL 6.12)
- ② CONFLICT PIPE
- ③ LCU APPROVED C-900 PVC DR 14
- ④ 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
- ⑤ 45° MECHANICAL JOINT FITTING, TYPICAL
- ⑥ 12 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)

REV: 12/10/2015

STANDARD DETAIL NO. 6.12
LEE COUNTY UTILITIES
RESTRAINED LENGTH SCHEDULE

N.T.S.

DUCTILE IRON PIPE

PIPE SIZE (Inches)	MINIMUM RESTRAINED PIPE LENGTH (FEET)				DEAD END	HORIZONTAL TEE
	90°	45°	22-1/2'	11-1/4'		
4	17	7	4	2	29	6
6	23	10	5	2	40	17
8	29	12	6	3	53	29
10	35	14	7	4	63	38
12	41	17	8	4	74	49
16	51	21	11	5	94	68
24	69	29	14	7	131	105
30	81	34	17	8	156	129

PVC PIPE

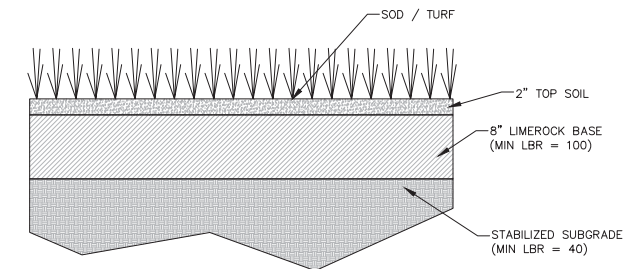
PIPE SIZE (Inches)	MINIMUM RESTRAINED PIPE LENGTH (FEET)				DEAD END	HORIZONTAL TEE
	90°	45°	22-1/2'	11-1/4'		
4	20	8	4	2	45	8
6	29	12	6	3	63	25
8	36	15	8	4	83	43
10	44	18	9	5	99	58
12	51	21	11	5	116	74
16	63	26	13	7	149	103
24	87	36	18	9	208	158
30	102	42	21	10	248	194

A COMPLETE JOINT RESTRAINING SCHEDULE FOR ALL ENCOUNTERED VERTICAL & HORIZONTAL BENDS, VERTICAL OFFSETS, TEES, AND DEAD ENDS SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER.

LENGTH FIGURES BASED ON FOLLOWING:

Pressure = 150 psi, FS = 1.5, trench type = 3, 30" cover on Bare pipe, Soil type = GP & SP

REV: 12/10/2015



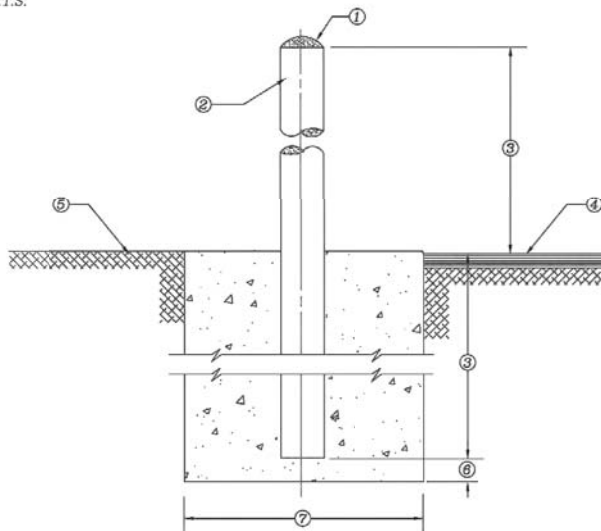
STABILIZED ACCESS DETAIL

N.T.S.

THIS DRAWING CONTAINS DETAILS DESIGNED BY, STANDARD TO, AND FURNISHED BY LEE COUNTY UTILITIES. SAID DETAILS WERE NOT DESIGNED BY JOHNSON ENGINEERING.

STANDARD DETAIL NO. 6.44
LEE COUNTY UTILITIES
BOLLARD POST DETAIL

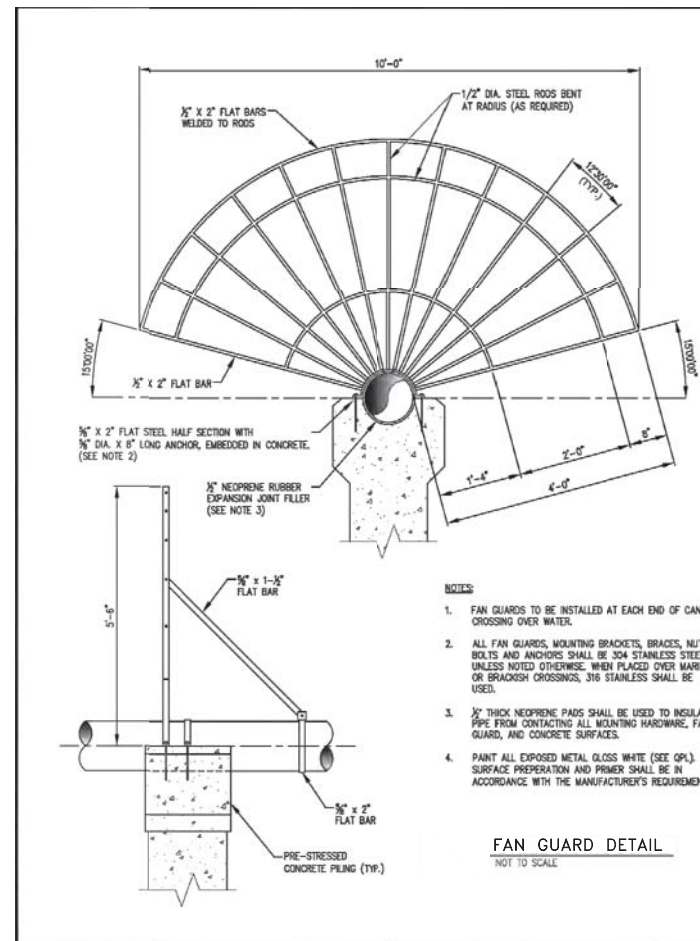
N.T.S.



- ① FILL AND TOP PIPE WITH CONCRETE
- ② 6" DIA. x 6'-0" LONG PRESSURE CLASS 350 DUCTILE IRON PIPE
- ③ 3'-0" MINIMUM
- ④ PAVEMENT
- ⑤ FINISHED GRADE
- ⑥ 3"
- ⑦ 18" DIA. CONCRETE ENCASMENT 3000 P.S.I.

NOTE:
 1. PAINT BOLLARD TO LCU STANDARDS

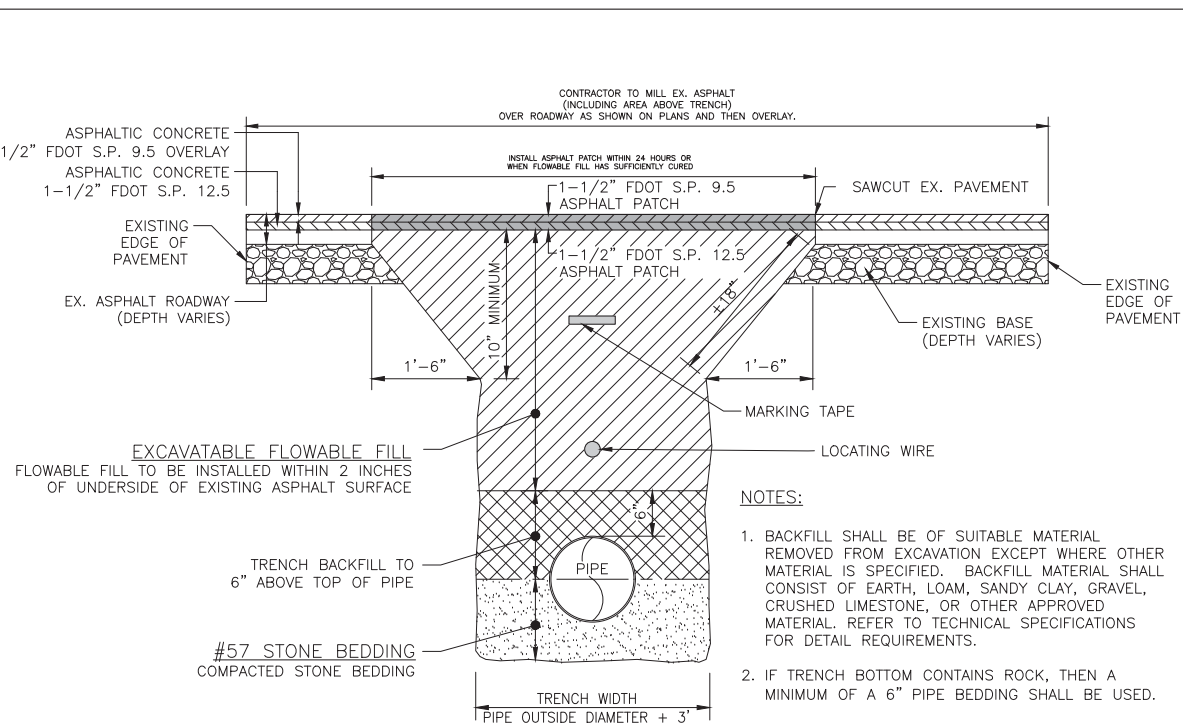
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- NOTES:**
- FAN GUARDS TO BE INSTALLED AT EACH END OF CANAL CROSSING OVER WATER.
 - ALL FAN GUARDS, MOUNTING BRACKETS, BRACES, NUTS, BOLTS AND ANCHORS SHALL BE 304 STAINLESS STEEL UNLESS NOTED OTHERWISE. WHEN PLACED OVER MARINE OR BRACKISH CROSSINGS, 316 STAINLESS SHALL BE USED.
 - 1/2" THICK NEOPRENE PADS SHALL BE USED TO INSULATE PIPE FROM CONTACTING ALL MOUNTING HARDWARE, FAN GUARD, AND CONCRETE SURFACES.
 - PAINT ALL EXPOSED METAL GLOSS WHITE (SEE O.P.). SURFACE PREPARATION AND PRIMER SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

FAN GUARD DETAIL

NOT TO SCALE



NOTES:

- BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. BACKFILL MATERIAL SHALL CONSIST OF EARTH, LOAM, SANDY CLAY, GRAVEL, CRUSHED LIMESTONE, OR OTHER APPROVED MATERIAL. REFER TO TECHNICAL SPECIFICATIONS FOR DETAIL REQUIREMENTS.
- IF TRENCH BOTTOM CONTAINS ROCK, THEN A MINIMUM OF A 6" PIPE BEDDING SHALL BE USED.

PAVED AREA TRENCH AND ROADWAY RESTORATION DETAIL

NTS

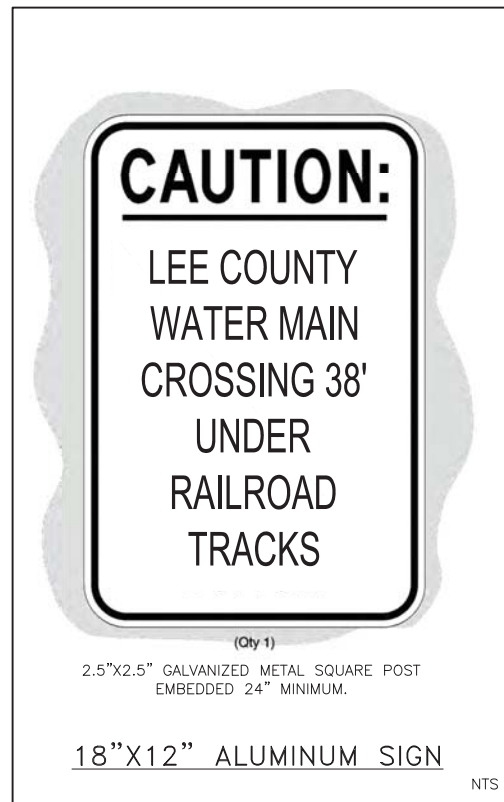
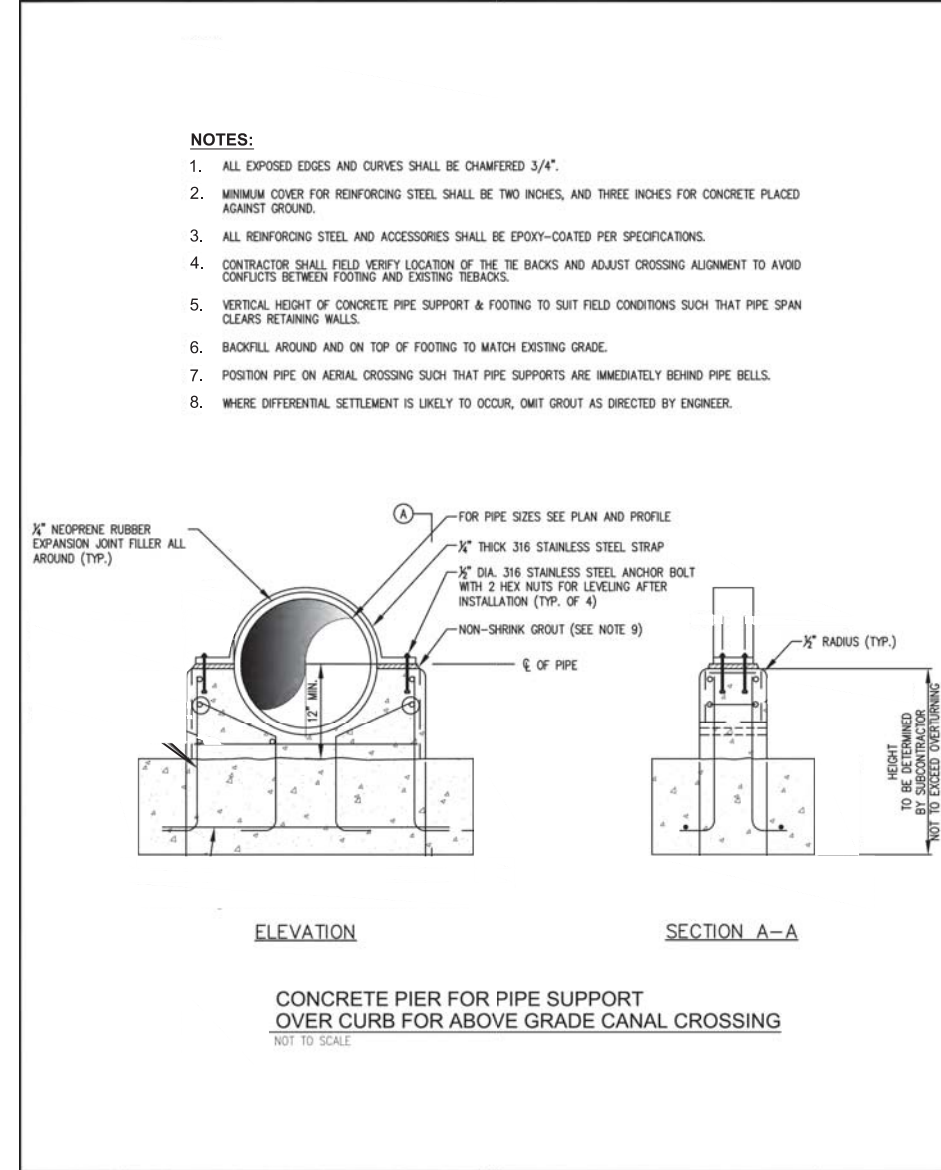
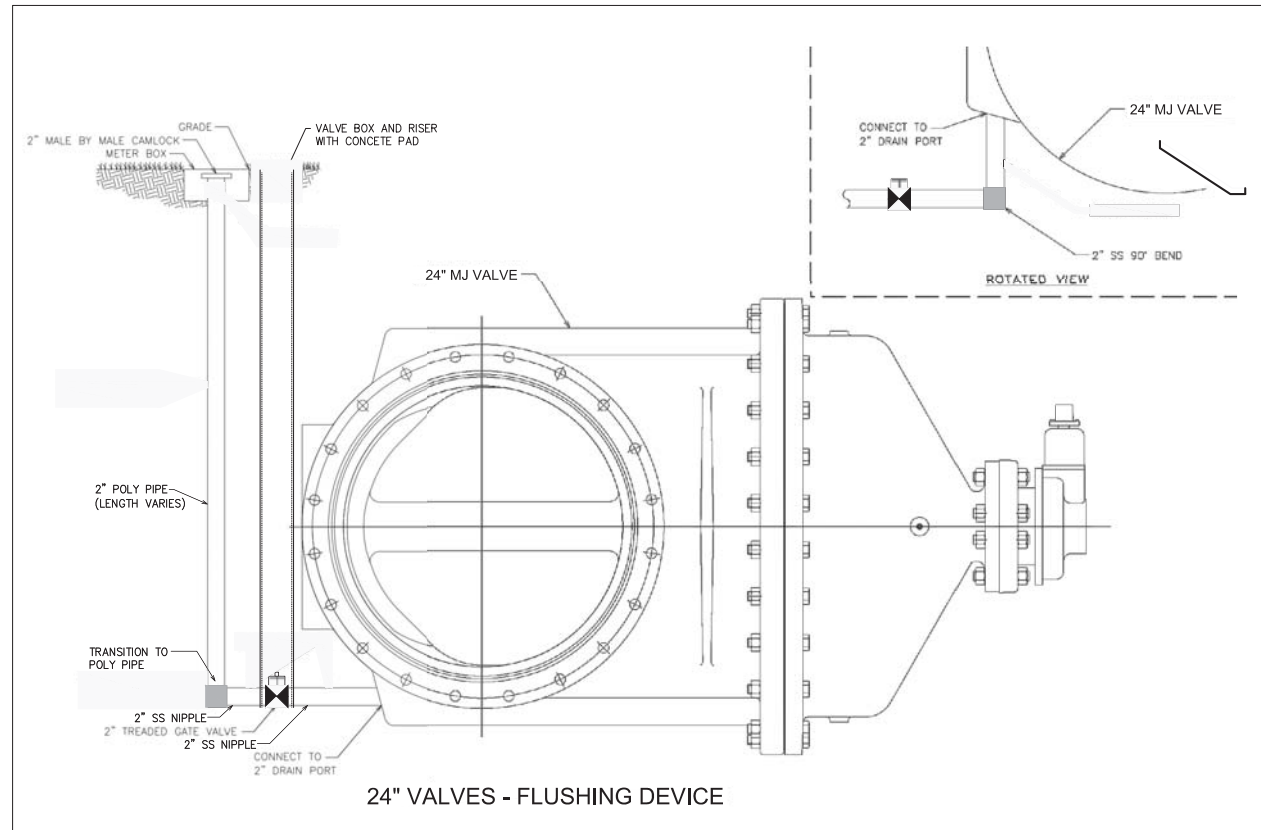
NO.	DATE	DESCRIPTION

DATE: JANUARY 27, 2021
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100% Construction Plans
 Details 2 of 2

SHEET NUMBER

D-02



RSW TRANSMISSION LINE
- BEN HILL/TREELINE
Lee County, Florida

NO.	DESCRIPTION	DATE

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100% Construction Plans
Details 3 of 3

GENERAL STRUCTURAL NOTES

GENERAL: STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND CIVIL DRAWINGS. CONSULT THESE DRAWINGS FOR INFORMATION NOT SHOWN ON STRUCTURAL DRAWINGS.

CODE REQUIREMENTS: THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2017 6TH EDITION OF THE FLORIDA BUILDING CODE. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION.

DESIGN CRITERIA: DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2017 FLORIDA BUILDING CODE.

WIND SPEED (ASCE 7-10) 170 MPH (132 MPH NOMINAL)
 RISK CATEGORY III
 EXPOSURE C
 INTERNAL PRESSURE COEFF0.0 OPEN BUILDING

FOUNDATIONS: FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF ON COMPACTED FILL. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

PILE FOUNDATIONS: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL RECOMMENDATIONS IN THE REPORT PREPARED BY: ALLIED ENGINEERING & TESTING. PROJECT NUMBER: 48-6657. DATED: MARCH 06, 2009. FOUNDATION DESIGN IS BASED ON 12"X12" PILES. PILES SHALL BE DRIVEN A MINIMUM OF 30 FEET INTO BEARING STRATA AND ACHIEVE A MINIMUM SAFE BEARING CAPACITY OF 10 TONS AS COMPUTED BY AN APPROPRIATE DRIVING FORMULA. PILE DRIVING OPERATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING:

CONCRETE MIX DESIGNS,
 CONCRETE REINFORCING,

SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND ARE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER.

DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS, INCLUDING:

PRECAST PRESTRESSED CONCRETE MEMBERS,

SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON THE STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE 2017 FBC.

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW.

PRECAST CONCRETE PILES: CONCRETE PILES SHALL BE 12"X12". ALL PILING SHALL BE DRIVEN OR JETTED AND DRIVEN TO A SAFE BEARING CAPACITY OF 10 TONS USING AN APPROPRIATE DRIVING FORMULA AS SPECIFIED IN THE GEOTECHNICAL REPORT. PILES TO BE CUT OFF SQUARE AT PROPER ELEVATIONS. DRILL AND EPOXY (4) #5 HOOKED DOWEL IN TOP OF PILE AND EXTEND INTO THE PILE CAPS.

PILE MONITORING: AN INDEPENDENT GEOTECHNICAL CONSULTANT (ARDAMAN AND ASSOCIATES) SHALL BE RETAINED TO MONITOR PILE INSTALLATION AND VERIFY LOAD CAPACITY.

CONCRETE: REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

F'C USE
 4000 PSI ALL USES, U.N.O.

CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE, IF USED, SHALL CONFORM TO ASTM C494 AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES

ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP-66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

FOOTINGS 3" BOTTOM AND SIDES, 2" TOP
 COLUMNS 1-1/2" TO TIES
 BEAMS 1-1/2" TO STIRRUPS
 WALLS 1-1/2"

ADHESIVE ANCHORS: ADHESIVE ANCHORS (EPOXY STYLE) SHALL HAVE THE ICC ES EVALUATION REPORT INDICATING CONFORMANCE WITH CURRENT APPLICABLE ICC ES ACCEPTANCE CRITERIA. ADHESIVE SHALL BE MOISTURE INSENSITIVE, ALLOWING INSTALLATIONS IN DAMP OR WATER-FILLED HOLES. ADHESIVE SHALL HAVE A FULL-CURE LOAD OF 2 HOURS OR LESS AT 70°F.

ACCEPTABLE ADHESIVES ARE HILTI RE500 V3, OR DEWALT PURE110+, SIMPSON SET-3G.

INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. EMBEDMENT SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS.

THIS DRAWING CONTAINS DETAILS DESIGNED BY, STANDARD TO, AND FURNISHED BY SELECT STRUCTURAL
 SAID DETAILS WERE NOT DESIGNED BY JOHNSON ENGINEERING.



DAVID BRICE TROUTEAUX, PE
 FL License No. 69783



RSW TRANSMISSION LINE
 - BEN HILL/TREELINE
 LEE COUNTY, FLORIDA

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SHAWN ANDERSON, PE, SE
 FL License No. 53515

Aerial Crossings
 Structural Notes

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D-04

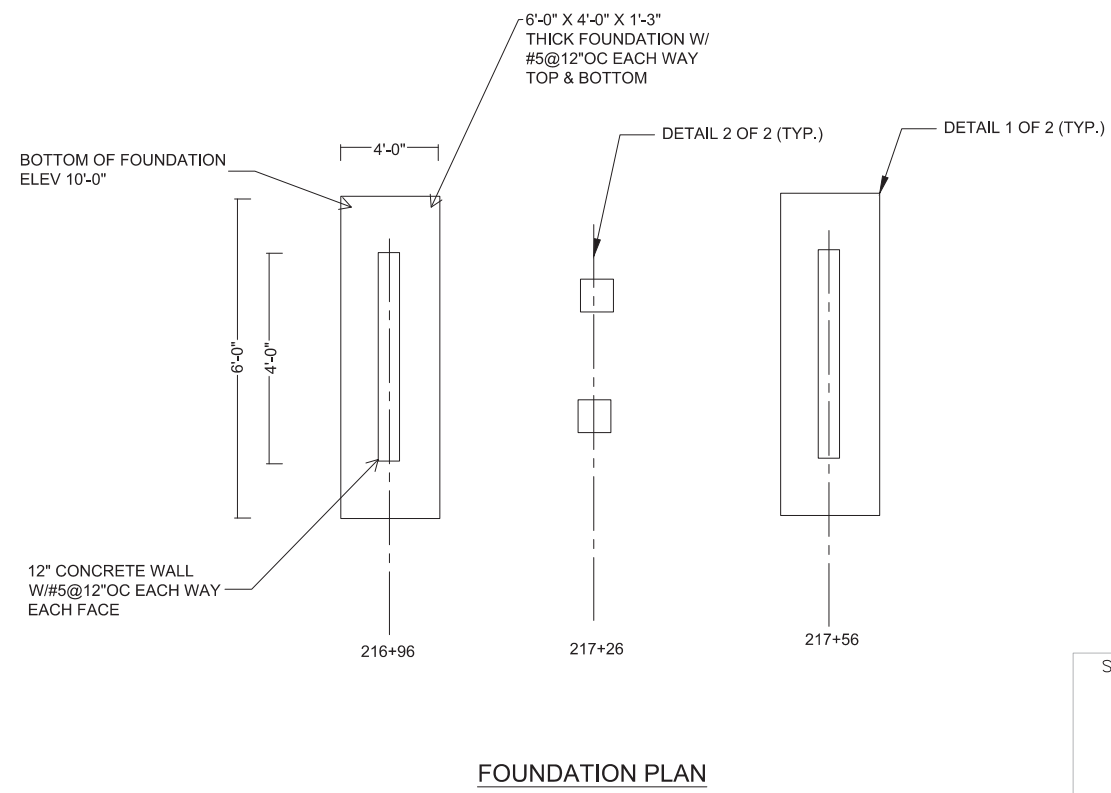
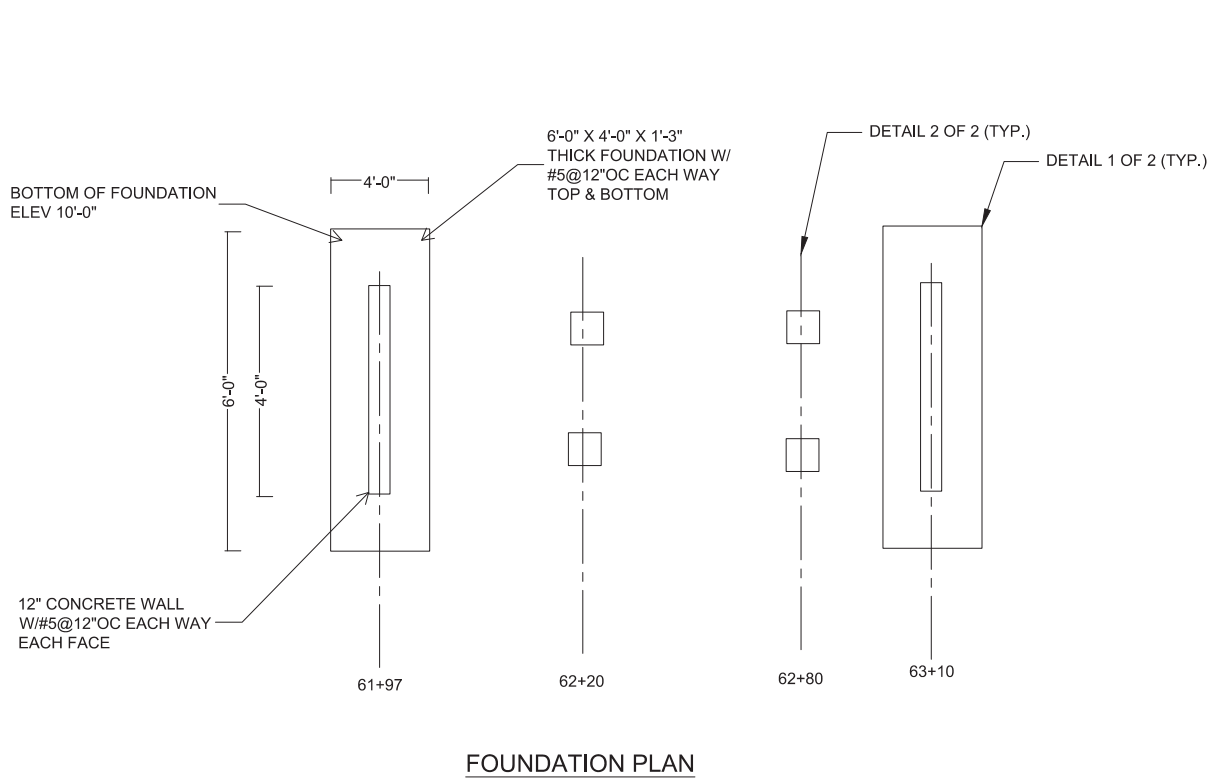
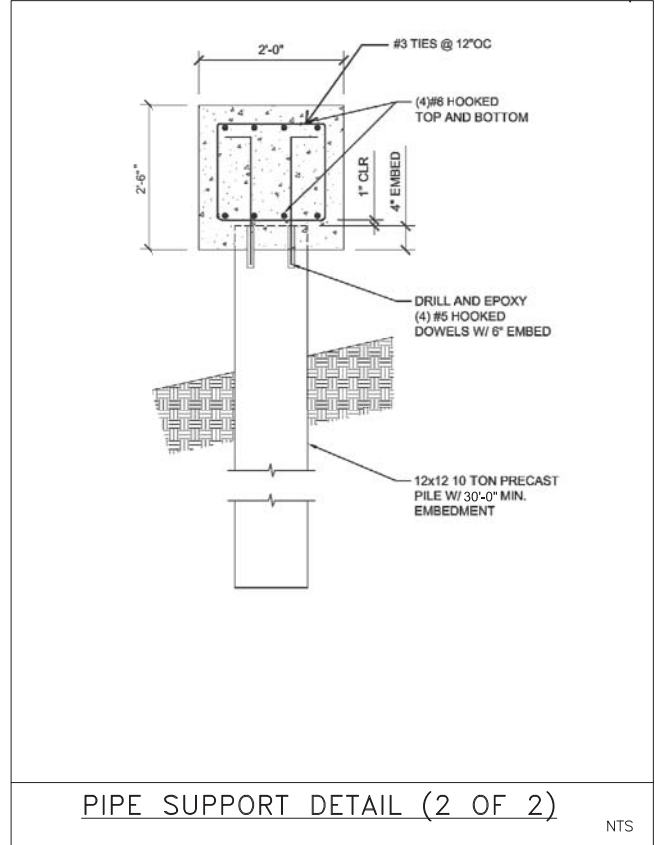
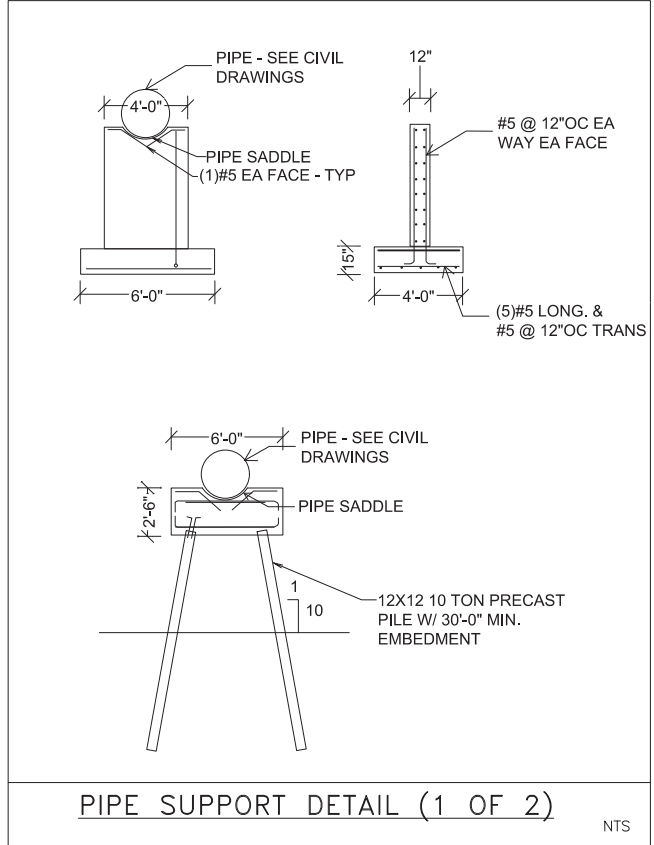
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JOHNSON ENGINEERING
 SELECT STRUCTURAL
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 Certification Auth: 28357

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LEE COUNTY
 SOUTHWEST FLORIDA

RSW TRANSMISSION LINE
 - BEN HILL/TREELINE
 LEE COUNTY, FLORIDA



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Aerial Crossings
 Structural Details

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D-05