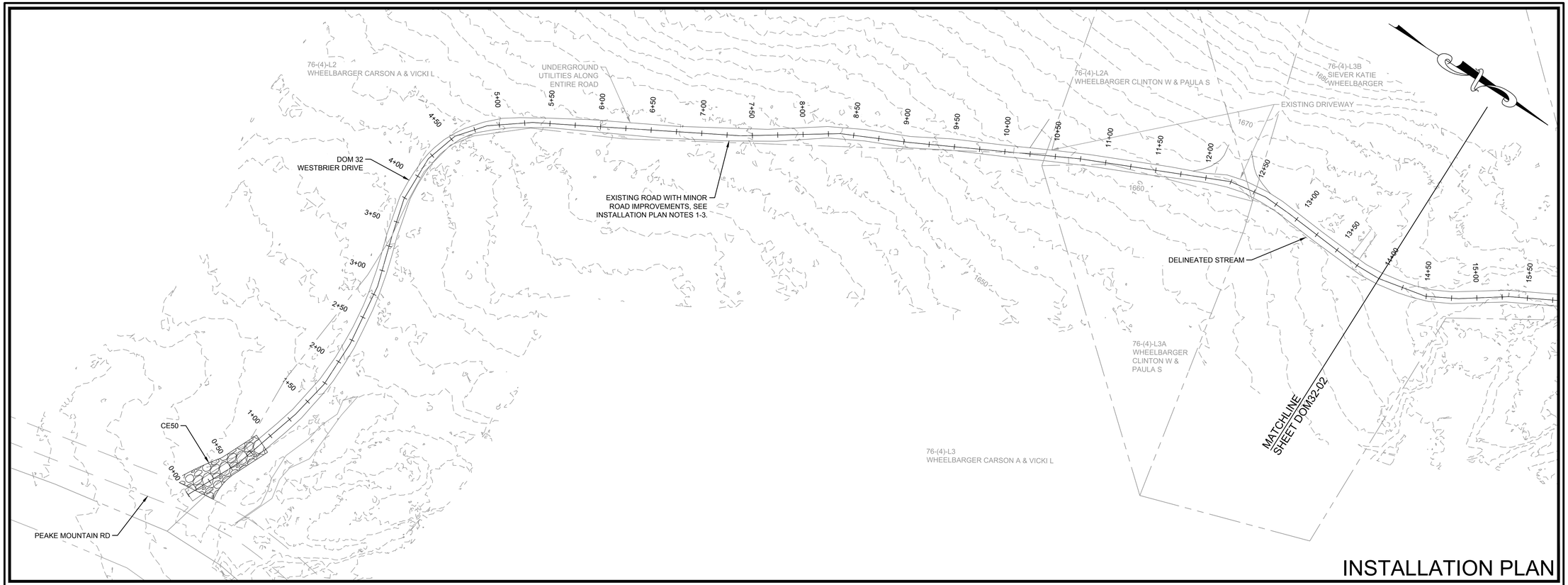
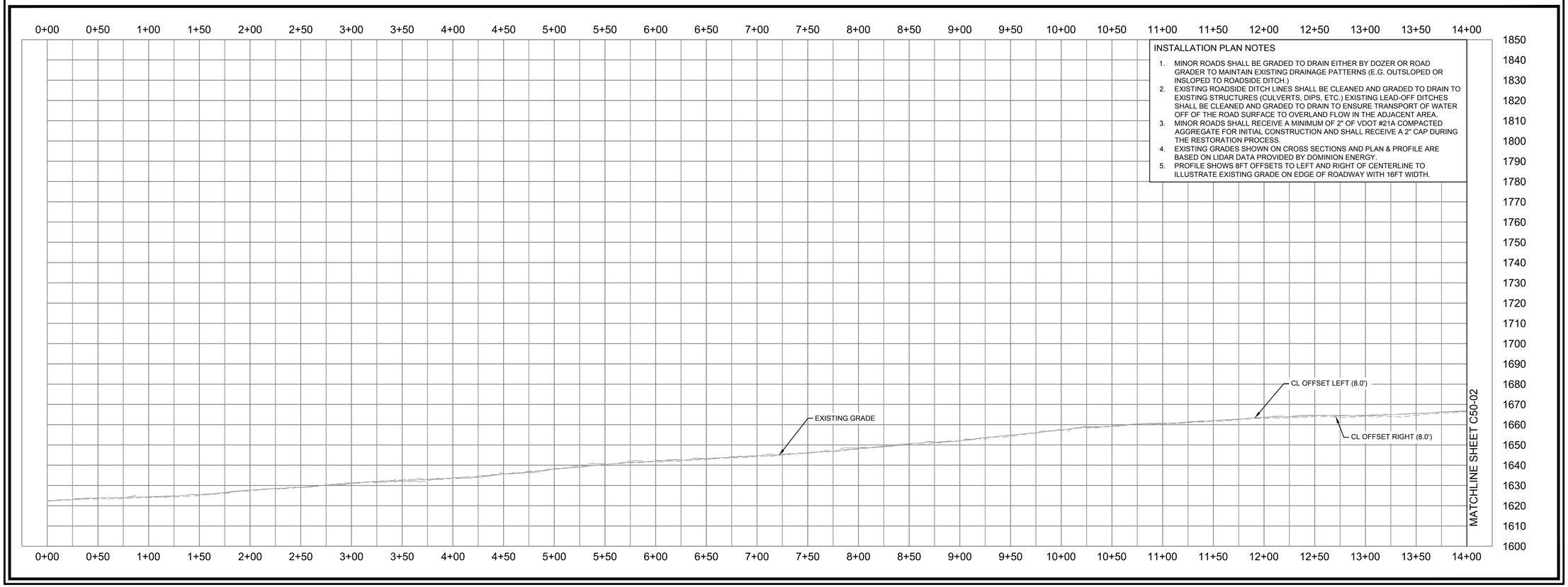


INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. MINOR ROADS SHALL BE GRADED TO DRAIN EITHER BY DOZER OR ROAD GRADER TO MAINTAIN EXISTING DRAINAGE PATTERNS (E.G. OUTSLOPED OR INSLOPED TO ROADSIDE DITCH.)
2. EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (CULVERTS, DIPS, ETC.) EXISTING LEAD-OFF DITCHES SHALL BE CLEANED AND GRADED TO DRAIN TO ENSURE TRANSPORT OF WATER OFF OF THE ROAD SURFACE TO OVERLAND FLOW IN THE ADJACENT AREA.
3. MINOR ROADS SHALL RECEIVE A MINIMUM OF 2" OF VDOT #21A COMPACTED AGGREGATE FOR INITIAL CONSTRUCTION AND SHALL RECEIVE A 2" CAP DURING THE RESTORATION PROCESS.
4. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
5. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
804.290.7928 (FAX)

TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY LAL
APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

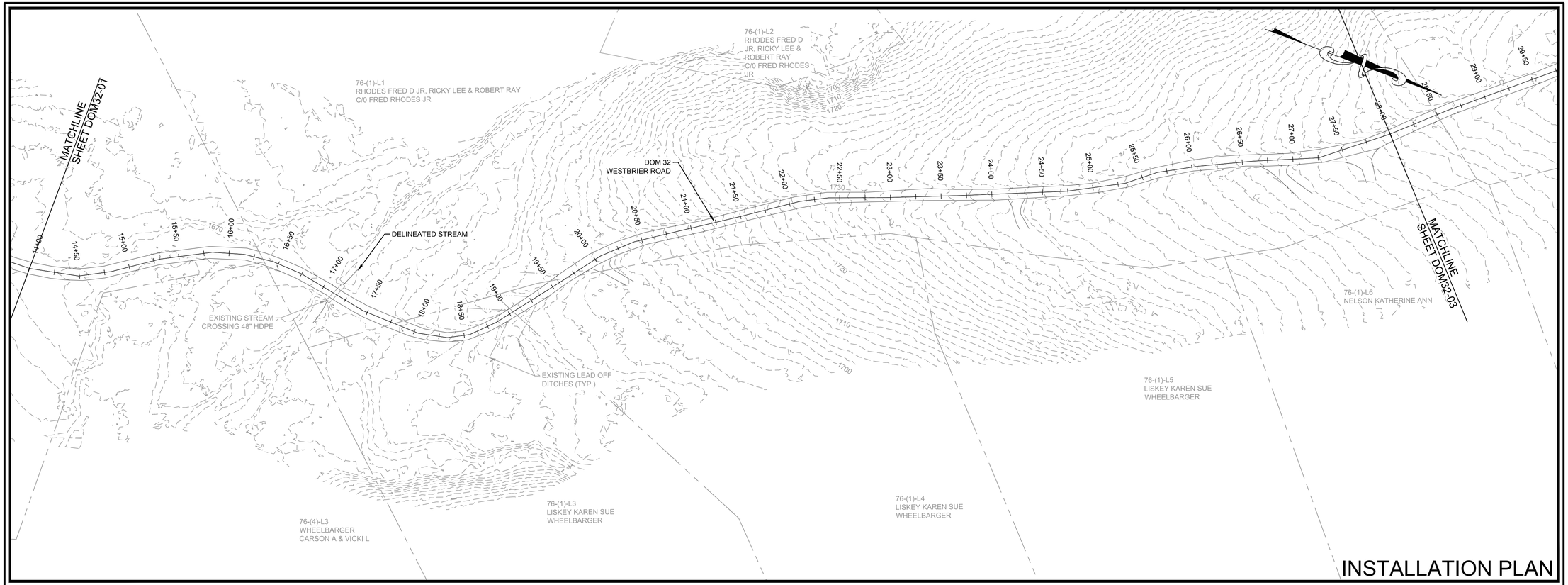
TITLE

DOM 32
PLAN & PROFILE

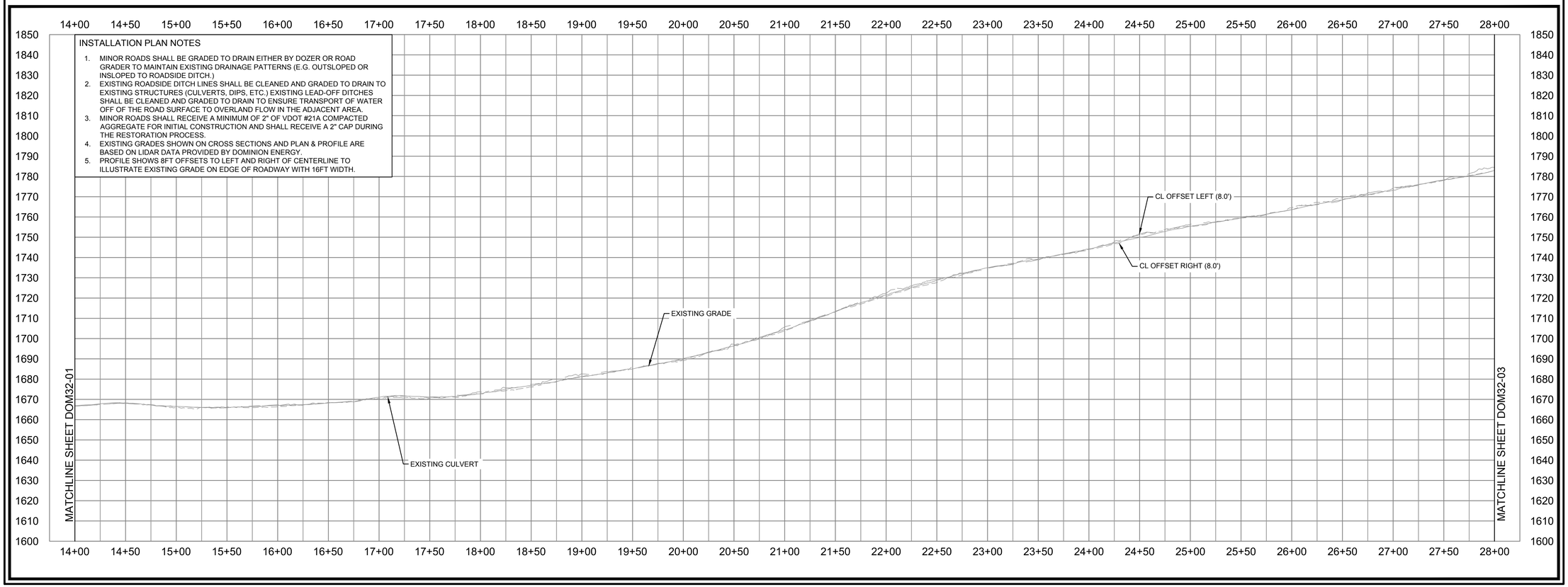
PROJECT NO. 50106442

DOM32-01

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY LAL
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CHECKED BY ARB
DATE 05/28/2021

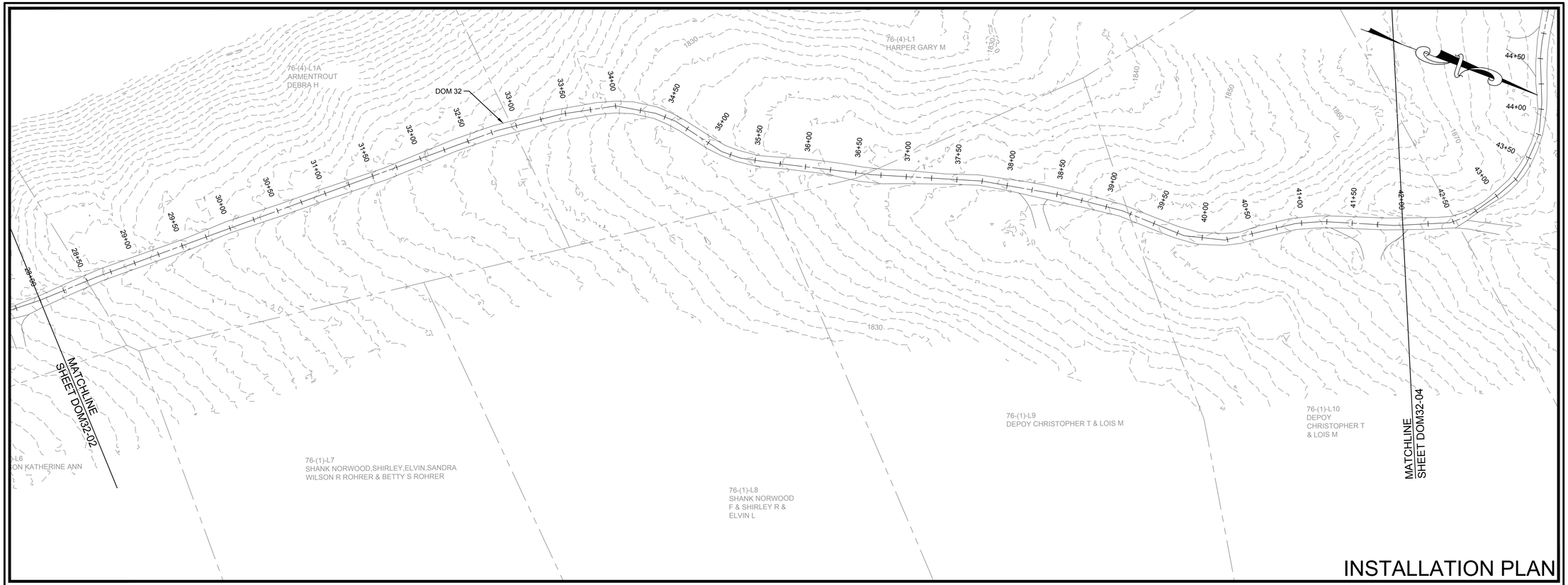
TITLE

DOM 32
PLAN & PROFILE

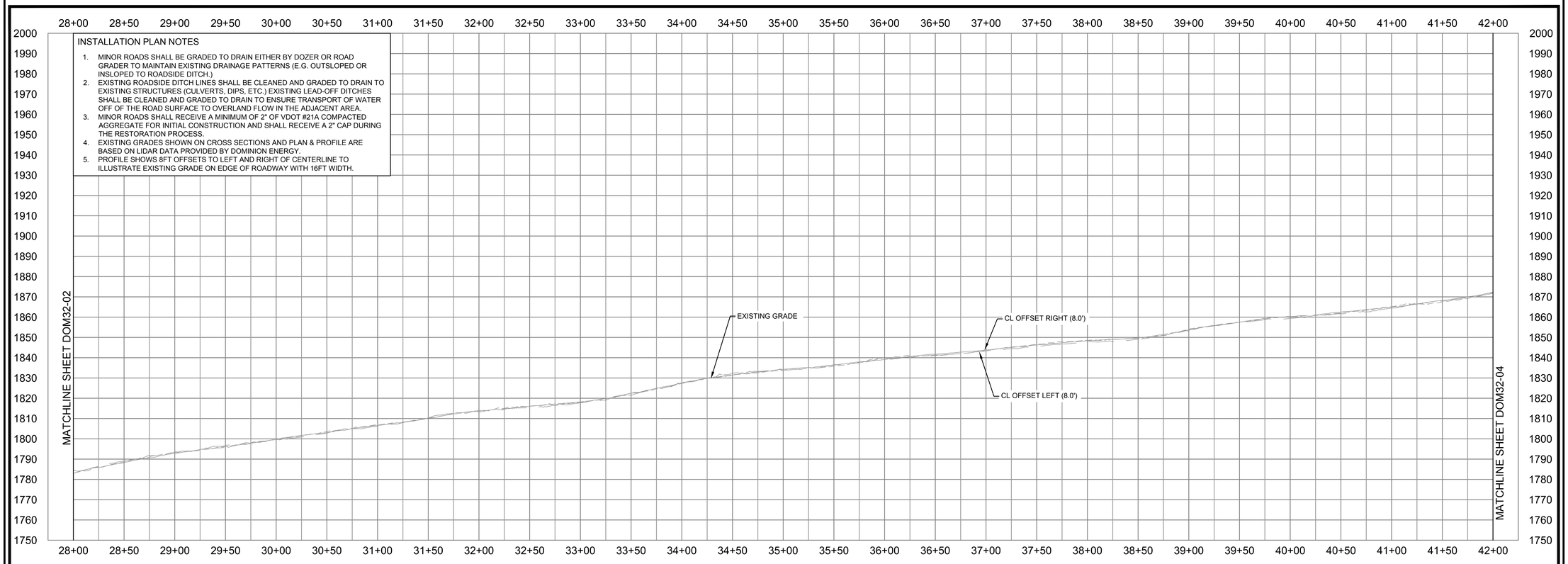
PROJECT NO. 50106442

DOM32-02

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

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CHECKED BY ARB
DATE 05/28/2021

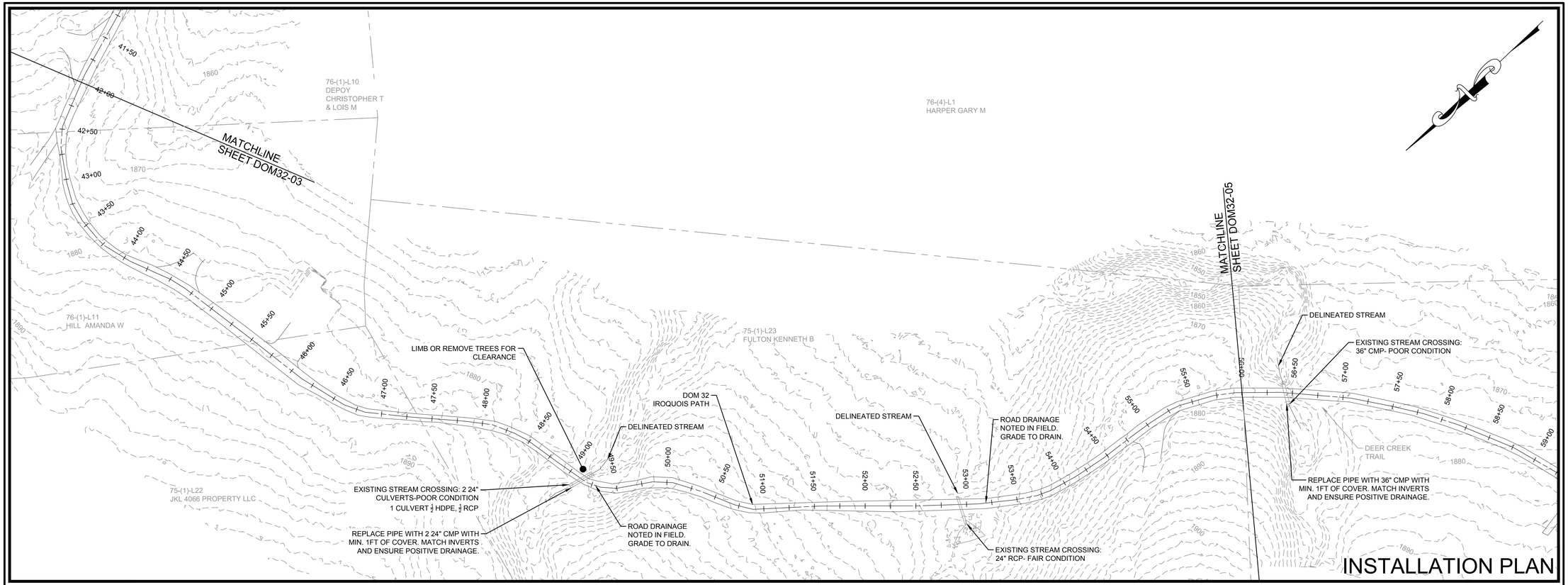
TITLE

DOM 32
PLAN & PROFILE

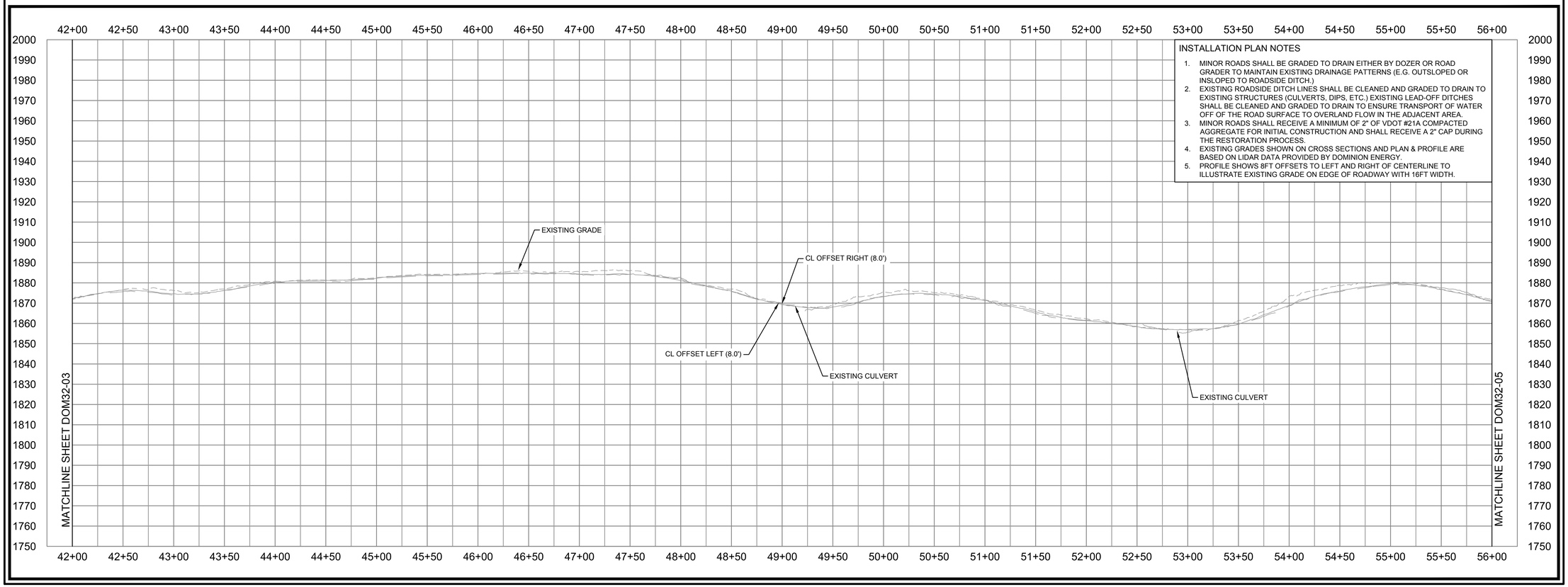
PROJECT NO. 50106442

DOM32-03

SHEET NO.



INSTALLATION PLAN



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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

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CHECKED BY ARB
DATE 05/28/2021

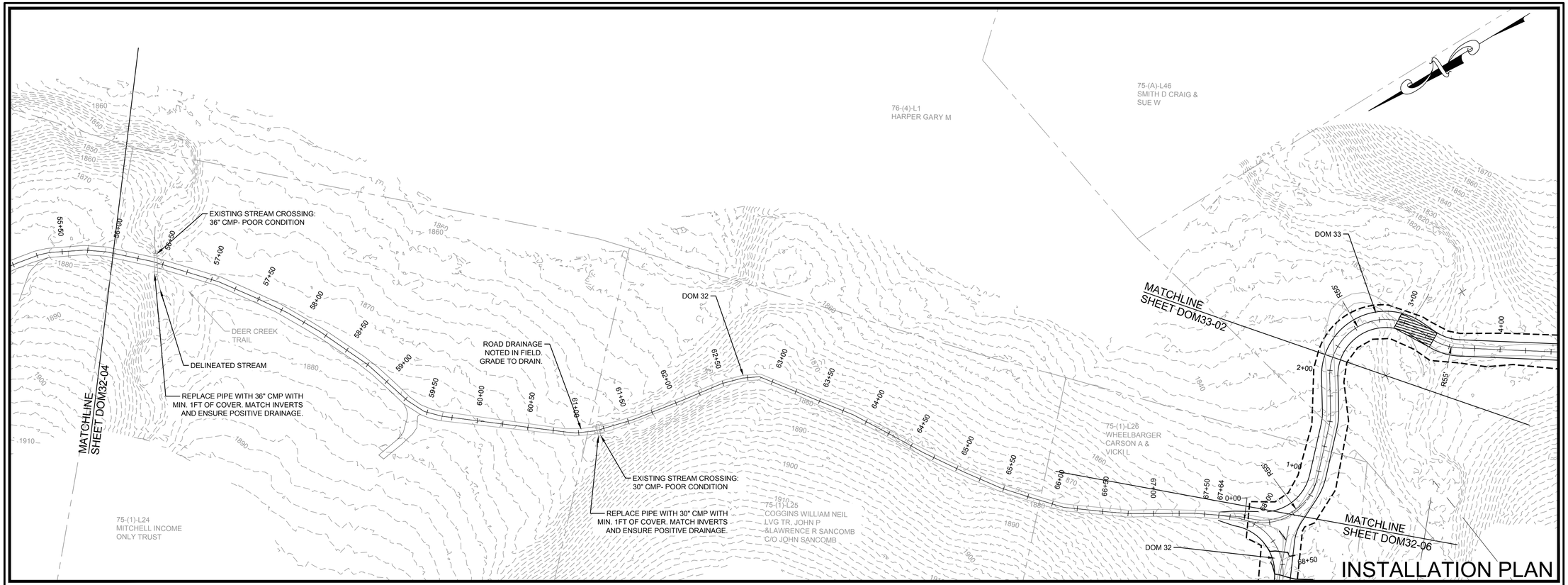
TITLE

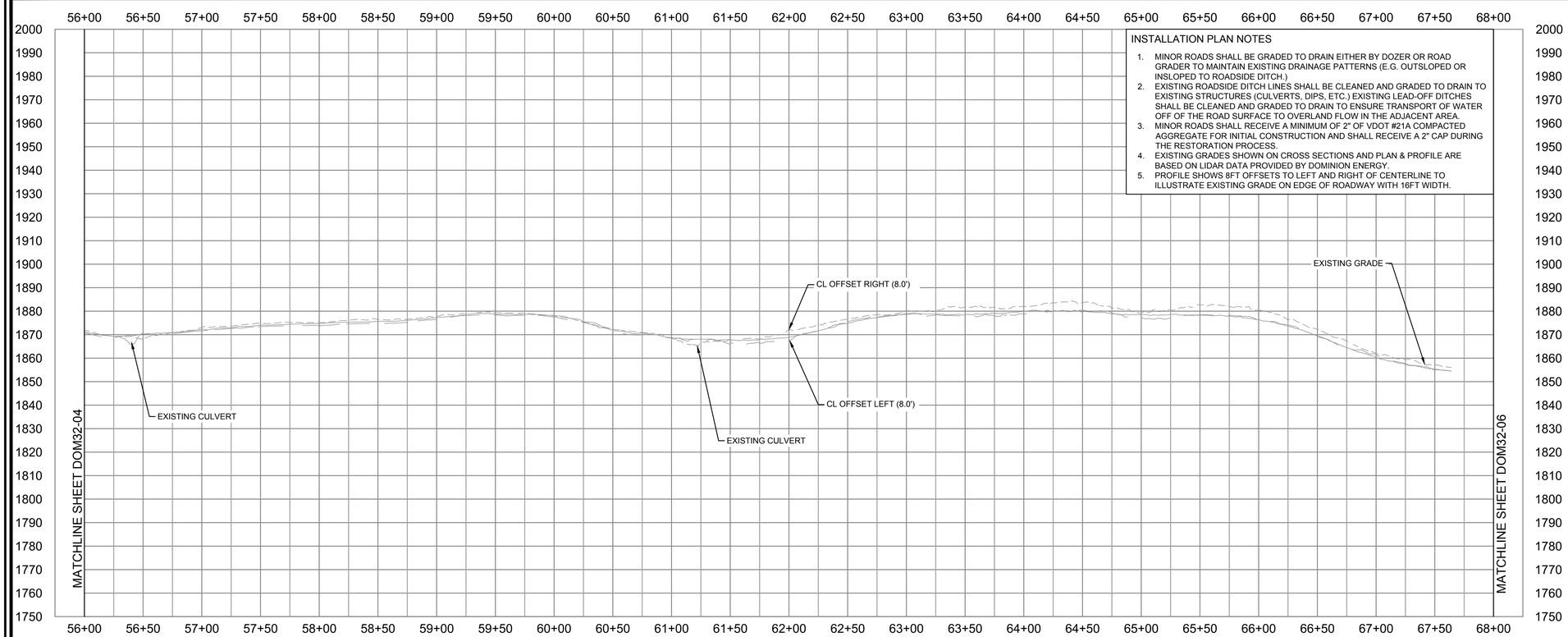
DOM 32
PLAN & PROFILE

PROJECT NO. 50106442

DOM32-04

SHEET NO.





INSTALLATION PLAN NOTES

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

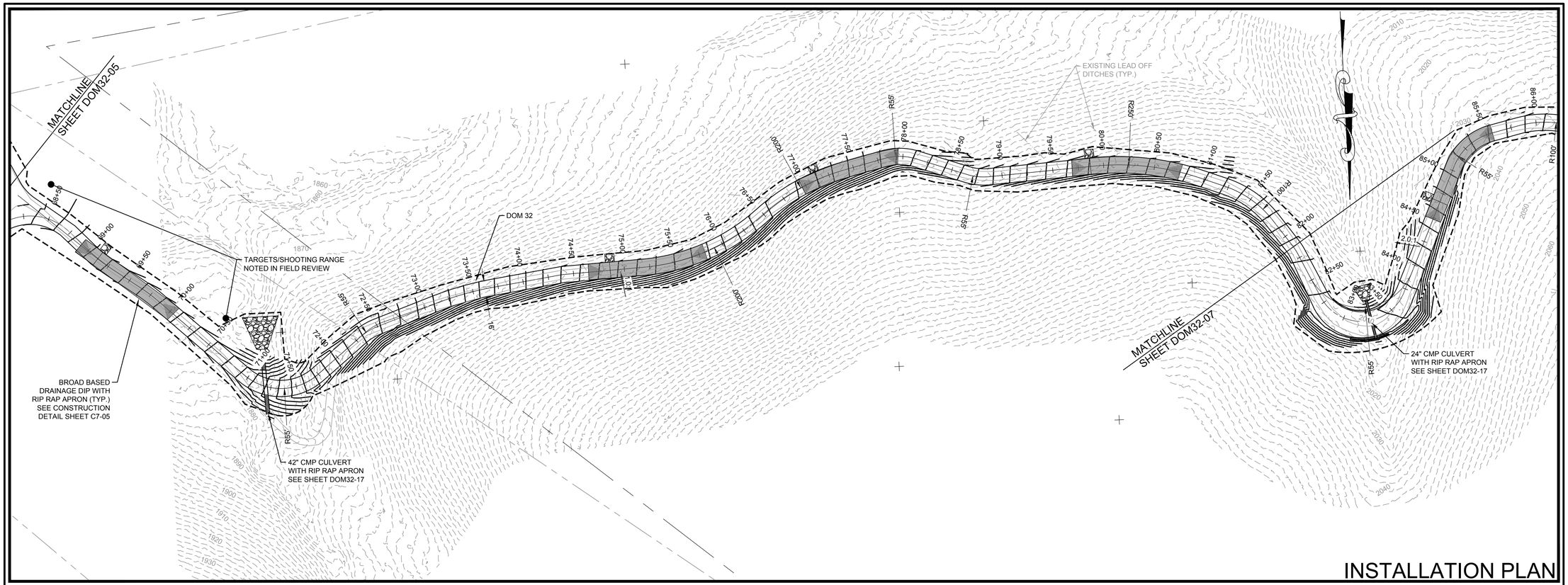
TITLE

DOM 32
PLAN & PROFILE

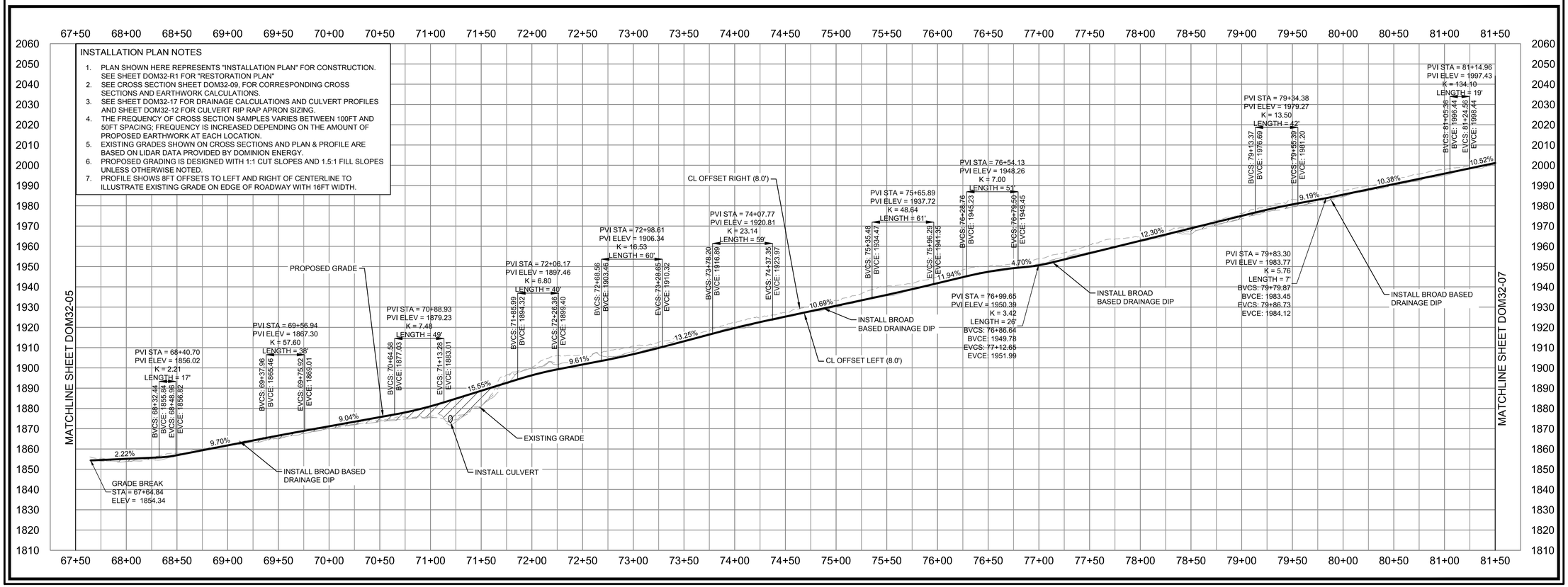
PROJECT NO. 50106442

DOM32-05

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET DOM32-R1 FOR "RESTORATION PLAN"
2. SEE CROSS SECTION SHEET DOM32-09, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
3. SEE SHEET DOM32-17 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES AND SHEET DOM32-12 FOR CULVERT RIP RAP APRON SIZING.
4. THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.
5. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
6. PROPOSED GRADING IS DESIGNED WITH 1:1 CUT SLOPES AND 1.5:1 FILL SLOPES UNLESS OTHERWISE NOTED.
7. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.

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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY LAL
APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

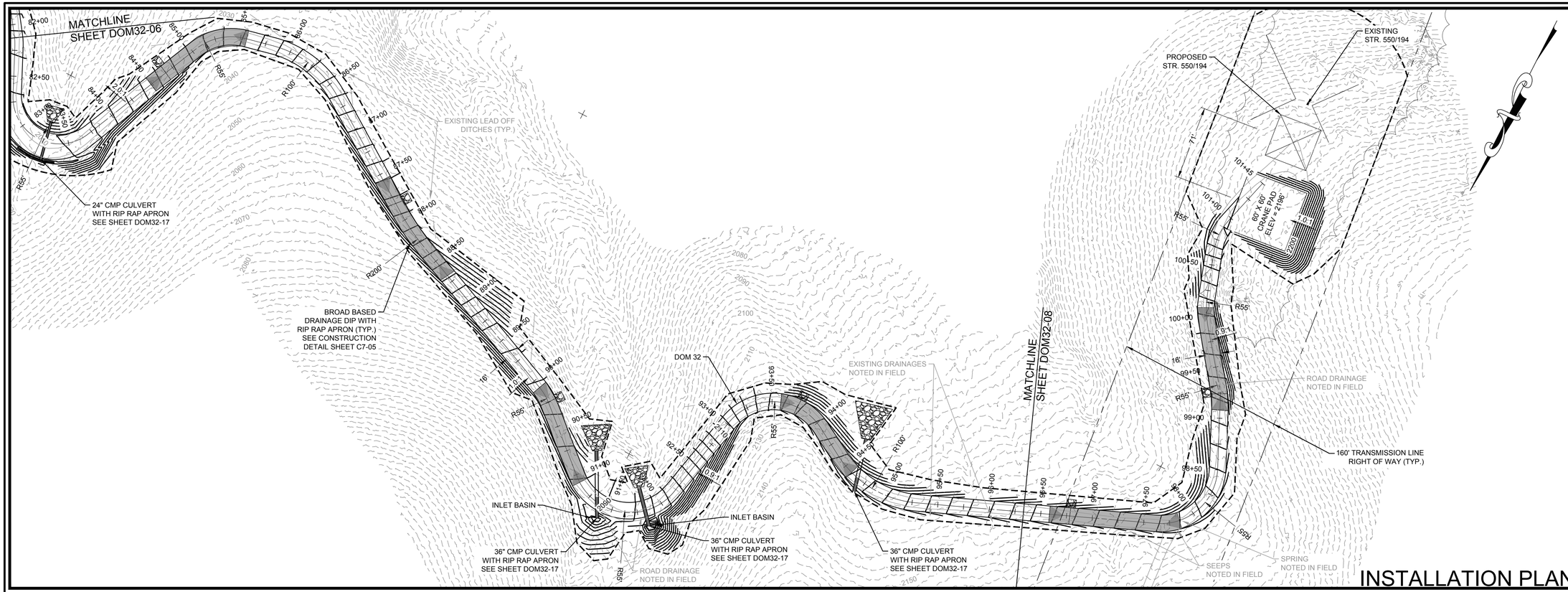
TITLE

DOM 32
PLAN & PROFILE

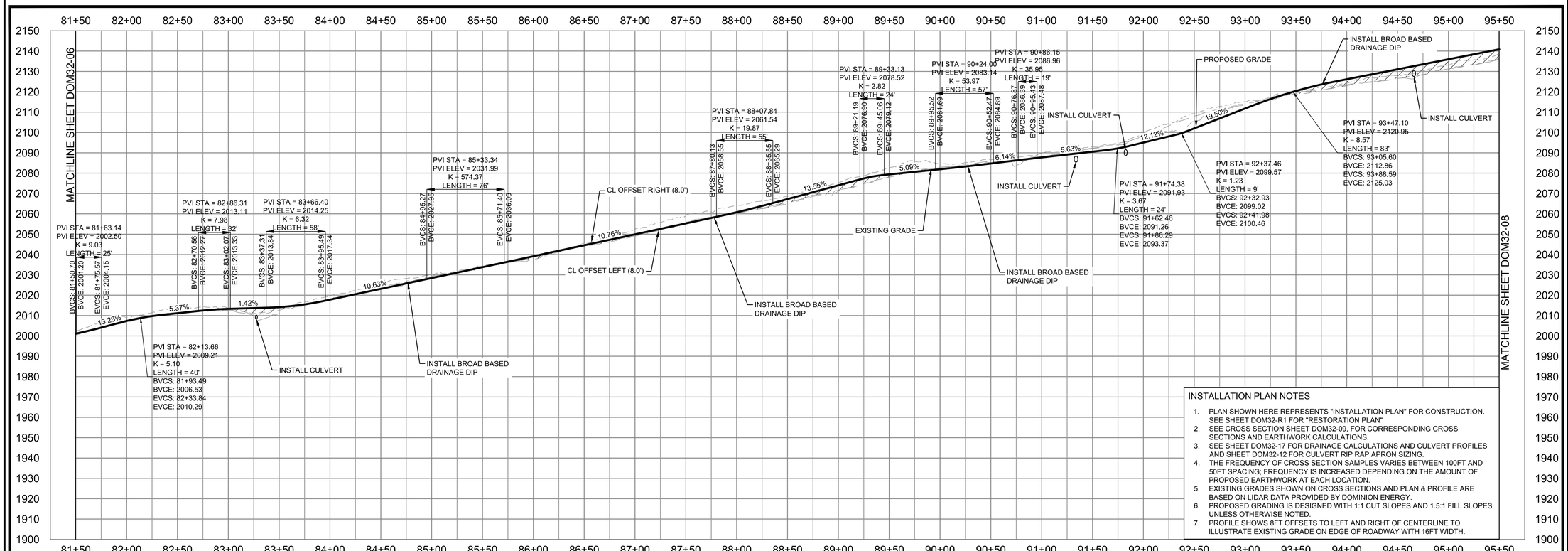
PROJECT NO. 50106442

DOM32-06

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

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2. SEE CROSS SECTION SHEET DOM32-09, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
3. SEE SHEET DOM32-17 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES AND SHEET DOM32-12 FOR CULVERT RIP RAP APRON SIZING.
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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
HORIZONTAL SCALE 0' 50' 100'
VERTICAL SCALE 0' 25' 50'

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY LAL
APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

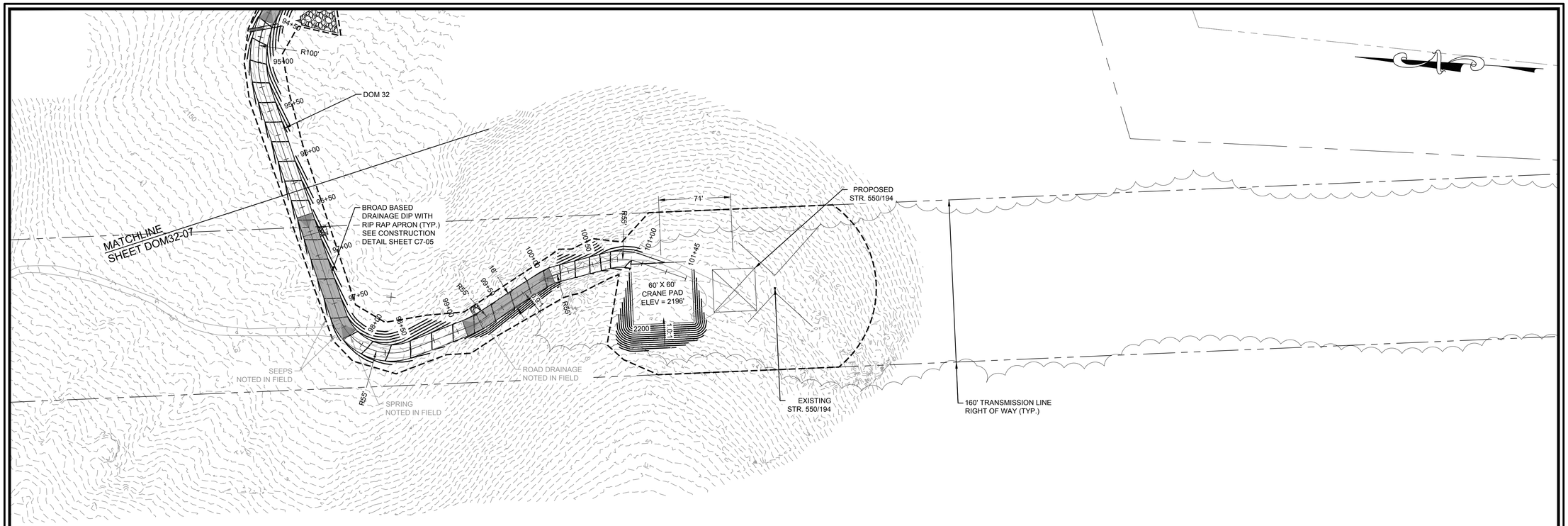
TITLE

DOM 32
PLAN & PROFILE

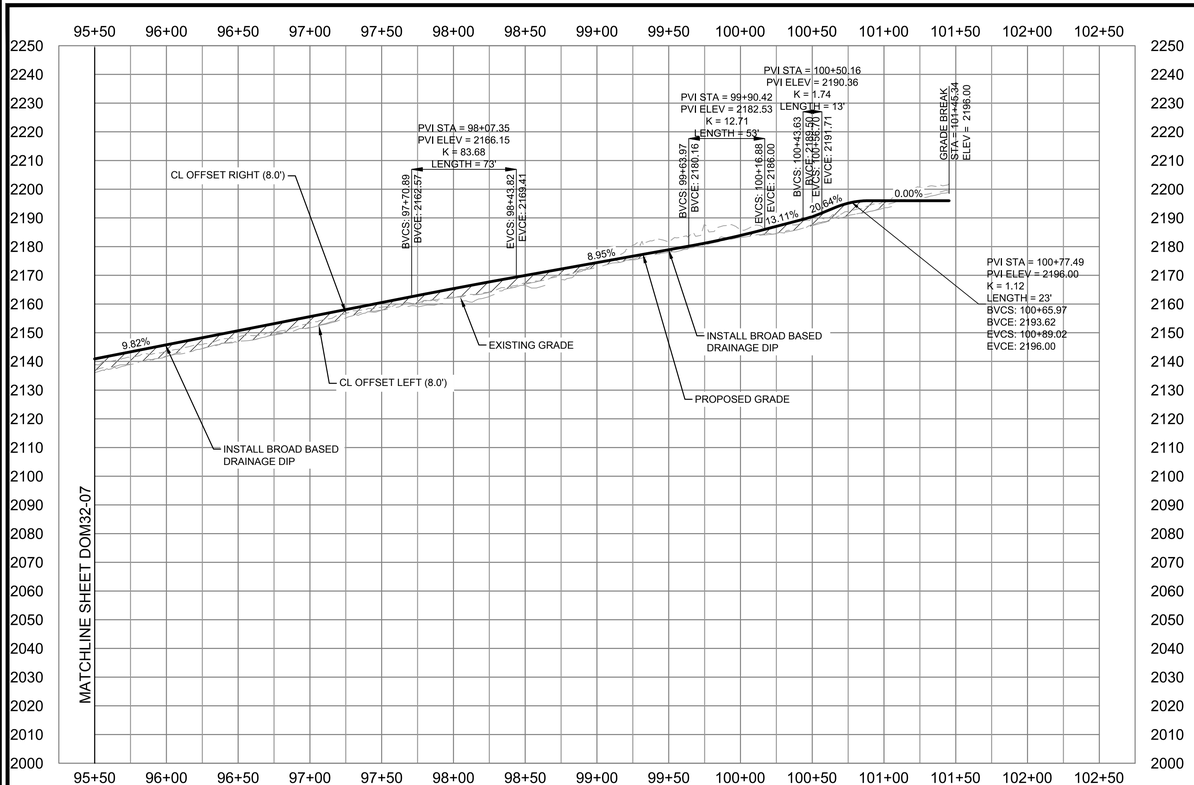
PROJECT NO. 50106442

DOM32-07

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

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2. SEE CROSS SECTION SHEET DOM32-09, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
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PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

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CHECKED BY ARB
DATE 05/28/2021

TITLE

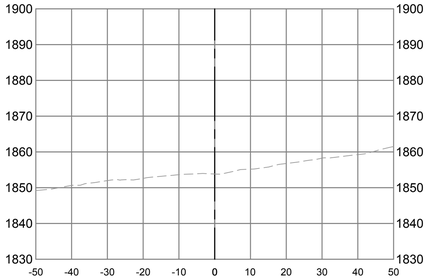
DOM 32
PLAN & PROFILE

PROJECT NO. 50106442

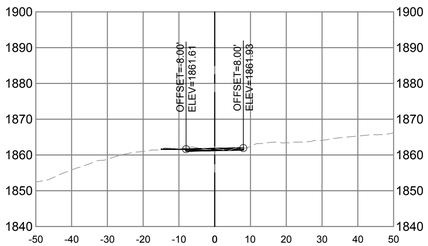
DOM32-08

SHEET NO.

ROAD CE 50 DOM 32 #1, STATION 68+00.0



ROAD CE 50 DOM 32 #2, STATION 69+00.0



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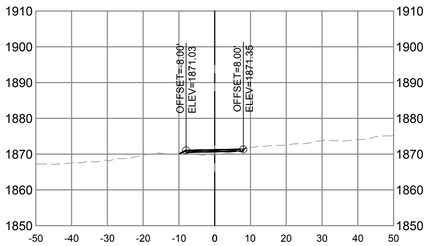

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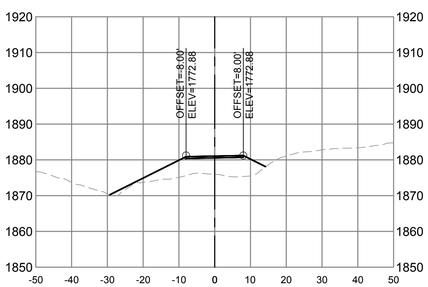

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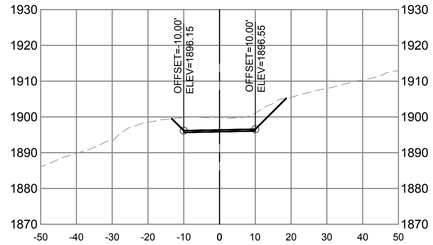

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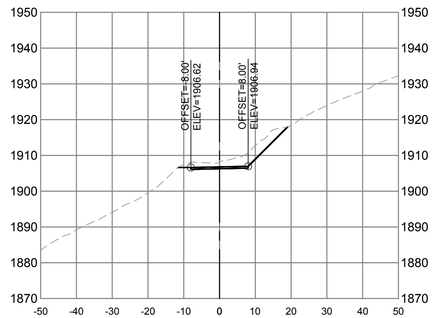
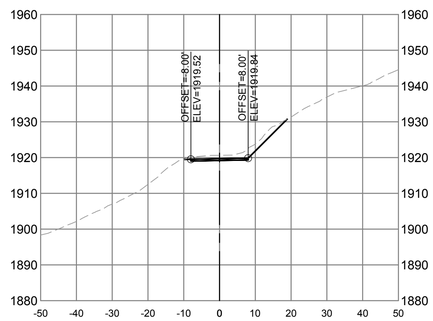


ROAD CE 50 DOM 32 #7, STATION 74+00.0



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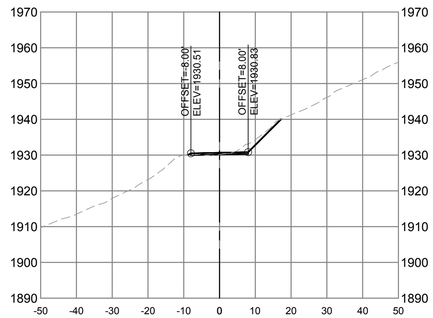
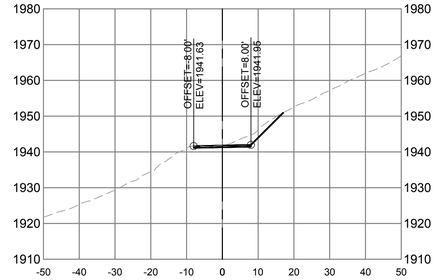


ROAD CE 50 DOM 32 #9, STATION 76+00.0



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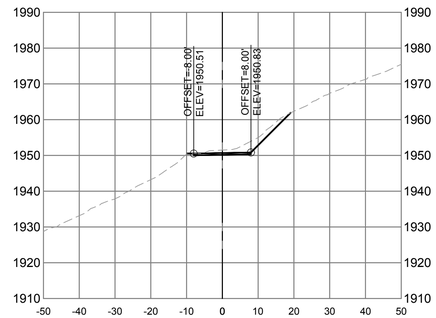

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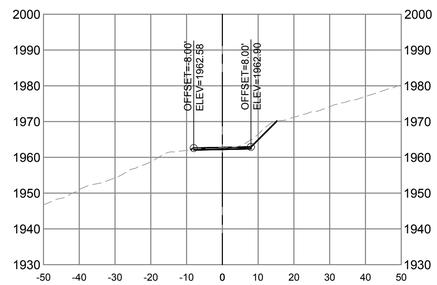

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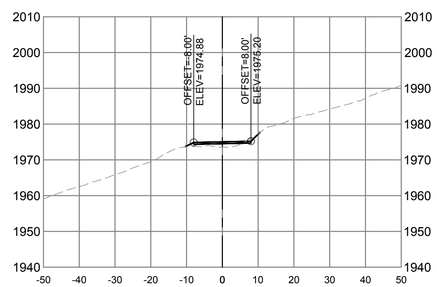

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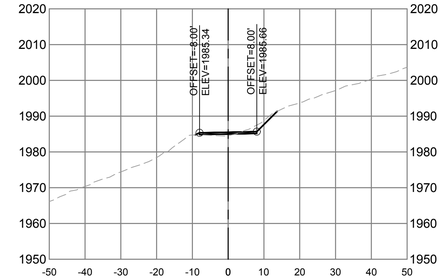

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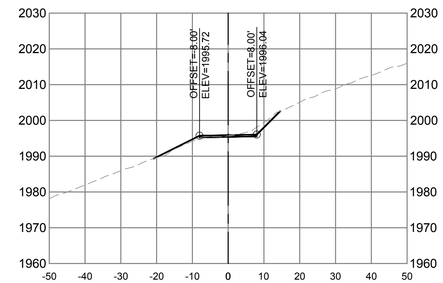

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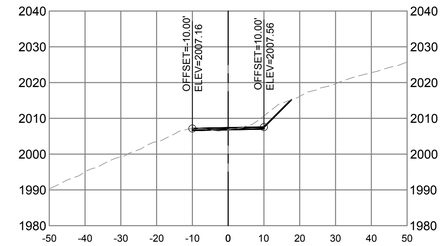

DOM 32 INSTALLATION PLAN EARTHWORK CALCULATIONS

	CUT (CY)	FILL (CY)	NET (CY)
DOM 32 ROAD IMPROVEMENT	3063	3259	196 (FILL)
INSTALL DOM 32 CRANE PADS	1924	9	1915 (CUT)
INSTALLATION TOTALS	4987	3268	1719 (CUT)

NOTES

1. SEE PLAN & PROFILE SHEETS, DOM32-01-DOM32-08 FOR CORRESPONDING CROSS SECTION NUMBER AND ROAD STATION.
2. CROSS SECTIONS SHOWN ON PLANS ARE FOR PURPOSES OF DESIGN, CONSTRUCTION, AND REVIEW.
3. THE ABOVE CUT/FILL SUMMARY TABLE IS NOT DEPENDENT ON CROSS SECTION FREQUENCY (I.E. AVERAGE END AREA METHOD). THE CUT/FILL SUMMARY TABLE IS DEVELOPED BASED ON 3D MODELING (COMPOSITE VOLUMES) OF THE EXISTING AND PROPOSED GRADES.
4. THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.
5. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
6. EXCESS MATERIALS SHALL BE STORED IN TEMPORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE50.
7. SEE DOM32-R1 FOR RESTORATION EARTHWORK CALCULATIONS AND TOTAL CALCULATIONS.

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
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TRANSMISSION LINE REBUILD
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CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 20' 40'
HORIZONTAL SCALE
0' 20' 40'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY LAL
APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

TITLE

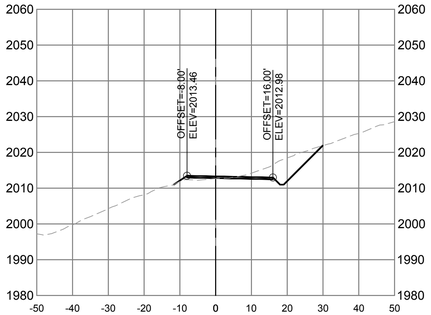
DOM 32
CROSS SECTIONS

PROJECT NO. 50106442

DOM32-09

SHEET NO.

ROAD CE 50 DOM 32 #16, STATION 83+00.0



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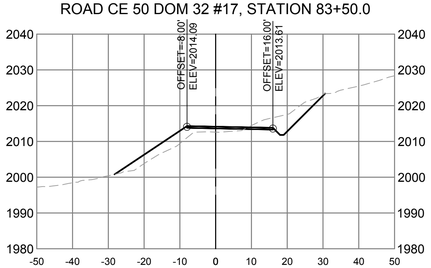

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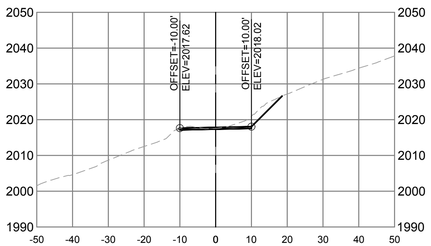

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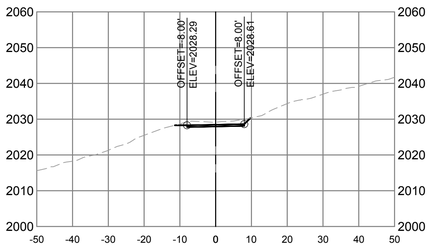

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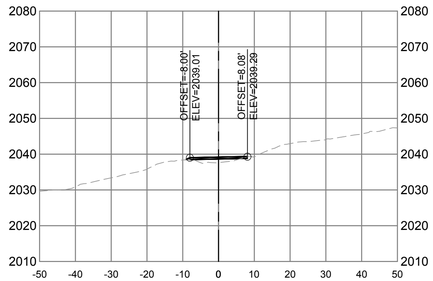
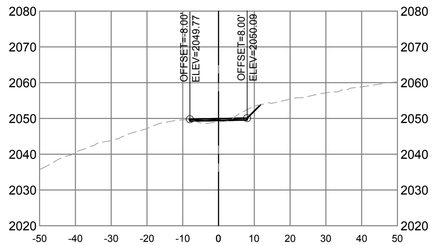


ROAD CE 50 DOM 32 #21, STATION 87+00.0



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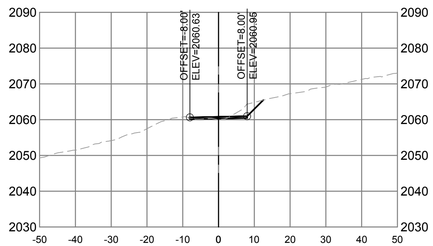
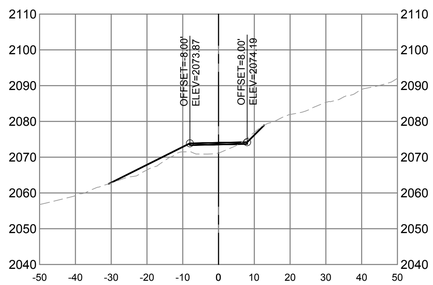


ROAD CE 50 DOM 32 #23, STATION 89+00.0



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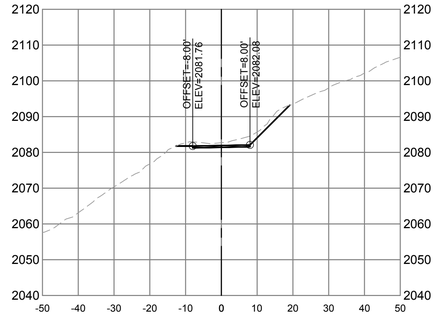

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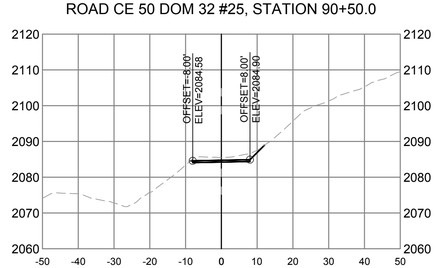

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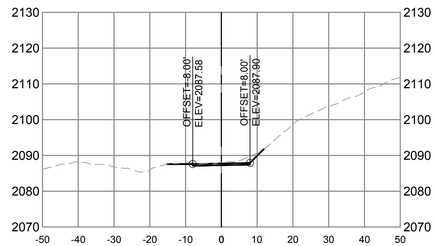

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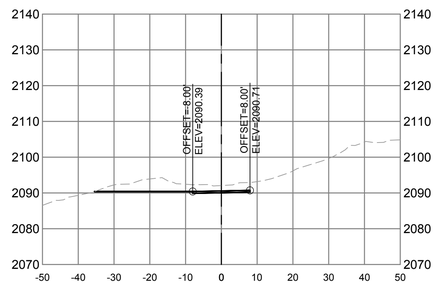

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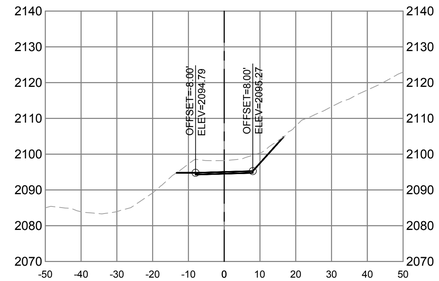

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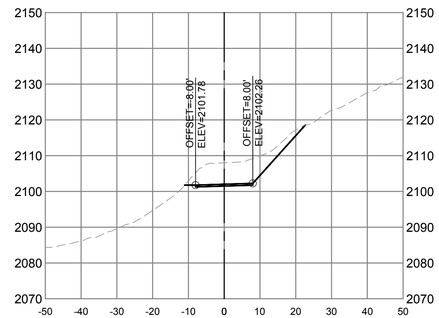

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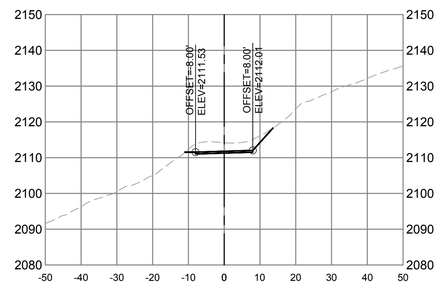

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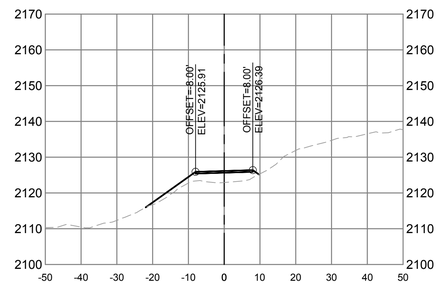

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SEAL

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SCALE
0' 20' 40'
HORIZONTAL SCALE
0' 20' 40'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

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TITLE

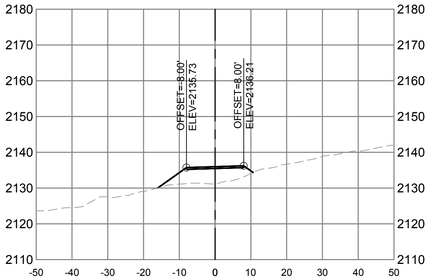
DOM 32
CROSS SECTIONS

PROJECT NO. 50106442

DOM32-10

SHEET NO.

ROAD CE 50 DOM 32 #32, STATION 95+00.0



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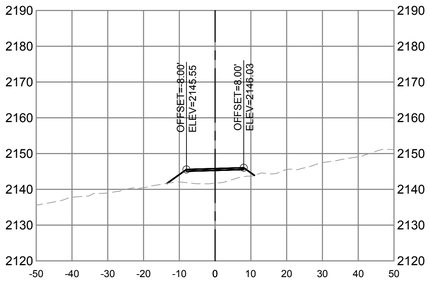

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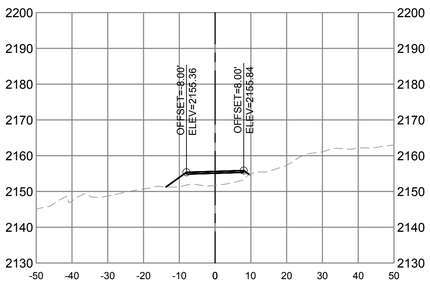

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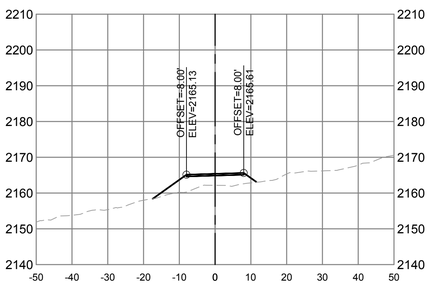

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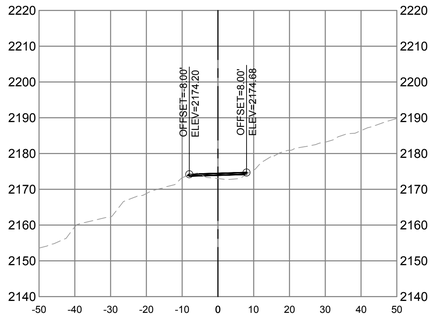

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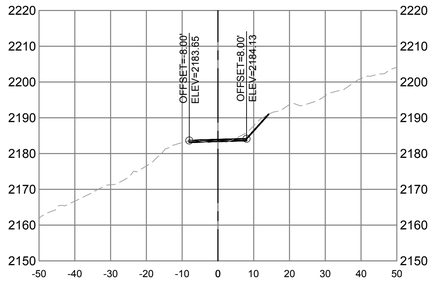

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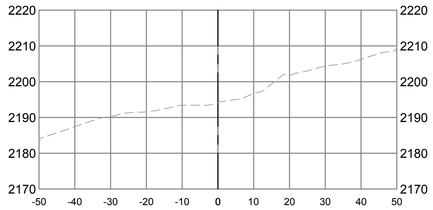

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SCALE
0' 20' 40'
HORIZONTAL SCALE
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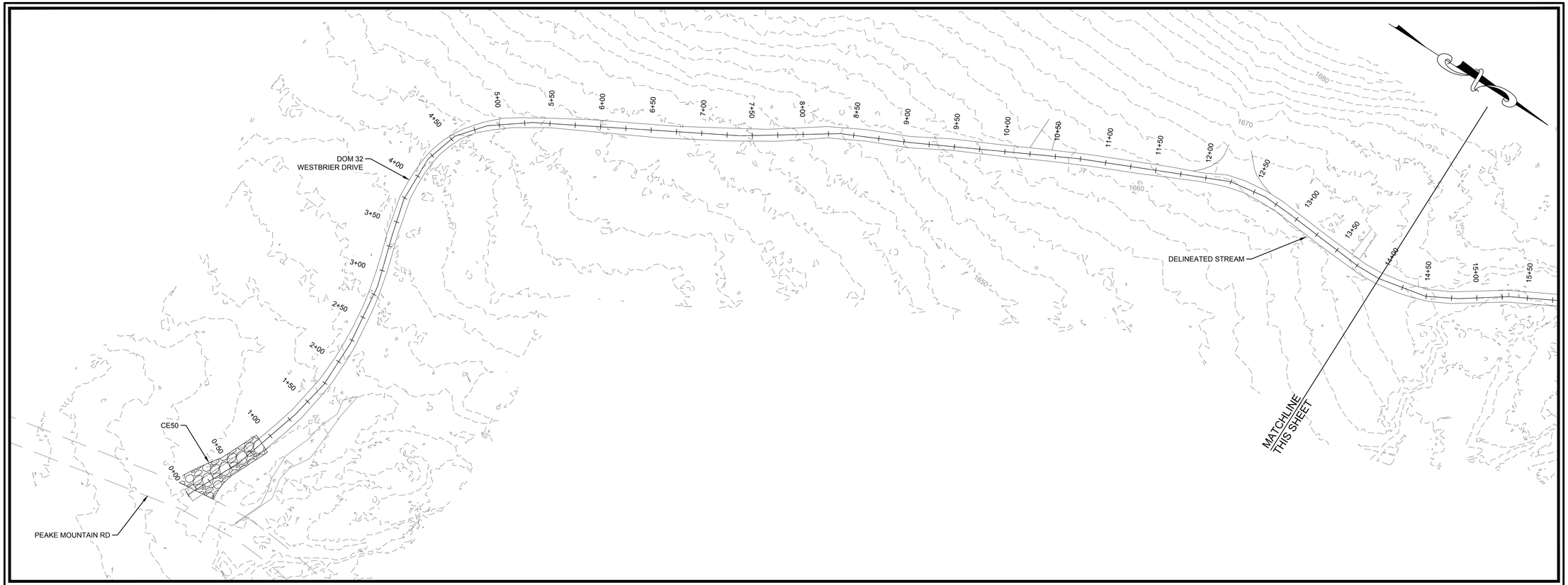
TITLE

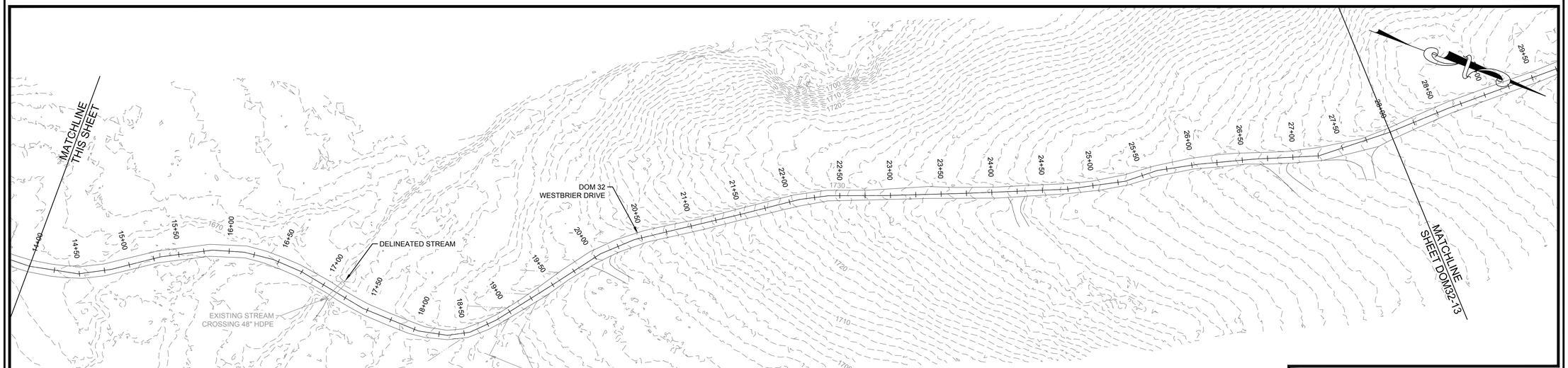
DOM 32
CROSS SECTIONS

PROJECT NO. 50106442

DOM32-11

SHEET NO.





RIPRAP APRON SIZING

OUTLET NUMBER	FLOW (CFS)	D_50 (IN)	BLANKET THICKNESS (IN)	LENGTH (FT)	WIDTH (FT)	AGGREGATE
DA 1 CULVERT	119.94	13	30	32	35.5	VDOT CLASS 1
DA 2 CULVERT	24.79	6	24	16	18	VDOT CLASS A1
DA 3 CULVERT	71.42	9	24	25	28	VDOT CLASS A1
DA 4 CULVERT	50.88	7	24	20	23	VDOT CLASS A1
DA 5 CULVERT	110.14	14	30	34	37	VDOT CLASS 1

NOTES

1. SEE SHEET DOM32-17 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES
2. SEE SHEET DOM32-12 FOR CULVERT RIP RAP APRON SIZING.
3. SEE SHEET DOM32-16 FOR DRAINAGE AREA MAP
4. SEE SHEET C7-05 FOR TYPICAL SECTION FOR ROAD AND DITCH AND C7-06 TYPICAL GWNF CONSTRUCTION DETAILS
5. SEE SHEET 2 THROUGH 6W FOR EROSION AND SEDIMENT CONTROL NARRATIVE, NOTES, AND DETAILS
6. DITCHES SHALL BE LINED WITH RIPRAP IF LONGITUDINAL SLOPES ARE GREATER THAN 8%.

E&SC LEGEND

- PROPOSED 12" SILT SOCK
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TSS — TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

Dewberry

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SEAL

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SCALE

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HORIZONTAL SCALE

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DATE 05/28/2021

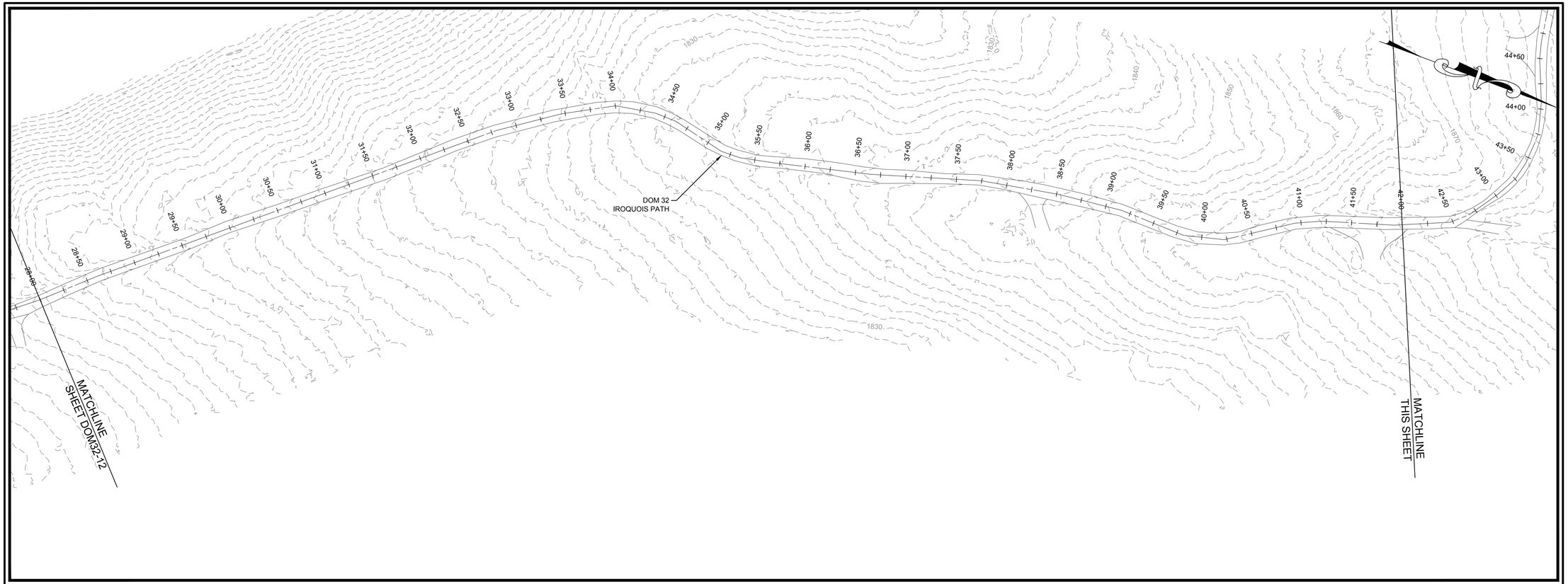
TITLE

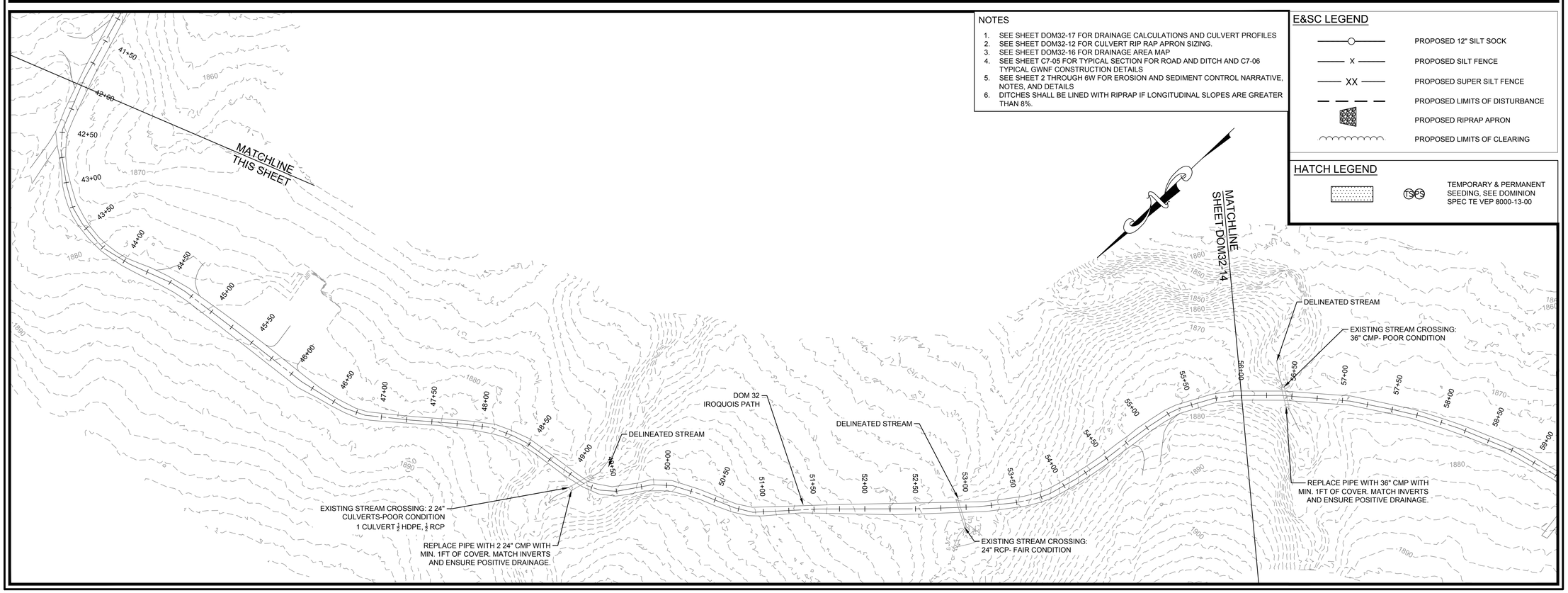
DOM 32
E&SC PLAN

PROJECT NO. 50106442

DOM32-12

SHEET NO.





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3. SEE SHEET DOM32-16 FOR DRAINAGE AREA MAP
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E&SC LEGEND

- PROPOSED 12" SILT SOCK
- X — PROPOSED SILT FENCE
- XX — PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TS&S — TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

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CHECKED BY	ARB
DATE	05/28/2021

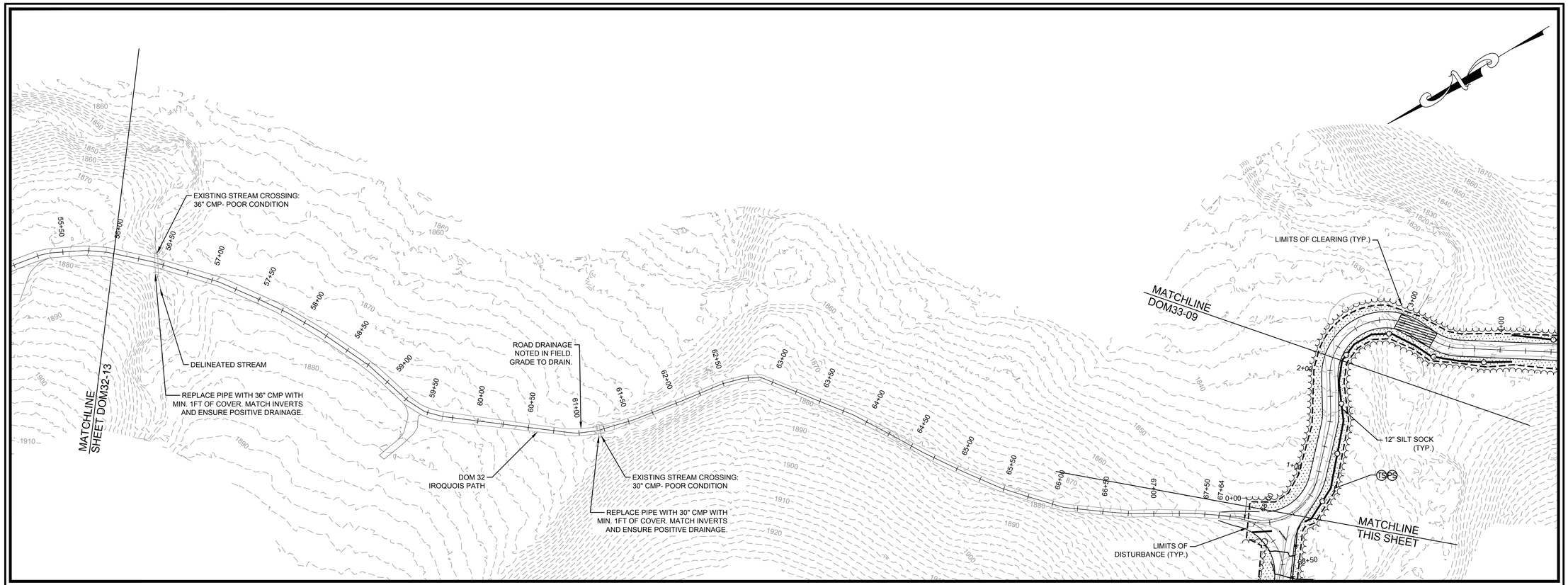
TITLE

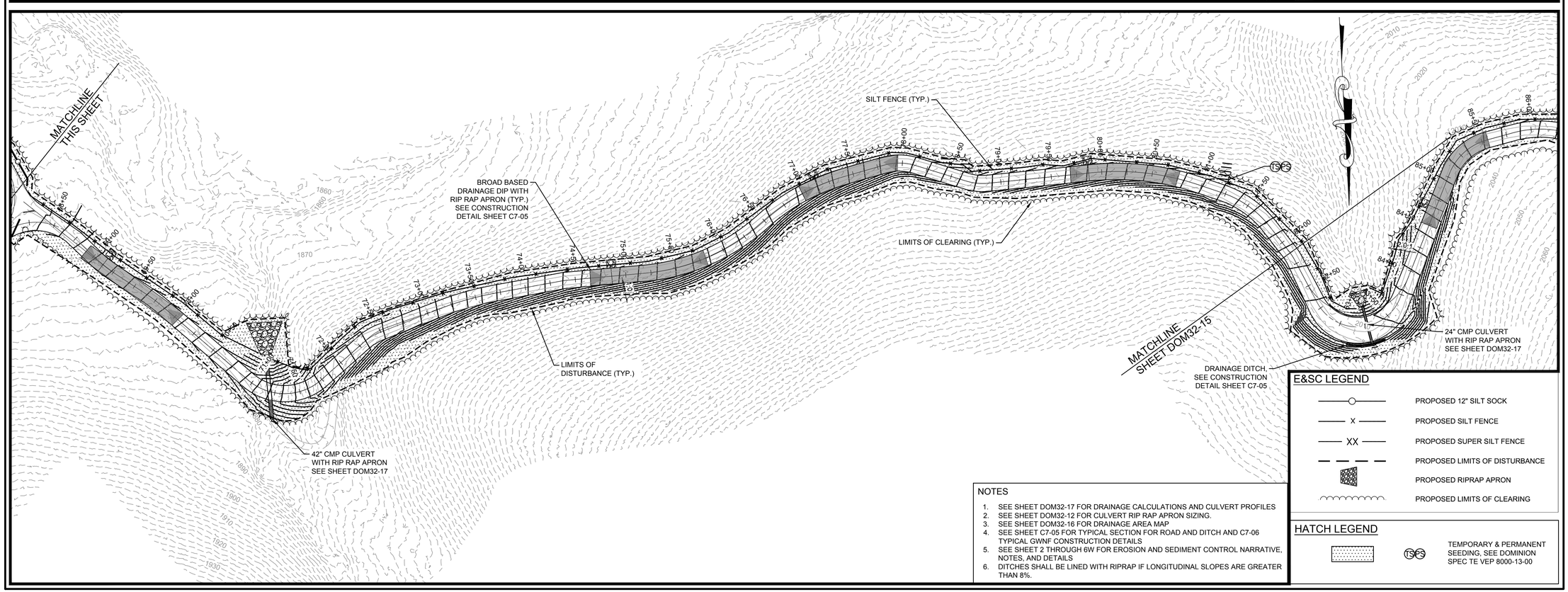
DOM 32
E&SC PLAN

PROJECT NO. 50106442

DOM32-13

SHEET NO.





NOTES

1. SEE SHEET DOM32-17 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES
2. SEE SHEET DOM32-12 FOR CULVERT RIP RAP APRON SIZING.
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E&SC LEGEND

- PROPOSED 12" SILT SOCK
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TSES — TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

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APPROVED BY	
CHECKED BY	ARB
DATE	05/28/2021

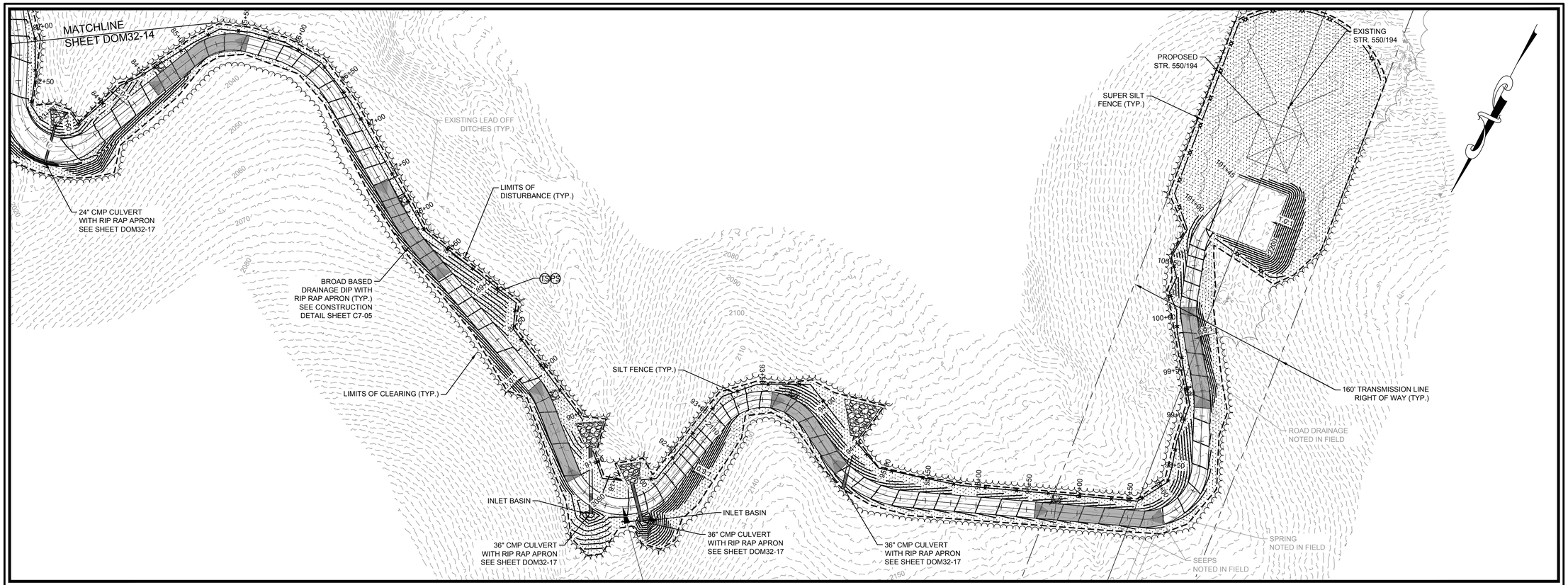
TITLE

DOM 32
E&SC PLAN

PROJECT NO. 50106442

DOM32-14

SHEET NO.



NOTES

1. SEE SHEET DOM32-17 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES
2. SEE SHEET DOM32-12 FOR CULVERT RIP RAP APRON SIZING.
3. SEE SHEET DOM32-16 FOR DRAINAGE AREA MAP
4. SEE SHEET C7-05 FOR TYPICAL SECTION FOR ROAD AND DITCH AND C7-06 TYPICAL GWNF CONSTRUCTION DETAILS
5. SEE SHEET 2 THROUGH 6W FOR EROSION AND SEDIMENT CONTROL NARRATIVE, NOTES, AND DETAILS
6. DITCHES SHALL BE LINED WITH RIPRAP IF LONGITUDINAL SLOPES ARE GREATER THAN 8%.

E&SC LEGEND

- PROPOSED 12" SILT SOCK
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TS&S — TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
804.290.7928 (FAX)

TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	5/28/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY LAL
APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

TITLE

DOM 32
E&SC PLAN

PROJECT NO. 50106442

DOM32-15

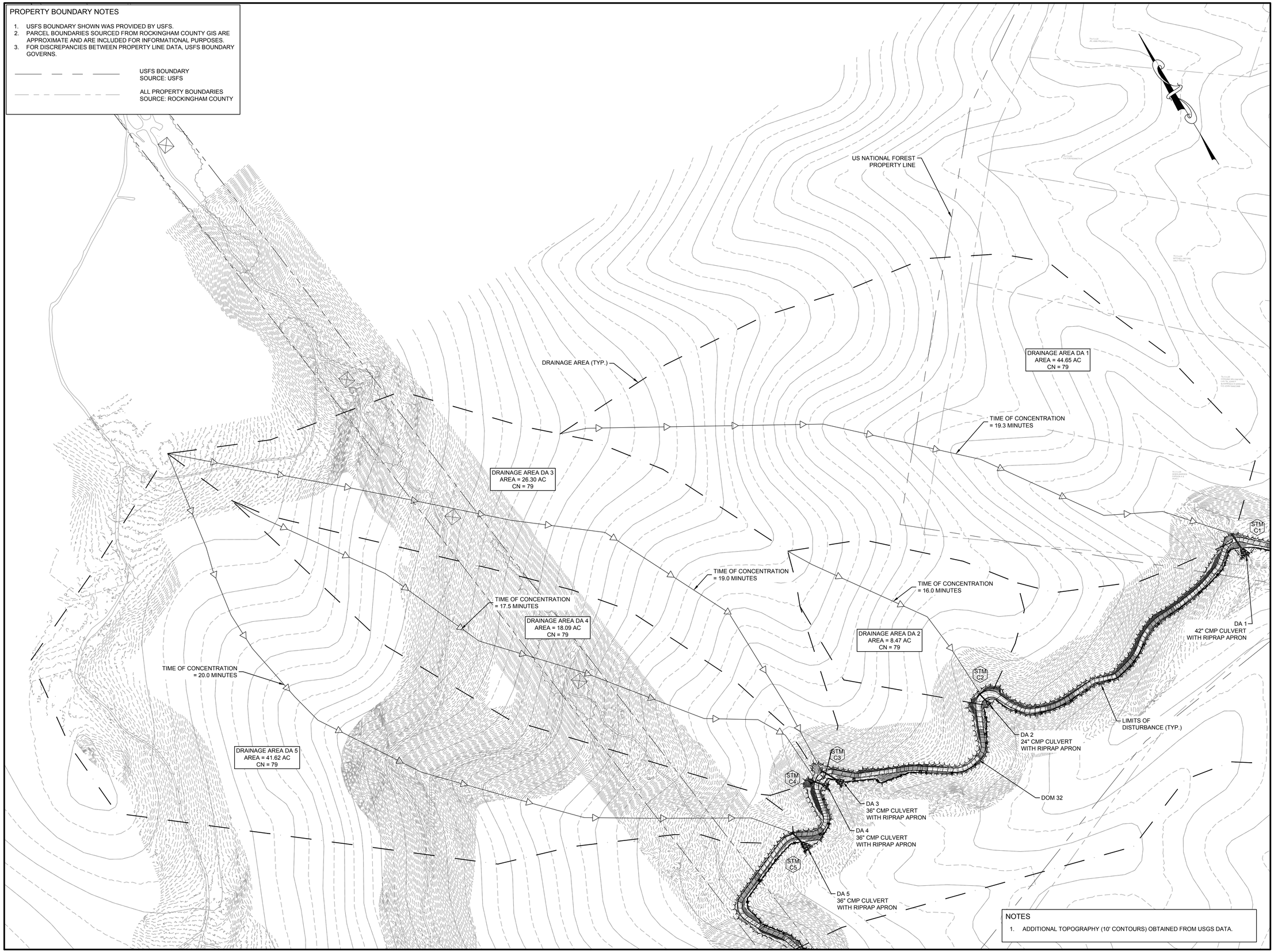
SHEET NO.

PROPERTY BOUNDARY NOTES

1. USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
2. PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
3. FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY



NOTES

1. ADDITIONAL TOPOGRAPHY (10' CONTOURS) OBTAINED FROM USGS DATA.

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Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
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WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

0' 100' 200'
HORIZONTAL SCALE

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TITLE

DOM 32
DRAINAGE AREA

PROJECT NO. 50106442

DOM32-16

SHEET NO.

LAL

TL 550 PHASE 3
Rockingham ZONE-1 NOAA-B County, Virginia

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow and Peak Time (hr) by Rainfall Return Period 10-Yr (cfs) (hr)	25-Yr (cfs) (hr)
SUBAREAS		
DOM 32-DA1	90.26 12.25	119.94 12.23
DOM 32-DA2	18.66 12.21	24.79 12.21
DOM 32-DA3	53.54 12.23	71.42 12.24
DOM 32-DA4	38.25 12.22	50.88 12.22
DOM 32-DA5	82.88 12.25	110.14 12.24
REACHES		
OUTLET	282.42	375.97

LAL

TL 550 PHASE 3
Rockingham ZONE-1 NOAA-B County, Virginia

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
DOM 32-DA1	Woods - grass combination	(good)	D	44.654	79
	Total Area / Weighted Curve Number			44.65	79
				=====	==
DOM 32-DA2	Woods - grass combination	(good)	D	8.474	79
	Total Area / Weighted Curve Number			8.47	79
				====	==
DOM 32-DA3	Gravel (w/ right-of-way)		D	.446	91
	Woods - grass combination	(good)	D	25.858	79
	Total Area / Weighted Curve Number			26.3	79
				====	==
DOM 32-DA4	Gravel (w/ right-of-way)		D	.278	91
	Woods - grass combination	(good)	D	17.811	79
	Total Area / Weighted Curve Number			18.09	79
				=====	==
DOM 32-DA5	Gravel (w/ right-of-way)		D	1.014	91
	Woods - grass combination	(good)	D	40.609	79
	Total Area / Weighted Curve Number			41.62	79
				=====	==

LAL

TL 550 PHASE 3
Rockingham ZONE-1 NOAA-B County, Virginia

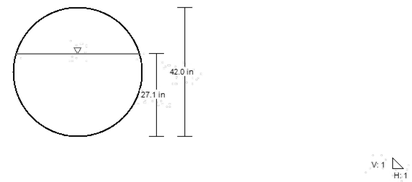
Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
DOM 32-DA1							
SHEET	100	0.2557	0.800				0.240
SHALLOW	2411	0.2557	0.050				0.082
				Time of Concentration			.322
							========
DOM 32-DA2							
SHEET	100	0.2500	0.800				0.243
SHALLOW	817	0.3549	0.050				0.024
				Time of Concentration			.267
							========
DOM 32-DA3							
SHEET	100	0.2888	0.800				0.229
SHALLOW	2725	0.2888	0.050				0.087
				Time of Concentration			.316
							========
DOM 32-DA4							
SHEET	100	0.3169	0.800				0.221
SHALLOW	2318	0.3169	0.050				0.071
				Time of Concentration			.292
							========
DOM 32-DA5							
SHEET	100	0.2632	0.800				0.238
SHALLOW	2835	0.2632	0.050				0.095
				Time of Concentration			.333
							========

Cross Section for DA 1-CULVERT

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

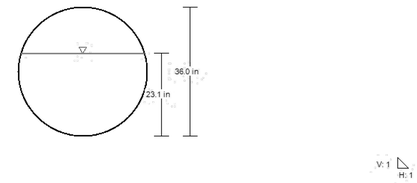
Input Data	
Roughness Coefficient	0.024
Channel Slope	8.680 %
Normal Depth	27.1 in
Diameter	42.0 in
Discharge	119.94 cfs



Cross Section for DA 4-CULVERT

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

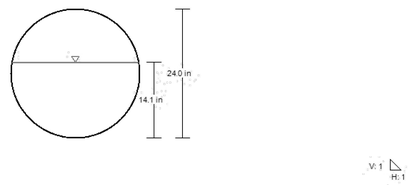
Input Data	
Roughness Coefficient	0.024
Channel Slope	3.580 %
Normal Depth	23.1 in
Diameter	36.0 in
Discharge	50.88 cfs



Cross Section for DA 2-CULVERT

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

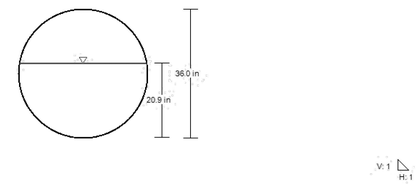
Input Data	
Roughness Coefficient	0.024
Channel Slope	9.680 %
Normal Depth	14.1 in
Diameter	24.0 in
Discharge	24.79 cfs



Cross Section for DA 5-CULVERT

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

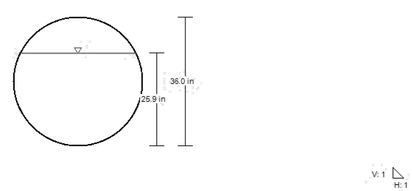
Input Data	
Roughness Coefficient	0.024
Channel Slope	22.650 %
Normal Depth	20.9 in
Diameter	36.0 in
Discharge	110.14 cfs



Cross Section for DA 3-CULVERT

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.024
Channel Slope	5.220 %
Normal Depth	25.9 in
Diameter	36.0 in
Discharge	71.42 cfs



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4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
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SCALE

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CHECKED BY ARB
DATE 05/28/2021

TITLE

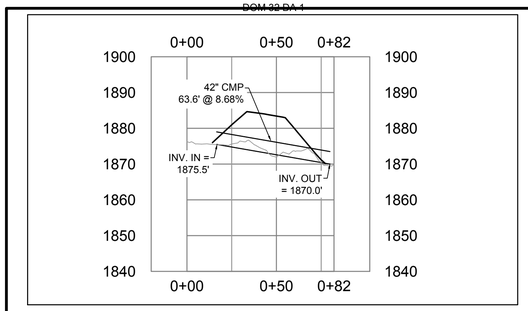
DOM 32
DRAINAGE CALCS

PROJECT NO. 50106442

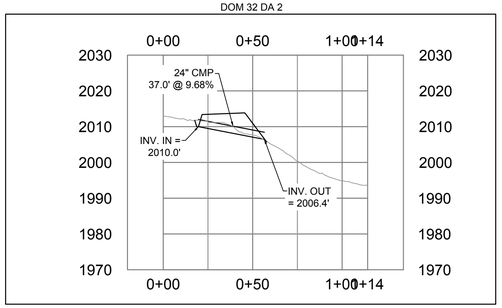
DOM32-17

SHEET NO.

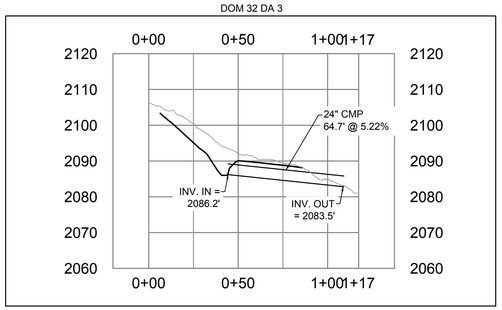
DOM 32 DA 1



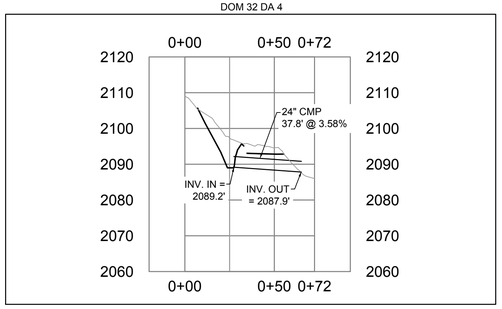
DOM 32 DA 2



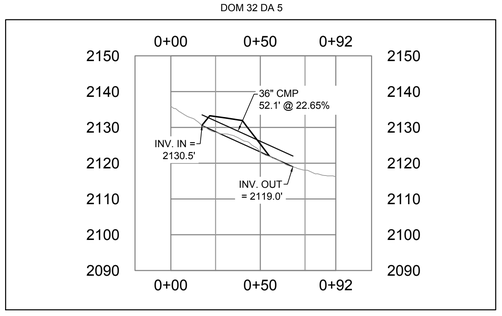
DOM 32 DA 3

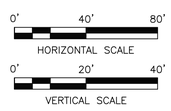


DOM 32 DA 4



DOM 32 DA 5





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4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

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SCALE

No.	DATE	BY	Description
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REVISIONS

DRAWN BY LAL
APPROVED BY
CHECKED BY ARB
DATE 05/28/2021

TITLE

DOM 32
DRAINAGE CALCS

PROJECT NO. 50106442

DOM32-18

SHEET NO.

PROPERTY BOUNDARY NOTES

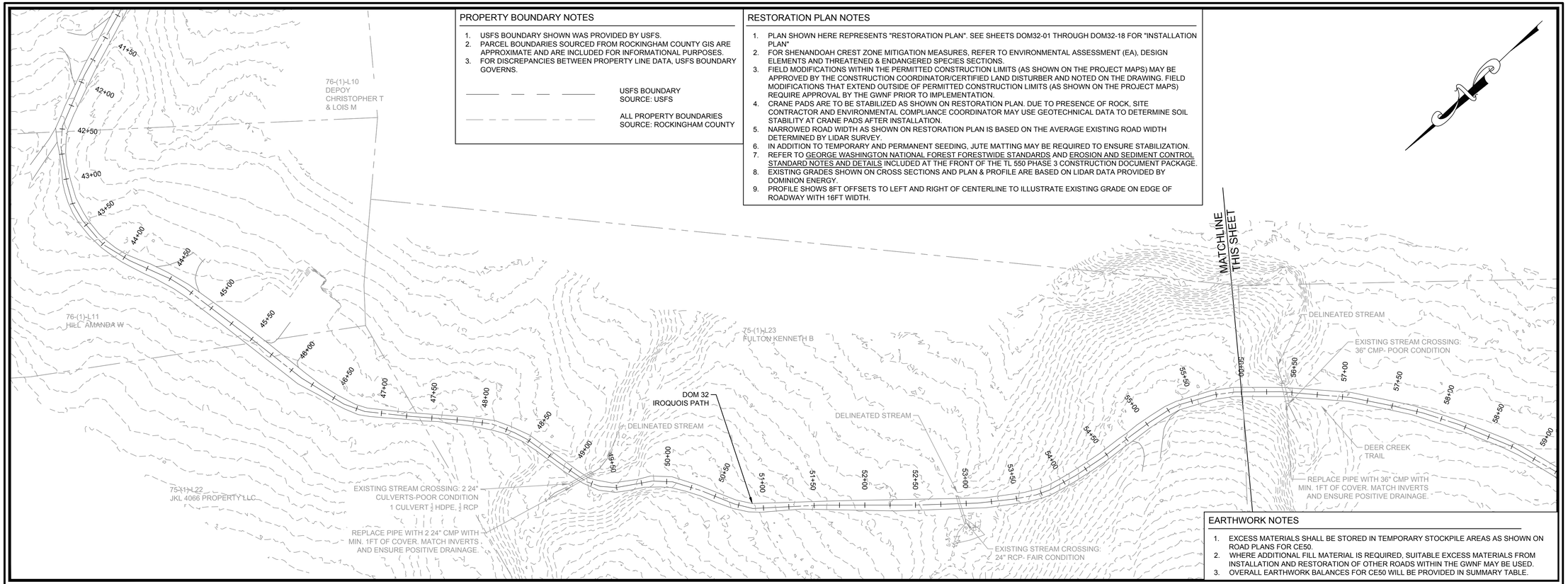
1. USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
2. PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
3. FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY

RESTORATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEETS DOM32-01 THROUGH DOM32-18 FOR "INSTALLATION PLAN"
2. FOR SHENANDOAH CREST ZONE MITIGATION MEASURES, REFER TO ENVIRONMENTAL ASSESSMENT (EA), DESIGN ELEMENTS AND THREATENED & ENDANGERED SPECIES SECTIONS.
3. FIELD MODIFICATIONS WITHIN THE PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATOR/CERTIFIED LAND DISTURBER AND NOTED ON THE DRAWING. FIELD MODIFICATIONS THAT EXTEND OUTSIDE OF PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) REQUIRE APPROVAL BY THE GWNF PRIOR TO IMPLEMENTATION.
4. CRANE PADS ARE TO BE STABILIZED AS SHOWN ON RESTORATION PLAN. DUE TO PRESENCE OF ROCK, SITE CONTRACTOR AND ENVIRONMENTAL COMPLIANCE COORDINATOR MAY USE GEOTECHNICAL DATA TO DETERMINE SOIL STABILITY AT CRANE PADS AFTER INSTALLATION.
5. NARROWED ROAD WIDTH AS SHOWN ON RESTORATION PLAN IS BASED ON THE AVERAGE EXISTING ROAD WIDTH DETERMINED BY LIDAR SURVEY.
6. IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
7. REFER TO GEORGE WASHINGTON NATIONAL FOREST FORESTWIDE STANDARDS AND EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS INCLUDED AT THE FRONT OF THE TL 550 PHASE 3 CONSTRUCTION DOCUMENT PACKAGE.
8. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
9. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



EARTHWORK NOTES

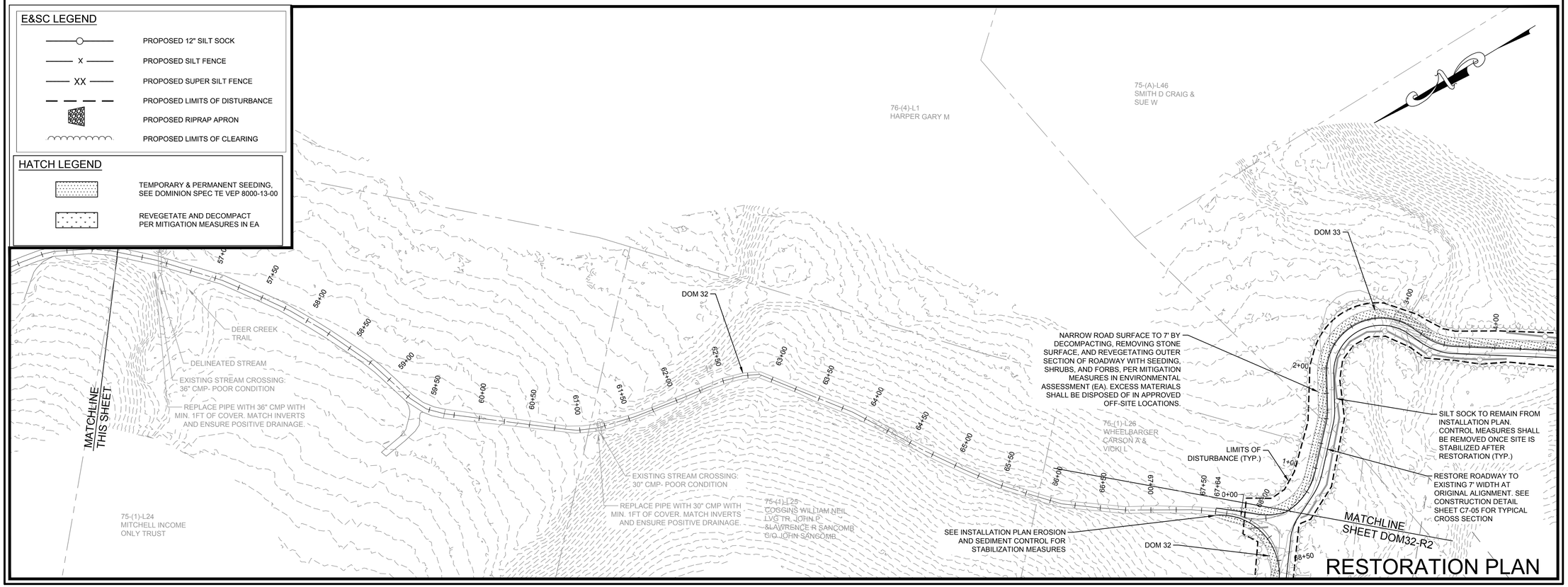
1. EXCESS MATERIALS SHALL BE STORED IN TEMPORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE50.
2. WHERE ADDITIONAL FILL MATERIAL IS REQUIRED, SUITABLE EXCESS MATERIALS FROM INSTALLATION AND RESTORATION OF OTHER ROADS WITHIN THE GWNF MAY BE USED.
3. OVERALL EARTHWORK BALANCES FOR CE50 WILL BE PROVIDED IN SUMMARY TABLE.

E&SC LEGEND

- PROPOSED 12" SILT SOCK
- X — PROPOSED SILT FENCE
- XX — PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00
- REVEGETATE AND DECOMPACT PER MITIGATION MEASURES IN EA



RESTORATION PLAN

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
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CONSTRUCTION DOCUMENTS
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WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	6/01/21	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY	LAL
APPROVED BY	
CHECKED BY	ARB
DATE	06/01/2021

TITLE

DOM 32
RESTORATION
PLAN

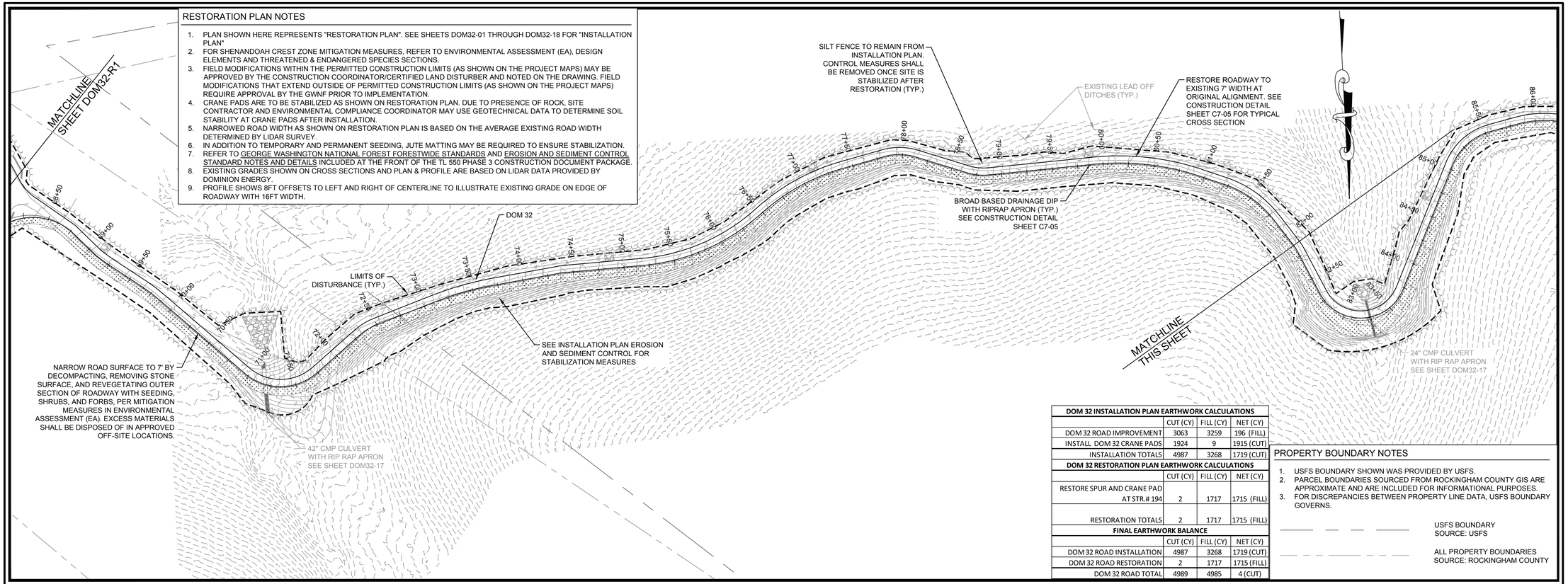
PROJECT NO. 50106442

DOM32-R1

SHEET NO.

RESTORATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEETS DOM32-01 THROUGH DOM32-18 FOR "INSTALLATION PLAN"
2. FOR SHENANDOAH CREST ZONE MITIGATION MEASURES, REFER TO ENVIRONMENTAL ASSESSMENT (EA), DESIGN ELEMENTS AND THREATENED & ENDANGERED SPECIES SECTIONS.
3. FIELD MODIFICATIONS WITHIN THE PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATOR/CERTIFIED LAND DISTURBER AND NOTED ON THE DRAWING. FIELD MODIFICATIONS THAT EXTEND OUTSIDE OF PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) REQUIRE APPROVAL BY THE GWNF PRIOR TO IMPLEMENTATION.
4. CRANE PADS ARE TO BE STABILIZED AS SHOWN ON RESTORATION PLAN. DUE TO PRESENCE OF ROCK, SITE CONTRACTOR AND ENVIRONMENTAL COMPLIANCE COORDINATOR MAY USE GEOTECHNICAL DATA TO DETERMINE SOIL STABILITY AT CRANE PADS AFTER INSTALLATION.
5. NARROWED ROAD WIDTH AS SHOWN ON RESTORATION PLAN IS BASED ON THE AVERAGE EXISTING ROAD WIDTH DETERMINED BY LIDAR SURVEY.
6. IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
7. REFER TO GEORGE WASHINGTON NATIONAL FOREST FORESTWIDE STANDARDS AND EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS INCLUDED AT THE FRONT OF THE TL 550 PHASE 3 CONSTRUCTION DOCUMENT PACKAGE.
8. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
9. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



DOM 32 INSTALLATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
DOM 32 ROAD IMPROVEMENT	3063	3259	196 (FILL)
INSTALL DOM 32 CRANE PADS	1924	9	1915 (CUT)
INSTALLATION TOTALS	4987	3268	1719 (CUT)
DOM 32 RESTORATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
RESTORE SPUR AND CRANE PAD AT STR.# 194	2	1717	1715 (FILL)
RESTORATION TOTALS	2	1717	1715 (FILL)
FINAL EARTHWORK BALANCE			
	CUT (CY)	FILL (CY)	NET (CY)
DOM 32 ROAD INSTALLATION	4987	3268	1719 (CUT)
DOM 32 ROAD RESTORATION	2	1717	1715 (FILL)
DOM 32 ROAD TOTAL	4989	4985	4 (CUT)

PROPERTY BOUNDARY NOTES

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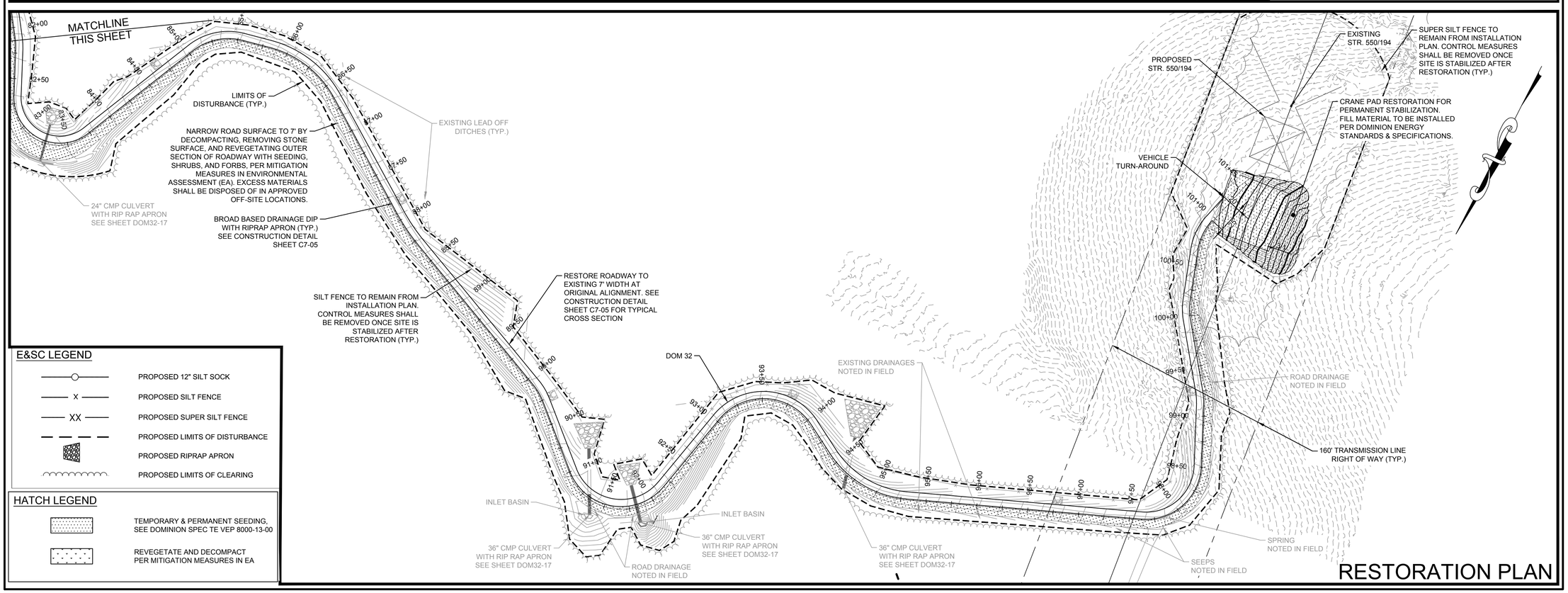
3. FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY



E&SC LEGEND

- PROPOSED 12" SILT SOCK
- X — PROPOSED SILT FENCE
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- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00
- REVEGETATE AND DECOMPACT PER MITIGATION MEASURES IN EA

RESTORATION PLAN

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CHECKED BY ARB
DATE 06/01/2021

TITLE
DOM 32 RESTORATION PLAN

PROJECT NO. 50106442

DOM32-R2
SHEET NO.