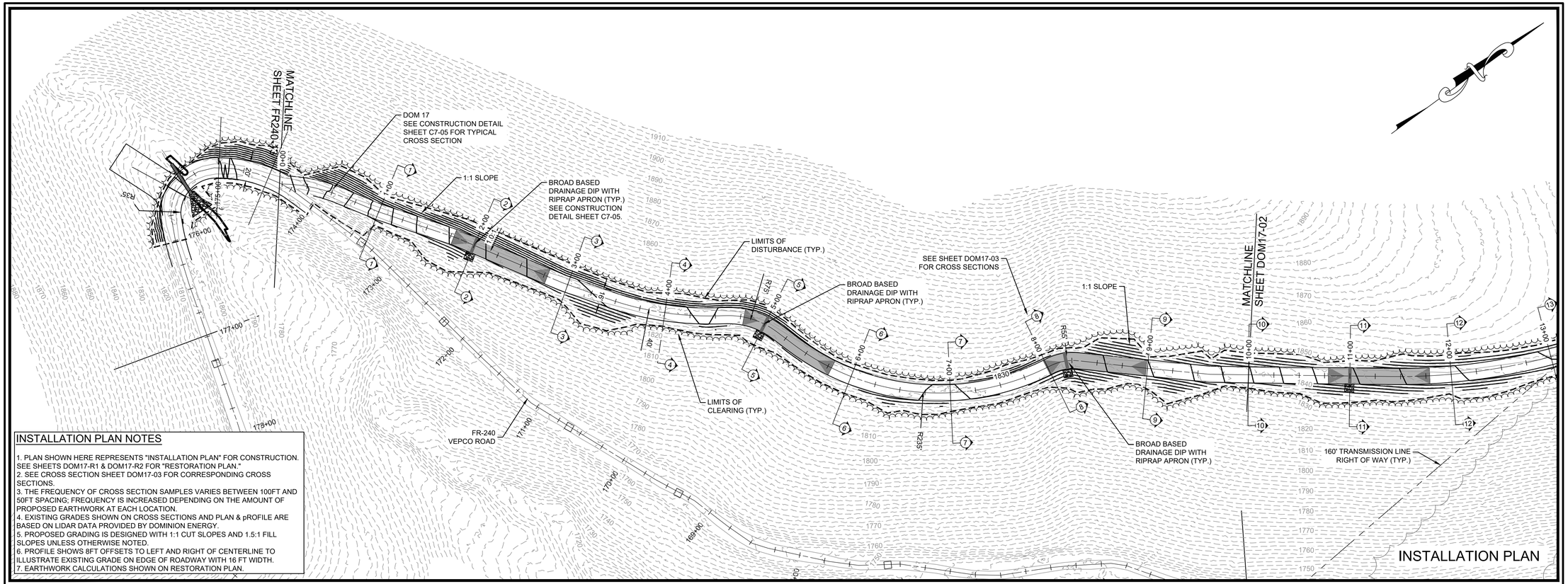
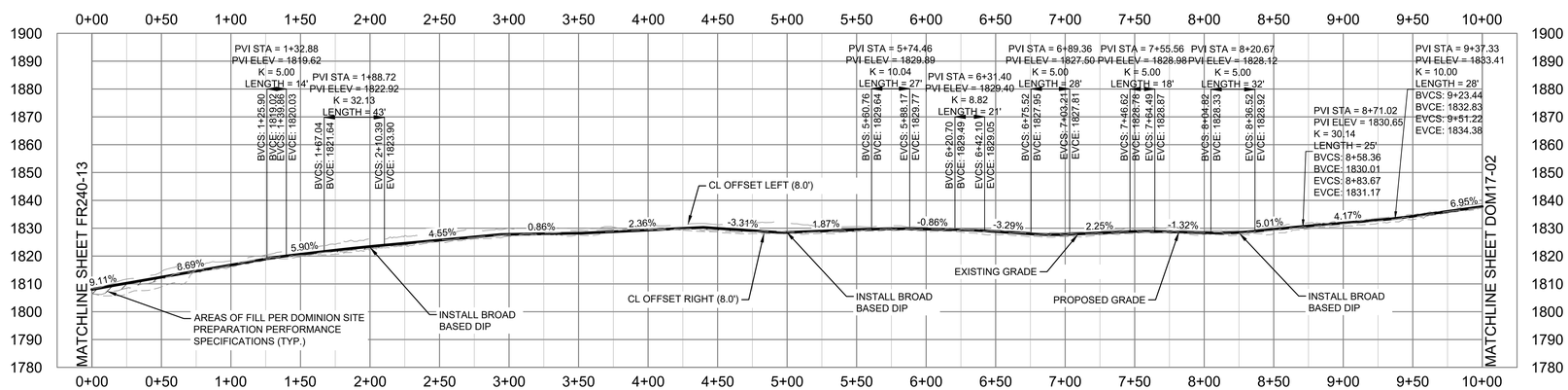


INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEETS DOM17-R1 & DOM17-R2 FOR "RESTORATION PLAN."
2. SEE CROSS SECTION SHEET DOM17-03 FOR CORRESPONDING CROSS SECTIONS.
3. 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.
4. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & pROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
5. PROPOSED GRADING IS DESIGNED WITH 1:1 CUT SLOPES AND 1.5:1 FILL SLOPES UNLESS OTHERWISE NOTED.
6. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16 FT WIDTH.
7. EARTHWORK CALCULATIONS SHOWN ON RESTORATION PLAN.



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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

REVISIONS

DRAWN BY	JDE
APPROVED BY	
CHECKED BY	ARB
DATE	05/21/21

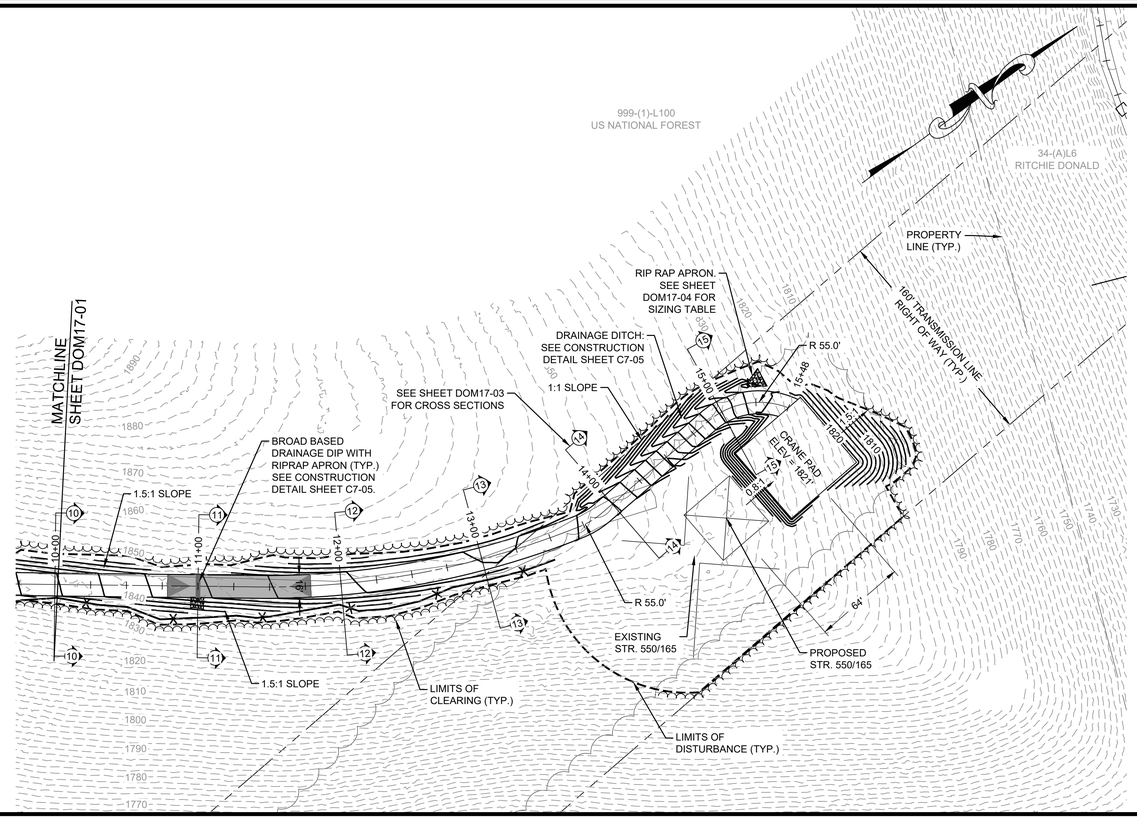
TITLE

DOM 17
PLAN & PROFILE

PROJECT NO. 50106442

DOM17-01

SHEET NO.



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET DOM17-R1 & DOM17-R2 FOR "RESTORATION PLAN."
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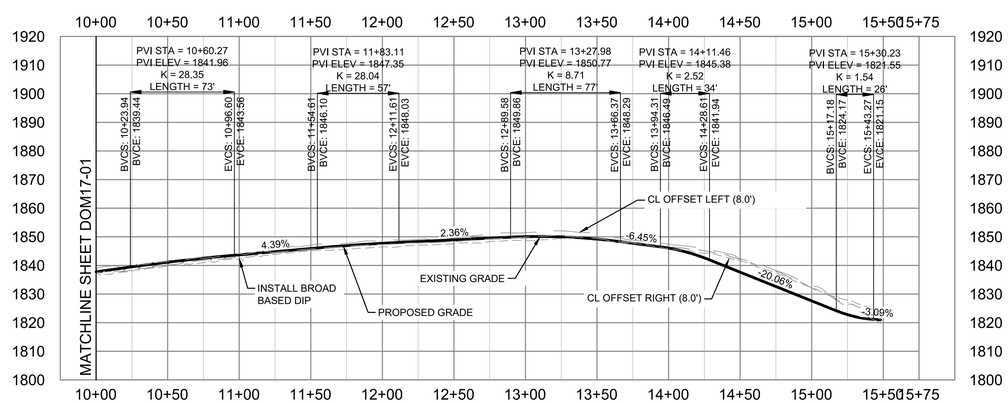
INSTALLATION PLAN



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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

REVISIONS

DRAWN BY	JDE
APPROVED BY	
CHECKED BY	ARB
DATE	05/21/21

TITLE

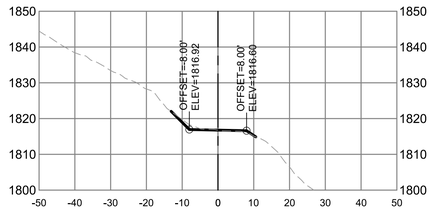
DOM 17
PLAN & PROFILE

PROJECT NO. 50106442

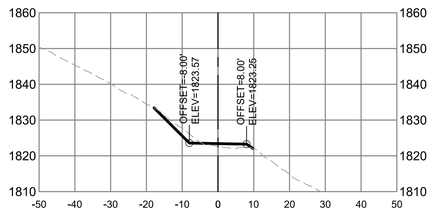
DOM17-02

SHEET NO.

DOM 17 #1, STATION 1+00.0



DOM 17 #2, STATION 2+00.0



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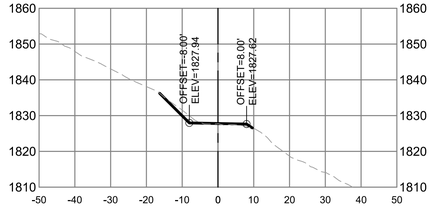
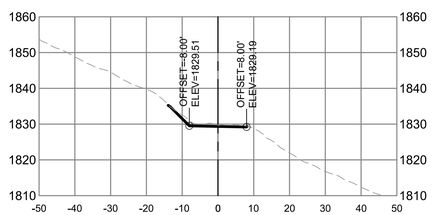
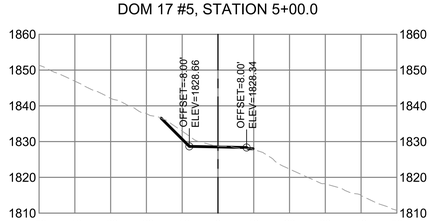


DOM 17 #4, STATION 4+00.0



DOM 17 #5, STATION 5+00.0



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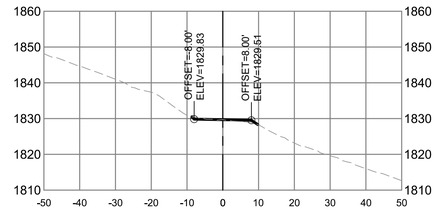

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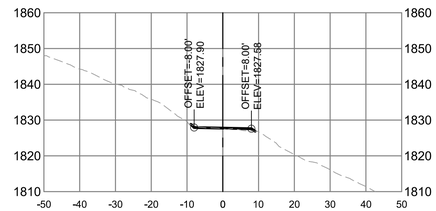
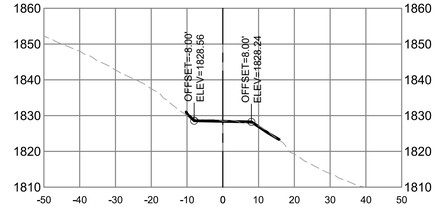
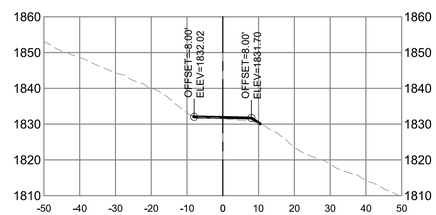


DOM 17 #8, STATION 8+00.0



DOM 17 #9, STATION 9+00.0



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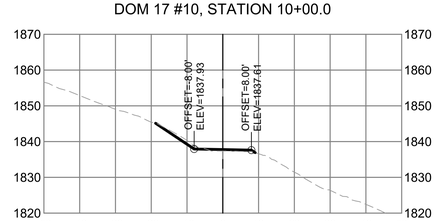

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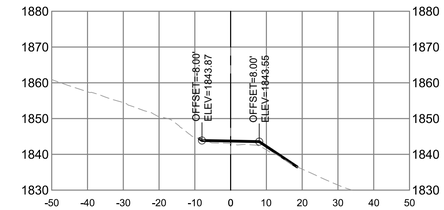

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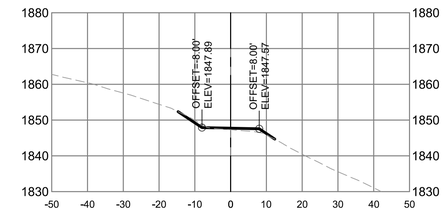

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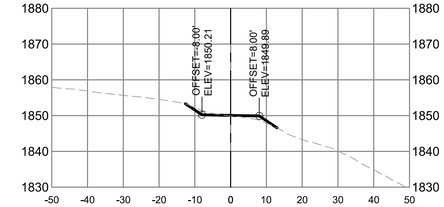

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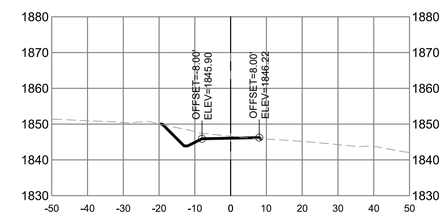
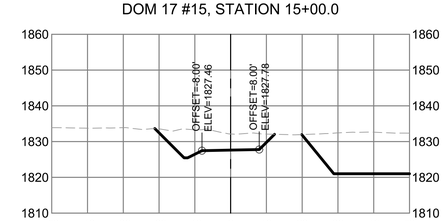


DOM 17 #15, STATION 15+00.0



Dewberry

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

REVISIONS

DRAWN BY	JDE
APPROVED BY	
CHECKED BY	ARB
DATE	05/21/21

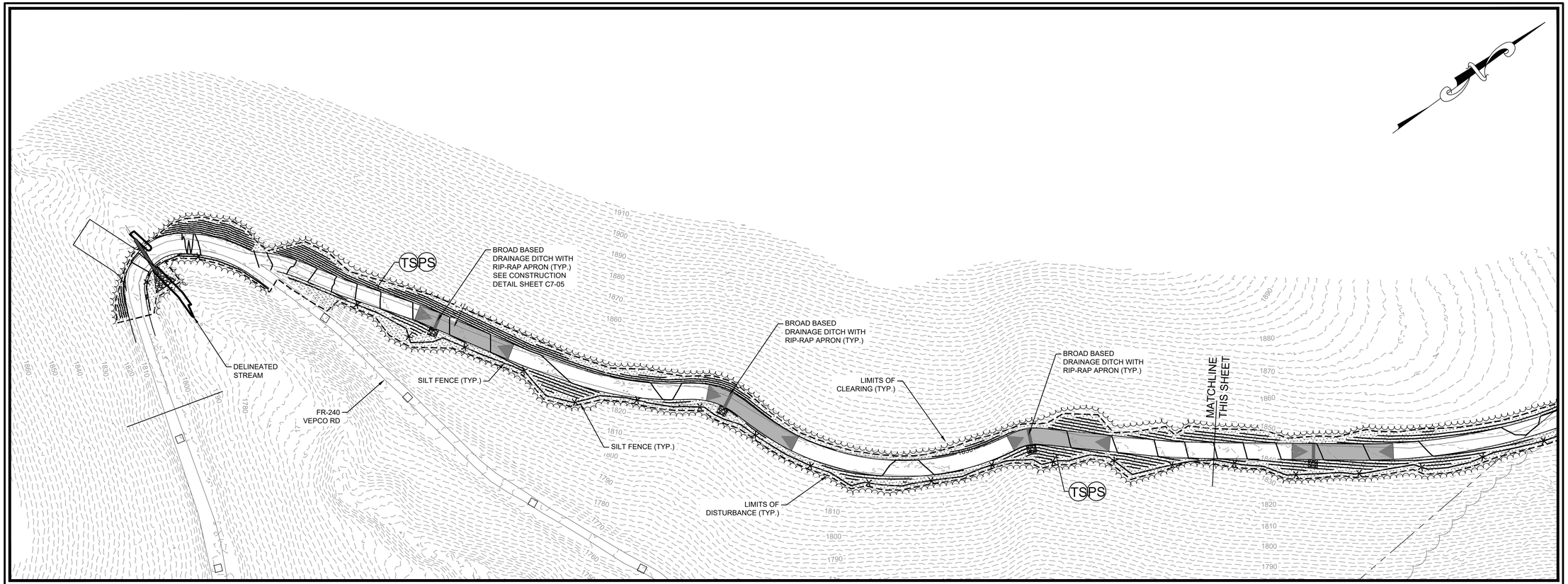
TITLE

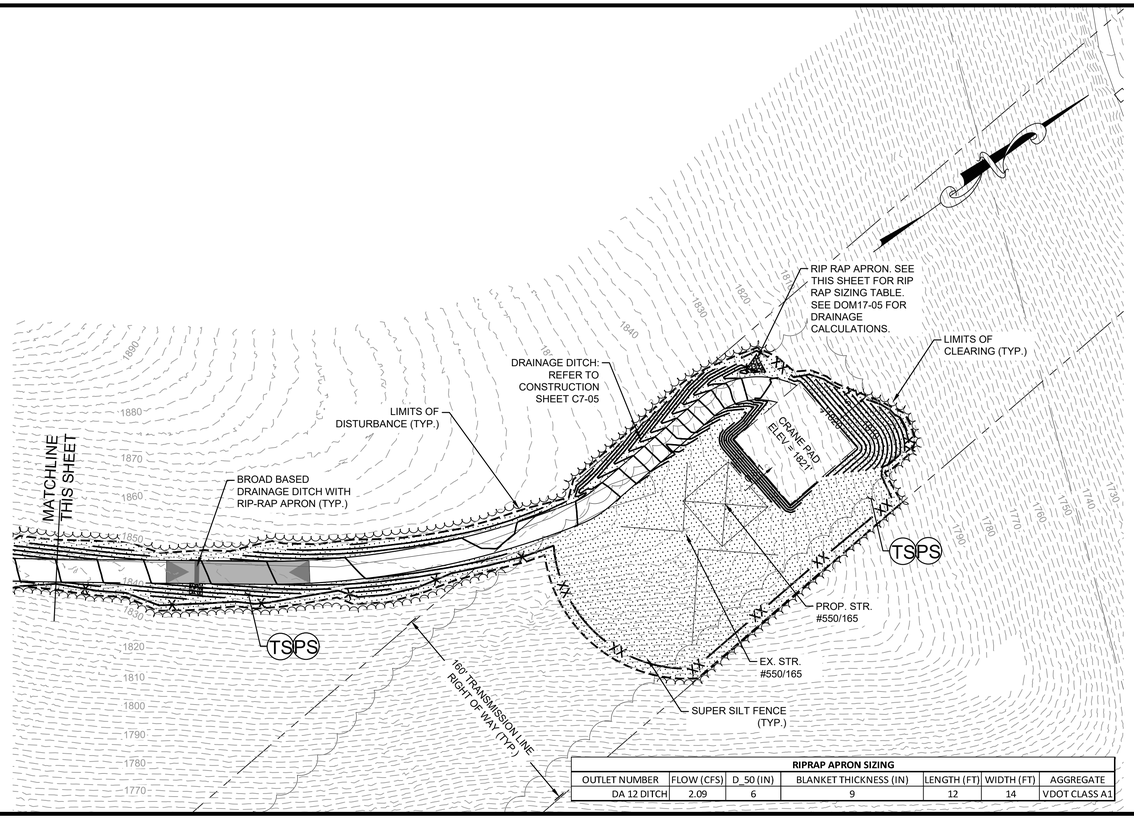
DOM 17
CROSS SECTIONS

PROJECT NO. 50106442

DOM17-03

SHEET NO.





RIPRAP APRON SIZING						
OUTLET NUMBER	FLOW (CFS)	D_50 (IN)	BLANKET THICKNESS (IN)	LENGTH (FT)	WIDTH (FT)	AGGREGATE
DA 12 DITCH	2.09	6	9	12	14	VDOT CLASS A1

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

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

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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

REVISIONS

DRAWN BY	JDE
APPROVED BY	
CHECKED BY	ARB
DATE	05/21/21

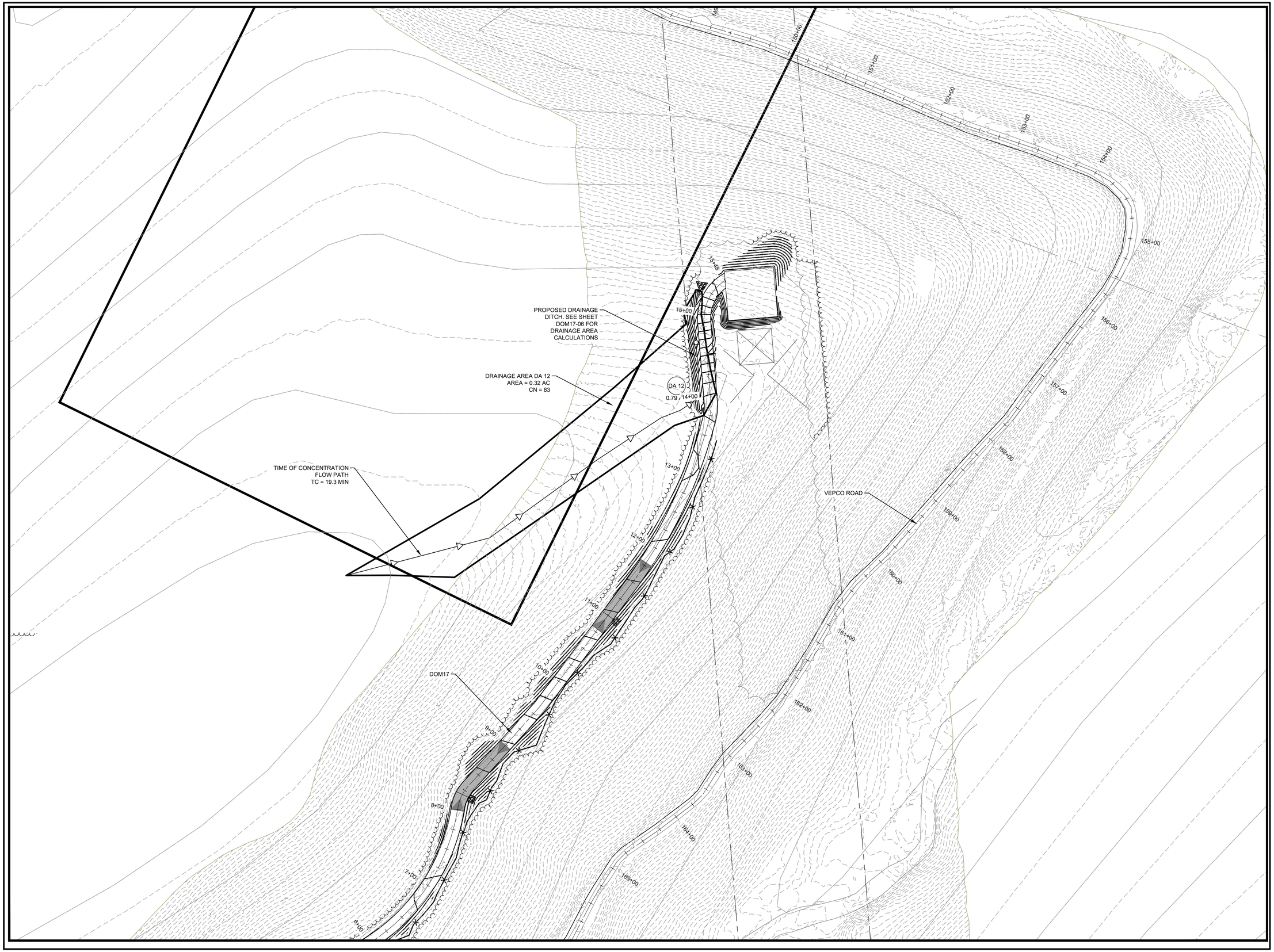
TITLE

DOM 17
ESC PLAN

PROJECT NO. 50106442

DOM17-04

SHEET NO.



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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

REVISIONS

DRAWN BY	JDE
APPROVED BY	
CHECKED BY	ARB
DATE	05/21/21

TITLE

DOM 17
DRAINAGE MAP

PROJECT NO. 50106442

DOM17-05

SHEET NO.

DRAINAGE AREA CALCULATIONS

```
JEanes                              50106442
                                  Dom 17 Ditch
                       Shenandoah NOAA_B County, Virginia

                       Hydrograph Peak/Peak Time Table

 Sub-Area       Peak Flow and Peak Time (hr) by Rainfall Return Period
 or Reach      10-Yr
Identifier     (cfs)
             (hr)
-------------------------------------------------------------------------------
SUBAREAS
DA 12            2.09
            12.07


REACHES

OUTLET           2.09

                   Sub-Area Time of Concentration Details

 Sub-Area      Flow            Mannings's    End     Wetted              Travel
Identifier/   Length    Slope      n        Area    Perimeter   Velocity   Time
              (ft)     (ft/ft)            (sq ft)     (ft)      (ft/sec)   (hr)
-------------------------------------------------------------------------------
DA 12
  SHEET         100   0.1500     0.800                                     0.298
  SHALLOW       143   0.1670     0.050                                     0.006
  SHALLOW       374   0.1500     0.050                                     0.017

                                                Time of Concentration       .321
                                                                         ========

                 Sub-Area Land Use and Curve Number Details

 Sub-Area                                        Hydrologic   Sub-Area   Curve
Identifier            Land Use                     Soil        Area     Number
                                                   Group       (ac)
-------------------------------------------------------------------------------
DA 12      Newly graded area (pervious only)         C          .08       91
           Woods - grass combination          (fair) D          .71       82

           Total Area / Weighted Curve Number                   .79       83
                                                                ===       ==
```


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CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

REVISIONS

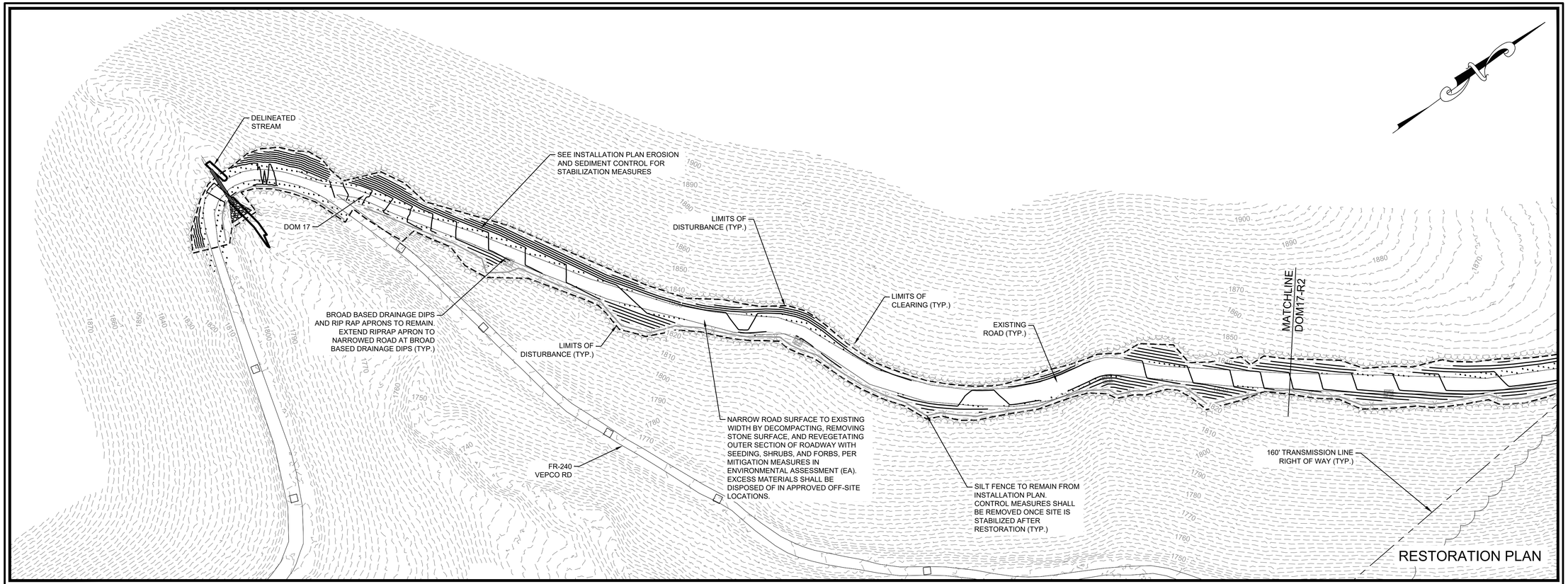
DRAWN BY JDE
APPROVED BY
CHECKED BY ARB
DATE 05/21/21

TITLE
DOM 17
DRAINAGE
COMPUTATIONS
AND DETAILS

PROJECT NO. 50106442

DOM17-06

SHEET NO.



EARTHWORK NOTES

1. EXCESS MATERIALS SHALL BE STORED IN TEMORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE47.
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 DOM 17 WILL BE PROVIDED IN SUMMARY TABLE.

RESTORATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEET DOM17-01 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.
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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.

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

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WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

REVISIONS

DRAWN BY	JDE
APPROVED BY	
CHECKED BY	ARB
DATE	05/21/21

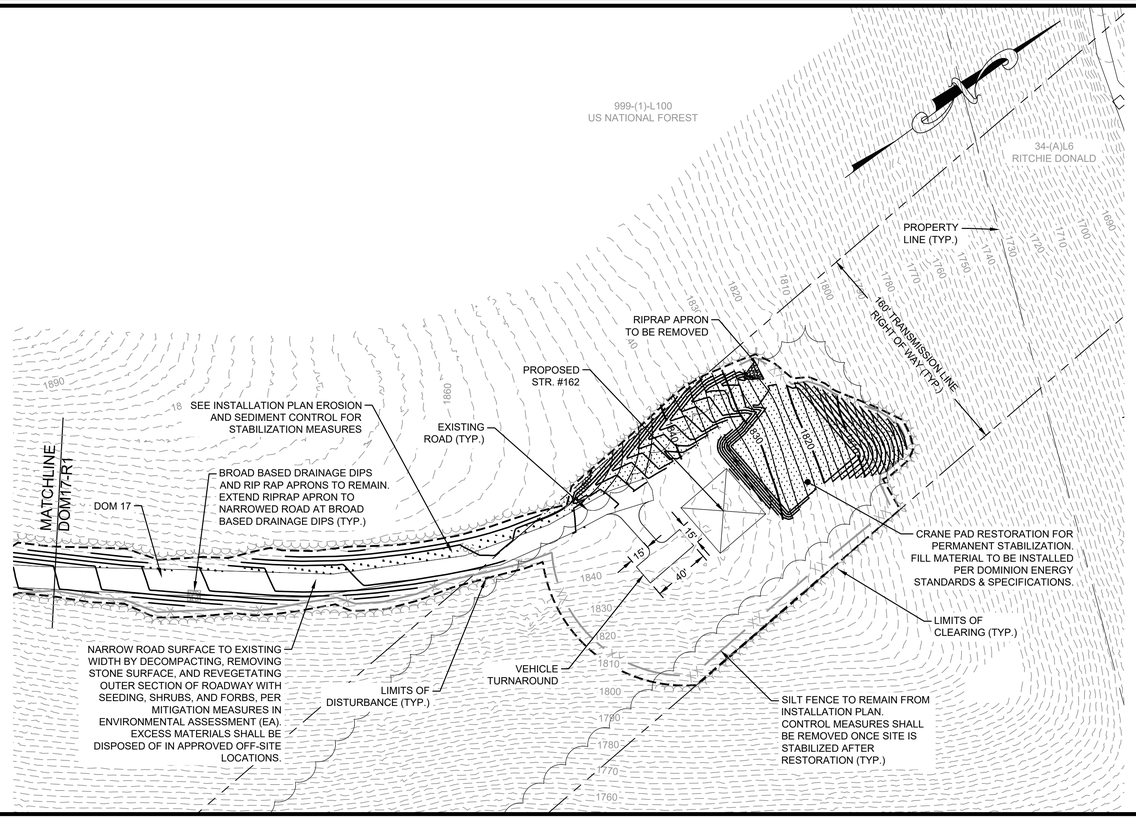
TITLE

DOM 17
RESTORATION
PLAN

PROJECT NO. 50106442

DOM17-R1

SHEET NO.



RESTORATION PLAN

DOM 17 INSTALLATION PLAN EARTHWORK CALCULATIONS				
	CUT (CY)	FILL (CY)	NET (CY)	
DOM 17 IMPROVEMENT	1057.9	364.8	693.1	(CUT)
INSTALL CRANE PAD AT STR. #165	707.7	456.8	250.9	(CUT)
INSTALLATION TOTALS	1765.6	821.6	944.0	(CUT)

DOM 17 RESTORATION PLAN EARTHWORK CALCULATIONS				
	CUT (CY)	FILL (CY)	NET (CY)	
DOM 17 IMPROVEMENT	0.2	661.6	661.4	(FILL)
RESTORE CRANE PAD AT STR. #165	429.1	731.0	301.9	(FILL)
RESTORATION TOTALS	429.3	1392.6	963.3	(FILL)

FINAL EARTHWORK BALANCE		
	NET (CY)	
DOM 17 INSTALLATION	944.0	(CUT)
DOM 17 RESTORATION	963.3	(FILL)
DOM 17 TOTAL	19.3	(CUT)

EARTHWORK NOTES

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- 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

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
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WEST VIRGINIA & VIRGINIA

SEAL

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SCALE
0' 50' 100'
HORIZONTAL SCALE

REVISIONS

DRAWN BY JDE
APPROVED BY
CHECKED BY ARB
DATE 05/21/21

TITLE
DOM 17 RESTORATION PLAN

PROJECT NO. 50106442

DOM17-R2
SHEET NO.