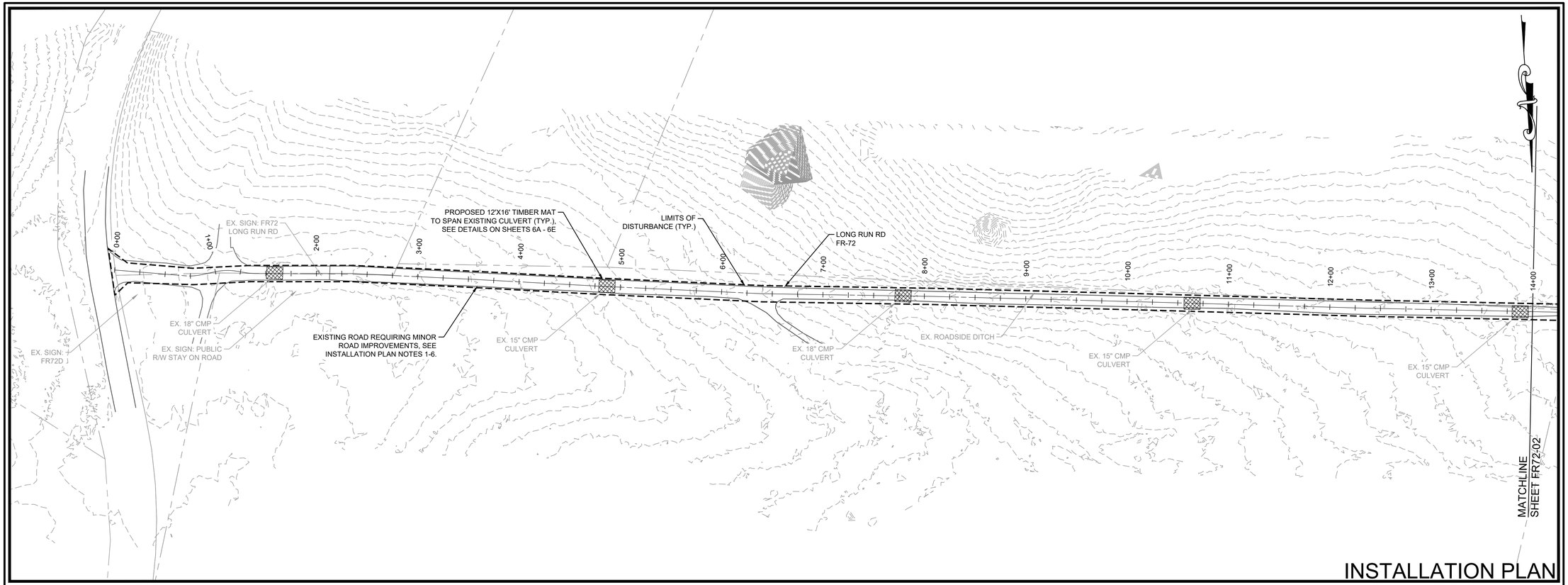
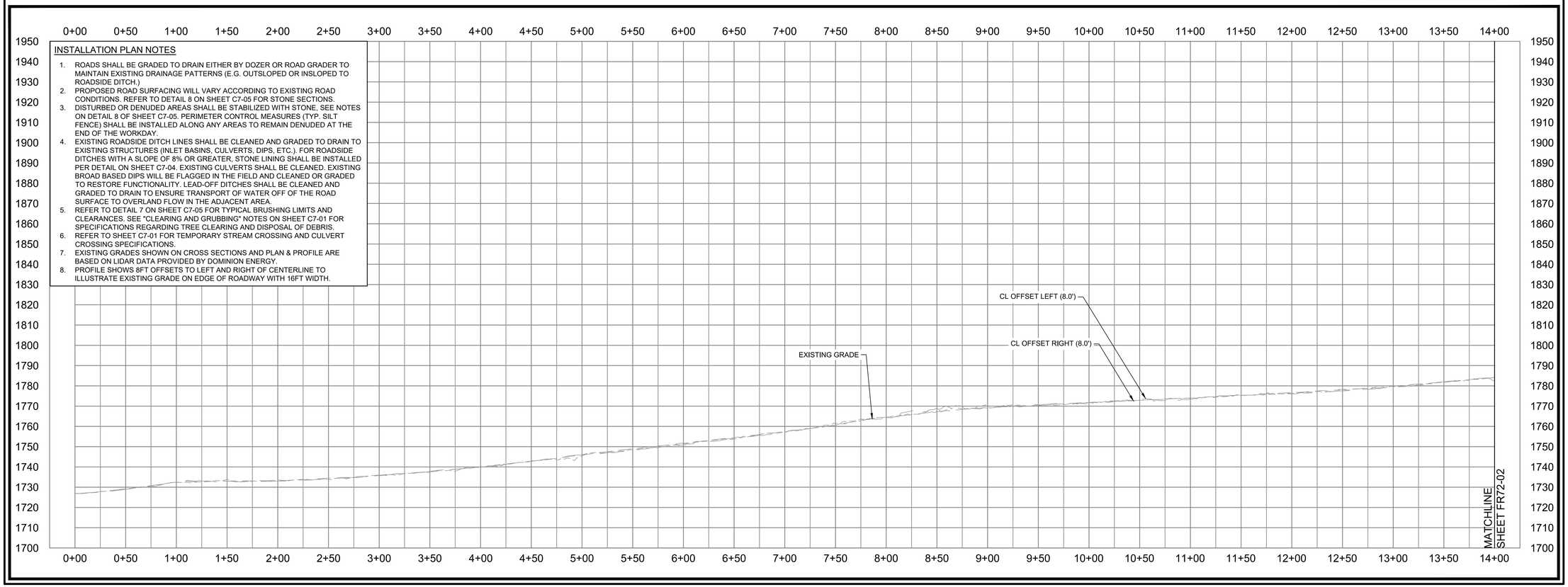


INSTALLATION PLAN



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

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

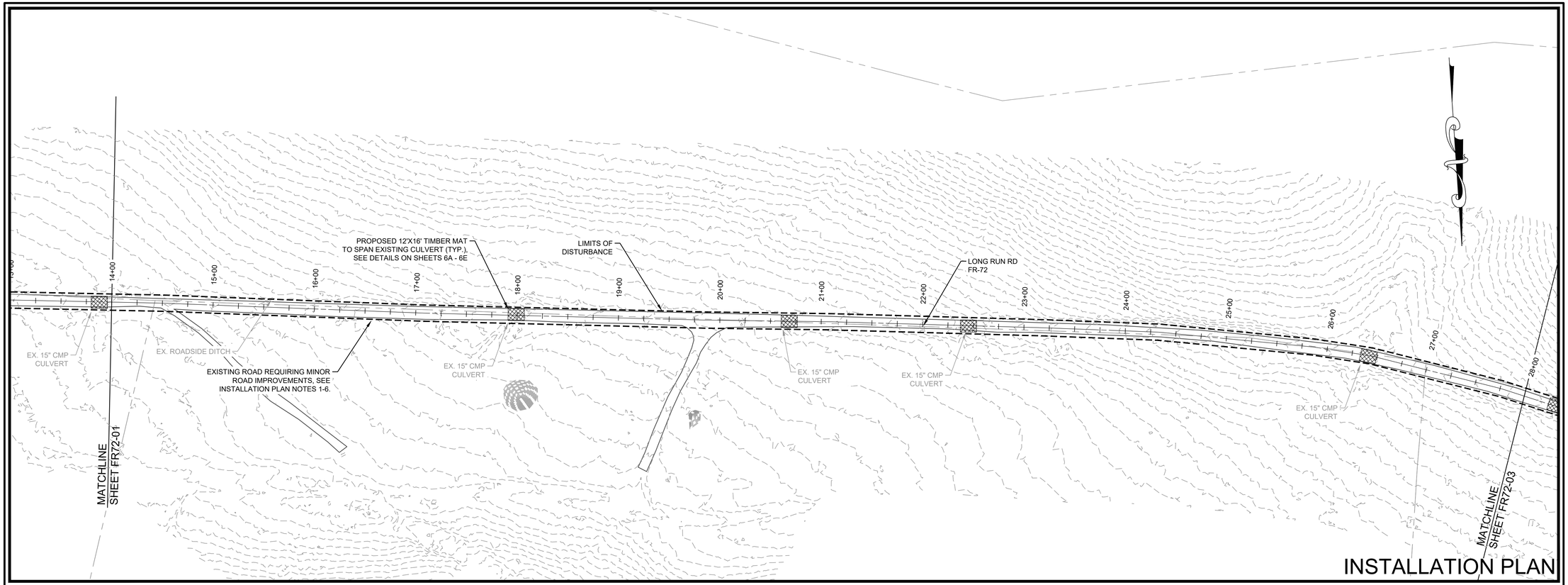
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

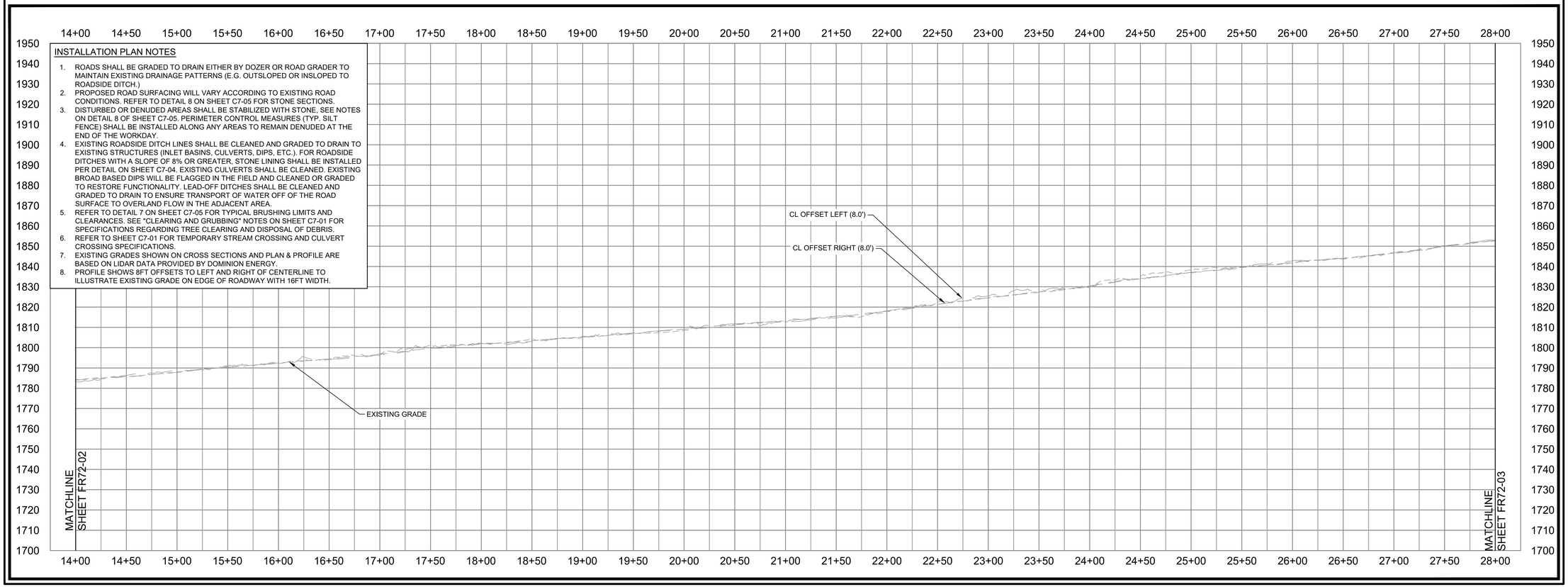
PROJECT NO. 50106442

FR72-01

SHEET NO.



INSTALLATION PLAN



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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

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

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REVISIONS

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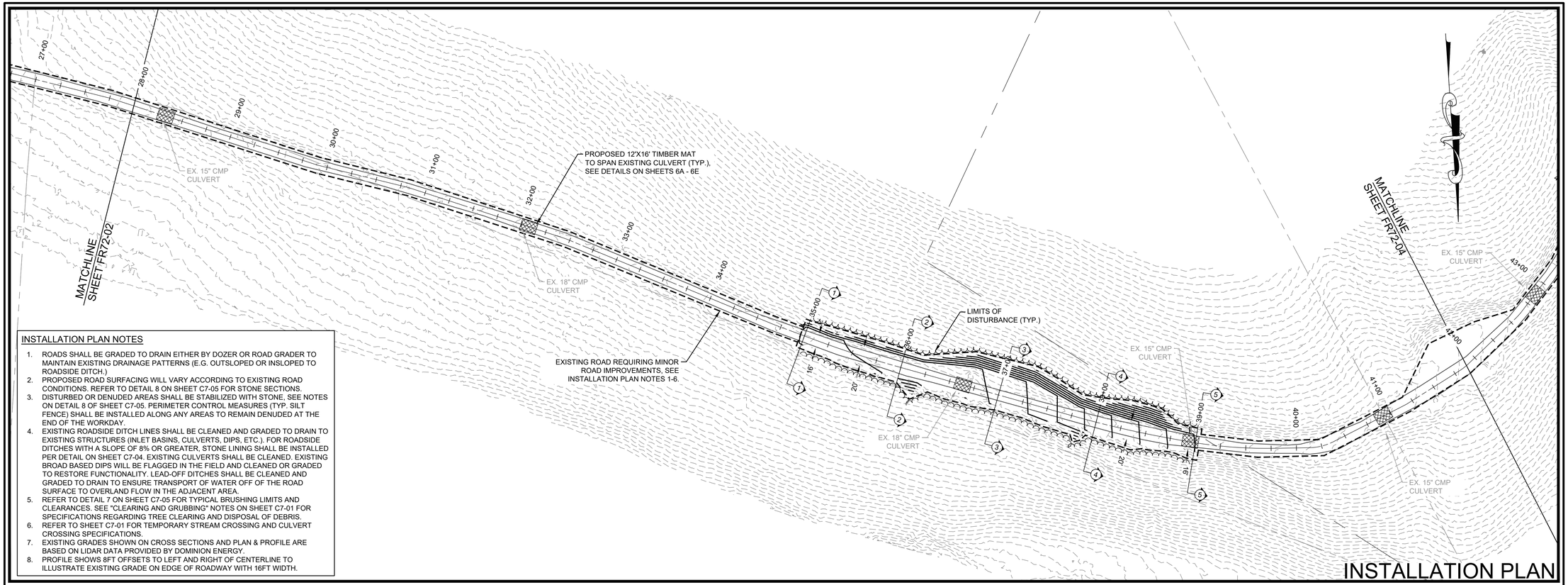
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-02

SHEET NO.



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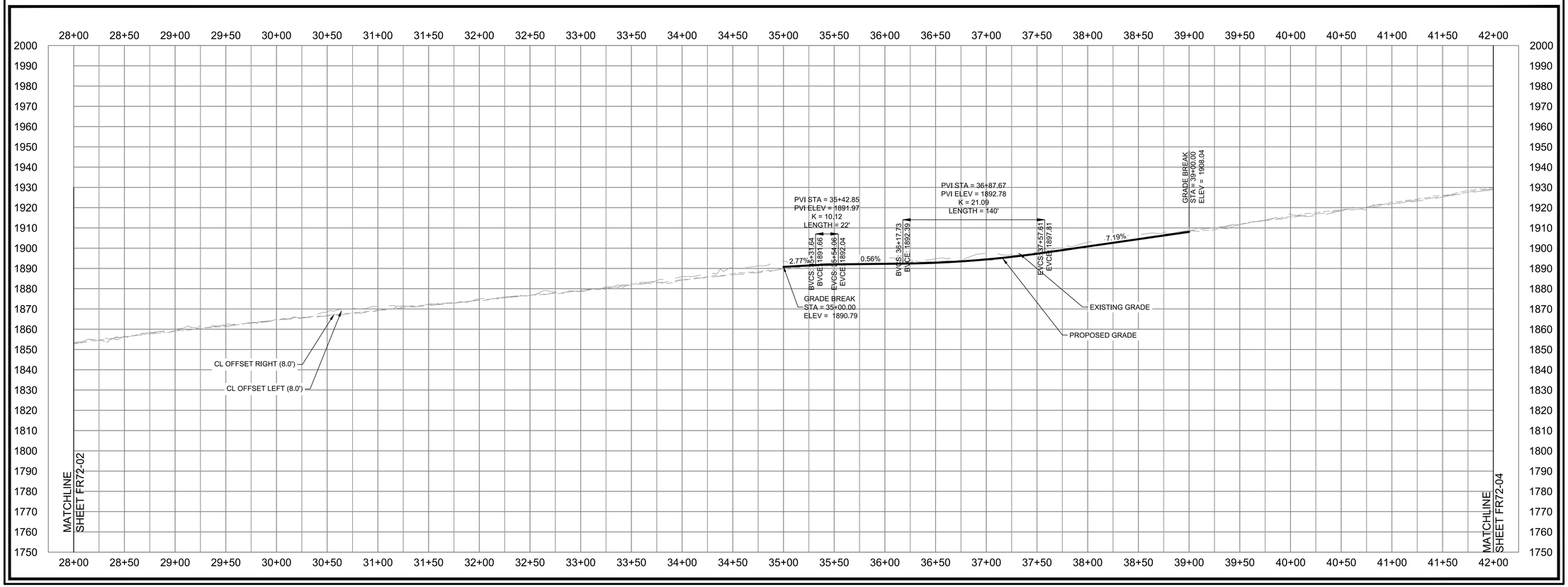

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CONSTRUCTION DOCUMENTS
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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
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HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

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TITLE

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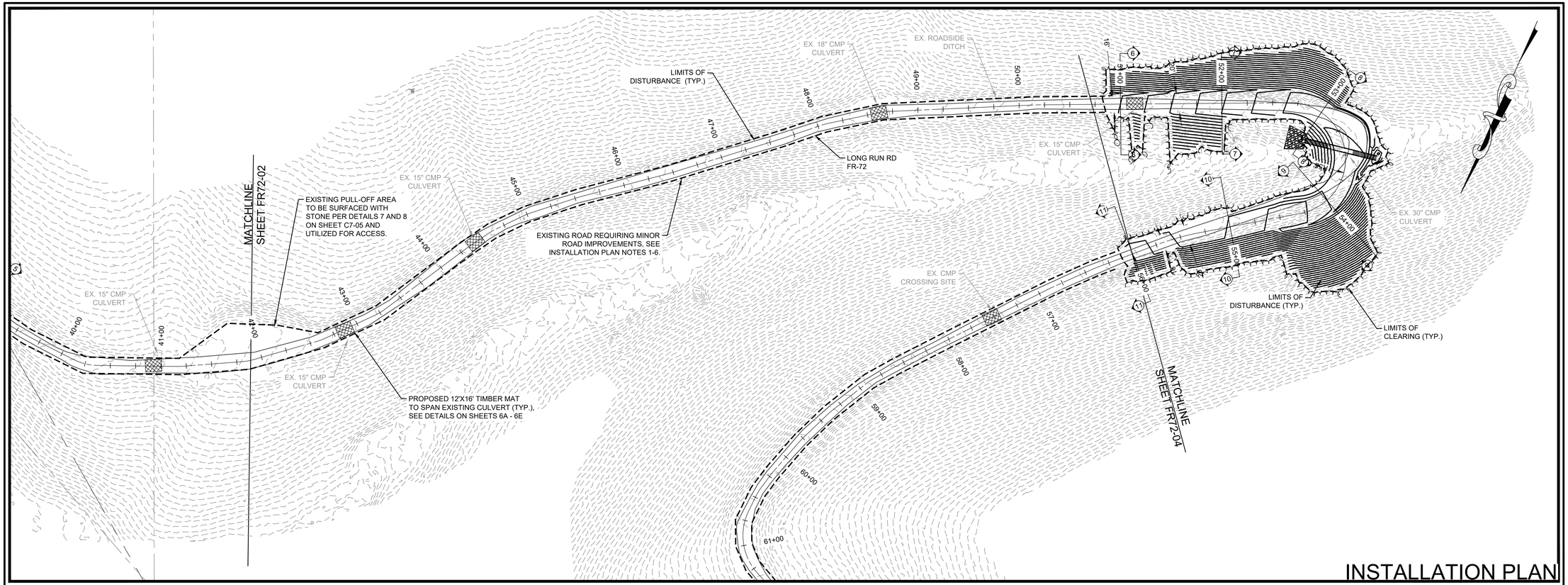
LONG RUN RD
PLAN & PROFILE

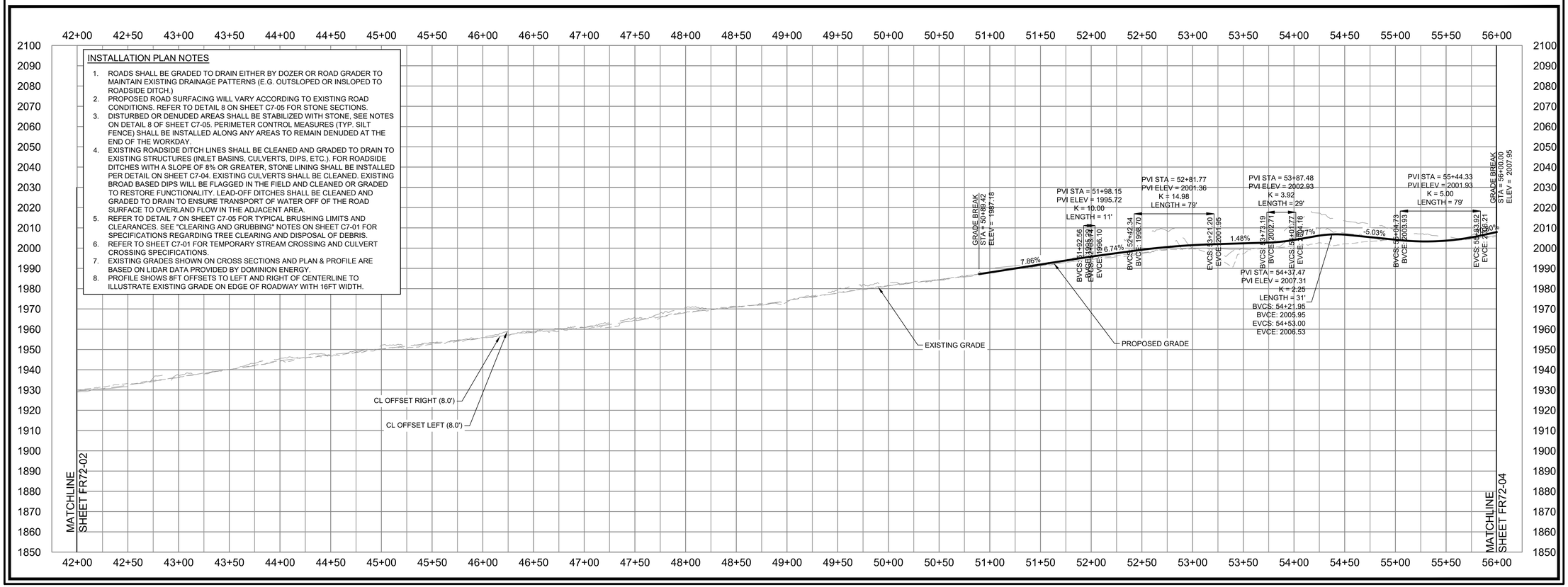
PROJECT NO. 50106442

FR72-03

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

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1	07/29/21	ARB	FOR REVIEW
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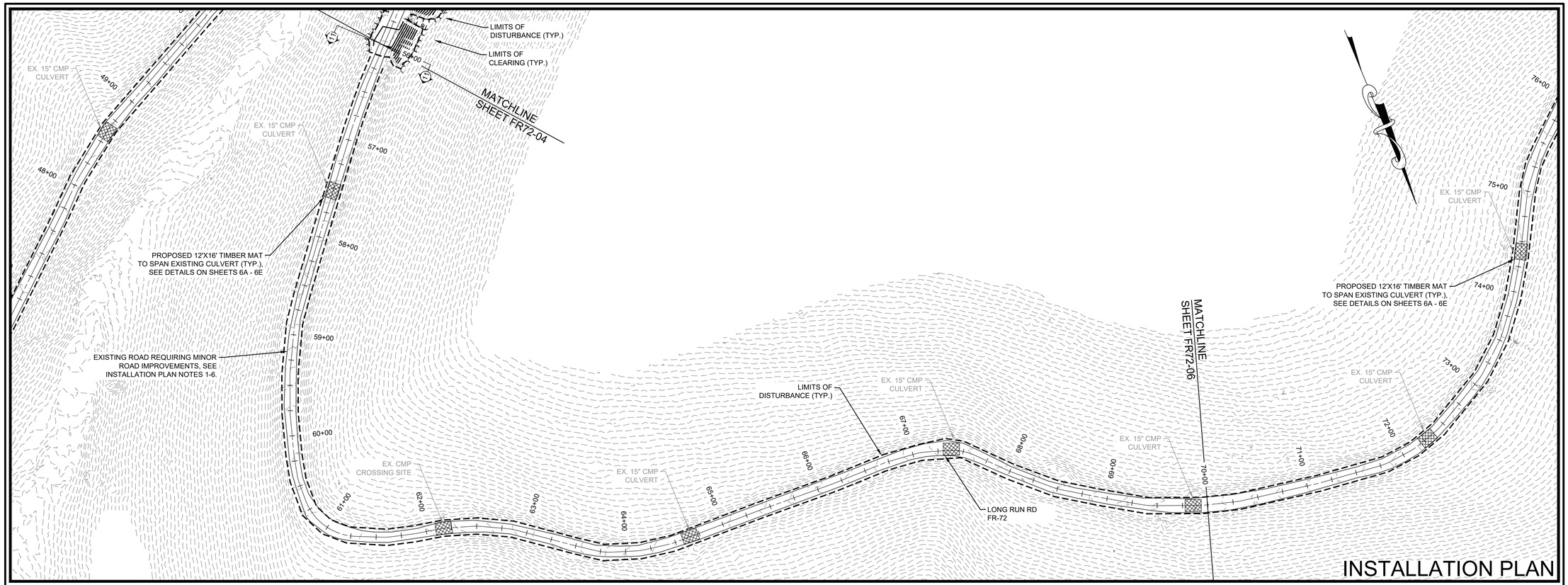
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

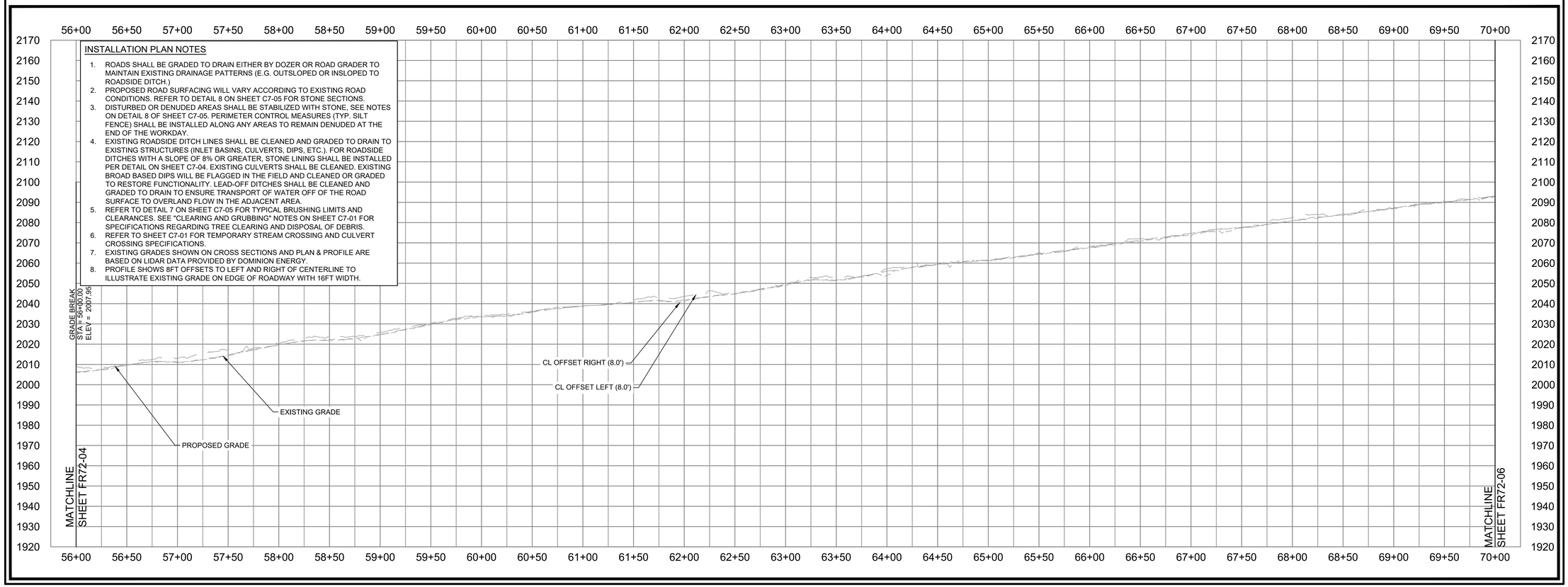
PROJECT NO. 50106442

FR72-04

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

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1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

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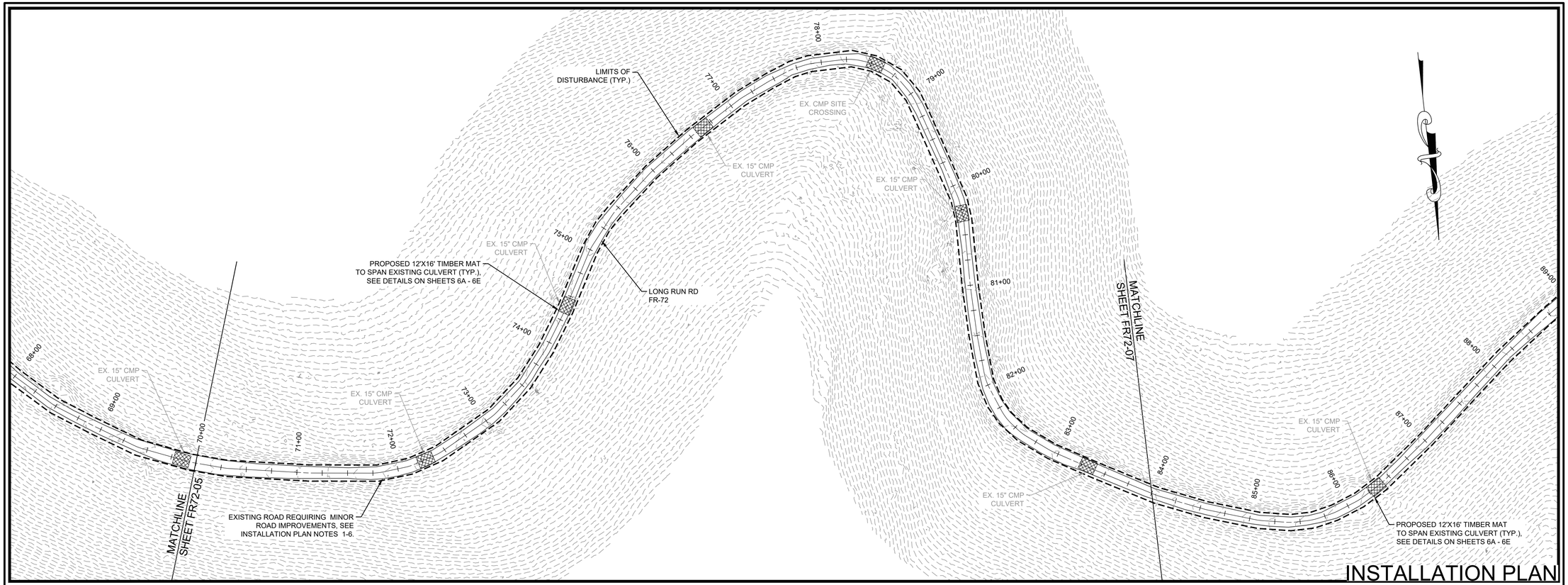
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

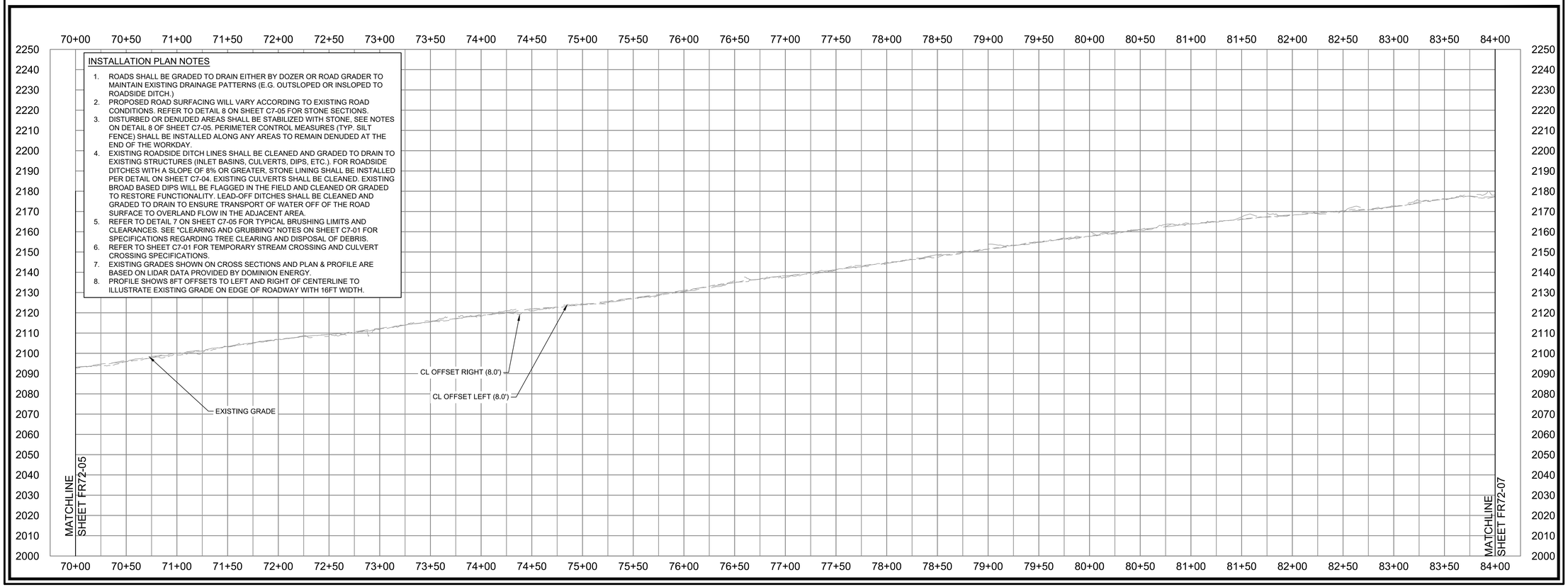
PROJECT NO. 50106442

FR72-05

SHEET NO.



INSTALLATION PLAN



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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

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

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REVISIONS

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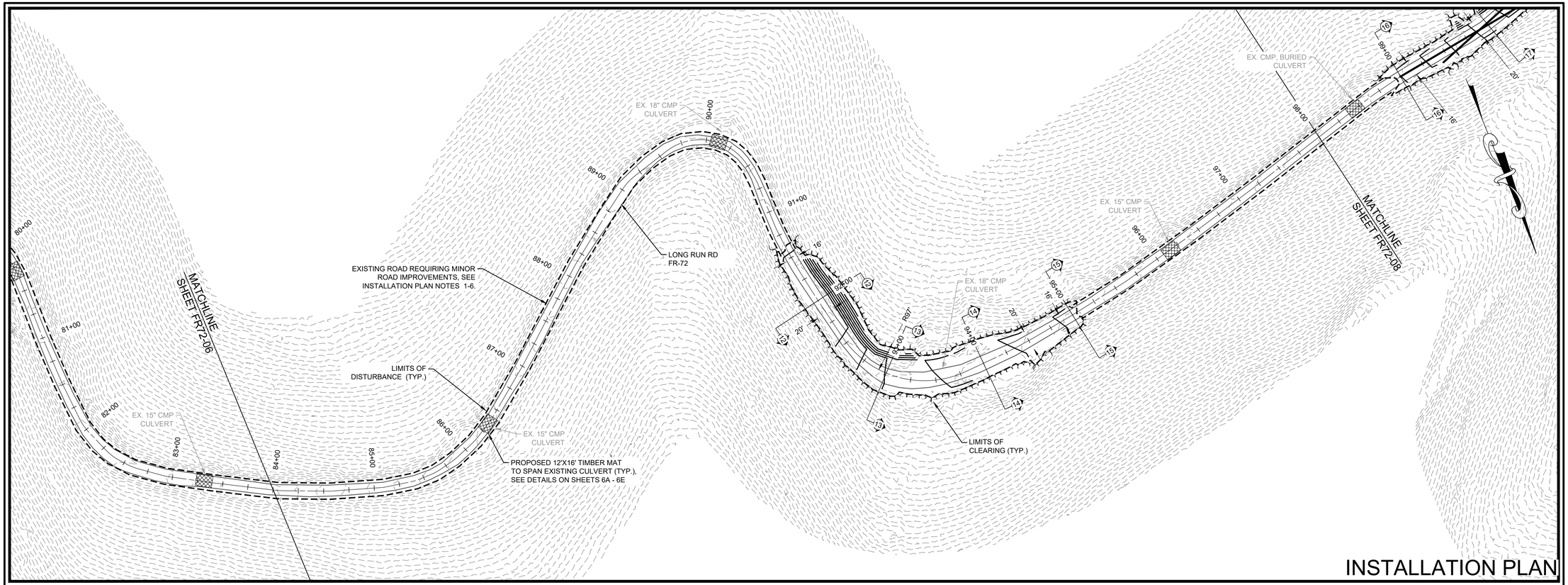
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

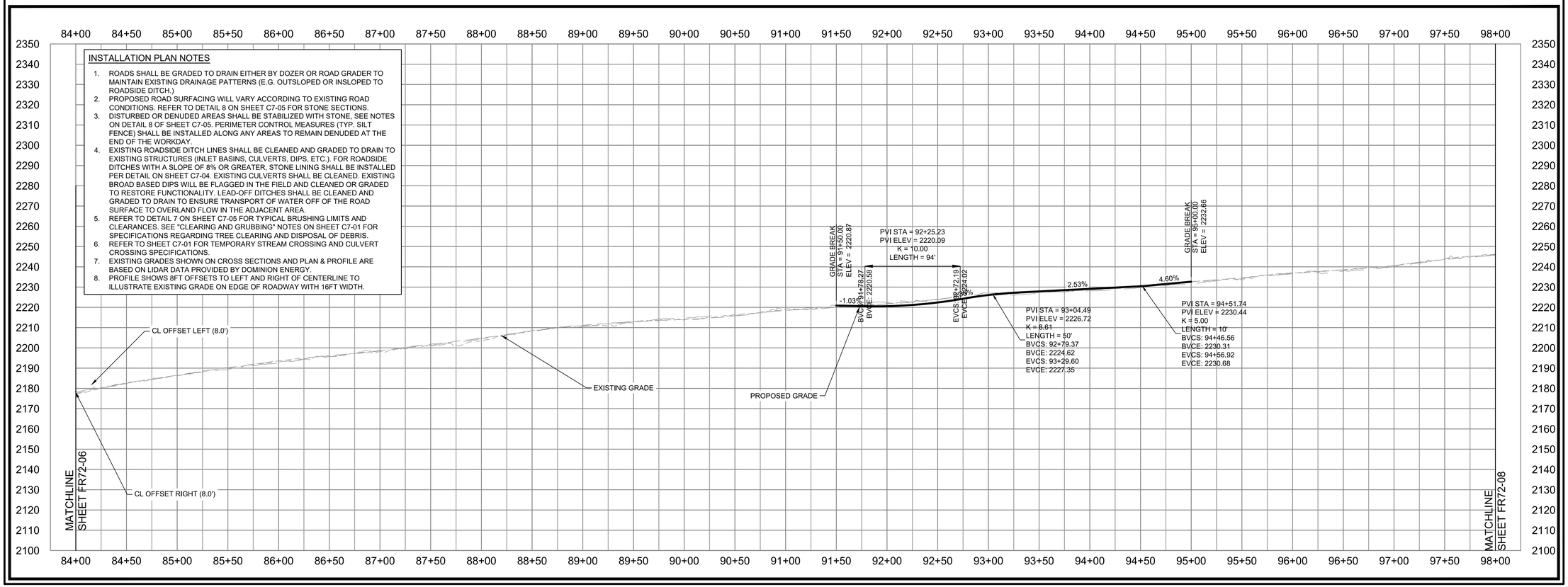
PROJECT NO. 50106442

FR72-06

SHEET NO.



INSTALLATION PLAN



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SEAL

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

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PLAN & PROFILE

PROJECT NO. 50106442

FR72-07

SHEET NO.

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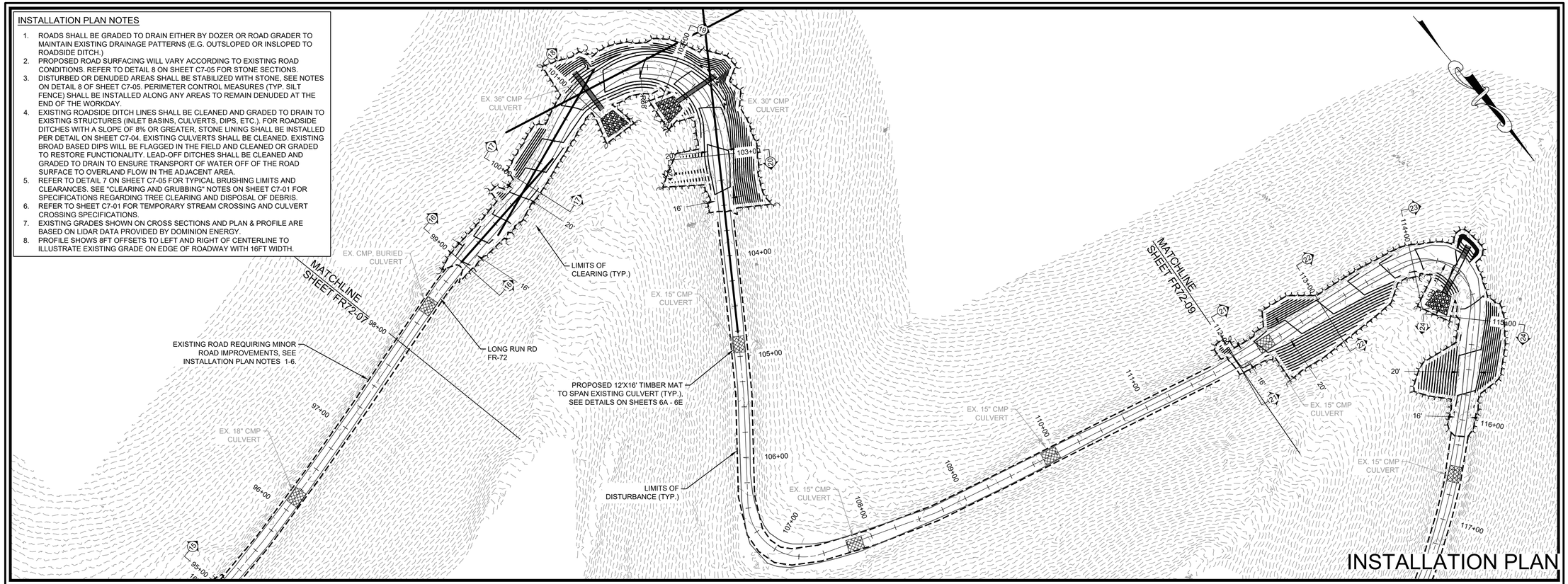
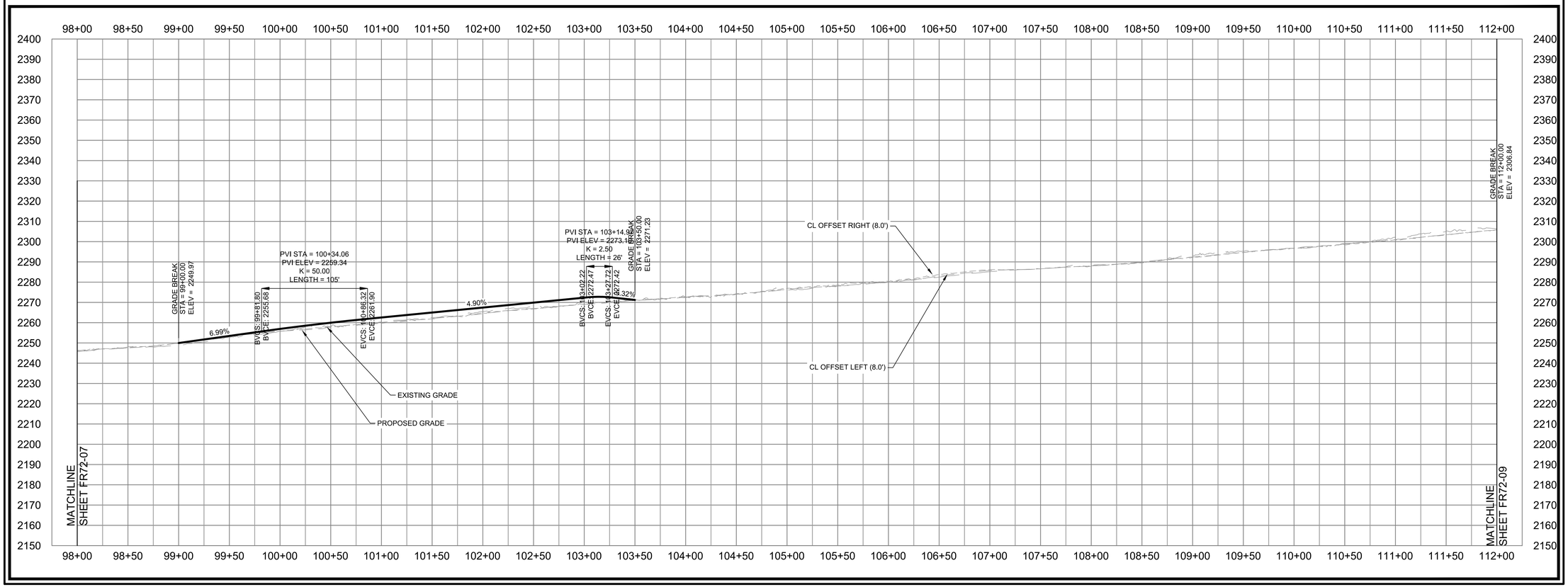


INSTALLATION PLAN



Dewberry

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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
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	07/29/2021

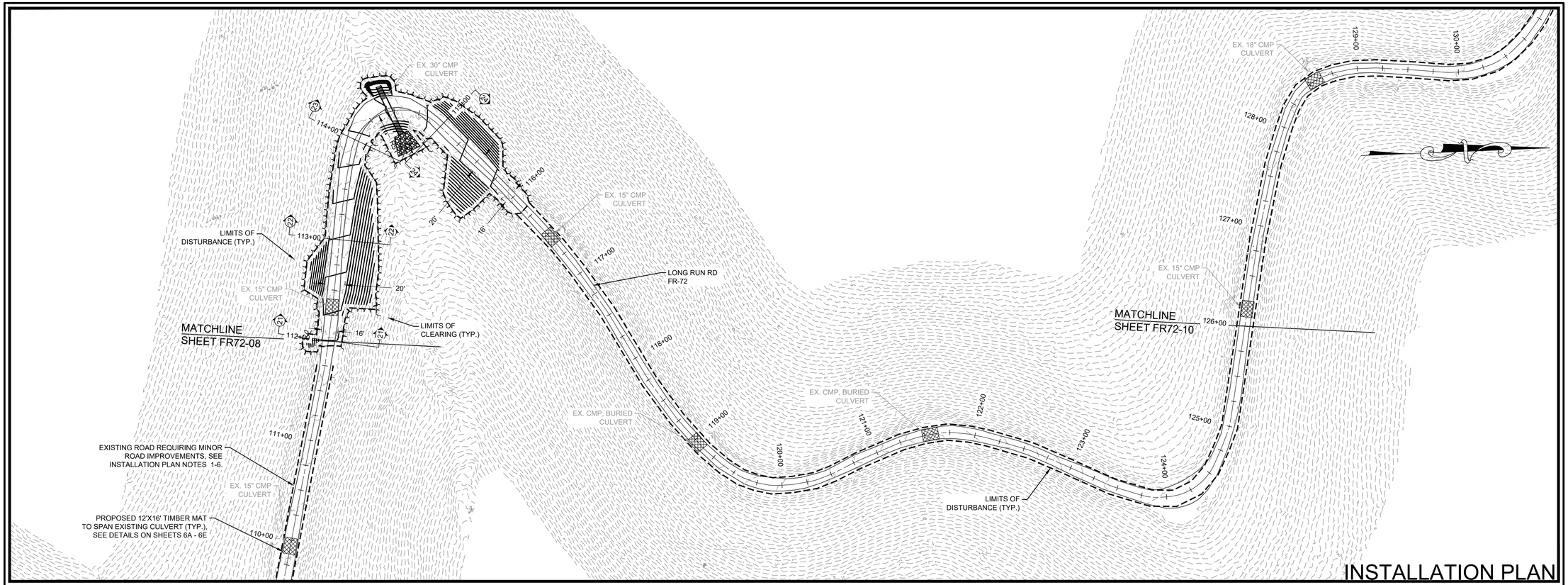
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

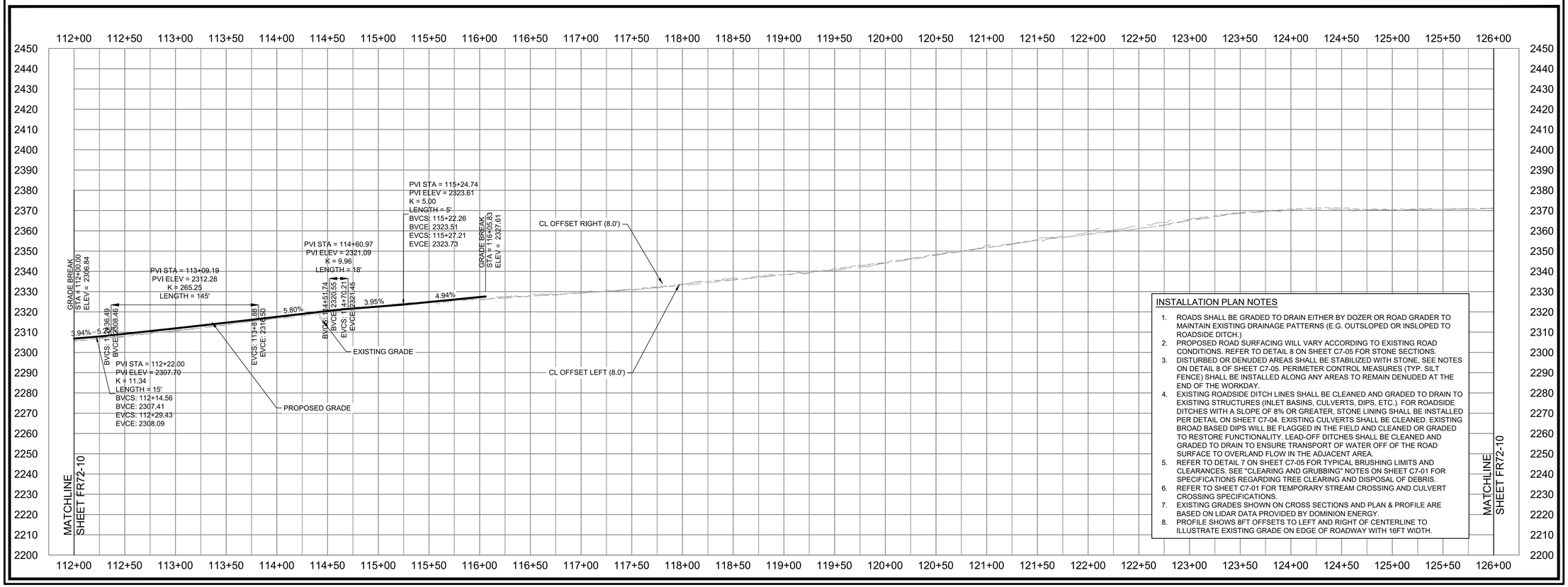
PROJECT NO. 50106442

FR72-08

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. 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. PROPOSED ROAD SURFACING WILL VARY ACCORDING TO EXISTING ROAD CONDITIONS. REFER TO DETAIL 8 ON SHEET C7-05 FOR STONE SECTIONS.
3. DISTURBED OR DENUDED AREAS SHALL BE STABILIZED WITH STONE, SEE NOTES ON DETAIL 8 OF SHEET C7-05. PERIMETER CONTROL MEASURES (TYP. SILT FENCE) SHALL BE INSTALLED ALONG ANY AREAS TO REMAIN DENUDED AT THE END OF THE WORKDAY.
4. EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (INLET BASINS, CULVERTS, DIPS, ETC.). FOR ROADSIDE DITCHES WITH A SLOPE OF 8% OR GREATER, STONE LINING SHALL BE INSTALLED PER DETAIL ON SHEET C7-04. EXISTING CULVERTS SHALL BE CLEANED. EXISTING BROAD BASED DIPS WILL BE FLAGGED IN THE FIELD AND CLEANED OR GRADED TO RESTORE FUNCTIONALITY. 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.
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8. 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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VERTICAL SCALE

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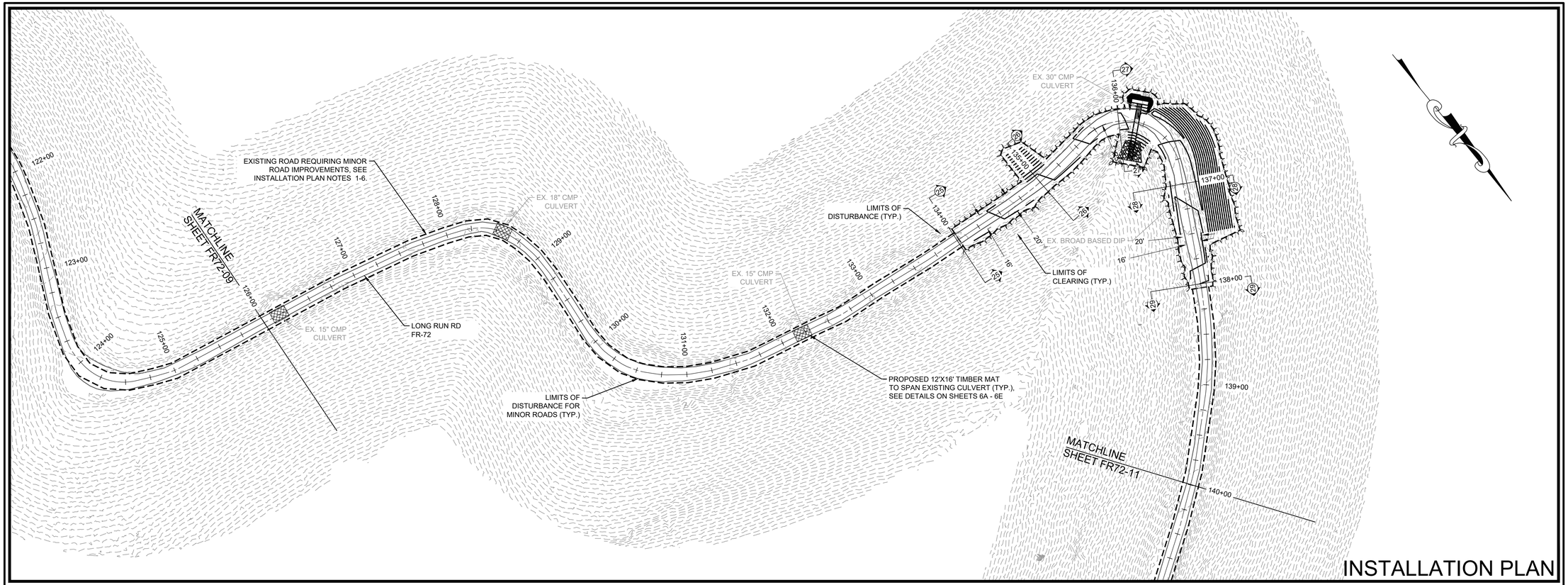
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

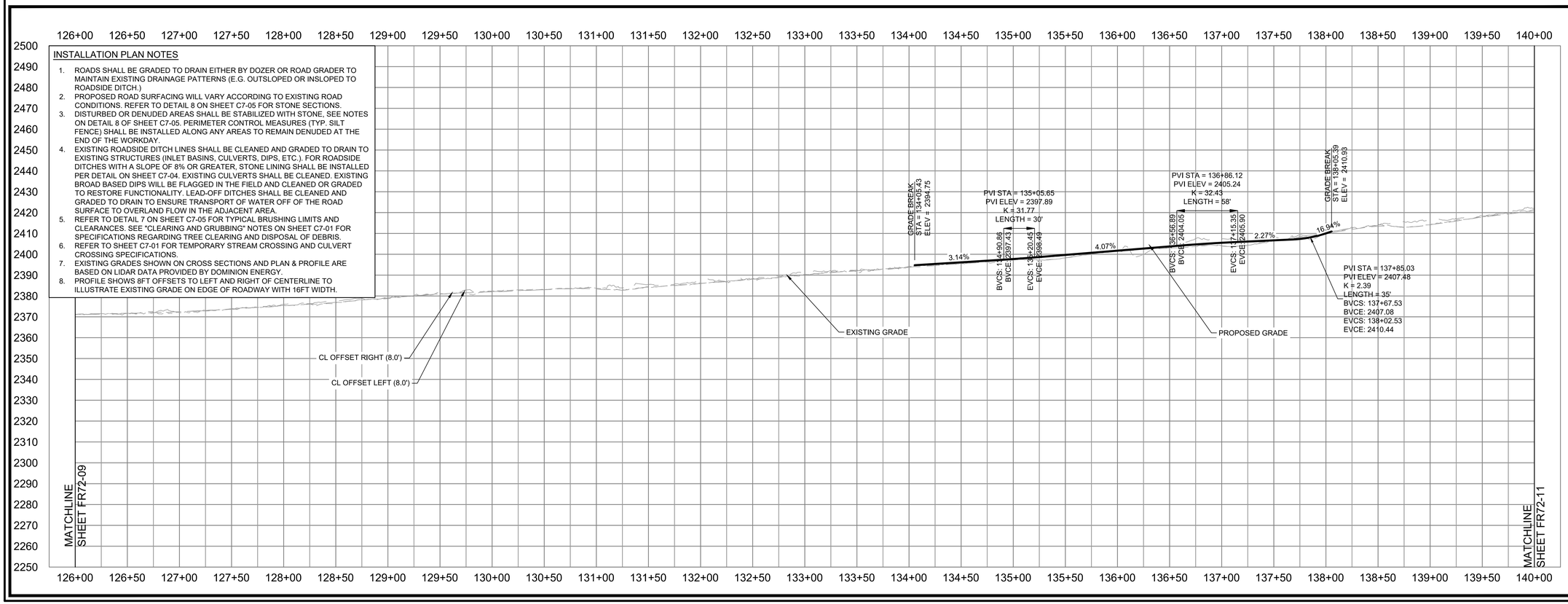
PROJECT NO. 50106442

FR72-09

SHEET NO.



INSTALLATION PLAN



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VERTICAL SCALE

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FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-10

SHEET NO.

INSTALLATION PLAN NOTES

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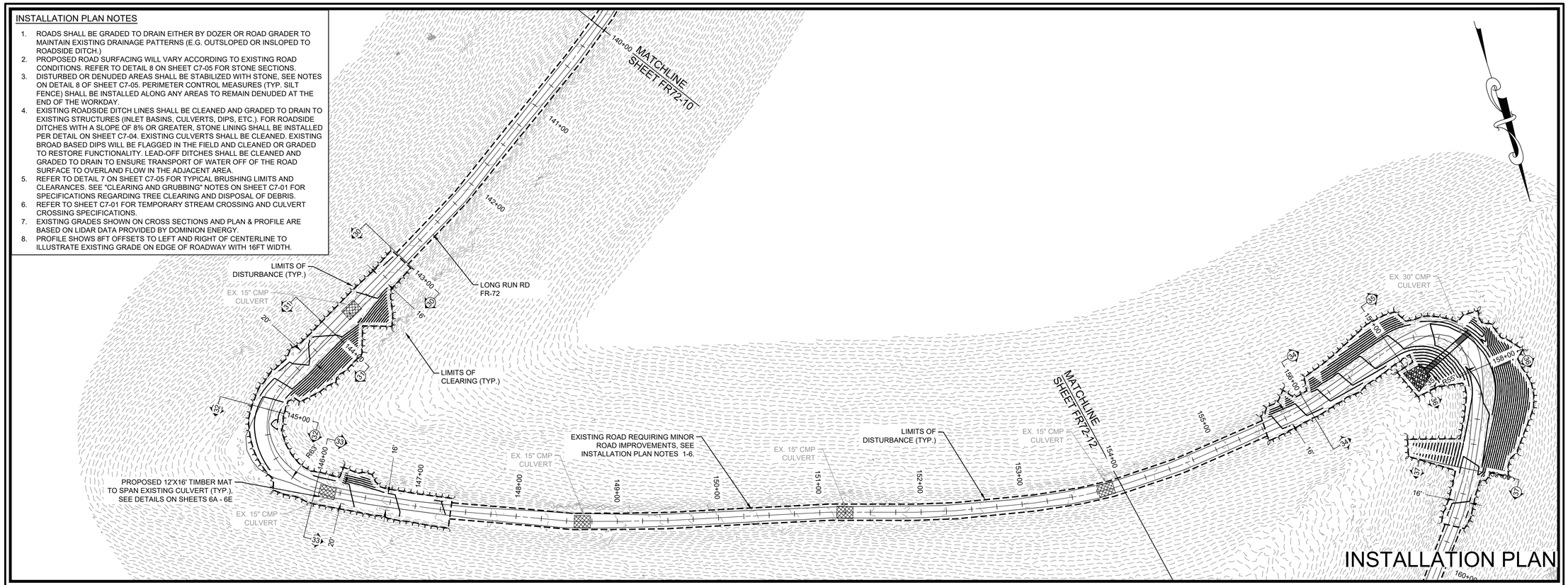
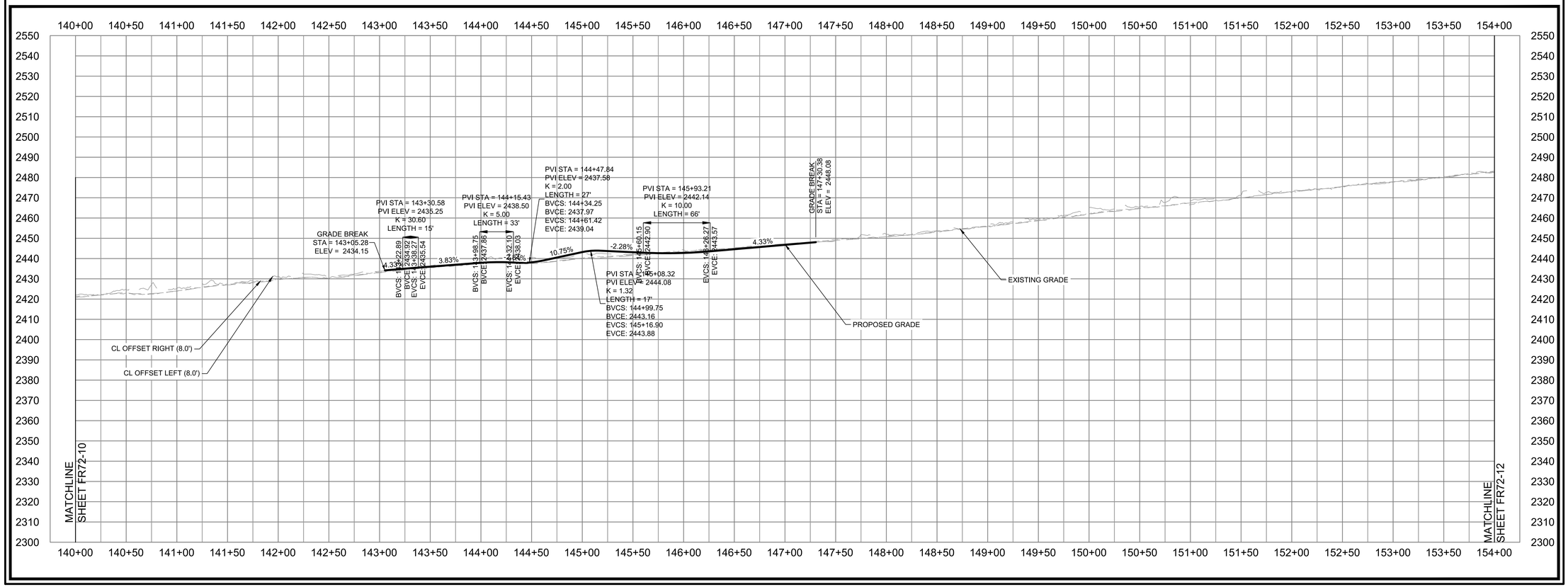


INSTALLATION PLAN



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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE

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

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CHECKED BY KAP
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TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-11

SHEET NO.

INSTALLATION PLAN NOTES

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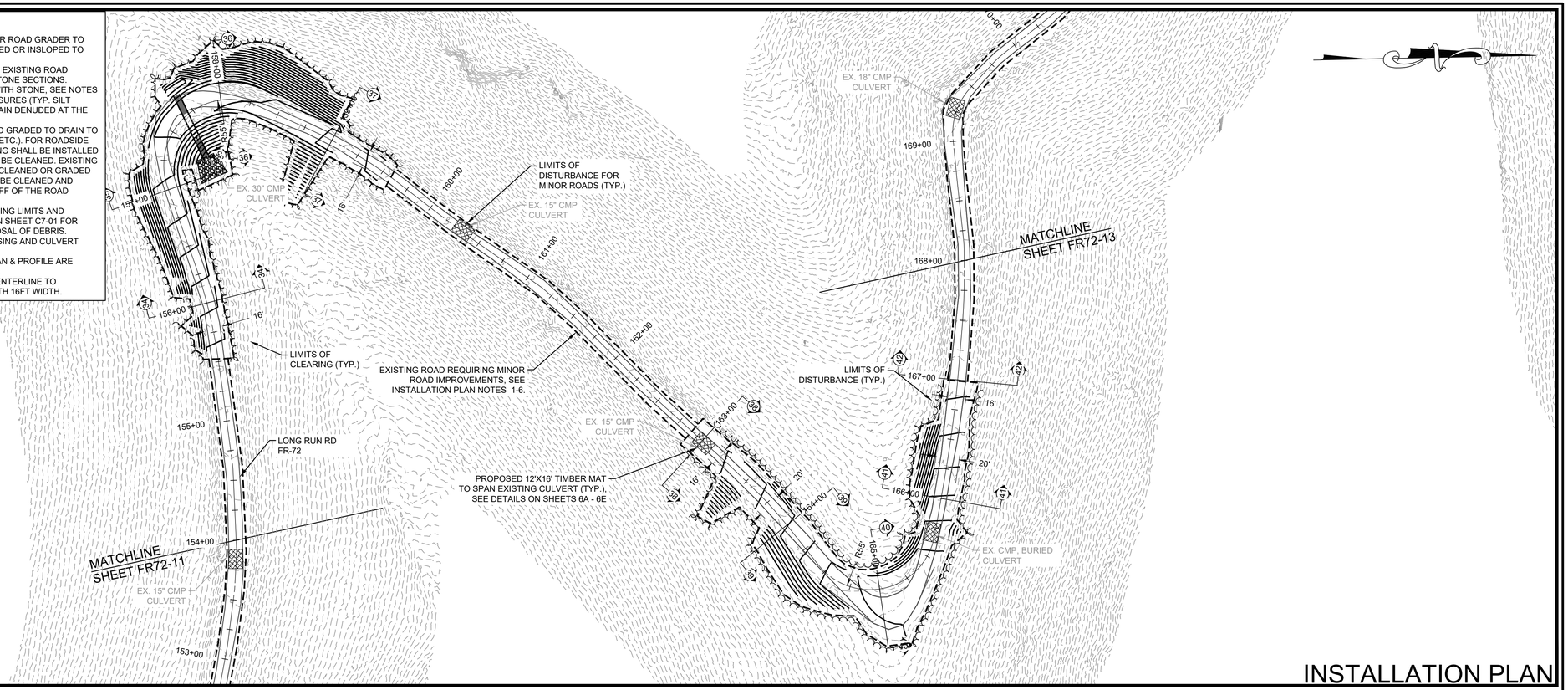
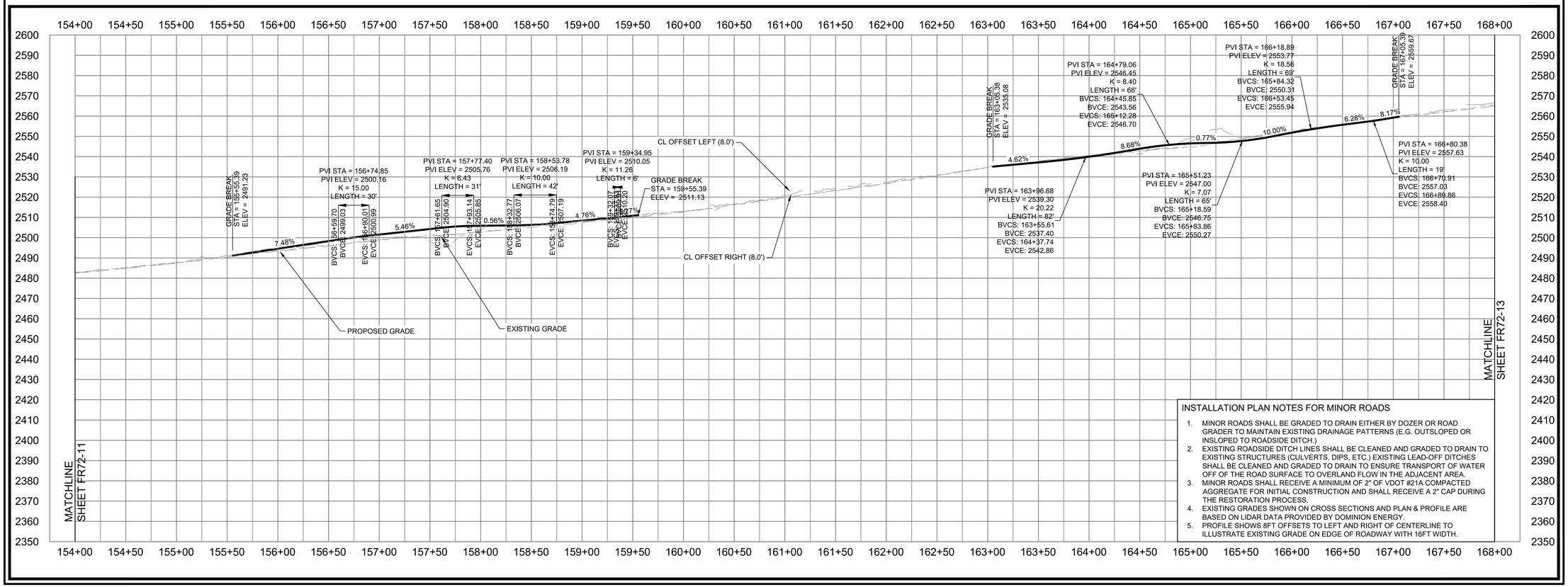


INSTALLATION PLAN



INSTALLATION PLAN NOTES FOR MINOR ROADS

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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.
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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
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

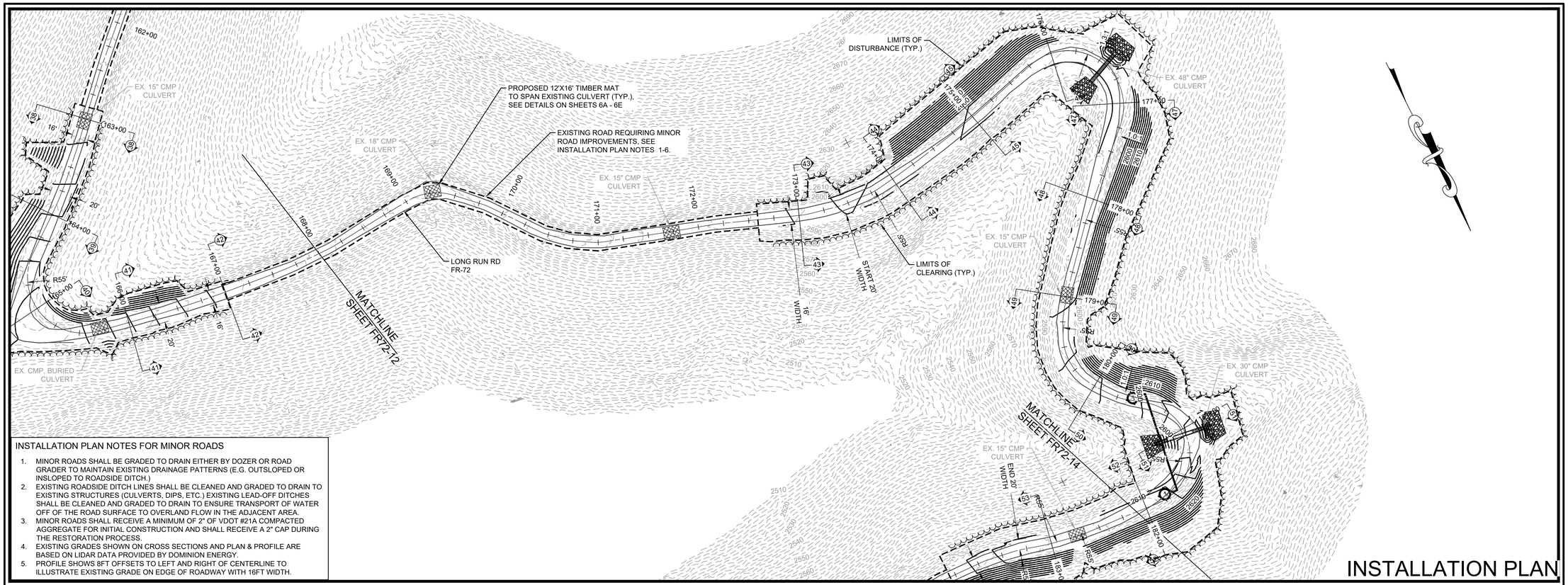
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-12

SHEET NO.



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INSTALLATION PLAN

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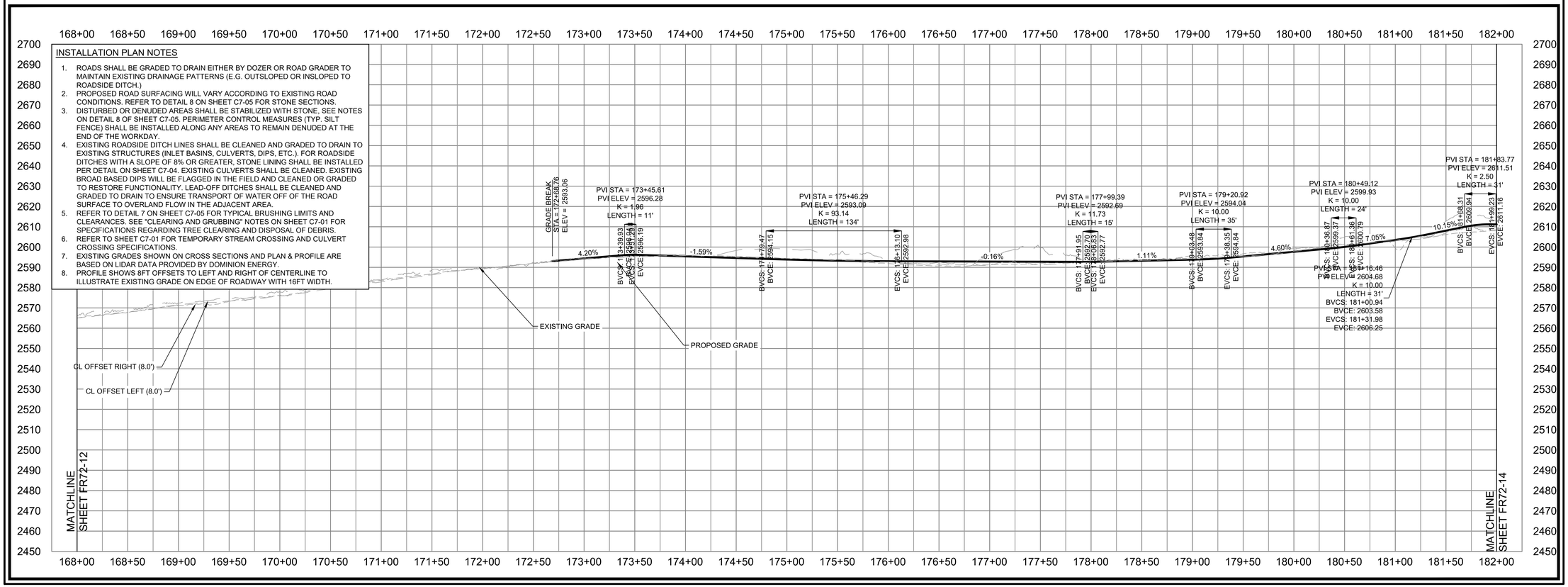

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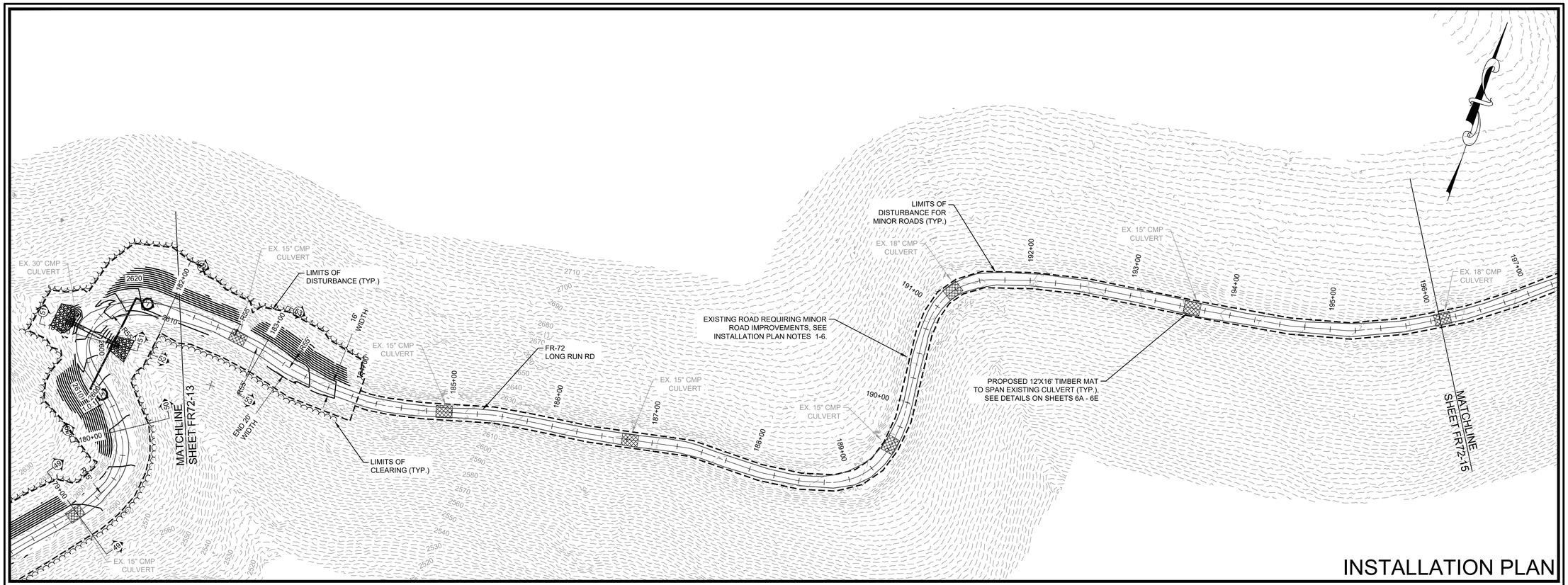
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

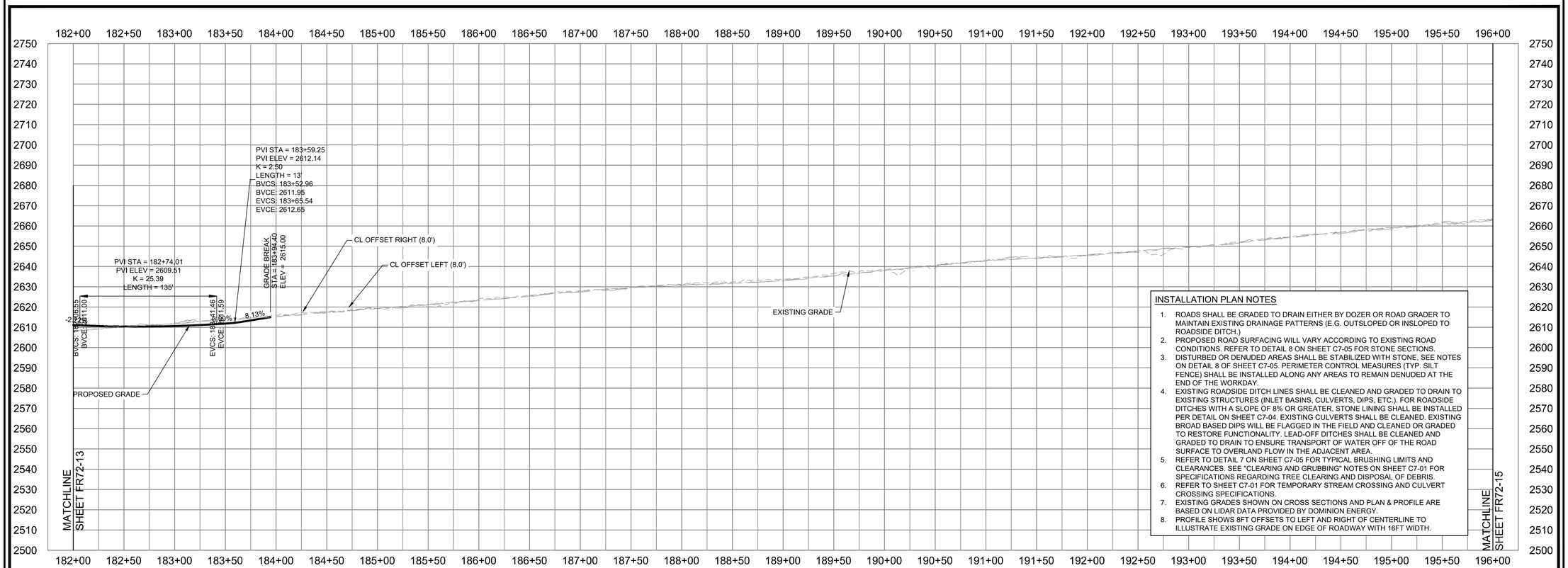
PROJECT NO. 50106442

FR72-13

SHEET NO.



INSTALLATION PLAN



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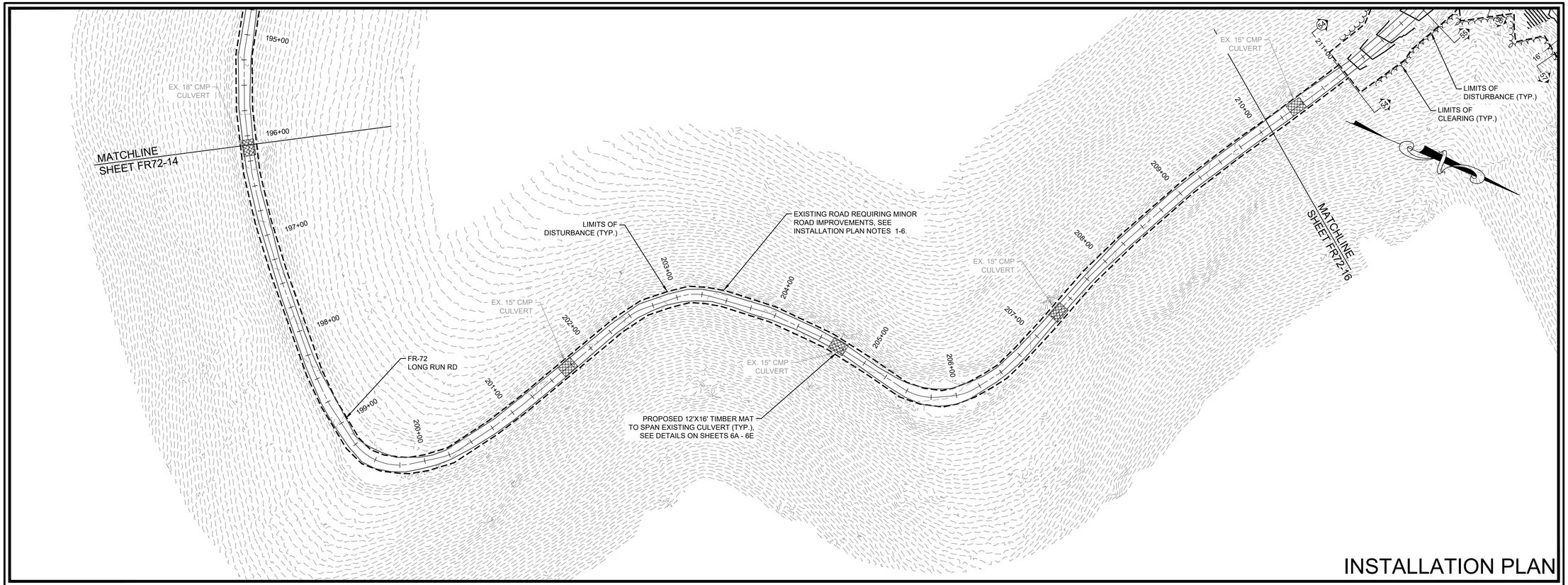
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

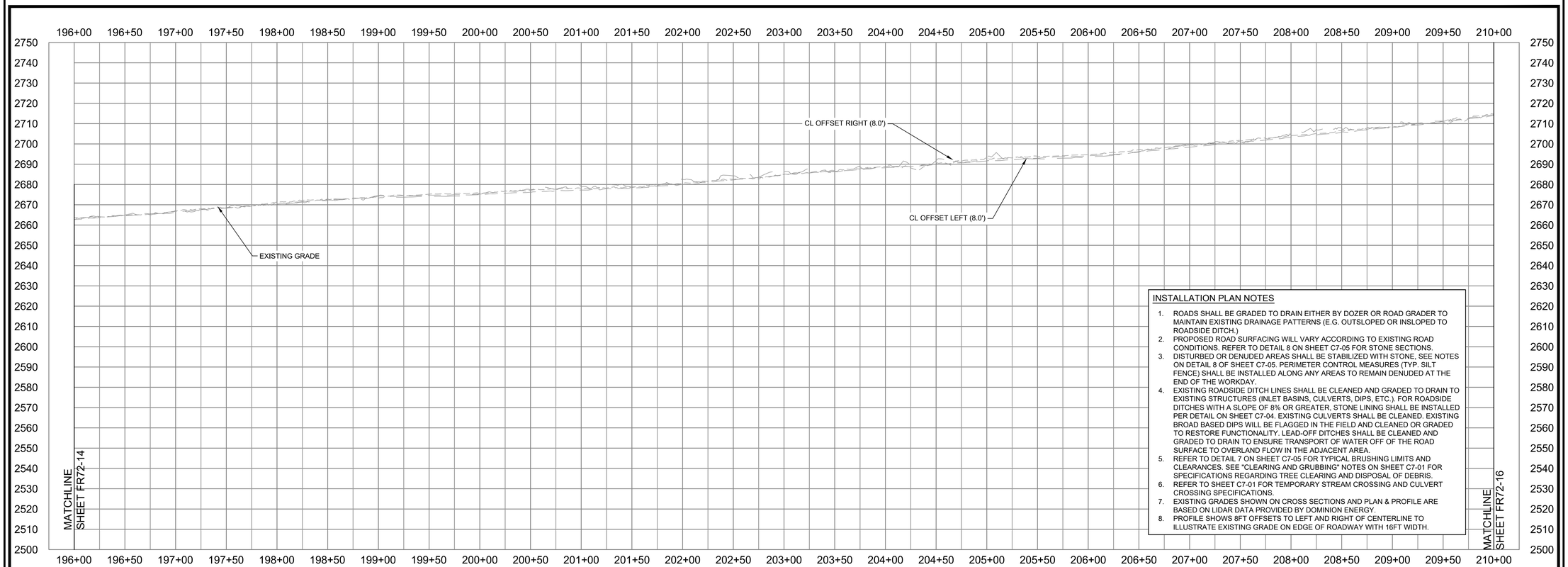
PROJECT NO. 50106442

FR72-14

SHEET NO.



INSTALLATION PLAN



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3. DISTURBED OR DENUDED AREAS SHALL BE STABILIZED WITH STONE, SEE NOTES ON DETAIL 8 OF SHEET C7-05. PERIMETER CONTROL MEASURES (TYP. SILT FENCE) SHALL BE INSTALLED ALONG ANY AREAS TO REMAIN DENUDED AT THE END OF THE WORKDAY.
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Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
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804.290.7957 (PHONE)
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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
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	07/29/2021

TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-15

SHEET NO.

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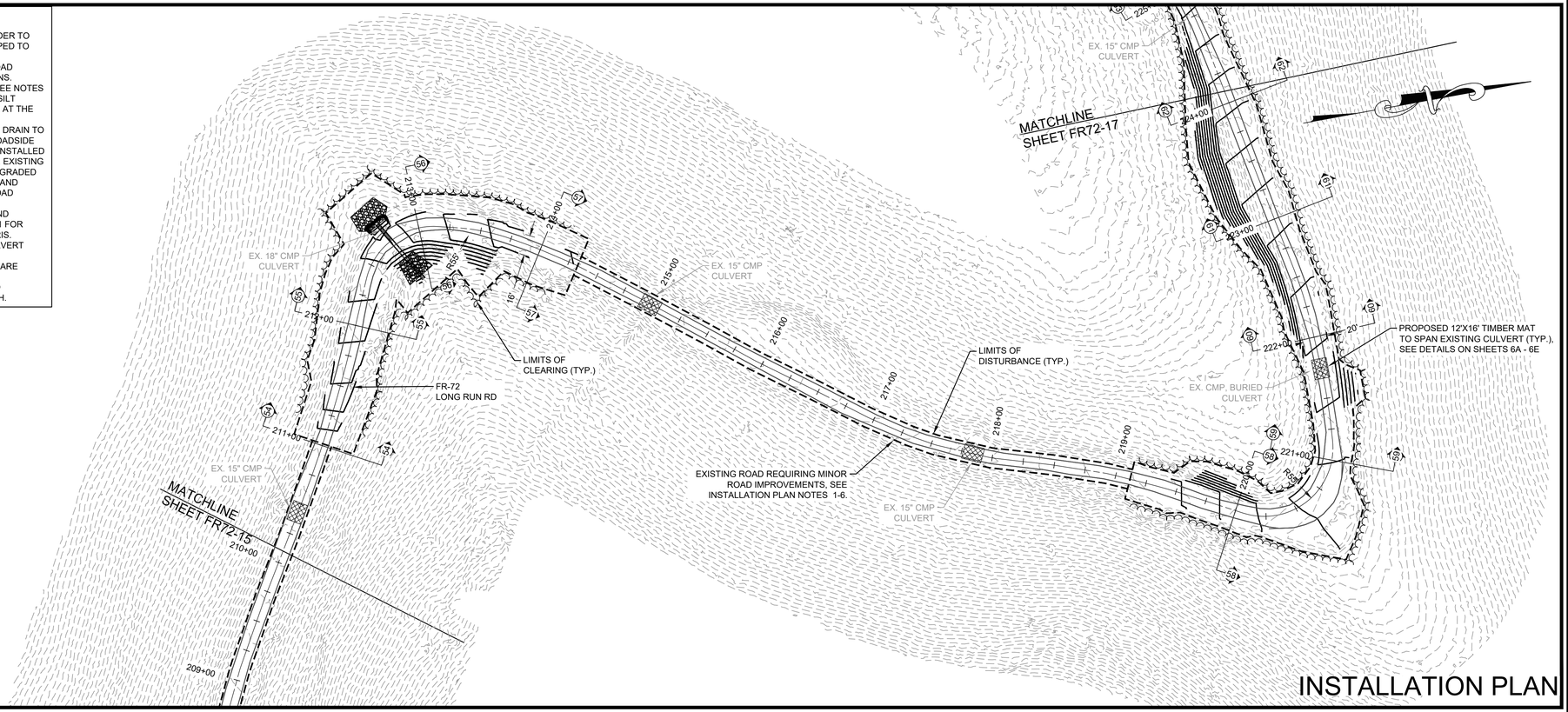
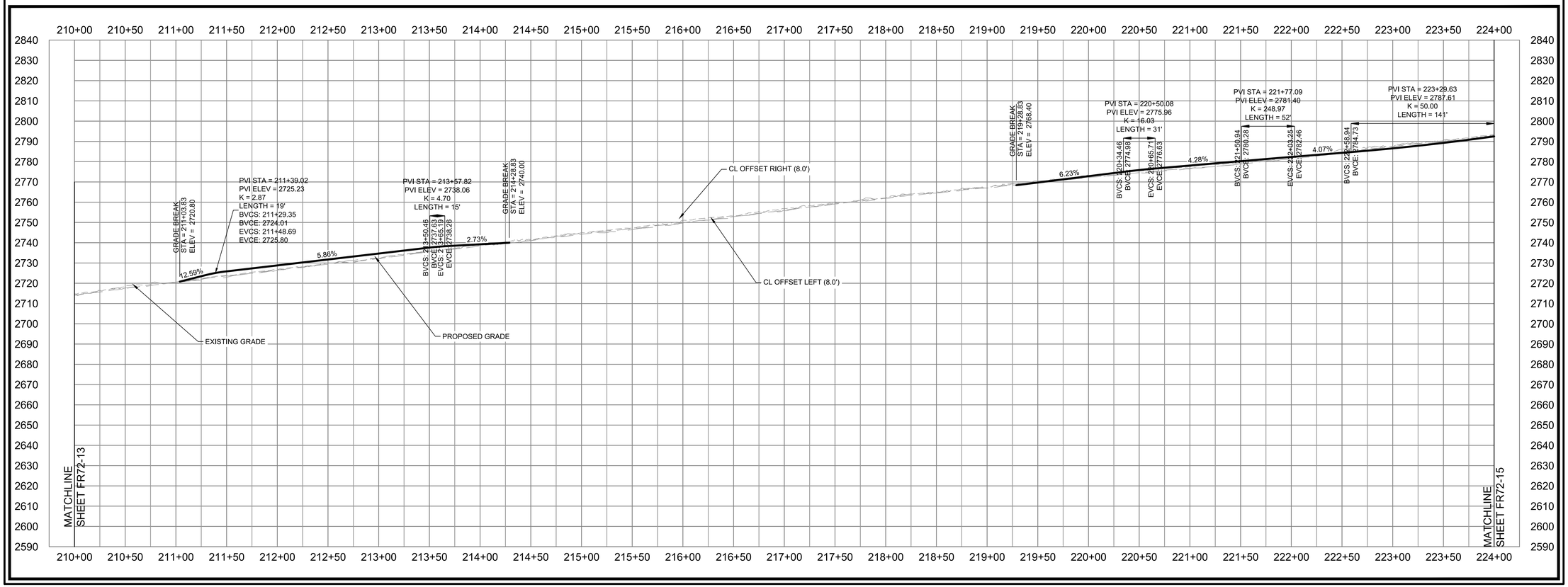


INSTALLATION PLAN



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TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-16

SHEET NO.

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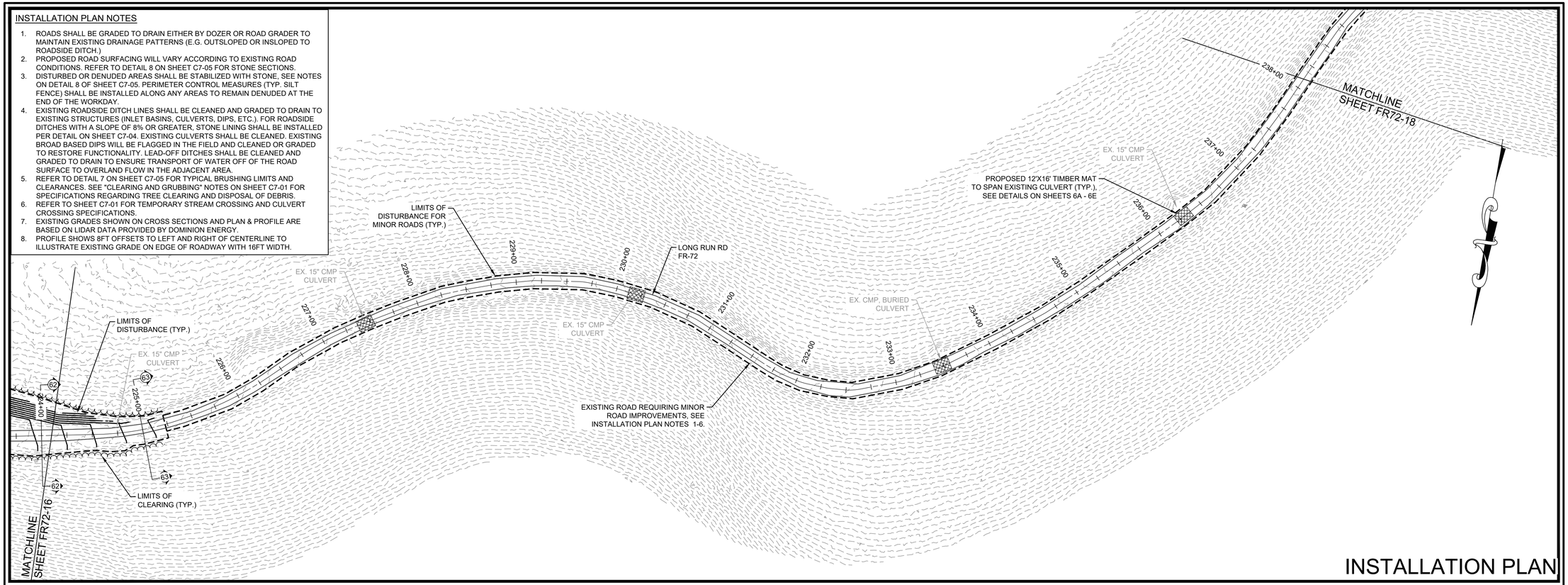
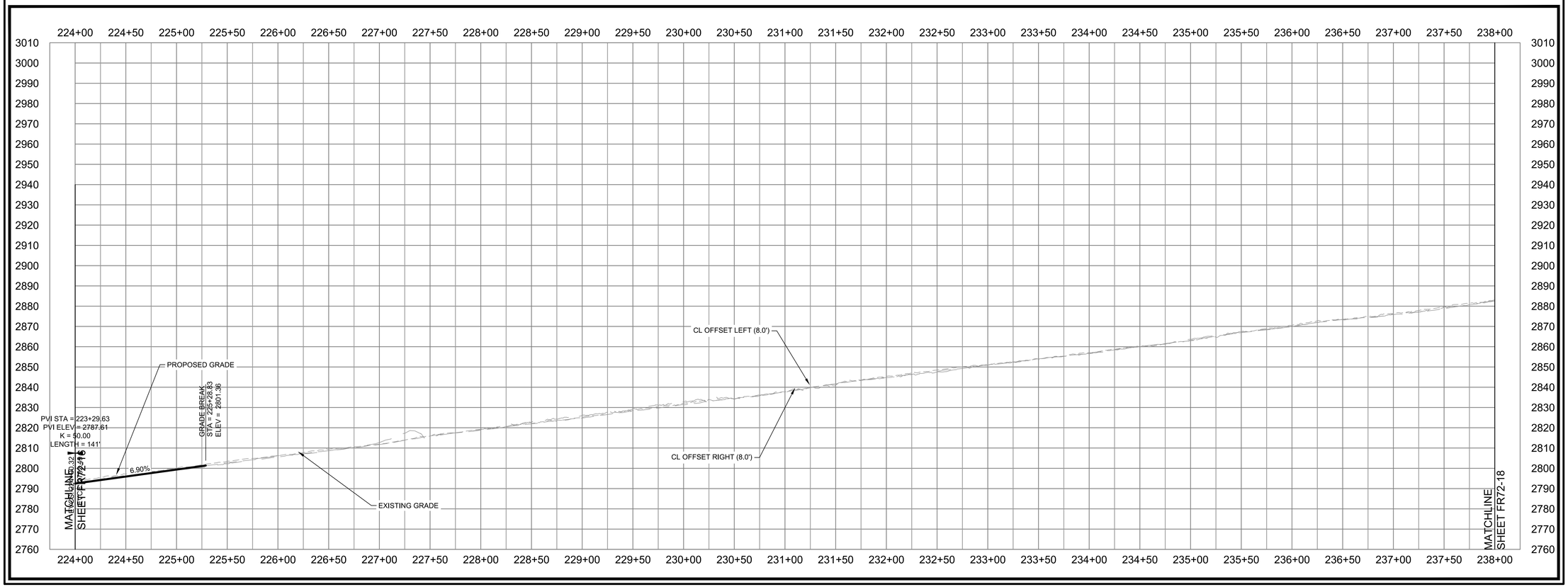


INSTALLATION PLAN



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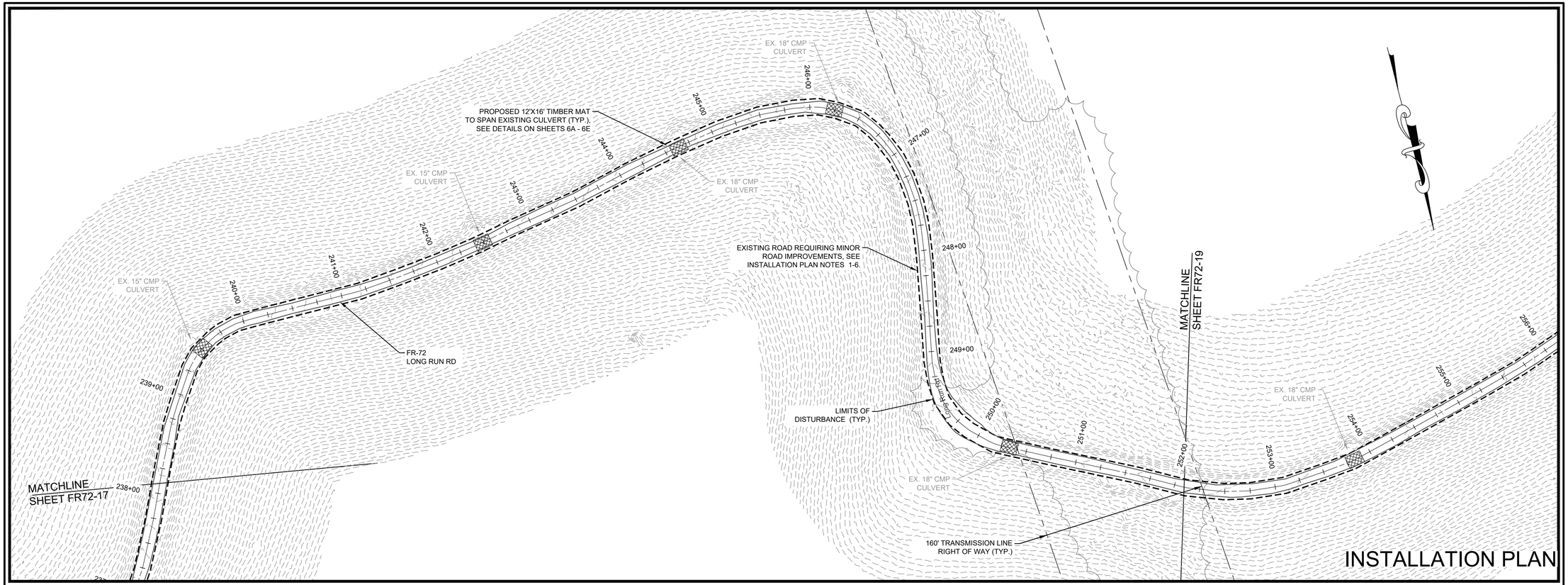
LONG RUN RD
PLAN & PROFILE

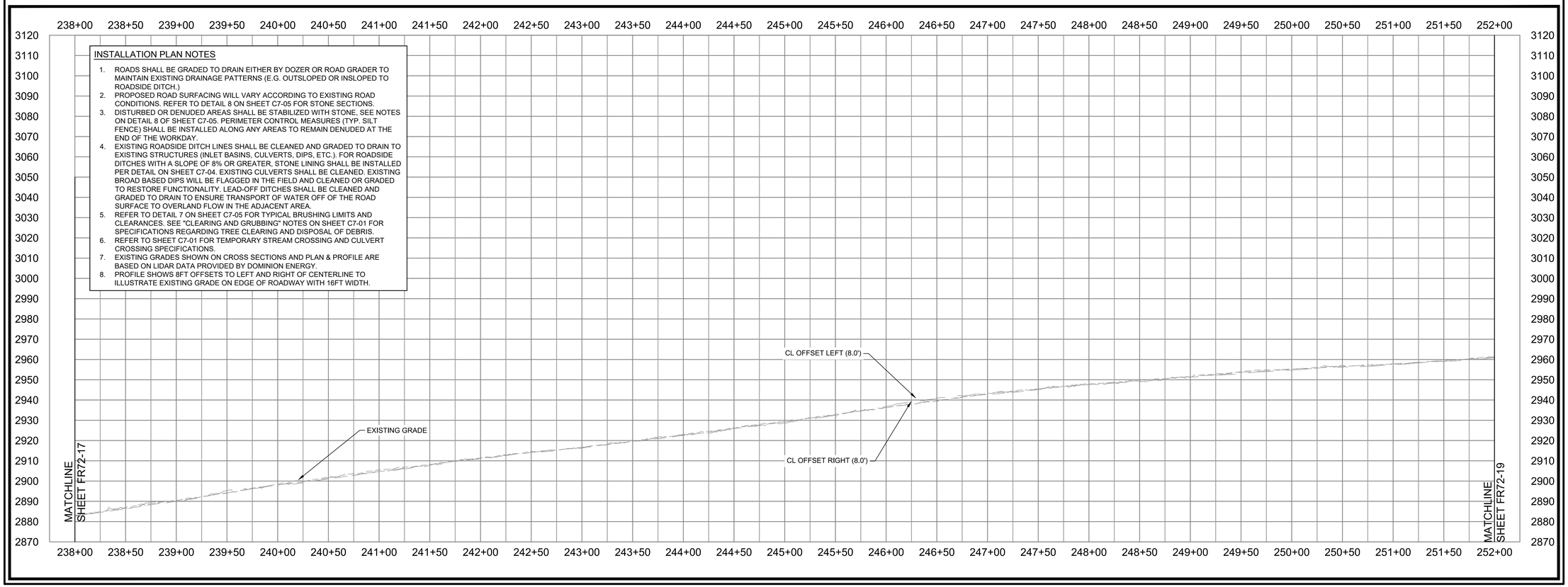
PROJECT NO. 50106442

FR72-17

SHEET NO.



INSTALLATION PLAN



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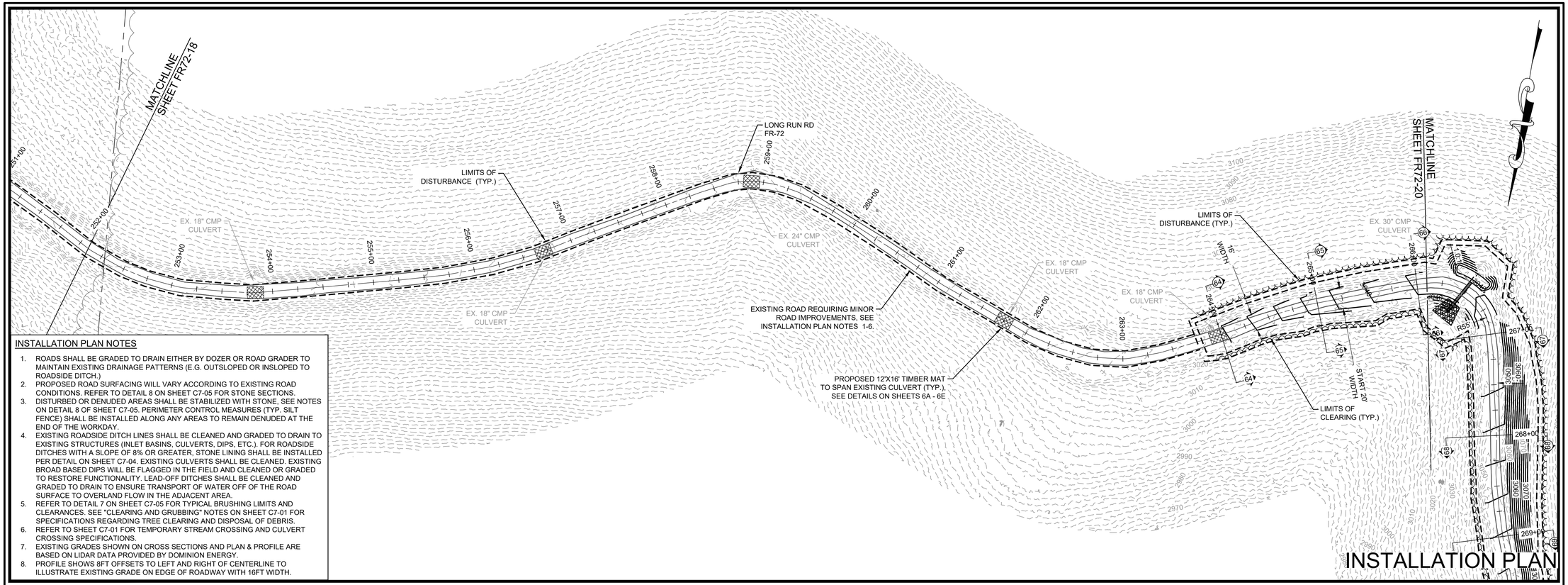
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-18

SHEET NO.



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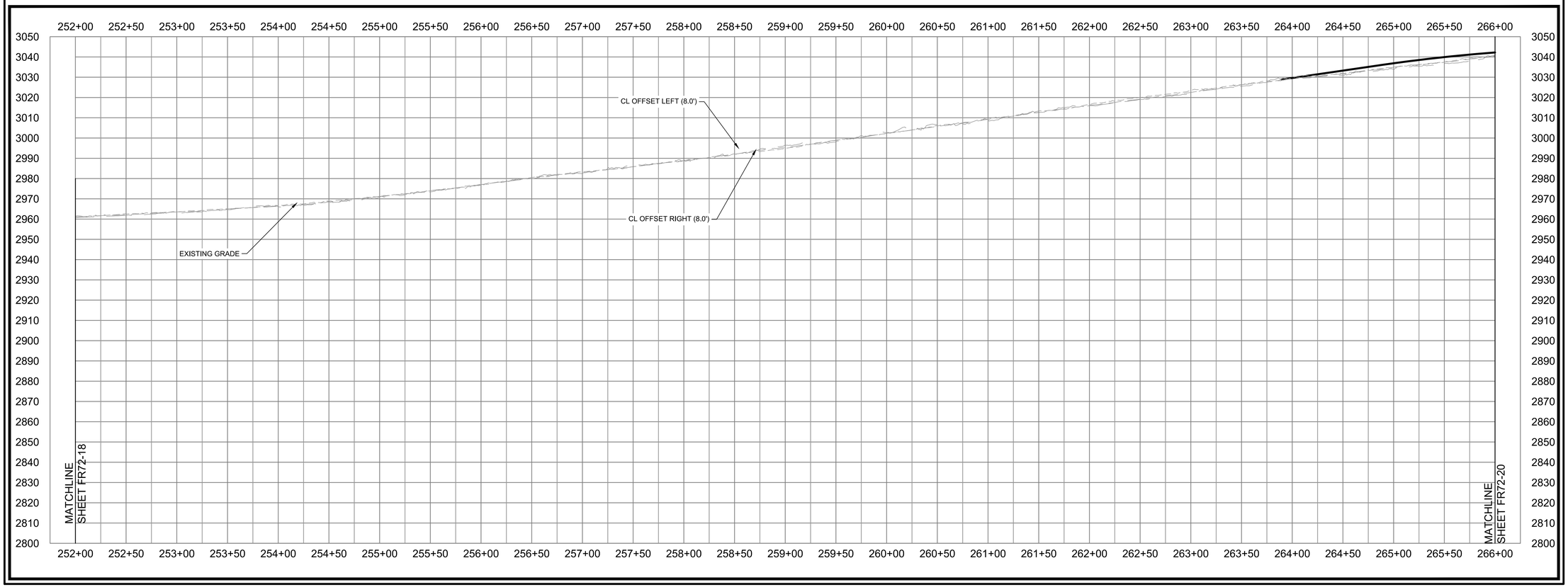

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
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SEAL

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SCALE

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HORIZONTAL SCALE
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VERTICAL SCALE

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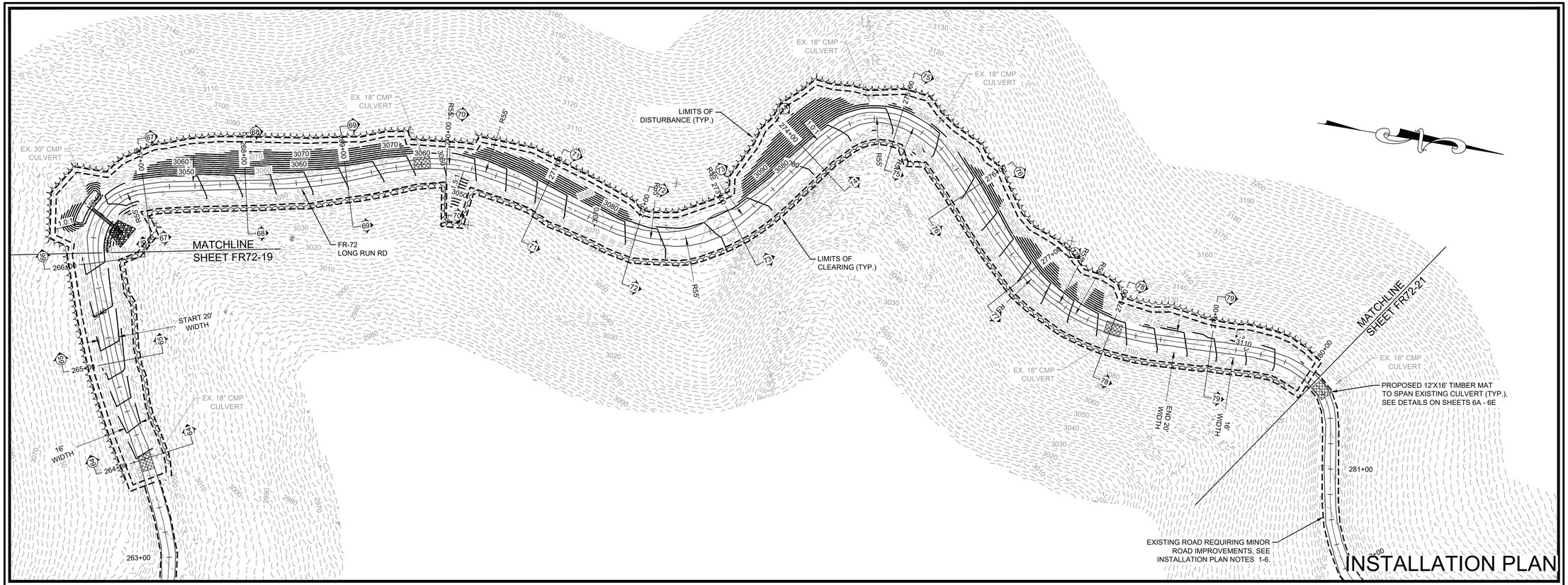
TITLE

FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-19

SHEET NO.



INSTALLATION PLAN

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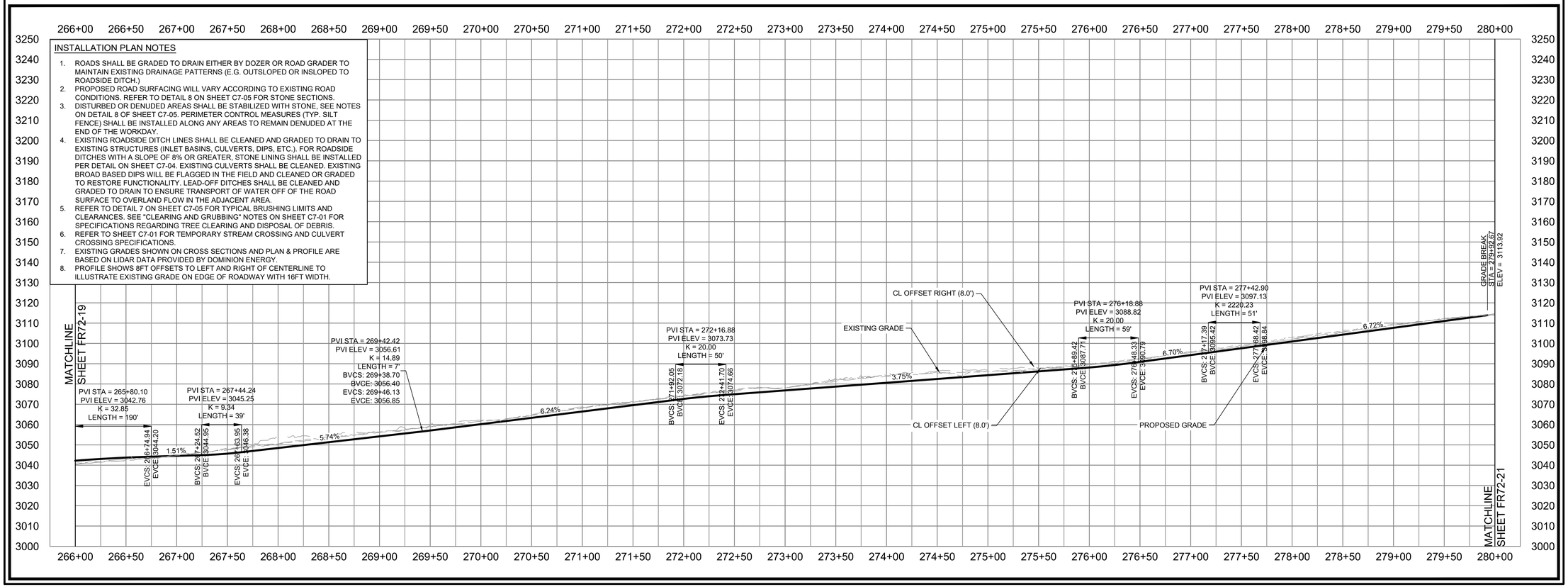

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FR72-20

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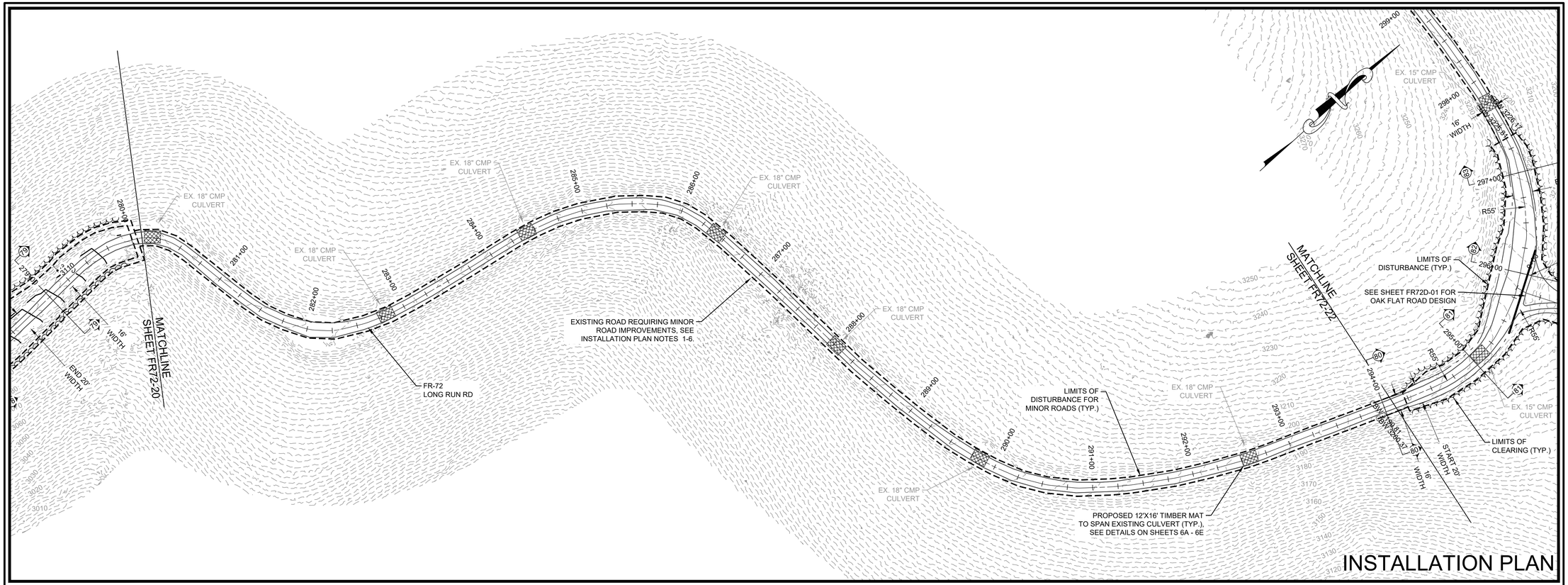
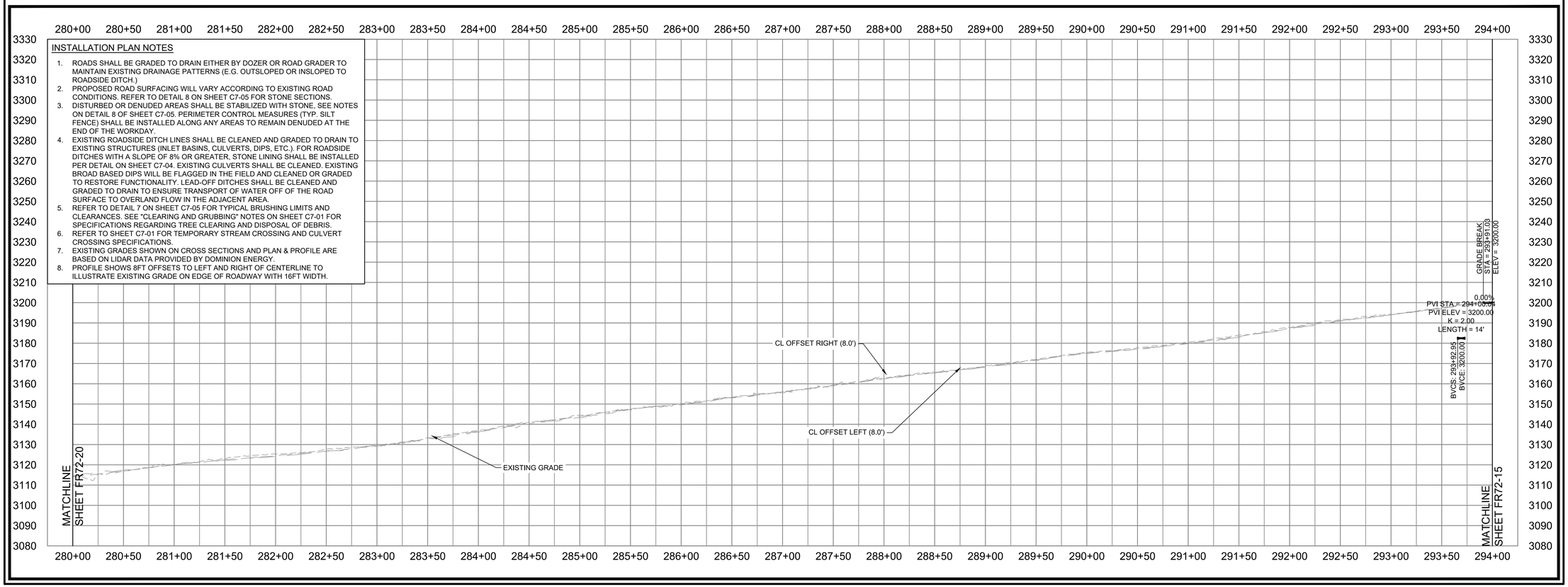


INSTALLATION PLAN



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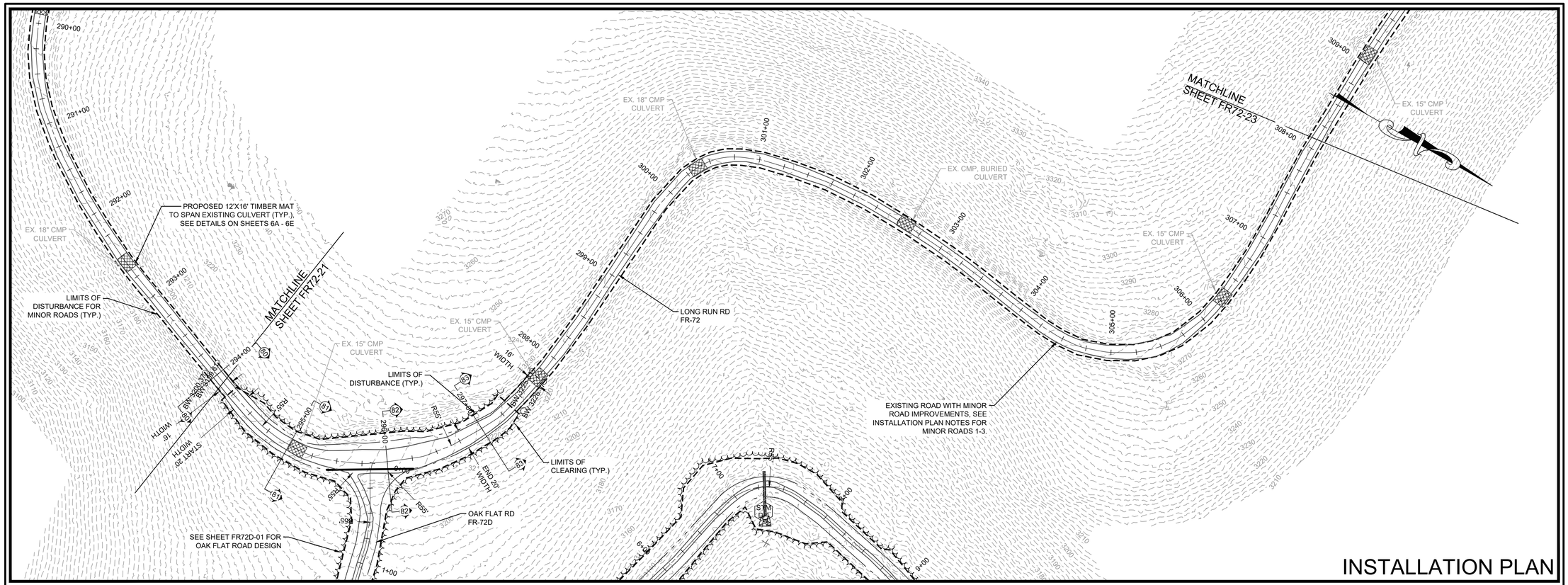

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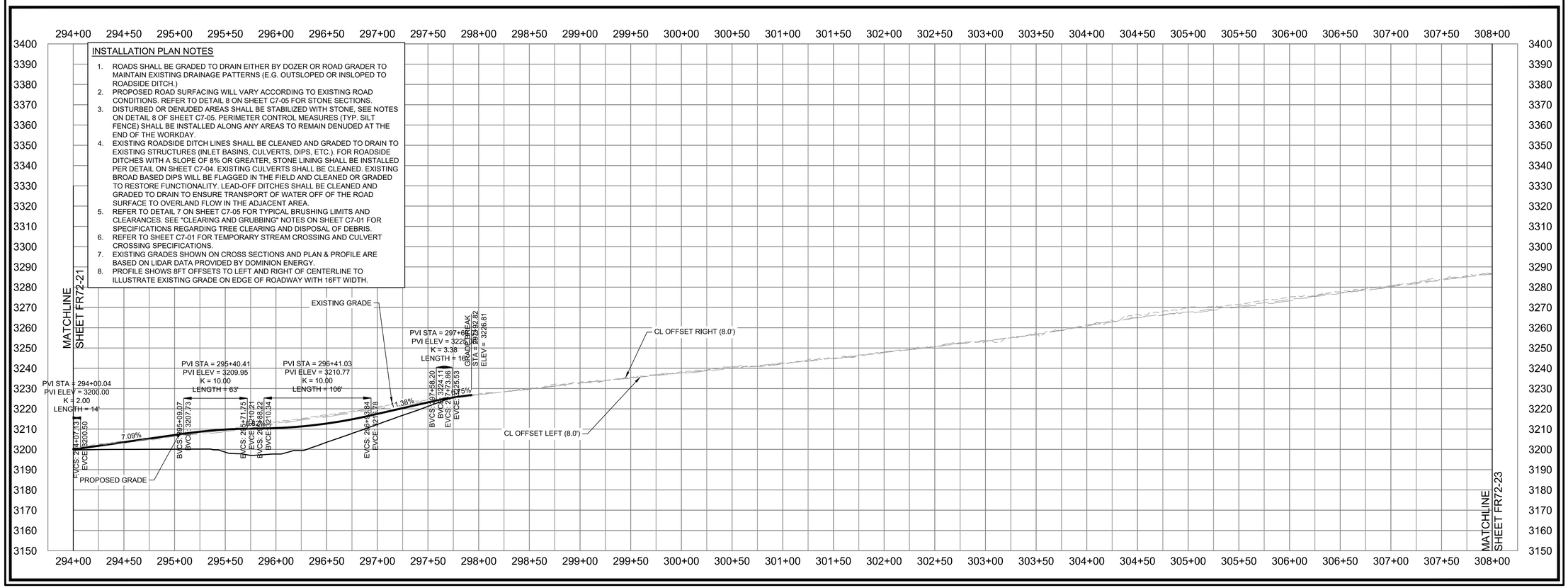

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4. EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (INLET BASINS, CULVERTS, DIPS, ETC.). FOR ROADSIDE DITCHES WITH A SLOPE OF 8% OR GREATER, STONE LINING SHALL BE INSTALLED PER DETAIL ON SHEET C7-04. EXISTING CULVERTS SHALL BE CLEANED. EXISTING BROAD BASED DIPS WILL BE FLAGGED IN THE FIELD AND CLEANED OR GRADED TO RESTORE FUNCTIONALITY. 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.
5. REFER TO DETAIL 7 ON SHEET C7-05 FOR TYPICAL BRUSHING LIMITS AND CLEARANCES. SEE "CLEARING AND GRUBBING" NOTES ON SHEET C7-01 FOR SPECIFICATIONS REGARDING TREE CLEARING AND DISPOSAL OF DEBRIS.
6. REFER TO SHEET C7-01 FOR TEMPORARY STREAM CROSSING AND CULVERT CROSSING SPECIFICATIONS.
7. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
8. 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
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

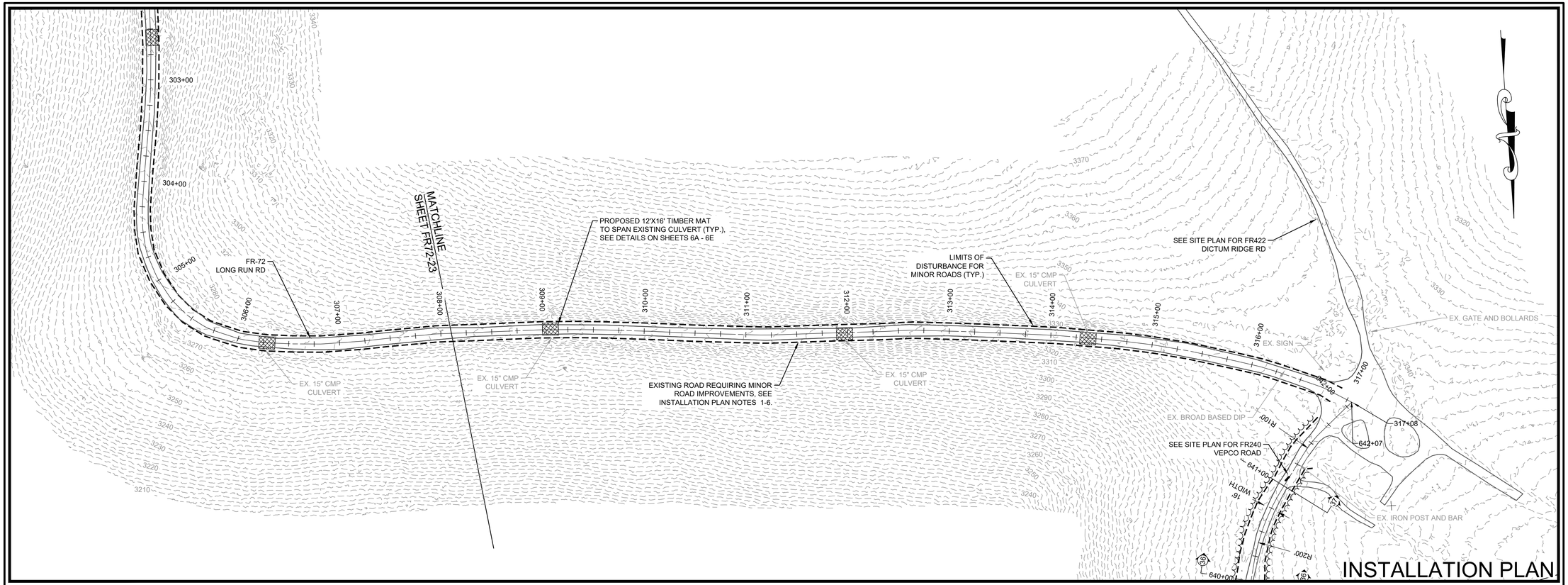
TITLE

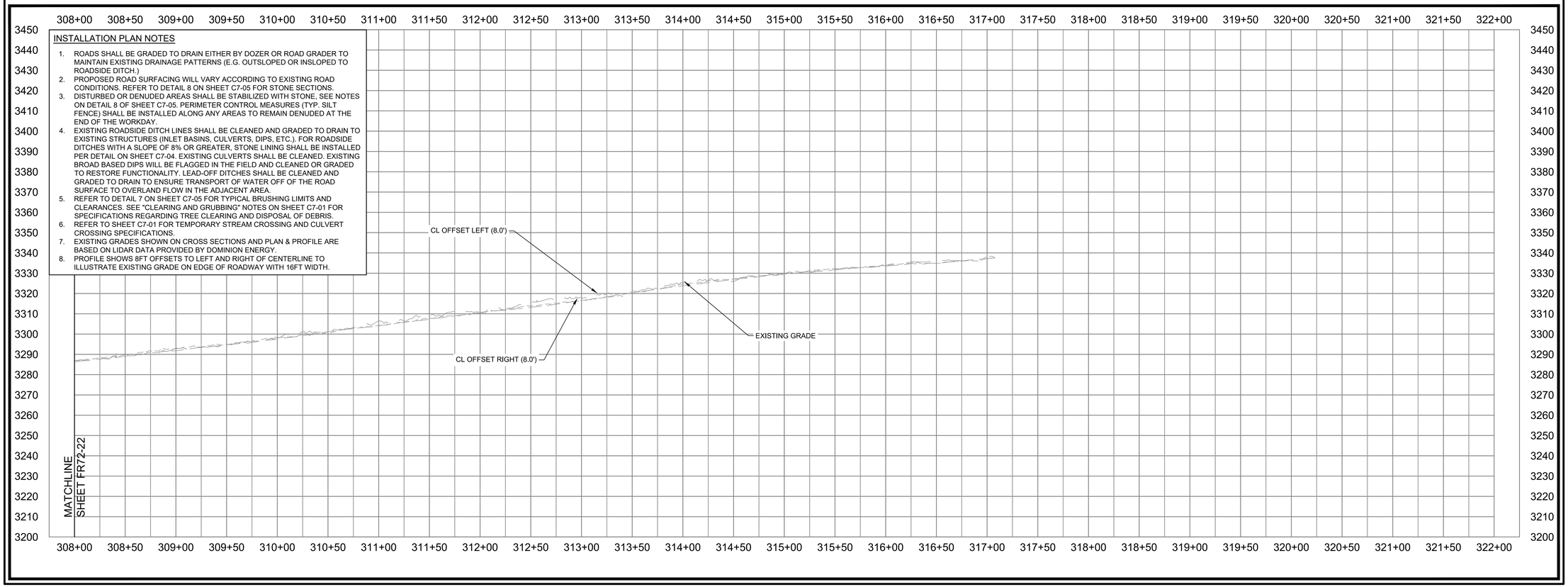
FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

FR72-22

SHEET NO.





INSTALLATION PLAN NOTES

1. 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. PROPOSED ROAD SURFACING WILL VARY ACCORDING TO EXISTING ROAD CONDITIONS. REFER TO DETAIL 8 ON SHEET C7-05 FOR STONE SECTIONS.
3. DISTURBED OR DENUDED AREAS SHALL BE STABILIZED WITH STONE, SEE NOTES ON DETAIL 8 OF SHEET C7-05. PERIMETER CONTROL MEASURES (TYP. SILT FENCE) SHALL BE INSTALLED ALONG ANY AREAS TO REMAIN DENUDED AT THE END OF THE WORKDAY.
4. EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (INLET BASINS, CULVERTS, DIPS, ETC.). FOR ROADSIDE DITCHES WITH A SLOPE OF 8% OR GREATER, STONE LINING SHALL BE INSTALLED PER DETAIL ON SHEET C7-04. EXISTING CULVERTS SHALL BE CLEANED. EXISTING BROAD BASED DIPS WILL BE FLAGGED IN THE FIELD AND CLEANED OR GRADED TO RESTORE FUNCTIONALITY. 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.
5. REFER TO DETAIL 7 ON SHEET C7-05 FOR TYPICAL BRUSHING LIMITS AND CLEARANCES. SEE "CLEARING AND GRUBBING" NOTES ON SHEET C7-01 FOR SPECIFICATIONS REGARDING TREE CLEARING AND DISPOSAL OF DEBRIS.
6. REFER TO SHEET C7-01 FOR TEMPORARY STREAM CROSSING AND CULVERT CROSSING SPECIFICATIONS.
7. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
8. 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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SEAL

PRELIMINARY
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SCALE

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

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1	07/29/21	ARB	FOR REVIEW
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TITLE

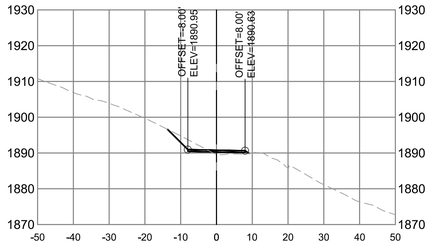
FR-72
LONG RUN RD
PLAN & PROFILE

PROJECT NO. 50106442

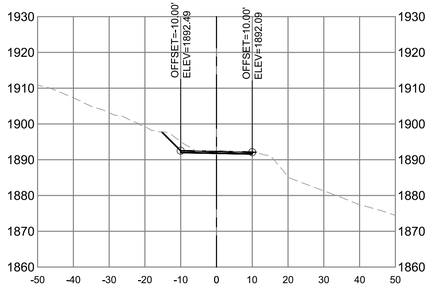
FR72-23

SHEET NO.

FR72 LONG RUN RD #1, STATION 35+00.0



FR72 LONG RUN RD #2, STATION 36+00.0



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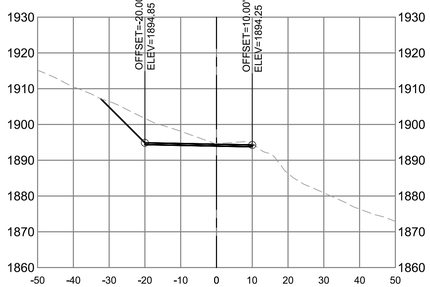
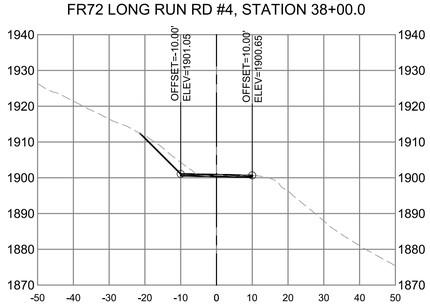
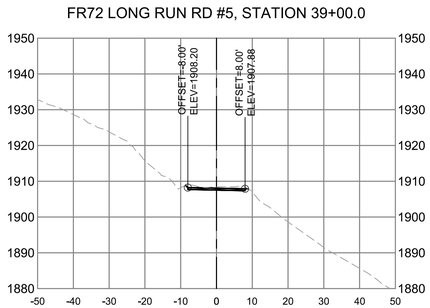


FR72 LONG RUN RD #4, STATION 38+00.0



FR72 LONG RUN RD #5, STATION 39+00.0



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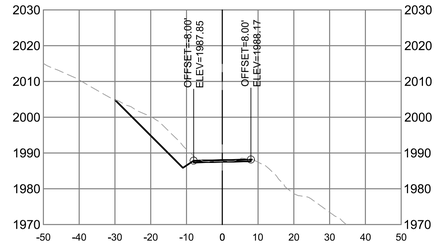

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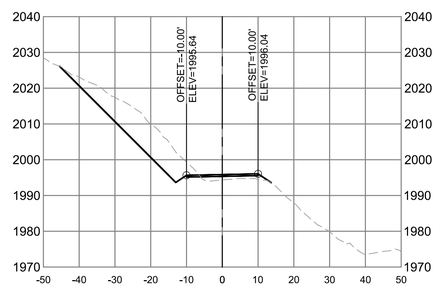
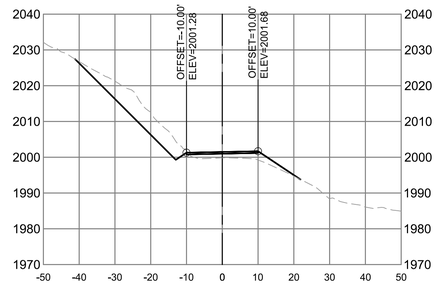


FR72 LONG RUN RD #8, STATION 53+00.0



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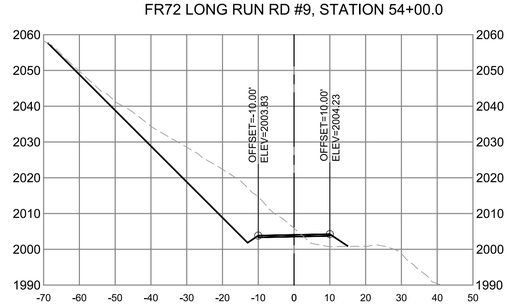

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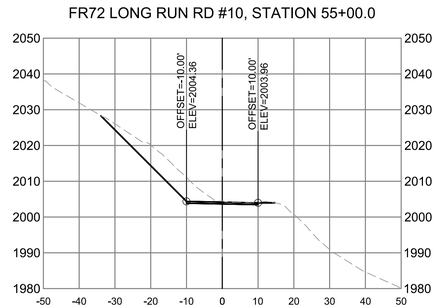

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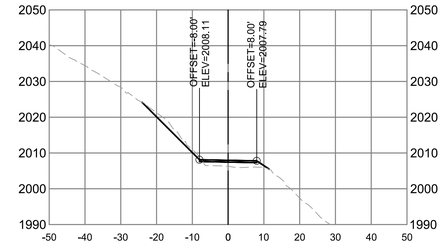

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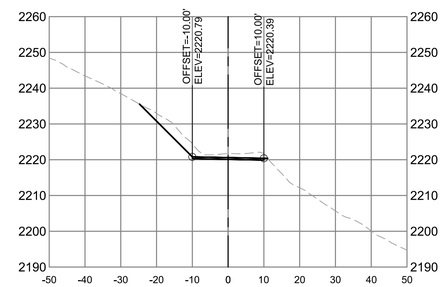

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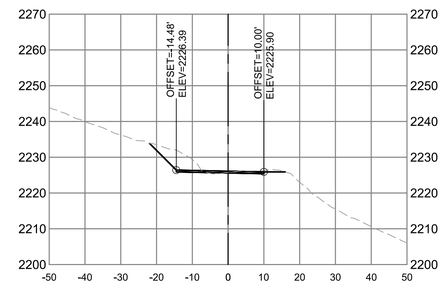

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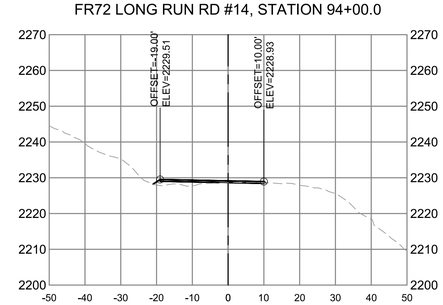
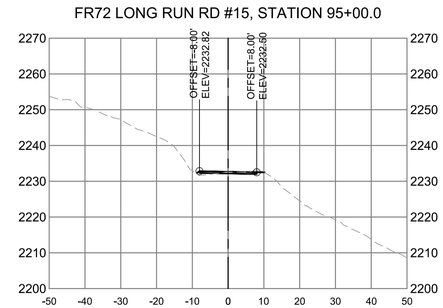
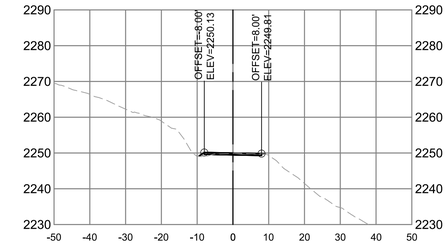


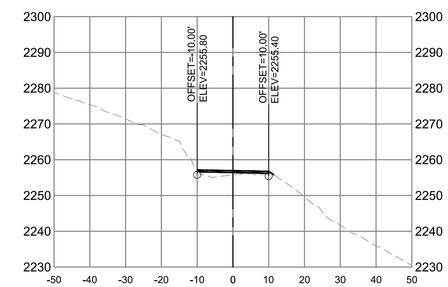
FR72 LONG RUN RD #15, STATION 95+00.0



FR72 LONG RUN RD #16, STATION 99+00.0



FR72 LONG RUN RD #17, STATION 100+00.0



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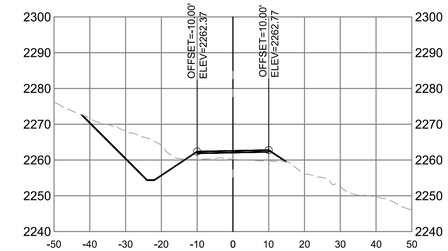

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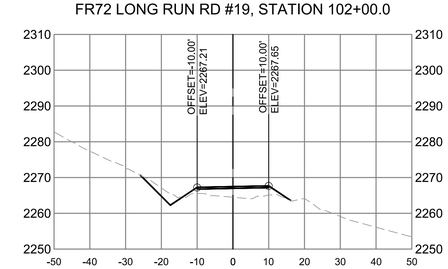
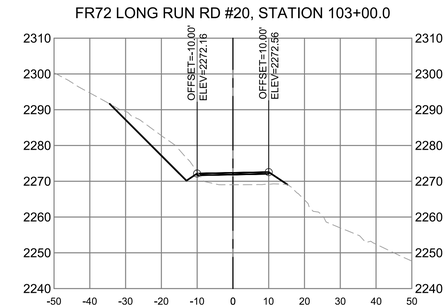


FR72 LONG RUN RD #20, STATION 103+00.0



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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

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

TITLE

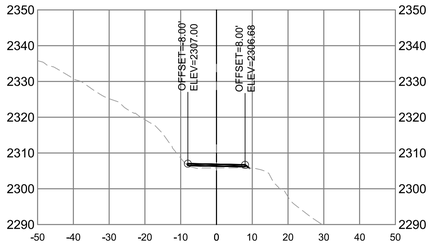
FR-72
LONG RUN RD
CROSS SECTIONS

PROJECT NO. 50106442

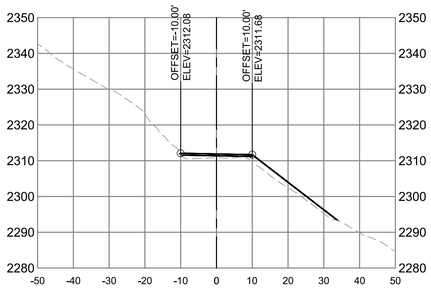
FR72-24

SHEET NO.

FR72 LONG RUN RD #21, STATION 112+00.0



FR72 LONG RUN RD #22, STATION 113+00.0



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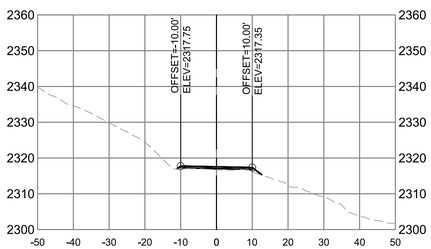

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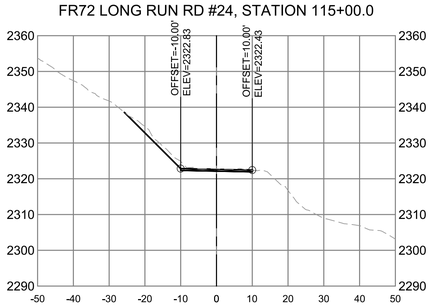

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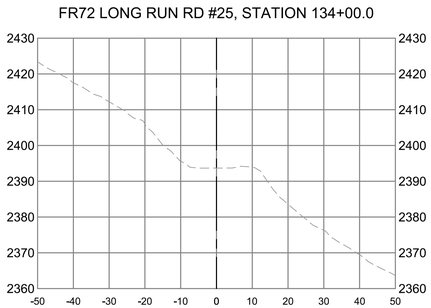

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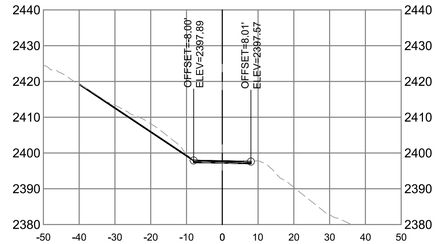

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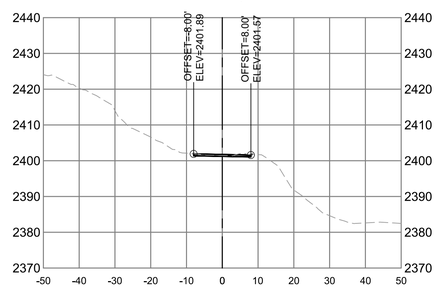

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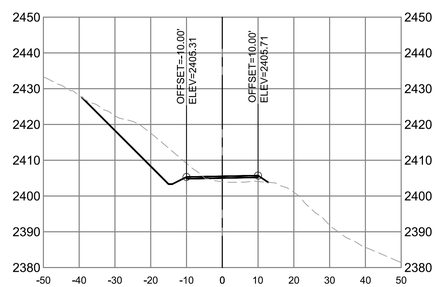

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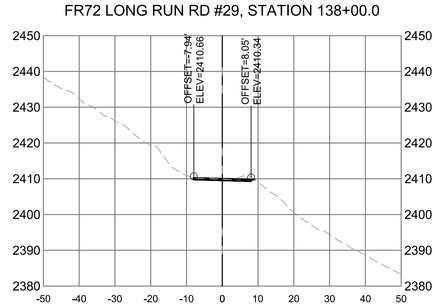
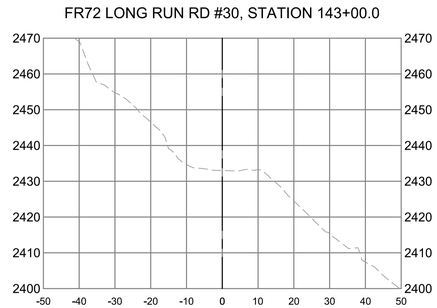
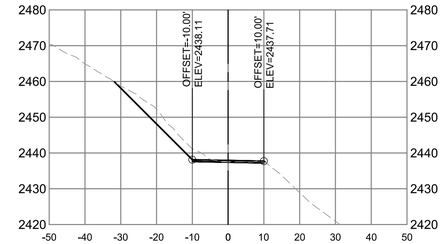


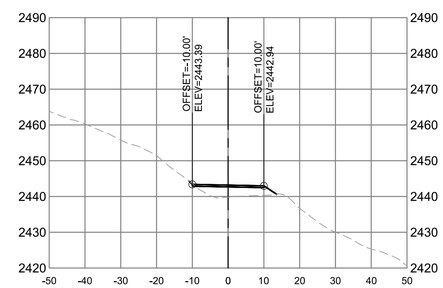
FR72 LONG RUN RD #30, STATION 143+00.0



FR72 LONG RUN RD #31, STATION 144+00.0



FR72 LONG RUN RD #32, STATION 145+00.0



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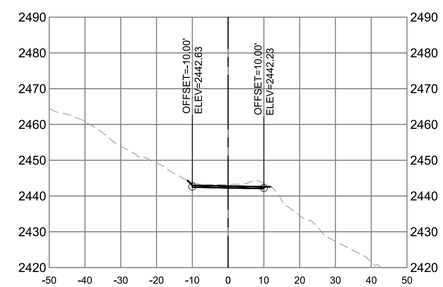

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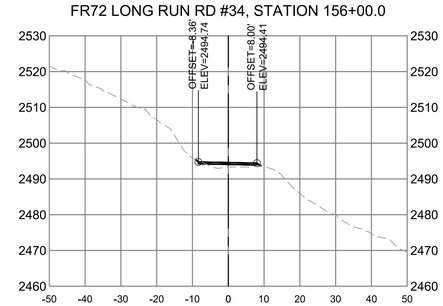

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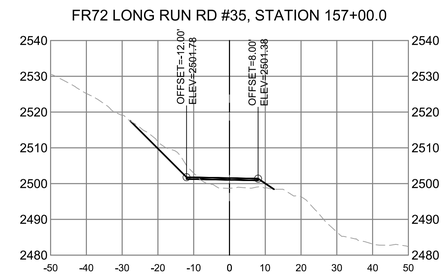

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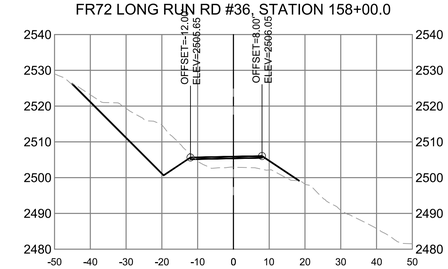
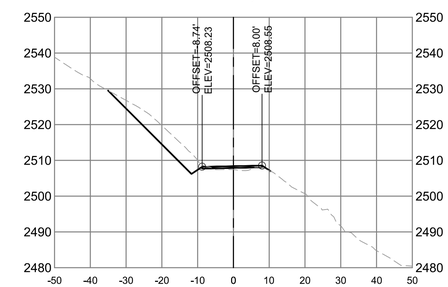


FR72 LONG RUN RD #37, STATION 159+00.0



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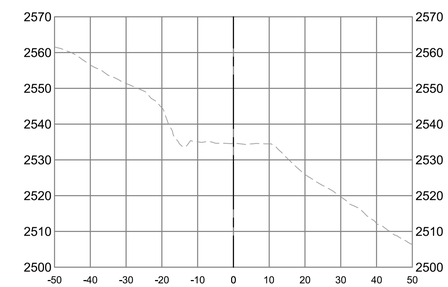

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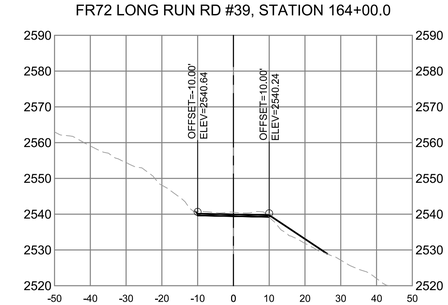

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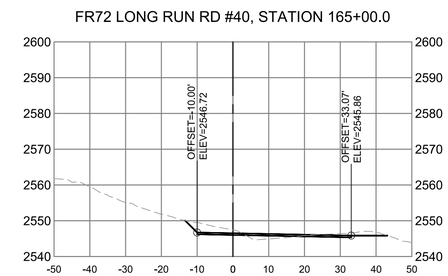

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PROJECT TL 550
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WEST VIRGINIA & VIRGINIA

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

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

TITLE

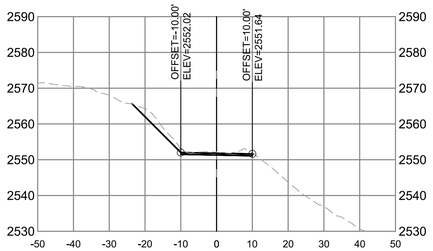
FR-72
LONG RUN RD
CROSS SECTIONS

PROJECT NO. 50106442

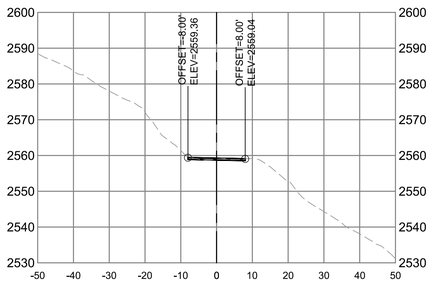
FR72-25

SHEET NO.

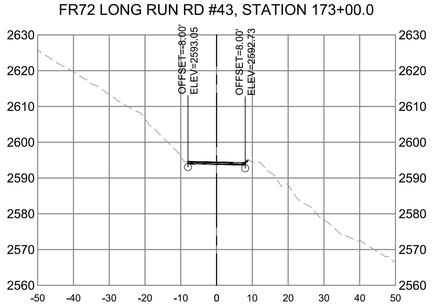
FR72 LONG RUN RD #41, STATION 166+00.0



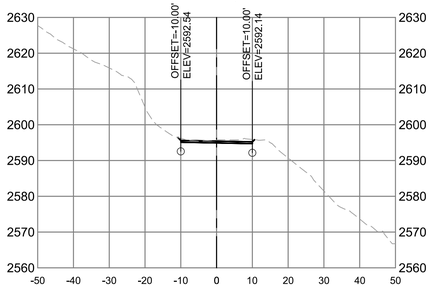
FR72 LONG RUN RD #42, STATION 167+00.0



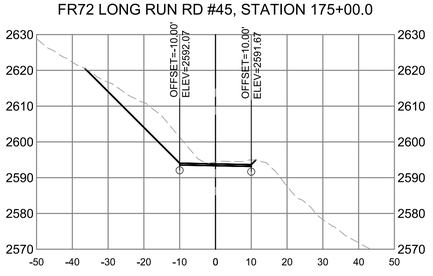
FR72 LONG RUN RD #43, STATION 173+00.0



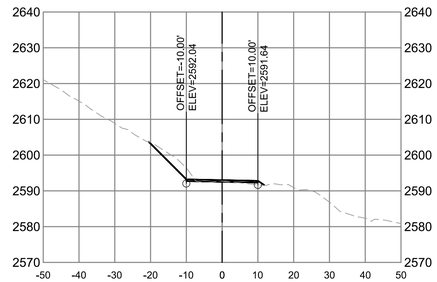
FR72 LONG RUN RD #44, STATION 174+00.0



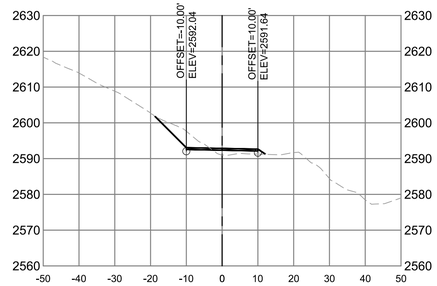
FR72 LONG RUN RD #45, STATION 175+00.0



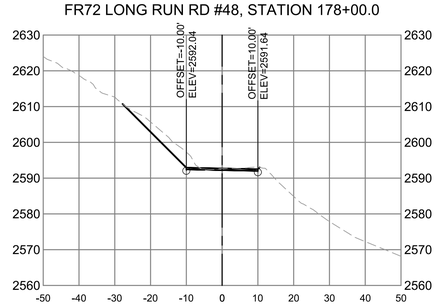
FR72 LONG RUN RD #46, STATION 176+00.0



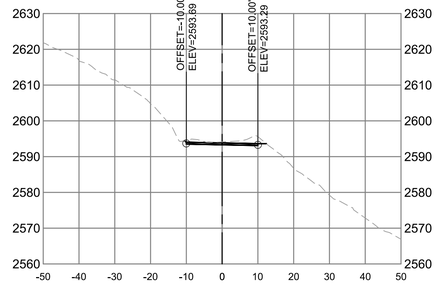
FR72 LONG RUN RD #47, STATION 177+00.0



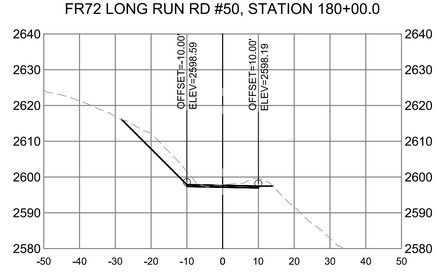
FR72 LONG RUN RD #48, STATION 178+00.0



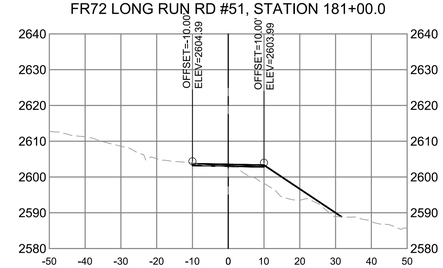
FR72 LONG RUN RD #49, STATION 179+00.0



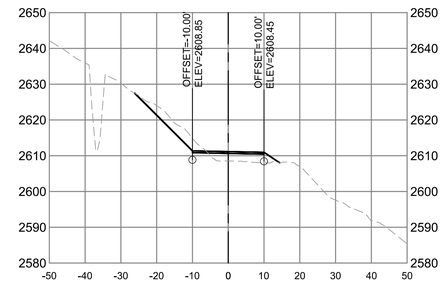
FR72 LONG RUN RD #50, STATION 180+00.0



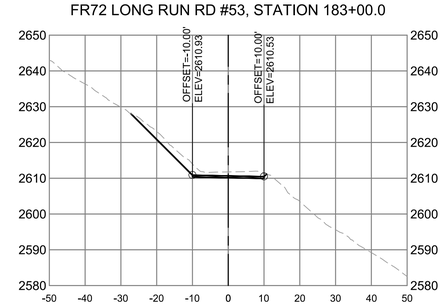
FR72 LONG RUN RD #51, STATION 181+00.0



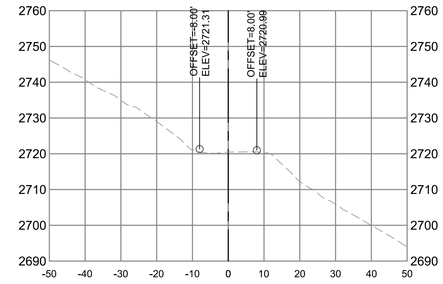
FR72 LONG RUN RD #52, STATION 182+00.0



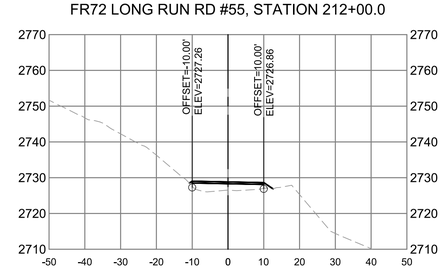
FR72 LONG RUN RD #53, STATION 183+00.0



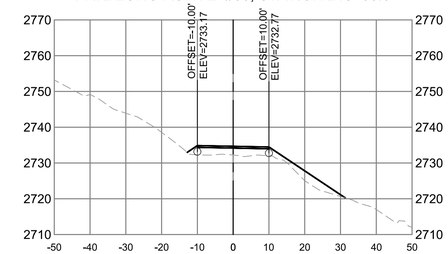
FR72 LONG RUN RD #54, STATION 211+00.0



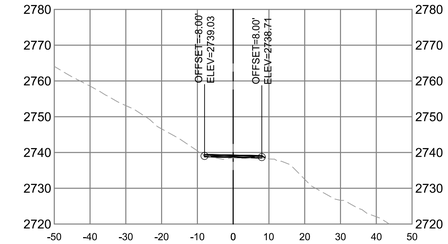
FR72 LONG RUN RD #55, STATION 212+00.0



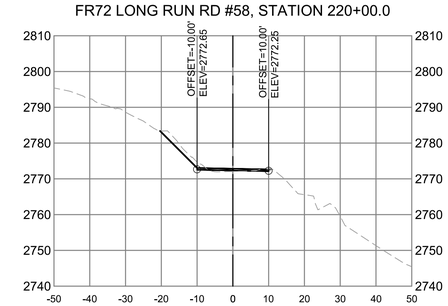
FR72 LONG RUN RD #56, STATION 213+00.0



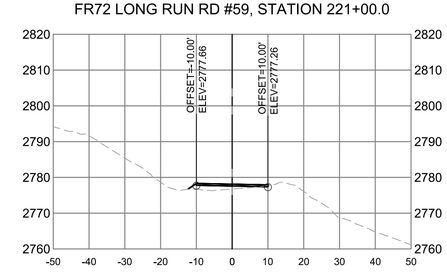
FR72 LONG RUN RD #57, STATION 214+00.0



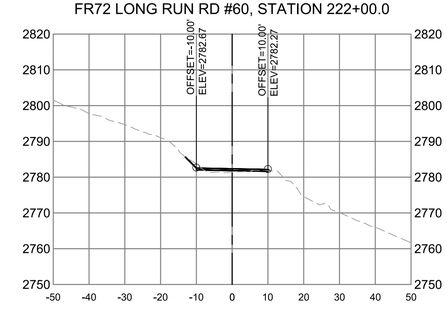
FR72 LONG RUN RD #58, STATION 220+00.0



FR72 LONG RUN RD #59, STATION 221+00.0



FR72 LONG RUN RD #60, STATION 222+00.0



Dewberry

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

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CONSTRUCTION DOCUMENTS
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DATE 07/29/2021

TITLE

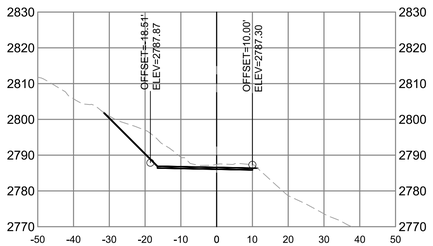
FR-72
LONG RUN RD
CROSS SECTIONS

PROJECT NO. 50106442

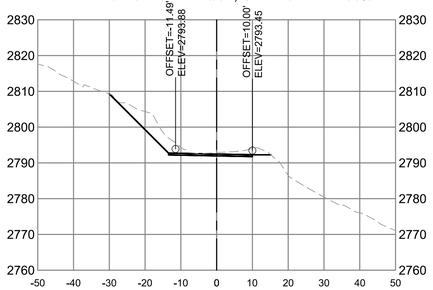
FR72-26

SHEET NO.

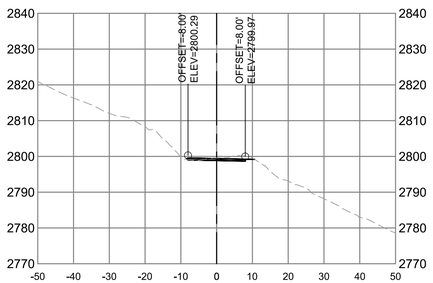
FR72 LONG RUN RD #61, STATION 223+00.0



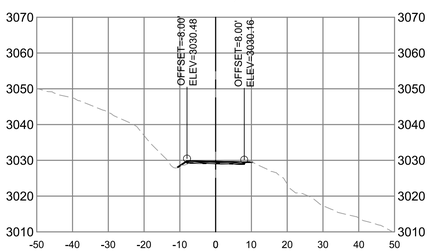
FR72 LONG RUN RD #62, STATION 224+00.0



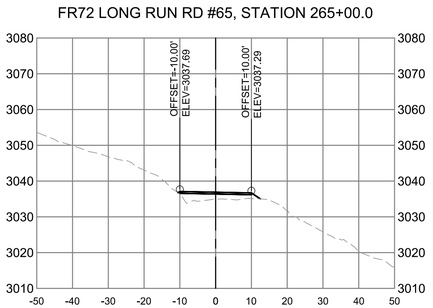
FR72 LONG RUN RD #63, STATION 225+00.0



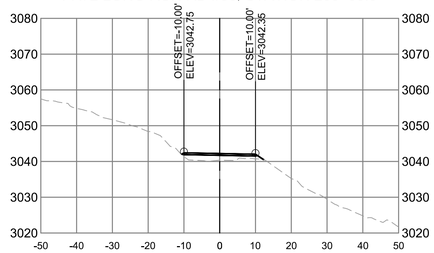
FR72 LONG RUN RD #64, STATION 264+00.0



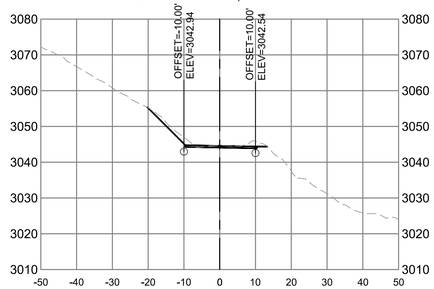
FR72 LONG RUN RD #65, STATION 265+00.0



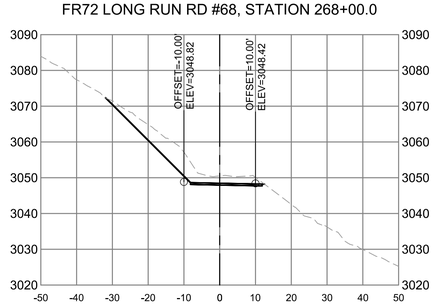
FR72 LONG RUN RD #66, STATION 266+00.0



FR72 LONG RUN RD #67, STATION 267+00.0

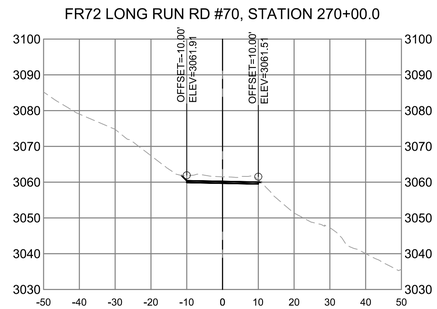


FR72 LONG RUN RD #68, STATION 268+00.0

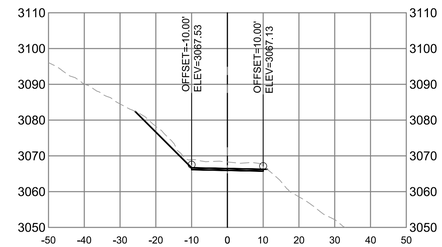


FR72 LONG RUN RD #69, STATION 269+00.0

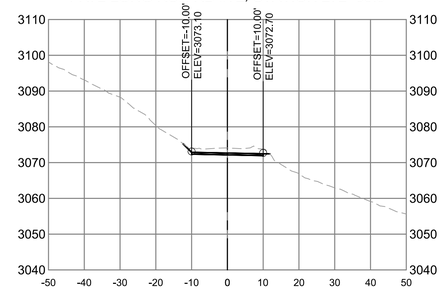
FR72 LONG RUN RD #70, STATION 270+00.0



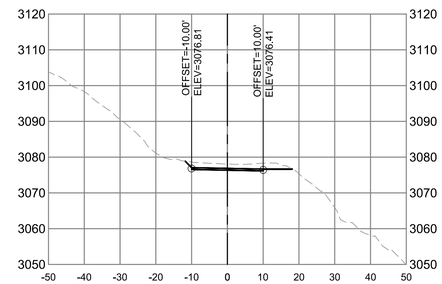
FR72 LONG RUN RD #71, STATION 271+00.0



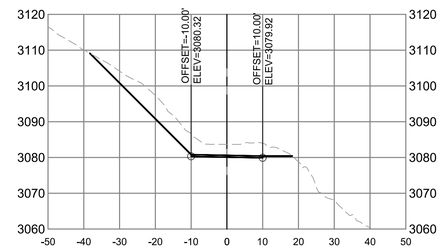
FR72 LONG RUN RD #72, STATION 272+00.0



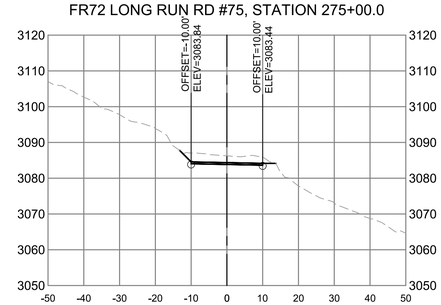
FR72 LONG RUN RD #73, STATION 273+00.0



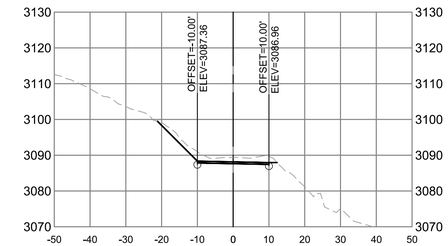
FR72 LONG RUN RD #74, STATION 274+00.0



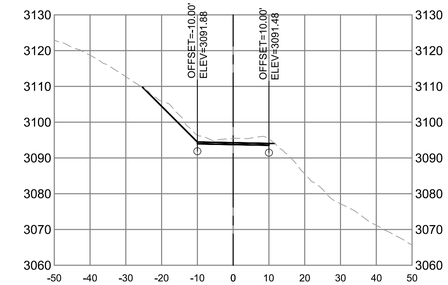
FR72 LONG RUN RD #75, STATION 275+00.0



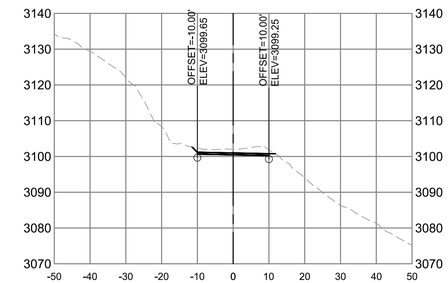
FR72 LONG RUN RD #76, STATION 276+00.0



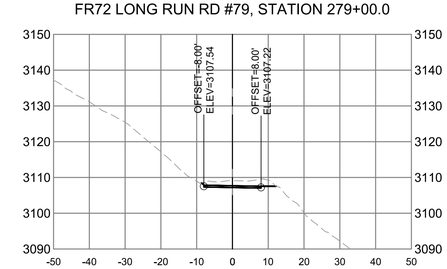
FR72 LONG RUN RD #77, STATION 277+00.0



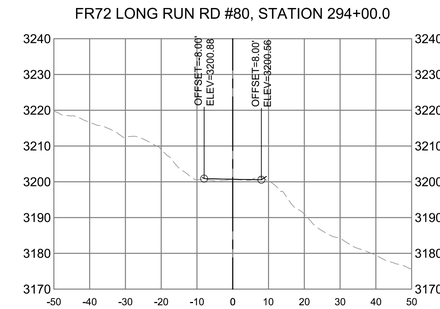
FR72 LONG RUN RD #78, STATION 278+00.0



FR72 LONG RUN RD #79, STATION 279+00.0



FR72 LONG RUN RD #80, STATION 294+00.0



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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GEORGE WASHINGTON NATIONAL FOREST
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SCALE
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TITLE

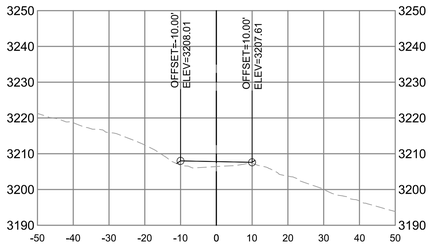
FR-72
LONG RUN RD
CROSS SECTIONS

PROJECT NO. 50106442

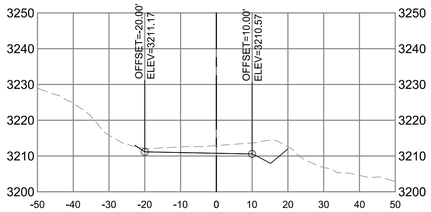
FR72-27

SHEET NO.

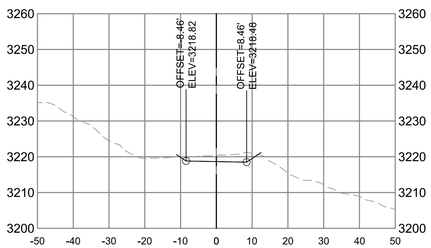
FR72 LONG RUN RD #81, STATION 295+00.0



FR72 LONG RUN RD #82, STATION 296+00.0



FR72 LONG RUN RD #83, STATION 297+00.0



LONG RUN RD INSTALLATION PLAN EARTHWORK CALCULATIONS

	CUT (CY)	FILL (CY)	NET (CY)	
LONG RUN RD STA 35+00-39+00	632	47	585	(CUT)
LONG RUN RD STA 51+00-56+00	3971	807	3164	(CUT)
LONG RUN RD STA 91+50-95+00	283	122	161	(CUT)
LONG RUN RD STA 99+00-103+50	580	794	214	(FILL)
LONG RUN RD STA 112+00-116+00	223	518	295	(FILL)
LONG RUN RD STA 134+00-138+00	938	229	709	(CUT)
LONG RUN RD STA 143+00-147+00	308	206	102	(CUT)
LONG RUN RD STA 155+50-159+50	1004	784	220	(CUT)
LONG RUN RD STA 163+00-167+00	278	201	77	(CUT)
LONG RUN RD STA 173+00-184+00	2440	380	2060	(CUT)
LONG RUN RD STA 211+00-214+00	24	549	525	(FILL)
LONG RUN RD STA 219+00-225+00	990	201	789	(CUT)
LONG RUN RD STA 264+00-280+00	3363	415	2948	(CUT)
INSTALLATION TOTALS	6935	2723	4212	(CUT)

NOTES

1. SEE PLAN & PROFILE SHEETS, FR72-01 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 CE49.

Dewberry

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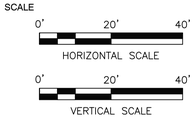
SCALE



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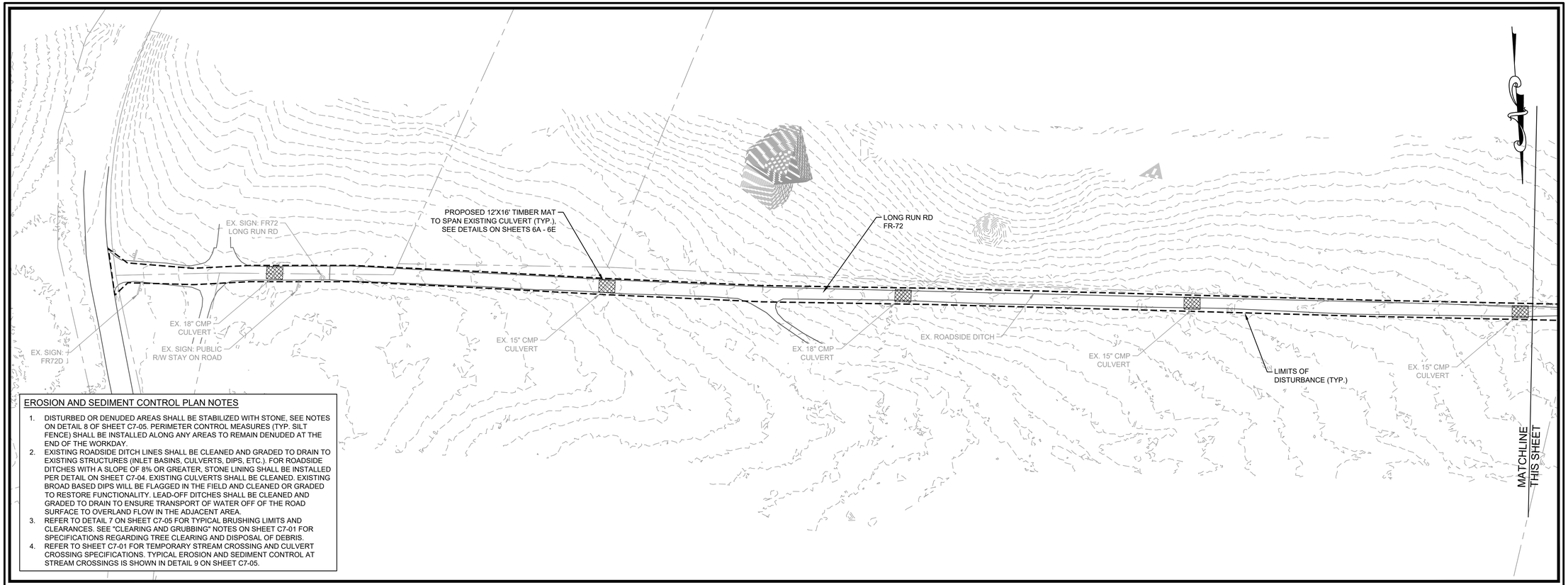
TITLE

FR-72
LONG RUN RD
CROSS SECTIONS

PROJECT NO. 50106442

FR72-28

SHEET NO.



EROSION AND SEDIMENT CONTROL PLAN NOTES

1. DISTURBED OR DENUDED AREAS SHALL BE STABILIZED WITH STONE, SEE NOTES ON DETAIL 8 OF SHEET C7-05. PERIMETER CONTROL MEASURES (TYP. SILT FENCE) SHALL BE INSTALLED ALONG ANY AREAS TO REMAIN DENUDED AT THE END OF THE WORKDAY.
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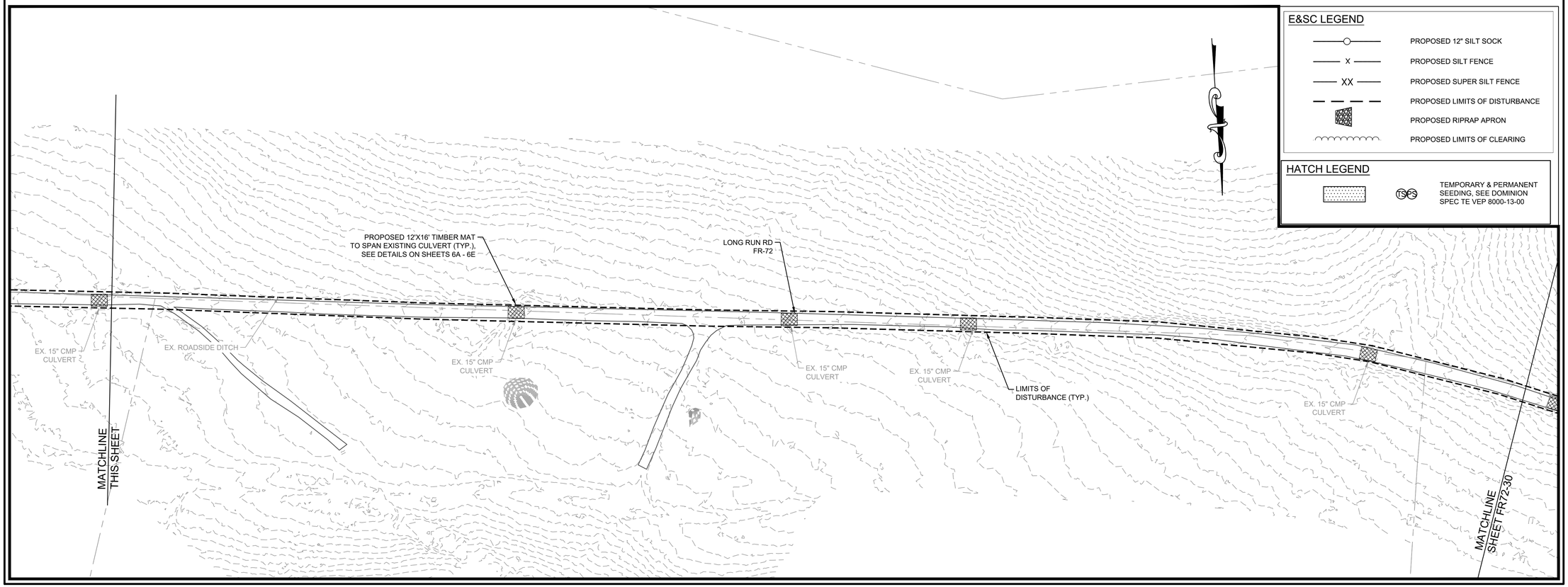

E&SC LEGEND

- 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

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
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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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

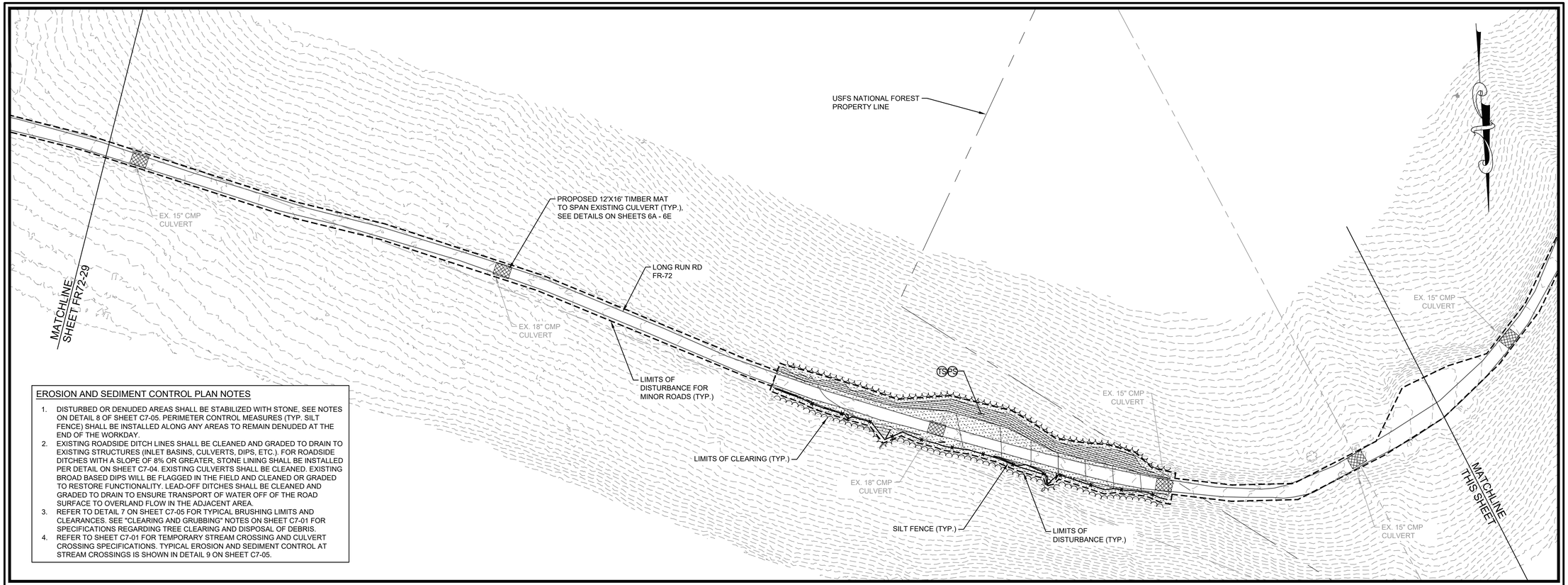
TITLE

FR-72 LONG RUN RD E&SC PLAN

PROJECT NO. 50106442

FR72-29

SHEET NO.



EROSION AND SEDIMENT CONTROL PLAN NOTES

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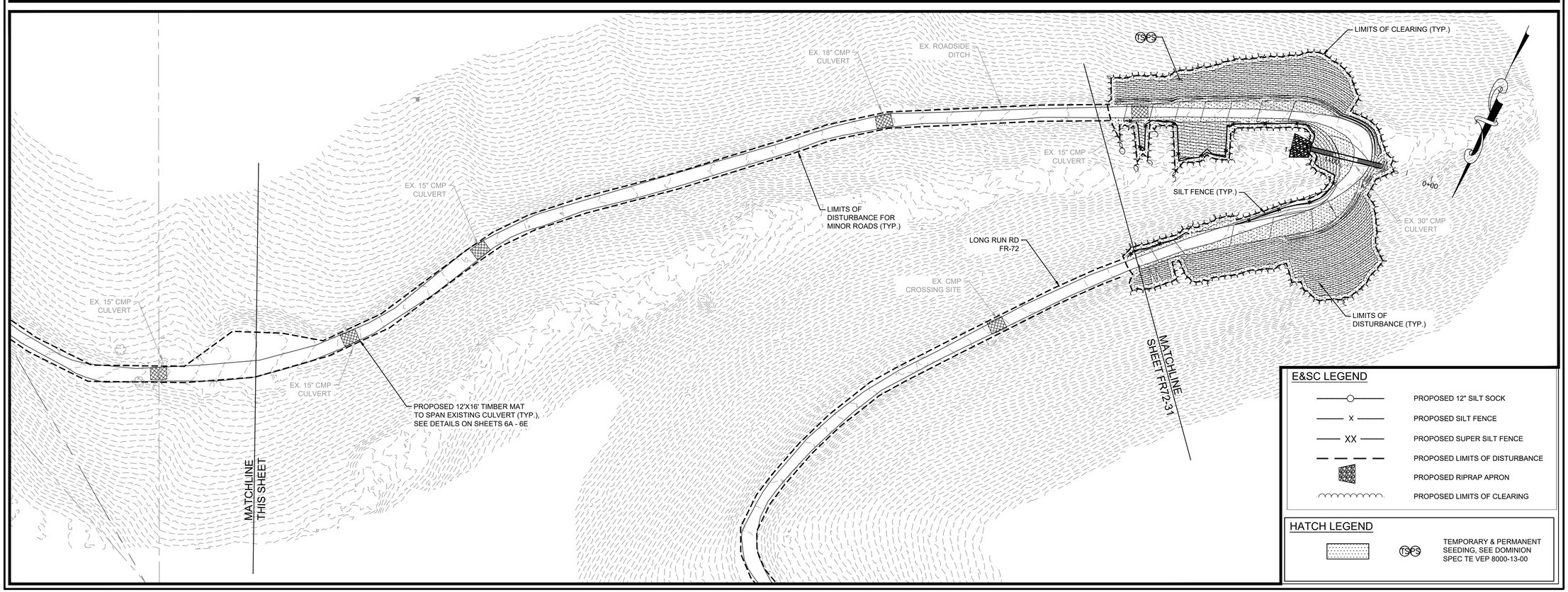

E&SC LEGEND

—○—	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

▒ TSCS	TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

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SCALE
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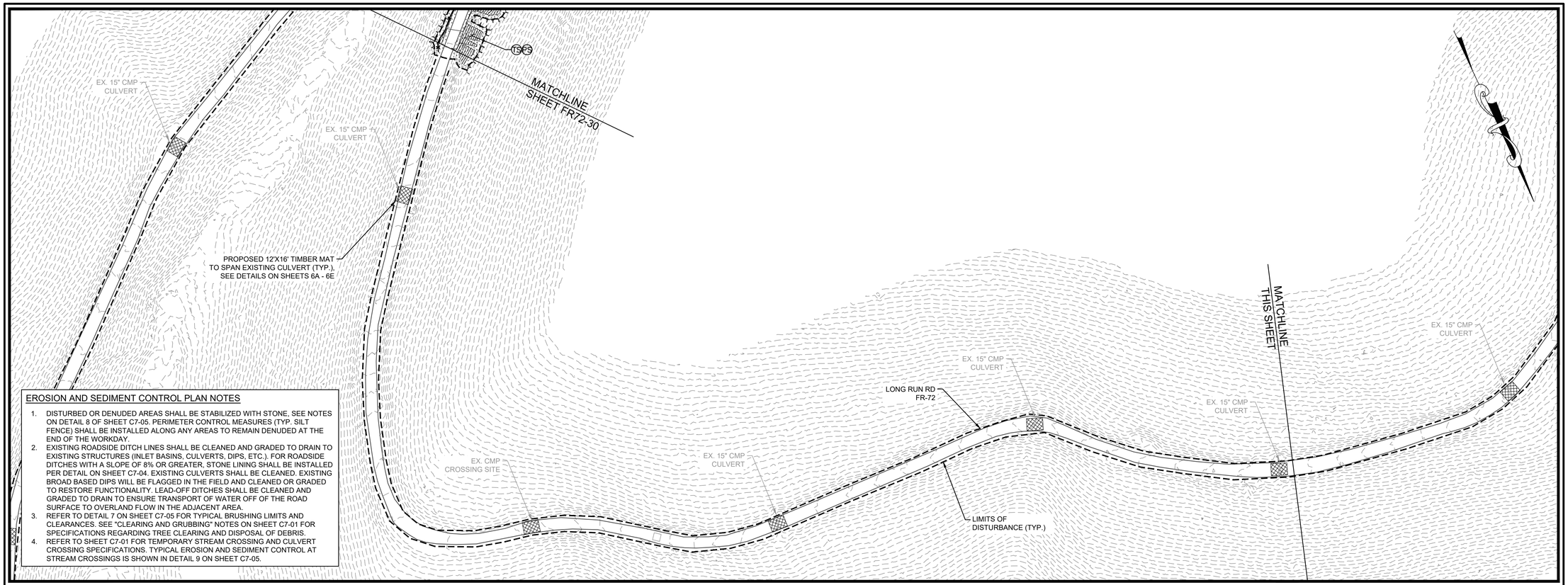
TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-30

SHEET NO.



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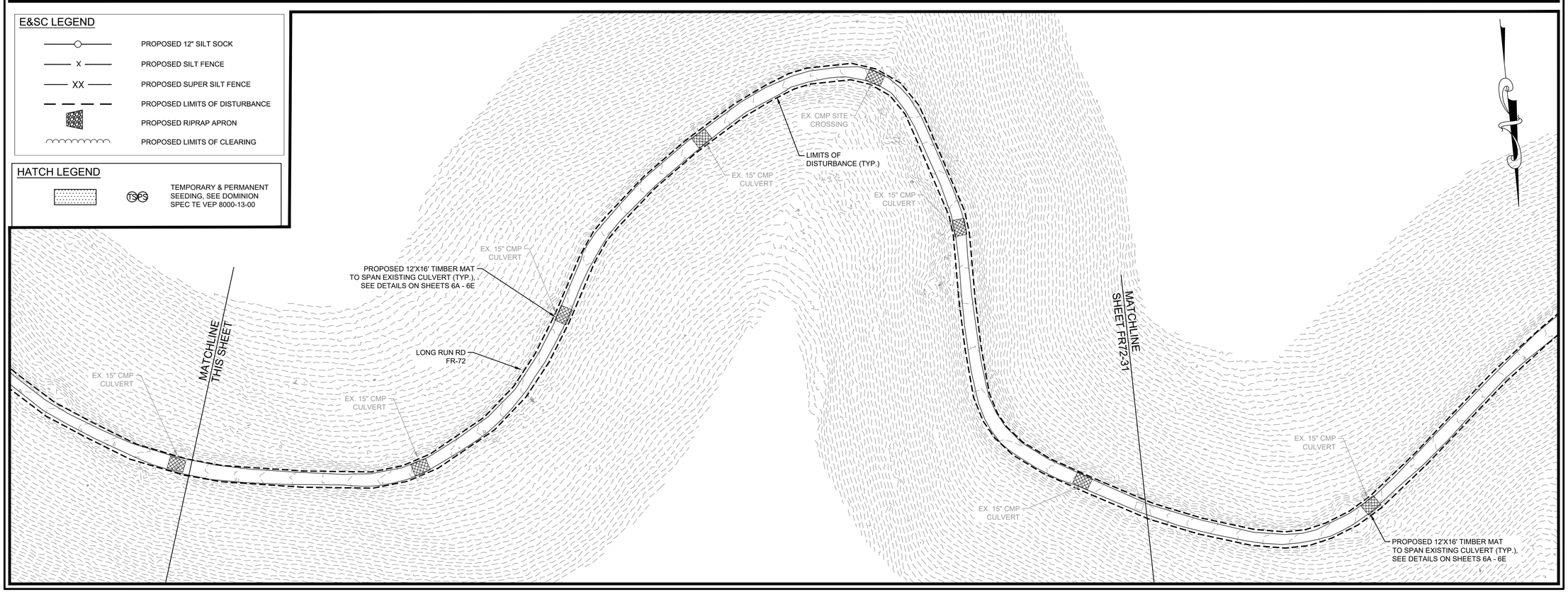
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

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



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SCALE
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CHECKED BY	KAP
DATE	07/29/2021

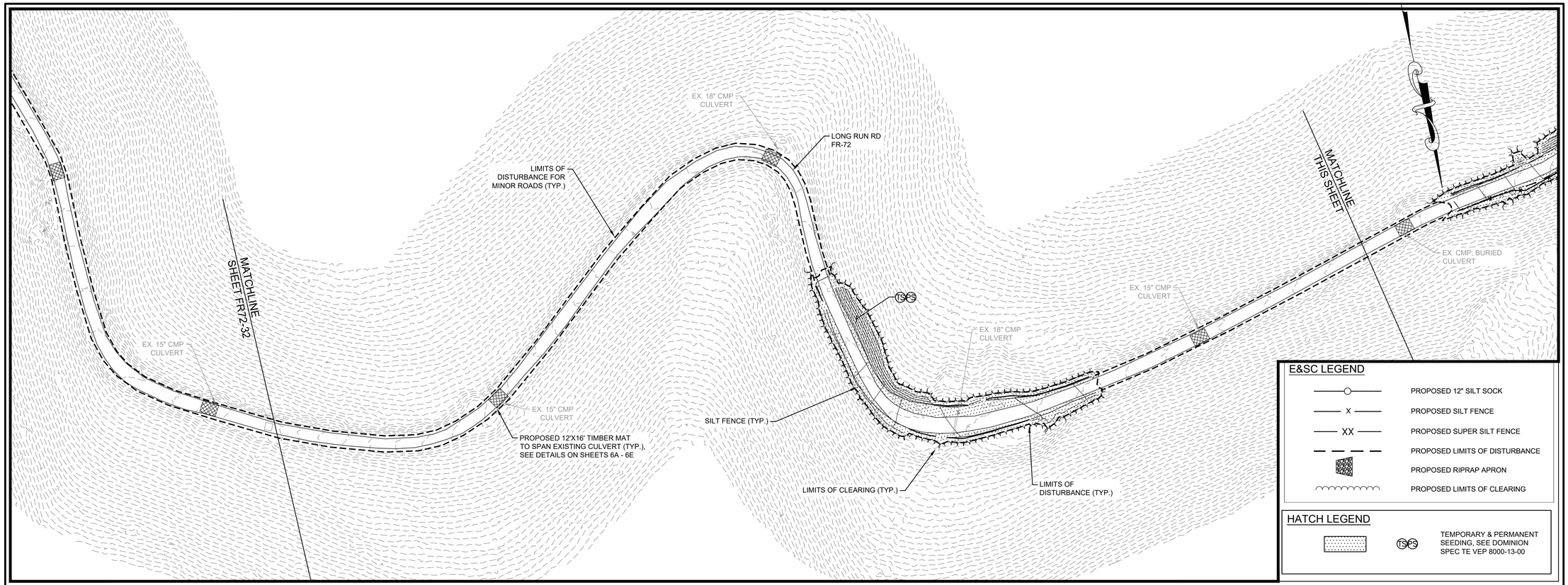
TITLE

FR-72 LONG RUN RD E&SC PLAN

PROJECT NO. 50106442

FR72-31

SHEET NO.



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

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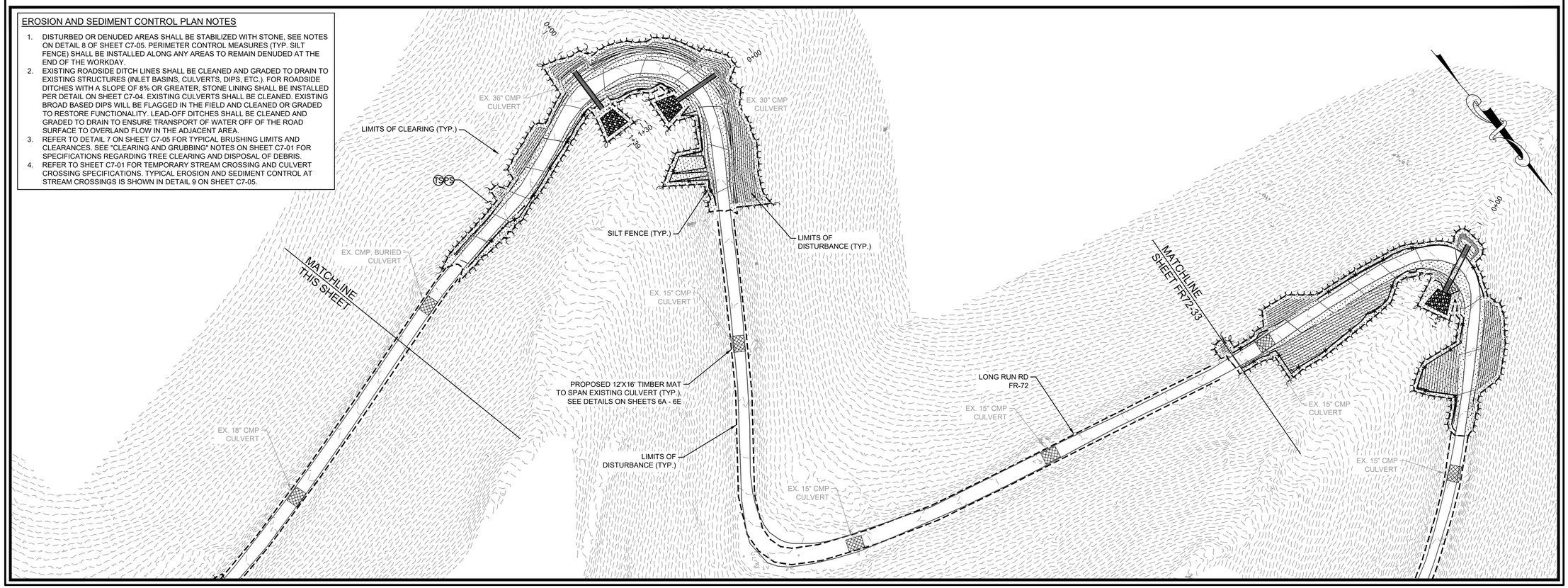

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

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SCALE
0' 100' 200'
HORIZONTAL SCALE

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CHECKED BY KAP
DATE 07/29/2021

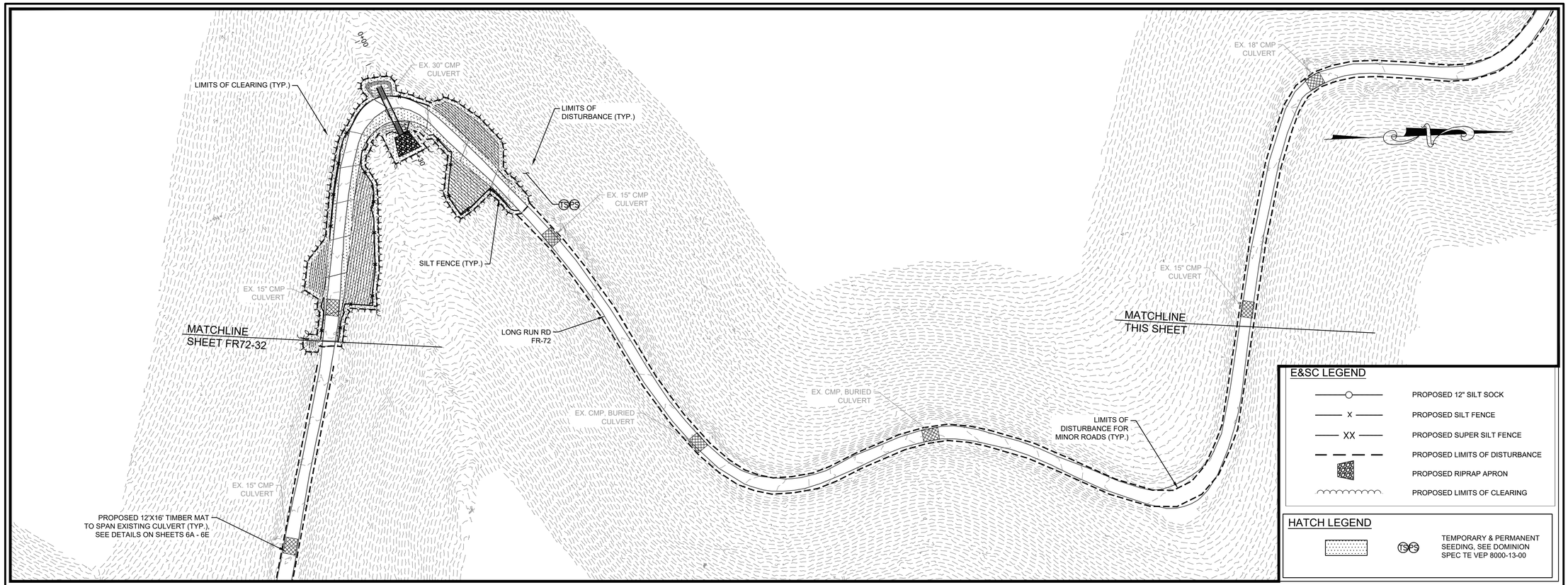
TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-32

SHEET NO.



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

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

EROSION AND SEDIMENT CONTROL PLAN NOTES

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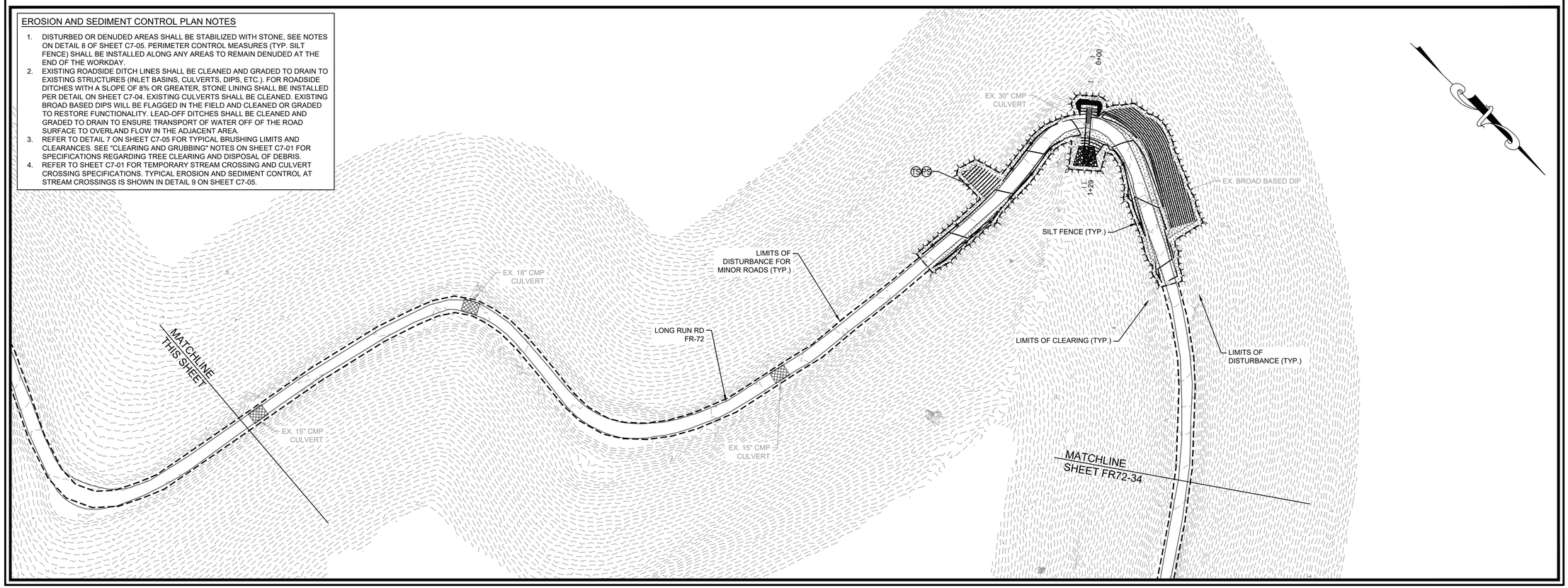

Dewberry

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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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-33

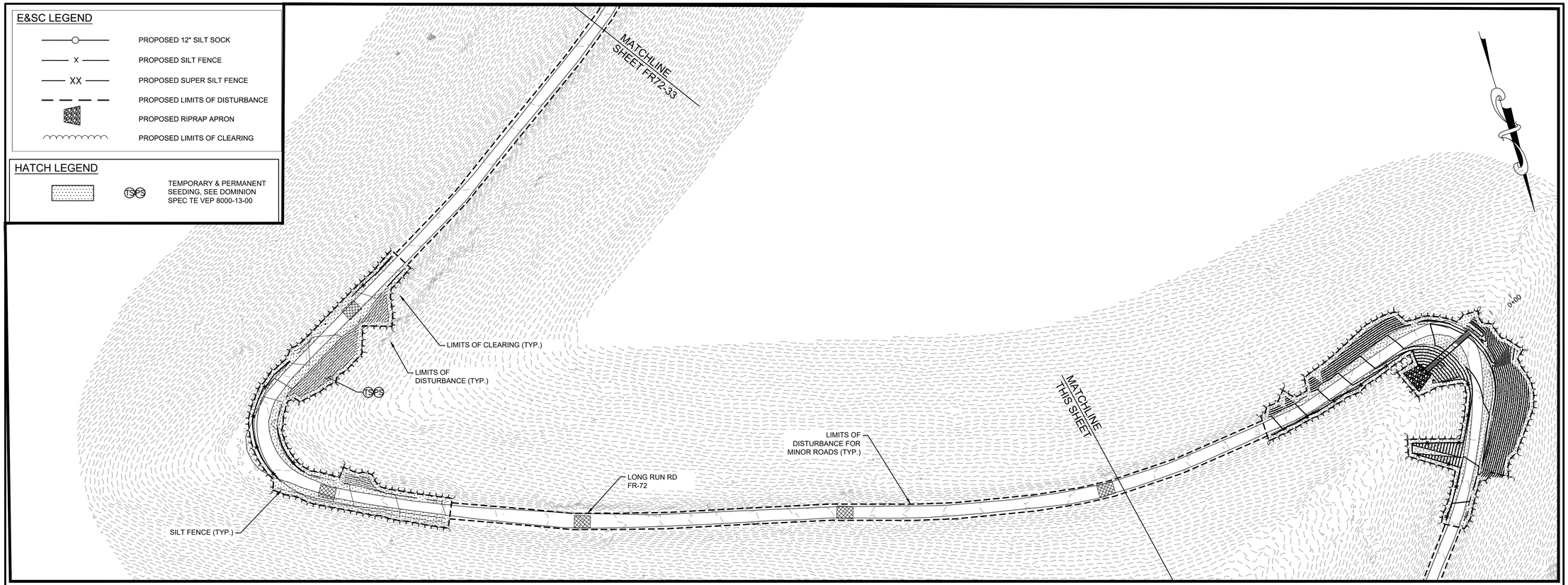
SHEET NO.

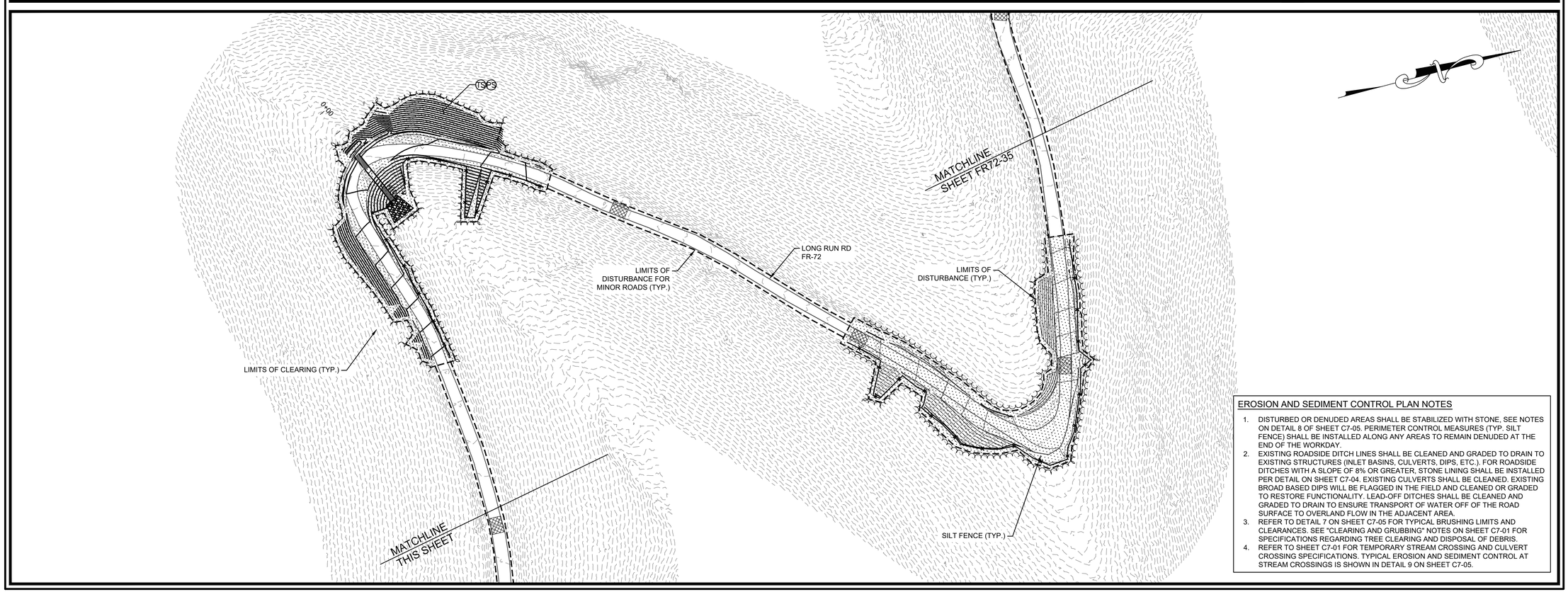
E&SC LEGEND

- 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





EROSION AND SEDIMENT CONTROL PLAN NOTES

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
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SEAL

PRELIMINARY
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SCALE
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HORIZONTAL SCALE

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REVISIONS

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CHECKED BY KAP
DATE 07/29/2021

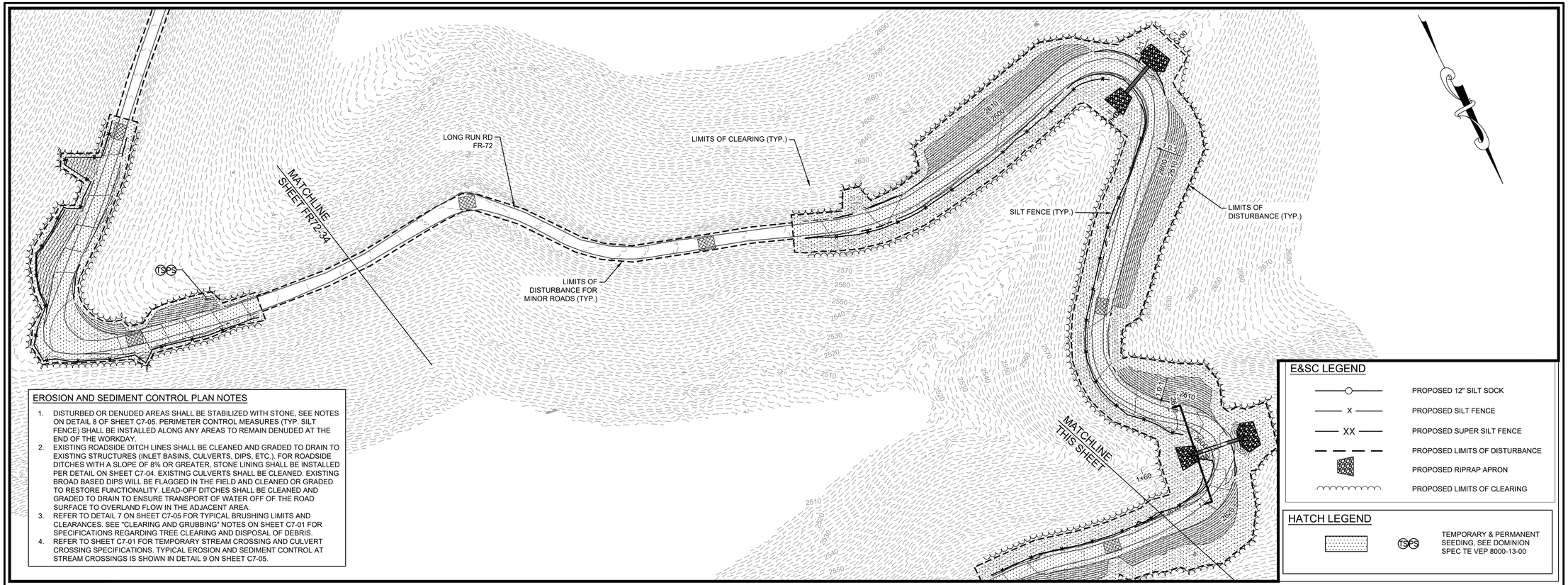
TITLE

FR-72 LONG RUN RD E&SC PLAN

PROJECT NO. 50106442

FR72-34

SHEET NO.



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E&SC LEGEND

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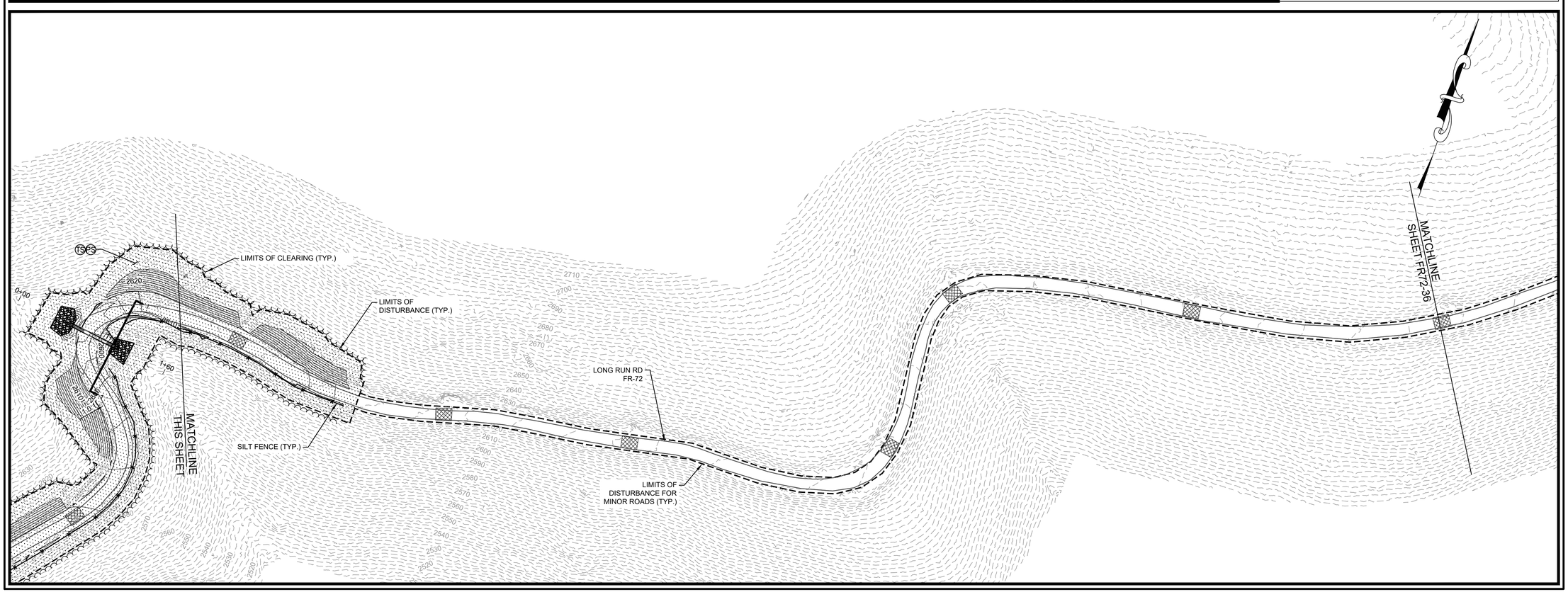
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

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



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HORIZONTAL SCALE

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REVISIONS

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DATE	07/29/2021

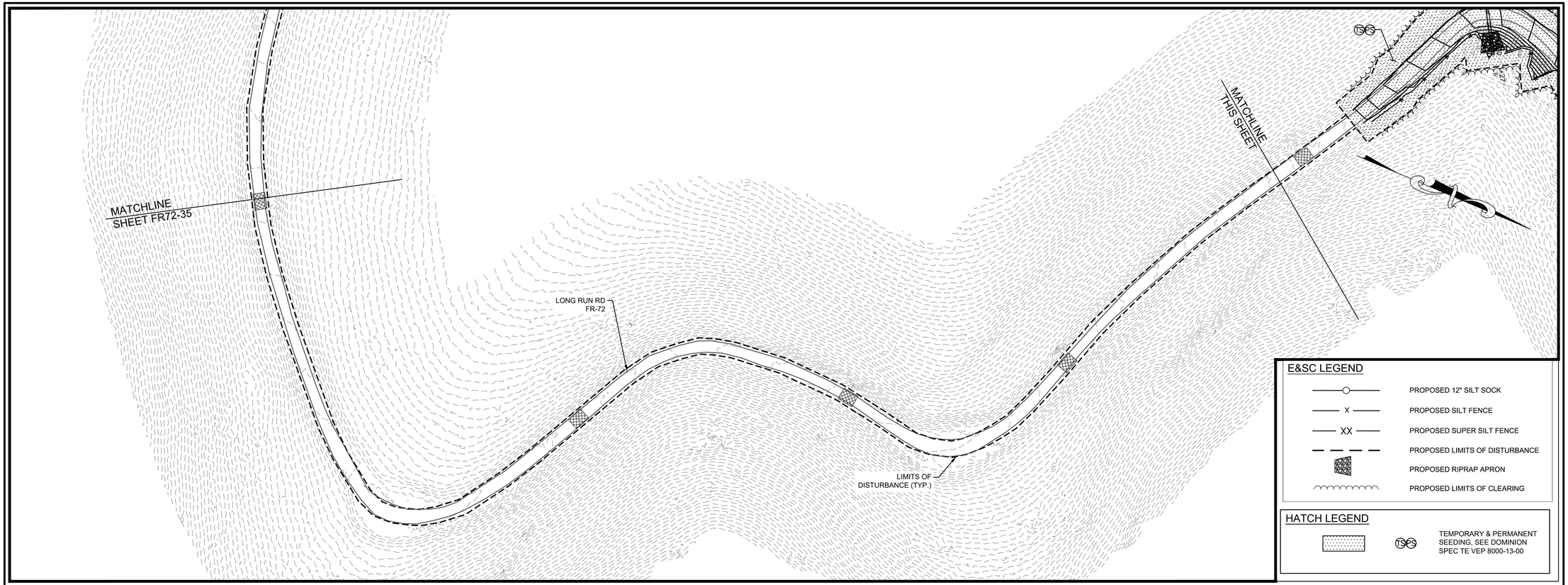
TITLE

FR-72 LONG RUN RD E&SC PLAN

PROJECT NO. 50106442

FR72-35

SHEET NO.



E&SC LEGEND

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HATCH LEGEND

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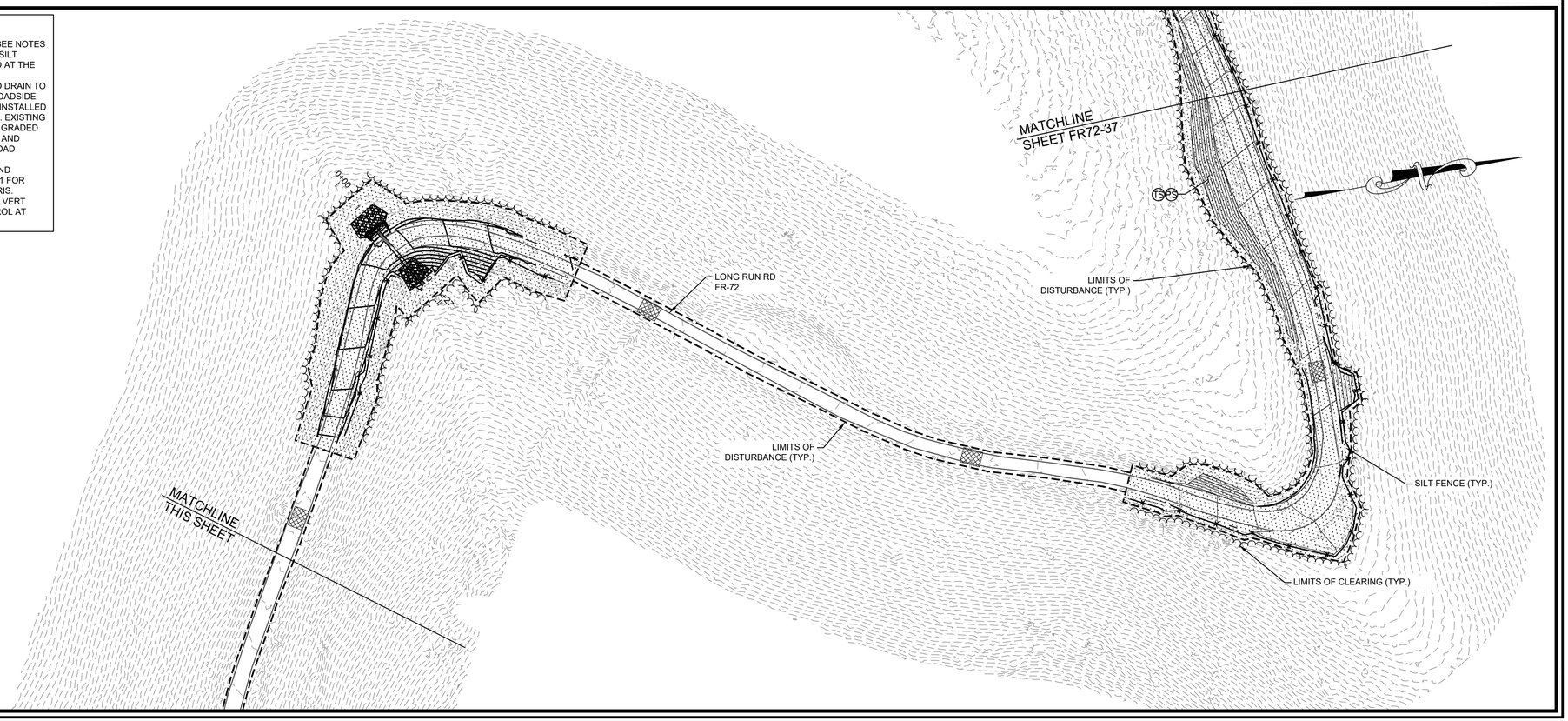


Dewberry

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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	07/29/2021

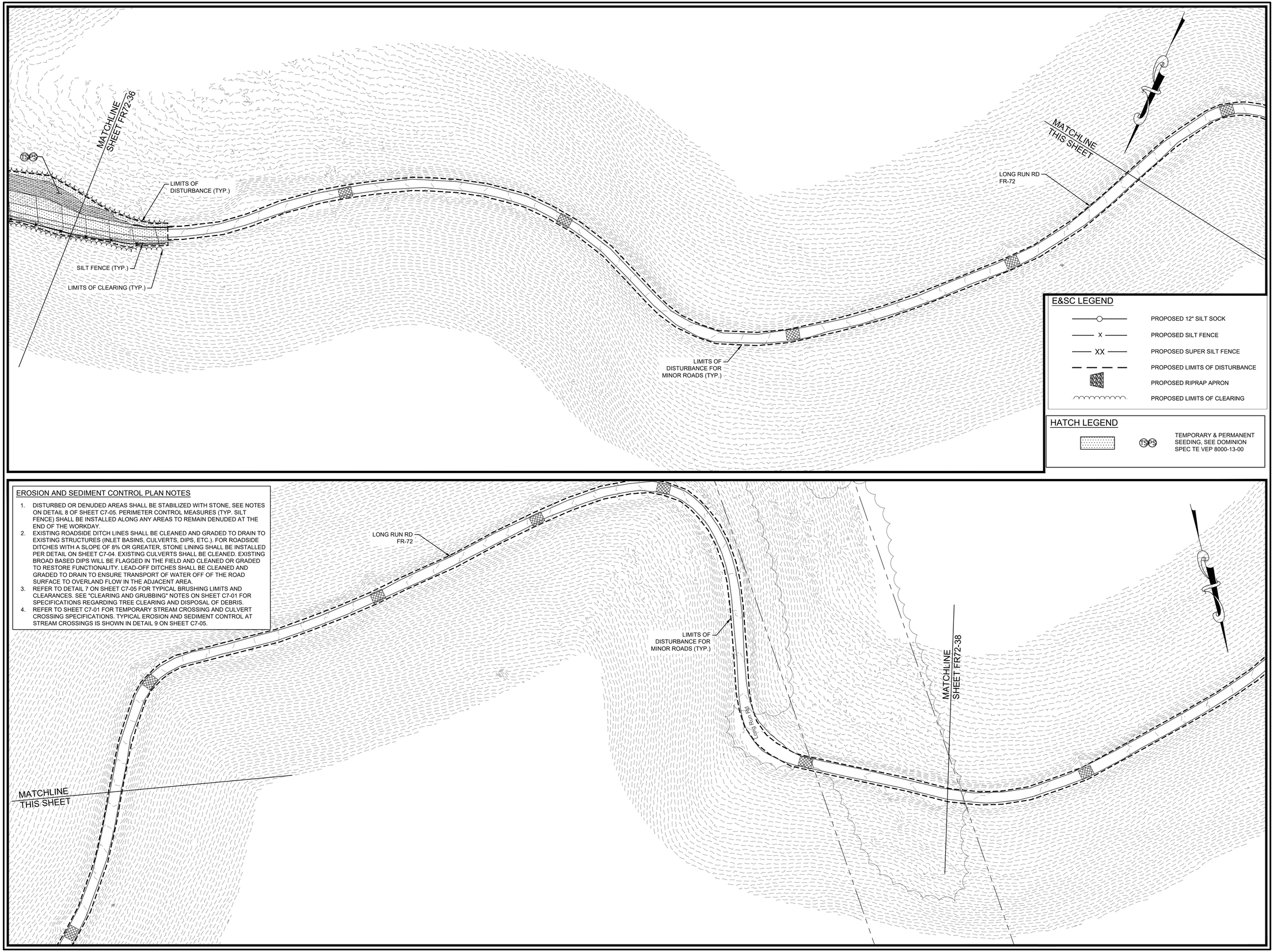
TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-36

SHEET NO.



EROSION AND SEDIMENT CONTROL PLAN NOTES

1. DISTURBED OR DENUDED AREAS SHALL BE STABILIZED WITH STONE, SEE NOTES ON DETAIL 8 OF SHEET C7-05. PERIMETER CONTROL MEASURES (TYP. SILT FENCE) SHALL BE INSTALLED ALONG ANY AREAS TO REMAIN DENUDED AT THE END OF THE WORKDAY.
2. EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (INLET BASINS, CULVERTS, DIPS, ETC.). FOR ROADSIDE DITCHES WITH A SLOPE OF 8% OR GREATER, STONE LINING SHALL BE INSTALLED PER DETAIL ON SHEET C7-04. EXISTING CULVERTS SHALL BE CLEANED. EXISTING BROAD BASED DIPS WILL BE FLAGGED IN THE FIELD AND CLEANED OR GRADED TO RESTORE FUNCTIONALITY. 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.
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SEAL

PRELIMINARY
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SCALE
0' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

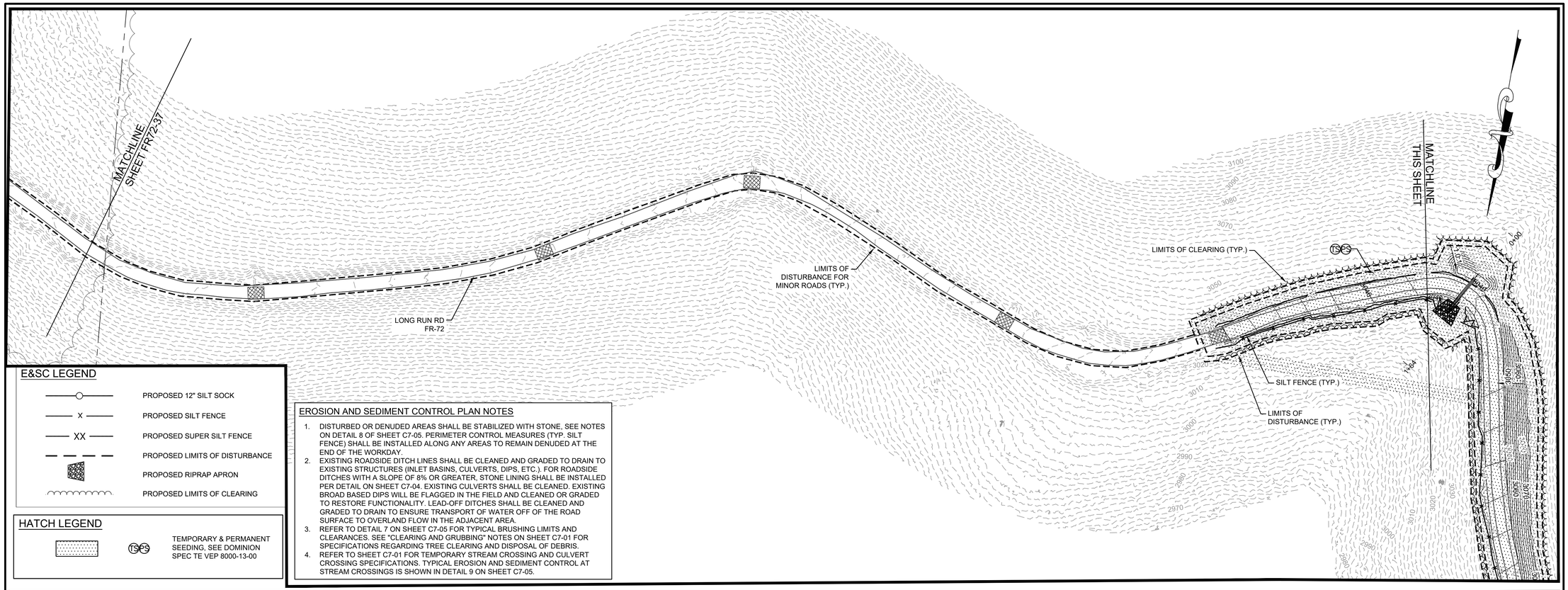
TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-37

SHEET NO.



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

EROSION AND SEDIMENT CONTROL PLAN NOTES

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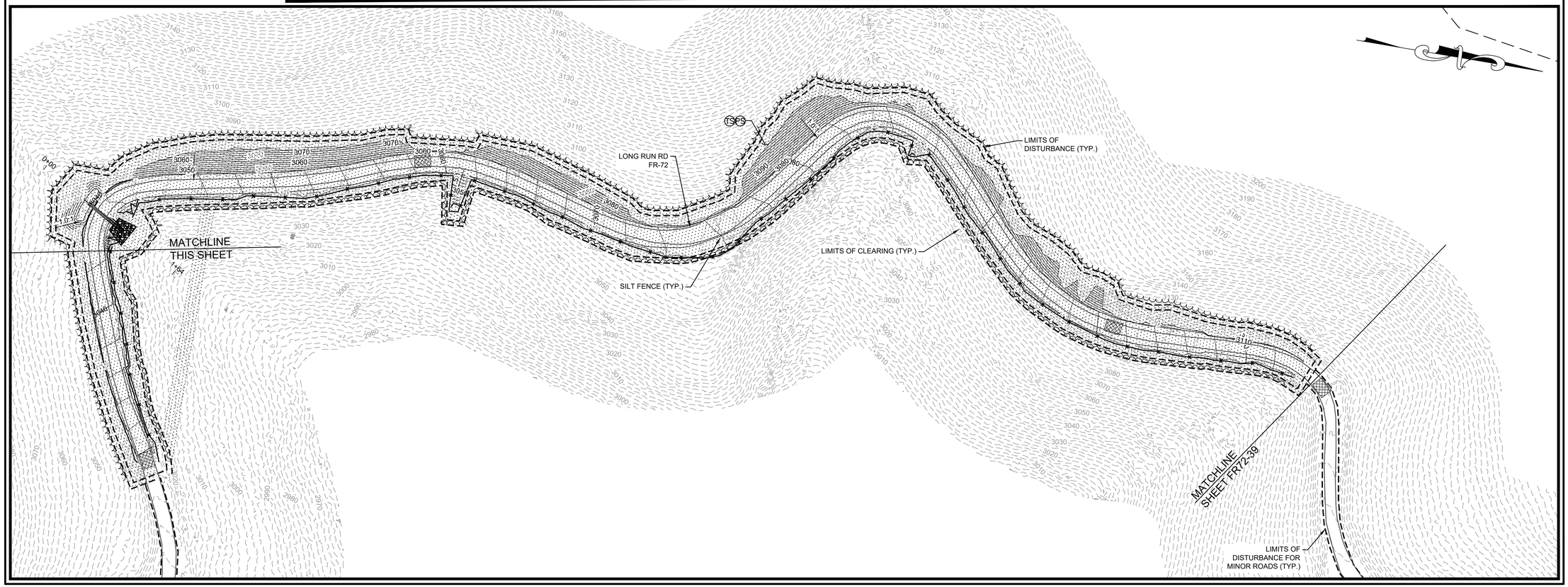

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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS

GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

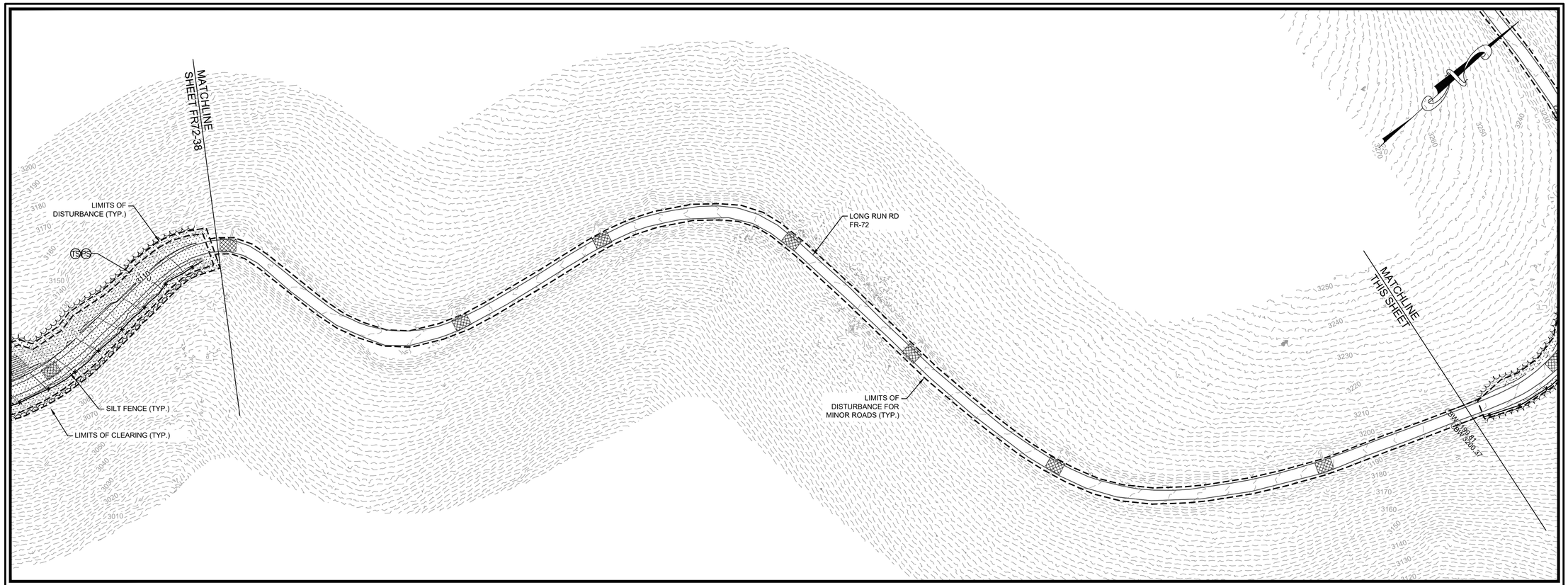
TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-38

SHEET NO.



EROSION AND SEDIMENT CONTROL PLAN NOTES

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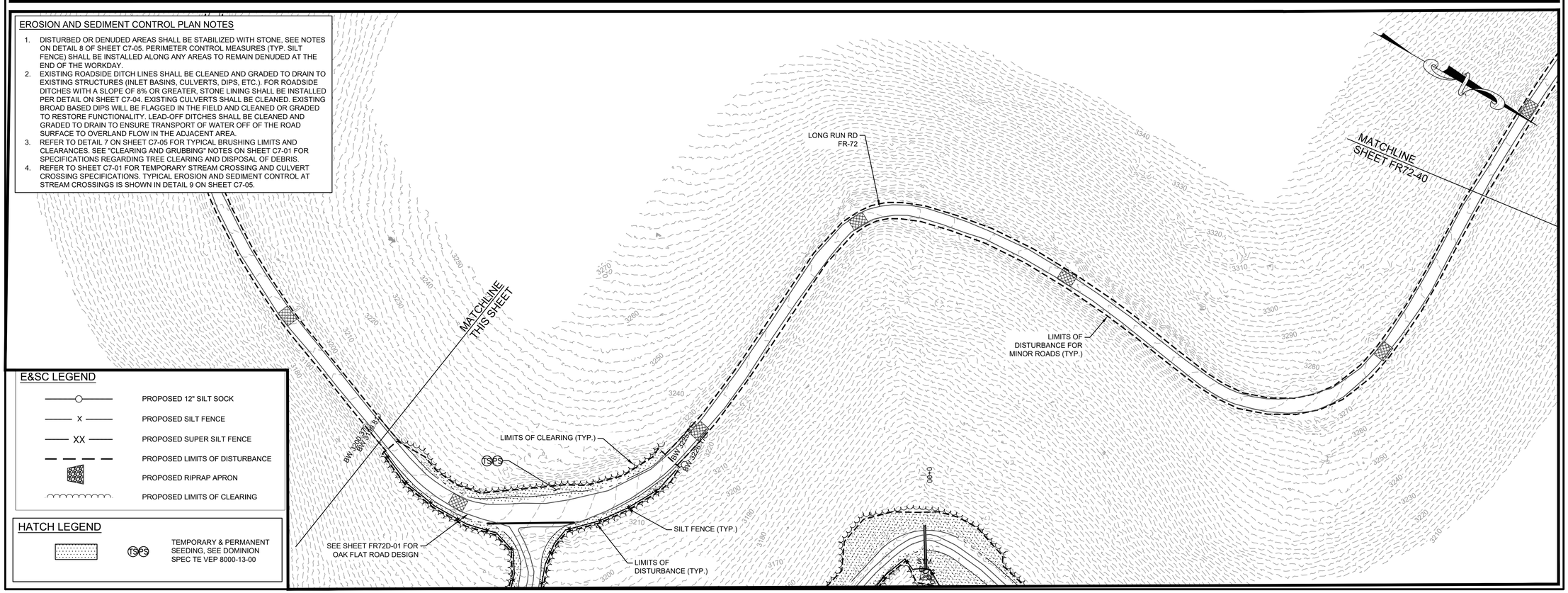

E&SC LEGEND

—○—	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

▒	TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00
TS&SS	

Dewberry

Dewberry Engineers Inc.
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SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
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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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	07/29/2021

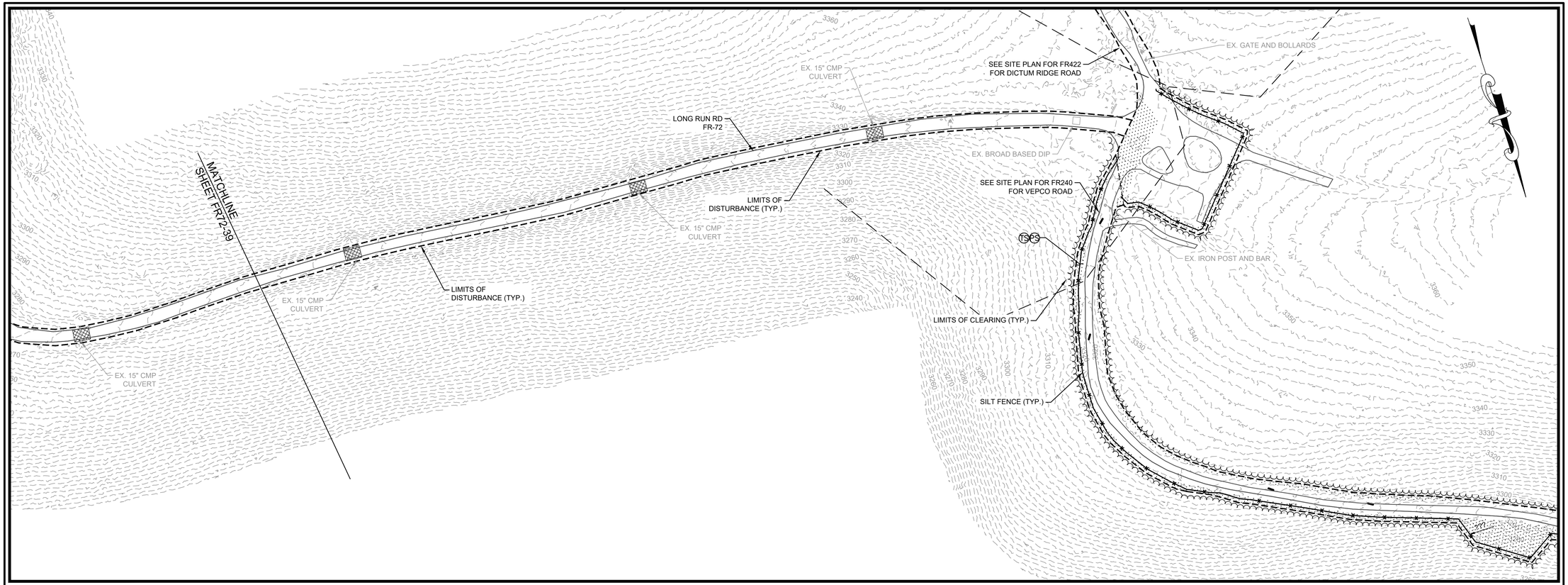
TITLE

FR-72
LONG RUN RD
E&SC PLAN

PROJECT NO. 50106442

FR72-39

SHEET NO.



EROSION AND SEDIMENT CONTROL PLAN NOTES

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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

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

Dewberry

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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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/29/21	ARB	FOR REVIEW
0	07/22/20	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/29/2021

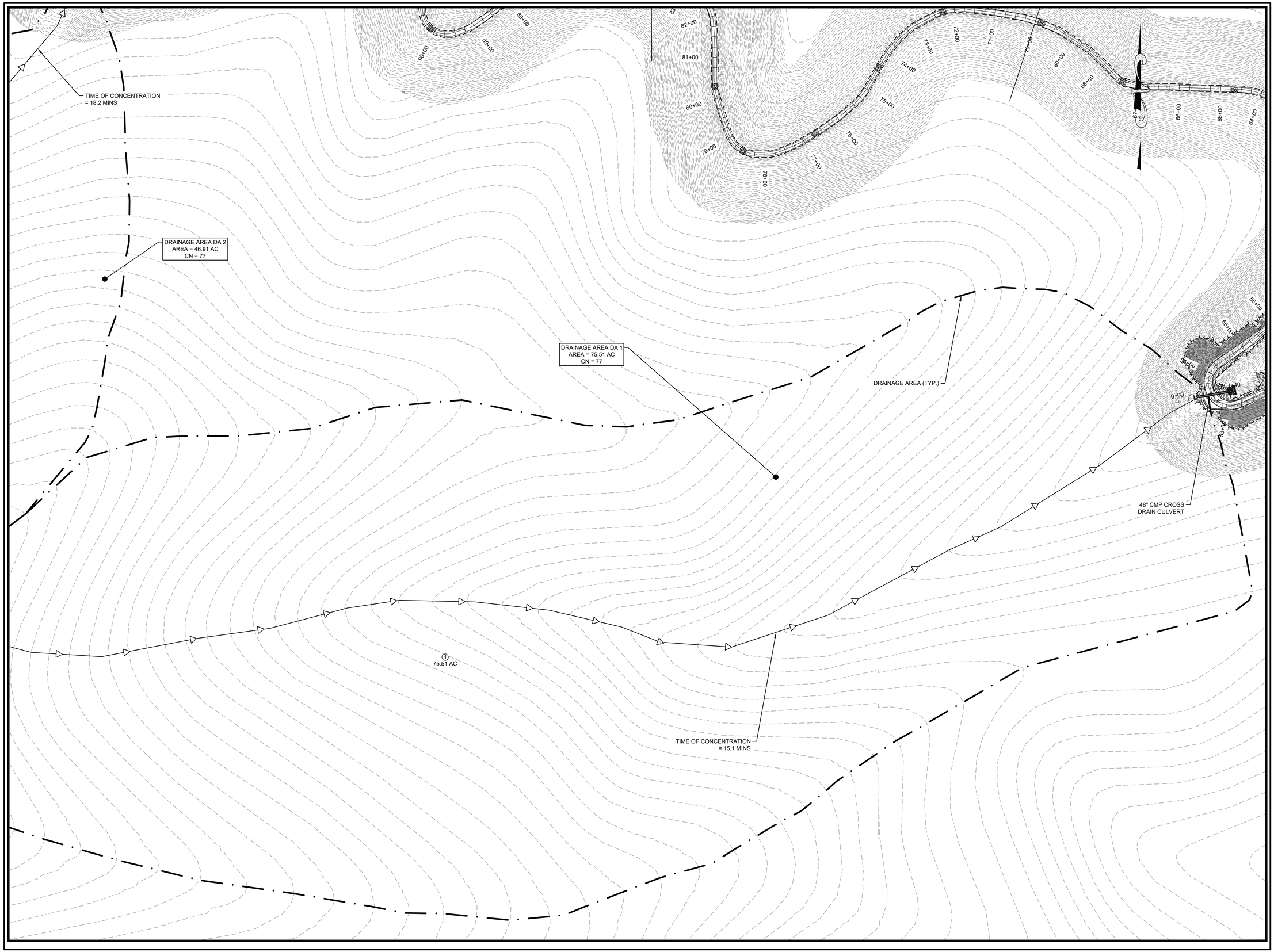
TITLE

FR-72 LONG RUN RD E&SC PLAN

PROJECT NO. 50106442

FR72-40

SHEET NO.



Dewberry

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SUITE 200
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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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/16/2021

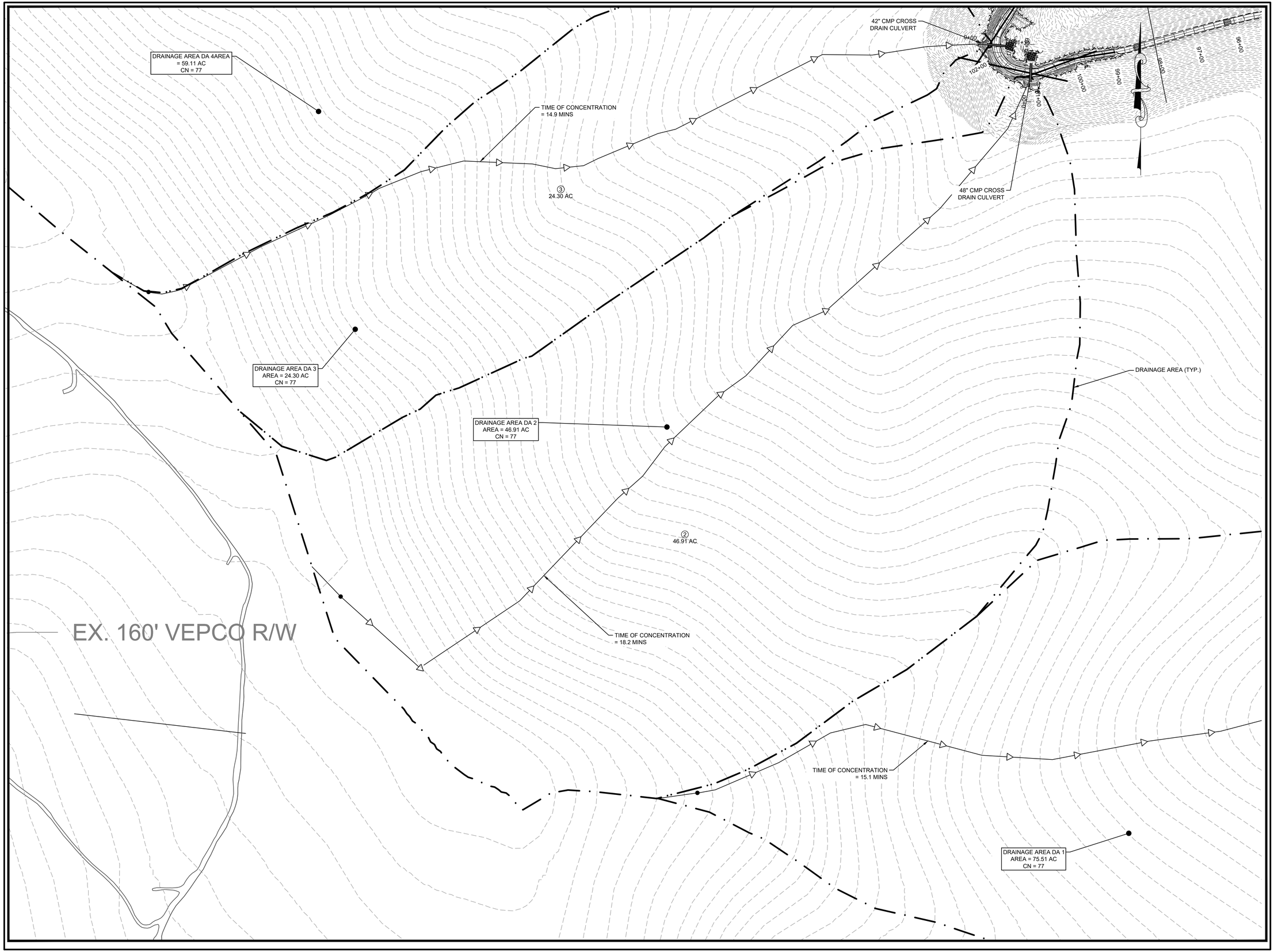
TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-41

SHEET NO.



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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/16/2021

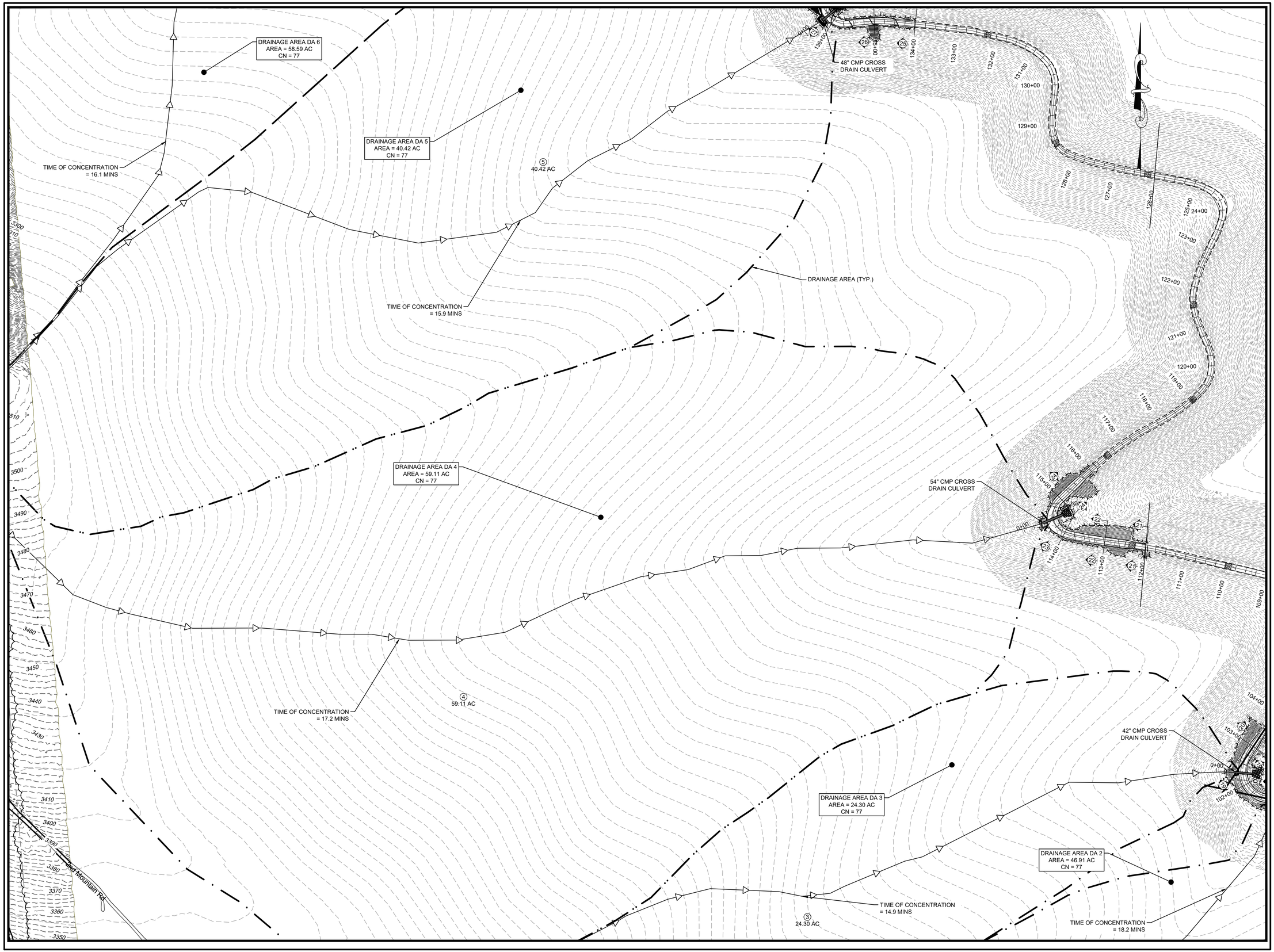
TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-42

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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
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DATE 03/16/2021

TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-43

SHEET NO.

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' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
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TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-44

SHEET NO.

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
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804.290.7957 (PHONE)
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TRANSMISSION LINE REBUILD
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GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

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SCALE
0' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

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APPROVED BY	
CHECKED BY	KAP
DATE	03/16/2021

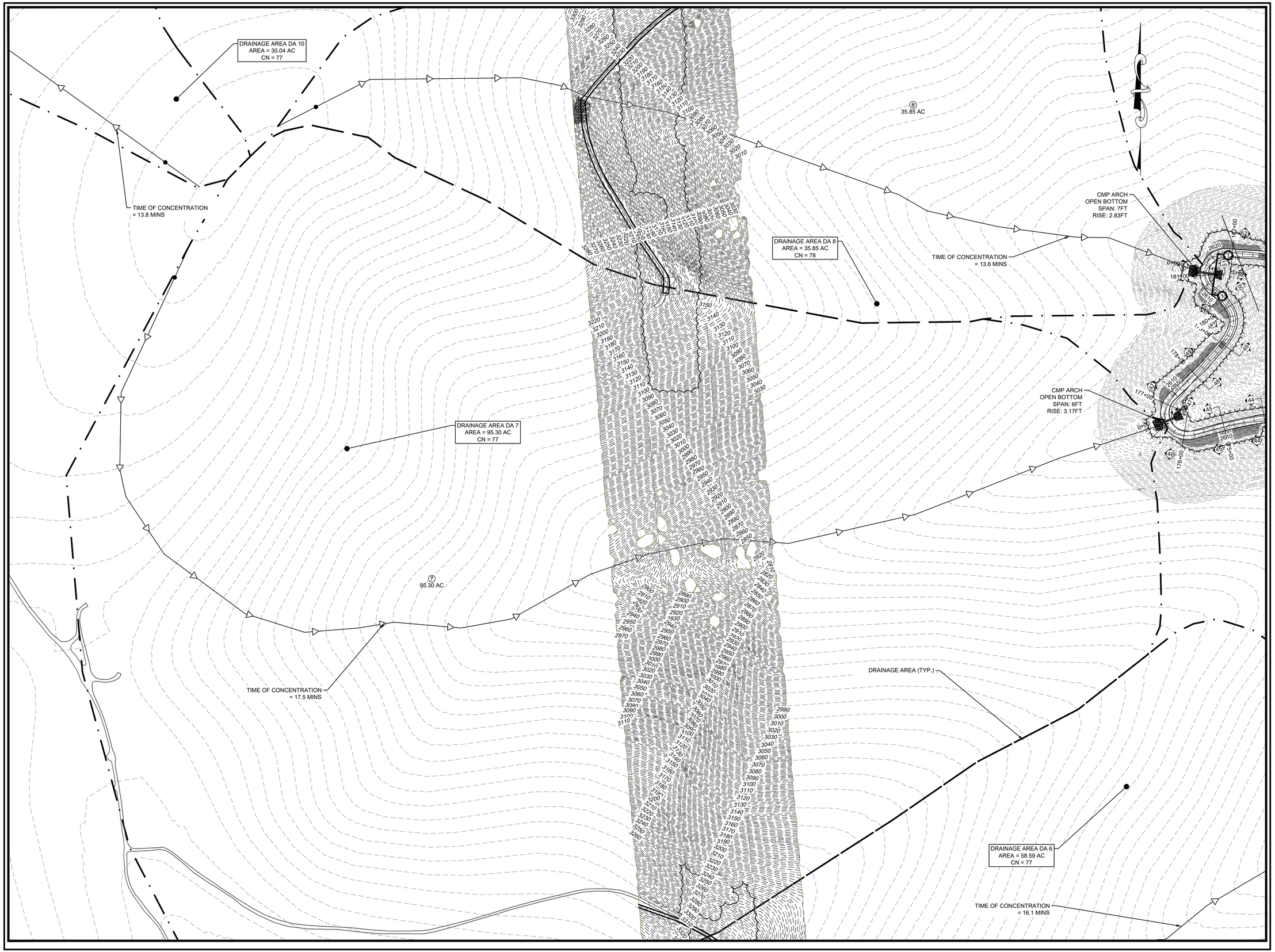
TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-45

SHEET NO.



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

SEAL

PRELIMINARY
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SCALE
0' 100' 200'
HORIZONTAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 03/16/2021

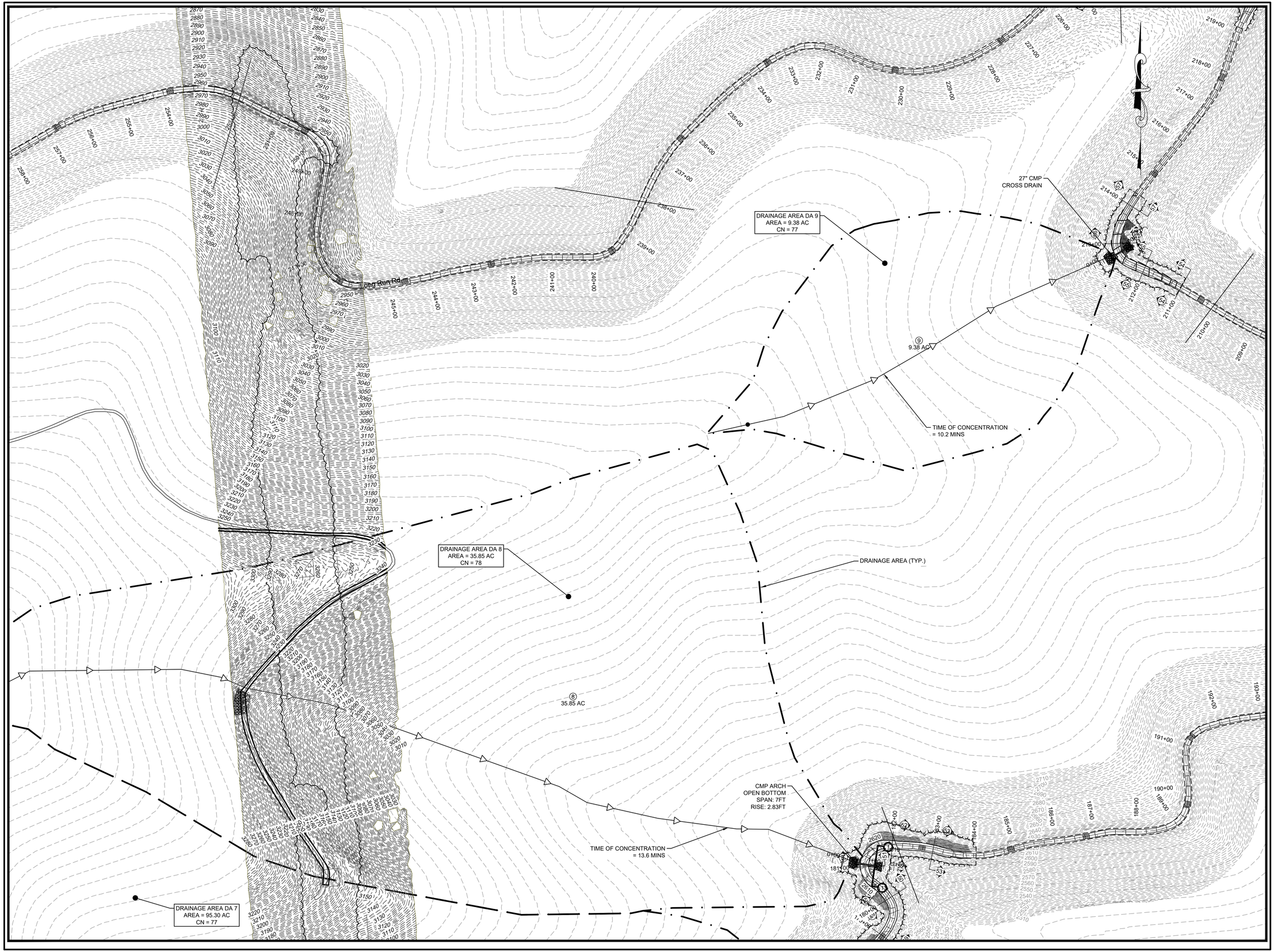
TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-46

SHEET NO.



Dewberry

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WEST VIRGINIA & VIRGINIA

SEAL

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SCALE
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HORIZONTAL SCALE

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CHECKED BY	KAP
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TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

PROJECT NO. 50106442

FR72-47

SHEET NO.

Dewberry

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SCALE
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TITLE

FR-72
LONG RUN RD
DRAINAGE AREA

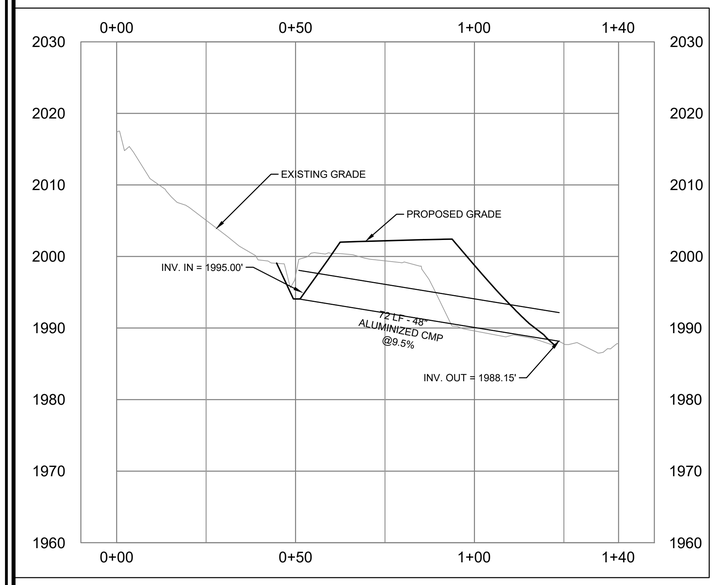
PROJECT NO. 50106442

FR72-48

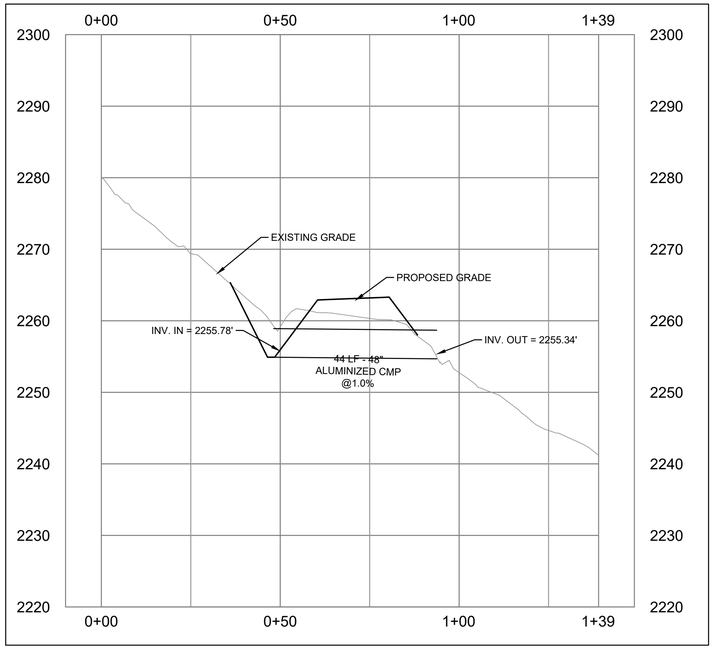
SHEET NO.

STORM PROFILES

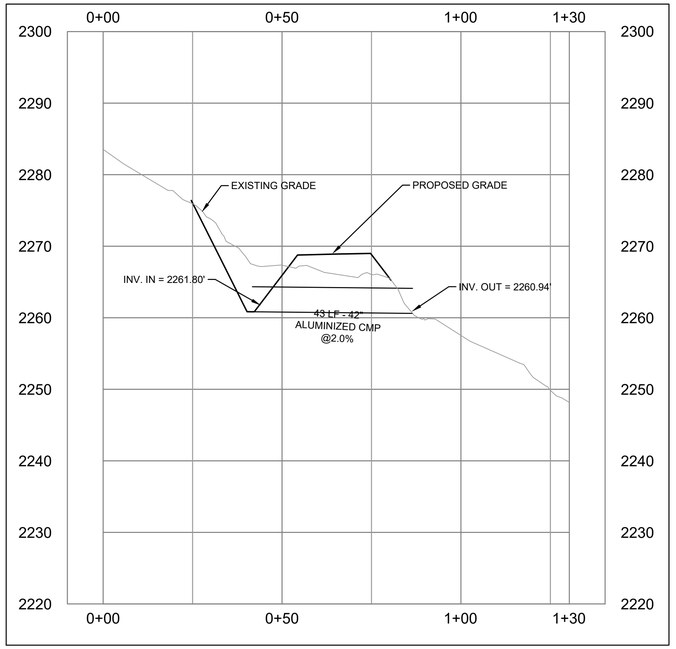
DA 1 CULVERT PROFILE



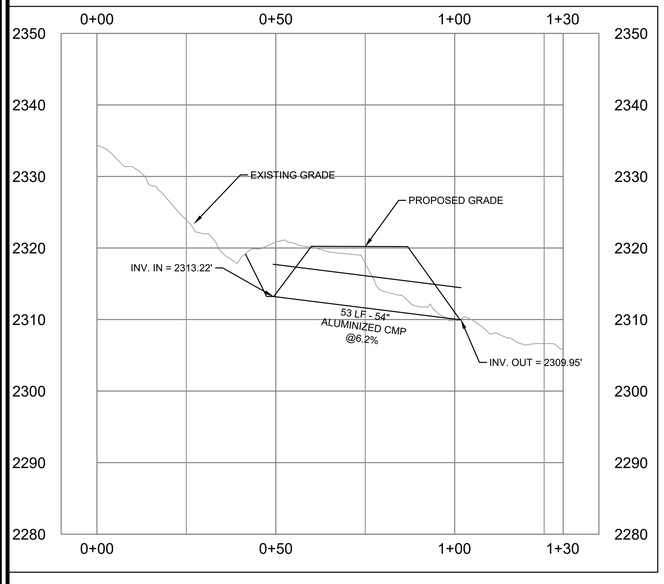
DA 2 CULVERT PROFILE



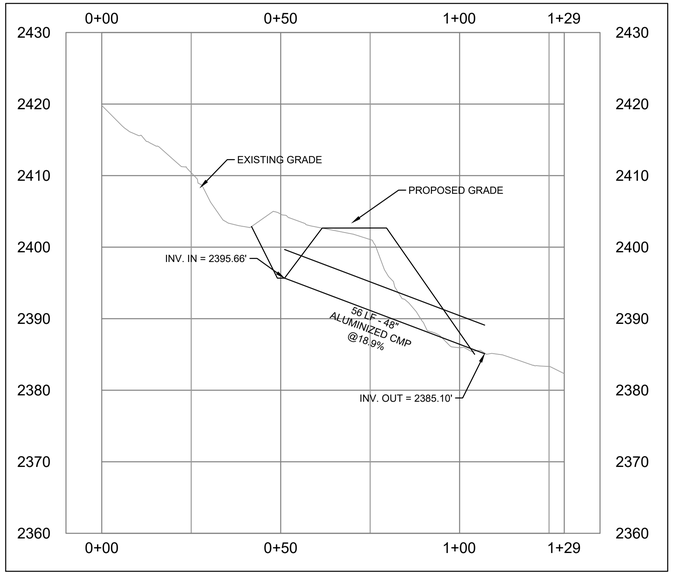
DA 3 CULVERT PROFILE



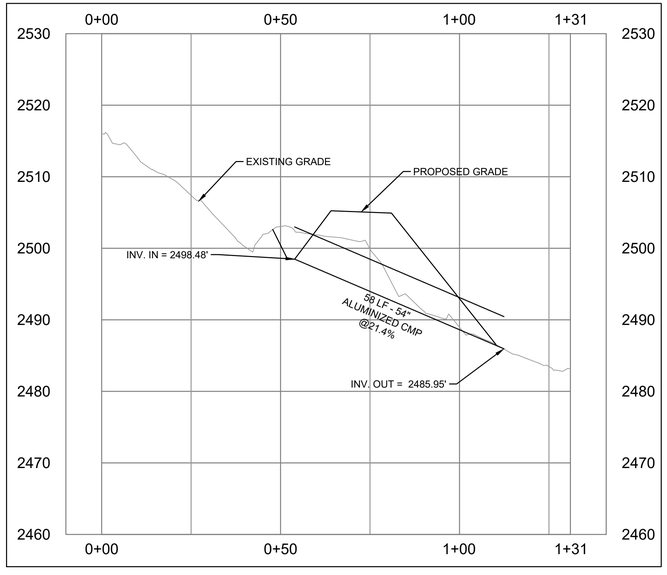
DA 4 CULVERT PROFILE



DA 5 CULVERT PROFILE



DA 6 CULVERT PROFILE



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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' 10' 20'
VERTICAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/16/2021

TITLE

FR-72
LONG RUN RD
DRAINAGE COMPS

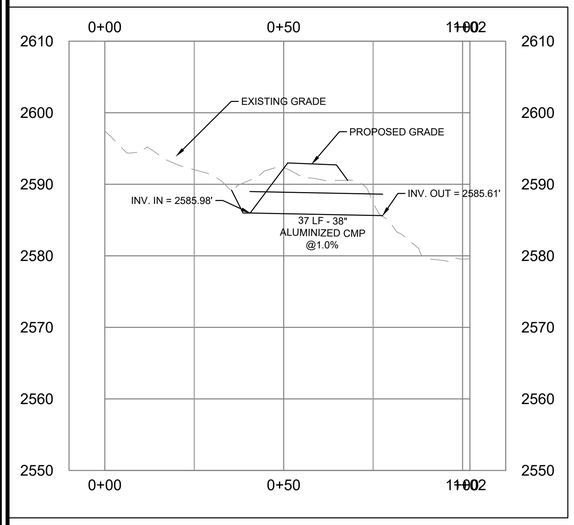
PROJECT NO. 50106442

FR72-49

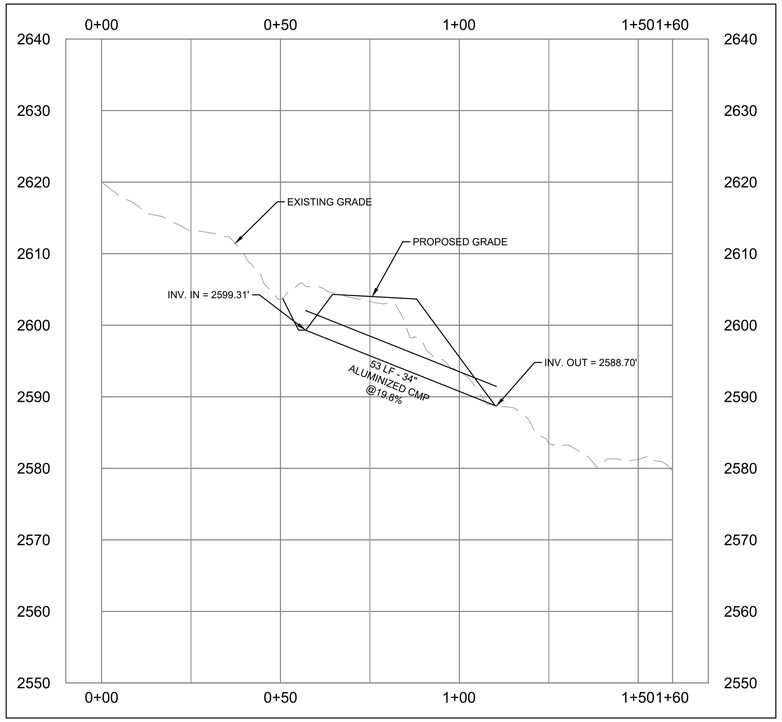
SHEET NO.

STORM PROFILES

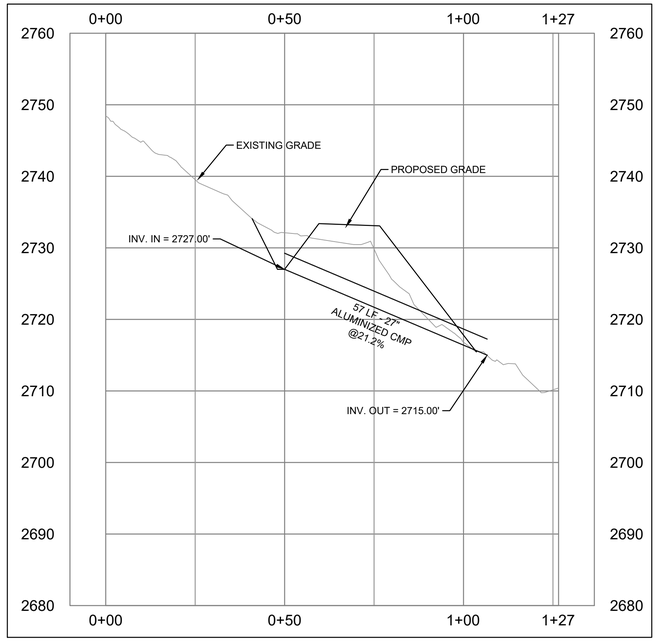
DA 7 CULVERT PROFILE



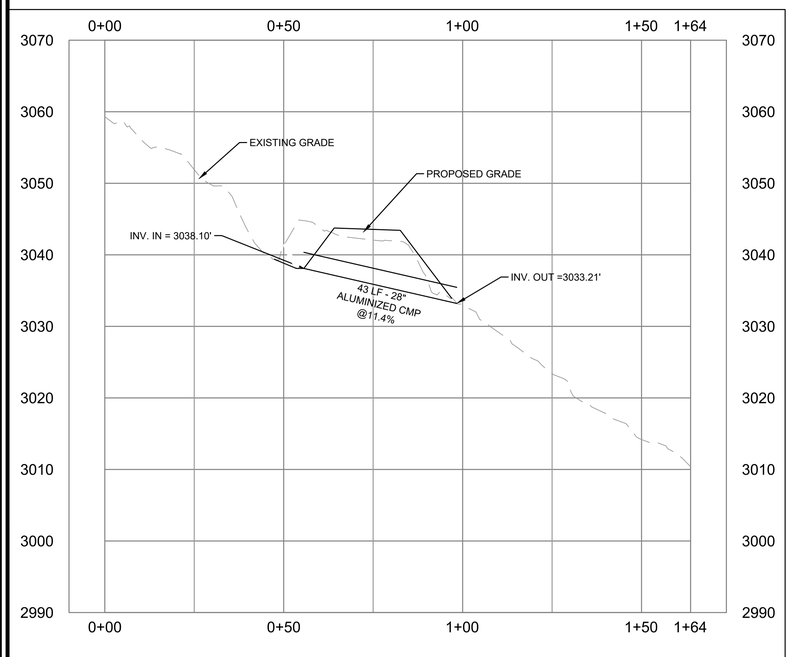
DA 8 CULVERT PROFILE



DA 9 CULVERT PROFILE



DA 10 CULVERT PROFILE



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' 20' 40'
HORIZONTAL SCALE
0' 10' 20'
VERTICAL SCALE

No.	DATE	BY	Description
0	03/16/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/16/2021

TITLE

FR-72
LONG RUN RD
DRAINAGE COMPS

PROJECT NO. 50106442

FR72-50

SHEET NO.