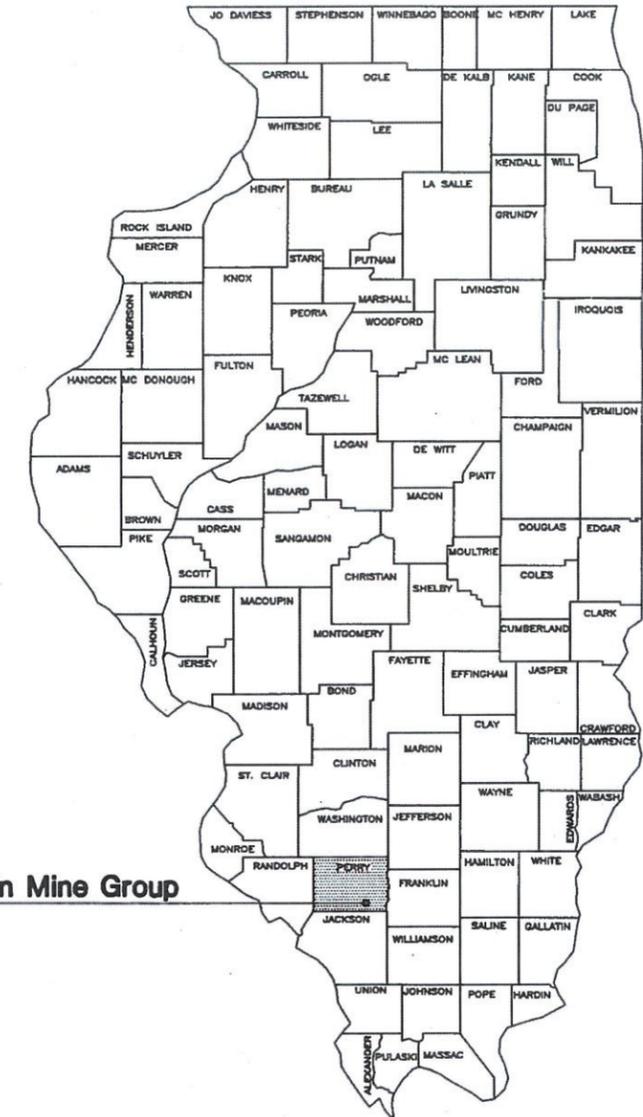


**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Abandoned Mined Lands Reclamation Division**

Funded by the  
 United States Department of Interior  
 Federal Office of Surface Mining

**Fidelity No. 11-McElvain Mine  
 Group Reclamation Project  
 AML-GPeE-2109  
 Perry County  
 1LR**



Fidelity No. 11-McElvain Mine Group  
 Perry County

**SCHEDULE OF DRAWINGS:**

1. Cover Sheet
2. Summary of Quantities / General Notes / Location Map
3. Site Layout and Information
- 4.-8. Existing Conditions Fidelity No. 11-McElvain Mine
- 9.-13. Proposed Conditions Fidelity No. 11-McElvain Mine
- 14.-39. Cross Sections Fidelity No. 11-McElvain Mine
- 40.-41. Details
42. Sag Road Repairs New Kathleen Mine

**IDOT STANDARDS:**

701006-05	701011-04	701201-05	701301-04
701306-04	701311-03	701907-08	708001-05
BLR 17-4	BLR 22-7		

CONTRACT NO. M2109

PRE-BID MEETING

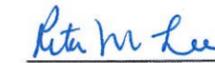
A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT ON MONDAY, JUNE 6, 2022 AT 10:00 A.M. ALONG THE SOUTHWEST PORTION OF SOURGUM ROAD (SEE SHEET 3). ALL PRIME AND SUBCONTRACTORS ARE ENCOURAGED TO ATTEND.

Prepared By IDNR Staff

Approved for Bidding:

  
 Ronnie Huff, Director  
 Office of Mines and Minerals

Approved By:

  
 Rita M. Lee, Manager  
 AMLR Division

Approved By:

  
 Janet L. Uglum, P.E.  
 IL Licensed Professional Engineer  
 No. 062-054108



Summary of Quantities

Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	Special Clearing	201	1	L SUM	
NRM20210	2	Earth Excavation	202	124,102	CU YD	
20400800	3	Furnished Excavation	IDOT 204	25,145	CU YD	COMPACTION PER SEC. 205
20700110	4	Porous Granular Embankment	IDOT 207	9.5	TON	CA-1
21400100	5	Grading and Shaping Ditches	IDOT 214	1,212	FOOT	
NRM21640	6	Shot Rock Fill	216	166,707.0	TON	
NRM25040	7	Nitrogen Fertilizer Nutrient	250	4,550	POUND	100 POUND/ACRE -- TWICE
NRM25050	8	Phosphorus Fertilizer Nutrient	250	3,435	POUND	150 POUND/ACRE
NRM25060	9	Potassium Fertilizer Nutrient	250	4,580	POUND	200 POUND/ACRE
NRM25070	10	Agricultural Ground Limestone	250	114.5	TON	5 TON/ACRE
NRM25090	11	Seeding	250	22.9	ACRE	
25000350	12	Seeding, Class 7	IDOT 250	22.6	ACRE	AS DIRECTED BY ENGINEER
25100115	13	Mulch, Method 2	IDOT 251	22.9	ACRE	PROCEDURE 1
NRM25810	14	Mowing	258	22.6	ACRE	
28000400	15	Perimeter Erosion Barrier	IDOT 280	2,040	FOOT	
28100205	16	Stone Riprap, Class A3	IDOT 281	2,112.9	TON	
X0324028	17	Grout for Use with Riprap	281	470	CU YD	
28200200	18	Filter Fabric	IDOT 282	28	SQ YD	
28400100	19	Gabions	IDOT 284	6	CU YD	
NRM28610	20	Special Excelsior Blanket	286	15,210	SQ YD	
NRM28710	21	Geosynthetic Concrete Composite Mat	287	228	SQ YD	
35101400	22	Aggregate Base Course, Type B	IDOT 351	631.3	TON	CA-1
40200800	23	Aggregate Surface Course, Type B	IDOT 402	556.9	TON	CA-6
40600370	24	Longitudinal Joint Sealant	IDOT 406	606	FOOT	
40600982	25	Hot-Mix Asphalt Surface Removal - Butt Joint	IDOT 406	880	SQ YD	
40602985	26	Hot-Mix Asphalt Binder Course, IL-9.5, N70	IDOT 406	73	TON	
40604052	27	Hot-Mix Asphalt Surface Course, IL-9.5, MIX "C", N70	IDOT 406	173	TON	
40700100	28	Bituminous Materials (Tack Coat)	IDOT 407	605	POUND	
NRM50310	29	Concrete Structures	503	28	CU YD	
50800105	30	Reinforcement Bars	IDOT 508	1,953	POUND	
542C0220	31	Pipe Culverts, Class C, Type 1 15"	IDOT 542	50	FOOT	CORRUGATED PE WITH SMOOTH INTERIOR
NRM66510	32	Barbed Wire Fence	665	2,250	FOOT	
NRM66520	33	Entrance Gates	665	1	EACH	
NRM66550	34	Wire Rope Fence	665	1,070	FOOT	
NRM67110	35	Mobilization (Max. 6% of Bid)	671	1	L SUM	
X7010216	36	Traffic Control and Protection, (Special)	701	1	L SUM	
70300100	37	Short Term Pavement Marking	IDOT 703	121	FOOT	SINGLE LINE
78001110	38	Paint Pavement Marking - Line 4"	IDOT 780	1,389	FOOT	

GENERAL NOTES

Unless otherwise noted on the plans, all disturbed areas within the construction limits will be amended with agricultural ground limestone, fertilizer nutrients, seeded and mulched at the required rates specified in the plans.

The contractor is responsible for visiting the site and familiarizing himself with the existing conditions and the proposed reclamation work prior to submitting a bid.

The contractor shall provide and pay for all field engineering services to execute the project as specified in the Field Engineering section of the Special Provisions.

The contractor is responsible for locating and protecting all existing utility lines pertaining to the work.

Unless noted on the plans, all onsite access roads may be used for construction and must be maintained during construction. Access roads to the site as designated on the plans are to be maintained to the satisfaction of the engineer.

The construction limits will be staked by the contractor prior to construction. The contractor is responsible for the repair and or restitution at his own expense for all damages done to any area outside the construction limits.

Application rates specified in the plans are shown in the Summary of Quantities-Rates/Remarks column.

CONSTRUCTION NOTES

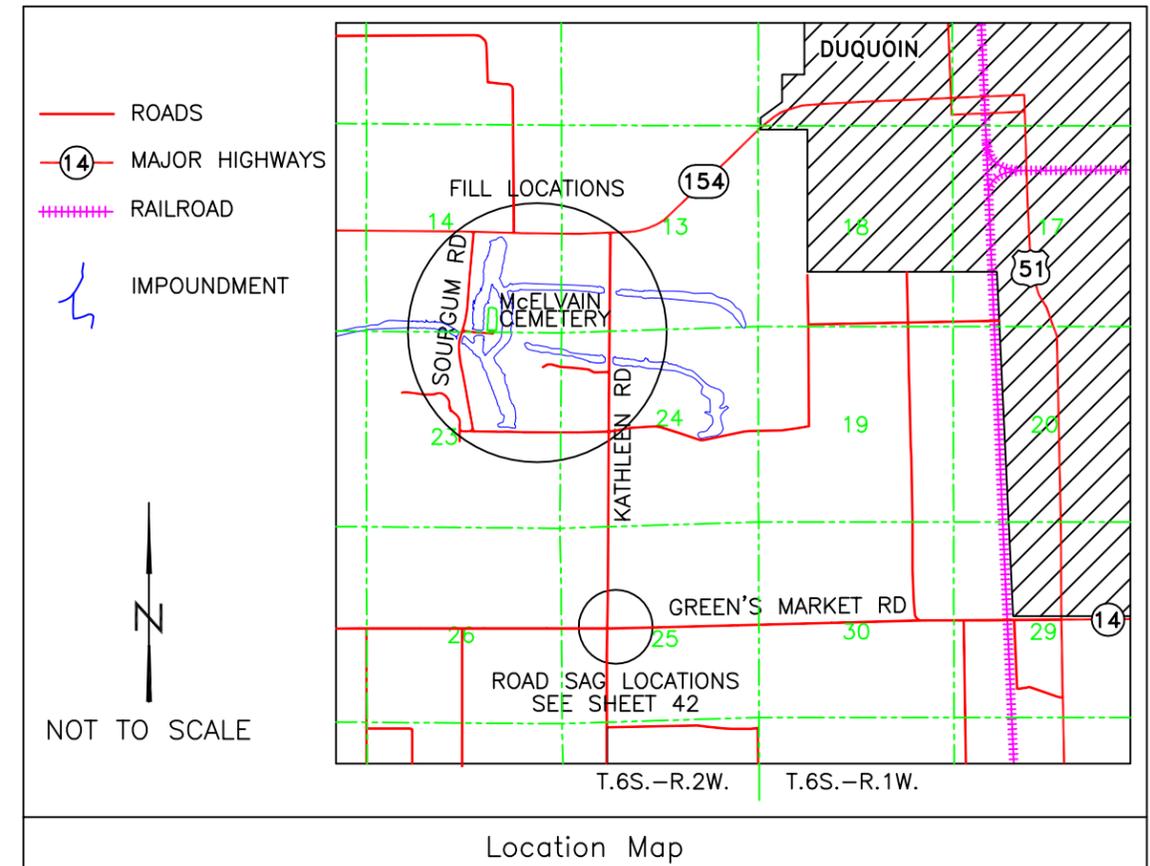
BURIAL/REMOVAL OF MATERIAL--Concrete and masonry debris designated for burial by the engineer shall be buried at least three foot below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 of the Special Provisions.

TREE REMOVAL--Trees cleared from the sites shall be disposed of onsite per Section 201 of the Special Provisions. Flagged trees as noted on the Existing Conditions sheets may not be removed from April 1 to October 15.

EROSION CONTROL--The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures that have become silted in or damaged.

AGRICULTURAL GROUND LIMESTONE--Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

MULCHING--Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 1 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.



Schedule of Seeding, Fertilizer Nutrients and Mulch

ITEM (unit)	INITIAL APPLICATION FALL 2023 AUG 20 - SEPT 30	SECOND APPLICATION SPRING 2024 JAN 1 - MARCH 15	MOWING	TOTAL QUANTITY
SEEDING (acres)	22.9		EXACT DATE TO BE SET BY ENGINEER	22.9
NITROGEN FERTILIZER NUTRIENT (pounds)	2,290	2,260		4,550
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	3,435			3,435
POTASSIUM FERTILIZER NUTRIENT (pounds)	4,580			4,580
AGRICULTURAL GROUND LIMESTONE (tons)	114.5			114.5
MULCH, METHOD 2 PROCEDURE 1 (acres)	22.9			22.9
MOWING (acres)			22.6	22.6
SEEDING, CLASS 7 (acres)	22.6 MAXIMUM			22.6

State of Illinois  
Department of Natural Resources  
Office of Mines and Minerals  
Abandoned Mined Lands Reclamation Division

Fidelity No. 11-McElvain Mine  
Group Reclamation Project  
AML-GPeE-2109  
Perry County

Drawn By :                      Date : 4/18/2022  
Checked By :                     

Summary of Quantities/General  
Notes/Location Map  
Sheet  
2 of 42

**NOTES**

Traffic Control consists of all Standards to be paid as LUMP SUM per Section 701.

Road Drainage is to be maintained during construction. Temporary culvert crossings may be required in accordance with Section 616.

Seeding Class 7 (Temporary) may be required as directed by the Engineer, up to 22.6 ACRE.

Kathleen Road, north of Yellow Brick Road, and Sourgum Road, the north/south portion, have been identified for use for this project's material hauling under the jurisdiction of the Perry County Highway Department. See Special Provisions for the Road Use Agreement that will be required. Compliance with the regulatory and permitting requirements of local road authorities is required for the satisfactory performance of the contract.

The Contractor shall notify in advance and coordinate with the Perry County Highway Engineer, Brian Otten, any temporary closure of Sourgum Road.

Refer to Sections 107.14, 107.15 and 170.16 of the Standard Specifications for the maintenance of traffic and public roads.

**Legend**

- 445 — EXISTING CONTOUR
- 410 — PROPOSED CONTOUR
- 410 — PROPOSED SHOT ROCK CONTOUR
- NOTE: CONTOURS AT 5 FT INTERVALS
- PROPOSED CONSTRUCTION LIMITS
- BASELINE FOR CROSS SECTIONS
- ▲ CONTROL POINT

**Control Point Information**

POINT	EASTING	NORTHING	ELEVATION	DESCRIPTION
1208_No1	2,553,439.193	485,219.629	462.028	REBAR WITH CAP
1206_No2	2,549,393.845	484,664.488	443.394	REBAR WITH CAP
1211_No3	2,549,337.238	481,989.474	463.298	REBAR WITH CAP
1212_No4	2,550,962.699	481,948.321	457.091	REBAR WITH CAP
No5	2,553,355.453	483,622.608	457.087	REBAR WITH CAP

**Fidelity No. 11-McElvain**

4/9      7/12

5/10      8/13

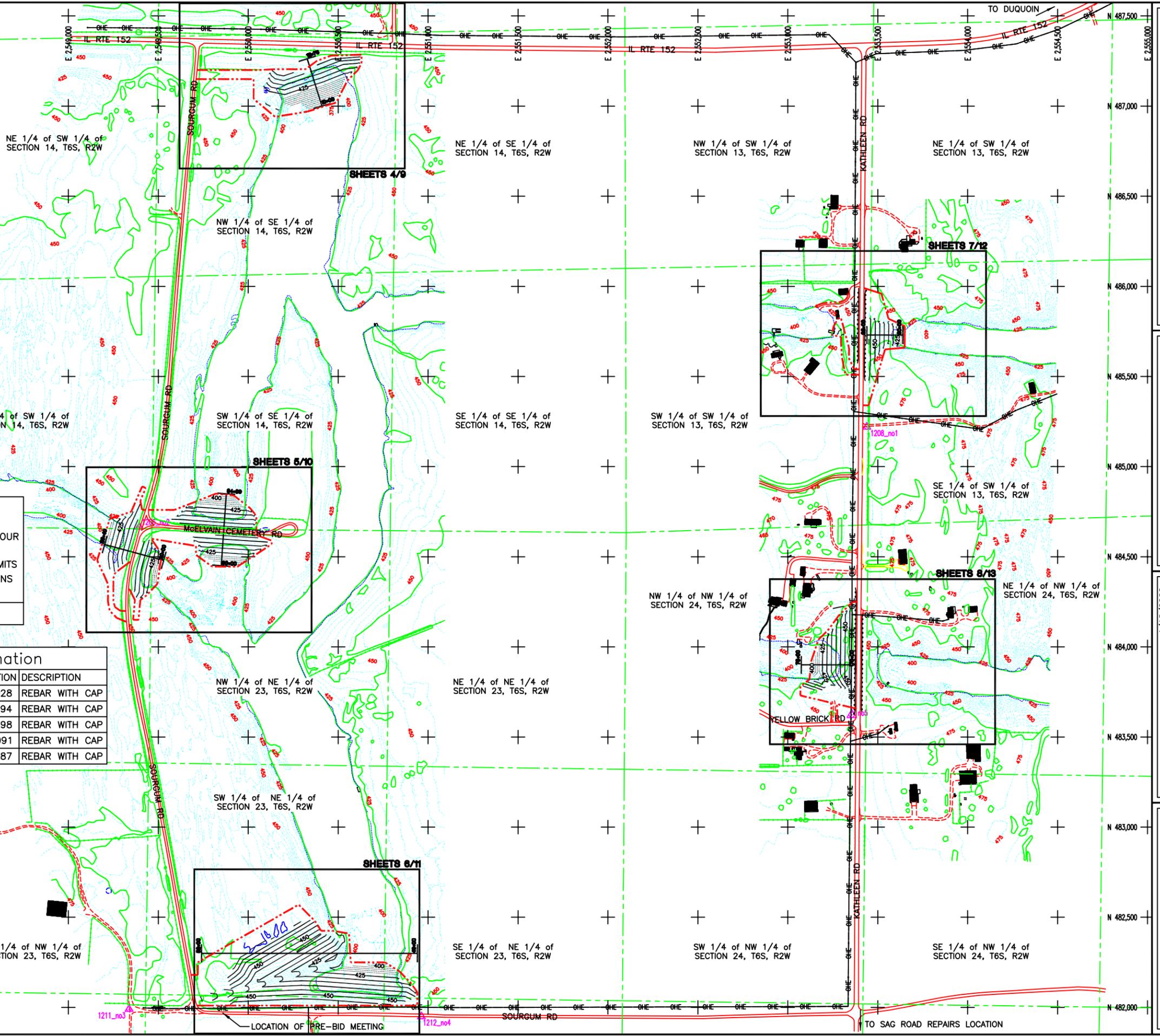
6/11

Sheet Layout

Existing/Proposed

0      250      500

SCALE IN FEET



State of Illinois  
 Department of Natural Resources  
 Office of Mines and Minerals  
 Abandoned Mined Lands Reclamation Division

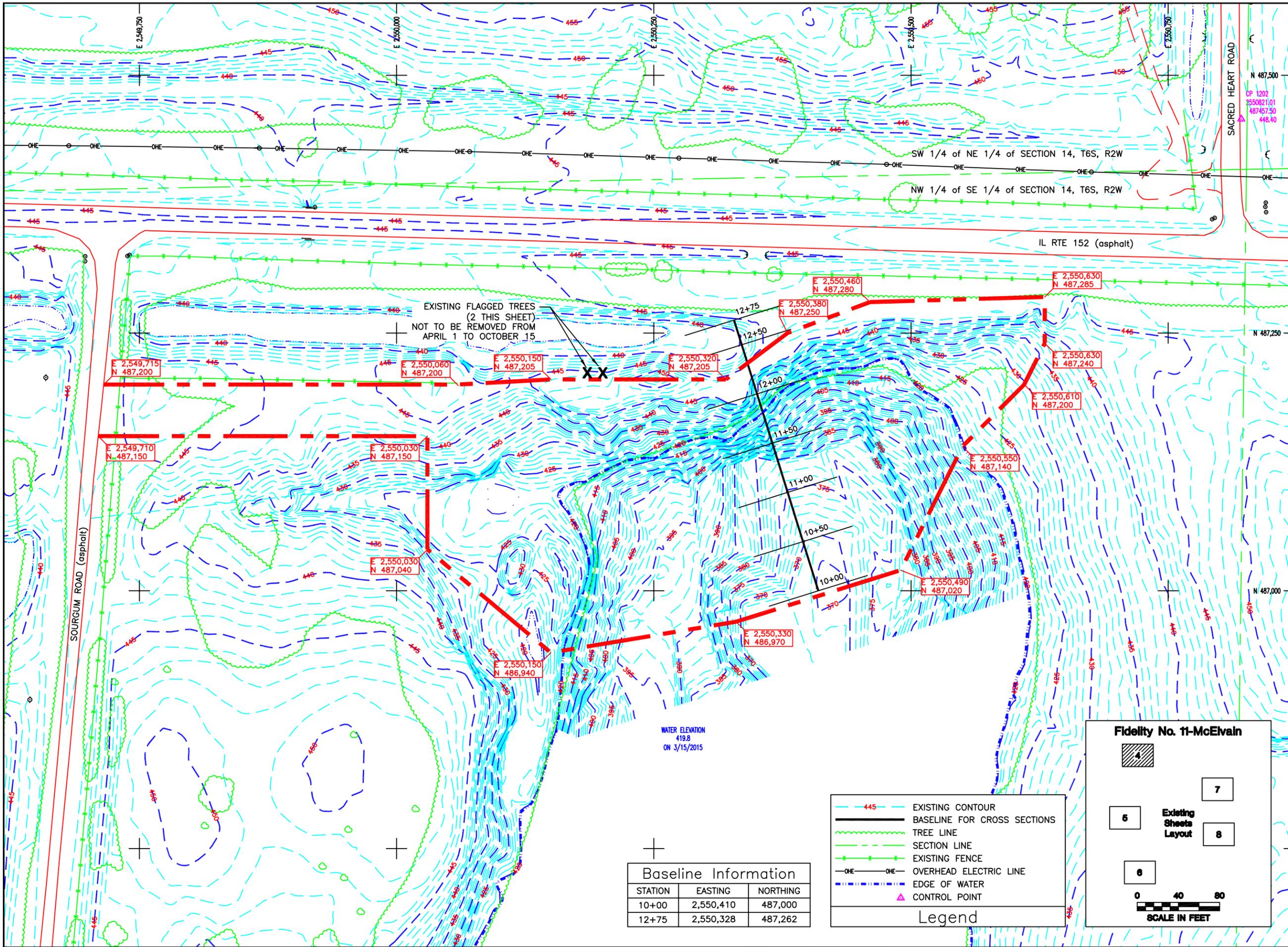
Fidelity No. 11-McElvain Mine  
 Group Reclamation Project  
 AML-GPeE-2109  
 Perry County

Drawn By: \_\_\_\_\_ Date: 4/18/2022

Checked By: \_\_\_\_\_

Site Layout and Information

Sheet 3 of 42



EXISTING FLAGGED TREES  
(2 THIS SHEET)  
NOT TO BE REMOVED FROM  
APRIL 1 TO OCTOBER 15

E 2,549,715  
N 487,200

E 2,550,060  
N 487,200

E 2,550,150  
N 487,205

E 2,550,320  
N 487,205

E 2,550,460  
N 487,280

E 2,550,630  
N 487,285

E 2,550,630  
N 487,240

E 2,550,610  
N 487,200

E 2,550,550  
N 487,140

E 2,550,490  
N 487,020

E 2,550,330  
N 486,970

E 2,550,150  
N 486,940

E 2,549,710  
N 487,150

E 2,550,030  
N 487,150

E 2,550,030  
N 487,040

WATER ELEVATION  
419.8  
ON 3/15/2015

Baseline Information		
STATION	EASTING	NORTHING
10+00	2,550,410	487,000
12+75	2,550,328	487,262

- Legend**
- 445 EXISTING CONTOUR
  - BASELINE FOR CROSS SECTIONS
  - TREE LINE
  - SECTION LINE
  - x EXISTING FENCE
  - OHE- OVERHEAD ELECTRIC LINE
  - EDGE OF WATER
  - ▲ CONTROL POINT

**Fidelity No. 11-McElvain**

**Existing  
Sheets  
Layout**

**SCALE IN FEET**

0      40      80

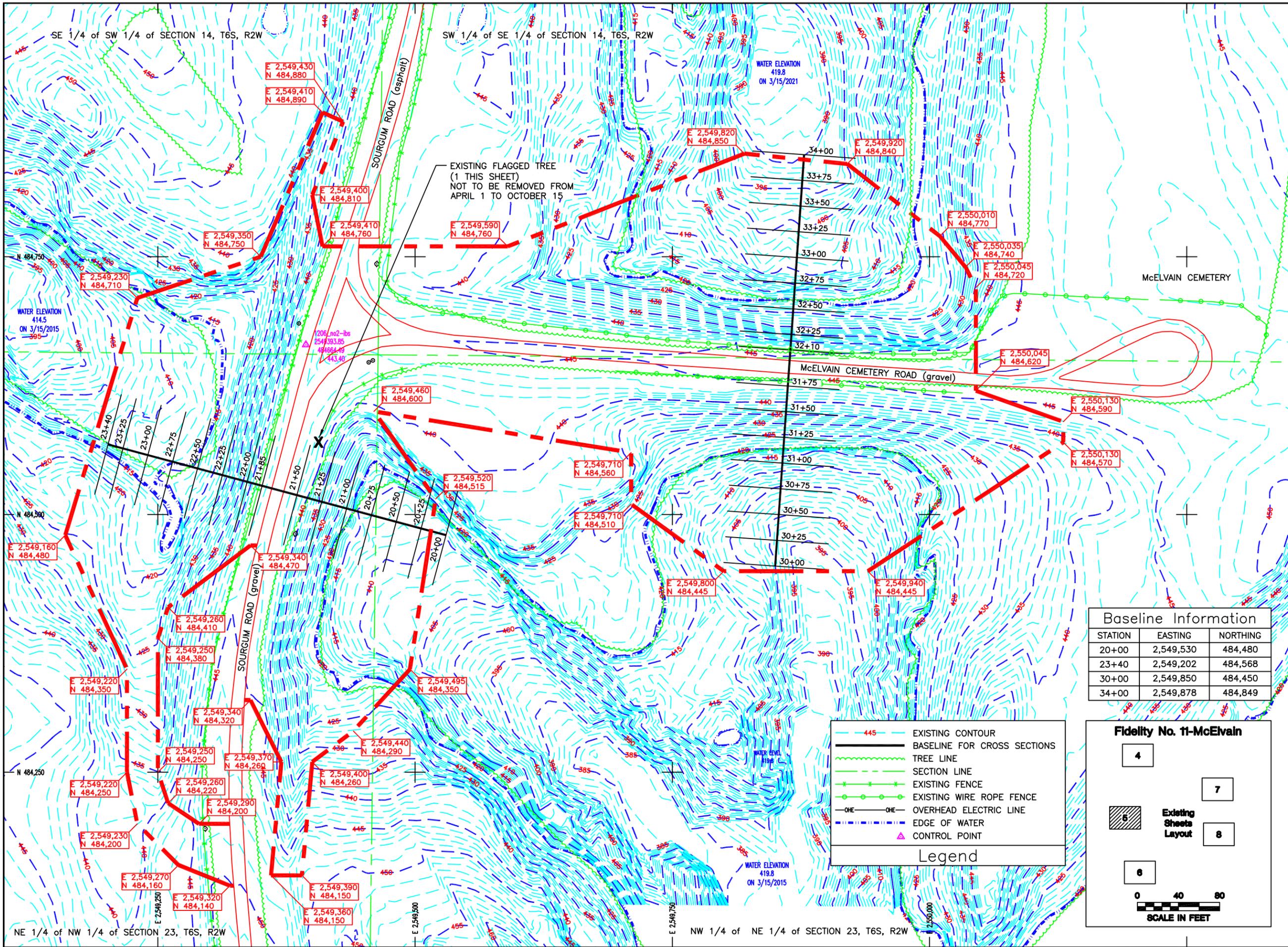
**State of Illinois**  
Department of Natural Resources  
Office of Mines and Minerals  
Abandoned Mined Lands Reclamation Division

**Fidelity No. 11-McElvain Mine**  
Group Reclamation Project  
AML-GPeE-2109  
Perry County

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**Existing Conditions**

**Sheet  
4 of 42**



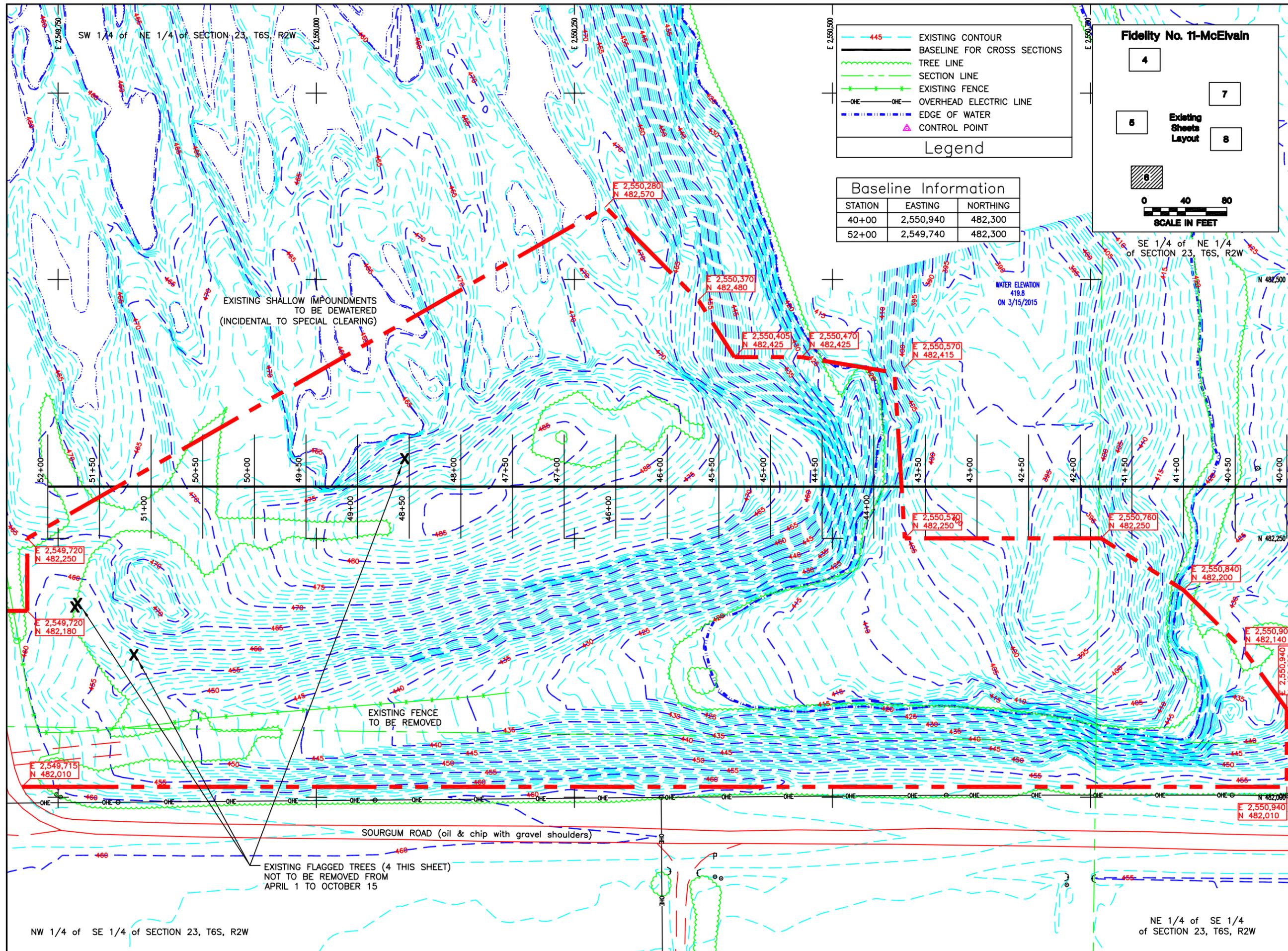
State of Illinois  
 Department of Natural Resources  
 Office of Mines and Minerals  
 Abandoned Mined Lands Reclamation Division

Fidelity No. 11-McElvain Mine  
 Group Reclamation Project  
 AML-GPeE-2109  
 Perry County

Drawn By : JLU  
 Date : 4/18/2022  
 Checked By :

Existing Conditions

Sheet 6 of 42



**Legend**

- 445 EXISTING CONTOUR
- BASELINE FOR CROSS SECTIONS
- TREE LINE
- SECTION LINE
- \* EXISTING FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- ▲ CONTROL POINT

**Baseline Information**

STATION	EASTING	NORTHING
40+00	2,550,940	482,300
52+00	2,549,740	482,300

**Fidelity No. 11-McElvain**

4

7

6

8

**Existing Sheets Layout**

0 40 80

**SCALE IN FEET**

State of Illinois  
 Department of Natural Resources  
 Office of Mines and Minerals  
 Abandoned Mined Lands Reclamation Division

Fidelity No. 11-McElvain Mine  
 Group Reclamation Project  
 AML-GPeE-2109  
 Perry County

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**Existing Conditions**  
 Sheet **6** of **42**

SW 1/4 of NE 1/4 of SECTION 23, T6S, R2W

SE 1/4 of NE 1/4 of SECTION 23, T6S, R2W

EXISTING SHALLOW IMPOUNDMENTS TO BE DEWATERED (INCIDENTAL TO SPECIAL CLEARING)

EXISTING FENCE TO BE REMOVED

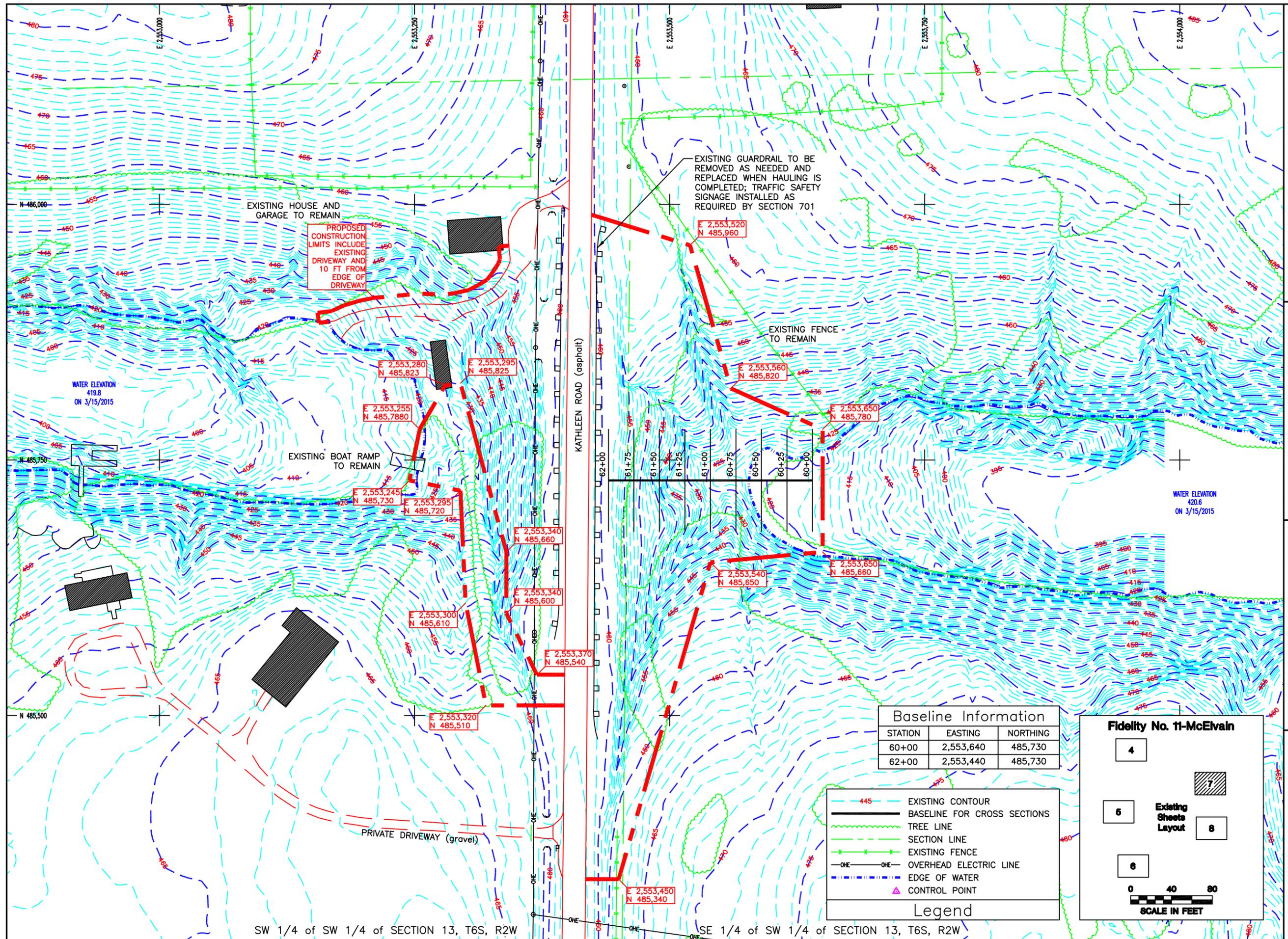
SOURGUM ROAD (oil & chip with gravel shoulders)

EXISTING FLAGGED TREES (4 THIS SHEET) NOT TO BE REMOVED FROM APRIL 1 TO OCTOBER 15

NW 1/4 of SE 1/4 of SECTION 23, T6S, R2W

NE 1/4 of SE 1/4 of SECTION 23, T6S, R2W

WATER ELEVATION 419.8 ON 3/15/2015



SW 1/4 of SW 1/4 of SECTION 13, T6S, R2W

SE 1/4 of SW 1/4 of SECTION 13, T6S, R2W

Baseline Information

STATION	EASTING	NORTHING
60+00	2,553,640	485,730
62+00	2,553,440	485,730

Symbol	Description
445	EXISTING CONTOUR
—	BASILINE FOR CROSS SECTIONS
—	TREE LINE
—	SECTION LINE
—	EXISTING FENCE
—	OVERHEAD ELECTRIC LINE
—	EDGE OF WATER
△	CONTROL POINT

Legend

**Fidelity No. 11-McElvain**

4

5

6

7

8

Existing Sheets Layout

0 40 80

SCALE IN FEET

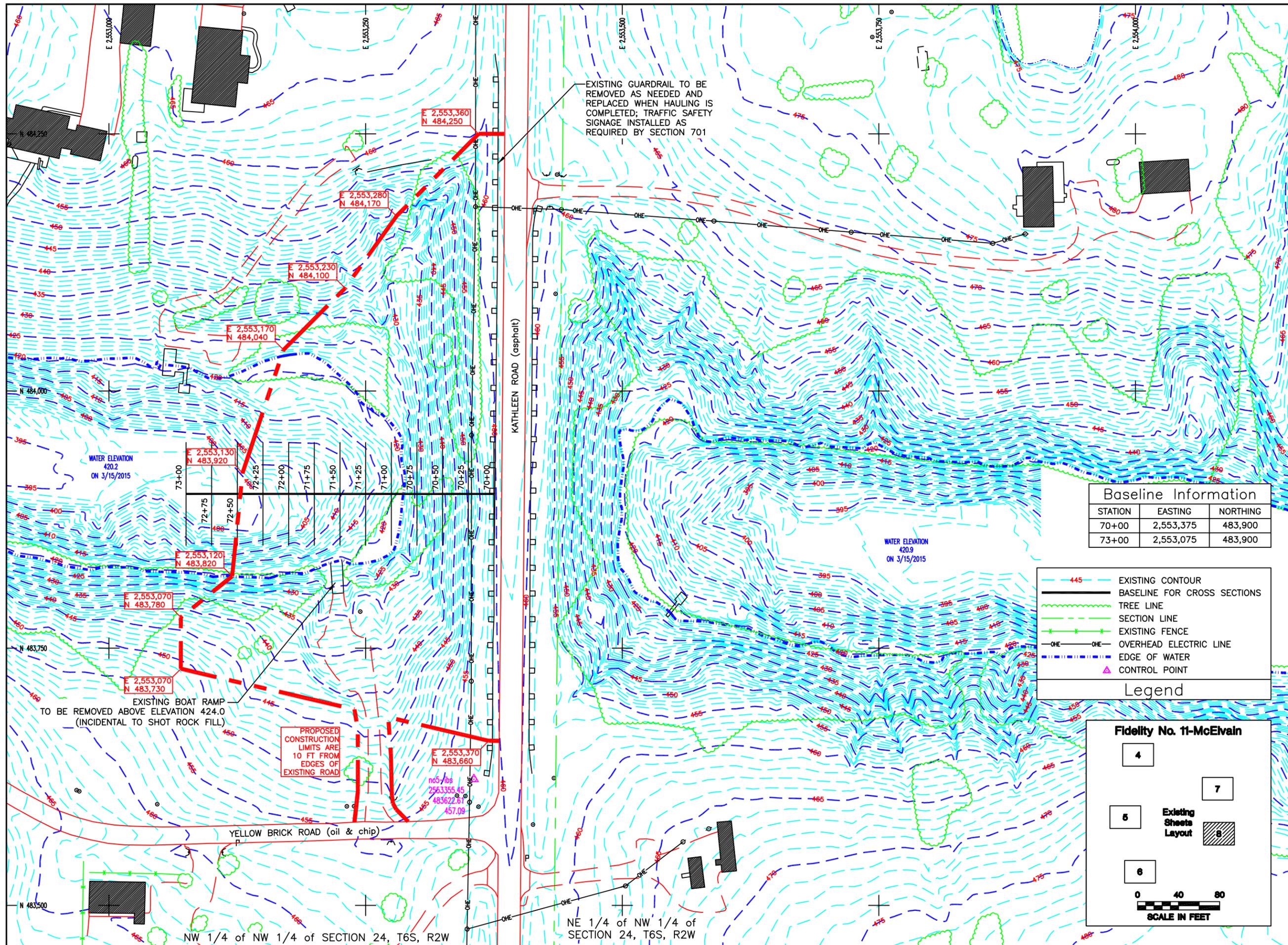
State of Illinois  
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 Abandoned Mined Lands Reclamation Division

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 Group Reclamation Project  
 AML-GPeE-2109  
 Perry County

Drawn By : JLU  
 Date : 4/18/2022  
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Existing Conditions

Sheet 7 of 42



EXISTING GUARDRAIL TO BE REMOVED AS NEEDED AND REPLACED WHEN HAULING IS COMPLETED; TRAFFIC SAFETY SIGNAGE INSTALLED AS REQUIRED BY SECTION 701

WATER ELEVATION 420.2 ON 3/15/2015

WATER ELEVATION 420.9 ON 3/15/2015

EXISTING BOAT RAMP TO BE REMOVED ABOVE ELEVATION 424.0 (INCIDENTAL TO SHOT ROCK FILL)

PROPOSED CONSTRUCTION LIMITS ARE 10 FT FROM EDGES OF EXISTING ROAD

Baseline Information		
STATION	EASTING	NORTHING
70+00	2,553,375	483,900
73+00	2,553,075	483,900

**Legend**

- 445 EXISTING CONTOUR
- BASELINE FOR CROSS SECTIONS
- TREE LINE
- SECTION LINE
- x EXISTING FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- ▲ CONTROL POINT

**Fidelity No. 11-McElvain**

4

7

5

8

Existing Sheets Layout

SCALE IN FEET

NW 1/4 of NW 1/4 of SECTION 24, T6S, R2W

NE 1/4 of NW 1/4 of SECTION 24, T6S, R2W

State of Illinois  
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Abandoned Mined Lands Reclamation Division

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Fidelity No. 11-McElvain Mine  
Group Reclamation Project  
AML-GPeE-2109  
Perry County

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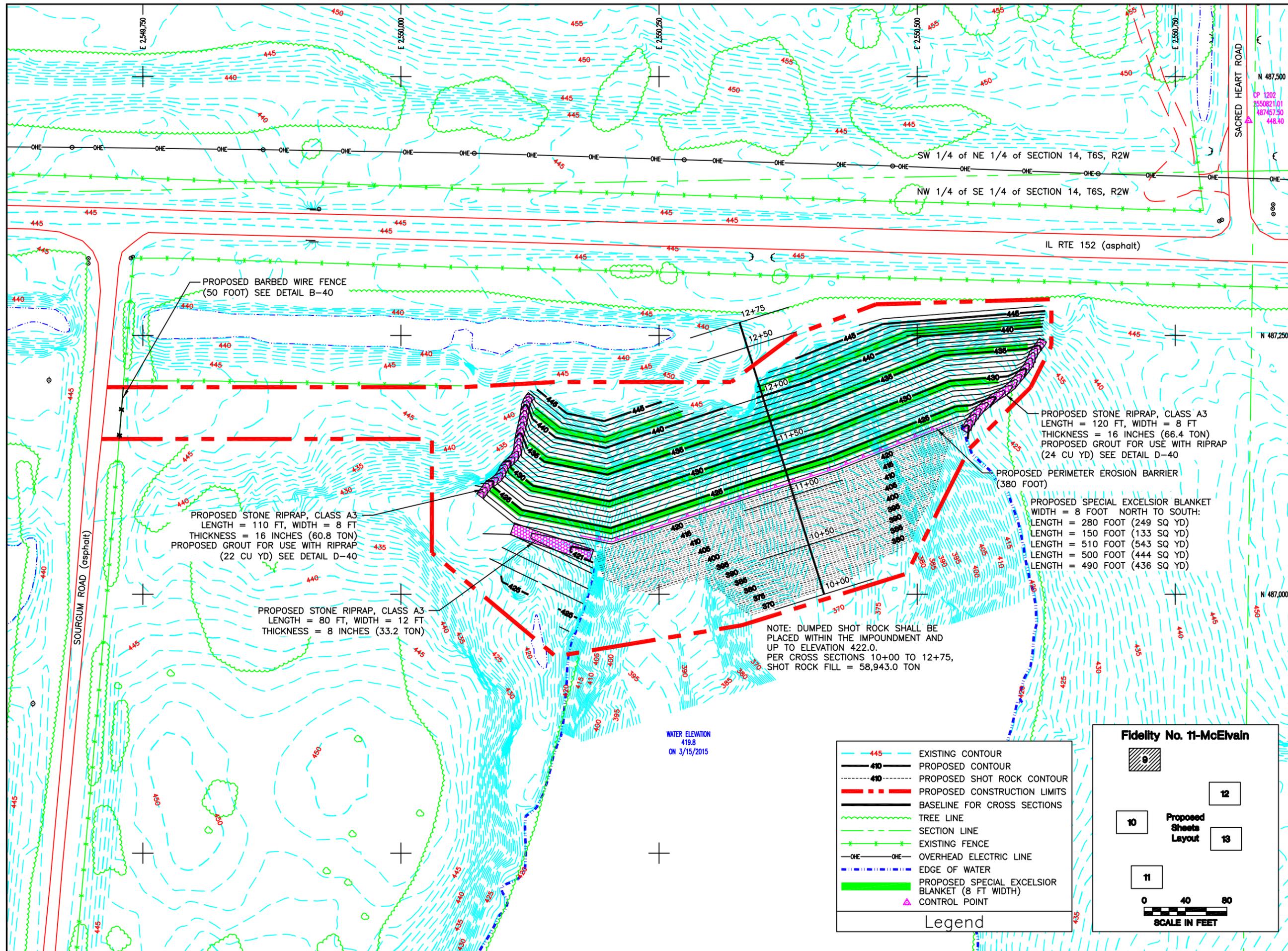
Drawn By :                      Date : 4/18/2022  
Checked By :                     

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Existing Conditions

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Sheet  
8 of 42



PROPOSED BARBED WIRE FENCE  
(50 FOOT) SEE DETAIL B-40

PROPOSED STONE RIPRAP, CLASS A3  
LENGTH = 110 FT, WIDTH = 8 FT  
THICKNESS = 16 INCHES (60.8 TON)  
PROPOSED GROUT FOR USE WITH RIPRAP  
(22 CU YD) SEE DETAIL D-40

PROPOSED STONE RIPRAP, CLASS A3  
LENGTH = 80 FT, WIDTH = 12 FT  
THICKNESS = 8 INCHES (33.2 TON)

PROPOSED STONE RIPRAP, CLASS A3  
LENGTH = 120 FT, WIDTH = 8 FT  
THICKNESS = 16 INCHES (66.4 TON)  
PROPOSED GROUT FOR USE WITH RIPRAP  
(24 CU YD) SEE DETAIL D-40

PROPOSED PERIMETER EROSION BARRIER  
(380 FOOT)

PROPOSED SPECIAL EXCELSIOR BLANKET  
WIDTH = 8 FOOT NORTH TO SOUTH:  
LENGTH = 280 FOOT (249 SQ YD)  
LENGTH = 150 FOOT (133 SQ YD)  
LENGTH = 510 FOOT (543 SQ YD)  
LENGTH = 500 FOOT (444 SQ YD)  
LENGTH = 490 FOOT (436 SQ YD)

NOTE: DUMPED SHOT ROCK SHALL BE  
PLACED WITHIN THE IMPOUNDMENT AND  
UP TO ELEVATION 422.0.  
PER CROSS SECTIONS 10+00 TO 12+75,  
SHOT ROCK FILL = 58,943.0 TON

WATER ELEVATION  
419.8  
ON 3/15/2015

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SHOT ROCK CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	BASELINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	EXISTING FENCE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
	CONTROL POINT

Legend

**Fidelity No. 11-McElvain**

9

10

11

12

13

Proposed Sheets Layout

0 40 80

SCALE IN FEET

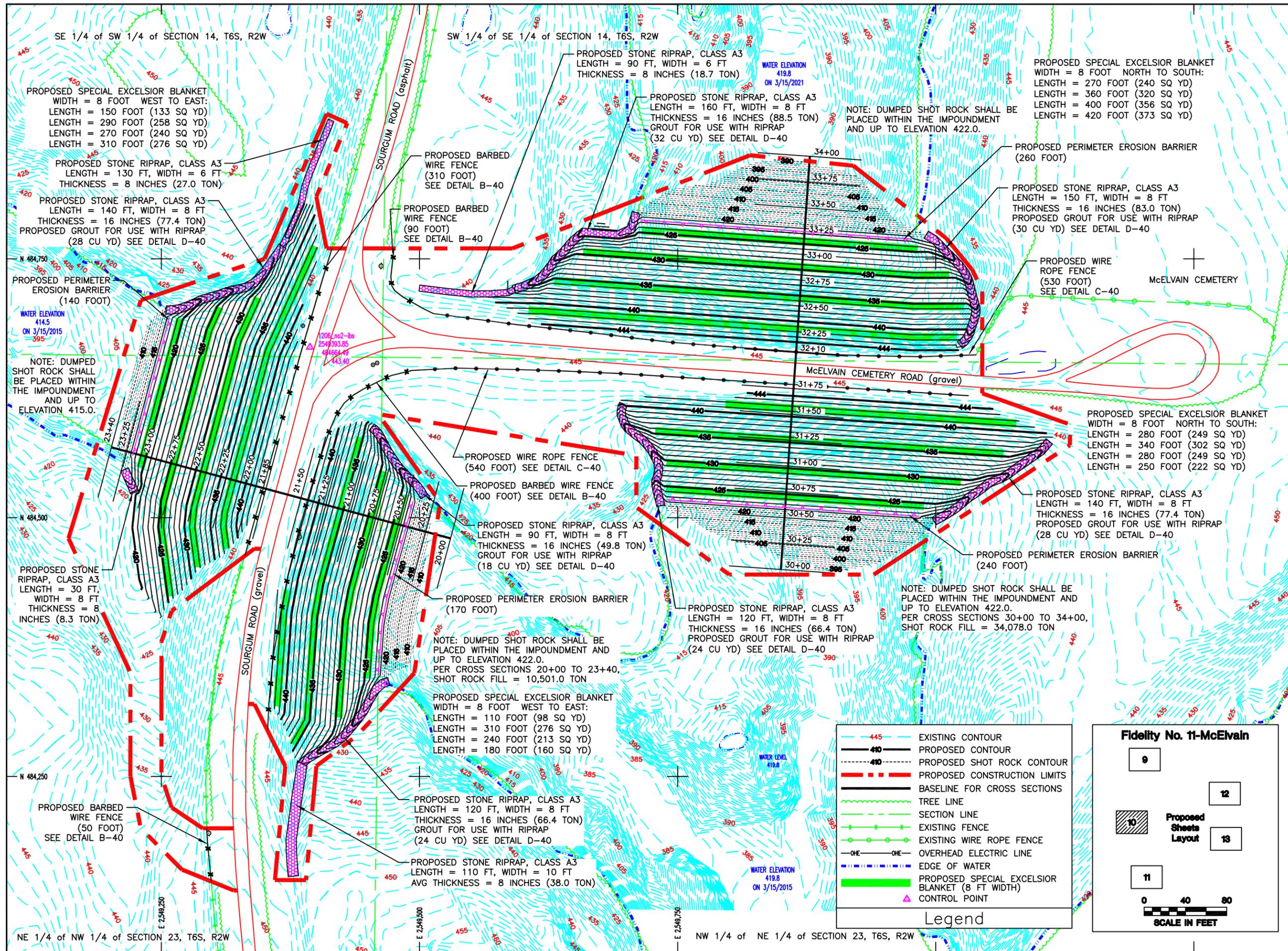
State of Illinois  
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Fidelity No. 11-McElvain Mine  
Group Reclamation Project  
AML-GPeE-2109  
Perry County

Drawn By : JLU  
Date : 4/18/2022  
Checked By :

Proposed Conditions

Sheet 9 of 42



PROPOSED SPECIAL EXCELSIOR BLANKET  
 WIDTH = 8 FOOT WEST TO EAST:  
 LENGTH = 150 FOOT (133 SQ YD)  
 LENGTH = 290 FOOT (258 SQ YD)  
 LENGTH = 270 FOOT (240 SQ YD)  
 LENGTH = 310 FOOT (276 SQ YD)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 130 FT, WIDTH = 6 FT  
 THICKNESS = 8 INCHES (27.0 TON)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 140 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (77.4 TON)  
 PROPOSED GROUT FOR USE WITH RIPRAP  
 (28 CU YD) SEE DETAIL D-40

PROPOSED PERIMETER  
 EROSION BARRIER  
 (140 FOOT)

WATER ELEVATION  
 414.5  
 ON 3/15/2015

NOTE: DUMPED SHOT ROCK SHALL  
 BE PLACED WITHIN THE IMPOUNDMENT  
 AND UP TO ELEVATION 415.0.

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 30 FT, WIDTH = 8 FT  
 THICKNESS = 8 INCHES (8.3 TON)

PROPOSED BARBED  
 WIRE FENCE  
 (50 FOOT)  
 SEE DETAIL B-40

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 90 FT, WIDTH = 6 FT  
 THICKNESS = 8 INCHES (18.7 TON)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 160 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (88.5 TON)  
 GROUT FOR USE WITH RIPRAP  
 (32 CU YD) SEE DETAIL D-40

PROPOSED BARBED  
 WIRE FENCE  
 (310 FOOT)  
 SEE DETAIL B-40

PROPOSED BARBED  
 WIRE FENCE  
 (90 FOOT)  
 SEE DETAIL B-40

PROPOSED WIRE ROPE FENCE  
 (540 FOOT) SEE DETAIL C-40

PROPOSED BARBED WIRE FENCE  
 (400 FOOT) SEE DETAIL B-40

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 90 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (49.8 TON)  
 GROUT FOR USE WITH RIPRAP  
 (18 CU YD) SEE DETAIL D-40

PROPOSED PERIMETER EROSION BARRIER  
 (170 FOOT)

NOTE: DUMPED SHOT ROCK SHALL BE  
 PLACED WITHIN THE IMPOUNDMENT AND  
 UP TO ELEVATION 422.0.  
 PER CROSS SECTIONS 20+00 TO 23+40,  
 SHOT ROCK FILL = 10,501.0 TON

PROPOSED SPECIAL EXCELSIOR BLANKET  
 WIDTH = 8 FOOT WEST TO EAST:  
 LENGTH = 110 FOOT (98 SQ YD)  
 LENGTH = 310 FOOT (276 SQ YD)  
 LENGTH = 240 FOOT (213 SQ YD)  
 LENGTH = 180 FOOT (160 SQ YD)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 120 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (66.4 TON)  
 GROUT FOR USE WITH RIPRAP  
 (24 CU YD) SEE DETAIL D-40

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 110 FT, WIDTH = 10 FT  
 AVG THICKNESS = 8 INCHES (38.0 TON)

WATER ELEVATION  
 419.8  
 ON 3/15/2021

NOTE: DUMPED SHOT ROCK SHALL BE  
 PLACED WITHIN THE IMPOUNDMENT  
 AND UP TO ELEVATION 422.0.

PROPOSED SPECIAL EXCELSIOR BLANKET  
 WIDTH = 8 FOOT NORTH TO SOUTH:  
 LENGTH = 270 FOOT (240 SQ YD)  
 LENGTH = 360 FOOT (320 SQ YD)  
 LENGTH = 400 FOOT (356 SQ YD)  
 LENGTH = 420 FOOT (373 SQ YD)

PROPOSED PERIMETER EROSION BARRIER  
 (260 FOOT)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 150 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (83.0 TON)  
 PROPOSED GROUT FOR USE WITH RIPRAP  
 (30 CU YD) SEE DETAIL D-40

PROPOSED WIRE  
 ROPE FENCE  
 (530 FOOT)  
 SEE DETAIL C-40

PROPOSED SPECIAL EXCELSIOR BLANKET  
 WIDTH = 8 FOOT NORTH TO SOUTH:  
 LENGTH = 280 FOOT (249 SQ YD)  
 LENGTH = 340 FOOT (302 SQ YD)  
 LENGTH = 280 FOOT (249 SQ YD)  
 LENGTH = 250 FOOT (222 SQ YD)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 140 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (77.4 TON)  
 PROPOSED GROUT FOR USE WITH RIPRAP  
 (28 CU YD) SEE DETAIL D-40

PROPOSED PERIMETER EROSION BARRIER  
 (240 FOOT)

NOTE: DUMPED SHOT ROCK SHALL BE  
 PLACED WITHIN THE IMPOUNDMENT AND  
 UP TO ELEVATION 422.0.  
 PER CROSS SECTIONS 30+00 TO 34+00,  
 SHOT ROCK FILL = 34,078.0 TON

**Legend**

- 445 EXISTING CONTOUR
- 410 PROPOSED CONTOUR
- 410 PROPOSED SHOT ROCK CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- BASILINE FOR CROSS SECTIONS
- TREE LINE
- SECTION LINE
- EXISTING FENCE
- EXISTING WIRE ROPE FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
- CONTROL POINT

**Fidelity No. 11-McElvain**

9

12

10 Proposed Sheets Layout

13

11

0 40 80  
 SCALE IN FEET

State of Illinois  
 Department of Natural Resources  
 Office of Mines and Minerals  
 Abandoned Mined Lands Reclamation Division

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Fidelity No. 11-McElvain Mine  
 Group Reclamation Project  
 AML-GPeE-2109  
 Perry County

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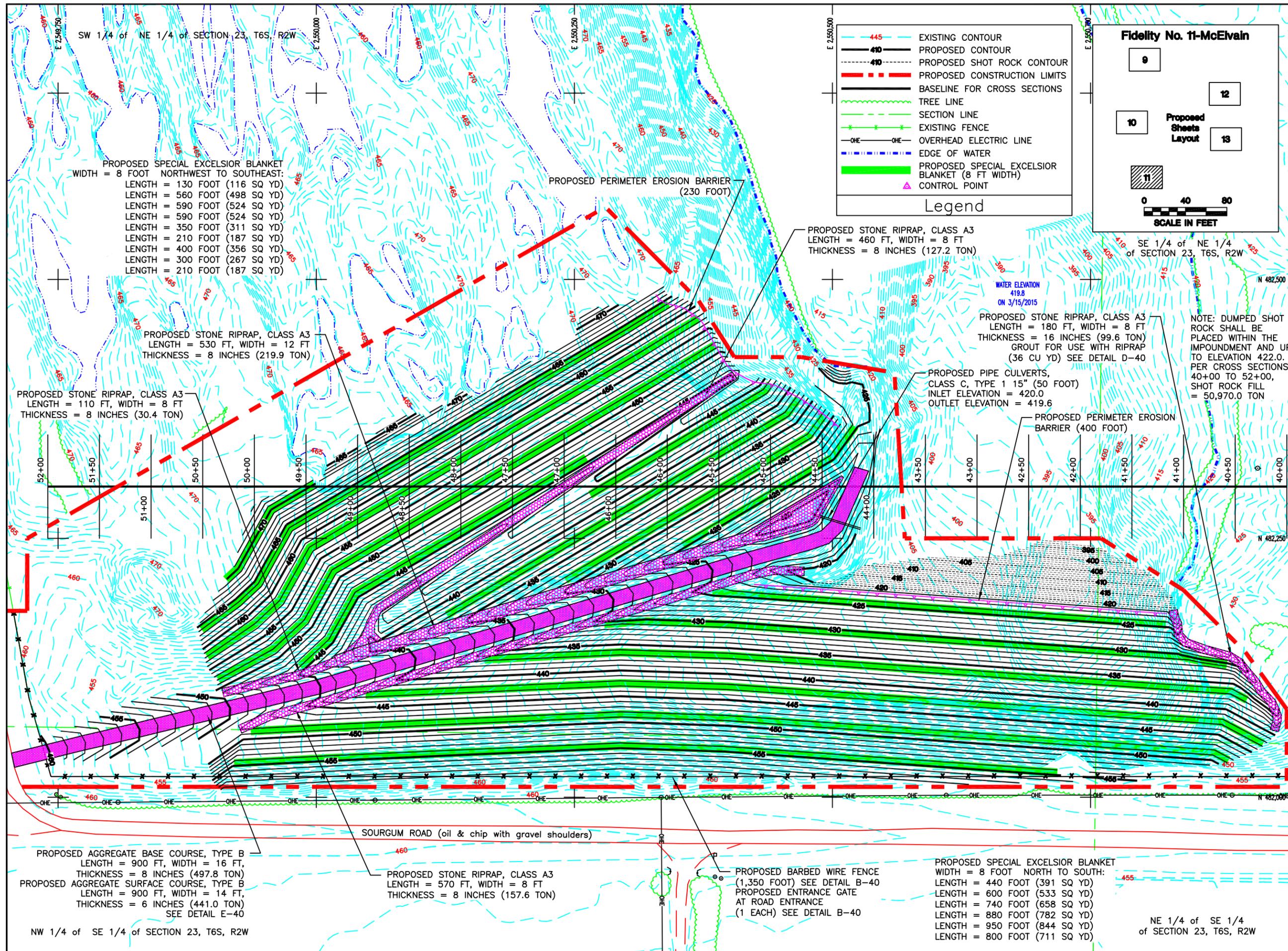
Drawn By : \_\_\_\_\_ Date : 4/18/2022  
 Checked By : \_\_\_\_\_

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Proposed Conditions

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Sheet 10 of 42



**Legend**

- 445 EXISTING CONTOUR
- 410 PROPOSED CONTOUR
- 410 PROPOSED SHOT ROCK CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- BASILINE FOR CROSS SECTIONS
- TREE LINE
- SECTION LINE
- EXISTING FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
- CONTROL POINT

**Fidelity No. 11-McElvain**

9

12

10 Proposed Sheets Layout 13

0 40 80  
SCALE IN FEET

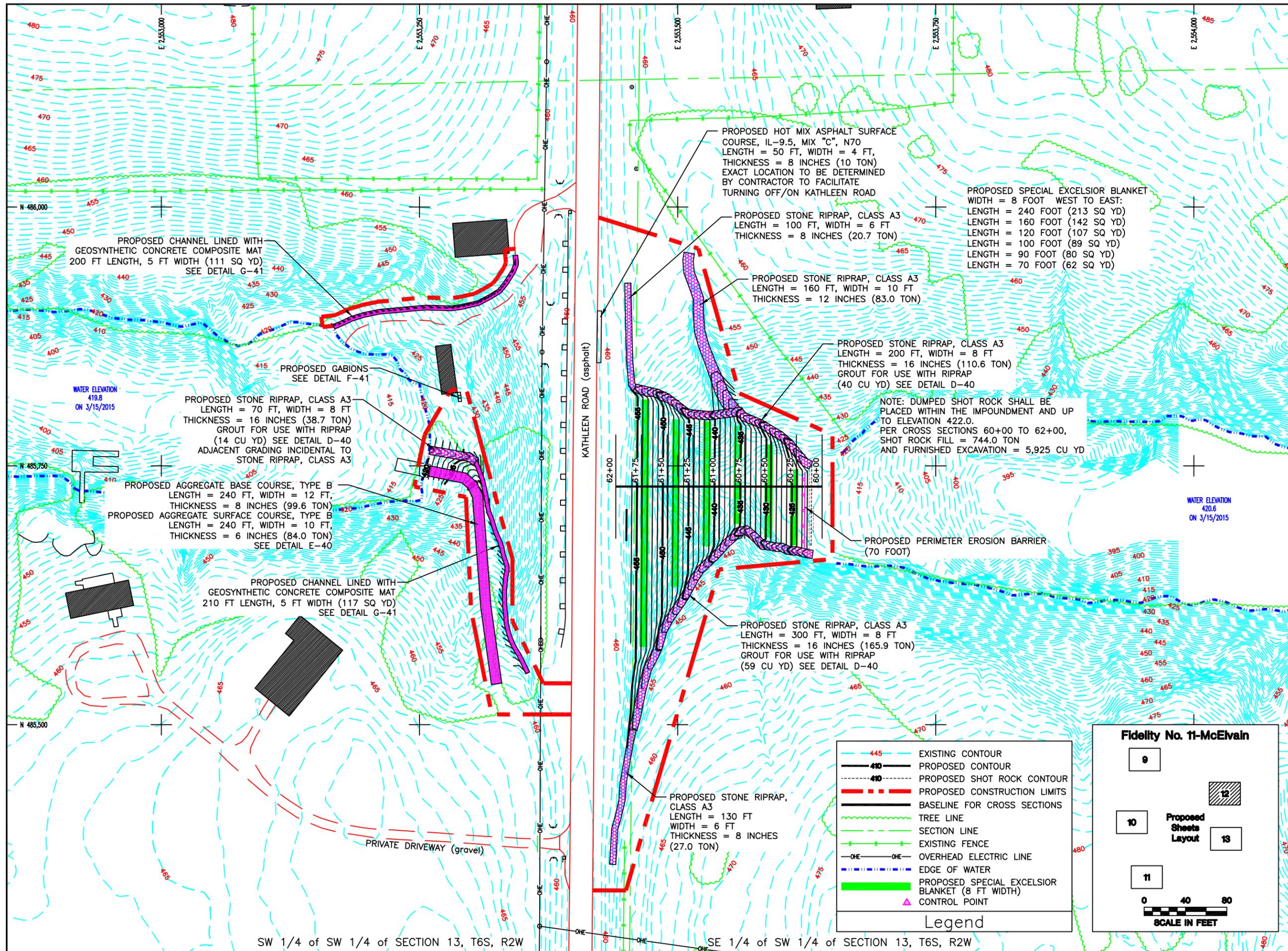
State of Illinois  
 Department of Natural Resources  
 Office of Mines and Minerals  
 Abandoned Mined Lands Reclamation Division

Fidelity No. 11-McElvain Mine  
 Group Reclamation Project  
 AML-GP0E-2109  
 Perry County

Drawn By : JLU Date : 4/18/2022  
 Checked By :

**Proposed Conditions**

Sheet 11 of 42



SW 1/4 of SW 1/4 of SECTION 13, T6S, R2W

SE 1/4 of SW 1/4 of SECTION 13, T6S, R2W

PROPOSED HOT MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70  
 LENGTH = 50 FT, WIDTH = 4 FT,  
 THICKNESS = 8 INCHES (10 TON)  
 EXACT LOCATION TO BE DETERMINED  
 BY CONTRACTOR TO FACILITATE  
 TURNING OFF/ON KATHLEEN ROAD

PROPOSED SPECIAL EXCELSIOR BLANKET  
 WIDTH = 8 FOOT WEST TO EAST:  
 LENGTH = 240 FOOT (213 SQ YD)  
 LENGTH = 160 FOOT (142 SQ YD)  
 LENGTH = 120 FOOT (107 SQ YD)  
 LENGTH = 100 FOOT (89 SQ YD)  
 LENGTH = 90 FOOT (80 SQ YD)  
 LENGTH = 70 FOOT (62 SQ YD)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 100 FT, WIDTH = 6 FT  
 THICKNESS = 8 INCHES (20.7 TON)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 160 FT, WIDTH = 10 FT  
 THICKNESS = 12 INCHES (83.0 TON)

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 200 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (110.6 TON)  
 GROUT FOR USE WITH RIPRAP  
 (40 CU YD) SEE DETAIL D-40

NOTE: DUMPED SHOT ROCK SHALL BE  
 PLACED WITHIN THE IMPOUNDMENT AND UP  
 TO ELEVATION 422.0.  
 PER CROSS SECTIONS 60+00 TO 62+00,  
 SHOT ROCK FILL = 744.0 TON  
 AND FURNISHED EXCAVATION = 5,925 CU YD

PROPOSED CHANNEL LINED WITH  
 GEOSYNTHETIC CONCRETE COMPOSITE MAT  
 200 FT LENGTH, 5 FT WIDTH (111 SQ YD)  
 SEE DETAIL G-41

PROPOSED GABIONS  
 SEE DETAIL F-41

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 70 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (38.7 TON)  
 GROUT FOR USE WITH RIPRAP  
 (14 CU YD) SEE DETAIL D-40  
 ADJACENT GRADING INCIDENTAL TO  
 STONE RIPRAP, CLASS A3

PROPOSED AGGREGATE BASE COURSE, TYPE B  
 LENGTH = 240 FT, WIDTH = 12 FT,  
 THICKNESS = 8 INCHES (99.6 TON)  
 PROPOSED AGGREGATE SURFACE COURSE, TYPE B  
 LENGTH = 240 FT, WIDTH = 10 FT,  
 THICKNESS = 6 INCHES (84.0 TON)  
 SEE DETAIL E-40

PROPOSED CHANNEL LINED WITH  
 GEOSYNTHETIC CONCRETE COMPOSITE MAT  
 210 FT LENGTH, 5 FT WIDTH (117 SQ YD)  
 SEE DETAIL G-41

PROPOSED STONE RIPRAP, CLASS A3  
 LENGTH = 300 FT, WIDTH = 8 FT  
 THICKNESS = 16 INCHES (165.9 TON)  
 GROUT FOR USE WITH RIPRAP  
 (59 CU YD) SEE DETAIL D-40

PROPOSED STONE RIPRAP,  
 CLASS A3  
 LENGTH = 130 FT  
 WIDTH = 6 FT  
 THICKNESS = 8 INCHES  
 (27.0 TON)

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SHOT ROCK CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	BASILINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	EXISTING FENCE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
	CONTROL POINT

**Fidelity No. 11-McElvain**

9

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11

12

13

**Proposed Sheets Layout**

0 40 80

**SCALE IN FEET**

**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Abandoned Mined Lands Reclamation Division**

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**Fidelity No. 11-McElvain Mine**  
**Group Reclamation Project**  
**AML-GPeE-2109**  
**Perry County**

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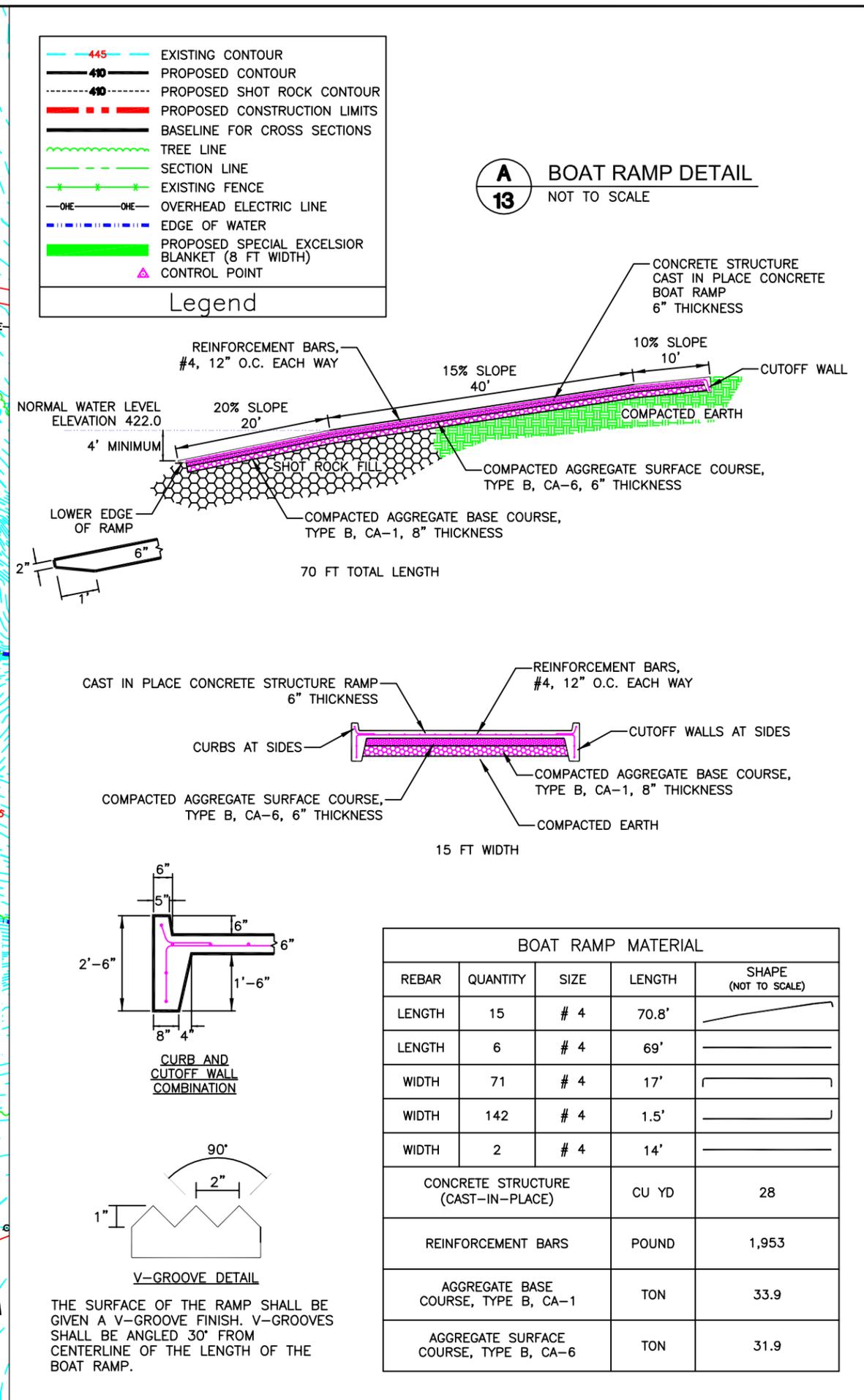
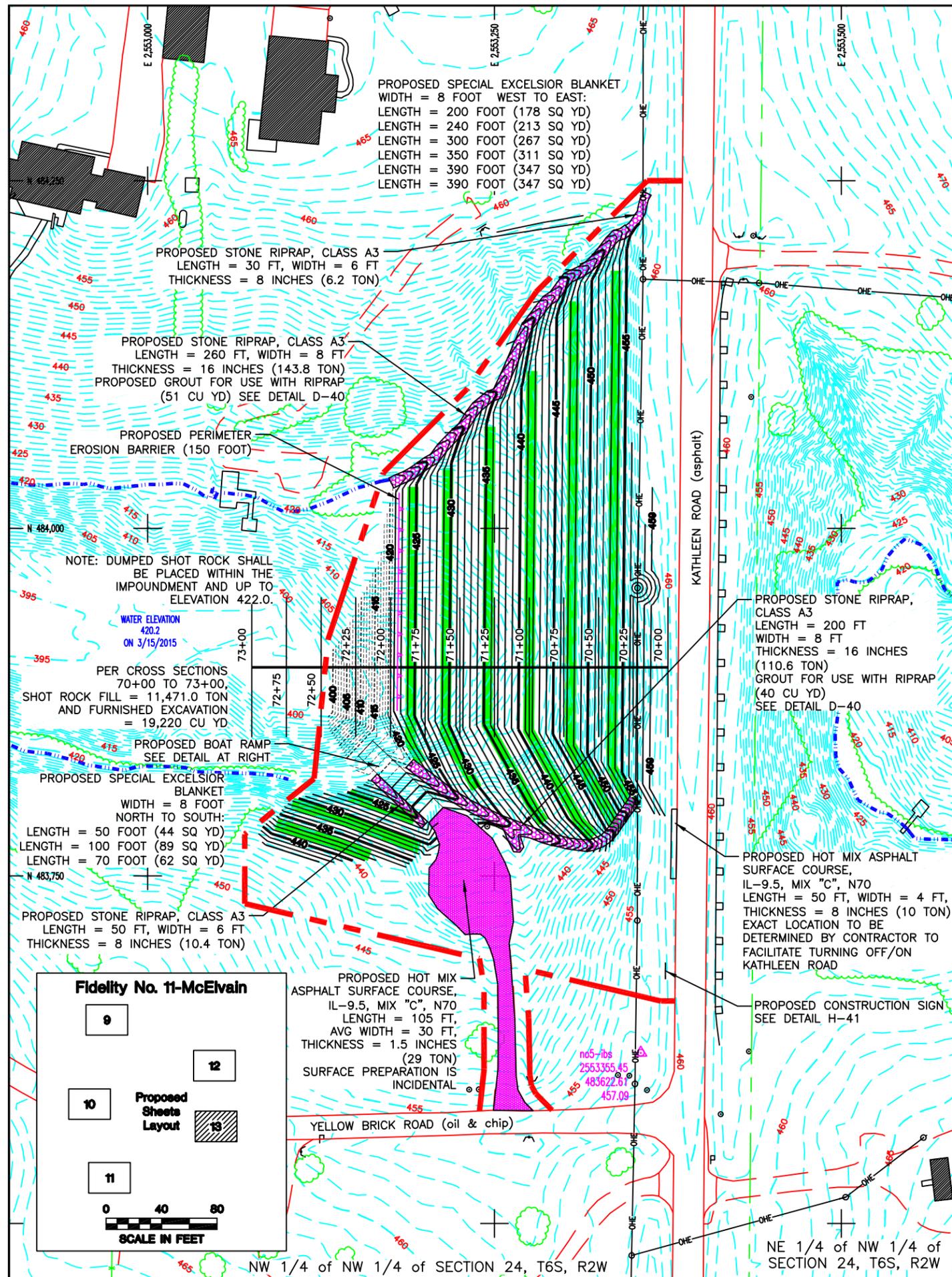
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 Checked By : \_\_\_\_\_

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**Proposed Conditions**

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**Sheet 12 of 42**



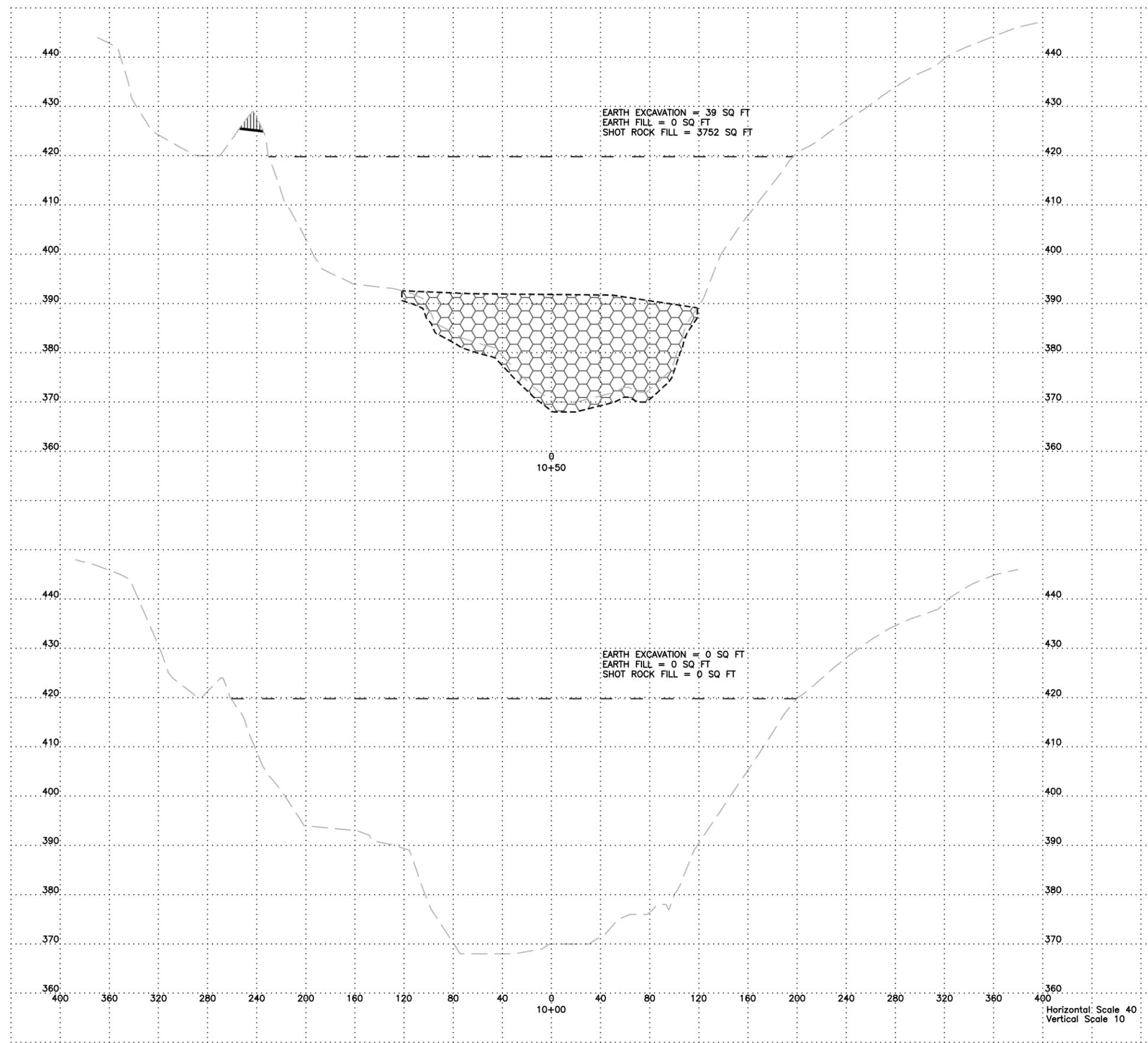
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**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Abandoned Mined Lands Reclamation Division**

**Fidelity No. 11-McElvain Mine**  
**Group Reclamation Project**  
**AML-GPeE-2109**  
**Perry County**

Drawn By : JLU  
 Date : 4/18/2022  
 Checked By : \_\_\_\_\_

**Proposed Conditions**

**Sheet 13 of 42**



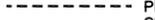
**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

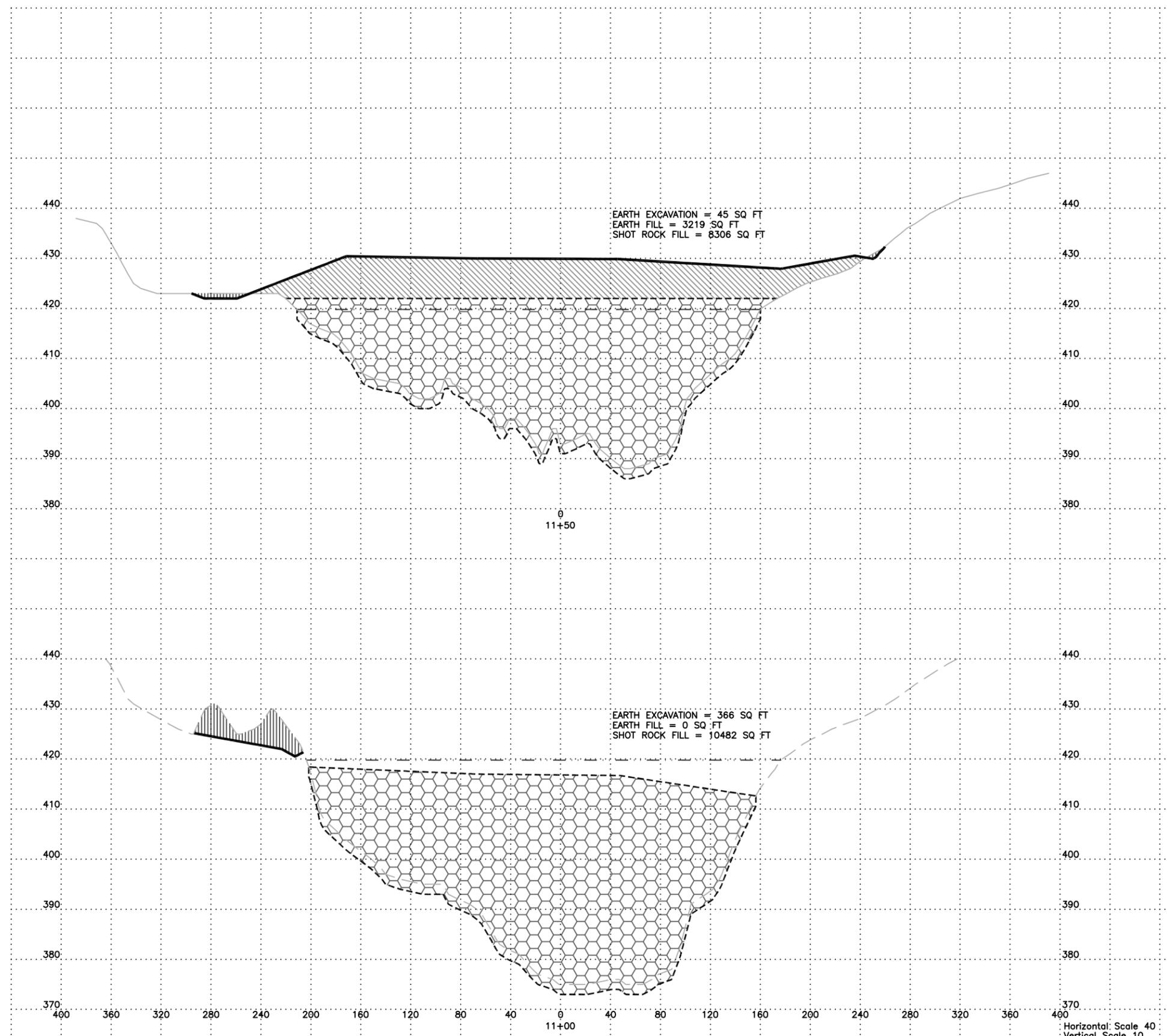
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Horizontal Scale 40  
 Vertical Scale 10

**LEGEND**

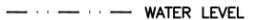
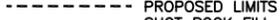
	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

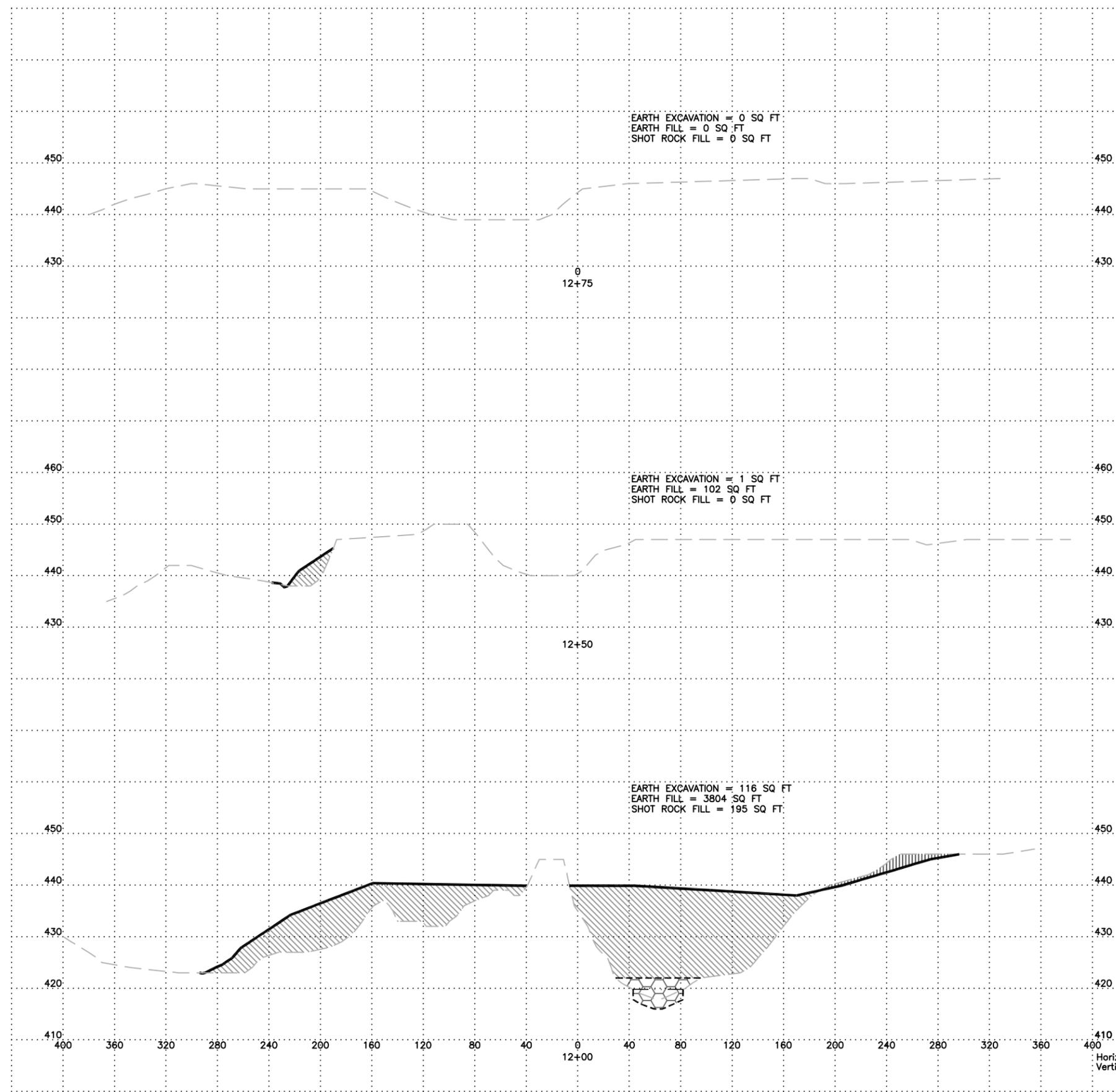


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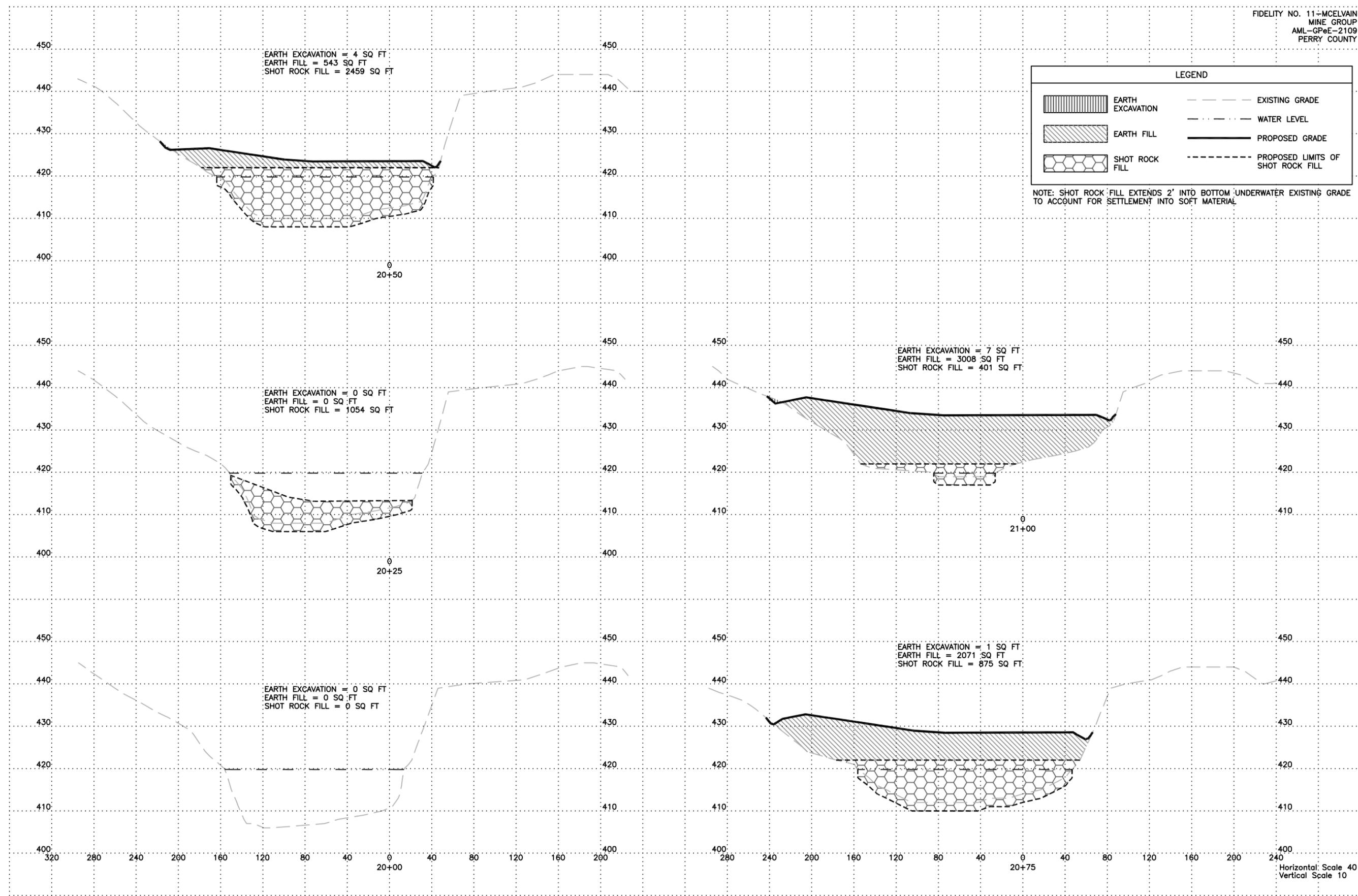
**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

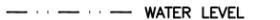
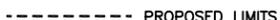


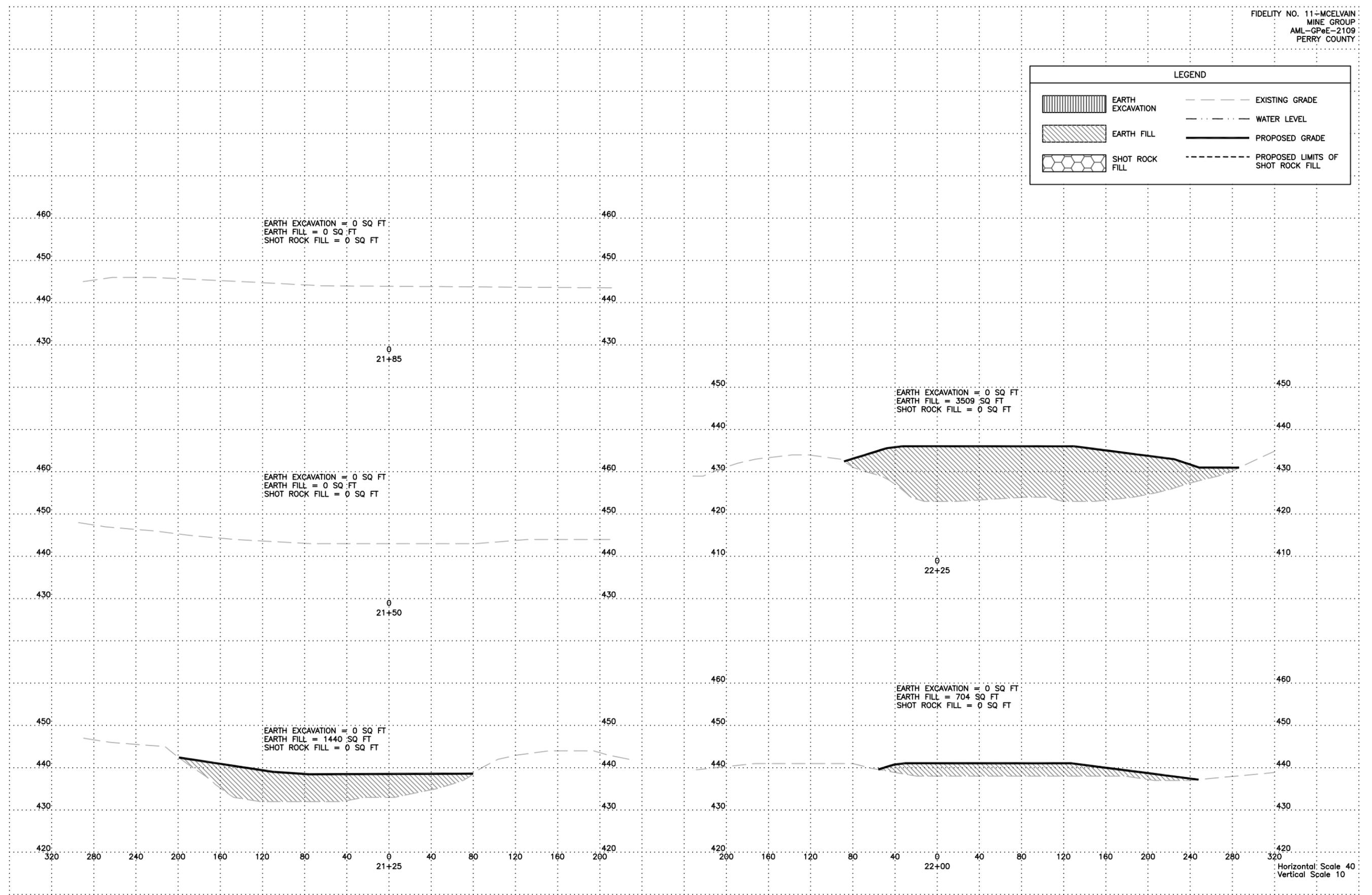
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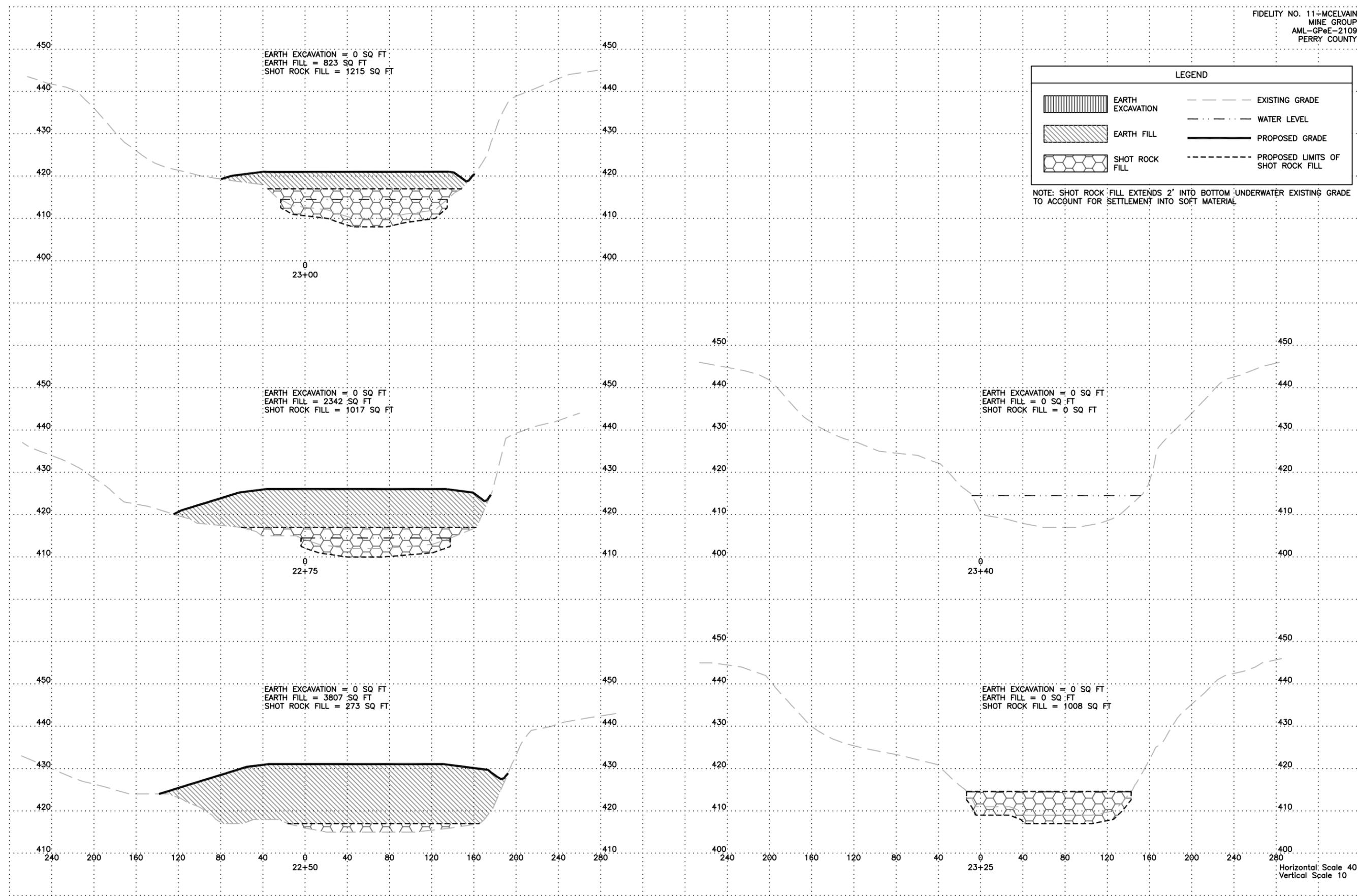
Horizontal Scale 40  
Vertical Scale 10

**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL



Horizontal Scale 40  
 Vertical Scale 10



EARTH EXCAVATION = 0 SQ FT  
 EARTH FILL = 823 SQ FT  
 SHOT ROCK FILL = 1215 SQ FT

0  
 23+00

EARTH EXCAVATION = 0 SQ FT  
 EARTH FILL = 2342 SQ FT  
 SHOT ROCK FILL = 1017 SQ FT

0  
 22+75

EARTH EXCAVATION = 0 SQ FT  
 EARTH FILL = 0 SQ FT  
 SHOT ROCK FILL = 0 SQ FT

0  
 23+40

EARTH EXCAVATION = 0 SQ FT  
 EARTH FILL = 3807 SQ FT  
 SHOT ROCK FILL = 273 SQ FT

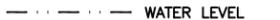
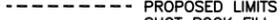
0  
 22+50

EARTH EXCAVATION = 0 SQ FT  
 EARTH FILL = 0 SQ FT  
 SHOT ROCK FILL = 1008 SQ FT

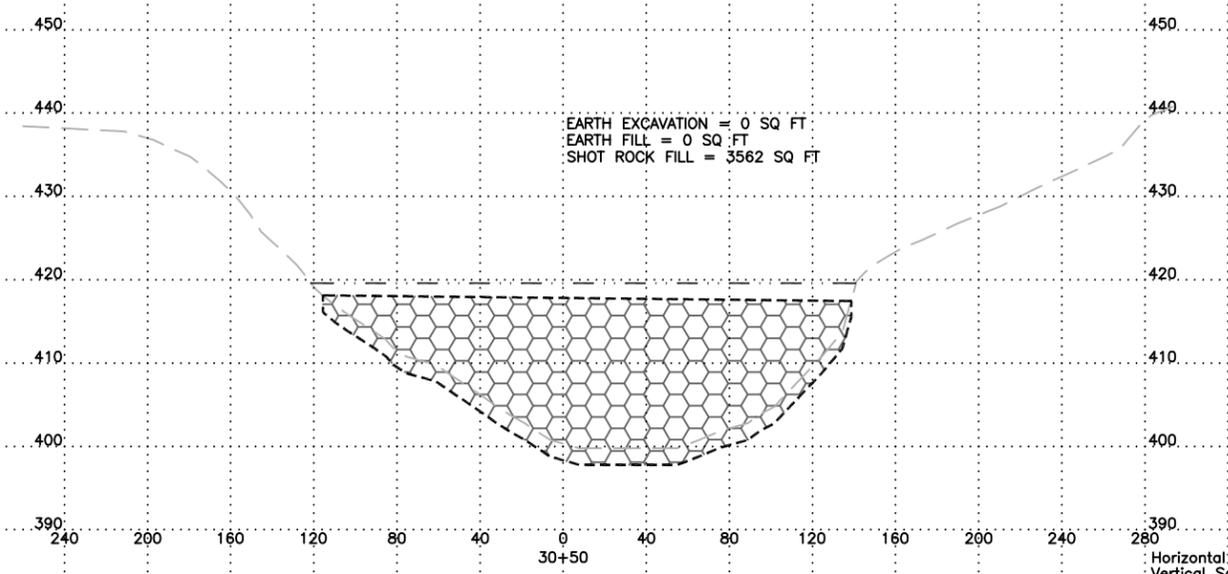
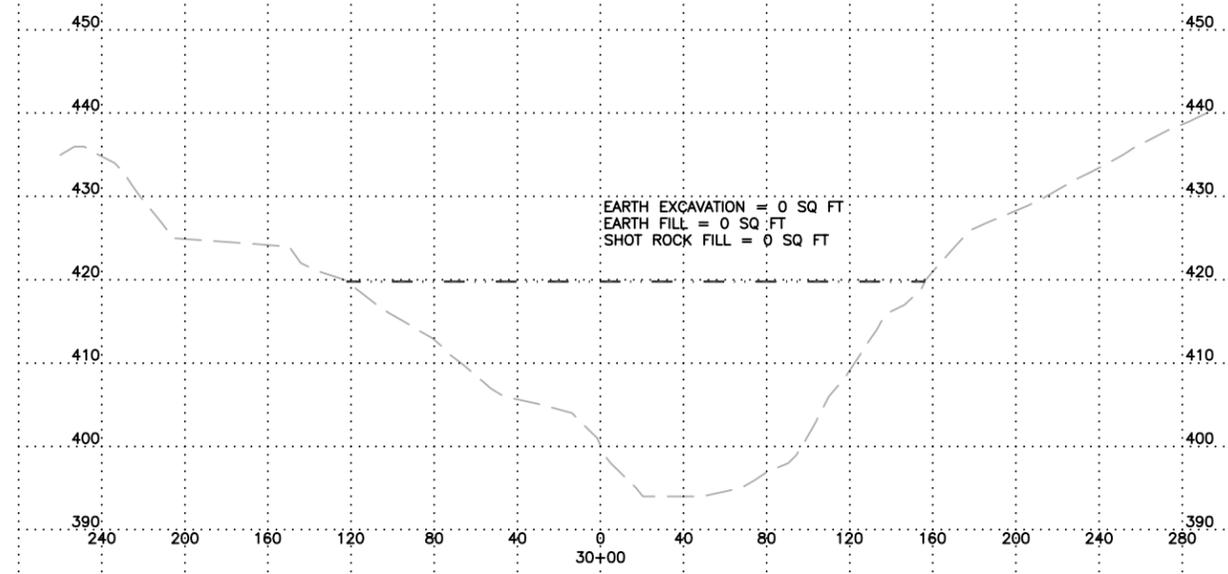
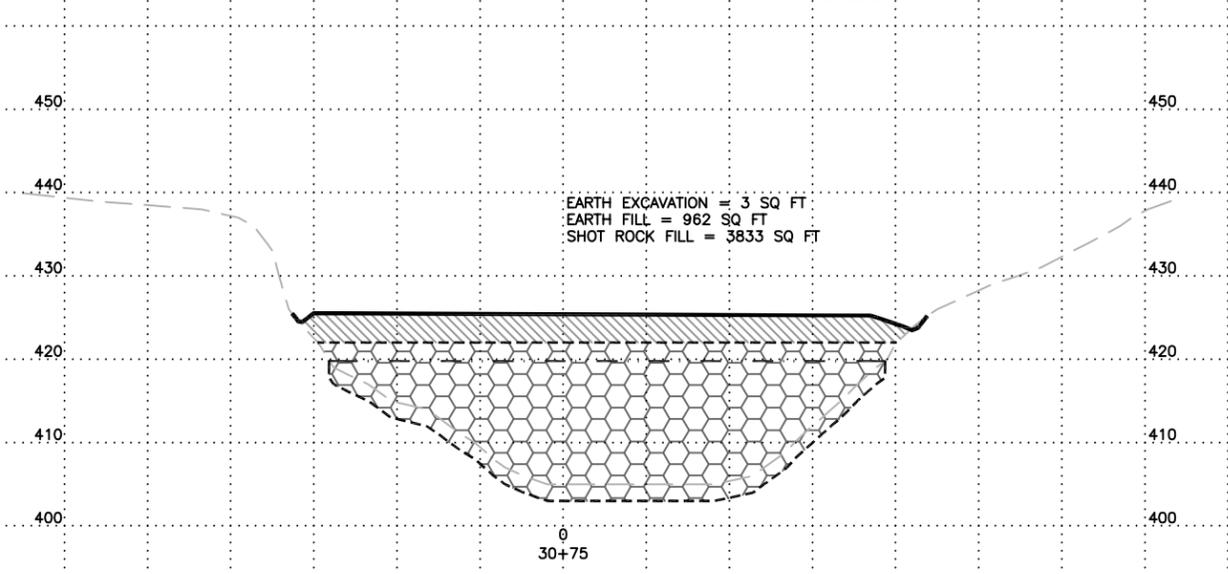
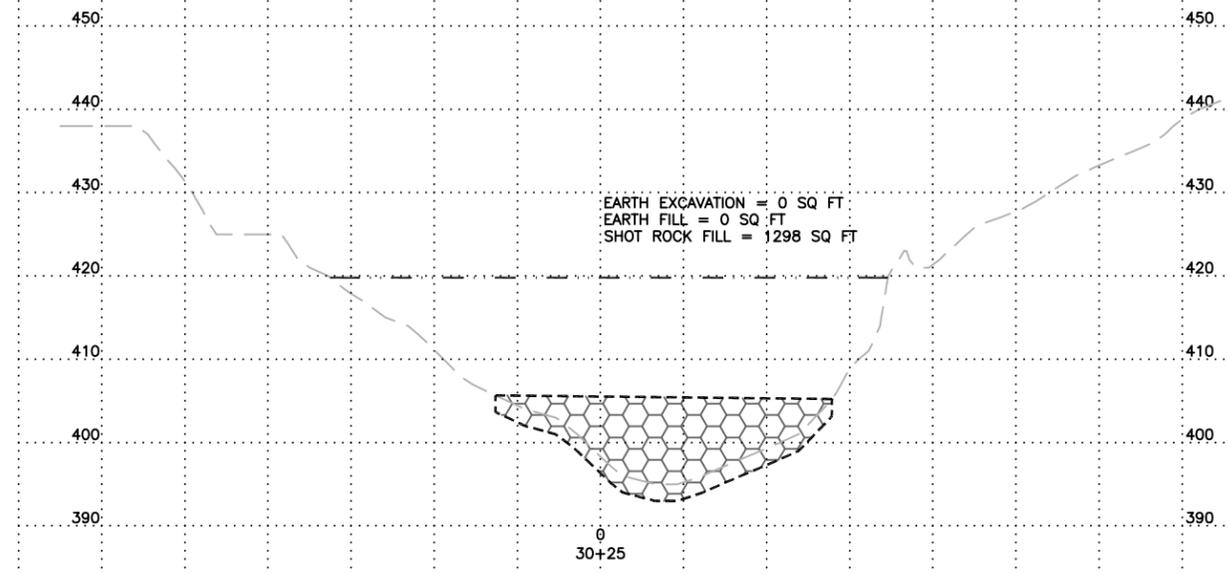
0  
 23+25

Horizontal Scale 40  
 Vertical Scale 10

**LEGEND**

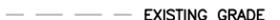
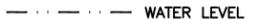
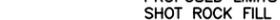
	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

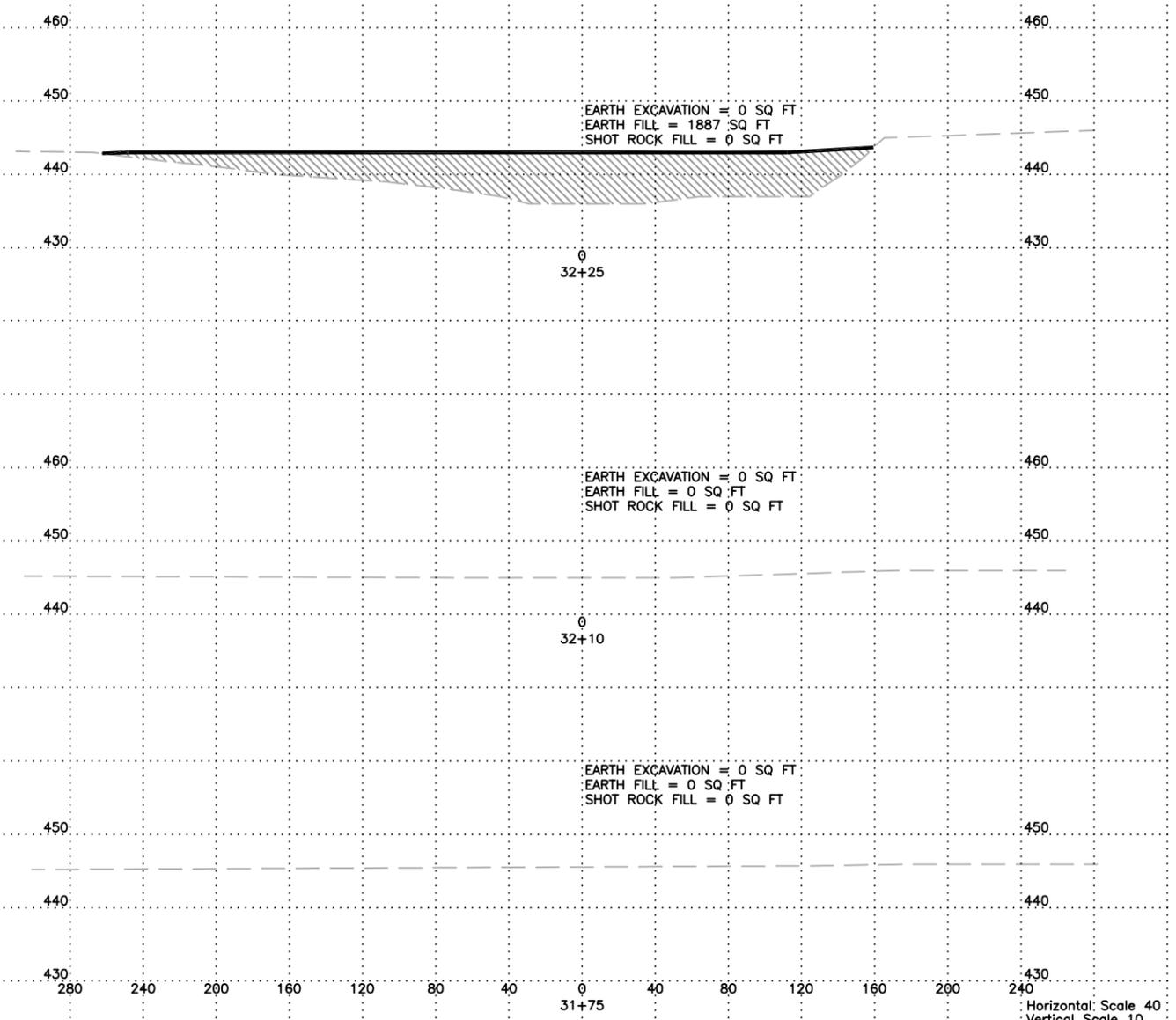
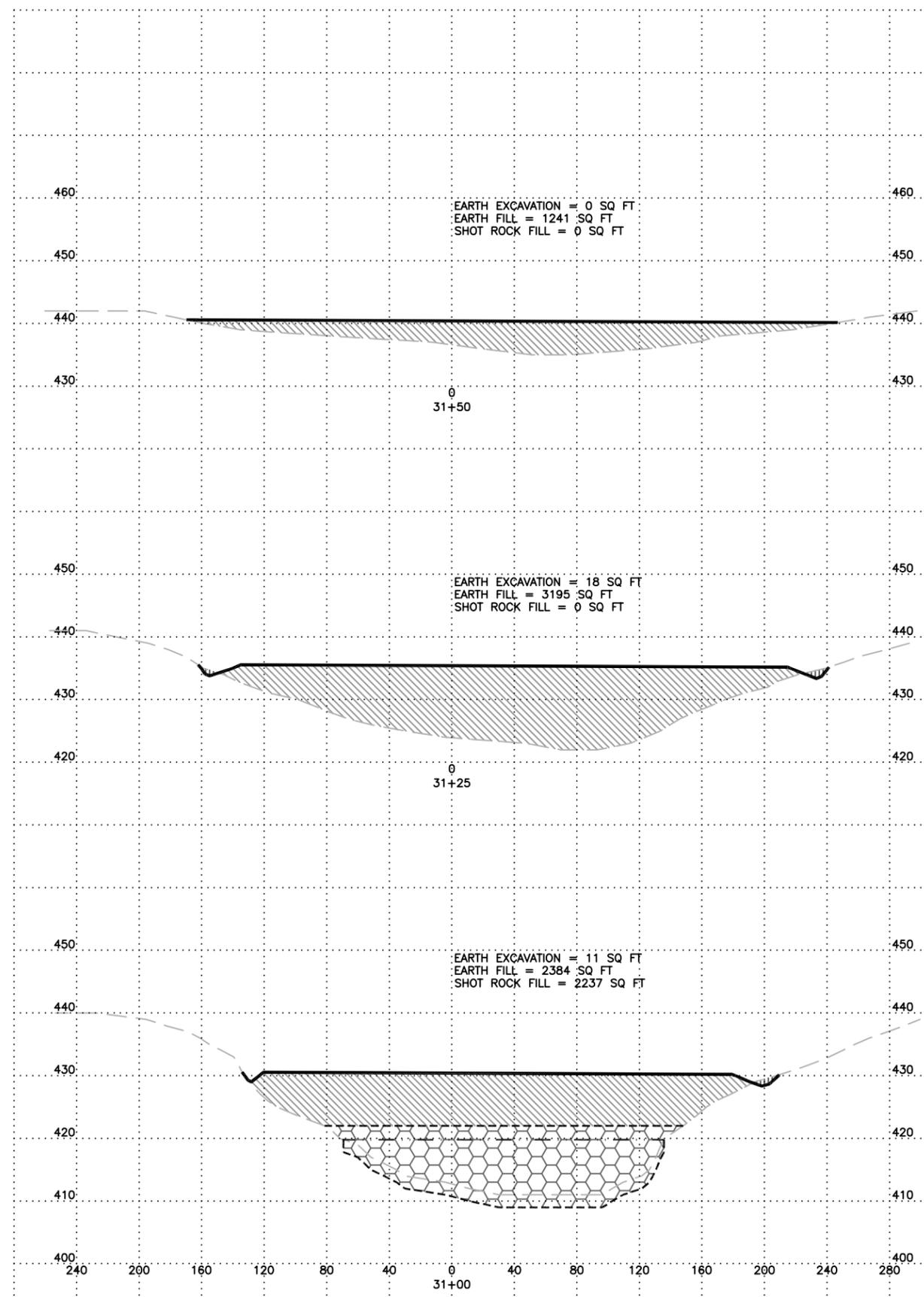


Horizontal Scale 40  
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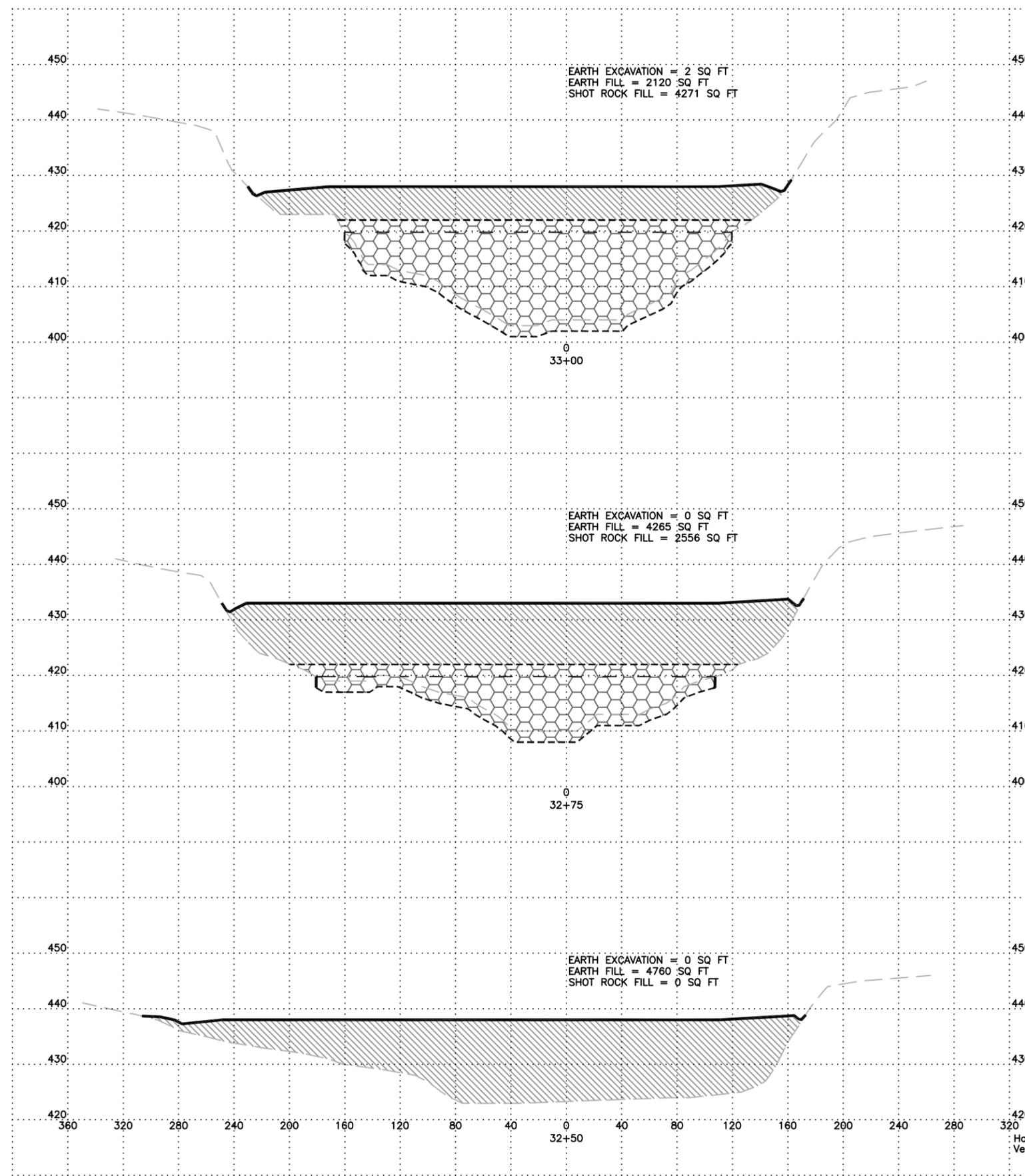
**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

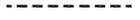
NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL



Horizontal Scale 40  
 Vertical Scale 10



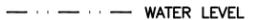
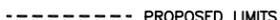
**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

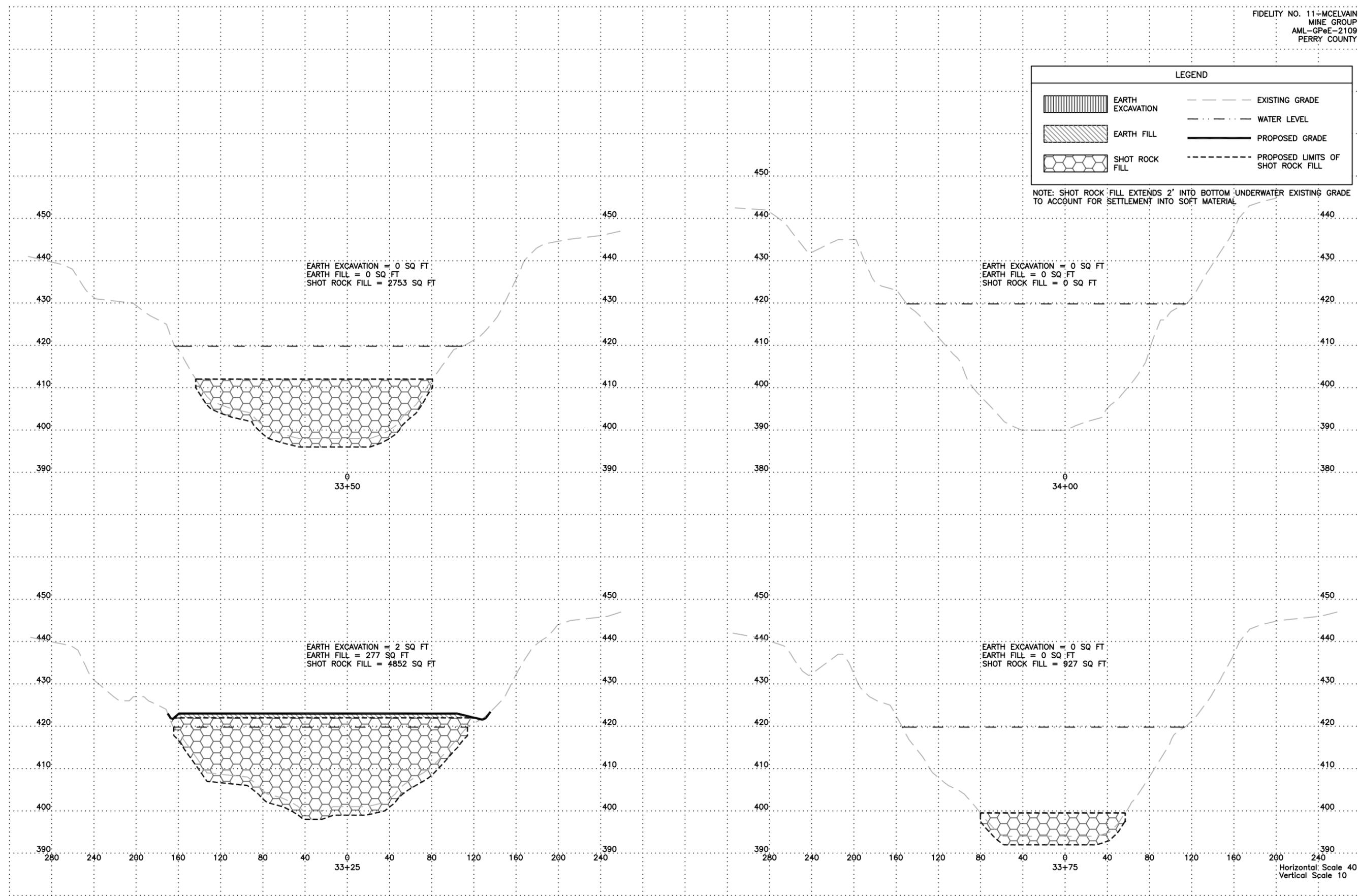
NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

Horizontal Scale 40  
 Vertical Scale 10

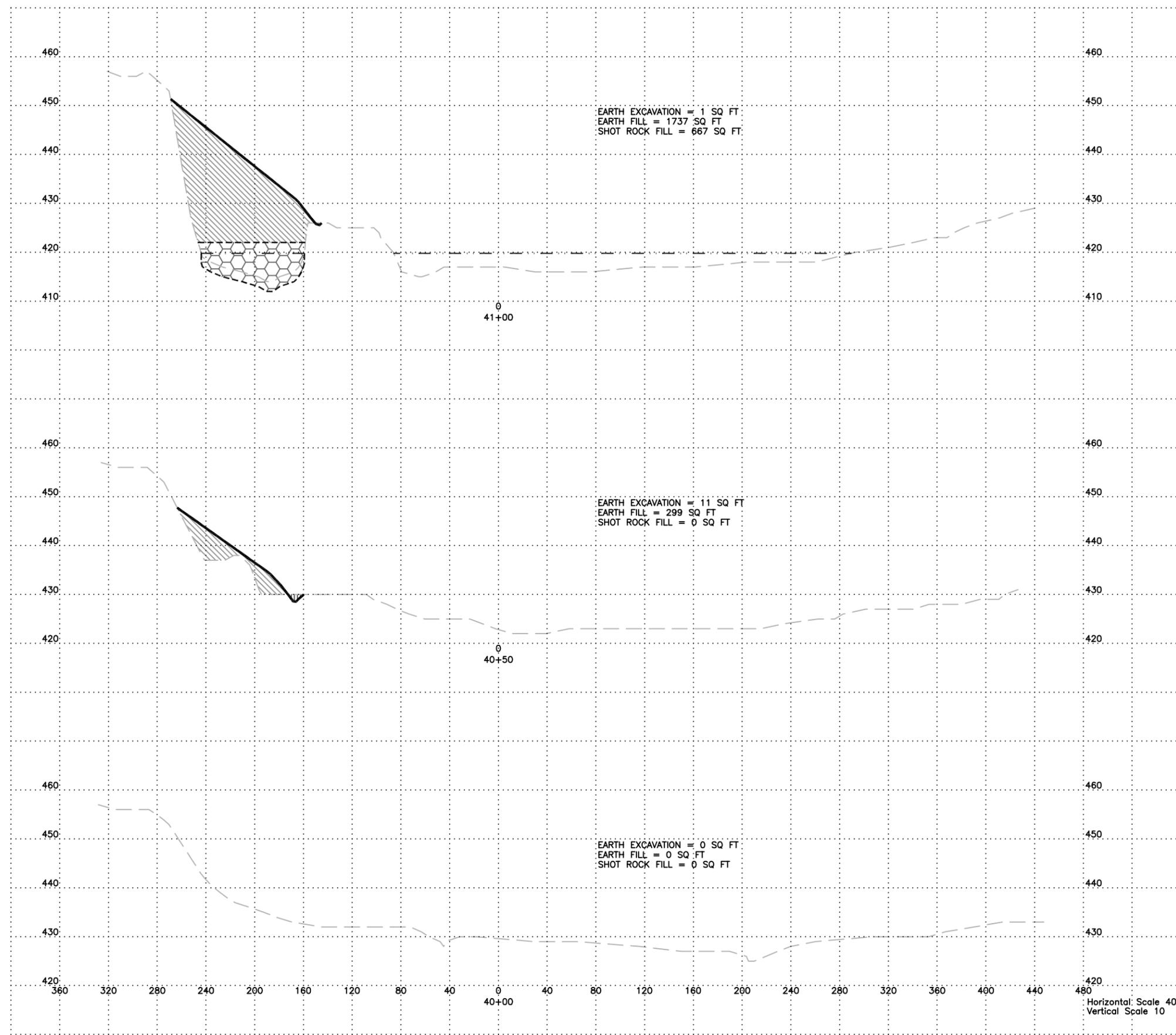
**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

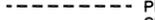
NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL



Horizontal Scale 40  
 Vertical Scale 10



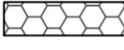
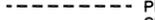
**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

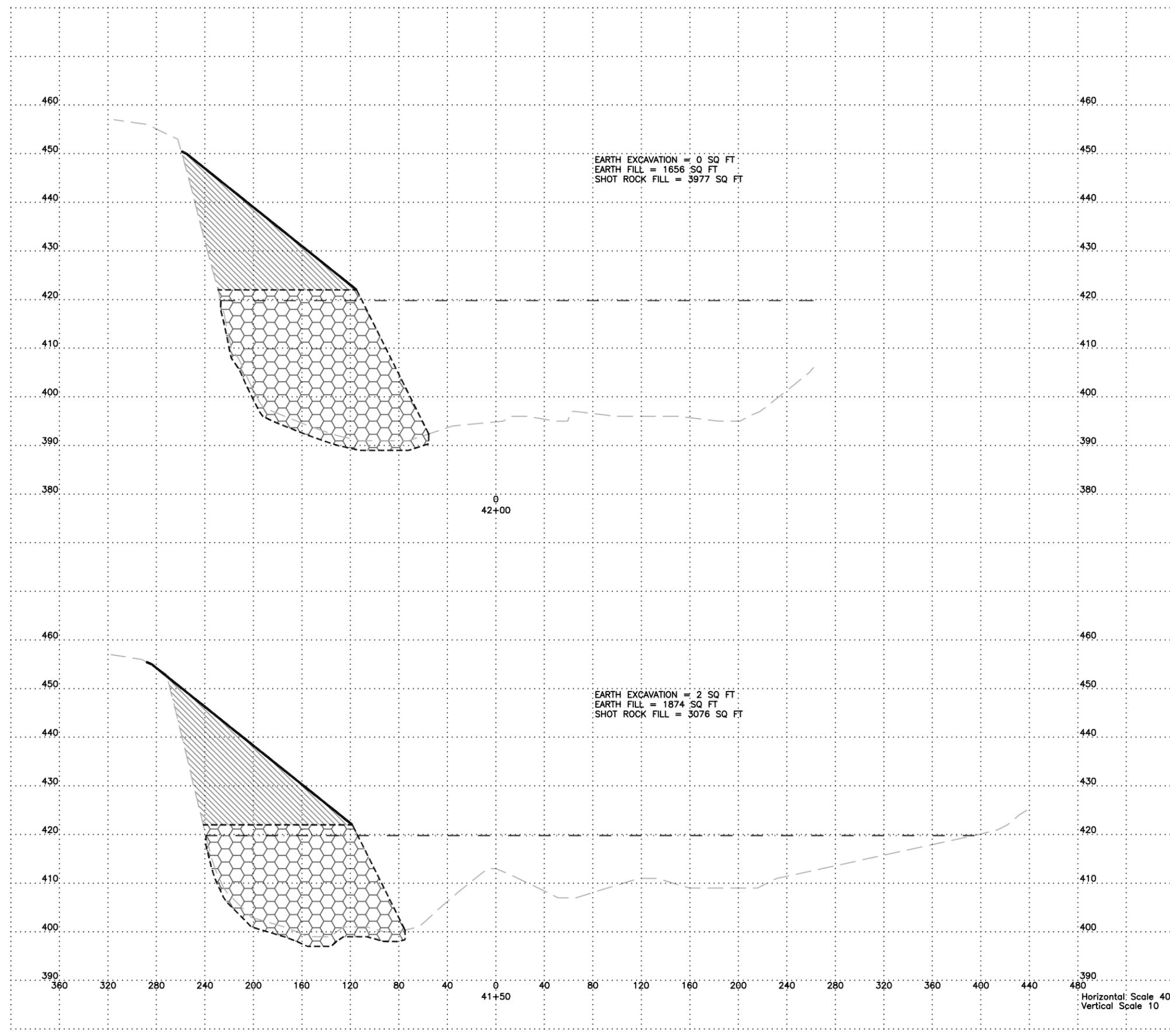
NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

Horizontal Scale 40  
 Vertical Scale 10

**LEGEND**

	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL



EARTH EXCAVATION = 0 SQ FT  
 EARTH FILL = 1656 SQ FT  
 SHOT ROCK FILL = 3977 SQ FT

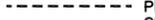
EARTH EXCAVATION = 2 SQ FT  
 EARTH FILL = 1874 SQ FT  
 SHOT ROCK FILL = 3076 SQ FT

0  
 42+00

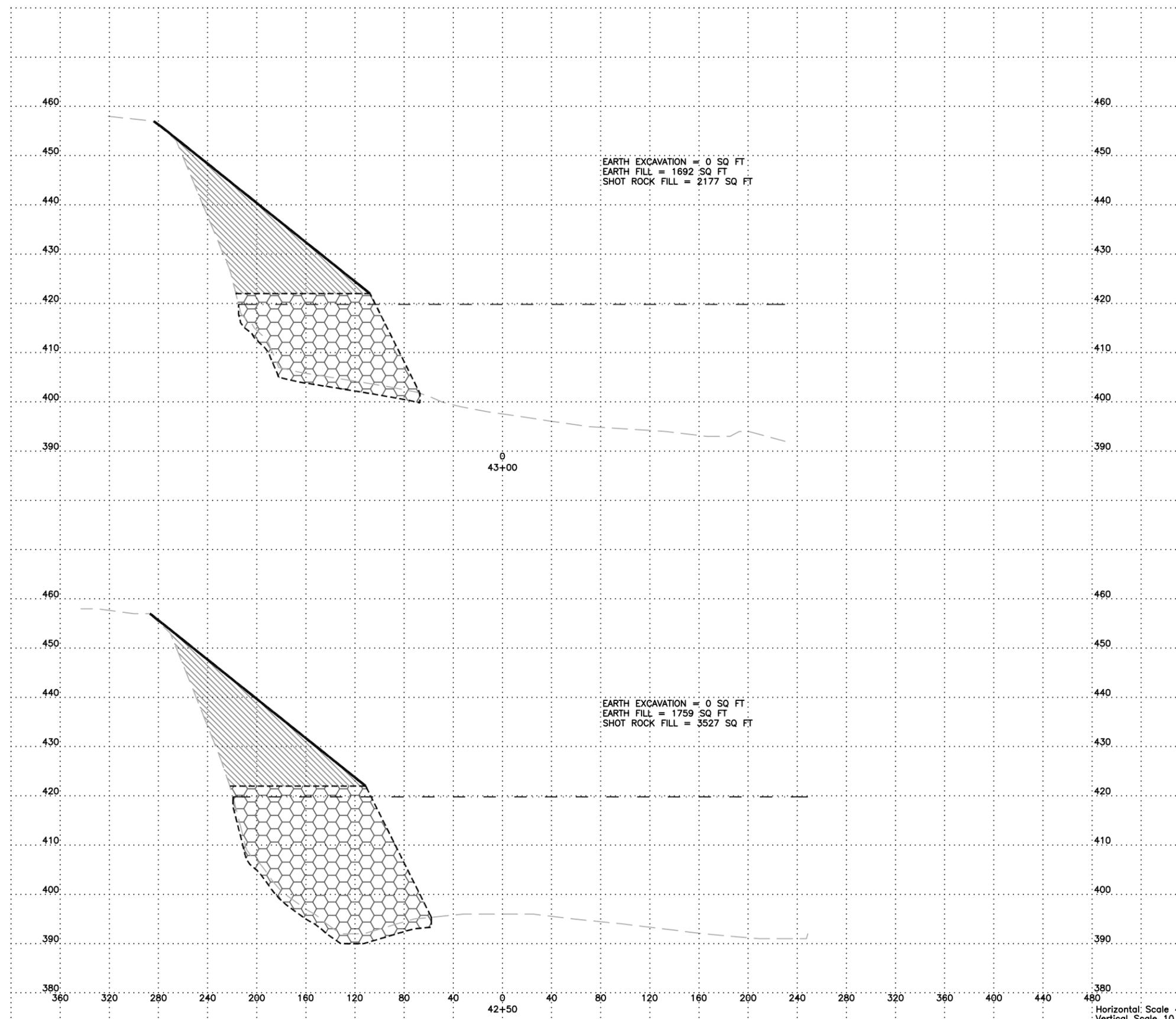
0  
 41+50

Horizontal Scale 40  
 Vertical Scale 10

**LEGEND**

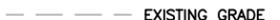
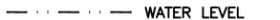
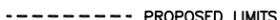
	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

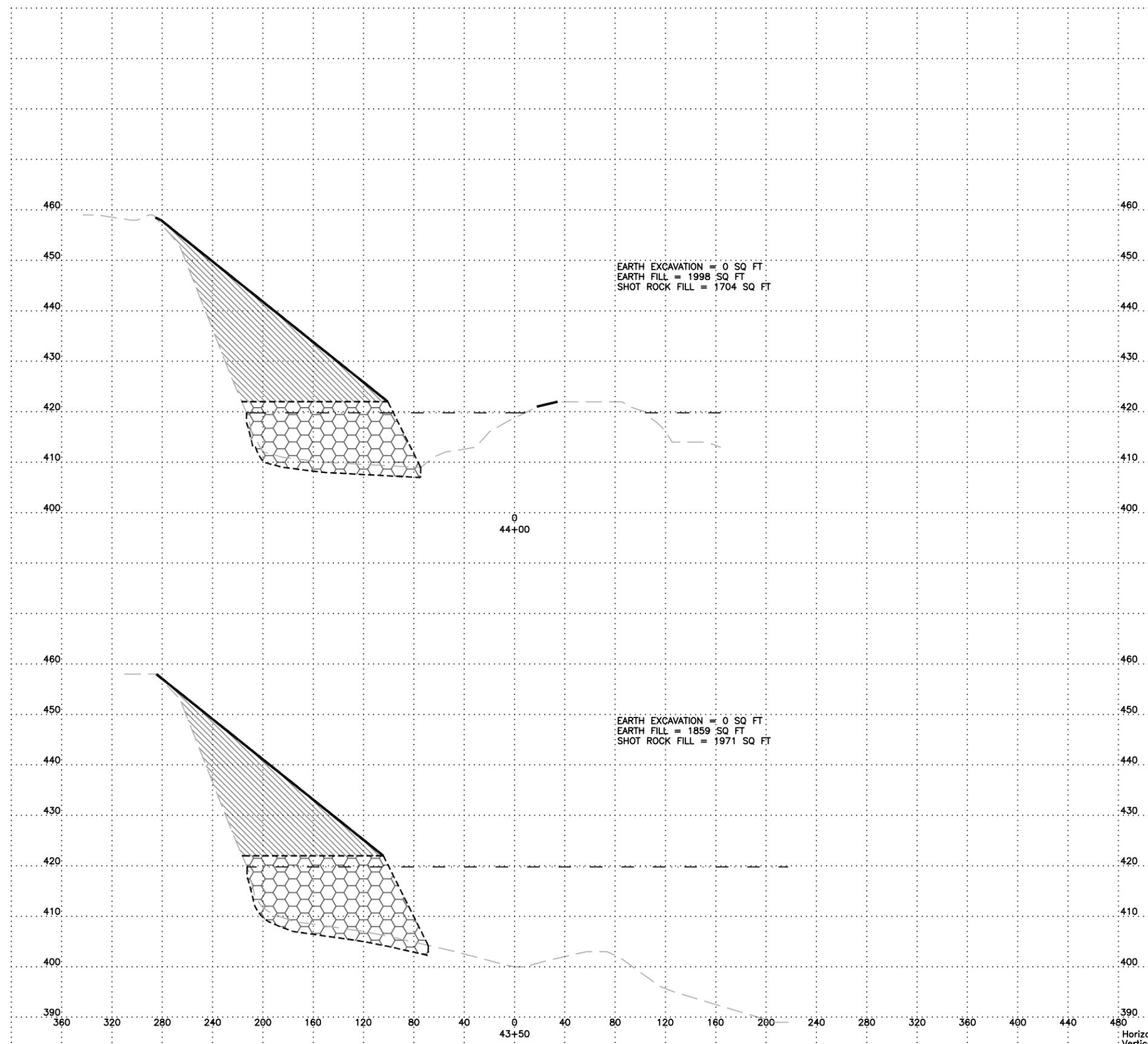


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**LEGEND**

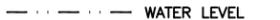
	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

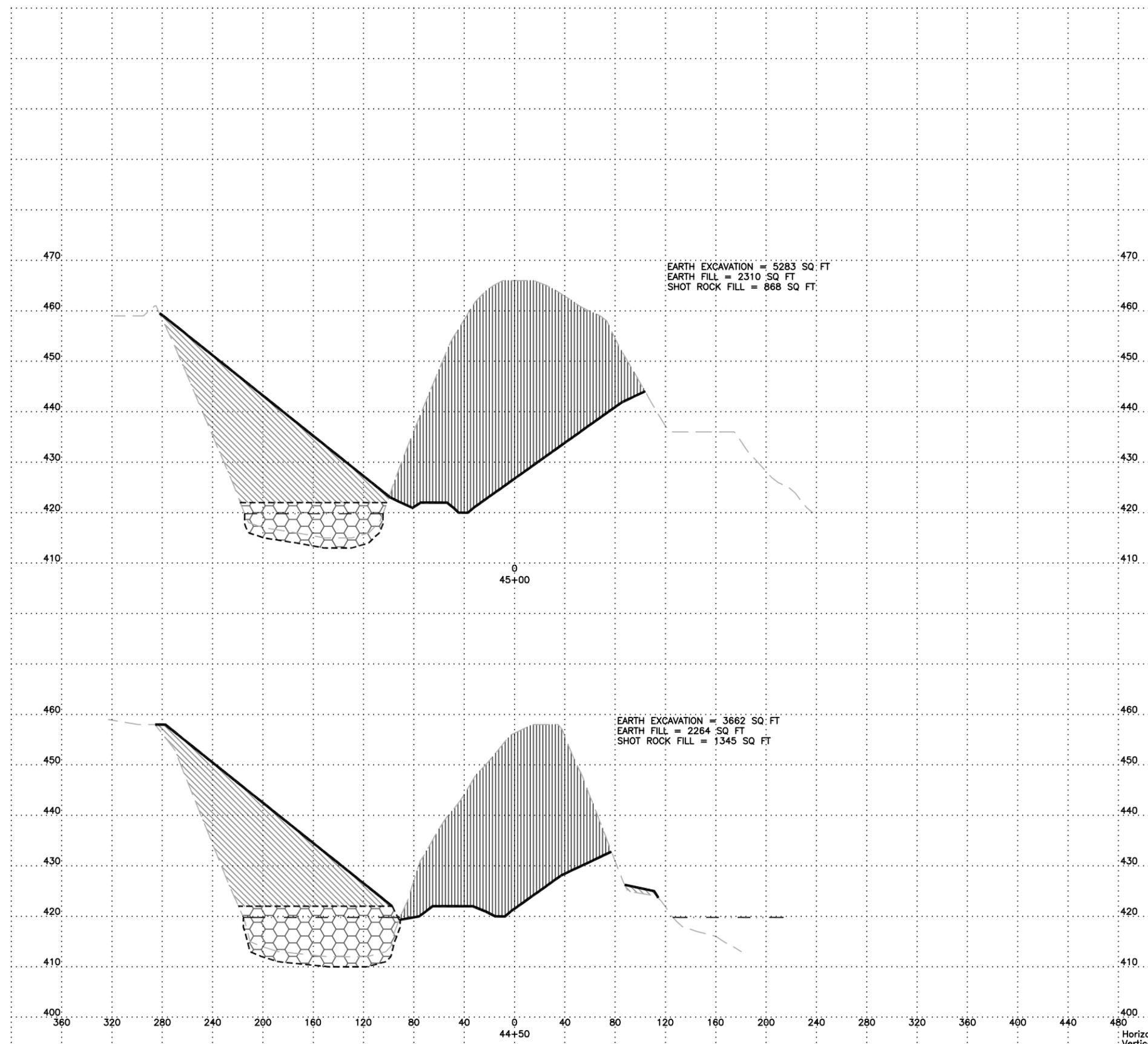


Horizontal Scale 40  
Vertical Scale 10

**LEGEND**

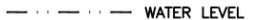
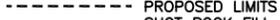
	EARTH EXCAVATION		EXISTING GRADE
	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL

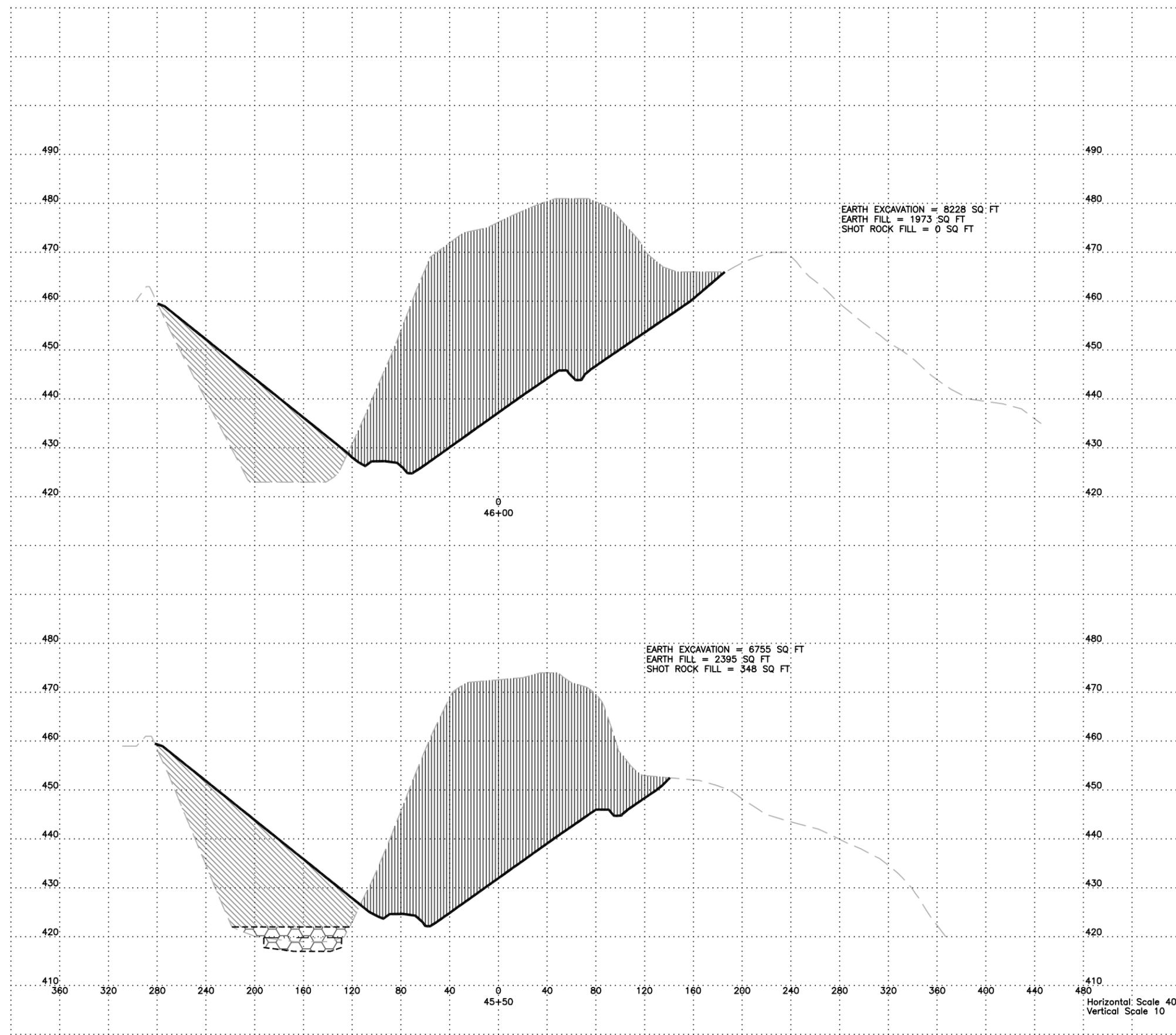


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**LEGEND**

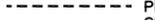
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	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

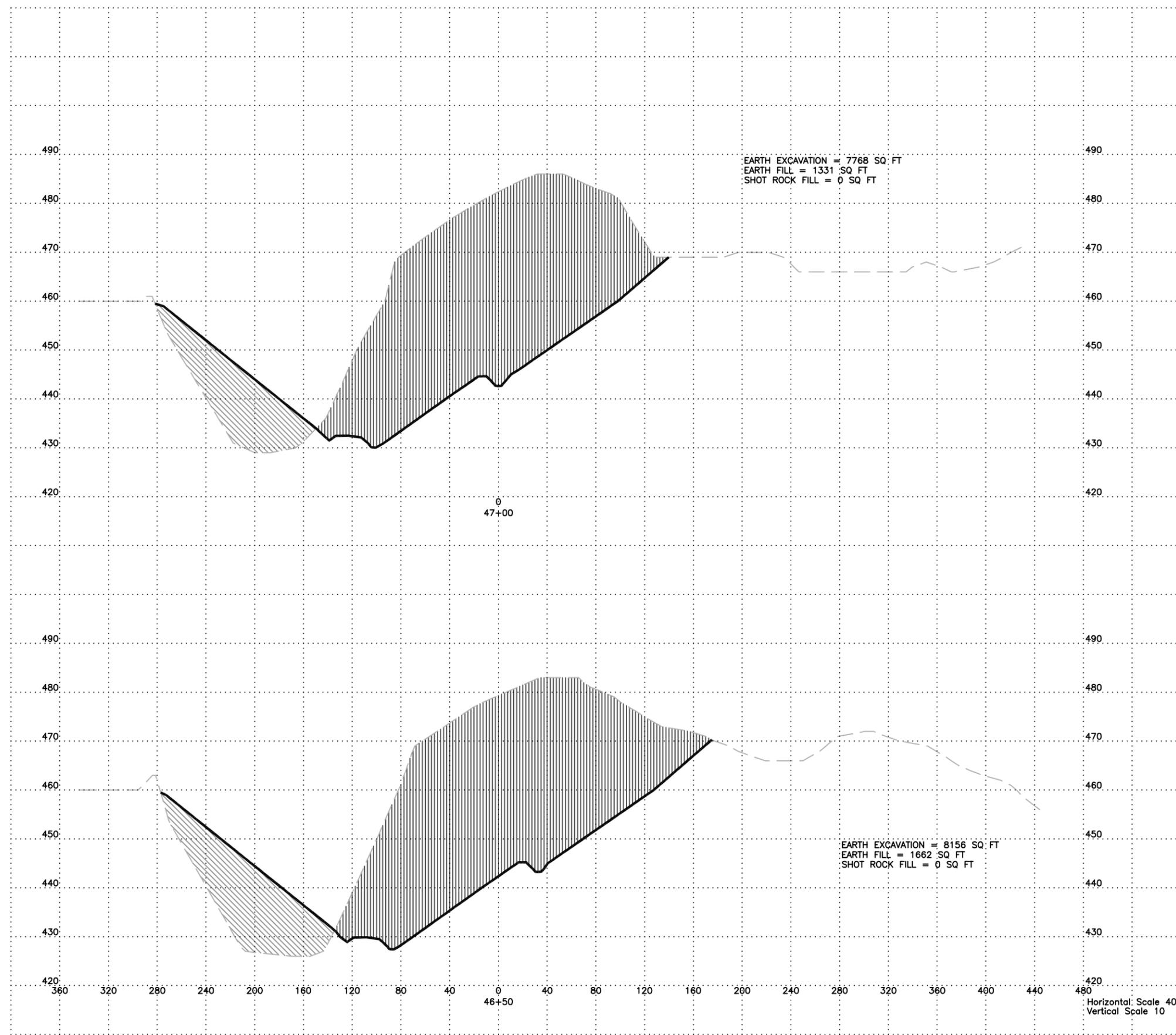
NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL



Horizontal Scale 40  
 Vertical Scale 10

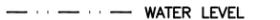
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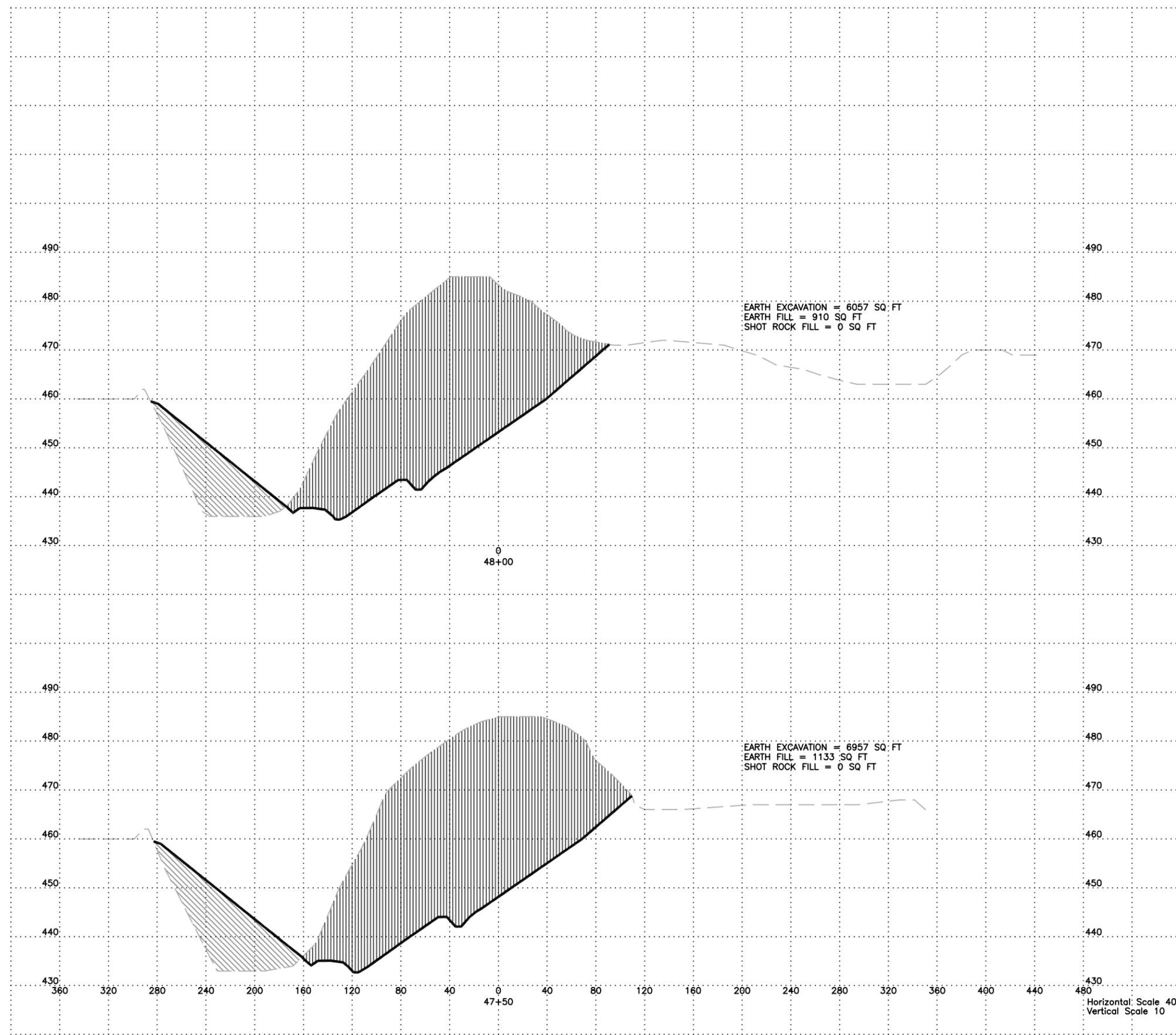
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	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL



Horizontal Scale 40  
 Vertical Scale 10

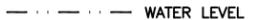
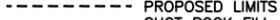
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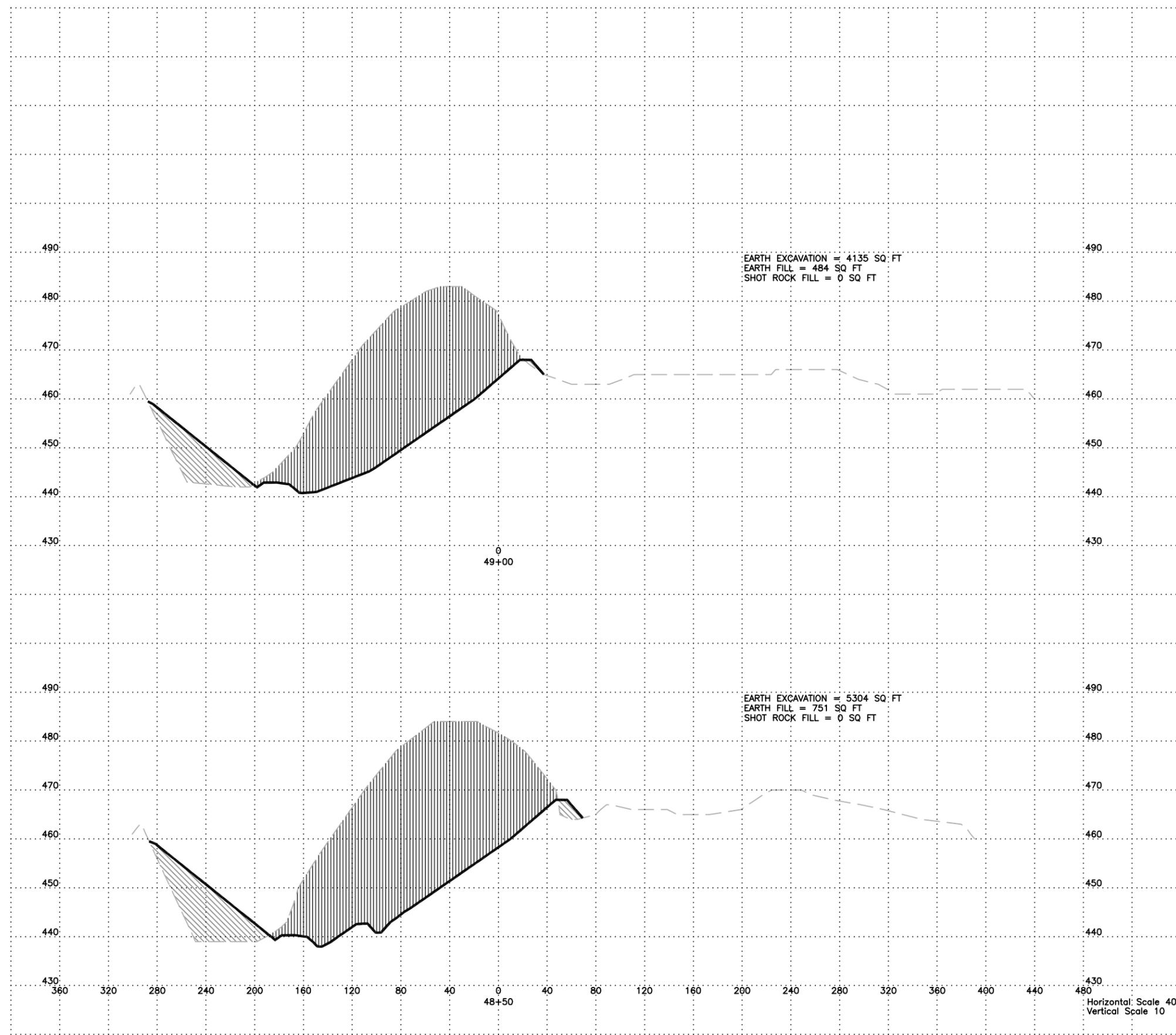
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	EARTH FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
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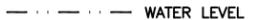
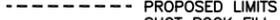
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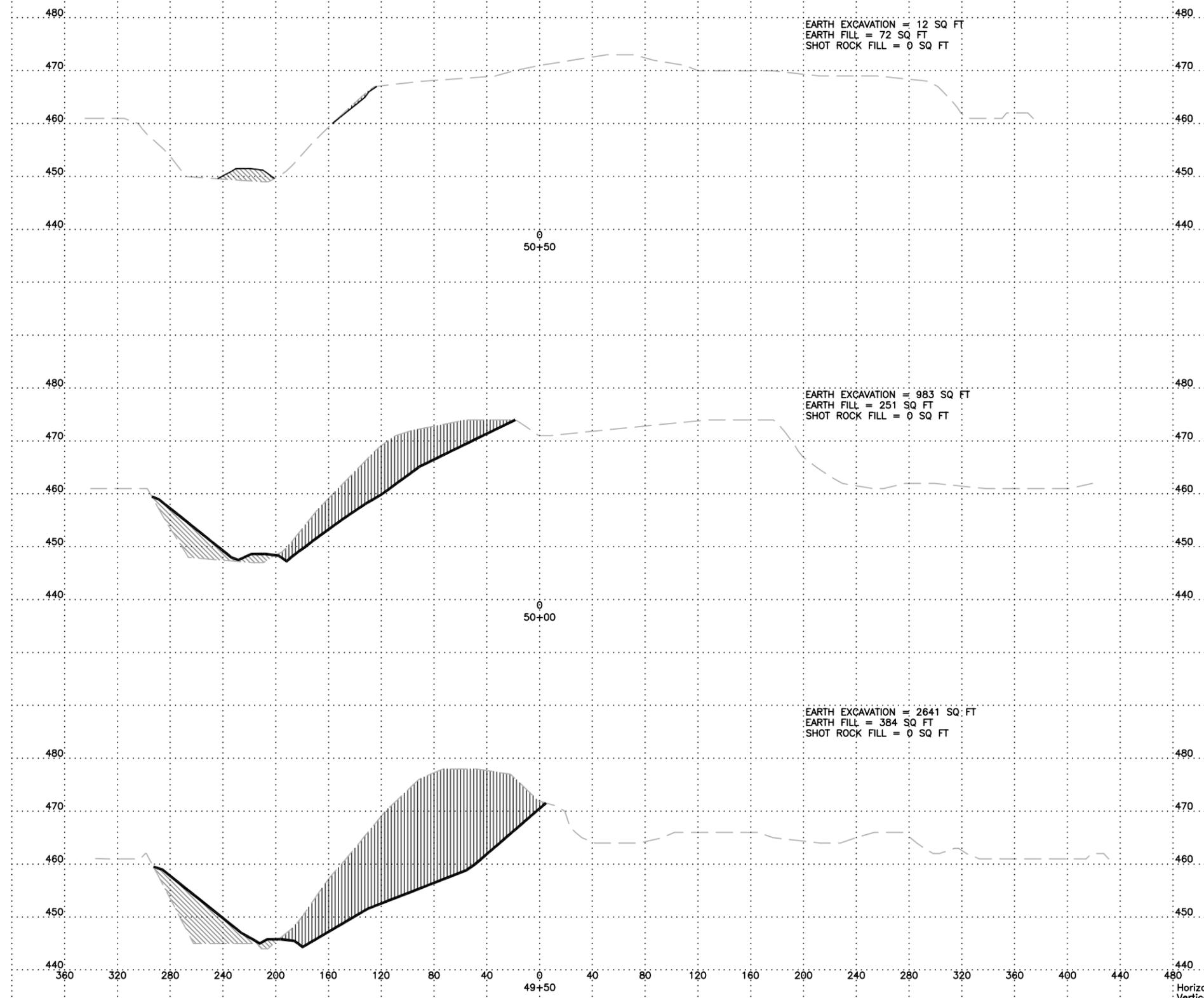
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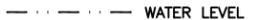
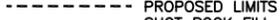
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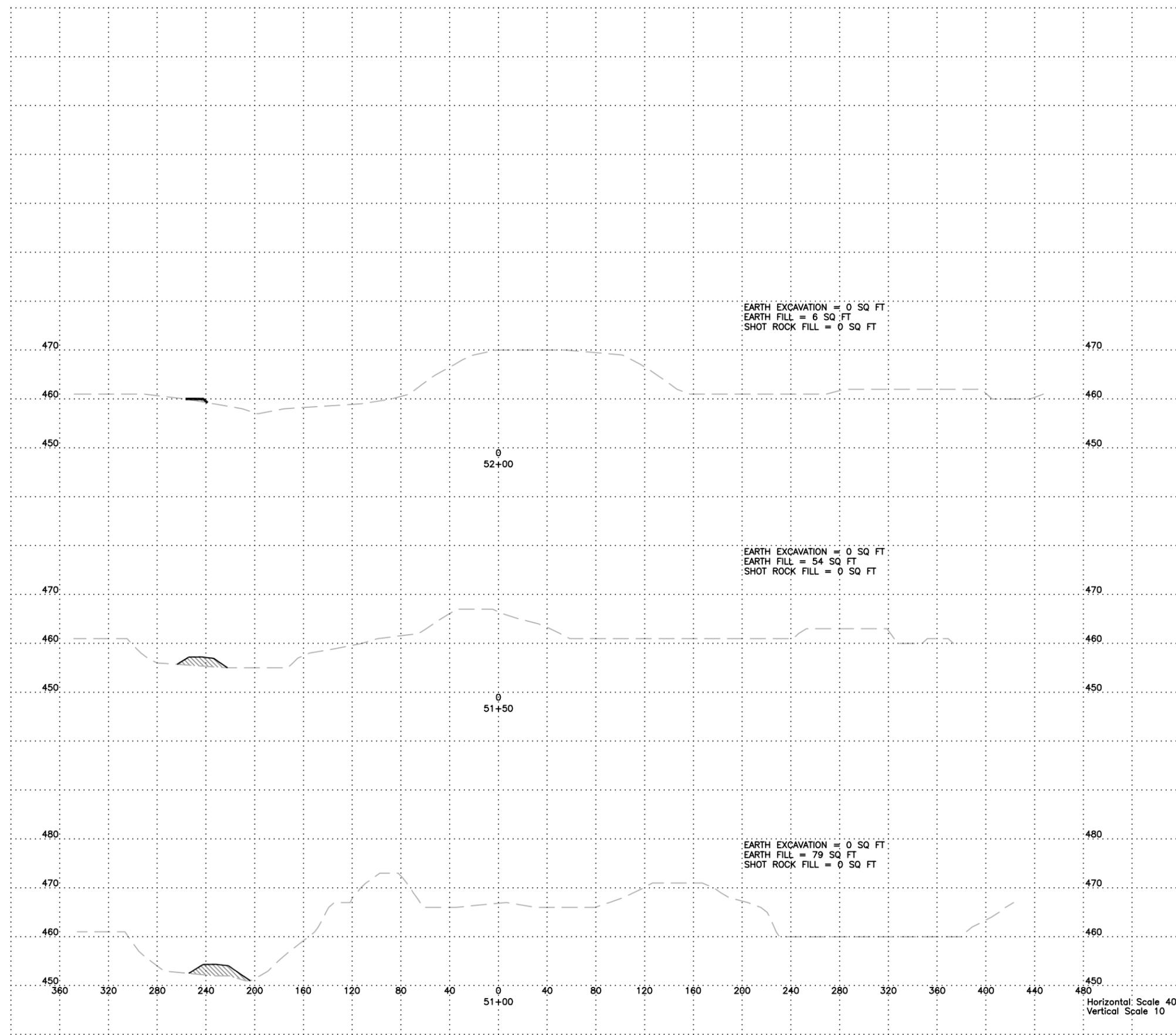
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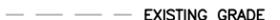
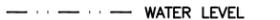
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	EARTH FILL		WATER LEVEL
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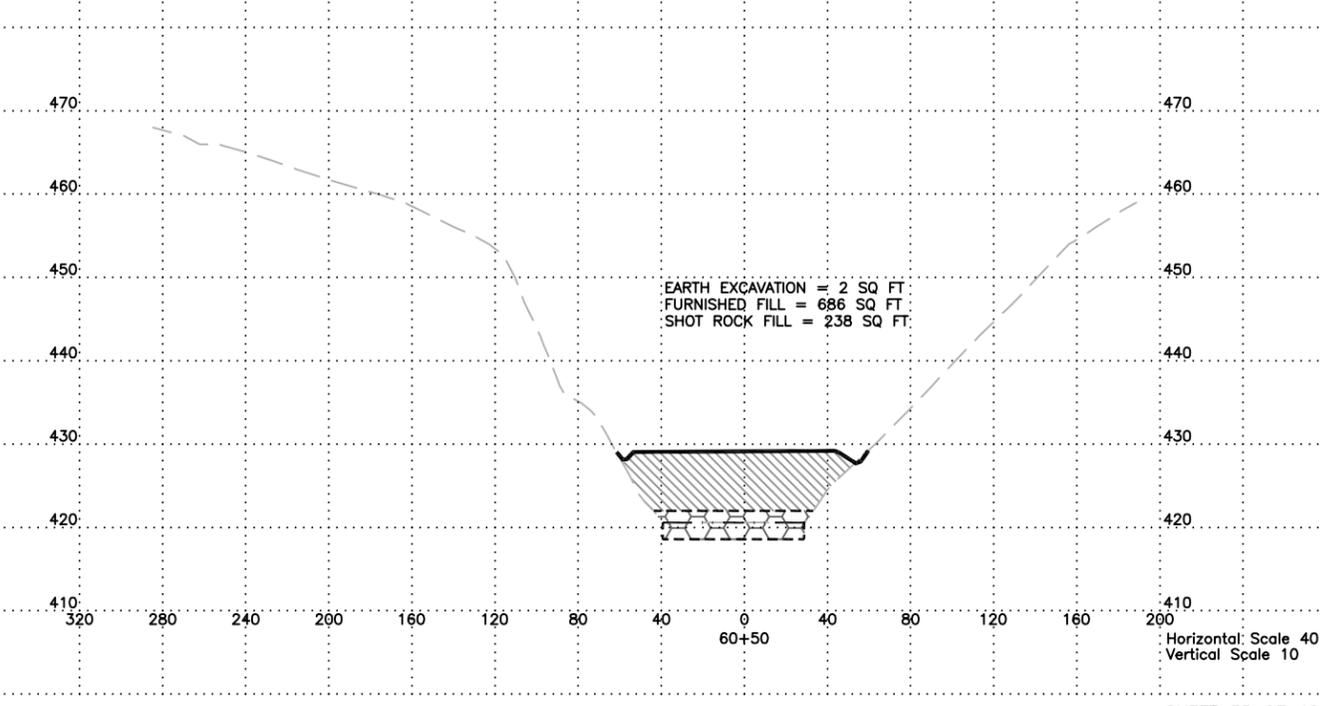
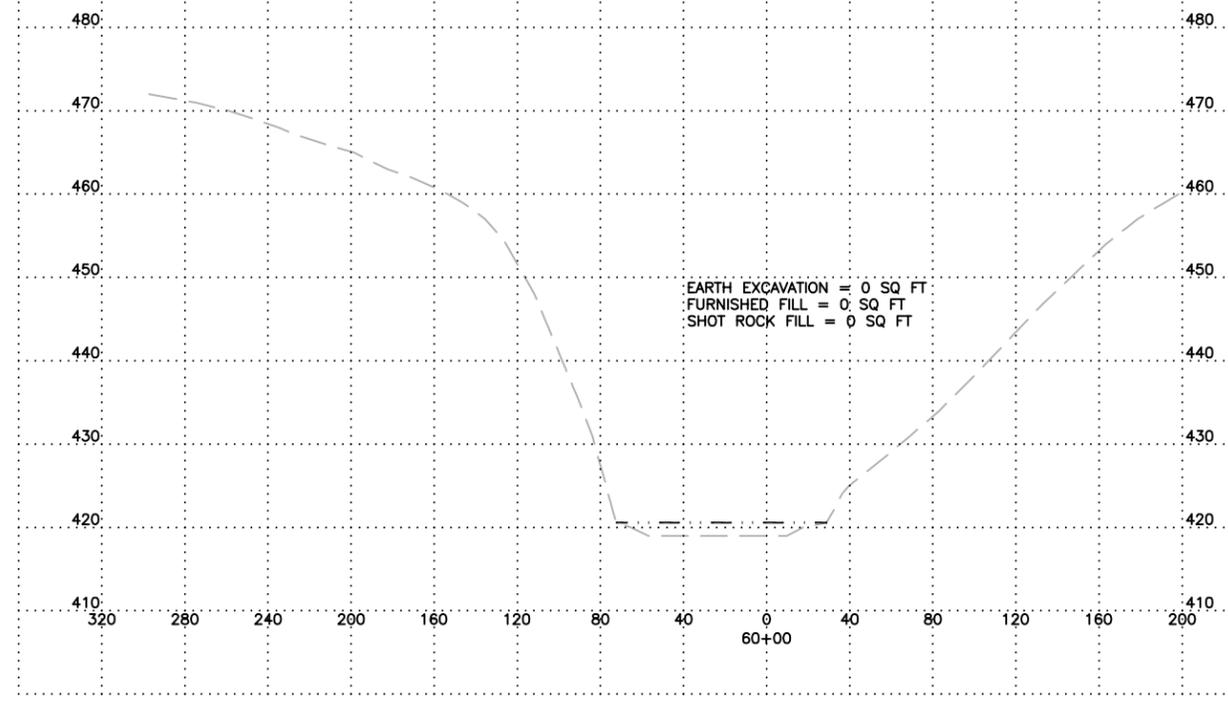
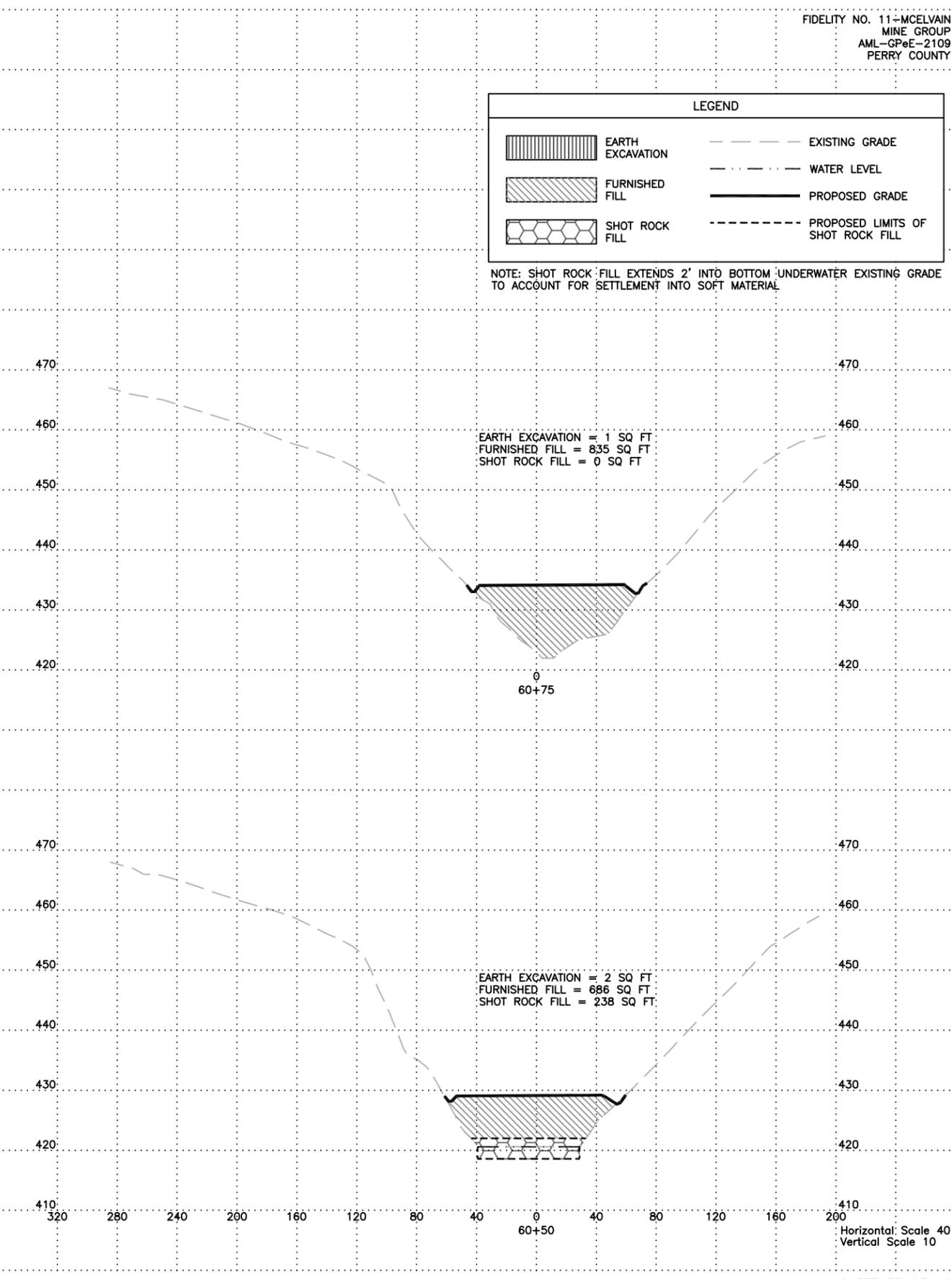
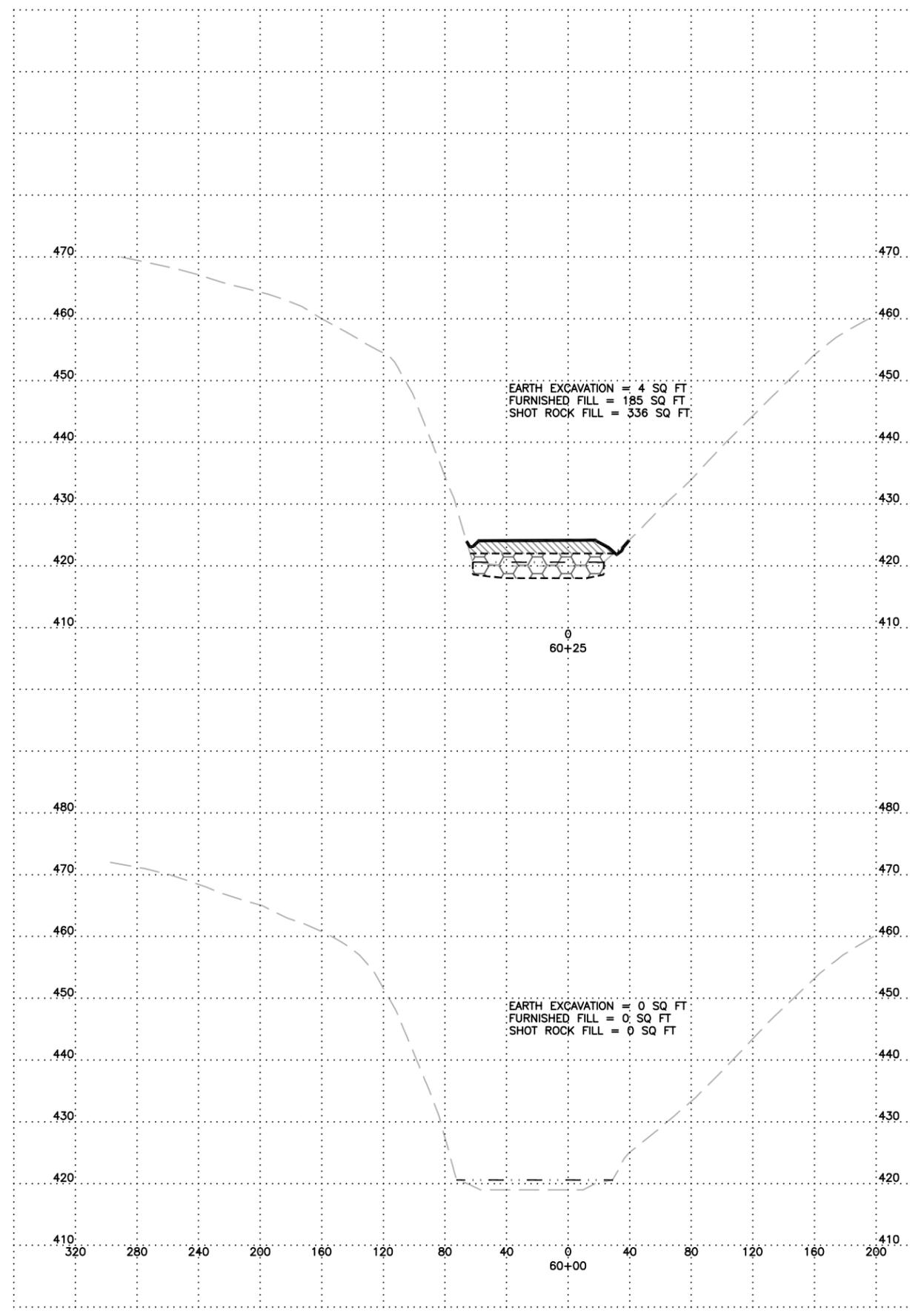


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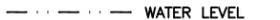
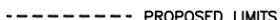
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	FURNISHED FILL		WATER LEVEL
	SHOT ROCK FILL		PROPOSED GRADE
			PROPOSED LIMITS OF SHOT ROCK FILL

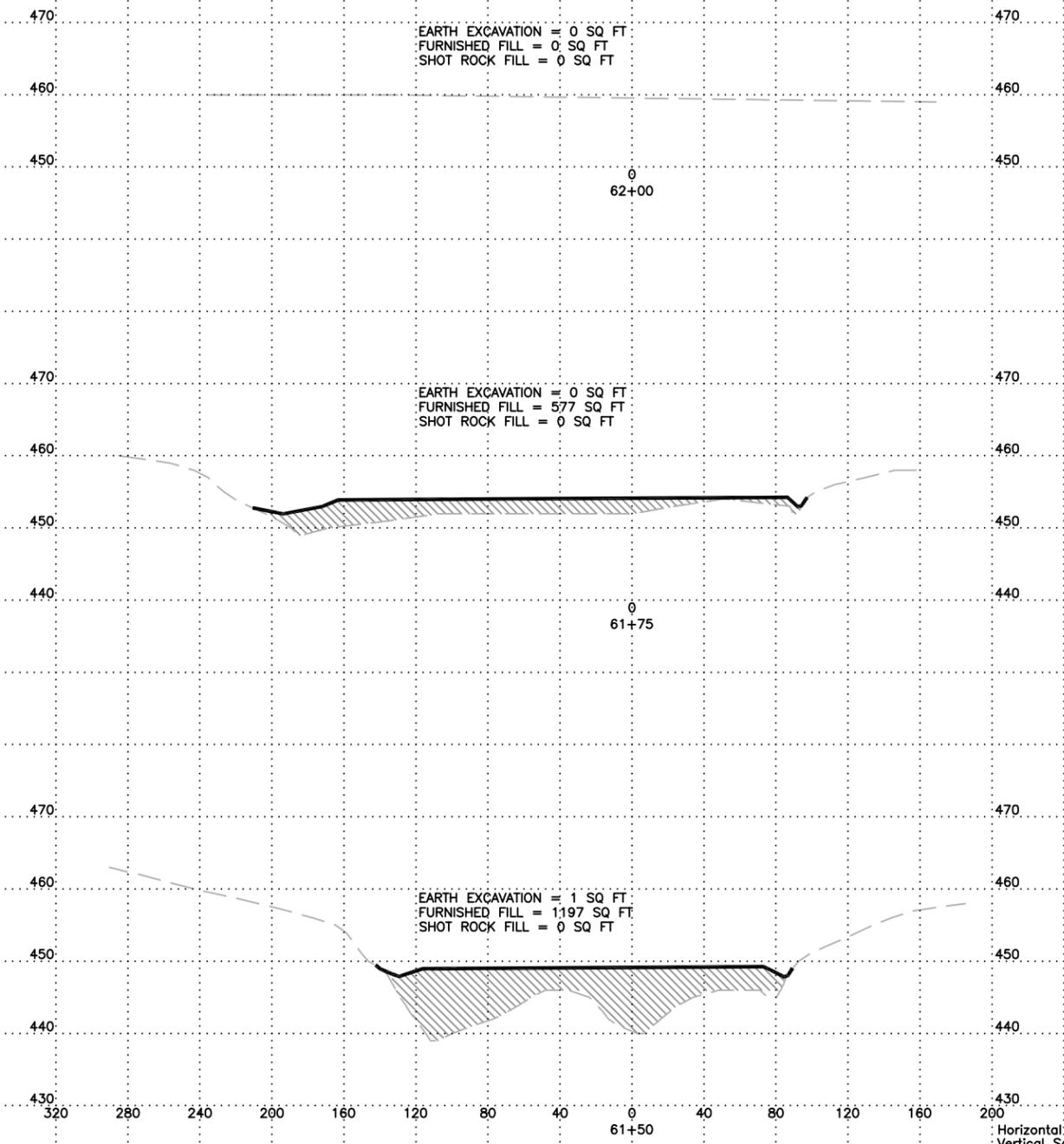
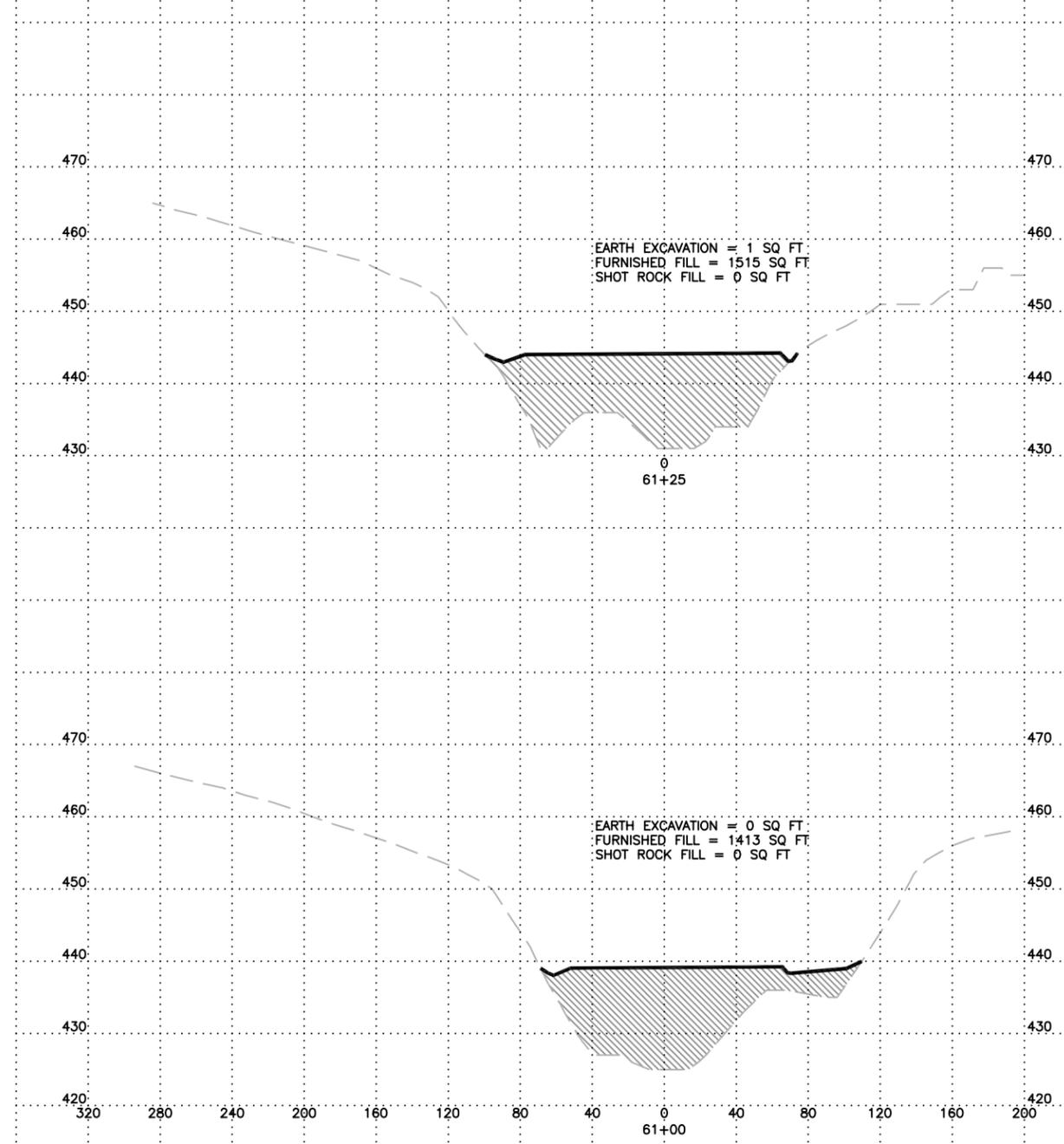
NOTE: SHOT ROCK FILL EXTENDS 2' INTO BOTTOM UNDERWATER EXISTING GRADE TO ACCOUNT FOR SETTLEMENT INTO SOFT MATERIAL



Horizontal Scale 40  
 Vertical Scale 10

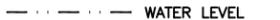
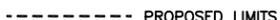
**LEGEND**

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	FURNISHED FILL		WATER LEVEL
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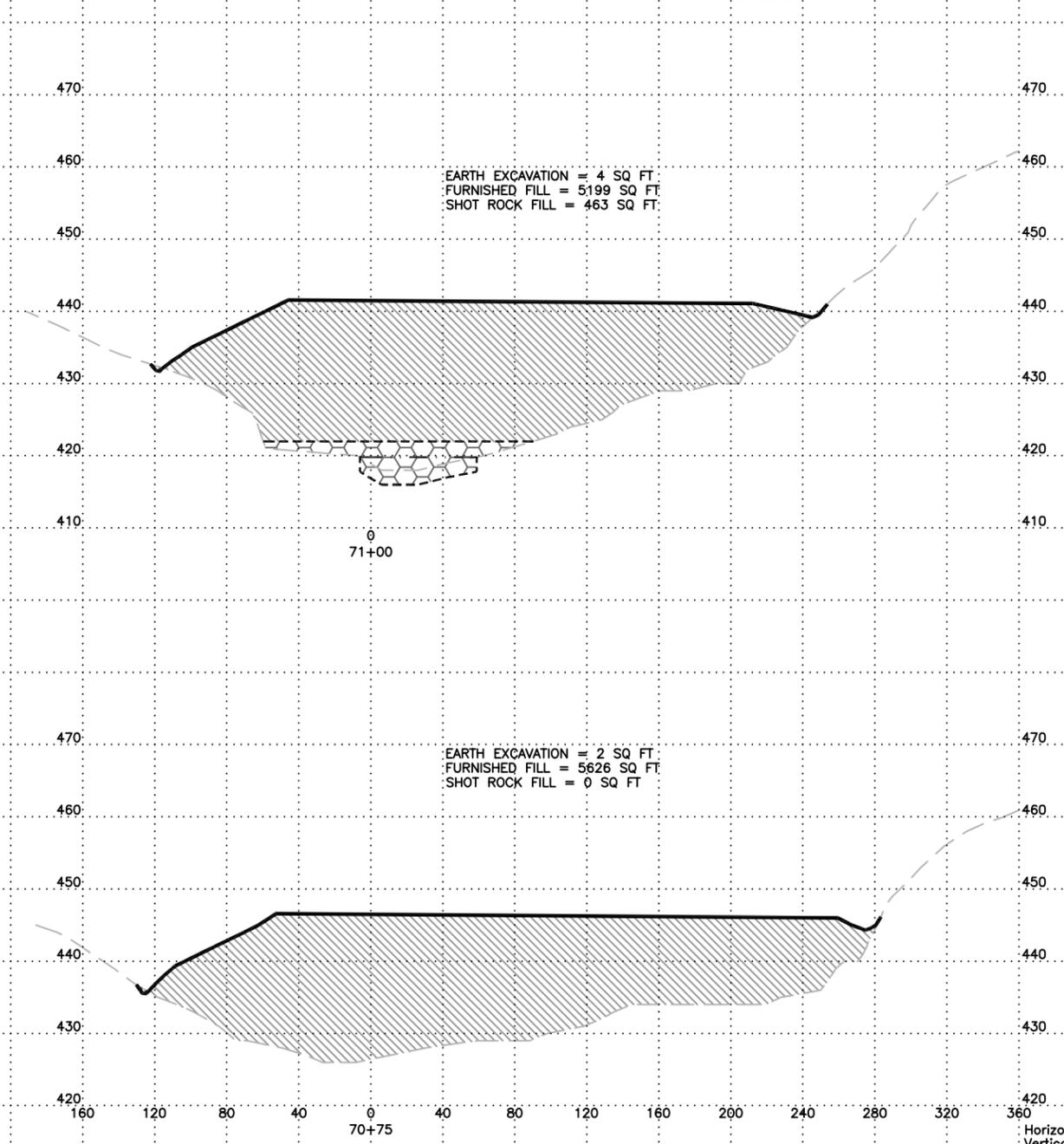
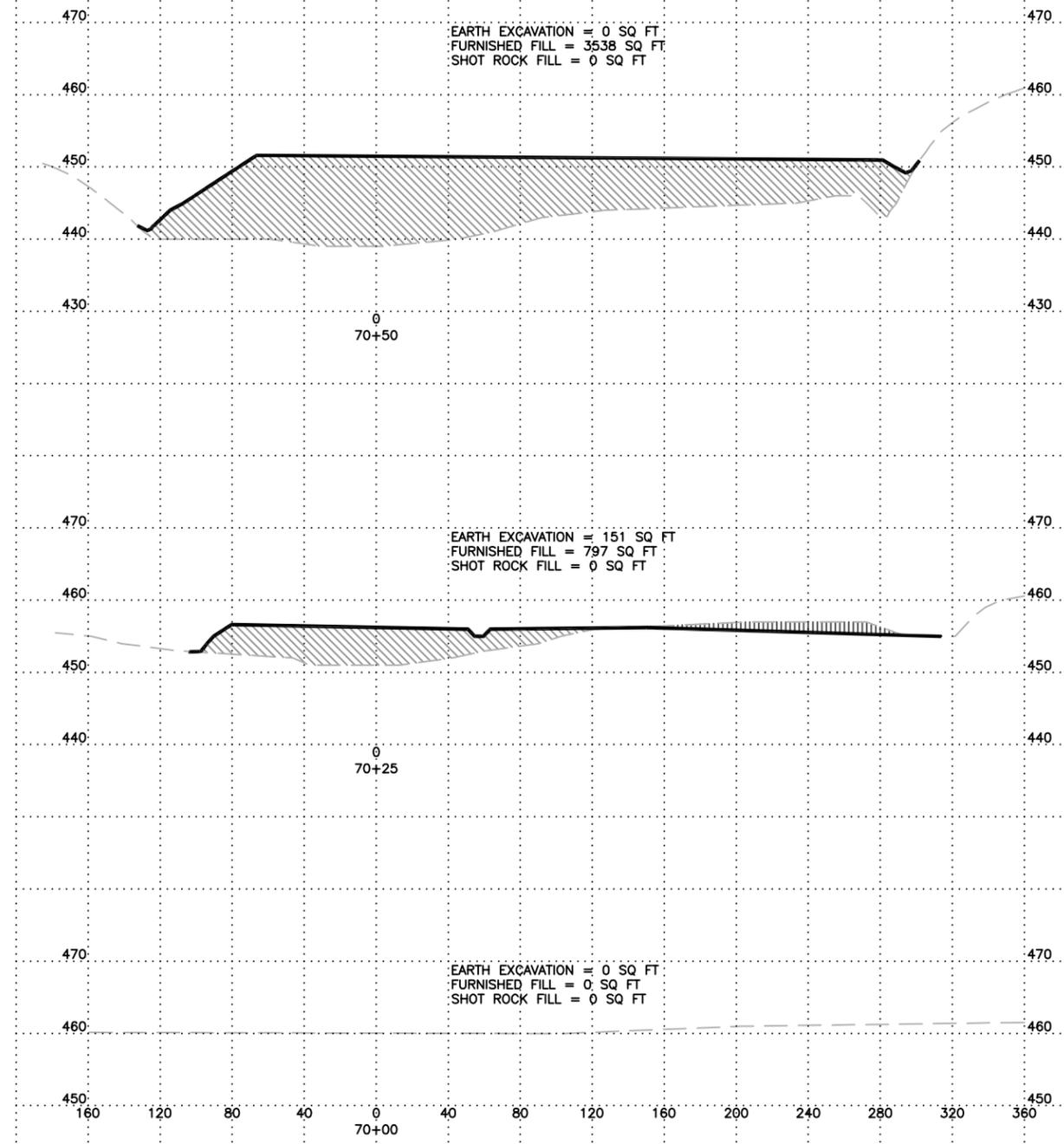


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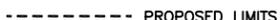
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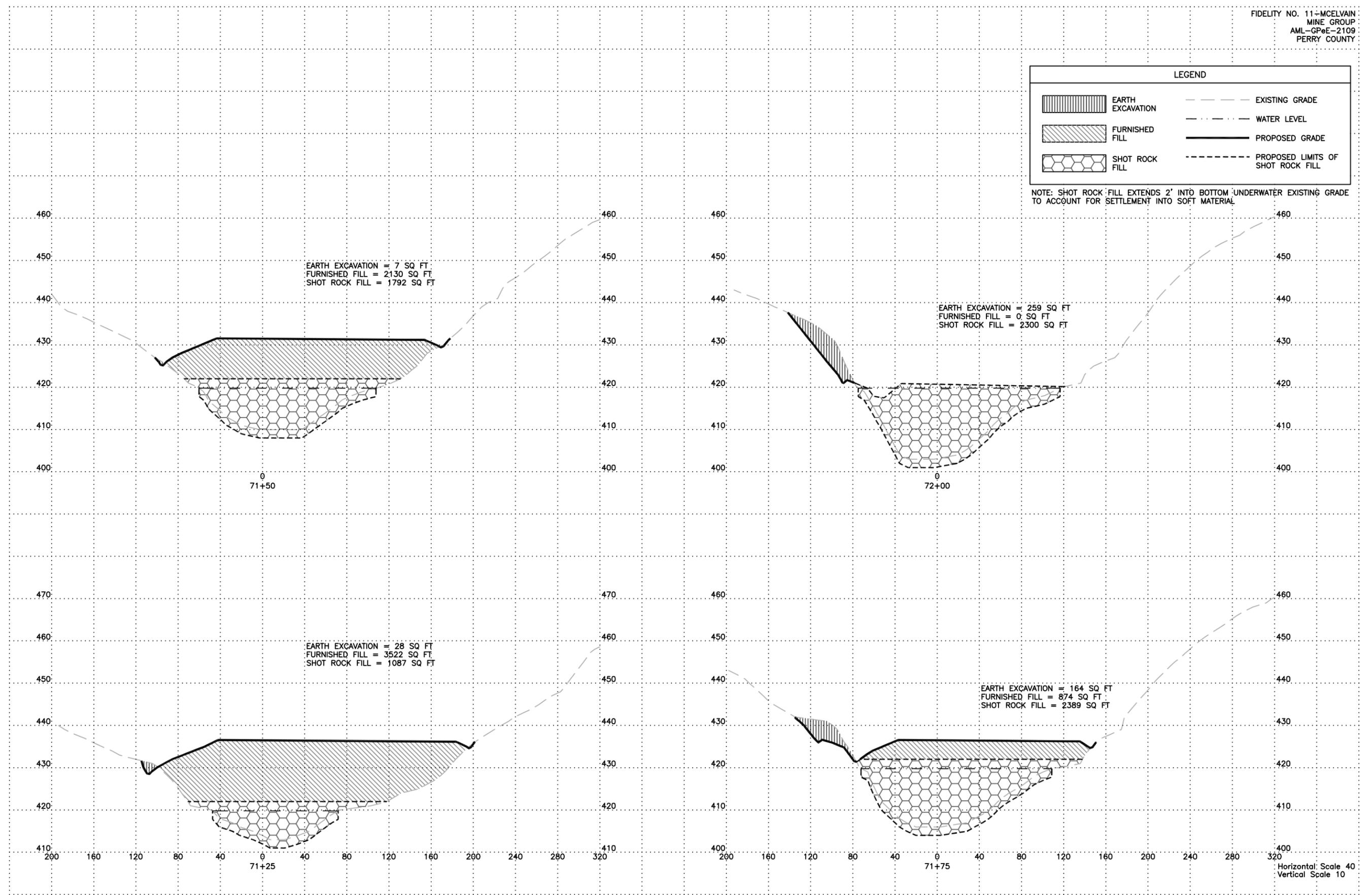


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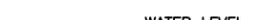
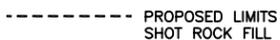
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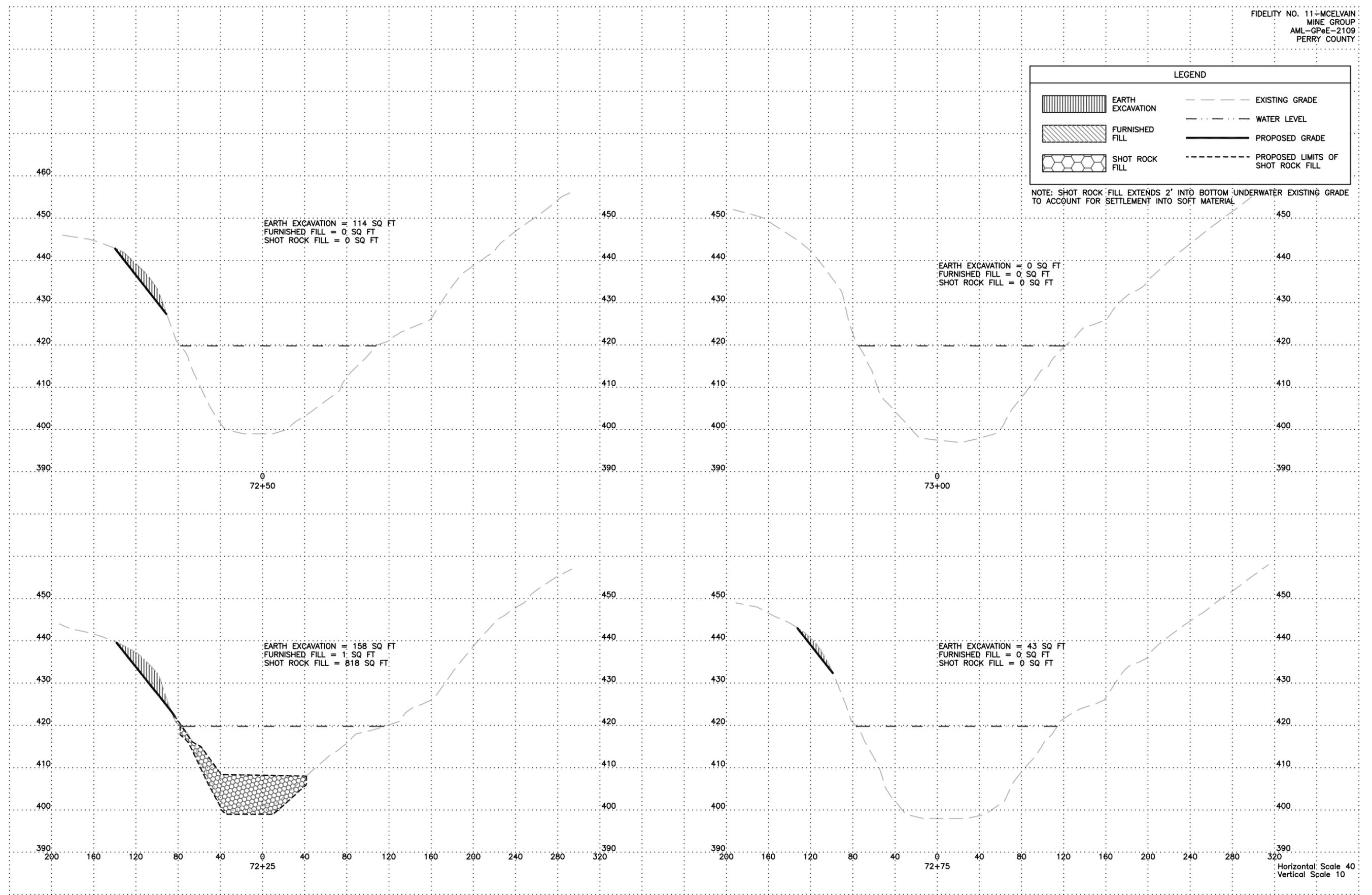


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**LEGEND**

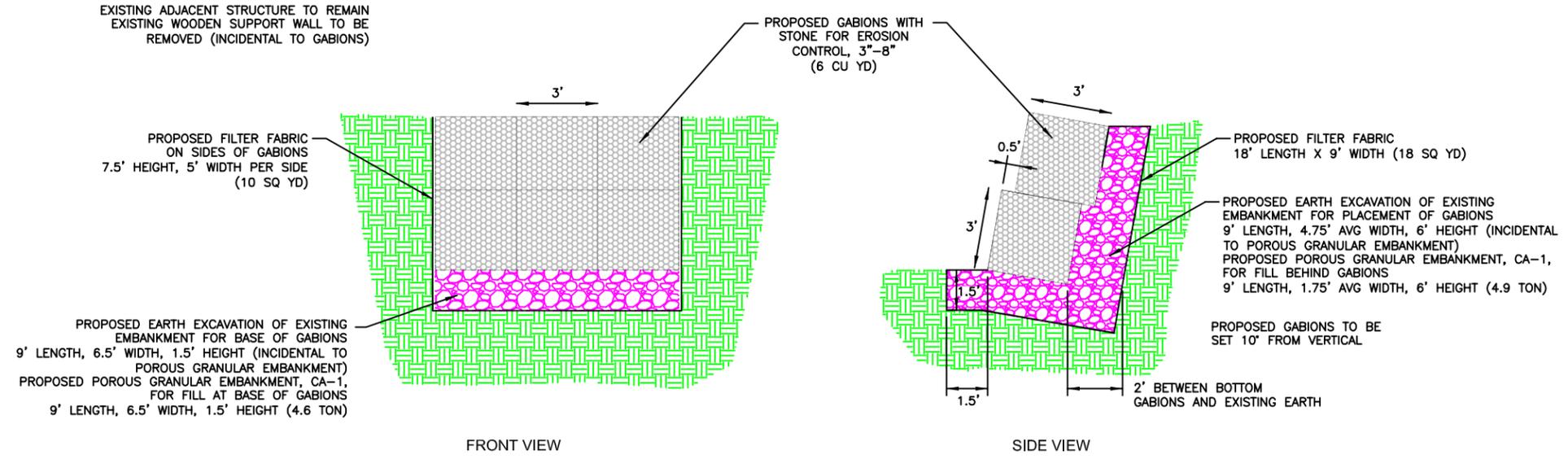
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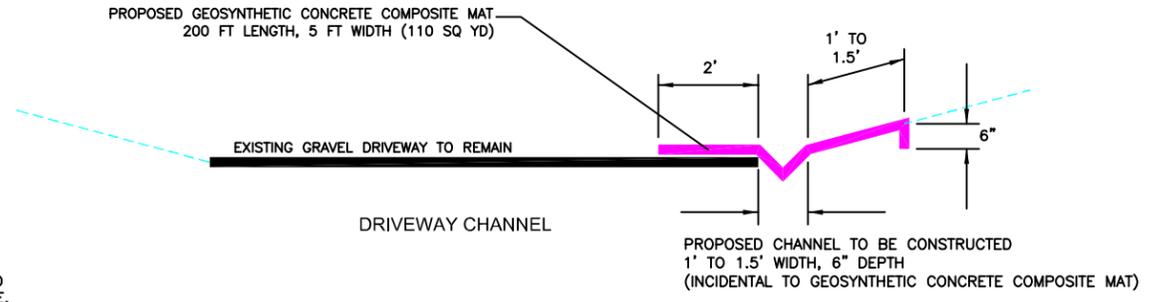
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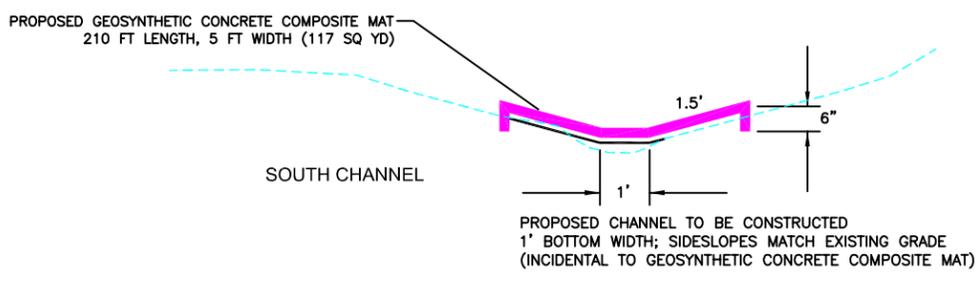
**F**  
41 GABIONS DETAIL  
NOT TO SCALE

- NOTES:
1. EXTREME CAUTION SHALL BE USED WHEN WORKING AROUND THE EXISTING STRUCTURE AND WHEN EXCAVATING THE EXISTING EARTH EMBANKMENT FOR PREPARATION OF THE GABION SITE DUE TO POSSIBILITY OF SLOPE FAILURES.
  2. GABION BASKETS WITH STONE FOR EROSION CONTROL MEASURE 3' X 3' X 3' MINIMUM AND SHALL BE INSTALLED PER SECTION 284 OF THE STANDARD SPECIFICATIONS.
  3. EXCAVATED EARTH MATERIAL SHALL BE HAULED TO THE LOCATION OF THE ADJACENT GEOSYNTHETIC CONCRETE COMPOSITE MAT AND OTHER LOCATIONS FOR USE AS EARTH FILL (INCIDENTAL TO POROUS GRANULAR EMBANKMENT).
  4. FILTER FABRIC SHALL CONSIST OF NON-WOVEN NEEDLE-PUNCHED GEOTEXTILE AND SHALL MEET THE MINIMUM CRITERIA OF ARTICLE 1080.03 OF THE STANDARD SPECIFICATIONS, GRADATION 6 & 7, APPARENT OPENING SIZE MAXIMUM 0.22 mm (US 70 SIEVE PER ASTM D 4751) AND PERMEABILITY MAXIMUM 0.2 cm/SEC (PER ASTM D 4491). FILTER FABRIC SHALL EXTEND 1' BEHIND THE TOP EDGE OF THE GABIONS.



**G**  
41 GEOSYNTHETIC CONCRETE COMPOSITE MAT DETAIL  
NOT TO SCALE

- NOTES, PER SECTION 287:
1. THE GEOSYNTHETIC CONCRETE COMPOSITE MAT SHALL BE OF THICKNESS 0.3 INCHES, UNCURED.
  2. THE MAT SHALL BE INSTALLED BEGINNING AT THE DOWNSTREAM END OF THE PREPARED CHANNEL PROFILE, AND PLACED TRANSVERSELY ACROSS THE STREAM CHANNEL. THE NEXT MAT SHALL BE PLACED UPSTREAM OF THE FORMER AND A 4' WIDE OVERLAP MAINTAINED.
  3. THE 4" OVERLAPPING TRANSVERSE JOINTS SHALL BE FASTENED ALONG A LINE 1.5" FROM THE EDGE OF THE TRANSVERSE SEAM AND AT 8" ON CENTER WITH SCREWS.
  4. THE ENDS OF THE MAT SECTION SHALL BE BURIED 6" INTO THE GROUND AT THE TOP OF THE CROSS SECTION SLOPE. THE SIDES OF THE MAT SHALL ALSO BE BURIED 6" INTO THE GROUND, EXCEPT AT THE EXISTING DRIVEWAY.
  5. THE MAT SHALL BE ANCHORED TO THE SOIL WITH MINIMUM 9 GAGE STAPLES, 8" IN LENGTH.



**H**  
41 CONSTRUCTION SIGN DETAIL  
EXACT LOCATION TO BE SET BY ENGINEER

SPACING LETTERS

4.5"
3.5"
1.5"
3.5"
2.5"
3.5"
3.5"
2.5"
3.5"
1.5"
2.5"
3.0"
1.5"
2.0"
4.5"

**ABANDONED MINED LANDS  
RECLAMATION PROJECT  
STATE OF ILLINOIS**

J.B. PRITZKER, GOVERNOR

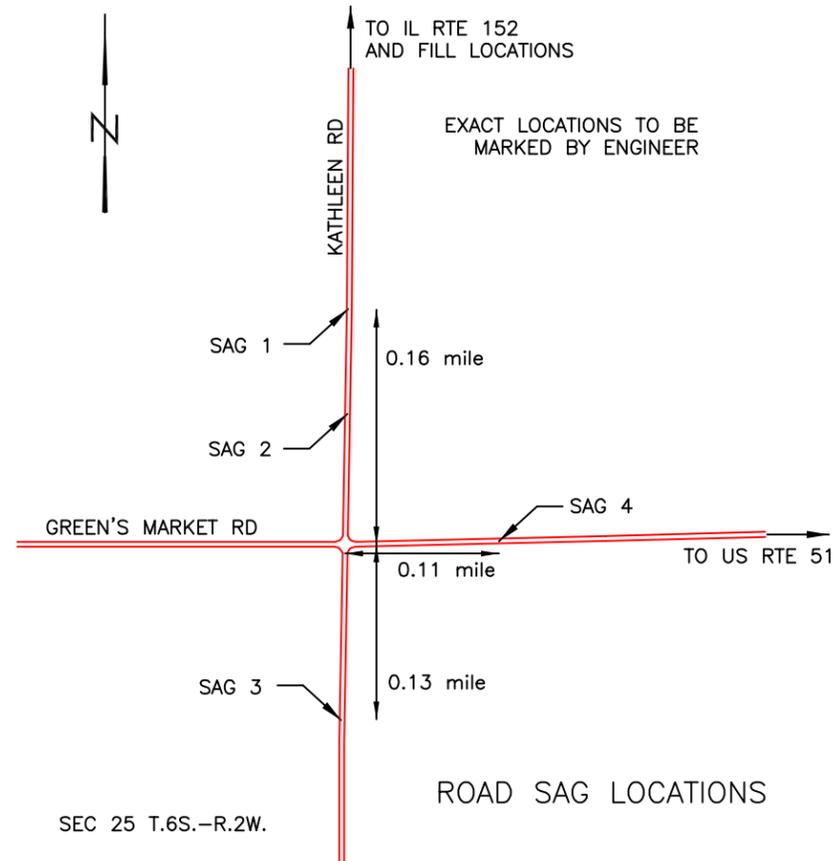
Department of Natural Resources  
Colleen Callahan, Director

Funding provided by the US Department of the Interior  
Office of Surface Mining, with fees paid by the Coal Industry

1. Furnishing, erecting and removing the sign shall be incidental to the contract.
2. The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
3. The posts shall be made of 4" x 4" wood or 2.5" metal pipe, and shall be 10' long. The sign shall be securely fastened to the posts with six 2.5" long, round head wood screws (for wood posts) or four 5" long, 3/8" diameter carriage bolts (for wood or metal posts).
4. The top of the sign shall be level with the top of the posts, and the posts shall be 1' from the edges of the sign. The posts shall be set in the ground 3', so that the bottom of the sign is 3' from the ground.

Drawn By : JLU Date : 4/18/2022

Checked By : \_\_\_\_\_



	SAG 1	SAG 2	SAG 3	SAG 4
Longitudinal Length – Binder Layer	62'	62'	34'	88'
Longitudinal Length – Surface Layer	152'	152'	124'	178'
Pavement Width	22'	22'	22'	22'
Average Sag Depth	0"	3"	0"	4"
Start Easting	2,553,424	2,553,429	2,553,429	2,553,944
Start Northing	477,420	477,022	475,896	476,663
End Easting	2,553,424	2,553,429	2,553,429	2,554,122
End Northing	477,572	477,174	476,020	476,663

Exact Location to be verified by Engineer prior to construction.

**NOTES**

The proposed road improvements shall be construction of Variable Depth Hot-Mix Asphalt Binder Course and 1-1/2" Hot-Mix Asphalt Surface Course. The existing pavement is 22.0 feet wide and totals 606 feet in length.

**TRAFFIC CONTROL:** The contractor shall not close the roads to through traffic during construction at the Sag Locations. Traffic Control shall be in accordance with the Section 701 of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual of Uniform Traffic Control Devices for Streets and Highways, the project Special Provisions and any special details and highway standards contained herein and in the plans. This work shall be inclusive with Traffic Control throughout the project and will be paid for at the unit price per LUMP SUM of Traffic Control and Protection, (Special).

**BITUMINOUS MATERIALS (TACK COAT):** Bituminous Materials Tack Coat shall be applied to existing surface and the binder course before the next level is placed. This work will be paid for at the unit price per POUND of Bituminous Materials (Tack Coat).

**SIGNS, MAILBOXES, AND OBSTRUCTIONS:** Any items requiring temporary relocation to allow for the shoulder work shall be temporarily relocated to the satisfaction of the Engineer and permanently replaced after construction is completed. This work shall be incidental to Traffic Control and Protection.

**COLD MILLING-VARIABLE DEPTH:** Tapers on mainline shall be cold milled. This work shall be incidental to Hot-Mix Asphalt Surface Removal – Butt Joint.

**BUTT JOINTS:** Butt Joints shall be constructed in accordance with details shown on the plans and article 406.09 of the Standard Specifications for Road and Bridge Construction. This work shall be incidental to Hot-Mix Asphalt Surface Removal – Butt Joints.

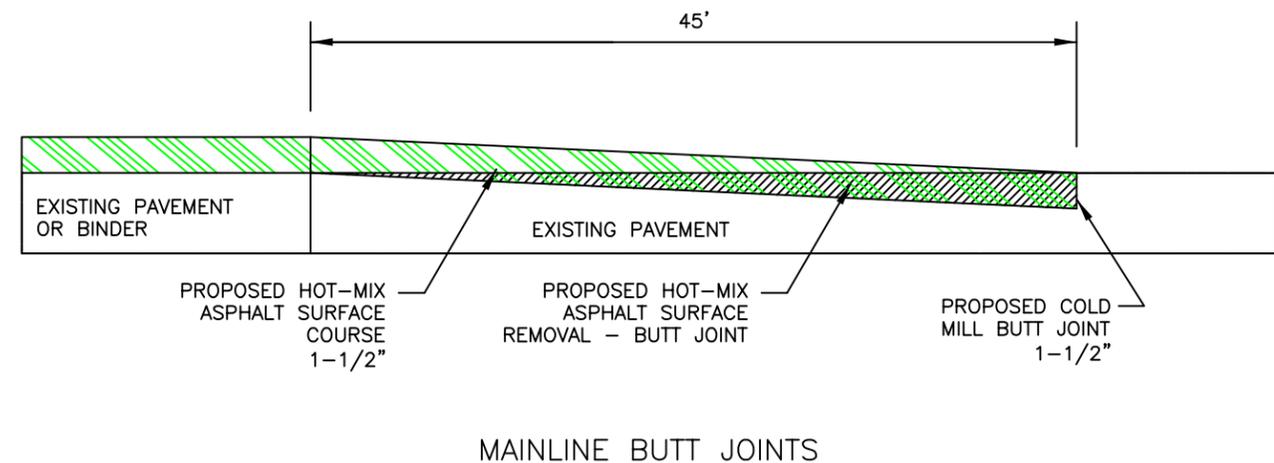
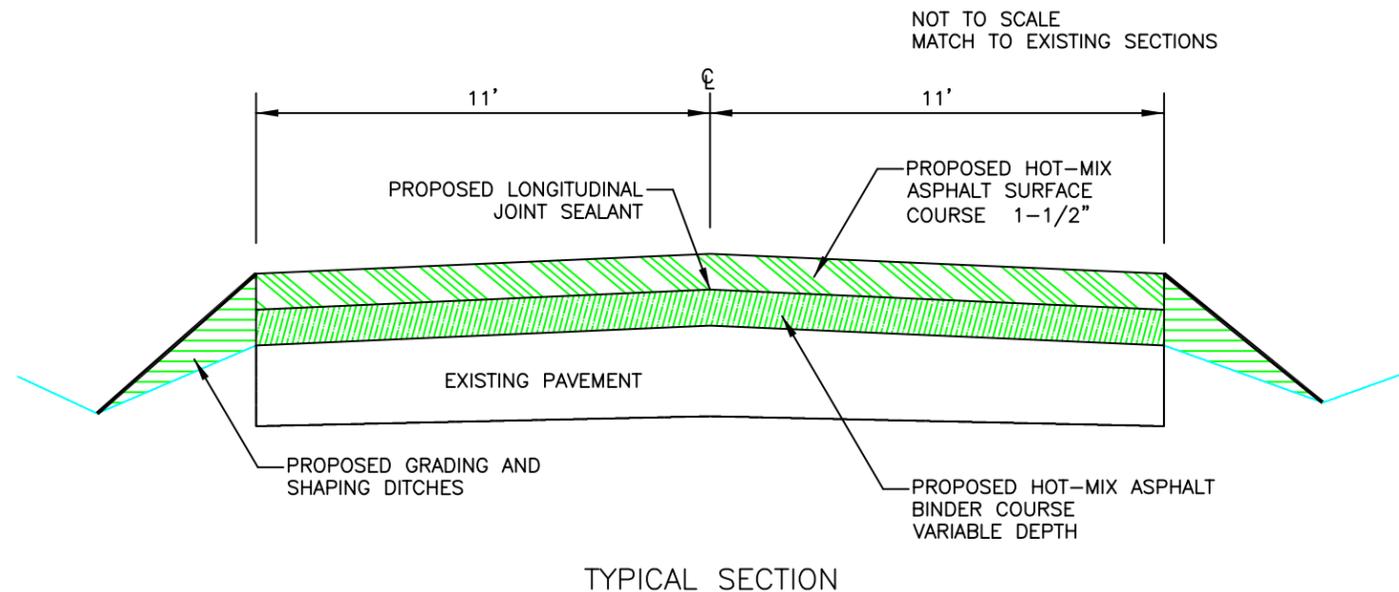
**LONGITUDINAL JOINT SEALANT:** Longitudinal joint sealant shall be placed below the surface course on the last layer of binder or on the existing surface. This work will be paid for at the unit price per FOOT of Longitudinal Joint Sealant.

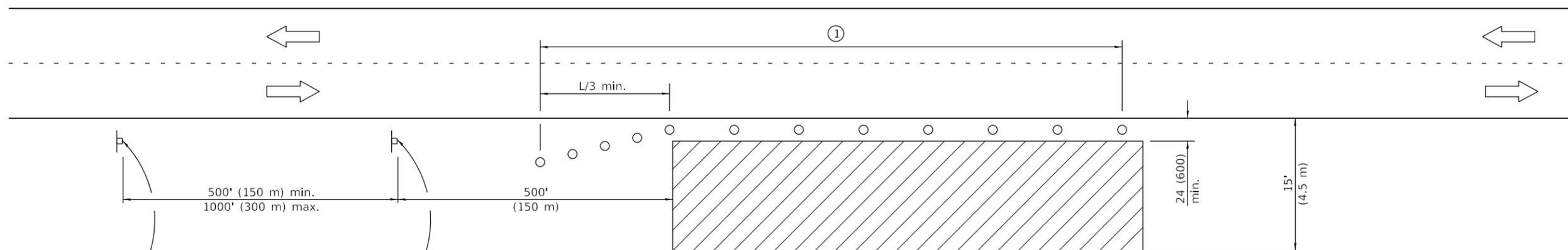
**GRADING AND SHAPING DITCHES:** The Contractor shall provide earth fill to create a front slope from the top of the new surface course to the flow line of the ditch. This material may be obtained from any of the Earth Excavation locations on the project. This work will be paid for at the unit price per FOOT of Grading and shaping ditches.

**PAVEMENT MARKING:** All pavement markings on Green's Market Road are single dash lines in the lanes and solid lines along the pavement edges. All pavement markings on Kathleen Road north of Green's Market Road are dash single lines in the Southbound Lanes, solid single lines in the Northbound Lanes, and solid lines along the pavement edges. No pavement markings are required for Kathleen Road south of Green's Market Road. This work will be paid for at the unit price per FOOT of Paint Pavement Marking – Line 4"

Item No.	#	Item	Section	Quantity					Unit
				SAG 1	SAG 2	SAG 3	SAG 4	TOTAL	
21400100	5	Grading and Shaping Ditches	IDOT 214	304	304	248	356	1,212	FOOT
40600370	24	Longitudinal Joint Sealant	IDOT 406	152	152	124	178	606	FOOT
40600982	25	Hot-Mix Asphalt Surface Removal – Butt Joint	IDOT 406	220	220	220	220	880	SQ YD
40602985	26	Hot-Mix Asphalt Binder Course, IL-9.5, N70	IDOT 406	0	25	0	48	73	TON
40604052	27	Hot-Mix Asphalt Surface Course, IL-9.5, MIX "C", N70	IDOT 406	31	31	25	37	124	TON
40700100	28	Bituminous Materials (Tack Coat)	IDOT 407	152	152	106	195	605	POUND
X7010216	36	Traffic Control and Protection, (Special)	701	0.1	0.1	0.1	0.1	0.4	L SUM
70300100	37	Short Term Pavement Marking	IDOT 703	38	38	0	45	121	FOOT
78001110	38	Paint Pavement Marking – Line 4"	IDOT 780	494	494	0	401	1,389	FOOT

NOTE: Grading and Shaping Ditches areas will also receive 0.3 ACRE Seeding, 30 POUND Nitrogen Fertilizer Nutrient, 45 POUND Phosphorus Fertilizer Nutrient, 60 POUND Potassium Fertilizer Nutrient, 1.5 TON Agricultural Ground Limestone and 0.3 ACRE Mulch. This area shall not receive the 2nd Application of Nitrogen Fertilizer Nutrient, Seeding Class 7, or Mowing.





For contract construction projects

**ROAD CONSTRUCTION AHEAD**

W20-1103(0)-48

**ROAD WORK AHEAD**

W21-1(0)-48

For maintenance and utility projects

**ROAD WORK AHEAD**

W20-1(0)-48

**TYPICAL APPLICATIONS**

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

**SYMBOLS**

-  Work area
-  Sign
-  Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

**GENERAL NOTES**

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE**

**STANDARD 701006-05**

Illinois Department of Transportation

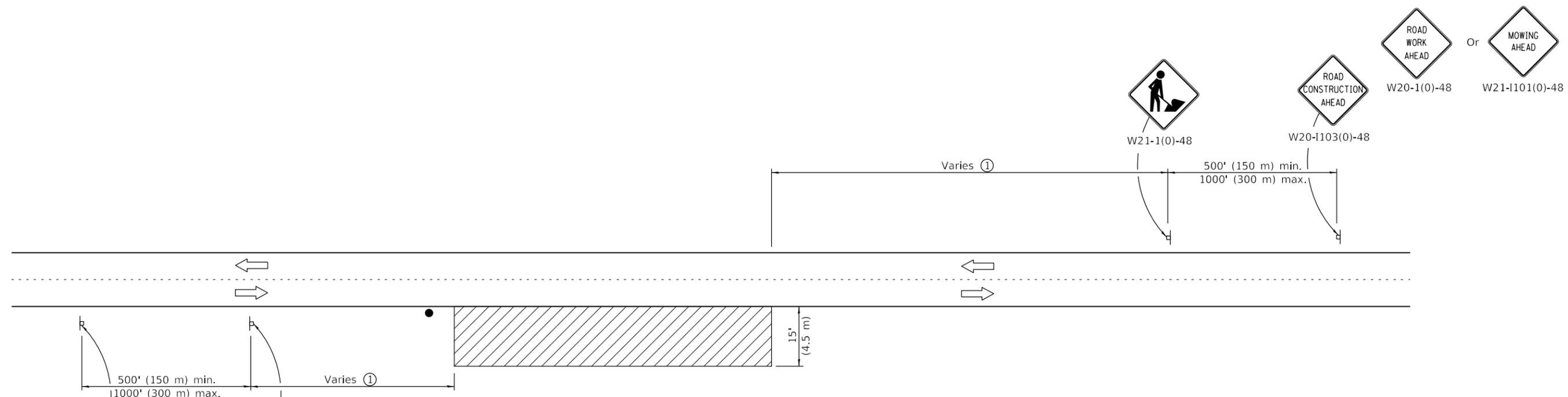
PASSED January 1, 2014

ENGINEER OF SAFETY ENGINEERING

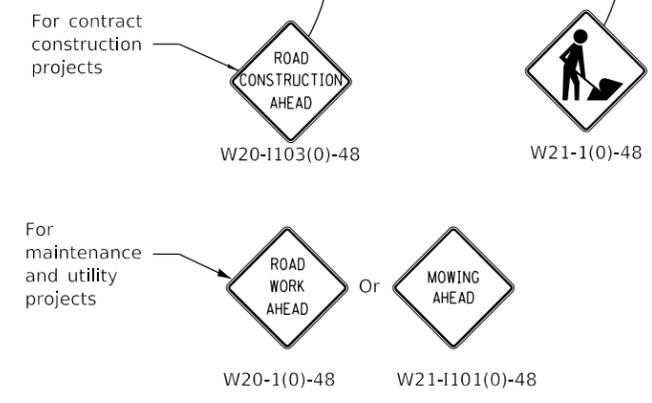
APPROVED January 1, 2014

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**TYPICAL APPLICATIONS**  
Shoulder work  
Utility operations



**SYMBOLS**

-  Work area
-  Sign
-  Flagger with traffic control sign when required

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

**GENERAL NOTES**

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD MOVING OPERATIONS,  
2L, 2W, DAY ONLY**

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**STANDARD 701011-04**

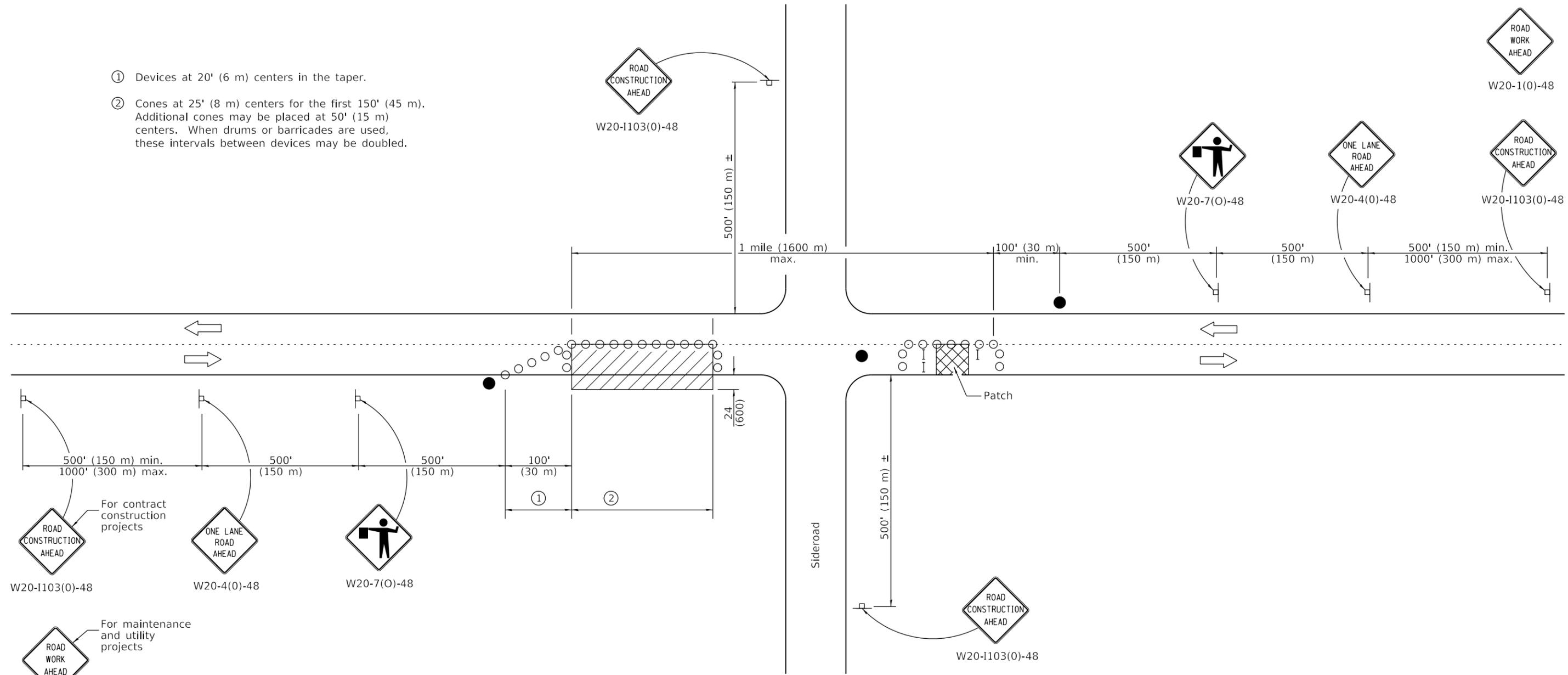
Illinois Department of Transportation

PASSED January 1, 2014  
*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

- ① Devices at 20' (6 m) centers in the taper.
- ② Cones at 25' (8 m) centers for the first 150' (45 m). Additional cones may be placed at 50' (15 m) centers. When drums or barricades are used, these intervals between devices may be doubled.



For contract construction projects

W20-1103(0)-48      W20-4(0)-48      W20-7(0)-48

For maintenance and utility projects

W20-1(0)-48

**SYMBOLS**

- Work area
- Sign
- Barricade or drum
- Cone, drum or barricade
- Flagger with traffic control sign

**TYPICAL APPLICATIONS**

Isolated patching  
Utility operations  
Storm sewer  
Culverts  
Cable placement

**GENERAL NOTES**

This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

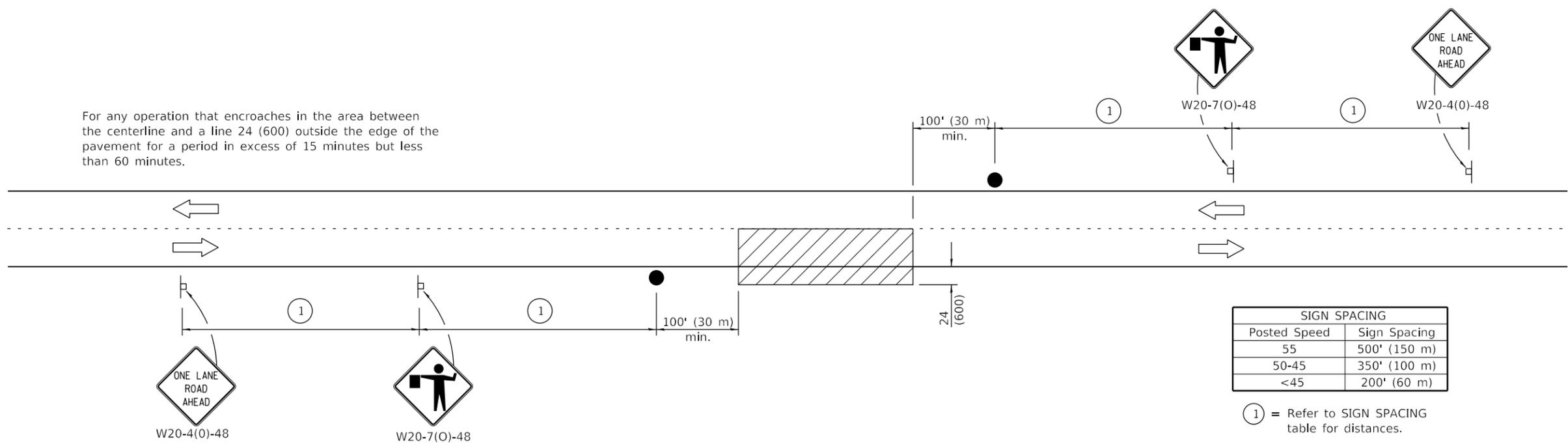
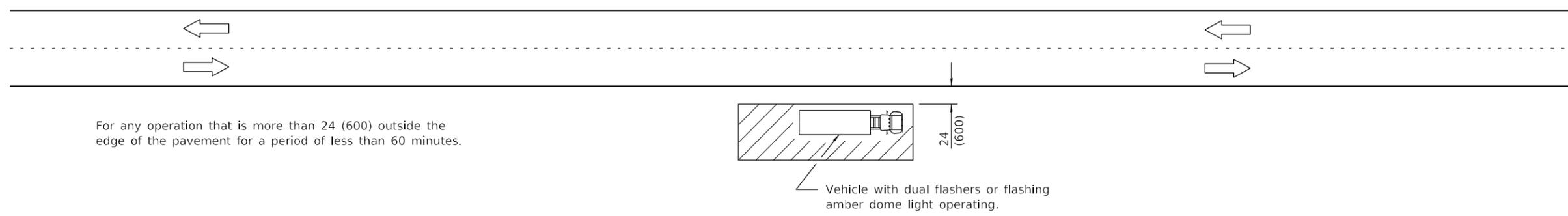
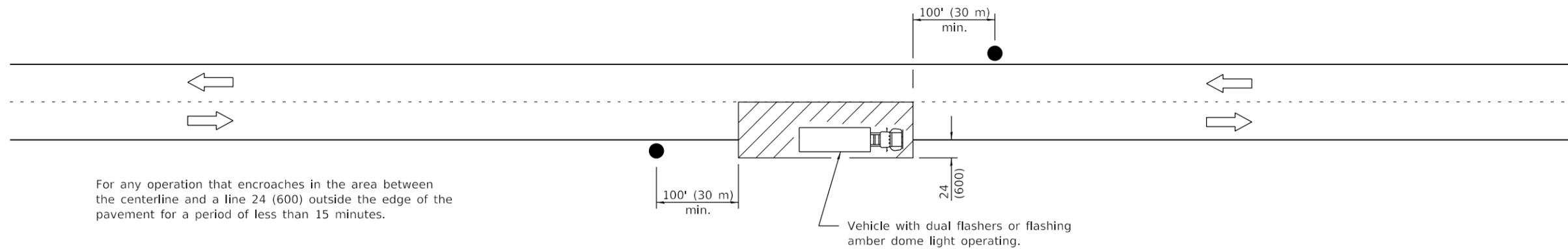
APPROVED January 1, 2019  
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-19	Revised device spacing in taper.
1-1-11	Revised flagger sign.

**LANE CLOSURE, 2L, 2W,  
DAY ONLY,  
FOR SPEEDS ≥ 45 MPH**

**STANDARD 701201-05**



**TYPICAL APPLICATIONS**

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011  
*Amelia Adams*  
 ENGINEER OF SAFETY ENGINEERING

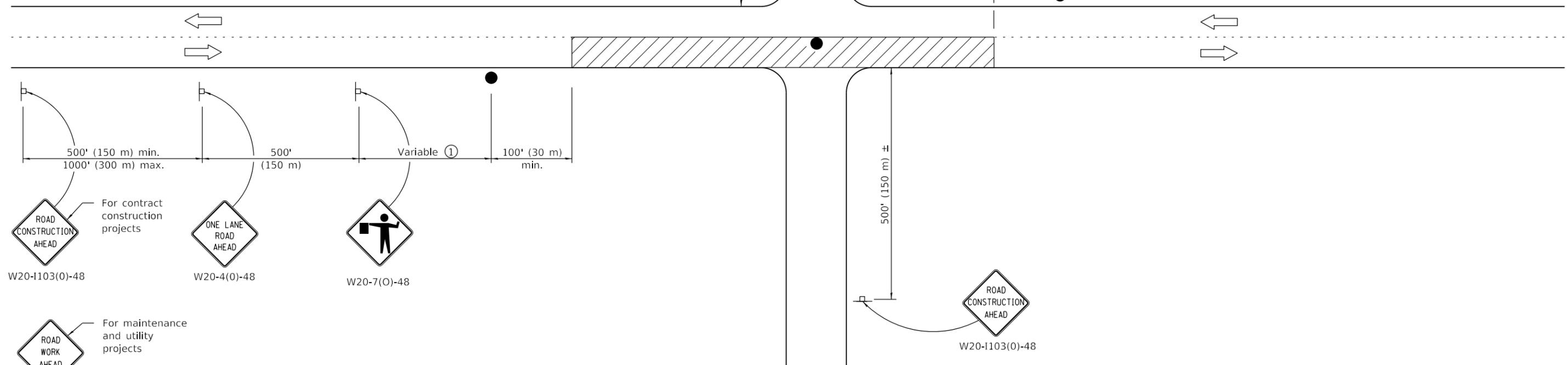
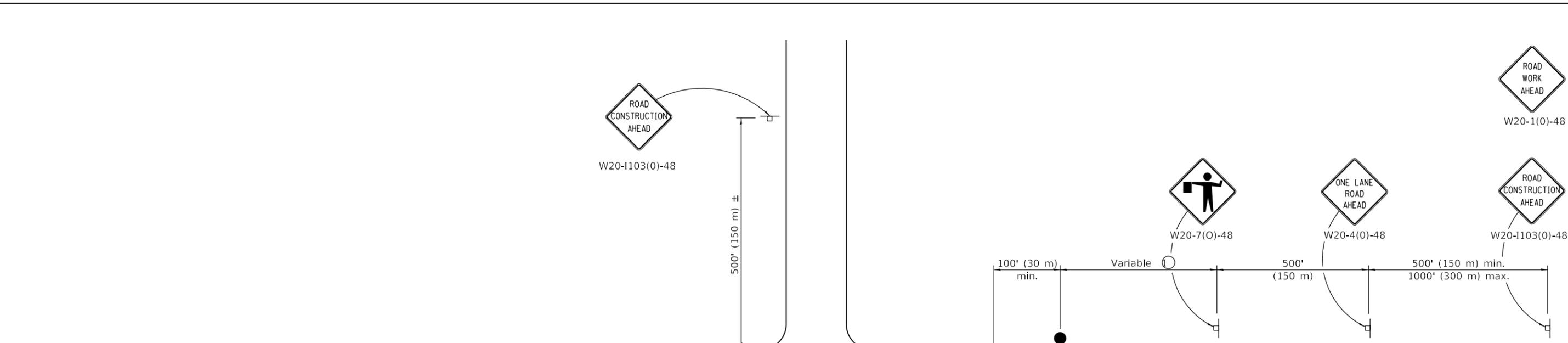
APPROVED January 1, 2011  
*Scott Schick*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

**LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS**

**STANDARD 701301-04**



For contract construction projects  
 ROAD CONSTRUCTION AHEAD W20-1(0)-48  
 ONE LANE ROAD AHEAD W20-4(0)-48  
 ROAD CONSTRUCTION AHEAD W20-7(0)-48

For maintenance and utility projects  
 ROAD WORK AHEAD W20-1(0)-48

**TYPICAL APPLICATIONS**

- Bituminous resurfacing
- Milling operations
- Utility operations
- Shoulder operations

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ½ the length required for one normal working day's operation or 2 miles (3200 m), whichever is less.

**GENERAL NOTES**

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the pavement where the average speed of movement is greater than ½ mph (1 km/h) and less than 4 mph (6 km/h).

When the operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-18	Revised lower speed limit for operation to ½ mph.
1-1-11	Revised flagger sign.

**LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH**

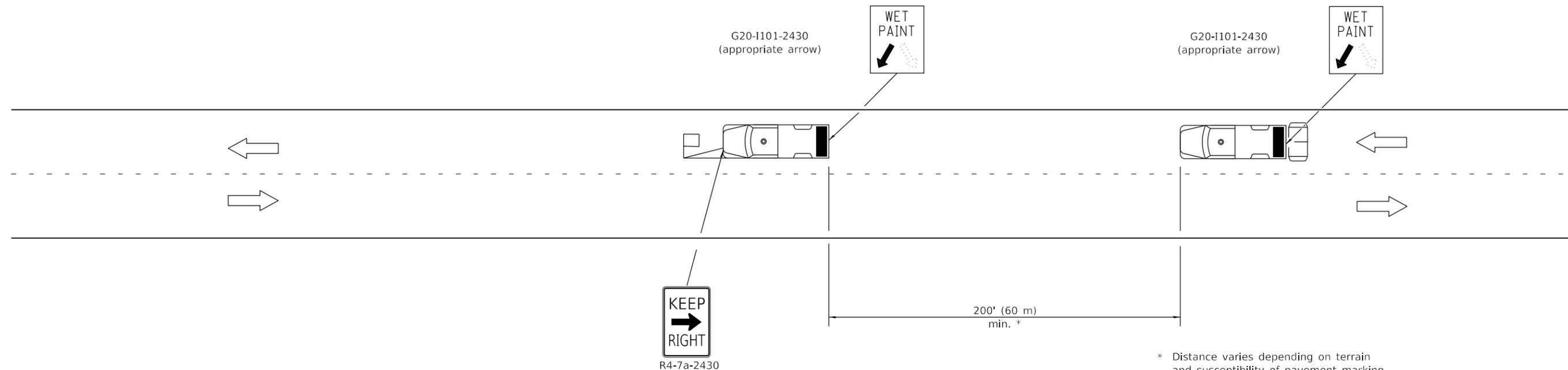
**STANDARD 701306-04**

Illinois Department of Transportation

PASSED January 1, 2018  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2018  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

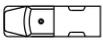


\* Distance varies depending on terrain and susceptibility of pavement marking or crack sealant to wheel tracking.

**TYPICAL APPLICATIONS**

- Landscaping work
- Utility work
- Pavement marking
- Weed spraying
- Roadometer measurements
- Debris cleanup
- Crack pouring

**SYMBOLS**

-  Arrow board (Hazard Mode only)
-  Truck with headlights, emergency flashers and flashing amber light. (visible from all directions)
-  18x18 (450x450) min. orange flag (use when guide wheel is used)
-  Truck mounted attenuator

**GENERAL NOTES**

This Standard is used where any vehicle, equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 3 mph (5 km/h).

For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 701426.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted Pass With Care sign.
1-1-00	Elim. speed restrictions in Standard title.

**LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY**

**STANDARD 701311-03**

Illinois Department of Transportation

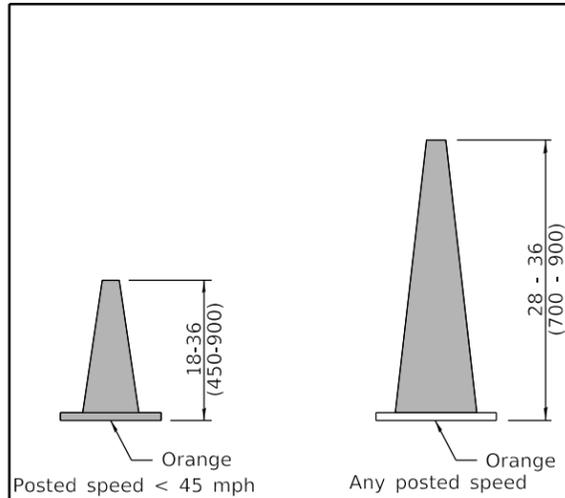
PASSED January 1, 2009

ENGINEER OF OPERATIONS

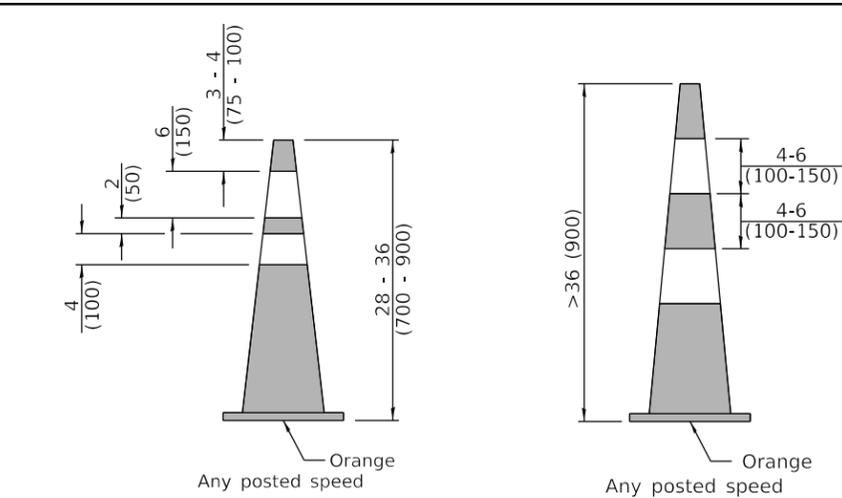
APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

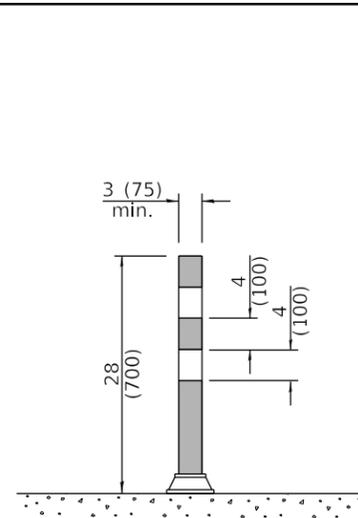
ISSUED 1-1-97



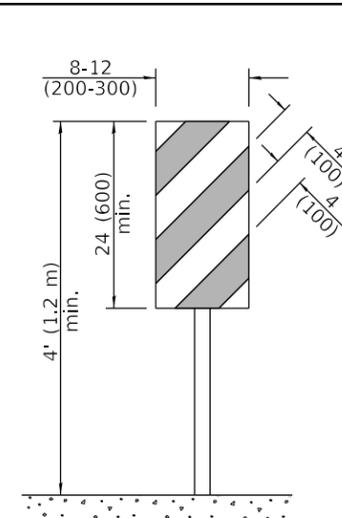
**DAYTIME USE**



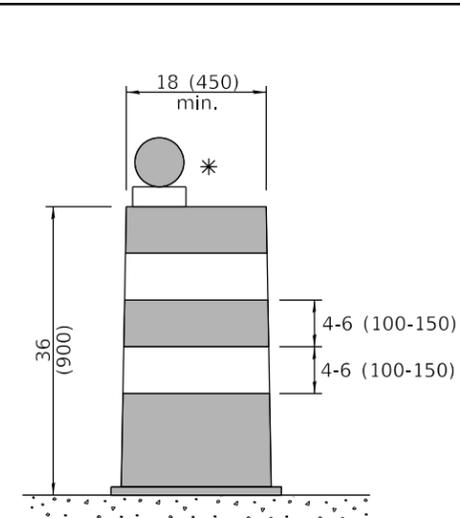
**DAY OR NIGHTTIME USE**



**TUBULAR MARKER**

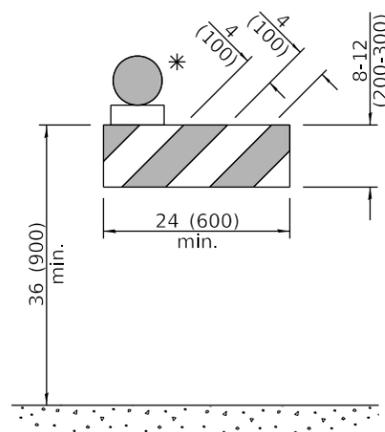


**VERTICAL PANEL  
POST MOUNTED**

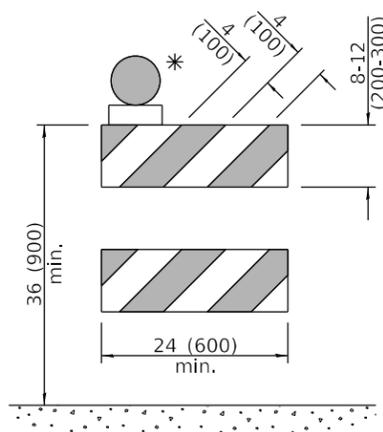


**DRUM**

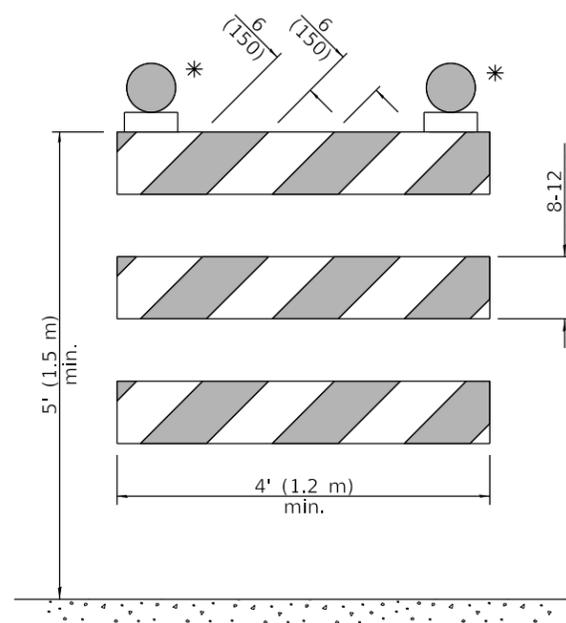
**CONES**



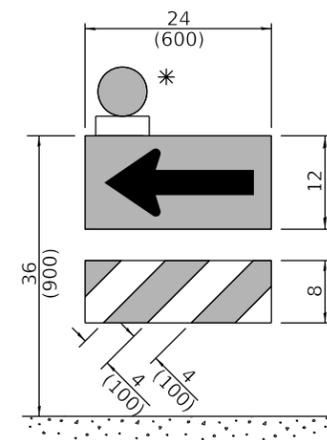
**TYPE I BARRICADE**



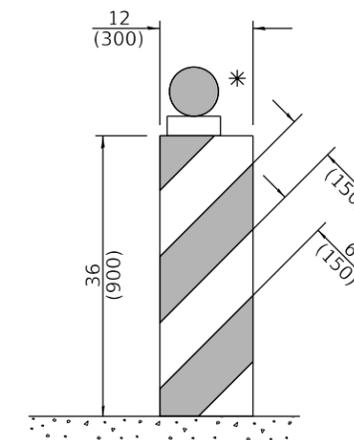
**TYPE II BARRICADE**



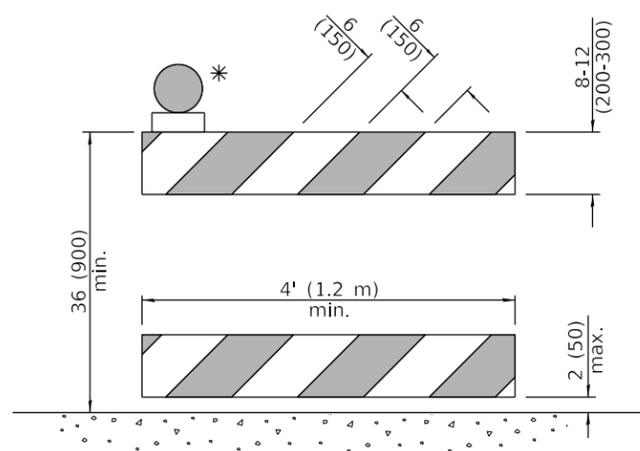
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

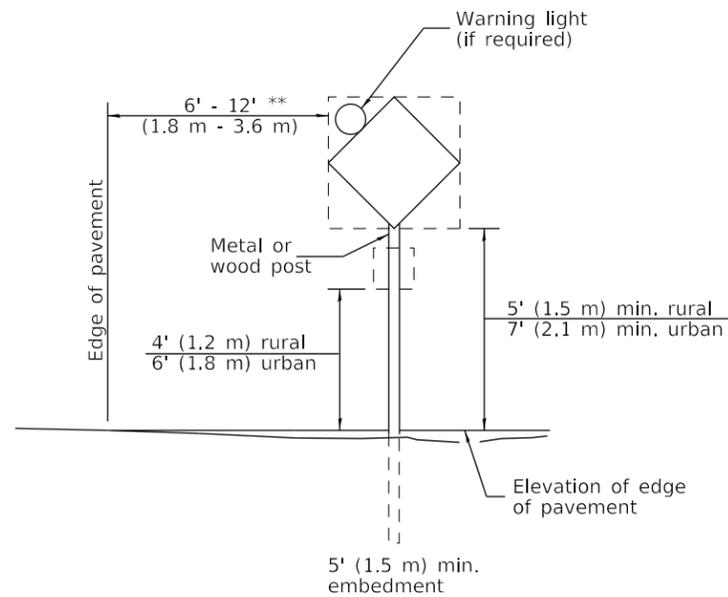
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

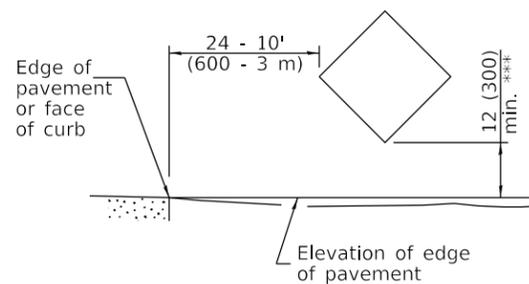
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED  
 ET-1-1



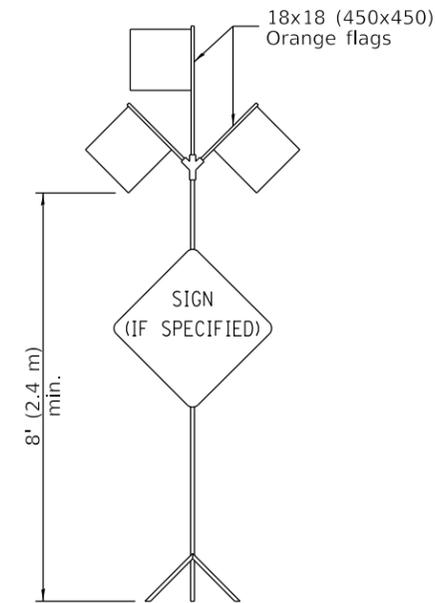
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.

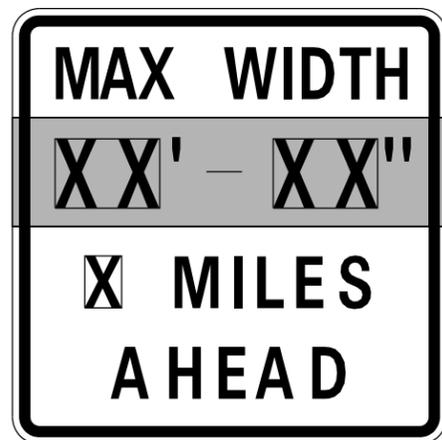


**HIGH LEVEL WARNING DEVICE**

ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
G20-I104(0)-6036	G20-I105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.  
 ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.  
 END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).  
 Dual sign displays shall be utilized on multi-lane highways.

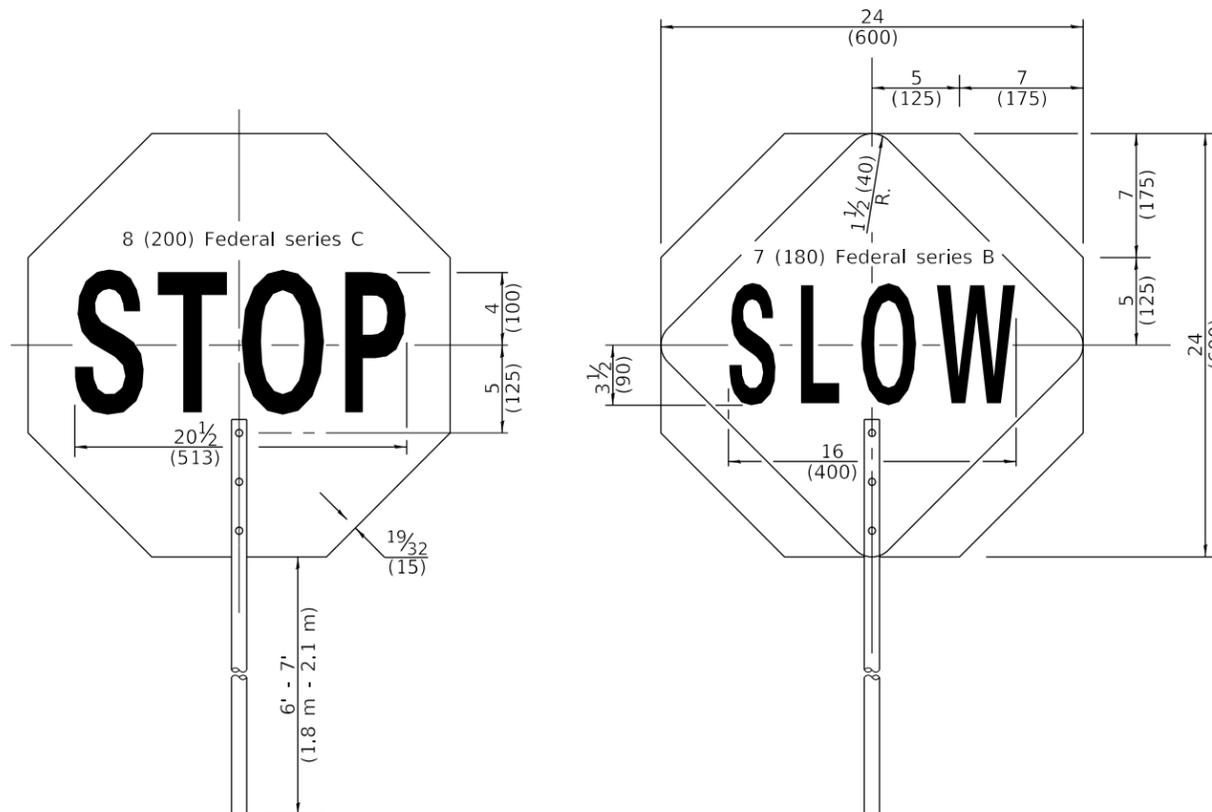
**WORK LIMIT SIGNING**



W12-I103-4848

**WIDTH RESTRICTION SIGN**

XX'-XX" width and X miles are variable.



**FLAGGER TRAFFIC CONTROL SIGN**

WORK ZONE	W21-III5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
\$XXX FINE MINIMUM	R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT	G20-I103-6036
---------------------------	---------------

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-I108p shall only be used along roadways under the jurisdiction of the State.

Illinois Department of Transportation

APPROVED January 1, 2019  
*[Signature]*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

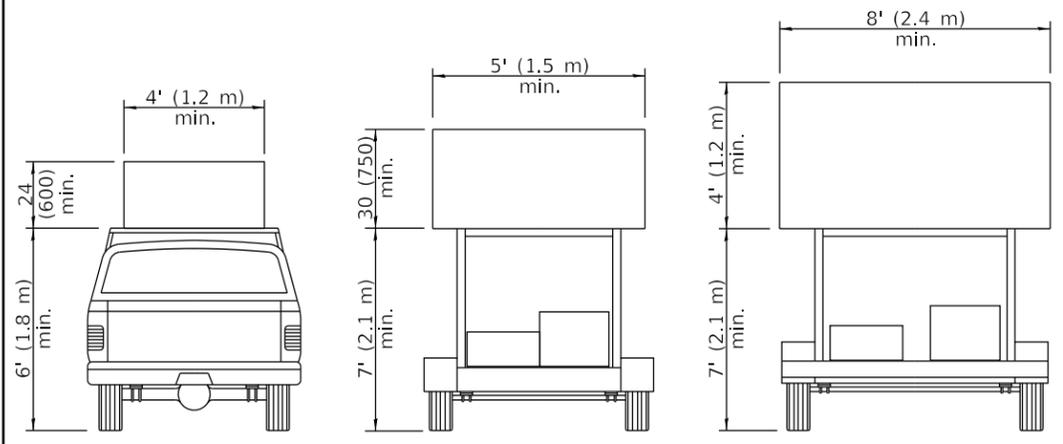
APPROVED January 1, 2019  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

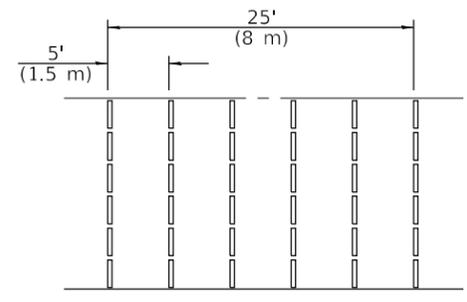
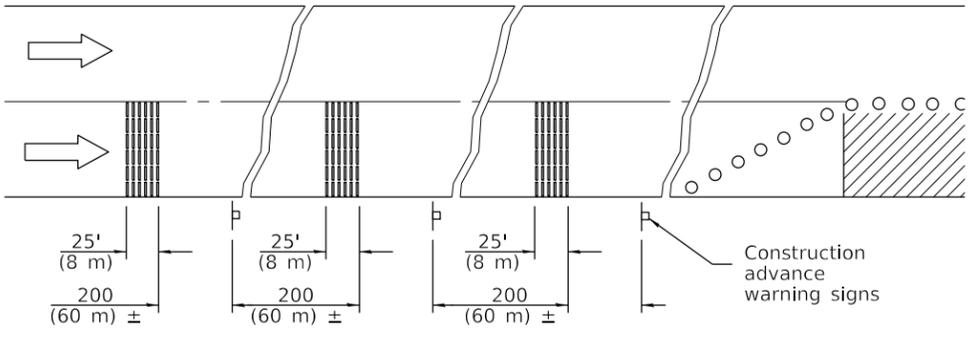
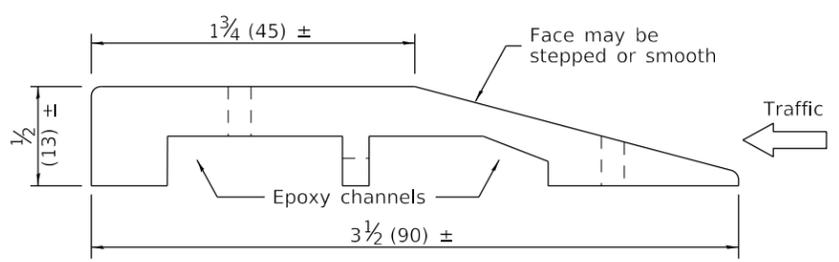
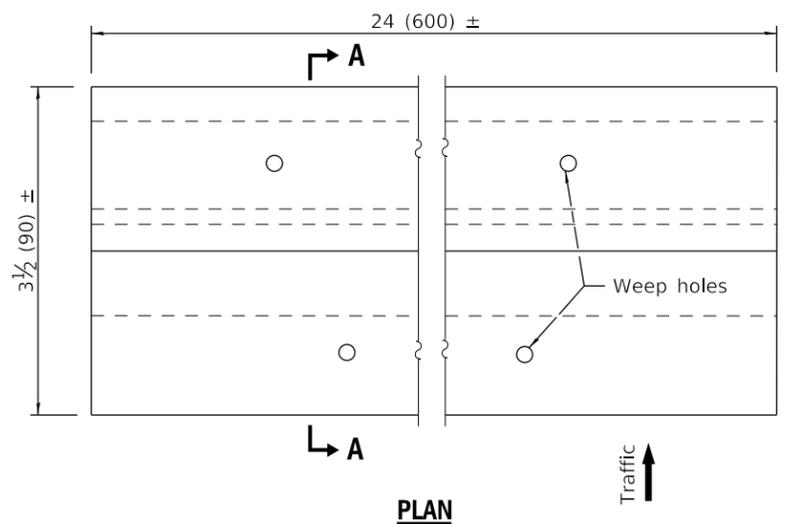
**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

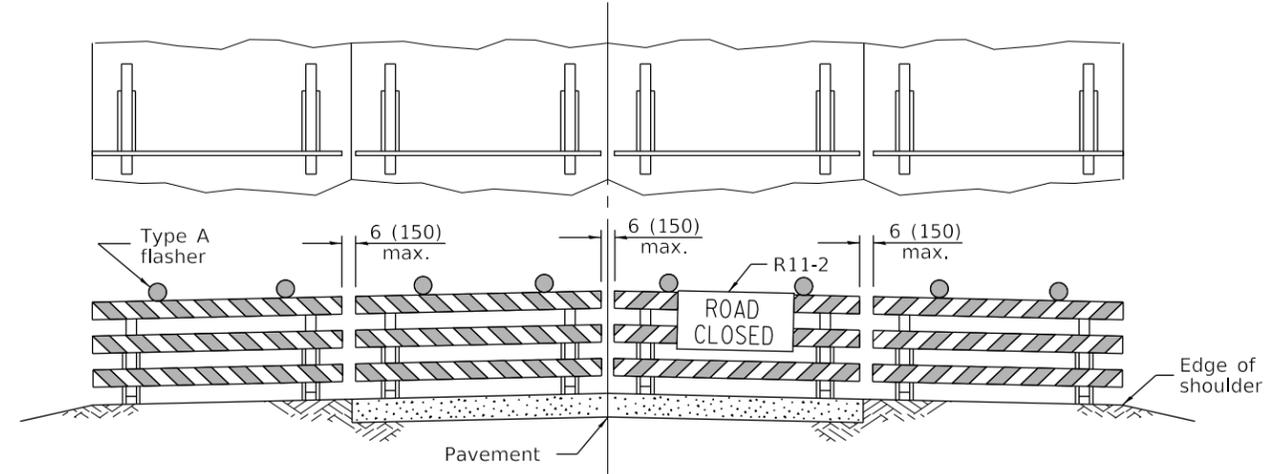
**STANDARD 701901-08**



**ARROW BOARDS**

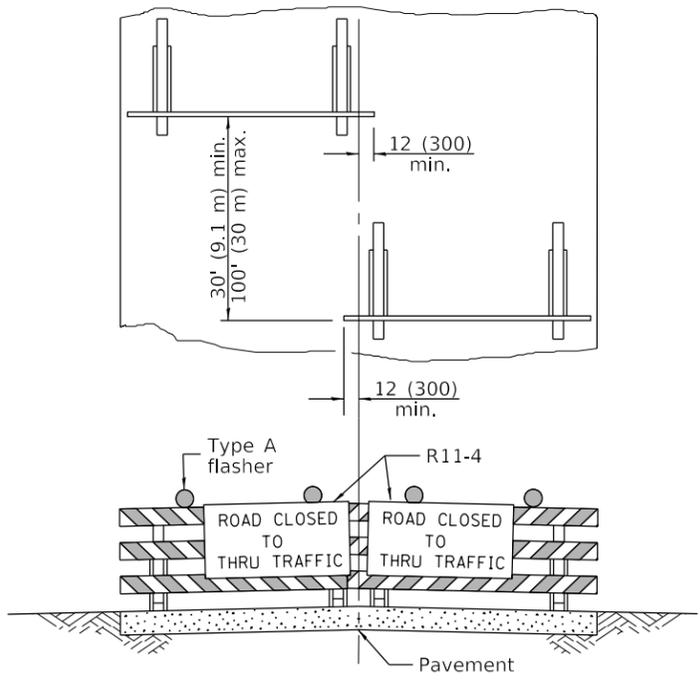


**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**ROAD CLOSED TO THRU TRAFFIC**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019

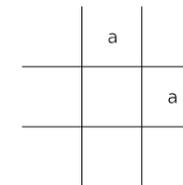
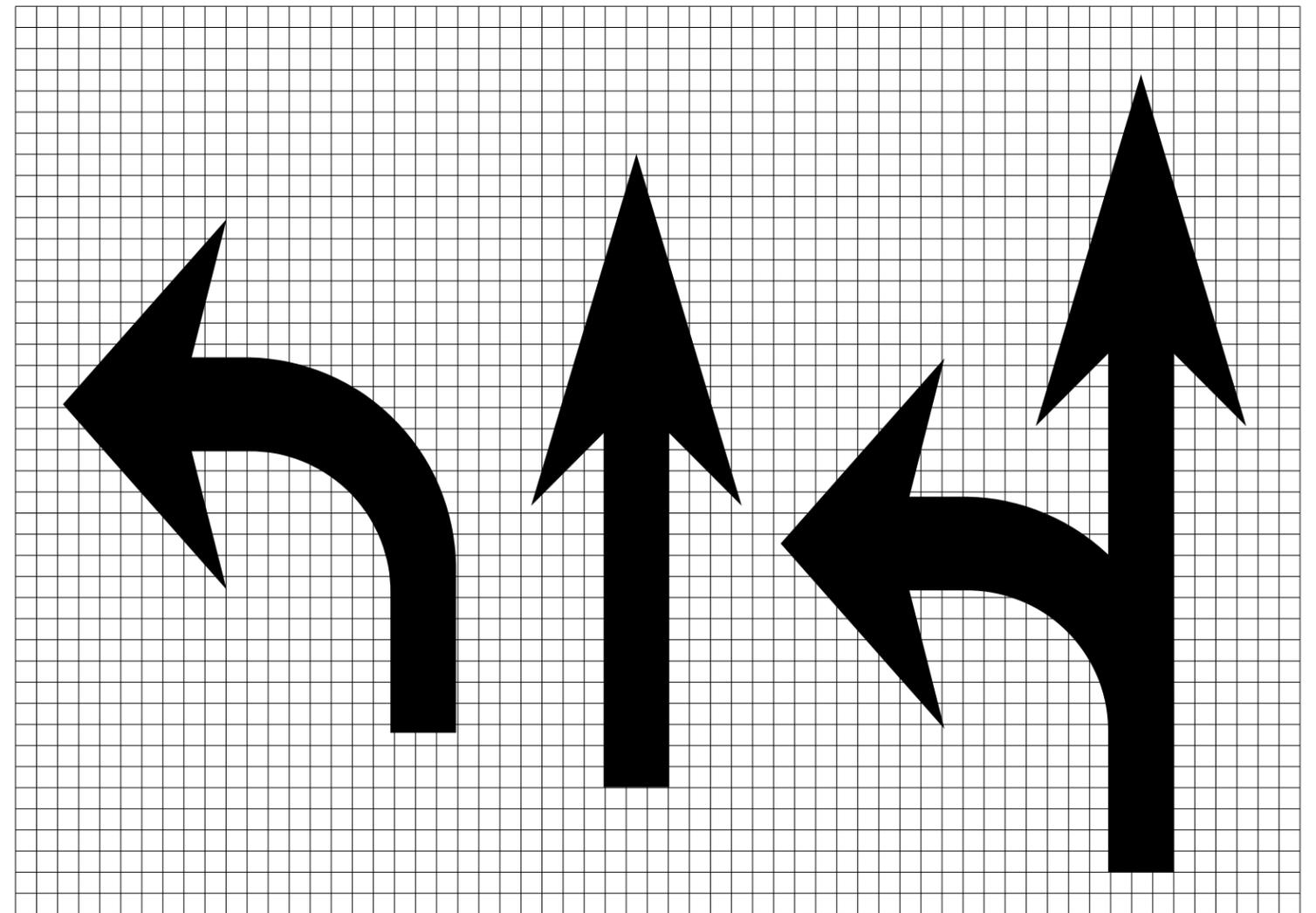
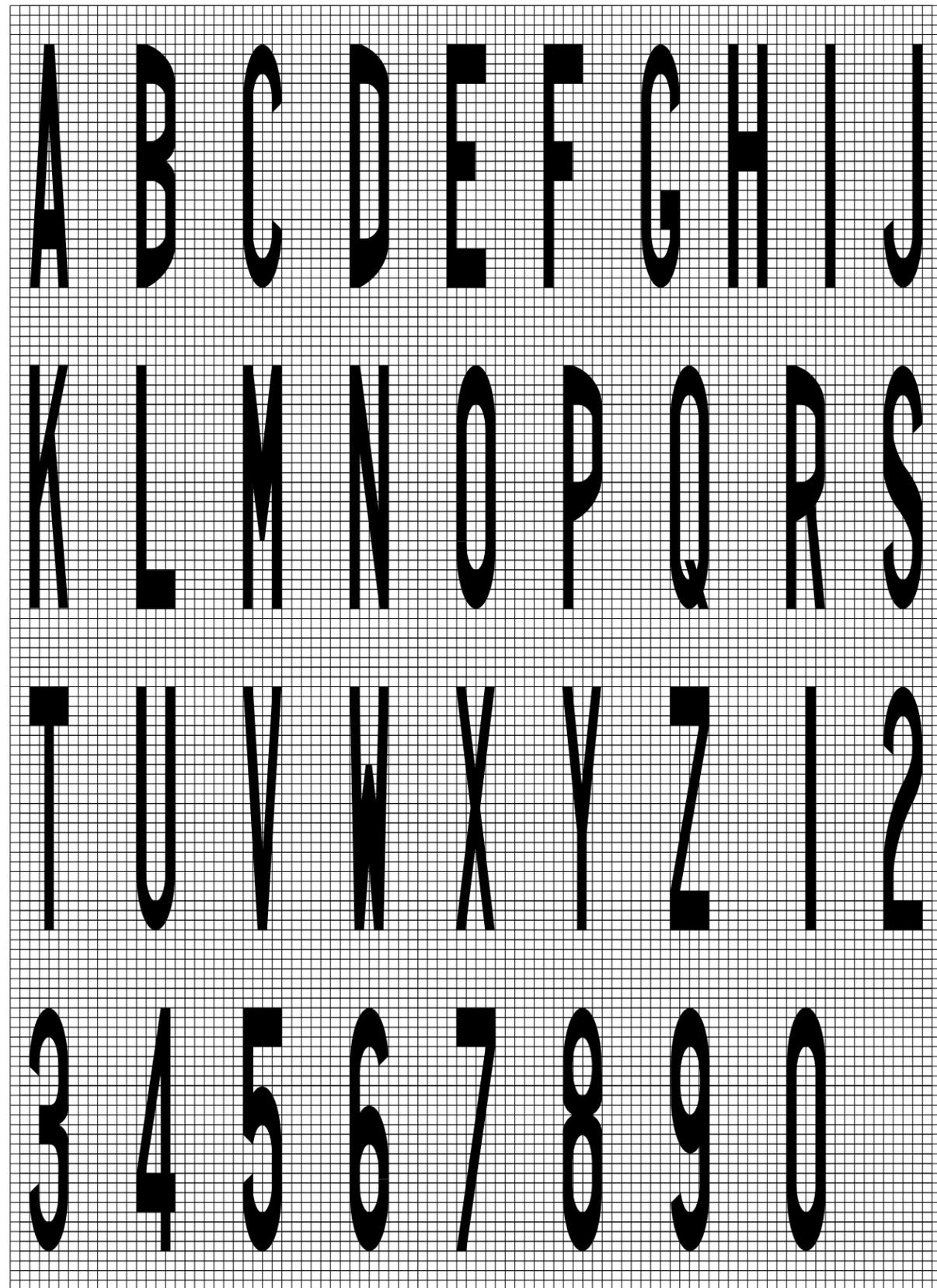
*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES: E1-1-1





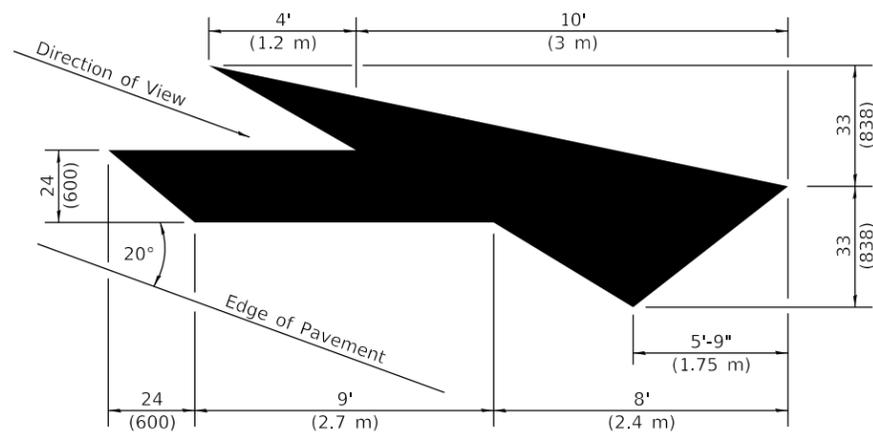
Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

**LETTER AND ARROW GRID SCALE**

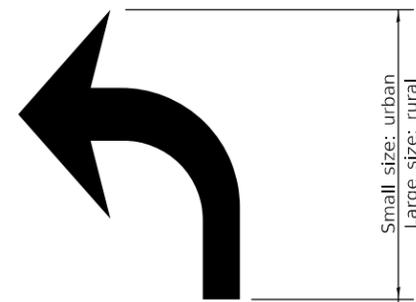
 Illinois Department of Transportation  
 PASSED January 1, 2015  
*Amy Eller*  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2015  
*RE*  
 ENGINEER OF DESIGN AND ENVIRONMENT  
 ISSUED 1-1-97

**TYPICAL PAVEMENT MARKINGS**  
 (Sheet 2 of 3)  
**STANDARD 780001-05**



**LANE-REDUCTION ARROW**

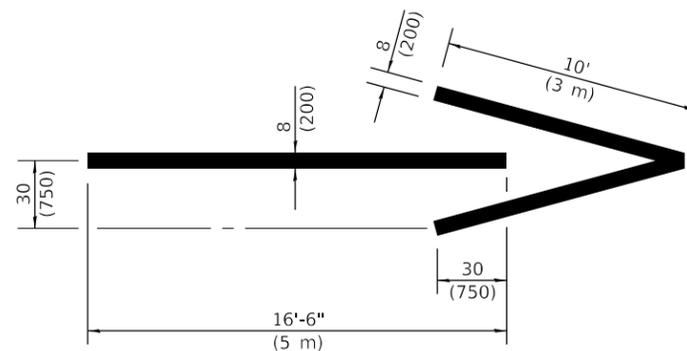
Right lane-reduction arrow shown.  
Use mirror image for left lane.



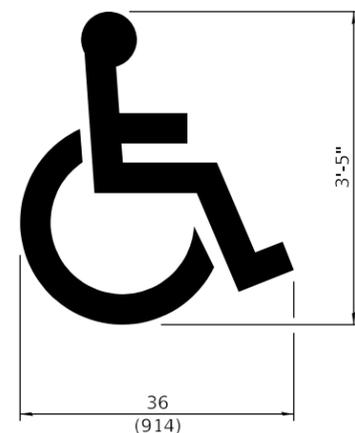
20' (6 m): urban  
50' (15 m): rural  
(Between arrow  
and word or  
between words)



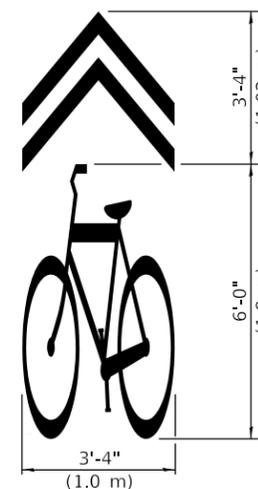
**WORD AND ARROW LAYOUT**



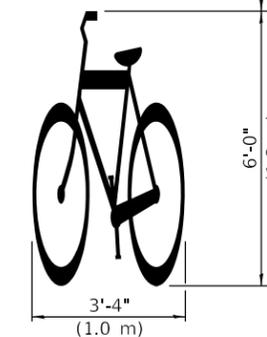
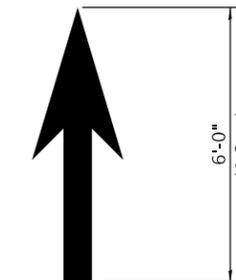
**WRONG WAY ARROW**



**INTERNATIONAL  
SYMBOL OF  
ACCESSIBILITY**



**SHARED LANE  
SYMBOL**



**BIKE SYMBOL**  
(Arrow is optional.)

Illinois Department of Transportation

PASSED January 1, 2015  
*Amy Allen*  
ENGINEER OF OPERATIONS

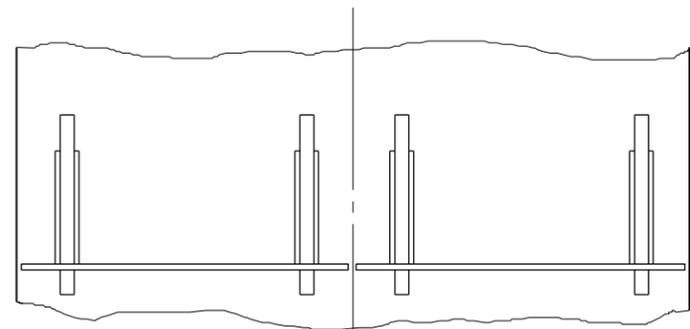
APPROVED January 1, 2015  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

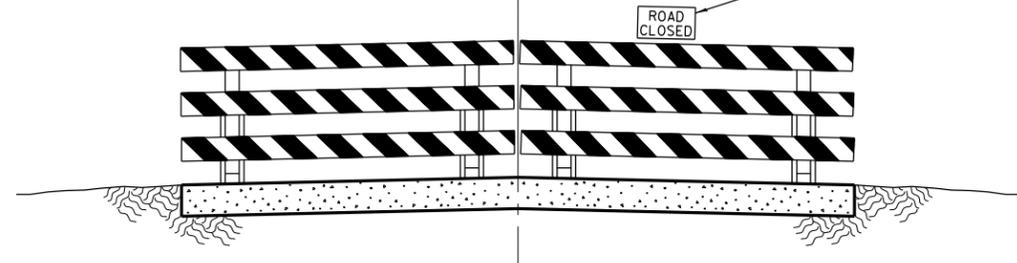
**TYPICAL PAVEMENT  
MARKINGS**

(Sheet 3 of 3)

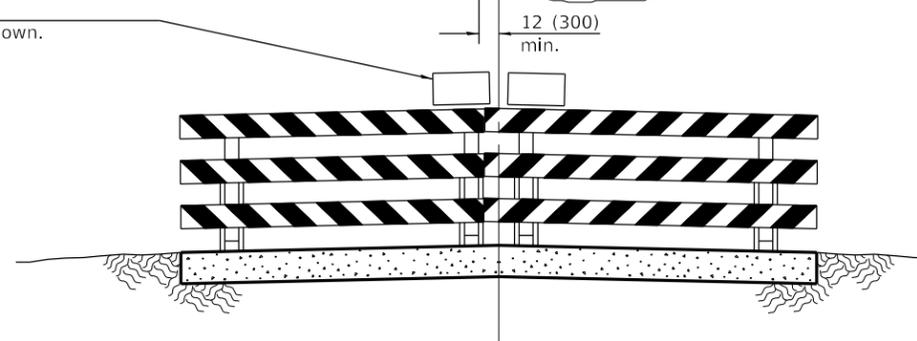
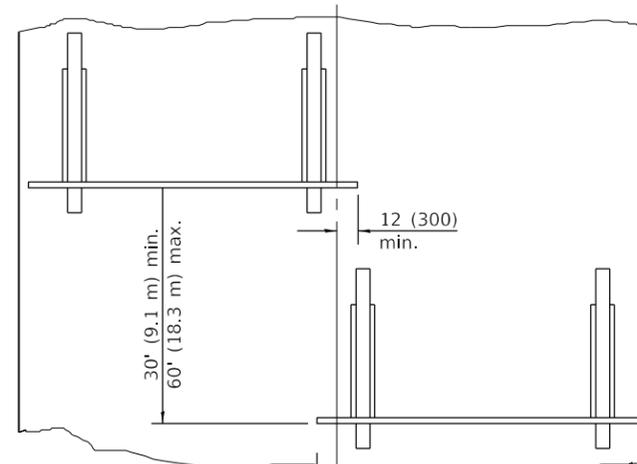
**STANDARD 780001-05**



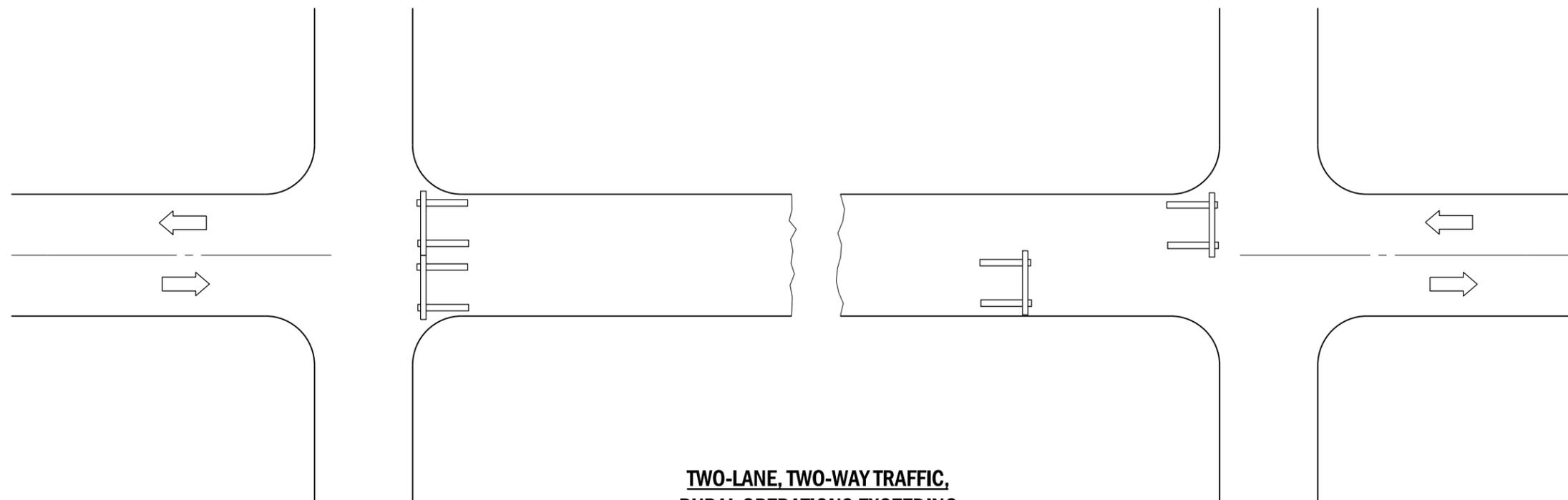
Type III Barricades with Standard Sign R11-2 or R11-4 mounted as shown.



Resident traffic and day labor force's equipment to use road shoulder for passing barricade.



Use when shoulders are too narrow for passage of traffic.



**TWO-LANE, TWO-WAY TRAFFIC,  
RURAL OPERATIONS EXCEEDING  
ONE DAYLIGHT PERIOD**

**GENERAL NOTES**

Type III barricades to be width of pavement only.

Reflectorized striping shall appear on both sides of barricades. Barricades shall be positioned so that stripes slope downward toward the side on which traffic is to pass.

Although not shown, advance warning signs with minimum dimensions of 36x36 (900x900) and black legends on orange reflectorized backgrounds shall be utilized where needed.

This case is for use on rural local roads where the local authority considers this protection to be appropriate for the specific job conditions.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-98	Rev. "R11-1" to "R11-4".
	Rev. 4th General Note.

**TRAFFIC CONTROL DEVICES -  
DAY LABOR CONSTRUCTION**

**STANDARD B.L.R. 17-4**

Illinois Department of Transportation

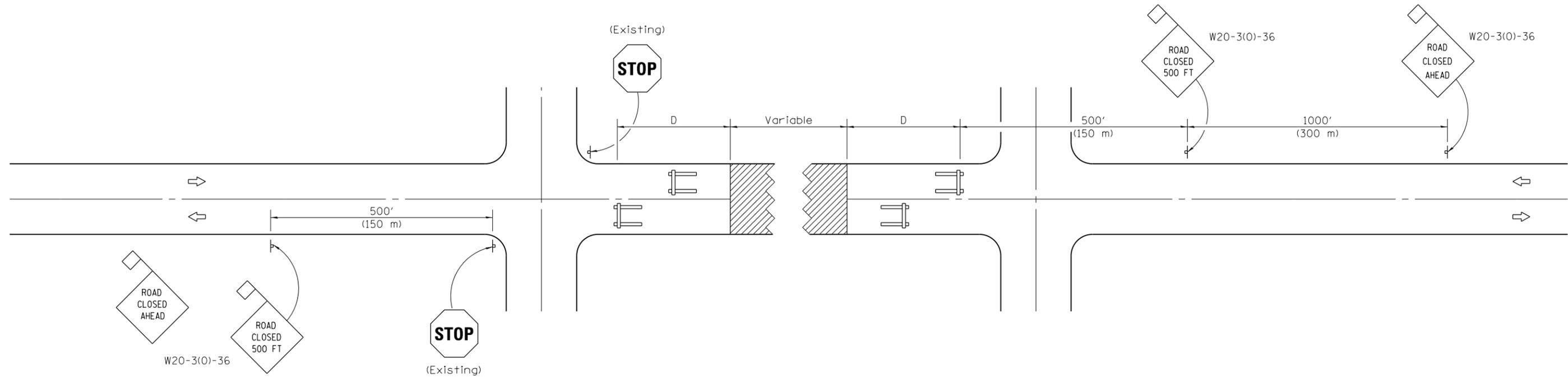
PASSED January 1, 2009  
*Charles J. Ringwald*  
 ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2009  
*Ken E. Han*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**CONDITION I  
APPROACH TRAFFIC STOPPED**

**CONDITION II  
APPROACH TRAFFIC  
DOES NOT STOP**



**SYMBOLS**

-  Work area
-  Type III Barricade
-  Sign with 18x18 (450x450) min. orange flag attached

**GENERAL NOTES**

Type III Barricades and R11-4-6030 signs shall be positioned as shown in the "Road Closed To All Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' (600 m), an additional set of barricades and R11-4-6030 shall be placed at each end of the work area.

Two Type A Low Intensity Flashing Lights shall be used on each approach in advance of the work area. One light shall be installed above each barricade. If only one barricade is required, the other light shall be installed above the first advance warning sign.

All warning signs shall have minimum dimensions of 36 x 36 (900 x 900) and have a black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

Longitudinal dimensions may be adjusted to fit field conditions.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-12	Omitted two notes from GENERAL NOTES.
1-1-09	Revised General Notes and switched units to English (metric).

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)**

**STANDARD B.L.R. 22-7**

Illinois Department of Transportation

APPROVED                      January 1, 2012  
*Donell Lewis*  
 ENGINEER OF LOCAL ROADS AND STREETS

APPROVED                      January 1, 2012  
*Scott Esdaile*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97