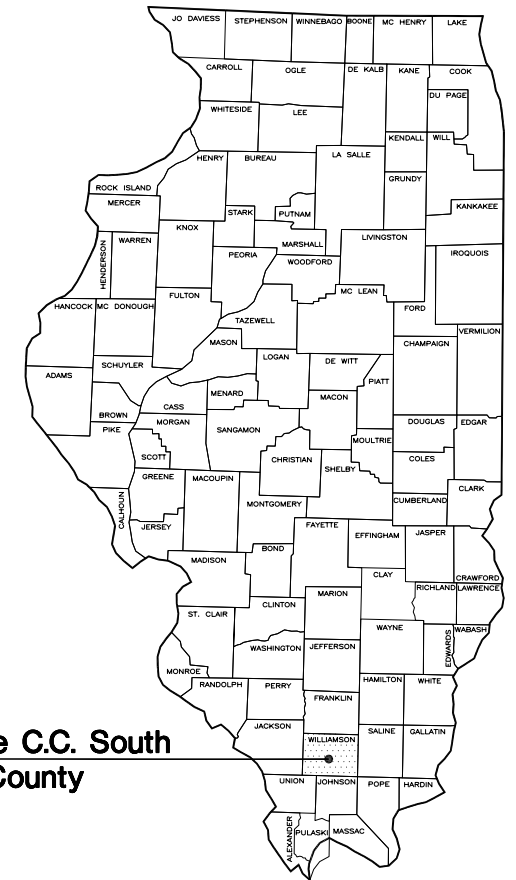


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands

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

Morgan Mine C.C. South
Reclamation Project
AML-GWmE-0711
Williamson County
1LR

Certified Copy



Morgan Mine C.C. South
Williamson County

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 9:00 A.M. THURSDAY, OCTOBER 28TH, 2010. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE ENTRANCE OF THE PROJECT SITE, AT THE INTERSECTION OF SKYLINE DRIVE AND THE SITE ACCESS ROAD, TOWNSHIP ROAD #253A, APPROXIMATELY 1¼ MILES NORTH OF ILLINOIS ROUTE 13.

SCHEDULE OF DRAWINGS:

- 1. Cover Sheet
- 2. Summary of Quantities/General Notes/Location Map
- 3. Site Layout/Survey Control Point Data
- 4.-7. Existing Conditions
- 8.-11. Proposed Conditions
- 12.-24. Cross Sections
- 25. Details

I.D.O.T. Standard 280001-05

Prepared By IDNR Staff

Approved for Bidding:

 Joseph R. Angleton, Director
 Office of Mines and Minerals

Approved By:

 Greg Pinto, Acting Manager
 AML Division

Approved By:

 Lawrence L. Lewis, P.E.
 IL Licensed Professional Engineer
 No. 0062-038880

Summary of Quantities

| # | Item | Section | Quantity | Unit | Rates/Remarks |
|----|---|----------|----------|-------|--|
| 1 | Special Clearing | 201 | 1 | L.S. | |
| 2 | Earth Excavation | 202 | 97,926 | C.Y. | Compaction per Section 205 |
| 3 | Mine Refuse Excavation | 202 | 10,079 | C.Y. | Compaction per Section 205 |
| 4 | Furnished Excavation | 204 | 8,432 | C.Y. | Compaction per Section 205 |
| 5 | Scarifying Roadway | 212 | 1 | L.S. | |
| 6 | Seeding | 250 | 49.0 | Acre | |
| 7 | Agricultural Ground Limestone | 250 | 890 | Ton | Baseline A - 5 Tons/Acre Baseline B - 20 Tons/Acre |
| 8 | Nitrogen Fertilizer Nutrient | 250 | 9,800 | Pound | See Schedule Below |
| 9 | Phosphorus Fertilizer Nutrient | 250 | 7,050 | Pound | |
| 10 | Potassium Fertilizer Nutrient | 250 | 18,400 | Pound | |
| 11 | Mulch Method 2, Procedure 1 | IDOT 251 | 49.0 | Acre | 2 Tons/Acre |
| 12 | Mine Refuse Treatment - Limestone | 255 | 6,600 | Ton | Baseline A - 800 Tons, 200 Tons/Acre Baseline B - 5,800 Tons, 200 Tons/Acre |
| 13 | Mowing | 258 | 49.0 | Acre | |
| 14 | Temporary Ditch Checks | 280 | 8 | Each | Hay or Straw Bales See Detail E-25 |
| 15 | Perimeter Erosion Barrier | 280 | 860 | Foot | Silt Fence Required IDOT Std. 280001-05 |
| 16 | Inlet and Pipe Protection | 280 | 4 | Each | Silt Fence Required. IDOT Std. 280001-05 |
| 17 | Stone Riprap, A-3 | IDOT 281 | 267 | Ton | |
| 18 | Special Excelsior Blanket | 286 | 14,351 | S.Y. | 8 Feet Wide Strips |
| 19 | Aggregate Base Course, Type B, CA-6 | IDOT 351 | 5,283 | Ton | 4" Lifts, 8" Total Thickness |
| 20 | Removal of Existing Structures | 501 | 1 | L.S. | |
| 21 | Pipe Culvert 12", Polyethylene w/ Smooth Interior, Type 1 | IDOT 542 | 200 | Foot | |
| 22 | Pipe Culvert 18", Polyethylene w/ Smooth Interior, Type 1 | IDOT 542 | 150 | Foot | |
| 23 | Acid Water Treatment - Hydrated Lime | 612 | 1 | Ton | Impoundment #1 |
| 24 | Dewatering Impoundments-Impoundment #2 | 614 | 1 | L.S. | |
| 25 | Barbed Wire Fence | 665 | 400 | Foot | |
| 26 | Mobilization (Max. of 6 % of Bid) | 671 | 1 | L.S. | |

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 and restored to original or better condition at the completion of work by the contractor. Access roads to the site as designated in 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 feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special Provisions.

TREE REMOVAL-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions. Tree clearing shall be completed prior to April 1, 2011.

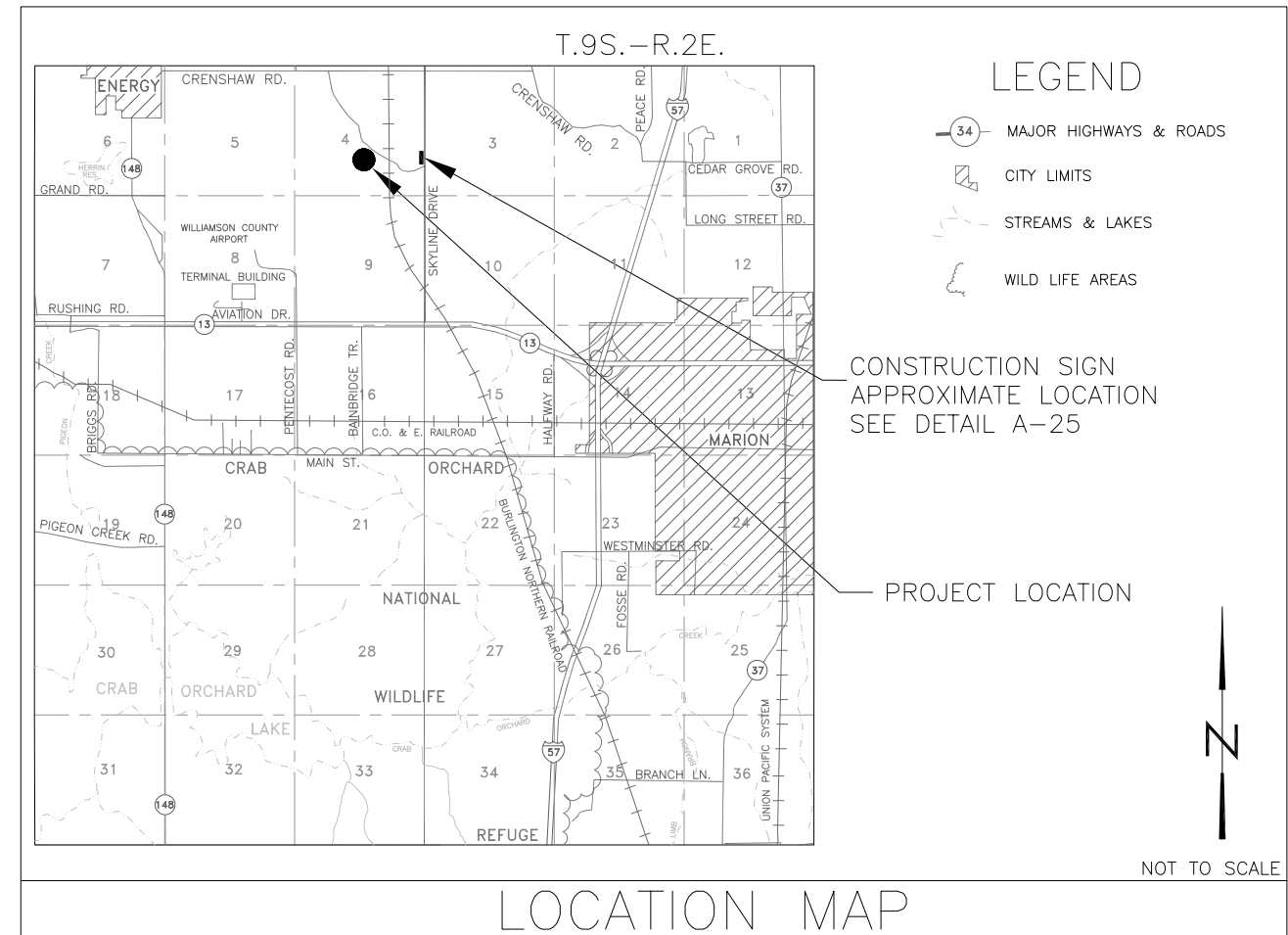
ACID WATER TREATMENT-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

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.

MINE REFUSE TREATMENT- After mine refuse has been graded to the subgrade shown in the plans, agricultural ground limestone shall be uniformly spread at the rate specified in the plans. A 3 inch layer of soil shall then be spread over the mine refuse treatment area and blended to a depth of 6 inches with an industrial offset disk approved by the engineer. Treated areas shall then be covered with 33 inches of soil.



Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

| ITEM (unit) | FALL 2011 AUG. 20 - SEPT. 30 | | SPRING 2012 APR. 20 - MAY 15 | | SPRING 2012 MAY 15 - JUN. 15 | | TOTAL QUANTITY |
|--|---------------------------------|---------------------|---------------------------------|--------------------|--|------------|----------------|
| | Baseline A | Baseline B | Baseline A | Baseline B | Baseline A | Baseline B | |
| SEEDING (acres) | 6.0 | 43.0 | | | | | 49.0 |
| AGRICULTURAL GROUND LIMESTONE (tons) | 30 5 T/A | 860 20 T/A | | | Actual Date to be Approved by Engineer | | 890 |
| NITROGEN FERTILIZER NUTRIENT (pounds) | 600 100 Lb./A | 600 100 Lb./A | 4,300 100 Lb./A | 4,300 100 Lb./A | | | 9,800 |
| PHOSPHOROUS FERTILIZER NUTRIENT (pounds) | 600 100 Lb./A | 6,450 150 Lb./A | | | | | 7,050 |
| POTASSIUM FERTILIZER NUTRIENT (pounds) | 1,200 200 Lb./A | 17,200 400 Lb./A | | | | | 18,400 |
| MULCH, METHOD 2 PROCEDURE 1 (acre) | 6.0 2 T/A | 43.0 2 T/A | | | | | 49.0 |
| MOWING (acres) | | | | | 6.0 | 43.0 | 49.0 |

State of Illinois
Department of Natural Resources

Morgan Mine C.C. South
Reclamation Project
AML-GWmE-0711
Williamson County

Drawn By : _____ Date : 09-21-10
Checked By : _____

Summary of Quantities/
General Notes/Location Map
Sheet 2 of 25

| CP# | ELEV. | NORTHING | EASTING | DESCRIPTION |
|-----|--------|-----------|-----------|-------------------|
| 35 | 468.47 | 399057.78 | 796142.20 | MAG PAINTED |
| 37 | 441.19 | 400686.13 | 796154.95 | MAG PAINTED |
| 43 | 435.61 | 399540.91 | 794700.64 | GIN SPIKE RECOVER |
| 45 | 450.11 | 400791.07 | 793554.71 | IRS/K PAINTED |
| 47 | 476.77 | 399253.76 | 790337.97 | IRS/K TYVEK PANEL |

| TRAVERSE LAYOUT DATA | | | | |
|----------------------|------------------|----------------------|------------------------|--|
| BASELINE NAME | EARTH EX. (C.Y.) | FURNISHED EX. (C.Y.) | MINE REFUSE EX. (C.Y.) | COMMENTS |
| BASELINE A | 0 | 8,432 | 0 | COMPACTION ACCORDING WITH SECTION 205. |
| BASELINE B | 97,926 | 0 | 10,079 | COMPACTION ACCORDING WITH SECTION 205. |
| PROJECT TOTAL | 97,926 | 8,432 | 10,079 | COMPACTION ACCORDING WITH SECTION 205. |

BARBED WIRE FENCE TO BE REMOVED AND REPLACED, 400 FT. SEE NOTE #8

SPECIAL EXCELSIOR BLANKET 1,214' L X 8' W (1,079 S.Y.)

DEWATERING IMPOUNDMENTS, IMPOUNDMENT #2, IN ACCORDANCE WITH SECTION 614 SURFACE WATER ELEVATION: 474.6 ESTIMATED VOLUME: 0.5 MILLION GALLONS pH: 2.96, ACIDITY=347.2 (04-22-09)

SPECIAL EXCELSIOR BLANKET 124' L X 8' W (110 S.Y.)

SPECIAL EXCELSIOR BLANKET 1,530' L X 8' W (1,360 S.Y.)

SPECIAL EXCELSIOR BLANKET 2,107' L X 8' W (1,873 S.Y.)

GENERAL PROPOSED MINE REFUSE DISPOSAL AREA

GENERAL PROPOSED EARTH EXCAVATION AREA SECTION 205

PERIMETER EROSION BARRIER SILT FENCE (494 FEET)

SPECIAL EXCELSIOR BLANKET 69' L X 8' W (60 S.Y.)

SPECIAL EXCELSIOR BLANKET 121' L X 8' W (108 S.Y.)

SPECIAL EXCELSIOR BLANKET 155' L X 8' W (138 S.Y.)

SPECIAL EXCELSIOR BLANKET 767' L X 8' W (682 S.Y.)

SPECIAL EXCELSIOR BLANKET 655' L X 8' W (582 S.Y.)

PERIMETER EROSION BARRIER SILT FENCE (146 FEET)

SPECIAL EXCELSIOR BLANKET 420' L X 8' W (373 S.Y.)

SPECIAL EXCELSIOR BLANKET 1,493' L X 8' W (1,328 S.Y.)

SPECIAL EXCELSIOR BLANKET 1,748' L X 8' W (1,554 S.Y.)

SPECIAL EXCELSIOR BLANKET 1,370' L X 8' W (1,218 S.Y.)

SPECIAL EXCELSIOR BLANKET 190' L X 8' W (169 S.Y.)

SPECIAL EXCELSIOR BLANKET 1,497' L X 8' W (1,331 S.Y.)

SPECIAL EXCELSIOR BLANKET 231' L X 8' W (205 S.Y.)

SPECIAL EXCELSIOR BLANKET 483' L X 8' W (429 S.Y.)

SPECIAL EXCELSIOR BLANKET 214' L X 8' W (190 S.Y.)

SPECIAL EXCELSIOR BLANKET 300' L X 8' W (267 S.Y.)

SPECIAL EXCELSIOR BLANKET 621' L X 8' W (552 S.Y.)

SPECIAL EXCELSIOR BLANKET 836' L X 8' W (743 S.Y.)

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 442.0 D.S.F.L. ELEVATION: 439.0

PROPOSED PIPE CULVERT, 18" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (75 FEET) U.S.F.L. ELEVATION: 430.5 D.S.F.L. ELEVATION: 429.0

PROPOSED PIPE CULVERT, 18" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (75 FEET) U.S.F.L. ELEVATION: 434.0 D.S.F.L. ELEVATION: 433.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (60 FEET) U.S.F.L. ELEVATION: 433.0 D.S.F.L. ELEVATION: 432.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

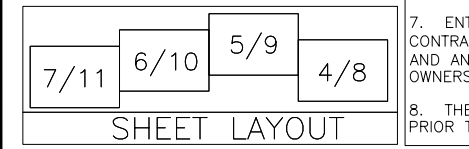
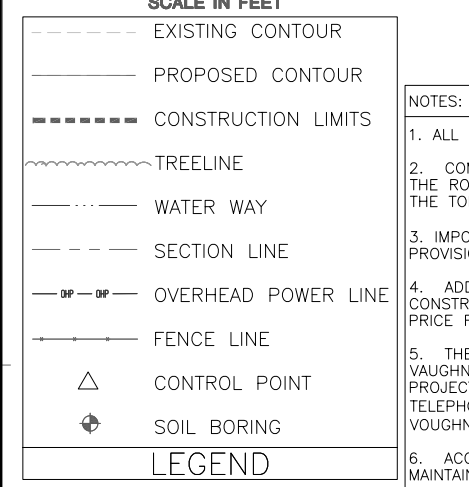
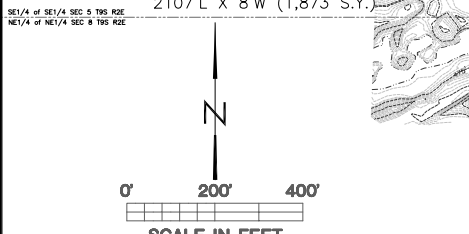
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PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

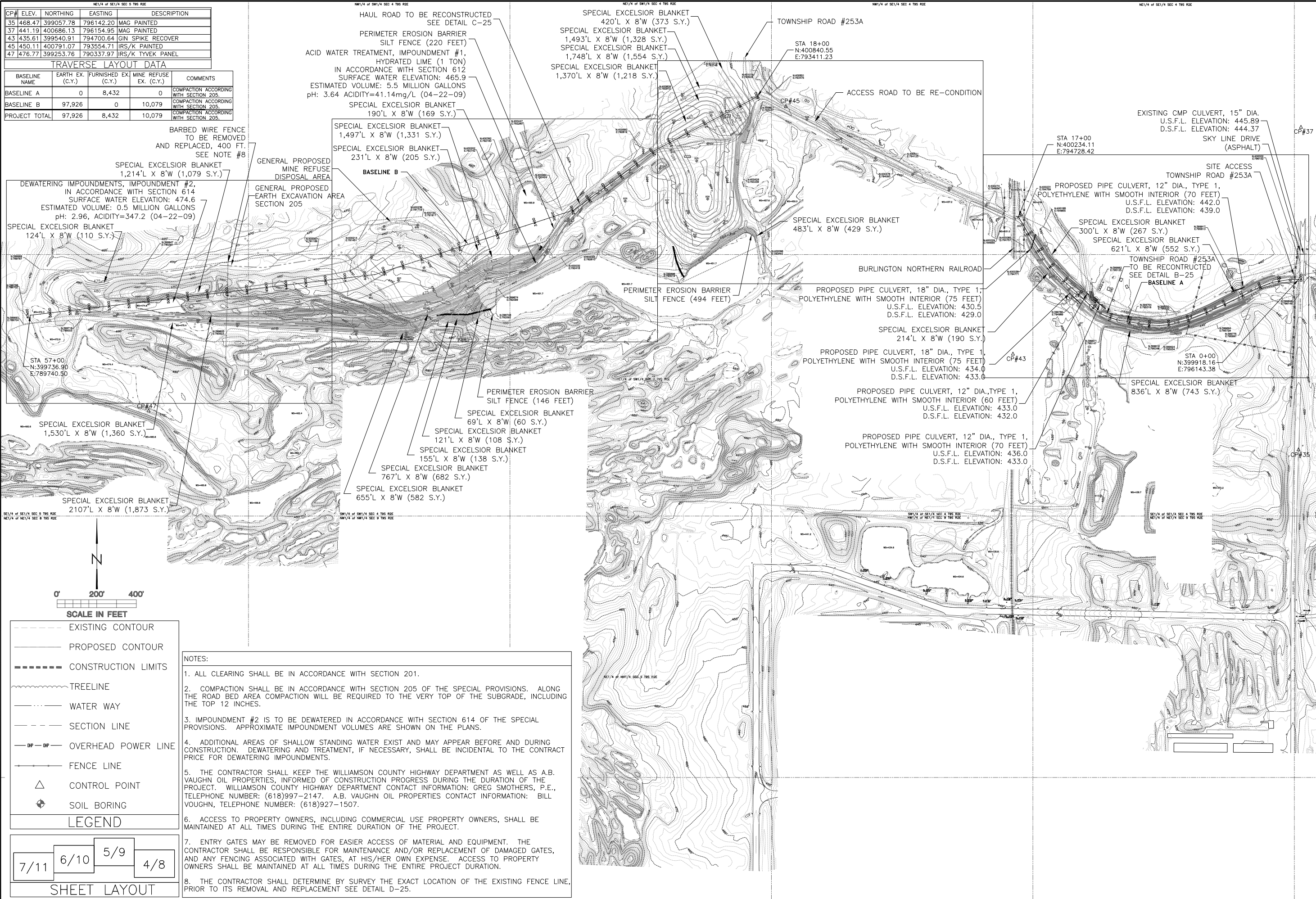
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PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1, POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET) U.S.F.L. ELEVATION: 436.0 D.S.F.L. ELEVATION: 433.0



- NOTES:
- ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201.
 - COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS. ALONG THE ROAD BED AREA COMPACTION WILL BE REQUIRED TO THE VERY TOP OF THE SUBGRADE, INCLUDING THE TOP 12 INCHES.
 - IMPOUNDMENT #2 IS TO BE DEWATERED IN ACCORDANCE WITH SECTION 614 OF THE SPECIAL PROVISIONS. APPROXIMATE IMPOUNDMENT VOLUMES ARE SHOWN ON THE PLANS.
 - ADDITIONAL AREAS OF SHALLOW STANDING WATER EXIST AND MAY APPEAR BEFORE AND DURING CONSTRUCTION. DEWATERING AND TREATMENT, IF NECESSARY, SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR DEWATERING IMPOUNDMENTS.
 - THE CONTRACTOR SHALL KEEP THE WILLIAMSON COUNTY HIGHWAY DEPARTMENT AS WELL AS A.B. VAUGHN OIL PROPERTIES, INFORMED OF CONSTRUCTION PROGRESS DURING THE DURATION OF THE PROJECT. WILLIAMSON COUNTY HIGHWAY DEPARTMENT CONTACT INFORMATION: GREG SMOTHERS, P.E., TELEPHONE NUMBER: (618)997-2147. A.B. VAUGHN OIL PROPERTIES CONTACT INFORMATION: BILL VOUGHN, TELEPHONE NUMBER: (618)927-1507.
 - ACCESS TO PROPERTY OWNERS, INCLUDING COMMERCIAL USE PROPERTY OWNERS, SHALL BE MAINTAINED AT ALL TIMES DURING THE ENTIRE DURATION OF THE PROJECT.
 - ENTRY GATES MAY BE REMOVED FOR EASIER ACCESS OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND/OR REPLACEMENT OF DAMAGED GATES, AND ANY FENCING ASSOCIATED WITH GATES, AT HIS/HER OWN EXPENSE. ACCESS TO PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES DURING THE ENTIRE PROJECT DURATION.
 - THE CONTRACTOR SHALL DETERMINE BY SURVEY THE EXACT LOCATION OF THE EXISTING FENCE LINE, PRIOR TO ITS REMOVAL AND REPLACEMENT SEE DETAIL D-25.

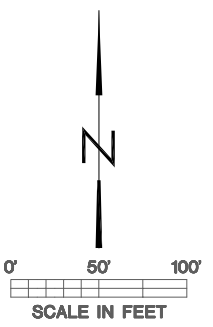
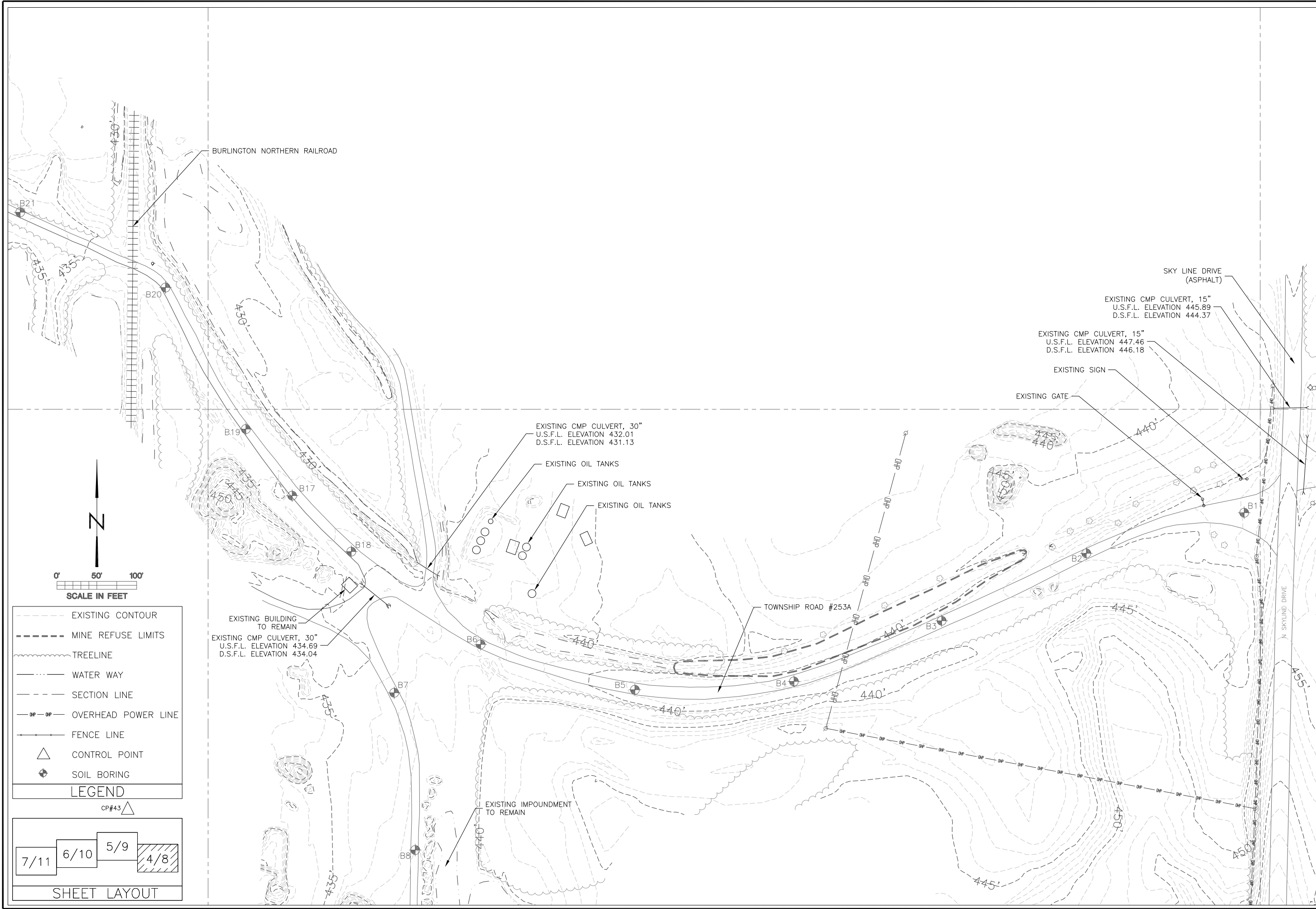


State of Illinois
Department of Natural Resources

Morgan Mine C.C. South
Reclamation Project
AML-GWmE-0711
Williamson County

Drawn By: OMA
Checked By:
Date: 08-06-10

Site Layout
Survey Control Point Data
Sheet 3 of 25



| | |
|--|---------------------|
| | EXISTING CONTOUR |
| | MINE REFUSE LIMITS |
| | TREELINE |
| | WATER WAY |
| | SECTION LINE |
| | OVERHEAD POWER LINE |
| | FENCE LINE |
| | CONTROL POINT |
| | SOIL BORING |

LEGEND

| | | | |
|--------------|--|--|--|
| | | | |
| SHEET LAYOUT | | | |

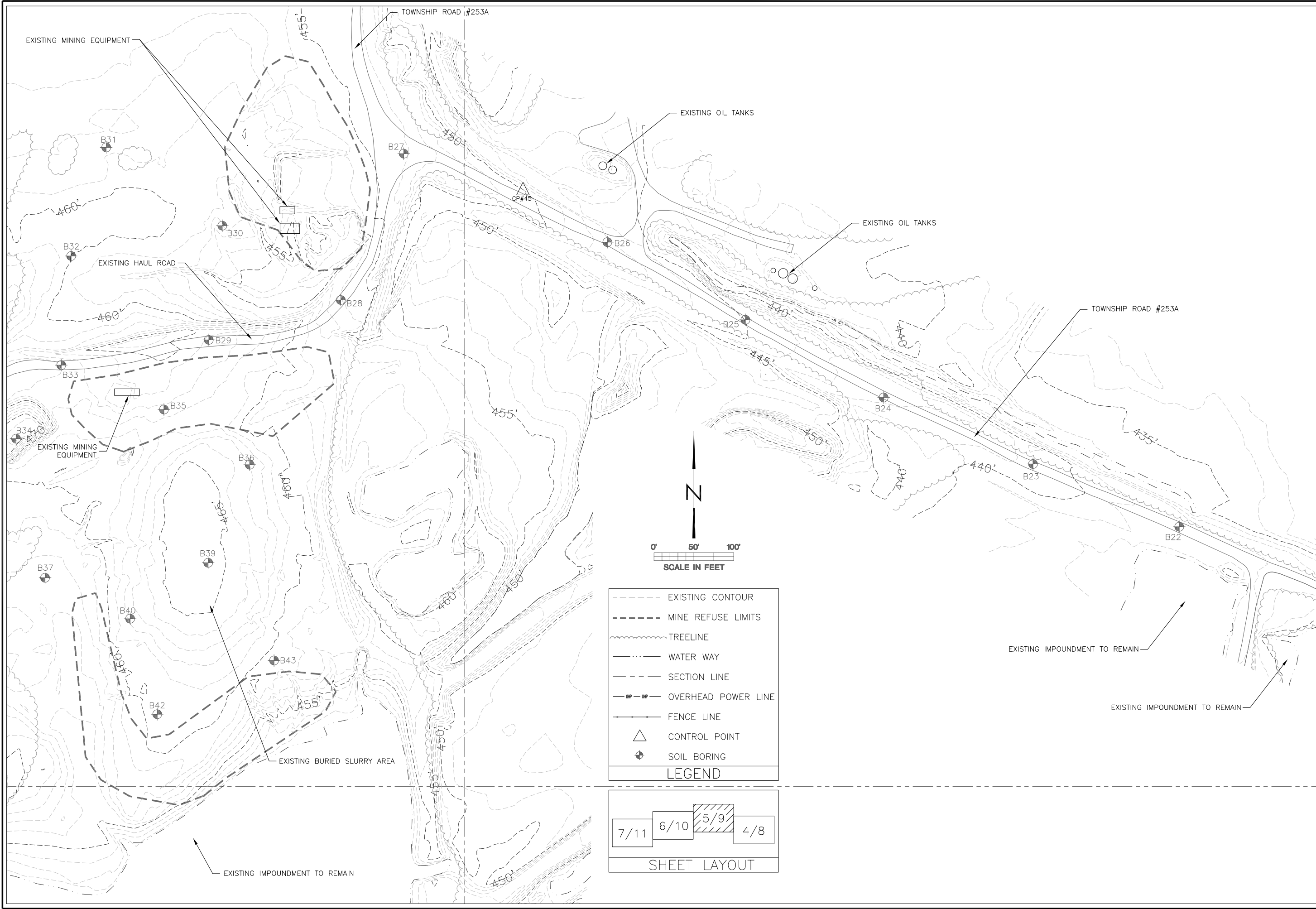
EXISTING BUILDING TO REMAIN
EXISTING CMP CULVERT, 30"
U.S.F.L. ELEVATION 434.69
D.S.F.L. ELEVATION 434.04

EXISTING CMP CULVERT, 30"
U.S.F.L. ELEVATION 432.01
D.S.F.L. ELEVATION 431.13

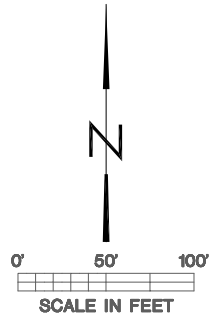
EXISTING CMP CULVERT, 15"
U.S.F.L. ELEVATION 447.46
D.S.F.L. ELEVATION 446.18

EXISTING CMP CULVERT, 15"
U.S.F.L. ELEVATION 445.89
D.S.F.L. ELEVATION 444.37

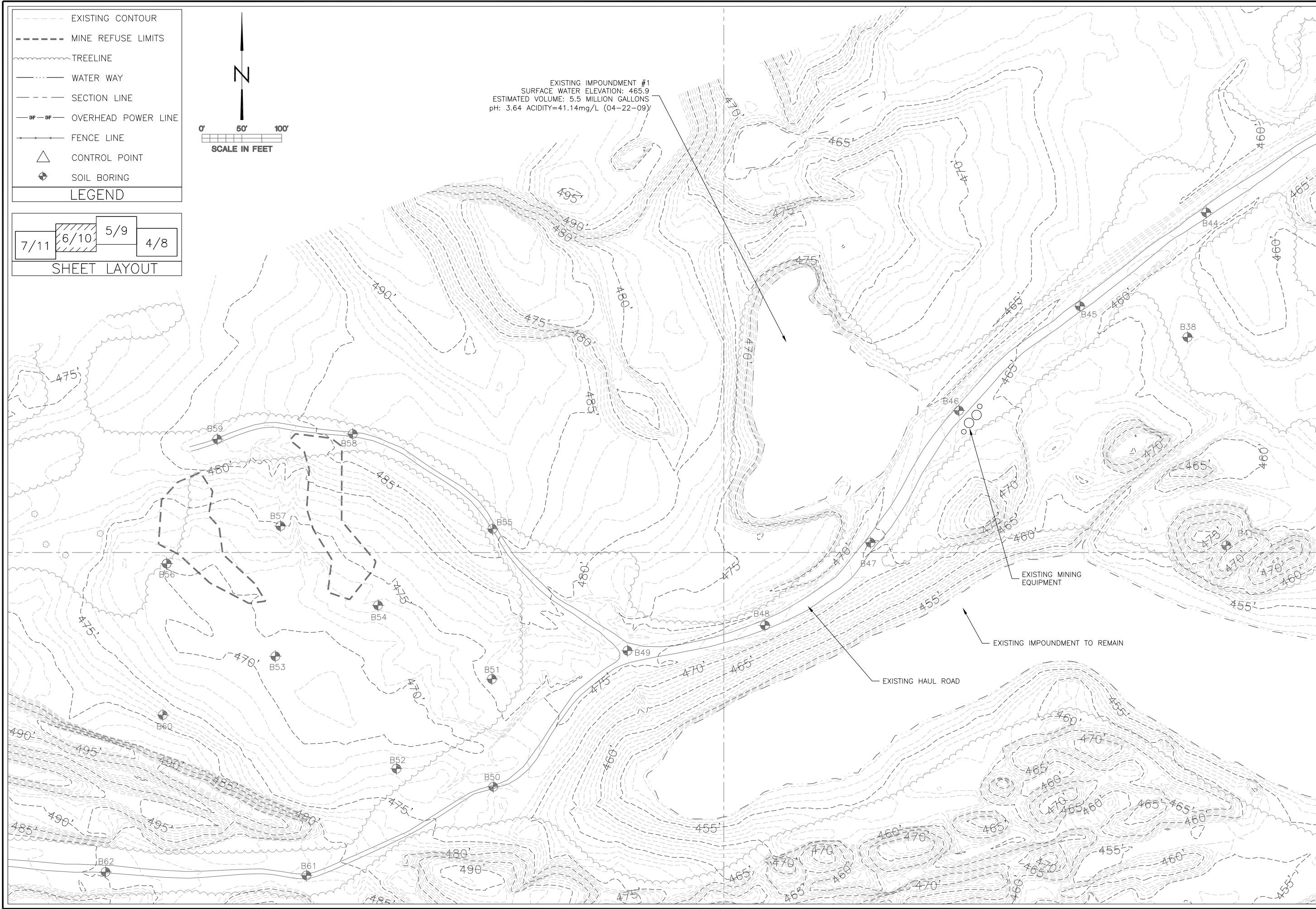
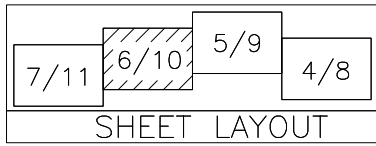
EXISTING IMPOUNDMENT TO REMAIN



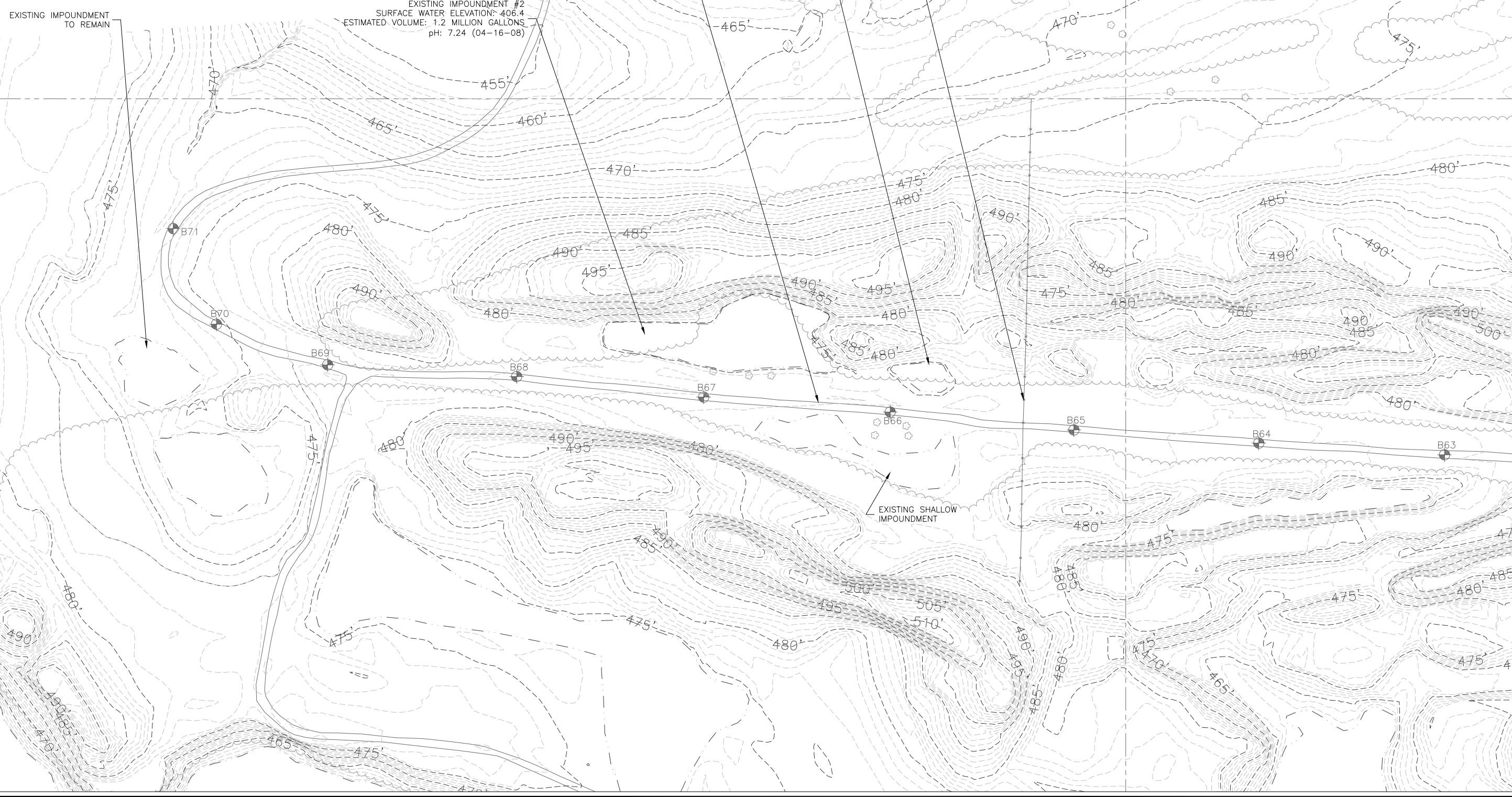
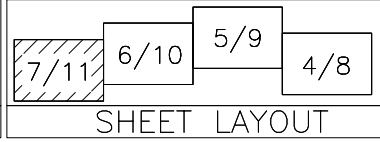
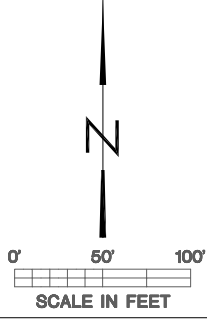
- EXISTING CONTOUR
- MINE REFUSE LIMITS
- ~ TREELINE
- WATER WAY
- SECTION LINE
- OVERHEAD POWER LINE
- FENCE LINE
- △ CONTROL POINT
- ⊕ SOIL BORING



EXISTING IMPOUNDMENT #1
 SURFACE WATER ELEVATION: 465.9
 ESTIMATED VOLUME: 5.5 MILLION GALLONS
 pH: 3.64 ACIDITY=41.14mg/L (04-22-09)



- EXISTING CONTOUR
- - - MINE REFUSE LIMITS
- ~~~~ TREELINE
- WATER WAY
- - - SECTION LINE
- - - OVERHEAD POWER LINE
- FENCE LINE
- △ CONTROL POINT
- ⊕ SOIL BORING



Drawn By: OMA Date: 08-05-10

Checked By: _____

| BASELINE A C LAYOUT DATA | |
|-----------------------------|---------|
| NORTHING | EASTING |
| 399917 | 796145 |
| 399917 | 796097 |
| 399903 | 796008 |
| 399869 | 795924 |
| 399758 | 795693 |
| 399717 | 795593 |
| 399694 | 795513 |
| 399684 | 795441 |
| 399696 | 795330 |
| 399716 | 795221 |
| 399749 | 795138 |
| 399790 | 795086 |
| 399899 | 794970 |
| 399969 | 794902 |
| 400143 | 794781 |
| 400178 | 794759 |

ACCESS ROAD RE-CONDITION
AGGREGATE BASE COURSE, TYPE B, CA-6, (784 TONS)
LENGTH=1,400 FT., WIDTH=12 FT., 8" THICKNESS
SEE TABLE FOR C LAYOUT DATA, SHEET #9

BURLINGTON NORTHERN RAILROAD
THE CONTRACTOR IS NOT TO PERFORM ANY
WORK WITH IN THE RAILROAD RIGHT OF WAY.
THE CONTRACTOR SHALL USE EXTREME CAUTION
WHEN USING RAILROAD CROSSING.

PROPOSED PIPE CULVERT, 18" DIA., TYPE 1,
POLYETHYLENE WITH SMOOTH INTERIOR (75 FEET)
U.S.F.L. ELEVATION: 430.5
D.S.F.L. ELEVATION: 429.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1,
POLYETHYLENE WITH SMOOTH INTERIOR (60 FEET)
U.S.F.L. ELEVATION: 433.0
D.S.F.L. ELEVATION: 432.0

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1,
POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET)
U.S.F.L. ELEVATION: 442.0
D.S.F.L. ELEVATION: 439.0

CHANNEL A
STONE RIPRAP, A-3
(41 TONS)
SEE DETAIL F-25

PROPOSED PIPE CULVERT, 12" DIA., TYPE 1,
POLYETHYLENE WITH SMOOTH INTERIOR (70 FEET)
U.S.F.L. ELEVATION: 436.0
D.S.F.L. ELEVATION: 433.0

TOWNSHIP ROAD #253A TO BE RECONSTRUCTED
SCARIFYING ROADWAY (1 L.S.)
AGGREGATE BASE COURSE, TYPE B, CA-6, (1,587 TONS)
LENGTH=1,700 FT., WIDTH=20 FT., 8" THICKNESS
SEE TABLE FOR C LAYOUT DATA
SEE DETAIL B-25

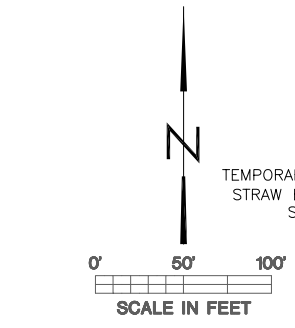
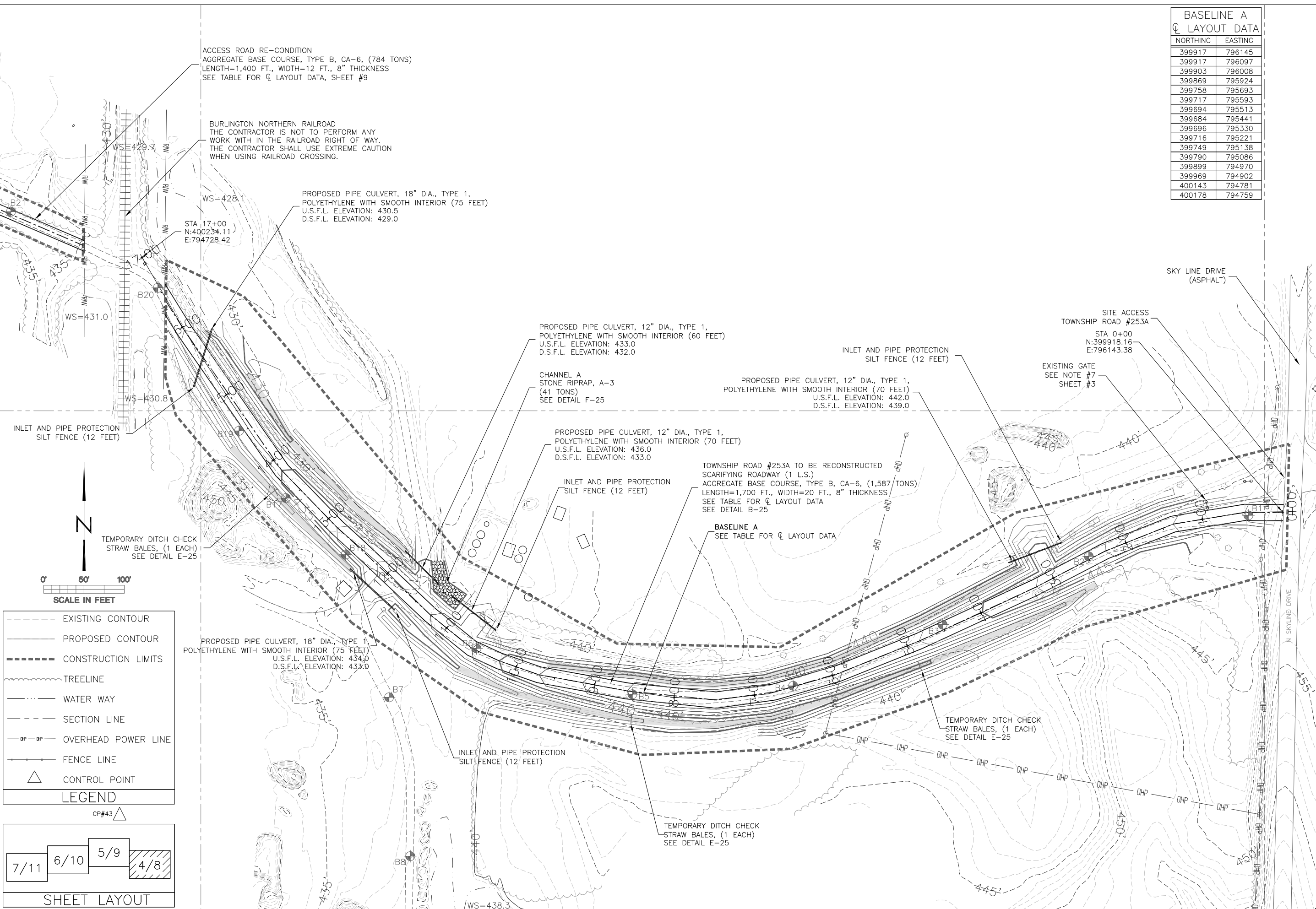
BASELINE A
SEE TABLE FOR C LAYOUT DATA

PROPOSED PIPE CULVERT, 18" DIA., TYPE 1,
POLYETHYLENE WITH SMOOTH INTERIOR (75 FEET)
U.S.F.L. ELEVATION: 434.0
D.S.F.L. ELEVATION: 433.0

INLET AND PIPE PROTECTION
SILT FENCE (12 FEET)

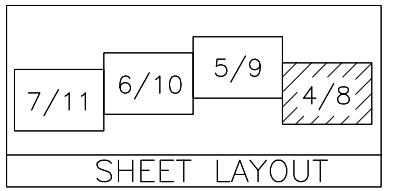
TEMPORARY DITCH CHECK
STRAW BALES, (1 EACH)
SEE DETAIL E-25

TEMPORARY DITCH CHECK
STRAW BALES, (1 EACH)
SEE DETAIL E-25



| | |
|--|---------------------|
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | CONSTRUCTION LIMITS |
| | TREELINE |
| | WATER WAY |
| | SECTION LINE |
| | OVERHEAD POWER LINE |
| | FENCE LINE |
| | CONTROL POINT |

LEGEND

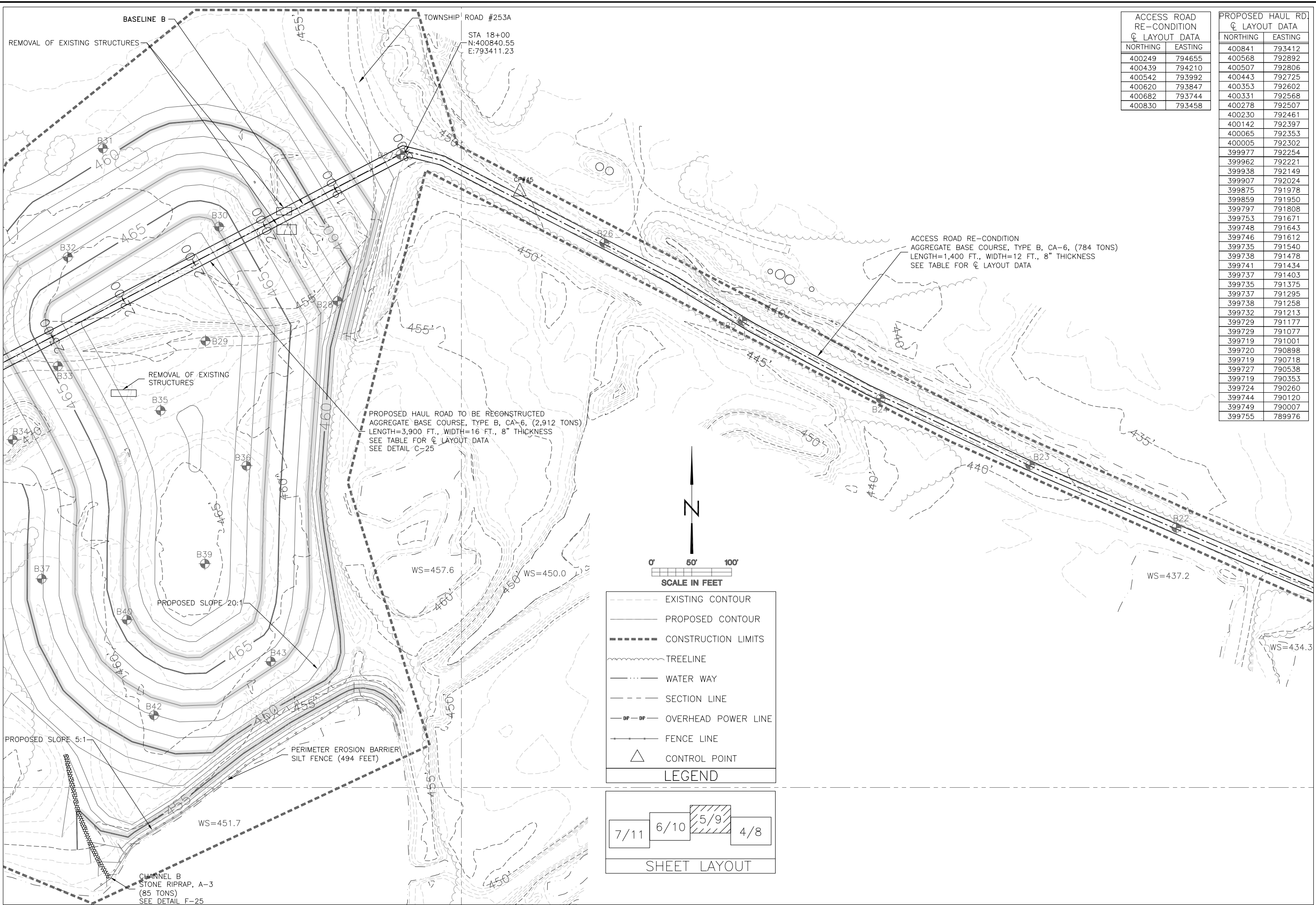


State of Illinois
Department of Natural Resources

Morgan Mine C.C. South
Reclamation Project
AML-GWmE-0711
Williamson County

Drawn By: OMA
Checked By: _____
Date: 08-05-10

Proposed Conditions
Sheet 8 of 25

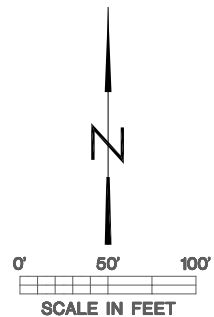


| ACCESS ROAD RE-CONDITION C LAYOUT DATA | |
|---|---------|
| NORTHING | EASTING |
| 400249 | 794655 |
| 400439 | 794210 |
| 400542 | 793992 |
| 400620 | 793847 |
| 400682 | 793744 |
| 400830 | 793458 |

| PROPOSED HAUL RD. C LAYOUT DATA | |
|------------------------------------|---------|
| NORTHING | EASTING |
| 400841 | 793412 |
| 400568 | 792892 |
| 400507 | 792806 |
| 400443 | 792725 |
| 400353 | 792602 |
| 400331 | 792568 |
| 400278 | 792507 |
| 400230 | 792461 |
| 400142 | 792397 |
| 400065 | 792353 |
| 400005 | 792302 |
| 399977 | 792254 |
| 399962 | 792221 |
| 399938 | 792149 |
| 399907 | 792024 |
| 399875 | 791978 |
| 399859 | 791950 |
| 399797 | 791808 |
| 399753 | 791671 |
| 399748 | 791643 |
| 399746 | 791612 |
| 399735 | 791540 |
| 399738 | 791478 |
| 399741 | 791434 |
| 399737 | 791403 |
| 399735 | 791375 |
| 399737 | 791295 |
| 399738 | 791258 |
| 399732 | 791213 |
| 399729 | 791177 |
| 399729 | 791077 |
| 399719 | 791001 |
| 399720 | 790898 |
| 399719 | 790718 |
| 399727 | 790538 |
| 399719 | 790353 |
| 399724 | 790260 |
| 399744 | 790120 |
| 399749 | 790007 |
| 399755 | 789976 |

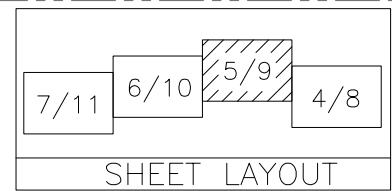
PROPOSED HAUL ROAD TO BE RECONSTRUCTED
 AGGREGATE BASE COURSE, TYPE B, CA-6, (2,912 TONS)
 LENGTH=3,900 FT., WIDTH=16 FT., 8" THICKNESS
 SEE TABLE FOR C LAYOUT DATA
 SEE DETAIL C-25

ACCESS ROAD RE-CONDITION
 AGGREGATE BASE COURSE, TYPE B, CA-6, (784 TONS)
 LENGTH=1,400 FT., WIDTH=12 FT., 8" THICKNESS
 SEE TABLE FOR C LAYOUT DATA



| | |
|--|---------------------|
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | CONSTRUCTION LIMITS |
| | TREELINE |
| | WATER WAY |
| | SECTION LINE |
| | OVERHEAD POWER LINE |
| | FENCE LINE |
| | CONTROL POINT |

LEGEND



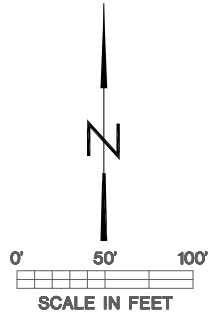
State of Illinois
Department of Natural Resources

Morgan Mine C.C. South
Reclamation Project
AML-GWmE-0711
Williamson County

Drawn By: OMA Date: 08-05-10
 Checked By: _____

Proposed Conditions
Sheet 9 of 25

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- ~ TREELINE
- WATER WAY
- SECTION LINE
- OVERHEAD POWER LINE
- FENCE LINE
- △ CONTROL POINT

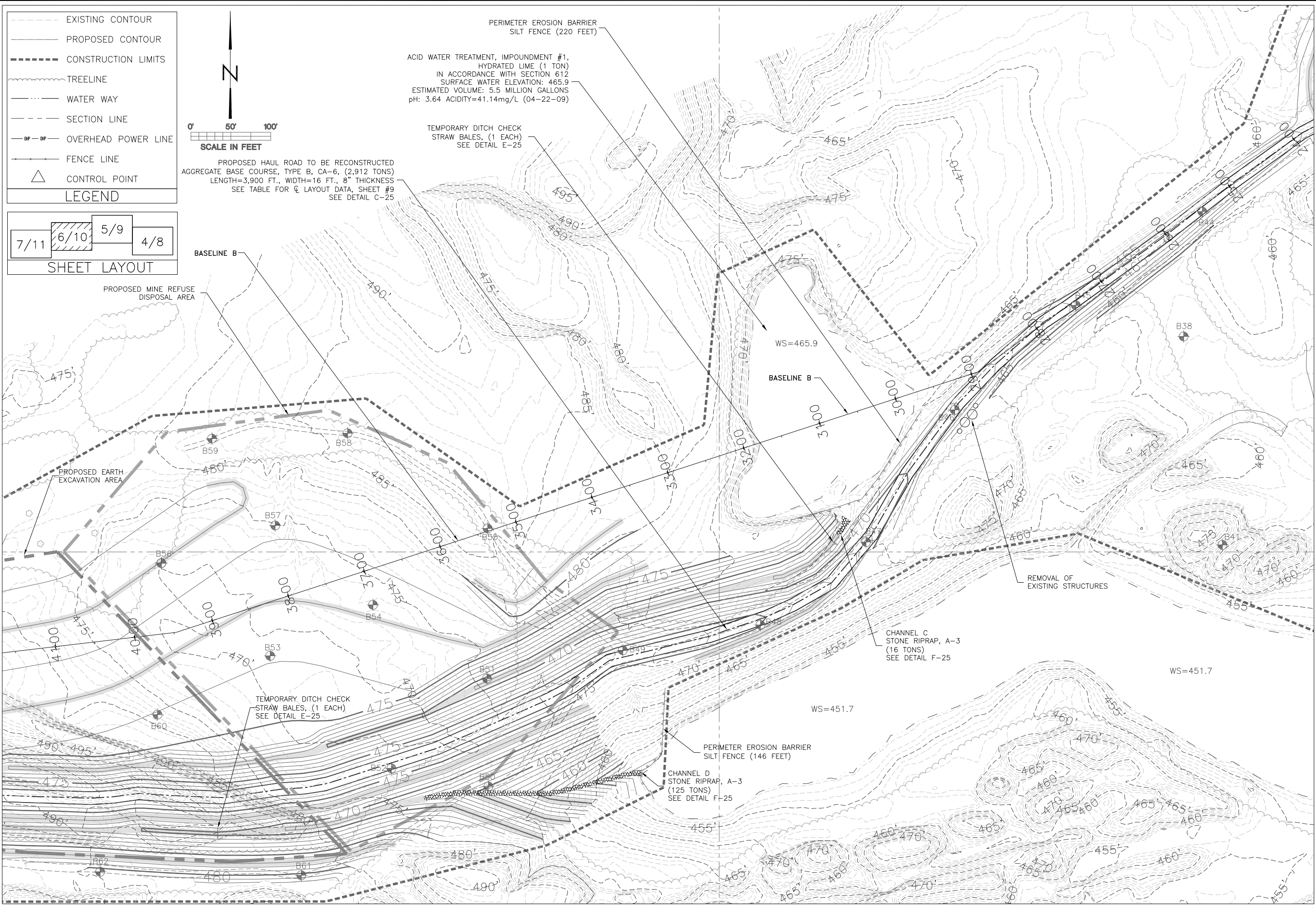
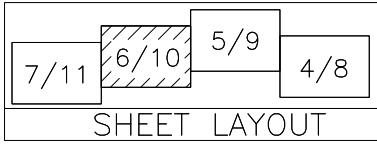


PROPOSED HAUL ROAD TO BE RECONSTRUCTED
 AGGREGATE BASE COURSE, TYPE B, CA-6, (2,912 TONS)
 LENGTH=3,900 FT., WIDTH=16 FT., 8" THICKNESS
 SEE TABLE FOR C LAYOUT DATA, SHEET #9
 SEE DETAIL C-25

PERIMETER EROSION BARRIER
 SILT FENCE (220 FEET)

ACID WATER TREATMENT, IMPOUNDMENT #1,
 HYDRATED LIME (1 TON)
 IN ACCORDANCE WITH SECTION 612
 SURFACE WATER ELEVATION: 465.9
 ESTIMATED VOLUME: 5.5 MILLION GALLONS
 pH: 3.64 ACIDITY=41.14mg/L (04-22-09)

TEMPORARY DITCH CHECK
 STRAW BALES, (1 EACH)
 SEE DETAIL E-25



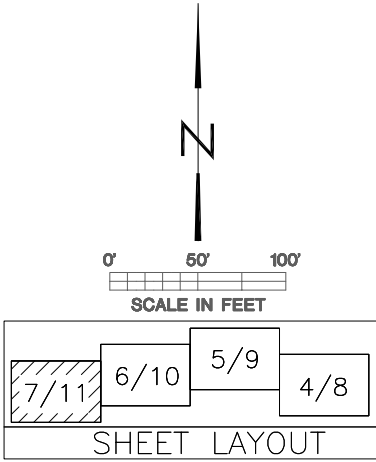
State of Illinois
Department of Natural Resources

Morgan Mine C.C. South
Reclamation Project
AML-GWmE-0711
Williamson County

Drawn By: OMA Date: 08-06-10
 Checked By: _____

Proposed Conditions
Sheet 10 of 25

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- ~ TREELINE
- WATER WAY
- - - SECTION LINE
- - - OVERHEAD POWER LINE
- FENCE LINE
- △ CONTROL POINT

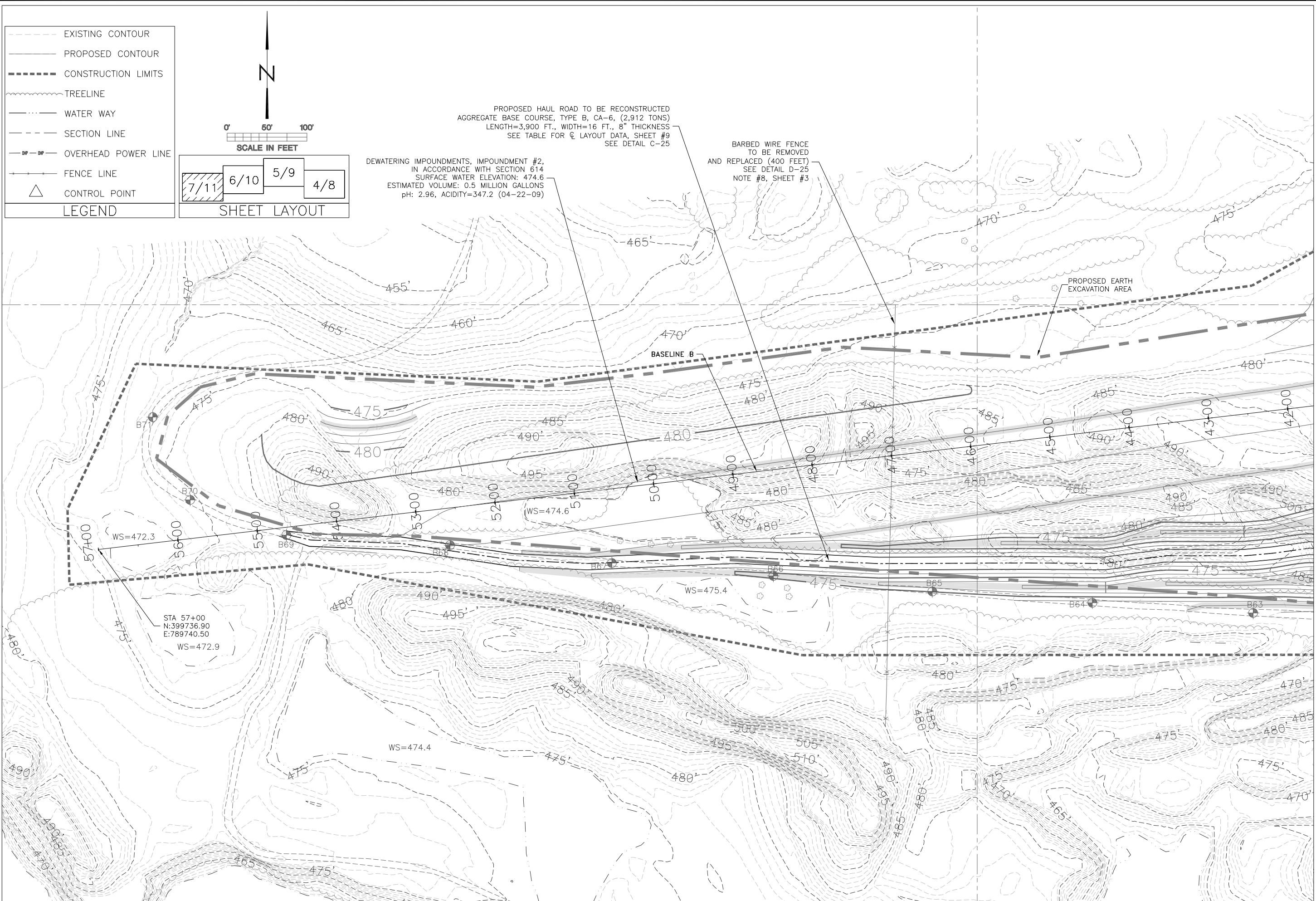


DEWATERING IMPOUNDMENTS, IMPOUNDMENT #2,
 IN ACCORDANCE WITH SECTION 614
 SURFACE WATER ELEVATION: 474.6
 ESTIMATED VOLUME: 0.5 MILLION GALLONS
 pH: 2.96, ACIDITY=347.2 (04-22-09)

PROPOSED HAUL ROAD TO BE RECONSTRUCTED
 AGGREGATE BASE COURSE, TYPE B, CA-6, (2,912 TONS)
 LENGTH=3,900 FT., WIDTH=16 FT., 8" THICKNESS
 SEE TABLE FOR C₁ LAYOUT DATA, SHEET #9
 SEE DETAIL C-25

BARBED WIRE FENCE
 TO BE REMOVED
 AND REPLACED (400 FEET)
 SEE DETAIL D-25
 NOTE #8, SHEET #3

PROPOSED EARTH
 EXCAVATION AREA







STA 57+00
 N:399736.90
 E:789740.50
 WS=472.9

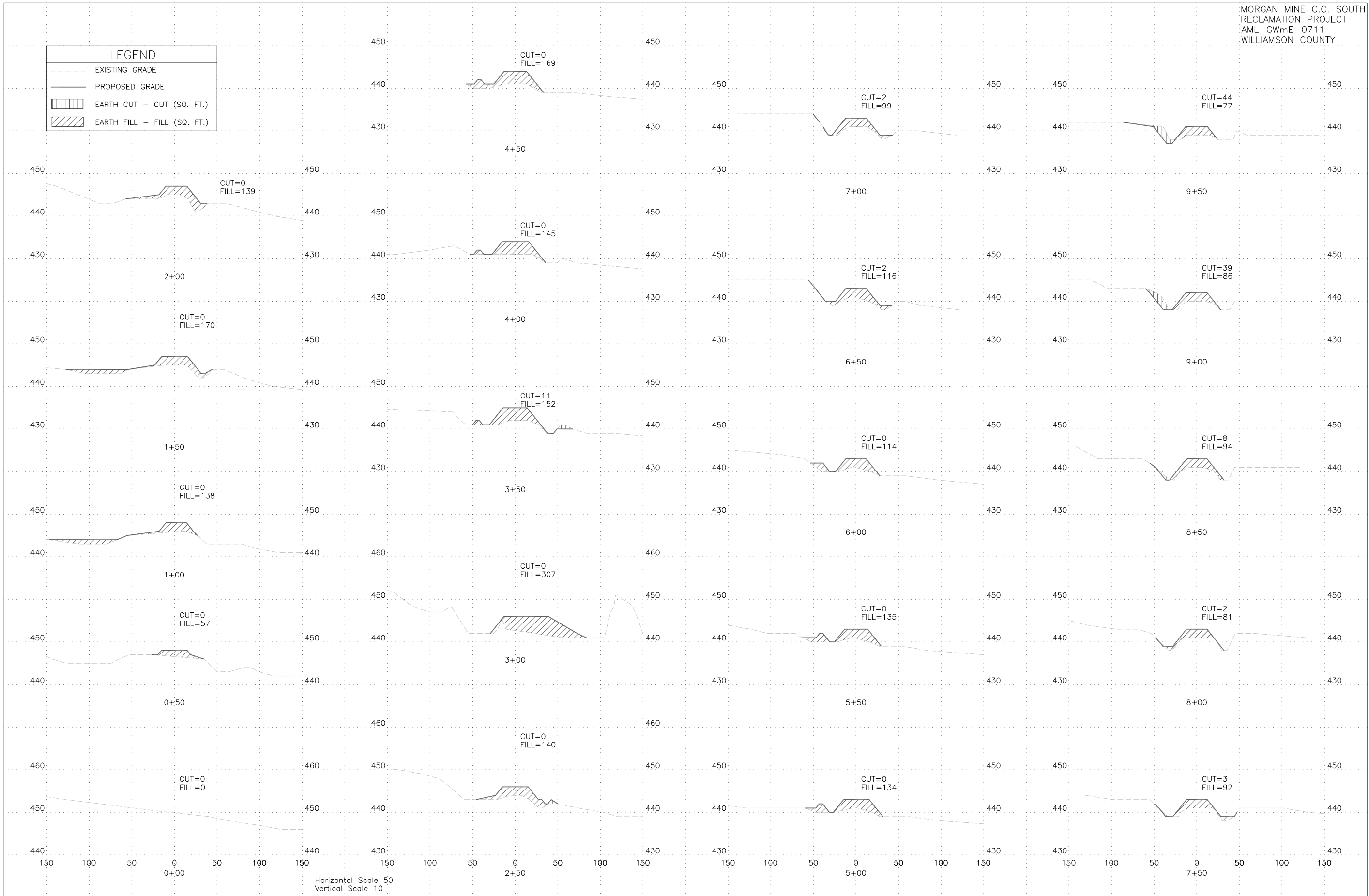
WS=474.6

WS=475.4

WS=474.4

Drawn By: OMA Date: 06-06-10
 Checked By: _____

| LEGEND | |
|---|-----------------------------|
|  | EXISTING GRADE |
|  | PROPOSED GRADE |
|  | EARTH CUT - CUT (SQ. FT.) |
|  | EARTH FILL - FILL (SQ. FT.) |



Horizontal Scale 50
 Vertical Scale 10

LEGEND

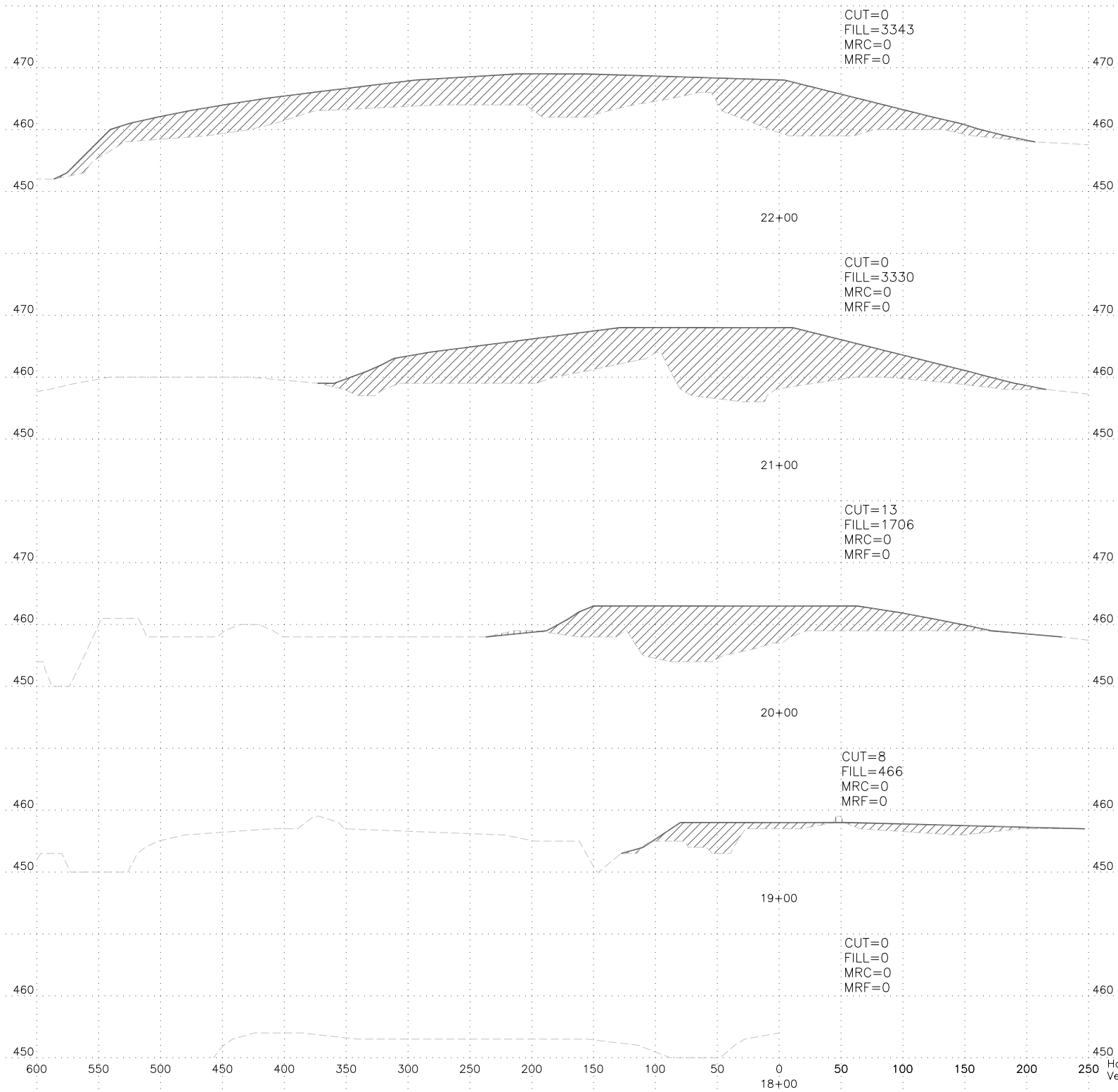
- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT - CUT (SQ. FT.)
- ▩ EARTH FILL - FILL (SQ. FT.)



Horizontal Scale 50
 Vertical Scale 10

LEGEND

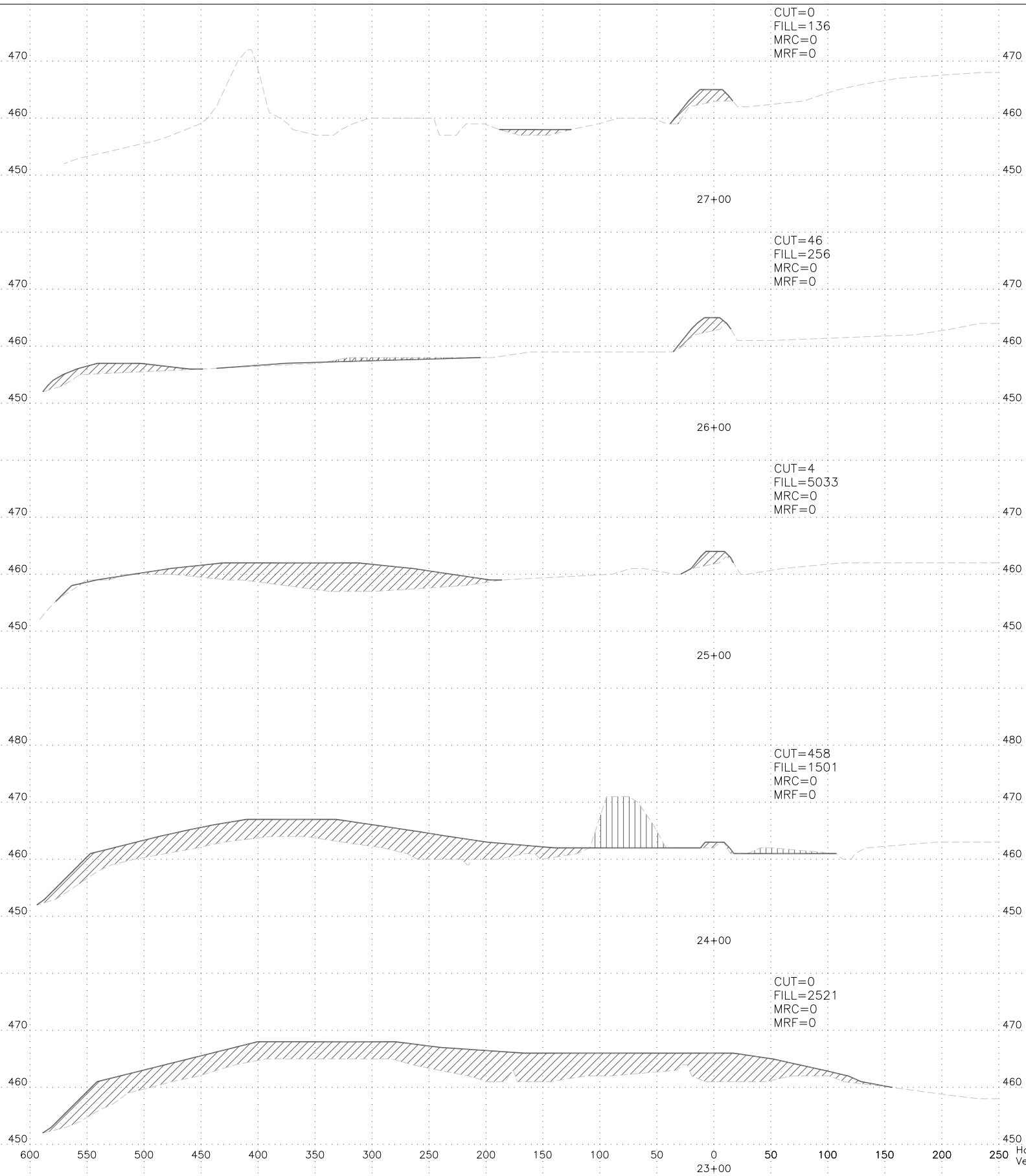
- EXISTING GRADE
- - - PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ▨ EARTH CUT - CUT (SQ. FT.)
- ▩ EARTH FILL - FILL (SQ. FT.)
- MINE REFUSE CUT - MRC (SQ. FT.)
- ▩ MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50
 Vertical Scale 10

LEGEND

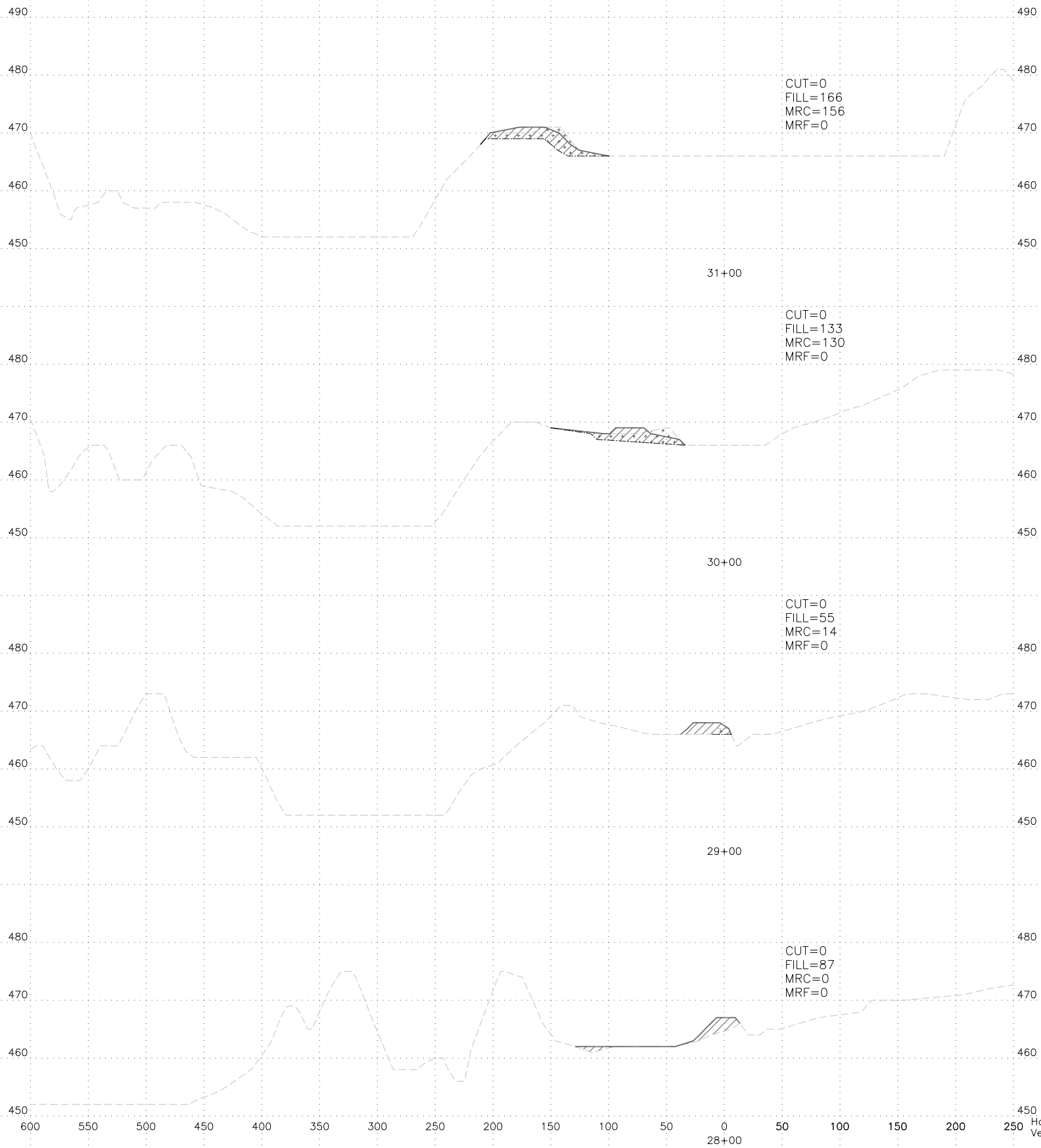
- EXISTING GRADE
- - - PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- [Vertical Lines] EARTH CUT - CUT (SQ. FT.)
- [Diagonal Lines] EARTH FILL - FILL (SQ. FT.)
- [Dotted Pattern] MINE REFUSE CUT - MRC (SQ. FT.)
- [Cross-hatch Pattern] MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50
 Vertical Scale 10

LEGEND

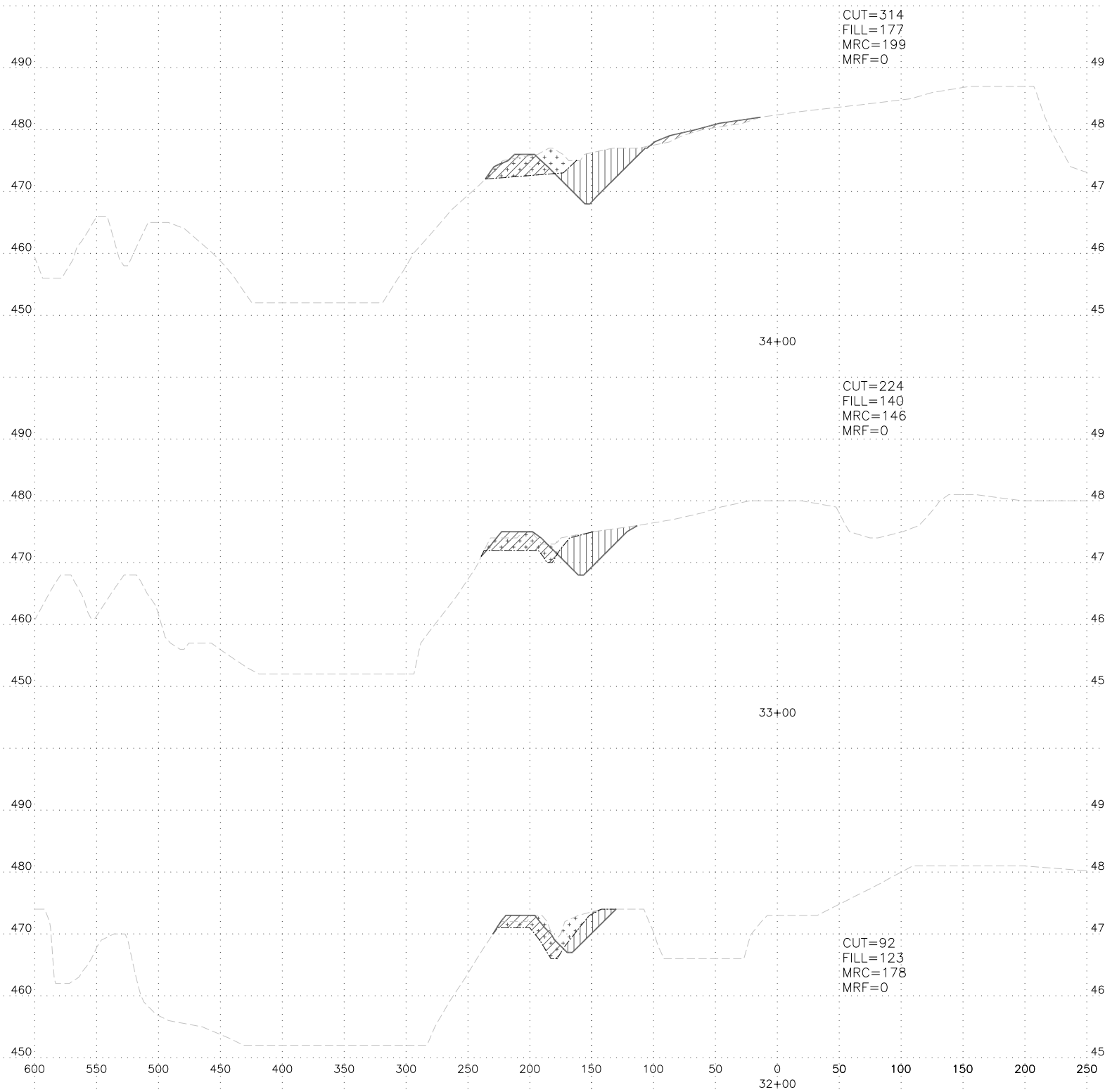
- EXISTING GRADE
- - - PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- [Vertical Lines] EARTH CUT - CUT (SQ. FT.)
- [Diagonal Lines] EARTH FILL - FILL (SQ. FT.)
- [Dotted] MINE REFUSE CUT - MRC (SQ. FT.)
- [Cross-hatch] MINE REFUSE FILL - MRF (SQ. FT.)



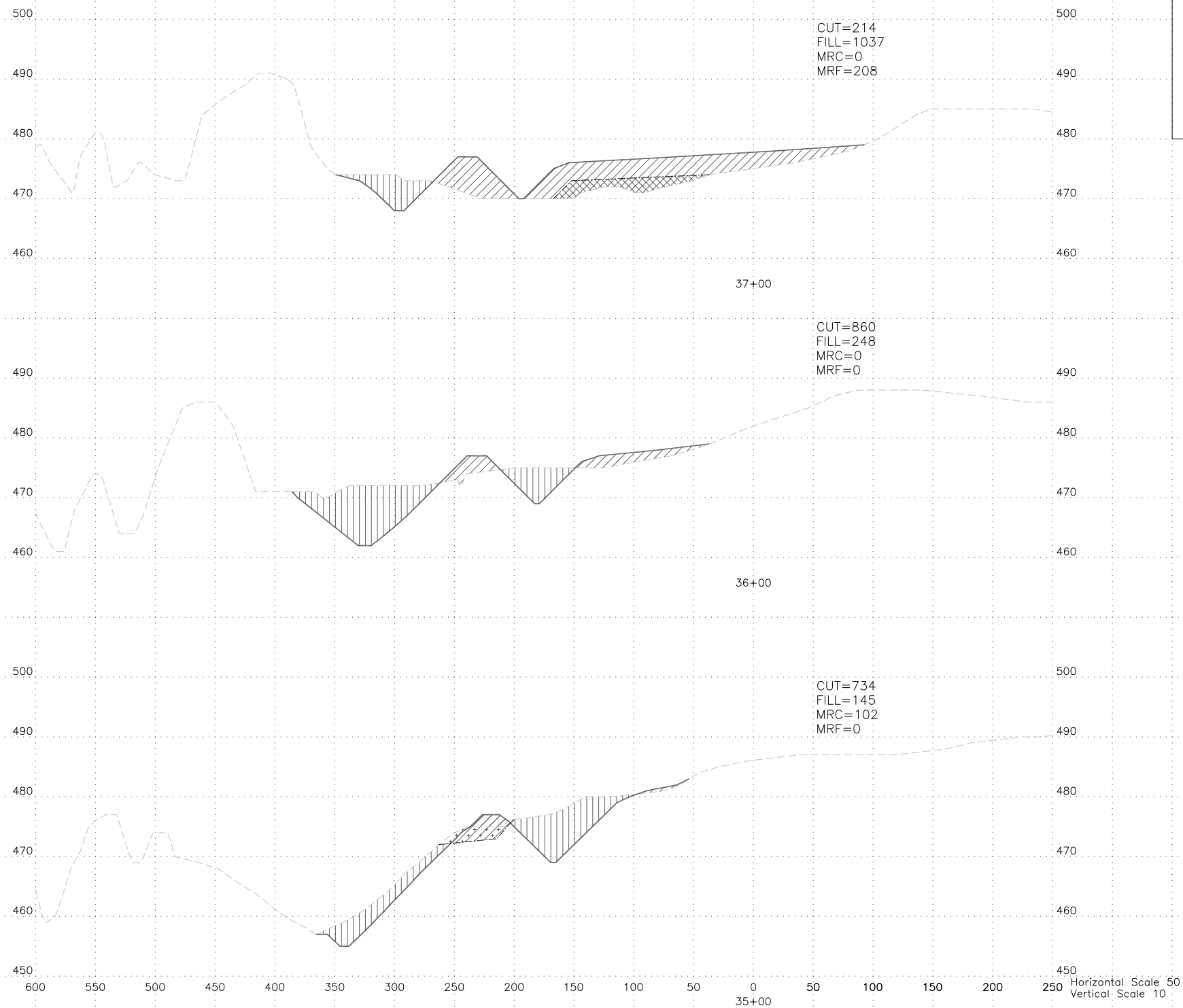
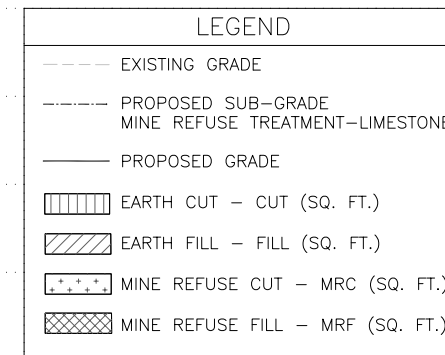
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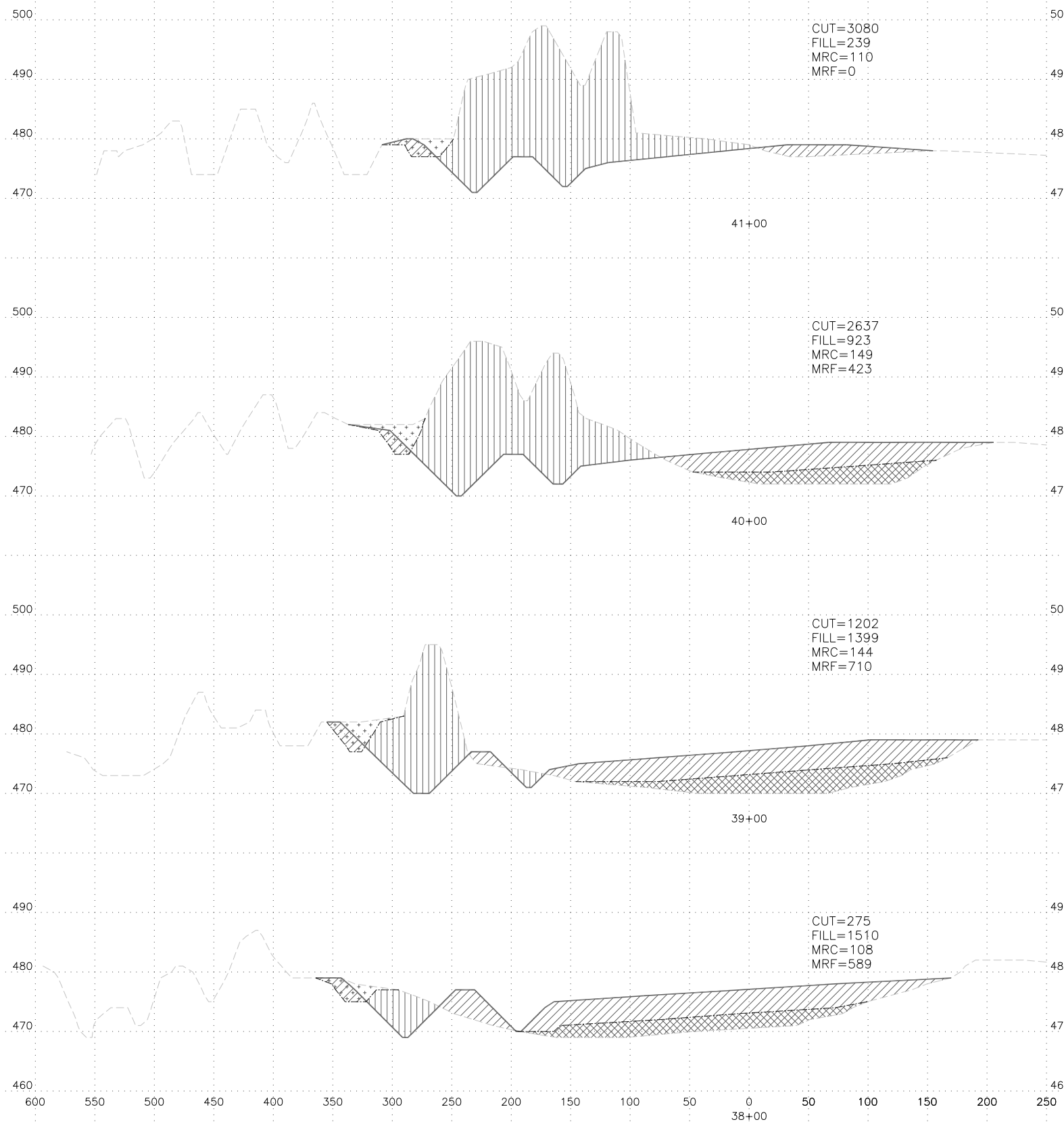
LEGEND

- EXISTING GRADE
- - - PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- [Vertical Lines] EARTH CUT - CUT (SQ. FT.)
- [Diagonal Lines] EARTH FILL - FILL (SQ. FT.)
- [Dotted] MINE REFUSE CUT - MRC (SQ. FT.)
- [Cross-hatch] MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50
 Vertical Scale 10



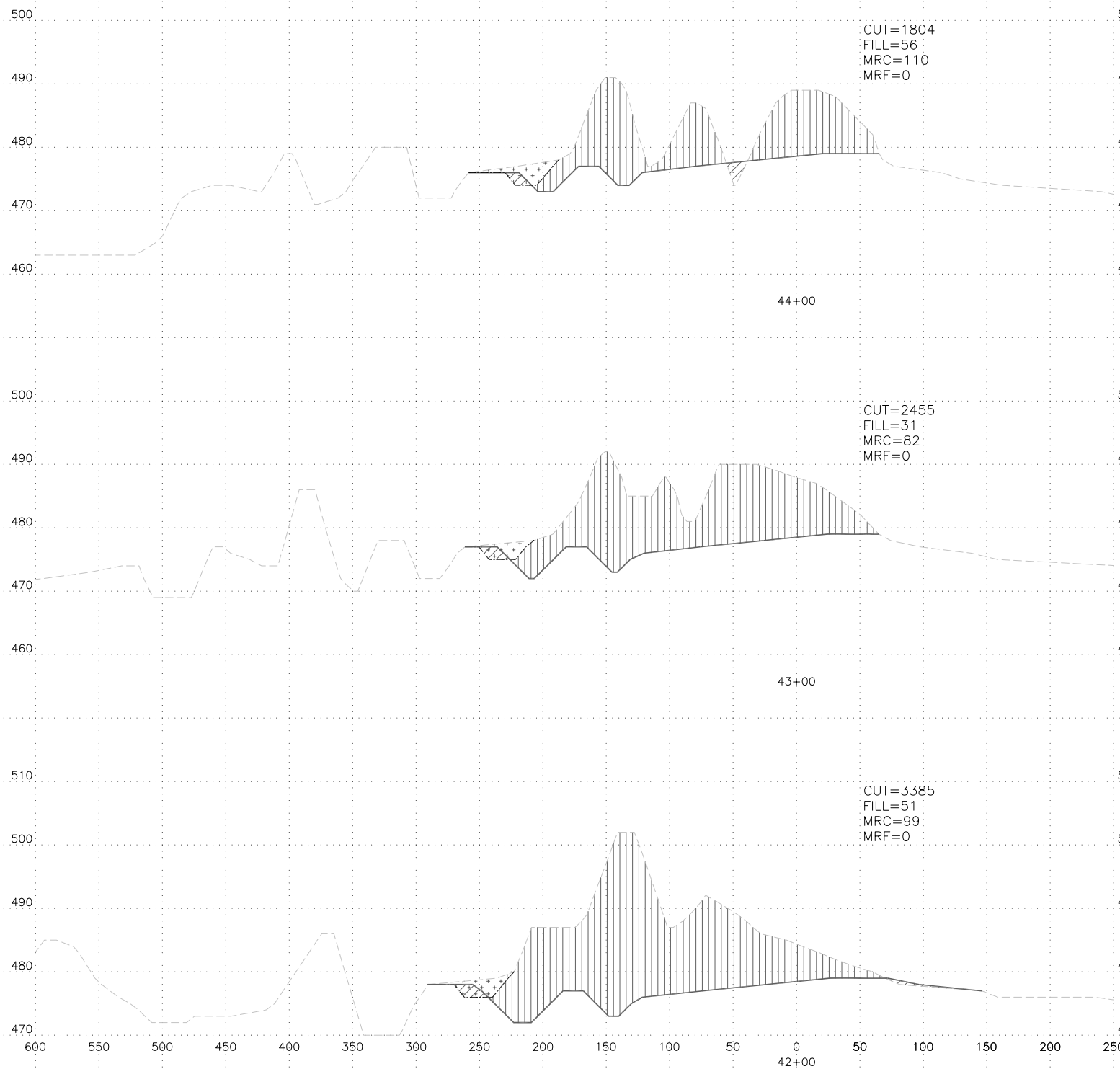


LEGEND

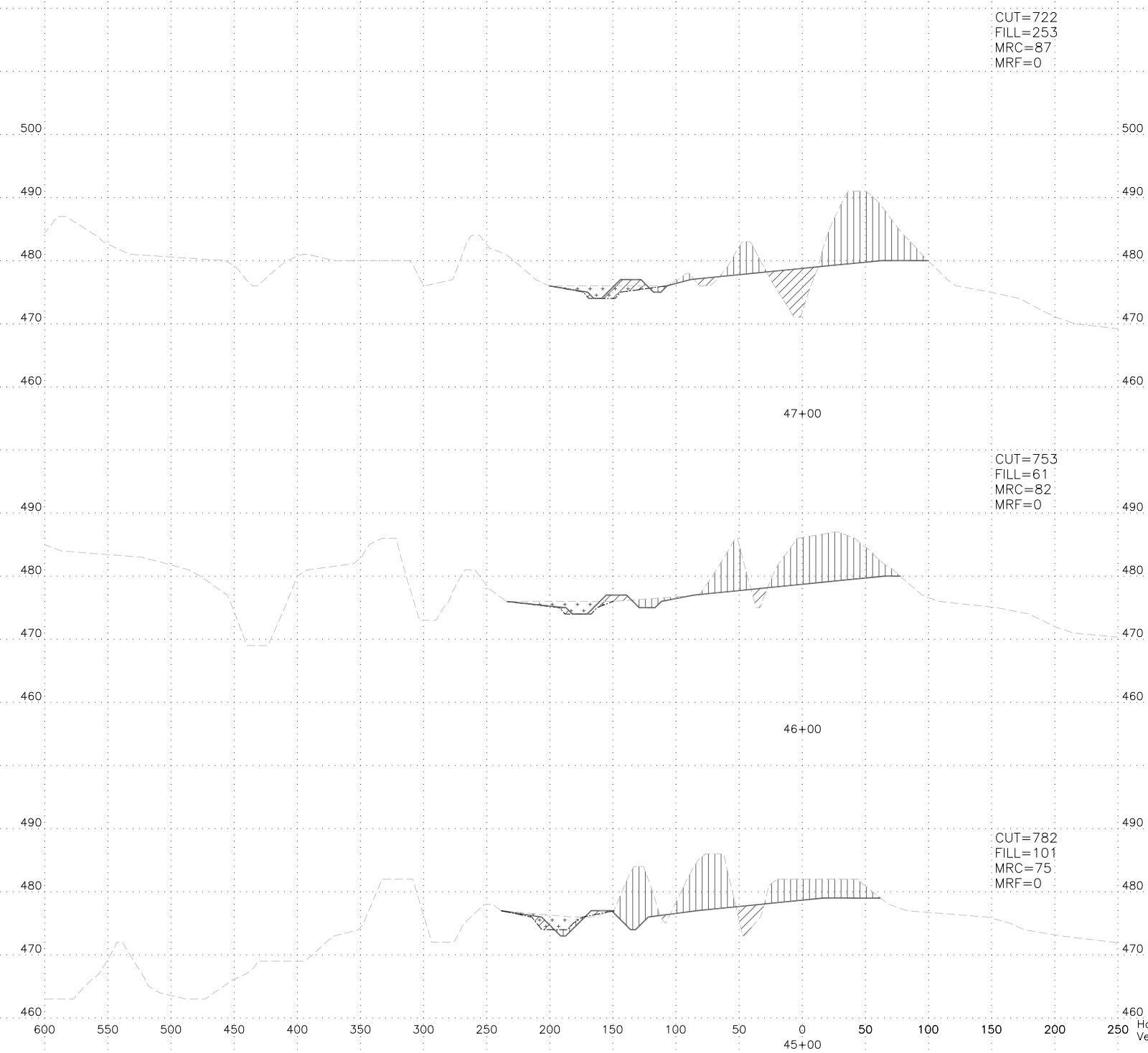
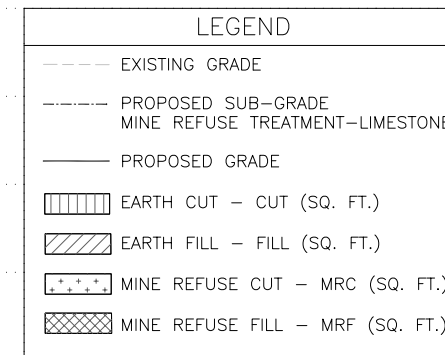
- EXISTING GRADE
- PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ||||| EARTH CUT - CUT (SQ. FT.)
- ////// EARTH FILL - FILL (SQ. FT.)
- MINE REFUSE CUT - MRC (SQ. FT.)
- XXXXX MINE REFUSE FILL - MRF (SQ. FT.)

Horizontal Scale 50
 Vertical Scale 10

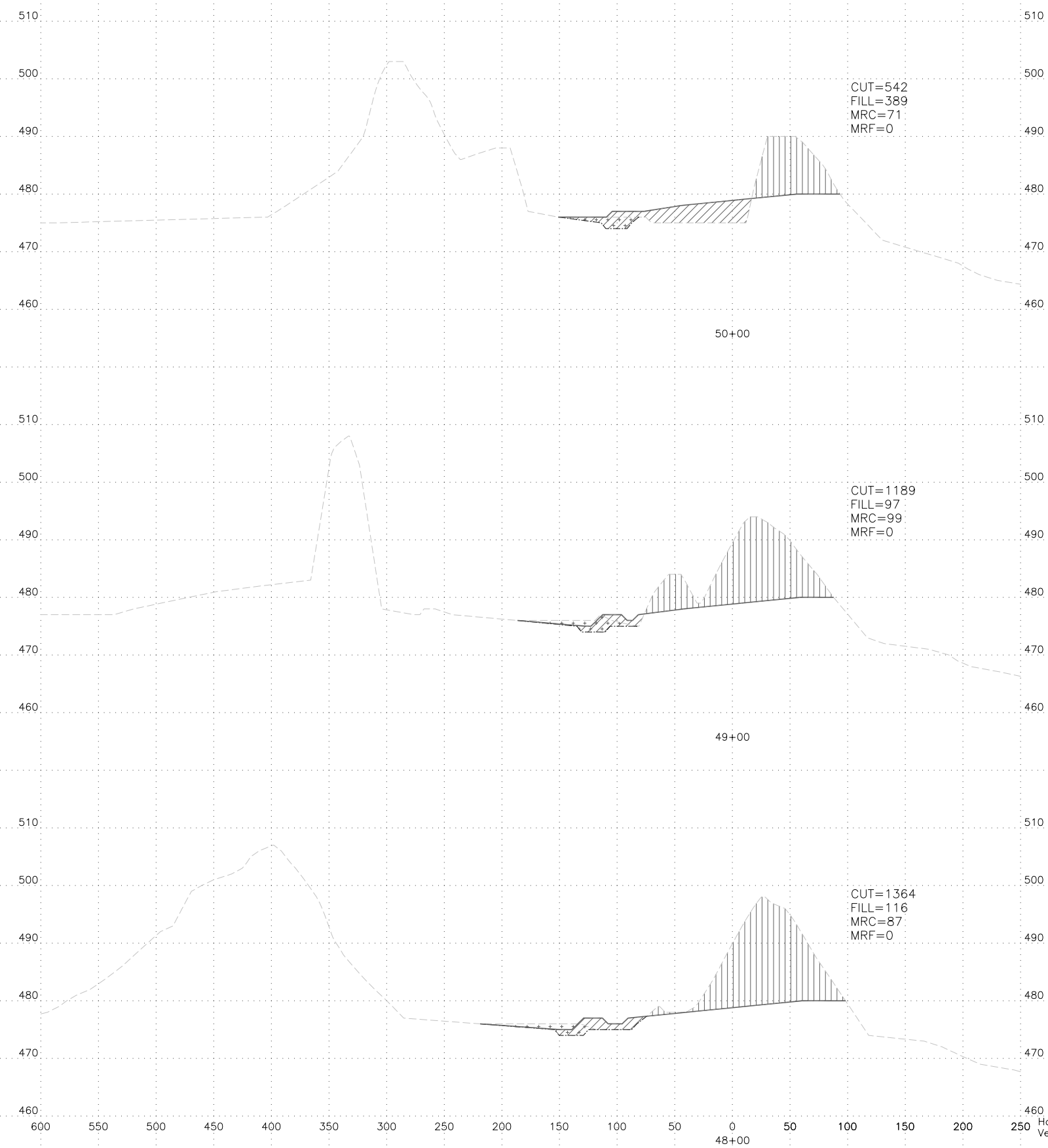
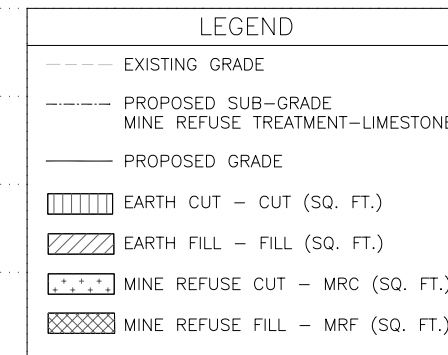
| LEGEND | |
|--------|---|
| --- | EXISTING GRADE |
| - - - | PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE |
| — | PROPOSED GRADE |
| | EARTH CUT - CUT (SQ. FT.) |
| //// | EARTH FILL - FILL (SQ. FT.) |
| * * * | MINE REFUSE CUT - MRC (SQ. FT.) |
| XXXX | MINE REFUSE FILL - MRF (SQ. FT.) |










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 Vertical Scale 10

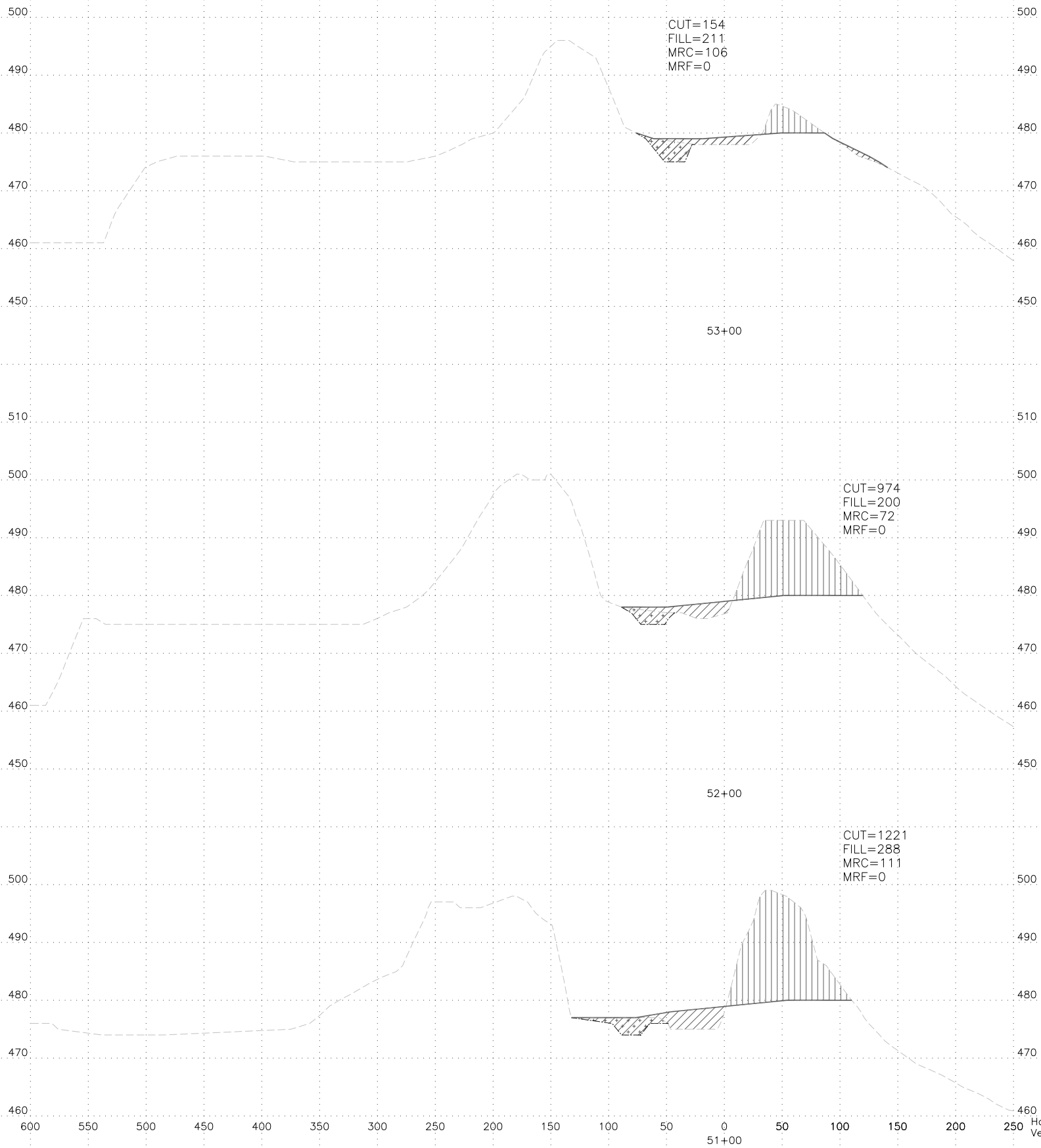


Horizontal Scale 50
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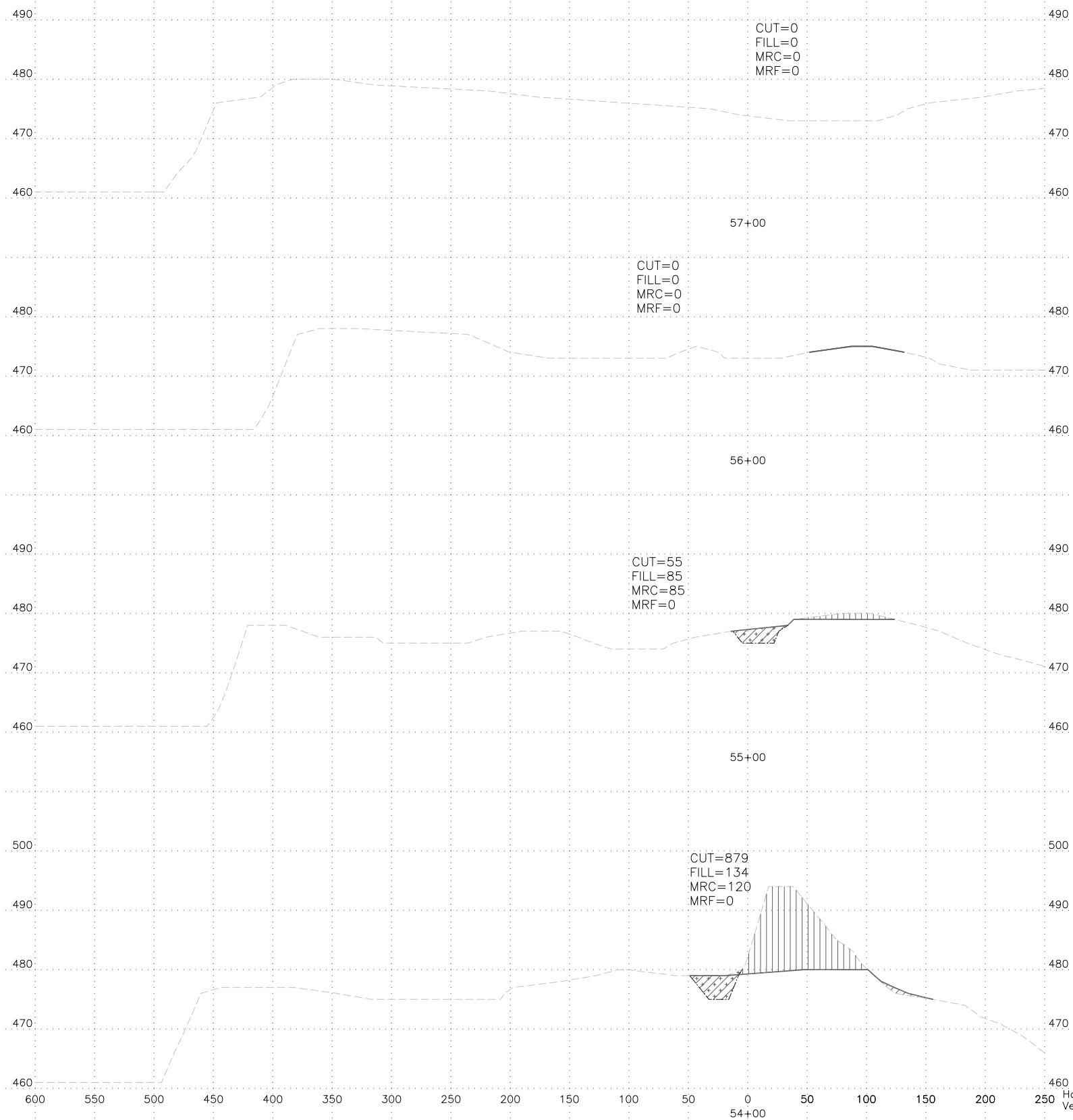
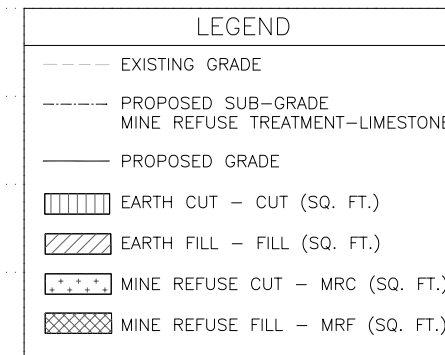


Horizontal Scale 50
 Vertical Scale 10

| LEGEND | |
|---|---|
|  | EXISTING GRADE |
|  | PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE |
|  | PROPOSED GRADE |
|  | EARTH CUT - CUT (SQ. FT.) |
|  | EARTH FILL - FILL (SQ. FT.) |
|  | MINE REFUSE CUT - MRC (SQ. FT.) |
|  | MINE REFUSE FILL - MRF (SQ. FT.) |



Horizontal Scale 50
 Vertical Scale 10



Horizontal Scale 50
 Vertical Scale 10

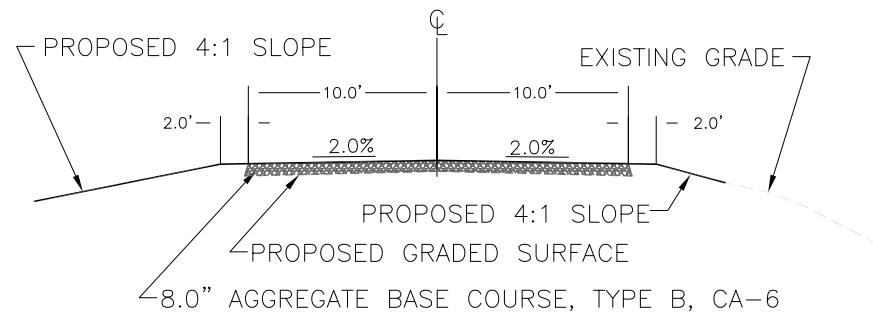
| |
|-----------------|
| SPACING LETTERS |
| 2.0" |
| 3.5" |
| 1.5" |
| 3.5" |
| 1.5" |
| 3.5" |
| 1.5" |
| 3.5" |
| 3.5" |
| 3.0" |
| 3.5" |
| 2.5" |
| 1.5" |
| 2.5" |
| 3.5" |
| 2.0" |
| 1.5" |
| 2.0" |
| 2.0" |

RECLAMATION PROJECT
 of the
DEPARTMENT OF NATURAL RESOURCES
STATE OF ILLINOIS
PAT QUINN, GOVERNOR
 Marc Miller, Director
 Illinois Dept. of Natural Resources
 In cooperation with the Office of Surface Mining
 United States Department of the Interior

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.
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.

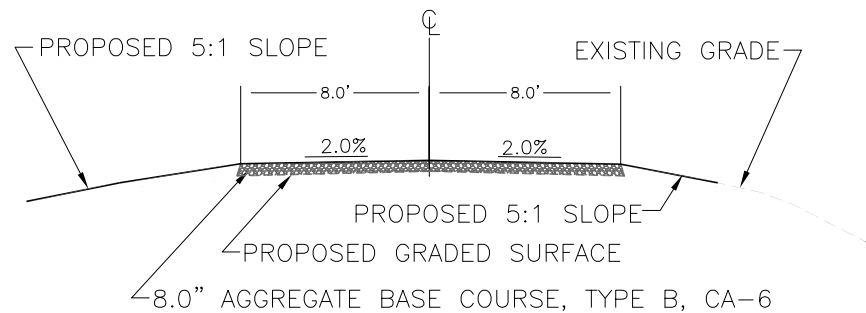
CONSTRUCTION SIGN DETAIL

DETAIL A-25, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



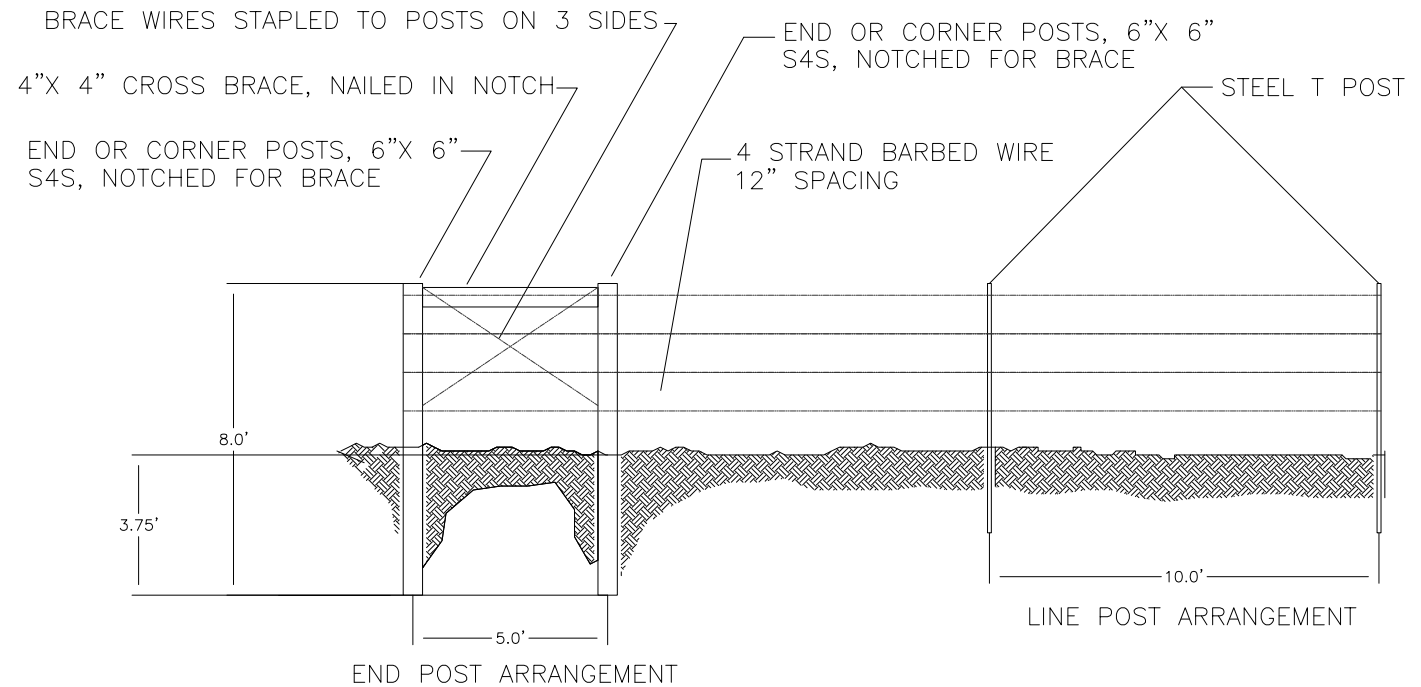
TYPICAL SECTION DETAIL — TOWNSHIP ROAD #253-A

STATION 0+00 TO STATION 17+00, DETAIL B-25 — NOT TO SCALE



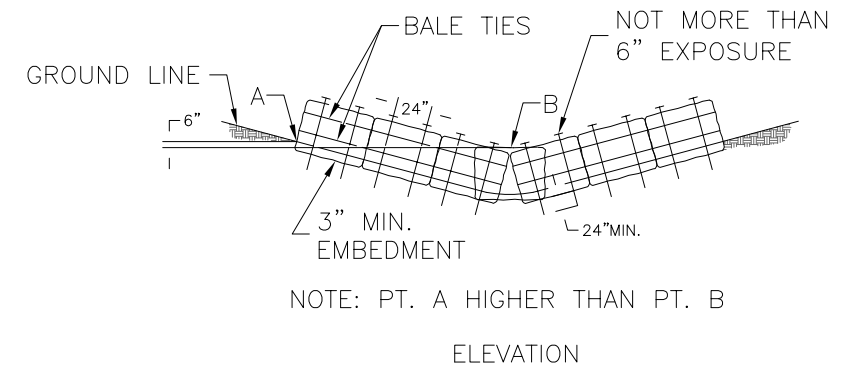
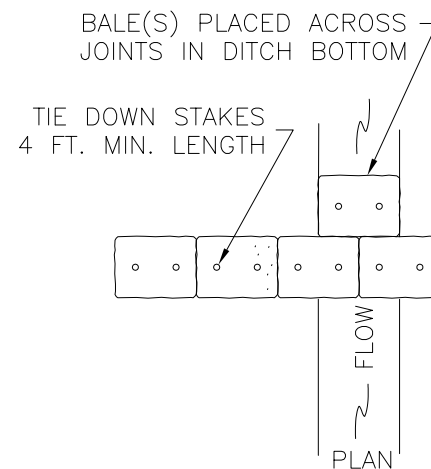
TYPICAL SECTION DETAIL — HAUL ROAD

STATION 18+00 TO STATION 57+00, DETAIL C-25 — NOT TO SCALE



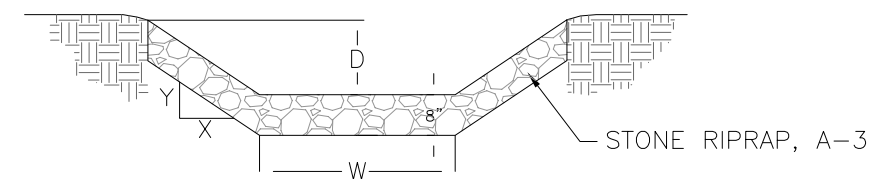
FENCE DETAIL

DETAIL D-25 — NOT TO SCALE



STRAW BALES FOR DITCH CHEKS

DETAIL E-25, TYPICAL SECTION, NOT TO SCALE



| CHANNEL | "W" DIMENSION | "D" DIMENSION | "X:Y" SLOPE | LENGTH | STONE RIPRAP A-3 |
|---------|---------------|---------------|-------------|---------|------------------|
| A | 4 FT. | 2 FT. | 4:1 | 62 FT. | 41 TONS |
| B | 4 FT. | 1 FT. | 6:1 | 165 FT. | 85 TONS |
| C | 4 FT. | 2 FT. | 4:1 | 25 FT. | 16 TONS |
| D | 4 FT. | 1 FT. | 5:1 | 276 FT. | 125 TONS |

STONE RIPRAP TRAPEZOIDAL CHANNEL

DETAIL F-25, TYPICAL SECTION, NOT TO SCALE

State of Illinois
 Department of Natural Resources

Morgan Mine C.C. South
 Reclamation Project
 AML-GWmE-0711
 Williamson County

Drawn By: OMA
 Checked By:
 Date: 09-05-10

Details Sheet

Sheet 25 of 25