

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = JJC111ff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

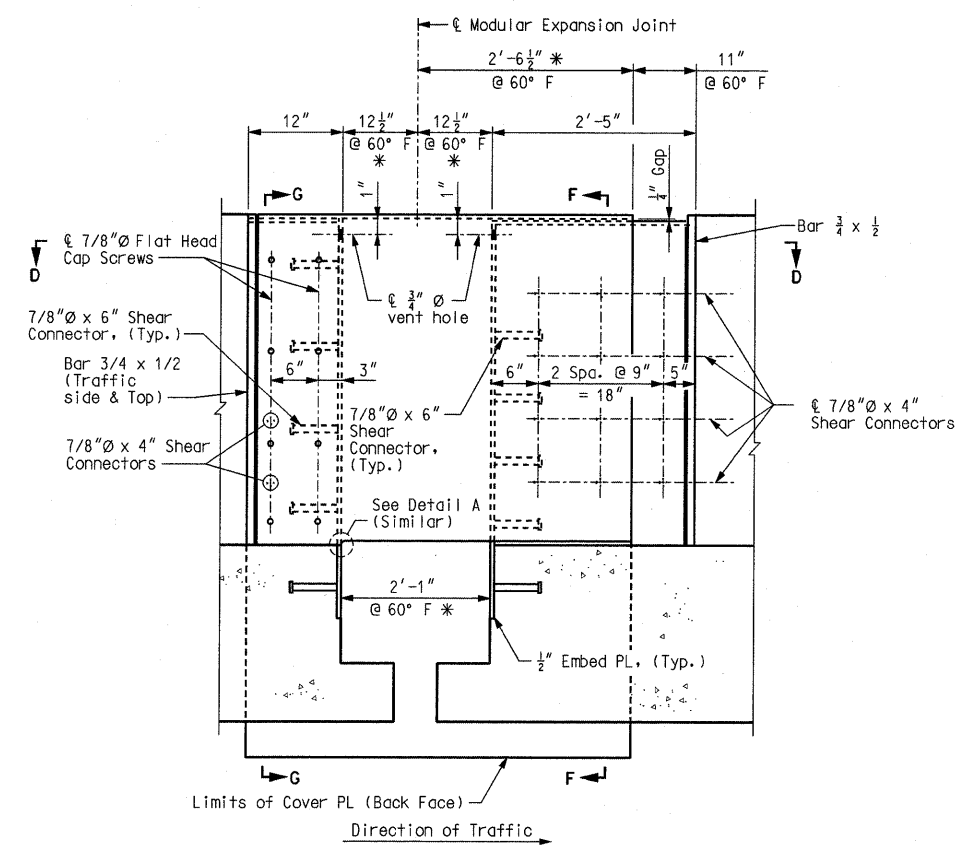
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

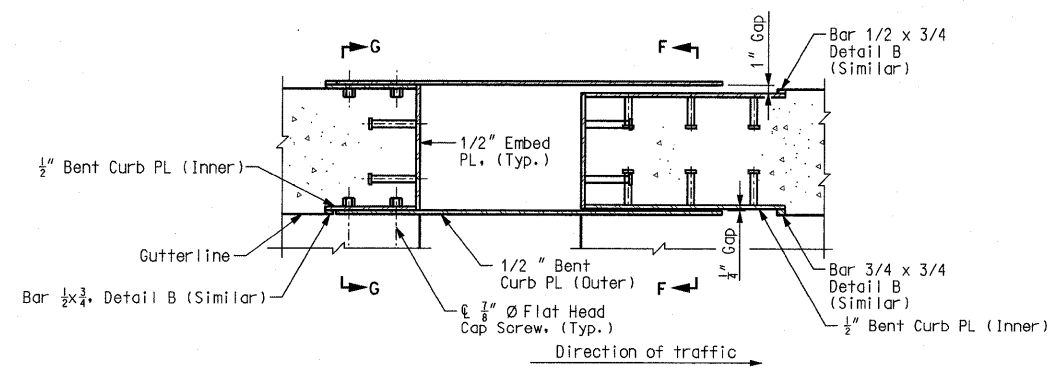
**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631

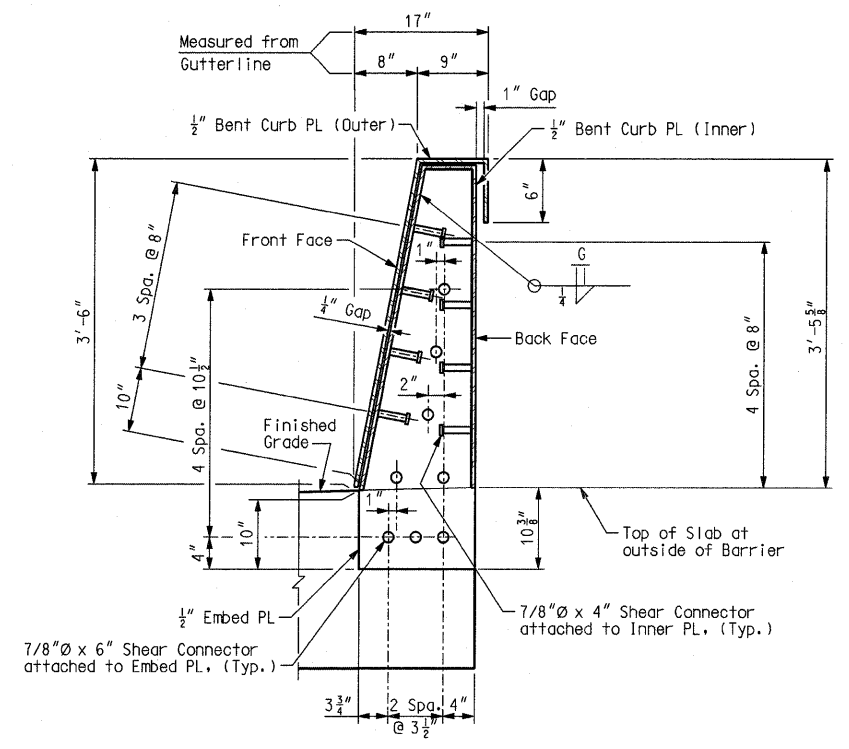


ELEVATION - BARRIER CURB COVER PLATES

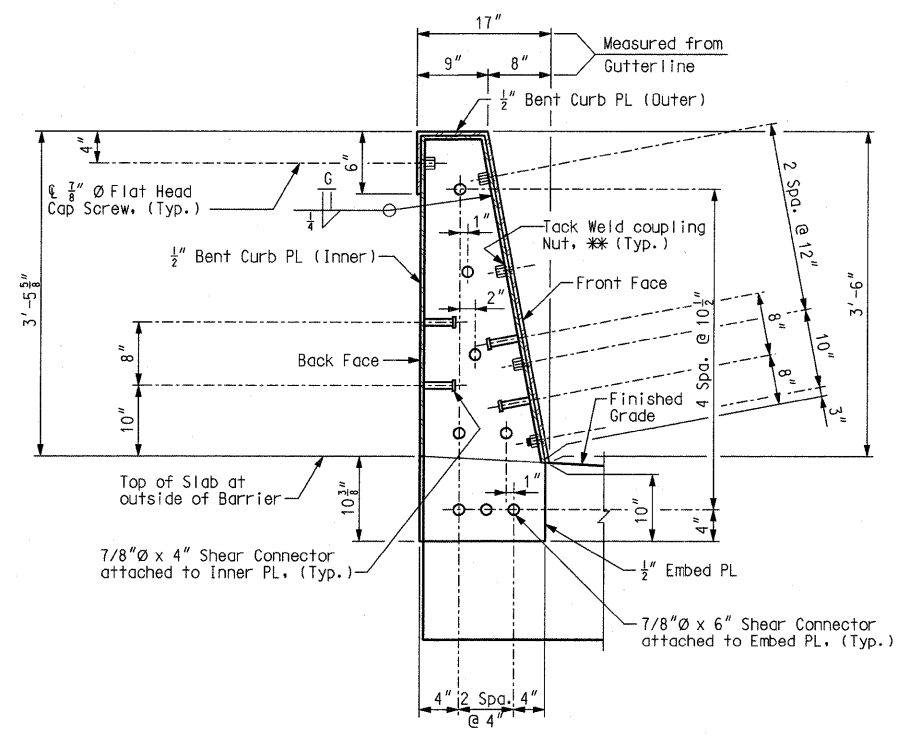
WB - Right Barrier  
EB - Left Barrier



SECTION D-D



SECTION F-F



SECTION G-G

Notes:  
\* Gap dimension @ 60°F is dependent upon modular expansion joint selection. Contractor is responsible for coordinating any revisions required due to deviations from dimensions shown.  
Barrier plates shall be ASTM A240 Type 304 stainless steel.  
For Details "A" and "B" see Sheet 119.  
Payment for furnishing and installing the barrier curb cover plates will be considered completely covered by the contract unit price for Modular Expansion Joint per linear foot.  
\*\* Plug end of coupling nut to maintain void for screw placement.  
Flat head cap screws shall be in accordance with ASTM A449.

BARRIER CURB COVER PLATE DETAILS - PIER 17 (2 OF 2)

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jjolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
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REVISED -	
REVISED -	
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REVISED -	

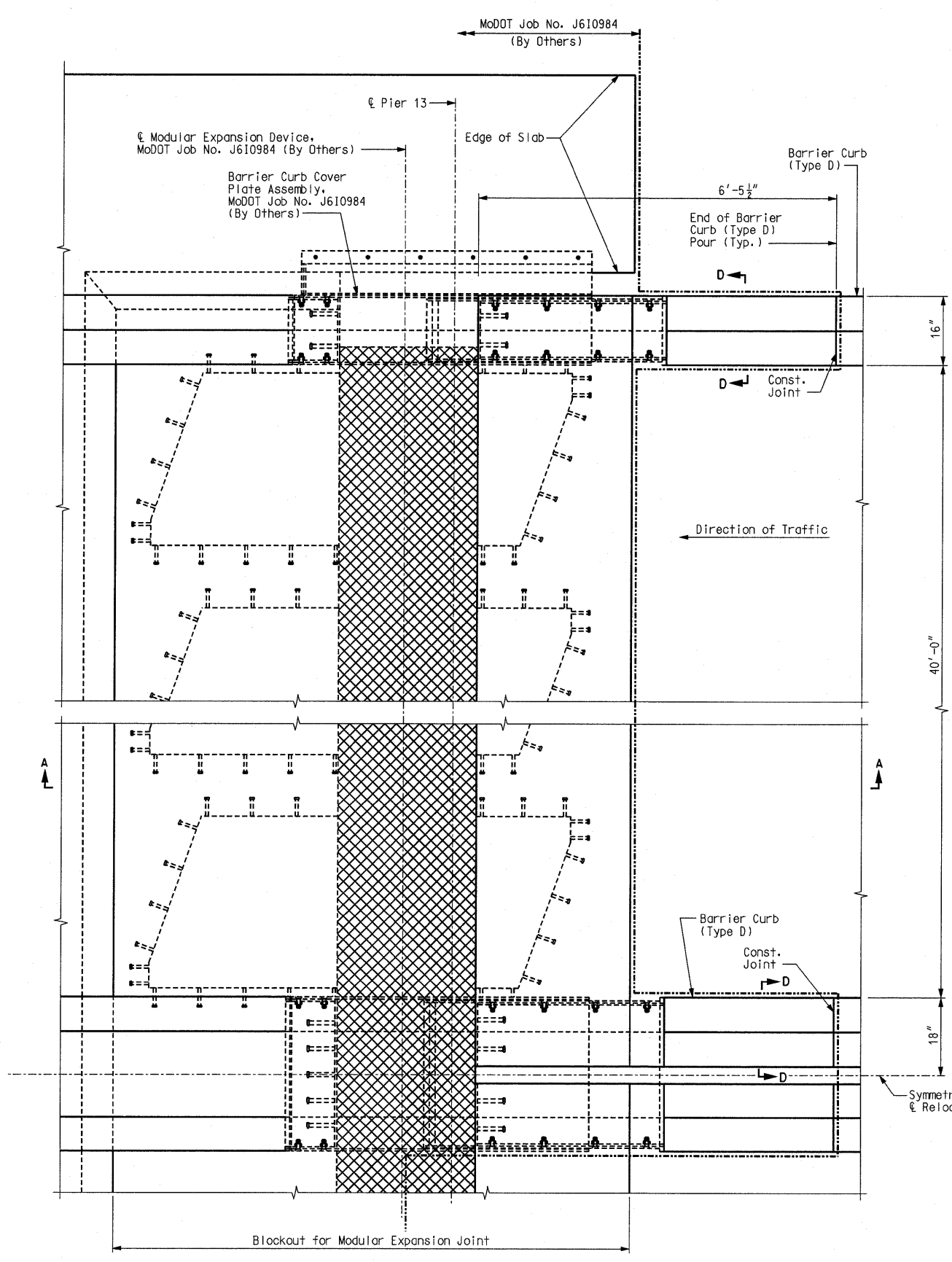
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

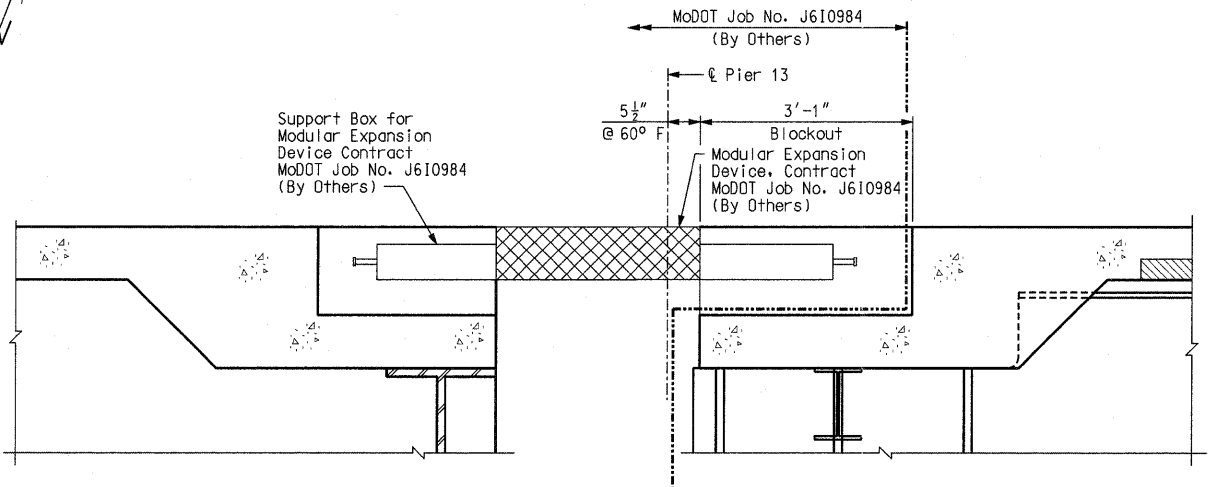
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

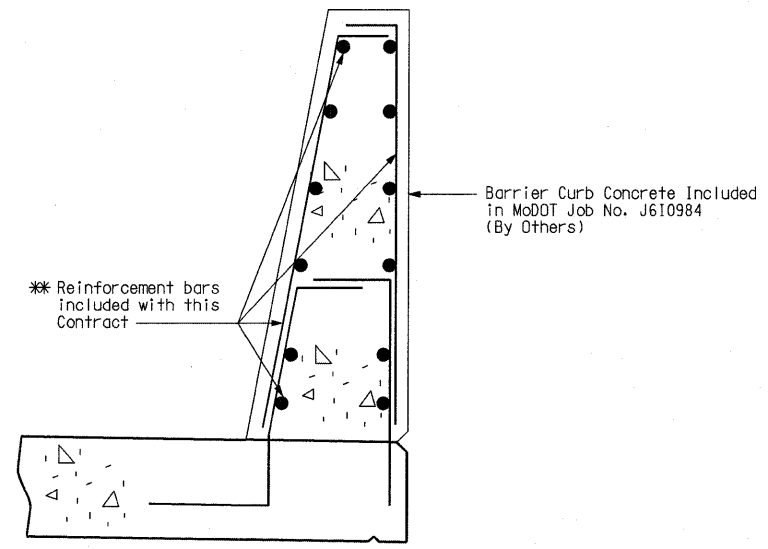
**CMT**  
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2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



PLAN - PIER 13



SECTION A-A



SECTION D-D

Notes:  
Design movements for Modular Expansion Device shall be determined by the main span contractor MoDOT Job No. J610984 (By Others)  
For slab reinforcing at Expansion Joints, see Sheet No. 100.  
\*\* For details of Barrier Curb (Type D), see Sheet Nos. 109 thru 118.

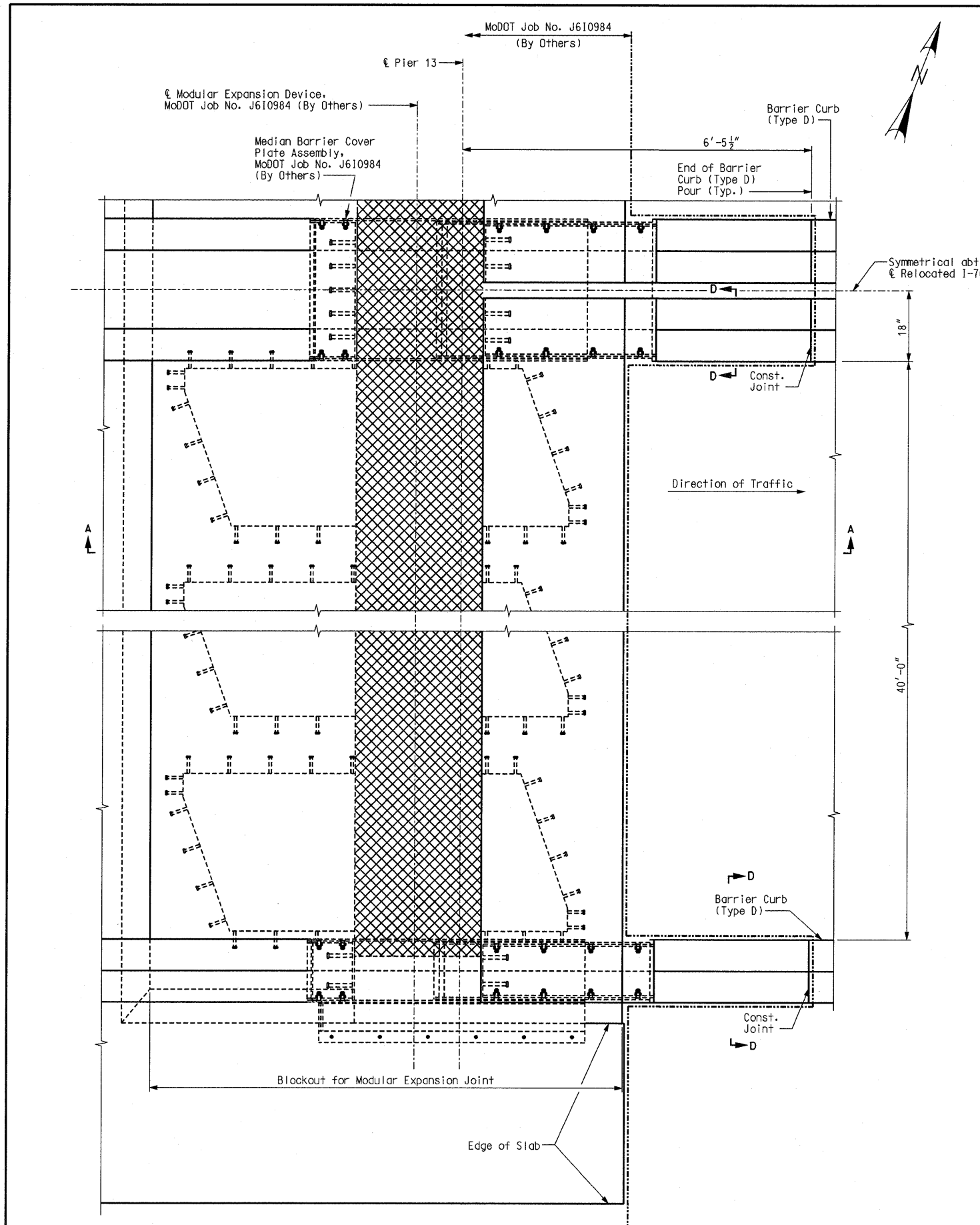
Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 121 of 152

MODULAR EXPANSION JOINT DETAILS WB - PIER 13



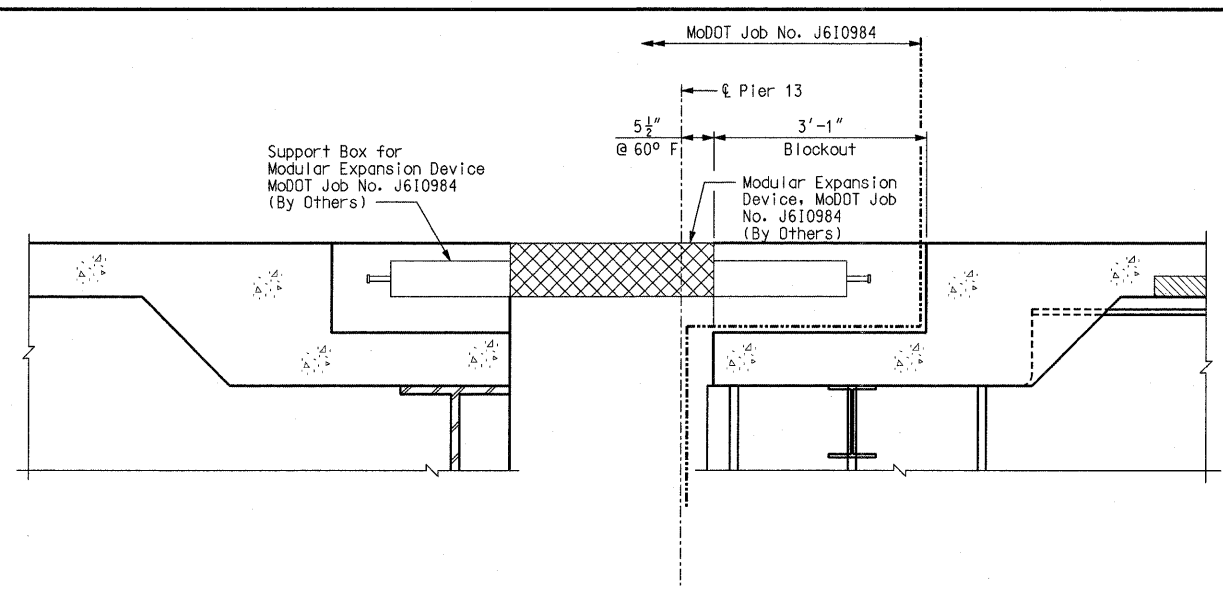


PLAN - PIER 13

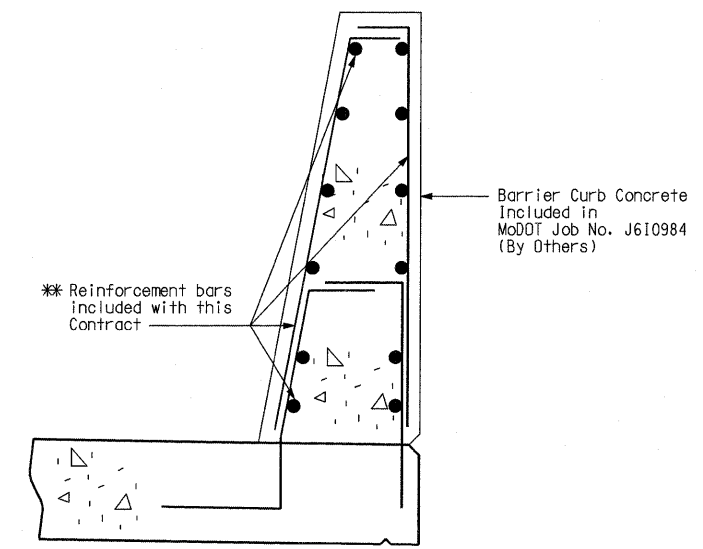
Note: This drawing is not to scale. Follow dimensions.

Detailed JUL 2009  
Checked JUL 2009

Sheet No. 122 of 152



SECTION A-A



SECTION D-D

Notes:  
Design movements for Modular Expansion Device shall be determined by the main span contractor ModDOT Job No. J610984 (By Others)  
For slab reinforcing at Expansion Joints, see Sheet No. 100.  
\*\* For details of Barrier Curb (Type D), see Sheet Nos. 109 thru 118.

MODULAR EXPANSION JOINT DETAILS EB - PIER 13

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjoilliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
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REVISED -	
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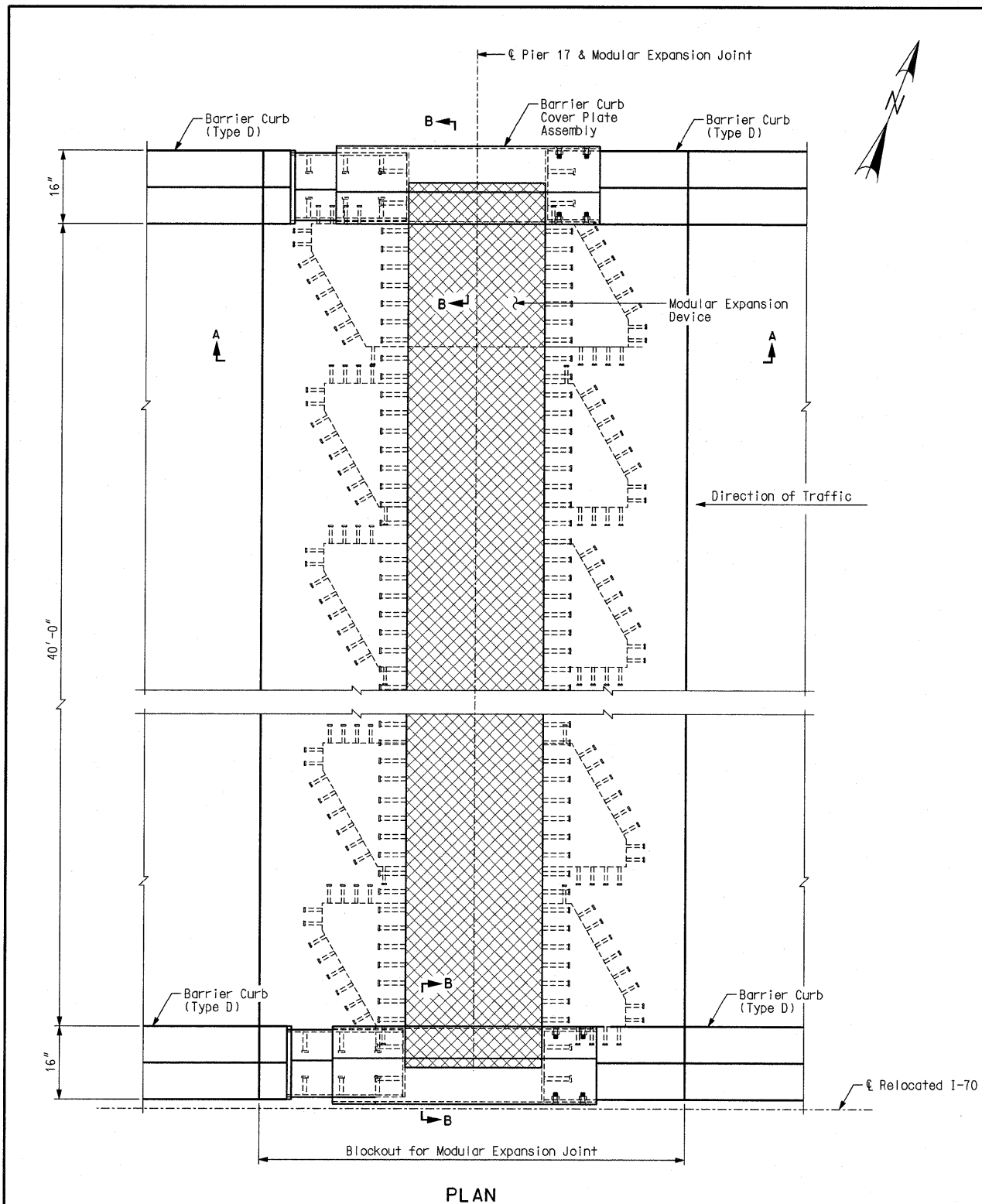
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

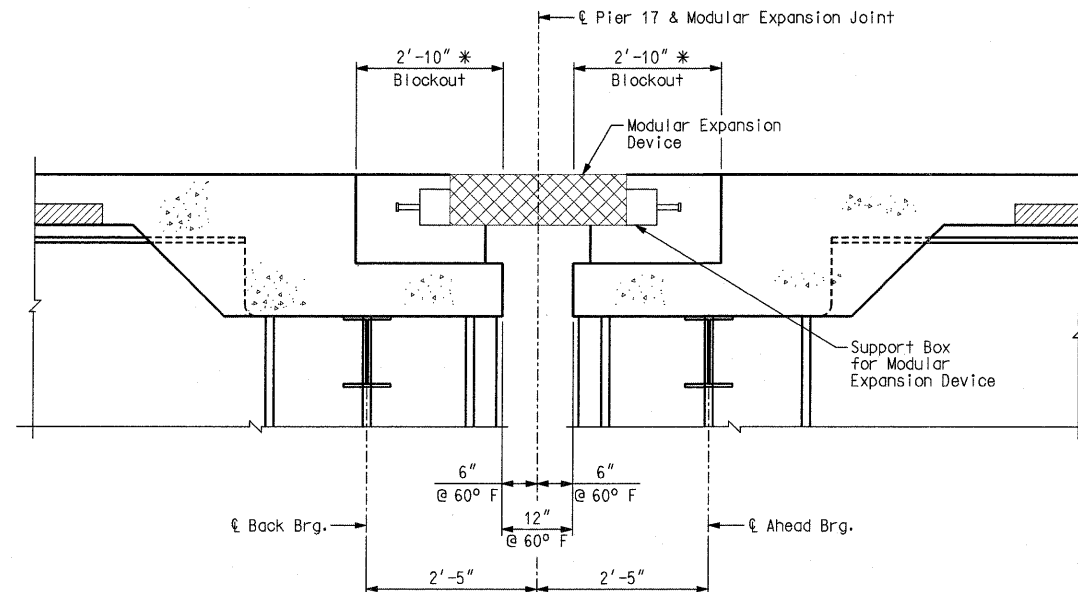
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

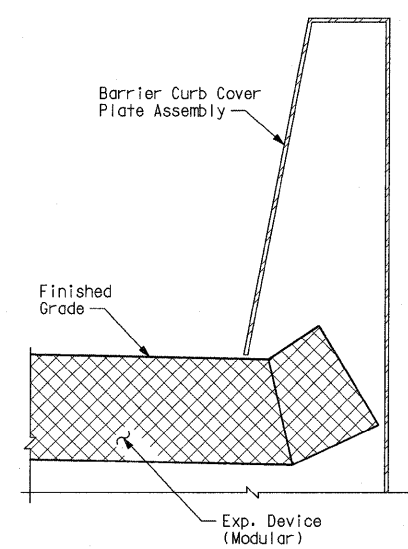
**CMT**  
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2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



PLAN



SECTION A-A



SECTION B-B

Notes:  
 Design movements for Modular Expansion Device are 5.77 inches for closing and 8.67 inches for opening (LRFD Service I).  
 For slab reinforcing at Expansion Joints, see Sheet No. 100.  
 For details of Barrier Curb (Type D), see Sheets Nos. 109 thru 118.  
 For details of Barrier Curb Cover Plate Assembly, see Sheets Nos. 119 and 120.  
 The cost of materials, fabrication, and installation of Expansion Joint shall be included in the pay item "Modular Expansion Joint".  
 \* Dimensions dependent upon Modular Expansion Joint selection.  
 Contractor is responsible for coordinating any revisions required due to deviations from dimensions shown.  
 For additional requirements for Modular Expansion Device, see Special Provisions.

MODULAR EXPANSION JOINT DETAILS WB - PIER 17

Detailed JUL 2009  
 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 123 of 152

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CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
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FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jgj11ff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
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DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE  
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
 AND TRANSPORTATION COMMISSION

**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
 TELEPHONE (816) 472-1201  
 CERTIFICATE OF AUTHORITY  
 NO. 001270

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 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjo11ff	
PLOT SCALE = 4SCALE4	
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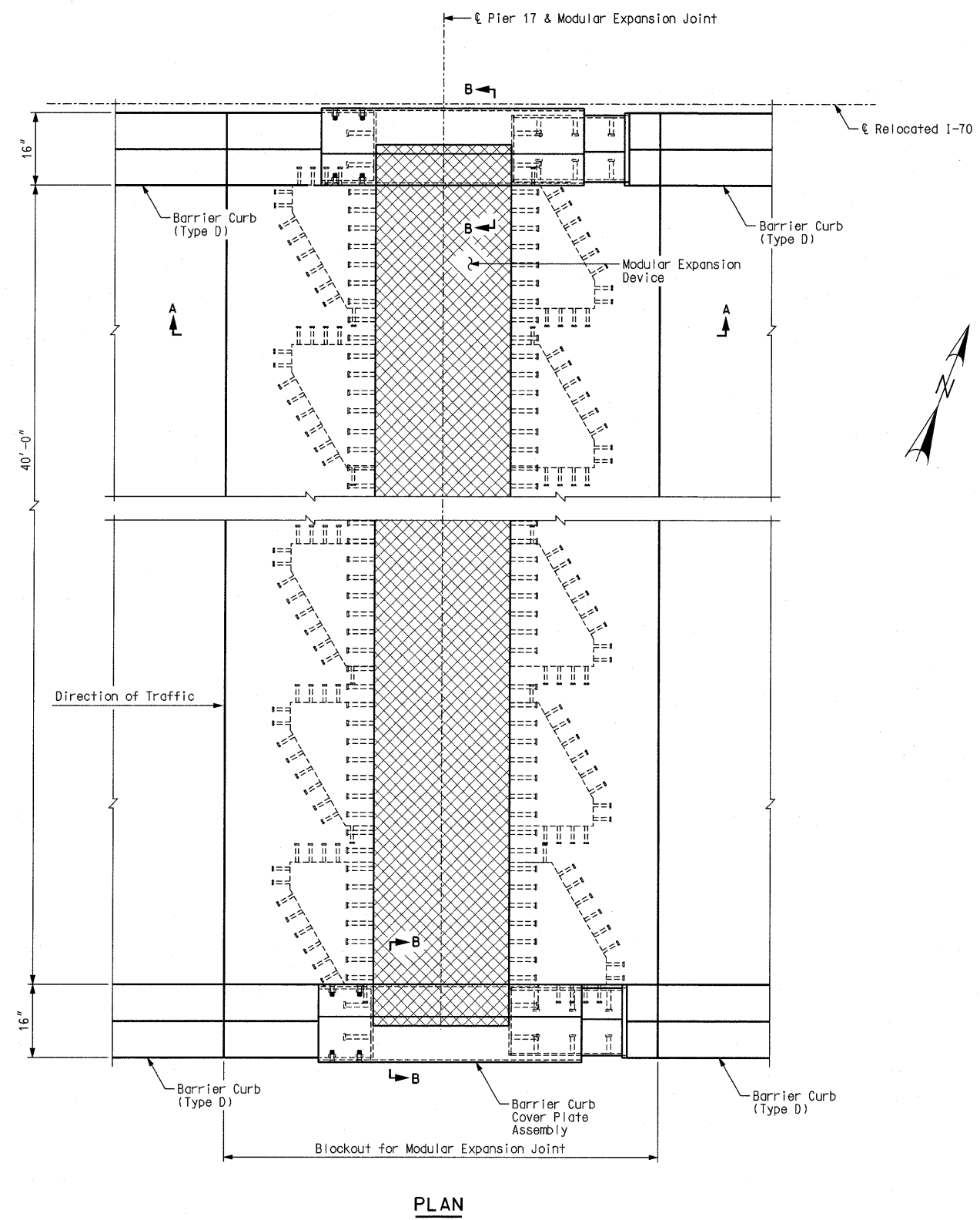
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

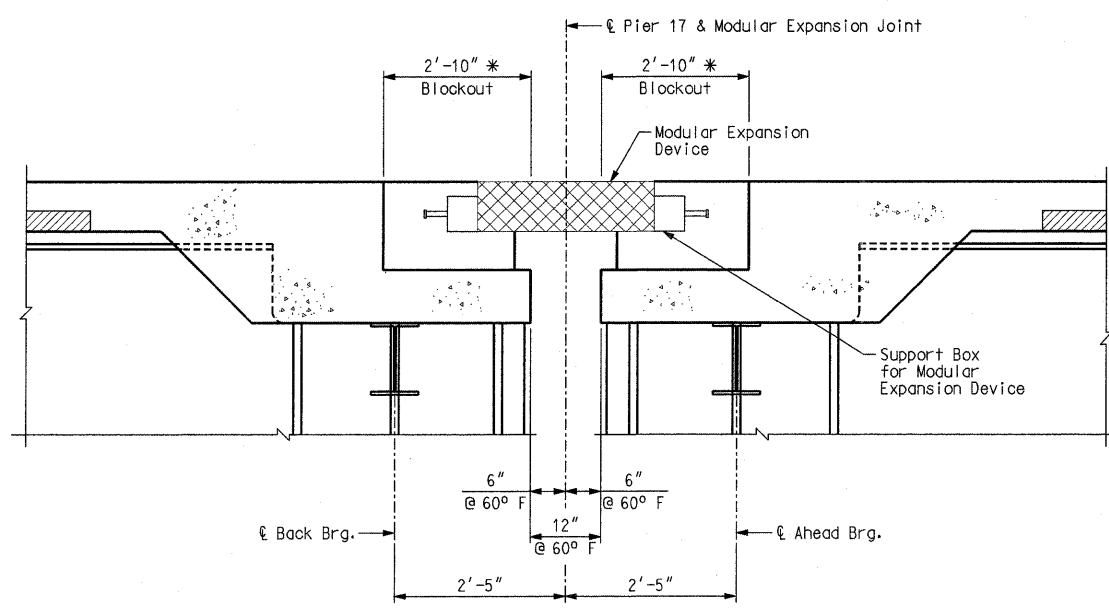
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

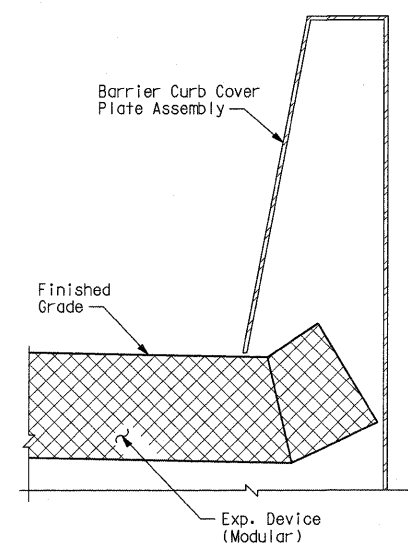
**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



PLAN



SECTION A-A



SECTION B-B

Notes:  
 Design movements for Modular Expansion Device are 5.93 inches for closing and 8.90 inches for opening (LRFD Service I).  
 For slab reinforcing at Expansion Joints, see Sheet No. 100.  
 For details of Barrier Curb (Type D), see Sheets Nos. 109 thru 118.  
 For details of Barrier Curb Cover Plate Assembly, see Sheets Nos. 119 and 120.  
 The cost of materials, fabrication, and installation of Expansion Joint shall be included in the pay item "Modular Expansion Joint".  
 \* Dimensions dependent upon Modular Expansion Joint selection.  
 Contractor is responsible for coordinating any revisions required due to deviations from dimensions shown.  
 For additional requirements for Modular Expansion Device, see Special Provisions.

MODULAR EXPANSION JOINT DETAILS EB - PIER 17

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 124 of 152

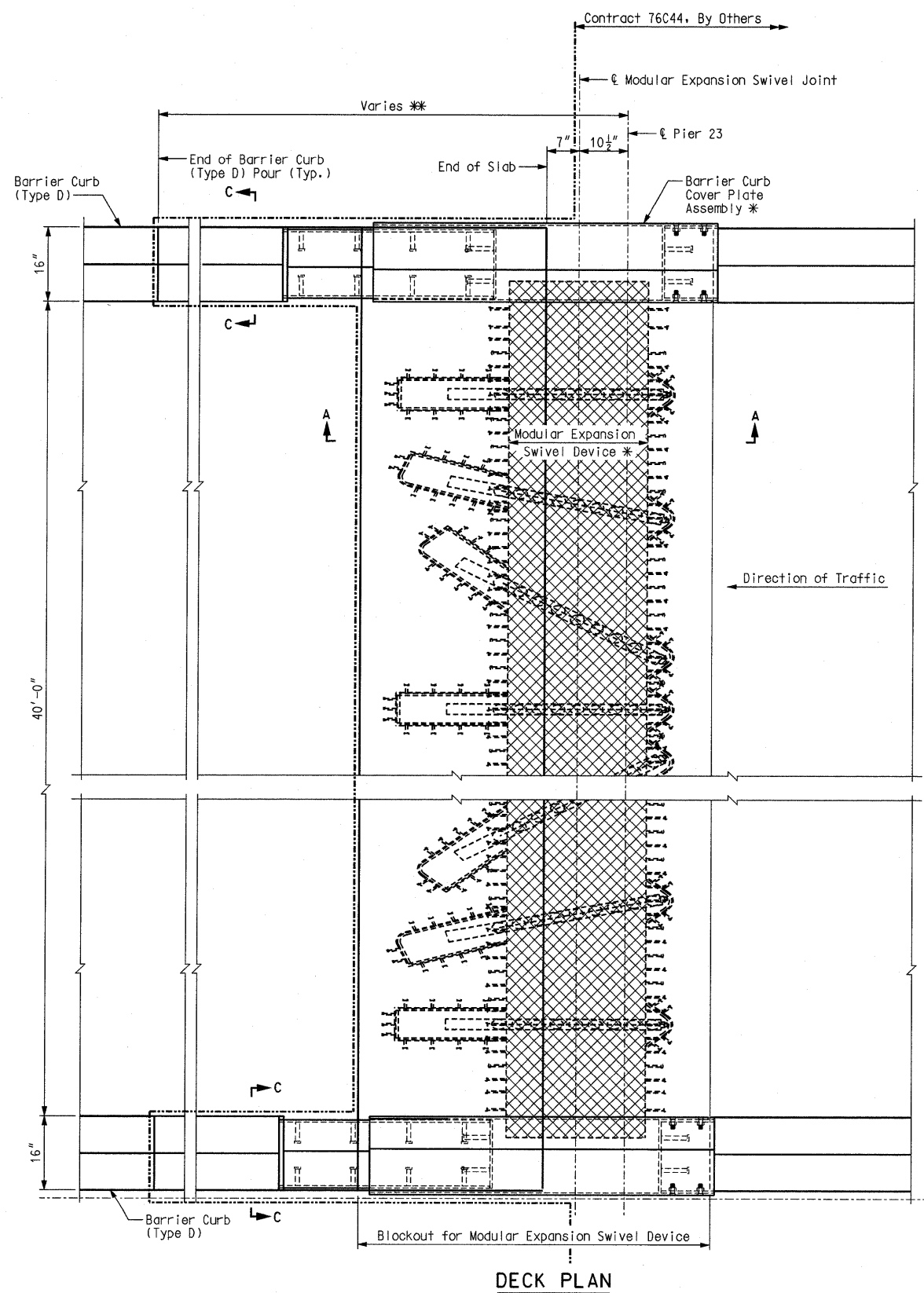
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FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
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PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
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DRAWN -	CMT / HNTB
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REVISED -	

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

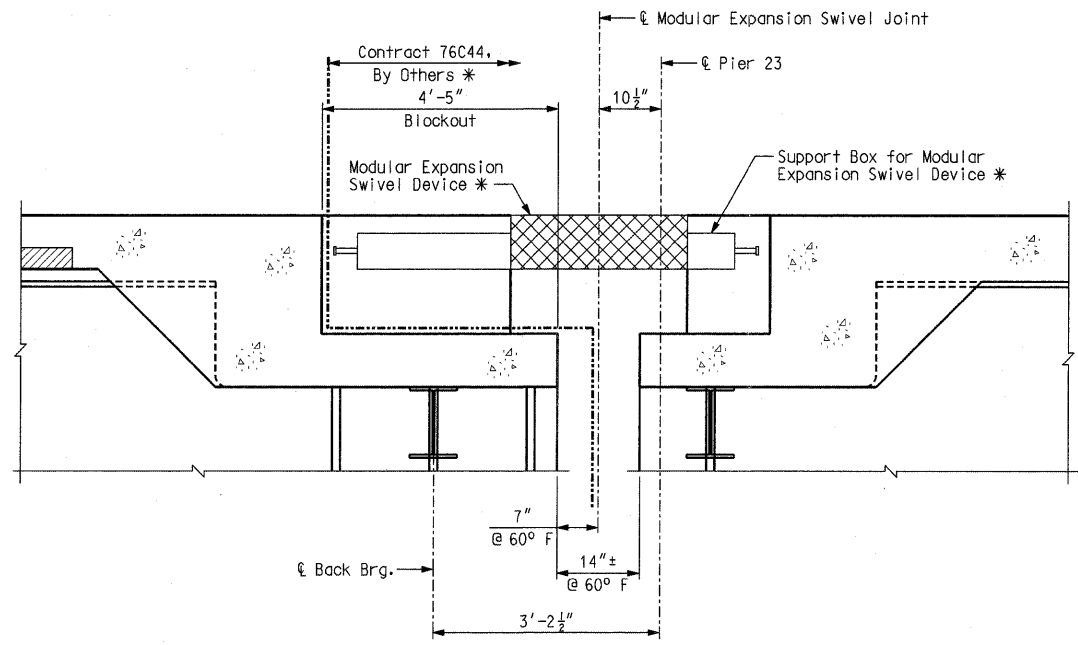
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY NO. 001270

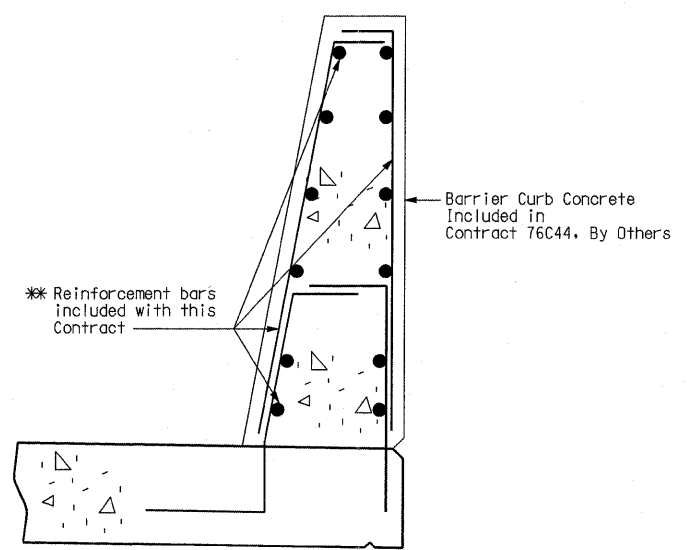
**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



DECK PLAN



SECTION A-A



SECTION C-C  
(Slab Superlevation not shown)

Notes:  
For slab reinforcing at Expansion Joints, see Sheet No. 100.  
\* For details of Barrier Curb (Type D), see Sheet Nos. 109 thru 118.  
\* Barrier segment, barrier curb cover plate assembly, and Modular Expansion Swivel Joint included in Contract 76C44, By Others.

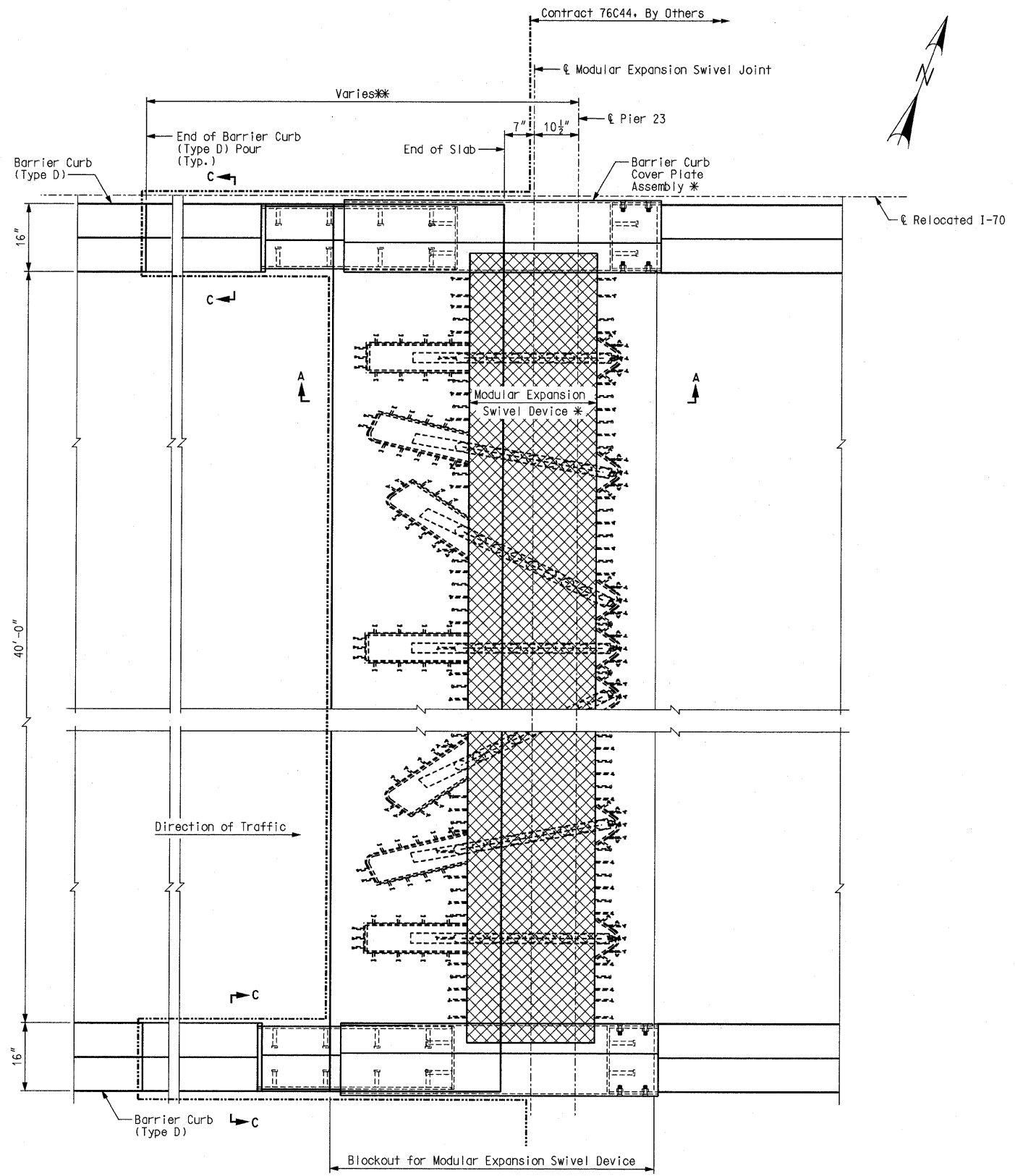
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999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
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ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

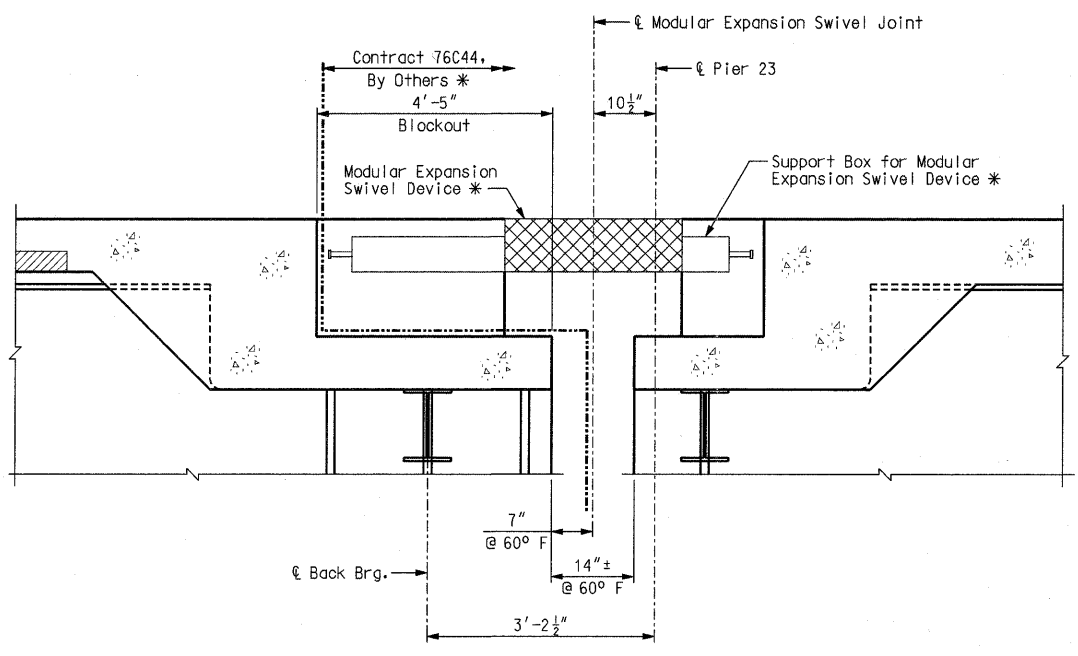
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY NO. 001270

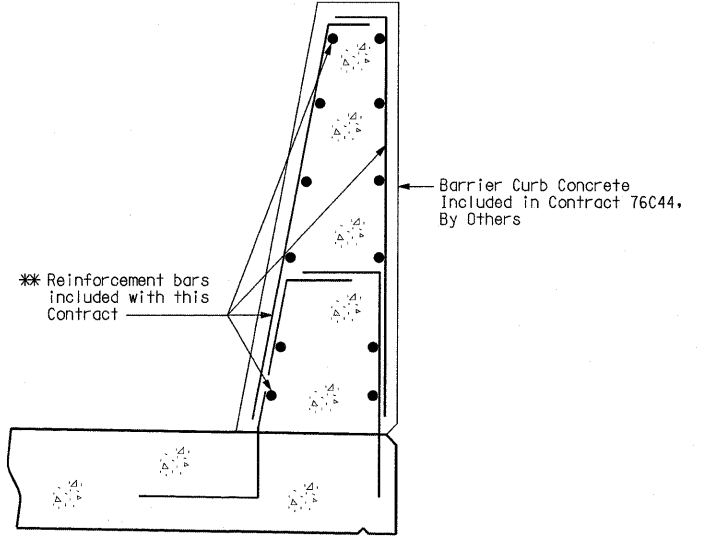
**CMT**  
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2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
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DECK PLAN



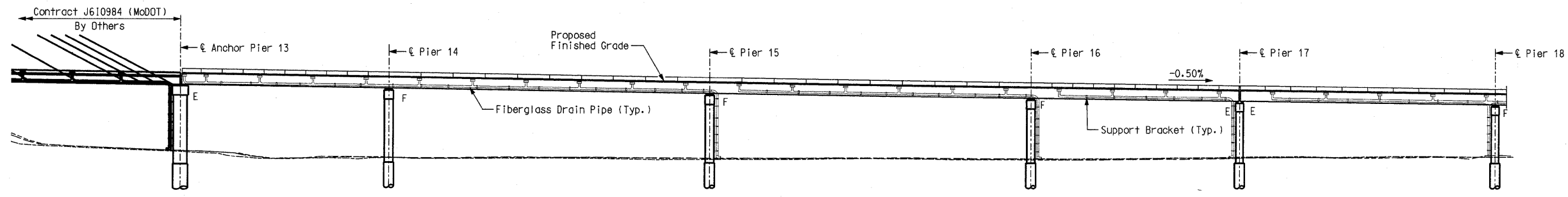
SECTION A-A



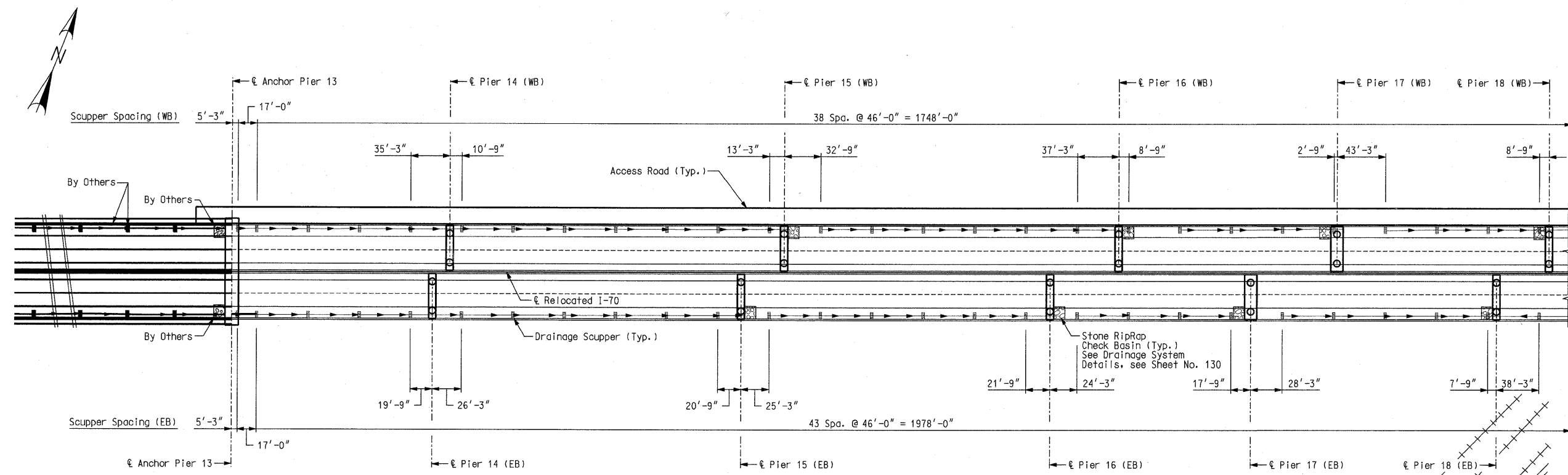
SECTION C-C

Notes:  
 For slab reinforcing at Expansion Joints, see Sheet No. 100.  
 \* For details of Barrier Curb (Type D), see Sheet Nos. 109 thru 118.  
 \* Barrier segment, barrier curb cover plate assembly, and Modular Expansion Swivel Joint included in Contract 76C44, By Others.

F.A. ROUTE	SECTION
999	82-1B-2
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COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
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REVISED -	
REVISED -	
REVISED -	
REVISED -	



**ELEVATION**  
(EB Shown, WB Similar)



**PLAN**

**LEGEND**

	Drainage Scupper
	Fiberglass Drain Pipe
	Stone Riprap Check Basin

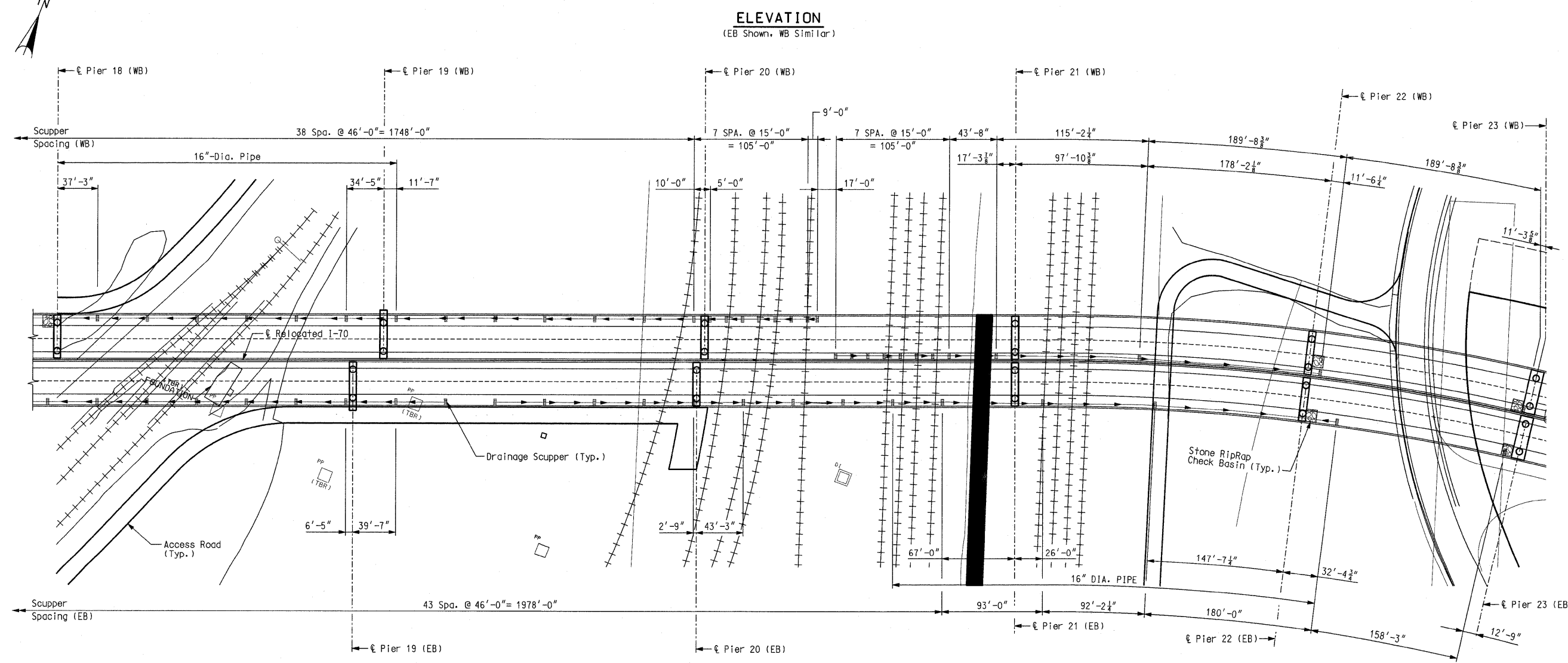
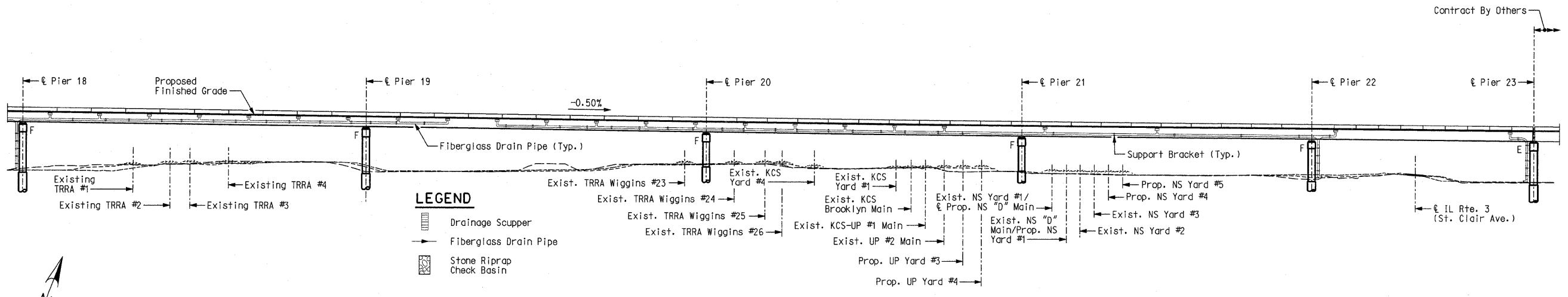
**General Notes:**  
 All pipe shall be 12" fiberglass unless otherwise noted.  
 Stone rip rap check basins will be located at each scupper outlet point for velocity dissipation. Check basin dimensions are given on Sheet 130.  
 Stone rip rap check basins shall be Class A6 (Special). (Roadway Item)  
 All drainage scuppers and grates shall be type DS-12, as shown on sheet 130.  
 Layout lengths are provided along edge of deck. Profile view shows drainage pipe slope for scuppers and pipe located in the eastbound lanes only.  
 Pipe slope shall follow the longitudinal slope of the roadway. Where a backslope is required for outletting purposes, the slope will be 0.5% min. See Drainage System Details for scupper and pipe connection information.

ILLINOIS APPROACH STRUCTURE  
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 MISSOURI HIGHWAYS  
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**DRAINAGE PLAN AND ELEVATION 1**



Note:  
Scuppers shall not outlet at Pier 19, 20, or 21 due to the proximity to the railroad tracks, and the existing Wiggins #2 yard footprint.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 128 of 152

DRAINAGE PLAN AND ELEVATION 2

Detailed JUL 2009  
Checked JUL 2009



F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jjolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
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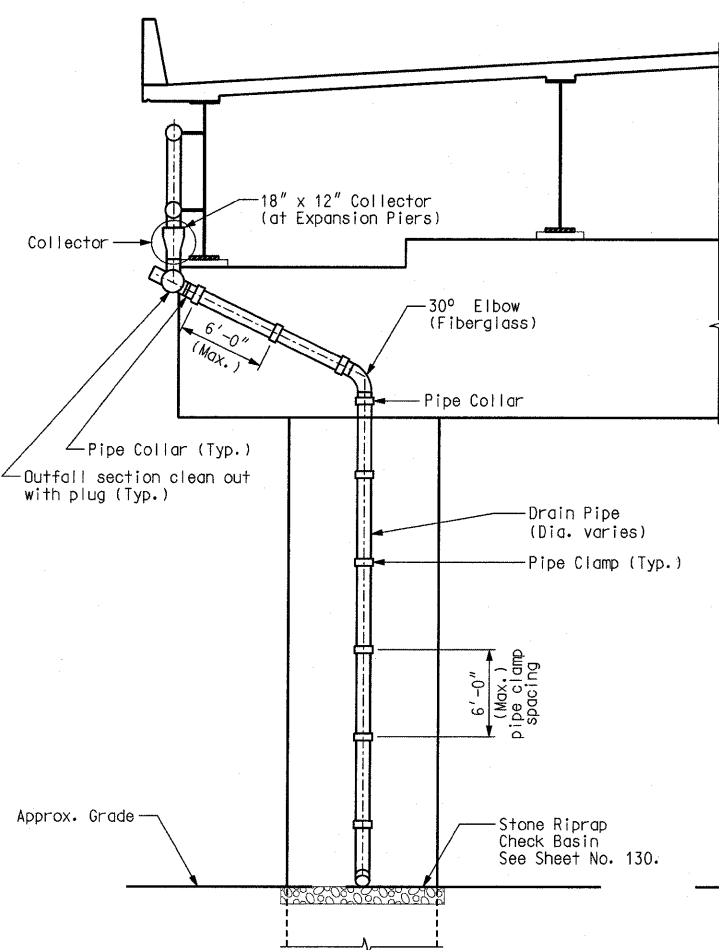
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

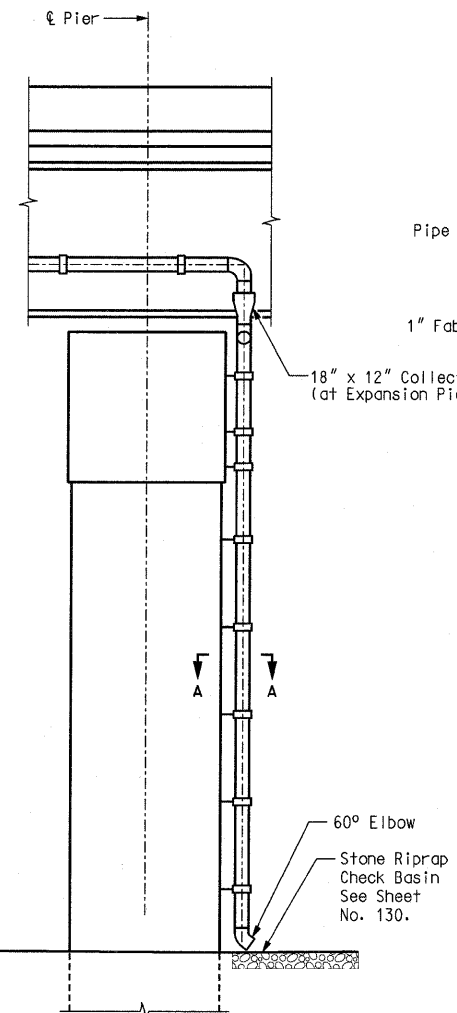
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY NO. 001270

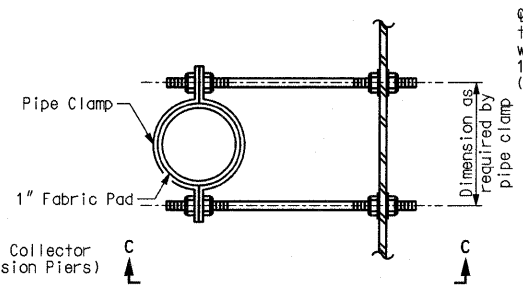
**CMT**  
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TELEPHONE (217) 787-8050  
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**ELEVATION  
SCUPPER OUTFALL**

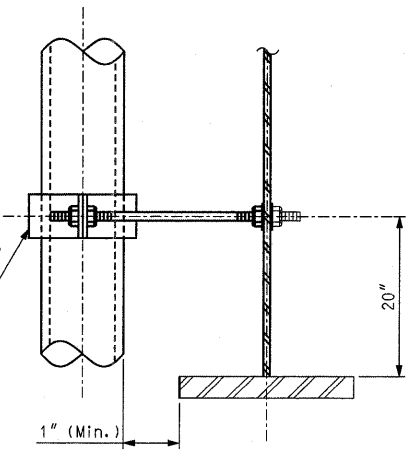


**END VIEW  
SCUPPER OUTFALL**

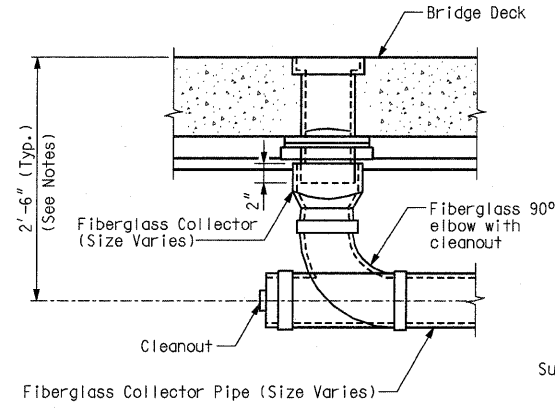


**SUPPORT BRACKET**

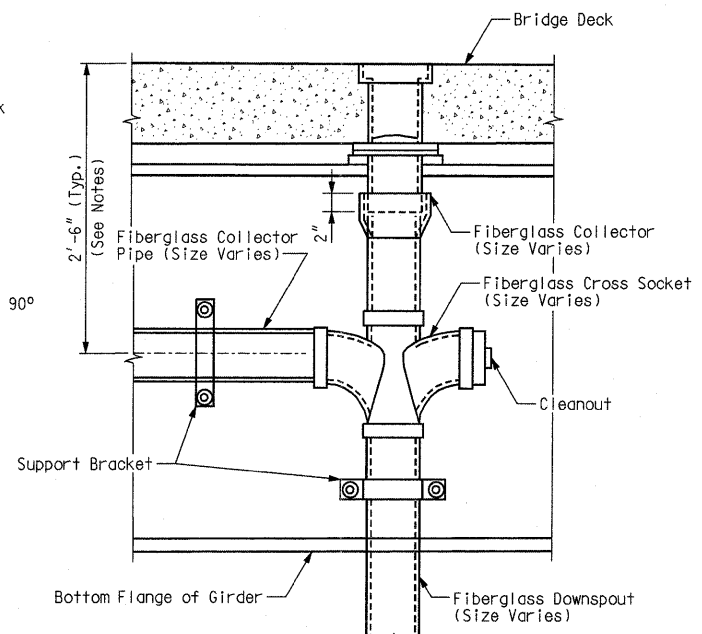
Ø 1/2" dia. steel stud bolts threaded 10" each end with 2 washers & locknut 11/16" dia. holes in web (May be drilled in field)



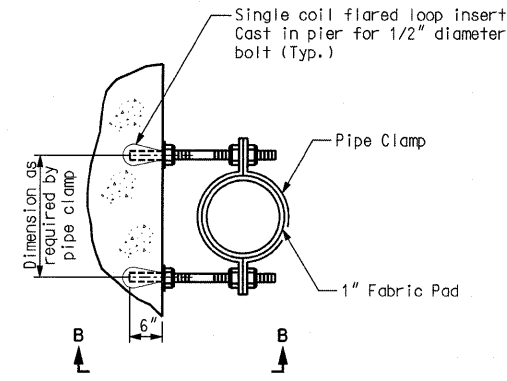
**VIEW C-C**



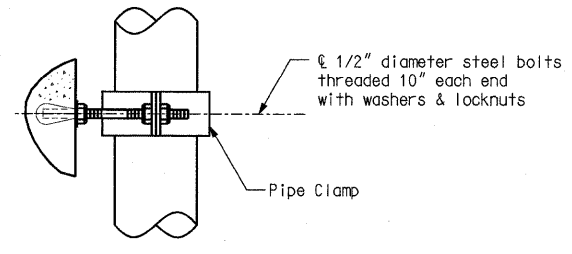
**COLLECTOR PIPE  
DETAIL - END SECTION**



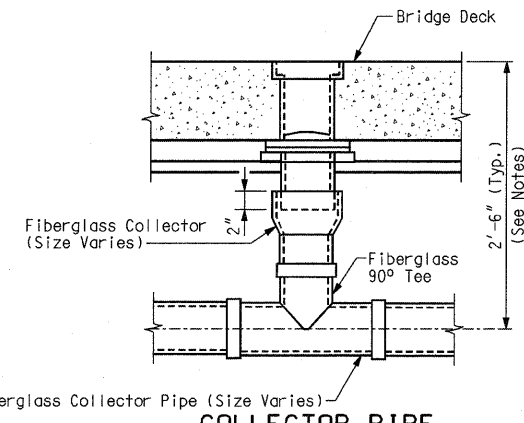
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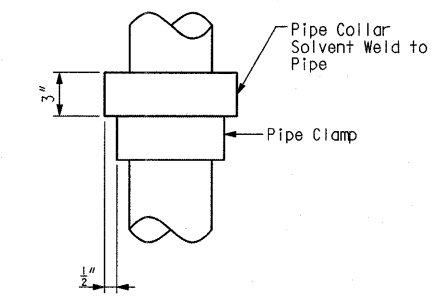
**SECTION A-A**



**VIEW B-B**



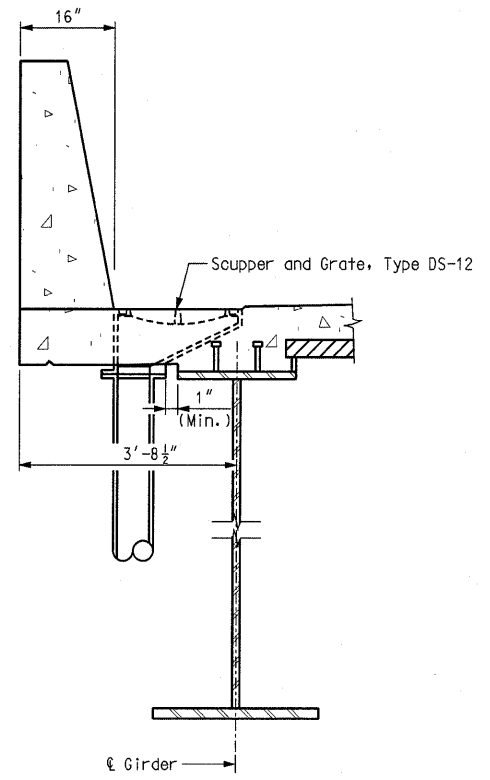
**COLLECTOR PIPE  
DETAIL - TEE SECTION**



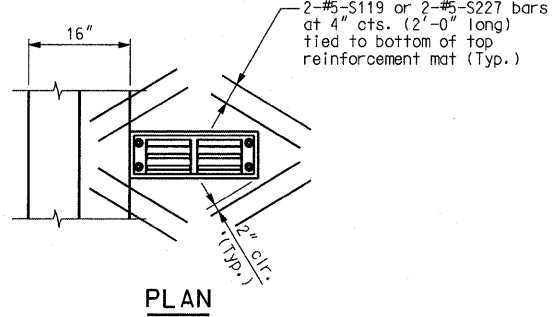
**PIPE COLLAR DETAIL**

**Notes:**  
In areas where the pipe collector system flows opposite the bridge profile, the typical height shall vary as necessary to meet a minimum 0.5% slope to drain.  
All downspouts from scuppers shall be 6" unless otherwise noted.  
All fiberglass collectors and pipe clamps shall match the pipe size(s) shown in the drainage plan and profile.  
All pipe clamps, fabric pads inserts, collectors and other work necessary to install the system shall be considered completely covered by bid item, Drainage System (On Structure).  
All fiberglass pipe shall conform to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. Color shall be concrete gray.



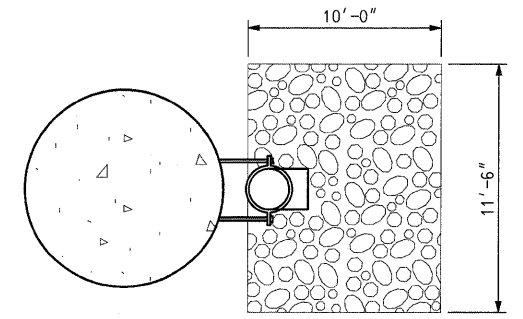


SCUPPER TYPICAL SECTION



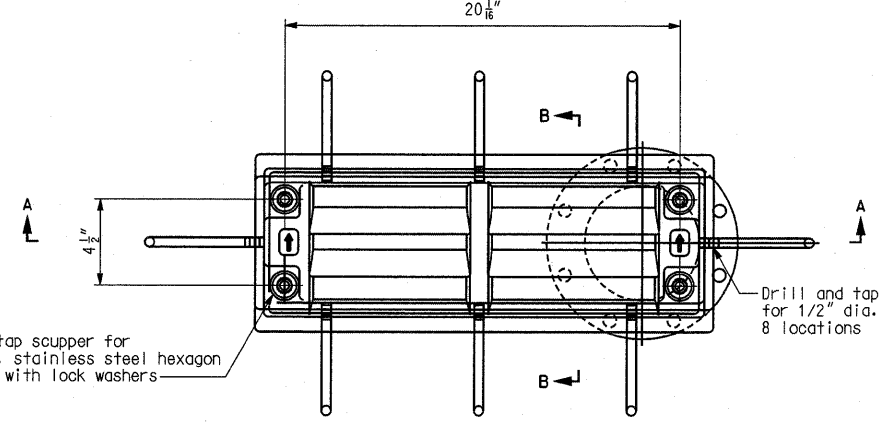
PLAN

Note: Shift transverse reinforcement and cut longitudinal reinforcement to clear drainage scuppers. Coat exposed ends with epoxy paint. Cost shall be incidental to drainage system.

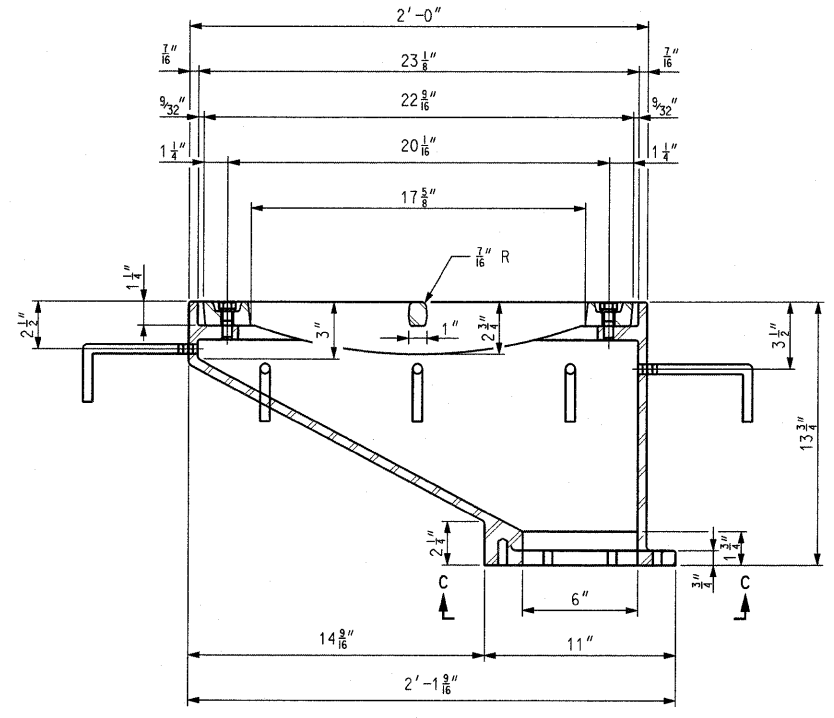


STONE RIPRAP CHECK BASIN DETAIL

Drill and tap scupper for 4 1/2" dia. stainless steel hexagon head bolts with lock washers

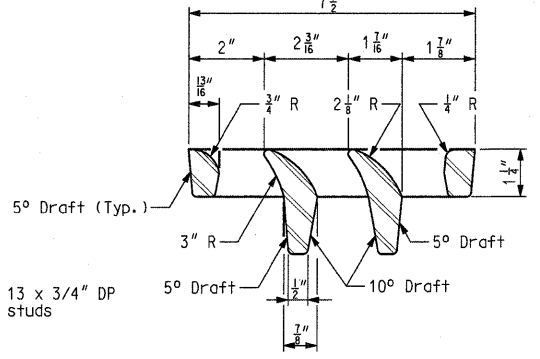


PLAN



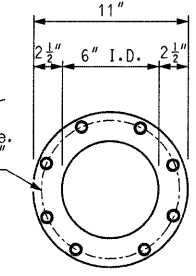
SECTION A-A

SCUPPER AND GRATE TYPE DS-12

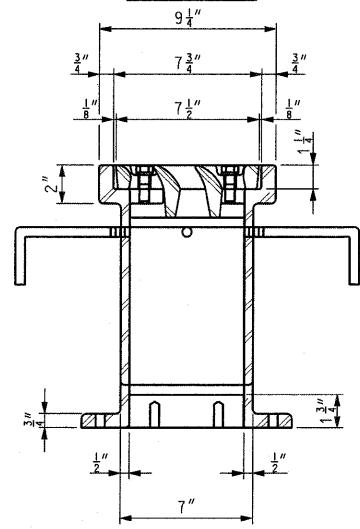


VANE GRATE DETAIL

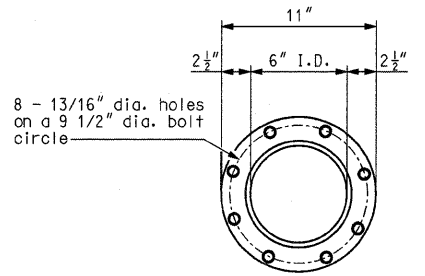
Drill and tap 8 holes for 3/4" - 10 UNC bolts on a 9 1/2" dia. bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)



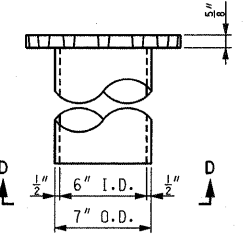
VIEW C-C



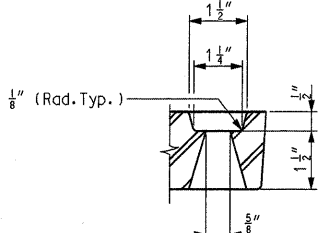
SECTION B-B



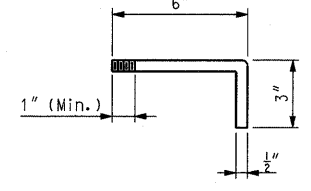
VIEW D-D



DOWNSPOUT



GRATE BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Notes:  
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.  
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to Sec 1080.  
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel in accordance with Sec 1080.  
 All castings shall conform to the requirements of AASHTO M 306.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.  
 Payment for scupper, grate, downspout, and all hardware shall be considered completely covered by the contract price for Drainage System (On Structure).  
 Payment for stone riprap check basin shall be made under pay item Stone Riprap, Class A6 (Special), per square yard (Roadway Item).

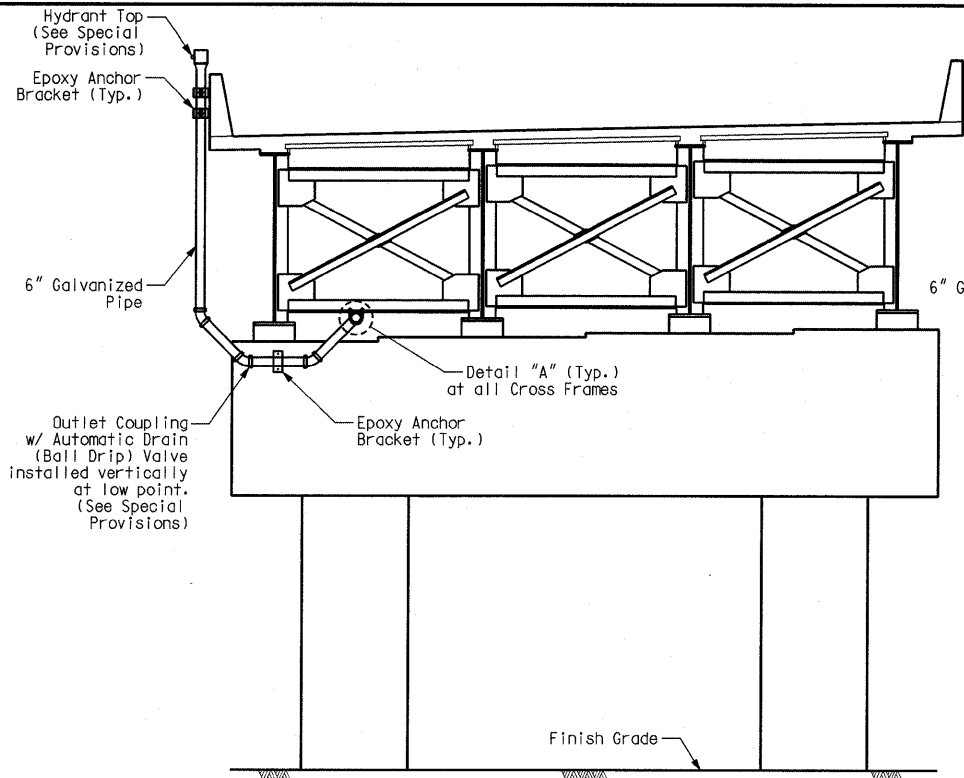


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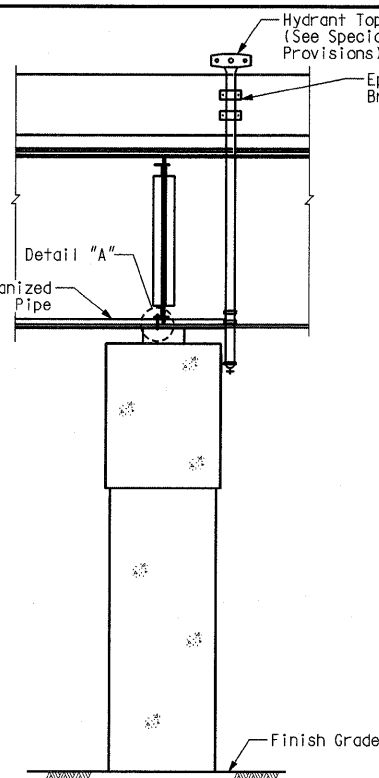


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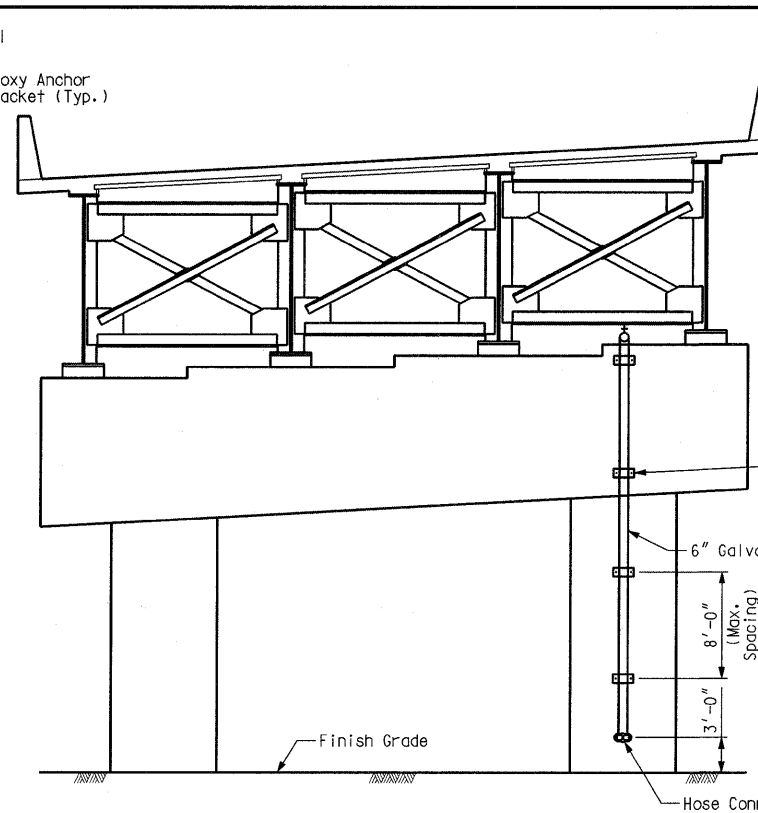




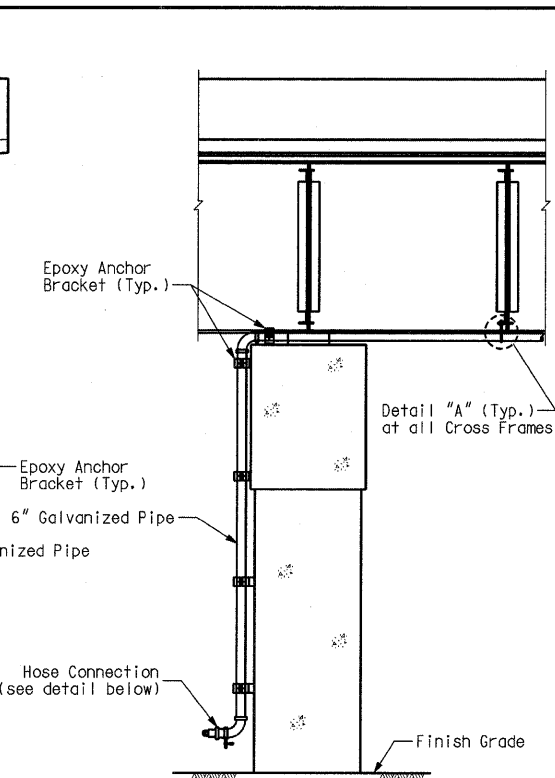
ELEVATION LOOKING EAST  
AT PIER 18 WB



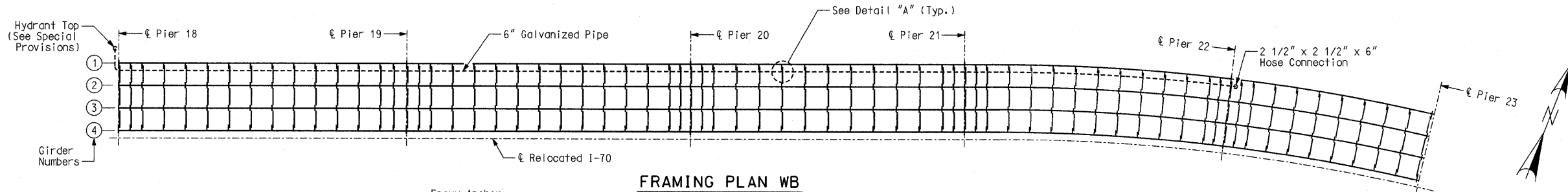
ELEVATION LOOKING SOUTH  
AT PIER 18 WB



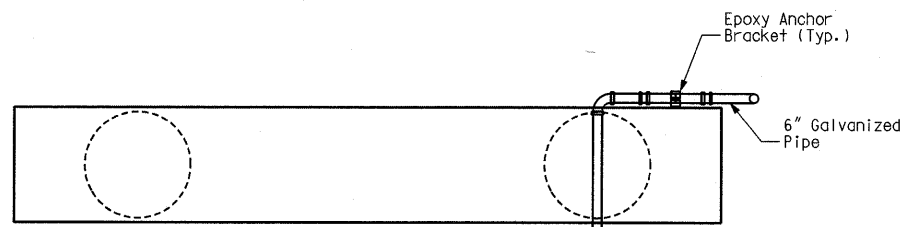
ELEVATION LOOKING WEST  
AT PIER 22 WB



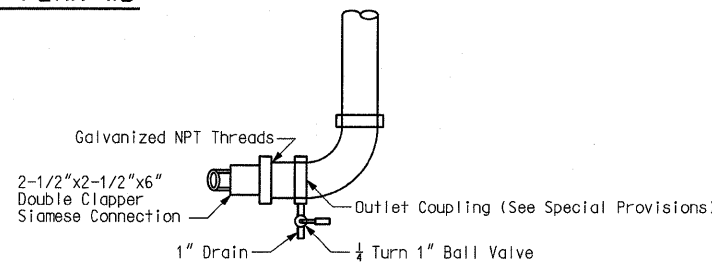
ELEVATION LOOKING SOUTH  
AT PIER 22 WB



FRAMING PLAN WB



PLAN AT PIER 18 WB

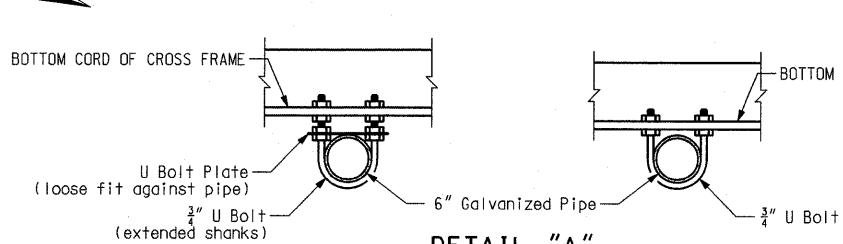


HOSE CONNECTION

- General Notes:
- Payment for pipe, fittings, hangers, anchors and all hardware shall be included in pay item "Standpipe".
  - Standpipe shall follow slope of Cross Frames from Pier 18WB to Sta. 120+00 and shall have a slope of at least 0.15% from Sta. 120+00 to Pier 22WB, to ensure drainage of standpipe.
- Structural Notes:
- Steel shall conform to the following grades:  
All Angles, Base Plates, Conn. Plates (U.N.O.) ----- A36  
U Bolts ----- A307
  - Fabricator is responsible for the design of connections not designed on the drawings. Any connection that is not shown or is not completely detailed on the structural drawings shall be designed, detailed and sealed by a structural engineer, licensed in the state of Illinois.
  - The minimum plate thickness shall be 3/8". The minimum bolt diameter shall be 3/4". The minimum weld shall be 3/16" and the minimum design load on any connection shall be 10k unless noted otherwise.
  - All elements shall be hot dip galvanized.
- Epoxy Anchors:
- Epoxy anchors to be provided shall have the following embedments and working loads (U.N.O.)

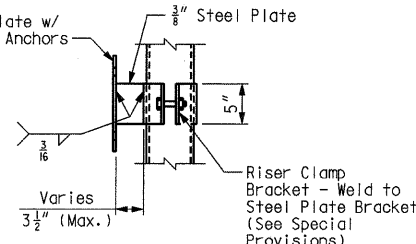
	Anchor Dia.	Min. Emb.	Tension Cap (lb.)	Shear Cap (lb.)
Concrete	3/4"	6 5/8"	7,400	4,300

- Pipe and Fittings:
- All pipe shall be schedule 40 hot-dipped galvanized meeting the requirements of ASTM-A53, NFPA 14, and shall be Factory Mutual approved. Piping shall have grooved ends compatible with the couplings and prepared per the couplings manufactures specifications. All fittings shall be standard grooved end cast ductile iron conforming to ASTM A-536, Grade 64-45-12 and compatible with the couplings. Fittings shall be hot-dipped galvanized in accordance with Sec 1080.

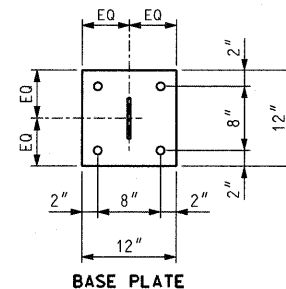


DETAIL "A"

Note A: Extend shanks as needed to provide required slope (See General Note 2). Provide U Bolt Plate when clearance allows.



ELEVATION



BASE PLATE

EPOXY ANCHOR BRACKET

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 131 of 152

DRY STANDPIPE

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjelliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
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REVISED -	
REVISED -	
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REVISED -	

ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
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NO. 001270

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ENGINEERING CORPORATION - 000631

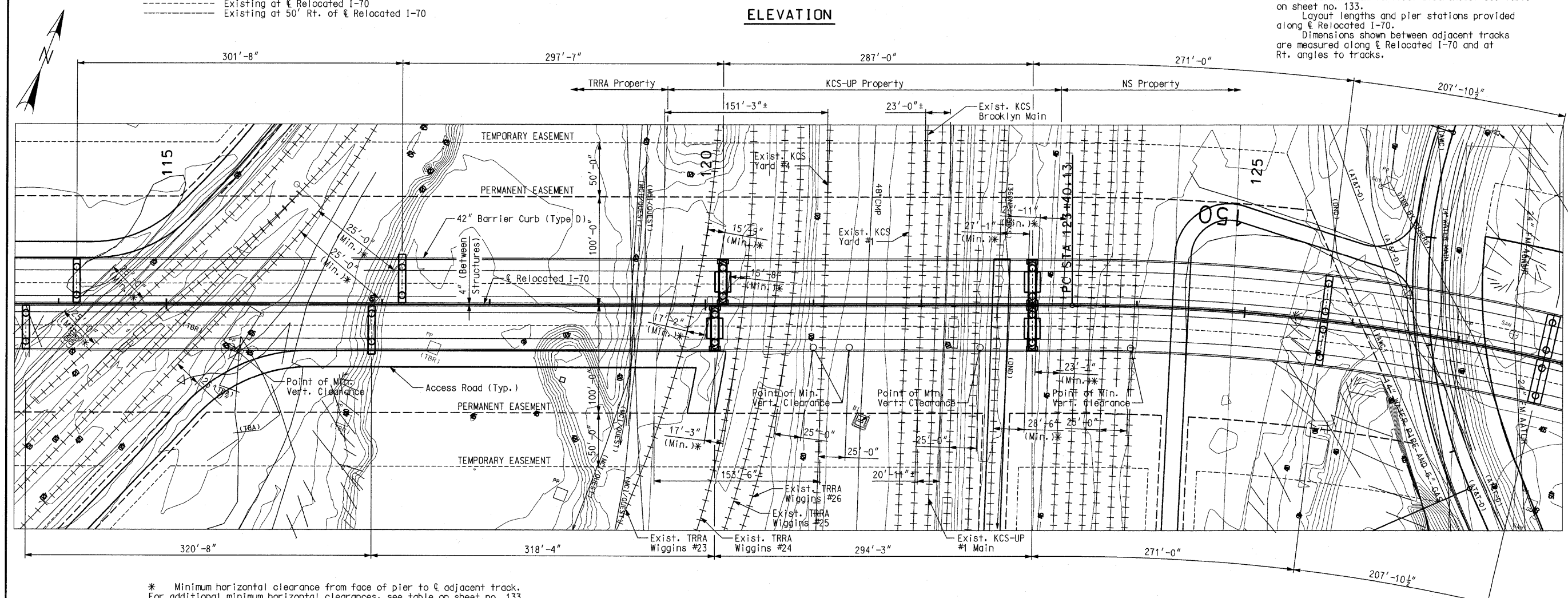
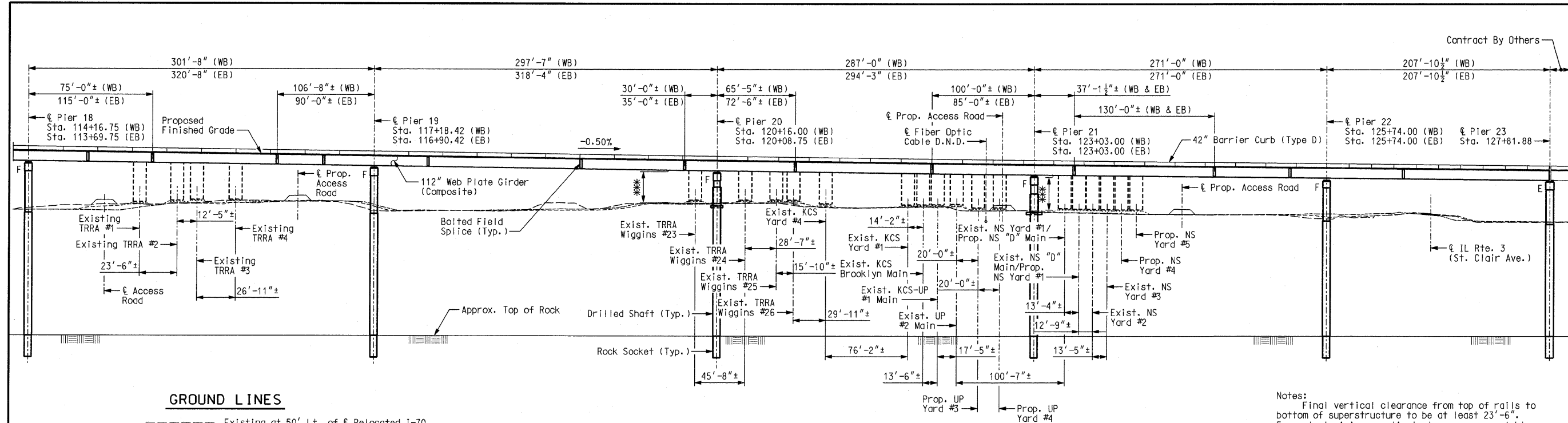
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
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FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
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ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
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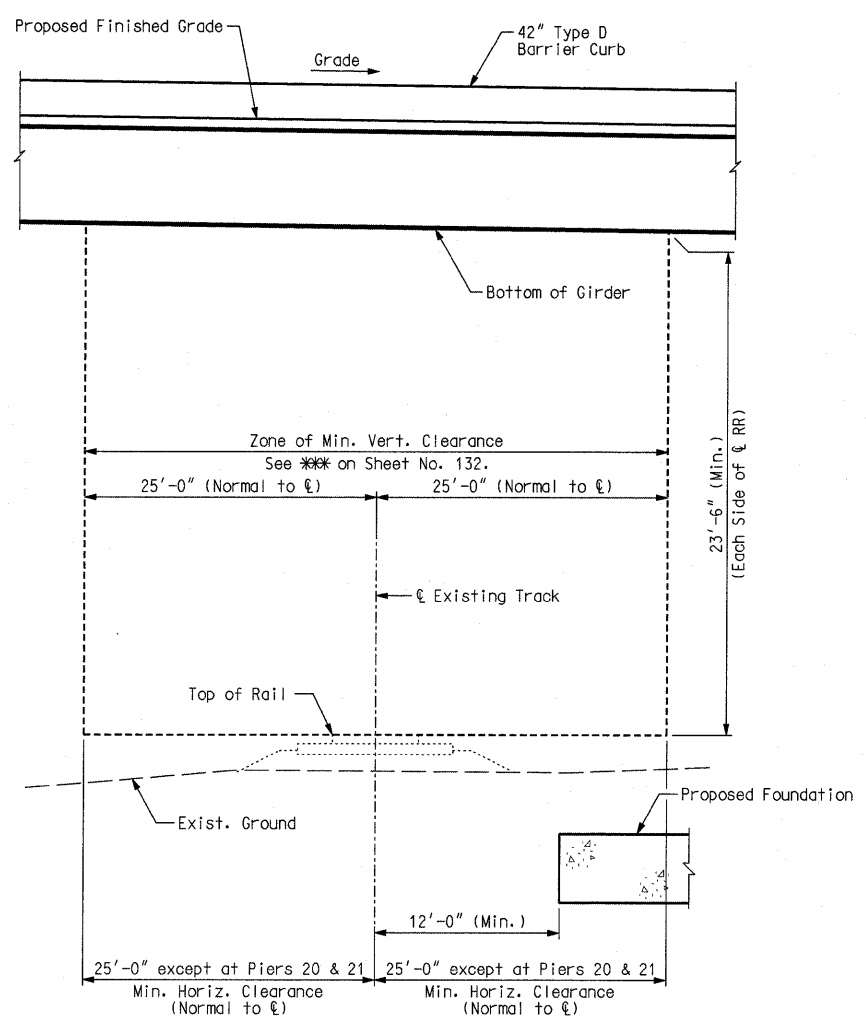
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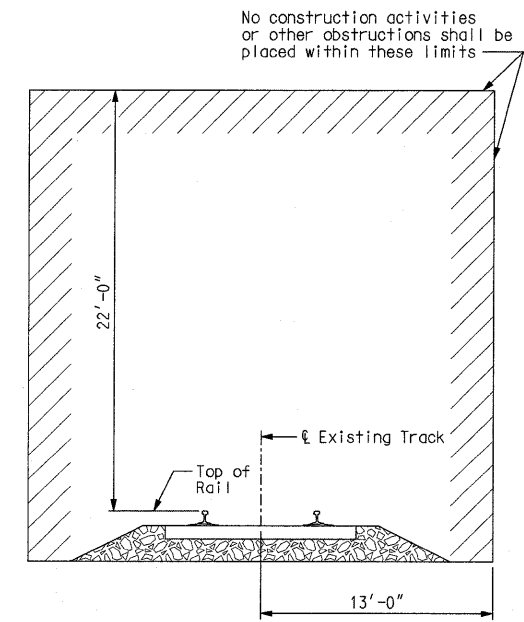
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Note: This drawing is not to scale. Follow dimensions.

Sheet No. 132 of 152



RR CLEARANCE DETAIL



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE  
(Normal to Centerline of Track) (Except at Pier 20)

**SUMMARY OF ACTUAL MIN. VERTICAL CLEARANCE**

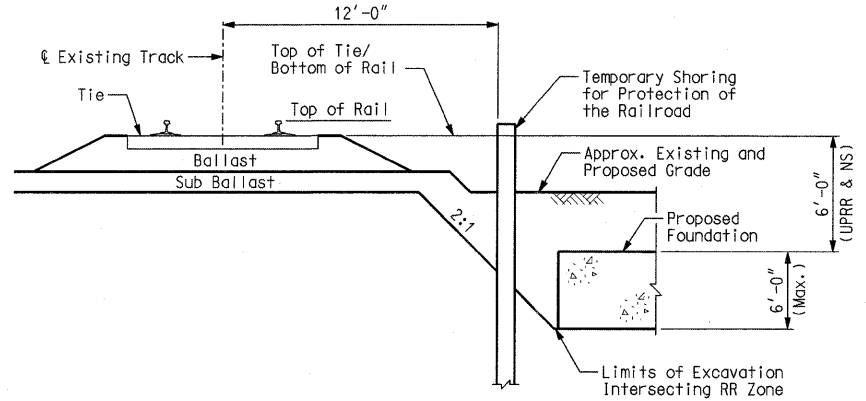
Track	Minimum Vertical Clearance (ft)	Location of Minimum Vertical Clearance
TRRA #1	37.045	WB Girder 1
TRRA #2	36.773	WB Girder 1
TRRA #3	36.457	WB Girder 1
TRRA #4	36.163	WB Girder 1
Wiggins #23	35.064	WB Girder 1
Wiggins #24	34.522	EB Girder 8
Wiggins #25	33.560	EB Girder 8
Wiggins #26	33.472	EB Girder 8
KCS #4	38.170	EB Girder 8
KCS Yard Track #1	37.151	EB Girder 8
KCS Brooklyn	37.031	EB Girder 8
U.P. #1	36.613	EB Girder 8
U.P. #2	36.550	EB Girder 8
NS Yard #1	41.049	EB Girder 8
NS "D" #1	41.262	EB Girder 8
NS Yard #2	41.011	EB Girder 8
NS Yard #3	41.493	EB Girder 8
NS Yard #4	Proposed	n/a
NS Yard #5	Proposed	n/a
IL Route 3		
SB EOP	40.287	EB Girder 8
Centerline	41.211	EB Girder 8
NB EOP	42.893	EB Girder 8

**SUMMARY OF ACTUAL MIN. HORIZONTAL CLEARANCES**

Track	Pier	Min. Horiz. Clearance From Centerline of Track to Face of Pier	Min. Horiz. Clearance From Centerline of Track to Footing
Wiggins #23	20 WB	15'-9"	13'-4"
Wiggins #23	20 EB	17'-2"	15'-0"
Wiggins #24	20 WB	15'-8"	12'-10"
Wiggins #24	20 EB	17'-3"	14'-7"
Wiggins #24	21 WB	259'-8"	256'-5"
Wiggins #24	21 EB	263'-6"	260'-5"
Wiggins #25	20 WB	44'-3"	41'-4"
Wiggins #25	20 EB	45'-10"	43'-3"
Wiggins #25	21 WB	231'-5"	228'-2"
Wiggins #25	21 EB	235'-0"	231'-11"
Wiggins #26	20 WB	60'-0"	57'-1"
Wiggins #26	20 EB	61'-8"	59'-0"
Wiggins #26	21 WB	215'-8"	212'-5"
Wiggins #26	21 EB	219'-2"	216'-1"
KCS #4	20 WB	89'-10"	86'-6"
KCS #4	20 EB	95'-8"	92'-4"
KCS #4	21 WB	188'-4"	184'-11"
KCS #4	21 EB	189'-9"	186'-4"
KCS Yard Track #1	20 WB	166'-1"	162'-9"
KCS Yard Track #1	20 EB	171'-10"	168'-6"
KCS Yard Track #1	21 WB	112'-0"	108'-8"
KCS Yard Track #1	21 EB	113'-6"	110'-2"
KCS Brooklyn	20 WB	180'-3"	176'-11"
KCS Brooklyn	20 EB	186'-0"	182'-8"
KCS Brooklyn	21 WB	97'-11"	94'-6"
KCS Brooklyn	21 EB	99'-4"	96'-0"
KCS-UP Main #1	20 WB	193'-8"	190'-4"
KCS-UP Main #1	20 EB	199'-6"	196'-2"
KCS-UP Main #1	21 WB	84'-5"	81'-0"
KCS-UP Main #1	21 EB	85'-11"	82'-6"

General Notes:

- The proposed grade separation project shall not increase the quantity and/or characteristics of the flow in the TRRA, NS, UP and KCS ditches and/or drainage structures.
- The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.
- All shoring systems that impact the TRRA, NS, UP and KCS operations and/or support the Railroad's embankment shall be designed and constructed per current Railroad Guidelines for Temporary Shoring. Shoring systems shall be paid for under "Temporary Shoring".
- All demolitions within the TRRA, NS, UP and KCS right-of-way and/or demolition that may impact the Railroad's tracks or operations shall be in compliance with the Railroad's Demolition Guidelines.
- Erection over the TRRA, NS, UP and KCS right-of-way shall be designed to cause no interruption to the Railroad's operation, enabling the track(s) to remain open to traffic per the Railroad's requirements.
- Girders may not be set until notification is received from assigned flagman that a sufficient window of time is available. At least 1/2 of all bolts in each splice shall be placed prior to release of the girder.
- UP and NS Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all equipment.
- All permanent clearances shall be verified before project closing.
- Erosion control measures shall be implemented and maintained during construction to prevent siltation of Railroad ditches. In addition to IDOT requirements, such measures shall be subject to review and approval of the affected Railroads.
- Contractor is advised that turnaround space at ends of access roads is limited. Caution shall be exercised to avoid fouling tracks.

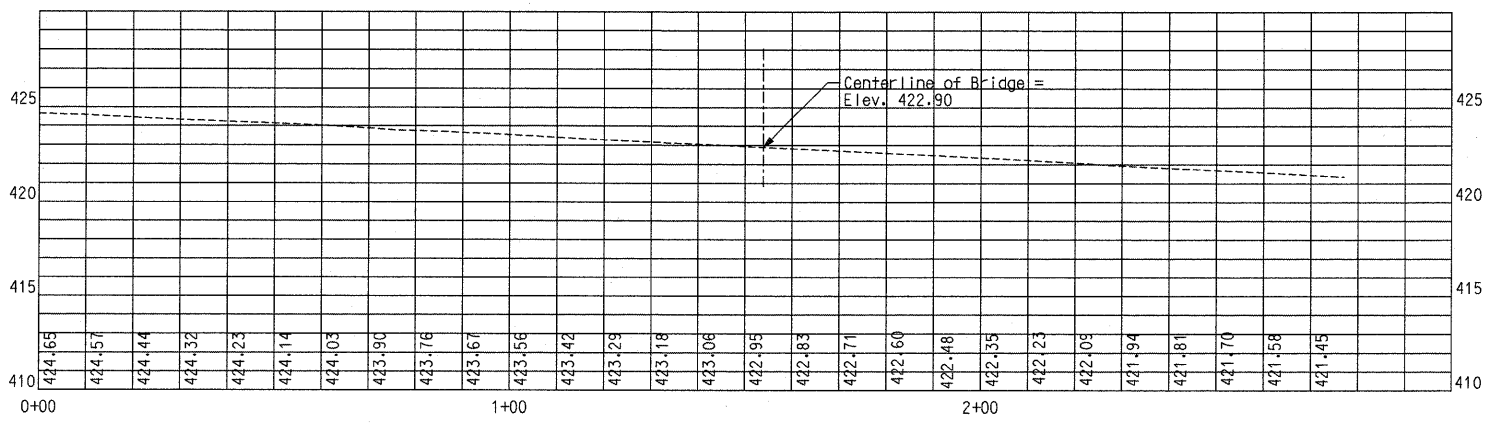


TYPICAL SHORING DETAIL

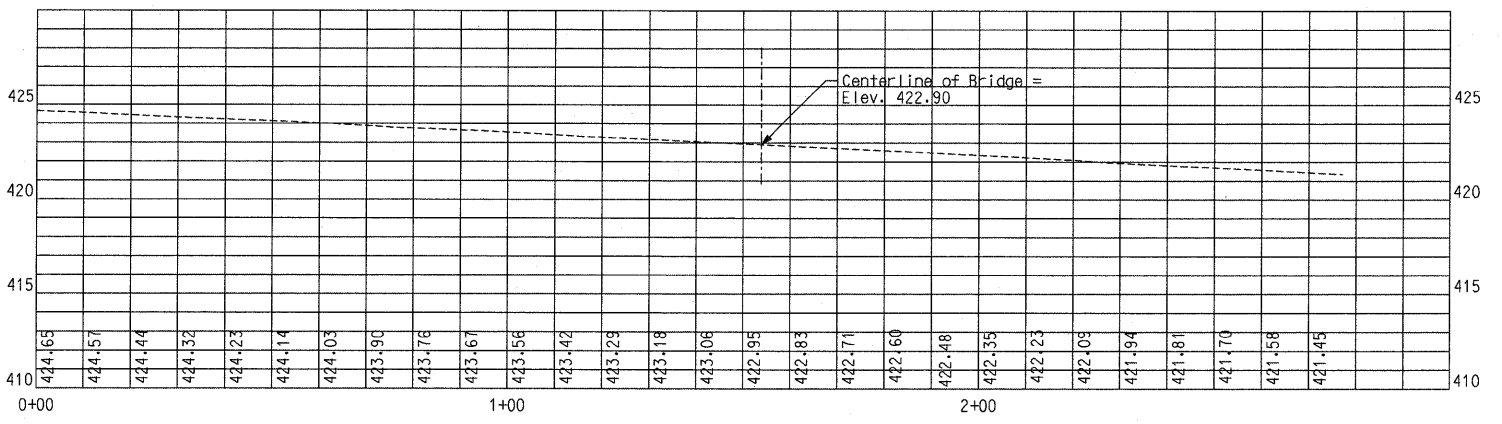
**DEPTH FROM BOTTOM OF RAIL TO TOP OF FOOTING**

Track	Pier	Depth
Wiggins #23	20 WB	5'-3 1/2"
Wiggins #23	20 EB	5'-0"
Wiggins #24	20 WB	5'-9 3/4"
Wiggins #24	20 EB	5'-7 3/4"

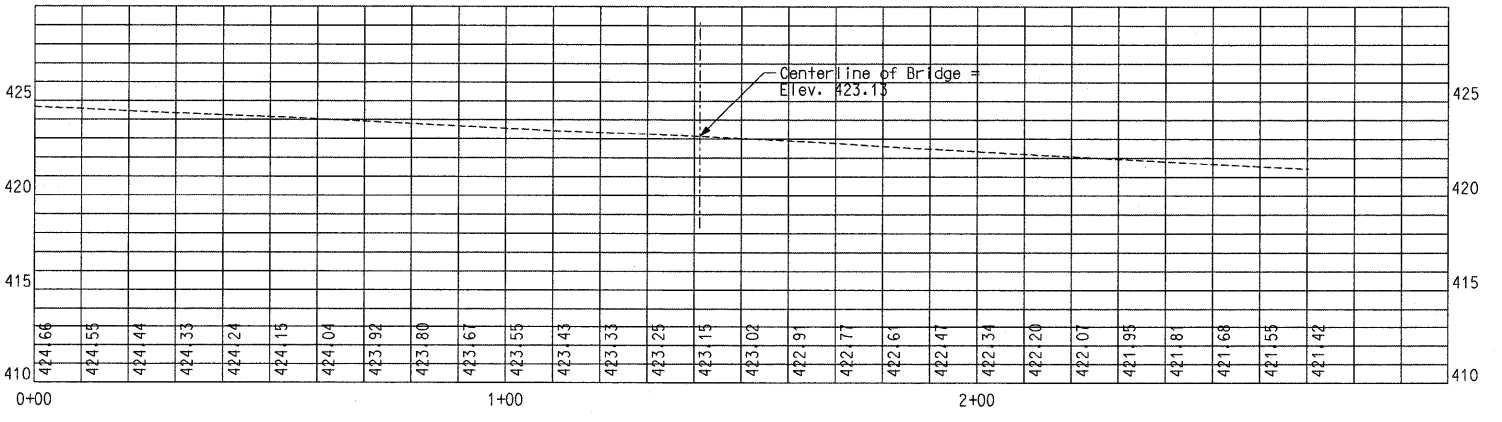
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT ILLINOIS	
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
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REVISED -	
REVISED -	
REVISED -	
REVISED -	



EXISTING TOP OF RAIL PROFILE  
TRRA #1



EXISTING TOP OF RAIL PROFILE  
TRRA #2



EXISTING TOP OF RAIL PROFILE  
TRRA #3

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 134 of 152

EXISTING TRACK PROFILES 1

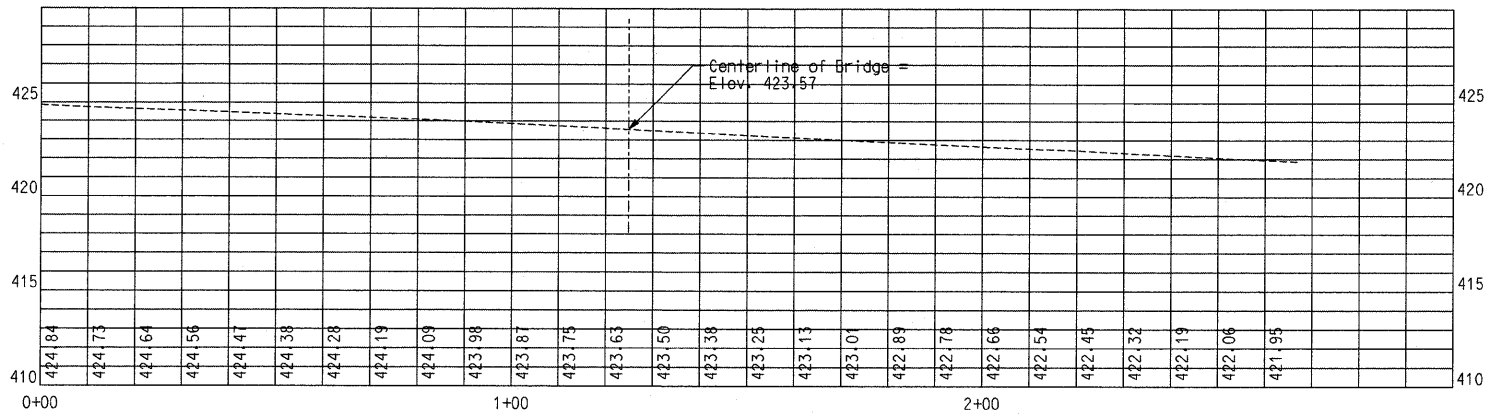
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

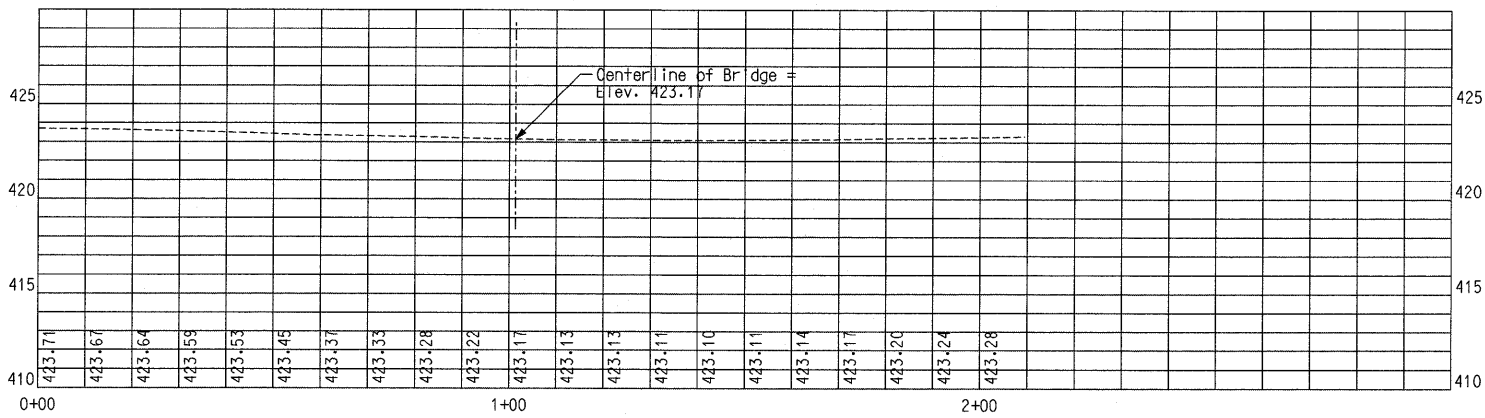
MISSOURI HIGHWAYS  
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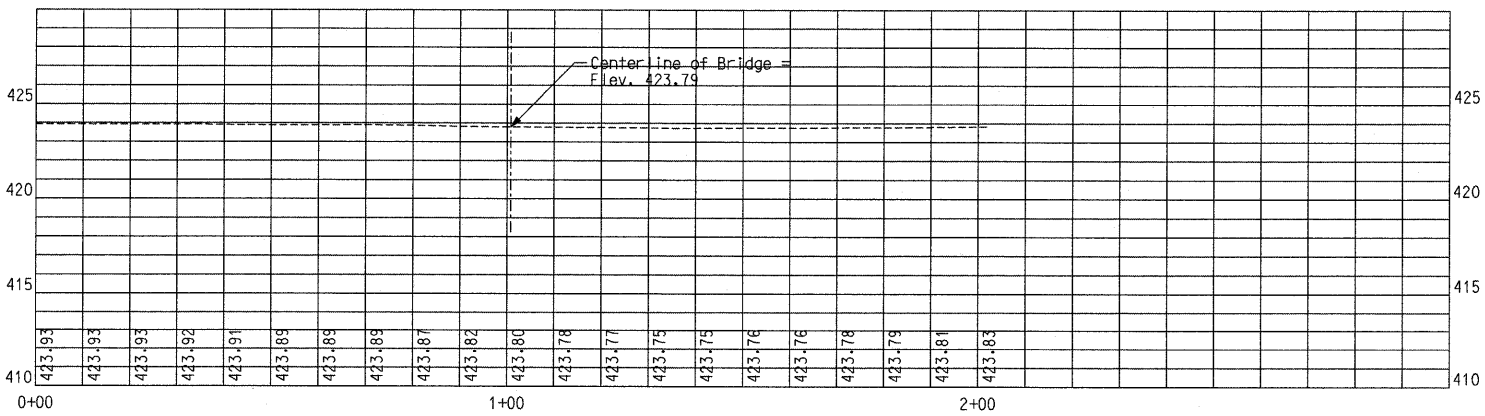
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EXISTING TOP OF RAIL PROFILE  
TRRA #4



EXISTING TOP OF RAIL PROFILE  
TRRA WIGGINS #23



EXISTING TOP OF RAIL PROFILE  
TRRA WIGGINS #24

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 135 of 152

EXISTING TRACK PROFILES 2

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CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

FED. AID PROJECT ILLINOIS

COUNTY ST. CLAIR

USER NAME = Jjelliff

PLOT SCALE = #SCALE#

PLOT DATE = 4/14/2010

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE



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CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

FED. AID PROJECT ILLINOIS COUNTY ST. CLAIR

USER NAME = Jjelliff  
PLOT SCALE = #SCALE#  
PLOT DATE = 4/14/2010

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CHECKED - CMT  
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REVISED -  
REVISED -  
REVISED -  
REVISED -

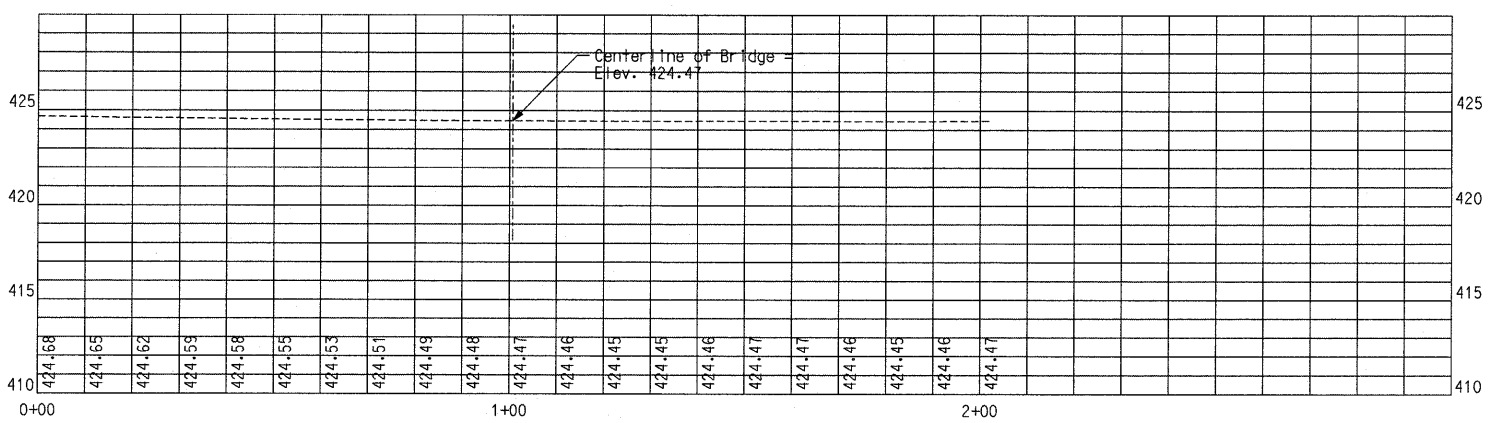
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

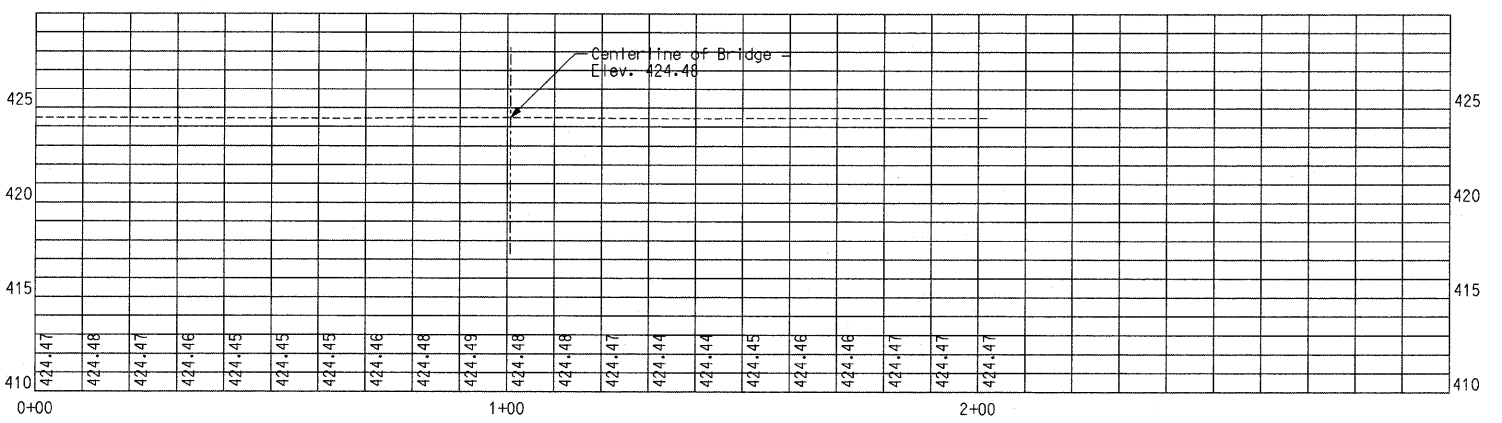
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EXISTING TOP OF RAIL PROFILE  
TRRA WIGGINS #25



EXISTING TOP OF RAIL PROFILE  
TRRA WIGGINS #26

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 136 of 152

EXISTING TRACK PROFILES 3

CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

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COUNTY ST. CLAIR

USER NAME = Jjolliff

PLOT SCALE = #SCALE#

PLOT DATE = 4/14/2010

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ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

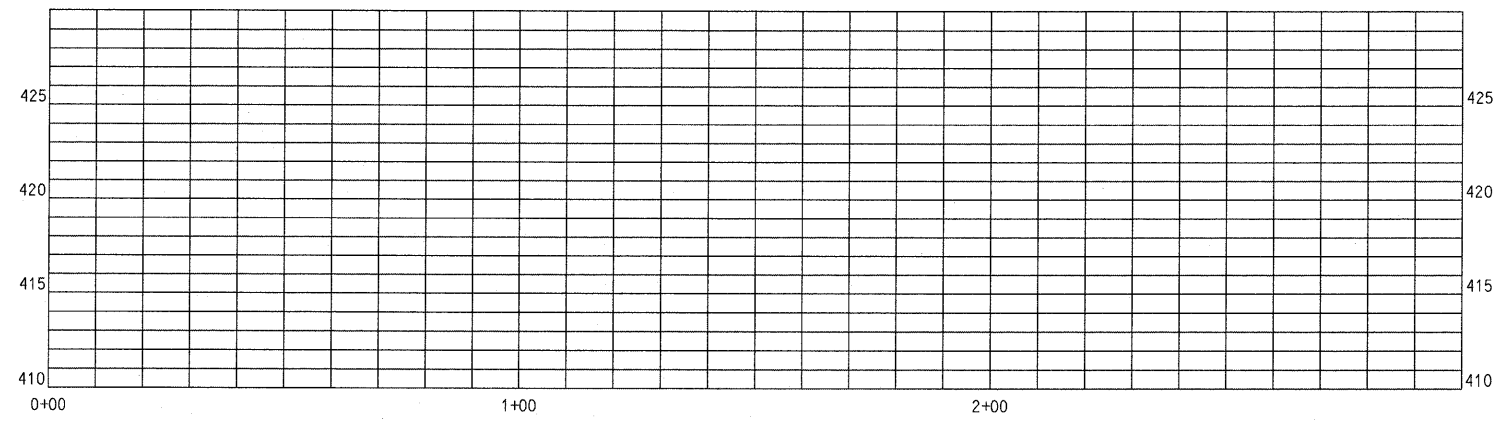
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HNTB

715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270

CMT

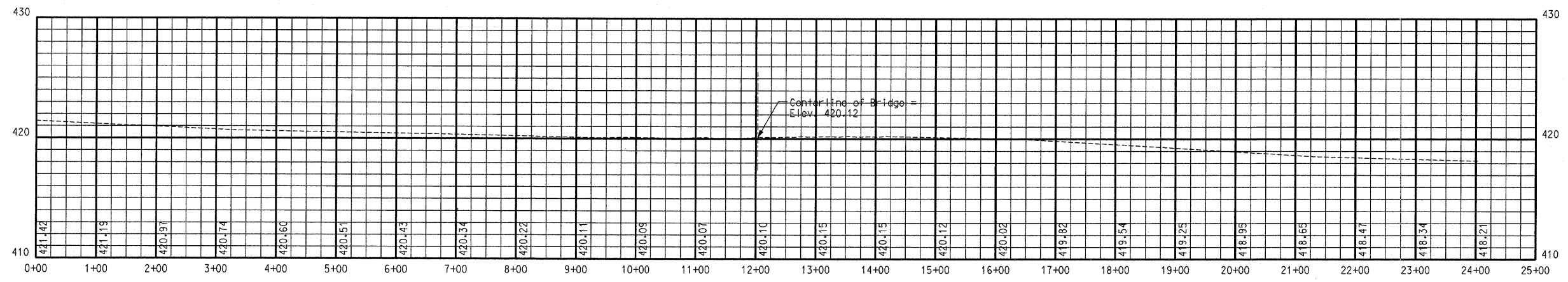
CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631



PROFILE NOT SURVEYED

KCS YARD #4

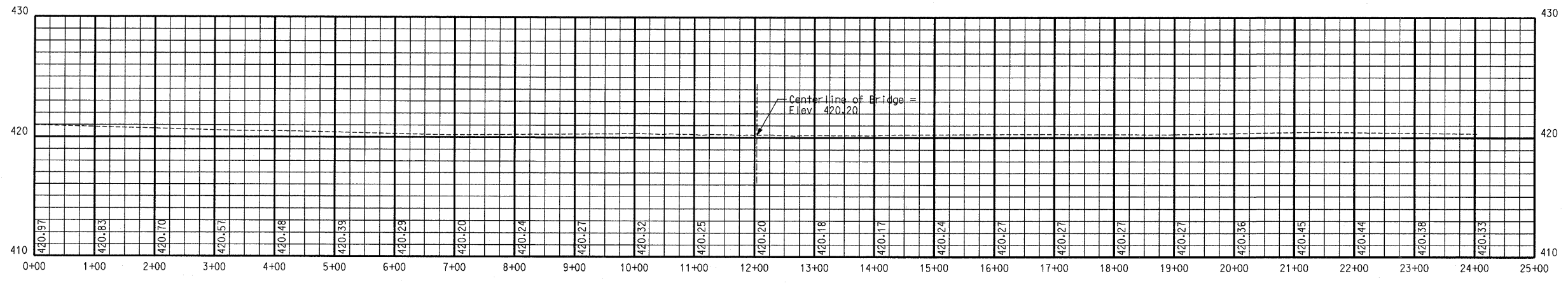
MP 279.34 (4895' from N. POS Trk. #4)



EXISTING TOP OF RAIL PROFILE

KCS YARD #1

MP 279.34 (4182' from N. POS Trk. #1)



EXISTING TOP OF RAIL PROFILE

KCS BROOKLYN MAIN

MP 279.34 (11,749' from Bissell Avenue At-Grade Crossing Centerline)

EXISTING TRACK PROFILES 4

Detailed JUL 2009 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 137 of 152



CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

FED. AID PROJECT ILLINOIS COUNTY ST. CLAIR

USER NAME = Jjolliff  
PLOT SCALE = #SCALE#  
PLOT DATE = 4/14/2010

DESIGNED - HNTB  
CHECKED - CMT  
DRAWN - CMT / HNTB

REVISED -  
REVISED -  
REVISED -  
REVISED -

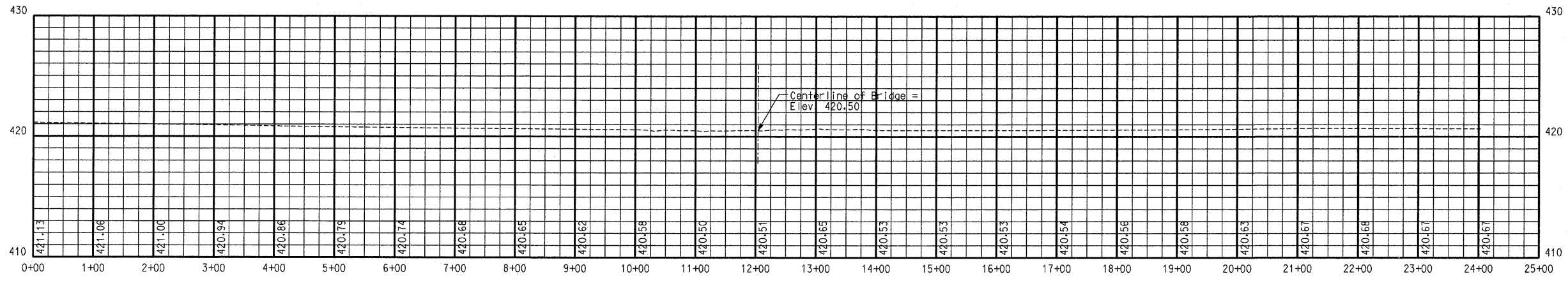
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

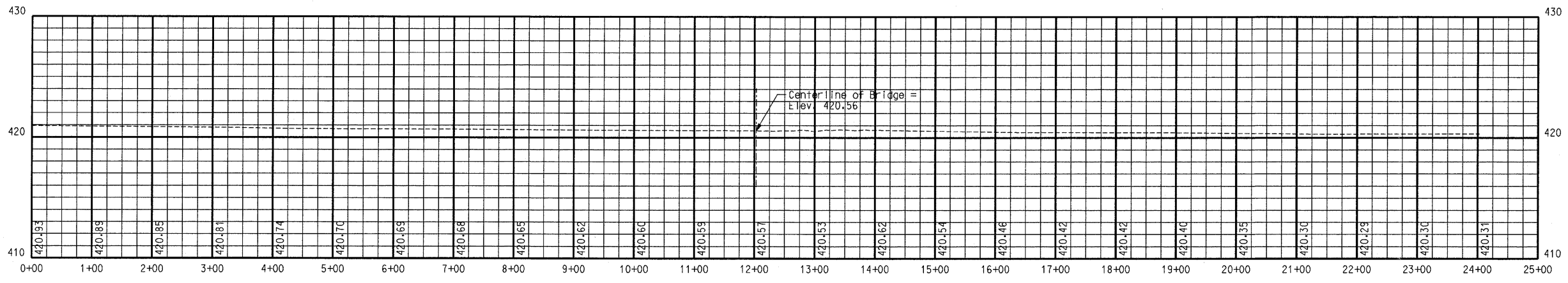
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



EXISTING TOP OF RAIL PROFILE  
KCS-UP #1 MAIN



EXISTING TOP OF RAIL PROFILE  
UP #2 MAIN

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 138 of 152

EXISTING TRACK PROFILES 5

CONTRACT NO. 76D61

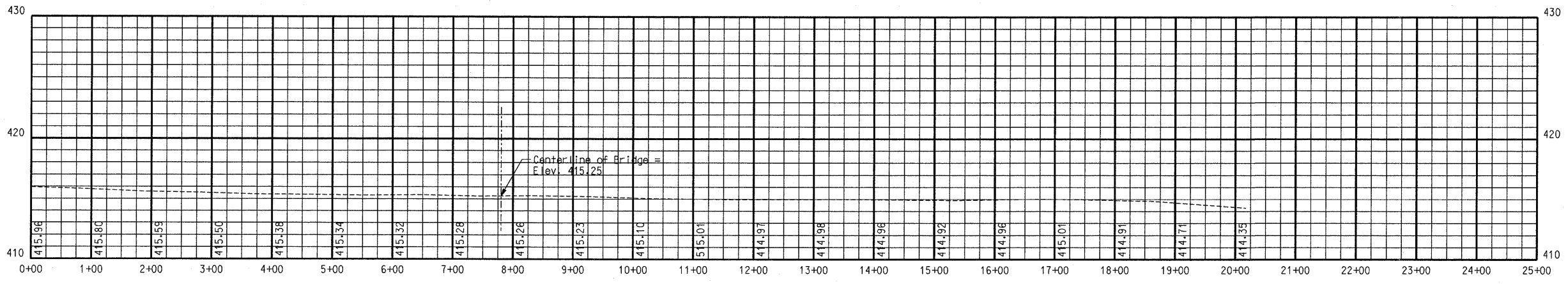
F.A. ROUTE 999 SECTION 82-1B-2  
FED. AID PROJECT ILLINOIS

COUNTY ST. CLAIR

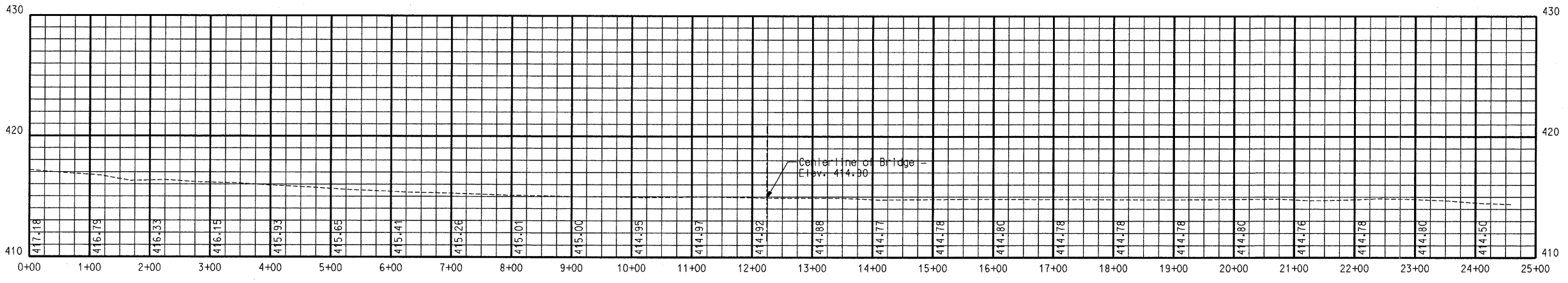
USER NAME = Jjelliff  
PLOT SCALE = #SCALE#  
PLOT DATE = 4/14/2010

DESIGNED - HNTB  
CHECKED - CMT  
DRAWN - CMT / HNTB

REVISED -  
REVISED -  
REVISED -  
REVISED -



EXISTING TOP OF RAIL PROFILE  
NS YARD #1



EXISTING TOP OF RAIL PROFILE  
NS "D" MAIN  
MP 3-4 + 31+12

ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRANFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 139 of 152

EXISTING TRACK PROFILES 6

CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

FED. AID PROJECT ILLINOIS COUNTY ST. CLAIR

USER NAME = Jjelliff  
PLOT SCALE = #SCALE#  
PLOT DATE = 4/14/2010

DESIGNED - HNTB  
CHECKED - CMT  
DRAWN - CMT / HNTB

REVISED -  
REVISED -  
REVISED -  
REVISED -

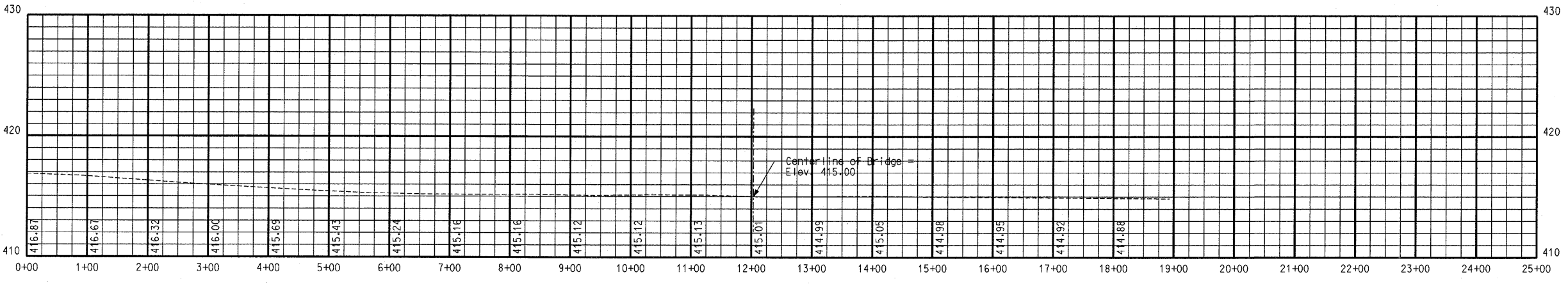
ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

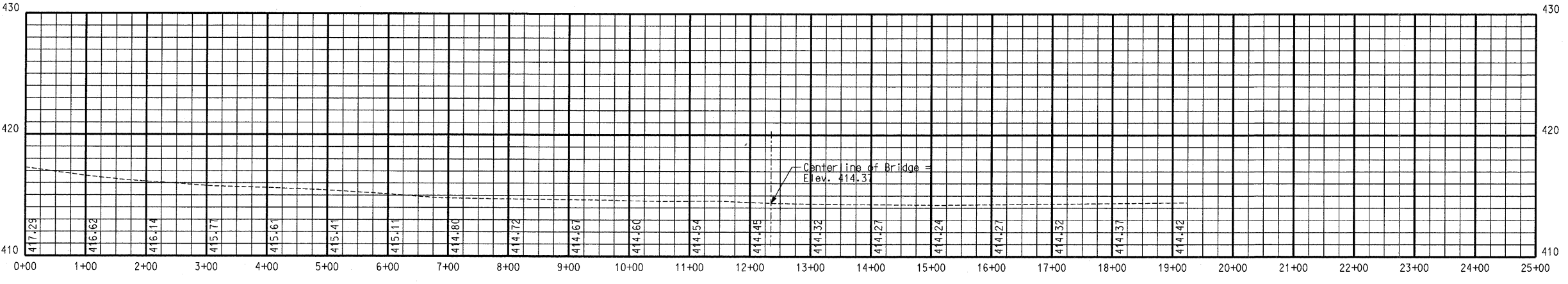
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



EXISTING TOP OF RAIL PROFILE  
NS YARD #2



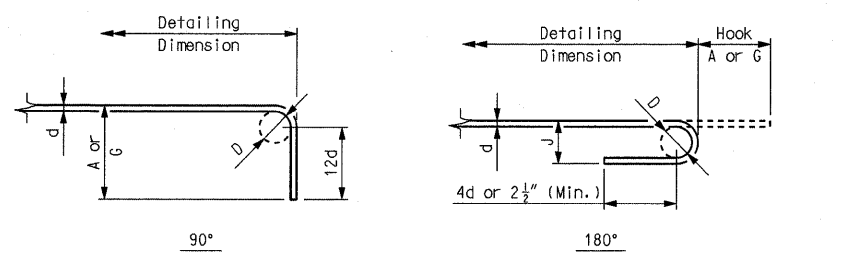
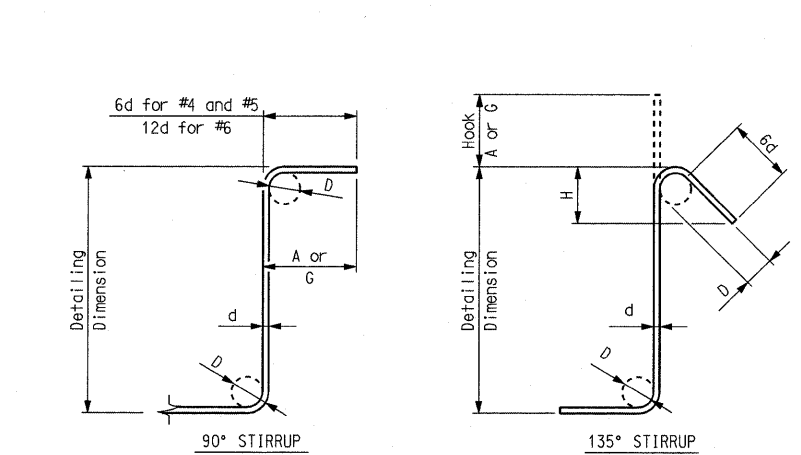
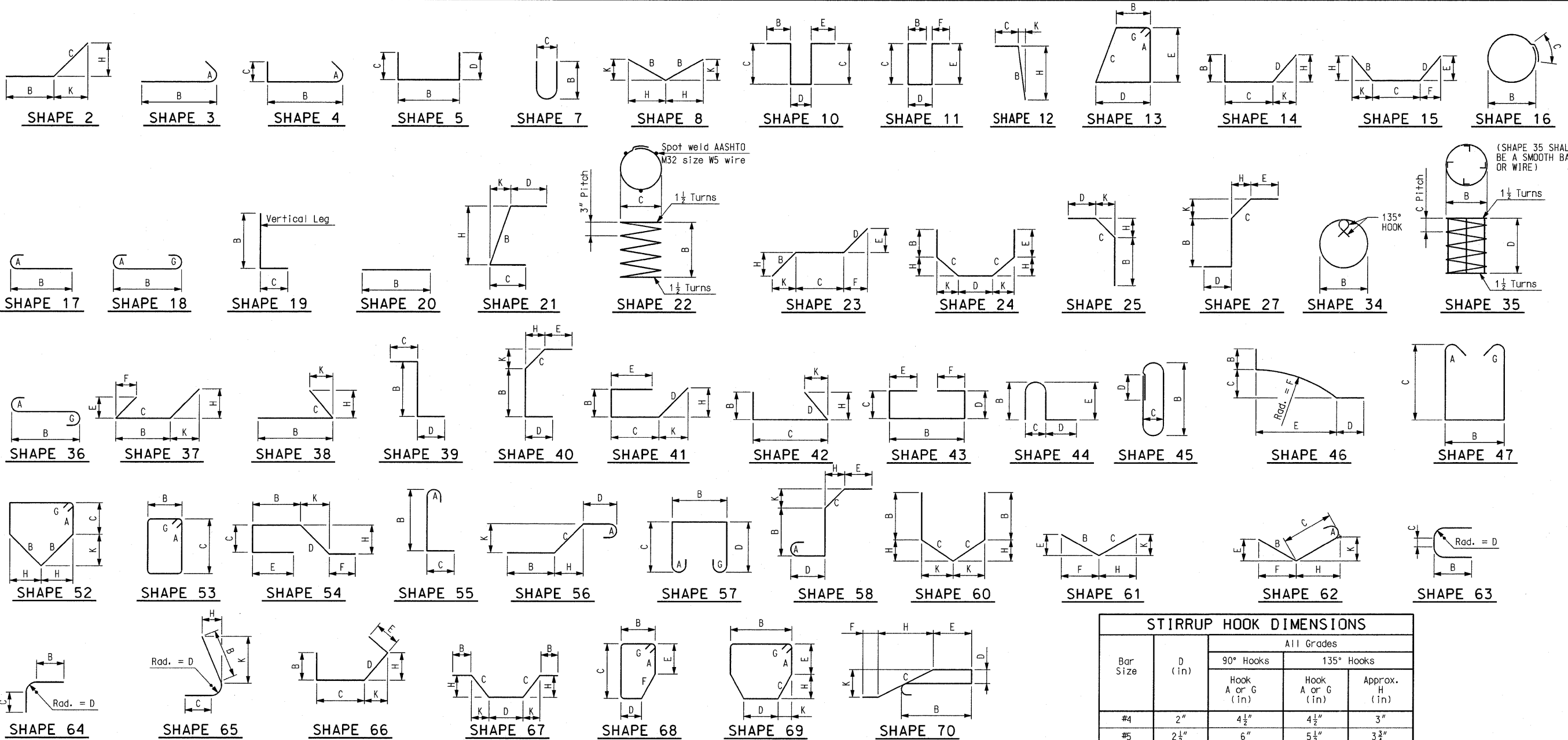
EXISTING TOP OF RAIL PROFILE  
NS YARD #3

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 140 of 152

EXISTING TRACK PROFILES 7



Notes:  
 All standard hooks and bends other than 180 degree are to be bent with same procedure as for 90 degree standard hooks.  
 Hooks and bends shall be in accordance with the procedures as shown on this sheet. Nominal lengths are based on out-to-out dimensions shown in bending diagrams and are listed for fabricators use. (Nearest inch)  
 Pay weights are based on actual lengths.  
 Unless otherwise noted, diameter "D" is the same for all bends and hooks on a bar.  
 E = Epoxy coated reinforcement.  
 S = Stirrup.  
 X = Bar is included in substructure quantities.  
 Actual lengths are measured along centerline bar to the nearest inch.  
 V = Bar dimensions vary in equal increments between dimensions shown on this line and the following line.  
 No. ea. = Number of bars of each length.  
 Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.  
 Reinforcing steel (Grade 60)  $f_y = 60,000$  psi.

STIRRUP HOOK DIMENSIONS				
Bar Size	D (in)	All Grades		
		90° Hooks		135° Hooks
		Hook A or G (in)	Hook A or G (in)	Approx. H (in)
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

END HOOK DIMENSIONS				
Bar Size	D (in)	All Grades		
		180° Hooks		90° Hooks
		Hook A or G (in)	J (in)	Hook A or G (in)
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 3/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"
#18	2'-0"	3'-0"	2'-4 1/2"	3'-5"

BAR BENDING DIAGRAMS

Detailed JUL 2009  
 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 141 of 152

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jj011ff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE  
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
 AND TRANSPORTATION COMMISSION

**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
 TELEPHONE (816) 472-1201  
 CERTIFICATE OF AUTHORITY  
 NO. 001270

**CMT**  
 CRAWFORD, MURPHY & TILLY, INC.  
 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631

**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K				
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				
<b>PIER 14 WB</b>																			
11	11H1400	Beam		20	X				39'-8"						39'-8"	39'-8"	2,318		
16	8H1401	Beam		20	X				39'-8"						39'-8"	39'-8"	1,695		
16	11H1402	Beam		18	X				42'-10"						42'-10"	42'-10"	3,641		
8	6H1403	Beam		20	X				19'-8"						19'-8"	19'-8"	236		
20	6H1404	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1400	Drilled Shaft		35	X				5'-6"	6"	133'-10"				4629'-1"	4629'-1"	9,656		
2	5P1401	Drilled Shaft & Column		35	X				5'-6"	3"	52'-1"				3606'-8"	3606'-8"	7,524		
36	5P1402	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
38	6U1400	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	1,441		
12	6U1401	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
38	6U1402	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,489		
12	6U1403	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1404	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
28	14V1400	Drilled Shaft		20	X				33'-3"						33'-3"	33'-3"	7,122		
28	14V1401	Drilled Shaft		20	X				35'-3"						35'-3"	35'-3"	7,551		
224	14V1402	Drilled Shaft		20	X				55'-0"						55'-0"	55'-0"	94,248		
56	11V1403	Column		17	X				49'-6"						51'-1"	51'-1"	15,199		
56	11V1404	Column		20	X				26'-7"						26'-7"	26'-7"	7,909		
24	W5W1400	Beam		22	X				18"	9 1/8"					26'-1"	26'-1"	105		
<b>PIER 14 EB</b>																			
11	11H1450	Beam		20	X				39'-8"						39'-8"	39'-8"	2,318		
16	8H1451	Beam		20	X				39'-8"						39'-8"	39'-8"	1,695		
16	11H1452	Beam		18	X				42'-10"						42'-10"	42'-10"	3,641		
8	6H1453	Beam		20	X				19'-8"						19'-8"	19'-8"	236		
20	6H1454	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1450	Drilled Shaft		35	X				5'-6"	6"	134'-10"				4663'-4"	4663'-4"	9,728		
2	5P1451	Drilled Shaft & Column		35	X				5'-6"	3"	51'-2"				3543'-11"	3543'-11"	7,393		
36	5P1452	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
38	6U1450	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	1,441		
12	6U1451	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
38	6U1452	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,489		
12	6U1453	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1454	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
28	14V1450	Drilled Shaft		20	X				34'-3"						34'-3"	34'-3"	7,336		
28	14V1451	Drilled Shaft		20	X				36'-3"						36'-3"	36'-3"	7,765		
224	14V1452	Drilled Shaft		20	X				55'-0"						55'-0"	55'-0"	94,248		
56	11V1453	Column		17	X				48'-2"						50'-2"	50'-2"	14,926		
56	11V1454	Column		20	X				26'-2"						26'-2"	26'-2"	7,785		
24	W5W1450	Beam		22	X				18"	9 1/8"					26'-1"	26'-1"	105		

**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K				
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				
<b>PIER 15 WB</b>																			
11	11H1500	Beam		20	X				39'-8"						39'-8"	39'-8"	2,318		
16	8H1501	Beam		20	X				39'-8"						39'-8"	39'-8"	1,695		
16	11H1502	Beam		18	X				42'-10"						42'-10"	42'-10"	3,641		
8	6H1503	Beam		20	X				19'-8"						19'-8"	19'-8"	236		
20	6H1504	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1500	Drilled Shaft		35	X				5'-6"	6"	133'-10"				4629'-1"	4629'-1"	9,656		
2	5P1501	Drilled Shaft & Column		35	X				5'-6"	3"	50'-6"				3498'-3"	3498'-3"	7,297		
36	5P1502	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
50	6U1500	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	1,896		
12	6U1501	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
50	6U1502	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,959		
12	6U1503	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1504	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
28	14V1500	Drilled Shaft		20	X				33'-3"						33'-3"	33'-3"	7,122		
28	14V1501	Drilled Shaft		20	X				35'-3"						35'-3"	35'-3"	7,551		
224	14V1502	Drilled Shaft		20	X				55'-0"						55'-0"	55'-0"	94,248		
56	11V1503	Column		17	X				47'-11"						49'-6"	49'-6"	14,728		
56	11V1504	Column		20	X				25'-10"						25'-10"	25'-10"	7,686		
24	W5W1550	Beam		22	X				18"	9 1/8"					26'-1"	26'-1"	105		
<b>PIER 15 EB</b>																			
11	11H1550	Beam		20	X				39'-8"						39'-8"	39'-8"	2,318		
16	8H1551	Beam		20	X				39'-8"						39'-8"	39'-8"	1,695		
16	11H1552	Beam		18	X				42'-10"						42'-10"	42'-10"	3,641		
8	6H1553	Beam		20	X				19'-8"						19'-8"	19'-8"	236		
20	6H1554	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1550	Drilled Shaft		35	X				5'-6"	6"	133'-10"				4629'-1"	4629'-1"	9,656		
2	5P1551	Drilled Shaft & Column		35	X				5'-6"	3"	50'-9"				3515'-5"	3515'-5"	7,333		
36	5P1552	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
50	6U1550	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	1,896		
12	6U1551	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
50	6U1552	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,959		
12	6U1553	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1554	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
28	14V1550	Drilled Shaft		20	X				33'-3"						33'-3"	33'-3"	7,122		
28	14V1551	Drilled Shaft		20	X				35'-3"						35'-3"	35'-3"	7,551		
224	14V1552	Drilled Shaft		20	X				55'-0"						55'-0"	55'-0"	94,248		
56	11V1553	Column		17	X				49'-9"						49'-9"	49'-9"	14,802		
56	11V1554	Column		20	X				25'-11"						25'-11"	25'-11"	7,711		
24	W5W1550	Beam		22	X				18"	9 1/8"					26'-1"	26'-1"	105		

**BILL OF REINFORCING STEEL**

Detailed JUL 2009  
 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

BILL OF REINFORCING STEEL

Table with columns: NO. REC'D., MARK NO., LOCATION, EPOXY (E), SHAPE NO., STIRRUP (S), SUBSTR. (X), VARIES (V), NO. EACH, DIMENSIONS (B, C, D, E, F, H, K), NOMINAL LENGTH, ACTUAL LENGTH, WEIGHT. Includes sections for PIER 16 WB and PIER 16 EB.

BILL OF REINFORCING STEEL

Table with columns: NO. REC'D., MARK NO., LOCATION, EPOXY (E), SHAPE NO., STIRRUP (S), SUBSTR. (X), VARIES (V), NO. EACH, DIMENSIONS (B, C, D, E, F, H, K), NOMINAL LENGTH, ACTUAL LENGTH, WEIGHT. Includes sections for PIER 17 WB and PIER 17 EB.

\* Two additional #4-U1704, #8-H1701, and #11-H1700 are included in the bar bill for testing.

BILL OF REINFORCING STEEL



**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K				
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				
<b>PIER 18 WB</b>																			
11	11H1800	Beam		20		X			39'-8"						39'-8"	39'-8"	2,318		
16	8H1801	Beam		20		X			39'-8"						39'-8"	39'-8"	1,695		
16	11H1802	Beam		18		X			42'-10"						42'-10"	42'-10"	3,641		
8	6H1803	Beam		20		X			19'-8"						19'-8"	19'-8"	236		
20	6H1804	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1800	Drilled Shaft		35		X			5'-6"	6"	144'-4"				4988'-8"	4988'-8"	10,406		
2	5P1801	Drilled Shaft & Colum		35		X			5'-6"	3"	42'-1"				2922'-0"	2922'-0"	6,095		
36	5P1802	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
46	6U1800	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	1,745		
12	6U1801	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
44	6U1802	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,724		
12	6U1803	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1804	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
22	18V1800	Drilled Shaft		20		X			43'-9"						43'-9"	43'-9"	13,090		
22	18V1801	Drilled Shaft		20		X			45'-9"						45'-9"	45'-9"	13,688		
176	18V1802	Drilled Shaft		20		X			55'-0"						55'-0"	55'-0"	131,648		
44	14V1803	Column		17		X			38'-3"						40'-6"	40'-6"	13,632		
44	14V1804	Column		17		X			37'-6"						39'-9"	39'-9"	13,380		
24	W5W1800	Beam		22		X			18"	9 1/8"					26'-1"	26'-1"	105		
<b>PIER 18 EB</b>																			
11	11H1850	Beam		20		X			39'-8"						39'-8"	39'-8"	2,318		
16	8H1851	Beam		20		X			39'-8"						39'-8"	39'-8"	1,695		
16	11H1852	Beam		18		X			42'-10"						42'-10"	42'-10"	3,641		
8	6H1853	Beam		20		X			19'-8"						19'-8"	19'-8"	236		
20	6H1854	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1850	Drilled Shaft		35		X			5'-6"	6"	142'-4"				4920'-2"	4920'-2"	10,263		
2	5P1851	Drilled Shaft & Colum		35		X			5'-6"	3"	44'-3"				3070'-4"	3070'-4"	6,405		
36	5P1852	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
46	6U1850	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	1,745		
12	6U1851	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
44	6U1852	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,724		
12	6U1853	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1854	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
22	18V1850	Drilled Shaft		20		X			41'-9"						41'-9"	41'-9"	12,492		
22	18V1851	Drilled Shaft		20		X			43'-9"						43'-9"	43'-9"	13,090		
176	18V1852	Drilled Shaft		20		X			55'-0"						55'-0"	55'-0"	131,648		
44	14V1853	Column		17		X			40'-5"						42'-8"	42'-8"	14,362		
44	14V1854	Column		17		X			39'-8"						41'-11"	41'-11"	14,109		
24	W5W1850	Beam		22		X			18"	9 1/8"					26'-1"	26'-1"	105		

**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K				
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				
<b>PIER 19 WB</b>																			
11	11H1900	Beam		20		X			45'-1"						45'-1"	45'-1"	2,635		
16	8H1901	Beam		20		X			45'-1"						45'-1"	45'-1"	1,926		
18	11H1902	Beam		18		X			45'-1"						48'-3"	48'-3"	4,614		
8	6H1903	Beam		20		X			19'-8"						19'-8"	19'-8"	236		
20	6H1904	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1900	Drilled Shaft		35		X			5'-6"	6"	144'-10"				5005'-10"	5005'-10"	10,442		
2	5P1901	Drilled Shaft & Colum		35		X			5'-6"	3"	39'-6"				2745'-2"	2745'-2"	5,726		
36	5P1902	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
12	6P1903	Pedestal		16		X			4'-6"	2'-8"					16'-10"	16'-10"	303		
70	6U1900	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	2,655		
12	6U1901	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
50	6U1902	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,959		
12	6U1903	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1904	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
16	6U1905	Pedestal		5	S	X			5'-11"	4'-8"	4'-8"				15'-3"	15'-0"	360		
14	9U1906	Pedestal *		57	S	X			5'-0"	9'-4"	9'-4"				26'-2"	25'-8"	1,222		
5	9U1907	Pedestal		57	S	X			5'-9"	8'-1"	8'-1"				24'-5"	23'-11"	407		
28	14V1900	Drilled Shaft		20		X			44'-3"						44'-3"	44'-3"	9,478		
28	14V1901	Drilled Shaft		20		X			46'-3"						46'-3"	46'-3"	9,907		
224	14V1902	Drilled Shaft		20		X			55'-0"						55'-0"	55'-0"	94,248		
56	11V1903	Column		17		X			36'-11"						38'-6"	38'-6"	11,455		
56	11V1904	Column		20		X			20'-4"						20'-4"	20'-4"	6,050		
16	6V1906	Pedestal		20		X			7'-3"						7'-3"	7'-3"	174		
24	W5W1900	Beam		22		X			18"	9 1/8"					26'-1"	26'-1"	105		
<b>PIER 19 EB</b>																			
11	11H1950	Beam		20		X			45'-1"						45'-1"	45'-1"	2,635		
16	8H1951	Beam		20		X			45'-1"						45'-1"	45'-1"	1,926		
18	11H1952	Beam		18		X			45'-1"						48'-3"	48'-3"	4,614		
8	6H1953	Beam		20		X			19'-8"						19'-8"	19'-8"	236		
20	6H1954	Beam		5	S	X			6'-0"	22"	22"				9'-8"	9'-5"	283		
2	5P1950	Drilled Shaft		35		X			5'-6"	6"	147'-10"				5108'-7"	5108'-7"	10,657		
2	5P1951	Drilled Shaft & Colum		35		X			5'-6"	3"	36'-8"				2551'-2"	2551'-2"	5,322		
36	5P1952	Beam		34	S	X			5'-6"						18'-1"	18'-1"	679		
12	6P1953	Pedestal		16		X			4'-6"	2'-8"					16'-10"	16'-10"	303		
70	6U1950	Beam		53	S	X			4'-6"	7'-8"					25'-8"	25'-3"	2,655		
12	6U1951	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	19'-7"	353		
50	6U1952	Beam		53	S	X			4'-6"	8'-1"					26'-6"	26'-1"	1,959		
12	6U1953	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	20'-5"	368		
20	4U1954	Beam		5	S	X			6'-2"	18"	18"				9'-2"	9'-0"	120		
16	6U1955	Pedestal		5	S	X			5'-11"	4'-8"	4'-8"				15'-3"	15'-0"	360		
12	9U1956	Pedestal		57	S	X			5'-0"	9'-4"	9'-4"				26'-2"	25'-8"	1,047		
5	9U1957	Pedestal		57	S	X			5'-9"	8'-1"	8'-1"				24'-5"	23'-11"	407		
28	14V1950	Drilled Shaft		20		X			47'-3"						47'-3"	47'-3"	10,121		
28	14V1951	Drilled Shaft		20		X			49'-3"						49'-3"	49'-3"	10,549		
224	14V1952	Drilled Shaft		20		X			55'-0"						55'-0"	55'-0"	94,248		
56	11V1953	Column		17		X			34'-1"						35'-8"	35'-8"	10,612		
56	11V1954	Column		20		X</													

**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K			
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
<b>PIER 20 WB</b>																		
11	11H2000	Beam		20	X				39'-8"						39'-8"	2,318		
16	8H2001	Beam		20	X				39'-8"						39'-8"	1,695		
16	11H2002	Beam		18	X				39'-8"						42'-10"	3,641		
8	6H2003	Beam		20	X				19'-8"						19'-8"	236		
20	6H2004	Beam		5	S	X			6'-0"	22"	22"				9'-5"	283		
40	7H2006	Crashwall		20	X				14'-3"						14'-3"	1,165		
30	7H2007	Crashwall		20	X				18'-4"						18'-4"	1,124		
34	7H2009	Crashwall		20	X				26'-0"						26'-0"	1,807		
40	7L2000	Crashwall		19	X				5'-2"	3'-7"					8'-9"	702		
2	5P2000	Drilled Shaft		35	X				5'-6"	6"	139'-10"				4834'-7"	10,085		
2	5P2001	Drilled Shaft & Column		35	X				5'-6"	3"	40'-2"				2790'-9"	5,822		
36	5P2002	Beam		34	S	X			5'-6"						18'-1"	679		
46	6U2000	Beam		53	S	X			4'-6"	7'-8"					25'-8"	1,745		
12	6U2001	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	353		
44	6U2002	Beam		53	S	X			4'-6"	8'-0"					26'-4"	1,713		
12	6U2003	Beam		5	S	X			4'-6"	8'-0"	8'-0"				20'-6"	365		
20	4U2004	Beam		5	S	X			6'-2"	18"	18"				9'-2"	120		
34	7U2009	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	1,008		
20	7U2010	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	593		
34	7U2011	Crashwall		7	X				9'-5"	7'-4"					22'-11"	1,593		
28	14V2000	Drilled Shaft		20	X				39'-3"						39'-3"	8,407		
28	14V2001	Drilled Shaft		20	X				41'-3"						41'-3"	8,836		
224	14V2002	Drilled Shaft		20	X				55'-0"						55'-0"	94,248		
56	11V2003	Column		17	X				37'-6"						39'-1"	11,628		
56	11V2004	Column		20	X				20'-8"						20'-8"	6,149		
88	7V2008	Crashwall		20	X				16'-2"						16'-2"	2,908		
24	W5W2000	Beam		22	X				18"	9 1/8"					26'-1"	105		
44	5H2010	Crashwall		20	X				3'-8"						3'-8"	168		
20	7H2011	Crashwall		20	X				9'-8"						9'-8"	395		

**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K			
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
<b>PIER 20 EB</b>																		
40	7H2006	Crashwall		20	X				14'-3"						14'-3"	1,165		
30	7H2007	Crashwall		20	X				18'-4"						18'-4"	1,124		
34	7H2009	Crashwall		20	X				26'-0"						26'-0"	1,807		
11	11H2050	Beam		20	X				39'-8"						39'-8"	2,318		
16	8H2051	Beam		20	X				39'-8"						39'-8"	1,695		
16	11H2052	Beam		18	X				42'-10"						42'-10"	3,641		
8	6H2053	Beam		20	X				19'-8"						19'-8"	236		
20	6H2054	Beam		5	S	X			6'-0"	22"	22"				9'-5"	283		
40	7L2000	Crashwall		19	X				5'-2"	3'-7"					8'-9"	702		
2	5P2050	Drilled Shaft		35	X				5'-6"	6"	139'-10"				4834'-7"	10,085		
2	5P2051	Drilled Shaft & Column		35	X				5'-6"	3"	40'-1"				2785'-1"	5,810		
36	5P2052	Beam		34	S	X			5'-6"						18'-1"	679		
34	7U2009	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	1,008		
20	7U2010	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	593		
34	7U2011	Crashwall		7	X				9'-5"	7'-4"					22'-11"	1,593		
46	6U2050	Beam		53	S	X			4'-6"	7'-8"					25'-8"	1,745		
12	6U2051	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	353		
44	6U2052	Beam		53	S	X			4'-6"	8'-1"					26'-6"	1,724		
12	6U2053	Beam		5	S	X			4'-6"	8'-1"	8'-1"				20'-8"	368		
20	4U2054	Beam		5	S	X			6'-2"	18"	18"				9'-2"	120		
88	7V2008	Crashwall		20	X				16'-2"						16'-2"	2,908		
28	14V2050	Drilled Shaft		20	X				39'-3"						39'-3"	8,407		
28	14V2051	Drilled Shaft		20	X				41'-3"						41'-3"	8,836		
224	14V2052	Drilled Shaft		20	X				55'-0"						55'-0"	94,248		
56	11V2053	Column		17	X				37'-6"						39'-1"	11,628		
56	11V2054	Column		20	X				20'-7"						20'-7"	6,124		
24	W5W2050	Beam		22	X				18"	9 1/8"					26'-1"	105		
44	5H2010	Crashwall		20	X				3'-8"						3'-8"	168		
20	7H2011	Crashwall		20	X				9'-8"						9'-8"	395		



**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K			
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
<b>PIER 21 WB</b>																		
11	11H2100	Beam		20	X				39'-8"						39'-8"	2,318		
16	8H2101	Beam		20	X				39'-8"						39'-8"	1,695		
16	11H2102	Beam		18	X				39'-8"						42'-10"	3,641		
8	6H2103	Beam		20	X				7'-11"						7'-11"	95		
16	6H2104	Beam		20	X				14'-0"						14'-0"	336		
20	6H2105	Beam		5	S	X			6'-0"	22"	22"				9'-8"	283		
40	7H2106	Crashwall		20	X				14'-3"						14'-3"	1,165		
30	7H2107	Crashwall		20	X				18'-4"						18'-4"	1,124		
32	7H2109	Crashwall		20	X				26'-0"						26'-0"	1,701		
40	7L2100	Crashwall		19	X				5'-2"	3'-7"					8'-9"	702		
2	5P2100	Drilled Shaft		35	X				5'-6"	6"	129'-4"				4475'-0"	9,335		
2	5P2101	Drilled Shaft & Column		35	X				5'-6"	3"	46'-1"				3195'-11"	6,667		
36	5P2102	Beam		34	S	X			5'-6"						18'-1"	679		
10	6U2100	Beam		53	S	X			4'-6"	8'-8"					27'-8"	409		
8	6U2101	Beam		5	S	X			4'-6"	8'-8"	8'-8"				21'-10"	259		
4	6U2102	Beam		5	S	X			4'-6"	8'-4"	8'-4"				21'-2"	126		
28	6U2103	Beam		53	S	X			4'-6"	8'-4"					27'-0"	1,118		
30	6U2104	Beam		53	S	X			4'-6"	8'-0"					26'-4"	1,168		
4	6U2105	Beam		5	S	X			4'-6"	8'-0"	8'-0"				20'-6"	122		
8	6U2106	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	235		
10	6U2107	Beam		53	S	X			4'-6"	7'-8"					25'-8"	379		
20	4U2108	Beam		5	S	X			6'-2"	2'-0"	2'-0"				10'-2"	134		
32	7U2109	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	948		
20	7U2110	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	593		
32	7U2111	Crashwall		7	X				9'-5"	7'-4"					22'-11"	1,499		
28	14V2100	Drilled Shaft		20	X				28'-9"						28'-9"	6,158		
28	14V2101	Drilled Shaft		20	X				30'-9"						30'-9"	6,587		
224	14V2102	Drilled Shaft		20	X				55'-0"						55'-0"	94,248		
56	11V2103	Column		17	X				43'-6"						45'-1"	13,414		
56	11V2104	Column		20	X				23'-8"						23'-8"	7,041		
88	7V2108	Crashwall		20	X				14'-8"						14'-8"	2,638		
24	W5W2100	Beam		22	X				18"	9 1/8"					26'-1"	105		
44	5H2110	Crashwall		20	X				3'-8"						3'-8"	168		
20	7H2111	Crashwall		20	X				9'-8"						9'-8"	395		

**BILL OF REINFORCING STEEL**

NO. REC'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K			
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
<b>PIER 21 EB</b>																		
40	7H2106	Crashwall		20	X				14'-3"						14'-3"	1,165		
30	7H2107	Crashwall		20	X				18'-4"						18'-4"	1,124		
32	7H2109	Crashwall		20	X				26'-0"						26'-0"	1,701		
11	11H2150	Beam		20	X				39'-8"						39'-8"	2,318		
16	8H2151	Beam		20	X				39'-8"						39'-8"	1,695		
16	11H2152	Beam		18	X				39'-8"						42'-10"	3,641		
8	6H2153	Beam		20	X				7'-11"						7'-11"	95		
16	6H2154	Beam		20	X				14'-0"						14'-0"	336		
20	6H2155	Beam		5	S	X			6'-0"	22"	22"				9'-8"	283		
40	7L2100	Crashwall		19	X				5'-2"	3'-7"					8'-9"	702		
2	5P2150	Drilled Shaft		35	X				5'-6"	6"	129'-4"				4475'-0"	9,335		
2	5P2151	Drilled Shaft & Column		35	X				5'-6"	3"	45'-3"				3138'-10"	6,548		
36	5P2152	Beam		34	S	X			5'-6"						18'-1"	679		
32	7U2109	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	948		
20	7U2110	Crashwall		5	S	X			7'-4"	3'-9"	3'-9"				14'-10"	593		
32	7U2111	Crashwall		7	X				9'-5"	7'-4"					22'-11"	1,499		
10	6U2150	Beam		53	S	X			4'-6"	8'-8"					27'-8"	409		
8	6U2151	Beam		5	S	X			4'-6"	8'-8"	8'-8"				21'-10"	259		
4	6U2152	Beam		5	S	X			4'-6"	8'-4"	8'-4"				21'-2"	126		
28	6U2153	Beam		53	S	X			4'-6"	8'-4"					27'-0"	1,118		
30	6U2154	Beam		53	S	X			4'-6"	8'-0"					26'-4"	1,168		
4	6U2155	Beam		5	S	X			4'-6"	8'-0"	8'-0"				20'-6"	122		
8	6U2156	Beam		5	S	X			4'-6"	7'-8"	7'-8"				19'-10"	235		
10	6U2157	Beam		53	S	X			4'-6"	7'-8"					25'-8"	379		
20	4U2158	Beam		5	S	X			6'-2"	2'-0"	2'-0"				10'-2"	134		
28	14V2150	Drilled Shaft		20	X				28'-9"						28'-9"	6,158		
28	14V2151	Drilled Shaft		20	X				30'-9"						30'-9"	6,587		
88	7V2108	Crashwall		20	X				14'-8"						14'-8"	2,638		
224	14V2152	Drilled Shaft		20	X				55'-0"						55'-0"	94,248		
56	11V2153	Column		17	X				42'-8"						44'-3"	13,166		
56	11V2154	Column		20	X				23'-3"						23'-3"	6,918		
24	W5W2150	Beam		22	X				18"	9 1/8"					26'-1"	105		
44	5H2110	Crashwall		20	X				3'-8"						3'-8"	168		
20	7H2111	Crashwall		20	X				9'-8"						9'-8"	395		

BILL OF REINFORCING STEEL

Table with columns: NO. REC'D., MARK NO., LOCATION, DIMENSIONS (B, C, D, E, F, H, K), NOMINAL LENGTH, ACTUAL LENGTH, WEIGHT. Includes sections for PIER 22 WB and PIER 22 EB.

BILL OF REINFORCING STEEL

Table with columns: NO. REC'D., MARK NO., LOCATION, DIMENSIONS (B, C, D, E, F, H, K), NOMINAL LENGTH, ACTUAL LENGTH, WEIGHT. Includes sections for PIER 23 WB and PIER 23 EB.

\* Two additional #6-H2305 are included in the bar bill for testing.

CONTRACT NO. 76D61

F.A. ROUTE SECTION

999 82-1B-2

FED. AID PROJECT ILLINOIS

COUNTY ST. CLAIR

USER NAME = jcolliff

PLOT SCALE = #SCALE#

PLOT DATE = 4/14/2010

DESIGNED - HNTB

CHECKED - CMT

DRAWN - CMT / HNTB

REVISED -

REVISED -

REVISED -

REVISED -

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270

CMT CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631

**BILL OF REINFORCING STEEL**

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
									B	C	D	E	F	H	K	FT. IN.				FT. IN.	LBS.
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				FT. IN.	FT. IN.
SLAB																					
4661	6S100	Slab	E	20					42'-5"								42'-5"	42'-5"	296.954		
648	6S101	Slab	E	20					57'-5"								57'-5"	57'-5"	55.883		
528	6S102	Slab	E	20					50'-0"								50'-0"	50'-0"	39.653		
132	6S103	Slab	E	20					35'-8"								35'-8"	35'-8"	7.071		
264	6S104	Slab	E	20					60'-0"								60'-0"	60'-0"	23.792		
66	6S105	Slab	E	20					45'-2"								45'-2"	45'-2"	4.477		
144	6S106	Slab	E	20					58'-8"								58'-8"	58'-8"	12.689		
3806	5S107	Slab	E	20					4'-1"								4'-1"	4'-1"	16.209		
612	6S108	Slab	E	20					56'-1"								56'-1"	56'-1"	51.553		
132	6S109	Slab	E	20					25'-7"								25'-7"	25'-7"	5.072		
66	6S110	Slab	E	20					34'-8"								34'-8"	34'-8"	3.437		
136	6S111	Slab	E	20					57'-4"								57'-4"	57'-4"	11.712		
70	6S112	Slab	E	20					5'-11"								5'-11"	5'-11"	623		
70	6S113	Slab	E	23					12"	2'-5"	4'-1"	2'-10 <sup>5</sup> / <sub>8</sub> "	2'-10 <sup>5</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub> "		7'-6"	7'-6"	789		
70	6S114	Slab	E	17					4'-2"								4'-10"	4'-10"	509		
172	4S115	Slab	E	53	S				15"	19"							6'-5"	6'-2"	709		
70	6S116	Slab	E	20					6'-3"								6'-3"	6'-3"	657		
70	6S117	Slab	E	23					12"	2'-5"	4'-2 <sup>1</sup> / <sub>8</sub> "	3'-0"	3'-0"	8 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub> "		7'-8"	7'-8"	806		
70	6S118	Slab	E	17					4'-4"								5'-0"	5'-0"	526		
320	5S119	Slab	E	20					2'-0"								2'-0"	2'-0"	668		
7748	6S200	Slab	E	20					42'-5"								42'-5"	42'-5"	493.624		
1044	6S201	Slab	E	20					56'-4"								56'-4"	56'-4"	88.336		
264	6S202	Slab	E	20					50'-0"								50'-0"	50'-0"	19.826		
66	6S203	Slab	E	20					35'-6"								35'-6"	35'-6"	3.519		
264	6S204	Slab	E	20					60'-0"								60'-0"	60'-0"	23.792		
66	6S205	Slab	E	20					45'-3"								45'-3"	45'-3"	4.486		
792	6S206	Slab	E	20					55'-0"								55'-0"	55'-0"	65.427		
66	6S207	Slab	E	20					34'-10"								34'-10"	34'-10"	3.453		
66	6S208	Slab	E	20					38'-8"								38'-8"	38'-8"	3.833		
66	6S209	Slab	E	20					33'-2"								33'-2"	33'-2"	3.288		
232	6S210	Slab	E	20					57'-7"								57'-7"	57'-7"	20.066		
3116	5S211	Slab	E	20					4'-1"								4'-1"	4'-1"	13.271		
1080	6S212	Slab	E	20					56'-9"								56'-9"	56'-9"	92.058		
66	6S213	Slab	E	20					41'-2"								41'-2"	41'-2"	4.081		
66	6S214	Slab	E	20					54'-6"								54'-6"	54'-6"	5.403		
66	6S215	Slab	E	20					43'-9"								43'-9"	43'-9"	4.337		
66	6S216	Slab	E	20					38'-3"								38'-3"	38'-3"	3.792		
66	6S217	Slab	E	20					39'-8"								39'-8"	39'-8"	3.932		
240	6S218	Slab	E	20					58'-1"								58'-1"	58'-1"	20.938		
3252	5S219	Slab	E	20					4'-1"								4'-1"	4'-1"	13.850		
70	6S220	Slab	E	20					5'-11"								5'-11"	5'-11"	623		
70	6S221	Slab	E	23					12"	2'-5"	4'-1"	2'-10 <sup>5</sup> / <sub>8</sub> "	2'-10 <sup>5</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub> "		7'-6"	7'-6"	789		
70	6S222	Slab	E	17					4'-2"								4'-10"	4'-10"	509		
86	4S223	Slab	E	53	S				15"	19"							6'-5"	6'-2"	355		
70	6S224	Slab	E	20					7'-10"								7'-10"	7'-10"	824		
70	6S225	Slab	E	23					12"	2'-5"	5'-7"	3'-11 <sup>3</sup> / <sub>8</sub> "	3'-11 <sup>3</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub> "		9'-0"	9'-0"	946		
70	6S226	Slab	E	17					5'-8"								6'-4"	6'-4"	666		
400	5S227	Slab	E	20					2'-0"								2'-0"	2'-0"	834		
86	4S228	Slab	E	53	S				15"	2'-1"							7'-5"	7'-2"	412		

Note: This drawing is not to scale. Follow dimensions.

Detailed JUL 2009  
 Checked JUL 2009

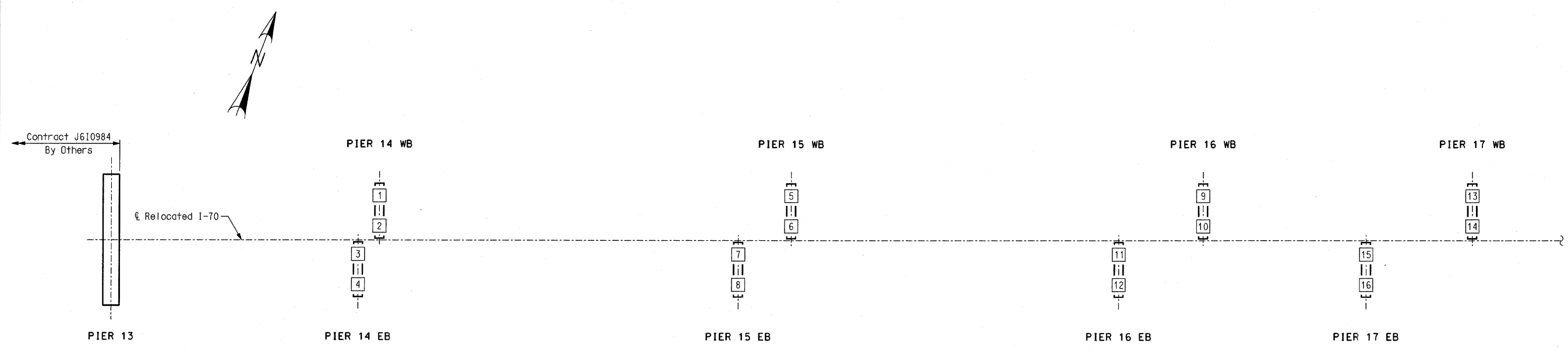
Sheet No. 148 of 152

**BILL OF REINFORCING STEEL**

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
									B	C	D	E	F	H	K	FT. IN.				FT. IN.	LBS.
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				FT. IN.	FT. IN.
BARRIER CURB																					
3996	5R100	Barrier Curb (Type D)	E	19	S				3'-4"	5"							3'-9"	3'-8"	15.282		
3996	5R101	Barrier Curb (Type D)	E	12	S				3'-5"	5"							3'-10"	3'-10"	15.977		
3996	5R102	Barrier Curb (Type D)	E	19	S				22 <sup>1</sup> / <sub>2</sub> "	9"							2'-8"	2'-6"	10.420		
3996	5R103	Barrier Curb (Type D)	E	27	S				8"	14 <sup>3</sup> / <sub>4</sub> "	12"	9"					3'-8"	3'-5"	14.240		
48	5R104	Barrier Curb (Type D)	E	20					19'-2"								19'-2"	19'-2"	960		
432	5R105	Barrier Curb (Type D)	E	20					19'-2"								19'-2"	19'-2"	8.636		
1104	5R106	Barrier Curb (Type D)	E	20					19'-8"								19'-8"	19'-8"	22.646		
48	5R107	Barrier Curb (Type D)	E	20					18'-9"								18'-9"	18'-9"	939		
672	5R108	Barrier Curb (Type D)	E	20					19'-5"								19'-5"	19'-5"	13.609		
6714	5R200	Barrier Curb (Type D)	E	19	S				3'-4"	5"							3'-9"	3'-8"	25.677		
6714	5R201	Barrier Curb (Type D)	E	12	S				3'-5"	5"							3'-10"	3'-10"	26.844		
6714	5R202	Barrier Curb (Type D)	E	19	S				22 <sup>1</sup> / <sub>2</sub> "	9"							2'-8"	2'-6"	17.507		
6714	5R203	Barrier Curb (Type D)	E	27	S				8"	14 <sup>3</sup> / <sub>4</sub> "	12"	9"					3'-8"	3'-5"	23.926		
36	5R204	Barrier Curb (Type D)	E	20					17'-9"								17'-9"	17'-9"	666		
216	5R205	Barrier Curb (Type D)	E	20					18'-8"								18'-8"	18'-8"	4.205		
624	5R206	Barrier Curb (Type D)	E	20					18'-6"								18'-6"	18'-6"	12.040		
744	5R207	Barrier Curb (Type D)	E	20					19'-6"								19'-6"	19'-6"	15.132		
360	5R208	Barrier Curb (Type D)	E	20					18'-9"								18'-9"	18'-9"	7.040		
168	5R209	Barrier Curb (Type D)	E	20					19'-4"								19'-4"	19'-4"	3.388		
120	5R210	Barrier Curb (Type D)	E	20					18'-11"								18'-11"	18'-11"	2.368		
12	5R211	Barrier Curb (Type D)	E	20					18'-2"								18'-2"	18'-2"	227		
24	5R212	Barrier Curb (Type D)	E	20</																	



CONTRACT NO. 76D61	
F.A. ROUTE 999	SECTION 82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY ST. CLAIR	
USER NAME = Jjelliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	



PART PLAN SHOWING DRILLED SHAFT NUMBERING FOR RECORDING "AS BUILT DRILLED SHAFT" DATA

"AS BUILT DRILLED SHAFT" DATA			
SHAFT NO.	BOTTOM OF DRILLED SHAFT (ELEV.)	BOTTOM OF ROCK SOCKET (ELEV.)	REMARKS
Pier 14 WB			
1			
2			
Pier 14 EB			
3			
4			
Pier 15 WB			
5			
6			
Pier 15 EB			
7			
8			

"AS BUILT DRILLED SHAFT" DATA			
SHAFT NO.	BOTTOM OF DRILLED SHAFT (ELEV.)	BOTTOM OF ROCK SOCKET (ELEV.)	REMARKS
Pier 16 WB			
9			
10			
Pier 16 EB			
11			
12			

"AS BUILT DRILLED SHAFT" DATA			
SHAFT NO.	BOTTOM OF DRILLED SHAFT (ELEV.)	BOTTOM OF ROCK SOCKET (ELEV.)	REMARKS
Pier 17 WB			
13			
14			
Pier 17 EB			
15			
16			

NOTE: THIS SHEET TO BE COMPLETED BY IDOT CONSTRUCTION PERSONNEL.

AS BUILT DRILLED SHAFT DATA - UNIT 1

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 150 of 152

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ILLINOIS APPROACH STRUCTURE  
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 MISSOURI HIGHWAYS  
 AND TRANSPORTATION COMMISSION

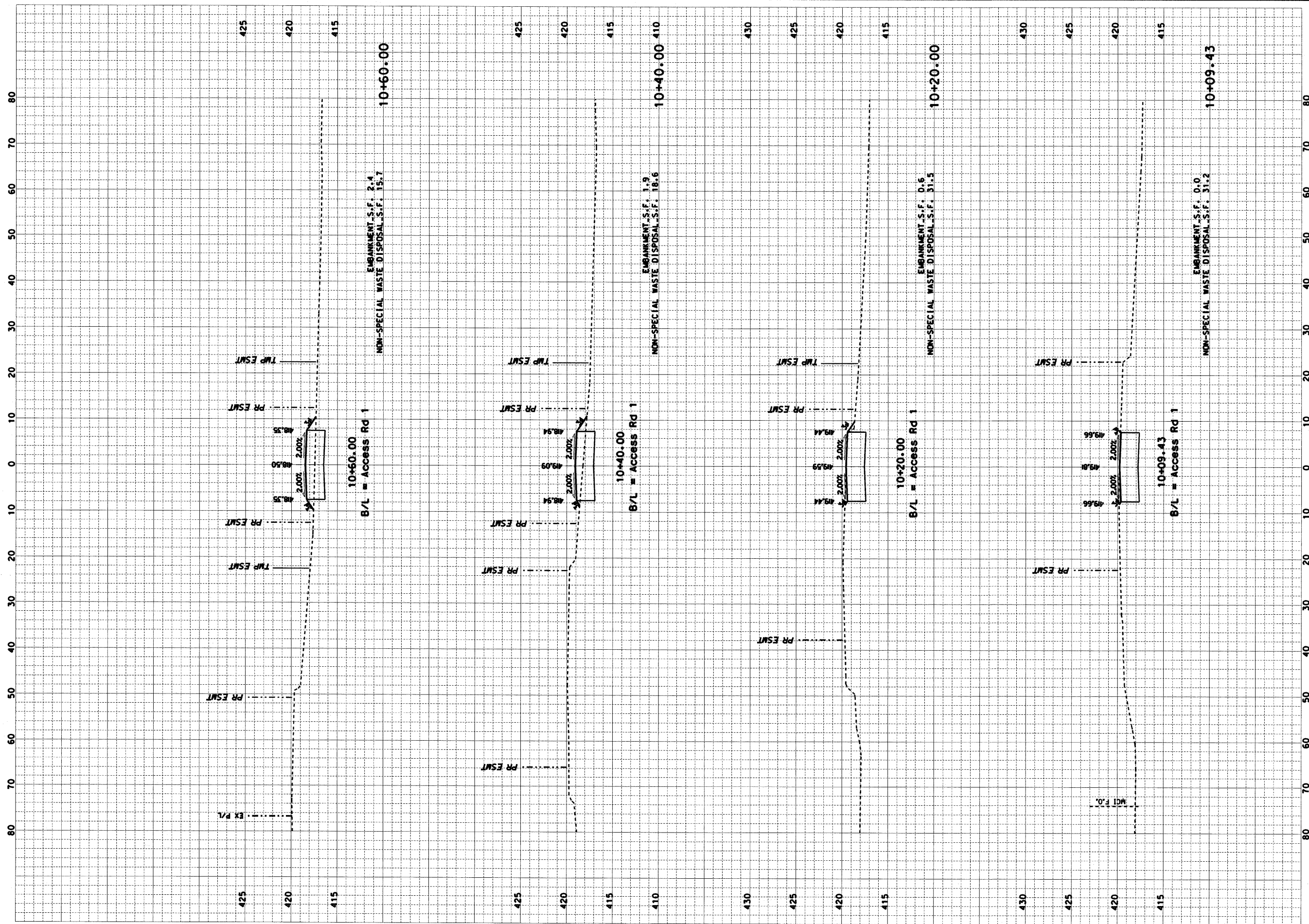
**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
 TELEPHONE (816) 472-1201  
 CERTIFICATE OF AUTHORITY  
 NO. 001270

**CMT**  
 CRAWFORD, MURPHY & TILLY, INC.  
 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631









CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Raker's	
PLOT SCALE = 10,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**CROSS SECTIONS**

ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

ACCESS ROAD 1

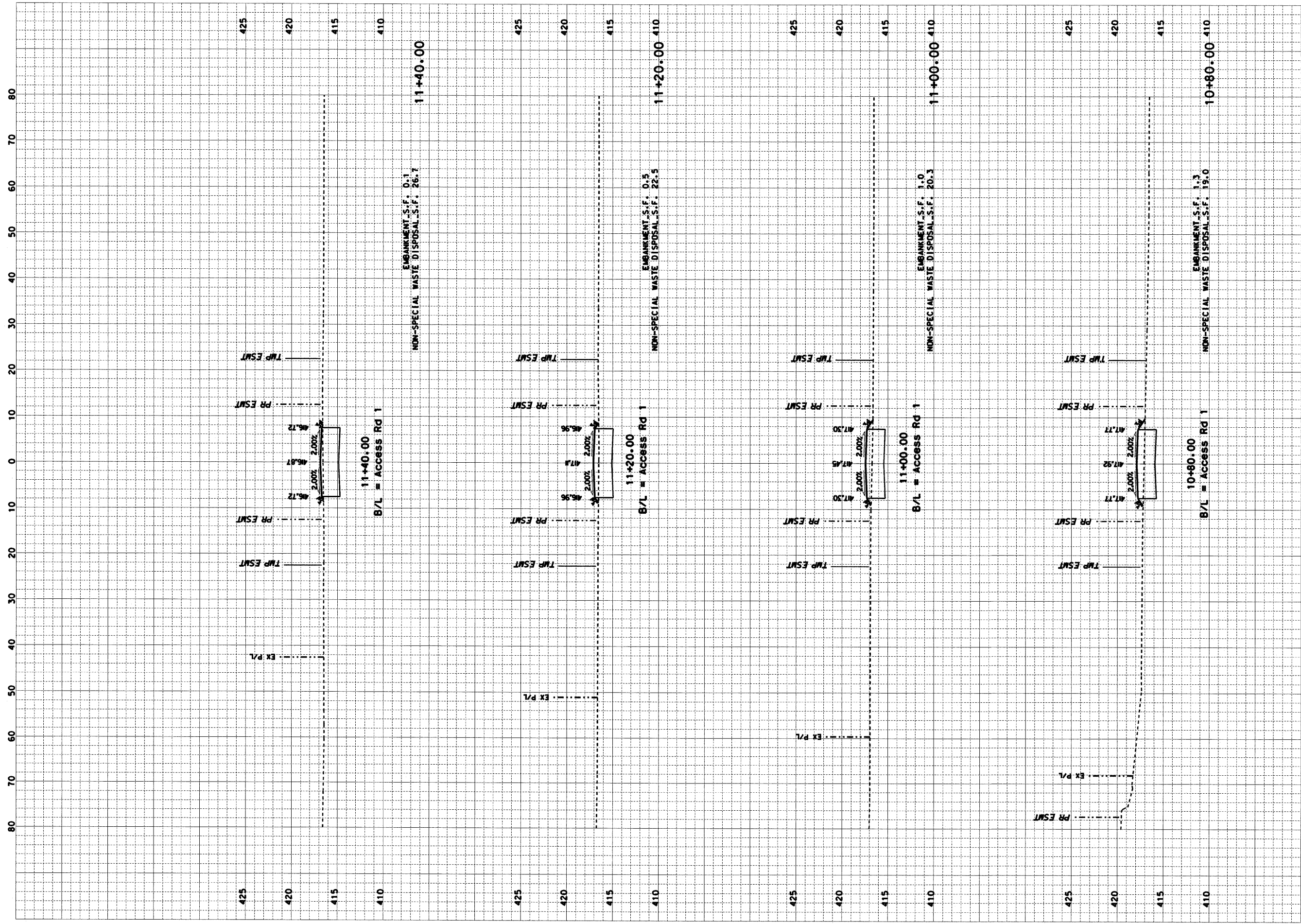
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631







CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	

CROSS SECTIONS	ILLINOIS APPROACH STRUCTURE
	FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	ACCESS ROAD 1

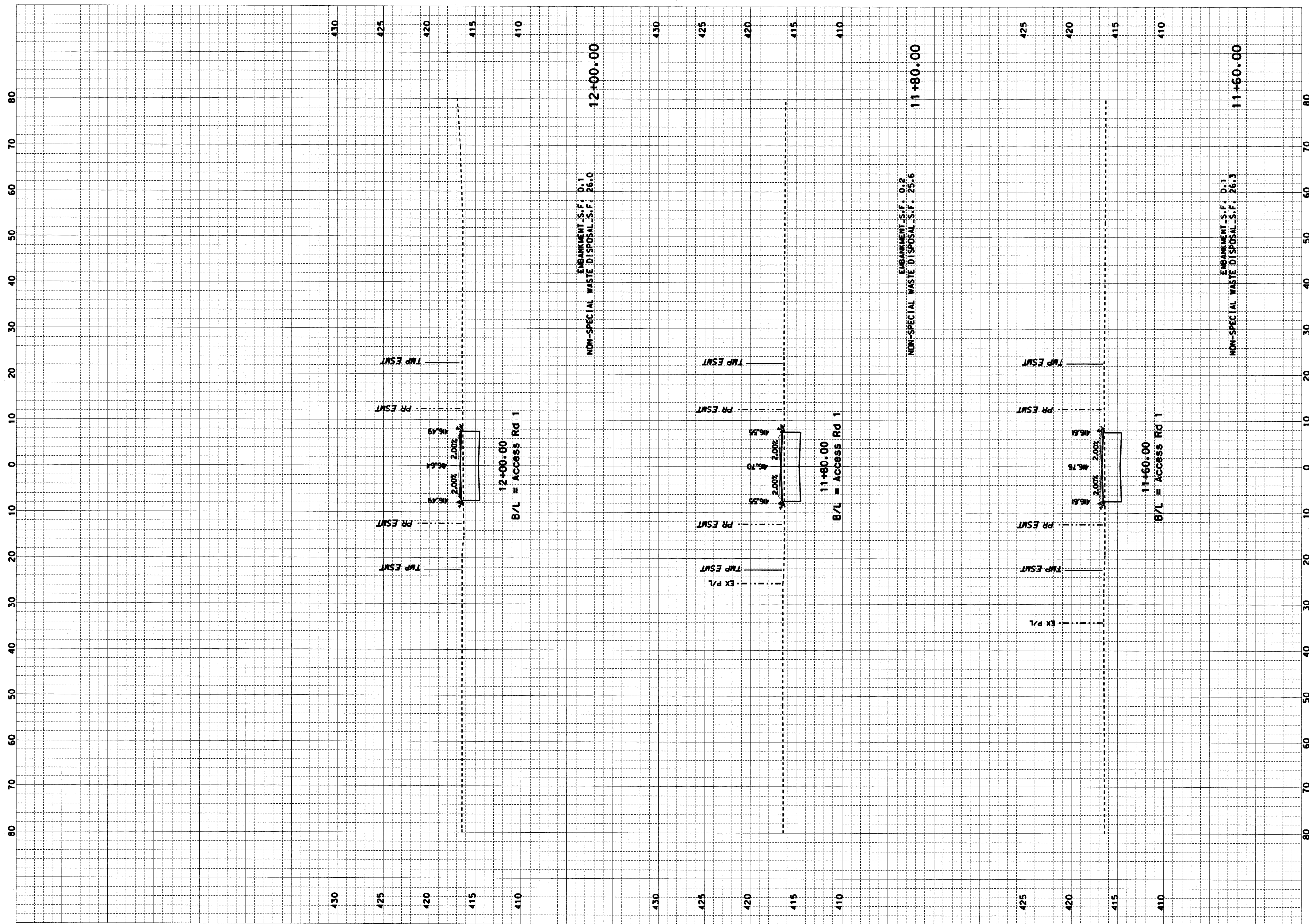
STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS	
AND TRANSPORTATION COMMISSION	



**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
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REVISED -	

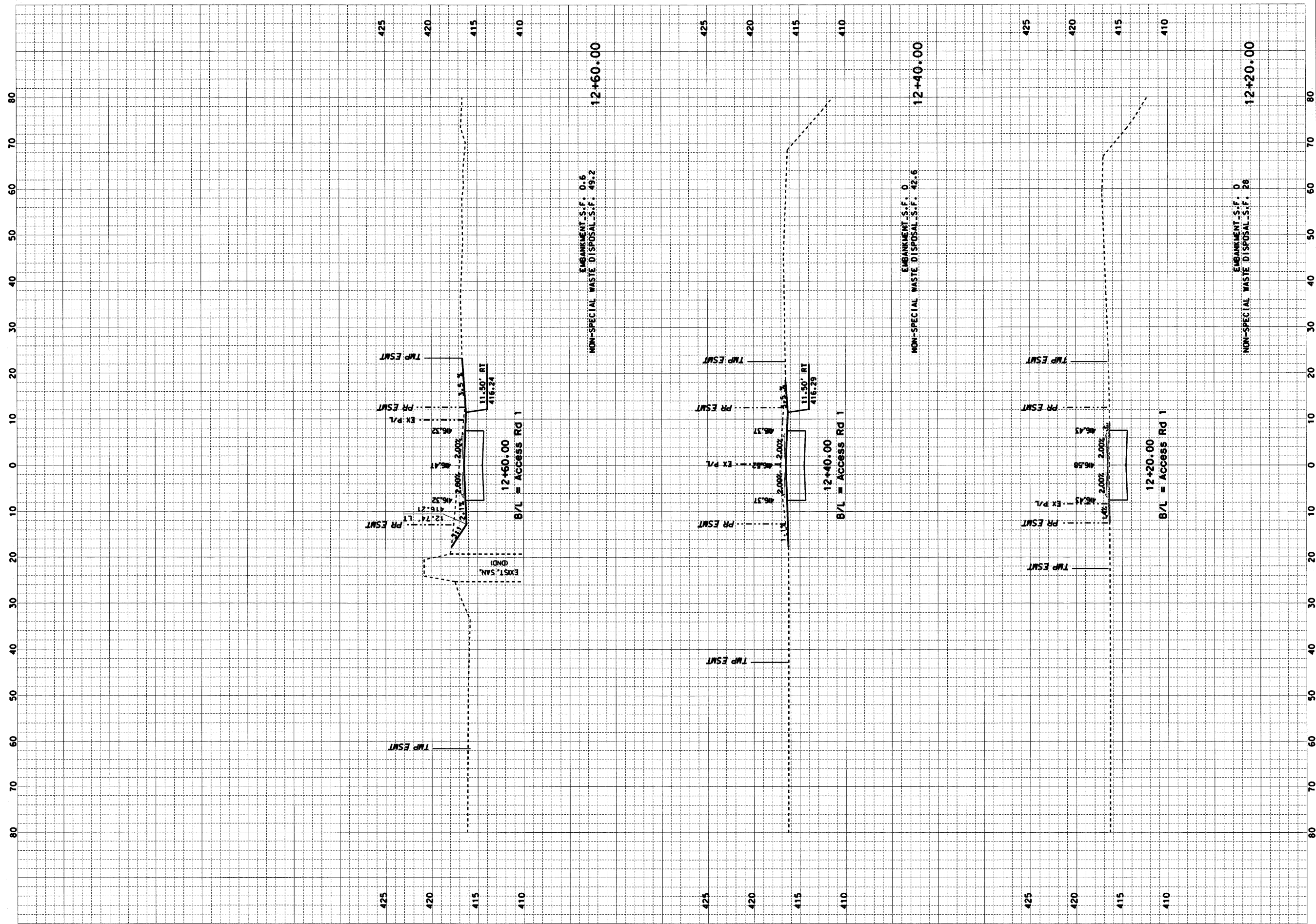
CROSS SECTIONS	
ILLINOIS APPROACH STRUCTURE	
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
ACCESS ROAD 1	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
MISSOURI HIGHWAYS	
AND TRANSPORTATION COMMISSION	

**CMT**  
 CRAWFORD, MURPHY & TILLY, INC.  
 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631

**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
 TELEPHONE (816) 472-1201  
 CERTIFICATE OF AUTHORITY  
 NO. 001270





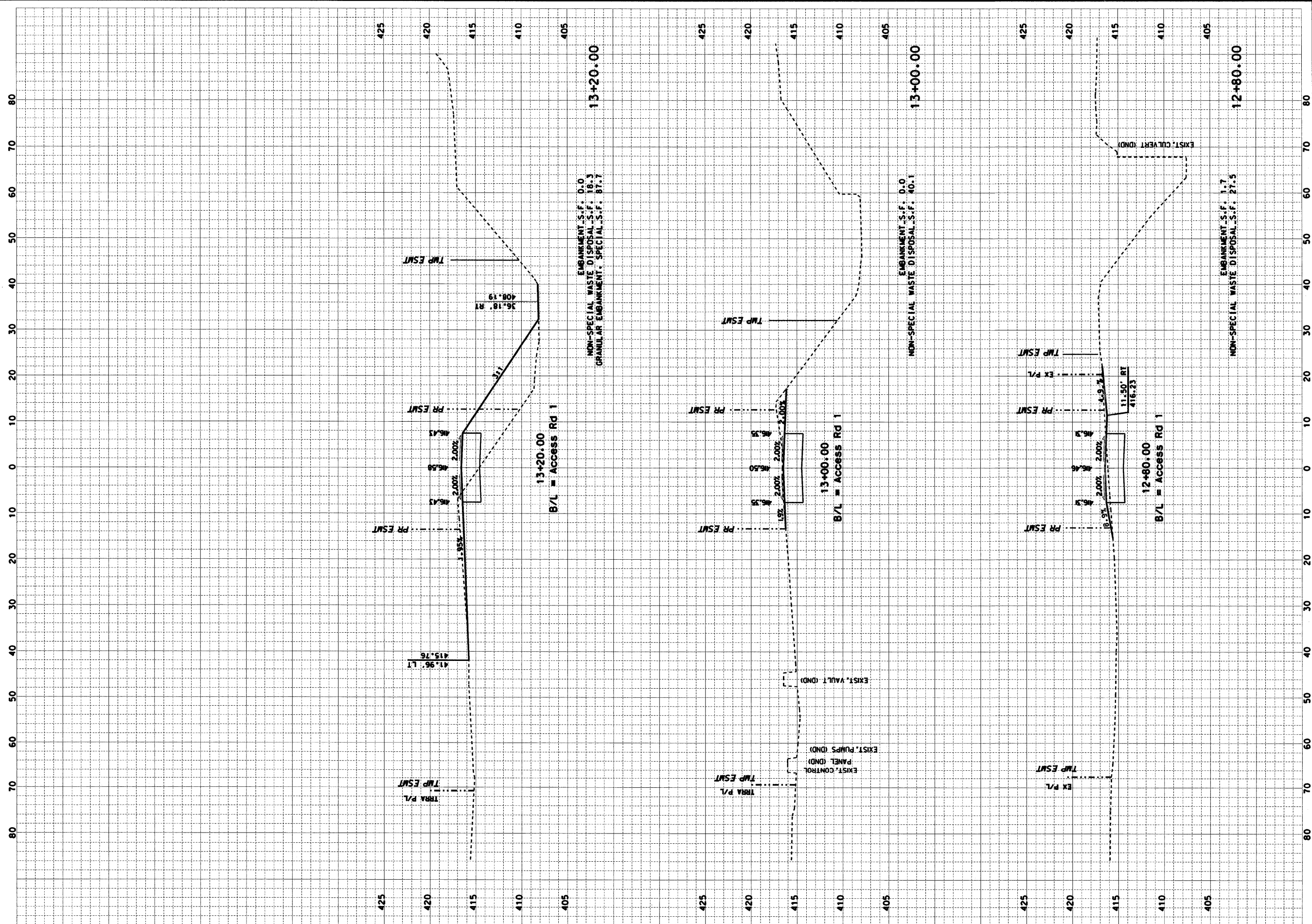
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

CROSS SECTIONS	
ILLINOIS APPROACH STRUCTURE	
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
ACCESS ROAD 1	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
MISSOURI HIGHWAYS	
AND TRANSPORTATION COMMISSION	

**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
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**CMT**  
 CRAWFORD, MURPHY & TILLY, INC.  
 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631




CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

CROSS SECTIONS	ILLINOIS APPROACH STRUCTURE
	FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	ACCESS ROAD 1

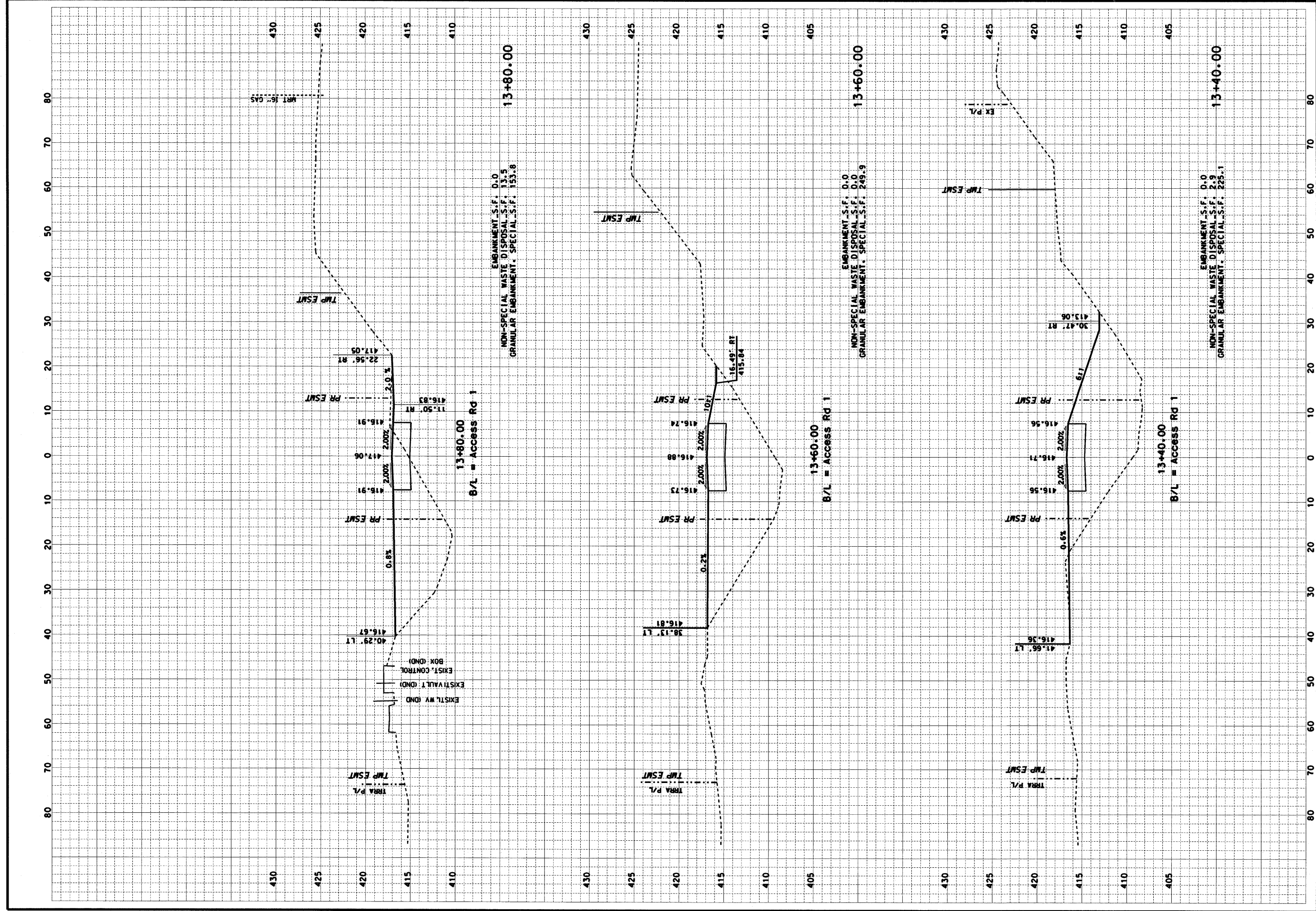
STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS	
AND TRANSPORTATION COMMISSION	



**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631

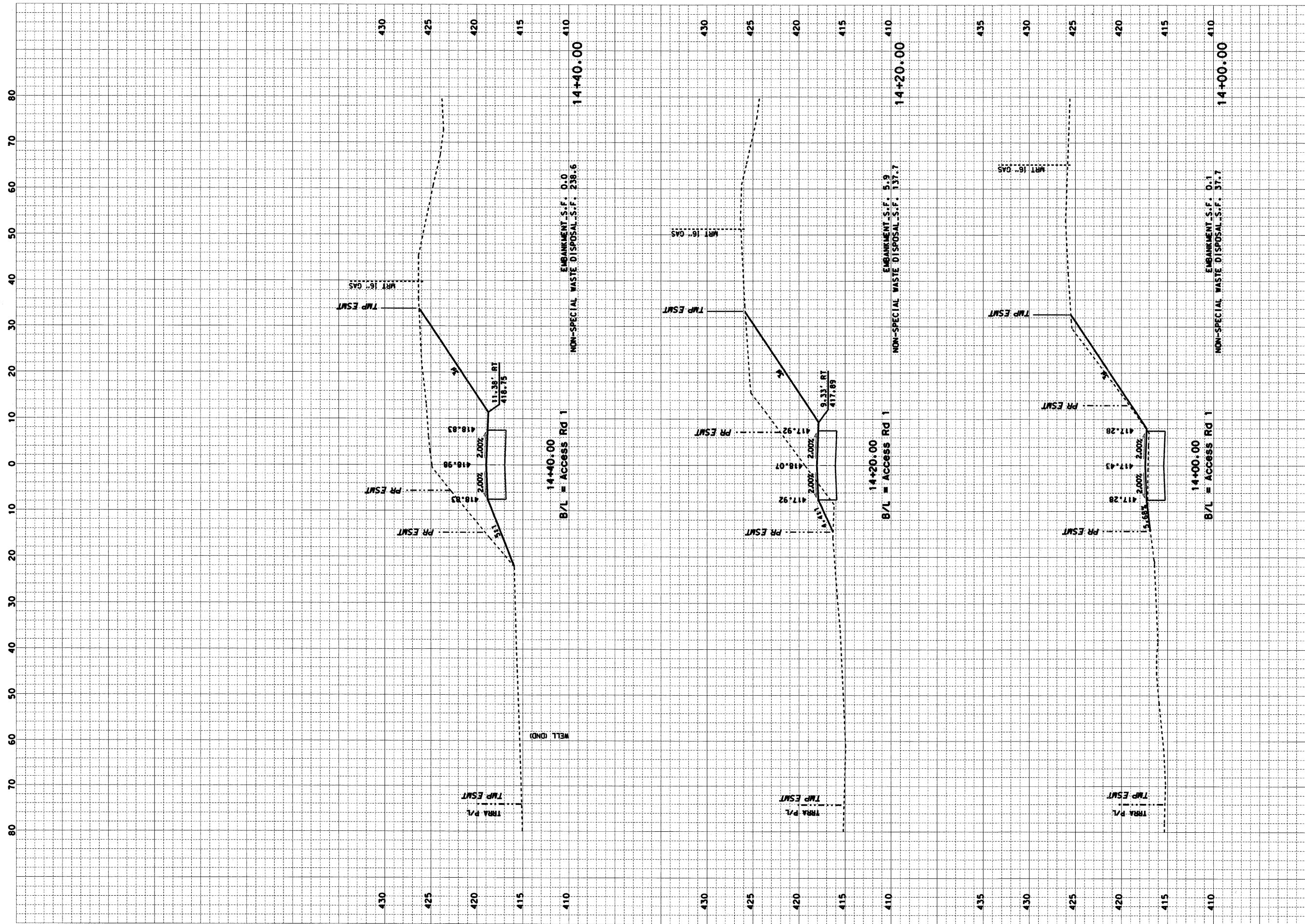


**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	
<b>CROSS SECTIONS</b>	
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
<b>ACCESS ROAD 1</b>	
<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	
<b>MISSOURI HIGHWAYS</b> <b>AND TRANSPORTATION COMMISSION</b>	
<b>HNTB</b> 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270	
<b>CMT</b> CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-6050 ENGINEERING CORPORATION - 000631	
SHEET	6 OF 100





CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
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DRAWN	- CMT / HNTB
REVISED	-
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ACCESS ROAD 1

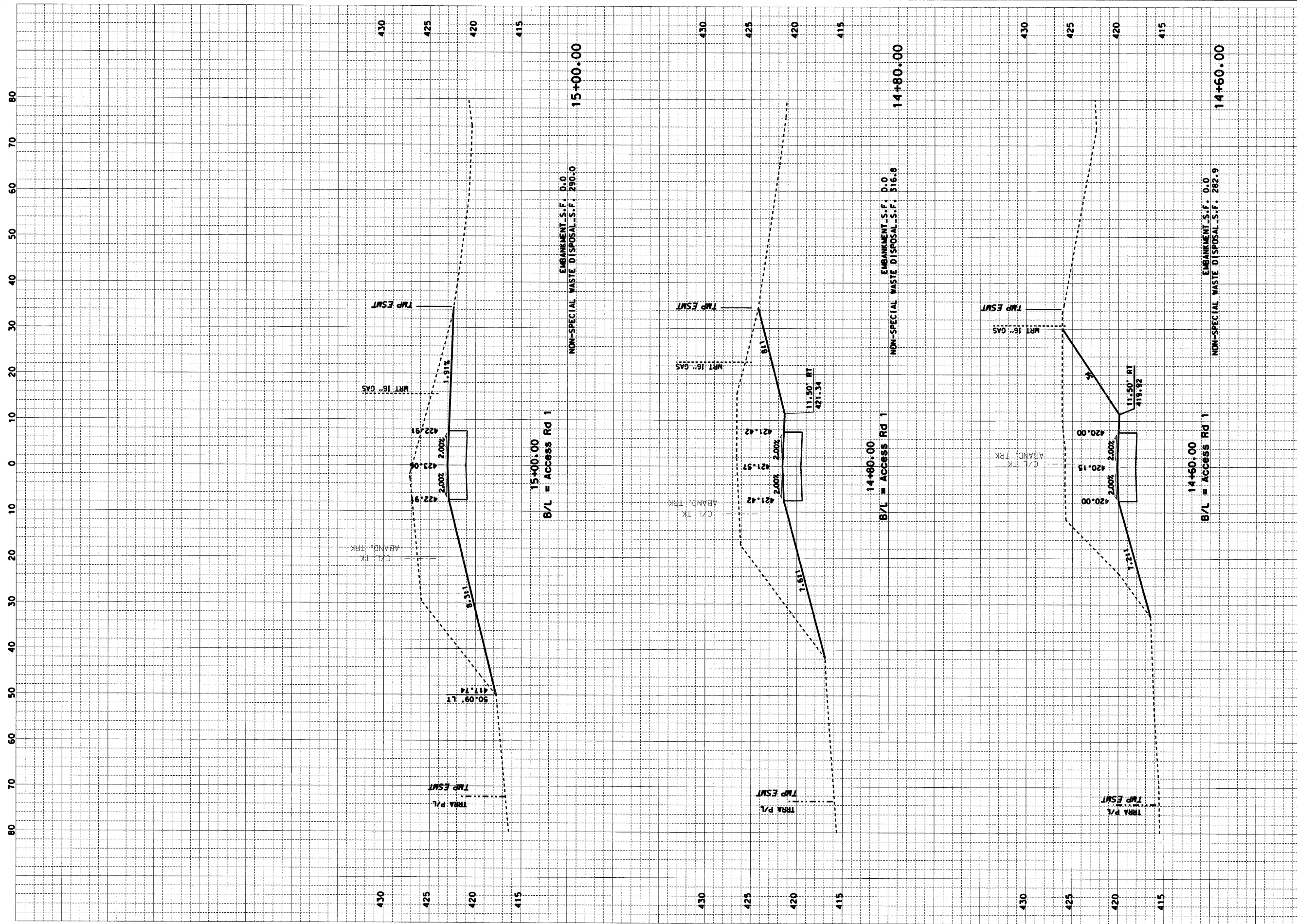
STATE OF ILLINOIS  
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MISSOURI HIGHWAYS  
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**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
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SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631

**HNTB**  
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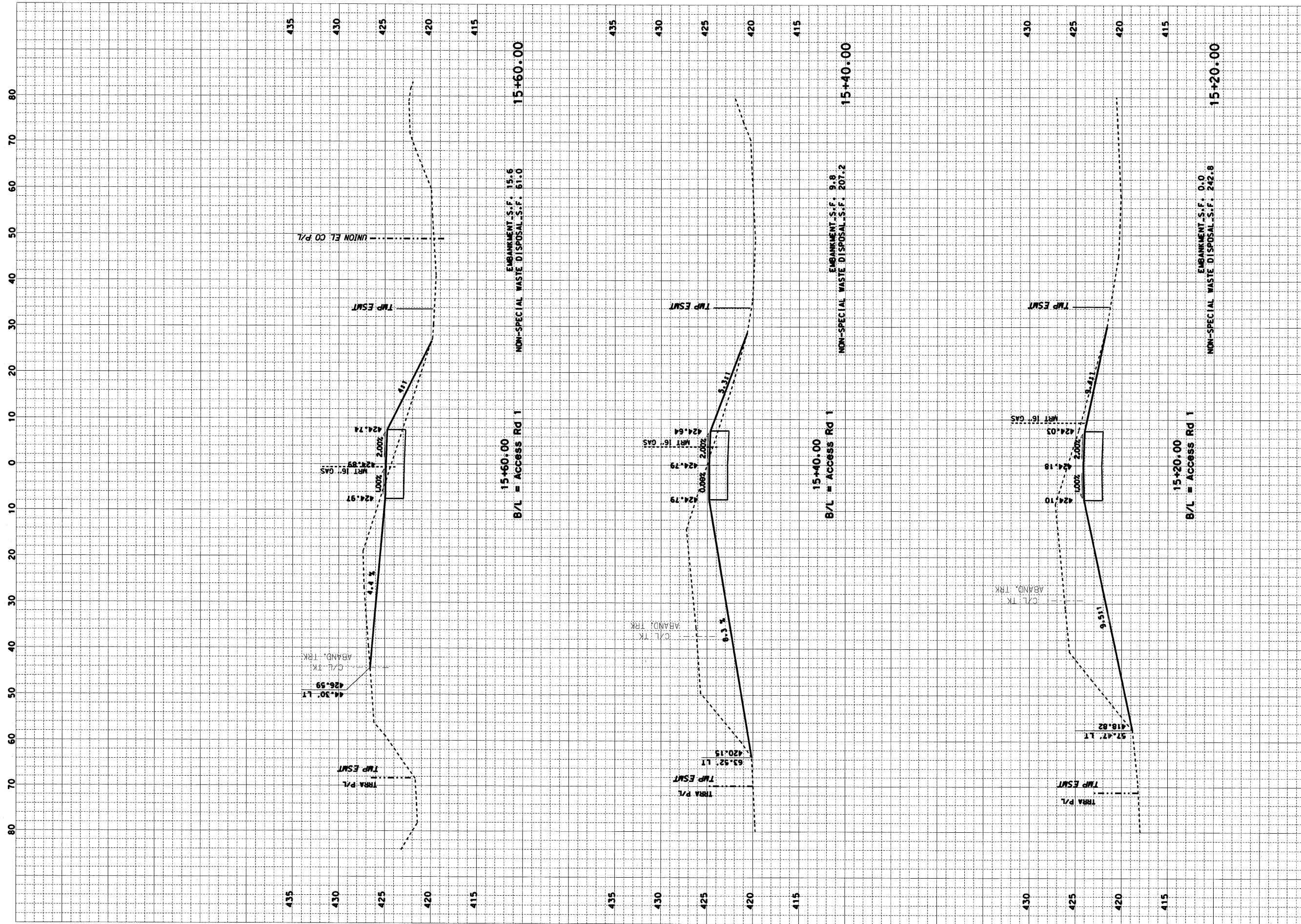
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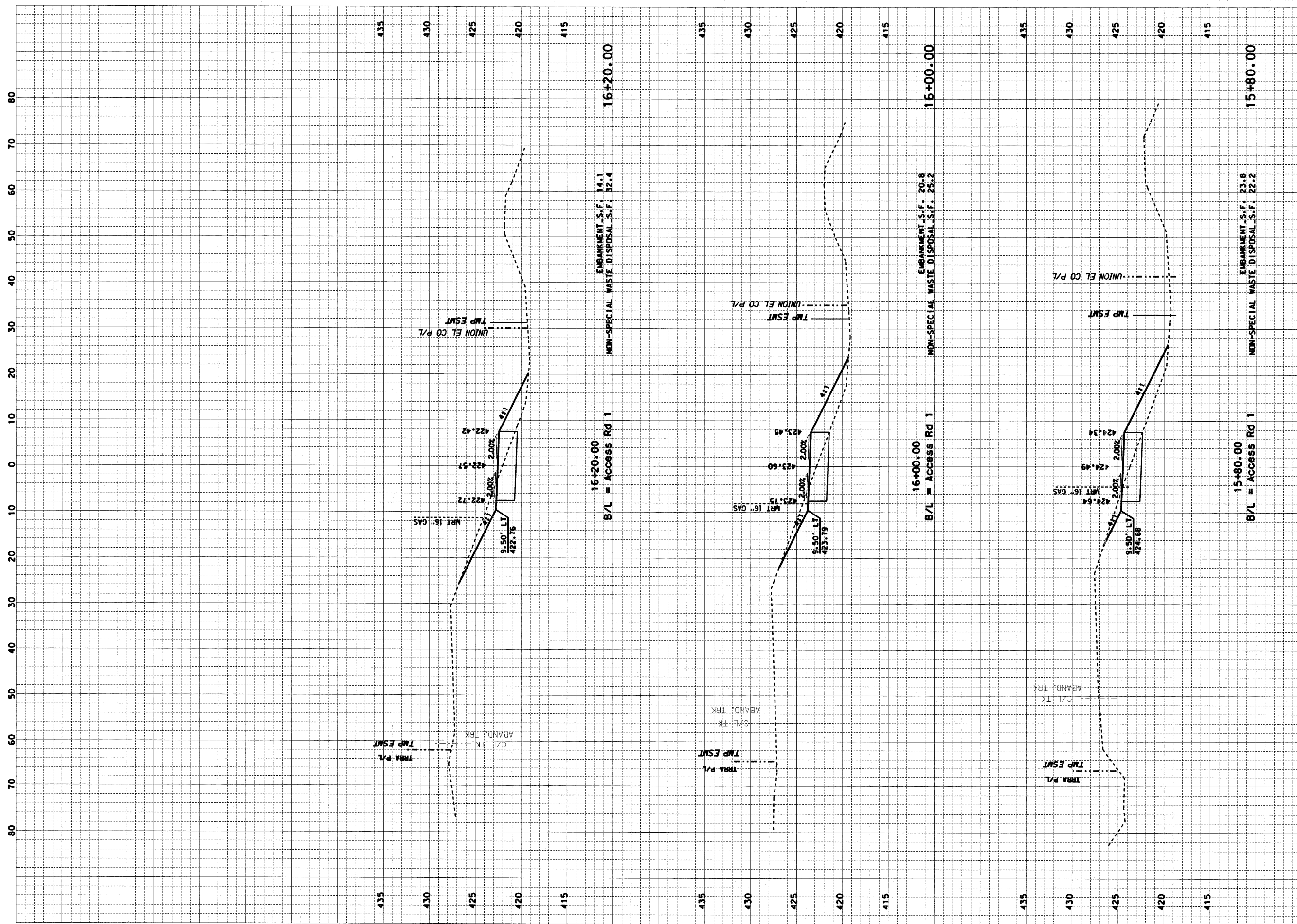
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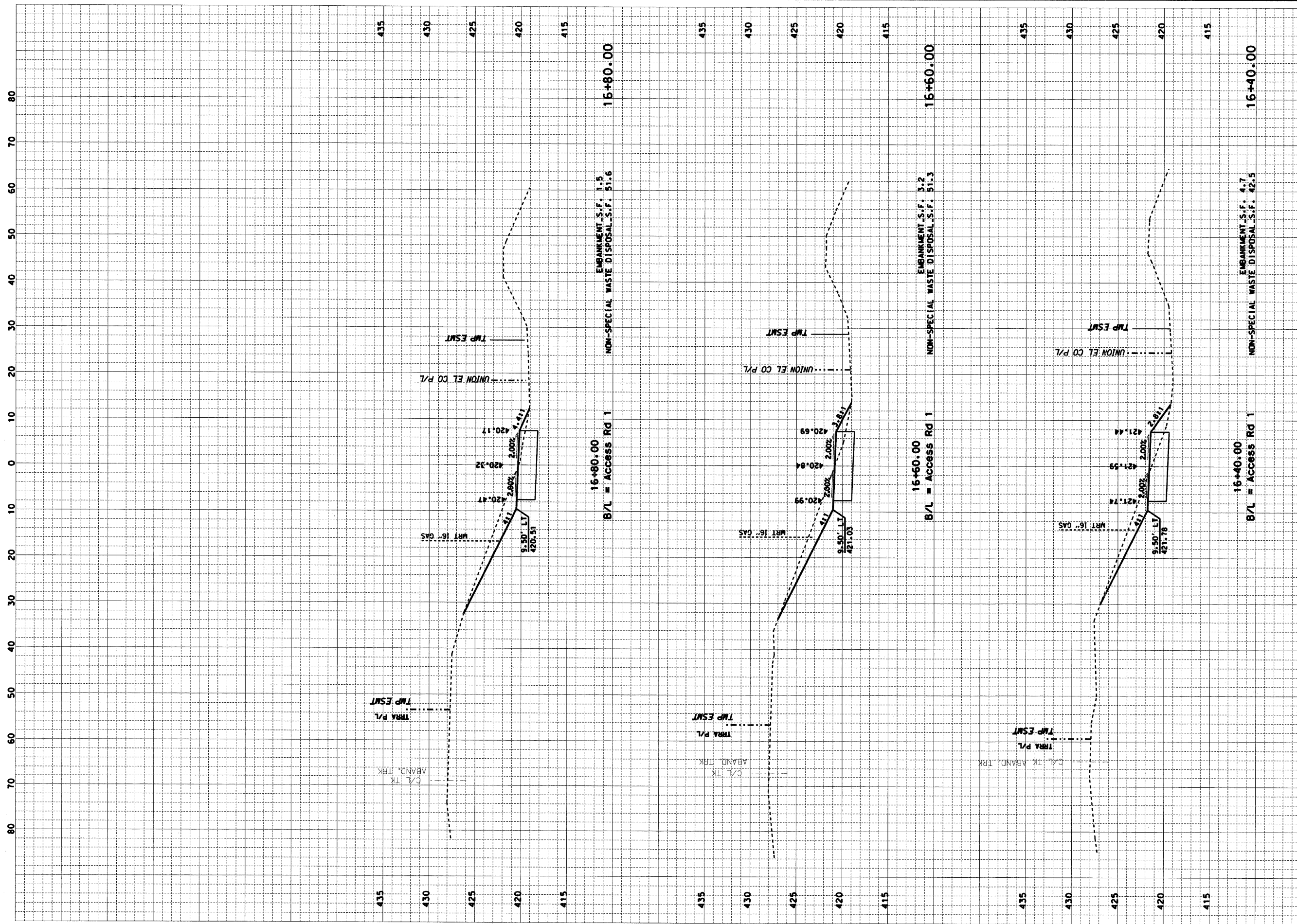
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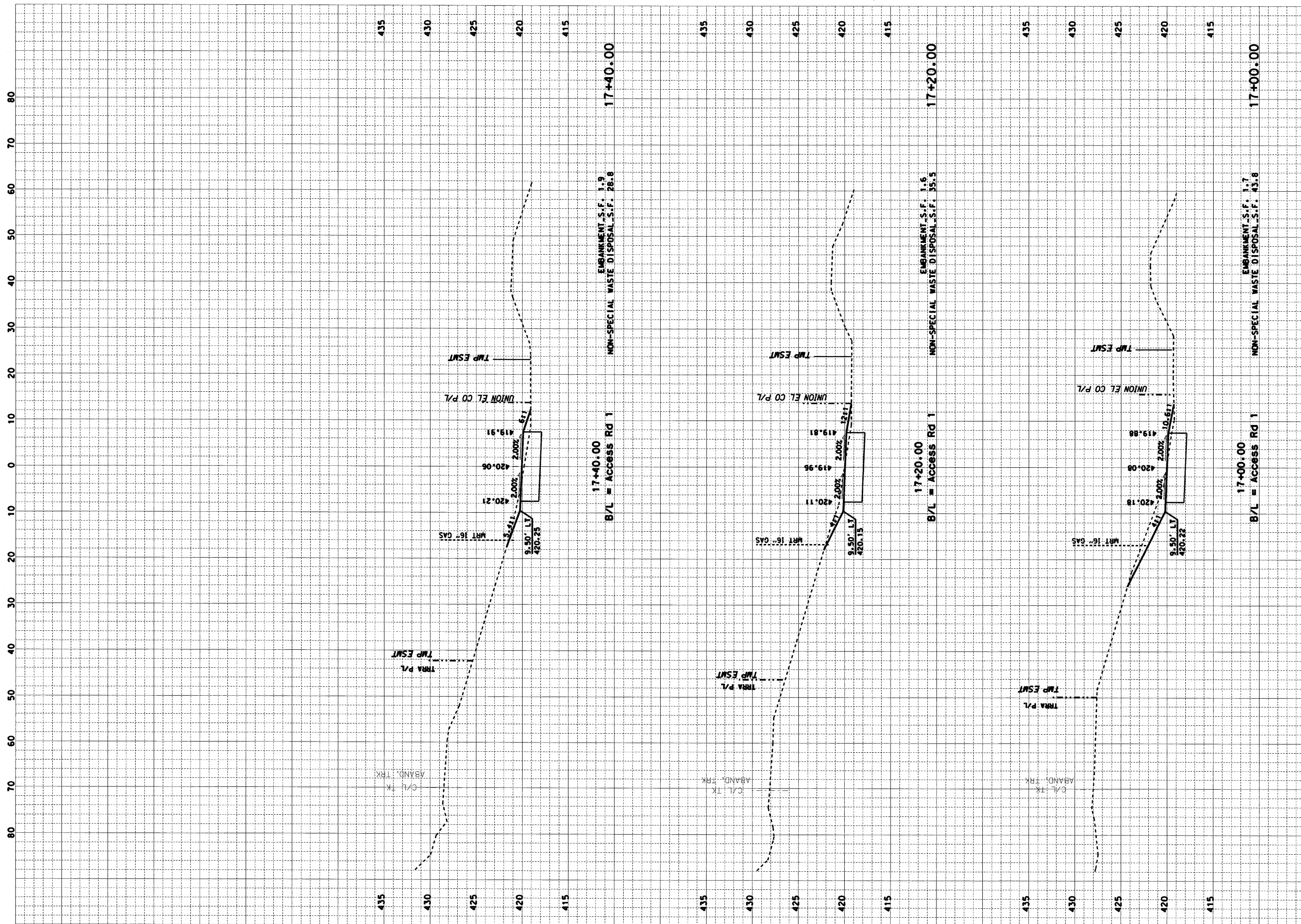


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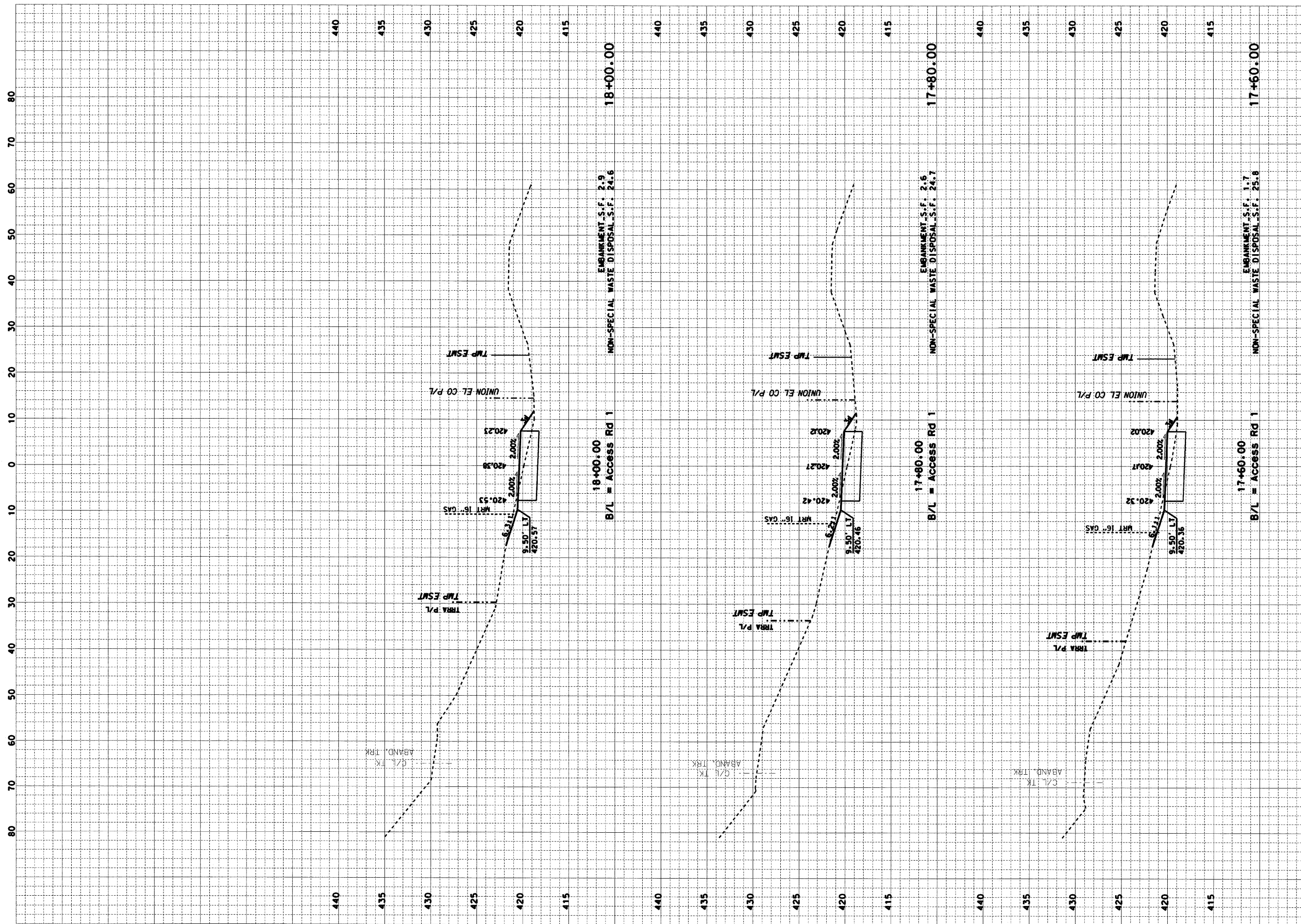
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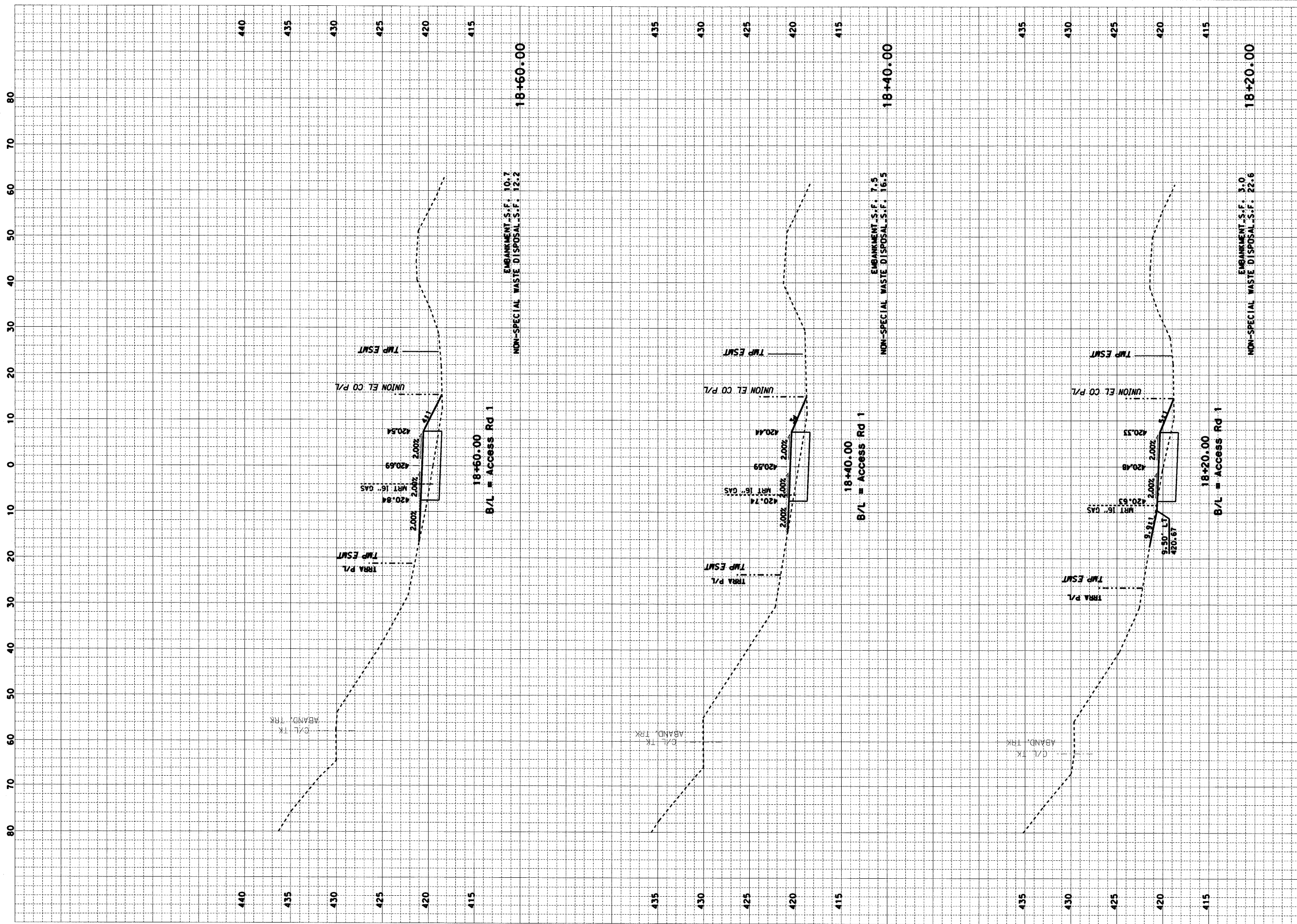
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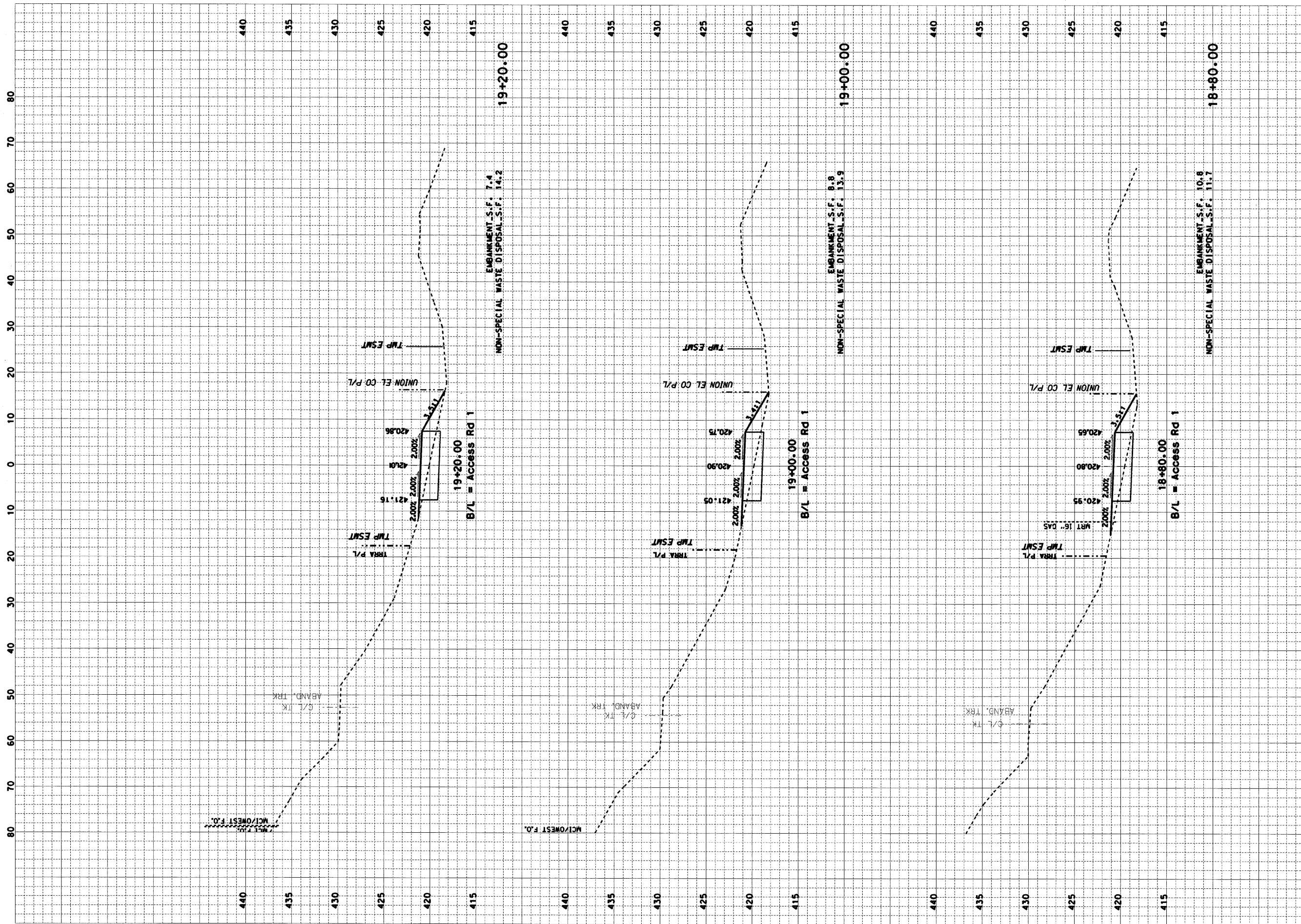
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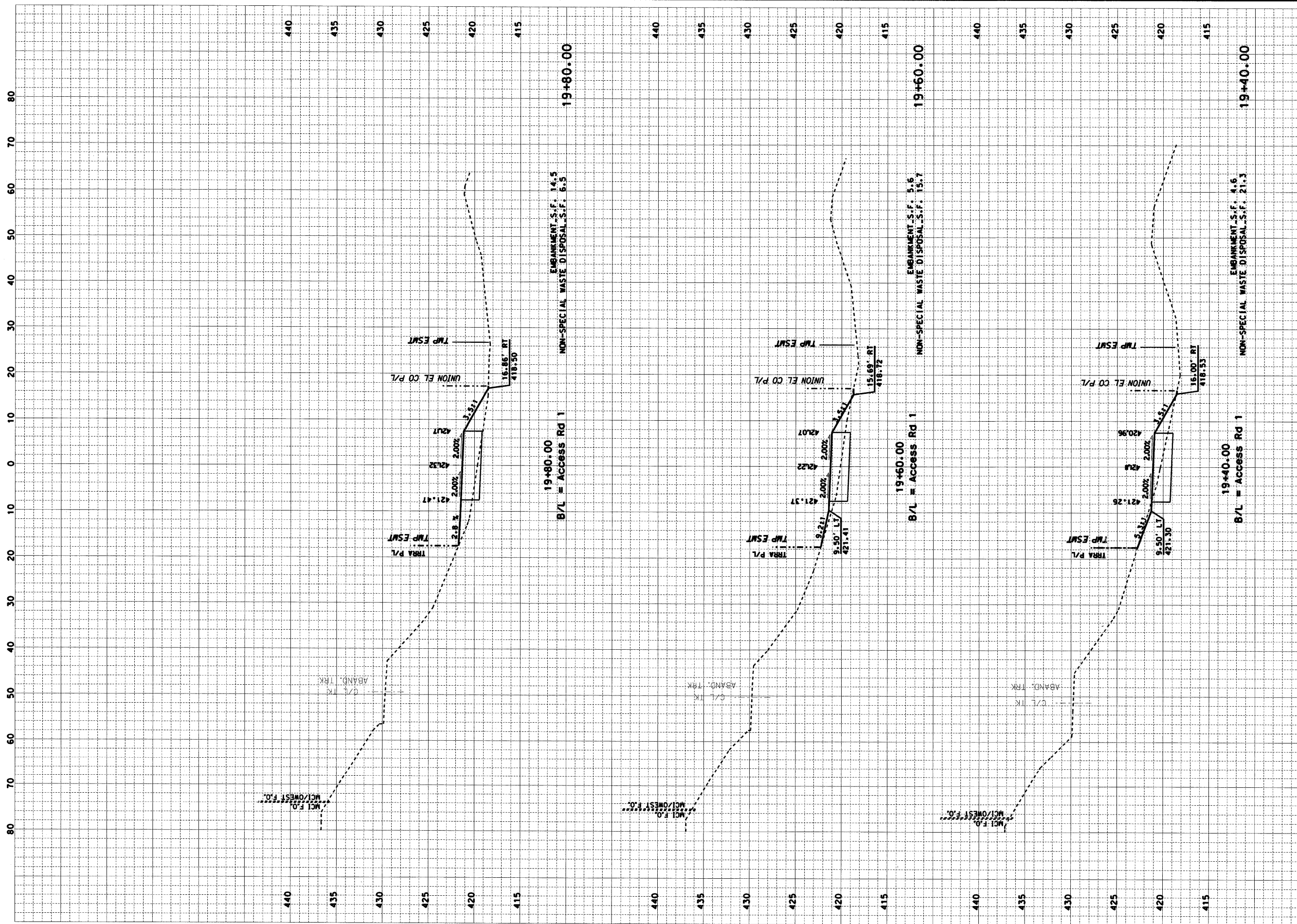
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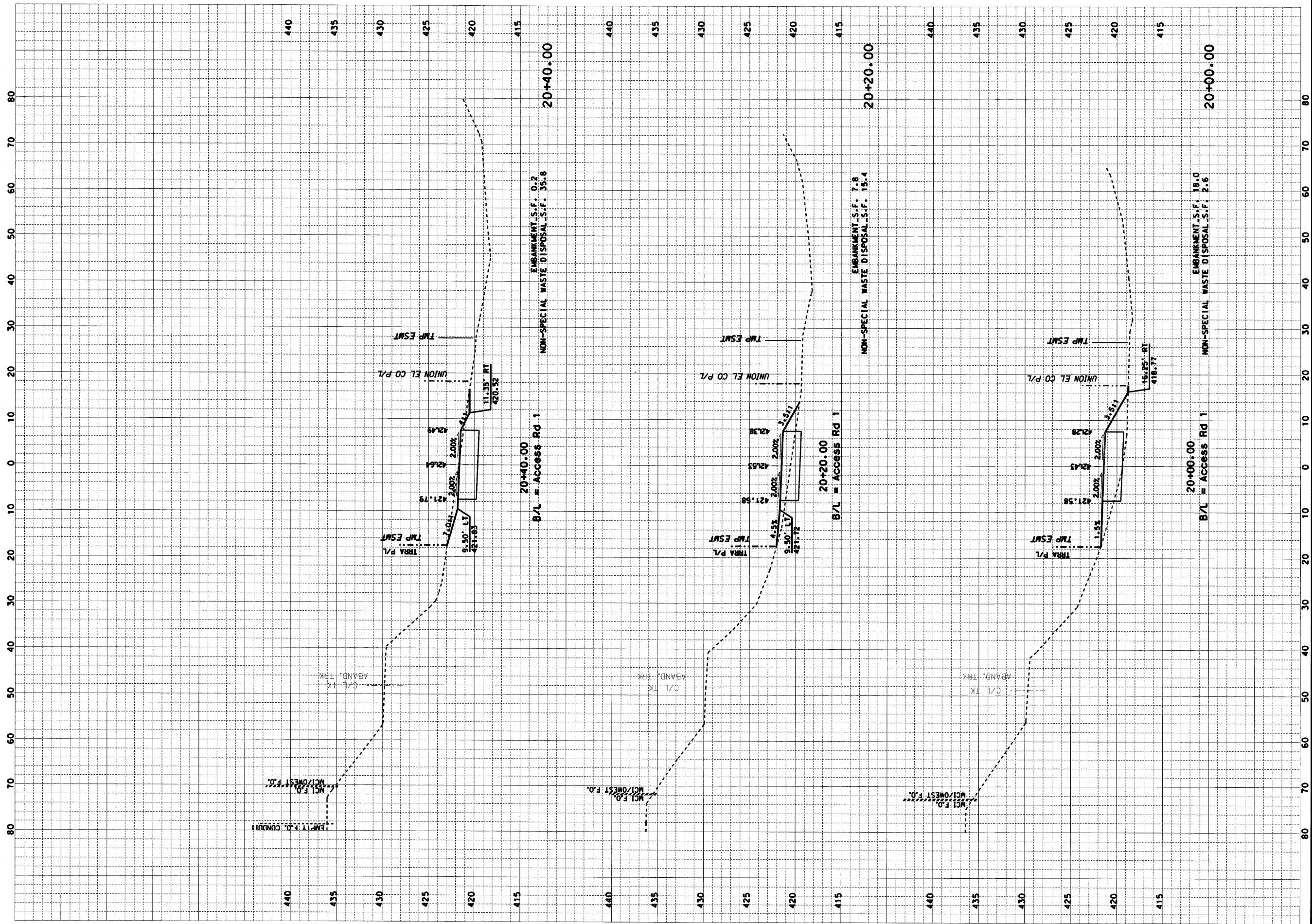
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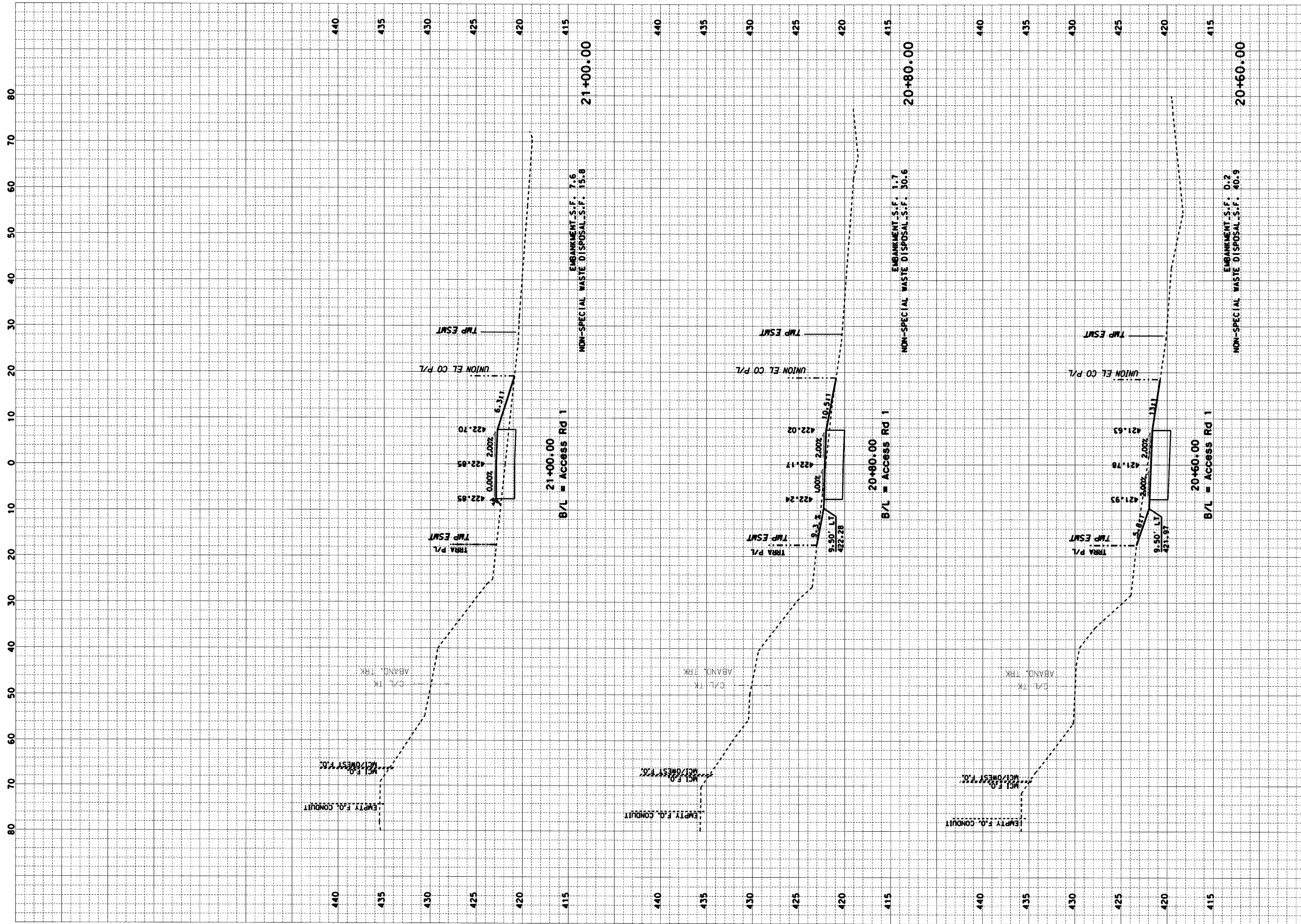
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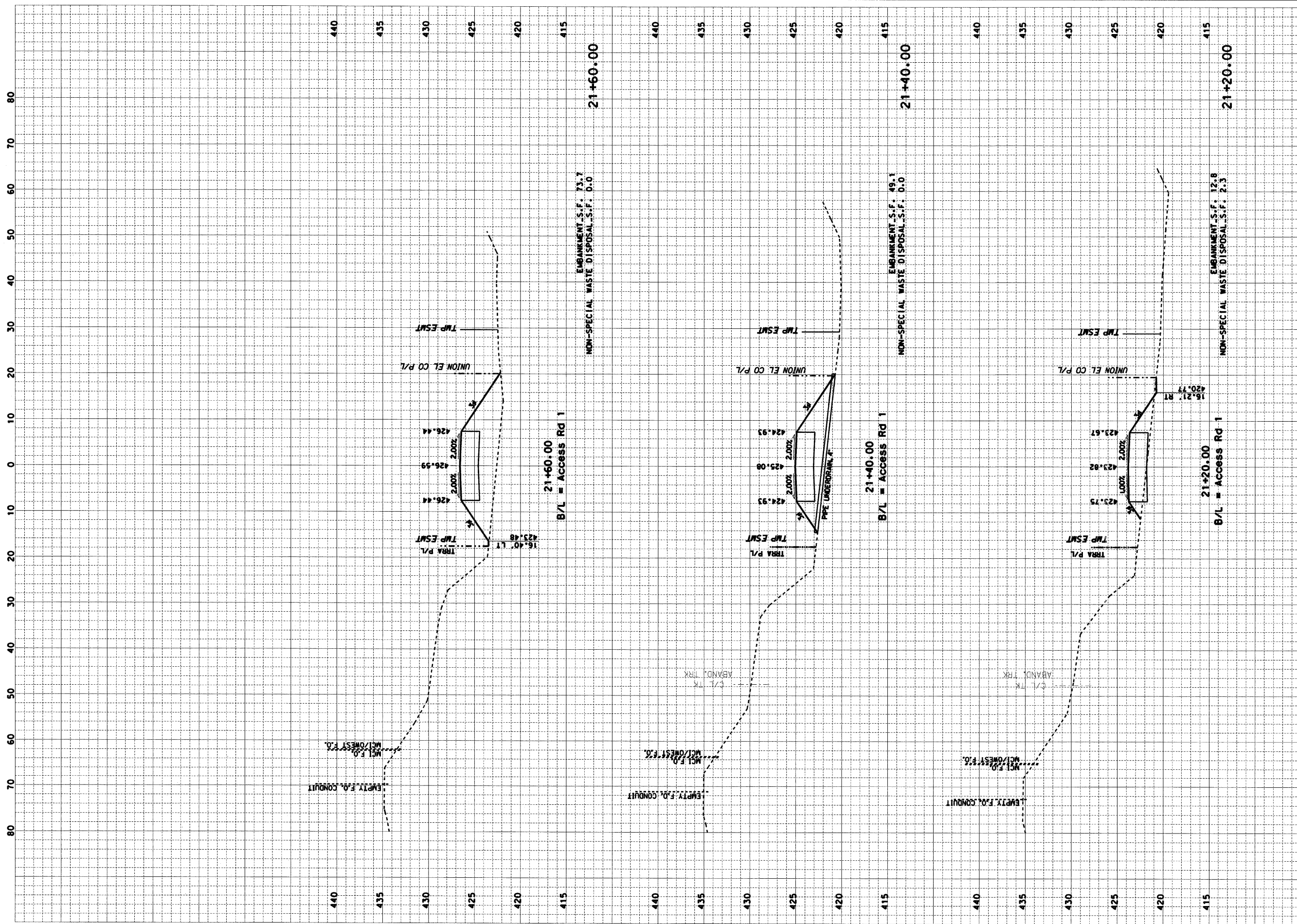
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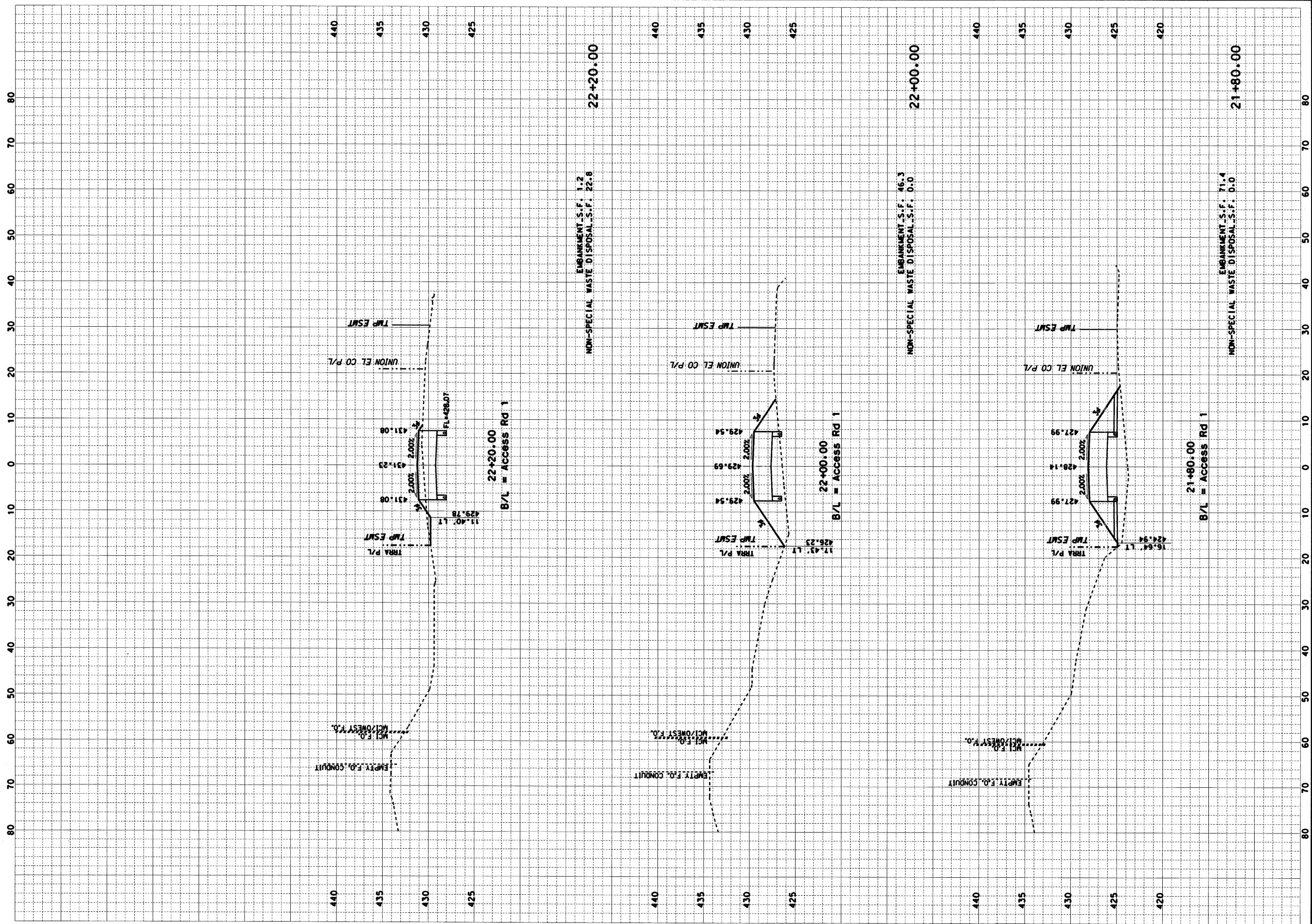


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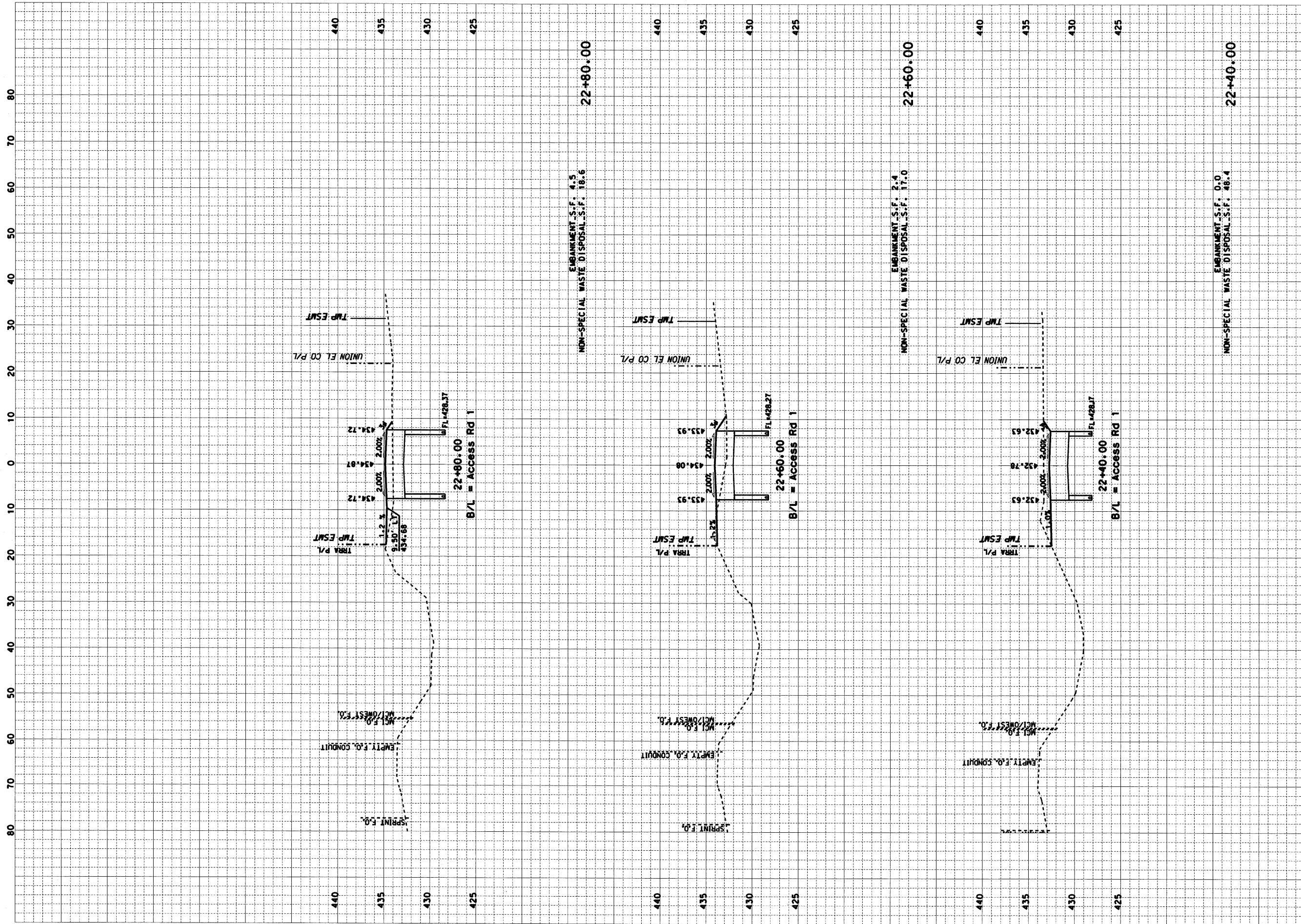
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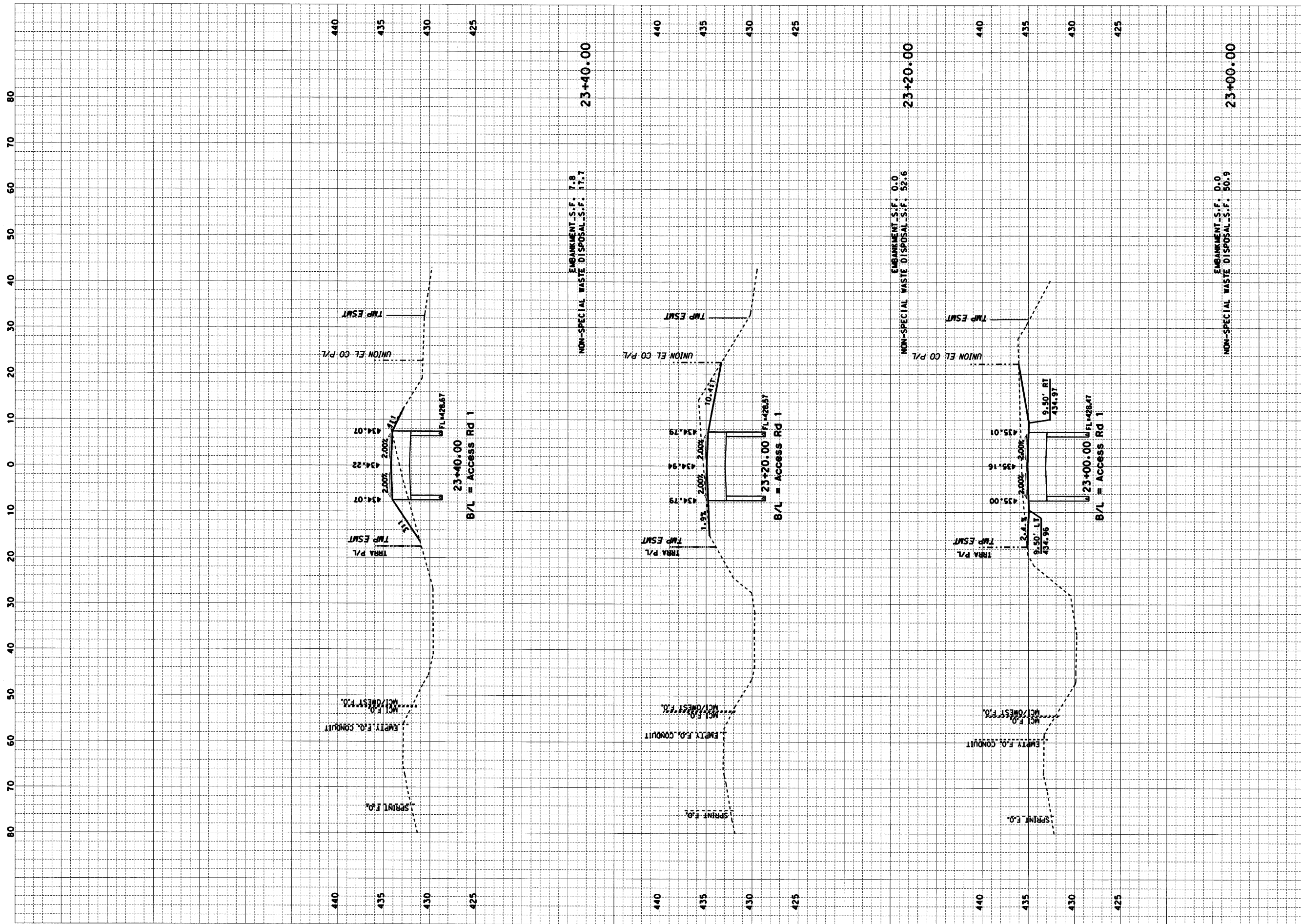
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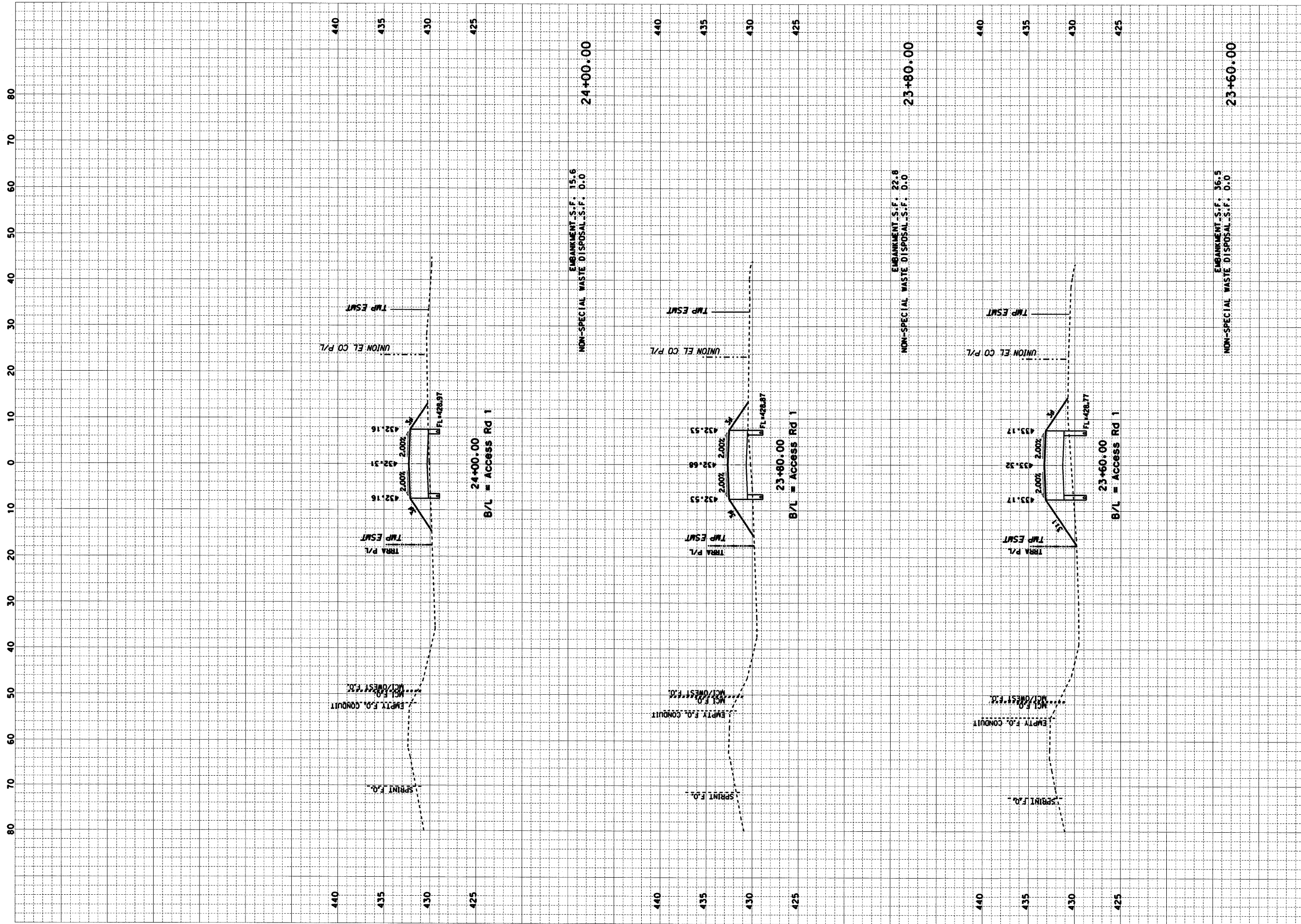
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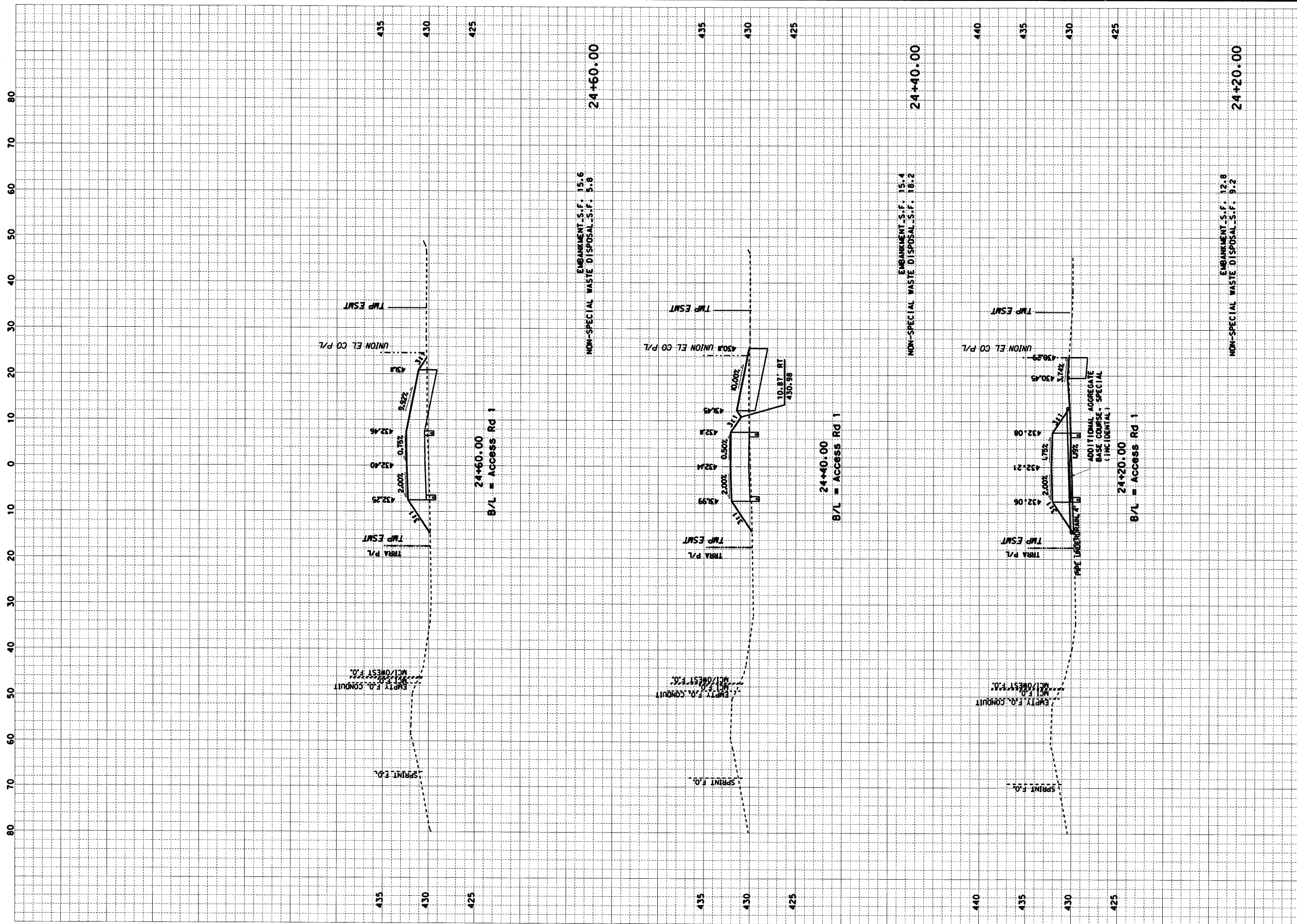
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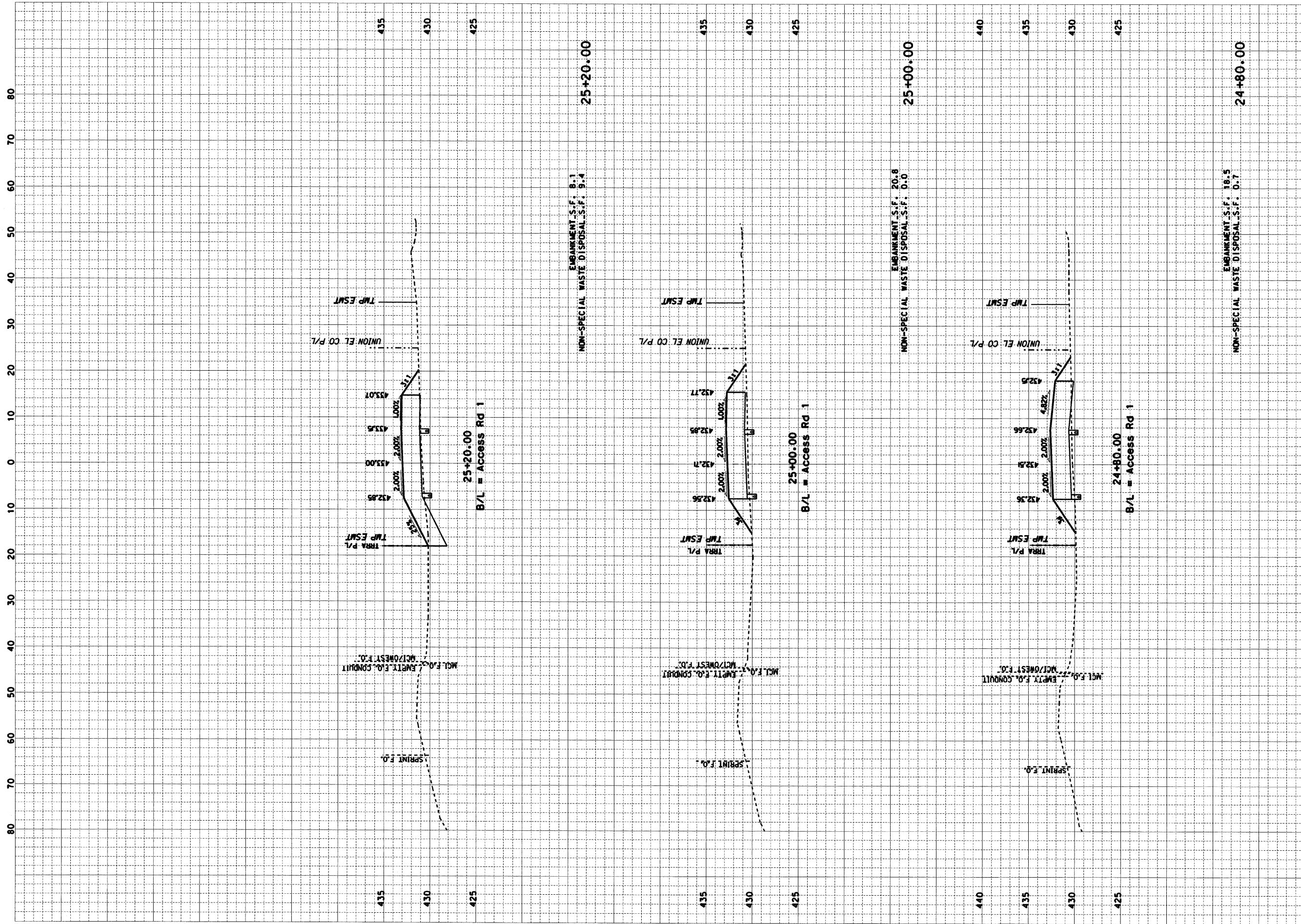
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FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
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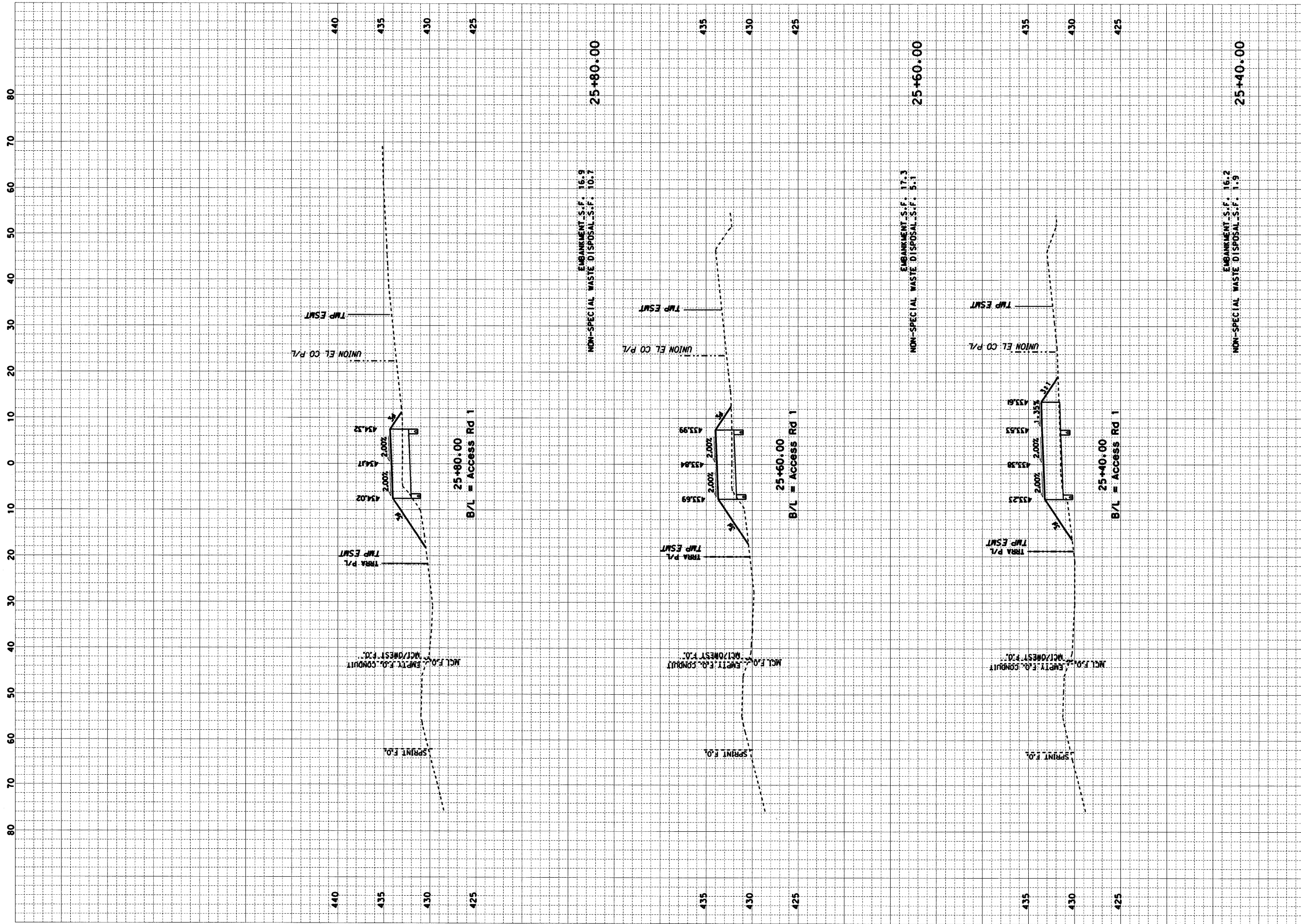
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 K IRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

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CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631





CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10.0000' / IN.	
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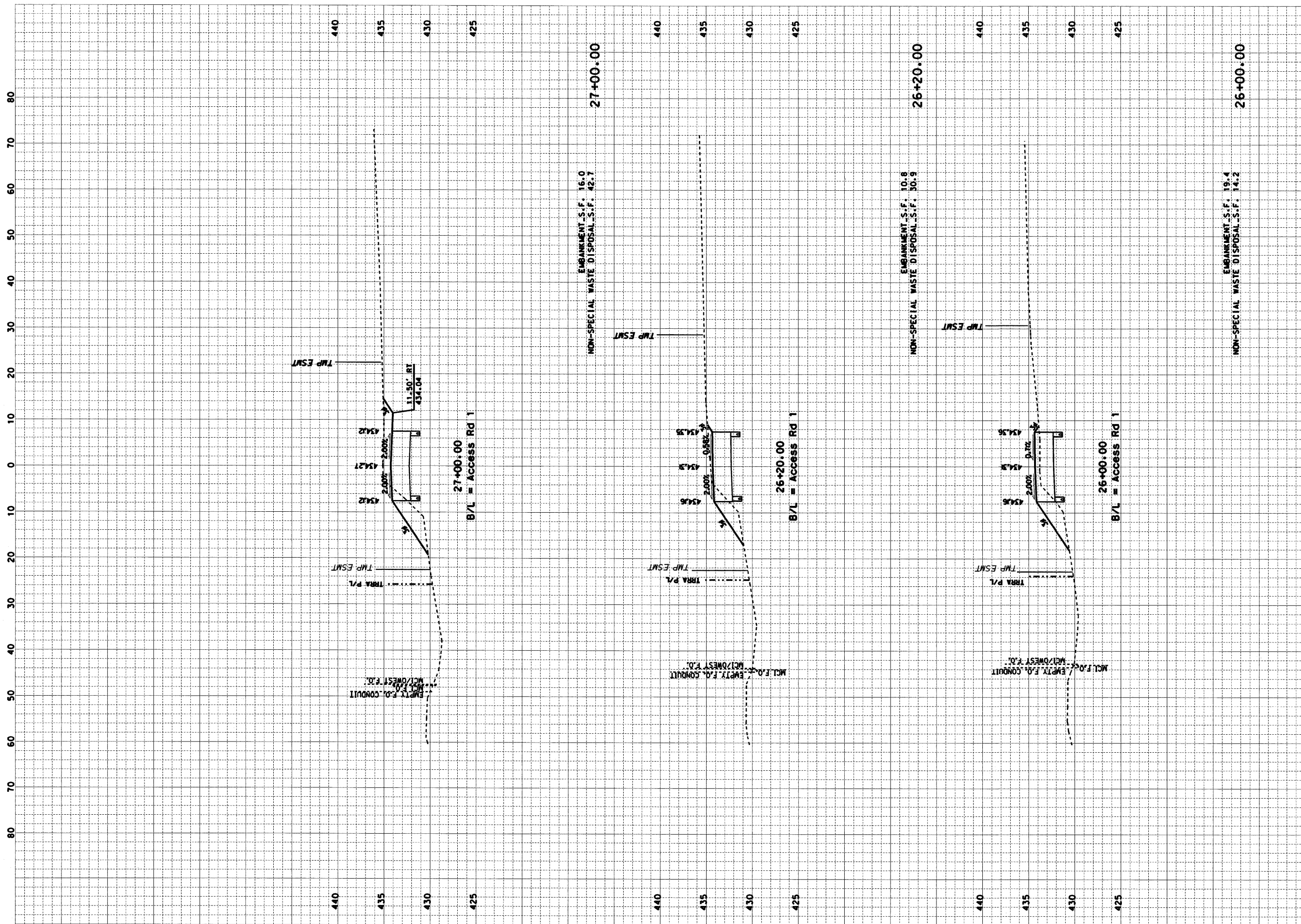
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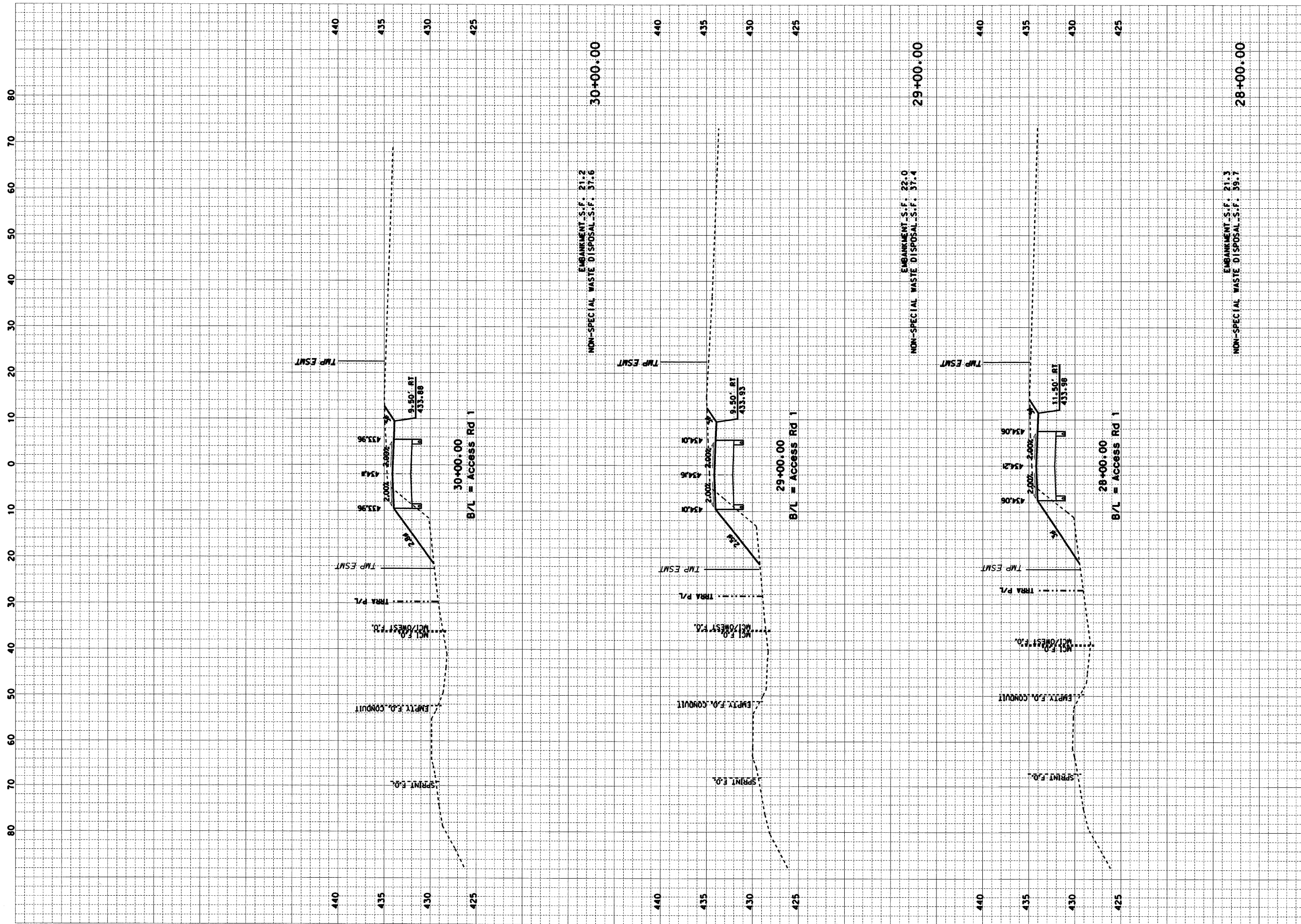
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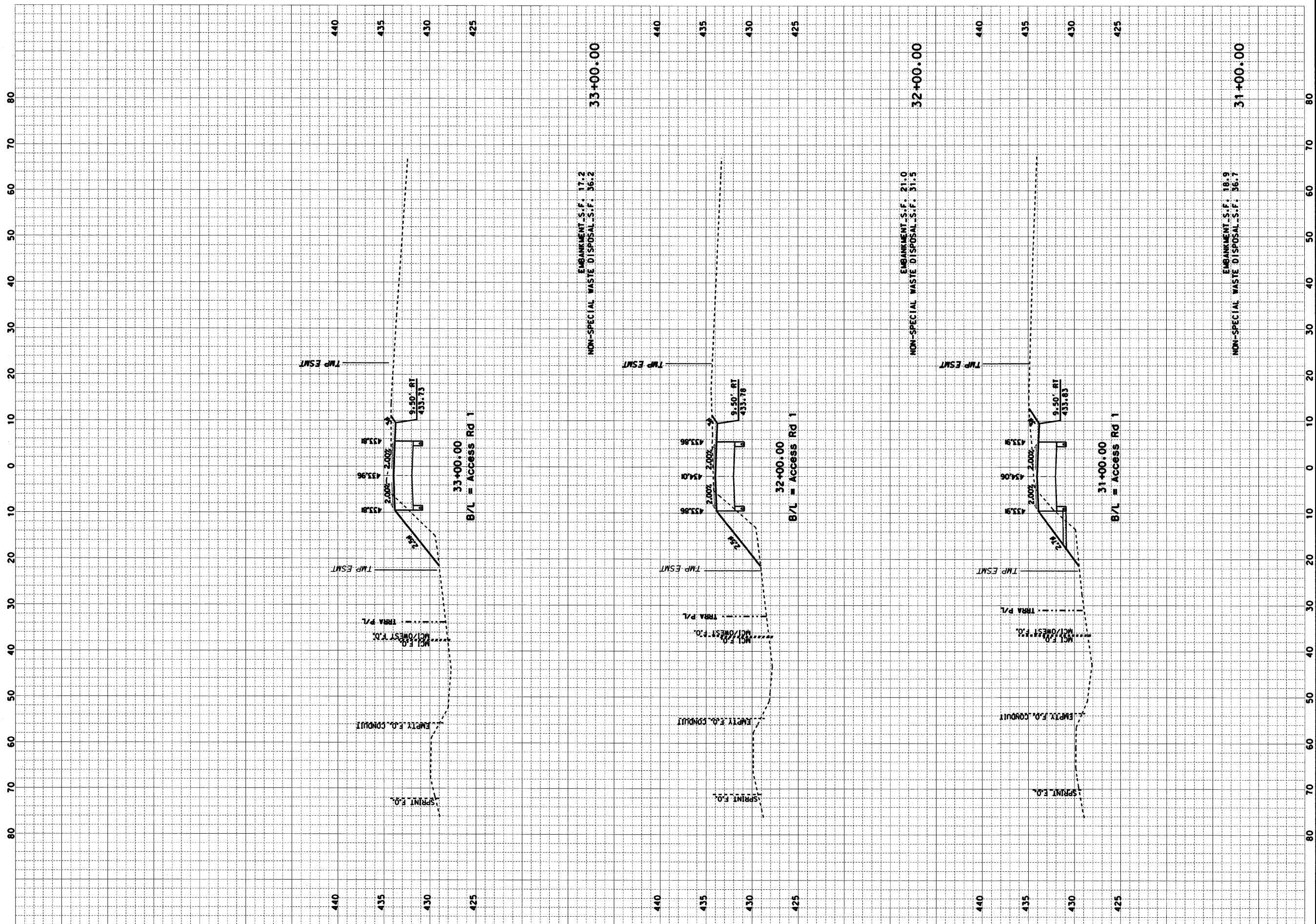
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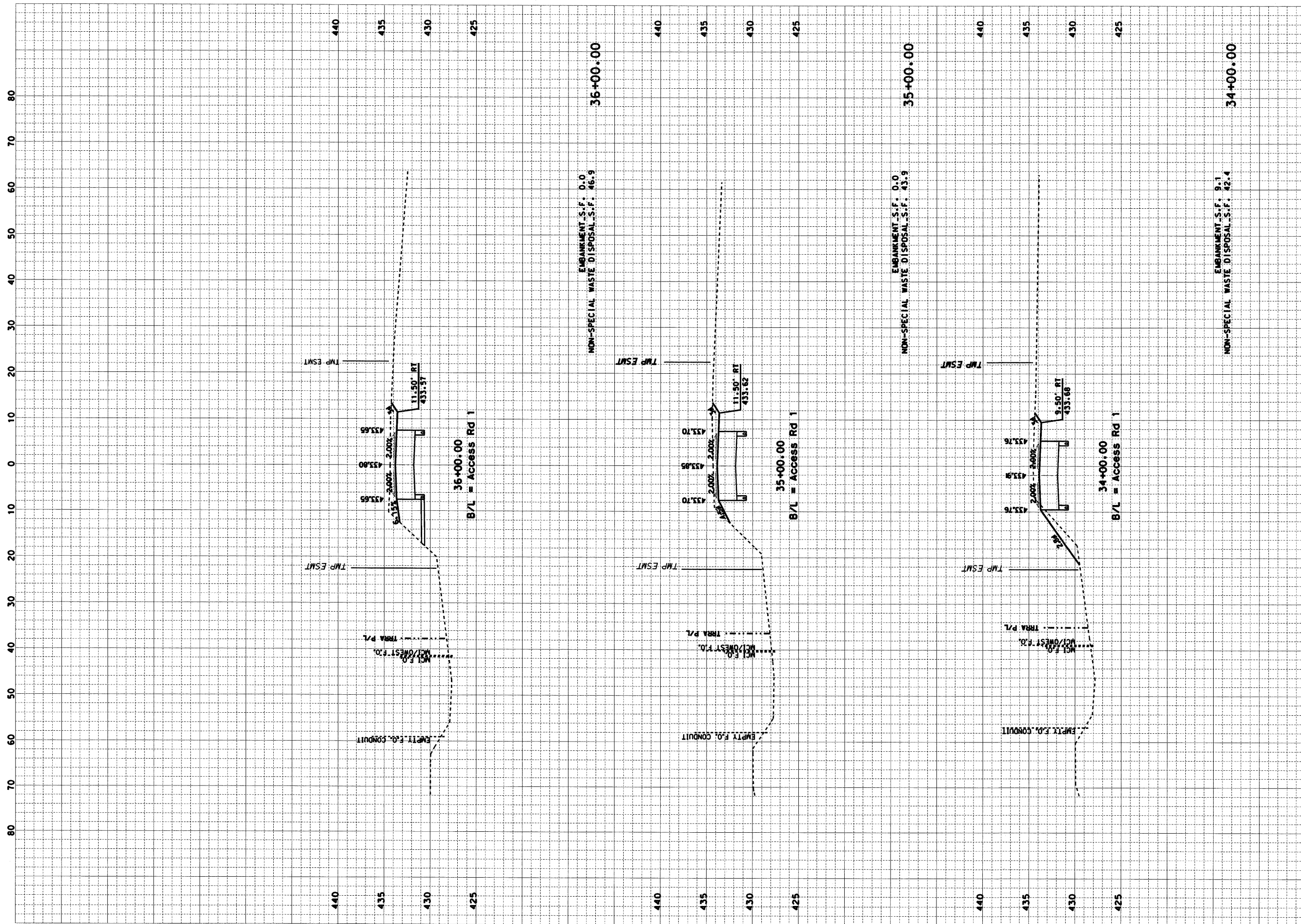
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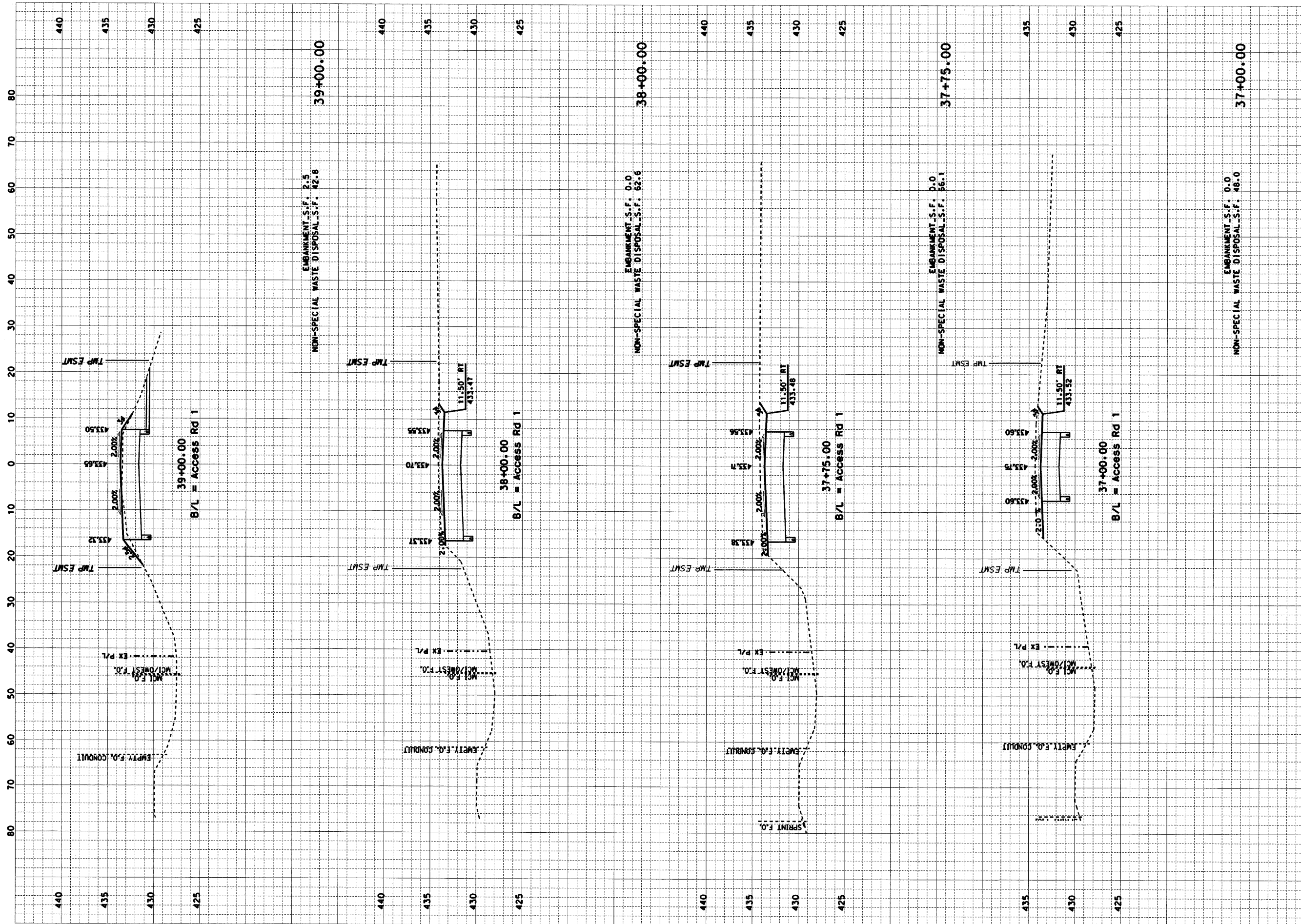
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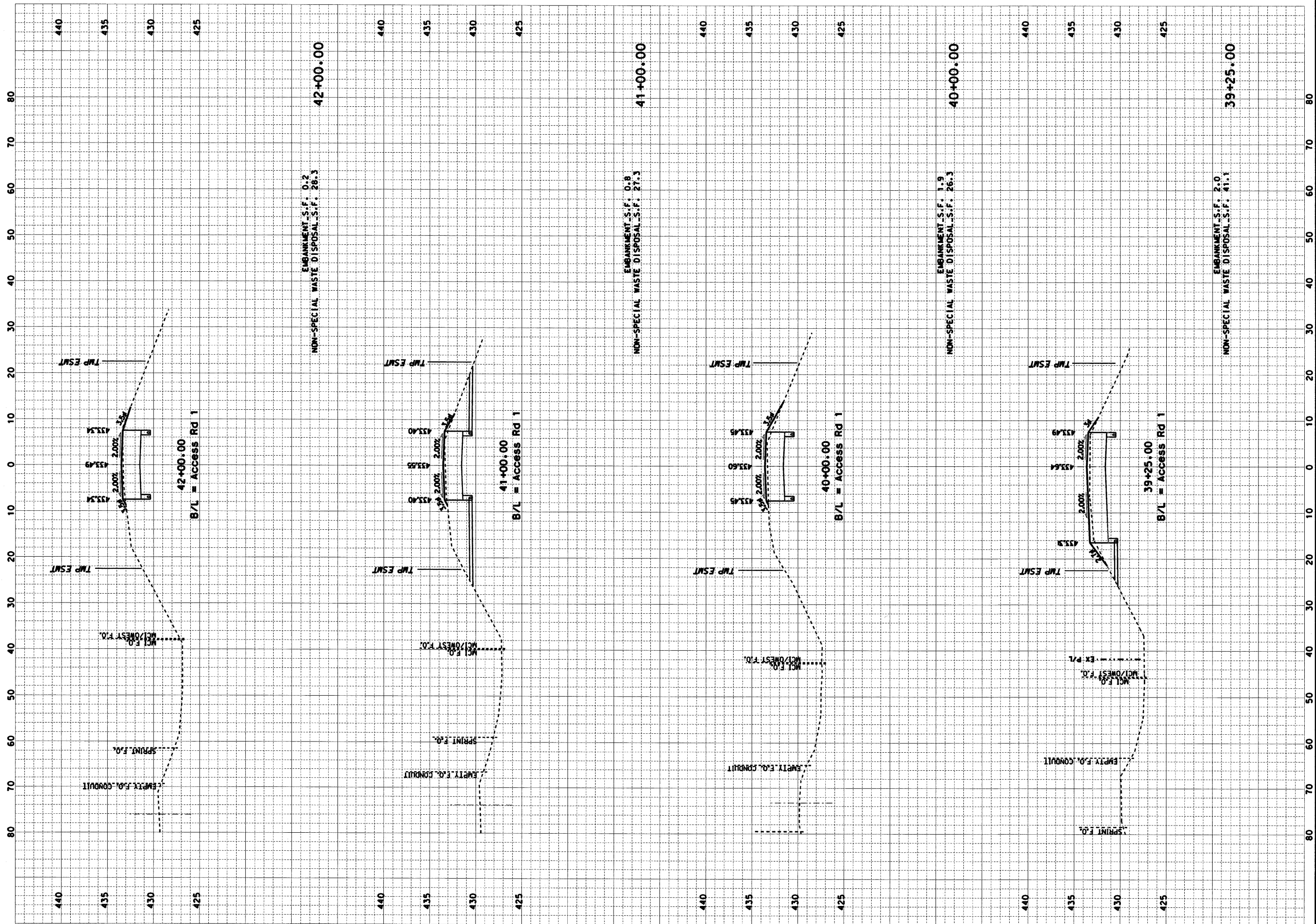
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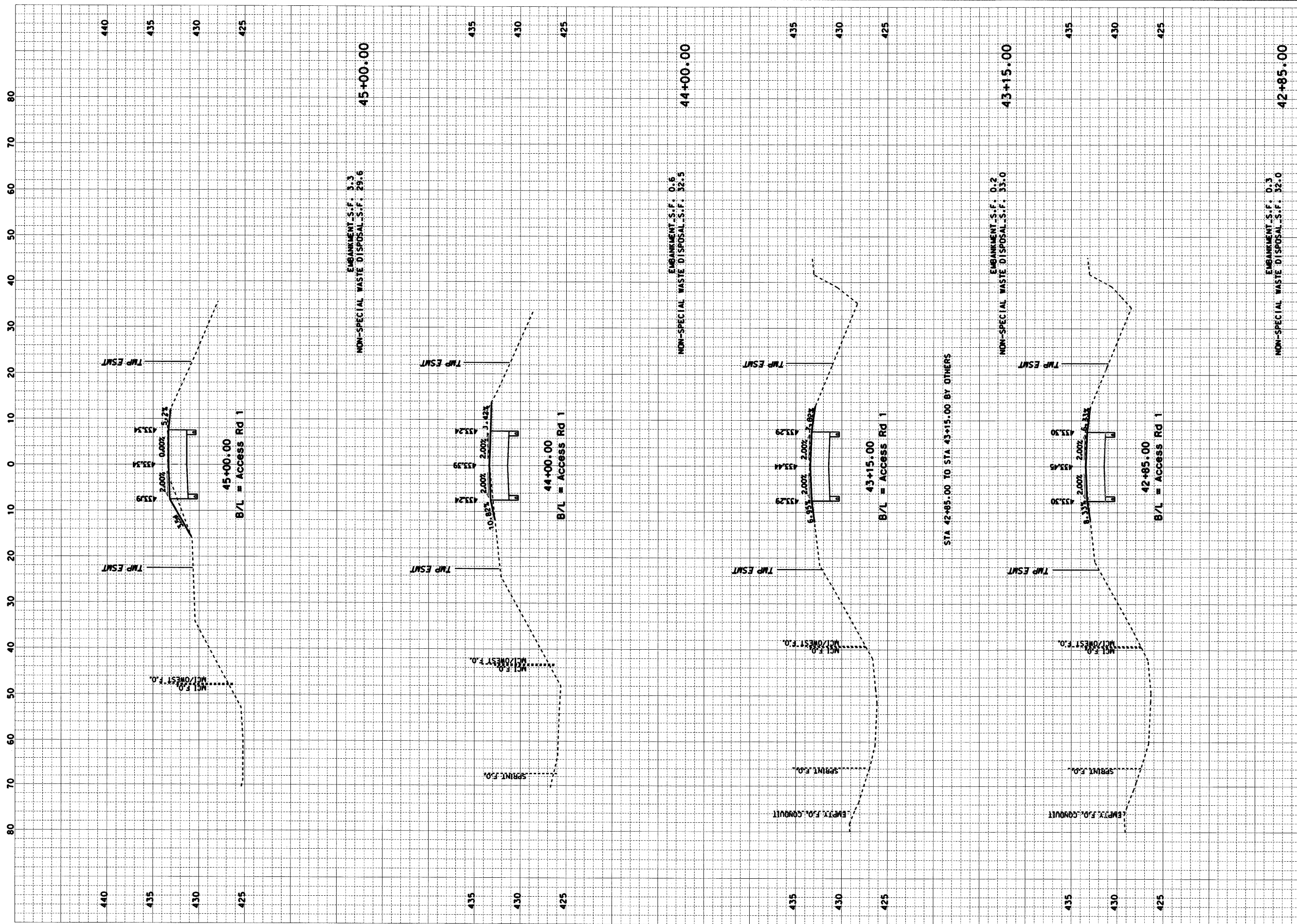
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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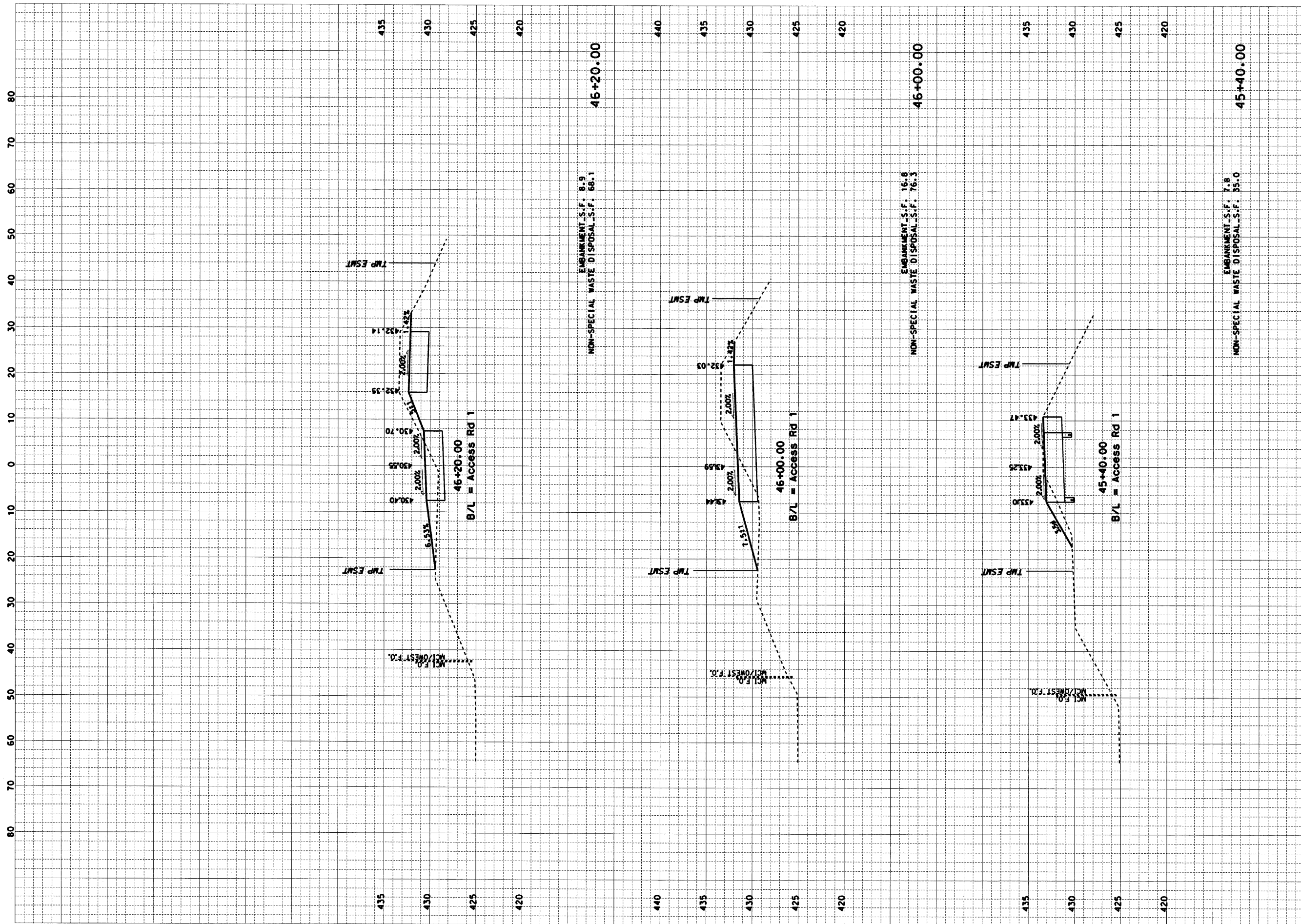


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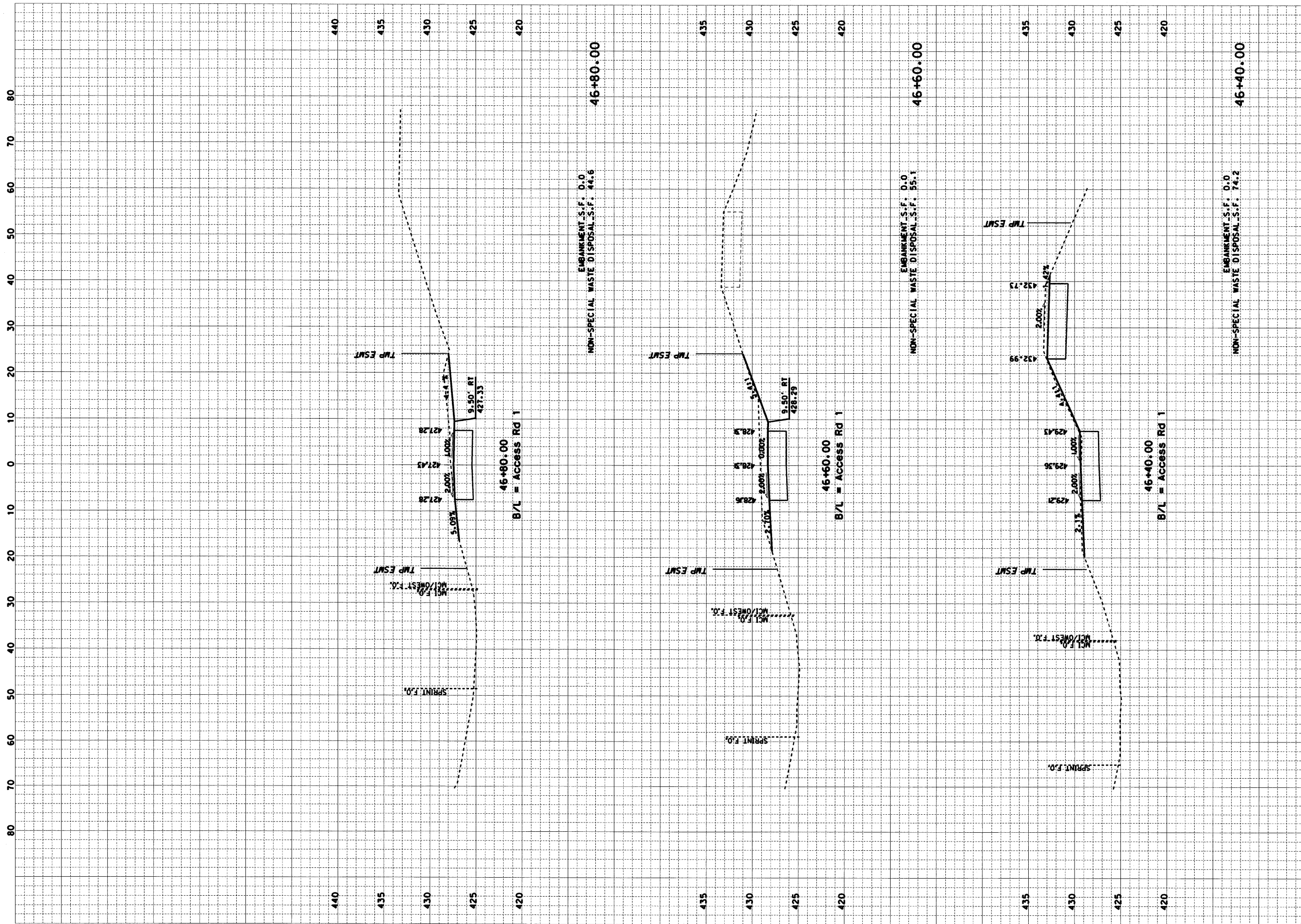
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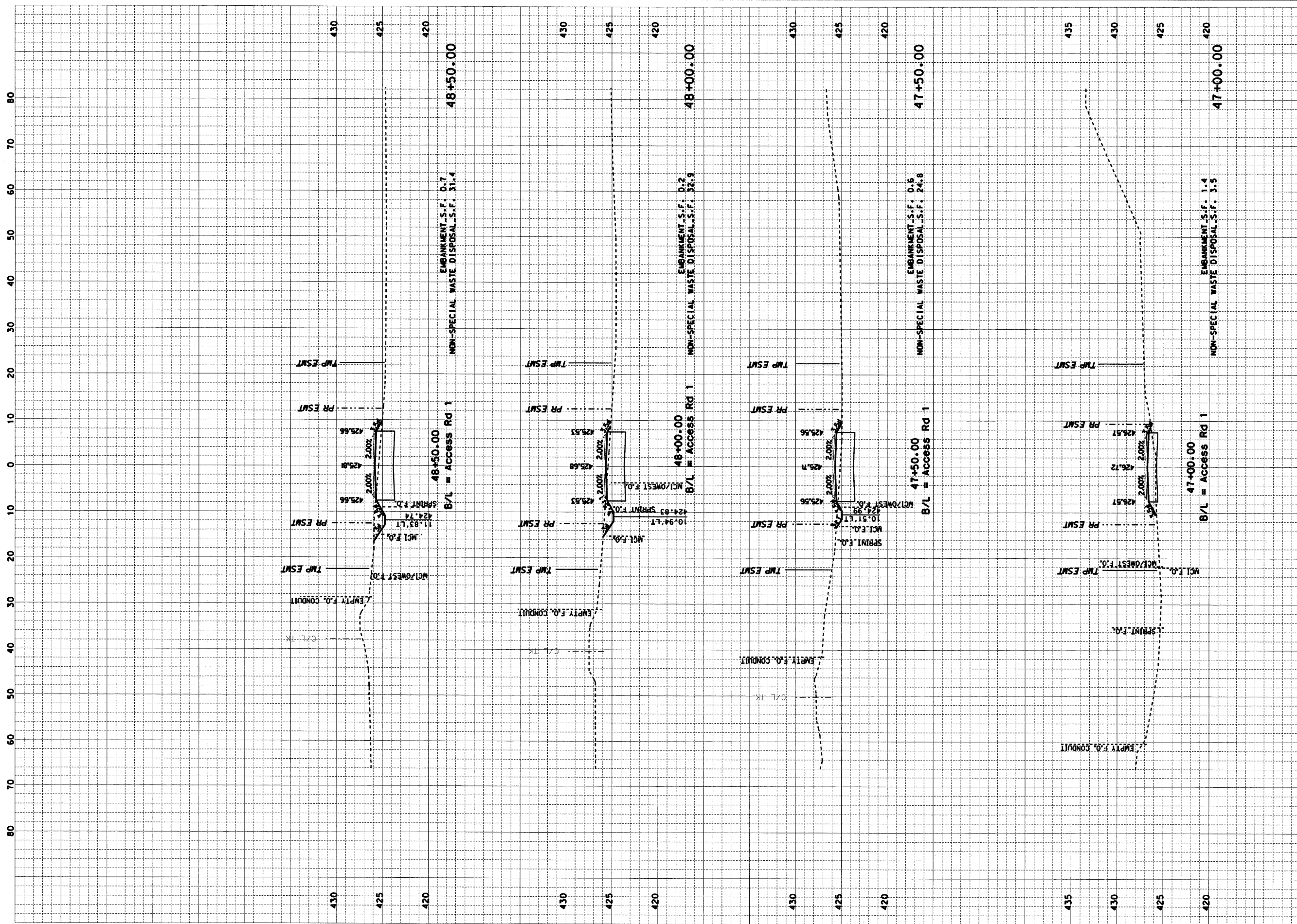
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

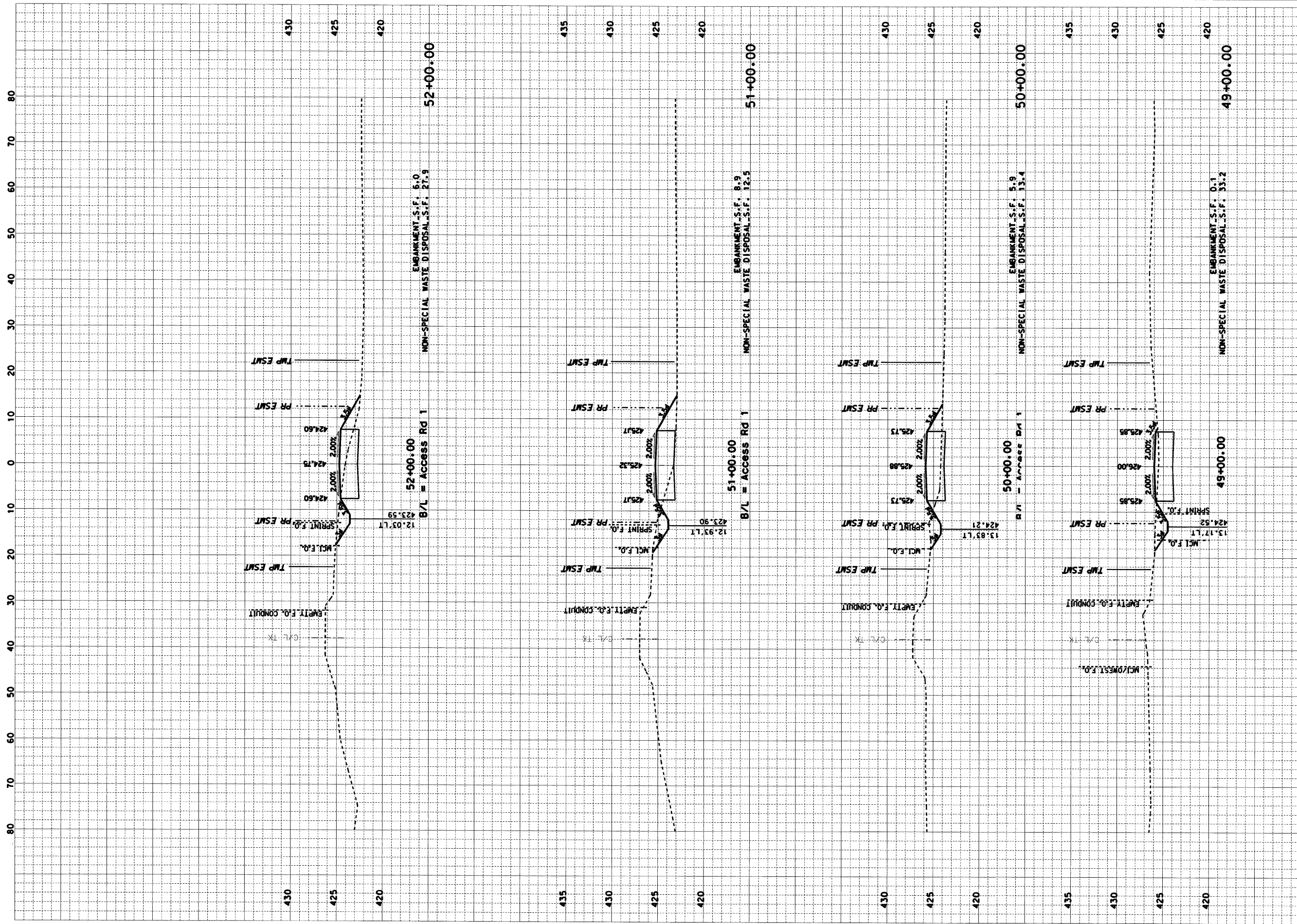
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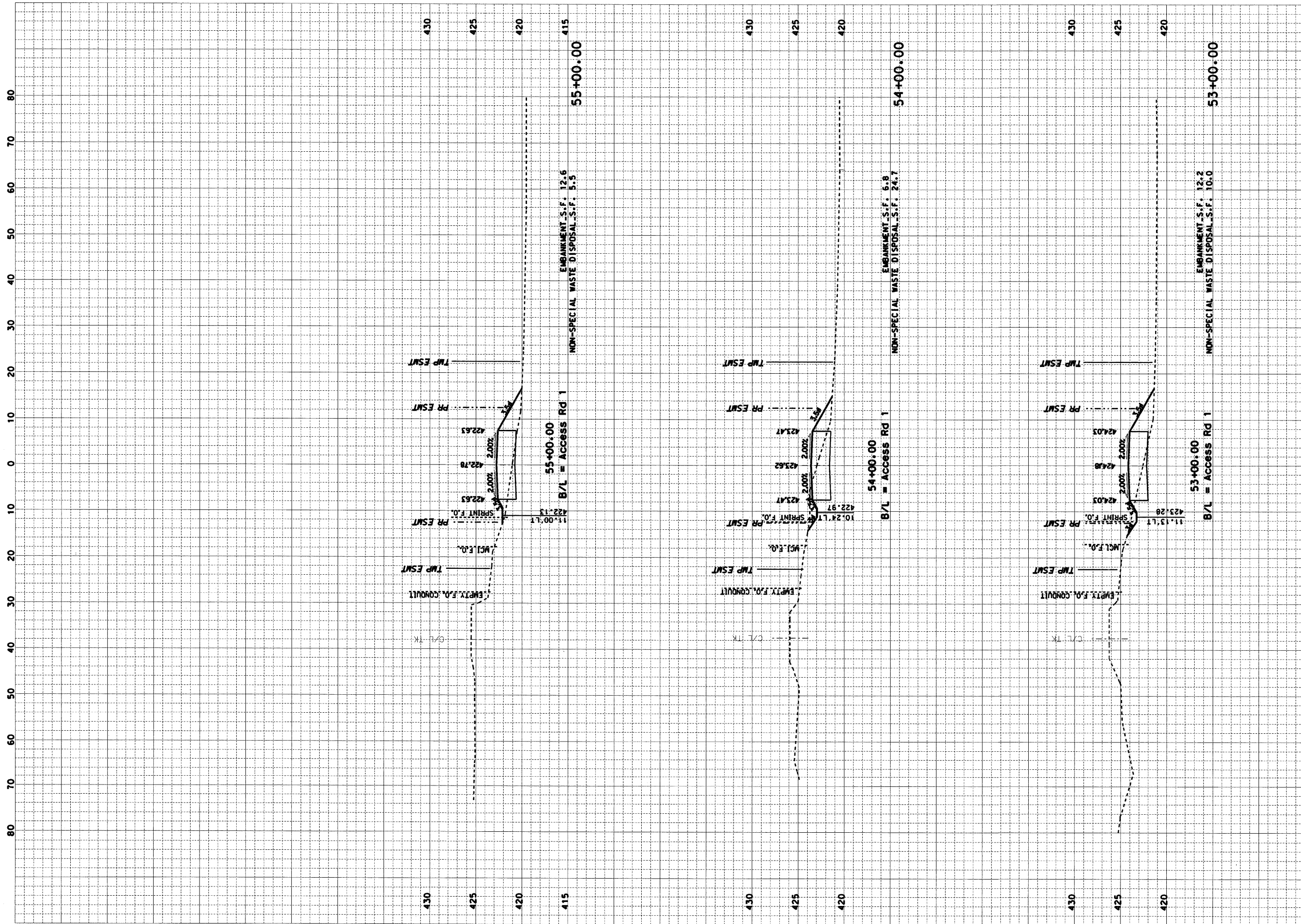
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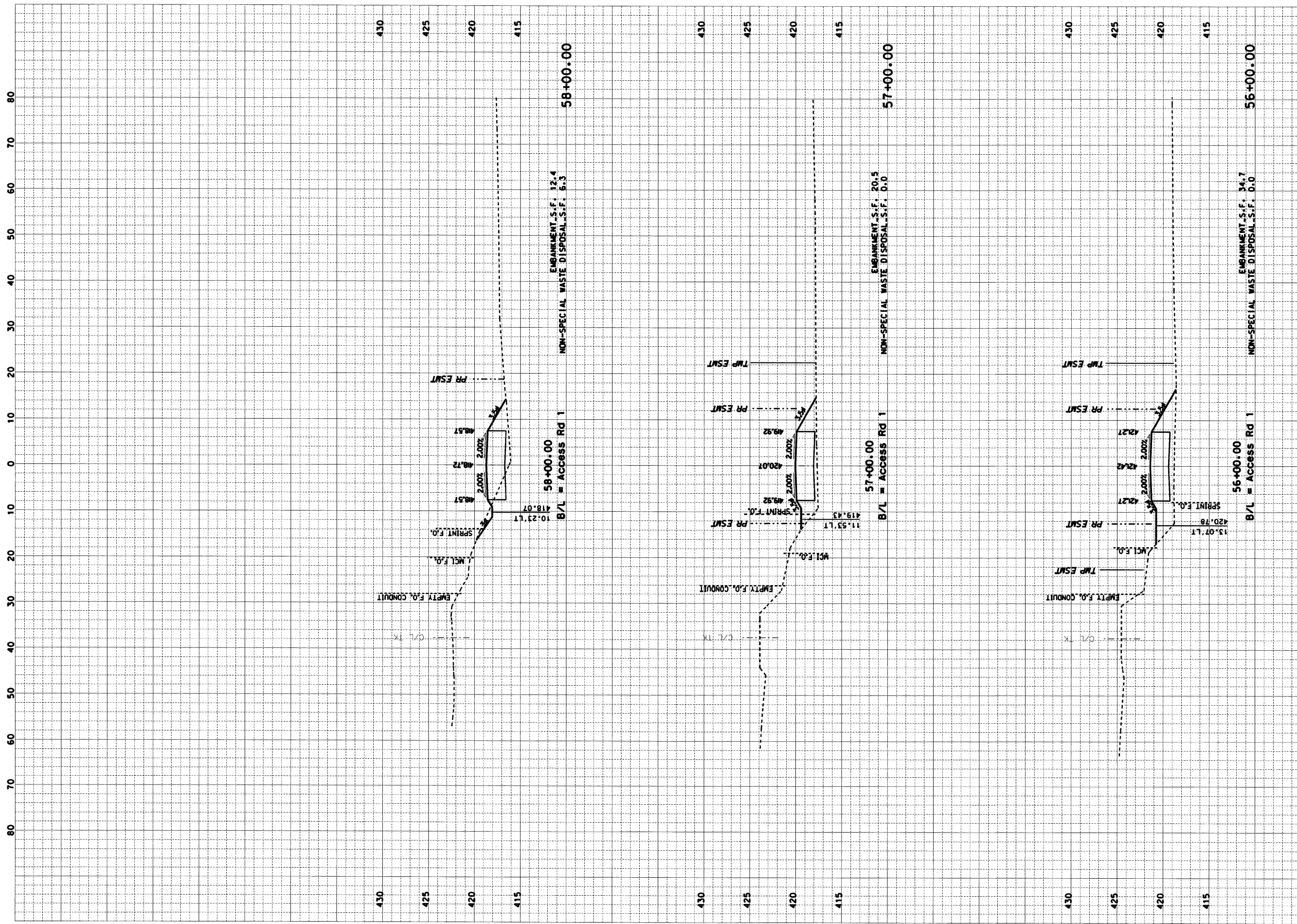
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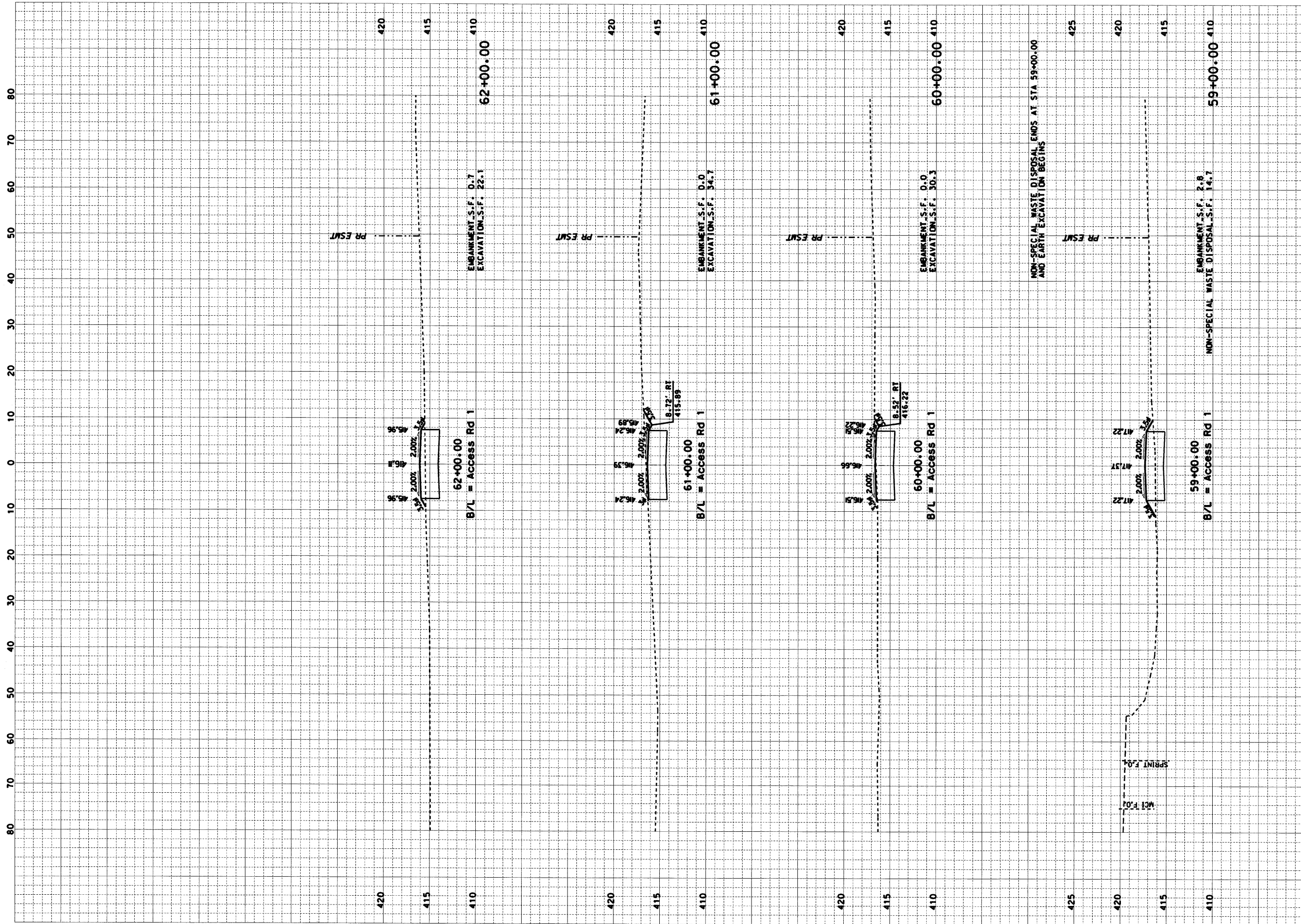


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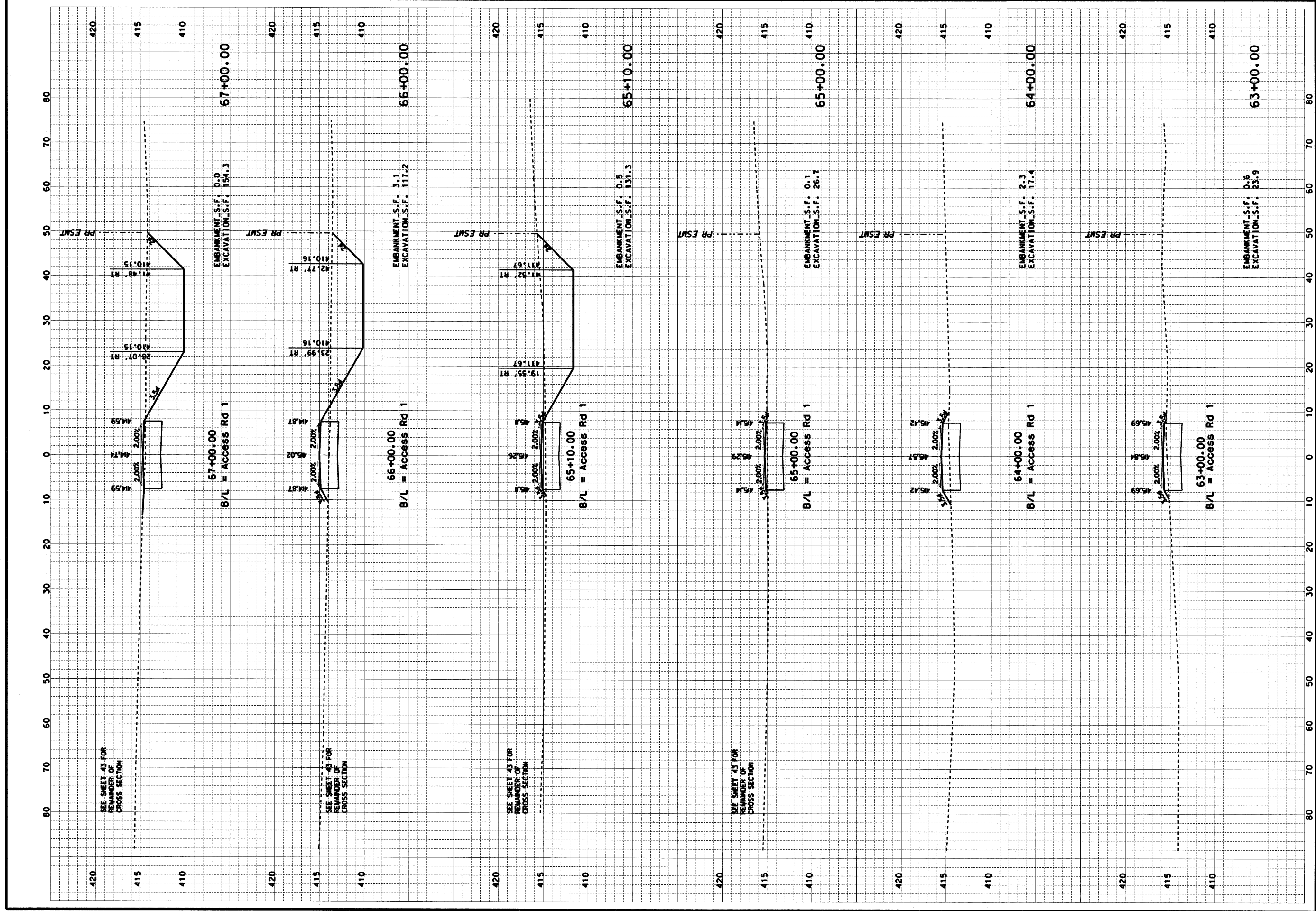


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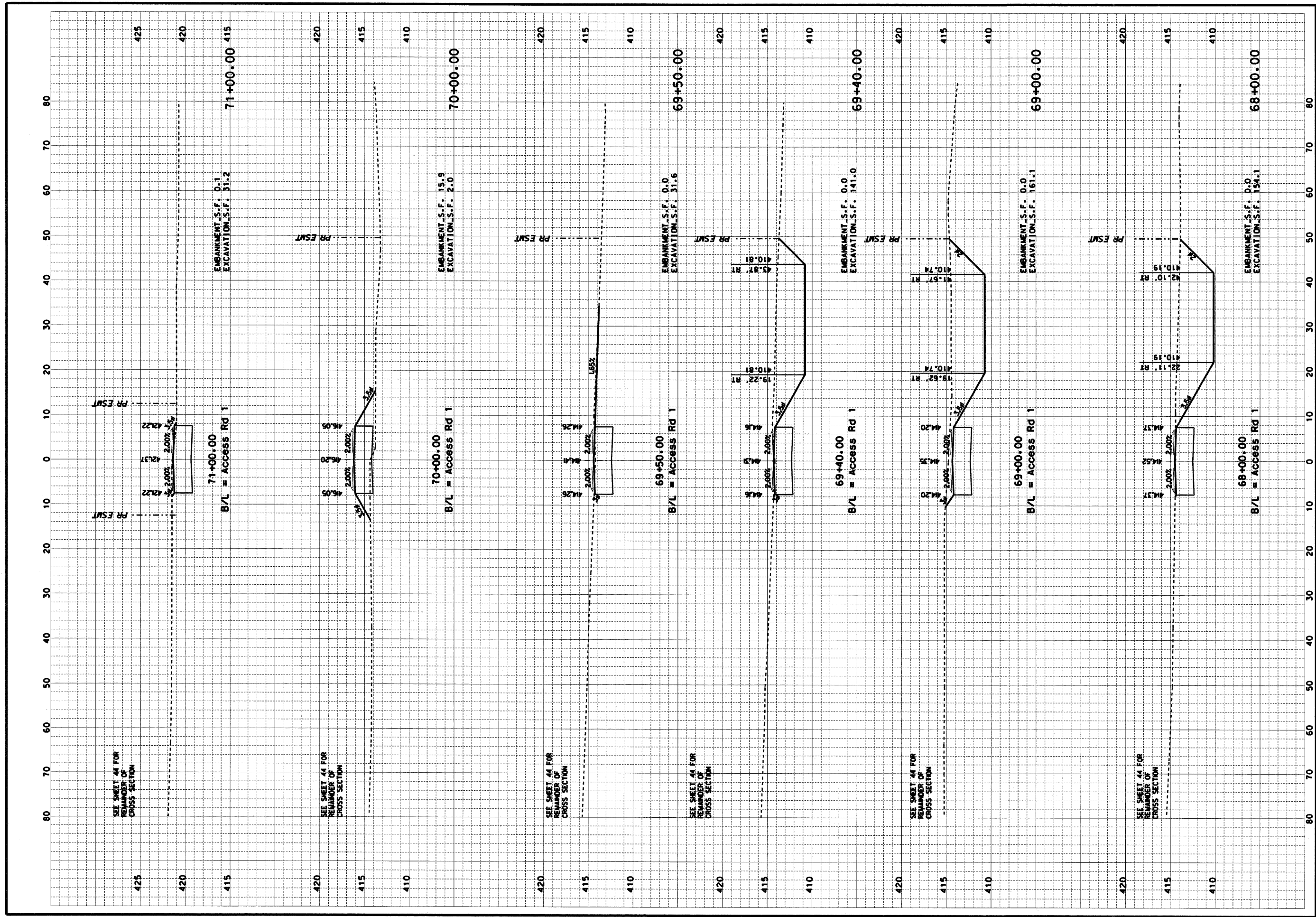


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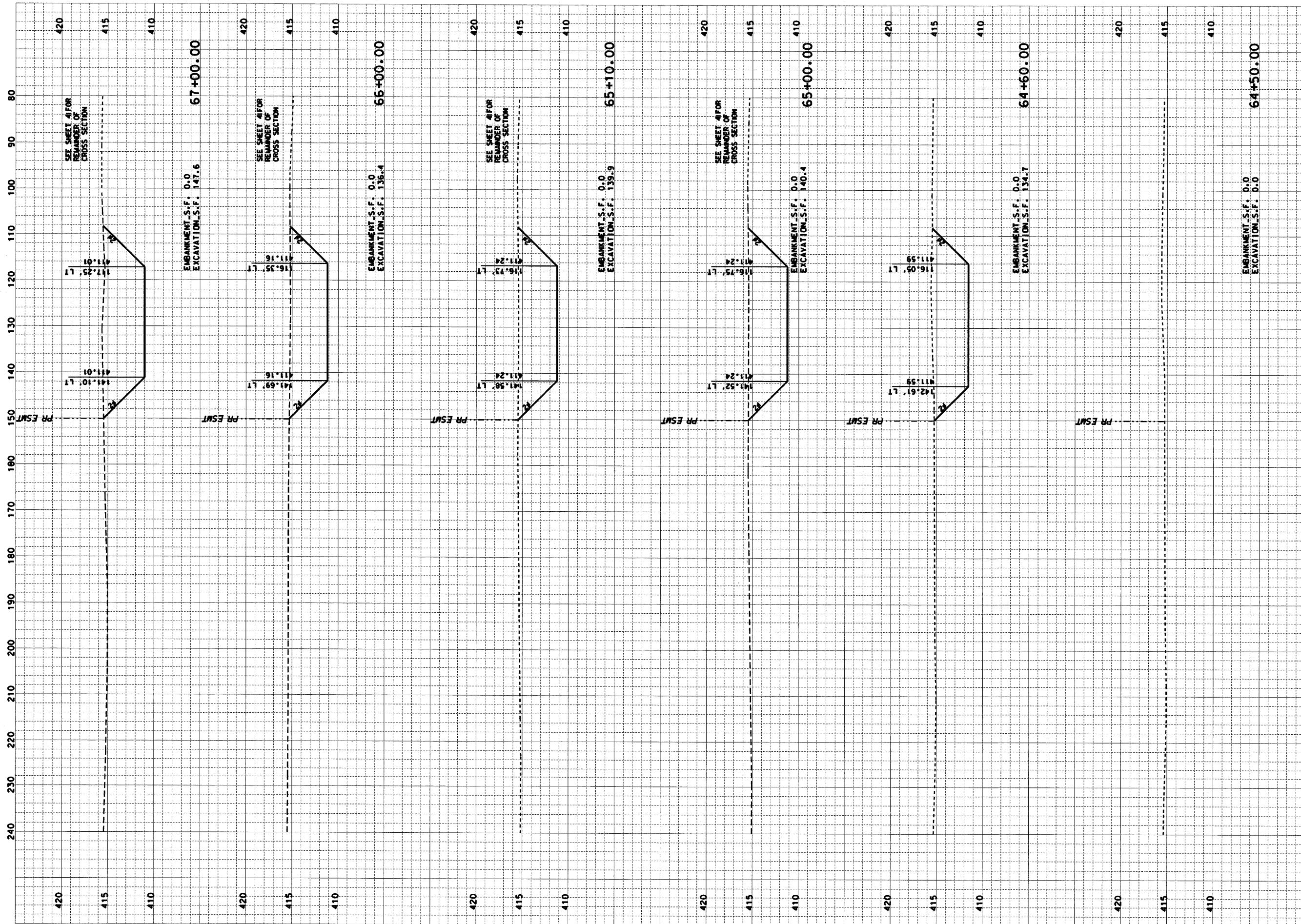


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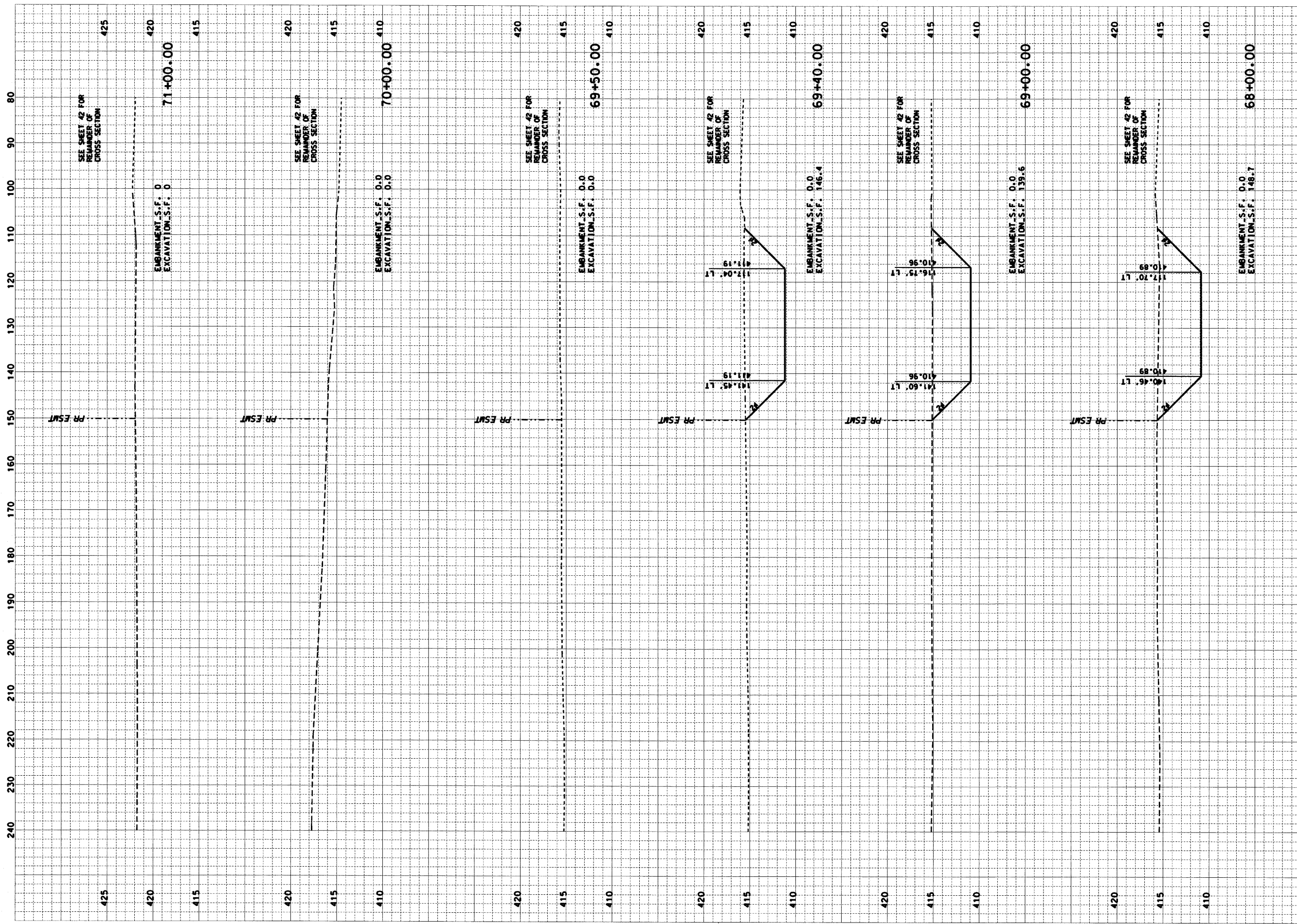
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 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE  
 ACCESS ROAD 1

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 MISSOURI HIGHWAYS  
 AND TRANSPORTATION COMMISSION

**CMT**  
 CRAWFORD, MURPHY & TILLY, INC.  
 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631

**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
 TELEPHONE (816) 472-1201  
 CERTIFICATE OF AUTHORITY  
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CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jay Rakers	
PLOT SCALE = 10.0000' / IN.	
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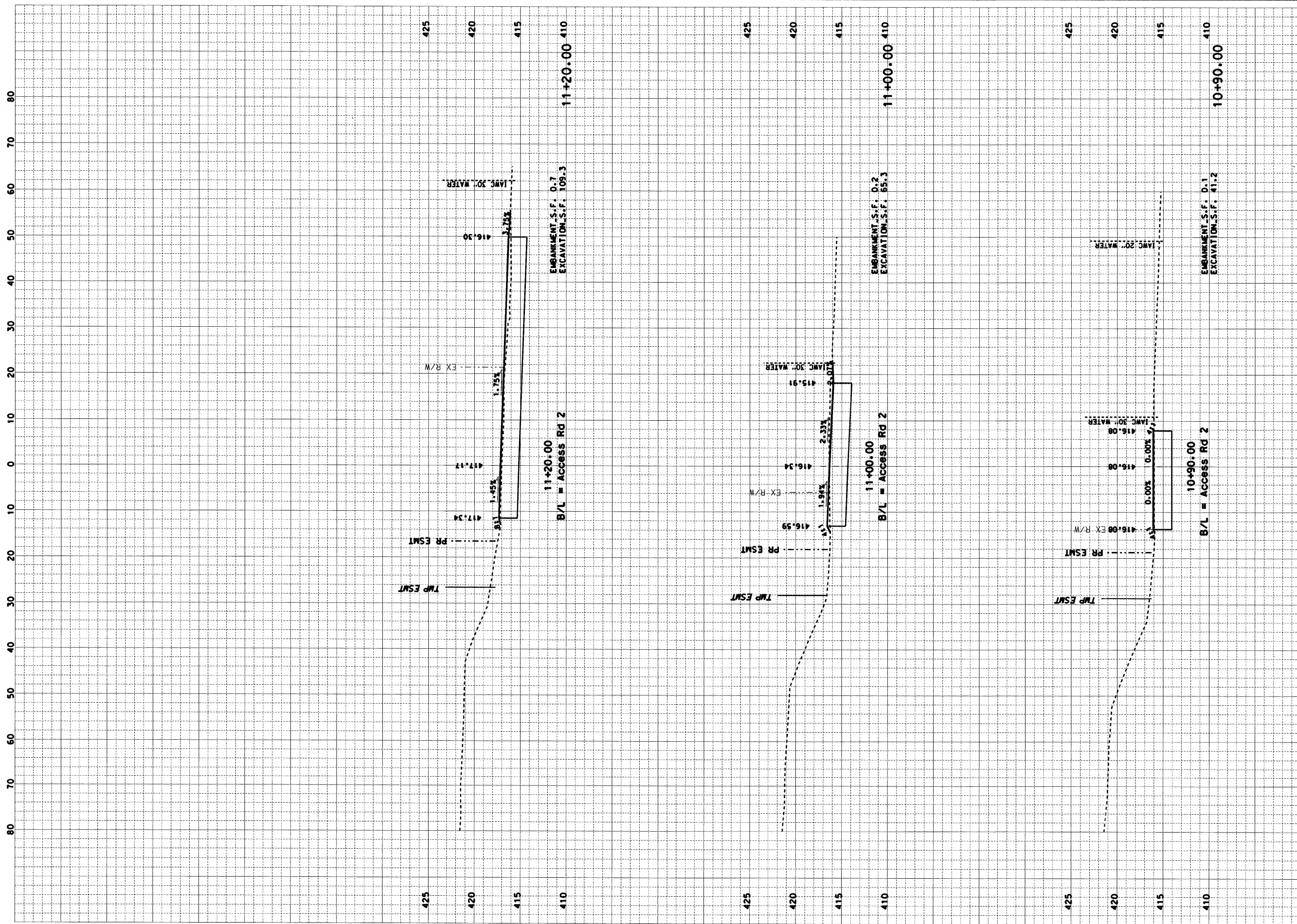
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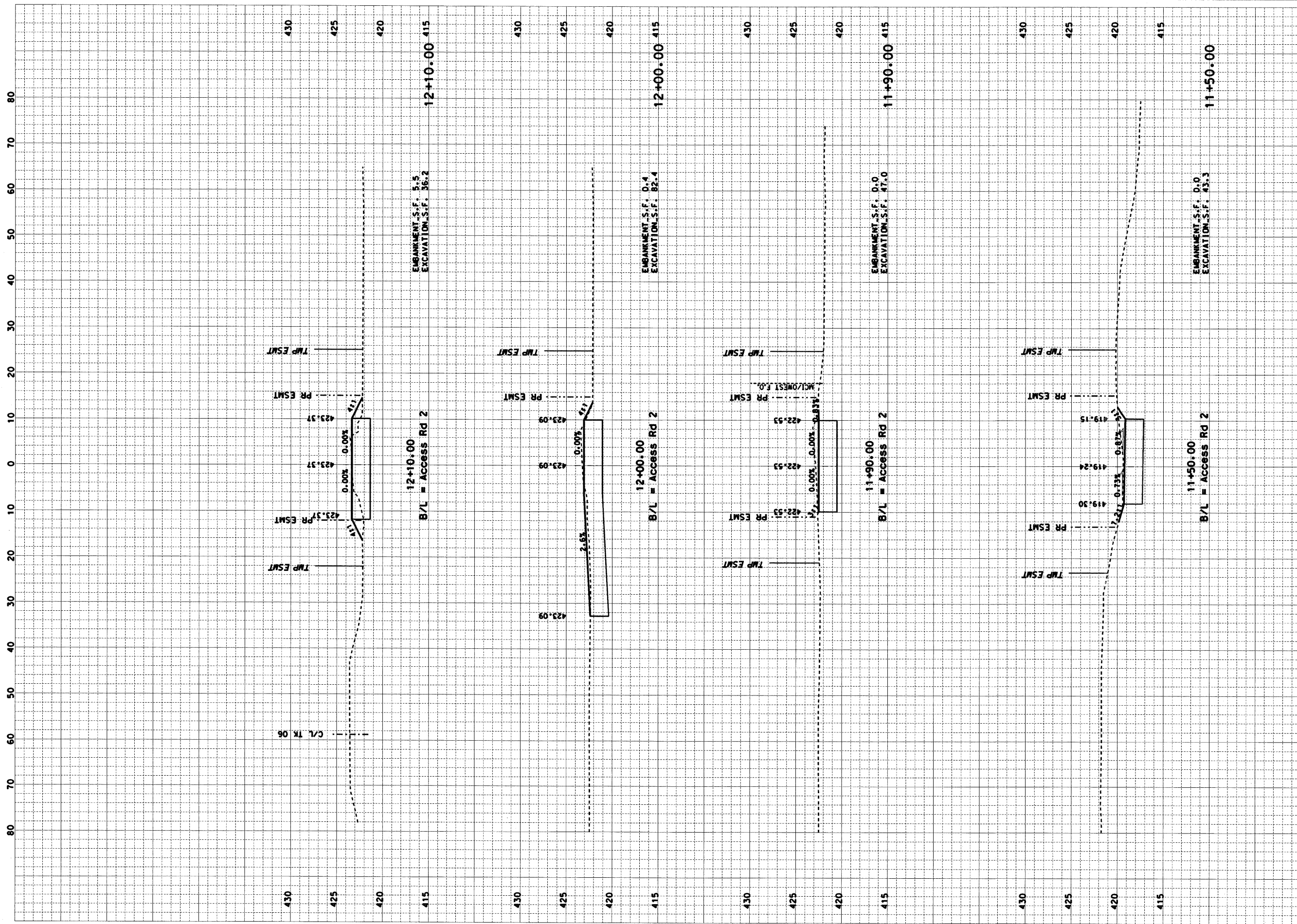
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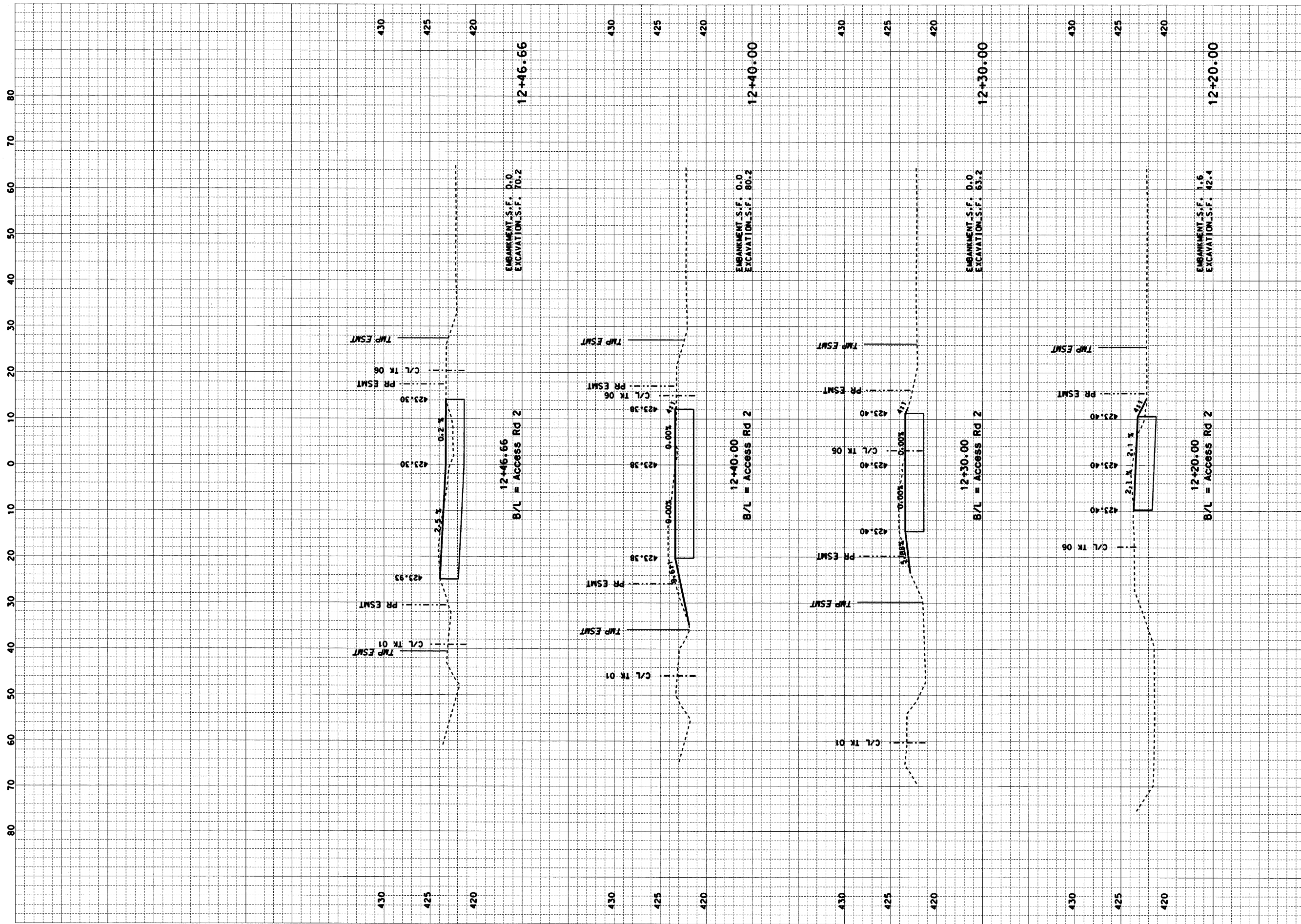
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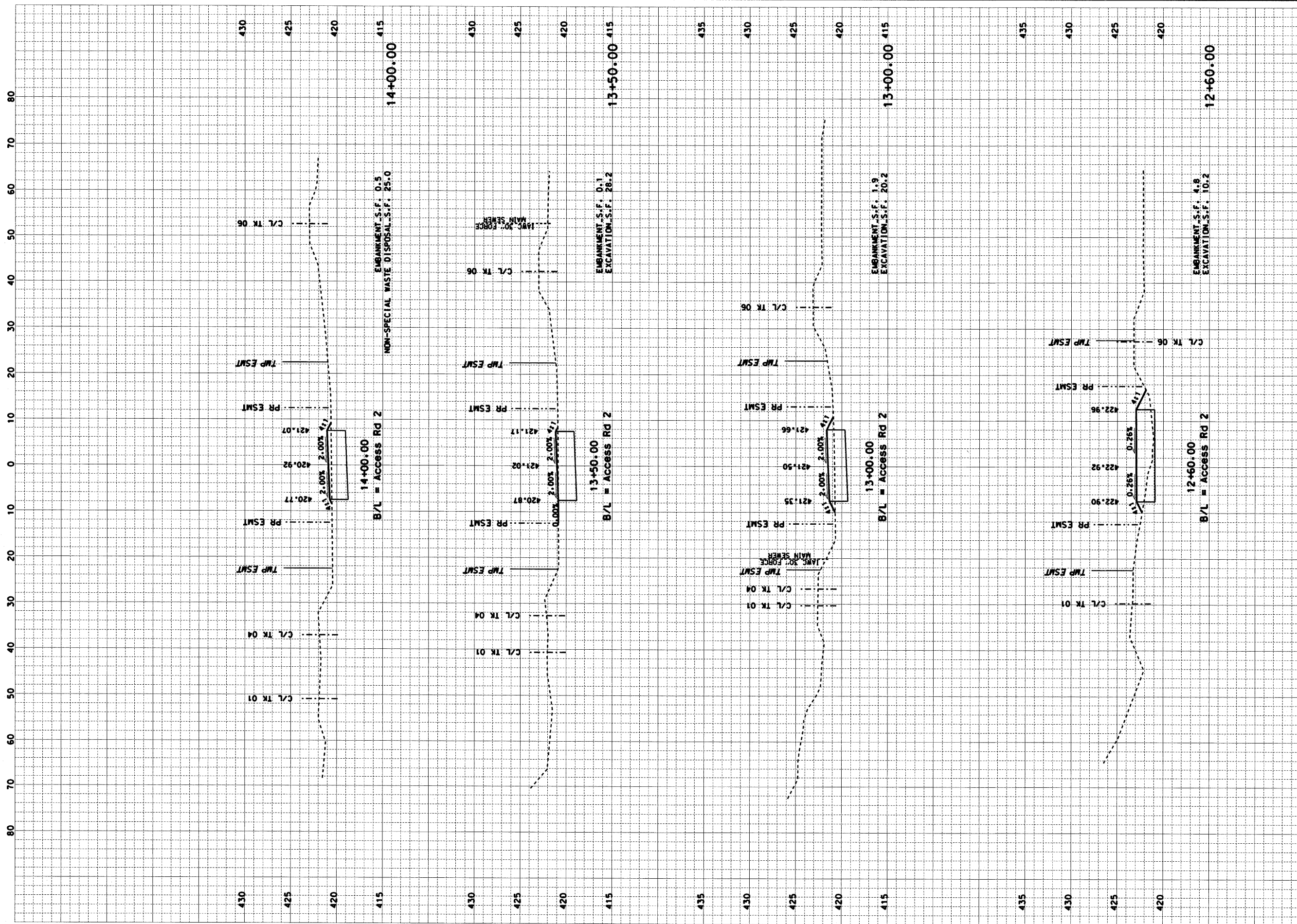
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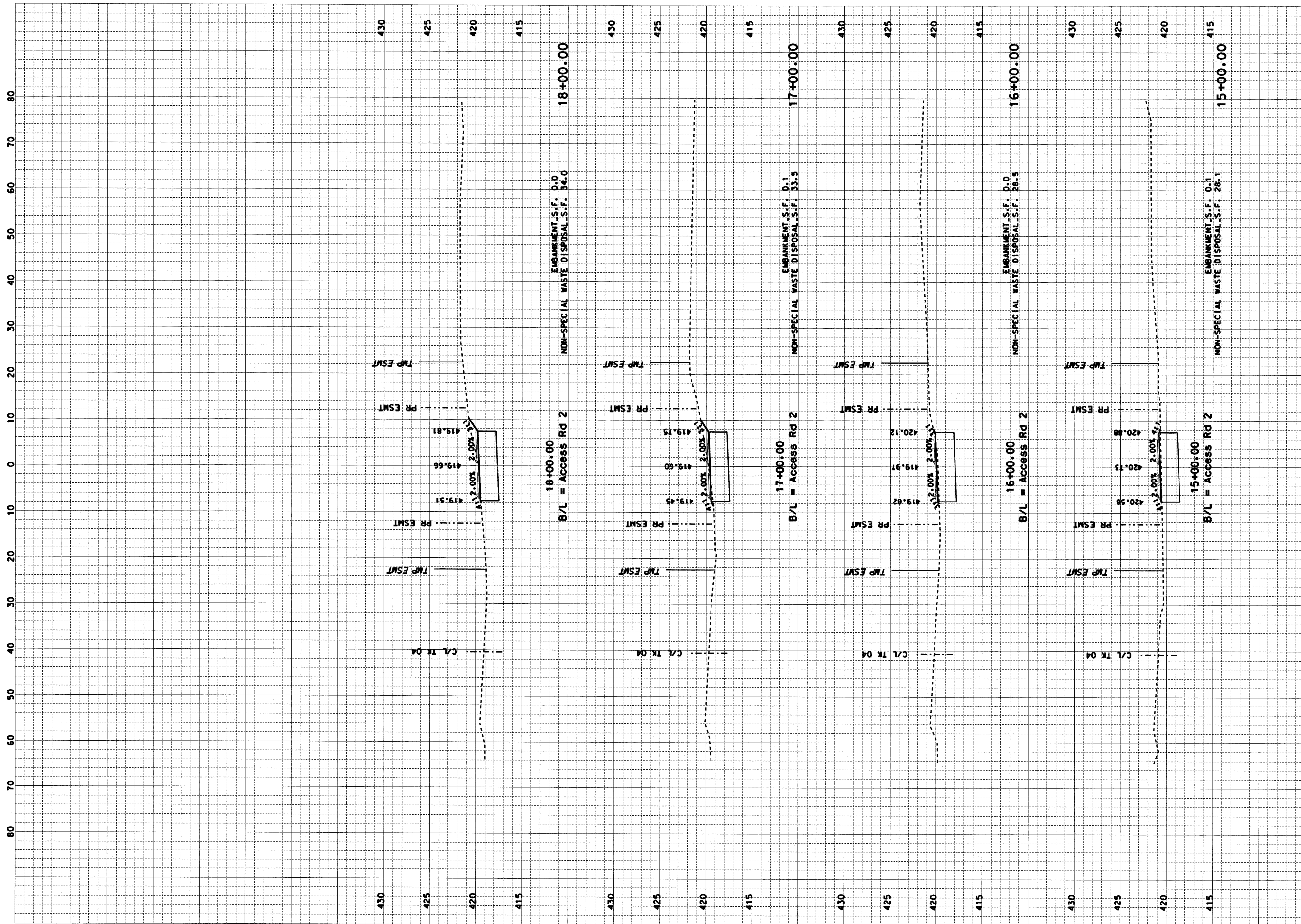
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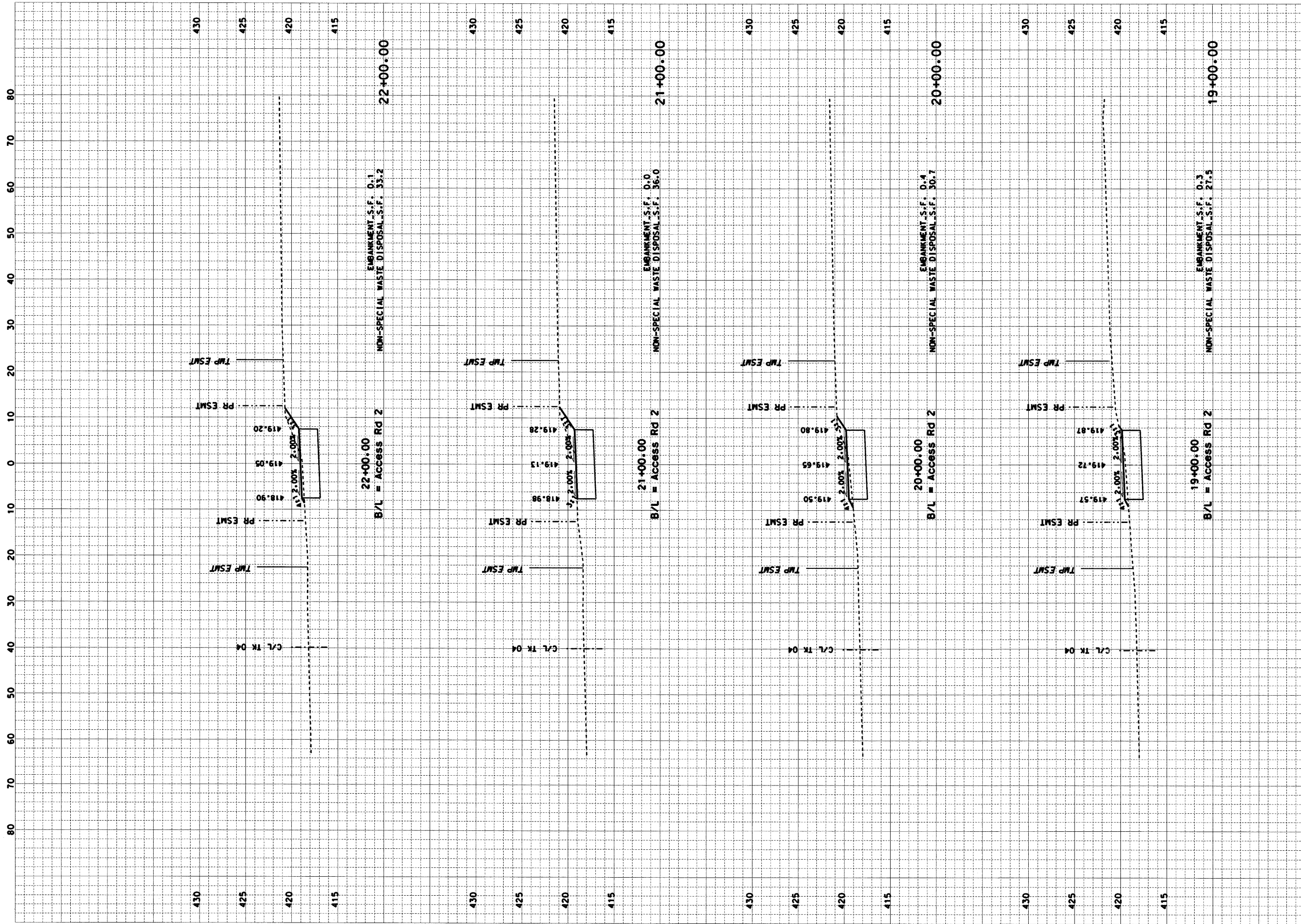
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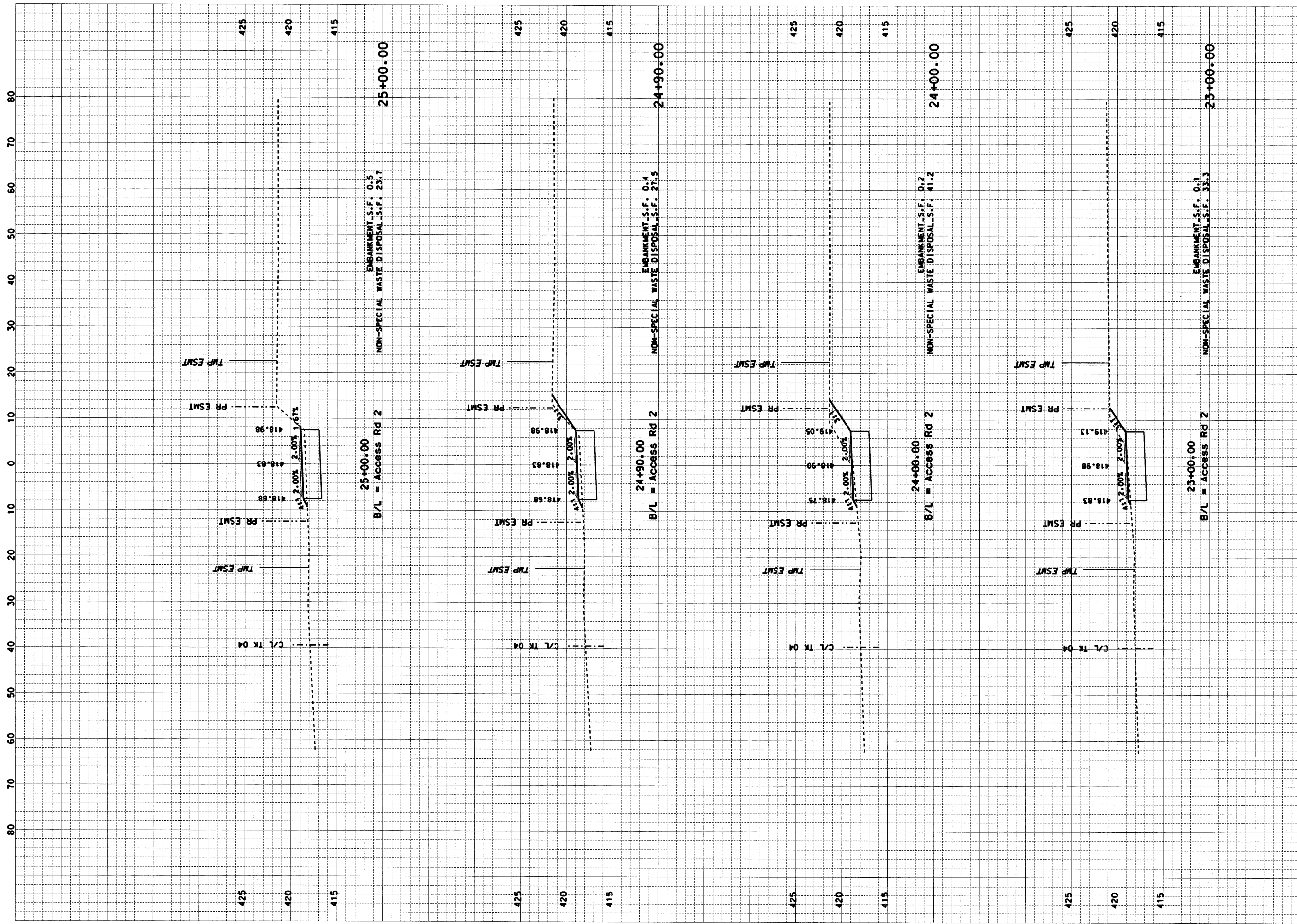
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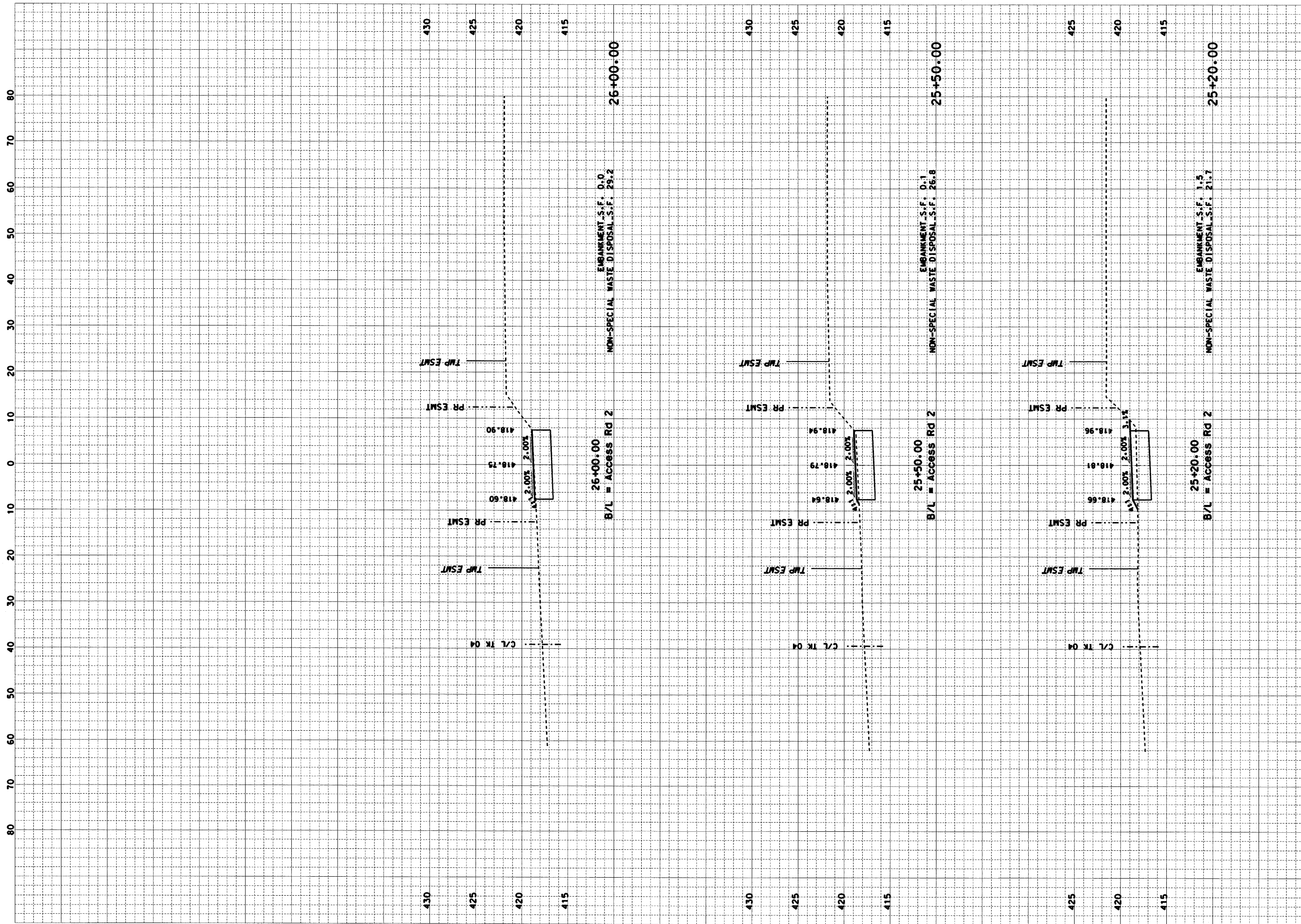
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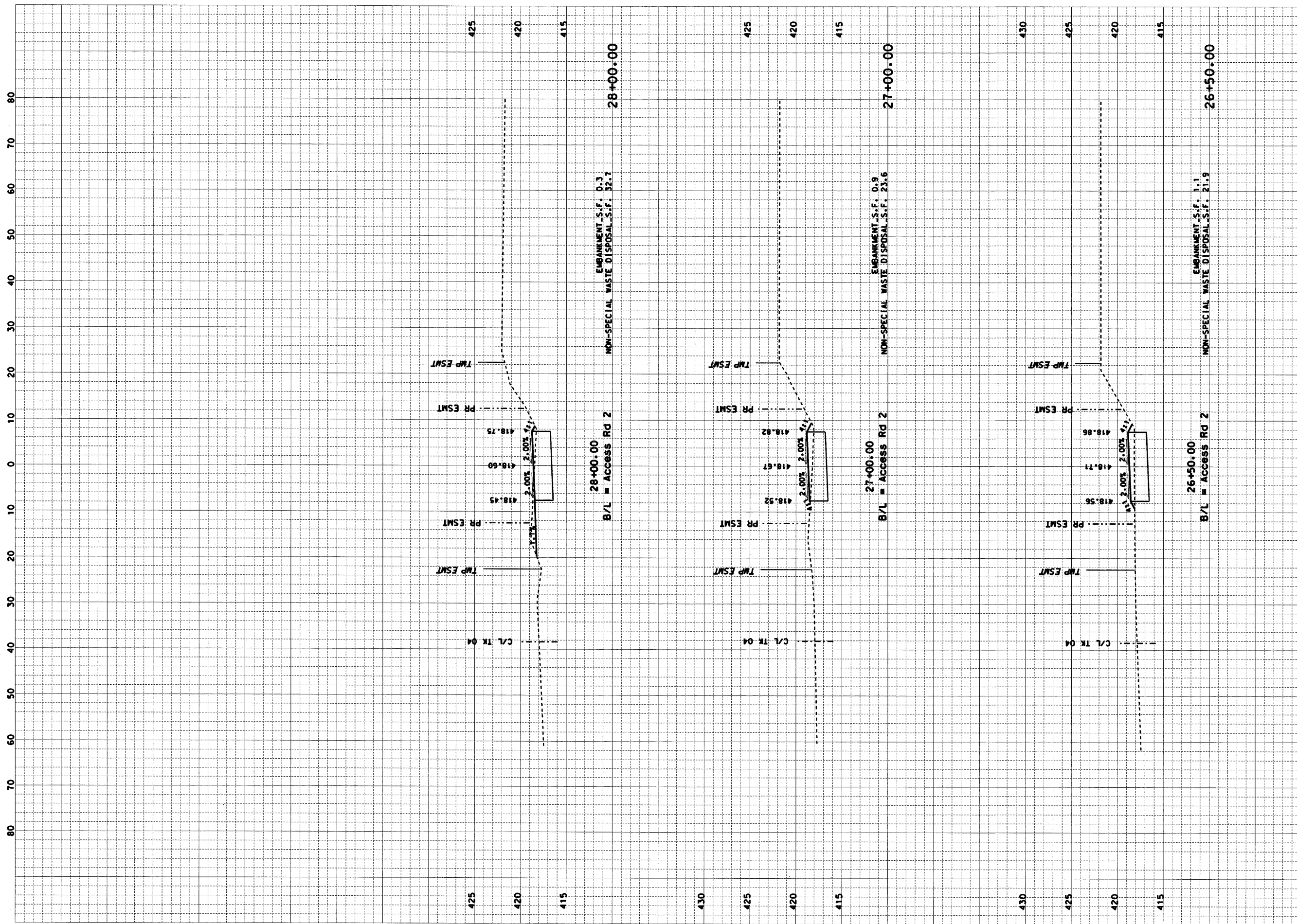
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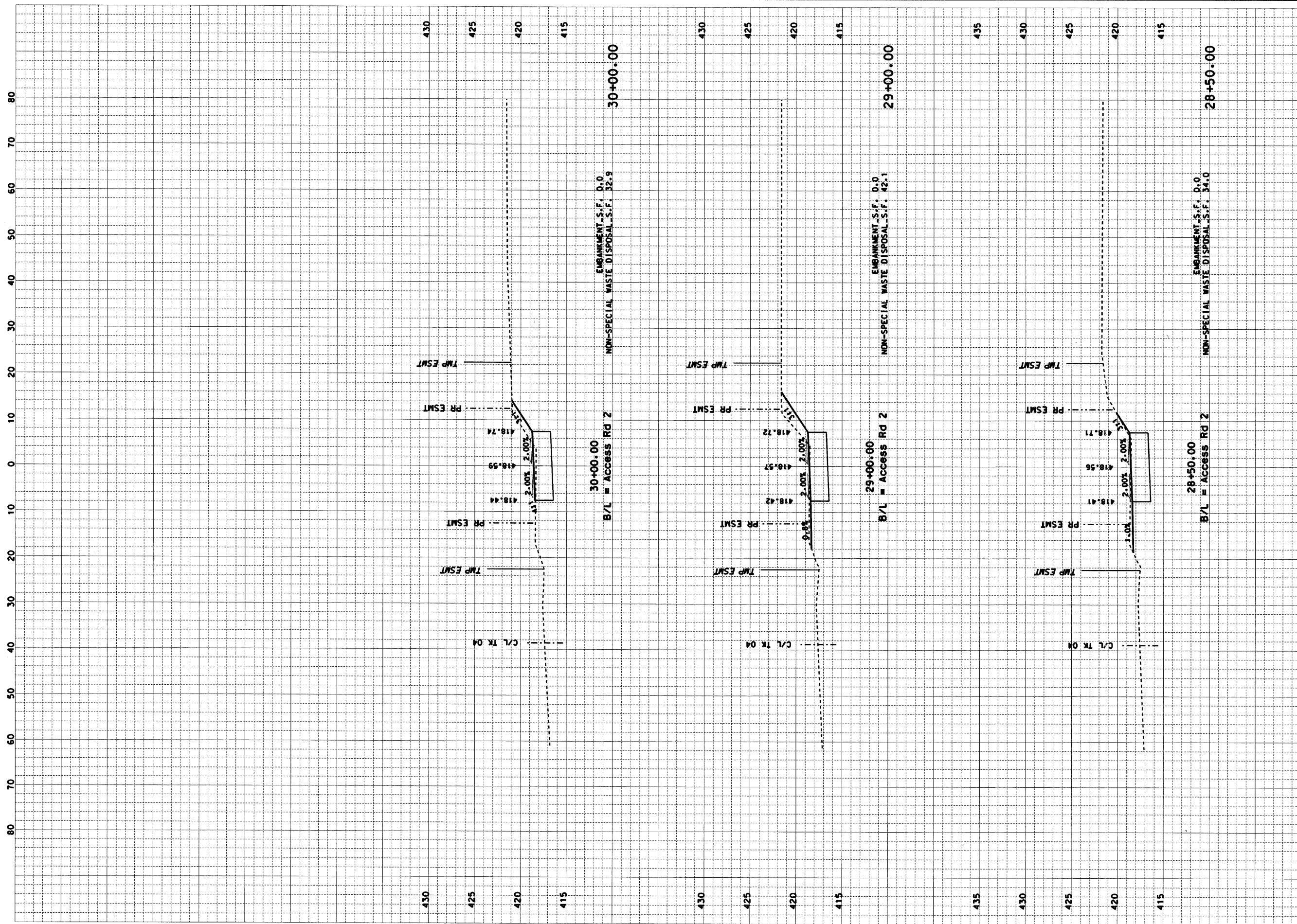
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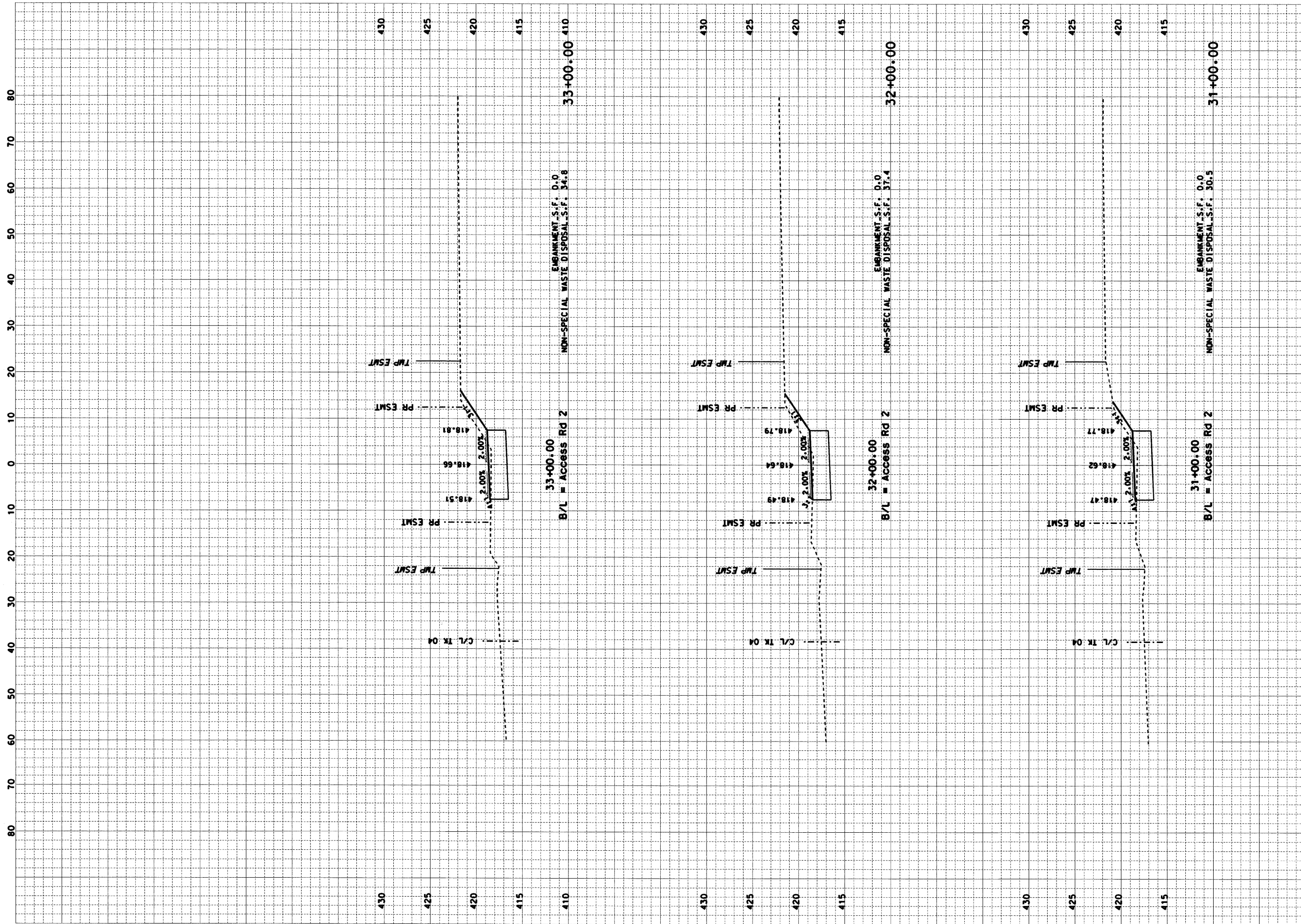
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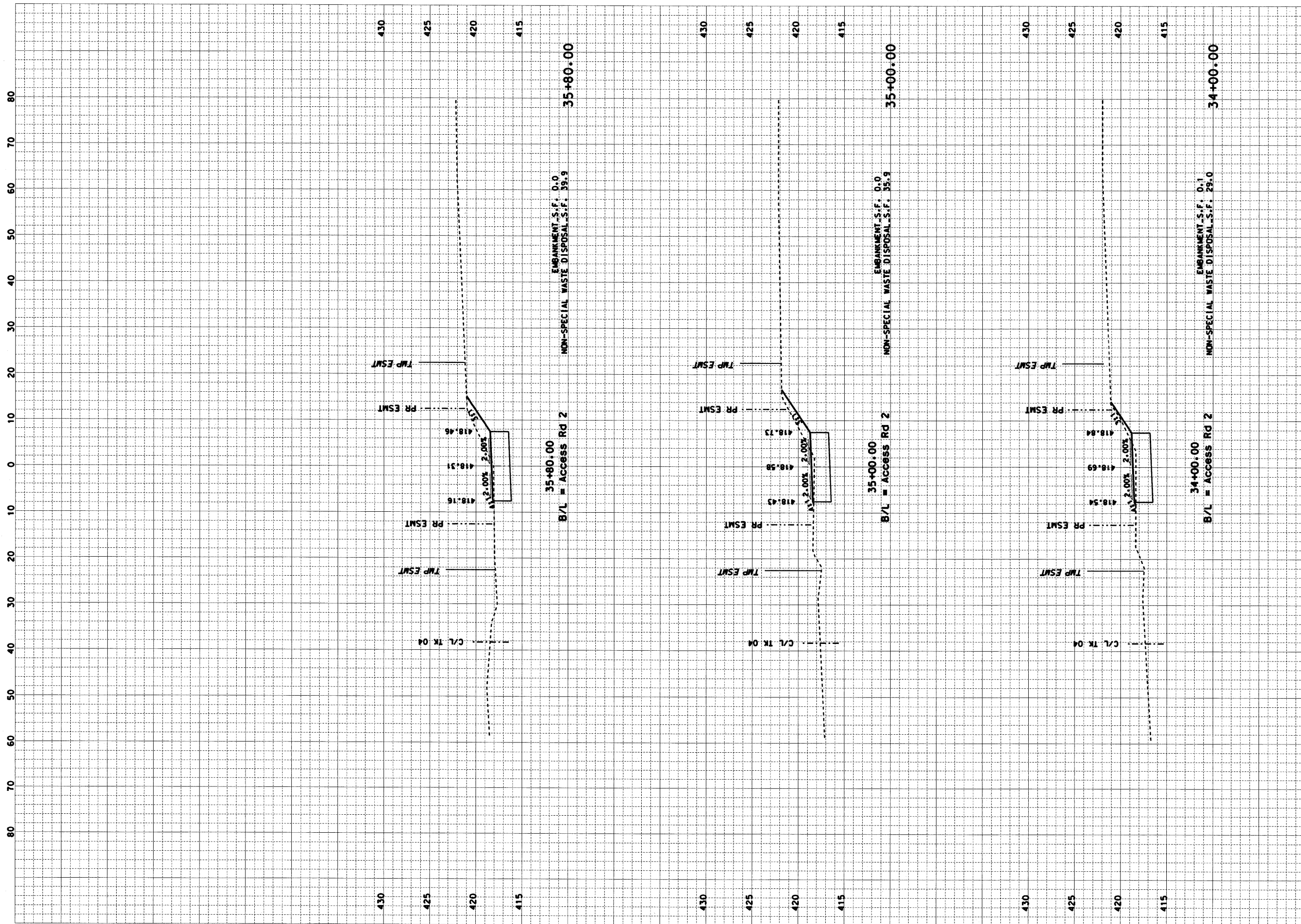
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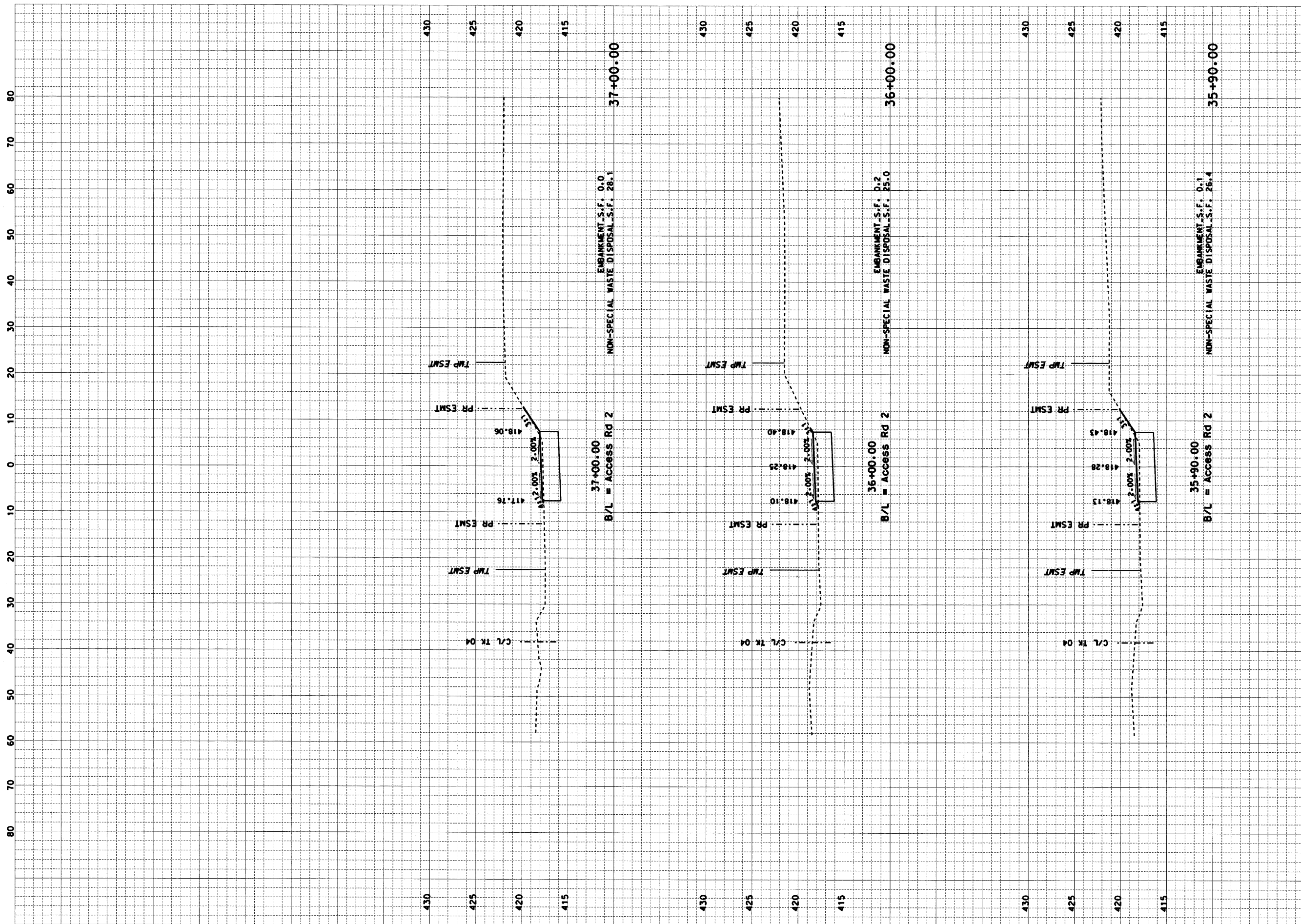
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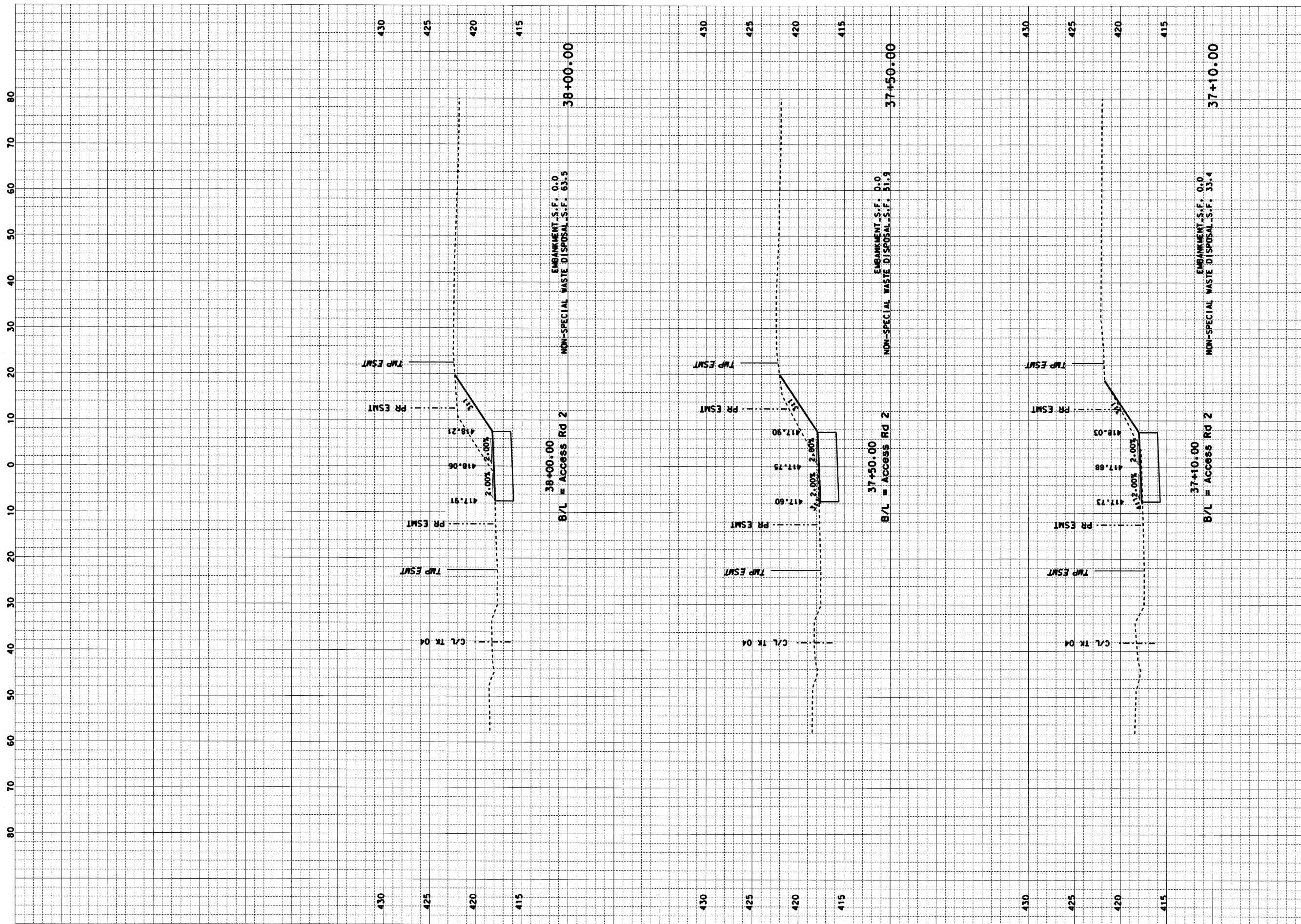
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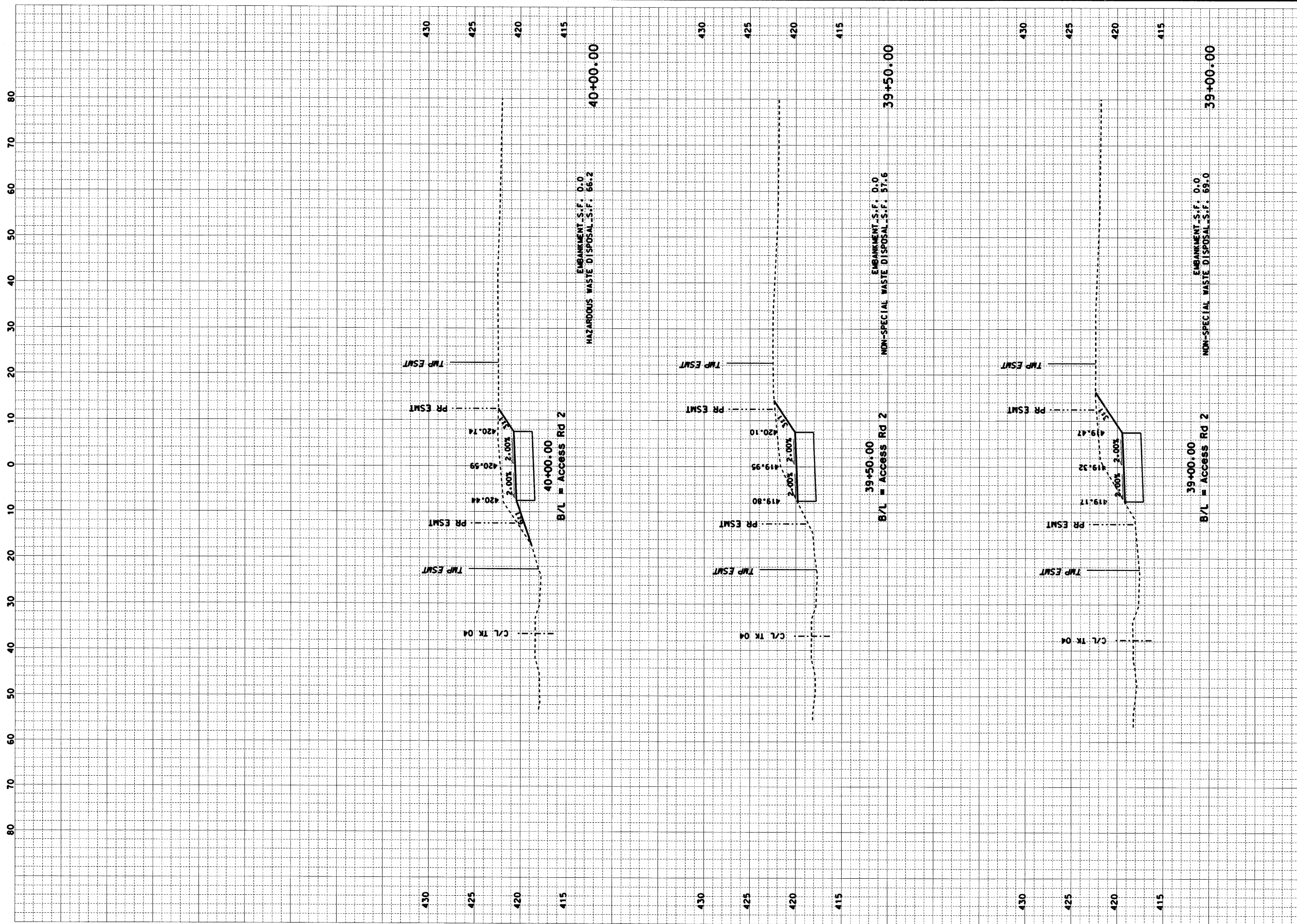
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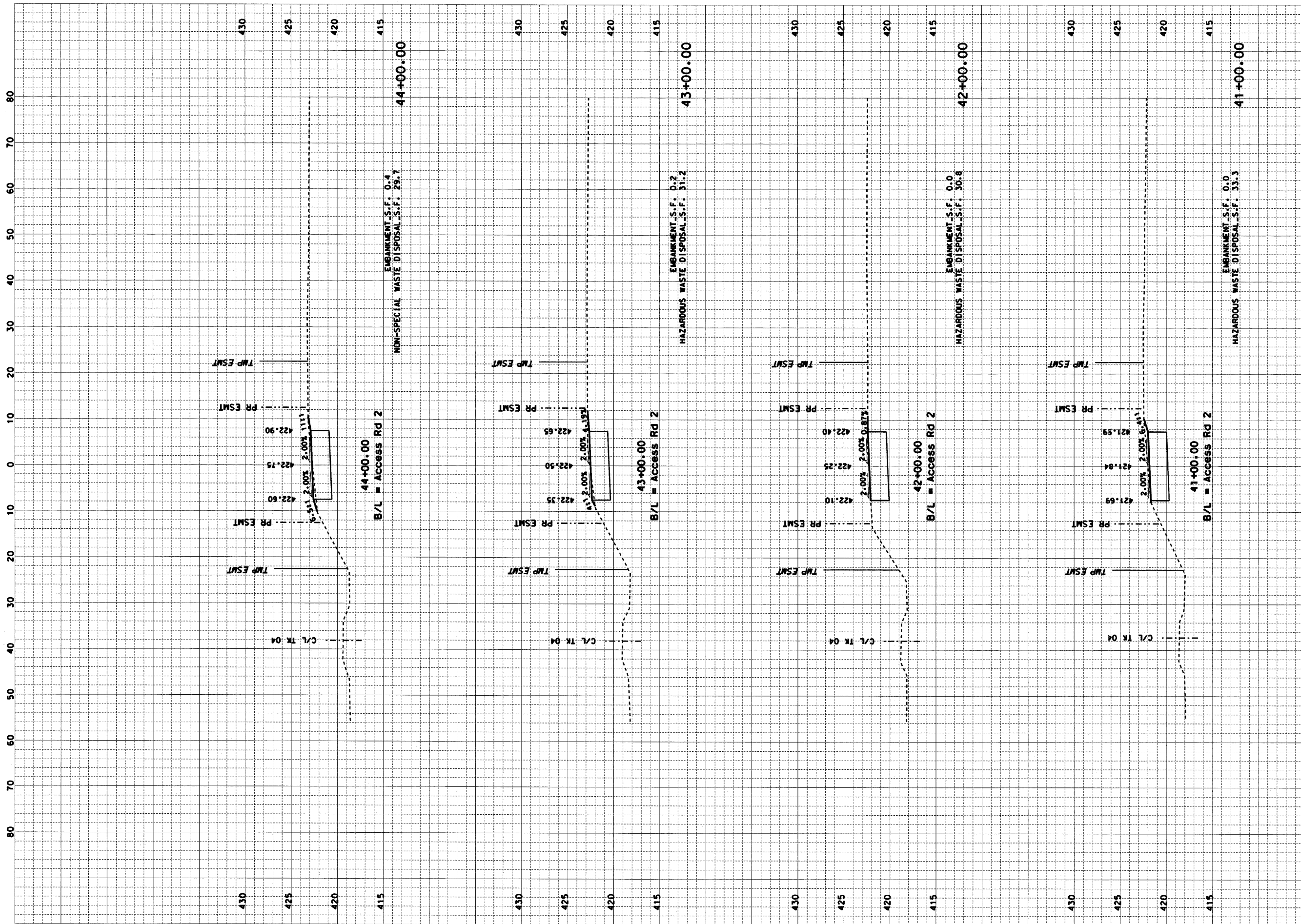
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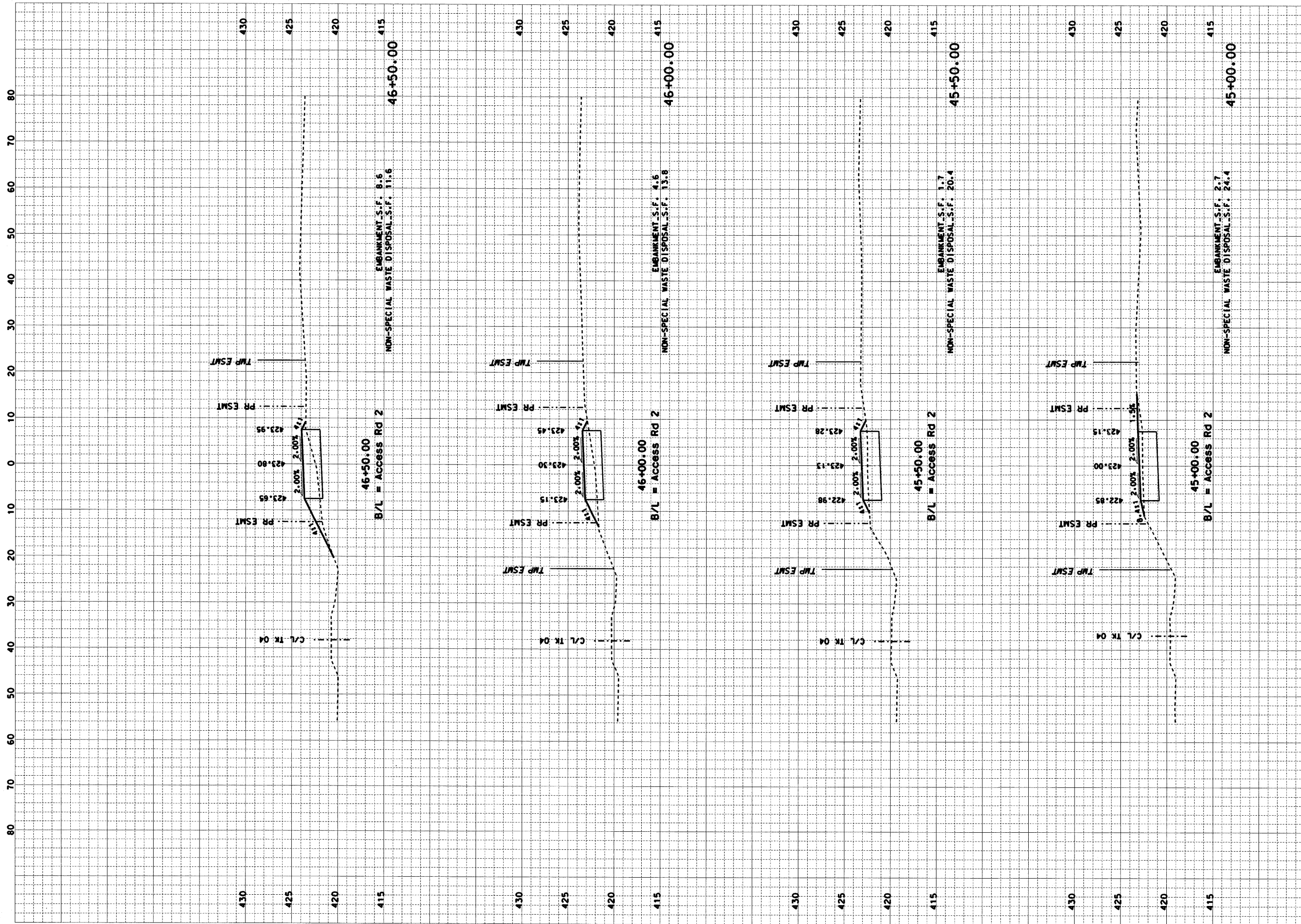
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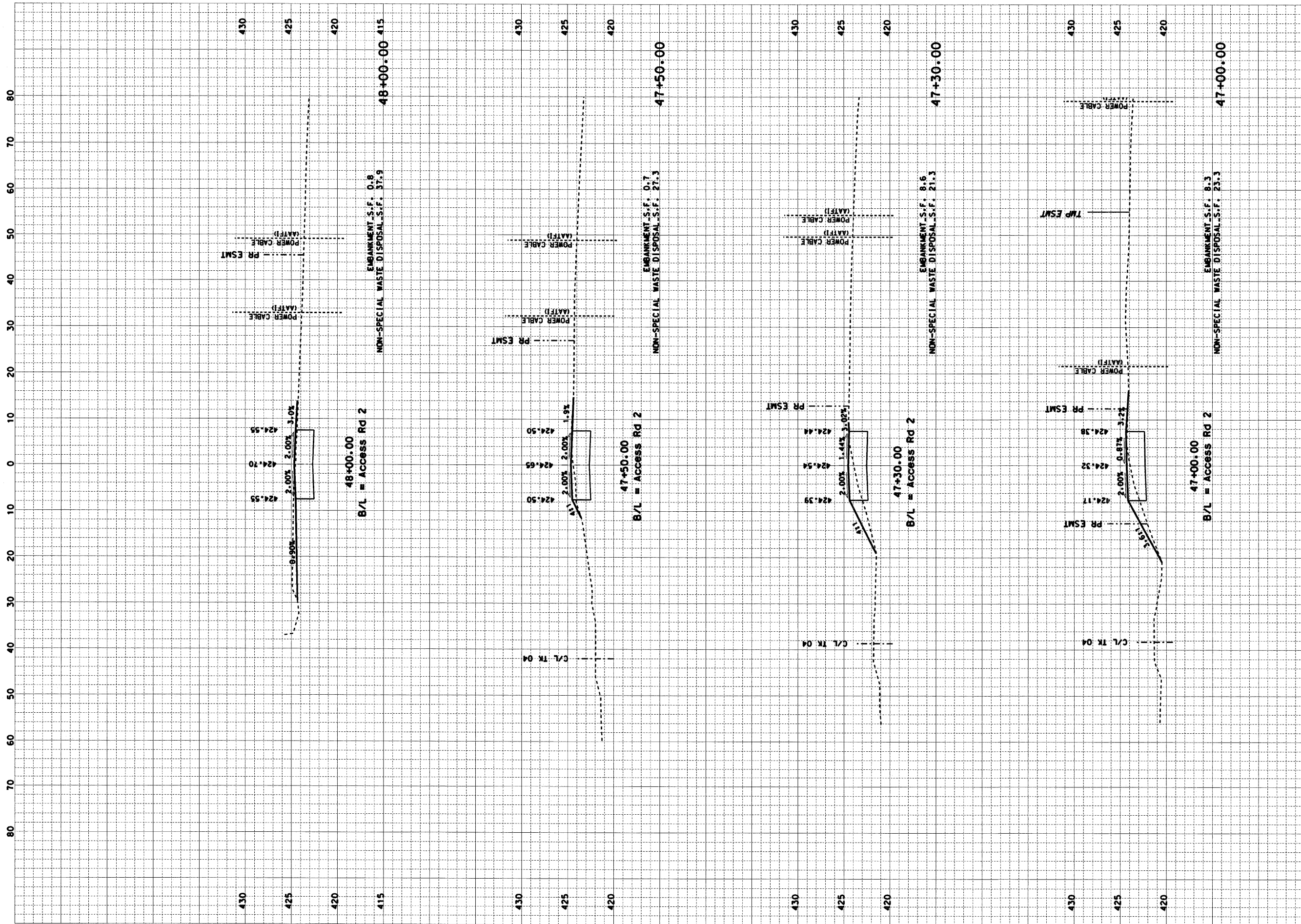
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**HNTB**  
715 K IRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631





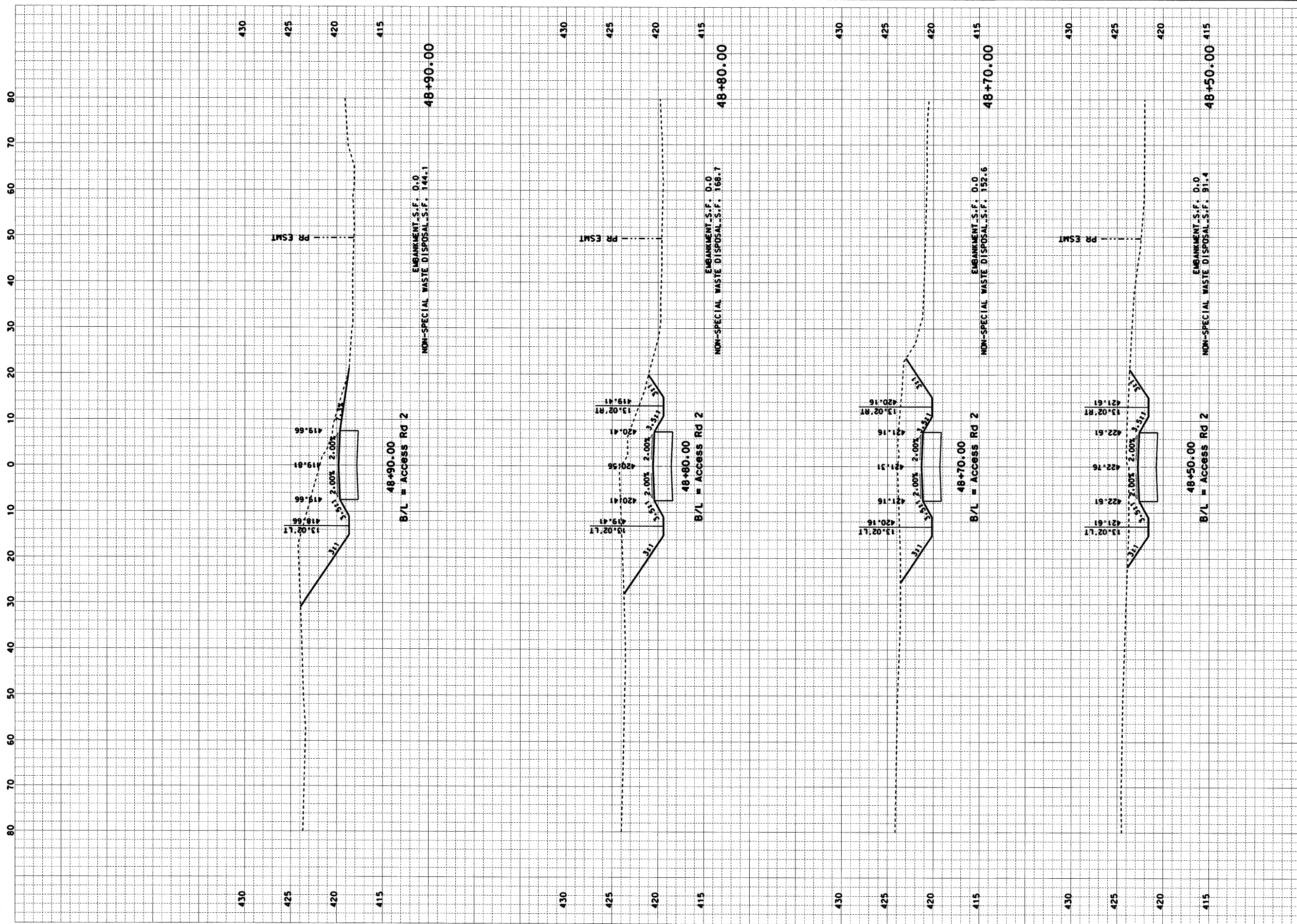
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F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT ILLINOIS	
COUNTY	ST. CLAIR
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PLOT SCALE = 10,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED	- HNTB
CHECKED	- CMT
DRAWN	- CMT / HNTB
REVISED	-
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REVISED	-
REVISED	-

CROSS SECTIONS	
ILLINOIS APPROACH STRUCTURE	
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
ACCESS ROAD 2	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
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ACCESS ROAD 2

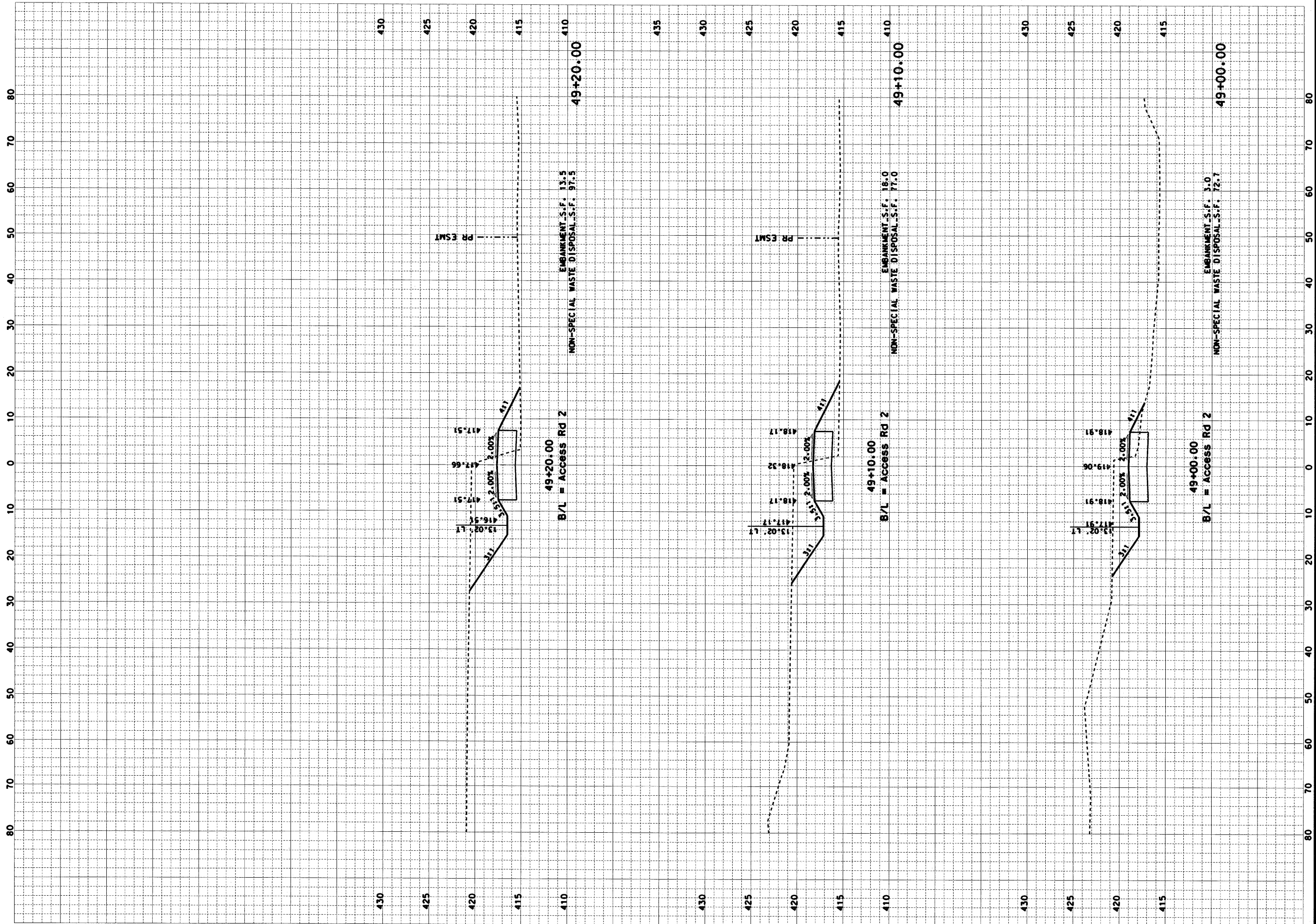
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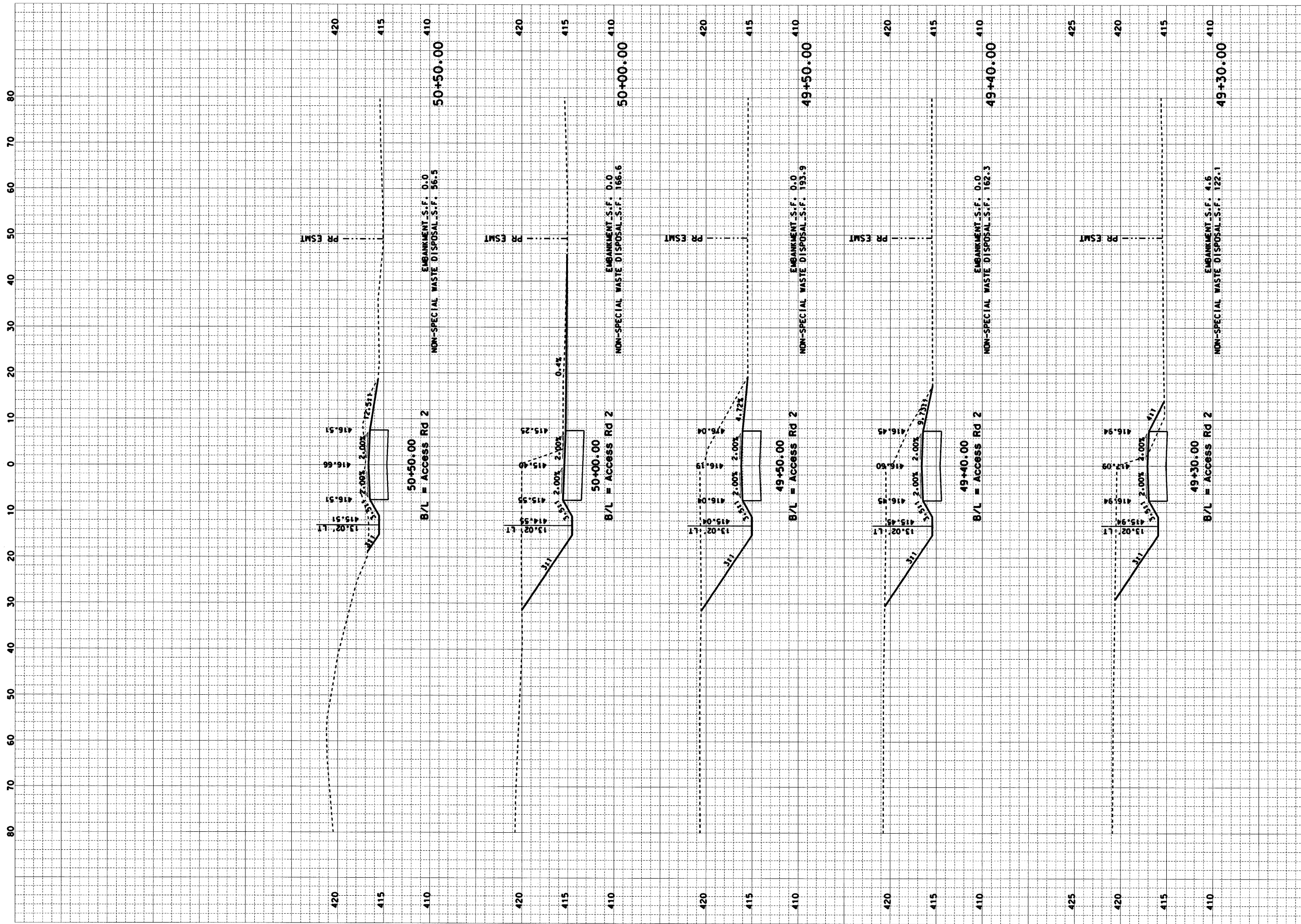
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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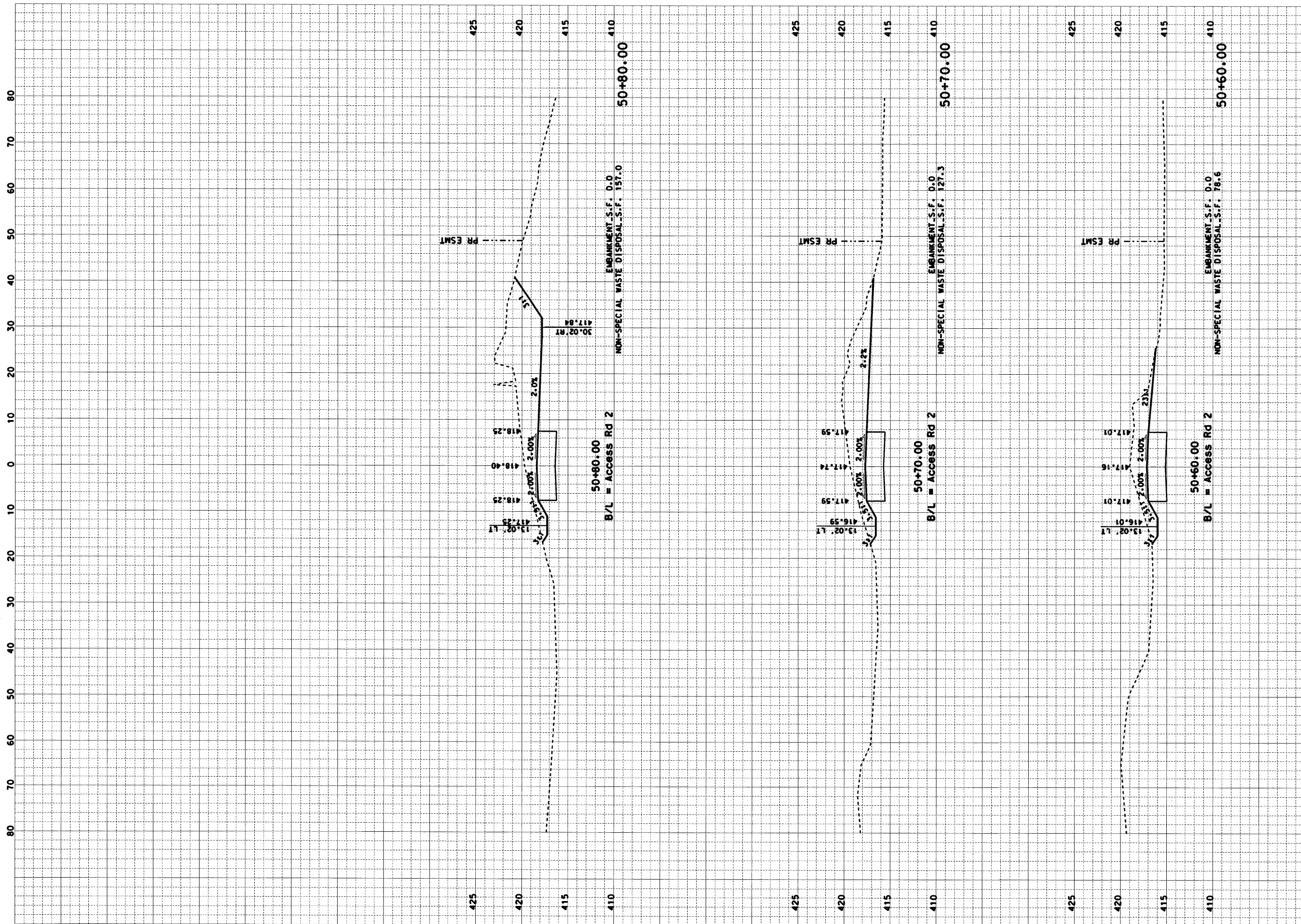
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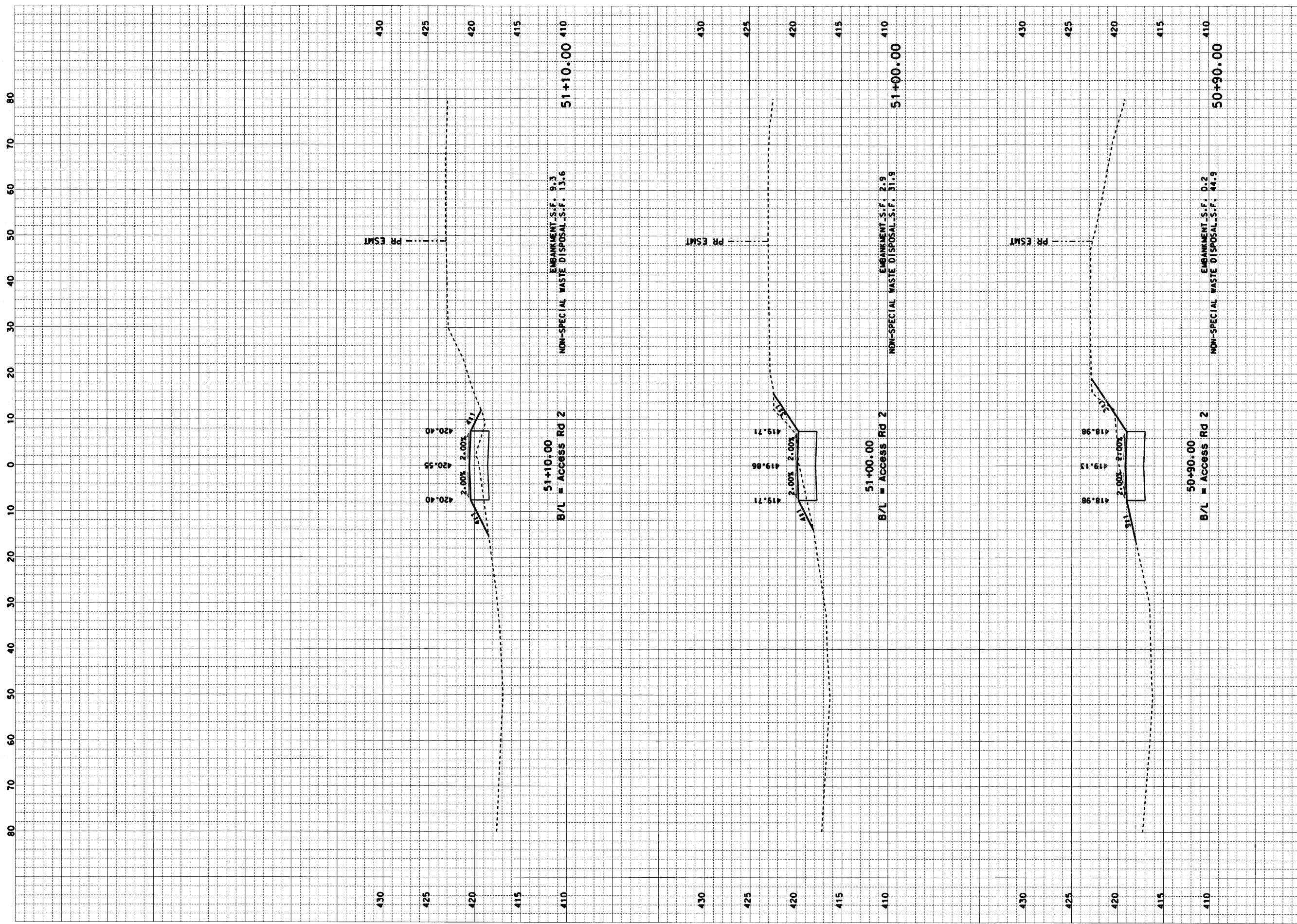


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