

SOIL BORING LOG

Page 1 of 2

Date 4/25/13

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-224, Ramp G6 LOGGED BY E. Slusser

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION SW 1/4 SEC. 5 TWP. 40N RNG. 11E PM. 3"

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0551
 Station 623+18.80 to 640+23.03
 BORING NO. **R-224-RWB-40**
 Station 627+97.98
 Offset 20.2 ft LT.
 Northing 1,936,819.18
 Easting 1,070,197.97
 Ground Surface Elev. 704.6 ft

DEPTH (ft)	SOIL DESCRIPTION	Blows (6")	UCS (tsf)	MOIST (%)	DEPTH (ft)	SOIL DESCRIPTION	Blows (6")	UCS (tsf)	MOIST (%)
704.3	TOPSOIL					Stiff to Very Stiff, Gray CLAY			
703.6	RECYCLED ASPHALT PAVEMENT with Sand and Gravel	4				trace - gravel (continued)	4		
	FILL	4	2.6	26			6	3.3	17
702.1	Very Stiff, Brown, Gray and Black CLAY	5	B				9	B	
	trace - organics, roots								
	FILL								
	Stiff, Brown and Gray SILTY CLAY	2					4		
	trace - gravel, roots	3	1.3	21			6	2.6	18
		4	B				8	B	
699.1	Medium Dense, Gray and Brown SILT								
		3					5		22
		5					7		
696.6	Stiff to Very Stiff, Gray CLAY					Medium Dense, Gray SANDY LOAM			
	trace - gravel	3				trace - gravel	7		
		5	1.7	17			11		13
		7	B				15		
		3				Very Stiff, Gray CLAY			
		7	3.1	17		trace - gravel	6		
		8	B				10	2.5	17
							12	B	
		3							
		5	2.3	18			6		
		7	B				8	3.8	18
							11	B	
		3				Medium Dense, Gray Fine to Coarse SAND			
		5	3.3	18		trace - gravel	10		
		7	B				11		22
							12		
		3							
		5	2.1	17			11		
		6	B				14		22
							12		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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 Ground Surface Elev. 704.6 ft

DEPTH (ft)	SOIL DESCRIPTION	Blows (6")	UCS (tsf)	MOIST (%)
	Medium Dense, Gray Fine to Coarse SAND			
	trace - gravel (continued)	4		
		6		21
		7		
		4		
		9		21
659.6		12		
	END OF BORING			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 4/26/13

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-224, Ramp G6 LOGGED BY E. Slusser

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION SW 1/4 SEC. 5 TWP. 40N RNG. 11E PM. 3'

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0551
 Station 623+18.80 to 640+23.03
 BORING NO. R-224-RWB-41
 Station 628+48.40
 Offset 21.1 ft LT.
 Northing 1,936,814.47
 Easting 1,070,247.92
 Ground Surface Elev. 704.1 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
703.6				TOPSOIL	683.6			
703.1	3			RECYCLED ASPHALT PAVEMENT AND CRUSHED STONE FILL		4		
	4	3.5	25	Very Stiff, Brown and Gray SILTY CLAY		6		18
	5	P		trace - gravel		8		
701.1				Loose, Brown and Gray SANDY LOAM				
	2			little - gravel		6		
	4		17			8		20
	4					9		
698.6				Hard, Gray CLAY	679.1			
	3			trace - gravel, roots		4		
	4	4.1	15			8	5.0	18
	8	B				13	B	
695.6				Gray below 8.5 feet		6		
	3					11	4.0	17
	6	4.7	15			14	B	
	7	B				14	B	
693.6				Medium Dense, Gray SANDY LOAM		6		
	3					8	4.0	15
	4		14			10	B	
	7					10	B	
691.1				Medium Dense, Gray Fine to Coarse SAND	671.1			
	5			little - gravel		2		
	6		14			3		22
	8					5		
	8					5		
688.6				Very Stiff to Hard, Gray CLAY				
	4			trace - gravel		4		
	5	4.0	16			8		21
	7	B				11		
	4					3		
	6	3.3	16			3		22
	8	B				4		

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 Station 628+48.40
 Offset 21.1 ft LT.
 Northing 1,936,814.47
 Easting 1,070,247.92
 Ground Surface Elev. 704.1 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
				Surface Water Elev. _____ ft				
				Stream Bed Elev. _____ ft				
				Groundwater Elev.: _____ ft				
				First Encounter 695.1 ft				
				Upon Completion 683.1 ft				
				After 72 Hrs. 701.1 ft				
				Loose to Medium Dense, Gray Fine to Medium SAND				
				trace - gravel (continued)		5		
						7		20
						9		
						5		
						8		18
						9		
659.1				END OF BORING				

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ROUTE Elgin O'Hare (IL 390) SECTION LOCATION SW 1/4 SEC. 5 TWP. 40N RNG. 11E PM. 3"

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0551
 Station 623+18.80 to 640+23.03
 BORING NO. R-224-RWB-42
 Station 628+98.62
 Offset 21.1 ft LT.
 Northing 1,936,809.50
 Easting 1,070,297.63
 Ground Surface Elev. 702.7 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
701.9				TOPSOIL				
	2			Stiff, Brown, Gray and Black SILTY CLAY		3		
	3	2.75	27	trace - brick, gravel, glass		5	2.1	17
	4	P				6	B	
699.7				FILL				
	3			Stiff to Very Stiff, Brown and Gray SILTY CLAY		3		
	4	1.6	18	trace - gravel		6	2.8	18
	4	B				7	B	
696.7				Brown from 6 to 8.5 feet				
	3					3		
	5	2.5	19	2-inch Sand layer at 26.1 feet		4	3.5	15
	8	B				7	P	
694.2				Gray below 8.5 feet				
	4					4		
	8	2.1	15			8	3.2	17
	9	B				10	B	
692.2				Stiff to Very Stiff, Gray CLAY				
	3			trace - gravel		3	2.1	19
	4	2.5	17			8	B	22
	7	B		Medium Dense, Gray Fine to Coarse SAND		10		
				trace to some - gravel				
	3					5		
	4	2.5	17			5		17
	8	B				6		
	4					5		
	5	1.6	19			11		19
	7	B				9		
	2					9		
	5	1.8	17			12		11
	7	B				9		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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STRUCT. NO. 022-0551
 Station 623+18.80 to 640+23.03
 BORING NO. R-224-RWB-42
 Station 628+98.62
 Offset 21.1 ft LT.
 Northing 1,936,809.50
 Easting 1,070,297.63
 Ground Surface Elev. 702.7 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION
662.2				Stiff to Hard, Gray CLAY LOAM
	2			trace - gravel
	4	1.3	16	
	7	B		
	4			
	7	4.0	21	
	13	B		
657.2				Medium Dense to Dense, Gray SANDY LOAM
	5			little - gravel
	7		11	
	12			
	7			
	9		10	
	30			
652.7				END OF BORING

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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SOIL BORING LOG

Date 4/30/13

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ROUTE Elgin O'Hare (IL 390) SECTION LOCATION SW 1/4 SEC. 5 TWP. 40N RNG. 11E PM. 3'

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0551
 Station 623+18.80 to 640+23.03
 BORING NO. R-224-RWB-44
 Station 629+92.23
 Offset 47.8 ft LT.
 Northing 1,936,828.49
 Easting 1,070,392.30
 Ground Surface Elev. 697.5 ft

DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
696.7				Gray below 6 feet (continued)				
2					6			
3	1.3	27			7	3.3	19	
3	B				10	B		
2					2			
2	1.2	30			6	3.1	21	
3	B				7	B		
691.5								
2					3			
4	2.5	17			4	2.7	22	
7	B				6	B		
2					4			
4	2.9	17			4		19	
7	B				8			
4					16			
5	3.9	17			9		12	
9	B				12			
4					5			
6	3.7	16			5	4.7	16	
9	B				7	B		
3					3			
3	1.8	19			6	2.1	16	
4	B				7	B		
2					5			
4	1.5	19			7	2.5	10	
4	B				14	P		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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 Station 623+18.80 to 640+23.03
 BORING NO. R-224-RWB-44
 Station 629+92.23
 Offset 47.8 ft LT.
 Northing 1,936,828.49
 Easting 1,070,392.30
 Ground Surface Elev. 697.5 ft

DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
657.0				Gray below 6 feet (continued)				
5					6			
6					10			
3								
654.5					2			
13					6	3.1	21	
38					7	B		
45								
652.0								
8					3			
8	2.1	13			4	2.7	22	
11	B				6	B		
9					4			
8	2.3	13			4		19	
11	B				8			
647.5					11	B		
END OF BORING								

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SOIL BORING LOG

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Date 11/30/12

CONTRACT 1-11-4031 DESCRIPTION Bridge B-35, Ramp G6 Over Ramp K3 LOGGED BY K. Krug

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION SE 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3"

COUNTY DuPage DRILLING METHOD Solid Stem Auger / Mud Rotary below 10 feet HAMMER TYPE Automatic

STRUCT. NO. 022-0549
 Station 622+98.86
 BORING NO. B-35-BSB-02
 Station 623+64.95
 Offset 12.2 ft LT.
 Northing 1,936,843.79
 Easting 1,069,773.20
 Ground Surface Elev. 708.6 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
0-4				TOPSOIL	0-4			
4-9	3.75	17		Very Stiff, Gray CLAY LOAM trace - gravel (continued)	4-9		2.3 ^B	18
9-9	P			ST-9 (21'-23') Grain Size LL=31, PI=11, A-6(6) Dry Density=114 pcf	9-9		B	
9-11				Stiff to Hard, Brown and Gray SILTY CLAY trace - gravel, roots	9-11		2.9	20
11-15					11-15		8	B
15-17					15-17		6	2.4
17-19					17-19		7	B
19-21					19-21		5	
21-23					21-23		8	3.0
23-25					23-25		8	B
25-27					25-27		4	
27-29					27-29		6	2.6
29-31					29-31		8	B
31-33					31-33		6	
33-35					33-35		8	2.5
35-37					35-37		11	B
37-39					37-39		4	
39-41					39-41		5	2.1
41-43					41-43		10	B
43-45					43-45		6	
45-47					45-47		8	2.9
47-49					47-49		8	B

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ROUTE Elgin O'Hare (IL 390) SECTION LOCATION SE 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3"

COUNTY DuPage DRILLING METHOD Solid Stem Auger / Mud Rotary below 10 feet HAMMER TYPE Automatic

STRUCT. NO. 022-0549
 Station 622+98.86
 BORING NO. B-35-BSB-02
 Station 623+64.95
 Offset 12.2 ft LT.
 Northing 1,936,843.79
 Easting 1,069,773.20
 Ground Surface Elev. 708.6 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
0-4				TOPSOIL	0-4			
4-6				Medium Dense, Gray SILTY LOAM little - gravel	4-6			
6-7				Very Stiff, Gray SILTY CLAY trace - gravel	6-7		2.5	18
7-11					7-11		B	
11-14				Very Stiff, Gray SILTY CLAY little - gravel	11-14		17	
14-17					14-17		P	
17-19					17-19		3.5	14
19-21					19-21		16	
21-23					21-23		17	
23-25					23-25		18	
25-27					25-27		18	
27-29					27-29		5	
29-31					29-31		12	
31-33					31-33		16	
33-35					33-35		6	
35-37					35-37		10	
37-39					37-39		12	
39-41					39-41		10	
41-43					41-43		11	
43-45					43-45		11	

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COUNTY DuPage DRILLING METHOD Solid Stem Auger / Mud Rotary below 10 feet HAMMER TYPE Automatic

STRUCT. NO. 022-0549
 Station 622+98.86
 BORING NO. B-35-BSB-03
 Station 624+08.13
 Offset 5.4 ft RT.
 Northing 1,936,830.47
 Easting 1,069,808.00
 Ground Surface Elev. 708.2 ft

DEPTH (ft)	SOIL DESCRIPTION	MOISTURE (%)	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE	DEPTH (ft)	SOIL DESCRIPTION	MOISTURE (%)	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE
707.2	TOPSOIL					Very Stiff to Hard, Gray CLAY LOAM trace - gravel			
7	Stiff to Very Stiff, Brown and Gray CLAY		7		4				
6	trace - gravel, roots	3.3	20		5		2.3	20	
6	Grain Size	B			6		B		
705.2	LL=40, PI=17, A-6(12)								
	Dry Density=109 pcf								
5	Brown, Black and Gray below 3 feet				3				
6		2.1	17		6		3.1	20	
8		B			8		B		
4					5				
4		1.8	18		8		1.3	20	
6		B			9		B		
700.2	FILL								
9	Very Stiff to Hard, Gray SILTY CLAY trace - gravel				4				
11		3.7	18		6		3.0	20	
9		B			7		B		
4					3				
6		4.3	19		5		3.3	20	
10		B			8		B		
675.2									
3	Loose, Gray LOAM little - gravel				3				
7	Grain Size	3.4	20		3			14	
8	LL=24, PI=7, A-4(1)	B			5				
15	Dry Density=121 pcf								
3									
4		3.3	20						
6		B							
671.2									
4	Very Stiff, Gray SILTY CLAY trace - gravel				4				
6					5		2.5	20	
8		4.3	18		8		B		
688.2									

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COUNTY DuPage DRILLING METHOD Solid Stem Auger / Mud Rotary below 10 feet HAMMER TYPE Automatic

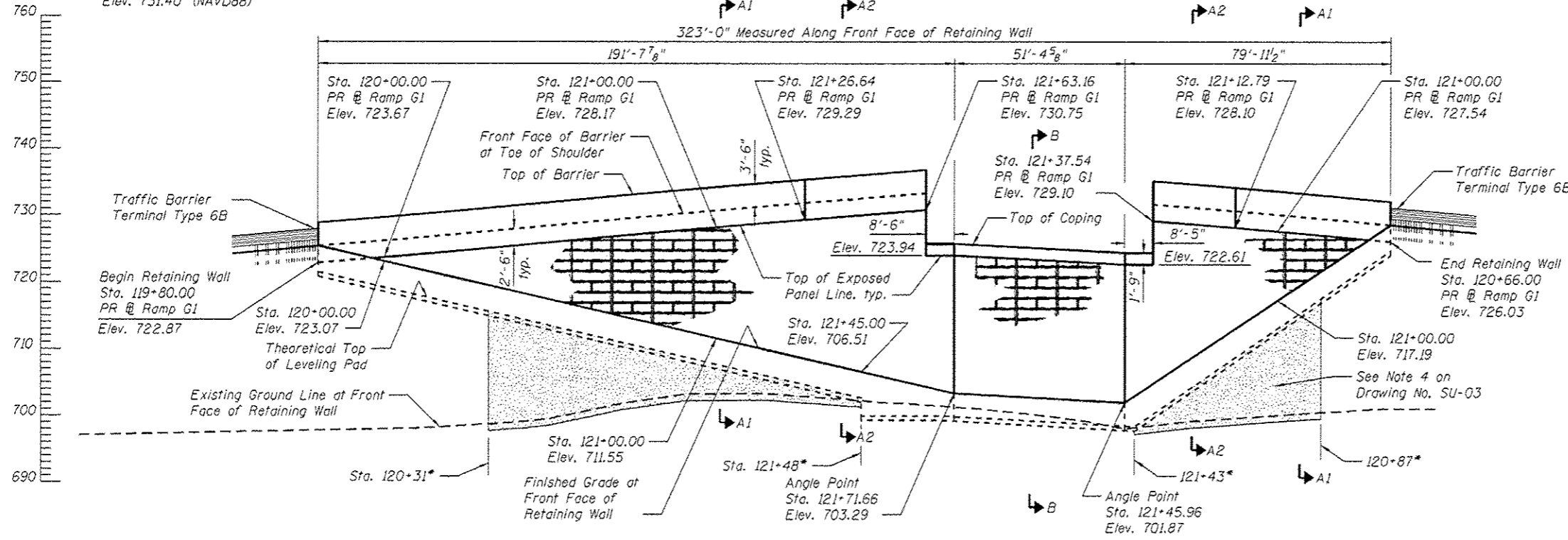
STRUCT. NO. 022-0549
 Station 622+98.86
 BORING NO. B-35-BSB-03
 Station 624+08.13
 Offset 5.4 ft RT.
 Northing 1,936,830.47
 Easting 1,069,808.00
 Ground Surface Elev. 708.2 ft

DEPTH (ft)	SOIL DESCRIPTION	MOISTURE (%)	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE	DEPTH (ft)	SOIL DESCRIPTION	MOISTURE (%)	UNCONF. COMP. STRENGTH (tsf)	FAILURE MODE
666.2	Very Stiff, Gray SILTY CLAY trace - gravel (continued)					Stiff, Gray SILTY CLAY little - gravel (continued)			
11					12				
12					12				10
14					15				
661.2	Medium Dense, Gray SANDY LOAM some - gravel								
13					13				
23		3.5	14		14				21
9		B			14				
656.2	Very Stiff, Gray SILTY CLAY trace - gravel								
3					9				
4					23				18
5					49				
656.2	Loose, Gray SILTY LOAM trace - gravel								
3					9				
4					23				
5					49				
651.2	Dense to Extremely Dense, Gray SANDY LOAM trace - gravel								
10					31				
12		1.2	14		49				14
10		B			50/5"				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Bench Mark: BM#716 - Cut square in the Northwest end of bridge wall. Approximately 65 feet North of the centerline of Thorndale Ave. and 168 feet West of the centerline of I-290. Approximately 12 feet West of bridge deck. Elev. 731.40' (NAVD88)



ELEVATION

(Unfolded Elevation View)

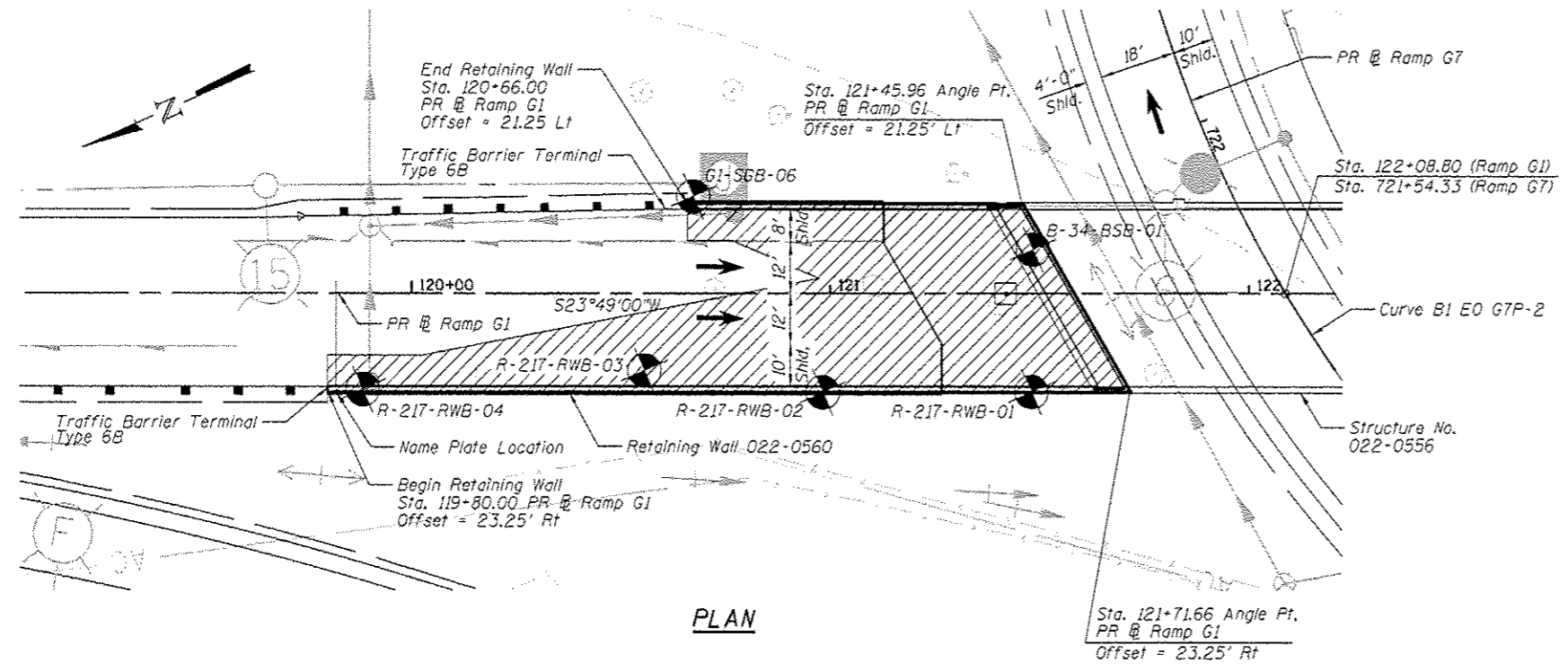
* Limits may vary depending on Contractor's Retaining Wall design

Notes:

1. Wall stations and offsets are given to the front face of the wall and are measured from the baseline of Ramp G1.
2. Top of wall elevations are given to the top of exposed panel line along front face of MSE Wall Panels. Bottom of wall elevations are measured to top of finish grade along front face of MSE Wall Panels.
3. All exposed faces of the MSE Wall panels shall have a Formliner simulated limestone surface. See Special Provisions for additional details.
4. For Section A1-A1, Section A2-A2, and Section B-B, see Drawing No. SU-03.
5. For additional notes, see Drawing No. SU-02.
6. Erect settlement platform on Baseline 5 feet behind the abutment in accordance with Article 204.06 of the Standard Specifications for Road and Bridge Construction except that the platform shall be placed at the bottom of the MSE soil mass. Payment for the Settlement Platform shall be included in the payment item for MSE walls.

LEGEND

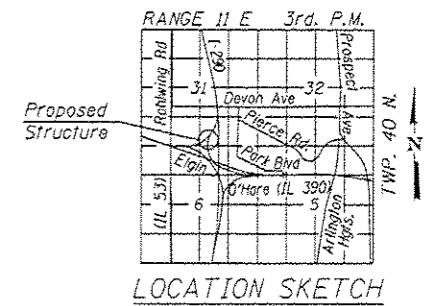
- Reinforced Soil Mass, Approximate Limits
- Indicates Granular Backfill for Structures
- MSE Wall Panels (See Note 3)
- Soil Borings
- Settlement Platform



PLAN

APPROVED
For Structural Adequacy Only

Jeffrey S. Aldrich
Engineer of Bridges & Structures



Jeffrey S. Aldrich
Jeffrey S. Aldrich
Licensed Structural Engineer
State of Illinois No. 081-007301
Expires 11/30/2016

GENERAL PLAN & ELEVATION
ELGIN O'HARE (IL-390) AT I-290
DUPAGE COUNTY
EB RAMP G1 STA 119+80.00 TO
EB RAMP G1 STA 121+71.66
STRUCTURE NO. 022-0560

FILE NAME = 0220562-62149-001-GP5.dgn	USER NAME = asenting	DESIGNED - EJM	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 022-0560	F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 609
CH2MHILL	PLOT SCALE = 48.0000' / in.	CHECKED - JLT	REVISD -			DRAWING NO. SU-01	CONTRACT NO. 60Y95			
	PLOT DATE = 10/28/2014	DRAWN - EJM	REVISD -			ILLINOIS FED. AID PROJECT				
		CHECKED - JLT	REVISD -							

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2013 Interims

Tollway Structure Design Manual, March 2014 with latest Tollway Design Bulletins

Illinois Department of Transportation Bridge Manual, January 2012

DESIGN STRESSES

FIELD UNITS

- f'_c = 3,500 PSI Class BS (Barrier Rail and Anchor Slab)
- f'_c = 3,500 PSI Class SI (all other CIP Concrete)
- f_y = 60,000 PSI (Reinforcement)

PRECAST UNITS

- f'_c = 4,500 PSI (Precast Face Panel)

TRAFFIC BARRIER LOADING

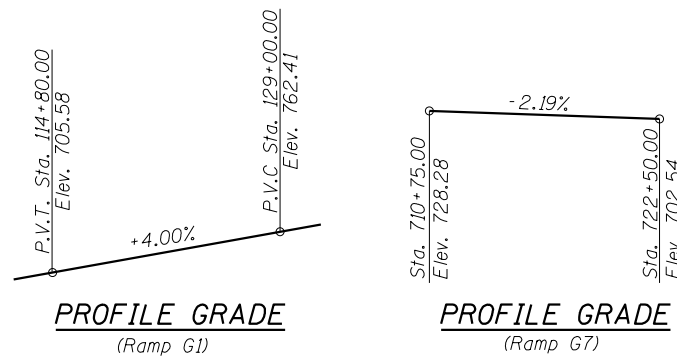
Traffic Impact per AASHTO LRFD Bridge Design Specifications

GENERAL NOTES

1. The Contractor shall design and construct MSE Wall per the Special Provisions.
2. Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315, latest edition.
3. Reinforcing bars designated "(E)" shall be epoxy coated.
4. Reinforcement bar bending dimensions are out to out.
5. Apply Protective Coat to top and traffic face of barrier and anchor slab.
6. All exposed concrete edges shall have a $\frac{3}{4}$ " x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground line.
7. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.
8. No construction joints except those shown on the plans will be allowed unless otherwise approved by the Engineer.
9. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
10. It shall be the Contractor's responsibility to verify the location of all fiber optic utilities prior to starting construction. The Contractor shall initiate the location process for the fiber optic cable by completing a "Request Tollway Utilities Locate" form filled in online at the Tollway website under "Doing Business" at least four (4) business days prior to starting any underground operations, excavations or digging of any type in the general area of the fiber optic cable.
11. Slipforming of barriers is not allowed.

INDEX OF SHEETS

- SU-01 General Plan & Elevation
- SU-02 General Data
- SU-03 Wall Sections
- SU-04 Anchorage Slab Plan & Elevation No. 1
- SU-05 Anchorage Slab Plan & Elevation No. 2
- SU-06 Anchorage Slab Plan & Elevation No. 3
- SU-07 Anchorage Slab & Barrier Details No. 1
- SU-08 Anchorage Slab & Barrier Details No. 2
- SU-09 Anchorage Slab & Barrier Details No. 3
- SU-10 Soil Boring Logs No. 1
- SU-11 Soil Boring Logs No. 2
- SU-12 Soil Boring Logs No. 3
- SU-13 Soil Boring Logs No. 4



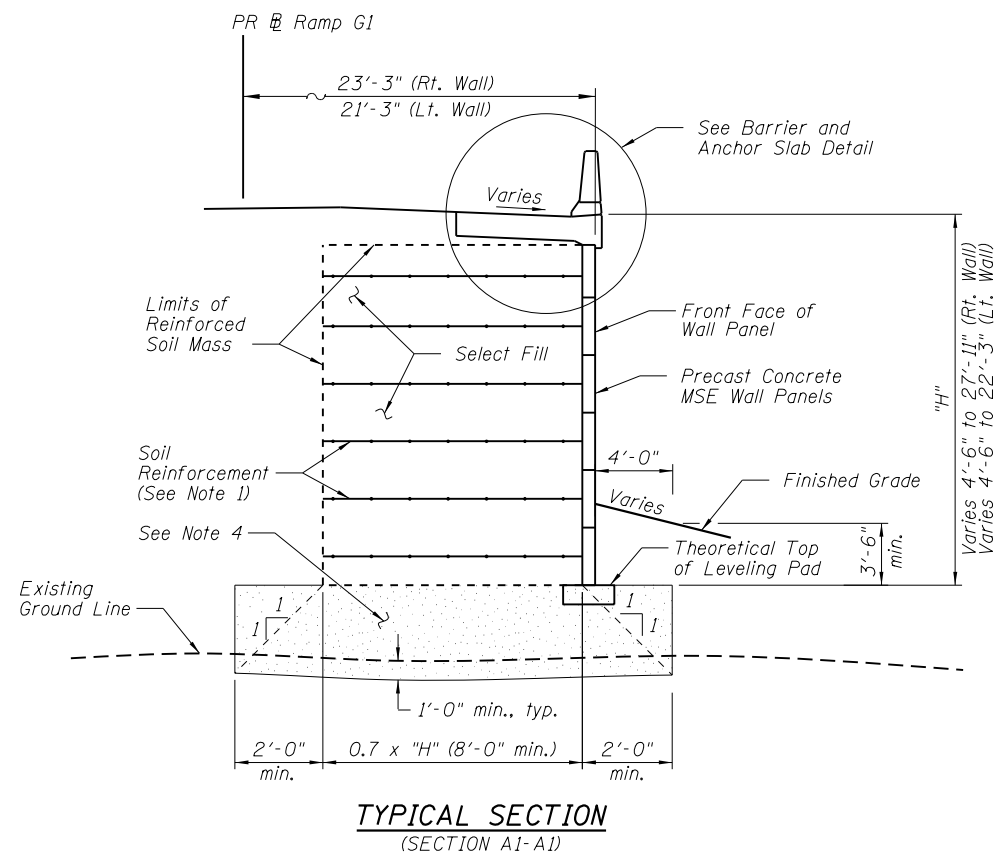
HORIZONTAL CURVE DATA

Curve B1 E0 G7P-2
 along PR @ Ramp G7
 PI Sta. = 720+83.19
 Δ = 205°15'58" (RT)
 D = 19°05'55"
 R = 300.00'
 L = 1,074.77
 T = 1,338.50
 S.E. = 7.5%
 P.C. Sta. = 715+45.80
 P.T. Sta. = 726+20.58

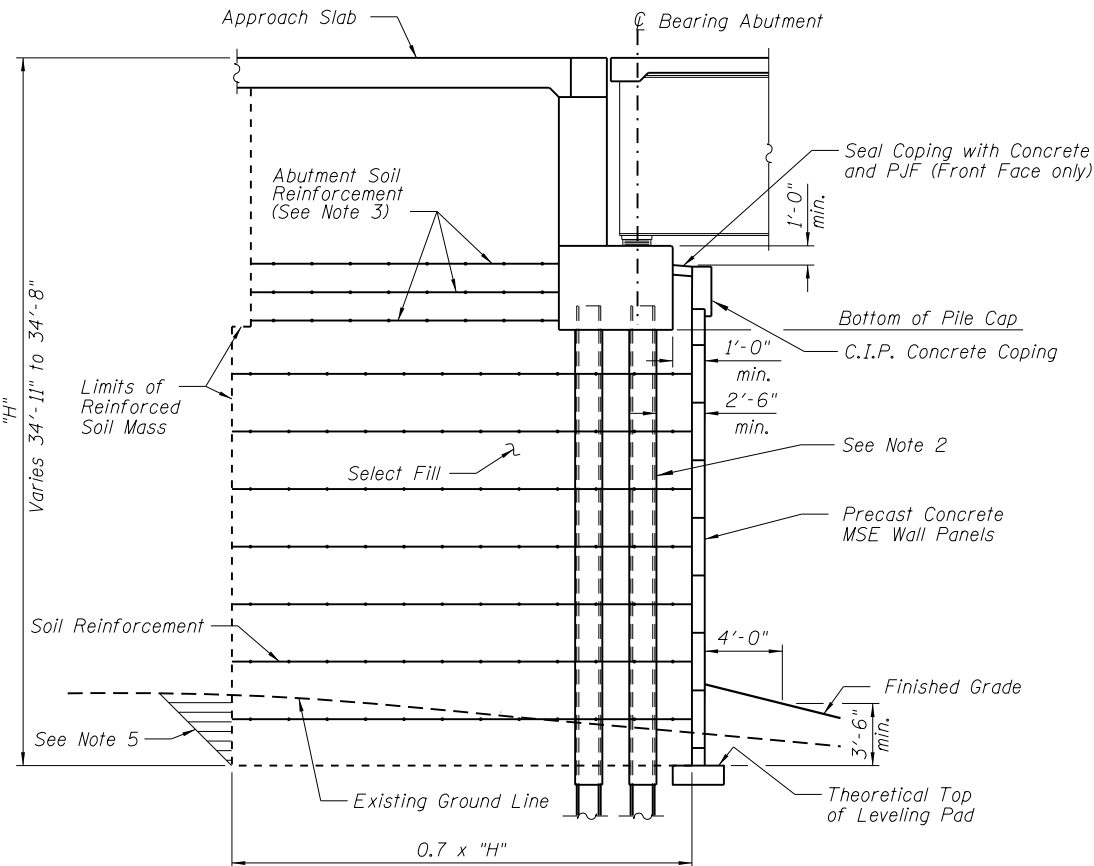
TOTAL BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
Protective Coat	SQ YD	301
Structure Excavation	CU YD	144
Concrete Superstructure	CU YD	174.9
Reinforcement Bars, Epoxy Coated	POUND	28120
Name Plates	EACH	1
Granular Backfill for Structures	CU YD	2291
Mechanically Stabilized Earth Retaining Wall	SQ FT	5876

STATION 119+82
 BUILT 201 BY
 STATE OF ILLINOIS
 F.A.I. RT. 290
 SEC. 2013-083-R&B
 STRUCTURE NO. 022-0560

NAME PLATE
 See Std. 515001



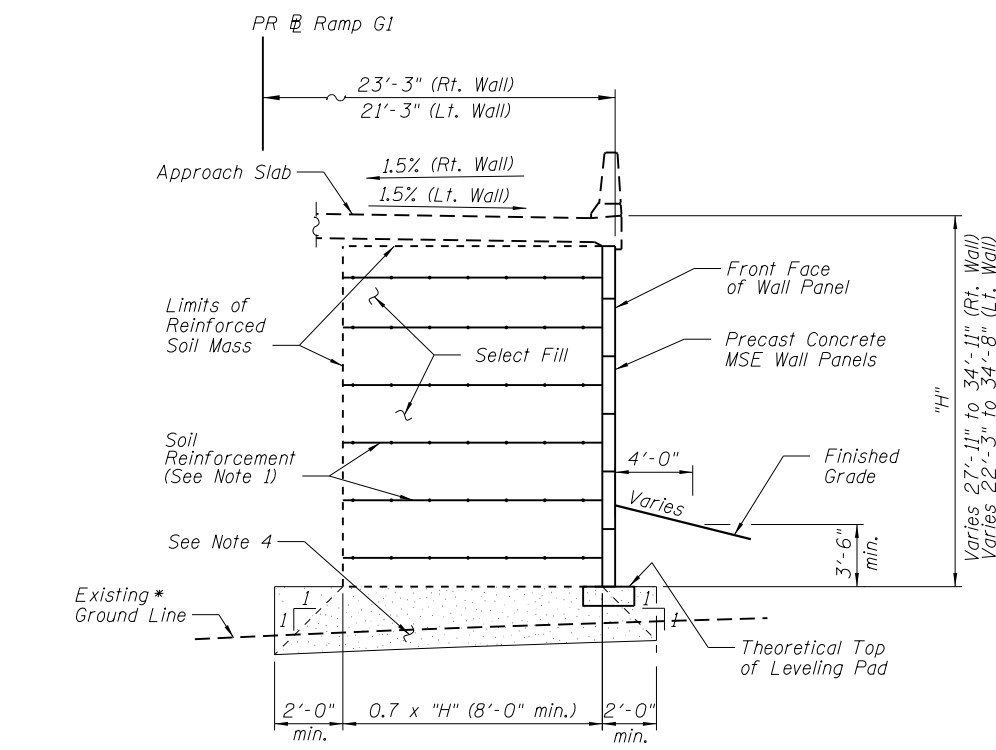
TYPICAL SECTION
(SECTION A1-A1)



SECTION THRU ABUTMENT
(SECTION B-B)

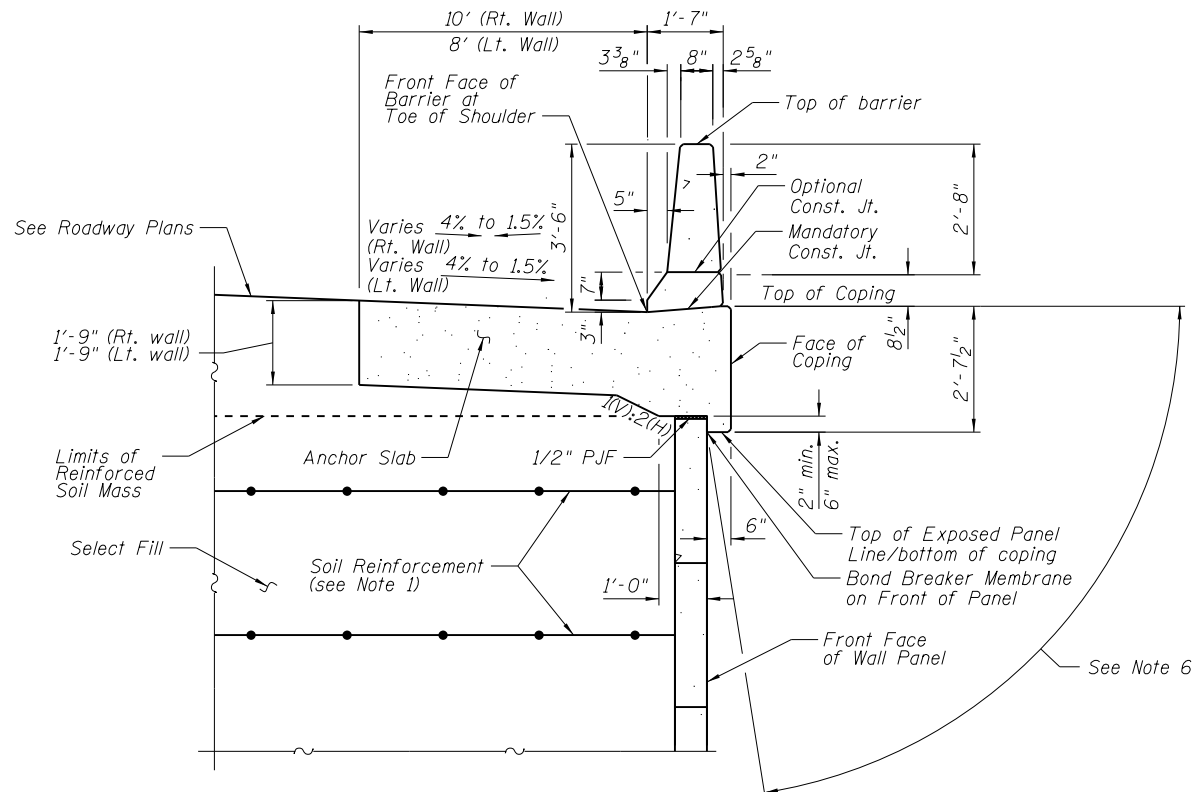
Notes:

1. The MSE wall supplier's internal stability design shall account for the anchor slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 1.15 kips/ft. of wall.
2. Pile Sleeve (See Bridge Plans).
3. The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 3.6 kips/ft. of abutment for the Service I limit state. The specified horizontal force includes abutment loads from bridge forces and active soil pressure.
4. Granular Backfill for Structures required for wall height, "H" ≥ 12'.
5. Overexcavation beyond the limits of structure excavation not measured for payment. Backfill overexcavation with same material used for Select Fill.
6. Apply concrete stain entire length of wall. See Form liner Special Provisions for requirements.

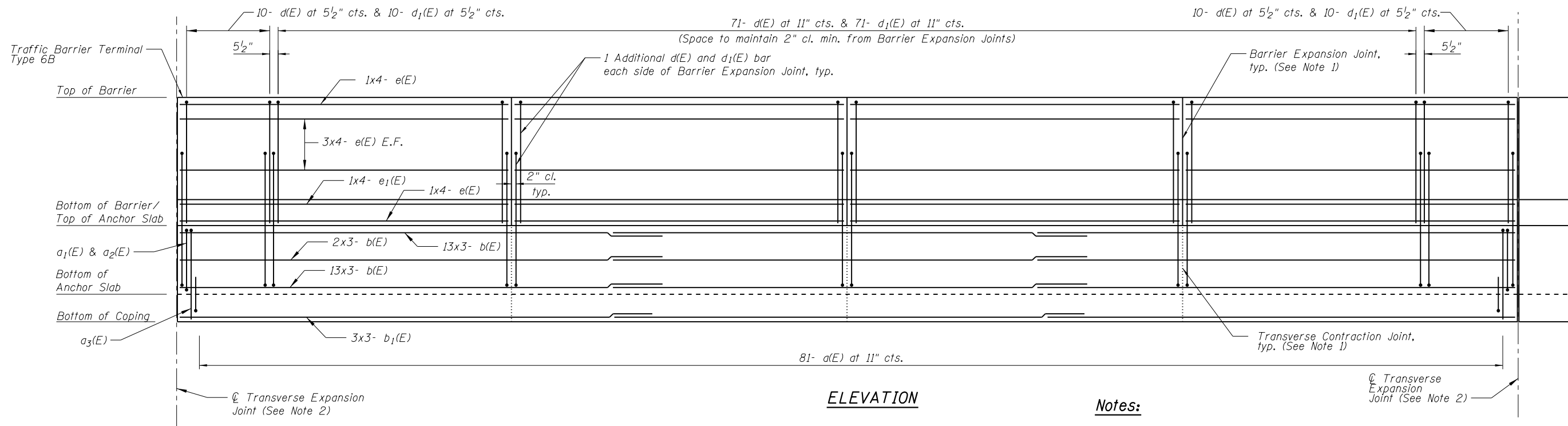


TYPICAL SECTION
(SECTION A2-A2)

*Section with Existing Ground Line above Leveling Pad not shown, see Note 5



BARRIER AND ANCHOR SLAB DETAIL



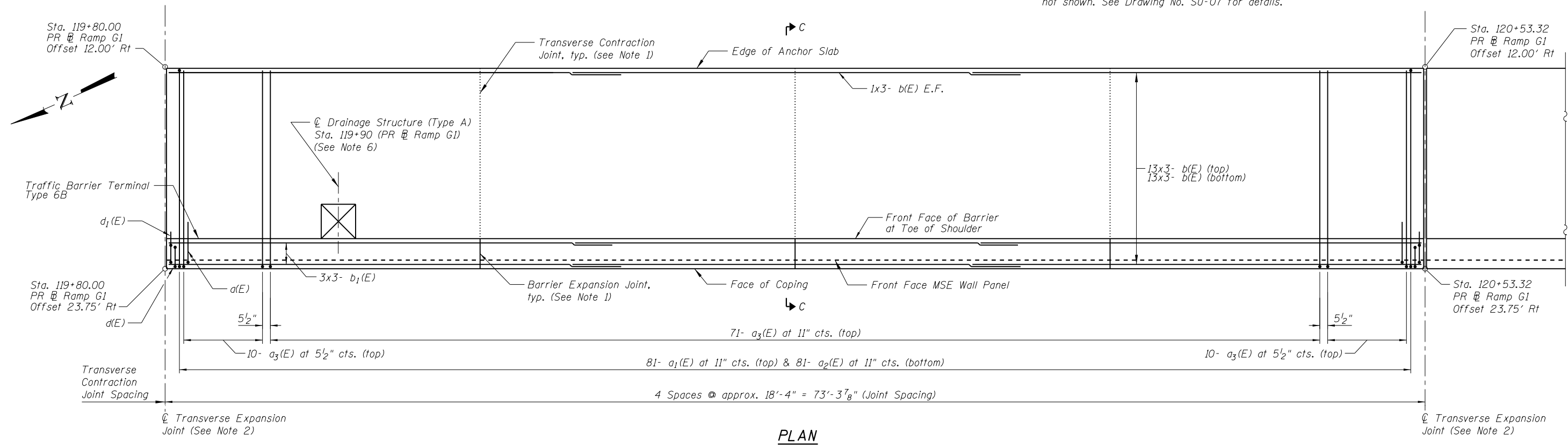
ELEVATION

Notes:

1. Place Transverse Contraction Joints with Barrier Expansion Joints perpendicular to Face of Coping. For details, see Drawing No. SU-08.
2. Place Transverse Expansion Joints perpendicular to Face of Coping. For details, see Drawing No. SU-08.
3. For Section C-C, see Drawing No. SU-07.
4. Bar spacing for transverse reinforcement measured along Front Face MSE Wall Panel.
5. Barrier longitudinal reinforcement not shown in Plan View for Clarity.
6. Additional anchor slab transverse reinforcement at drainage structure not shown. See Drawing No. SU-07 for details.

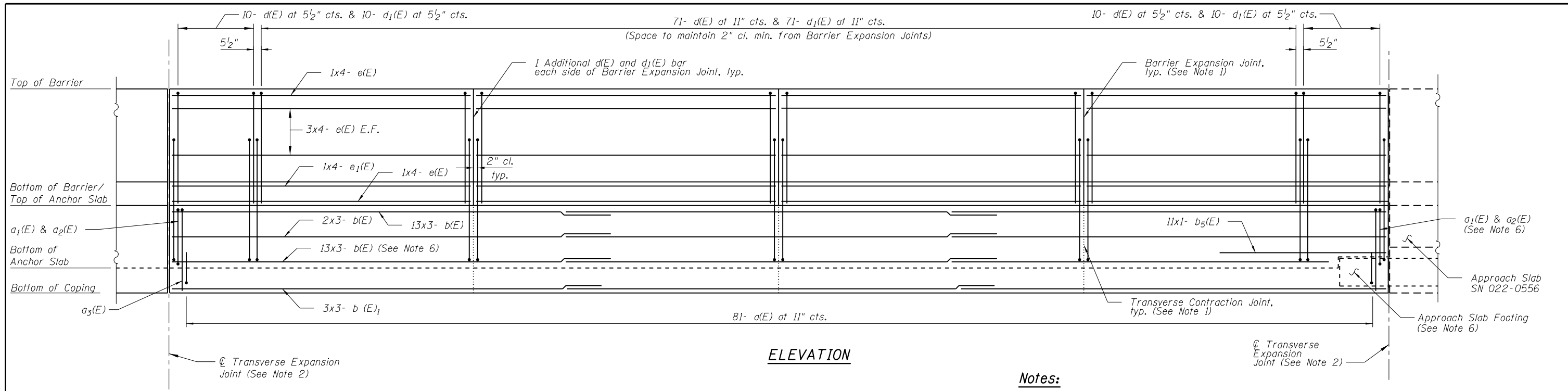
Minimum Bar Lap

- #4 Bar = 2'-4"
- #5 Bar = 3'-0"
- #6 Bar = 3'-6"
- #7 Bar = 4'-8"
- #8 Bar = 6'-0"



PLAN

FILE NAME = 0220560-60Y95-004-AnchSlabP&E1.dgn CH2MHILL	USER NAME = asantiag	DESIGNED - EJM	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ANCHORAGE SLAB PLAN & ELEVATION No. 1 STRUCTURE NO. 022-0560 SHEET NO. 04 OF 13 SHEETS	F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 612
	PLOT SCALE = 6.0000' / in.	DRAWN - EJM	REVISED - -			DRAWING NO. SU-04	CONTRACT NO. 60Y95			
	PLOT DATE = 10/28/2014	CHECKED - JLT	REVISED - -			ILLINOIS FED. AID PROJECT				



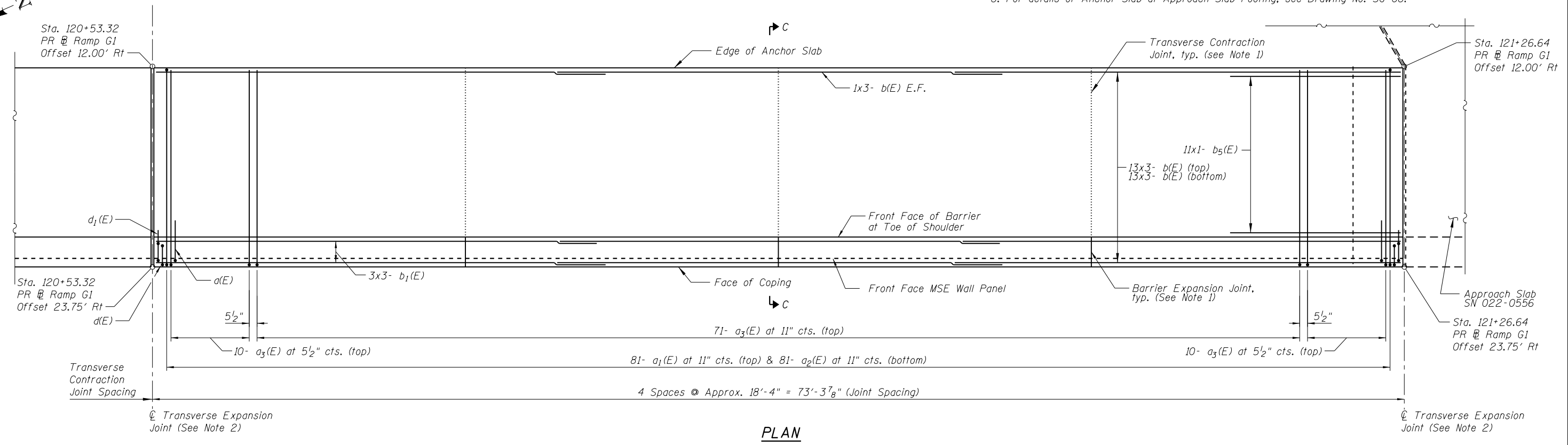
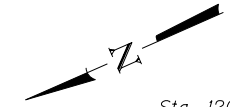
ELEVATION

Minimum Bar Lap

- #4 Bar = 2'-4"
- #5 Bar = 3'-0"
- #6 Bar = 3'-6"
- #7 Bar = 4'-8"
- #8 Bar = 6'-0"

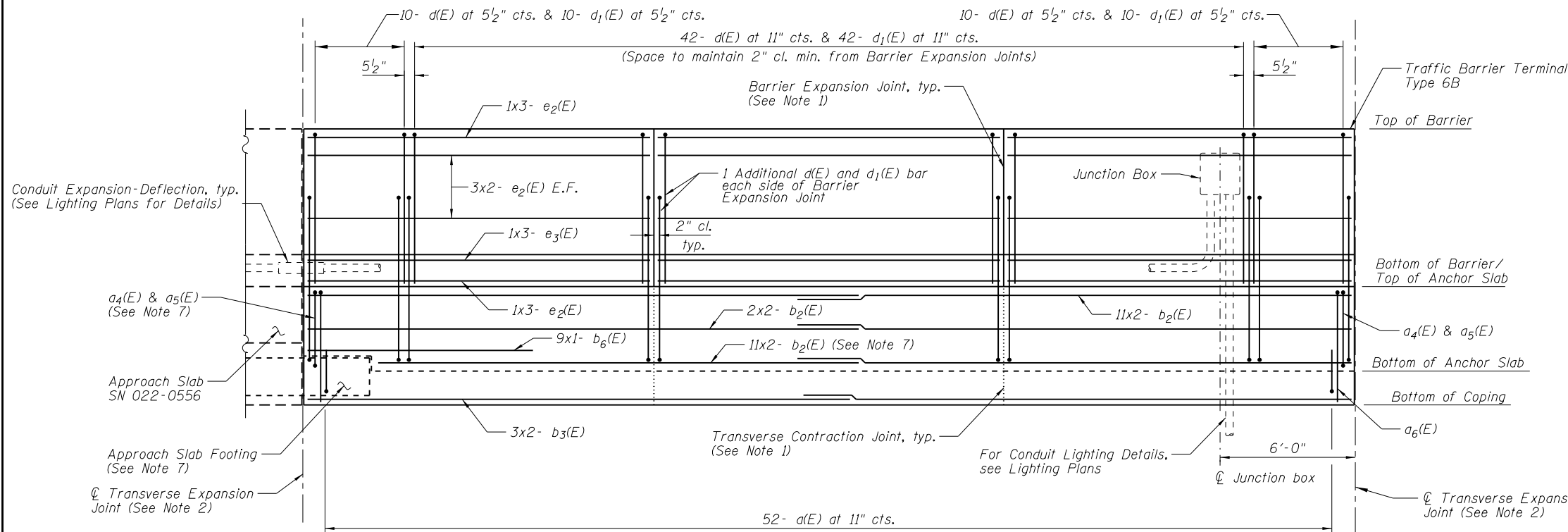
Notes:

1. Place Transverse Contraction Joints with Barrier Expansion Joints perpendicular to Face of Coping. For details, see Drawing No. SU-08.
2. Place Transverse Expansion Joints perpendicular to Face of Coping. For details, see Drawing No. SU-08.
3. For Section C-C, see Drawing No. SU-07.
4. Bar spacing for transverse reinforcement measured along Front Face MSE Wall Panel.
5. Barrier longitudinal reinforcement not shown in Plan View for Clarity.
6. For details of Anchor Slab at Approach Slab Footing, see Drawing No. SU-08.



PLAN

FILE NAME = 0220560-60Y95-005-AnchSlabP&E2.dgn CH2MHILL	USER NAME = asantiag	DESIGNED - EJM	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ANCHORAGE SLAB PLAN & ELEVATION No. 2 STRUCTURE NO. 022-0560 SHEET NO. 05 OF 13 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 6.0000' / in.	DRAWN - EJM	REVISED - -			345	2013-083-R&B	DUPAGE	759	613	
	PLOT DATE = 10/28/2014	CHECKED - JLT	REVISED - -			DRAWING NO. SU-05		CONTRACT NO. 60Y95			
	ILLINOIS FED. AID PROJECT										



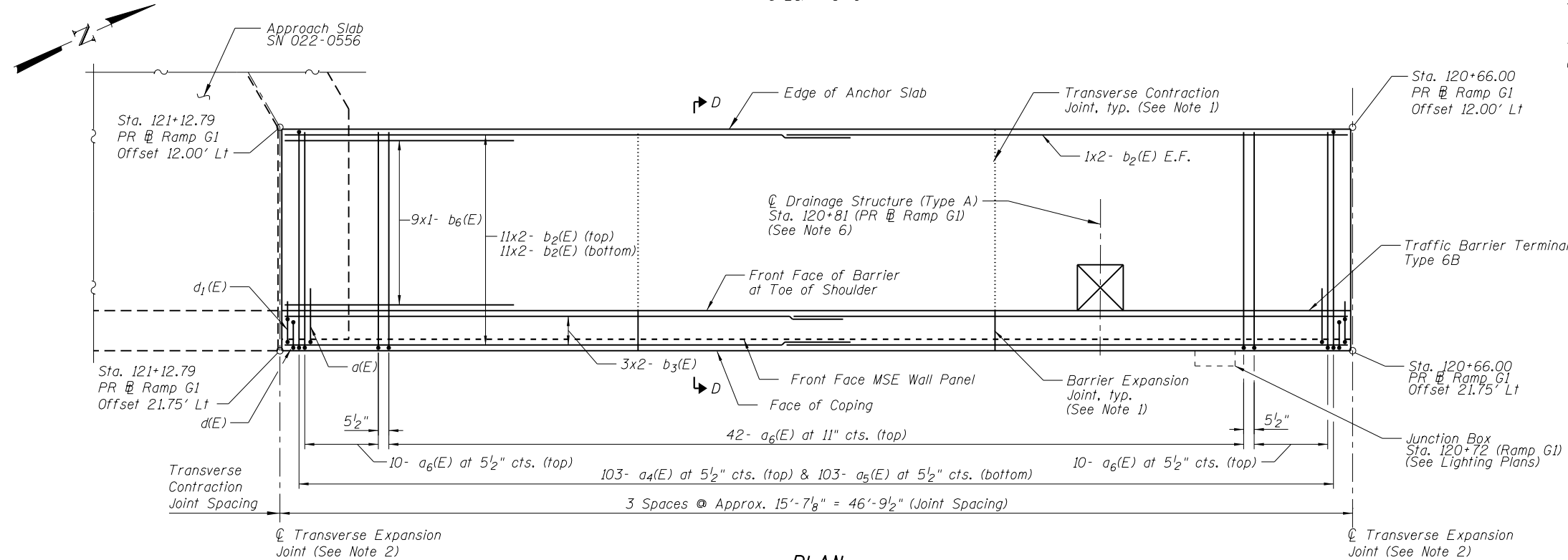
ELEVATION

Minimum Bar Lap

- #4 Bar = 2'-4"
- #5 Bar = 3'-0"
- #6 Bar = 3'-6"
- #7 Bar = 4'-8"
- #8 Bar = 6'-0"

Notes:

1. Place Transverse Contraction Joints with Barrier Expansion Joints perpendicular to Face of Coping. For details, see Drawing No. SU-08.
2. Place Transverse Expansion Joints perpendicular to Face of Coping. For details, see Drawing No. SU-08.
3. For Section D-D, see Drawing No. SU-07.
4. Bar spacing for transverse reinforcement measured along Front Face MSE Wall Panel.
5. Barrier longitudinal reinforcement not shown in Plan View for Clarity.
6. Additional anchor slab transverse reinforcement at drainage structure not shown. See Drawing No. SU-07 for details.
7. For details of Anchor Slab at Approach Slab Footing, see Drawing No. SU-08.



PLAN

FILE NAME = 0220560-60Y95-006-AnchSlabP&E3.dgn
CH2MHILL

USER NAME = asantiag
 DESIGNED - EJM
 CHECKED - JLT
 DRAWN - EJM
 CHECKED - JLT
 PLOT SCALE = 6.0000' / in.
 PLOT DATE = 10/28/2014

DESIGNED - EJM
 CHECKED - JLT
 DRAWN - EJM
 CHECKED - JLT

REVISED -
 REVISED -
 REVISED -
 REVISED -

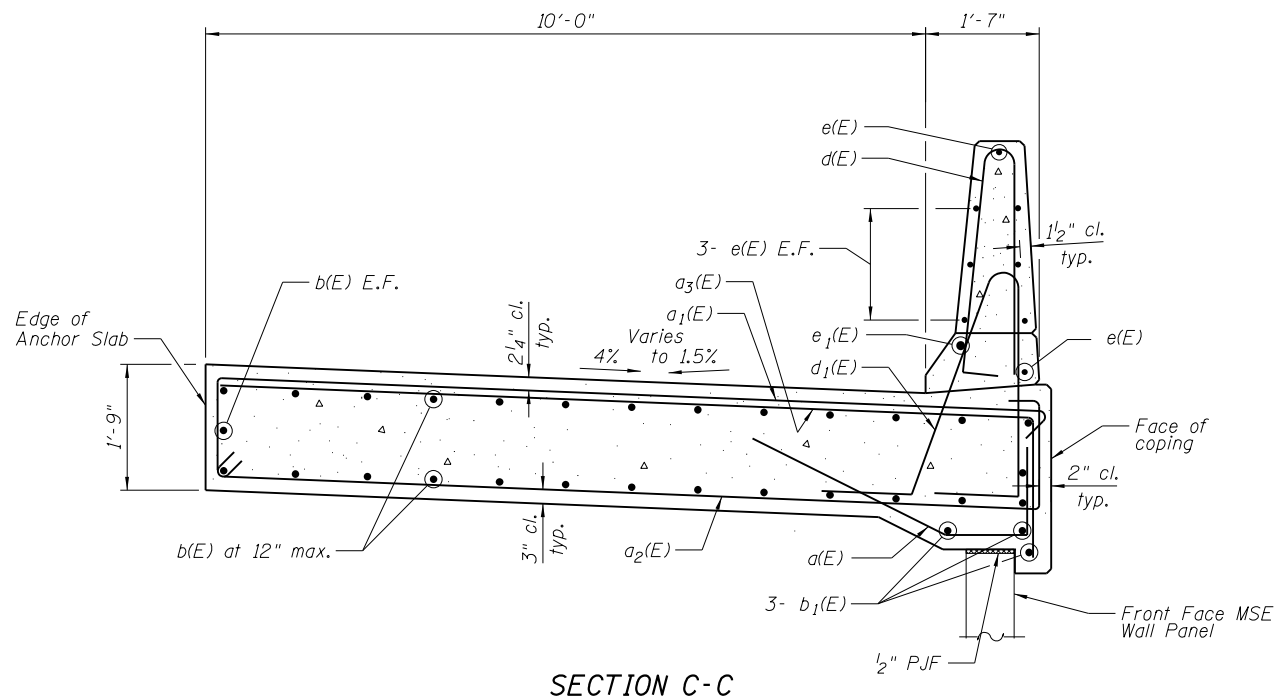
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN & ELEVATION No. 3
 STRUCTURE NO. 022-0560**

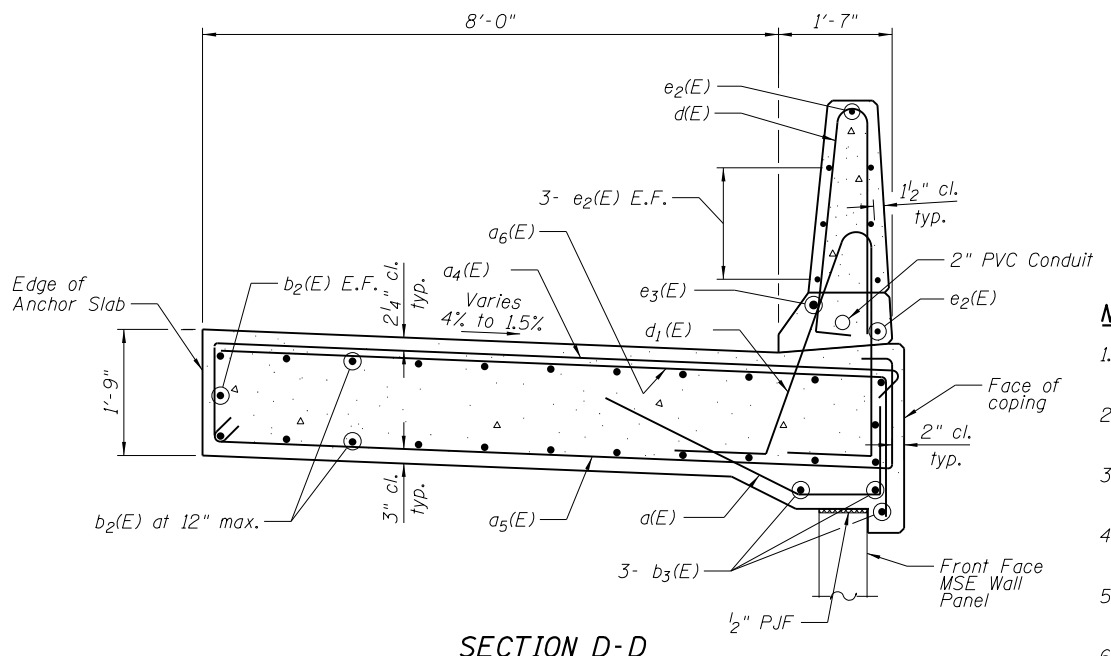
SHEET NO. 06 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	614
DRAWING NO. SU-06		CONTRACT NO. 60Y95		

ILLINOIS FED. AID PROJECT



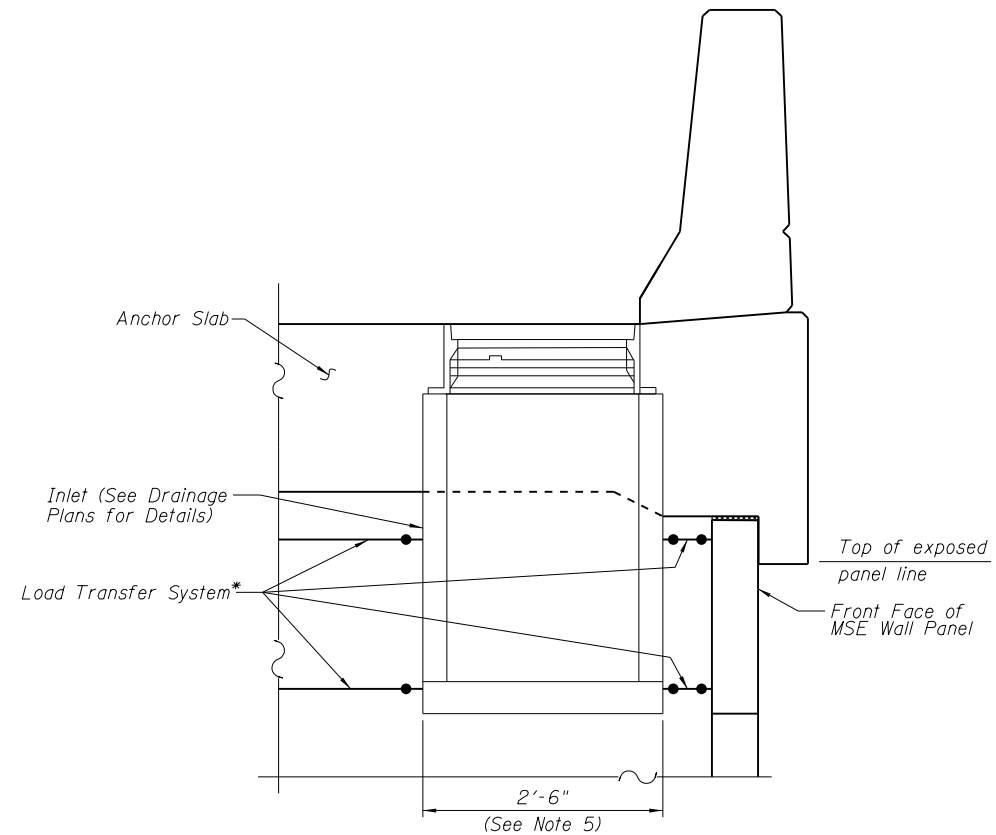
SECTION C-C



SECTION D-D

Notes:

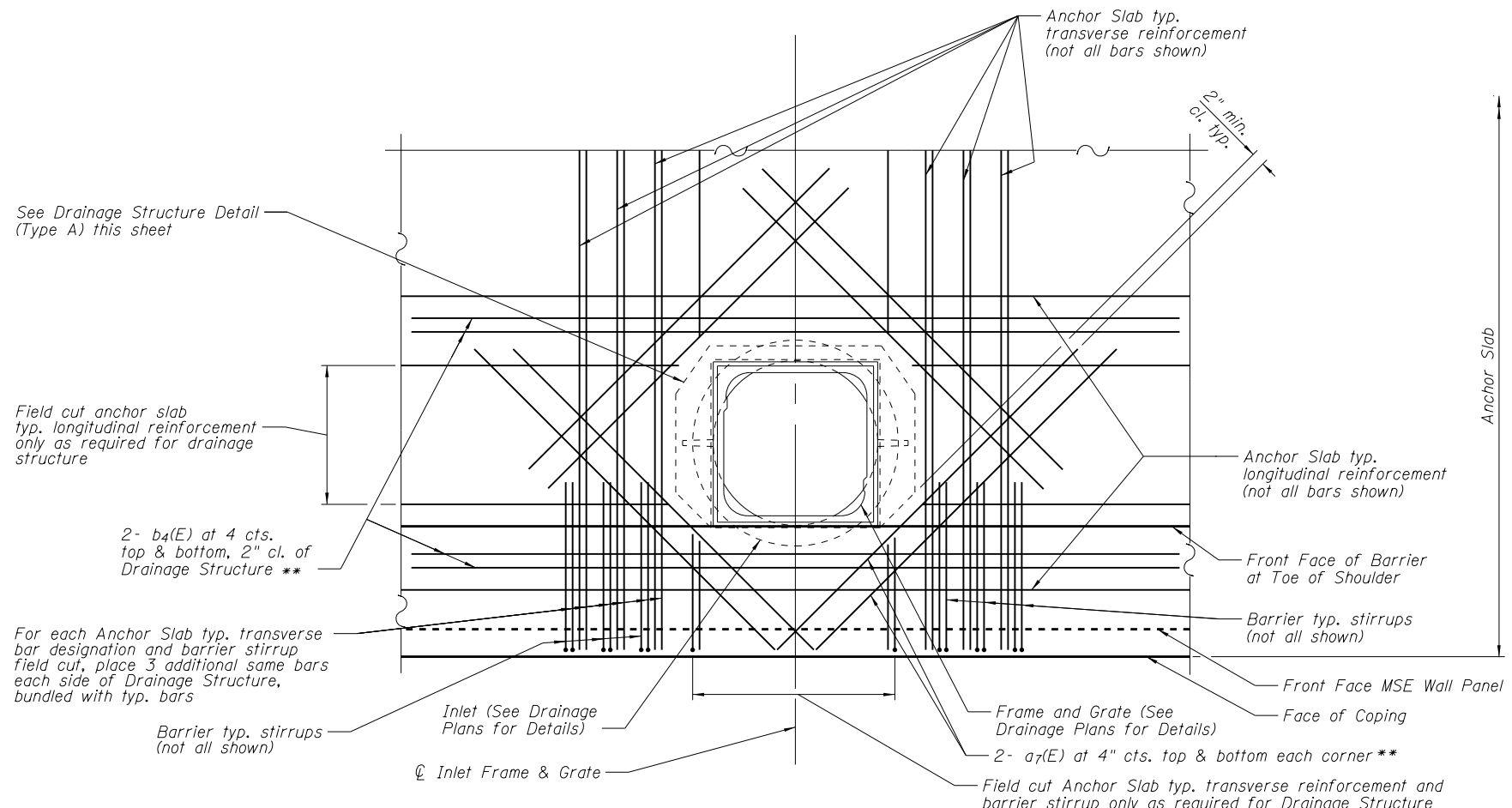
1. For anchor slab details not provided, see Anchorage Slab Plan & Elevation sheets.
2. For locations of Section C-C and Section D-D, see Anchorage Slab Plan & Elevation sheets.
3. For Anchor Slab Bill of Materials and Bar Details, see Drawing No. SU-09.
4. For Anchor Slab dimensions not shown, see Barrier and Anchor Slab Detail on Drawing No. SU-03.
5. Size and shape of drainage structure approximate, see Drainage Plans for details.
6. Cost of P.J.F. included in Concrete Superstructure.



DRAINAGE STRUCTURE DETAIL (TYPE A)

(Cross slope not shown)

* MSE supplier to design load transfer system to accommodate drainage structure.

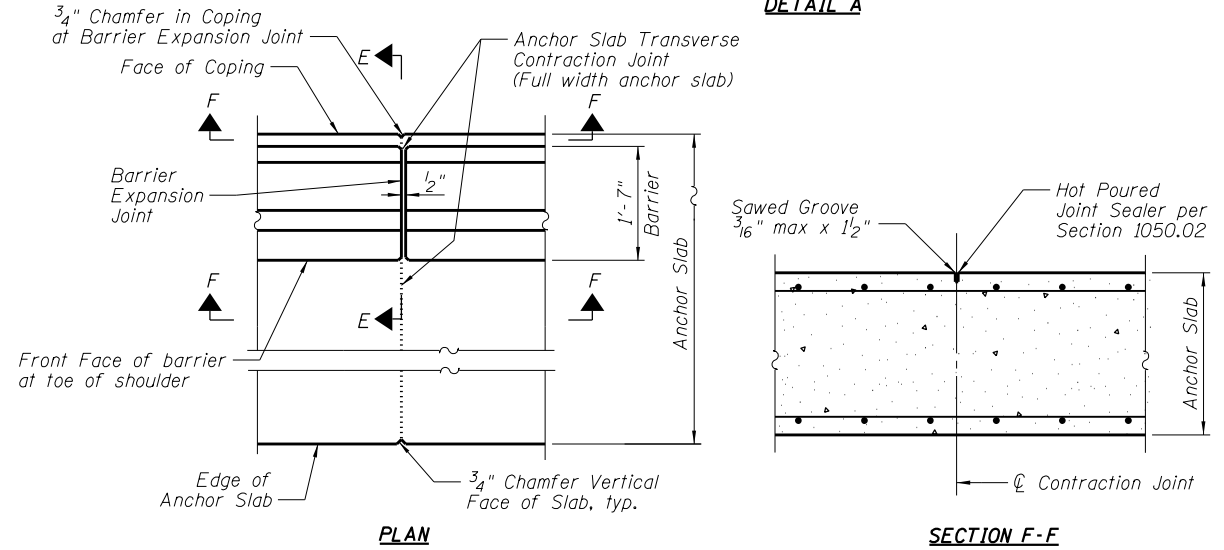
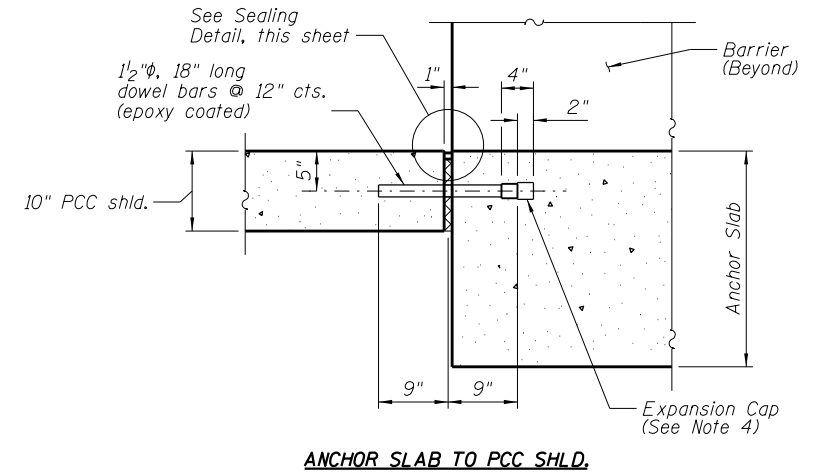
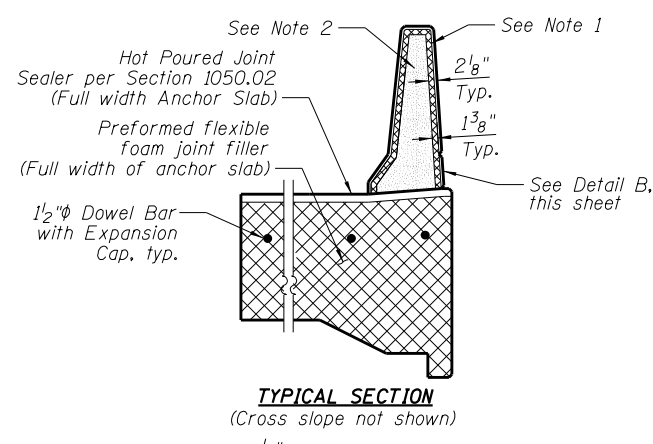
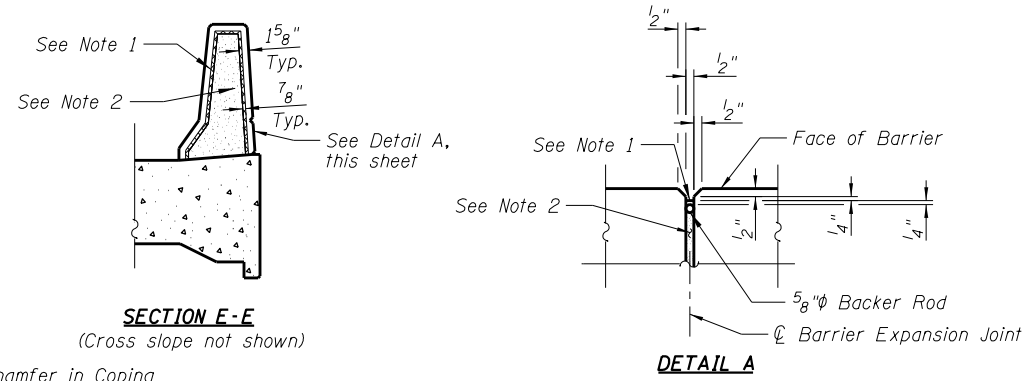


PLAN AT DRAINAGE STRUCTURE (TYPE A)

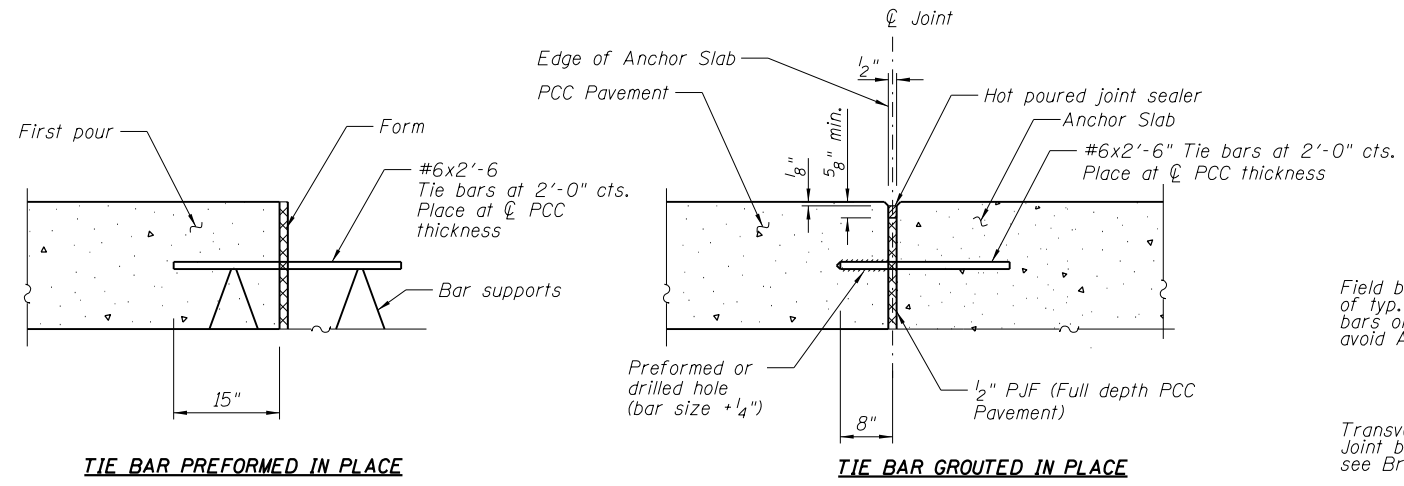
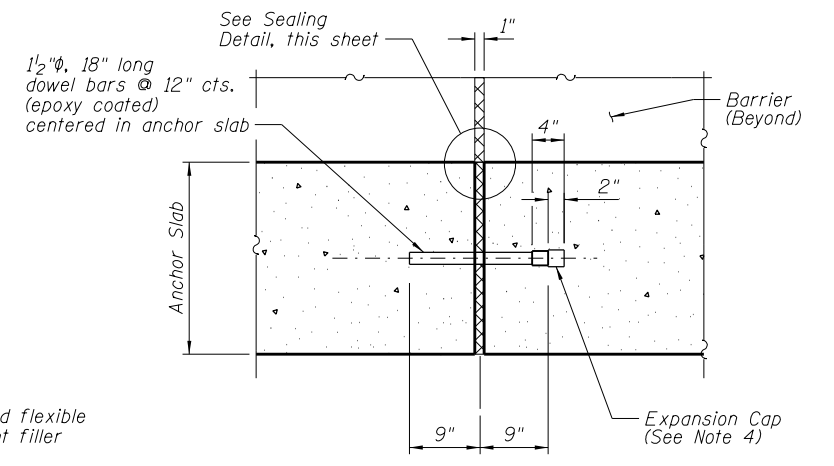
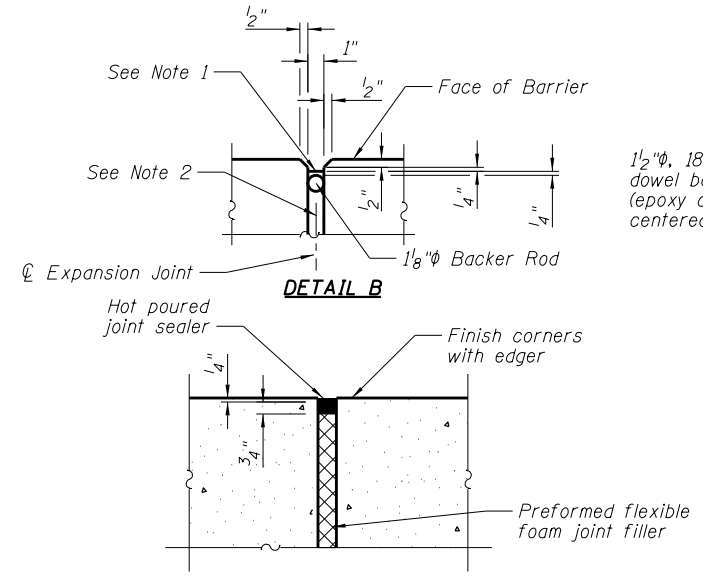
Inlet - Sta. 119+90.00 (PR \square Ramp G1), Offset 21.00' Rt.
Inlet - Sta. 120+77.00 (PR \square Ramp G1), Offset 19.00' Lt.

** Place bars symmetric about \square drainage inlet as space permits, see Anchorage Slab Bill of Materials for bar lengths.

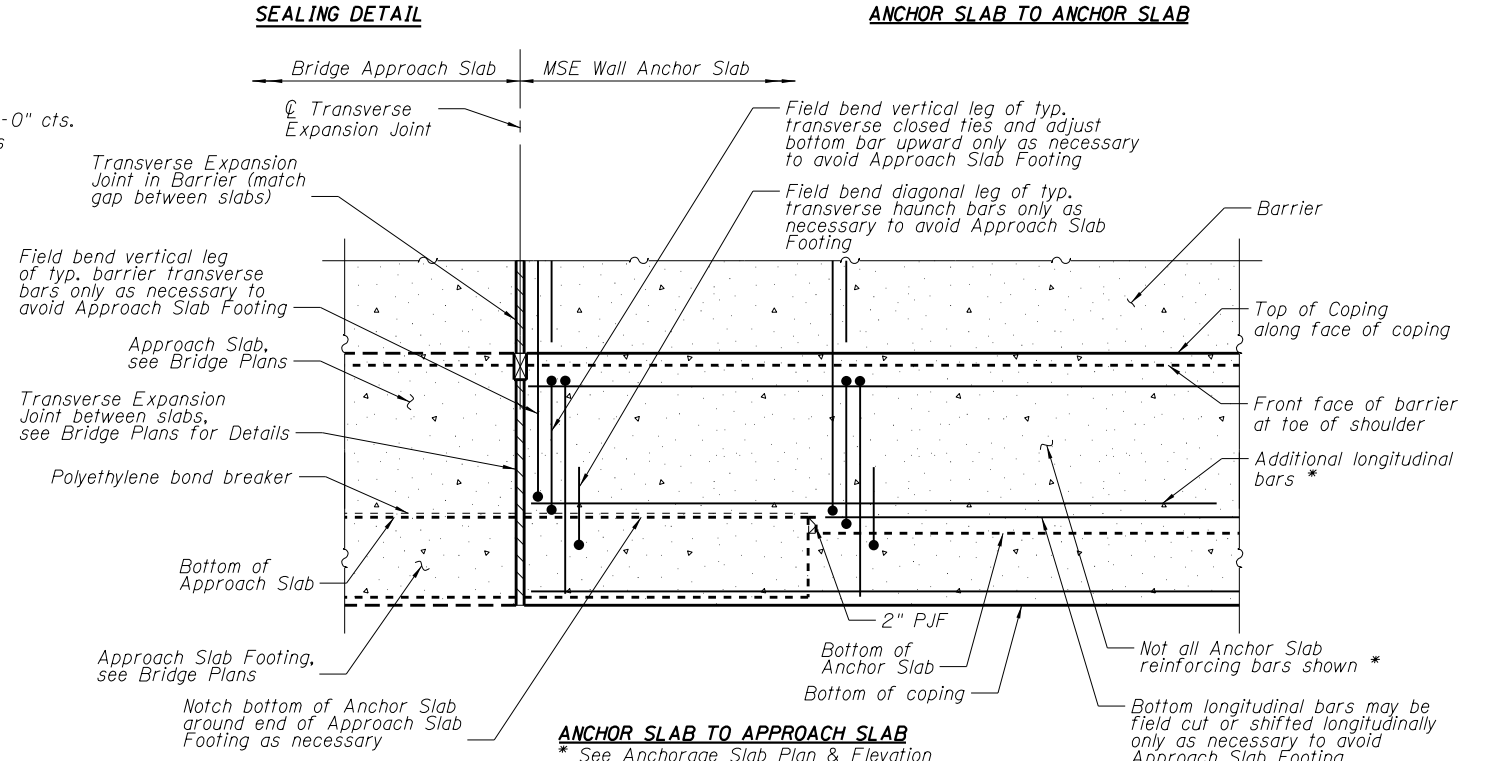
FILE NAME = 0220560-60Y95-007-AnchSlabBarrDet1.dgn	USER NAME = asantiag	DESIGNED - EJM	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ANCHORAGE SLAB & BARRIER DETAILS No. 1 STRUCTURE NO. 022-0560	F.A.P. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CH2MHILL	PLOT SCALE = 80.0008' / in.	CHECKED - JLT	REVISD -			345	2013-083-R&B	DUPAGE	759	615	
PLOT DATE = 10/28/2014	DRAWN - EJM	CHECKED - JLT	REVISD -			DRAWING NO. SU-07 CONTRACT NO. 60Y95					
						SHEET NO. 07 OF 13 SHEETS					



TRANSVERSE CONTRACTION JOINT

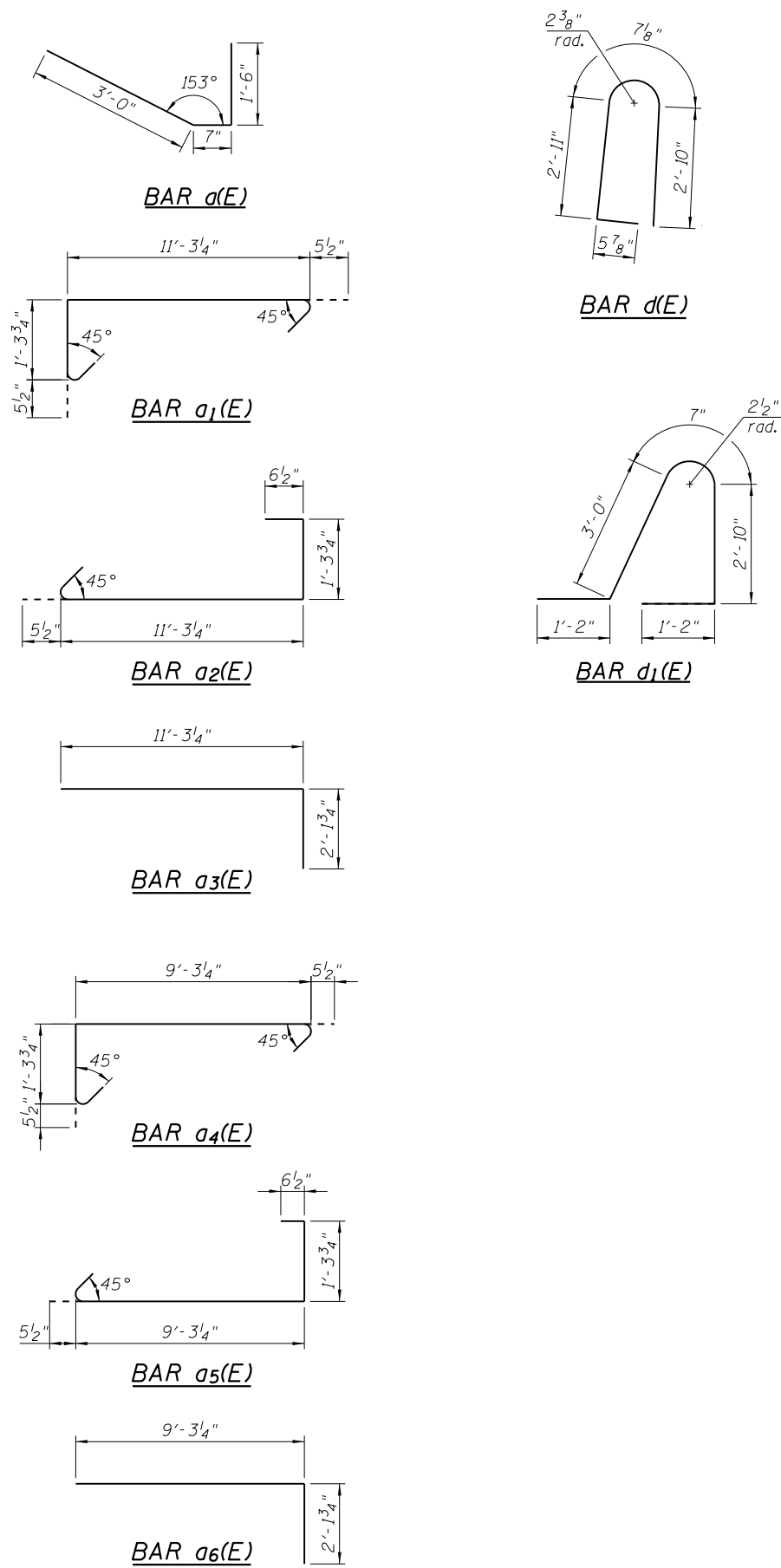


LONGITUDINAL CONSTRUCTION JOINT



TRANSVERSE EXPANSION JOINT

- Notes:**
1. Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, use T with a backer rod.
 2. 1/2" Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of Std. Spec.
 3. Dowel bars and tie bars are not included in Bill of Materials. Cost included in Concrete Superstructure.
 4. Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.

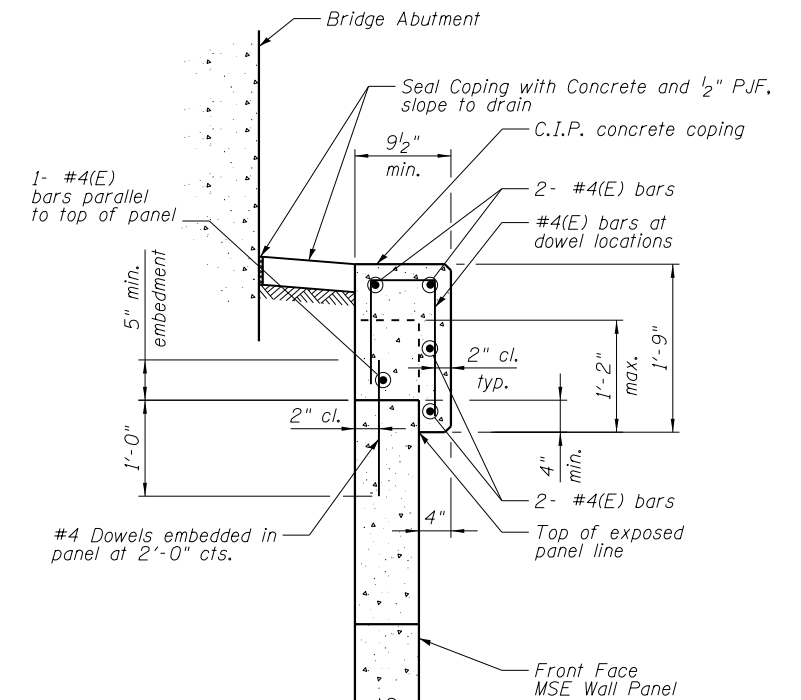
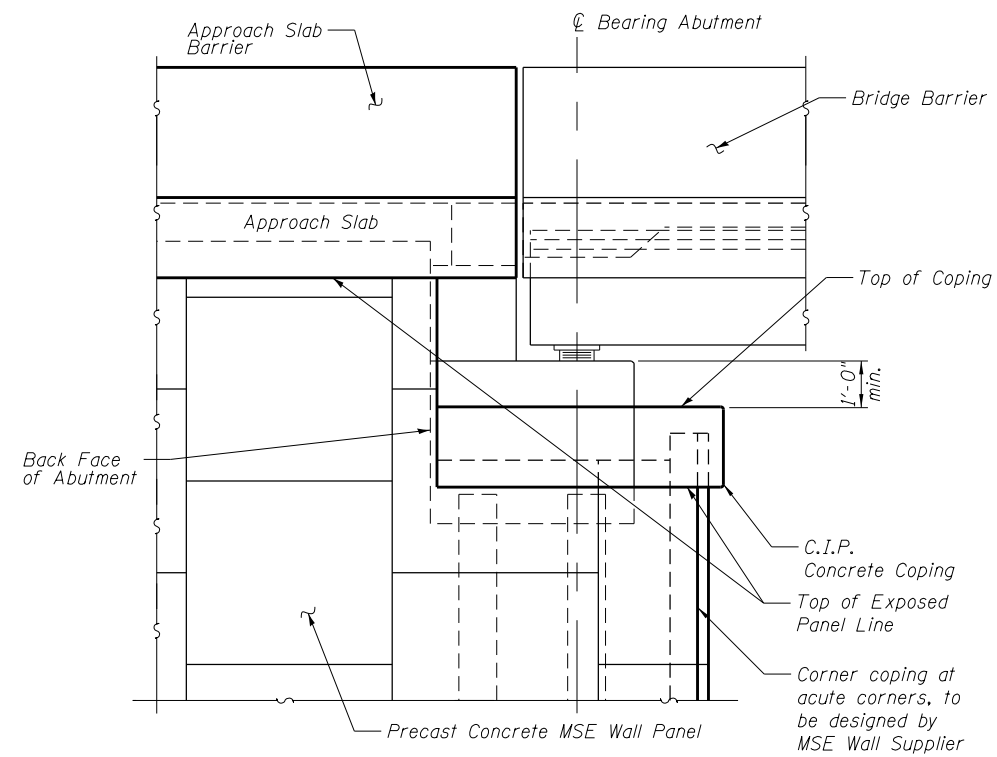


BAR DETAILS

ANCHOR SLAB BILL OF MATERIAL				
BAR	No.	SIZE	LENGTH	SHAPE
a(E)	214	4	5'-1"	
a1(E)	168	5	13'-6"	
a2(E)	168	5	13'-7"	
a3(E)	188	5	13'-5"	
a4(E)	109	5	11'-6"	
a5(E)	109	5	11'-7"	
a6(E)	68	5	11'-5"	
a7(E)	32	6	5'-2"	
b(E)	168	6	26'-8"	
b1(E)	18	4	25'-11"	
b2(E)	48	7	25'-7"	
b3(E)	6	4	24'-5"	
b4(E)	16	7	15'-0"	
b5(E)	11	6	10'-0"	
b6(E)	9	7	10'-0"	
d(E)	260	5	6'-10"	
d1(E)	272	5	8'-9"	
e(E)	64	4	17'-11"	
e1(E)	8	8	17'-11"	
e2(E)	24	4	15'-2"	
e3(E)	3	8	15'-2"	
DESCRIPTION	UNIT	QUANTITY		
Concrete Superstructure	CU YD	174.9		
Reinforcement Bars, Epoxy Coated	POUND	28120		
Protective Coat	SQ YD	301		

Note:

- Reinforcing bars in C.I.P. coping (except anchor slab coping) to be designed by MSE Wall Supplier and not included in Bill of Materials. Cost included in Mechanically Stabilized Earth Retaining Wall.



FILE NAME = 0220560-60Y95-009-AnchSlabBarrDet3.dgn	USER NAME = asantiag	DESIGNED - EJM	REVISED -
CH2MHILL	PLOT SCALE = 2.6667' / in.	CHECKED - JLT	REVISED -
	PLOT DATE = 10/28/2014	DRAWN - EJM	REVISED -
		CHECKED - JLT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB & BARRIER DETAILS No. 3
STRUCTURE NO. 022-0560

SHEET NO. 09 OF 13 SHEETS

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 617
DRAWING NO. SU-09		CONTRACT NO. 60Y95		
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 2

Date 10/8/13

EVEREST ENGINEERING COMPANY

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-217, Ramp G1 LOGGED BY M. Baig

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3'

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0560
Station 119+80 to 121+47.75
BORING NO. R-217-RWB-01
Station 121+48.18
Offset 23.3 ft RT.
Northing 1,938,503.08
Easting 1,068,086.47
Ground Surface Elev. 702.1 ft

DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)
701.1							
5				3			
5	4.0	16		4	2.5	21	
5	P			6	B		
3				3			
4	4.5	18		4	3.1	21	
5	S			7	B		
2				4			
2	2.1	20		6	3.2	20	
4	B			9	B		
694.1							
3				2			
4	2.2	18		4	2.7	21	
6	B			7	B		
2				5			
3	2.6	19		6	3.1	21	
5	B			8	B		
669.1							
3				3			
4	3.0	17		5	2.4	16	
6	B			7	B		
3				6			
5	2.9	16		9	4.0	16	
6	B			1	B		
664.1							
3				5			
3	2.7	16		7	0.8	18	
4	B			8	B		

TOPSOIL

Very Stiff to Hard, Brown and Gray CLAY trace - gravel

Grain Size LL=43, PI=22, A-7-6(19)

Gray below 8 feet

Very Stiff to Hard, Gray SILTY CLAY trace - gravel

Medium Dense, Gray SILTY LOAM little - gravel Grain Size LL=43, PI=22, A-4(3)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

Page 2 of 2

Date 10/8/13

EVEREST ENGINEERING COMPANY

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-217, Ramp G1 LOGGED BY M. Baig

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3'

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0560
Station 119+80 to 121+47.75
BORING NO. R-217-RWB-01
Station 121+48.18
Offset 23.3 ft RT.
Northing 1,938,503.08
Easting 1,068,086.47
Ground Surface Elev. 702.1 ft

DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)
661.6							
5				5			
5	2.7	20		5	2.7	20	
6	B			6	B		
2-inch sand layer at 42 feet							
10				10			
2 - inch gravel layer at 44.2 feet				10	4.1	19	
8				8	B		
8				8			
13	4.7	24		13	4.7	24	
14	B			14	B		
653.6							
7				7			
12				12			
12				12			
652.1				4			
4				4			
END OF BORING							
-60							

Very Stiff to Hard, Gray SILTY CLAY trace - gravel

2-inch sand layer at 42 feet

2 - inch gravel layer at 44.2 feet

Medium Dense, Brown and Gray SAND trace - gravel

END OF BORING

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Note: The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

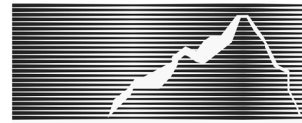
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EVEREST ENGINEERING COMPANY	PLOT DATE = 10/28/2014	DRAWN - KV	REVISED -
		CHECKED - IA	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS No. 1 STRUCTURE NO. 022-0560

SHEET NO. 10 OF 13 SHEETS

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 618
DRAWING NO. SU-10		CONTRACT NO. 60Y95		
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

EVEREST ENGINEERING COMPANY

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-217, Ramp G1 LOGGED BY M. Baig

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3'

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0560
Station 119+80 to 121+47.75
BORING NO. R-217-RWB-02
Station 120+98.31
Offset 23.4 ft RT.
Northing 1,938,548.74
Easting 1,068,106.55
Ground Surface Elev. 703.3 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	GROUNDWATER ELEV. (ft)	DEPTH (ft)	BLOW COUNT (blows/ft)	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)
702.3		TOPSOIL								
7	7	Stiff to Hard, Brown CLAY trace - gravel	17				3	5	3.3	14
	7		6.2				5	5	B	
	7		S				680.3			
		Grain Size LL=41, PI=22, A-7-6(18)						7		
	9		7.0				7	7	3.1	20
	12		B				-25	11	B	
	5							4		
	8		5.2				6	6	2.8	21
	11		B				10	10	B	
694.8	6	Brown and Gray from 8.5 to 13 feet						5		
	8		5.8				8	8	4.5	21
	12		B				-30	12	B	
	2							3		
	4		2.1				4	4	1.7	16
	4		B				5	5	B	
690.3		Gray below 13 feet								
	3							5		
	3		1.8				7	7	2.6	15
	4		B				-35	11	B	
687.8		Stiff to Very Stiff, Gray CLAY LOAM trace - gravel								
	3							5		
	3		1.7				8	8	2.4	19
	5		B				12	12	B	
		Grain Size LL=30, PI=14, A-6(8)							2.0	21
	2						10	10	P	
	4		1.9				15	15		
	3		B				10	10		5
664.3		Medium Dense, Gray SANDY GRAVEL								
		END OF BORING					663.3	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

EVEREST ENGINEERING COMPANY

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-217, Ramp G1 LOGGED BY M. Baig

ROUTE Elgin O'Hare (IL 390) SECTION LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3'

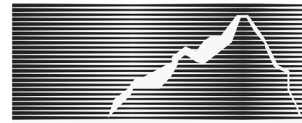
COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 022-0560
Station 119+80 to 121+47.75
BORING NO. R-217-RWB-03
Station 120+55.67
Offset 18.3 ft RT.
Northing 1,938,585.69
Easting 1,068,128.44
Ground Surface Elev. 700.5 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	GROUNDWATER ELEV. (ft)	DEPTH (ft)	BLOW COUNT (blows/ft)	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)
699.9		TOPSOIL								
	3	Stiff to Hard, Brown and Gray CLAY trace - gravel	17				4	5	2.4	22
	5		4.5+				7	7	B	
	6		P							
		Grain Size LL=41, PI=22, A-7-6(18)						4		
	7		3.7				5	5	2.3	19
	7		S				-25	7	B	
	5							2		
	6		4.5				3	3	1.7	24
	9		B				5	5	B	
692.0		Gray below 8.5 feet								
	2						3			
	4		2.2				4	4	1.8	23
	5		B				-30	5	B	
	2							3		
	4		2.2				4	4	1.1	19
	6		B				5	5	B	
	2							4		
	4		1.8				5	5	1.6	18
	5		B				-35	5	B	
665.0		Medium Dense, Gray SAND								
	3							4		12
664.0		Very Stiff, Gray CLAY						7	2.1	17
	4		2.2				5	5	B	
	5		B							
	4							4		
	5		3.9				5	5	2.1	14
	8		B				-40	5	B	
660.5		END OF BORING								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Note: The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.



SOIL BORING LOG

Page 1 of 1

Date 10/9/13

EVEREST ENGINEERING COMPANY

CONTRACT I-11-4031 DESCRIPTION Retaining Wall R-217, Ramp G1 LOGGED BY M. Baig

ROUTE Elgin O'Hare (IL 390) SECTION _____ LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3'

COUNTY DuPage DRILLING METHOD Geoprobe Sampler HAMMER TYPE Equal Slide Hammer

STRUCT. NO. 022-0560
 Station 119+80 to 121+47.75
 BORING NO. R-217-RWB-04
 Station 119+88.42
 Offset 22.7 ft RT.
 Northing 1,938,649.00
 Easting 1,068,151.57
 Ground Surface Elev. 697.8 ft (ft) (/6") (tsf) (%)

DEPTH (ft)	LOW	UCS	MOIST	REMARKS
697.3				TOPSOIL
697.3 - 692.3		3.0 P	17	Very Stiff To Hard, Black CLAY trace - gravel
692.3 - 687.3		4.5+ P	18	Grain Size LL=61, PI=38, A-7-6(37)
687.3 - 685.3		4.25 P	18	Brown and Gray below 5.5 feet
685.3 - 683.8		4.0 P	19	
683.8 - 683.8		4.0 P	16	2-inch silty loam layer at 9 feet
683.8 - 683.3				Medium Dense, Brown and Gray SANDY LOAM
683.3 - 683.8			10	Grain Size LL=22, PI=5, A-4(0)
683.8 - 683.8			14	Medium Dense, Brown and Gray SAND
683.8				END OF BORING

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

LOG OF SUBSURFACE DATA

CLIENT: **Illinois State Toll Highway Authority**
 PROJECT: **I-11-4031, Elgin O'Hare Western Bypass**
 LOCATION: **Ramp G1** SEC.: **6 (NW 1/4)** TWP.: **40N** RNG.: **11E PM.: 3'**
 COUNTY: **DuPage**
 BORING NO.: **G1-SGB-06** SURFACE ELEV.: **701.5**
 JOB NO.: **1227** STATION: **120+67.38** NORTH: **1,938,558.28**
 LOGGED BY: **E. Slusser** OFFSET: **23.0 ft LT.** EAST: **1,068,161.53** SHEET **1** OF **1**

SCALE	DEPTH ELEV (FT)	SOIL DESCRIPTION	LITHOLOGY	Water Level	SAMPLE TYPE & No.	SCALE	SPT (Blows/6")	RECOVERY (Inches)	q _u (tsf)	γ _d (pcf)	w (%)	REMARKS
	0.5	TOPSOIL										
	701.0	Very Stiff to Hard, Brown and Black SILTY CLAY trace - gravel, organics Brown and Gray from 1 to 6 feet	SS-1	x	x	x	3-5-6	12	4.1	22	22	Grain Size LL=40, PI=20 A-6(16)
	1.0											
	700.5											
5	6.0	Brown below 6 feet	SS-2	x	x	x	4-7-7	18	3.9	19	19	
	695.5											
	8.0											
	693.5	Stiff to Very Stiff, Gray CLAY trace - gravel Sand partings at 9.1 and 9.2 feet	SS-3	x	x	x	3-6-8	18	3.8	18	18	
10	10.0											
	10.0											
	15.0	Sand partings at 13.8, 14.2 and 14.4 feet	SS-4	x	x	x	3-3-6	12	2.5	17	17	
	15.0											
	15.0											
	15.0		SS-5	x	x	x	2-3-5	18	2.5	16	16	
15	15.0											
	15.0											
	15.0		SS-6	x	x	x	3-3-4	12	2.0	15	15	
	15.0											
	15.0											
	15.0		SS-7	x	x	x	3-4-5	12	2.4	18	18	
20	15.0											
	15.0											
	20.0		SS-8	x	x	x	2-3-5	18	2.7	20	20	
	20.0											
	20.0											
	20.0		SS-9	x	x	x	3-4-7	18	1.8	21	21	
25	20.0											
	20.0											
	25.0		SS-10	x	x	x	4-5-10	18	2.9	24	24	
	25.0											
	25.0											
	25.0		SS-11	x	x	x	4-5-8	18	2.8	17	17	
30	25.0											
	25.0											
	30.0	END OF BORING	SS-12	x	x	x	5-7-10	18	2.7	21	21	
	30.0											
	671.5											

DRILLED BY: **R. Thomasson (Geo Services, Inc.)**
 DRILL RIG: **Diedrich D-50 Track Mounted**
 HAMMER TYPE: **Automatic** DRILLING METHOD: **Hollow Stem Auger**
 BORING STARTED: **May 13, 2013** BORING COMPLETED: **May 13, 2013**
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL	
▽	15' DURING DRILLING
▽	10' AT COMPLETION
▽	AFTER COMPLETION

Note: The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

FILE NAME	USER NAME	DESIGNED	REVISED
0220560-60Y95-010to013-BoringLogs.dgn	asantiag	-	-
		CHECKED -	REVISED -
		DRAWN - KV	REVISED -
		CHECKED - IA	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS No. 3
 STRUCTURE NO. 022-0560

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	620
DRAWING NO. SU-12		CONTRACT NO. 60Y95		

SHEET NO. 12 OF 13 SHEETS

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

EVEREST ENGINEERING COMPANY

CONTRACT 1-11-4031 DESCRIPTION Bridge B-34, Ramp G1 over Ramp G7 LOGGED BY E. Slusser

ROUTE Elgin O'Hare (IL390) SECTION LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3"

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

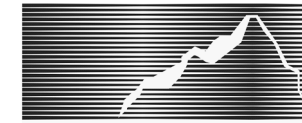
STRUCT. NO. 1628
Station 122+08.80
BORING NO. B-34-BSB-01
Station 121+48.51
Offset 10.4 ft LT.
Northing 1,938,489.14
Easting 1,068,117.24
Ground Surface Elev. 699.5 ft

DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)
699.2							
2				2			
3	3.7	20		3	2.5	16	
3	B			5	B		
2				4			
3	2.5	21		6	2.3	20	
5	B			8	B		
2				4			
4	2.5	21		6	2.9	19	
7	B			7	B		
691.5							
2				2			
4	2.1	18		3	2.7	21	
6	B			4	B		
2				5			
4	2.2	19		8	3.5	20	
5	B			9	B		
1				4			
4	3.0	17		7	2.6	19	
6	B			9	B		
2							
4	2.9	19		5			
5	B						
2				5			
3	1.6	17		8	4.0	14	
4	B			11	B		
-20				-40			

TOPSOIL
Very Stiff, Black, Brown and Gray SILTY CLAY
trace - organics, gravel
Stiff to Hard, Gray CLAY
trace - gravel

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 651.0 ft
Upon Completion 684.5 ft
After 24 Hrs. 682.5 ft

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

EVEREST ENGINEERING COMPANY

CONTRACT 1-11-4031 DESCRIPTION Bridge B-34, Ramp G1 over Ramp G7 LOGGED BY E. Slusser

ROUTE Elgin O'Hare (IL390) SECTION LOCATION NW 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3"

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 1628
Station 122+08.80
BORING NO. B-34-BSB-01
Station 121+48.51
Offset 10.4 ft LT.
Northing 1,938,489.14
Easting 1,068,117.24
Ground Surface Elev. 699.5 ft

DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS (tsf)	MOIST (%)
699.5							
8				15			
13	5.6	20		27		13	
18	B			30			
2				12			
4				16		14	
6				18			
5				13			
6				26		10	
9				29			
7				8			
8				3		19	
10				26			
-60				-80			

Stiff to Hard, Gray CLAY
trace - gravel(continued)
Medium Dense to Very Dense, Gray
Fine to Coarse SAND
trace to little - gravel

652.5

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

END OF BORING 619.5

Note: The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

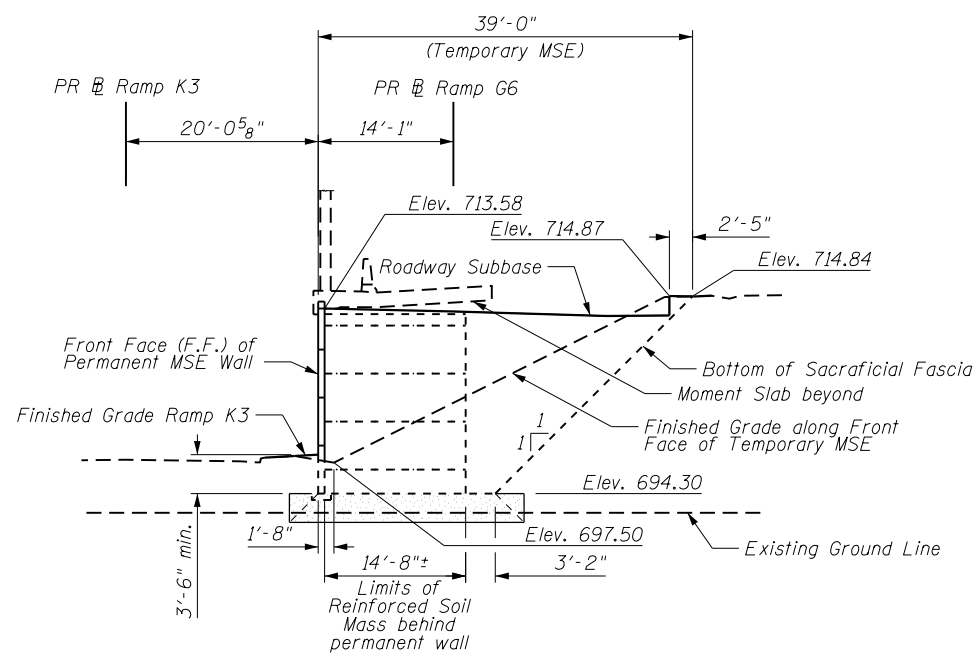
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915 WEST LIBERTY DRIVE WHEATON, IL 60157 (830) 462-9797	PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
EVEREST ENGINEERING COMPANY	PLOT DATE = 10/28/2014	DRAWN - KV	REVISED -
		CHECKED - IA	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

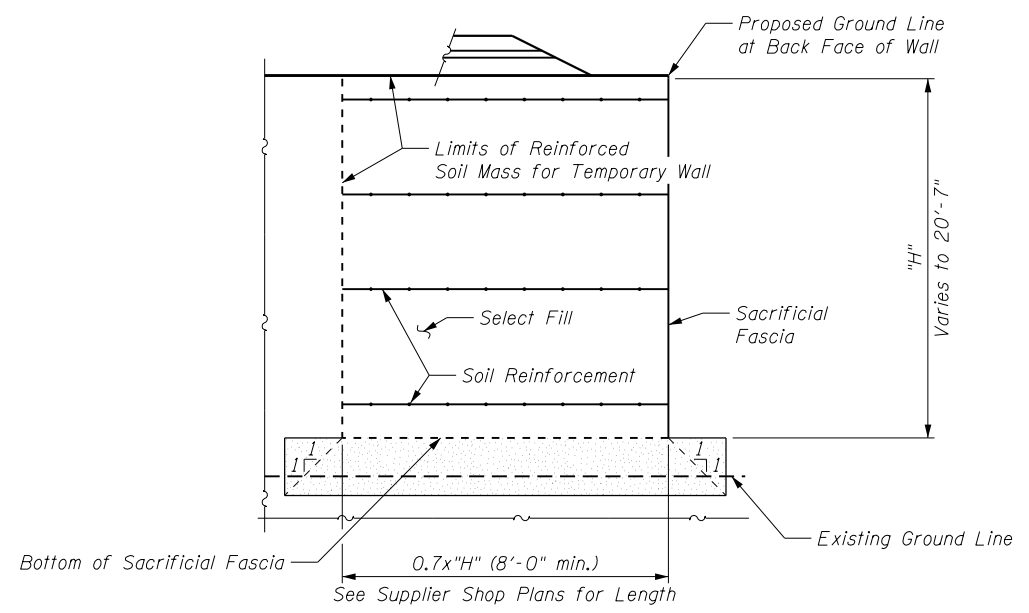
SOIL BORING LOGS No. 4 STRUCTURE NO. 022-0560

SHEET NO. 13 OF 13 SHEETS

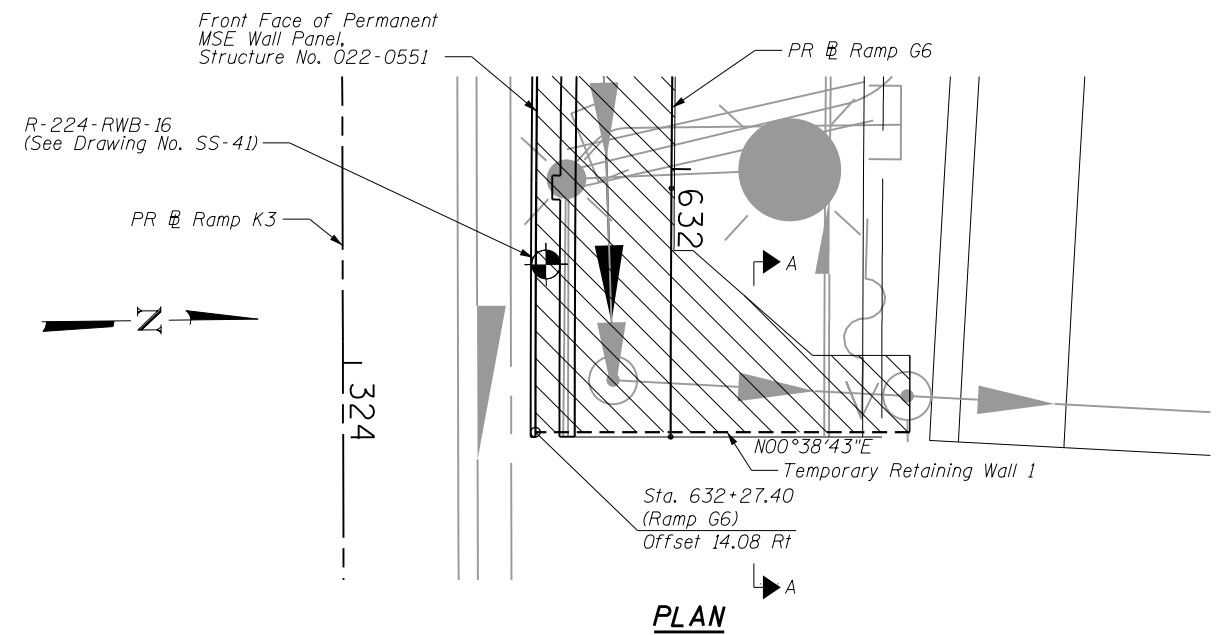
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DRAWING NO. SU-13		CONTRACT NO. 60Y95		
ILLINOIS FED. AID PROJECT				



ELEVATION



**TYPICAL SECTION
TEMPORARY MSE
(SECTION A-A)**






PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications,
6th Edition with 2013 Interims
Illinois Department of Transportation
Bridge Manual, January 2012

LEGEND

-  Limits of reinforced Soil Mass
-  Indicates Granular Backfill for Structures, see Drawing No. SS-02
-  Soil Boring

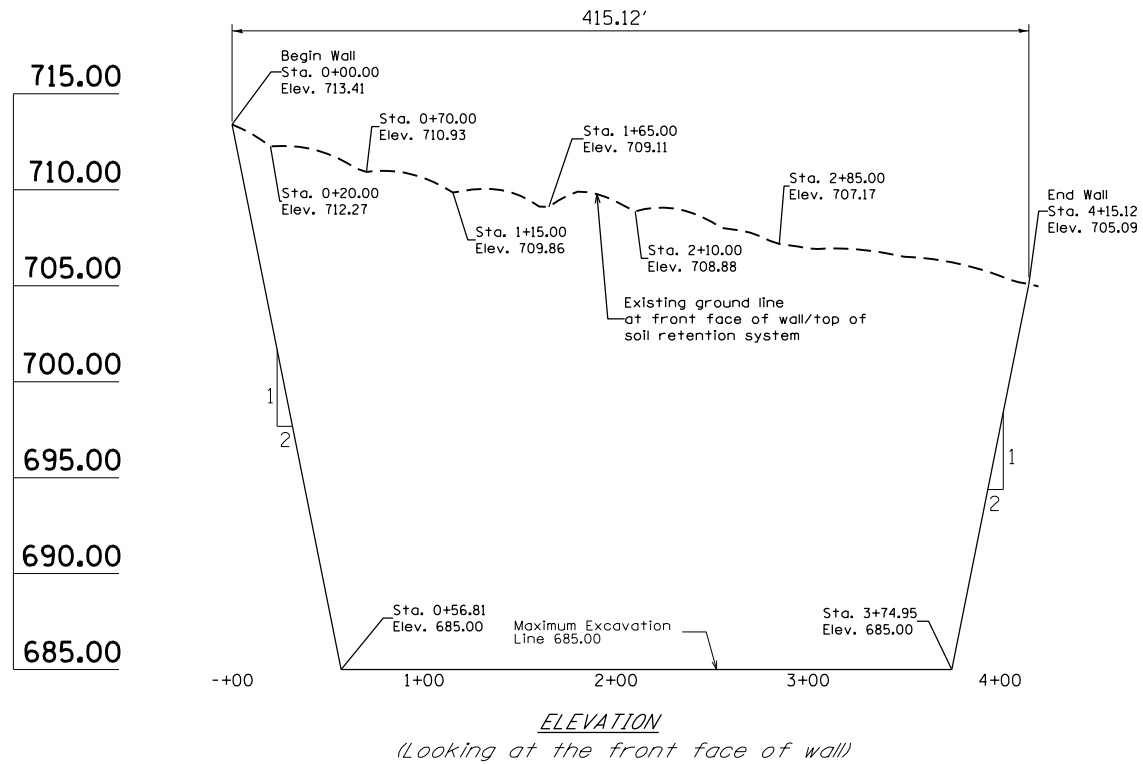
TOTAL BILL OF MATERIALS

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
X0323149	Temporary Mechanically Stabilized Earth Retaining Wall	SQ FT	555

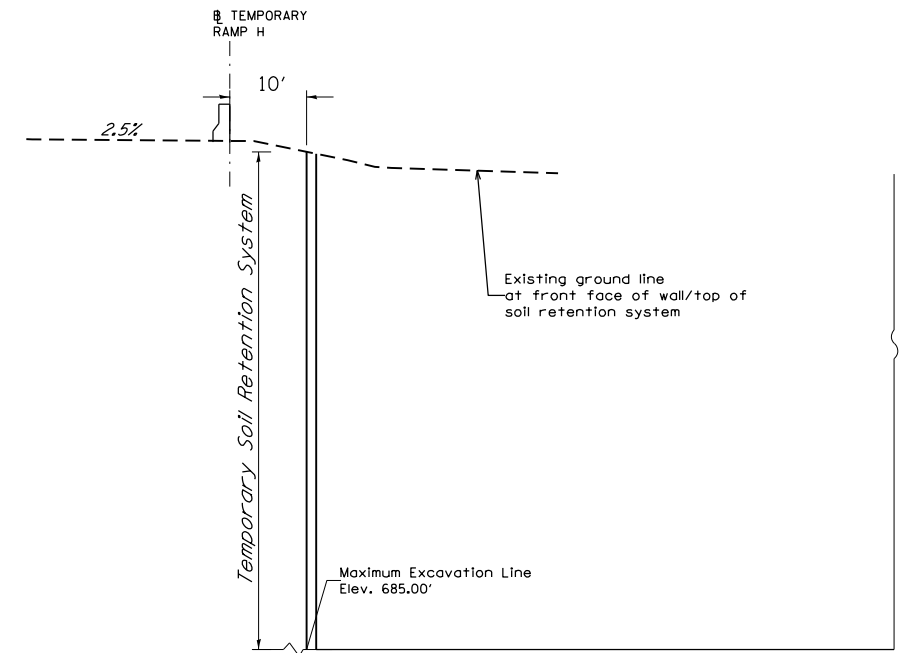


Jeffrey S. Aldrich
Jeffrey S. Aldrich
Licensed Structural Engineer
State of Illinois No. 081-007301
Expires 11/30/2016

(Temporary Soil Retention System,
Measured along front face of wall)

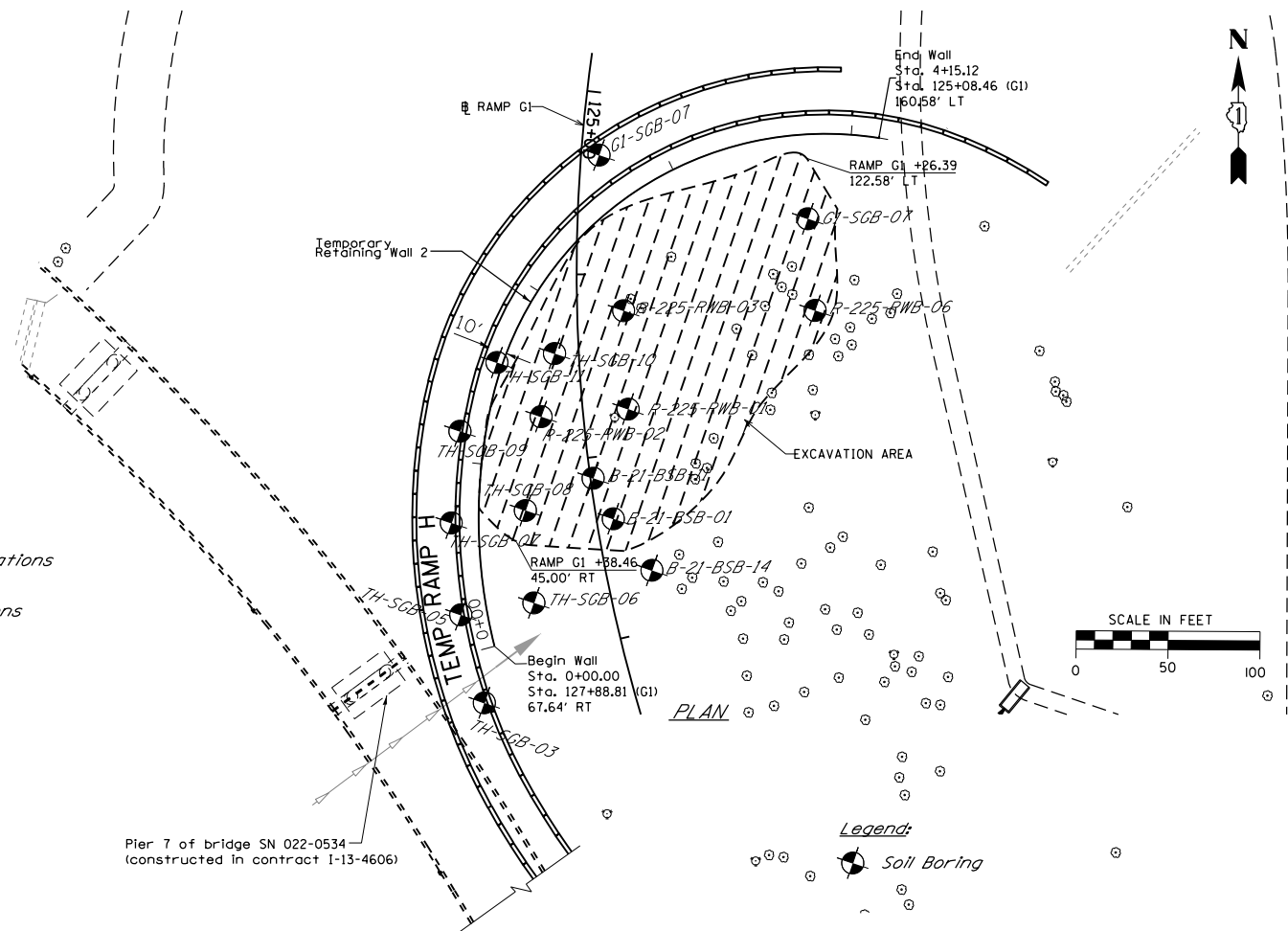


ELEVATION
(Looking at the front face of wall)



**TYPICAL SECTION TEMPORARY
SOIL RETENTION SYSTEM**

- Notes:
1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
 2. Logs of borings shown are included in the Roadway Geotechnical Report.
 3. Design the temporary soil retention system to protect existing Temporary Ramp H and the pier 7 of SN 022-0534.



DESIGN SPECIFICATION HIERARCHY

Illinois Department of Transportation Guide Bridge Special Provisions (GBSP's),
Illinois Department of Transportation Supplemental Specifications and Recurring Special Provisions Adopted January 1, 2014,
Illinois Department of Transportation Standard Specifications for Road and Bridge Construction Adopted January 1, 2012.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition
Illinois Department of Transportation Bridge Manual, January 2014

TOTAL BILL OF MATERIAL

PAY ITEM NO.	ITEM	UNIT	Total	RECORD
20073002	Temporary Soil Retention System	Sq. Ft.	8,349	

FILE NAME = D:\60Y95-6a-sht-tempretention-01.dgn	USER NAME = asantiag	DESIGNED - SG	REVISED -
CH2MHILL		DRAWN - SG	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/18/2014	DATE - 07/07/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN & ELEVATION
TEMPORARY RETAINING WALL 2**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	623
DRAWING NO. TRW-2			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				

Bench Mark: BM#716. Cut square in the northwest end of bridge wall. Approximately 65 feet north of the centerline of Thorndale Ave. and 168 feet west of the centerline of I-290, approximately 12 feet west of bridge deck. Elevation: 731.40 (NAVD88).

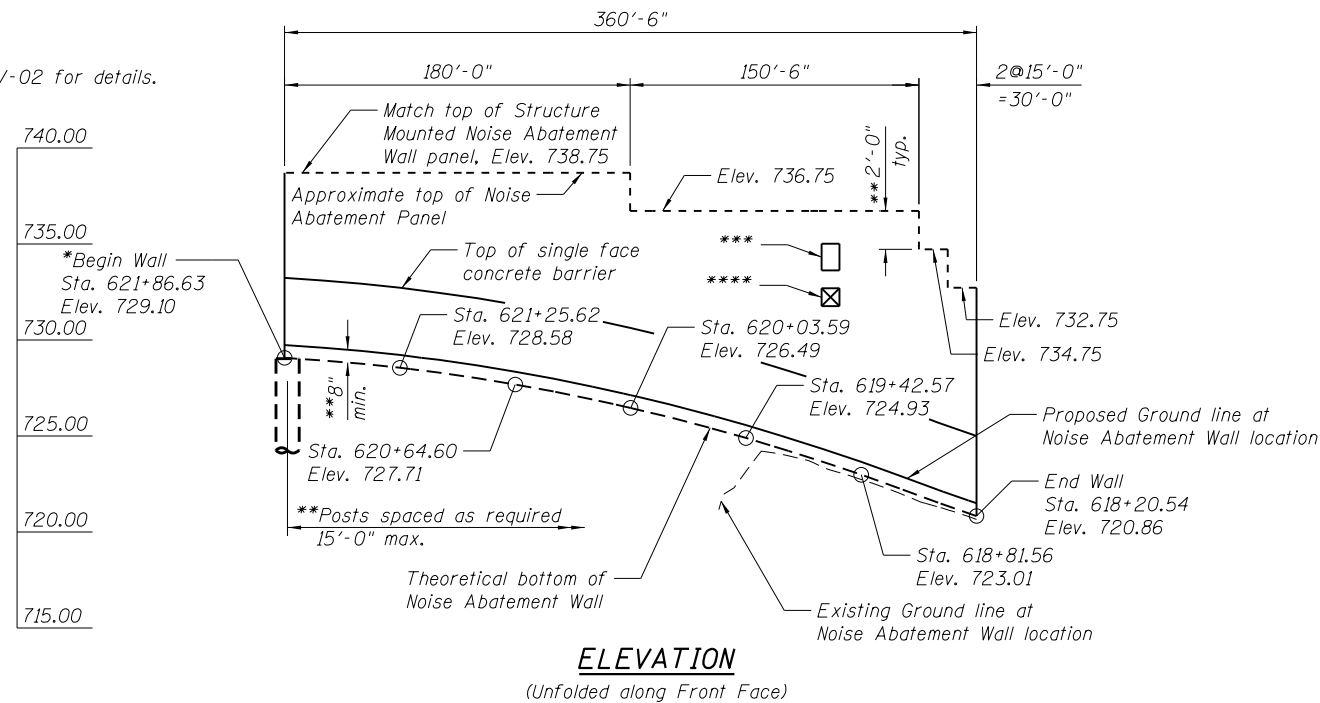
Existing Structure: None.

* Begin Wall station may be adjusted as necessary such that the centerline of post at beginning of wall matches centerline of Noise Abatement Closure Wall. See S.N. 022-0550 plans for Noise Abatement Closure Wall details.

** See Special Provisions.

*** Fire hydrant sign, each face. See sheet SV-02 for details.

**** Fire hydrant access door. See sheet SV-02 for details.



WALL ELEVATIONS

Station	Offset (Right)	Theoretical Bottom of wall	Proposed Ground Line Elev. at Front face
618+20.54	16.80'	720.86	721.53
618+81.56	16.80'	723.01	723.68
619+42.57	16.80'	724.93	725.59
620+03.59	16.80'	726.49	727.16
620+64.60	16.80'	727.71	728.38
621+25.62	16.80'	728.58	729.25
*621+86.63	16.80'	729.10	729.77

Offset measured from Ramp G6 to front face of wall.

INDEX OF SHEETS

- SV-01 General Plan & Elevation
- SV-02 General Data
- SV-03 - SV-04 Aesthetic Details
- SV-05 - SV-06 Soil Borings

LEGEND

- Existing Storm Sewer
- Proposed Storm Sewer
- Guardrail
- Light Pole
- Telephone Pole
- Telephone Splice Box
- Telephone Double Handhole
- Catch Basin
- Manhole
- Inlet
- Gas Line
- Fiber Optic
- Aerial Line
- Water Main
- Fence Line
- Soil Borings
- Access Control
- Electrical Line
- Proposed Roadway
- Existing Roadway
- Temporary Easement
- Permanent Easement
- Existing ROW
- Proposed ROW

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interim Revisions
Tollway Structure Design Manual, March 2014 with latest Tollway Design Bulletins
Illinois Department of Transportation Bridge Manual, January 2012
Tollway Geotechnical Engineer's Manual, March 2014

LOADING

Wind = 35 psf (Unfactored)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Acceleration Coefficient (A) = 0.043g
Site Coefficient (S) = 1.0

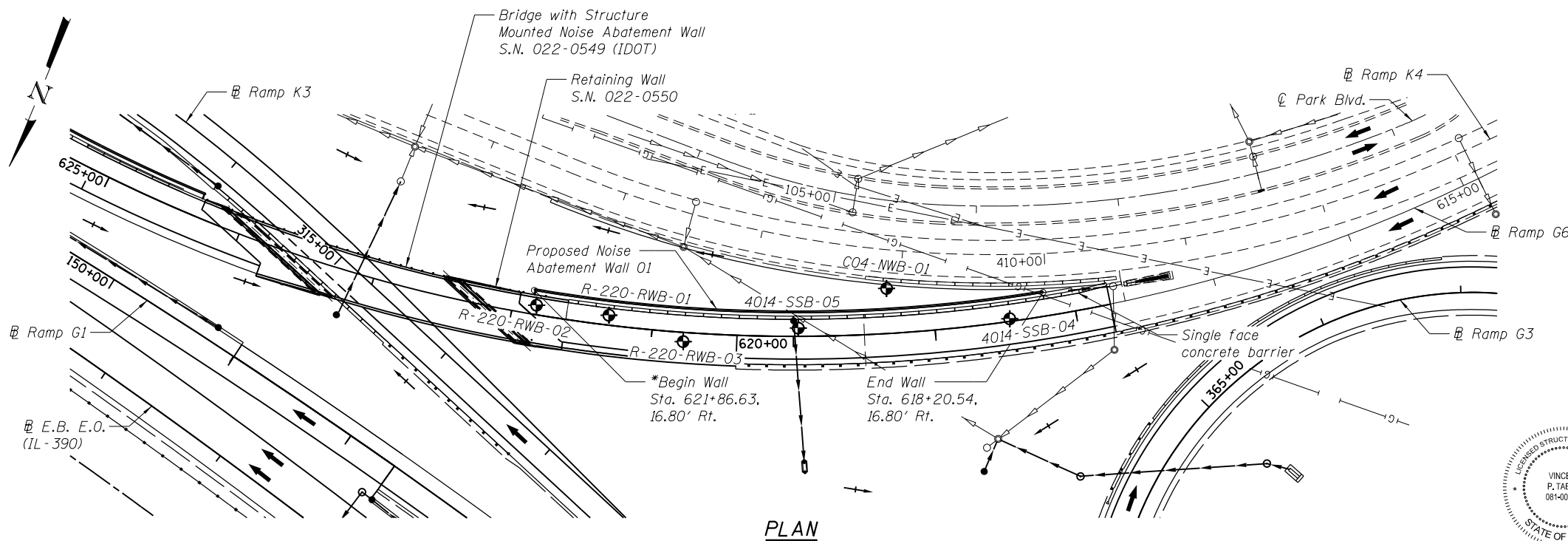
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel, M270 Grade 36)
fy = 50,000 psi (Structural Steel, M270 Grade 50)

PRECAST UNITS

f'c = 4,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Fabric)

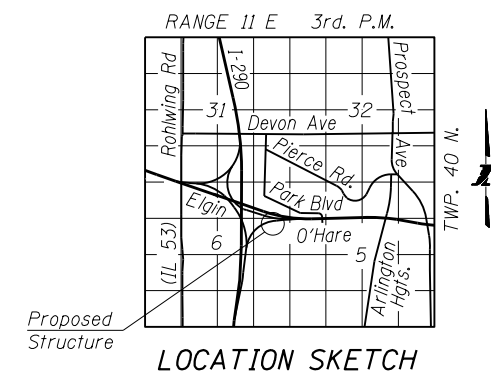


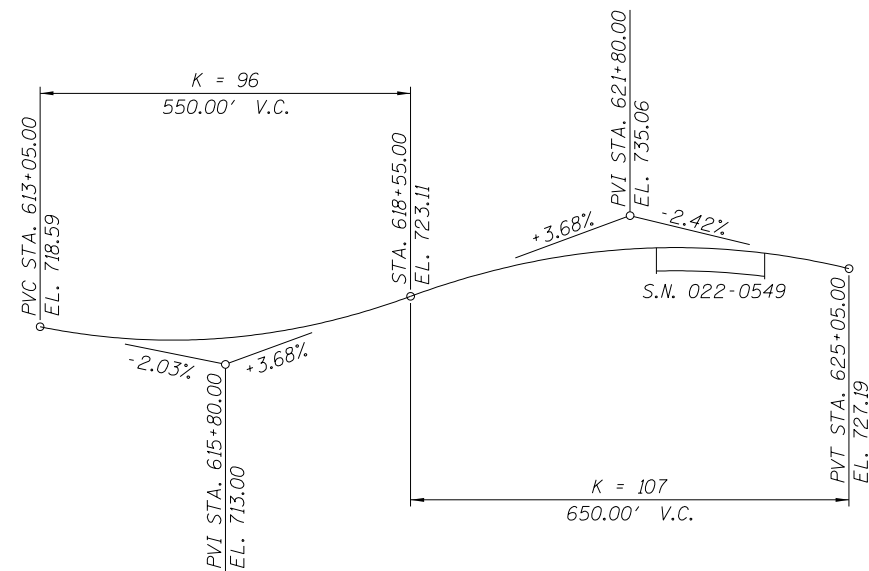
TOTAL BILL OF MATERIAL

PAY ITEM NO.	ITEM	UNIT	TOTAL	RECORD
72000100	Sign Panel - Type 1	Sq. Ft.	9	
X0301423	Noise Abatement Wall, Ground Mounted	Sq. Ft.	4156	
XXXXXXXX	Architectural Form Liner Leaf	Sq. Ft.	200	



Vincent P. Tabor 10/10/2014
Date
Vincent P. Tabor
Licensed Structural Engineer
State of Illinois No. 081-007047
Expires 11/30/2016





PROFILE GRADE
(Ramp G6)

CONSTRUCTION SPECIFICATIONS

Illinois Department of Transportation Guide Bridge Special Provisions (GBSP's)

Tollway Supplemental Specifications to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction Adopted January 1, 2012; Issued March, 2014

Illinois Department of Transportation Supplemental Specifications and Recurring Special Provisions Adopted January 1, 2015

Illinois Department of Transportation Standard Specifications for Road and Bridge Construction Adopted January 1, 2012

GENERAL NOTES

All reinforcement including the welded wire fabric shall be Epoxy Coated.

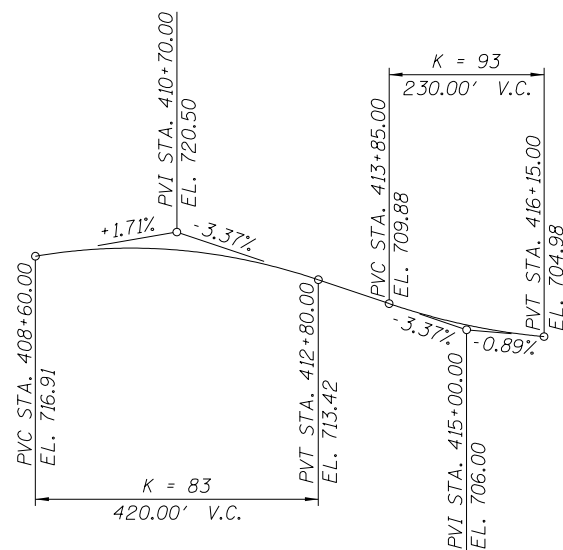
Welded wire fabric shall be according to AASHTO M 55.

The Contractor shall verify and consider the location of existing and proposed drainage structures, overhead and underground utilities prior to wall construction. Any damage to utilities to be repaired at the Contractor's expense.

Type, size and spacing of posts, noise wall panels, drilled shaft size and embedment length, reinforcement details, lifting bars and wall limits including top and bottom of wall shall be determined by the System Supplier. Cost included with Noise Abatement Wall, Ground Mounted. See Special Provisions.

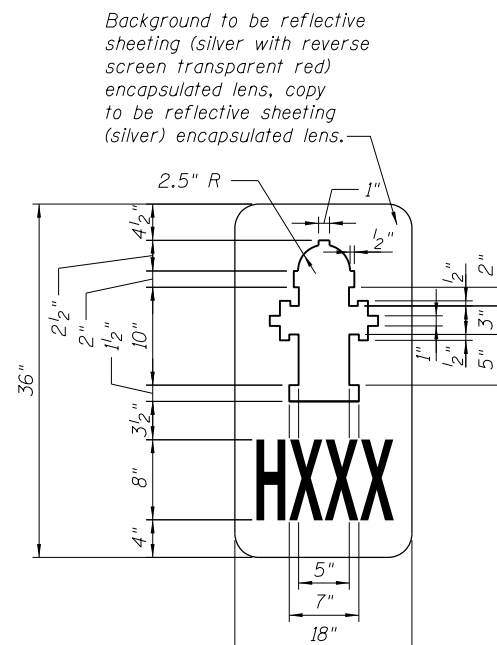
It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

It shall be the Contractor's responsibility to verify the location of all fiber optic utilities prior to starting construction. The Contractor shall initiate the location process for the fiber optic cable by completing a "Request Tollway Utilities Locate" form filled in online at the Tollway website under "Doing Business" at least four (4) business days prior to starting any underground operations, excavations or digging of any type in the general area of the fiber optic cable.

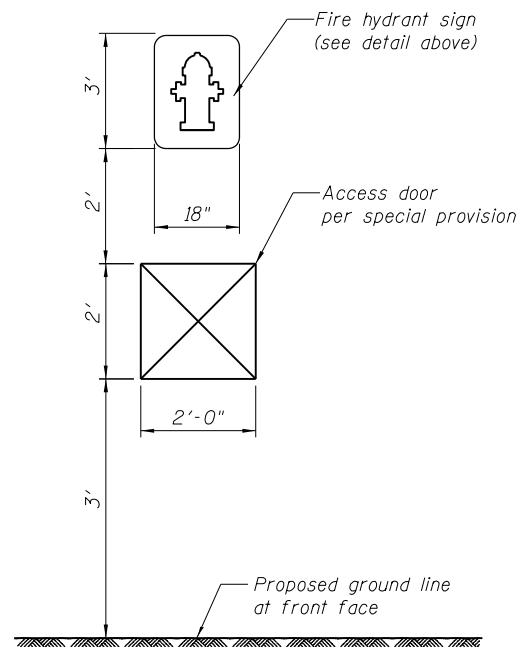


PROFILE GRADE
(Ramp K4)

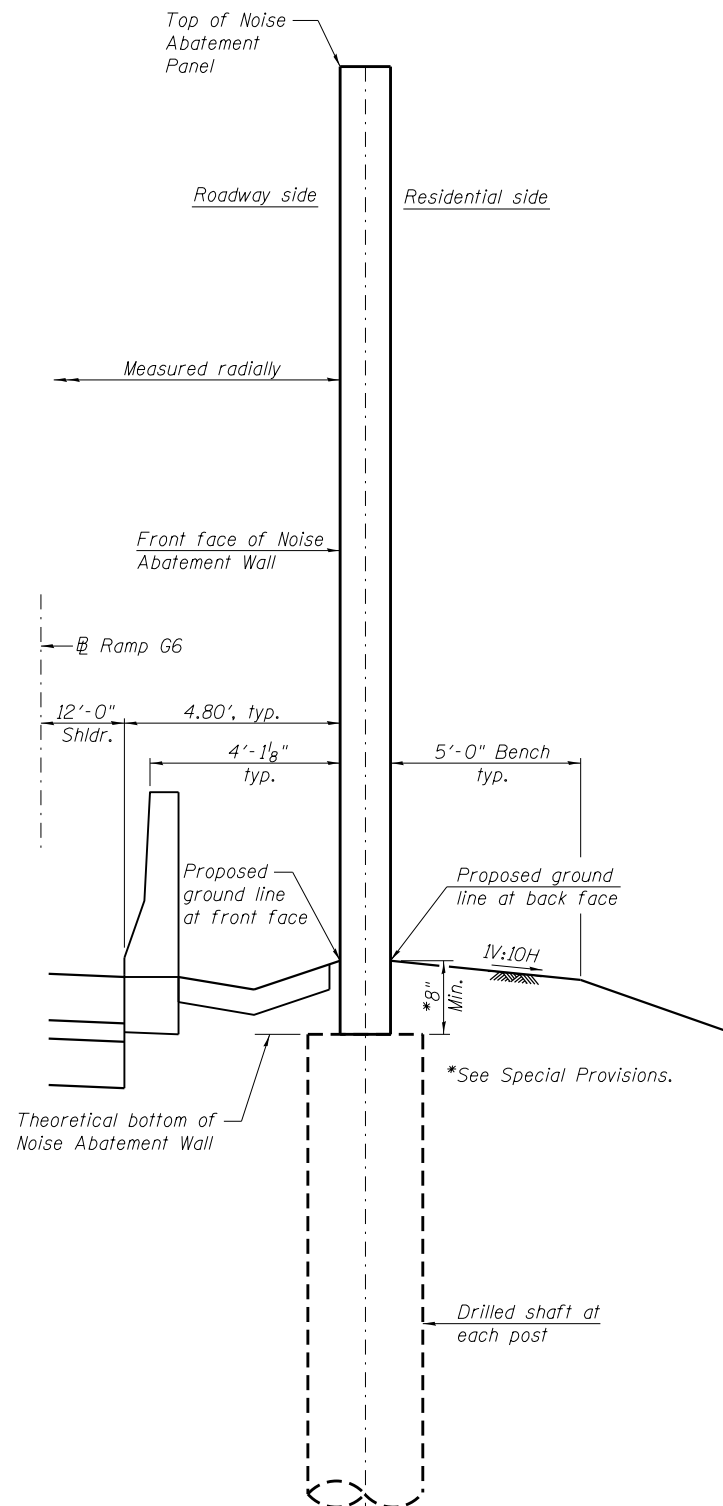
Signs shall be fastened to each face of wall with 4 - 3/8" diameter all-threaded rod conforming to ASTM A307, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 3".



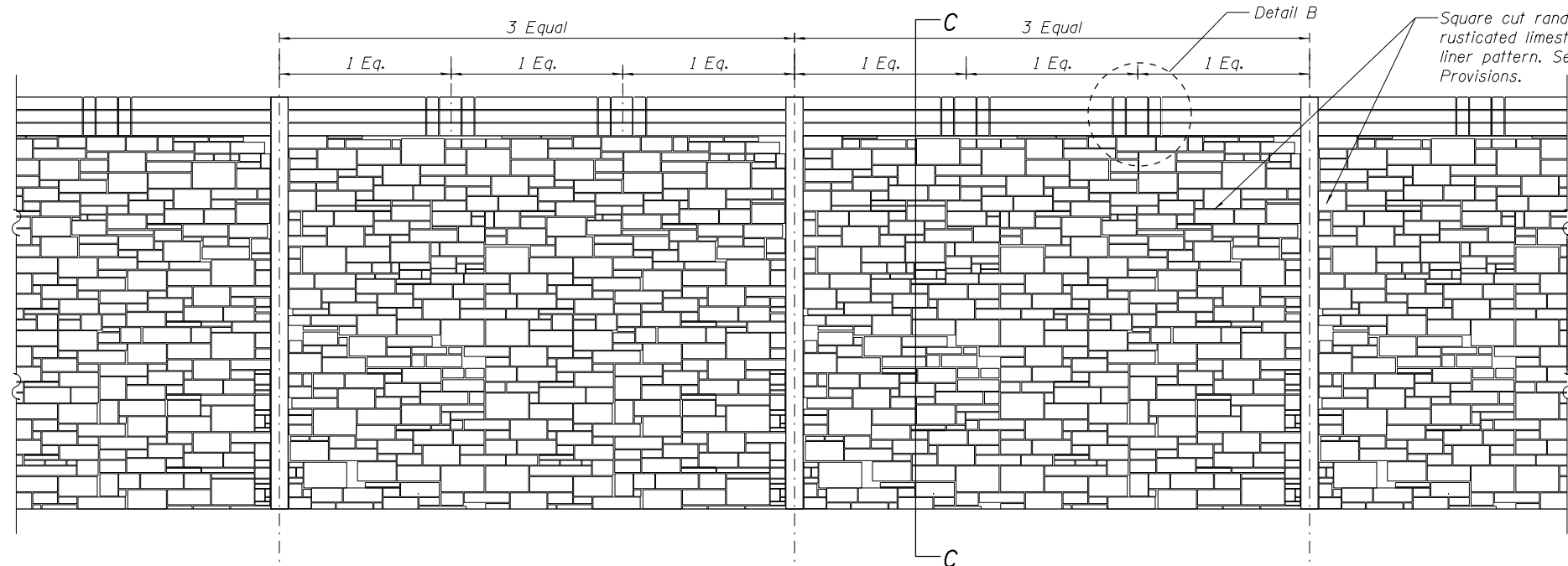
FIRE HYDRANT ACCESS DOOR SIGN DETAIL



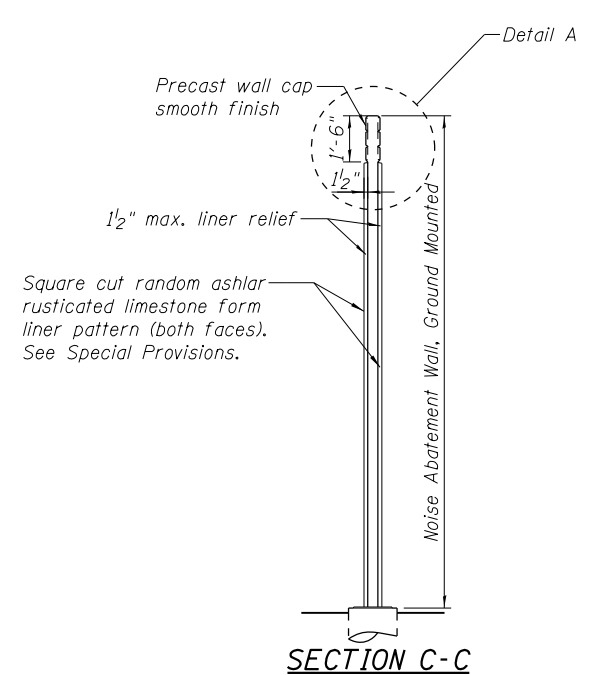
ACCESS DOOR DETAIL



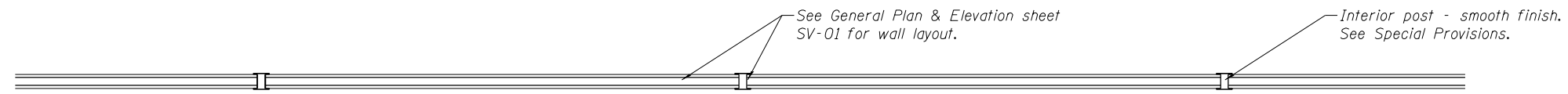
TYPICAL CROSS SECTION
(Adjacent to shoulder)



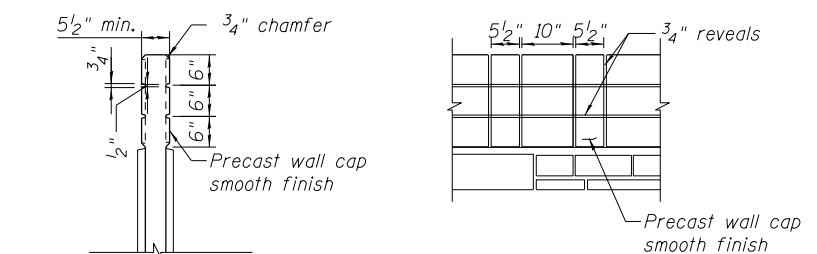
PARTIAL NOISE ABATEMENT WALL ELEVATION



SECTION C-C TYPICAL SECTION THRU NOISE WALL

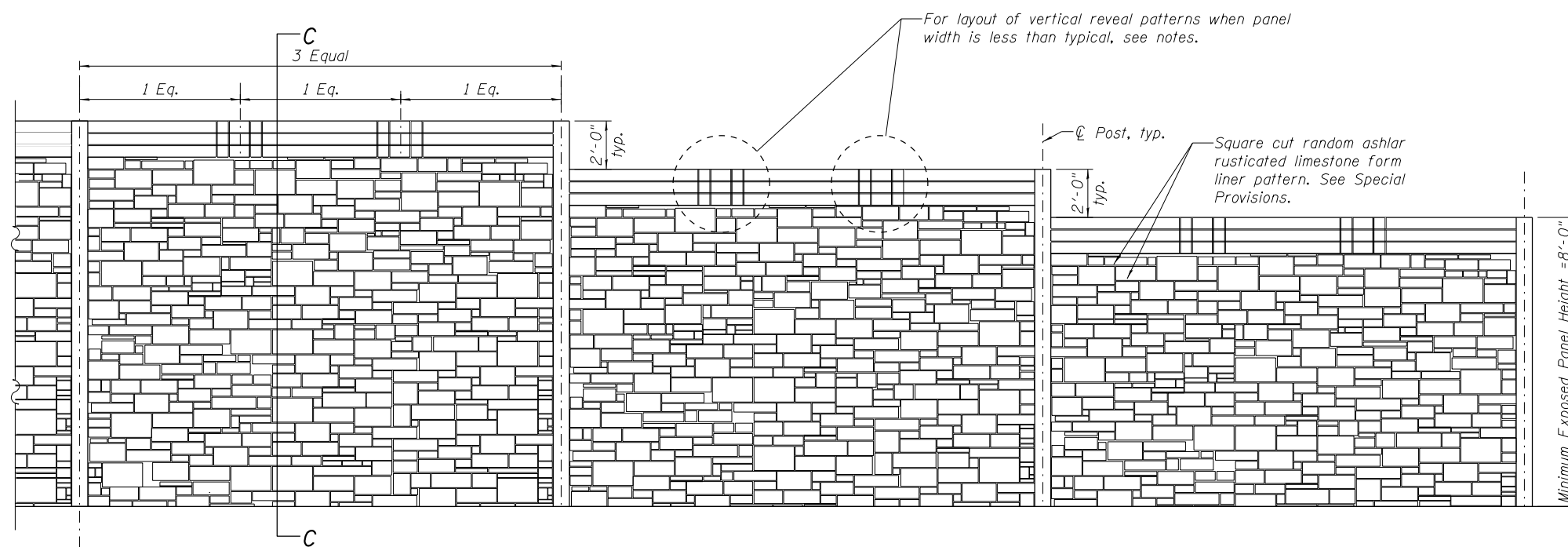


PARTIAL NOISE ABATEMENT WALL PLAN



DETAIL A ENLARGED CAP SECTION DETAIL

DETAIL B ENLARGED CAP DETAIL OF VERTICAL REVEAL PATTERN



PARTIAL NOISE ABATEMENT WALL ELEVATION AT FREE END

GENERAL ARCHITECTURAL NOTES:

When the panel width is less than 12'-0", only one vertical reveal image shall be applied to that particular panel to maintain the desired appearance.

When the panel width is less than 1/3 the width of a typical panel, no vertical reveal image shall be applied to that particular panel cap.

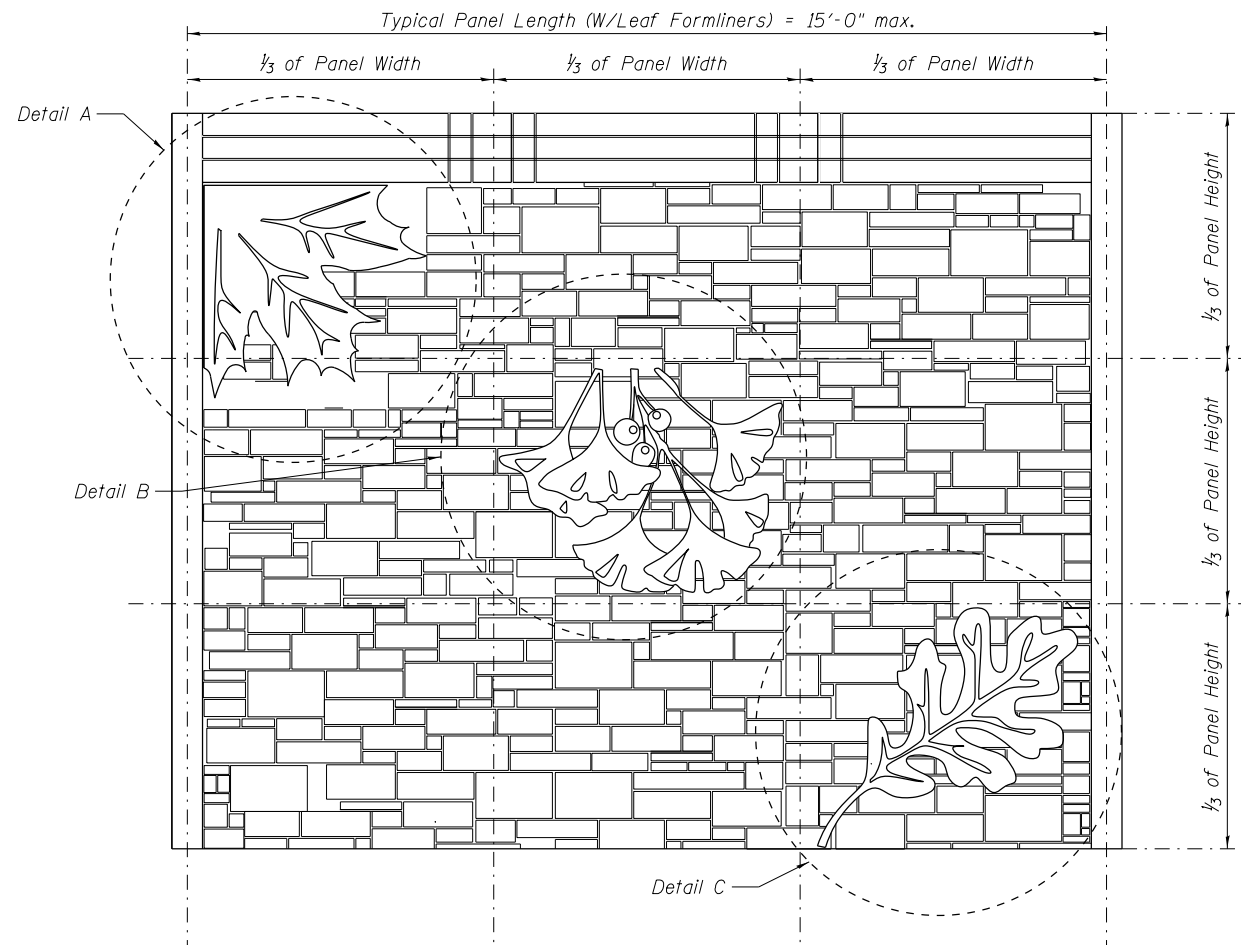
Panel stepping should reflect grading with a desired minimum end panel height of 8 feet.

A minimum of two, 2'-0" vertical steps shall occur at the free ends of ground mounted noise abatement walls as shown in the Partial Noise Abatement Wall Elevation at Free End. A Free End shall be defined as one which is not immediately adjacent to a structure mounted noise abatement wall. The number of steps at the free ends may be increased in order to meet step length criteria.

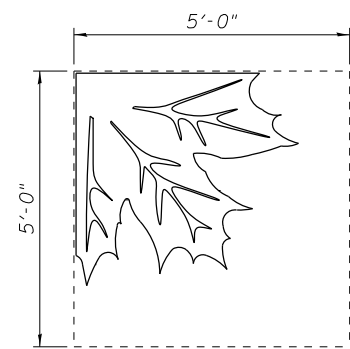
Away from the free ends, 2'-0" vertical steps shall be made at whole integer multiples of 90'-0" lengths measured along the face of the noise abatement wall. Any partial incremental length required to match the overall length of the noise abatement wall shown on the plans shall be accommodated immediately adjacent to the steps occurring at the free end.

The Noise Abatement Wall System Supplier shall be responsible for providing a system in accordance with these step criteria which substantially matches the approximate top of noise abatement wall panel outline as shown on the General Plan & Elevation.

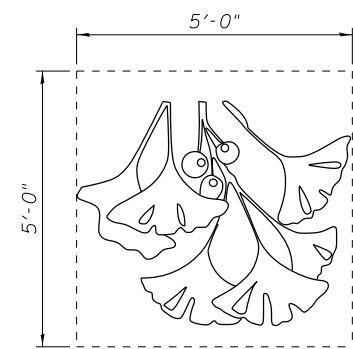
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LN ENGINEERING, LTD. Consulting Engineers	PLOT SCALE = 100.0009' / in.	CHECKED VPT	REVISED -			345	2013-083-R&B	DUPAGE	759	626
PLOT DATE = 10/28/2014		DRAWN BDC	REVISED -			DRAWING NO. SV-03		CONTRACT NO. 60Y95		
		CHECKED VPT	REVISED -			SHEET NO. 3 OF 6 SHEETS		ILLINOIS FED. AID PROJECT		



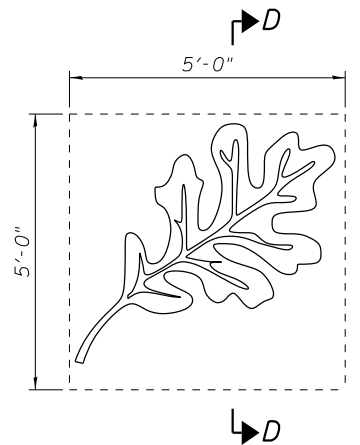
LEAF FORMLINER LAYOUT



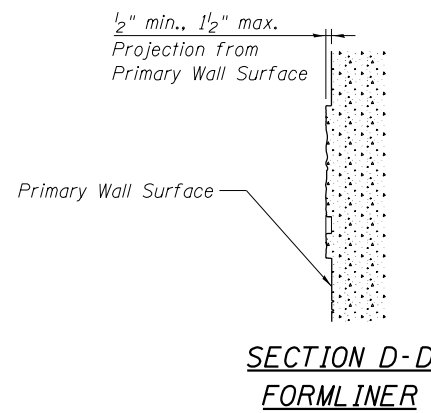
**DETAIL A
MAPLE LEAF DETAIL**



**DETAIL B
GINKGO LEAF DETAIL**



**DETAIL C
OAK LEAF DETAIL**



ARCHITECTURAL FORMLINER NOTES:

This layout shall be applied approximately every 150 feet (overall 3 accent noise wall panels), between Ramp G6 Sta. 618+20 and Sta. 621+87, as "accent" noise wall panel with leaf formliner, only on residential side of noise wall (not on mainline side).

Max. length of Accent Noise Wall Panel shall be 15 feet.

For Accent Noise Wall Panels that are up to 11 feet in height apply only two leaf images, Detail A (Maple Leaf) & Detail C (Oak Leaf) placed diagonally as shown on Leaf Formliner Layout.

Holes created by form ties shall be filled flush and smooth architectural surface shall be created in accordance with the special provisions.

Transitions between formwork, leaf panels and primary wall surfaces (ashlar pattern) shall be rubbed smooth to eliminate any grid marks and form marks in accordance with the Standard Specifications, Section 503.

Leaf image within the ashlar formliner shall have smooth finish and shall be sculptured to create a three-dimensional character in accordance with the special provisions.

Level of detail for leaf images within the formliners shall include, but shall be not limited to, overall character of the leaf, stems, veining, edge detailing and separations, and general contouring of the leaf.

All joints, fins, irregular projections, holes, and honeycombs shall be repaired and rubbed smooth until all form marks, projections, and irregularities have been removed, all voids filled properly and uniform color has been obtained.

Do not plant trees and taller shrubs directly in front of leaf image. Coordinate with landscape contractor.

FILE NAME = D160Y95-6d-004-NW_Aesthetics.dgn	USER NAME = asantiag	DESIGNED BDC	REVISED -
		CHECKED VPT	REVISED -
		DRAWN BDC	REVISED -
		CHECKED VPT	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AESTHETIC DETAILS
NOISE ABATEMENT WALL 01**

SHEET NO. 4 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	627
DRAWING NO. SV-04		CONTRACT NO. 60Y95		

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 7/19/13

CONTRACT 1-11-4031 DESCRIPTION Noise Wall along Ramp G6 LOGGED BY J. Frederick

ROUTE Elgin-O'Hare Expressway SECTION LOCATION SE 1/4 SEC. 6 TWP. 40N RNG. 11E PM. 3rd

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
BORING NO.	Station	DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	DEPTH	BLOW	UCS	MOIST
	Offset	DEPTH	BLOW	UCS	MOIST	Groundwater Elev.:	DEPTH	BLOW	UCS	MOIST
	Northing	DEPTH	BLOW	UCS	MOIST	First Encounter	DEPTH	BLOW	UCS	MOIST
	Easting	DEPTH	BLOW	UCS	MOIST	Upon Completion	DEPTH	BLOW	UCS	MOIST
	Ground Surface Elev.	DEPTH	BLOW	UCS	MOIST	After Hrs.	DEPTH	BLOW	UCS	MOIST
TOPSOIL	704.5					Gray below 11 feet(continued)				
Very Stiff, Brown SILTY CLAY trace - gravel		3								
		2	2.0	12						
		5	P							
		3								
		4	2.1	22						
FILL	699.7					Gravel in spoon tip				
		8	B							
		5								
Very Stiff, Brown and Gray CLAY trace - gravel		3				Very Stiff, Gray LOAM trace to little - gravel Grain Size LL=20, PI=5, A-4(0)				
		5	2.3	20						
		6	B							
Gray below 11 feet	694.2									
		5								
		7	2.4	19						
END OF BORING		9	B							
		5								
		7	2.4	18						
		8	B							
		4								
		5	2.2	19						
		6	B							
		4								
		5	2.0	18						
		6	B							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



BORING LOG 4014-SSB-04

Page 1 of 1

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client CH2M HILL, Inc.
Project Elgin O'Hare Western Bypass Tier 2
Location DuPage County

Datum: NAVD88
Elevation: 701.17 ft
North: 1936681.95 ft
East: 1069274.90 ft
Station: 618+46.77
Offset: 2.02 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
699.2	Stiff, black SILTY CLAY --TOPSOIL--			1	2 3 4	1.64 B	35	699.2	Medium stiff to stiff, gray SILTY CLAY LOAM, trace gravel			11	3 6 8	0.98 B	13
	Medium stiff to stiff, brown and gray SILTY CLAY, trace organic matter			2	2 2 3	1.25 P	34					12	3 7 10	0.82 B	15
				3	3 4 4	0.90 B	29								
				4	2 2 3	0.98 B	30					13	9 24 26	1.31 B	18
699.9	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			5	4 5 7	2.54 B	18	664.7	SANDY LOAM						
				6	2 3 4	1.56 B	20	662.4	Stiff, gray SILTY CLAY LOAM			14	3 3 6	1.25 P	17
				7	3 5 8	2.13 B	14	661.2	Boring terminated at 40.00 ft						
				8	2 2 3	0.98 B	21								
				9	3 4 7	2.21 B	21								
678.7	SAND			10	3 9 4	0.82 B	24								
678.2	Medium stiff, gray SILTY CLAY														
677.2	SAND														
676.9															

GENERAL NOTES

Begin Drilling 01-15-2013 Complete Drilling 01-15-2013
Drilling Contractor Wang Testing Services Drill Rig D-50 ATV
Driller K&K Logger D. Kolpacki Checked by C. Marin
Drilling Method 3.25-inch IDA HSA, auto hammer, boring backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling 22.50 ft
At Completion of Drilling 22.50 ft
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG 4014-SSB-05

WEI Job No.: 450-03-01

Client: **CH2M HILL, Inc.**
 Project: **Elgin O'Hare Western Bypass Tier 2**
 Location: **DuPage County**

Datum: NAVD88
 Elevation: 706.85 ft
 North: 1936750.60 ft
 East: 1069410.89 ft
 Station: 619+99.51
 Offset: 1.29 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
705.8	12" thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown to gray SILTY CLAY, trace gravel	0	1	4 6 9	2.71 B	18		684.6	SAND	0	11	3 30 11	1.07 B	14	
		5	2	5 5 8	4.50 P	22			Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	5	12	3 3 5	1.07 B	14	
		10	3	7 8 11	3.53 B	18				10	13	4 5 8	2.05 B	15	
		15	4	2 3 6	1.72 B	21		670.1	Loose, brown SANDY LOAM	15	14	3 3 5	NP	22	
		20	5	3 4 6	2.05 B	18		665.1	Very stiff, gray SILTY CLAY LOAM, trace gravel	20	15	5 9 13	2.62 B	15	
		25	6	3 4 6	1.80 B	22		660.1	Loose, brown SANDY LOAM, trace gravel	25	16	5 4 3	NP	13	

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-21-2013	Complete Drilling	01-21-2013	While Drilling	▽	25.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 ATV	At Completion of Drilling	▽	28.50 ft	
Driller	K&K	Logger	D. Kolpacki	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled with lean grout upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

Wang Engineering
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 Fax: 630 953-9938

BORING LOG 4014-SSB-05

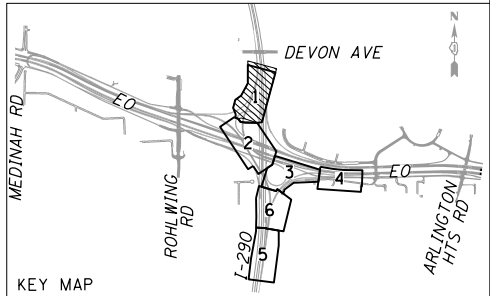
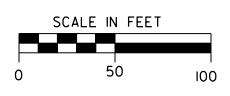
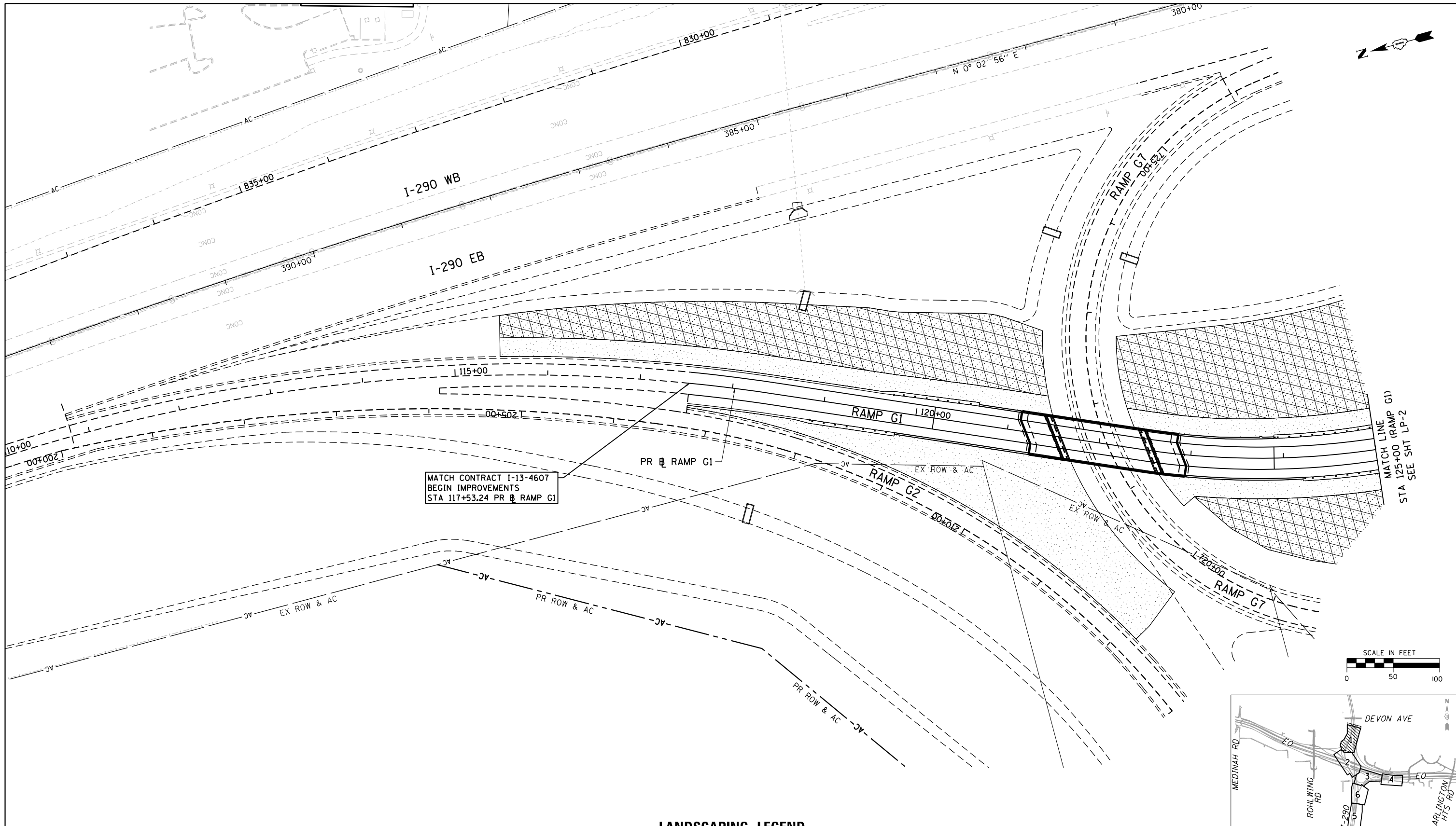
WEI Job No.: 450-03-01

Client: **CH2M HILL, Inc.**
 Project: **Elgin O'Hare Western Bypass Tier 2**
 Location: **DuPage County**

Datum: NAVD88
 Elevation: 706.85 ft
 North: 1936750.60 ft
 East: 1069410.89 ft
 Station: 619+99.51
 Offset: 1.29 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
655.1	Stiff, gray SILTY CLAY LOAM, trace gravel	0	17	8 8 10	1.39 B	11				0					
651.8	Boring terminated at 55.00 ft	55								55					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-21-2013	Complete Drilling	01-21-2013	While Drilling	▽	25.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 ATV	At Completion of Drilling	▽	28.50 ft	
Driller	K&K	Logger	D. Kolpacki	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled with lean grout upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							



LANDSCAPING LEGEND

	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (MODIFIED) (JT250430) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, TALL FESCUE MIX (JT250450) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, GRASS-FORB MIX (JT250445) AND EROSION CONTROL BLANKET (JI251010)		SODDING, SALT TOLERANT (25200110)		EXISTING SHADE TREE TO REMAIN		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE
	SEEDING, CLASS 4F NATIVE GRASS, LOW PROFILE MIX (MODIFIED) (JT250440) AND EROSION CONTROL BLANKET (JI251010)		TEMPORARY SEEDING (SEE EROSION CONTROL PLANS)		BIOSWALE PLUGS (JT254015)		PROPOSED TREE		EXISTING EVERGREEN TREE TO REMAIN		PROPOSED TREE PROTECTION FENCING
	PROPOSED TREE		PROPOSED EVERGREEN TREE		PROPOSED SHRUBS		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE		PROPOSED TREE PROTECTION FENCING		BY OTHERS (TYPICAL)

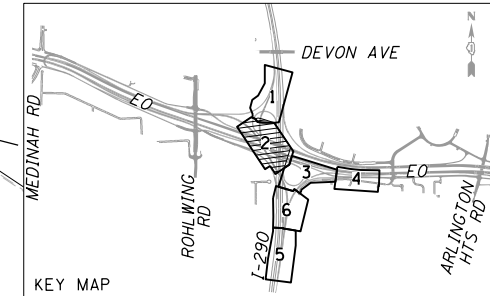
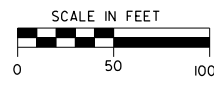
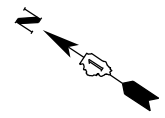
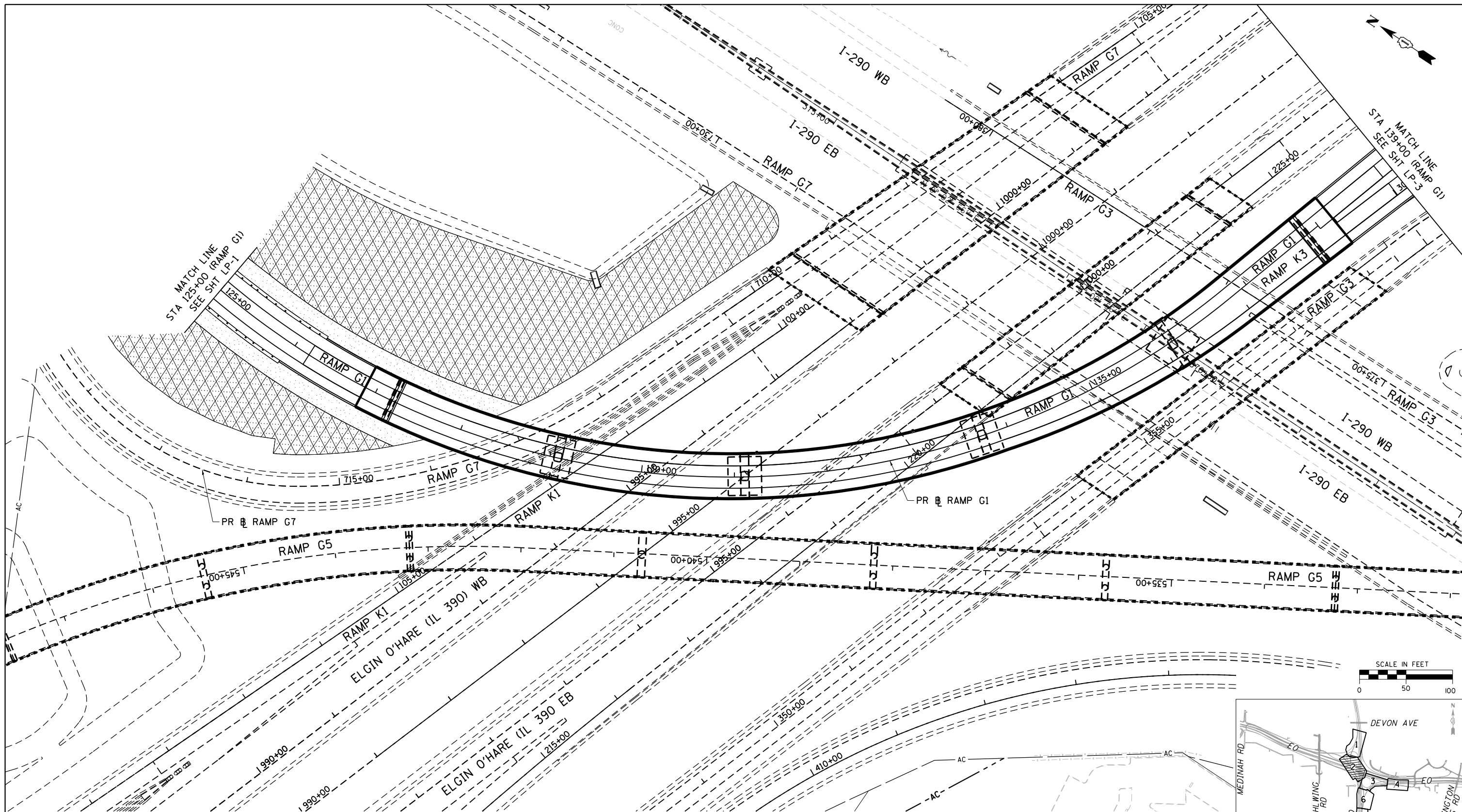
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PLOT DATE = 10/28/2014	CHECKED - SML	REVISED -
	DATE - 07/07/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN
SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 117+53.24 TO STA. 125+00

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 630
DRAWING NO. LP-1			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (MODIFIED) (JT250430) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, TALL FESCUE MIX (JT250450) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, GRASS-FORB MIX (JT250445) AND EROSION CONTROL BLANKET (JI251010)		SODDING, SALT TOLERANT (25200110)		EXISTING SHADE TREE TO REMAIN		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE
	SEEDING, CLASS 4F NATIVE GRASS, LOW PROFILE MIX (MODIFIED) (JT250440) AND EROSION CONTROL BLANKET (JI251010)		TEMPORARY SEEDING (SEE EROSION CONTROL PLANS)		BIOSWALE PLUGS (JT254015)		PROPOSED TREE		EXISTING EVERGREEN TREE TO REMAIN		PROPOSED TREE PROTECTION FENCING
							PROPOSED EVERGREEN TREE		PROPOSED SHRUBS		BY OTHERS (TYPICAL)

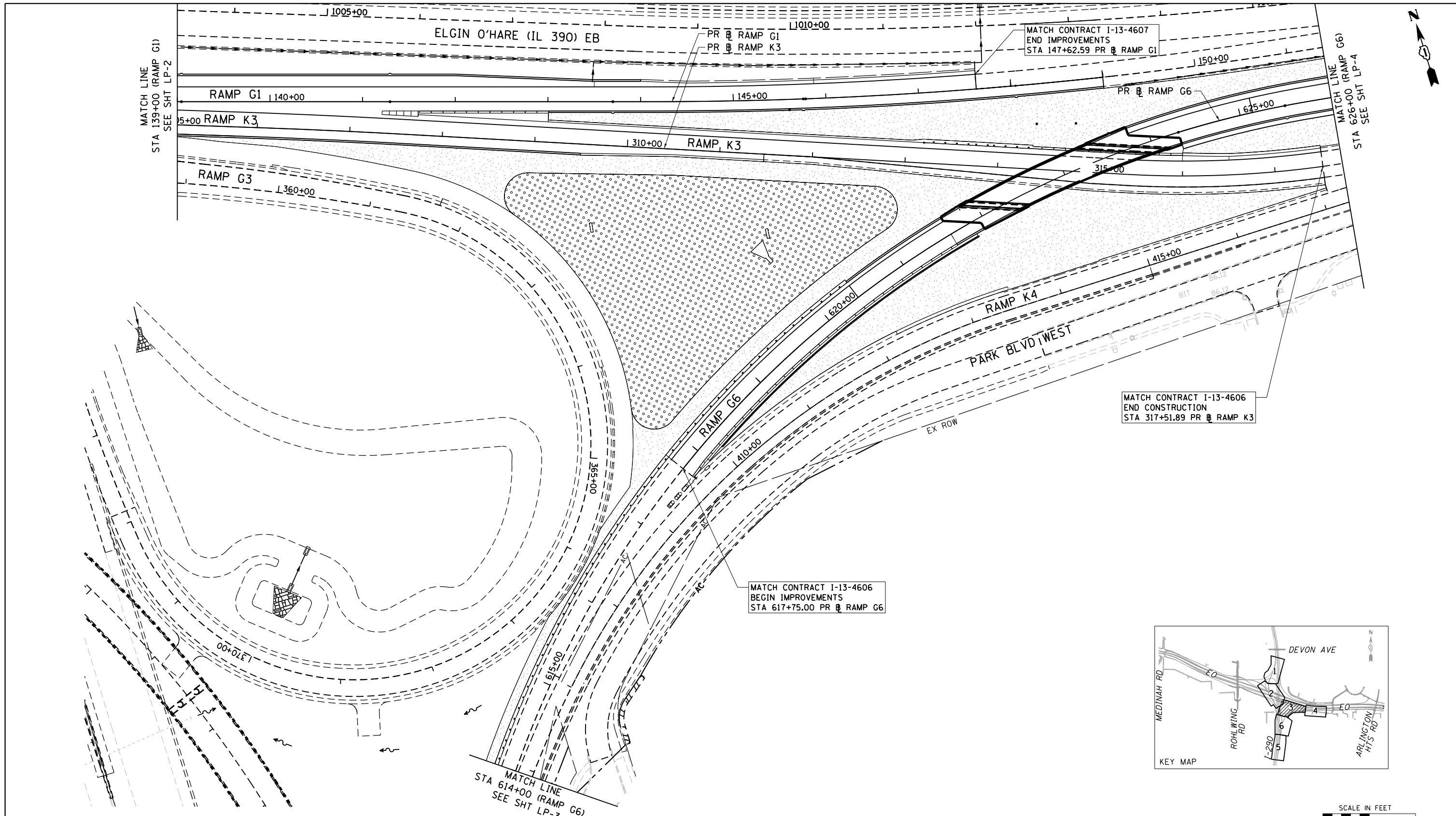
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	PLOT DATE = 10/28/2014	DATE - 07/07/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 2 OF 6 SHEETS STA. 125+00 TO STA. 139+00

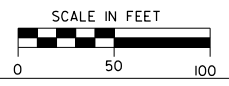
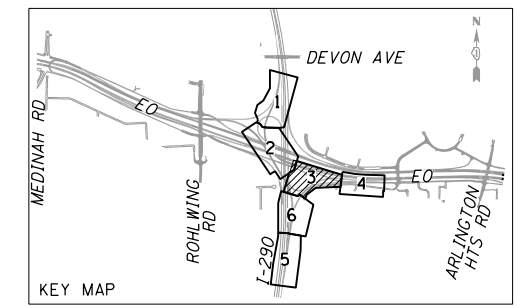
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	631
DRAWING NO. LP-2			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				



MATCH CONTRACT I-13-4606
END CONSTRUCTION
STA 317+51.89 PR RAMP K3

MATCH CONTRACT I-13-4606
BEGIN IMPROVEMENTS
STA 617+75.00 PR RAMP G6

MATCH CONTRACT I-13-4607
END IMPROVEMENTS
STA 147+62.59 PR RAMP G1



LANDSCAPING LEGEND

	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (MODIFIED) (JT250430) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, TALL FESCUE MIX (JT250450) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, GRASS-FORB MIX (JT250445) AND EROSION CONTROL BLANKET (JI251010)		SODDING, SALT TOLERANT (25200110)		EXISTING SHADE TREE TO REMAIN		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE
	SEEDING, CLASS 4F NATIVE GRASS, LOW PROFILE MIX (MODIFIED) (JT250440) AND EROSION CONTROL BLANKET (JI251010)		TEMPORARY SEEDING (SEE EROSION CONTROL PLANS)		BIOSWALE PLUGS (JT254015)		PROPOSED TREE		EXISTING EVERGREEN TREE TO REMAIN		PROPOSED TREE PROTECTION FENCING
							PROPOSED EVERGREEN TREE		PROPOSED SHRUBS		BY OTHERS (TYPICAL)

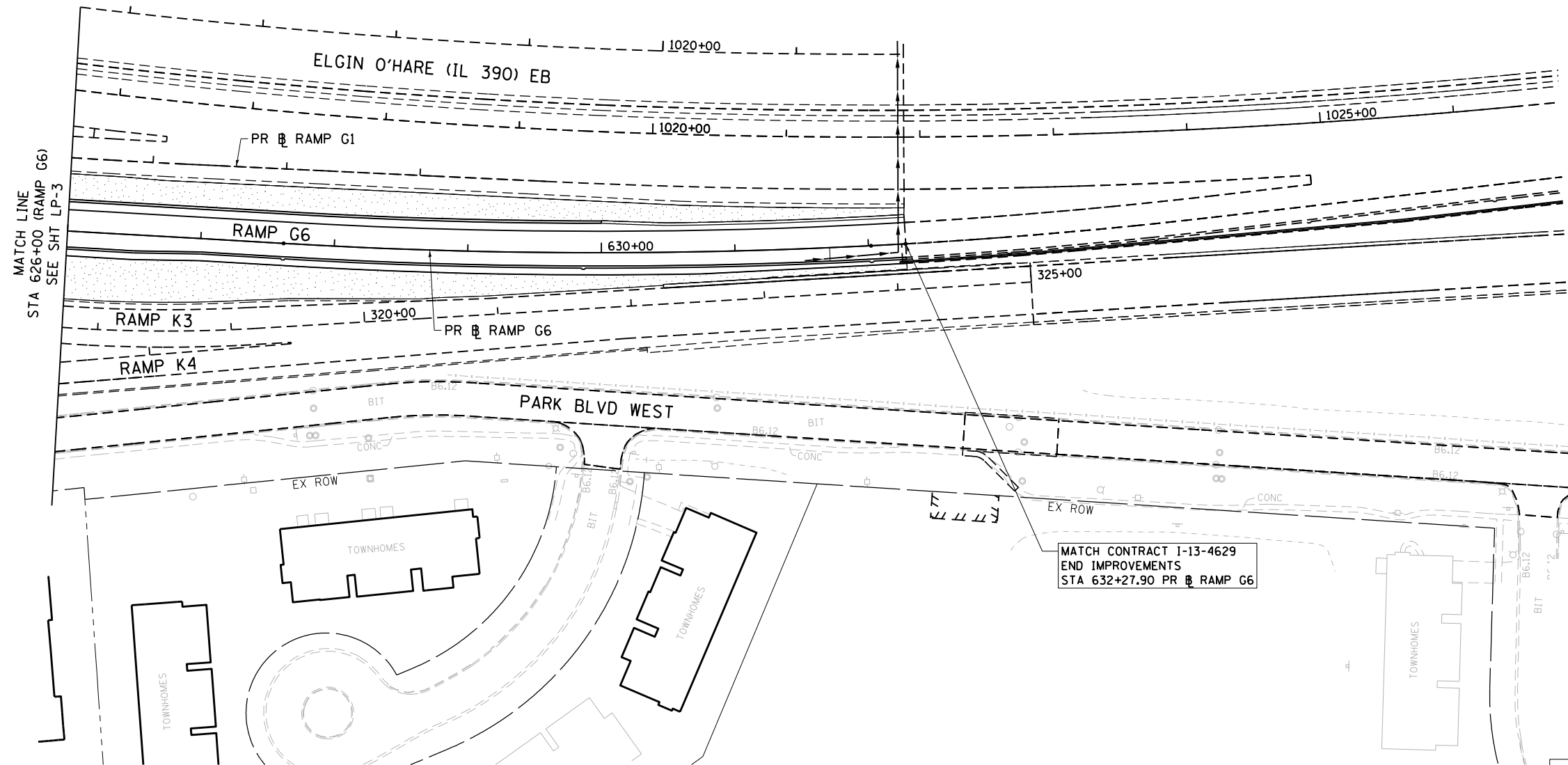
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

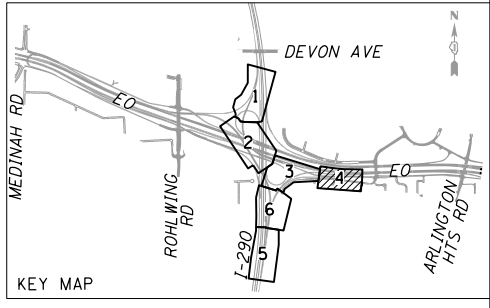
LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 3 OF 6 SHEETS STA. 139+00 TO STA. 147+62.59

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 632
DRAWING NO. LP-3			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				



MATCH CONTRACT I-13-4629
END IMPROVEMENTS
STA 632+27.90 PR RAMP G6



LANDSCAPING LEGEND

	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (MODIFIED) (JT250430) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, TALL FESCUE MIX (JT250450) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, GRASS-FORB MIX (JT250445) AND EROSION CONTROL BLANKET (JI251010)		SODDING, SALT TOLERANT (25200110)		EXISTING SHADE TREE TO REMAIN		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE
	SEEDING, CLASS 4F NATIVE GRASS, LOW PROFILE MIX (MODIFIED) (JT250440) AND EROSION CONTROL BLANKET (JI251010)		TEMPORARY SEEDING (SEE EROSION CONTROL PLANS)		BIOSWALE PLUGS (JT254015)		PROPOSED TREE		EXISTING EVERGREEN TREE TO REMAIN		PROPOSED TREE PROTECTION FENCING
					PROPOSED EVERGREEN TREE		PROPOSED SHRUBS				BY OTHERS (TYPICAL)

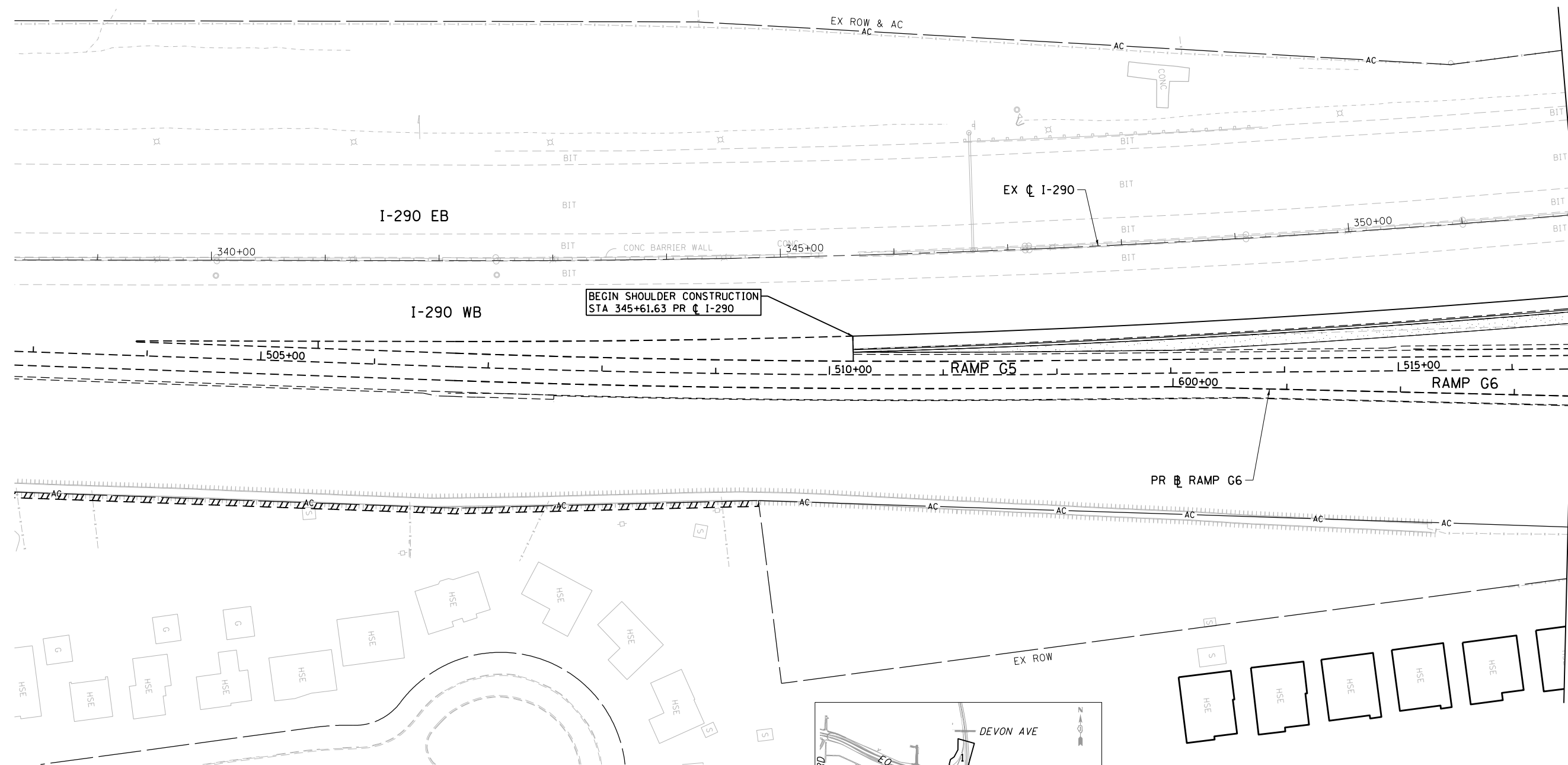
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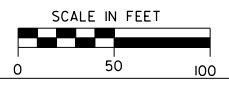
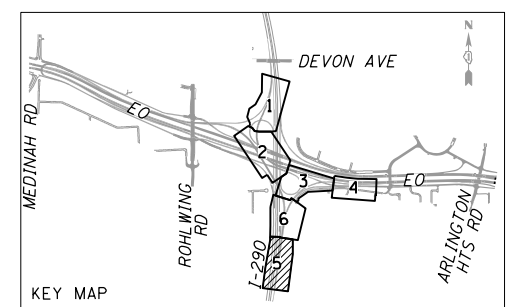
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN
SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. 138+00 TO STA. 147+62.59

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 633
DRAWING NO. LP-4			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 352+00 (I-290) SEE SHT LP-6
 MATCH LINE STA 516+50 (RAMP G6) SEE SHT LP-6



LANDSCAPING LEGEND

	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (MODIFIED) (JT250430) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, TALL FESCUE MIX (JT250450) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, GRASS-FORB MIX (JT250445) AND EROSION CONTROL BLANKET (JI251010)		SODDING, SALT TOLERANT (25200110)		EXISTING SHADE TREE TO REMAIN		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE
	SEEDING, CLASS 4F NATIVE GRASS, LOW PROFILE MIX (MODIFIED) (JT250440) AND EROSION CONTROL BLANKET (JI251010)		TEMPORARY SEEDING (SEE EROSION CONTROL PLANS)		BIOSWALE PLUGS (JT254015)		PROPOSED TREE		EXISTING EVERGREEN TREE TO REMAIN		PROPOSED TREE PROTECTION FENCING
					PROPOSED EVERGREEN TREE		PROPOSED SHRUBS				BY OTHERS (TYPICAL)

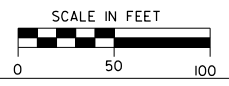
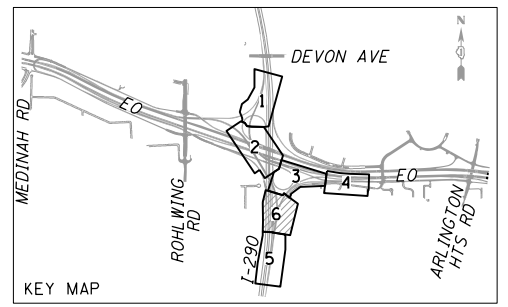
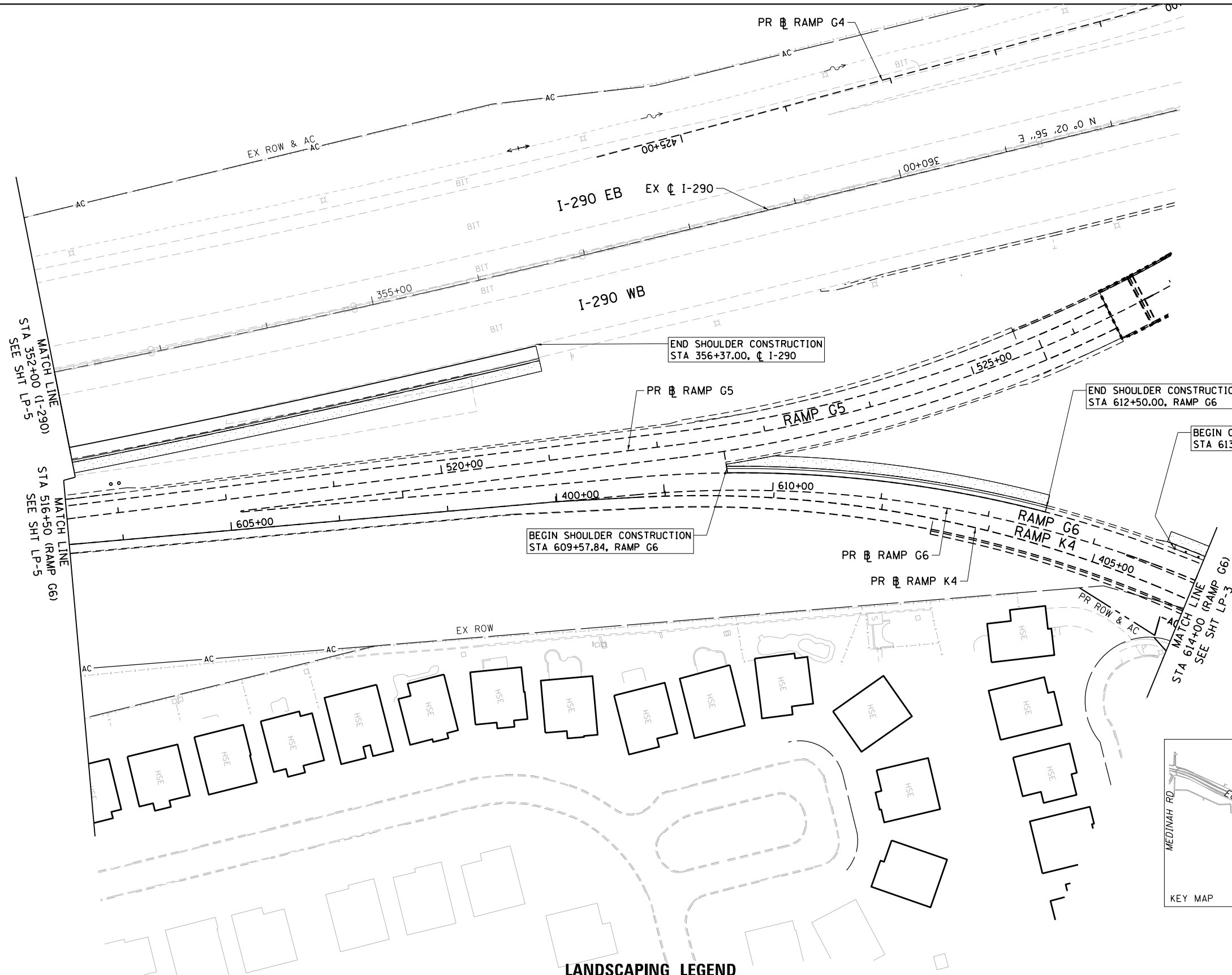
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	PLOT DATE = 10/28/2014	CHECKED - SML	REVISED -
		DATE - 07/07/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. 139+00 TO STA. 147+62.59

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 634
DRAWING NO. LP-5		CONTRACT NO. 60Y95		
ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (MODIFIED) (JT250430) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, TALL FESCUE MIX (JT250450) AND EROSION CONTROL BLANKET (JI251010)		SEEDING, GRASS-FORB MIX (JT250445) AND EROSION CONTROL BLANKET (JI251010)		SODDING, SALT TOLERANT (25200110)		EXISTING SHADE TREE TO REMAIN		PROPOSED ACCESS CONTROL LINE & ROW WITH FENCE
	SEEDING, CLASS 4F NATIVE GRASS, LOW PROFILE MIX (MODIFIED) (JT250440) AND EROSION CONTROL BLANKET (JI251010)		TEMPORARY SEEDING (SEE EROSION CONTROL PLANS)		BIOSWALE PLUGS (JT254015)		PROPOSED TREE		EXISTING EVERGREEN TREE TO REMAIN		PROPOSED TREE PROTECTION FENCING
							PROPOSED EVERGREEN TREE		PROPOSED SHRUBS		BY OTHERS (TYPICAL)

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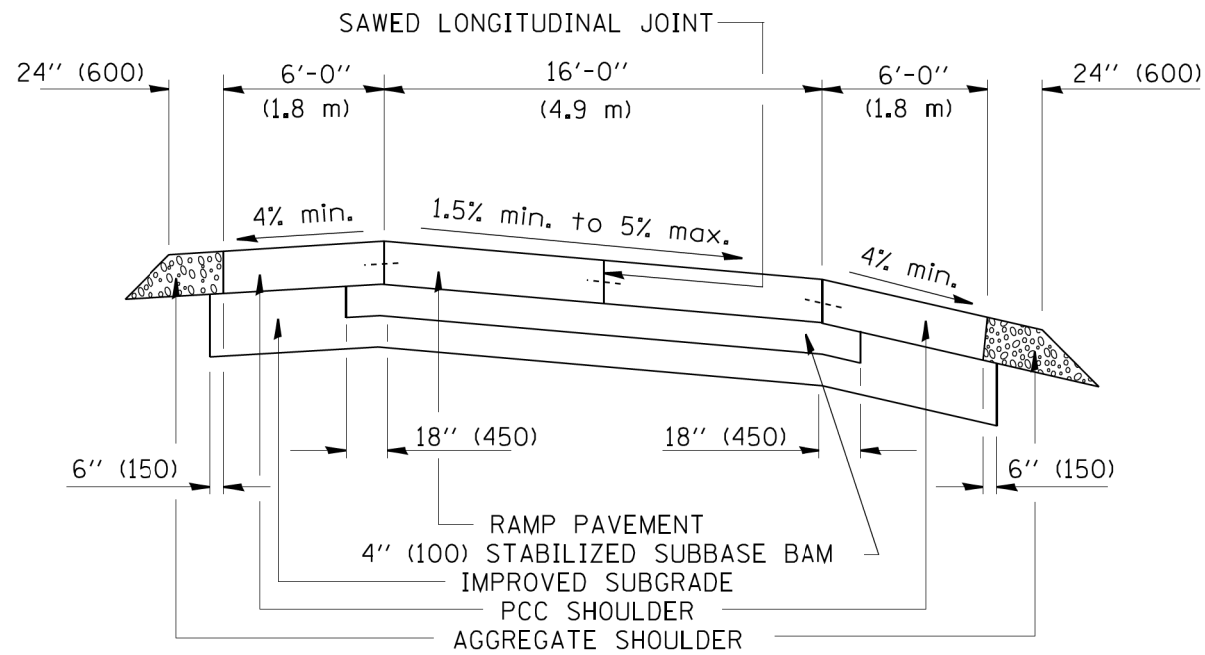
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PLOT DATE = 10/28/2014	CHECKED - SML	REVISED -
	DATE - 07/07/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. 139+00 TO STA. 147+62.59

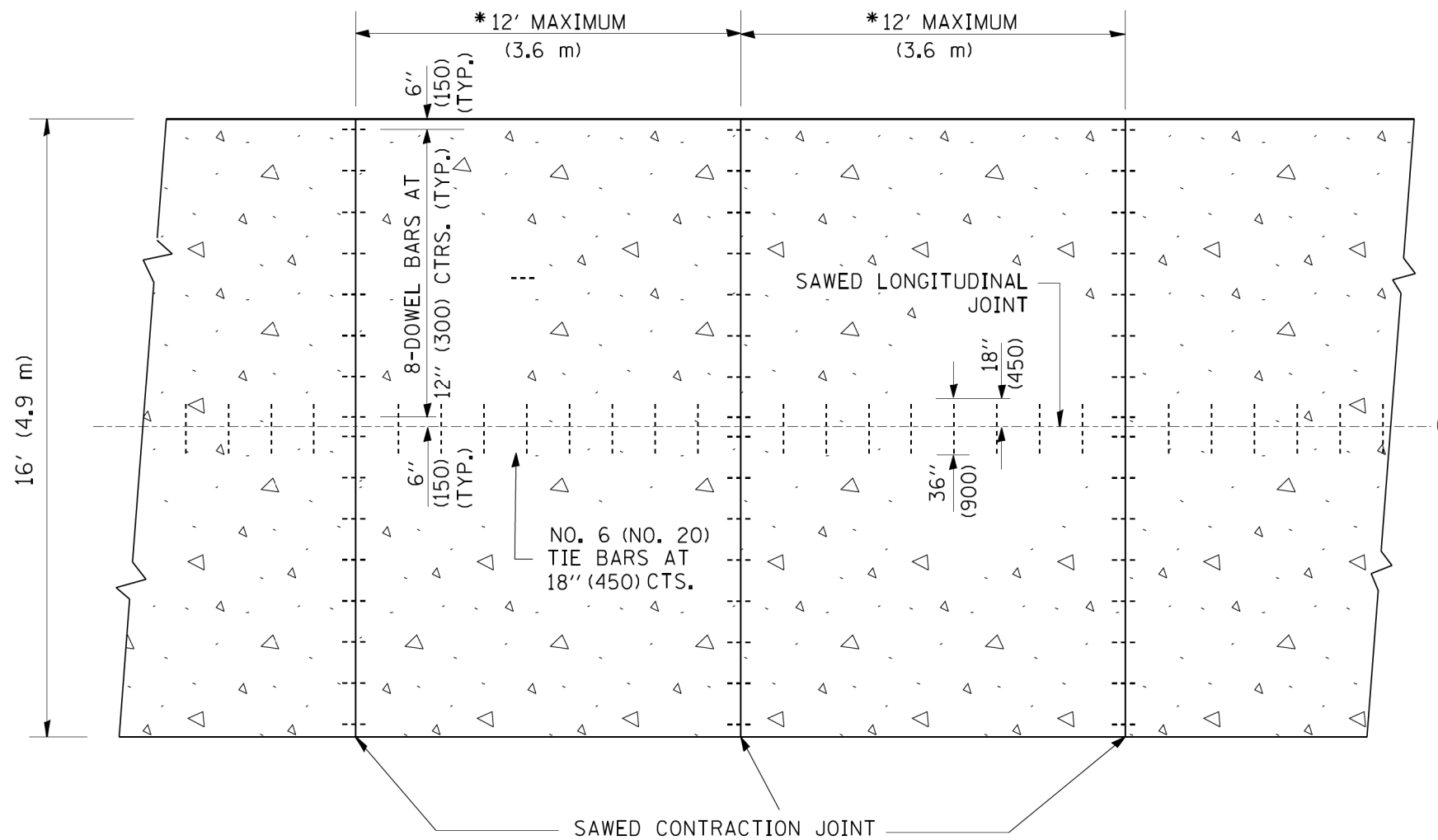
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DRAWING NO. LP-6			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				



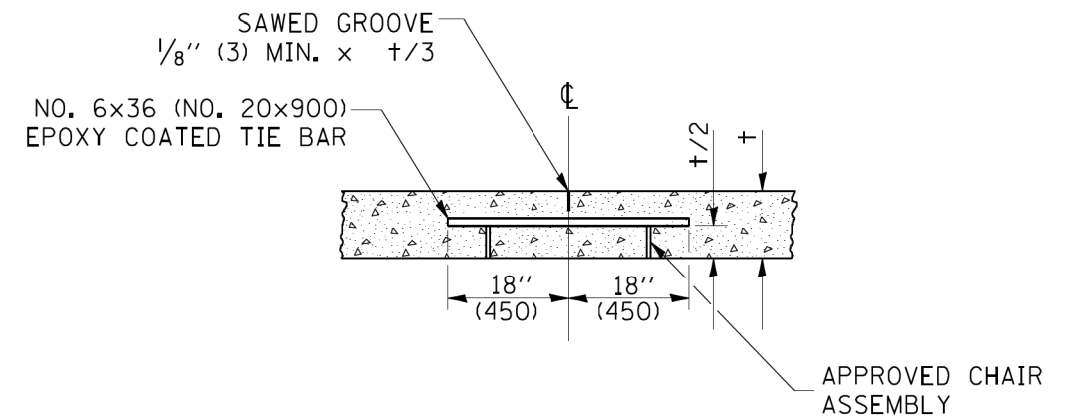
SECTION

NOTES:

1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12' (3.6 m).
2. ALL BARS TO BE EPOXY COATED.



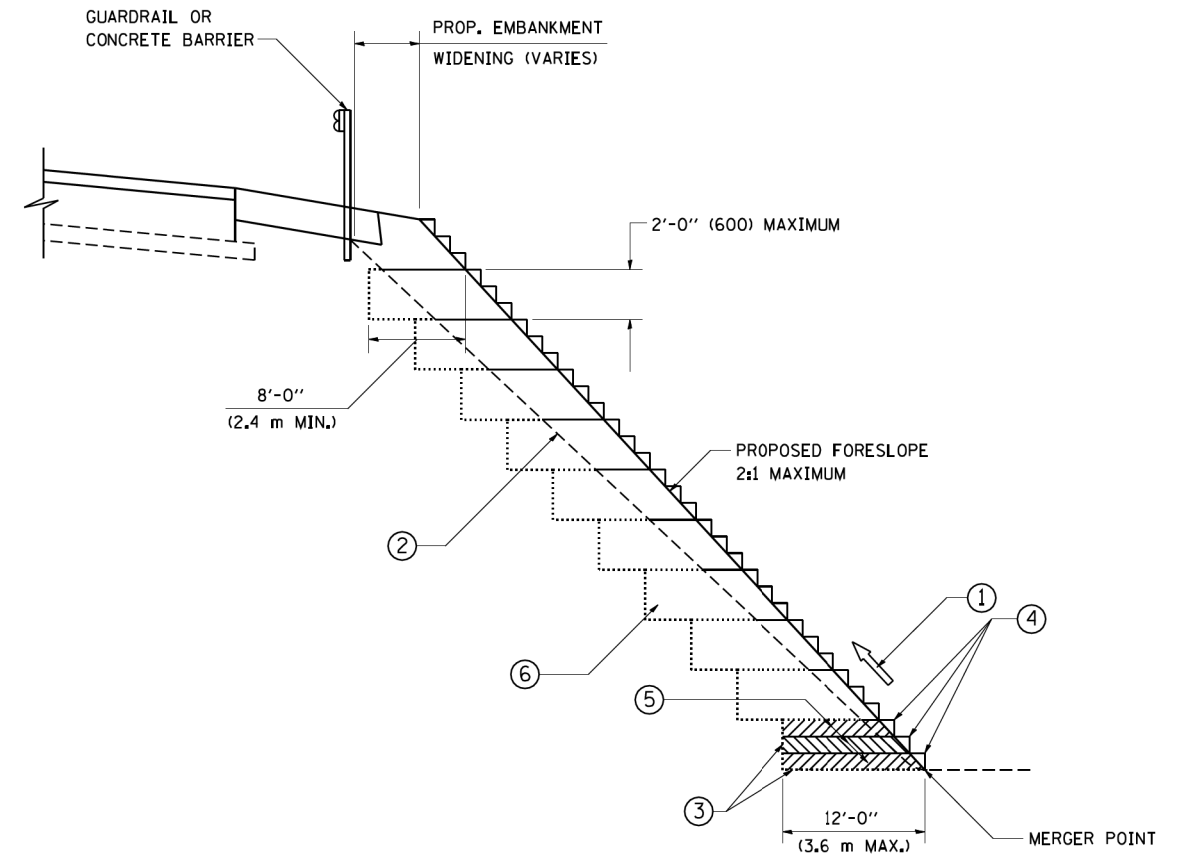
PLAN



SAWED LONGITUDINAL JOINT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

FILE NAME = W:\diststa\22x34\bd49.dgn	USER NAME = geglano	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR CENTERLINE SAW CUT 16' (4.9 m) AND VARIABLE JOINTED PCC PAVEMENT FOR RAMPS		F.A. RTE. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED -				BD49		759	636	
PLOT DATE = 1/4/2008	DATE = 10-18-02	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

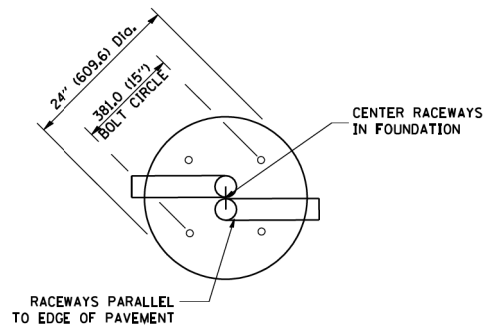
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

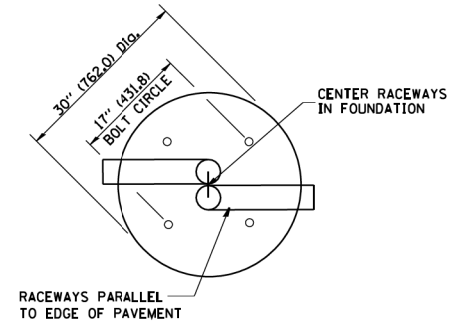
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	PLOT SCALE = 50.0000' / IN.	CHECKED - S.E.B.	REVISED -		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	759	637
	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -								CONTRACT NO. 60Y95	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	(2.74 m)



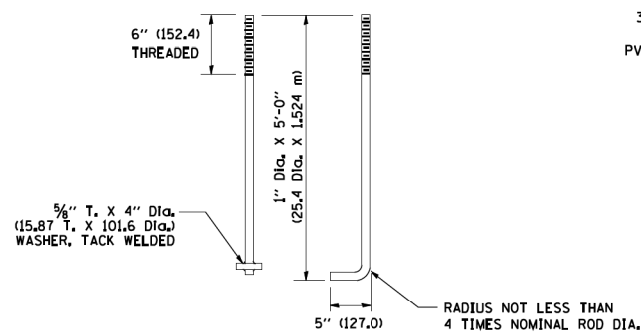
TOP VIEW



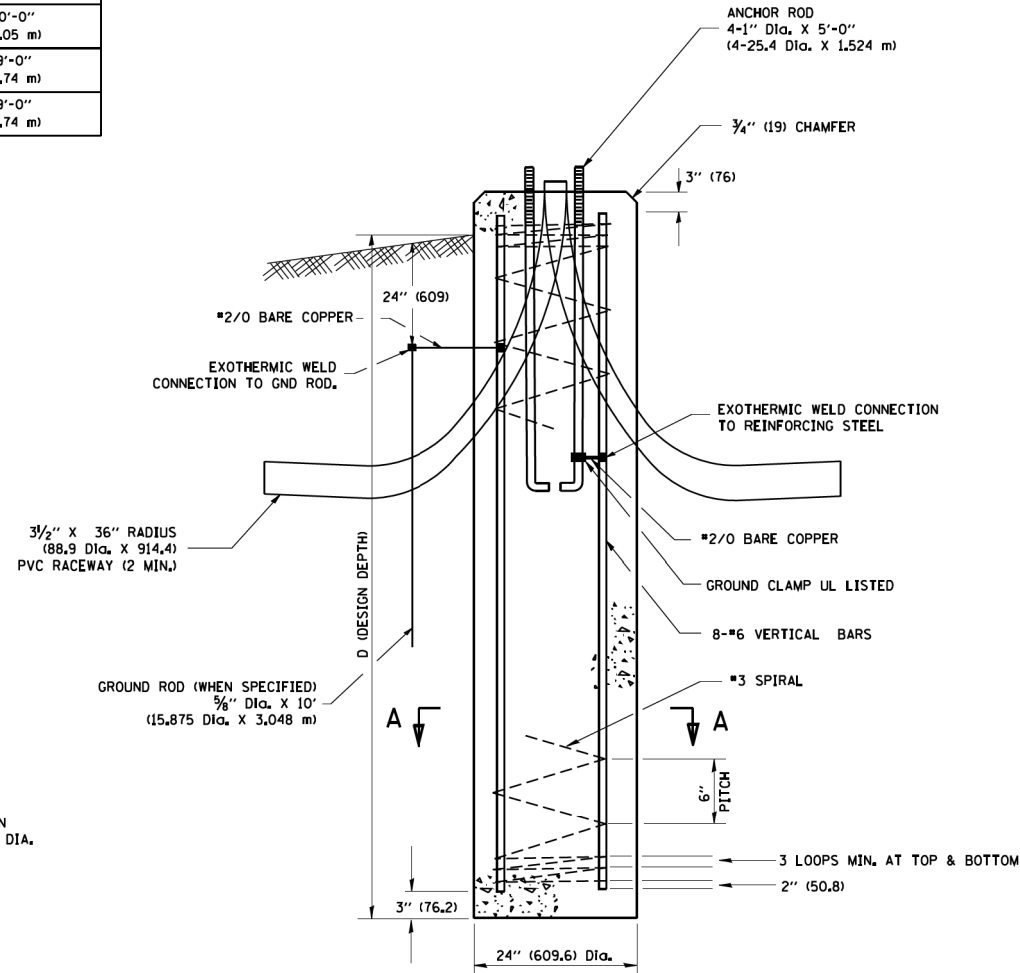
TOP VIEW

NOTES

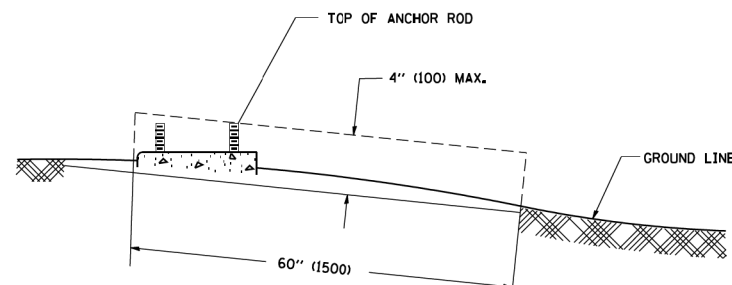
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



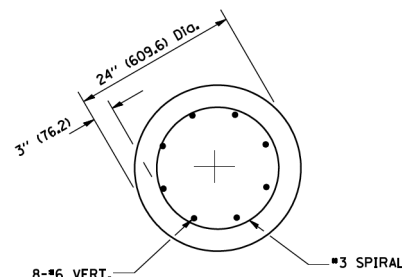
ANCHOR ROD DETAIL



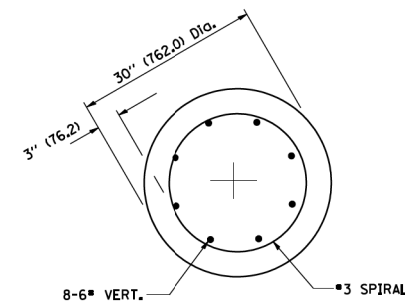
FOUNDATION DETAIL



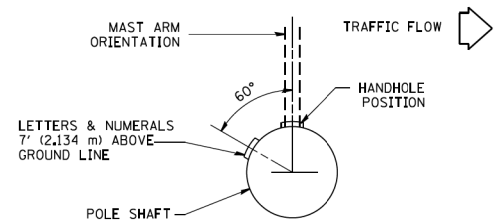
FOUNDATION EXTENSION DETAIL



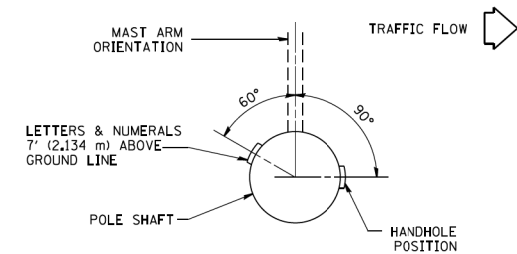
SECTION A-A



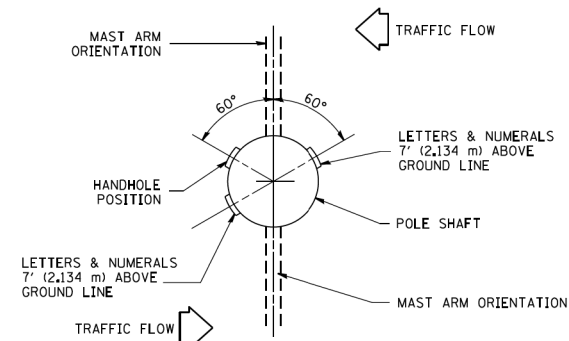
SECTION A-A



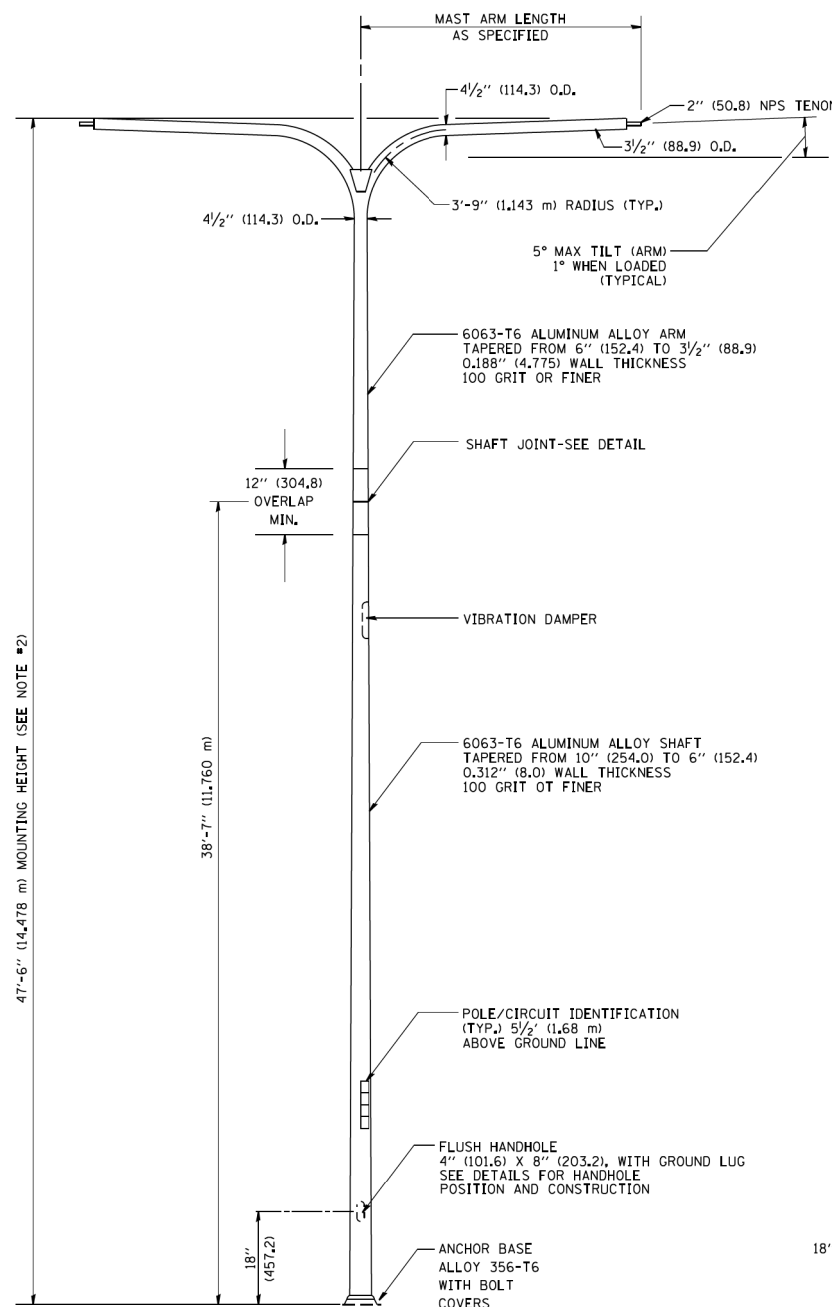
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



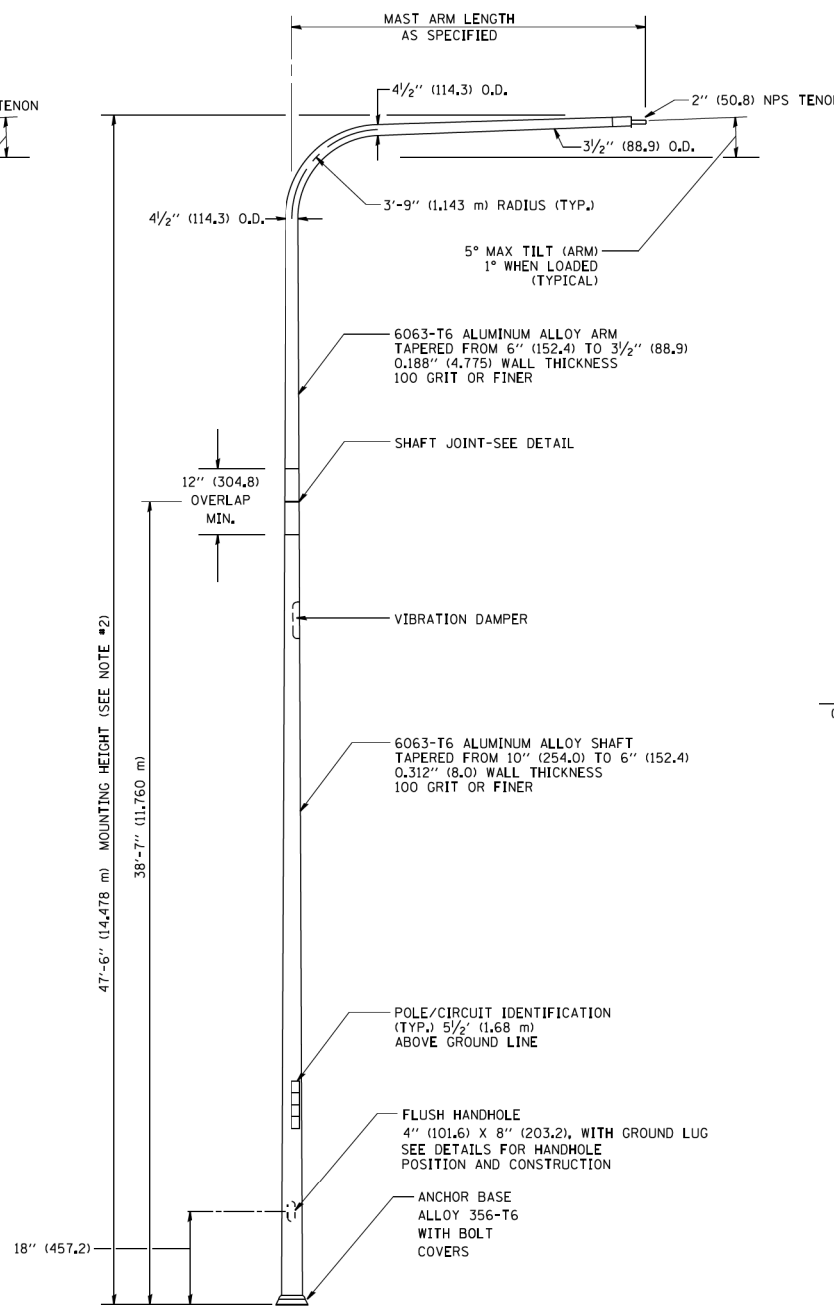
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

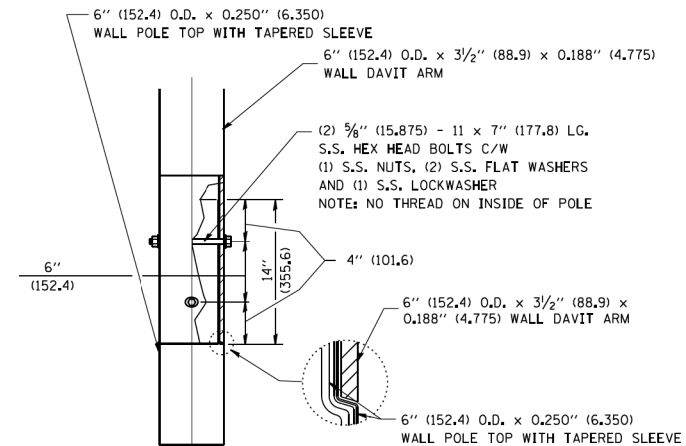


TWIN ARM POLE

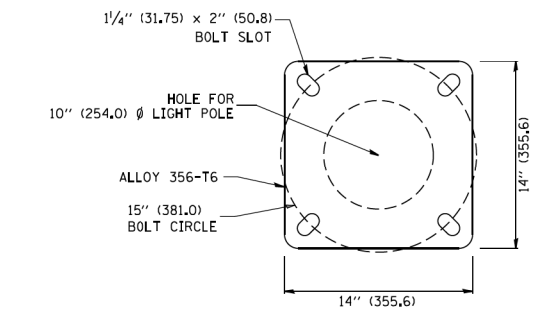


SINGLE ARM POLE

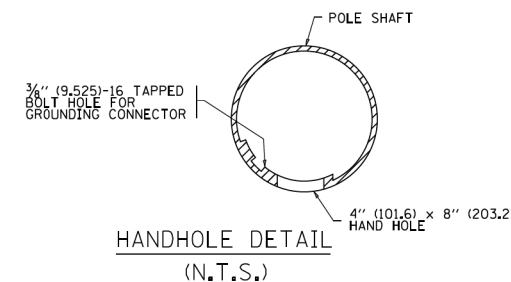
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 - TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 - THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 - THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
 - LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 - LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 - LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]

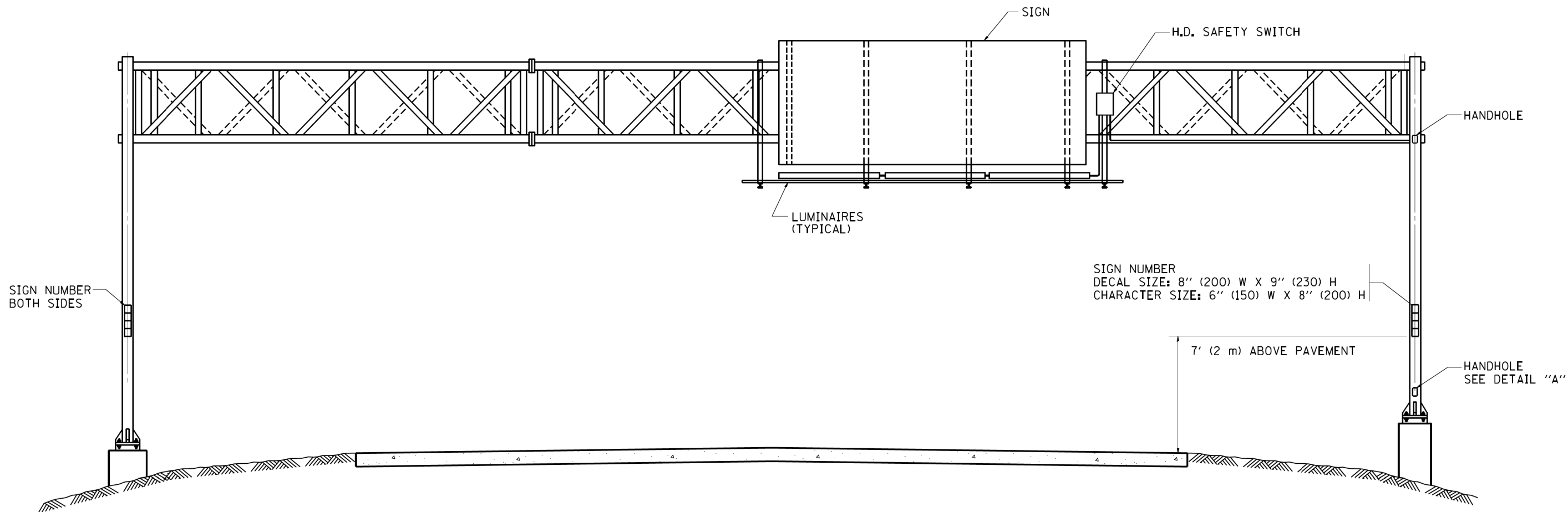


LIGHT POLE BASE PLATE DETAIL
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



HANDHOLE DETAIL
(N.T.S.)

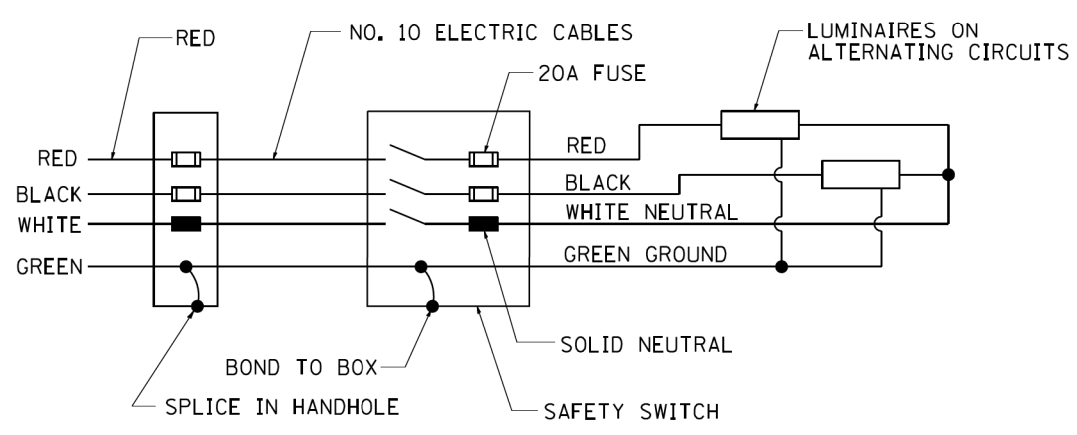
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ca:\pwork\pwork\lleyse\00108315\be410.dgn		DRAWN - LEY	REVISED - R. TOMSONS 09-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-410	CONTRACT NO.	759	639
		PLOT SCALE = 50.0000' / 1"	REVISED - R. TOMSONS 09-02-03		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		PLOT DATE = 4/4/2013	REVISED - R. TOMSONS 01-18-13									



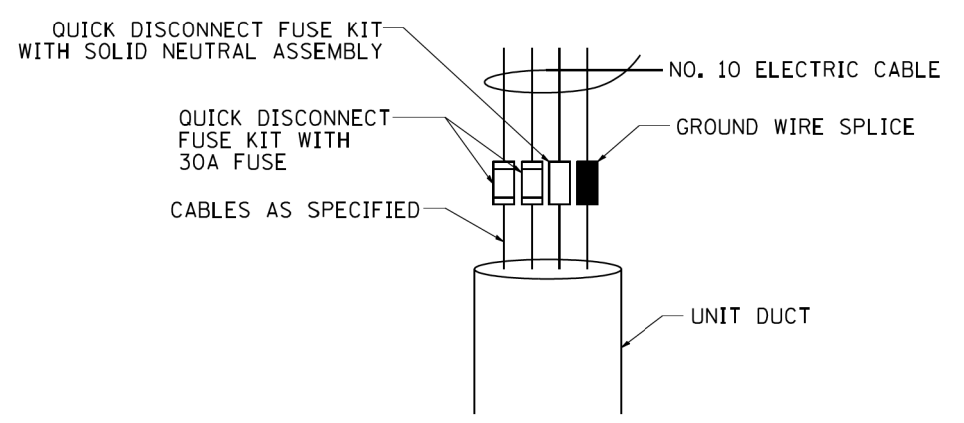
SIGN NUMBER
 DECAL SIZE: 8" (200) W X 9" (230) H
 CHARACTER SIZE: 6" (150) W X 8" (200) H

7' (2 m) ABOVE PAVEMENT

HANDHOLE
 SEE DETAIL "A"



WIRING DIAGRAM

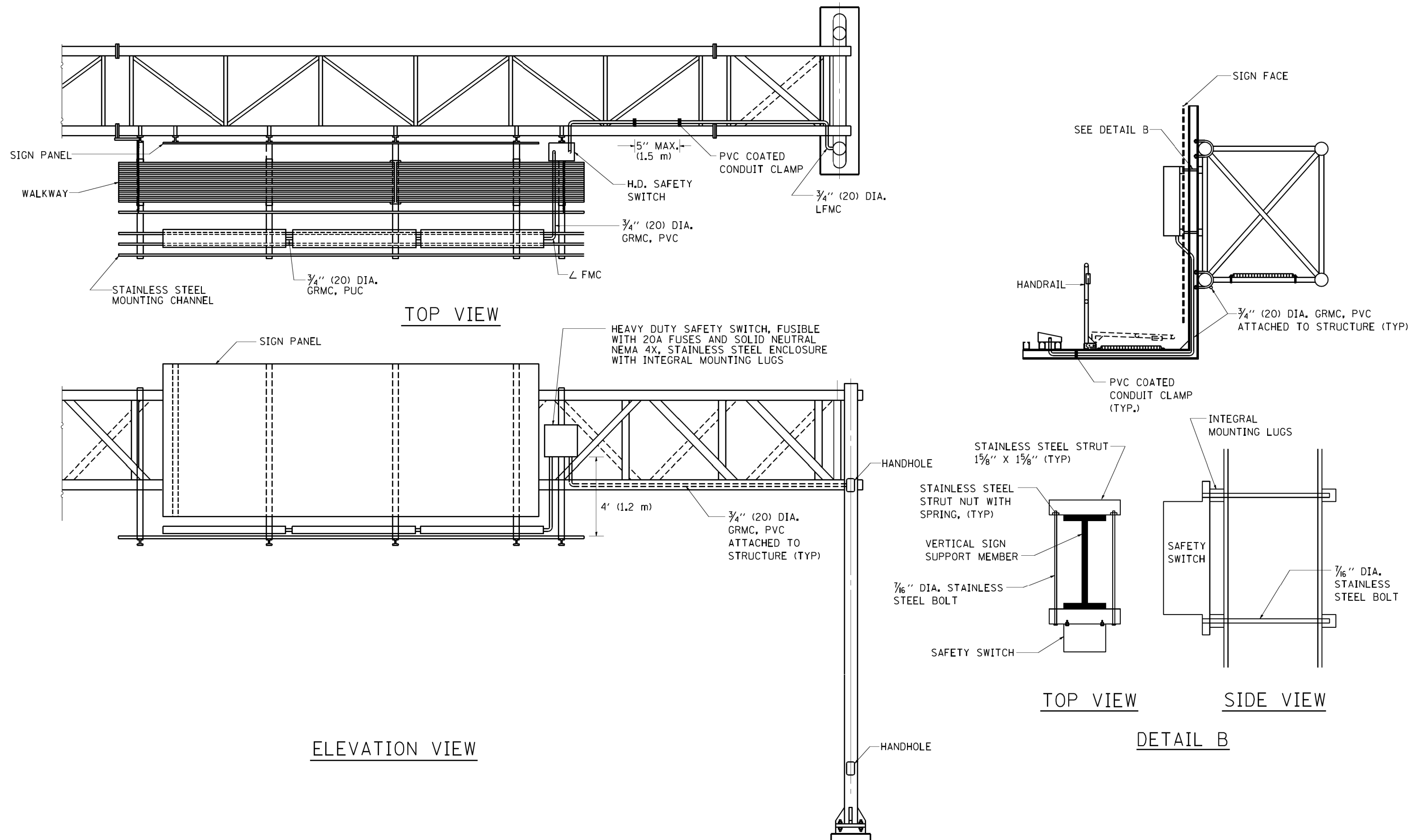


DETAIL A

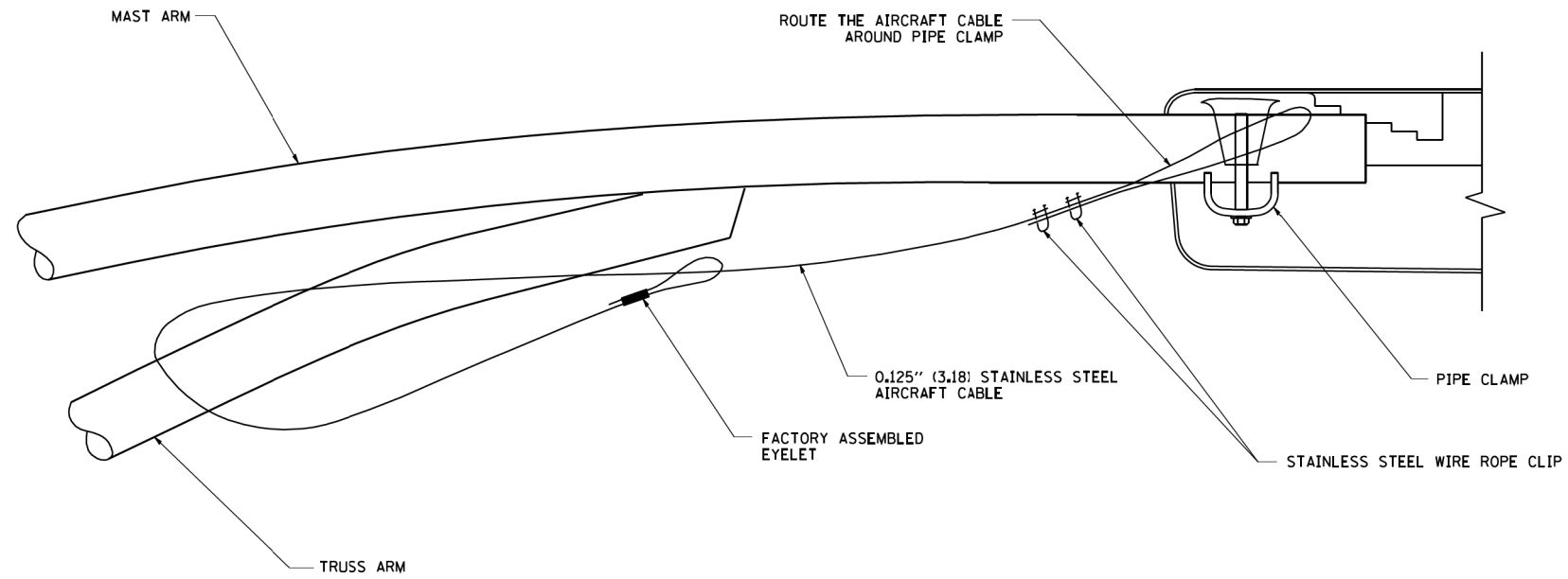
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED RIGID METALIC CONDUIT, PVC COATED (GRMC, PVC)
3. THE USE OF LIQUID TIGHT METAL CONDUIT (TYPE LFMC) SHALL BE LIMITED TO LOCATIONS WHERE MOVEMENT IS ANTICIPATED AND SHALL NOT EXCEED 5' (1.5 m) IN LENGTH
4. ALL WORK INDICATED SHALL BE INCLUDED IN THE PAY ITEM FOR ELECTRIC CONNECTION TO SIGN STRUCTURE
5. THE SAFETY SWITCH SHALL BE LOCATED ON THE SIDE OF THE SIGN STRUCTURE WHICH IS CLOSEST TO THE SHOULDER, OR EDGE OF PAVEMENT.

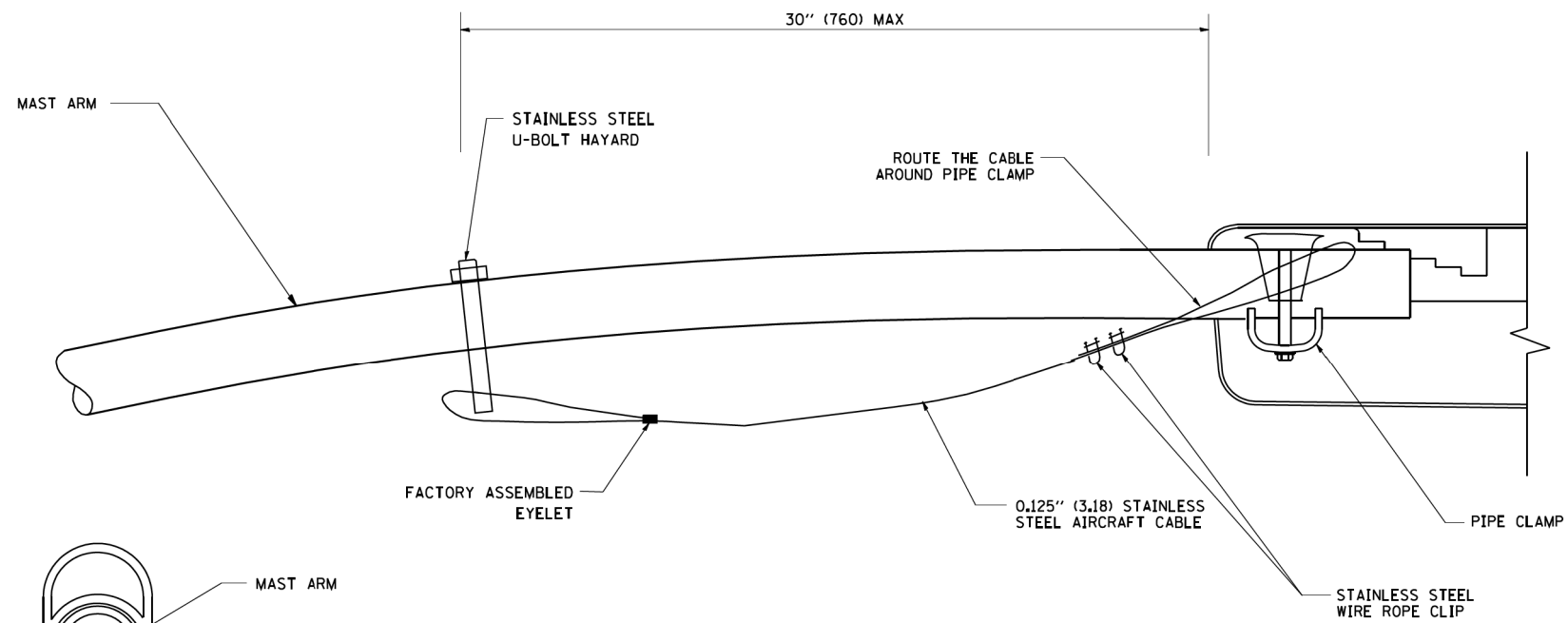
FILE NAME = W:\distad\22x34\be600.dgn	USER NAME = geglano	DESIGNED - DRAWN -	REVISED - 09-19-04 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN. PLOT DATE = 1/4/2008	CHECKED - DATE -			SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	BE-600	CONTRACT NO.	759	640
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



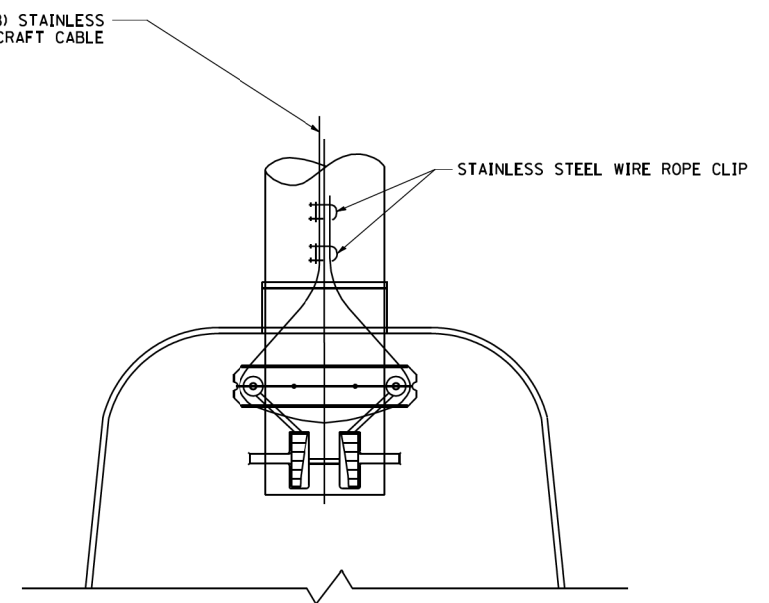
FILE NAME = W:\distad\22x34\be600.dgn	USER NAME = geglant	DESIGNED - DRAWN -	REVISED - 09-19-04 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE			F.A. RTE. -	SECTION	COUNTY	TOTAL SHEETS 759	SHEET NO. 641
PLOT SCALE = 50.0000' / IN.	PLOT DATE = 1/4/2008	CHECKED - DATE -	SCALE: NONE		SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	BE-600		CONTRACT NO.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



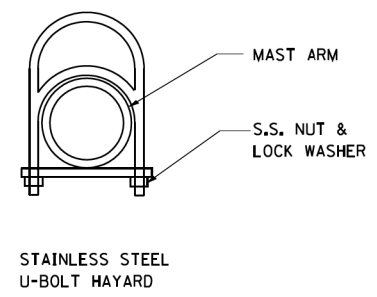
SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.

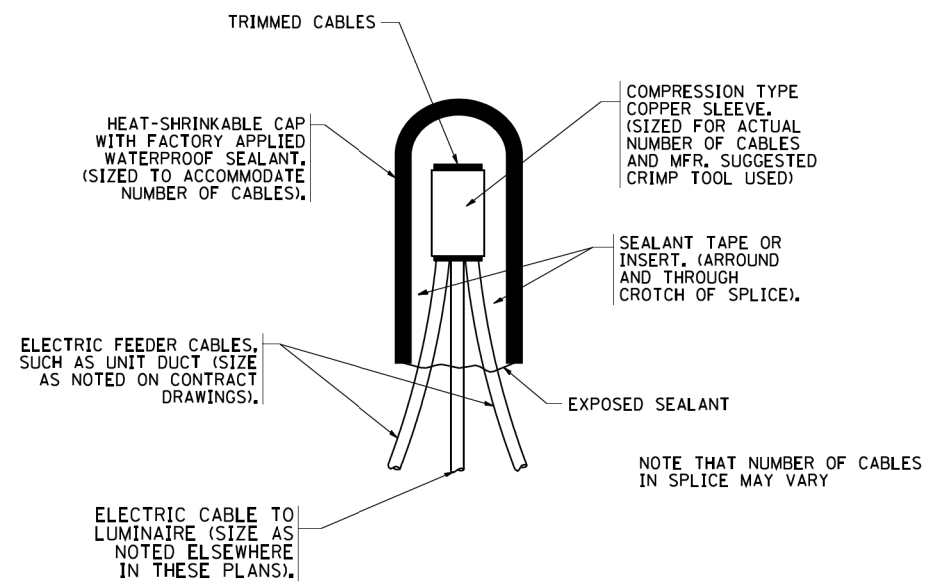


BOTTOM VIEW
N.T.S.



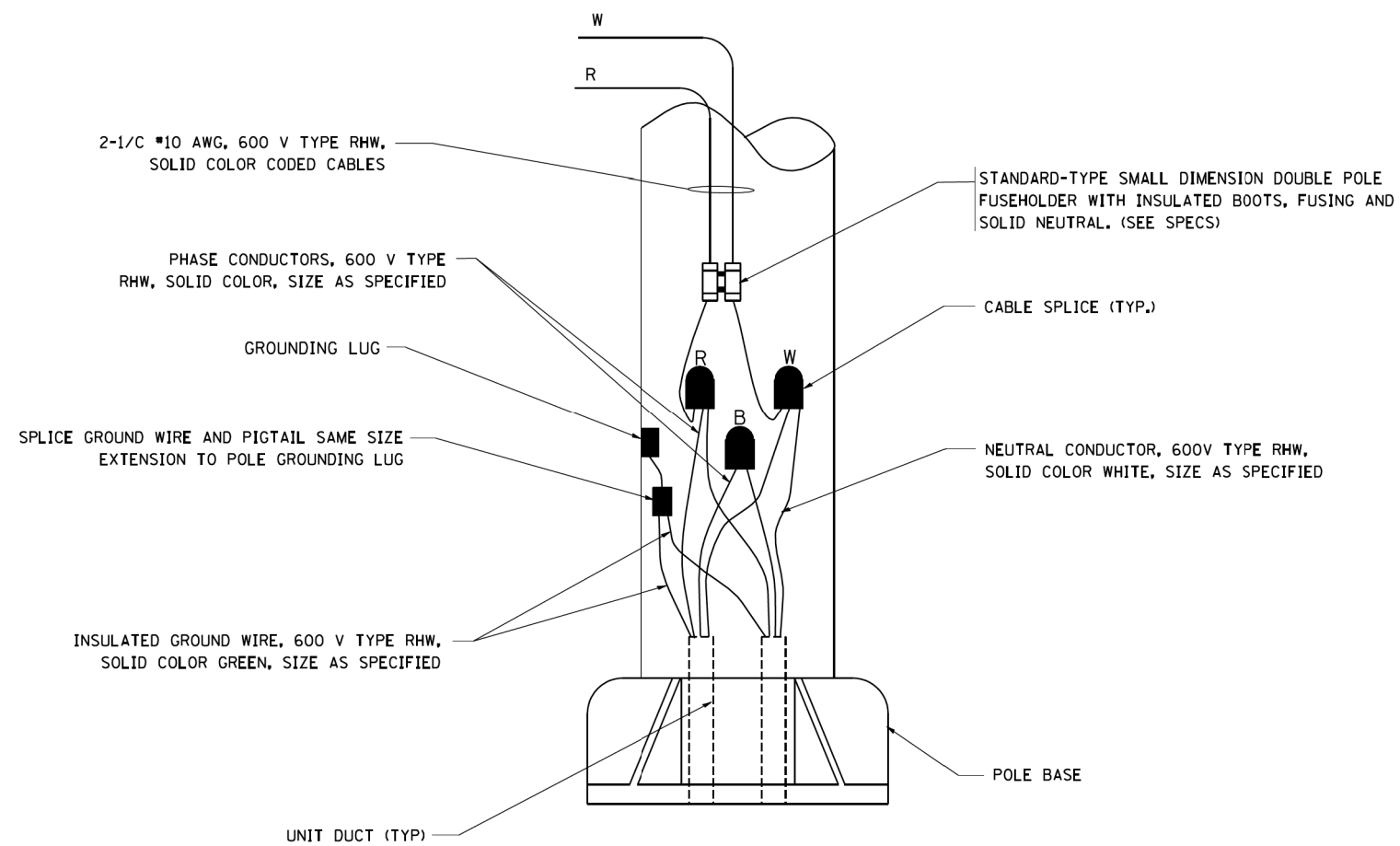
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = W:\diststd\22x34\be701.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN. PLOT DATE = 1/4/2008	CHECKED - DATE -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-701	CONTRACT NO.	759	642
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



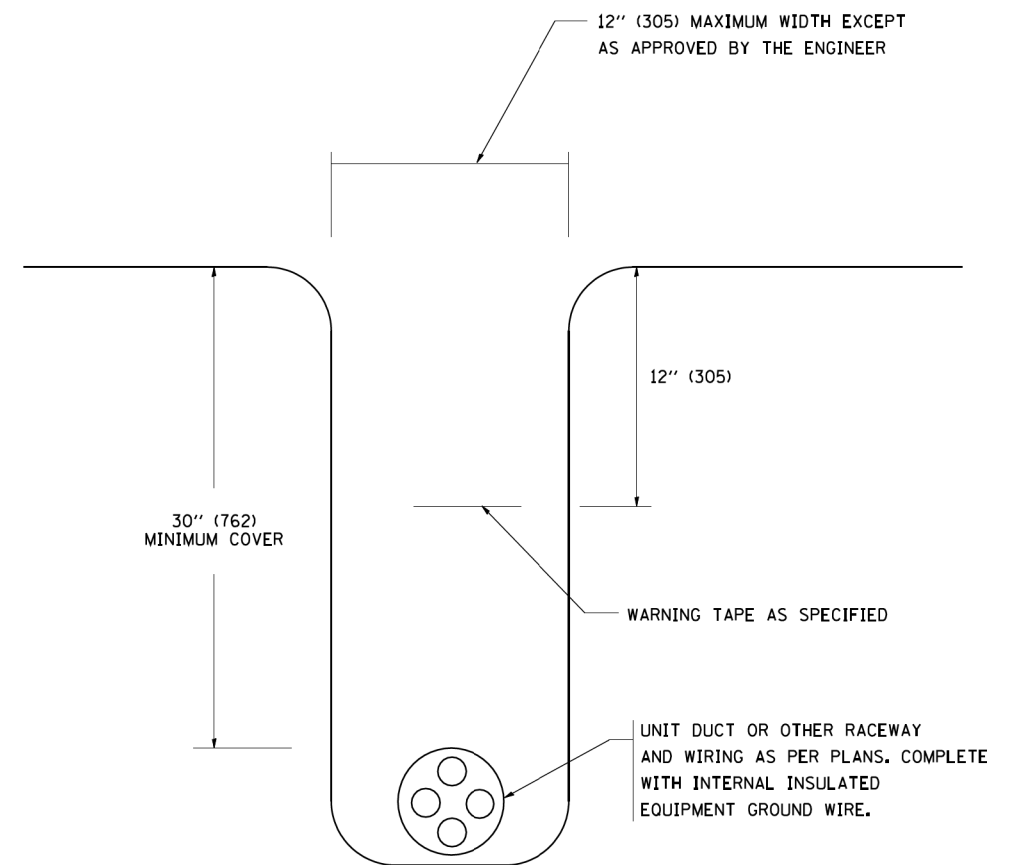
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME = W:\distad\22x34\be702.dgn

USER NAME = geglano

DESIGNED - 08-08-03

DRAWN -

PLOT SCALE = 50.000' / IN.

CHECKED -

PLOT DATE = 1/4/2008

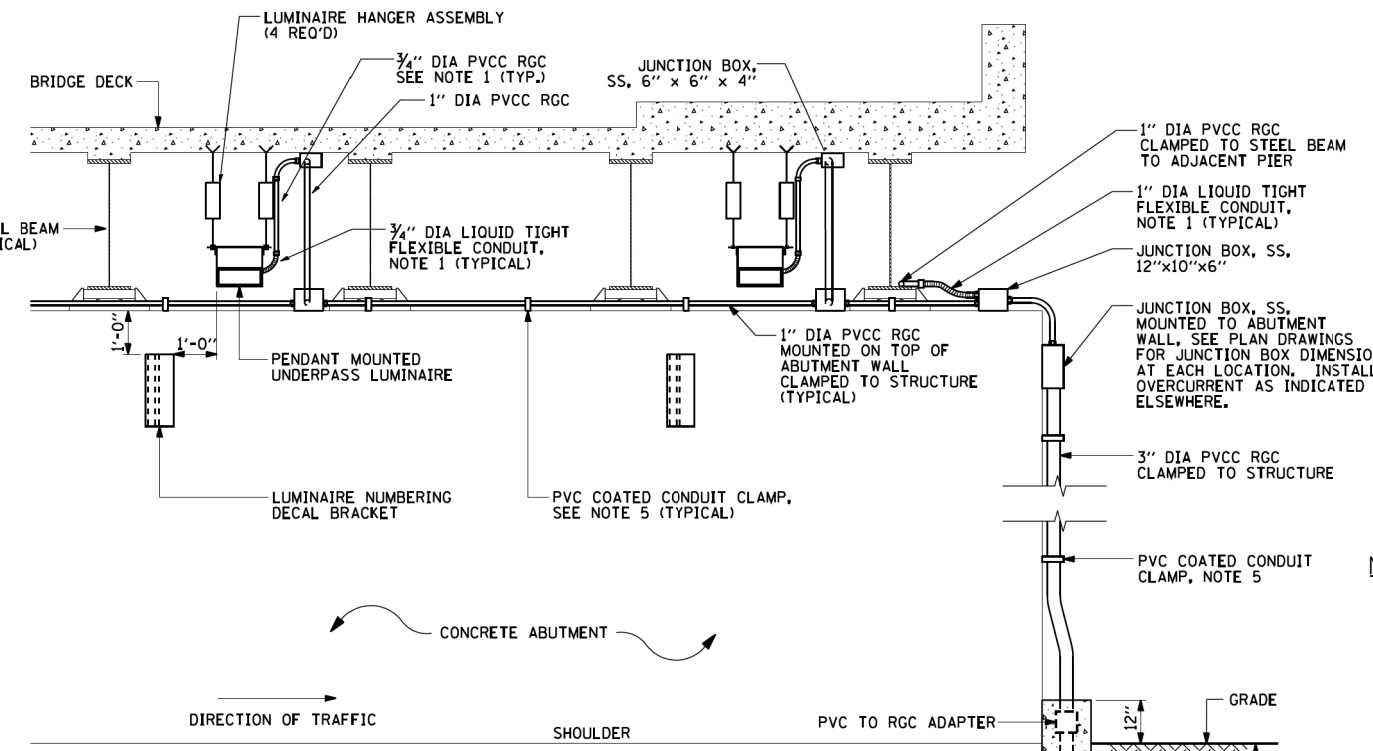
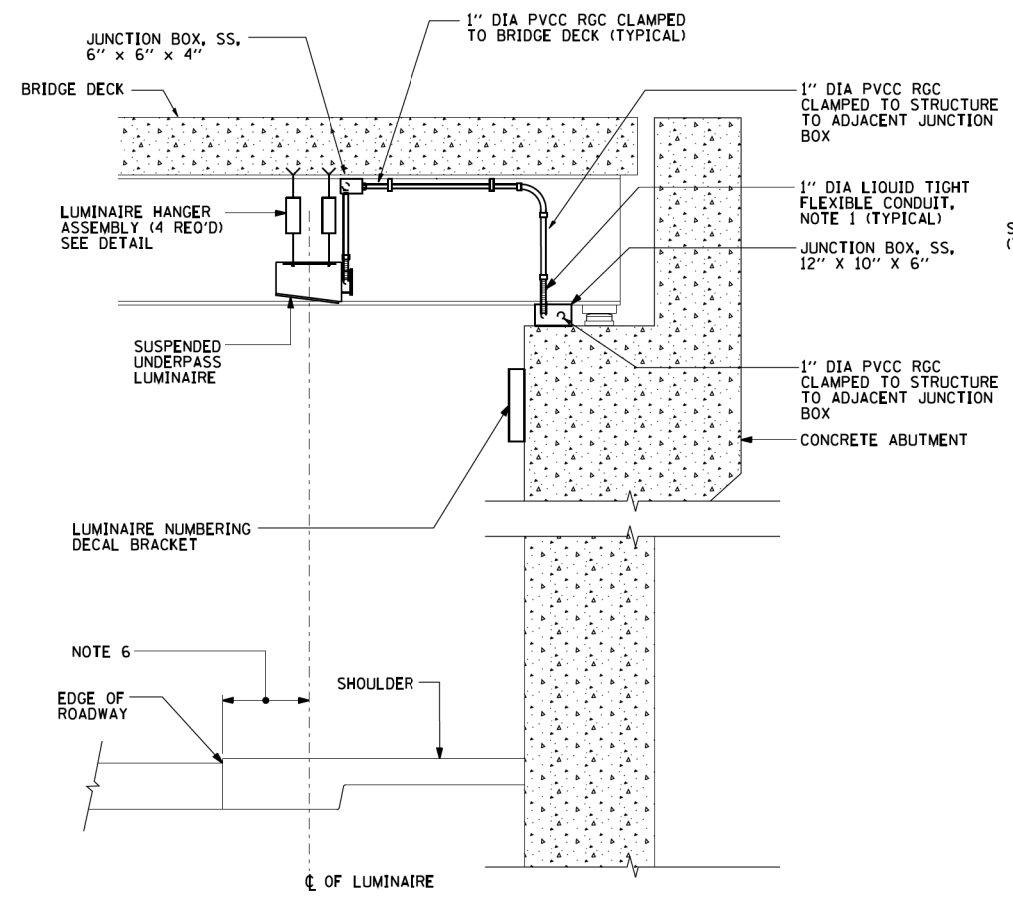
DATE -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

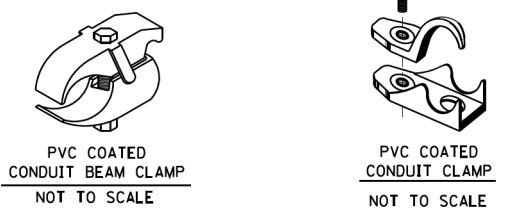
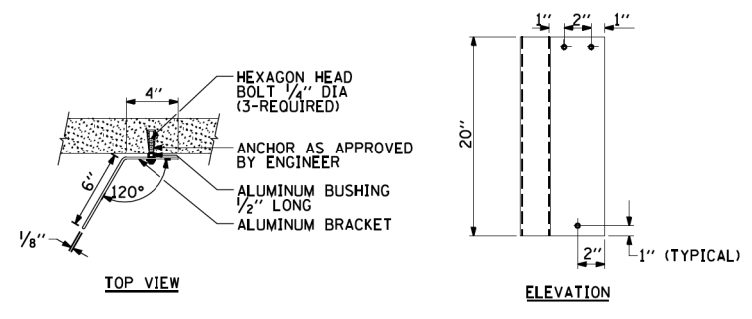
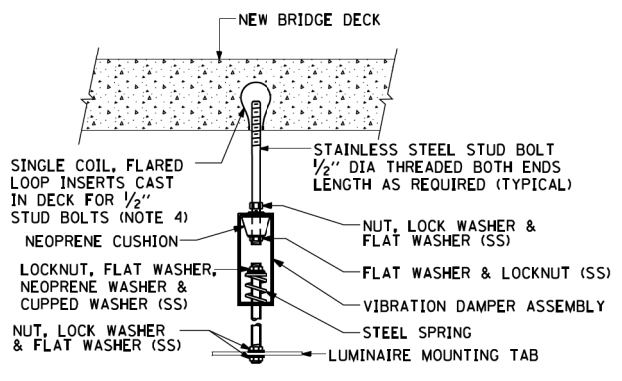
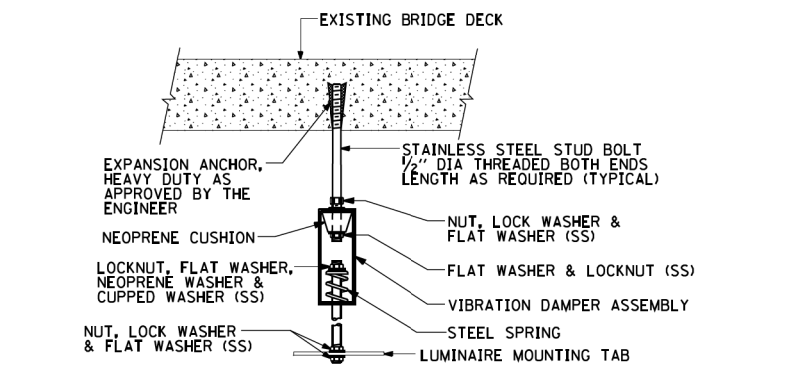
**MISC. ELECTRICAL DETAILS
SHEET A**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-702		759	643
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN, PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR, SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

FILE NAME = W:\d\stata\22x34\be900.dgn

USER NAME = geglanoht
 PLOT SCALE = 50.000' / IN.
 PLOT DATE = 1/4/2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

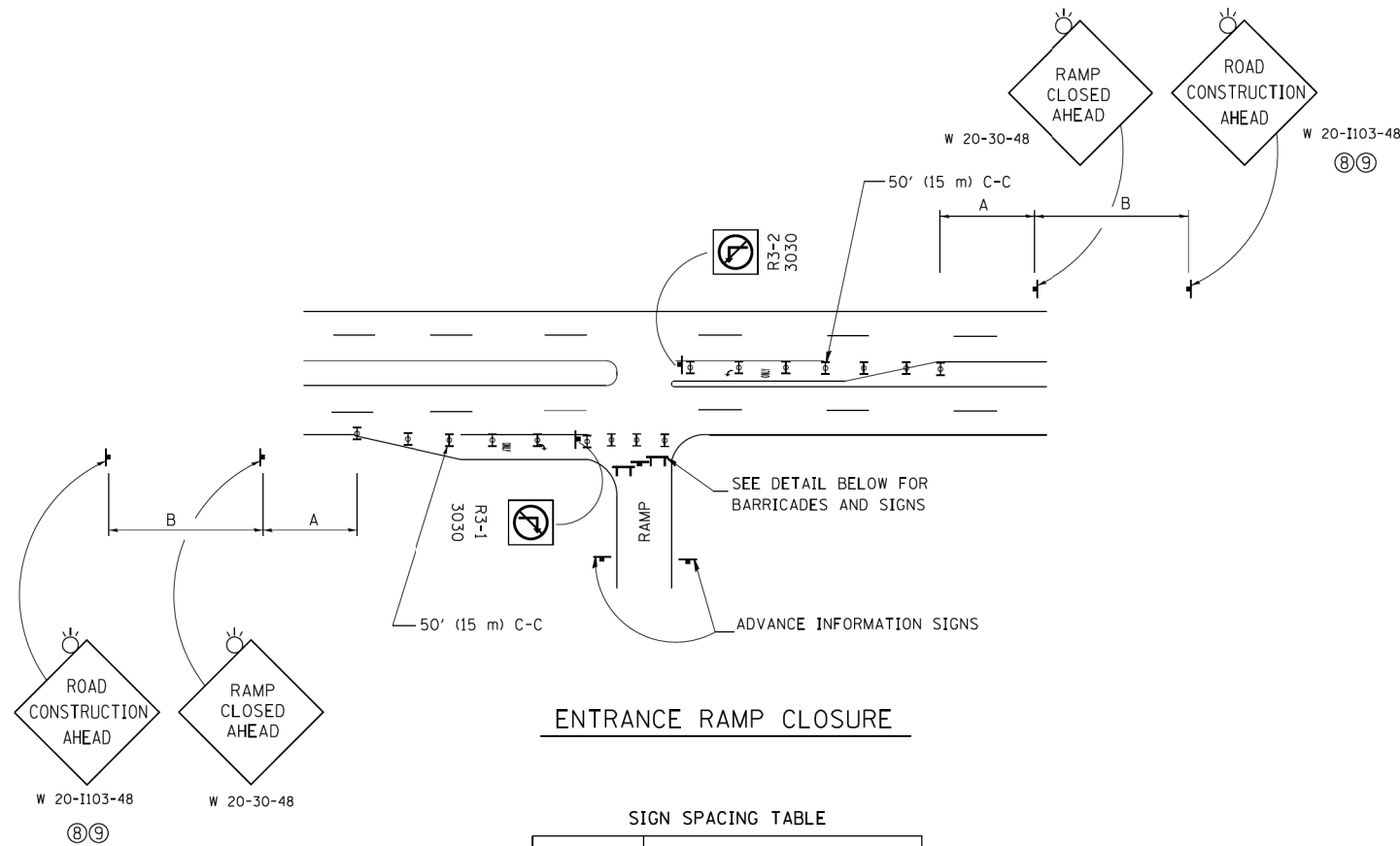
REVISED - 12-12-05
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUSPENDED MOUNT UNDERPASS
 LUMINAIRE INSTALLATION DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-900		759	644
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	

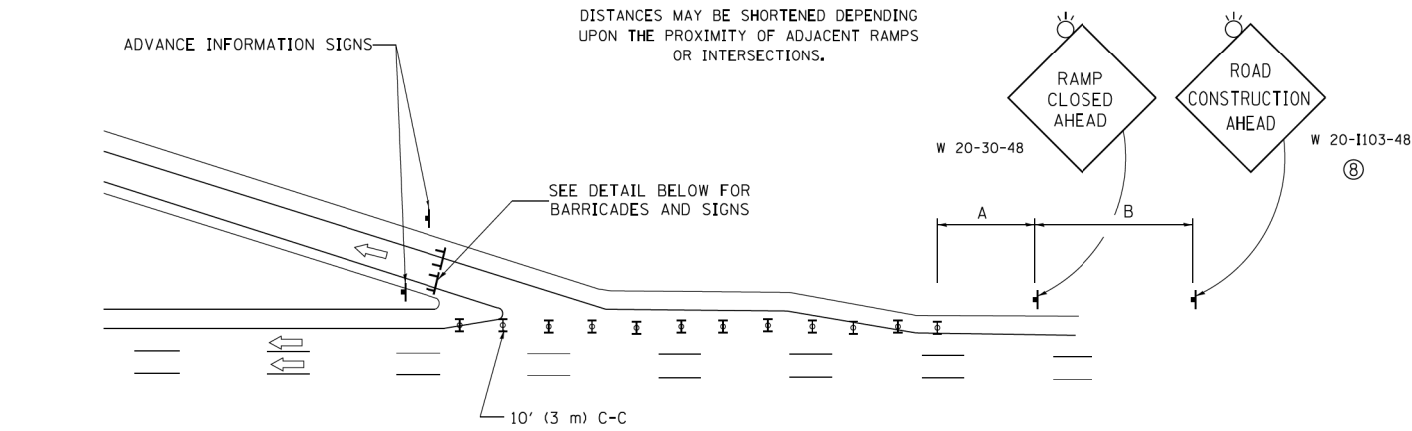


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

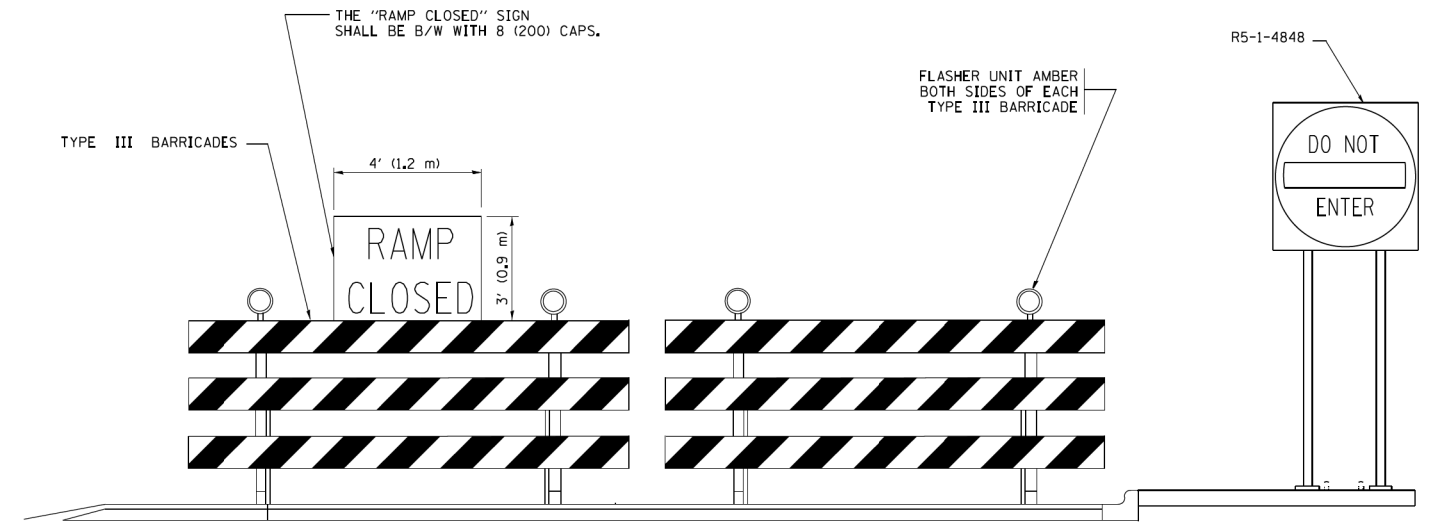
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

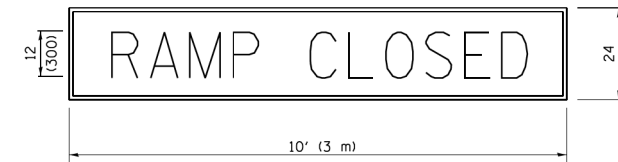
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

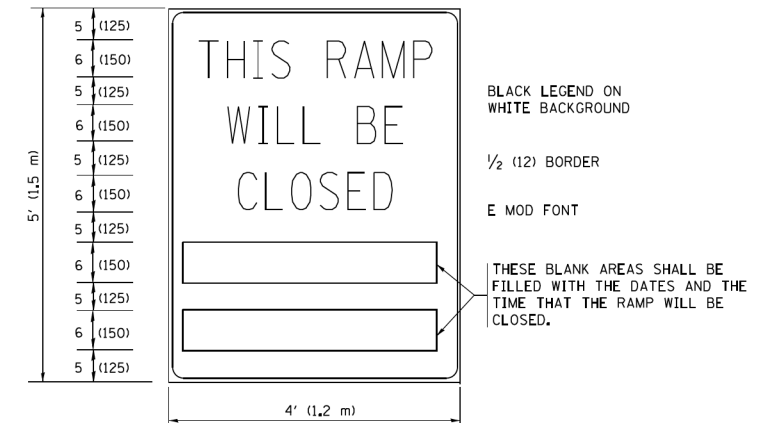
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
ca:\pwork\pwork\footemj\d0108315\to08.sgn		DRAWN -	REVISED - SPB 01-07
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

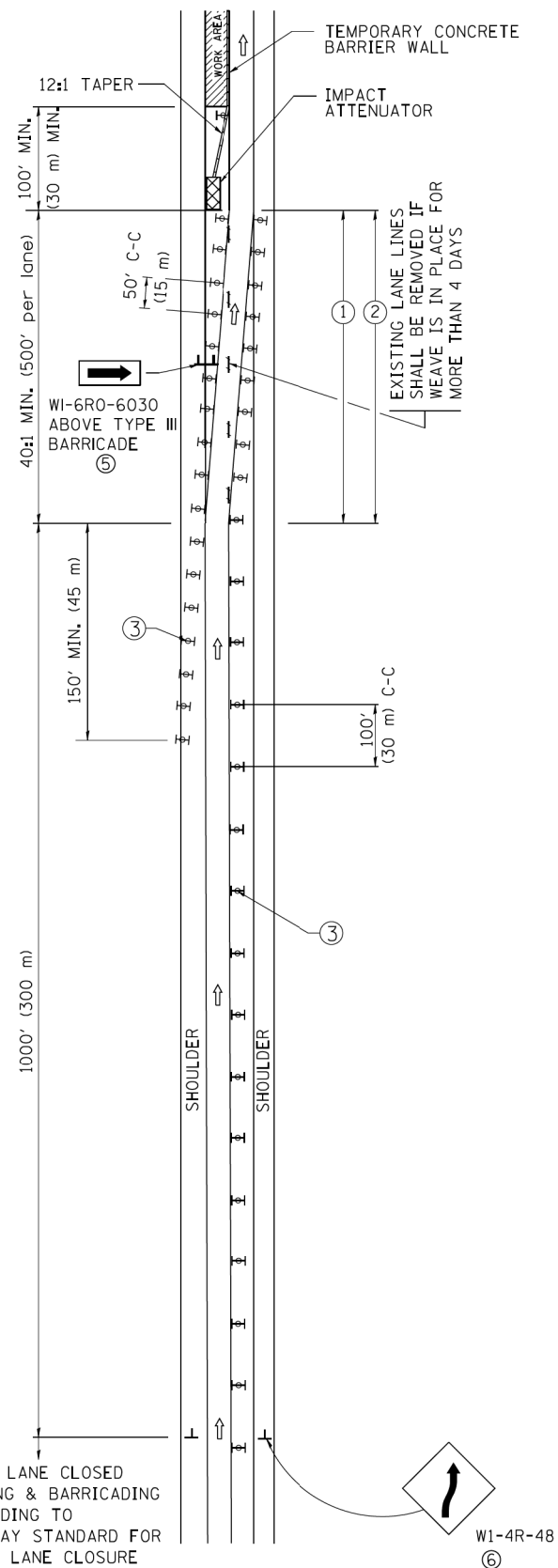
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

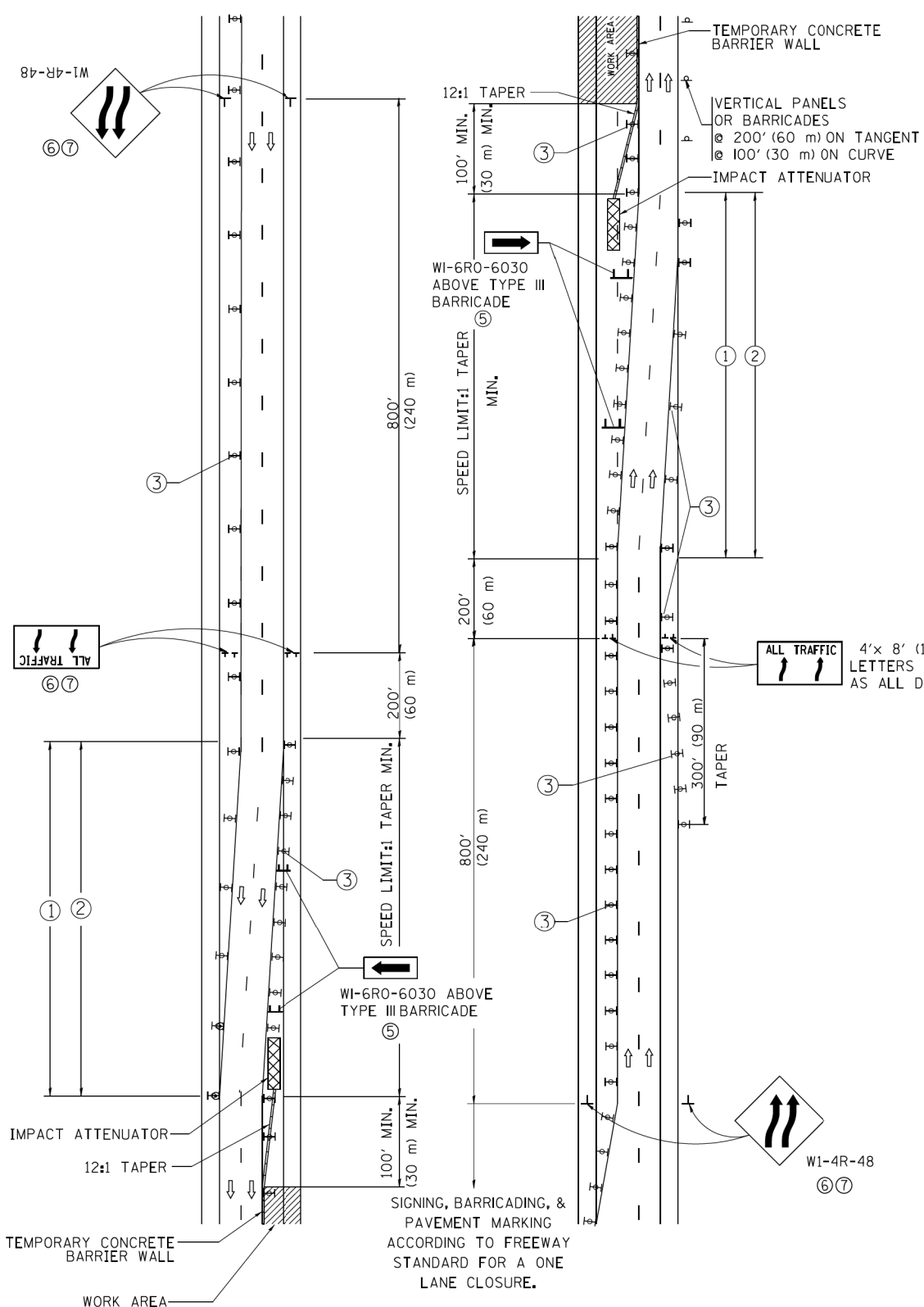
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-08		759	645
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y95	

SINGLE LANE WEAVE



MULTI-LANE WEAVE



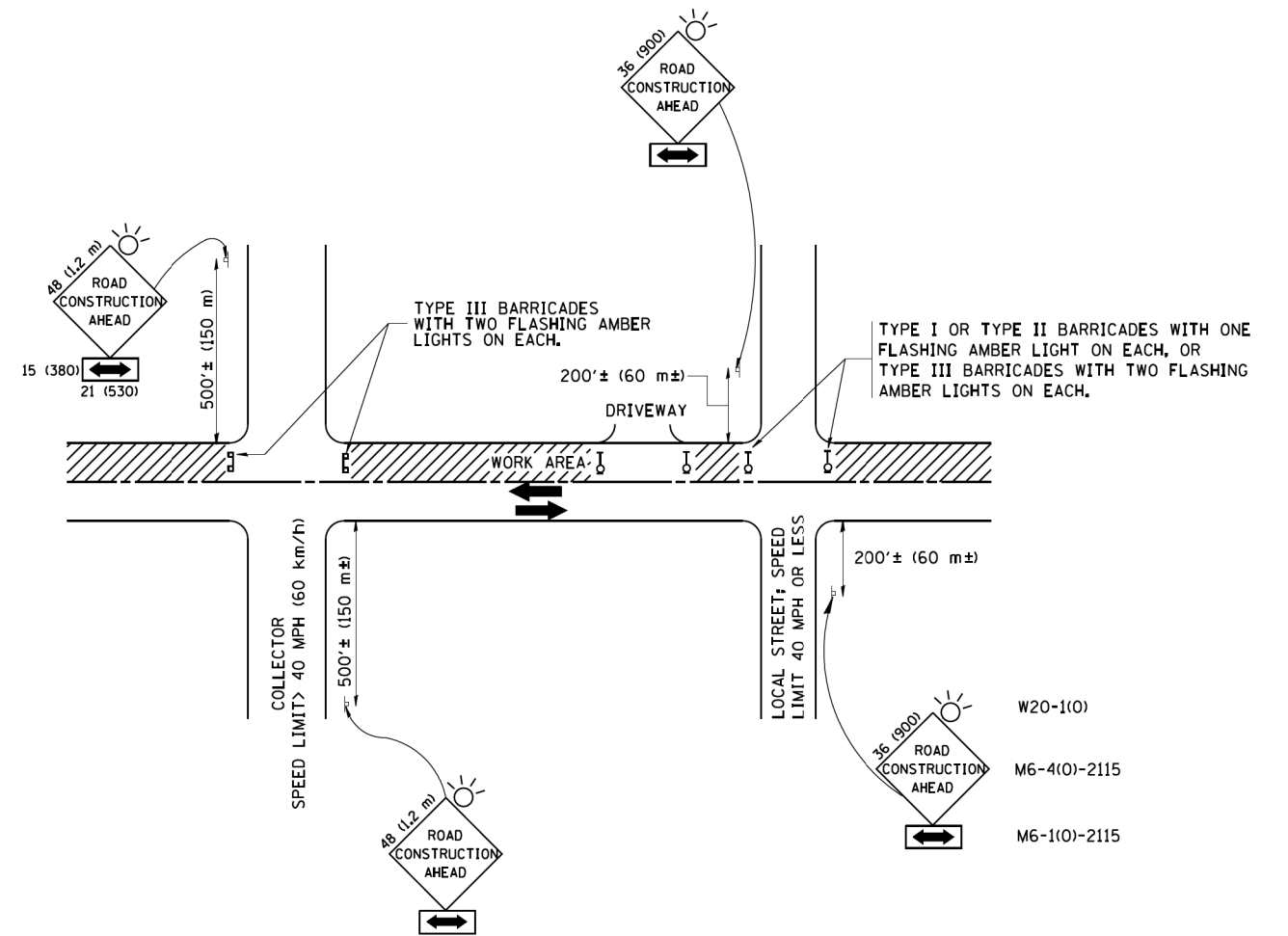
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

- ### SYMBOLS
- DIRECTION OF TRAFFIC
 - WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
 - TEMPORARY CONCRETE BARRIER WALL
 - IMPACT ATTENUATOR
 - W1-4R-48 (6, 7)
 - W24-1-48 (7)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\footemj\d0108315\td09.sgn		DRAWN -	REVISED - SPB 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	DUPAGE	759	646	
		CHECKED -	REVISED - SPB 12-09					TC-09		CONTRACT NO. 60Y95		
		DATE - 02-87	REVISED - MD 06-13					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

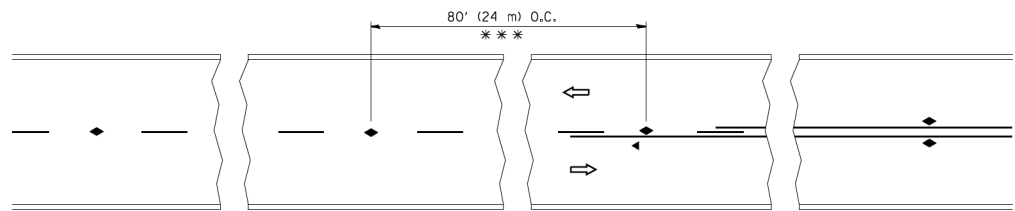
FILE NAME = W:\diststd\22x34\td10.dgn	USER NAME = geglanoht	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

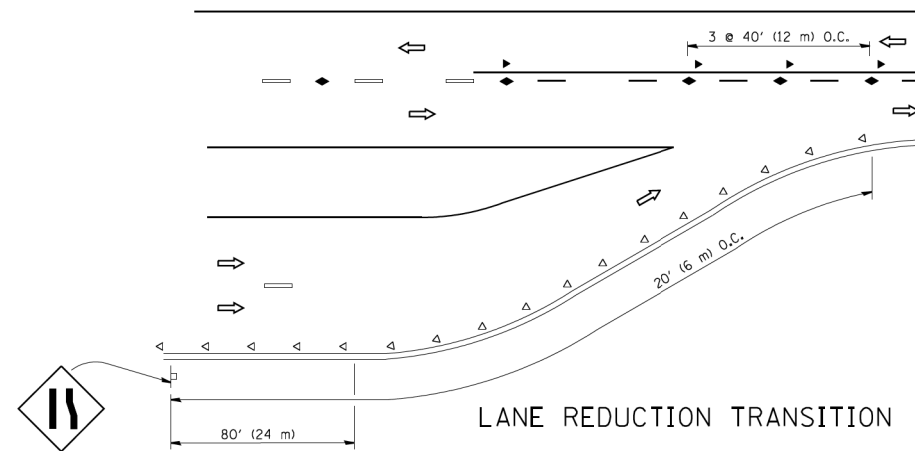
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y95	

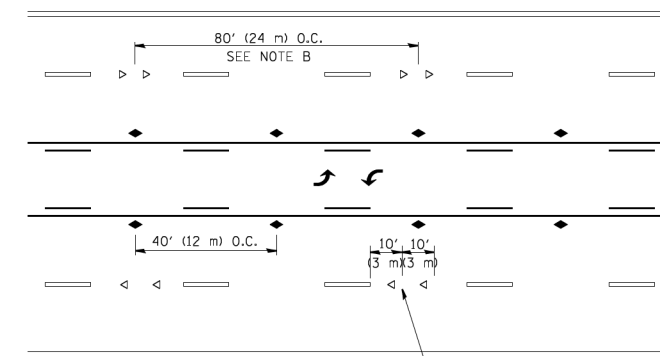


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

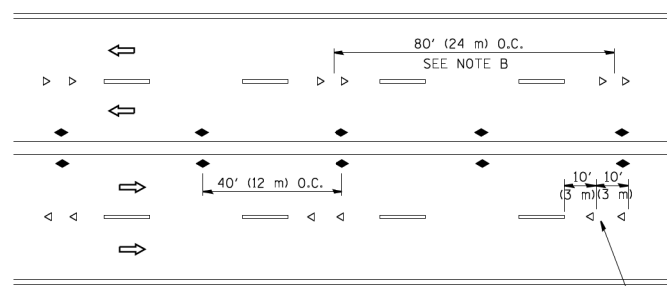
TWO-LANE/TWO-WAY



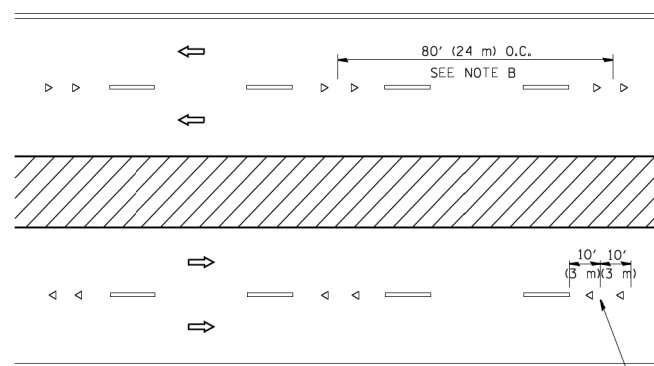
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

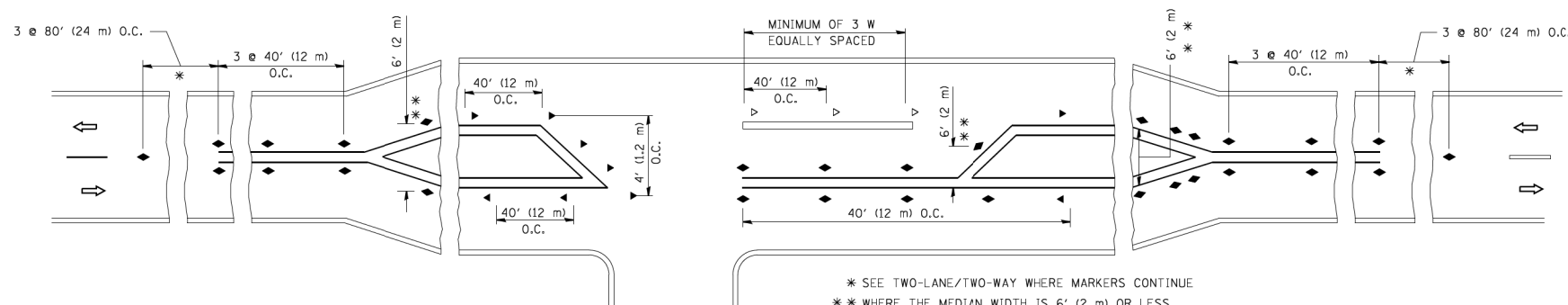
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

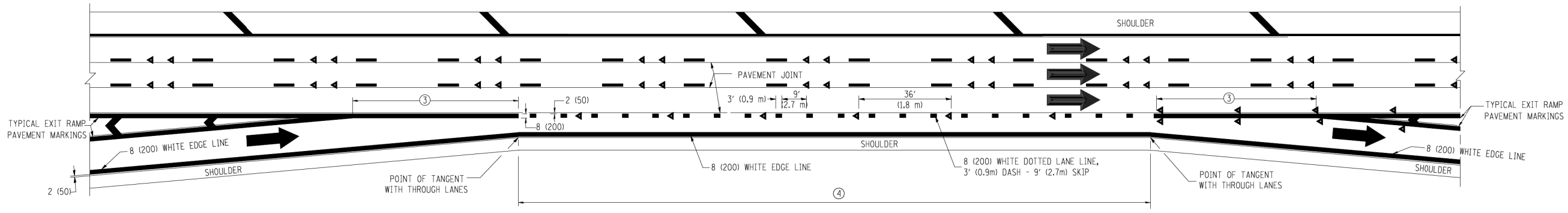
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = lveysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ca:\pki\work\pki\dot\lveysa\d0108315\tcl1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
		PLOT SCALE = 50.000' / IN.	REVISED - T. RAMMACHER 01-06-00
		DATE -	REVISED - C. JUCIUS 09-09-09

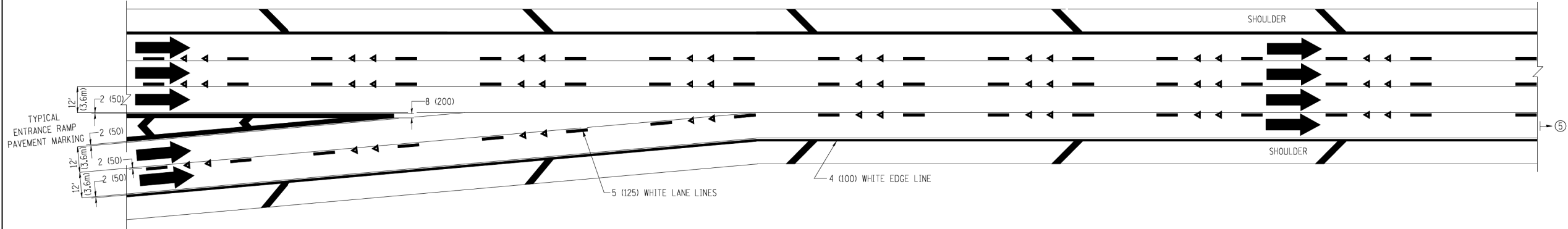
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

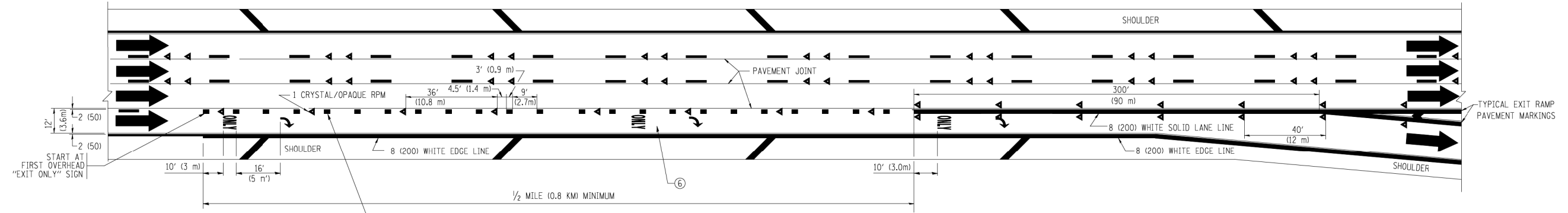
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	759	648
TC-11			CONTRACT NO. 60Y95	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



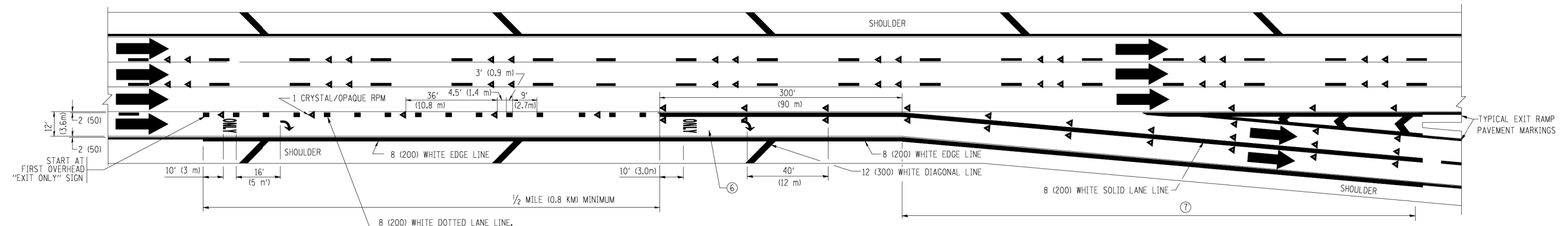
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



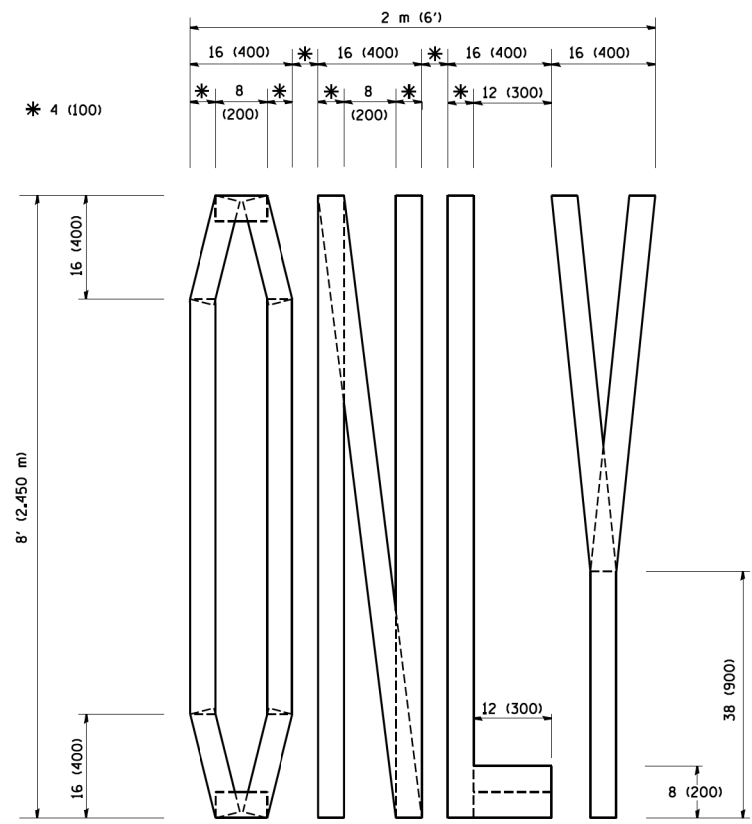
EXIT ONLY LANE MARKINGS



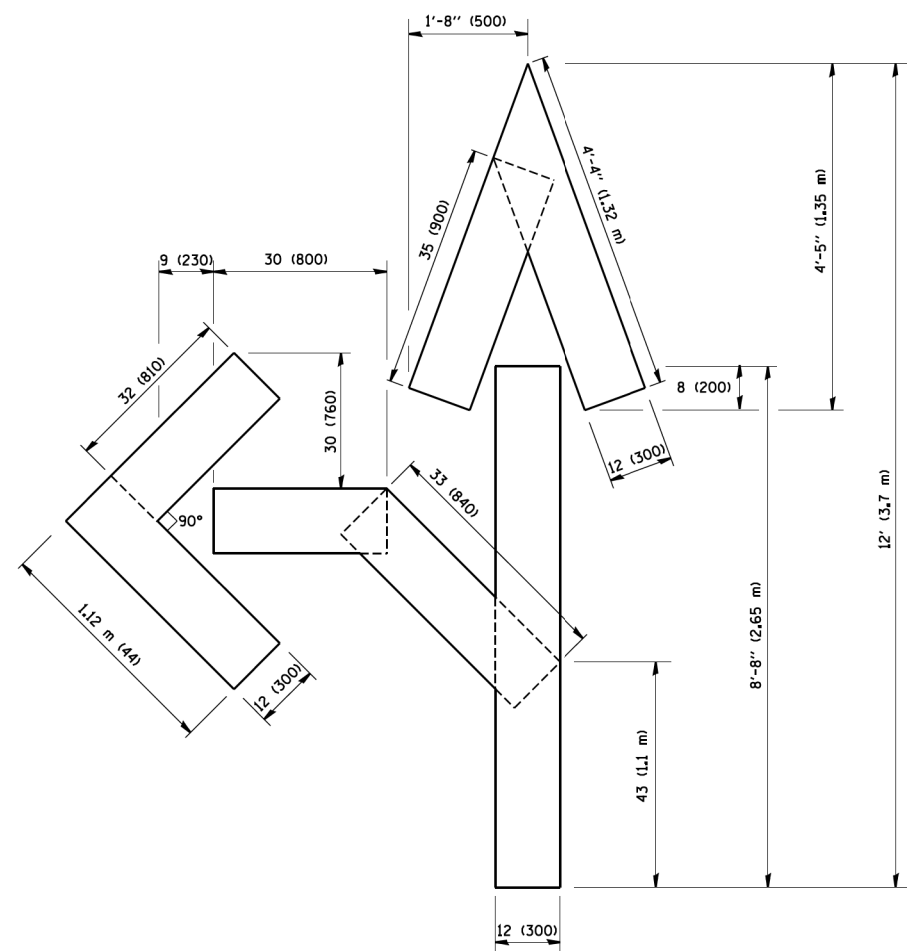
EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

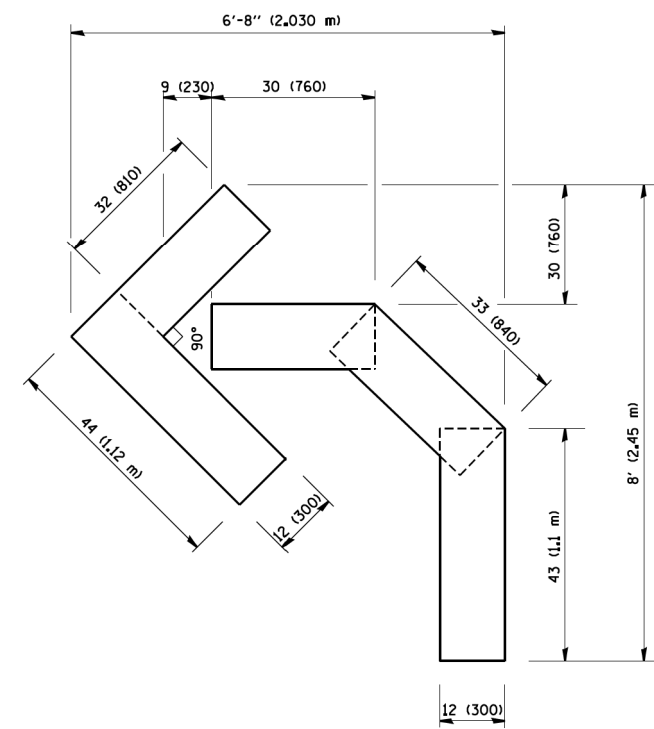
FILE NAME =	USER NAME = luyaa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\p\WIDOT\LEYSAN\0108315\ta12.dgn		DRAWN -	REVISED - J.A.F. 02-06		SCALE: NONE	SHEET NO. 2	OF 2 SHEETS	STA.	TO STA.	DUPAGE	759	650
		PLOT SCALE = 50.000' / IN.	REVISED - S.P.B. 01-07					TC-12		CONTRACT NO. 60Y95		
		PLOT DATE = 1/22/2010	DATE - 01-90		REVISED - S.P.B. 01-10				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\tbl6.dgn	USER NAME = geglantobt	DESIGNED -	REVISED - T. RAMMACHER 06-05-96
		DRAWN -	REVISED - T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00

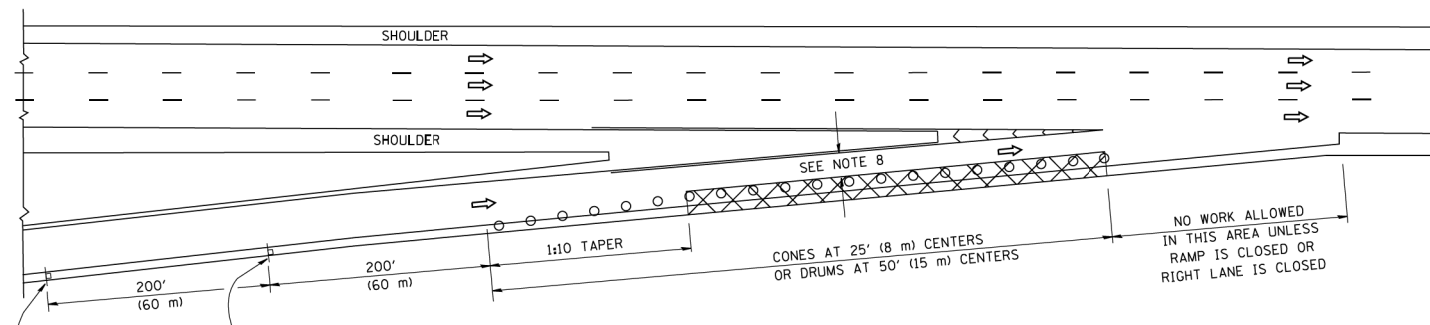
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

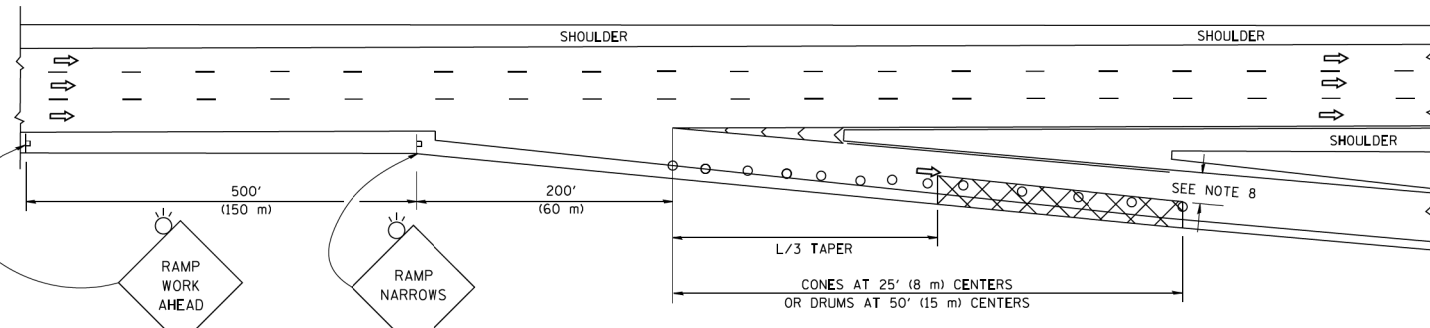
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-16		759	652
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y95	

PARTIAL RAMP CLOSURE DETAILS

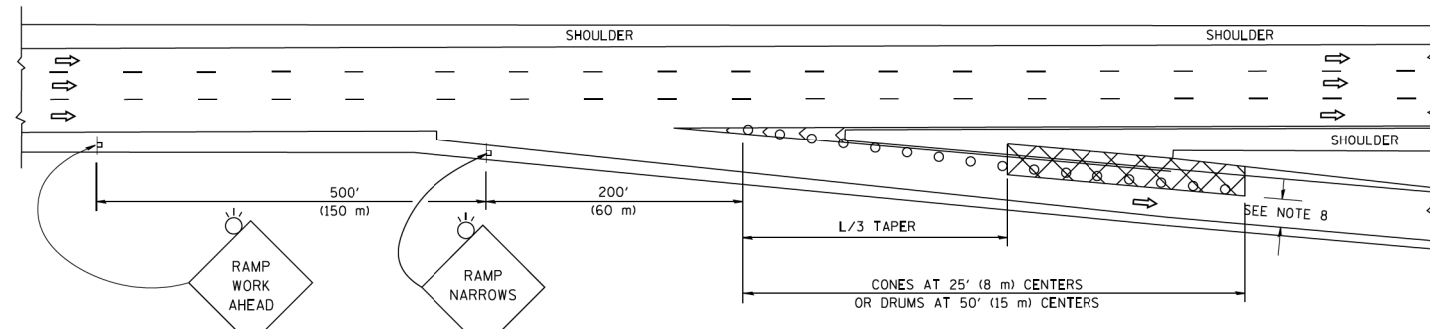
SHOULDER CLOSURE DETAILS



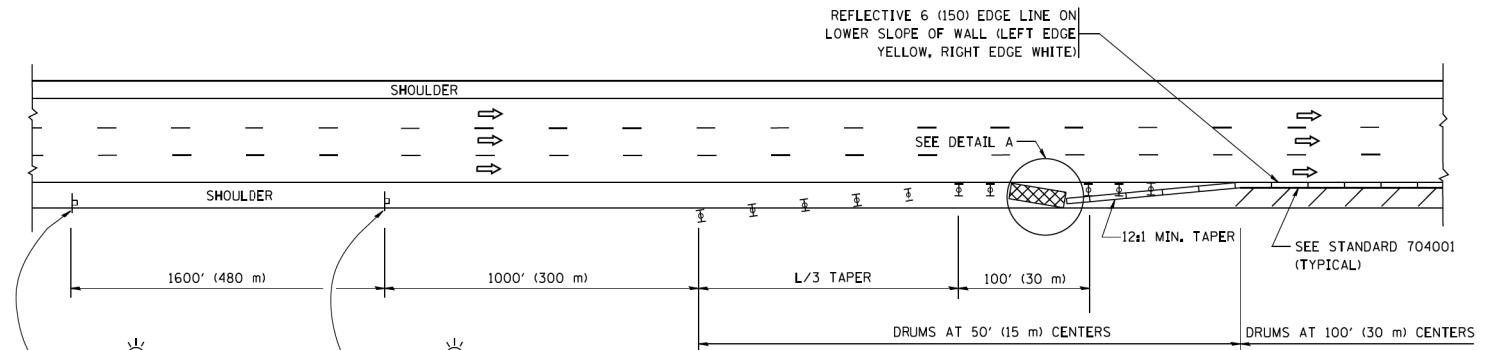
TYPICAL ENTRANCE RAMP



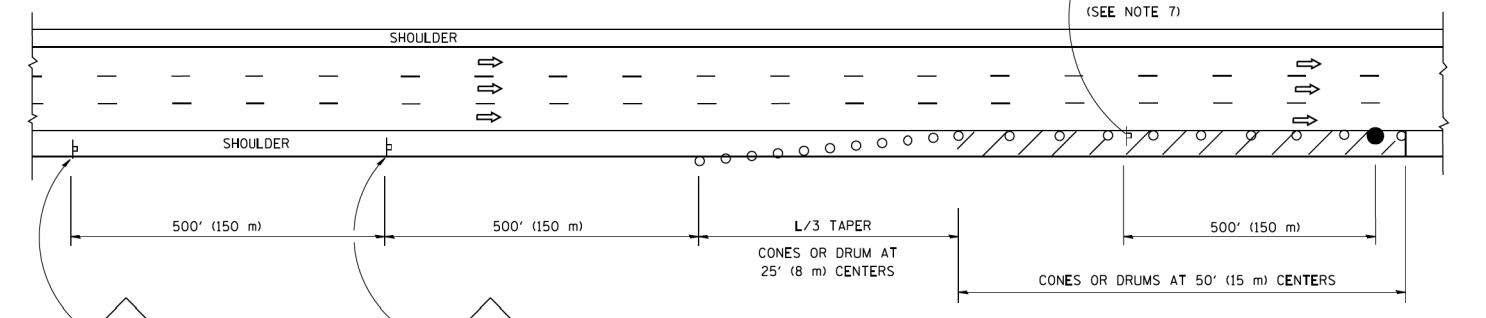
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

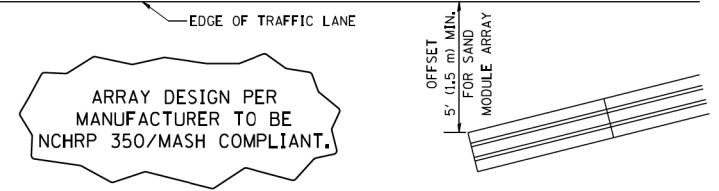
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION
16" MIN. WIDTH CURVE SECTION.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

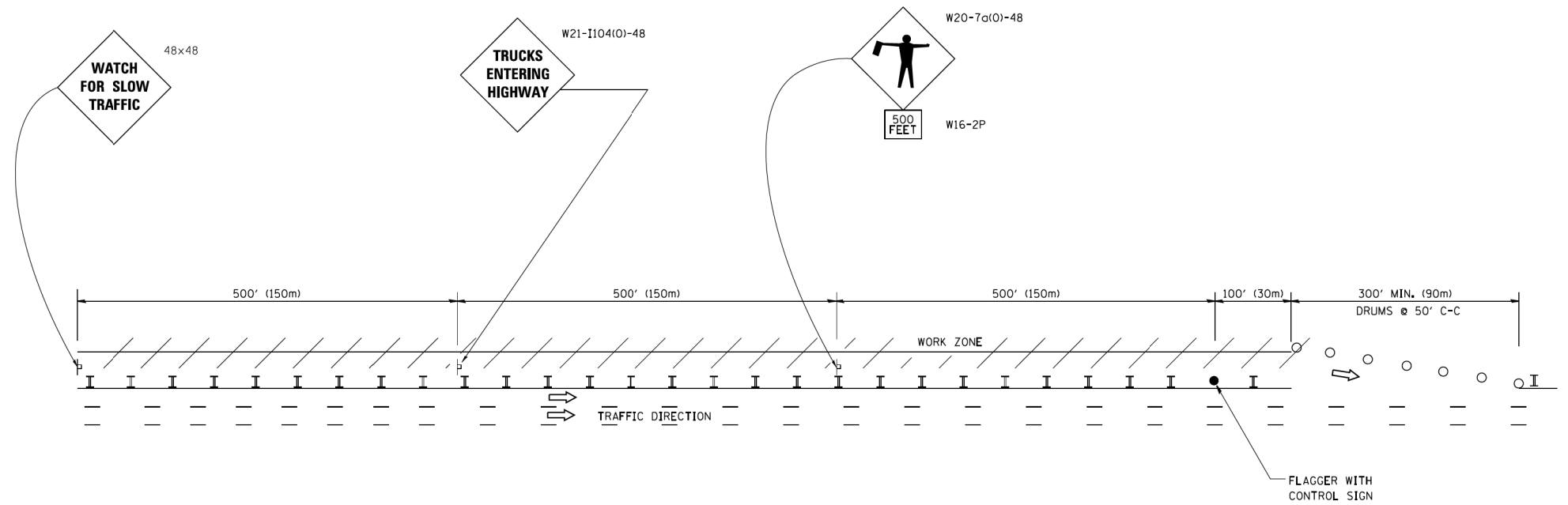


ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

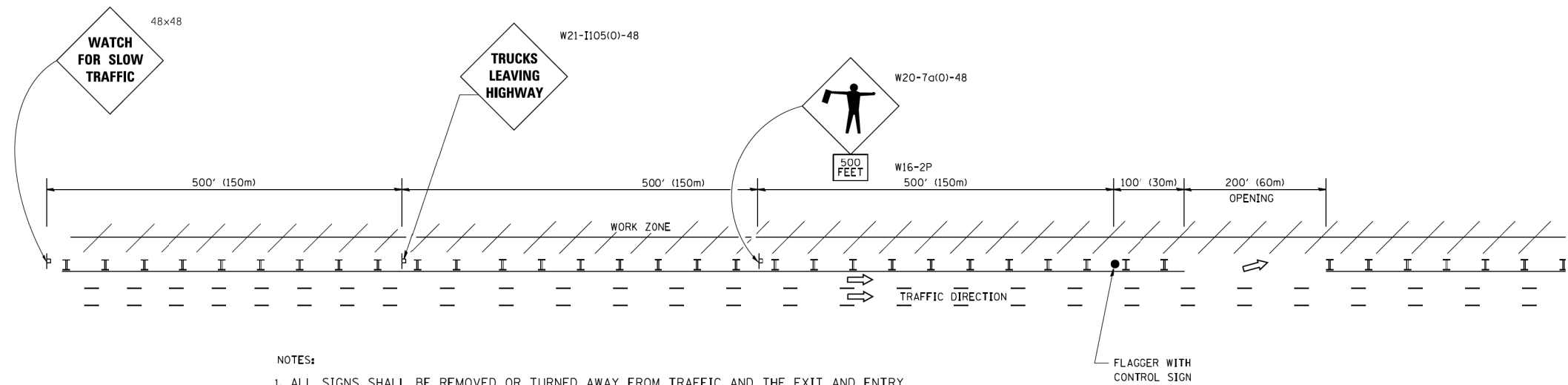
FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\p\work\p\dot\footemj\d0108315\tcl7.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07								
PLOT SCALE = 50.0000' / 1in.		CHECKED -	REVISED - S.P.B. 12-09								
PLOT DATE = 7/1/2013		DATE - 11-96	REVISED - M.D. 06-13								
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		TC-17	
					FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		CONTRACT NO. 46071		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING




NOTES:


1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.


ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\pwork\footemj\d0108315\tcl18.dgn		DRAWN -	REVISED - S.P.B. 01-07										
		CHECKED -	REVISED - S.P.B. 12-09		SCALE: NONE			SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	
		DATE -	REVISED - M.D. 06-13		TC-18			CONTRACT NO. 60Y95					
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									






ROUTE MARKERS

 FOR U.S. ROUTES
M1-40-2424






 FOR ILLINOIS ROUTES
M1-50-2424

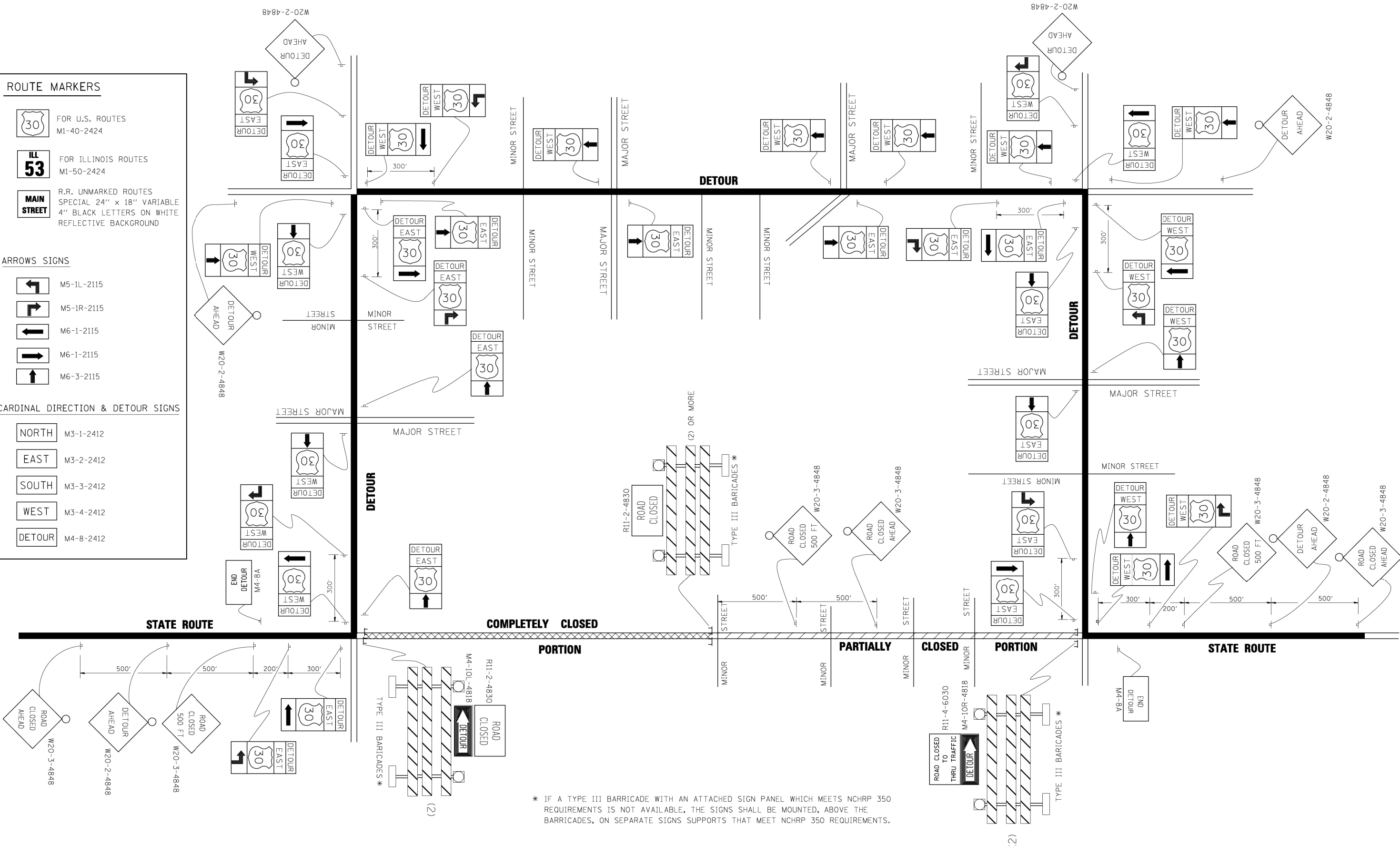
 R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

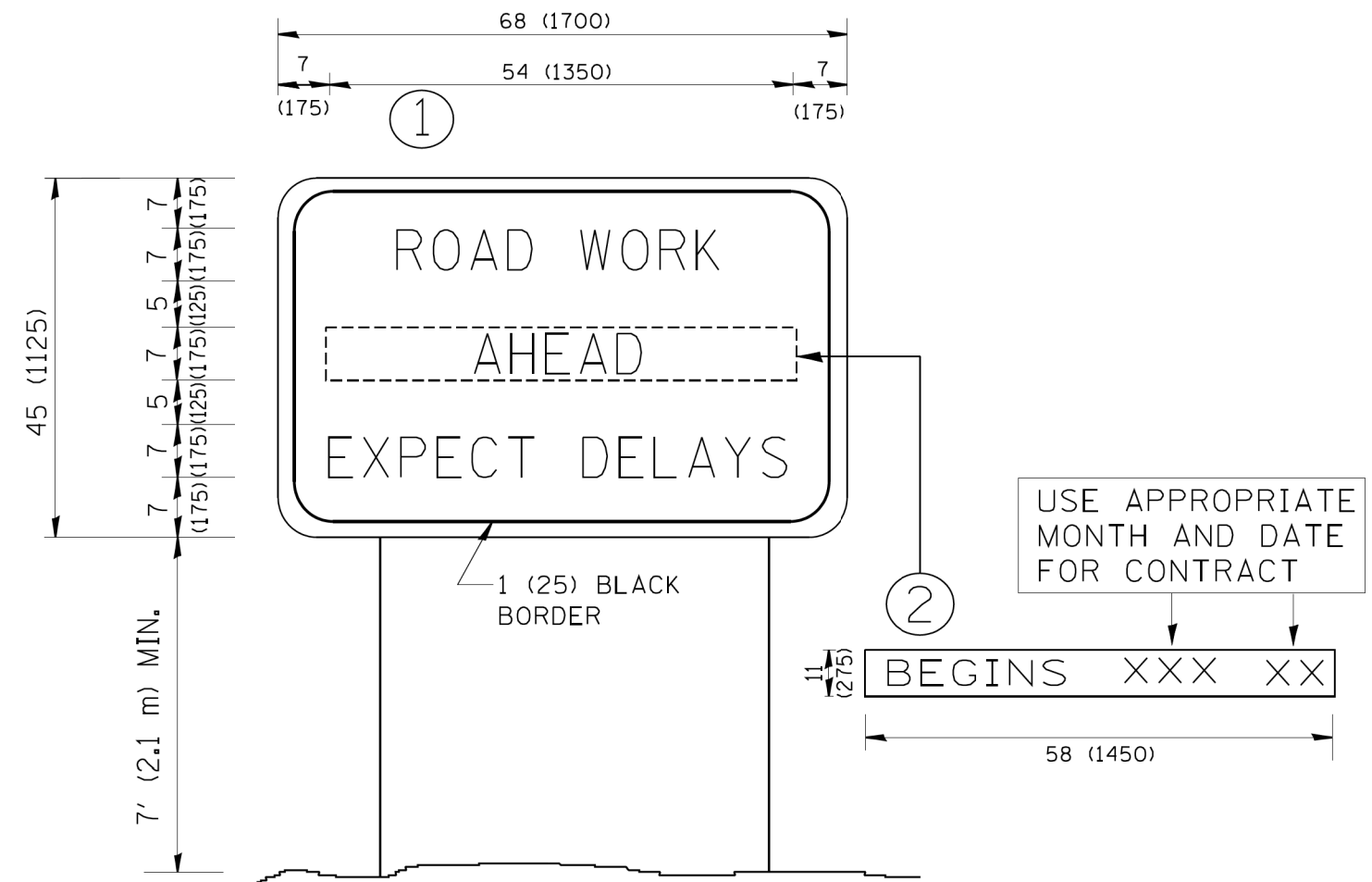
CARDINAL DIRECTION & DETOUR SIGNS

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = c:\p\work\p\WIDOT\DRIVAKOSGN\0108315\1221.dgn	USER NAME = drivakosgn	DESIGNED - DRAWN -	REVISED - 10-18-02 REVISED - R. BORO 09-14-09 REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 49.9999 / IN.	CHECKED -	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-21	DUPAGE	759	655
PLOT DATE = 9/14/2009								CONTRACT NO. 60Y95				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = geglanoht	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

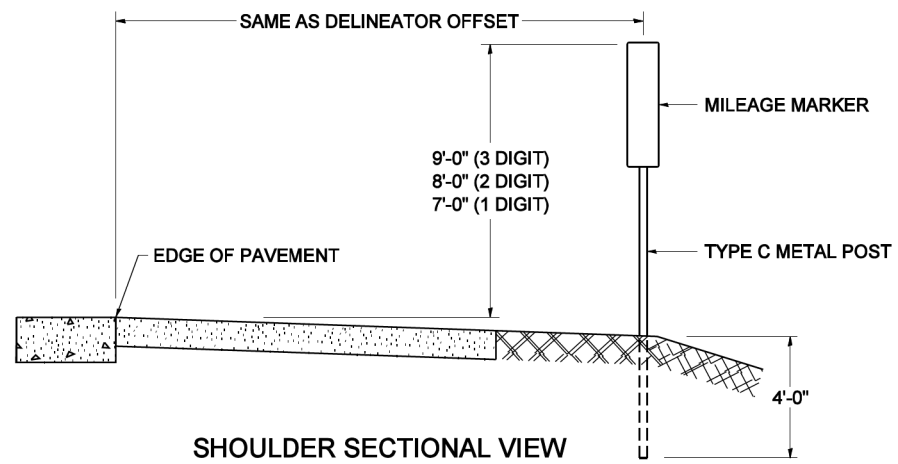
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

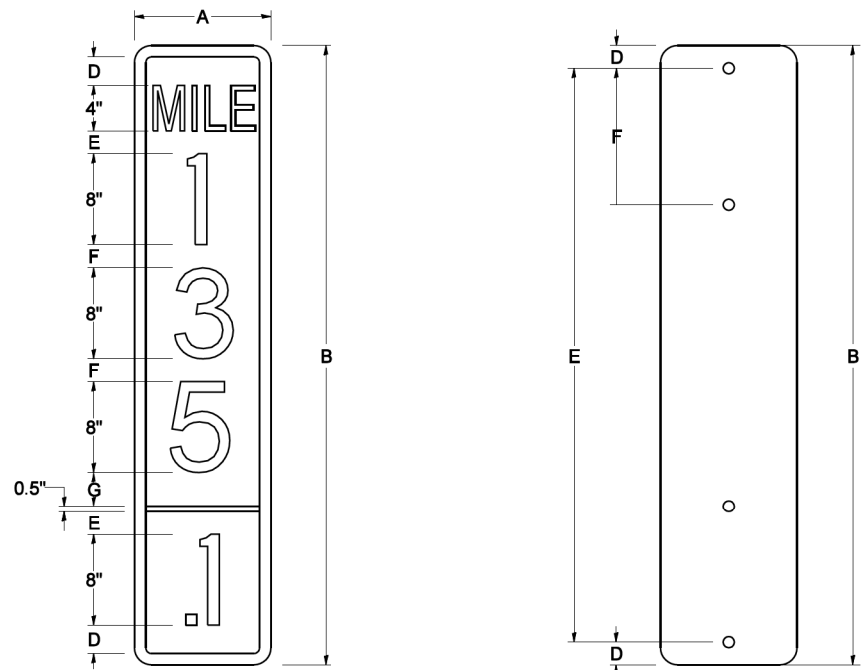
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-22		759	656
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y95	

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

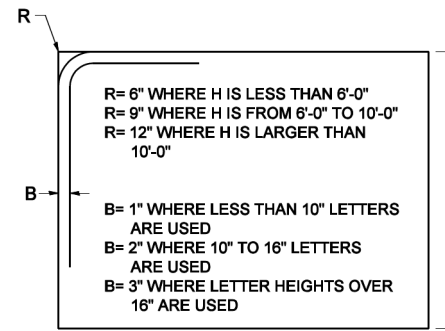


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

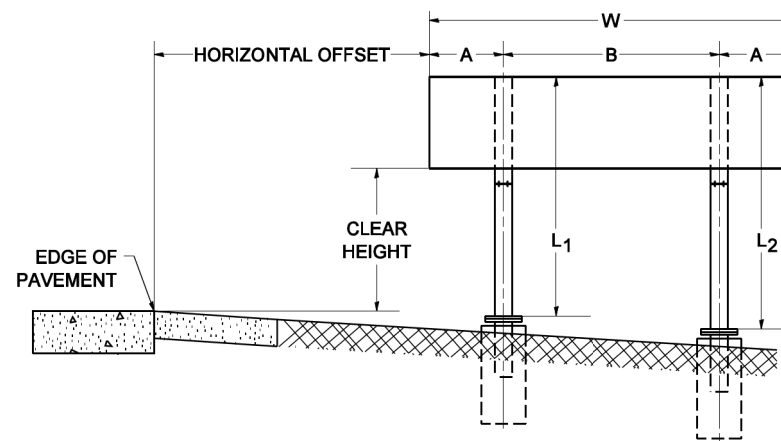
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BLANK STD.	
	LINES						
	1	2	3	4	5	BORDER	
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

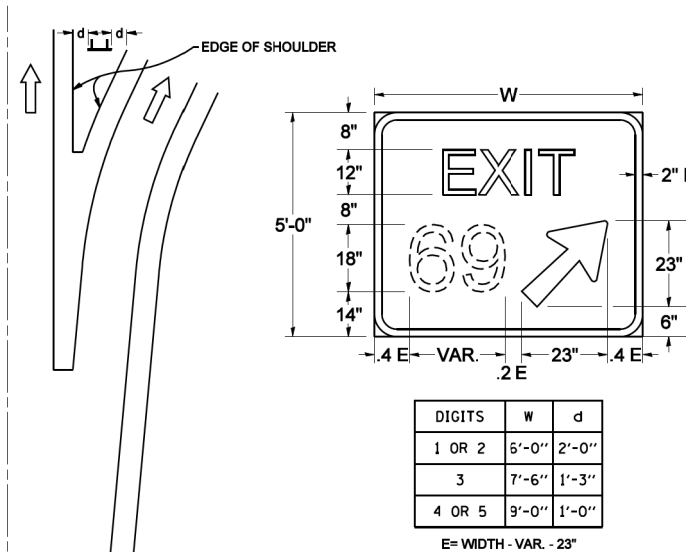


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

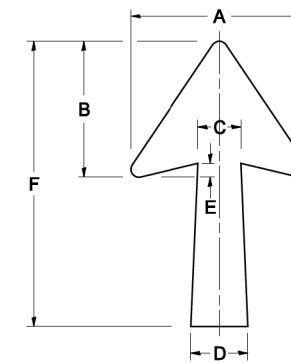
"L1 IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT."

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS."

GORE SIGNS

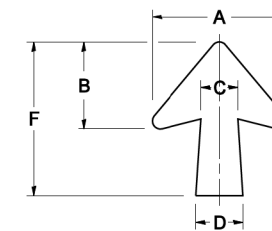


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



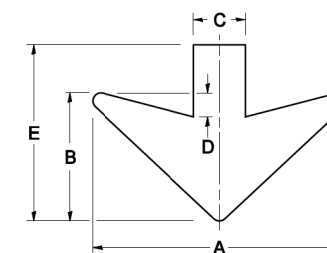
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 3/8	3 3/4	5	1 1/2	2 1/4	1/2
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	2 9/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	3 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 1/8	3 3/8		1 8/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS



ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 3/8	3 3/8	4 1/2	5/8	1 7/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	2 0/4	
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 3/8 x 8 1/8	8 1/8	5 3/8	2 3/8	2 3/8		9 3/8	1/2

DOWN ARROWS

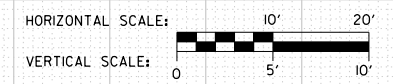


ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

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CH2MHILL

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PLOT SCALE = 20.0000' / in.	DRAWN - AS	REVISIED -
PLOT DATE = 10/28/2014	CHECKED - SML	REVISIED -
	DATE - 07/07/2014	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

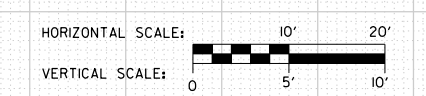
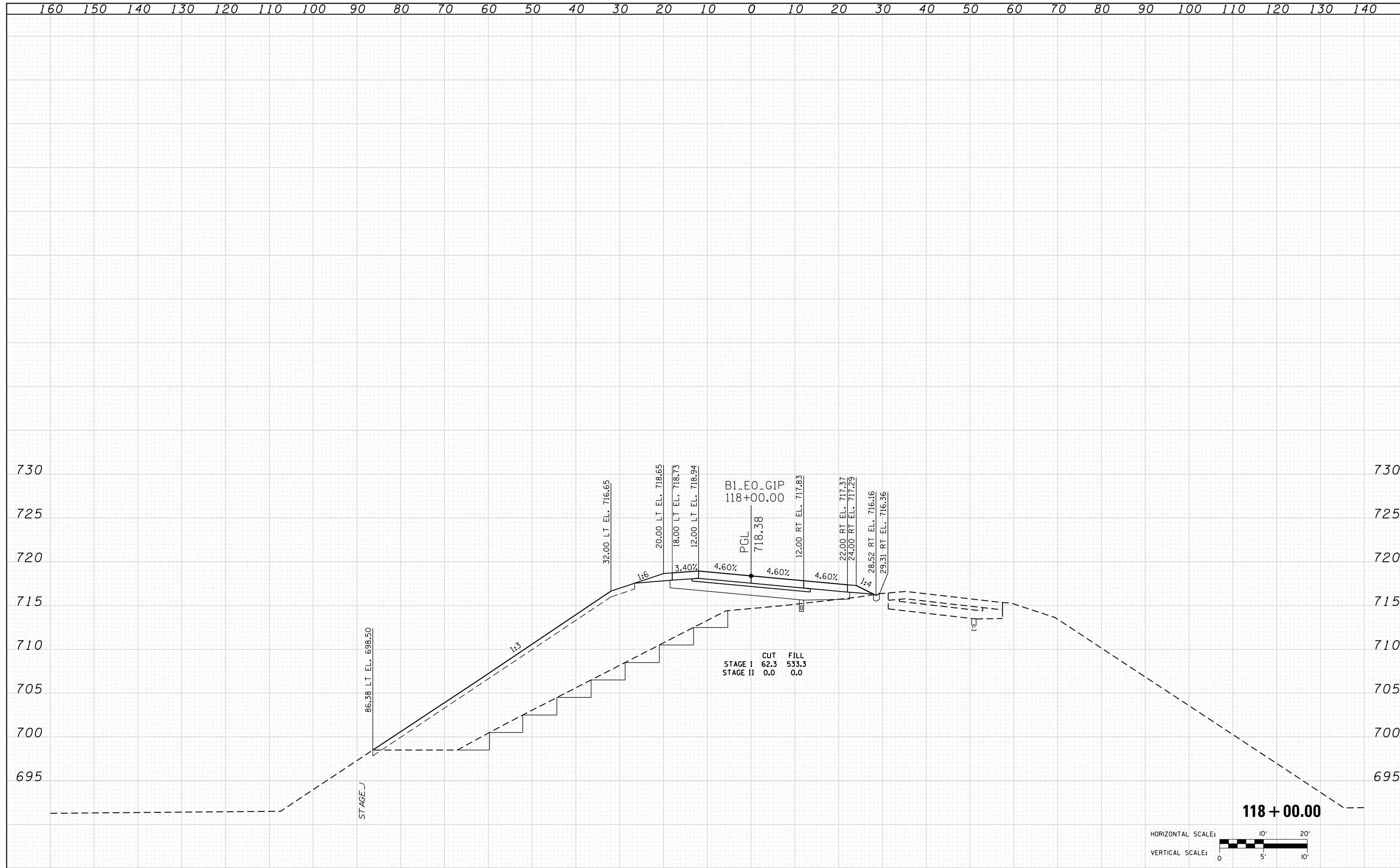
**PROPOSED CROSS SECTIONS
RAMP G1**

SCALE: SHEET NO. 1 OF 60 SHEETS STA. 117+53.24 TO STA. 117+53.24

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	659
DRAWING NO. XS-1			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

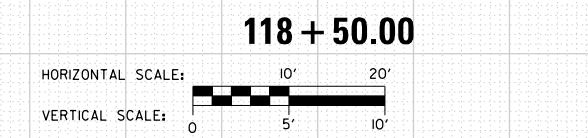
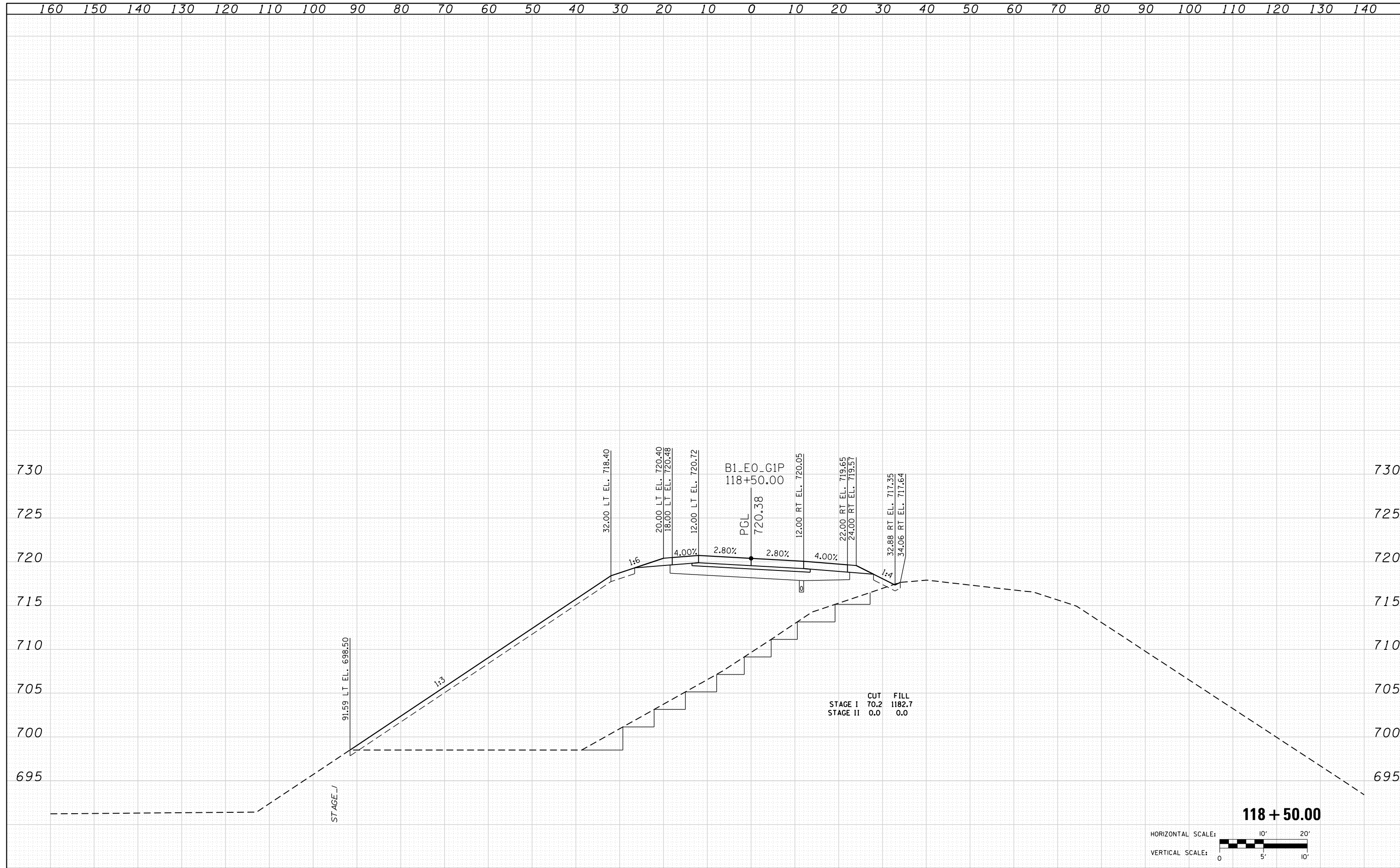
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME: D:\60\95-6a-sht-ssht-RampG1.dgn	USER NAME: asantiag	DESIGNED: MS	REVISIED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1			F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 660
CH2MHILL	PLOT SCALE: 20.0000' / in.	CHECKED: SML	REVISIED: -		SCALE:	SHEET NO. 2 OF 60 SHEETS	STA. 118+00.00 TO STA. 118+00.00	DRAWING NO. XS-2		CONTRACT NO. 60Y95		
	PLOT DATE: 10/28/2014	DATE: 07/07/2014	REVISIED: -		ILLINOIS FED. AID PROJECT							

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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NOTE BOOK	
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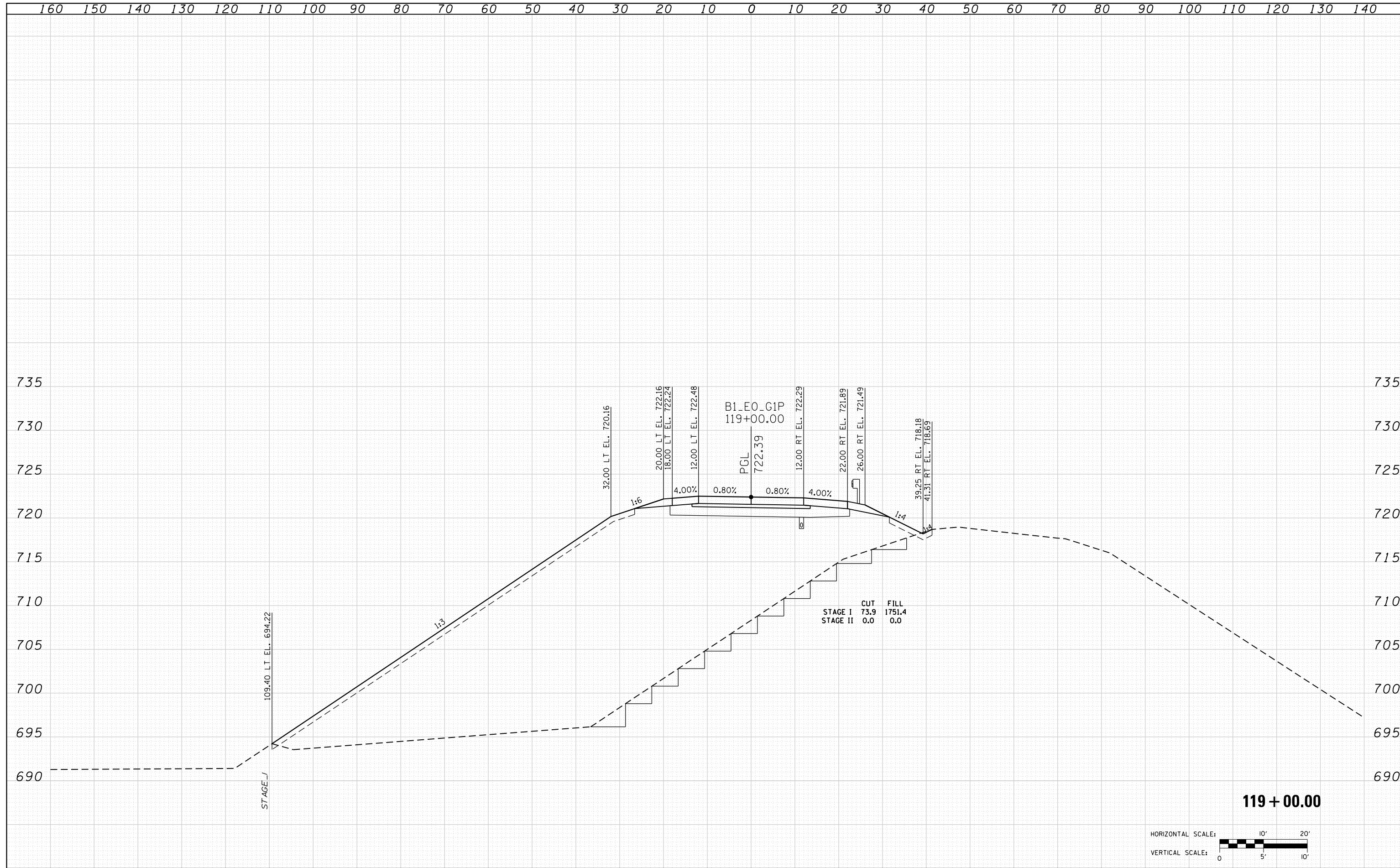
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NOTE BOOK	
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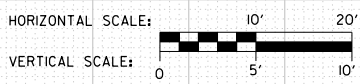
FILE NAME = D160795-6a-sht-xxsht-RampG1.dgn	USER NAME = asantiag	DESIGNED - MS	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1	SCALE:	SHEET NO. 3 OF 60 SHEETS	STA. 118+50.00 TO STA. 118+50.00	F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 661	
CH2MHILL	PLOT SCALE = 20.0000' / in.	CHECKED - SML	REVISIED -		DRAWING NO. XS-3	CONTRACT NO. 60Y95	ILLINOIS FED. AID PROJECT							
	PLOT DATE = 10/28/2014	DATE - 07/07/2014	REVISIED -											

DATE	
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FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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119 + 00.00



FILE NAME = D:\6095-6a-sht-ssht-RampG1.dgn
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PLOT SCALE = 20.0000' / in.	DRAWN - AS	REVISIED -
PLOT DATE = 10/28/2014	CHECKED - SML	REVISIED -
	DATE - 07/07/2014	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

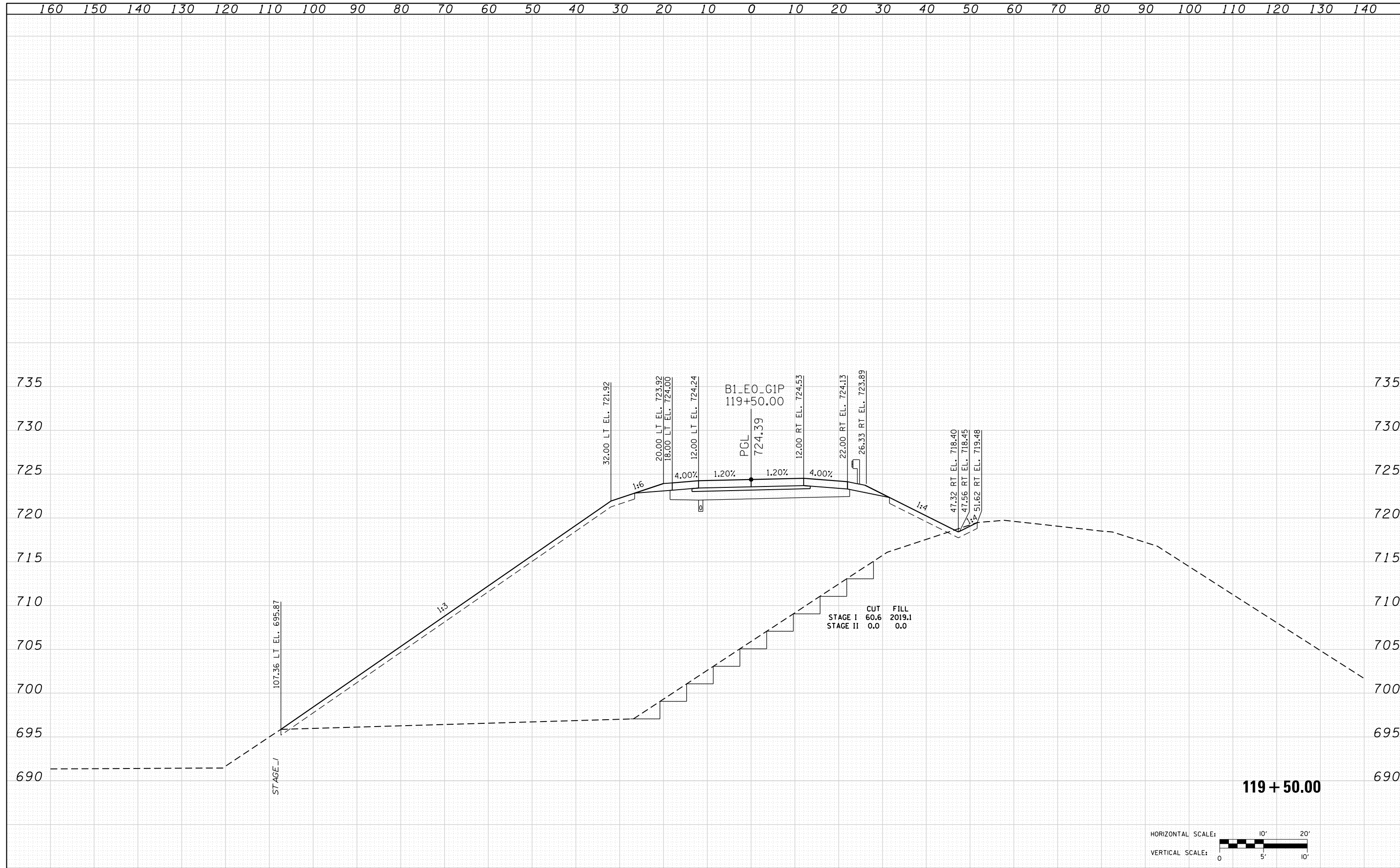
**PROPOSED CROSS SECTIONS
RAMP G1**

SCALE: SHEET NO. 4 OF 60 SHEETS STA. 119+00.00 TO STA. 119+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2013-083-R&B	DUPAGE	759	662
DRAWING NO. XS-4			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				

DATE	
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TEMPLATE	
AREAS	
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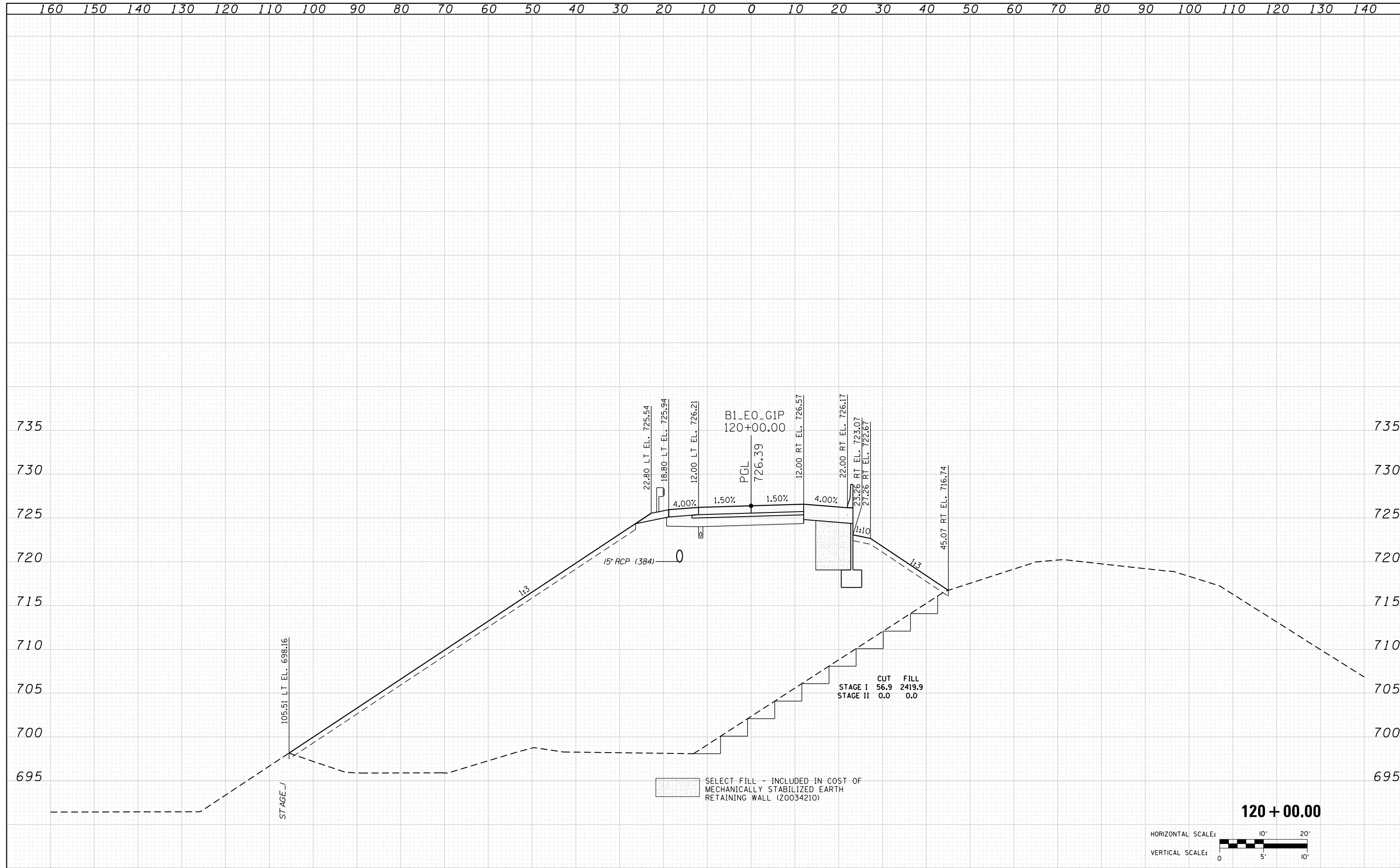
DATE	
BY	
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AREAS	
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CH2MHILL	PLOT SCALE : 20.0000' / in.	DRAWN : AS	REVISIED : -		345	2013-083-R&B	DUPAGE	759	663			
PLOT DATE : 10/28/2014	CHECKED : SML	REVISIED : -	SCALE:		SHEET NO. 5	OF 60 SHEETS	STA. 119+50.00	TO STA. 119+50.00	DRAWING NO. XS-5 CONTRACT NO. 60Y95			
DATE : 07/07/2014	REVISIED : -	ILLINOIS FED. AID PROJECT										

DATE	
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TEMPLATE	
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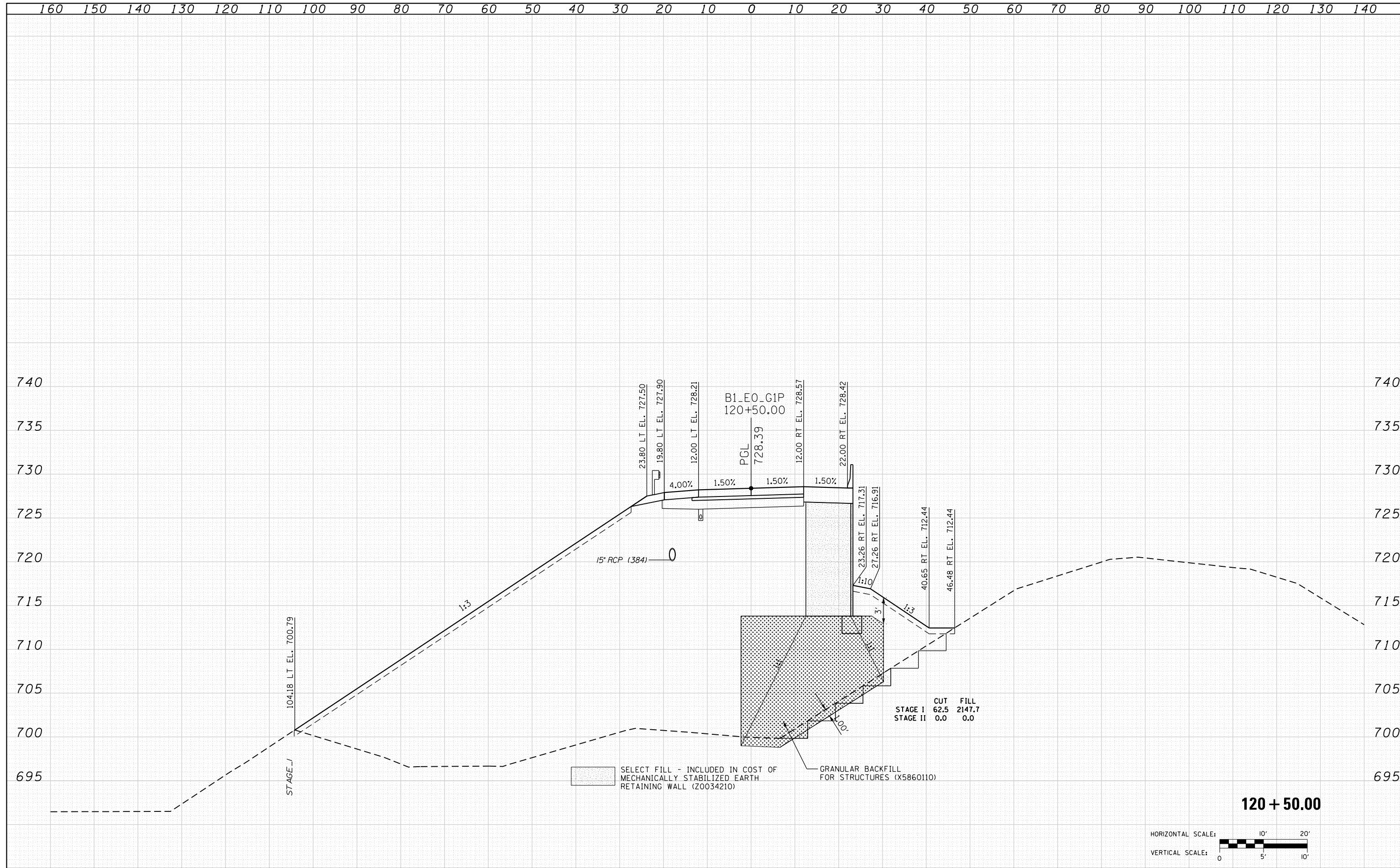
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS	
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FILE NAME =	USER NAME = asantiag	DESIGNED - MS	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D160195-6a-sht-xxsht-RampG1.dgn		DRAWN - AS	REVISIED -					345	2013-083-R&B	DUPAGE	759	664
CH2MHILL	PLOT SCALE = 20.0000' / in.	CHECKED - SML	REVISIED -		DRAWING NO. XS-6			CONTRACT NO. 60Y95				
	PLOT DATE = 10/28/2014	DATE - 07/07/2014	REVISIED -		SCALE: SHEET NO. 6 OF 60 SHEETS STA. 120+00.00 TO STA. 120+00.00			ILLINOIS FED. AID PROJECT				

DATE	
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TEMPLATE	
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CHECKED	
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DATE	
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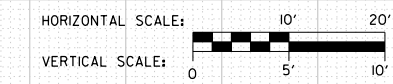


SELECT FILL - INCLUDED IN COST OF MECHANICALLY STABILIZED EARTH RETAINING WALL (Z0034210)

GRANULAR BACKFILL FOR STRUCTURES (X5860110)

CUT	62.5	FILL	2147.7
STAGE II	0.0	FILL	0.0

120 + 50.00



FILE NAME = D:\16095-6a-sht-ssht-RampG1.dgn

CH2MHILL

USER NAME = asantiag	DESIGNED - MS	REVISD -
	DRAWN - AS	REVISD -
PLOT SCALE = 20.0000' / in.	CHECKED - SML	REVISD -
PLOT DATE = 10/28/2014	DATE - 07/07/2014	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

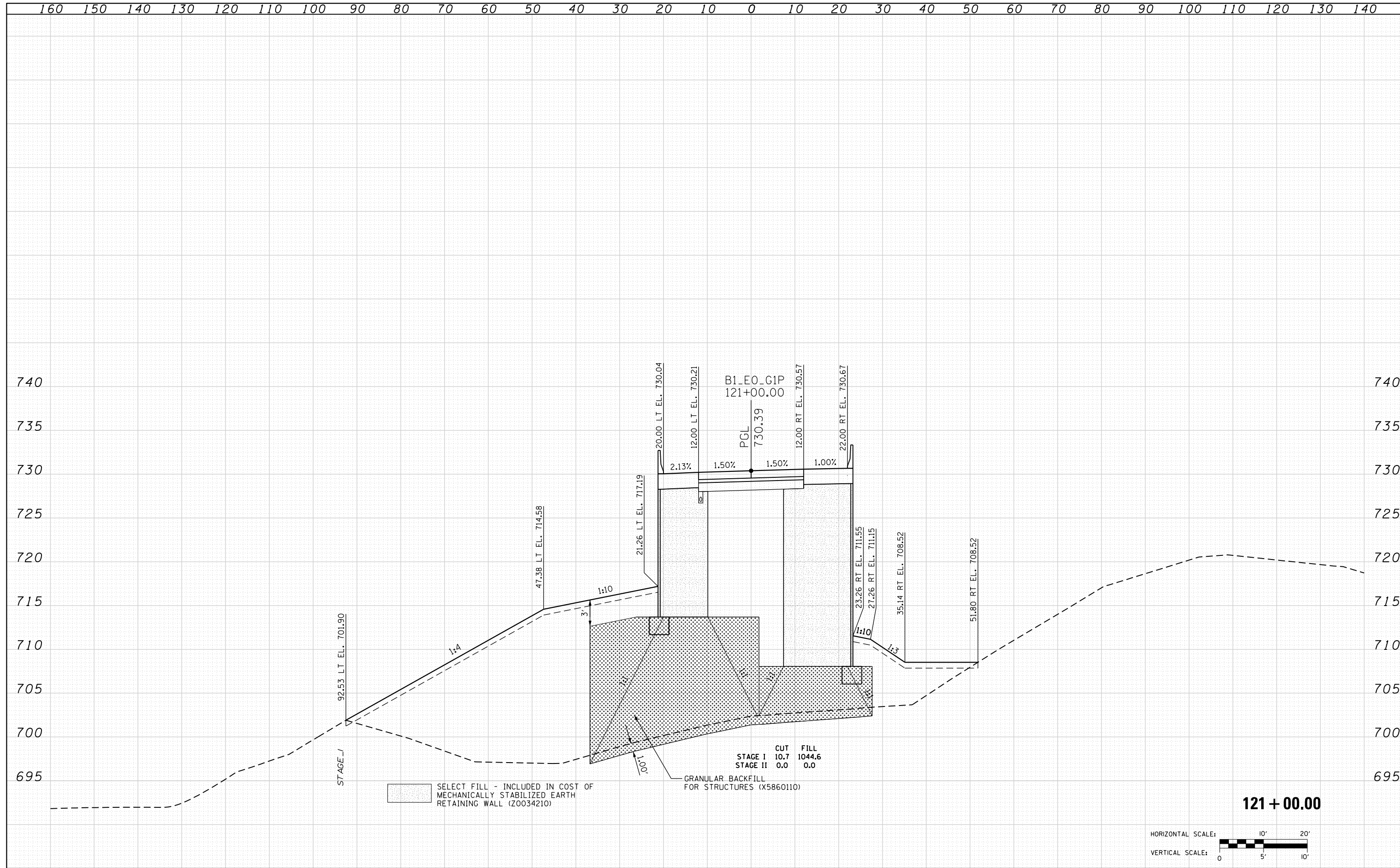
PROPOSED CROSS SECTIONS
RAMP G1

SCALE: SHEET NO. 7 OF 60 SHEETS STA. 120+50.00 TO STA. 120+50.00

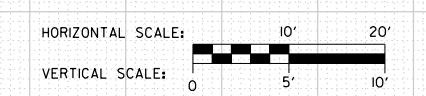
F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 665
DRAWING NO. XS-7			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	
NOTE BOOK	
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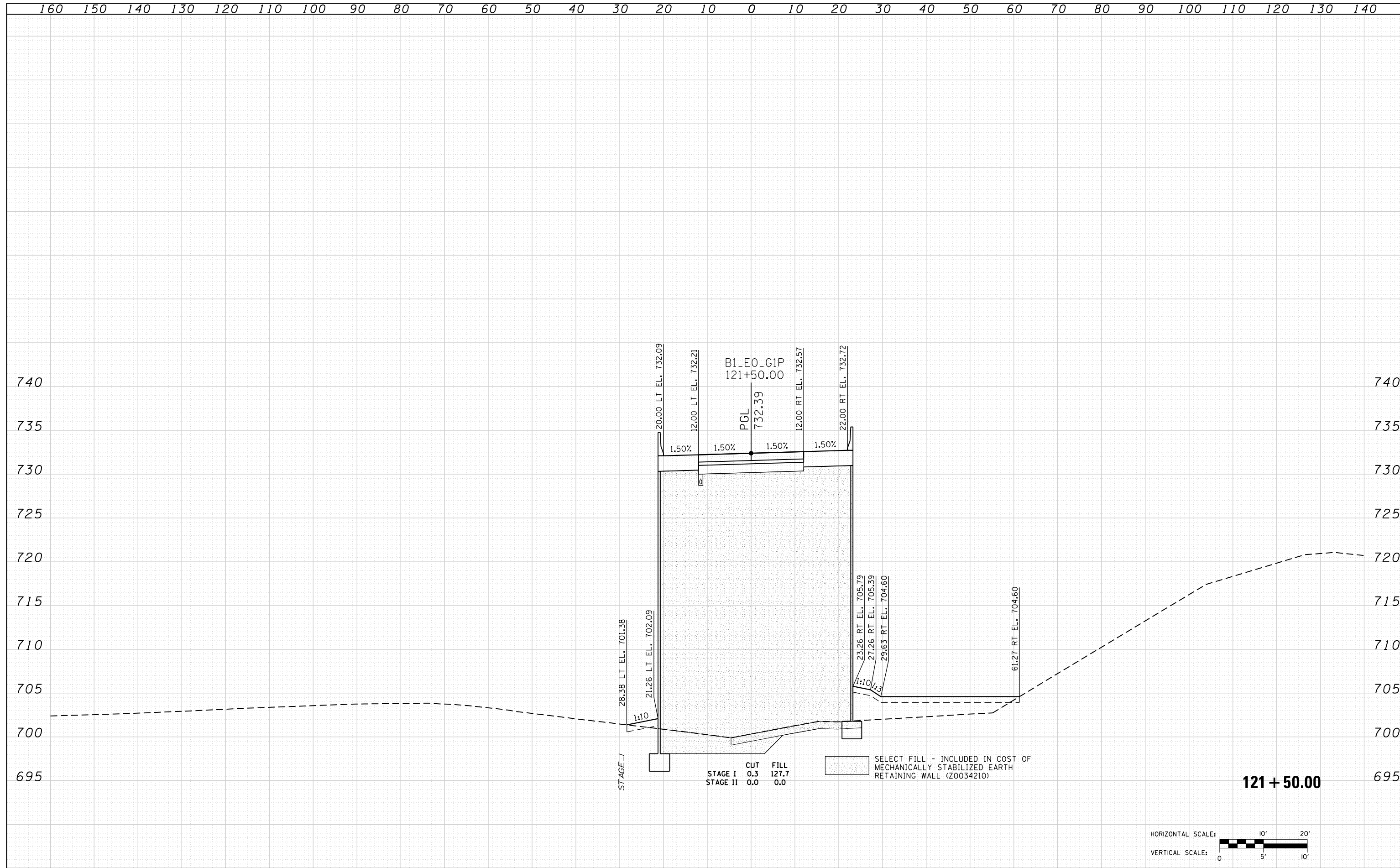
121 + 00.00



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	PLOT DATE = 10/28/2014	CHECKED - SML	REVISIED -		SCALE: SHEET NO. 8 OF 60 SHEETS			STA. 121+00.00 TO STA. 121+00.00		ILLINOIS FED. AID PROJECT		
		DATE - 07/07/2014	REVISIED -									

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



B1_EO_G1P
121+50.00

PGL
732.39

1.50% 1.50% 1.50% 1.50%

20.00 LT EL. 732.09
12.00 LT EL. 732.21
12.00 RT EL. 732.57
22.00 RT EL. 732.72

28.38 LT EL. 701.38
21.26 LT EL. 702.09

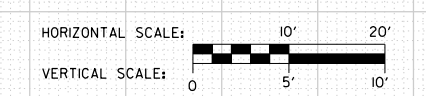
23.26 RT EL. 705.79
27.26 RT EL. 705.39
29.63 RT EL. 704.60

61.27 RT EL. 704.60

1:10 1:10.3

STAGE I CUT 0.3 FILL 127.7
STAGE II 0.0 0.0

SELECT FILL - INCLUDED IN COST OF MECHANICALLY STABILIZED EARTH RETAINING WALL (Z0034210)

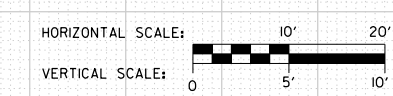
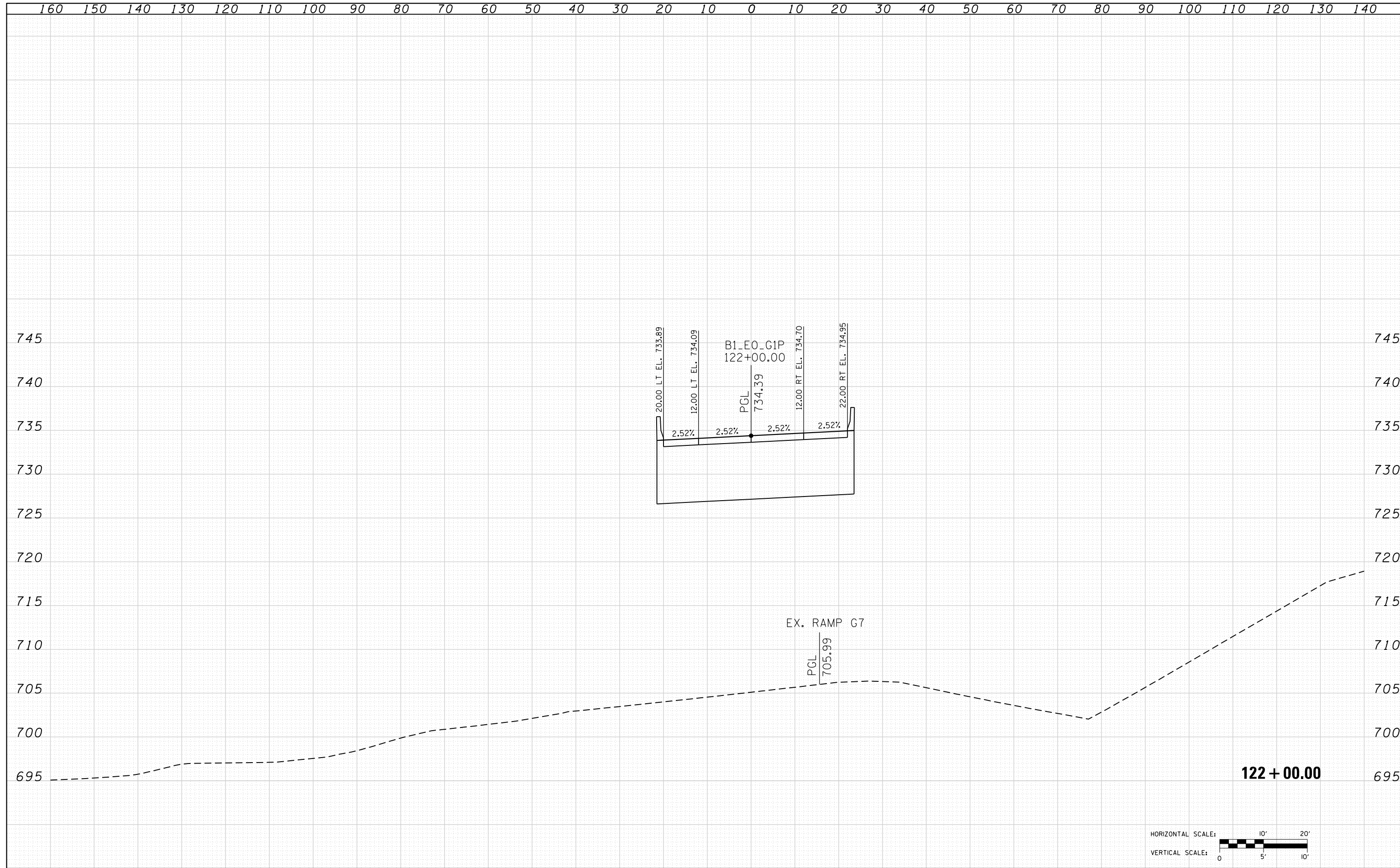


121 + 50.00

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CH2MHILL	PLOT SCALE = 20.0000' / in.	CHECKED - SML	REVISIED -		SCALE:	SHEET NO. 9 OF 60 SHEETS	STA. 121+50.00 TO STA. 121+50.00	DRAWING NO. XS-9		CONTRACT NO. 60Y95		
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DATE	
BY	
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SURVEYED	
PLOTTED	
TEMPLATE	
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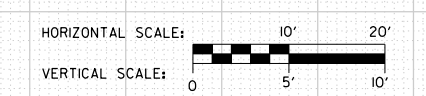
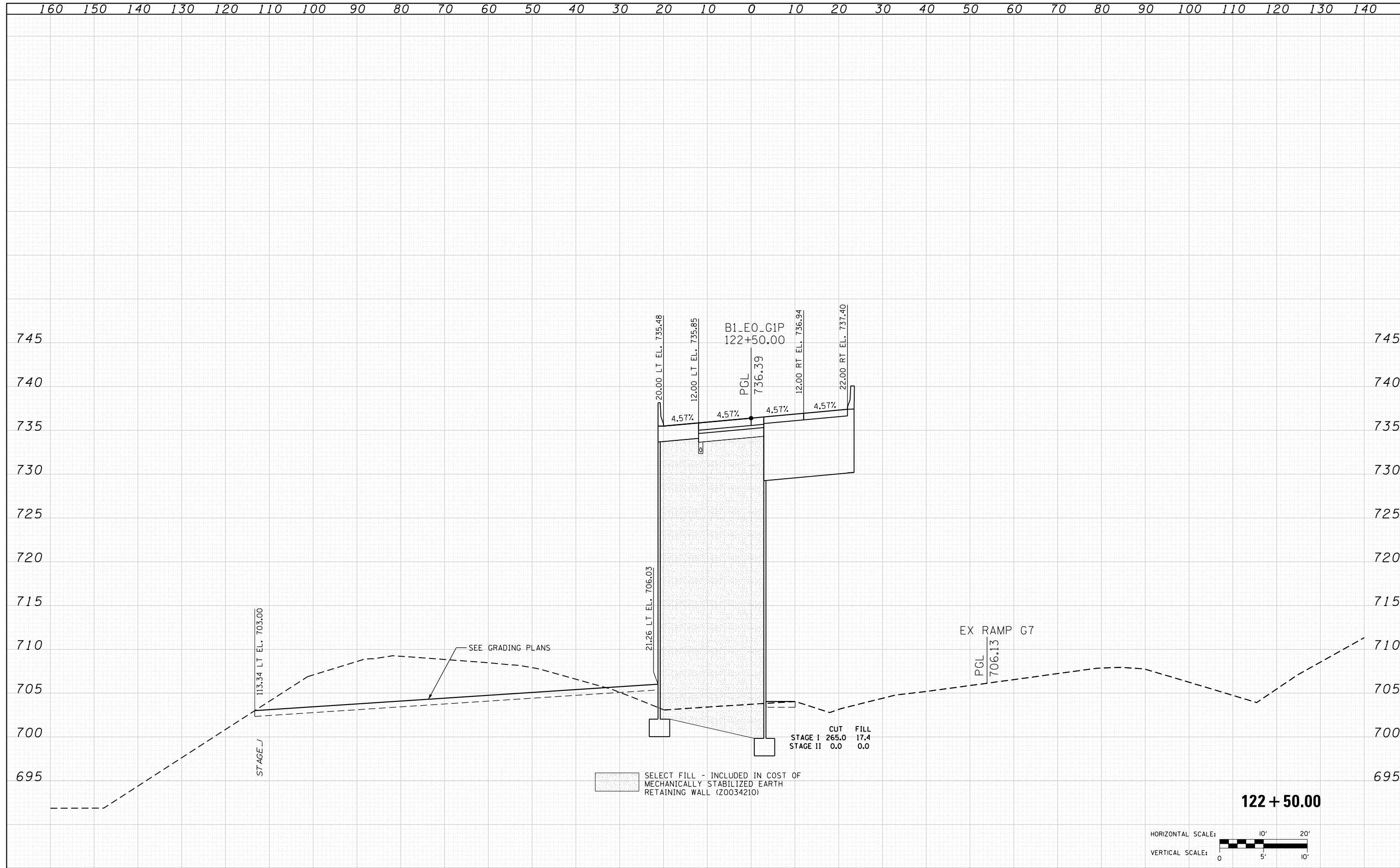
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CH2MHILL	PLOT SCALE : 20.0000' / in.	DRAWN - AS	REVISIED -		345	2013-083-R&B	DUPAGE	759	668			
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		DATE - 07/07/2014	REVISIED -		SCALE: SHEET NO. 10 OF 60 SHEETS			STA. 122+00.00 TO STA. 122+00.00		ILLINOIS FED. AID PROJECT		

DATE	
BY	
SURVEYED	
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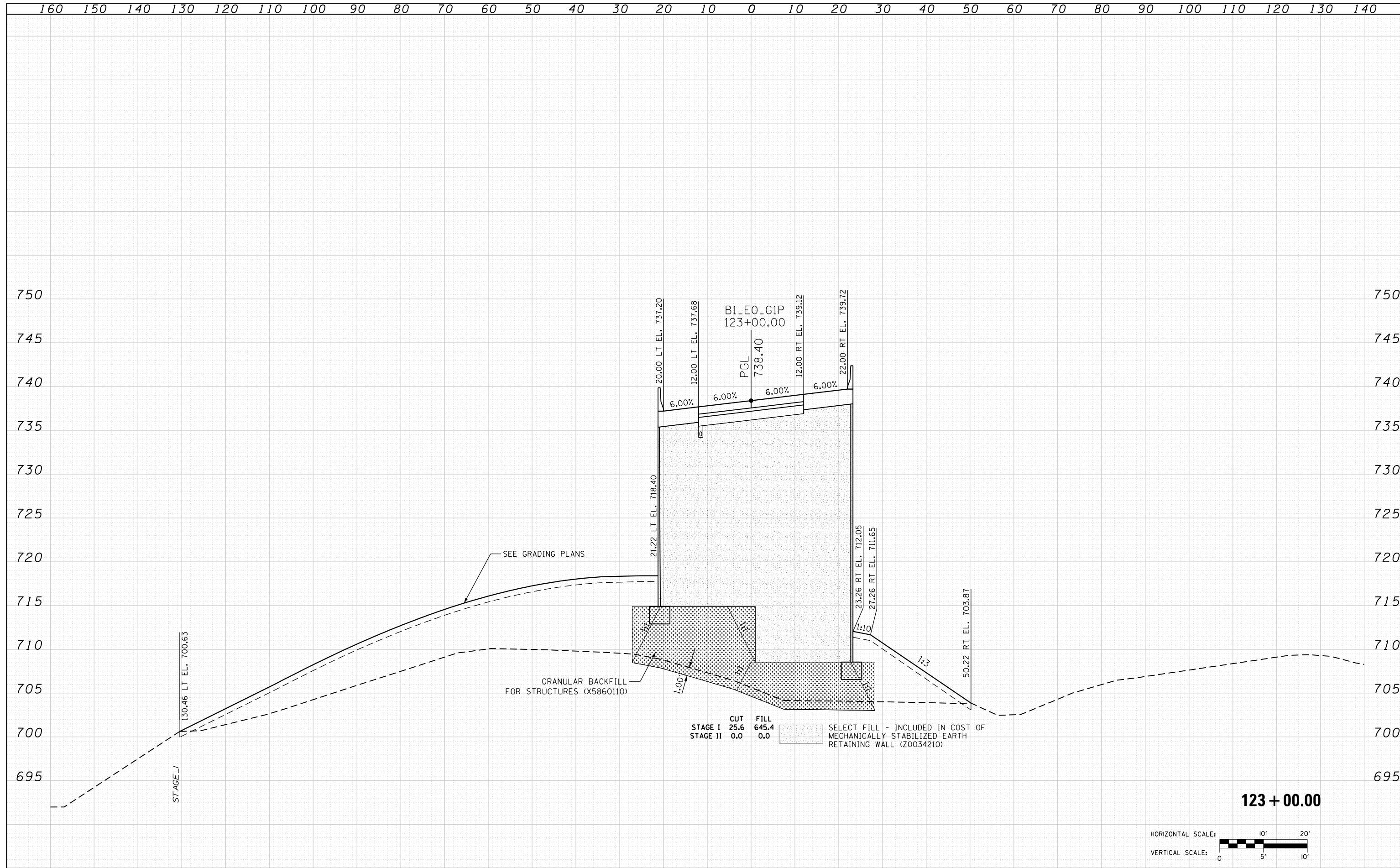
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CH2MHILL	PLOT SCALE: 20.0000' / in.	CHECKED: SML	REVISOR:		SCALE:	SHEET NO. 11 OF 60 SHEETS	STA. 122+50.00 TO STA. 122+50.00	DRAWING NO. XS-11		CONTRACT NO. 60Y95		
	PLOT DATE: 10/28/2014	DATE: 07/07/2014	REVISOR:		ILLINOIS FED. AID PROJECT							

DATE	
BY	
SURVEYED	
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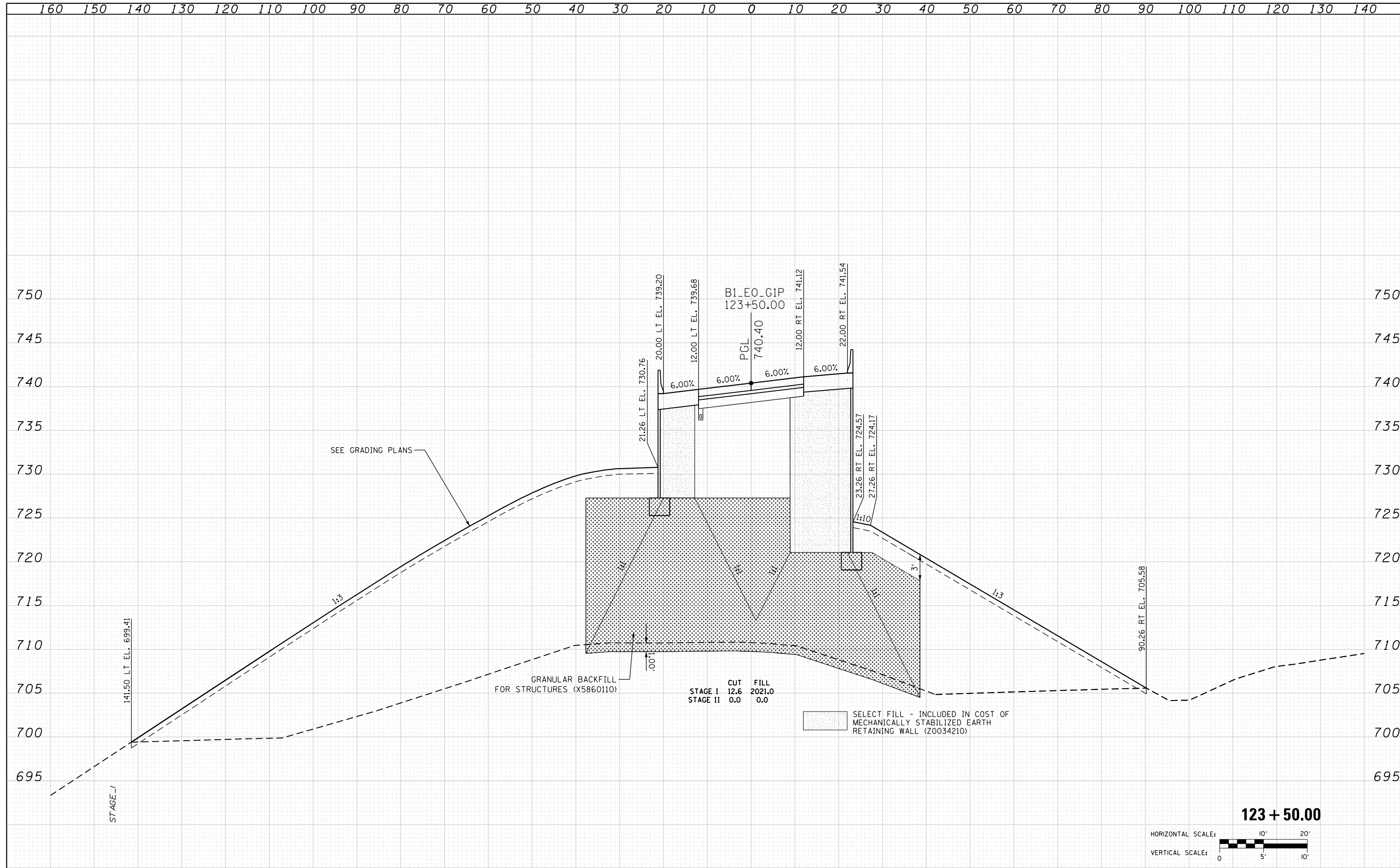
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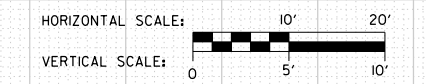
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CH2MHILL	PLOT SCALE = 20.0000' / in.	CHECKED - SML	REVISIED -		SCALE:	SHEET NO. 12 OF 60 SHEETS	STA. 123+00.00 TO STA. 123+00.00	DRAWING NO. XS-12		CONTRACT NO. 60Y95		
	PLOT DATE = 10/28/2014	DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT							

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TEMPLATE	
NOTE BOOK	
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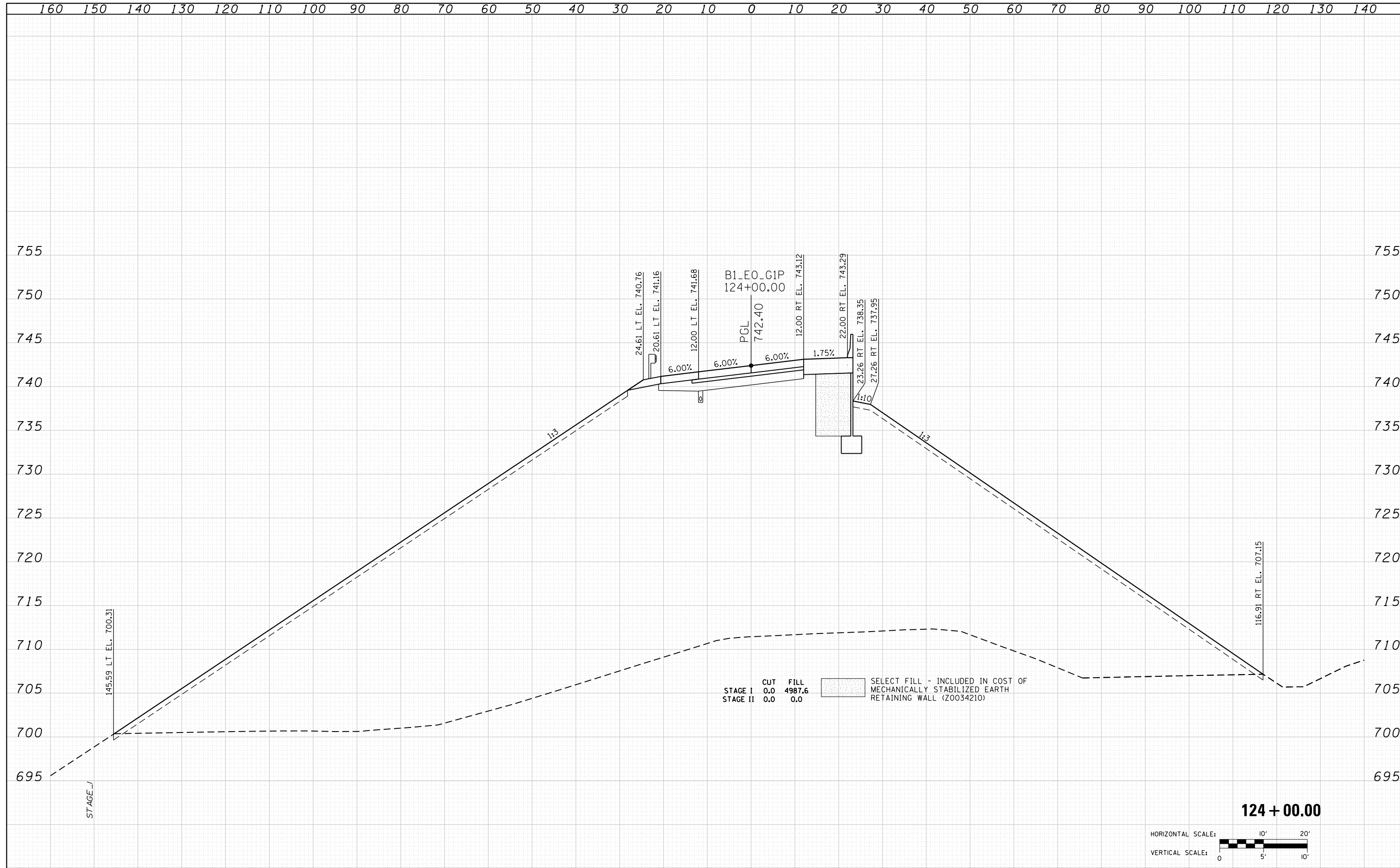
123 + 50.00



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CH2MHILL	PLOT SCALE = 20.0000' / in.	CHECKED - SML	REVISIED -					SCALE:	SHEET NO. 13 OF 60 SHEETS	STA. 123+50.00 TO STA. 123+50.00	DRAWING NO. XS-13	
	PLOT DATE = 10/28/2014	DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT							

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BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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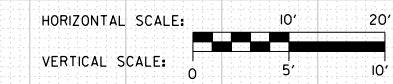
DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



	CUT	FILL	
STAGE I	0.0	4987.6	
STAGE II	0.0	0.0	

SELECT FILL - INCLUDED IN COST OF MECHANICALLY STABILIZED EARTH RETAINING WALL (20034210)

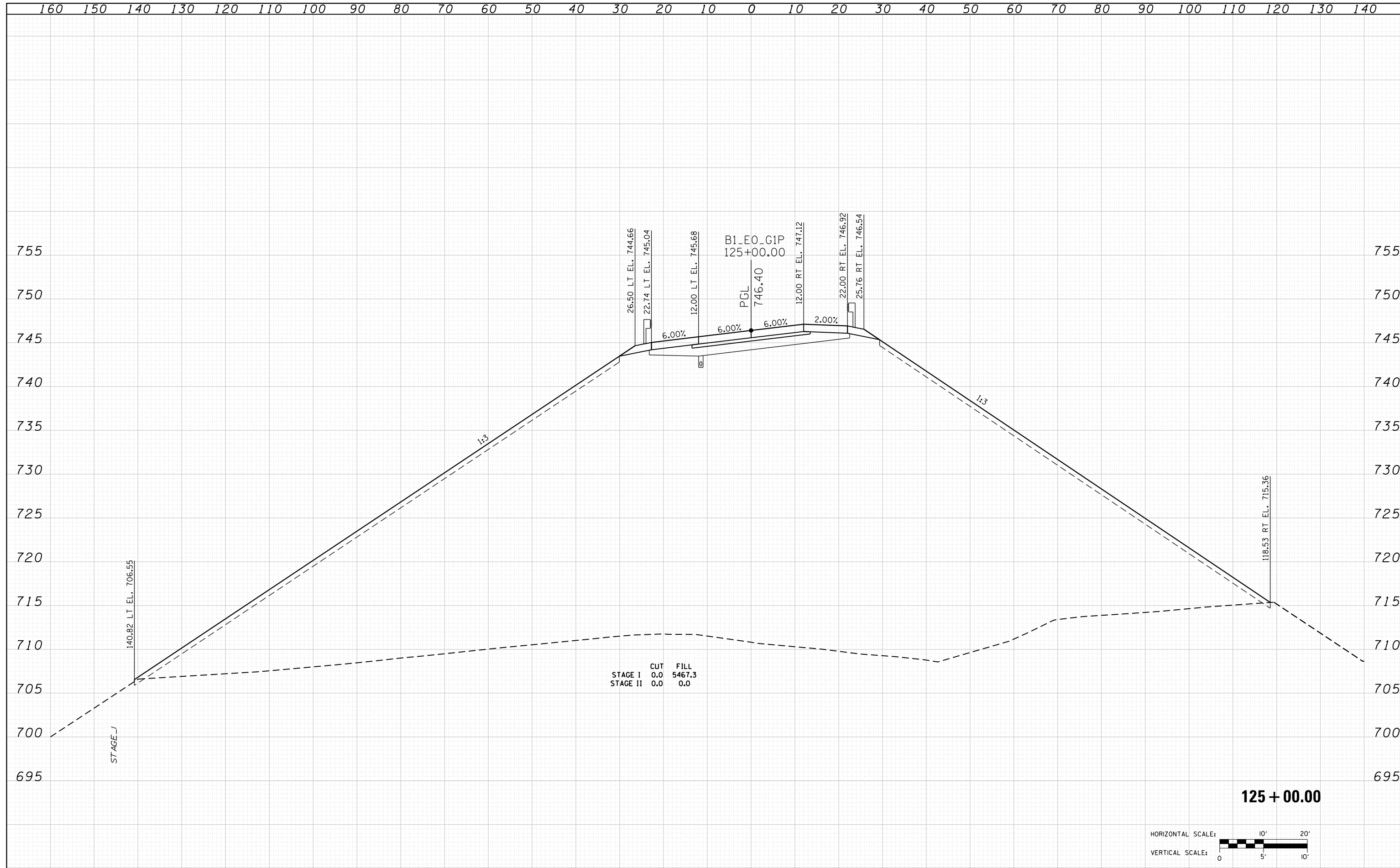
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CH2MHILL	PLOT SCALE : 20.0000' / in.	CHECKED - SML	REVISD -		SCALE:	SHEET NO. 14 OF 60 SHEETS	STA. 124+00.00	TO STA. 124+00.00	DRAWING NO. XS-14		CONTRACT NO. 60Y95	
	PLOT DATE : 10/28/2014	DATE - 07/07/2014	REVISD -		ILLINOIS FED. AID PROJECT							

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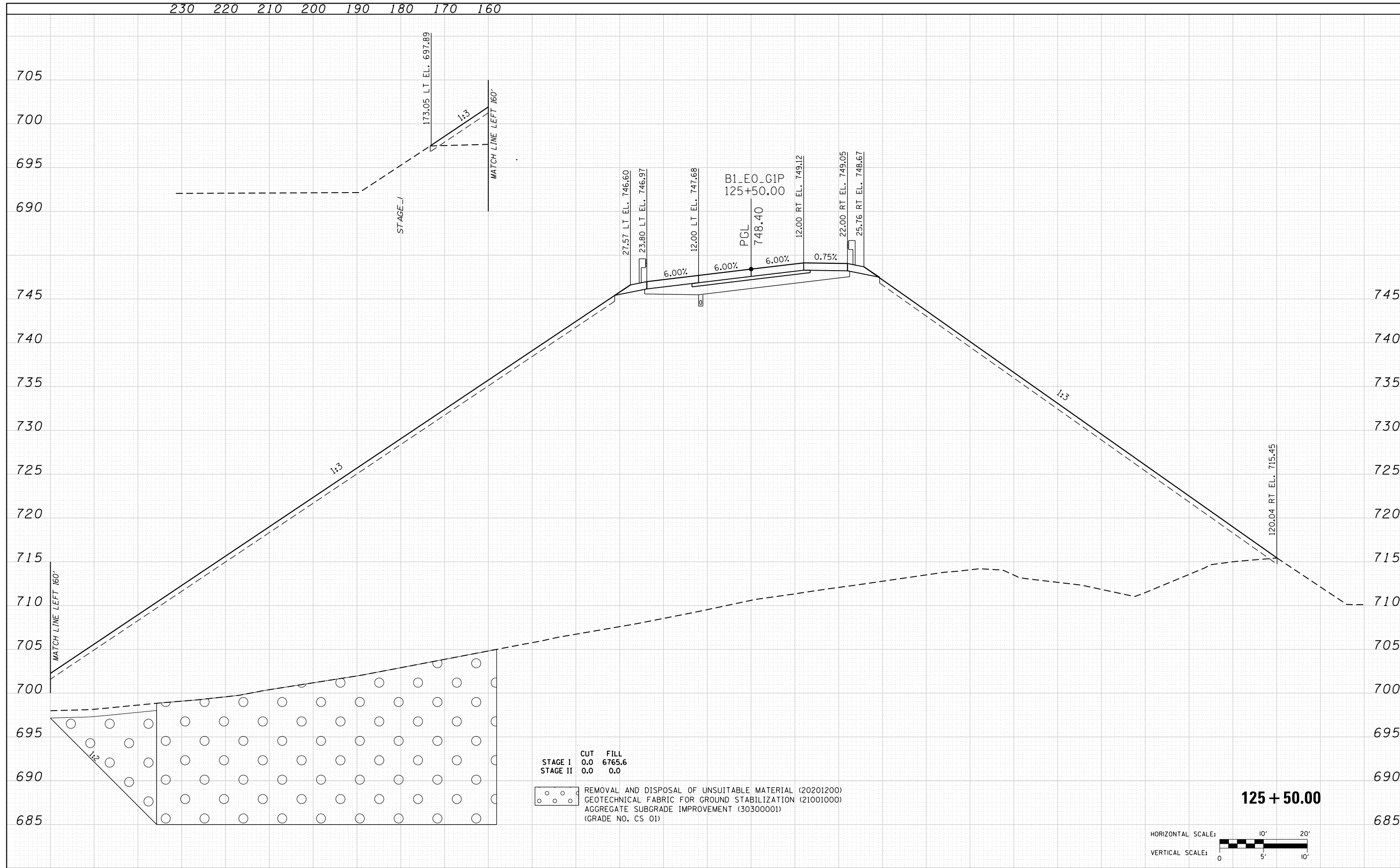
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FILE NAME : D16095-6a-sht-ssht-RampG1.dgn	USER NAME : asantiag	DESIGNED - MS	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH2MHILL	PLOT SCALE : 20.0000' / in.	DRAWN - AS	REVISIED -		345	2013-083-R&B	DUPAGE	759	674			
PLOT DATE : 10/28/2014	DATE - 07/07/2014	CHECKED - SML	REVISIED -		DRAWING NO. XS-16			CONTRACT NO. 60Y95				
		DATE - 07/07/2014	REVISIED -		SCALE:	SHEET NO. 16 OF 60 SHEETS	STA. 125+00.00 TO STA. 125+00.00	ILLINOIS FED. AID PROJECT				

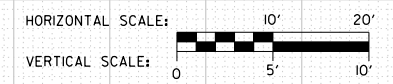
DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	AREAS CHECKED
NO.	



CUT	FILL
STAGE I 0.0	6765.6
STAGE II 0.0	0.0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
 AGGREGATE SUBGRADE IMPROVEMENT (30300001)
 (GRADE NO. CS 01)



125 + 50.00

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CH2MHILL

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PLLOT DATE = 10/28/2014	CHECKED - SML	REVISOR -
	DATE - 07/07/2014	REVISOR -

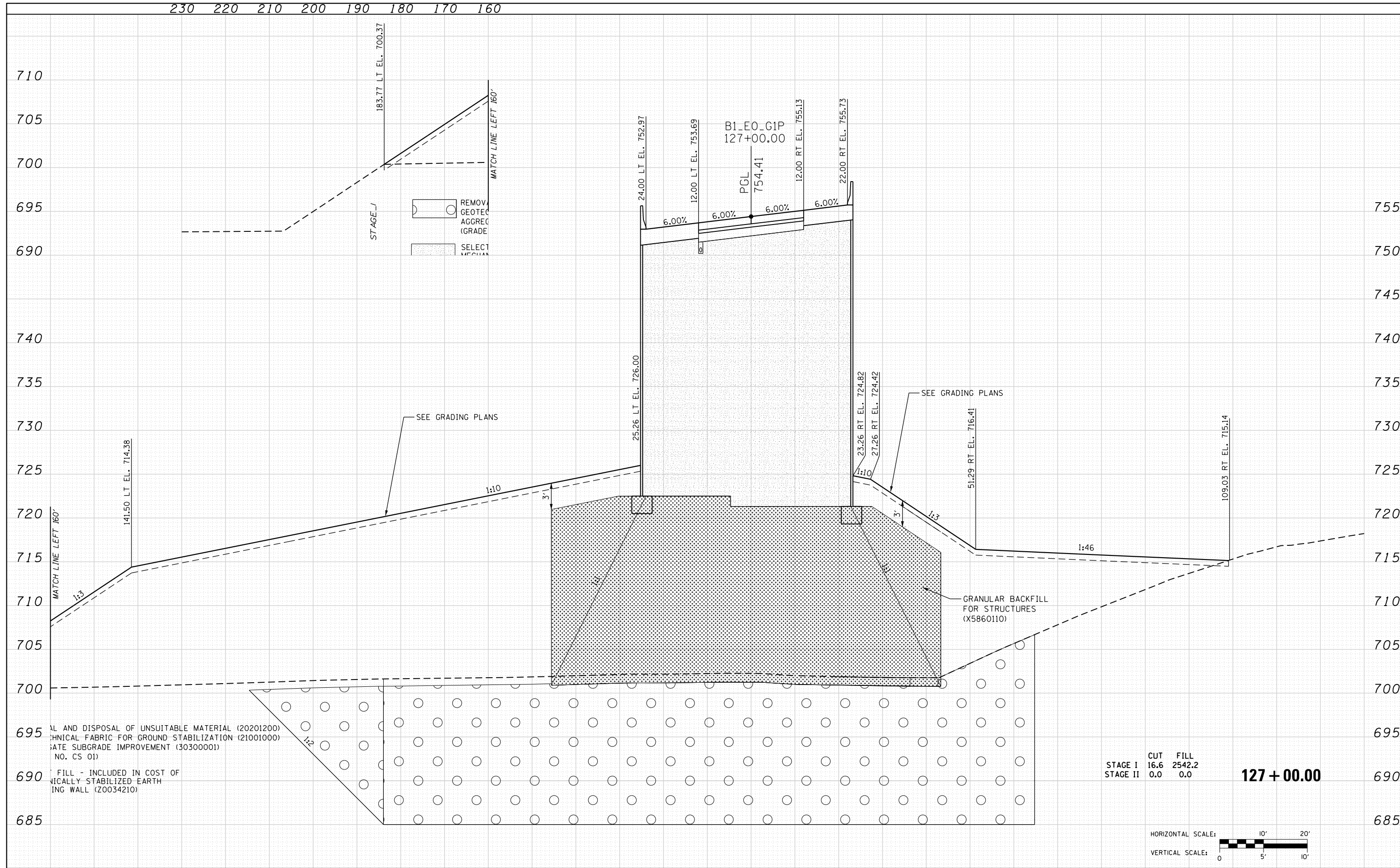
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS	
RAMP G1	
SCALE:	SHEET NO. 17 OF 60 SHEETS STA. 125+50.00 TO STA. 125+50.00

F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 675
DRAWING NO. XS-17			CONTRACT NO. 60Y95	
ILLINOIS FED. AID PROJECT				

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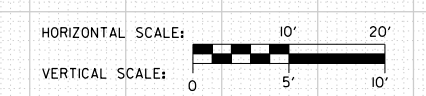


REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
 GEOTEXTILE MECHANICAL FABRIC FOR GROUND STABILIZATION (21001000)
 STATE SUBGRADE IMPROVEMENT (30300001)
 NO. CS 01)

FILL - INCLUDED IN COST OF
 MECHANICALLY STABILIZED EARTH
 RETAINING WALL (Z0034210)

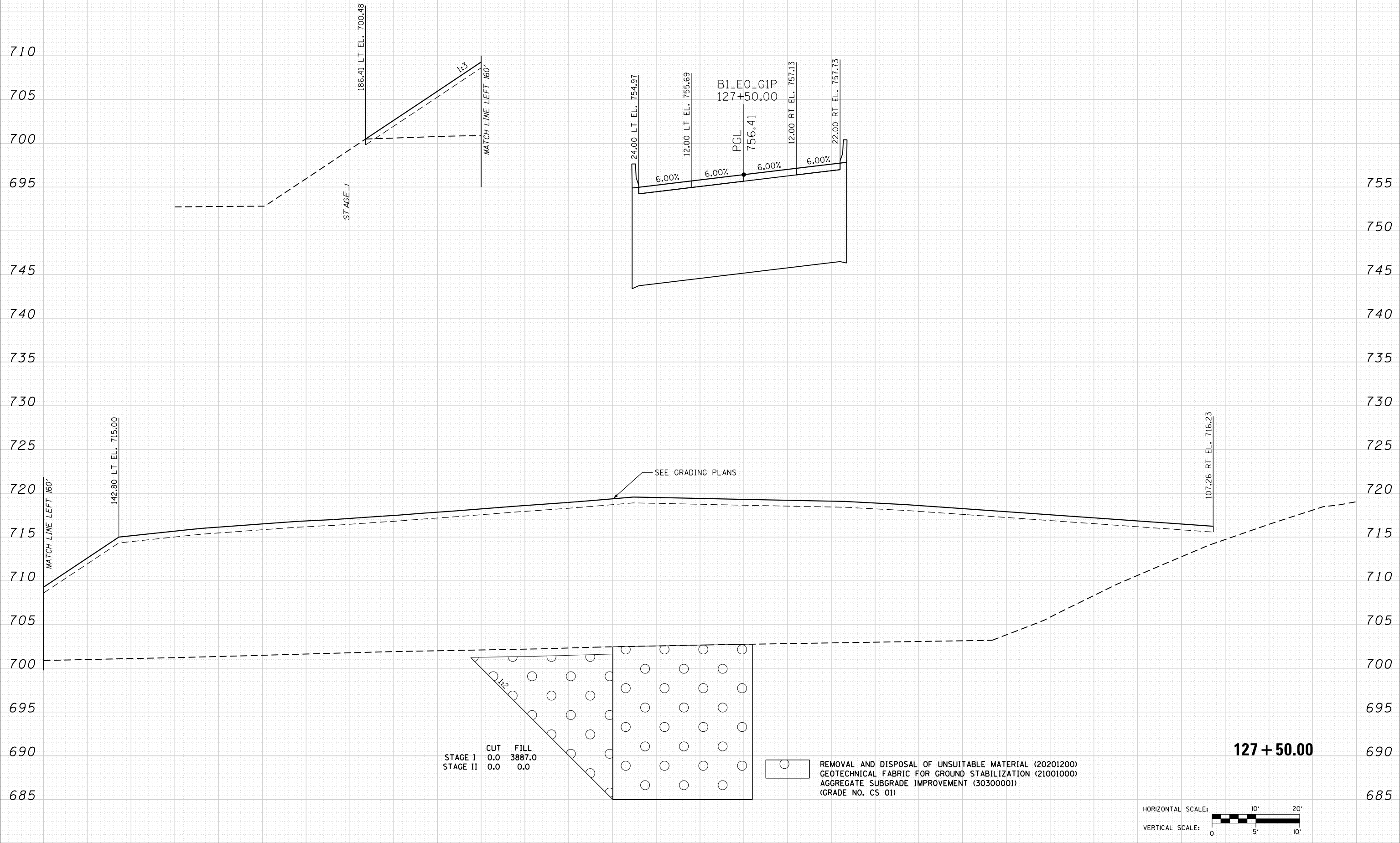
	CUT	FILL
STAGE I	16.6	2542.2
STAGE II	0.0	0.0

127 + 00.00



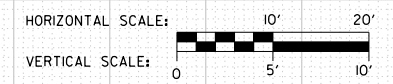
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	PLOT DATE: 10/28/2014	DATE: 07/07/2014	REVISOR:		ILLINOIS FED. AID PROJECT								

230 220 210 200 190 180 170 160



	CUT	FILL
STAGE I	0.0	3887.0
STAGE II	0.0	0.0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
 AGGREGATE SUBGRADE IMPROVEMENT (30300001)
 (GRADE NO. CS 01)



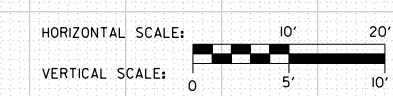
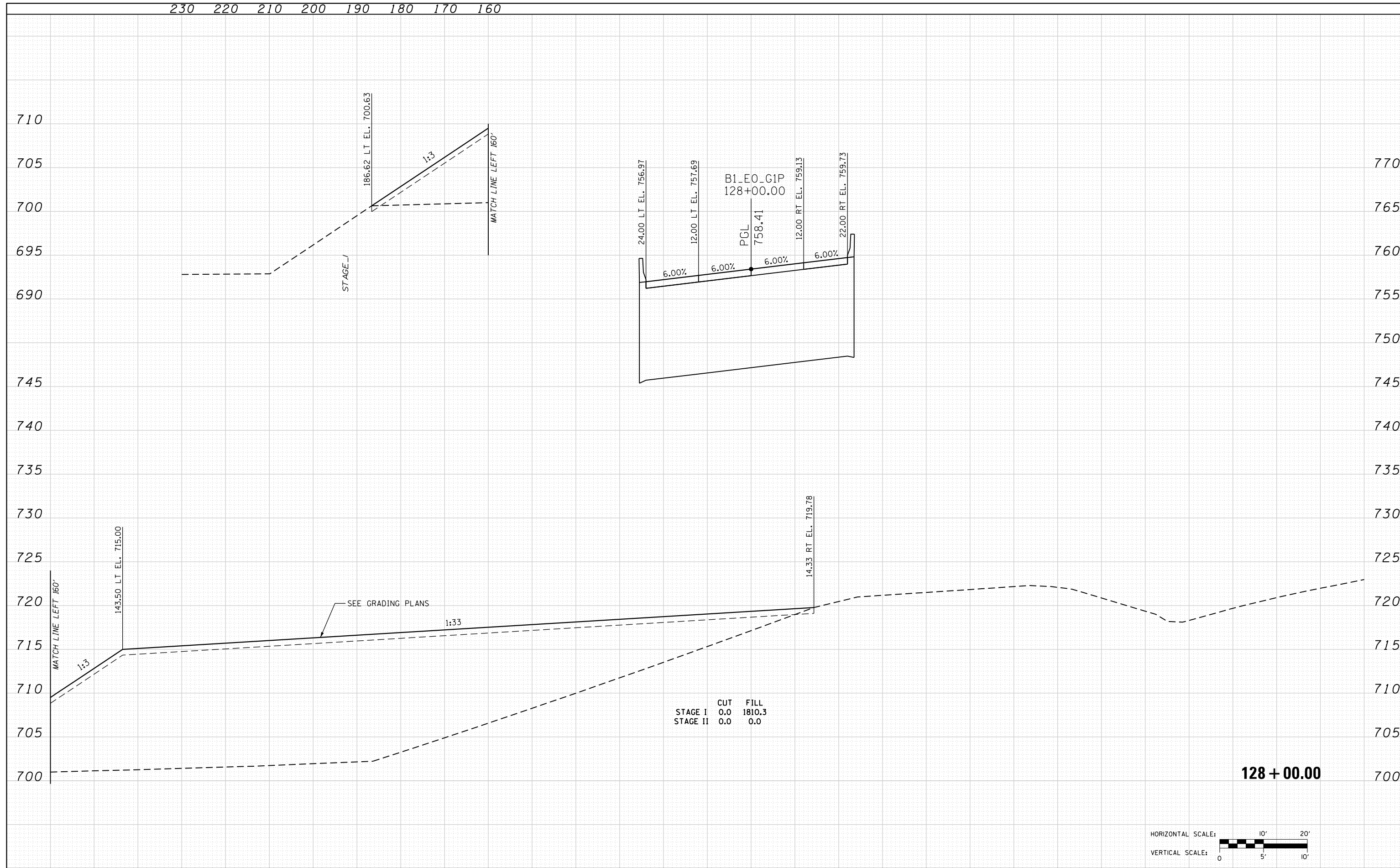
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CH2MHILL	PLOT SCALE : 20.0000 ' / in.	DRAWN - AS	REVISIONS	SCALE:	SHEET NO. 21 OF 60 SHEETS	STA. 127+50.00 TO STA. 127+50.00	F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 679
	PLOT DATE : 10/28/2014	CHECKED - SML	REVISIONS					DRAWING NO. XS-21		CONTRACT NO. 60Y95	
		DATE - 07/07/2014	REVISIONS					ILLINOIS FED. AID PROJECT			

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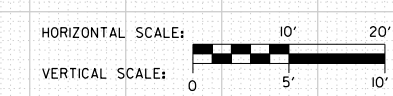
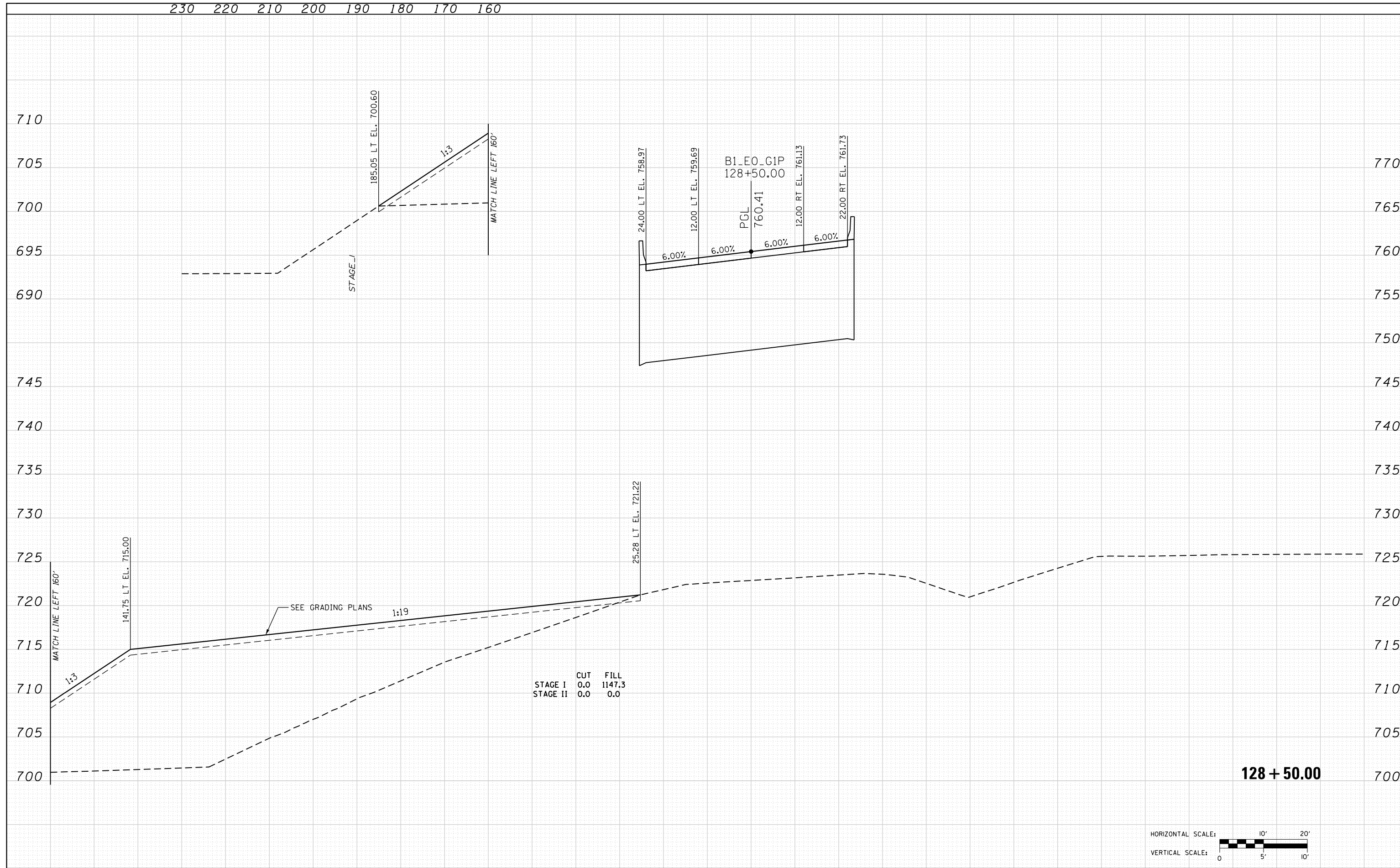
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	PLOT DATE: 10/28/2014	DATE: 07/07/2014	REVISD: -		ILLINOIS FED. AID PROJECT							

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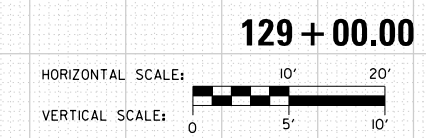
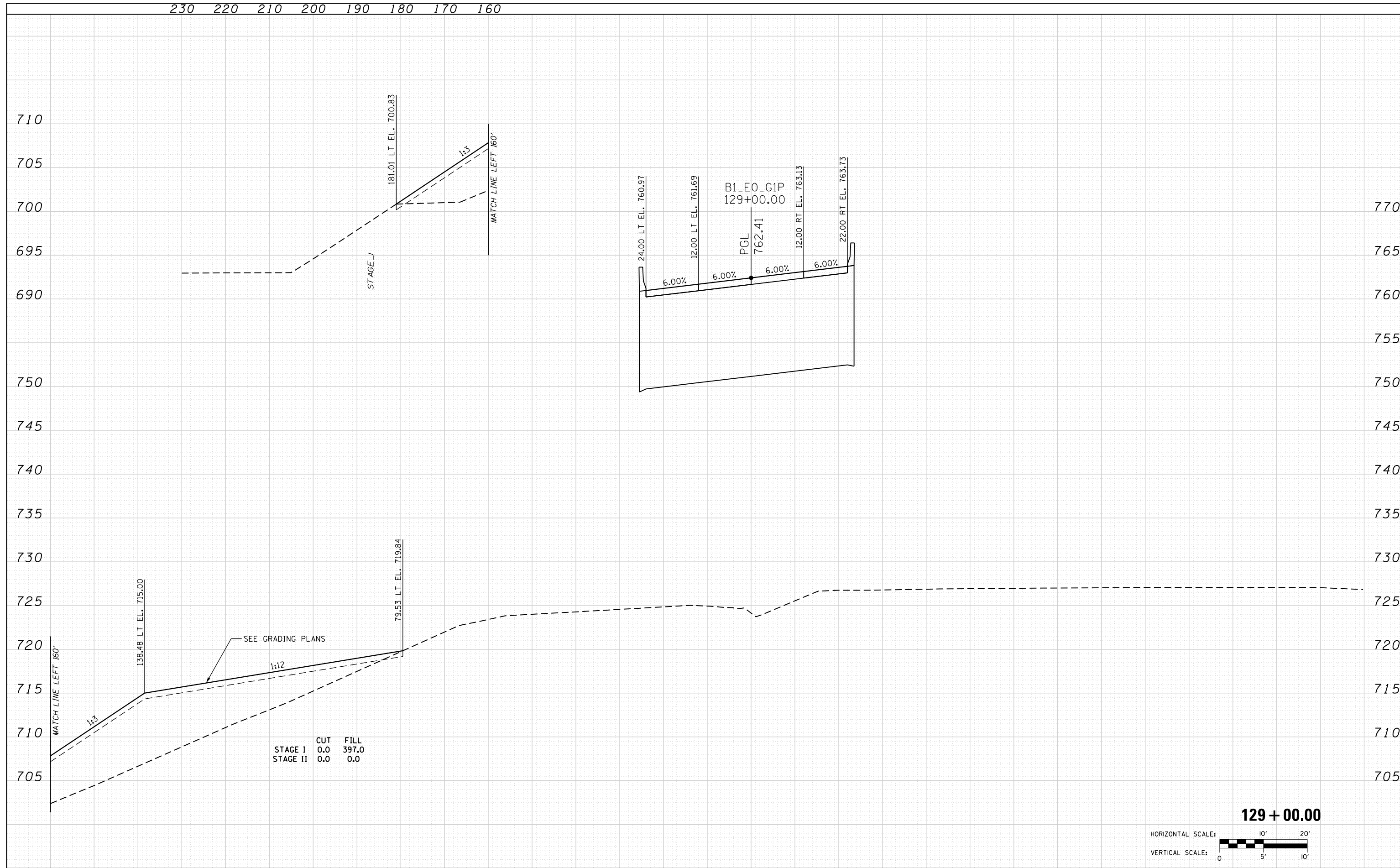
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PLOT DATE = 10/28/2014	DATE = 07/07/2014	REVISIED -	SCALE:				SHEET NO. 23 OF 60 SHEETS	STA. 128+50.00 TO STA. 128+50.00	ILLINOIS FED. AID PROJECT		

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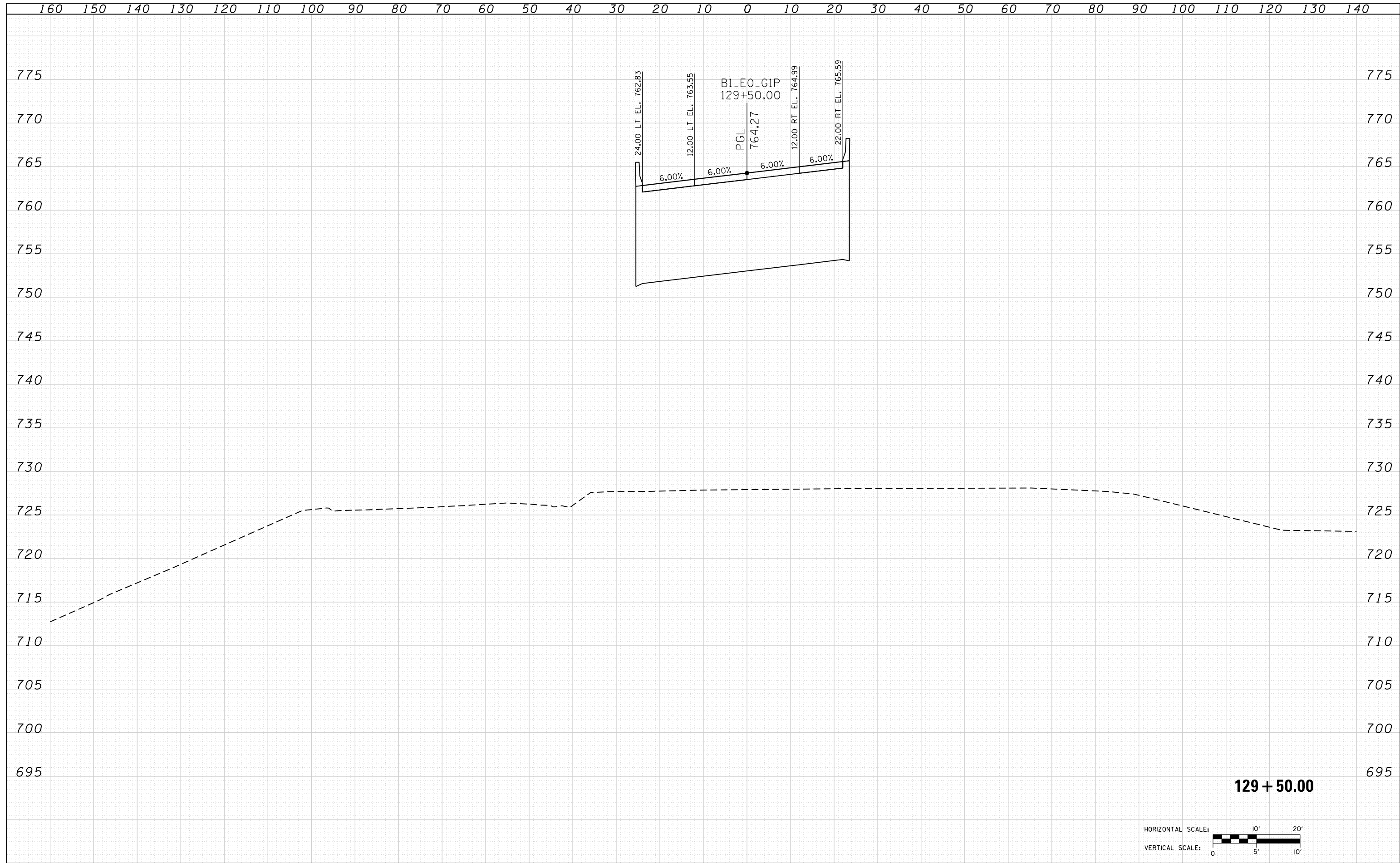
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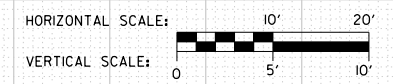
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	HORIZONTAL SCALE: 10' 20' VERTICAL SCALE: 0 5' 10'								

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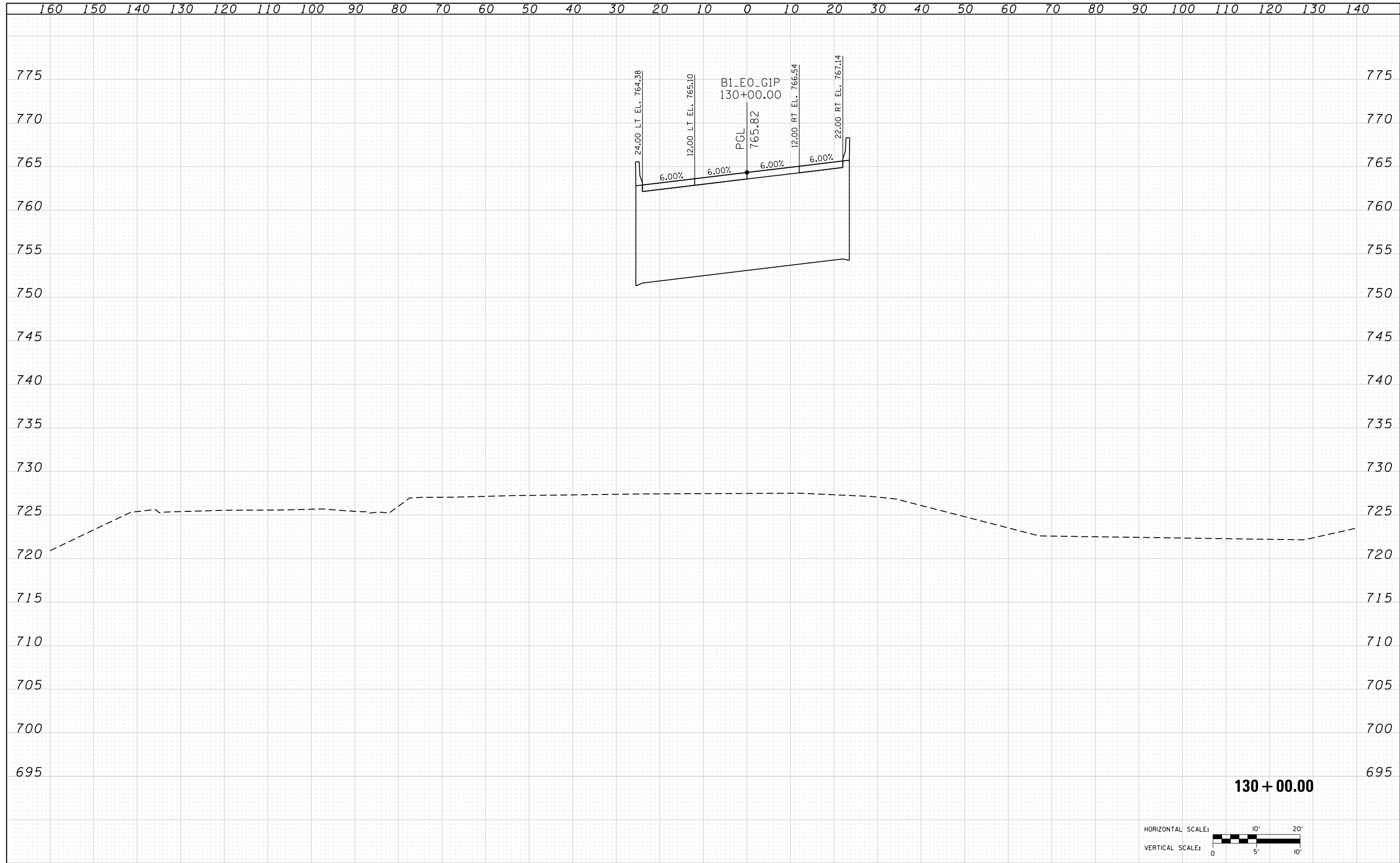
129 + 50.00



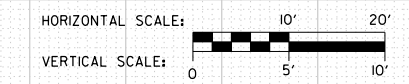
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CH2MHILL		DRAWN - AS	REVISIED -		SCALE:	SHEET NO. 25 OF 60 SHEETS	STA. 129+50.00 TO STA. 129+50.00	F.A.P. RTE. 345
		CHECKED - SML	REVISIED -		DRAWING NO. XS-25		CONTRACT NO. 60Y95	
		DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT			

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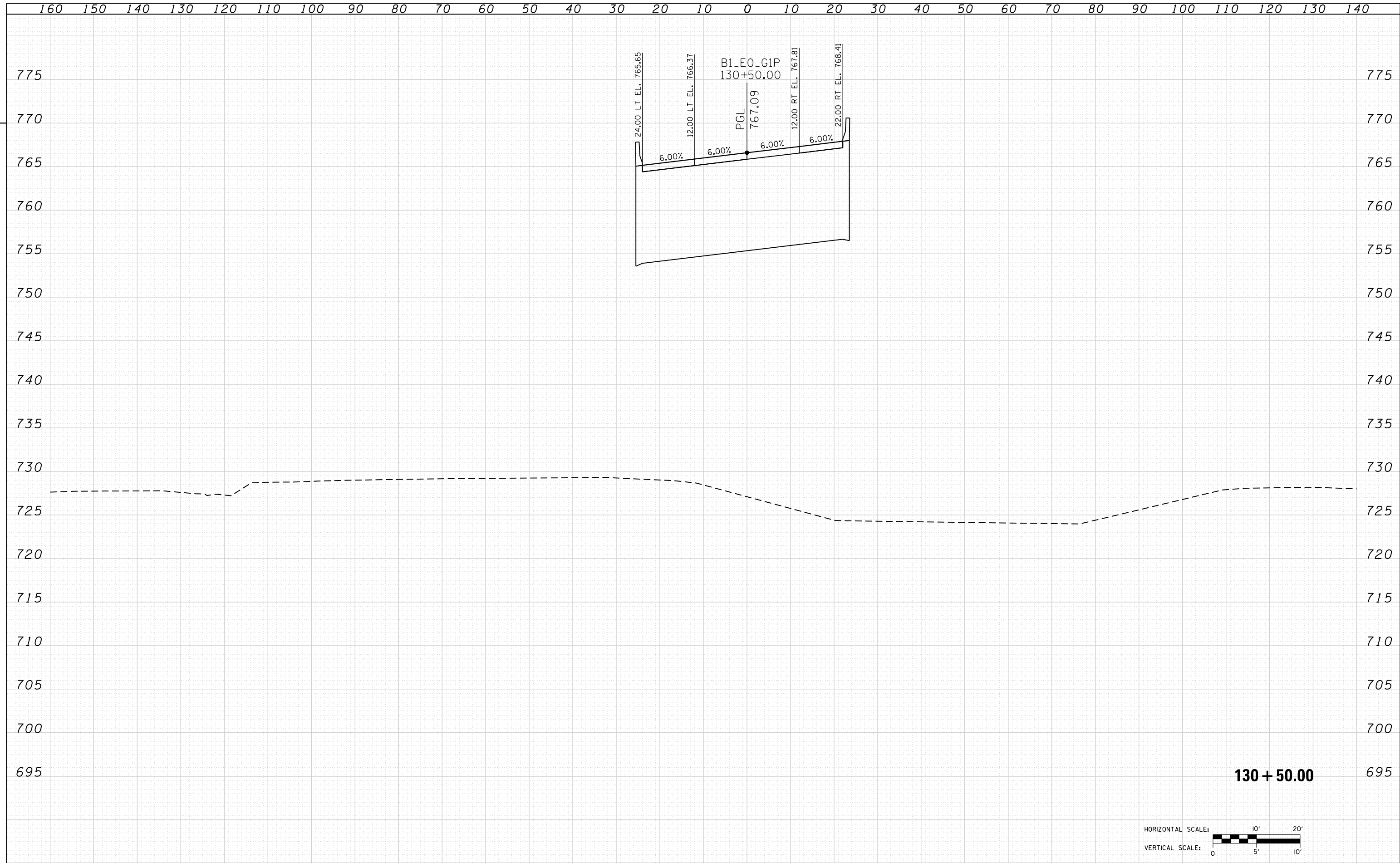
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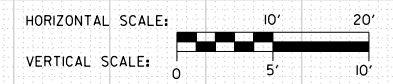
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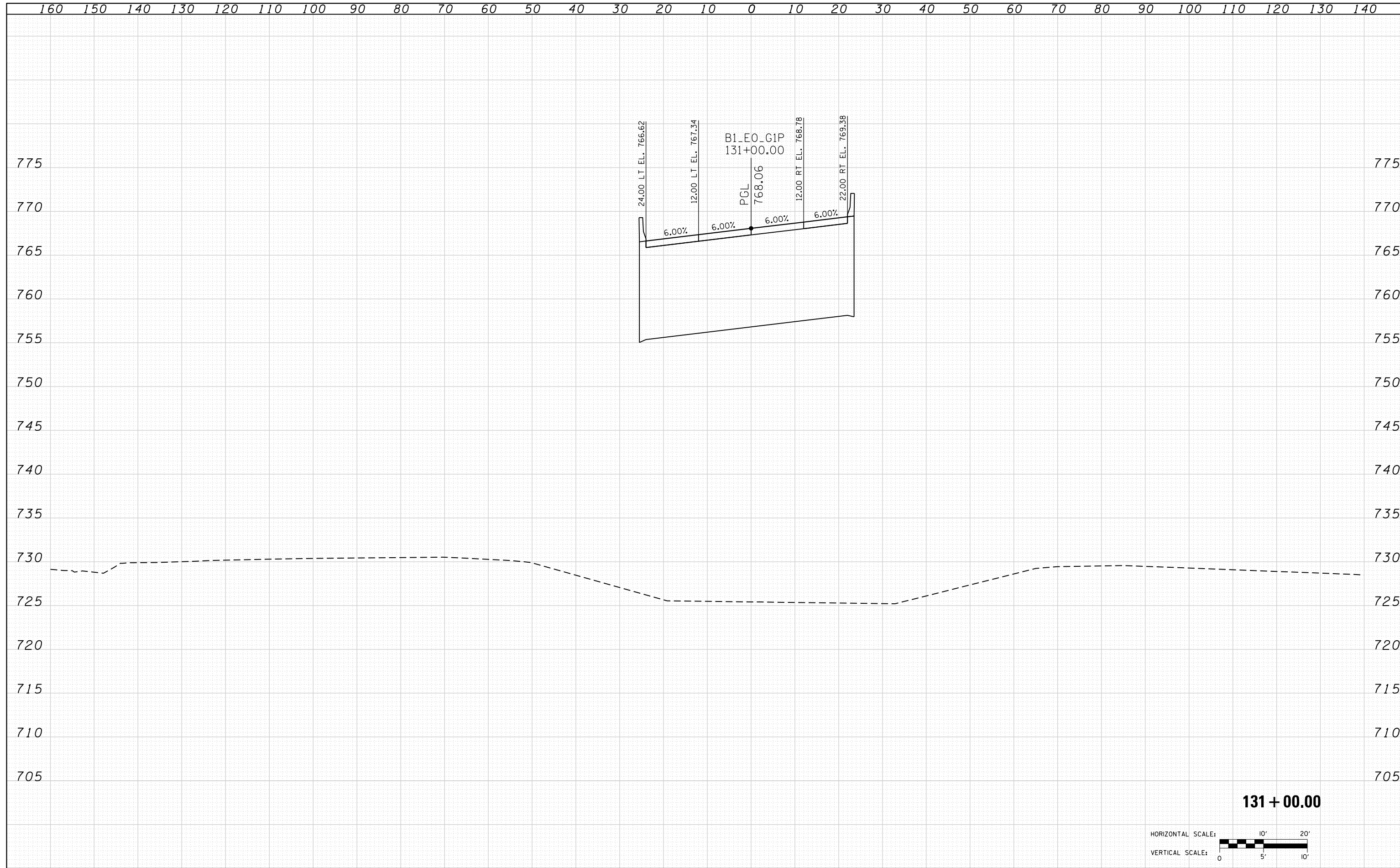
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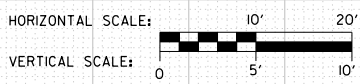
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CH2MHILL	PLOT SCALE : 20.0000' / in.	CHECKED - SML	REVISIED -		SCALE:	SHEET NO. 27 OF 60 SHEETS	STA. 130+50.00	TO STA. 130+50.00	DRAWING NO. XS-27		CONTRACT NO. 60Y95	
	PLOT DATE : 10/28/2014	DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT							

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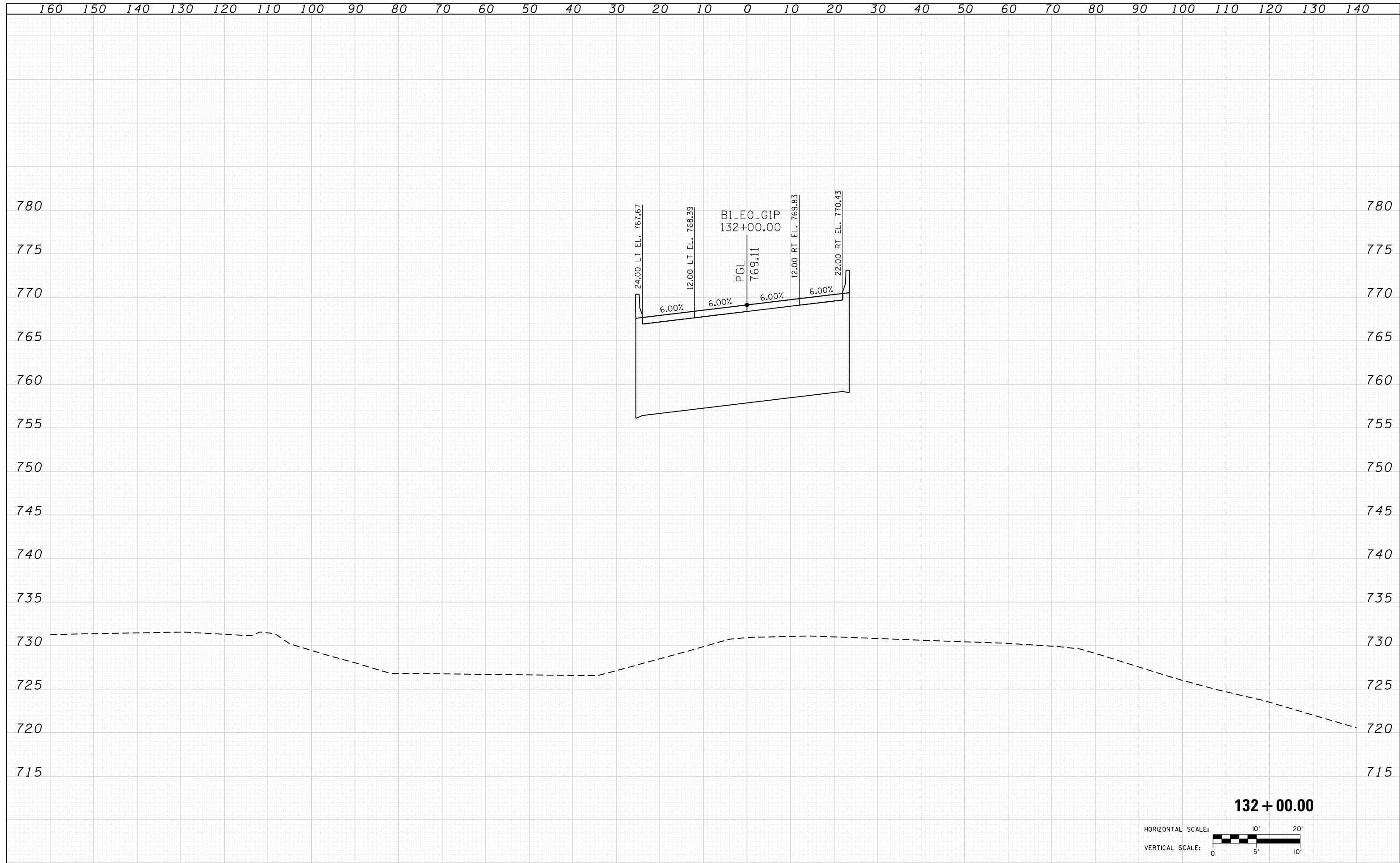
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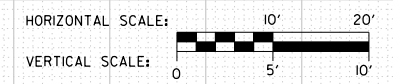
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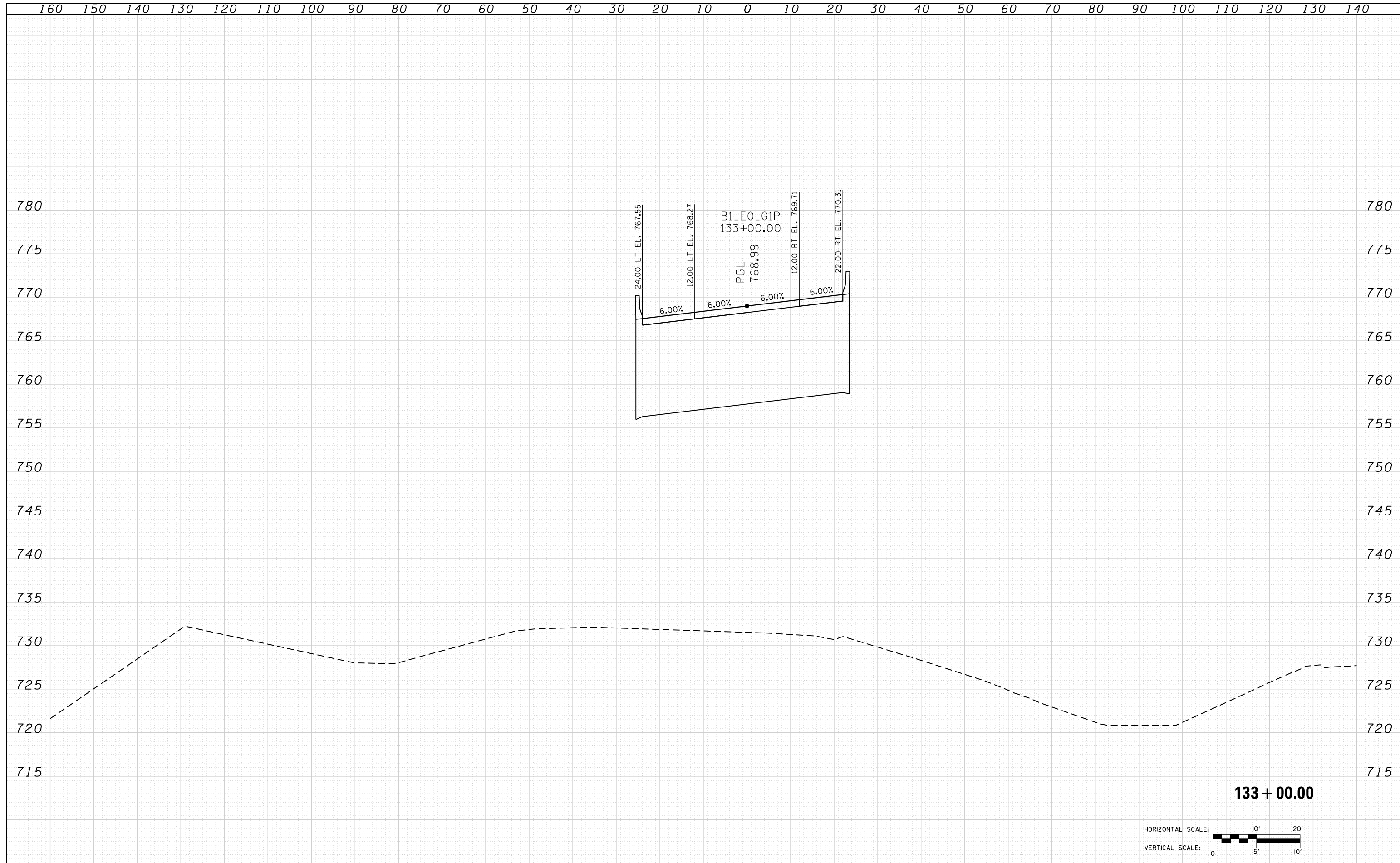
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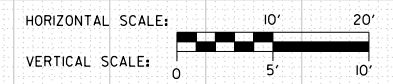
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133 + 00.00



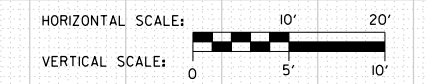
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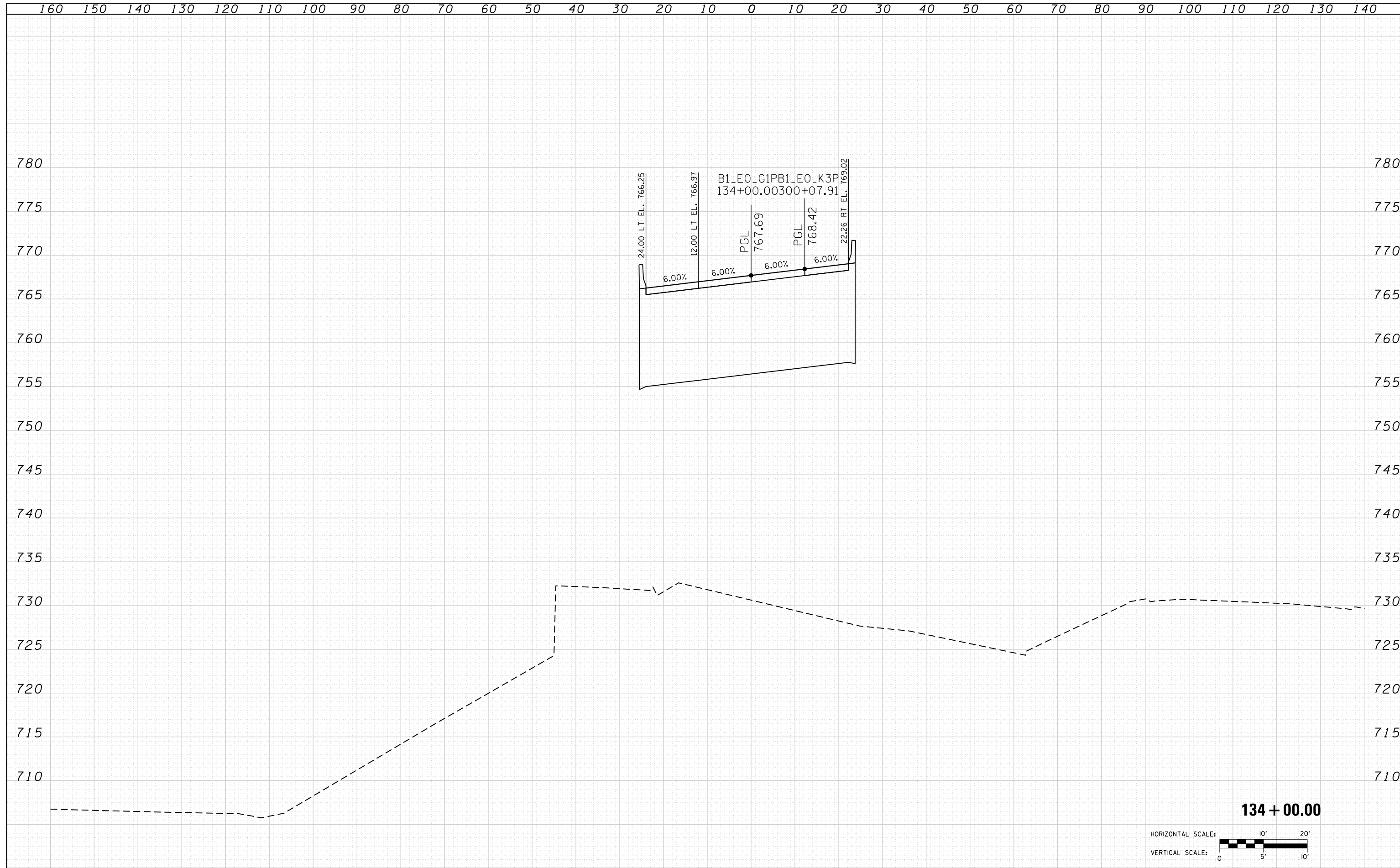
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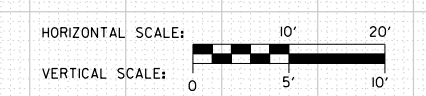
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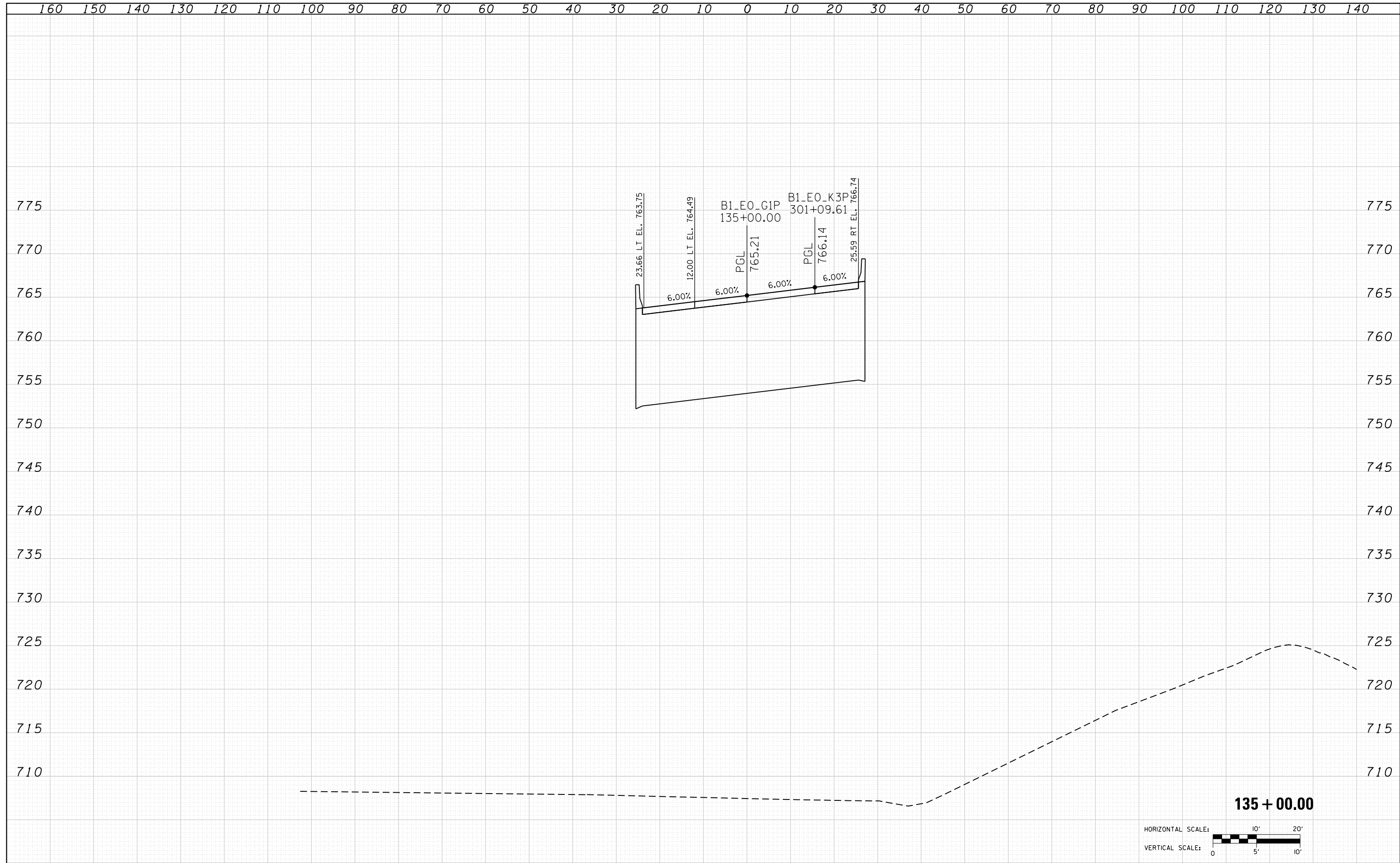
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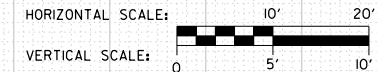
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CH2MHILL	PLOT SCALE : 20.0000' / in.	CHECKED - SML	REVISIED -		SCALE:	SHEET NO. 34 OF 60 SHEETS	STA. 134+00.00	TO STA. 134+00.00	DRAWING NO. XS-34		CONTRACT NO. 60Y95	
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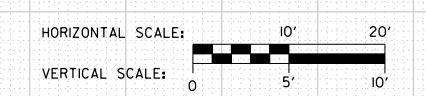
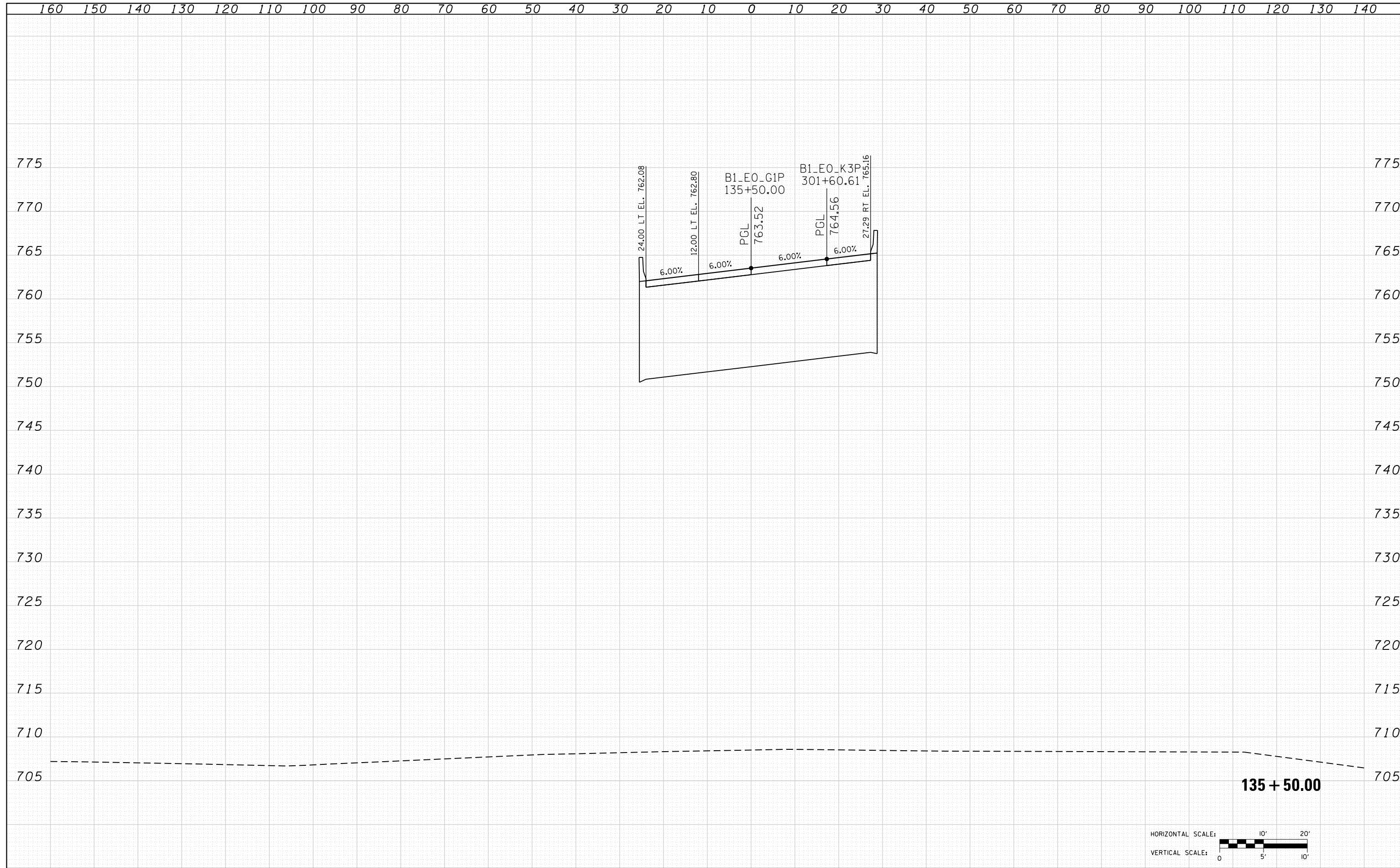
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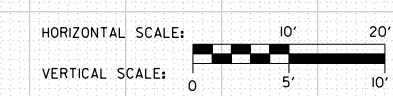
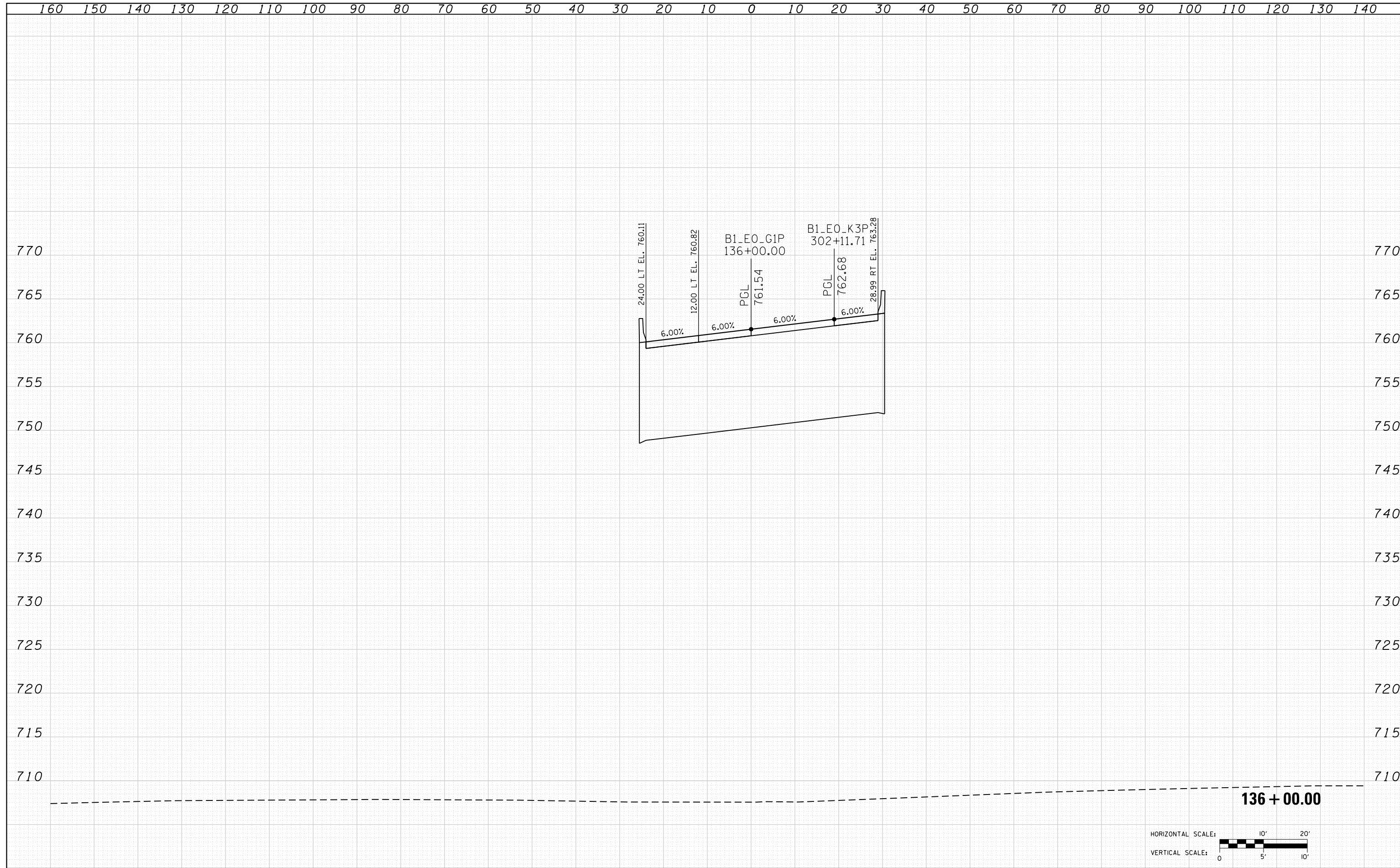
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FILE NAME : D16095-6a-sht-xssht-RampG1.dgn	USER NAME : asantiag	DESIGNED - MS	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1			F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 695
CH2MHILL	PLOT SCALE : 20.0000' / in.	CHECKED - SML	REVISIED -		SCALE:	SHEET NO. 37 OF 60 SHEETS	STA. 135+50.00	TO STA. 135+50.00	DRAWING NO. XS-37		CONTRACT NO. 60Y95	
	PLOT DATE : 10/28/2014	DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY NOTE BOOK NO.	

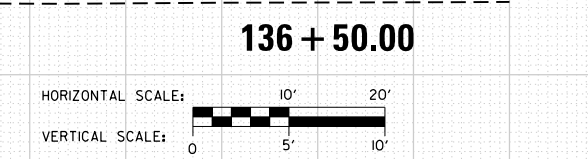
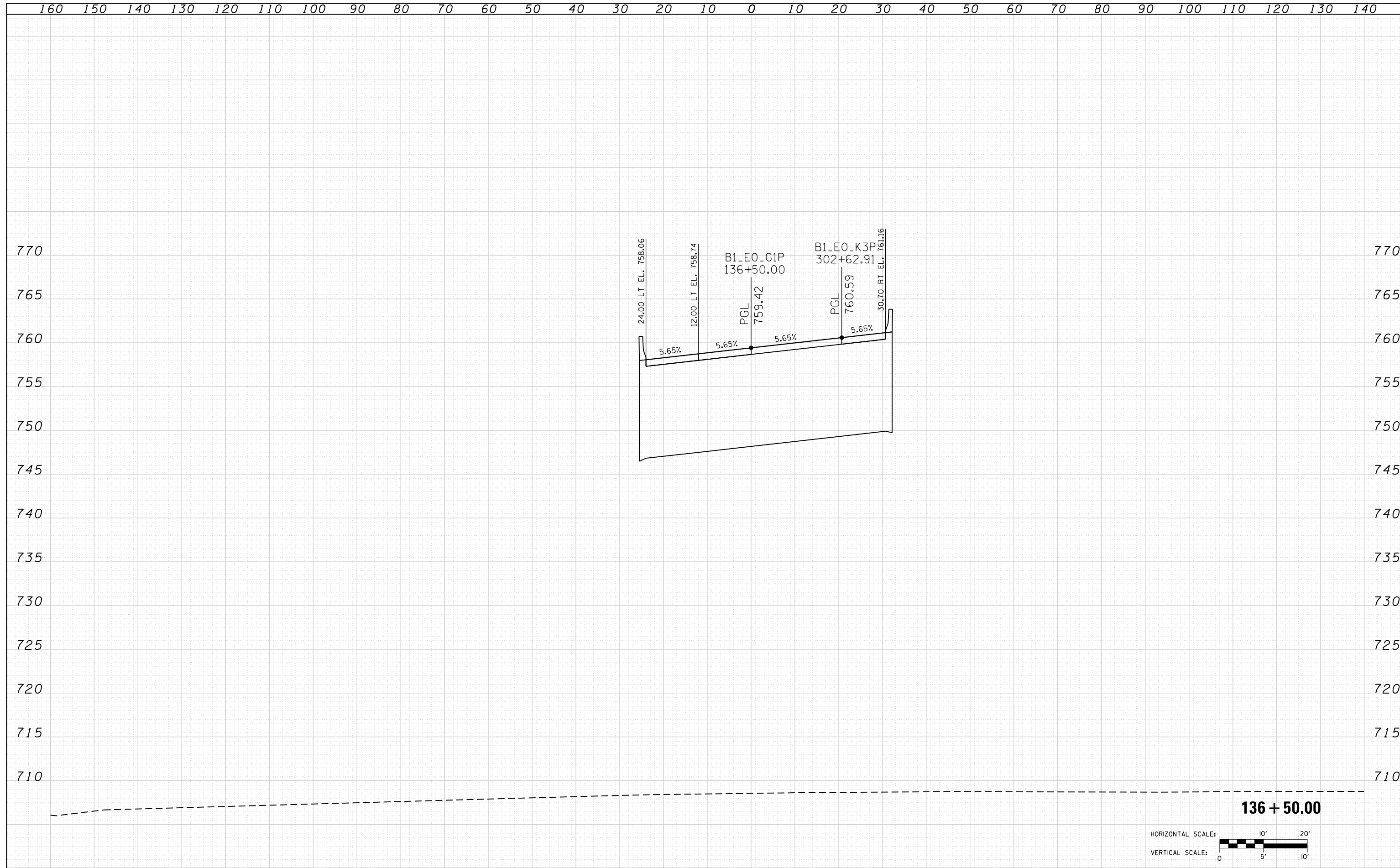
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	PLOT DATE : 10/28/2014	DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT								

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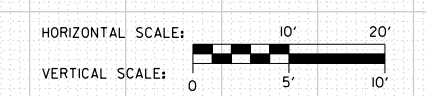
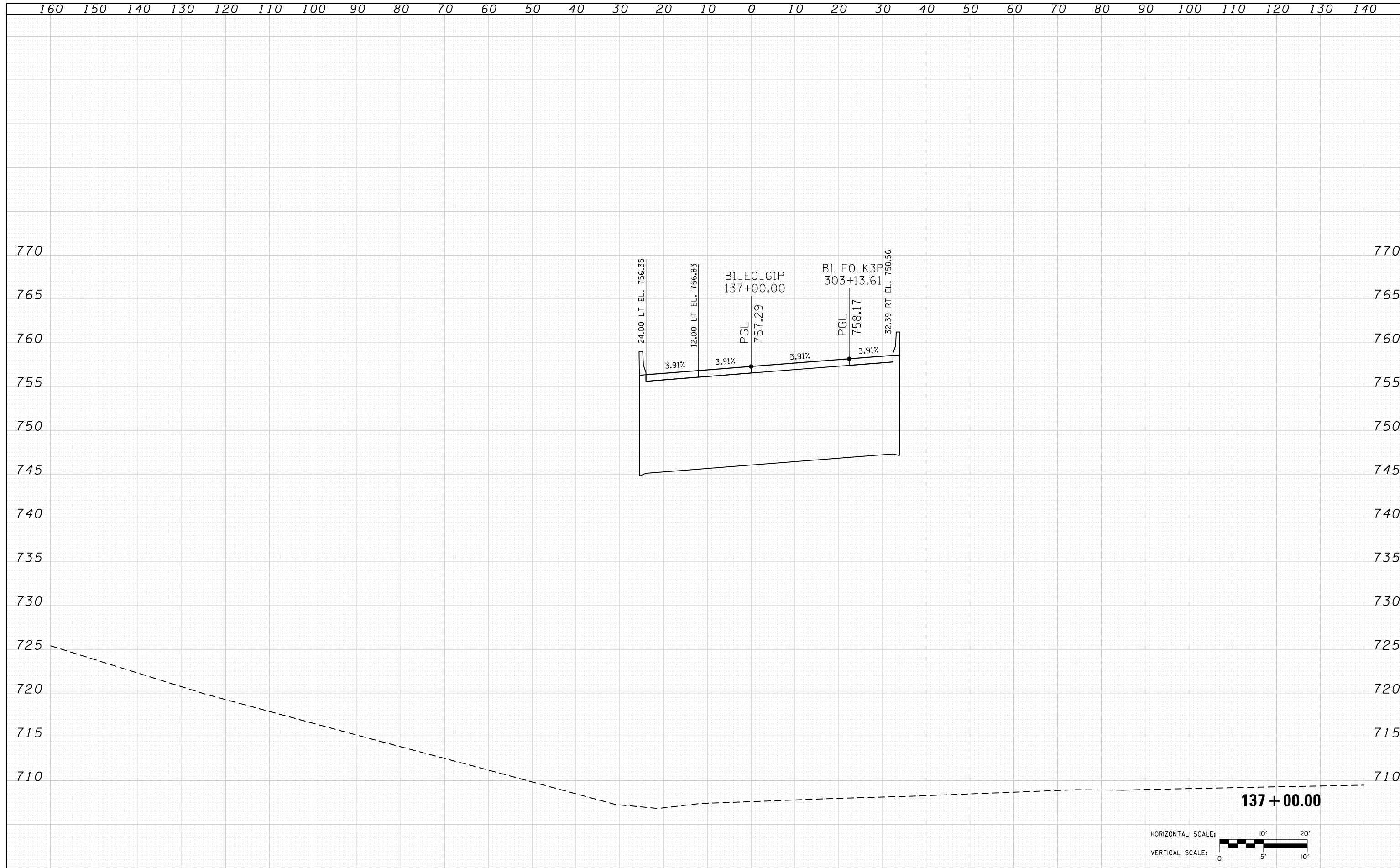
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FILE NAME : D16095-6a-sht-ssht-RampG1.dgn	USER NAME : asantiag	DESIGNED - MS	DRAWN - AS	CHECKED - SML	DATE - 07/07/2014	REVISED -	REVISED -	REVISED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1	SCALE:	SHEET NO. 39 OF 60 SHEETS	STA. 136+50.00 TO STA. 136+50.00	F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 697	DRAWING NO. XS-39	CONTRACT NO. 60Y95	ILLINOIS FED. AID PROJECT
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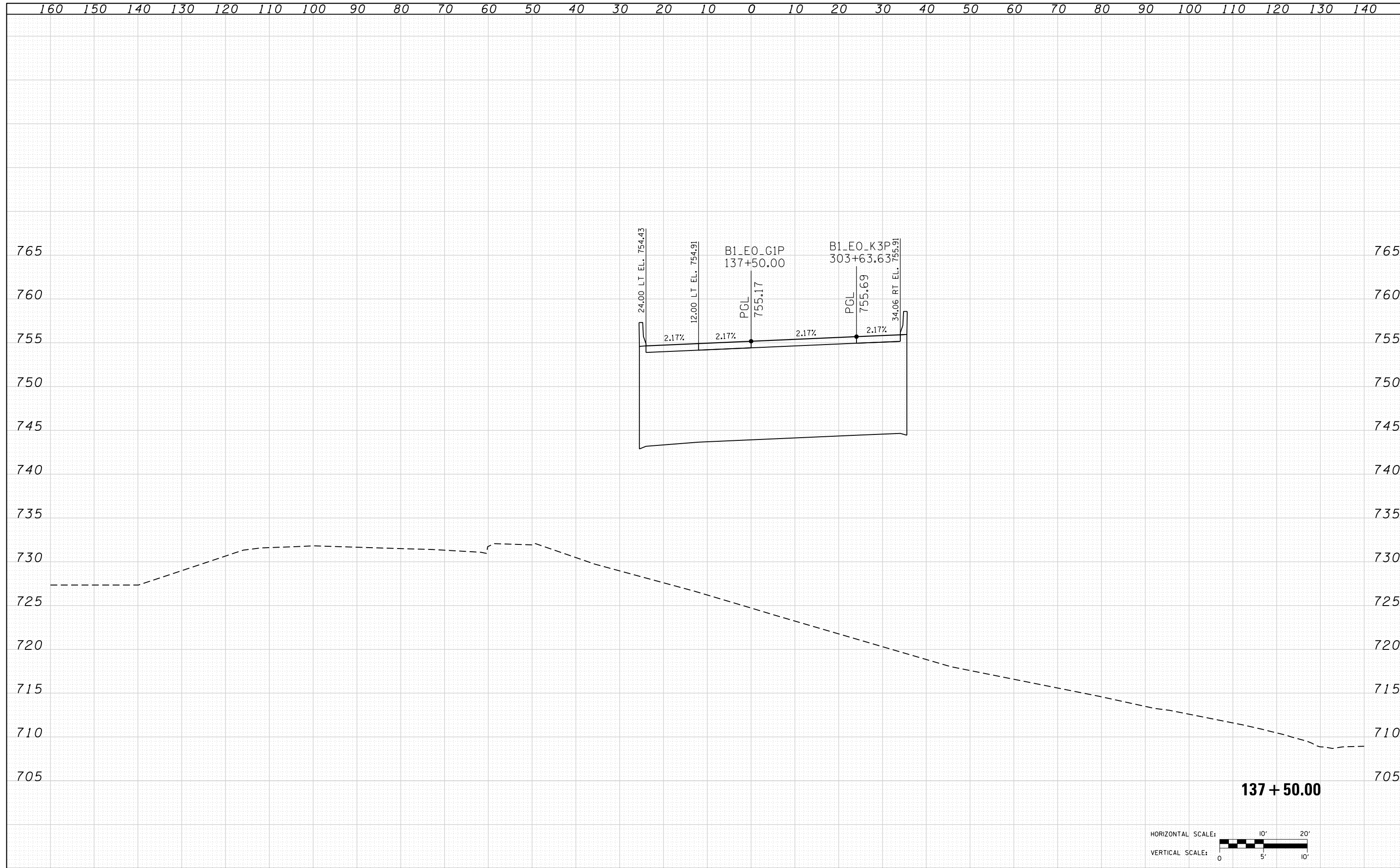
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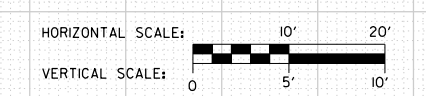
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	PLOT DATE : 10/28/2014	CHECKED - SML	REVISIED -		DRAWING NO. XS-40			CONTRACT NO. 60Y95				
		DATE - 07/07/2014	REVISIED -		SCALE: SHEET NO. 40 OF 60 SHEETS			STA. 137+00.00 TO STA. 137+00.00		ILLINOIS FED. AID PROJECT		

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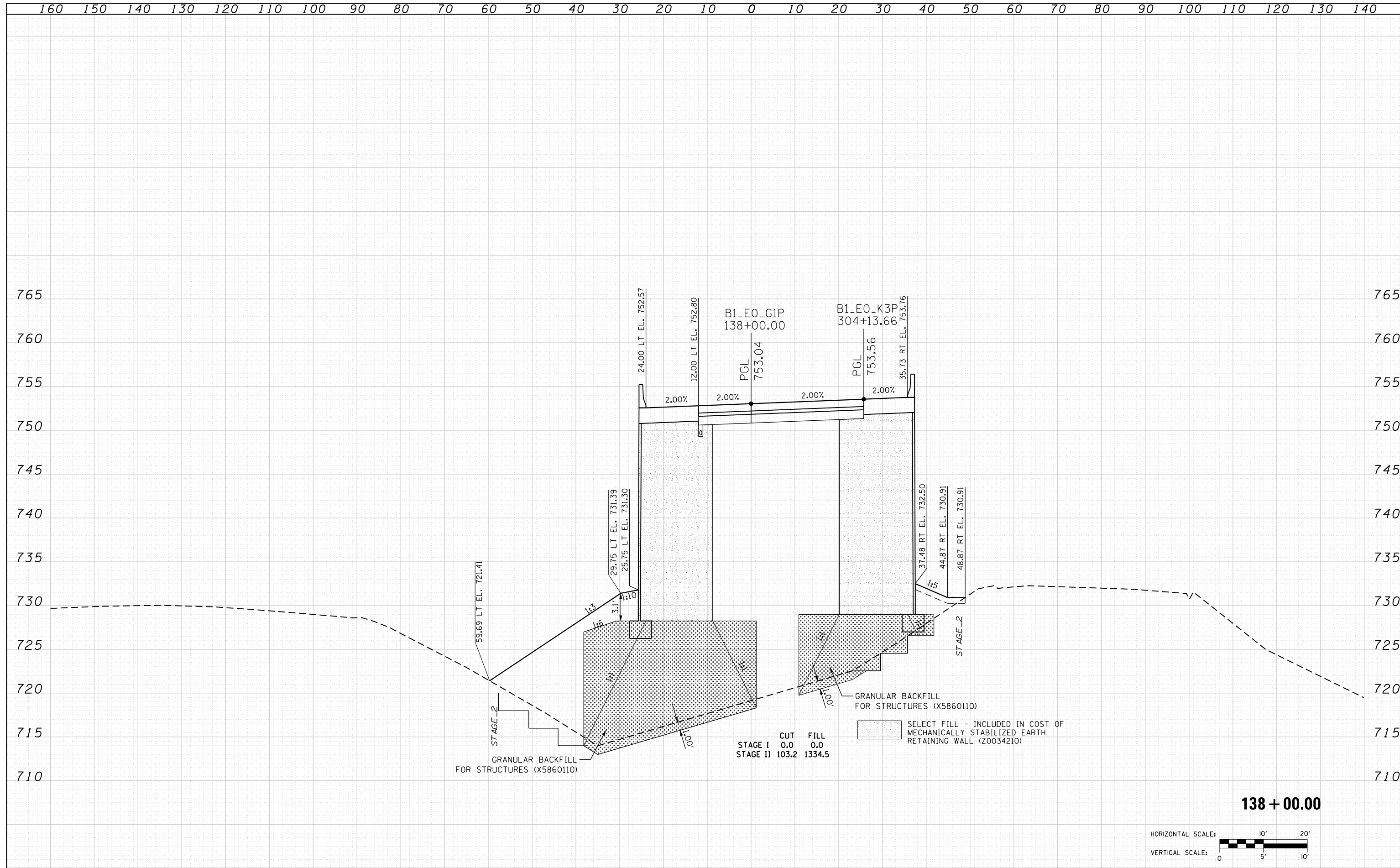
137 + 50.00



FILE NAME : D:\60995-6a-sht-xxsht-RampG1.dgn	USER NAME : asantiag	DESIGNED - MS	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS RAMP G1			F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 699
CH2MHILL	PLOT SCALE : 20.0000 ' / in.	CHECKED - SML	REVISIED -		SCALE:	SHEET NO. 41 OF 60 SHEETS	STA. 137+50.00	TO STA. 137+50.00	DRAWING NO. XS-41		CONTRACT NO. 60Y95	
	PLOT DATE : 10/28/2014	DATE - 07/07/2014	REVISIED -		ILLINOIS FED. AID PROJECT							

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FILE NAME: D:\6095-6a-sht-xssht-RampG1.dgn	USER NAME: asantiag	DESIGNED: MS	REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS			F.A.P. RTE. 345	SECTION 2013-083-R&B	COUNTY DUPAGE	TOTAL SHEETS 759	SHEET NO. 700	
CH2MHILL	PLOT SCALE: 20.0000' / in.	CHECKED: SML	REVISIONS:		SCALE:	SHEET NO. 42 OF 60 SHEETS	STA. 138+00.00 TO STA. 138+00.00	DRAWING NO. XS-42		CONTRACT NO. 60Y95			
	PLOT DATE: 10/28/2014	DATE: 07/07/2014	REVISIONS:		ILLINOIS FED. AID PROJECT								