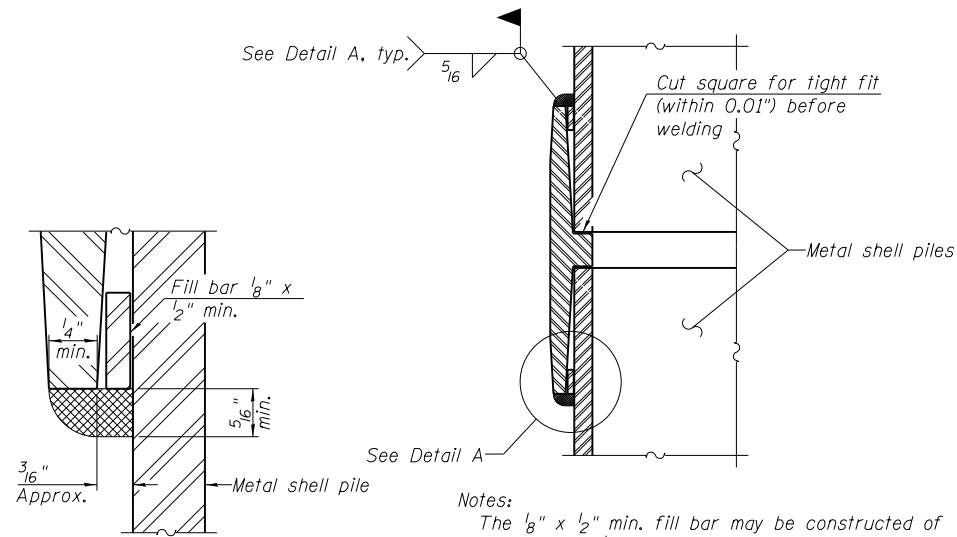


METAL SHELL PILE TABLE

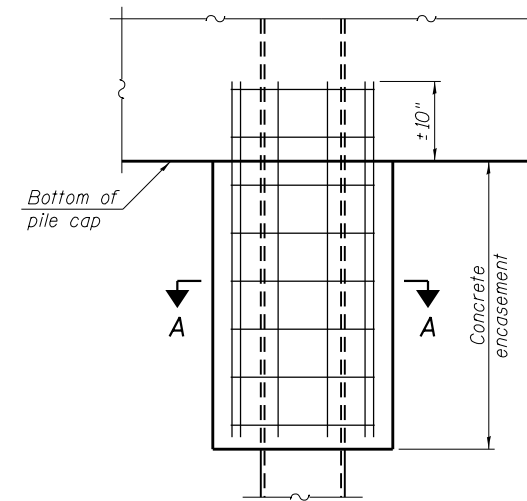
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



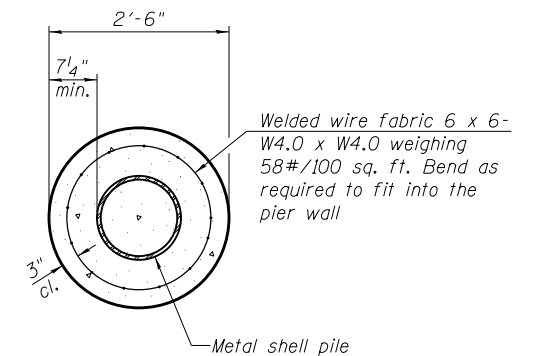
DETAIL A

Notes:
 The $\frac{1}{8}$ " x $\frac{1}{2}$ " min. fill bar may be constructed of 2 bars with a $\frac{1}{8}$ " max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



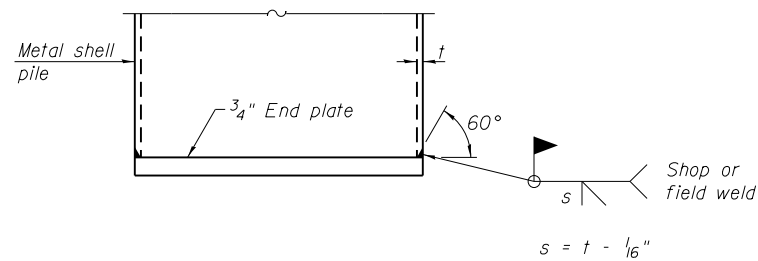
ELEVATION



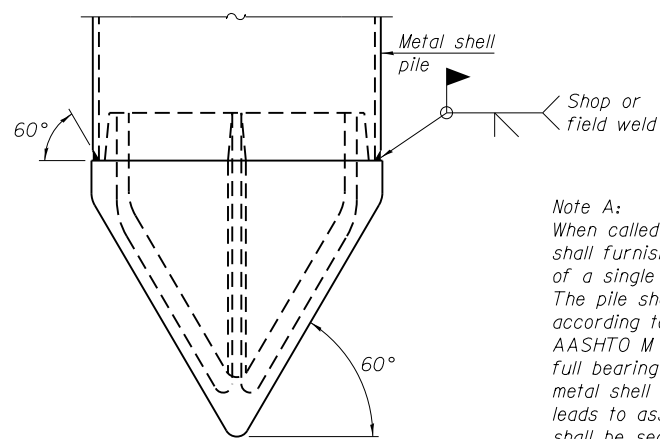
SECTION A-A

Note:
 Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS



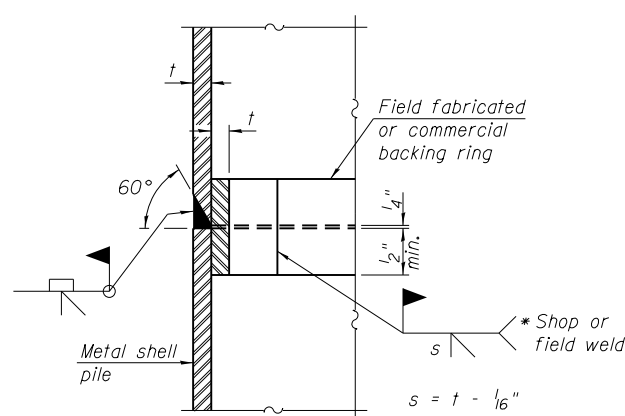
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

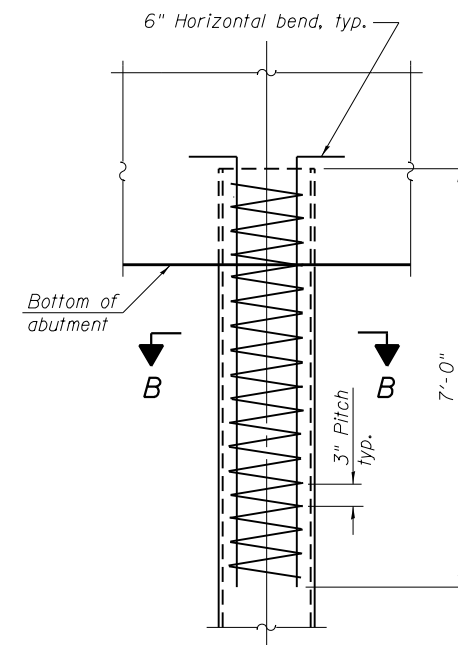
(See Note A)

Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



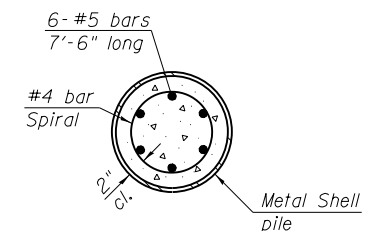
COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS

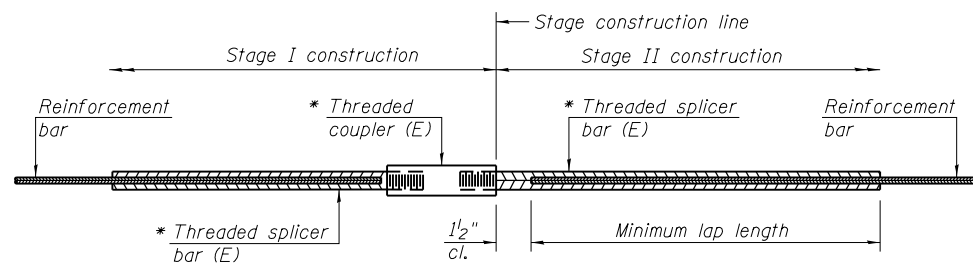


SECTION B-B

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 1-27-12

FILE NAME = 0101050-70897-031-Metal Shell Pile Details BFW BACON FARMER WORKMAN ENGINEERING & TESTING, INC. 433 NORTH COURT STREET MAHOMET, ILLINOIS 62450 PHONE = 618.937.9100	USER NAME =	DESIGNED - AAH CHECKED - BWP	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	METAL SHELL PILE DETAILS STRUCTURE NO. 010-1050	F.A.P. RTE. 719	SECTION (10-34HB)BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 147	SHEET NO. 101
	PLOT SCALE =	DRAWN - BJV CHECKED - BWP	REVISED - REVISED -			SHEET NO. 31 OF 36 SHEETS	CONTRACT NO. 70B98	ILLINOIS FED. AID PROJECT		

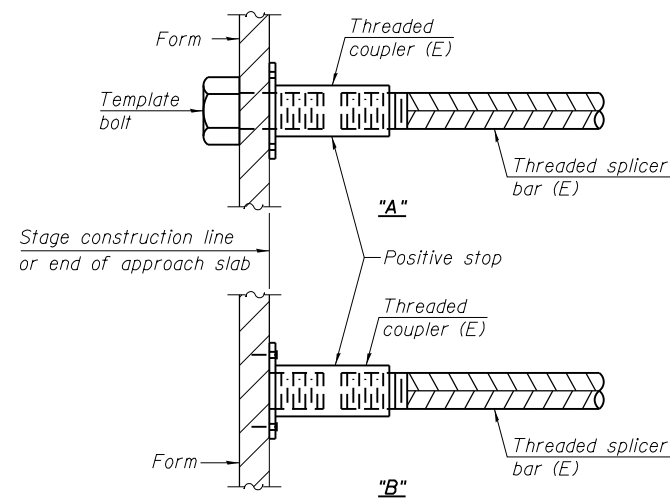


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	1167	3'-6"
Diaphragms	#6	22	4'-0"
Approach Slab	#4	62	2'-7"
Approach Footings	#5	80	3'-2"
West Abutment Cap	#7	10	5'-0"
West Abutment Step	#5	4	3'-7"
East Abutment Cap	#7	10	5'-0"
East Abutment Step	#5	4	3'-7"
Pier Cap	#9	22	10'-4"
Pier Cap	#5	20	3'-9"
Pier Crash Wall	#8	5	8'-2"
Pier Footing	#5	20	3'-9"

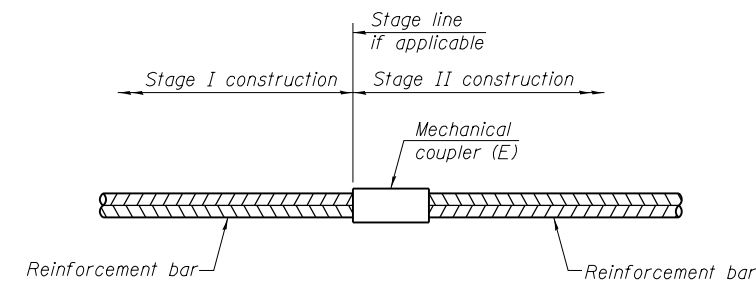


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

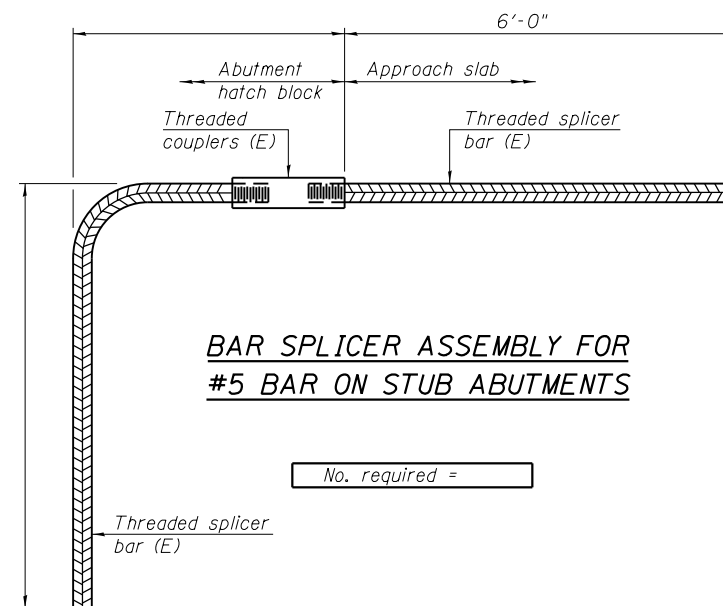
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier Column	#8	56
Pier Crash Wall	#6	72



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

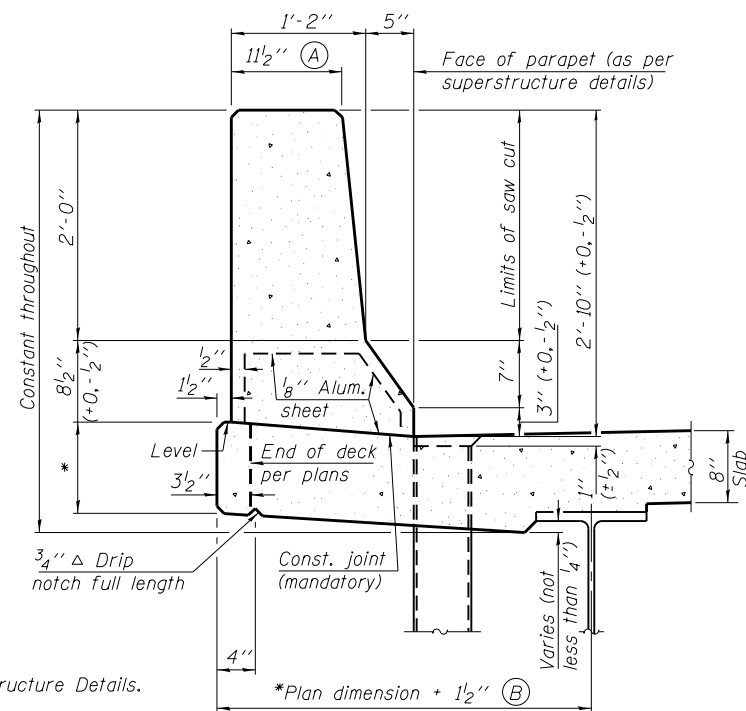
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 11-22-2016

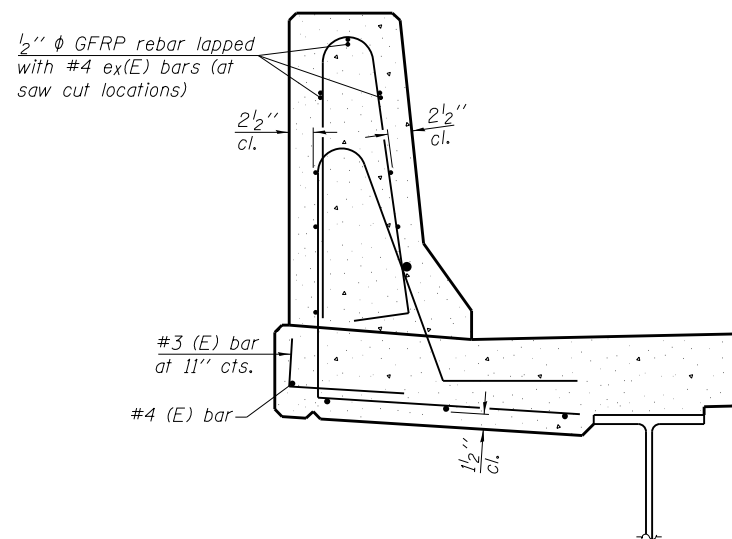
FILE NAME = 0101050-70897-032-Bar Splicers.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 010-1050	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BACON FARMER WORKMAN ENGINEERING & TESTING, INC.		CHECKED - BWP	REVISED -			719	(10-34HB)BR-1	CHAMPAIGN	147	102
433 NORTH COURT STREET MARENA, ILLINOIS 62957 PHONE: 618.937.9100	PLOT SCALE =	DRAWN - BJV	REVISED -			CONTRACT NO. 70B98				
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -			SHEET NO. 32 OF 36 SHEETS			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.

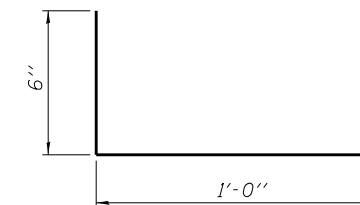


34" F SHAPE PARAPET SECTION
(Showing dimensions)

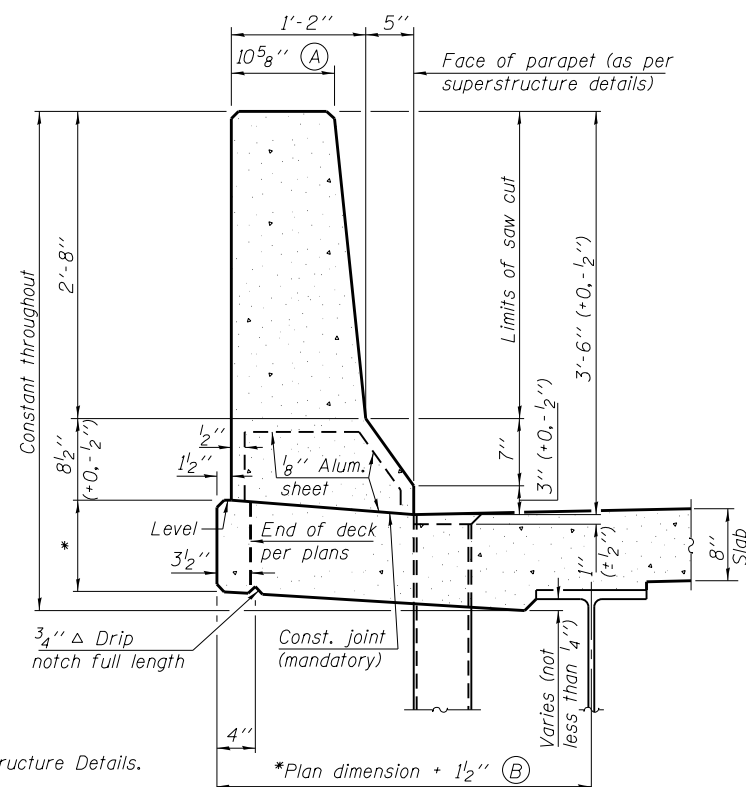


SECTION

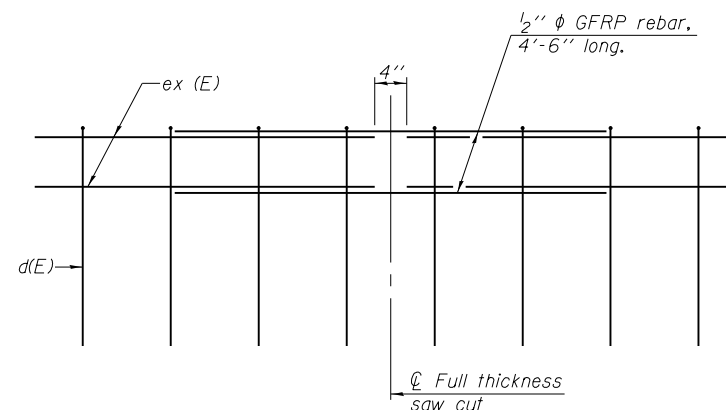
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



#3 (E) BAR

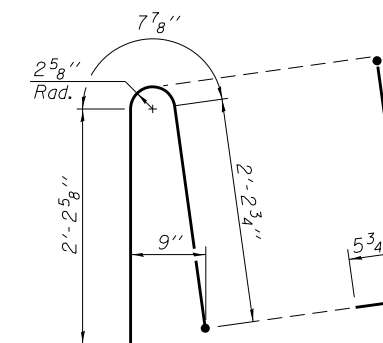


42" F SHAPE PARAPET SECTION
(Showing dimensions)

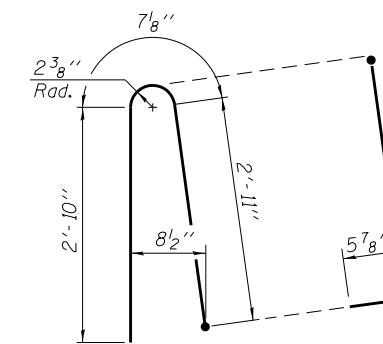


GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)

SFP 34-42

11-22-2016

FILE NAME = 0101050-70897-033- Concrete Parapet Slipforming Option.dgn
 BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 433 NORTH COURT STREET
 MARIETTA, IL 60138-0099
 PHONE = 815.977.9100

DESIGNED - AAH	REVISED -
CHECKED - BWP	REVISED -
DRAWN - BJV	REVISED -
CHECKED - BWP	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 010-1050**

SHEET NO. 33 OF 36 SHEETS

F.A.P. RTE. 719	SECTION (10-34HB)BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 147	SHEET NO. 103
				CONTRACT NO. 70B98
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 1/22/15

ROUTE I-57/74 DESCRIPTION East Abut Bloomington Rd./I-57 LOGGED BY TLM

SECTION 10(5-1-RS-1, 14-1.6)R LOCATION SEC. 34, TWP. 20N, RNG. 8E, 3 PM

COUNTY Champaign DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	n/a ft	E	L	C	O
	P	O	S	I	Stream Bed Elev.	P	O	S	I
	T	W	Qu	T		H	S	Qu	T
BORING NO.B-3 (Bloomington Rd I-57)	H	S			Groundwater Elev.:				
Station 159+25					First Encounter 725.0 ft				
Offset 12.0ft Right					Upon Completion				
Ground Surface Elev. 791.30 ft	(ft)	(tsf)	(%)		After Hrs.	(ft)	(tsf)	(%)	
19" HMA (no base course)					SILTY CLAY: Gray/Brown/Black, very stiff				
789.72									
FILL: Silty Clay Loam, brown, hard		5							
		4	4.5	11.8					
		6	P						
		3				3			
786.80		4	2.89	22.0		4	3.30	25.3	
SILTY CLAY: Black, stiff		8	B			6	B		
		4							
		4	1.5	27.8					
783.80		6	P		SILTY CLAY LOAM TILL: Olive Brown/Gray, soft				
		3				2			
		3	1.65	18.5		3	0.74	14.8	
SILTY CLAY: Brown, very stiff		7	B			4	B		
		3							
		3	2.47	18.9					
		6	B		SILTY CLAY LOAM TILL: Brown, stiff				
		3				2			
		5	2.89	23.0		5	1.65	14.7	
		6	B			5	B		
		3							
773.80		4	3.30	25.6	SILTY CLAY LOAM TILL: Gray, hard				
SILTY CLAY: Dark Gray, very stiff		6	B						
		3				6			
		4	3.50	25.1		8	3.71	10.8	
		6	B			9	B		
		3							
771.30		6				8			
		9				9			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: P:\GINT\PROJECTS\15774 CHAMPAIGN COUNTY.GPJ Data Template D:\TEMP\T.GDT Date Printed 3/2/15



SOIL BORING LOG

Date 1/22/15

ROUTE I-57/74 DESCRIPTION East Abut Bloomington Rd./I-57 LOGGED BY TLM

SECTION 10(5-1-RS-1, 14-1.6)R LOCATION SEC. 34, TWP. 20N, RNG. 8E, 3 PM

COUNTY Champaign DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	n/a ft	E	L	C	O
	P	O	S	I	Stream Bed Elev.	P	O	S	I
	T	W	Qu	T		H	S	Qu	T
BORING NO.B-3 (Bloomington Rd I-57)	H	S			Groundwater Elev.:				
Station 159+25					First Encounter 725.0 ft				
Offset 12.0ft Right					Upon Completion				
Ground Surface Elev. 791.30 ft	(ft)	(tsf)	(%)		After Hrs.	(ft)	(tsf)	(%)	
SILTY CLAY LOAM TILL: Gray, hard (continued)					SILTY CLAY LOAM TILL: Gray, hard (continued)				
		5							
		6	3.50	12.1					
		8	B						
		7				7			
		20	2.89	7.6		20	2.89	7.6	
		33	B			33	B		
		6							
		7							
		14				14			
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EXIST. CURVE US150-6
 PI STA. = 146+64.98
 $\Delta = 35^\circ 19' 30''$ (LT)
 $D = 3^\circ 19' 42''$
 $R = 1,721.38'$
 $T = 548.12'$
 $L = 1,061.30'$
 $E = 85.16'$
 PC STA. = 144+16.86
 PT STA. = 154+78.15

PROP. CURVE RAMPC-2
 PI STA. = 320+51.51
 $\Delta = 124^\circ 20' 18''$ (RT)
 $D = 11^\circ 56' 12''$
 $R = 480.00'$
 $T = 909.21'$
 $L = 1,041.65'$
 $E = 548.14'$
 PCC STA. = 311+42.29
 PCC STA. = 321+83.95

PROP. CURVE RAMPC-3
 PI STA. = 330+93.16
 $\Delta = 124^\circ 20' 18''$ (RT)
 $D = 11^\circ 56' 12''$
 $R = 480.00'$
 $T = 909.21'$
 $L = 1,041.65'$
 $E = 548.14'$
 PCC STA. = 321+83.95
 PCC STA. = 332+25.60

5406004
TAG WAREHOUSE, LLC
 DOCUMENT NO. 2013R29622
 TOTAL HOLDING AREA = 27.72 AC.±
 TOTAL ROW AREA REQUIRED = 16.092 AC.±
 AREA OF REMAINING = 11.62 AC.±
 TOTAL TEMPORARY EASEMENT AREA REQUIRED = 1.277 AC.±

5406005
GORDON KEMPER
 DOCUMENT NO. 2007R33786
 TOTAL HOLDING AREA = 4.47 AC.±
 TOTAL ROW AREA REQUIRED = 0.087 AC.±
 AREA OF REMAINING = 4.383 AC.±

LAND ACQUISITION PROJECT
 BEGINS STATION 575+80.00

NOTES

BEARING BASED ON ILLINOIS
 STATE PLANE COORDINATES,
 EAST ZONE NAD 83 (1983/07)

- ☒ RIGHT OF WAY MARKER FOUND
- IRON PIN OR PIPE FOUND
- ⊙ PERMANENT SURVEY MARKER FOUND
- △ STONE FOUND
- FENCE POST FOUND
- x - x - x EXISTING FENCE
- () RECORD DATA
- FIELD WORK COMPLETED = 2018

NW 1/4 SEC. 3, T.19 N., R. 8 E. OF 3RD P.M.

5406002
TAG WAREHOUSE, LLC
 TOTAL HOLDING AREA = 62.16 AC.±
 TOTAL ROW AREA REQUIRED = 0.302 AC.±
 TRACT "A" ROW AREA REQUIRED = 0.054 AC.±
 TRACT "B" ROW AREA REQUIRED = 0.248 AC.±
 AREA OF REMAINING = 61.858 AC.±

**SW 1/4, SEC. 34, T.20 N.,
 R. 8 E. OF 3RD P.M.**

CARDINAL RD

5406005

152+75.00, 120.05' RT.
 US 150 BEGIN A/C LINE

152+75.00, 130.00' RT.
 US 150

PROPOSED R.O.W.
 & A/C LINE

154+78.15, 130.00' RT.
 US 150

155+65.53
 130.00' RT.
 US 150

243+00.00, 50.00' RT.
 RAMP B END A/C LINE

243+36.49
 43.43' RT.
 RAMP B

5406002B

579+65.00, 175.20' RT.
 FAI 57 END A/C LINE

160+90.32, 125.00' RT.
 US 150 BEGIN A/C LINE

NE COR, NW 1/4,
 SEC. 3-19-8
 FOUND IRON PIPE
 PER MON. RECORD
 DOC. NO. *89R18100

PROPOSED R.O.W. & A/C LINE
 TRACT "A"

161+60.00
 125.00' RT.
 US 150

161+90.00
 88.47' RT.
 US 150
 END A/C LINE

**NE 1/4 SEC. 3, T.19 N.,
 R. 8 E. OF 3RD P.M.**

5406001
PKT DEVELOPMENT, LTD.
 DOCUMENT NO. 89R24633
 TOTAL HOLDING AREA = 10.983 AC.±
 TOTAL ROW AREA REQUIRED = 0.618 AC.±
 AREA OF REMAINING = 10.365 AC.±

**SE 1/4 SEC. 34, T.20 N.,
 R. 8 E. OF 3RD P.M.**

FILE NAME
 ...5406XXX.sht_ROW Plan_001.dgn

USER NAME = Rob Heady
 PLOT SCALE = 200.0000' / in.
 PLOT DATE = 6/3/2019 - 12:05:27 PM

DESIGNED - BJD
 DRAWN - RAH
 CHECKED - SPH
 DATE - 05/29/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

PROJECT: STA. 568+00 TO STA. 598+50
 JOB NO. R-95-040-16
 SHEET 1 OF 2 SHEETS

F.A.I. RTE. 57&74	SECTION (10-34HB)BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 147	SHEET NO. 107
SCALE: 1" = 200'		CONTRACT NO. 70B98		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PROP. CURVE RAMPC-2
 PI STA. = 320+51.51
 $\Delta = 124^\circ 20' 18''$ (RT)
 $D = 11^\circ 56' 12''$
 $R = 480.00'$
 $T = 909.21'$
 $L = 1,041.65'$
 $E = 548.14'$
 PCC STA. = 311+42.29
 PCC STA. = 321+83.95

PROP. CURVE RAMPC-3
 PI STA. = 330+93.16
 $\Delta = 124^\circ 20' 18''$ (RT)
 $D = 11^\circ 56' 12''$
 $R = 480.00'$
 $T = 909.21'$
 $L = 1,041.65'$
 $E = 548.14'$
 PCC STA. = 321+83.95
 PCC STA. = 332+25.60

5406003
 WEST CONGREGATION OF JEHOVAH'S
 WITNESSES, CHAMPAIGN IL
 DOCUMENT NO. 2008R10331
 TOTAL HOLDING AREA = 5.00 AC.±
 TOTAL ROW AREA REQUIRED = 0.286 AC.±
 AREA OF REMAINING = 4.714 AC.±

5406004
 TAG WAREHOUSE, LLC
 DOCUMENT NO. 2013R29622
 TOTAL HOLDING AREA = 27.72 AC.±
 TOTAL ROW AREA REQUIRED = 16.092 AC.±
 AREA OF REMAINING = 11.62 AC.±
 TOTAL TEMPORARY EASEMENT AREA REQUIRED = 1.277 AC.±

5406006
 CITY OF CHAMPAIGN, IL
 TOTAL ROW AREA = 2.402 AC.±
 TOTAL ROW AREA REQUIRED = 0.540 AC.±
 TOTAL ROW REMAINING = 1.862 AC.±

EXIST. R.O.W. & A/C

1860+00 1861 1862 1863 1864 1865+00 1866 1867 1868 1869 1870+00 1036 1037 1038 1039 1040+00 1041 1042 1043 1044 1045+00 1046 1047 1048 1049 1050+00 1051 1052 1053 1054

EXIST. R.O.W. & A/C

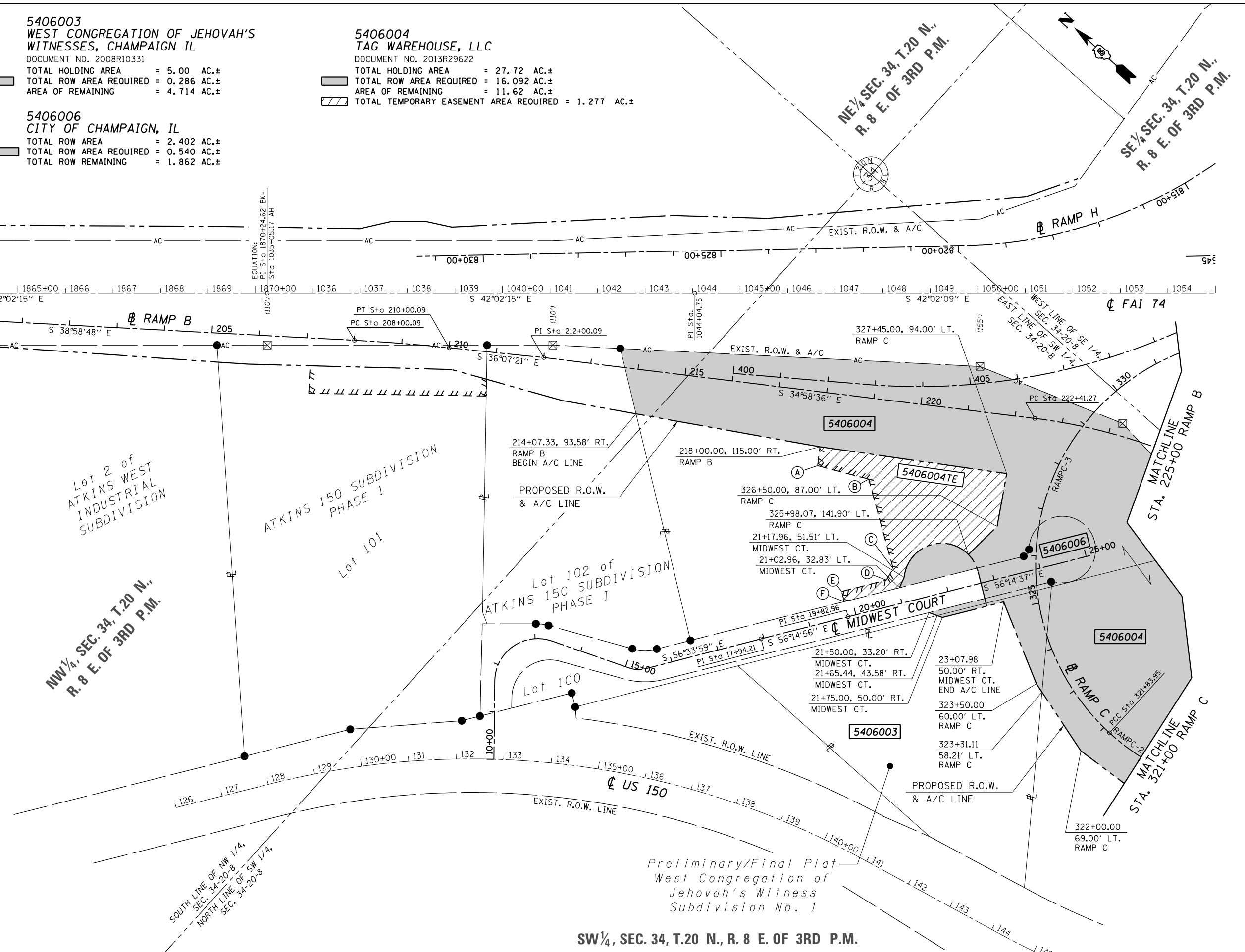
5406004 TE
 STATION CALLOUTS

- (A) 218+00.00, 155.00' RT. RAMP B
- (B) 219+10.00, 170.00' RT. RAMP B
- (C) 21+00.00, 75.00' LT. MIDWEST CT.
- (D) 20+80.00, 55.00' LT. MIDWEST CT.
- (E) 19+82.96, 55.00' LT. MIDWEST CT.
- (F) 19+82.96, 33.00' LT. MIDWEST CT.

NOTES

BEARING BASED ON ILLINOIS
 STATE PLANE COORDINATES,
 EAST ZONE NAD 83 (1983/07)

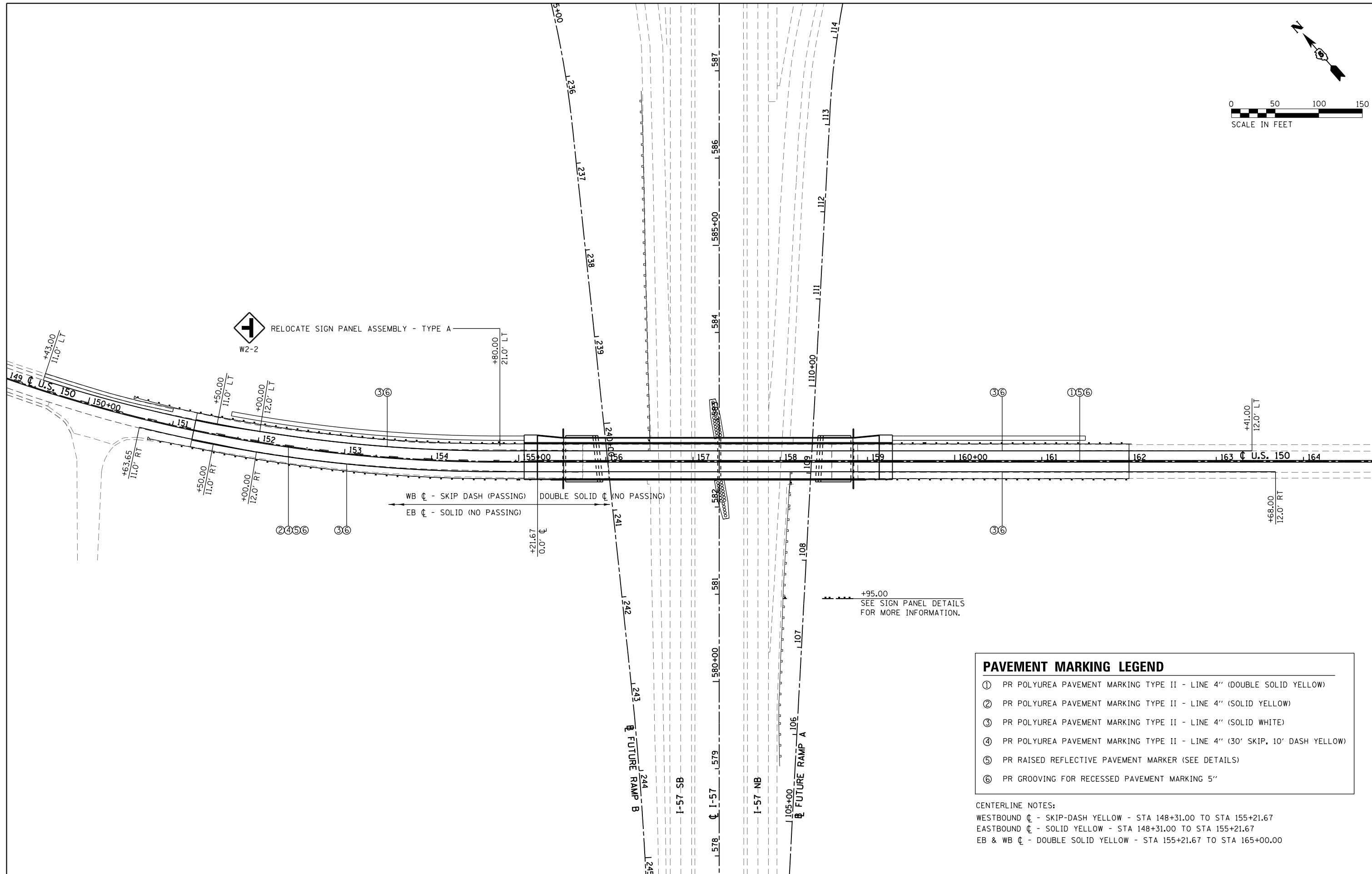
- ⊗ RIGHT OF WAY MARKER FOUND
 - IRON PIN OR PIPE FOUND
 - ⊙ PERMANENT SURVEY MARKER FOUND
 - △ STONE FOUND
 - FENCE POST FOUND
 - x - x - x EXISTING FENCE
 - () RECORD DATA
- FIELD WORK COMPLETED = 2018



SW 1/4, SEC. 34, T.20 N., R. 8 E. OF 3RD P.M.

Preliminary/Final Plat
 West Congregation of
 Jehovah's Witness
 Subdivision No. 1

FILE NAME	USER NAME = *USER*	DESIGNED - BJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS		F.A.I. R.T.E. 57&74	SECTION (10-34HB)BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 147	SHEET NO. 108	
*FILE#		DRAWN - RAH	REVISED -		PROJECT	JOB NO. R-95-040-16	SCALE: 1" = 200'	SHEET 2 OF 2 SHEETS	STA. 1860+00 TO STA. 1055+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 70B98
		CHECKED - DSE	REVISED -									
		DATE - 04/11/2019	REVISED -									



PAVEMENT MARKING LEGEND	
①	PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (DOUBLE SOLID YELLOW)
②	PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (SOLID YELLOW)
③	PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (SOLID WHITE)
④	PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (30' SKIP, 10' DASH YELLOW)
⑤	PR RAISED REFLECTIVE PAVEMENT MARKER (SEE DETAILS)
⑥	PR GROOVING FOR RECESSED PAVEMENT MARKING 5"

CENTERLINE NOTES:
 WESTBOUND C - SKIP-DASH YELLOW - STA 148+31.00 TO STA 155+21.67
 EASTBOUND C - SOLID YELLOW - STA 148+31.00 TO STA 155+21.67
 EB & WB C - DOUBLE SOLID YELLOW - STA 155+21.67 TO STA 165+00.00

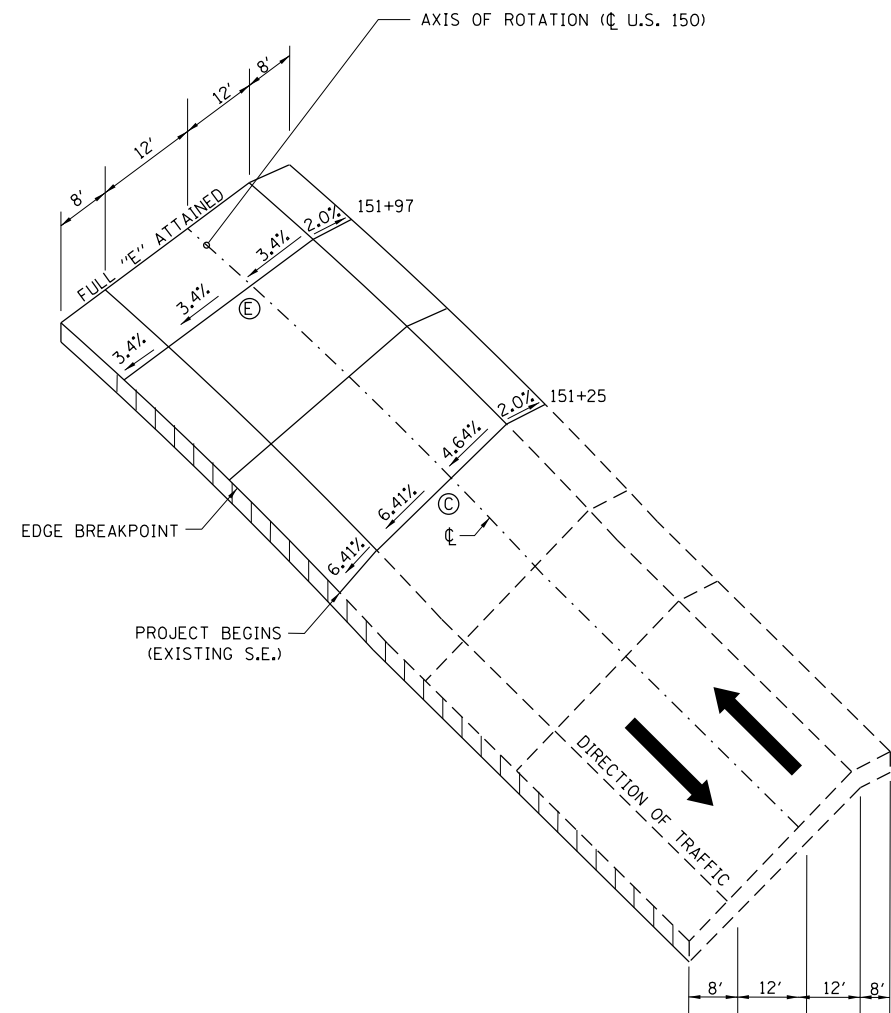
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	PLOT DATE = 5/6/2019 - 2:56:07 PM	CHECKED - BJE	REVISED -
		DATE - 04/16/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGN PLAN
U.S. 150 AND I-57**

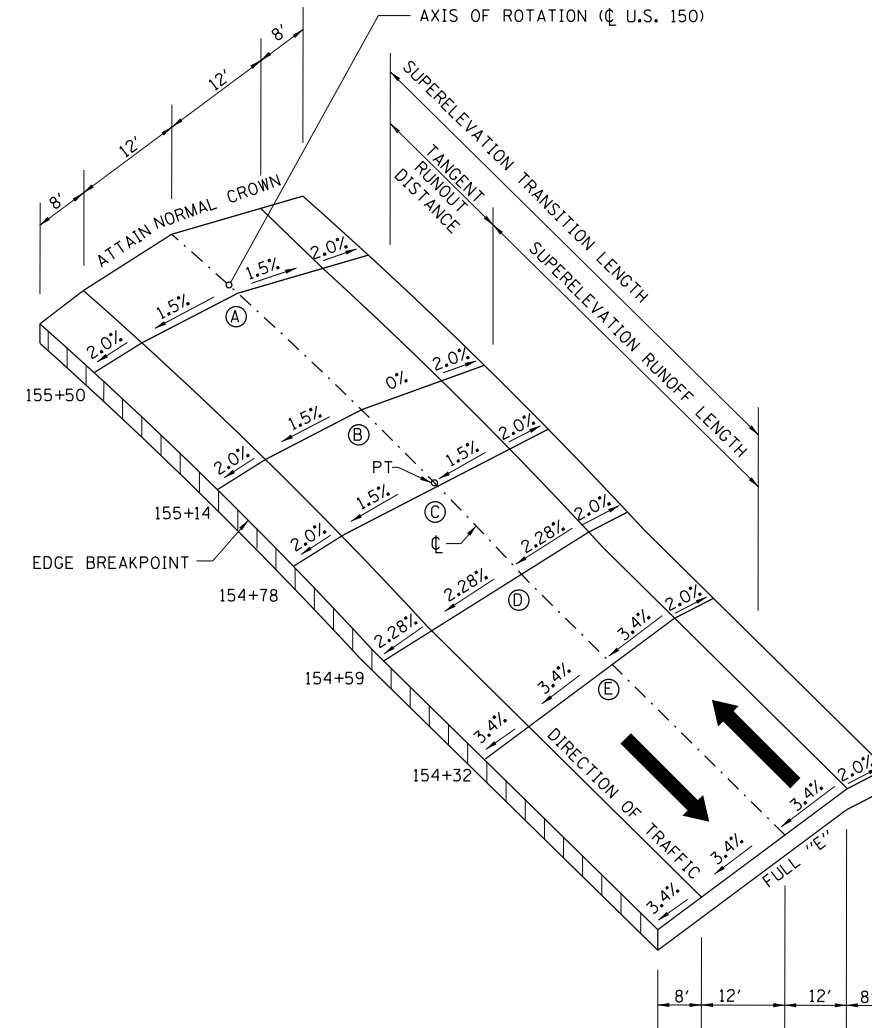
SCALE: 1" = 50' SHEET OF SHEETS STA. 149+00.00 TO STA. 165+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	109
			CONTRACT NO. 70B98	
ILLINOIS FED. AID PROJECT				



USE TO ATTAIN PROPOSED SUPERELEVATION FROM EXISTING SUPERELEVATION

E=DESIGN SUPERELEVATION RATE



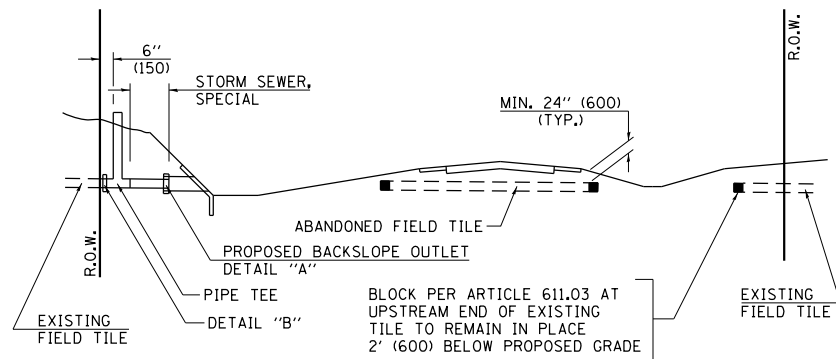
USE TO REMOVE SUPERELEVATION

PROPOSED SUPERELEVATION TRANSITION DETAIL FOR U.S. 150 (BLOOMINGTON RD.)

THE SUPERELEVATION TRANSITION HAS BEEN SHIFTED IN RESPECT TO THE PT STATION TO KEEP THE TRANSITION FROM REACHING THE BRIDGE DECK.

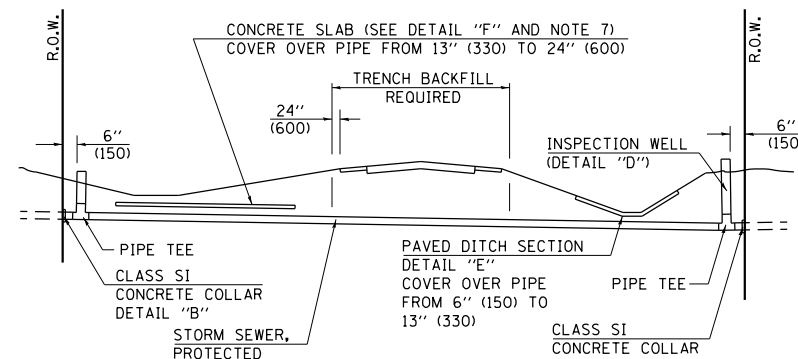
2 LANE SECTION						
CURVE NAME	FULL SUPER RATE "E"	STA. A	STA. B	STA. C	STA. D	STA. E
CURVE US150_6						
ATTAIN	3.40%			151+25		151+97
REMOVE	3.40%	155+50	155+14	154+78	154+59	154+32

NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD.



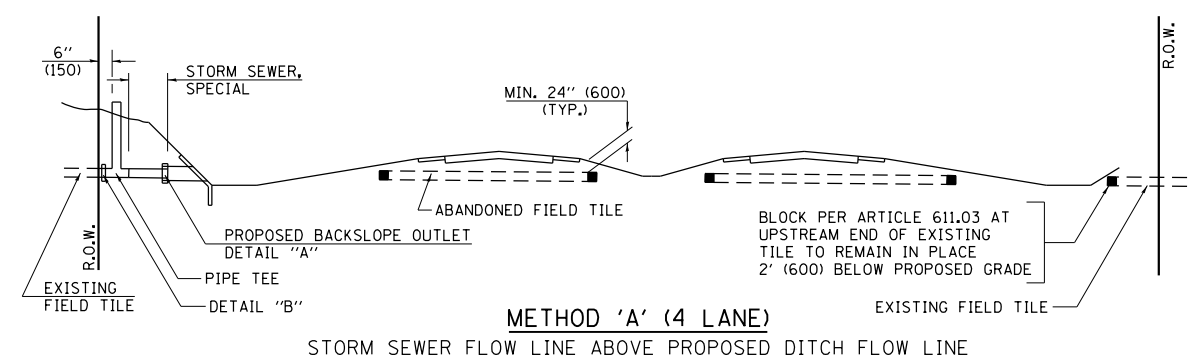
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



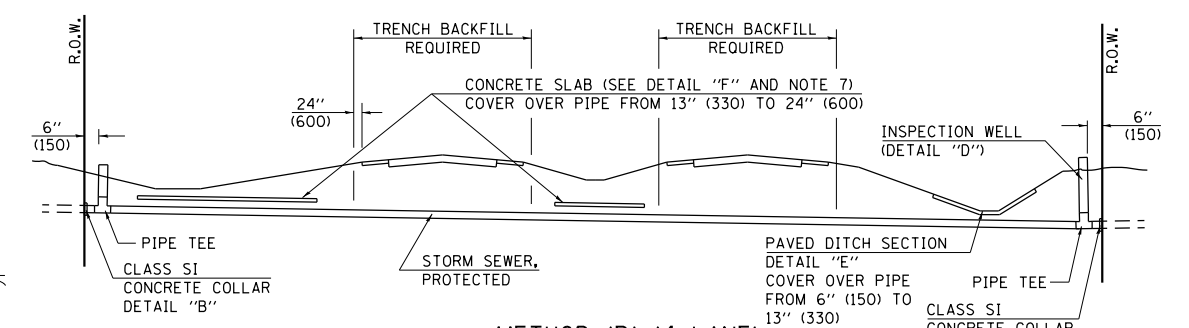
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



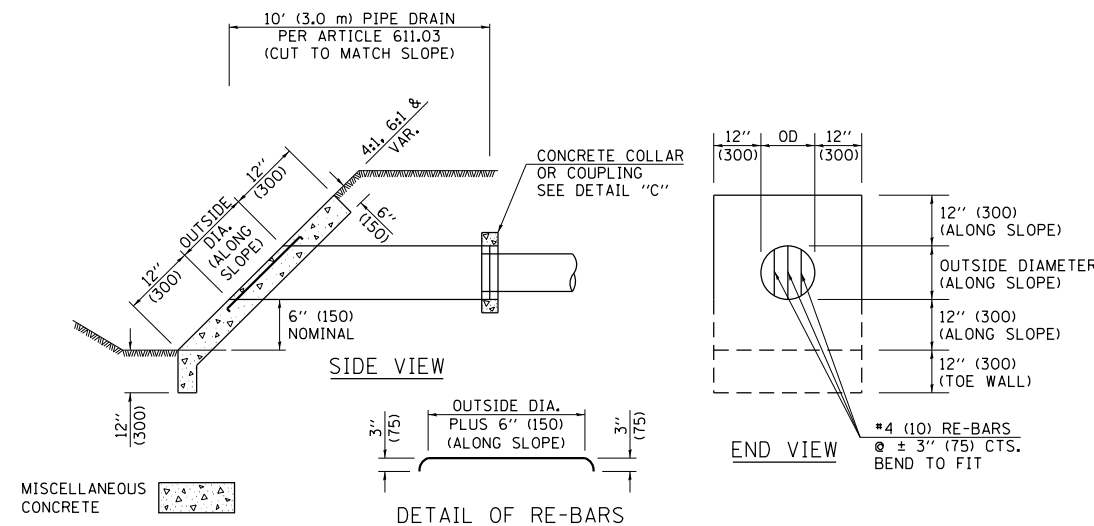
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

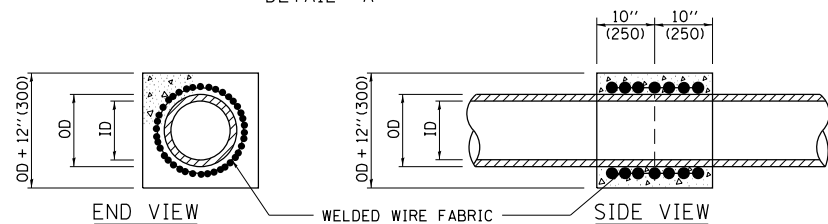


METHOD 'B' (4 LANE)

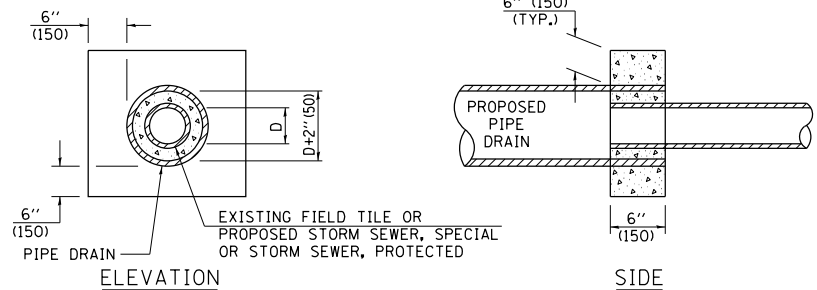
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



**HEADWALL FOR BACKSLOPE OUTLET
DETAIL 'A'**



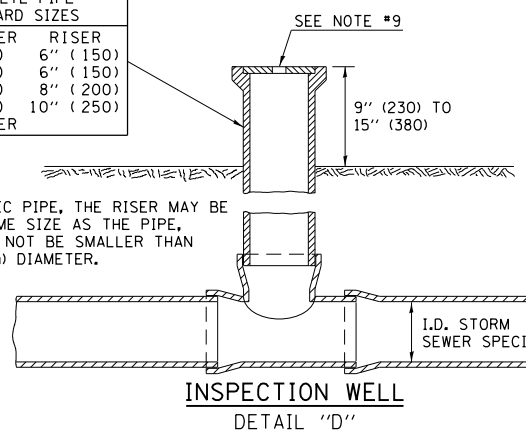
**CONCRETE COLLAR
DETAIL 'B'**



**CLASS SI COLLAR
DETAIL 'C'**

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

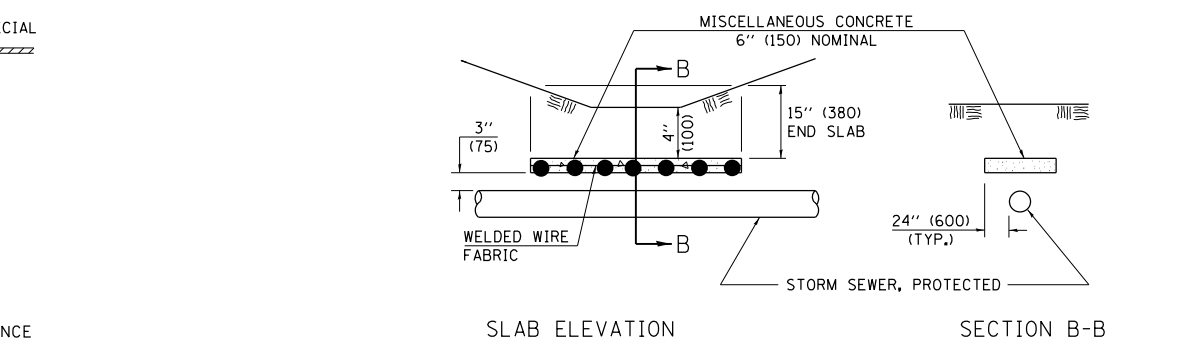
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL
DETAIL 'D'**

GENERAL NOTES

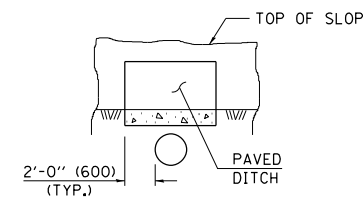
- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



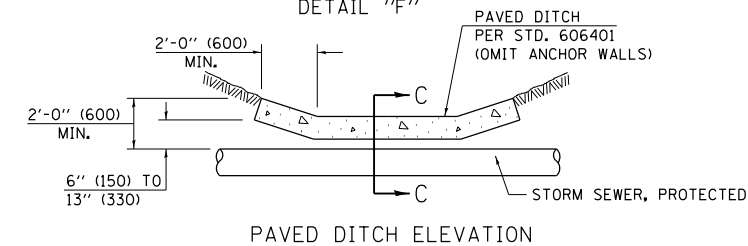
SLAB ELEVATION

**CONCRETE SLAB
DETAIL 'F'**

SECTION B-B



**SECTION C-C
PAVED DITCH
DETAIL 'E'**



PAVED DITCH ELEVATION

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 61101011A

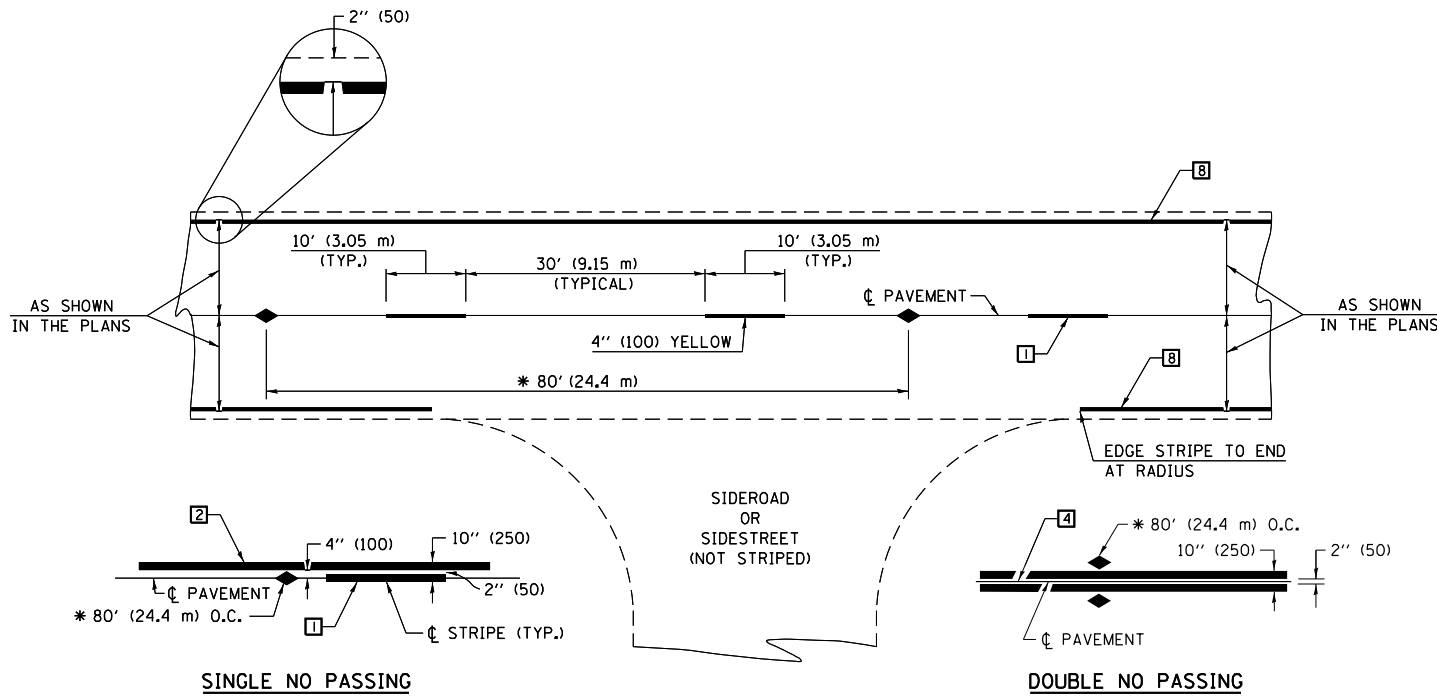
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		DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	111
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 70B98	



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

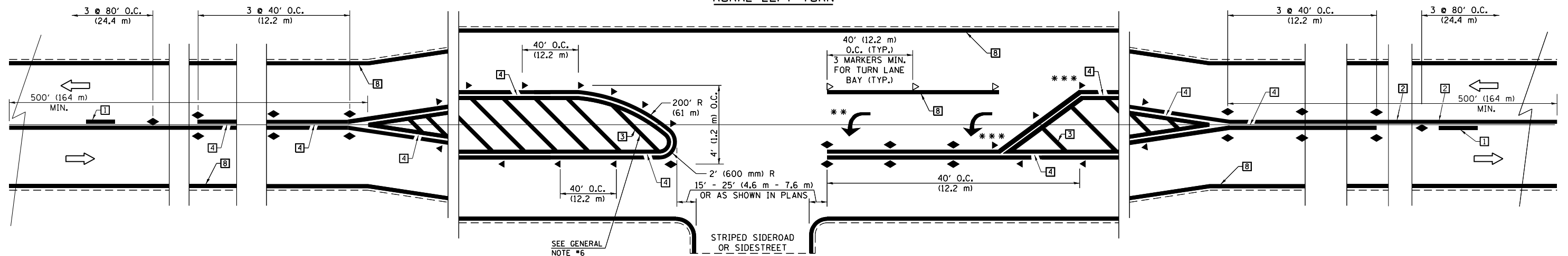
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 RESERVED
 - 6 RESERVED
 - 7 4" (100) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) LANE LINE EXTENSIONS (WHITE)
 - 14 4" (100) PARKING WHITE
-

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

FILE NAME = D570B98-sht-details.dgn

USER NAME = bemory
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 PLOT DATE = 5/6/2019 - 2:56:30 PM

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

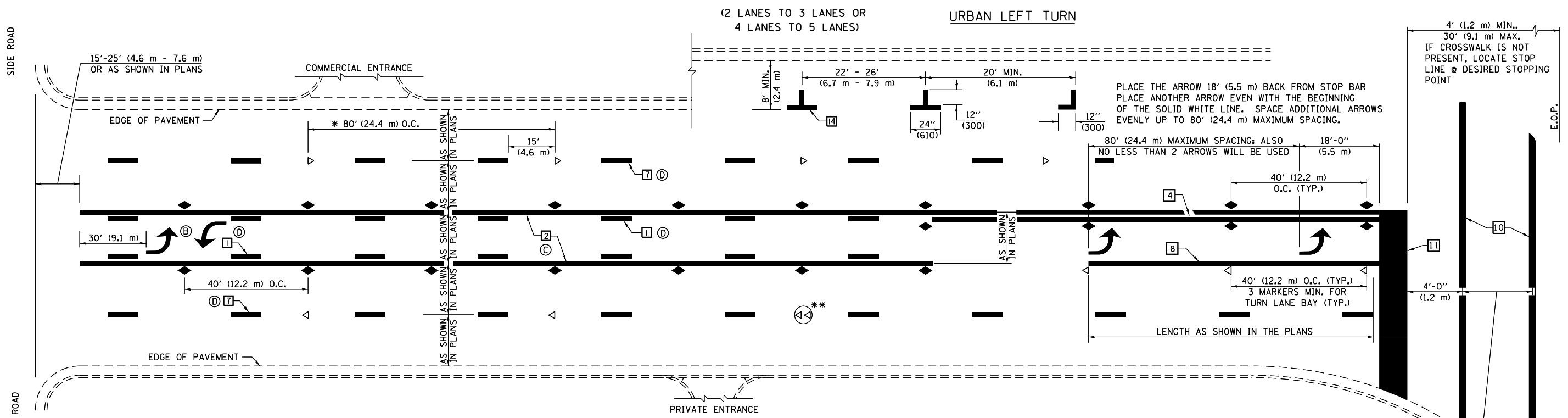
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET NO. 1 OF 4 SHEETS STA. TO STA.

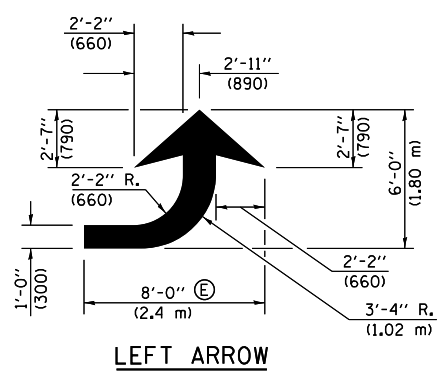
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	112
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B98	



* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

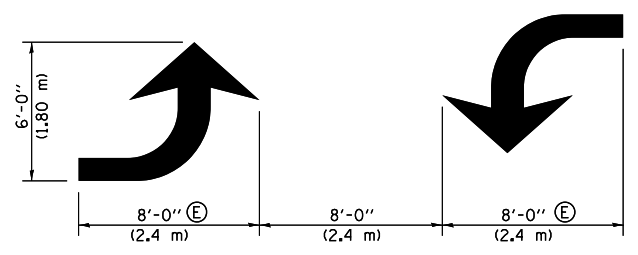
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

- GENERAL NOTES:**
- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
 - ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
 - ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
 - ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



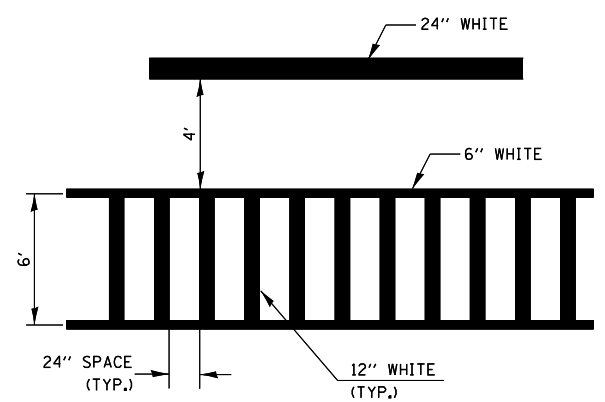
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

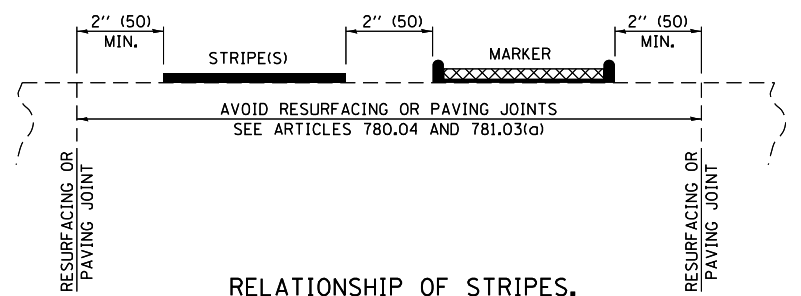


TYPICAL DOUBLE TURN ARROWS (WHITE)

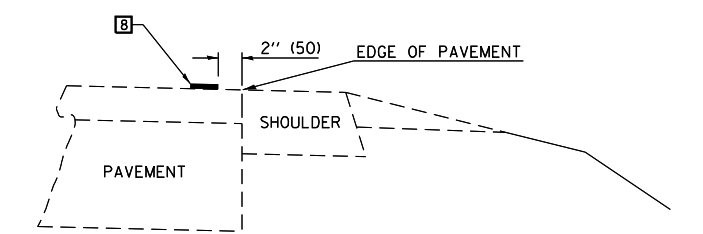
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

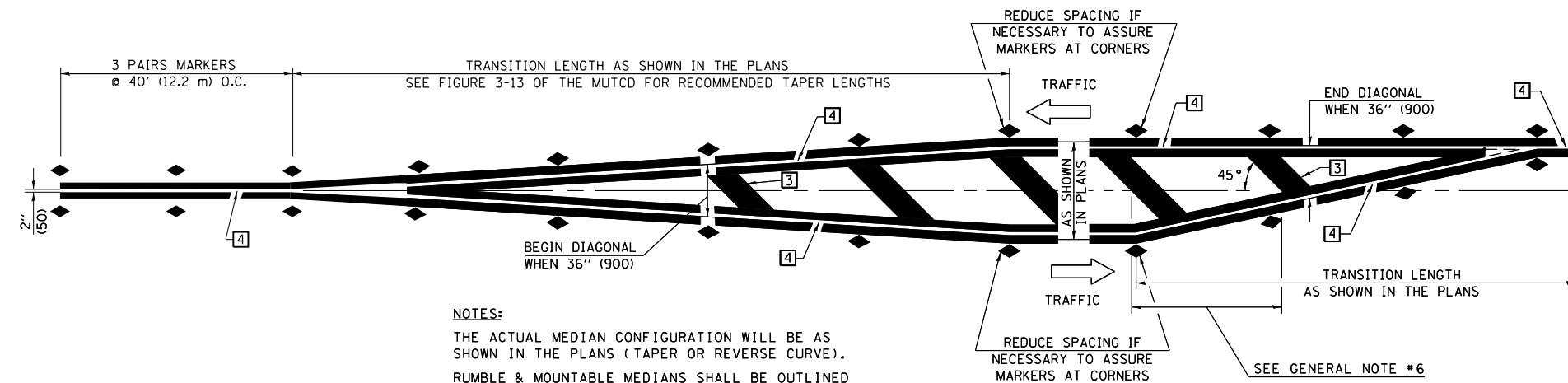


RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

FILE NAME = D570898-sht-detail.dgn	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)			F.A.I. RTE. = 57	SECTION = (10-34H)BR-1	COUNTY = CHAMPAIGN	TOTAL SHEETS = 147	SHEET NO. = 113	
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -					SCALE: N.T.S.	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 70B98
	PLOT DATE = 5/6/2019 - 2:56:30 PM	DATE -	REVISED -										

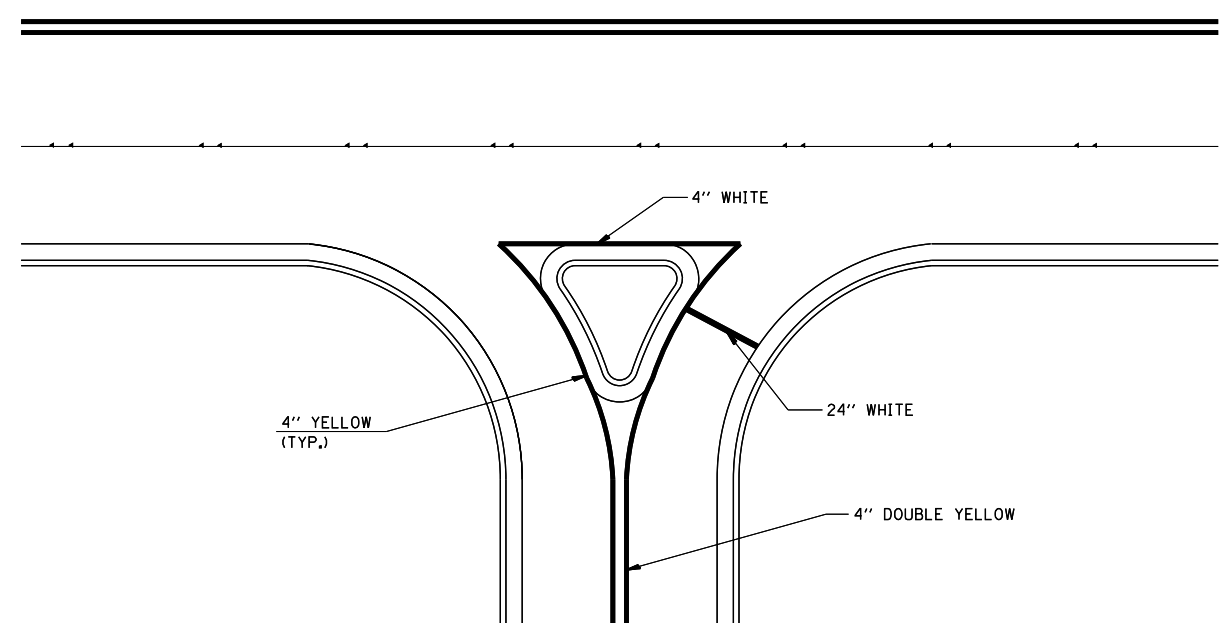


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

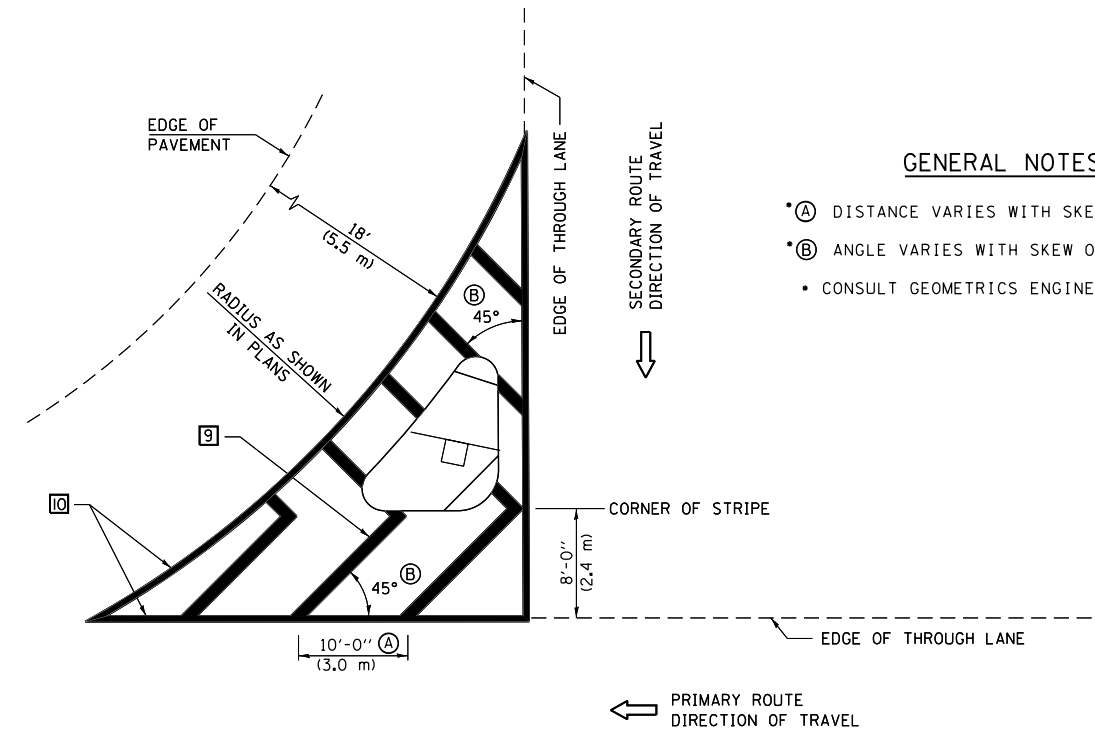
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

ISLAND

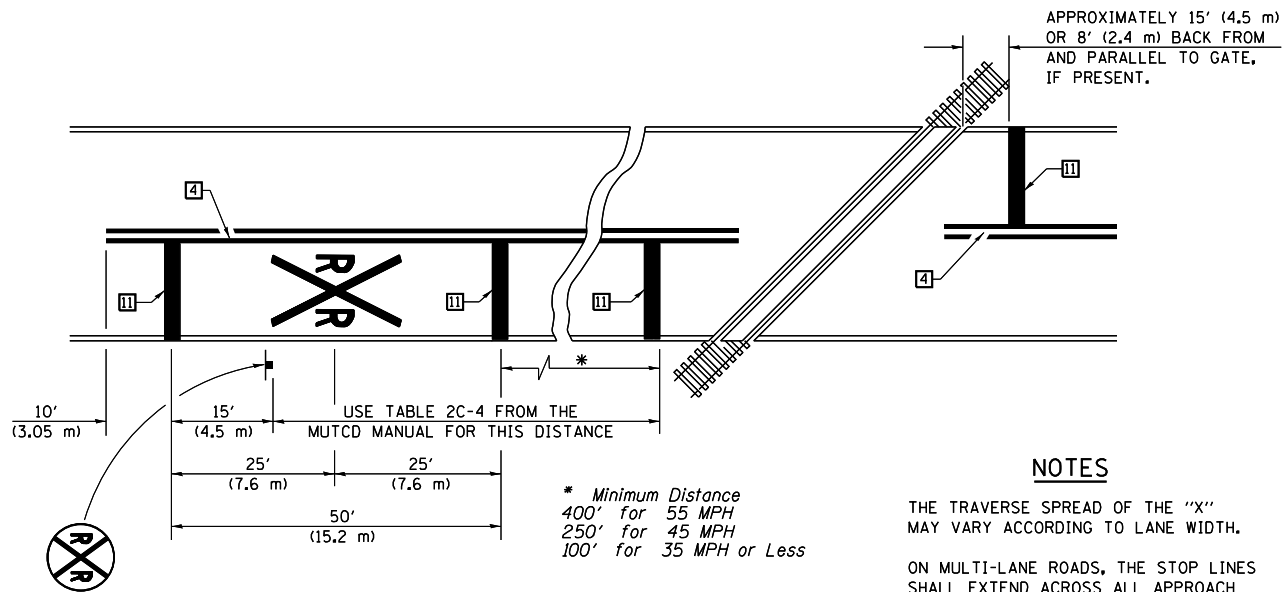
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

FILE NAME = D570898-sht-detail.dgn	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)		F.A.I. RTE. = 57	SECTION = (10-34H)BR-1	COUNTY = CHAMPAIGN	TOTAL SHEETS = 147	SHEET NO. = 114
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -				SCALE: N.T.S.	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 70B98	
PLOT DATE = 5/6/2019 - 2:56:30 PM	DATE -	REVISED -	REVISED -								

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



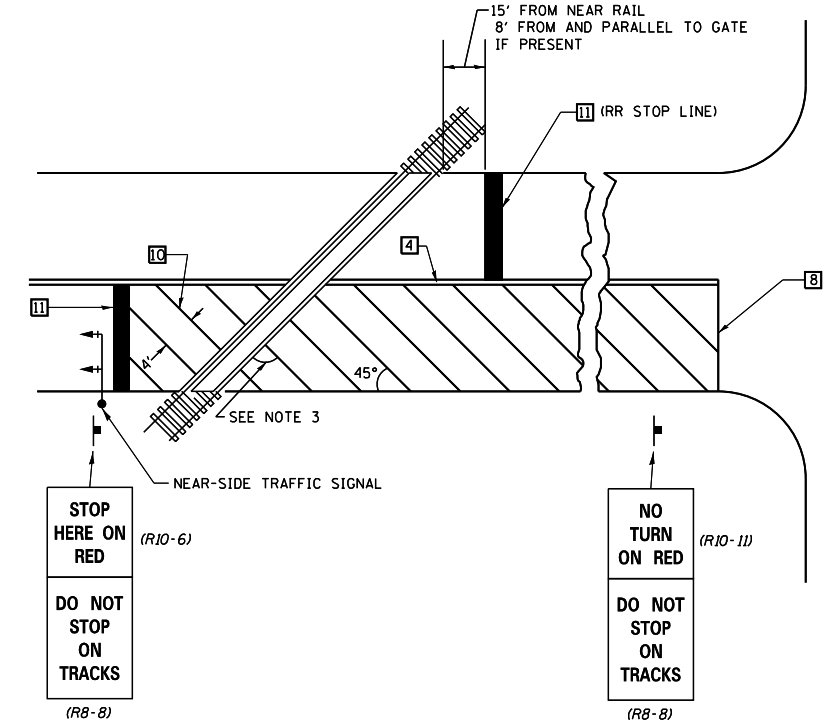
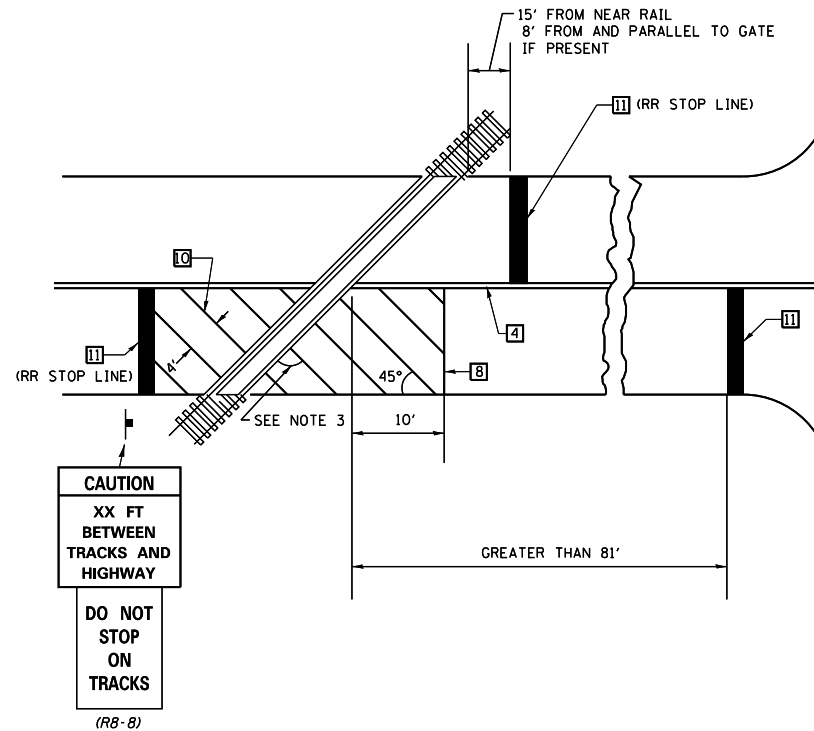
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

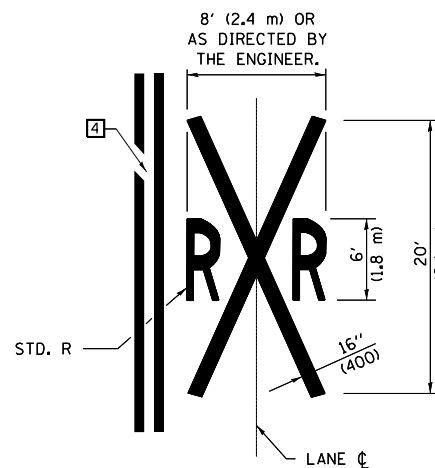
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

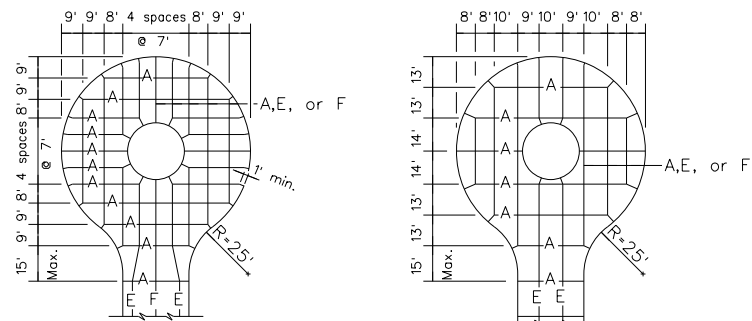
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

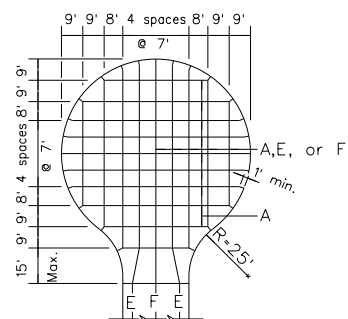
SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	115
CONTRACT NO. 70B98				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

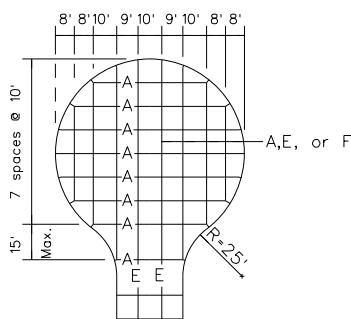


Open Center Cul De Sac
(4-panel wide street)

Open Center Cul De Sac
(3-panel wide street)

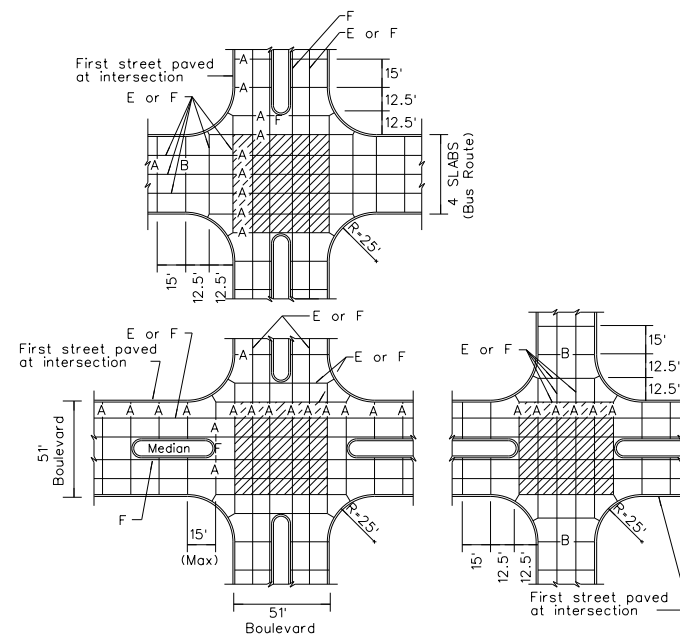


Fully-Paved Cul De Sac
(4-panel wide street)



Fully-Paved Cul De Sac
(3-panel wide street)

-See General Note 5.



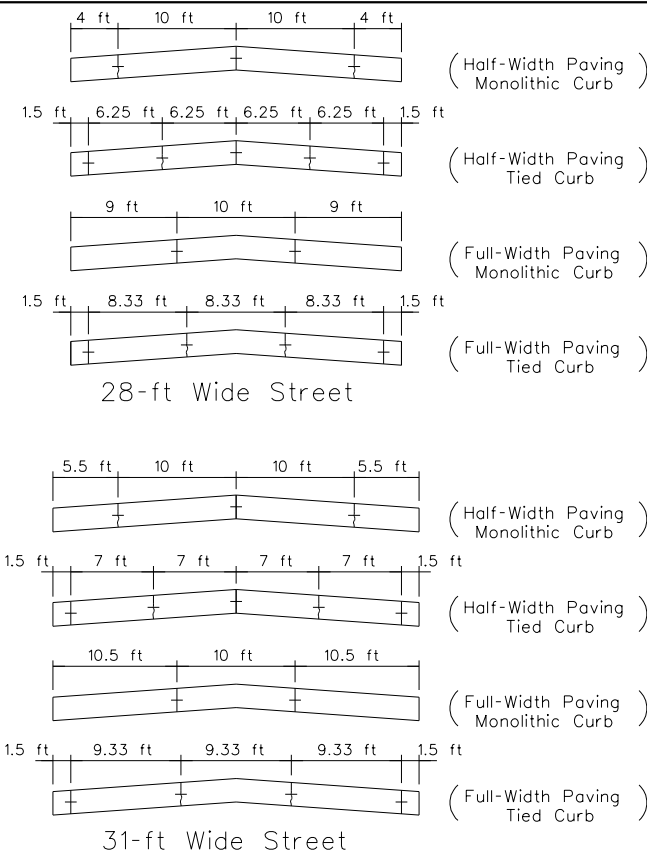
Boulevard Street Detail

PCC Pavement Details
and Joint Layout.

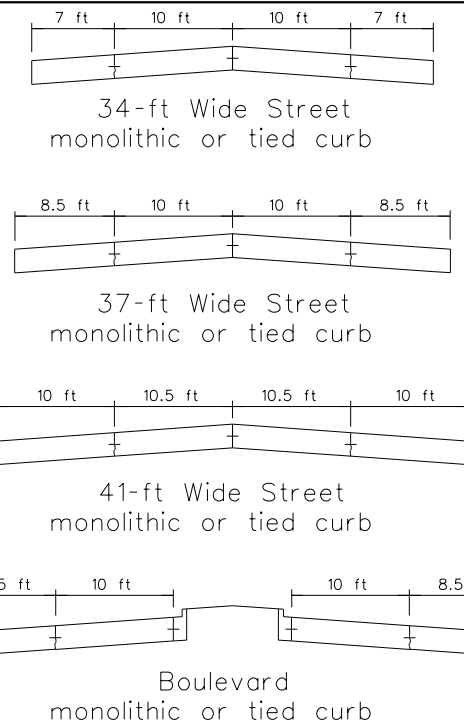
City of Champaign-Subdivision Streets



Sheet
2 of 6



Note: 1. Shown dimensions represent back-of-curb to back-of-curb pavement widths.

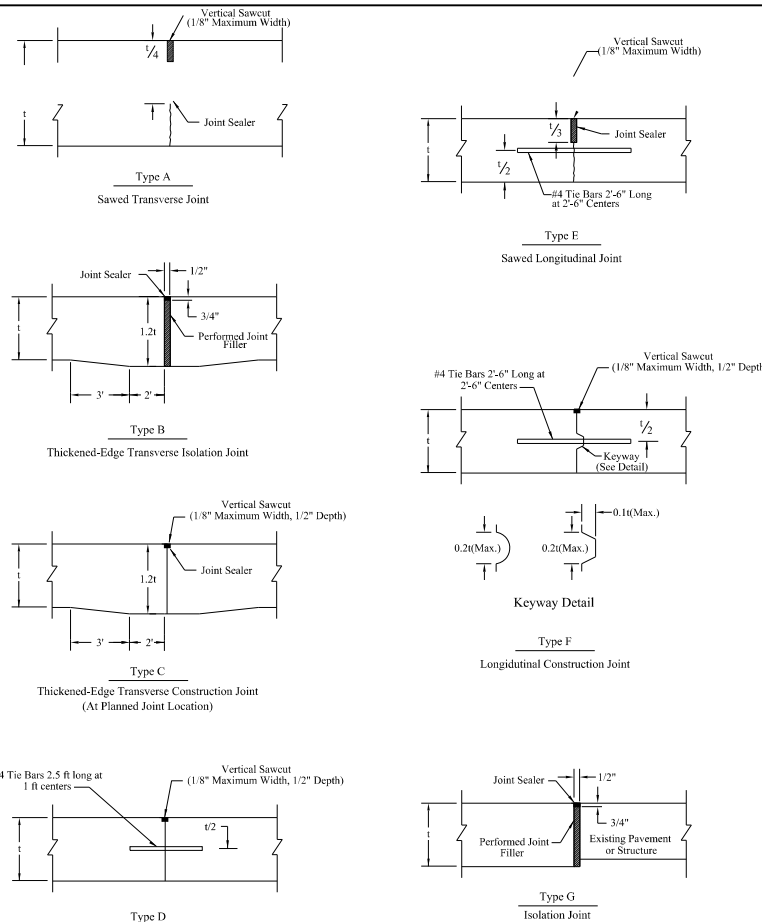


Longitudinal Joint Spacing

City of Champaign-Subdivision Streets

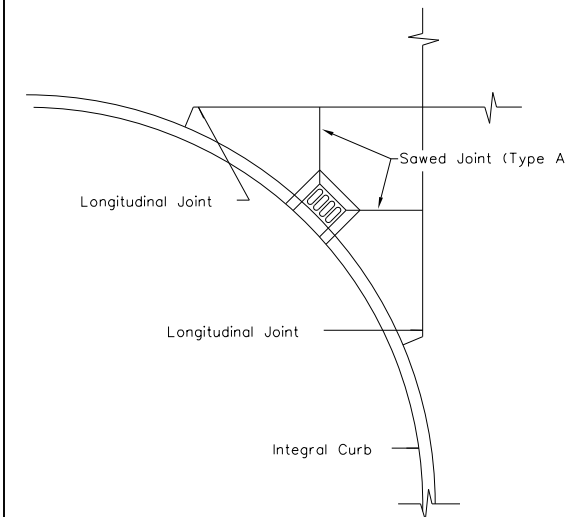


Sheet
4 Of 6

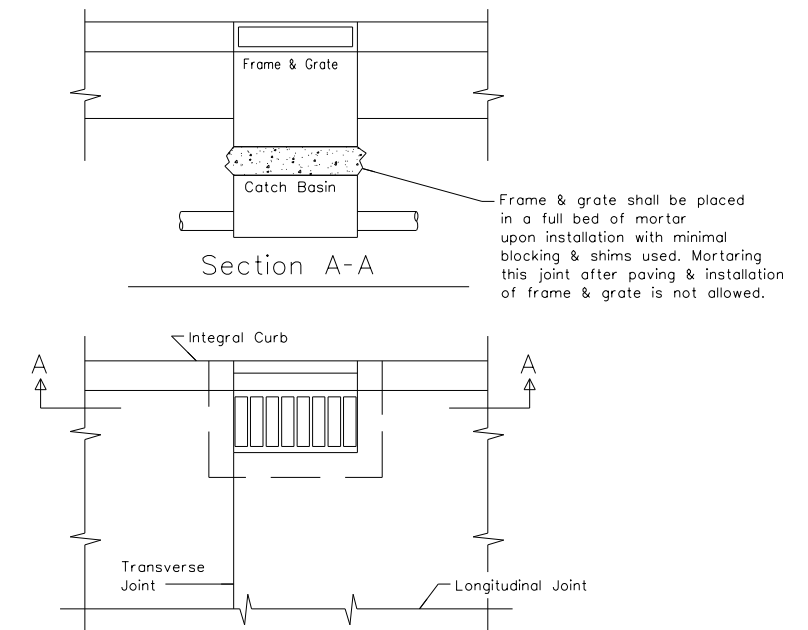


General Notes

1. Pavement slabs with manhole castings within the pavement limits shall be jointed as shown in the details.
2. All transverse joints must be continuous across the pavement and extend through curbs, except tied transverse construction joints.
3. Transverse joint spacing shall not exceed 15 feet.
4. All joints must be sealed with joint sealer meeting the requirements of Section 750 of the Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction."
5. The pavement thickness at the intersection of four-legged intersections shall be increased by 1 inch over that of the thickest adjacent pavement structure.



Detail of Catch Basin Located
Along An Intersection Return Radius



Detail of Catch Basin Located
At A Transverse Joint

1. When a transverse joint falls short of a catch basin, shorten one or more slabs either side of the catch basin to permit a transverse joint to fall at one of the catch basin corners.
2. Longitudinal slab length shall not be less than 6 feet.

File: CB1.dwg

PCC Pavement Details
and Joint Layout.

City of Champaign-Subdivision Streets



Sheet
3 of 6

FILE NAME =
D570B9B-sht-details.dgn
Default

USER NAME = bemory
DESIGNED -
DRAWN -
PLOT SCALE = 48.0000' / in.
PLOT DATE = 5/6/2019 - 2:56:31 PM

REVISD -
REVISD -
REVISD -
REVISD -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHAMPAIGN
DETAILS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

PCC Pavement Details
and Joint Layout

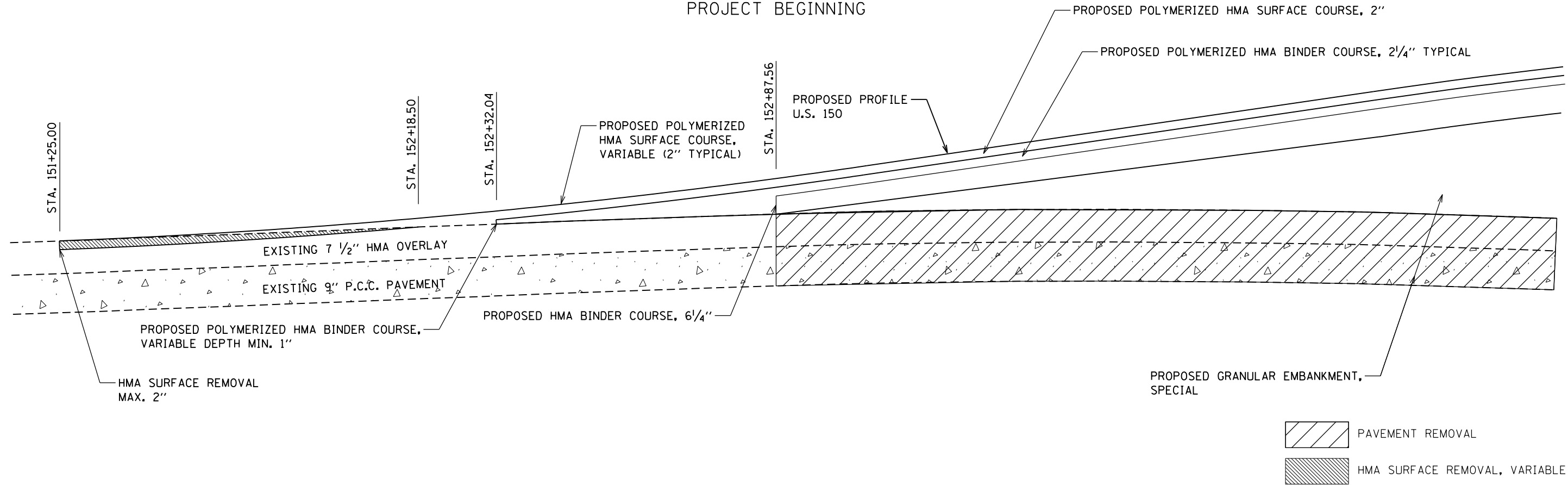
City of Champaign-Subdivision Streets



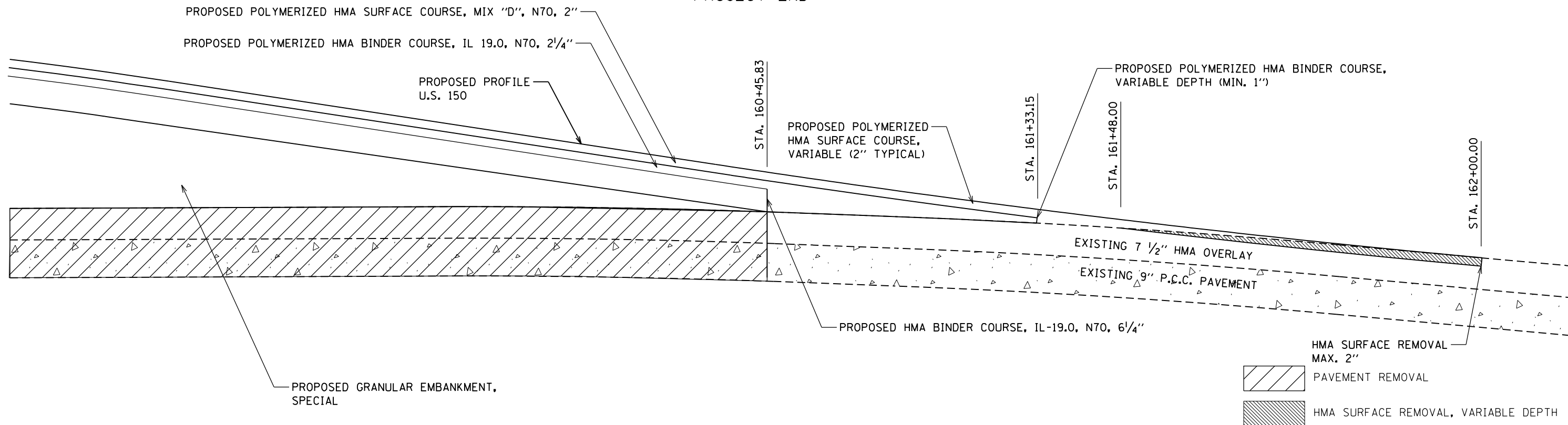
Sheet
6 of 6

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	116
CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	

PAVEMENT PROFILE TRANSITION
PROJECT BEGINNING



PAVEMENT PROFILE TRANSITION
PROJECT END



FILE NAME = D570B98-sht-details.dgn	USER NAME = bemy	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
		CHECKED - BJE	REVISED -
		DATE - 04/16/2019	REVISED -

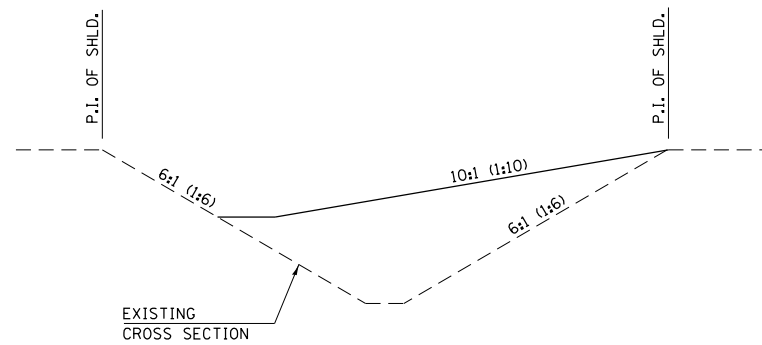
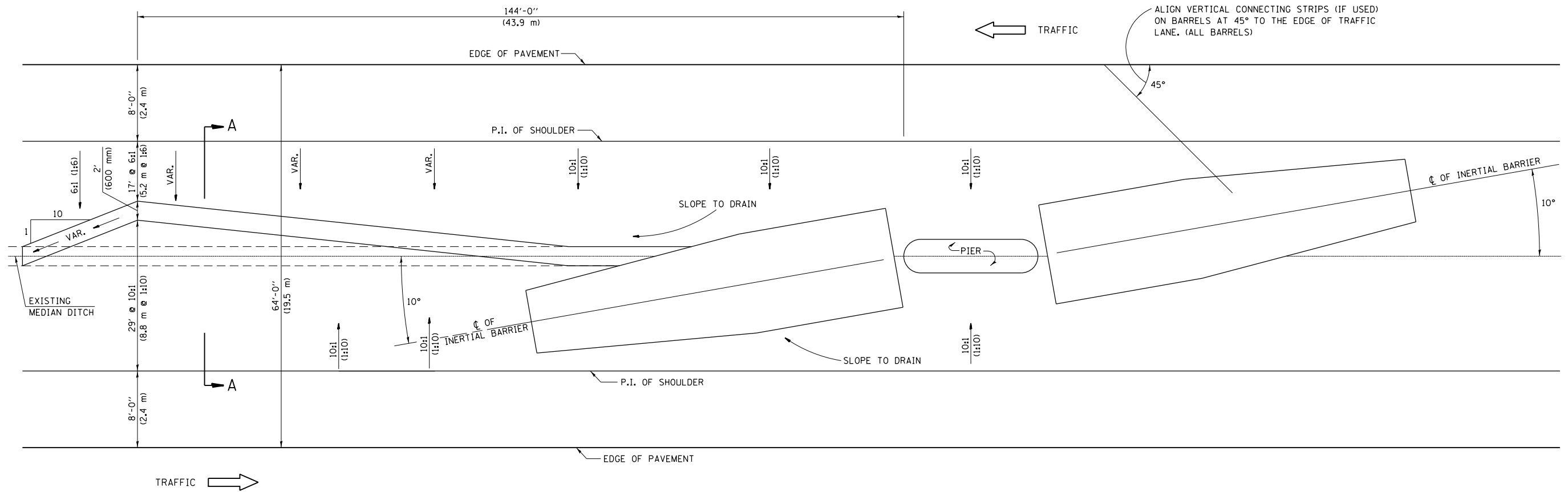
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PROFILE TRANSITIONS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	117
CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	

DESIGN SPEED GREATER THAN 45 MPH (70 km/h) - 64' (19.5 m) MEDIAN



GENERAL NOTES

1. ALL 10:1 (1:10) SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 (1:10) OR FLATTER.
2. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
3. IN AREAS OF 10:1 (1:10) SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR OR MORE WOOD POSTS SHALL BE PLACED AT 5' (1.5 m) INTERVALS IN THE MEDIAN ϕ . SEE SPECIAL PROVISIONS AND SCHEDULES.
4. SEE STANDARD 643001 FOR BASE DIMENSIONS AND SAND MODULE IMPACT ATTENUATOR ARRAY.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. Z0030150C

FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED - 12/08
... \0570B98-sht-details.dgn		DRAWN -	REVISED - 05/11
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 07/16 JWS
	PLOT DATE = 5/6/2019 - 2:56:32 PM	DATE -	REVISED - 3/7/17 SWN

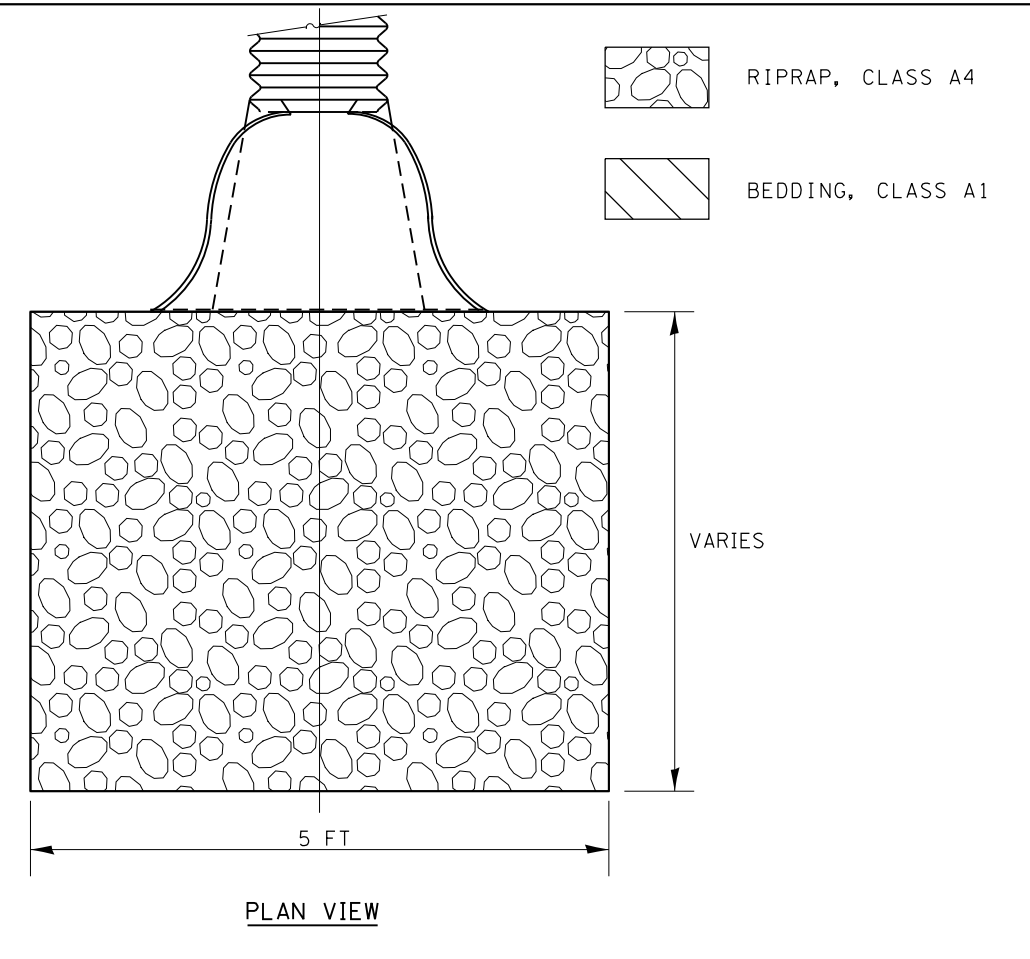
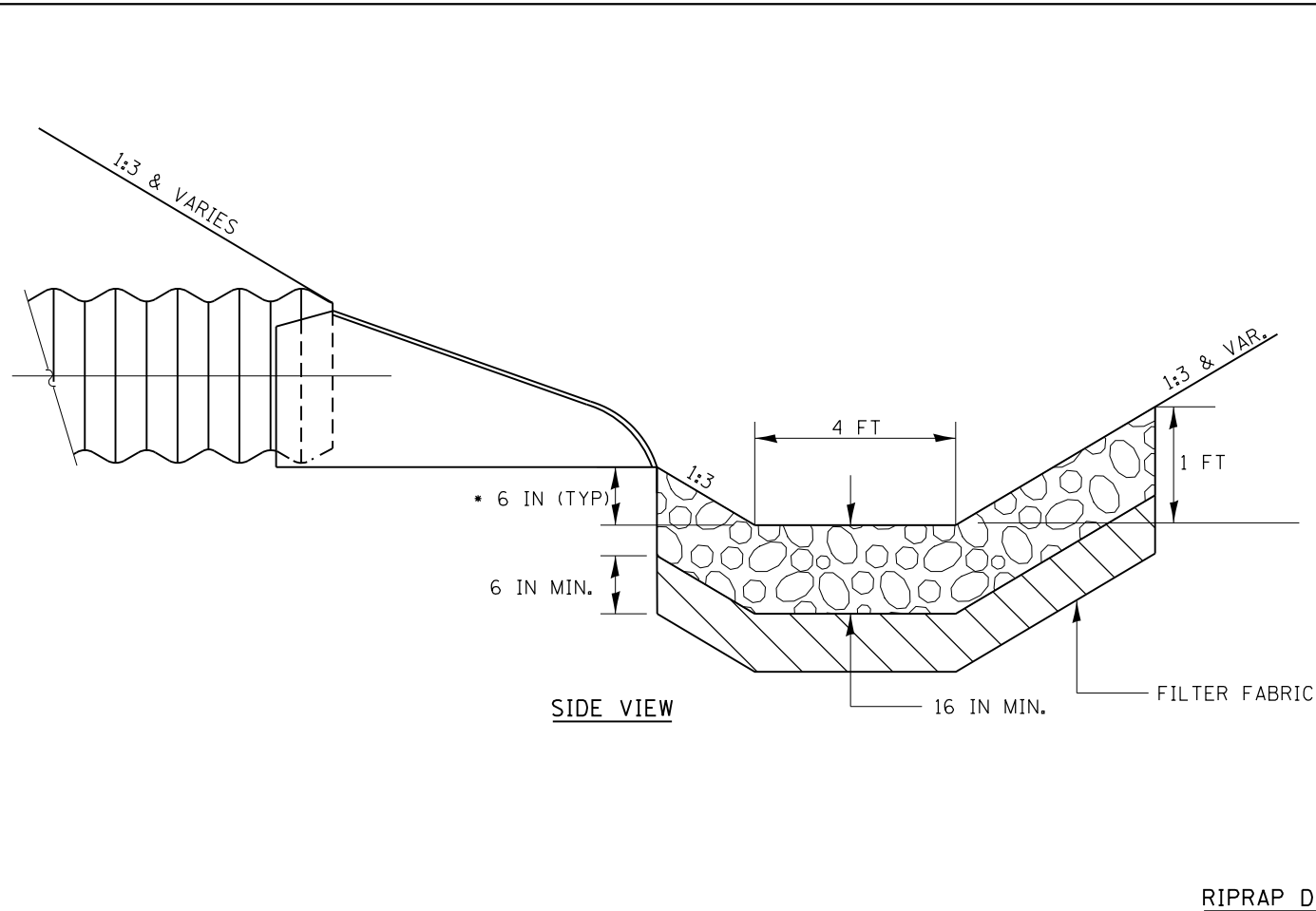
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

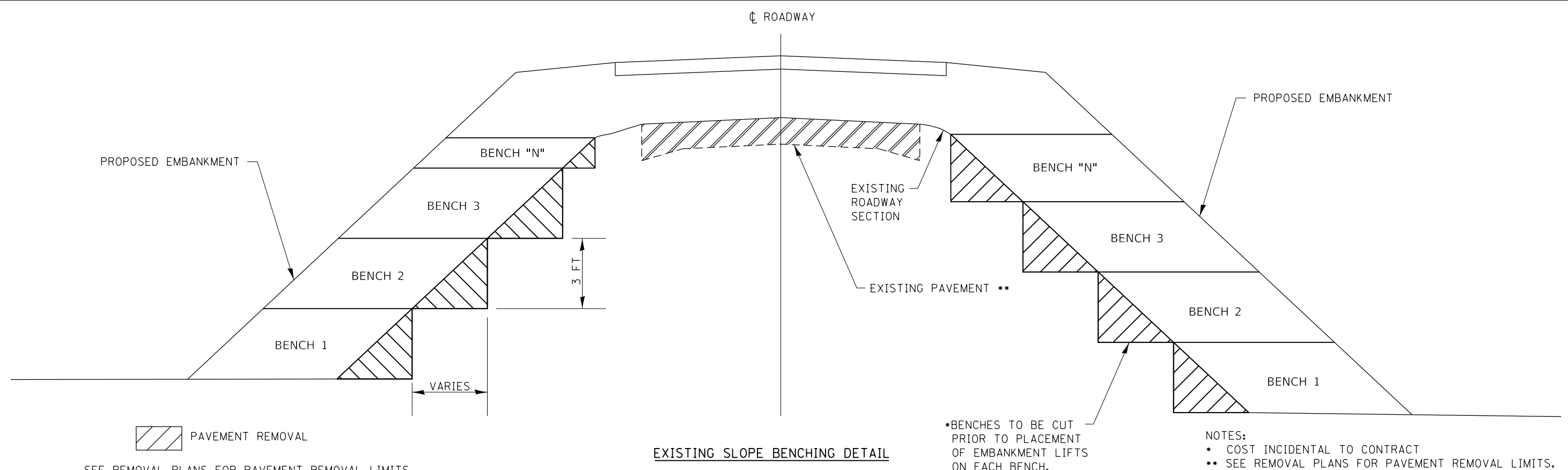
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	118
CONTRACT NO. 70B98				
ILLINOIS FED. AID PROJECT				

DESIGNER NOTE: SEE BDE PROCEDURE MEMORANDUM 34-06



RIPRAP DETAIL

* SEE CROSS SECTIONS FOR EXACT ELEVATIONS.

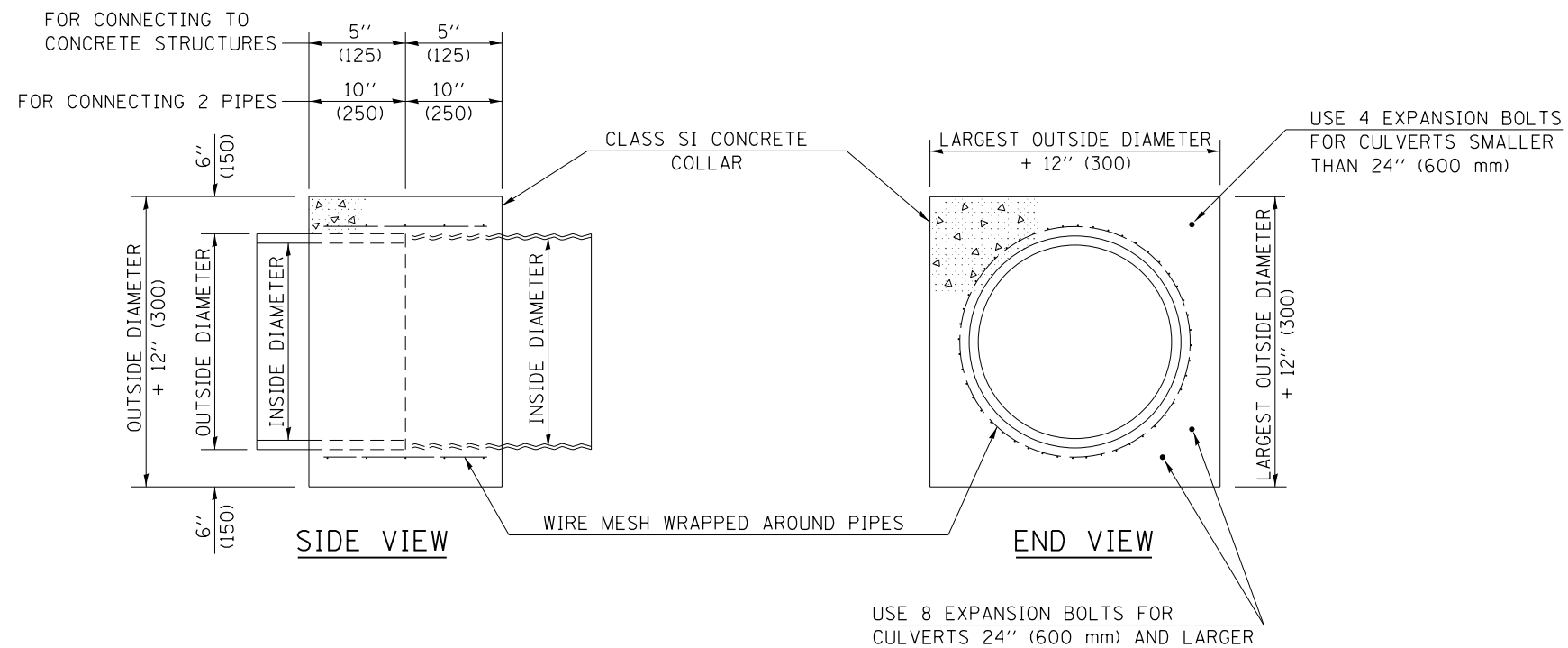


EXISTING SLOPE BENCHING DETAIL

*BENCHES TO BE CUT PRIOR TO PLACEMENT OF EMBANKMENT LIFTS ON EACH BENCH.

NOTES:
 * COST INCIDENTAL TO CONTRACT
 ** SEE REMOVAL PLANS FOR PAVEMENT REMOVAL LIMITS.

FILE NAME = D570B98-sht-details.dgn	USER NAME = bemory	DESIGNED - BJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE BENCHING AND RIPRAP DETAIL				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 40.0000' / in.	DRAWN - BJE	REVISED -		57	(10-34HB)BR-1	CHAMPAIGN	147	119				
	PLOT DATE = 5/6/2019 - 2:56:32 PM	CHECKED - CWW	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	
		DATE - 04/16/2019	REVISED -		CONTRACT NO. 70B98								



GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m²).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

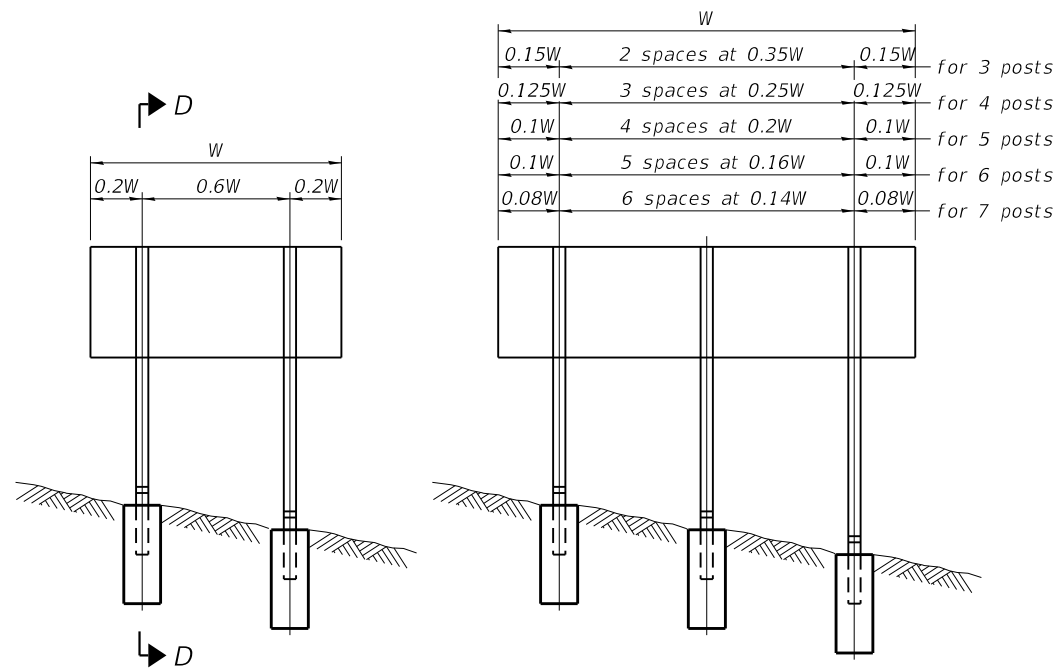
QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

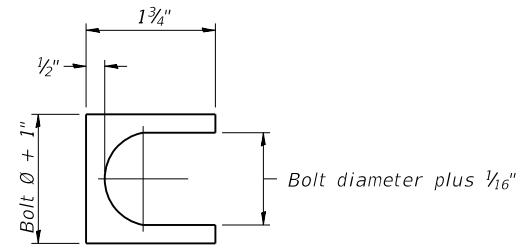
DISTRICT 5 DETAIL NO. 54248510

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		DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	57	(10-34HB)BR-1	CHAMPAIGN	147	120
		CHECKED -	REVISED -						CONTRACT NO. 70B98							
		DATE -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



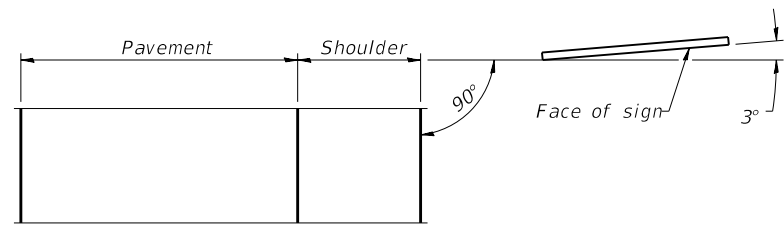
ELEVATION

0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

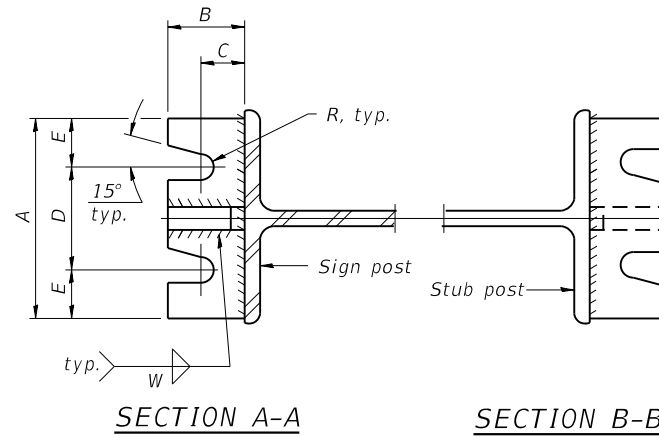


SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.



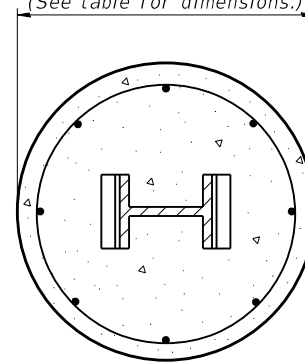
LOCATION SKETCH



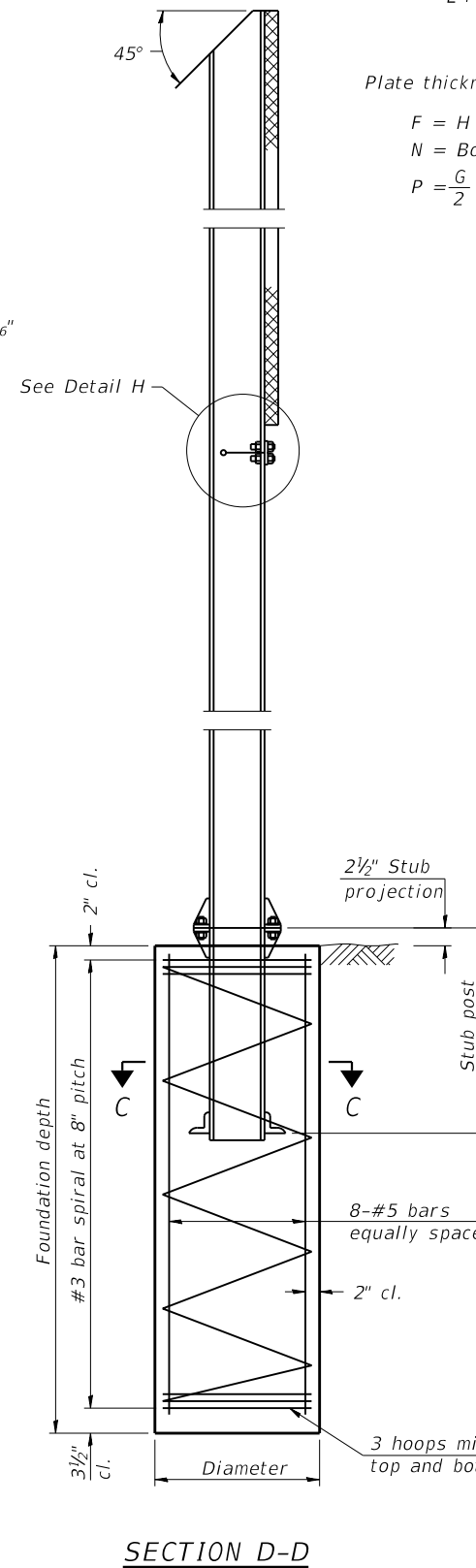
SECTION A-A

SECTION B-B

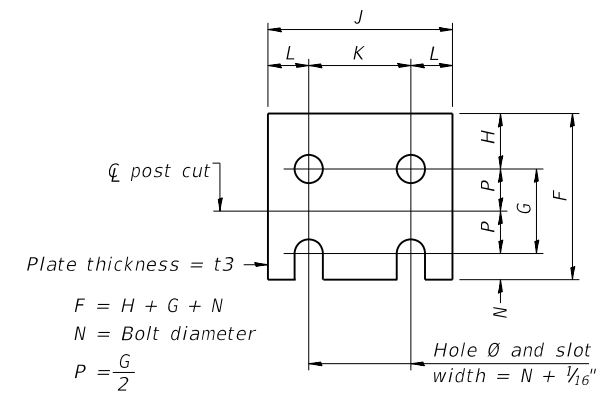
(See table for dimensions.)



SECTION C-C

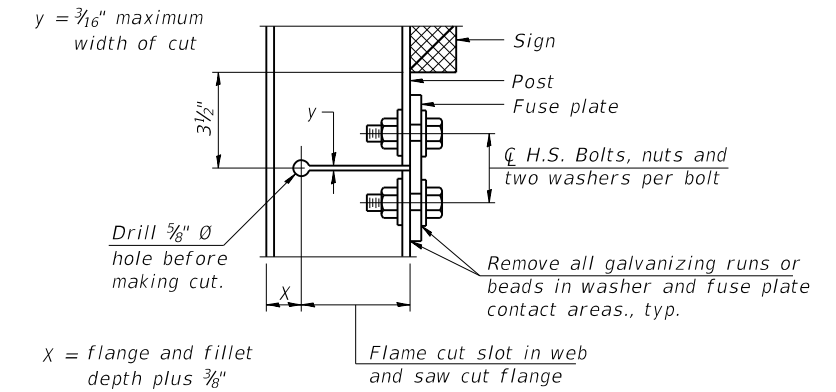


SECTION D-D

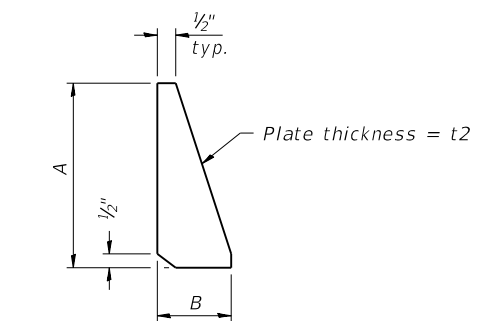


FUSE PLATE DETAIL
(Install with notches down.)

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE DETAIL
Diameter

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

2-17-2017

(Sheet 1 of 2)

FILE NAME = D570898-sht-Details-Signs.dgn	USER NAME = bemory	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 2.0000' / in.			
PLOT DATE = 5/6/2019 - 2:56:55 PM			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS

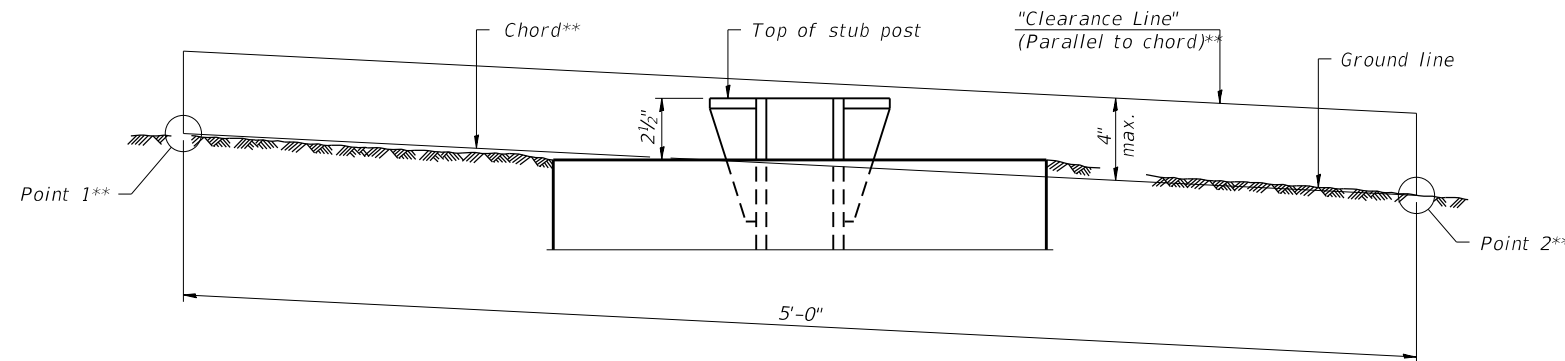
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34H)BR-1	CHAMPAIGN	147	121
CONTRACT NO. 70B98				
ILLINOIS FED. AID PROJECT				

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA						
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t1	t2	R	W	J	K	L	t3	
	Diameter*	Minimum Depth	Concrete ^① (cu. yds.)	Vertical Bars Length	Bar Diameter	Spirals Length																lbs. ^②
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 7/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 7/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	—
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	—
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

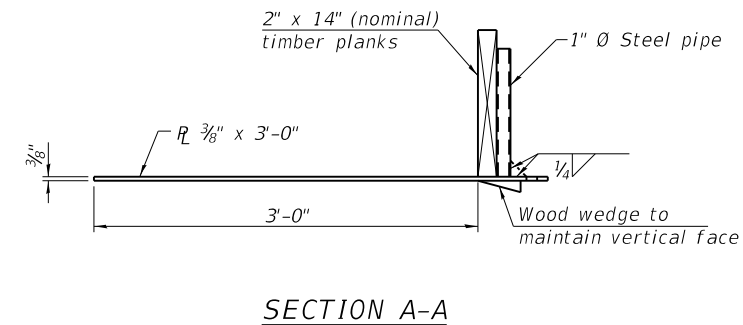
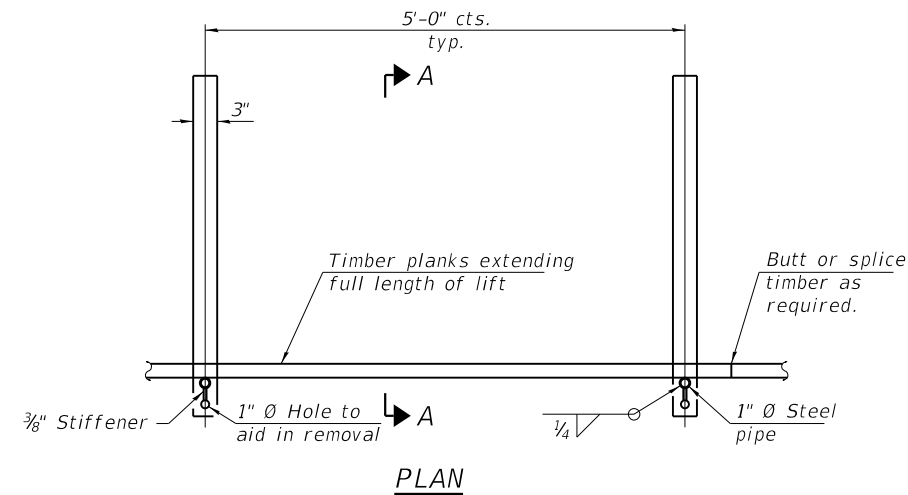
- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

2-17-2017

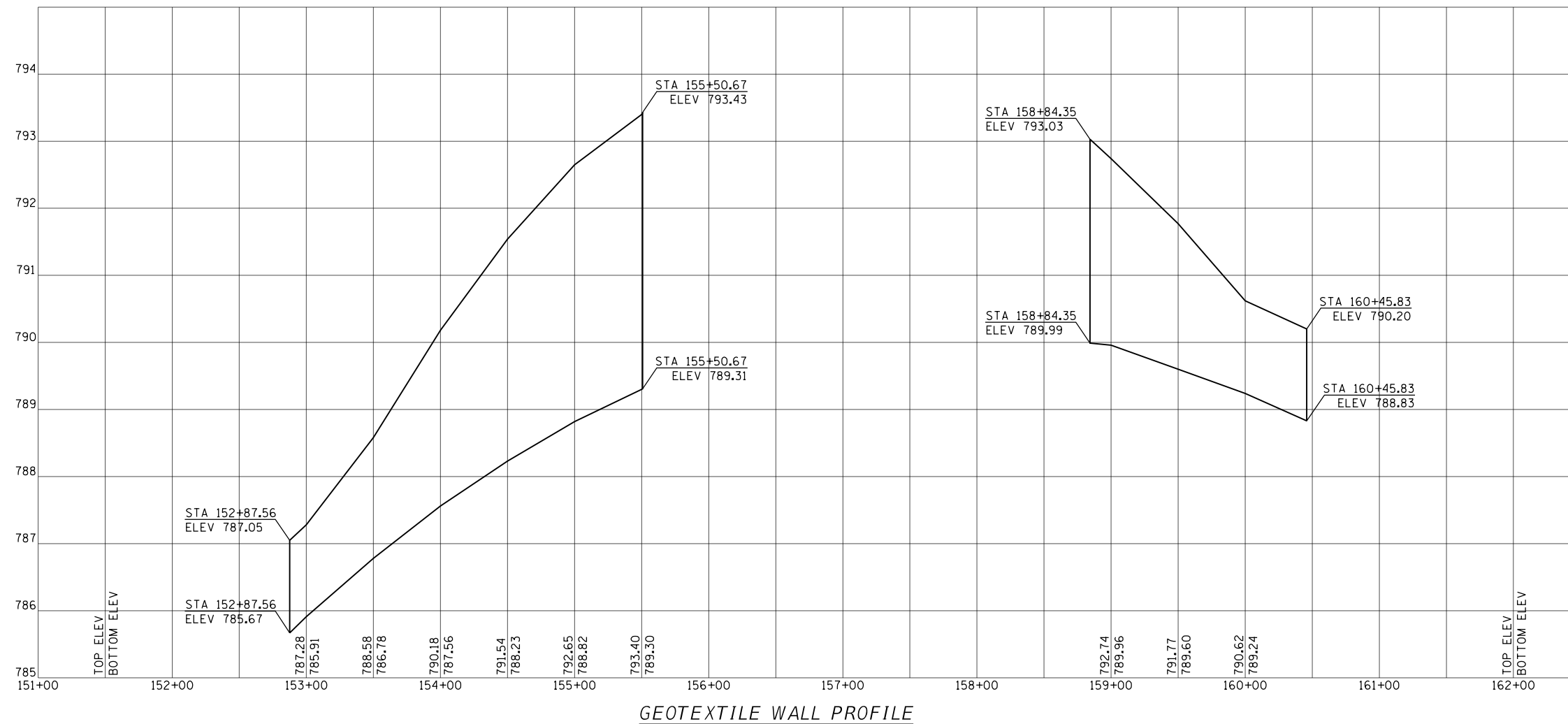
(Sheet 2 of 2)

FILE NAME = D570898-sht-Details-Signs.dgn	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A.I. RTE. = 57	SECTION = (10-34HB)BR-1	COUNTY = CHAMPAIGN	TOTAL SHEETS = 147	SHEET NO. = 122		
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -	SCALE: N.T.S.			SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 70B98				
Default	PLOT DATE = 5/6/2019 - 2:56:55 PM	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						



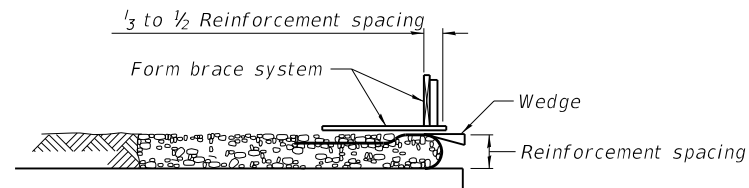
**GEOTEXTILE
FORM BRACE DETAIL**

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

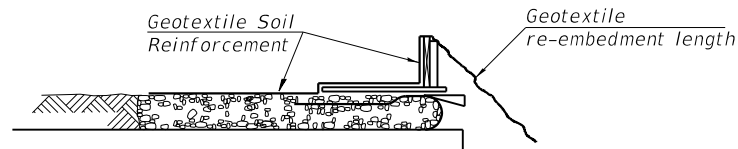


GEOTEXTILE WALL PROFILE

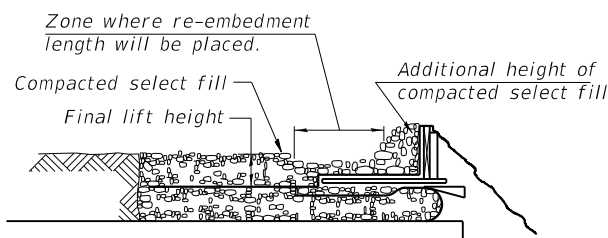
FILE NAME = D570898-sht-Details-Wall.dgn	USER NAME = bemory	DESIGNED - BJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOTEXTILE RETAINING WALL DETAILS				F.A.I. RE. = 57	SECTION = (10-34HB)BR-1	COUNTY = CHAMPAIGN	TOTAL SHEETS = 147	SHEET NO. = 123
	PLOT SCALE = 2.0000' / in.	CHECKED - MKK	REVISED -						SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 70B98	
Default	PLOT DATE = 5/6/2019 - 2:57:17 PM	DATE - 04/16/2019	REVISED -	ILLINOIS FED. AID PROJECT									



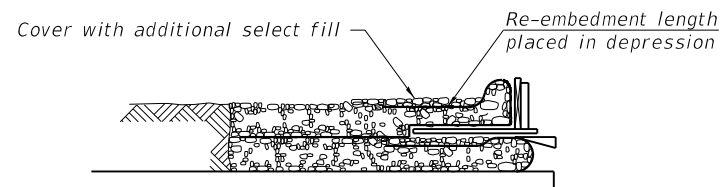
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.



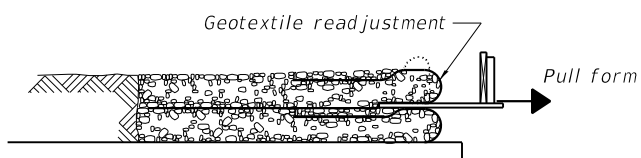
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



3. Compact select fill material in lifts to final lift height, create ($\pm 3"$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.



4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3"$) to embed geotextile and bring to final lift height.



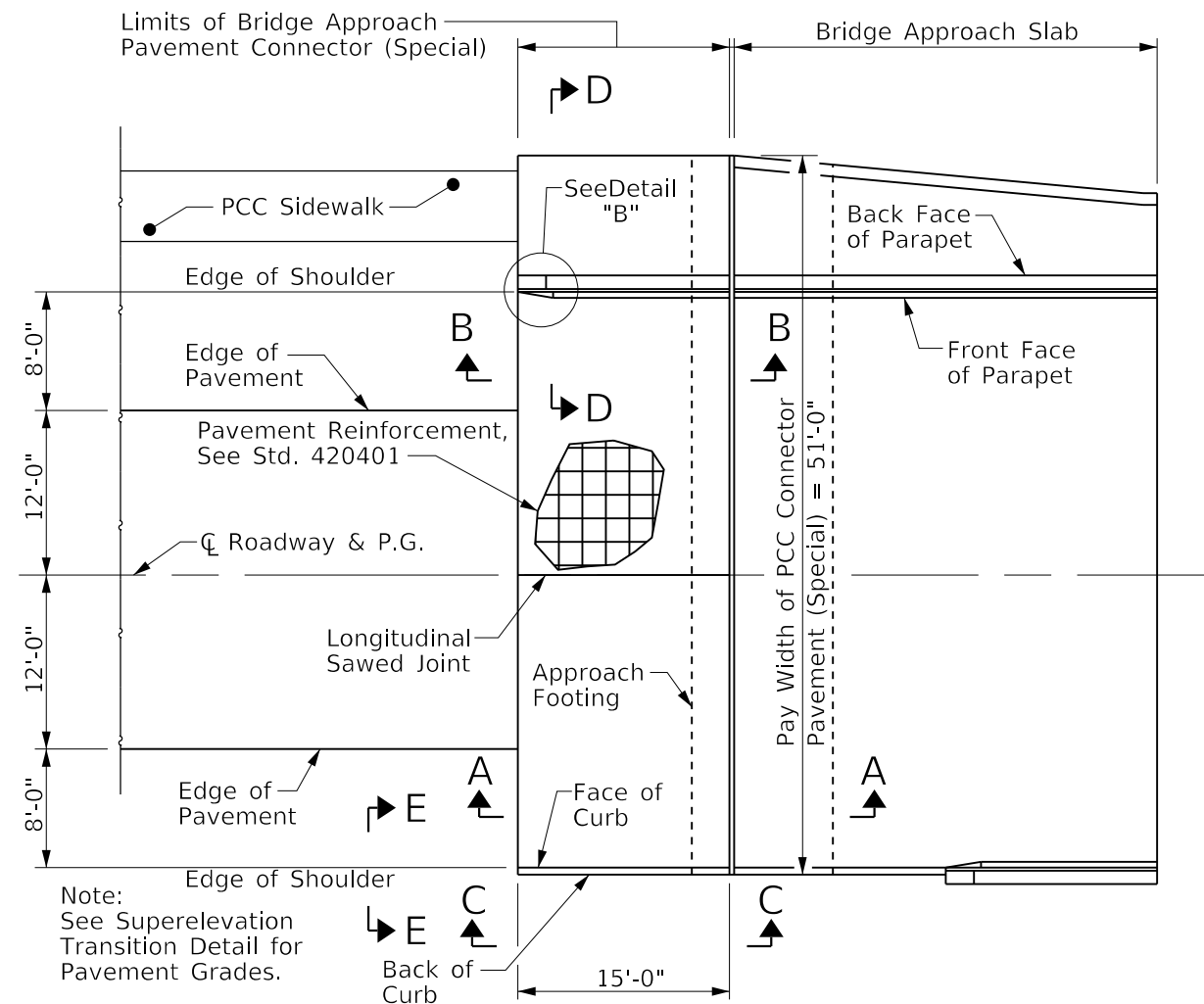
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

GEOTEXTILE WALL CONSTRUCTION SEQUENCE

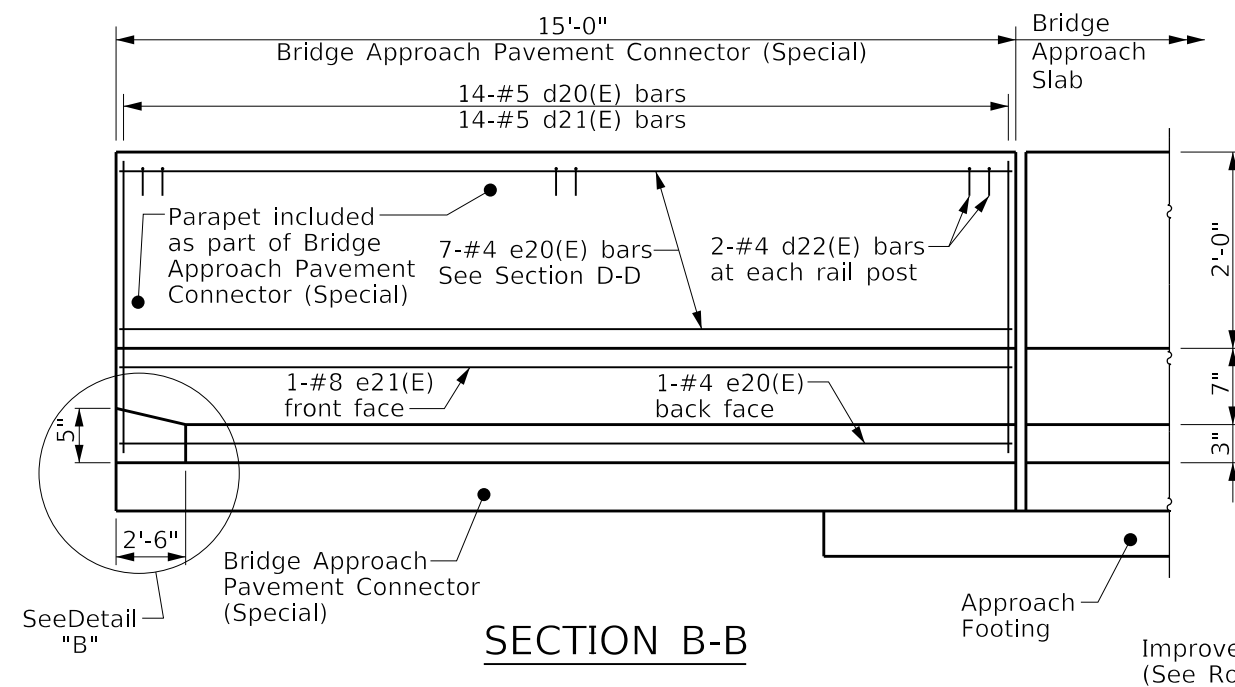
Note:

The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of _____ lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

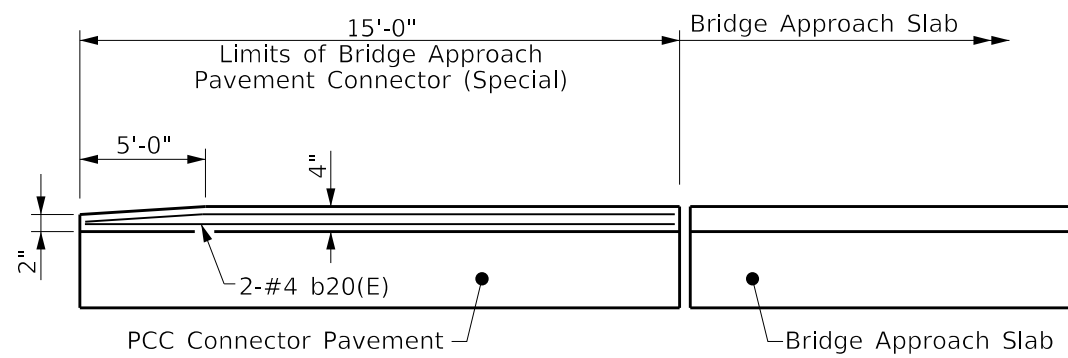
FILE NAME = D570B98-sht-Details-Wall.dgn	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOTEXTILE RETAINING WALL DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.	147	124
	PLOT DATE = 5/6/2019 - 2:57:17 PM	CHECKED -	REVISED -					CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -									



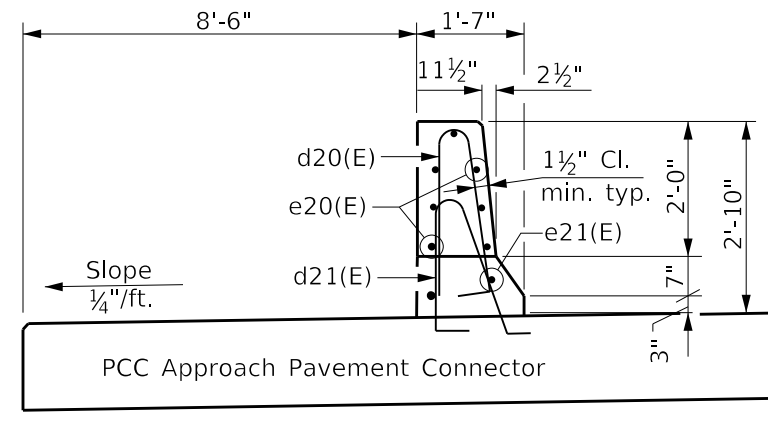
PLAN
(West Approach)



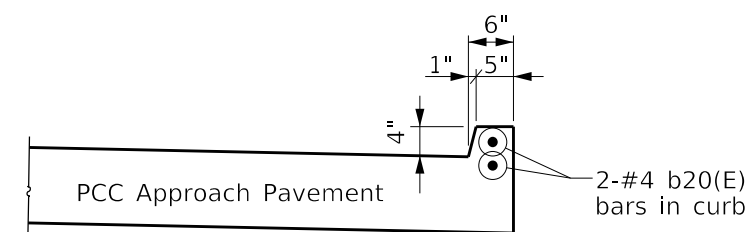
SECTION B-B



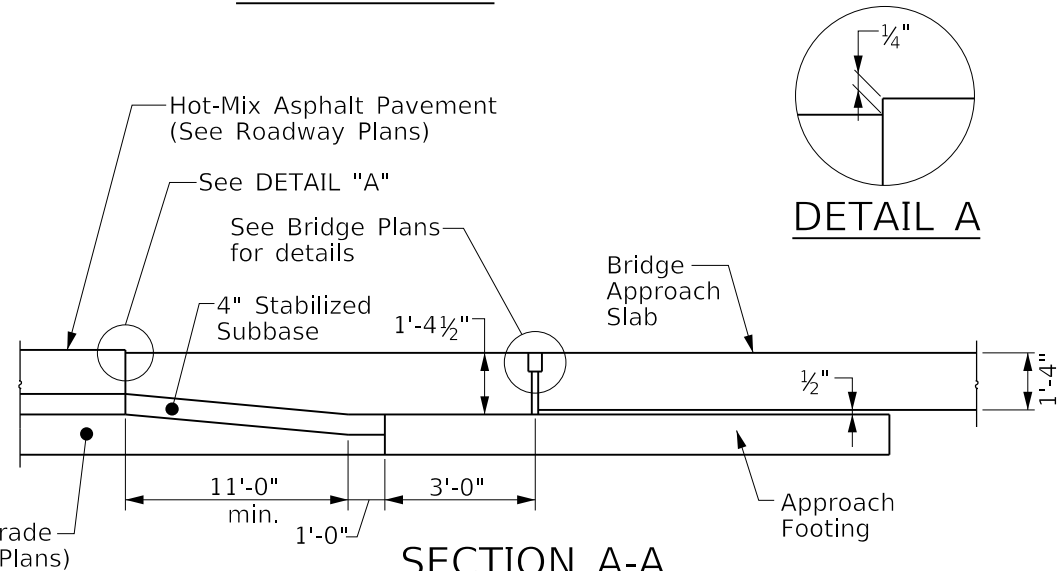
SECTION C-C



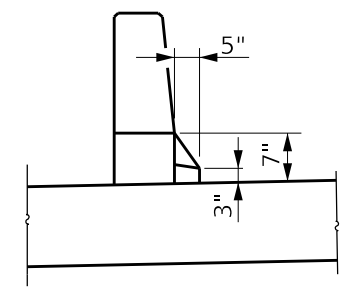
SECTION D-D



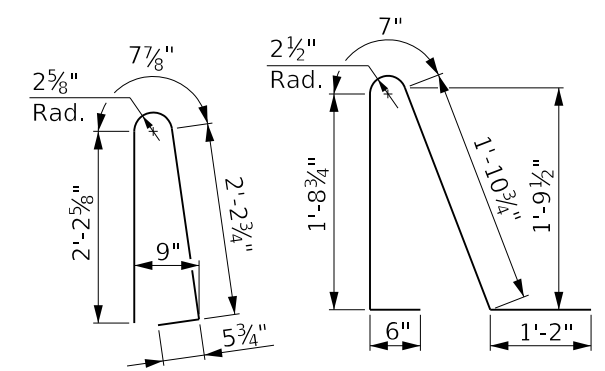
SECTION E-E



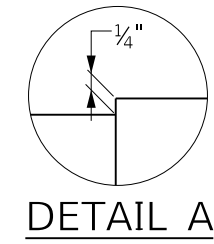
SECTION A-A



DETAIL "B"
(Taper in 2'-6")



BAR d22(E) BAR d20(E) BAR d21(E)



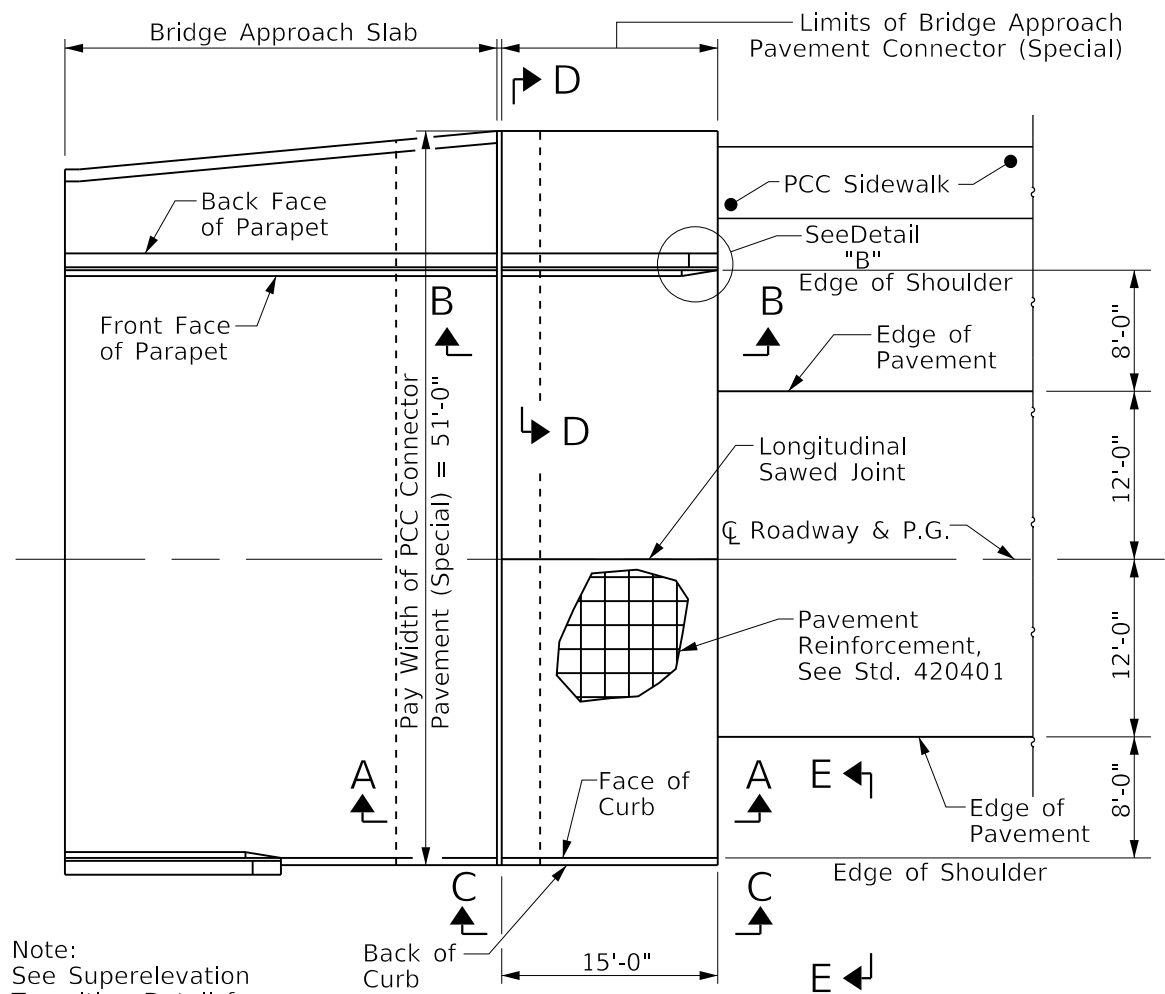
DETAIL A

PARAPET BAR LIST
(For Information Only)

Bar	No.	Size	Length	Shape
b20(E)	2	#4	14'-8"	—
d20(E)	14	#5	5'-7"	
d21(E)	14	#5	5'-11"	
d22(E)	6	#4	2'-0"	
e20(E)	8	#4	14'-8"	—
e21(E)	1	#8	14'-8"	—
Concrete Superstructure			Cu. Yd.	2.1
Protective Coat			Sq. Yd.	95
Reinforcement Bars Epoxy Coated			Lb.	310

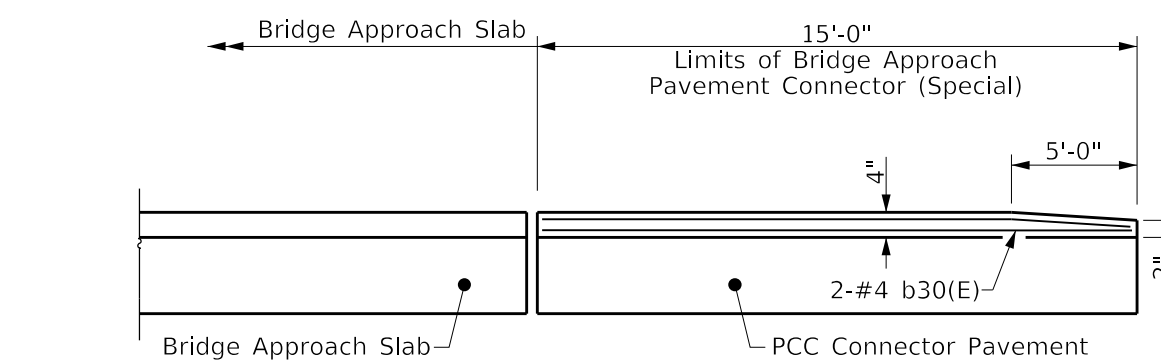
GENERAL NOTES

See Standard 421001 for reinforcement details not shown.
 See Standard 420001 for joint details not shown.
 See Structure plans for details at bridge approach, approach footing and preformed joint seal.

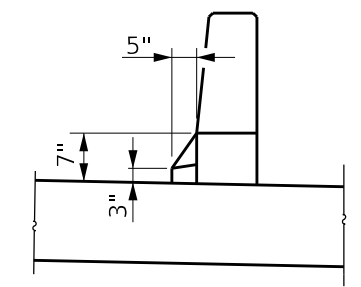


PLAN
(East Approach)

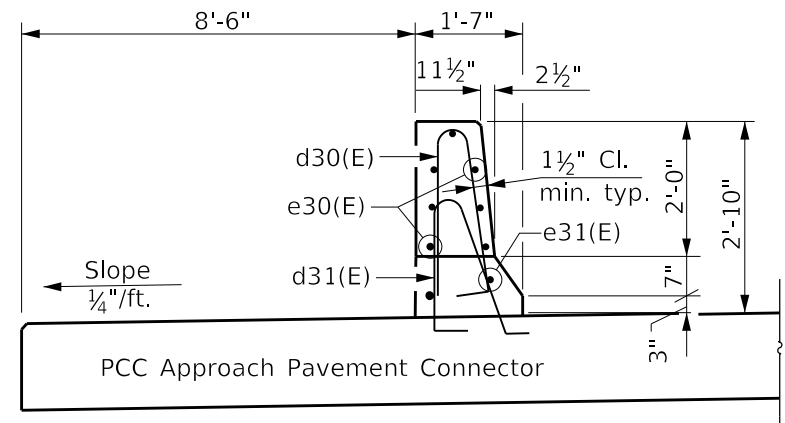
Note:
See Superelevation
Transition Detail for
Pavement Grades.



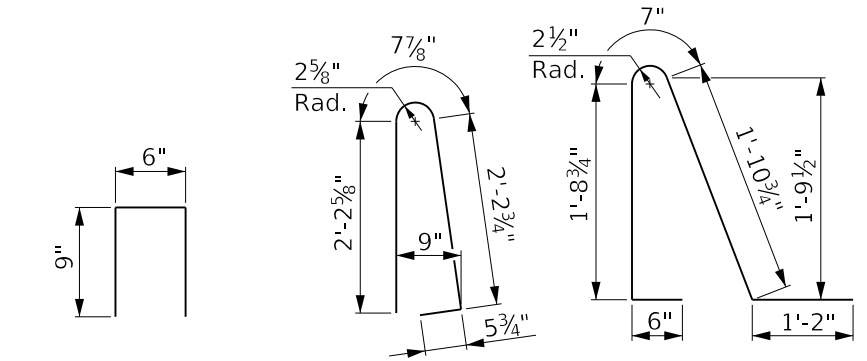
SECTION C-C



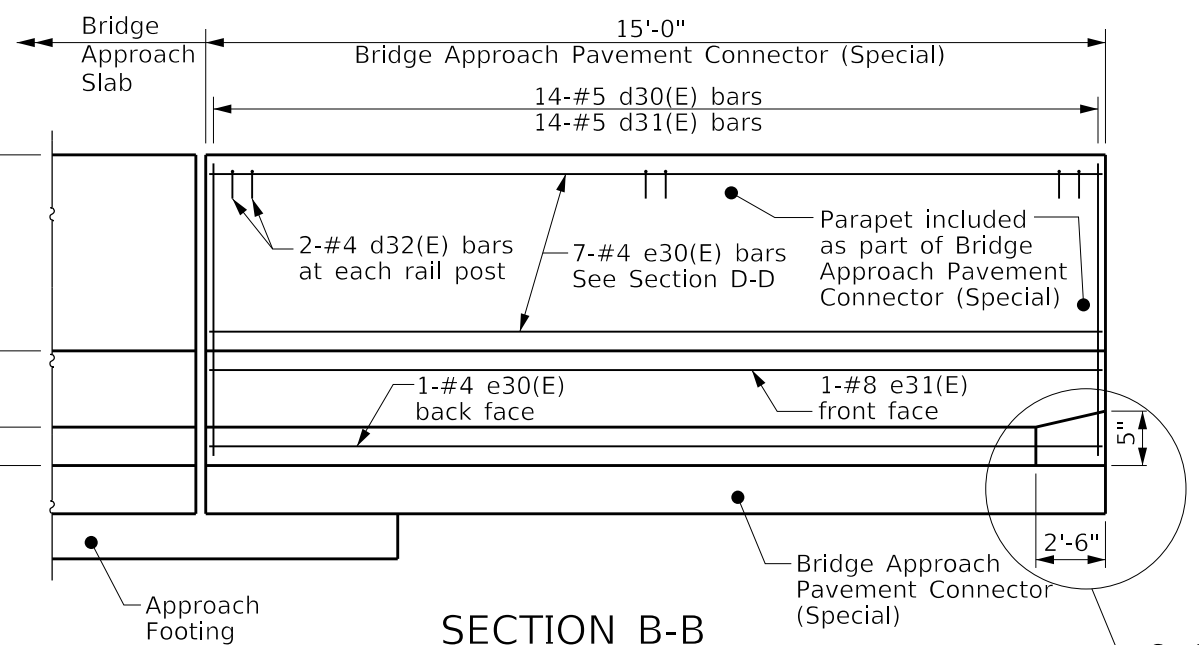
DETAIL "B"
(Taper in 2'-6")



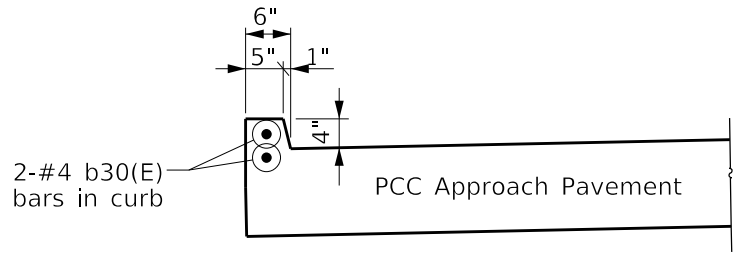
SECTION D-D



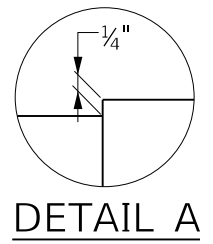
BAR d32(E) BAR d30(E) BAR d31(E)



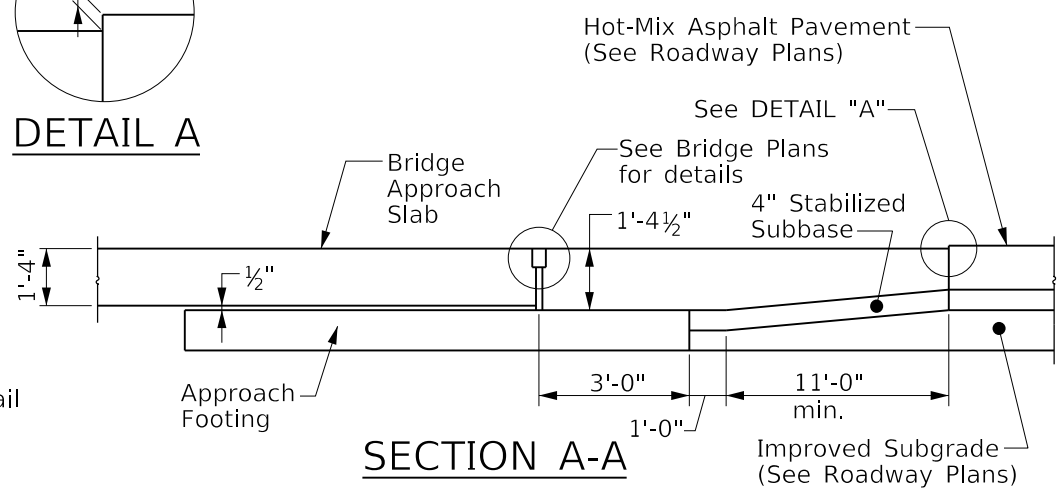
SECTION B-B



SECTION E-E



DETAIL A



SECTION A-A

PARAPET BAR LIST

(For Information Only)

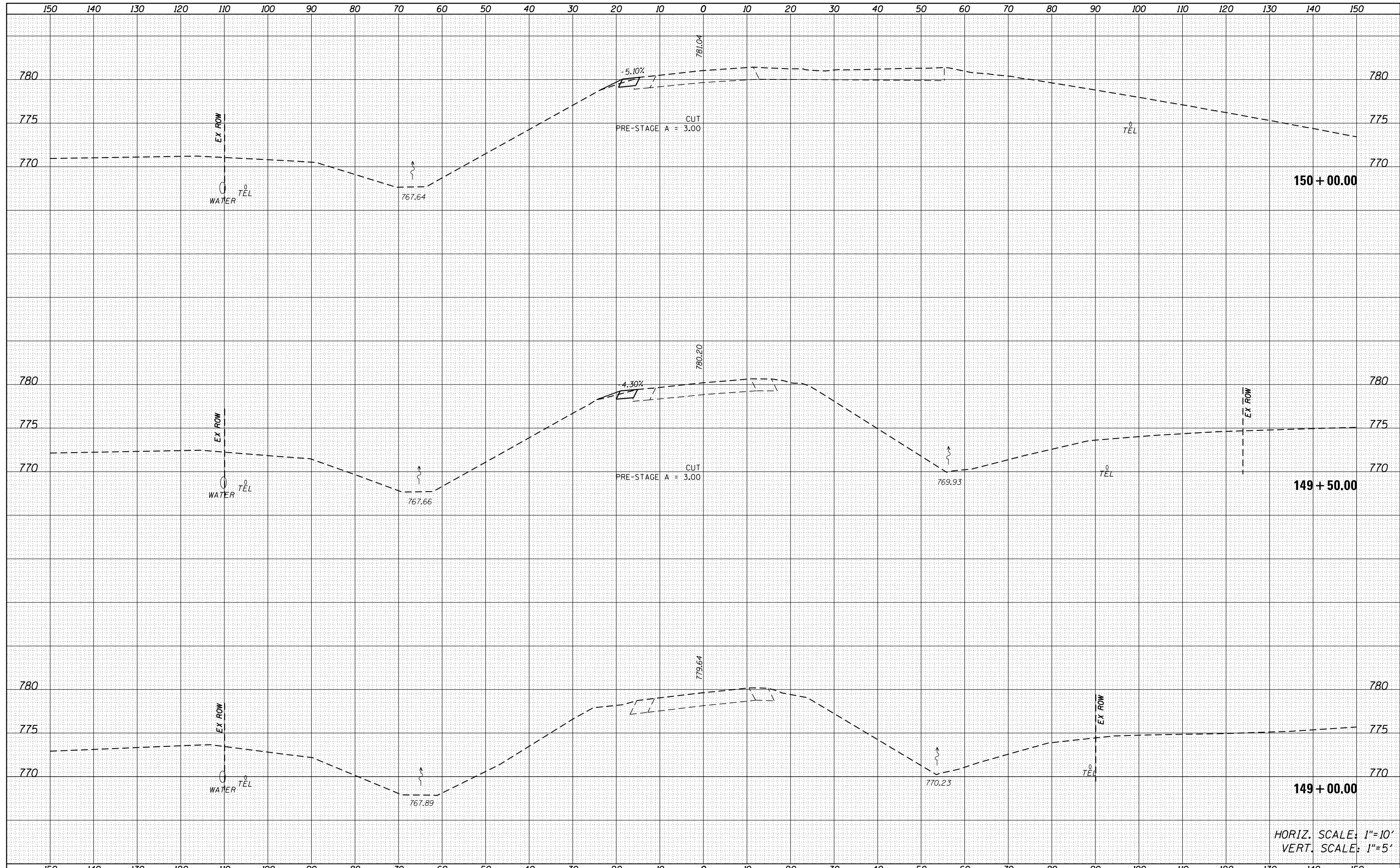
Bar	No.	Size	Length	Shape
b30(E)	2	#4	14'-8"	—
d30(E)	14	#5	5'-7"	⌒
d31(E)	14	#5	5'-11"	⌒
d32(E)	6	#4	2'-0"	⌒
e30(E)	8	#4	14'-8"	—
e31(E)	1	#8	14'-8"	—
Concrete Superstructure			Cu. Yd.	2.1
Protective Coat			Sq. Yd.	95
Reinforcement Bars Epoxy Coated			Lb.	310

GENERAL NOTES

See Standard 421001 for reinforcement details not shown.
See Standard 420001 for joint details not shown.
See Structure plans for details at bridge approach, approach footing and preformed joint seal.

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

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

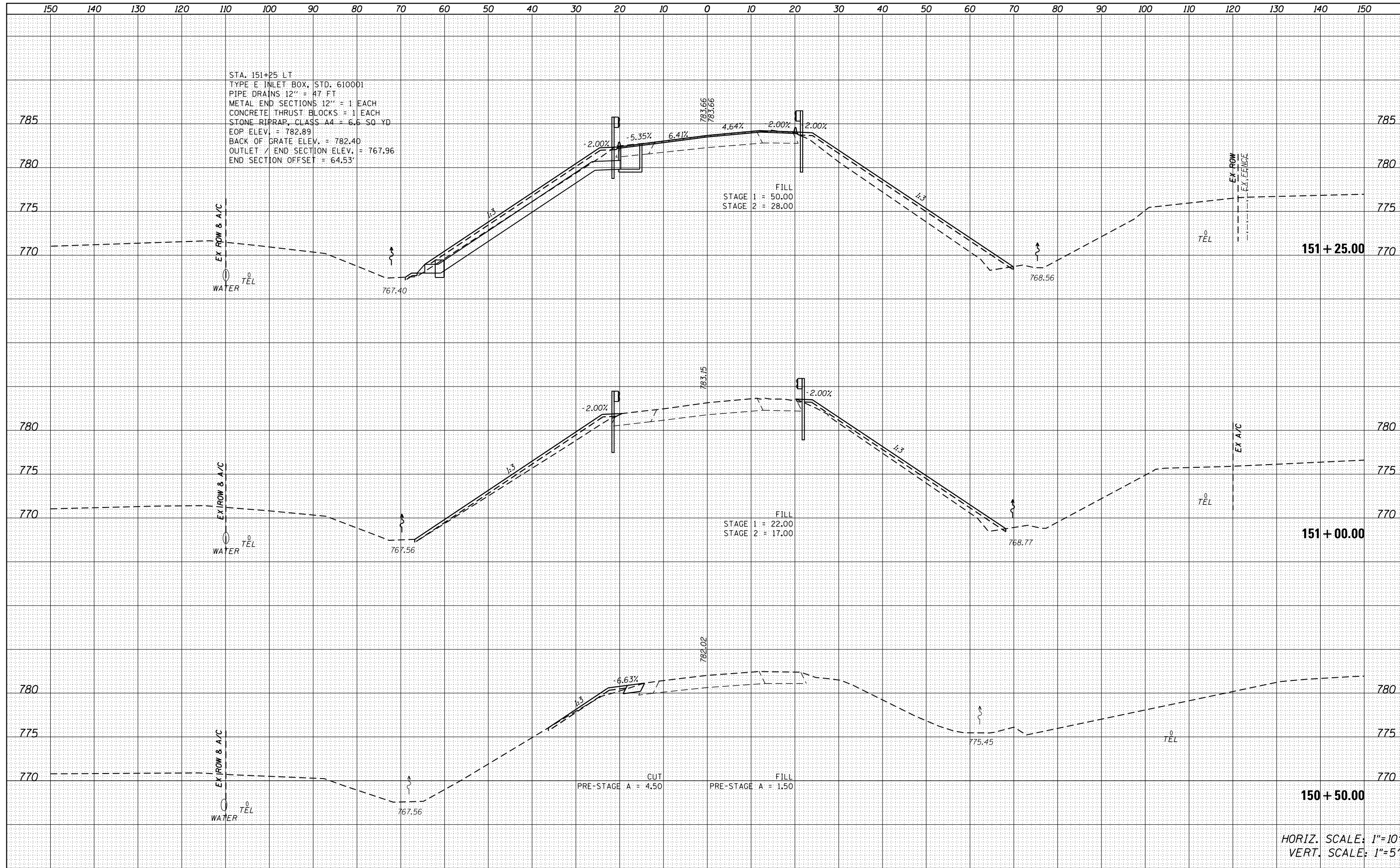


HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemory	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS U.S. 150				F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default	PLOT SCALE = 20.0000' / in.	DRAWN - MKK	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 149+00.00	TO STA. 150+00.00	57	(10-34HB)BR-1	CHAMPAIGN	147	127
	PLOT DATE = 5/6/2019 - 2:58:01 PM	CHECKED - BJE	REVISED -												
		DATE - 04/16/2019	REVISED -												
											CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



STA. 151+25 LT
 TYPE E INLET BOX, STD. 610001
 PIPE DRAINS 12" = 47 FT
 METAL END SECTIONS 12" = 1 EACH
 CONCRETE THRUST BLOCKS = 1 EACH
 STONE RIPRAP, CLASS A4 = 6.5 SQ YD
 EOP ELEV. = 782.89
 BACK OF GRATE ELEV. = 782.40
 OUTLET / END SECTION ELEV. = 767.96
 END SECTION OFFSET = 64.53'

FILL
 STAGE 1 = 50.00
 STAGE 2 = 28.00

FILL
 STAGE 1 = 22.00
 STAGE 2 = 17.00

CUT PRE-STAGE A = 4.50
 FILL PRE-STAGE A = 1.50

HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

FILE NAME =
 D570B98-sht-xsc-US150.dgn

USER NAME = bemery
 DESIGNED - MKK
 DRAWN - MKK
 CHECKED - BJE
 PLOT DATE = 5/6/2019 - 2:58:01 PM

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

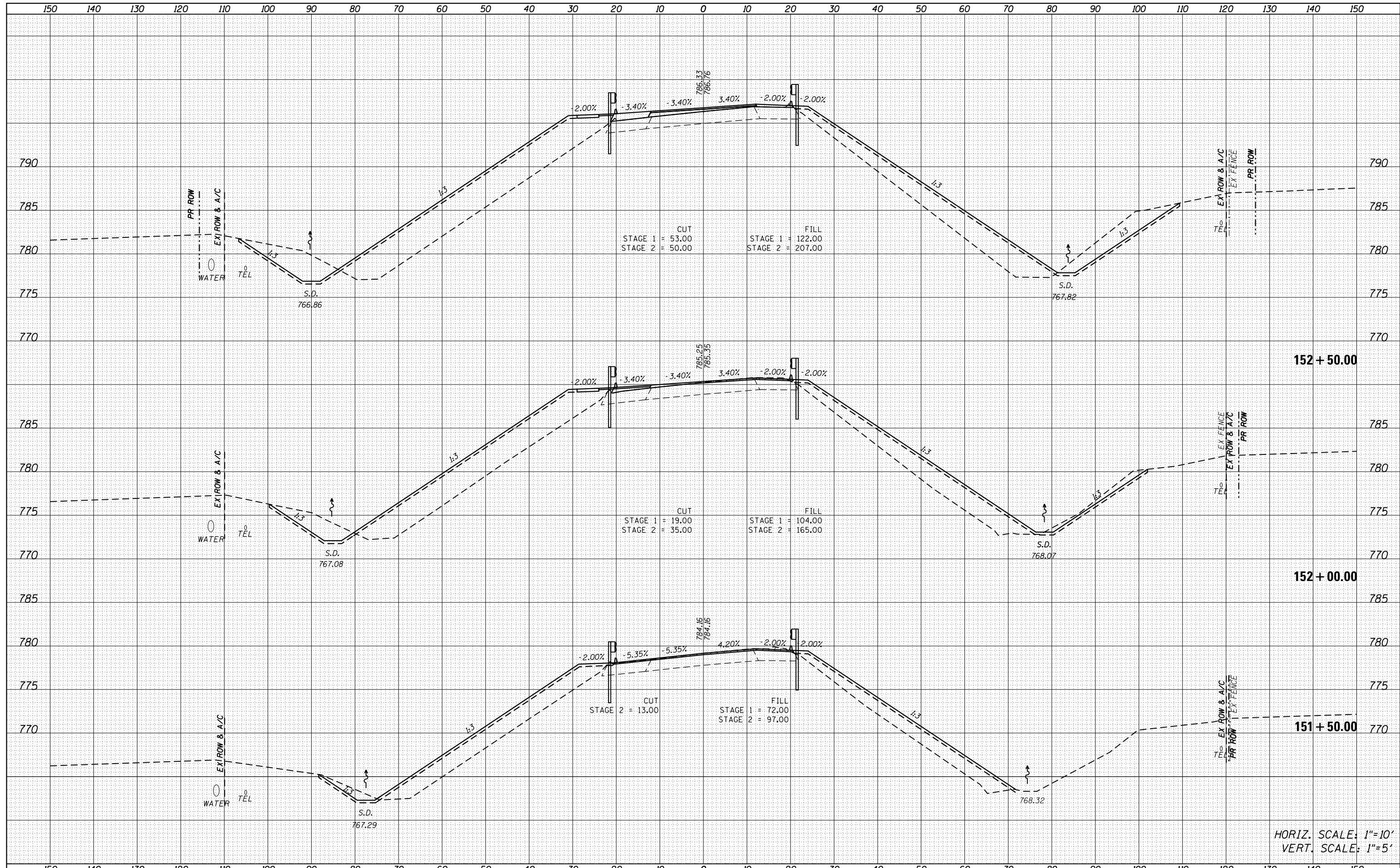
CROSS SECTIONS
 U.S. 150

SCALE: SHEET OF SHEETS STA. 150+50.00 TO STA. 151+50.00

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	128
CONTRACT NO. 70B98				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

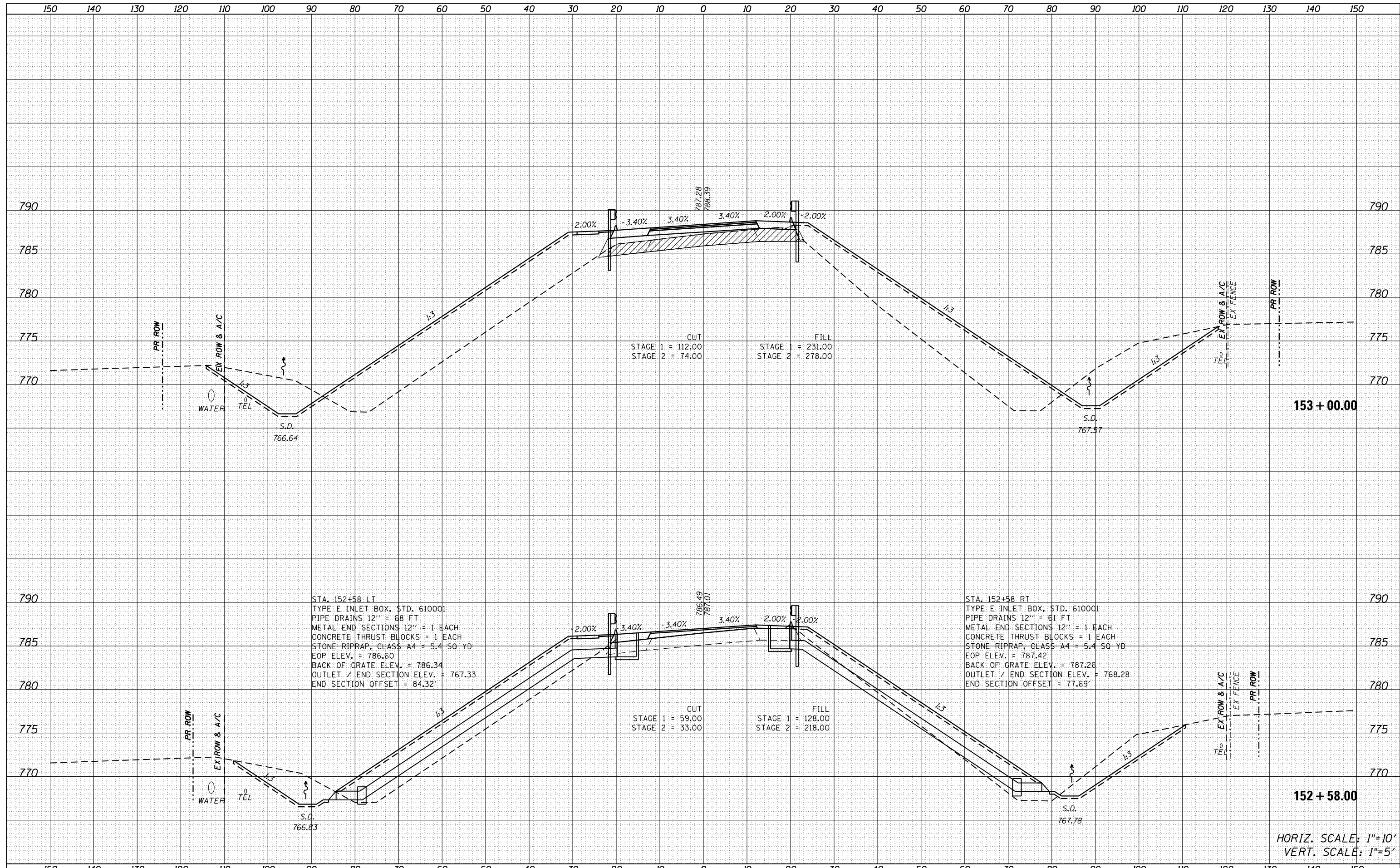


HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemyrj	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS U.S. 150			F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	PLOT SCALE = 20.0000' / in.	DRAWN - MKK	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 152+00.00	TO STA. 152+50.00	57	(10-34HB)BR-1	CHAMPAIGN	147	129
	PLOT DATE = 5/6/2019 - 2:58:02 PM	CHECKED - BJE	REVISED -												
		DATE - 04/16/2019	REVISED -												CONTRACT NO. 70B98

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

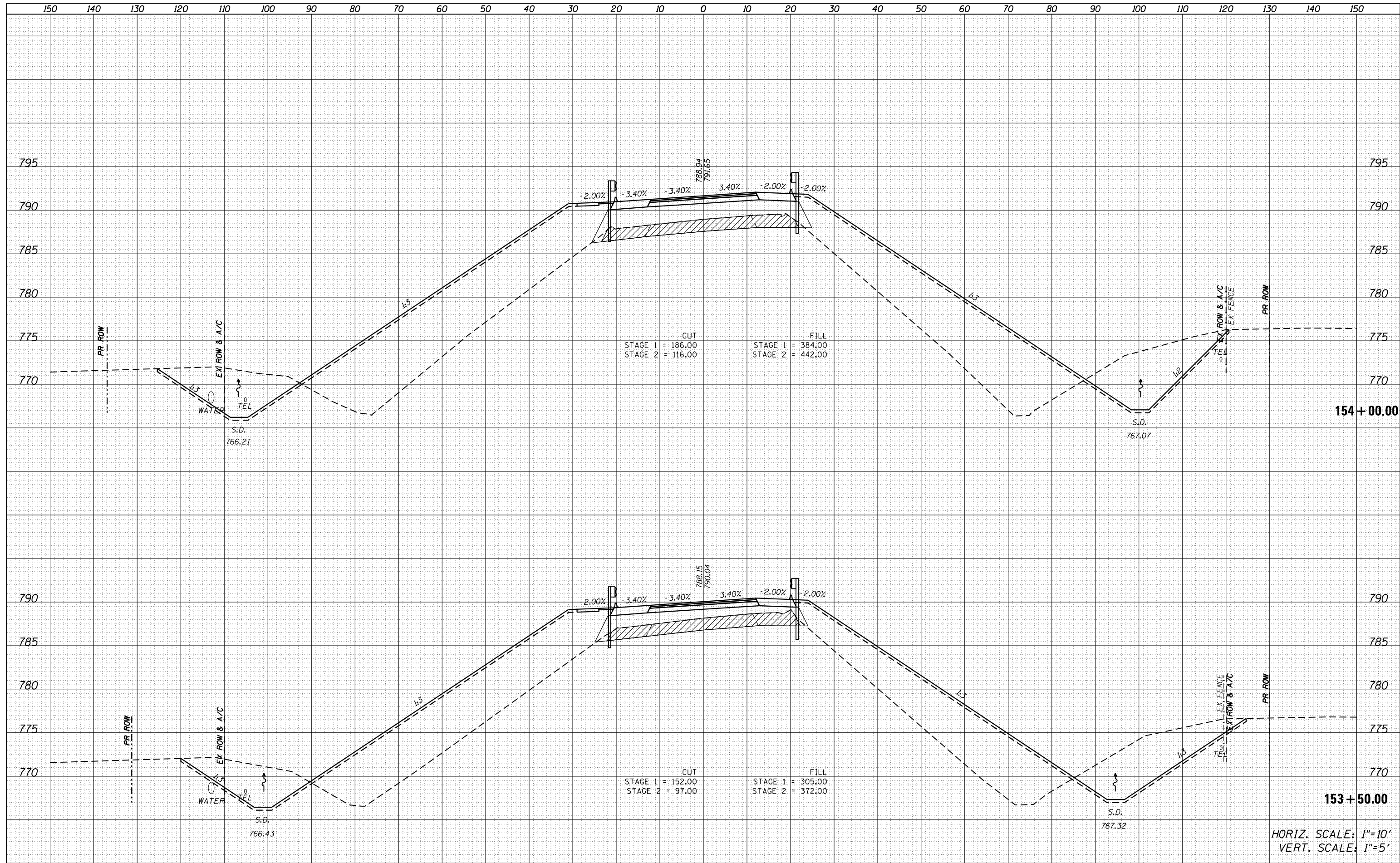
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = bemery	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D570B98-sht-xsc-US150.dgn		DRAWN - MKK	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 152+58.00	TO STA. 153+00.00	CHAMPAIGN	147	130
Default		CHECKED - BJE	REVISED -								CONTRACT NO. 70B98		
		DATE - 04/16/2019	REVISED -								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



HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-US150.dgn

USER NAME = bemory
DESIGNED - MKK
DRAWN - MKK
CHECKED - BJE
DATE - 04/16/2019

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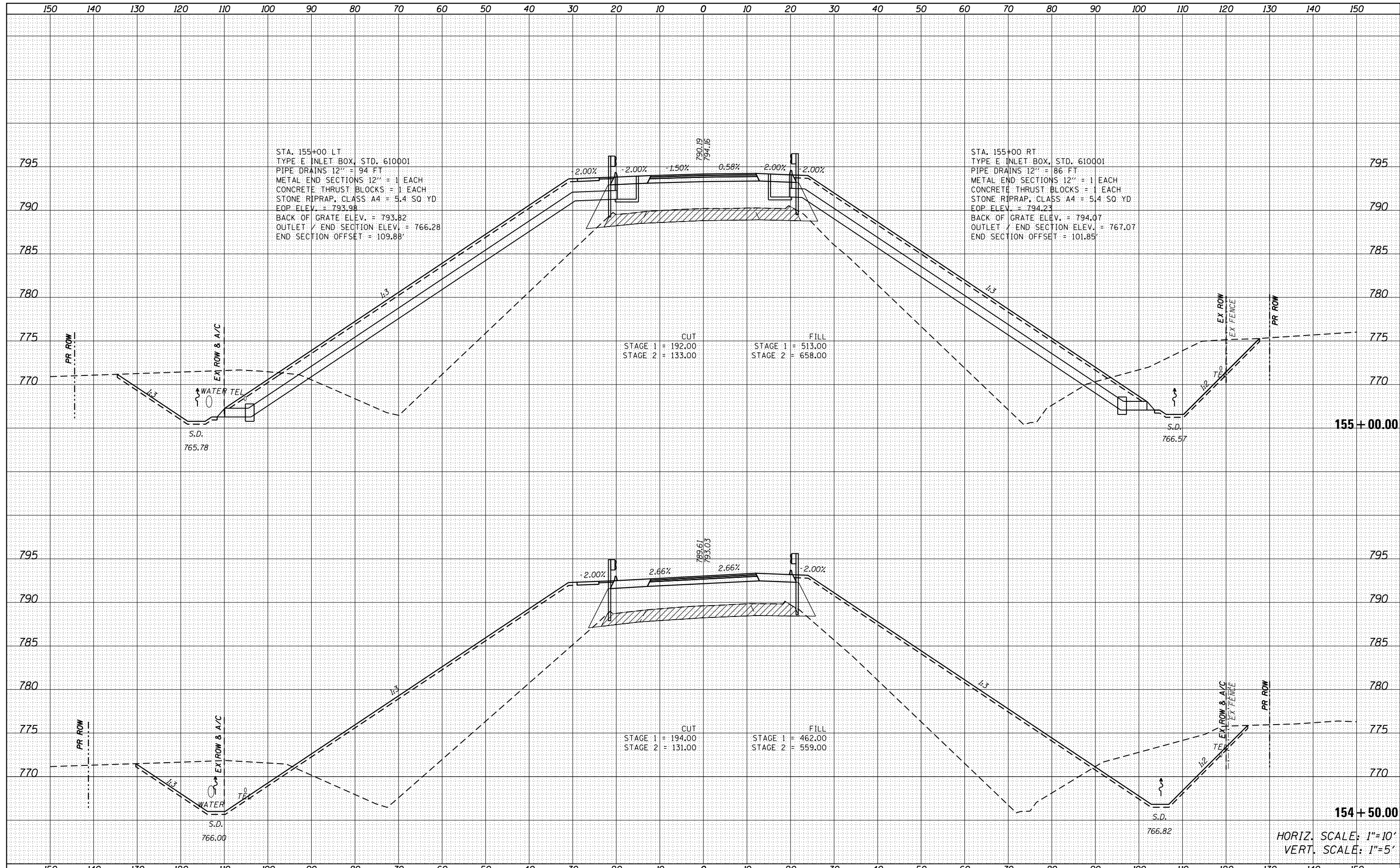
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
U.S. 150**
SCALE: SHEET OF SHEETS STA. 153+50.00 TO STA. 154+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	131
			CONTRACT NO.	70B98
ILLINOIS FED. AID PROJECT				

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

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



STA. 155+00 LT
 TYPE E INLET BOX, STD. 610001
 PIPE DRAINS 12" = 94 FT
 METAL END SECTIONS 12" = 1 EACH
 CONCRETE THRUST BLOCKS = 1 EACH
 STONE RIPRAP, CLASS A4 = 5.4 SQ YD
 EOP ELEV. = 793.98
 BACK OF GRATE ELEV. = 793.82
 OUTLET / END SECTION ELEV. = 766.28
 END SECTION OFFSET = 109.88'

STA. 155+00 RT
 TYPE E INLET BOX, STD. 610001
 PIPE DRAINS 12" = 86 FT
 METAL END SECTIONS 12" = 1 EACH
 CONCRETE THRUST BLOCKS = 1 EACH
 STONE RIPRAP, CLASS A4 = 5.4 SQ YD
 EOP ELEV. = 794.23
 BACK OF GRATE ELEV. = 794.07
 OUTLET / END SECTION ELEV. = 767.07
 END SECTION OFFSET = 101.85'

CUT
 STAGE 1 = 192.00
 STAGE 2 = 133.00
 FILL
 STAGE 1 = 513.00
 STAGE 2 = 658.00

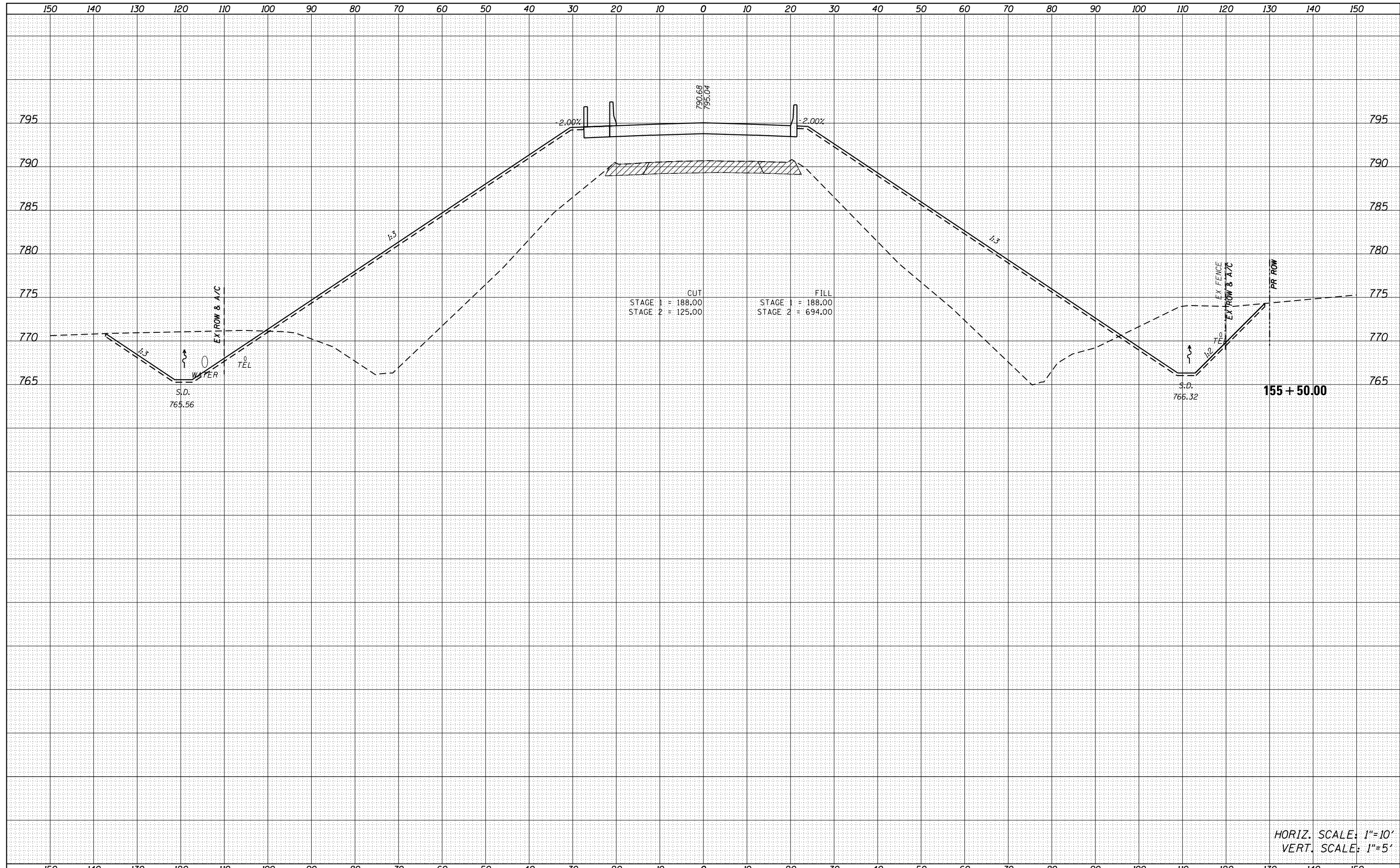
CUT
 STAGE 1 = 194.00
 STAGE 2 = 131.00
 FILL
 STAGE 1 = 462.00
 STAGE 2 = 559.00

HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemory	DESIGNED - MKK	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISD -		SCALE:	SHEET	OF	SHEETS	STA. 154+50.00	TO STA. 155+00.00	57	(10-34HB)BR-1	CHAMPAIGN	147 132
	PLOT DATE = 6/4/2019 - 7:56:46 AM	DATE - 04/16/2019	REVISD -										CONTRACT NO. 70B98	
													ILLINOIS FED. AID PROJECT	

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

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

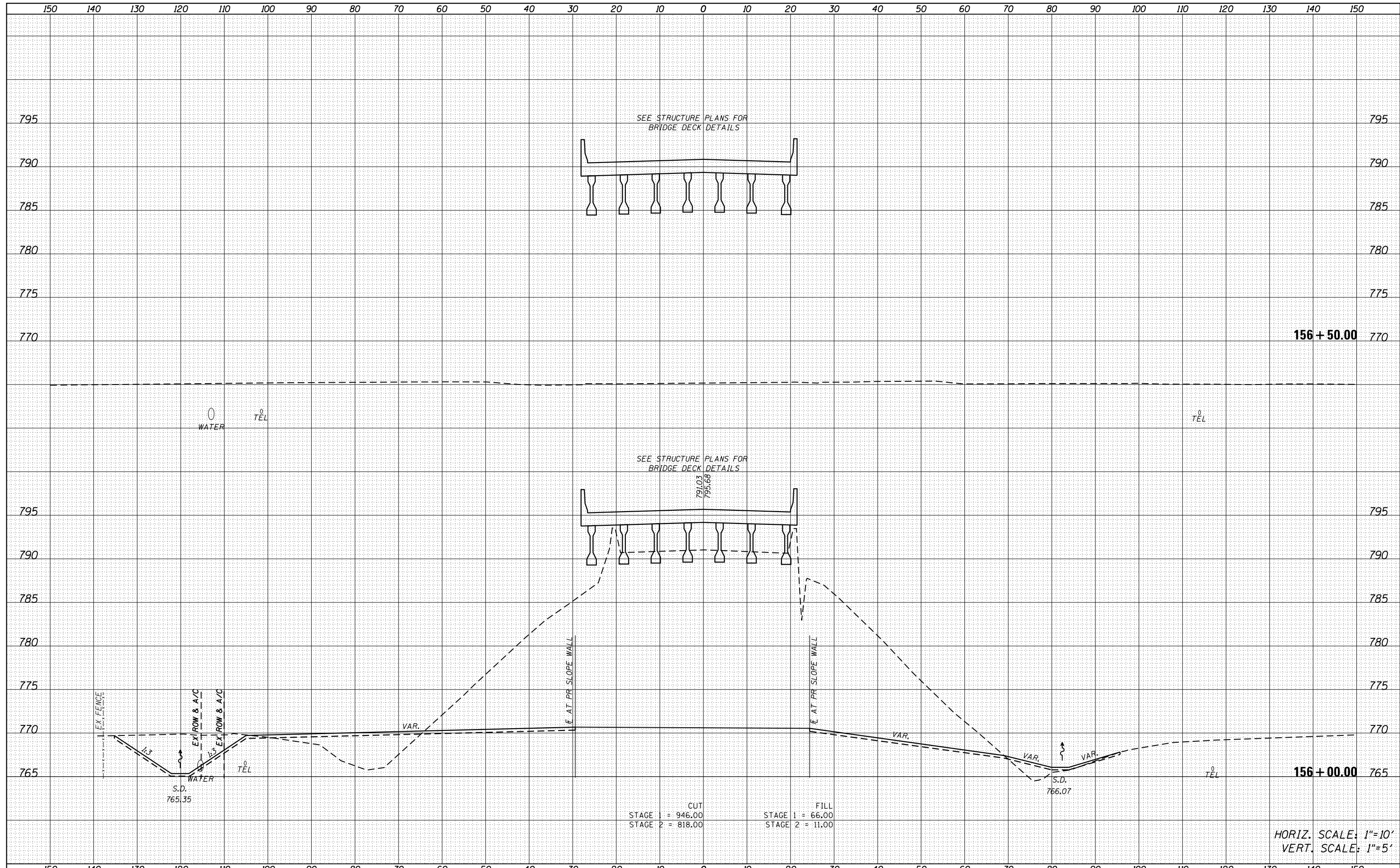


HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME =	USER NAME = bemory	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS U.S. 150				F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D570B98-sht-xsc-US150.dgn		DRAWN - MKK	REVISED -						57	(10-34HB)BR-1	CHAMPAIGN	147	133
Default	PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISED -		SCALE: SHEET OF SHEETS STA. 155+08.00 TO STA. 155+50.00				CONTRACT NO. 70B98				
	PLOT DATE = 6/4/2019 - 7:56:47 AM	DATE - 04/16/2019	REVISED -		ILLINOIS FED. AID PROJECT								

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



HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

FILE NAME =
 D570B98-sht-xsc-US150.dgn

USER NAME = bemory
 DESIGNED - MKK
 DRAWN - MKK
 CHECKED - BJE
 DATE - 04/16/2019

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

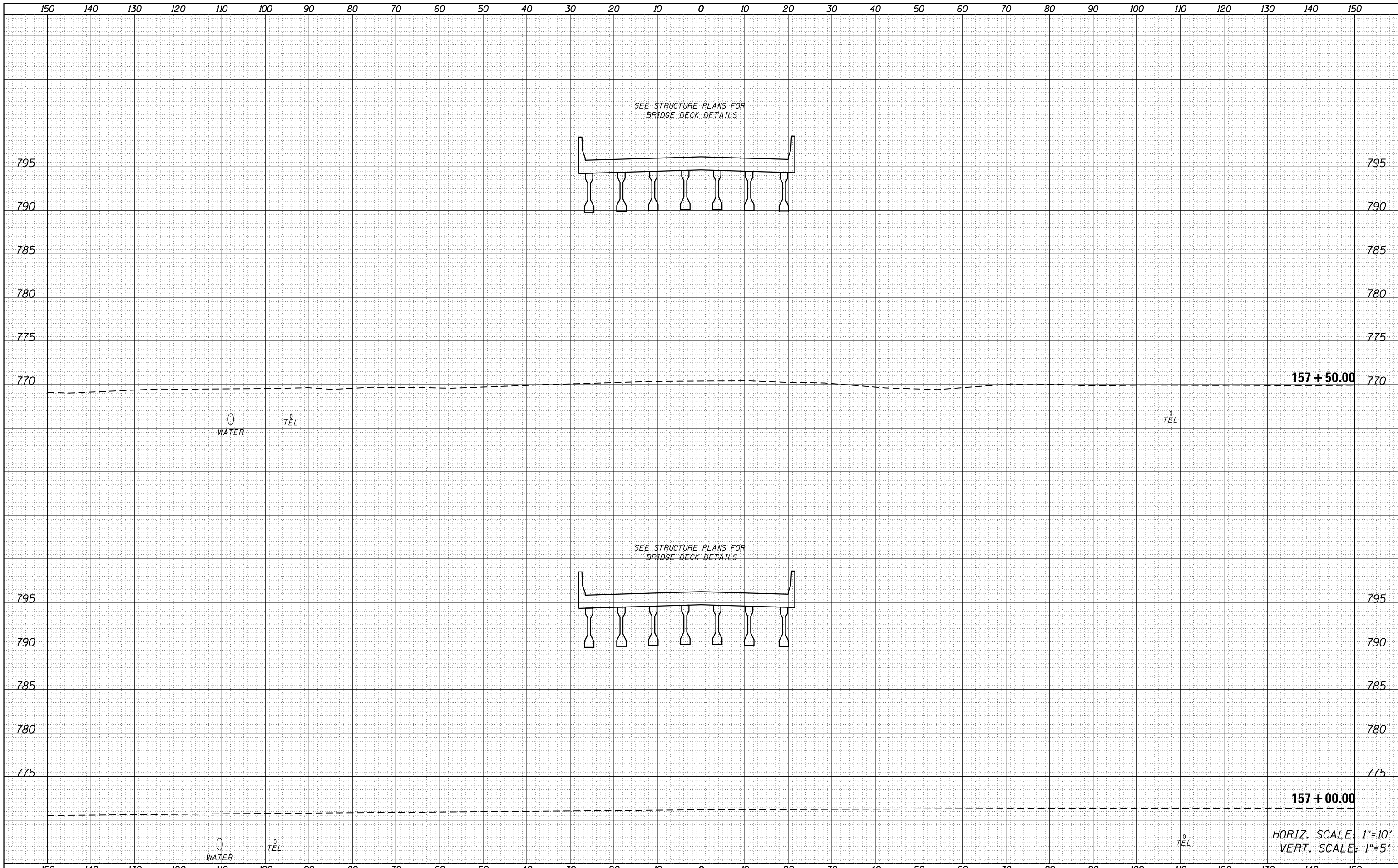
CROSS SECTIONS
 U.S. 150

SCALE: SHEET OF SHEETS STA. 156+00.00 TO STA. 156+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	134
CONTRACT NO. 70B98				

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FINAL SURVEY	
NOTE BOOK	
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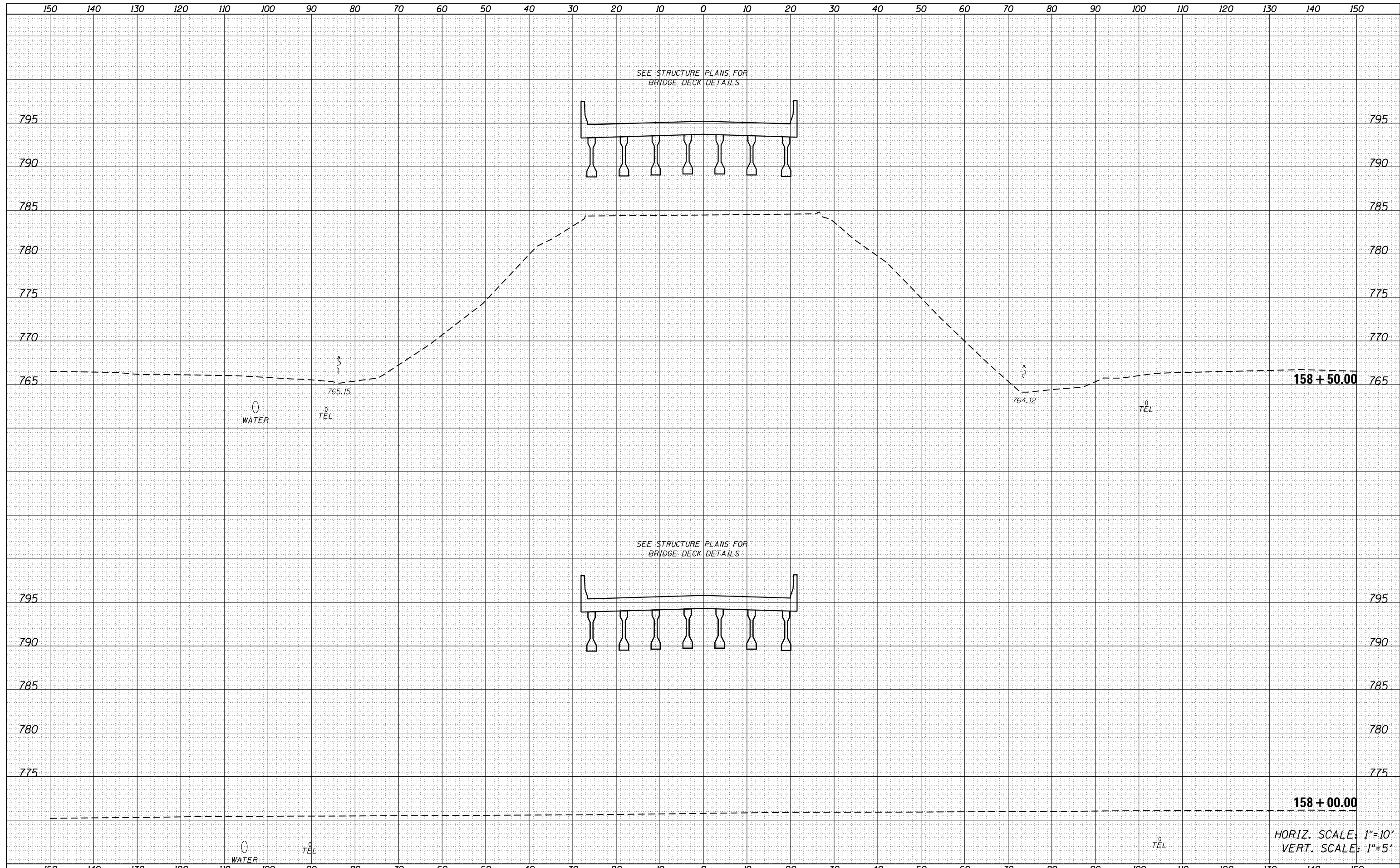
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = bemory	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS U.S. 150				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D570B98-sht-xsc-US150.dgn		DRAWN - MKK	REVISED -		57	(10-34HB)BR-1	CHAMPAIGN	147	135				
Default	PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISED -		SCALE: SHEET OF SHEETS STA. 157+00.00 TO STA. 157+50.00				CONTRACT NO. 70B98				
	PLOT DATE = 5/6/2019 - 2:58:04 PM	DATE - 04/16/2019	REVISED -		ILLINOIS FED. AID PROJECT								

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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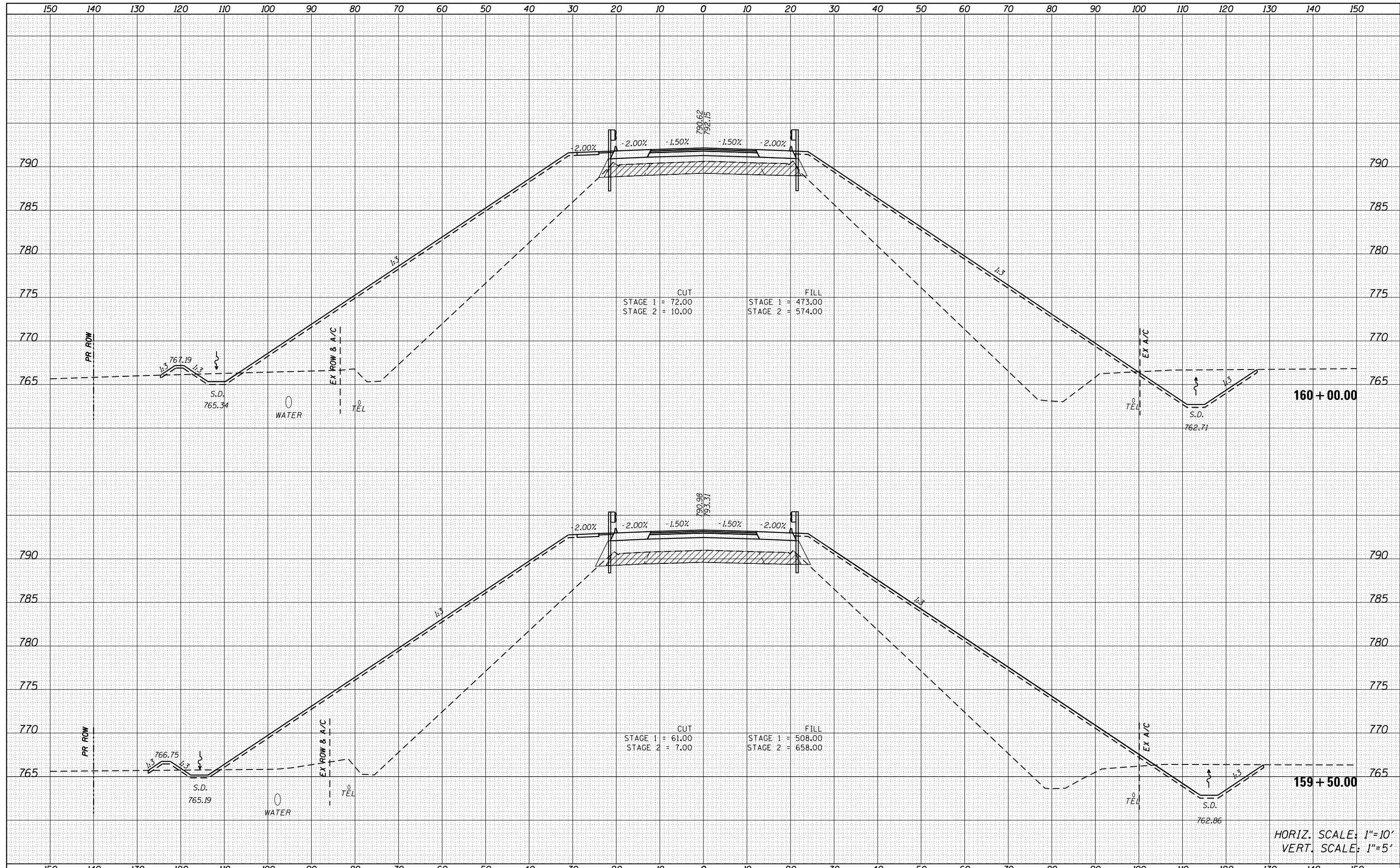
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemory	DESIGNED - MKK	REVISÉD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS U.S. 150			F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISÉD -		SCALE:	SHEET	OF	SHEETS	STA. 158+00.00	TO STA. 158+50.00	57	(10-34HB)BR-1	CHAMPAIGN	147	136
	PLOT DATE = 5/6/2019 - 2:58:05 PM	DATE - 04/16/2019	REVISÉD -										CONTRACT NO.	70B98	
													ILLINOIS	FED. AID	PROJECT

DATE	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
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NOTE BOOK	
AREAS	
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FILE NAME = D570B98-sht-xsc-US150.dgn
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USER NAME = bemory
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 5/6/2019 - 2:58:05 PM

DESIGNED - MKK
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 CHECKED - BJE
 DATE - 04/16/2019

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

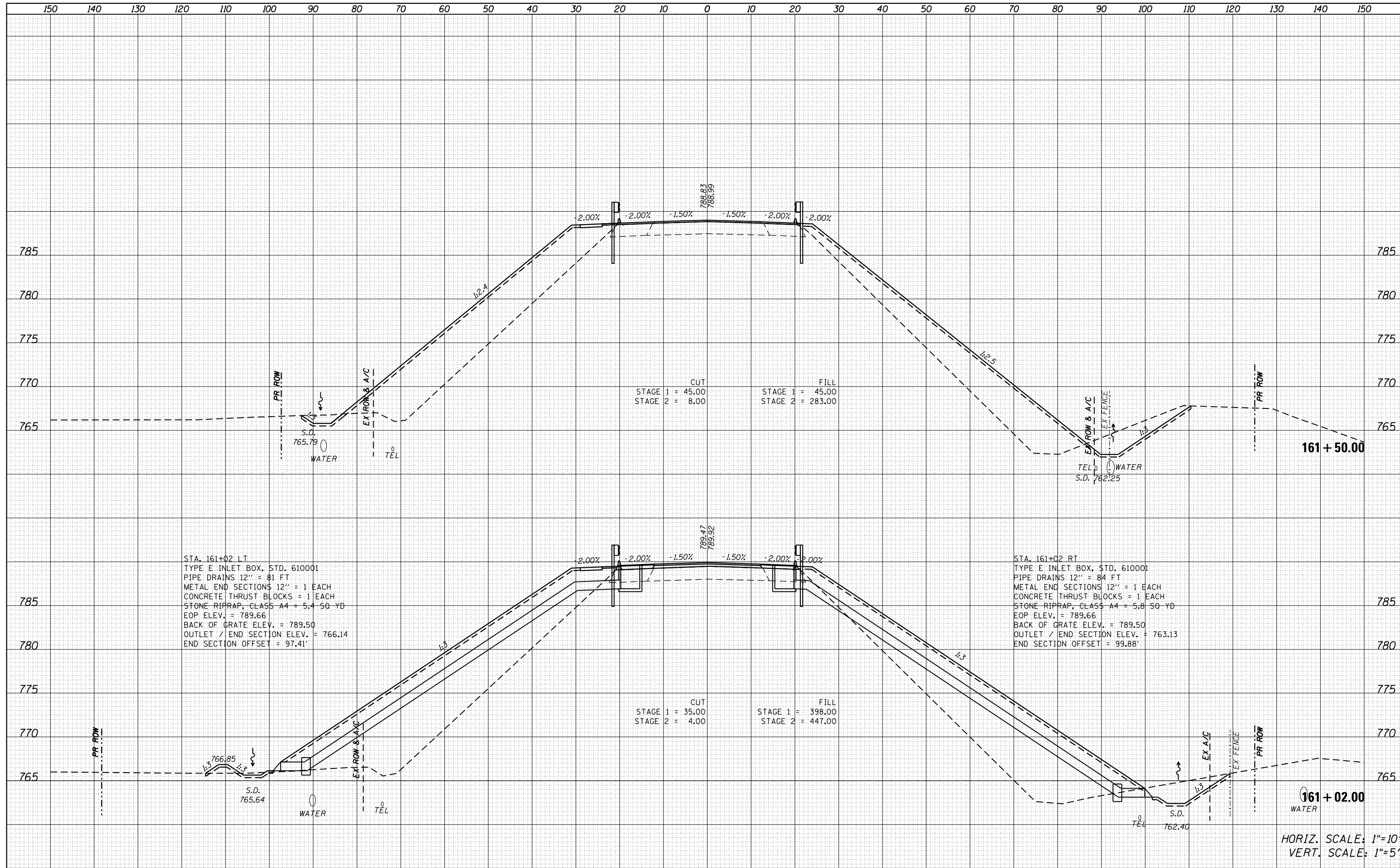
**CROSS SECTIONS
 U.S. 150**
 SCALE: SHEET OF SHEETS STA. 159+50.00 TO STA. 160+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	138
CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	

HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME = D570B98-sht-xsc-US150.dgn
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USER NAME = bemery	DESIGNED - MKK	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISED -
PLOT DATE = 5/6/2019 - 2:58:10 PM	DATE - 04/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

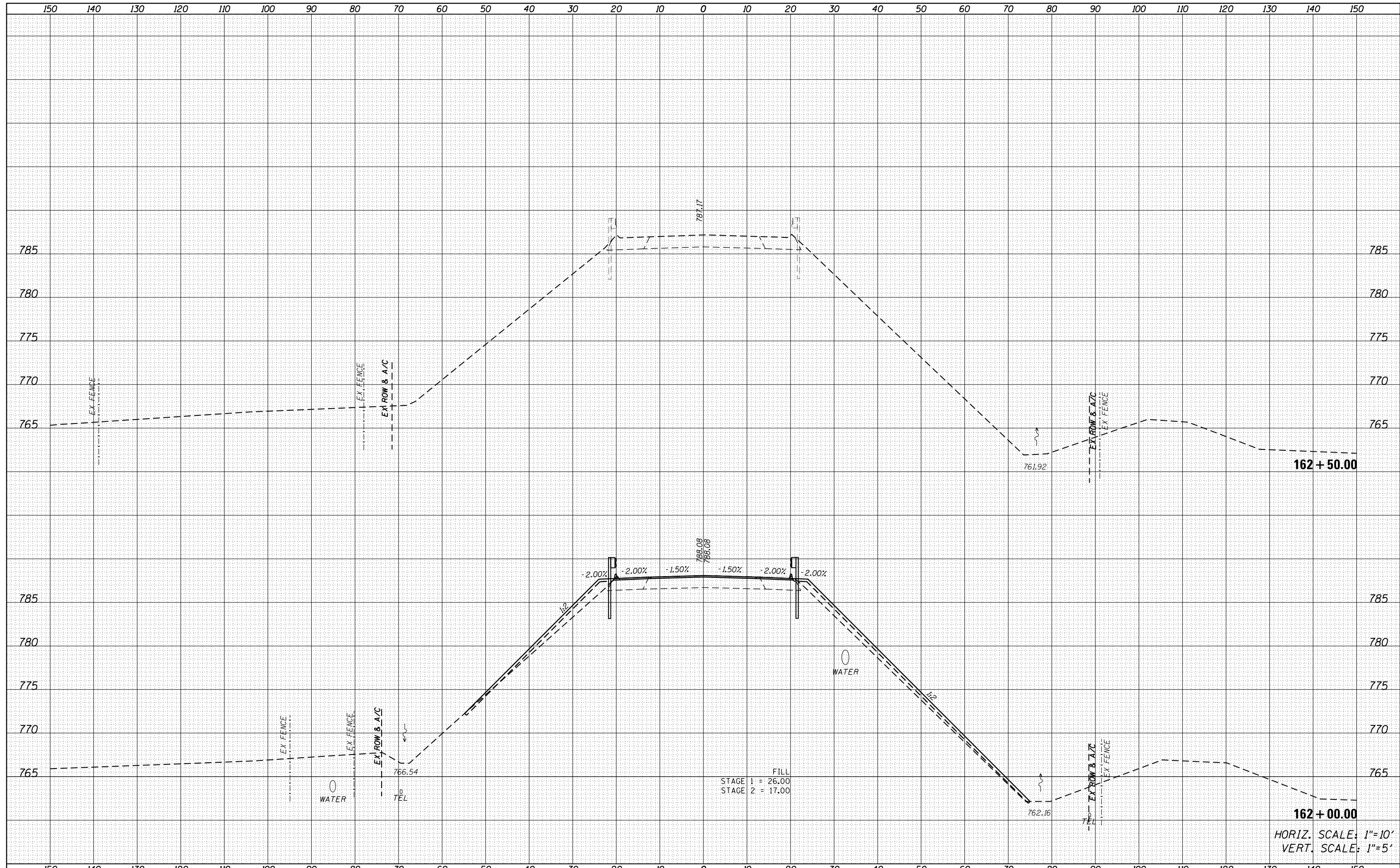
CROSS SECTIONS U.S. 150			
SCALE:	SHEET	OF	SHEETS
			STA. 161+02.00 TO STA. 161+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	140
			CONTRACT NO.	70B98
ILLINOIS FED. AID PROJECT				

HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

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DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME =
D570B98-sht-xsc-US150.dgn

USER NAME = bemory
DESIGNED - MKK
DRAWN - MKK
CHECKED - BJE
DATE - 04/16/2019
PLOT SCALE = 20.0000' / in.
PLOT DATE = 5/6/2019 - 2:58:10 PM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

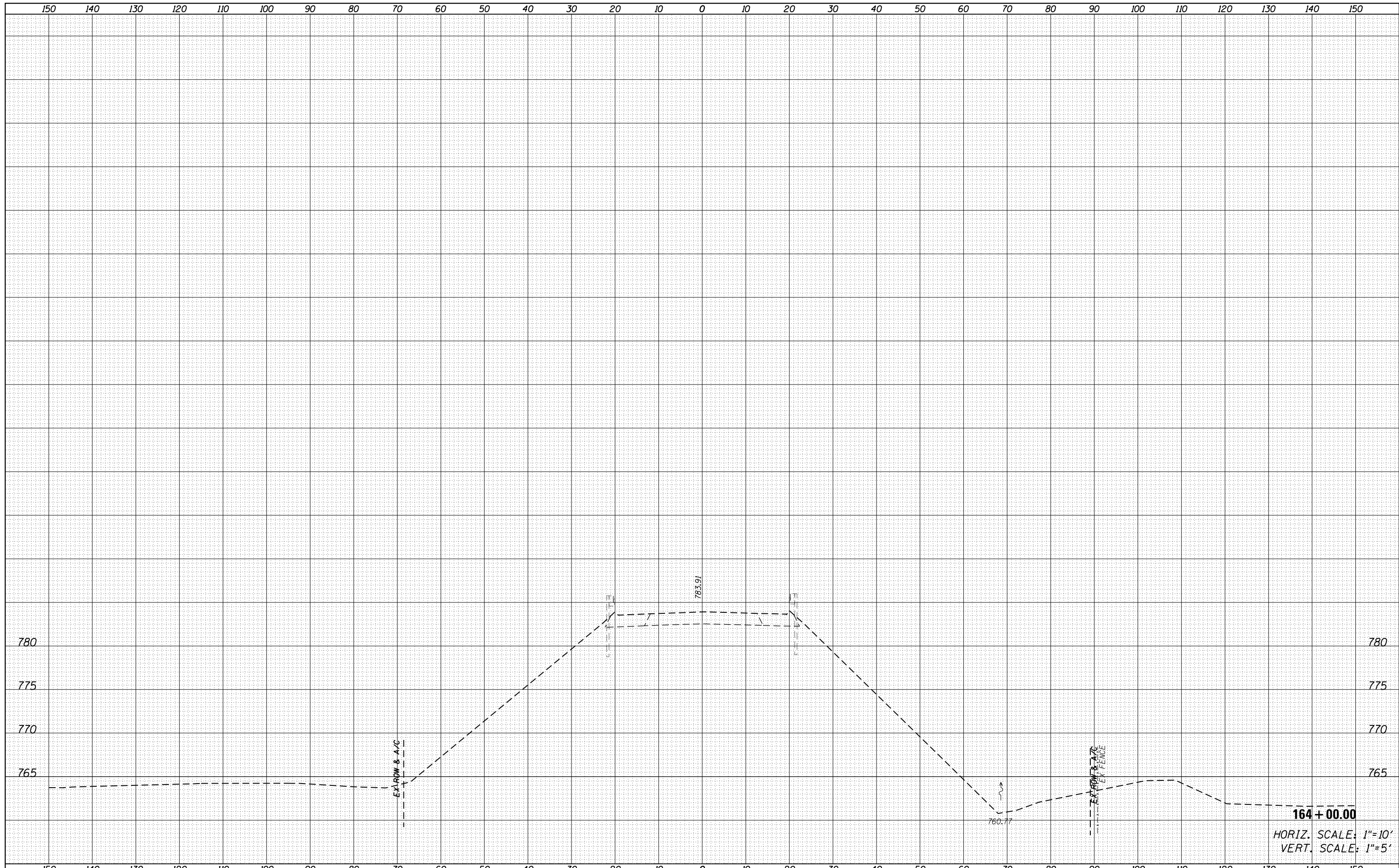
CROSS SECTIONS
U.S. 150

SCALE: SHEET OF SHEETS STA. 162+00.00 TO STA. 162+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	141
CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	

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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	

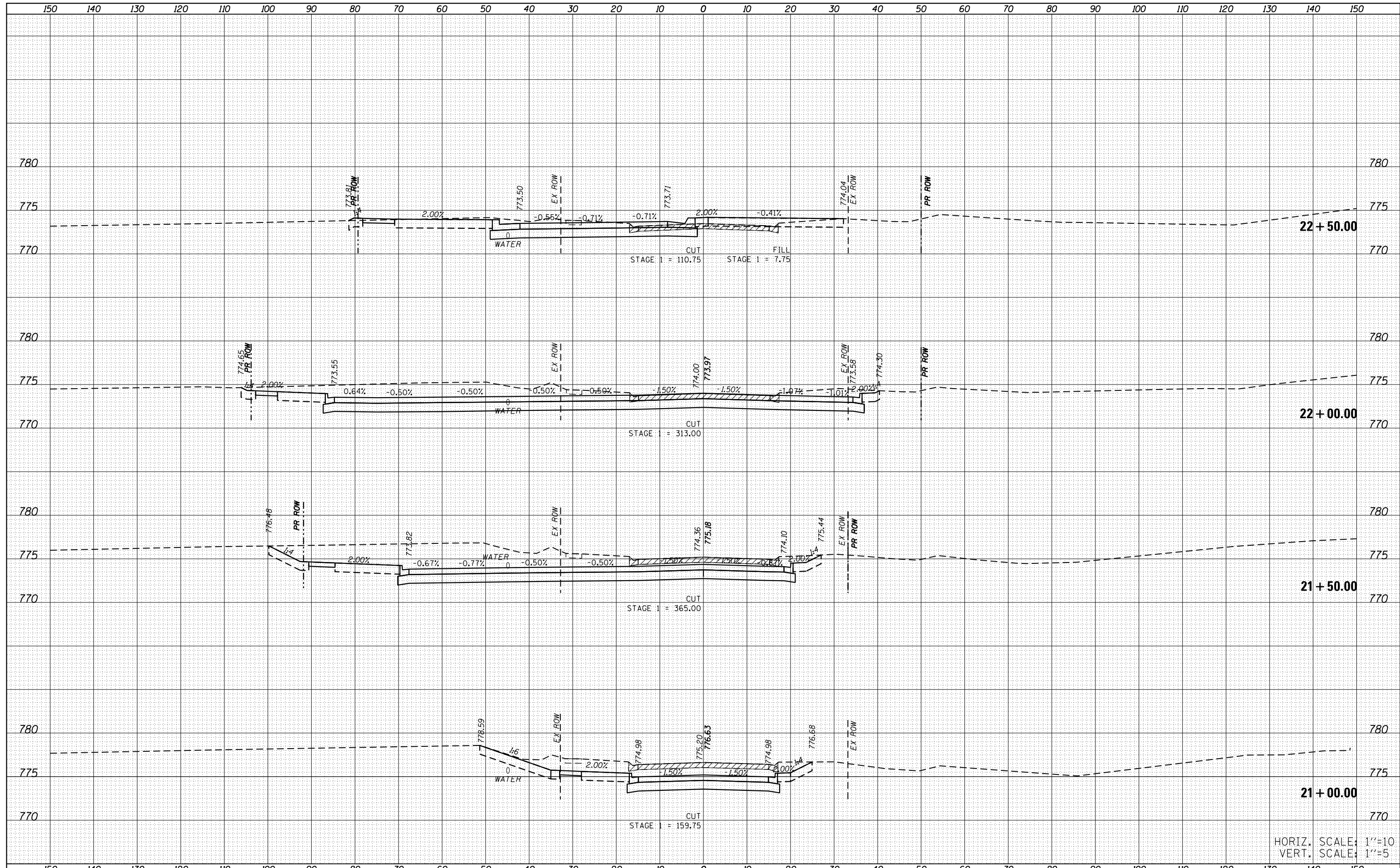


164 + 00.00
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemory	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS U.S. 150				F.A.I. RTE. 57	SECTION (10-34HB)BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 147	SHEET NO. 143
Default	PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 164+00.00	TO STA. 164+00.00	CONTRACT NO. 70B98		
	PLOT DATE = 5/6/2019 - 2:58:11 PM	DATE - 04/16/2019	REVISED -		ILLINOIS FED. AID PROJECT								

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



HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME = D570898-sht-xsc-midwestct.dgn
Default

USER NAME = bemory	DESIGNED - CWW	REVISED -
	DRAWN - CWW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BJE	REVISED -
PLOT DATE = 5/6/2019 - 2:58:32 PM	DATE - 04/16/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MIDWEST COURT**

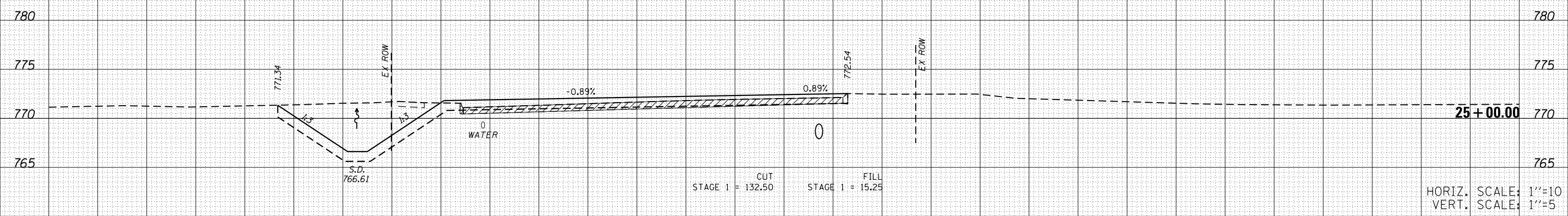
SCALE: SHEET OF SHEETS STA. 21+00.00 TO STA. 22+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	145
			CONTRACT NO.	70B98
ILLINOIS FED. AID PROJECT				

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

DATE	
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FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	



HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-midwestct.dgn

USER NAME = bemory
DESIGNED - CWW
DRAWN - CWW
CHECKED - BJE
DATE - 04/16/2019

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REVISIED -
REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MIDWEST COURT**

SCALE: SHEET OF SHEETS STA. 25+00.00 TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	147
CONTRACT NO. 70B98			ILLINOIS FED. AID PROJECT	