

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN UNINCORPORATED CHANNAHON AND WILMINGTON TOWNSHIPS

**DESIGN/POSTED SPEED**

BLODGETT RD: DESIGN & POSTED SPEED LIMIT: 45 MPH  
 FAI 55: DESIGN SPEED: 70 MPH, POSTED SPEED: 65 MPH

**TRAFFIC DATA**

BLODGETT ROAD ADT: 1150 (2012)  
 FAI 55 ADT: 53,800 (2011)

**DESIGN DESIGNATION**

BLODGETT RD: RURAL LOCAL ROAD  
 FAI 55: INTERSTATE

**PROJECT DESCRIPTION**

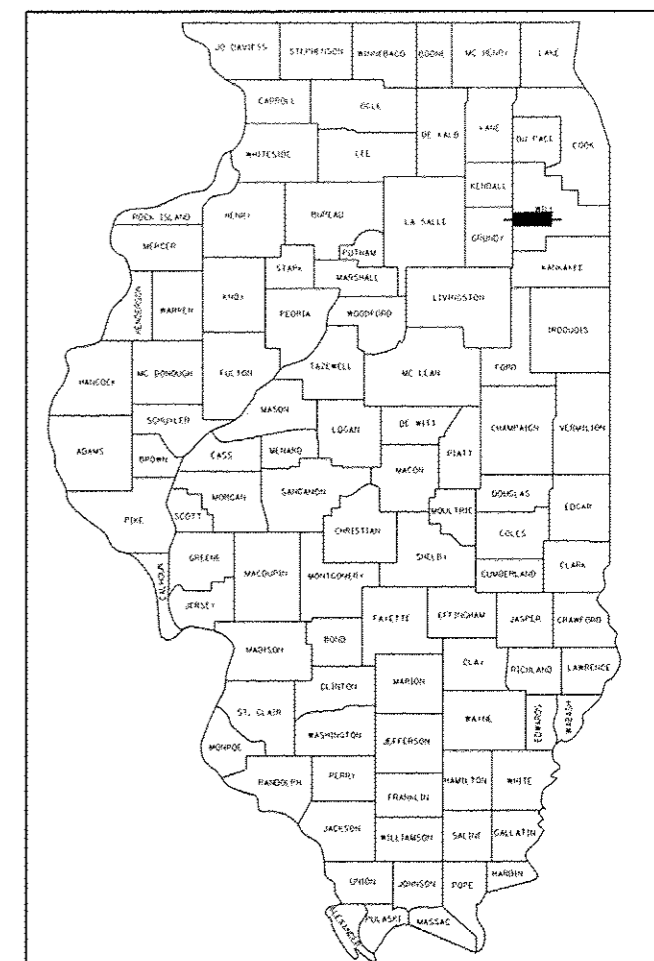
THIS PROJECT INCLUDES: THE DEMOLITION OF THE EXISTING BLODGETT ROAD BRIDGE OVER FAI 55; THE REPLACEMENT OF THE BLODGETT ROAD OVER GRANT CREEK BRIDGE DECK; AND CONSTRUCTION OF EMERGENCY ACCESSSES.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROPOSED  
 HIGHWAY PLANS**

F.A.I. ROUTE 55 (INTERSTATE-55)  
 AT BLODGETT ROAD AND  
 BLODGETT ROAD OVER GRANT CREEK  
 SECTION 99-2HB-31-3  
 PROJECT: ACNHPP-ACF-0055(407)  
 BRIDGE REMOVAL & BRIDGE REHABILITATION  
 WILL COUNTY

F.A.I. RY.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	1
ILLINOIS CONTRACT NO.			60X60	

D-91-148-14



LOCATION OF SECTION INDICATED THUS: - [rectangle] -

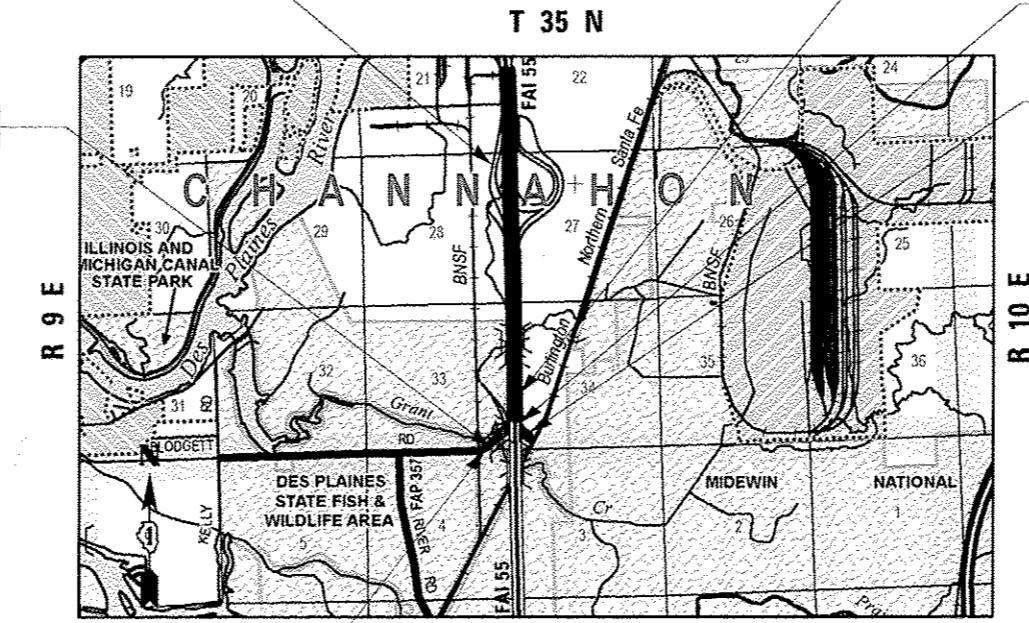
EMERGENCY ACCESS  
 RAMP C STA. 2013 + 90.74

EXISTING TEMPORARY  
 EMERGENCY ACCESS  
 FAI 55 STA. 1408 + 91.74

EXIST SN 099-0182

PROJECT BEGINS  
 BLODGETT ROAD  
 STA. 42 + 24.13

EXISTING SN 099-0181



C-91-148-14

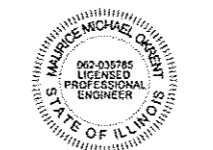
T 35 N  
 LOCATION MAP  
 (N.T.S.)

GROSS LENGTH = 1755.87 FT. = 0.333 MILE  
 NET LENGTH = 1755.87 FT. = 0.333 MILE

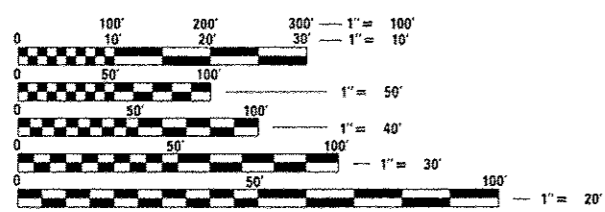
PROJECT ENDS  
 BLODGETT ROAD  
 STA. 59 + 80.00



SIGNATURE: [Signature]  
 DATE: 06/07/2013  
 EXPIRES: 11/30/2014  
 FEE/RENEWALS: \$1 Thru \$20



SIGNATURE: [Signature]  
 DATE: 10/15/13  
 EXPIRES: 11/30/14  
 FEE/RENEWALS: All Other



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

PROJECT MANAGER: HELEN G. PAZON  
 (847) 705-4523

CONTRACT NO. 60X60

**BLOOM**  
 COMPANIES, LLC  
 Infrastructure Innovation and Ingenuity

600 W. Fulton Street  
 Suite 701  
 Chicago, Illinois 60661  
 Phone: (312) 876-9500  
 Fax: (312) 876-9600

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED January 20, 2014

John Putnam, PE  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9, 2014  
John J. Baranzelli, PE, EIT  
 ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2014  
Chris Corman, PE, EIT  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS



90% FED,  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				STP ACE	NHPP ACNHPP	NHPP ACNHPP
				ROADWAY	BRIDGE	BRIDGE
				0004	0014	0014
				RURAL	S. N. 099-0181	S. N. 099-0182
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	337	337		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	230	230		
20101000	TEMPORARY FENCE	FOOT	4420	4420		
20200100	EARTH EXCAVATION	CU YD	8606	8606		
20200200	ROCK EXCAVATION	CU YD	10	10		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	200	200		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	200	200		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1617	1617		
25000210	SEEDING, CLASS 2A	ACRE	0.60	0.60		
25000310	SEEDING, CLASS 4	ACRE	1.98	1.98		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	57	57		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	57	57		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	57	57		
25100105	MULCH, METHOD 1	ACRE	1.0	1.0		

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14



USER NAME = tbergew	DESIGNED - MMO	REVISED -
PLOT SCALE = 2.0000" = 1' IN.	DRAWN - BL	REVISED -
PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	3
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

90% FED.  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				STP ACF ROADWAY	NHPP ACNHPP BRIDGE	NHPP ACNHPP BRIDGE
				0004 RURAL	0014 S.N. 099-0181	0014 S.N. 099-0182
25100115	MULCH, METHOD 2	ACRE	3.1	3.1		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4704	4704		
25100900	TURF REINFORCEMENT MAT	SQ YD	220	220		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	258	258		
28000305	TEMPORARY DITCH CHECKS	FOOT	64	64		
28000400	PERIMETER EROSION BARRIER	FOOT	3005	3005		
28000500	INLET AND PIPE PROTECTION	EACH	6	6		
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4704	4704		
28100105	STONE RIPRAP, CLASS A3	SQ YD	20	20		
28100109	STONE RIPRAP, CLASS A5	SQ YD	1005		1005	
28200200	FILTER FABRIC	SQ YD	937		937	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	5199	5199		
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	105	105		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20	20		

FILE NAME: F:\3-1219\_Bloodgate\Bldg\road\CAD\ESheet\101820-36-A1-500.dwg

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USER NAME = George	DESIGNED - MMO	REVISED -
DRAWN - BL	CHECKED - LSA	REVISED -
PLT SCALE = 2.0000 1" = 10'	DATE = 12/4/2013	REVISED -
PLT DATE = 3/21/2014		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: NTS	SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-248-31-3	WILL	87	4
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

90% FED,  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				STP ACB	NHPP ACNHPP	NHPP ACNHPP			
				ROADWAY	BRIDGE	BRIDGE			
				0004	0014	0014			
				RURAL	S. N. 099-0181	S. N. 099-0182			
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	30	30					
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	322	322					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	129	129					
40701826	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7 1/4"	SQ YD	1043	1043					
40701941	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"	SQ YD	2094	2094					
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	66	66					
44000100	PAVEMENT REMOVAL	SQ YD	5915	5915					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	692	692					
44000400	GUTTER REMOVAL	FOOT	1242	1242					
44004000	PAVED DITCH REMOVAL	FOOT	110	110					
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SQ YD	40	40					
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	40	40					
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	40	40					
48101202	AGGREGATE SHOULDERS, TYPE B	CU YD	406	406					

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USER NAME = hborger	DESIGNED - MMO	REVISED -
PLOT SCALE = 2,000' / 1" =	DRAWN - BL	REVISED -
PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NTS      SHEET 3      OF 9      SHEETS      STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	5
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP ACE	NHPP ACNHPP	NHPP ACNHPP	
				ROADWAY	BRIDGE	BRIDGE	
				0004	0014	0014	
				RURAL	S.N. 099-0181	S.N. 099-0182	
48203026	HOT-MIX ASPHALT SHOULDERS, 7 1/4"	SQ YD	341	341			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	656	656			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1	
50102400	CONCRETE REMOVAL	CU YD	44.6		44.6		
50104650	SLOPE WALL REMOVAL	SQ YD	1009		1009		
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1		1		
50105220	PIPE CULVERT REMOVAL	FOOT	213	213			
50157300	PROTECTIVE SHIELD	SQ YD	730			730	
50200100	STRUCTURE EXCAVATION	CU YD	89		89		
* 50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3	3			
50300225	CONCRETE STRUCTURES	CU YD	53		53		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	228.3		228.3		
50300260	BRIDGE DECK GROOVING	SQ YD	509		509		
50300300	PROTECTIVE COAT	SQ YD	576		576		

\* Specialty Items



USER NAME = sboerge	DESIGNED - MMO	REVISED -
PLOT SCALE = 2:8000 1/4" = 1"	DRAWN - BL	REVISED -
PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	6
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

90% FED.  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				STP AC ROADWAY 0004 RURAL	NHPP ACNHPP BRIDGE 0014 S.N. 099-0181	NHPP ACNHPP BRIDGE 0014 S.N. 099-0182			
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5280		5280				
50500505	STUD SHEAR CONNECTORS	EACH	1890		1890				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57020		57020				
50901050	STEEL RAILING, TYPE SM	FOOT	272		272				
51500100	NAME PLATES	EACH	1		1				
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	21		21				
52100505	ANCHOR BOLTS, 5/8"	EACH	14		14				
52100520	ANCHOR BOLTS, 1"	EACH	28		28				
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	192	192					
54215547	METAL END SECTIONS 12"	EACH	3	3					
54246205	INLET BOX, STANDARD 542526	EACH	1	1					
54261624	CONCRETE END SECTION, STANDARD 542001, 24", 1:6	EACH	3	3					
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	62		62				
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	4	4				

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PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 5	OF 9 SHEETS	STA. TO STA.

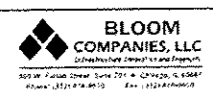
F.A.I. RTE. 55	SECTION 99-2HB-31-3	COUNTY WILL	TOTAL SHEETS 87	SHEET NO. 7
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

90% FED,  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				STP ACF	NHPP ACNHPP	NHPP ACNHPP
				ROADWAY	BRIDGE	BRIDGE
				0004	0014	0014
				RURAL	S. N. 099-0181	S. N. 099-0182
60100945	PIPE DRAINS 12"	FOOT	78	78		
60107600	PIPE UNDERDRAINS 4"	FOOT	96	96		
60403500	GRATES, TYPE B	EACH	1	1		
60500060	REMOVING INLETS	EACH	2	2		
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	1.7	1.7		
60602800	CONCRETE GUTTER, TYPE B	FOOT	111	111		
60900515	CONCRETE THRUST BLOCKS	EACH	3	3		
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	2	2		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1150	1150		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	3203	3203		
63500105	DELINEATORS	EACH	26	26		

\* Specialty Hems

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PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE: NTS	SHEET 6 OF 9 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	8
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



90% FED.  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				STP AC	NHPP AC/NHPP	NHPP AC/NHPP
				ROADWAY	BRIDGE	BRIDGE
				0004	0014	0014
				RURAL	S. N. 099-0181	S. N. 099-0182
66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	57	57		
66400305	CHAIN LINK FENCE, 6'	FOOT	105	105		
66500105	WOVEN WIRE FENCE, 4'	FOOT	158	158		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1700	1700		
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
67100100	MOBILIZATION	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	7	7		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	107	107		
* 72000200	SIGN PANEL - TYPE 2	SQ FT	10	10		
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	97	97		
* 72900100	METAL POST - TYPE A	FOOT	213	213		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5589	5589		

\* Specialty Items

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USER NAME = dbriggs	DESIGNED - MMO	REVISED -
PLOT SCALE = 2,000 1" = 100'	DRAWN - BL	REVISED -
PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE = 12/4/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE: NTS	SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	9
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

Rev.

90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				STP ACF ROADWAY 0004 RURAL	NHPP ACNHPP BRIDGE 0014 S. N. 099-0181	NHPP ACNHPP BRIDGE 0014 S. N. 099-0182
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11589	11589		
⊙ X5420618	PIPE CULVERTS TO BE CLEANED 18"	FOOT	230	230		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	67		67	
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	2	2		
X6640308	CHAIN LINK GATES (SPECIAL)	EACH	1	1		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X7010410	SPEED DISPLAY TRAILER	CAL MD	2	2		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1		
XX006223	PERIMETER EROSION BARRIER - MODIFIED	FOOT	1360	1360		
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	21		21	
Z0001904	STRUCTURAL STEEL REMOVAL	L SUM	1		1	
* Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1		1	
* Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	34		34	

15

\* Specialty Items  
⊙ 100% STATE (NP)

P.L.E. NAME = F:\3\1319\_Bldg\1\10-2013\1\10-2013\Sheets\10160236.plt-500.dgn



USER NAME = kborger	DESIGNED - MMO	REVISED -
PLOT SCALE = 2.0000" = 1'-0"	DRAWN - BL	REVISED -
PLOT DATE = 3/21/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	10
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

Rev.

10/10/14

90% FED.  
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				STP ACF ROADWAY	NHPP ACNHPP BRIDGE	NHPP ACNHPP BRIDGE			
				0004 RURAL	0014 S.N. 099-0181	0014 S.N. 099-0182			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5				
Z0022800	FENCE REMOVAL	FOOT	75	75					
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	108		108				
Ø Z0076600	TRAINEES	HOUR	500	500					
Ø Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	500	500					

5 Ø0042

FILE NAME = F:\3-1219\_Blooms\3D-merge\3D\003\Sheets\N0169536-plt-500.dgn

**BLOOM COMPANIES, LLC**  
 2715 Industrial Center Dr  
 503 W. Fulton Street, Suite 701 • Chicago, IL 60607  
 Phone: (312) 474-1010 Fax: (312) 474-1011

USER NAME = tbarge	DESIGNED - NMO	REVISED -
PLOT SCALE = 2.0000 / 1" = 100'	DRAWN - BL	REVISED -
PLOT DATE = 3/31/2014	CHECKED - LSA	REVISED -
	DATE - 12/4/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	11
CONTRACT NO. 60X60				ILLINOIS FED. AID PROJECT

Rev.

**REMOVALS**

	44000100	44000158	44000400	44004000	Z0022800
	PAVEMENT REMOVAL (SQ. YD.)	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (SQ. YD.)	GUTTER REMOVAL (FOOT)	PAVED DITCH REMOVAL (FOOT)	FENCE REMOVAL (FOOT)
STATION TO STATION					
EAST FRONTAGE RD 1429+76 1431+07		692			
WEST FRONTAGE RD 1424+61 1431+22	2422		491	110	
BLODGETT RD 42+24 45+54	702		54		
45+00 45+53.54			293		
45+53.54 48+45.83	682		404		
50+96 55+00	922				
55+00 57+07	501				
58+11 59+80	397				
EX. EMERGENCY ACCESS	289				
RAMP C ACCESS					75
<b>TOTAL</b>	<b>5915</b>	<b>692</b>	<b>1242</b>	<b>110</b>	<b>75</b>

**PAVEMENT MARKING**

	63500105 DELINEATORS (EACH)	78000200 THERMOPLASTIC PAVEMENT MARKING LINE 4" (FOOT)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
BLODGETT RD & W FRONTAGE RD WEST OF 55			
56+62.43 TO 59+80.00	8	1271	2
148+80.00 TO 156+62.43	18	3130	2
BLODGETT RD & E FRONTAGE RD EAST OF 55			
1429+76.00 TO 1431+17.00		564	
42+24.13 TO 43+80.00		624	
<b>TOTAL</b>	<b>26</b>	<b>5589</b>	<b>4</b>

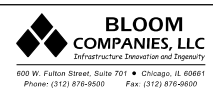
**CONTINGENCY ITEMS**

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	20200200 ROCK EXCAVATION (CU YD)	20700220 POROUS GRANULAR EMBANKMENT (CU YD)	40201000 AGGREGATE FOR TEMPORARY ACCESS (TON)	44201773 CLASS D PATCHES, TYPE I, 11 INCH (SQ YD)	44201777 CLASS D PATCHES TYPE II, 11 INCH (SQ YD)	44201781 CLASS D PATCHES, TYPE III, 11 INCH (SQ YD)	50200400 ROCK EXCAVATION FOR STRUCTURES (CU YD)
200	10	200	20	40	40	40	3

**PAVING**

STATION TO STATION	30300112 AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)	31102000 SUBBASE GRANULAR MATERIAL, TYPE C (CU YD)	X4060110 BITUMINOUS MATERIALS (PRIME COAT) (POUND)	40600635 LEVELING BINDER (MACHINE METHOD) N70 (TON)	40603085 HOT-MIX ASPHALT BINDER COURSE IL-19.0, N70 (TON)	40603340 HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70 (TON)	40701826 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 7 1/4" (SQ YD)	40701941 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 13" (SQ YD)	42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) (SQ YD)	48101202 AGGREGATE SHOULDERS, TYPE B (CU YD)	48203026 HOT-MIX ASPHALT SHOULDERS 7 1/4" (SQ YD)	48203029 HOT-MIX ASPHALT SHOULDERS 8" (SQ YD)	60602800 CONCRETE GUTTER, TYPE B (FOOT)	66101150 HOT-MIX ASPHALT SHOULDER CURB (FOOT)
EAST FRONTAGE RD 1429+76.00 1431+07.40			468	30		59								
BLODGETT RD 42+24.13 45+53.54	1106		1980				733			37	228			
WEST FRONTAGE RD / BLODGETT CONNECTOR														
148+80.00 149+90.88	407	8	904					309		17			111	
149+90.88 155+10.14	1962	73	4052					1385		154			462	
155+10.14 155+60.14	184	7	375					128		15			45	
156+60.14 156+62.43	364	15	735					251		31			91	
BLODGETT RD 56+62.43 56+70.83	31	2	62					21		2			8	
56+70.83 56+77.30	24		65						22	2				
58+40.45 58+53.59	48		119						44	4				27
58+53.59 59+80.00	453		837				310			30	113			30
EX. EMERGENCY ACCESS	263		711		118	30				57				
RAMP C EMERGENCY ACCESS	357		964		160	40				57				
EX. MEDIAN CROSS-OVER			317		44									
<b>TOTALS</b>	<b>5199</b>	<b>105</b>	<b>11589</b>	<b>30</b>	<b>322</b>	<b>129</b>	<b>1043</b>	<b>2094</b>	<b>66</b>	<b>406</b>	<b>341</b>	<b>656</b>	<b>111</b>	<b>57</b>

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>	
SCALE:	SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	12
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	



**DRAINAGE**

	50105220	542A0229	54215547	54246205	54261624	60100060	60100945	60107600	60403500	60500060	60600095	60900515	61000335	X5420618	Z0046304
STATION TO STATION	PIPE CULVERT REMOVAL (FOOT)	PIPE CULVERTS CLASS A TYPE 1, 24" (EACH)	METAL END SECTIONS 12" (EACH)	INLET BOX STANDARD 542526 (EACH)	CONCRETE END SECTION, STD 542001, 24", 1:6 (EACH)	CONCRETE HEADWALLS FOR PIPE DRAINS (EACH)	PIPE DRAIN 12" (FOOT)	PIPE UNDERDRAINS 4" (FOOT)	GRATES, TYPE B (EACH)	REMOVING INLETS (EACH)	CLASS SI CONCRETE OUTLET (CU YD)	CONCRETE THRUST BLOCKS (EACH)	TYPE G INLET BOX STANDARD 610001 (EACH)	PIPE CULVERTS TO BE CLEANED 18" (FOOT)	PIPE UNDERDRAIN FOR STRUCTURES 4" (FOOT)
BLODGETT ROAD															
55+01.00 LT	47									1					
57+10.00 LT						1									27
57+10.00 RT						1									27
58+10.00 LT						1									27
58+10.00 RT						1									27
58+61.09 LT			1				28				1	1			
58+61.09 RT			1				30				1	1			
WEST FRONTAGE															
149+90.00 RT			1				20		1		1.7	1			
150+00.00RT & LT						2		48							
150+23.00 RT	20														
150+67.00 RT	22									1					
152+00.00 RT & LT						2		48							
EX. EMERGENCY ACCESS	124	160		1	1										
RAMP C EMERGENCY ACCESS		32			2										
BLODGETT OVER I-55 EAST SIDE SLOPE														115	
BLODGETT OVER I-55 WEST SIDE SLOPE														115	
TOTALS	213	192	3	1	3	8	78	96	1	2	1.7	3	2	230	108

**EARTHWORK**

1 LOCATION	2 20200100 EARTH EXCAVATION CUBIC YARD	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE* CUBIC YARD	4 EMBANKMENT CUBIC YARD	5 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD
WEST FRONTAGE				
Sta. 148+80.00 to 156+62.43	6742	5731	3951	1780
BLODGETT ROAD				
Sta. 42+25.00 to 45+53.00	165	141	7	134
END RECONSTRUCTION				
Sta. 45+53.00 to 48+45.83	308	262	0	262
BRIDGE OMISSION				
Sta. 50+95.41 to 52+29	246	210	0	210
W. FRONTAGE RD. OMISSION				
Sta. 56+62.43 to 57+07.00	112	96	129	-33
BRIDGE OMISSION				
Sta. 58+10.63 to 59+80.00	1011	860	997	-137
EX. EMERGENCY TURNAROUND	0	0	340	-340
RAMP C EMERGENCY ACCESS	0	0	138	-138
EX. MEDIAN CROSS-OVER	22	19		19
TOTAL	8606	7319	5562	1757

\* ASSUMED SHRINKAGE FACTOR: 0.15

NOTE: CONTINGENCY QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND OF POROUS GRANULAR EMBANKMENT INCLUDED IN SUMMARY OF QUANTITIES. TO BE USED AS NEEDED AND DIRECTED BY ENGINEER.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	14
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

**EROSION AND SEDIMENT CONTROL & LANDSCAPING**

	PERMANENT											TEMPORARY							
	21101505 TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	25000210 SEEDING CLASS 2A (ACRE)	25000310 SEEDING CLASS 4 (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (POUND)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (POUND)	25000600 POTASSIUM FERTILIZER NUTRIENT (POUND)	25100115 MULCH METHOD 2 (ACRE)	25100635 HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)	25100900 TURF REINFORCE- MENT MAT (SQ YD)	28100105 STONE RIPRAP, CLASS A3 (SQ YD)	28100109 STONE RIPRAP, CLASS A5 (SQ YD)	20101000 TEMPORARY FENCE (FOOT)	25100115 MULCH METHOD 2 (ACRE)	28000250 TEMPORARY EROSION CONTROL SEEDING (POUND)	28000305 TEMPORARY DITCH CHECK (FOOT)	28000400 PERIMETER EROSION BARRIER (FOOT)	28000500 INLET AND PIPE PROTECTION (EACH)	28001200 TEMP. HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)	XX006223 PERIMETER EROSION BARRIER - MODIFIED (FOOT)
E. FRONTAGE RD											320								
BLODGETT ROAD	49						0.08					0.08	8		470				
42+24.13 45+53.54	163	0.08		8	8	8	0.26				200	0.26	26		590	1			
45+53.54 48+45.83	149		0.26				0.24				250	0.24	24		400				
50+95.49 53+29			0.24																180
FAI 55 AT BRIDGE																			
EAST SIDE SLOPE	31		0.05					234			490		5		100			234	
MEDIAN	47	0.07		7	7	7	0.07					0.07	7						
WEST SIDE SLOPE	27		0.05					206			560		5		100			206	
BLODGETT ROAD																			
58+10.63 60+00	147		0.24					1124		10	600		24		70	2	1124	480	
W. FRONTAGE RD																			
148+80.00 157+07.12	816	0.15	1.14	14	14	14	0.81	2130	220		2000	0.81	129		1000	3	2130	700	
EX. EMERGENCY ACCESS	115	0.18		17	17	17		883					18	32				883	
RAMP C EMERGENCY ACCESS	74	0.12		11	11	11	0.09	127		10		0.09	12	32	275			127	
BRIDGE OVER GRANT CREEK																			
EAST SLOPE											565								
WEST SLOPE											440								
TOTALS	1617	0.60	1.98	57	57	57	1.55	4704	220	20	1005	4420	1.55	258	64	3005	6	4704	1360

\* COMPUTED BY 4" TOPSOIL  
PLACED WITHOUT REGARD  
TO WHERE EXCAVATED AND  
THEN SHRINKAGE FACTOR  
0.15 APPLIED.

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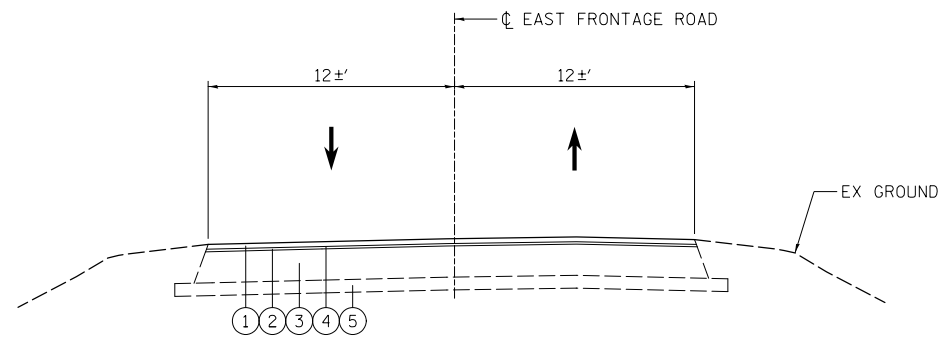


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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 4	OF 4 SHEETS	STA. TO STA.

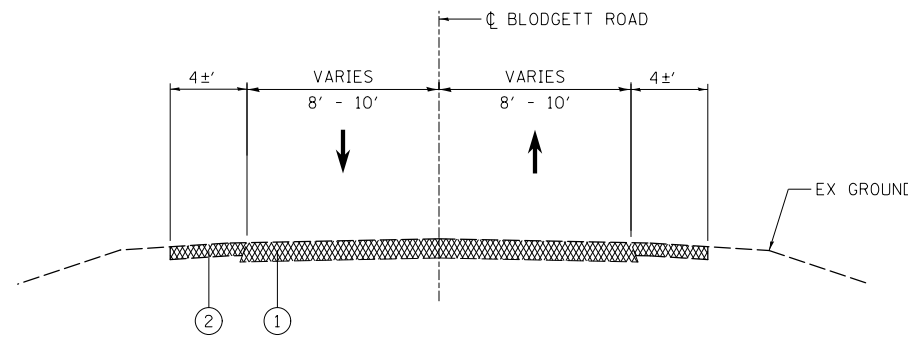
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	15
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION  
EAST FRONTAGE RD.**

(RESURFACE)  
STA. 1429+76.00 TO STA. 1431+07.40

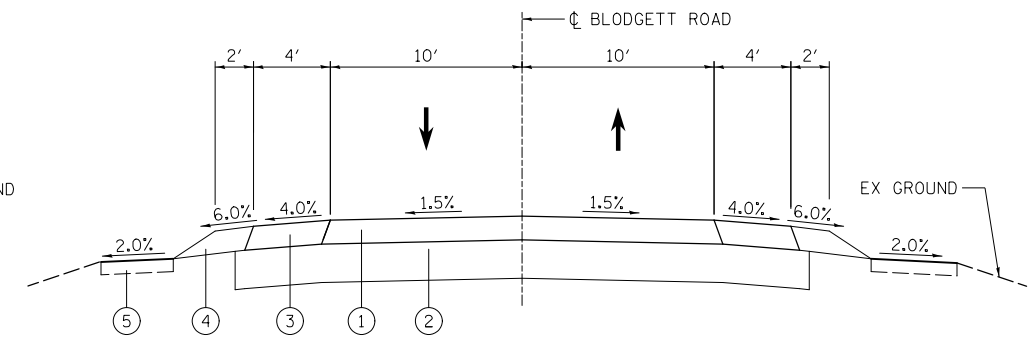
- ① 1 1/2" HMA SURFACE COURSE
- ② 3/4" LEVELING BINDER (MACHINE METHOD)
- ③ EXISTING PAVEMENT 13" HMA
- ④ 2 1/4" HOT-MIX ASPHALT SURFACE REMOVAL
- ⑤ EXISTING SUB-BASE GRANULAR



**EX. TYPICAL SECTION  
BLODGETT RD.**

(REMOVE & RECONSTRUCT)  
STA. 42+24.13 TO STA. 45+53.54

- ① EXISTING HMA PAVEMENT (4 1/2" & VARIES) - (TO BE REMOVED)
- ② AGGREGATE SHOULDER



**TYPICAL SECTION  
BLODGETT RD.**

(RECONSTRUCT)  
STA. 42+24.13 TO STA. 45+53.54

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) , 7 1/4"
- ② 12" AGGREGATE SUBGRADE IMPROVEMENT
- ③ HOT-MIX ASPHALT SHOULDERS, 7 1/4"
- ④ AGGREGATE SHOULDERS, TYPE B
- ⑤ TOPSOIL PLACEMENT, 4"

PAY ITEM	UNIT	MIX TYPE	DESIGN AIR Voids(%) @ N <sub>60</sub>	LIFT THICKNESS	QMP
<b>PAVEMENT RESURFACING - EAST FRONTAGE RD</b>					
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	IL 9.5 mm	4% @ 70 GYR.	1 1/2"	Qc/Qa
HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N70	TON	IL 9.5 mm	4% @ 70 GYR.	3/4"	Qc/Qa
CLASS D PATCHES, - (HMA BINDER IL-19.0)	SQ YD		4% @ 70 GYR.	11"	Qc/Qa
<b>WEST FRONTAGE RD &amp; BLODGETT RD (W. OF GRANT CREEK) HOT-MIX ASPHALT PAVEMENT (FULL -DEPTH), 13"</b>					
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		IL 9.5 mm	4% @ 70 GYR.	2"	Qc/Qa
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70			4% @ 70 GYR.	11"	Qc/Qa
HOT-MIX ASPHALT SHOULDER, 8"					
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		IL 9.5 mm	4% @ 70 GYR.	2"	Qc/Qa
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70			4% @ 70 GYR.	6"	Qc/Qa
<b>BLODGETT RD (E. OF I-55) HOT-MIX ASPHALT SHOULDERS, 7 1/4"</b>					
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		IL 9.5 mm	4% @ 70 GYR.	2"	Qc/Qa
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70			4% @ 70 GYR.	5 1/4"	Qc/Qa
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7 1/4"	SQ YD				
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		IL 9.5 mm	4% @ 70 GYR.	2"	Qc/Qa
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70			4% @ 70 GYR.	5 1/4"	Qc/Qa
<b>EMERGENCY ACCESS ROADS</b>					
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	IL 9.5 mm	4% @ 70 GYR.	2"	Qc/Qa
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON		4% @ 70 GYR.	8"	Qc/Qa
<b>EX. MEDIAN CROSS-OVER</b>					
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON		4% @ 70 GYR.	6"	Qc/Qa

**WEIGHT NOTE:**

THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

**AC TYPE NOTE**

THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

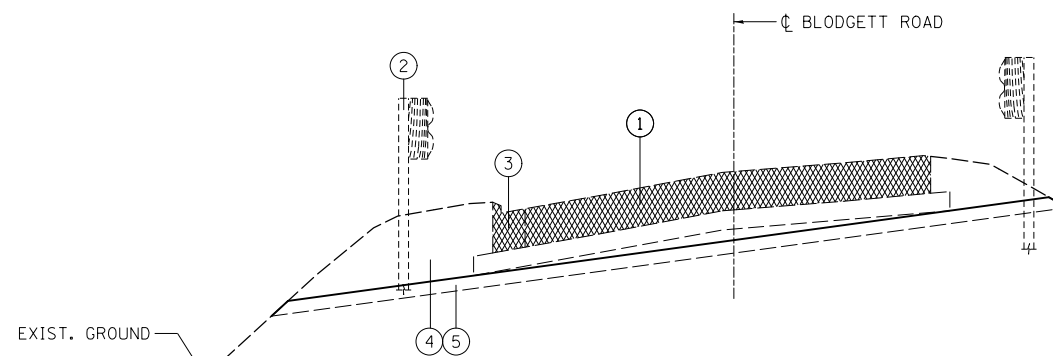
FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

**MISC. NOTES:**

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

FOR HMA FULL DEPTH "AC TYPE", SEE SPECIAL PROVISIONS.

CONTRACTOR SHALL MILL BEFORE PATCHING.



**EX. TYPICAL SECTION BLODGETT ROAD**

(REMOVE PAVEMENT)  
STA. 45+53.54 TO STA. 48+45.83  
STA. 50+95.41 TO STA. 52+50.00  
BRIDGE OMISSION STA. 48+45.83 TO 50+95.41

- ① EXISTING HMA PAVEMENT, 4 1/2" AND VARIES (TO BE REMOVED)
- ② EXISTING GUARDRAIL (TO BE REMOVED)
- ③ EXISTING CURB (TO BE REMOVED)
- ④ EARTH EXCAVATION (FINAL GRADE AS NEEDED BY CONTRACTOR)
- ⑤ TOPSOIL PLACEMENT, 4"

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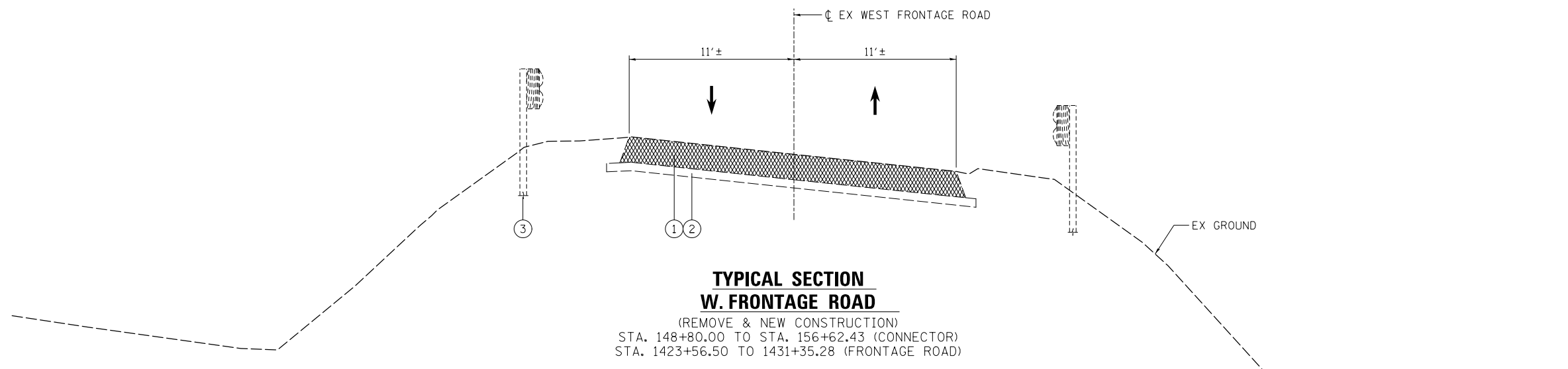
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

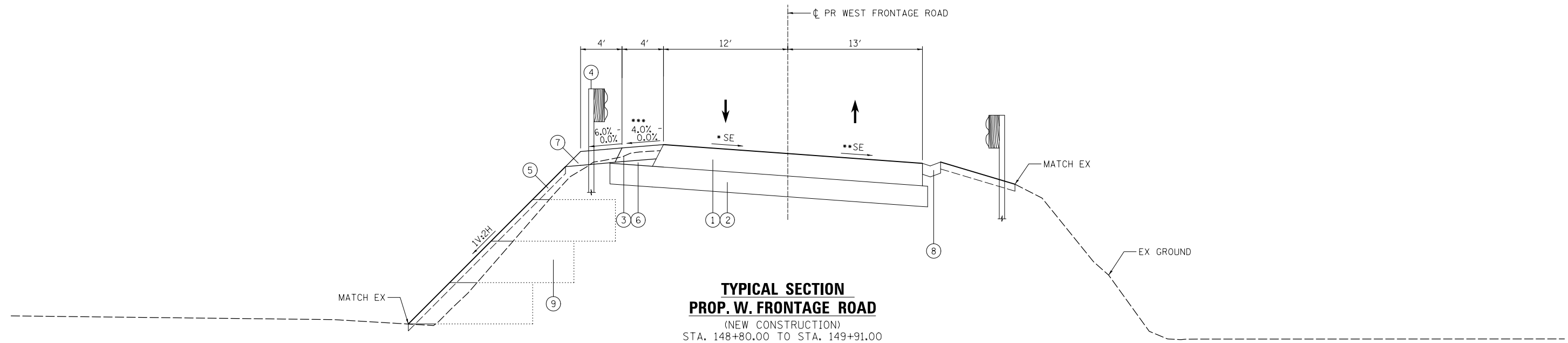




**TYPICAL SECTION  
W. FRONTAGE ROAD**

(REMOVE & NEW CONSTRUCTION)  
STA. 148+80.00 TO STA. 156+62.43 (CONNECTOR)  
STA. 1423+56.50 TO 1431+35.28 (FRONTAGE ROAD)

- ① EXISTING PAVEMENT, 13" HMA (TO BE REMOVED)
- ② EXISTING AGGREGATE
- ③ STEEL PLATE BEAM GUARDRAIL (TO BE REMOVED)



**TYPICAL SECTION  
PROP. W. FRONTAGE ROAD**

(NEW CONSTRUCTION)  
STA. 148+80.00 TO STA. 149+91.00

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"
- ② 12" AGGREGATE SUBGRADE IMPROVEMENT
- ③ HOT-MIX ASPHALT SHOULDERS, 8"
- ④ STEEL PLATE BEAM GUARDRAIL
- ⑤ TOPSOIL PLACEMENT, 4"
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE C
- ⑦ AGGREGATE SHOULDERS, TYPE B  
BEGIN LT SIDE @ STA. 148+90.00  
BEGIN RT SIDE @ STA. 149+91.00
- ⑧ TYPE B GUTTER  
FROM STA. 148+80.00 TO STA. 149+91.00
- ⑨ REFER TO IDOT STANDARD BD-51, "BENCHING  
DETAIL FOR EMBANKMENT WIDENING"

**\*SUPERELEVATION TRANSITIONS**

STA.	TO	STA.	SE RATE (%)
148+80.00	148+90.09	148+90.09	MATCH - 0.08
148+90.09	149+50.06	149+50.06	VARIES: 0.08 - 0.07
149+50.06	154+58.34	154+58.34	0.07

\*\*\* MAX. ROLLOVER 8.0%

**\*\*SUPERELEVATION TRANSITIONS**

STA.	TO	STA.	SE RATE (%)
148+80.00	148+90.09	148+90.09	MATCH - 0.08
148+90.09	149+50.06	149+50.06	VARIES: 0.08 - 0.07
149+50.06	154+58.34	154+58.34	0.07

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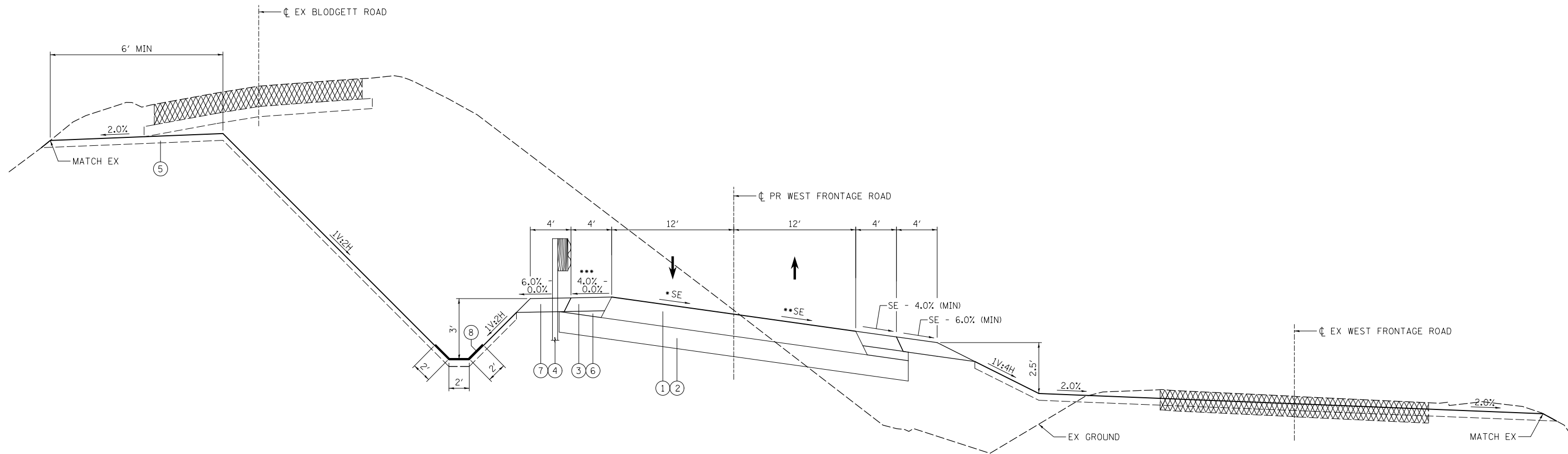
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-HB-31-3	WILL	87	17
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	



**TYPICAL SECTION**  
**PROP. W. FRONTAGE ROAD**  
 (NEW CONSTRUCTION)  
 STA. 149+91.00 TO STA. 154+50.00

**\*SUPERELEVATION TRANSITIONS**

STA.	TO	STA.	SE RATE ('/')
149+50.06		154+58.34	0.07

\*\*\* MAX. ROLLOVER 8.0%

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"
- ② 12" AGGREGATE SUBGRADE IMPROVEMENT
- ③ HOT-MIX ASPHALT SHOULDERS, 8"
- ④ STEEL PLATE BEAM GUARDRAIL
- ⑤ TOPSOIL PLACEMENT, 4"
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE C
- ⑦ AGGREGATE SHOULDERS, TYPE B
- ⑧ TURF REINFORCEMENT MAT

**\*\*SUPERELEVATION TRANSITIONS**

STA.	TO	STA.	SE RATE ('/')
149+50.06		154+58.34	0.07

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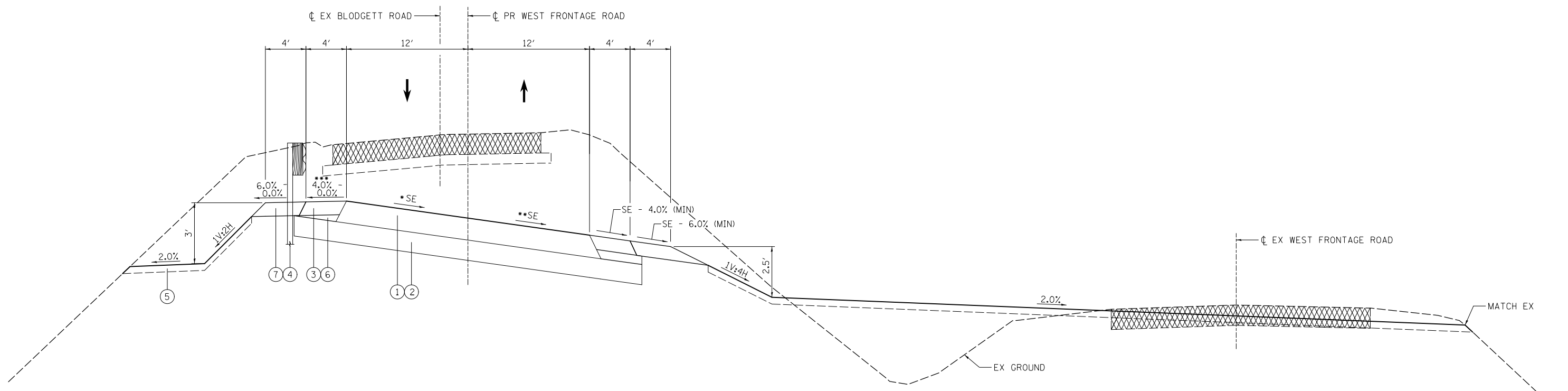
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-HB-31-3	WILL	87	18
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION**  
**PROP. W. FRONTAGE ROAD**  
 (NEW CONSTRUCTION)  
 STA. 154+50.00 TO STA. 155+10.14

**\*SUPERELEVATION TRANSITIONS**

STA.	TO	STA.	SE RATE ('/')
149+50.06	154+58.34	0.07	
154+58.34	156+47.04	VARIES: 0.07 TO NC	

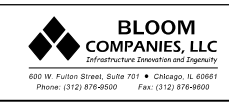
**\*\*\* MAX. ROLLOVER 8.0%**

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"
- ② 12" AGGREGATE SUBGRADE IMPROVEMENT
- ③ HOT-MIX ASPHALT SHOULDERS, 8"
- ④ STEEL PLATE BEAM GUARDRAIL
- ⑤ TOPSOIL PLACEMENT, 4"
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE C
- ⑦ AGGREGATE SHOULDERS, TYPE B

**\*\*SUPERELEVATION TRANSITIONS**

STA.	TO	STA.	SE RATE ('/')
149+50.06	154+58.34	0.07	
154+58.34	155+80.44	VARIES: 0.07 TO NC	

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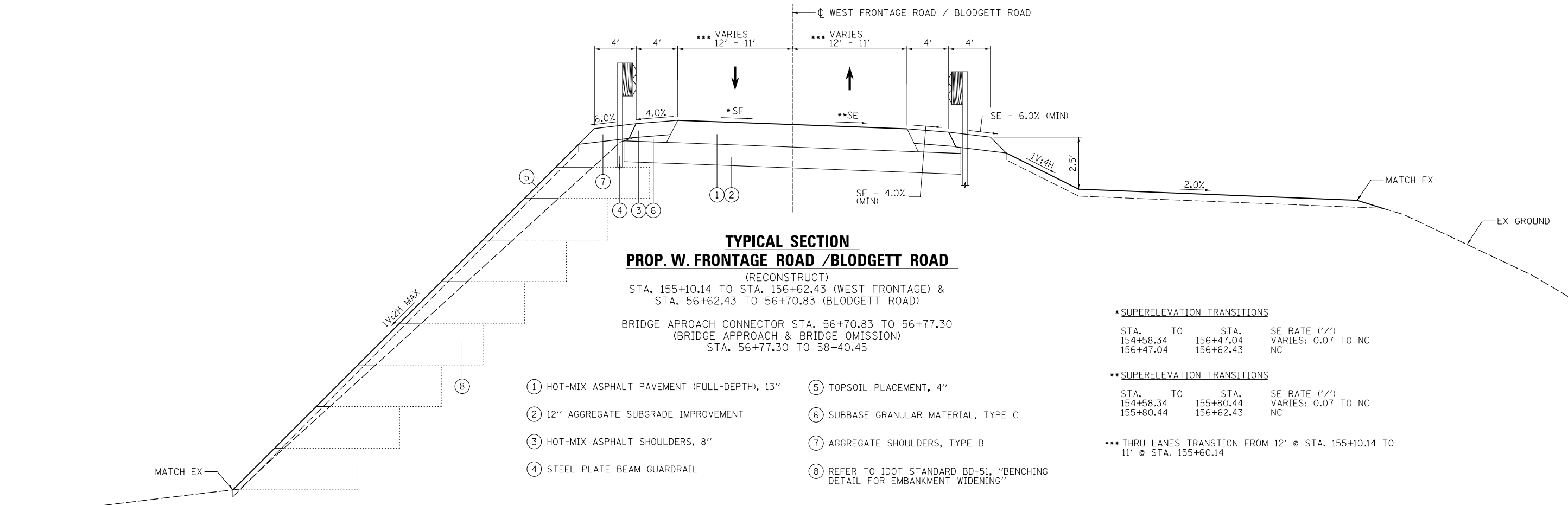


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	DRAWN - BL	REVISED -
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PLOT DATE = 3/31/2014	DATE - 9/25/2013	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.		SHEET 4 OF 5 SHEETS		STA.	TO STA.
		TYPICAL SECTIONS			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-HB-31-3	WILL	87	19
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION  
PROP. W. FRONTAGE ROAD / BLODGETT ROAD**  
(RECONSTRUCT)  
STA. 155+10.14 TO STA. 156+62.43 (WEST FRONTAGE) &  
STA. 56+62.43 TO 56+70.83 (BLODGETT ROAD)  
BRIDGE APPROACH CONNECTOR STA. 56+70.83 TO 56+77.30  
(BRIDGE APPROACH & BRIDGE OMISSION)  
STA. 56+77.30 TO 58+40.45

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"
- ② 12" AGGREGATE SUBGRADE IMPROVEMENT
- ③ HOT-MIX ASPHALT SHOULDERS, 8"
- ④ STEEL PLATE BEAM GUARDRAIL
- ⑤ TOPSOIL PLACEMENT, 4"
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE C
- ⑦ AGGREGATE SHOULDERS, TYPE B
- ⑧ REFER TO IDOT STANDARD BD-51, "BENCHING  
DETAIL FOR EMBANKMENT WIDENING"

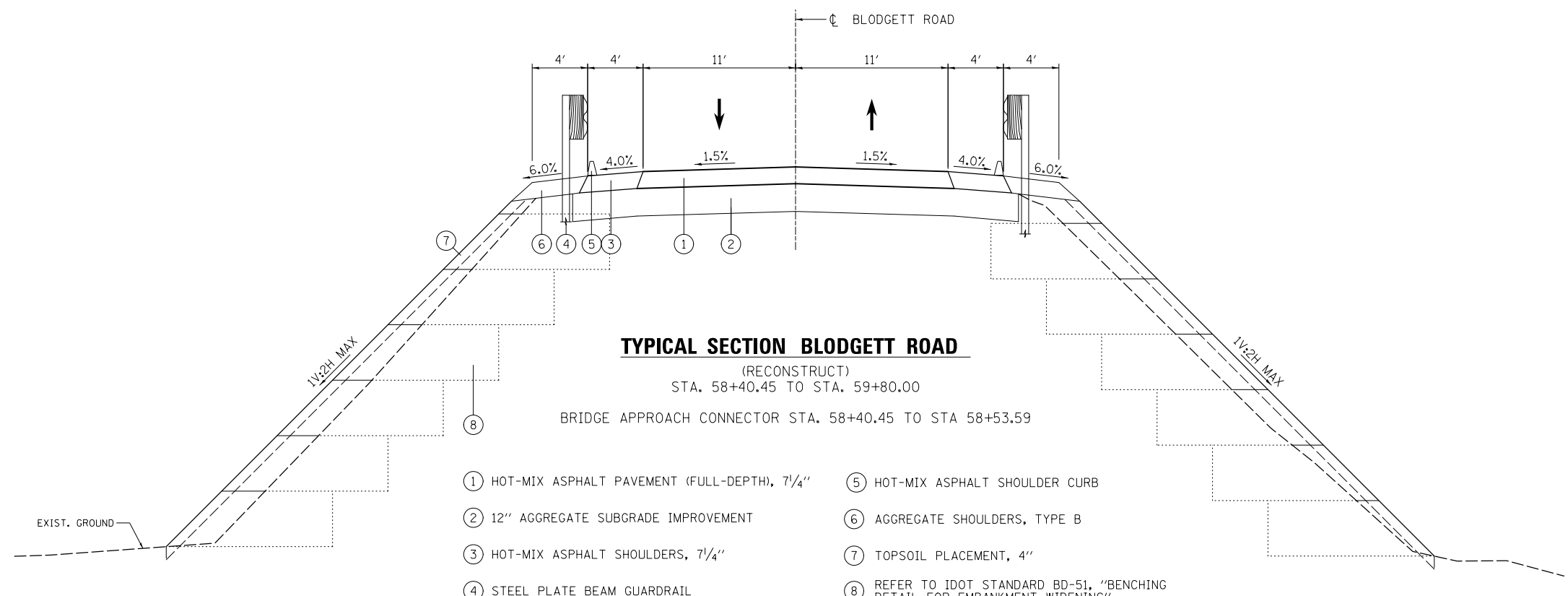
• SUPERELEVATION TRANSITIONS

STA.	TO	STA.	SE RATE ('/')
154+58.34	156+47.04	156+47.04	VARIES: 0.07 TO NC
156+47.04		156+62.43	NC

•• SUPERELEVATION TRANSITIONS

STA.	TO	STA.	SE RATE ('/')
154+58.34	155+80.44	155+80.44	VARIES: 0.07 TO NC
155+80.44		156+62.43	NC

••• THRU LANES TRANSITION FROM 12' @ STA. 155+10.14 TO 11' @ STA. 155+60.14



**TYPICAL SECTION BLODGETT ROAD**  
(RECONSTRUCT)  
STA. 58+40.45 TO STA. 59+80.00  
BRIDGE APPROACH CONNECTOR STA. 58+40.45 TO STA 58+53.59

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7 1/4"
- ② 12" AGGREGATE SUBGRADE IMPROVEMENT
- ③ HOT-MIX ASPHALT SHOULDERS, 7 1/4"
- ④ STEEL PLATE BEAM GUARDRAIL
- ⑤ HOT-MIX ASPHALT SHOULDER CURB
- ⑥ AGGREGATE SHOULDERS, TYPE B
- ⑦ TOPSOIL PLACEMENT, 4"
- ⑧ REFER TO IDOT STANDARD BD-51, "BENCHING  
DETAIL FOR EMBANKMENT WIDENING"

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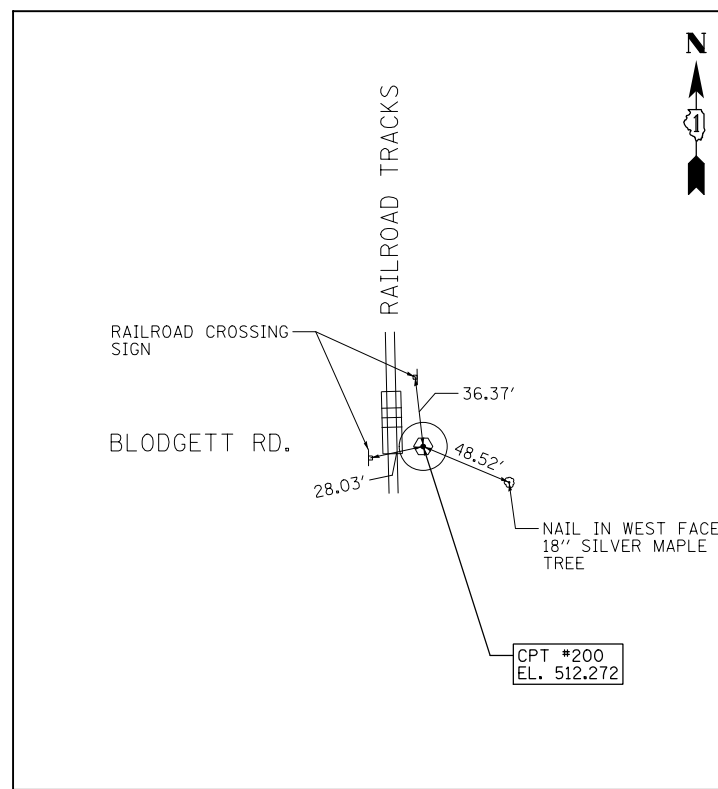
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	DRAWN - BL	REVISED -
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PLOT DATE = 3/31/2014	DATE - 9/25/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

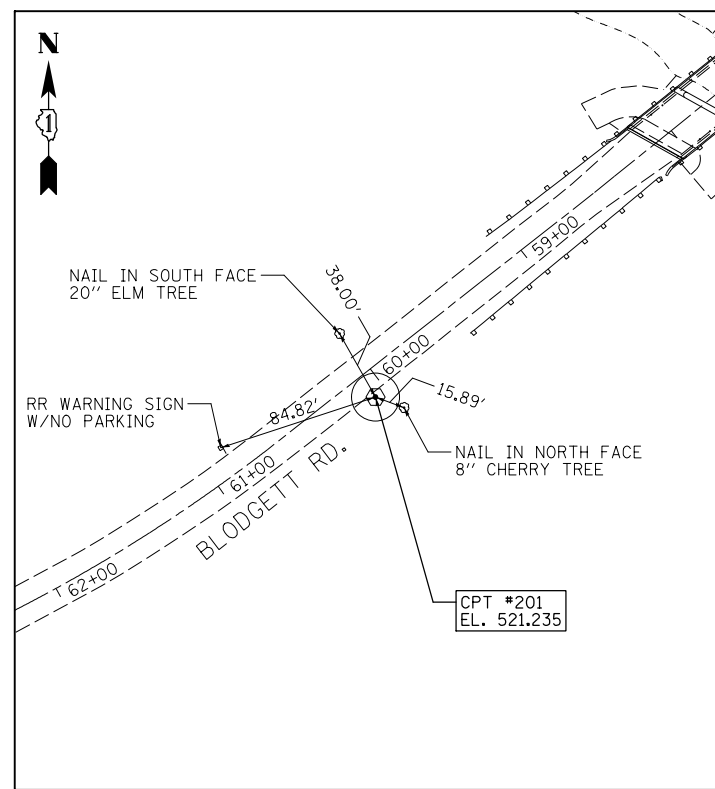
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-HB-31-3	WILL	87	20
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				



**CONTROL POINT #200**

IRON ROD WITH CAP

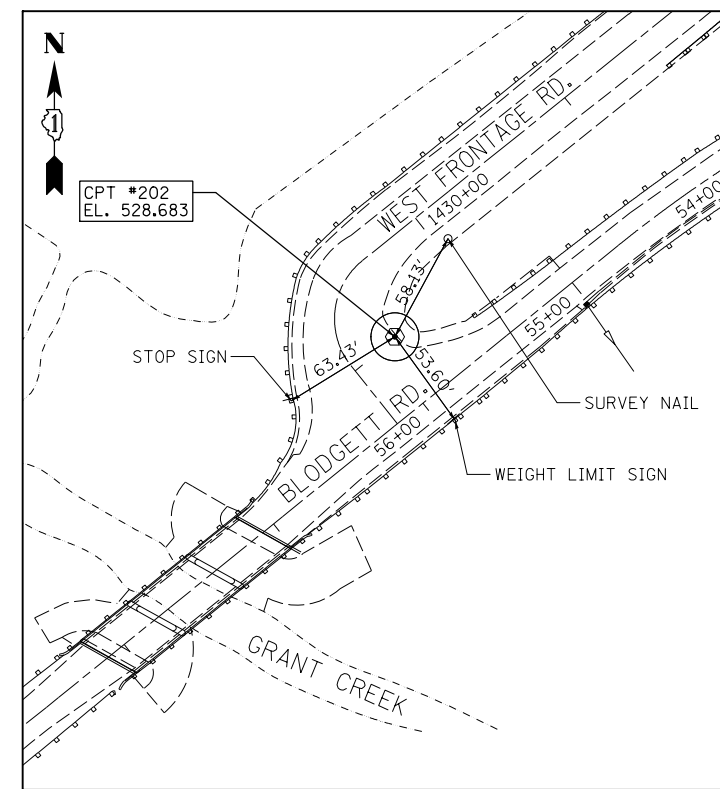
STA. N/A  
 N 1,715,522.633  
 E 1,021,622.526  
 ELEV. 512.272



**CONTROL POINT #201**

IRON ROD WITH CAP

STA. 60+07.04, 17.23' LT.  
 N 1,715,719.015  
 E 1,022,000.965  
 ELEV. 521.235



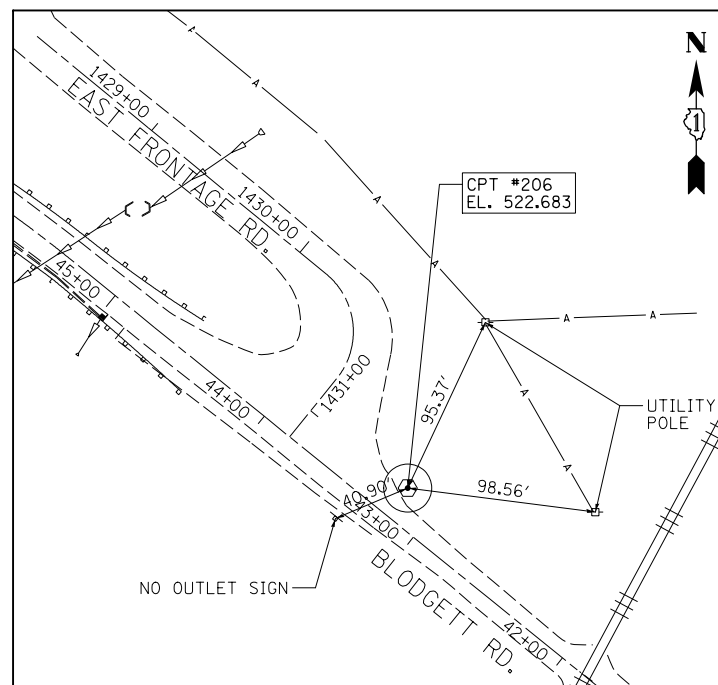
**CONTROL POINT #202**

MAG NAIL

STA. 55+89.62, 36.01' RT.  
 N 1,716,018.131  
 E 1,022,296.060  
 ELEV. 528.683

**BENCHMARK "A"**  
 ELEV. = 529.61  
 " " CUT ON NE WINGWALL OF BRIDGE OVER GRANT CREEK.

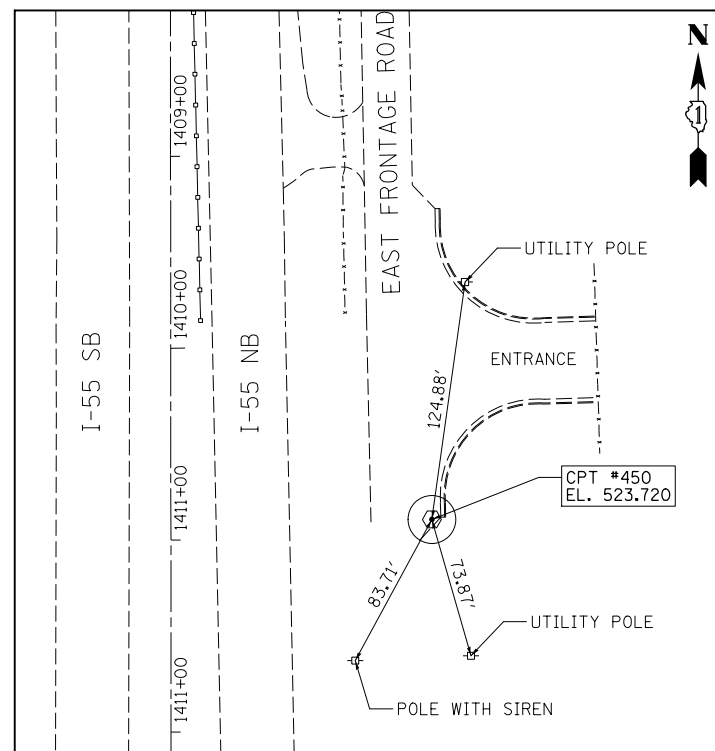
**BENCHMARK "B"**  
 ELEV. = 522.00  
 RAILROAD SPIKE IN SW FACE OF FIRST UTILITY POLE SE OF ENTRANCE TO TRANSFER STATION ON EAST FRONTAGE ROAD. +250' WEST OF THE INTERSECTION WITH BLODGETT ROAD.



**CONTROL POINT #206**

NGS MONUMENT (NO CAP)

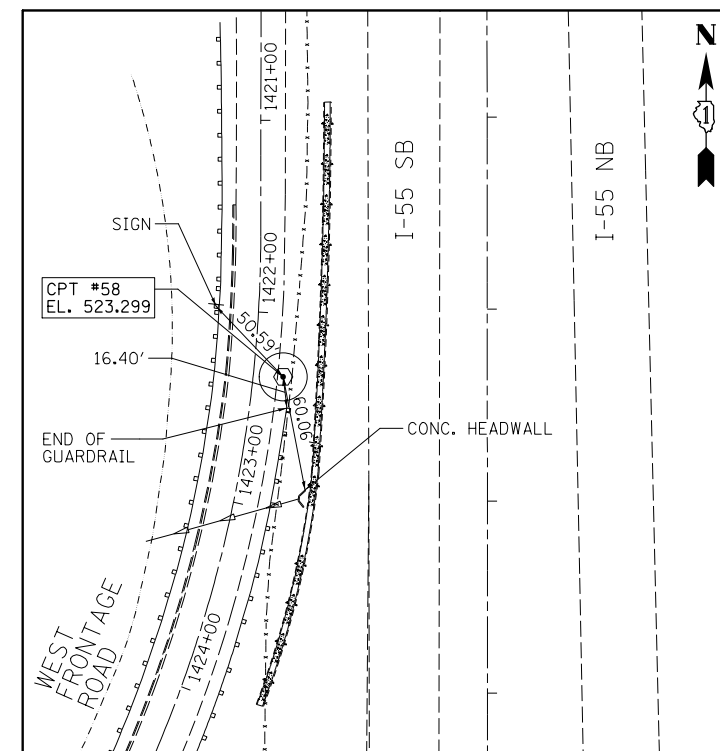
STA. 43+18.07, 19.20' RT.  
 N 1,715,945.768  
 E 1,023,456.463  
 ELEV. 522.831



**CONTROL POINT #450**

MAG NAIL

STA. 1410+89.38, 135.75' LT.  
 N 1,717,830.056  
 E 1,022,991.573  
 ELEV. 523.720



**CONTROL POINT #58**

MAG NAIL

STA. 1422+32.19, 15.60' LT.  
 N 1,716,684.064  
 E 1,022,750.228  
 ELEV. 523.299

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USER NAME =	tborges
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DRAWN -	WJD
CHECKED -	STI
DATE -	04/13/12
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

DESIGNED -	WJD
DRAWN -	WJD
CHECKED -	STI
DATE -	04/13/12
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REVISED -	

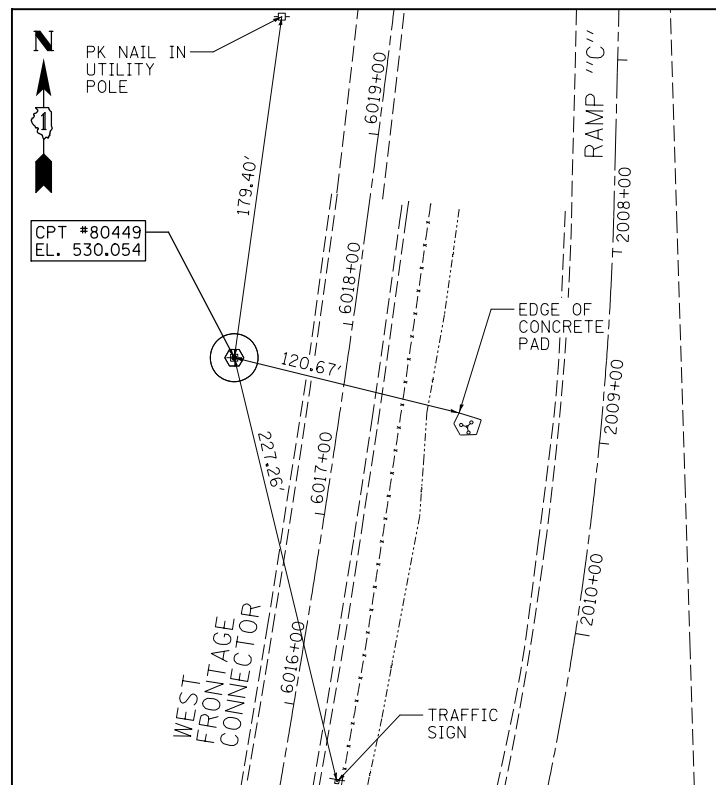
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DRAWN -	WJD
CHECKED -	STI
DATE -	04/13/12
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REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES & BENCHMARKS

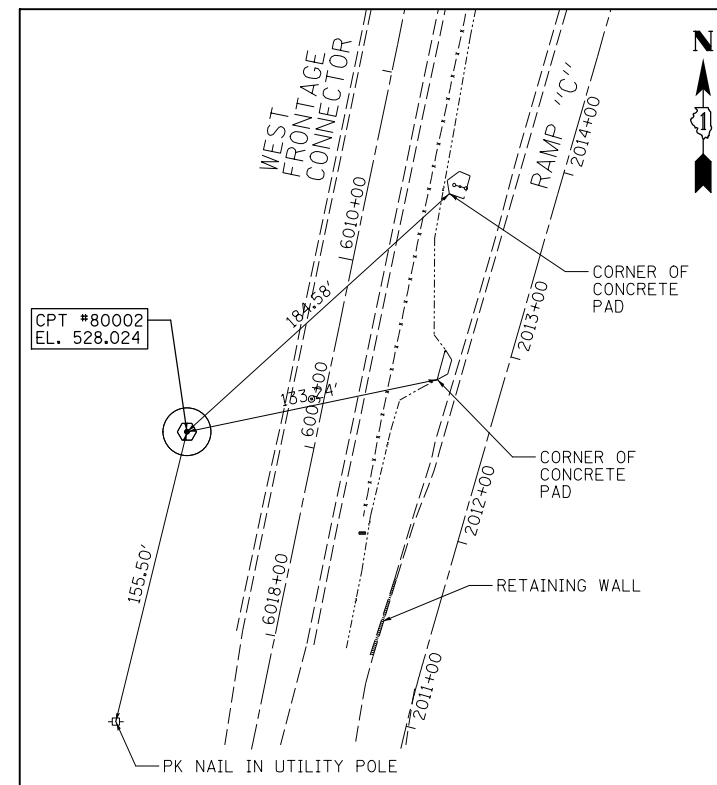
SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	21
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



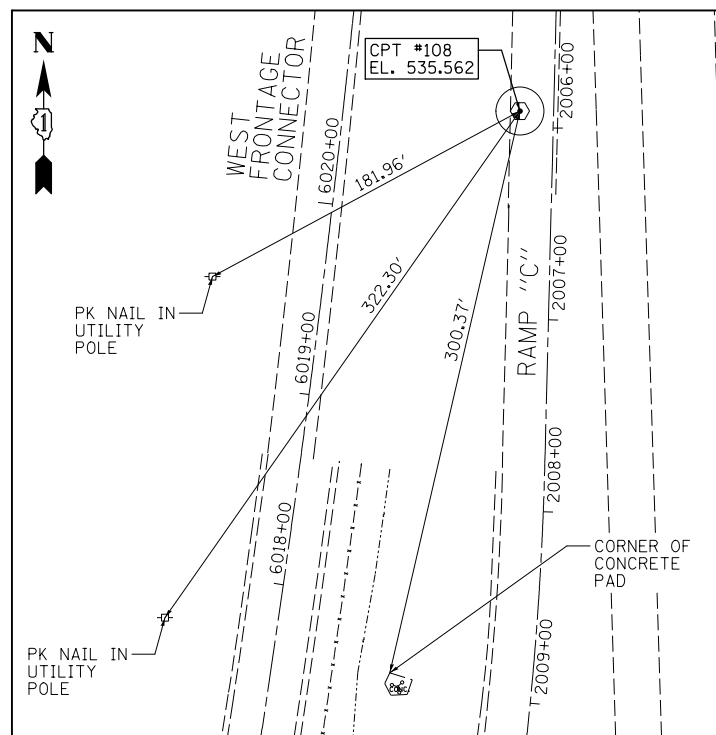
**CONTROL POINT #80449**  
PK NAIL IN UTILITY POLE

STA. 6017+74.148 (FR), 58.585' LT.  
STA. 2008+70.877 (RAMP C), 193.500' RT.  
N 1,724,041.728  
E 1,022,411.440  
ELEV. 530.054



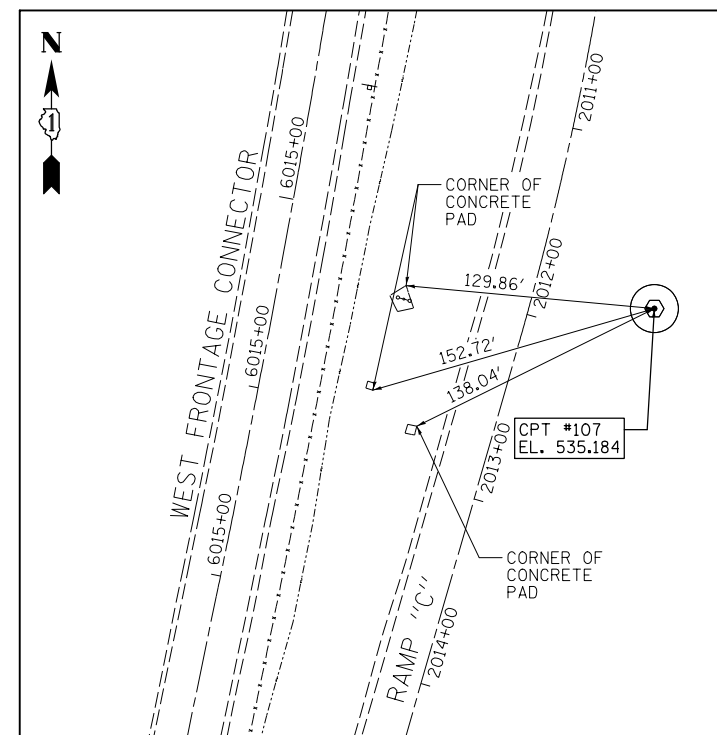
**CONTROL POINT #80002**  
PK NAIL IN UTILITY POLE

STA. 6008+94.886 (FR), 66.454' LT.  
STA. 2017+84.050 (RAMP C), 151.411 RT.  
N 1,723,183.174  
E 1,022,240.110  
ELEV. 528.024



**CONTROL POINT #108**  
CUT CROSS IN PAVEMENT

STA. 6020+58.723 (FR), 91.664' RT.  
STA. 2005+91.667 (RAMP C), 17.491' RT.  
N 1,724,305.645  
E 1,022,596.441  
ELEV. 535.562



**CONTROL POINT #107**  
CUT CROSS IN PAVEMENT

STA. 6014+77.856 (FR), 195.224' RT.  
STA. 2011+79.996 (RAMP C), 63.251' LT.  
N 1,723,705.742  
E 1,022,261.417  
ELEV. 535.184

**BENCHMARK "A"**

ELEV. = 529.61

"□" CUT ON NE WINGWALL OF BRIDGE OVER GRANT CREEK.

**BENCHMARK "B"**

ELEV. = 522.00

RAILROAD SPIKE IN SW FACE OF FIRST UTILITY POLE SE OF ENTRANCE TO TRANSFER STATION ON EAST FRONTAGE ROAD, +250' WEST OF THE INTERSECTION WITH BLODGETT ROAD.

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PLOT SCALE = 100.000000' / 1" = 100'  
PLOT DATE = 3/31/2014

DESIGNED - WJD  
DRAWN - WJD  
CHECKED - STI  
DATE - 04/13/12

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES & BENCHMARKS

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	22
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

ALIGNMENT COORDINATES - BLODGETT ROAD			
	STATION	N	E
POT	41+04.78	1715797.32	1023611.10
PC	45+30.29	1716065.20	1023280.48
PI	50+88.53	1716416.63	1022846.75
PT	54+69.00	1716065.83	1022412.51
POT	58+52.10	1715825.10	1022114.50
PC	60+68.18	1715691.55	1021944.62
PI	61+48.83	171642.22	1021880.82
PT	62+29.00	1715605.77	1021425.06

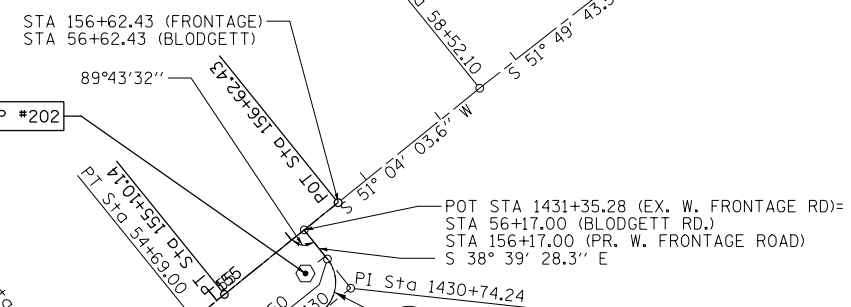
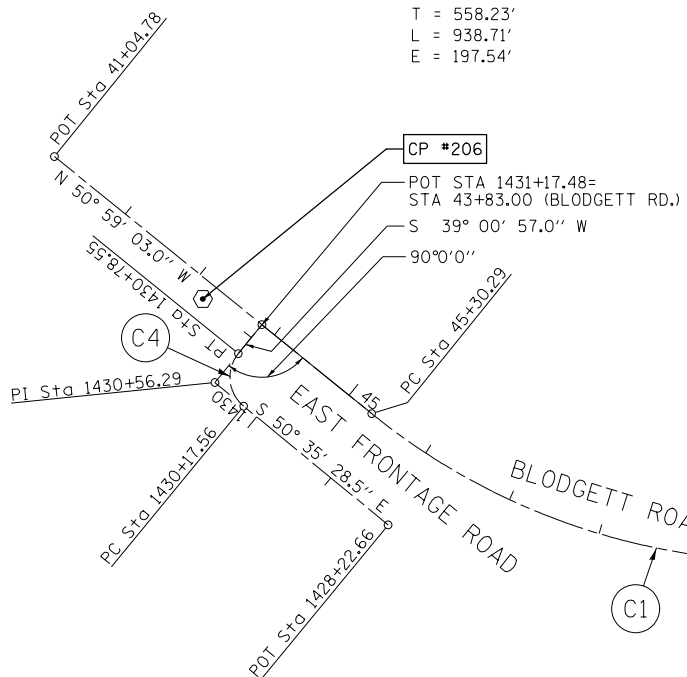
ALIGNMENT COORDINATES - FAI 55			
	STATION	N	E
POT	1405+36.07	1718383.23	1022855.33
POT	1438+79.50	1715039.80	1022857.86



MATCH LINE 1420+00

**C1**  
 EXIST. CURVE C1 -  
 BLODGETT ROAD  
 PI STA. = 50+88.53  
 $\Delta = 77^\circ 56' 53''$  (LT)  
 D = 8° 18' 13"  
 R = 690.00'  
 T = 558.23'  
 L = 938.71'  
 E = 197.54'

**C2**  
 EXIST. CURVE C2 -  
 BLODGETT ROAD  
 PI STA. = 61+48.83  
 $\Delta = 10^\circ 50' 53''$  (RT)  
 D = 6° 44' 45"  
 R = 849.36'  
 T = 80.65'  
 L = 160.81'  
 E = 3.82'  
 P.C. STA. = 60+68.18  
 P.T. STA. = 62+29.00



ALIGNMENT COORDINATES - PR W. FRONTAGE ROAD			
	STATION	N	E
PC	146+84.04	1716757.19	1022738.59
PI	147+84.84	1716653.39	1022738.47
PT	148+90.09	1716554.22	1022707.83
PC	149+50.06	1716496.92	1022690.12
PI	152+38.56	1716221.28	1022604.94
PT	155+10.14	1716039.99	1022380.52
POT	156+62.43	1715944.29	1022262.05

ALIGNMENT COORDINATES - EX. W. FRONTAGE RD			
	STATION	N	E
POT	1420+43.26	1716874.46	1022738.22
PC	1421+60.64	1716757.19	1022738.59
PI	1424+90.52	1716427.20	1022738.22
PT	1430+96.50	1716003.11	1022273.16
PC	1430+35.35	1716057.86	1022279.17
PI	1430+74.24	1716033.48	1022248.86
PT	1430+96.50	1716003.11	1022273.16
POT	1431+35.28	1715972.83	1022297.38

**C4**  
 EXIST. CURVE C4 - EAST FRONTAGE ROAD  
 PI STA. = 1430+56.29  
 $\Delta = 89^\circ 36' 25''$  (RT)  
 D = 146° 54' 44"  
 R = 39.00'  
 T = 38.73'  
 L = 60.99'  
 E = 15.97'  
 P.C. STA. = 1430+17.56  
 P.T. STA. = 1430+78.55

PROP. CURVE WFR1  
 PI STA. = 152+38.56  
 $\Delta = 33^\circ 53' 41''$  (RT)  
 D = 6° 03' 07"  
 R = 946.75'  
 T = 288.50'  
 L = 560.07'  
 E = 42.98'  
 e = 0.07''  
 T.R. = 33.30'  
 S.E. RUN = 155.40'  
 P.C. STA = 149+50.06  
 P.T. STA = 155+10.14

PROP. CURVE WFR2  
 PI STA. = 147+87.84  
 $\Delta = 17^\circ 06' 35''$  (RT)  
 D = 8° 18' 13"  
 R = 690.00'  
 T = 103.80'  
 L = 206.05'  
 E = 7.76'  
 e = 0.08''  
 T.R. = 33.30'  
 S.E. RUN = 177.60'  
 P.C. STA = 146+84.04  
 P.T. STA = 148+90.09

ALIGNMENT COORDINATES - EAST FRONTAGE ROAD			
	STATION	N	E
POT	1428+22.66	1716181.14	1023263.31
PC	1430+17.56	1716057.41	1023413.89
PI	1430+56.29	1716032.82	1023443.82
PT	1430+78.55	1716002.72	1023419.43
POT	1431+17.48	1715972.47	1023394.93

**C6**  
 EXIST. CURVE C6  
 PI STA. = 1424+90.52  
 $\Delta = 51^\circ 07' 06''$  (RT)  
 D = 8° 18' 13"  
 R = 690.00'  
 T = 329.99'  
 L = 615.61'  
 E = 74.85'  
 e = ----  
 T.R. = ----  
 S.E. RUN = ----  
 P.C. STA. = 1421+60.54  
 P.T. STA. = 1427+76.14

**C3**  
 EXIST. CURVE C3  
 PI STA. = 1430+74.24  
 $\Delta = 89^\circ 50' 21''$  (LT)  
 D = 146° 54' 44"  
 R = 39.00'  
 T = 38.89'  
 L = 61.15'  
 E = 16.08'  
 e = ----  
 T.R. = ----  
 S.E. RUN = ----  
 P.C. STA. = 1430+35.35  
 P.T. STA. = 1430+96.50

MATCH LINE 1420+00

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USER NAME = tborges  
 DESIGNED - MMO  
 DRAWN - BL  
 CHECKED - LSA  
 DATE - 9/25/2013

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

SCALE: 1" = 100' SHEET 3 OF 4 SHEETS STA. TO STA.

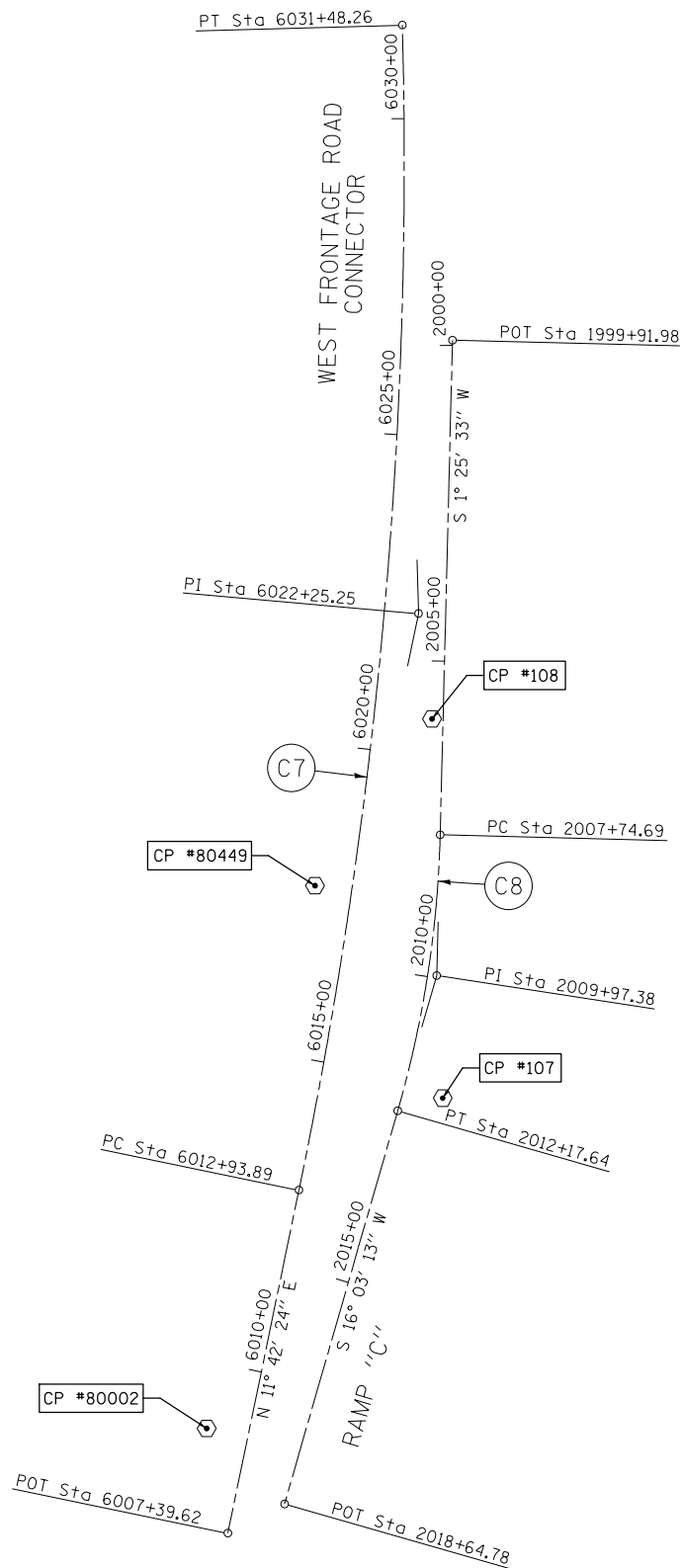
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	23
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



ALIGNMENT COORDINATES WEST FRONTAGE ROAD CONNECTOR			
	STATION	N	E
POT	6007+39.62	1,723,017.65	1,022,273.68
PC	6012+93.89	1,723,560.39	1,022,386.14
PI	6022+25.25	1,724,472.38	1,022,575.12
PT	6031+48.26	1,725,403.39	1,022,549.53

(C7)

EXIST. CURVE C7  
 PI STA. = 6022+25.25  
 $\Delta = 13^\circ 16' 51''$   
 $D = 0^\circ 42' 58''$   
 $R = 8,000'$   
 $T = 931.36'$   
 $L = 1,854.37'$   
 $E = 54.03'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 6012+93.89$   
 $P.T. STA. = 6031+48.26$



ALIGNMENT COORDINATES - RAMP "C"			
	STATION	N	E
POT	1999+91.98	1,724,904.71	1,022,628.85
PC	2007+74.69	1,724,122.25	1,022,609.37
PI	2009+97.38	1,723,899.63	1,022,603.83
PT	2012+17.64	1,723,685.62	1,022,542.25
POT	2018+64.78	1,723,063.72	1,022,363.29

(C8)

EXIST. CURVE C8  
 PI STA. = 2009+97.38  
 $\Delta = 14^\circ 37' 41''$   
 $D = 3^\circ 18' 08''$   
 $R = 1,735'$   
 $T = 222.69'$   
 $L = 442.96'$   
 $E = 14.23'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 2007+74.69$   
 $P.T. STA. = 2012+17.64$

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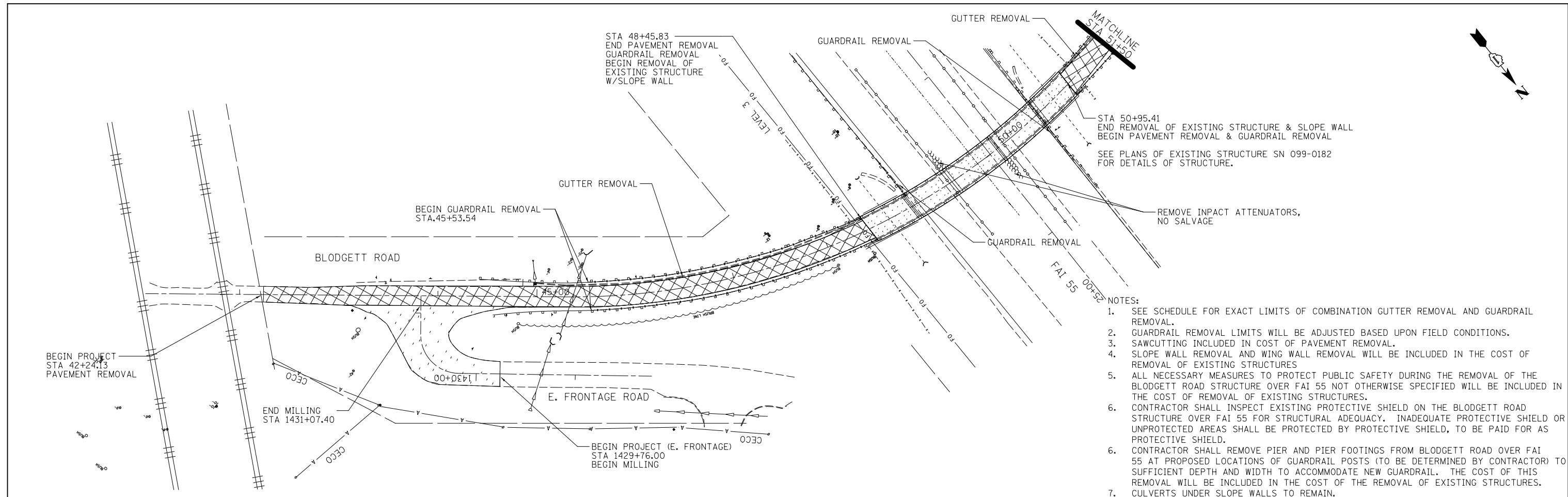
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

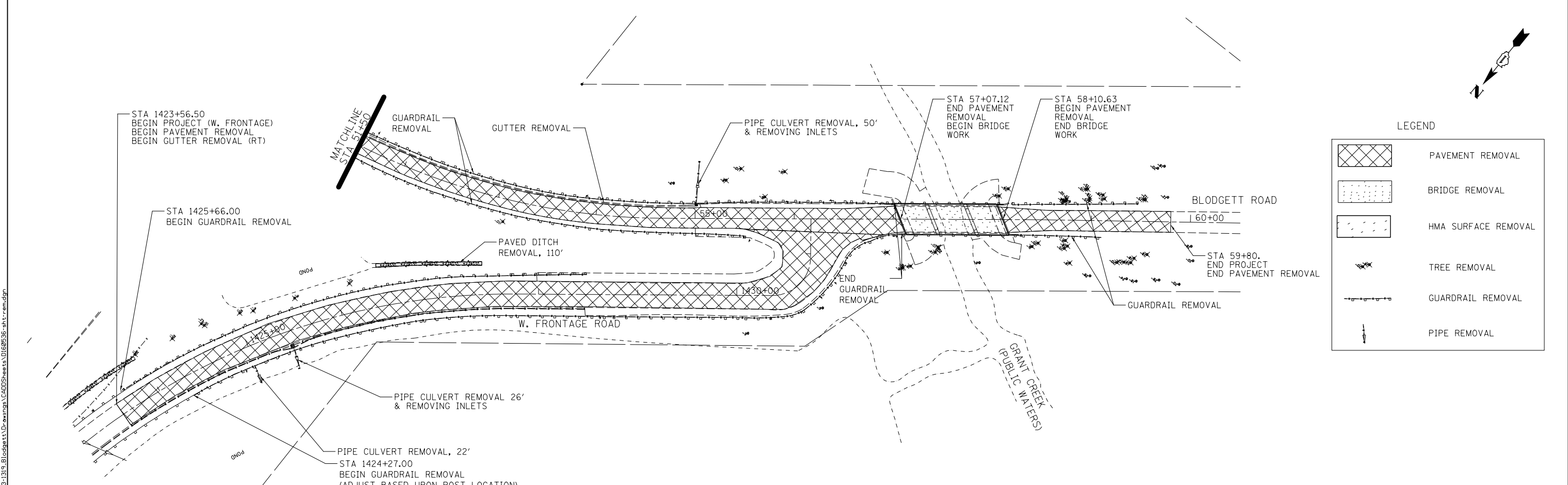
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	24
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				





- NOTES:
1. SEE SCHEDULE FOR EXACT LIMITS OF COMBINATION GUTTER REMOVAL AND GUARDRAIL REMOVAL.
  2. GUARDRAIL REMOVAL LIMITS WILL BE ADJUSTED BASED UPON FIELD CONDITIONS.
  3. SAWCUTTING INCLUDED IN COST OF PAVEMENT REMOVAL.
  4. SLOPE WALL REMOVAL AND WING WALL REMOVAL WILL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES
  5. ALL NECESSARY MEASURES TO PROTECT PUBLIC SAFETY DURING THE REMOVAL OF THE BLODGETT ROAD STRUCTURE OVER FAI 55 NOT OTHERWISE SPECIFIED WILL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.
  6. CONTRACTOR SHALL INSPECT EXISTING PROTECTIVE SHIELD ON THE BLODGETT ROAD STRUCTURE OVER FAI 55 FOR STRUCTURAL ADEQUACY. INADEQUATE PROTECTIVE SHIELD OR UNPROTECTED AREAS SHALL BE PROTECTED BY PROTECTIVE SHIELD, TO BE PAID FOR AS PROTECTIVE SHIELD.
  6. CONTRACTOR SHALL REMOVE PIER AND PIER FOOTINGS FROM BLODGETT ROAD OVER FAI 55 AT PROPOSED LOCATIONS OF GUARDRAIL POSTS (TO BE DETERMINED BY CONTRACTOR) TO SUFFICIENT DEPTH AND WIDTH TO ACCOMMODATE NEW GUARDRAIL. THE COST OF THIS REMOVAL WILL BE INCLUDED IN THE COST OF THE REMOVAL OF EXISTING STRUCTURES.
  7. CULVERTS UNDER SLOPE WALLS TO REMAIN.



LEGEND

	PAVEMENT REMOVAL
	BRIDGE REMOVAL
	HMA SURFACE REMOVAL
	TREE REMOVAL
	GUARDRAIL REMOVAL
	PIPE REMOVAL

**BLOOM COMPANIES, LLC**  
 Infrastructure Development and Design  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 676-8500 Fax: (312) 876-8600

USER NAME = tborges	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - LSA	REVISED -
PLOT DATE = 3/31/2014	DATE - 12/4/2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLANS**

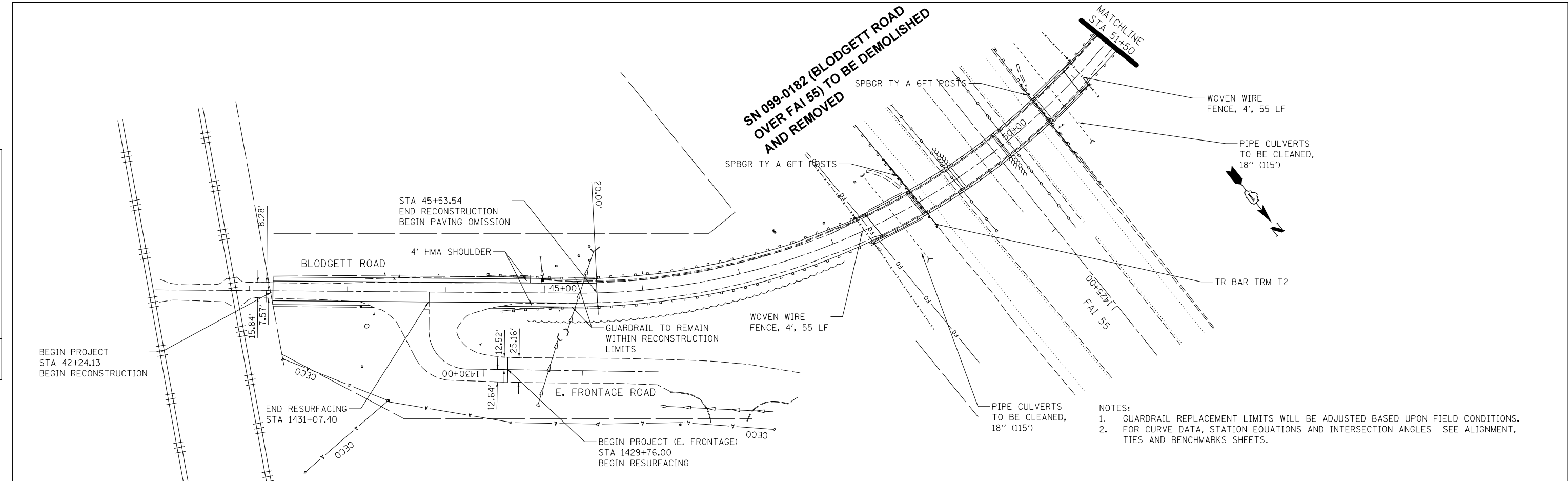
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	91-2HB-31-3	WILL	87	25
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

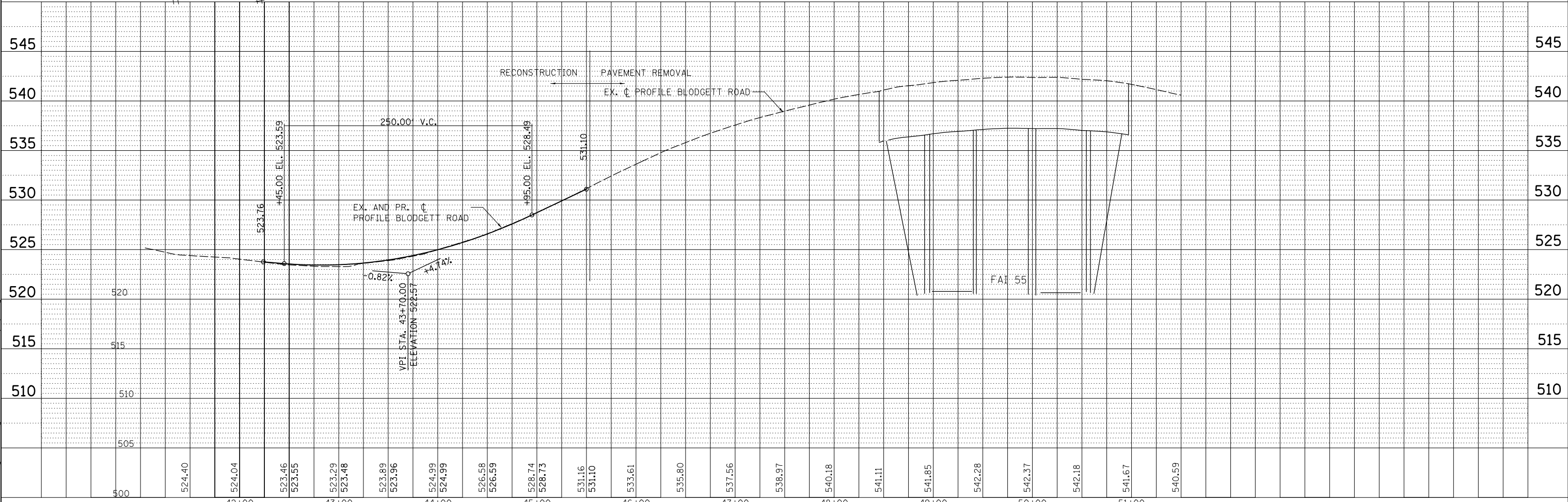
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



- NOTES:
1. GUARDRAIL REPLACEMENT LIMITS WILL BE ADJUSTED BASED UPON FIELD CONDITIONS.
  2. FOR CURVE DATA, STATION EQUATIONS AND INTERSECTION ANGLES SEE ALIGNMENT, TIES AND BENCHMARKS SHEETS.



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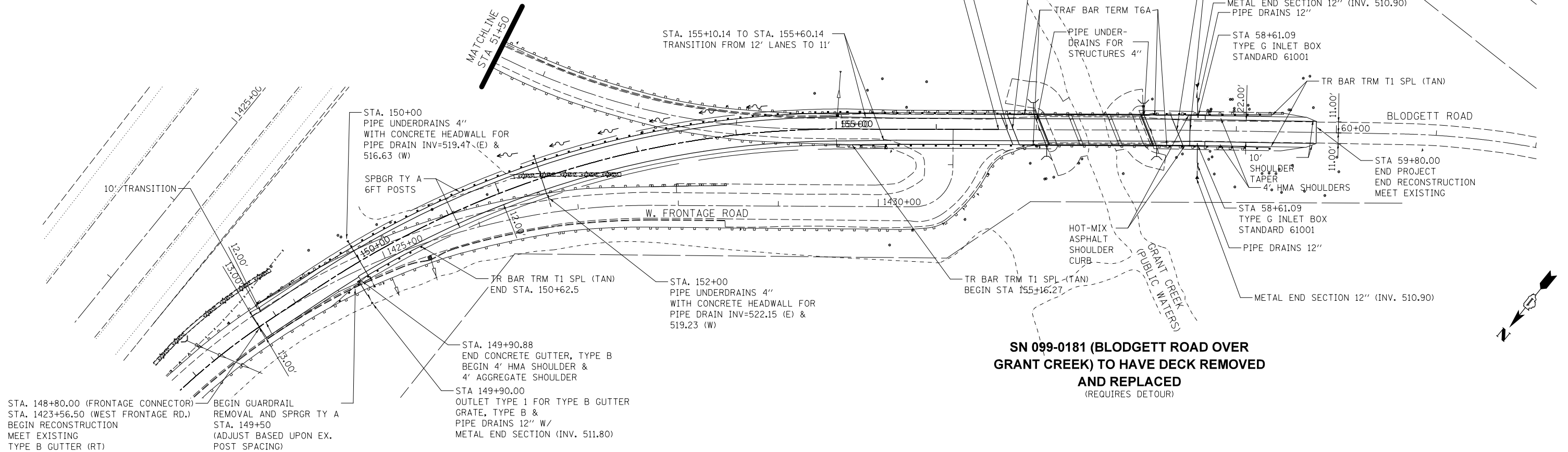
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

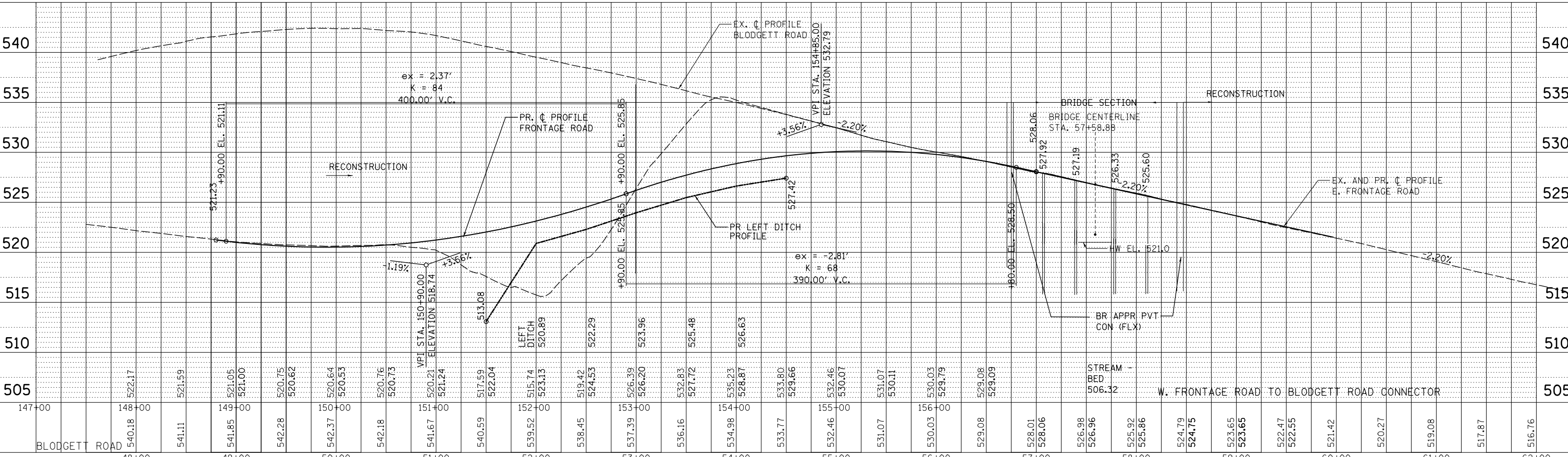
- NOTES:  
 1. GUARDRAIL REPLACEMENT LIMITS WILL BE ADJUSTED BASED UPON FIELD CONDITIONS.  
 2. SEE SCHEDULES FOR GUARDRAIL LOCATIONS.  
 3. FOR CURVE DATA, STATION EQUATIONS AND INTERSECTION ANGLES SEE ALIGNMENT, TIES AND BENCHMARKS SHEETS.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	



**SN 099-0181 (BLODGETT ROAD OVER GRANT CREEK) TO HAVE DECK REMOVED AND REPLACED**  
 (REQUIRES DETOUR)

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



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 Infrastructure Innovation and Expertise  
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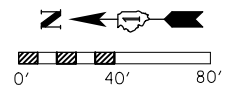
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

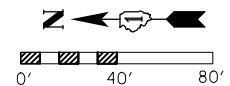
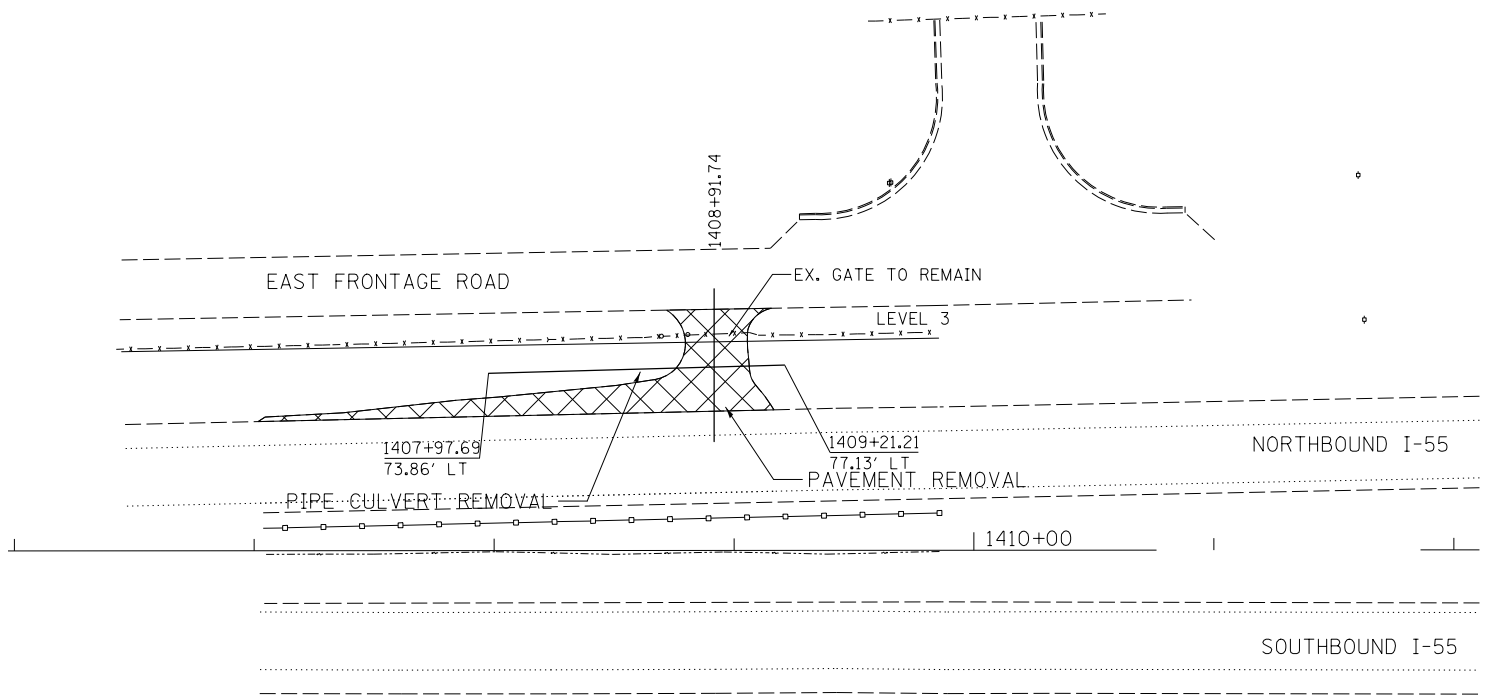
**PLAN AND PROFILE**

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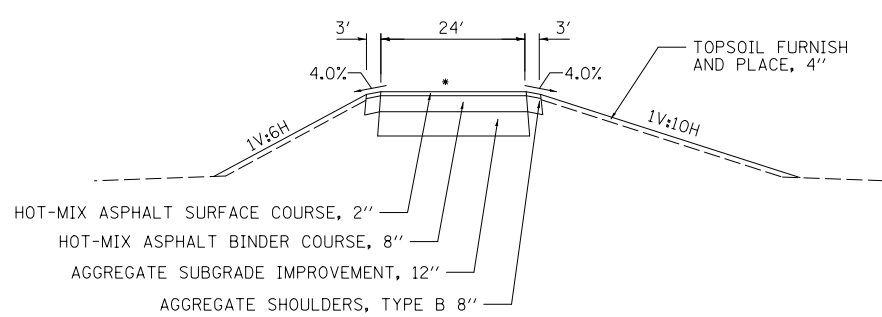
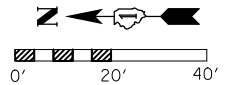
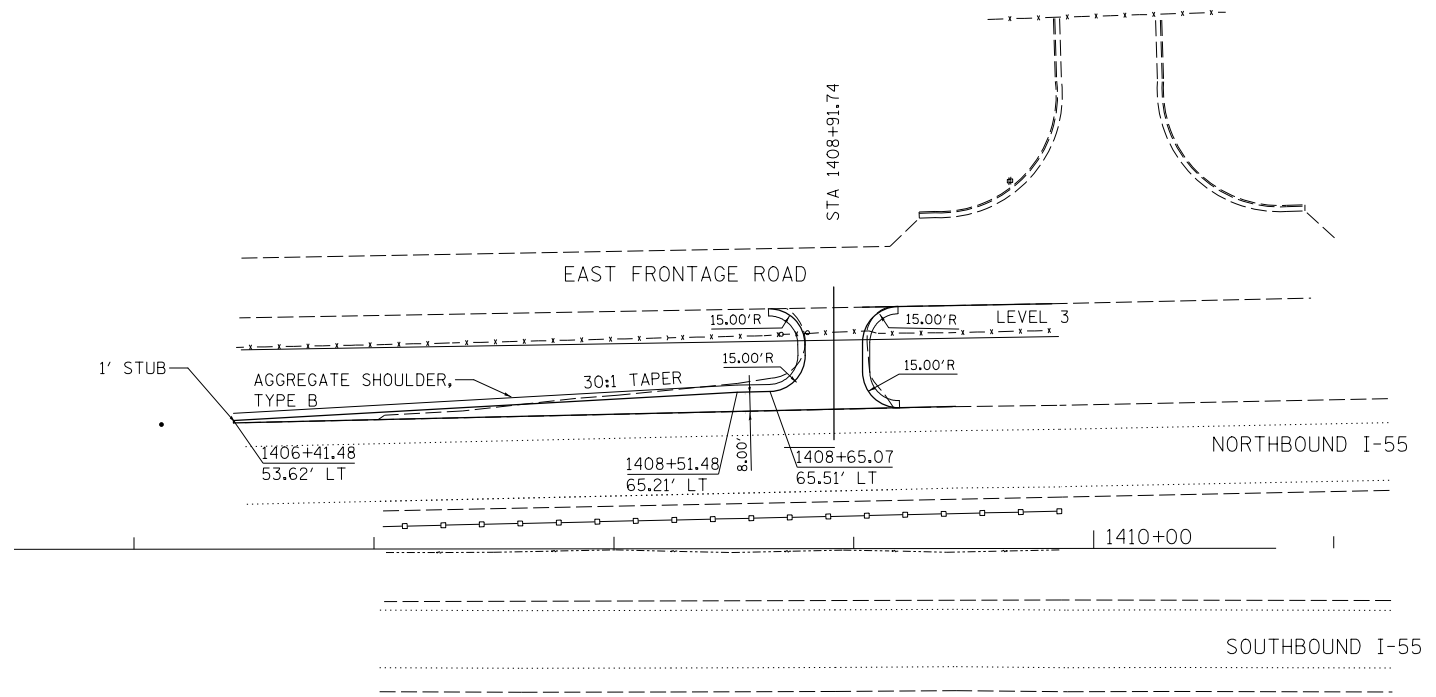
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	91-2HB-31-3	WILL	87	27
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



REMOVALS

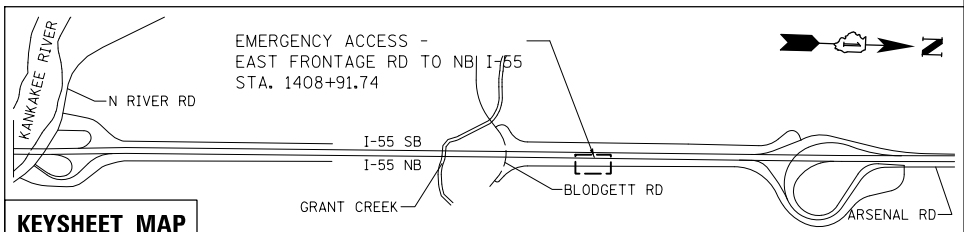
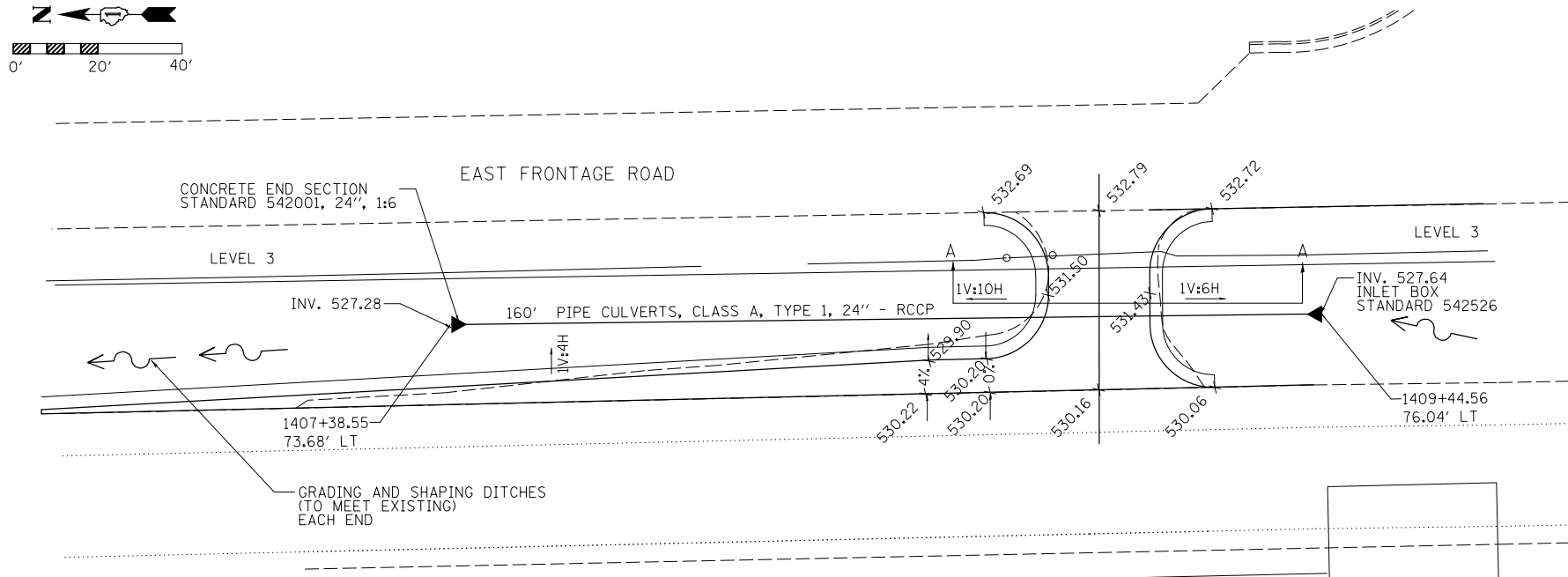


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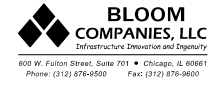


SECTION A-A

\*MATCHES ROADWAY SLOPE



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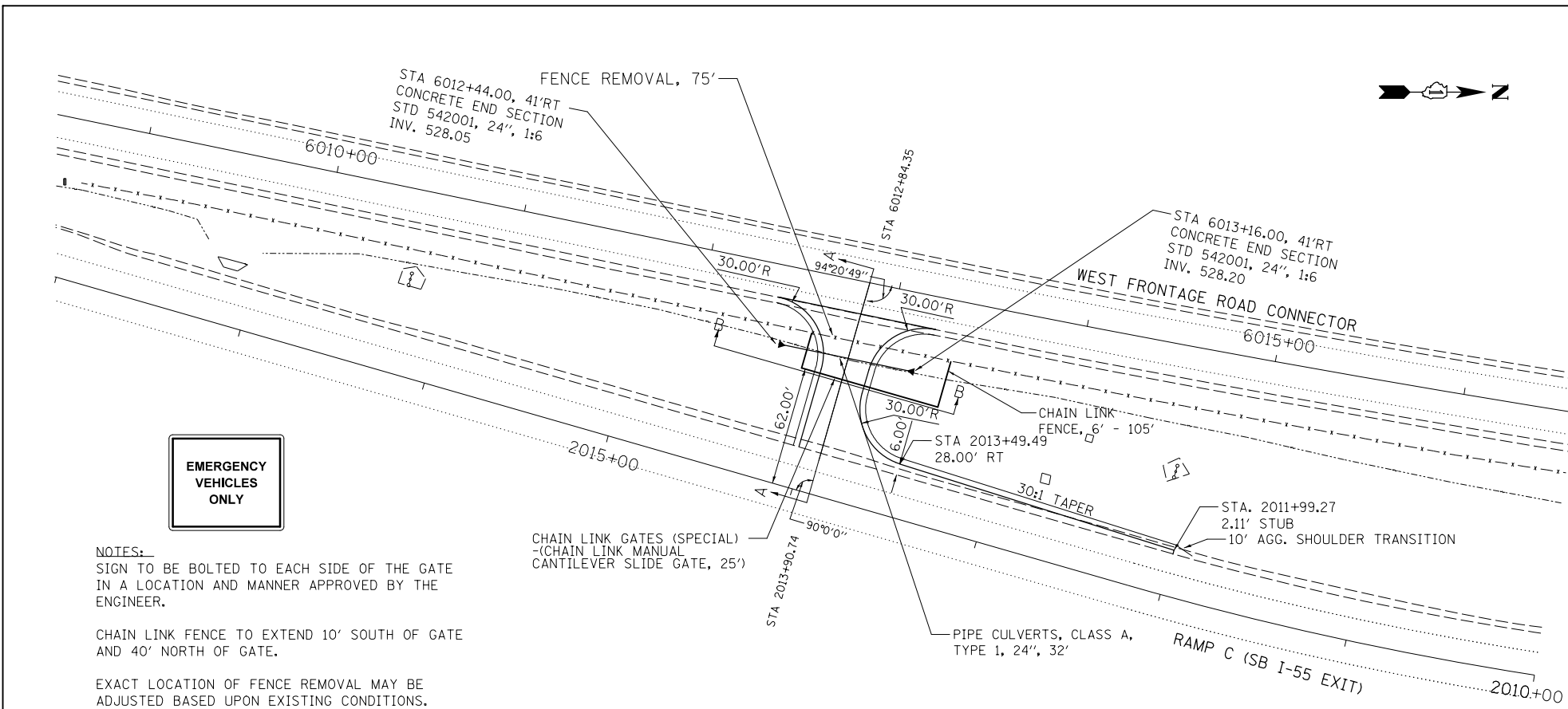


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PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED MMO
PLOT DATE = 3/31/2014	DATE -	REVISED 12/4/2013

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

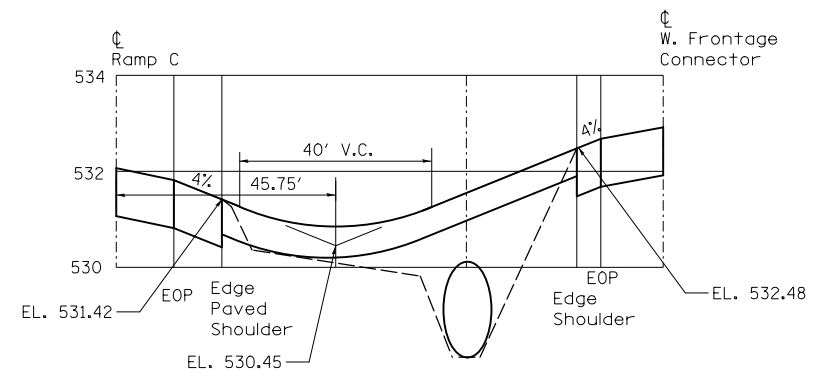
EMERGENCY ACCESS - EAST FRONTAGE ROAD PLAN			
SCALE: 1" = 40'	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	28
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

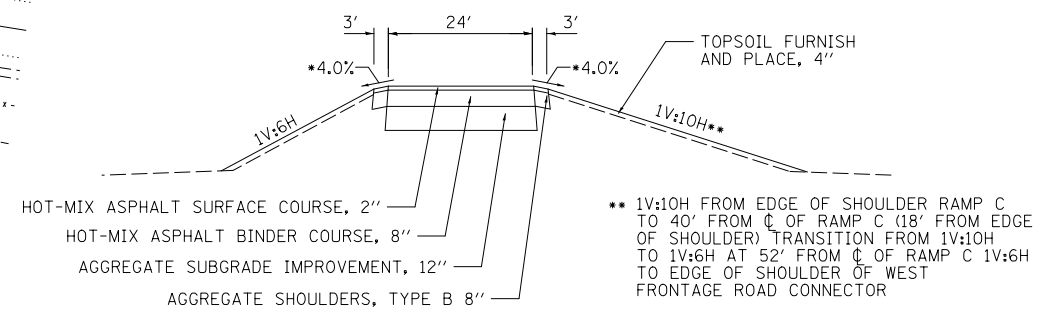


**EMERGENCY VEHICLES ONLY**

**NOTES:**  
SIGN TO BE BOLTED TO EACH SIDE OF THE GATE IN A LOCATION AND MANNER APPROVED BY THE ENGINEER.  
CHAIN LINK FENCE TO EXTEND 10' SOUTH OF GATE AND 40' NORTH OF GATE.  
EXACT LOCATION OF FENCE REMOVAL MAY BE ADJUSTED BASED UPON EXISTING CONDITIONS.

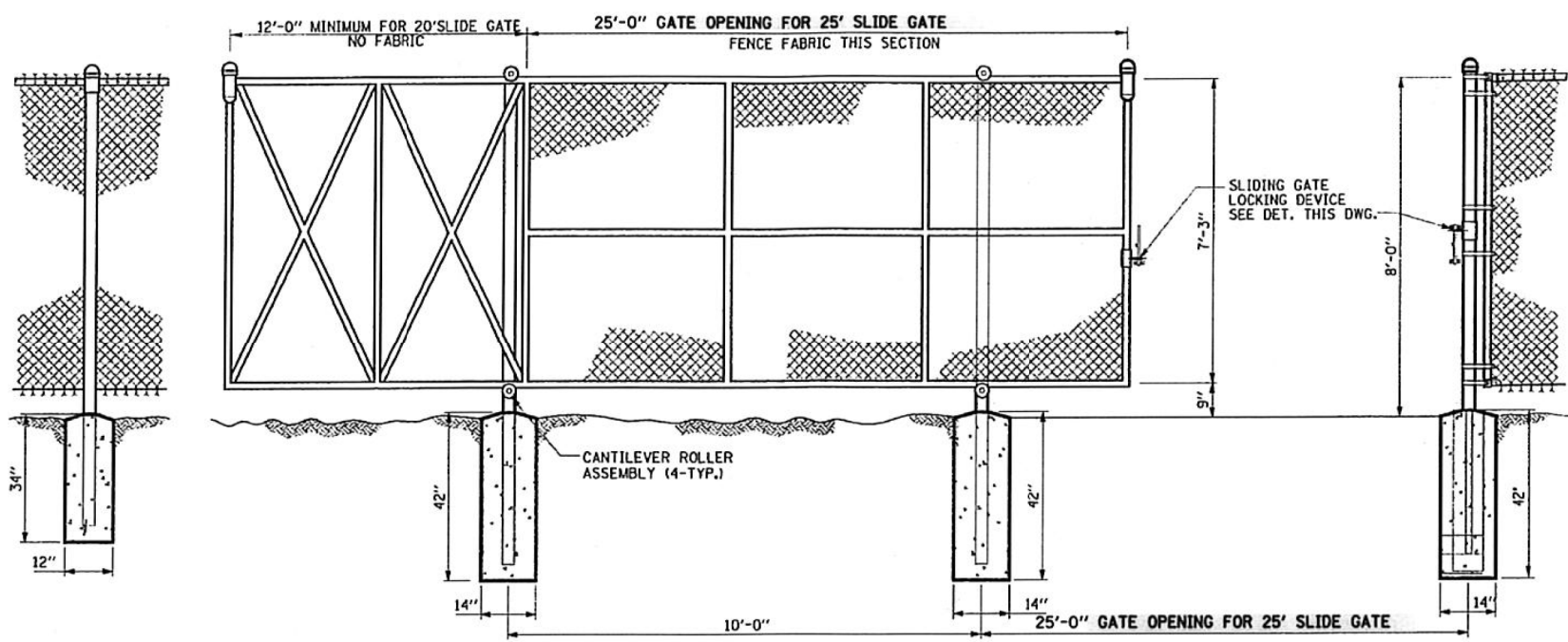


**SECTION A-A**



**SECTION B-B**

\*MATCHES ROADWAY SLOPE

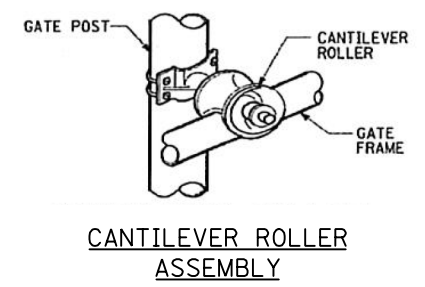


**CANTILEVER SLIDE GATE**

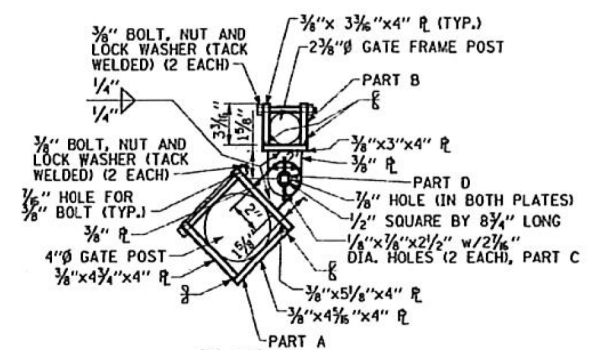
FABRIC	MESH	GAUGE	SELVAGE
ALUM.	2"	9	K+B
BARBED WIRE	TYPE 4 PT.	3 STR. X	6 STR. □
FRMWRK.	O.D.	WALL	LBS/LF
TOP RAIL	1 5/8"	.140	2.27
LINE POSTS	2 3/8"	.154	3.65
BRACE RAIL	1 5/8"	.140	2.27
CORNER POSTS	2 3/8"	.203	5.79
END POSTS	2 7/8"	.203	5.79

**NOTES:**  
1. ALL MATERIALS SHALL BE HOT DIP GALVANIZED  
2. ALL FITTINGS SHALL BE PRESSED STEEL.

**FENCE SPECIFICATIONS**



**CANTILEVER ROLLER ASSEMBLY**

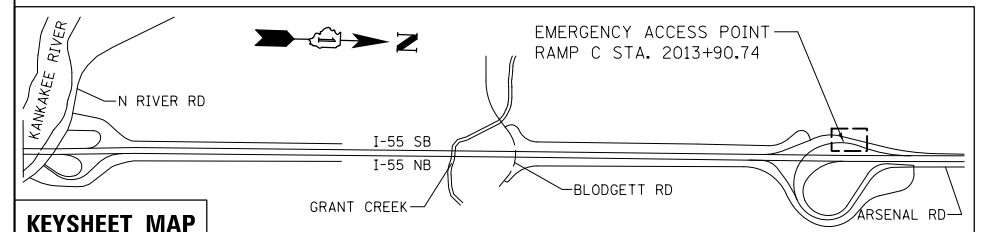


**PLAN**

NOT TO SCALE

**NOTES:**  
LOCKING DEVICE SHALL BE GALVANIZED STEEL IN ACCORDANCE WITH ASTM A123-97

**SLIDE GATE LOCKING DEVICE**



**KEYSHEET MAP**

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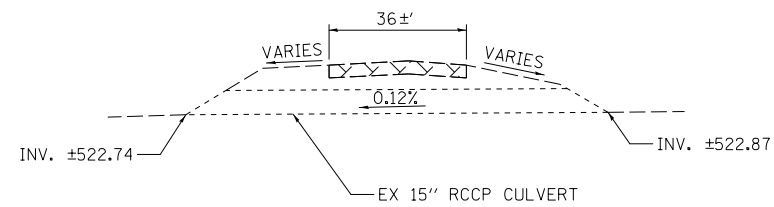
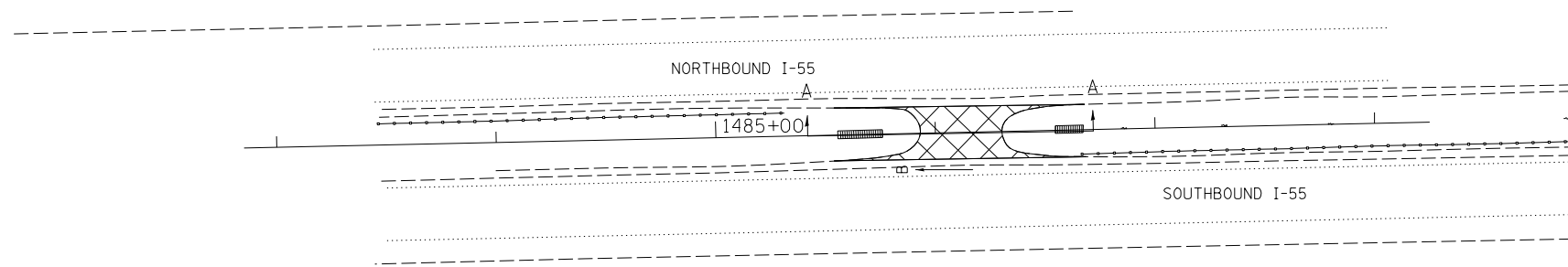
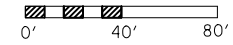
**BLOOM COMPANIES, LLC**  
Infrastructure Detection and Engineering  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 676-6500 Fax: (312) 676-9600

USER NAME = tborges	DESIGNED -	REVISED BCA
PLOT SCALE = 80.0000' / in.	DRAWN -	REVISED BL
PLOT DATE = 3/31/2014	CHECKED -	REVISED MMO
	DATE -	REVISED 12/4/2013

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

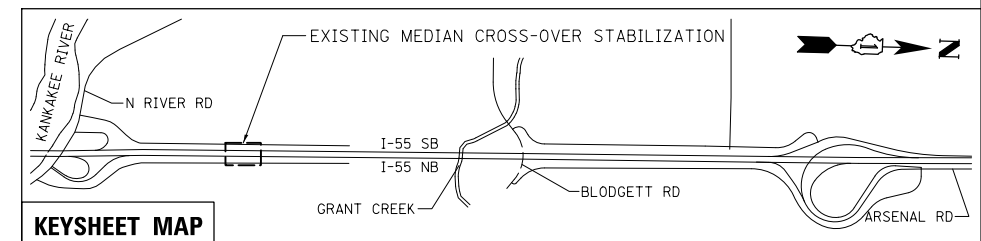
**EMERGENCY ACCESS - RAMP C TO WEST FRONTAGE RD CONNECTOR PLAN**  
SCALE: 1" = 40' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	29
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				



**SECTION A-A**

EXCAVATE 6±" OF EXISTING CROSSING  
PLACE HOT-MIX ASPHALT BINDER, 6"



**KEYSHEET MAP**

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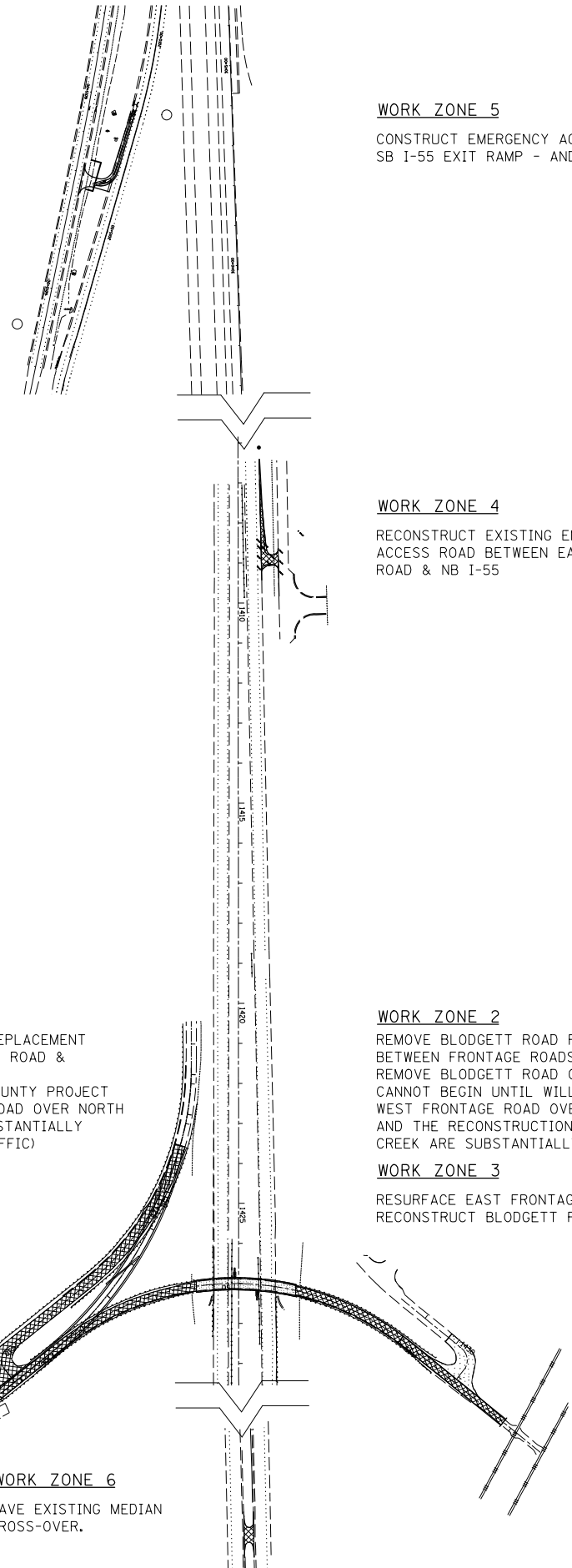
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PLOT DATE = 3/31/2014	DATE - 12/4/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING MEDIAN CROSS-OVER STABILIZATION  
PLAN**

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	30
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



**WORK\_ZONE 5**  
 CONSTRUCT EMERGENCY ACCESS BETWEEN RAMP C - SB I-55 EXIT RAMP - AND WEST FRONTAGE ROAD CONNECTOR.

**WORK\_ZONE 4**  
 RECONSTRUCT EXISTING EMERGENCY ACCESS ROAD BETWEEN EAST FRONTAGE ROAD & NB I-55

**WORK\_ZONE 1**  
 BRIDGE DECK REMOVAL AND REPLACEMENT RECONSTRUCT WEST FRONTAGE ROAD & BLODGETT ROAD.  
 CANNOT BEGIN UNTIL WILL COUNTY PROJECT REPLACING WEST FRONTAGE ROAD OVER NORTH BRANCH GRANT CREEK IS SUBSTANTIALLY COMPLETE (I.E., OPEN TO TRAFFIC)

**WORK\_ZONE 2**  
 REMOVE BLODGETT ROAD PAVEMENT EACH SIDE OF FAI 55 BETWEEN FRONTAGE ROADS.  
 REMOVE BLODGETT ROAD OVER FAI 55 BRIDGE.  
 CANNOT BEGIN UNTIL WILL COUNTY PROJECT REPLACING WEST FRONTAGE ROAD OVER NORTH BRANCH GRANT CREEK AND THE RECONSTRUCTION OF BLODGETT ROAD OVER GRANT CREEK ARE SUBSTANTIALLY COMPLETE (I.E., OPEN TO TRAFFIC)

**WORK\_ZONE 3**  
 RESURFACE EAST FRONTAGE ROAD.  
 RECONSTRUCT BLODGETT ROAD.

**WORK\_ZONE 6**  
 PAVE EXISTING MEDIAN CROSS-OVER.

THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR TRAFFIC CONTROL FOR THIS PROJECT:

- 701006 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701101 OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701301 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
- 701311 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701336 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH
- 701400 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701428 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAYS
- 701901 TRAFFIC CONTROL DEVICES
- TC-09 SINGLE LANE WEAVE AND MULTI-LANE WEAVE
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- TC-17 PARTIAL RAMP & SHOULDER CLOSURE DETAILS
- TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
- TC-22 ARTERIAL ROAD INFORMATION SIGN

TRAFFIC CONTROL AND PROTECTION NOTES:

TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, THESE NOTES, APPLICABLE SPECIAL PROVISIONS, AND SECTION 701 OF THE STANDARD SPECIFICATIONS.

EXISTING TRAFFIC CONTROL SIGNS AND DEVICES WILL BE REMOVED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGED OR LOST SIGNS SHALL BE REPLACED BY THE CONTRACTOR.

ANY DROP OFF GREATER THAN THREE (3) INCHES BUT LESS THAN SIX (6) INCHES, WITHIN EIGHT (8) FEET OF THE PAVEMENT EDGE, SHALL BE PROTECTED BY TYPE I OR TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY-BURN LIGHTS AT 100 FOOT CENTER SPACING. IF THE DROP OFF WITHIN EIGHT (8) FEET OF THE PAVEMENT EDGE EXCEEDS SIX (6) INCHES, THE BARRICADES OR DRUMS ELAS MENTIONED ABOVE SHALL BE PLACED AT FIFTY (50) FOOT CENTER TO CENTER SPACING. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.

TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITH THE RIGHT-OF-WAY (NUMBER AND SPECING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.

TYPE I, II AND/OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.

WHERE REQUIRED, TRAFFIC SIGNED SHALL BE RELOCATED FOR EACH STAGE OF CONSTRUCTION, INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION.

SUGGESTED CONSTRUCTION STAGING

BLODGETT ROAD (WORK\_ZONES 1 -3)

RECONSTRUCT PAVEMENT AND RESURFACE IN WORK\_ZONE 3.

IMPLEMENT DETOUR FOR WORK\_ZONE 1 REDECKING OF BLODGETT ROAD OVER GRANT CREEK AND PAVEMENT RECONSTRUCTION (SEE DETOUR PLAN) AFTER NO CONFLICTS WITH FAI 55 OVER THE DES PLAINES RIVER IMPROVEMENT - CONTRACT 60R62 - OR WITH WILL COUNTY REPLACEMENT WEST FRONTAGE ROAD OVER NORTH BRANCH GRANT CREEK.

IMPLEMENT ROAD CLOSED SIGNING FOR THE BLODGETT ROAD BRIDGE OVER FAI 55. CLOSE WORK\_ZONE 2 TO PUBLIC TRAFFIC.

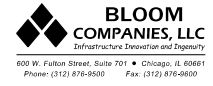
DEMOLITION OF BLODGETT ROAD OVER FAI 55.

REMOVE PAVEMENT AND GRADE IN WORK\_ZONE 2.

FAI 55 EMERGENCY ACCESS ROADS (WORK\_ZONES 4-6)

AFTER NO CONFLICTS WITH 60R62 CONSTRUCT EMERGENCY ACCESS ROADS.

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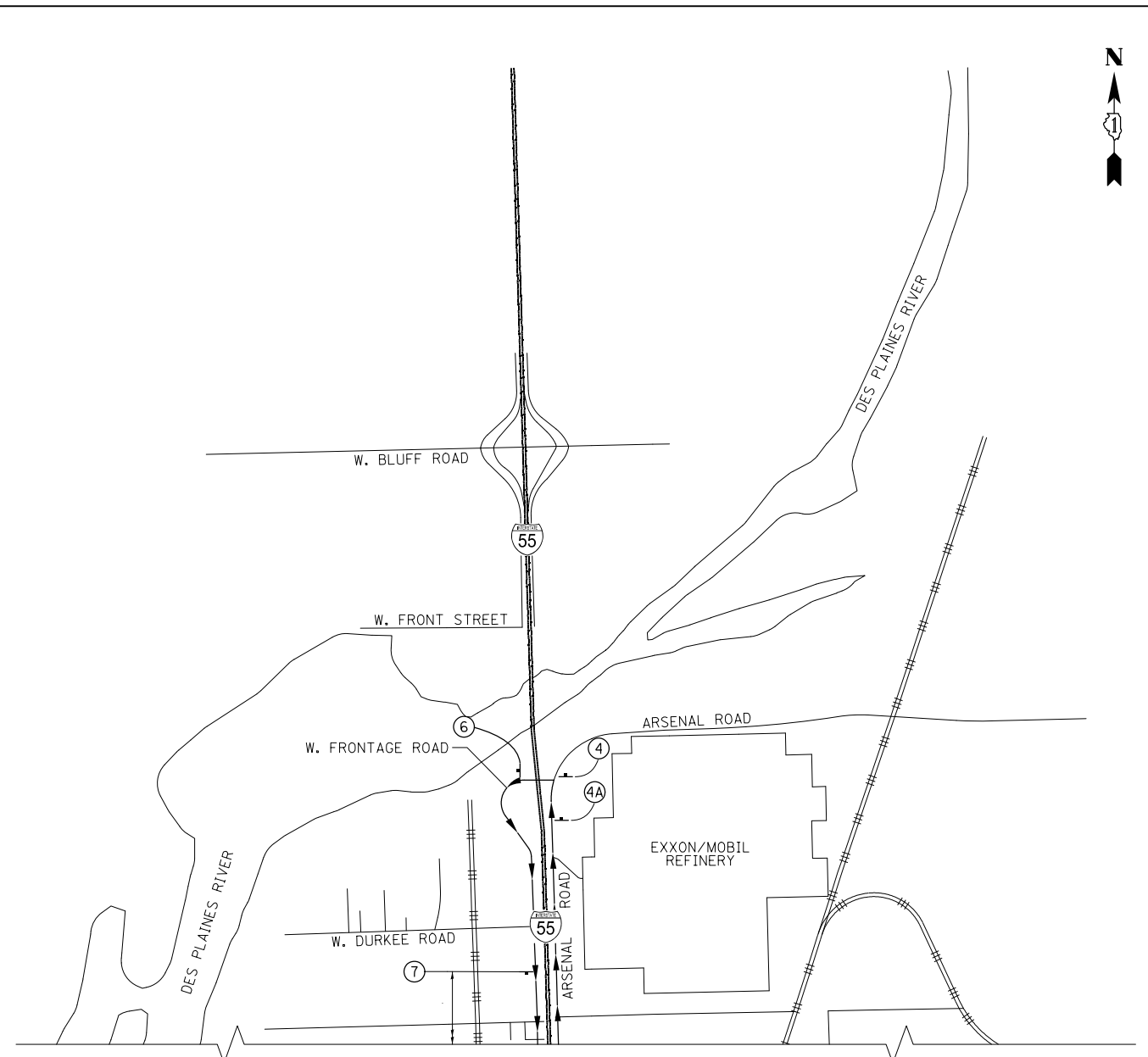
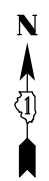
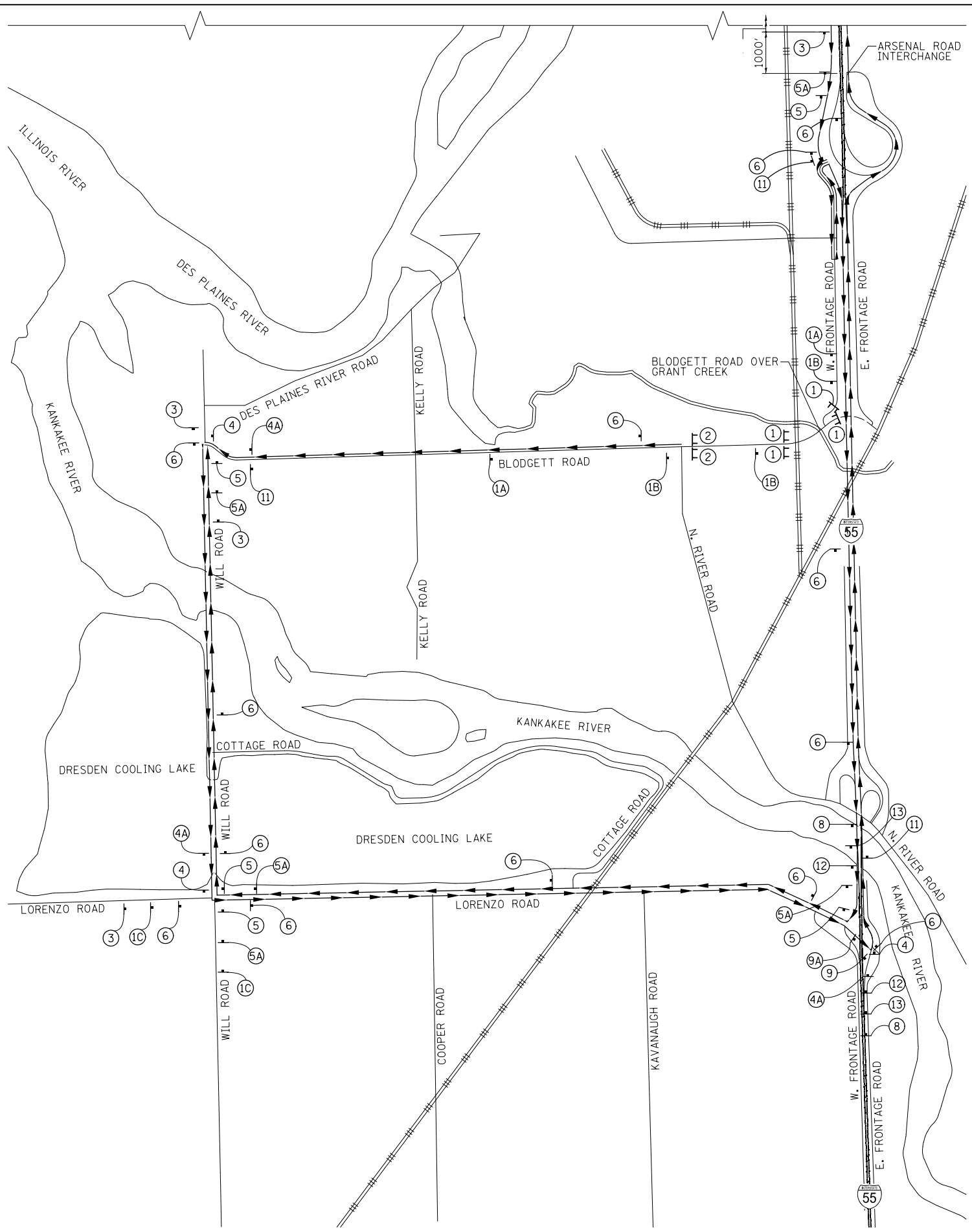
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION &  
 TRAFFIC CONTROL**

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	31
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				

NOTE: Name of file: F:\S\1313\Blodgett\Submittals\Comments\2014\_04\_23 Post\In3\Revisions\Cad Files\CAD\Sheets\0160556-sh-t-s-top.mxd



<p>① ROAD CLOSED R11-2-4830 MOUNTED ABOVE TYPE III BARRICADE</p> <p>①A ROAD CLOSED AHEAD W20-3-48</p> <p>①B ROAD CLOSED 500 FT W20-3-48</p>	<p>①C DETOUR AHEAD W20-2-48</p> <p>② ROAD CLOSED TO THRU TRAFFIC R11-4-6030 MOUNTED ABOVE TYPE III BARRICADE</p> <p>③ BLODGETT ROAD CLOSED AT GRANT CREEK USE DETOUR 48" x 42"</p>	<p>④ 48" x 12" BLODGETT ROAD DETOUR M4-9 4836</p> <p>④A 48" x 12" BLODGETT ROAD DETOUR 48" x 42"</p> <p>⑤ 48" x 12" BLODGETT ROAD DETOUR M4-9 4836</p> <p>⑤A 48" x 12" BLODGETT ROAD DETOUR 48" x 42"</p> <p>⑥ 48" x 12" BLODGETT ROAD DETOUR 48" x 42"</p>	<p>⑦ BLODGETT ROAD CLOSED AT GRANT CREEK USE LORENZO ROAD 48" x 42" FOR USE ON FAI 55 - NOT W. FRONTAGE RD.</p> <p>⑧ BLODGETT ROAD DETOUR USE LORENZO ROAD EXIT 48" x 42" FOR USE ON FAI 55 - NOT W. FRONTAGE RD.</p> <p>⑨ 48" x 24" BLODGETT ROAD TO I-55 NORTH DETOUR M4-9 4836</p> <p>⑨A 48" x 24" BLODGETT ROAD TO I-55 NORTH DETOUR 48" x 42"</p>	<p>⑩ 48" x 24" BLODGETT ROAD TO I-55 NORTH DETOUR M4-9 4836</p> <p>⑪ END DETOUR M4-8A</p> <p>⑫ 48" x 12" BLODGETT ROAD DETOUR 48" x 42"</p> <p>⑬ 48" x 12" BLODGETT ROAD DETOUR 48" x 42"</p>
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**LEGEND**

- ⊥ POST MOUNTED SIGN
- ⊥ TYPE III BARRICADE
- ↔ REGIONAL DETOUR ROUTE

## DETOUR PLAN

**BLOOM COMPANIES, LLC**  
Infrastructure Development and Engineering  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 676-8500 Fax: (312) 876-8600

USER NAME = makrent	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 3000.0000' / in.	CHECKED - LSA	REVISED -
PLOT DATE = 5/12/2014	DATE - 12/4/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL**

SCALE: N.T.S.    SHEET 2 OF 3 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	32
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



**TRAFFIC DETOUR ROUTE NOTES**

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 , DISTRICT DETAIL TC-21 THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. PAYMENT FOR PLACEMENT, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THIS DETOUR SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR IS IN EFFECT.
4. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING AND MAINTENANCE PRIOR TO THE START OF WORK.
5. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
6. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
7. ALL ROAD CLOSURE SIGNING SHALL BE MOUNTED AS INDICATED AND IN ACCORDANCE WITH ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS.
8. ALL ROAD CLOSURE SIGNING EXCEPT REGULATORY SIGNS AND I-55 ROUTE SHIELDS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS. ALL ROAD CLOSURE SIGNING SHALL BE NEW OR LIKE NEW CONDITION.
9. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE ROAD CLOSURE SIGNING SHALL MEET THE REQUIREMENTS FOR A TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
10. THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH EACH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON THE BACK OF THE BARRICADE. THE "ROAD CLOSED TO THRU TRAFFIC" SIGN SHALL BE MOUNTED ACCORDING TO DISTRICT DETAIL TC - 21.
11. THE "ROAD CLOSED" SIGN ON A TYPE III BARRICADE SHALL BE MOUNTED ACCORDING TO DISTRICT DETAIL TC-21. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A - LOW INTENSITY FLASHING LIGHTS.
12. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES AND NEVER IN FRONT OF THE BARRICADES OR ANY SIGNING. IN ANY EVENT, ARTICLES 701 THRU 703 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
13. THE CONTRACTOR SHALL NOTE THAT SEPARATE CONTRACTS MAY BE UNDER CONSTRUCTION DURING THIS CONTRACT. THE CONTRACTOR WILL COORDINATE TO MINIMIZE DISRUPTION TO THIS OR THE OTHER CONTRACTS. PARTICULAR ATTENTION IS DRAWN TO CONTRACT 60R62 - I-55 OVER THE DES PLAINES RIVER. THE BLODGETT ROAD STRUCTURE OVER I-55 MAY BE REMOVED WHILE THAT PROJECT IS ON-GOING. THE BLODGETT ROAD DETOUR CANNOT BE IMPLEMENTED UNTIL COMPLETION OF TRAFFIC CONTROL FOR I-55 OVER DES PLAINES RIVER - EXPECTED JULY 2014.

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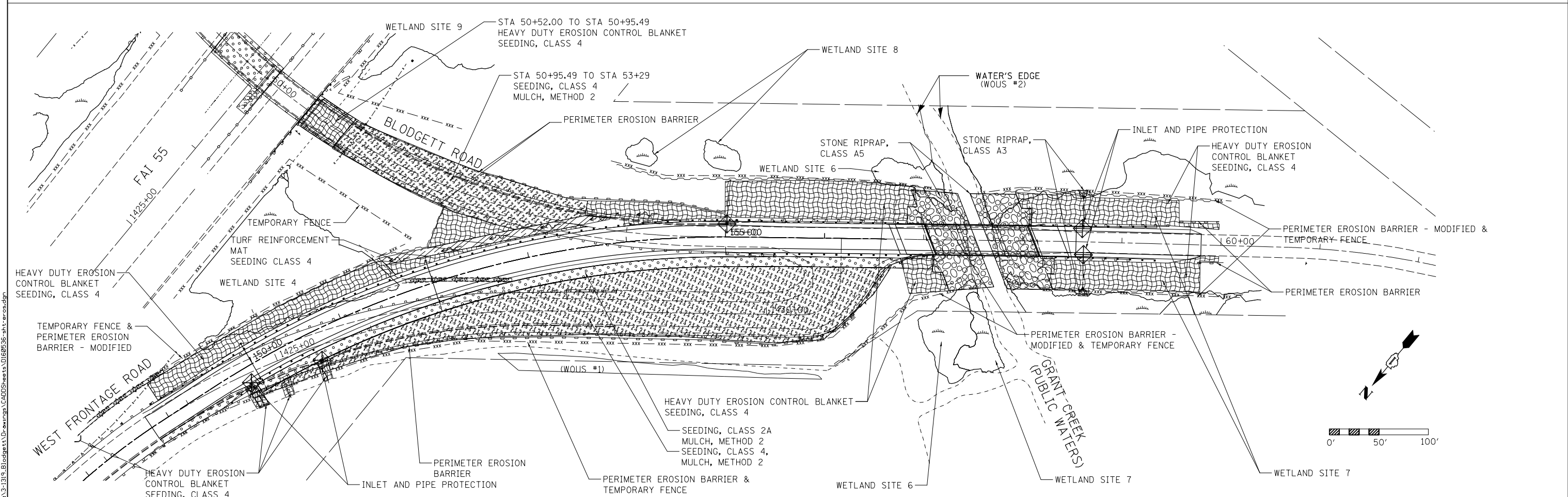
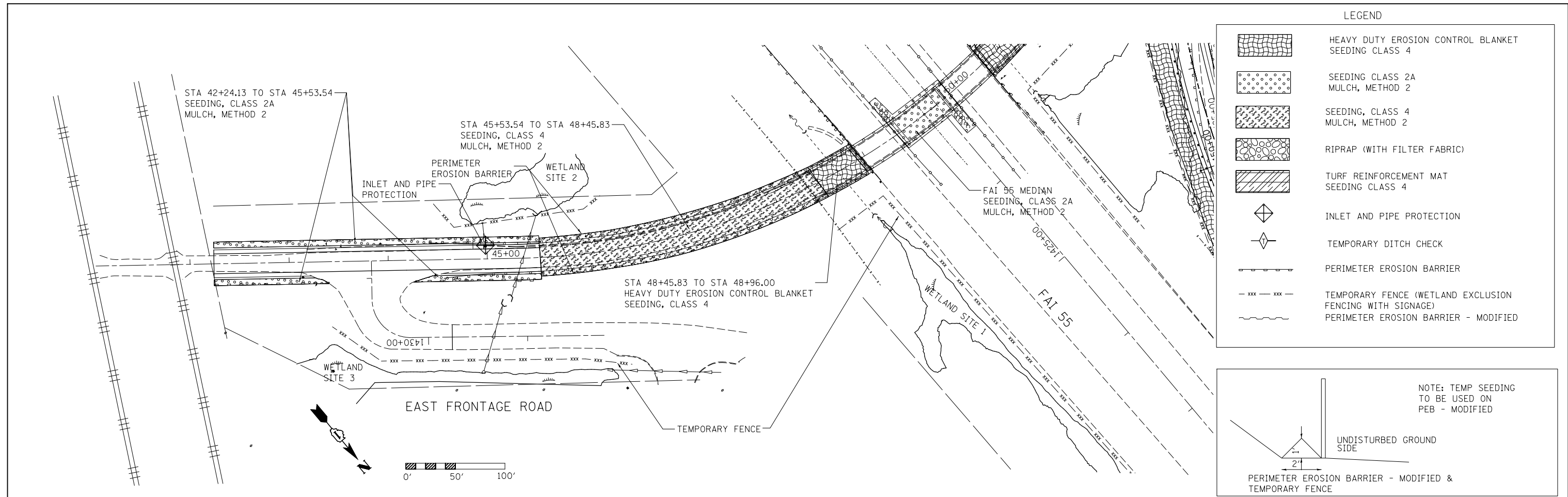
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

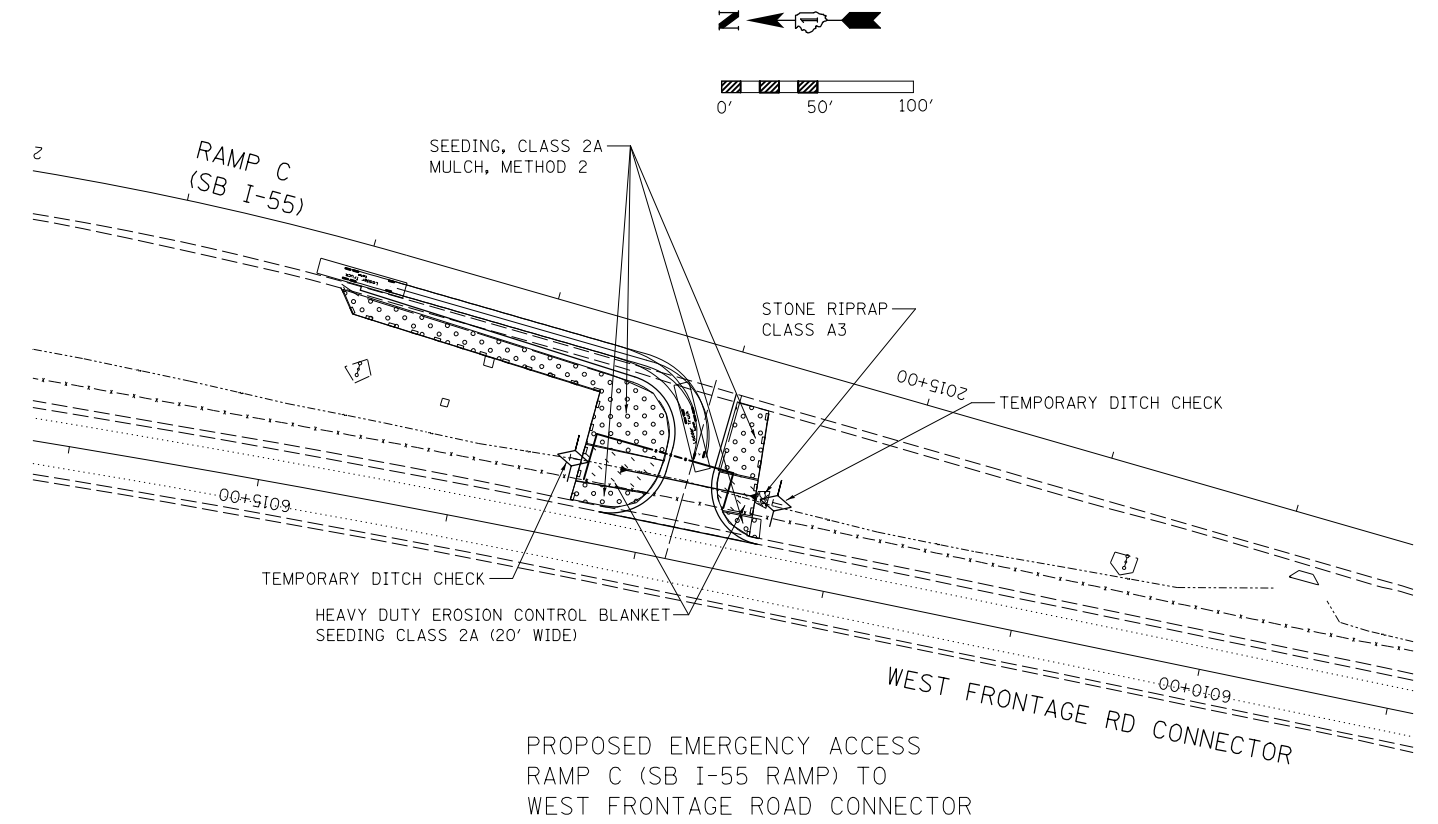
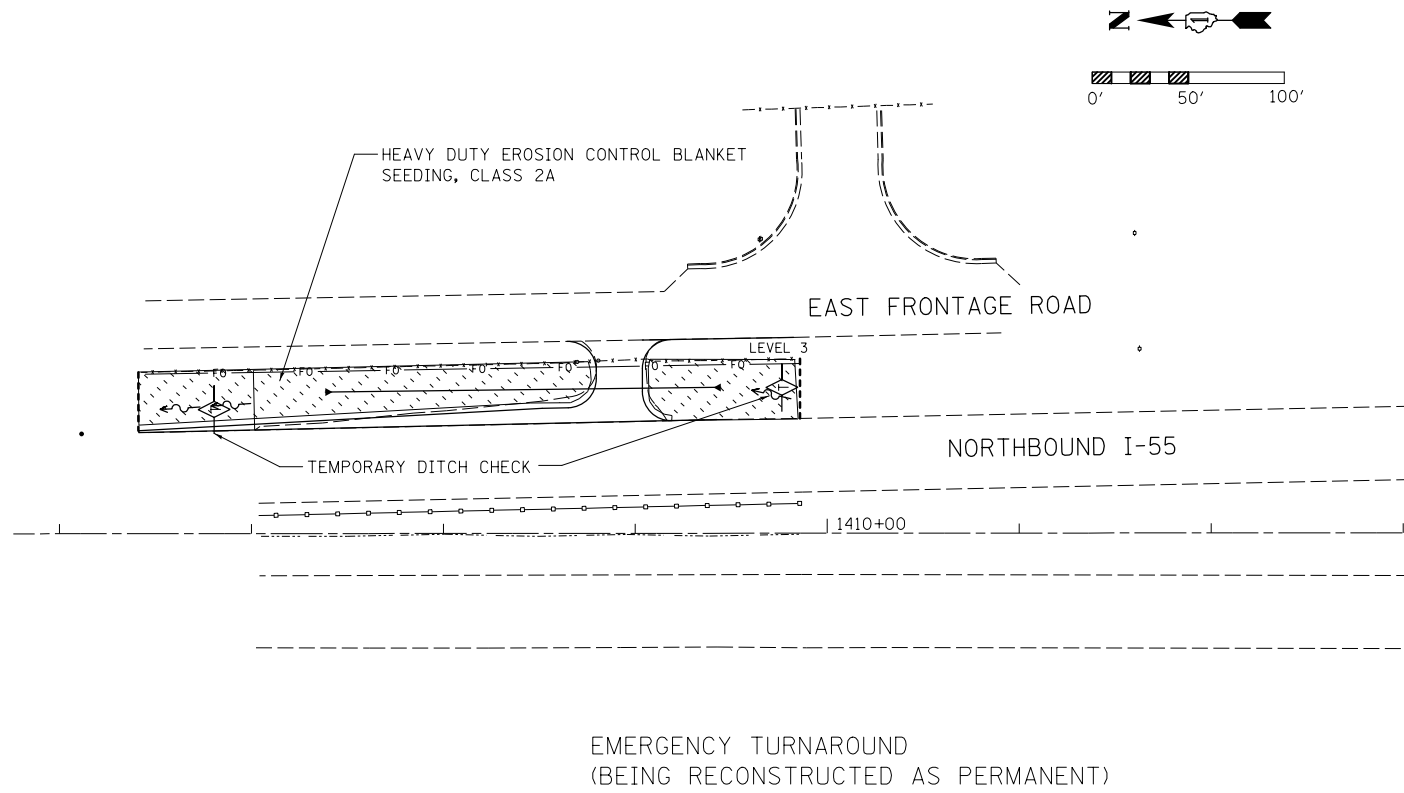
**BLODGETT ROAD OVER GRANT CREEK  
DETOUR ROUTING DETAIL NOTES**

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	33
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

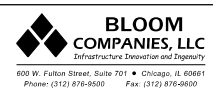


<p><b>BLOOM COMPANIES, LLC</b> Infrastructure Development and Engineering 600 W. Fulton Street, Suite 701 • Chicago, IL 60661 Phone: (312) 876-8500 Fax: (312) 876-8600</p>	USER NAME = tborges	DESIGNED - MMO	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>EROSION CONTROL PLAN</b></p> <p>SCALE: 1" = 50'    SHEET 1 OF 3 SHEETS    STA.    TO STA.</p>	F.A.I. RTE. = 55	SECTION = 99-2HB-31-3	COUNTY = WILL	TOTAL SHEETS = 87	SHEET NO. = 34
	PLOT SCALE = 100.0000' / 1"	CHECKED - LSA	REVISED -		CONTRACT NO. 60X60				
	PLOT DATE = 3/31/2014	DATE = 12/4/2013	REVISED -		ILLINOIS FED. AID PROJECT				



- NOTES:
1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
  2. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
  3. THE CONSTRUCTION LIMIT WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
  4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
  5. NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED DOWNSTREAM.
  6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
  7. DUE TO STEEP SLOPES AND LIMITED R.O.W., AREAS AVAILABLE FOR TOPSOIL STOCKPILING ARE LIMITED AND SUBJECT TO APPROVAL OF THE ENGINEER.
  8. TEMPORARY FENCE WILL BE USED AS WETLAND EXCLUSION FENCING AND "WETLAND NO INTRUSION" SIGNAGE POSTED AT THE BOUNDARY OF UN-IMPACTED WETLANDS WITHIN THE R.O.W. THE SIGNAGE IS AVAILABLE AT THE BUREAU OF MAINTENANCE (BOM) BY CONTACTING STEVE LIPKE (847-705-4173) TO ARRANGE PICK UP. SIGNS ARE TO BE RETURNED TO BOM AT THE END OF CONSTRUCTION. SIGN PICK UP, POSTING AND RETURN WILL BE INCLUDED IN THE COST OF TEMPORARY FENCE.

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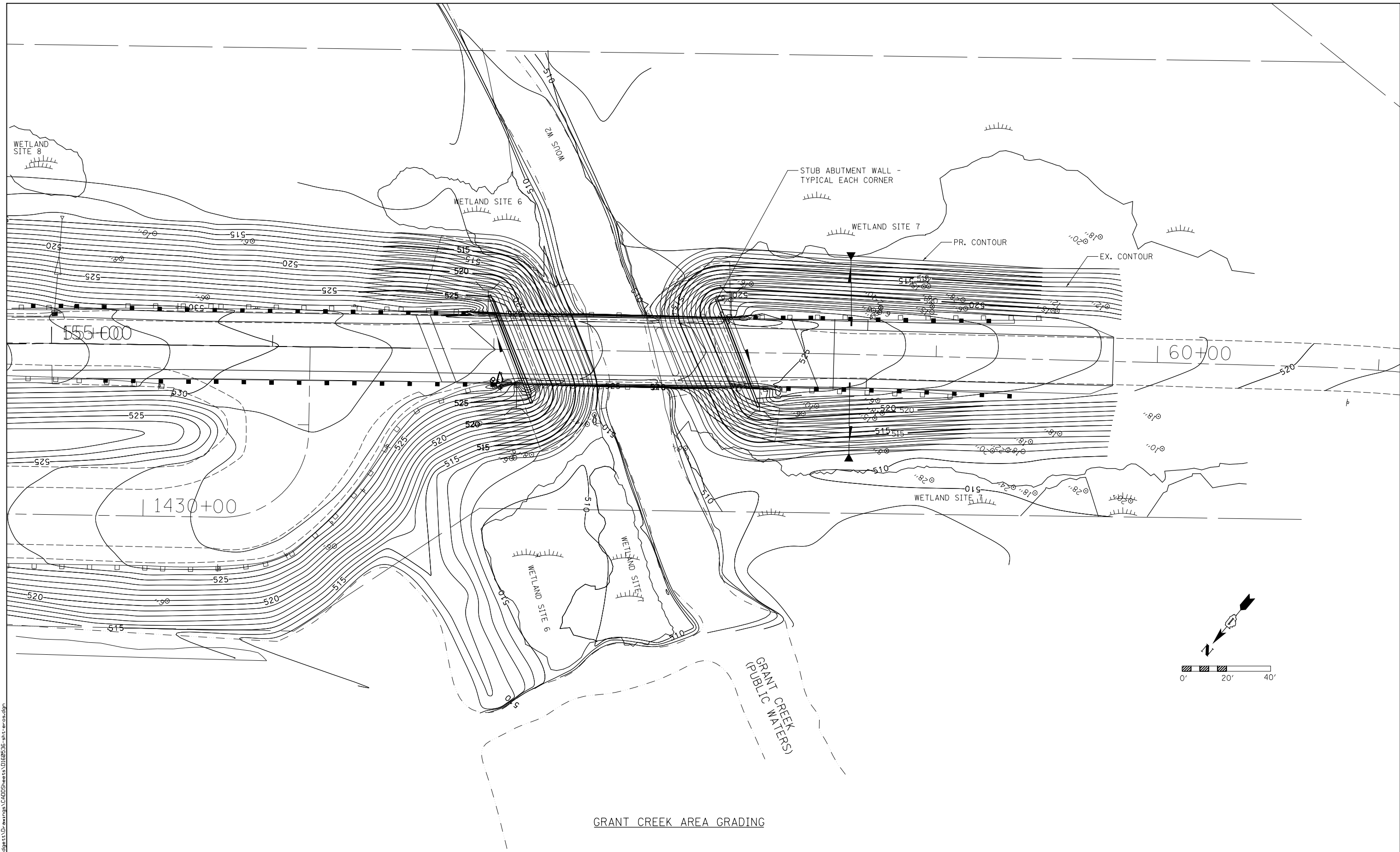
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	35
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



GRANT CREEK AREA GRADING

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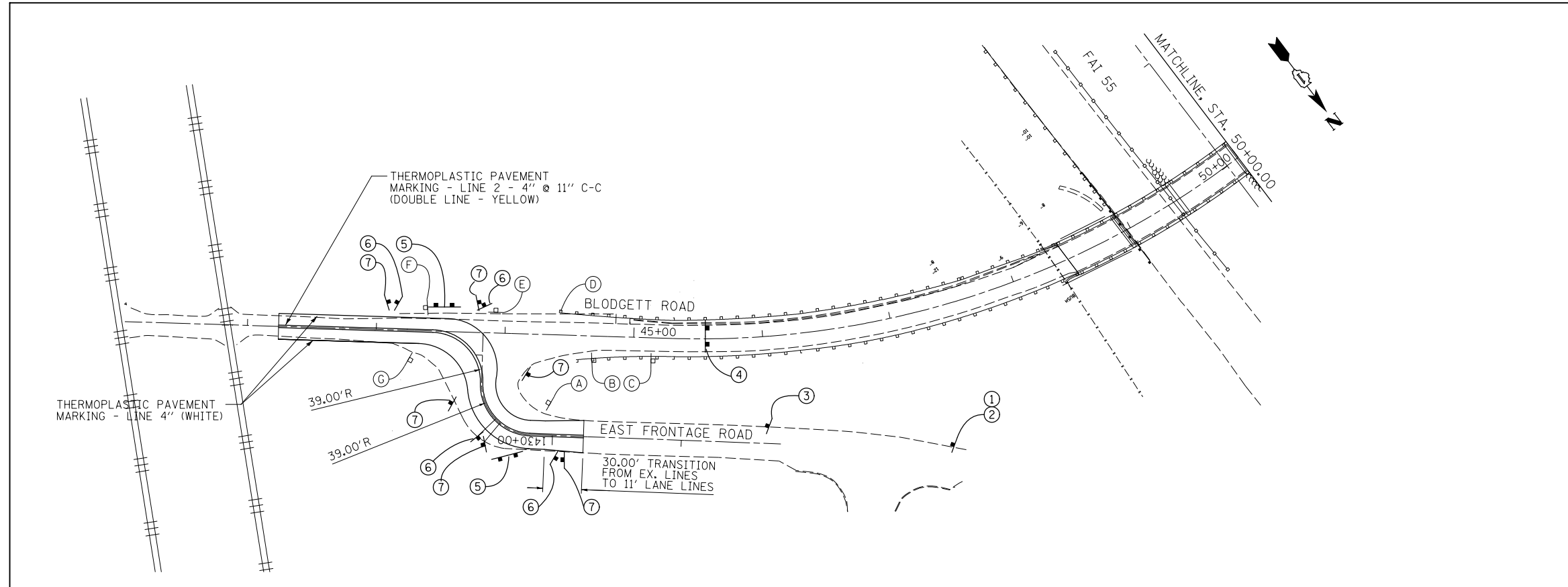
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
 GRANT CREEK AREA GRADING**

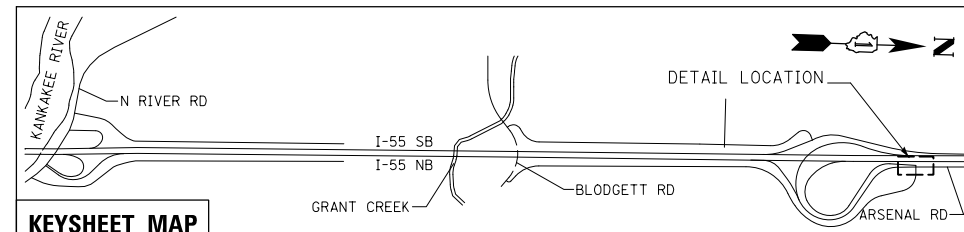
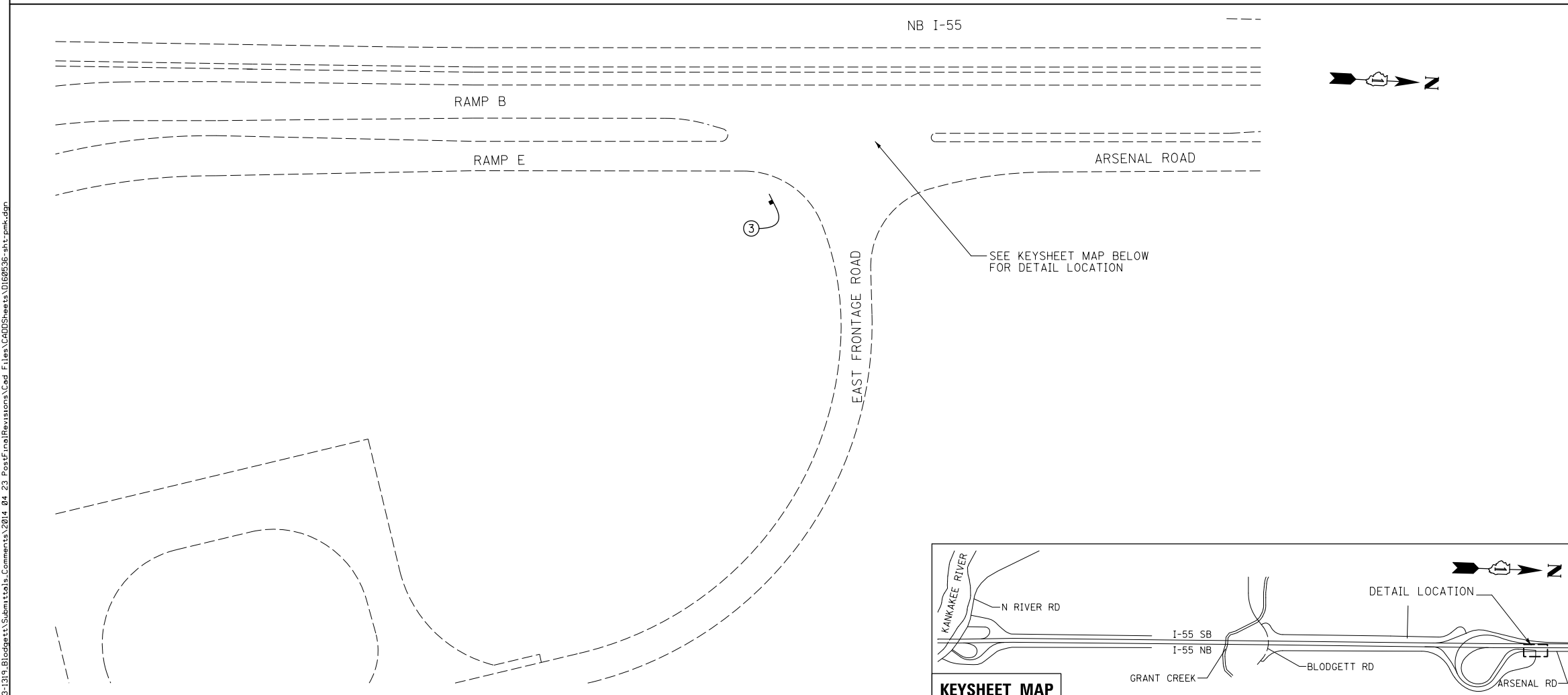
SCALE: 1" = 20'    SHEET 3 OF 3 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	36
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

EXISTING SIGNS & DISPOSITION		PROPOSED SIGNS	
(A) REMOVE	STOP	①	W1-3R 36" x 36"
(B) REMOVE	WEIGHT LIMIT 10 TONS AXLE 40 TONS GROSS	②	10 M.P.H. W-13-P 24" x 24"
(C) REMOVE	SPEED LIMIT 45	③	DEAD END W14-1 36" x 36"
(D) REMOVE	←	④	ROAD CLOSED R11-2 48" x 30"
(E) REMOVE	↔	⑤	← W1-6L 48" x 24"
(F) RETAIN	NO OUTLET	⑥	W1-BL 24" x 30"
(G) REMOVE	STOP	⑦	W1-BR 24" x 30"



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**BLOOM COMPANIES, LLC**  
 Infrastructure Development and Integrity  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 676-8500 Fax: (312) 876-8600

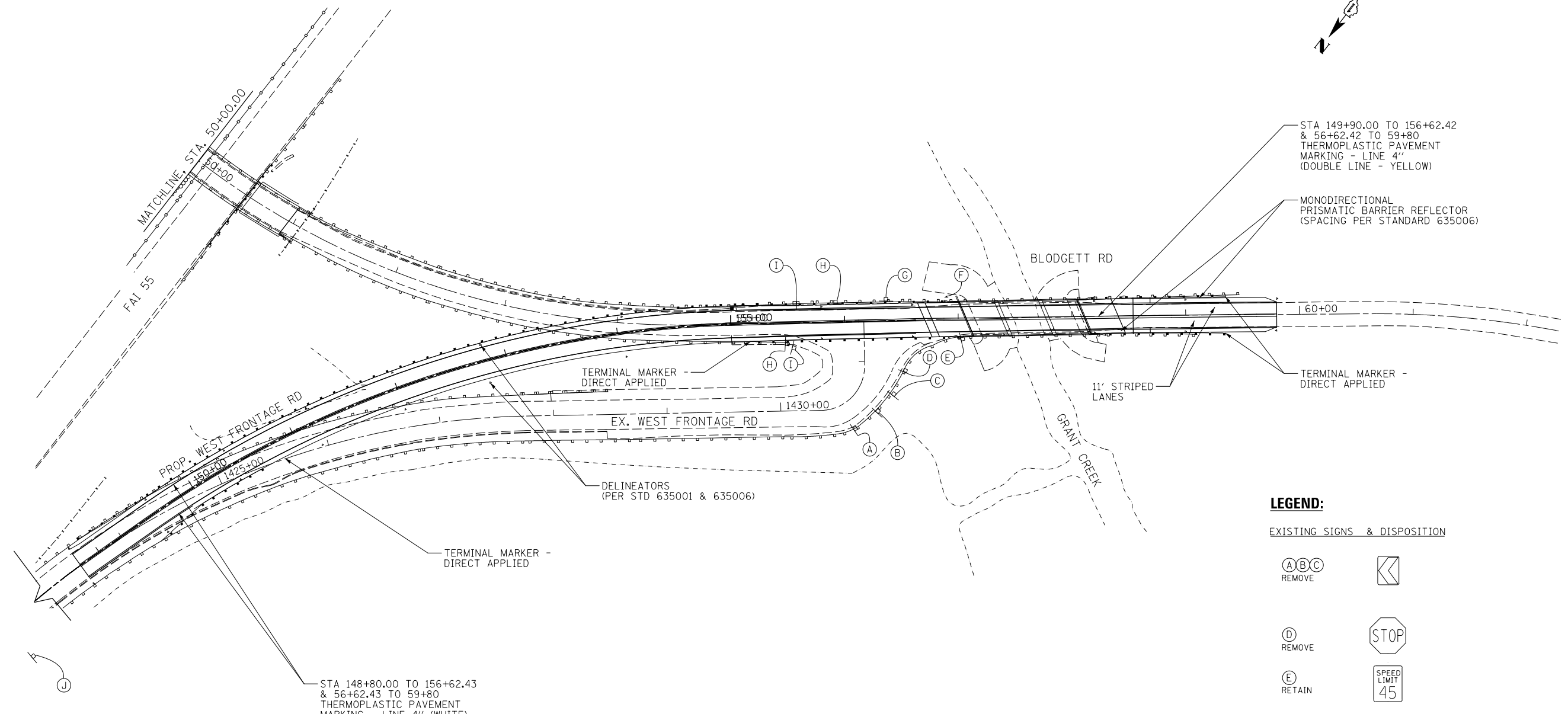
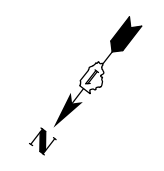
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	DATE - 9/25/2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING  
 AND SIGNING**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	37
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				



STA 149+90.00 TO 156+62.42  
& 56+62.42 TO 59+80  
THERMOPLASTIC PAVEMENT  
MARKING - LINE 4"  
(DOUBLE LINE - YELLOW)

MONODIRECTIONAL  
PRISMATIC BARRIER REFLECTOR  
(SPACING PER STANDARD 635006)

TERMINAL MARKER  
DIRECT APPLIED

TERMINAL MARKER -  
DIRECT APPLIED

DELINEATORS  
(PER STD 635001 & 635006)

TERMINAL MARKER -  
DIRECT APPLIED

STA 148+80.00 TO 156+62.43  
& 56+62.43 TO 59+80  
THERMOPLASTIC PAVEMENT  
MARKING - LINE 4" (WHITE)  
12' LANES TO STA 155+10.14  
TRANSITION TO 11' LANES AT  
STA 155+60.14

**LEGEND:**

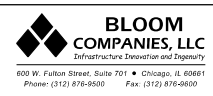
EXISTING SIGNS & DISPOSITION

- (A)(B)(C) REMOVE
- (D) REMOVE
- (E) RETAIN
- (F) REMOVE
- (G) REMOVE
- (H) REMOVE
- (I) RETAIN
- (J) REMOVE

NOTES:

- "NO U-TURN EXCEPT AUTHORIZED VEHICLES" SIGN AT EXISTING I-55 CROSSOVER TO BE RELOCATED TO PROPOSED CROSSOVER. (SEE CROSS-OVER PLAN SHEETS FOR DETAILS)

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PLOT DATE = 3/31/2014	CHECKED - MMO	REVISED -
	DATE - 9/25/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING  
AND SIGNING**

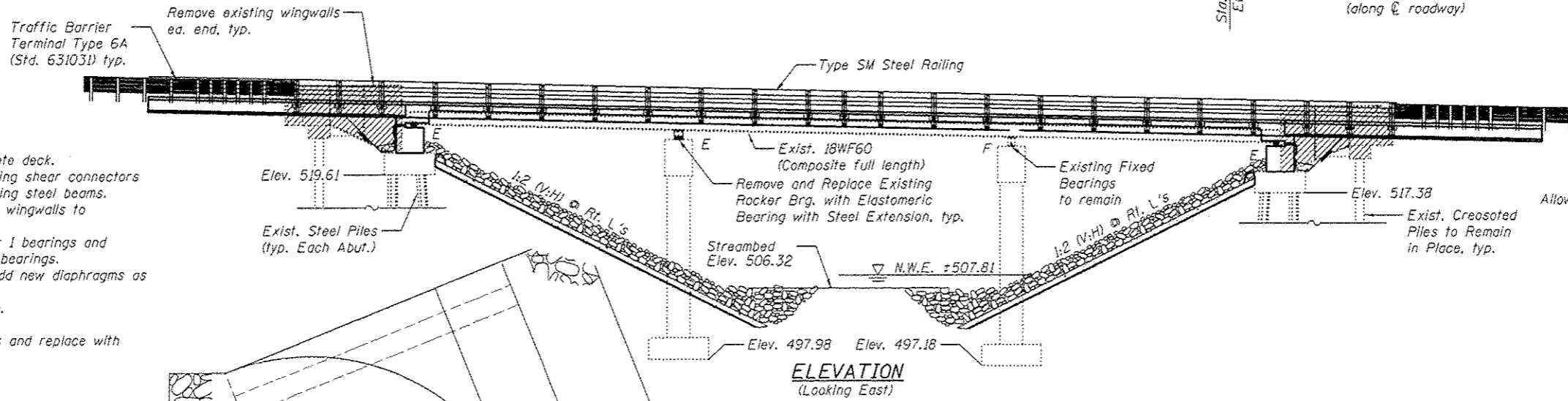
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 155+00 TO STA. 160+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	38
CONTRACT NO. 60X60				ILLINOIS FED. AID PROJECT

Bench Mark: Chiseled square on northeast wingwall of existing bridge over grant creek, Elev. 529.61

Existing Structure: S.N. 099-0181 was constructed in 1961 as part of the local highway system. The superstructure consists of a 2" concrete wearing surface atop a 6 1/2" reinforced non-composite concrete deck with a 22 deg. right forward skew. The bridge is 105'-3 3/4" back to back of abutments and 31'-8" out to out deck width, supported on a three continuous-span steel beam superstructure. The spans are made up of seven, 18WF60, steel wide flange beams spaced at 4'-7". The substructure is comprised of two pile bent abutments, with adjoining wingwalls running parallel to the centerline of the structure and two hammerhead piers on spread footings on rock. Bridge to be closed during construction.

No salvage.



STATION 57+58.98  
RE-BUILT 2013 BY  
STATE OF ILLINOIS  
F.A.I. RTE. 55 SEC. 99-2HB-31-3  
LOADING H20-44  
STRUCTURE NO. 099-0181

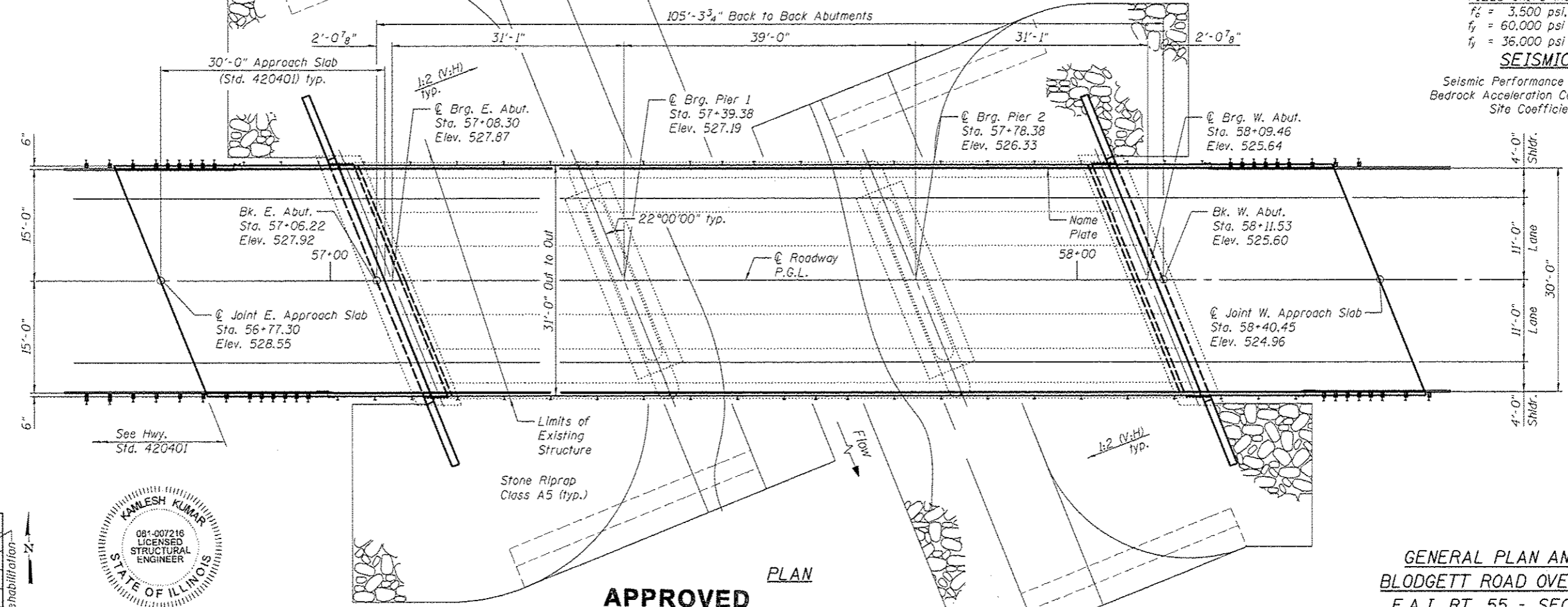
**NAME PLATE**  
See Std. 515001  
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

**LOADING HS20-44**  
Allow 25#/sq. ft. for future wearing surface.  
**DESIGN SPECIFICATIONS**  
(New Construction)  
2002 AASHTO

**DESIGN STRESSES**  
**FIELD UNITS (Exist. Construction)**  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 40,000 psi (Reinforcement)  
f<sub>y</sub> = 33,000 psi (Structural Steel)  
**FIELD UNITS (New Construction)**  
f<sub>c</sub> = 3,500 psi, 5,000 psi (28 Days)  
f<sub>y</sub> = 60,000 psi (Reinforcement)  
f<sub>y</sub> = 36,000 psi (Structural Steel)  
**SEISMIC DATA**  
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.04g  
Site Coefficient (S) = 1.0

**SCOPE OF WORK**

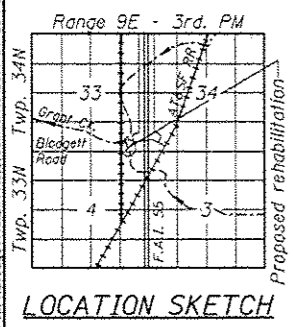
1. Remove and replace existing concrete deck.
2. Make new deck composite by providing shear connectors along the entire length of the existing steel beams.
3. Reconfigure existing abutments and wingwalls to semi-integral configuration.
4. Remove existing abutments and pier 1 bearings and replace with elastomeric expansion bearings.
5. Remove existing end diaphragms. Add new diaphragms as shown.
6. Repair substructure units as shown.
7. Construct approach slabs.
8. Remove existing concrete stopwalls and replace with riprap.
9. Clean and paint existing beams.



**GENERAL PLAN AND ELEVATION**  
**BLODGETT ROAD OVER GRANT CREEK**  
F.A.I. RT. 55 - SEC. 99-2HB-31-3  
WILL COUNTY  
STATION 57+58.98  
STRUCTURE NO. 099-0181

**KAMLESH KUMAR**  
081-007216  
LICENSED  
STRUCTURAL  
ENGINEER  
STATE OF ILLINOIS  
SIGNATURE: [Signature]  
DATE: 06/07/2013  
EXPIRES: 11/30/2014

**APPROVED**  
For Structural Adequacy Only  
[Signature]  
Engineer of Bridges & Structures



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<p><b>BLOOM COMPANIES, LLC</b> 442 W. Fourth Street, Suite 127 • Chicago, IL 60608 Phone: (312) 464-9900 Fax: (312) 464-9800</p>	USER NAME: mkhans	DESIGNED - BCM	REVISOR	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>GENERAL PLAN &amp; ELEVATION</b> <b>STRUCTURE NO. 099-0181</b></p>	F.A.I. RTE. 55	SECTION 99-2HB-31-3	COUNTY WILL	TOTAL SHEETS 87	SHEET NO. 39
	PLOT SCALE: N/A	CHECKED - KO	REVISION			CONTRACT NO. 60X60				
	PLOT DATE: 5/8/2014	DRAWN - KO	REVISION			ILLINOIS FED. AIG PROJECT				
	CHECKED - 8/23/2012	REVISION		SHEET NO. 51 OF 520 SHEETS						

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4" φ, holes 5/16 in. φ, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All structural steel, including beams, diaphragms, and other structural steel within 5 ft (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15.

The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1- OZ/E/U. The color of the final finish coat for all interior steel surfaces and exterior and bottom flange of the fascia beams shall be Gray, Munsell No 5B 7/1.

See Sheet S19 of S20 for riprap placement details.

Estimated weight of structural steel to be removed is 2078 pounds.

A minimum of one air monitor will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."

The SSPC QP-1 and QP-2 Painting Contractor Certifications are required for this contract.

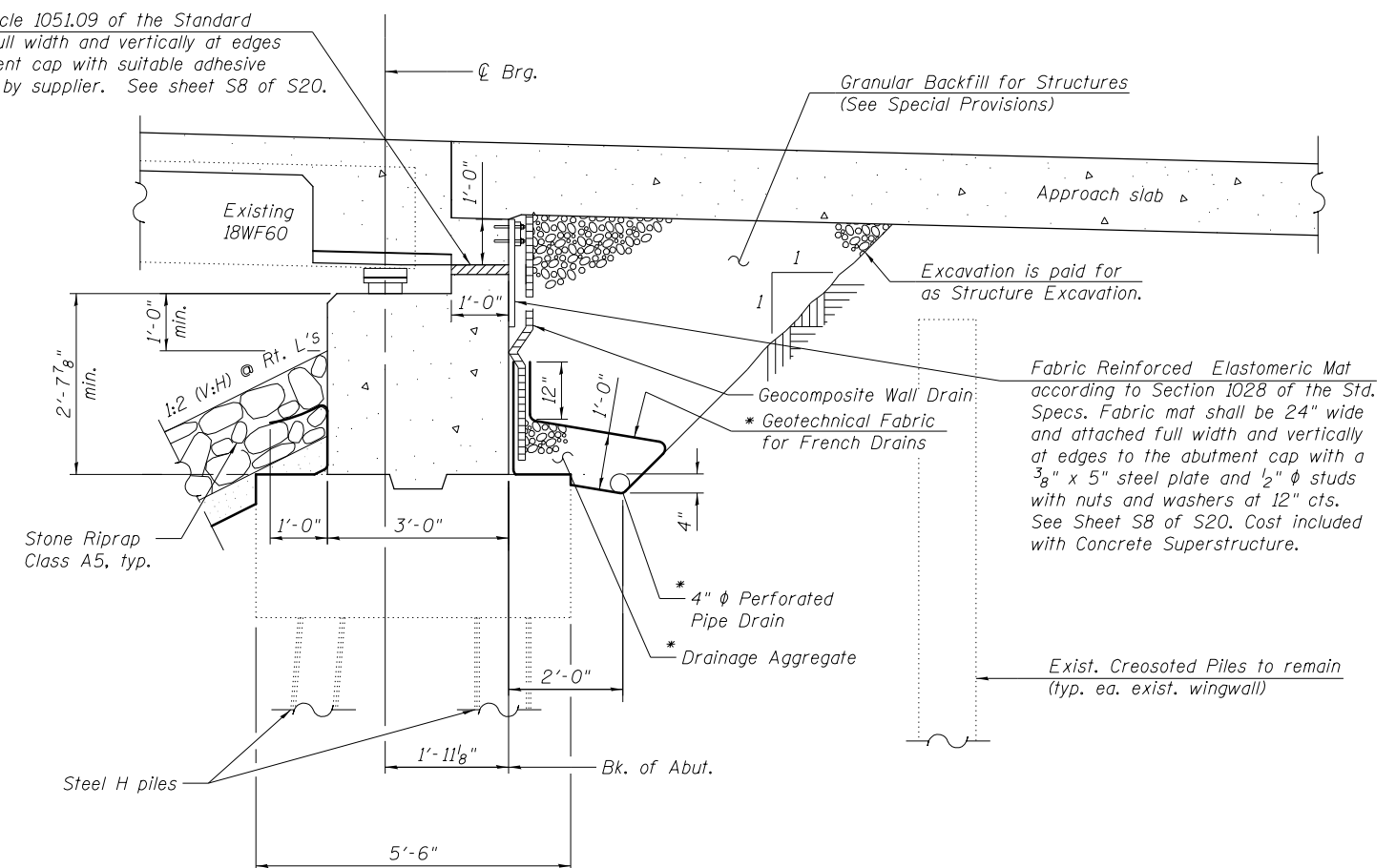
**INDEX OF SHEETS**

S1	General Plan & Elevation
S2	General Data
S3	Top Of Slab Elevations - I
S4	Top Of Slab Elevations - II
S5	Top Of Approach Slab Elevations
S6	Deck Plan & Cross Section
S7	Superstructure Details - I
S8	Superstructure Details - II
S9	Bridge Approach Slab Details - I
S10	Bridge Approach Slab Details - II
S11	Steel Railing, Type SM With Curb
S12	Framing Plan
S13	Structural Steel Detail & Moment Tables
S14	Bearing Details
S15	Abutment Concrete Removal
S16	East Abutment
S17	West Abutment
S18	Pier Details
S19	Slope Wall Removal And Replacement
S20	Cantilever Forming Brackets For Superstructures With W27 Beams and Smaller

**BILL OF MATERIALS**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq Yd		1005	1005
Filter Fabric	Sq Yd		937	937
Concrete Removal	Cu Yd		44.6	44.6
Slope Wall Removal	Sq Yd		1009	1009
Removal of Existing Concrete Deck	Each	1		1
Structure Excavation	Cu Yd		89	89
Concrete Structures	Cu Yd		53.0	53.0
Concrete Superstructure	Cu Yd	228.3		228.3
Bridge Deck Grooving	Sq Yd	509		509
Protective Coat	Sq Yd	576		576
Furnishing and Erecting Structural Steel	Pound	5280		5280
Stud Shear Connectors	Each	1890		1890
Reinforcement Bars, Epoxy Coated	Pound	48080	8940	57020
Steel Railing, Type SM	Foot	272		272
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each	21		21
Anchor Bolts, 5/8"	Each	14		14
Anchor Bolts, 1"	Each	28		28
Geocomposite Wall Drain	Sq Yd		62	62
Granular Backfill for Structures	Cu Yd		67	67
Jack and Remove Existing Bearings	Each	21		21
Structural Steel Removal	L Sum	1		1
Containment and Disposal of Lead Paint Cleaning Residues	L Sum	1		1
Cleaning and Painting Steel Bridge No. 1	L Sum	1		1
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft		34	34
Pipe Underdrains for Structures 4"	Foot		108	108

2" PJF (per Article 1051.09 of the Standard Specifications) full width and vertically at edges bonded to abutment cap with suitable adhesive as recommended by supplier. See sheet S8 of S20.



**SECTION THRU SEMI-INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\* Included in the cost of Pipe Underdrains for Structures 4" (See Special Provisions)

Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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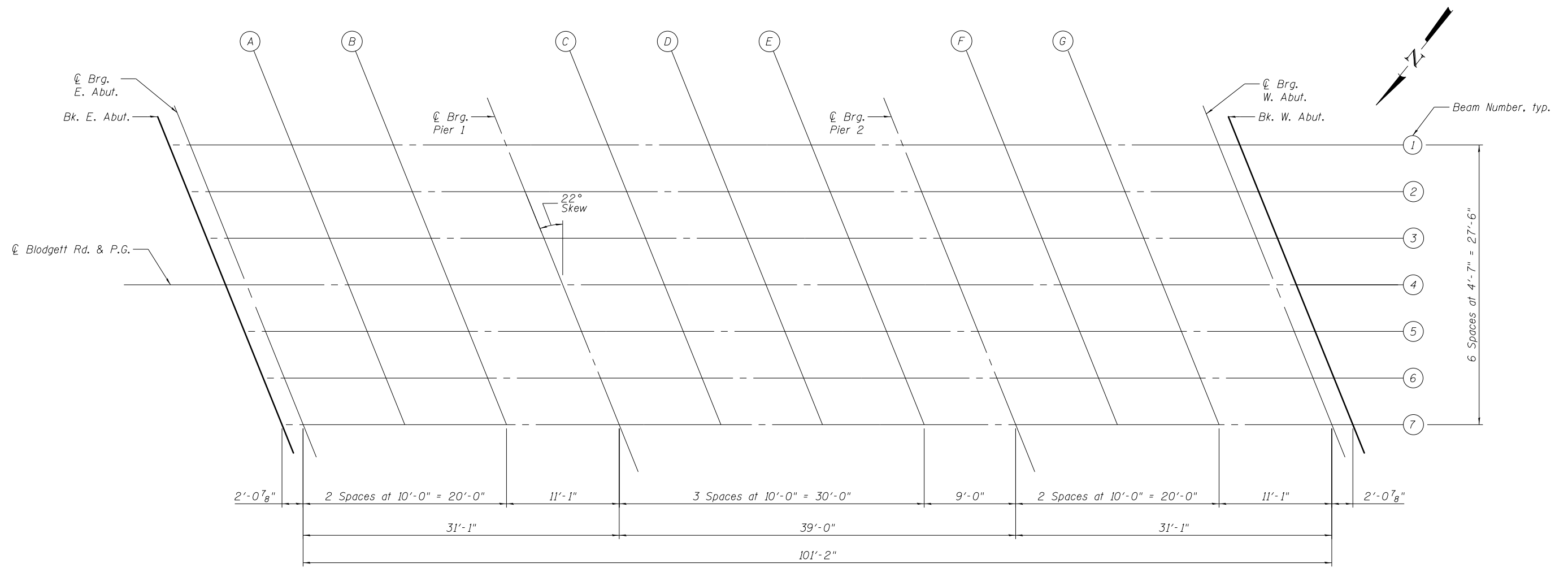
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

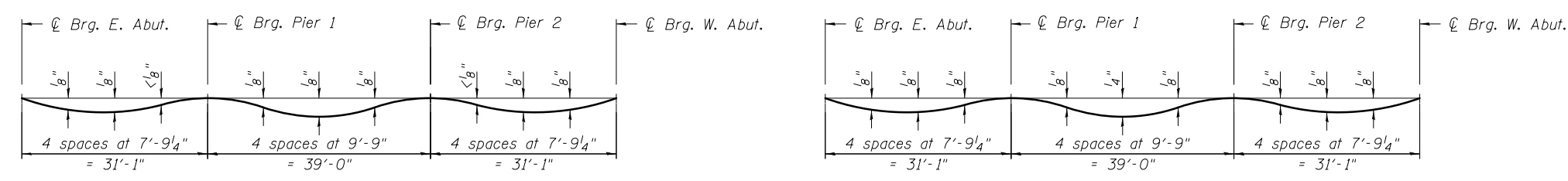
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STRUCTURE NO. 099-0181**  
SHEET NO. S2 OF S20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	40
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	





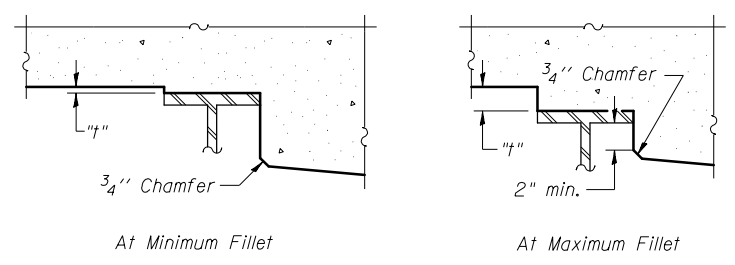
**PLAN**



**INTERIOR BEAM DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only.)

**EXTERIOR BEAM DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections on Sheets S3 and S4.



**FILLET HEIGHTS**

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets S3 thru S4, minus deck thickness, equals the fillet heights "t" above top flange of beams.

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+00.66	-13.75	527.81	527.81
∅ Brg. E. Abut.	57+02.74	-13.75	527.77	527.77
A	57+12.74	-13.75	527.55	527.56
B	57+22.74	-13.75	527.32	527.34
∅ Brg. Pier 1	57+33.82	-13.75	527.08	527.08
C	57+43.82	-13.75	526.86	526.87
D	57+53.82	-13.75	526.64	526.66
E	57+63.82	-13.75	526.42	526.43
∅ Brg. Pier 2	57+72.82	-13.75	526.22	526.22
F	57+82.82	-13.75	526.00	526.01
G	57+92.82	-13.75	525.78	525.80
∅ Brg. W. Abut.	58+03.91	-13.75	525.54	525.54
Bk. W. Abut.	58+05.97	-13.75	525.49	525.49

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**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+02.52	-9.17	527.86	527.86
☉ Brg. E. Abut.	57+04.59	-9.17	527.81	527.81
A	57+14.59	-9.17	527.59	527.61
B	57+24.59	-9.17	527.37	527.38
☉ Brg. Pier 1	57+35.68	-9.17	527.13	527.13
C	57+45.68	-9.17	526.91	526.92
D	57+55.68	-9.17	526.69	526.71
E	57+65.68	-9.17	526.47	526.48
☉ Brg. Pier 2	57+74.68	-9.17	526.27	526.27
F	57+84.68	-9.17	526.05	526.06
G	57+94.68	-9.17	525.83	525.84
☉ Brg. W. Abut.	58+05.76	-9.17	525.58	525.58
Bk. W. Abut.	58+07.83	-9.17	525.54	525.54

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+04.37	-4.58	527.89	527.89
☉ Brg. E. Abut.	57+06.44	-4.58	527.84	527.84
A	57+16.44	-4.58	527.62	527.64
B	57+26.44	-4.58	527.40	527.41
☉ Brg. Pier 1	57+37.53	-4.58	527.16	527.16
C	57+47.53	-4.58	526.94	526.95
D	57+57.53	-4.58	526.72	526.74
E	57+67.53	-4.58	526.50	526.51
☉ Brg. Pier 2	57+76.53	-4.58	526.30	526.30
F	57+86.53	-4.58	526.08	526.09
G	57+96.53	-4.58	525.86	525.87
☉ Brg. W. Abut.	58+07.61	-4.58	525.61	525.61
Bk. W. Abut.	58+09.68	-4.58	525.57	525.57

**BEAM 4, ☉ BLODGETT RD. & P.G.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+06.22	0.00	527.92	527.92
☉ Brg. E. Abut.	57+08.30	0.00	527.87	527.87
A	57+18.30	0.00	527.65	527.67
B	57+28.30	0.00	527.43	527.44
☉ Brg. Pier 1	57+39.38	0.00	527.19	527.19
C	57+49.38	0.00	526.97	526.98
D	57+59.38	0.00	526.75	526.77
E	57+69.38	0.00	526.53	526.54
☉ Brg. Pier 2	57+78.38	0.00	526.33	526.33
F	57+88.38	0.00	526.11	526.12
G	57+98.38	0.00	525.89	525.90
☉ Brg. W. Abut.	58+09.46	0.00	525.64	525.64
Bk. W. Abut.	58+11.53	0.00	525.60	525.60

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+08.07	4.58	527.81	527.81
☉ Brg. E. Abut.	57+10.15	4.58	527.76	527.76
A	57+20.15	4.58	527.54	527.55
B	57+30.15	4.58	527.32	527.33
☉ Brg. Pier 1	57+41.23	4.58	527.08	527.08
C	57+51.23	4.58	526.86	526.87
D	57+61.23	4.58	526.63	526.66
E	57+71.23	4.58	526.41	526.43
☉ Brg. Pier 2	57+80.23	4.58	526.22	526.22
F	57+90.23	4.58	526.00	526.01
G	58+00.23	4.58	525.78	525.79
☉ Brg. W. Abut.	58+11.32	4.58	525.53	525.53
Bk. W. Abut.	58+13.38	4.58	525.49	525.49

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+09.92	9.17	527.69	527.69
☉ Brg. E. Abut.	57+12.00	9.17	527.65	527.65
A	57+22.00	9.17	527.43	527.44
B	57+32.00	9.17	527.21	527.22
☉ Brg. Pier 1	57+43.08	9.17	526.96	526.96
C	57+53.08	9.17	526.74	526.76
D	57+63.08	9.17	526.52	526.54
E	57+73.08	9.17	526.30	526.31
☉ Brg. Pier 2	57+82.08	9.17	526.10	526.10
F	57+92.08	9.17	525.88	525.89
G	58+02.08	9.17	525.66	525.68
☉ Brg. W. Abut.	58+13.17	9.17	525.42	525.42
Bk. W. Abut.	58+15.23	9.17	525.37	525.37

**BEAM 7**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	57+11.78	13.75	527.57	527.57
☉ Brg. E. Abut.	57+13.85	13.75	527.52	527.52
A	57+23.85	13.75	527.30	527.32
B	57+33.85	13.75	527.08	527.09
☉ Brg. Pier 1	57+44.94	13.75	526.84	526.84
C	57+54.94	13.75	526.62	526.63
D	57+64.94	13.75	526.40	526.42
E	57+74.94	13.75	526.18	526.19
☉ Brg. Pier 2	57+83.94	13.75	525.98	525.98
F	57+93.94	13.75	525.76	525.77
G	58+03.94	13.75	525.54	525.55
☉ Brg. W. Abut.	58+15.02	13.75	525.29	525.29
Bk. W. Abut.	58+17.09	13.75	525.25	525.25

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PLOT DATE = 3/31/2014	CHECKED - 8/22/2012	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - II  
STRUCTURE NO. 099-0181**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	42
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				

SHEET NO. 54 OF 520 SHEETS

SOUTH EDGE OF SHOULDER

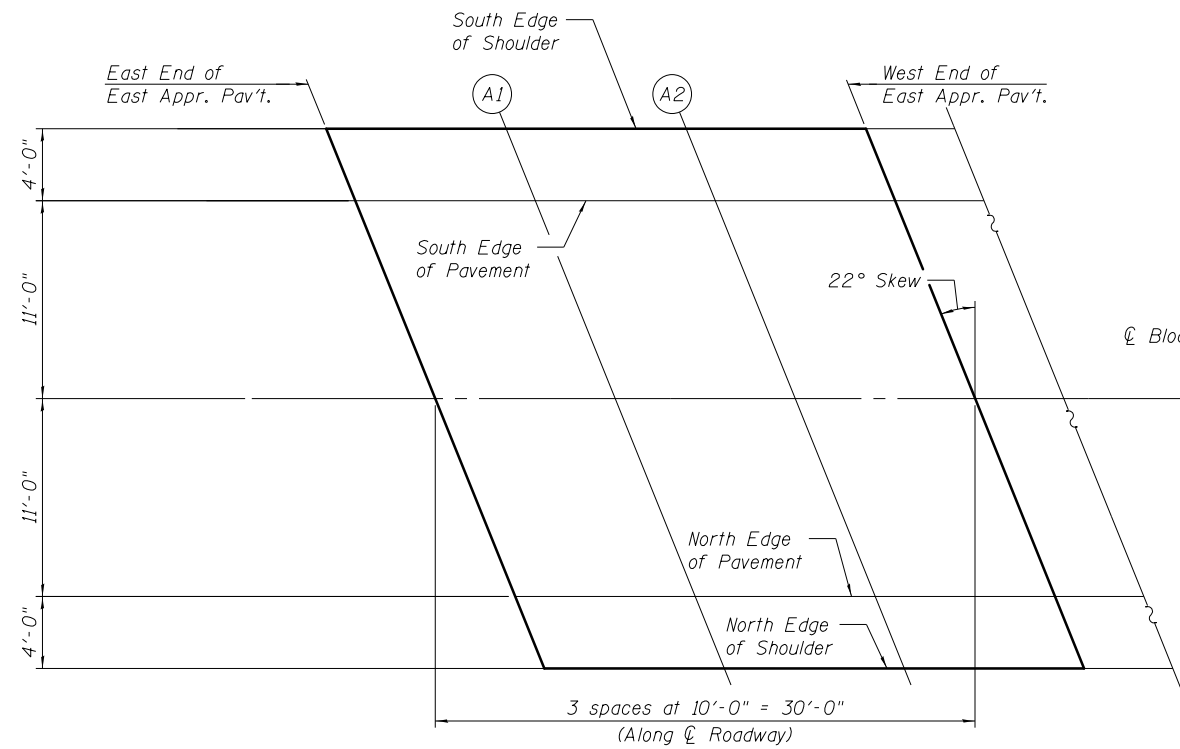
Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr. Pav't.	56+71.24	-15.00	528.43
A1	56+81.24	-15.00	528.21
A2	56+91.24	-15.00	527.99
W. End of E. Appr. Pav't.	57+01.24	-15.00	527.77
E. End of W. Appr. Pav't.	58+04.39	-15.00	525.50
A3	58+14.39	-15.00	525.28
A4	58+24.39	-15.00	525.06
W. End of W. Appr. Pav't.	58+34.39	-15.00	524.84

SOUTH EDGE OF PAVEMENT

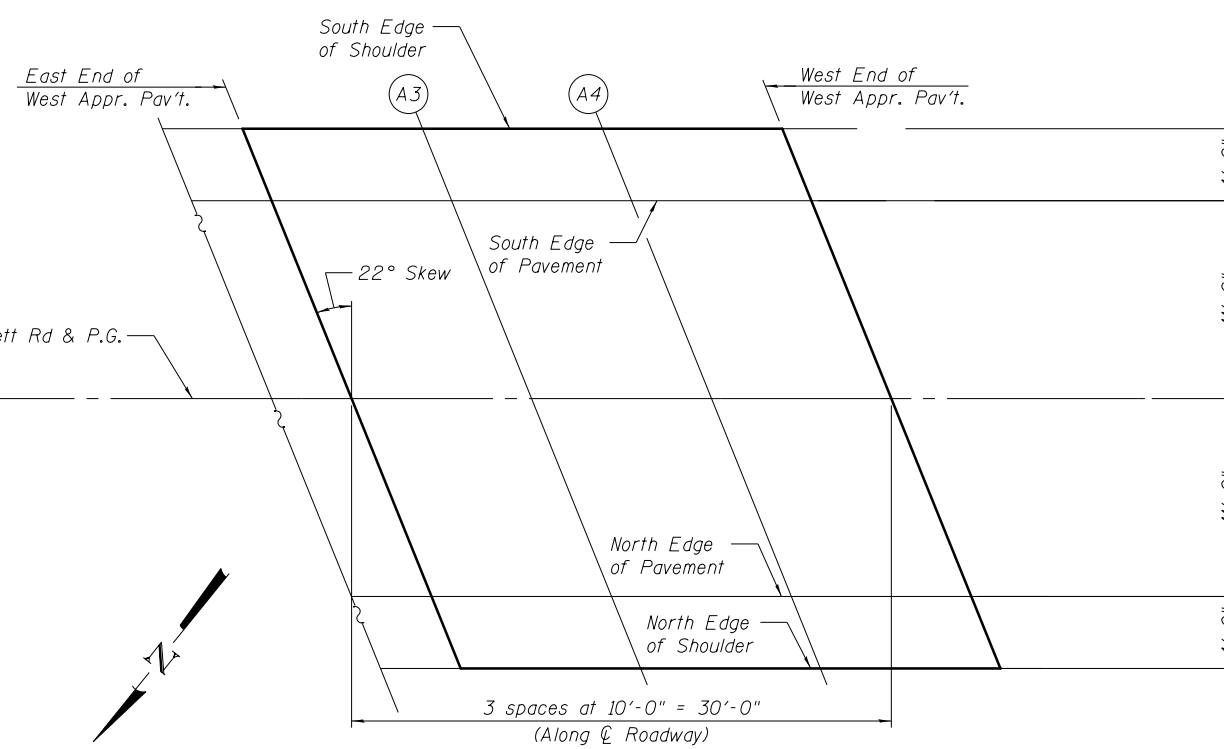
Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr. Pav't.	56+72.85	-11.00	528.48
A1	56+82.85	-11.00	528.26
A2	56+92.85	-11.00	528.04
W. End of E. Appr. Pav't.	57+02.85	-11.00	527.82
E. End of W. Appr. Pav't.	58+06.01	-11.00	525.55
A3	58+16.01	-11.00	525.33
A4	58+26.01	-11.00	525.11
W. End of W. Appr. Pav't.	58+36.01	-11.00	524.89

☐ OF ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr. Pav't.	56+77.30	0.00	528.55
A1	56+87.30	0.00	528.33
A2	56+97.30	0.00	528.11
W. End of E. Appr. Pav't.	57+07.30	0.00	527.89
E. End of W. Appr. Pav't.	58+10.45	0.00	525.62
A3	58+20.45	0.00	525.40
A4	58+30.45	0.00	525.18
W. End of W. Appr. Pav't.	58+40.45	0.00	524.96



PLAN



PLAN

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr. Pav't.	56+81.74	11.00	528.29
A1	56+91.74	11.00	528.06
A2	57+01.74	11.00	527.84
W. End of E. Appr. Pav't.	57+11.74	11.00	527.62
E. End of W. Appr. Pav't.	58+14.90	11.00	525.35
A3	58+24.90	11.00	525.13
A4	58+34.90	11.00	524.91
W. End of W. Appr. Pav't.	58+44.90	11.00	524.69

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr. Pav't.	56+83.36	15.00	528.17
A1	56+93.36	15.00	527.95
A2	57+03.36	15.00	527.73
W. End of E. Appr. Pav't.	57+13.36	15.00	527.51
E. End of W. Appr. Pav't.	58+16.51	15.00	525.23
A3	58+26.51	15.00	525.01
A4	58+36.51	15.00	524.79
W. End of W. Appr. Pav't.	58+46.51	15.00	524.57

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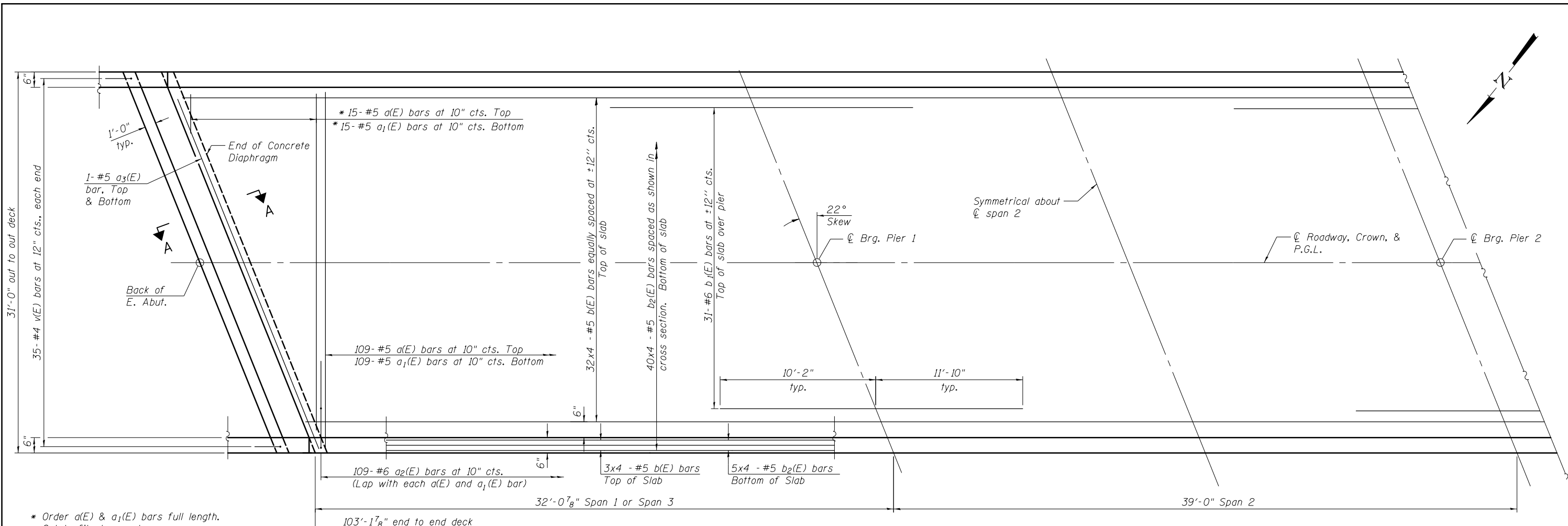
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PLOT DATE = 3/31/2014	CHECKED - 6/19/2012	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 099-0181**

SHEET NO. S5 OF S20 SHEETS

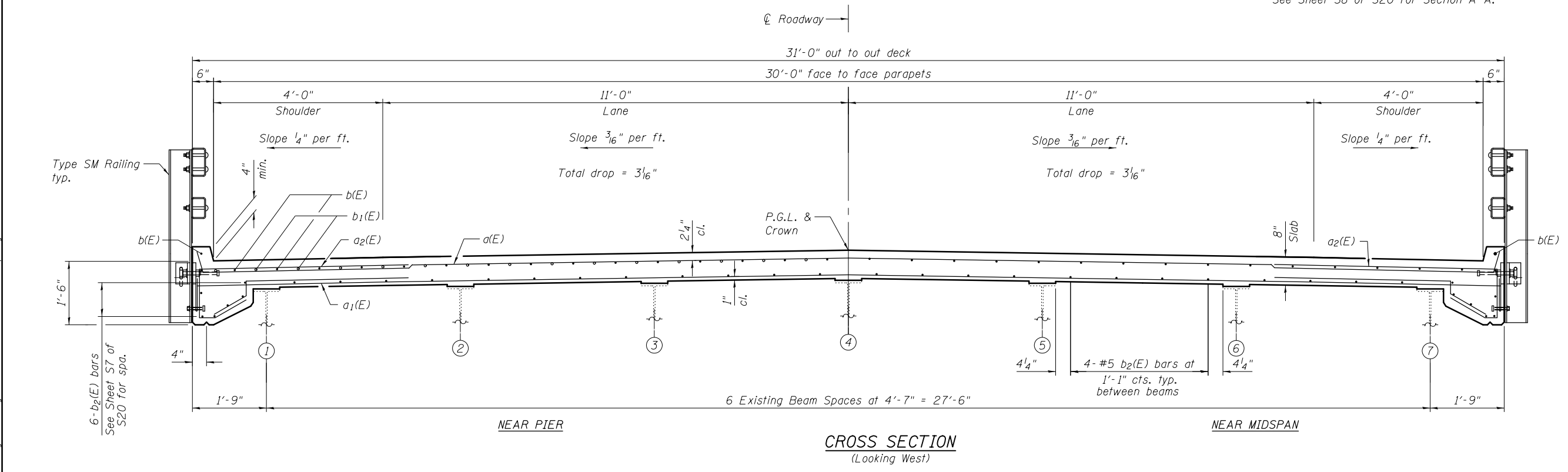
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55	99-2HB-3I-3	WILL	87	43
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				



Notes:  
 See Sheet S7 of S20 for superstructure details and Bill of Material.  
 Bars indicated thus 20x3 - #5 etc. indicates 20 lines of bars with 3 lengths per line.  
 See Sheet S8 of S20 for Section A-A.

**HALF PLAN**

**MINIMUM BAR LAP**  
 #5 Bar = 2'-7" Deck



**CROSS SECTION**  
 (Looking West)

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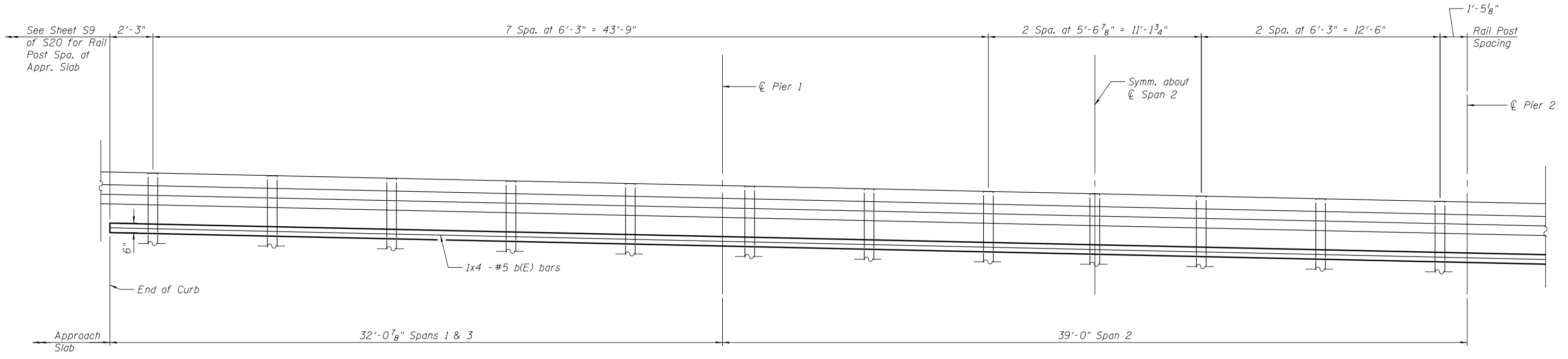
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DECK PLAN & CROSS SECTION**  
**STRUCTURE NO. 099-0181**

SHEET NO. S6 OF S20 SHEETS

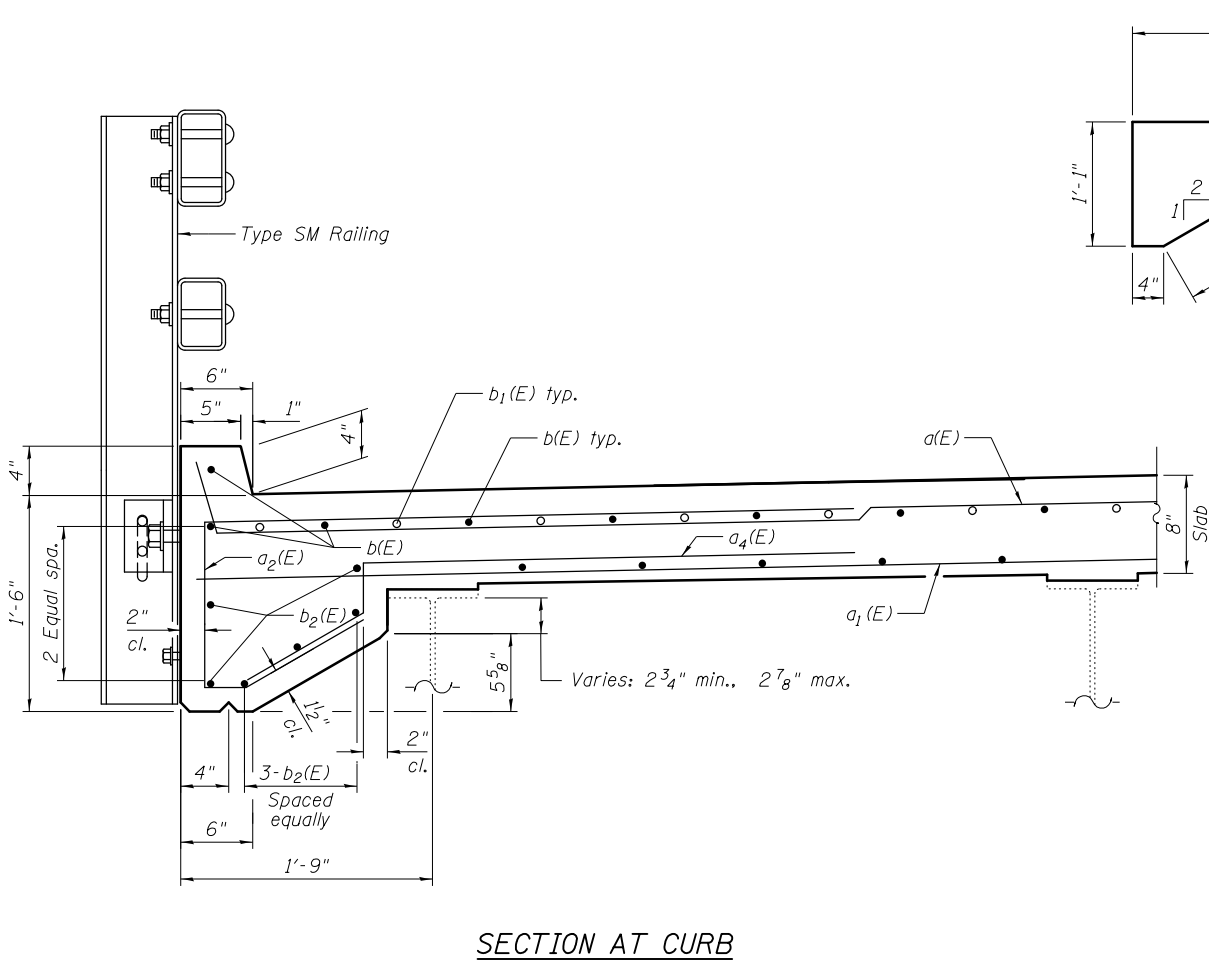
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CONTRACT NO. 60X60				

ILLINOIS FED. AID PROJECT

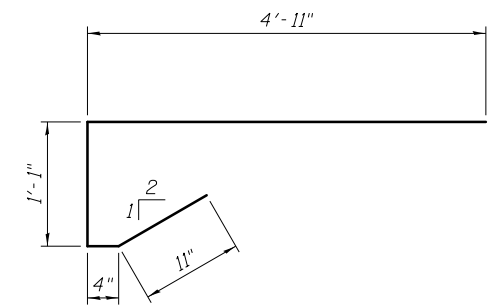


**INSIDE ELEVATION OF RAIL**  
(Looking South)

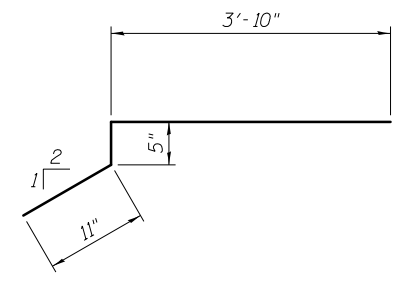
**MINIMUM BAR LAP**  
#5 Bar = 2'-7" Deck



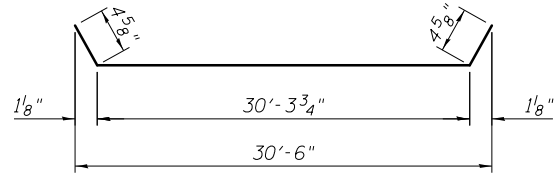
**SECTION AT CURB**



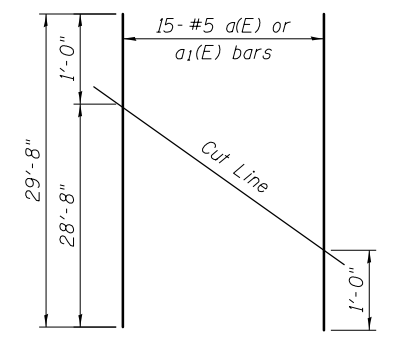
**BAR a<sub>2</sub>(E)**



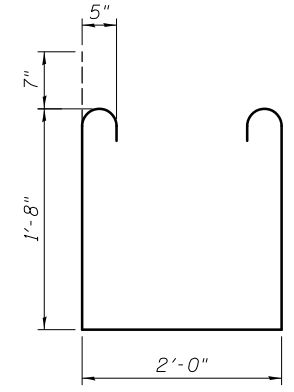
**BAR a<sub>4</sub>(E)**



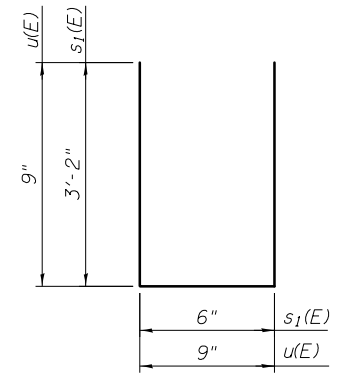
**BAR a(E)**



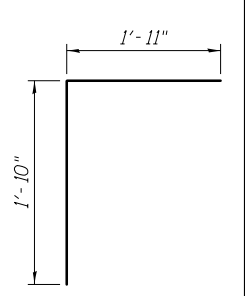
**FIELD CUTTING DIAGRAM**  
**BAR a(E) & a<sub>1</sub>(E)**



**BAR s(E)**



**BARS s<sub>1</sub>(E) & u(E)**



**BAR v(E)**

**SUPERSTRUCTURE**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	124	#5	31'-1"	U
a <sub>1</sub> (E)	124	#5	30'-6"	—
a <sub>2</sub> (E)	248	#6	7'-3"	U
a <sub>3</sub> (E)	4	#5	34'-1"	—
a <sub>4</sub> (E)	248	#6	5'-2"	U
b(E)	128	#5	27'-7"	—
b <sub>1</sub> (E)	62	#6	22'-0"	—
b <sub>2</sub> (E)	168	#5	27'-7"	—
m(E)	12	#6	33'-1"	—
m <sub>1</sub> (E)	36	#6	4'-7"	—
m <sub>2</sub> (E)	12	#6	1'-6"	—
m <sub>3</sub> (E)	10	#6	7'-11"	—
m <sub>4</sub> (E)	4	#6	5'-7"	—
s(E)	72	#5	6'-6"	U
s <sub>1</sub> (E)	84	#5	6'-10"	U
u(E)	70	#5	2'-0"	U
v(E)	70	#5	3'-9"	U
Reinforcement Bars, Epoxy Coated		Pound	25,840	
Concrete Superstructure		Cu. Yds.	136.0	

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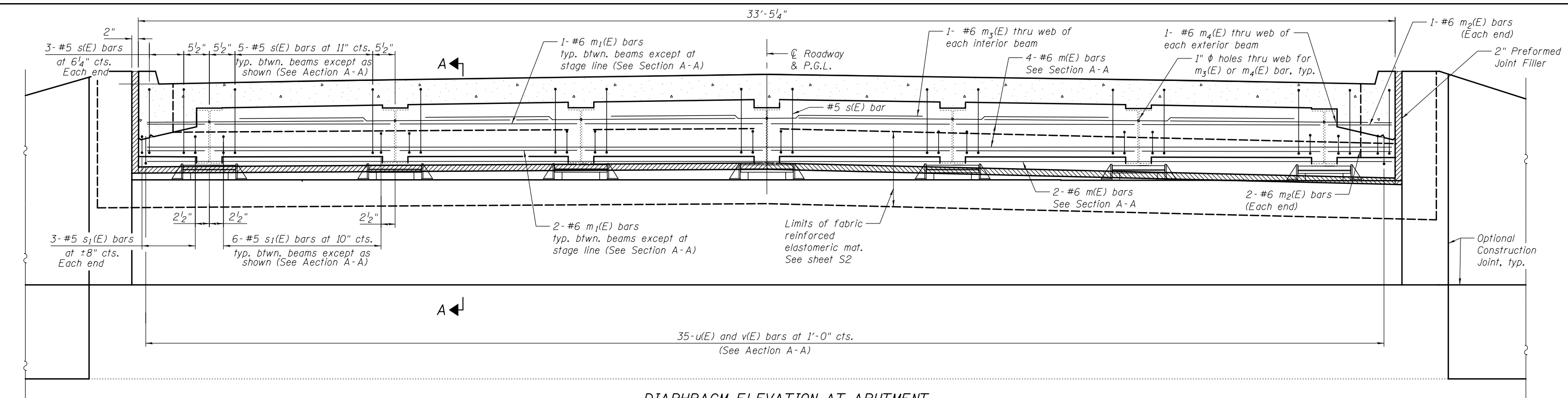


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PLOT DATE = 3/31/2014	CHECKED - 8/23/2012	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS - I**  
**STRUCTURE NO. 099-0181**  
SHEET NO. S7 OF S20 SHEETS

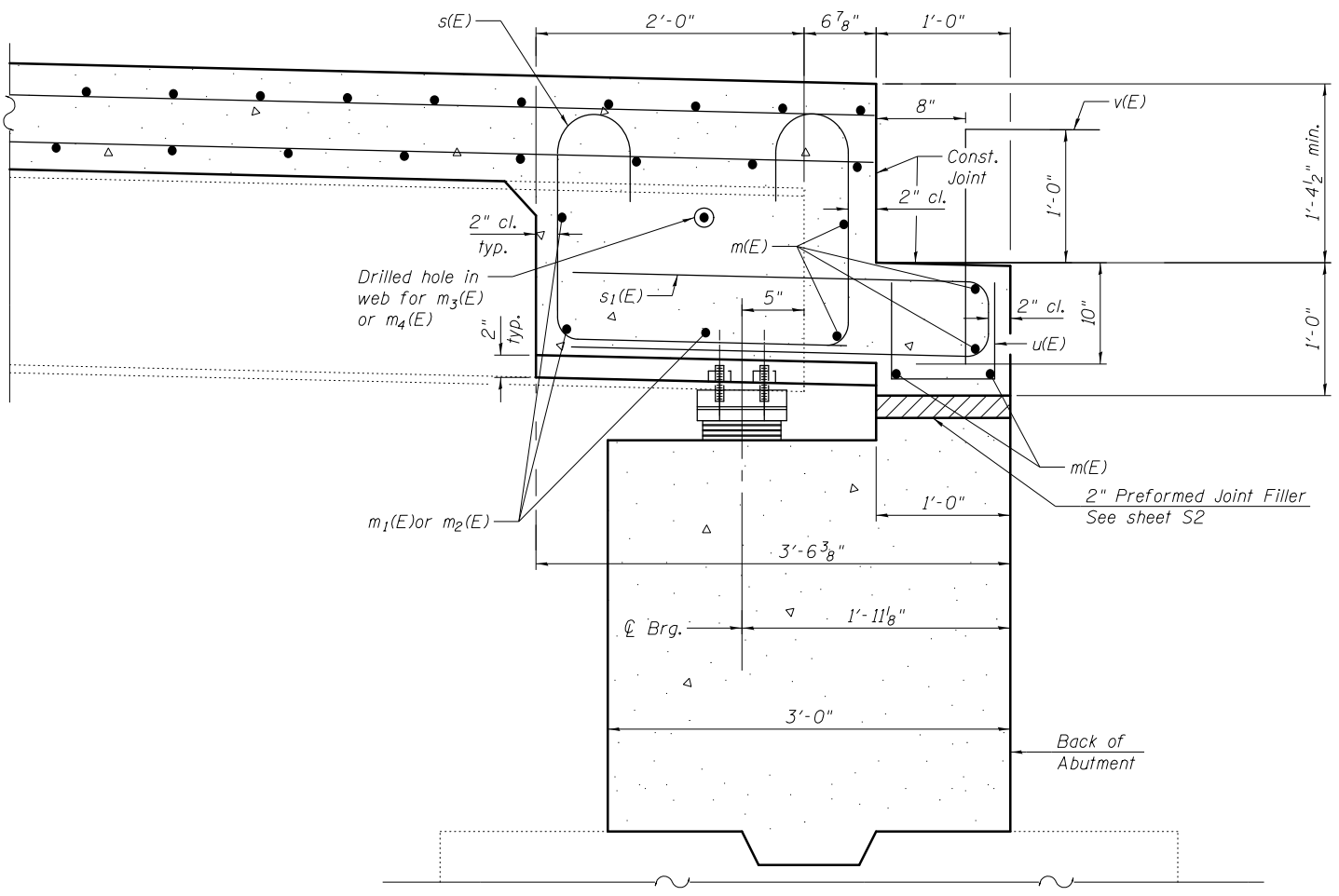
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	45
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				



**DIAPHRAGM ELEVATION AT ABUTMENT**  
 (Looking west at west abutment)  
 (Diaphragm at east abutment is similar)

**MIN. BAR LAP**  
 #6 bar = 3'-4"

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet S7 of S20.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet S7 of S20.  
 For details of bars s(E), s<sub>1</sub>(E), u(E), and v(E) see sheet S7 of S20.  
 The s(E) bars shall be placed parallel to the beams.  
 Spacing for these bars shall be at right angles to the beams.



**SECTION A-A**  
 (Horiz. dim. @ Rt. L's)

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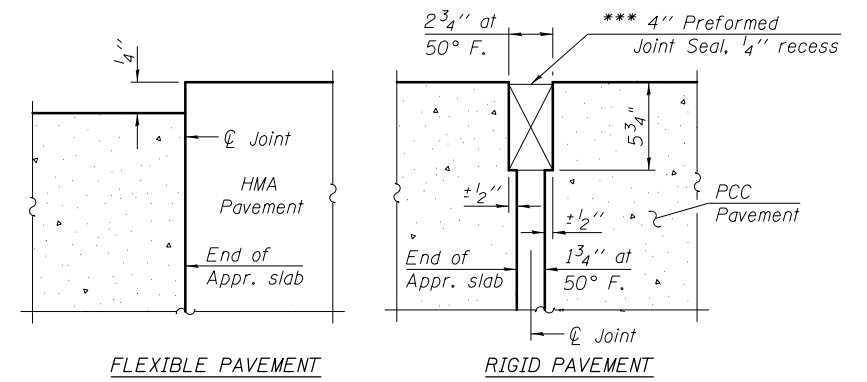
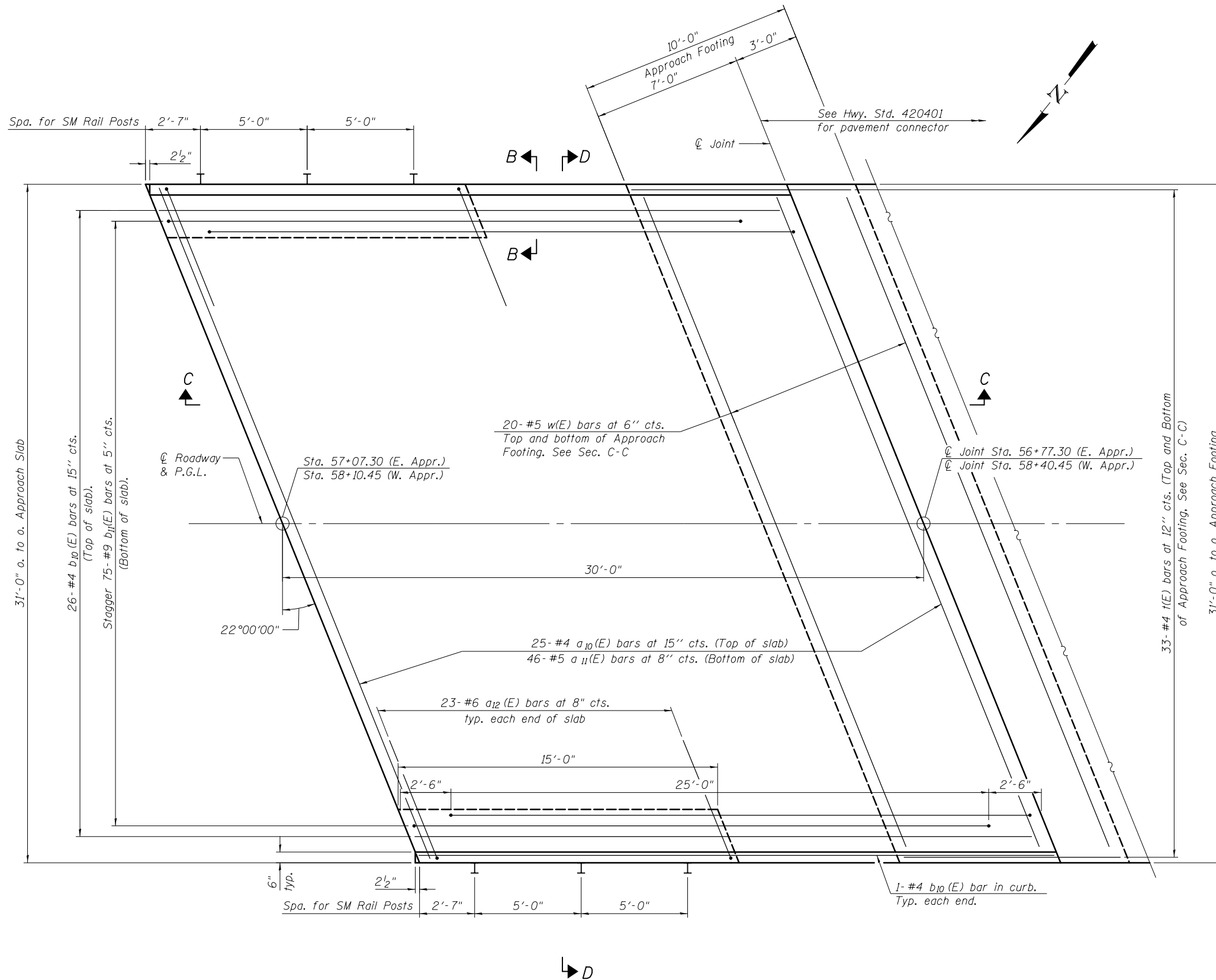
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS - II**  
**STRUCTURE NO. 099-0181**

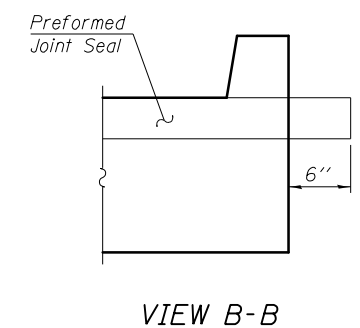
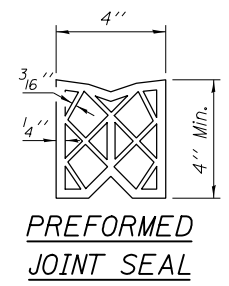
SHEET NO. S8 OF S20 SHEETS

F.A.I. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	46
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

Notes:  
See sheet S11 of S20 for Sections C-C & D-D.  
a<sub>10</sub> (E) thru a<sub>13</sub>(E) bar spacings measured along  $\mathcal{C}$  Rdwy.



DETAIL A  
\*\*\* Cost included with Concrete Superstructure.



PLAN  
(West Approach Slab shown, East Approach Slab opposite hand)

\* Tilt #9 b<sub>11</sub>(E) bars as required to maintain clearance.

FILENAME = F:\3-1319-Blodgett\Drawings\CADD\Sheets\099\01-60636-099-Appr-Slab.dgn



USER NAME = tborges	DESIGNED - KO	REVISED
	CHECKED - BCM	REVISED
PLOT SCALE = N/A	DRAWN - KO	REVISED
PLOT DATE = 3/31/2014	CHECKED - 6/18/2012	REVISED

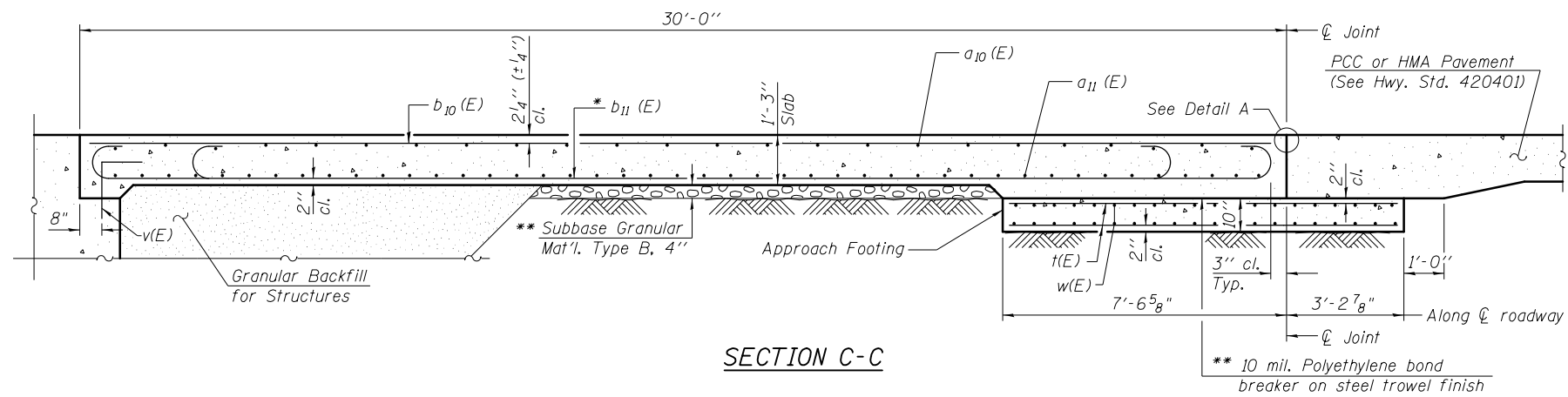
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS - I  
STRUCTURE NO. 099-0181**

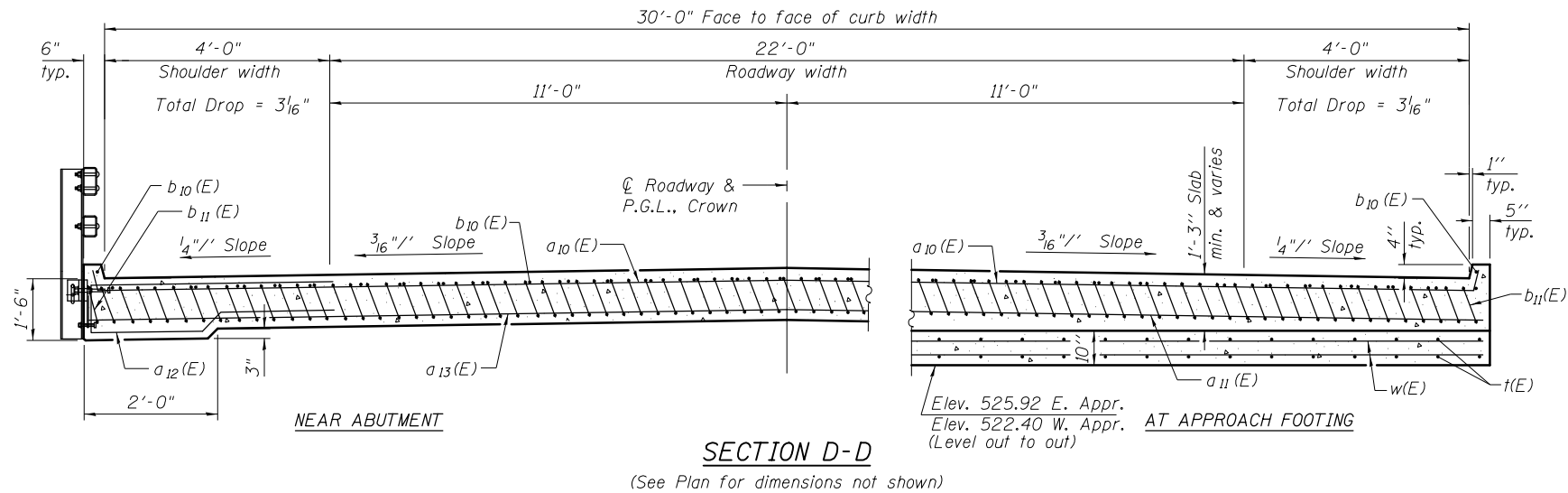
SHEET NO. S9 OF S20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	47
				CONTRACT NO. 60X60

ILLINOIS FED. AID PROJECT



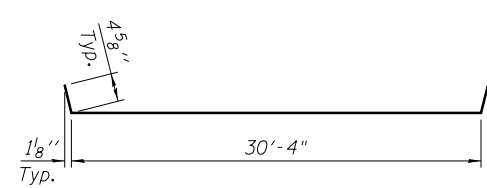
Notes:  
 See sheet S9 of S20 for Detail A.  
 Approach slab concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet S7 of S20.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet S2 of S20.



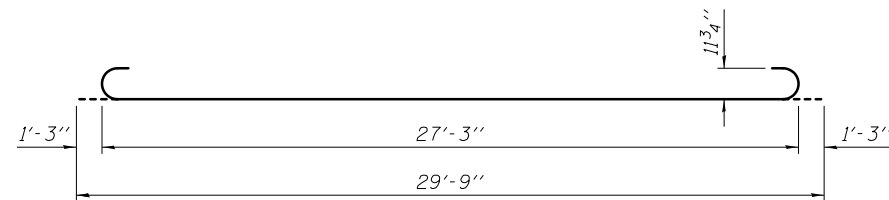
\* Tilt #9 b11(E) bars as required to maintain clearance.  
 \*\* Cost included with Concrete Superstructure.

**TWO APPROACHES  
 BILL OF MATERIAL**

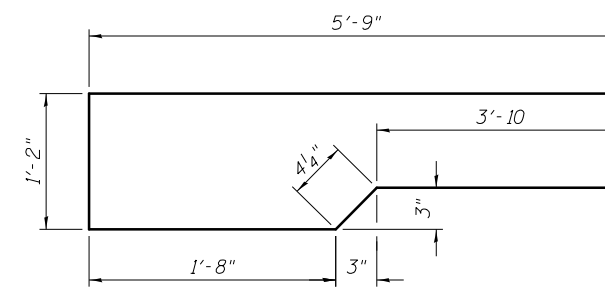
Bar	No.	Size	Length	Shape
a <sub>10</sub> (E)	50	#4	34'-4"	—
a <sub>11</sub> (E)	92	#5	34'-0"	—
a <sub>12</sub> (E)	92	#6	12'-9"	—
b <sub>10</sub> (E)	56	#4	29'-8"	—
b <sub>11</sub> (E)	150	#9	29'-9"	—
t(E)	132	#4	10'-5"	—
w(E)	80	#5	34'-0"	—
Concrete Superstructure			Cu. Yd.	92.3
Concrete Structures			Cu. Yd.	21.2
Reinforcement Bars, Epoxy Coated			Pound	25,880



**BAR a<sub>10</sub>(E)**



**BAR b<sub>11</sub>(E)**



**BAR b<sub>2</sub>(E)**

FILENAME = F:\3-1319\_Budget\Drawings\CADD\Sheets\09901B1-60636-010-Appr-Slab.dgn



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 CHECKED - BCM  
 PLOT SCALE = N/A  
 DRAWN - KO  
 CHECKED - 6/19/2012  
 PLOT DATE = 3/31/2014

DESIGNED - KO  
 CHECKED - BCM  
 DRAWN - KO  
 CHECKED - 6/19/2012  
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 REVISED

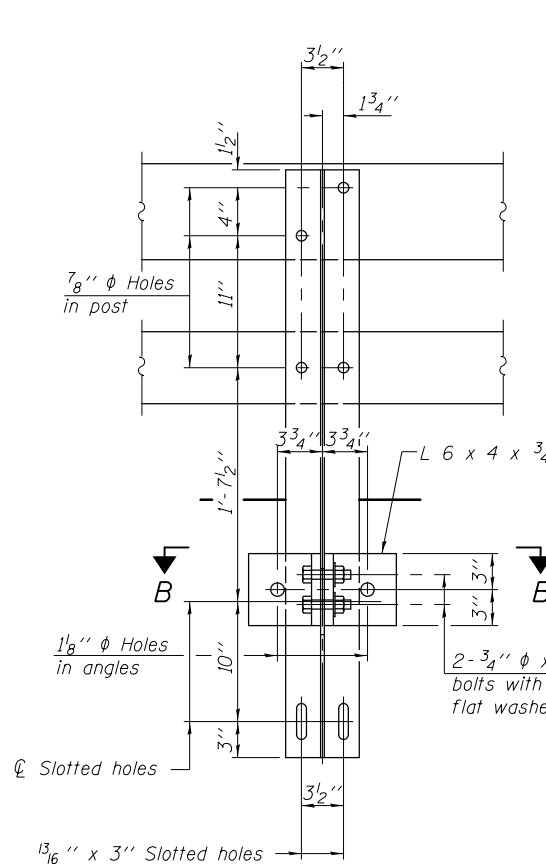
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS - II  
 STRUCTURE NO. 099-0181**

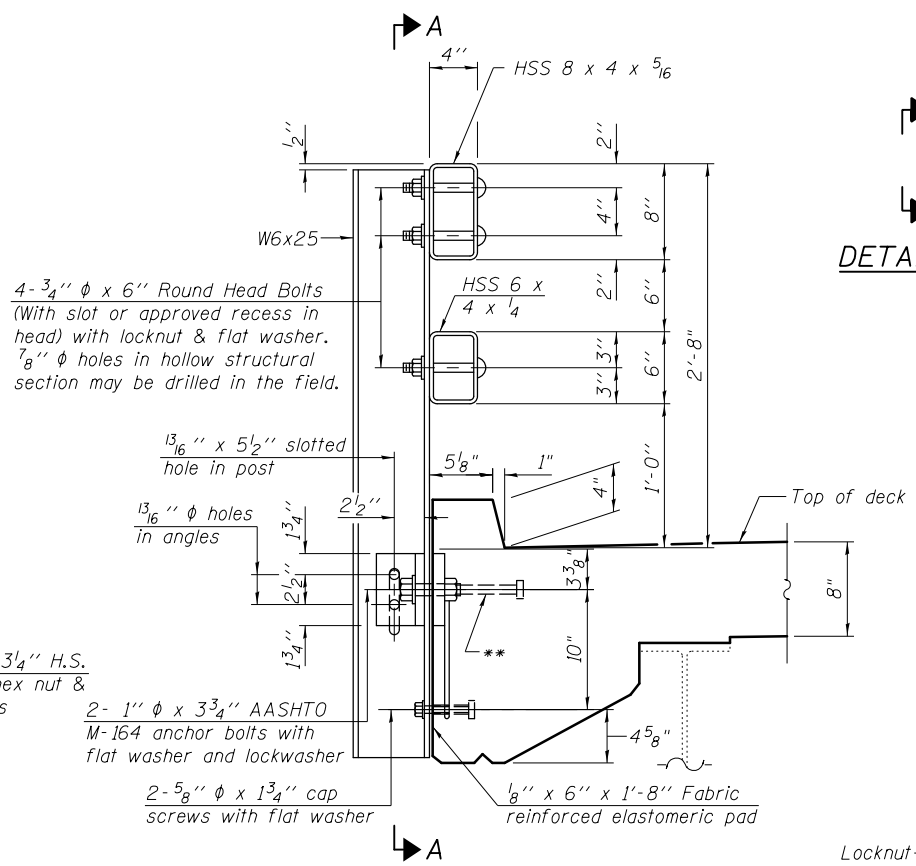
SHEET NO. S10 OF S20 SHEETS

F.A.I. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	48
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

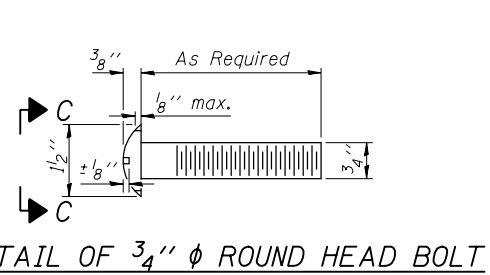




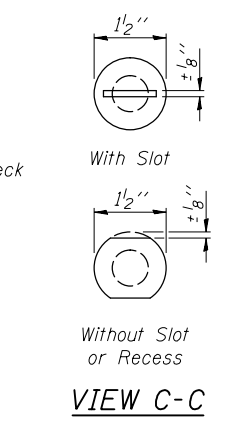
SECTION A-A



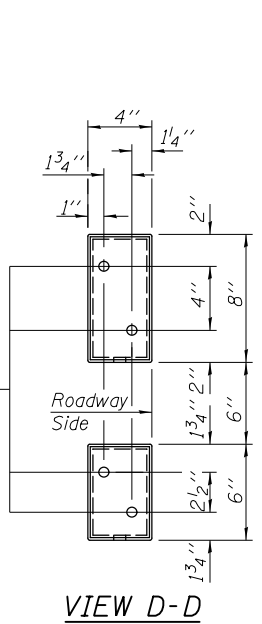
SECTION AT RAIL POST



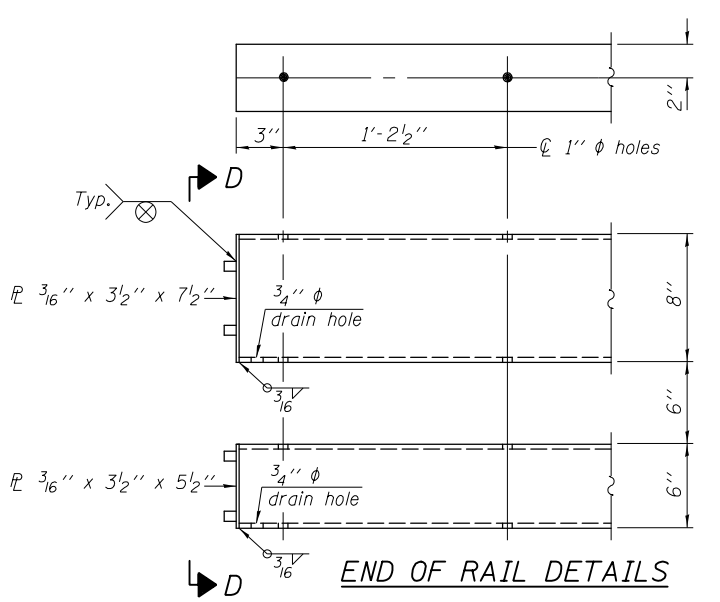
DETAIL OF 3/4"  $\phi$  ROUND HEAD BOLT



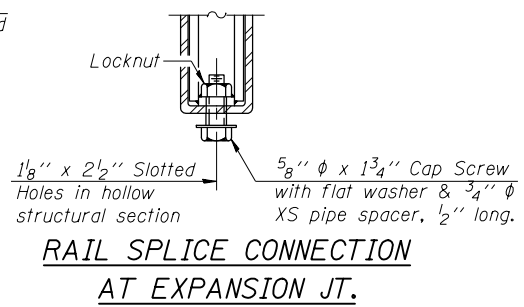
VIEW C-C



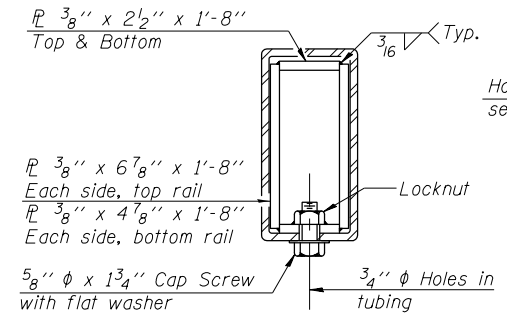
VIEW D-D



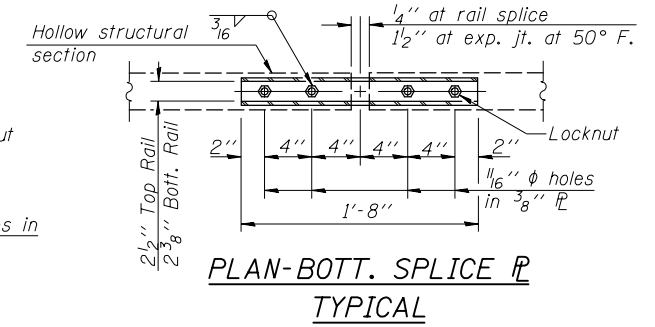
END OF RAIL DETAILS



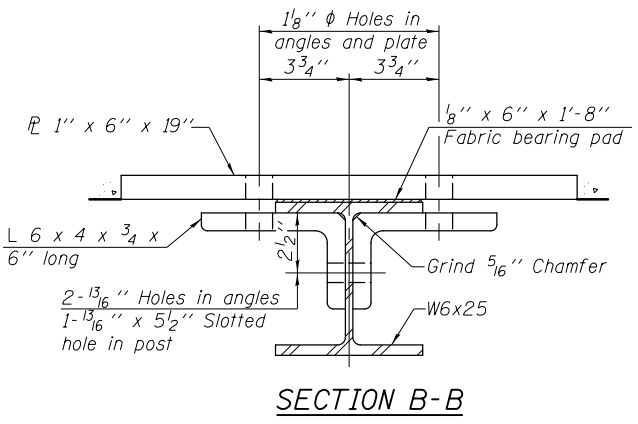
RAIL SPLICE CONNECTION AT EXPANSION JT.



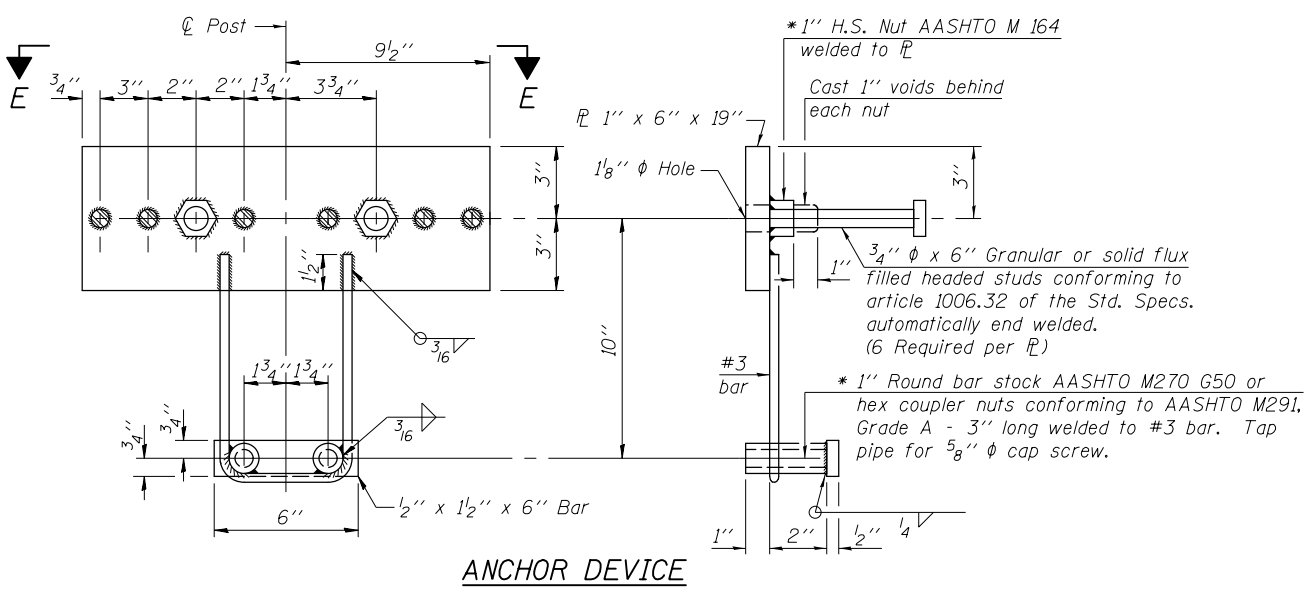
SECTION AT RAIL SPLICE



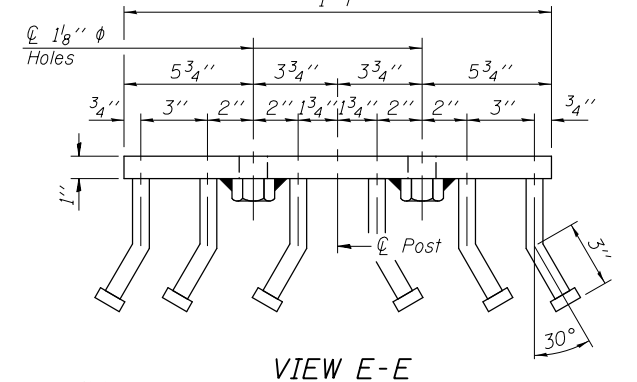
PLAN-BOTT. SPLICE TYPICAL



SECTION B-B



ANCHOR DEVICE



VIEW E-E

Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
 All steel railing elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 \*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

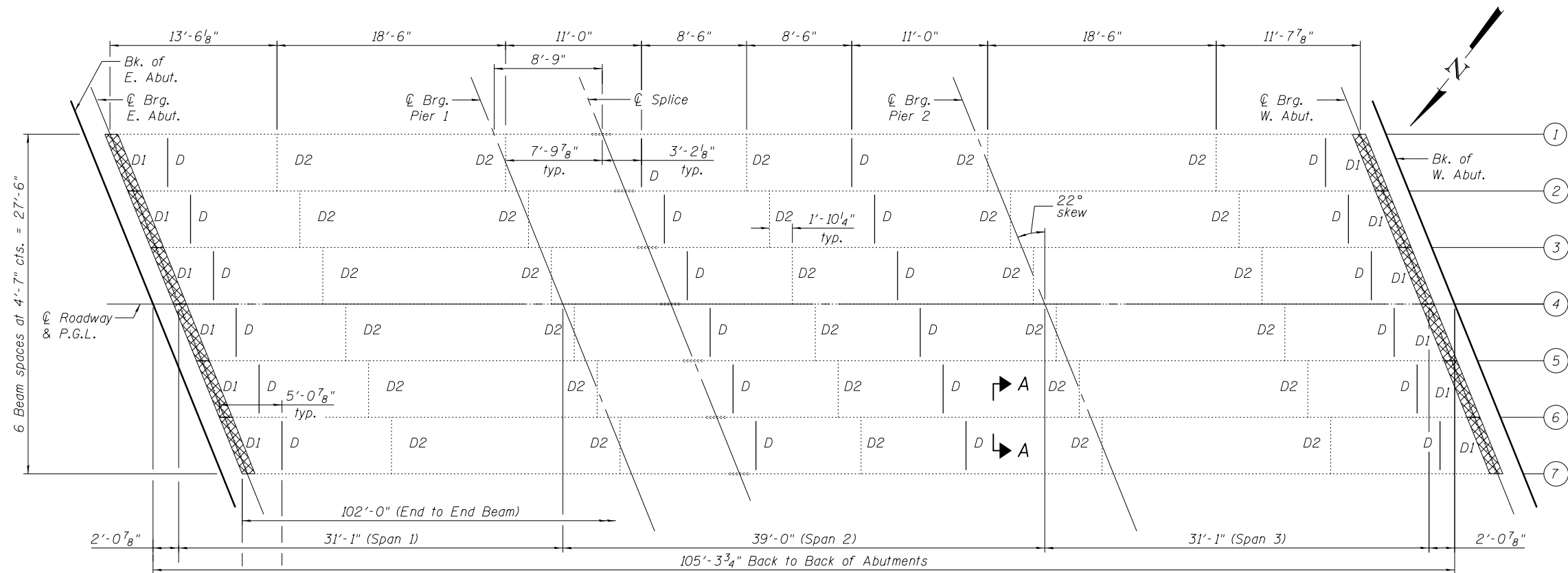
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	272

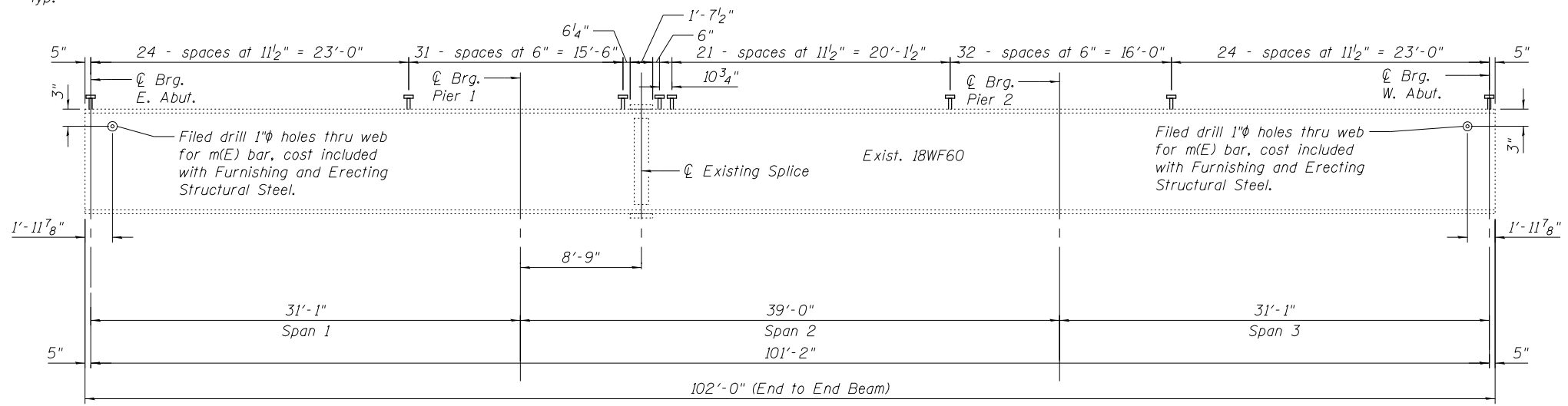
(6'-3" Maximum Post Spacing) (5" minimum to 7 1/2" maximum CWS thickness)

USER NAME = tborges	DESIGNED - KO	REVISED
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PLOT DATE = 3/31/2014	DRAWN - KO	REVISED
	CHECKED - 3/27/2013	REVISED

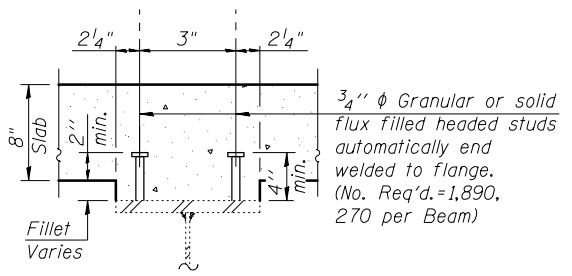
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	49
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				



**FRAMING PLAN**

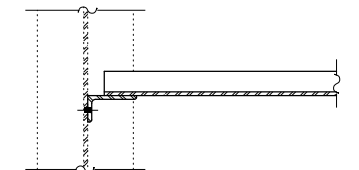


**ELEVATION OF EXISTING BEAM**

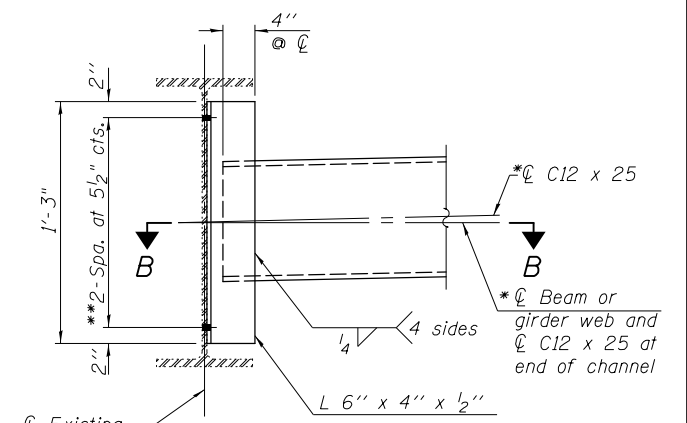


**SECTION A-A**

Notes:  
See Sheet S13 of S20 for existing diaphragm details.  
Two hardened washers required for each set of oversized holes for the diaphragm D.  
The alternate channel C12X30, if utilized, shall be provided at no additional cost to the Department.



**SECTION B-B**



**DIAPHRAGM D**

(24 Required)  
\* C12 x 30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.  
\*\* 3/4" φ HS bolts, 15/16" φ holes.  
Holes in existing web to be field drilled. Use L6 x 4 x 1/2 as a template. Cost included with Furnishing and Erecting Structural Steel.

**BILL OF MATERIAL**

Item	Unit	Total
Structural Steel Removal	Lump Sum	1
Furnishing And Erecting Structural Steel	Pound	4,500

**LEGEND**  
[Cross-hatched box] - Structural Steel Removal

FILENAME = F:\3-1319\_Bldg\st\Drawings\CADD\Sheets\0990181-60636-012-Framing.dgn



USER NAME = tborges	DESIGNED - KO	REVISED
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PLOT DATE = 3/31/2014	DRAWN - KO	REVISED
	CHECKED - 8/23/2012	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN  
STRUCTURE NO. 099-0181**  
SHEET NO. S12 OF S20 SHEETS

F.A.I. RTE. 55	SECTION 99-2HB-3I-3	COUNTY WILL	TOTAL SHEETS 87	SHEET NO. 50
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

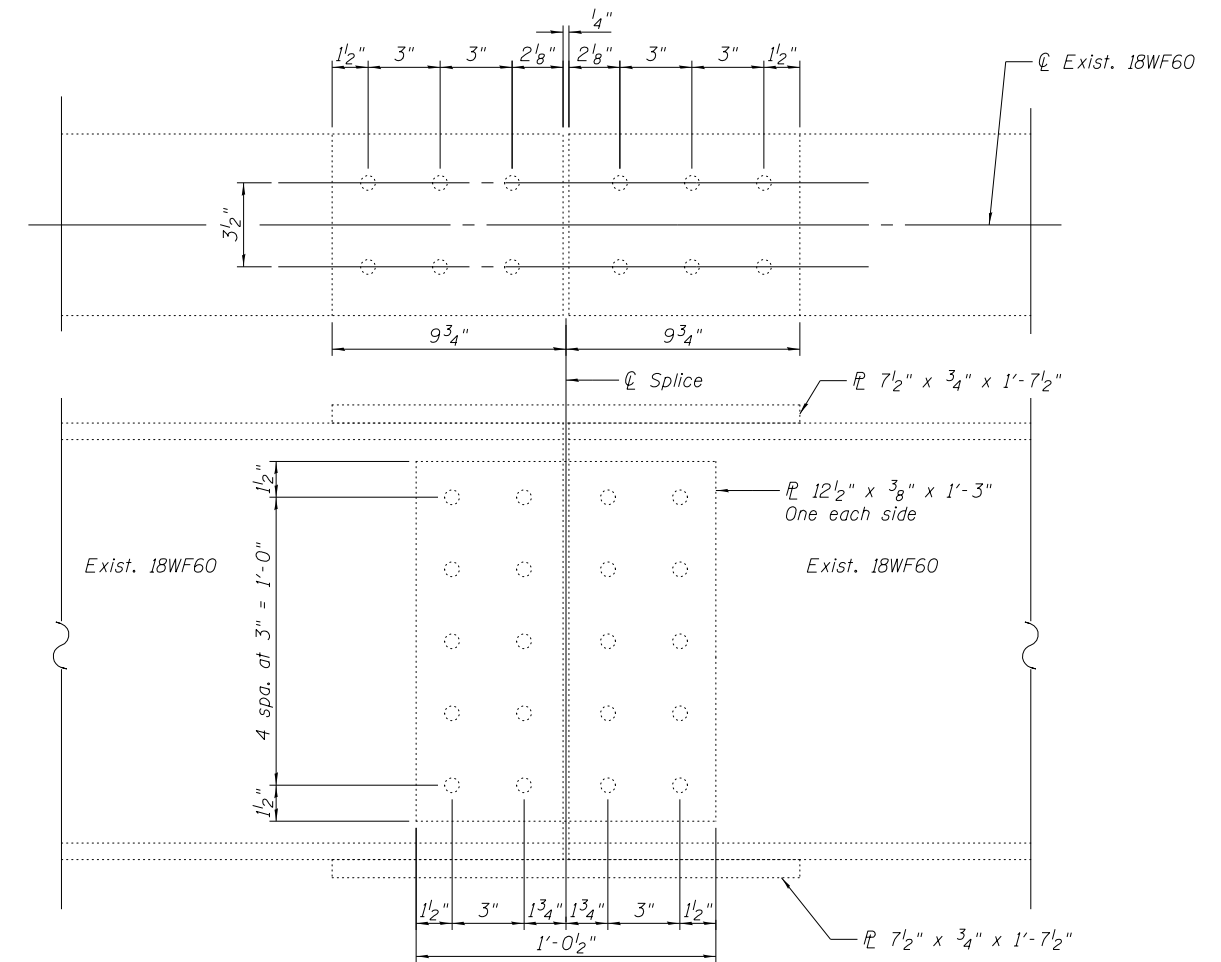
INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
$I_s$	(in <sup>4</sup> )	984	984
$I_c(n)$	(in <sup>4</sup> )	3638	3638
$I_c(3n)$	(in <sup>4</sup> )	2636	2636
$I_c(cr)$	(in <sup>4</sup> )	-	-
$S_s$	(in <sup>3</sup> )	108	108
$S_c(n)$	(in <sup>3</sup> )	190	190
$S_c(3n)$	(in <sup>3</sup> )	168	168
$S_c(cr)$	(in <sup>3</sup> )	-	-
Z	(in <sup>3</sup> )	-	-
$\phi$	(k/')	0.532	0.532
$M\phi$	('k)	35.2	34.8
$s\phi$	(k/')	0.144	0.144
$M_s\phi$	('k)	9.5	9.4
$M_L$	('k)	111.8	112.7
$M_I$	('k)	33.6	33.8
$\bar{M}_3 [M_L + I]$	('k)	242.3	244.2
$M_a$	('k)	373.1	374.9
$M_u$	('k)	775.8	512.5
$f_s \phi$ non-comp	(ksi)	3.9	3.9
$f_s \phi$ (comp)	(ksi)	0.7	0.7
$f_s \bar{M}_3 [M_L + M_I]$	(ksi)	15.3	15.4
$f_s$ (Overload)	(ksi)	19.9	19.9
$f_s$ (Total)	(ksi)	-	-
VR	(k)	11.7	11.4

\*\* Compact section

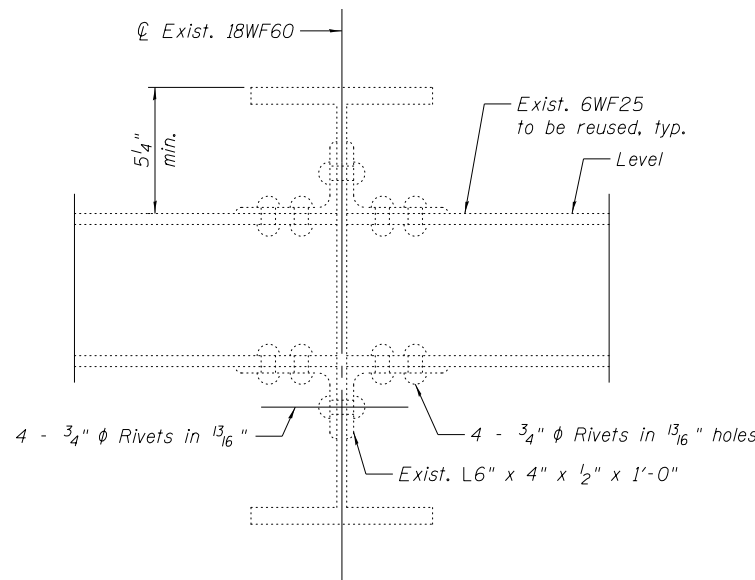
INTERIOR GIRDER REACTION TABLE		
	Abutments	Piers
$R\phi$	(k)	26.2 ***
$R_L$	(k)	29.6
$R_I$	(k)	8.9
$R_{Total}$	(k)	64.6

\*\*\* Dead load reaction includes concrete diaphragm and approach slab.

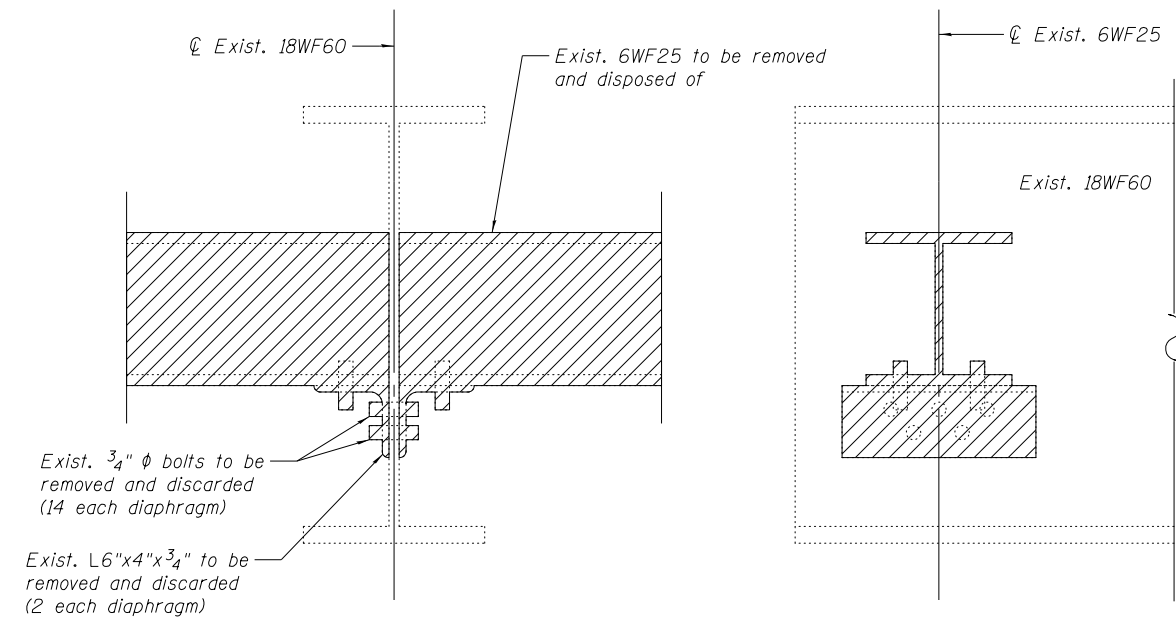
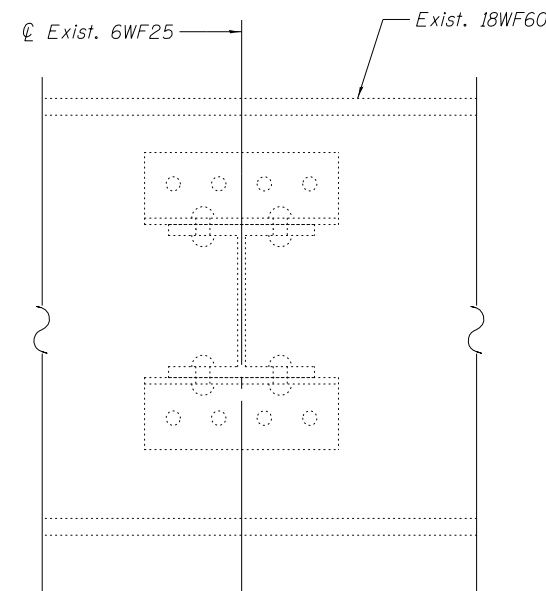
- $I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total and Overload) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total and Overload) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total and Overload) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement.
- Z: Plastic Section Modulus of the steel section in non-composite areas (in<sup>3</sup>).
- $\phi$ : Un-factored non-composite dead load (kips/ft.).
- $M\phi$ : Un-factored moment due to non-composite dead load (kip-ft.).
- $s\phi$ : Un-factored long-term composite (superimposed) dead load (kips/ft.).
- $M_s\phi$ : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- $M_L$ : Un-factored live load moment (kip-ft.).
- $M_I$ : Un-factored moment due to impact (kip-ft.).
- $M_a$ : Factored design moment (kip-ft.).  
 $1.3 [M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)]$
- $M_u$ : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
- $f_s$  (Overload): Sum of stresses as computed from the moments below (ksi).  
 $M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)$
- $f_s$  (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.3 [M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)]$
- VR: Maximum  $\perp$  + impact shear range within the composite portion of the span for stud shear connector design (kips).



**SPlice DETAIL**  
(For information only)



**DIAPHRAGM "D2" DETAIL**  
(Total 30 Diaphragms to remain in place)

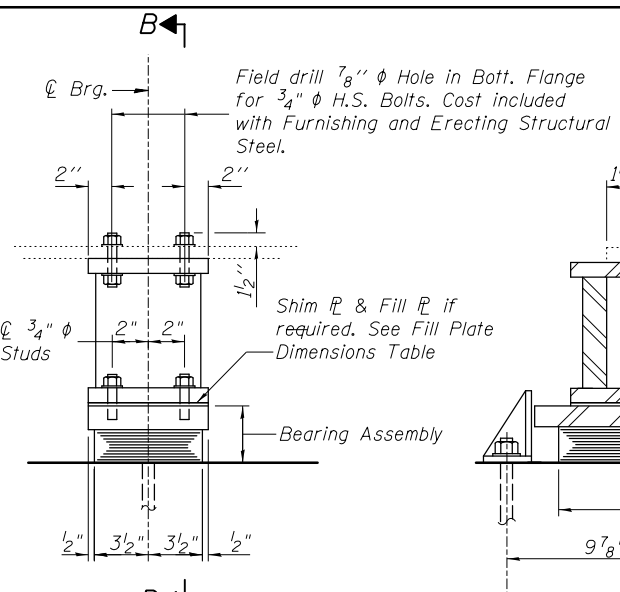


**END DIAPHRAGM "D1" REMOVAL DETAIL**  
(Total 12 Diaphragms to be removed)

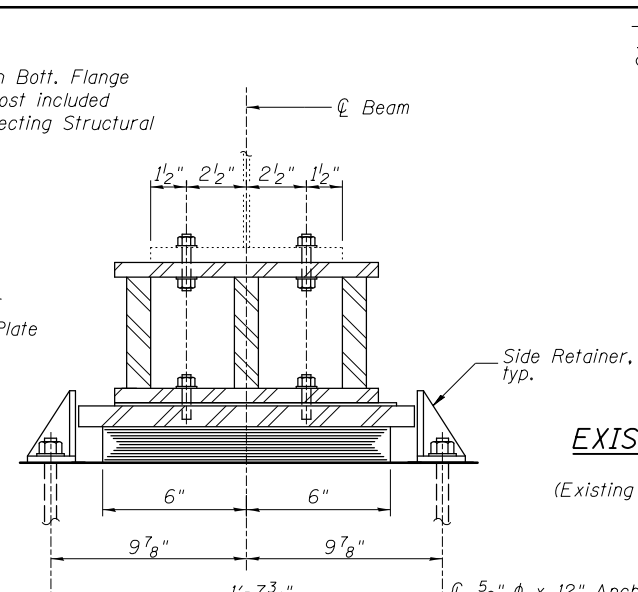
**LEGEND**

- Structural Steel Removal

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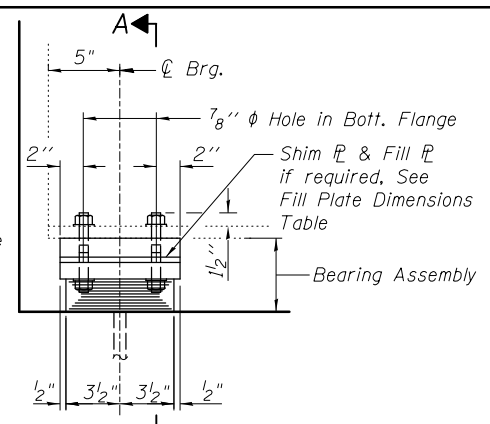


**ELEVATION AT PIER**

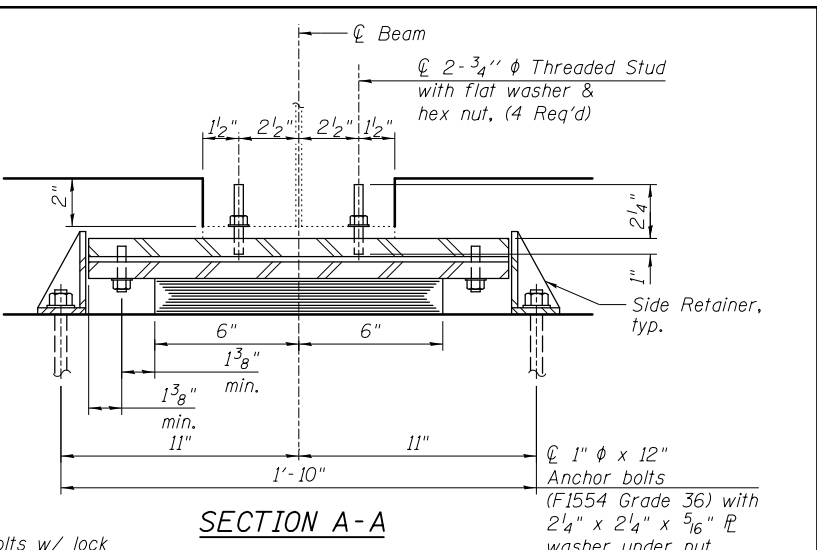


**SECTION B-B**

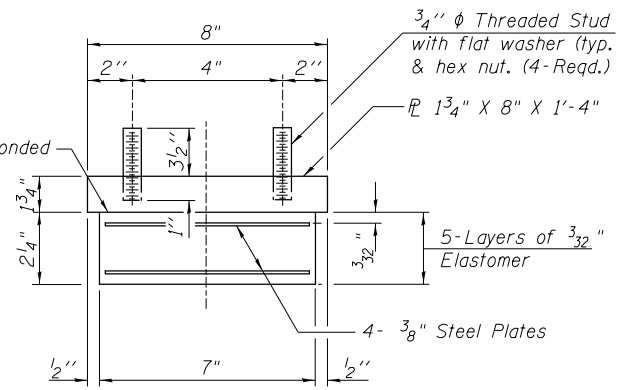
**EXISTING BEARING REMOVAL DETAIL**  
(21 required)  
(Existing bearing at Pier shown, Abutment bearings similar)  
Cost included with Jack and Remove Existing Bearings.



**ELEVATION AT ABUT.**



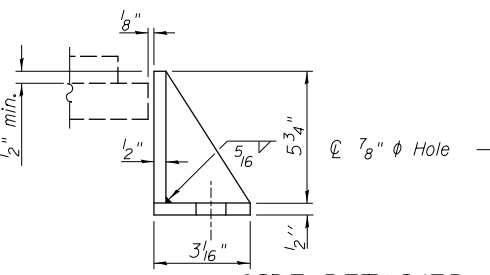
**SECTION A-A**



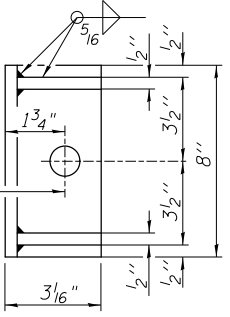
**BEARING ASSEMBLY**

Note:  
Shim plates shall not be placed under Bearing Assembly.

**TYPE I ELASTOMERIC EXP. BRG. AT PIER 1**

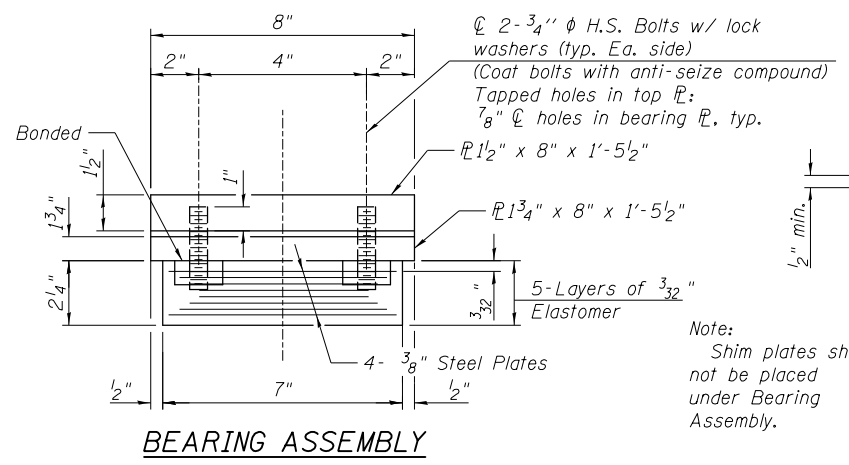


**SIDE RETAINER**



**FILL PLATE DIMENSIONS AT PIER 1**

Beam	Pier 1
1	-
2	3/8" x 8" x 11"
3	1/2" x 8" x 11"
4	1/4" x 8" x 11"
5	-
6	-
7	-



**BEARING ASSEMBLY**

See Section A-A for 3/4" φ threaded studs in Top Plate

**TYPE I ELASTOMERIC EXP. BRG. AT ABUTMENTS**

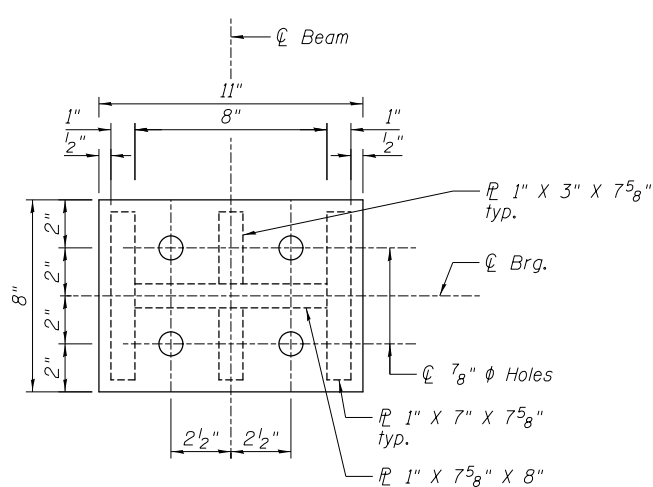
**FILL PLATE DIMENSIONS AT ABUTMENTS**

Beam	E. Abut.	W. Abut.
1	1/2" x 8" x 1'-5 1/2"	1/2" x 8" x 1'-5 1/2"
2	7/8" x 8" x 1'-5 1/2"	7/8" x 8" x 1'-5 1/2"
3	1" x 8" x 1'-5 1/2"	1 1/8" x 8" x 1'-5 1/2"
4	3/4" x 8" x 1'-5 1/2"	7/8" x 8" x 1'-5 1/2"
5	-	-
6	-	-
7	-	-

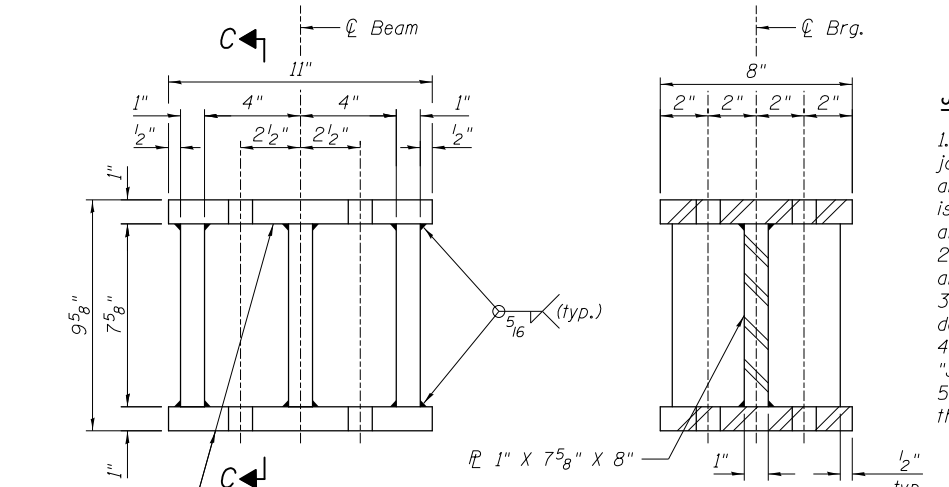
Notes:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.  
H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 36.  
Prior to ordering any material, the Contractor shall verify in the field all bearing heights and shim thickness dimensions.  
New steel extensions, connection bolts, Fill Plate, and Shim Plates are included in "Furnishing and Erecting Structural Steel".  
Existing diaphragm removal and reinstallation at Pier 1 may be required to facilitate drilling holes. Cost is included with "Jack and Remove Existing Bearings".

**BILL OF MATERIAL**

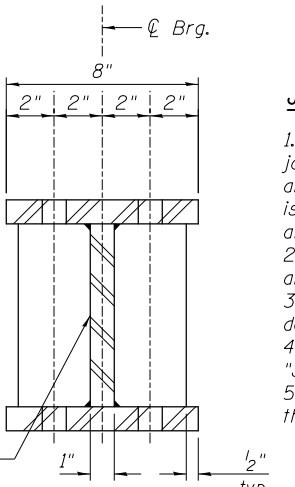
Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	21
Anchor Bolts, 1"	Each	28
Anchor Bolts, 5/8"	Each	14
Furnishing and Erecting Structural Steel	Pound	780
Jack and Remove Existing Bearing	Each	21



**PLAN STEEL EXTENSION**



**ELEVATION STEEL EXTENSION**



**SECTION C-C**

**Jack and Remove Existing Bearing Procedure**

- The Contractor shall submit for approval by the Engineer, plans for jacking existing beams and installing new bearings prior to commencing any related work. The dead load reaction per beam (weight of steel only) is 1.5 k at the abutments, and 4 k at Pier 1. Minimum jack capacity is 3 k at abutments and 8 k at Pier 1.
- Prior to ordering any material, the Contractor shall verify steel extension and Fill plate thicknesses required at each bearing.
- Jacking and removing existing bearings shall be done after the existing deck is removed and prior to placing the new deck.
- Jacking lifts shall be limited in accordance with the special provision "Jack and Remove Existing Bearings."
- The new bearings, plates, and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is poured.

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS STRUCTURE NO. 099-0181**

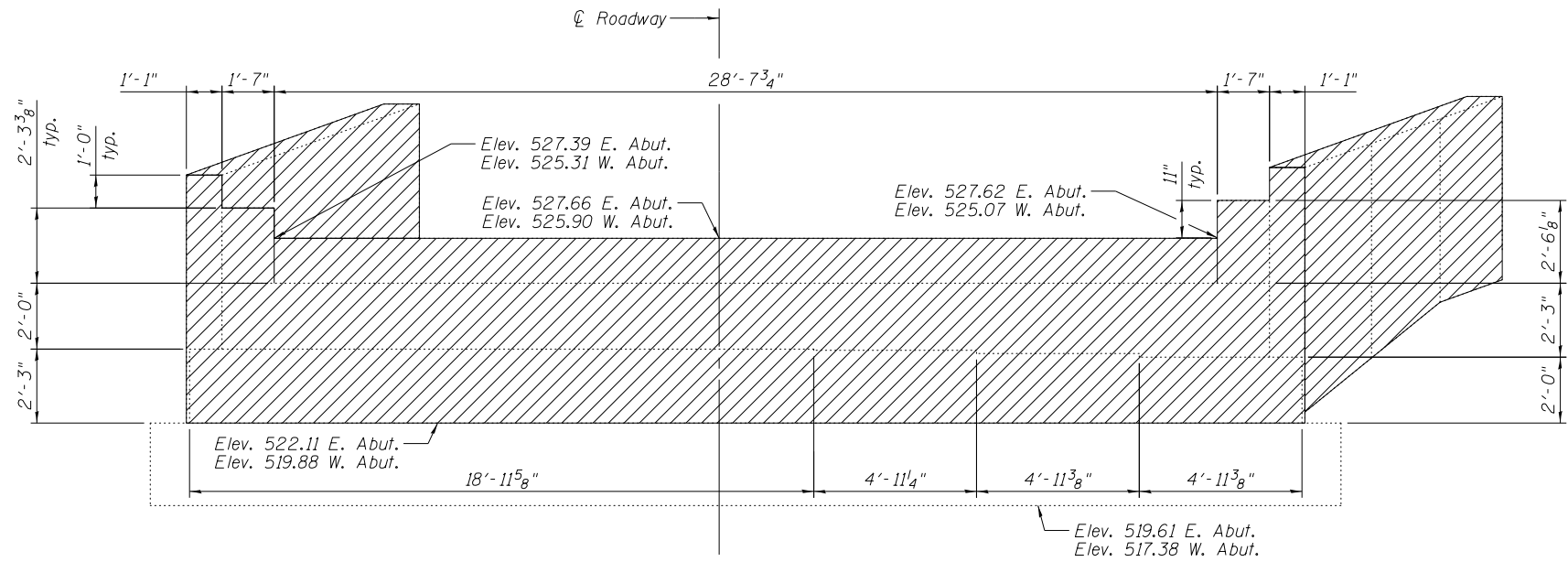
SHEET NO. S14 OF S20 SHEETS

USER NAME = tborges	DESIGNED - KO	REVISED
CHECKED - BCM	REVISIONS	
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PLOT DATE = 3/31/2014	CHECKED - 8/23/2012	REVISED

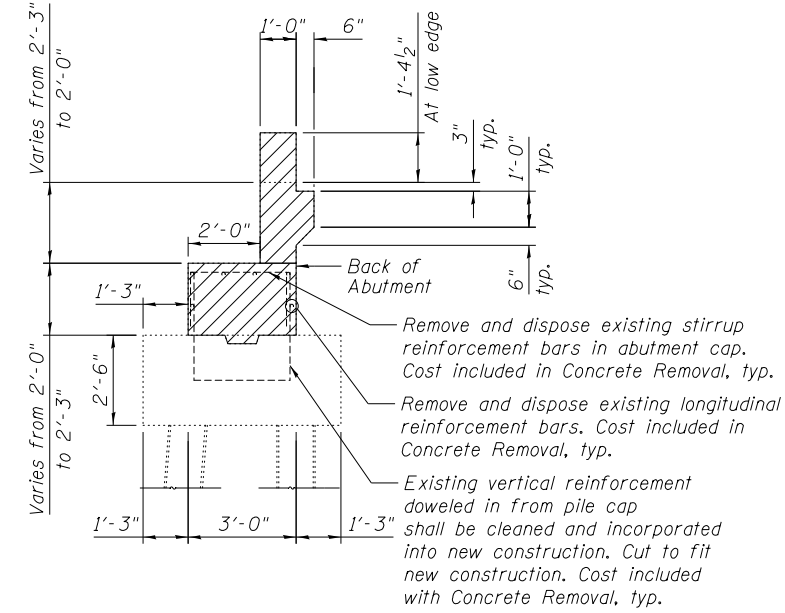
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	52
				CONTRACT NO. 60X60

ILLINOIS FED. AID PROJECT

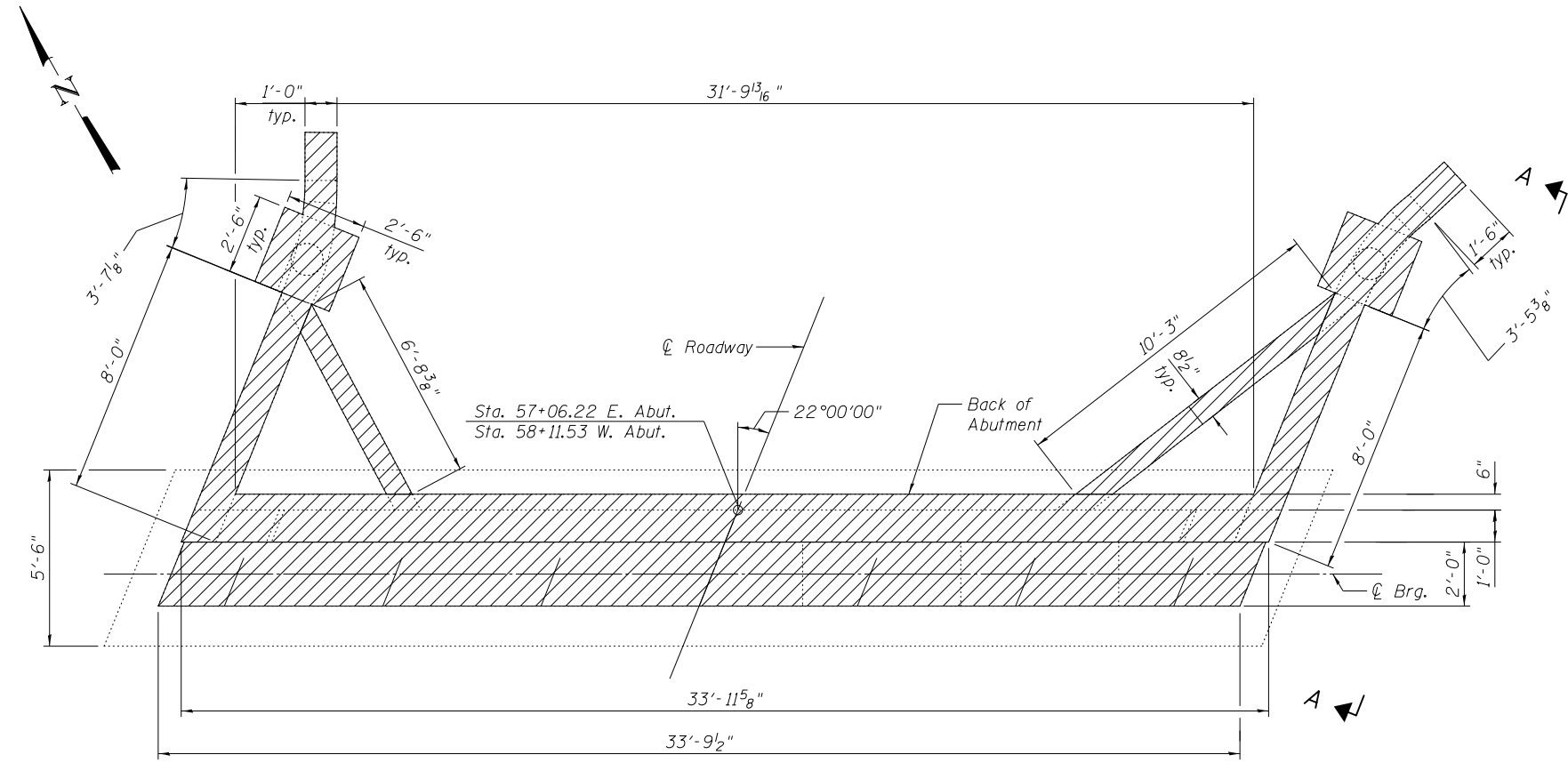
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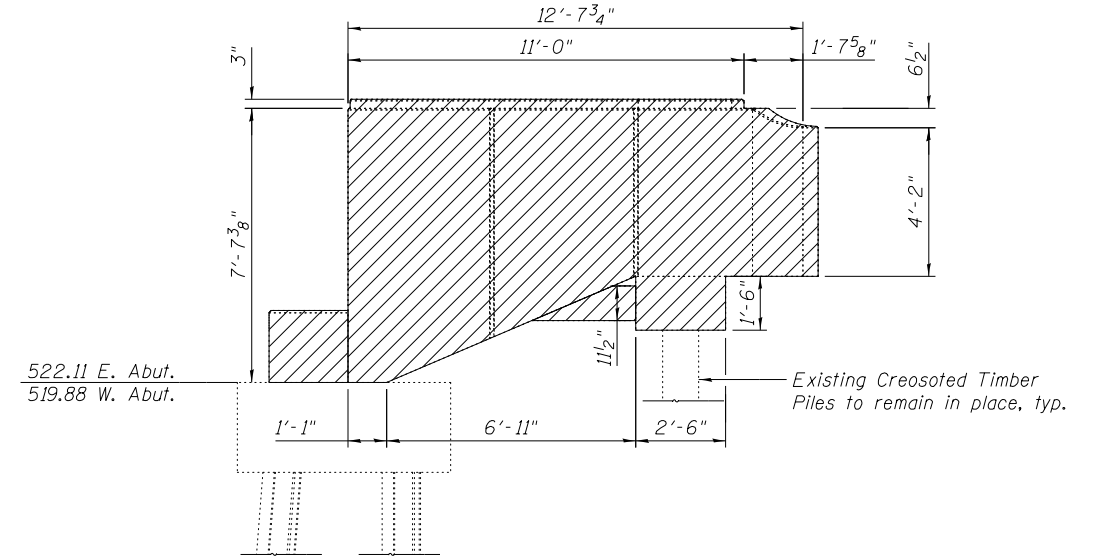
**ELEVATION**  
(East Abutment Shown, West Abutment Opposite Hand)



**SECTION THRU ABUTMENT**



**PLAN**  
(East Abutment Shown, West Abutment Opposite Hand)



**VIEW A-A**  
(South Face, East Abut. shown, North Face similar)

**LEGEND**

- Concrete Removal

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yds.	44.4

FILENAME: F:\3-1319\_Bldg\st1\Drawings\CADD\Sheets\099-0181-09-015-Abut.conc\_removal.dgn



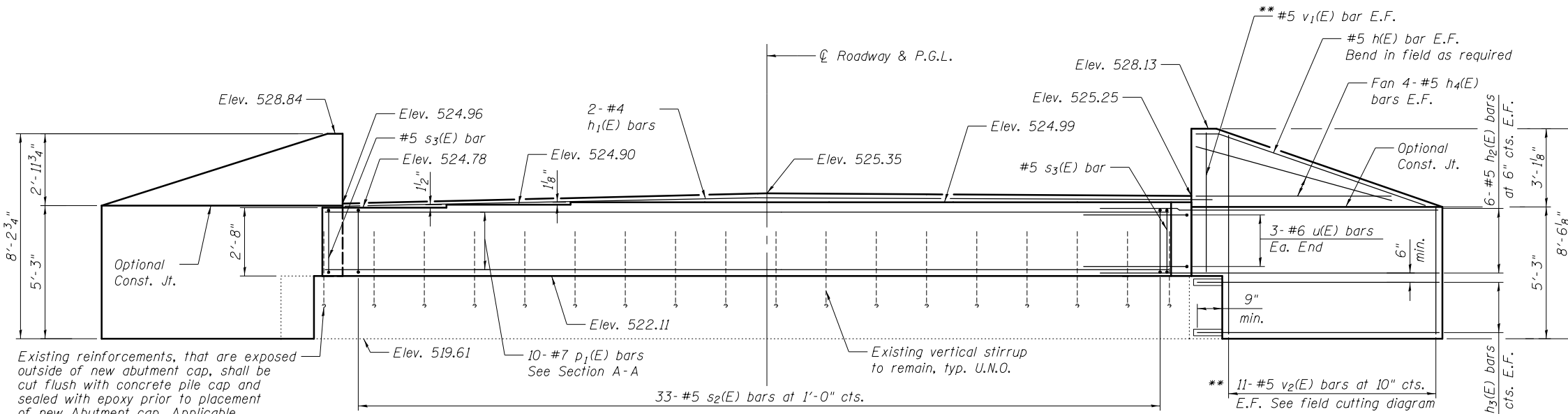
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PLOT DATE = 3/31/2014	DRAWN - KO	REVISED
	CHECKED - 8/23/2012	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ABUTMENT CONCRETE REMOVAL**  
**STRUCTURE NO. 099-0181**

SHEET NO. S15 OF S20 SHEETS

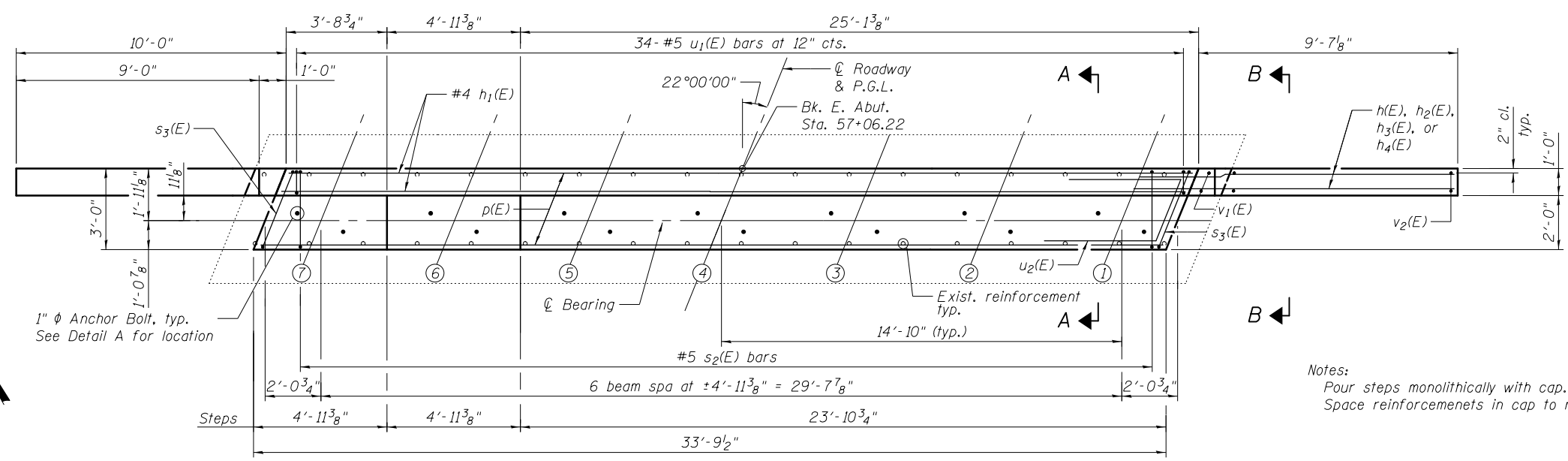
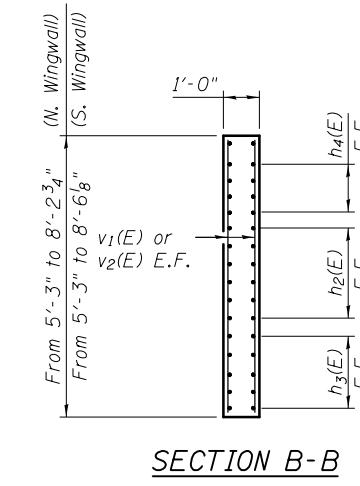
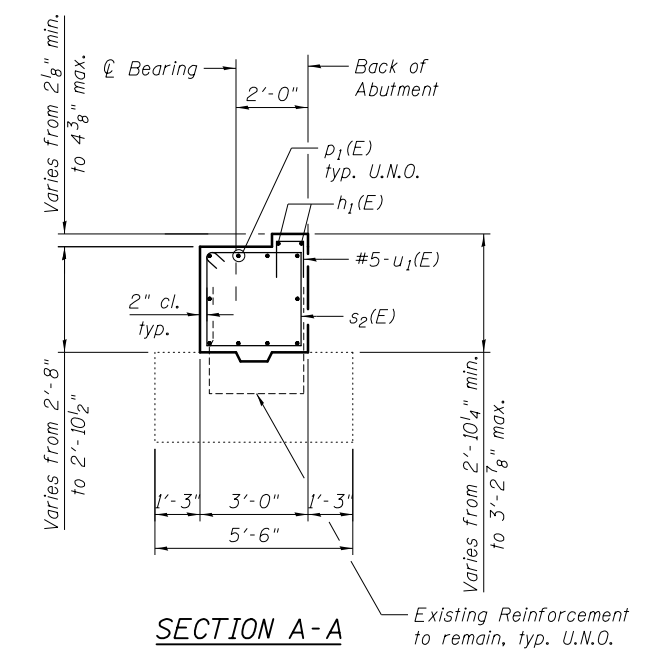
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	53
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	



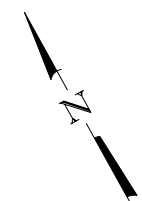
Existing reinforcements, that are exposed outside of new abutment cap, shall be cut flush with concrete pile cap and sealed with epoxy prior to placement of new Abutment cap. Applicable only to exterior existing reinforcements.

**ELEVATION**  
(Looking North)  
u<sub>1</sub>(E) bars not shown for clarity

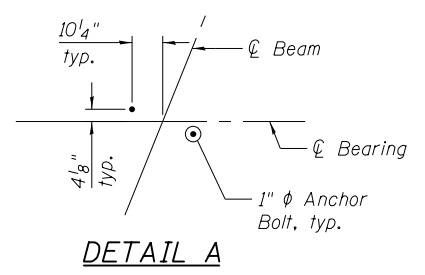
\* Epoxy grout #5 h<sub>3</sub>(E) bars in 9" (min.) drilled holes according to Article 584 of the Standard Specifications.



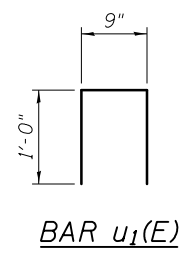
**PLAN**



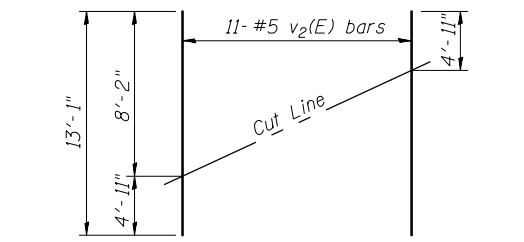
Notes:  
Pour steps monolithically with cap.  
Space reinforcements in cap to miss anchor bolts.



**DETAIL A**



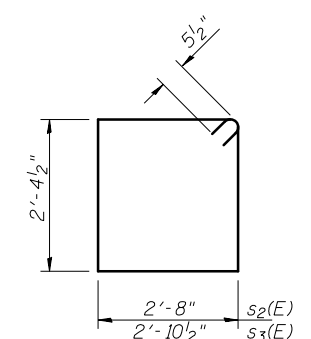
**BAR u<sub>1</sub>(E)**



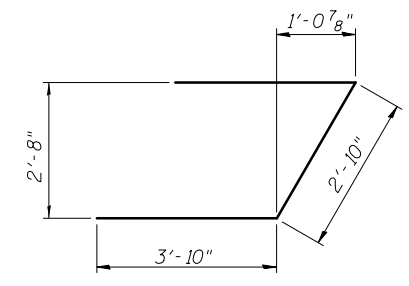
**FIELD CUTTING DIAGRAM-BAR v<sub>2</sub>(E)**

Order v<sub>2</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.

\*\* Cut v<sub>1</sub>(E) and v<sub>2</sub>(E) bars in field to fit in North Wingwall.



**BARS s<sub>2</sub>(E) & s<sub>3</sub>(E)**



**BAR u<sub>2</sub>(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h(E)	4	#5	10'-0"	—	
h <sub>1</sub> (E)	2	#4	33'-5"	—	
h <sub>2</sub> (E)	24	#5	12'-10"	—	
h <sub>3</sub> (E)	20	#5	9'-3"	—	
h <sub>4</sub> (E)	16	#5	8'-3"	—	
p <sub>1</sub> (E)	10	#7	33'-5"	—	
s <sub>2</sub> (E)	34	#5	11'-0"	U	
s <sub>3</sub> (E)	2	#5	11'-5"	U	
u <sub>1</sub> (E)	36	#5	2'-9"	U	
u <sub>2</sub> (E)	6	#6	10'-6"	U	
v <sub>1</sub> (E)	4	#5	6'-0"	—	
v <sub>2</sub> (E)	44	#5	13'-1"	—	
Concrete Structures				Cu. Yd.	15.9
Reinforcement Bars, Epoxy Coated				Pound	2,650

FILENAME: F:\3-1319\_Budget\Drawings\CADD\Sheets\0990101-60536-016-East-abutment.dgn



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DESIGNED - KO  
CHECKED - BCM  
PLOT SCALE = N/A  
DRAWN - KO  
PLOT DATE = 3/31/2014

DESIGNED - KO  
CHECKED - BCM  
DRAWN - KO  
CHECKED - 8/23/2012

REVISED  
REVISED  
REVISED  
REVISED

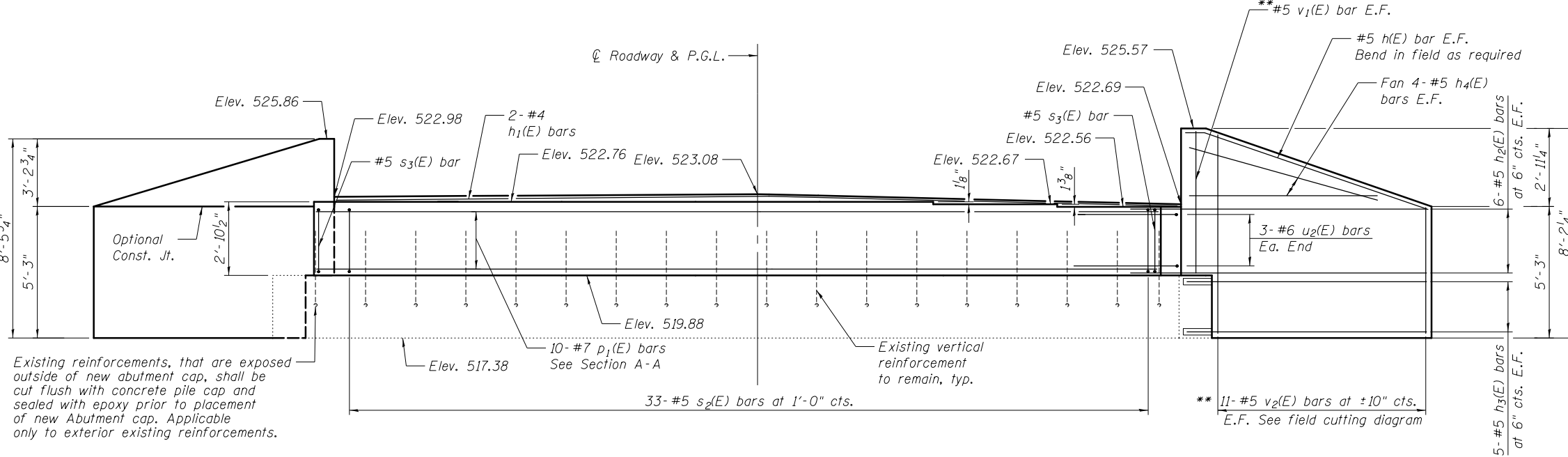
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT  
STRUCTURE NO. 099-0181**

SHEET NO. S16 OF S20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	54
				CONTRACT NO. 60X60

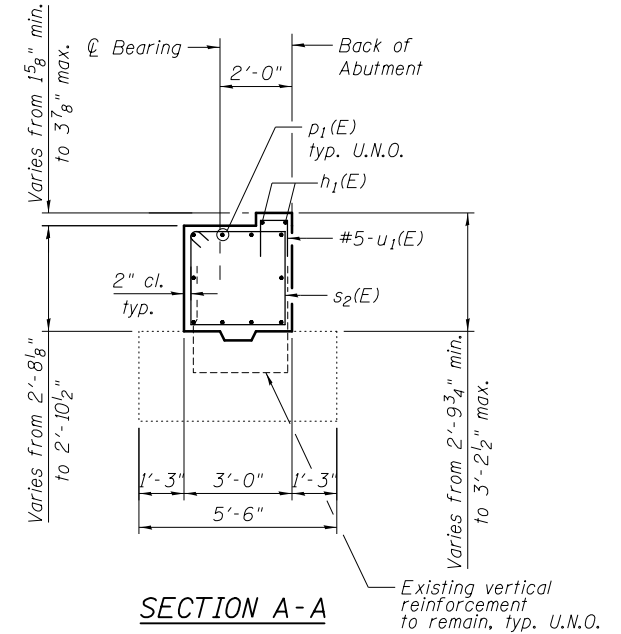
ILLINOIS FED. AID PROJECT



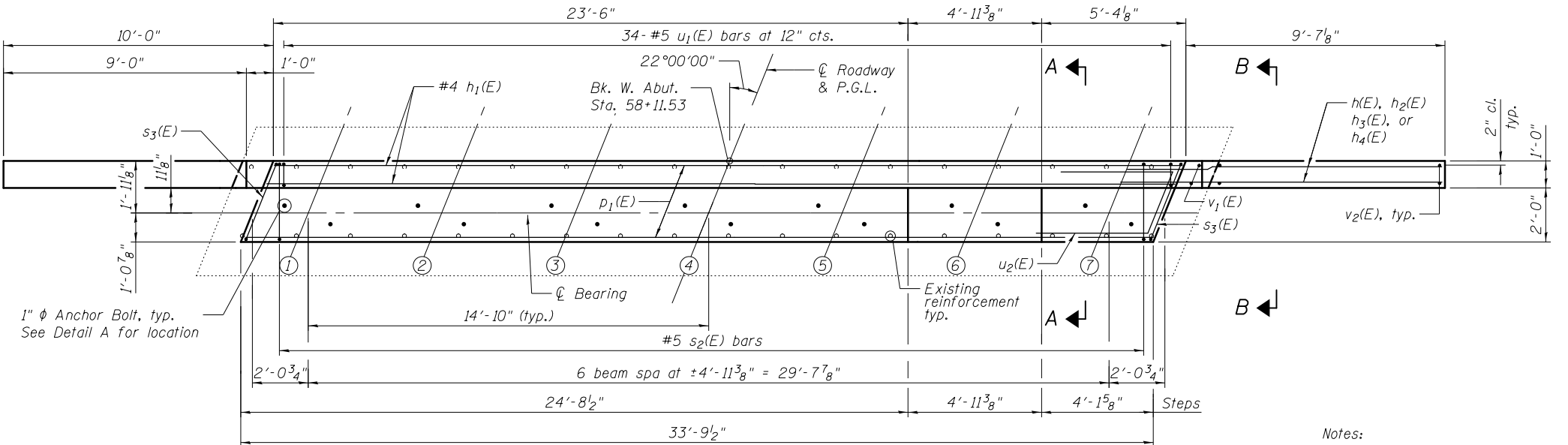
Existing reinforcements, that are exposed outside of new abutment cap, shall be cut flush with concrete pile cap and sealed with epoxy prior to placement of new Abutment cap. Applicable only to exterior existing reinforcements.

**ELEVATION**  
(Looking South)  
u<sub>1</sub>(E) bars not shown for clarity

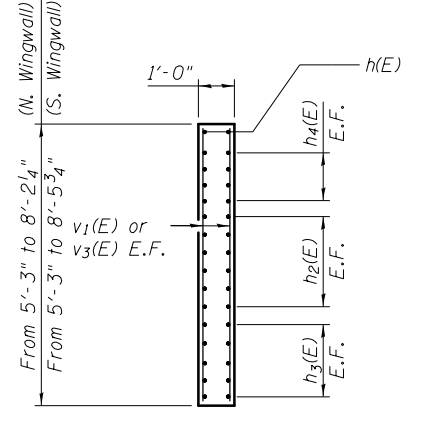
\* Epoxy grout #5 h<sub>3</sub>(E) bars in 9" (min.) drilled holes according to Article 584 of the Standard Specifications.



**SECTION A-A**  
Existing vertical reinforcement to remain, typ. U.N.O.



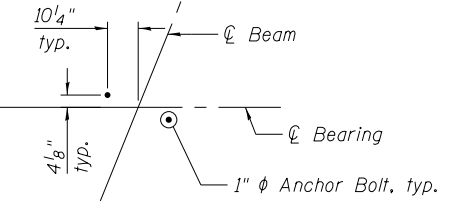
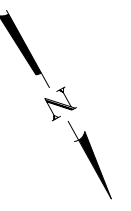
**PLAN**



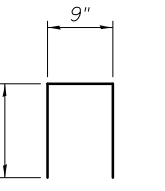
**SECTION B-B**

**BILL OF MATERIAL**

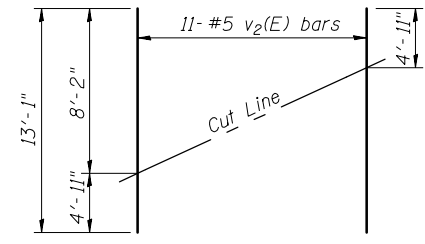
Bar	No.	Size	Length	Shape
h(E)	4	#5	10'-0"	—
h <sub>1</sub> (E)	2	#4	33'-5"	—
h <sub>2</sub> (E)	24	#5	12'-10"	—
h <sub>3</sub> (E)	20	#7	9'-3"	—
h <sub>4</sub> (E)	16	#5	8'-3"	—
p <sub>1</sub> (E)	10	#7	33'-5"	—
s <sub>2</sub> (E)	33	#5	11'-0"	□
s <sub>3</sub> (E)	2	#5	11'-5"	□
u <sub>1</sub> (E)	6	#6	10'-6"	U
u <sub>2</sub> (E)	34	#5	2'-9"	U
v <sub>1</sub> (E)	4	#5	6'-0"	—
v <sub>2</sub> (E)	44	#5	13'-1"	—
Concrete Structures	Cu. Yd.			15.9
Reinforcement Bars, Epoxy Coated	Pound			2,650



**DETAIL A**

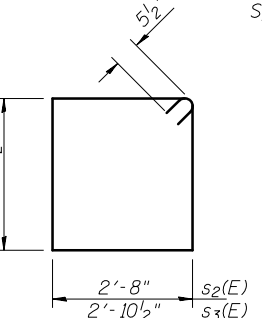


**BAR u<sub>1</sub>(E)**

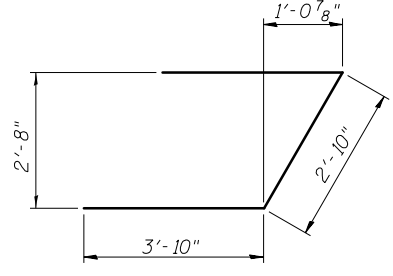


**FIELD CUTTING DIAGRAM-BAR v<sub>3</sub>(E)**

Order v<sub>2</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.  
\*\* Cut v<sub>1</sub>(E) and v<sub>2</sub>(E) bars in field to fit in North Wingwall.



**BARS s<sub>2</sub>(E) & s<sub>3</sub>(E)**



**BAR u<sub>2</sub>(E)**

Notes:  
Pour steps monolithically with cap.  
Space reinforcements in cap to miss anchor bolts.

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CHECKED - BCM  
PLOT SCALE = N/A  
DRAWN - KO  
CHECKED - 8/23/2012  
PLOT DATE = 3/31/2014

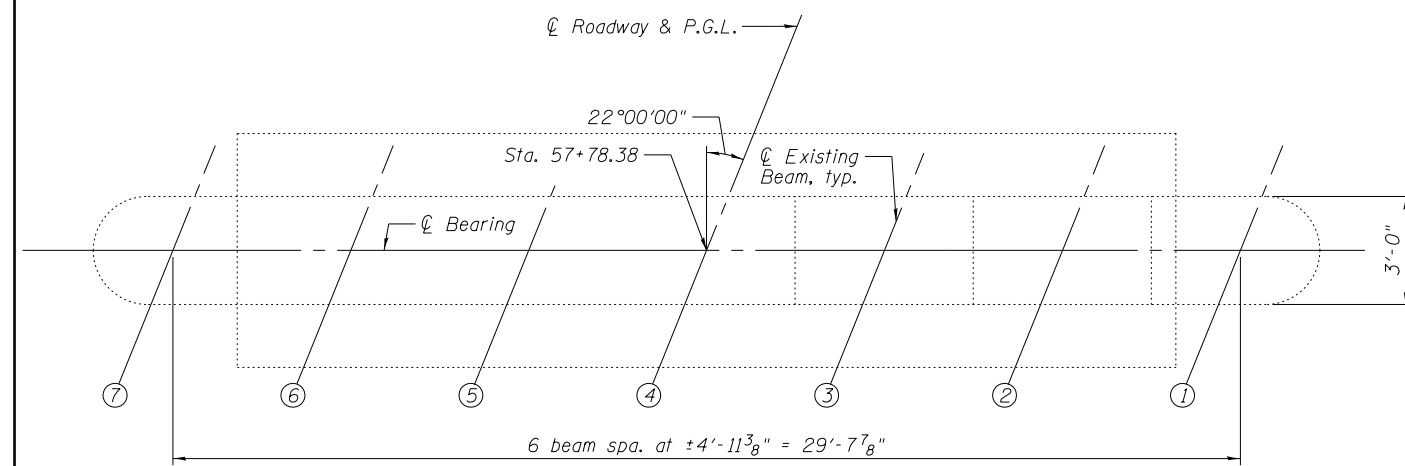
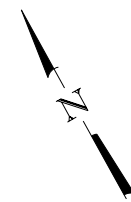
REVISIONS  
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REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

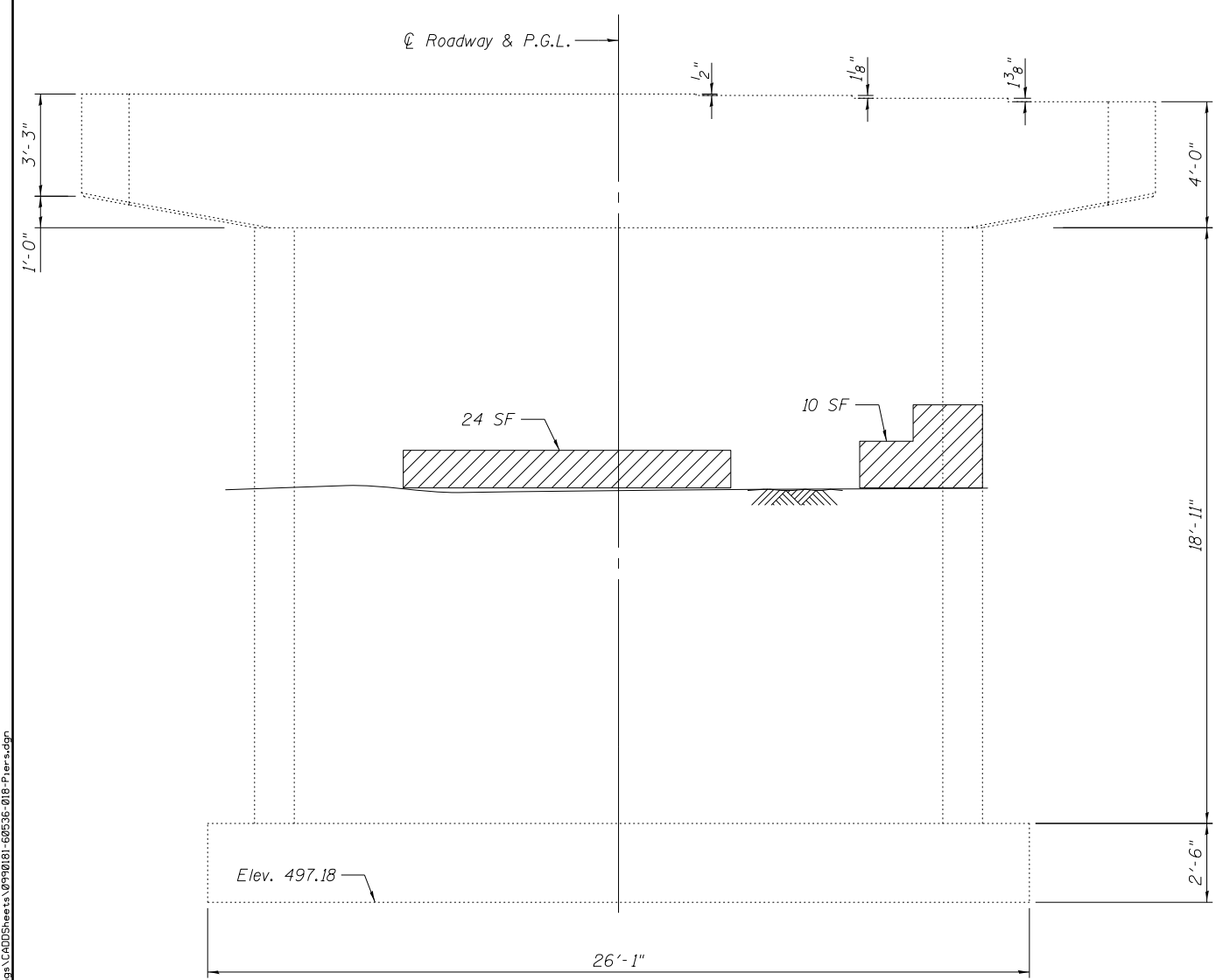
WEST ABUTMENT  
STRUCTURE NO. 099-0181

SHEET NO. S17 OF S20 SHEETS

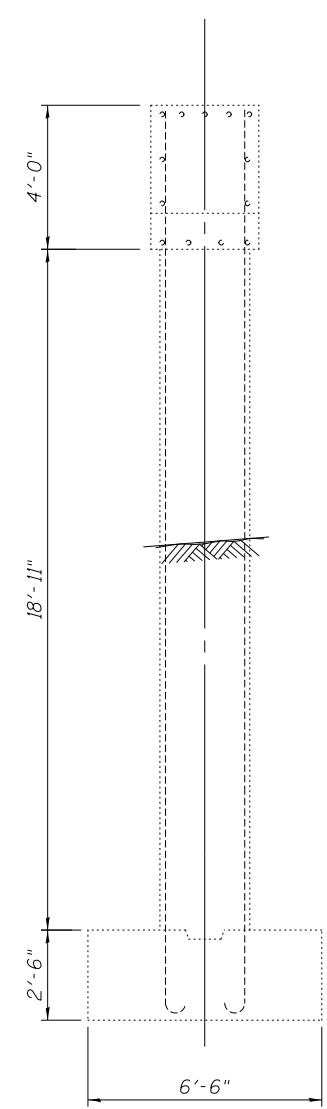
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	55
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	



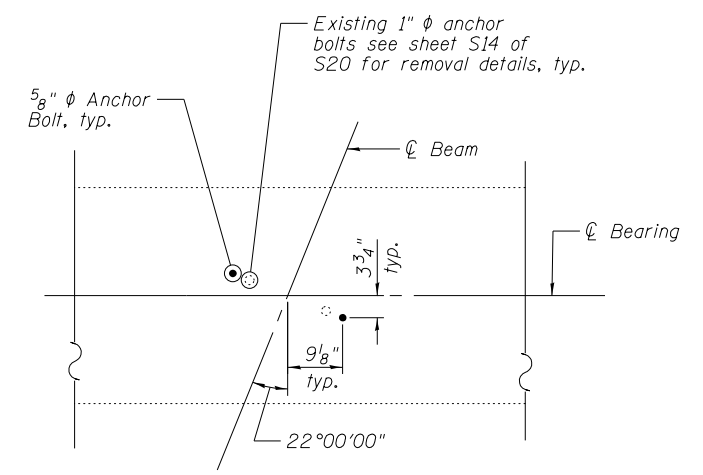
**PIERS 1 AND 2 PLAN**



**PIER 2 ELEVATION**  
(Looking East)



**SIDE ELEVATION**



**PIER 1 ANCHOR BOLT PLAN**

**LEGEND**

- Structural Repair of Concrete  
(Depth Equal to or Less than 5 inches)

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	34

FILENAME: F:\3-1319\_Budget\Drawings\CADD\Sheets\0990181-60536-018-Per.rxdgn

**BLOOM COMPANIES, LLC**  
Infrastructure Division and Specialty  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 876-6500 Fax: (312) 876-6600

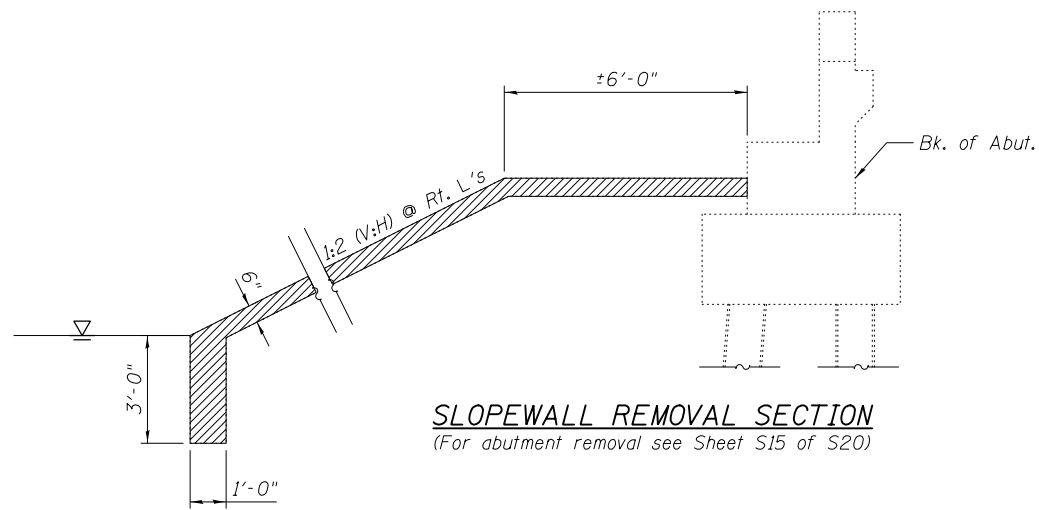
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

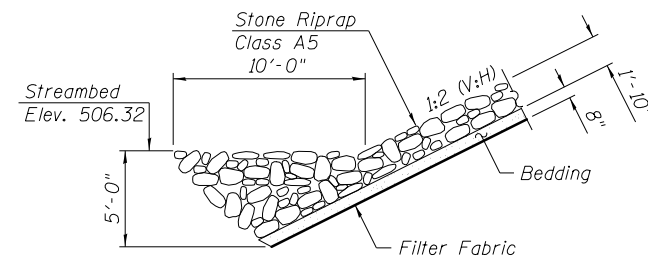
**PIER DETAILS**  
**STRUCTURE NO. 099-0181**  
SHEET NO. S18 OF S20 SHEETS

F.A.I. RTE. 55	SECTION 99-2HB-3I-3	COUNTY WILL	TOTAL SHEETS 87	SHEET NO. 56
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				

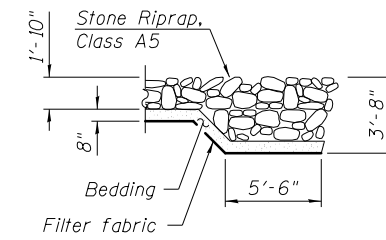




**SLOPEWALL REMOVAL SECTION**  
(For abutment removal see Sheet S15 of S20)

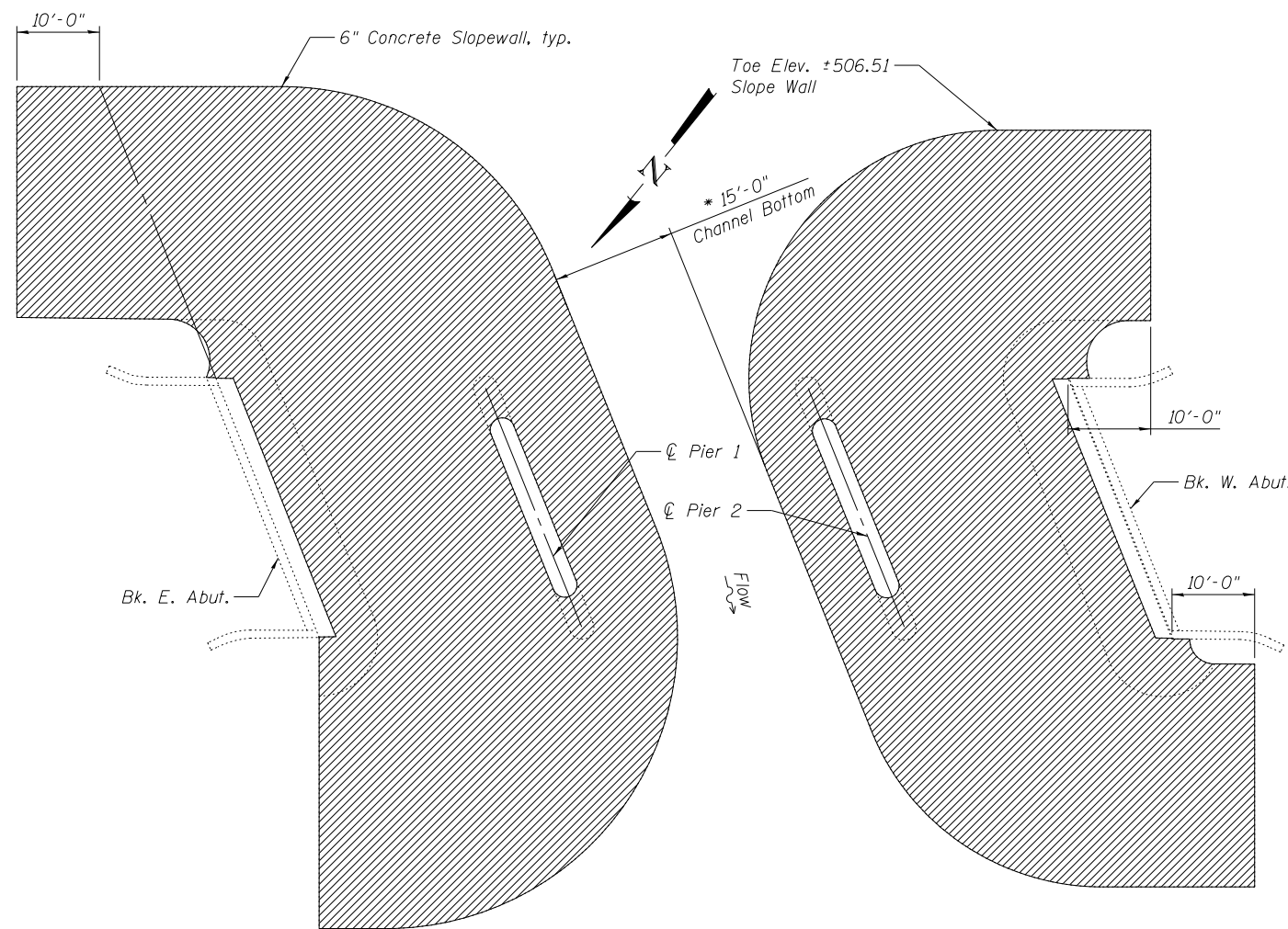


**SECTION A-A**

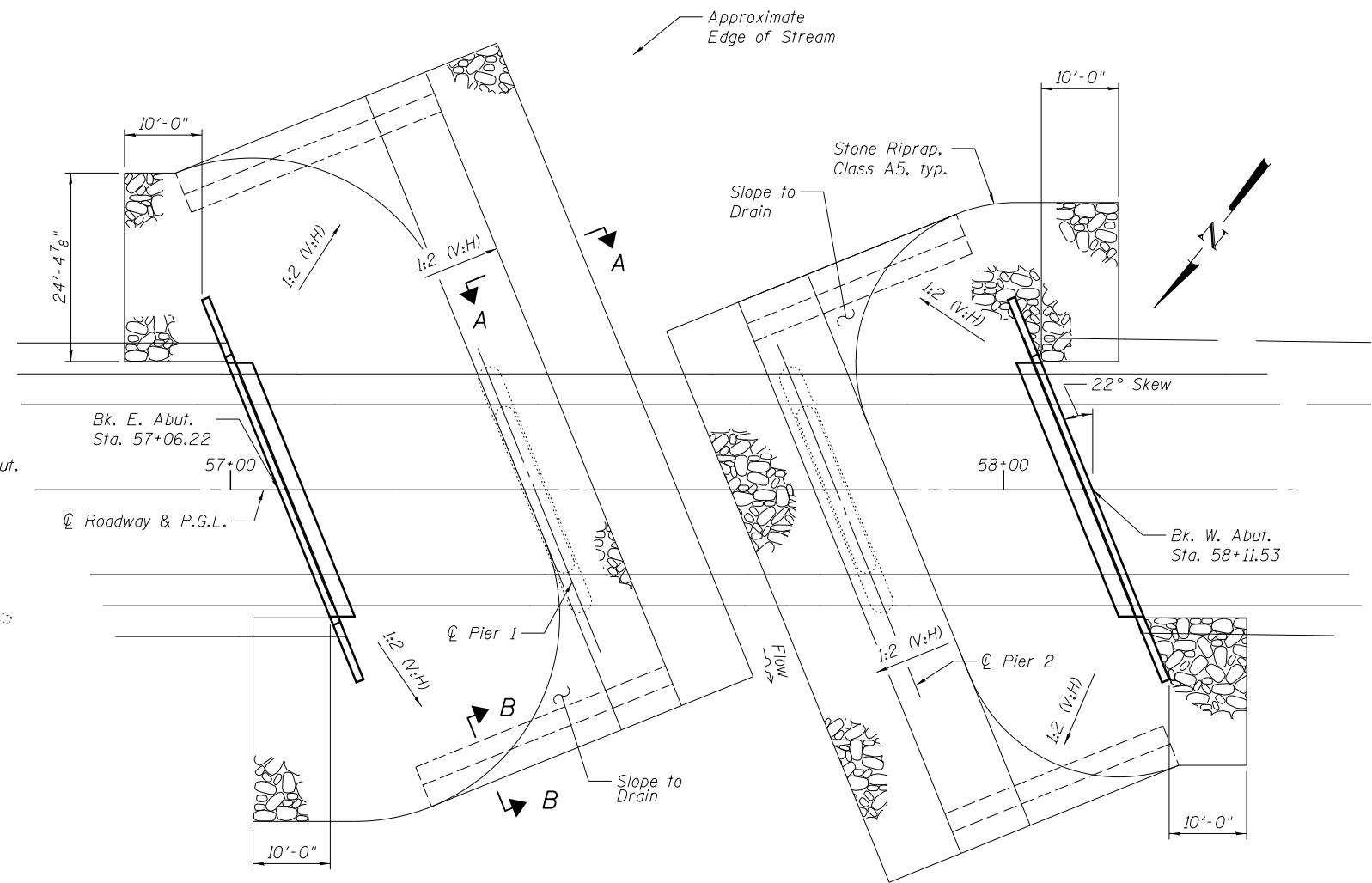


**SECTION B-B**

Note: Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.



**SLOPEWALL REMOVAL PLAN**



**RIPRAP PLAN**  
(Superstructure not shown for clarity)

**LEGEND**

Slope Wall Removal

**BILL OF MATERIALS**

Item	Unit	Total
Stone Riprap, Class A5	Sq. Yd.	1,005
Filter Fabric	Sq. Yd.	937
Slope Wall Removal	Sq. Yd.	1,009

\*Dimension based on existing plans. May not match current stream dimension.

FILENAME: F:\31319\Bldg\st\p\aranga\CADD\Sheets\099-01\1-60536-019-Slope Protection.dgn



USER NAME = tborges  
DESIGNED - BCM  
CHECKED - KO  
DRAWN - BCM  
PLOT DATE = 3/31/2014

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REVISED  
REVISED  
REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SLOPE WALL REMOVAL AND REPLACEMENT  
STRUCTURE NO. 099-0181**

SHEET NO. S19 OF S20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	57
				CONTRACT NO. 60X60

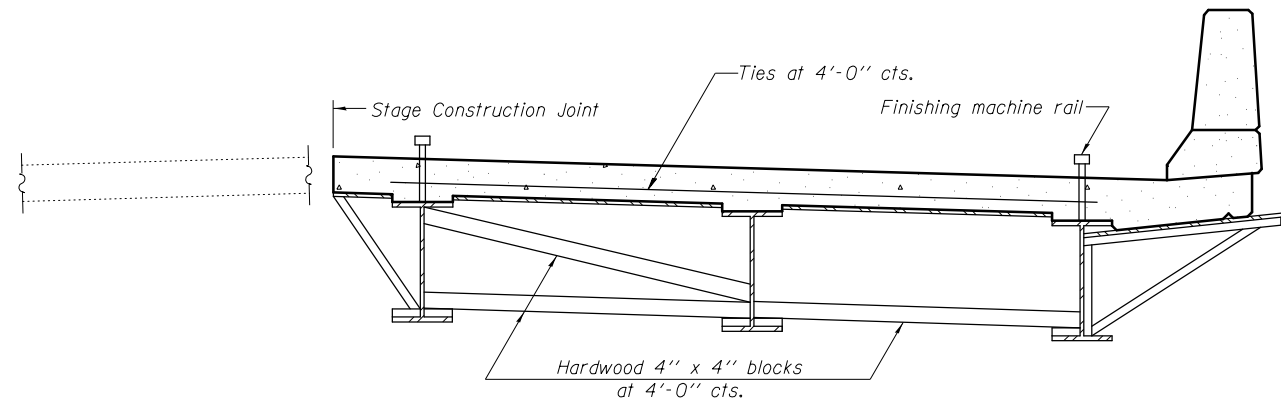
ILLINOIS FED. AID PROJECT

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

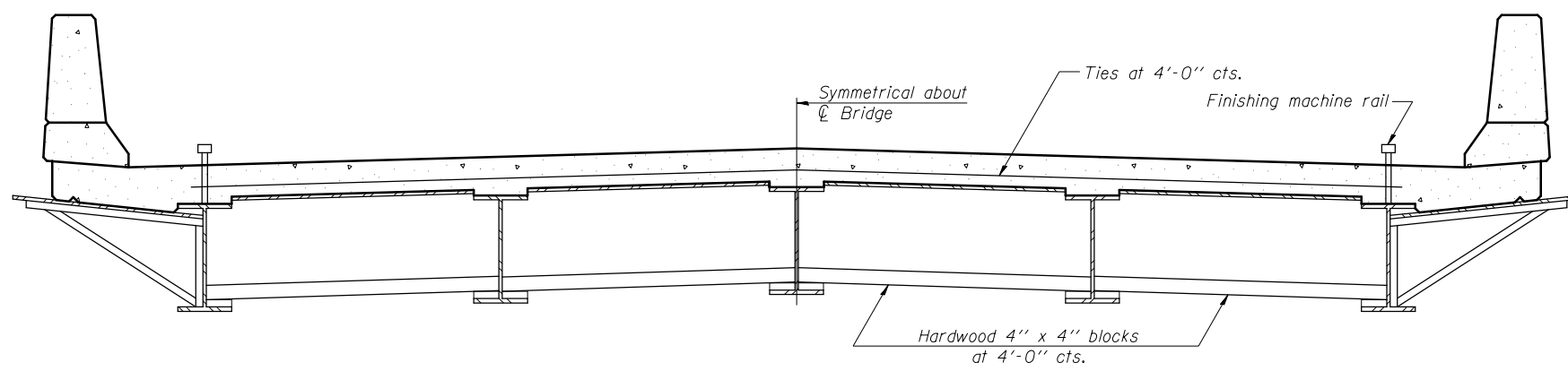
The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR  
STAGE CONSTRUCTION**



**FORM BRACES FOR  
STANDARD CONSTRUCTION**

FILENAME: F:\3-1319\_Budget\Drawings\CADD\Sheets\099-0181-60X60-020-Cantilever-Brackets.dgn

SB-1

7-1-10

**BLOOM COMPANIES, LLC**  
Infrastructure Division and Specialty  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 876-8500 Fax: (312) 876-8800

USER NAME = tborges	DESIGNED - BCM	REVISED
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PLOT SCALE = N/A	DRAWN - BCM	REVISED
PLOT DATE = 3/31/2014	CHECKED - 8/23/2012	REVISED

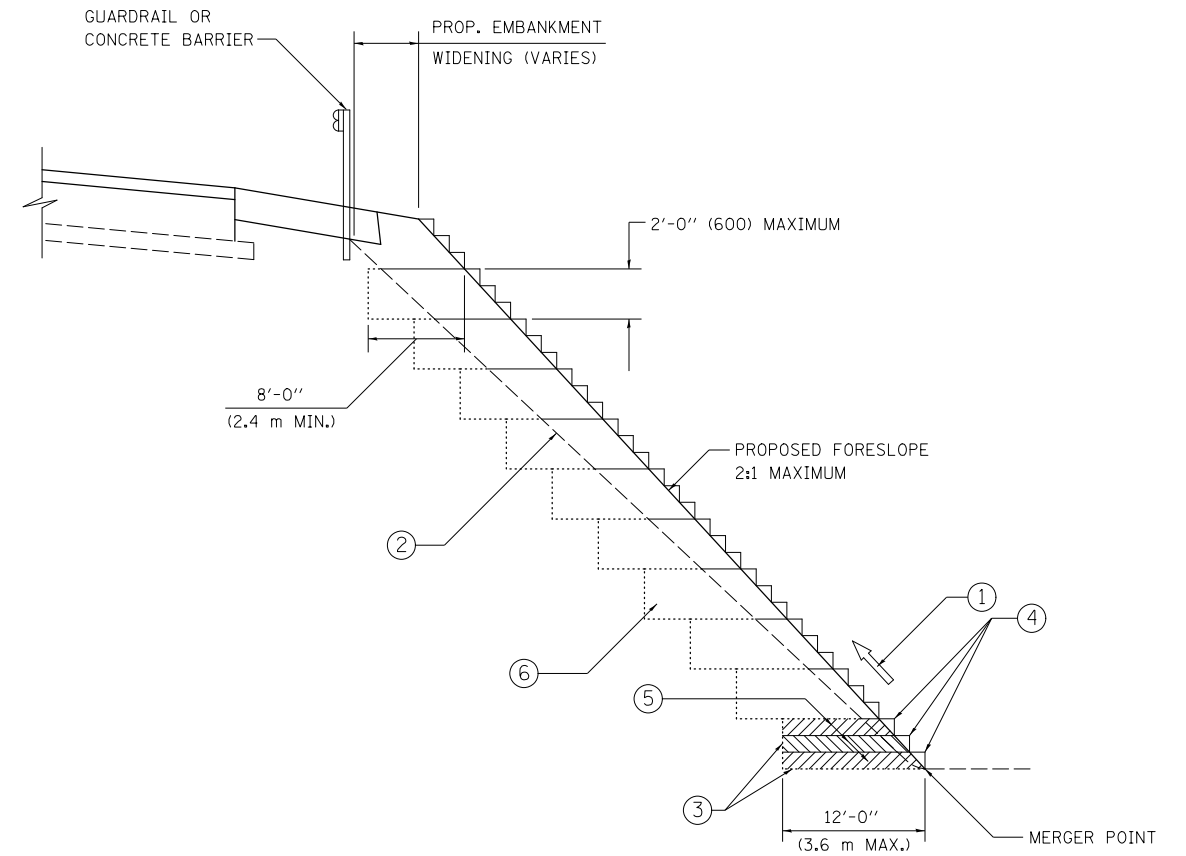
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES WITH  
W27 BEAMS AND SMALLER**

**STRUCTURE NO. 099-0181**

SHEET NO. S20 OF S20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	58
				CONTRACT NO. 60X60
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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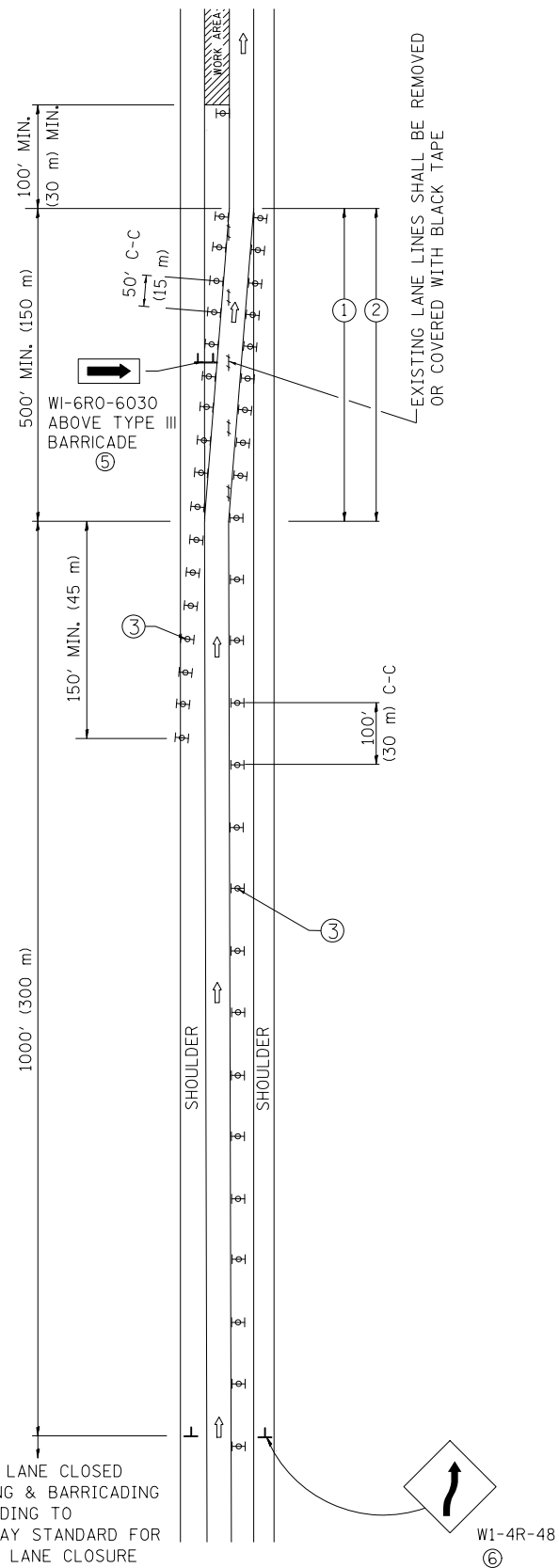
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	DRAWN - CADD	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

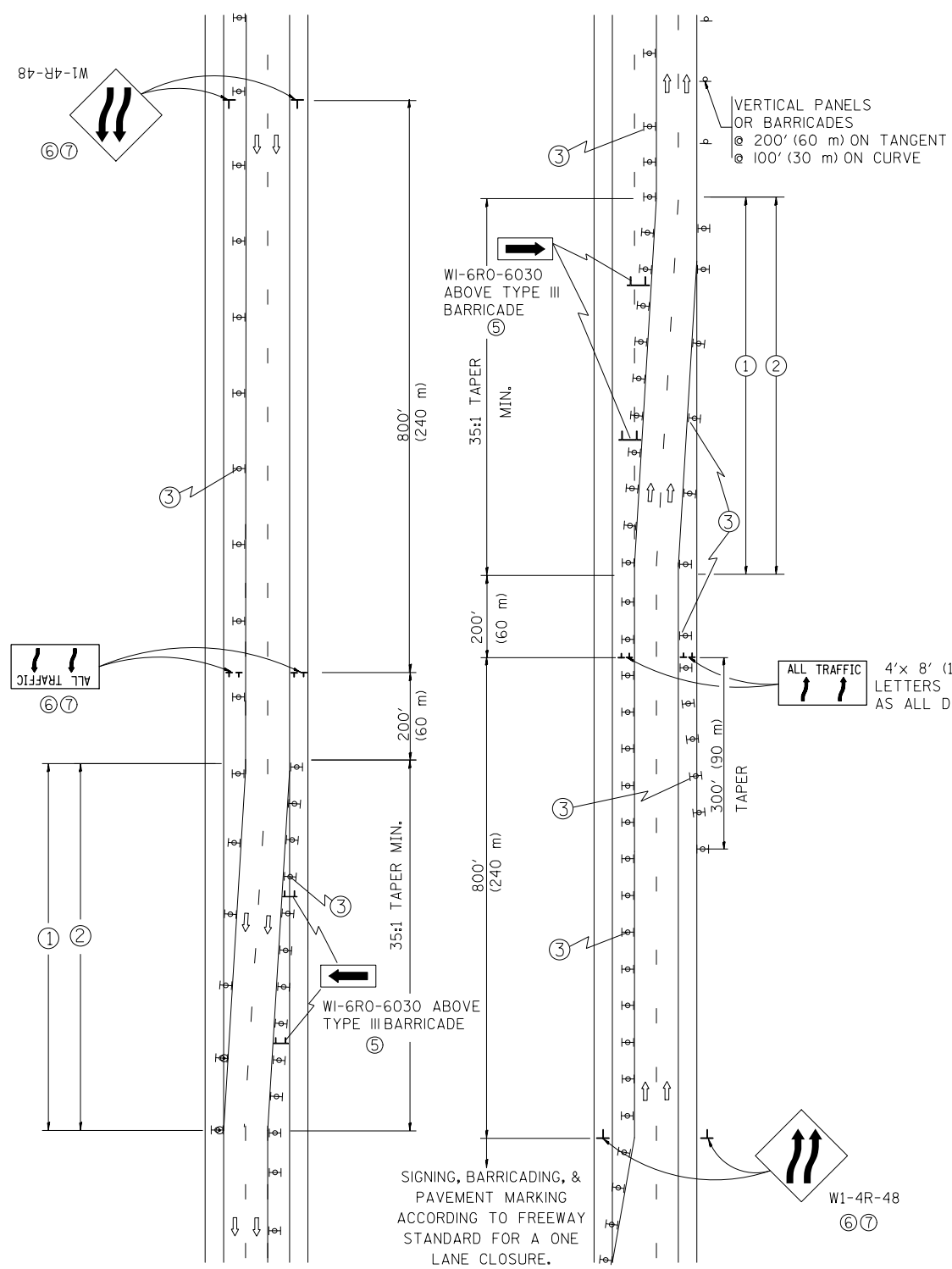
<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	59
<b>BD-51</b>			CONTRACT NO. 60X60	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



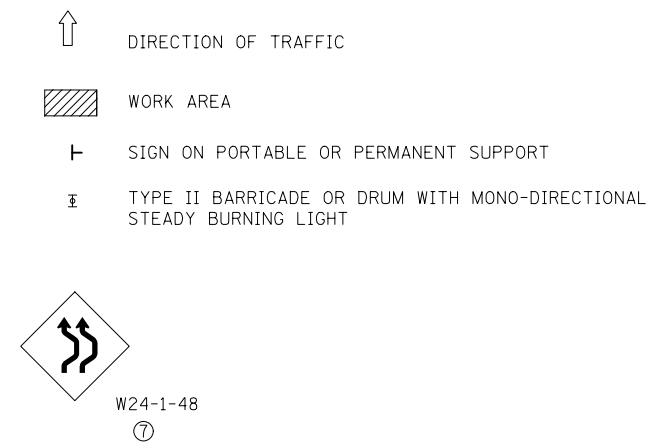
# MULTI-LANE WEAVE



## GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS 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.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. 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.

## SYMBOLS



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

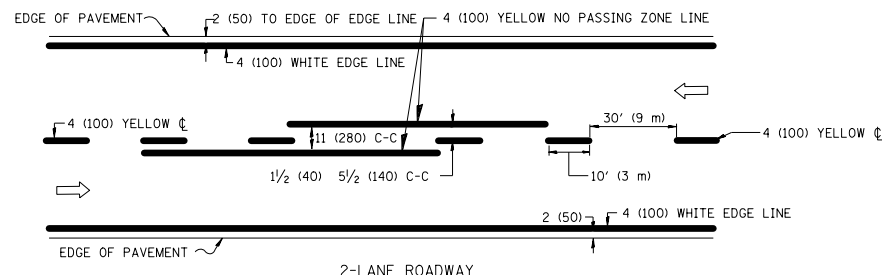
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	DRAWN -	REVISED - JAF 02-06
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PLOT DATE = 3/31/2014	DATE - 02-87	REVISED - SPB 12-09

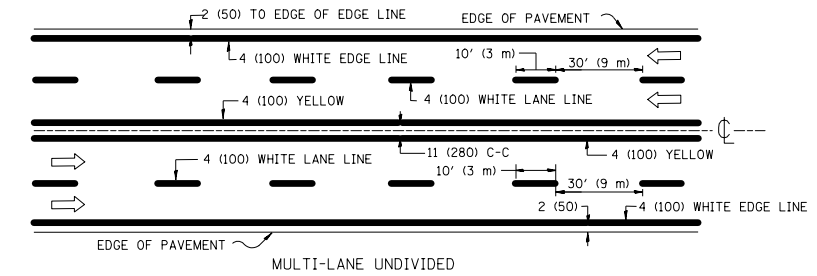
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR			
FREEWAY SINGLE & MULTI-LANE WEAVE			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

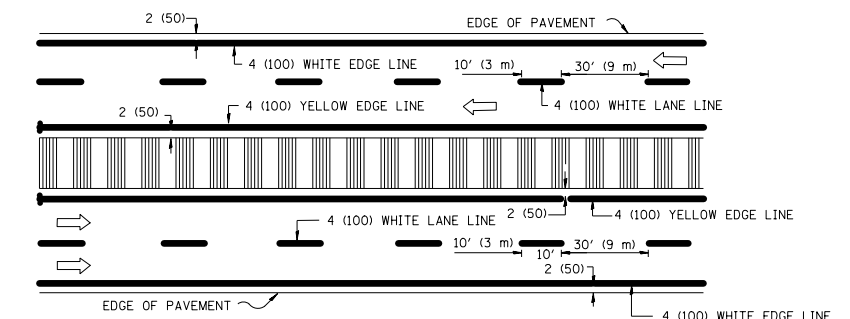
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	60
TC-09			CONTRACT NO. 60X60	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



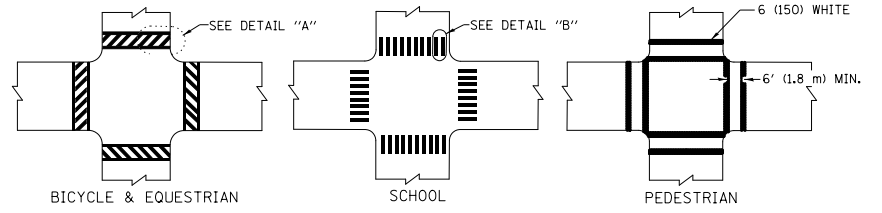
MULTI-LANE UNDIVIDED



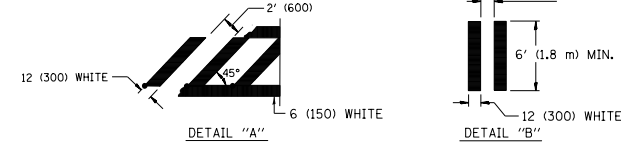
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

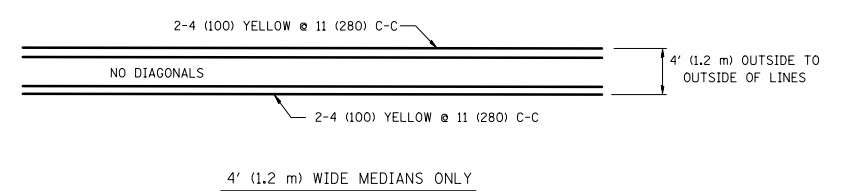
TYPICAL LANE AND EDGE LINE MARKING



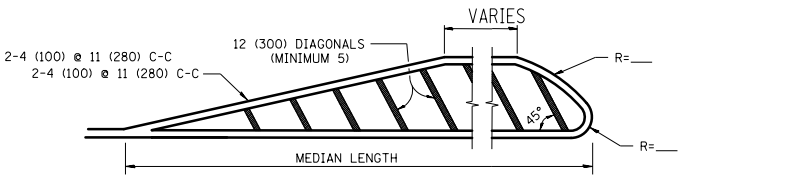
BICYCLE & EQUESTRIAN SCHOOL PEDESTRIAN



TYPICAL CROSSWALK MARKING



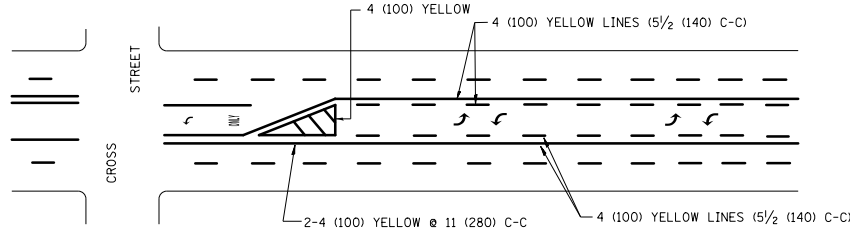
4' (1.2 m) WIDE MEDIANS ONLY



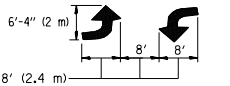
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

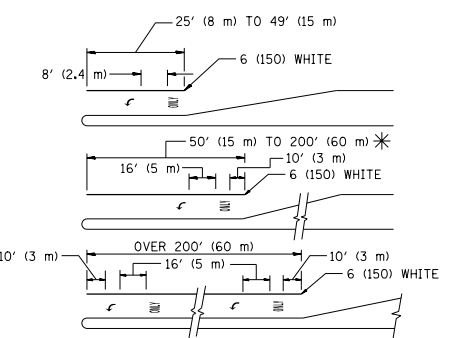


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

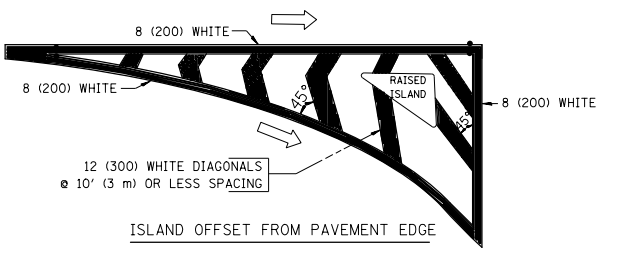


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

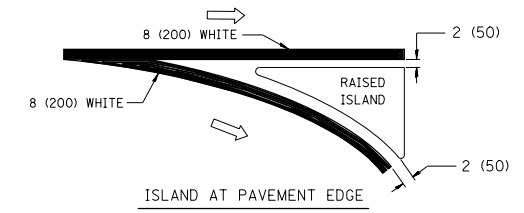
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> ) EACH
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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PLOT SCALE = 100.00' / in.	DRAWN -	REVISED -C. JUCIUS 09-09-09
PLOT DATE = 3/31/2014	CHECKED -	REVISED -
	DATE - 03-19-90	REVISED -

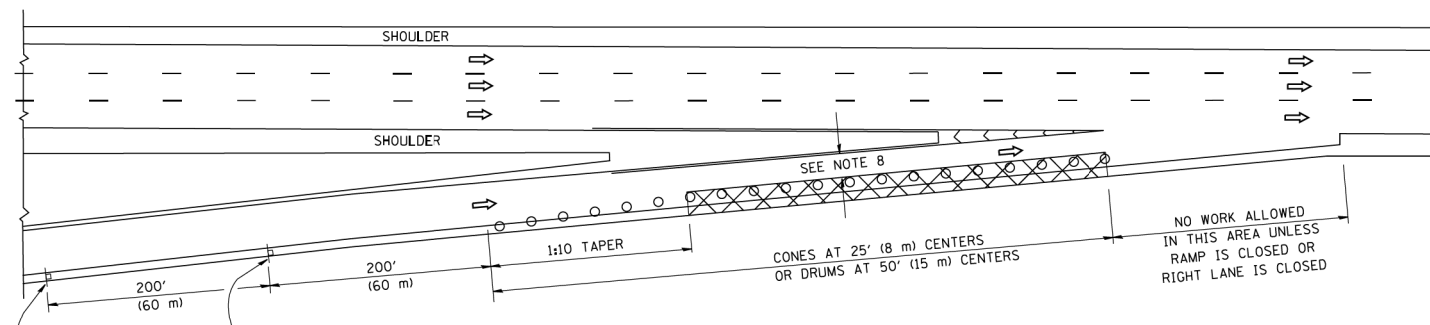
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	

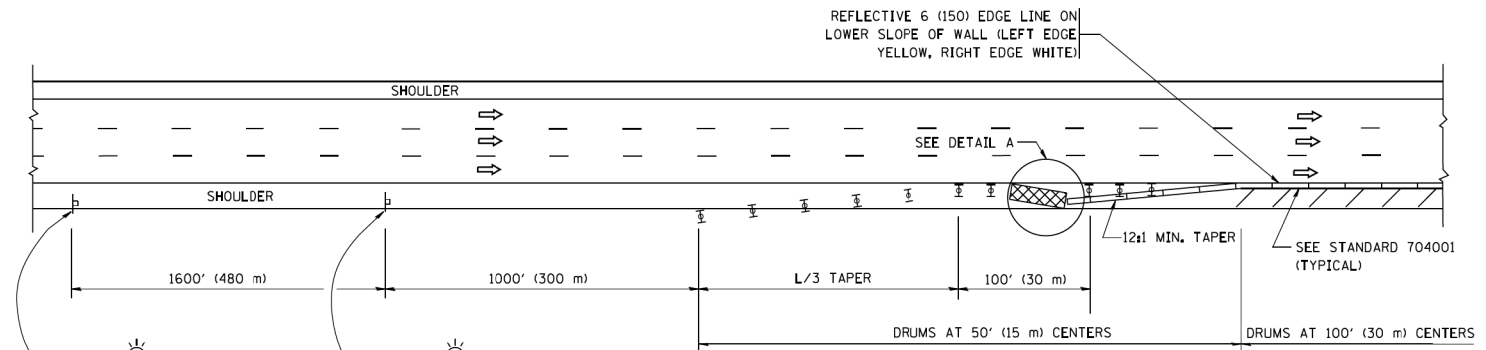
TC-13		CONTRACT NO. 60X60
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

PARTIAL RAMP CLOSURE DETAILS

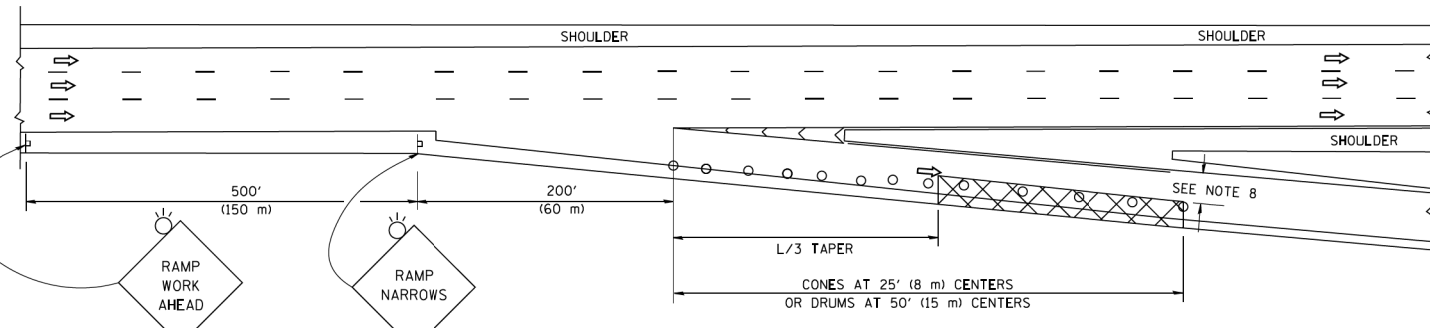
SHOULDER CLOSURE DETAILS



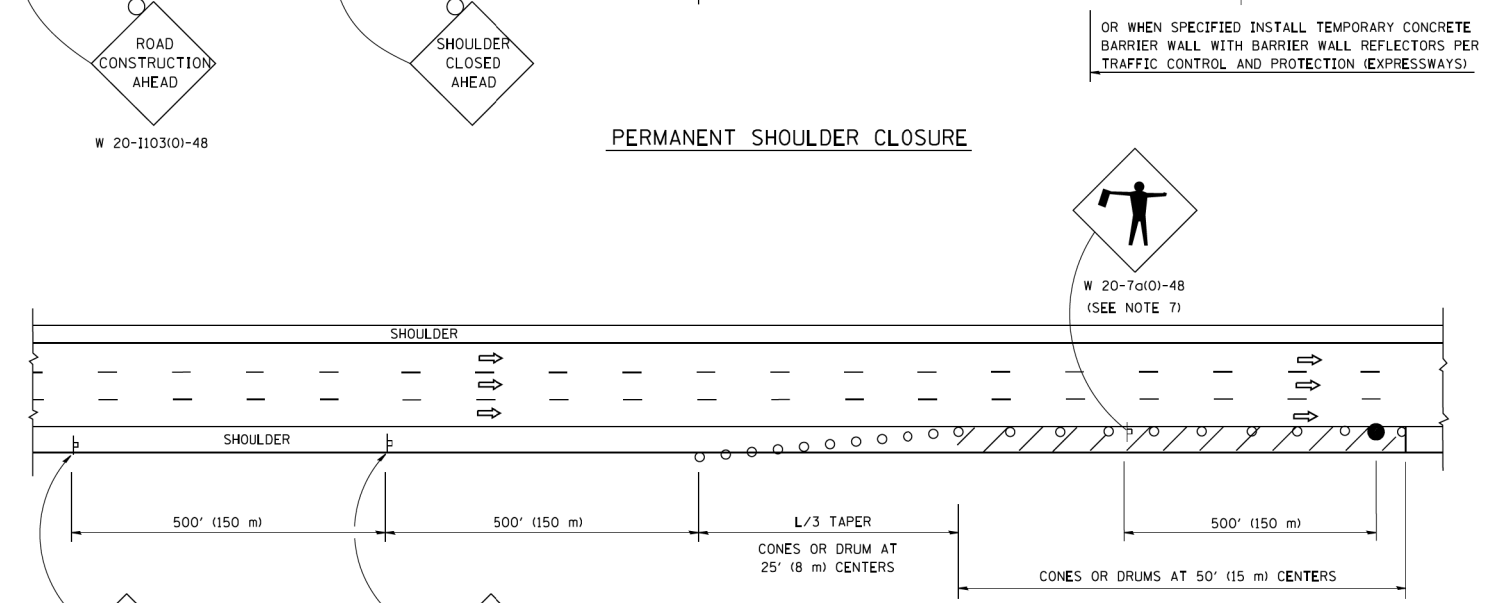
TYPICAL ENTRANCE RAMP



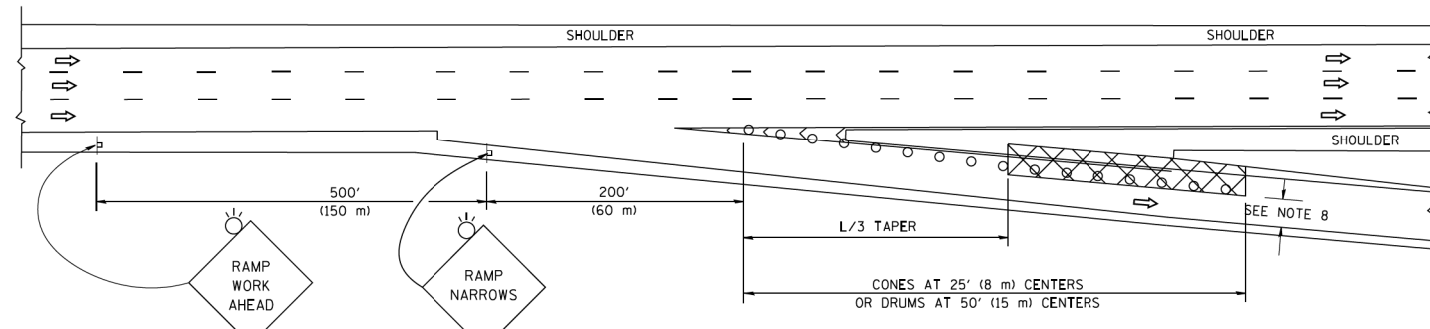
PERMANENT SHOULDER CLOSURE



TYPICAL EXIT RAMP



DAYTIME SHOULDER CLOSURE



TYPICAL EXIT RAMP

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 NIGHTIME 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 AVTIVITY REQUIRES FREQUENT ENCR OACHMENT 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.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

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

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

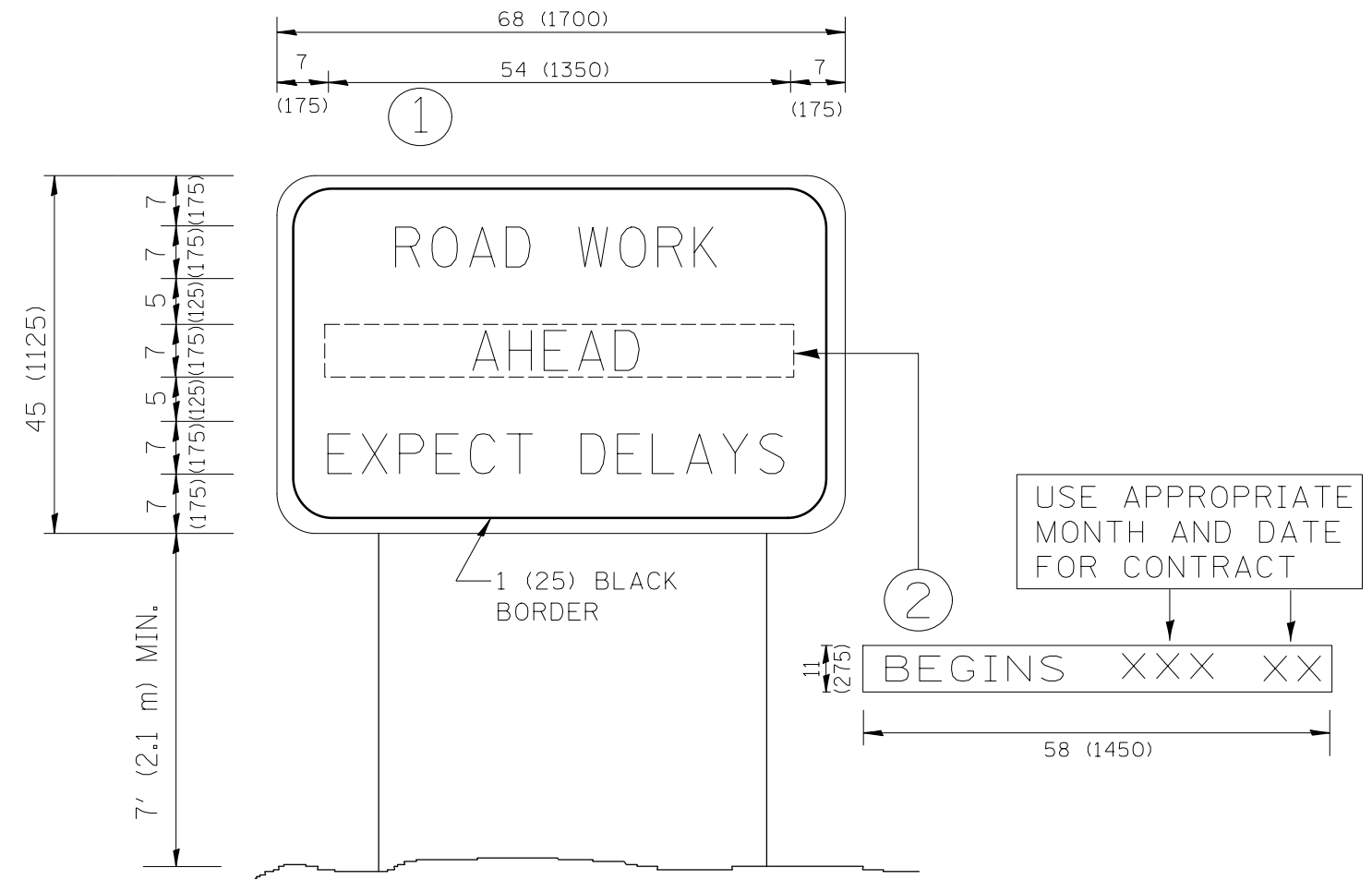
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	DRAWN - D.W.S.	REVISED - S.P.B. 01-07
PLOT SCALE = 100.00' / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 3/31/2014	DATE - 11-96	REVISED - M.D. 06-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY			
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	62
TC-17			CONTRACT NO. 60X60	
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.

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PLOT SCALE = 100.00' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/31/2014	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.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	63
TC-22			CONTRACT NO. 60X60	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = F:\3-1319\_Bldgett\Drawings\C4005\sheet5\1168536-ahc-dst.tbl.dgn

**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

M6-2-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

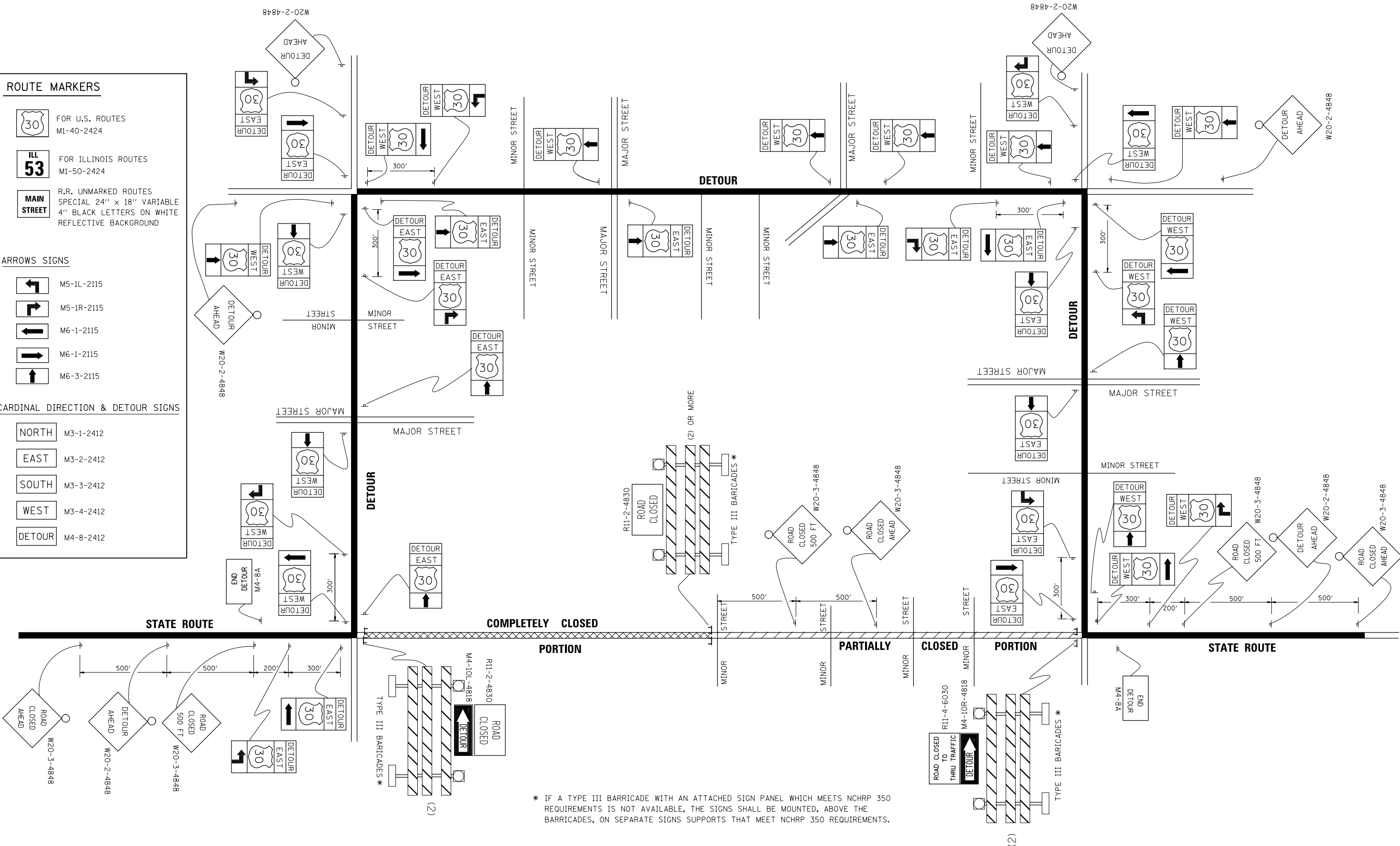
NORTH M3-1-2412

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.

USER NAME = tborjes	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 100.00' / in.	CHECKED -	REVISED -
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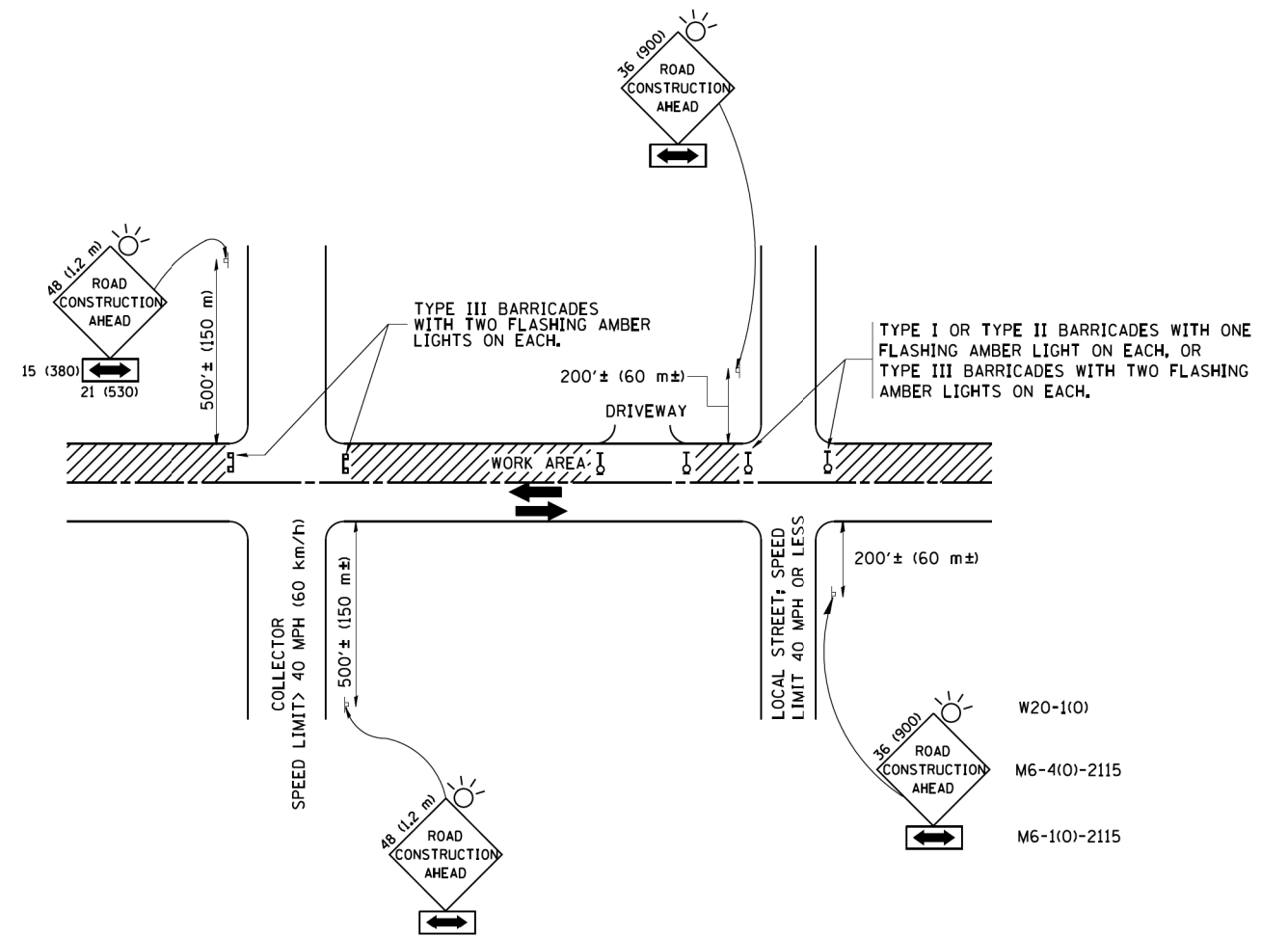
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	64
<b>TC-21</b>		CONTRACT NO. 60X60		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





W20-1(0)  
M6-4(0)-2115  
M6-1(0)-2115

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

#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- 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:
    - 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.
    - 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.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - 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.
    - 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.
  - 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.

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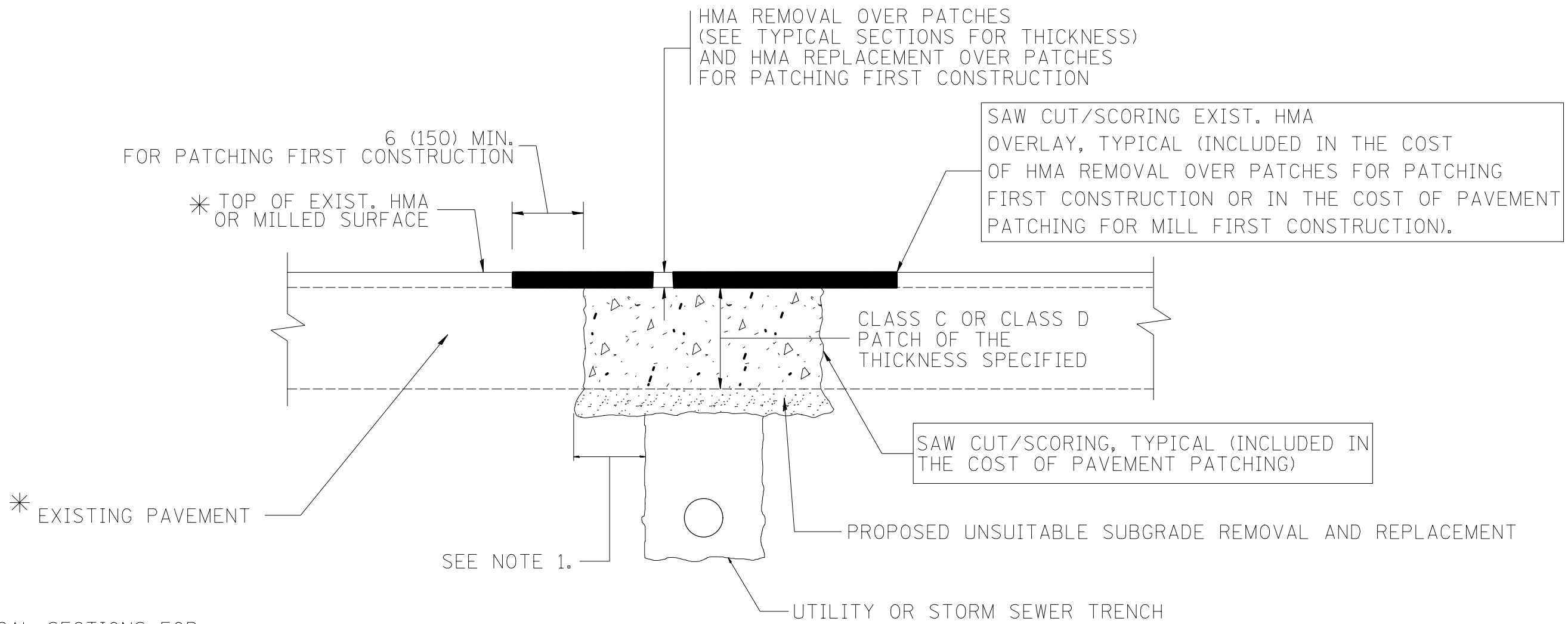
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		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	65
TC-10			CONTRACT NO. 60X60	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = F:\3-1319\_Budgets\Drawings\CADD\Sheets\0160536-sht-detail.dgn

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07		55	99-2HB-31-3	WILL	87	66			
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		<b>BD400-04 (BD-22)</b>		CONTRACT NO. 60X60					
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

MODEL NAME = AS\_Sheet Layout  
FILE NAME = F:\3132\_Engineer\Drawings\CADD\Drawings\99-2HB-31-3\99-2HB-31-3.dwg



USER NAME	=	tborges
DESIGNED	-	MMO
DRAWN	-	BL
CHECKED	-	LSA
DATE	-	9/25/2013

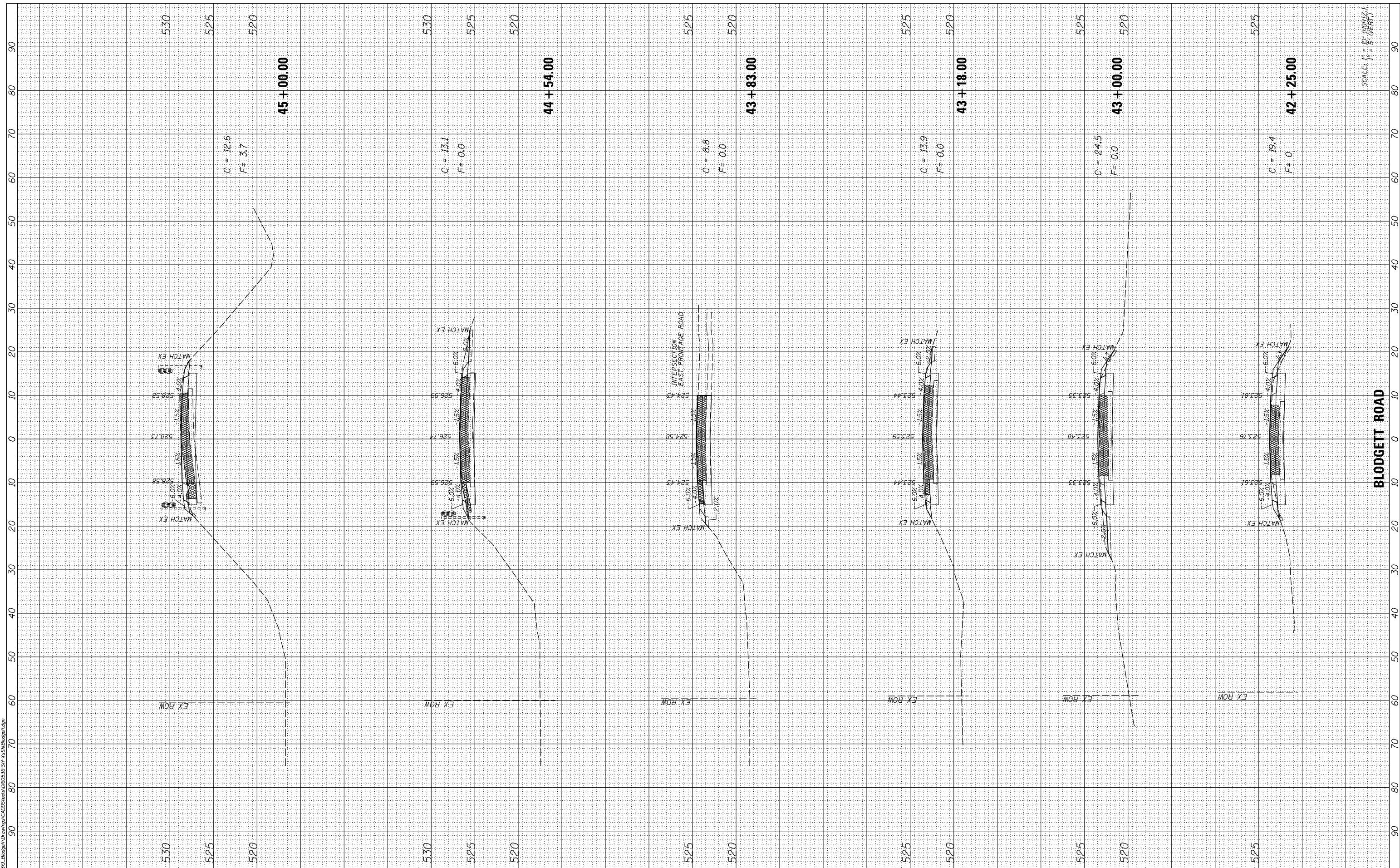
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1" = 10' SHEET OF SHEETS STA. 42+25.00 TO STA. 45+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	67
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				

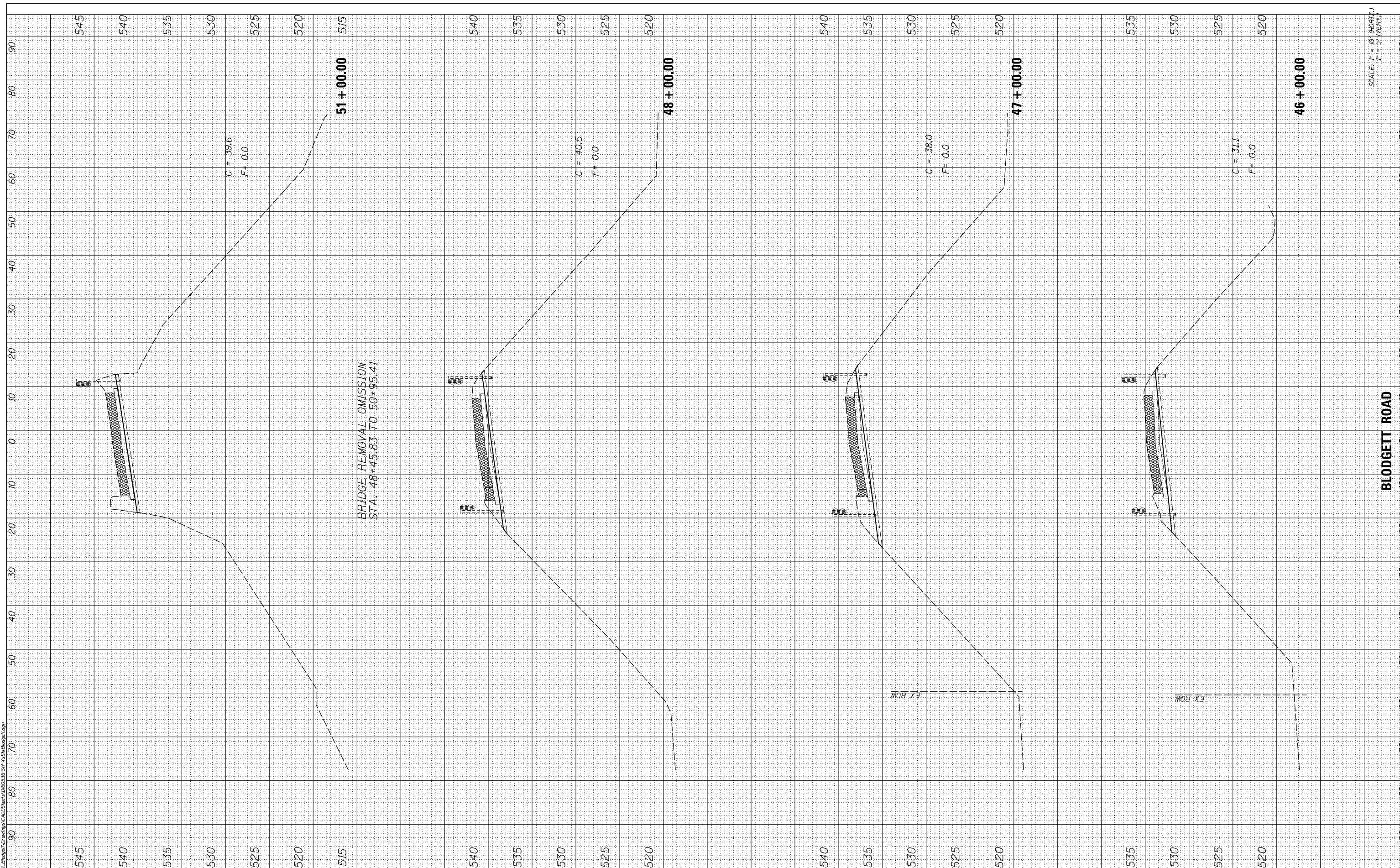


SCALE: 1" = 10' (VERTICAL)  
1" = 50' (HORIZONTAL)

BY	DATE

BY	DATE

MODEL NAME - AS Steel Layout  
FILE NAME - F:\3131-Engin\Drawings\CADD\Drawings\60536-31-AS-SteelLayout.dwg



USER NAME	= tborjes
DESIGNED	- MMO
DRAWN	- BL
CHECKED	- LSA
DATE	- 9/25/2013

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	1" = 10'				
SHEET	OF	SHEETS	STA. 46+00.00	TO	STA. 51+00.00

**CROSS SECTIONS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	68
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				

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

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

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

MODEL NAME: AS Steel Layout  
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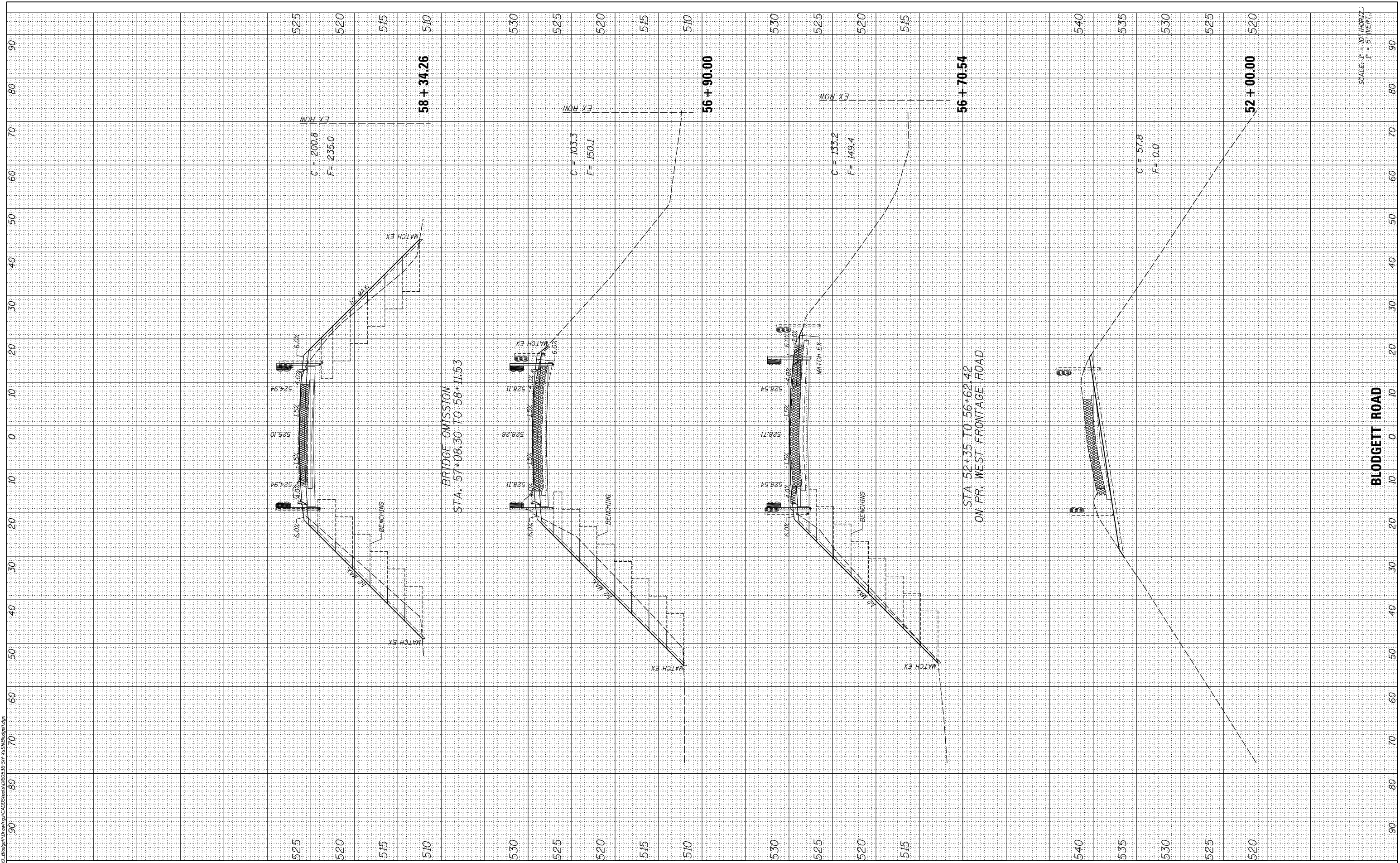
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DESIGNED -	MMO
DRAWN -	BL
CHECKED -	LSA
DATE -	9/25/2013
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1" = 10' SHEET OF SHEETS STA. 52+00.00 TO STA. 58+34.26

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	69
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X60	



DATE  
BY  
SURVEYED  
PLOTTED  
NOTE BOOK  
AREAS CHECKED

DATE  
BY  
SURVEYED  
PLOTTED  
NOTE BOOK  
AREAS CHECKED

MODEL NAME: AS\_Sheet Layout  
FILE NAME: F:\31532\_Enginetool\Drawings\CAD\Drawings\985353-3F4\SSB\Roadway.dwg



USER NAME = tborjes  
PLOT SCALE = 20.0000" / in.  
PLOT DATE = 3/31/2014

DESIGNED - MMO  
DRAWN - BL  
CHECKED - LSA  
DATE - 9/25/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

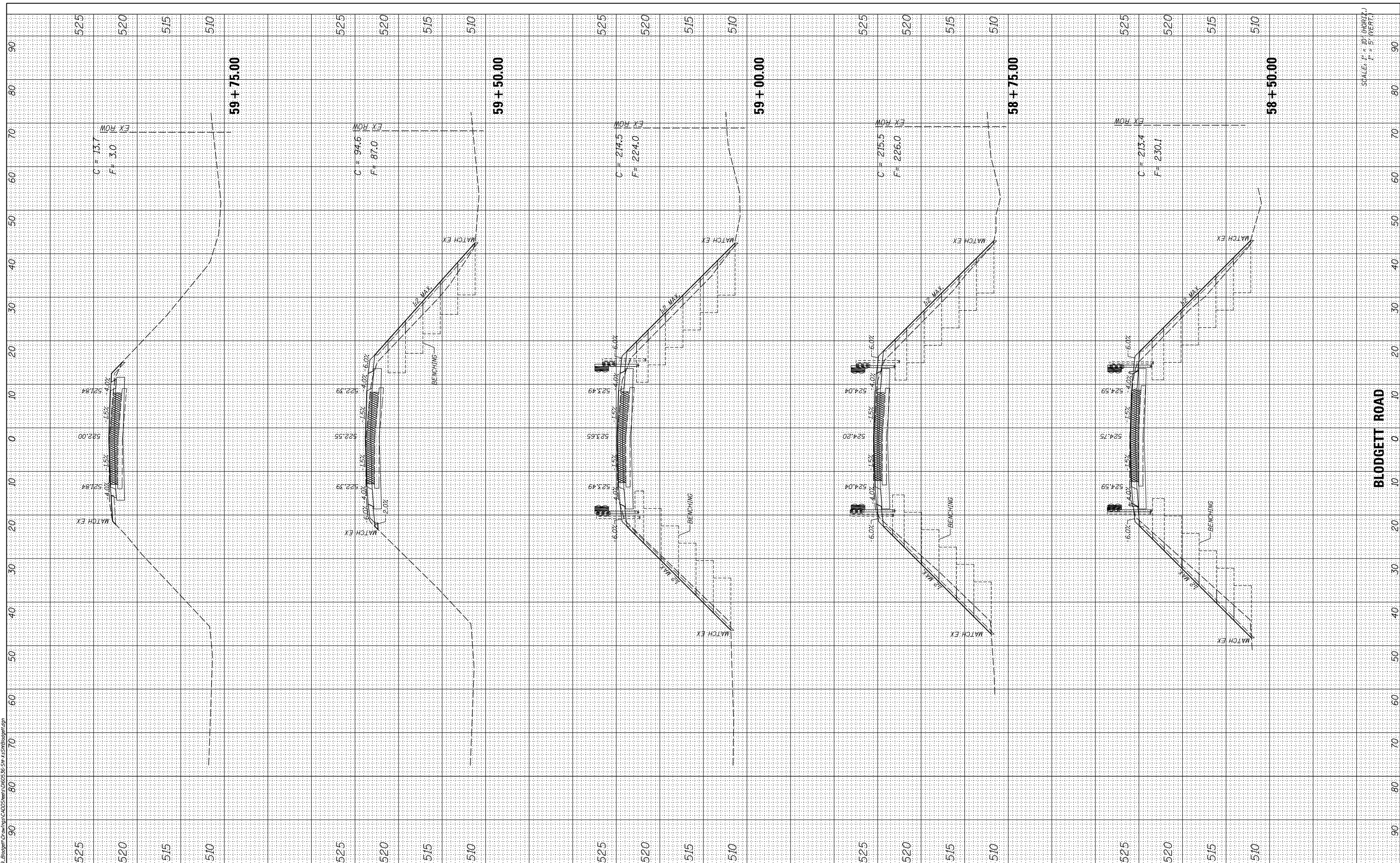
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1" = 10'  
SHEET OF SHEETS  
STA. 58+50.00 TO STA. 59+75.00

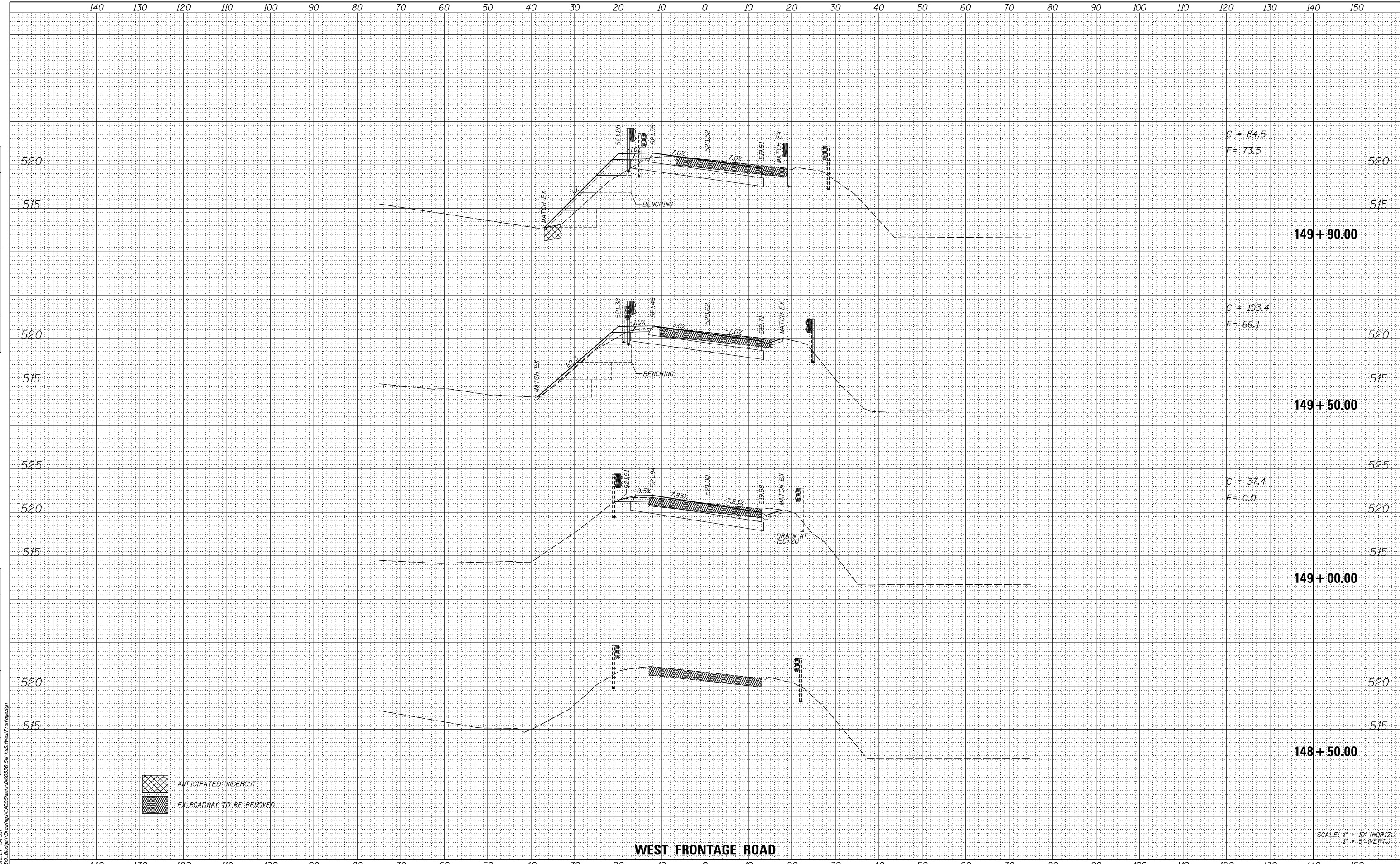
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	70
				CONTRACT NO. 60X60

ILLINOIS FED. AID PROJECT



BLODGETT ROAD

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



WEST FRONTAGE ROAD

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

BY	DATE

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	
	AREAS	
	CHECKED	
	AREAS	
	CHECKED	

**BLOOM COMPANIES, LLC**  
Infrastructure Innovation and Integrity  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 878-6500 Fax: (312) 878-8800

USER NAME =	tborges
DESIGNED -	MMO
DRAWN -	BL
CHECKED -	LSA
DATE -	9/25/2013

REVISOR	REVISION

DESIGNED -	MMO	REVISOR	
DRAWN -	BL	REVISION	
CHECKED -	LSA		
DATE -	9/25/2013		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

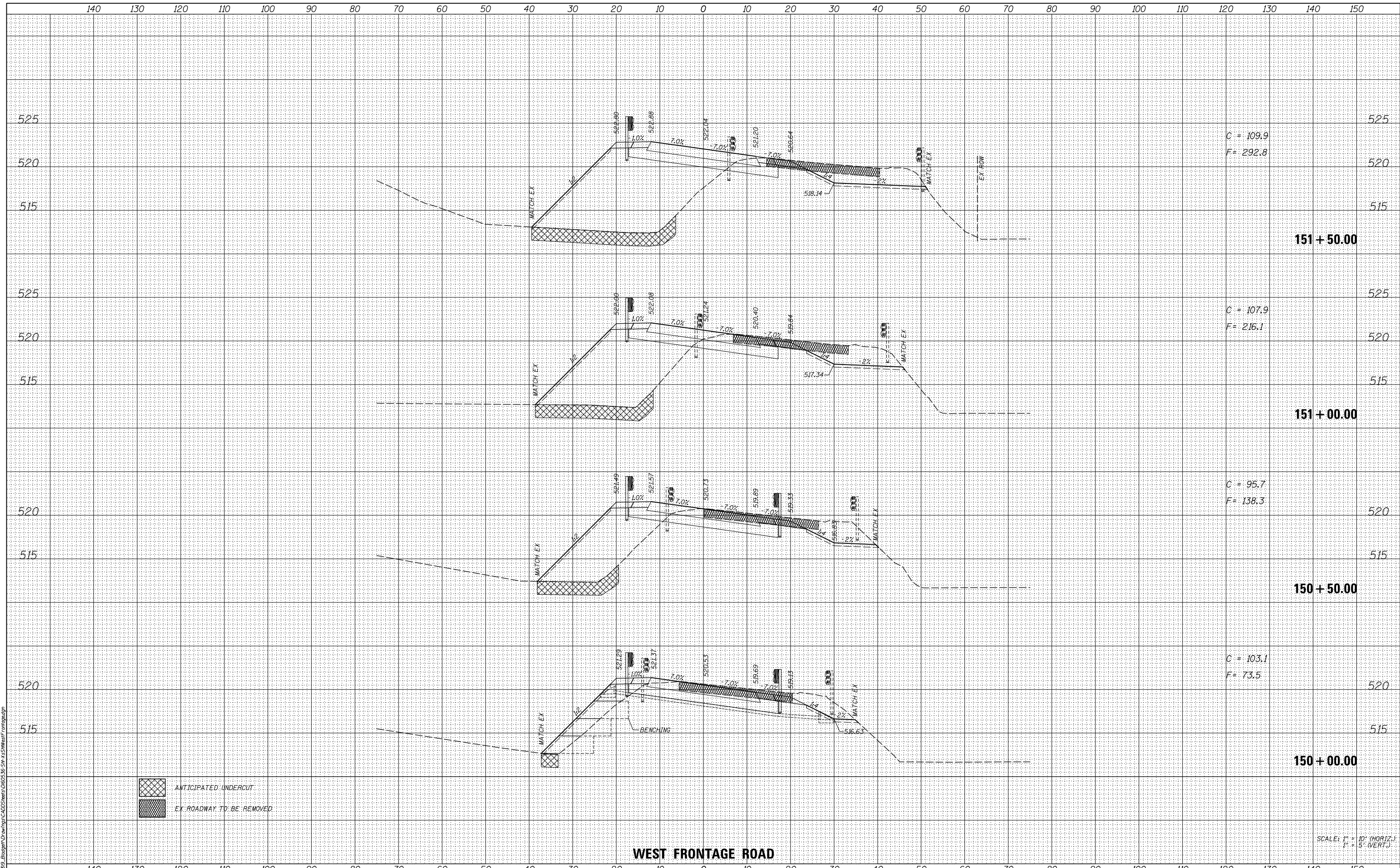
**CROSS SECTIONS**

SCALE: 1" = 10' SHEET 5 OF 10 SHEETS STA. 148+50.00 TO STA. 149+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	71
CONTRACT NO.			60X60	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	



MODEL NAME: AS SHEET LAYOUT  
FILE NAME: F:\3131-Engin\Drawings\CADD\Drawings\3131-31\WestFrontage.dwg



USER NAME	= tborges
DESIGNED	- MMO
DRAWN	- BL
CHECKED	- LSA
DATE	- 9/25/2013
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

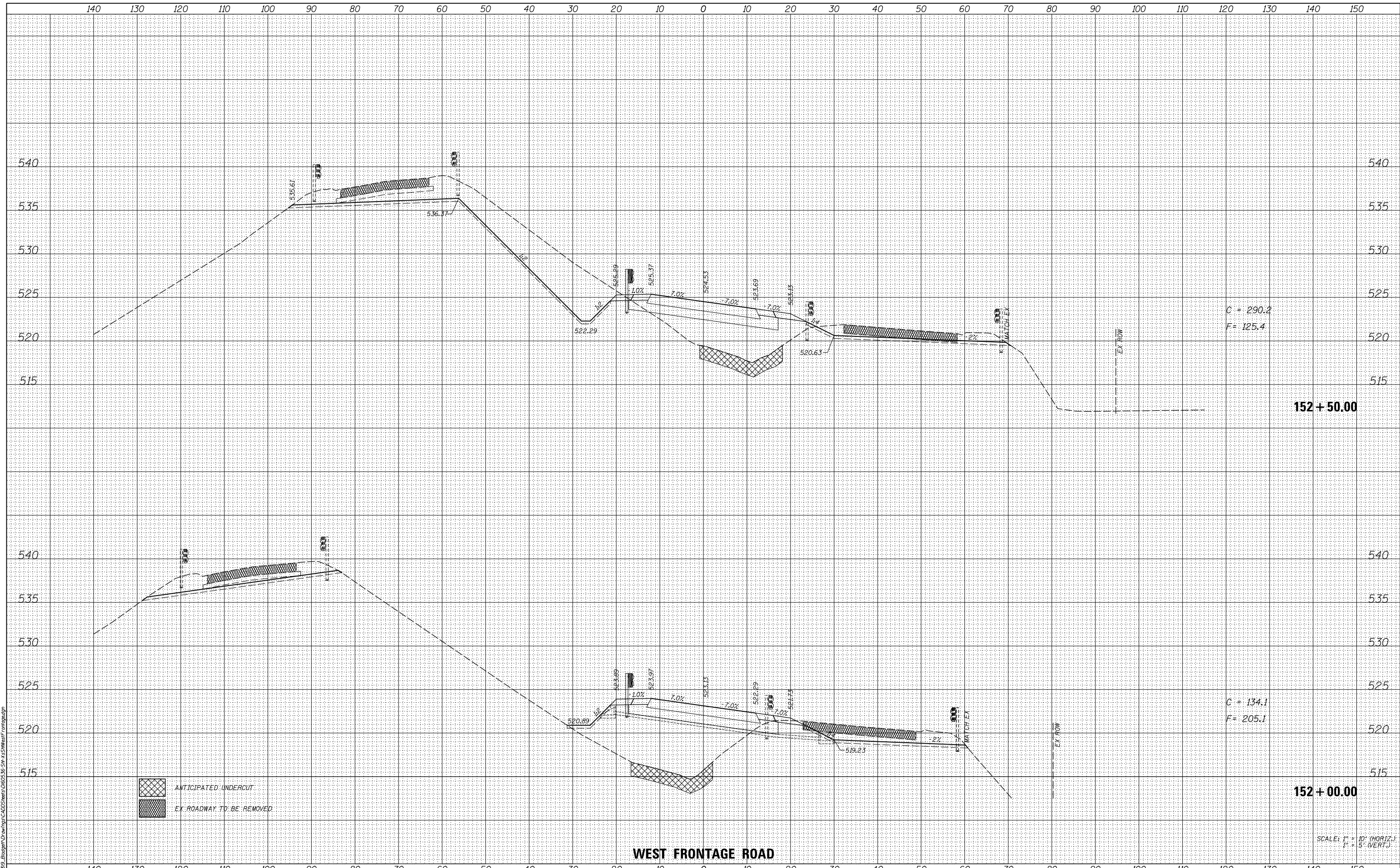
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
55	99-2HB-31-3	WILL	87
			SHEET NO. 72
SCALE: 1" = 10'			
SHEET 5 OF 10 SHEETS			
STA. 150+00.00 TO STA. 151+50.00			

CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT	



DATE	
BY	
NO.	
FINISH SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	AREAS CHECKED

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



MODEL NAME: AS SHEET LAYOUT  
 FILE NAME: F:\31312\_Bloggett\Drawings\CAD\Drawings\152\152 West Frontage.dwg

**BLOOM COMPANIES, LLC**  
 Infrastructure Innovation and Integrity  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 878-8500 Fax: (312) 878-8800

USER NAME	= tborges	DESIGNED	- MMO	REVISED	-
		DRAWN	- BL	REVISED	-
		CHECKED	- LSA	REVISED	-
		DATE	- 9/25/2013	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

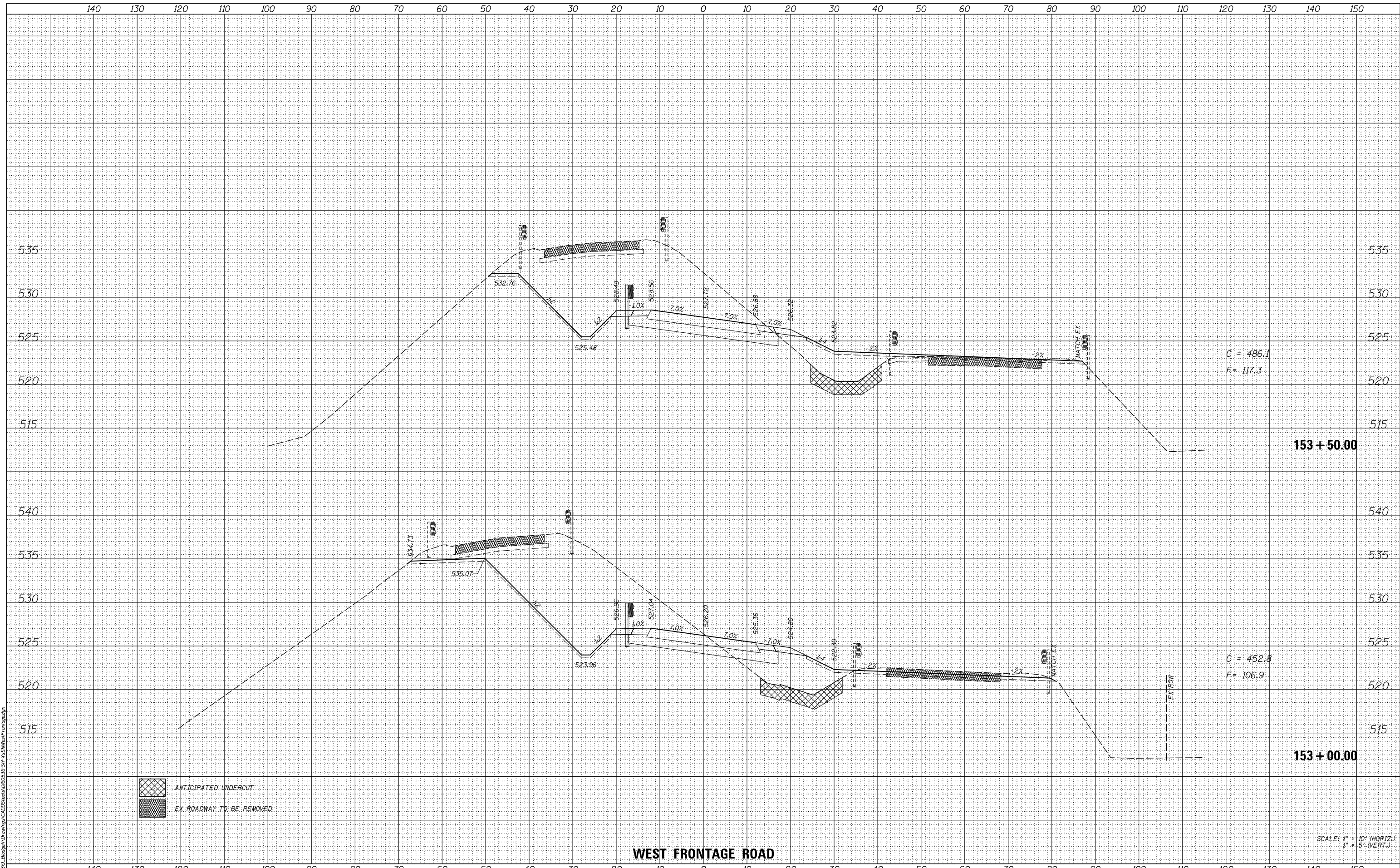
**CROSS SECTIONS**

SCALE: 1" = 10'  
 SHEET 5 OF 10 SHEETS STA. 152+00.00 TO STA. 152+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	73
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

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

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



**WEST FRONTAGE ROAD**

ANTICIPATED UNDERCUT  
 EX. ROADWAY TO BE REMOVED

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



USER NAME -	tborges	DESIGNED -	MMO	REVISED -	
		DRAWN -	BL	REVISED -	
		CHECKED -	LSA	REVISED -	
		DATE -	9/25/2013	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 10'	SHEET 5	OF 10	SHEETS	STA. 153+00.00	TO STA. 153+50.00
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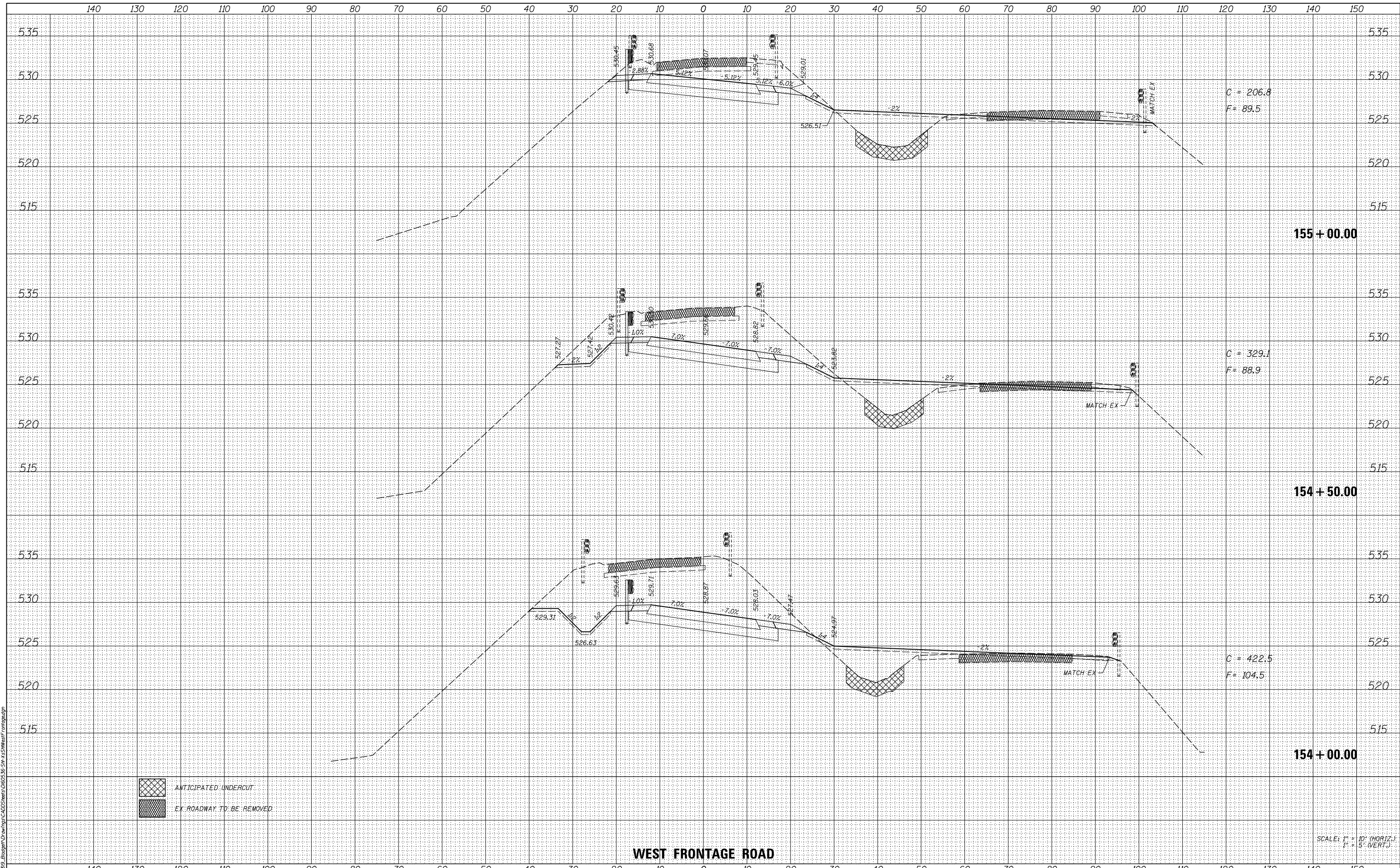
**CROSS SECTIONS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	74
CONTRACT NO. 60X60			ILLINOIS FED. AID PROJECT	

MODEL NAME - AS SHEET LAYOUT  
 FILE NAME - F:\3132\_Bldg\Drawings\CADD\Drawings\31-3\AS SHEET LAYOUT.dwg

DATE	
BY	
NO.	
FINISH SURVEY	
NO. BOOK	
NOTE	
PLATE	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
PLATE	
AREAS CHECKED	



**WEST FRONTAGE ROAD**

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



USER NAME = tborjes  
DESIGNED - MMO  
DRAWN - BL  
CHECKED - LSA  
PLOT DATE = 3/31/2014

REVISIED -  
REVISIED -  
REVISIED -  
REVISIED -

DATE - 9/25/2013

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

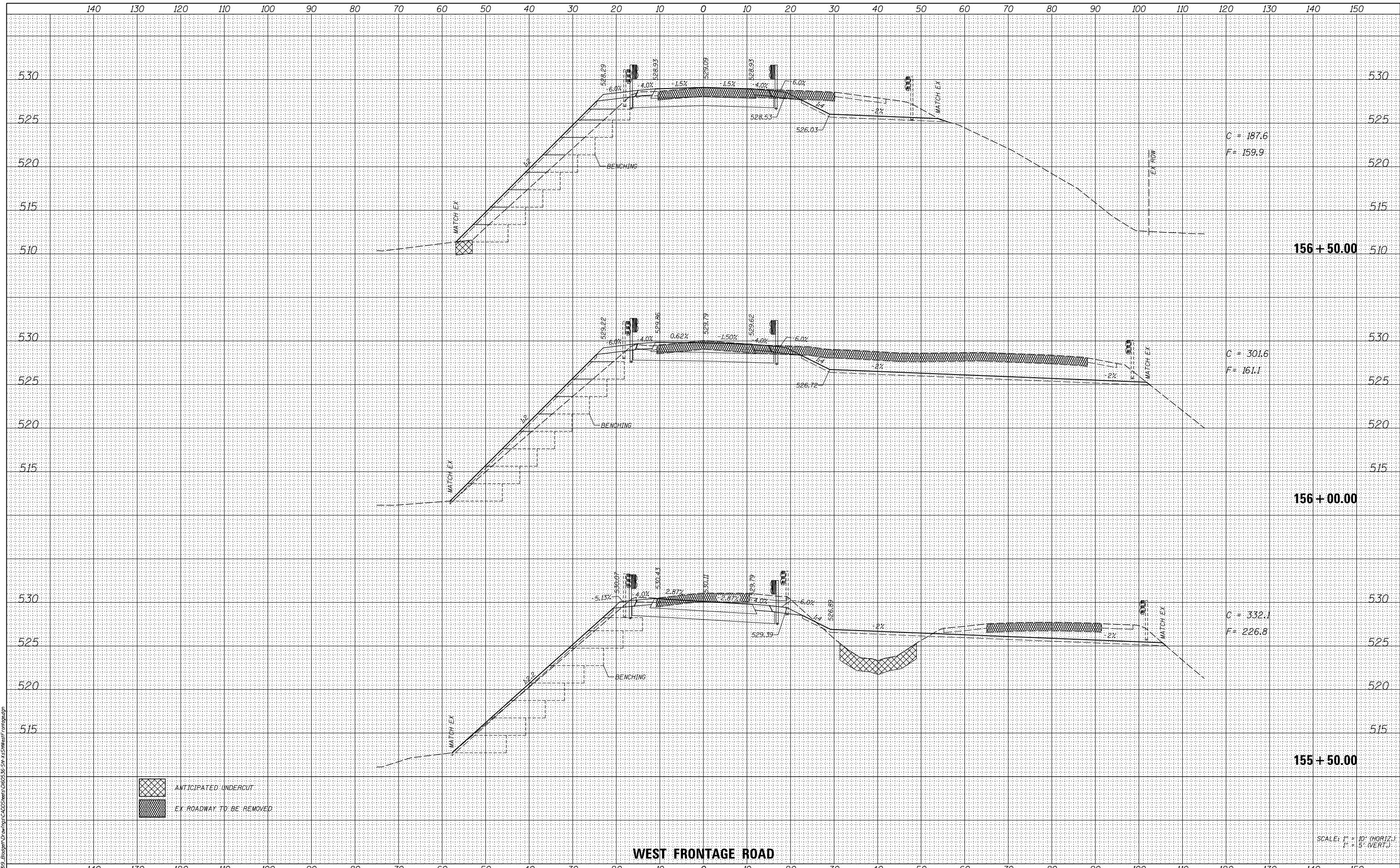
SCALE: 1" = 10' SHEET 5 OF 10 SHEETS STA. 154+00.00 TO STA. 155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	75
			CONTRACT NO. 60X60	
ILLINOIS FED. AID PROJECT				

MODEL NAME = AS SHEET LAYOUT  
FILE NAME = F:\31312\_Engineering\Drawings\CADD\Drawings\60X60\31-3\AS SHEET LAYOUT.dwg

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	



**WEST FRONTAGE ROAD**

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



USER NAME	- tborjes
DESIGNED	- MMO
DRAWN	- BL
CHECKED	- LSA
DATE	- 9/25/2013

REVISED	-
REVISED	-
REVISED	-
REVISED	-

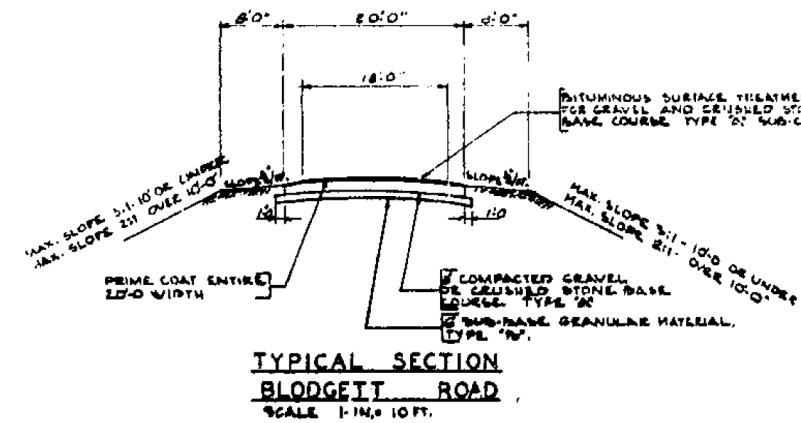
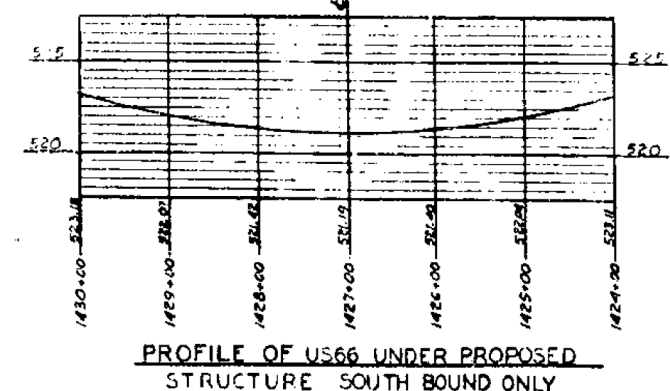
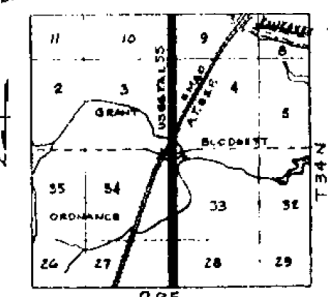
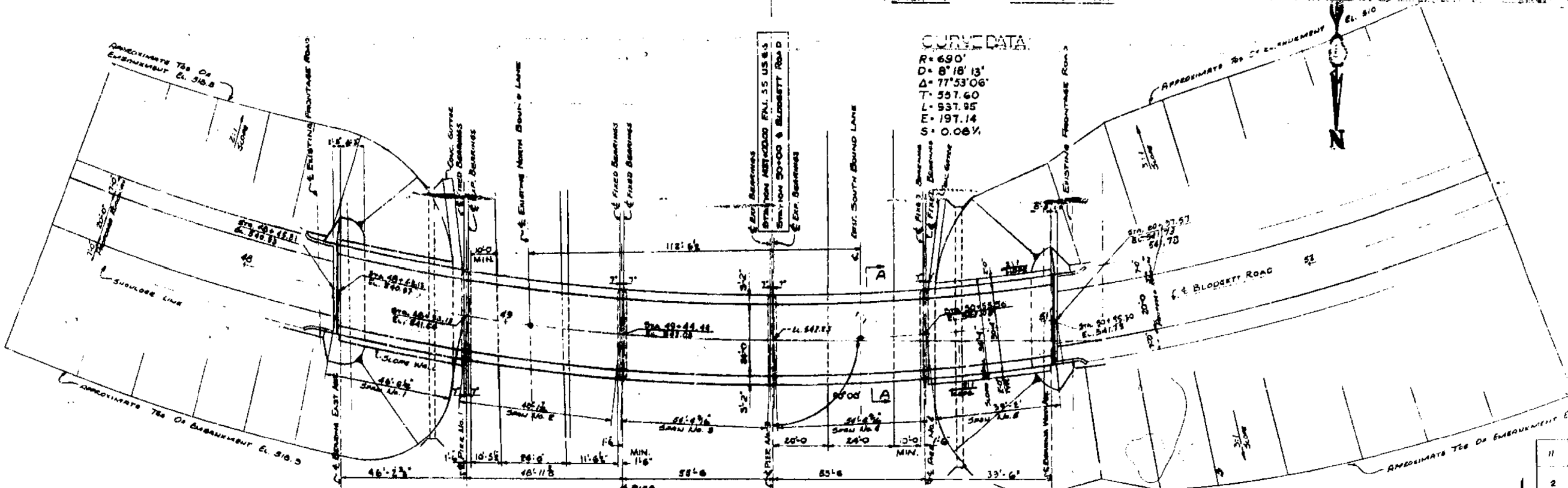
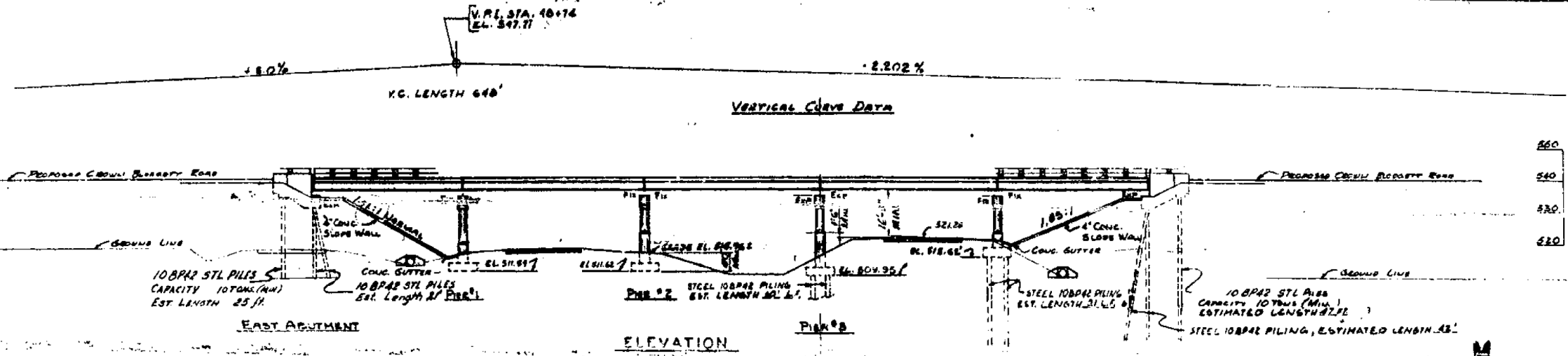
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1" = 10' SHEET 5 OF 10 SHEETS STA. 155+50.00 TO STA. 156+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	76
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

F.A.I. SHEET NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB	WILL	57	10
FEDERAL ROAD DISTRICT NO.		SECTION	SHEET	



EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

CONSOER, TOWNSEND & ASSOCIATES  
CONSULTING ENGINEERS CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS  
BLODGETT ROAD OVER FAI-5

US 66 SECTION J931B-3  
WILL COUNTY

PLAN & ELEVATION

DESIGNED	DRAWN	CHECKED	REVIEWED	DATE	REVISION
N.L.A.		F.E.D.	H.S.M.	5-27-59	

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	77

CONTRACT NO. 60X60

ILLINOIS FED. AID PROJECT

**BLOOM COMPANIES, LLC**  
Infrastructure Development and Design  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 676-8800 Fax: (312) 676-8800

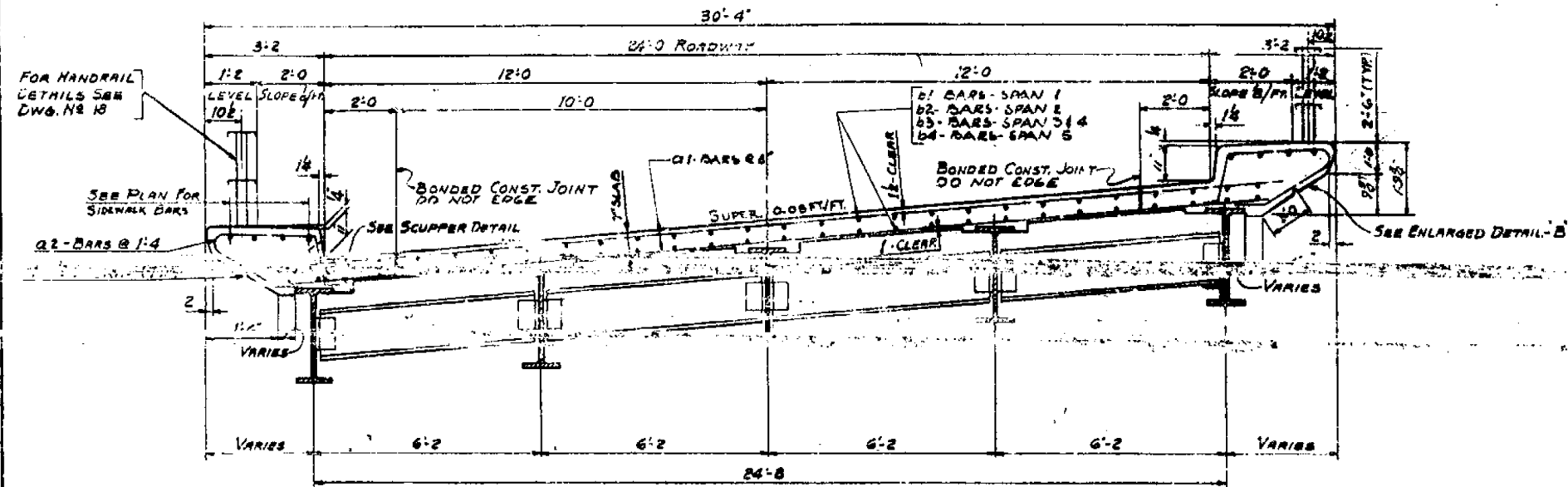
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PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLAN SHEETS		SCALE: N.T.S.	
SN 099-0182	SHEET OF SHEETS	STA.	TO STA.

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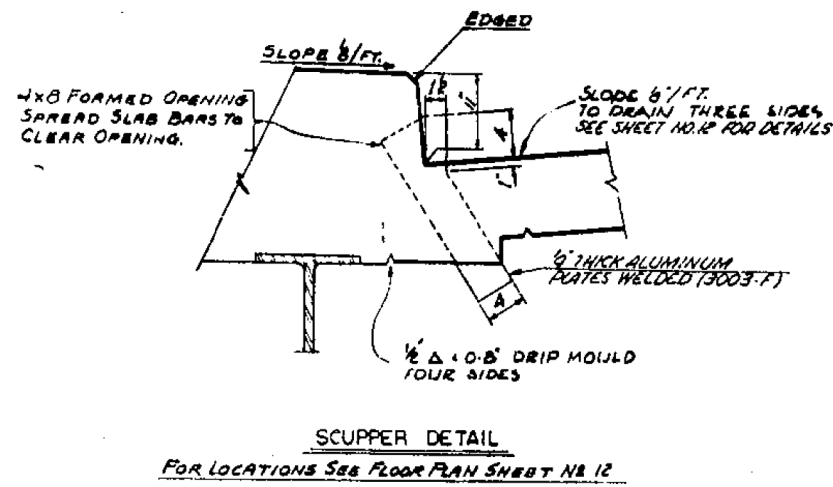
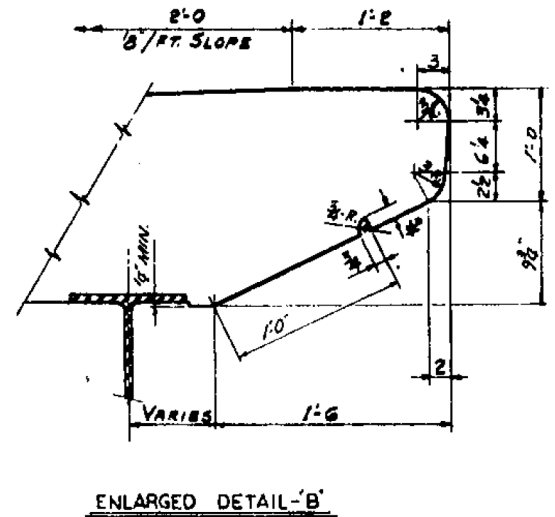
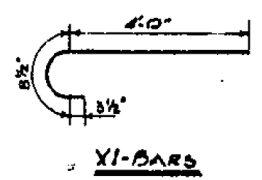
F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3	WILL	57	13
FEDERAL ROAD DISTRICT NO. 7				



**RADIAL CROSS SECTION**

BAR SCHEDULE					
BAR NO.	SIZE	LENGTH	SPACING	NAME	
a1	742	5	27'-4"	0'-8"	
a2	376	4	7'-9"	1'-4"	CL
b1	128	4	84'-6"	1'-0"	
b2	128	4	85'-1"	1'-0"	
b3	256	4	88'-3"	1'-0"	
b4	128	4	20'-0"	1'-0"	
c1	170	2	3'-0"	1'-0"	

SUPERSTRUCTURE QUANTITIES	
CLASS 'X' CONCRETE	2203-CU.YDS.
REINFORCEMENT (WELDED)	95380-LBS.



**SCUPPER DETAIL**  
FOR LOCATIONS SEE FLOOR PLAN SHEET NO. 12

**EXISTING STRUCTURAL PLAN SHEETS**  
**"FOR REFERENCE USE ONLY"**

<b>CONSOER. TOWNSEND &amp; ASSOCIATES</b>				<b>CHICAGO, ILLINOIS</b>	
<b>ILLINOIS DIVISION OF HIGHWAYS</b>					
BLODGETT ROAD OVER FAI-55					
(U.S. 66) SECTION 99-2HB-3					
WILL COUNTY					
SUPERSTRUCTURE DETAILS					
DESIGNED	DRAWN	CHECKED	REVISED	DATE	REVISION
<i>EAT</i>		<i>F.E.D.</i>	<i>H.S.M.</i>	5-22-59	

**BLOOM COMPANIES, LLC**  
Infrastructure Development and Integrity  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 876-8500 Fax: (312) 876-8500

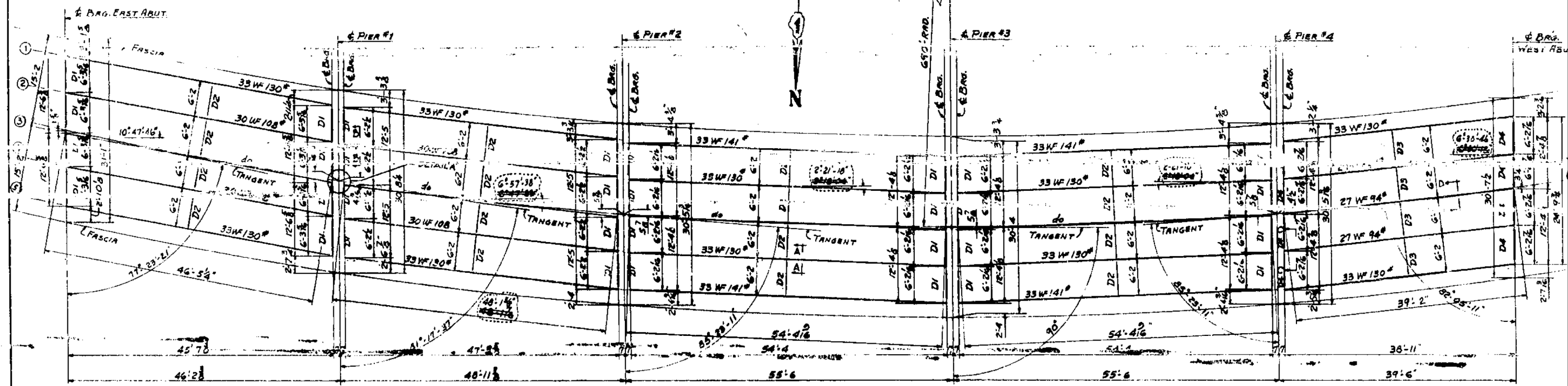
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PLOT SCALE =	2.0000 "/ in.	CHECKED -	NA	REVISED -	
PLOT DATE =	3/31/2014	DATE -	NA	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLAN SHEETS			
SN 099-0182			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

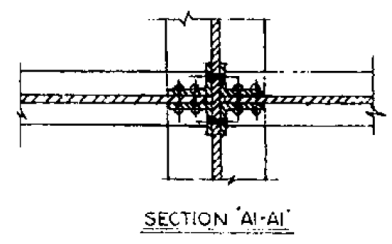
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	78
CONTRACT NO. 60X60				ILLINOIS FED. AID PROJECT

F.A.I. R.T.E. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB3	WILL	57	15
FEDERAL AID DISTRICT NO. 7				

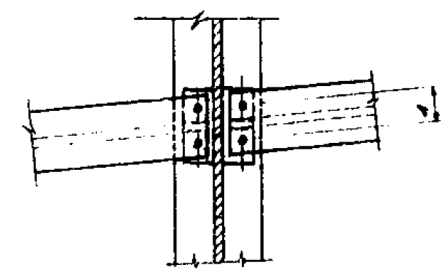


**FRAMING PLAN**

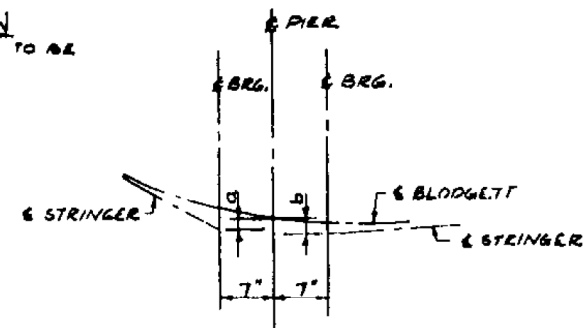
ALL INTERIOR DIAPHRAGMS TO BE PLACED AT MIDSPAN.



SECTION 'AI-AI'

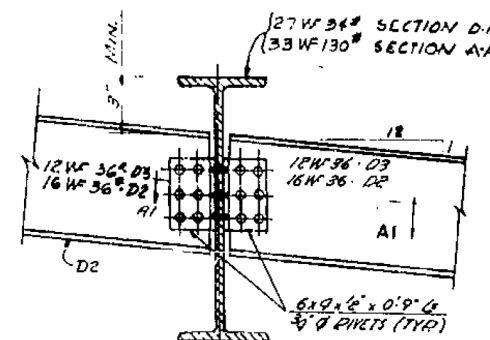


SECTION 'BI-BI'

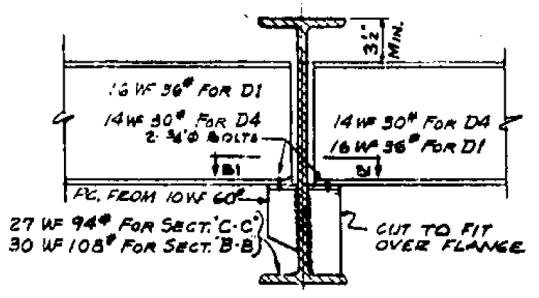


DETAIL A  
(TYP ALL PIERS)

DEAD LOAD DEFLECTION									
STRINGERS	SPAN #1	SPAN #2	SPAN #3	SPAN #4	SPAN #5	SPAN #6	SPAN #7	SPAN #8	SPAN #9
12 5	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
2 10 4	2	2	2	2	2	2	2	2	2

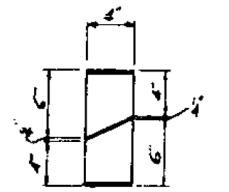


SECTION A-A  
SECTION D-D  
TYPICAL FOR INTERIOR DIAPHRAGMS



SECTION 'B-B'  
SECTION 'C-C'  
TYPICAL FOR DIAPHRAGMS AT PIERS AND ABUTS.

LOCATION	a	b
PIER #1	11 1/2	4 1/2
PIER #2	5 1/2	5 1/2
PIER #3	5 1/2	5 1/2
PIER #4	5 1/2	4 1/2



METHOD OF CUTTING 10 WF 60

**EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"**

STRUCTURAL STEEL 173,491 LBS.  
CONSOER, TOWNSEND & ASSOCIATES  
CONSULTING ENGINEERS CHICAGO, ILLINOIS  
ILLINOIS DIVISION OF HIGHWAY  
BLODGETT ROAD OVER FAI-55  
(US66) SECTION 99-2HB-3  
WILL COUNTY

DESIGNED	DRAWN	CHECKED	REVIEWED	DATE
D.M.R.	E.A.T.	E.E.D.	H.S.M.	5-22-59

**BLOOM COMPANIES, LLC**  
Infrastructure Development and Engineering  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 676-8500 Fax: (312) 676-8500

USER NAME = tborjes	DESIGNED - NA	REVISED -
PLOT SCALE = 2.0000" / 1'	DRAWN - NA	REVISED -
PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

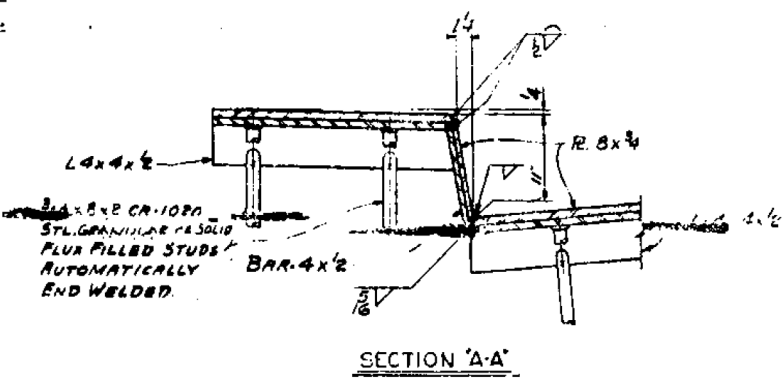
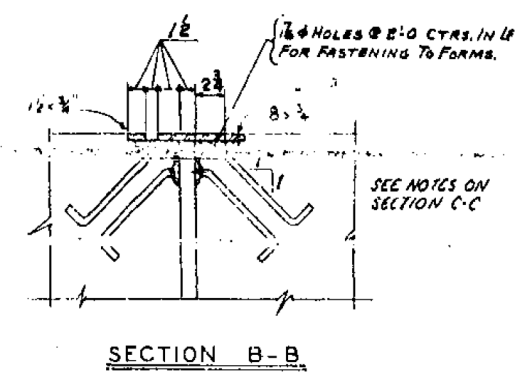
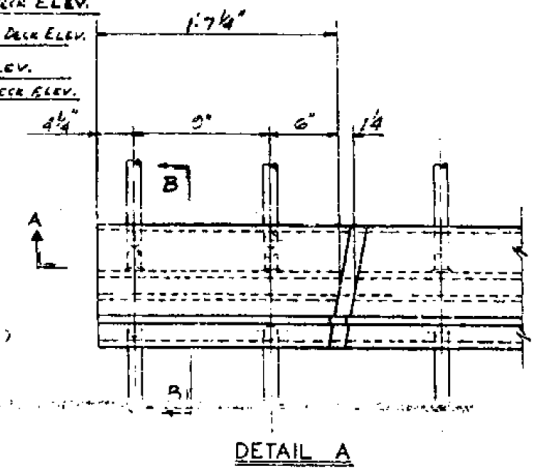
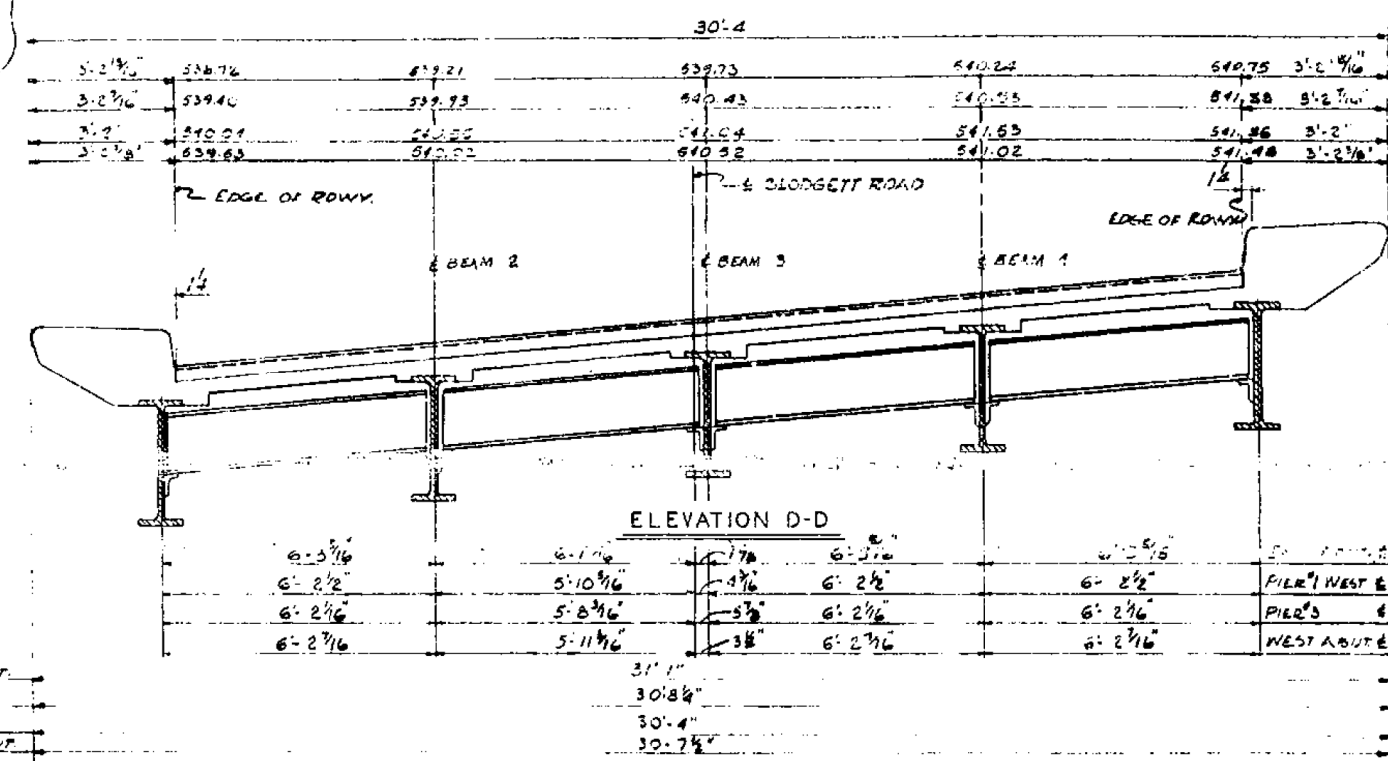
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLAN SHEETS  
SN 099-0182

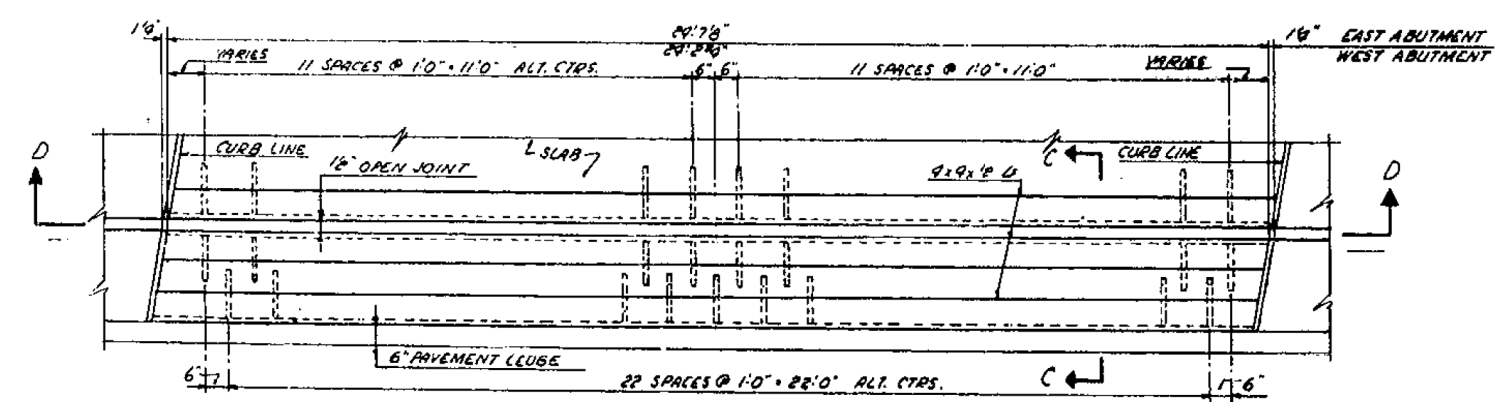
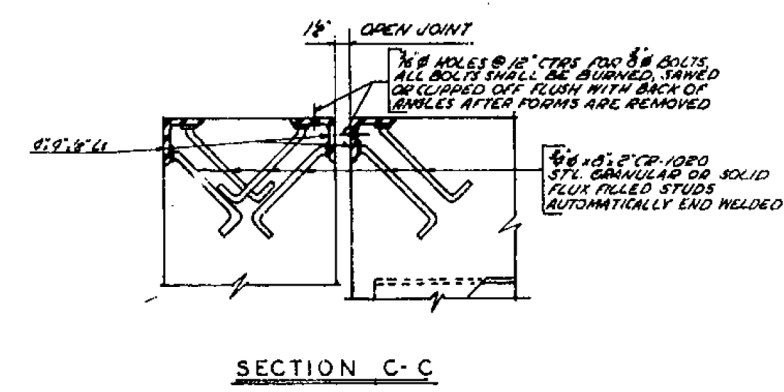
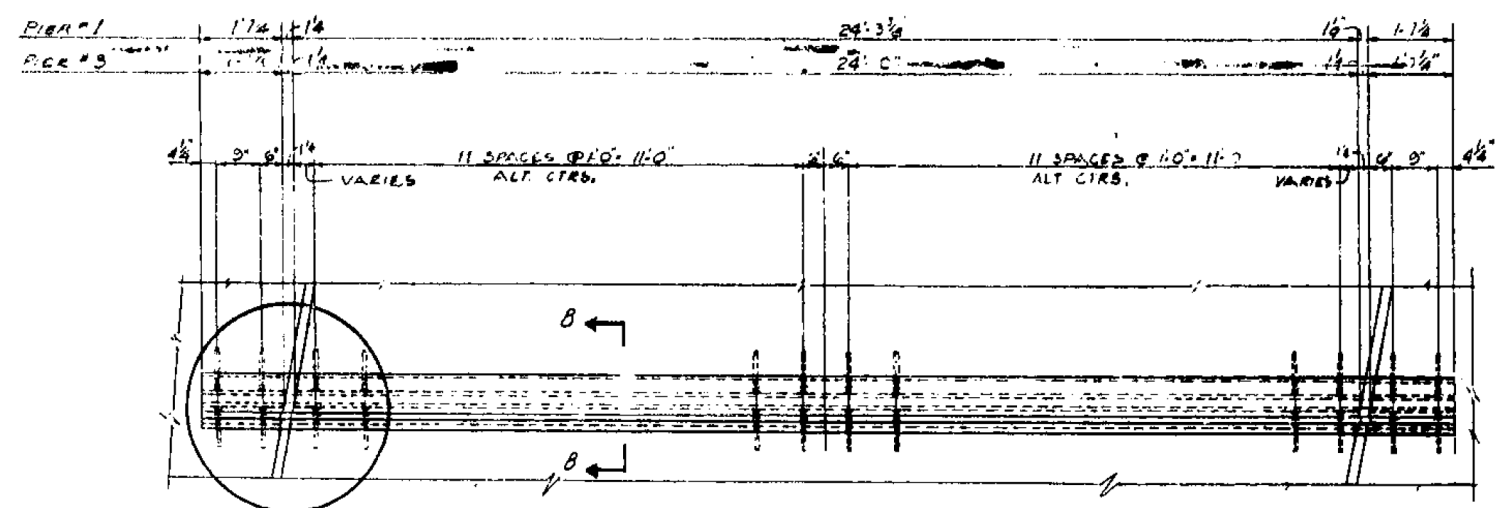
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	79
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

F.A.I. R.T.E. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3	WILL	57	17
FEDERAL ROAD DISTRICT NO. 7		REPORT	PROJ.	



**NOTES:**  
 ALL WELDS SHOWN ARE 5" UNLESS OTHERWISE NOTED.  
 SET CURB IS & T'S. FLUSH WITH PLANE OF CURB AND WELD TO ROADWAY IS BRIND EXPOSED WELDS SMOOTH.  
 EXPANSION GUARDS SHALL BE FABRICATED & ERRECTED IN ACCORDANCE WITH ARTICLE 51-13(d) OF THE STANDARD SPECIFICATIONS.  
 ANCHORS TO BE FIELD BENT TO CLEAR BEAMS WHERE REQUIRED.



**EXISTING STRUCTURAL PLAN SHEETS  
 "FOR REFERENCE USE ONLY"**

STRUCTURAL STEEL 5,135 LBS	
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILLINOIS	
ILLINOIS DIVISION OF HIGHWAYS BLODGETT ROAD OVER FAI-55 (U.S. 66) SECTION 99-2HB-3 WILL COUNTY	
STRUCTURAL STEEL EXP. JOINT DETAILS	
DESIGNED	DATE
D.M.P.	4.5.M. 5-22-59
DRAWN	DATE
E.A.A.	
CHECKED	DATE
REVISIONS	DATE
F.A.I. R.T.E. NO.	TOTAL SHEETS
55	87
SECTION	SHEET NO.
99-2HB-31-3	80
COUNTY	CONTRACT NO.
WILL	60X60
ILLINOIS FED. AID PROJECT	

**BLOOM COMPANIES, LLC**  
 Infrastructure Development and Integrity  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 676-8500 Fax: (312) 876-8600

USER NAME = tborjes	DESIGNED - NA	REVISED -
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PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

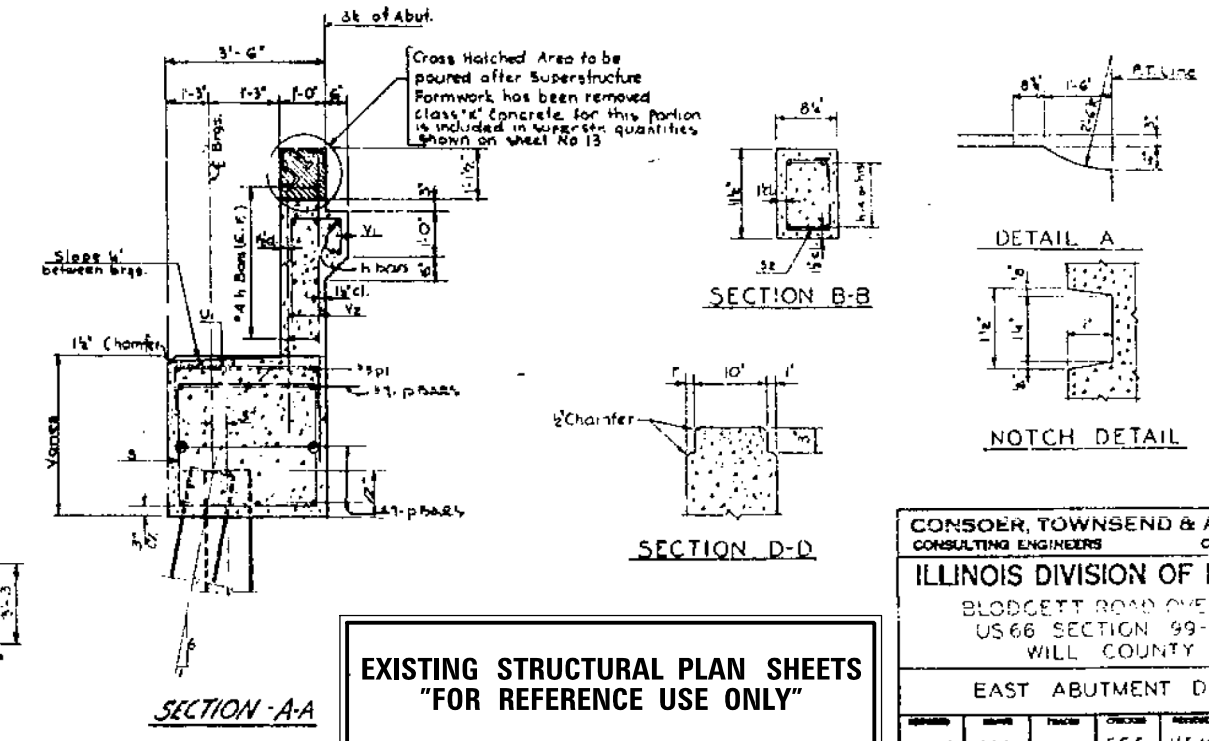
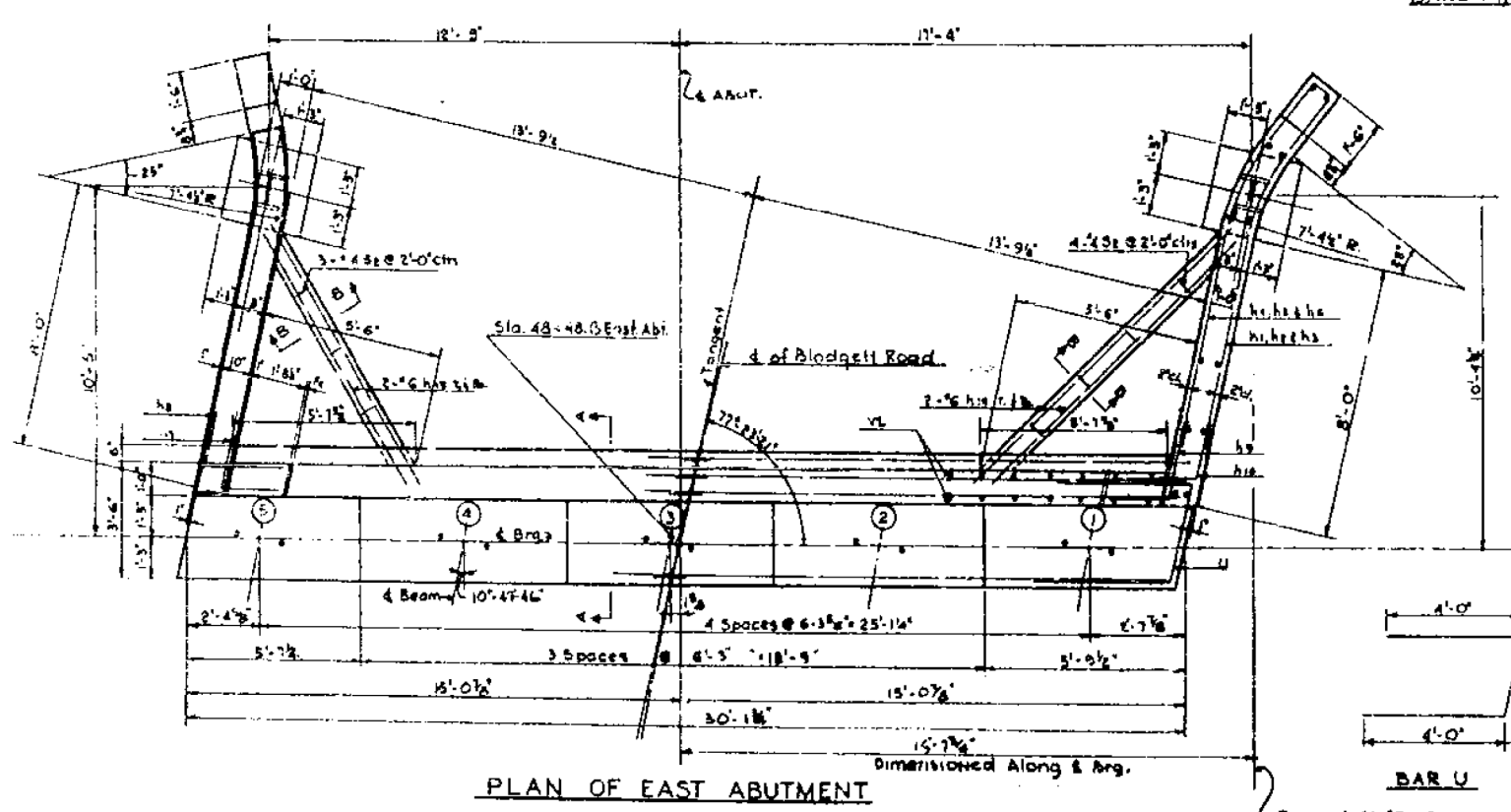
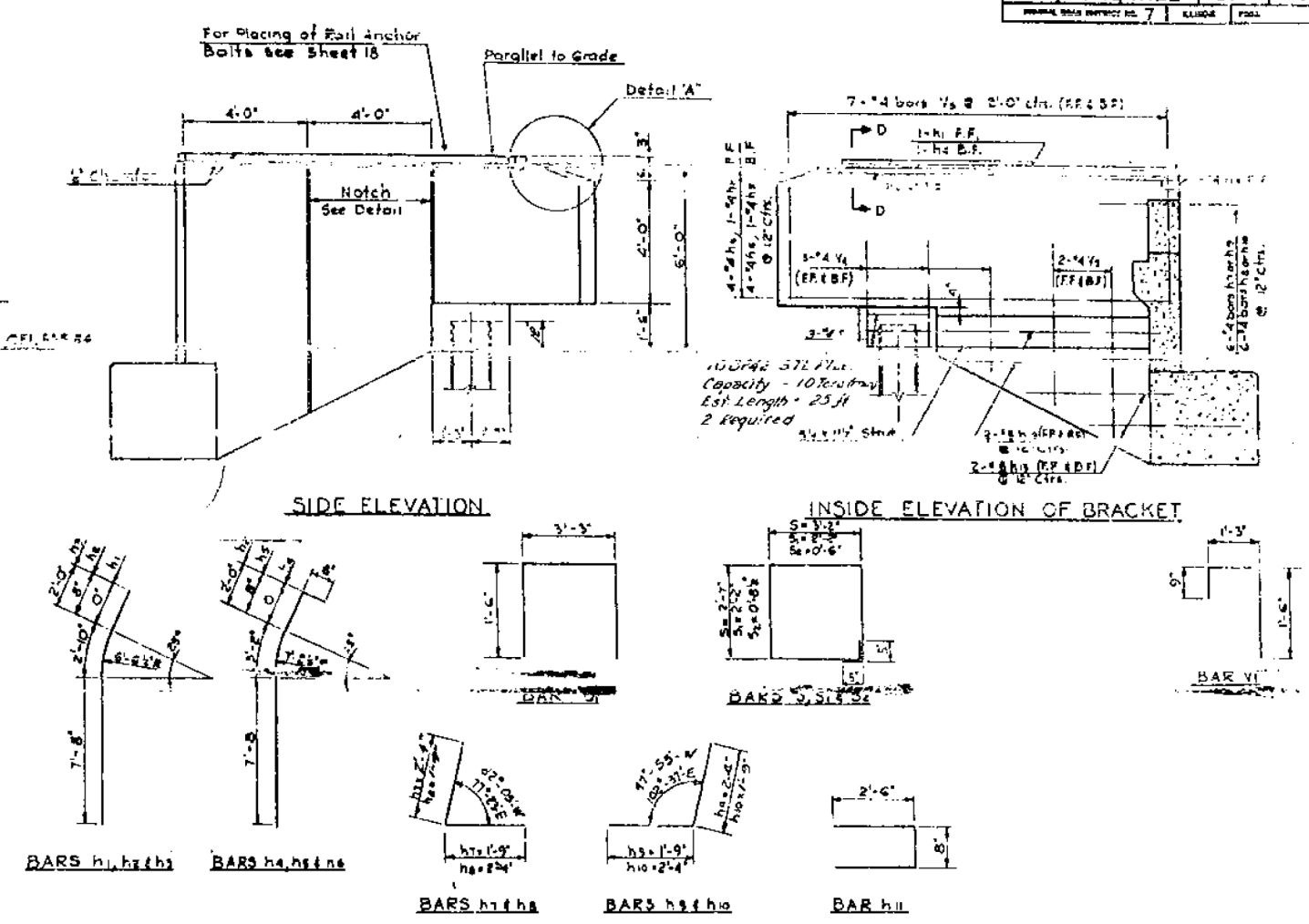
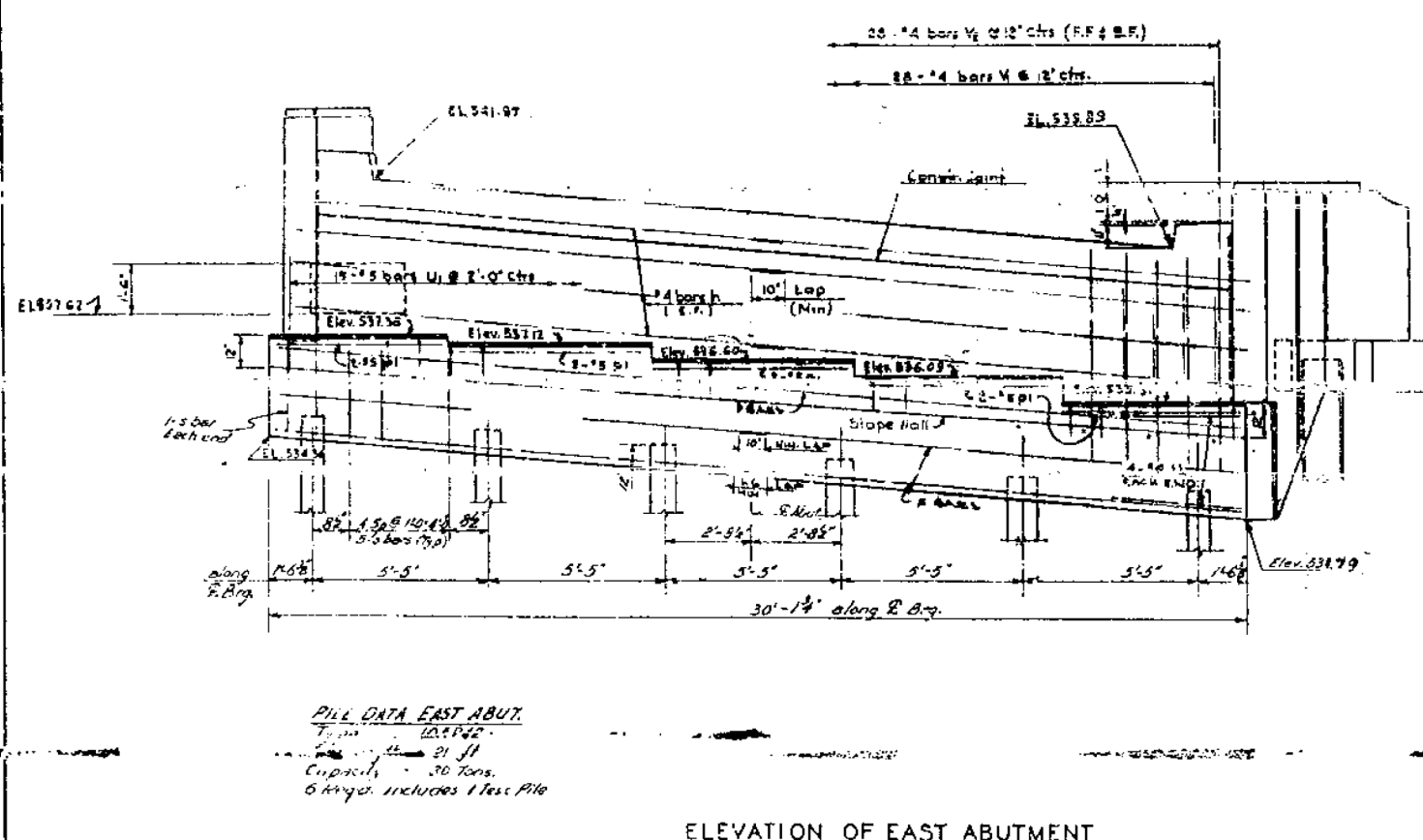
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLAN SHEETS	
SN 099-0182	
SCALE: N.T.S.	SHEET OF SHEETS STA. TO STA.

FILE NAME = FAI-1319\_Blodgett\Drawings\CADD\Sheets\116826-11-E-Plan.dgn



F.A.I. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3	WILL	87	19
ILLINOIS DIVISION OF HIGHWAYS				



**EXISTING STRUCTURAL PLAN SHEETS  
 "FOR REFERENCE USE ONLY"**

CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILLINOIS				
ILLINOIS DIVISION OF HIGHWAYS				
BLODGETT ROAD OVER FALLS US 66 SECTION 99-2HB-3 WILL COUNTY				
EAST ABUTMENT DETAILS				
D.M.P.	M.L.	F.E.D.	H.S.M.	522-59

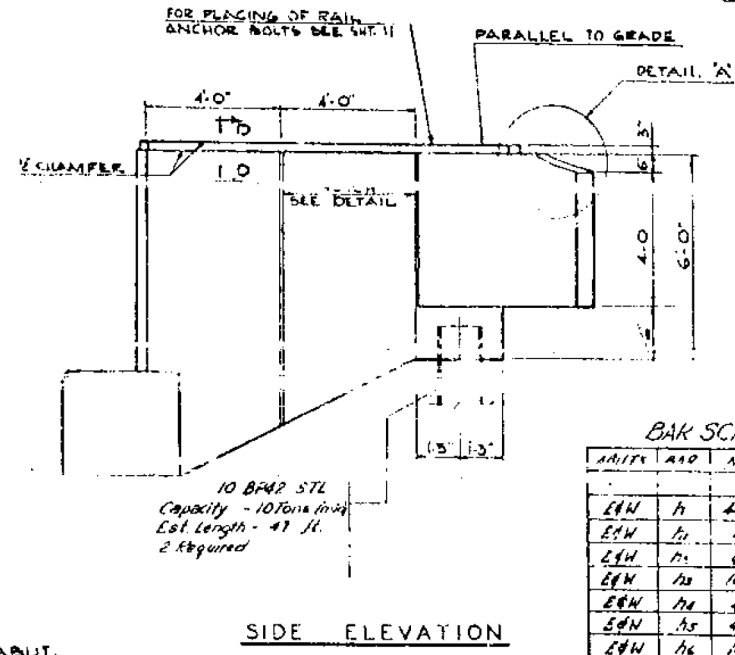
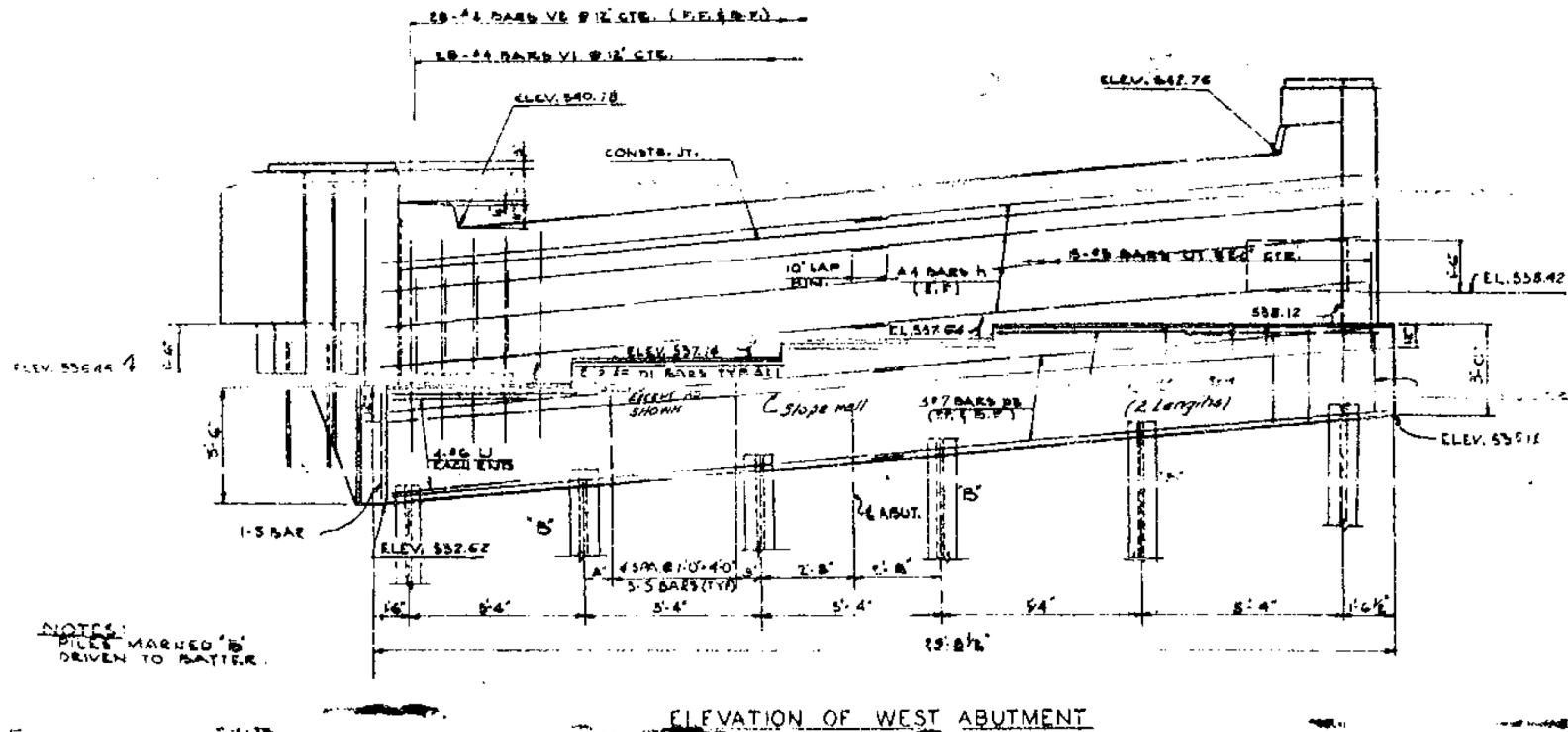
**BLOOM COMPANIES, LLC**  
 Infrastructure Development and Integrity  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 676-8800 Fax: (312) 676-8800

USER NAME = tborjes	DESIGNED - NA	REVISED -
	DRAWN - NA	REVISED -
PLOT SCALE = 2.0000 "/in.	CHECKED - NA	REVISED -
PLOT DATE = 3/31/2014	DATE - NA	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLAN SHEETS			
SN 099-0182			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.I. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	81
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

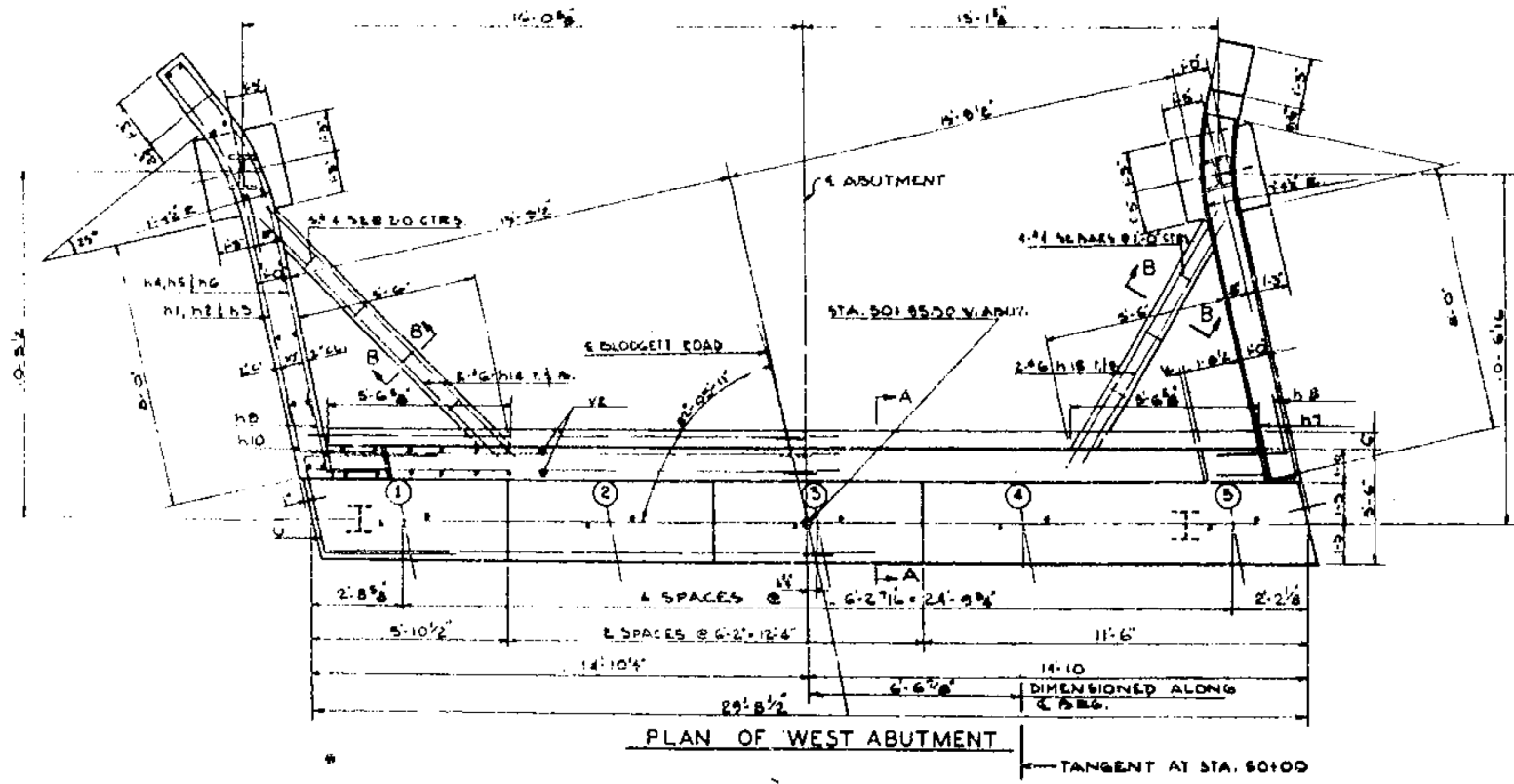


**PILE DATA WEST ABUT.**  
 CAPACITY 30 TONS  
 EST. LENGTH 42'  
 \*D INCLUDES ONE  
 TEST PILE.

**BAR SCHEDULE FOR TWO (2) ABUTS.**

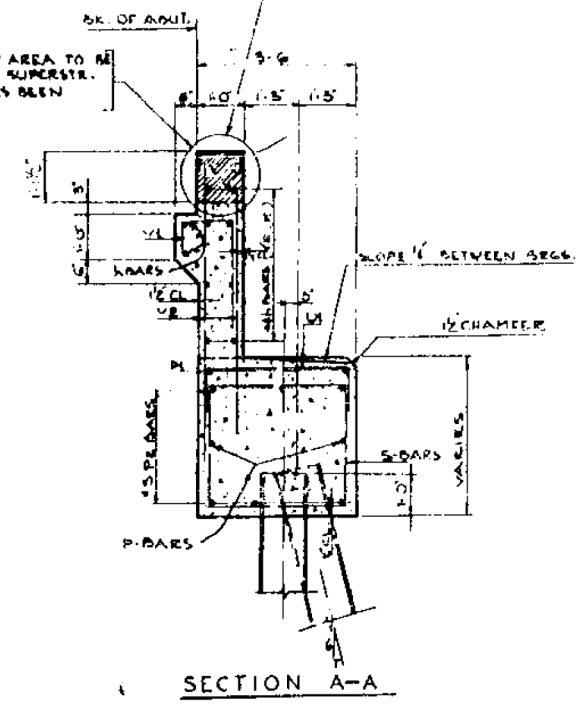
ABUT.	BAR	No.	SIZE	LENGTH	SPACING	SHAPE
EW	h	40	4	15'-0"	As Shown	---
EW	h	4	5	10'-6"	As Shown	---
EW	h	4	5	11'-2"	As Shown	---
EW	h	16	5	12'-6"	As Shown	---
EW	h	4	5	11'-6"	As Shown	---
EW	h	4	5	12'-2"	As Shown	---
EW	h	16	5	13'-6"	As Shown	---
EW	h	12	4	4'-2"	As Shown	---
EW	h	12	4	4'-1"	As Shown	---
EW	h	12	4	4'-1"	As Shown	---
EW	h	4	4	8'-8"	As Shown	---
EW	h	16	5	7'-0"	As Shown	---
EW	h	16	5	8'-0"	As Shown	---
EW	h	8	6	10'-6"	As Shown	---
EW	h	8	6	8'-6"	As Shown	---
EW	p	32	7	16'-6"	As Shown	---
EW	p	20	3	6'-0"	As Shown	---
EW	s	56	4	12'-6"	As Shown	---
EW	s	12	4	9'-6"	As Shown	---
EW	s	14	3	3'-3"	As Shown	---
EW	u	6	6	11'-8"	As Shown	---
EW	u	30	5	6'-3"	As Shown	---
EW	v	56	4	2'-6"	As Shown	---
EW	v	56	4	6'-0"	As Shown	---
EW	v	56	4	4'-3"	As Shown	---
EW	v	24	4	3'-0"	As Shown	---
EW	v	16	4	5'-9"	As Shown	---

**EXISTING STRUCTURAL PLAN SHEETS  
 "FOR REFERENCE USE ONLY"**



Class X Concrete for this portion is included in superstructure quantities shown on sheet No. 13

CROSS HATCHED AREA TO BE POURED AFTER SUPERSTR. FORMWORK HAS BEEN REMOVED.



**QUANTITIES TWO (2) ABUTMENTS**

Driving Steel Piles (100#) 1/2	Lin. Ft.	189
Class X Concrete	Cu. Yds.	413
Reinforcement bars	Lbs.	4,435
Furnishing Steel Piles (100#) 1/2	Lin. Ft.	159
Test Piles	EA.	2

WORK THIS SHEET WITH SHEET 19  
**CONSOER, TOWNSEND & ASSOCIATES**  
 CONSULTING ENGINEERS CHICAGO, ILLINOIS  
**ILLINOIS DIVISION OF HIGHWAYS**  
 BLODGETT ROAD OVER FAI-5  
 US66 SECTION 99-2HB-3  
 WILL COUNTY

**WEST ABUTMENT DETAILS**

DESIGNER	DRAWN	CHECKED	APPROVED	DATE	REVISION
D.M.P.	D.M.P.	F.E.D.	H.S.M.	5-22-59	

USER NAME = tborjes	DESIGNED - NA	REVISED -
PLOT SCALE = 2.0000" / 1'	DRAWN - NA	REVISED -
PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB	WILL	57	22
FEDERAL ROAD DISTRICT NO. 7				

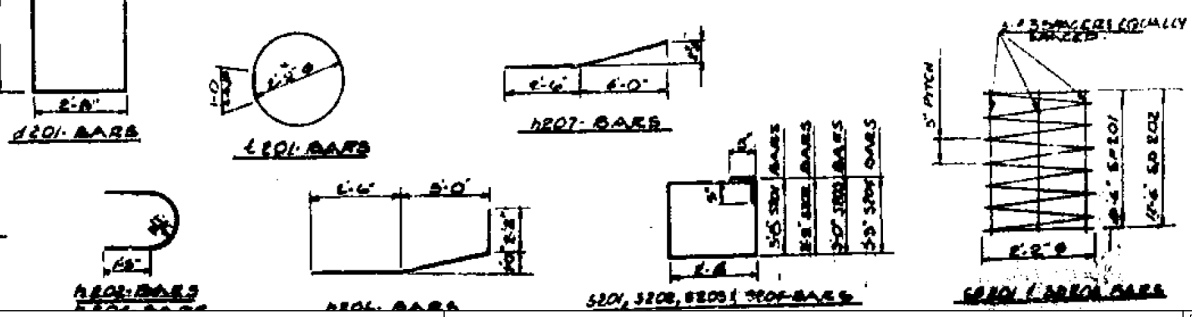
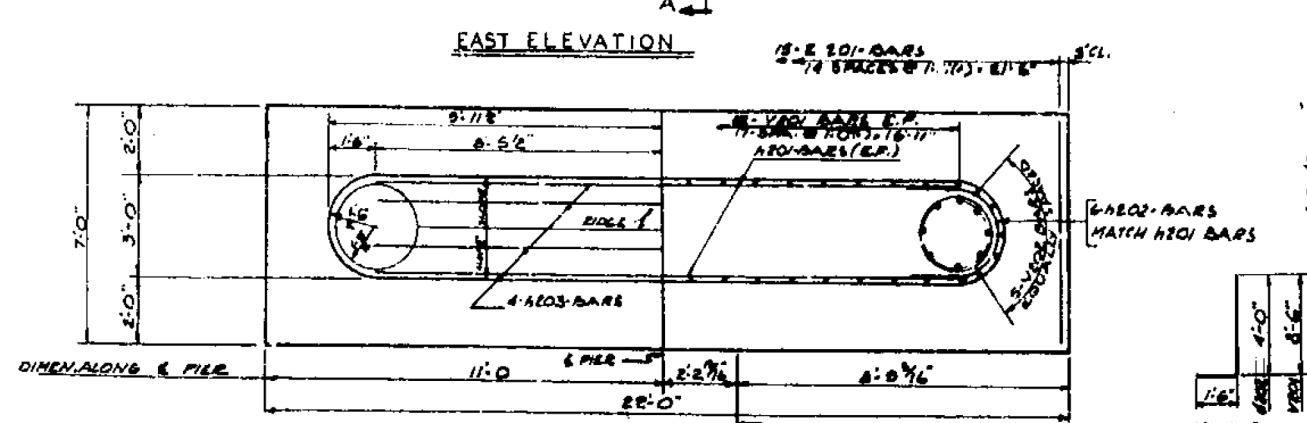
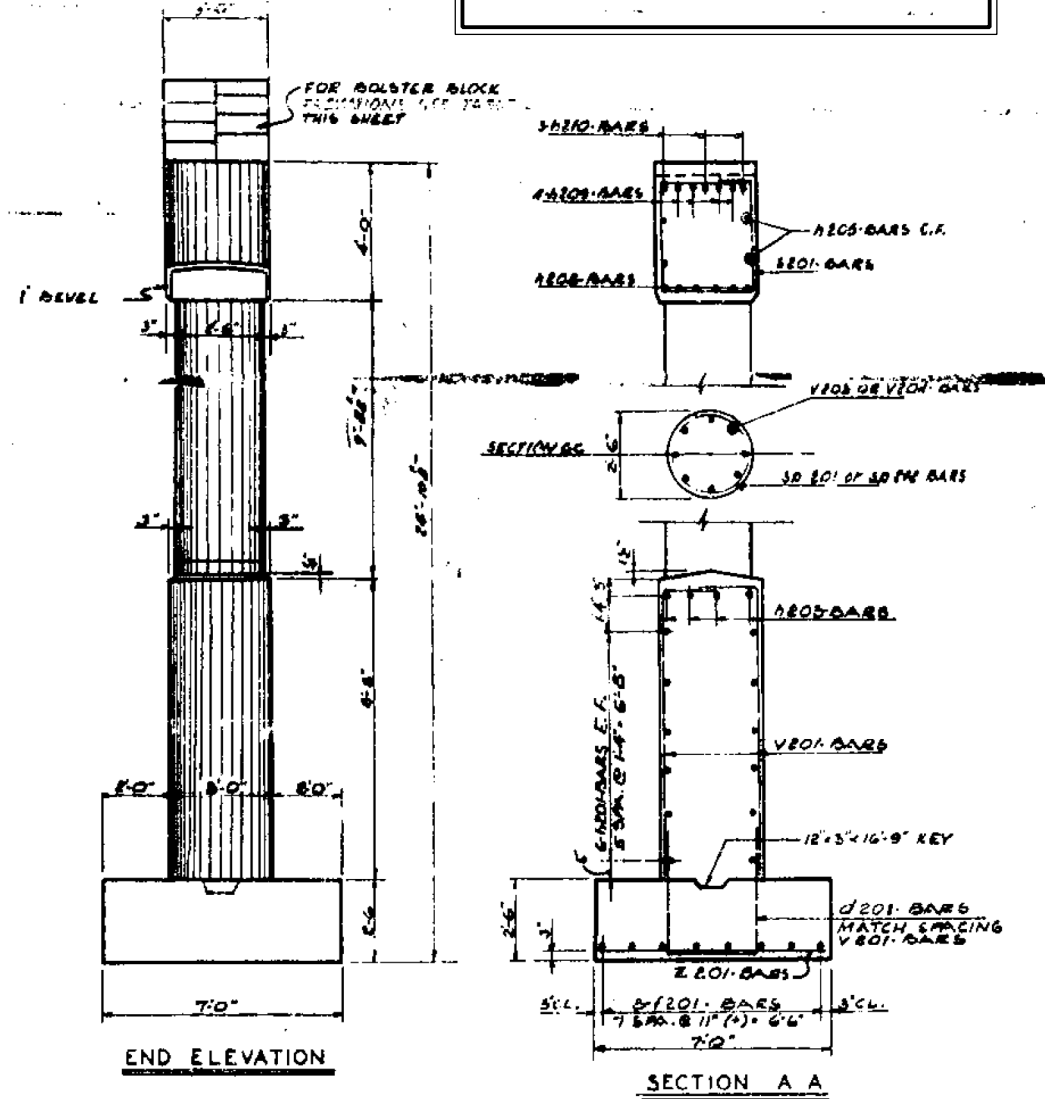
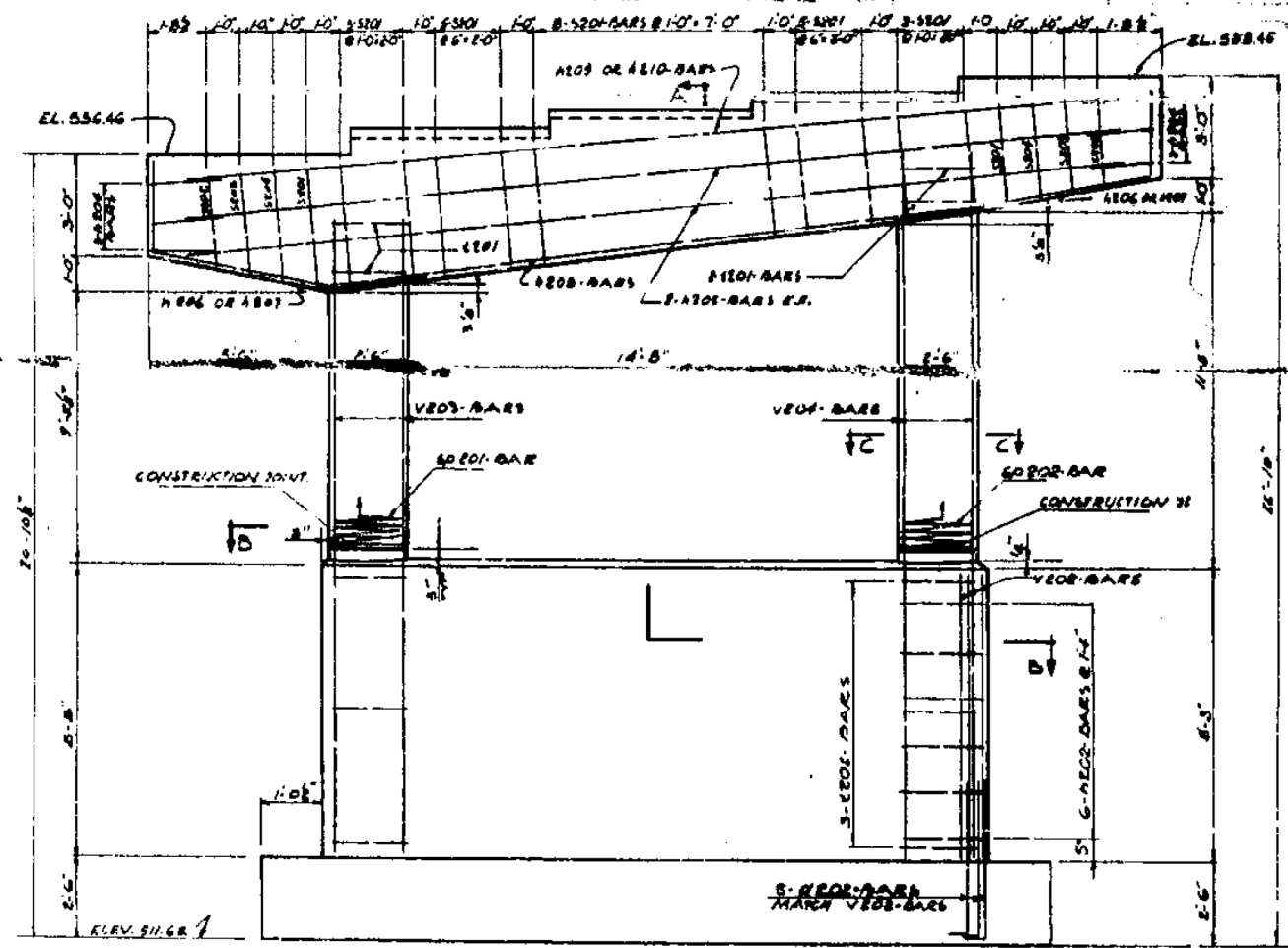
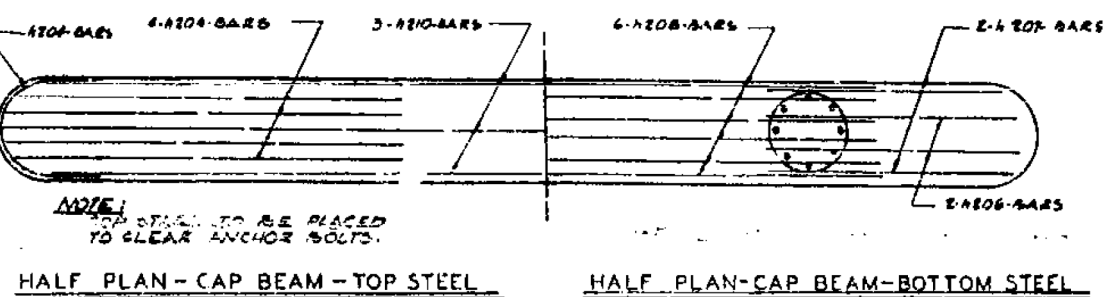
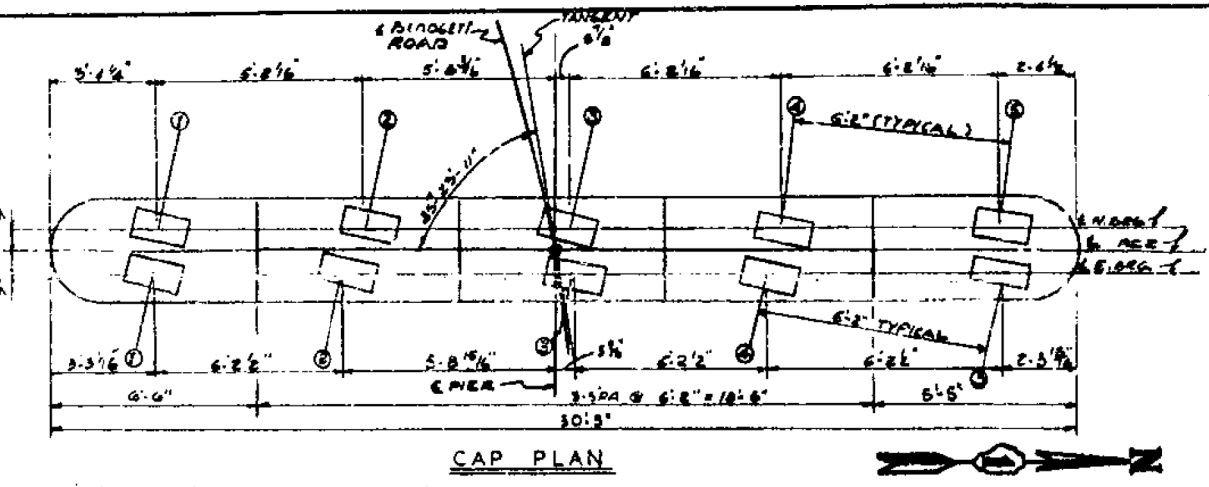
PIER CAP ELEVATIONS				
E. SIDE	55.44	57.73	58.43	58.45
W. SIDE	56.48	56.81	57.73	58.45

**EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"**

BAR SCHEDULE					
BAR NO	SIZE	LENGTH	SPACING	SHAPE	
H201	8	6	21'-6"	11"	U
H202	15	5	6'-6"	1'-6"	U
H203	10	4	10'-0"	1'-0"	U
H204	12	5	16'-11"	1'-6"	U
H205	12	4	6'-5"	1'-4"	U
H206	4	8	16'-11"	10"	U
H207	6	5	6'-5"	AS SHOWN	U
H208	4	5	27'-5"	AS SHOWN	U
H209	4	6	10'-8"	AS SHOWN	U
H210	4	6	6'-7"	AS SHOWN	U
H211	6	7	20'-5"	AS SHOWN	U
H212	8	10	11'-6"	AS SHOWN	U
H213	3	10	21'-8"	AS SHOWN	U
V201	56	8	10'-0"	1'-0"	U
V202	10	8	8'-5"	AS SHOWN	U
V203	8	9	21'-8"	AS SHOWN	U
V204	8	9	18'-2"	AS SHOWN	U
S201	18	5	10'-8"	1'-0"	U
S202	10	5	5'-6"	AS SHOWN	U
S203	1	4	-	-	U
S204	1	4	-	-	U
S205	26	4	15'-6"	AS SHOWN	U
S206	2	4	11'-8"	AS SHOWN	U
S207	2	4	12'-2"	AS SHOWN	U
S208	2	4	12'-8"	AS SHOWN	U

**QUANTITIES**  
CLASS 'X' CONCRETE 176 CU YDS  
REINFORCEMENT BARS 4693 LBS.  
CL 'A' EXCAV FOR STRUCT. 85 CU YDS  
ROCK EXCAV. FOR STRUCT. 10 CU YDS

**NOTE:**  
ANCHOR SPIRAL TOP & BOTTOM WITH ONE TURN + 10".  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
ALL BOLSTER BLOCK STEPS SHALL BE TOoled.



**CONSOER, TOWNSEND & ASSOCIATES**  
CONSULTING ENGINEERS CHICAGO, ILLINOIS  
**ILLINOIS DIVISION OF HIGHWAYS**  
BLODGETT ROAD OVER FAI 55  
(US.66) SECTION 99-2HB3  
WILL COUNTY  
**PIER #2 DETAILS**

DESIGNED	DRAWN	CHECKED	DATE
D.M.P.	D.M.R.	FE.D.	H.S.M. 5-22-59

**BLOOM COMPANIES, LLC**  
Infrastructure Development and Design  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
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USER NAME = tborjes	DESIGNED - NA	REVISD -
PLOT SCALE = 2.0000 "/math>in.	DRAWN - NA	REVISD -
PLOT DATE = 3/31/2014	CHECKED - NA	REVISD -
	DATE - NA	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURAL PLAN SHEETS**  
SN 099-0182  
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	83
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB3	WILL	57	23

PIER CAP ELEVATIONS					
E. SIDE	294.5	297.15	297.64	298.15	298.62
W. SIDE	296.45	299.15	299.64	300.15	300.62

BAR SCHEDULE					
BAR NO	SIZE	LENGTH	SPACING	SHAPE	
H301	8	6	25'-4"	U	
H302	18	5	6'-6"	U	
H303	16	4	7'-10"	U	
H304	16	5	16'-10"	U	
H305	16	4	6'-8"	U	
H306	7	7	16'-10"	AS SHOWN	
H307	6	5	6'-5"	AS SHOWN	
H308	4	5	8'-4"	AS SHOWN	
H309	4	6	10'-5"	AS SHOWN	
H310	4	6	6'-7"	AS SHOWN	
H311	6	7	20'-0"	AS SHOWN	
H312	8	10	11'-6"	AS SHOWN	
H313	8	2	28'-11"	AS SHOWN	
V301	5/8	3	11'-9"	U	
V302	10	3	10'-3"	AS SHOWN	
V303	8	5	22'-11"	AS SHOWN	
V304	8	2	28'-11"	AS SHOWN	
D301	18	5	8'-8"	U	
D302	10	5	4'-6"	AS SHOWN	
B301	1	4		WWW	
S301	1	4		WWW	
S302	2/6	4	15'-6"	AS SHOWN	
S303	2	4	11'-8"	AS SHOWN	
S304	2	4	12'-2"	AS SHOWN	
S305	2	4	12'-8"	AS SHOWN	

**QUANTITIES**

CLASS 'X' CONCRETE 15% BELLYS  
 REINFORCEMENT BARS 150# & 18#  
 CLASS 'A' EXCAV. FOR STRUC. BT. CU. YDS  
 DRIVING STEEL PILES 90' LINFT.  
 FURNISHING STEEL PILES 90' LINFT.  
 TEST PILE 1 EACH

**NOTES:**

ANCHOR SPIRAL TOP & BOTTOM WITH ONE TURN 1/4"

ALL BAR DIMENSIONS ARE OUT TO OUT.

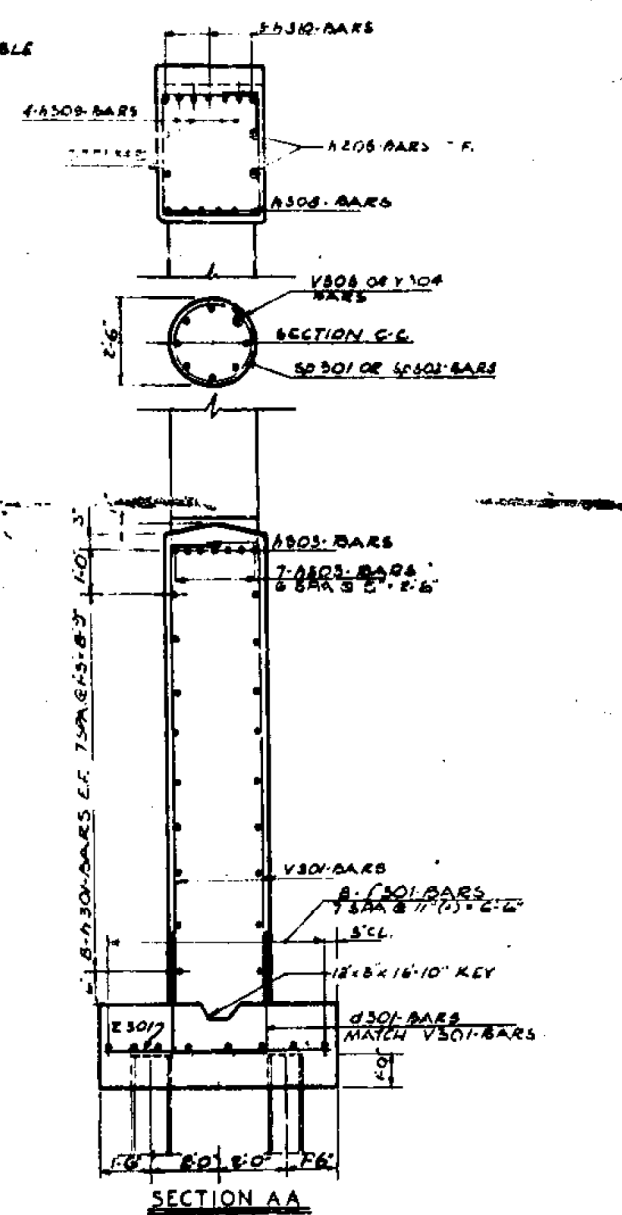
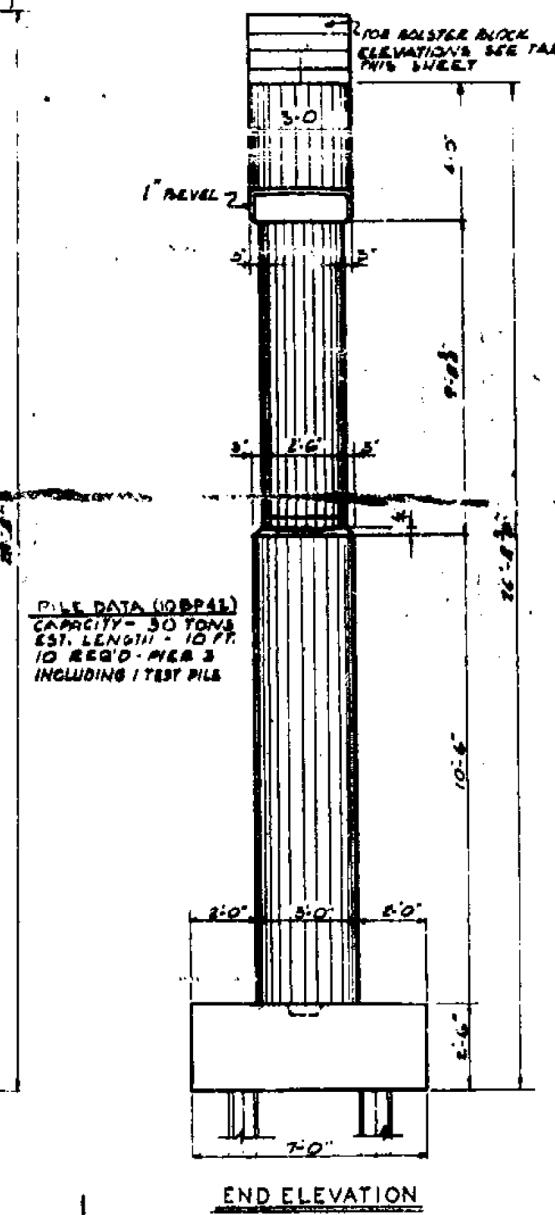
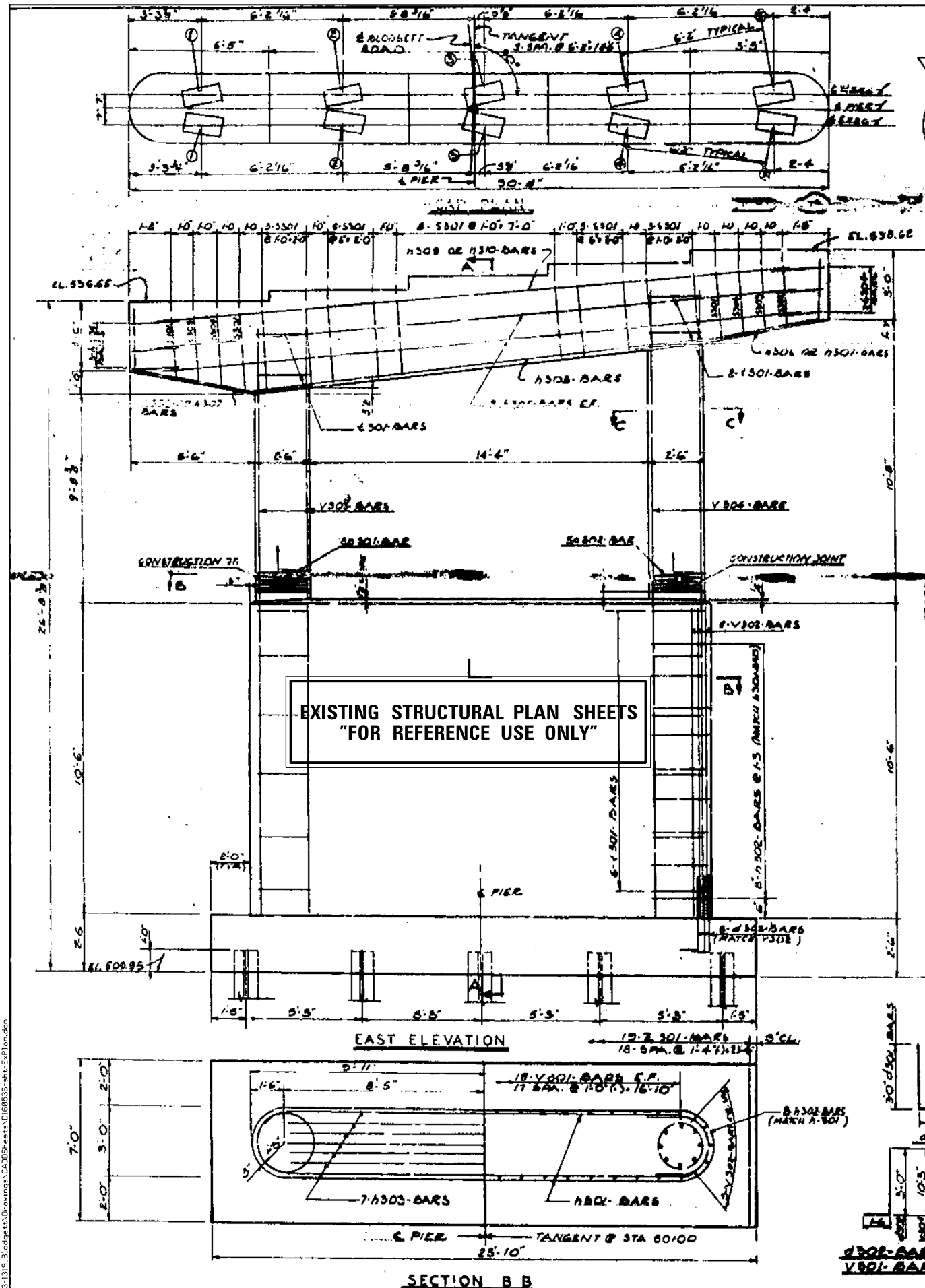
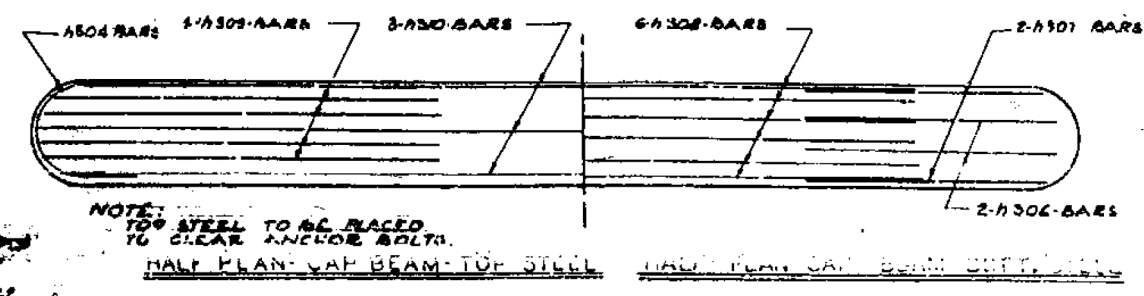
ALL BOLSTER BLOCK STEPS SHALL BE TOOLED

**CONSOER, TOWNSEND & ASSOCIATES**  
 CONSULTING ENGINEERS CHICAGO, ILLINOIS

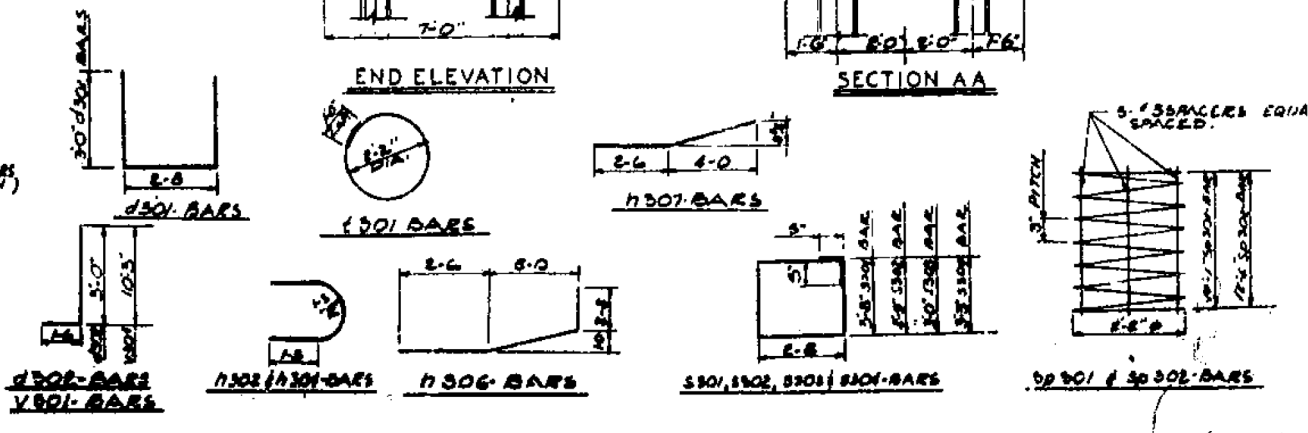
**ILLINOIS DIVISION OF HIGHWAYS**  
 BLODGETT ROAD OVER FAI:55  
 (U.S.66) SECTION 99-2HB3  
 WILL COUNTY

**PIER 3 DETAILS**

NO.	DATE	BY	REVISION
D.M.R.	D.M.R.	F.E.D.	H.S.M. 5-22-59



**PILE DATA (NOBPA)**  
 CAPACITY - 30 TONS  
 EST. LENGTH - 10 FT.  
 10 REQ'D - PIER 3  
 INCLUDING 1 TEST PILE



**BLOOM COMPANIES, LLC**  
 Infrastructure Development and Engineering  
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PLOT SCALE = 2.0000' / in.	DRAWN - NA	REVISED -
PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLAN SHEETS  
 SN 099-0182

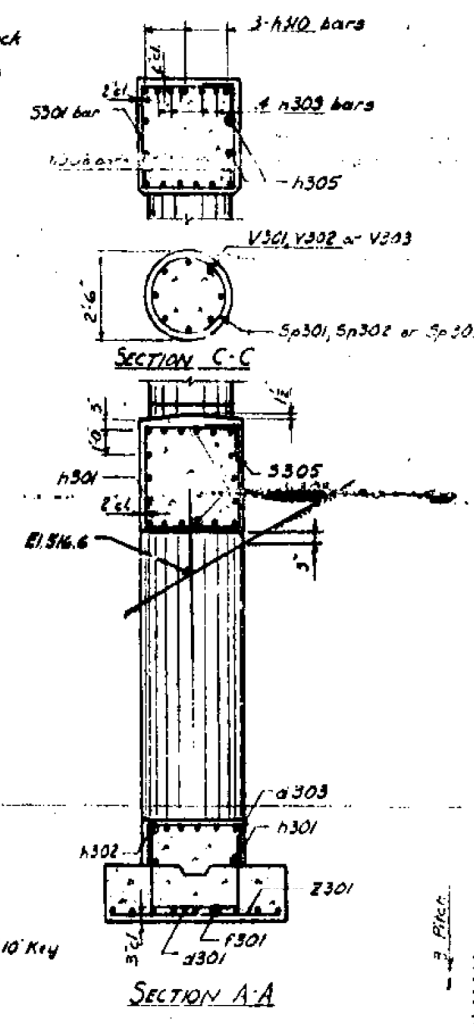
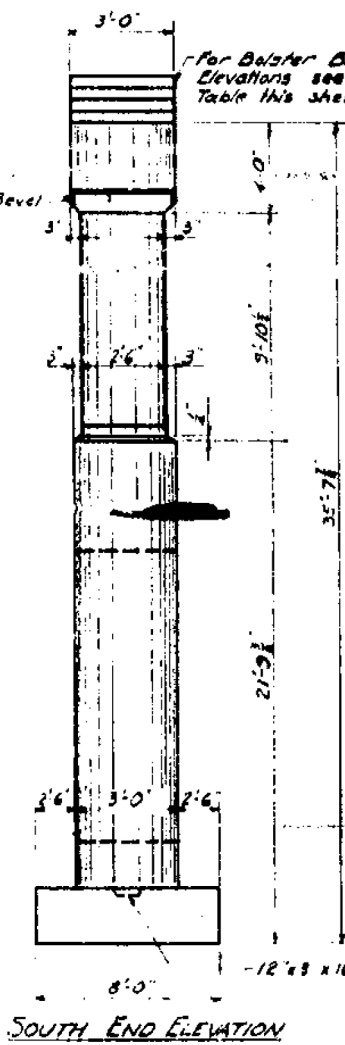
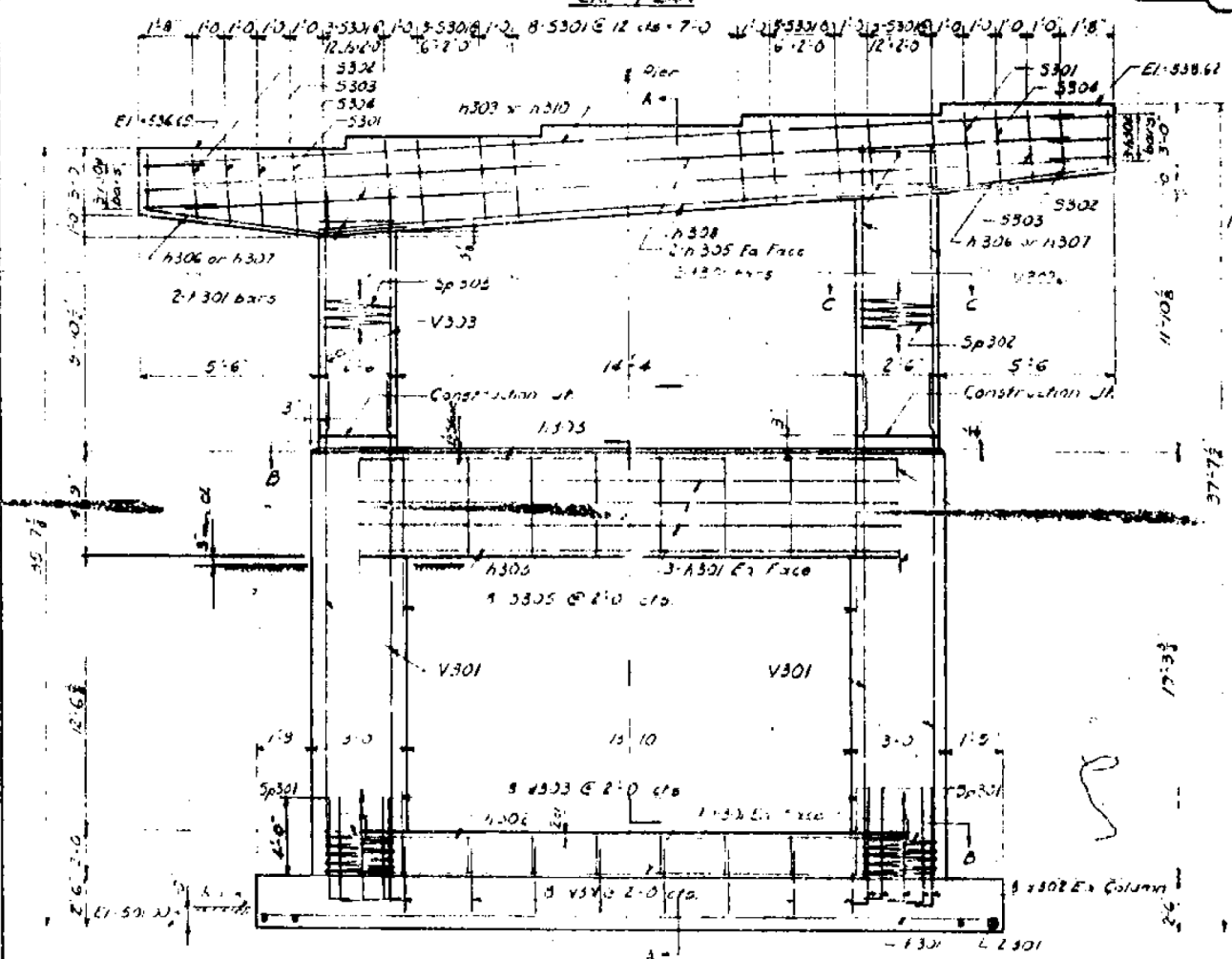
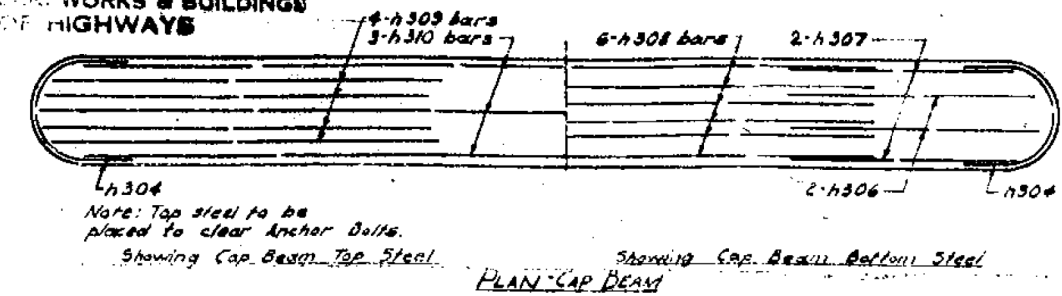
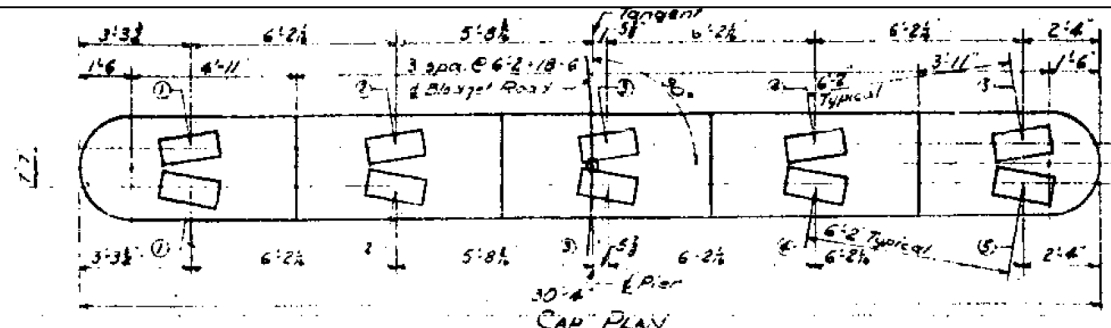
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	84

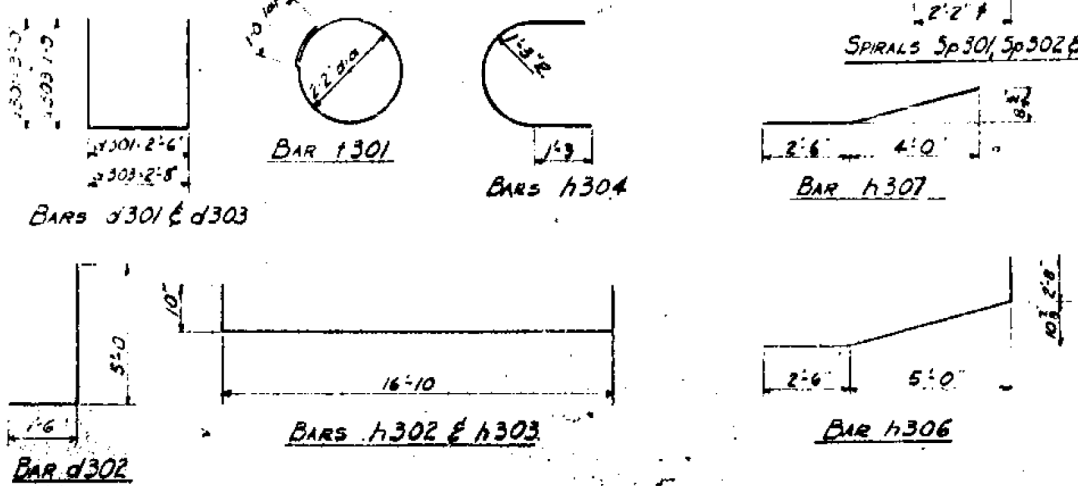
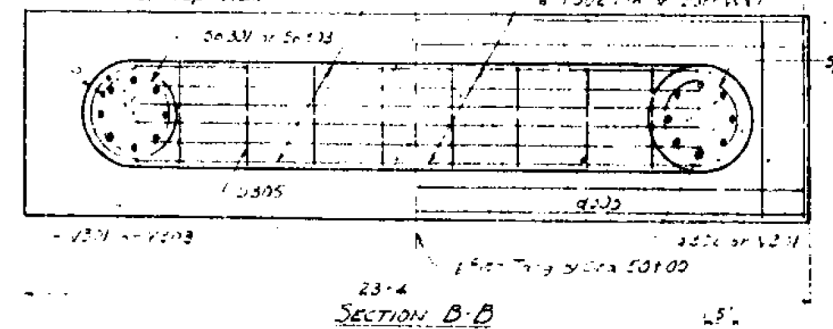
CONTRACT NO. 60X60  
 ILLINOIS FED. AID PROJECT

PER CAP ELEVATIONS

Location	10m	15m	20m	25m	30m
E Side	536.65	537.15	537.64	538.14	538.62
W Side	536.65	537.15	537.64	538.14	538.62



BAR	No.	SIZE	LENGTH	SPACING	SHAPE
h301	9	#4	23'-0"	11" (P)	
h302	24	#5	7'-6"	1'-0"	
h303	4	#6	7'-10"	As Shown	C
h304	8	#5	11'-0"	As Shown	
h305	6	#5	13'-0"	As Shown	
h306	12	#8	18'-6"	As Shown	
h307	6	#5	6'-5"	As Shown	
h308	4	#6	27'-4"	As Shown	
h309	4	#6	10'-0"	As Shown	
h307	4	#6	6'-7"	As Shown	
h308	6	#7	20'-0"	As Shown	
h309	8	#11	11'-6"	As Shown	
h310	3	#11	27'-4"	As Shown	
V301	16	#3	18'-6"	As Shown	
V302	8	#3	14'-0"	As Shown	
V303	8	#3	12'-0"	As Shown	
Sp301	2	#5	585'-0"	As Shown	M
Sp302	1	#6	293'-9"	As Shown	M
Sp303	1	#5	245'-3"	As Shown	M
S301	26	#6	13'-6"	As Shown	
S302	2	#4	11'-8"	As Shown	
S303	2	#4	12'-2"	As Shown	
S304	2	#4	12'-8"	As Shown	
S305	3	#4	14'-10"	As Shown	
Class X Concrete			Cu Yds	54.8	
Reinforcement Bars			Lbs	7370	
Class A Excavation for Structures			Cu Yds	177.0	
Rock Excavation for Structures			Gu Yds	7.0	



EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

PIER 3  
BLODGETT ROAD OVER F.A.I. RT. 55  
(U.S. 66) SECTION 99-2HB-3  
WILL COUNTY

DESIGNED	J. H. L...	REVISION	August 15, 1960
CHECKED	P. H. H...		
DRAWN	J. Ganci		
CHECKED	P.H.H.		

USER NAME	= tborges	DESIGNED	= NA	REVISED	=
		DRAWN	= NA	REVISED	=
		CHECKED	= NA	REVISED	=
		DATE	= NA	REVISED	=
PLOT SCALE	= 2.0000 "/ in.				
PLOT DATE	= 3/31/2014				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	85
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

FILE NAME = F:\3-1319\_Bldg\Drawings\CADD\Sheets\0180536-int-E.Plan.dgn

FILE NO.	DATE	BY	CHKD	APP'D
55 99-2HB-31-3	WILL	57	24	

CAP BEAM ELEVATIONS	
LOCATION	BLDGGETT ROAD OVER FAI-55
E. SIDE	1336.46   1336.46   1336.46   1336.46   1336.46
W. SIDE	1336.46   1336.46   1336.46   1336.46   1336.46

BAR SCHEDULE					
BAR NO	SIZE	LENGTH	PACING	SHAPE	
1401	8	6	23-4	11"	—
1401	10	6	6-6	1-4"	—
1401	6	4	7-10	AS SHOWN	○
1401	6	6	16-11	1-4"	—
1402	6	4	6-6	1-4"	—
1402	6	3	16-11	AS SHOWN	—
1402	6	3	6-6	AS SHOWN	—
1402	4	3	27-3	AS SHOWN	—
1406	4	6	10-8	AS SHOWN	—
1407	4	6	6-7	AS SHOWN	—
1408	6	7	20-3	AS SHOWN	—
1409	8	10	11-6	AS SHOWN	—
1410	3	10	27-4	AS SHOWN	—
1401	10	5	11-6	1-0"	□
1402	10	5	4-6	AS SHOWN	—
1403	8	9	17-2	AS SHOWN	—
1404	6	8	19-2	AS SHOWN	—
1401	10	6	8-8	1-0"	□
1402	10	6	4-6	AS SHOWN	—
1401	1	4	-	MM	MM
1402	1	4	-	MM	MM
1401	26	4	15-6	AS SHOWN	□
1402	2	2	17-8	AS SHOWN	□
1403	2	4	12-2	AS SHOWN	□
1404	2	4	12-8	AS SHOWN	□

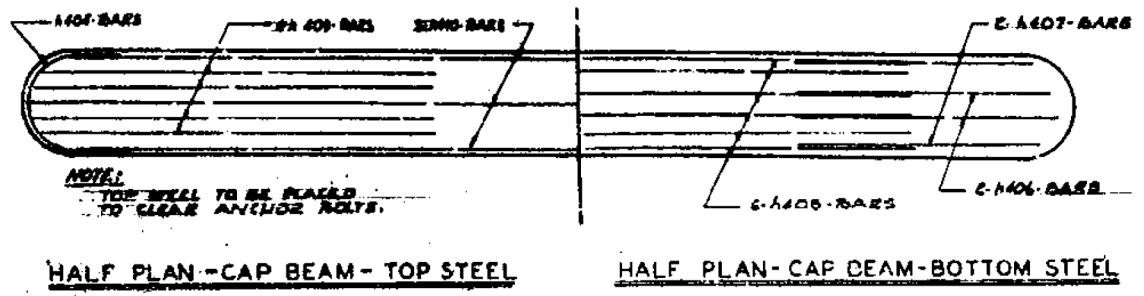
QUANTITIES	
CLASS 'X' CONCRETE	428 CU YDS
REINFORCEMENT BARS	4286 LBS
CL 'A' EXCAV. FOR STRUC	60 CU YDS
DRIVING STEEL PILES	270 LIN. FT
FURNISHING STL PILES	270 LIN. FT
NAME PLATE	1 EACH

NOTE:  
 PROVIDE SPIRAL TOP & BOTTOM WITH ONE TURN 1" O.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.  
 ALL BOLSTER BLOCK STEPS SHALL BE TOGGED.

CONBOY, TOWNSEND & ASSOCIATES  
 CONSULTING ENGINEERS  
 CHICAGO, ILLINOIS  
**ILLINOIS DIVISION OF HIGHWAYS**  
 BLDGETT ROAD OVER FAI-55  
 US 66 SECTION 99-2HB-3  
 WILL COUNTY

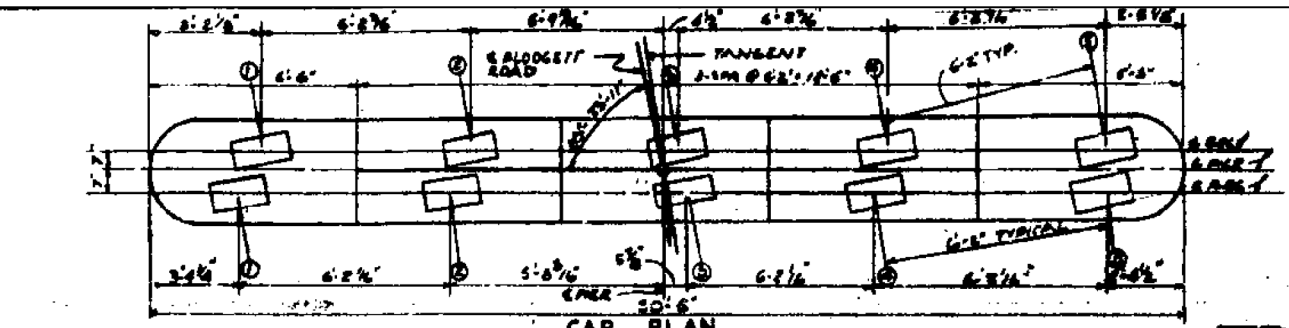
PIER 4 DETAILS			
D.M.P.	D.M.P.	REP.	H.S.M. 872-59

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	86
				CONTRACT NO. 60X60
ILLINOIS FED. AID PROJECT				

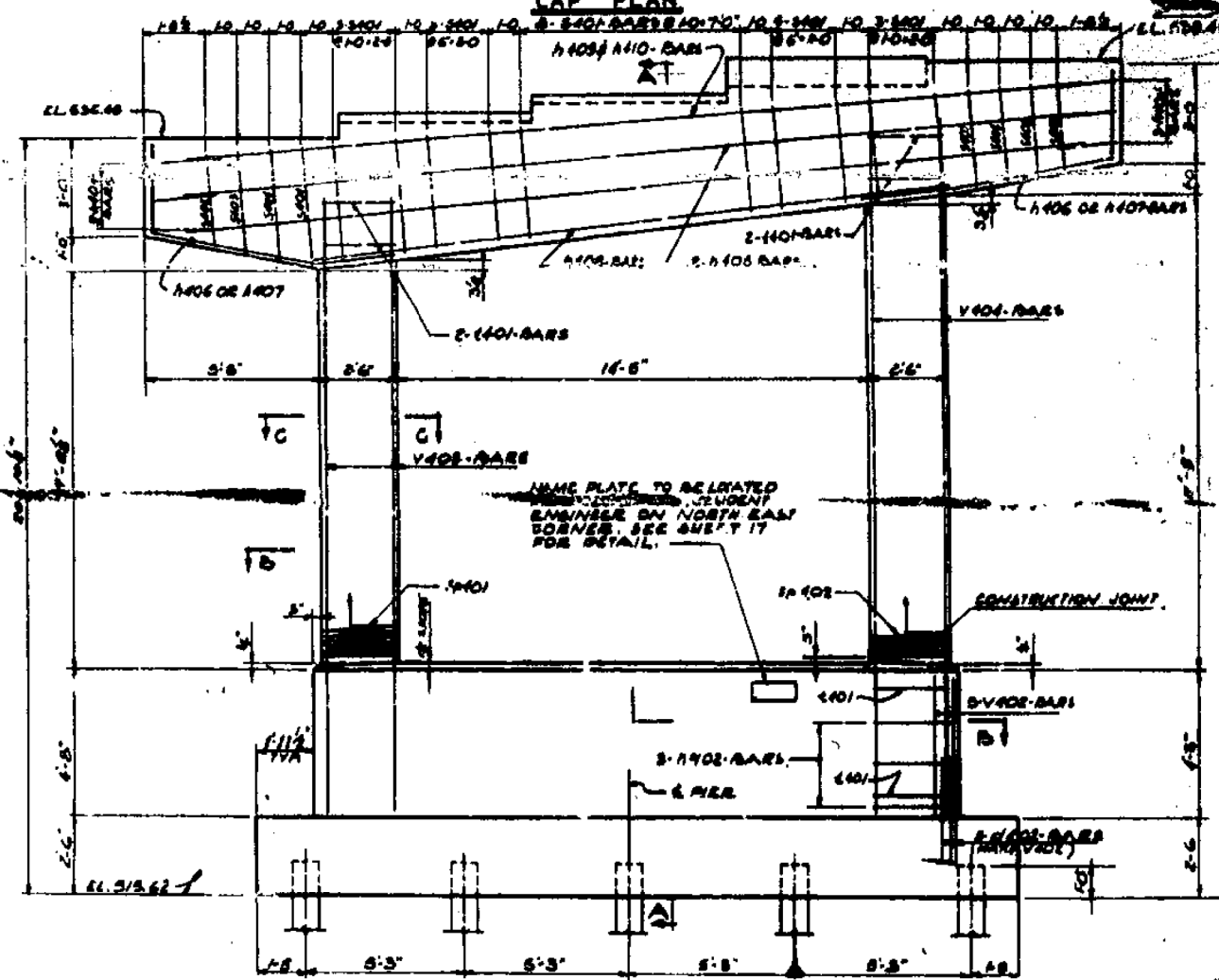


HALF PLAN - CAP BEAM - TOP STEEL

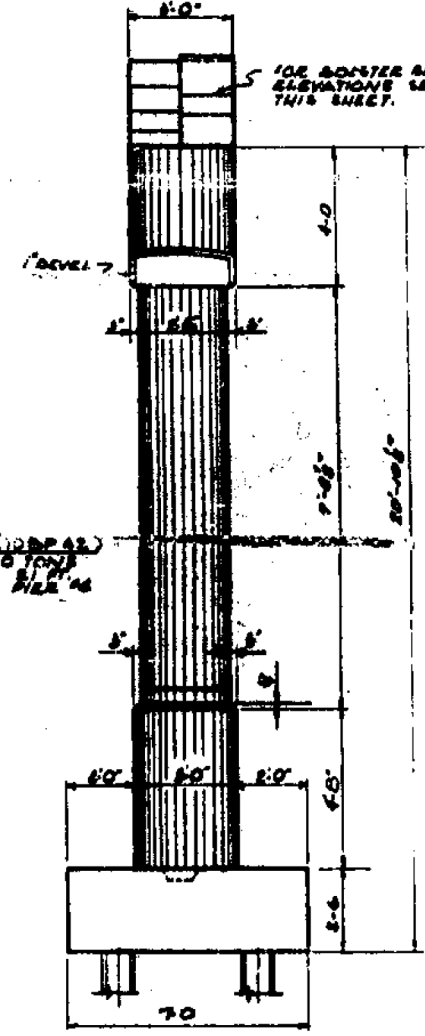
HALF PLAN - CAP BEAM - BOTTOM STEEL



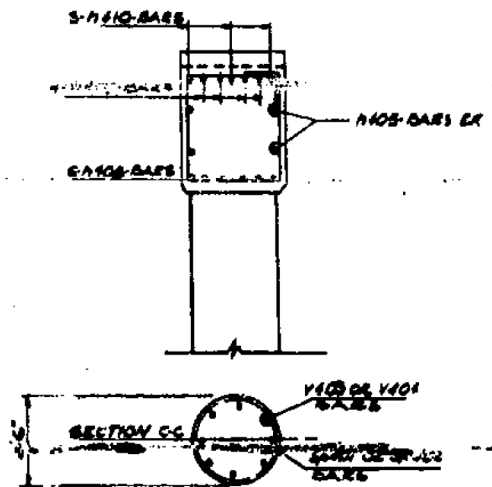
CAP PLAN



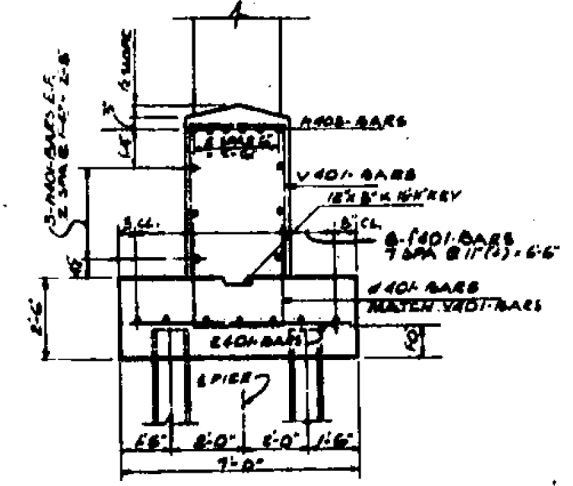
EAST ELEVATION



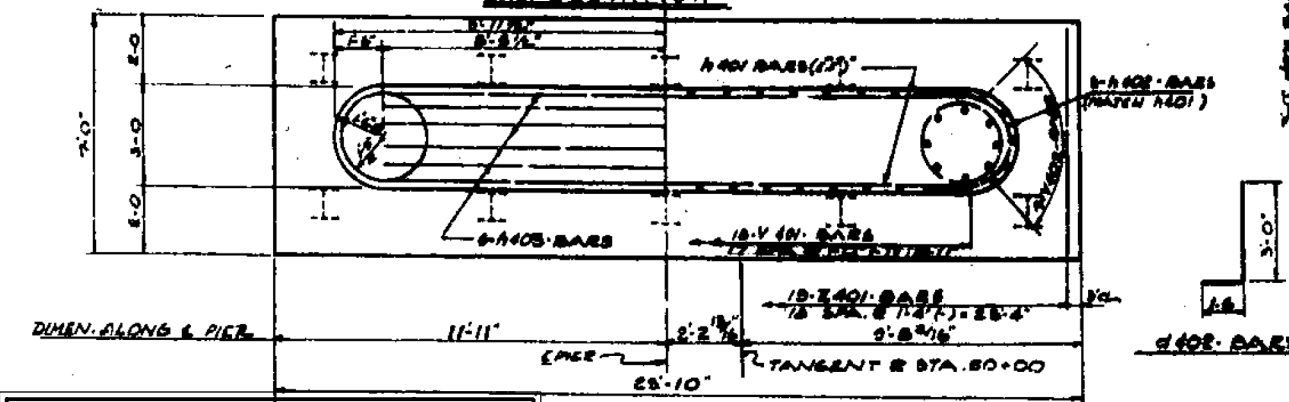
END ELEVATION



SECTION CC

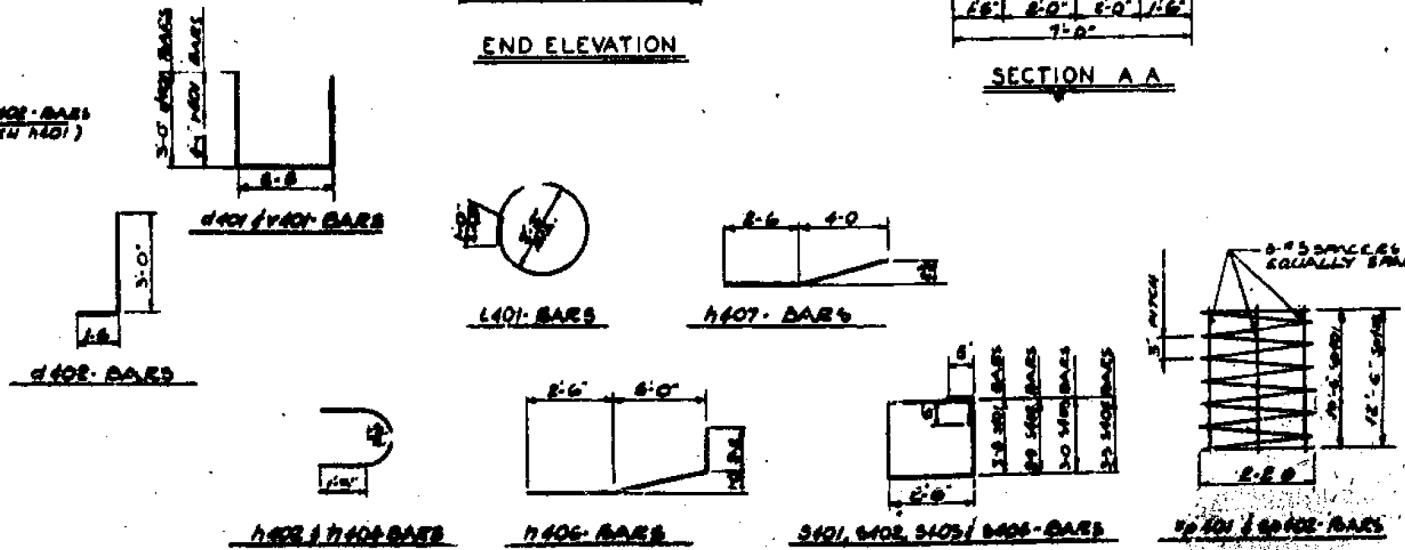


SECTION A-A



SECTION B-B

EXISTING STRUCTURAL PLAN SHEETS  
 "FOR REFERENCE USE ONLY"



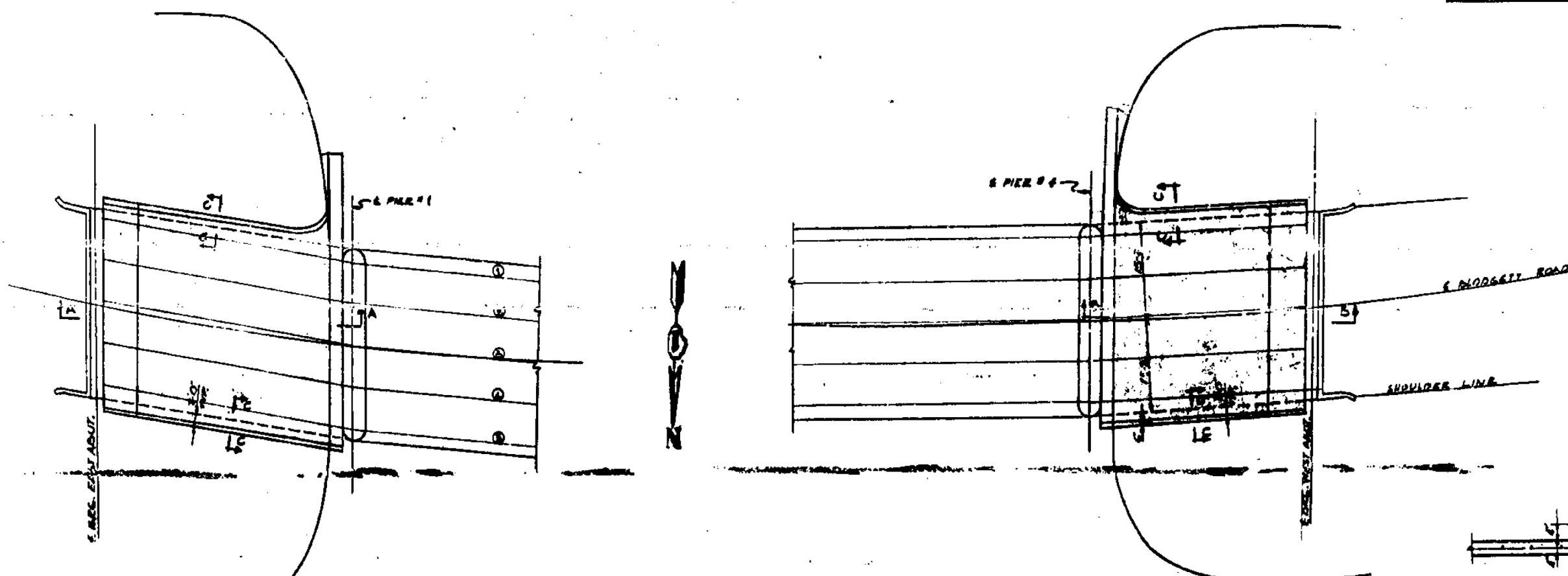
BLOOM COMPANIES, LLC  
 Infrastructure Development and Design  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 676-8500 Fax: (312) 876-8600

USER NAME = tborjes	DESIGNED - NA	REVISED -
PLOT SCALE = 2.0000 "/in.	DRAWN - NA	REVISED -
PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLAN SHEETS  
 SN 099-0182  
 SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

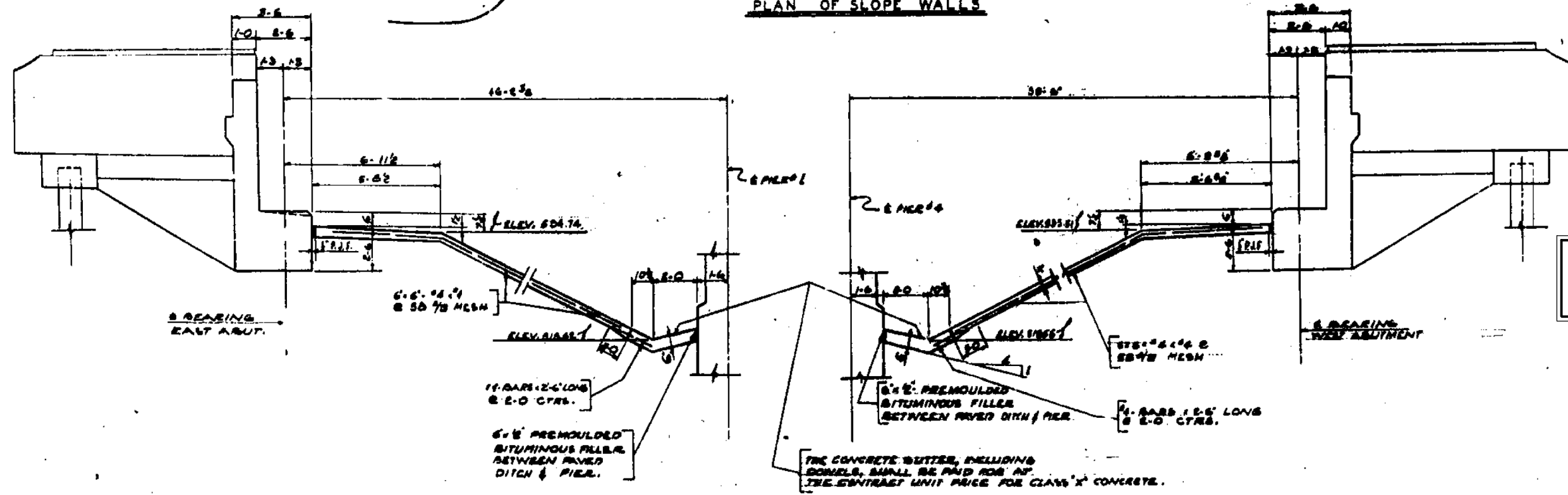
F.A.I. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB3	WILL	87	25
FEDERAL ROAD DISTRICT NO. 7				



PLAN OF SLOPE WALLS



SECTION C C



SECTION A A

SECTION B B

EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

SLOPE WALLS	926	SQ. YDS.
CLASS 'X' CONCRETE	6.0	CU. YDS.
CONNER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILLINOIS		
ILLINOIS DIVISION OF HIGHWAYS BLODGETT ROAD OVER FAI-55 (US66) SECTION 99-2HB3 WILL COUNTY		

SLOPE WALLS

F.A.I. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-31-3	WILL	87	87
CONTRACT NO. 60X60				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLAN SHEETS  
SN 099-0182

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

USER NAME = tborges	DESIGNED - NA	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - NA	REVISED -
PLOT DATE = 3/31/2014	CHECKED - NA	REVISED -
	DATE - NA	REVISED -

**BLOOM COMPANIES, LLC**  
Infrastructure Development and Design  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 676-8500 Fax: (312) 676-8500

FILE NAME = FAI-1319-Bldgstr-CADDSheets-D160636-struct-E.P1.dwg