

08-02-2024 LETTING ITEM 051

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 93809		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED HIGHWAY PLANS
LOCAL BRIDGE FORMULA PROJECT**

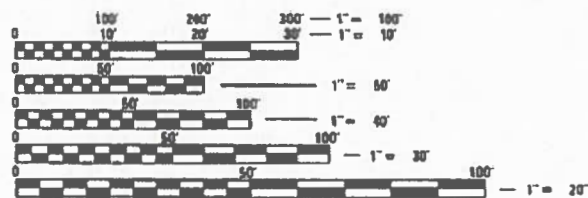
FAS 625 (WEST DIVERNON ROAD)
SECTION 22-00018-00-BR
PROJECT 35HH(607)
ROADWAY RECONSTRUCTION
BRIDGE REPLACEMENT
CITY OF AUBURN
SANGAMON COUNTY

C-96-012-24



INDEX OF SHEETS
SEE SHEET 2 FOR "INDEX OF SHEETS"
HIGHWAY STANDARDS
SEE SHEET 2 FOR "HIGHWAY STANDARDS"
UTILITY CONTACTS
SEE SHEET 2 FOR "UTILITY CONTACTS"

W. DIVERNON RD (MAJOR COLLECTOR)
POSTED SPEED 35 MPH
ADT = 1000 (2022)
P.V. = 1232 (88%)
S.V. = 98 (7%)
M.V. = 70 (5%)

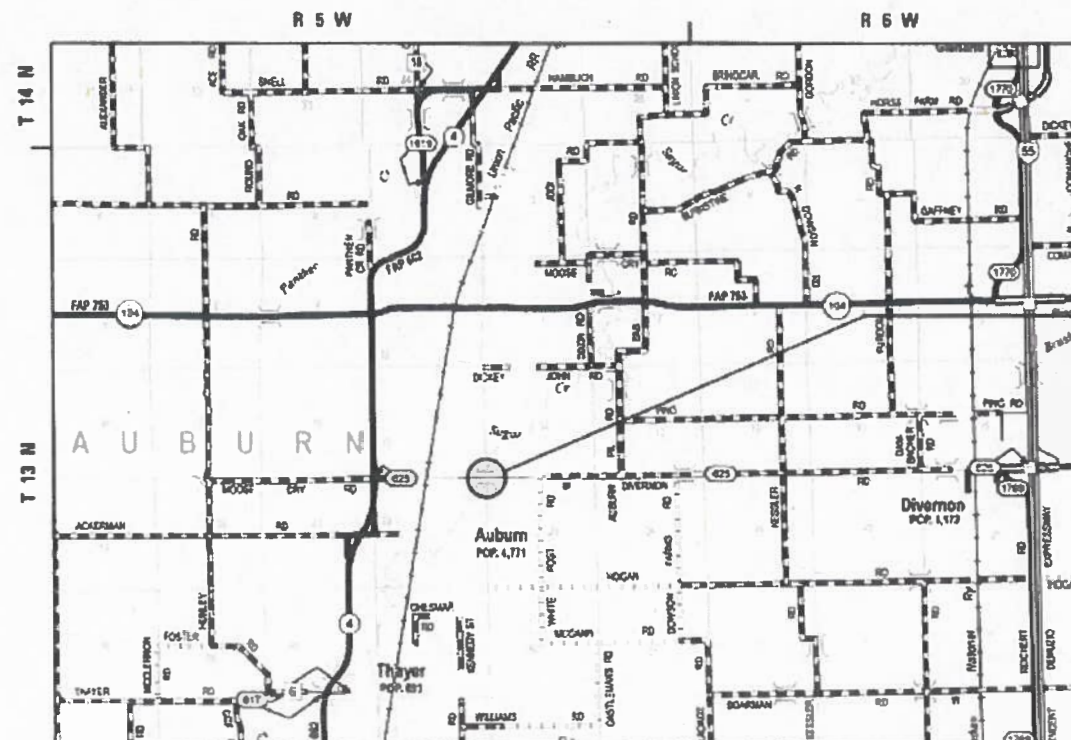


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER
PROJECT MANAGER

CONTRACT NO. 93809



LOCATION MAP

APPROXIMATE SCALE: 0 1 2 MILES
GROSS LENGTH = 476.00 FT = 0.090 MILE
NET LENGTH = 476.00 FT = 0.090 MILE



PROJECT LOCATION
BEGIN STA 50+84.00
END STA 55+60.00
SN 084-6188
PPC DECK BEAM BRIDGE



Stephen Kehoe 4/16/2024
STEPHEN M. KEHOE ILLINOIS P.E. 62-048103 DATE
EXPIRES 11/30/2025
SIGNATURE AND SEAL APPLY TO ALL SHEETS
EXCEPT AS NOTED BELOW:
SHEETS 15-28

APPROVED	<i>R. Davis</i>	20	24
COUNTY ENGINEER			
APPROVED	<i>April 18</i>	20	24
CITY OF AUBURN			
PASSED	<i>April 24</i>	20	24
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS			
APPROVED	<i>April 24</i>	20	24
TOWNSHIP FOUR ENGINEER			
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
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12	REMOVAL PLAN
13	PLAN AND PROFILE
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29 - 32	CROSS SECTIONS

HIGHWAY STANDARDS

STD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-02	DELINEATORS
701901-09	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

MIX DESIGN TABLE

LOCATION(S) :	FULL DEPTH PAVEMENT	
MIXTURE USE(S) :	SURFACE	BINDER
PG:	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0%, N50	4.0%, N50
MIXTURE COMPOSITION	1L-9.5	1L-19.0
FRICTION AGGREGATE	MIX C	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD	112 LBS/SQ YD
QUALITY MANAEMENT PROGRAM:	QC/QA	QC/QA

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TRESS WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE RESIDENT ENGINEER SHALL BE CONTACTED UPON COMPLETION OF THE SUBGRADE AND PRIOR TO THE SUBBASE GRANULAR PLACEMENT TO DETERMINE THE NECESSITY OF THE SUBGRADE IMPROVEMENTS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES.
- ALL ELEVATIONS REFER TO THE NAVD 88 DATUM.
- ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP.
- IF ANY SECTION OR SUB-SECTION MONUMENT (I.E. STONE, BRASS PLUG, ALUMINUM DISK, IRON PIPE OR PIN, MAG NAIL, CROSS, ETC.) IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENT IS REMOVED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE THE MONUMENT IN PLACE UNTIL AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES -SURVEYING" HAS REFERENCED ITS LOCATION.
- ANY MONUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES -SURVEYING".
- ALL RELEVANT SCHOOL DISTRICTS, POLICE, HOSPITALS, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.
- FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

TEMPORARY SEEDING	100 LB/ACRE
STONE RIPRAP	1.5 TON/CU YD
HOT-MIX ASPHALT BINDER COURSE	112 LB/SQ YD/IN
HOT-MIX ASPHALT SURFACE COURSE	112 LB/SQ YD/IN
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LBS/SQ FT
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQ FT
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE ENTRNACES AND FIELD ENTRANCES AT ALL TIMES.
- MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY CONTACTS

UTILITY	CONTACT	PHONE	EMAIL
AMEREN (ELECTRIC)	RICHARD LAVIN	(217) 741-6549	RLavin@ameren.com
FRONTIER (COMMUNICATIONS)	JOHN OFLAHERTY	(217) 483-4658	john.o'flaherty@ftr.com
CITY OF AUBURN (WATER)	TJ HENSON	(217) 971-8180	tj.henson@auburnillinois.us
CITY OF AUBURN (SEWER)	TJ HENSON	(217) 971-8180	tj.henson@auburnillinois.us
CITY OF AUBURN (GAS)	TJ HENSON	(217) 971-8180	tj.henson@auburnillinois.us
METRO (CONNEXUS) (COMMUNICATIONS)	JESSI	(217) 294-5368	

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USER NAME = rgoertz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 60.0001 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/18/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES	
WEST DIVERNON ROAD	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	2
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY	BRIDGE
				0004	0010
				RURAL	RURAL
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	116	116	
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30	30	
* 20100500	TREE REMOVAL, ACRES	ACRE	0.2	0.2	
* 20101100	TREE TRUNK PROTECTION	EACH	9	9	
20200100	EARTH EXCAVATION	CU YD	255	255	
20300100	CHANNEL EXCAVATION	CU YD	541		541
20400800	FURNISHED EXCAVATION	CU YD	838	838	
25100630	EROSION CONTROL BLANKET	SQ YD	1,074	1,074	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	535	535	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	110	110	
28000305	TEMPORARY DITCH CHECKS	FOOT	119	119	
28000400	PERIMETER EROSION BARRIER	FOOT	509	509	
28100105	STONE RIPRAP, CLASS A3	SQ YD	121	121	
31100700	SUBBASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	971	971	

* SPECIALTY ITEMS

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QUIGG ENGINEERING INC

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PLOT DATE	= 4/18/2024

DESIGNED	- RG	REVISED	-
DRAWN	- RG	REVISED	-
CHECKED	- SMK	REVISED	-
DATE	- 03/22/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
WEST DIVERNON ROAD

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	3
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY	BRIDGE
				0004	0010
				RURAL	RURAL
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,002	2,002	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	201	201	
40603080	HOT-MIX ASPHALT BINDER COURSE, 1L- 19.0, N50	TON	179	179	
40604050	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	TON	121	76	45
44000100	PAVEMENT REMOVAL	SQ YD	864	864	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	324	324	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	148		148
50200300	COFFERDAM EXCAVATION	CU YD	96		96
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	145.1		145.1
50300265	SEAL COAT CONCRETE	CU YD	51.8		51.8
50300280	CONCRETE ENCASEMENT	CU YD	3.4		3.4

* SPECIALTY ITEMS

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 PLOT DATE = 4/18/2024

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 CHECKED - SMK
 DATE - 03/22/2024

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 WEST DIVERNON ROAD

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	4
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY	BRIDGE
				0004	0010
				RURAL	RURAL
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3,078		3,078
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	11,670		11,670
* 50901050	STEEL RAILING, TYPE SM	FOOT	221		221
51201400	FURNISHING STEEL PILES HP10X42	FOOT	1,021		1,021
51202305	DRIVING PILES	FOOT	1,021		1,021
51203400	TEST PILE STEEL HP10X42	EACH	2		2
51204650	PILE SHOES	EACH	22		22
51500100	NAME PLATES	EACH	1		1
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	661		661
58700300	CONCRETE SEALER	SQ FT	835		835
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	46		46
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63500105	DELINEATORS	EACH	4	4	

* SPECIALTY ITEMS

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 PLOT DATE = 4/18/2024

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 DATE - 03/22/2024

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 WEST DIVERNON ROAD

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93809	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY	BRIDGE
				0004 RURAL	0010 RURAL
* 66500105	WOVEN WIRE FENCE, 4'	FOOT	213	213	
67100100	MOBILIZATION	L SUM	1	1	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,071	1,071	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4	0.4	
X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	331		331
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	213	213	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
# 20076600	TRAINEES	Hour	500		
# 20076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500		

* SPECIALTY ITEMS
0042

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QUIGG ENGINEERING INC

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	DATE - 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
WEST DIVERNON ROAD

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	6
CONTRACT NO. 93B09			ILLINOIS FED. AID PROJECT	

PAVEMENT SCHEDULE									
LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A 8"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, 1L- 19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	PAVEMENT REMOVAL	AGGREGATE SHOULDERS, TYPE B 6"
			31100700	40600275	40600290	40603080	40604050	44000100	48101500
STA	STA	LT/RT	SQ YD	POUND	POUND	TON	TON	SQ YD	SQ YD
50+84.00	52+70.00	LT/RT	496	1023.0	102.3	91.5	38.6		165.4
53+82.00	55+60.00	LT/RT	474.7	979.0	97.9	87.5	37.0		158.2
50+84.00	52+79.91	LT/RT						432.6	
53+68.37	55+60.00	LT/RT						430.9	
BRIDGE (SN 084-6188)							45.0		
TOTAL			970.7	2002.0	200.2	179.0	120.6	863.52	323.6
USE			971	2002	201	179	121	864	324

EARTHWORK SCHEDULE						
LOCATION	(*) EARTH EXCAVATION	CHANNEL EXCAVATION	(*) STRUCTURE EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	(*) EMBANKMENT	(**) EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
ROADWAY						
STA 50+84 to STA 52+70 STA 53+82 to STA 55+60	255			217	1,181	-964
BRIDGE						
STA 53+26		541	148	126		126
TOTALS	255	541	148	343	1,181	-838

(*) EARTH AND STRUCTURE EXCAVATION TO BE USED AS EMBANKMENT WITH SHRINKAGE FACTOR AS NOTED
(**) POSITIVE NUMBER = WASTE TO BE REMOVED FROM SITE
NEGATIVE NUMBER - FURNISHED EXCAVATION 20400800

TEMPORARY DITCH CHECKS					
28000305					
STA	STA	LT/RT	DITCH CHECKS	LENGTH	FOOT
54+50	55+00	RT	4	7.0	28.0
55+00	55+50	RT	4	7.0	28.0
55+50	55+60	RT	1	2.0	2.0
54+50	55+00	LT	4	7.0	28.0
55+00	55+50	LT	4	7.0	28.0
55+50	55+60	LT	1	5.0	5.0
TOTAL					119.0
USE					119

RIPRAP SCHEDULE			
28100105			
STA	STA	LT/RT	SQ YD
54+50.00	55+50.00	LT	81.75
54+50.00	55+50.00	RT	39.00
TOTAL			120.75
USE			121

SEEDING SCHEDULE						
LOCATION			SEEDING, CLASS 2 (SPECIAL)	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
			X2501000	25100630	25100635	28000250
STA	STA	LT/RT	ACRE	SQ YD	SQ YD	POUND
50+84	52+70	LT	0.086			25.8
53+82	55+60	LT	0.082			27.0
50+84	52+70	RT	0.126			37.8
53+82	55+60	RT	0.036			10.8
50+84	51+50	LT		132.6		
51+50	52+70	LT			300.9	
53+82	54+50	LT			143.9	
54+50	55+60	LT		260.8		
50+84	52+50	RT		535.6		
52+50	52+70	RT			61.1	
53+82	54+00	RT			28.6	
54+00	55+60	RT		144.5		
TOTAL			0.33	1,073.5	534.5	101.4
USE			0.4	1,074	535	110

PERIMETER EROSION BARRIER			
28000400			
STA	STA	LT/RT	FOOT
50+84.00	52+70.00	LT	186.0
53+82.00	54+50.63	LT	68.7
50+84.00	52+70.00	RT	186.0
53+82.00	54+50.16	RT	68.2
TOTAL			508.9
USE			509

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USER NAME = rgoertz	DESIGNED - RG	REVISED -
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PLOT SCALE = 40.0020 ' / in.	CHECKED - SMK	REVISED -
PLOT DATE = 4/18/2024	DATE - 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
WEST DIVERNON ROAD

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-0018-00-BR	SANGAMON	32	7
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

TREE REMOVAL (UNIT) AND PROTECTION						
LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	TREE TRUNK PROTECTION
				20100110	20100210	20101100
STA	OFF	LT/RT	IN	UNIT	UNIT	EACH
52+71	23	RT	15	15		
52+78	21	RT	8	8		
53+01	17	RT	12	12		
53+09	26	RT	10			1
53+11	29	RT	8			1
53+45	29	RT	20			1
53+49	25	RT	12			1
53+57	20	RT	12	12		
53+64	19	RT	12	12		
53+64	22	RT	12	12		
53+66	16	RT	10	10		
53+67	20	RT	12	12		
53+67	16	RT	11	11		
53+47	30	LT	30		30	
53+56	22	LT	12	12		
54+15	34	RT	18			1
54+55	33	RT	24			1
54+95	34	RT	10, 8, 6			1
55+15	34	RT	10			1
55+38	34	RT	20			1
TOTAL				116	30	9

PAVEMENT MARKING SCHEDULE			
78001110			
STA	STA	LT/RT	PAINT PAVEMENT MARKING - LINE 4"
			FOOT
50+84.00	55+60.00	LT	476.00
50+84.00	55+60.00	RT	476.00
50+84.00	55+60.00	LT/RT	119.00
TOTAL			1,071.00

TREE REMOVAL, ACRES			
20100500			
STA	STA	LT/RT	ACRE
51+20	53+12	LT	0.065
53+48	55+58	LT	0.075
TOTAL			0.14
USE			0.2

FENCE SCHEDULE				
LOCATION			WOVEN WIRE FENCE, 4'	WOVEN WIRE FENCE REMOVAL
			66500105	X6650202
STA	STA	LT/RT	FOOT	FOOT
53+52	55+65	LT	213	213
TOTAL			213	213

GUARDRAIL SCHEDULE						
LOCATION			TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
			63100087	63100167	72501000	78200005
STA	STA	LT/RT	EACH	EACH	EACH	EACH
51+82.50	52+32.50	RT		1	1	
52+32.50	52+70.00	RT	1			4
53+82.00	54+19.50	LT	1			4
54+19.50	54+69.50	LT		1	1	
TOTAL			2	2	2	8

DELINEATORS		
63500105		
STA	LT/RT	EACH
52+70	LT	1
53+82	LT	1
52+70	RT	1
53+82	RT	1
TOTAL		4

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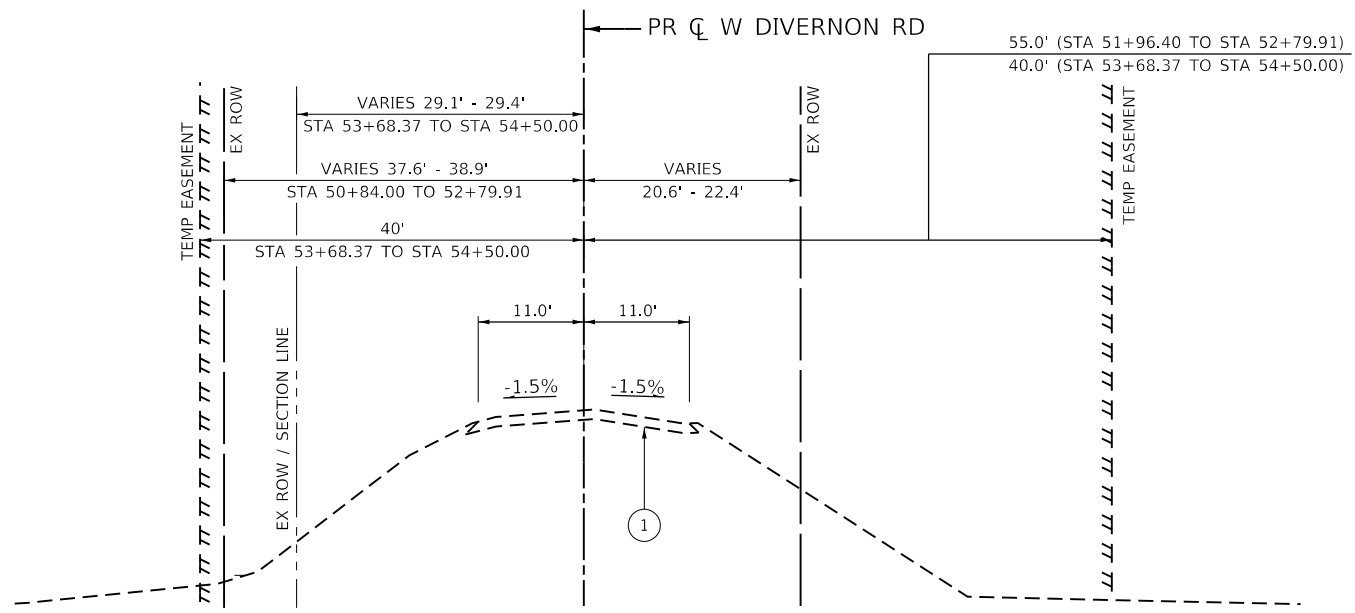
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PLOT DATE = 4/18/2024	DATE - 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES		
WEST DIVERNON ROAD		
SCALE: NONE	SHEET 2 OF 2 SHEETS	STA. TO STA.

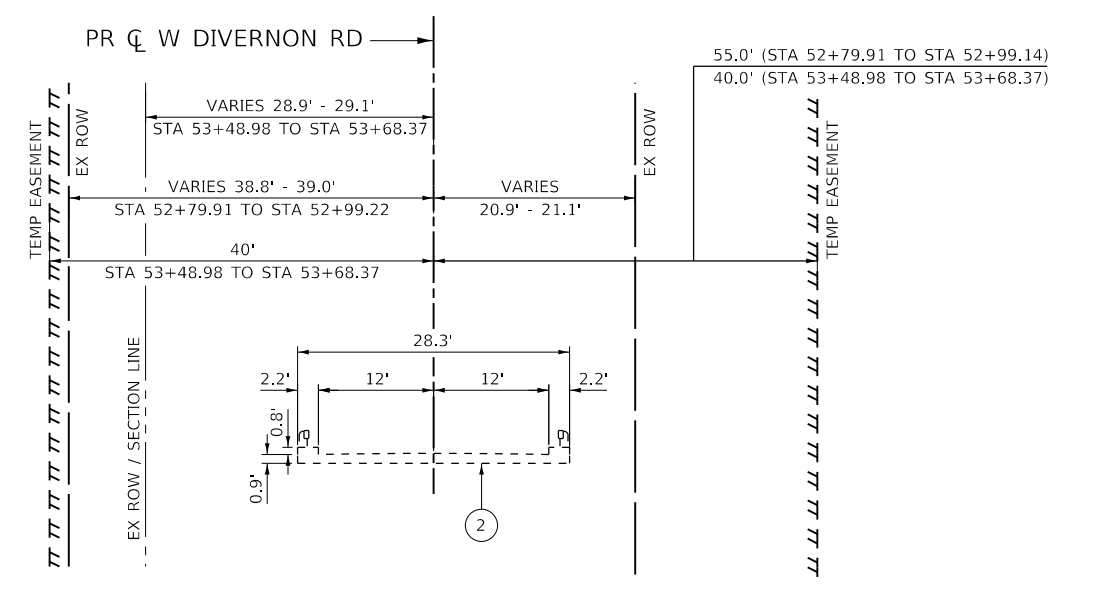
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625	22-00018-00-BR	SANGAMON	32	8
CONTRACT NO. 93809			ILLINOIS FED. AID PROJECT	

LEGEND	
①	EXISTING OIL AND CHIP PAVEMENT
②	EXISTING STRUCTURE



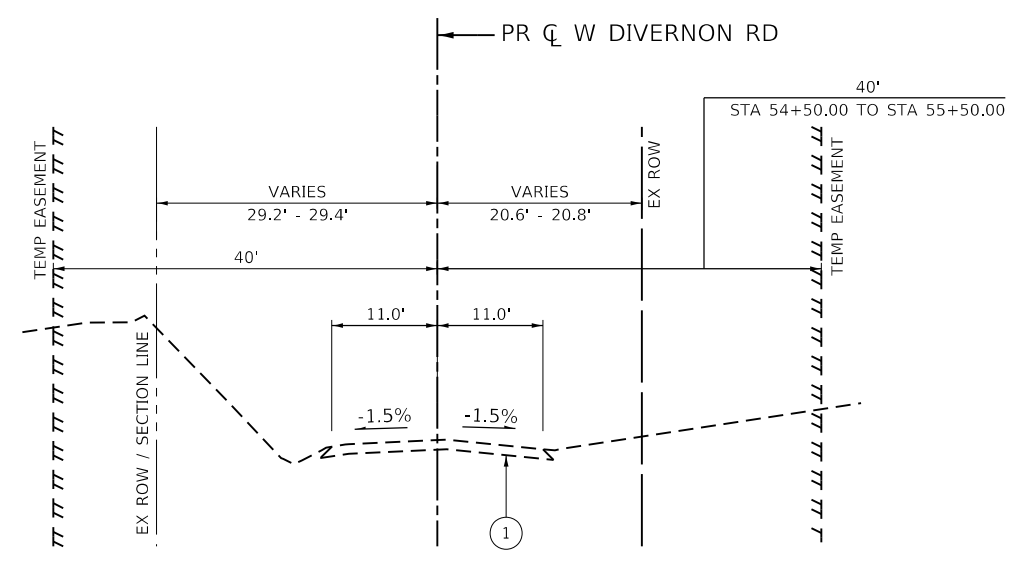
EXISTING TYPICAL SECTION

STA 50+84.00 TO STA 52+79.91
 STA 52+79.91 TO STA 53+68.37 (BRIDGE OMISSION)
 STA 53+68.37 TO STA 54+50.00



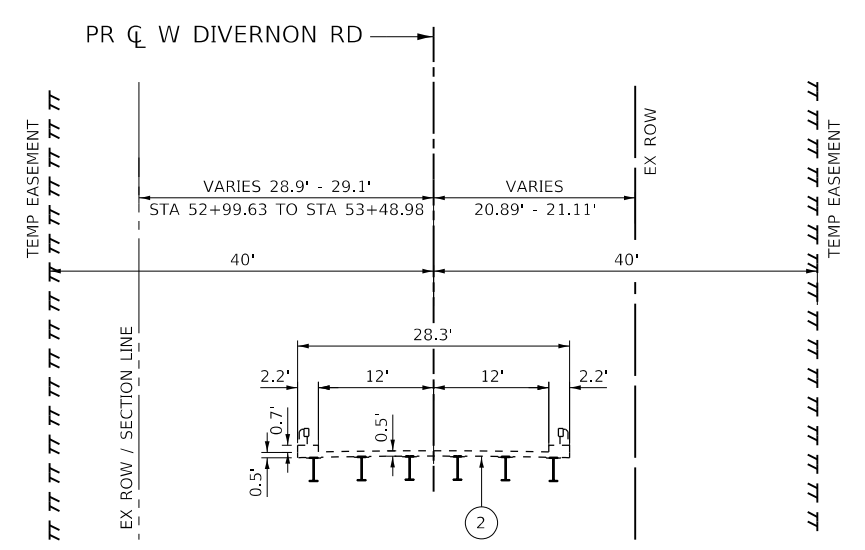
EXISTING BRIDGE TYPICAL SECTION

STA 52+79.91 TO STA 52+99.22 (SPAN 1)
 STA 53+48.98 TO STA 53+68.37 (SPAN 3)



EXISTING TYPICAL SECTION

STA 54+50.00 TO STA 55+60.00



EXISTING BRIDGE TYPICAL SECTION

STA 52+99.22 TO STA 53+48.98 (SPAN 2)

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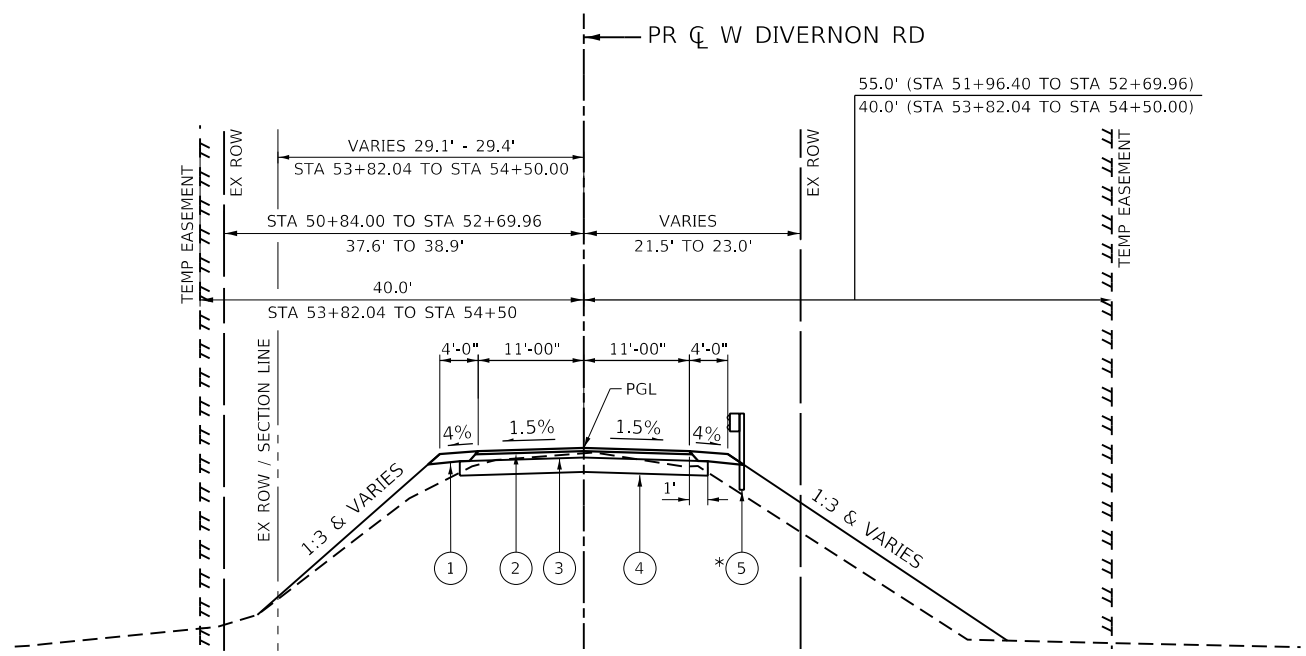
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS		WEST DIVERNON ROAD	
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	9
				CONTRACT NO. 93809
ILLINOIS FED. AID PROJECT				

LEGEND

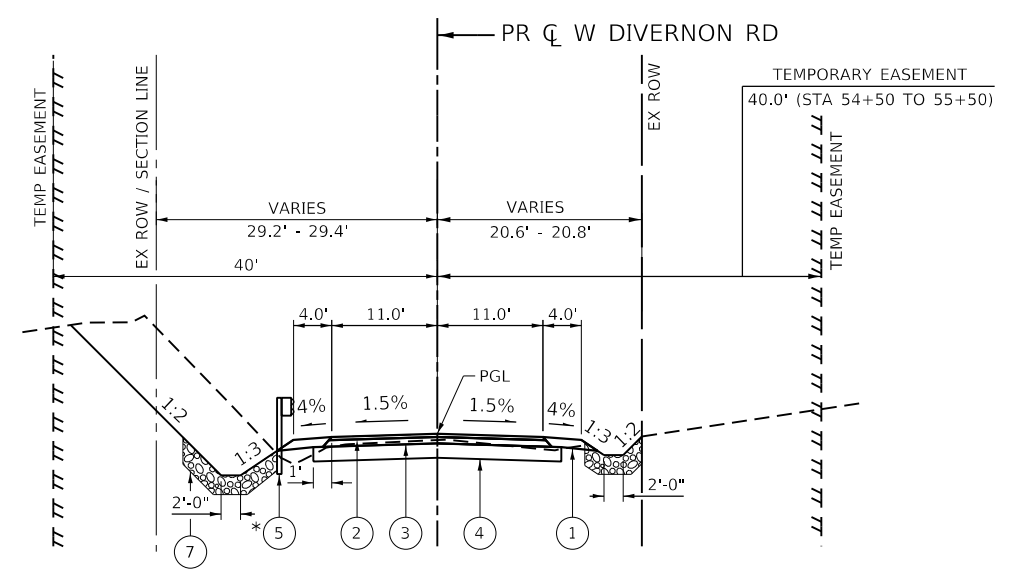
- ① AGGREGATE SHOULDERS, TYPE B 6"
- ② HOT MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 (1½")
- ③ HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 (3½")
- ④ SUBBASE GRANULAR MATERIAL, TYPE A 8"
- ⑤ STEEL PLATE BEAM GUARDRAIL
- ⑥ PROPOSED STRUCTURE
- ⑦ STONE RIPRAP, CLASS A3



PROPOSED TYPICAL SECTION

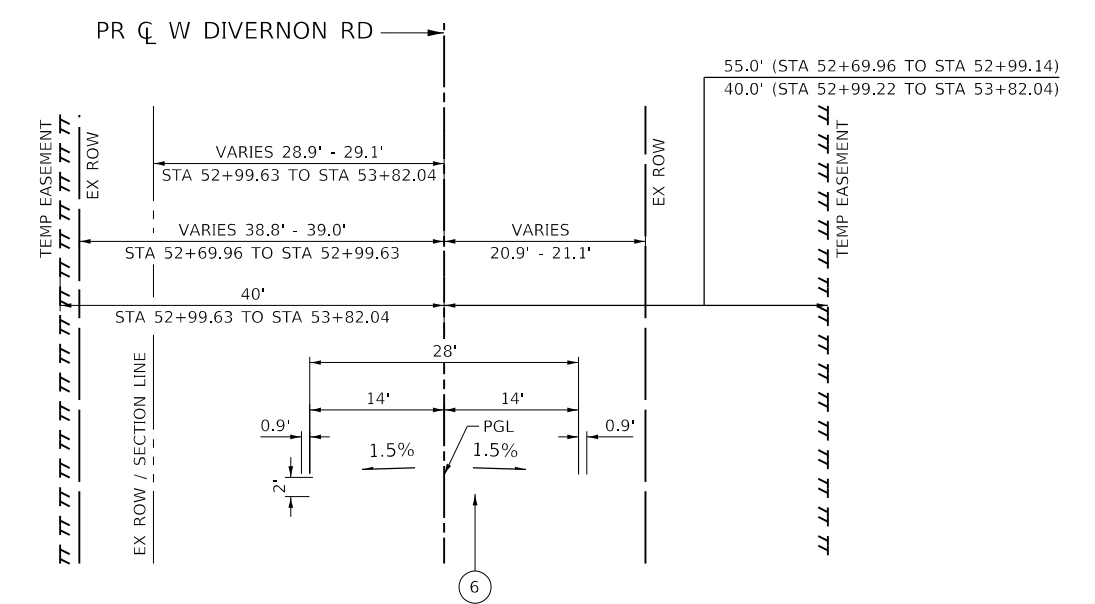
STA 50+84.00 TO STA 52+69.96
 STA 52+69.96 TO STA 53+82.04 (BRIDGE OMISSION)
 STA 53+82.04 TO STA 54+50.00

* PR GUARDRAIL RIGHT
 STA 51+82.50 TO STA 52+70.00
 PR GUARDRAIL LEFT
 STA 53+82.00 TO STA 54+69.5



PROPOSED TYPICAL SECTION

STA 54+50.00 TO STA 55+60.00



PROPOSED BRIDGE TYPICAL SECTION

STA 52+69.96 TO STA 53+82.04

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

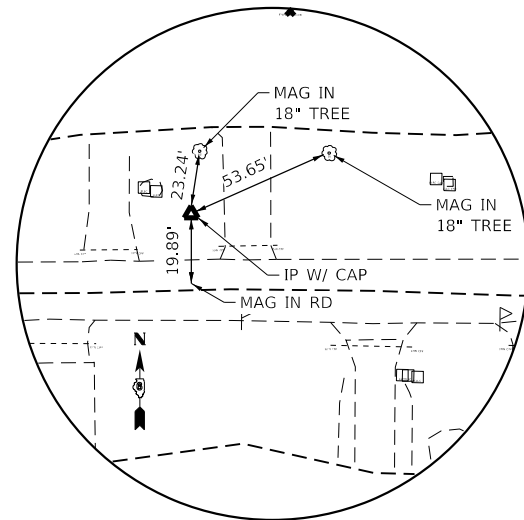
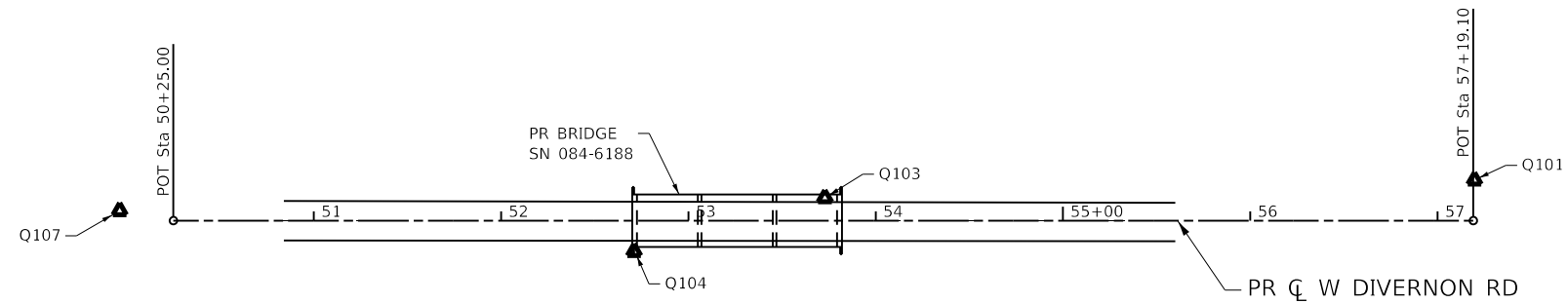
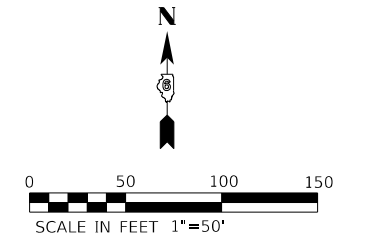
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WEST DIVERNON ROAD	
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STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	10
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

CENTERLINE CONTROL TABLE		
DESCRIPTION	NORTHING	EASTING
POT STA 50+25.00	1056358.55	2416669.21
POT STA 57+19.10	1056367.62	2417363.24

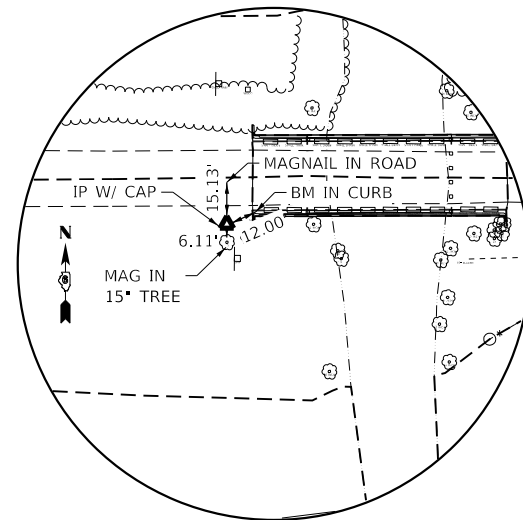
BENCHMARK

BM #01 - BRASS DISK ON BRIDGE
 CURB AT S.W. CORNER OF BRIDGE
 STA 52+81.54, 12.12' RT
 ELEV. 611.124



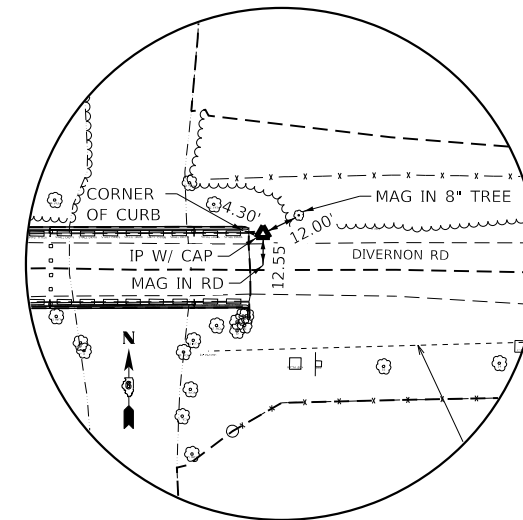
TIE Q107
STA 45+84.74, 28.88 LT

N 1056379.974
 E 2416211.908
 EL 619.782



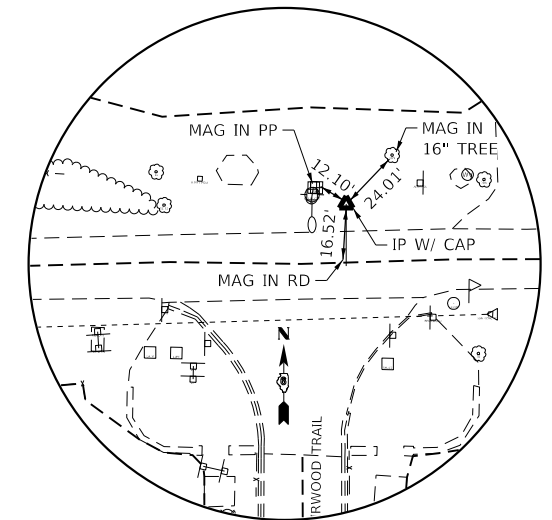
TIE Q104
STA 52+70.94, 16.50 RT

N 1056345.455
 E 2416914.919
 EL 608.520



TIE Q103
53+72.89, 12.21 LT

N 1056375.179
 E 2417016.406
 EL 610.807



TIE Q101
STA 57+19.74, 21.58 LT

N 1056389.069
 E 2417373.137
 EL 629.612

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




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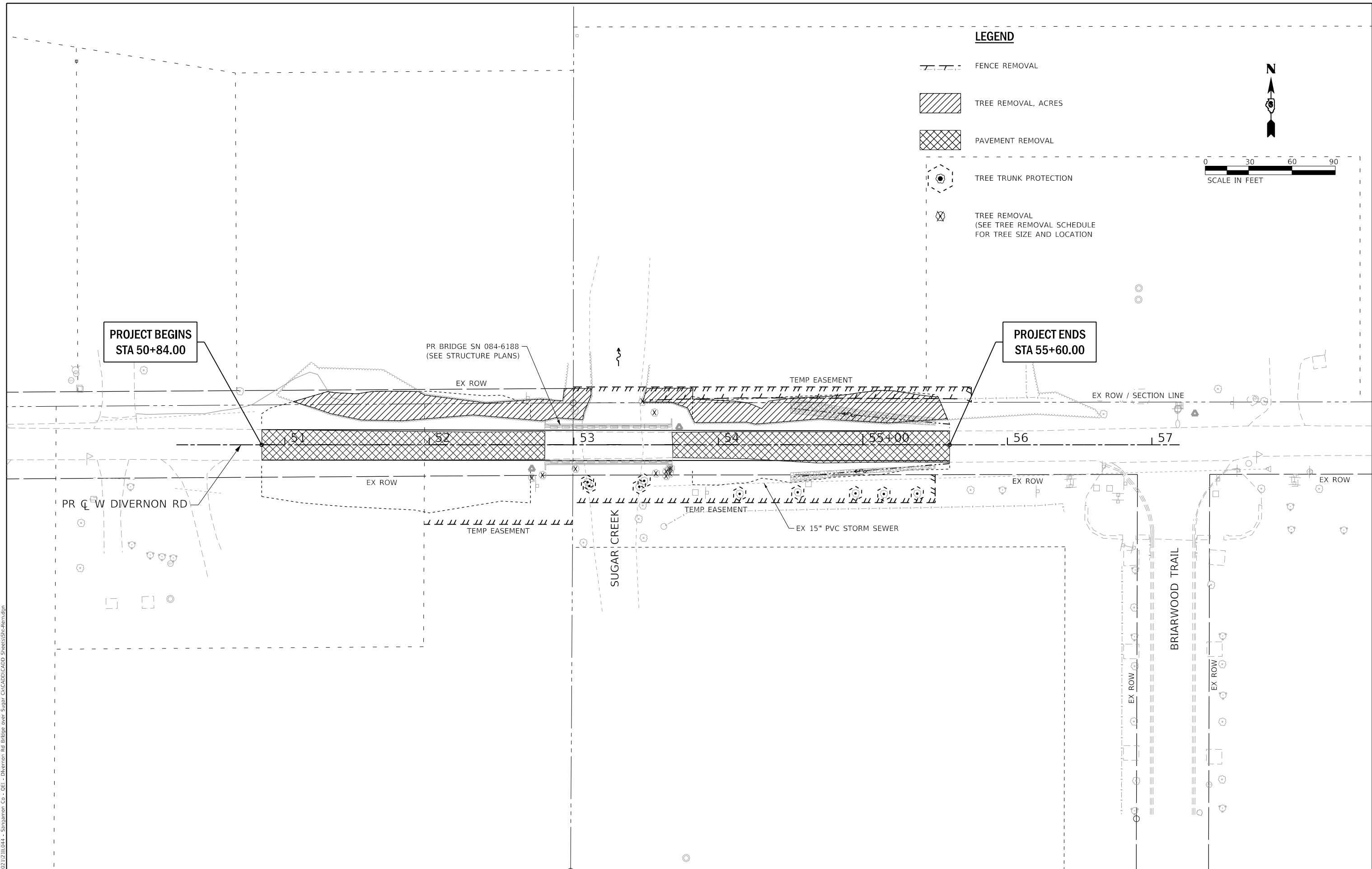
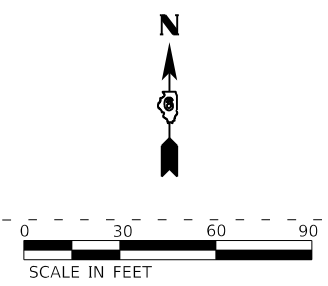
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS	
WEST DIVERNON ROAD	
SCALE: 1"=30'	SHEET 1 OF 1 SHEETS
STA. 50+84.00	TO STA. 55+60.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	11
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

LEGEND

-  FENCE REMOVAL
-  TREE REMOVAL, ACRES
-  PAVEMENT REMOVAL
-  TREE TRUNK PROTECTION
-  TREE REMOVAL
(SEE TREE REMOVAL SCHEDULE FOR TREE SIZE AND LOCATION)



MODEL: Default
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PLOT DATE = 4/18/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

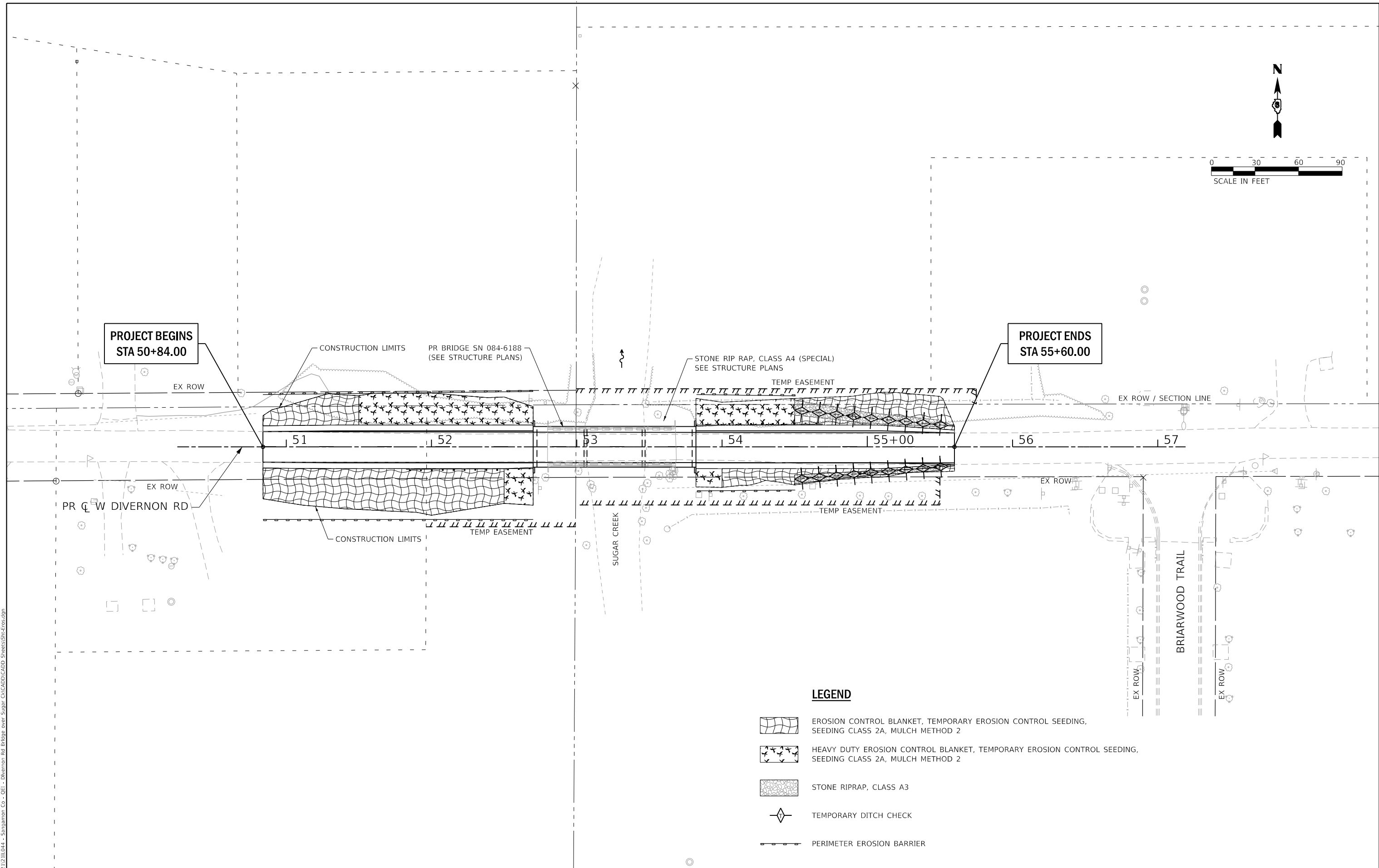
REMOVAL PLAN	
WEST DIVERNON ROAD	
SCALE: 1"=30'	SHEET 1 OF 1 SHEETS
STA. 50+84.00	TO STA. 55+60.00

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625	22-00018-00-BR	SANGAMON	32	12
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				








**PROJECT BEGINS
STA 50+84.00**

**PROJECT ENDS
STA 55+60.00**



LEGEND

-  EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, MULCH METHOD 2
-  HEAVY DUTY EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, MULCH METHOD 2
-  STONE RIPRAP, CLASS A3
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

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PLOT DATE = 4/18/2024	DATE - 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
WEST DIVERNON ROAD**

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. 50+84.00 TO STA. 55+60.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	14
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

Benchmark: Brass disk inscribed with "SCHD" set on SW corner of curb of Divernon Road Bridge over Sugar Creek. Elev. 611.12. Relocate prior to removal of bridge.

Existing Structure: S.N. 084-3188 was originally constructed in 1956 and consists of three spans. The end spans are concrete slabs and the main span is a concrete deck supported on WF beams. The abutments are spill thru reinforced concrete caps supported on timber piles and the piers are pile bent reinforced concrete piers supported on precast concrete piles. The back to back of abutment length is 88'-4 1/2" and the out-to-out width is 28'-4". Structure to be replaced with a new structure on existing alignment. Utilities on existing bridge to be relocated by others.

Traffic Control: The road will be closed during construction and a detour will be provided.

No Salvage

INDEX OF SHEETS

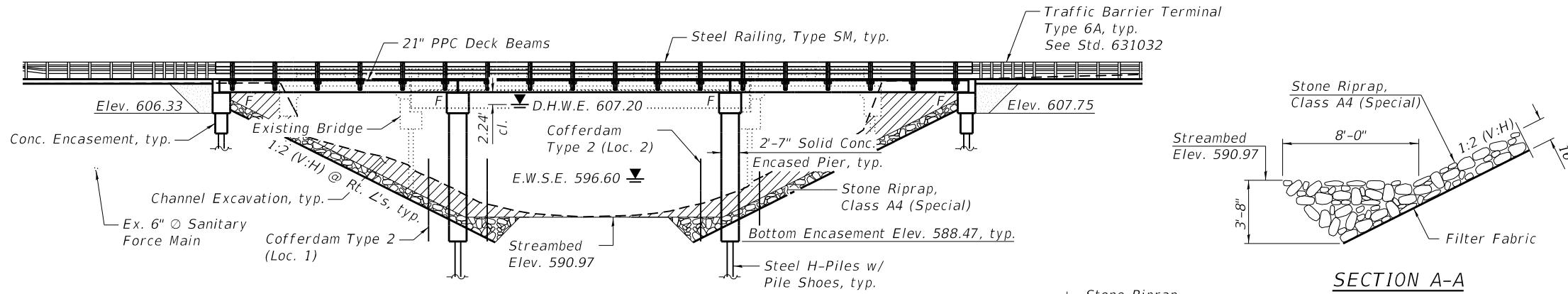
1. General Plan and Elevation
2. General Details
3. Superstructure Details
4. 21"x48" PPC Deck Beam (Spans 1 and 3)
5. 21"x48" PPC Deck Beam Details (Spans 1 and 3)
6. 21"x48" PPC Deck Beam (Span 2)
7. 21"x48" PPC Deck Beam Details (Span 2)
8. Steel Railing, Type SM With Hot-Mix-Asphalt Wearing Surface
9. West Abutment
10. East Abutment
11. Pier 1
12. Pier 2
13. HP Pile Details
14. Soil Boring Logs

DESIGN SCOUR ELEVATION TABLE

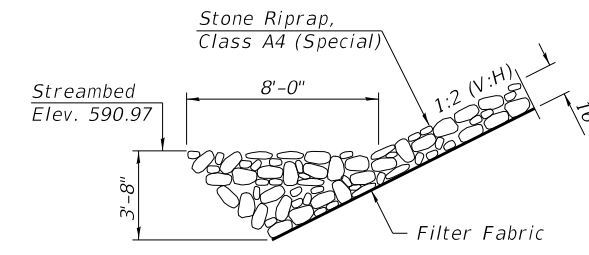
Event / Limit	Design Scour Elevations (ft.)					
	W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113 Abut.	Item 113 Piers
Q100	606.33	562.60	562.60	607.75		
Q200	606.33	560.10	560.10	607.75	8	5
Design	606.33	562.60	562.60	607.75		
Check	606.33	560.10	560.10	607.75		

WATERWAY INFORMATION

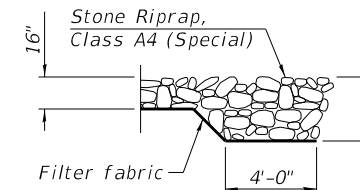
Drainage Area = 38.9 sq. mi.		Existing Overtopping Elev. 610.49 @ Sta. 51+81 Proposed Overtopping Elev. 610.60 @ Sta. 51+53							
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	3,080	841	818	606.3	0.7	0.7	607.0	607.0
Design	20	3,850	915	900	607.2	0.9	0.8	608.1	608.0
Base	100	5,590	920	1,054	608.8	1.3	1.0	610.1	609.8
Max. Calc.	500	7,430	920	1,135	610.3	1.6	1.4	611.9	611.7



ELEVATION



SECTION A-A



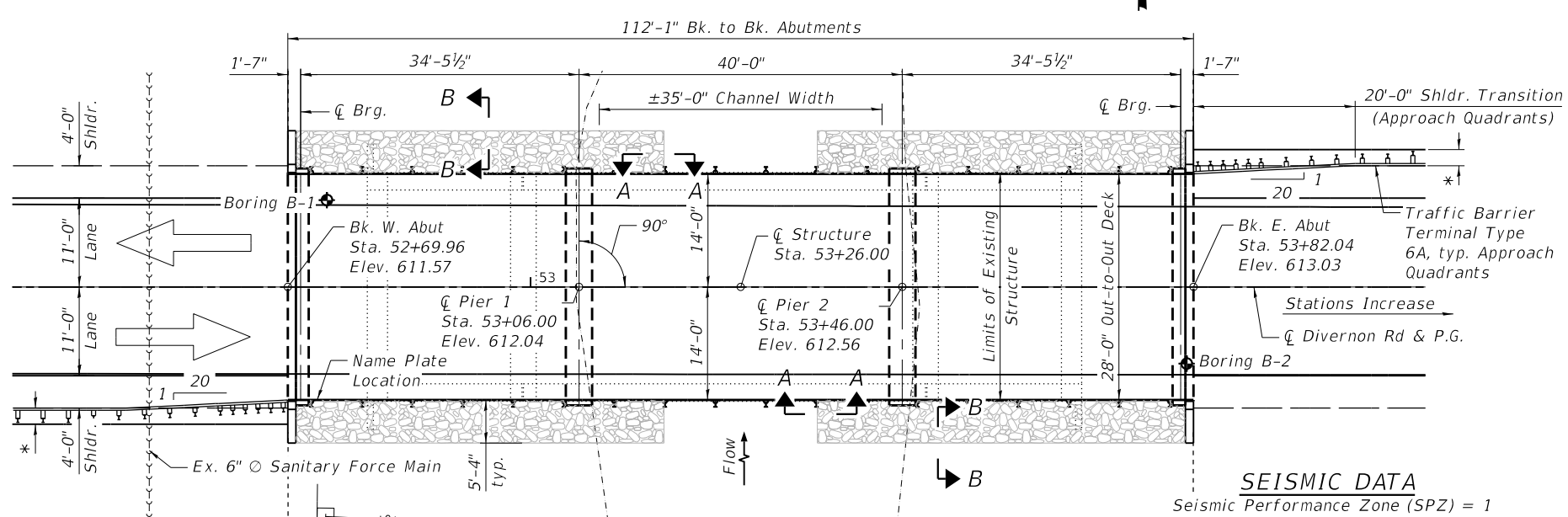
SECTION B-B



Keith W. Benting
 Keith W. Benting, Illinois S.E. 081-004777 Date 3/20/2024
 Expires 11/30/2024

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Specifications"

Note:
 See sheet 2 of 14 for Total Bill of Material and slope treatment details.



PLAN

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

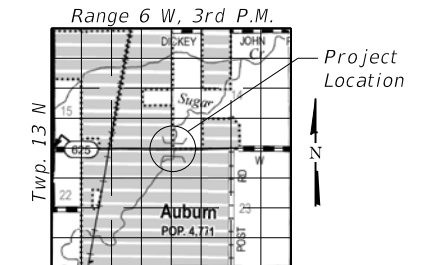
f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50-Piles)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2"φ low lax. strands)
 fpbt = 201,960 psi (1/2"φ low lax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.195 g
 Design Spectral Acceleration at 0.2 sec. (SD5) = 0.234 g
 Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN & ELEVATION
DIVERNON RD OVER SUGAR CREEK
FAS 625 - SECTION 22-00018-00-BR
SANGAMON COUNTY
STATION 53+26.00
STRUCTURE NO. 084-6188

MODEL: Default
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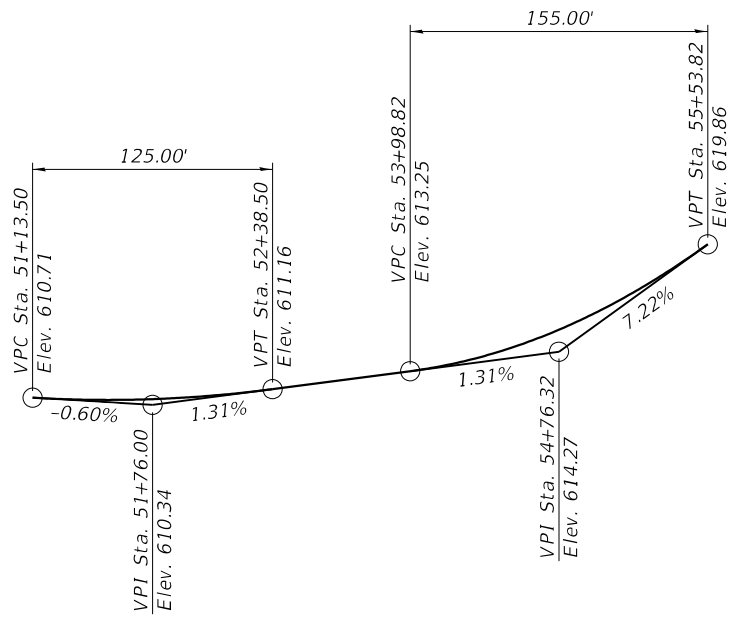


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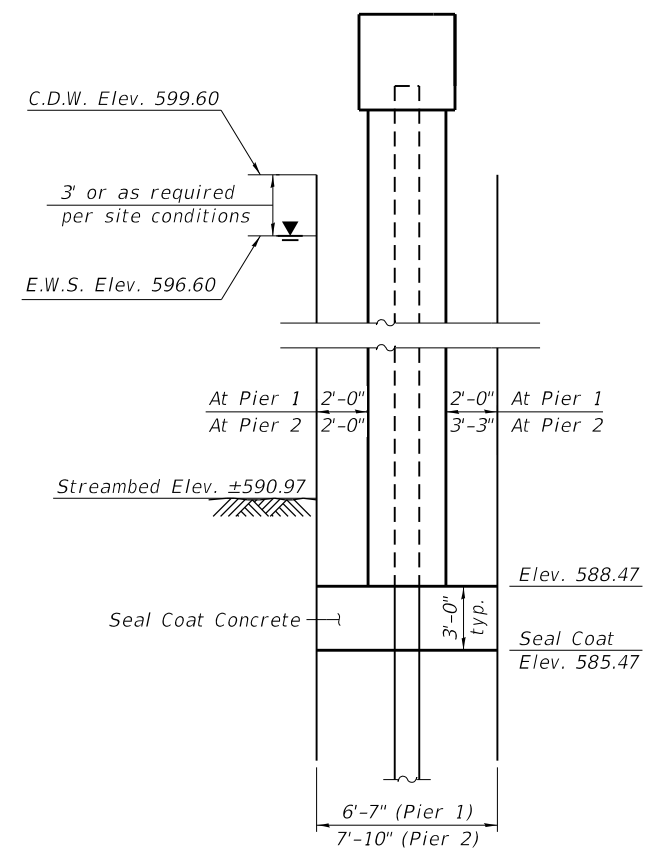
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 084-6188
 SHEET 1 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	15
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



PROFILE GRADE
(Along Centerline of Divernon Rd)



COFFERDAM DETAIL
(Looking North)

Note:
It is the Contractor's responsibility to provide a design for the cofferdam and all other required appurtenances, subject to approval of the Engineer. Plan dimensions of cofferdam are 6'-7" x 32'-4" for Pier 1 and 7'-10" x 32'-4" for Pier 2.

TOTAL BILL OF MATERIAL

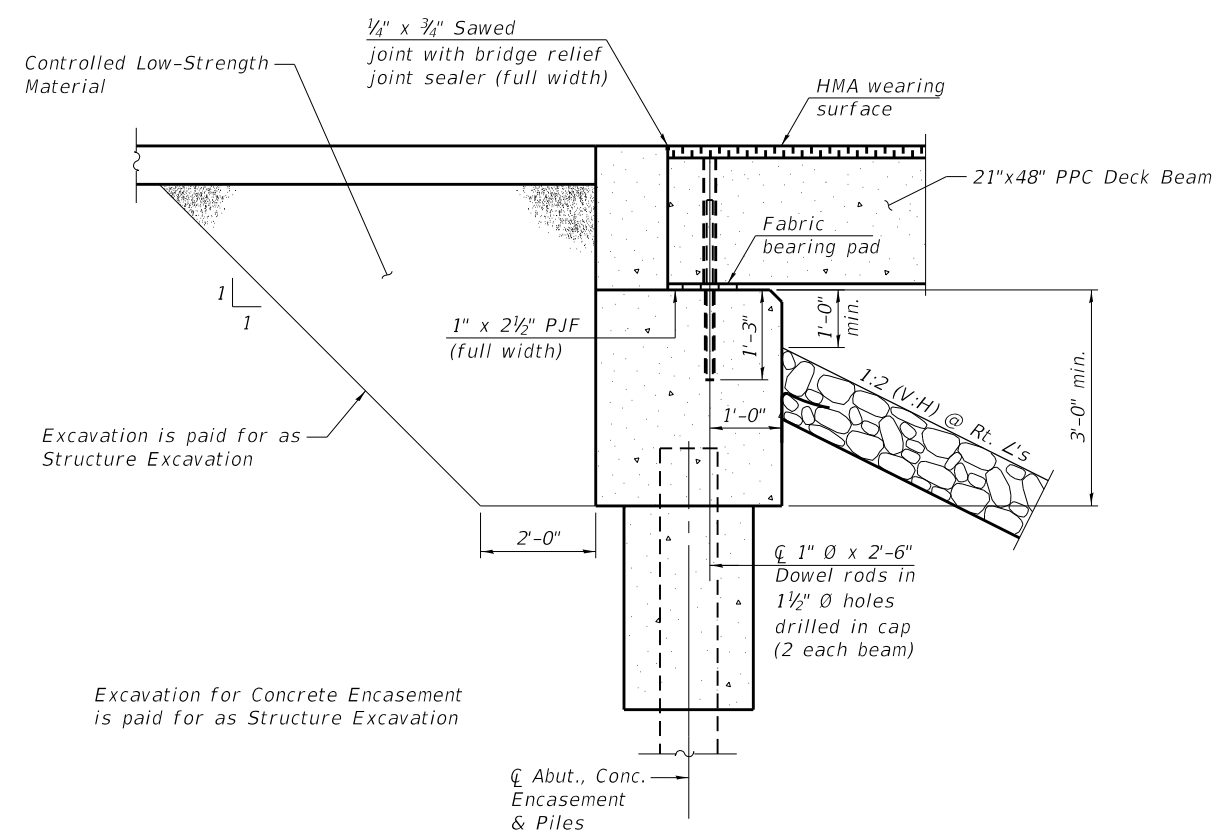
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		541	541
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	45		45
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		148	148
Cofferdam Excavation	Cu. Yd.		96	96
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Concrete Structures	Cu. Yd.		145.1	145.1
Seal Coat Concrete	Cu. Yd.		51.8	51.8
Concrete Encasement	Cu. Yd.		3.4	3.4
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3,078		3,078
Reinforcement Bars, Epoxy Coated	Pound		11,670	11,670
Steel Railing, Type SM	Foot	221		221
Furnishing Steel Piles HP10x42	Foot		1,021	1,021
Driving Piles	Foot		1,021	1,021
Test Pile Steel HP10x42	Each		2	2
Pile Shoes	Each		22	22
Name Plates	Each	1		1
Portland Cement Mortar Fairing Course	Foot	661		661
Concrete Sealer	Sq. Ft.		835	835
Controlled Low-Strength Material	Cu. Yd.		46	46
Stone Riprap, Class A4 (Special)	Ton		331	331

SUGAR CREEK
BUILT 202_ BY
CITY OF AUBURN
SEC. 22-00018-00-BR
STATION 53+26.00
LOADING HL-93
STR. NO. 084-6188

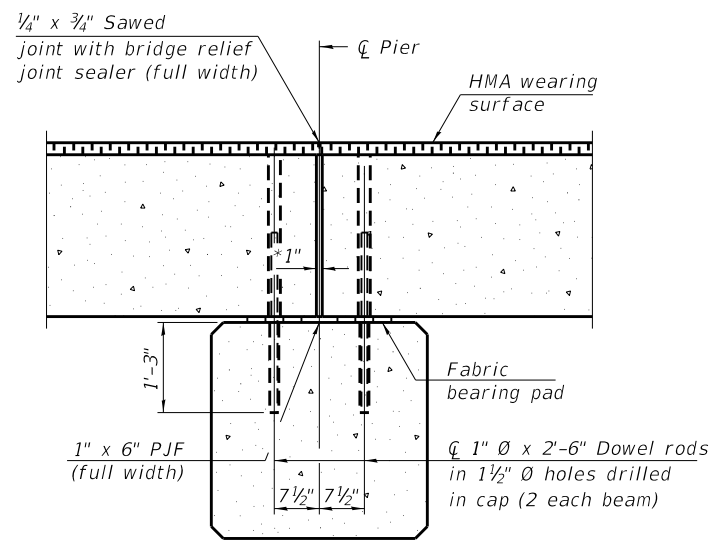
NAME PLATE
See Std. 515001

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Concrete sealer shall be applied to the seat and front face of the abutments and the seat and faces of the piers.
Controlled Low-Strength Material shall be in accordance with Section 593 and Section 1019, Mix 2 of the Standard Specifications.
Care must be taken to not overpour the Controlled Low-Strength Material behind the abutments to ensure proper post embedment for the Traffic Barrier Terminal. The use of form boards parallel to the ends of the abutment caps is recommended.
Utilities on existing bridge to be relocated by others.
Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.



SECTION THRU ABUTMENT



SECTION THRU PIER

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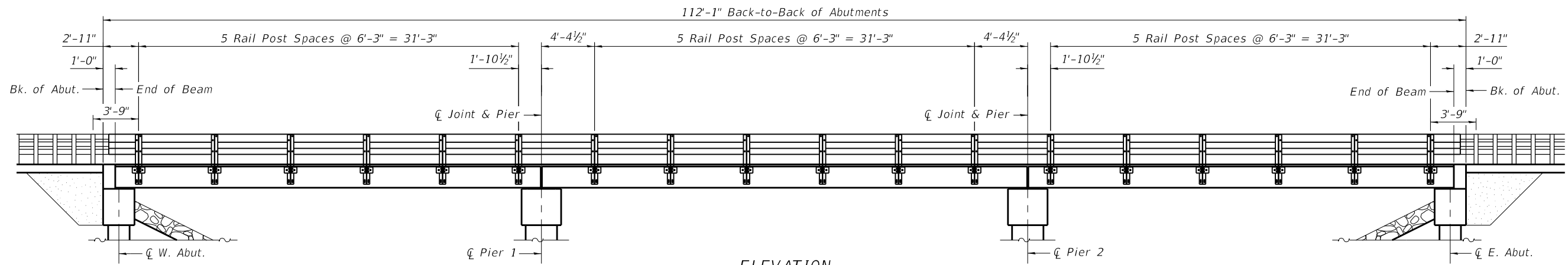
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

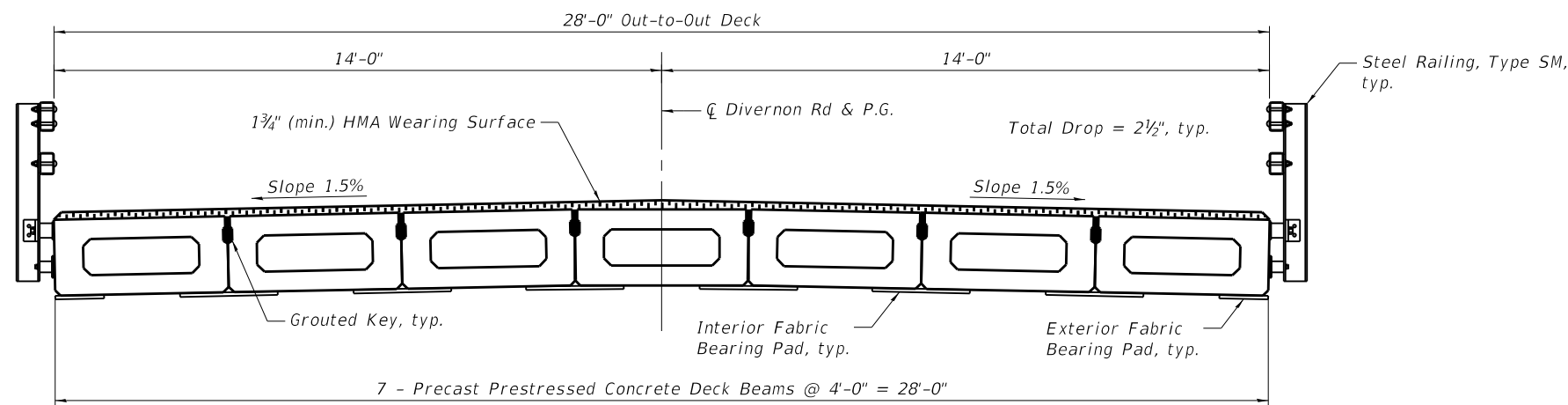
GENERAL DETAILS
STRUCTURE NO. 084-6188

SHEET 2 OF 14 SHEETS

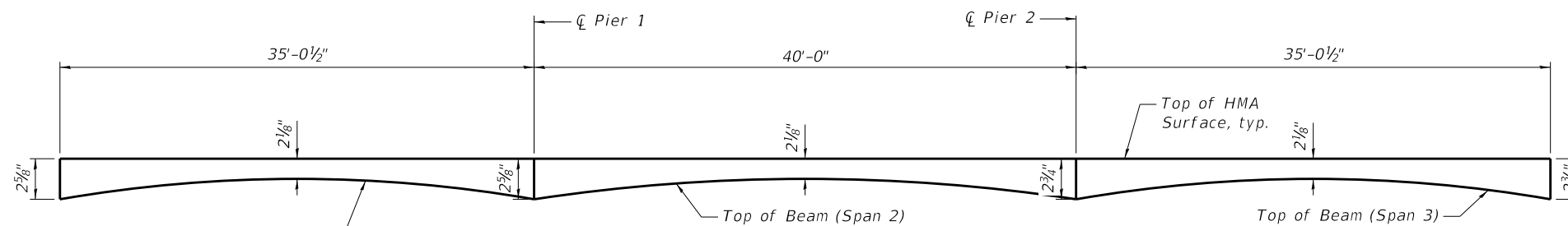
F.A.S. RTE. 625	SECTION 22-00018-00-BR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 16
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



ELEVATION
 (Showing Rail Post Spacing)
 See sheet 8 of 14 for Railing Details



CROSS SECTION
 (Looking East)



ANTICIPATED HMA WEARING SURFACE PROFILE
 (For information only)

Notes:
 See sheets 4 thru 7 of 14 for Deck Beam details and Bill of Material.
 See sheets 5 and 7 of 14 for Fabric Bearing Pad details.
 See sheet 8 of 14 for Steel Railing details.

BILL OF MATERIAL

Item	Unit	Total
Hot-Mix Asphalt Surface Course, 1L-9.5, Mix "C", N50	Tons	45

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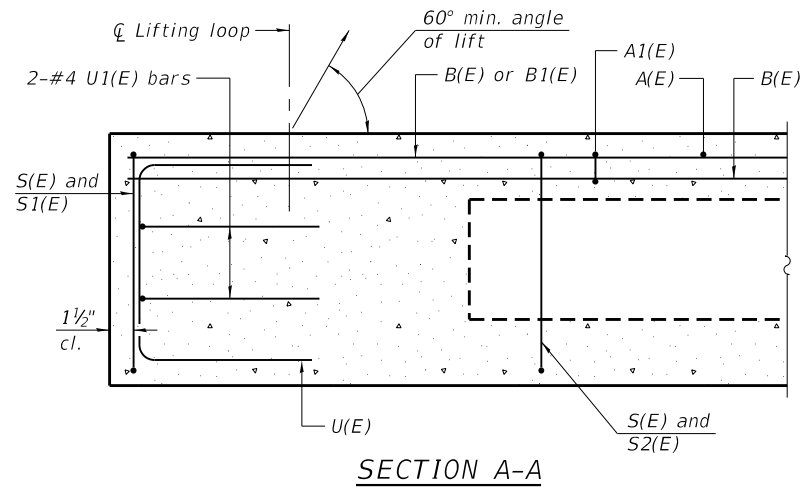
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 084-6188

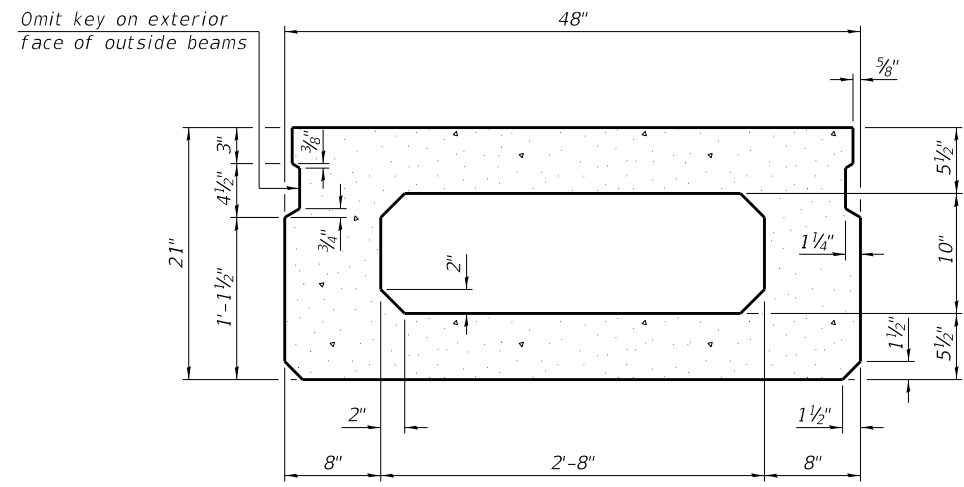
SHEET 3 OF 14 SHEETS

F.A.S. RTE. 625	SECTION 22-00018-00-BR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 17
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

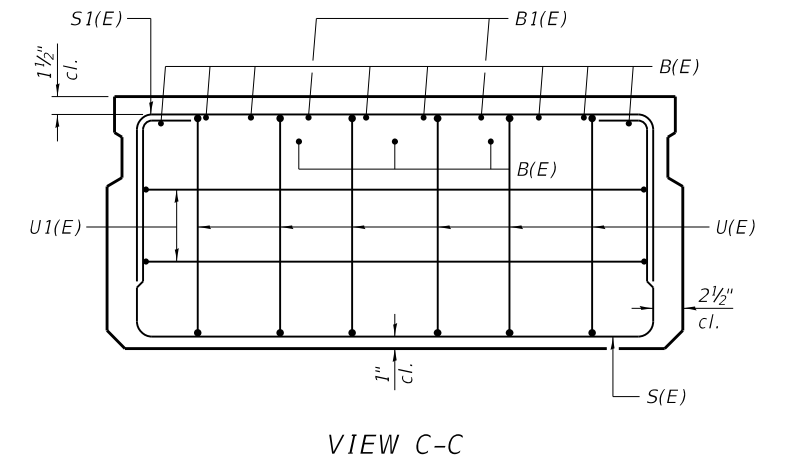
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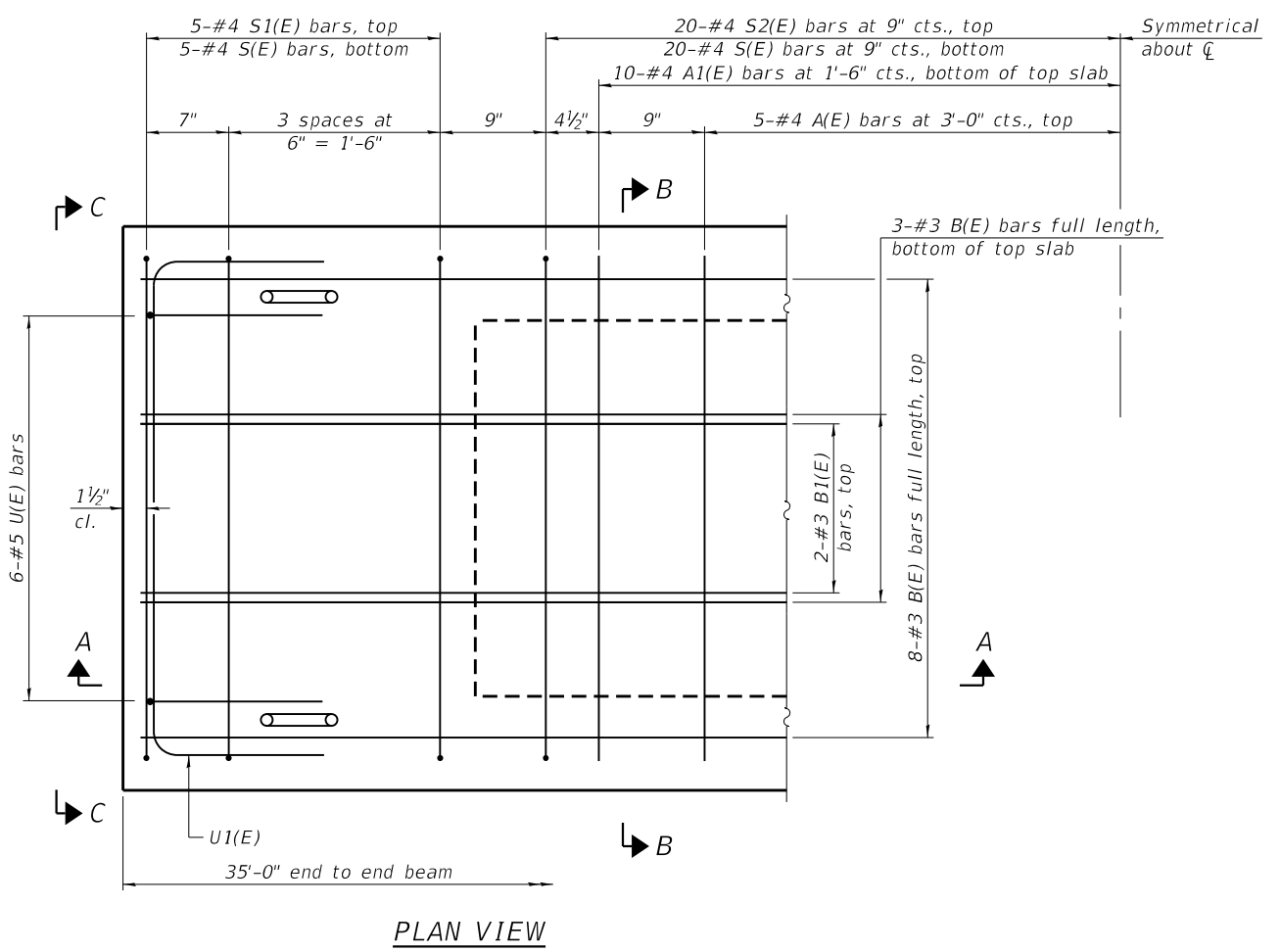
SECTION A-A



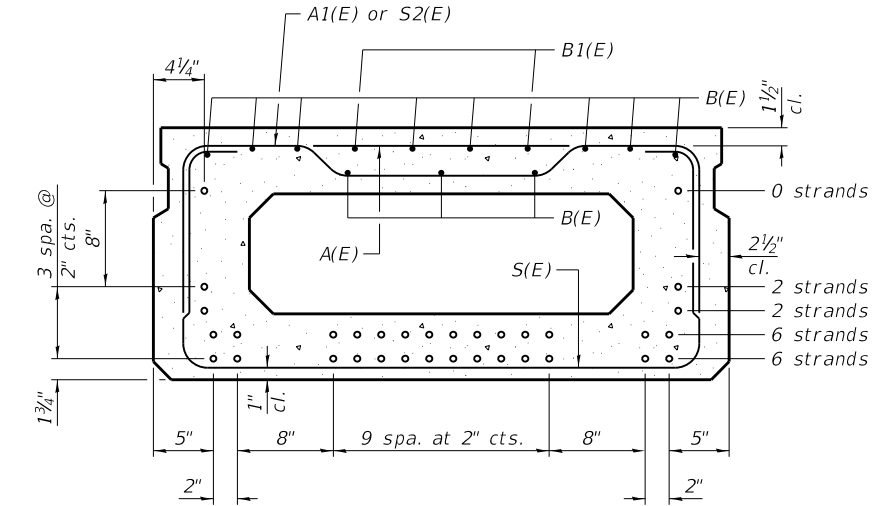
SECTION B-B
 (Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
 (Showing reinforcement and permissible strand locations)

Note:
 Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
 (For information only)

Bar	No.	Size	Length	Shape
A(E)	10	#4	3'-7"	—
A1(E)	20	#4	3'-10"	—
B(E)	11	#3	34'-8"	—
B1(E)	4	#3	10'-0"	—
S(E)	50	#4	7'-5"	⌋
S1(E)	10	#4	5'-11"	⌋
S2(E)	40	#4	6'-2"	⌋
U(E)	12	#5	4'-0"	⌋
U1(E)	4	#4	6'-0"	⌋

Note:
 See sheet 5 of 14 for additional details and Bill of Material.

Note:
 Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-2148-0

1-1-2020



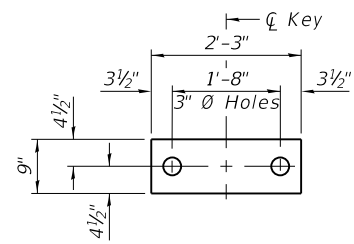
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

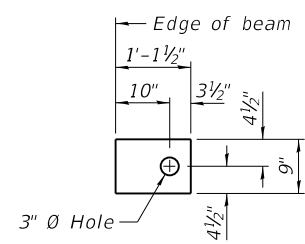
21" x 48" PPC DECK BEAM (SPANS 1 & 3)
 STRUCTURE NO. 084-6188

SHEET 4 OF 14 SHEETS

F.A.S. RTE. 625	SECTION 22-00018-00-BR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 18
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



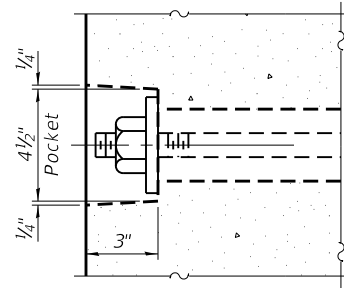
FABRIC BEARING PAD
(Interior)



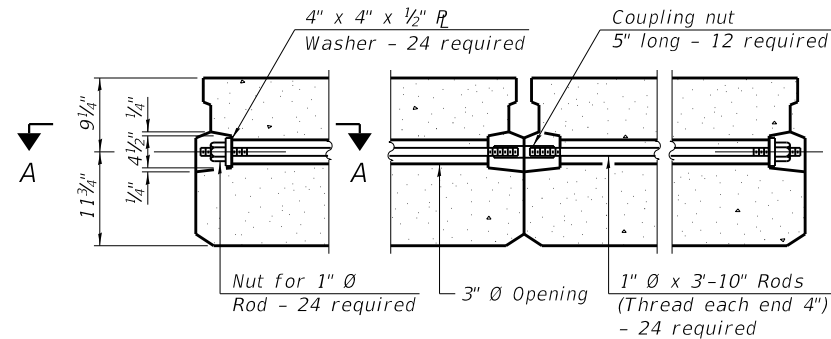
FABRIC BEARING PAD
(Exterior)

FIXED

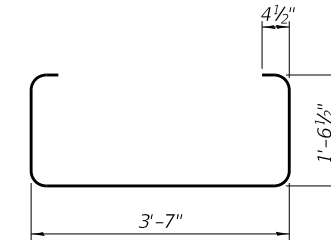
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



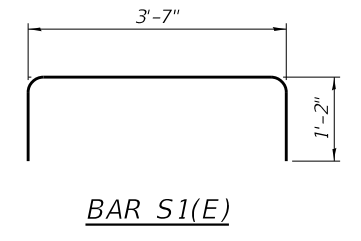
SECTION A-A



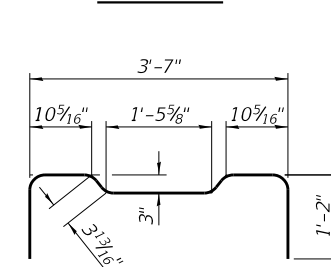
TYPICAL TRANSVERSE TIE ASSEMBLY



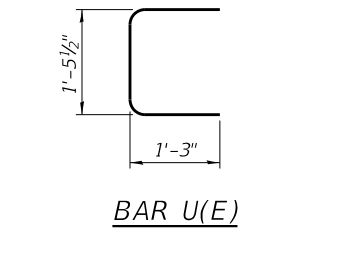
BAR S(E)



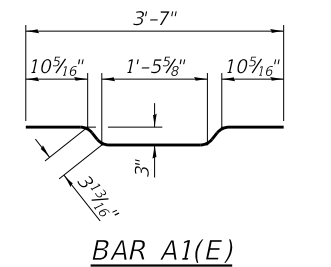
BAR S1(E)



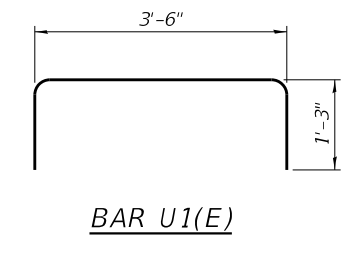
BAR S2(E)



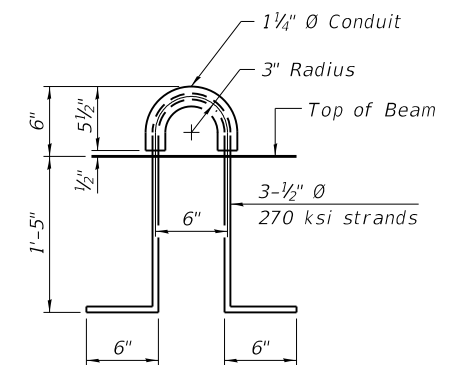
BAR U(E)



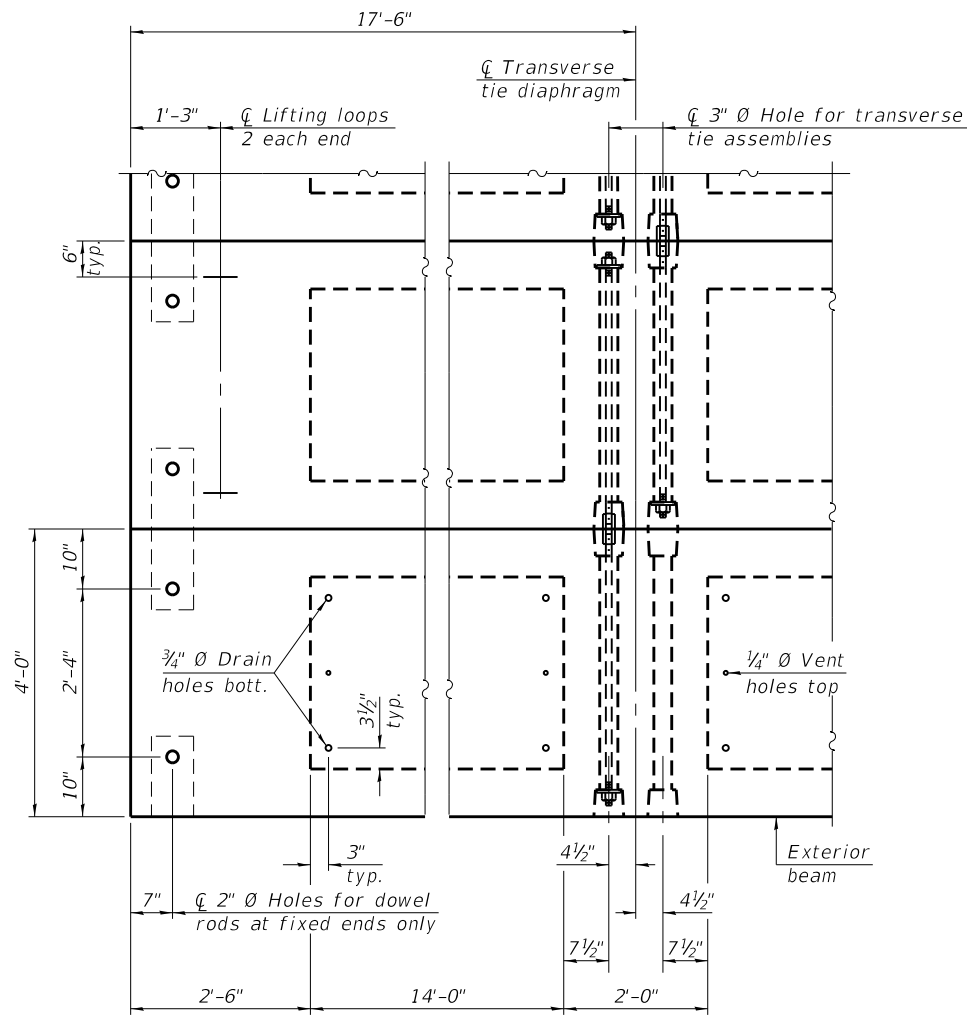
BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL



PLAN VIEW

Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1960
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PDD-2148-0

1-1-2020



QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

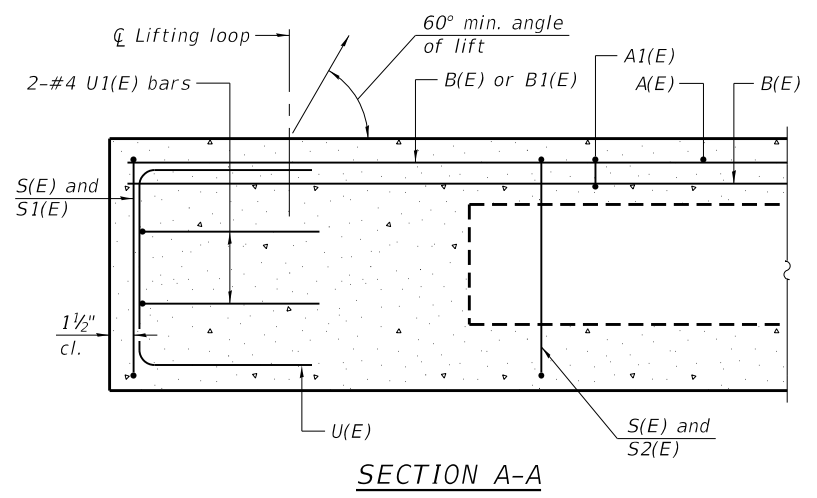
21" x 48" PPC DECK BEAM DETAILS (SPANS 1 & 3)
STRUCTURE NO. 084-6188

SHEET 5 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	19
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

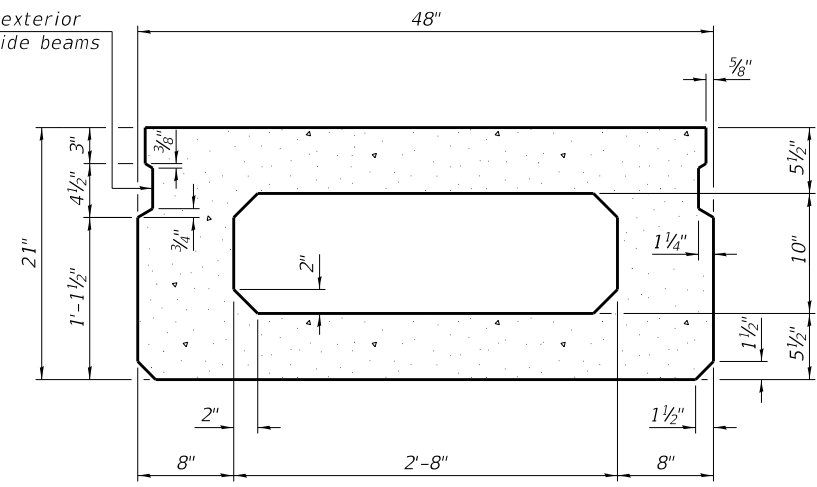
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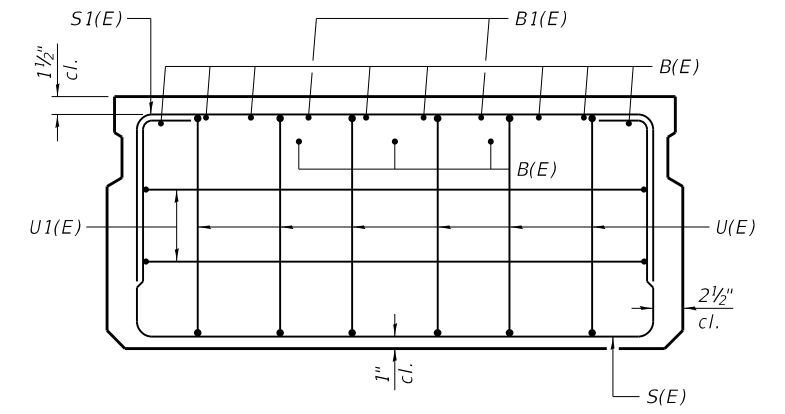


SECTION A-A

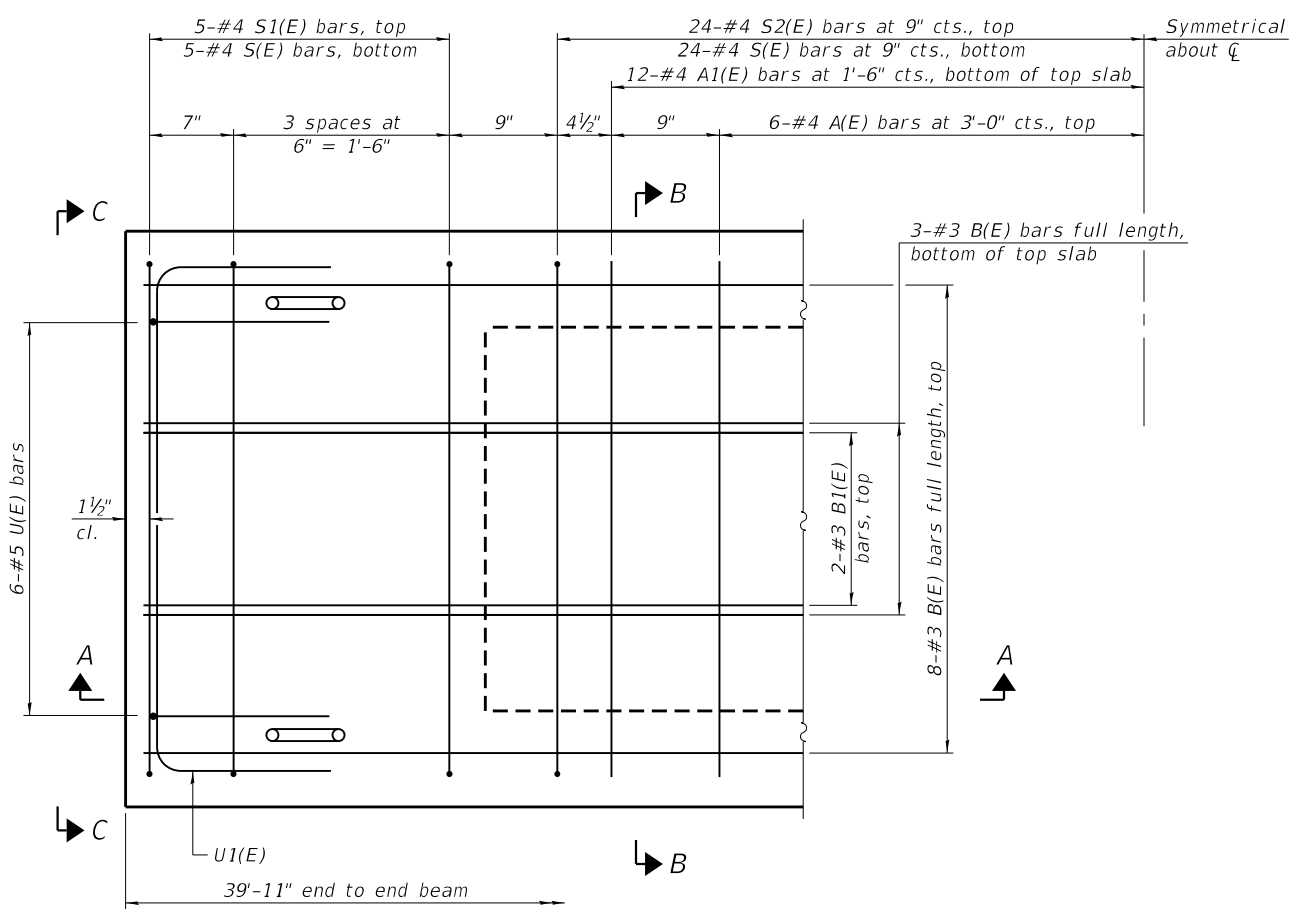
Omit key on exterior face of outside beams



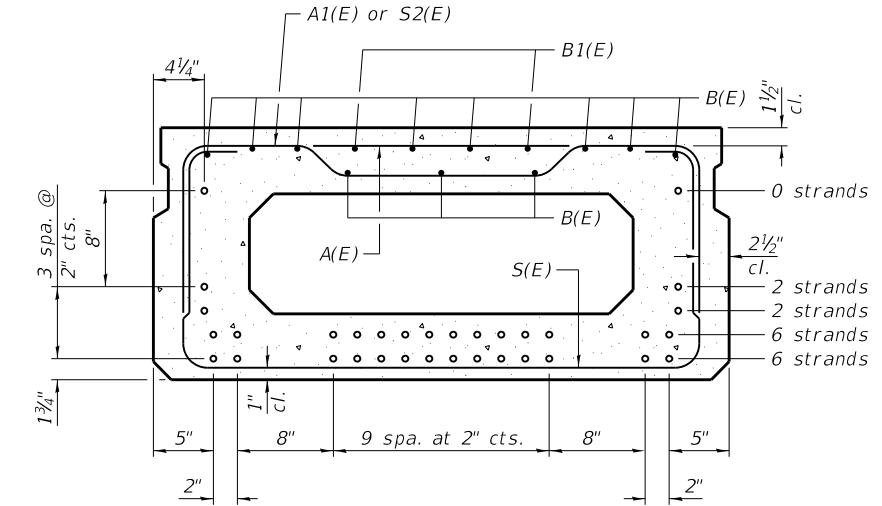
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note:
 Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
 (For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	—
B(E)	11	#3	39'-7"	—
B1(E)	4	#3	10'-0"	—
S(E)	58	#4	7'-5"	⌋
S1(E)	10	#4	5'-11"	⌋
S2(E)	48	#4	6'-2"	⌋
U(E)	12	#5	4'-0"	⌋
U1(E)	4	#4	6'-0"	⌋

Note:
 See sheet 7 of 14 for additional details and Bill of Material.

Note:
 Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-2148-0

1-1-2020



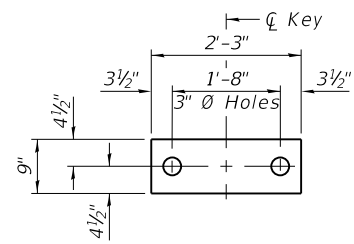
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

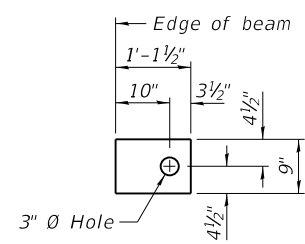
21" x 48" PPC DECK BEAM (SPAN 2)
 STRUCTURE NO. 084-6188

SHEET 6 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	20
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



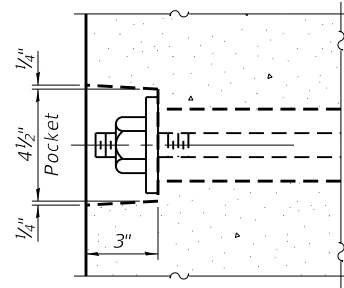
FABRIC BEARING PAD
(Interior)



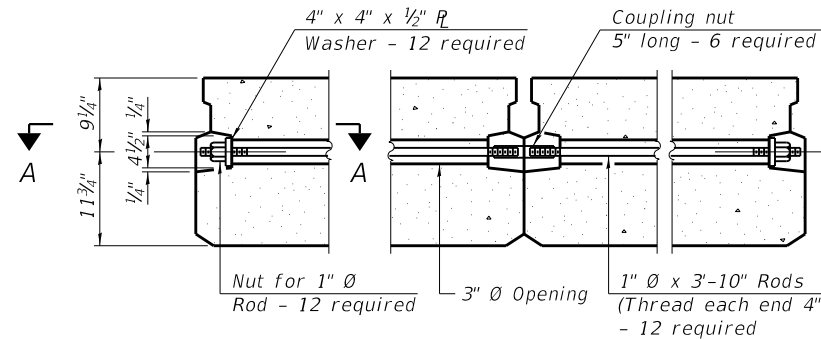
FABRIC BEARING PAD
(Exterior)

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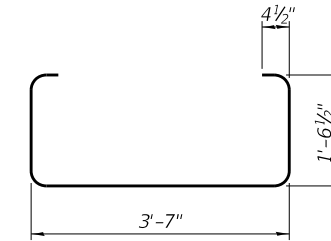
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



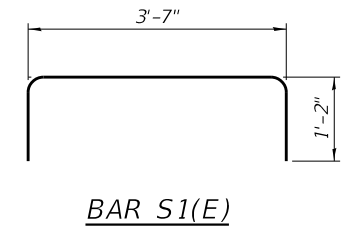
SECTION A-A



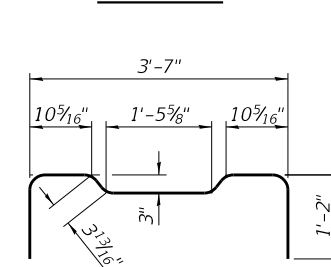
TYPICAL TRANSVERSE TIE ASSEMBLY



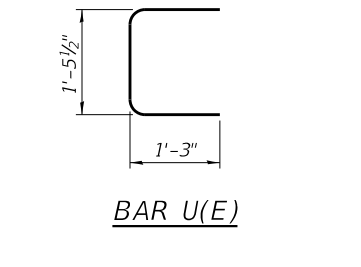
BAR S(E)



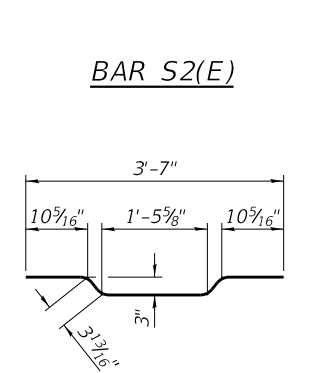
BAR S1(E)



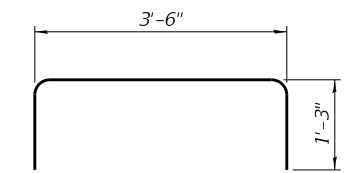
BAR S2(E)



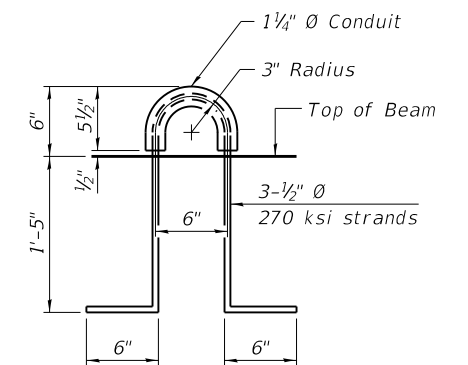
BAR U(E)



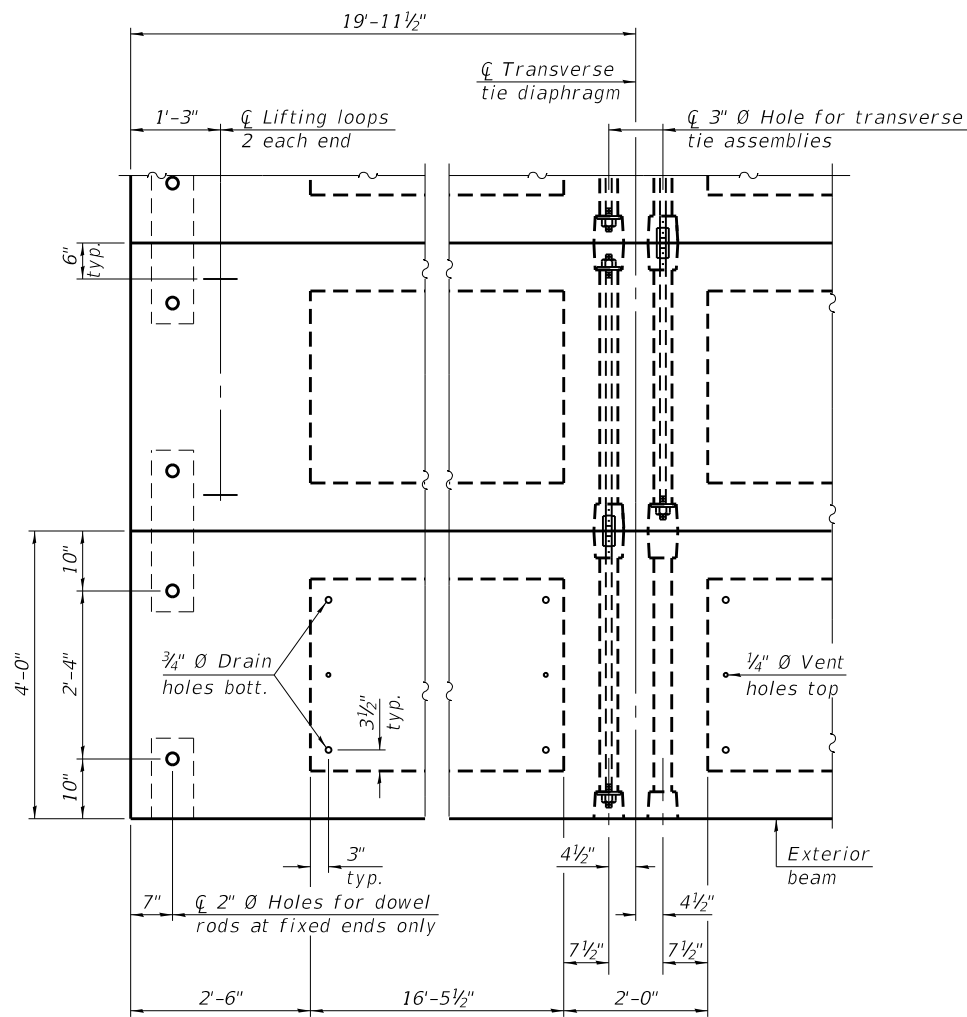
BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL



PLAN VIEW

Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1118
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PDD-2148-0

1-1-2020



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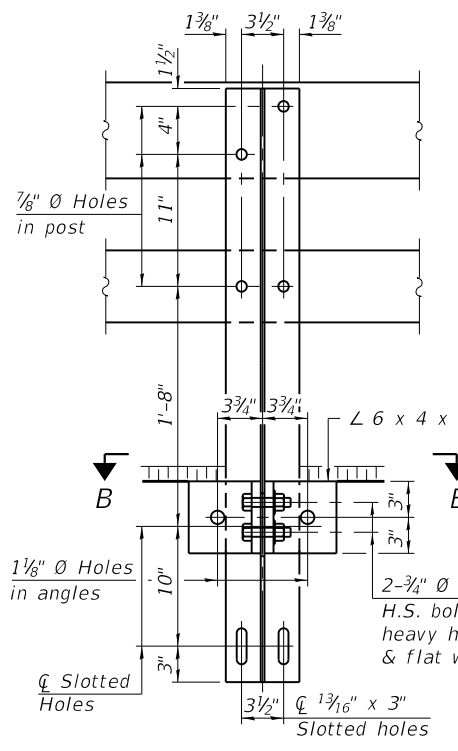
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS (SPAN 2)
STRUCTURE NO. 084-6188

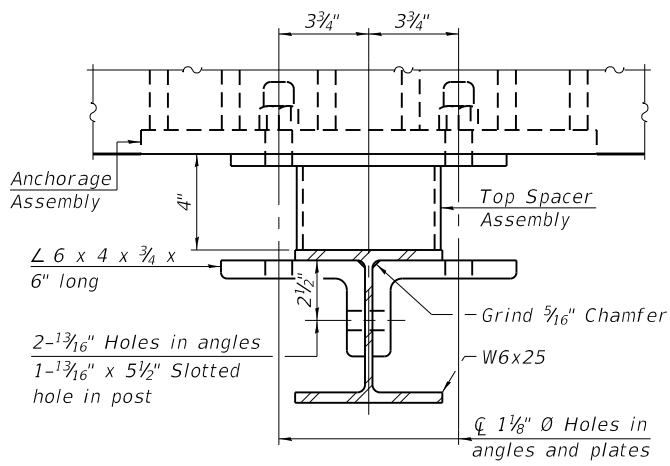
SHEET 7 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	21
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

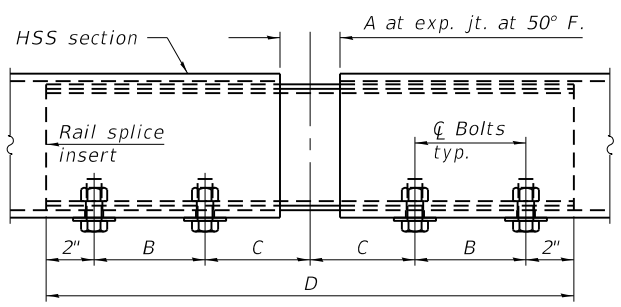
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SECTION A-A

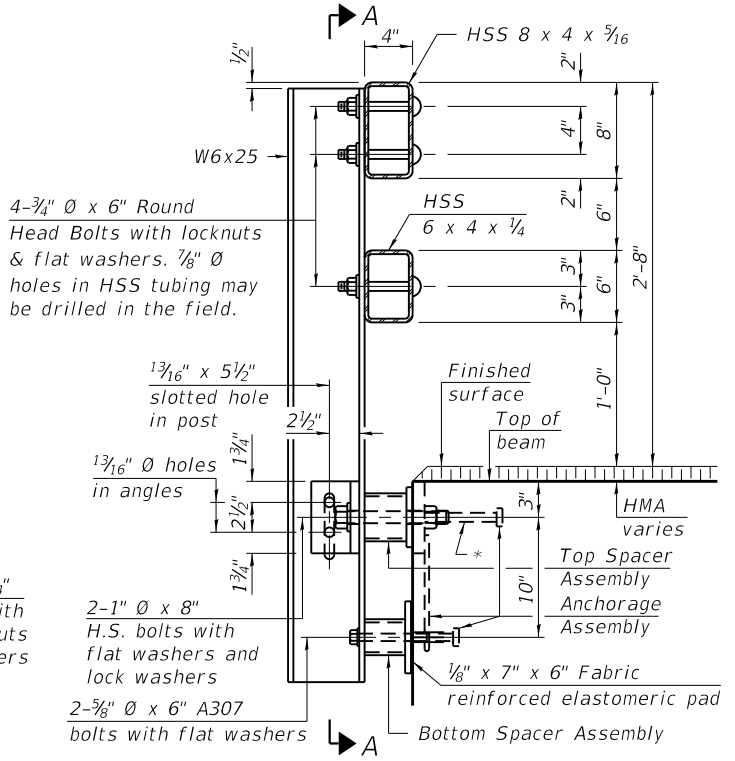


SECTION B-B



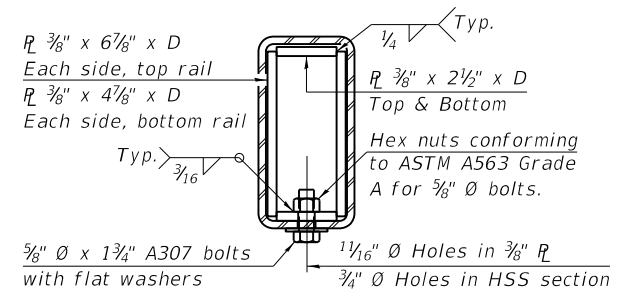
RAILING CRITERIA

MASH 2016 Test Level	2
Railing Weight (plf)	90
Min f'c (psi)	5,000
Max Post Spacing	6'-3"
HMA thickness range (in)	1 1/4" - 3 3/8"

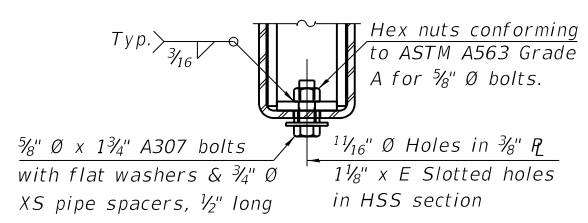


SECTION AT RAIL POST

* The outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchorage assembly. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



SECTION AT RAIL SPLICE

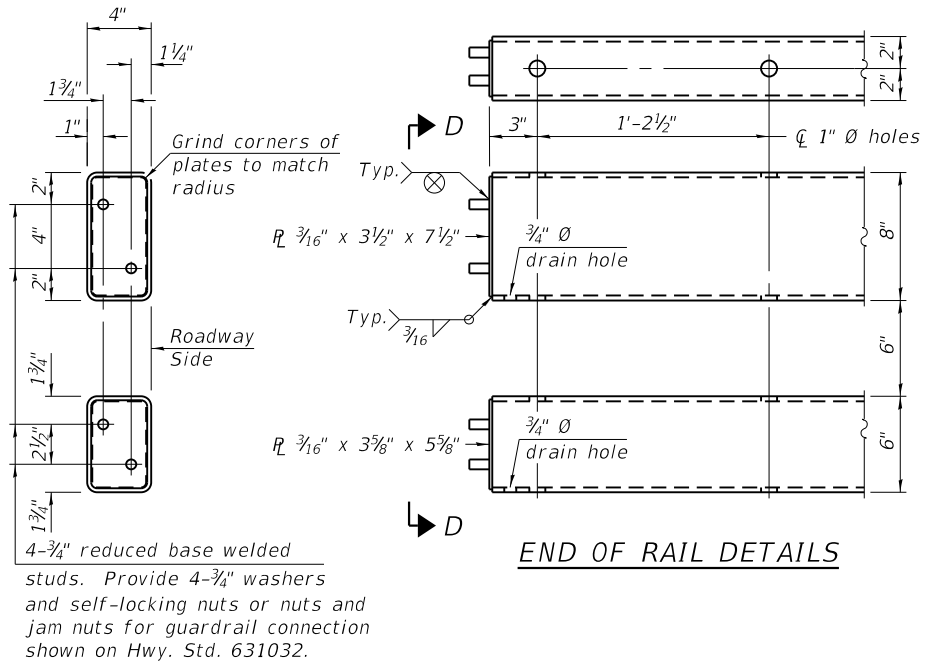


RAIL SPLICE CONNECTION AT EXPANSION JT.

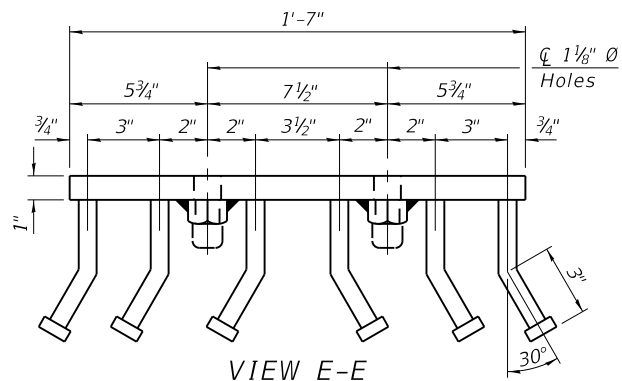
SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 1/16"

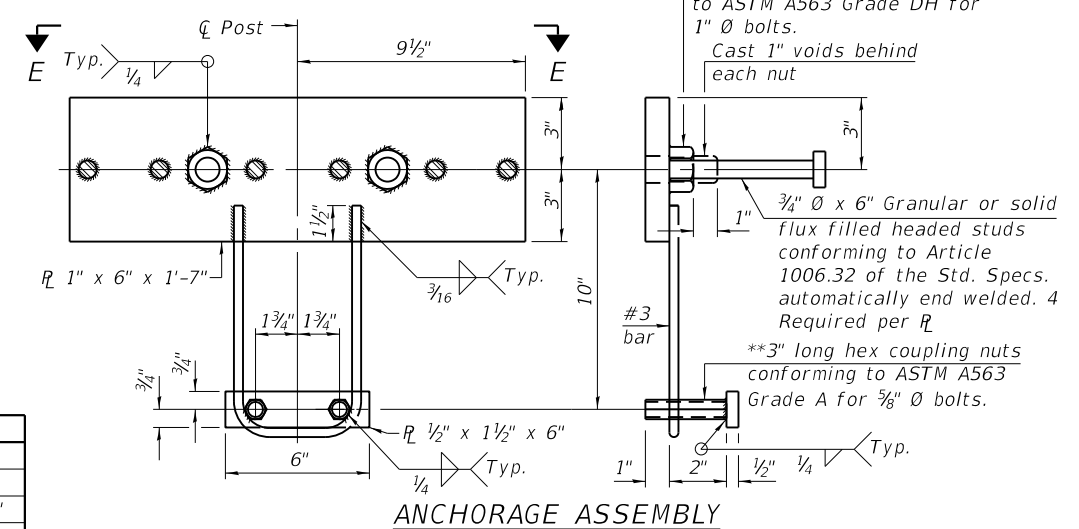
T = ; total movement along centerline of roadway at expansion joint.



VIEW D-D

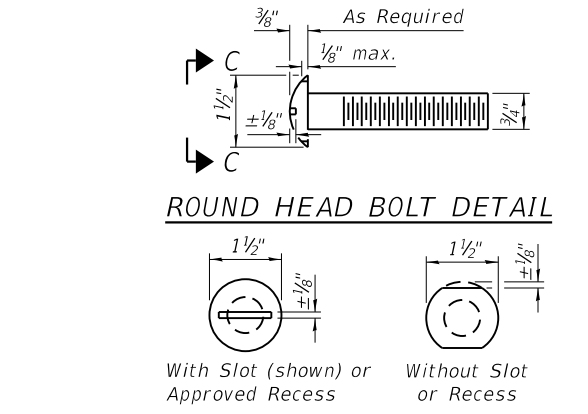


VIEW E-E



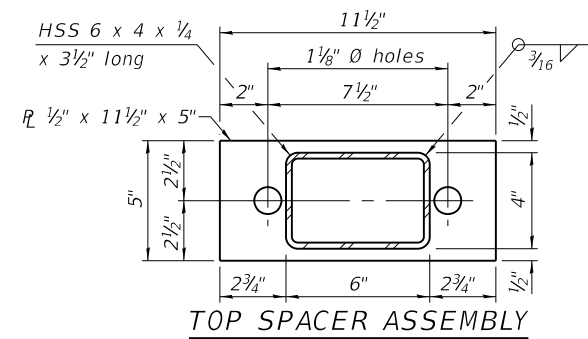
ANCHORAGE ASSEMBLY

** Threaded areas shall be plugged or blocked off during casting of concrete.

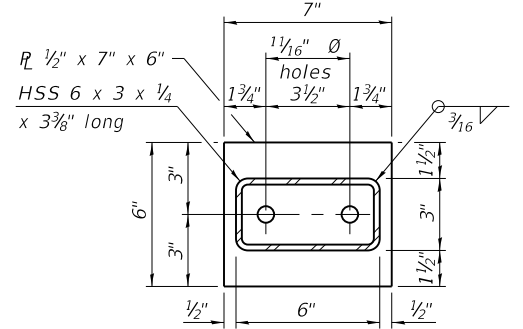


ROUND HEAD BOLT DETAIL

VIEW C-C



TOP SPACER ASSEMBLY



BOTTOM SPACER ASSEMBLY

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	221

Notes:
 A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type SM.
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.

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R-34HMAWS 10-12-2021



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DESIGNED - KWB
 CHECKED - ZLD
 DRAWN - ZLD
 CHECKED - MDC

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH HMA WEARING SURFACE
 STRUCTURE NO. 084-6188

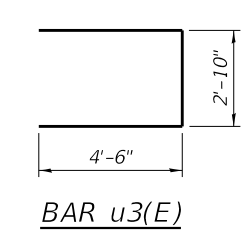
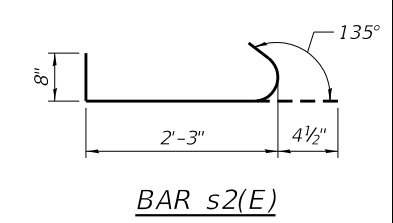
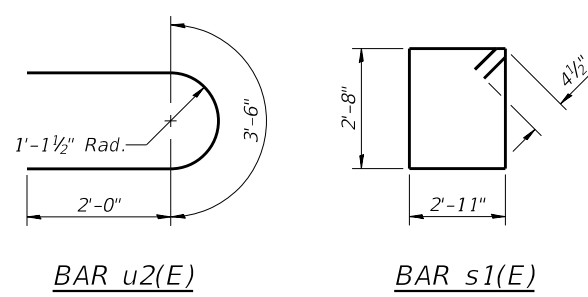
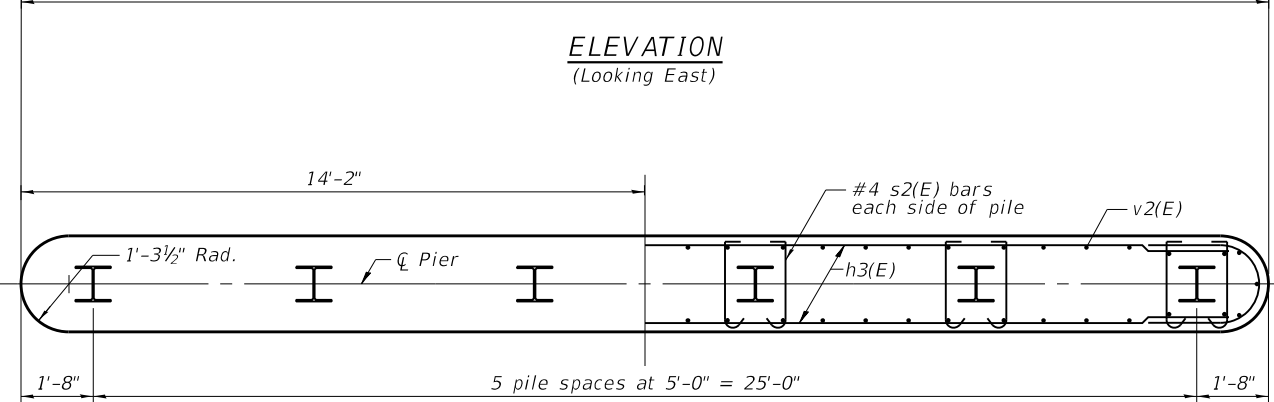
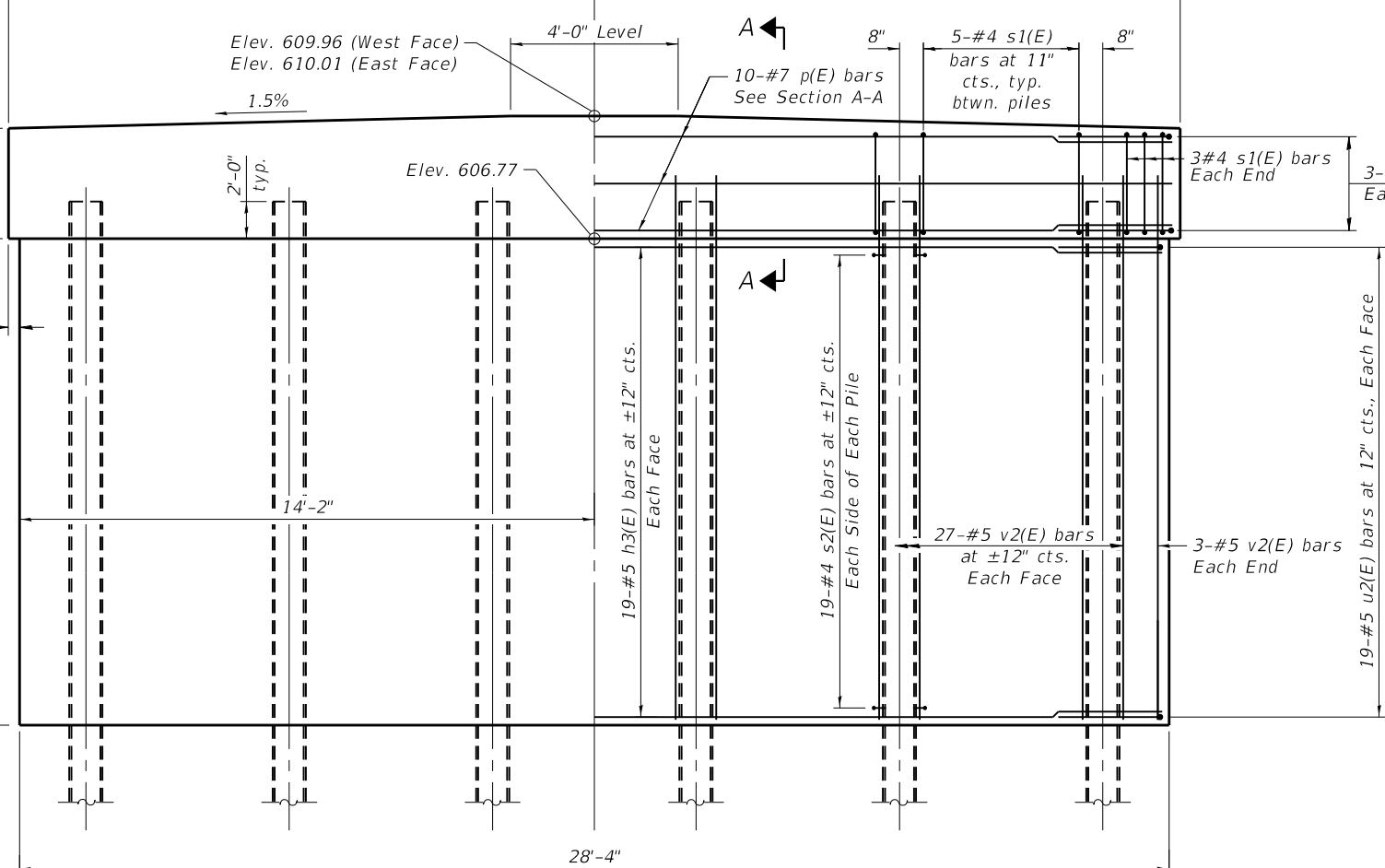
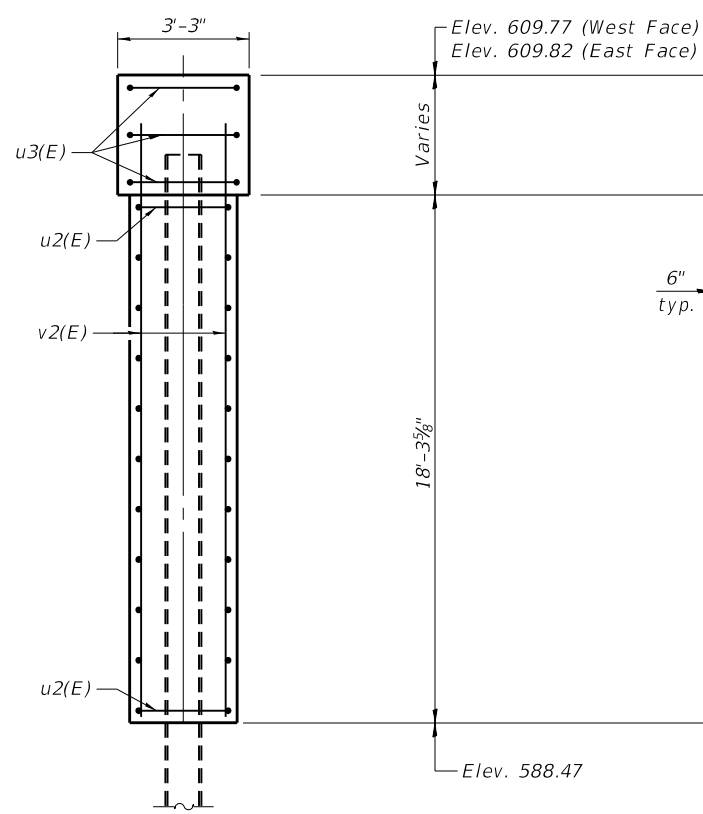
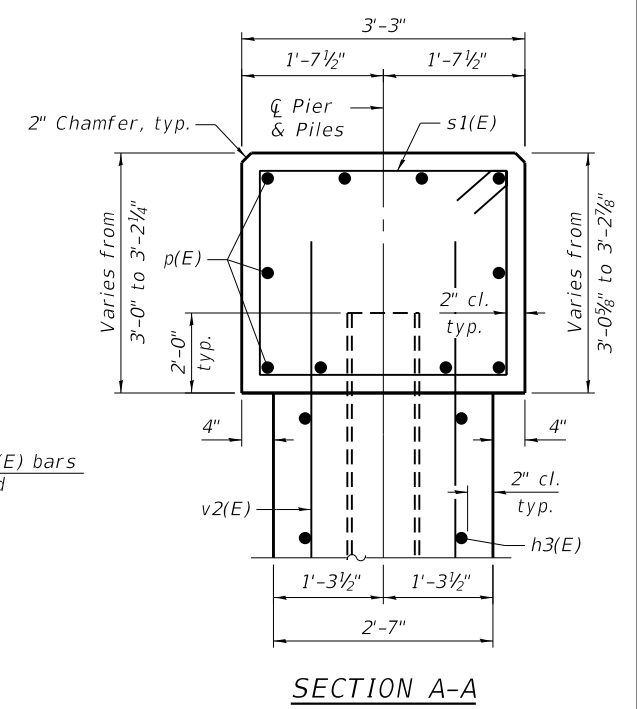
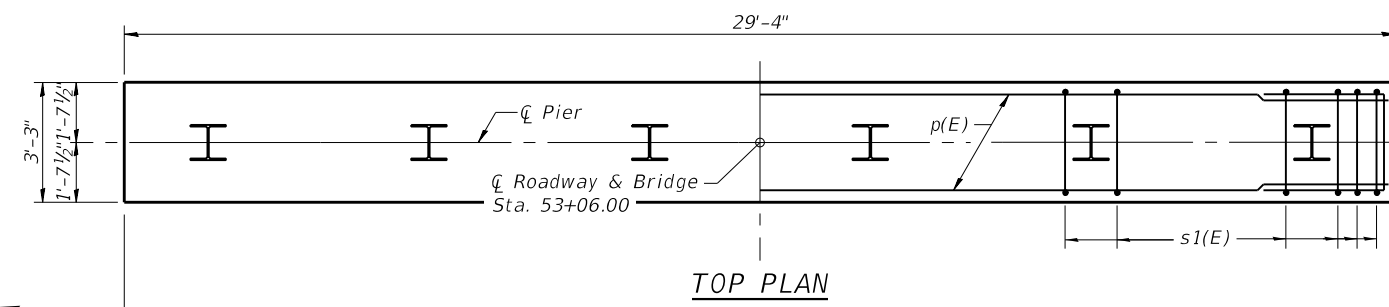
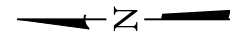
SHEET 8 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	22
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

Notes:
Space reinforcement in cap to miss anchor bolts.
For details of piles, see sheet 13 of 14.

PILE DATA

Type: HP10x42 w/ pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Est. Length: 51 ft
No. Production Piles: 6
No. Test Piles: 0



BILL OF MATERIAL - PIER 1

Bar	No.	Size	Length	Shape
h3(E)	38	#5	25'-9"	—
p(E)	10	#7	29'-0"	—
s1(E)	31	#4	11'-11"	□
s2(E)	228	#4	3'-4"	┌
u2(E)	38	#5	7'-6"	U
u3(E)	6	#6	11'-10"	U
v2(E)	60	#5	19'-8"	—
Cofferdam Excavation			Cu. Yd.	44
Cofferdam (Type 2) (Location - 1)			Each	1
Concrete Structures			Cu. Yd.	59.3
Reinforcement Bars, Epoxy Coated			Pound	4,010
Furnishing Steel Piles HP10x42			Foot	306
Driving Piles			Foot	306
Pile Shoes			Each	6
Concrete Sealer			Sq. Ft.	279

MODEL: Default
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4/18/2024 9:01:27 AM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 084-6188

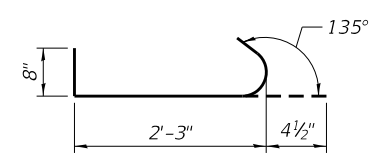
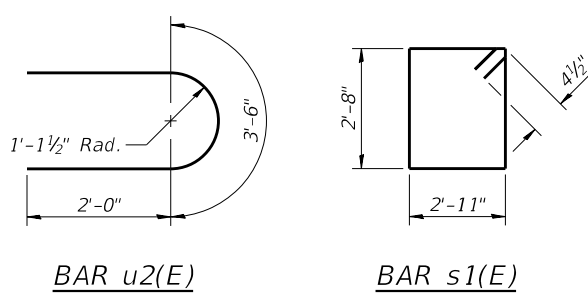
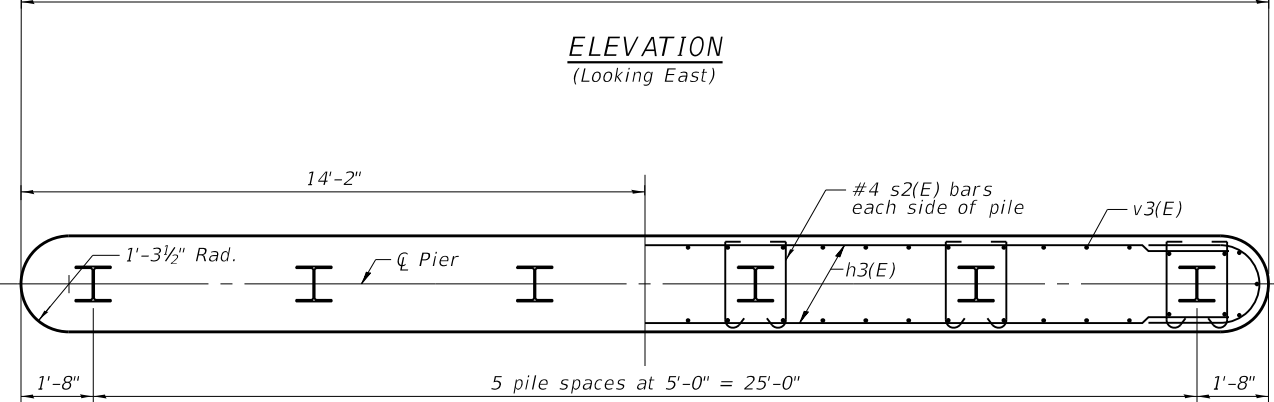
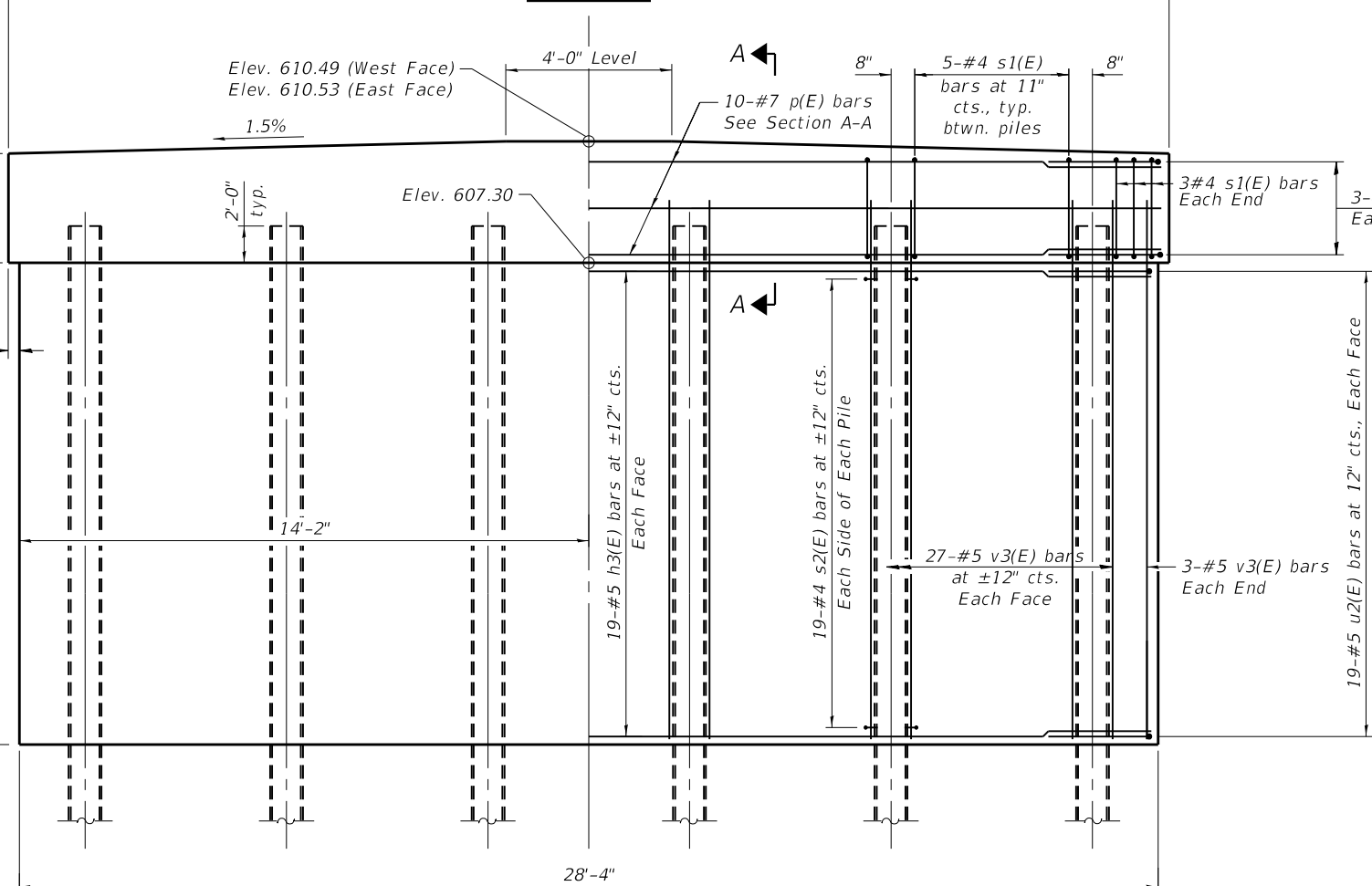
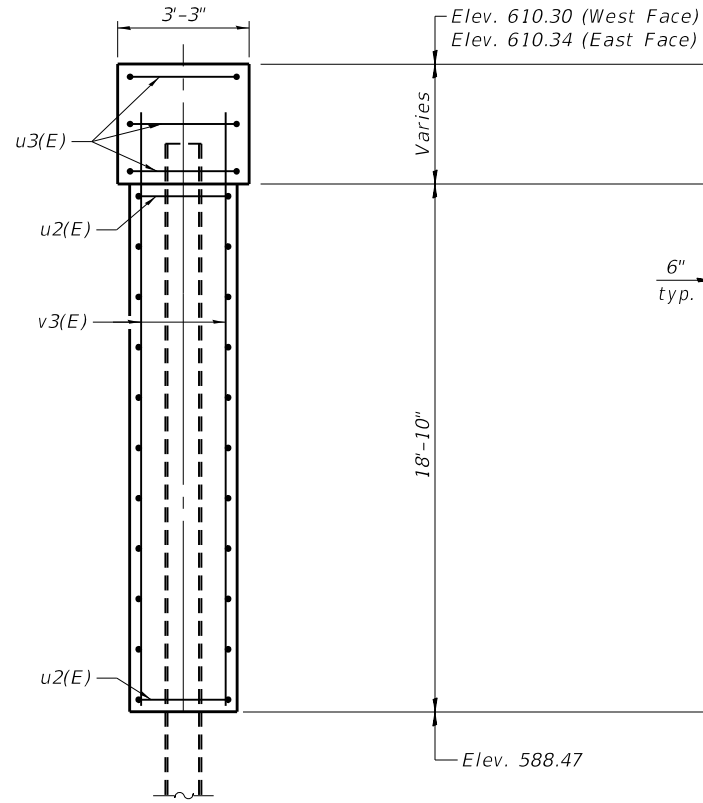
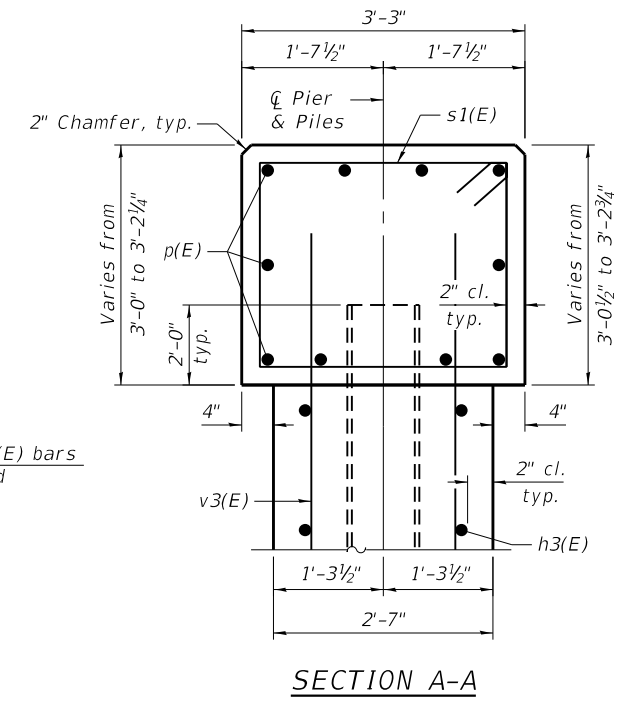
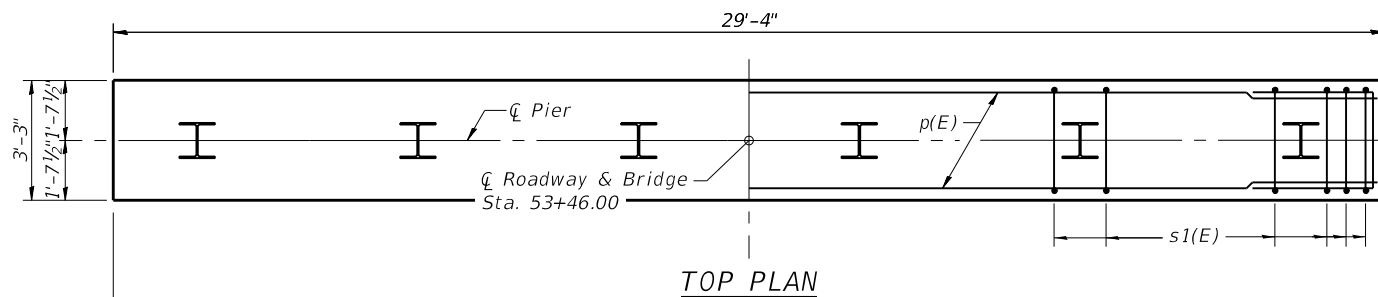
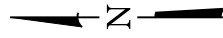
SHEET 11 OF 14 SHEETS

F.A.S. RTE. 625	SECTION 22-00018-00-BR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 25
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

Notes:
Space reinforcement in cap to miss anchor bolts.
For details of piles, see sheet 13 of 14.

PILE DATA

Type: HP10x42 w/ pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Est. Length: 51 ft
No. Production Piles: 5
No. Test Piles: 1



BILL OF MATERIAL - PIER 2

Bar	No.	Size	Length	Shape
h3(E)	38	#5	25'-9"	—
p(E)	10	#7	29'-0"	—
s1(E)	31	#4	11'-11"	□
s2(E)	228	#4	3'-4"	U
u2(E)	38	#5	7'-6"	U
u3(E)	6	#6	11'-10"	U
v3(E)	60	#5	20'-2"	—
Cofferdam Excavation		Cu. Yd.	52	
Cofferdam (Type 2) (Location - 2)		Each	1	
Concrete Structures		Cu. Yd.	60.7	
Reinforcement Bars, Epoxy Coated		Pound	4,040	
Furnishing Steel Piles HP10x42		Foot	255	
Driving Piles		Foot	255	
Test Pile Steel HP10x42		Each	1	
Pile Shoes		Each	6	
Concrete Sealer		Sq. Ft.	279	

MODEL: Default
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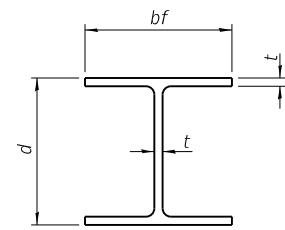
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2
STRUCTURE NO. 084-6188**

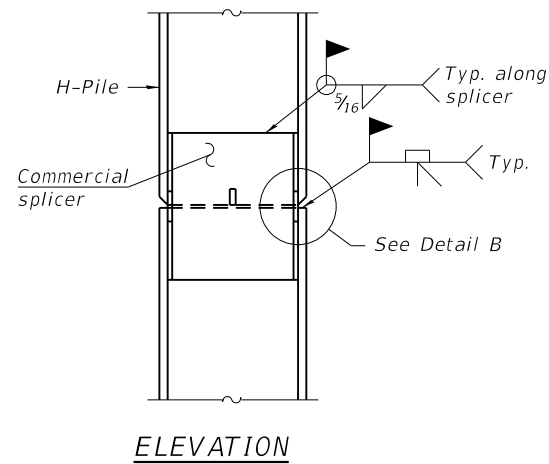
SHEET 12 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	26
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

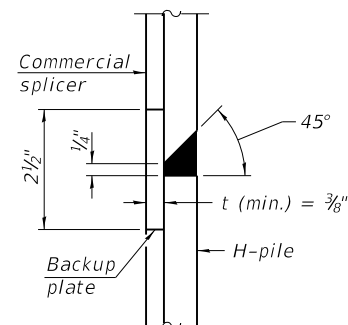


STEEL PILE TABLE

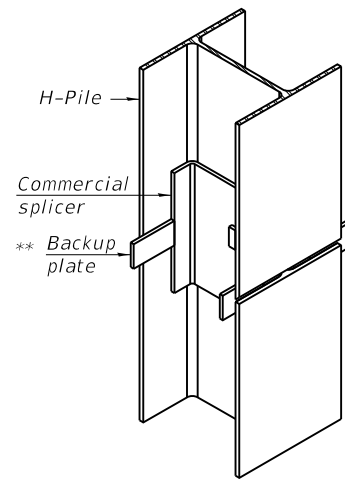
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

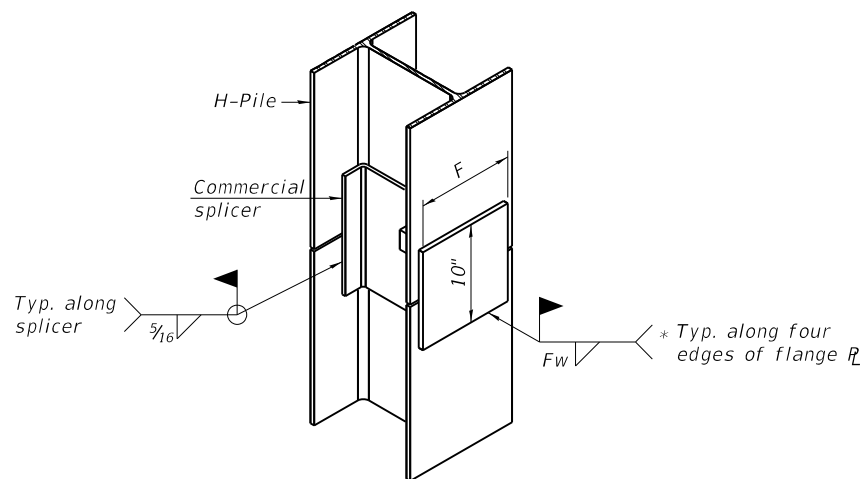


DETAIL "B"



ISOMETRIC VIEW

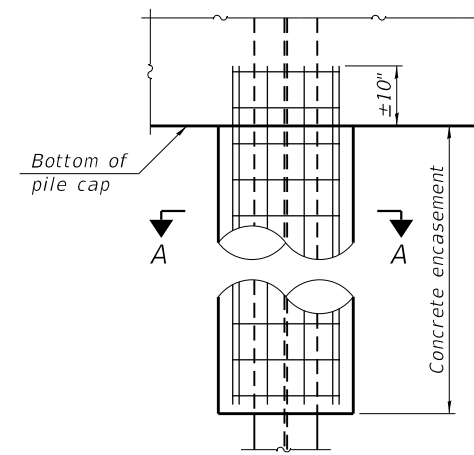
WELDED COMMERCIAL SPLICE



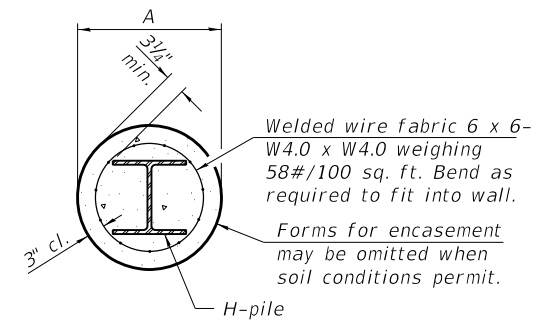
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

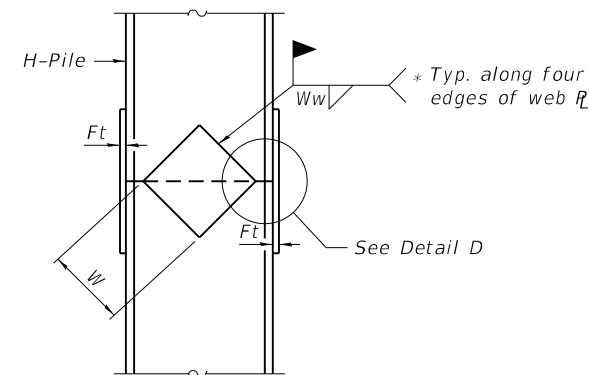


ELEVATION

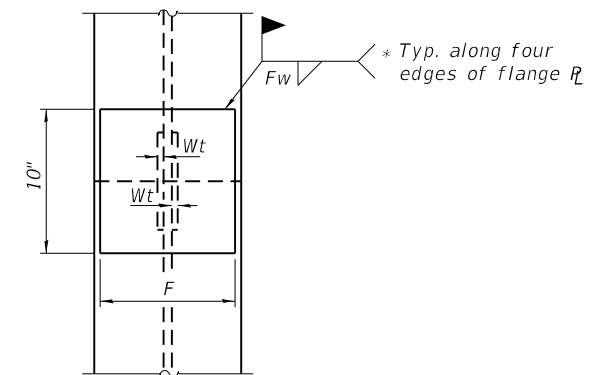


SECTION A-A

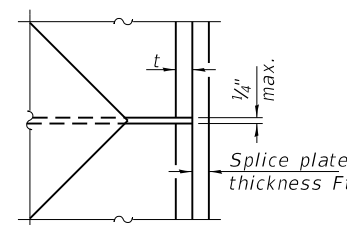
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)



ELEVATION



END VIEW



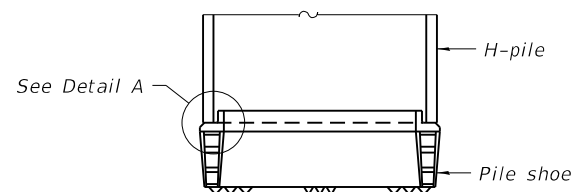
DETAIL D

WELDED PLATE FIELD SPLICE

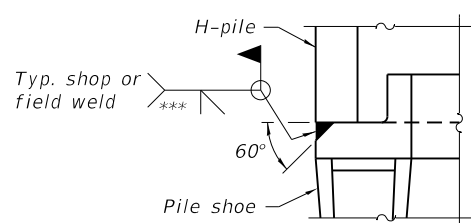
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

SHOE ATTACHMENT



ELEVATION



DETAIL A

F-HP 1-1-2020

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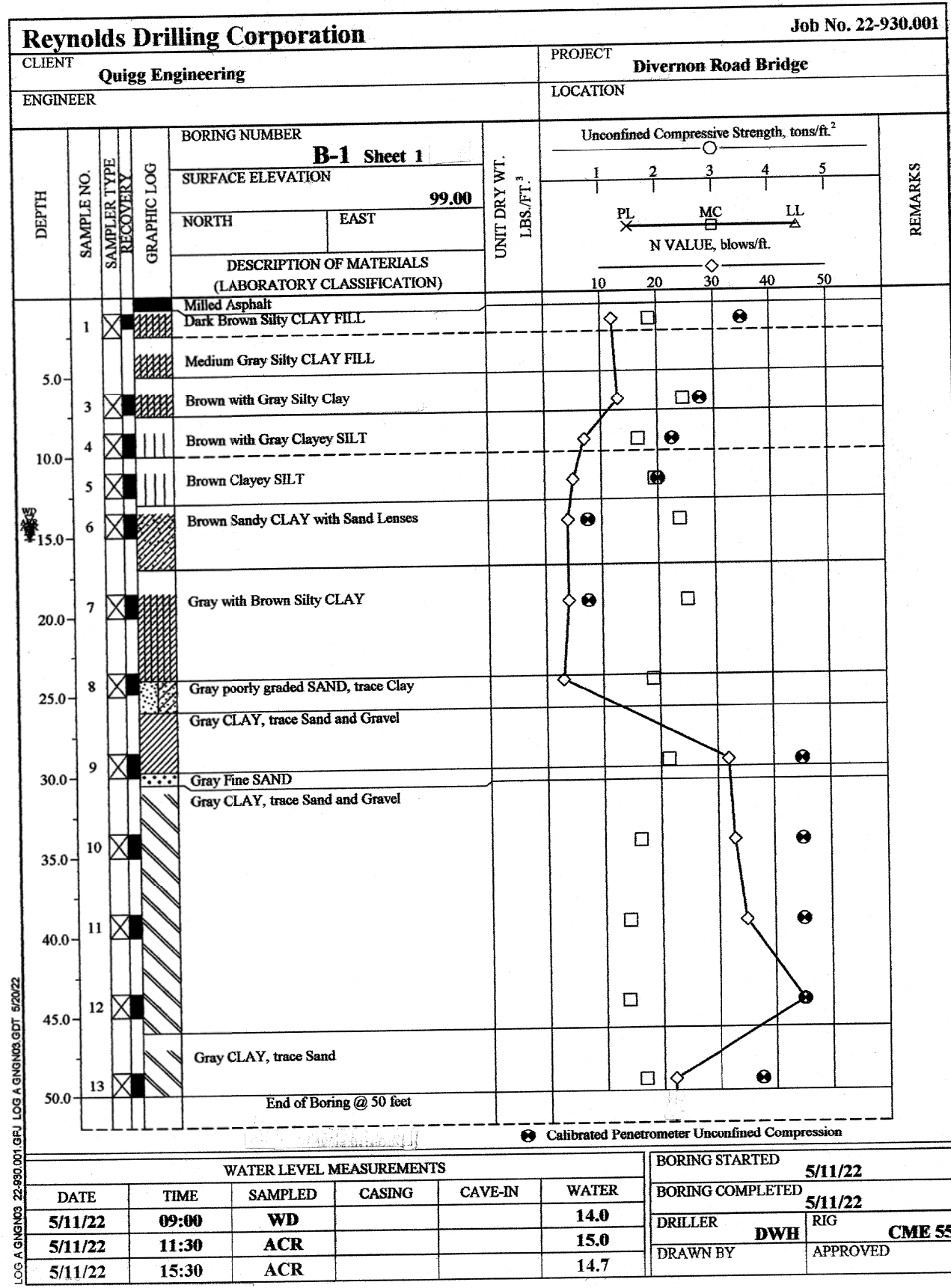
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HP PILE DETAILS
STRUCTURE NO. 084-6188

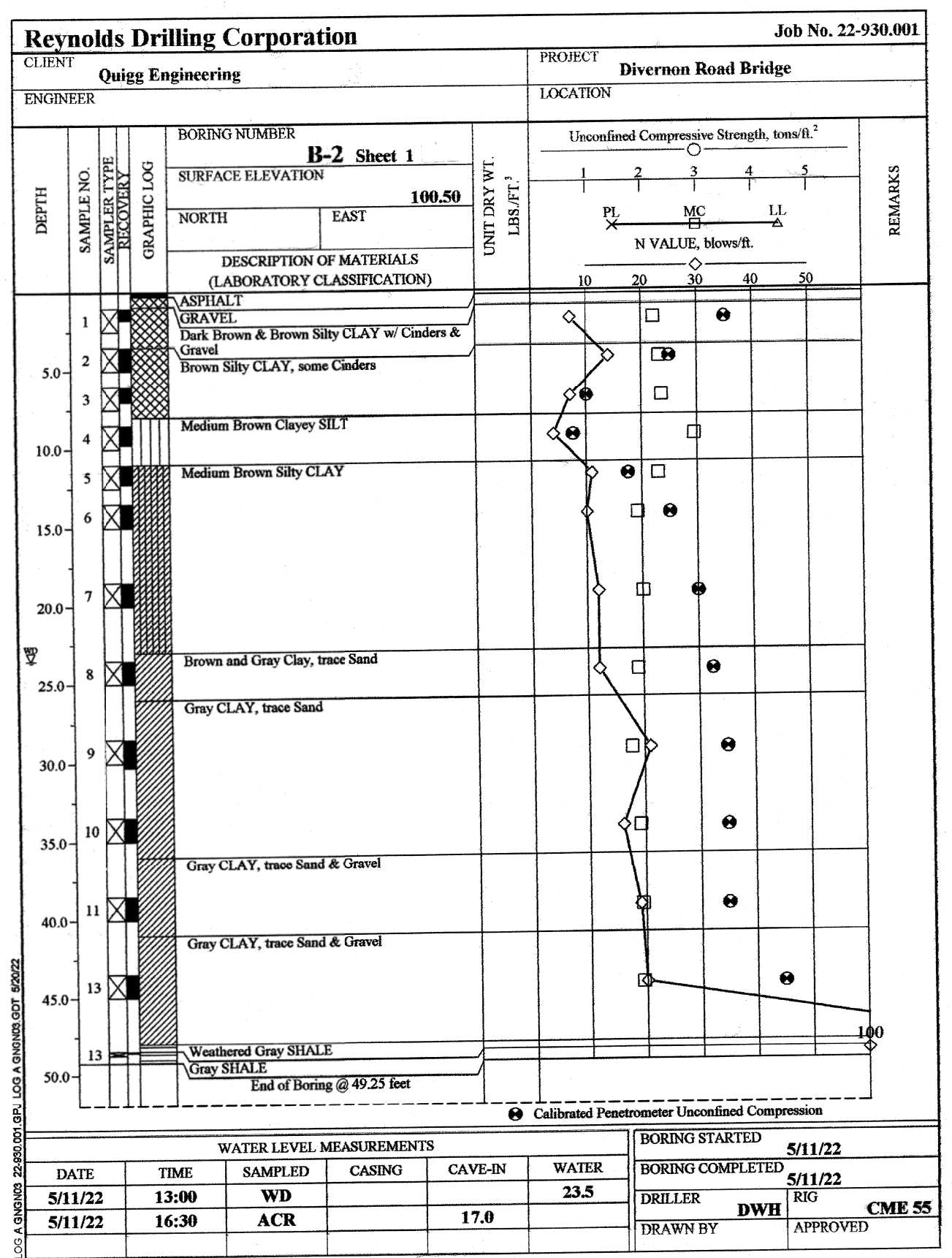
SHEET 13 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	27
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



Top of Boring B-1 Elev. 99.00 = 610.03

Elev. set to 100.00 at SW corner top of curb
Elev. 100.00 = 611.03



Top of Boring B-2 Elev. 100.50 = 611.53

MODEL: Default
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4/18/2024 9:01:30 AM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 084-6188

SHEET 14 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	28
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

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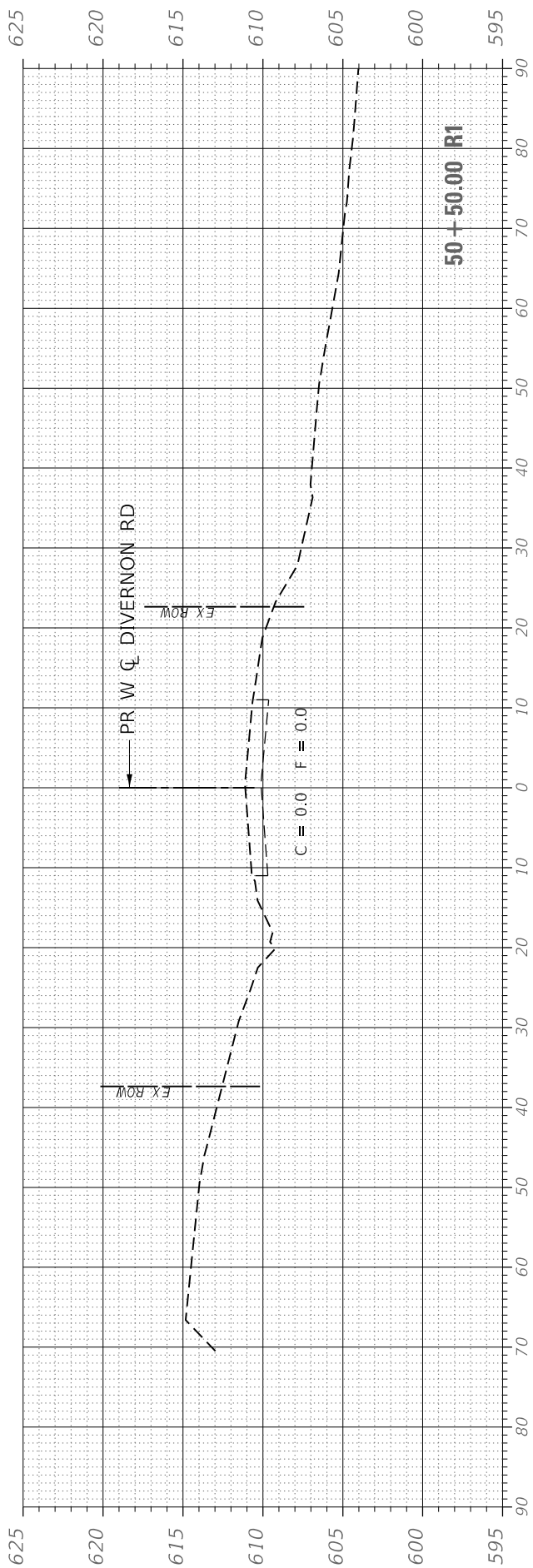
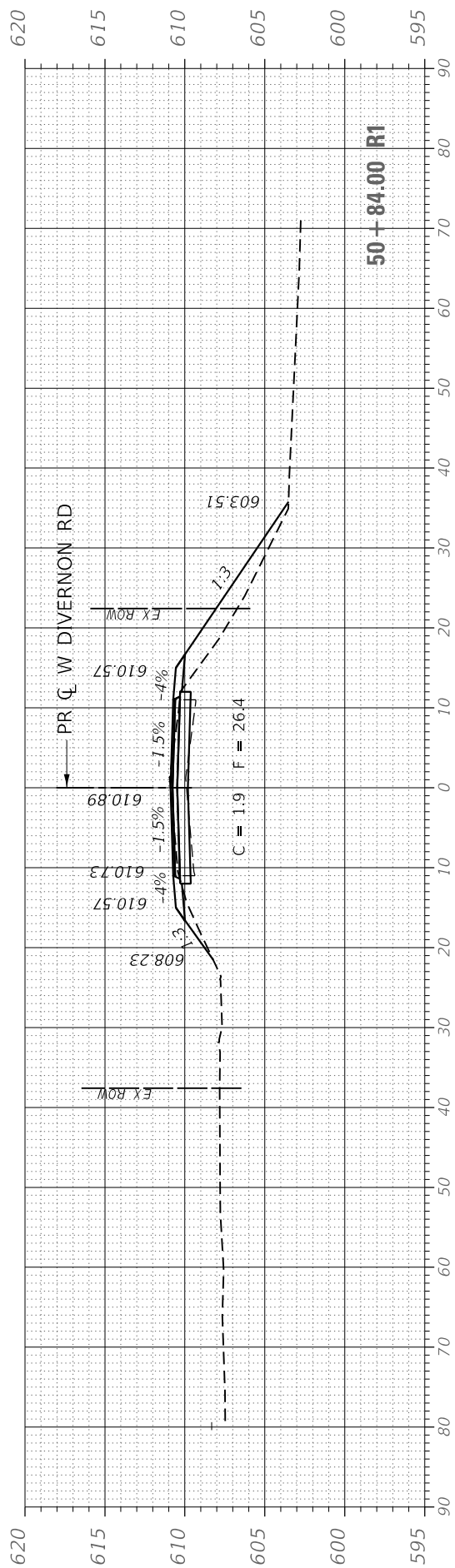
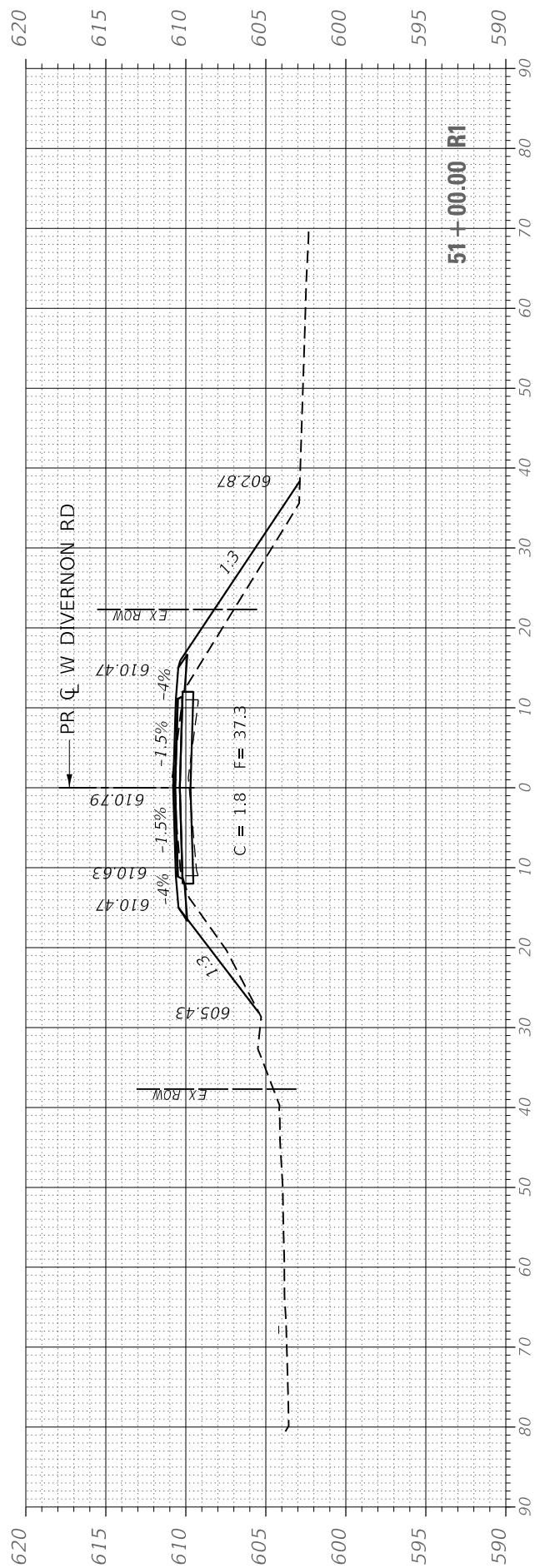
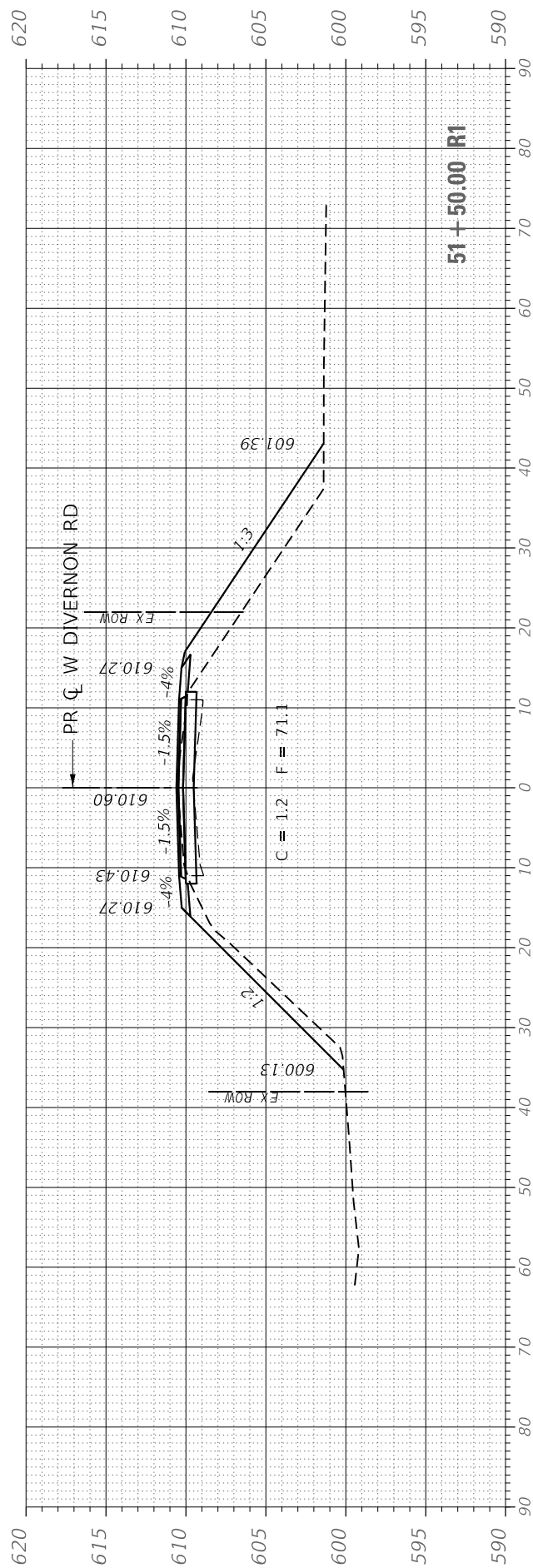
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WEST DIVERNON ROAD

SCALE: 10H 5V SHEET 1 OF 4 SHEETS STA. 50+50.00 TO STA. 51+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	29
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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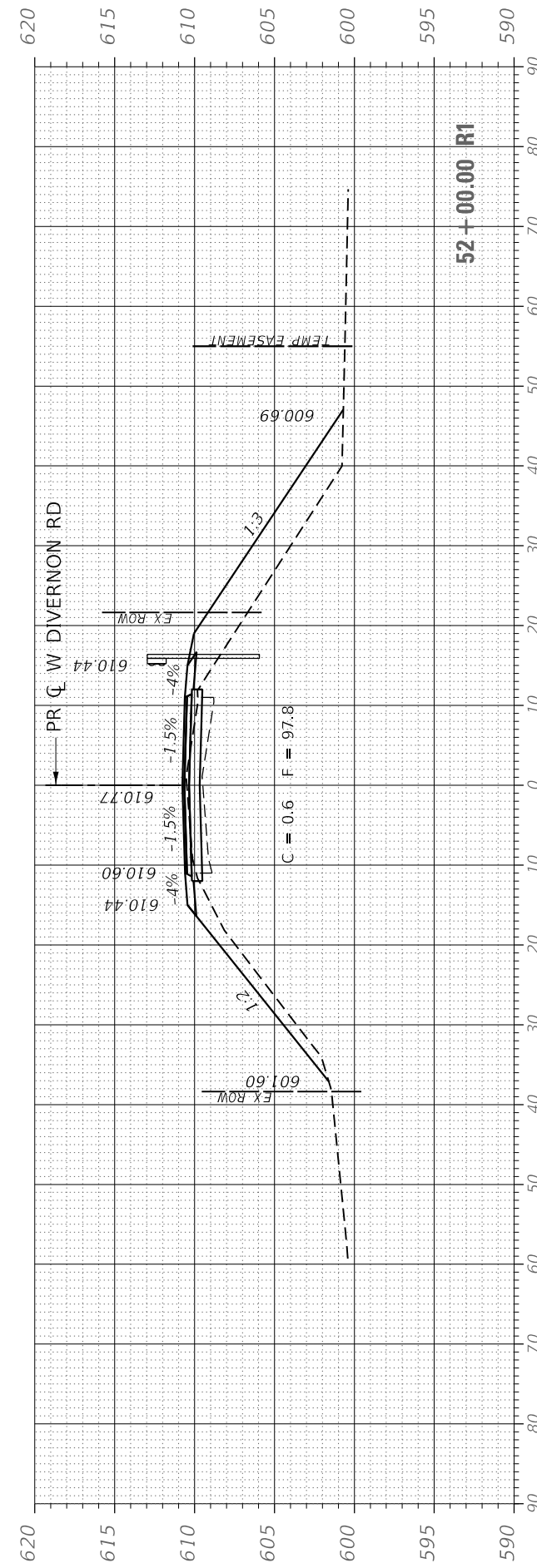
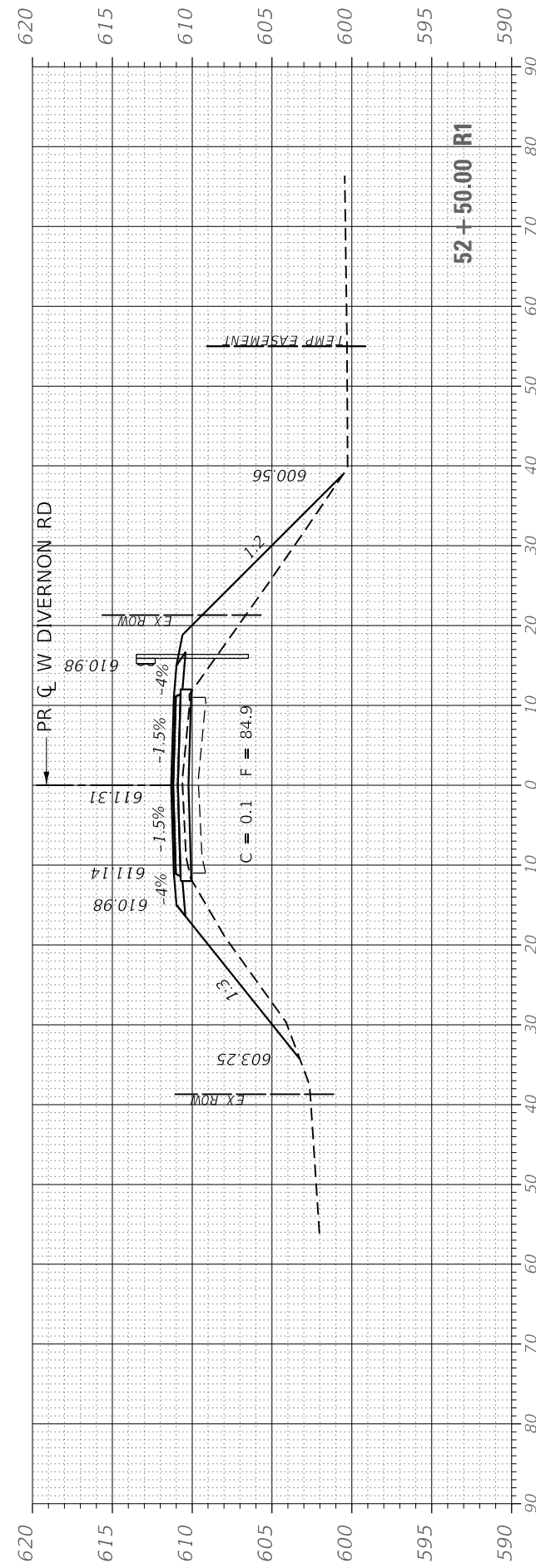
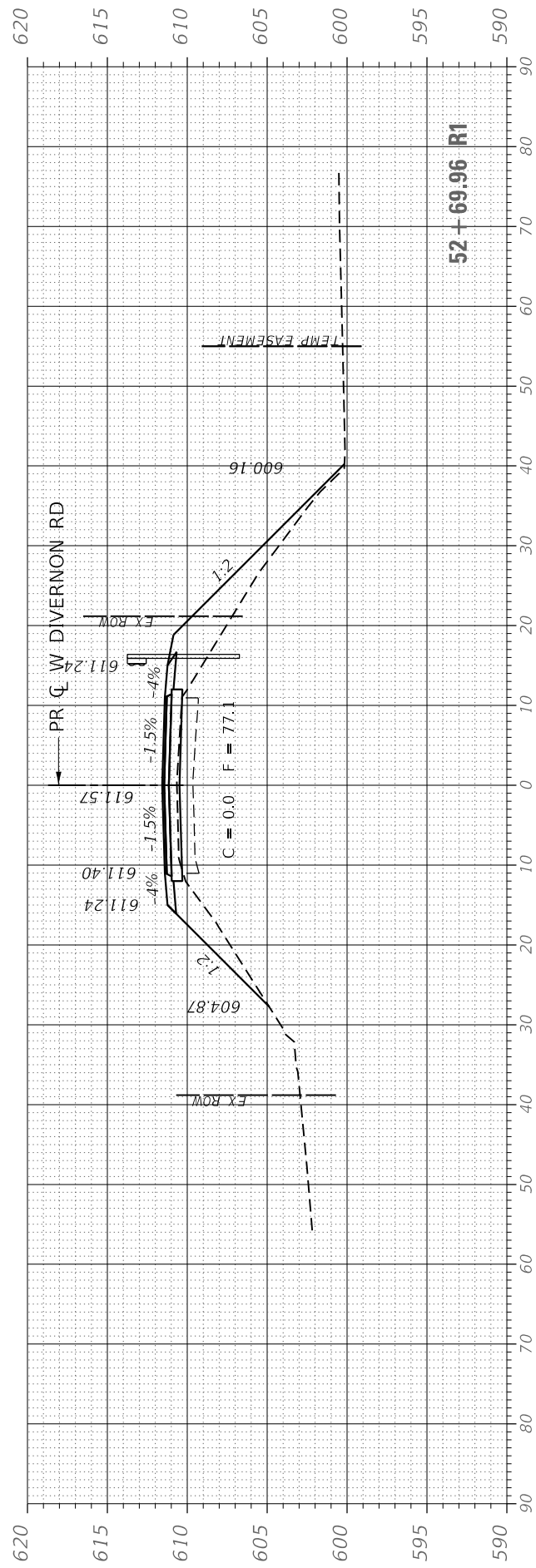
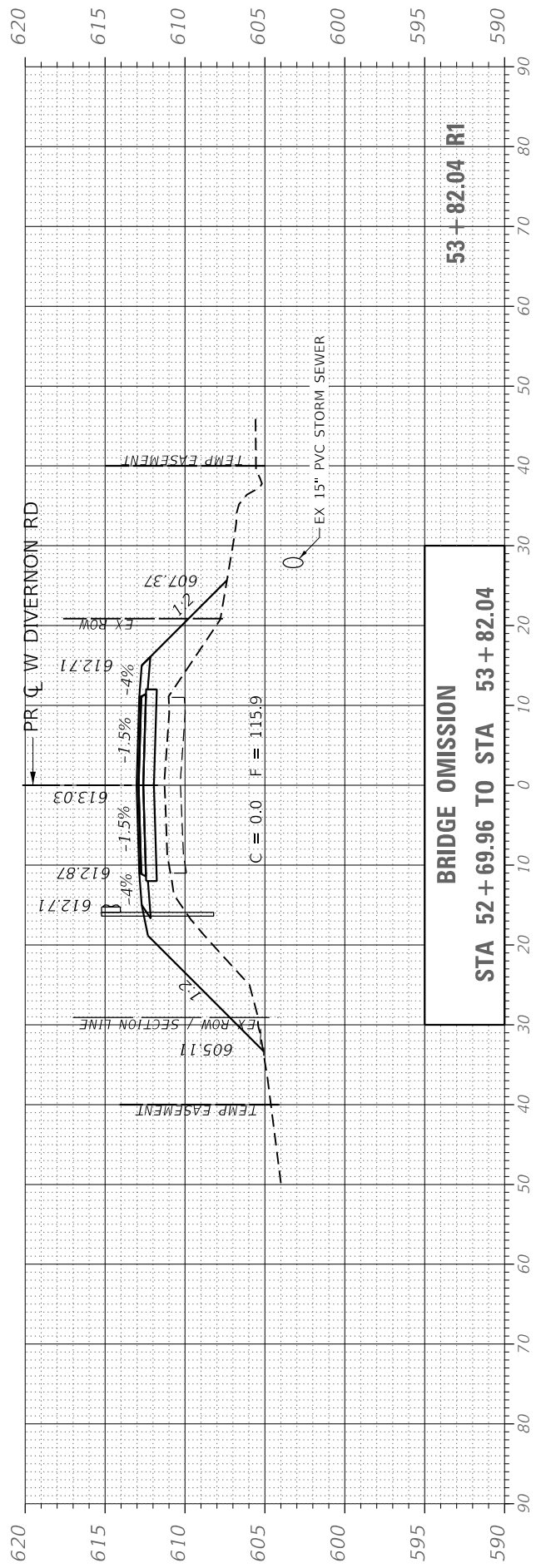
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PLOT DATE = 4/18/2024	DATE - 03/22/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WEST DIVERNON ROAD

SCALE: 10H 5V SHEET 2 OF 4 SHEETS STA. 52+00.00 TO STA. 53+82.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	30
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



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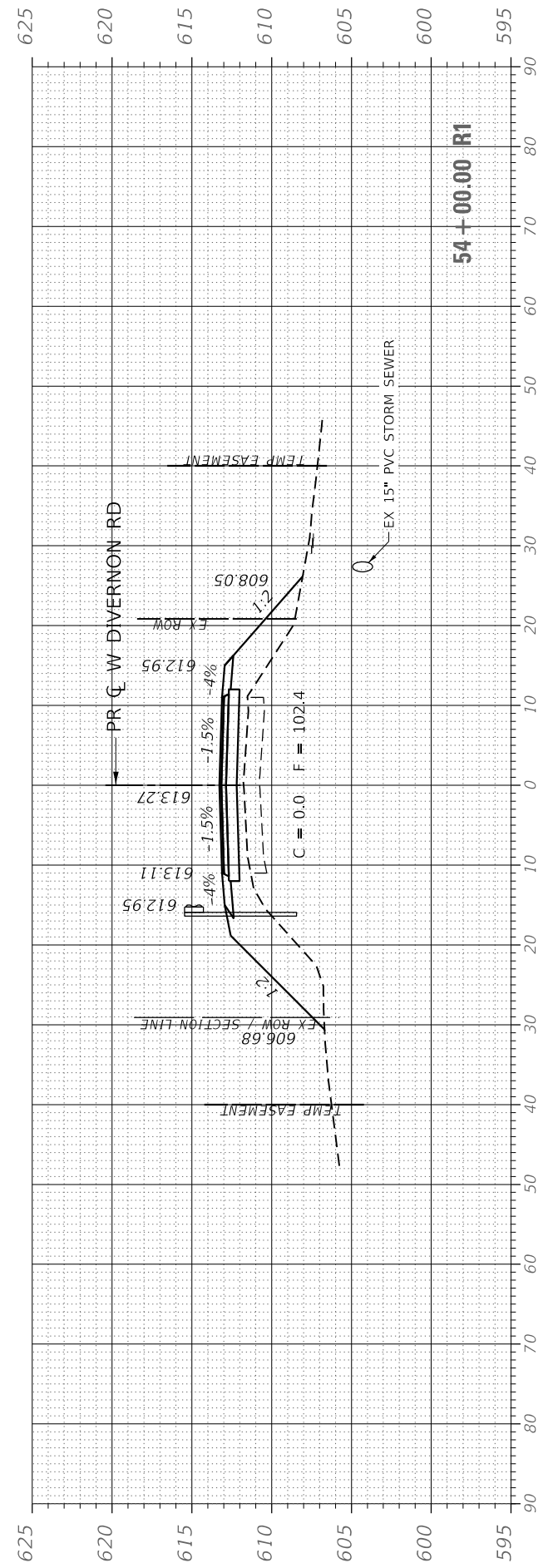
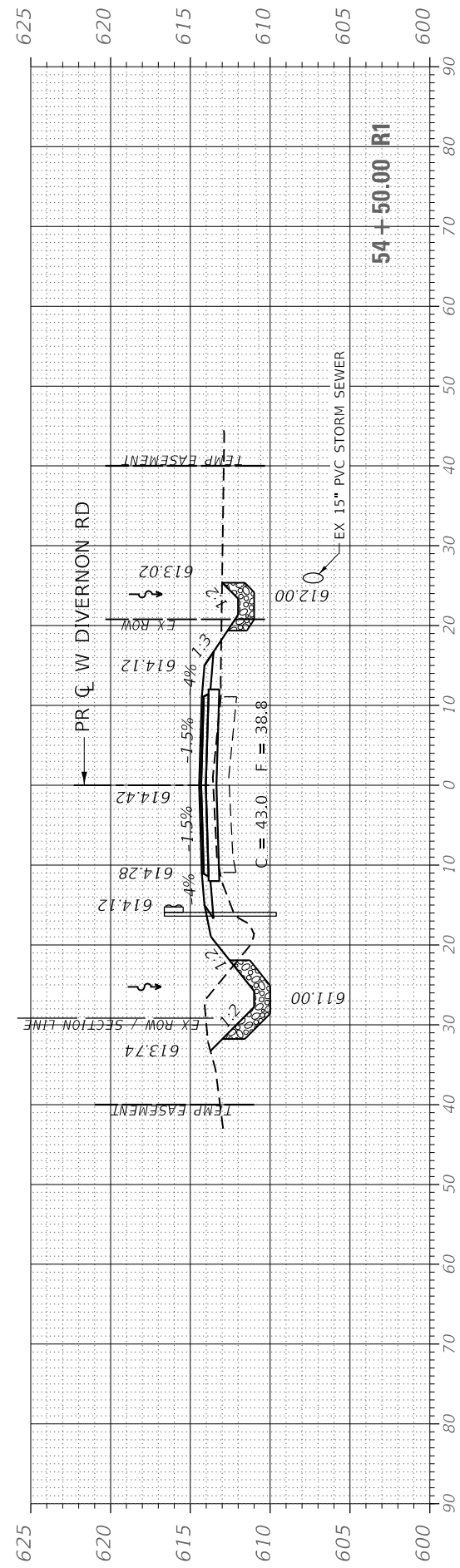
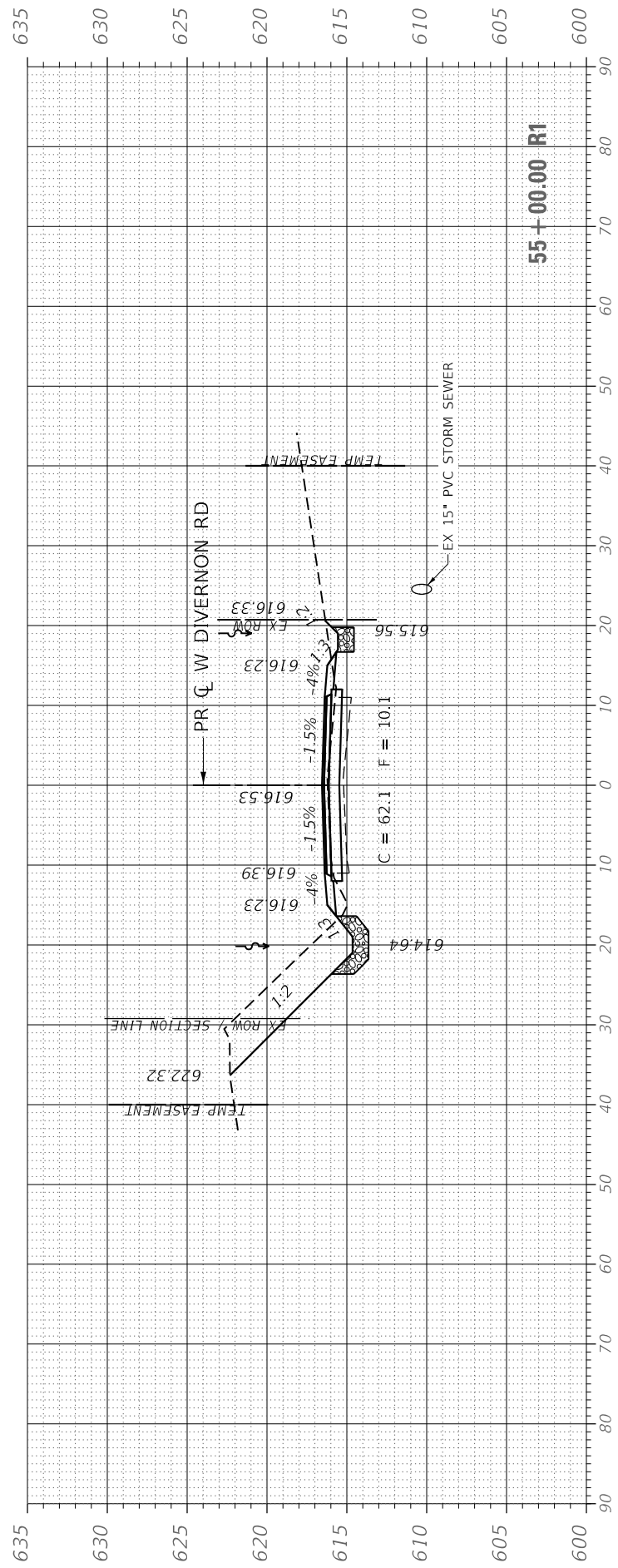
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 CHECKED - SMK
 DATE - 03/22/2024
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WEST DIVERNON ROAD

SCALE: 10H 5V SHEET 3 OF 4 SHEETS STA. 54+00.00 TO STA. 55+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	31
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				



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 PLOT DATE = 4/18/2024

DESIGNED - RG
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 DATE - 03/22/2024

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WEST DIVERNON ROAD

SCALE: 10H 5V SHEET 4 OF 4 SHEETS STA. 55+50.00 TO STA. 56+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	22-00018-00-BR	SANGAMON	32	32
CONTRACT NO. 93809				
ILLINOIS FED. AID PROJECT				

