

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	1
		ILLINOIS	CONTRACT NO. 90922	

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**PROPOSED
HIGHWAY PLANS**

**F.A.I. ROUTE 74 (I-74)
SECTION (92-11HB-4)BR
PROJECT NHPP-HBZP(185)
BRIDGE REPLACEMENT
VERMILION COUNTY**

C-95-013-98
UNDER TILTON RD. IN TILTON

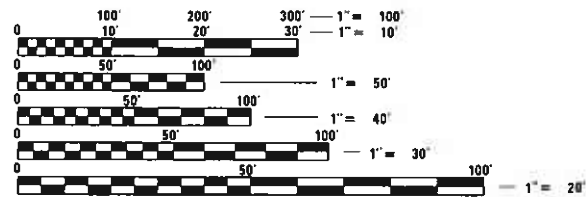
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

LEG	I-74	TILTON RD.
2018 ADT =	24,400	1,550
PV% =	68.5%	97.0%
SU% =	3.6%	2.6%
MU% =	27.9%	0.4%

FUNCTIONAL CLASSIFICATION

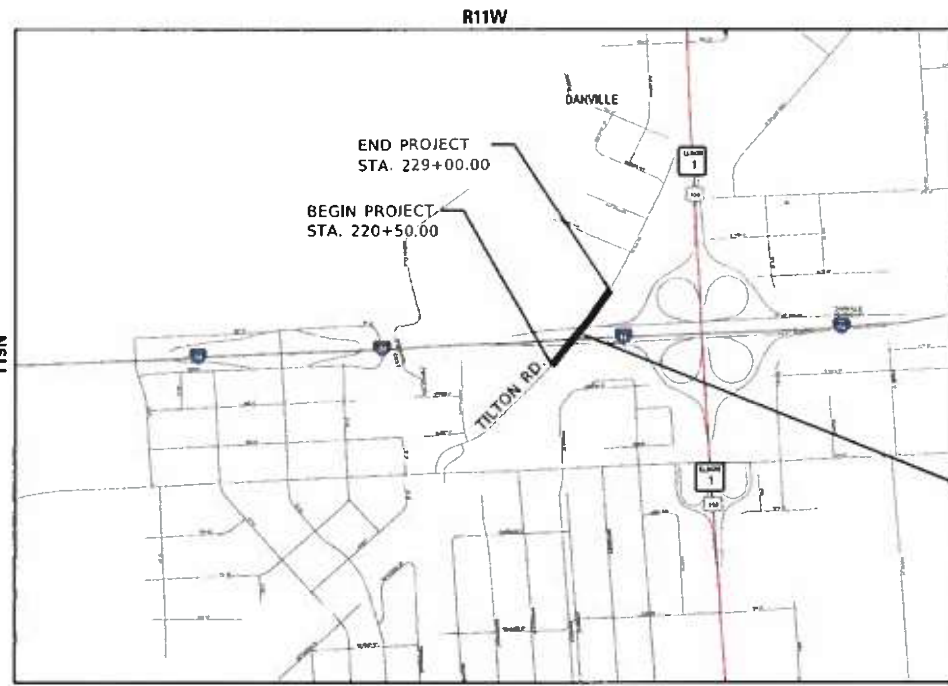
F.A.I. 74: INTERSTATE
TILTON RD.: LOCAL ROAD



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 TOWNSHIP(S): DANVILLE

PHONE NUMBER: (217) 465-4181
PROJECT ENGINEER: JASON W. STULTS
PROJECT MANAGER: RYAN T. CARROLL
CONTRACT NO. 90922



BRIDGE REPLACEMENT
EX SN 092-0087
PR SN 092-0204
STA. 1917+83.42 (I-74) =
STA. 225+15.50 (TILTON RD.)
4-SPAN AT 266'-11" BK-BK ABUTS.
41°10'30" SKEW RT AH

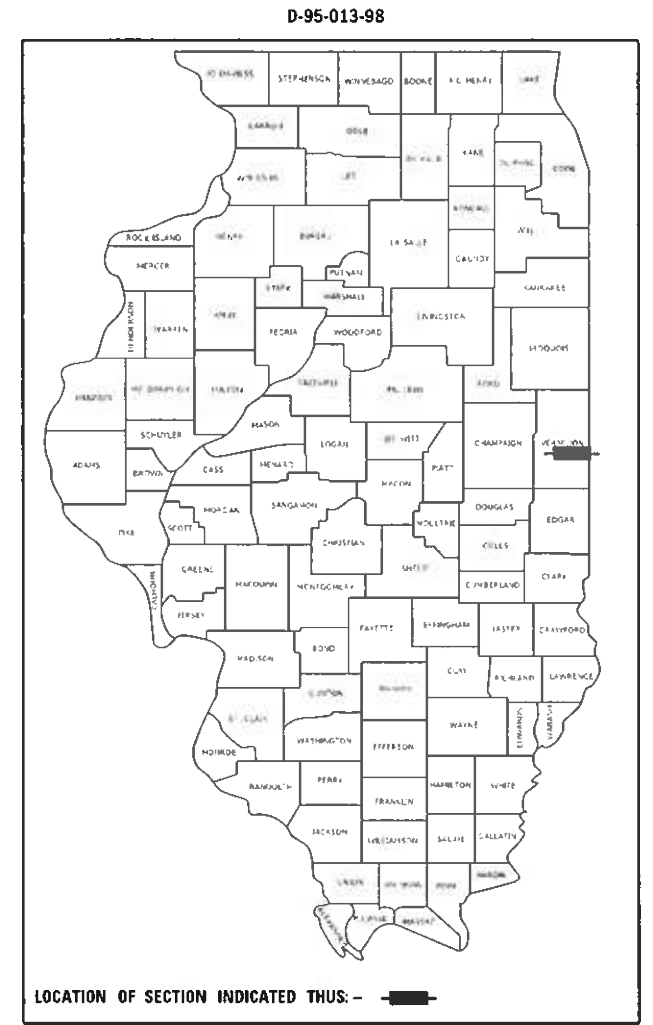
SCALE: 1" = 1.00 MI.

GROSS LENGTH = 850.00 FT. = 0.161 MILE
NET LENGTH = 850.00 FT. = 0.161 MILE



7-29-2020
SHEETS 1-22, 25-37, 94-133
JOSHUA W. STEJNEGER, PE
STATE OF ILLINOIS NO. 062-062775
EXPIRES 11-30-2021

7-29-2020
SHEETS 23-24, 38-55
SEAN D. MAXWELL, PE
STATE OF ILLINOIS NO. 062-071986
EXPIRES 11-30-2021



PLANS PREPARED BY:
TWM ENGINEERING GEOSPATIAL SERVICES
4940 Old Collinsville Road
Swansea, Illinois 62226
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 8/11 2020
Kenil A. Garnett
REGIONAL ENGINEER

October 2, 2020
Sean D. Maxwell
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2020
Jason W. Stejneger
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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GENERAL NOTES

G.N.-100B
 MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT AND THE ENGINEER HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

G.N.-105.09A
 ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-201
 TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

G.N.-205
 BENCHING PROCEDURES SHALL BE USED IN AREAS WHERE EXISTING EMBANKMENTS ARE WIDENED. STEPS SHALL BE CUT INTO THE EXISTING EMBANKMENT SLOPES AND SHALL HAVE THE FOLLOWING DIMENSIONS:
 HORIZONTAL: VARIES
 VERTICAL: 4 FEET

G.N. -406H
 MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION	TILTON ROAD	TILTON ROAD	TILTON ROAD
MIXTURE USE	SURFACE MAINLINE & TOP 1 1/2" OF SHOULDERS	BINDER * MAINLINE & BOTTOM 6 1/2" OF SHOULDERS	BINDER * FINE GRADED
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 % @ Ndes=50	4.0 % @ Ndes=50	4.0 % @ Ndes=50
MIXTURE COMP (GRADATION)	IL 9.5	IL 19.0	IL 9.5FG
FRICTION AGGREGATE	MIX "C"	N/A	N/A
MIXTURE WEIGHT	112	112	112
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A

* BINDER PLACED LESS THAN 2.25" WILL NEED TO BE A 9.5FG BINDER.

G.N.- 551
 EXISTING STORM SEWERS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 551 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONTRACTOR WILL NOT BE REQUIRED TO SALVAGE ANY EXISTING SEWER PIPE.

ALL PROPOSED WORK RELATED TO DRAINAGE SHALL BE COMPLETED UNDER MAINTENANCE OF TRAFFIC STAGE 1 AND 2, FAI-74 TEMPORARY CLOSURES, AND TILTON ROAD CLOSURE.

COMMITMENTS

NONE

HIGHWAY STANDARDS

000001-07	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
420001-09	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
442101-09	CLASS B PATCHES
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375mm) THRU 84" (2100 mm) DIA.
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
601001-05	PIPE UNDERDRAINS
602106-03	DRAINAGE STRUCTURES TYPES 4 & 5
602601-06	PRECAST MANHOLE, TYPE A, 7' (2.13 m) DIAMETER
602411-08	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604071-05	FRAME AND GRATE TYPE 20
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-08	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINAL
631011-10	TRAFFIC BARRIER TERMINAL TYPE 2
631031-16	TRAFFIC BARRIER TERMINAL TYPE 6
637006-05	CONCRETE BARRIER DOUBLE FACE, 44 IN. HEIGHT
643001-02	SAND MODULE IMPACT ATTENUATORS
664001-02	CHAIN LINK FENCE
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701801-06	SIDEWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION WERE UTILIZED TO CALCULATE CONTRACT QUANTITIES:

SUBBASE GRANULAR MATERIAL, TYPE A	1.80 TON/CY
AGGREGATE SHOULDERS, TYPE B	1.60 TON/CY
BITUMINOUS MATERIALS - TACK COAT (EX. HMA, MILLED SURFACE, CONCRETE, MILLED/TINED CONCRETE)	0.05 LB/SF
BITUMINOUS MATERIALS - TACK COAT (BETWEEN HMA LIFTS, IL 4.75, BRICK)	0.025 LB/SF
HOT-MIX ASPHALT SURFACE/BINDER/BASE	0.056 TON/SY PER INCH
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
MULCH	2 TON/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS & COMMITMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 90922	

F.A.I. 74
VERMILION CO.
90% FED
10% STATE
URBAN

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
20100500	TREE REMOVAL, ACRES	ACRE	0.50	0.50
20200100	EARTH EXCAVATION	CU YD	200	200
20400800	FURNISHED EXCAVATION	CU YD	2990	2990
20800150	TRENCH BACKFILL	CU YD	22	22
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70
25100115	MULCH, METHOD 2	ACRE	0.50	0.50
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1558	1558
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150
28000305	TEMPORARY DITCH CHECKS	FOOT	96	96
28000400	PERIMETER EROSION BARRIER	FOOT	1005	1005
28000500	INLET AND PIPE PROTECTION	EACH	4	4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	3
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

F.A.I. 74
VERMILION CO.
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	81	81
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1366	1366
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	170	170
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	36	36
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	276	276
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	138	138
42001300	PROTECTIVE COAT	SQ YD	663	663
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	2075	2075
44000100	PAVEMENT REMOVAL	SQ YD	136	136
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1050	1050
44000600	SIDEWALK REMOVAL	SQ FT	1603	1603
44001980	CONCRETE BARRIER REMOVAL	FOOT	124	124
44004250	PAVED SHOULDER REMOVAL	SQ YD	226	226
44201019	CLASS B PATCHES, TYPE II, 14 INCH	SQ YD	43	43

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	4
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

F.A.I. 74
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	151	151
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	449	449
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	138	138
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4
50105220	PIPE CULVERT REMOVAL	FOOT	305	305
50157300	PROTECTIVE SHIELD	SQ YD	1040	1040
50200100	STRUCTURE EXCAVATION	CU YD	1052	1052
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	531	531
50300225	CONCRETE STRUCTURES	CU YD	481.5	481.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	459.6	459.6
50300260	BRIDGE DECK GROOVING	SQ YD	1234	1234
50300300	PROTECTIVE COAT	SQ YD	1763	1763
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	120.8	120.8

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	5
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

F.A.I. 74
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	7638	7638
50800105	REINFORCEMENT BARS	POUND	580	580
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	218820	218820
50901730	BRIDGE FENCE RAILING	FOOT	285	285
50901750	PARAPET RAILING	FOOT	289	289
51201900	FURNISHING STEEL PILES HP14X89	FOOT	498	498
51500100	NAME PLATES	EACH	1	1
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	18	18
52100520	ANCHOR BOLTS, 1"	EACH	24	24
52100530	ANCHOR BOLTS, 1 1/4"	EACH	36	36
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	839	839
52200500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	5037	5037
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2

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**STATE OF ILLINOIS
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SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	6
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

F.A.I. 74
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2
54261236	CONCRETE END SECTION, STANDARD 542001, 36", 1:2	EACH	3	3
54261336	CONCRETE END SECTION, STANDARD 542001, 36", 1:3	EACH	1	1
54262712	METAL FLARED END SECTIONS 12"	EACH	2	2
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	63	63
542A1921	PIPE CULVERTS, CLASS A, TYPE 3 36"	FOOT	156	156
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	20	20
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	83	83
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	49	49
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	155	155
55100500	STORM SEWER REMOVAL, 12"	FOOT	18	18
55101200	STORM SEWER REMOVAL, 24"	FOOT	42	42
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	183	183
58700300	CONCRETE SEALER	SQ FT	3653	3653

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	7
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

F.A.I. 74
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
60100945	PIPE DRAINS 12"	FOOT	83	83
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	16.0	16.0
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	285	285
61000050	CONCRETE THRUST BLOCKS	EACH	1	1
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	1	1
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	1	1
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	487.5	487.5
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5
63200310	GUARDRAIL REMOVAL	FOOT	787	787
63700805	CONCRETE BARRIER TRANSITION	FOOT	80	80
63700900	CONCRETE BARRIER BASE	FOOT	104	104

*= SPECIALTY ITEM

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IL DESIGN FIRM
LICENSE NO:
184-001220

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DATE - AUGUST 2020

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

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 6 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	8
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

F.A.I. 74
VERMILION CO.
90% FED
10% STATE
URBAN

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
64301090	ATTENUATOR BASE	SQ YD	55	55
66201120	CONCRETE SHOULDER CURB	FOOT	36	36
66400105	CHAIN LINK FENCE, 4'	FOOT	303	303
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1050	1050
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	6	6
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	450	450
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	1509	1509
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1

*= SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	9
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

F.A.I. 74
VERMILION CO.
90% FED
10% STATE
URBAN

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1055	1055
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1588	1588
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1443	1443
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	5
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1957	1957
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	8	8
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	37	37
80300100	LOCATING UNDERGROUND CABLE	FOOT	520	520
X0326208	ALTERNATE ROUTE SIGNING	L SUM	1	1
X0327640	REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT	CAL MO	8	8
X0327641	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	CAL MO	128	128

*= SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	10
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

F.A.I. 74
VERMILION CO.
90% FED
10% STATE
URBAN

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
X0328006	REAL-TIME TRAFFIC CONTROL WARNING SIGN	CAL MO	80	80
X0964700	SHOULDERS, SPECIAL	SQ YD	124	124
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	16	16
X4201410	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SQ YD	306	306
X4401981	CONCRETE BARRIER BASE REMOVAL	SQ FT	837	837
X6013600	PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	156	156
X6020190	DRAINAGE STRUCTURES, TYPE 4 SPECIAL WITH TWO TYPE 20 FRAME AND GRATES	EACH	2	2
X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	270	270
X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	24	24
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	2	2
X6431110	REMOVE ATTENUATOR BASE	EACH	2	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	352	352
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	507	507

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 9 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	11
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

F.A.I. 74
VERMILION CO.
90% FED
10% STATE
URBAN

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0016702	DETOUR SIGNING	L SUM	1	1
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	2	2
Z0022800	FENCE REMOVAL	FOOT	121	121
Z0023500	FILLING EXISTING CULVERTS	CU YD	1.6	1.6
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	527	527
Z0038700	PERMANENT BENCH MARKS	EACH	1	1
Z0065000	SETTING PILES IN ROCK	EACH	12	12
∅ Z0076600	TRAINEES	HOUR	1,000	1,000
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000

∅ 0042

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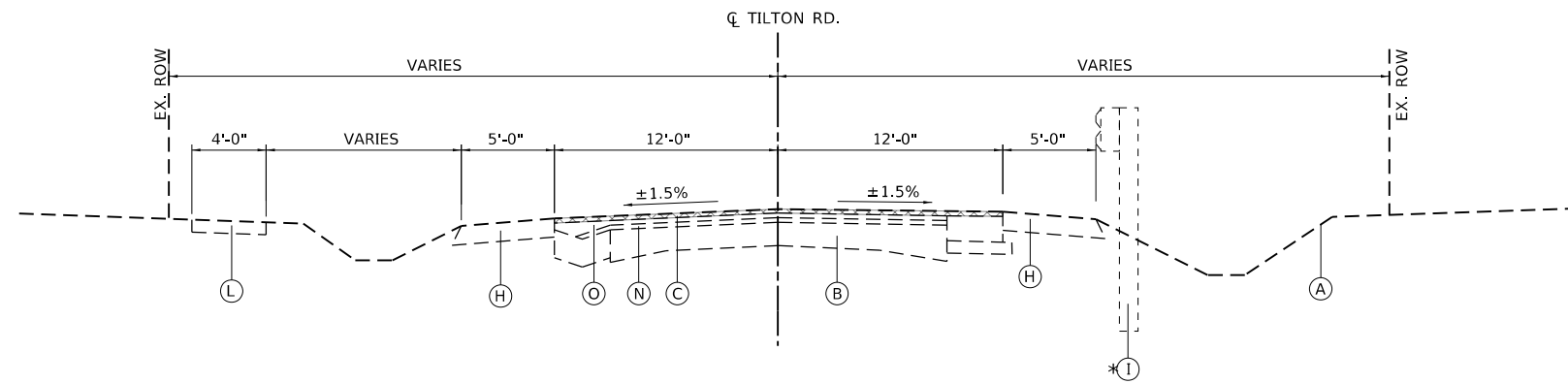


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
NONE	10	10	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	12
			CONTRACT NO. 90922	
		ILLINOIS	FED. AID PROJECT	

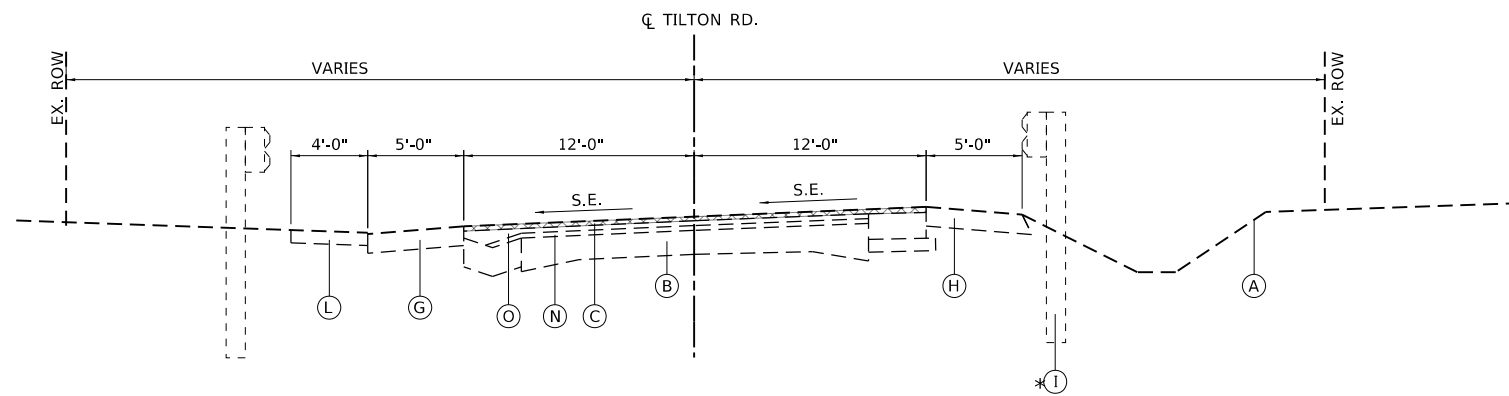


EXISTING TYPICAL SECTION

STA. 220+50 TO STA. 222+29
 STA. 227+90 TO STA. 229+00

***EX. GUARDRAIL LIMITS**
 LT STA. 222+37 TO STA. 223+19
 STA. 226+77 TO STA. 227+86
 RT STA. 221+62 TO STA. 223+52
 STA. 227+06 TO STA. 227+96

EXISTING SUPERELEVATION
 S.E. = 1.5%±
 FULL S.E.
 STA. 222+50± TO STA. 227+20±
 S.E. TRANSITION
 STA. 220+50± TO STA. 222+50±
 STA. 227+20± TO STA. 228+50±



EXISTING TYPICAL SECTION

STA. 222+29 TO STA. 223+37
 STA. 226+94 TO STA. 227+90

EX SN 092-0087
 STA. 223+37 TO STA. 226+94 ±

LEGEND

- (A) EX. GROUND
- (B) EX. PCC PAVEMENT, 9-6-9
- (C) EX. HMA SURFACE CSE, 1 1/2"
- (D) EX. HMA BINDER CSE, 1 3/4"
- (E) EX. PCC PAVEMENT, 10"
- (F) EX. AGGREGATE SUBBASE, 6"
- (G) EX. HMA SHOULDERS
- (H) EX. AGGREGATE SHOULDERS
- (I) EX. GUARDRAIL
- (J) EX. CONCRETE BARRIER, DOUBLE FACE
- (K) EX. CONCRETE BARRIER BASE
- (L) EX. SIDEWALK
- (M) EX. PIPE UNDERDRAIN
- (N) EX. HMA RESURFACING, 2 1/4"
- (O) EX. HMA BINDER COURSE, 1 1/4"
- (P) EX. PCC BASE COURSE WIDENING, 10"
- (Q) EX. HMA SHOULDER, 9"
- (1) PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- (2) PR. BITUMINOUS MATERIALS (TACK COAT)
- (3) PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- (4) PR. HOT-MIX ASPHALT BINDER COURSE, VARIABLE DEPTH
- (5) PR. HOT-MIX ASPHALT SHOULDERS, 6.5"
- (6) PR. AGGREGATE SHOULDER, TYPE B, 8"
- (7) PR. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (8) PR. PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (9) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (10) PR. SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (11) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (12) PR. CONCRETE GUTTER, TYPE B
- (13) PR. MECHANICALLY STABILIZED EARTH RETAINING WALL
- (14) PR. CONCRETE BARRIER WALL (SPECIAL) / TRANSITION
- (15) PR. CONCRETE BARRIER BASE
- (16) PR. EMBANKMENT
- (17) PR. BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
- (18) PR. LONGITUDINAL JOINT SEALANT
- (19) PR. SHOULDERS, SPECIAL
- (20) PR. HOT-MIX ASPHALT SHOULDERS, 9"
- (21) PR. CONCRETE SHOULDER CURB



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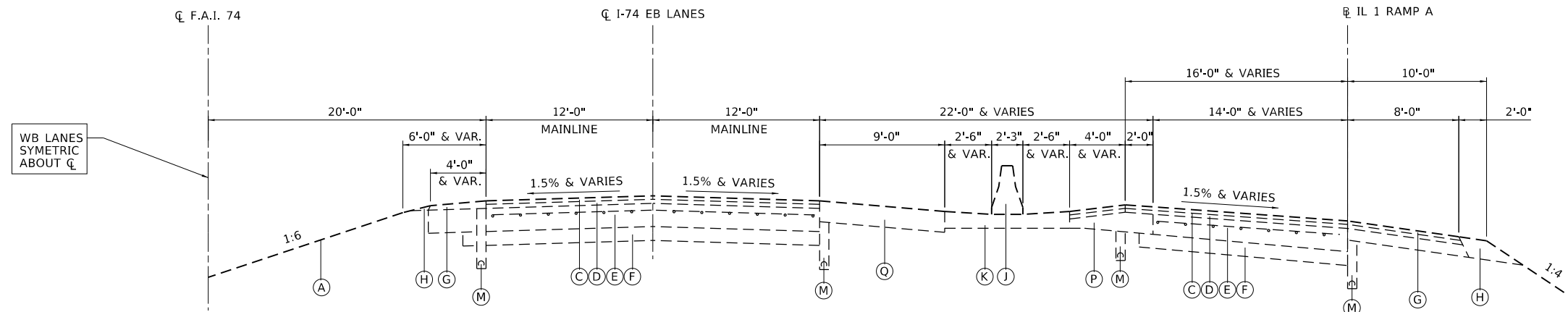
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
 TILTON ROAD**

SCALE: NTS SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	13
			CONTRACT NO. 90922	
		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL SECTION

STA. 1908+00 TO STA. 1920+00

LEGEND

- (A) EX. GROUND
- (B) EX. PCC PAVEMENT, 9-6-9
- (C) EX. HMA SURFACE CSE, 1 1/2"
- (D) EX. HMA BINDER CSE, 1 3/4"
- (E) EX. PCC PAVEMENT, 10"
- (F) EX. AGGREGATE SUBBASE, 6"
- (G) EX. HMA SHOULDERS
- (H) EX. AGGREGATE SHOULDERS
- (I) EX. GUARDRAIL
- (J) EX. CONCRETE BARRIER, DOUBLE FACE
- (K) EX. CONCRETE BARRIER BASE
- (L) EX. SIDEWALK
- (M) EX. PIPE UNDERDRAIN
- (N) EX. HMA RESURFACING, 2 1/4"
- (O) EX. HMA BINDER COURSE, 1 1/4"
- (P) EX. PCC BASE COURSE WIDENING, 10"
- (Q) EX. HMA SHOULDER, 9"
- (1) PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- (2) PR. BITUMINOUS MATERIALS (TACK COAT)
- (3) PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- (4) PR. HOT-MIX ASPHALT BINDER COURSE, VARIABLE DEPTH
- (5) PR. HOT-MIX ASPHALT SHOULDERS, 6.5"
- (6) PR. AGGREGATE SHOULDER, TYPE B, 8"
- (7) PR. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (8) PR. PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (9) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (10) PR. SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (11) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (12) PR. CONCRETE GUTTER, TYPE B
- (13) PR. MECHANICALLY STABILIZED EARTH RETAINING WALL
- (14) PR. CONCRETE BARRIER WALL (SPECIAL) / TRANSITION
- (15) PR. CONCRETE BARRIER BASE
- (16) PR. EMBANKMENT
- (17) PR. BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
- (18) PR. LONGITUDINAL JOINT SEALANT
- (19) PR. SHOULDERS, SPECIAL
- (20) PR. HOT-MIX ASPHALT SHOULDERS, 9"
- (21) PR. CONCRETE SHOULDER CURB



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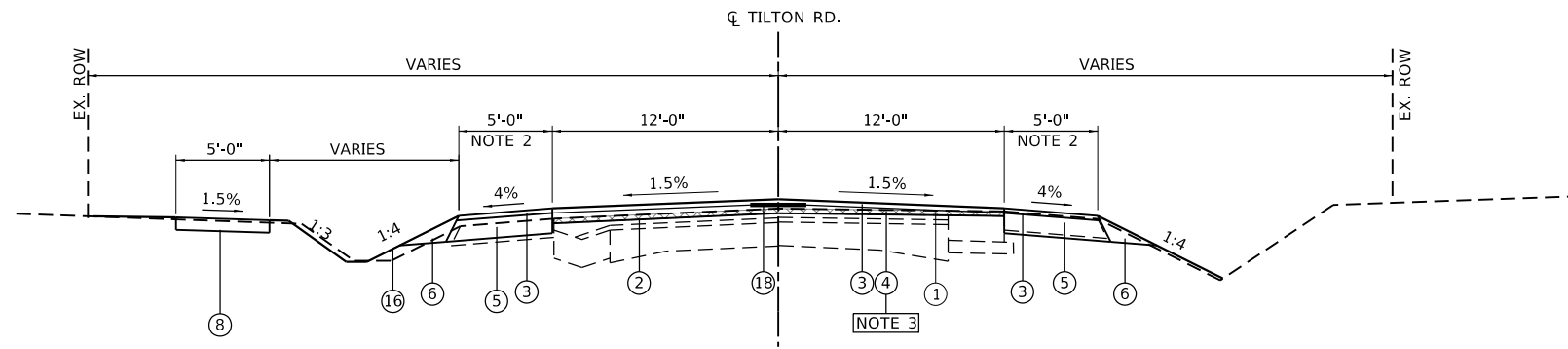
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTION
I-74**

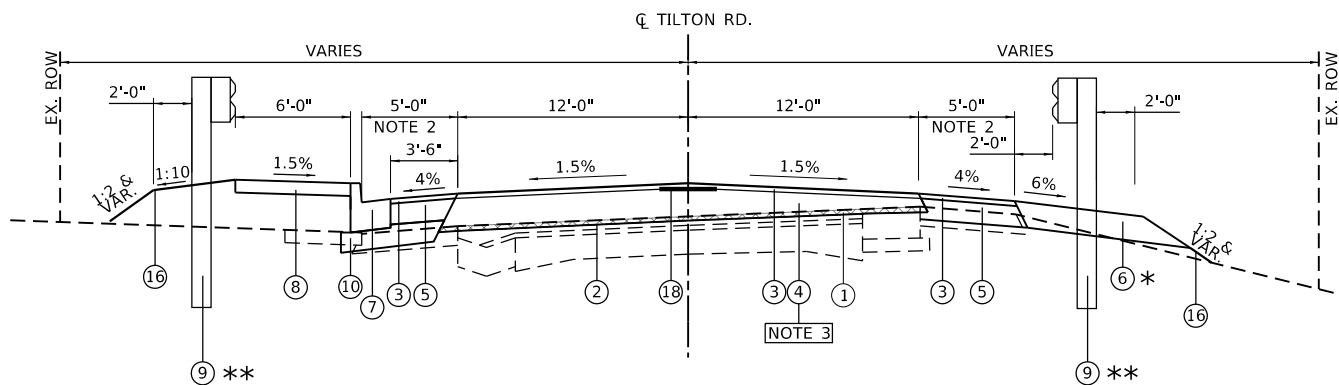
SCALE: NTS SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	14
			CONTRACT NO. 90922	
		ILLINOIS	FED. AID PROJECT	



PROPOSED TYPICAL SECTION

STA. 220+50.00 TO STA. 222+24.48
 STA. 227+97.83 TO STA. 229+00.00



PROPOSED TYPICAL SECTION

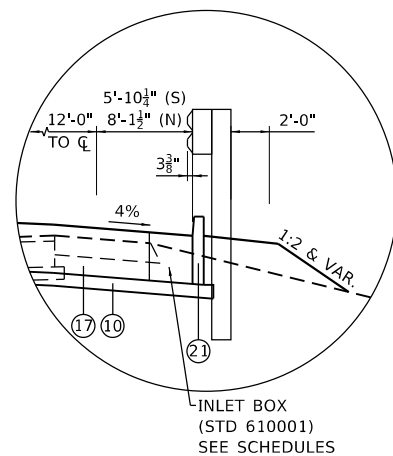
STA. 222+24.48 TO STA. 223+10.00
 STA. 227+15.00 TO STA. 227+97.83

* STA. 222+50.97 TO STA. 223+10.00
 STA. 227+15.00 TO STA. 228+26.76

** STA. 222+59.35 TO STA. 223+10.00 - LT
 STA. 227+15.00 TO STA. 227+31.16 - LT
 STA. 222+97.60 TO STA. 223+10.00 - RT
 STA. 227+15.00 TO STA. 227+64.72 - RT

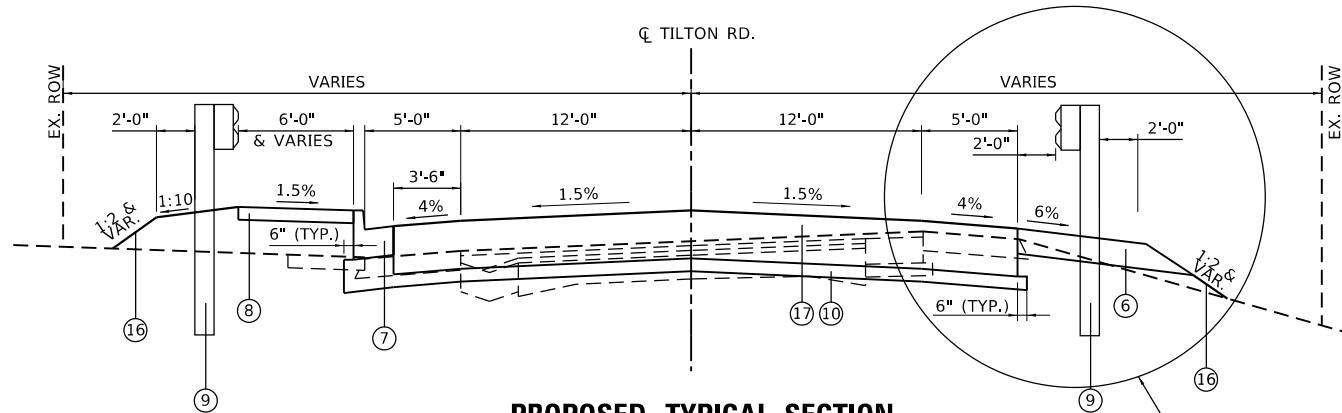
BRIDGE APPROACH SLAB
 STA. 223+52.13 TO STA. 223+81.61
 STA. 226+47.71 TO STA. 226+75.48

PR. SN 092-0204
 STA. 223+81.61 TO STA. 226+47.71



DETAIL A

STA. 223+48.37 TO STA. 223+69.21 - RT
 STA. 226+85.10 TO STA. 227+07.10 - RT



PROPOSED TYPICAL SECTION

BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
 STA. 223+10.00 TO STA. 223+52.13
 STA. 226+75.48 TO STA. 227+15.00

NOTES

1. BITUMINOUS MATERIALS (TACK COAT) SHALL ALSO BE APPLIED BETWEEN ALL HMA LIFTS INCLUDING HMA SHOULDER LIFTS.
2. THE TOP 1.5" SHALL BE HMA SURFACE OF THE SAME USED FOR THE ROADWAY.
3. SEE SCHEDULES FOR LOCATIONS AND TYPES OF BINDER COURSE USED.

LEGEND

- (A) EX. GROUND
- (B) EX. PCC PAVEMENT, 9-6-9
- (C) EX. HMA SURFACE CSE, 1 1/2"
- (D) EX. HMA BINDER CSE, 1 3/4"
- (E) EX. PCC PAVEMENT, 10"
- (F) EX. AGGREGATE SUBBASE, 6"
- (G) EX. HMA SHOULDERS
- (H) EX. AGGREGATE SHOULDERS
- (I) EX. GUARDRAIL
- (J) EX. CONCRETE BARRIER, DOUBLE FACE
- (K) EX. CONCRETE BARRIER BASE
- (L) EX. SIDEWALK
- (M) EX. PIPE UNDERDRAIN
- (N) EX. HMA RESURFACING, 2 1/4"
- (O) EX. HMA BINDER COURSE, 1 1/4"
- (P) EX. PCC BASE COURSE WIDENING, 10"
- (Q) EX. HMA SHOULDER, 9"
- (1) PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- (2) PR. BITUMINOUS MATERIALS (TACK COAT)
- (3) PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- (4) PR. HOT-MIX ASPHALT BINDER COURSE, VARIABLE DEPTH
- (5) PR. HOT-MIX ASPHALT SHOULDERS, 6.5"
- (6) PR. AGGREGATE SHOULDER, TYPE B, 8"
- (7) PR. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (8) PR. PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (9) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (10) PR. SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (11) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (12) PR. CONCRETE GUTTER, TYPE B
- (13) PR. MECHANICALLY STABILIZED EARTH RETAINING WALL
- (14) PR. CONCRETE BARRIER WALL (SPECIAL) / TRANSITION
- (15) PR. CONCRETE BARRIER BASE
- (16) PR. EMBANKMENT
- (17) PR. BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
- (18) PR. LONGITUDINAL JOINT SEALANT
- (19) PR. SHOULDERS, SPECIAL
- (20) PR. HOT-MIX ASPHALT SHOULDERS, 9"
- (21) PR. CONCRETE SHOULDER CURB

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 LICENSE NO:
 184-001220

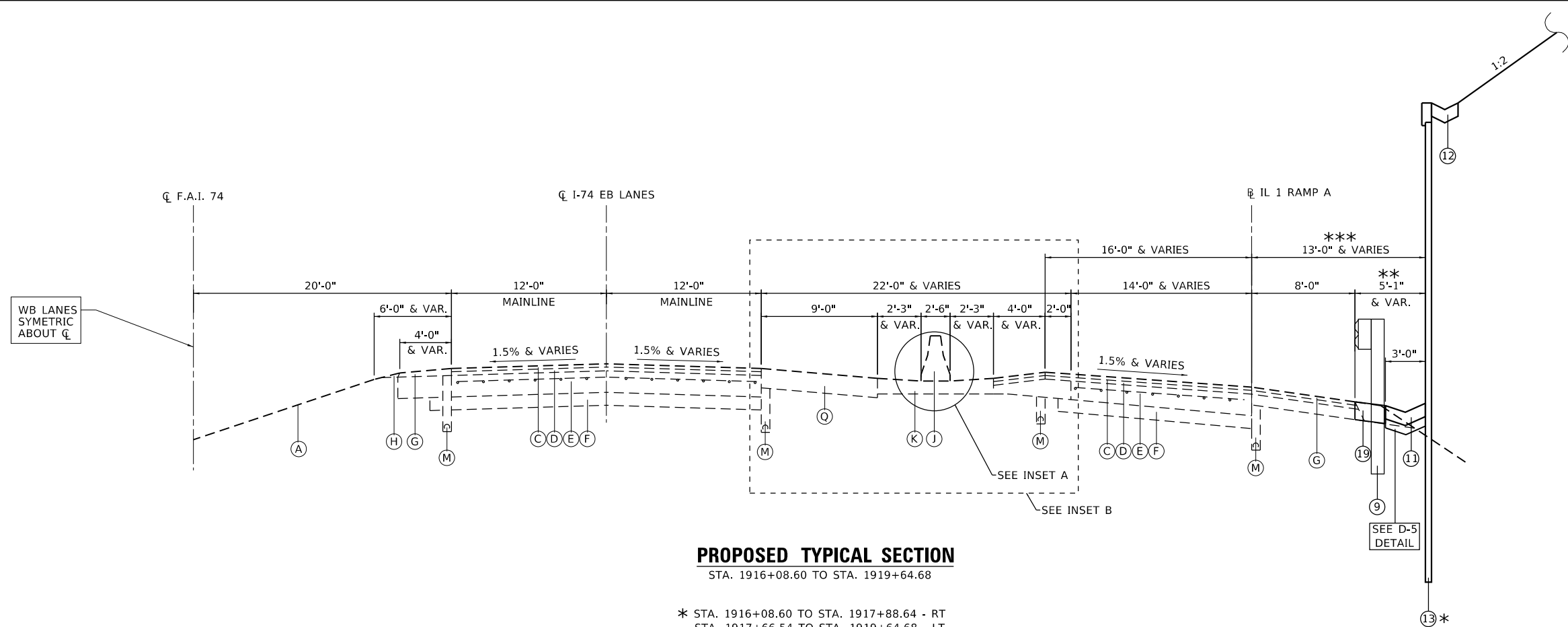
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PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
 TILTON ROAD**

SCALE: NTS SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	15
				CONTRACT NO. 90922
		ILLINOIS	FED. AID PROJECT	

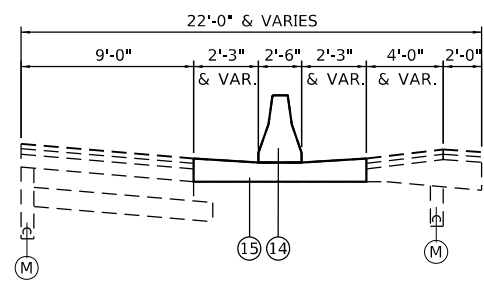


PROPOSED TYPICAL SECTION
STA. 1916+08.60 TO STA. 1919+64.68

* STA. 1916+08.60 TO STA. 1917+88.64 - RT
STA. 1917+66.54 TO STA. 1919+64.68 - LT
** VARIES 5'-0" TO 8'-0" - LT
*** VARIES 13'-1" TO 13'-6" - RT
VARIES 13'-0" TO 16'-0" - LT

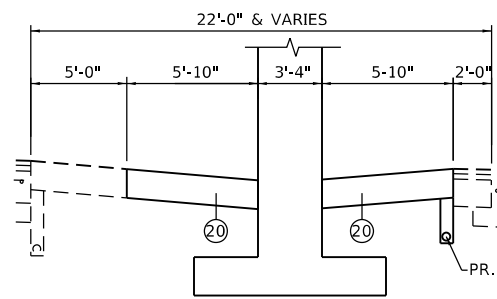
LEGEND

- (A) EX. GROUND
- (B) EX. PCC PAVEMENT, 9-6-9
- (C) EX. HMA SURFACE CSE, 1 1/2"
- (D) EX. HMA BINDER CSE, 1 3/4"
- (E) EX. PCC PAVEMENT, 10"
- (F) EX. AGGREGATE SUBBASE, 6"
- (G) EX. HMA SHOULDERS
- (H) EX. AGGREGATE SHOULDERS
- (I) EX. GUARDRAIL
- (J) EX. CONCRETE BARRIER, DOUBLE FACE
- (K) EX. CONCRETE BARRIER BASE
- (L) EX. SIDEWALK
- (M) EX. PIPE UNDERDRAIN
- (N) EX. HMA RESURFACING, 2 1/4"
- (O) EX. HMA BINDER COURSE, 1 1/4"
- (P) EX. PCC BASE COURSE WIDENING, 10"
- (Q) EX. HMA SHOULDER, 9"
- (1) PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- (2) PR. BITUMINOUS MATERIALS (TACK COAT)
- (3) PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- (4) PR. HOT-MIX ASPHALT BINDER COURSE, VARIABLE DEPTH
- (5) PR. HOT-MIX ASPHALT SHOULDERS, 6.5"
- (6) PR. AGGREGATE SHOULDER, TYPE B, 8"
- (7) PR. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (8) PR. PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (9) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (10) PR. SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (11) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (12) PR. CONCRETE GUTTER, TYPE B
- (13) PR. MECHANICALLY STABILIZED EARTH RETAINING WALL
- (14) PR. CONCRETE BARRIER WALL (SPECIAL) / TRANSITION
- (15) PR. CONCRETE BARRIER BASE
- (16) PR. EMBANKMENT
- (17) PR. BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
- (18) PR. LONGITUDINAL JOINT SEALANT
- (19) PR. SHOULDERS, SPECIAL
- (20) PR. HOT-MIX ASPHALT SHOULDERS, 9"
- (21) PR. CONCRETE SHOULDER CURB



INSET A

BETWEEN WB I-74 AND RAMP A BETWEEN EB I-74 AND RAMP A
STA. 1917+71.33 TO STA. 1917+85.50 LT STA. 1916+85.80 TO STA. 1917+05.80 RT
STA. 1917+85.50 TO STA. 1918+05.50 LT STA. 1917+51.80 TO STA. 1917+71.80 RT
STA. 1918+51.50 TO STA. 1918+71.50 LT STA. 1918+03.15 TO STA. 1918+13.15 RT



INSET B

STA. 1916+97.00 TO STA. 1917+62.00 - RT
STA. 1917+94.00 TO STA. 1918+59.00 - LT

NOTES

1. BITUMINOUS MATERIALS (TACK COAT) SHALL ALSO BE APPLIED BETWEEN ALL HMA LIFTS INCLUDING HMA SHOULDER LIFTS.
2. THE TOP 1.5" SHALL BE HMA SURFACE OF THE SAME USED FOR THE ROADWAY.
3. SEE SCHEDULES FOR LOCATIONS AND TYPES OF BINDER COURSE USED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
I-74

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 90922	

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USER NAME = jstein	DESIGNED - JWS	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

EARTHWORK SCHEDULE								
LOCATION				NOTES	EARTH EXCAVATION 20200100	FOR INFORMATION ONLY		
						EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
STA	TO	STA			CU YD	CU YD	CU YD	CU YD
TILTON RD.								
220+50.00	TO	223+10.00		END AREA	38	29	78	-50
223+10.00	TO	225+15.50	SOUTH	DTM	0	0	277	-277
225+15.50	TO	227+15.00	NORTH	DTM	52	39	477	-438
227+15.00	TO	229+00.00		END AREA	53	40	282	-242
I-74								
1919+00.00	TO	1918+08.15	EB	END AREA	31	23	851	-828
1918+00.00	TO	1920+00.00	WB	END AREA	26	20	1170	-1151
TOTAL :					200	150	3135	-2985
					20400800 FURNISHED EXC.=		2990	

TREE REMOVAL SCHEDULE				
LOCATION				TREE REMOVAL, ACRES
				20100500
STATION	TO	STATION	LT/RT	ACRE
TILTON ROAD				
222+80.00	TO	223+90.00	LT/RT	0.14
226+50.00	TO	228+00.00	LT/RT	0.24
PAY TOTAL :				0.50

SEEDING SCHEDULE										
LOCATION				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	HEAVY DUTY EROSION CONTROL BLANKET	TEMP. EROSION CONTROL SEEDING (POUND) (2 APPL.)
				25000210	25000400	25000500	25000600	25100115	25100635	28000250
STATION	TO	STATION	DESCRIPTION	ACRE	POUND	POUND	POUND	ACRE	SQ YD	POUND
TILTON ROAD										
220+50.00	TO	223+10.00	LT	0.082	7.4	7.4	7.4	0.082		16.4
220+50.00	TO	223+10.00	RT	0.074	6.7	6.7	6.7	0.074		14.8
227+15.00	TO	229+00.00	LT	0.133	12.0	12.0	12.0	0.133		26.6
227+15.00	TO	229+00.00	RT	0.028	2.5	2.5	2.5	0.028		5.6
I-74										
1915+90.00	to	1918+10.00	EB	0.118	10.6	10.6	10.6		572	23.6
1917+01.89	to	1918+56.18	MEDIAN	0.101	9.1	9.1	9.1	0.101		20.2
1917+50.00	to	1920+00.00	WB	0.204	18.4	18.4	18.4		986	40.8
TOTAL :				0.740	66.6	66.6	66.6	0.418	1558	148.0
PAY TOTAL :				0.75	70	70	70	0.50	1558	150

SIDEWALK SCHEDULE				
LOCATION				PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH
				42400100
STATION	TO	STATION	LT/RT	SQ FT
TILTON ROAD				
221+64.91	TO	223+35.56	LT	918.0
226+57.16	TO	228+65.15	LT	1157.4
TOTAL :				2075

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES	
SCALE: NONE	SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	17
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

REMOVAL SCHEDULE

LOCATION				HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SIDEWALK REMOVAL	PAVED SHOULDER REMOVAL	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL	FILLING EXISTING CULVERTS	STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 24"	DRAINAGE STRUCTURE TO BE REMOVED	CONCRETE BARRIER BASE REMOVAL	CONCRETE BARRIER REMOVAL	REMOVE IMPACT ATTENUATORS, NO SALVAGE	REMOVE ATTENUATOR BASE	
STATION	TO	STATION	NOTES	SQ YD	SQ YD	SQ YD	SQ FT	SQ YD	EACH	FOOT	CU YD	FOOT	FOOT	EACH	SQ FT	FOOT	EACH	EACH	
TILTON ROAD																			
220+50.00	TO	220+95.00	LT/RT	125.6															
220+95.00	TO	223+10.00	LT/RT			585.3													
221+64.91	TO	223+24.33	LT				739.1												
222+28.80	TO	223+27.62	LT					34.8											
223+10.00	TO	223+38.71	LT/RT		76.2														
226+80.68	TO	227+91.38	LT					27.3											
226+76.67	TO	228+65.16	LT				863.9												
226+92.64	TO	227+15.00	LT/RT		60.3														
227+15.00	TO	228+84.00	LT/RT			464.7													
227+81.84	TO	228+21.56	LT							41.2									
228+84.00	TO	229+00.00	LT/RT	44.7															
I-74																			
1915+99.27	TO	1917+34.57	RT						2	135.3									
1916+85.80	TO	1917+10.80	PIER 1												179.0	25			
1917+00.80	TO	1917+56.80	PIER 1					64.5											
1917+38.97			LT/RT															1	1
1917+46.80	TO	1917+71.80	PIER 1											1	167.6	25			
1917+64.72	TO	1917+64.51	12" RT								0.8	9.5							
1917+71.33	TO	1917+85.50	LT					5.3							93.4	14			
1917+73.33	TO	1917+79.33	LT					5.9											
1917+85.50	TO	1918+10.50	PIER 3											1	161.4	25			
1917+99.86	TO	1917+99.55	12" LT								0.8	8.0							
1918+00.50	TO	1918+56.50	PIER 3					65.4											
1918+03.15	TO	1918+13.15	RT					5.4							67.7	10			
1918+05.15	TO	1918+11.15	RT					5.5											
1918+20.46	TO	1919+49.05	LT						2	128.6									
1918+23.32			LT/RT															1	1
1918+46.50	TO	1918+71.50	PIER 3												167.5	25			
1919+52.95	TO	1919+62.95	LT					8.3											
1919+52.99	TO	1919+62.99	LT					4.1											
1919+60.00	TO	1919+59.91	24" LT										42.0						
TOTAL :				170	136	1050	1603	226	4	305	1.6	18	42	2	837	124	2	2	

INLET AND PIPE PROTECTION SCHEDULE					
STATION			INLET AND PIPE PROTECTION		
			28000500		
LOCATION			EACH		
TILTON ROAD					
	228+57.93	32.33	LT	1	
I-74					
	1916+66.18	2.24	LT	1	
	1916+99.70	9.80	LT	1	
	1918+85.59	2.24	LT	1	
TOTAL :				4	

EROSION BARRIER SCHEDULE				
LOCATION			PERIMETER EROSION BARRIER	
			28000400	
STATION	TO	STATION	FOOT	
TILTON ROAD				
220+46.82	TO	224+56.66	RT	437.8
221+64.98	TO	223+08.93	LT	156.3
226+63.97	TO	228+65.81	LT	199.5
227+20.41	TO	229+01.87	RT	211.8
TOTAL :				1,005

DITCH CHECK SCHEDULE					
LOCATION				TEMPORARY DITCH CHECKS	
				28000305	
STATION	TO	STATION	EA	FOOT	
TILTON ROAD					
220+50.00	TO	223+52.13	LT	1	8.0
226+75.48	TO	229+00.00	LT	5	40.0
I-74					
1916+08.60	TO	1919+64.68	LT	3	48.0
TOTAL :				96	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	18
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

STAGING SCHEDULE													
LOCATION				TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE C	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING REMOVAL	PAVEMENT MARKING BLACKOUT TAPE 5"
				X2700001	70400100	70400200	X7040125	78200011	70600250	70600260	70300220	X7030005	70107005
STATION				EACH	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT	SQ FT	FOOT
STAGE 1													
1915+21.00	TO	1918+50.00	RT	8	329		75	4		1			
1915+50.00	TO	1919+00.00	RT		350			5		1			
1916+50.00	TO	1921+00.00	LT	8	450			6		1			
1917+40.00	TO	1920+54.00	LT		314		72	4		1			
STAGE 2													
1914+00.00	TO	1919+04.00	RT								505	168	
1914+00.00	TO	1915+50.00	RT										150
1914+45.00	TO	1918+54.00	RT						1				
1917+00.00	TO	1920+00.00	LT		145	1443	360	18		1			
1917+00.00	TO	1921+36.00	LT							1			
1917+00.00	TO	1918+00.00	LT										100
1917+00.00	TO	1922+50.00	LT								550	183	
1918+50.00	TO	1919+00.00	RT										50
1921+00.00	TO	1922+50.00	LT										150
TOTAL :				16	1588	1443	507	37	1	6	1055	352	450

GUARDRAIL SCHEDULE												
LOCATION				NOTES	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE B	TERMINAL MARKER - DIRECT APPLIED
					63200310	63000001	63100167	63100045	63100085	78200005	78200010	72501000
STA	TO	STA			FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
TILTON RD.												
221+61.51	TO	223+50.90	RT		190							
222+37.15	TO	223+14.50	LT		77							
222+59.35	TO	223+47.31	LT				1		1	2		1
222+97.61	TO	223+84.75	RT				1		1	2		1
223+47.31	TO	226+43.21	LT	BRIDGE							4	
223+84.75	TO	226+77.63	RT	BRIDGE							4	
226+43.21	TO	227+31.17	LT				1		1	2		1
226+77.63	TO	227+64.70	RT				1		1	2		1
226+81.57	TO	227+85.57	LT		103							
227+06.03	TO	227+95.78	RT		90							
I-74 WB												
1918+14.50	TO	1920+39.50	LT			162.5	1	1		3		1
I-74 EB												
1915+37.50	TO	1918+62.50	RT		326	325.0				5		
TOTAL :					787	487.5	5	1	4	16	8	5

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	19
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

STORM SEWERS																				
LOCATION										STORM SEWER				PIPE DRAINS 12"	PIPE CULVERT, CLASS A		CONCRETE THRUST BLOCKS	TRENCH BACKFILL		
										CLASS A					TYPE 1	TYPE 3			TYPE 1	TYPE 3
										TYPE 1	TYPE 2		TYPE 3							
										36 INCH	12 INCH	24 INCH	36 INCH		15 INCH	36 INCH				
550A0160	550A0340	550A0410	550A0750	60100945	542A0220	542A1921	61000050	20800150												
PIPE	STR.	STATION	OFFSET	LT/RT	TO	STR.	STATION	OFFSET	LT/RT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	CU YD			
TILTON ROAD																				
300	300	228+57.93	32.33	LT	TO	301	227+98.11	39.35	LT						62.8		3.1			
I-74																				
200	200	1915+99.27	102.30	RT	TO	201	1917+54.68	103.57	RT							155.5				
202	202	1918+08.15	56.63	RT	TO	203	1918+08.15	104.13	RT		42.4						4.0			
204	204	1919+59.81	57.71	LT	TO	205	1919+54.84	107.34	LT			48.9					8.1			
206	206	1917+76.33	56.40	LT	TO	207	1917+76.33	102.33	LT		40.9						4.4			
208	208	1917+99.87	104.26	LT	TO	205	1919+54.84	107.34	LT				155.0							
210	205	1919+54.84	107.34	LT	TO	209	1919+74.80	109.15	LT	20.0										
212	210	1916+87.06	131.77	RT	TO	211	1916+97.62	141.95	RT					11.2			0.5			
214	212	1919+17.76	131.57	LT	TO	213	1919+84.29	117.19	LT					71.7		1	2.1			
TOTAL :										20	83	49	155	83	63	156	1	22		

DRAINAGE STRUCTURES												
STATION				MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	TYPE E INLET BOX, STANDARD 610001	TYPE G INLET BOX, STANDARD 610001	DRAINAGE STRUCTURES, TYPE 4 SPECIAL WITH TWO TYPE 20 FRAME AND GRATES	PRECAST REINFORCED CONCRETE FLARED END SECTIONS,		CONCRETE END SECTION, STANDARD 542001, 36", 1:2	CONCRETE END SECTION, STANDARD 542001, 36", 1:3	METAL FLARED END SECTIONS, 12"
								12"	15"			
STR.	STATION	OFFSET	LT/RT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
TILTON ROAD												
300	228+57.93	32.33	LT							1		
301	227+98.11	39.35	LT							1		
I-74												
200	1915+99.27	102.30	RT								1	
201	1917+54.68	103.57	RT							1		
202	1918+08.15	56.63	RT			1						
203	1918+08.15	104.13	RT					1				
205	1919+54.84	107.34	LT	1								
206	1917+76.33	56.40	LT			1						
207	1917+76.33	102.33	LT					1				
208	1917+99.87	104.26	LT						1			
209	1919+74.80	109.15	LT						1			
210	1916+87.06	131.77	RT			1						
211	1916+97.62	141.95	RT									1
212	1919+17.76	131.57	LT		1							
213	1919+84.29	117.19	LT									1
TOTAL :				1	1	1	2	2	2	3	1	2

PIPE UNDERDRAIN SCHEDULE				
LOCATION				PIPE UNDERDRAINS 4" (MODIFIED)
STATION	TO	STATION	LT/RT	FOOT
				X6013600
I-74				
1917+00.80	TO	1917+56.80	PIER 1 RT	56.0
1917+73.33	TO	1917+79.33	LT	12.0
1918+00.50	TO	1918+56.50	PIER 3 LT	56.0
1918+05.15	TO	1918+11.15	RT	12.0
1919+52.95	TO	1919+62.95	LT	20.0
TOTAL :				156

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	20
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE

LOCATION				SUBBASE GRANULAR MATERIAL, TYPE A	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	HOT-MIX ASPHALT SHOULDERS, 9"	SHOULDERS, SPECIAL	AGGREGATE SHOULDERS, TYPE B 8"	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	BITUMINOUS MATERIALS (TACK COAT)	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	LONGITUDINAL JOINT SEALANT	CLASS B PATCHES, TYPE II, 14 INCH	*PROTECTIVE COAT
				31100100	48203023	48203033	X0964700	48101600	40604050	40602965	40603080	40600290	X4201410	Z0033700	44201019	42001300
STATION	TO	STATION	LT/RT	TON	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	POUND	SQ YD	FOOT	SQ YD	SQ YD
TILTON ROAD																
220+50.00	TO	223+52.13												302.1		
220+50.00	TO	223+10.00	LT/RT						58.5	19.1	133.7	579.5				
220+50.00	TO	223+10.00	RT		144.4				12.3			195.0				
220+54.88	TO	221+81.88	LT		70.6				6.0			31.8				
221+81.88	TO	223+10.00	LT	11.4	49.8				4.2			22.4				
222+50.97	TO	223+84.72	RT					57.0								
223+10.00	TO	223+52.13	LT/RT	29.0									157.7			158.2
227+15.00	TO	228+40.92	LT		49.0				4.1			22.0				
226+75.48	TO	229+00.00												224.5		
226+75.48	TO	227+15.00	LT/RT	29.6									148.1			148.5
226+77.54	TO	228+26.76	RT					94.1								
227+15.00	TO	229+00.00	RT	11.0	102.8				8.7			46.3				
227+15.00	TO	229+00.00	LT/RT						41.7	16.8	141.9	454.5				
228+40.92	TO	229+00.00	LT		32.8				2.8			14.8				
TOTAL:				81	449	138	124	151	138	36	276	1366	306	527	43	307

*CURB AND GUTTER AND CONCRETE BARRIER SHCEDULE FOR ADDITIONAL QUANTITY

CURB AND GUTTER SCHEDULE

LOCATION				COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	CONCRETE GUTTER, TYPE A (SPECIAL)	CONCRETE SHOULDER CURB	CLASS SI CONCRETE (OUTLET)	*PROTECTIVE COAT
				60604400	X6062700	66201120	60600095	42001300
STATION	TO	STATION	LT/RT	FOOT	FOOT	FOOT	CU YD	SQ YD
TILTON ROAD								
221+60.31	TO	222+05.97	LT				3.8	19.8
222+05.97	TO	223+37.53	LT	130.0				30.1
223+48.39	TO	223+68.80	RT			20.5		
226+62.95	TO	228+16.76	LT	154.7				35.8
226+91.74	TO	227+07.07	RT			15.4		
228+16.76	TO	228+62.49	LT				3.8	19.7
I-74								
1916+06.92	TO	1917+37.58	RT		132.9			44.3
1917+37.58	TO	1917+95.85	RT				5.11	27.7
1918+14.97	TO	1919+52.10	LT		137.1			45.7
1919+52.10	TO	1919+91.94	LT				3.32	19.9
TOTAL:				285	270	36	16.0	243

*SEE PAVING AND CONCRETE BARRIER SCHEDULE FOR ADDITIONAL QUANTITY

CONCRETE BARRIER SCHEDULE

LOCATION				CONCRETE BARRIER BASE	CONCRETE BARRIER WALL (SPECIAL)	CONCRETE BARRIER TRANSITION	*PROTECTIVE COAT
				63700900	X6370050	63700805	42001300
STATION	TO	STATION	LOCATION	FOOT	FOOT	FOOT	SQ YD
I-74							
1916+85.80	TO	1917+05.80	PIER 1	20.0		20.0	21.7
1917+51.80	TO	1917+71.80	PIER 1	20.0		20.0	21.7
1917+71.33	TO	1917+85.50	PACTH LT	14.2	14.2		15.4
1917+85.50	TO	1918+05.50	PIER 3	20.0		20.0	21.7
1918+03.15	TO	1918+13.15	PATCH RT	10.0	10.0		10.8
1918+51.50	TO	1918+71.50	PIER 3	20.0		20.0	21.7
TOTAL:				104	24	80	113

*SEE PAVING AND CURB AND GUTTER SCHEDULE FOR ADDITIONAL QUANTITY

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TWM, INC.
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IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = jstein
DESIGNED - JWS
DRAWN - JWS
CHECKED - SJK
DATE - AUGUST 2020

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	21
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE						
LOCATION					PAINT PAVEMENT MARKING - LINE 4"	
					WHITE	YELLOW
					78001110	
STATION	TO	STATION	LOCATION	TYPE	FOOT	FOOT
TILTON ROAD						
220+50.00	TO	229+00.00	CENTERLINE	SKIP-DASH		212.5
			EDGE LINE LT	SOLID LINE	850.0	
			EDGE LINE RT	SOLID LINE	850.0	
I - 74						
1917+73.33	TO	1917+79.33	EDGE LINE LT	SOLID LINE		6.0
			EDGE LINE RT	SOLID LINE	6.0	
1918+05.15	TO	1918+11.15	EDGE LINE LT	SOLID LINE		6.0
			EDGE LINE RT	SOLID LINE	6.0	
1919+52.95	TO	1919+62.95	EDGE LINE LT	SOLID LINE		10.0
			EDGE LINE RT	SOLID LINE	10.0	
TOTAL :					1722	235
					1957	

IMPACT ATTENUATORS SCHEDULE					
LOCATION			IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	ATTENUATOR BASE	
STATION	OFFSET	STATION	EACH	SQ YD	
I - 74					
1917+18.41	TO	1917+50.64	RT	1	27.3
1918+10.03	TO	1918+42.26	LT	1	27.3
TOTAL :			2	55	

FENCE SCHEDULE					
LOCATION				CHAIN LINK FENCE, 4'	FENCE REMOVAL
				66400105	Z0022800
STATION				FOOT	FOOT
TILTON ROAD					
222+82.19	TO	223+11.51	LT		30.8
222+82.19	TO	223+48.13	LT	65.5	
223+34.67	TO	223+45.97	RT		15.5
223+34.67	TO	224+09.28	RT	75.1	
226+20.26	TO	227+15.78	LT	96.0	
226+80.93	TO	227+15.78	LT		44.0
226+76.16	TO	227+42.22	RT	66.9	
227+13.06	TO	227+42.22	RT		30.5
TOTAL :				303	121

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 LICENSE NO:
 184-001220

USER NAME = jstein
 DESIGNED - JWS
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 CHECKED - SJK
 DATE - AUGUST 2020

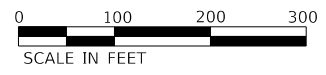
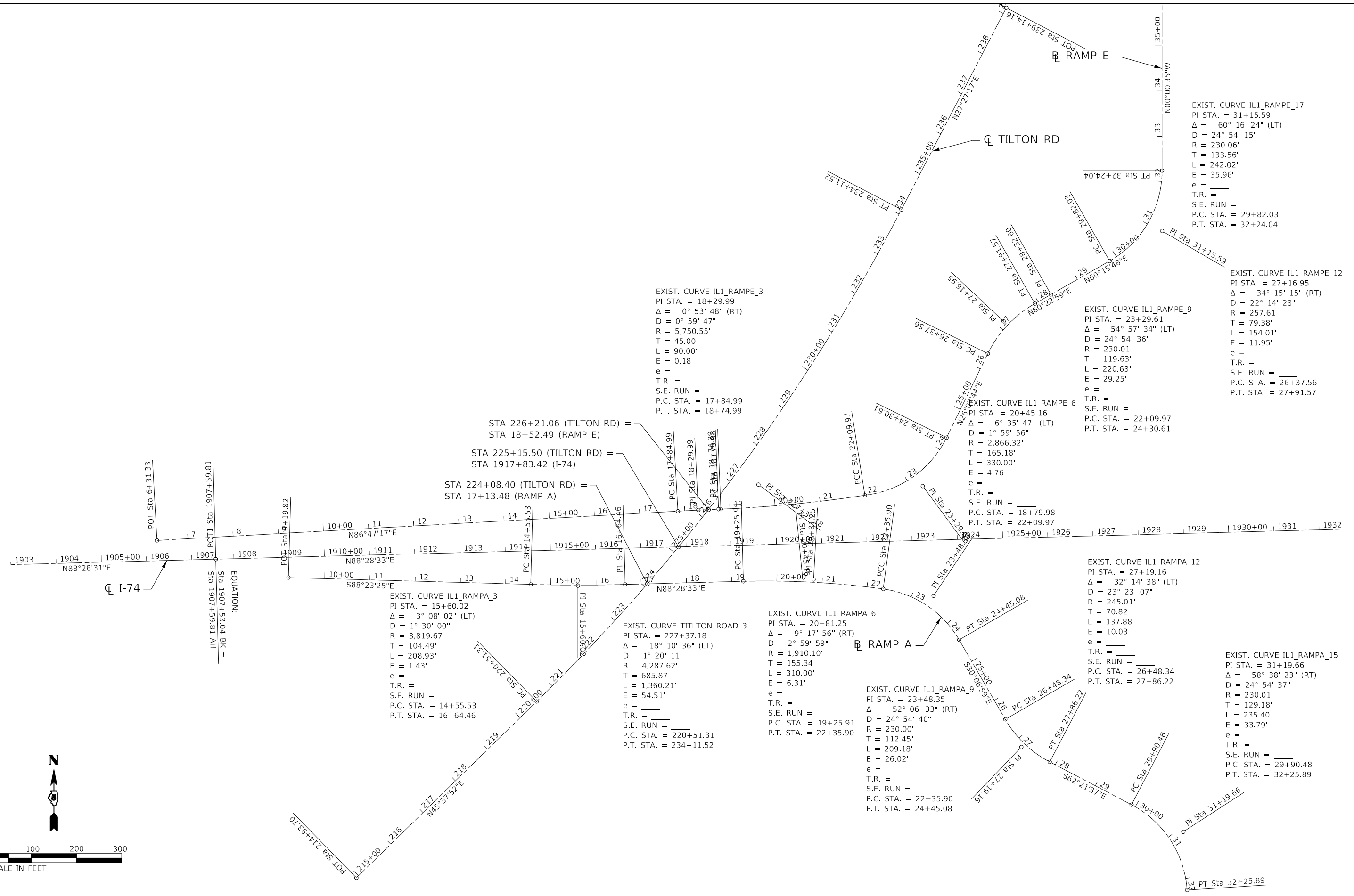
REVISED -
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 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	22
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



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USER NAME = smaxwell	DESIGNED - NLS	REVISED -
PLOT SCALE = 200.0000' / in.	DRAWN - NLS	REVISED -
PLOT DATE = 7/30/2020	CHECKED - SDM	REVISED -
	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, & BENCHMARKS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	23
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

CONTROL POINTS

FAI 74 ALIGNMENT							
POINT	DESC.	NORTHING	EASTING	STATION	OFFSET	LT/RT	COMMENT
5582	P.O.T.	1,260,941.80	1,151,316.89	1625+97.16	0.00		NOT SHOWN ON SHEET
9	P.C.	1,260,953.53	1,154,168.56	1654+48.86	0.00		NOT SHOWN ON SHEET
	P.I.	1,260,958.77	1,155,443.36	1667+23.67	158.54	LT	NOT SHOWN ON SHEET
	P.T.	1,260,357.91	1,156,567.68	1679+46.22	0.00		NOT SHOWN ON SHEET
5672	P.O.T.	1,260,008.34	1,157,221.80	1686+87.88	0.00		STA EQ (NOT SHOWN ON SHEET)
				1687+00.00	0.00		AHEAD (NOT SHOWN ON SHEET)
10	P.C.	1,258,465.87	1,160,108.08	1719+72.60	0.00		NOT SHOWN ON SHEET
	P.I.	1,257,979.91	1,161,017.42	1730+03.64	30.71	LT	NOT SHOWN ON SHEET
	P.T.	1,257,389.33	1,161,862.57	1740+32.25	0.00		NOT SHOWN ON SHEET
30026	P.I.	1,254,807.50	1,165,557.37	1785+39.73	0.00		NOT SHOWN ON SHEET
11	P.C.	1,253,367.58	1,167,618.51	1810+54.02	0.00		NOT SHOWN ON SHEET
	P.I.	1,252,646.89	1,168,650.12	1823+12.44	201.92	RT	NOT SHOWN ON SHEET
	P.T.	1,252,680.37	1,169,908.09	1834+85.34	0.00		NOT SHOWN ON SHEET
213	P.O.T.	1,252,873.74	1,177,173.22	1907+53.04	0.00		STA EQ
				1907+59.81	0.00		AHEAD
12	P.C.	1,252,972.04	1,180,867.30	1944+55.20	0.00		NOT SHOWN ON SHEET
	P.I.	1,253,006.44	1,182,160.04	1957+48.40	212.98	RT	NOT SHOWN ON SHEET
	P.T.	1,253,819.09	1,183,166.01	1969+49.06	0.00		NOT SHOWN ON SHEET
229	P.O.T.	1,254,975.29	1,184,597.24	1987+88.96	0.00		STA EQ (NOT SHOWN ON SHEET)
				1987+92.50	0.00		AHEAD (NOT SHOWN ON SHEET)
13	P.C.	1,255,506.84	1,185,255.24	1996+38.38	0.00		NOT SHOWN ON SHEET
	P.I.	1,256,299.63	1,186,236.64	2008+99.99	202.93	LT	NOT SHOWN ON SHEET
	P.T.	1,256,352.06	1,187,497.16	2020+75.45	0.00		NOT SHOWN ON SHEET
215	P.O.T.	1,256,398.65	1,188,617.20	2031+96.45	0.00		NOT SHOWN ON SHEET

TILTON RD ALIGNMENT							
POINT	DESC.	NORTHING	EASTING	STATION	OFFSET	LT/RT	COMMENT
R121	P.O.T.	1,252,169.14	1,177,484.23	214+93.70	0.00		
L10	P.C.	1,252,559.06	1,177,882.84	220+51.31	0.00		
	P.I.	1,253,038.67	1,178,373.13	227+37.18	54.51	RT	
	P.T.	1,253,647.29	1,178,689.35	234+11.52	0.00		
R124	P.O.T.	1,254,093.32	1,178,921.09	239+14.16	0.00		

IL 1 RAMP A ALIGNMENT							
POINT	DESC.	NORTHING	EASTING	STATION	OFFSET	LT/RT	COMMENT
A1	P.O.T.	1,252,833.00	1,177,334.01	9+19.82	0.00		
A2	P.C.	1,252,817.95	1,177,869.51	14+55.53	0.00		
	P.I.	1,252,815.02	1,177,973.96	15+60.02	1.43	RT	
	P.T.	1,252,817.80	1,178,078.41	16+64.46	0.00		
A3	P.C.	1,252,824.75	1,178,339.77	19+25.91	0.00		
	P.I.	1,252,828.88	1,178,495.05	20+81.25	6.31	LT	
	P.C.C.	1,252,807.87	1,178,648.97	22+35.90	0.00		
A5	P.C.C.	1,252,807.87	1,178,648.97	22+35.90	0.00		
	P.I.	1,252,792.66	1,178,760.38	23+48.35	26.02	LT	
	P.T.	1,252,695.39	1,178,816.80	24+45.08	0.00		
A6	P.C.	1,252,519.57	1,178,918.79	26+48.34	0.00		
	P.I.	1,252,458.31	1,178,954.32	27+19.16	10.03	RT	
	P.T.	1,252,425.46	1,179,017.06	27+86.22	0.00		
A7	P.C.	1,252,330.70	1,179,198.01	29+90.48	0.00		
	P.I.	1,252,270.77	1,179,312.45	31+19.66	33.79	LT	
	P.T.	1,252,141.86	1,179,320.83	32+25.89	0.00		

IL 1 RAMP E ALIGNMENT							
POINT	DESC.	NORTHING	EASTING	STATION	OFFSET	LT/RT	COMMENT
E1	P.O.T.	1,252,915.29	1,177,043.23	6+31.33	0.00		
E3	P.C.	1,252,979.93	1,178,195.08	17+84.99	0.00		
	P.I.	1,252,982.45	1,178,240.01	18+29.99	0.18	LT	
	P.T.	1,252,984.27	1,178,284.97	18+74.99	0.00		
E4	P.C.	1,252,984.47	1,178,289.96	18+79.98	0.00		
	P.I.	1,252,991.15	1,178,455.00	20+45.16	4.76	RT	
	P.C.C.	1,253,016.73	1,178,618.19	22+09.97	0.00		
E5A	P.C.C.	1,253,016.73	1,178,618.19	22+09.97	0.00		
	P.I.	1,253,035.27	1,178,736.38	23+29.61	29.25	RT	
	P.T.	1,253,142.67	1,178,789.07	24+30.61	0.00		
E6	P.C.	1,253,328.48	1,178,880.21	26+37.56	0.00		
	P.I.	1,253,399.75	1,178,915.17	27+16.95	11.95	LT	
	P.T.	1,253,438.98	1,178,984.18	27+91.57	0.00		
R146	P.I.	1,253,459.26	1,179,019.84	28+32.60	0.00		
E20	P.C.	1,253,533.37	1,179,149.59	29+82.03	0.00		
	P.I.	1,253,599.62	1,179,265.57	31+15.59	35.96	RT	
	P.T.	1,253,733.18	1,179,265.54	32+24.04	0.00		
R142	P.O.T.	1,254,219.56	1,179,265.46	37+10.42	0.00		NOT SHOWN ON SHEET

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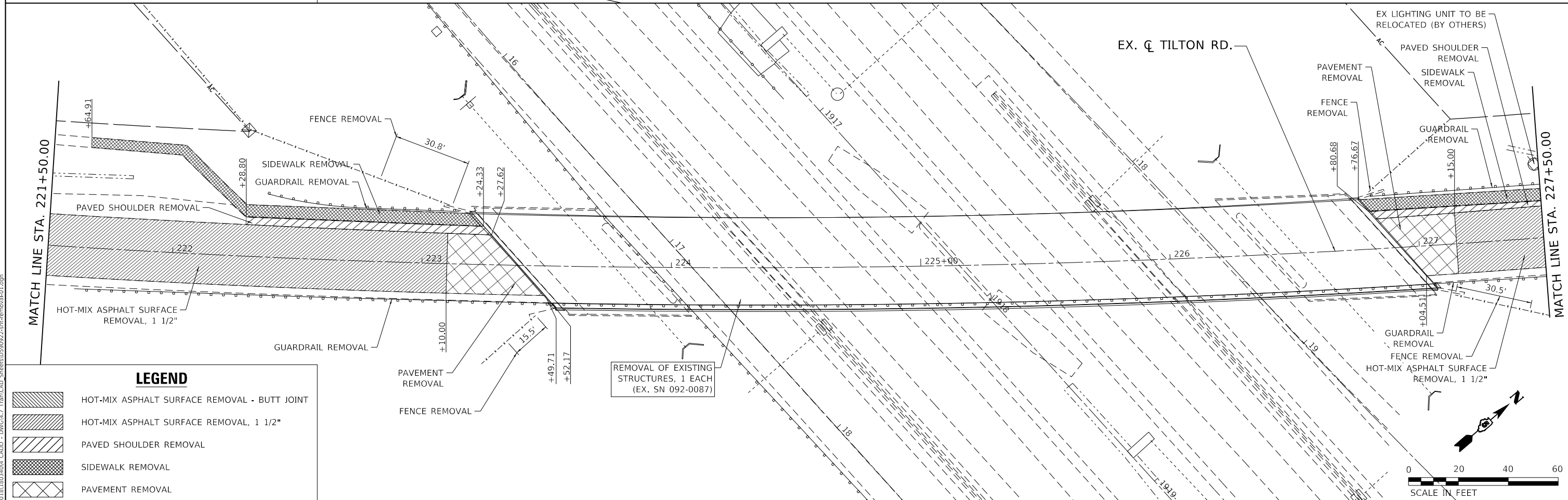
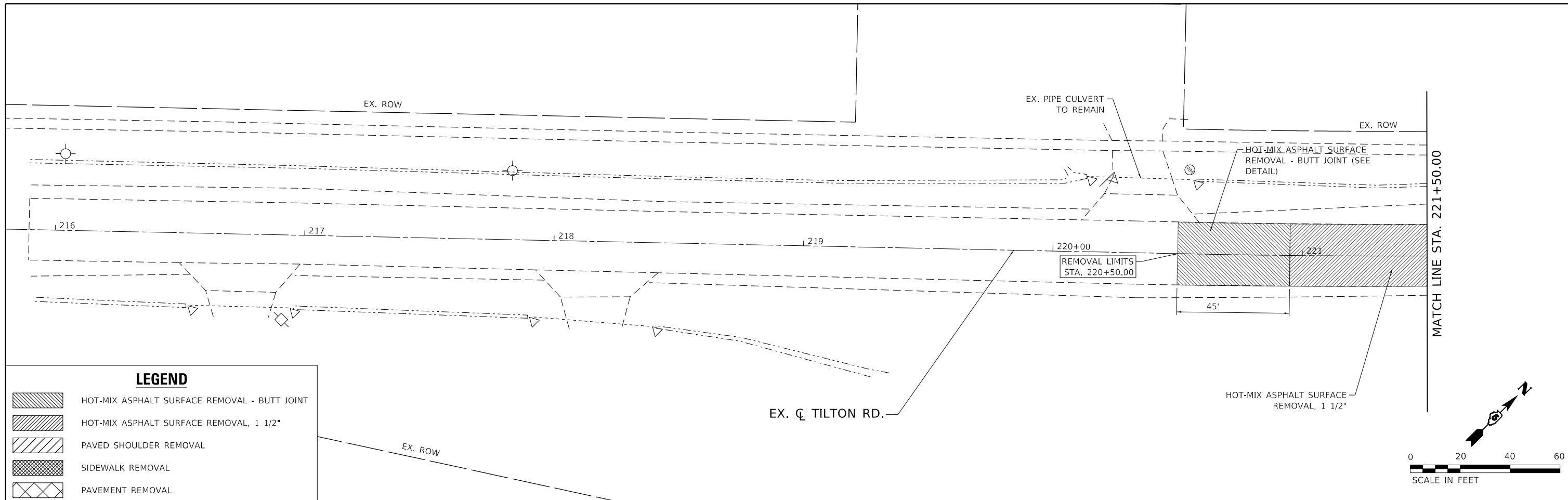
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	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, & BENCHMARKS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	24
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



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 TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES

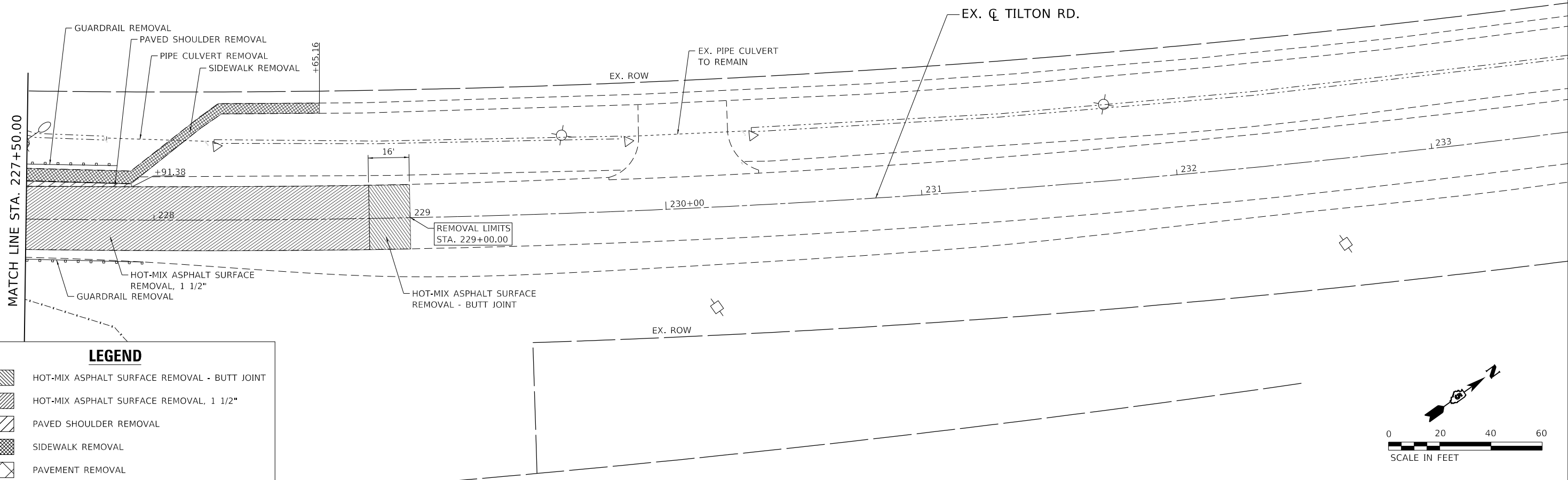
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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20'		SHEET 1	OF 3 SHEETS	STA. 220+50.00	TO STA. 227+50.00
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REMOVAL PLAN
TILTON RD.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	25
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- PAVED SHOULDER REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL

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


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DRAWN - JWS	REVISIONS -	
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PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN TILTON RD.			
SCALE: 1" = 20'	SHEET 2	OF 3 SHEETS	STA. 227+50.00 TO STA. 229+00.00

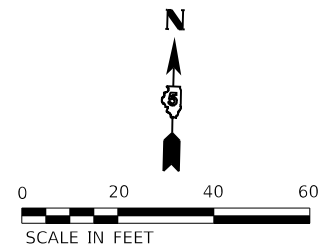
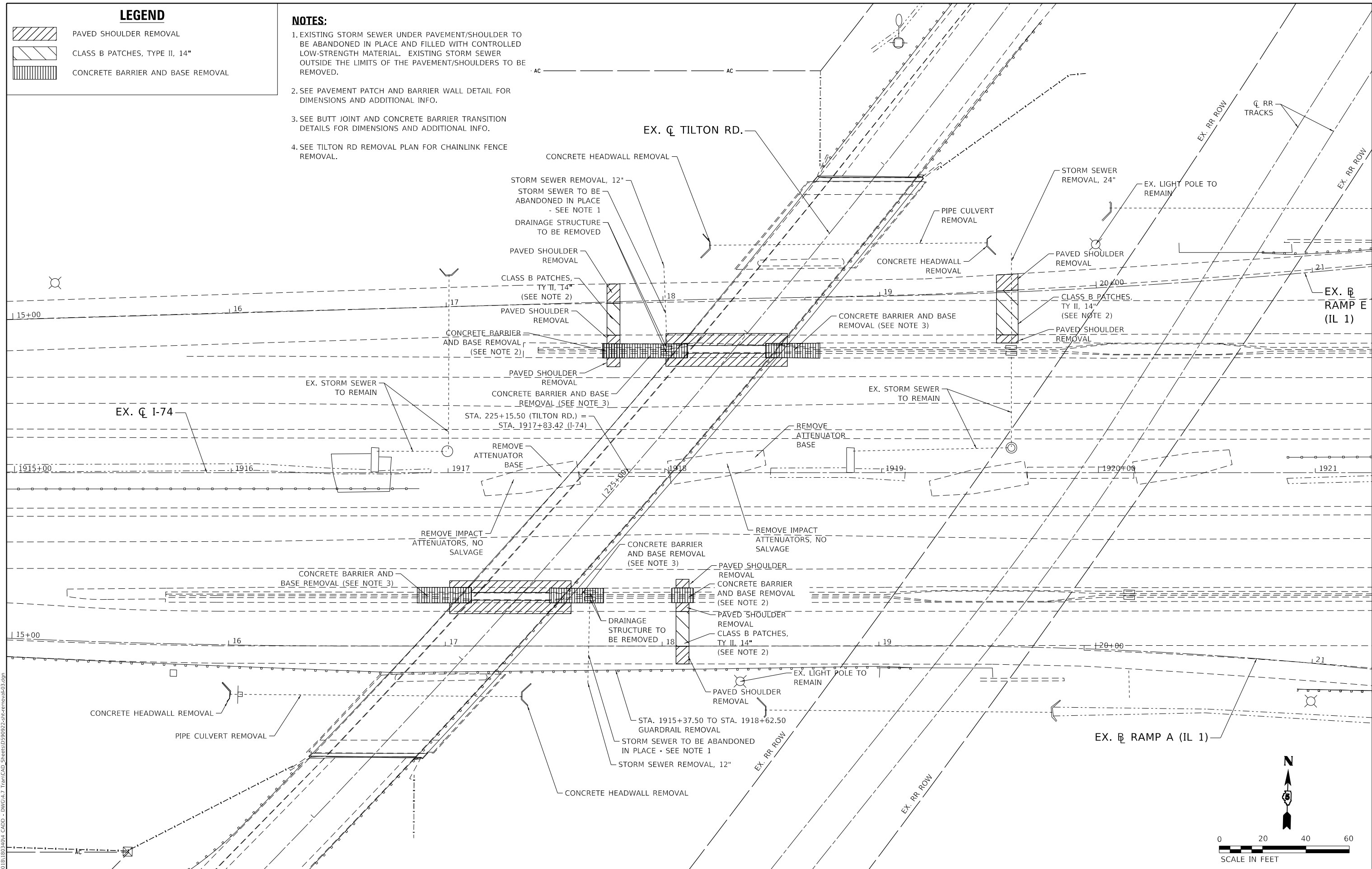
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74	(92-11HB-4)BR	VERMILION	133	26
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVED SHOULDER REMOVAL
-  CLASS B PATCHES, TYPE II, 14"
-  CONCRETE BARRIER AND BASE REMOVAL

NOTES:

1. EXISTING STORM SEWER UNDER PAVEMENT/SHOULDER TO BE ABANDONED IN PLACE AND FILLED WITH CONTROLLED LOW-STRENGTH MATERIAL. EXISTING STORM SEWER OUTSIDE THE LIMITS OF THE PAVEMENT/SHOULDERS TO BE REMOVED.
2. SEE PAVEMENT PATCH AND BARRIER WALL DETAIL FOR DIMENSIONS AND ADDITIONAL INFO.
3. SEE BUTT JOINT AND CONCRETE BARRIER TRANSITION DETAILS FOR DIMENSIONS AND ADDITIONAL INFO.
4. SEE TILTON RD REMOVAL PLAN FOR CHAINLINK FENCE REMOVAL.



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 LICENSE NO: 184-001220

USER NAME = jstein	DESIGNED - JWS	REVISED -
	DRAWN - JWS	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 I-74**

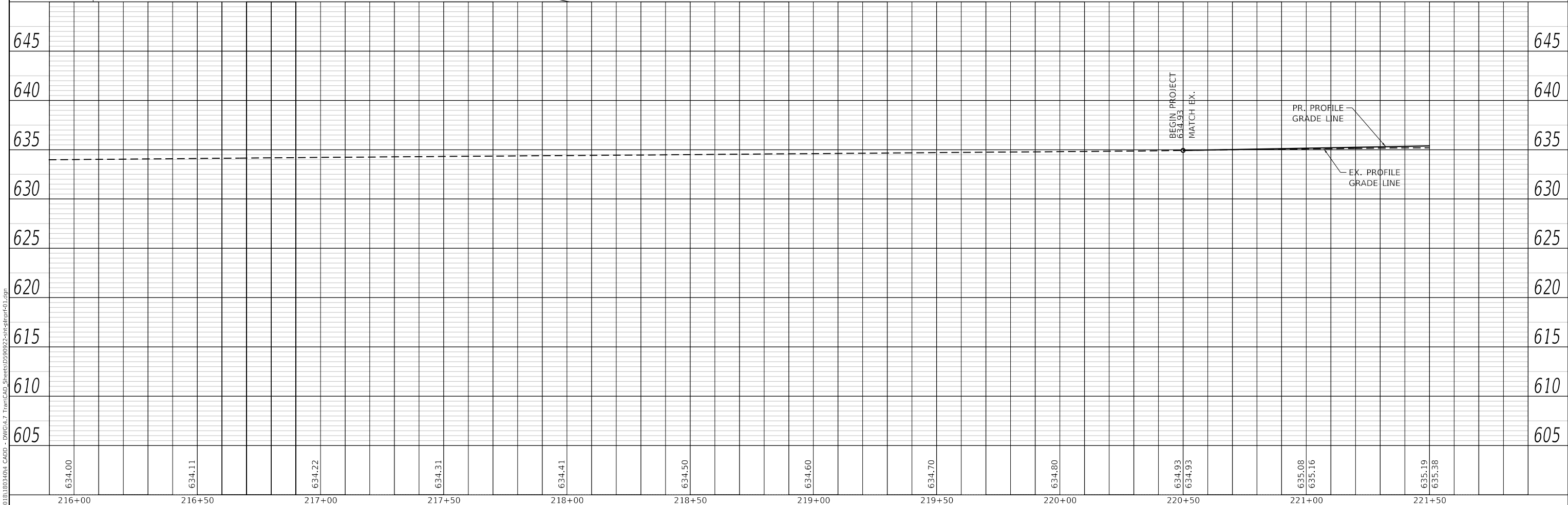
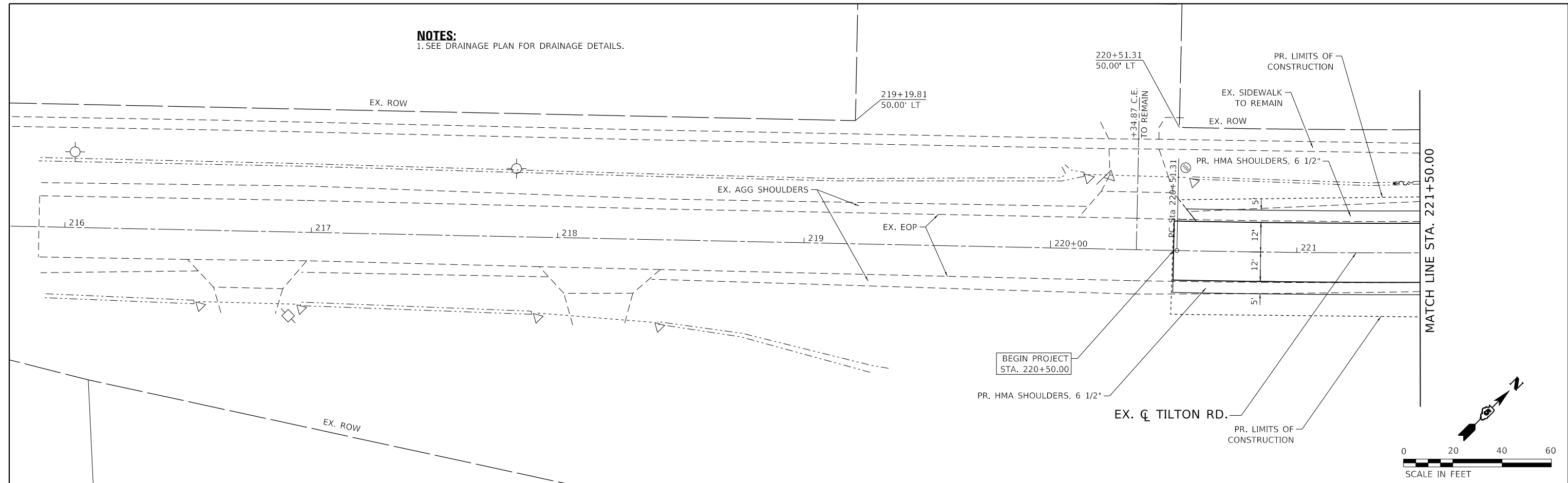
SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	27
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

NOTES:
1. SEE DRAINAGE PLAN FOR DRAINAGE DETAILS.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	



216+00	216+50	217+00	217+50	218+00	218+50	219+00	219+50	220+00	220+50	221+00	221+50
634.00	634.11	634.22	634.31	634.41	634.50	634.60	634.70	634.80	634.93 634.93	635.08 635.16	635.19 635.38

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = jstein	DESIGNED - JWS	REVISIED -
		PLOT SCALE = 40,0000 ' / in.	DRAWN - JWS	REVISIED -
		PLOT DATE = 8/4/2020	CHECKED - SJK	REVISIED -
			DATE - AUGUST 2020	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
TILTON RD.**

SCALE: 1" = 20' SHEET 1 OF 4 SHEETS STA. TO STA.

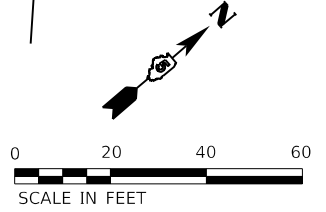
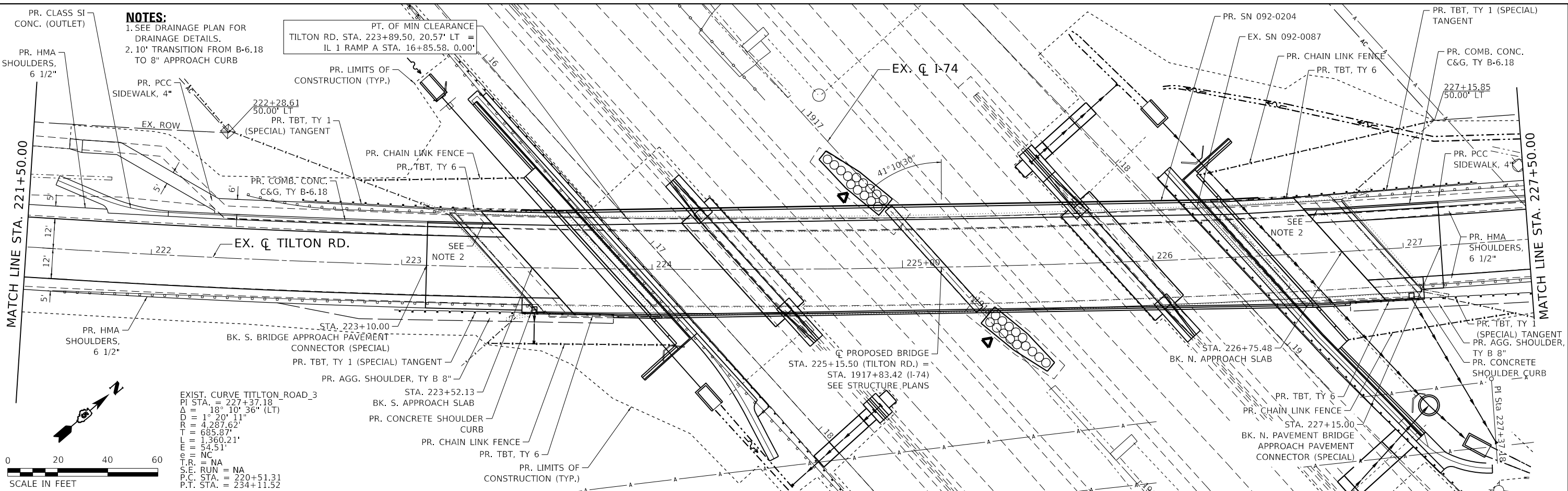
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	28
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

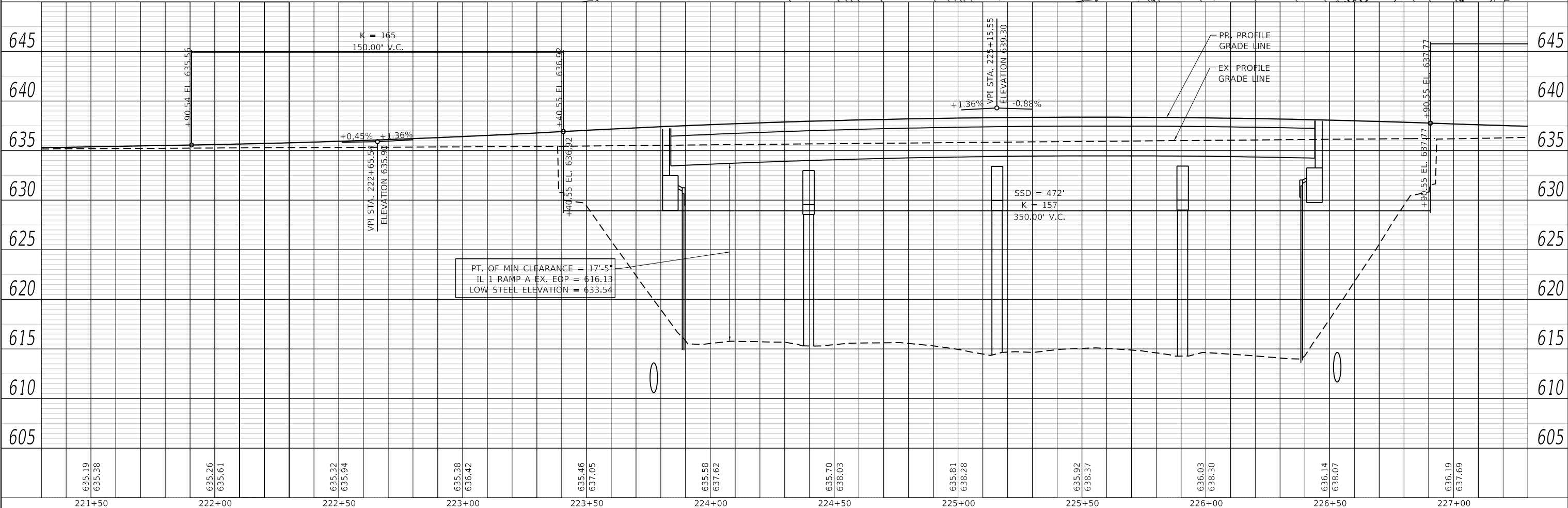
DATE	
BY	
PROFILE	
NO.	

NOTES:
 1. SEE DRAINAGE PLAN FOR DRAINAGE DETAILS.
 2. 10' TRANSITION FROM B-6.18 TO 8" APPROACH CURB

PT. OF MIN CLEARANCE
 TILTON RD, STA. 223+89.50, 20.57' LT =
 IL 1 RAMP A STA. 16+85.58, 0.00'



EXIST. CURVE TILTON ROAD_3
 PI STA. = 227+37.18
 $\Delta = 18^\circ 10' 36''$ (LT)
 $RD = 1^\circ 20' 11''$
 $PI = 4287.62'$
 $PC = 685.87'$
 $PT = 1360.21'$
 $EA = 54.51'$
 NC
 TYP. = NA
 RUN = NA
 STA. = 220+51.31
 P.T. STA. = 234+11.52



221+50	222+00	222+50	223+00	223+50	224+00	224+50	225+00	225+50	226+00	226+50	227+00
635.19 635.38	635.26 635.61	635.32 635.94	635.38 636.42	635.46 637.05	635.58 637.62	635.70 638.03	635.81 638.28	635.92 638.37	636.03 638.30	636.14 638.07	636.19 637.69

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 LICENSE NO:
 184-001220

USER NAME = jstein	DESIGNED - JWS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - JWS	REVISED -
PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

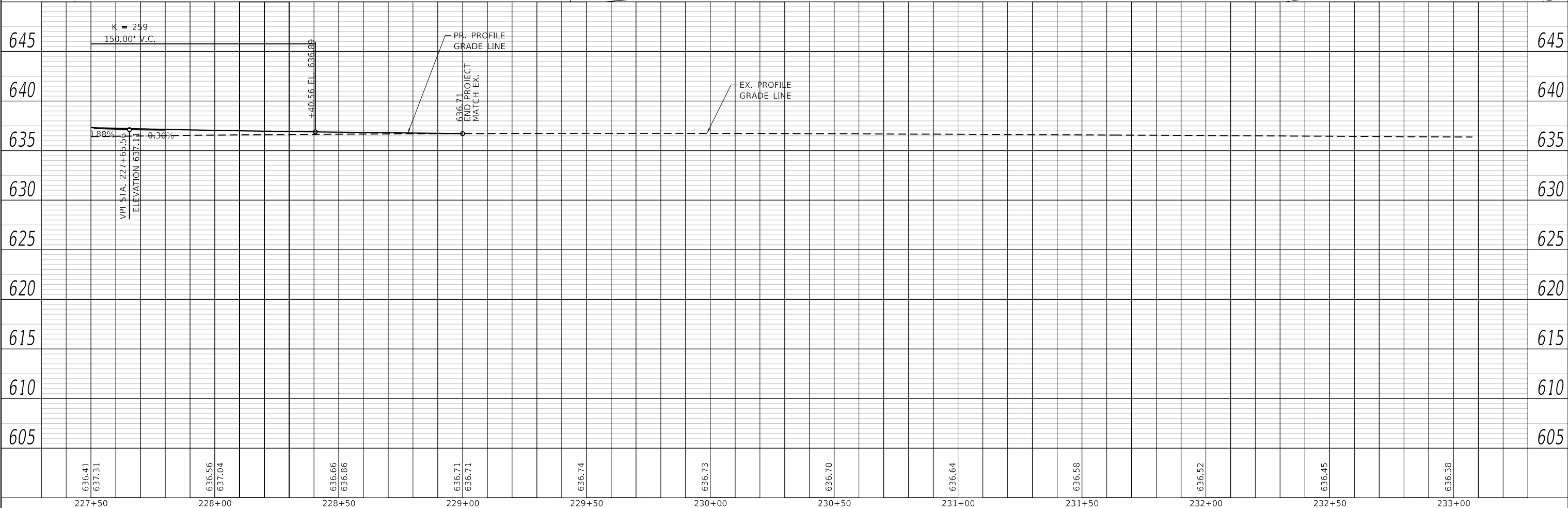
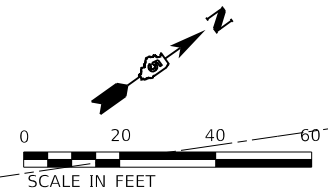
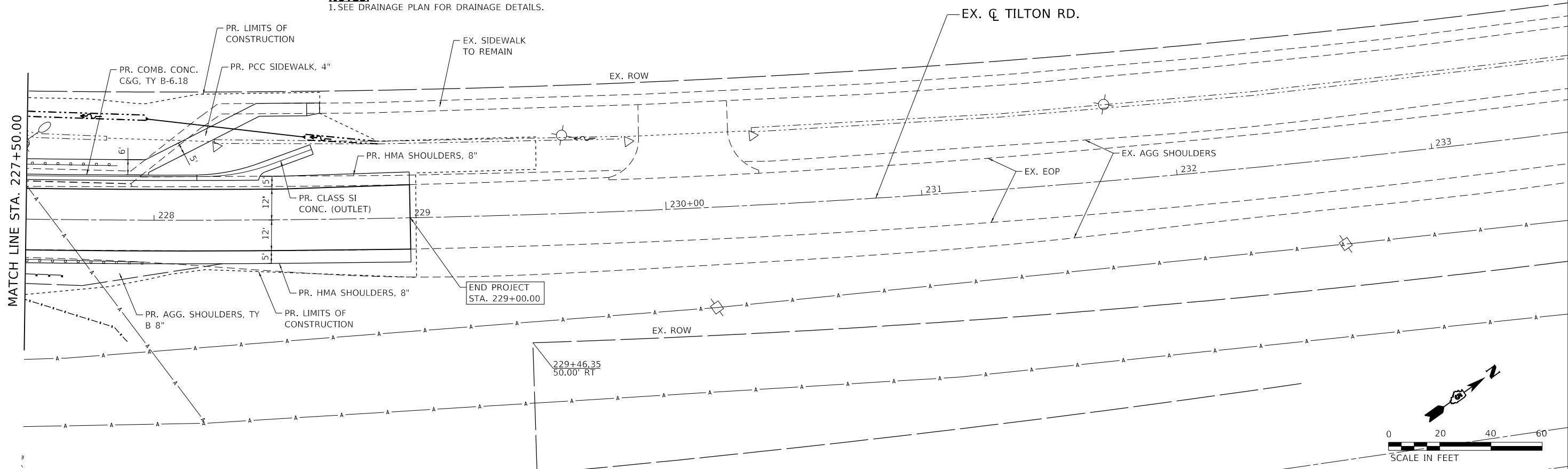
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 TILTON RD.**

SCALE: 1" = 20' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	29
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

NOTES:
1. SEE DRAINAGE PLAN FOR DRAINAGE DETAILS.



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

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

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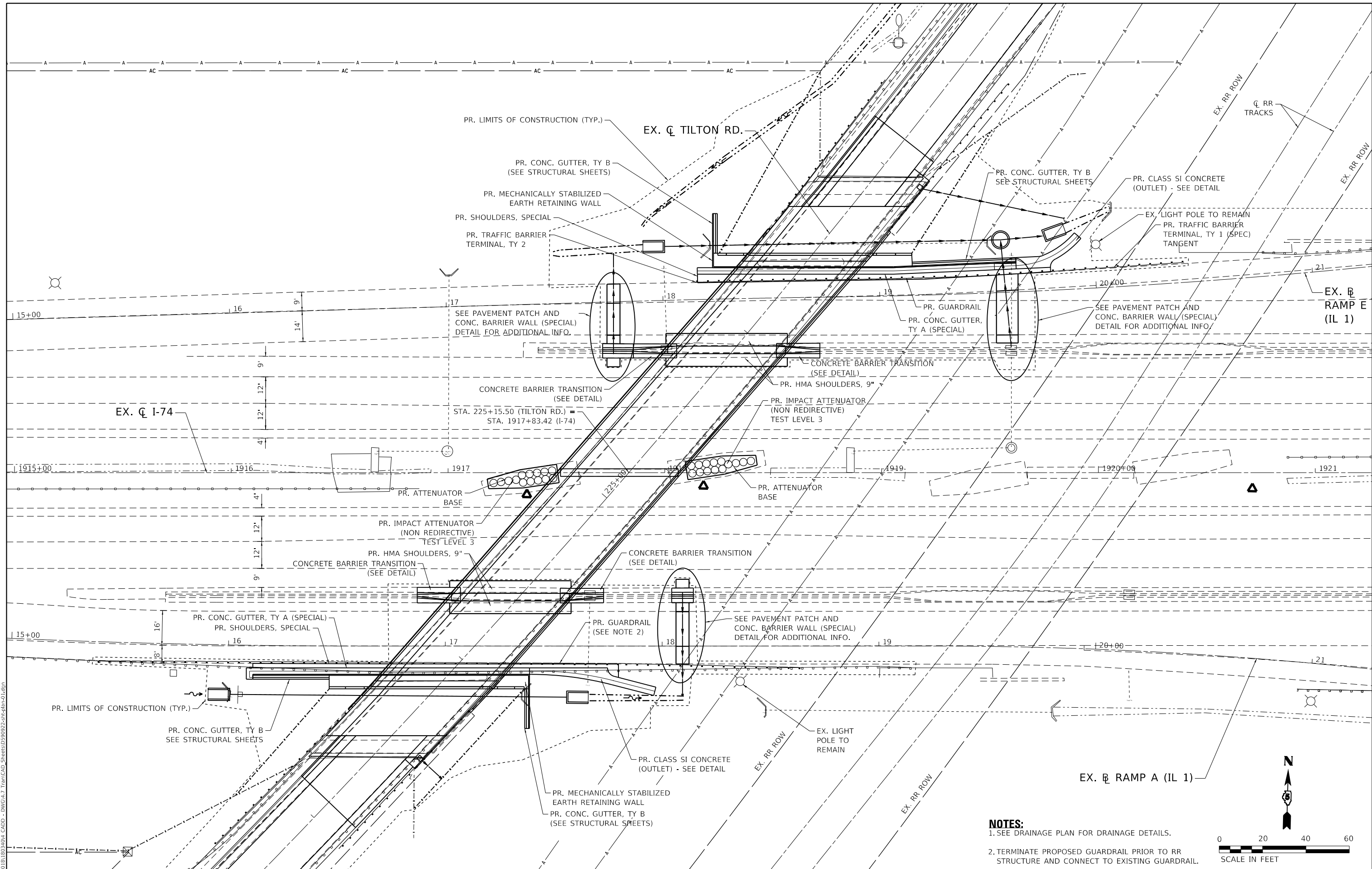
TWM, INC.
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LICENSE NO:
184-001220

USER NAME = jstein	DESIGNED - JWS	REVISED -
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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

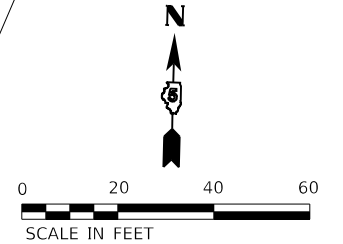
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE TILTON RD.			
SCALE: 1" = 20'	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE. 74	SECTION (92-11HB-4)BR	COUNTY VERMILION	TOTAL SHEETS 133	SHEET NO. 30
CONTRACT NO. 90922				ILLINOIS FED. AID PROJECT



NOTES:
 1. SEE DRAINAGE PLAN FOR DRAINAGE DETAILS.
 2. TERMINATE PROPOSED GUARDRAIL PRIOR TO RR STRUCTURE AND CONNECT TO EXISTING GUARDRAIL.



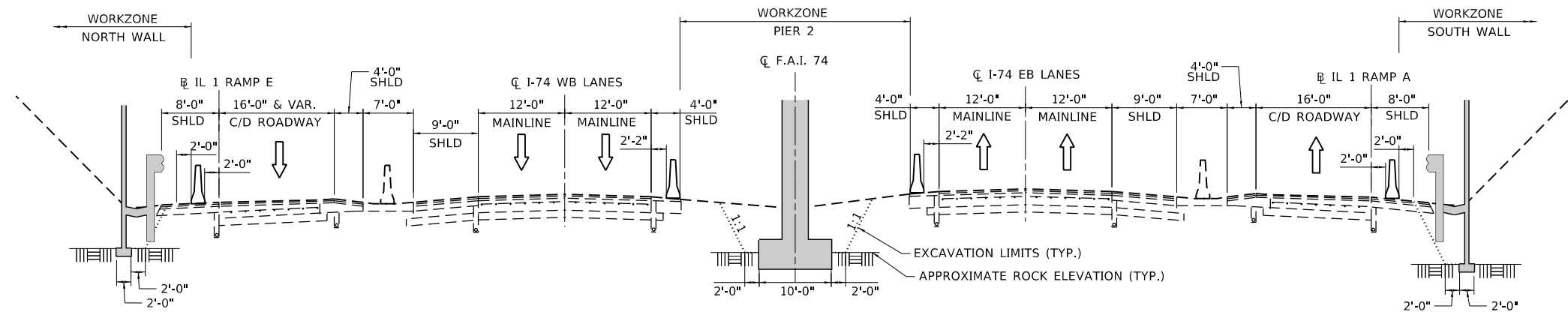
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	PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
		DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN
 I-74**

SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. TO STA.

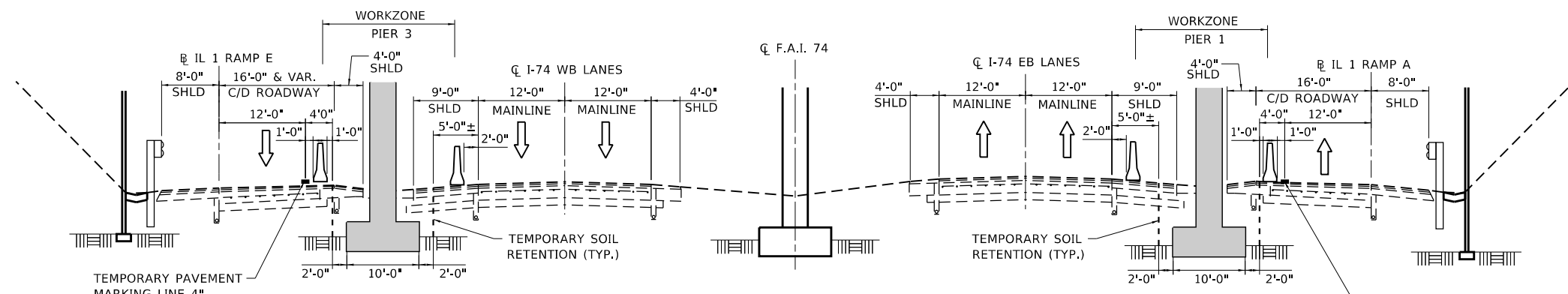
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	31
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



STAGE 1

CONSTRUCTION:
 SOUTH ABUTMENT & RETAINING WALL
 PIER 2 (I-74 MEDIAN)
 NORTH ABUTMENT & RETAINING WALL

CONSTRUCTION THIS STAGE
 TEMPORARY CONCRETE BARRIER



STAGE 2

CONSTRUCTION:
 PIER 1 (I-74 EB)
 PIER 3 (I-74 WB)

CONSTRUCTION THIS STAGE
 TEMPORARY CONCRETE BARRIER

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	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



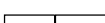


MAINTENANCE OF TRAFFIC TYPICAL SECTIONS	
SCALE: NTS	SHEET 1 OF 6 SHEETS STA. TO STA.

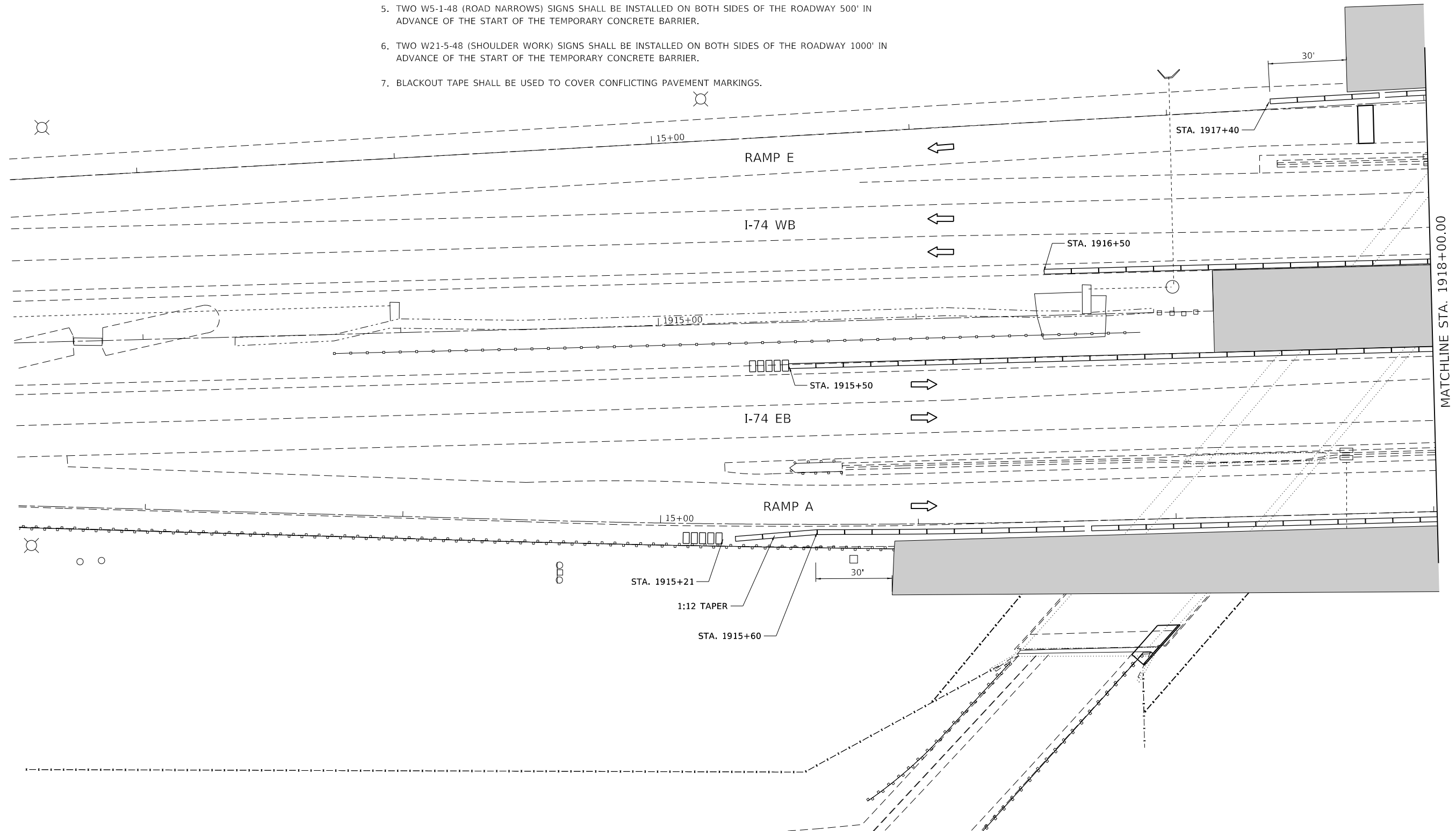
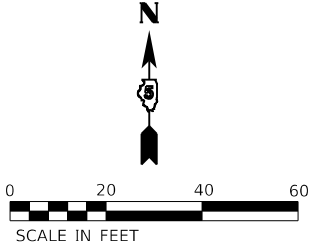
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	32
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

NOTES:

1. FOR THE PLACEMENT, RELOCATION, AND REMOVAL OF TEMPORARY CONCRETE BARRIER, UTILIZE HIGHWAY STANDARDS 701400 AND 701406. THE G STREET ENTRANCE RAMP TO EASTBOUND FAI 74 SHALL ALSO BE CLOSED. SEE SPECIAL PROVISION TRAFFIC CONTROL AND PROTECTION, STANDARD 701451, SPECIAL.
2. TAPERED PORTIONS OF TEMPORARY CONCRETE BARRIER SHALL BE PLACED WITH A TAPER RATE OF 1:12.
3. VERTICAL PANELS WITH MONODIRECTIONAL STEADY BURNING TYPE A LIGHTS SHALL BE MOUNTED ON THE FIRST 100' OF TEMPORARY CONCRETE BARRIER.
4. BARRIER WALL REFLECTORS, TYPE C SHALL BE MOUNTED ON THE TANGENT PORTIONS OF THE TEMPORARY CONCRETE BARRIER.
5. TWO W5-1-48 (ROAD NARROWS) SIGNS SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY 500' IN ADVANCE OF THE START OF THE TEMPORARY CONCRETE BARRIER.
6. TWO W21-5-48 (SHOULDER WORK) SIGNS SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY 1000' IN ADVANCE OF THE START OF THE TEMPORARY CONCRETE BARRIER.
7. BLACKOUT TAPE SHALL BE USED TO COVER CONFLICTING PAVEMENT MARKINGS.

LEGEND

-  TRAFFIC FLOW
-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3



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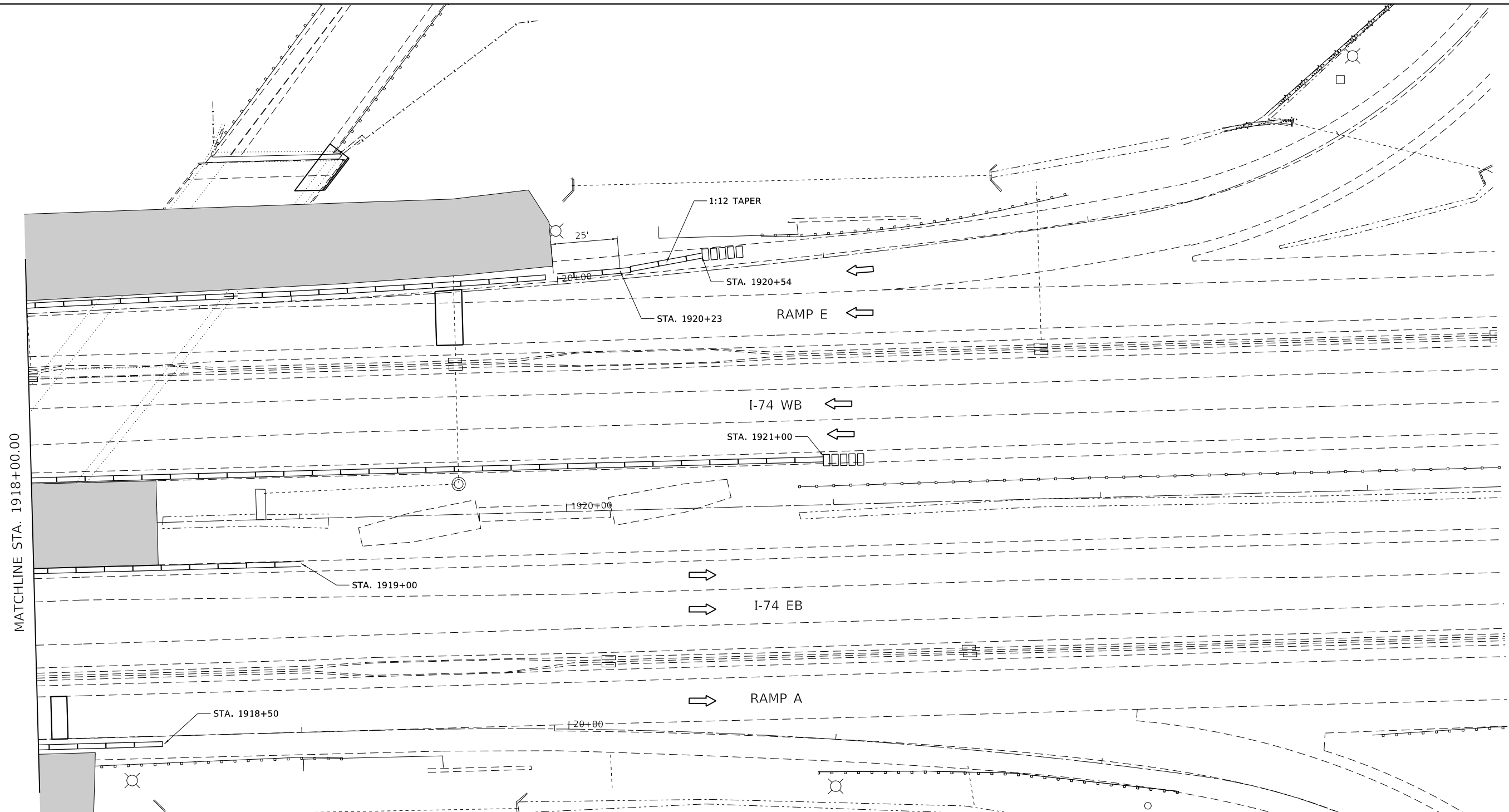
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	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 I-74 STAGE 1**

SCALE: 1" = 20' SHEET 2 OF 6 SHEETS STA. 1912+50.00 TO STA. 1918+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	33
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

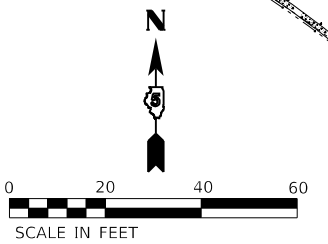


NOTES:

1. FOR THE PLACEMENT, RELOCATION, AND REMOVAL OF TEMPORARY CONCRETE BARRIER, UTILIZE HIGHWAY STANDARDS 701400 AND 701406. THE G STREET ENTRANCE RAMP TO EASTBOUND FAI 74 SHALL ALSO BE CLOSED. SEE SPECIAL PROVISION TRAFFIC CONTROL AND PROTECTION, STANDARD 701451, SPECIAL.
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3. VERTICAL PANELS WITH MONODIRECTIONAL STEADY BURNING TYPE A LIGHTS SHALL BE MOUNTED ON THE FIRST 100' OF TEMPORARY CONCRETE BARRIER.
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6. TWO W21-5-48 (SHOULDER WORK) SIGNS SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY 1000' IN ADVANCE OF THE START OF THE TEMPORARY CONCRETE BARRIER.
7. BLACKOUT TAPE SHALL BE USED TO COVER CONFLICTING PAVEMENT MARKINGS.

LEGEND

- TRAFFIC FLOW
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3



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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISIONS
	DATE - AUGUST 2020	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
I-74 STAGE 1**



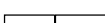


SCALE: 1" = 20' SHEET 3 OF 6 SHEETS STA. 1912+50.00 TO STA. 1918+00.00

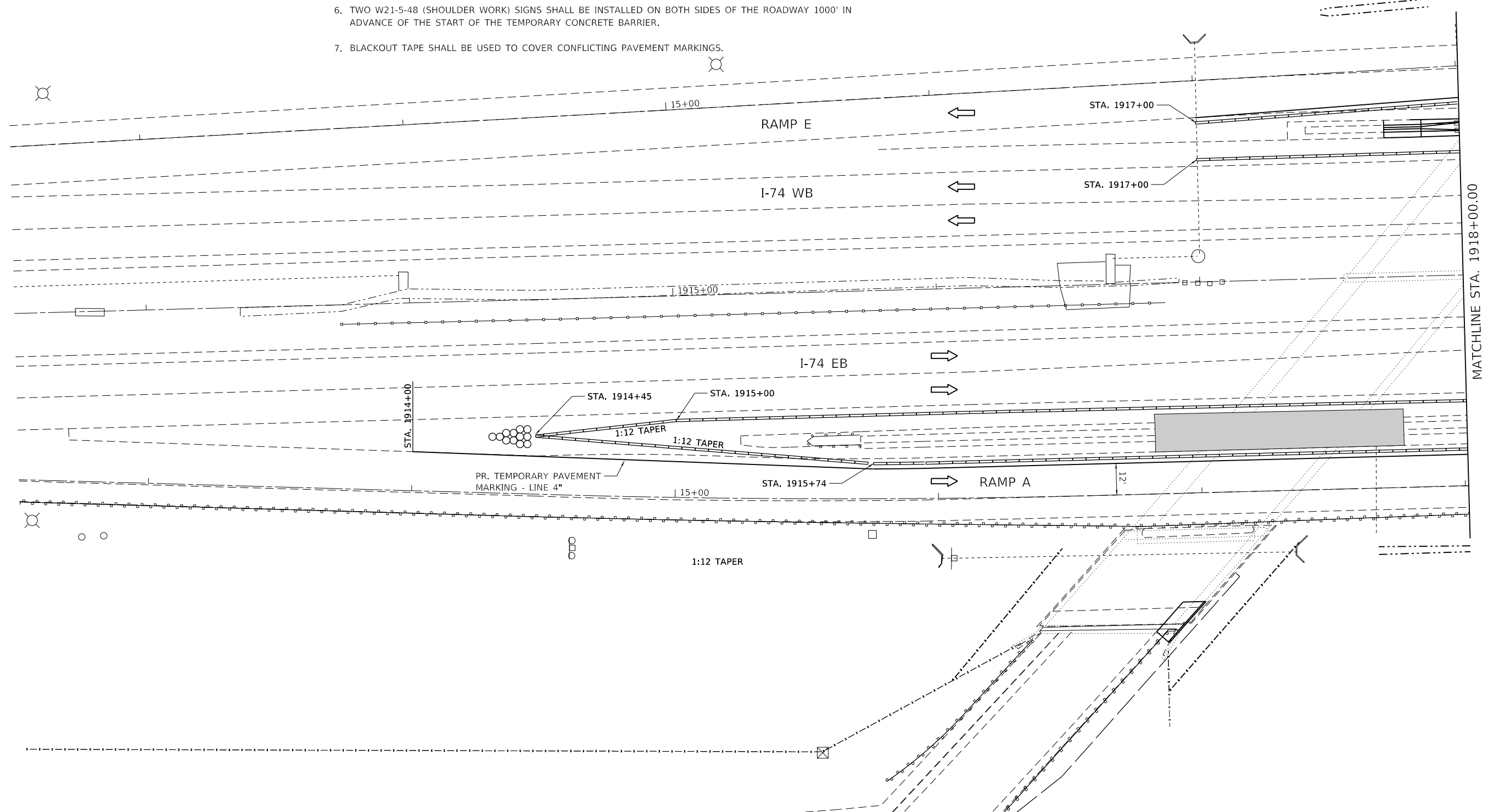
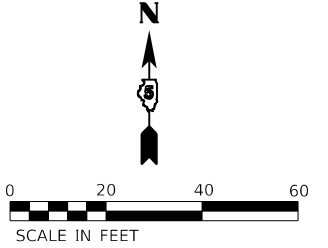
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	34
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				

NOTES:

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LEGEND

-  TRAFFIC FLOW
-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3



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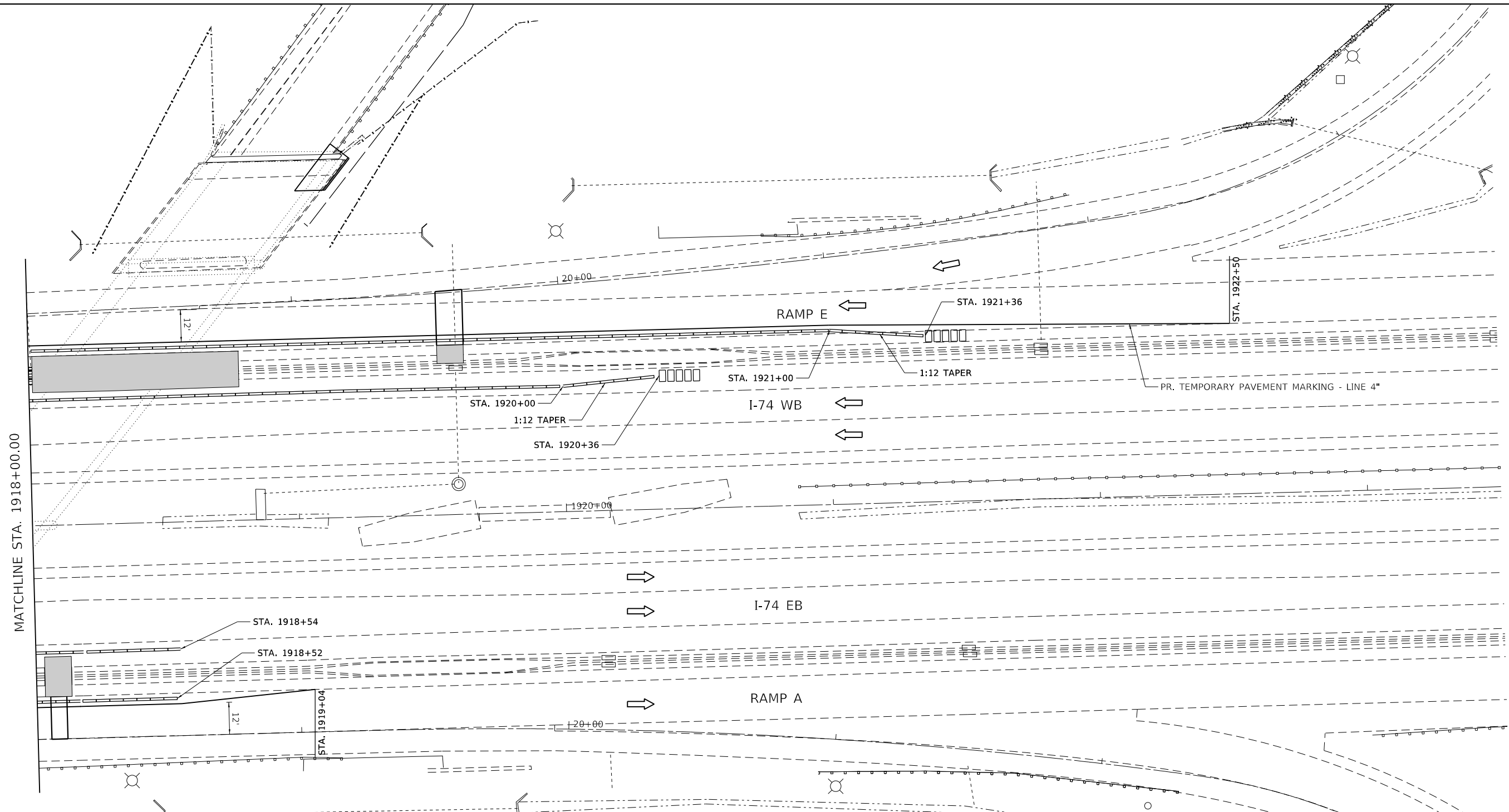
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	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 I-74 STAGE 2**

SCALE: 1" = 20' SHEET 4 OF 6 SHEETS STA. 1912+50.00 TO STA. 1918+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	35
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

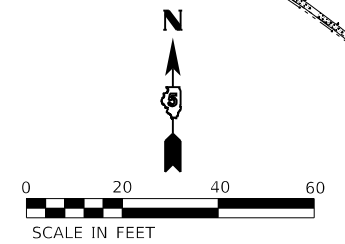


NOTES:

1. FOR THE PLACEMENT, RELOCATION, AND REMOVAL OF TEMPORARY CONCRETE BARRIER, UTILIZE HIGHWAY STANDARDS 701400 AND 701406. THE G STREET ENTRANCE RAMP TO EASTBOUND FAI 74 SHALL ALSO BE CLOSED. SEE SPECIAL PROVISION TRAFFIC CONTROL AND PROTECTION, STANDARD 701451, SPECIAL.
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7. BLACKOUT TAPE SHALL BE USED TO COVER CONFLICTING PAVEMENT MARKINGS.

LEGEND

- TRAFFIC FLOW
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3



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 184-001220

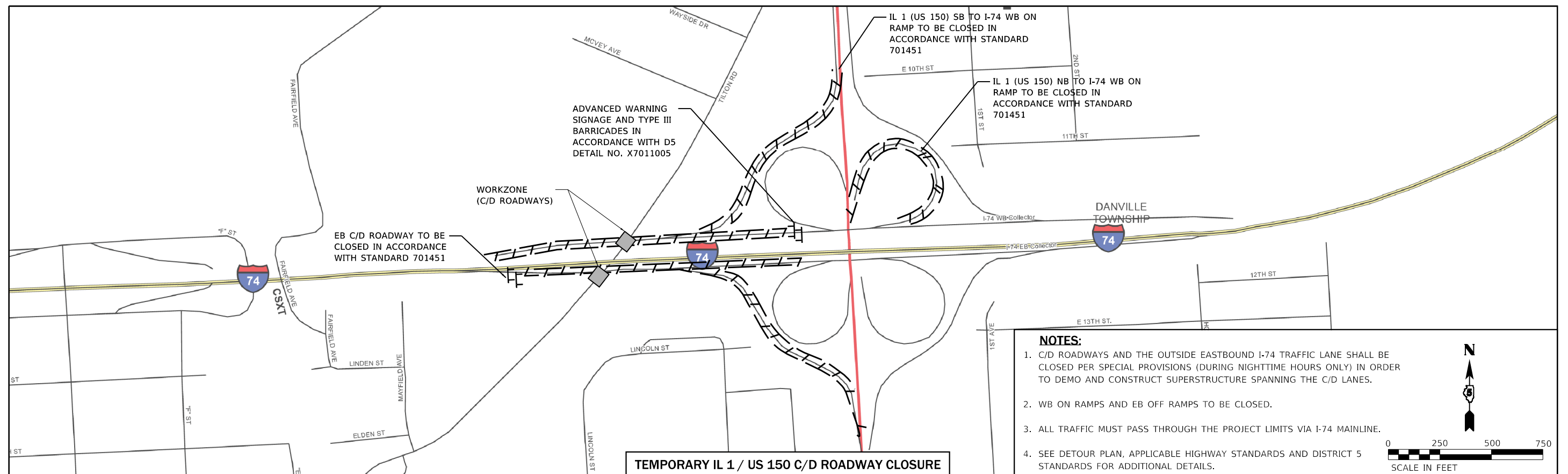
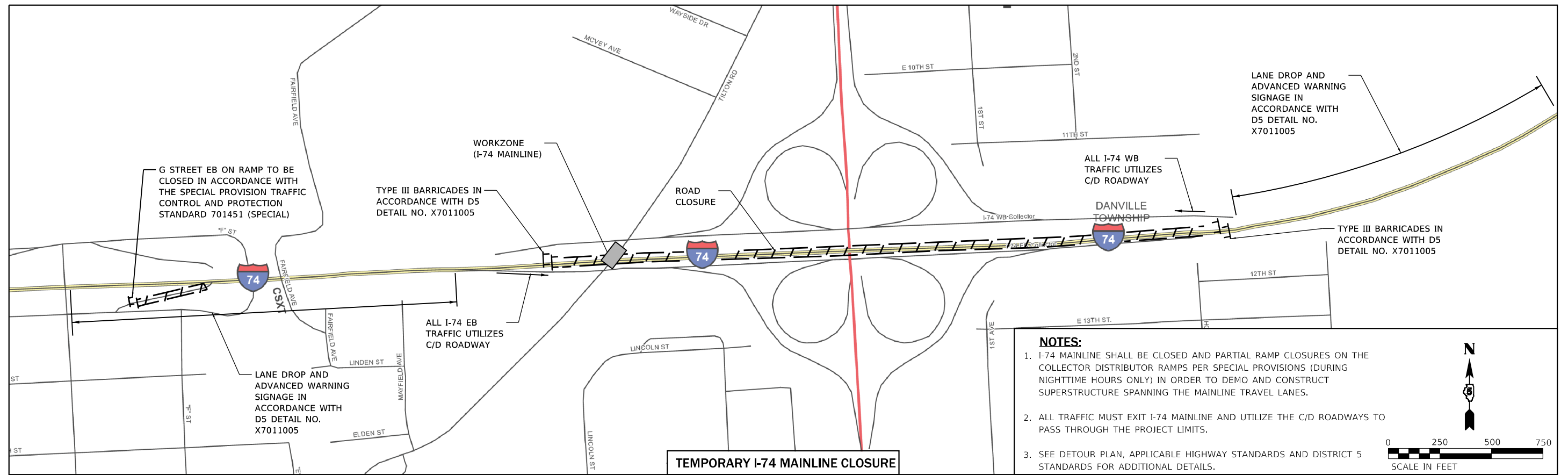
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	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 I-74 STAGE 2**

SCALE: 1" = 20' SHEET 5 OF 6 SHEETS STA. 1912+50.00 TO STA. 1918+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	36
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



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 IL DESIGN FIRM
 LICENSE NO: 184-001220

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DRAWN	- JWS
CHECKED	- SJK
DATE	- AUGUST 2020

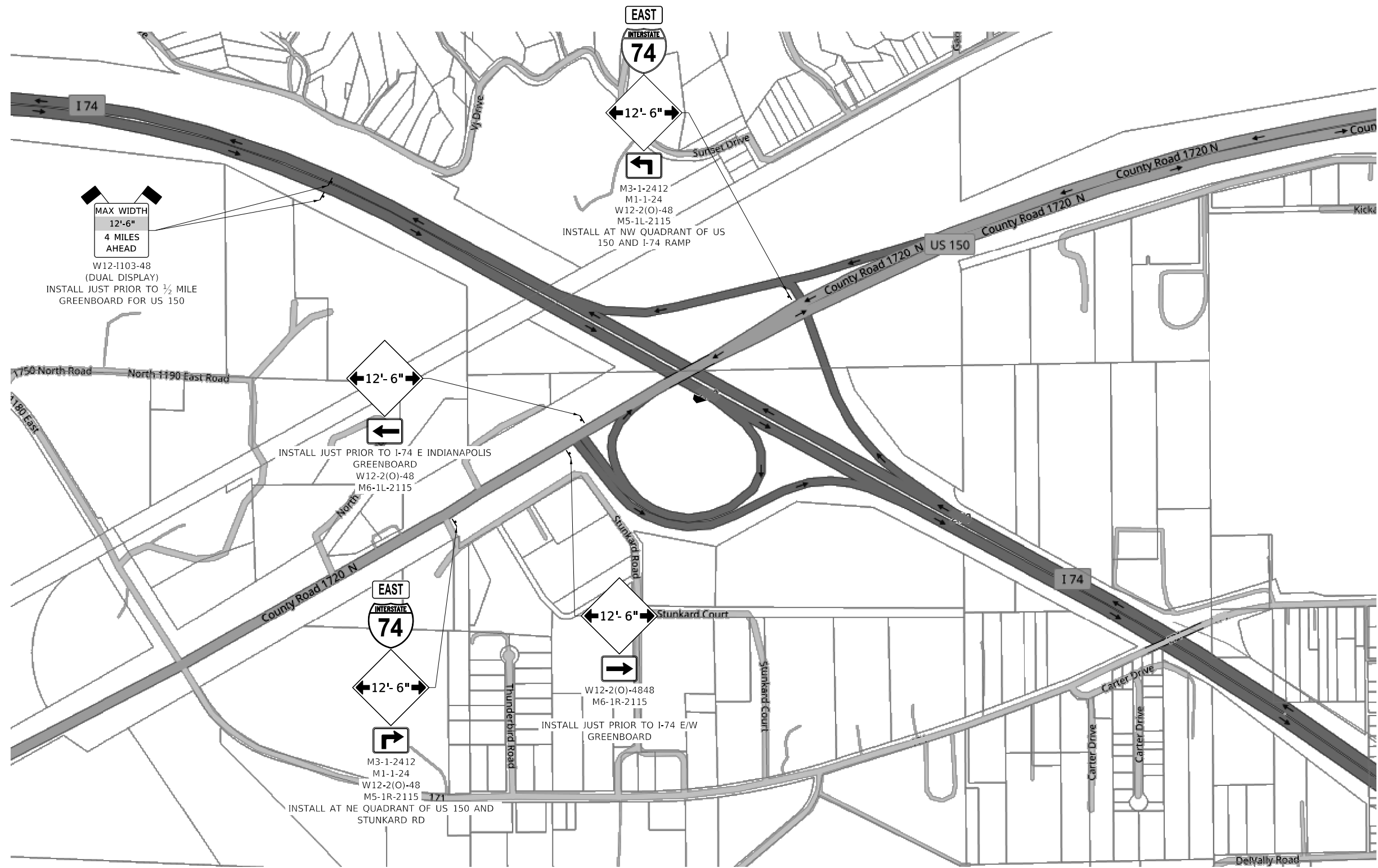
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 I-74 TEMPORARY CLOSURES**

SCALE: 1" = 250' SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	37
				CONTRACT NO. 90922
ILLINOIS FED. AID PROJECT				



MAX WIDTH
12'-6"
4 MILES
AHEAD
 W12-1103-48
 (DUAL DISPLAY)
 INSTALL JUST PRIOR TO 1/2 MILE
 GREENBOARD FOR US 150

EAST
INTERSTATE
74
12'-6"
 M3-1-2412
 M1-1-24
 W12-2(O)-48
 M5-1L-2115
 INSTALL AT NW QUADRANT OF US
 150 AND I-74 RAMP

12'-6"
12'-6"
 INSTALL JUST PRIOR TO I-74 E INDIANAPOLIS
 GREENBOARD
 W12-2(O)-48
 M6-1L-2115

EAST
INTERSTATE
74
12'-6"
12'-6"
 W12-2(O)-4848
 M6-1R-2115
 INSTALL JUST PRIOR TO I-74 E/W
 GREENBOARD
 M3-1-2412
 M1-1-24
 W12-2(O)-48
 M5-1R-2115
 INSTALL AT NE QUADRANT OF US 150 AND
 STUNKARD RD

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PLOT DATE = 7/30/2020	DATE - 07/31/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION DETAIL

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	38
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 7/30/2020	CHECKED - SDM	REVISED -
	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION DETAIL

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	39
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



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PLOT SCALE = 100,000' / in.	DRAWN - JB	REVISED -
PLOT DATE = 7/30/2020	CHECKED - SDM	REVISED -
	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION DETAIL

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

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	40
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



NOTES

PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.

ALL SIGN MESSAGES AND SIZES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

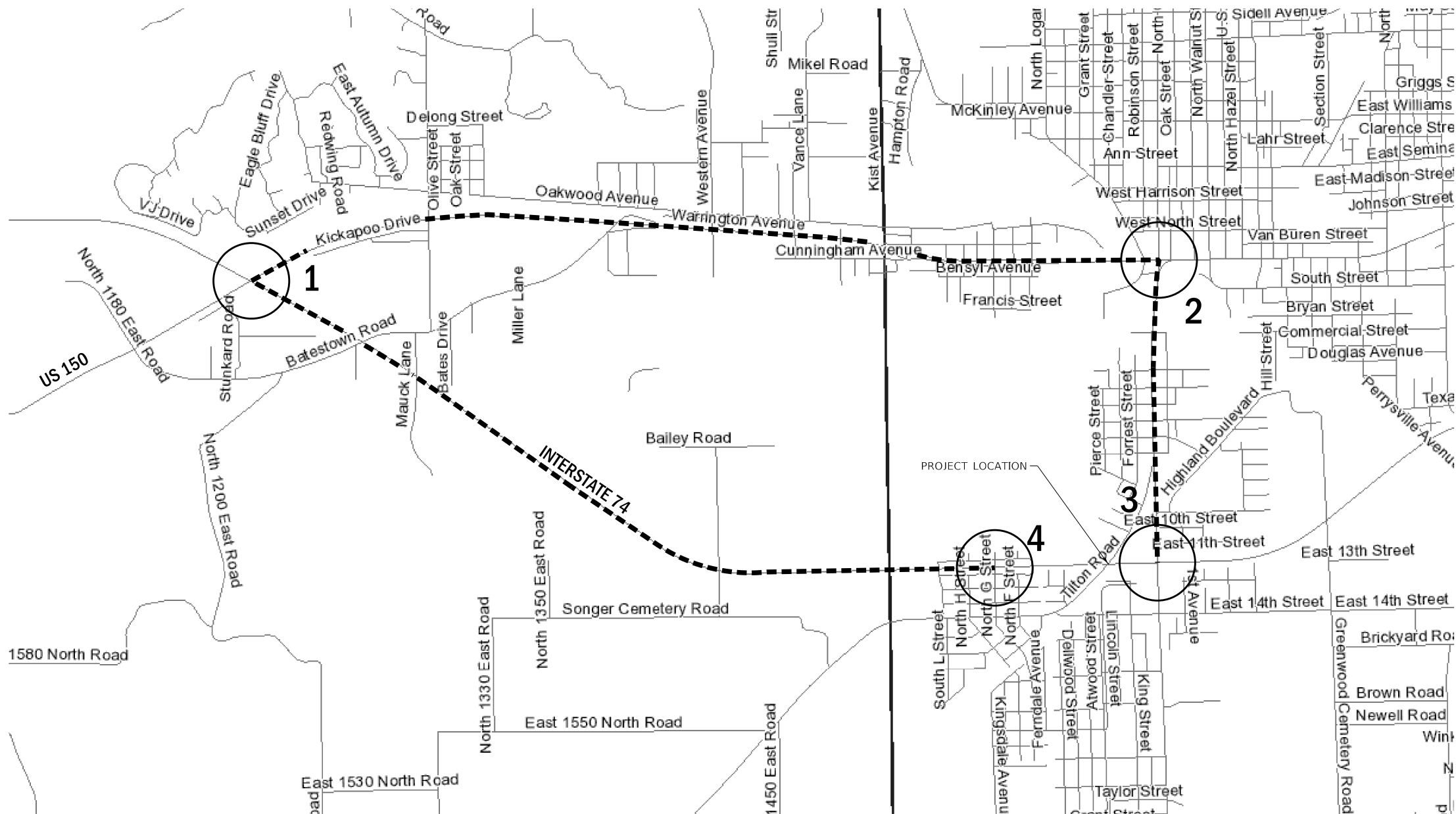
THE DISTRICT SHALL FURNISH THE SIGN PANELS. THE CONTRACTOR SHALL FURNISH AND ERECT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER. ALL THE SIGNS SHALL BE POST MOUNTED.

ALL SIGNING SHALL BE ERECTED BY THE CONTRACTOR, AT THE LOCATIONS SHOWN WITHIN THE CONTRACT PLANS, MAINTAINED, AND REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE PLANS.

ALL WORK ASSOCIATED WITH THE FURNISHING, ERECTING, MAINTAINING, AND REMOVAL OF ALTERNATE ROUTE SIGNING WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR VARIOUS TRAFFIC CONTROL AND PROTECTION PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ANY SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

SIGNS, WHEN REMOVED, SHALL BE RETURNED TO THE DEPARTMENT. DELIVERY AND PICKUP OF SIGNS SHALL BE AT THE IDOT SIGN SHOP LOCATED IN CHAMPAIGN.



LEGEND

- SIGN ON PERMANENT SUPPORTS
- ALTERNATE ROUTE

M1-1-2424 (A)	M3-2-2412 (B)	M3-4-2412 (C)	M4-1a(O)-2412 (D)	M6-1(O)-2115 (E)
M6-1(O)-2115 (F)	M5-1(O)-2115 (G)	M6-3(O)-2115 (H)	M6-2(O)-2115 (I)	M6-2(O)-2115 (J)

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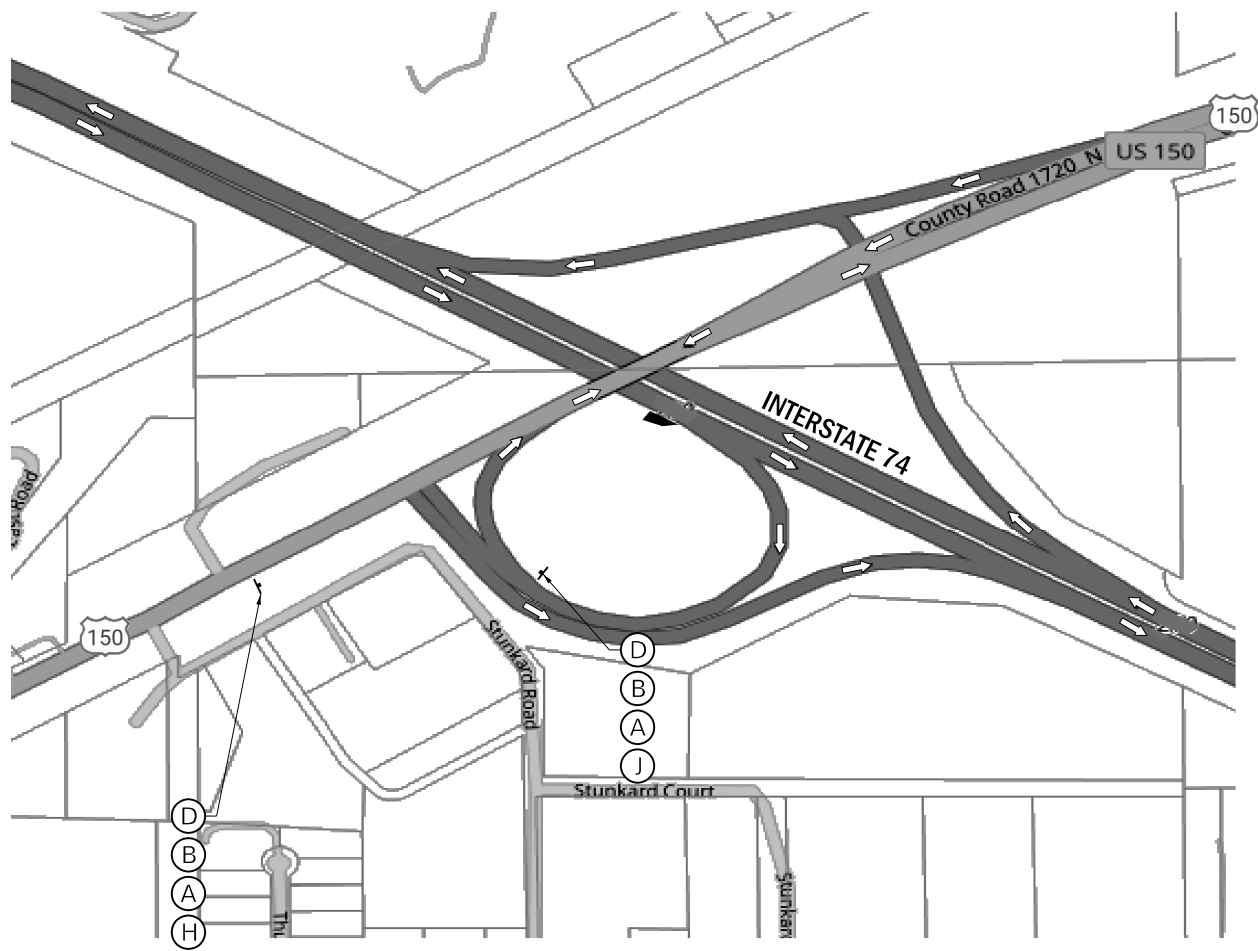
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PLOT DATE = 7/30/2020	CHECKED - SDM	REVISED -
	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-74 MAINTENANCE OF TRAFFIC
ALTERNATE ROUTE SIGNING**

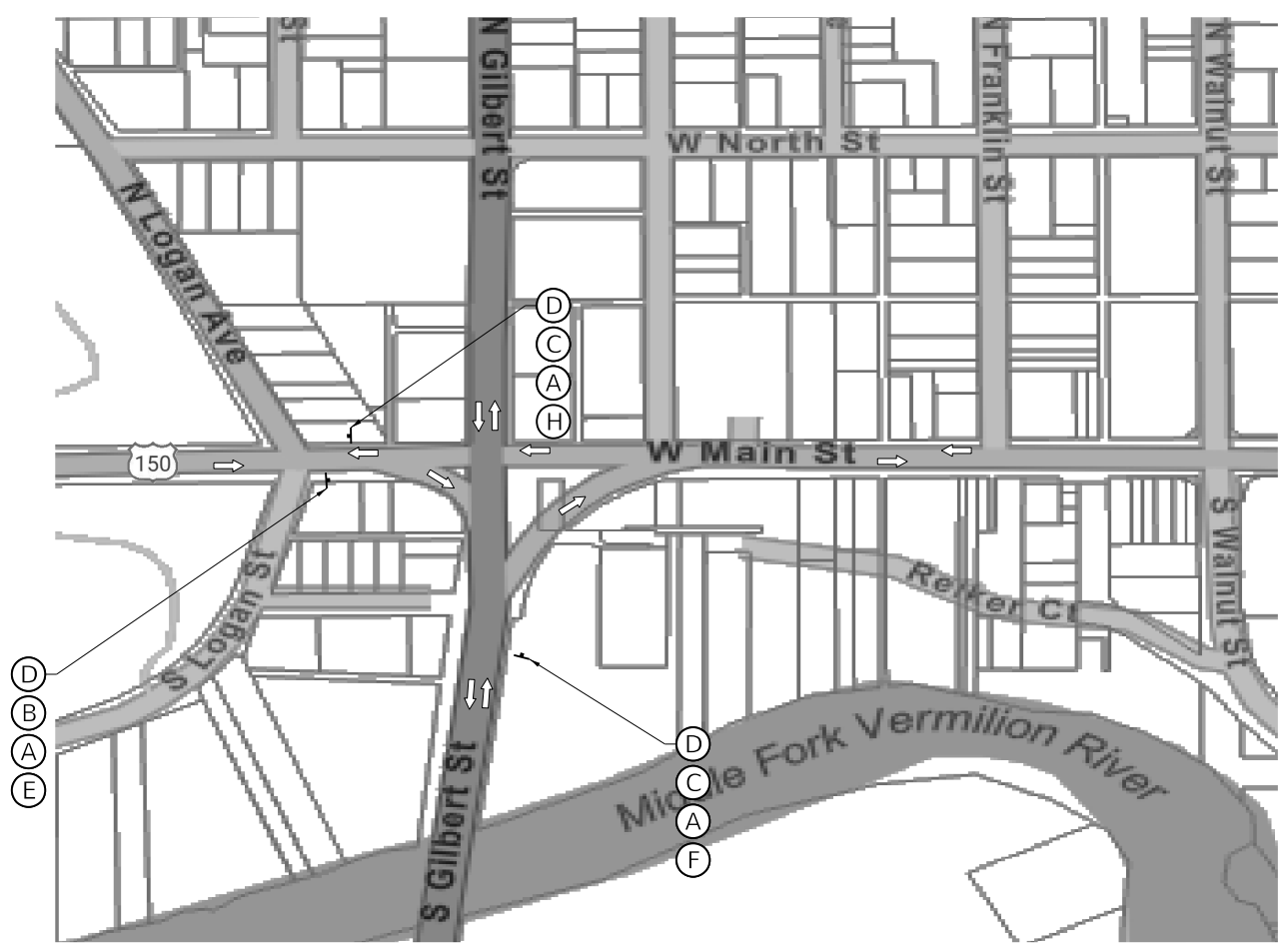
SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	41
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



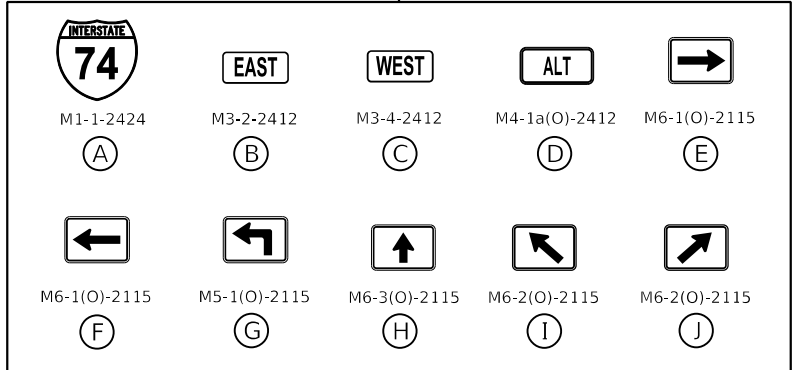
DETAIL 1

I-74 AND US 150 (MAIN ST) INTERCHANGE



DETAIL 2

US 150 (MAIN ST) AND GILBERT ST INTERSECTION



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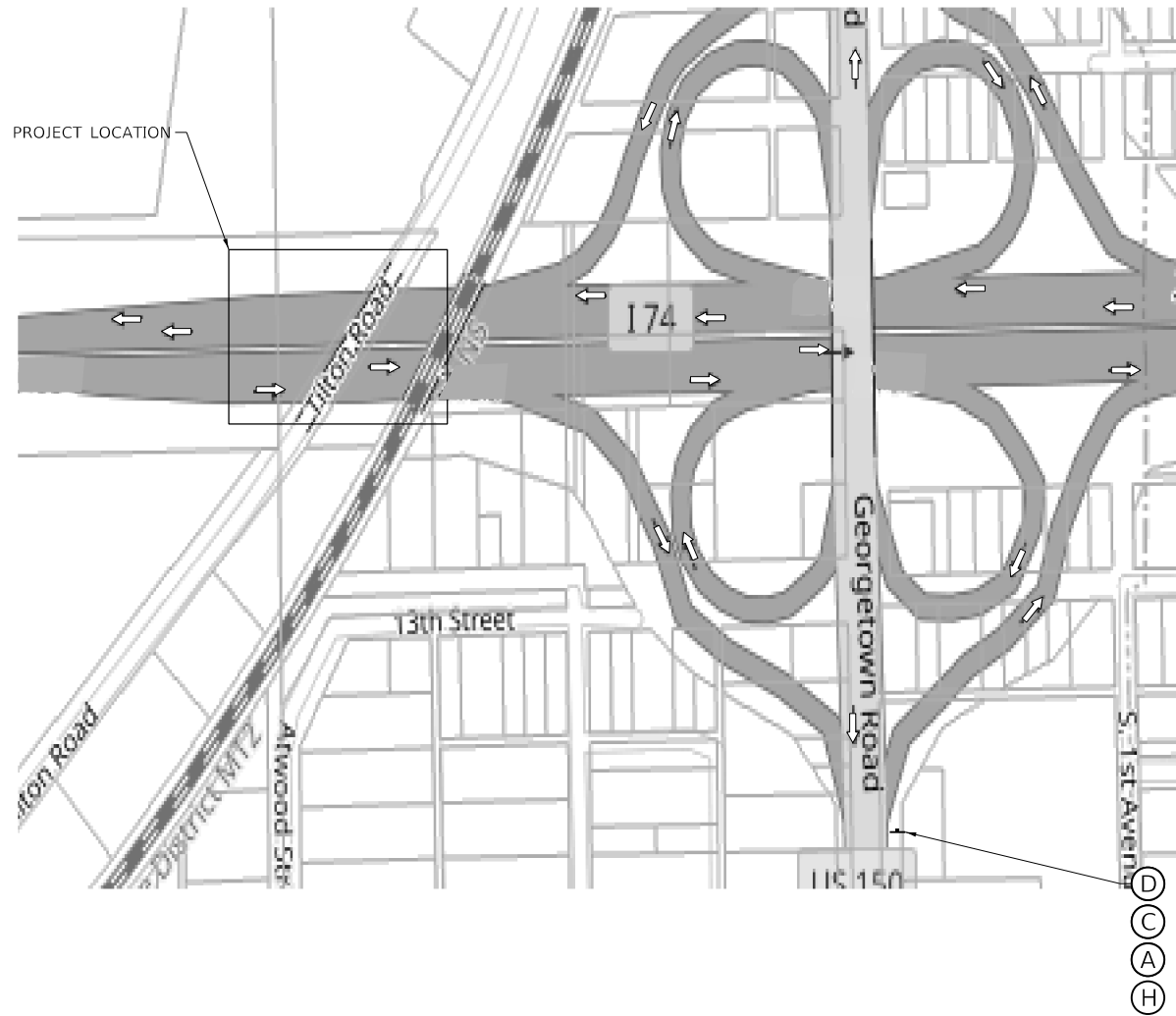
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DRAWN - JB	REVISIONS -	
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PLOT DATE = 7/30/2020	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-74 MAINTENANCE OF TRAFFIC
ALTERNATE ROUTE SIGNING**

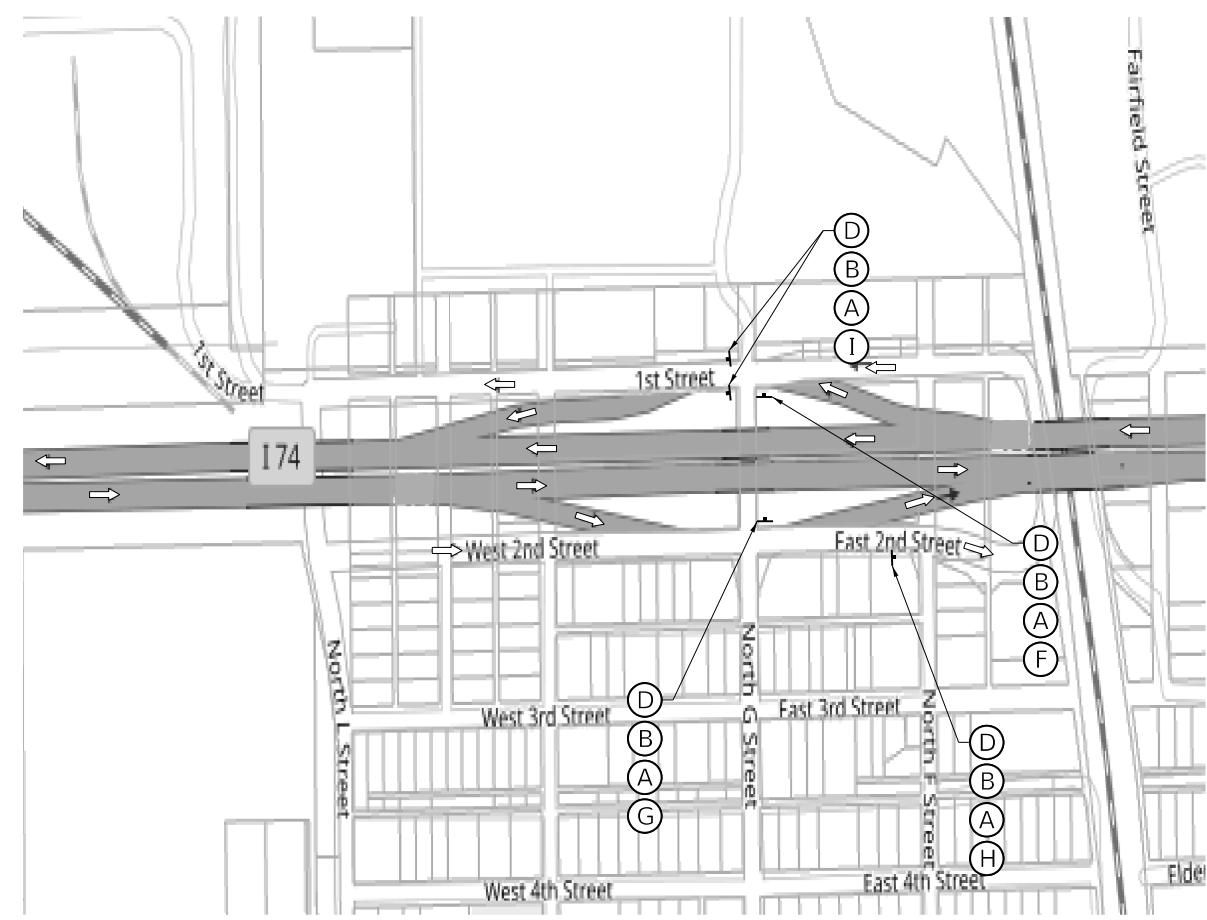
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	42
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



DETAIL 3

I-74 AND GEORGETOWN RD/GILBERT ST INTERCHANGE



DETAIL 4

I-74 AND NORTH G ST INTERCHANGE

M1-1-2424 (A)	M3-2-2412 (B)	M3-4-2412 (C)	M4-1a(O)-2412 (D)	M6-1(O)-2115 (E)
M6-1(O)-2115 (F)	M5-1(O)-2115 (G)	M6-3(O)-2115 (H)	M6-2(O)-2115 (I)	M6-2(O)-2115 (J)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

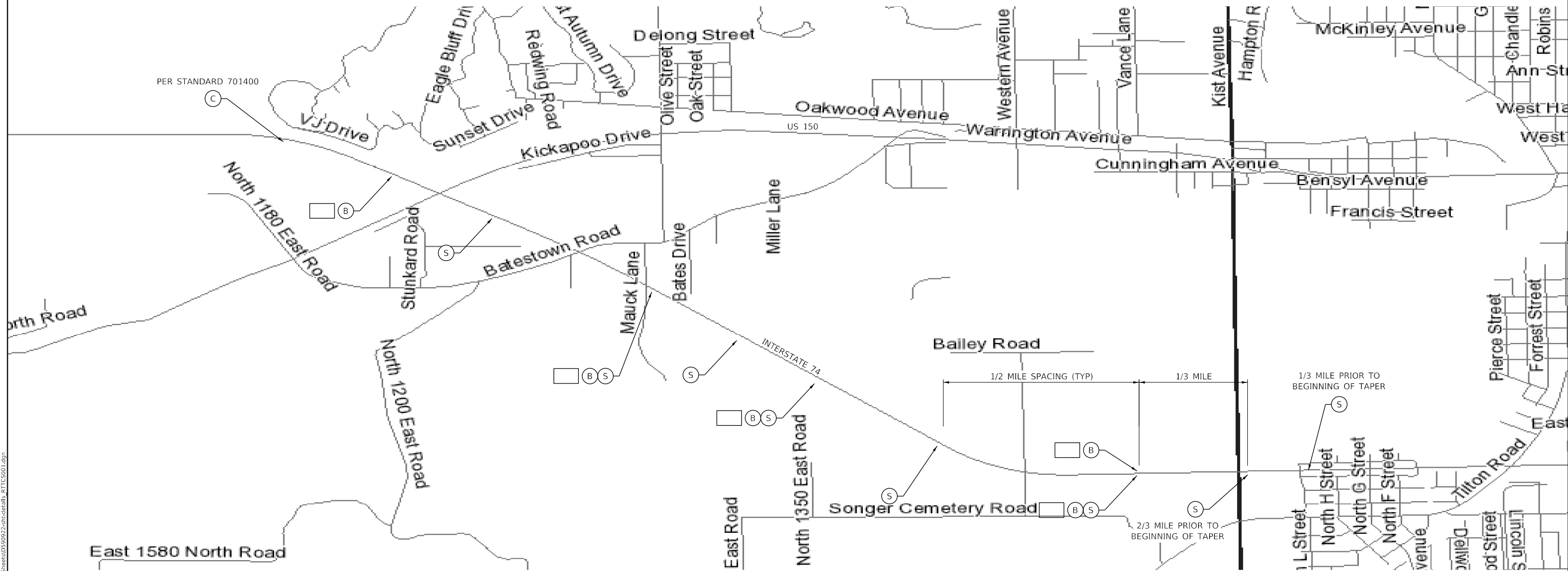
**I-74 MAINTENANCE OF TRAFFIC
ALTERNATE ROUTE SIGNING**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	43
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				




REAL-TIME TRAFFIC CONTROL SYSTEM

NOT TO SCALE



PER STANDARD 701400

LEGEND

- 
B RTTCS STATIC WARNING SIGN
 PAID FOR AS REAL-TIME TRAFFIC CONTROL WARNING SIGN
 48" X 96" WARNING SIGN THAT SAYS "STOPPED OR SLOW TRAFFIC WHEN FLASHING"
- 
C SINGLE PORTABLE CHANGEABLE MESSAGE SIGN PLACED 1/2 MILE IN ADVANCE
 OF 4TH RTTCS BOARD. IT SHALL READ
 "RIGHT/LEFT LANE CLOSED/5 MILES AHEAD"
 THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400.
- 
S SPEED SENSOR
 PAID FOR AS REAL-TIME TRAFFIC CONTROL SENSOR UNIT

NOTE

THE NUMBER OF RTTCS STATIC WARNING SIGNS AND/OR SPEED SENSORS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF RTTCS STATIC WARNING SIGNS AND/OR SPEED SENSORS IS INCLUDED IN THE RTTCS PAY ITEMS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

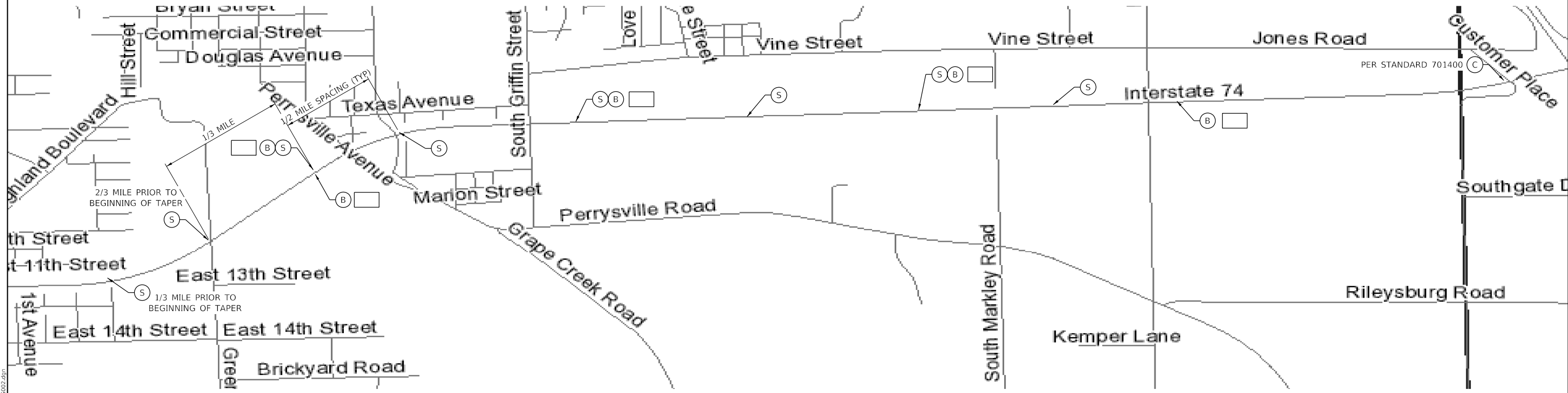
REAL-TIME TRAFFIC CONTROL SYSTEM

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	44
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

REAL-TIME TRAFFIC CONTROL SYSTEM

NOT TO SCALE



LEGEND

- (B) RTTCS STATIC WARNING SIGN
PAID FOR AS REAL-TIME TRAFFIC CONTROL WARNING SIGN
48" X 96" WARNING SIGN THAT SAYS "STOPPED OR SLOW TRAFFIC WHEN FLASHING"
- (C) SINGLE PORTABLE CHANGEABLE MESSAGE SIGN PLACED 1/2 MILE IN ADVANCE OF 4TH RTTCS BOARD. IT SHALL READ "RIGHT/LEFT LANE CLOSED/5 MILES AHEAD"
THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400.
- (S) SPEED SENSOR
PAID FOR AS REAL-TIME TRAFFIC CONTROL SENSOR UNIT

NOTE

THE NUMBER OF RTTCS STATIC WARNING SIGNS AND/OR SPEED SENSORS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF RTTCS STATIC WARNING SIGNS AND/OR SPEED SENSORS IS INCLUDED IN THE RTTCS PAY ITEMS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

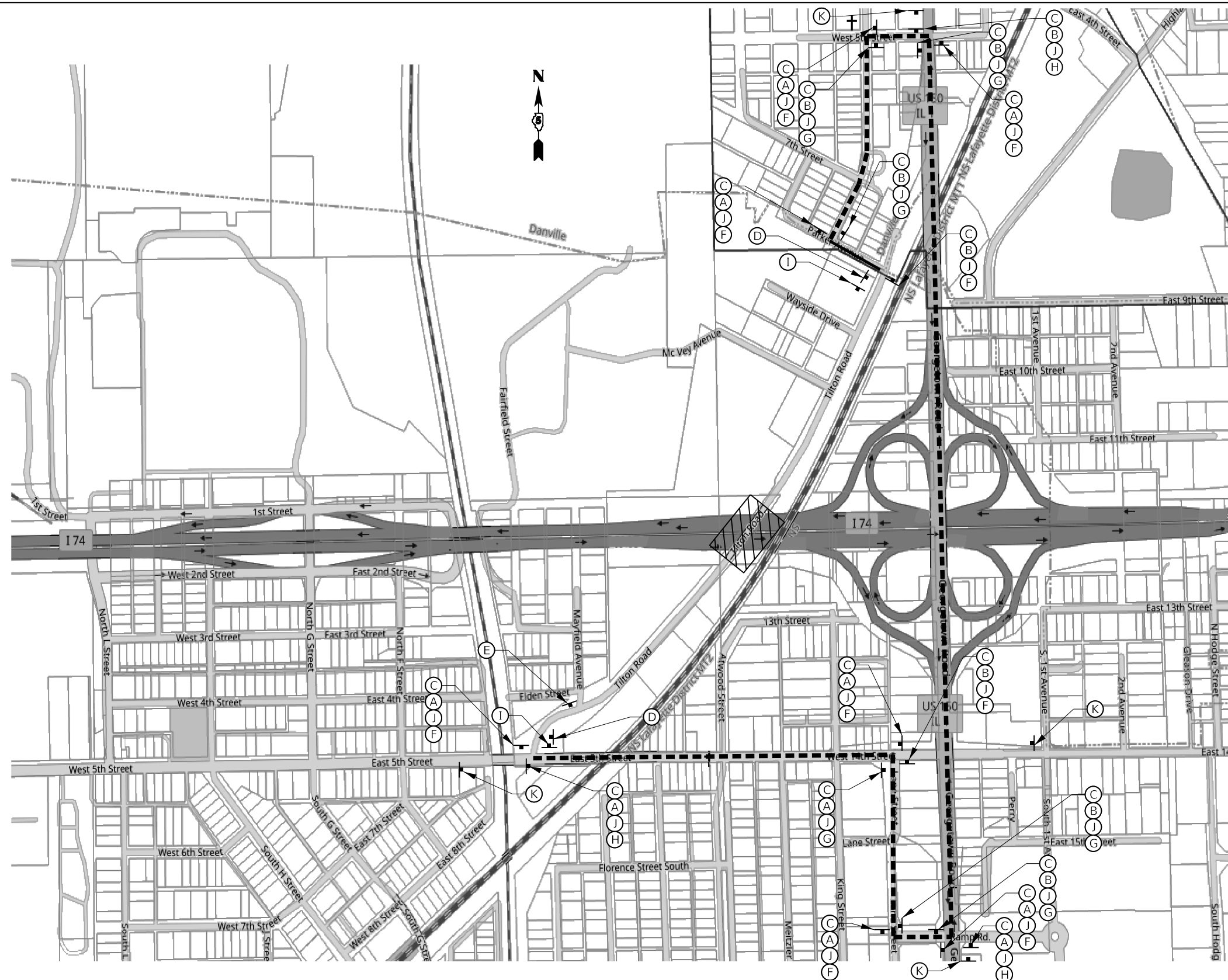
REAL-TIME TRAFFIC CONTROL SYSTEM

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.




F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	45
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				












NOTE

THE CLOSURE OF TILTON ROAD SHALL BE ACCORDING TO THE DISTRICT 5 DETAIL "TRAFFIC CONTROL AND PROTECTION DEVICES (ROAD AND SIDEROAD / STREET CLOSURES)"



LEGEND

-  DETOUR ROUTE
-  CONSTRUCTION ZONE
-  SIGN

 NORTH	 SOUTH	 DETOUR	 END DETOUR					 BRIDGE OUT 1/4 MILE AHEAD LOCAL TRAFFIC ONLY	 TILTON RD	 DETOUR AHEAD
M3-1-2412	M3-3-2412	M4-8-(O)-2412	M4-8a-(O)-2418	M4-10R-(O)-4818	M6-1L-2115	M6-1R-2115	M6-3-2115	R11-3b-6030	W16-8P-(O)-VARIES	W20-2-(O)-3636
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)

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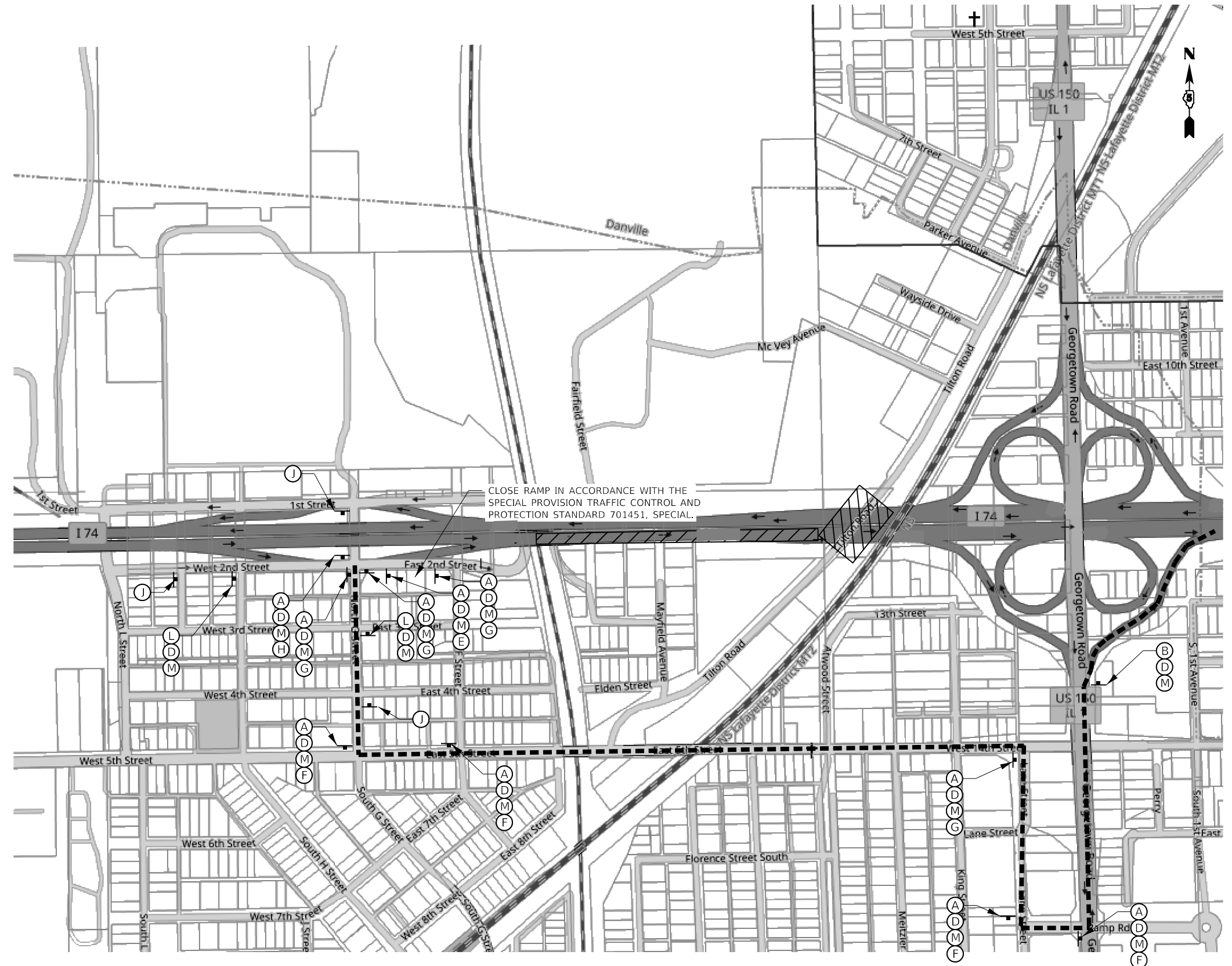
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE
TILTON ROAD**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	46
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



LEGEND

- DETOUR ROUTE
- CONSTRUCTION ZONE
- SIGN

- | | | | | | | | | | | | |
|---------------|----------------|------------|-----------|------------|------------|------------|-----------|------------|----------------|----------------|-----------|
| M4-8-(O)-2412 | M4-8a-(O)-2418 | R5-11-3024 | M3-2-2412 | M5-1R-2115 | M6-1L-2115 | M6-1R-2115 | M6-3-2115 | R11-2-4830 | W20-2-(O)-3636 | W20-3-(O)-3636 | M1-1-2424 |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | (H) | (I) | (J) | (L) | (M) |

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 DATE: 07/31/2020
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**







DETOUR ROUTE	
EASTBOUND I-74 ON RAMP AT G STREET	
SCALE: NTS	SHEET 1 OF 1 SHEETS
STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	47
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



LEGEND

-  DETOUR ROUTE
-  CONSTRUCTION ZONE
-  SIGN

- 
 M4-8-(O)-2412
 (A)
- 
 M4-8a-(O)-2418
 (B)
- 
 M6-2R-2115
 (C)
- 
 E5-2a-(O)-4836
 (D)
- 
 W20-2-(O)-3636
 (E)
- 
 M1-1100-2424
 (F)

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	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE
EASTBOUND I-74 TO NORTHBOUND & SOUTHBOUND IL-1**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	48
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				



LEGEND

- DETOUR ROUTE
- CONSTRUCTION ZONE
- SIGN

- M3-4-2412
 (A)
- M4-8-(O)-2412
 (B)
- M4-8a-(O)-2418
 (C)
- M6-1L-2115
 (D)
- M6-1R-2115
 (E)
- M6-3-2115
 (F)
- E5-2a-(O)-4836
 (G)
- W20-2-(O)-3636
 (H)
- M1-1-2424
 (I)

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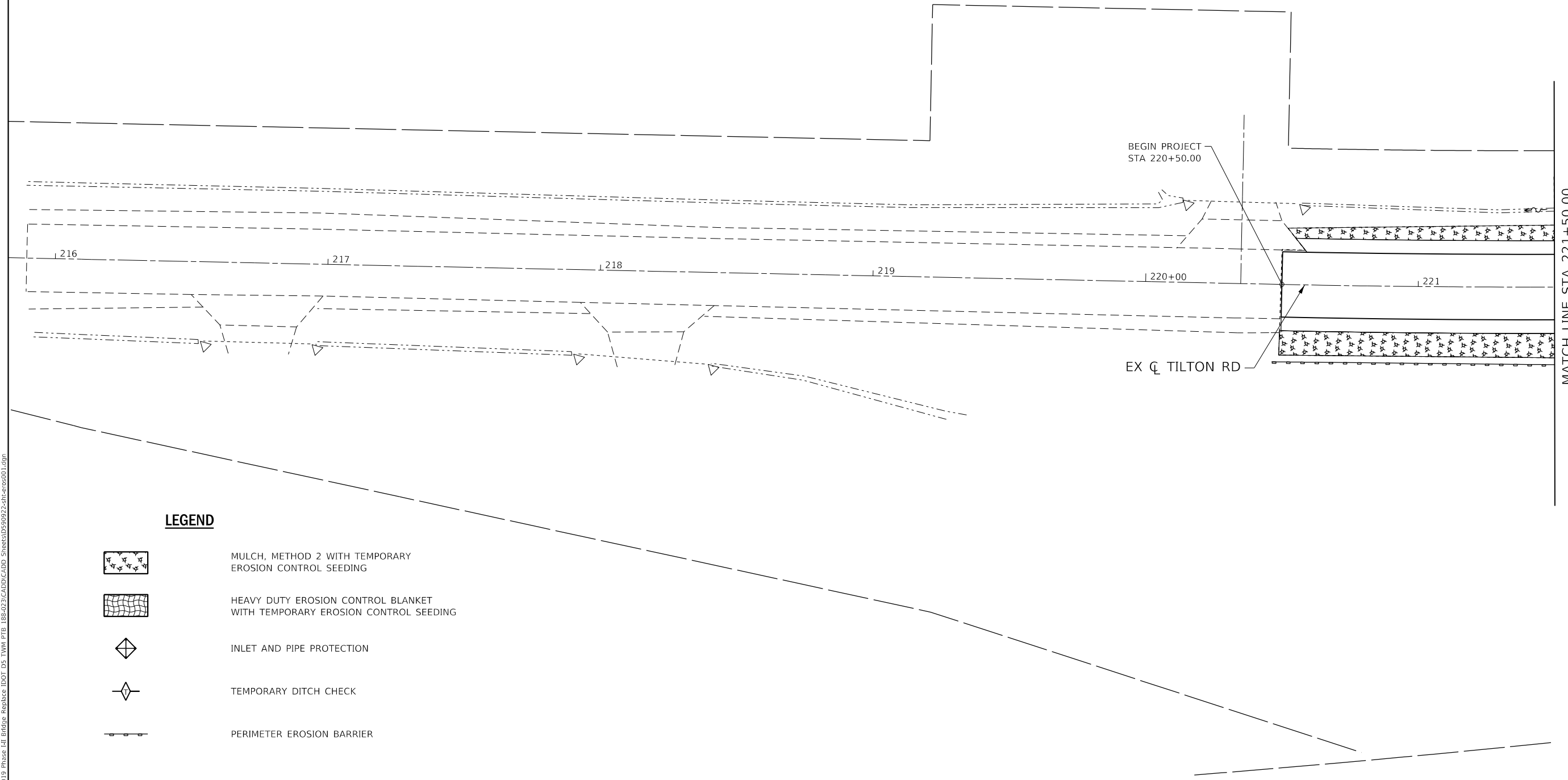
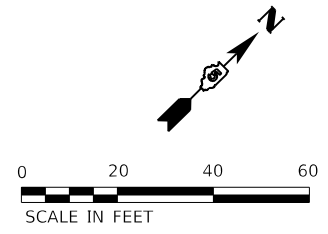
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






DETOUR ROUTE
NORTHBOUND & SOUTHBOUND I-74 TO WESTBOUND I-74

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	49
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



LEGEND

-  MULCH, METHOD 2 WITH TEMPORARY EROSION CONTROL SEEDING
-  HEAVY DUTY EROSION CONTROL BLANKET WITH TEMPORARY EROSION CONTROL SEEDING
-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

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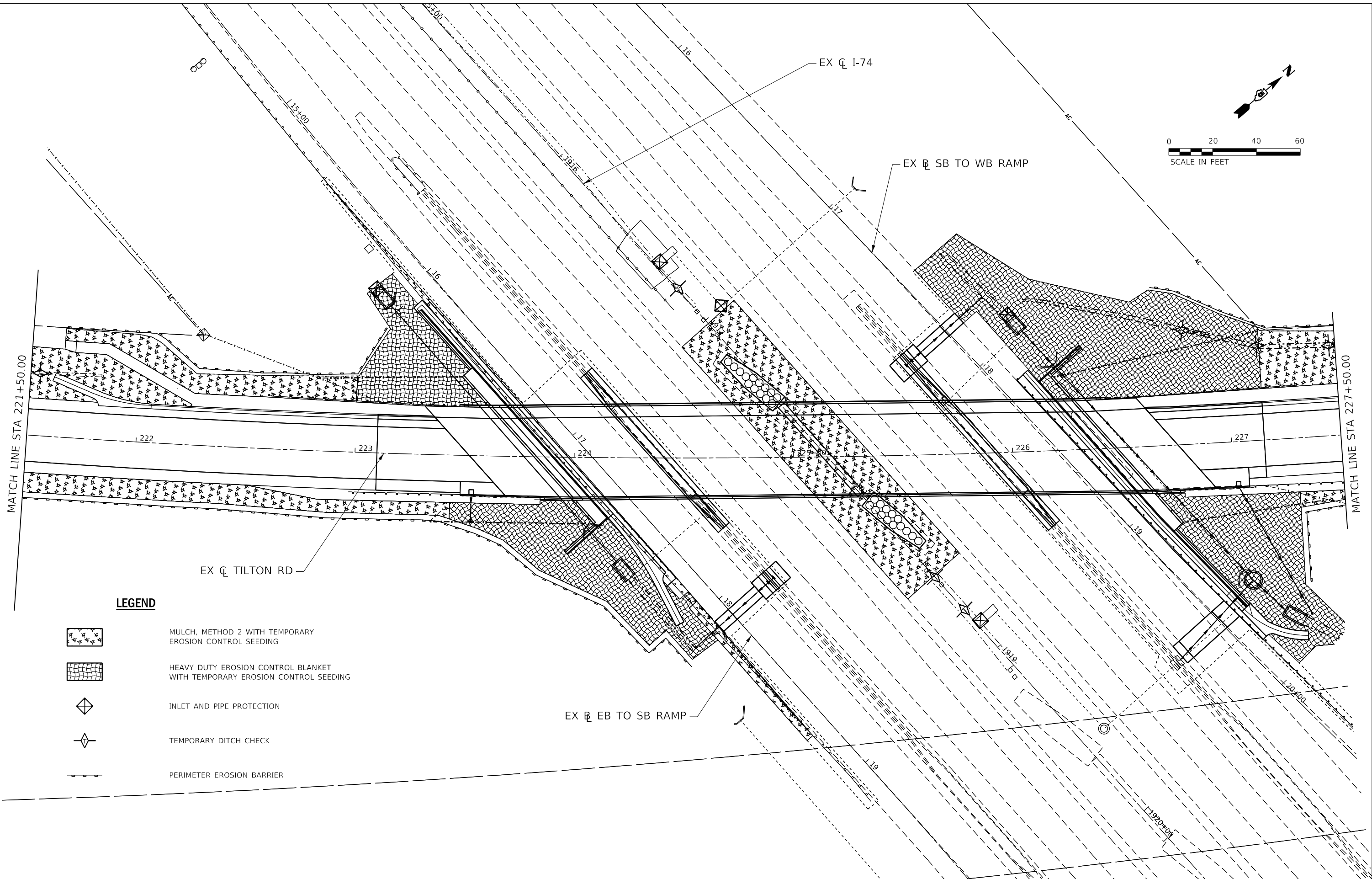
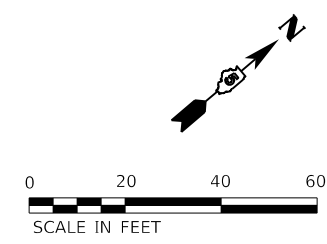
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






TEMPORARY EROSION CONTROL

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 216+00.00 TO STA. 221+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	50
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



LEGEND

-  MULCH, METHOD 2 WITH TEMPORARY EROSION CONTROL SEEDING
-  HEAVY DUTY EROSION CONTROL BLANKET WITH TEMPORARY EROSION CONTROL SEEDING
-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

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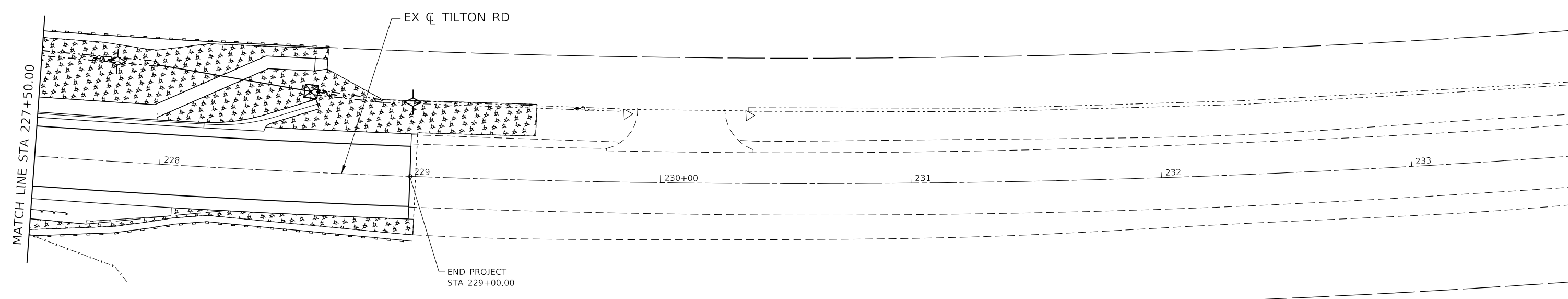
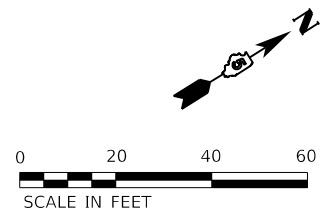


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



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY EROSION CONTROL
 SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 221+50.00 TO STA. 227+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	51
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



LEGEND

-  MULCH, METHOD 2 WITH TEMPORARY EROSION CONTROL SEEDING
-  HEAVY DUTY EROSION CONTROL BLANKET WITH TEMPORARY EROSION CONTROL SEEDING
-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

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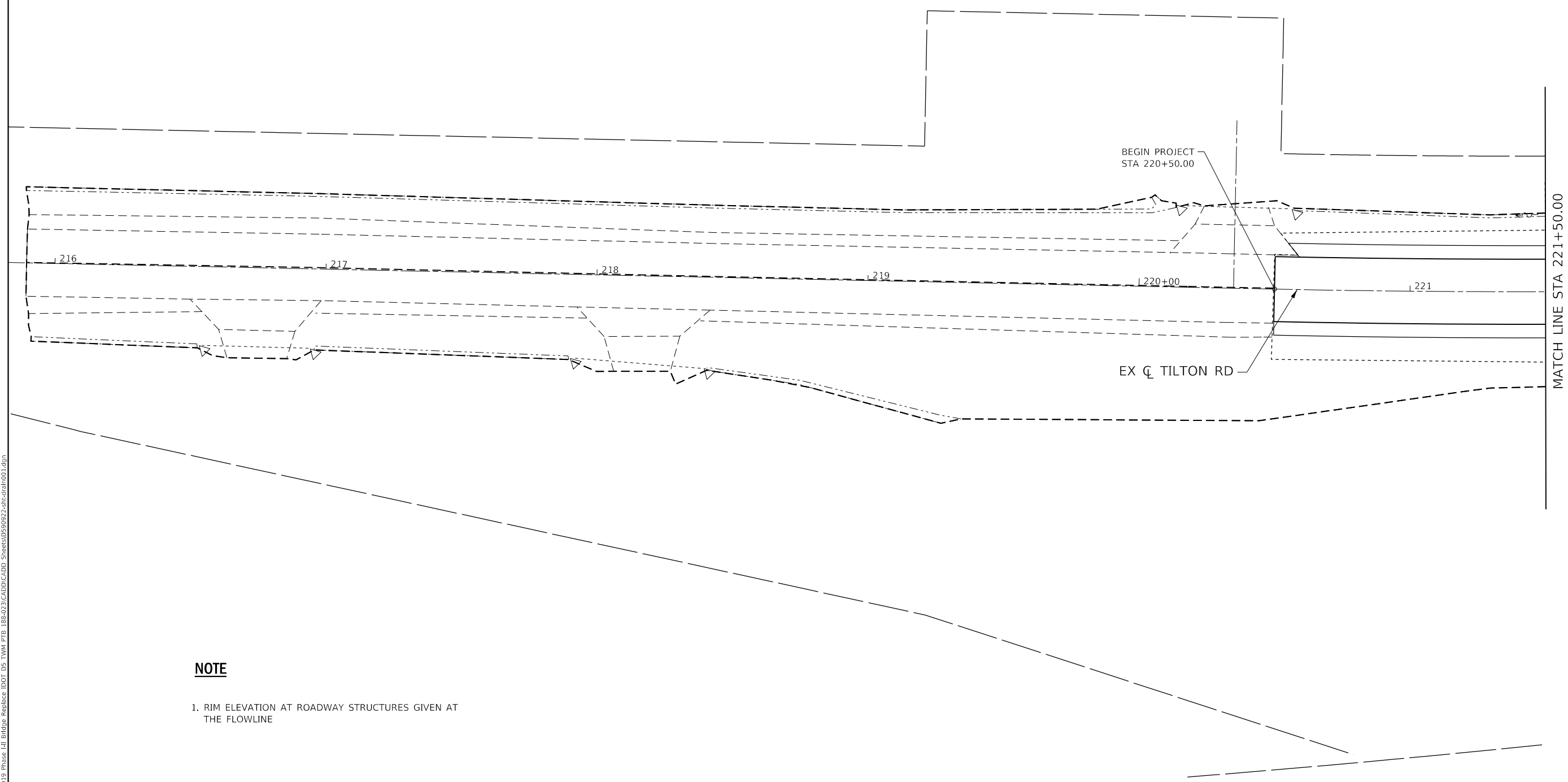
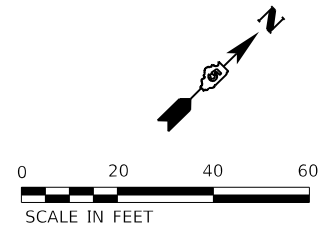
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY EROSION CONTROL

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 227+50.00 TO STA. 233+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	52
CONTRACT NO. 90922				
		ILLINOIS	FED. AID PROJECT	



NOTE

1. RIM ELEVATION AT ROADWAY STRUCTURES GIVEN AT THE FLOWLINE

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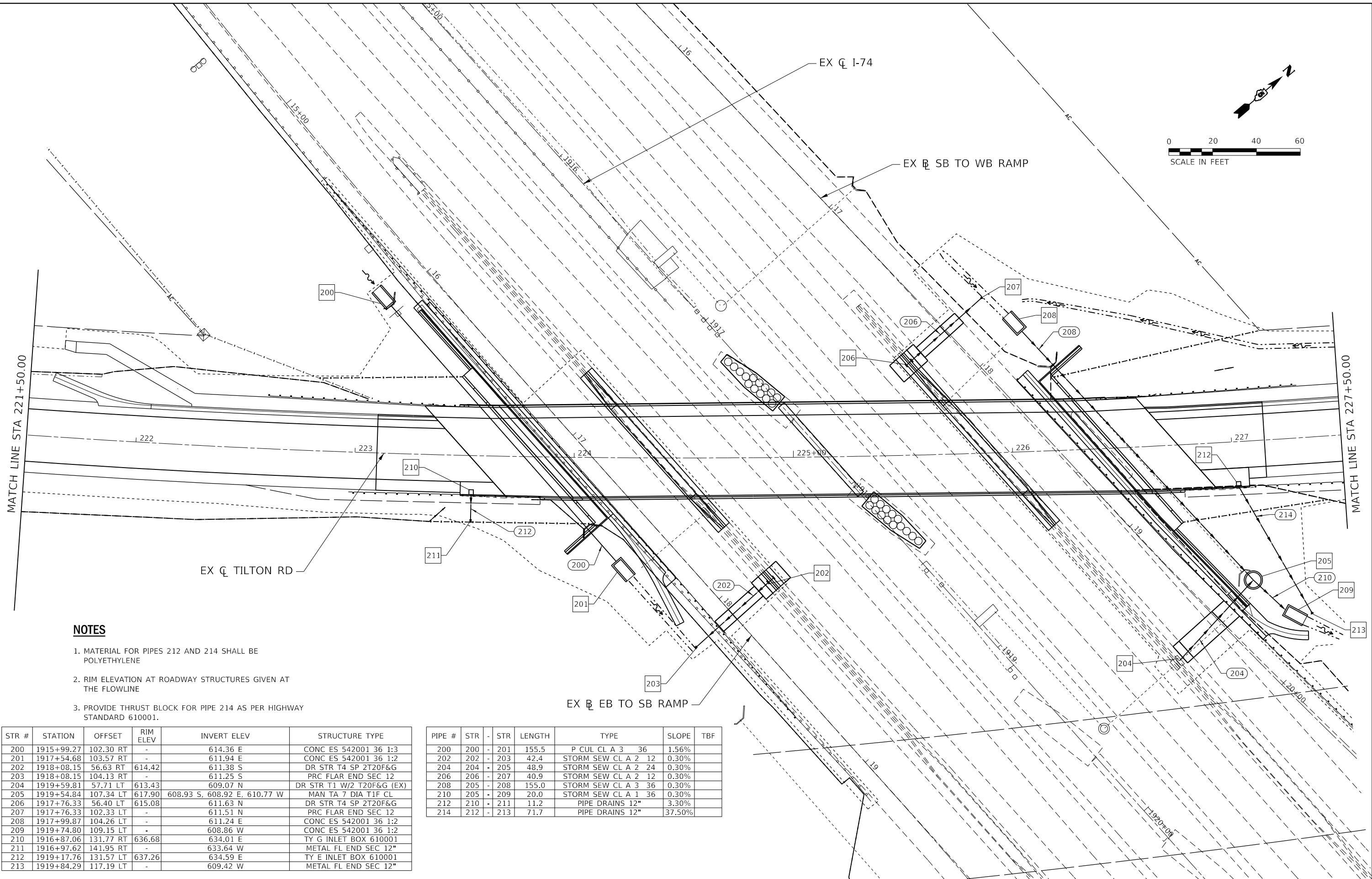
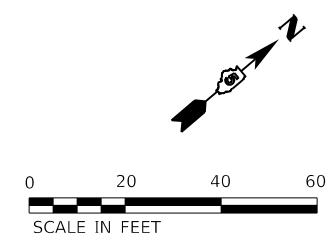
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PLOT DATE = 7/30/2020	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE PLAN

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 216+00.00 TO STA. 221+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	53
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



NOTES

1. MATERIAL FOR PIPES 212 AND 214 SHALL BE POLYETHYLENE
2. RIM ELEVATION AT ROADWAY STRUCTURES GIVEN AT THE FLOWLINE
3. PROVIDE THRUST BLOCK FOR PIPE 214 AS PER HIGHWAY STANDARD 610001.

STR #	STATION	OFFSET	RIM ELEV	INVERT ELEV	STRUCTURE TYPE
200	1915+99.27	102.30 RT	-	614.36 E	CONC ES 542001 36 1:3
201	1917+54.68	103.57 RT	-	611.94 E	CONC ES 542001 36 1:2
202	1918+08.15	56.63 RT	614.42	611.38 S	DR STR T4 SP 2T20F&G
203	1918+08.15	104.13 RT	-	611.25 S	PRC FLAR END SEC 12
204	1919+59.81	57.71 LT	613.43	609.07 N	DR STR T1 W/2 T20F&G (EX)
205	1919+54.84	107.34 LT	617.90	608.93 S, 608.92 E, 610.77 W	MAN TA 7 DIA T1F CL
206	1917+76.33	56.40 LT	615.08	611.63 N	DR STR T4 SP 2T20F&G
207	1917+76.33	102.33 LT	-	611.51 N	PRC FLAR END SEC 12
208	1917+99.87	104.26 LT	-	611.24 E	CONC ES 542001 36 1:2
209	1919+74.80	109.15 LT	-	608.86 W	CONC ES 542001 36 1:2
210	1916+87.06	131.77 RT	636.68	634.01 E	TY G INLET BOX 610001
211	1916+97.62	141.95 RT	-	633.64 W	METAL FL END SEC 12"
212	1919+17.76	131.57 LT	637.26	634.59 E	TY E INLET BOX 610001
213	1919+84.29	117.19 LT	-	609.42 W	METAL FL END SEC 12"

PIPE #	STR	STR	LENGTH	TYPE	SLOPE	TBF
200	200	201	155.5	P CUL CL A 3 36	1.56%	
202	202	203	42.4	STORM SEW CL A 2 12	0.30%	
204	204	205	48.9	STORM SEW CL A 2 24	0.30%	
206	206	207	40.9	STORM SEW CL A 2 12	0.30%	
208	205	208	155.0	STORM SEW CL A 3 36	0.30%	
210	205	209	20.0	STORM SEW CL A 1 36	0.30%	
212	210	211	11.2	PIPE DRAINS 12"	3.30%	
214	212	213	71.7	PIPE DRAINS 12"	37.50%	

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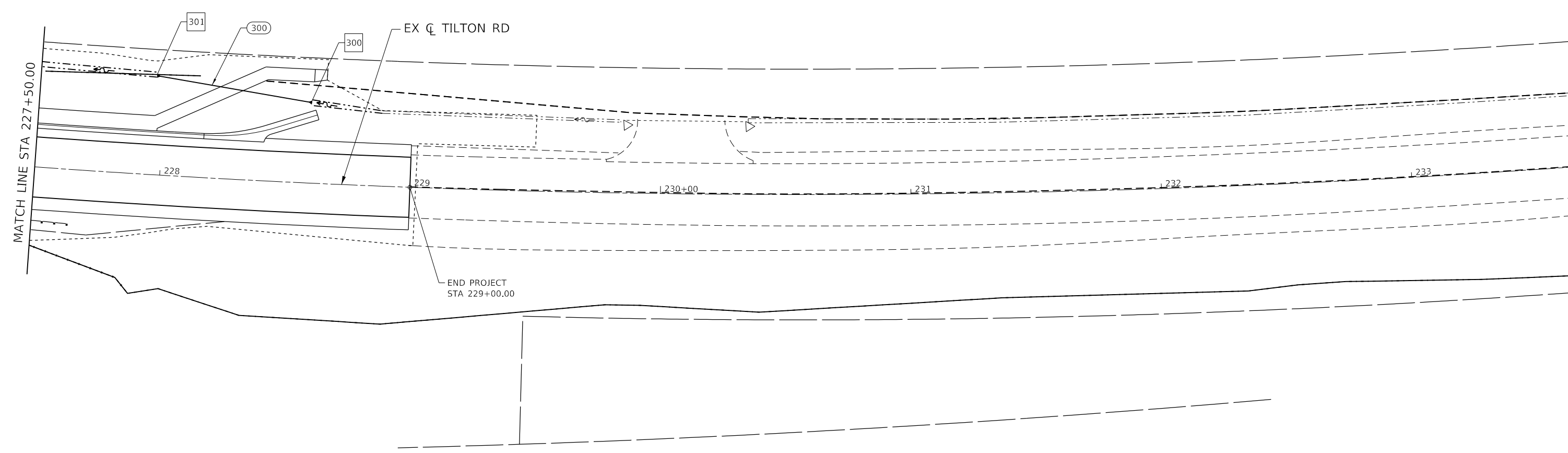
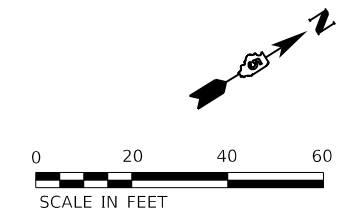
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	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE PLAN

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 221+50.00 TO STA. 227+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	54
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



STR #	STATION	OFFSET	RIM ELEV	INVERT ELEV	STRUCTURE TYPE
300	228+57.93	32.33 LT		633.05 NE	PRC FLAR END SEC 15
301	227+98.11	39.35 LT		632.72 SW	PRC FLAR END SEC 15

PIPE #	STR	STR	LENGTH	TYPE	SLOPE	TBF
300	300	301	62.8	P CUL CL A 1 15	0.53%	

NOTES

1. RIM ELEVATION AT ROADWAY STRUCTURE GIVEN AT THE FLOWLINE

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USER NAME = smaxwell	DESIGNED - JB	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - JB	REVISED -
PLOT DATE = 8/3/2020	CHECKED - SDM	REVISED -
	DATE - 07/31/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE PLAN

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 227+50.00 TO STA. 233+50.00

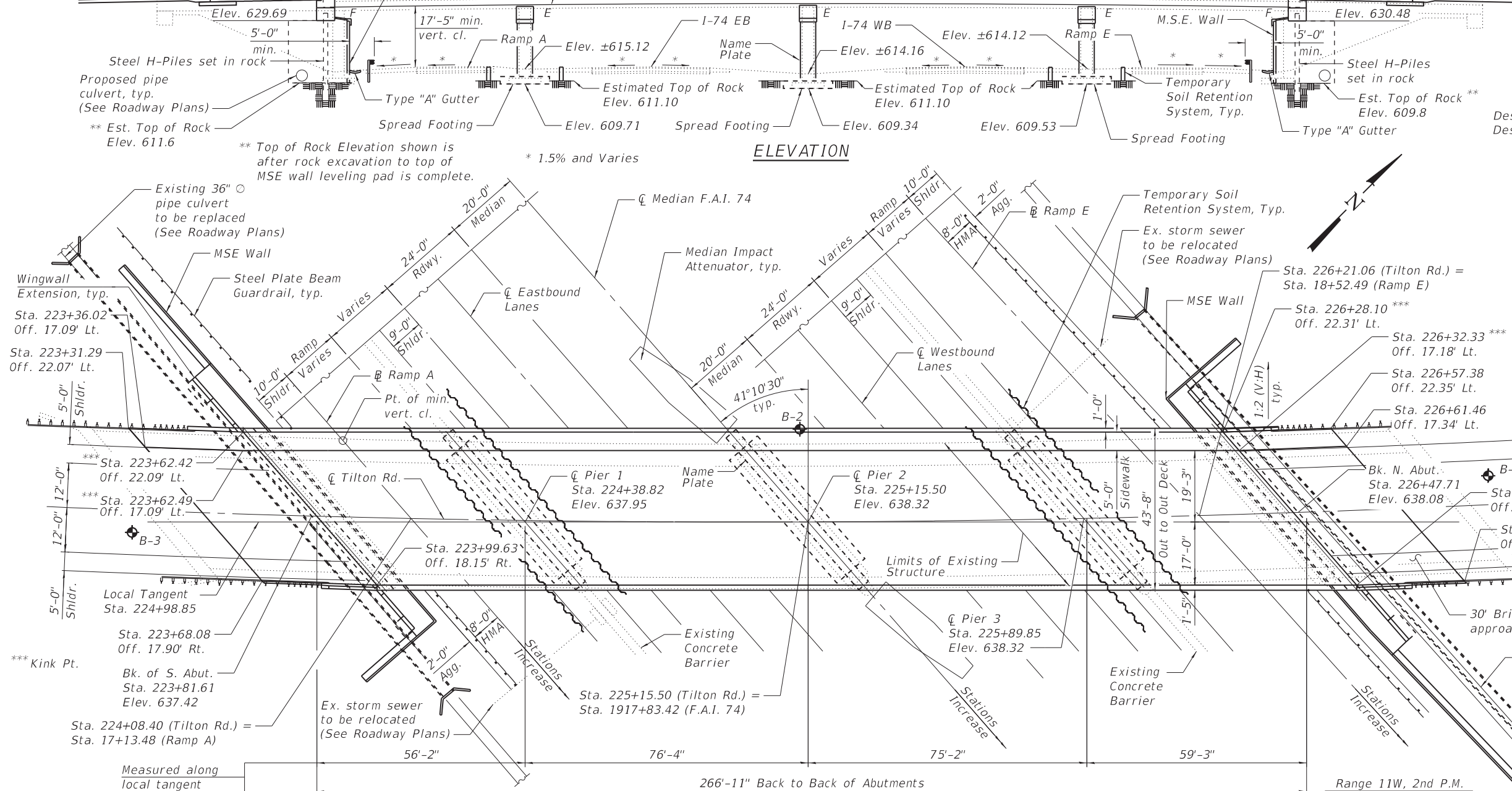
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74	(92-11HB-4)BR	VERMILION	133	55
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

Bench Mark: K 300 1986 Bench Mark Disk in the SE corner of SN 092-0087. Elevation = 636.30.

Existing Structure: SN 092-0087 was originally constructed in 1962 as a six-span (3 units with 2 continuous spans each) rolled steel beam bridge supported by stub abutments on concrete piles and multi-column reinforced concrete piers on spread footings. 357'-7 3/8" back to back abutments. 39'-0" out-to-out deck. Structure to be removed and replaced. Traffic is to be detoured.

No Salvage.

Traffic Barrier Terminal, Type 6 (Std. 631031) typ.



ELEVATION

PLAN

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 f'c = 4,000 psi (Superstructure concrete)
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)
 All structural steel shall be metallized.

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

LOADING HL-93

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

SEISMIC DATA

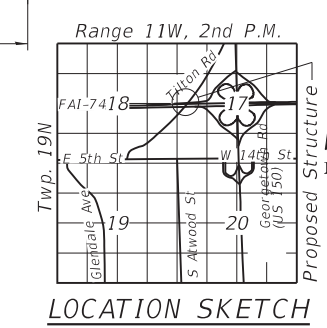
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.094g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.172g
 Soil Site Class = C

DESIGN SPECIFICATIONS

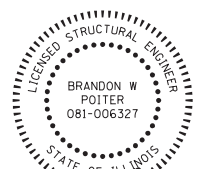
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

CURVE DATA

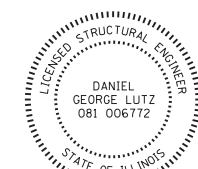
PI STA. = 227+37.18
 Δ = 18° 10' 36" (LT)
 D = 1° 20' 11"
 R = 4,287.62'
 T = 685.87'
 L = 1,360.21'
 E = 54.51'
 P.C. STA. = 220+51.31
 P.T. STA. = 234+11.52



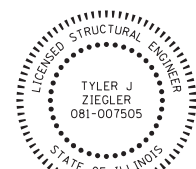
GENERAL PLAN & ELEVATION
TILTON ROAD OVER I-74
F.A.I. 74 - SEC. (92-11HB-4)BR
VERMILION COUNTY
STATION 225+15.50
STRUCTURE NO. 092-0204



Brandon W. Poiter
 EXPIRES: 11/30/2020
 DATE: 8/04/2020



Daniel George Lutz
 EXPIRES: 11/30/2020
 DATE: 8/04/2020



Tyler J. Ziegler
 EXPIRES: 11/30/2020
 DATE: 8/04/2020



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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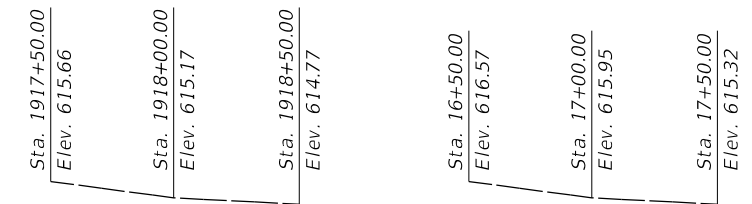
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	56
CONTRACT NO. 90922				

GENERAL NOTES:

- Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvanized bolts in metallized areas. Bolts 7/8 in. dia., holes 1 1/16 in. dia., unless otherwise noted.
- Calculated weight of Structural Steel:
M 270 Grade 50 = 283,440 lbs
M 270 Grade 36 = 31,560 lbs
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of Pier 1 and Pier 3.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- All new structure steel shall be metallized. See Special Provision for "Metallizing of Structural Steel".
- The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- Slipforming of parapets is not allowed.

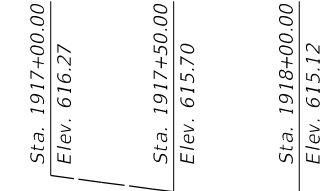
INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Footing Layout
- 4-6 Top of Slab Elevations
- 7 Top of Slab Elevations - South Approach
- 8 Top of Slab Elevations - North Approach
- 9-10 Superstructure
- 11-12 Superstructure Details
- 13 Diaphragm Details
- 14-17 Bridge Approach Slab Details
- 18 Bridge Fence Railing, Parapet Mounted
- 19 Parapet Railing
- 20 Structural Steel Framing Plan
- 21 Structural Steel Details
- 22 Bearing Details
- 23 South Abutment
- 24 North Abutment
- 25 Wingwall Extension
- 26 Pier 1
- 27 Pier 2
- 28 Pier 3
- 29 MSE Wall South Abutment
- 30 MSE Wall North Abutment
- 31 MSE Wall Details
- 32 HP Pile Details
- 33-38 Soil Boring Logs



PROFILE GRADE
(along \bar{C} I-74 Westbound)

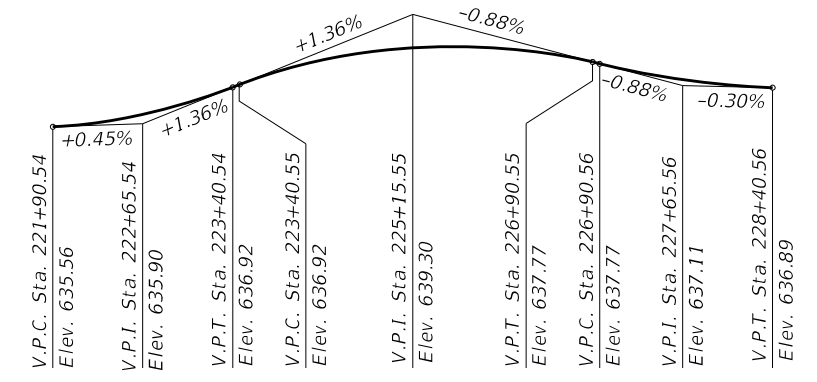
PROFILE GRADE
(along \bar{C} Ramp A)



PROFILE GRADE
(along \bar{C} I-74 Eastbound)



PROFILE GRADE
(along \bar{C} Ramp E)



LVC = 150.00' LVC = 350.00' LVC = 150.00'

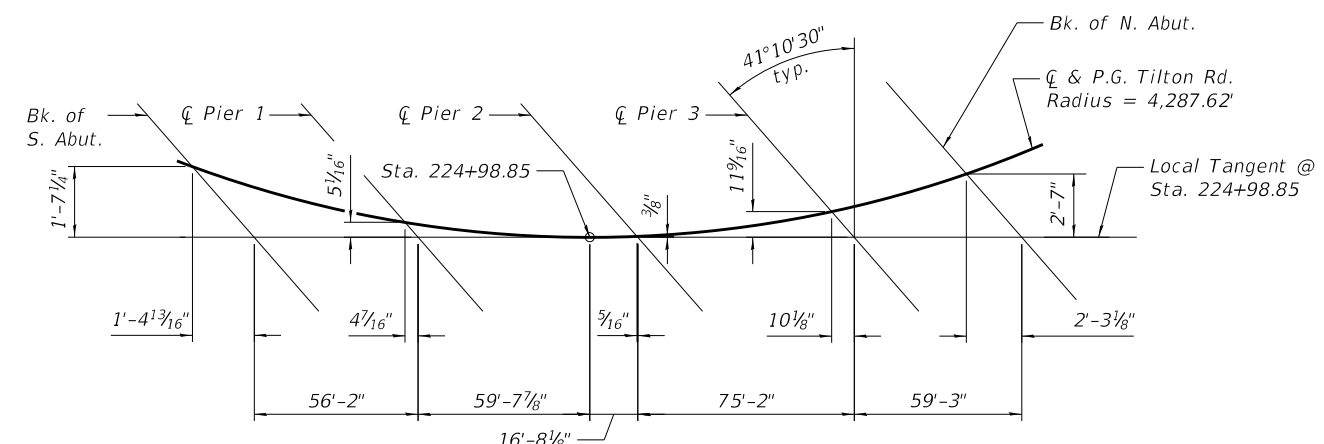
PROFILE GRADE
(along \bar{C} Tilton Road)

STATION 225+15.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. 74 - SEC. (92-11HB-4)BR
LOADING HL-93
STRUCTURE NO. 092-0204

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Protective Shield	Sq. Yd.	1,040		1,040
Structure Excavation	Cu. Yd.		1,052	1,052
Rock Excavation for Structures	Cu. Yd.		531	531
Concrete Structures	Cu. Yd.		481.5	481.5
Concrete Superstructure	Cu. Yd.	459.6		459.6
Bridge Deck Grooving	Sq. Yd.	1,234		1,234
Protective Coat	Sq. Yd.	1,763		1,763
Concrete Superstructure (Approach Slab)	Cu. Yd.	120.8		120.8
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	7,470	168	7,638
Reinforcement Bars	Pound		580	580
Reinforcement Bars, Epoxy Coated	Pound	146,630	72,190	218,820
Bridge Fence Railing	Foot	285		285
Parapet Railing	Foot	289		289
Furnishing Steel Piles HP 14x89	Foot		498	498
Name Plates	Each		1	1
Elastomeric Bearing Assembly, Type 1	Each		18	18
Anchor Bolts 1"	Each		24	24
Anchor Bolts 1 1/4"	Each		36	36
Temporary Soil Retention System	Sq. Ft.		839	839
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.		5,037	5,037
Granular Backfill for Structures	Cu. Yd.		183	183
Concrete Sealer	Sq. Ft.		3,653	3,653
Setting Piles in Rock	Each		12	12



OFFSET SKETCH

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REVISED -
 REVISED -
 REVISED -
 REVISED -

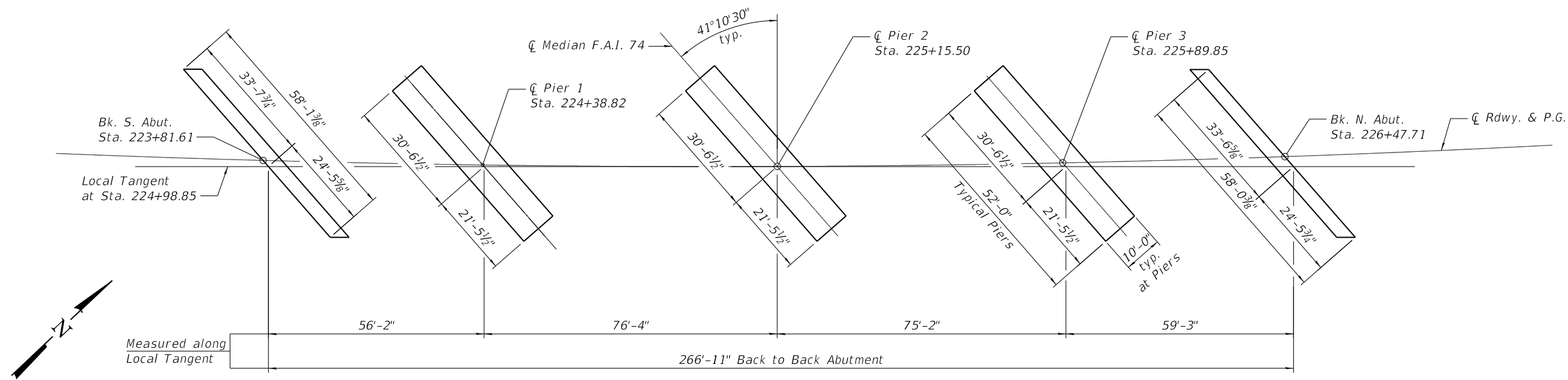
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 STRUCTURE NO. 092-0204**

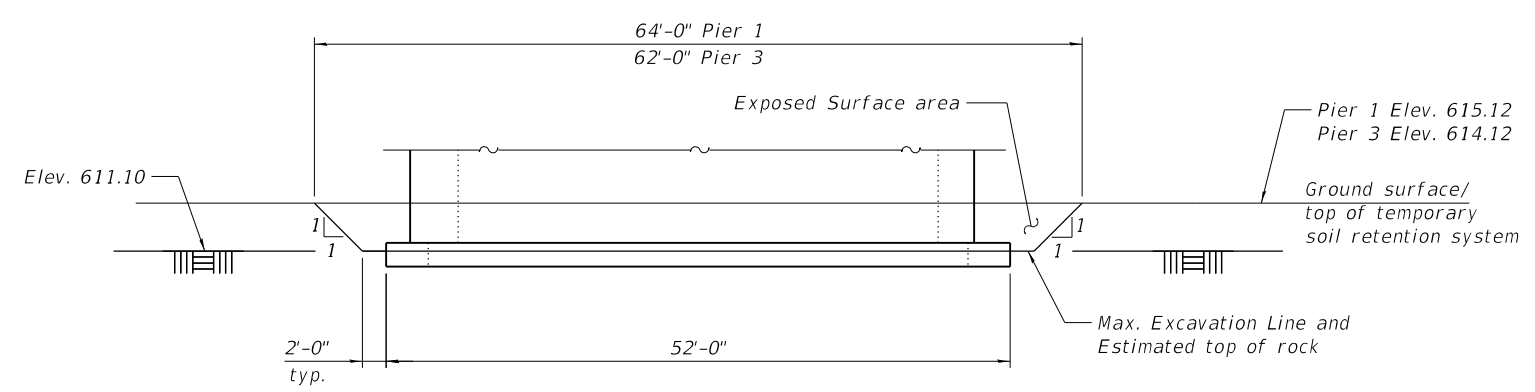
SHEET 2 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	57
CONTRACT NO. 90922				

ILLINOIS FED. AID PROJECT



FOOTING LAYOUT



TEMPORARY SOIL RETENTION SYSTEM

Note:
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

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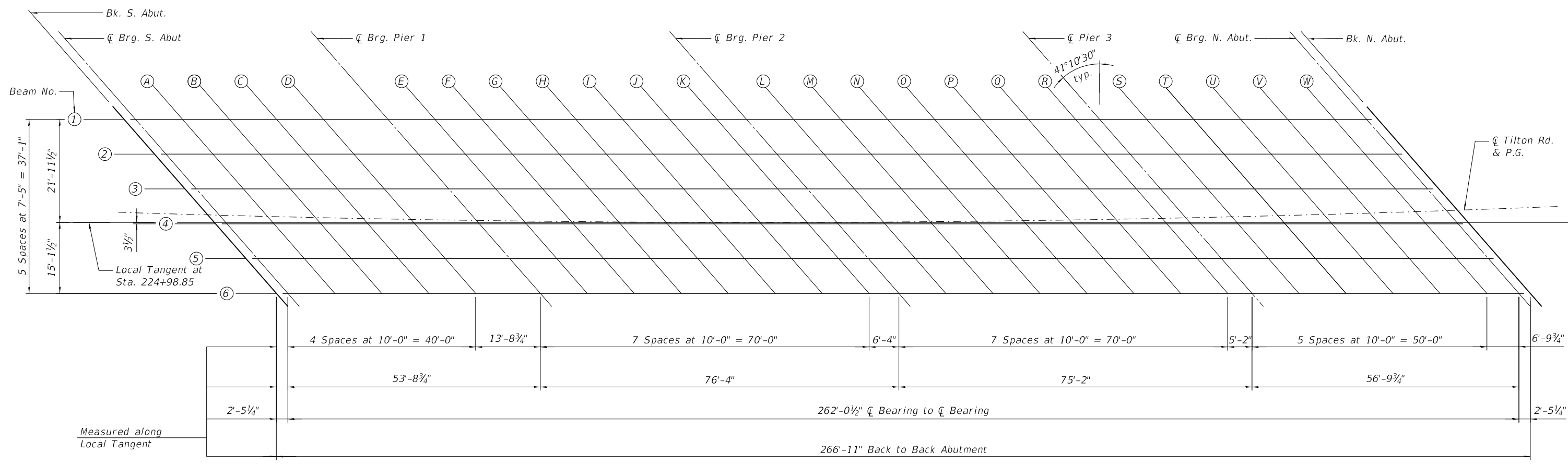
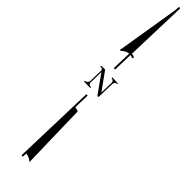
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	CHECKED - BWP	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FOOTING LAYOUT
 STRUCTURE NO. 092-0204**

SHEET 3 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	58
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



PLAN

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

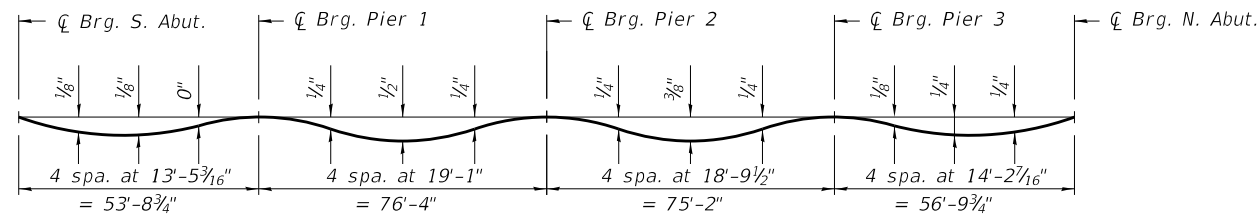
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0204

SHEET 4 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	59
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

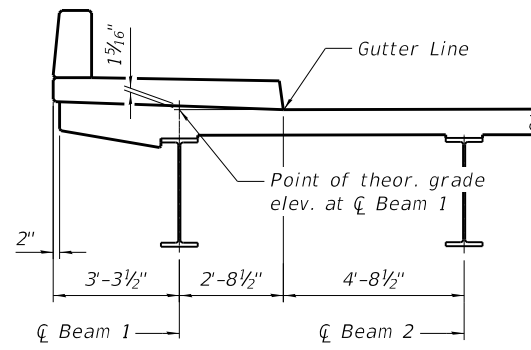


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

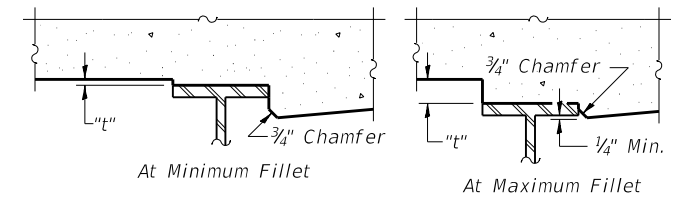
Note:

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 as shown below and on sheet 6 of 38.



SECTION THRU SIDEWALK

(Looking North)



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 and on sheet 6 of 38. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on Sheet 6 of 38, minus slab 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 S. Abut.	223+63.17	-19.82	636.87	636.87
☐ S. Abut.	223+65.61	-19.90	636.90	636.90
A	223+75.66	-20.20	637.01	637.03
B	223+85.70	-20.47	637.12	637.14
C	223+95.75	-20.72	637.22	637.23
D	224+05.79	-20.95	637.31	637.32
☐ Brg. Pier 1	224+19.59	-21.23	637.43	637.43
E	224+29.64	-21.40	637.51	637.52
F	224+39.69	-21.55	637.58	637.62
G	224+49.74	-21.68	637.65	637.70
H	224+59.79	-21.78	637.71	637.76
I	224+69.84	-21.86	637.77	637.81
J	224+79.89	-21.92	637.82	637.84
K	224+89.94	-21.95	637.86	637.86
☐ Brg. Pier 2	224+96.31	-21.96	637.88	637.88
L	225+06.36	-21.95	637.92	637.92
M	225+16.41	-21.92	637.94	637.97
N	225+26.46	-21.87	637.96	638.00
O	225+36.51	-21.79	637.98	638.02
P	225+46.56	-21.69	637.99	638.02
Q	225+56.61	-21.57	637.99	638.01
R	225+66.66	-21.42	637.99	638.00
☐ Brg. Pier 3	225+71.85	-21.34	637.99	637.99
S	225+81.90	-21.16	637.98	637.98
T	225+91.95	-20.95	637.96	637.97
U	226+01.99	-20.72	637.93	637.96
V	226+12.04	-20.47	637.90	637.93
W	226+22.08	-20.20	637.87	637.88
☐ N. Abut.	226+28.93	-19.99	637.84	637.84
Bk. N. Abut	226+31.37	-19.92	637.83	637.83

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	223+69.91	-12.61	637.10	637.10
☐ S. Abut.	223+72.35	-12.68	637.13	637.13
A	223+82.37	-12.96	637.23	637.25
B	223+92.40	-13.22	637.33	637.35
C	224+02.43	-13.46	637.43	637.44
D	224+12.46	-13.67	637.52	637.52
☐ Brg. Pier 1	224+26.23	-13.93	637.63	637.63
E	224+36.26	-14.09	637.71	637.72
F	224+46.30	-14.22	637.78	637.81
G	224+56.33	-14.33	637.84	637.89
H	224+66.36	-14.42	637.90	637.95
I	224+76.40	-14.48	637.95	637.99
J	224+86.43	-14.52	637.99	638.02
K	224+96.46	-14.54	638.03	638.04
☐ Brg. Pier 2	225+02.82	-14.54	638.05	638.05
L	225+12.85	-14.52	638.08	638.09
M	225+22.89	-14.47	638.11	638.13
N	225+32.92	-14.41	638.12	638.16
O	225+42.95	-14.32	638.14	638.18
P	225+52.99	-14.20	638.14	638.18
Q	225+63.02	-14.06	638.14	638.16
R	225+73.05	-13.90	638.13	638.14
☐ Brg. Pier 3	225+78.23	-13.81	638.13	638.13
S	225+88.26	-13.61	638.11	638.12
T	225+98.29	-13.39	638.09	638.11
U	226+08.32	-13.15	638.06	638.09
V	226+18.35	-12.88	638.03	638.05
W	226+28.37	-12.59	637.99	638.00
☐ N. Abut.	226+35.20	-12.38	637.96	637.96
Bk. N. Abut	226+37.64	-12.30	637.95	637.95

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	223+76.62	-5.39	637.29	637.29
☐ S. Abut.	223+79.06	-5.45	637.31	637.31
A	223+89.07	-5.72	637.42	637.43
B	223+99.08	-5.97	637.52	637.53
C	224+09.09	-6.19	637.61	637.62
D	224+19.11	-6.38	637.70	637.70
☐ Brg. Pier 1	224+32.85	-6.62	637.80	637.80
E	224+42.87	-6.76	637.88	637.89
F	224+52.88	-6.88	637.94	637.97
G	224+62.90	-6.97	638.00	638.05
H	224+72.92	-7.05	638.05	638.10
I	224+82.93	-7.10	638.10	638.14
J	224+92.95	-7.12	638.14	638.17
K	225+02.97	-7.12	638.18	638.18
☐ Brg. Pier 2	225+09.31	-7.11	638.20	638.20
L	225+19.33	-7.08	638.22	638.23
M	225+29.34	-7.02	638.24	638.27
N	225+39.36	-6.93	638.25	638.29
O	225+49.37	-6.83	638.26	638.30
P	225+59.39	-6.70	638.26	638.30
Q	225+69.40	-6.55	638.26	638.28
R	225+79.42	-6.37	638.25	638.25
☐ Brg. Pier 3	225+84.59	-6.27	638.24	638.24
S	225+94.60	-6.06	638.22	638.22
T	226+04.61	-5.82	638.19	638.21
U	226+14.62	-5.56	638.16	638.18
V	226+24.63	-5.28	638.12	638.14
W	226+34.64	-4.98	638.08	638.09
☐ N. Abut.	226+41.46	-4.76	638.04	638.04
Bk. N. Abut	226+43.89	-4.67	638.03	638.03

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PLOT DATE = 8/4/2020	CHECKED - BWP	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0204**

SHEET 5 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	60
CONTRACT NO. 90922				
ILLINOIS		FED. AID PROJECT		

CL Roadway & Profile Grade Line

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	223+81.61	0.00	637.42	637.42
☒ S. Abut.	223+84.10	0.00	637.45	637.45
A	223+94.34	0.00	637.56	637.57
B	224+04.55	0.00	637.66	637.68
C	224+14.73	0.00	637.75	637.77
D	224+24.90	0.00	637.84	637.84
☒ Brg. Pier 1	224+38.82	0.00	637.95	637.95
E	224+48.94	0.00	638.02	638.03
F	224+59.03	0.00	638.08	638.12
G	224+69.10	0.00	638.14	638.19
H	224+79.15	0.00	638.19	638.24
I	224+89.18	0.00	638.23	638.27
J	224+99.19	0.00	638.27	638.30
K	225+09.18	0.00	638.30	638.31
☒ Brg. Pier 2	225+15.50	0.00	638.32	638.32
L	225+25.45	0.00	638.34	638.35
M	225+35.39	0.00	638.36	638.38
N	225+45.31	0.00	638.36	638.40
O	225+55.20	0.00	638.36	638.41
P	225+65.08	0.00	638.36	638.39
Q	225+74.94	0.00	638.35	638.37
R	225+84.78	0.00	638.33	638.34
☒ Brg. Pier 3	225+89.85	0.00	638.32	638.32
S	225+99.66	0.00	638.30	638.30
T	226+09.46	0.00	638.26	638.28
U	226+19.23	0.00	638.22	638.25
V	226+28.98	0.00	638.18	638.20
W	226+38.72	0.00	638.13	638.14
☒ N. Abut.	226+45.35	0.00	638.09	638.09
Bk. N. Abut	226+47.71	0.00	638.08	638.08

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	223+83.32	1.85	637.42	637.42
☒ S. Abut.	223+85.75	1.78	637.44	637.44
A	223+95.74	1.53	637.55	637.56
B	224+05.74	1.30	637.65	637.67
C	224+15.73	1.10	637.75	637.76
D	224+25.73	0.92	637.83	637.84
☒ Brg. Pier 1	224+39.45	0.70	637.94	637.94
E	224+49.45	0.58	638.01	638.03
F	224+59.45	0.47	638.08	638.11
G	224+69.45	0.39	638.14	638.18
H	224+79.45	0.34	638.19	638.24
I	224+89.45	0.30	638.23	638.27
J	224+99.45	0.29	638.27	638.29
K	225+09.45	0.30	638.30	638.31
☒ Brg. Pier 2	225+15.78	0.33	638.32	638.32
L	225+25.78	0.38	638.34	638.34
M	225+35.78	0.45	638.35	638.37
N	225+45.77	0.55	638.36	638.39
O	225+55.77	0.67	638.35	638.40
P	225+65.77	0.81	638.35	638.38
Q	225+75.77	0.98	638.33	638.35
R	225+85.76	1.17	638.31	638.32
☒ Brg. Pier 3	225+90.93	1.28	638.30	638.30
S	226+00.92	1.51	638.27	638.27
T	226+10.91	1.76	638.23	638.25
U	226+20.90	2.03	638.19	638.21
V	226+30.90	2.33	638.14	638.16
W	226+40.88	2.65	638.08	638.09
☒ N. Abut.	226+47.69	2.88	638.04	638.04
Bk. N. Abut	226+50.12	2.96	638.02	638.02

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	223+89.99	9.09	637.38	637.38
☒ S. Abut.	223+92.42	9.03	637.40	637.40
A	224+02.39	8.80	637.51	637.52
B	224+12.37	8.58	637.60	637.62
C	224+22.35	8.39	637.69	637.71
D	224+32.33	8.23	637.78	637.78
☒ Brg. Pier 1	224+46.03	8.03	637.88	637.88
E	224+56.01	7.92	637.94	637.96
F	224+65.99	7.83	638.00	638.04
G	224+75.97	7.77	638.06	638.11
H	224+85.96	7.73	638.11	638.16
I	224+95.94	7.71	638.14	638.19
J	225+05.92	7.71	638.18	638.20
K	225+15.90	7.74	638.20	638.21
☒ Brg. Pier 2	225+22.22	7.77	638.22	638.22
L	225+32.21	7.84	638.23	638.24
M	225+42.19	7.93	638.24	638.27
N	225+52.17	8.04	638.24	638.28
O	225+62.15	8.18	638.24	638.28
P	225+72.13	8.34	638.23	638.26
Q	225+82.11	8.52	638.21	638.23
R	225+92.08	8.72	638.19	638.19
☒ Brg. Pier 3	225+97.24	8.84	638.17	638.17
S	226+07.22	9.08	638.13	638.14
T	226+17.19	9.34	638.09	638.11
U	226+27.16	9.63	638.04	638.07
V	226+37.14	9.94	637.99	638.01
W	226+47.11	10.28	637.93	637.94
☒ N. Abut.	226+53.90	10.52	637.88	637.88
Bk. N. Abut	226+56.33	10.61	637.86	637.86

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	223+96.63	16.35	637.32	637.32
☒ S. Abut.	223+99.06	16.29	637.34	637.34
A	224+09.02	16.07	637.44	637.45
B	224+18.98	15.87	637.53	637.55
C	224+28.94	15.70	637.62	637.63
D	224+38.91	15.55	637.70	637.70
☒ Brg. Pier 1	224+52.59	15.38	637.79	637.79
E	224+62.55	15.28	637.86	637.87
F	224+72.51	15.21	637.91	637.95
G	224+82.48	15.16	637.96	638.01
H	224+92.44	15.13	638.00	638.05
I	225+02.41	15.13	638.04	638.08
J	225+12.37	15.15	638.07	638.09
K	225+22.34	15.19	638.09	638.10
☒ Brg. Pier 2	225+28.65	15.23	638.10	638.10
L	225+38.61	15.31	638.11	638.12
M	225+48.58	15.41	638.12	638.14
N	225+58.54	15.54	638.11	638.15
O	225+68.50	15.69	638.10	638.15
P	225+78.46	15.87	638.09	638.12
Q	225+88.42	16.06	638.06	638.08
R	225+98.38	16.28	638.03	638.04
☒ Brg. Pier 3	226+03.53	16.41	638.02	638.02
S	226+13.49	16.66	637.97	637.98
T	226+23.45	16.94	637.93	637.94
U	226+33.40	17.24	637.87	637.90
V	226+43.36	17.57	637.81	637.84
W	226+53.31	17.92	637.74	637.76
☒ N. Abut.	226+60.09	18.17	637.69	637.69
Bk. N. Abut	226+62.51	18.26	637.68	637.68

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PLOT DATE = 8/4/2020	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0204

SHEET 6 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	61
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	223+36.02	-17.09	636.58
A1	223+46.39	-17.11	636.72
A2	223+56.75	-17.10	636.85
Kink Pt.	223+62.49	-17.09	636.92
N. End of S. Appr. Slab	223+66.97	-17.23	636.97

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	223+40.84	-12.00	636.74
A1	223+51.20	-12.00	636.88
A2	223+61.53	-12.00	637.01
N. End of S. Appr. Slab	223+71.84	-12.00	637.13

CL ROADWAY & PG

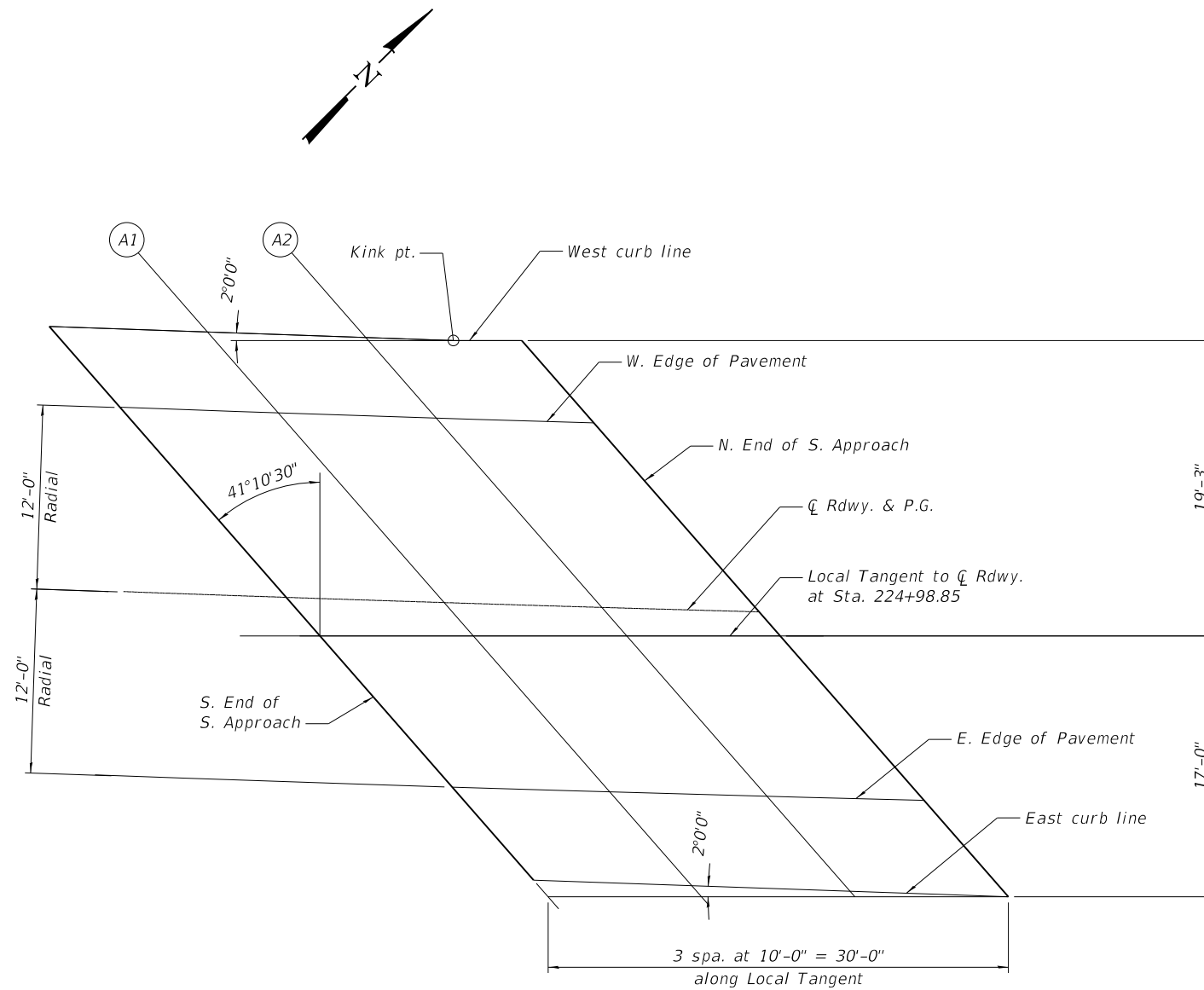
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	223+52.13	0.00	637.07
A1	223+62.43	0.00	637.20
A2	223+72.71	0.00	637.32
N. End of S. Appr. Slab	223+82.97	0.00	637.44

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	223+63.33	12.00	637.03
A1	223+73.58	12.00	637.15
A2	223+83.80	12.00	637.27
N. End of S. Appr. Slab	223+94.01	12.00	637.38

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	223+68.80	17.90	636.98
A1	223+79.08	17.96	637.10
A2	223+89.36	18.04	637.21
N. End of S. Appr. Slab	223+99.63	18.15	637.31



PLAN

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PLOT DATE = 8/4/2020	CHECKED - BWP	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - SOUTH APPROACH
STRUCTURE NO. 092-0204**

SHEET 7 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	62
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	226+32.33	-17.18	637.88
A3	226+42.04	-17.26	637.83
A4	226+51.75	-17.31	637.77
N. End of N. Appr. Slab	226+61.46	-17.34	637.70

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	226+36.60	-12.00	637.96
A3	226+46.35	-12.00	637.91
A4	226+56.08	-12.00	637.85
N. End of N. Appr. Slab	226+65.79	-12.00	637.78

☐ ROADWAY & PG

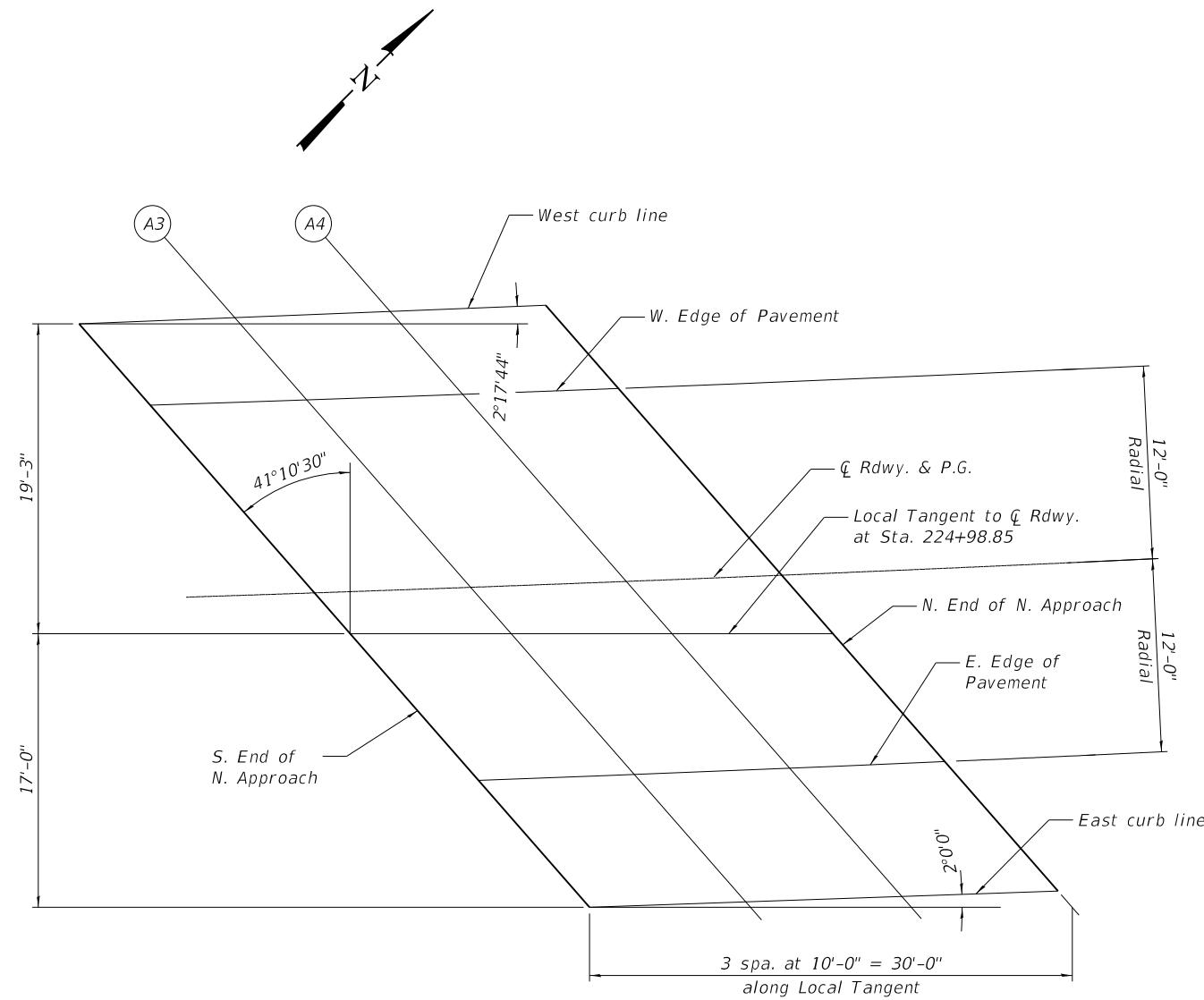
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	226+46.42	0.00	638.09
A3	226+56.13	0.00	638.03
A4	226+65.81	0.00	637.96
N. End of N. Appr. Slab	226+75.48	0.00	637.89

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	226+56.17	12.00	637.84
A3	226+65.83	12.00	637.78
A4	226+75.47	12.00	637.71
N. End of N. Appr. Slab	226+85.10	12.00	637.63

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	226+62.75	20.15	637.64
A3	226+72.42	20.19	637.57
A4	226+82.08	20.26	637.49
N. End of N. Appr. Slab	226+91.74	20.34	637.40



PLAN

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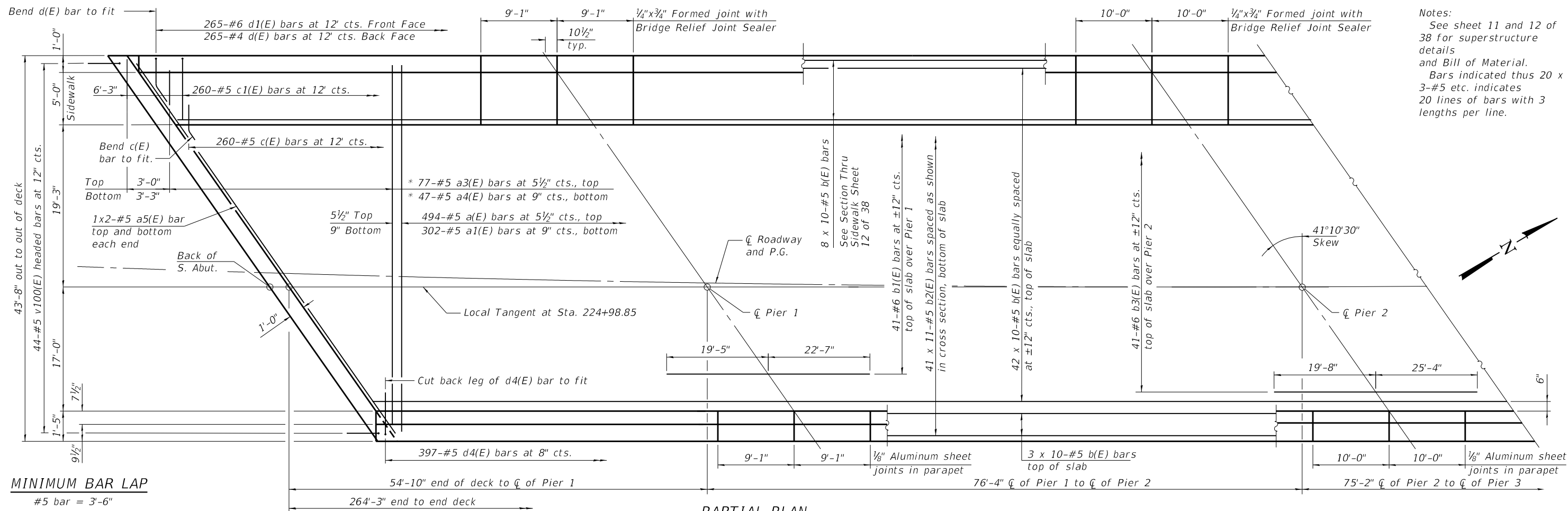
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - NORTH APPROACH
STRUCTURE NO. 092-0204**

SHEET 8 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	63
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



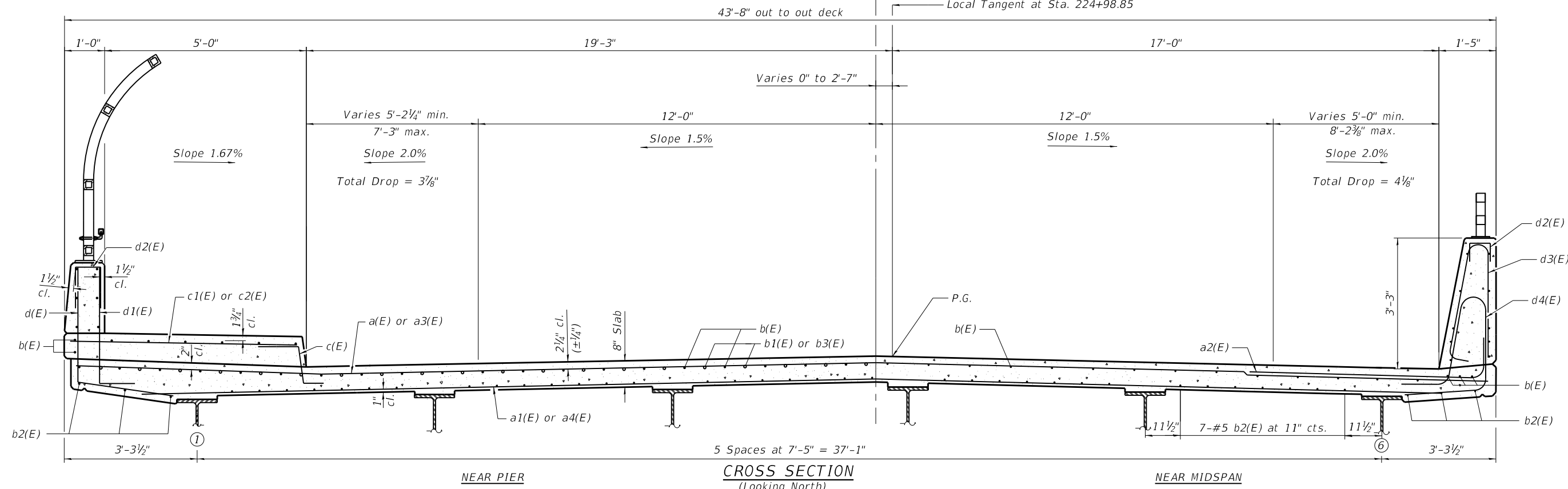
Notes:
 See sheet 11 and 12 of 38 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP

#5 bar = 3'-6"

* See Field Cutting Diagram on sheet 11 of 38.

PARTIAL PLAN



CROSS SECTION
(Looking North)

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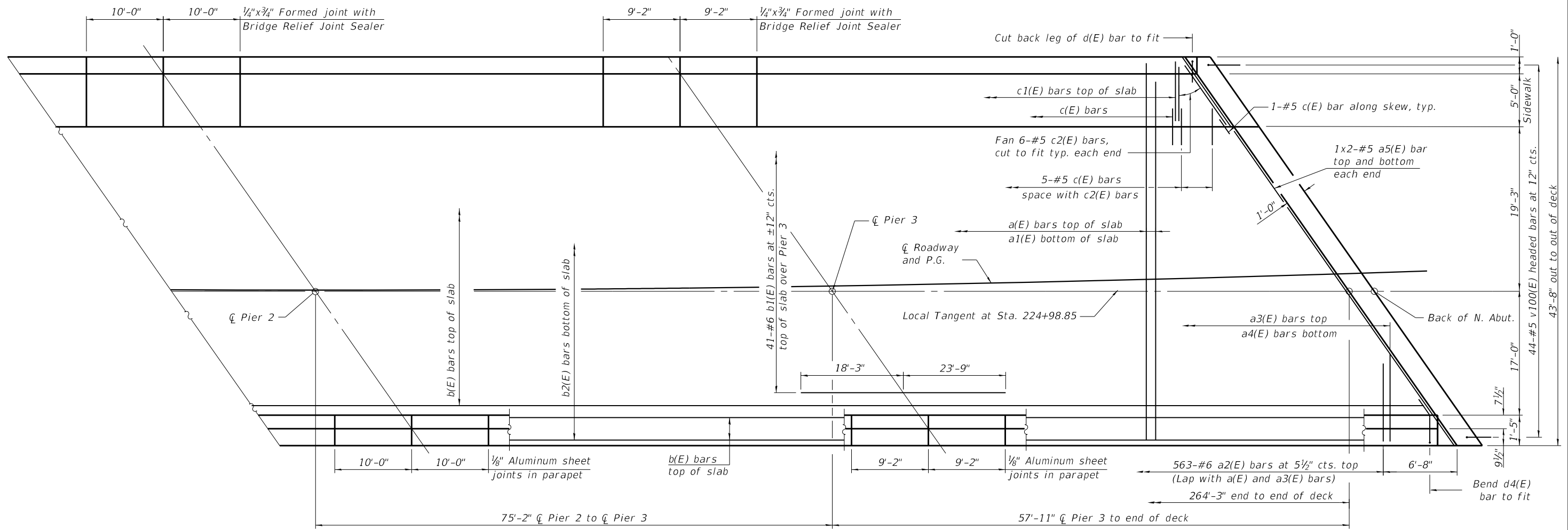
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 092-0204

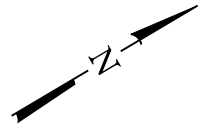
SHEET 9 OF 38 SHEETS

F.A.I. RTE. 74	SECTION (92-11HB-4)BR	COUNTY VERMILION	TOTAL SHEETS 133	SHEET NO. 64
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



Notes:
 See sheets 11 and 12 of 38 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PARTIAL PLAN



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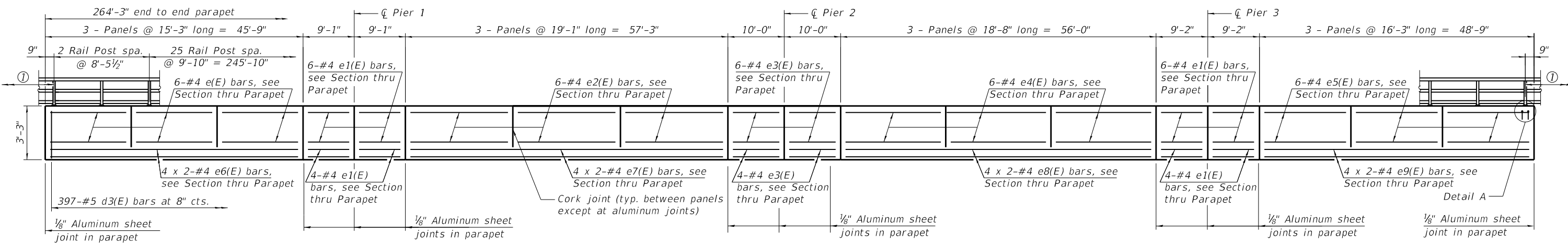
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE
 STRUCTURE NO. 092-0204**

SHEET 10 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	65
CONTRACT NO. 90922				

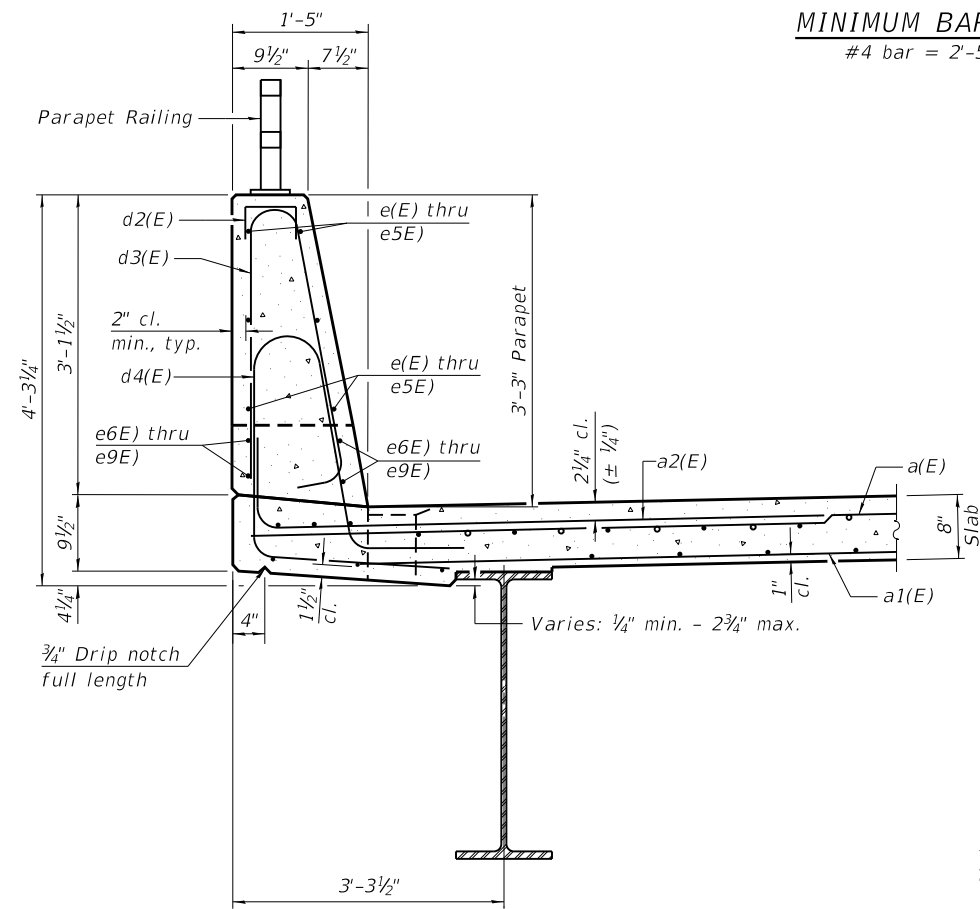
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① 2 Rail Post spaces at 6'-6" = 13'-0" along approach parapet

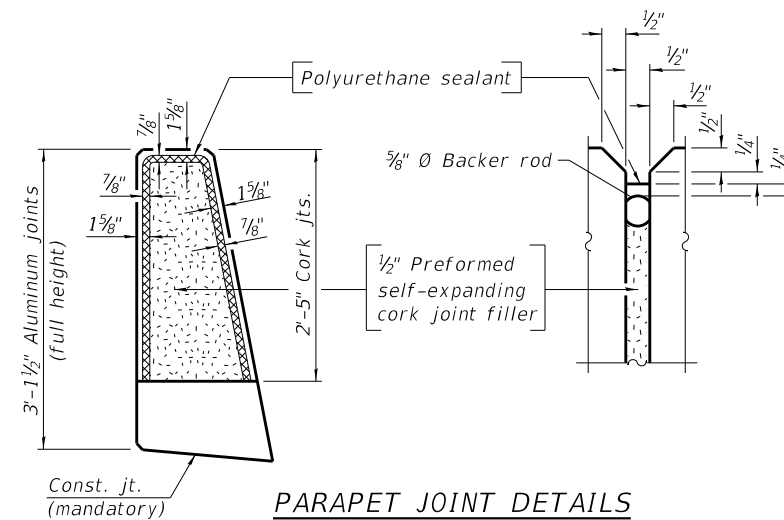
OUTSIDE ELEVATION OF EAST PARAPET

(Looking West)

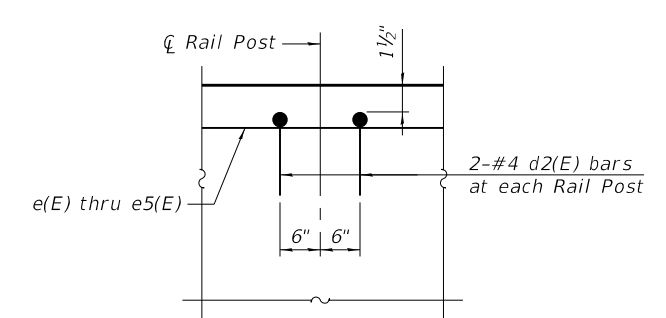


SECTION THRU PARAPET

MINIMUM BAR LAP
#4 bar = 2'-5"



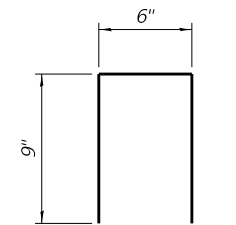
PARAPET JOINT DETAILS



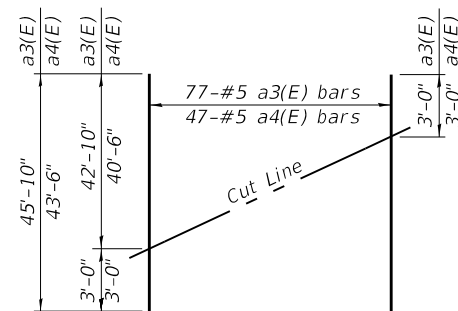
DETAIL A

Notes:

The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

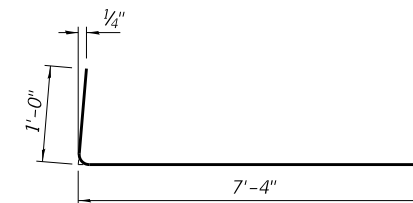


BAR d2(E)

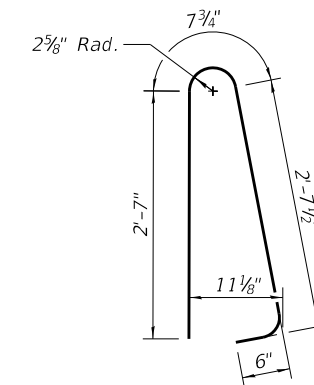


FIELD CUTTING DIAGRAM

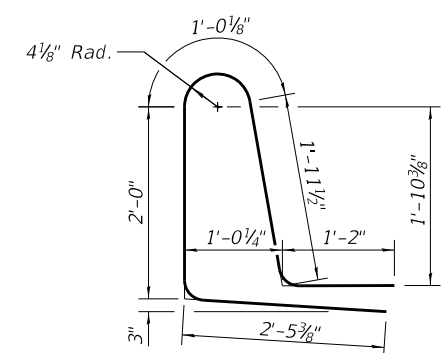
Order a3(E) and a4(E) bars full length.
Cut as shown and use remainder of bars in opposite end of deck.



BAR a2(E)



BAR d3(E)



BAR d4(E)

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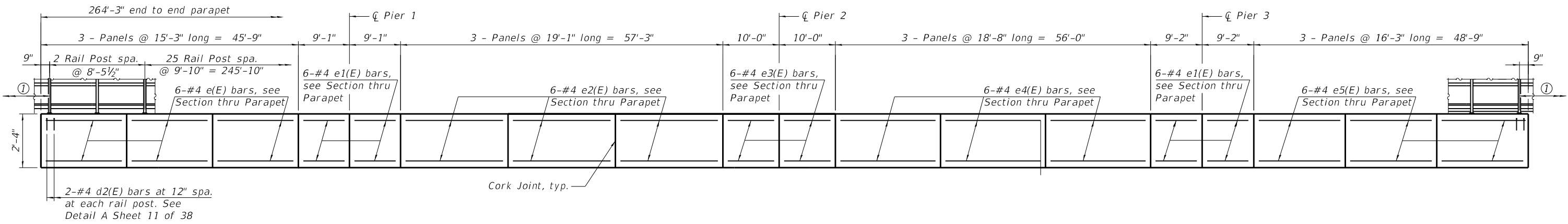
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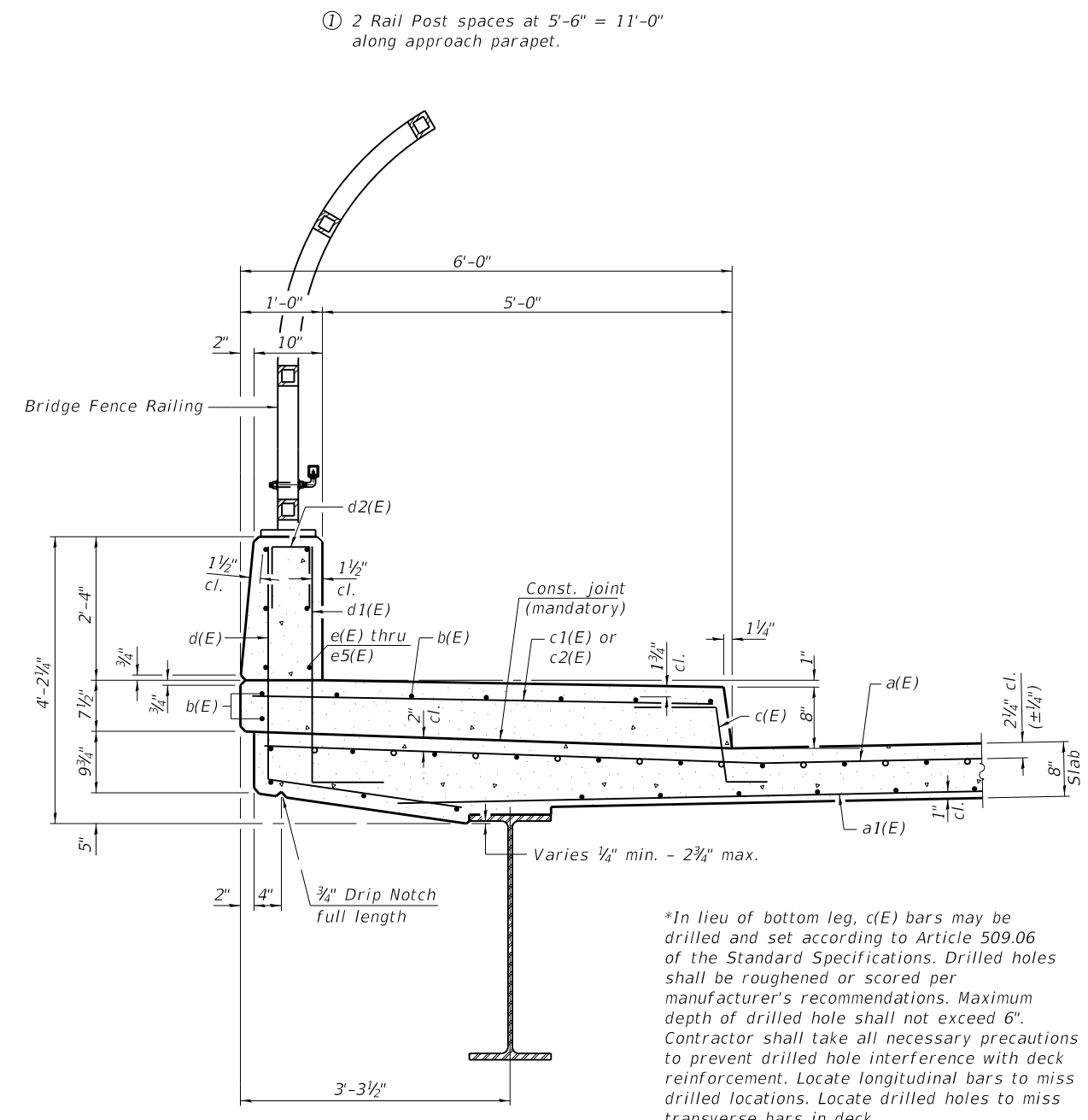
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 092-0204**

SHEET 11 OF 38 SHEETS

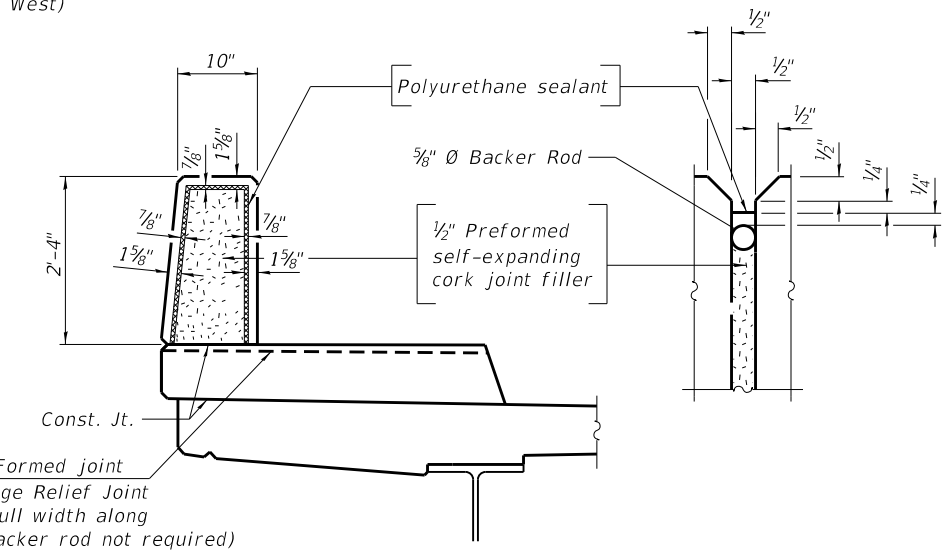
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	66
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF WEST PARAPET
(Looking West)

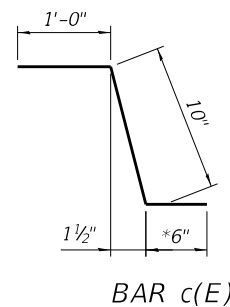


SECTION THRU SIDEWALK

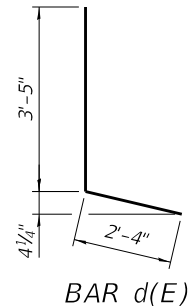


PARAPET JOINT DETAILS

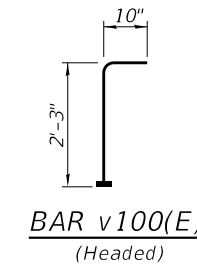
Notes:
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



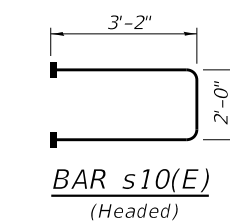
BAR c(E)



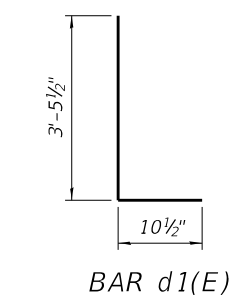
BAR d(E)



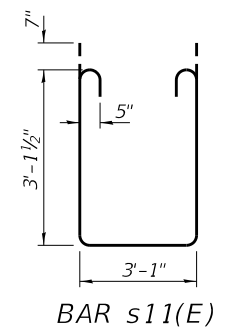
BAR v100(E)
(Headed)



BAR s10(E)
(Headed)



BAR d1(E)



BAR s11(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	494	#5	43'-2"	—
a1(E)	302	#5	41'-0"	—
a2(E)	563	#6	8'-4"	┌
a3(E)	77	#5	45'-10"	—
a4(E)	47	#5	43'-6"	—
a5(E)	8	#5	30'-6"	—
b(E)	530	#5	29'-7"	—
b1(E)	82	#6	42'-0"	—
b2(E)	451	#5	27'-3"	—
b3(E)	41	#6	45'-0"	—
c(E)	265	#5	2'-4"	└
c1(E)	260	#5	5'-7"	—
c2(E)	12	#5	7'-5"	—
d(E)	265	#4	5'-9"	┌
d1(E)	265	#6	4'-4"	┌
d2(E)	112	#4	2'-0"	┌
d3(E)	397	#5	6'-5"	┌
d4(E)	397	#5	8'-7"	┌
e(E)	36	#4	15'-0"	—
e1(E)	64	#4	8'-10"	—
e2(E)	36	#4	18'-10"	—
e3(E)	32	#4	9'-9"	—
e4(E)	36	#4	18'-5"	—
e5(E)	36	#4	16'-0"	—
e6(E)	8	#4	24'-0"	—
e7(E)	8	#4	29'-9"	—
e8(E)	8	#4	29'-1"	—
e9(E)	8	#4	25'-6"	—
m(E)	16	#6	30'-10"	—
m1(E)	30	#6	9'-4"	—
m2(E)	12	#6	3'-11"	—
s10(E)	82	#5	8'-4"	┌
s11(E)	82	#5	10'-6"	┌
v100(E)	88	#5	3'-1"	┌
Reinforcement Bars, Epoxy Coated		Lbs.		102,680
Concrete Superstructure		Cu. Yds.		445.6

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

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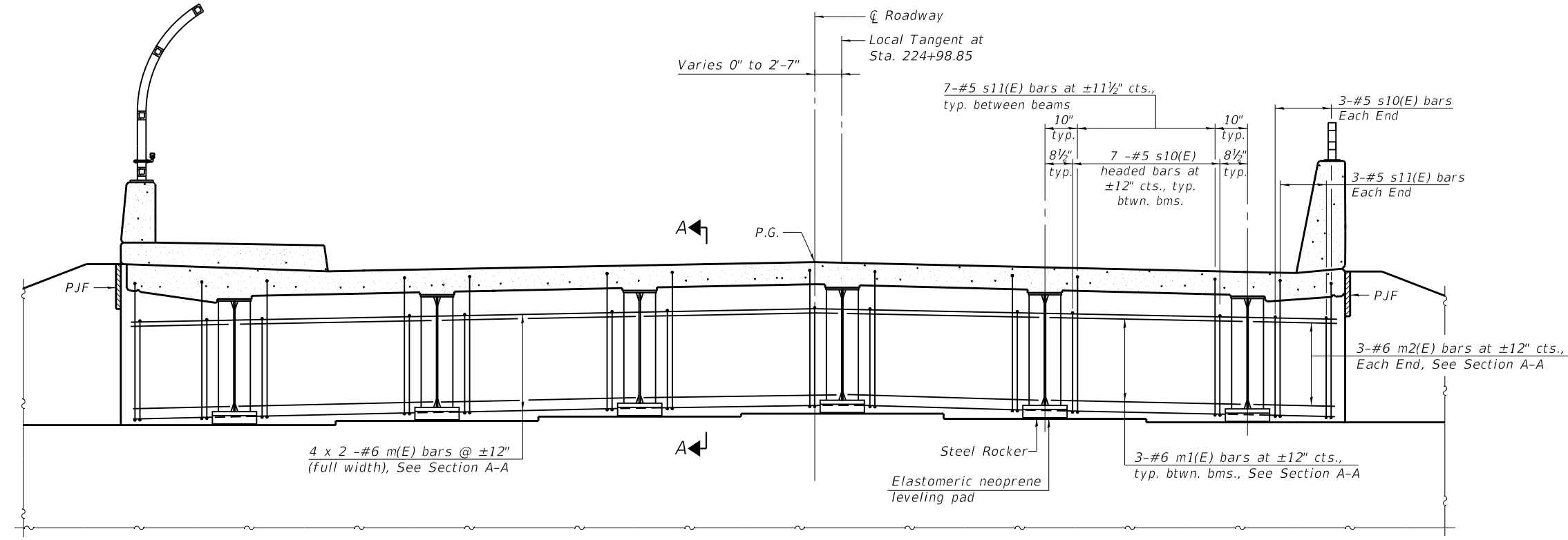
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SUPERSTRUCTURE DETAILS
STRUCTURE NO. 092-0204

SHEET 12 OF 38 SHEETS

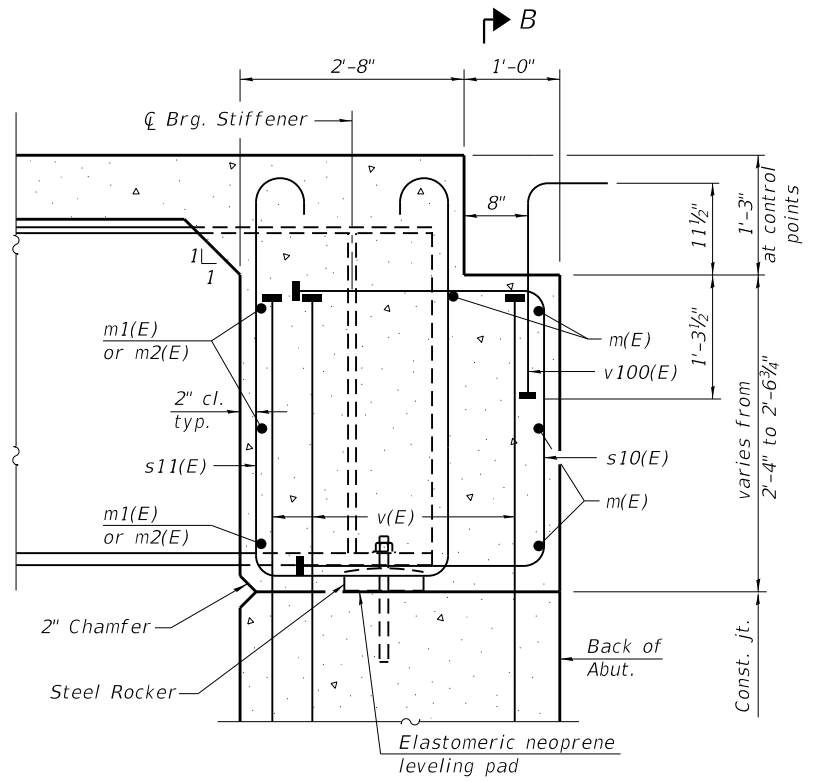
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	67
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 12 of 38 for superstructure details and Bill of Material.
 See Sheet 16 of 38 for P/JF details.
 The s10(E) and s11(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.
 Bars indicated thus 4 x 2 - #6 indicates 4 lines of bars with 2 lengths per line.

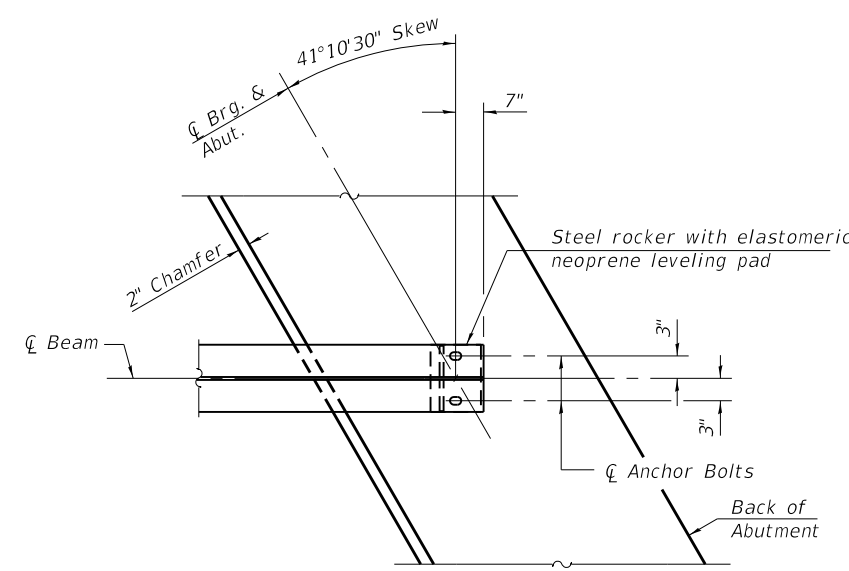


DIAPHRAGM ELEVATION AT NORTH ABUTMENT
 (South Abutment Similar)

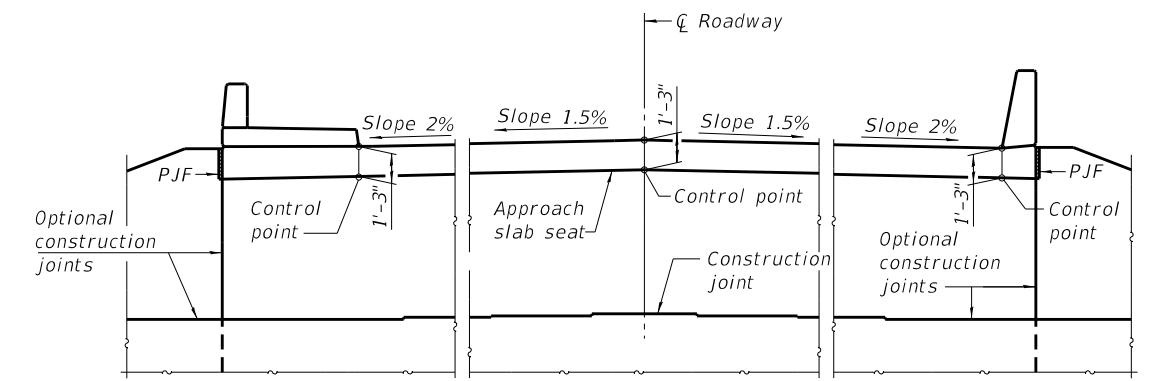
MINIMUM BAR LAP
 #6 bar = 4'-0"



SECTION A-A
 (at Rt. L's)



PLAN AT ABUTMENT
 (Showing bottom flange of beam)



VIEW B-B

MODEL: D:\p\11\11032404_CADD - DWG\4.4_Struct\0920204-90922-013 - Diaphragm_Details.dwg
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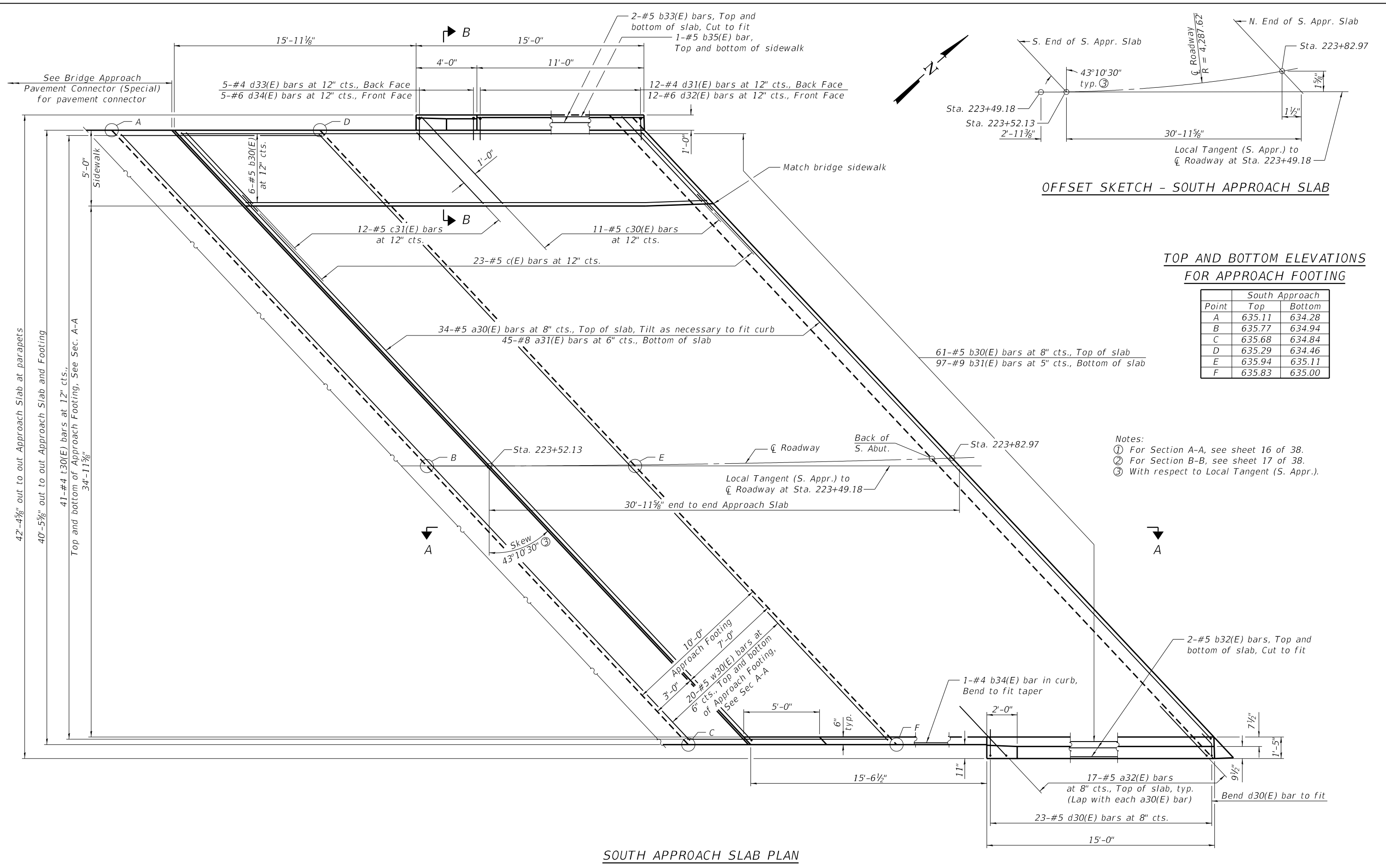
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 092-0204

SHEET 13 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	68
CONTRACT NO. 90922				

ILLINOIS FED. AID PROJECT



OFFSET SKETCH - SOUTH APPROACH SLAB

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach	
	Top	Bottom
A	635.11	634.28
B	635.77	634.94
C	635.68	634.84
D	635.29	634.46
E	635.94	635.11
F	635.83	635.00

- Notes:
 ① For Section A-A, see sheet 16 of 38.
 ② For Section B-B, see sheet 17 of 38.
 ③ With respect to Local Tangent (S. Appr.).

SOUTH APPROACH SLAB PLAN

FILE NAME: H:\PI\18052\Bridges\Final Plans\Microstation\0920204-90922-014_Bridge Approach Slab Details.dgn



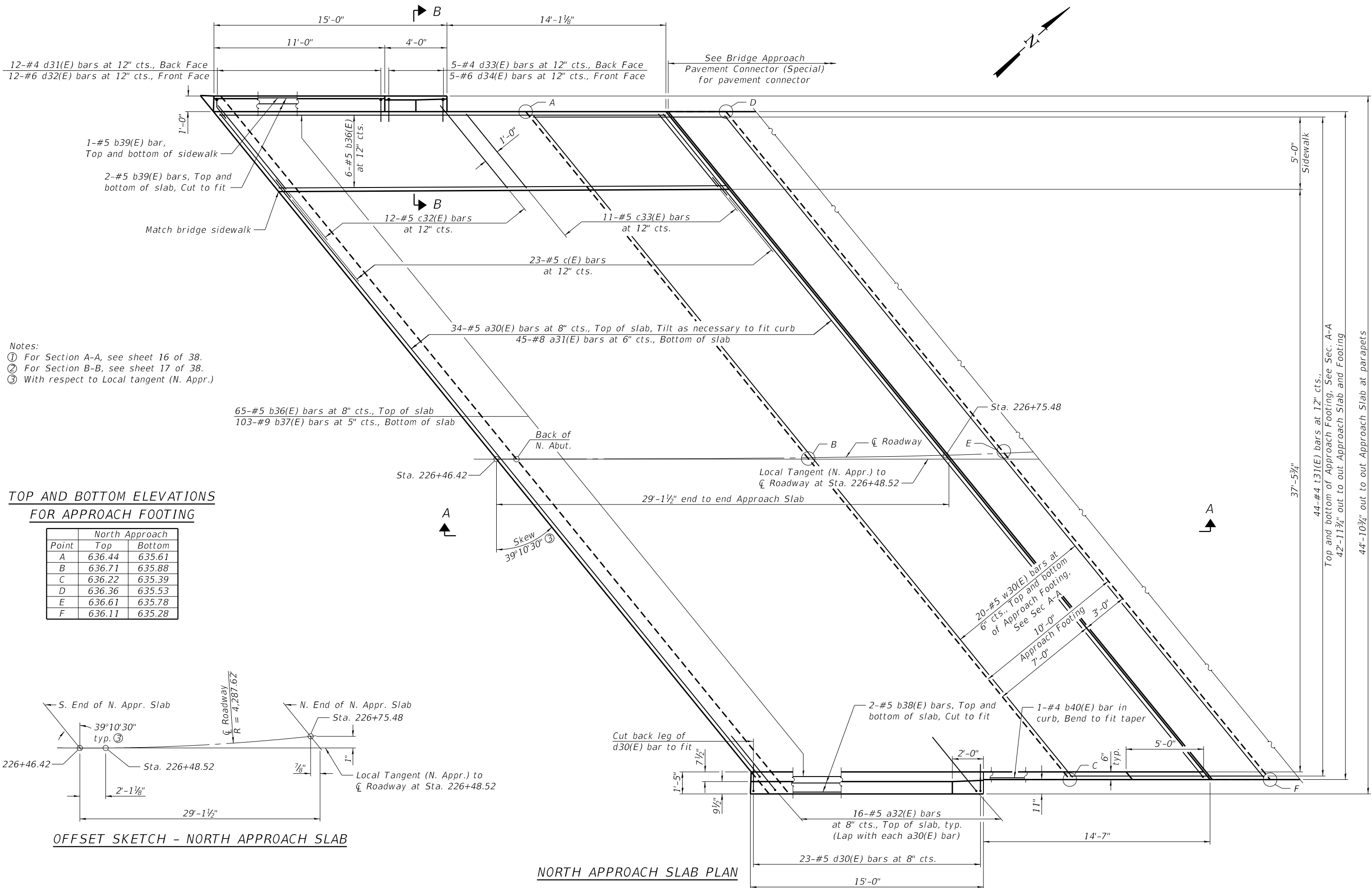
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 092-0204

SHEET 14 OF 38 SHEETS

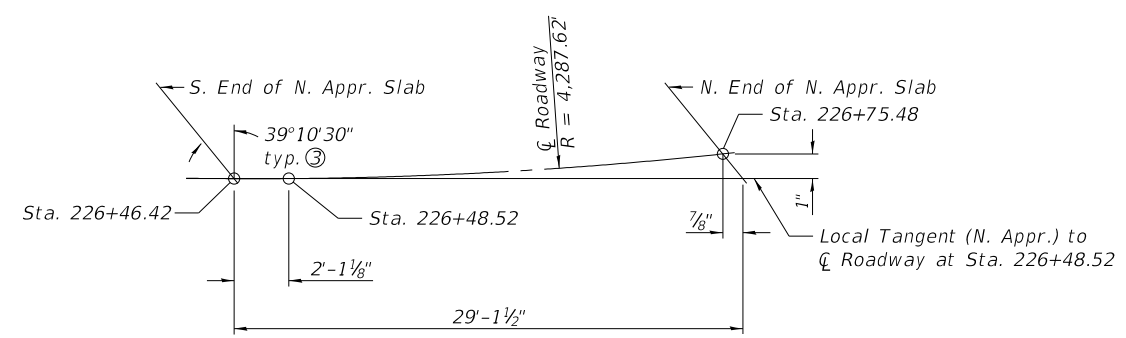
F.A.I. RTE. 74	SECTION (92-11HB-4)BR	COUNTY VERMILLION	TOTAL SHEETS 133	SHEET NO. 69
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	



- Notes:
- ① For Section A-A, see sheet 16 of 38.
 - ② For Section B-B, see sheet 17 of 38.
 - ③ With respect to Local tangent (N. Appr.)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

North Approach		
Point	Top	Bottom
A	636.44	635.61
B	636.71	635.88
C	636.22	635.39
D	636.36	635.53
E	636.61	635.78
F	636.11	635.28



OFFSET SKETCH - NORTH APPROACH SLAB

NORTH APPROACH SLAB PLAN

FILE NAME: H:\P\18052\Bridges\Final Plans\Microstation\0920204-90922-015_Bridge Approach Slab Details.dgn



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CHECKED - JAD	REVISIONS -	
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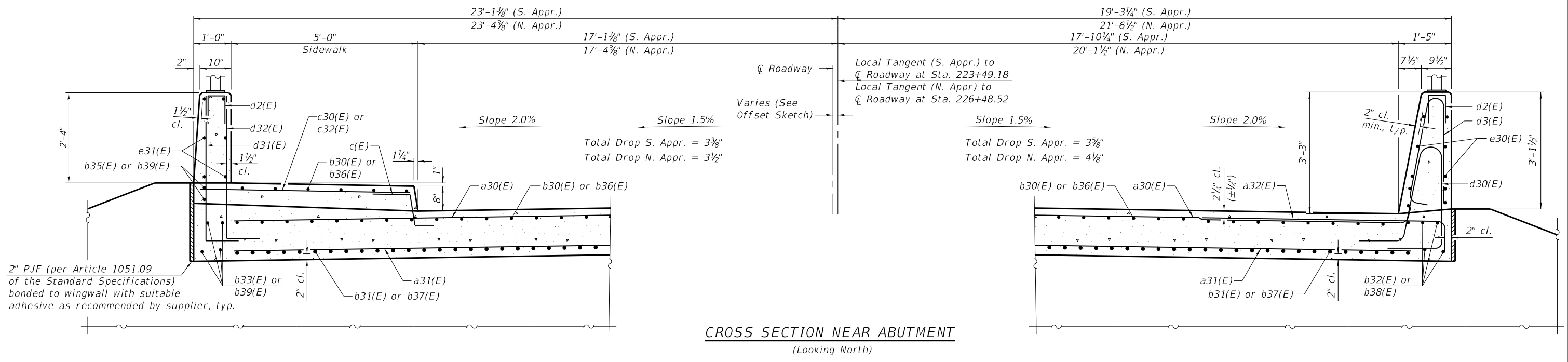
**STATE OF ILLINOIS
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**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 092-0204**

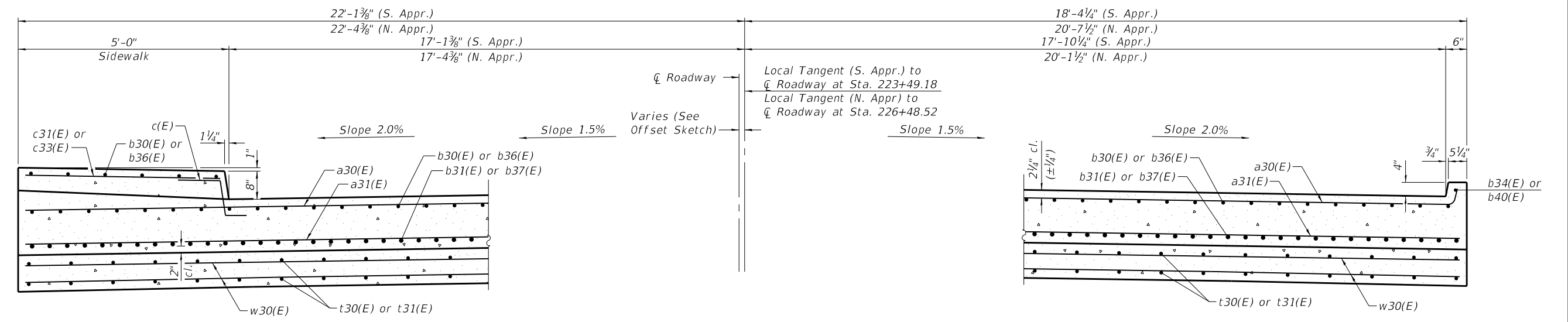
SHEET 15 OF 38 SHEETS

F.A.I. RTE. 74	SECTION (92-11HB-4)BR	COUNTY VERMILLION	TOTAL SHEETS 133	SHEET NO. 70
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

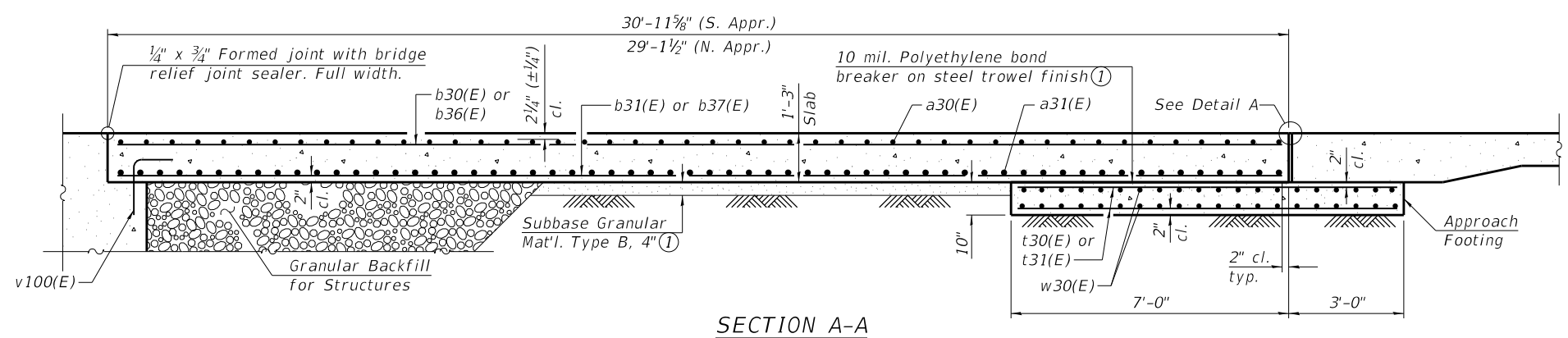
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CROSS SECTION NEAR ABUTMENT
(Looking North)



CROSS SECTION NEAR APPROACH FOOTING
(Looking North)



SECTION A-A

- Notes:
- ① Cost included with Concrete Superstructure (Approach Slab).
 - ② For Detail A, see sheet 17 of 38.
 - ③ For Granular Backfill for Structures and drainage treatment details, see sheet 31 of 38.
 - ④ For offset sketches, see sheets 14 and 15 of 38.



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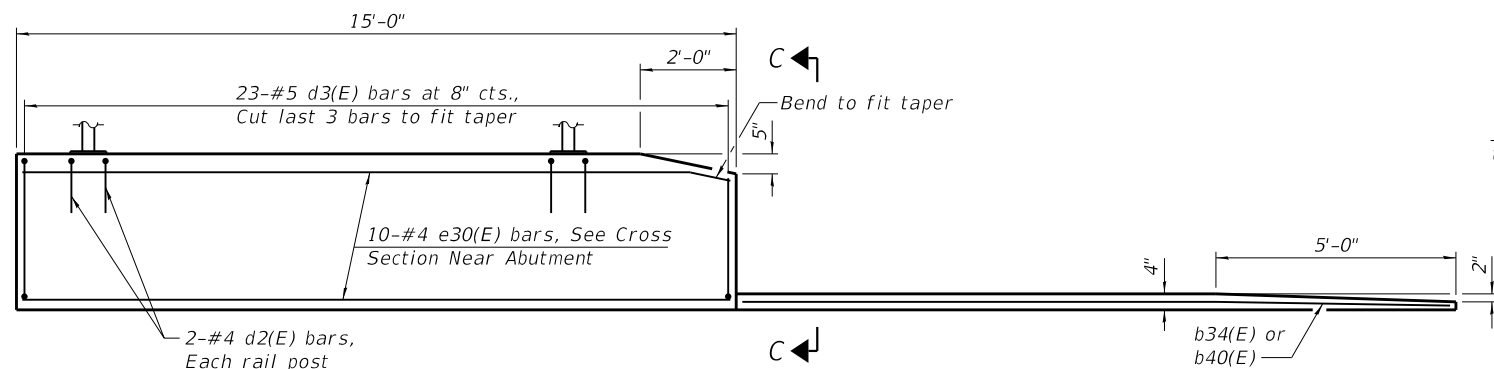
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BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 092-0204

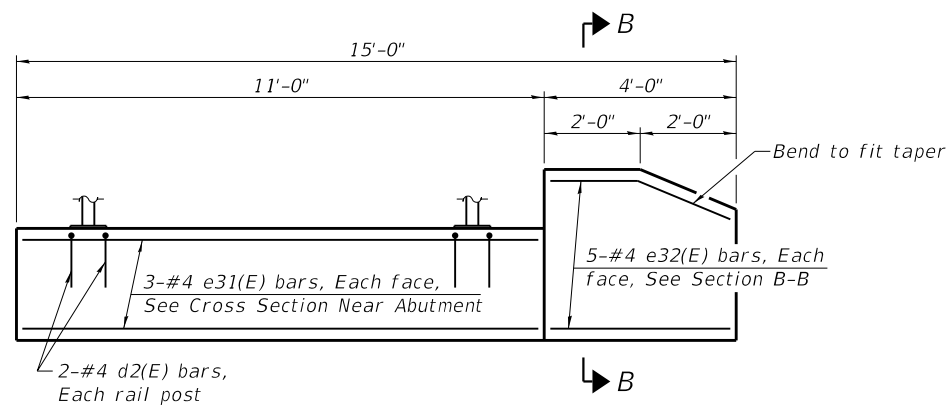
SHEET 16 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILLION	133	71
CONTRACT NO. 90922				

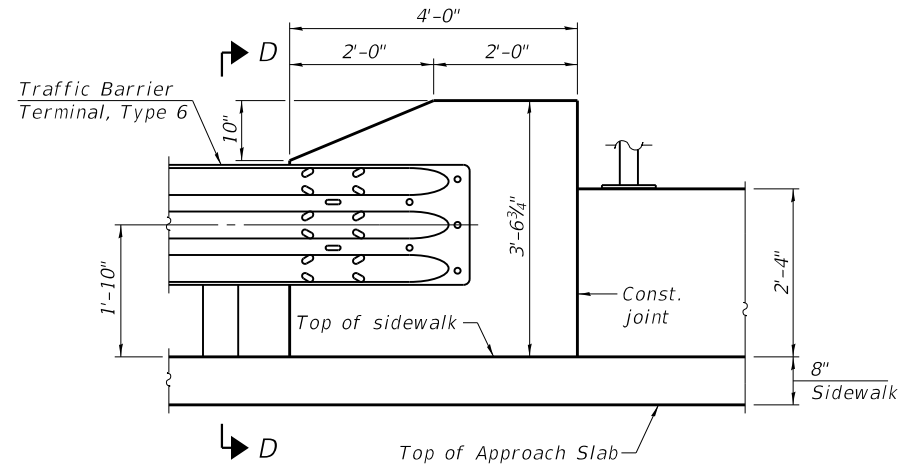
ILLINOIS FED. AID PROJECT



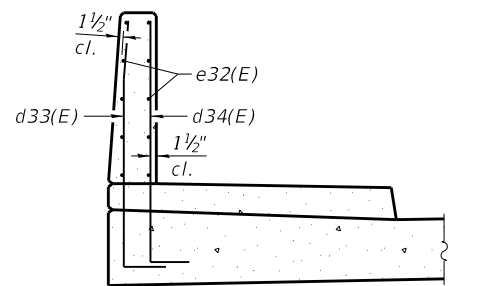
INSIDE ELEVATION OF EAST PARAPET AND CURB



INSIDE ELEVATION OF WEST PARAPET

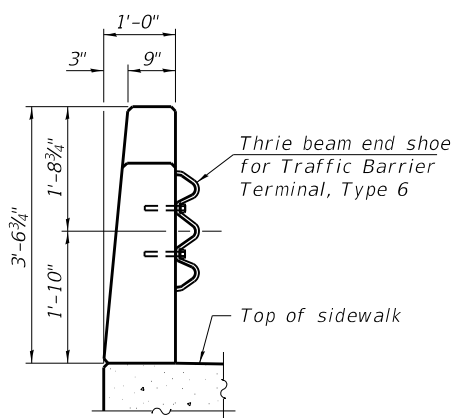


ELEVATION

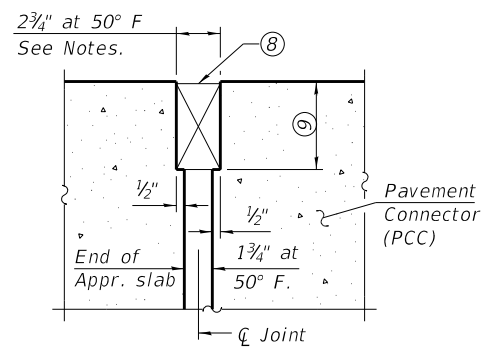


SECTION B-B

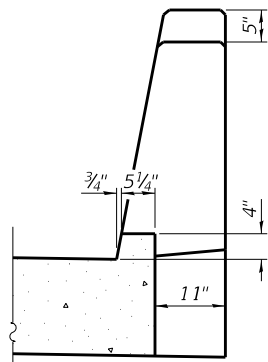
(For sidewalk and slab bars, see cross sections)



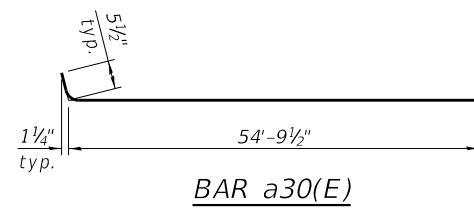
SECTION D-D



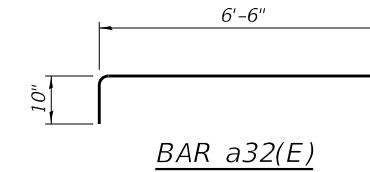
DETAIL A
(at Rt. L's)



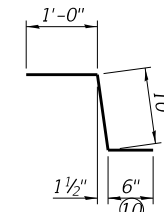
VIEW C-C



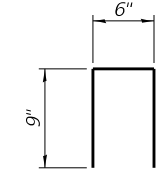
BAR a30(E)



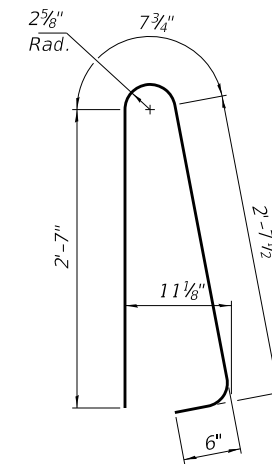
BAR a32(E)



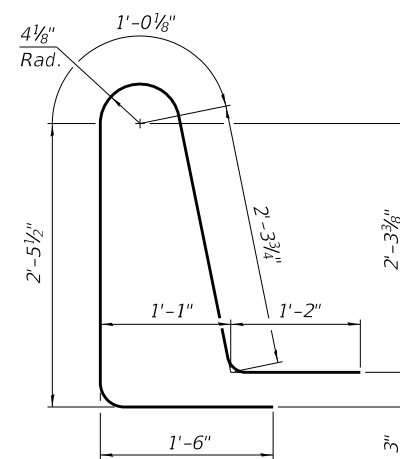
BAR c(E)



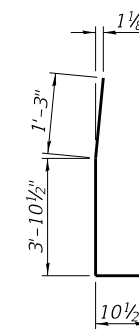
BAR d2(E)



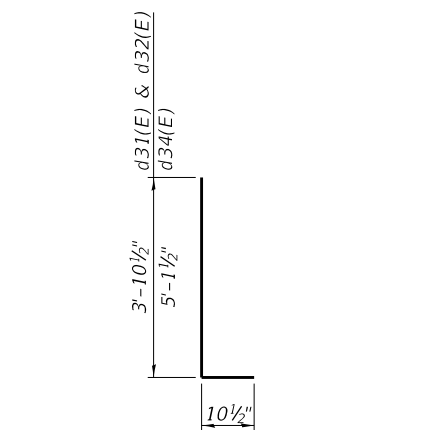
BAR d3(E)



BAR d30(E)



BAR d33(E)



BARS d31(E), d32(E) & d34(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	68	#5	55'-3"	
a31(E)	90	#8	55'-0"	
a32(E)	33	#5	7'-4"	
b30(E)	67	#5	30'-6"	
b31(E)	97	#9	30'-6"	
b32(E)	4	#5	15'-8"	
b33(E)	4	#5	14'-4"	
b34(E)	1	#4	15'-2"	
b35(E)	2	#5	13'-10"	
b36(E)	71	#5	28'-8"	
b37(E)	103	#9	28'-8"	
b38(E)	4	#5	13'-11"	
b39(E)	6	#5	15'-4"	
b40(E)	1	#4	13'-10"	
c(E)	46	#5	2'-4"	
c30(E)	11	#5	7'-7"	
c31(E)	12	#5	6'-3"	
c32(E)	12	#5	7'-4"	
c33(E)	11	#5	5'-11"	
d2(E)	16	#4	2'-0"	
d3(E)	46	#5	6'-5"	
d30(E)	46	#5	8'-6"	
d31(E)	24	#4	4'-9"	
d32(E)	24	#6	4'-9"	
d33(E)	10	#4	6'-0"	
d34(E)	10	#6	6'-0"	
e30(E)	20	#4	14'-8"	
e31(E)	12	#4	10'-8"	
e32(E)	20	#4	3'-8"	
t30(E)	82	#4	13'-3"	
t31(E)	88	#4	12'-6"	
w30(E)	80	#5	55'-0"	
Concrete Structures		Cu. Yd.	34.3	
Concrete Superstructure		Cu. Yd.	14.0	
Concrete Superstructure (Approach Slab)		Cu. Yd.	120.8	
Reinforcement Bars, Epoxy Coated		Pound	50,000	

Notes:

- The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
- Parapet and sidewalk concrete shall be paid for as Concrete Superstructure.
- Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for as Concrete Structures.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For rail post spacing, see sheets 11 and 12 of 38.
- Expansion joint. See Special Provision "Preformed Pavement Joint Seal". Recess 1/4" minimum. Run out to out of curb. Cost included with Concrete Superstructure (Approach Slab).
- Per manufacturer recommendations.
- In lieu of bottom leg, c(E) bars may be drilled and set according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of drilled hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement. Locate longitudinal bars to miss drilled hole locations. Locate drilled holes to miss transverse bars in deck.
- Calculated weight of Reinforcement Bars, Epoxy Coated
= 43,950 pounds (Superstructure)
= 6,050 pounds (Substructure)

FILE NAME: H:\P18052\Bridges\Final Plans\Microstation\0920204-90922-017_Bridge Approach Slab Details.dgn



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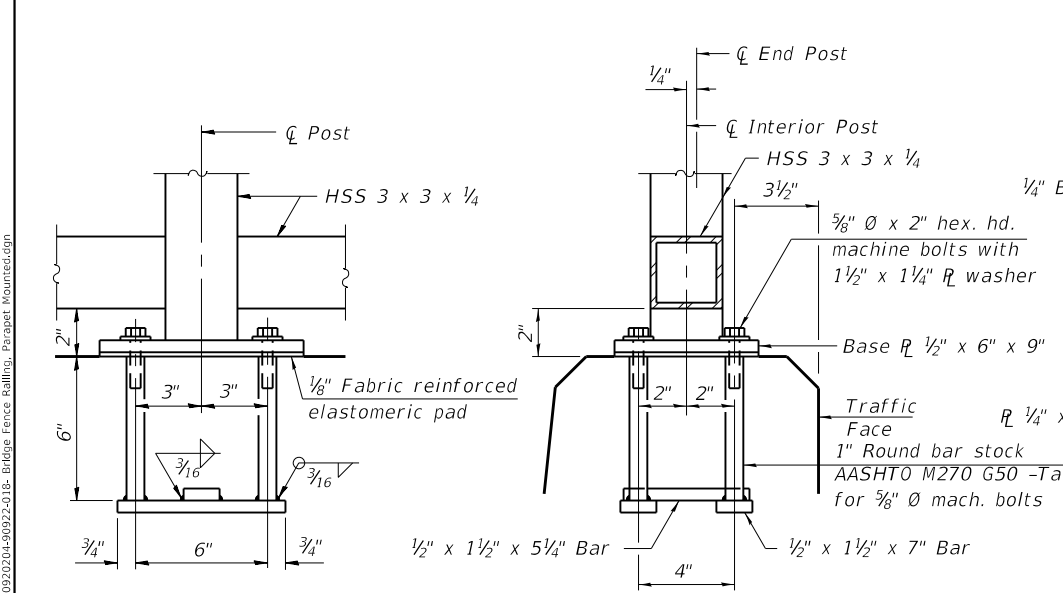
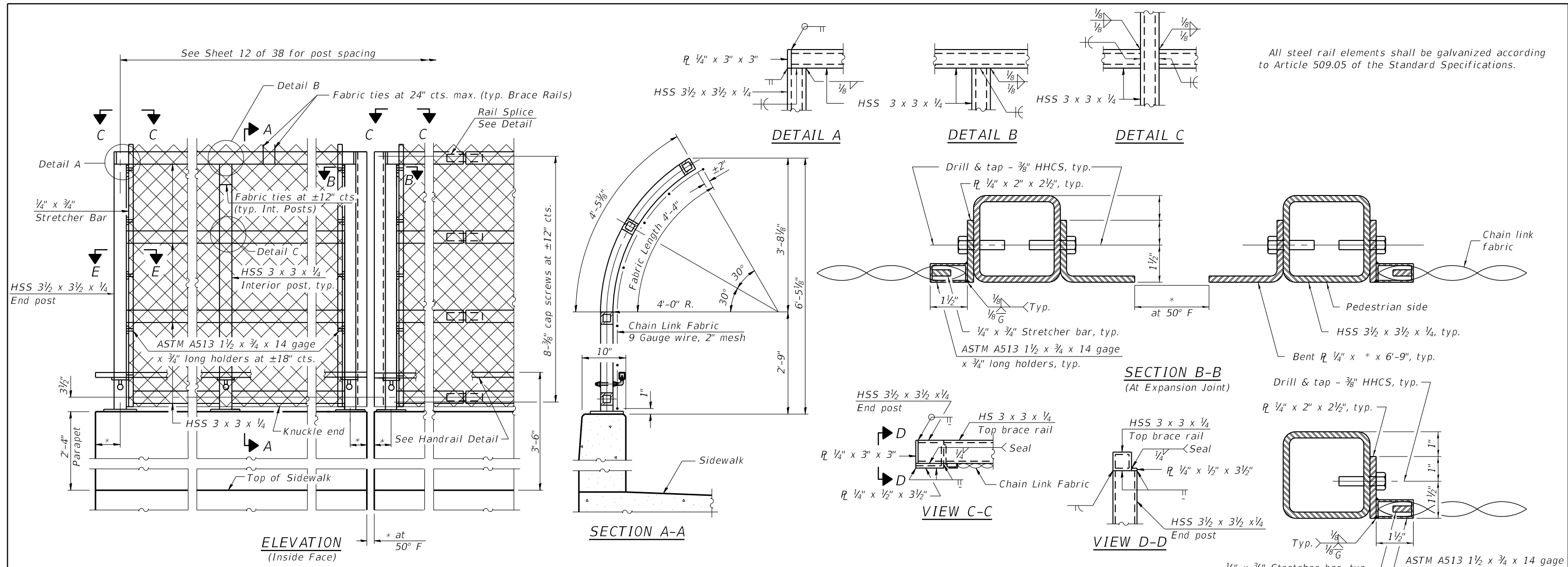
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 092-0204

SHEET 17 OF 38 SHEETS

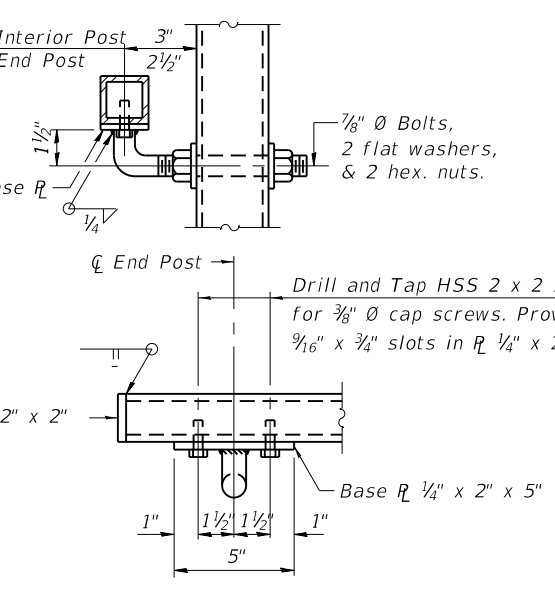
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILLION	133	72
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

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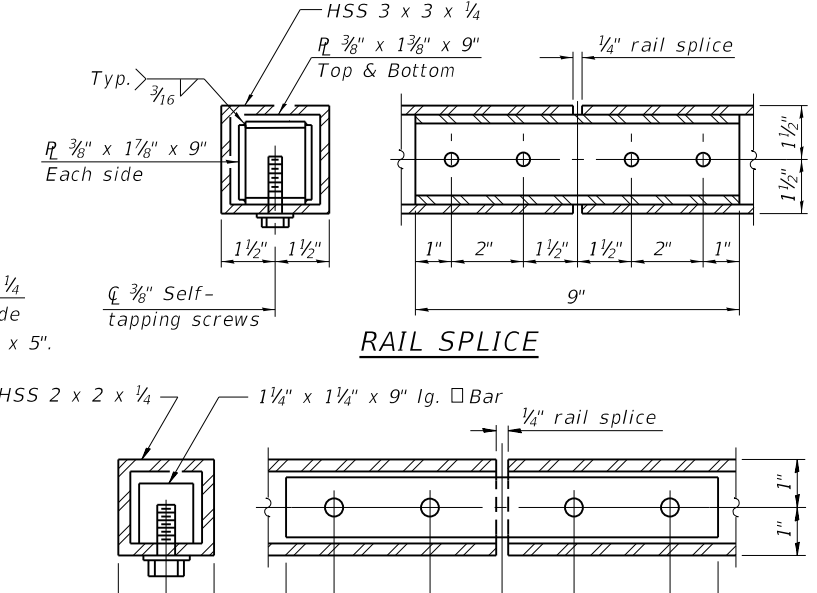
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



ANCHOR BOLT DETAILS
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

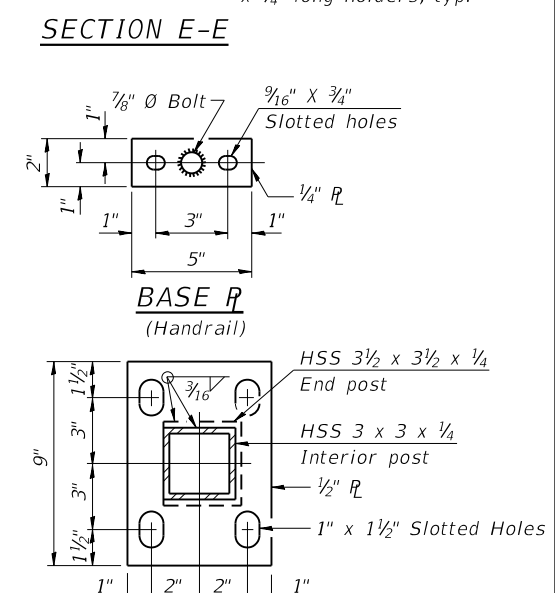


HANDRAIL DETAIL



RAIL SPLICE

HANDRAIL SPLICE



BASE PLATE (Handrail)

BASE PLATE

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	285

R-32

1-14-2019
 (10'-0" Maximum Post Spacing)

*Variable - See Plans

Note:
 CVN testing may be omitted for the railing.



USER NAME	DESIGNED	CHECKED	DRAWN	CHECKED
nparajuli	DRA	BWP	DRA	BWP

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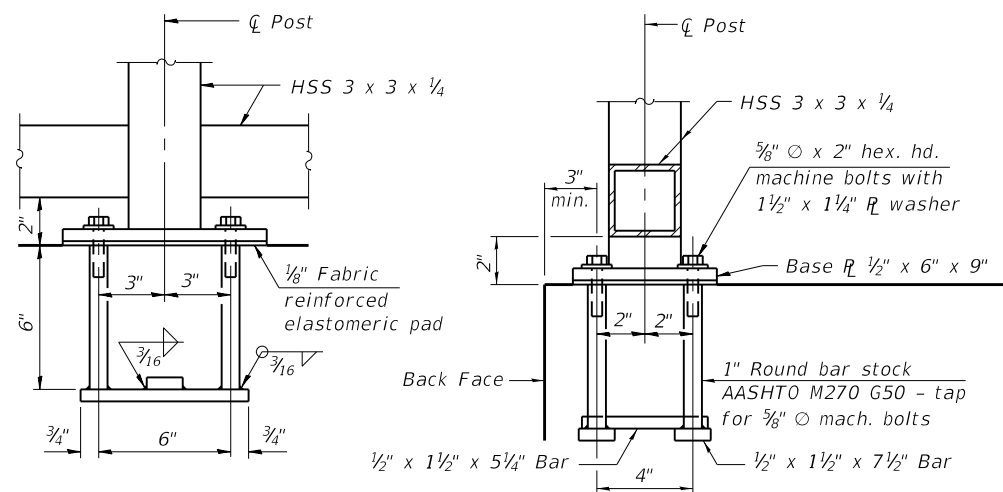
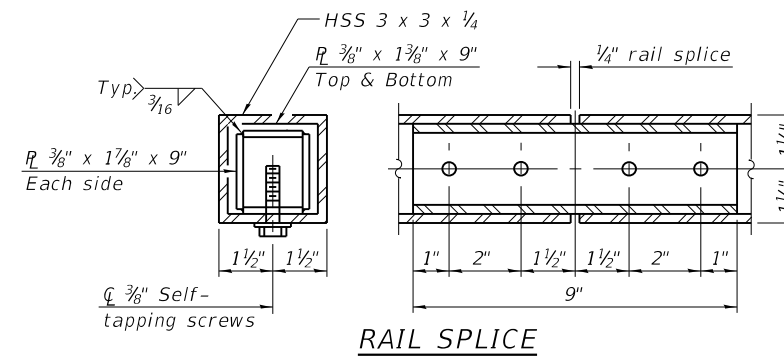
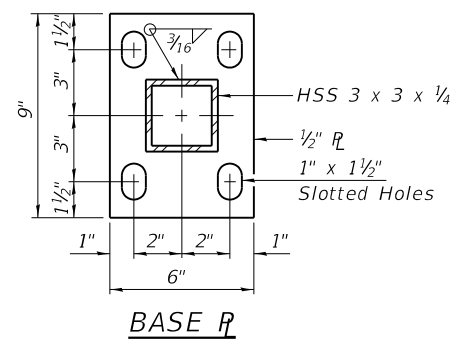
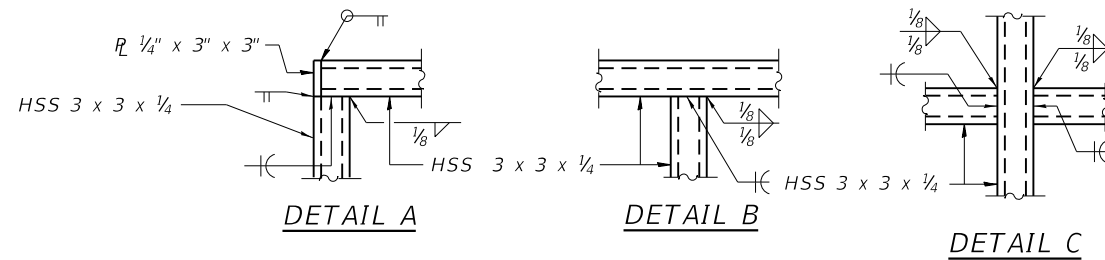
**BRIDGE FENCE RAILING, PARAPET MOUNTED
 STRUCTURE NO. 092-0204**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	73

SHEET 18 OF 38 SHEETS

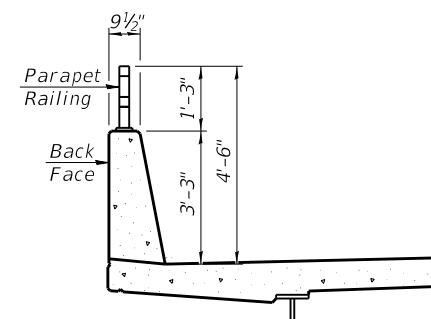
ILLINOIS FED. AID PROJECT

Notes:
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.

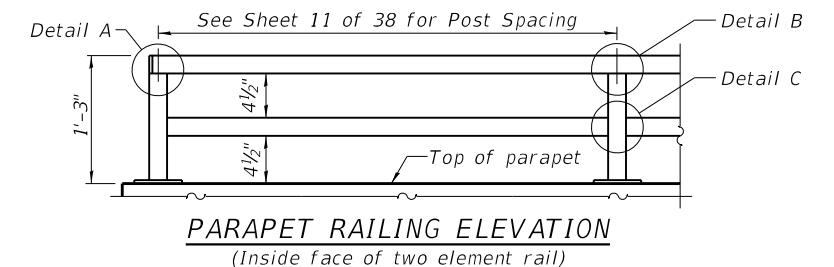


ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION THRU DECK



PARAPET RAILING ELEVATION
 (Inside face of two element rail)

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	289

(10'-0" Maximum Post Spacing)

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
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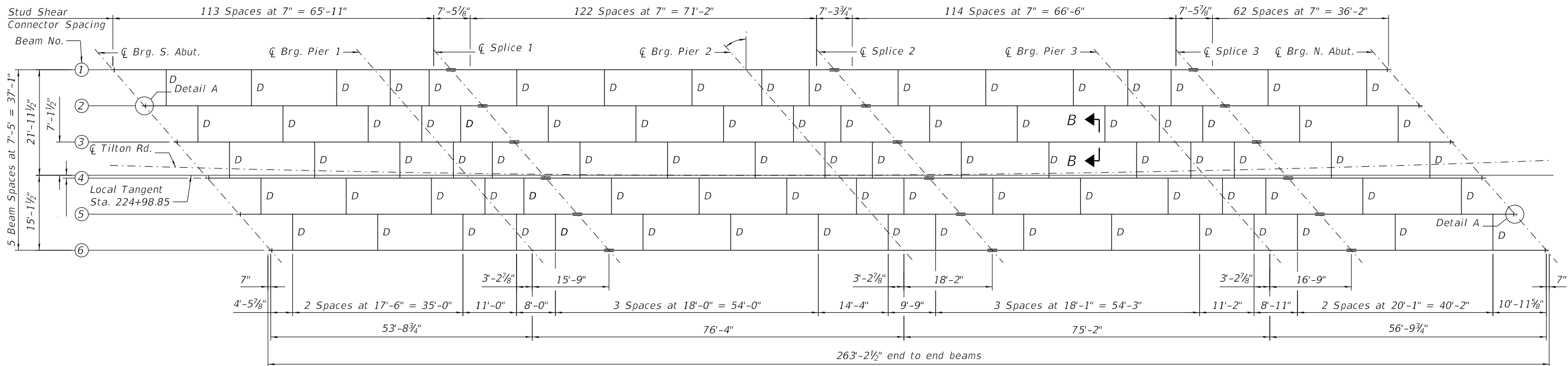
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DRAWN - DRA	REVISD -
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**PARAPET RAILING
 STRUCTURE NO. 092-0204**

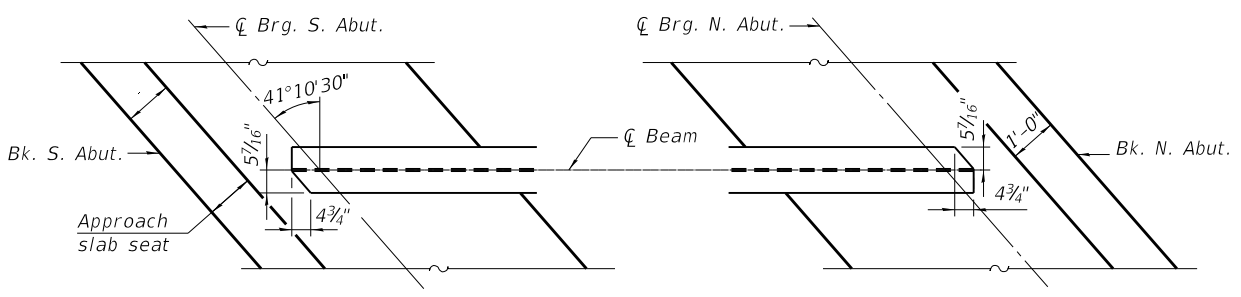
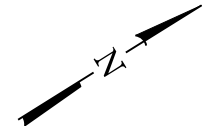
SHEET 19 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	74
				CONTRACT NO. 90922
				ILLINOIS FED. AID PROJECT

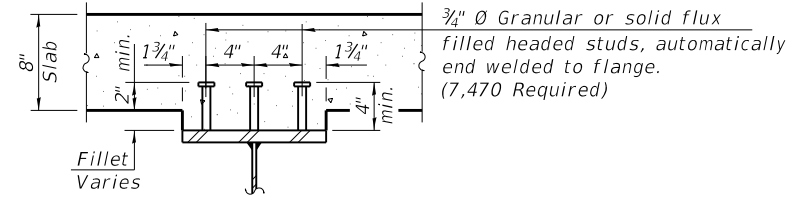


FRAMING PLAN

All beams are W33x169, AASHTO M270, Grade 50, CVN
 Note: "CVN" denotes Charpy-V-notch Impact energy requirement, Zone 2.

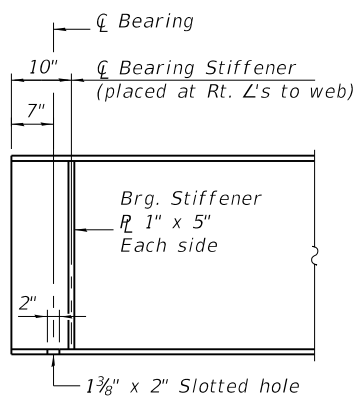


DETAIL A
(Top Flange Clip Detail)

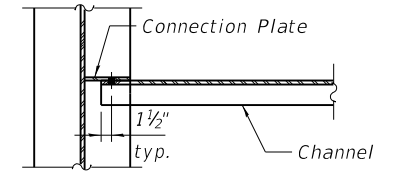


SECTION B-B

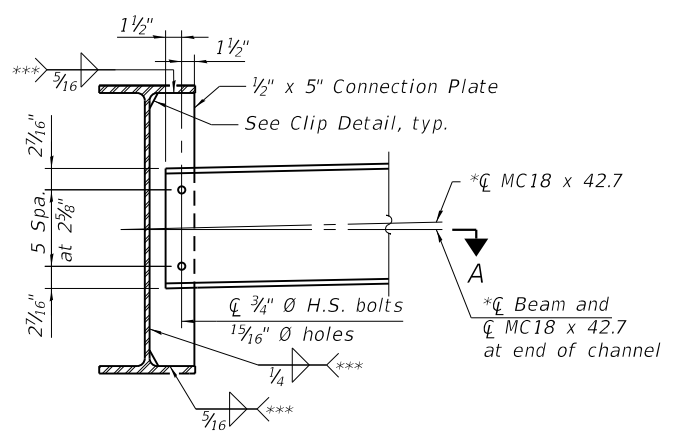
****TOP OF BEAM ELEVATION**



TYPICAL END OF BEAM ELEVATION

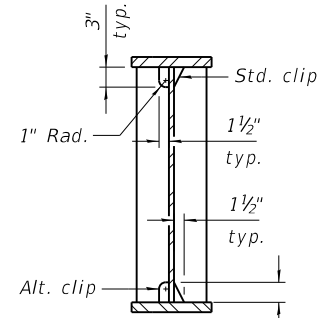


SECTION A-A

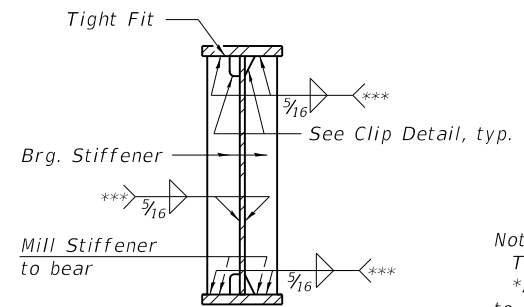


INTERIOR DIAPHRAGM D

*** Terminate 1/4" (±1/8") from the end of plate intersects.



CLIP DETAIL



SECTION AT ABUTMENT

*** Terminate 1/4" (±1/8") from the end of plate intersects.

	☐ Brg. S. ABUT.	☐ Brg. PIER 1	☐ SPLICE 1	☐ Brg. PIER 2	☐ SPLICE 2	☐ Brg. PIER 3	☐ SPLICE 3	☐ Brg. N. ABUT.
BEAM 1	636.18	636.61	636.72	637.03	637.11	637.13	637.14	637.12
BEAM 2	636.41	636.81	636.92	637.20	637.28	637.27	637.27	637.24
BEAM 3	636.60	636.98	637.09	637.34	637.41	637.38	637.38	637.33
BEAM 4	636.73	637.12	637.22	637.46	637.52	637.44	637.42	637.32
BEAM 5	636.69	637.06	637.15	637.36	637.42	637.31	637.28	637.17
BEAM 6	636.62	636.97	637.06	637.24	637.29	637.15	637.12	636.98

** For Fabrication Only

Note:
 Two hardened washers required for each set of oversized holes.
 *Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition.
 Alternate channels, if utilized, shall be provided at no additional cost to the Department.
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

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 DATE: 8/4/2020



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 IL DESIGN FIRM LICENSE NO: 184-001220

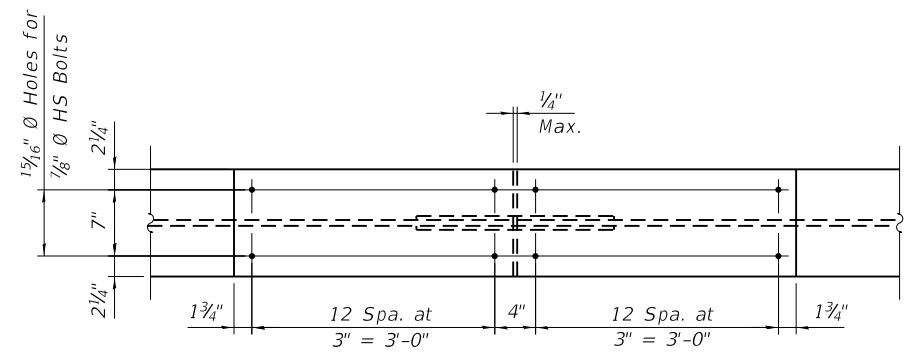
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**STATE OF ILLINOIS
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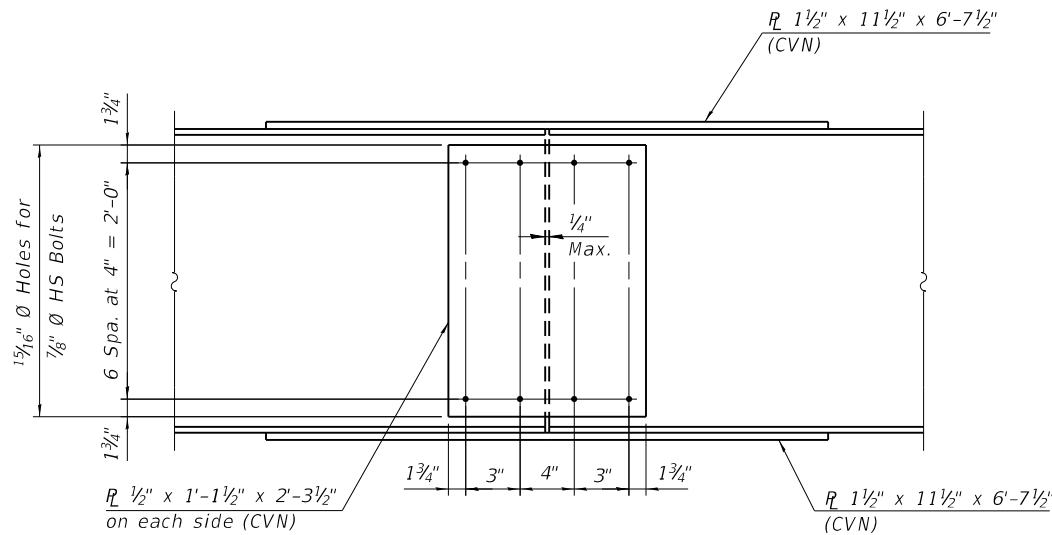
**STRUCTURAL STEEL FRAMING PLAN
 STRUCTURE NO. 092-0204**

SHEET 20 OF 38 SHEETS

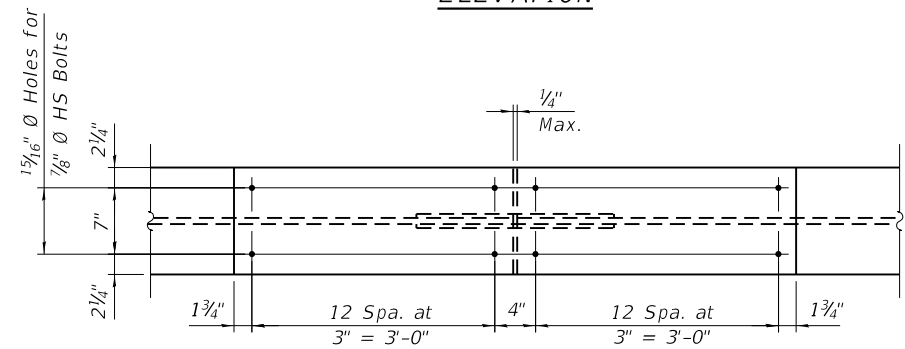
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	75
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



PLAN - TOP FLANGES



ELEVATION



PLAN - BOTTOM FLANGES

Note:
All web and flange splice plates shall be AASHTO M270, Grade 50.

INTERIOR GIRDER MOMENT TABLE							
	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.6 Sp. 4
Is	(in ⁴)	9290	9290	9290	9290	9290	9290
Ic(n)	(in ⁴)	24175	24175	24175	24175	24175	24175
Ic(3n)	(in ⁴)	18057	18057	18057	18057	18057	18057
Ic(cr)	(in ⁴)	-	12071	-	12071	-	12071
Ss	(in ³)	549	549	549	549	549	549
Sc(n)	(in ³)	785	785	785	785	785	785
Sc(3n)	(in ³)	716	716	716	716	716	716
Sc(cr)	(in ³)	-	616	-	616	-	616
DC1	(k/')	0.947	0.947	0.947	0.947	0.947	0.947
MDC1	(k)	169	406	255	475	233	410
DC2	(k/')	0.325	0.325	0.325	0.325	0.325	0.325
MDC2	(k)	57	140	85	163	78	141
DW	(k/')	0.340	0.340	0.340	0.340	0.340	0.340
MDW	(k)	53	130	79	152	72	131
LLDF		0.633	0.602	0.577	0.579	0.580	0.624
M _{l+IM}	(k)	607	644	678	730	671	644
Mu (Strength I)	(k)	1424	2005	1730	2303	1671	2025
Øf Mn	(k)	4113	-	4047	-	4065	-
fs DC1	(ksi)	3.69	8.87	5.57	10.38	5.09	8.96
fs DC2	(ksi)	0.95	2.35	1.42	2.73	1.31	2.36
fs DW	(ksi)	0.89	2.18	1.32	2.55	1.21	2.19
fs (l+IM)	(ksi)	9.28	9.84	10.36	11.15	10.25	9.95
fs (Service II)	(ksi)	17.59	26.19	21.79	30.16	20.93	26.45
0.95Rh Fyf	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50
fs (Total)(Strength I)	(ksi)	-	34.51	-	39.73	-	34.85
Øf Fn	(ksi)	-	50	-	50	-	50
Vf	(k)	-	30.7	-	29.5	-	30.8

GIRDER REACTION TABLE										
	S. Abut.		Pier 1		Pier 2		Pier 3		N. Abut.	
	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior
LLDF	0.773	0.609	0.773	0.609	0.773	0.609	0.773	0.609	0.773	0.609
OCF	-	1.196	-	-	-	-	-	-	-	1.196
R _{DC1}	(k) 19.0	19.9	68.8	72.1	74.1	77.7	69.4	72.8	20.8	21.8
R _{DC2}	(k) 4.7	4.7	18.0	18.0	19.4	19.4	18.2	18.2	5.2	5.2
R _{DW}	(k) 5.7	5.7	21.8	21.8	23.4	23.4	22.0	22.0	6.3	6.3
R _{LL}	(k) 56.7	53.5	92.8	73.1	95.8	75.5	93.1	73.3	57.8	54.5
R _{IM}	(k) 14.5	13.7	17.8	14.0	17.7	14.0	17.8	14.0	14.7	13.9
R _{Total}	(k) 100.6	97.5	219.2	199.0	230.4	210.0	220.5	200.3	104.8	101.7

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{l+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).

1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{l+IM}

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (l+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

M_{l+IM} / Sc(n) or M_{l+IM} / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).

fsDC1 + fsDC2 + fsDW + 1.3 fs(l+IM)

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(l+IM)

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
M_l and R_l include the effects of centrifugal force and superelevation.

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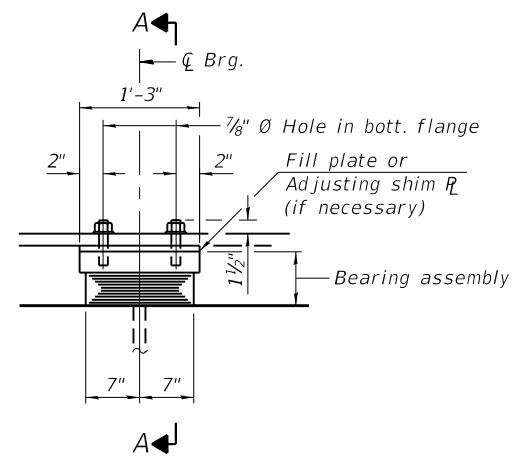
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STATE OF ILLINOIS
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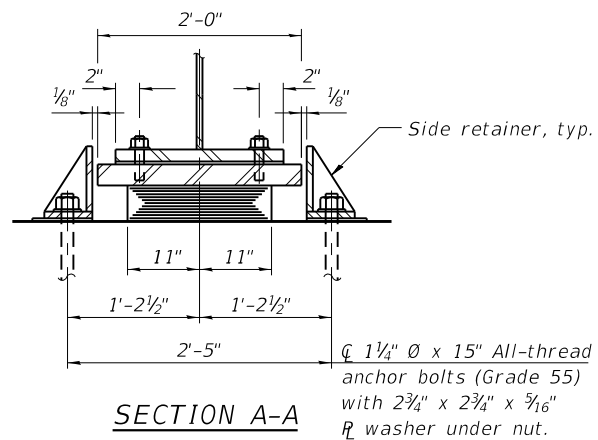
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 092-0204

SHEET 21 OF 38 SHEETS

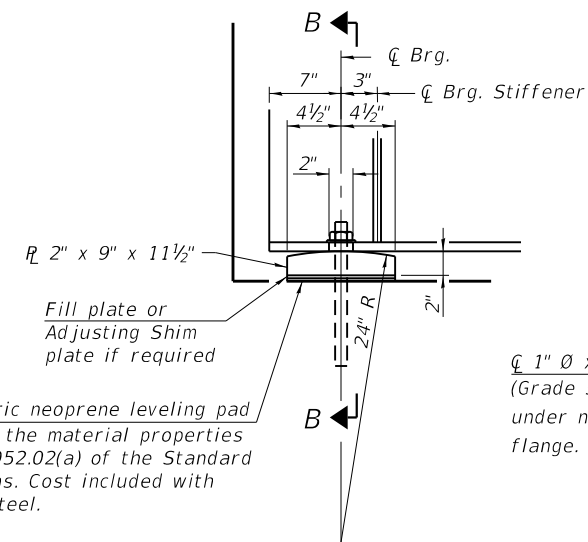
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74	(92-11HB-4)BR	VERMILION	133	76
CONTRACT NO. 90922				
ILLINOIS		FED. AID PROJECT		



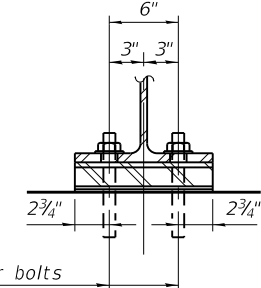
ELEVATION AT PIER



SECTION A-A

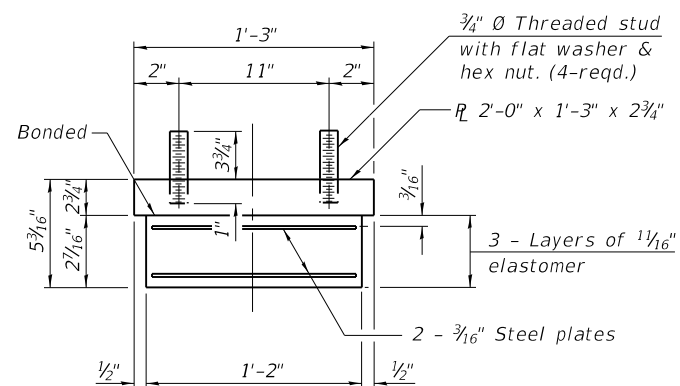


ELEVATION AT ABUTMENT



SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

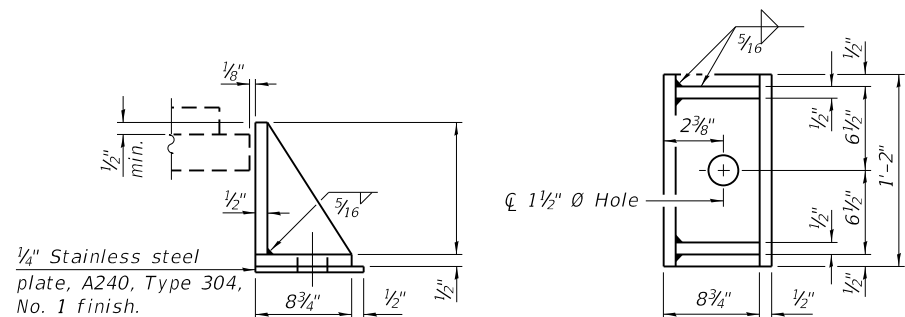


BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.

Notes:
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270, Grade 50.
Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims, and placed as shown on bearing details.
All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type 1.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

FIXED BEARING



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

FILL PLATE THICKNESS

	Location	Thickness
Beam 5	S. Abut.	3/4"
Beam 4	Pier 3	3/8"

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type 1	Each	18
Anchor Bolts, 1 1/4"	Each	36
Anchor Bolts, 1"	Each	24

MODEL: D:\dwt\11\1103\4004_CADD - DWG\4-4_Struct\0920204-90922-022 - Bearing Detail.dwg
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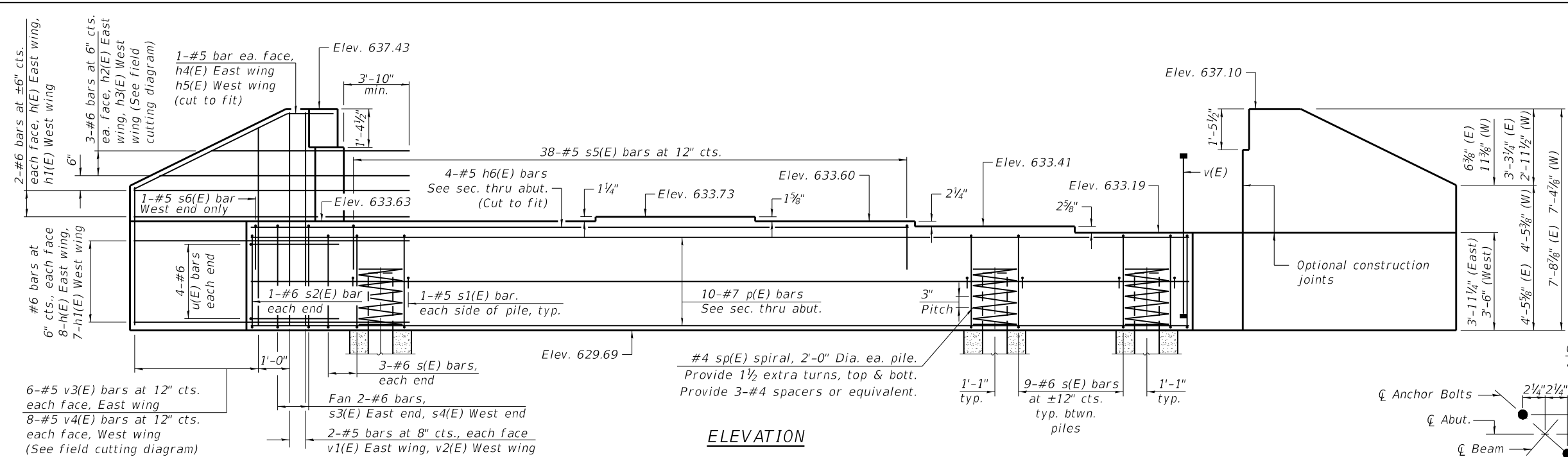
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STATE OF ILLINOIS
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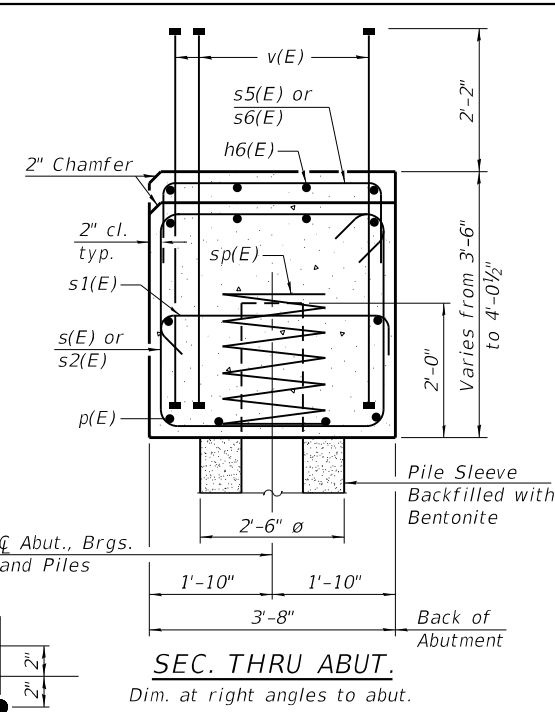
BEARING DETAILS
STRUCTURE NO. 092-0204

SHEET 22 OF 38 SHEETS

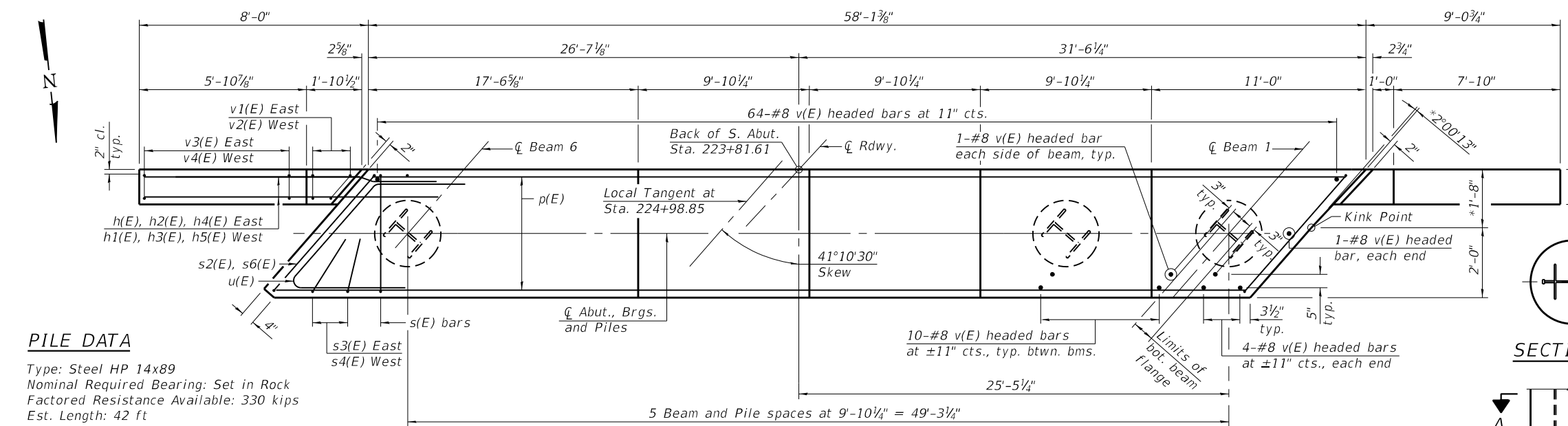
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ILLINOIS FED. AID PROJECT				



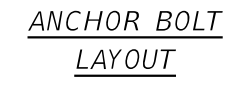
ELEVATION



SEC. THRU ABUT.
Dim. at right angles to abut.



PLAN



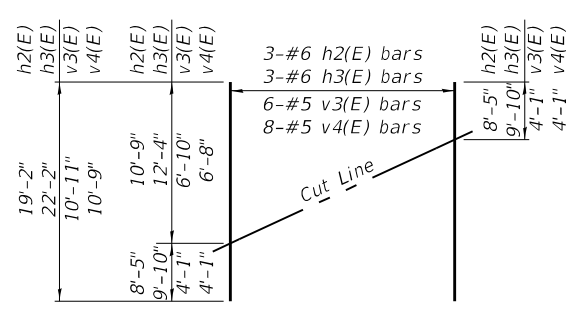
ANCHOR BOLT LAYOUT

PILE DATA
Type: Steel HP 14x89
Nominal Required Bearing: Set in Rock
Factored Resistance Available: 330 kips
Est. Length: 42 ft
No. Production Piles: 6
Estimated Top of Rock Socket: Elev. 611.6
Rock Socket Depth: 22'-0" min.
Rock Socket Diameter: 2'-0"

BILL OF MATERIAL

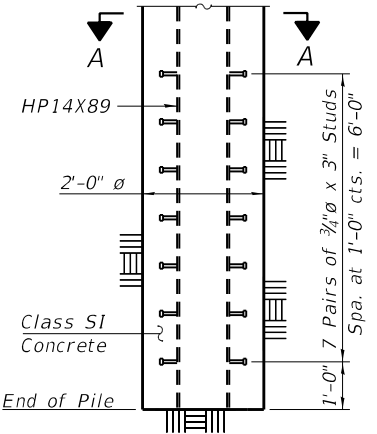
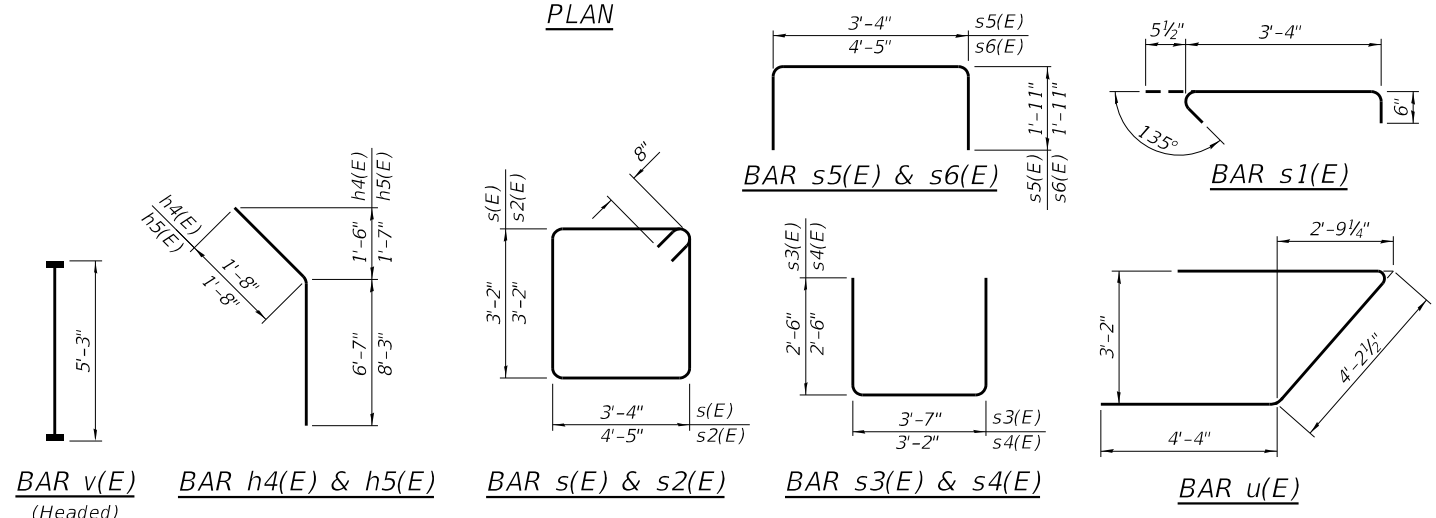
Bar	No.	Size	Length	Shape
h(E)	20	#6	11'-8"	
h1(E)	18	#6	13'-8"	
h2(E)	3	#6	19'-2"	
h3(E)	3	#6	22'-2"	
h4(E)	2	#5	8'-3"	
h5(E)	2	#5	9'-11"	
h6(E)	4	#5	39'-10"	
p(E)	10	#7	57'-7"	
s(E)	51	#6	14'-4"	
s1(E)	12	#5	4'-4"	
s2(E)	2	#6	16'-6"	
s3(E)	2	#6	8'-7"	
s4(E)	2	#6	8'-2"	
s5(E)	38	#5	7'-2"	
s6(E)	1	#5	8'-3"	
sp(E)	6	#4	2'-0"	WWW
u(E)	8	#6	12'-11"	
v(E)	136	#8	5'-3"	
v1(E)	4	#5	7'-4"	
v2(E)	4	#5	7'-0"	
v3(E)	6	#5	10'-11"	
v4(E)	8	#5	10'-9"	
Concrete Structures		Cu. Yd.	34.4	
Reinforcement Bars, Epoxy Coated		Pound	6,390	
Furnishing Steel Piles HP 14x89		Foot	252	
Setting Piles in Rock		Each	6	
Stud Shear Connectors		Each	84	

** Length is height of spiral.



FIELD CUTTING DIAGRAM

Order h2(E), h3(E), v3(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



SECTION THRU PILE SET IN ROCK

Studs shall be granular or solid flux filled, automatically end welded. Each flange, each pile.

Notes:
Pour steps monolithically with cap.
Space reinforcing in cap to miss anchor bolts.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles, see sheet 32 of 38.
Pile sleeve shall be corrugated metal or HDPE.
Cost of pile sleeve and bentonite included with Furnishing Steel Piles.



USER NAME = vteigler	DESIGNED - TIJZ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - KAS	REVISED -
PLOT DATE = 7/30/2020	DRAWN - DMM	REVISED -
	CHECKED - TIJZ	REVISED -

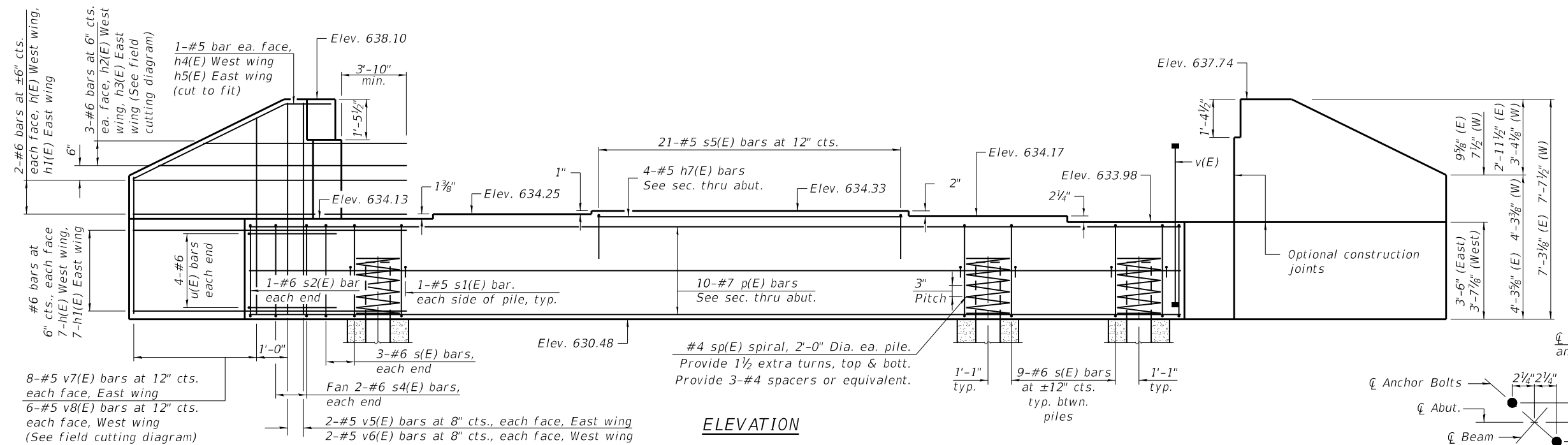
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT
STRUCTURE NO. 092-0204**

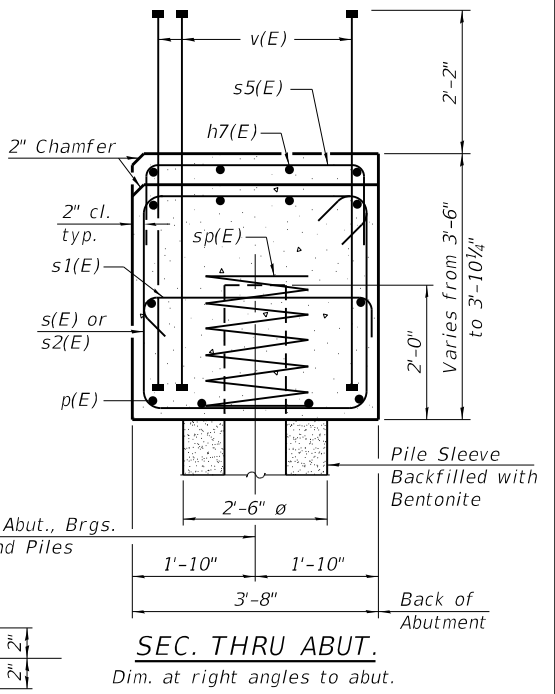
SHEET 23 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-4	VERMILION	133	78
CONTRACT NO. 90922				

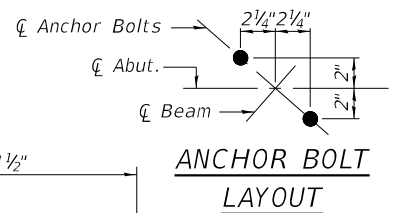
ILLINOIS FED. AID PROJECT



ELEVATION



SEC. THRU ABUT.
Dim. at right angles to abut.

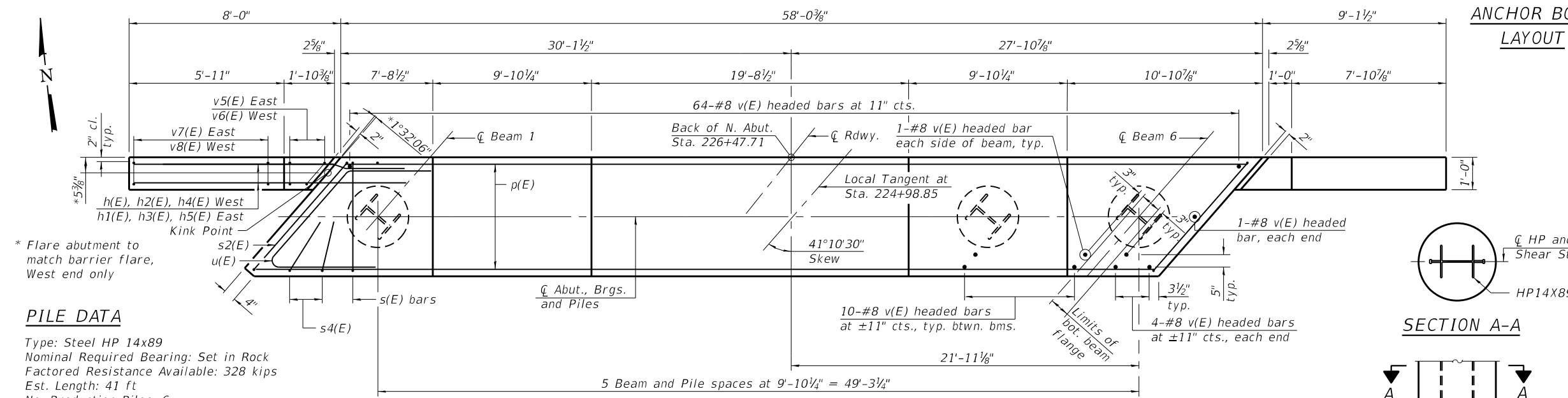


ANCHOR BOLT LAYOUT

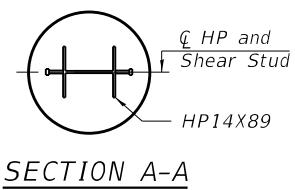
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#6	11'-8"	—
h1(E)	18	#6	13'-8"	—
h2(E)	3	#6	19'-2"	—
h3(E)	3	#6	22'-2"	—
h4(E)	2	#5	8'-3"	—
h5(E)	2	#5	9'-11"	—
h7(E)	4	#5	19'-4"	—
p(E)	10	#7	57'-7"	—
s(E)	51	#6	14'-4"	—
s1(E)	12	#5	4'-4"	—
s2(E)	2	#6	16'-6"	—
s4(E)	4	#6	8'-2"	—
s5(E)	21	#5	7'-2"	—
sp(E)	6	#4	2'-0"	—
u(E)	8	#6	12'-11"	—
v(E)	136	#8	5'-3"	—
v5(E)	4	#5	6'-10"	—
v6(E)	4	#5	7'-3"	—
v7(E)	8	#5	10'-5"	—
v8(E)	6	#5	10'-7"	—
Concrete Structures		Cu. Yd.	33.3	
Reinforcement Bars, Epoxy Coated		Pound	6,130	
Furnishing Steel Piles HP 14x89		Foot	246	
Setting Piles in Rock		Each	6	
Stud Shear Connectors		Each	84	

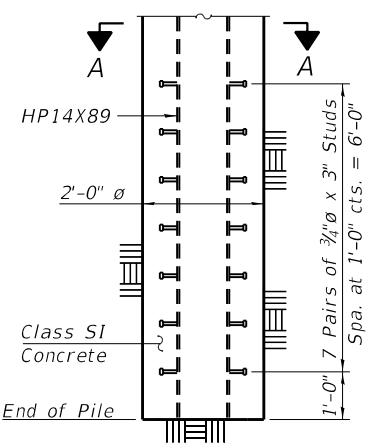
** Length is height of spiral.



PLAN



SECTION A-A



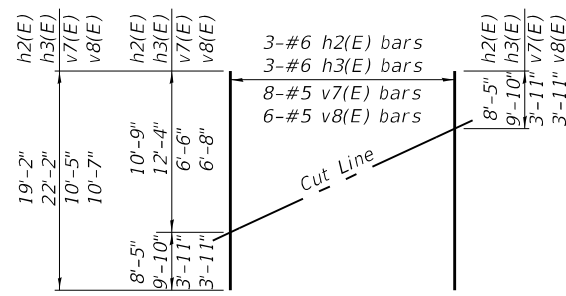
SECTION THRU PILE SET IN ROCK

Studs shall be granular or solid flux filled, automatically end welded. Each flange, each pile.

* Flare abutment to match barrier flare, West end only

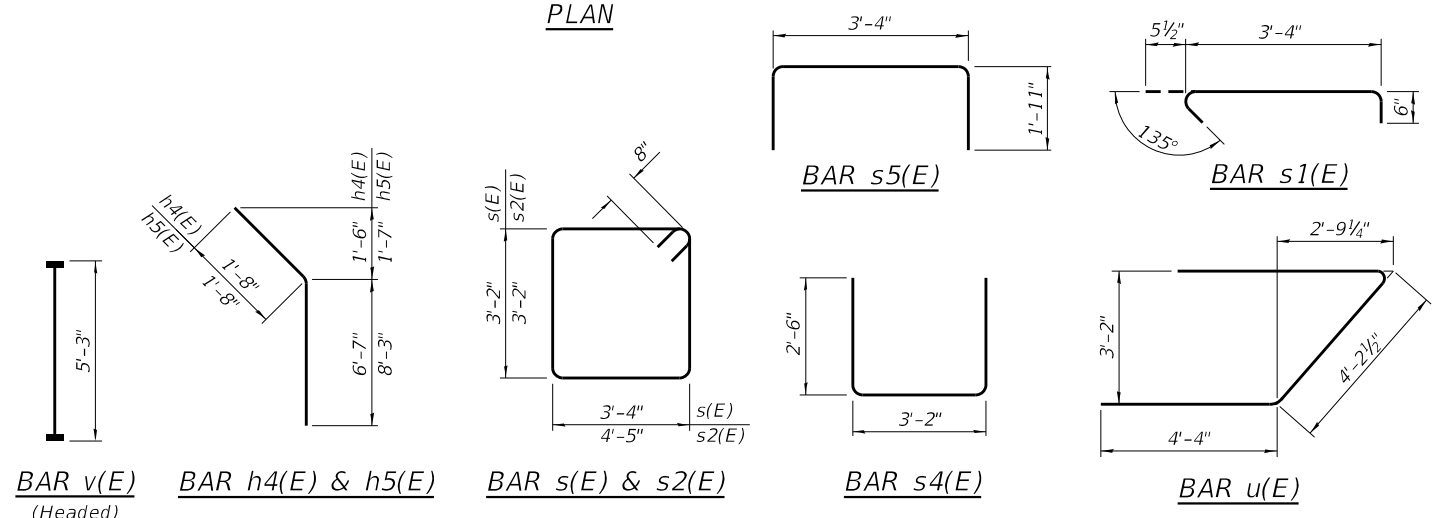
PILE DATA

Type: Steel HP 14x89
Nominal Required Bearing: Set in Rock
Factored Resistance Available: 328 kips
Est. Length: 41 ft
No. Production Piles: 6
Estimated Top of Rock Socket: Elev. 609.8
Rock Socket Depth: 19'-0" min.
Rock Socket Diameter: 2'-0"

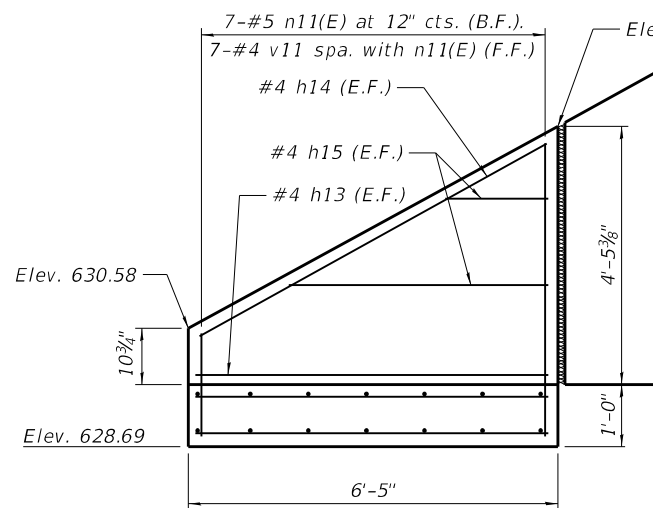


FIELD CUTTING DIAGRAM

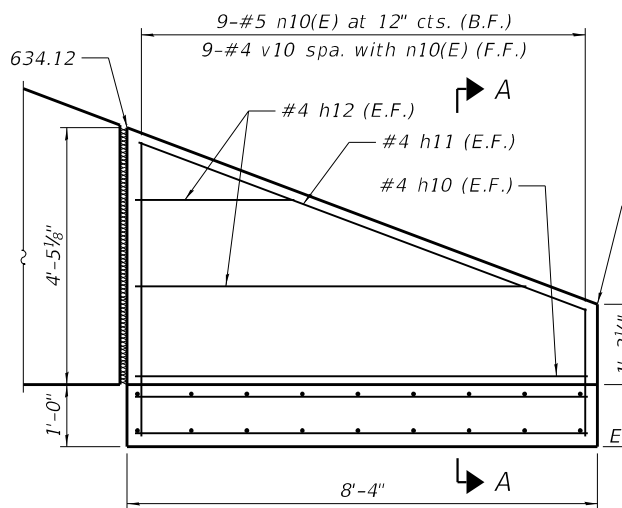
Order h2(E), h3(E), v7(E) and v8(E) full length. Cut as shown and use remainder of bars in opposite face.



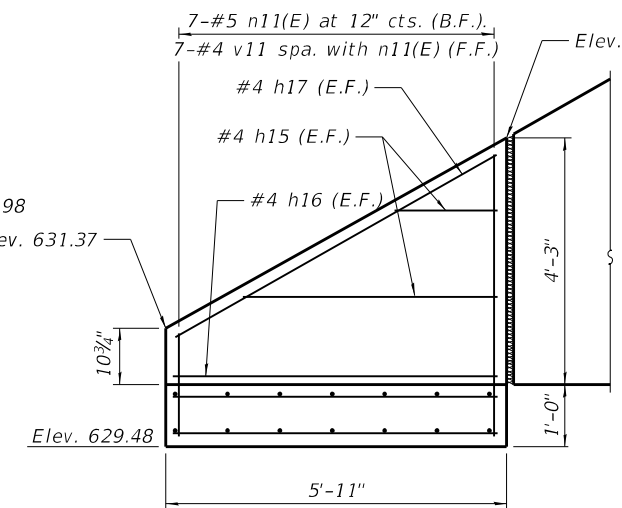
Notes:
Pour steps monolithically with cap.
Space reinforcing in cap to miss anchor bolts.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles, see sheet 32 of 38.
Pile sleeve shall be corrugated metal or HDPE.
Cost of pile sleeve and bentonite included with Furnishing Steel Piles.



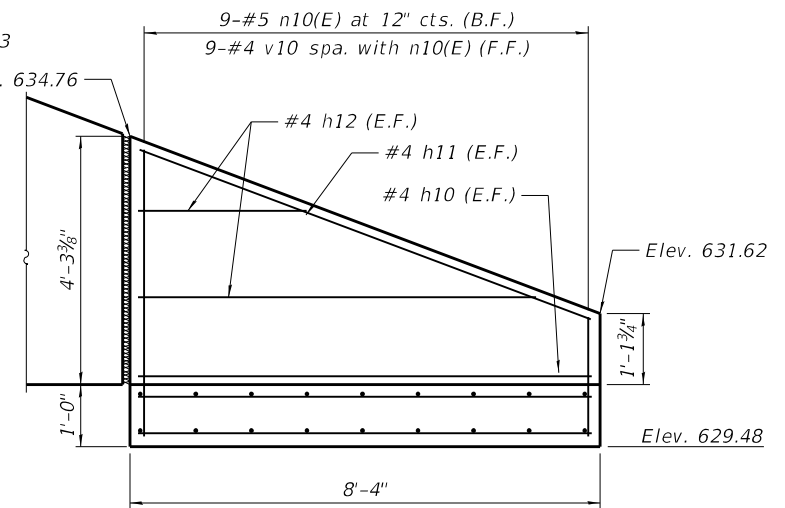
SOUTHEAST WING



SOUTHWEST WING



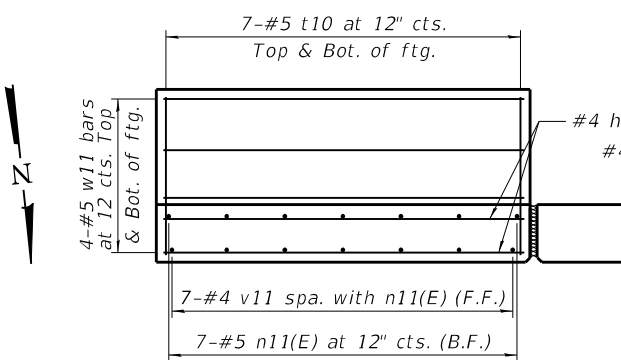
NORTHWEST WING



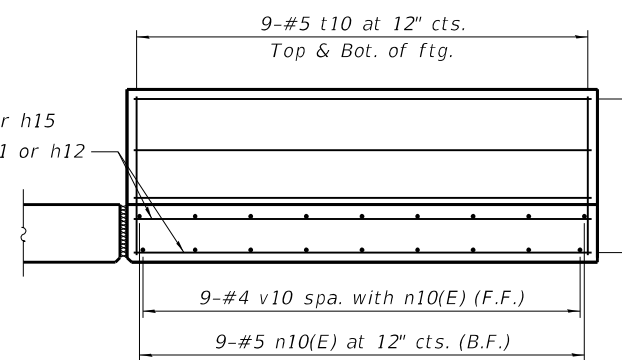
NORTHEAST WING

ELEVATION
(Looking at Front Face)

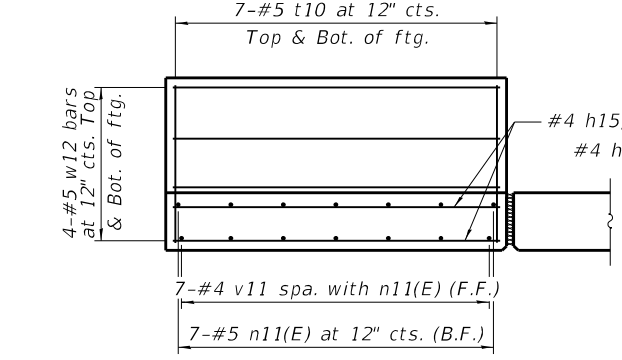
ELEVATION
(Looking at Front Face)



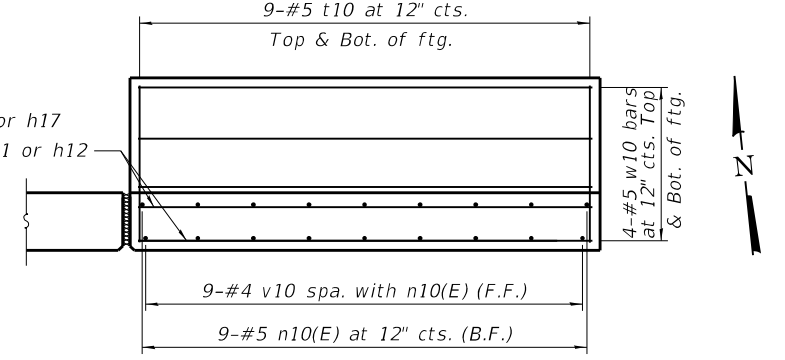
SOUTHEAST WING



SOUTHWEST WING



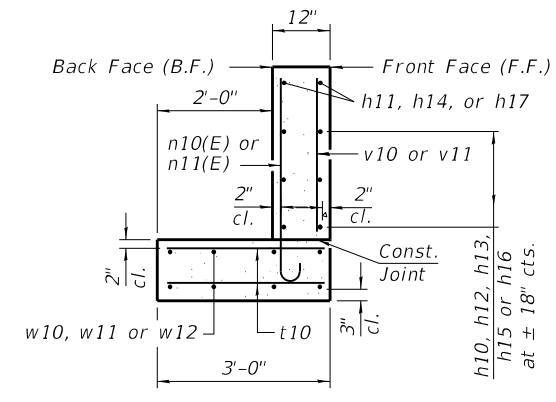
NORTHWEST WING



NORTHEAST WING

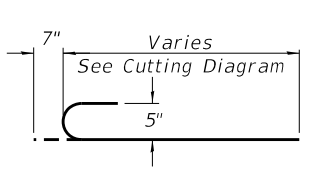
PLAN

PLAN



SECTION A-A

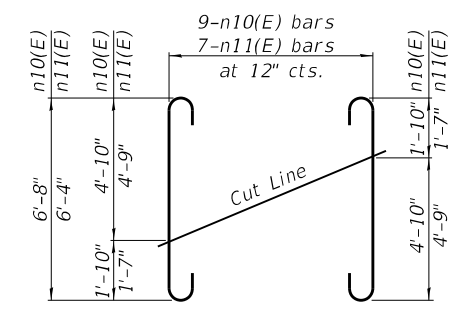
Max. Applied Service Bearing Pressure = 1.2 ksf



BAR n10(E) & n11(E)

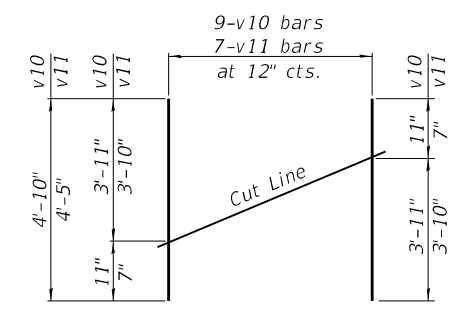
6" Hollow bulb dumbbell type nonmetallic water seal (6" from top of wall to bottom) Cost included with Concrete Structures.
 1/2" PJF
 1" Chamfer
 Concrete Nails (Flat Hd. C.S.) 1" long at 12" cts. vertical

JOINT DETAIL



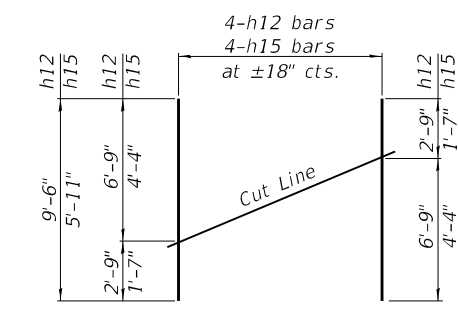
FIELD CUTTING DIAGRAM

Order bars shown full length. Cut as shown and use bars in appropriate wingwalls.



FIELD CUTTING DIAGRAM

Order bars shown full length. Cut as shown and use bars in appropriate wingwalls.



FIELD CUTTING DIAGRAM

Order bars shown full length. Cut as shown and use bars in appropriate wingwalls.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
v10	9	#4	4'-10"	—
v11	7	#4	4'-5"	—
h10	4	#4	8'-0"	—
h11	4	#4	8'-6"	—
h12	4	#4	9'-6"	—
h13	2	#4	6'-1"	—
h14	2	#4	6'-10"	—
h15	4	#4	5'-11"	—
h16	2	#4	5'-7"	—
h17	2	#4	6'-4"	—
n10(E)	9	#5	7'-10"	U
n11(E)	7	#5	7'-6"	U
t10	64	#5	2'-8"	—
w10	16	#5	8'-0"	—
w11	8	#5	6'-1"	—
w12	8	#5	5'-7"	—
Concrete Structures		Cu. Yd.	6.2	
Reinforcement Bars		Pound	580	
Reinforcement Bars, Epoxy Coated		Pound	130	

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 FILE NAME: P:\E\ffingham\110922.dwg
 PROJECT: Tilton Road Bridge 05\CAD\110922.dwg
 DATE: 7/30/2020



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PLOT SCALE = 40.0000' / in.	CHECKED - KAS	REVISIONS
PLOT DATE = 7/30/2020	DRAWN - DMM	REVISIONS
	CHECKED - TJZ	REVISIONS

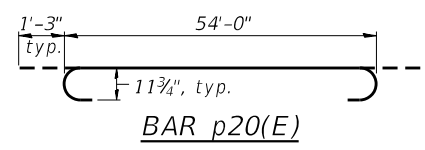
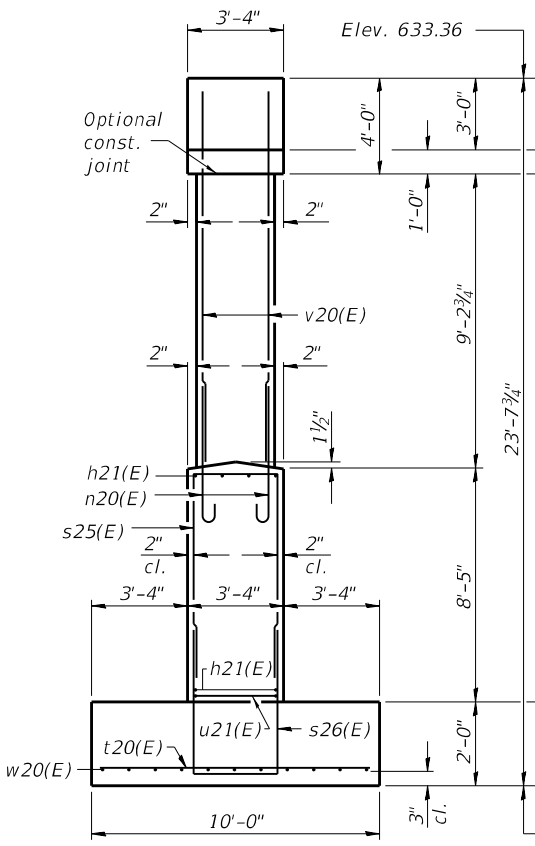
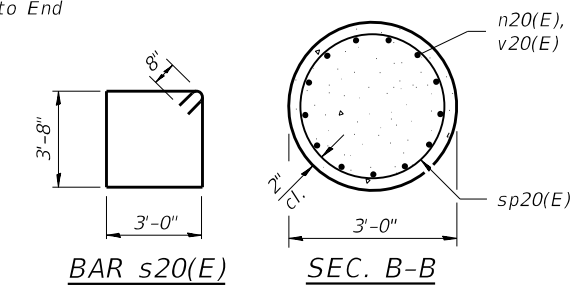
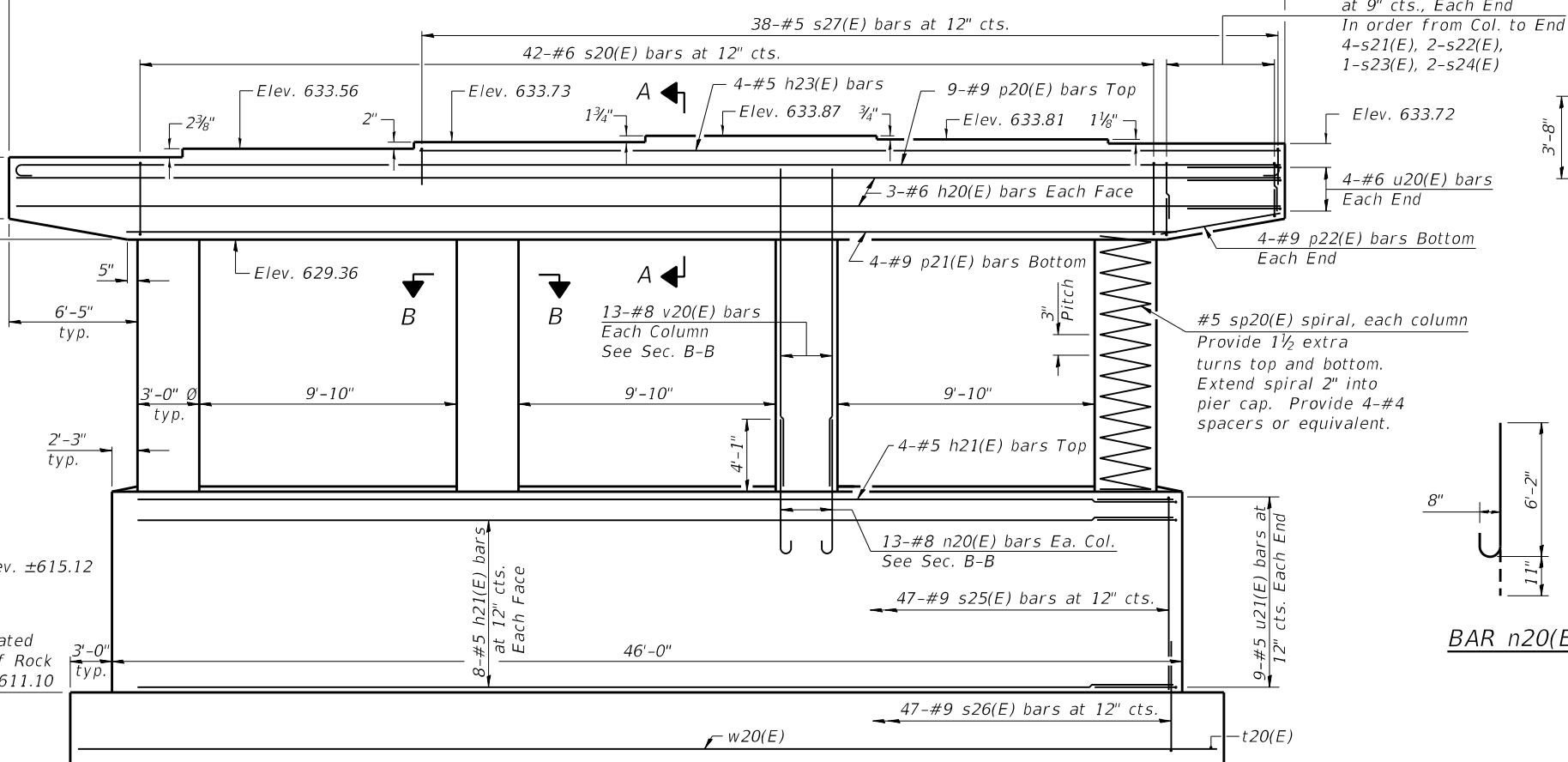
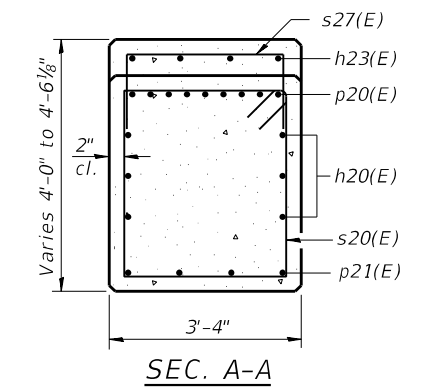
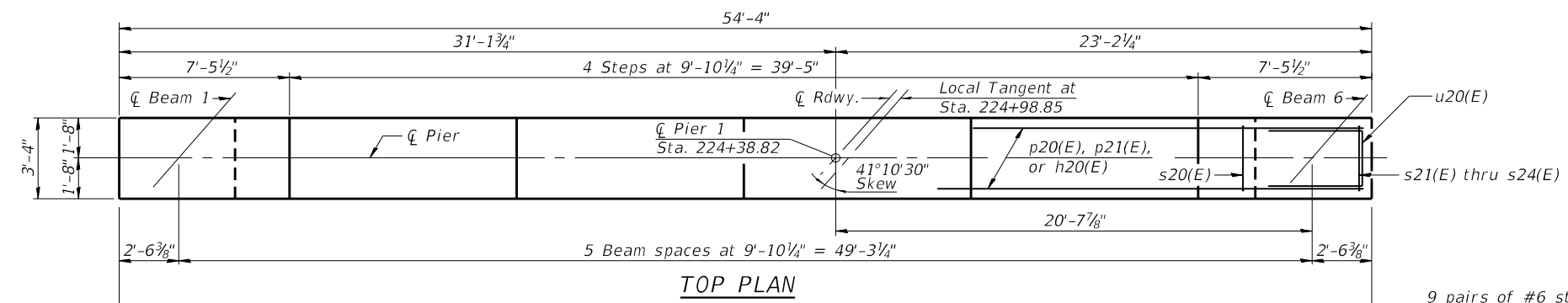
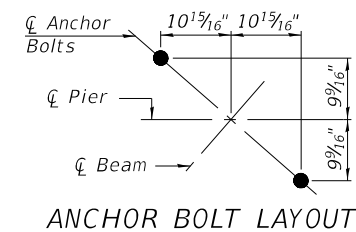
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL EXTENSION
STRUCTURE NO. 092-0204

SHEET 25 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-4	VERMILION	133	80
				CONTRACT NO. 90922
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Concrete Sealer to be applied to all exposed areas of the proposed crash wall, columns and cap.

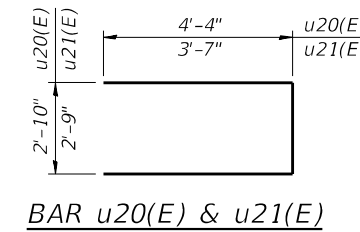
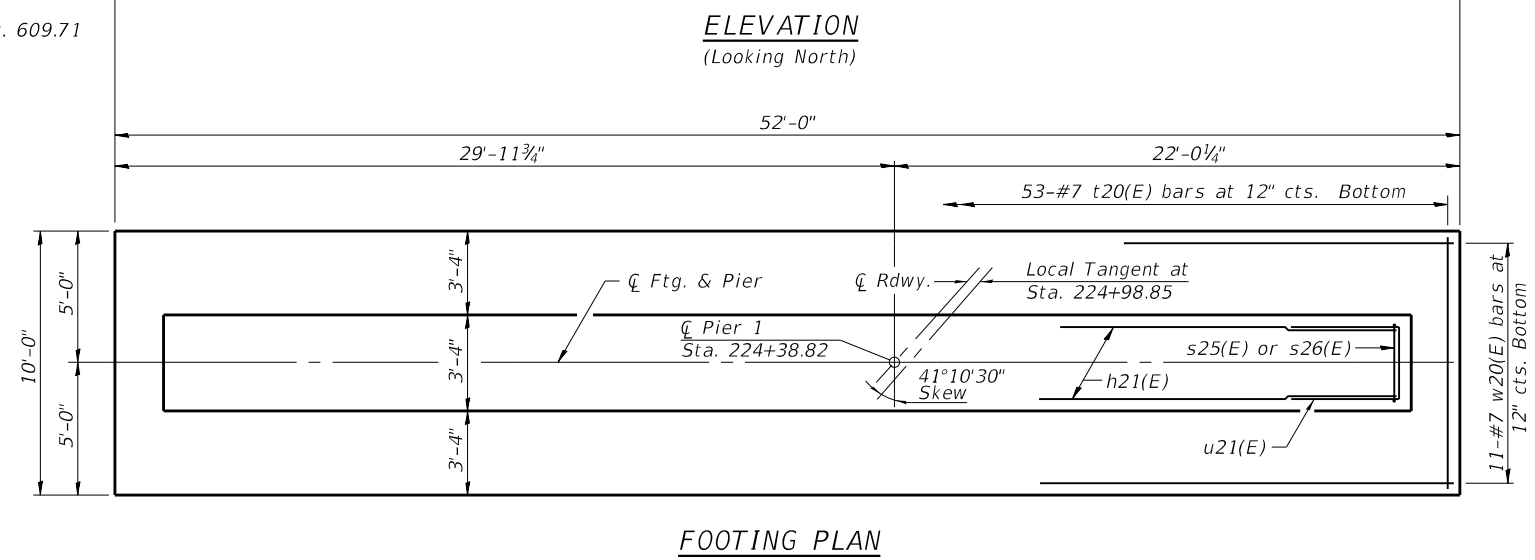
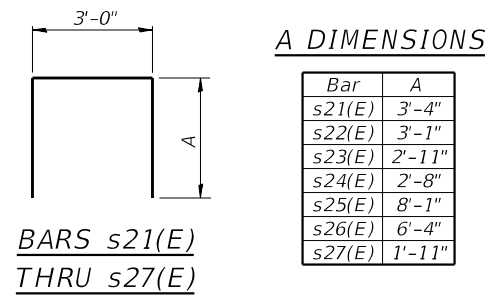


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	6	#6	54'-0"	—
h21(E)	20	#5	45'-8"	—
h23(E)	4	#5	36'-8"	—
n20(E)	52	#8	7'-1"	—
p20(E)	9	#9	56'-6"	—
p21(E)	4	#9	42'-4"	—
p22(E)	8	#9	5'-11"	—
s20(E)	42	#6	14'-8"	□
s21(E)	16	#6	9'-8"	U
s22(E)	8	#6	9'-2"	U
s23(E)	4	#6	8'-10"	U
s24(E)	8	#6	8'-4"	U
s25(E)	47	#9	19'-2"	U
s26(E)	47	#9	15'-8"	U
s27(E)	38	#5	6'-10"	U
sp20(E)	4	#5	9'-3"	⌘
t20(E)	53	#7	9'-6"	—
u20(E)	8	#6	11'-6"	—
u21(E)	18	#5	9'-11"	—
v20(E)	52	#8	12'-10"	—
w20(E)	11	#7	51'-6"	—
Structure Excavation		Cu. Yd.	88	
Rock Excavation for Structures		Cu. Yd.	12	
Concrete Structures		Cu. Yd.	124.7	
Reinforcement Bars, Epoxy Coated		Pound	18,000	
Concrete Sealer		Sq. Ft.	1,782	

** Length is height of spiral.

Max. applied service bearing pressure
 $Q_{max} = 5.0$ ksf



MODEL: D:\p1\1.dgn
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 PLOT DATE: 8/3/2020



USER NAME = tjeigler
 DESIGNED - TJZ
 CHECKED - KAS
 DRAWN - DMM
 CHECKED - TJZ
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 8/3/2020

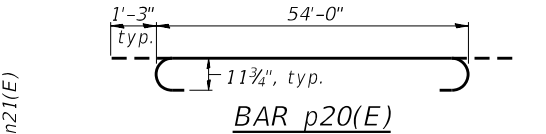
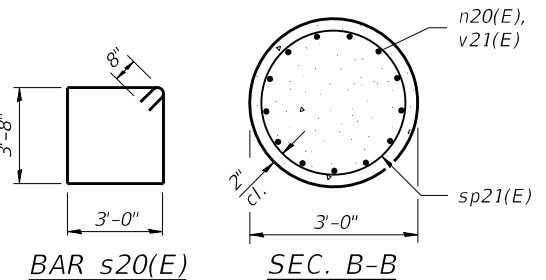
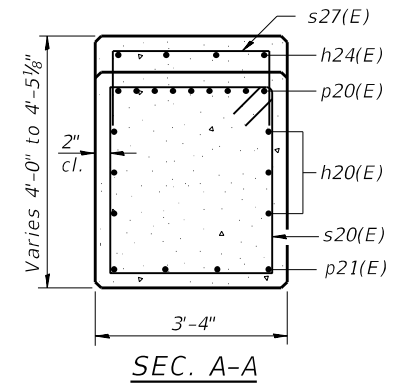
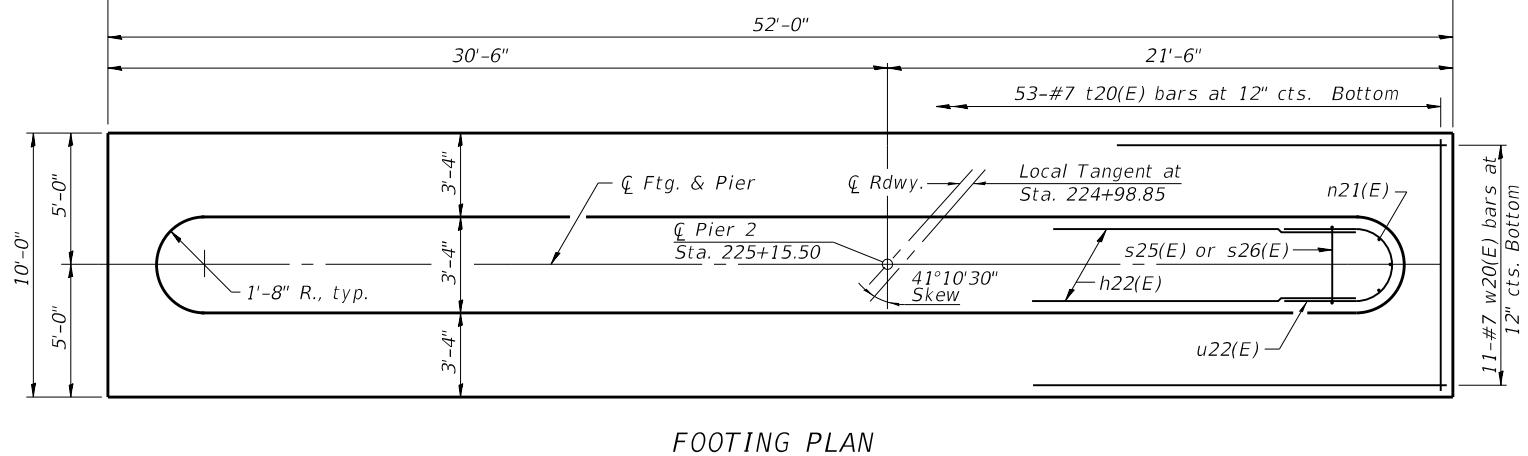
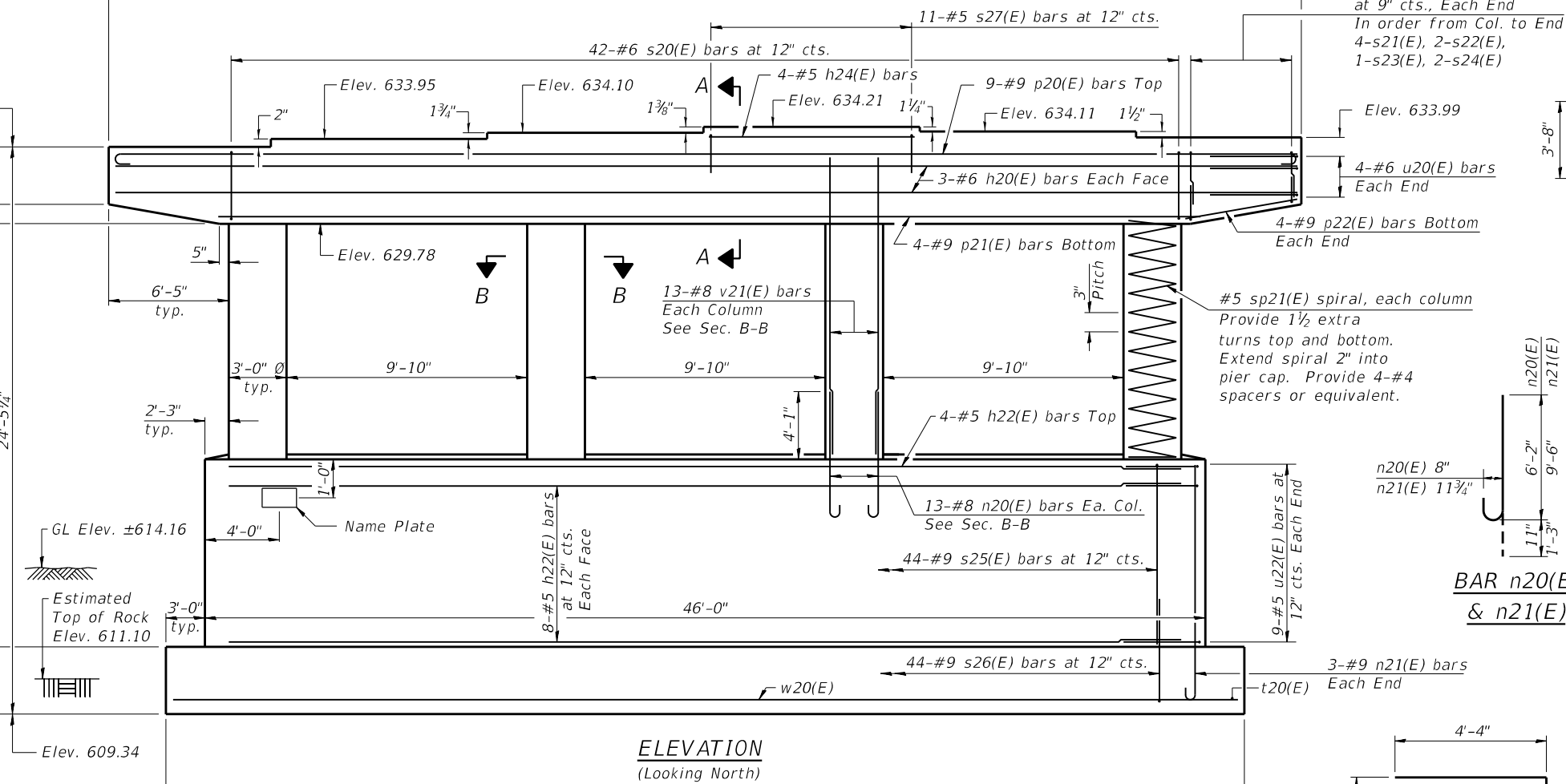
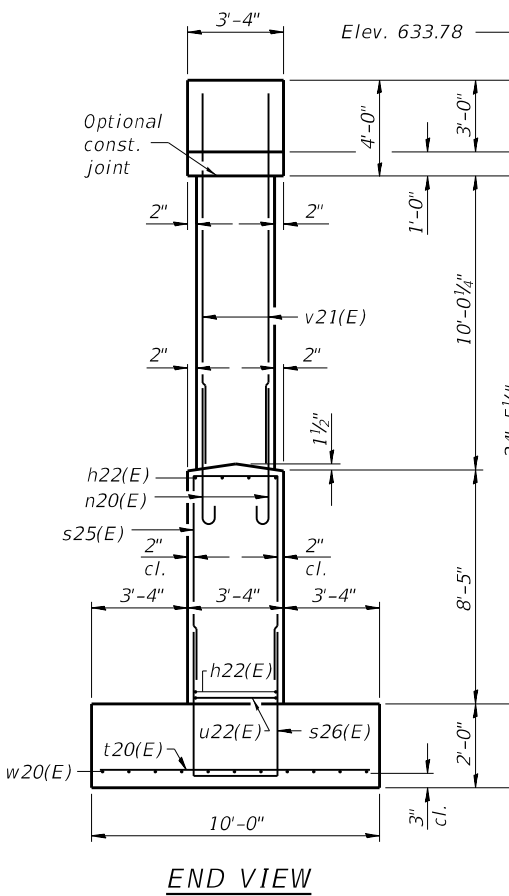
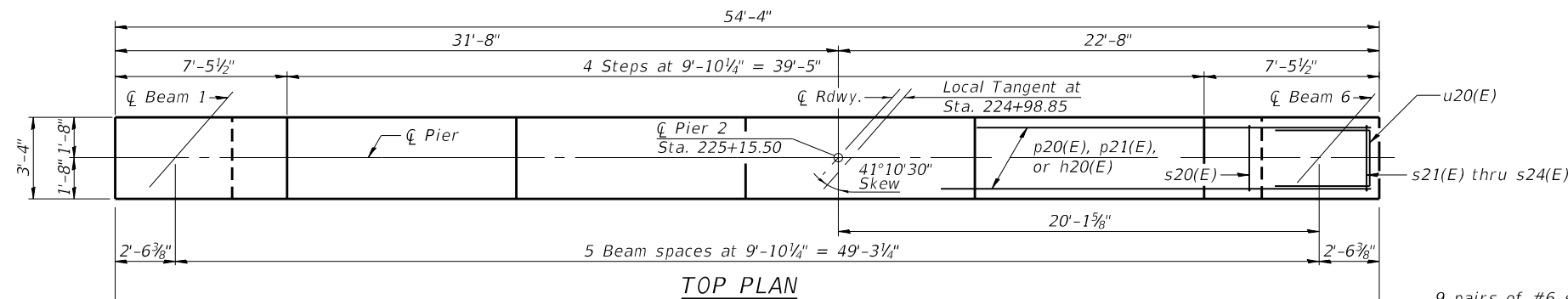
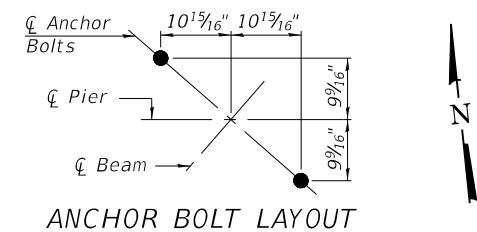
DESIGNED - TJZ
 CHECKED - KAS
 DRAWN - DMM
 CHECKED - TJZ
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1
 STRUCTURE NO. 092-0204**
 SHEET 26 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-4	VERMILION	133	81
				CONTRACT NO. 90922
		ILLINOIS	FED. AID PROJECT	

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

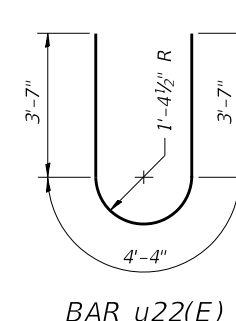
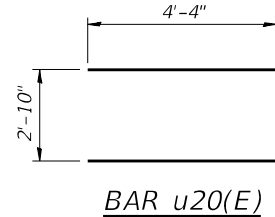
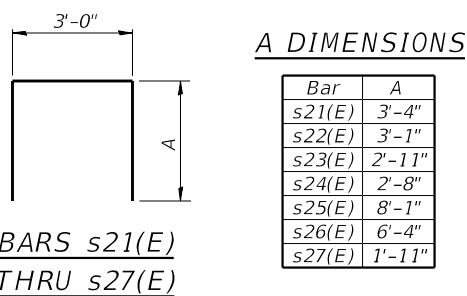


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	6	#6	54'-0"	—
h22(E)	20	#5	42'-8"	—
h24(E)	4	#5	9'-6"	—
n20(E)	52	#8	7'-1"	U
n21(E)	6	#9	10'-9"	U
p20(E)	9	#9	56'-6"	U
p21(E)	4	#9	42'-4"	—
p22(E)	8	#9	5'-11"	—
s20(E)	42	#6	14'-8"	□
s21(E)	16	#6	9'-8"	U
s22(E)	8	#6	9'-2"	U
s23(E)	4	#6	8'-10"	U
s24(E)	4	#6	8'-4"	U
s25(E)	44	#9	19'-2"	U
s26(E)	44	#9	15'-8"	U
s27(E)	11	#5	6'-10"	U
sp21(E)	4	#5	10'-0"	W
t20(E)	53	#7	9'-6"	—
u20(E)	8	#6	11'-6"	U
u22(E)	18	#5	11'-6"	U
v21(E)	52	#8	13'-7"	—
w20(E)	11	#7	51'-6"	—
Structure Excavation		Cu. Yd.	59	
Rock Excavation for Structures		Cu. Yd.	12	
Concrete Structures		Cu. Yd.	124.3	
Reinforcement Bars, Epoxy Coated		Pound	17,730	

** Length is height of spiral.

Max. applied service bearing pressure
 $Q_{max} = 5.0 \text{ ksf}$



MODEL: Default
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USER NAME = tzjgler
 DESIGNED - TJZ
 CHECKED - KAS
 DRAWN - DMM
 CHECKED - TJZ
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 8/3/2020

DESIGNED - TJZ
 CHECKED - KAS
 DRAWN - DMM
 CHECKED - TJZ
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

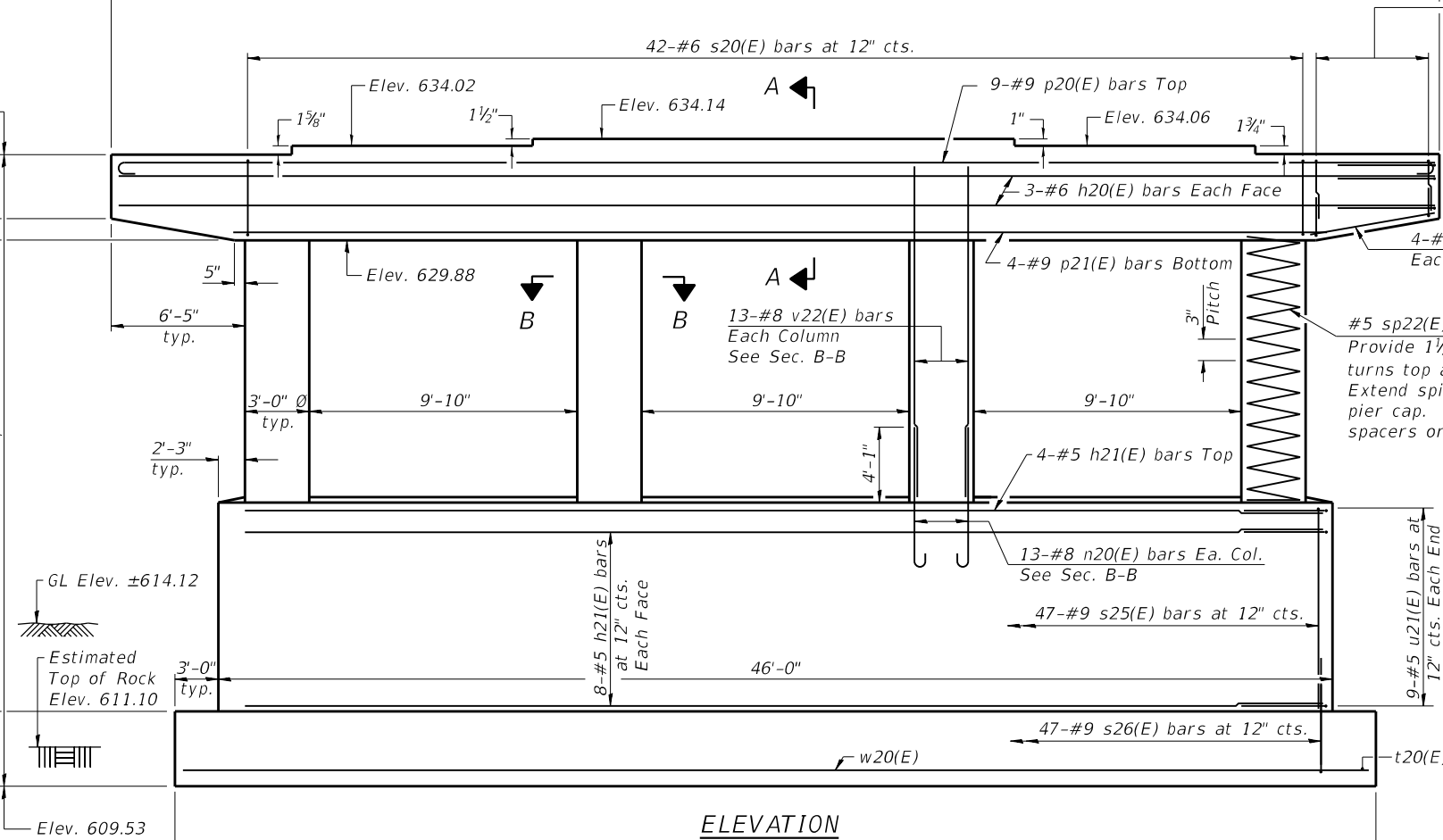
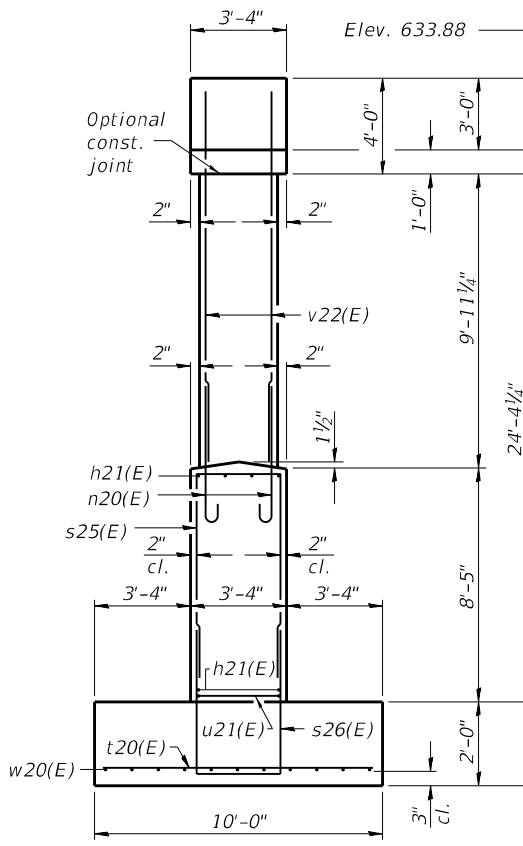
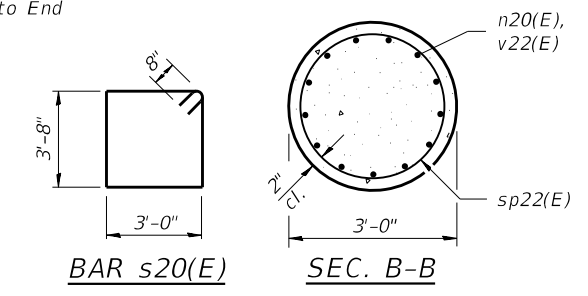
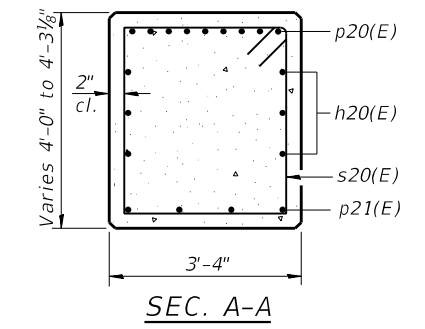
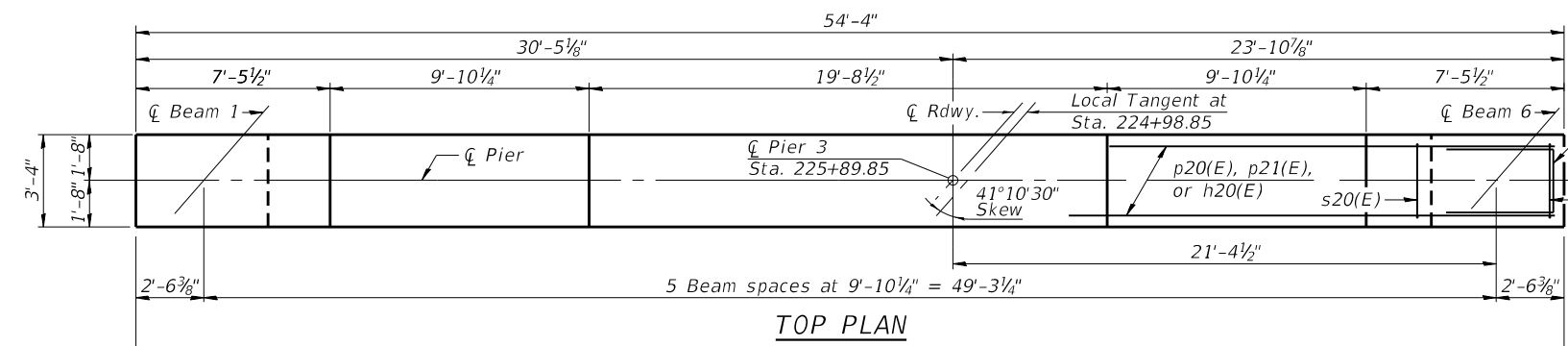
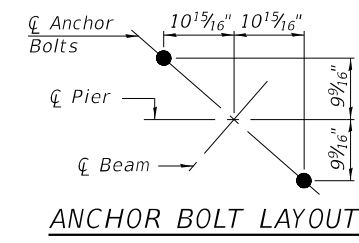
PIER 2
 STRUCTURE NO. 092-0204

SHEET 27 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-4	VERMILION	133	82

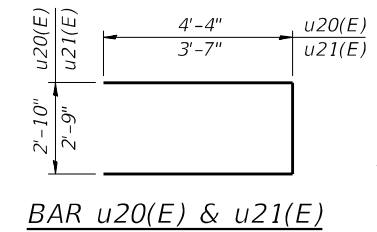
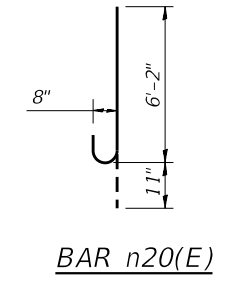
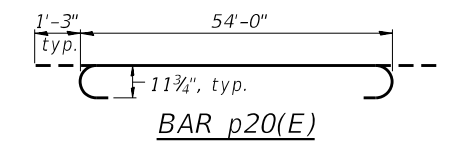
CONTRACT NO. 90922
 ILLINOIS FED. AID PROJECT

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Concrete Sealer to be applied to all exposed areas of the proposed crash wall, columns and cap.



9 pairs of #6 stirrups at 9" cts., Each End
 In order from Col. to End
 4-s21(E), 2-s22(E), 1-s23(E), 2-s24(E)

#5 sp22(E) spiral, each column
 Provide 1/2 extra turns top and bottom.
 Extend spiral 2" into pier cap. Provide 4-#4 spacers or equivalent.

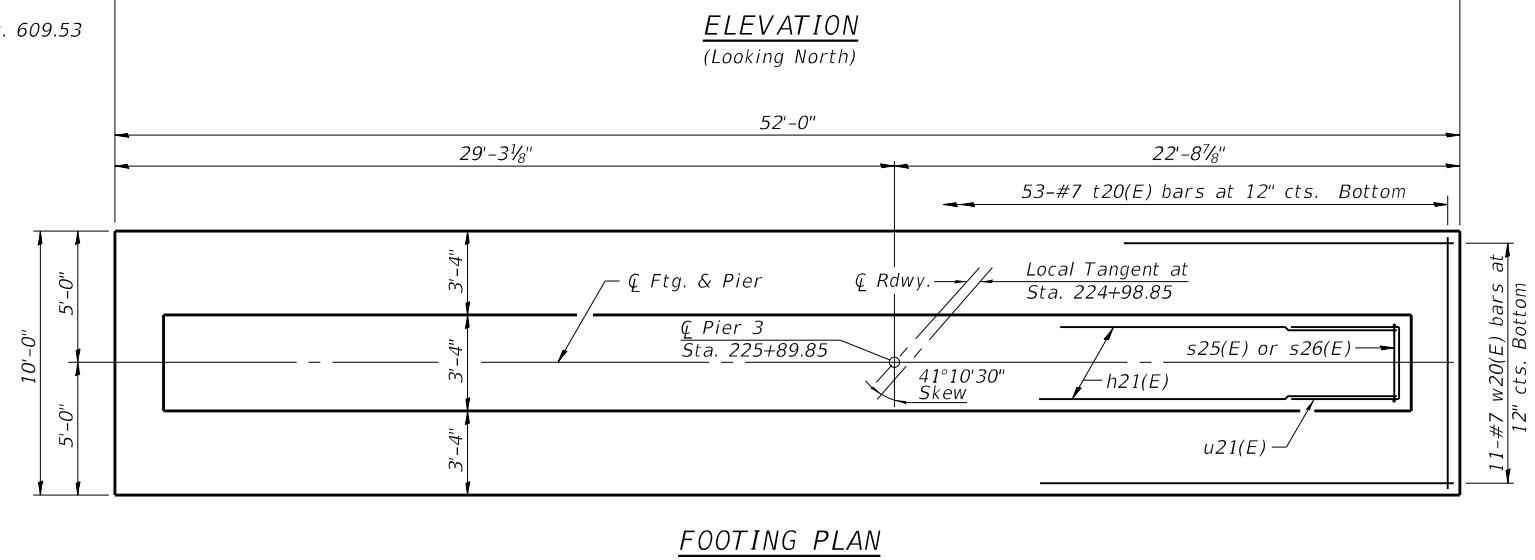
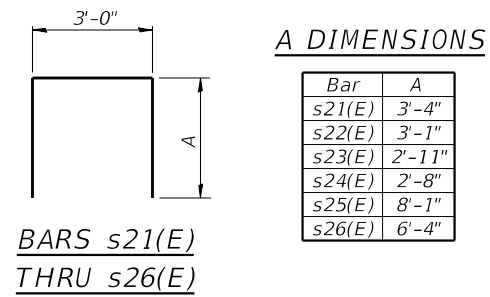


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	6	#6	54'-0"	—
h21(E)	20	#5	45'-8"	—
n20(E)	52	#8	7'-1"	U
p20(E)	9	#9	56'-6"	U
p21(E)	4	#9	42'-4"	—
p22(E)	8	#9	5'-11"	—
s20(E)	42	#6	14'-8"	□
s21(E)	16	#6	9'-8"	U
s22(E)	8	#6	9'-2"	U
s23(E)	4	#6	8'-10"	U
s24(E)	4	#6	8'-4"	U
s25(E)	47	#9	19'-2"	U
s26(E)	47	#9	15'-8"	U
sp22(E)	4	#5	9'-11"	W
t20(E)	53	#7	9'-6"	—
u20(E)	8	#6	11'-6"	U
u21(E)	18	#5	9'-11"	U
v22(E)	52	#8	13'-6"	—
w20(E)	11	#7	51'-6"	—
Structure Excavation		Cu. Yd.	57	
Rock Excavation for Structures		Cu. Yd.	11	
Concrete Structures		Cu. Yd.	124.3	
Reinforcement Bars, Epoxy Coated		Pound	17,760	
Concrete Sealer		Sq. Ft.	1,871	

** Length is height of spiral.

Max. applied service bearing pressure
 $Q_{max} = 5.0$ ksf



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 PLOT DATE: 8/3/2020



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 CHECKED - KAS
 DRAWN - DMM
 CHECKED - TJZ
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 8/3/2020

DESIGNED - TJZ
 CHECKED - KAS
 DRAWN - DMM
 CHECKED - TJZ
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 3
 STRUCTURE NO. 092-0204
 SHEET 28 OF 38 SHEETS

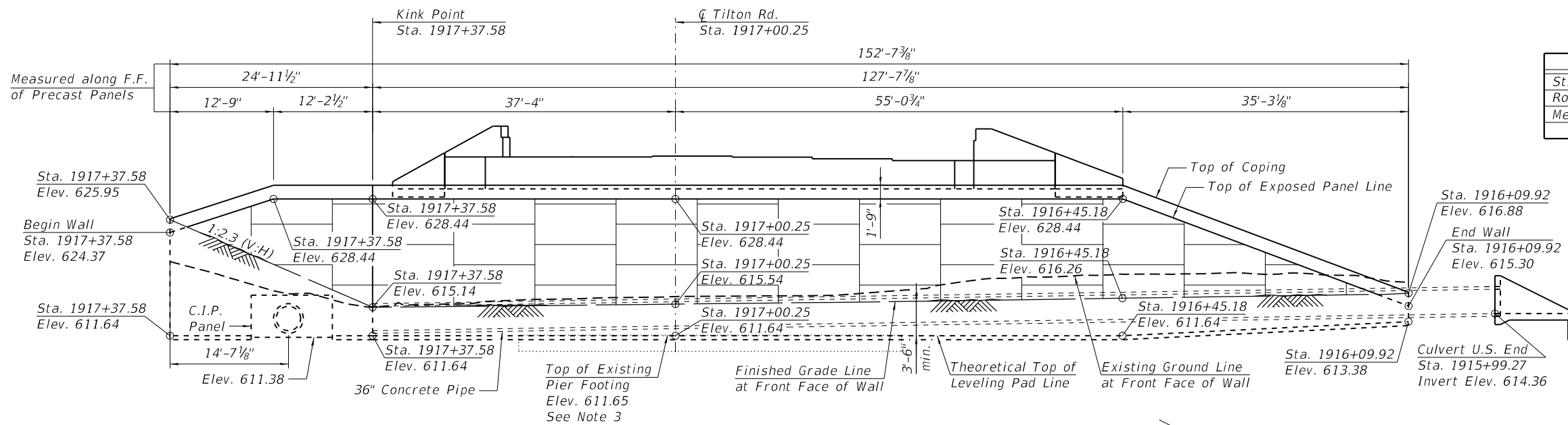
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-4	VERMILION	133	83
				CONTRACT NO. 90922

ILLINOIS FED. AID PROJECT

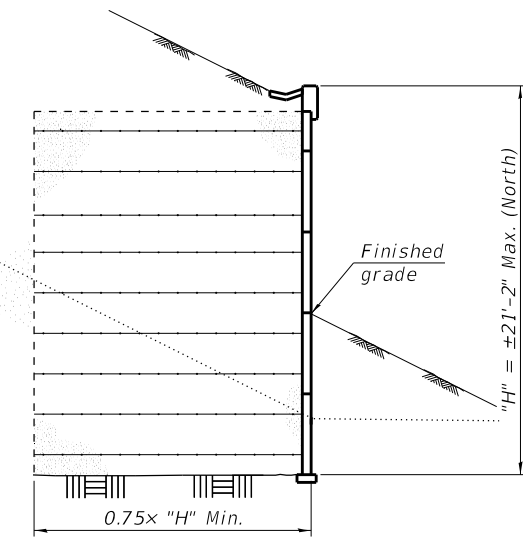
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	307
Rock Excavation for Structures	Cu. Yd.	291
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,276

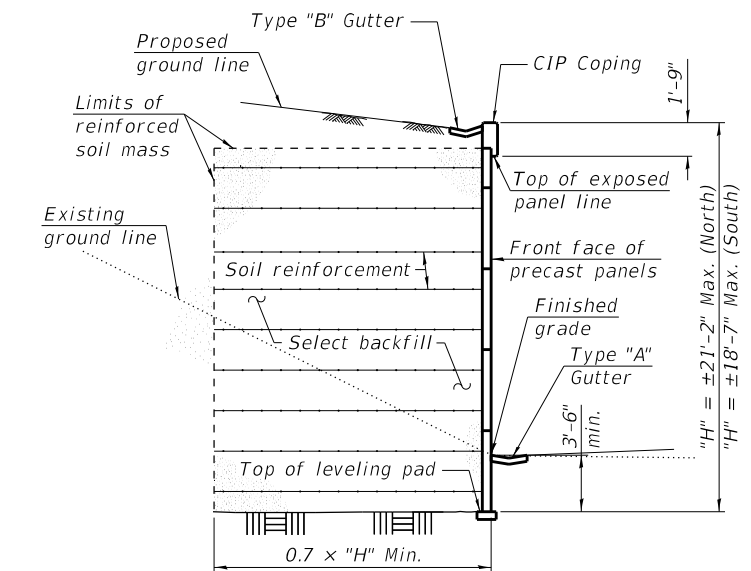
Note:
Top of Rock Elevation assumed for quantities is Top of Massive Shale Elev. 615.6 from the Structure Geotechnical Report. The Engineer will determine if material qualifies as rock excavation according to Article 502.03 of the Standard Specifications.



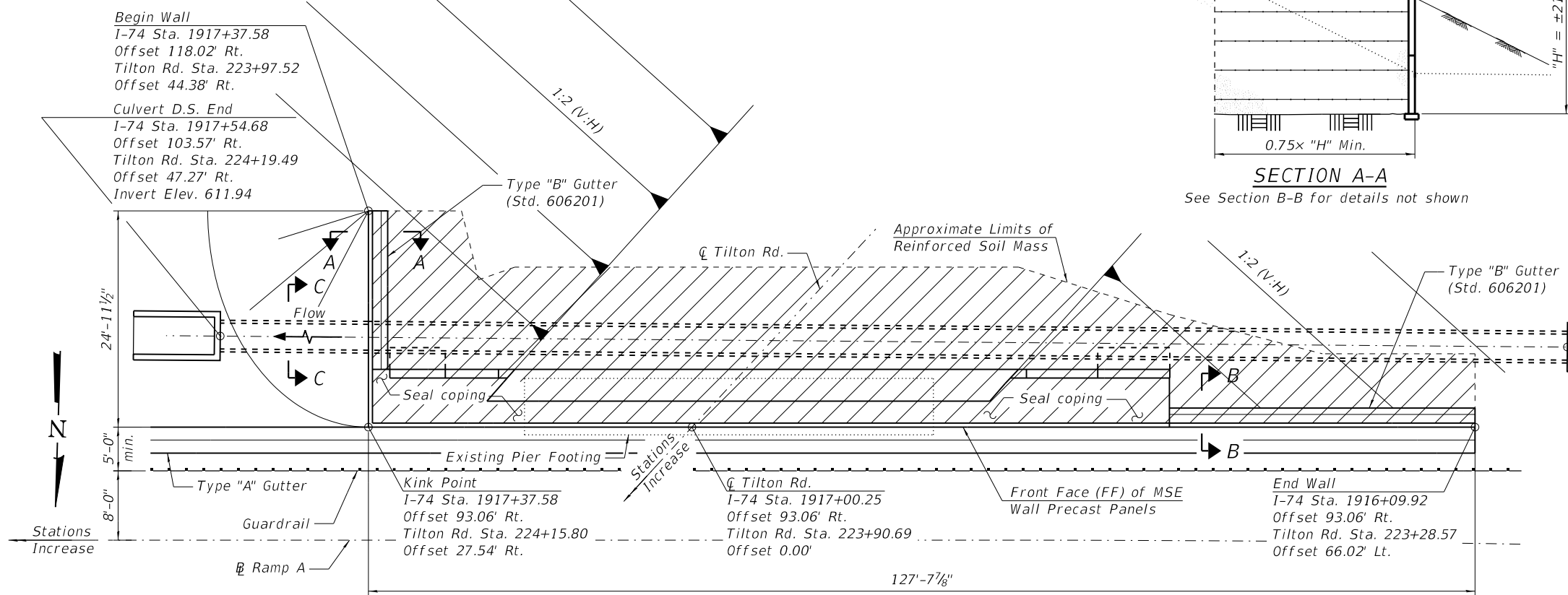
UNFOLDED ELEVATION OF SOUTH WALL



SECTION A-A
See Section B-B for details not shown



SECTION B-B



PLAN OF SOUTH WALL

Notes:
1. Wall offsets are measured from the C/E of the alignments to the front face of precast panels.
2. For Section C-C and Section Thru Integral Abutment see Sheet 31 of 38.
3. Existing footings shall be removed to the bottom of the reinforced soil mass and bottom of leveling pad. Structure excavation of soil above the existing footings is included in the cost of Removal of Existing Structures per Article 501.06 of the Standard Specifications. The volume bounded by the edges of the existing footing, the bottom of the excavation and the existing ground surface has been omitted from the MSE retaining wall excavation quantities.

MODEL: Dwg.rvt FILE NAME: P:\2018\11\03\2404_CADD - DWG\4.4_Struct\092-0204-0922-029_MSE Wall at South Abutment.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

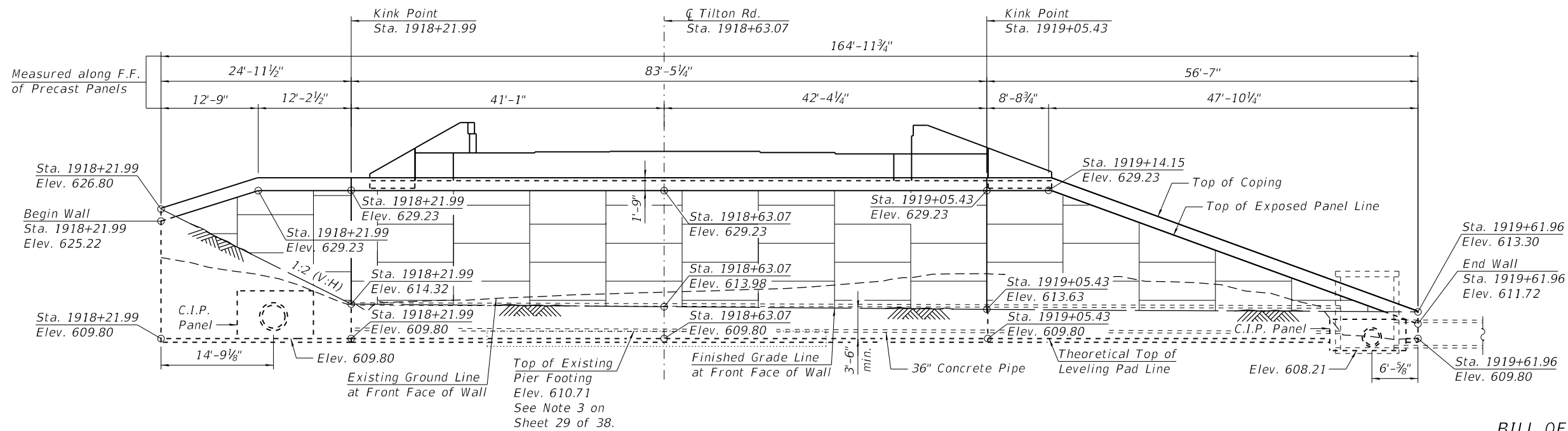
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PLOT DATE = 8/4/2020	DRAWN - NP	REVISD -
	CHECKED - MJJ	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MSE WALL SOUTH ABUTMENT
STRUCTURE NO. 092-0204**

SHEET 29 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	84
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

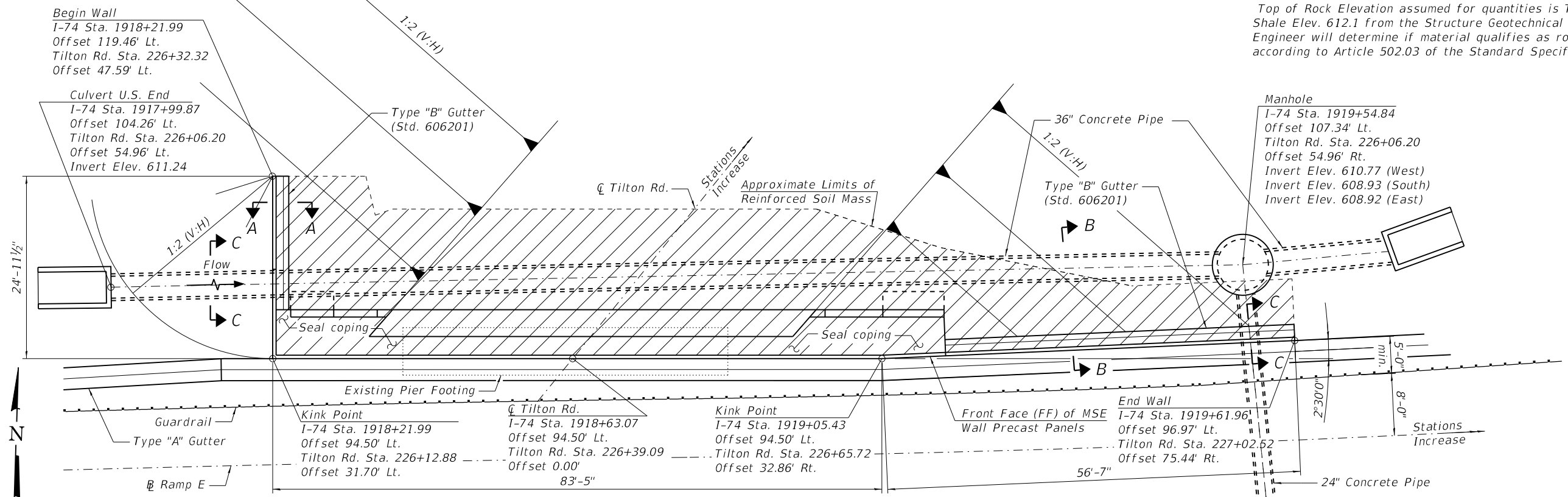


UNFOLDED ELEVATION OF NORTH WALL

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	541
Rock Excavation for Structures	Cu. Yd.	205
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,761

Note:
Top of Rock Elevation assumed for quantities is Top of Massive Shale Elev. 612.1 from the Structure Geotechnical Report. The Engineer will determine if material qualifies as rock excavation according to Article 502.03 of the Standard Specifications.



PLAN OF NORTH WALL

- Notes:
1. Wall offsets are measured from the C/R of alignments to the front face of precast panels.
 2. For Section A-A and B-B see Sheet 29 of 38.
 3. For Section C-C and Section Thru Integral Abutment see Sheet 31 of 38.
 4. See Drainage Plan for information not shown.

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 STRUCT: 09220204-0922-0204

TWM
 ENGINEERING
 GEOSPATIAL SERVICES
 TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = nparajuli	DESIGNED - NPT/JR	REVISED -
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PLOT DATE = 8/4/2020	DRAWN - NP	REVISED -
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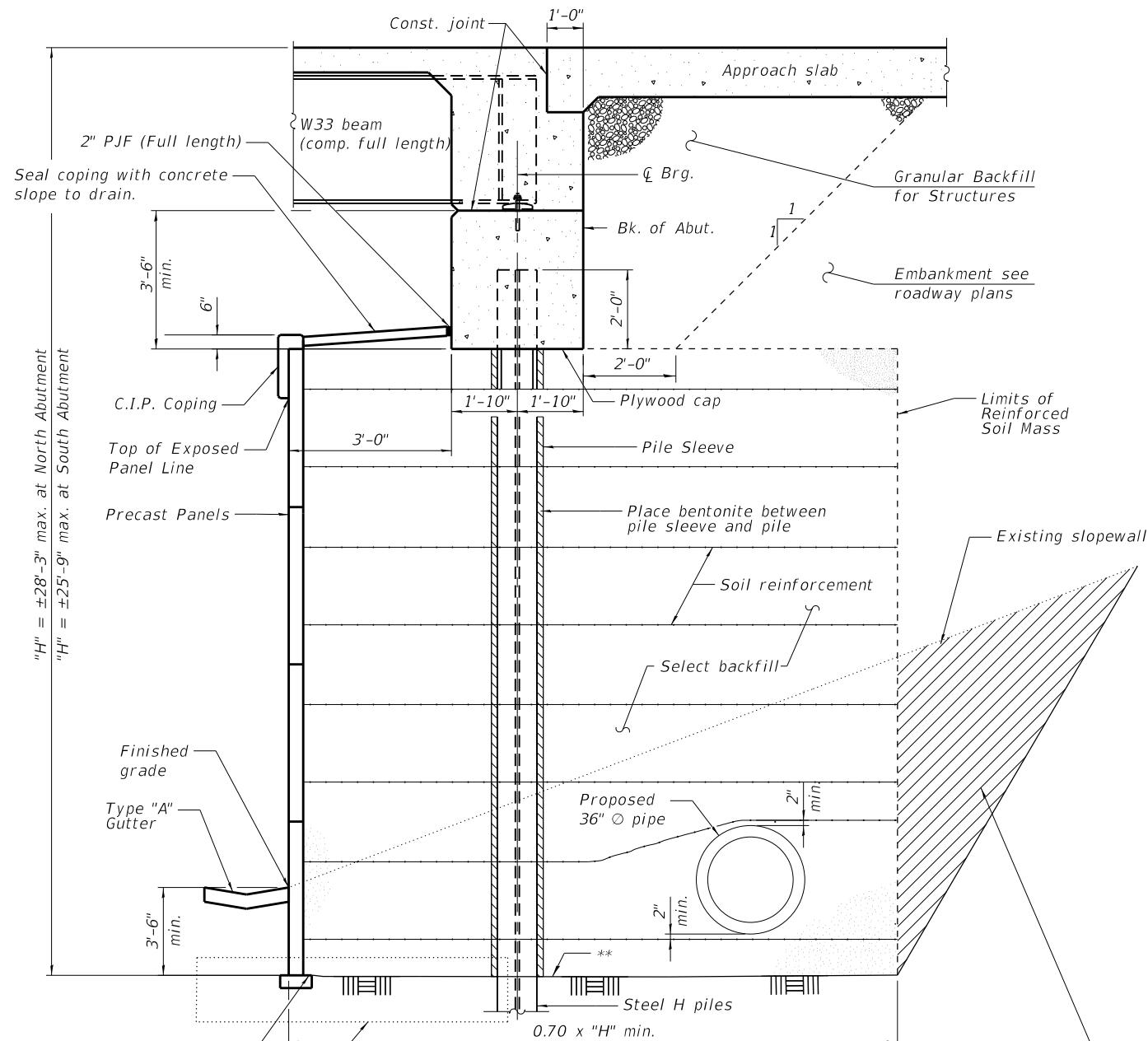
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MSE WALL NORTH ABUTMENT
 STRUCTURE NO. 092-0204

SHEET 30 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	85
CONTRACT NO. 90922				

ILLINOIS FED. AID PROJECT



SECTION THRU INTEGRAL ABUTMENT

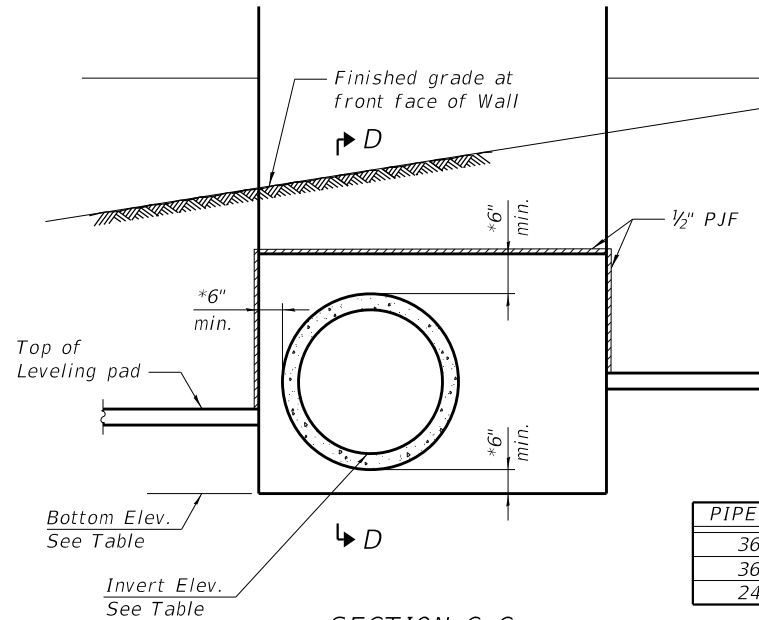
(Horizontal dim. @ Rt. <'s)

Top of Leveling Pad & Top of Rock Socket
Elev. 611.64 at S. Abut.
Elev. 609.80 at N. Abut.

Existing Pier Footing
See Note 3 on Sheet 29 of 38.

** Top of Rock Elevation shown is after rock excavation to top of MSE wall leveling pad is complete.

Over-excavation beyond structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.



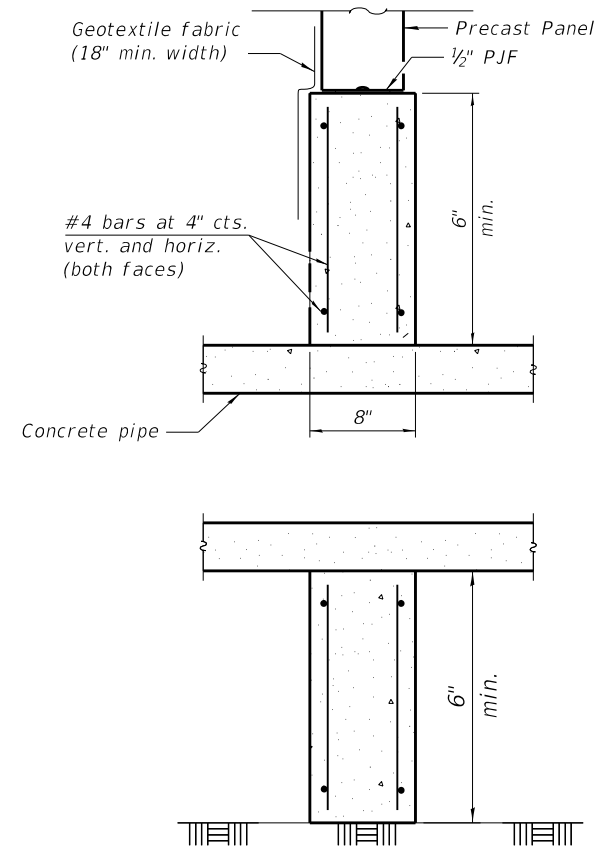
SECTION C-C

* Wall supplier to determine required dimensions.

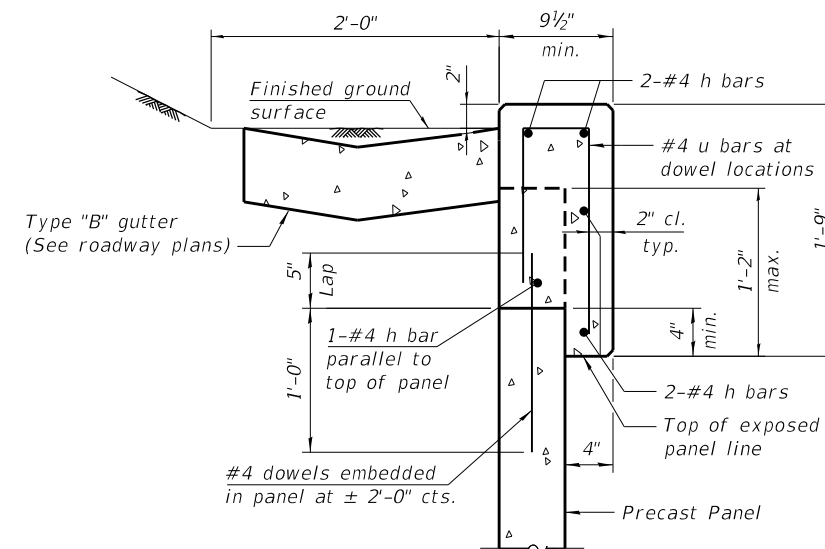
PIPE PASS THROUGH INVERTS

PIPE I.D.	WALL	I-74 STA.	OFFSET	INVERT ELEV.	BOTTOM ELEV.
36"	South	1917+37.58	103.43' Rt.	612.21	611.38
36"	North	1918+21.99	104.70' Lt.	611.17	609.80
24"	North	1919+55.91	96.70' Lt.	608.96	608.21

- Note:
- Cost of coping, seal coping, and cast in place pipe pass through panel including reinforcement in coping are included in the cost of "Mechanically Stabilized Earth Retaining Wall".
 - For location of Section C-C, see Sheet 29 and 30 of 38.

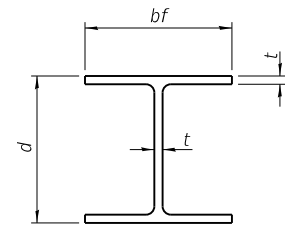


SECTION D-D



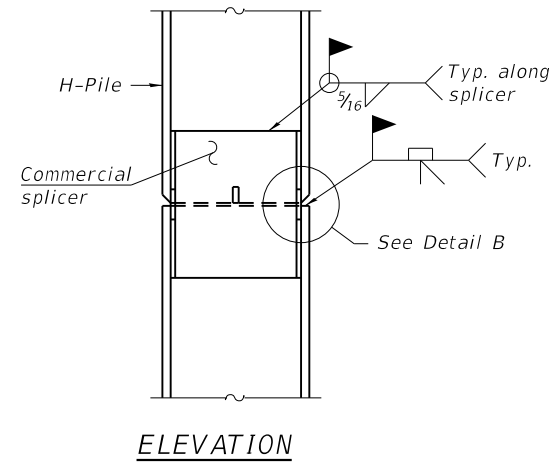
CAST IN PLACE COPING FOR M.S.E. WALL PANELS

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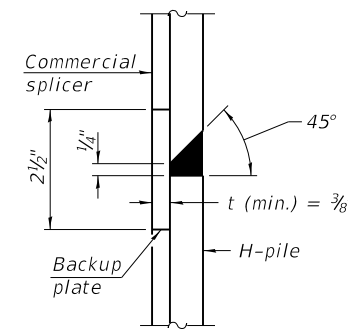


STEEL PILE TABLE

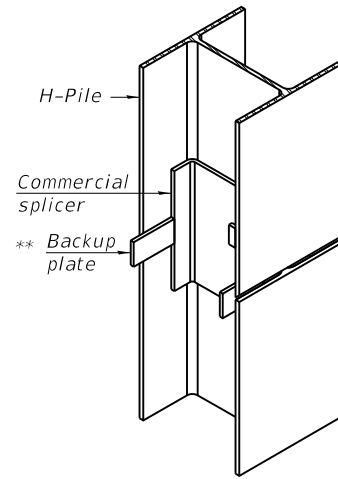
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

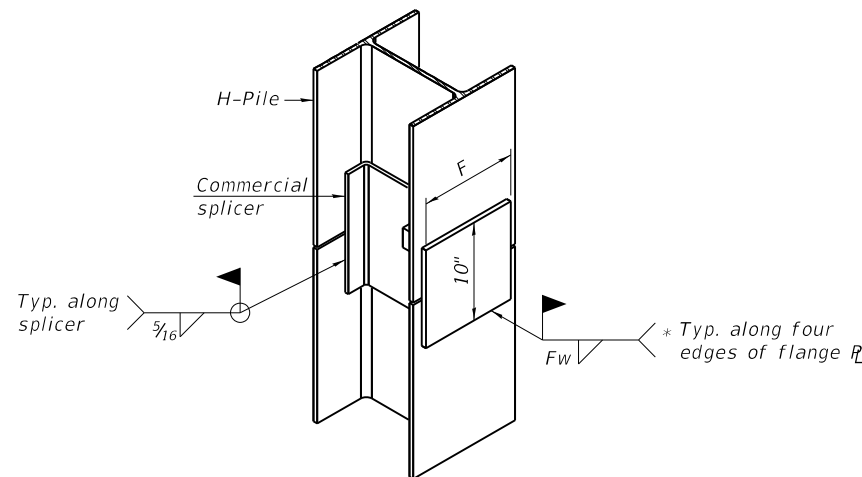


DETAIL "B"



ISOMETRIC VIEW

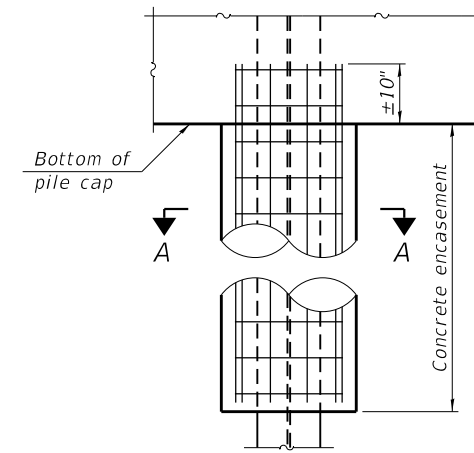
WELDED COMMERCIAL SPLICE



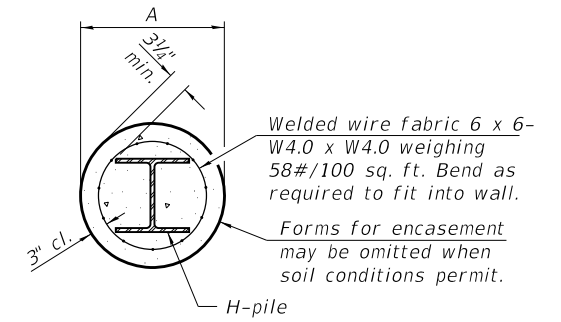
ISOMETRIC VIEW

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.).

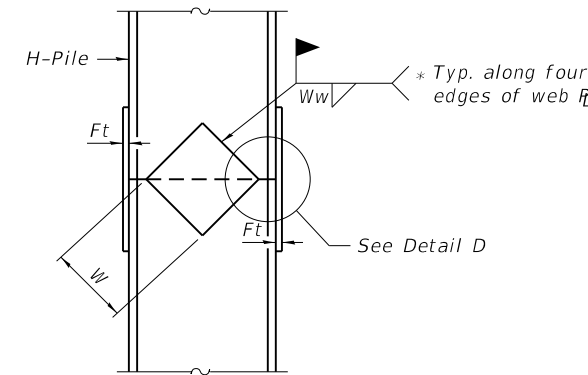


ELEVATION

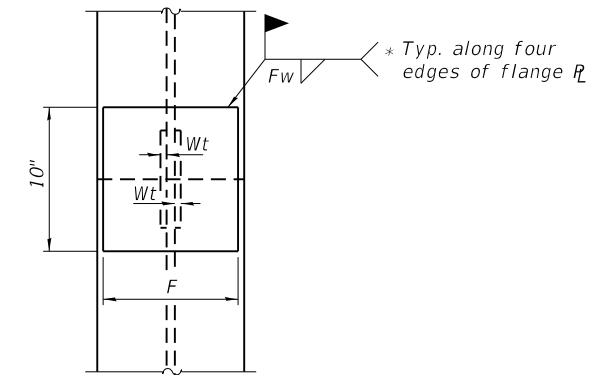


SECTION A-A

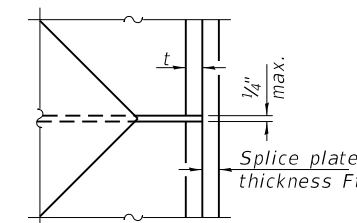
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)



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.

F-HP 1-1-2020



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PLOT DATE = 8/4/2020	DRAWN - DRA	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 092-0204

SHEET 32 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	87
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

MODEL: Dwg4.rvt FILE NAME: P:\2020\092-0204\90922-032 - HP Pile Details.dgn

Note:
Boring 1 location along proposed alignment is Sta. 226+99.39, Offset 7.8 ft Lt.



ROCK CORE LOG

Date 4/29/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA

SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM,
GPS:

COUNTY Vermilion CORING METHOD Rotary Core With Water Flush

STRUCT. NO. 092-0087 CORING BARREL TYPE & SIZE BWD4
Station 52+12.89 (Tilton Rd.)

BORING NO. 1 North Abut. Core Diameter 1.6 in
Station 50+29 Top of Rock Elev. 612.10 ft
Offset 7.80ft Rt. Begin Core Elev. 602.10 ft

Ground Surface Elev. 636.6 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
					Gray Massive Shale (continued)
584.10					Void - Lost Circulation
-55					
-60					
-65					
-70					

Color pictures of the cores No
Cores will be stored for examination until Job Completion
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



ROCK CORE LOG

Date 4/29/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA

SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM,
GPS:

COUNTY Vermilion CORING METHOD Rotary Core With Water Flush

STRUCT. NO. 092-0087 CORING BARREL TYPE & SIZE BWD4
Station 52+12.89 (Tilton Rd.)

BORING NO. 1 North Abut. Core Diameter 1.6 in
Station 50+29 Top of Rock Elev. 612.10 ft
Offset 7.80ft Rt. Begin Core Elev. 602.10 ft

Ground Surface Elev. 636.6 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
					Void - Lost Circulation (continued)
563.60					Void - Minor Resistance in Drilling
-75					
-80					
-85					
-90					End of Boring

Color pictures of the cores No
Cores will be stored for examination until Job Completion
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

MODEL Dwg1.dwg FILE NAME: P:\2003\1811803\004_CADD - DWG\14.dwg STRUCT: 092-0204-90922-034 - Boring.dgn



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CHECKED - BWP
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PLOT DATE = 8/4/2020

DESIGNED - DRA
CHECKED - BWP
REVISOR -
REVISION -

DESIGNED - DRA
CHECKED - BWP
REVISOR -
REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0204

SHEET 34 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	89
CONTRACT NO. 90922			ILLINOIS FED. AID PROJECT	

Note:
Boring 2 location along proposed alignment is Sta. 225+13.39, Offset 25.0 ft Lt.



SOIL BORING LOG

Date 4/30/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA
 SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM
 COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	BORING NO.	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After Hrs.
092-0087 Station 52+12.89 (Tilton Rd.)	2 Median Station 52+15 Offset 25.0 ft Rt. Ground Surface Elev. 615.1 ft	615.1				Gray/Brown Mottled Silty Clay Loam						
		611.1	1			Gray Massive Shale						
		-5	8		14							
		605.1				Borehole continued with rock coring.						
		-10										
		-15										
		-20										

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



ROCK CORE LOG

Date 4/30/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA
 SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM
 COUNTY Vermilion CORING METHOD Rotary Core With Water Flush

STRUCT. NO.	BORING NO.	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
092-0087 Station 52+12.89 (Tilton Rd.)	2 Median Station 52+15 Offset 25.0ft Rt. Ground Surface Elev. 615.1 ft	BWD4 Core Diameter 1.6 in Top of Rock Elev. 610.60 ft Begin Core Elev. 600.60 ft	605.10					
			-15	1	0	0	6	
		(9% Moisture)	-20	2	46	37	5	9
		(9% Moisture)	-25	3	36	10	16	12
		(10% Moisture)	-30	4	100	82	6	18

Color pictures of the cores No
 Cores will be stored for examination until Job Completion
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

MODEL D:\64\11
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 10/18/2007 11:47:59 AM S:\SOILBORING LOGS\VERMILION CNTY\0920087.GPJ



USER NAME = nparajuli
 DESIGNED - DRA
 CHECKED - BWP
 PLOT SCALE = 0:2.0000 " = 1 in.
 PLOT DATE = 8/4/2020

REVISOR -
 REVISION -
 DRAWN - DRA
 CHECKED - BWP

DESIGNED - DRA
 CHECKED - BWP
 REVISOR -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 STRUCTURE NO. 092-0204

SHEET 35 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	90
CONTRACT NO. 90922				

ILLINOIS FED. AID PROJECT

Note:
Boring 2 location along proposed alignment is Sta. 225+13.39, Offset 25.0 ft Lt.



ROCK CORE LOG

Date 4/30/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA

SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM,

COUNTY Vermilion CORING METHOD Rotary Core With Water Flush GPS:

STRUCT. NO. 092-0087 CORING BARREL TYPE & SIZE BWD4
 Station 52+12.89 (Tilton Rd.)
 BORING NO. 2 Median Core Diameter 1.6 in
 Station 52+15 Top of Rock Elev. 610.60 ft
 Offset 25.00ft Rt. Begin Core Elev. 600.60 ft
 Ground Surface Elev. 615.1 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray Massive Shale (continued)					
-35	5	40	40	4	8
(12% Moisture)					
575.10	6	0	0	5	
Core Stuck in Sampler - Core Destroyed During Removal					
End of Boring					
-45					
-50					

Color pictures of the cores No
 Cores will be stored for examination until Job Completion
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

MODEL: Dwg.rvt FILE NAME: P:\2003\1811803\1804_CADD - DWG\14.dwg STRUCT: 092-0204-90922-036_Borings.dgn



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USER NAME = nparajuli	DESIGNED - DRA	REVISD -
CHECKED - BWP	DRAWN - DRA	REVISD -
PLOT SCALE = 0:2.0000 " = 1 in.	CHECKED - BWP	REVISD -
PLOT DATE = 8/4/2020		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0204

SHEET 36 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	91
CONTRACT NO. 90922				

ILLINOIS FED. AID PROJECT

Note:
Boring 3 location along proposed alignment is Sta. 223+33.39, Offset 6.0 ft Rt.



ROCK CORE LOG

Date 5/9/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA

SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM,
GPS:

COUNTY Vermilion CORING METHOD Rotary Core With Water Flush

STRUCT. NO. 092-0087 CORING BARREL TYPE & SIZE BWD4

Station 52+12.89 (Tilton Rd.)

Core Diameter 1.6 in

BORING NO. 3 South Abut.

Top of Rock Elev. 615.60 ft

Station 53+95

Begin Core Elev. 606.60 ft

Offset 6.00ft Lt.

Ground Surface Elev. 636.1 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray Massive Shale (continued)						
Drilled Stiffer						
	-50					
	-55					
	579.10					
Gray Shale with Coal Seams						
	576.10	-60				
Gray Shale						
	574.10					
Black Coal						
	-65					

Color pictures of the cores No
 Cores will be stored for examination until Job Completion
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)



ROCK CORE LOG

Date 5/9/03

ROUTE FAI-74 DESCRIPTION Tilton Road over I-74 LOGGED BY CNA

SECTION (91-11HB-4)BR LOCATION SE, SEC. 18, TWP. 19N, RNG. 11W, 2nd PM,
GPS:

COUNTY Vermilion CORING METHOD Rotary Core With Water Flush

STRUCT. NO. 092-0087 CORING BARREL TYPE & SIZE BWD4

Station 52+12.89 (Tilton Rd.)

Core Diameter 1.6 in

BORING NO. 3 South Abut.

Top of Rock Elev. 615.60 ft

Station 53+95

Begin Core Elev. 606.60 ft

Offset 6.00ft Lt.

Ground Surface Elev. 636.1 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Black Coal (continued)						
	569.10					
Gray Shale & Coal Mixed						
	-70					
	-75					
	561.10	-75				
End of Boring						
	-80					
	-85					

Color pictures of the cores No
 Cores will be stored for examination until Job Completion
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

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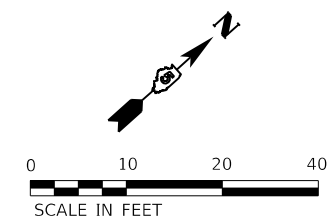
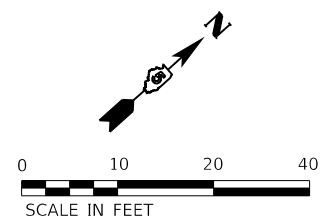
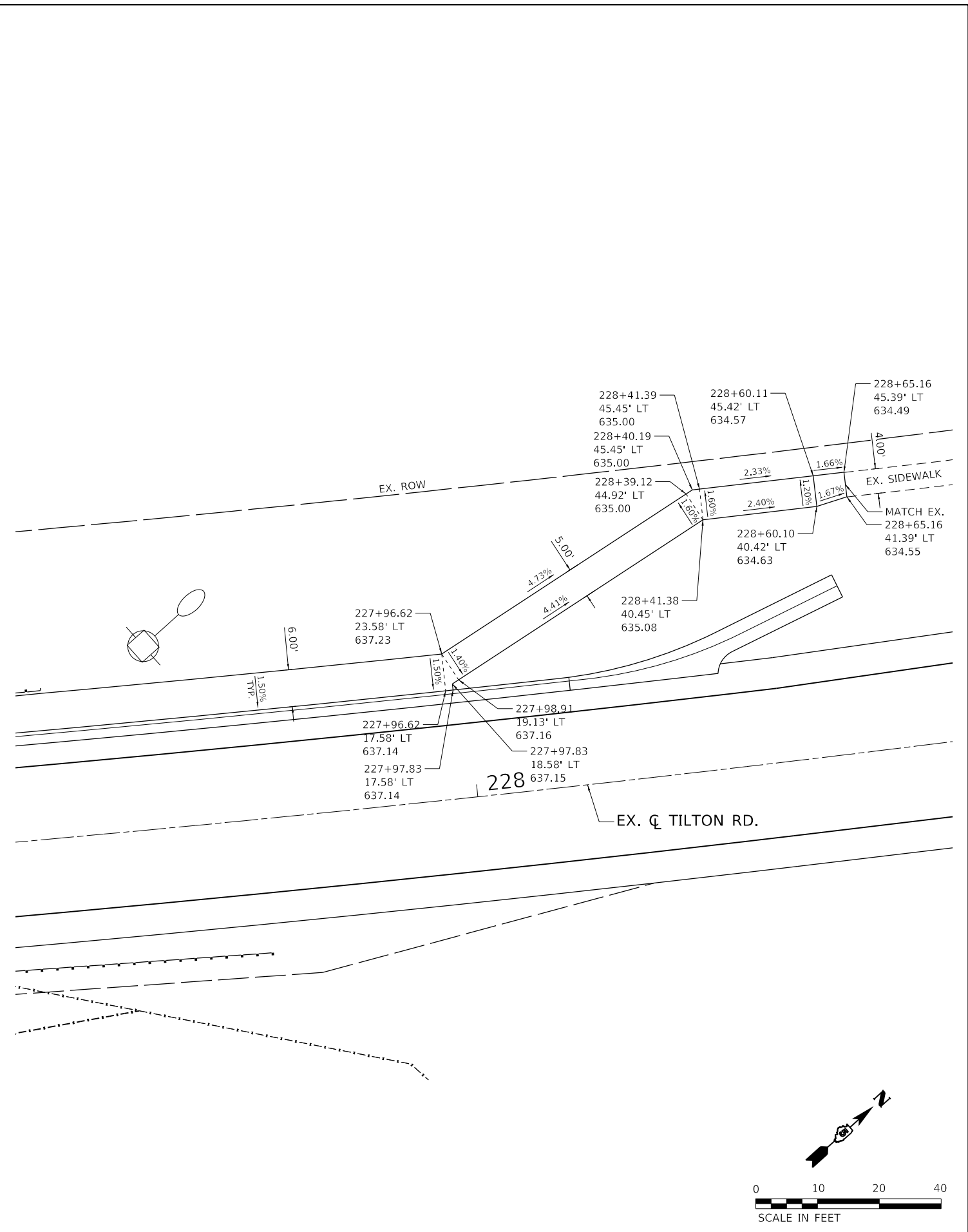
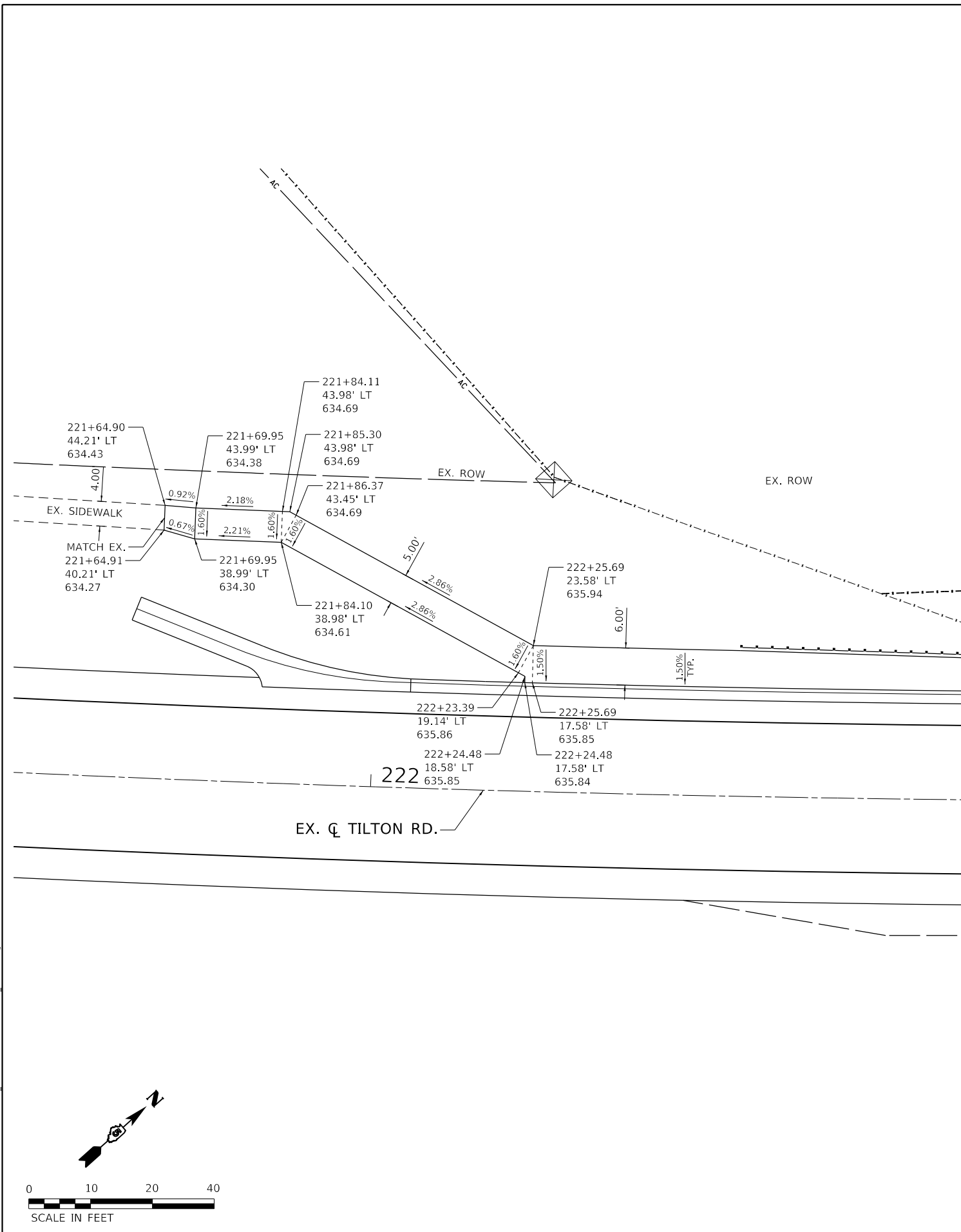
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	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0204

SHEET 38 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	93
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



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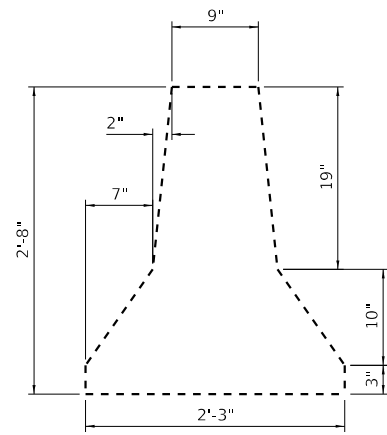


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DRAWN - JWS	REVISIONS -	
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PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

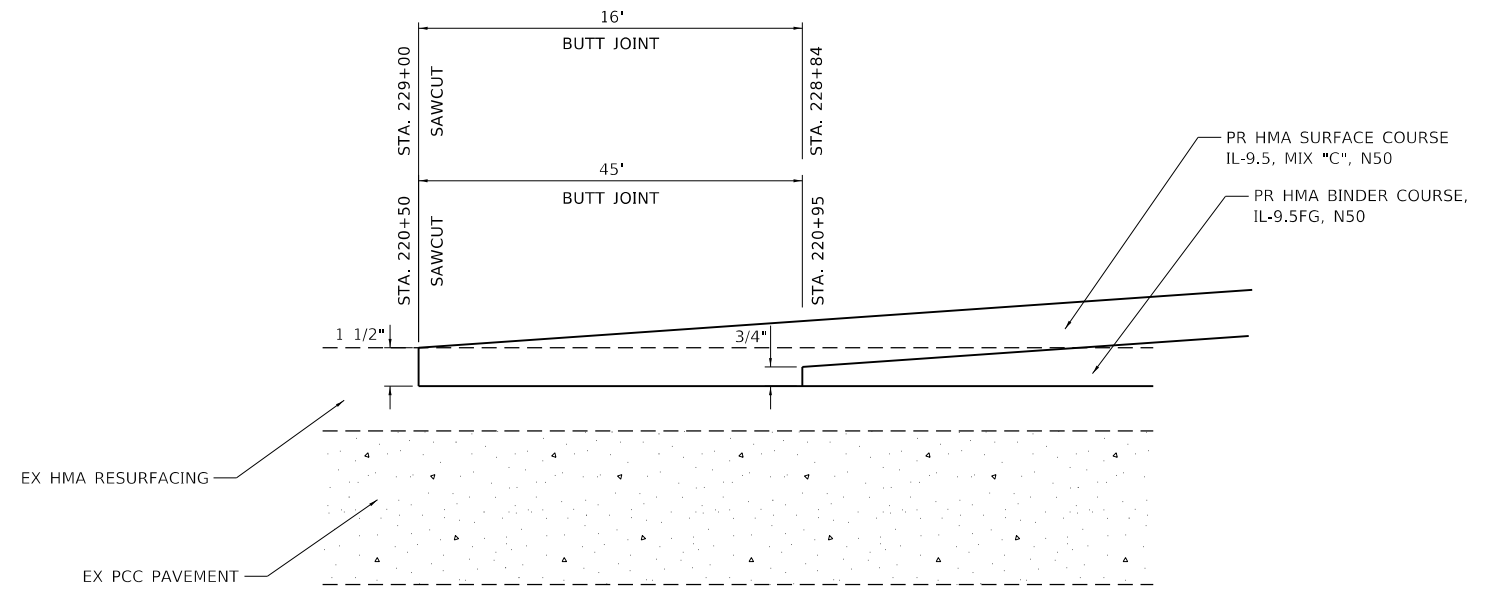
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS
 SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

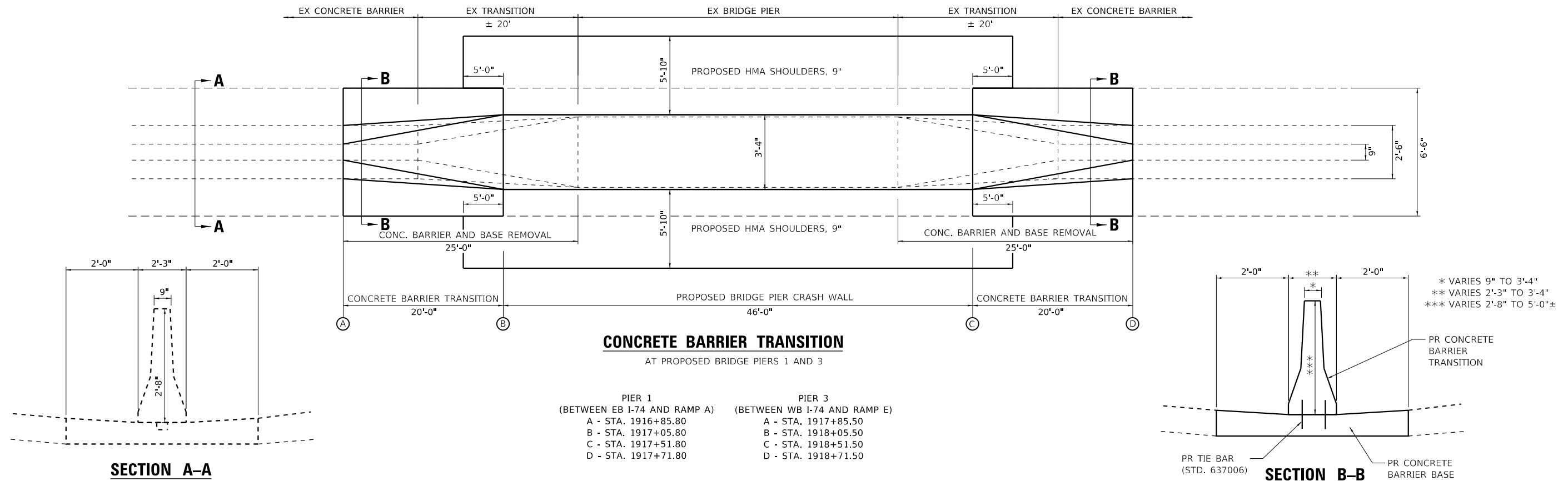
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	94
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



EXISTING CONCRETE BARRIER DETAIL



BUTT JOINT DETAIL



SECTION A-A

SECTION B-B

CONCRETE BARRIER TRANSITION
AT PROPOSED BRIDGE PIERS 1 AND 3

- | | |
|--|--|
| PIER 1
(BETWEEN EB I-74 AND RAMP A) | PIER 3
(BETWEEN WB I-74 AND RAMP E) |
| A - STA. 1916+85.80 | A - STA. 1917+85.50 |
| B - STA. 1917+05.80 | B - STA. 1918+05.50 |
| C - STA. 1917+51.80 | C - STA. 1918+51.50 |
| D - STA. 1917+71.80 | D - STA. 1918+71.50 |

* VARIES 9" TO 3'-4"
** VARIES 2'-3" TO 3'-4"
*** VARIES 2'-8" TO 5'-0"±

MODEL: D:\64bit... FILE NAME: P:\2018\118032404_CADD... DWG: 14.7_TranCAD_Sheets\059022-shc-mkcdt01.dgn



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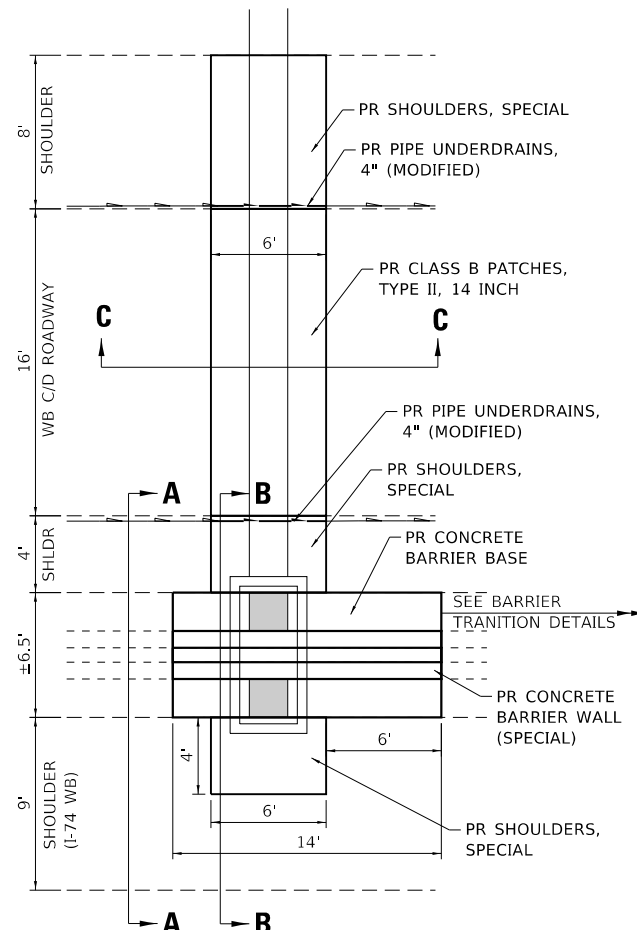
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	DATE - AUGUST 2020	REVISED -

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DEPARTMENT OF TRANSPORTATION**

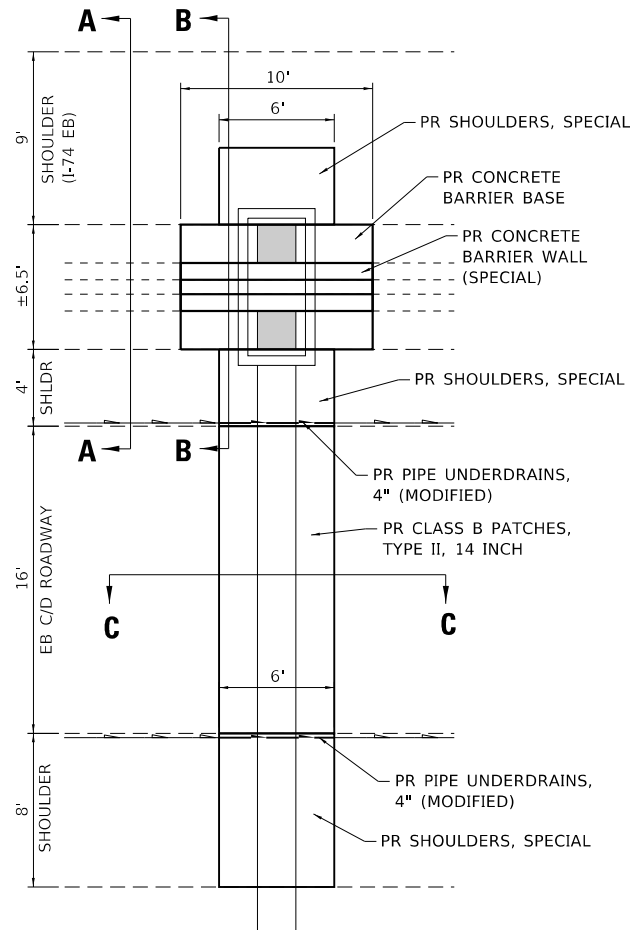
BUTT JOINT AND CONCRETE BARRIER TRANSITION DETAILS

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

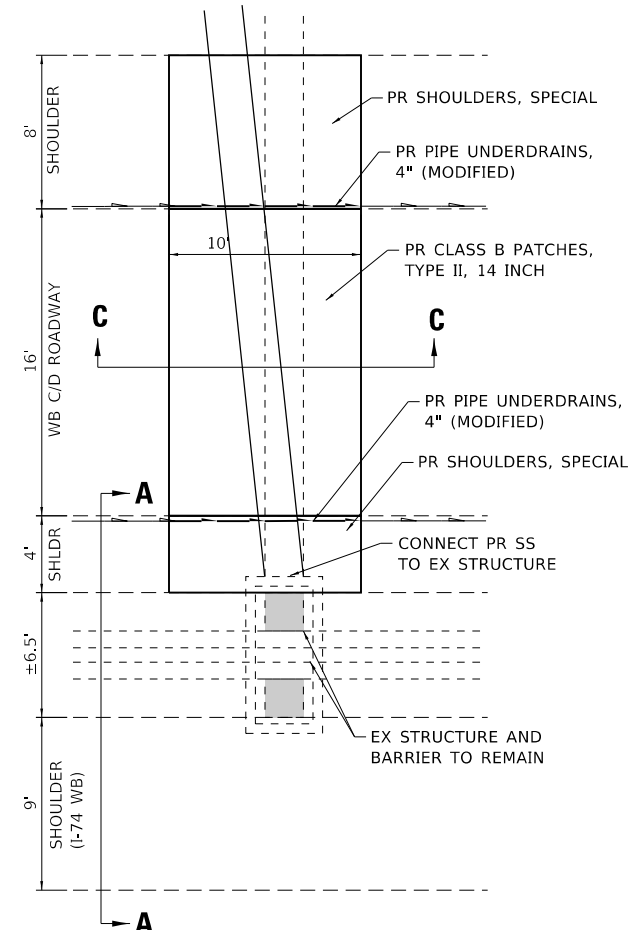
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	95
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



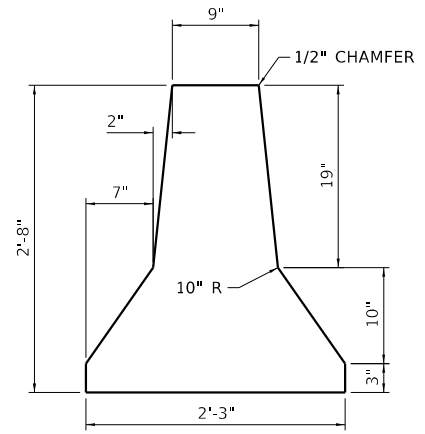
STA. 1917 + 76.33 - WB



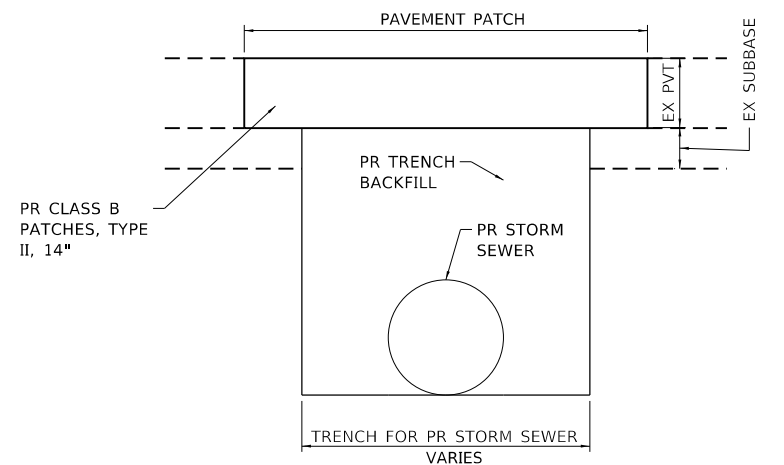
STA. 1918 + 08.15 - EB



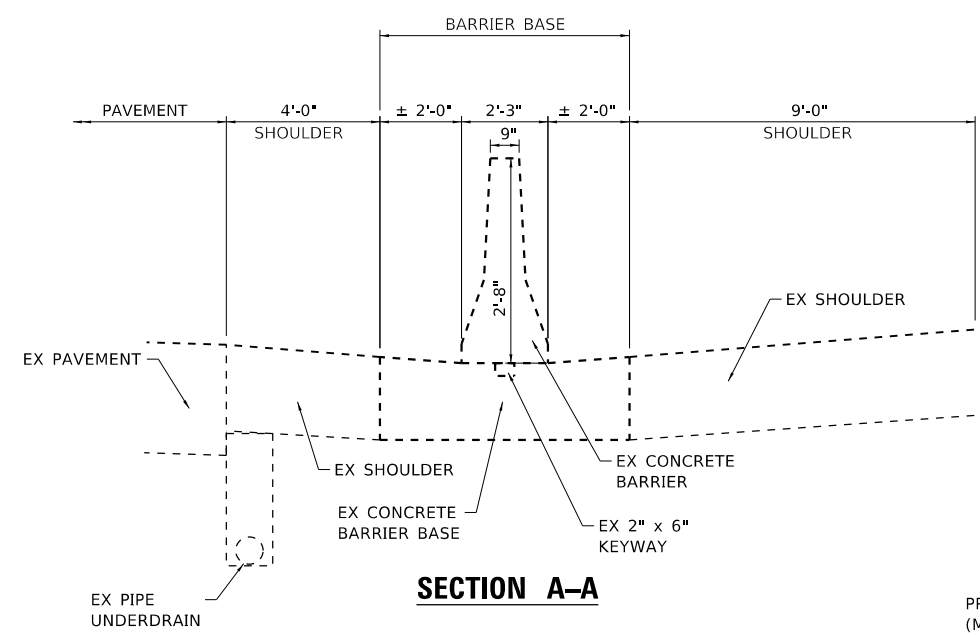
STA. 1919 + 60 - WB



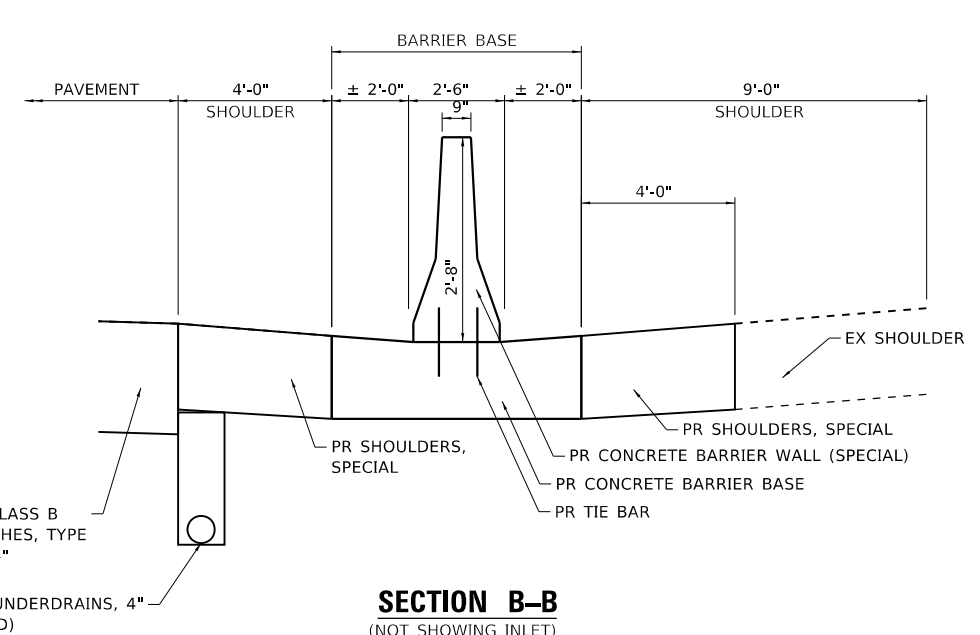
CONCRETE BARRIER WALL (SPECIAL) DETAIL



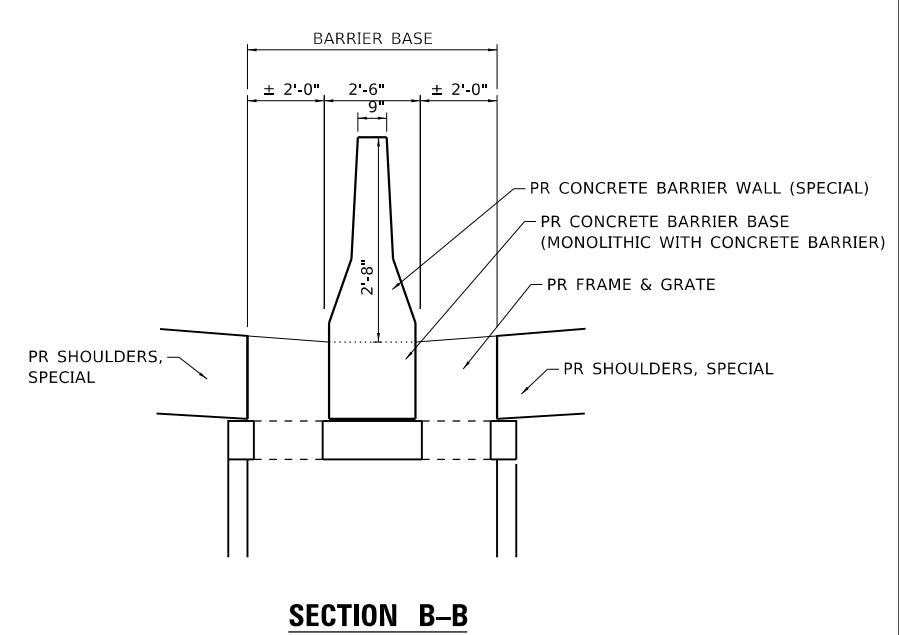
SECTION C-C



SECTION A-A



**SECTION B-B
(NOT SHOWING INLET)**



**SECTION B-B
(SHOWING INLET)**

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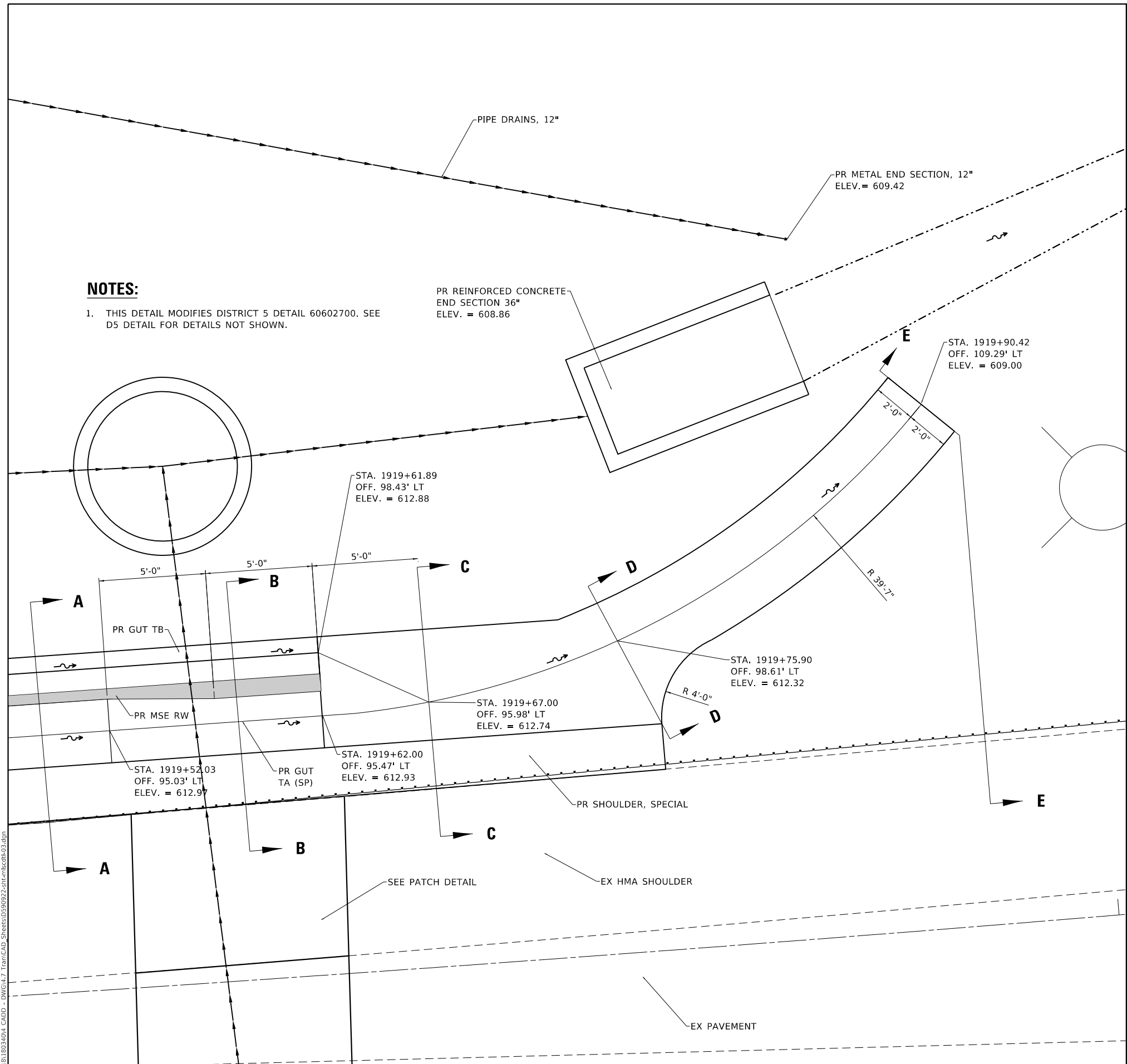
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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCH AND CONCRETE BARRIER WALL (SPECIAL) DETAILS

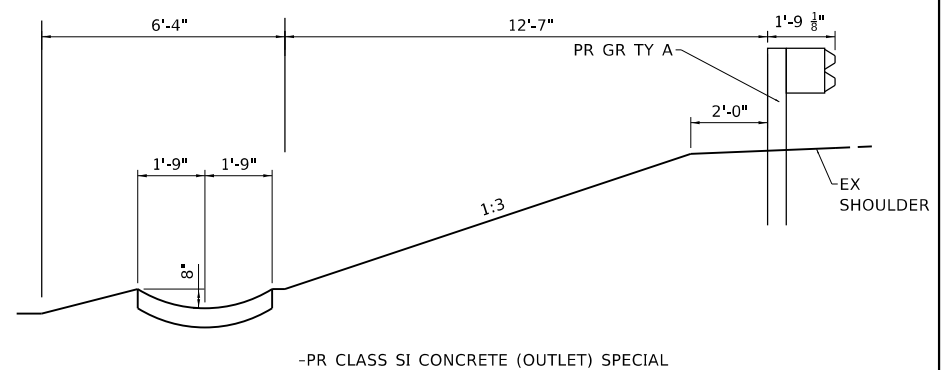
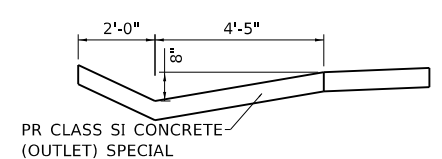
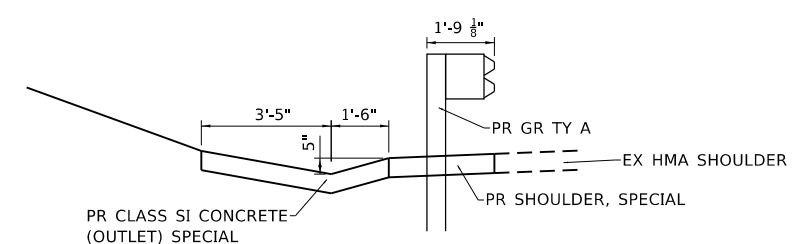
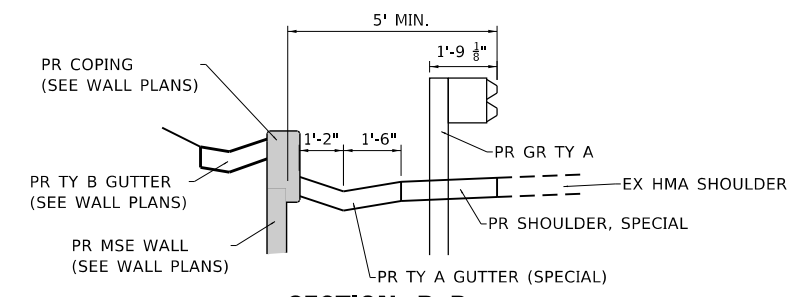
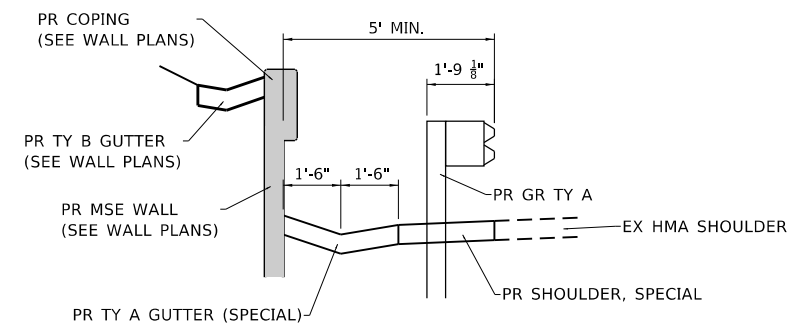
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	96
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



NOTES:

1. THIS DETAIL MODIFIES DISTRICT 5 DETAIL 60602700. SEE D5 DETAIL FOR DETAILS NOT SHOWN.



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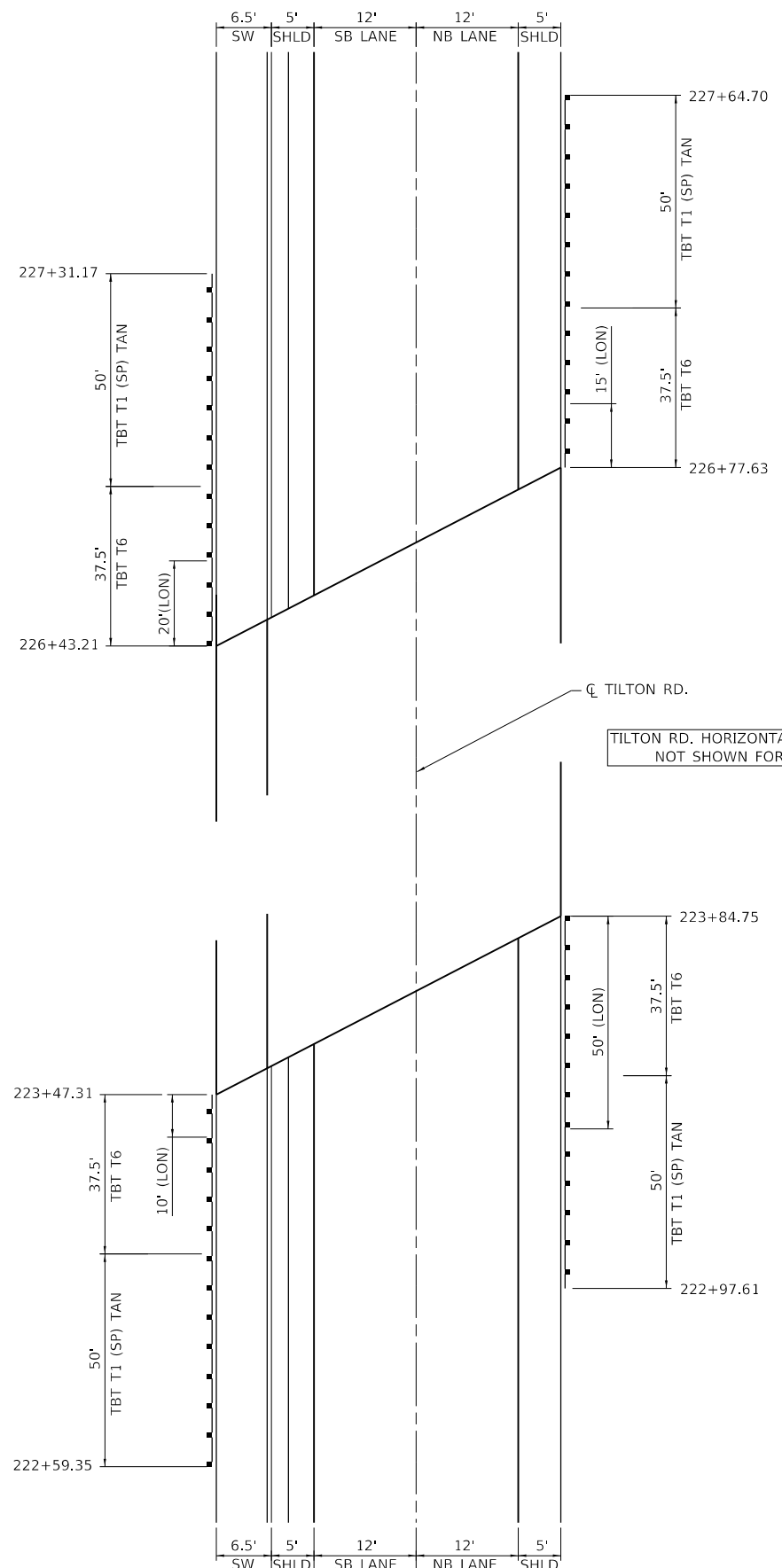
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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

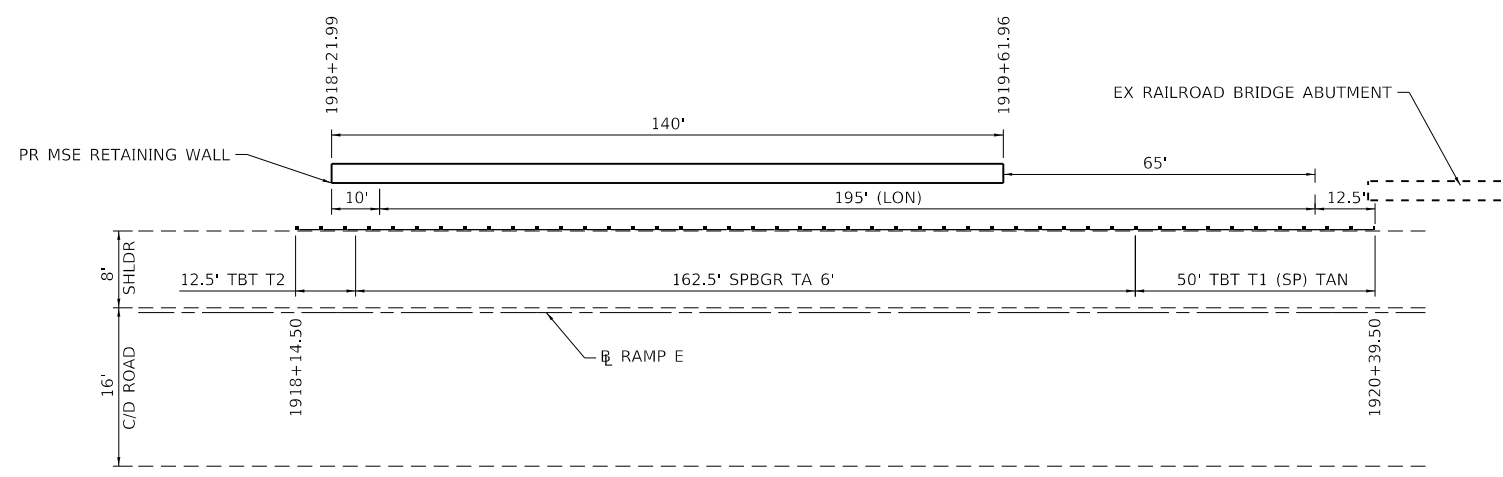
GUTTER OUTLET DETAIL

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

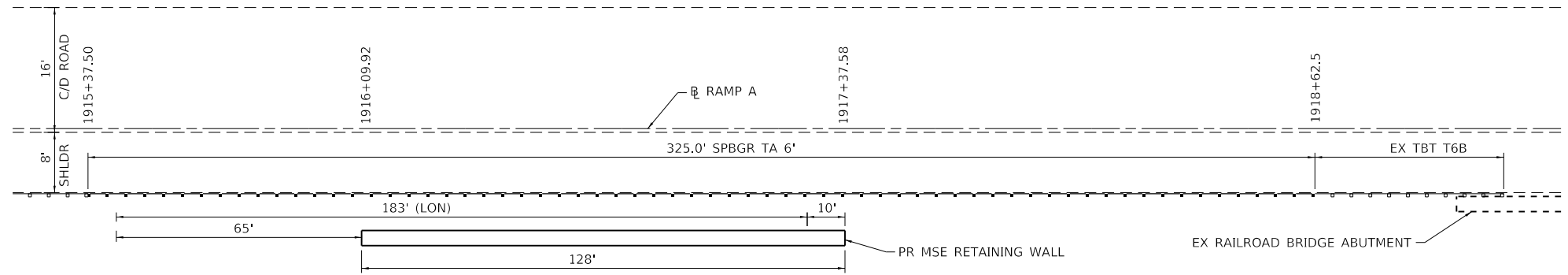
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	97
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



TILTON ROAD LAYOUT



IL 1 RAMP E (WB I-74 C/D ROAD) LAYOUT



IL 1 RAMP A (EB I-74 C/D ROAD) LAYOUT

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 LICENSE NO: 184-001220

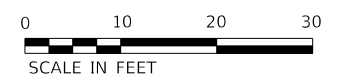
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PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL LAYOUT DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	98
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

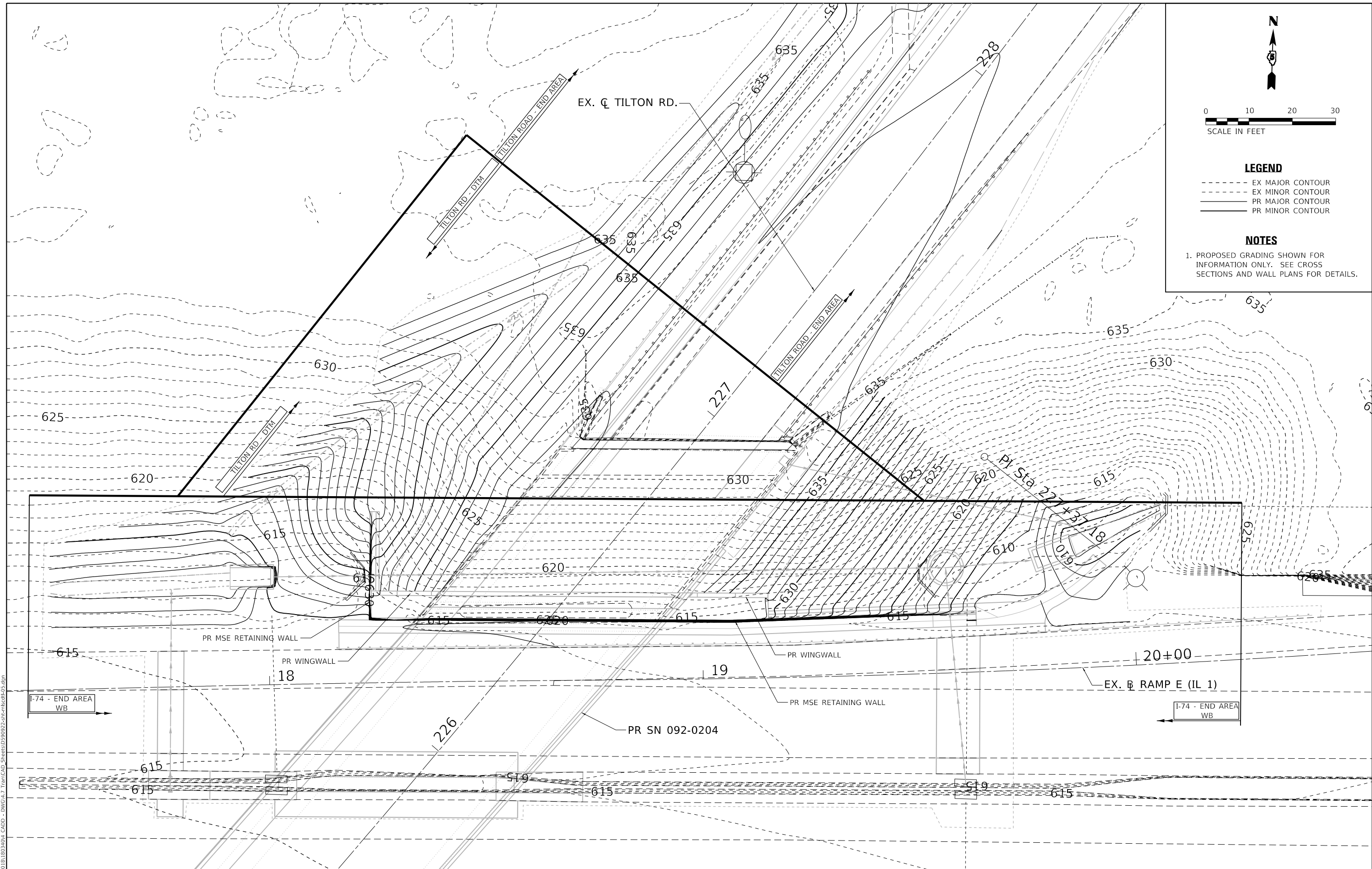


LEGEND

- - - EX MAJOR CONTOUR
- - - EX MINOR CONTOUR
- PR MAJOR CONTOUR
- PR MINOR CONTOUR

NOTES

1. PROPOSED GRADING SHOWN FOR INFORMATION ONLY. SEE CROSS SECTIONS AND WALL PLANS FOR DETAILS.



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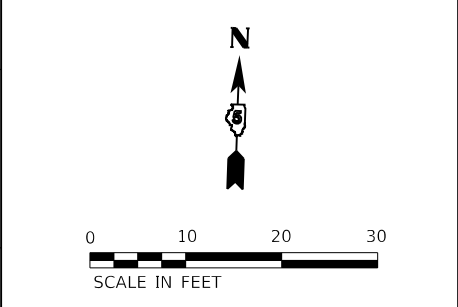
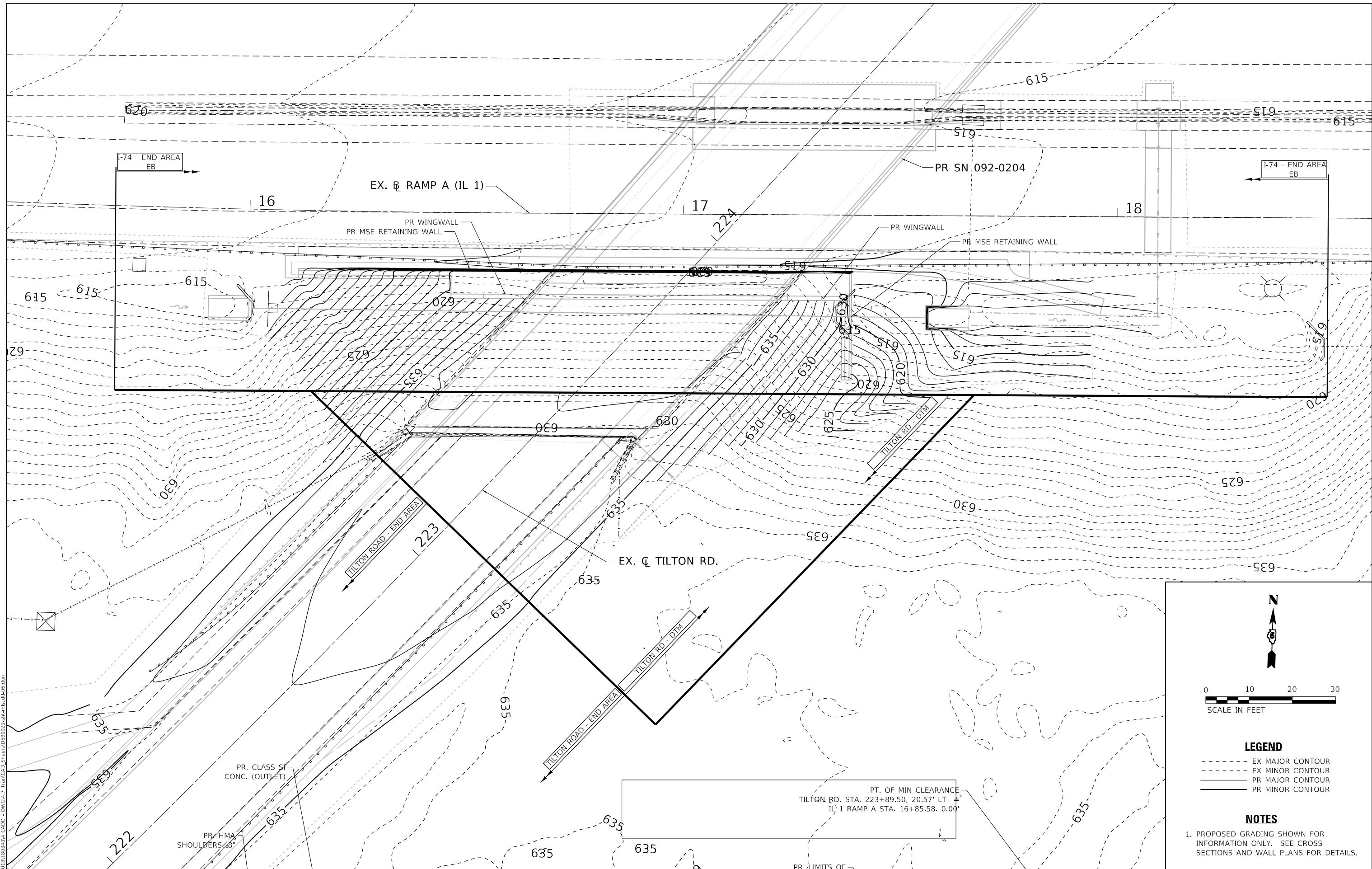
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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN
NORTH WALL**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	99
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				



- LEGEND**
- - - - EX MAJOR CONTOUR
 - - - - EX MINOR CONTOUR
 - — — PR MAJOR CONTOUR
 - — — PR MINOR CONTOUR

- NOTES**
1. PROPOSED GRADING SHOWN FOR INFORMATION ONLY. SEE CROSS SECTIONS AND WALL PLANS FOR DETAILS.

PT. OF MIN CLEARANCE
 TILTON RD. STA. 223+89.50, 20.57' LT ±
 IL 1 RAMP A STA. 16+85.58, 0.00'

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 WWW.TWM-INC.COM
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 LICENSE NO: 184-001220

USER NAME = jstein	DESIGNED - JWS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JWS	PREVIOUS
PLOT DATE = 8/4/2020	CHECKED - SJK	SIDEWALKS
	DATE - AUGUST 2020	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PR. TBT, TY 1
 (SPECIAL) TANGENT

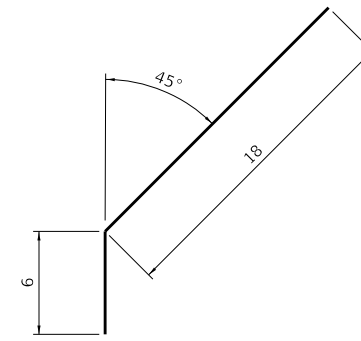
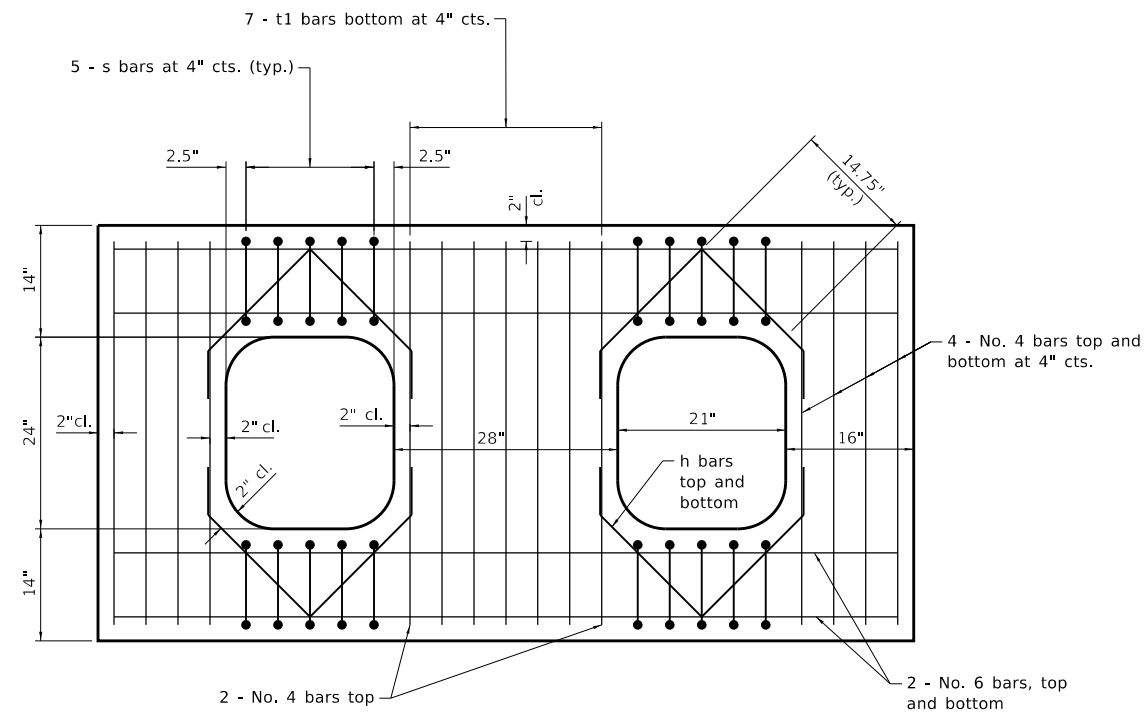
PR. LIMITS OF CONSTRUCTION (TYP.)

GRADING PLAN
SOUTH WALL

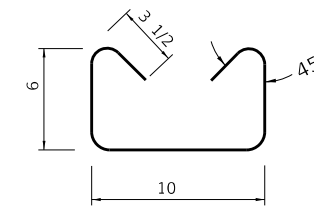
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	100
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

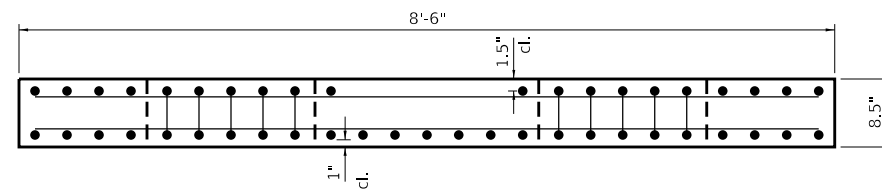
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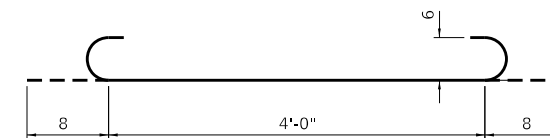
No. 4 Bar h



No. 3 Bar s



REINFORCED LID - TYPE 4



No. 6 Bar t1

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USER NAME = jstein	DESIGNED - JWS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - JWS	REVISED -
PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LID FOR DRAINAGE STRUCTURES, TYPE 4 SPECIAL DETAIL

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

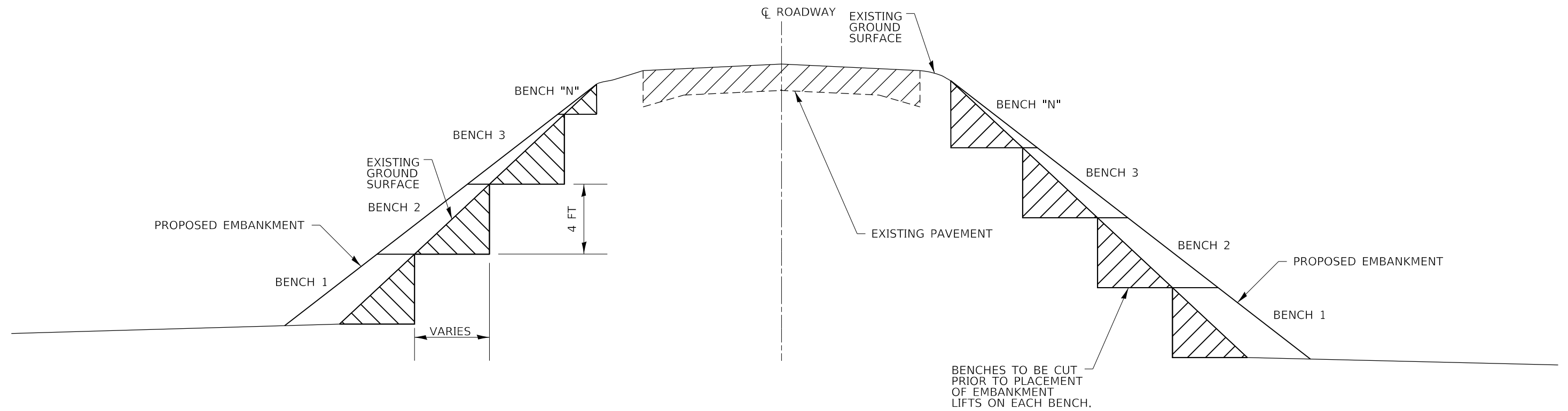
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	101
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

NOTES:
COST OF SOIL BENCHING INCIDENTAL TO CONTRACT.

EMBANKMENT SHALL BE BROUGHT UP BY STAGE ALONG WITH THE BENCHING AND COMPACTED PARALLEL TO THE BENCHES.

THE TOP 12" ± OF TILTON ROAD AND SURROUNDING AREA ARE ORGANIC/TOPSOIL AND IT IS RECOMMENDED TO BE SET ASIDE AND PLACED ON TOP OF THE SLOPES RATHER THAN INCORPORATED INTO THE INTERIOR OF THE SLOPES.

THE MOISTURE CONTENT OF THE MATERIAL IS HIGHER THAN OPTIMUM AND WILL NEED DRIED BY SPREADING AND DISKING PRIOR TO USE.



EXISTING SLOPE SOIL BENCHING DETAIL

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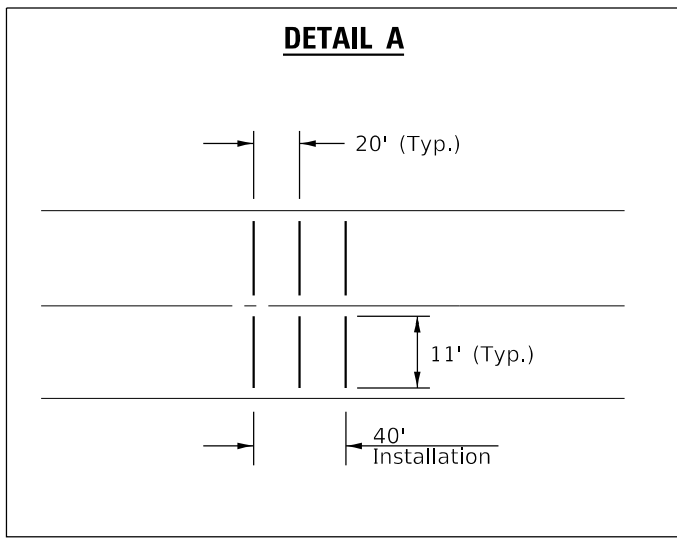
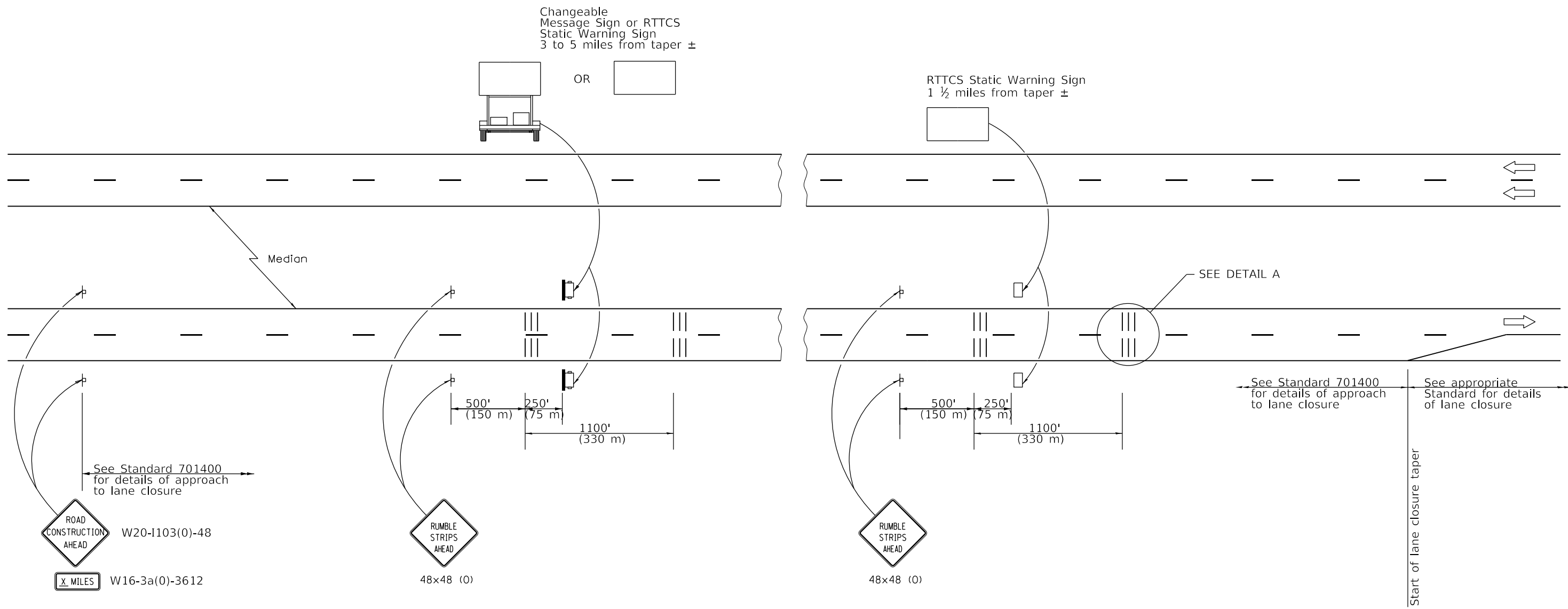
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BENCHING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	102
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



SYMBOLS

- † Sign
- ||| Temporary Rumble Strips (Special)
- ☐ Trailer Mounted Sign
- ☐ RTCS Static Warning Sign

GENERAL NOTES

Remove the Temporary Rumble Strips (Special) prior to the removal of the advanced warning signs.

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

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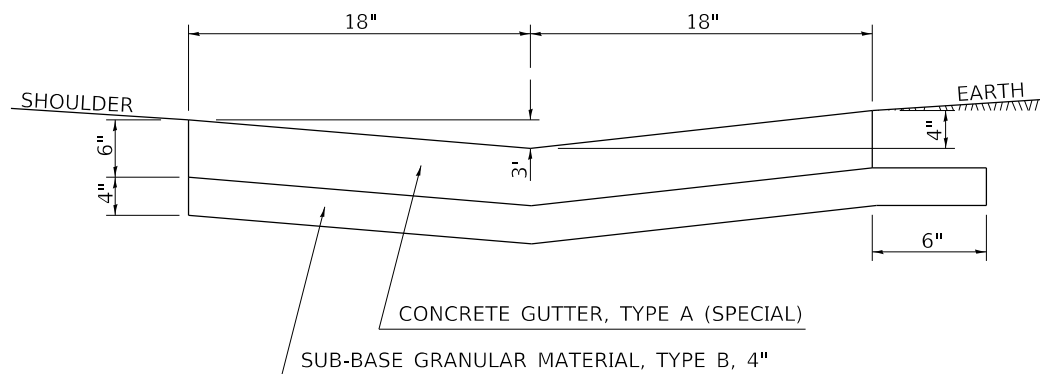
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	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

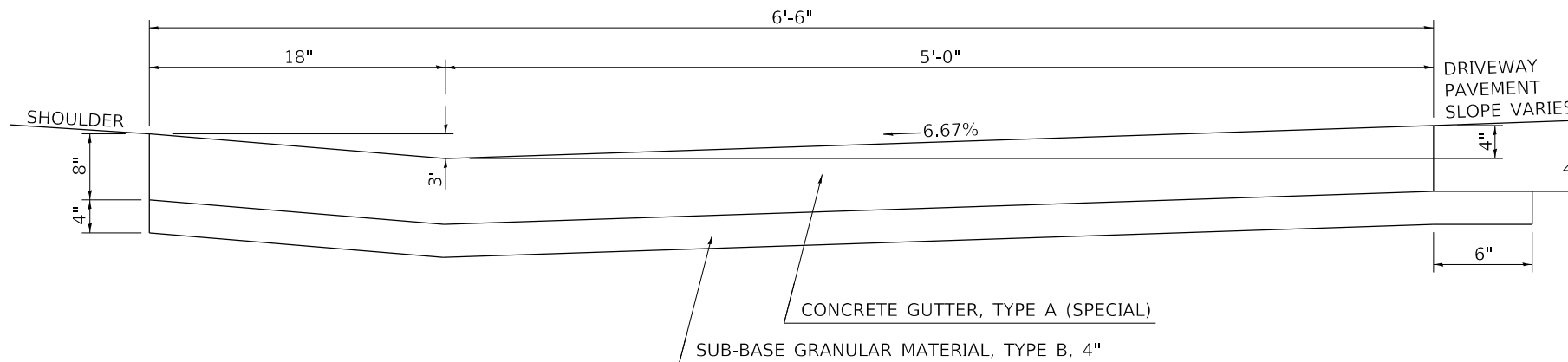
TEMPORARY RUMBLE STRIPS (SPECIAL) DETAIL			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	103
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

DIMENSIONS OF CONCRETE GUTTER, TYPE A (SPECIAL)



DETAIL OF SPECIAL TYPE A GUTTER THROUGH ENTRANCES



NOTES

This work shall consist of constructing a special Type A concrete gutter as specified herein, at the locations shown on the plans, and in accordance with the applicable portions of Section 606 of the Standard Specifications.

The proposed Concrete Gutter, Type A (Special) shall be constructed with the cross section shown on the details herein. The cross section for the Type A Gutter Special was specifically designed to:

- Maximize hydraulic capacity in the gutter section
- Minimize the entrance breakover between the Type A Gutter Entrance and the driveway pavement
- Improve ride quality through the Type A Gutter Entrance; therefore no changes in the gutter cross section will be allowed. In addition, all joints and reinforcing steel for Concrete Gutter, Type A (Special), shall conform to the details shown herein, the applicable details of Standard 606001, and the applicable portions of Section 606 of the Standard Specifications.

Sub-Base Granular Material, Type B 4" shall be constructed under the Type A Gutter (Special) and Type A Gutter Entrance.

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the P.C.C. pavement at side streets in accordance with details for longitudinal construction joint shown on Standard 420001. Longitudinal joint tie bars shall be No. 6 at 24" centers.

Two 1-1/4" x 18" dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

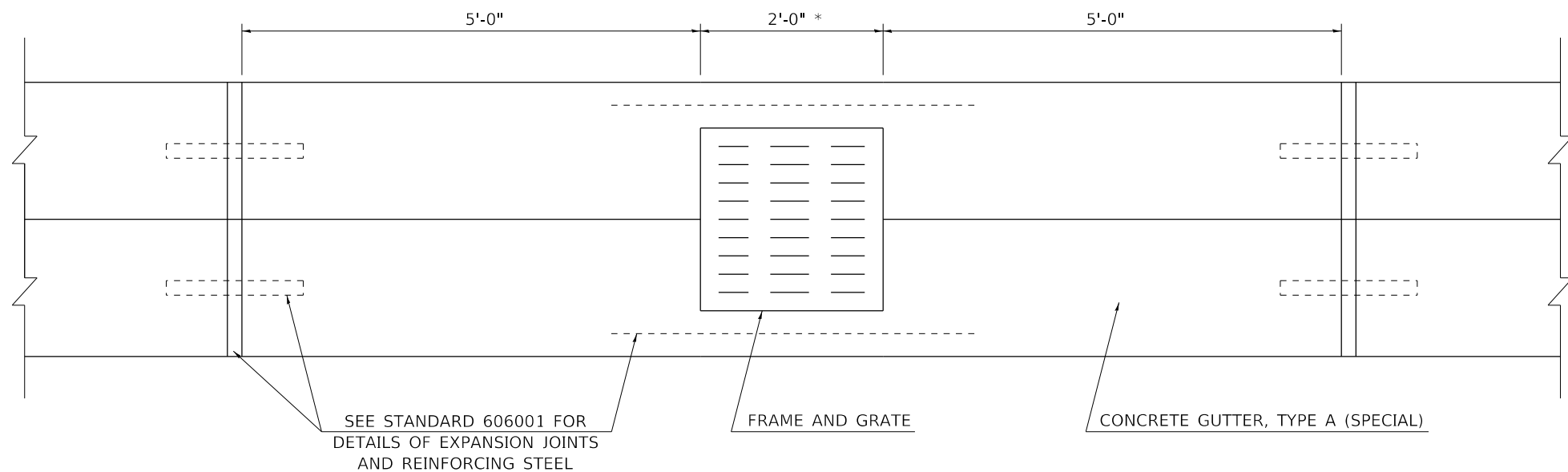
Concrete Gutter, Type A (Special) will be measured for payment in (feet) along the flow line of the gutter. Concrete inlets, entrances, and outlets along the gutter section will be measured for payment in place and the volume of concrete computed in (cubic yards).

This work will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (SPECIAL) of the dimensions specified. Concrete inlets, entrances, and outlets along the gutter section will be paid for as CLASS SI CONCRETE (OUTLET). These prices shall include all labor, equipment, and material necessary to complete the work as specified herein and as shown on the plans.

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

DISTRICT 5 DETAIL NO. 60602700(R)

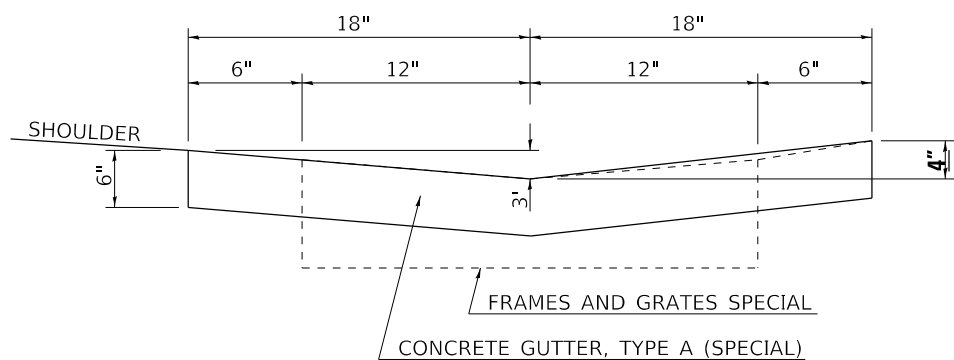
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	104
CONTRACT NO. 90922				



PLAN VIEW AT INLET LOCATIONS

* THIS DIMENSION WILL BE 5'-0" WHEN 6' MANHOLE SPECIAL AND 2 FRAMES AND GRATES ARE SPECIFIED.

SEE STANDARD 606001 FOR DETAILS OF EXPANSION JOINTS AND REINFORCING STEEL



SIDE VIEW AT INLET LOCATIONS

NOTE

Within the 5' section of gutter between the Expansion Joints and Frames and Grates, the gutter cross section shall be constructed to taper from the Concrete Gutter, Type A (Special) cross section to the Frames and Grates Special cross section.

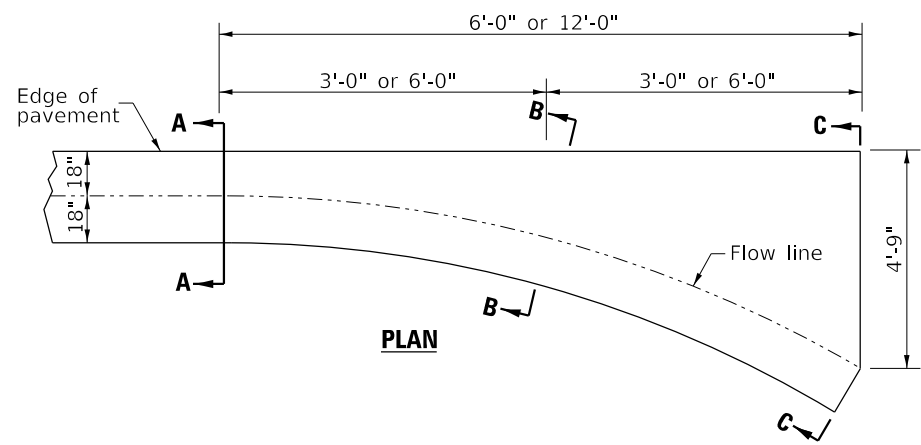
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	DATE -	REVISED -

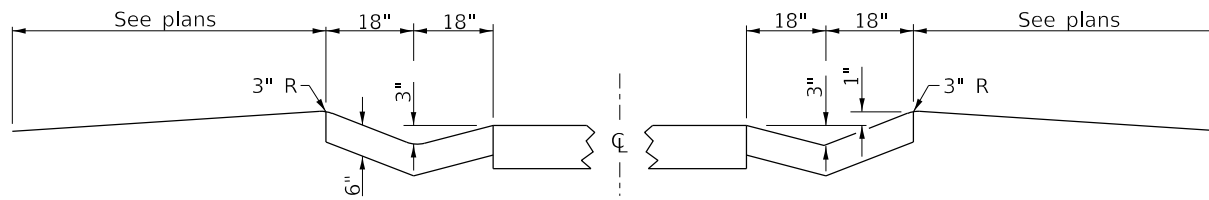
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONCRETE GUTTER, TYPE A (SPECIAL)

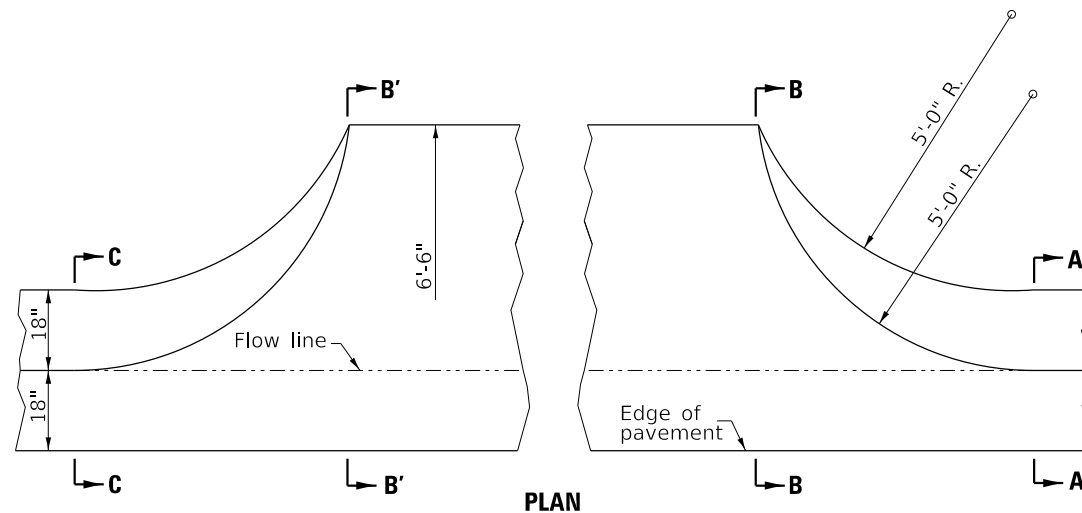
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.



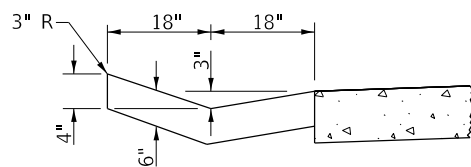
QUANTITY
 For 6'-0" Inlets
 Section C-C to Section A-A = 0.46 cu. yd.
 For 12'-0" Inlets
 Section C-C to A-A = 0.92 cu. yd.



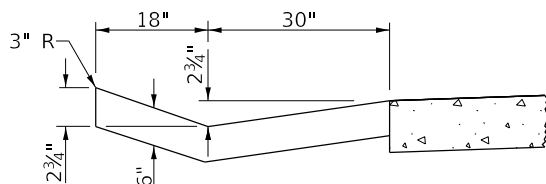
TYPE A GUTTER



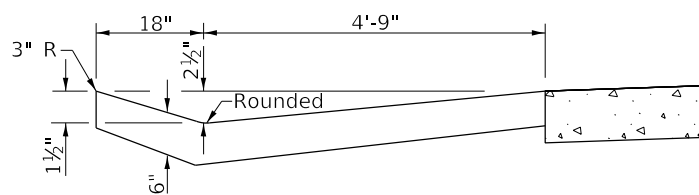
QUANTITY
 Section B'-B' to B-B = 0.16 cu. yd./ft.
 Section C-C to B'-B' + B'-B' to A-A = 0.96 cu. yd.



SECTION A-A

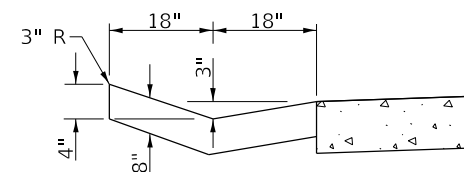


SECTION B-B

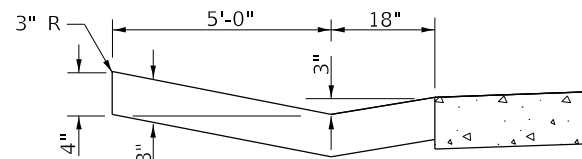


SECTION C-C

INLET



SECTION A-A & C-C



SECTION B-B & B'-B'

ENTRANCE

NOTES

This work shall consist of constructing a special Type A concrete gutter as specified herein, at the locations shown on the plans, and in accordance with the applicable portions of Section 606 of the Standard Specifications.

The proposed Concrete Gutter, Type A (Special) shall be constructed with the cross section shown on the details herein. The cross section for the Type A Gutter Special was specifically designed to:

- Maximize hydraulic capacity in the gutter section
- Minimize the entrance breakover between the Type A Gutter Entrance and the driveway pavement
- Improve ride quality through the Type A Gutter Entrance; therefore no changes in the gutter cross section will be allowed. In addition, all joints and reinforcing steel for Concrete Gutter, Type A (Special), shall conform to the details shown herein, the applicable details of Standard 606001, and the applicable portions of Section 606 of the Standard Specifications.

Sub-Base Granular Material, Type B 4" shall be constructed under the Type A Gutter (Special) and Type A Gutter Entrance.

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the P.C.C. pavement at side streets in accordance with details for longitudinal construction joint shown on Standard 420001. Longitudinal joint tie bars shall be No. 6 at 24" centers.

Two 1-1/4" x 18" dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

Concrete Gutter, Type A (Special) will be measured for payment in (feet) along the flow line of the gutter. Concrete inlets, entrances, and outlets along the gutter section will be measured for payment in place and the volume of concrete computed in (cubic yards).

This work will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (SPECIAL) of the dimensions specified. Concrete inlets, entrances, and outlets along the gutter section will be paid for as CLASS SI CONCRETE (OUTLET). These prices shall include all labor, equipment, and material necessary to complete the work as specified herein and as shown on the plans.

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

DISTRICT 5 DETAIL NO. 60602700(R)

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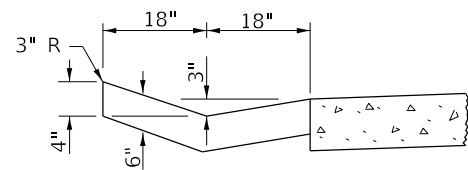
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

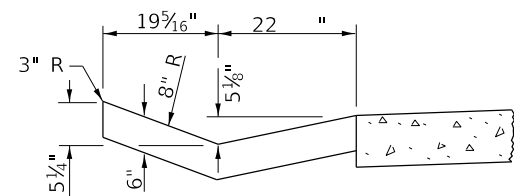
CONCRETE GUTTER, TYPE A (SPECIAL)

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	105
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				



SECTION A-A

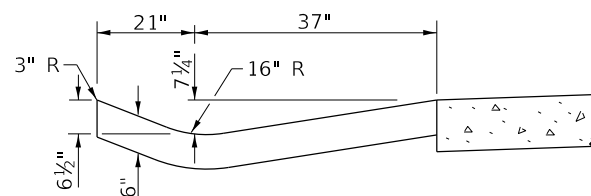


SECTION B-B

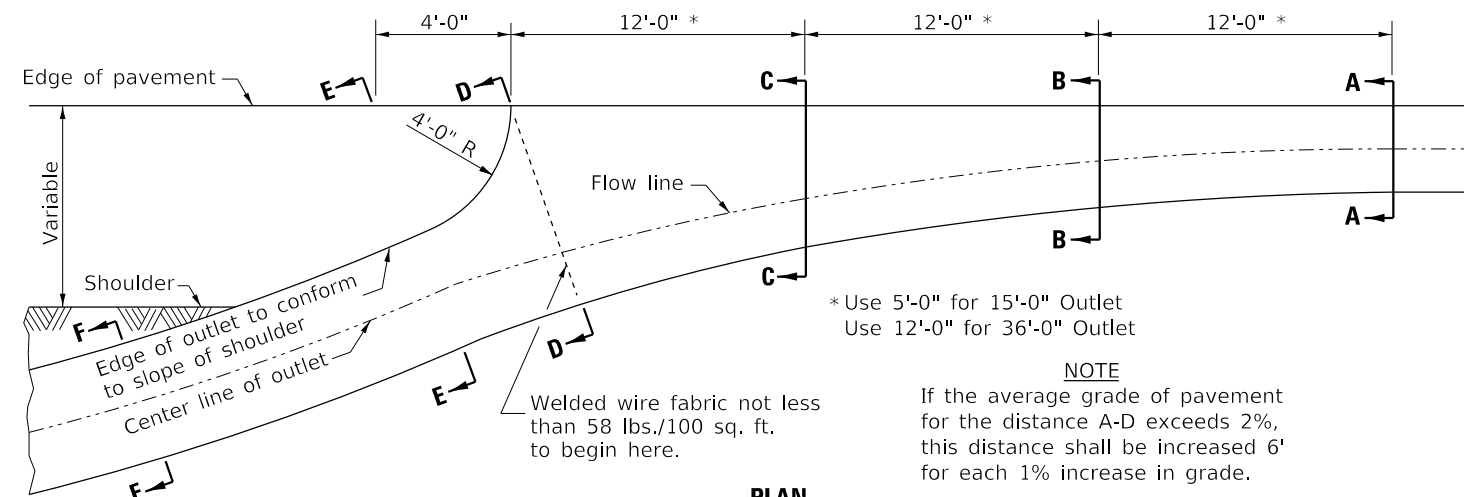
QUANTITY

* For 15'-0" Outlet
Section A-A to Section E-E
and Curtain Wall = 1.65 cu. yd. Concrete
Section F-F = 0.079 cu. yd./ft.

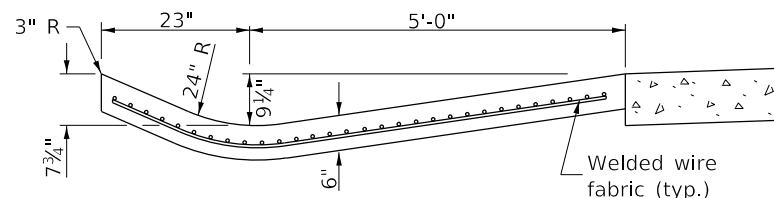
* For 36'-0" Outlet
Section A-A to Section E-E
and Curtain Wall = 3.53 cu. yd. Concrete
Section F-F = 0.079 cu. yd./ft.



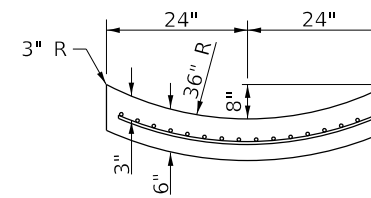
SECTION C-C



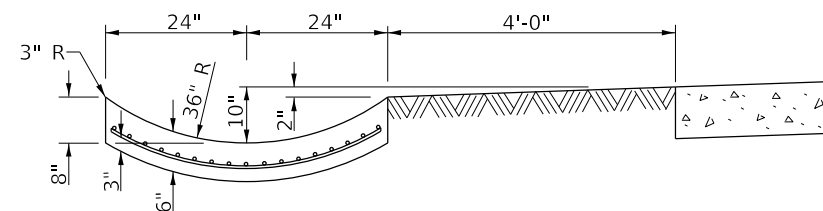
PLAN



SECTION D-D

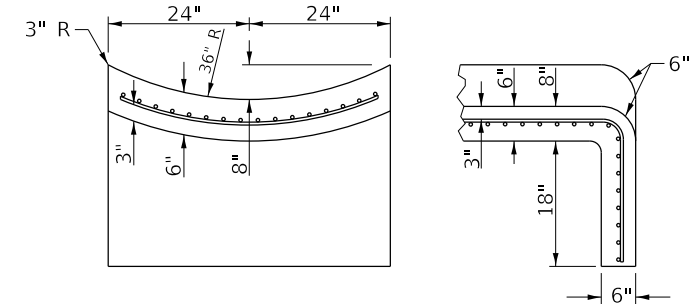


SECTION F-F



SECTION E-E

OUTLET



SECTIONS AT END OF OUTLET

NOTES

This work shall consist of constructing a special Type A concrete gutter as specified herein, at the locations shown on the plans, and in accordance with the applicable portions of Section 606 of the Standard Specifications.

The proposed Concrete Gutter, Type A (Special) shall be constructed with the cross section shown on the details herein. The cross section for the Type A Gutter Special was specifically designed to:

- Maximize hydraulic capacity in the gutter section
- Minimize the entrance breakover between the Type A Gutter Entrance and the driveway pavement
- Improve ride quality through the Type A Gutter Entrance; therefore no changes in the gutter cross section will be allowed. In addition, all joints and reinforcing steel for Concrete Gutter, Type A (Special), shall conform to the details shown herein, the applicable details of Standard 606001, and the applicable portions of Section 606 of the Standard Specifications.

Sub-Base Granular Material, Type B 4" shall be constructed under the Type A Gutter (Special) and Type A Gutter Entrance.

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the P.C.C. pavement at side streets in accordance with details for longitudinal construction joint shown on Standard 420001. Longitudinal joint tie bars shall be No. 6 at 24" centers.

Two 1-1/4" x 18" dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

Concrete Gutter, Type A (Special) will be measured for payment in (feet) along the flow line of the gutter. Concrete inlets, entrances, and outlets along the gutter section will be measured for payment in place and the volume of concrete computed in (cubic yards).

This work will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (SPECIAL) of the dimensions specified. Concrete inlets, entrances, and outlets along the gutter section will be paid for as CLASS SI CONCRETE (OUTLET). These prices shall include all labor, equipment, and material necessary to complete the work as specified herein and as shown on the plans.

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

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PLOT DATE = 8/4/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONCRETE GUTTER, TYPE A (SPECIAL)

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

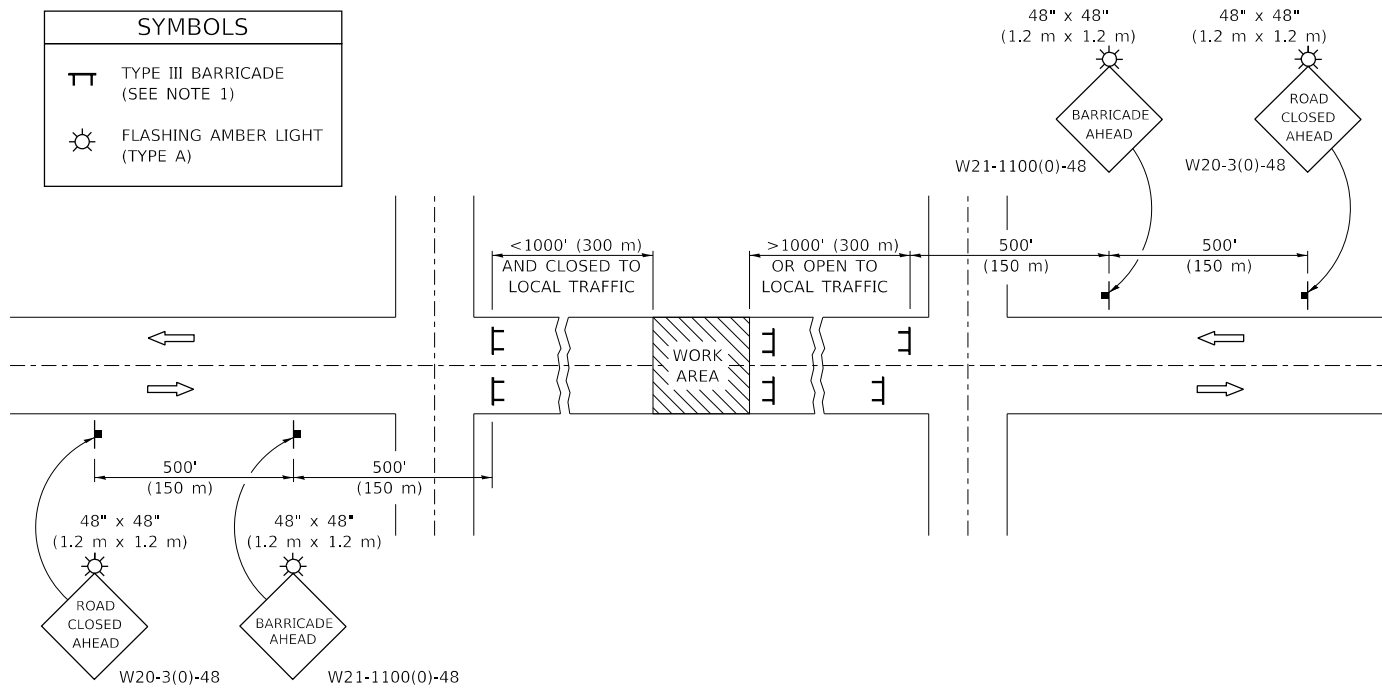
DISTRICT 5 DETAIL NO. 60602700(R)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	106
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

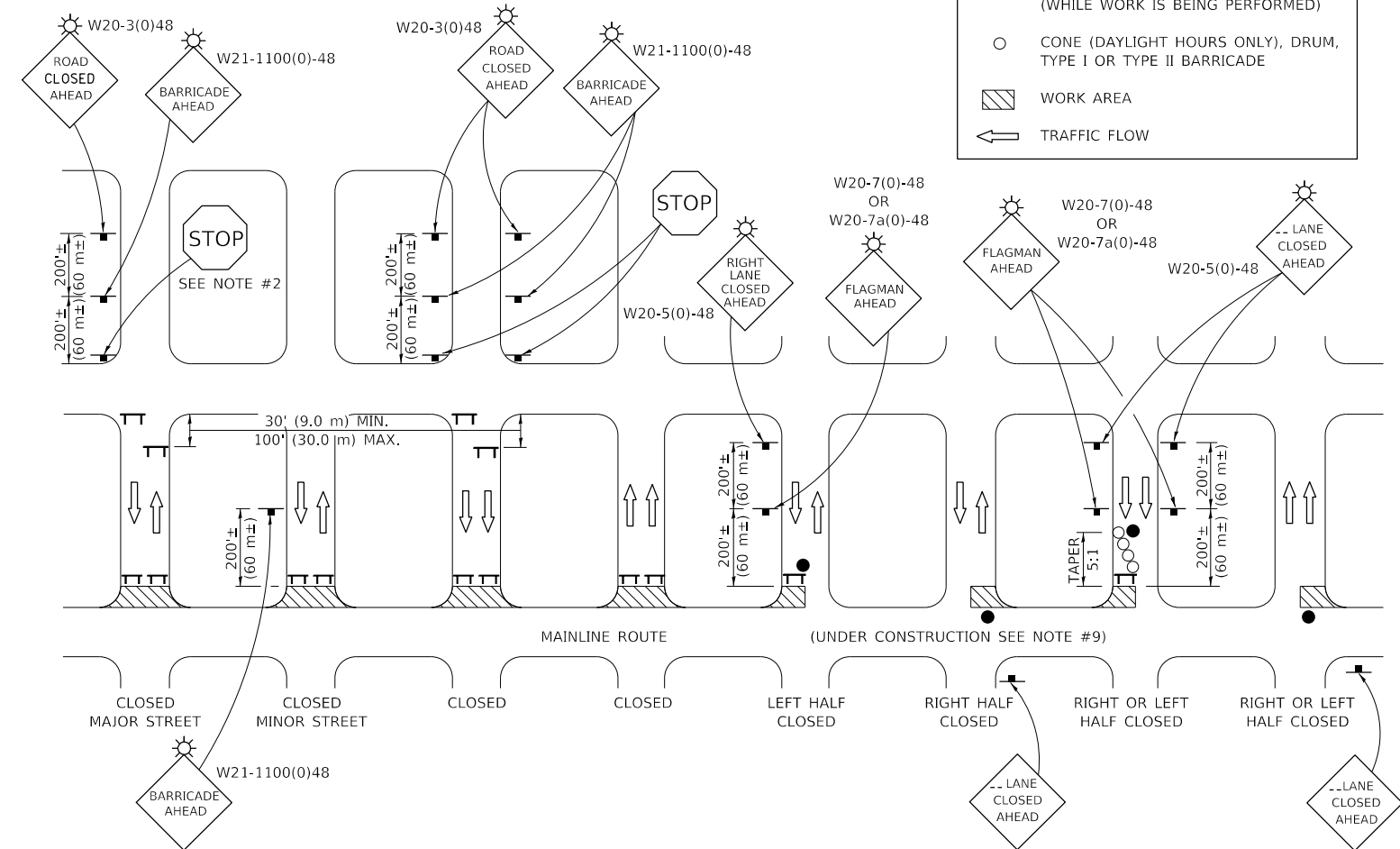
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

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

DISTRICT 5 DETAIL NO. 7020000

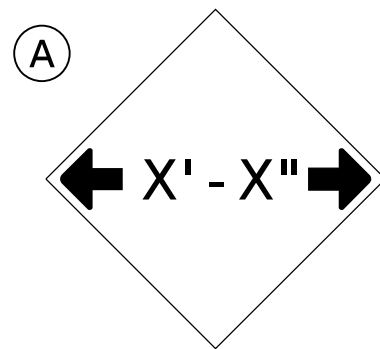
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD / STREET CLOSURES)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	107
CONTRACT NO. 90922				
ILLINOIS / FED. AID PROJECT				

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

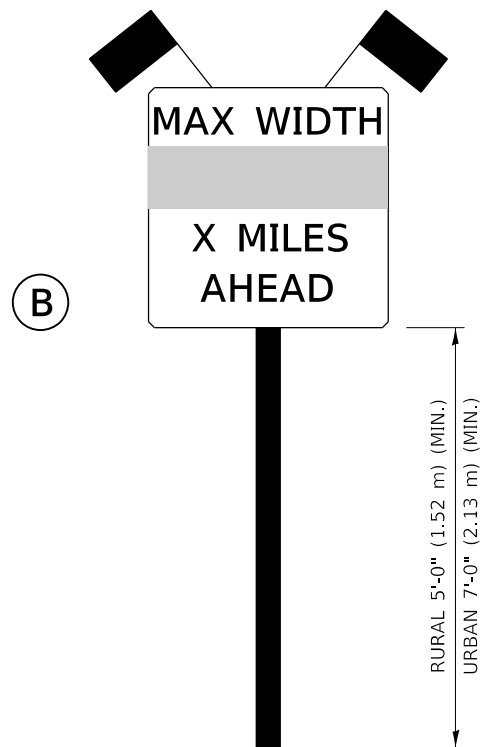
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PLOT DATE = 8/4/2020	DATE -	REVISED -



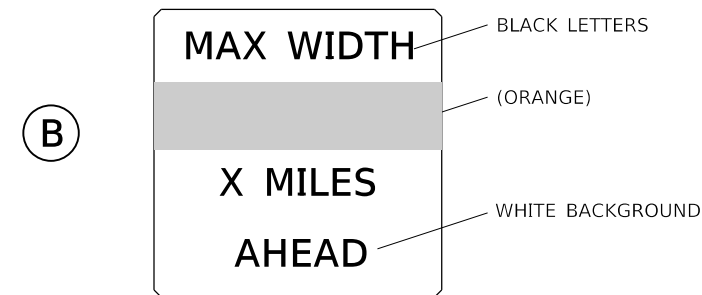
W12-2(O)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



**W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS**

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

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

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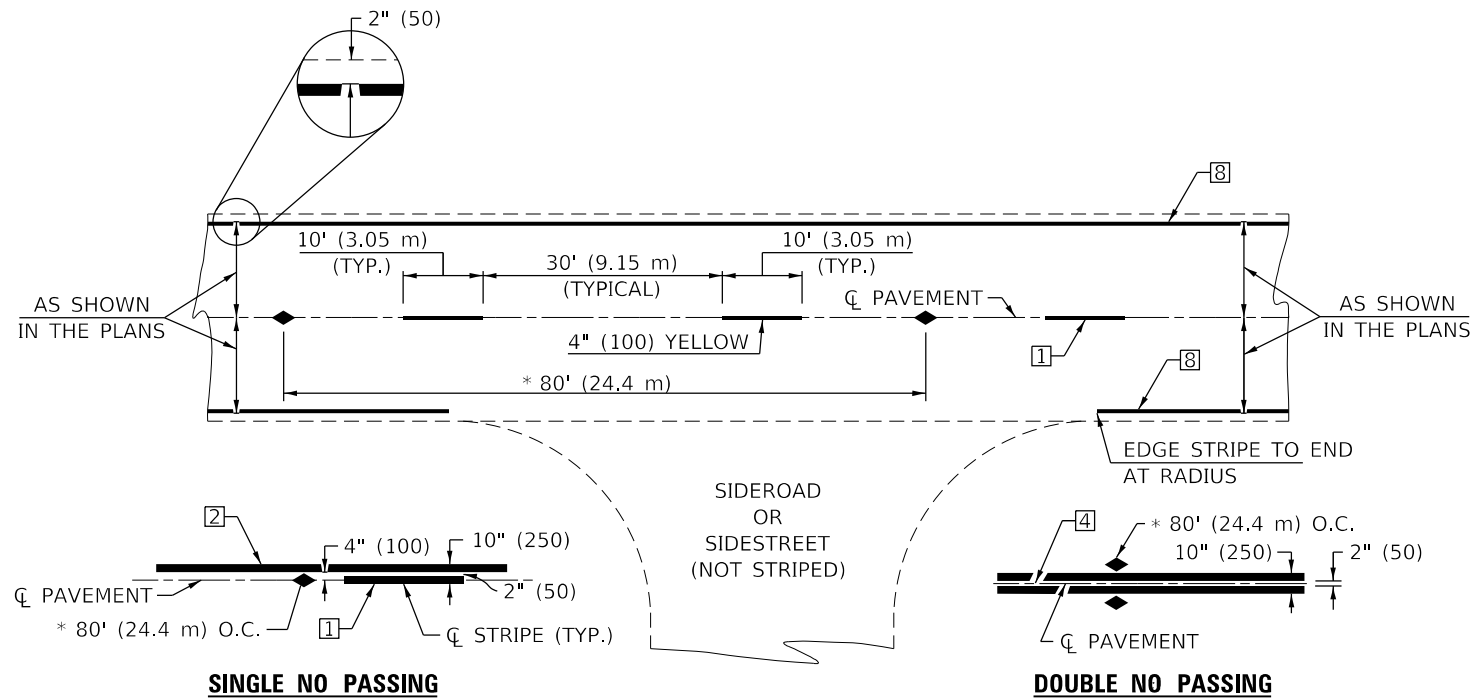
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING

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

DISTRICT 5 DETAIL NO. X7200201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	108
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

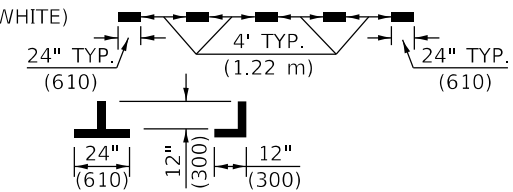
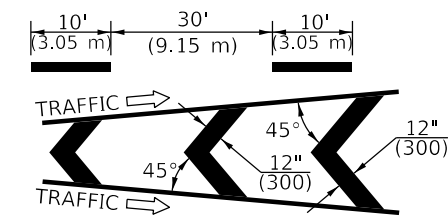
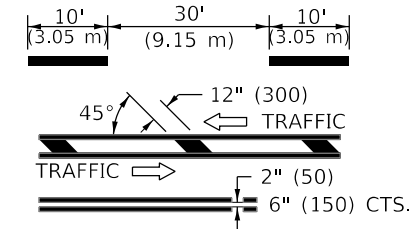


* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

TYPICAL PAVEMENT MARKING LEGEND

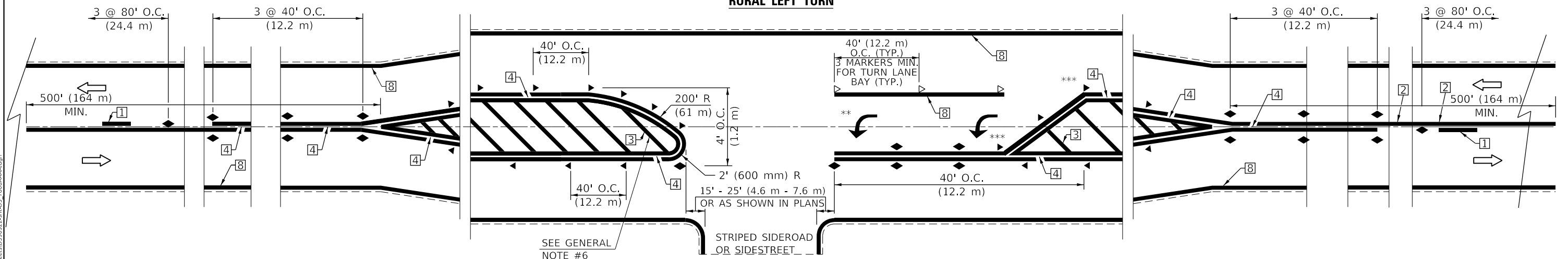
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)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



TYPICAL PAVEMENT MARKERS LEGEND

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

RURAL LEFT TURN



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

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

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

DISTRICT 5 DETAIL NO. 7800AAAA

USER NAME = jstein	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 8/4/2020	DATE -	REVISED - 3/2019 SWN

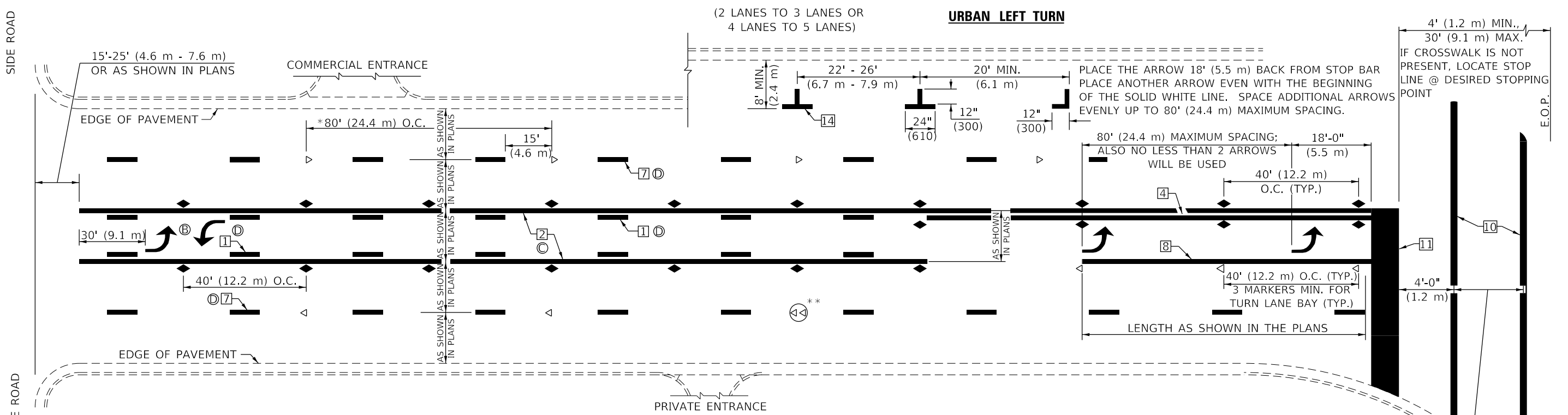
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	109
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

MODEL: D:\p4\11\11032404_CADD - DWG\14.7_TrafficCAD_Sheets\DS90922-ehc-05_7800AAAA.dwg

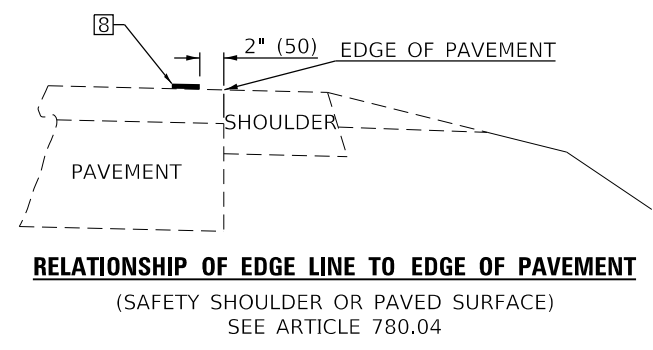
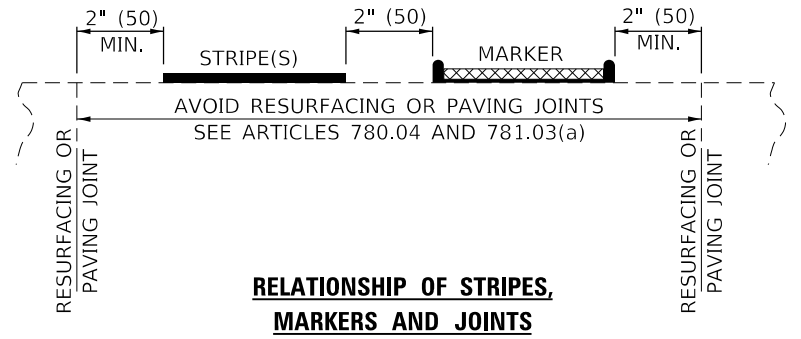
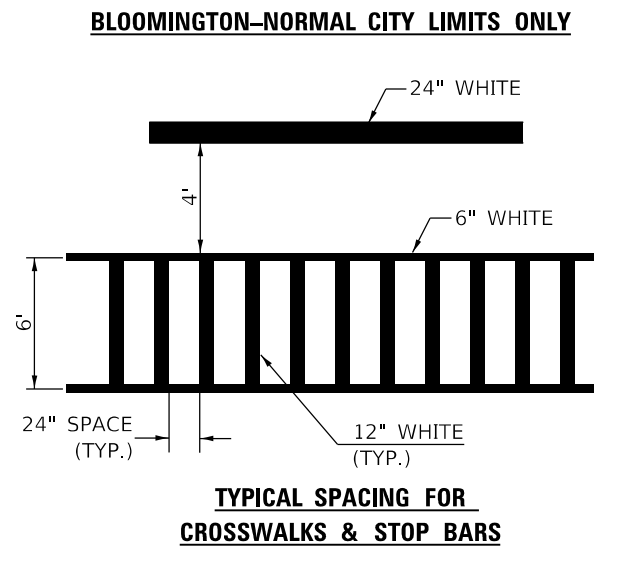
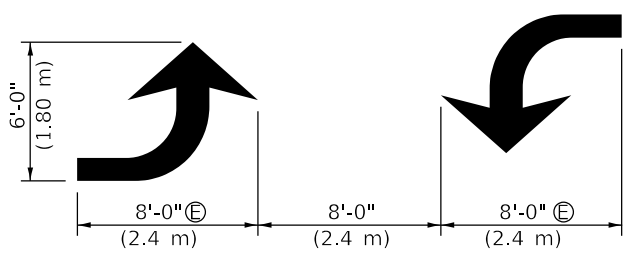
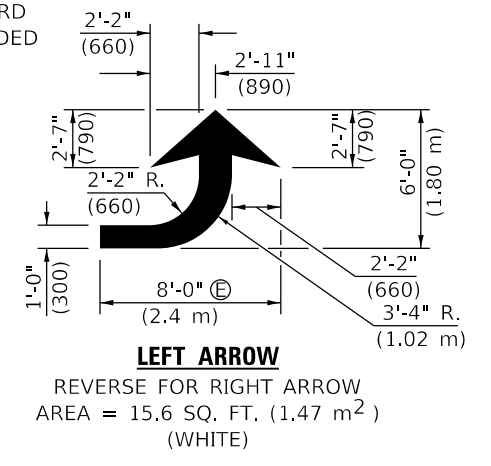


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

GENERAL NOTES:

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



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

MODEL: D:\64bit... FILE NAME: P:\2018\11\1803404_CADD... DWG: 11.7_TrafficCAD_Sheets\059022-5-11-18-05_7800A00A.dwg

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	DRAWN -	REVISED - 9/2009 KJT
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PLOT DATE = 8/4/2020	DATE -	REVISED - 3/2019 SWN

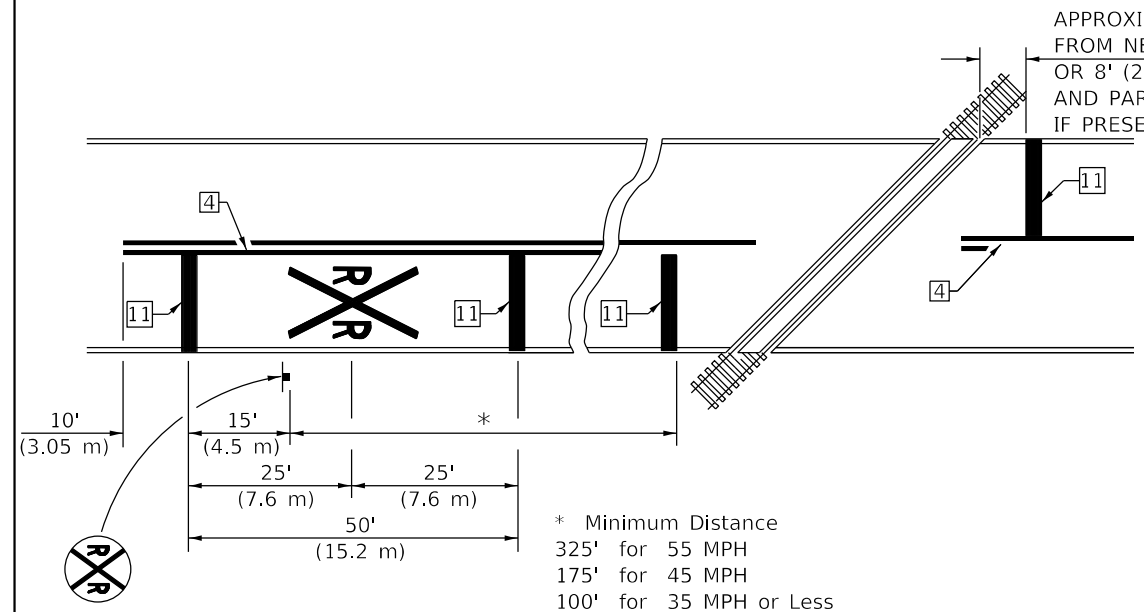
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

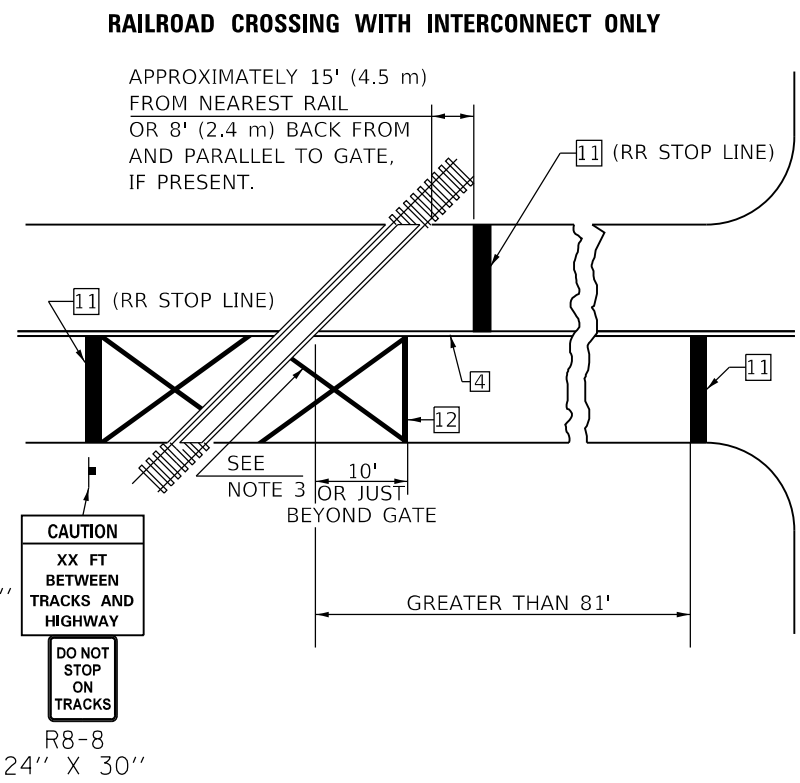
SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	110
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

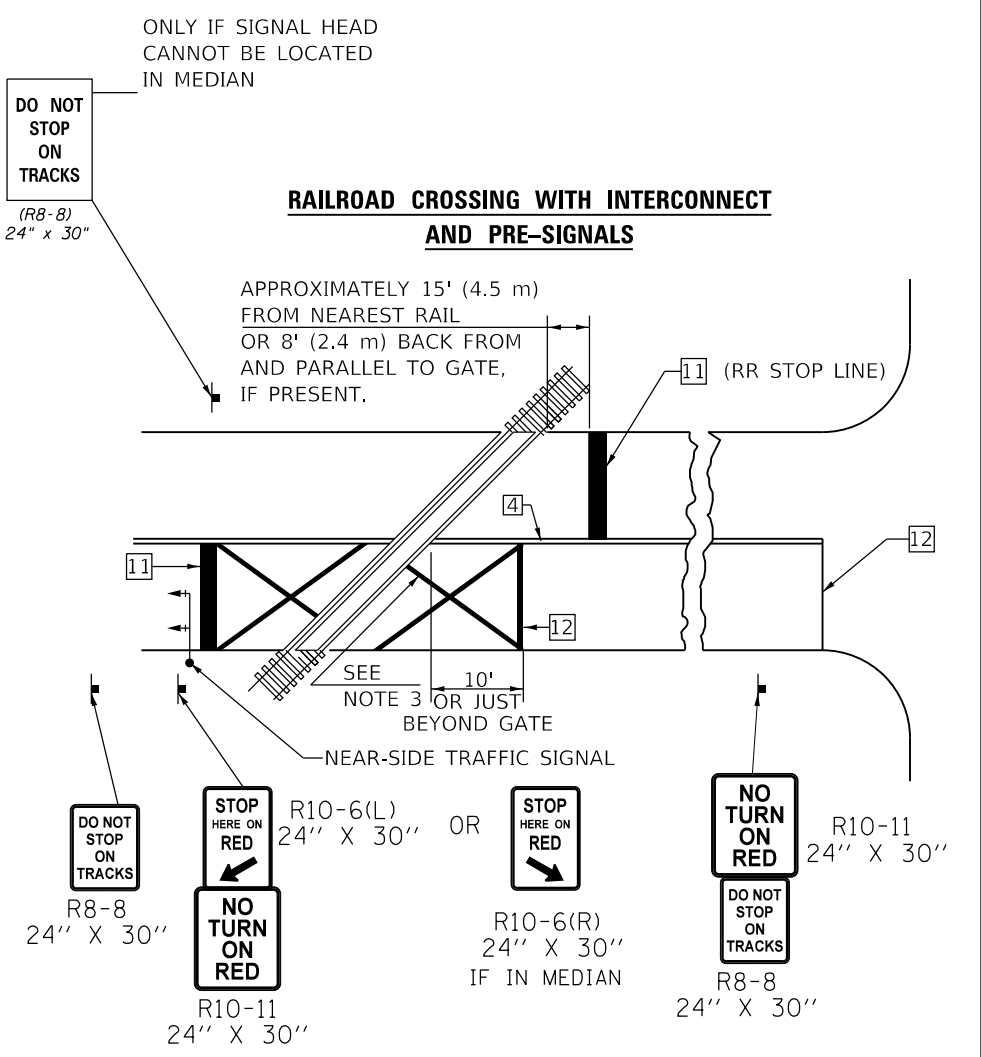
DESIGNER NOTE: SEE TABLE 2C-4 OF THE MUTCD FOR ADDITIONAL INFORMATION



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



RAILROAD CROSSING WITH INTERCONNECT ONLY



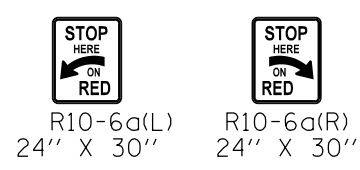
RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS

GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
4. XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

ALTERNATE SIGNS



NOTES

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

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

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

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

DISTRICT 5 DETAIL NO. 7800AAAA

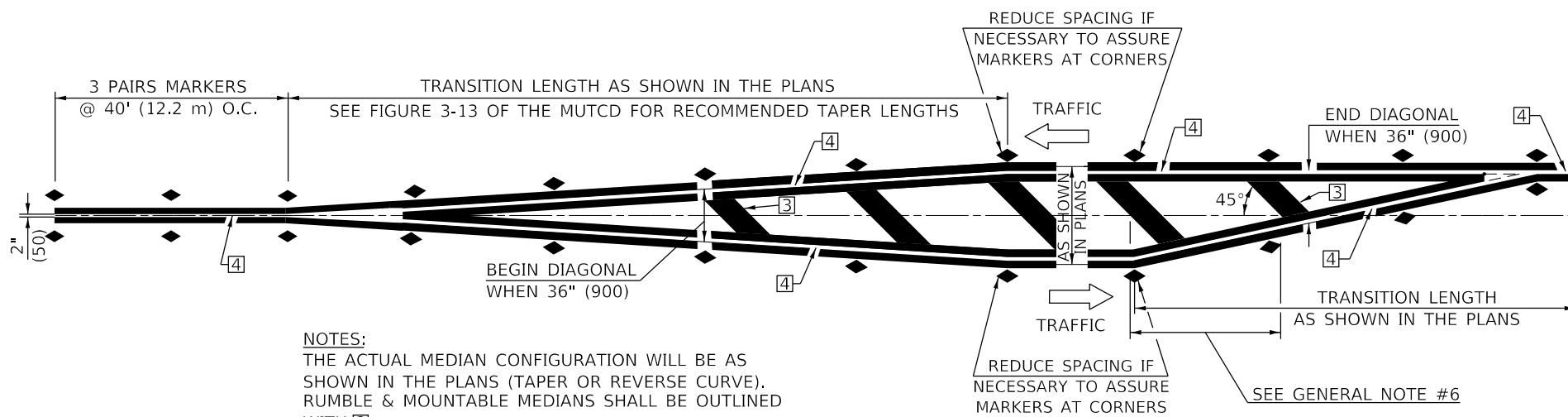
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USER NAME = jstein	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 8/4/2020	DATE -	REVISED - 3/2019 SWN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)			
SCALE:	SHEET 4 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	112
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

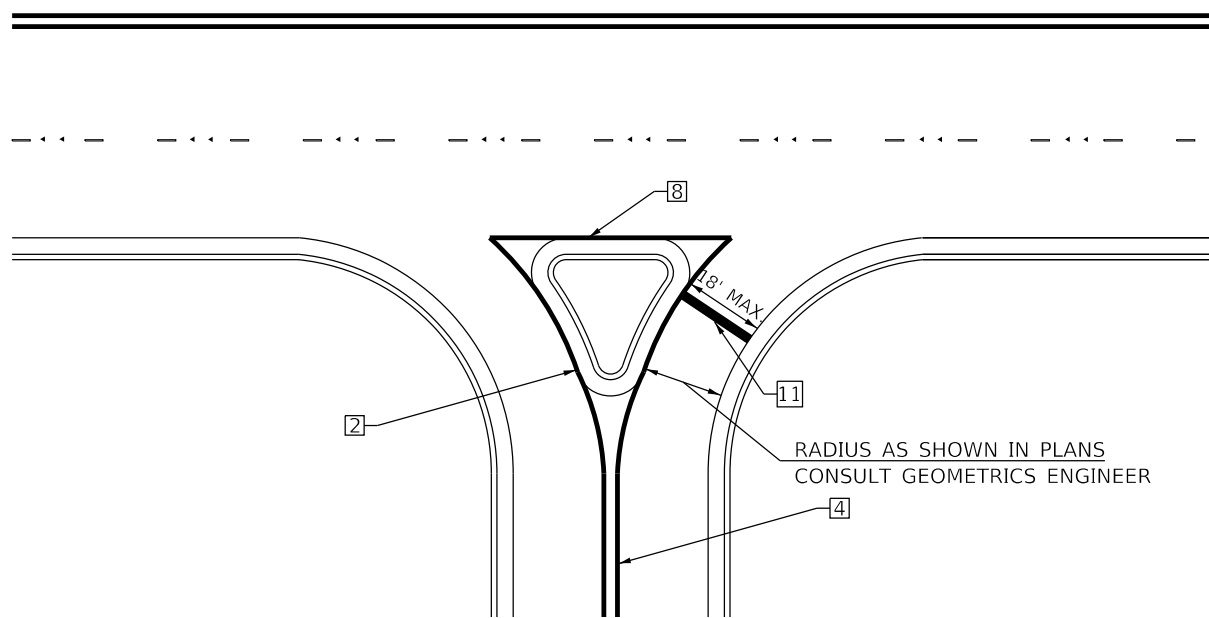


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

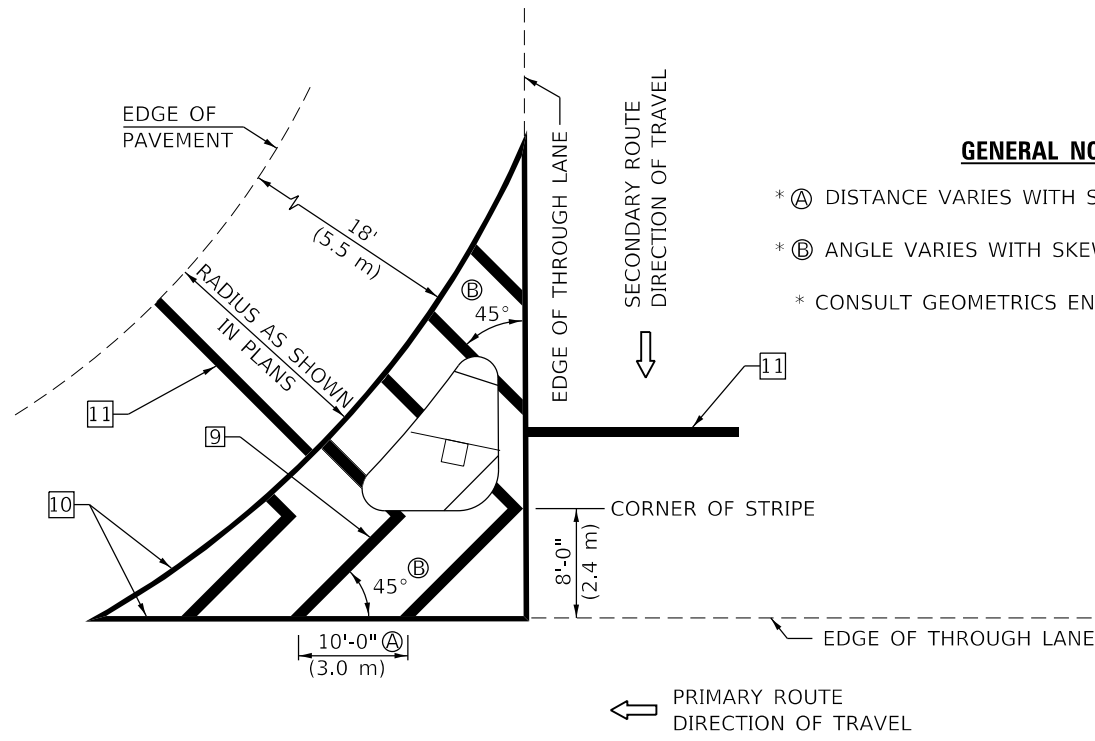
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

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



RIGHT IN - RIGHT OUT ACCESS



ISLAND

GENERAL NOTES

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

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

DISTRICT 5 DETAIL NO. 7800AAAA

MODEL: D:\64bit... FILE NAME: P:\2018\11\03\2404_CADD... DWG: 4.7_TrafficCAD_Sheets\059022-5-11-C5_7800AAAA.dgn

USER NAME = jstein	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 8/4/2020	DATE -	REVISED - 3/2019 SWN

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	111
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

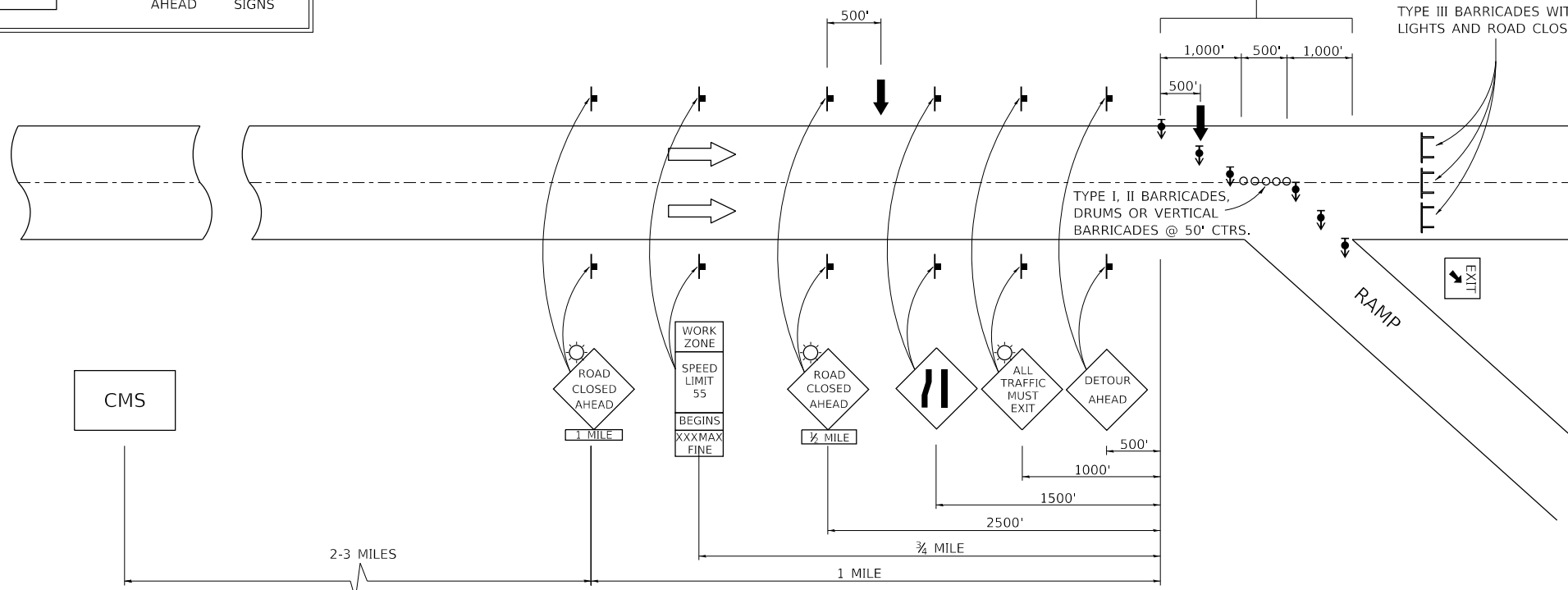
A CHANGEABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF SIGNING TO WARN OF CLOSURE

CMS	ROAD CLOSED	2-3 MILES AHEAD	FOLLOW DETOUR SIGNS
-----	-------------	-----------------	---------------------

INTERSTATE DETOUR USING ENTRANCE AND EXIT RAMP

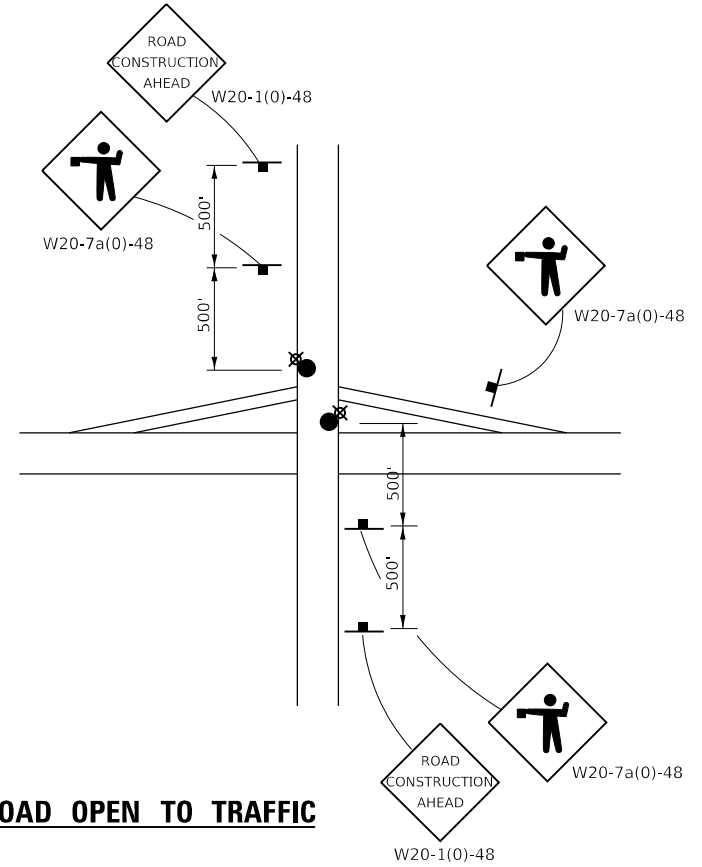
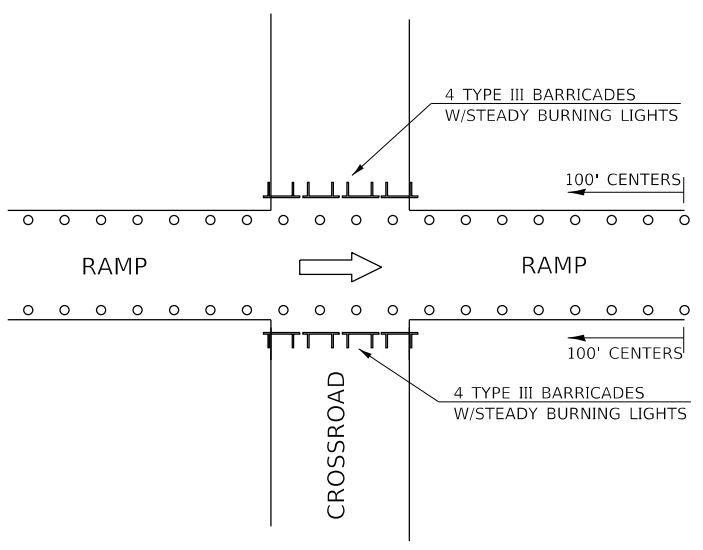
DIRECTIONAL BARRICADES WITH STEADY BURNING LIGHTS AT 50' (15 m) CTS. IN TAPER. DRUMS WITH STEADY BURNING LIGHTS IN TANGENT (BETWEEN TAPERS) AT 100' (30 m) CTS.

FOR OFF PEAK CLOSURES LESS THAN 24 HOURS, THE TANGENT SECTION MAY BE OMITTED BY APPROVAL OF THE ENGINEER.



SYMBOLS	
	ARROW BOARD
	SIGN
	DRUM W/STEADY BURNING LIGHT
	TYPE III BARRICADE
	DIRECTIONAL BARRICADE W/STEADY BURNING LIGHT
	LIGHTED FLAGGER STATIONS

DESIGNER NOTE: INCLUDE SPECIAL PROVISION "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR"



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

MODEL: D:\64bit... FILE NAME: P:\2018\18032404_CADD...DWG\4.7_TrafficCAD_Sheets\059022-ctc-05_X7011005.dgn

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	DRAWN -	REVISED - 01/10
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/4/2020	DATE -	REVISED -

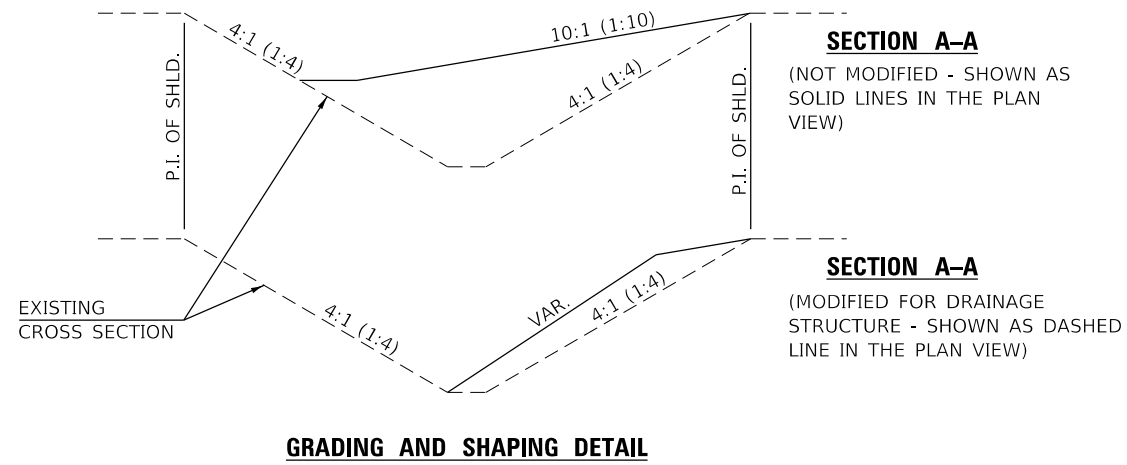
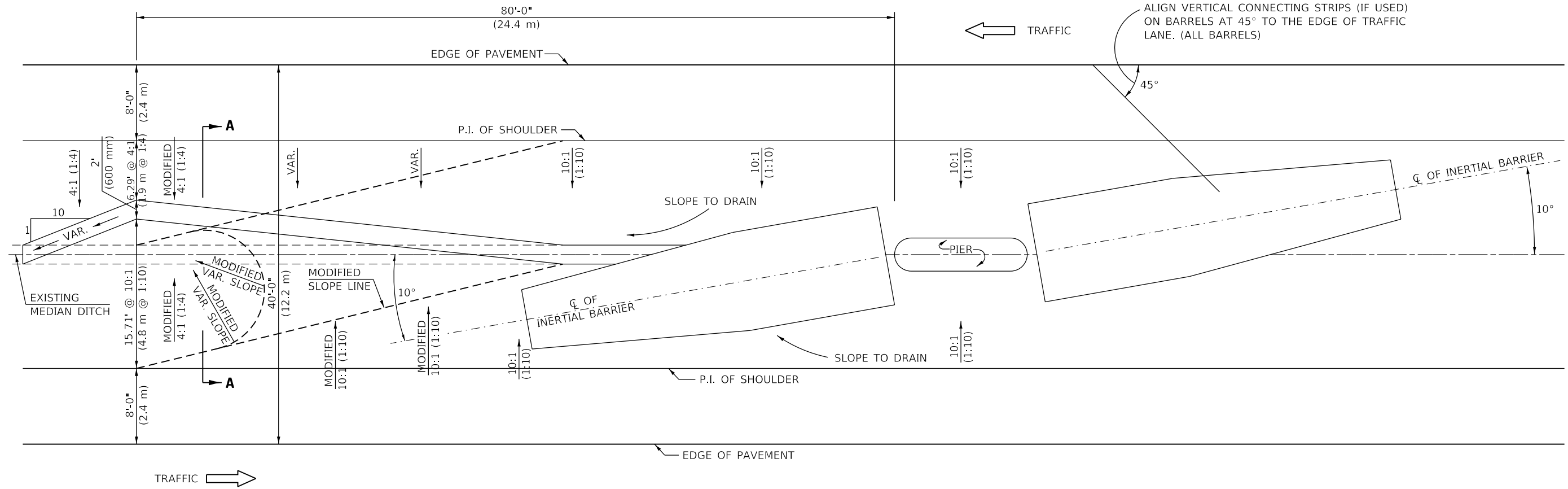
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR

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

DISTRICT 5 DETAIL NO. X7011005				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	113
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

DESIGN SPEEDS GREATER THAN 45 MPH (70 km/h) – 40' (12.2 m) MEDIAN



GRADING AND SHAPING DETAIL

GENERAL NOTES

1. ALL 10:1 (1:10) SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 (1:10) OR FLATTER.
2. ANY EXISTING DRAINAGE STRUCTURES LOCATED WITHIN THE 80' (24.4 m) WORKING AREA SHALL BE MODIFIED OR LEFT IN PLACE AS SHOWN ON THE PLANS. WHERE THE EXISTING DRAINAGE STRUCTURES ARE TO REMAIN IN PLACE, THE SLOPES ARE TO BE CONSTRUCTED AS SHOWN AS MODIFIED SLOPES ON THIS DETAIL AND AS DIRECTED BY THE ENGINEER.
3. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
4. IN AREAS OF 10:1 (1:10) SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR WOOD POSTS SHALL BE PLACED AT 5' (1.5 m) INTERVALS IN THE MEDIAN Q. SEE SPECIAL PROVISIONS.
5. SEE STANDARD 643001 FOR BASE DIMENSIONS AND SAND MODULE IMPACT ATTENUATOR ARRAY.

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

DISTRICT 5 DETAIL NO. Z0030150A

USER NAME = jstein	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 12/08
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 05/11
PLOT DATE = 8/4/2020	DATE -	REVISED - 3/7/17 SWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IMPACT ATENUATORS TEST LEVEL 3

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	114
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

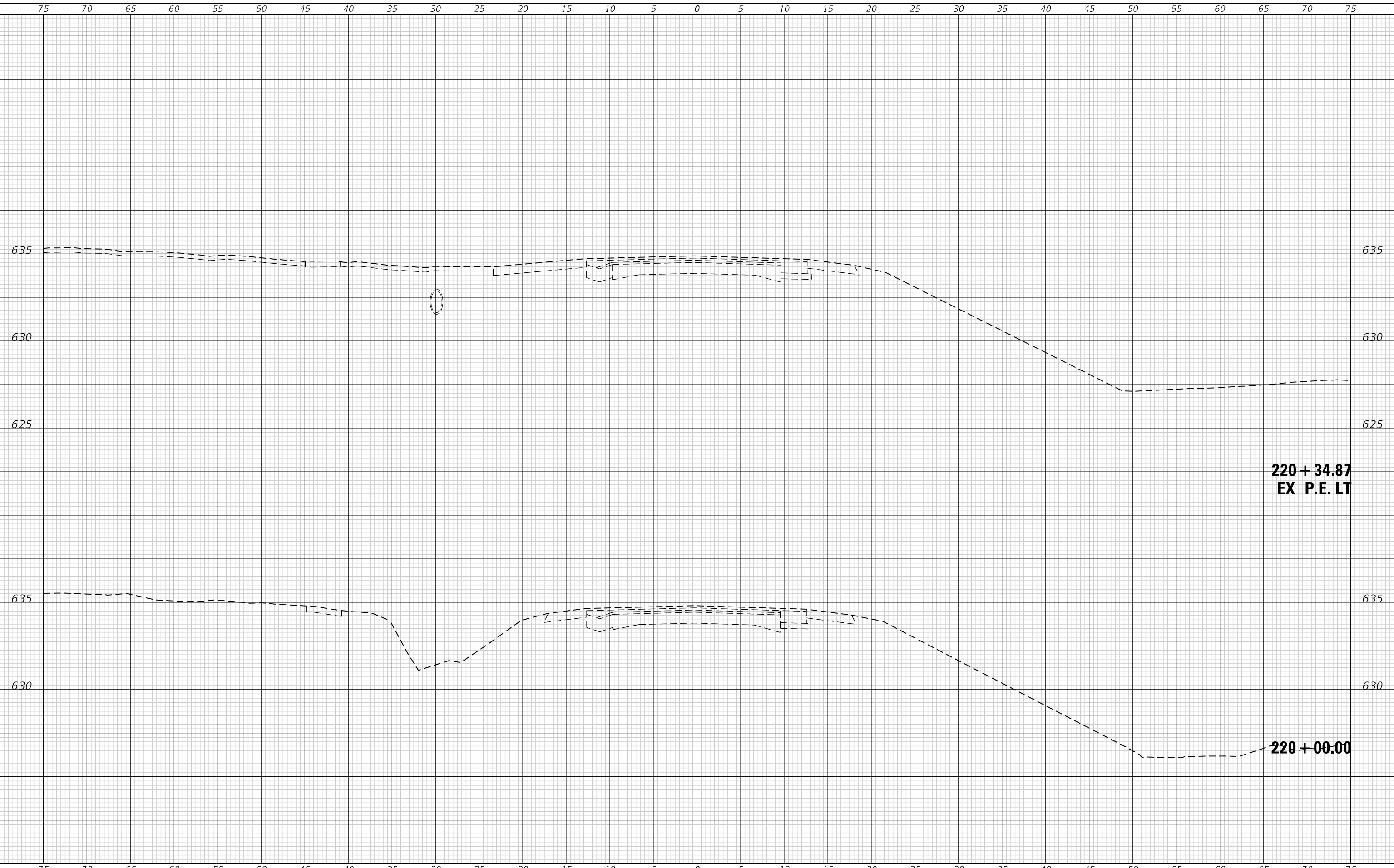
DESIGNER NOTE: SEE BDE PROCEDURE MEMORANDUM 34-06

MODEL: D:\64bit... FILE NAME: P:\2018\11803404_CADD... DWG: 4.7_TrafficCAD_Sheets\059022-sh-05_Z0030150A.dwg

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

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

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**220 + 34.87
EX P.E. LT**

220 + 00.00



TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = jstein
 DESIGNED - JWS
 DRAWN - JWS
 CHECKED - SJK
 DATE - AUGUST 2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
TILTON ROAD**

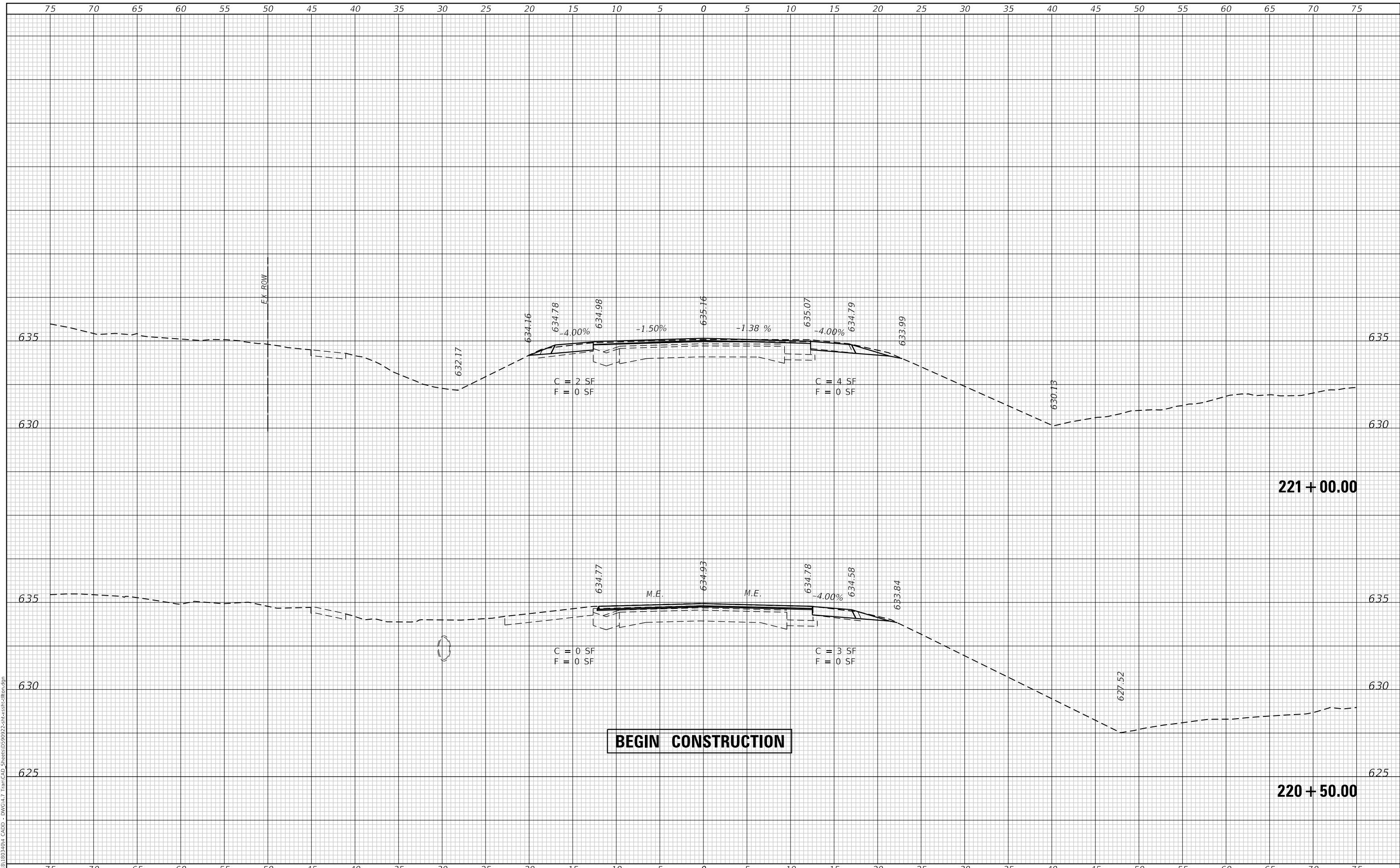
SCALE: 1" = 5' SHEET 1 OF 10 SHEETS STA. 220+00.00 TO STA. 220+34.87

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	115
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

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

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

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USER NAME = jstein
DESIGNED - JWS
DRAWN - JWS
CHECKED - SJK
DATE - AUGUST 2020

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REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

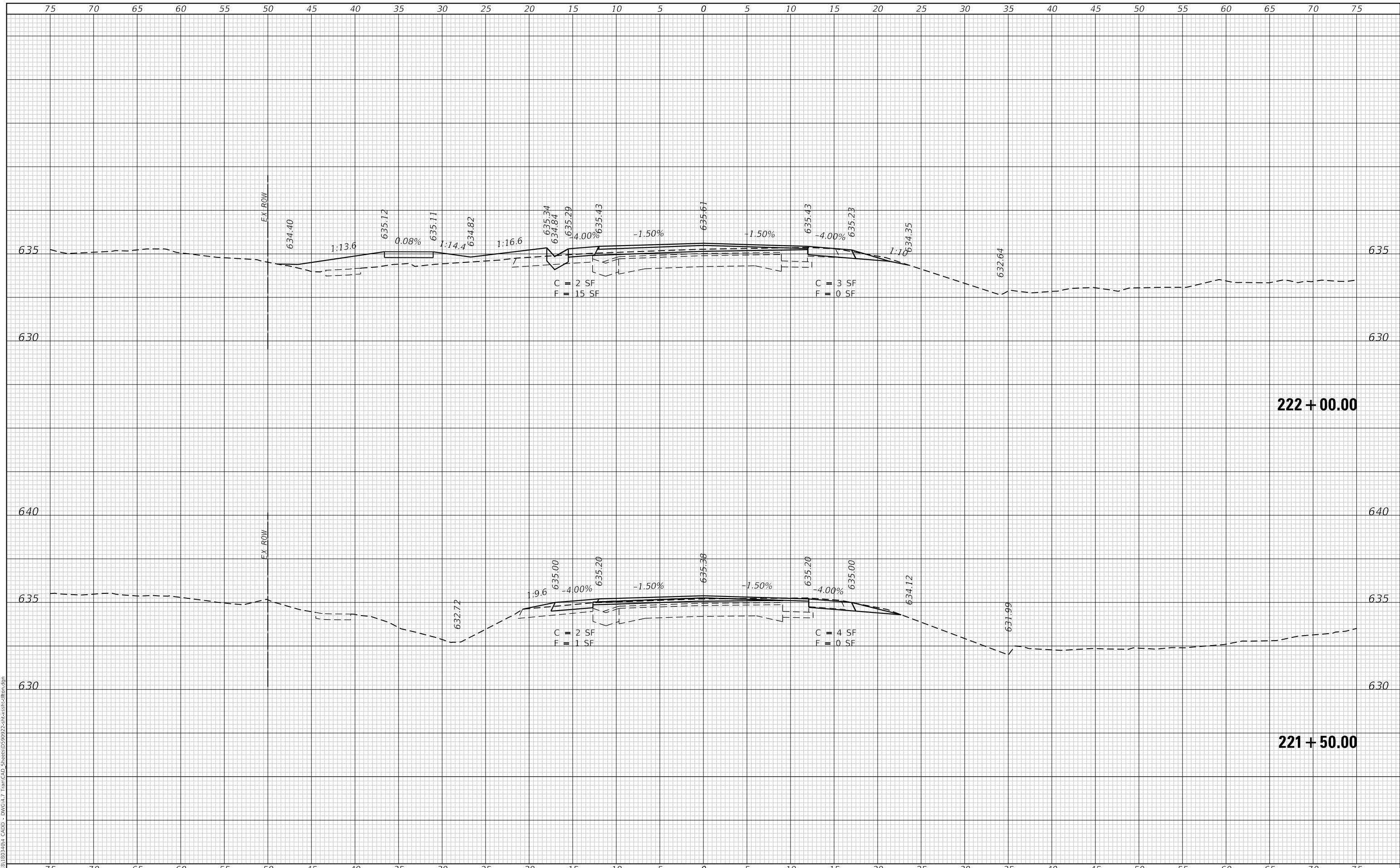
**CROSS SECTIONS
TILTON ROAD**
SCALE: 1" = 5'
SHEET 2 OF 10 SHEETS
STA. 220+50.00 TO STA. 221+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	116
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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USER NAME = jstein	DESIGNED - JWS	REVISED -
	DRAWN - JWS	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

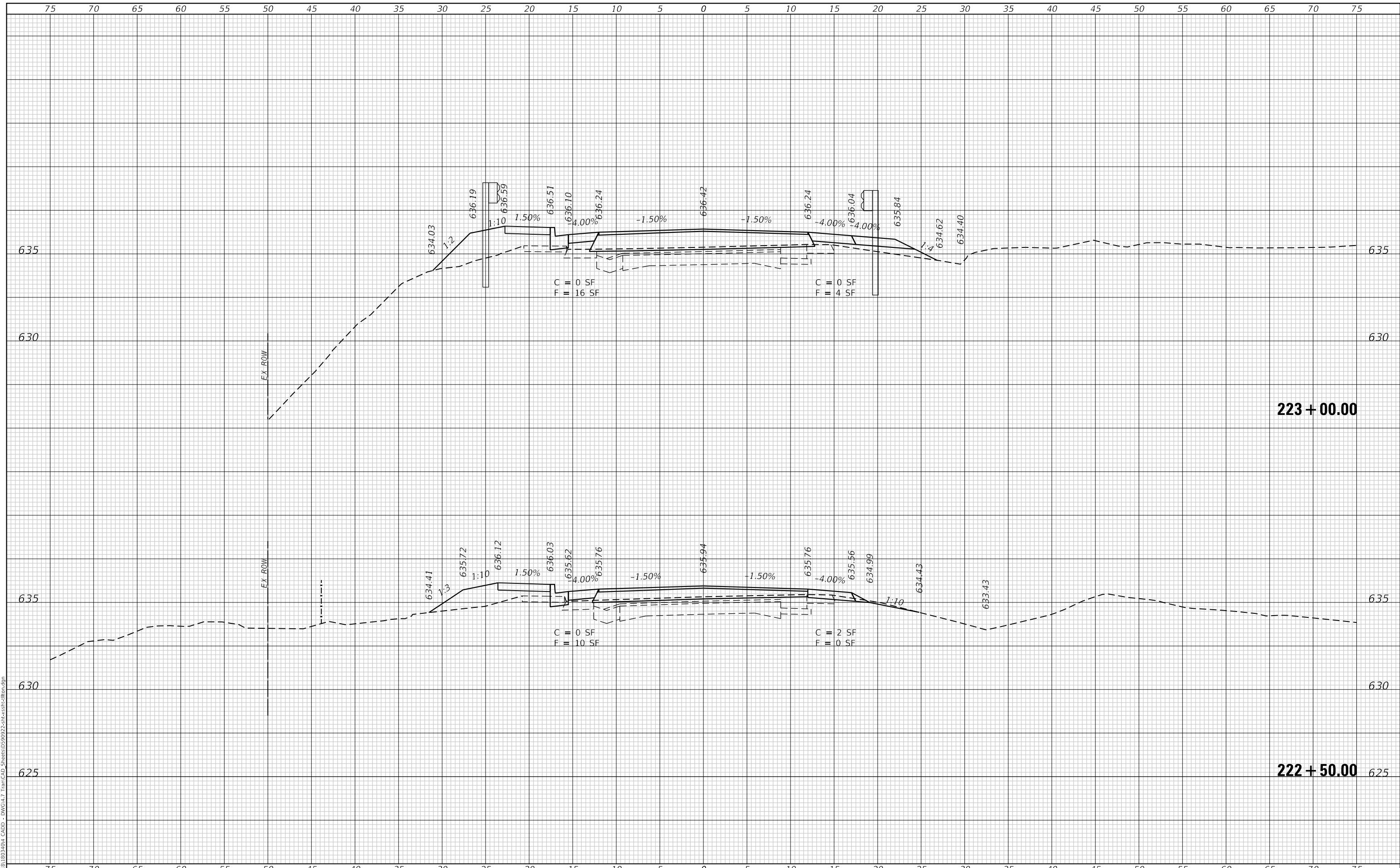
CROSS SECTIONS TILTON ROAD	
SCALE: 1" = 5'	SHEET 3 OF 10 SHEETS
STA. 221+50.00 TO STA. 222+00.00	

F.A.I. RTE. 74	SECTION (92-11HB-4)BR	COUNTY VERMILION	TOTAL SHEETS 133	SHEET NO. 117
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
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DATE	
BY	
ORIGINAL SURVEY NO.	
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 CHECKED - SJK
 DATE - AUGUST 2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 TILTON ROAD**

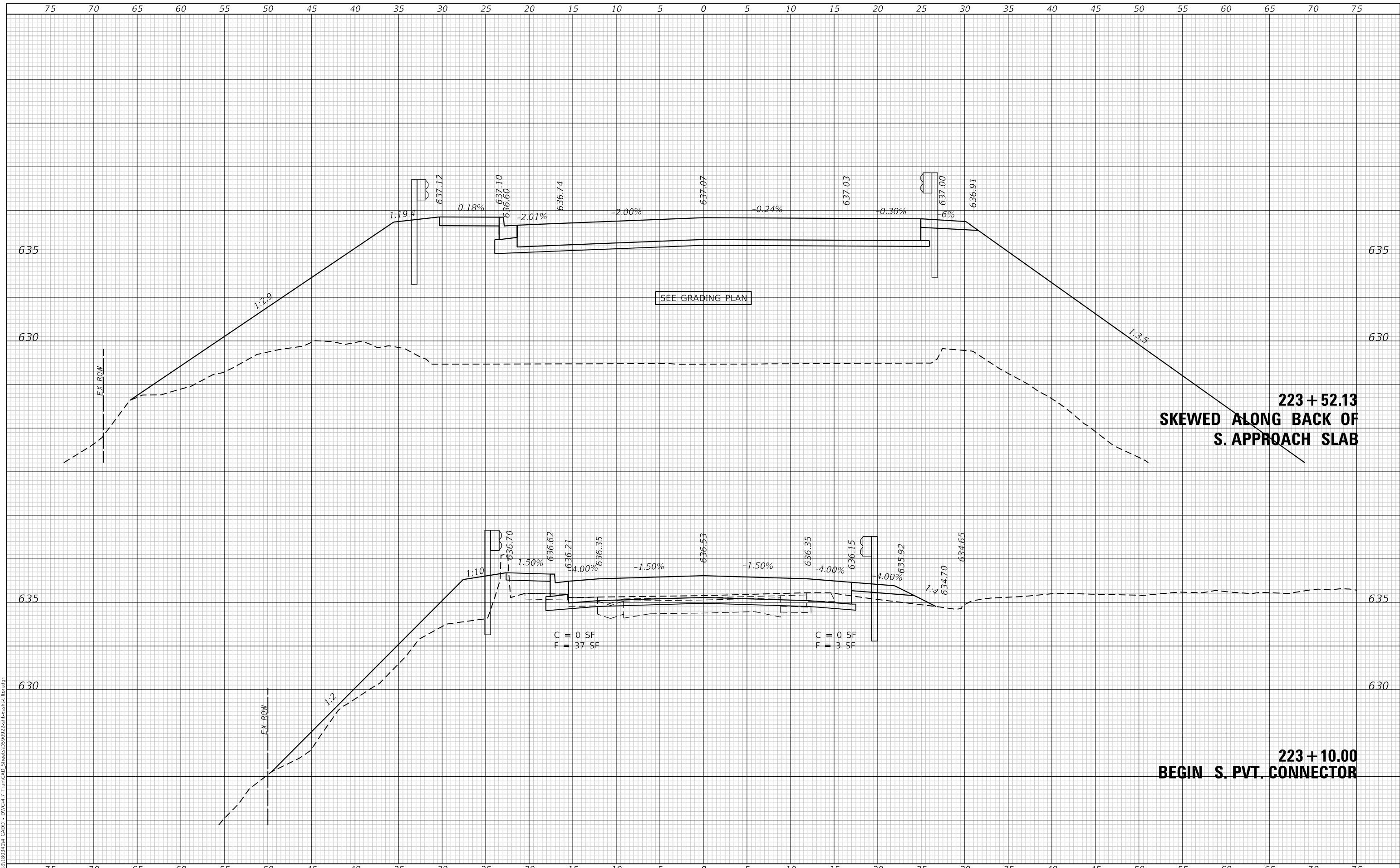
SCALE: 1" = 5' SHEET 4 OF 10 SHEETS STA. 222+50.00 TO STA. 223+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	118
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

MODEL: Defnair
 FILE NAME: P:\2020\181803340\4 CAD - DWG-4.7 Tran-CAD_Sheet\059022\2-Grading.dwg



**223 + 52.13
 SKEWED ALONG BACK OF
 S. APPROACH SLAB**

**223 + 10.00
 BEGIN S. PVT. CONNECTOR**



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 DATE - AUGUST 2020

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 TILTON ROAD**

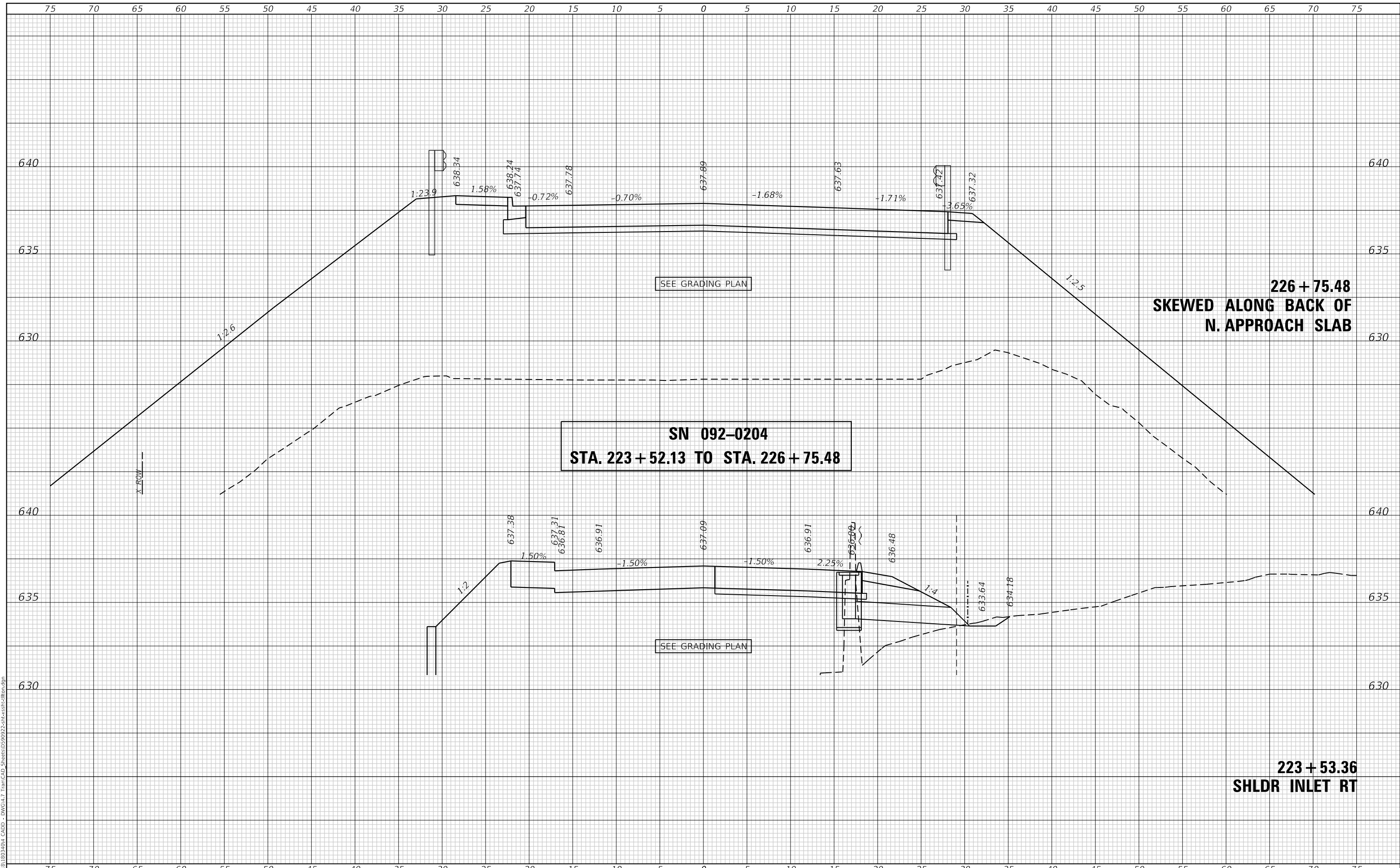
SCALE: 1" = 5' SHEET 5 OF 10 SHEETS STA. 223+10.00 TO STA. 223+52.13

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	119
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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SN 092-0204
STA. 223 + 52.13 TO STA. 226 + 75.48

226 + 75.48
SKEWED ALONG BACK OF
N. APPROACH SLAB

223 + 53.36
SHLDR INLET RT



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	DRAWN - JWS	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

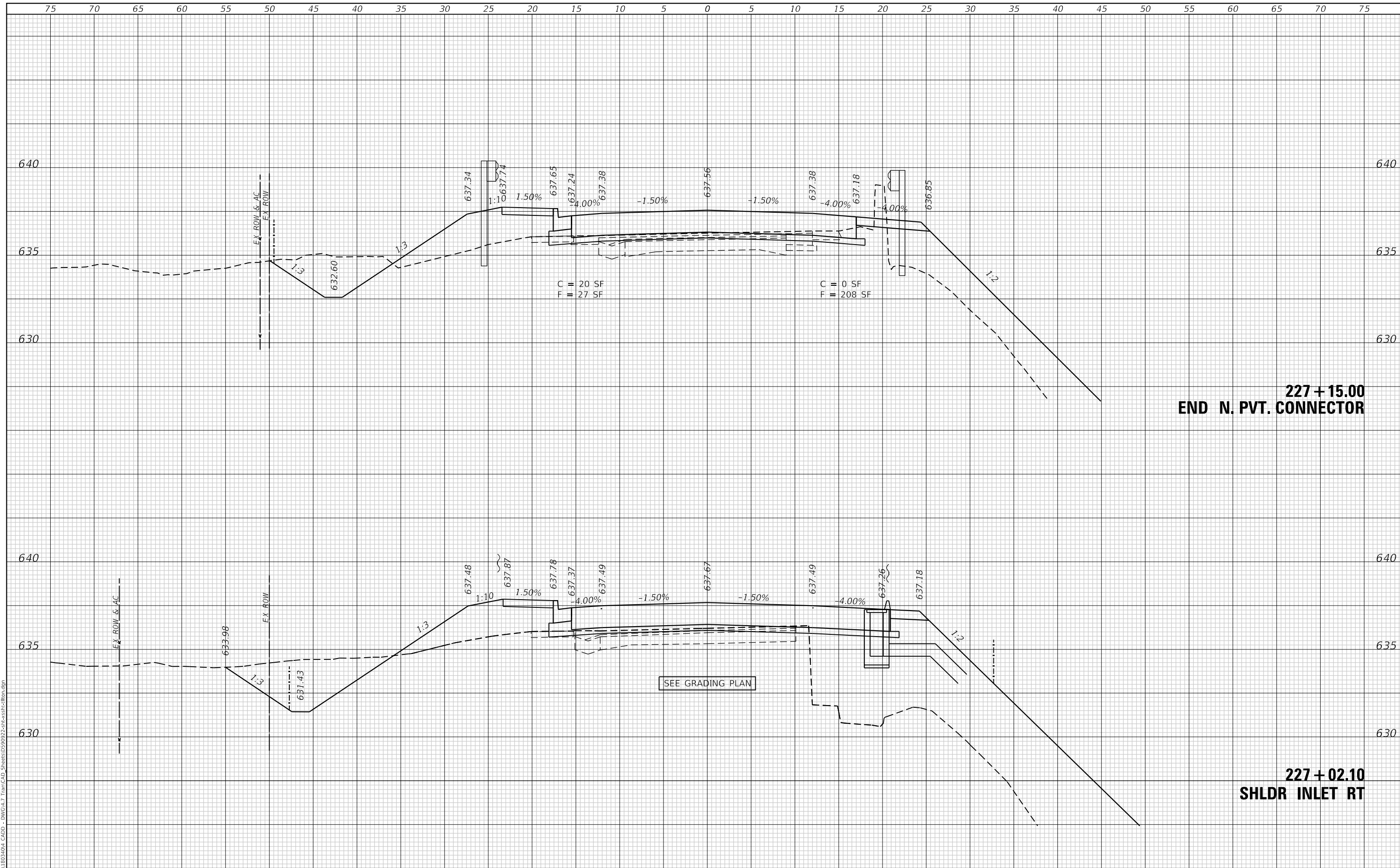
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
TILTON ROAD	
SCALE: 1" = 5'	SHEET 6 OF 10 SHEETS
STA. 223+53.36 TO STA. 226+75.48	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	120
				CONTRACT NO. 90922
		ILLINOIS	FED. AID PROJECT	

DATE	
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SURVEYED	
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AREAS CHECKED	
FINAL SURVEY NO.	
NOTE BOOK NO.	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY NO.	
NOTE BOOK NO.	
AREAS CHECKED	



**227 + 15.00
END N. PVT. CONNECTOR**

**227 + 02.10
SHLDR INLET RT**

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PLLOT SCALE = 10.0000' / 1 in.	CHECKED - SJK	REVISED -
PLLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

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DEPARTMENT OF TRANSPORTATION**

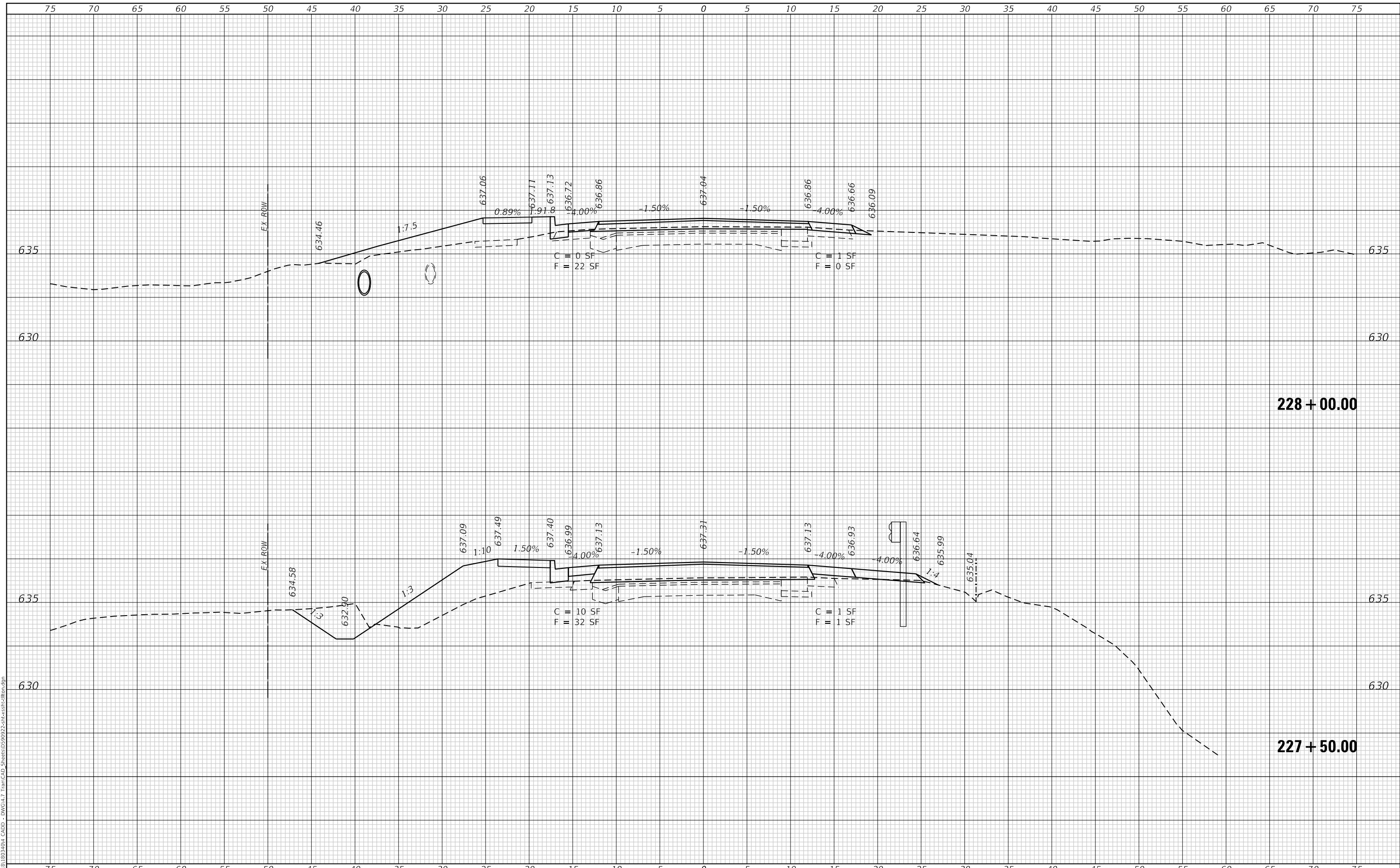
CROSS SECTIONS TILTON ROAD	
SCALE: 1" = 5'	SHEET 7 OF 10 SHEETS
STA. 227+02.10 TO STA. 227+15.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	121
				CONTRACT NO. 90922
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
BY	
ORIGINAL SURVEY NO.	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 TILTON ROAD**

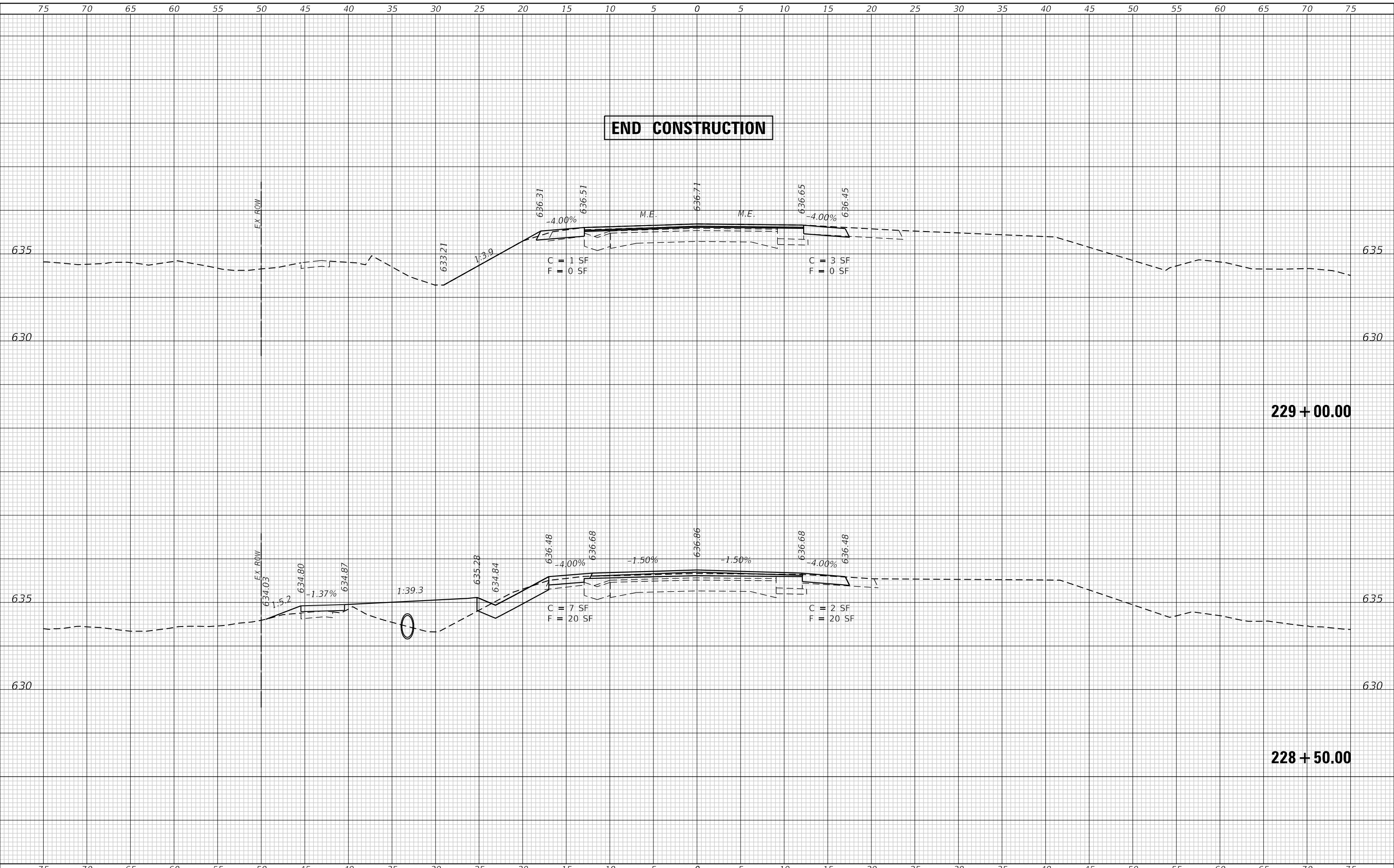
SCALE: 1" = 5'
 SHEET 8 OF 10 SHEETS
 STA. 227+50.00 TO STA. 228+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	122
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

DATE	
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SURVEYED	
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FINAL SURVEY	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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END CONSTRUCTION



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PLOT DATE = 8/4/2020	CHECKED - SJK	REVISED -
	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
TILTON ROAD**

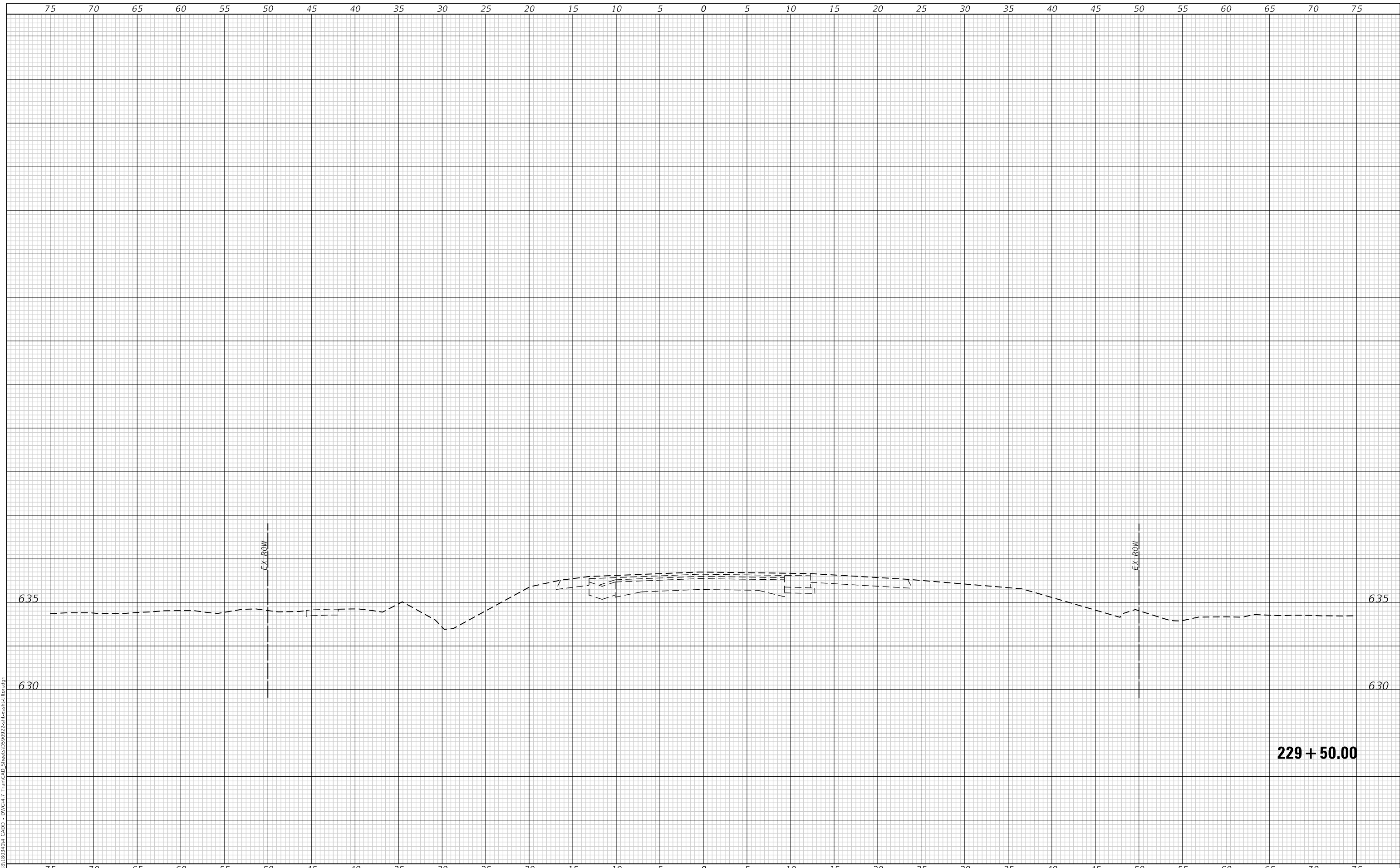
SCALE: 1" = 5' SHEET 9 OF 10 SHEETS STA. 228+50.00 TO STA. 229+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	123
				CONTRACT NO. 90922
				ILLINOIS FED. AID PROJECT

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

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

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635

635

630

630

229 + 50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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PLOT DATE = 8/4/2020	DATE - AUGUST 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 TILTON ROAD**

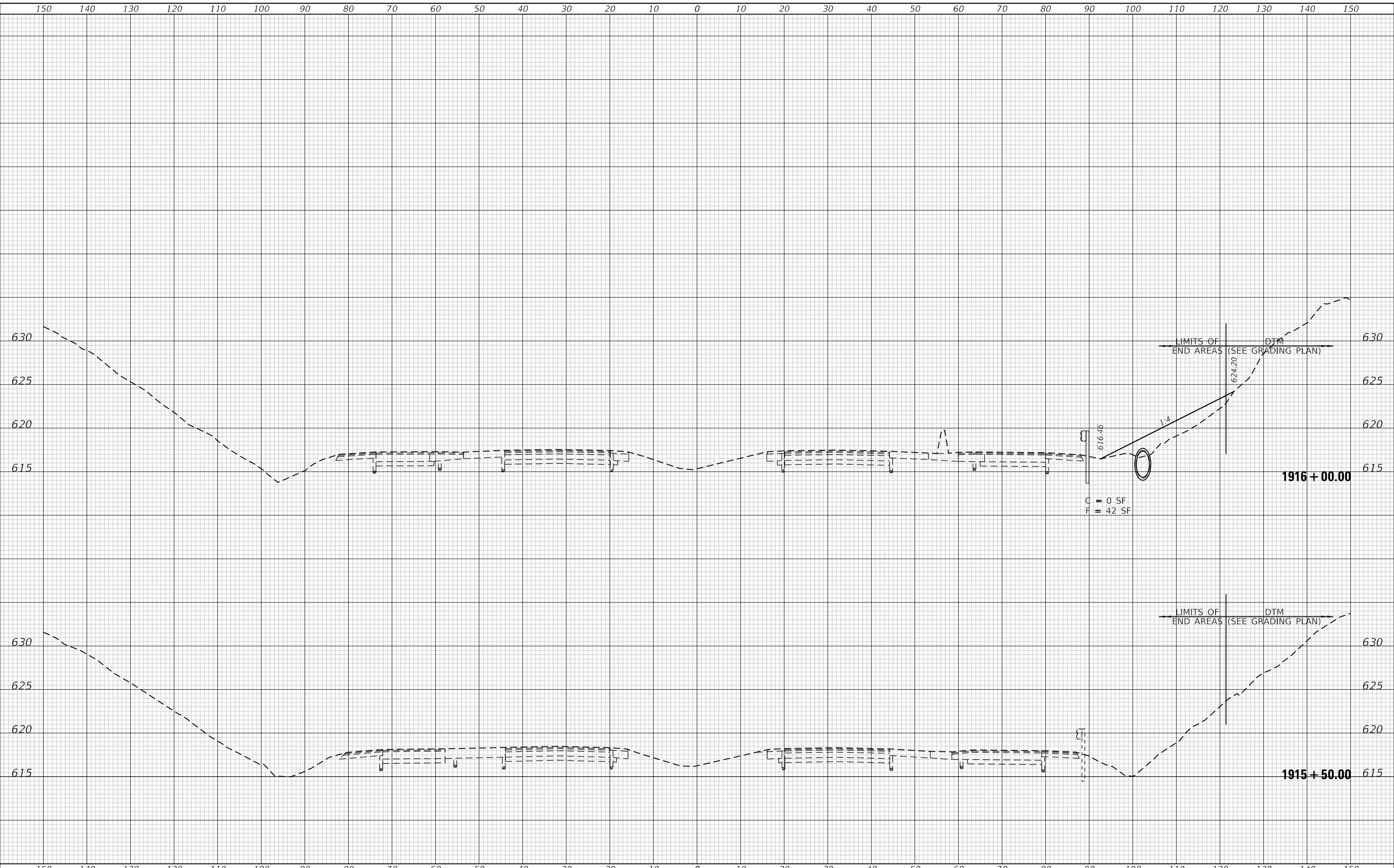
SCALE: 1" = 5' SHEET 10 OF 10 SHEETS STA. 229+50.00 TO STA. 229+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	124
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
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MODEL: Defnair
 FILE NAME: P:\2020\181803300\4 CAD - DWG-H-7 Tran\CAD Sheets\09022\2-Grading\CS-74.dgn



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 CHECKED - SJK
 DATE - AUGUST 2020

REVISIONS
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**STATE OF ILLINOIS
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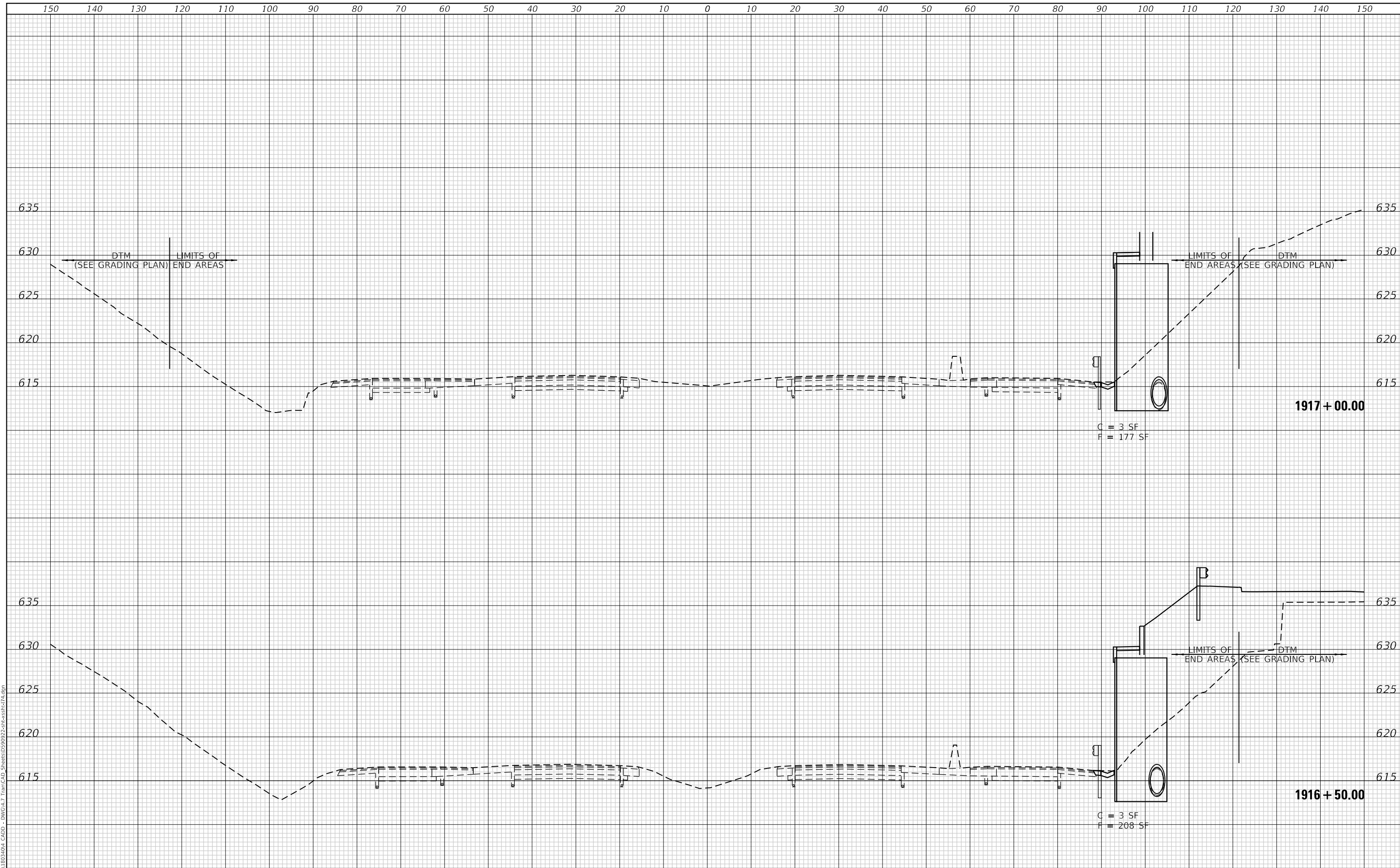
**CROSS SECTIONS
 I-74**

SCALE: 1" = 10' SHEET 1 OF 9 SHEETS STA. 1915+50.00 TO STA. 1916+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	125
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	
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ORIGINAL SURVEY	
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 FILE NAME: P:\2020\181803340\4 CAD - DWG\4-7 Tran-CAD_Sheet\181803340-4.dgn



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REVISIONS
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**STATE OF ILLINOIS
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**CROSS SECTIONS
 I-74**

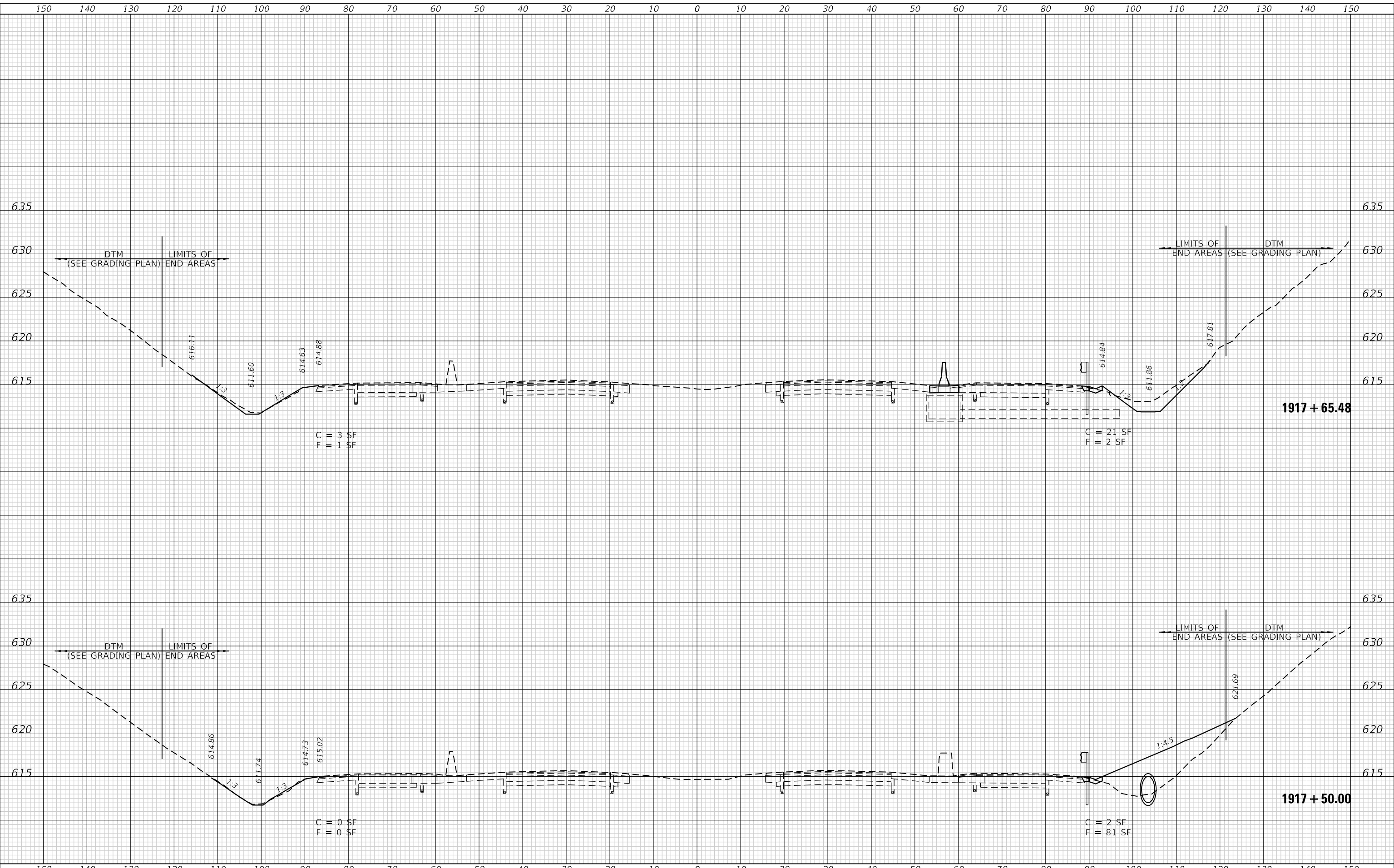
SCALE: 1" = 10' SHEET 2 OF 9 SHEETS STA. 1916+50.00 TO STA. 1917+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	126
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
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TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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MODEL: Defnair
 FILE NAME: P:\2020\184\903\304\ CAD - DWG-A-7 Tran-CAD Sheets\90922\90922-184-304.dgn



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 DATE - AUGUST 2020

REVISIONS
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STATE OF ILLINOIS
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CROSS SECTIONS
 I-74

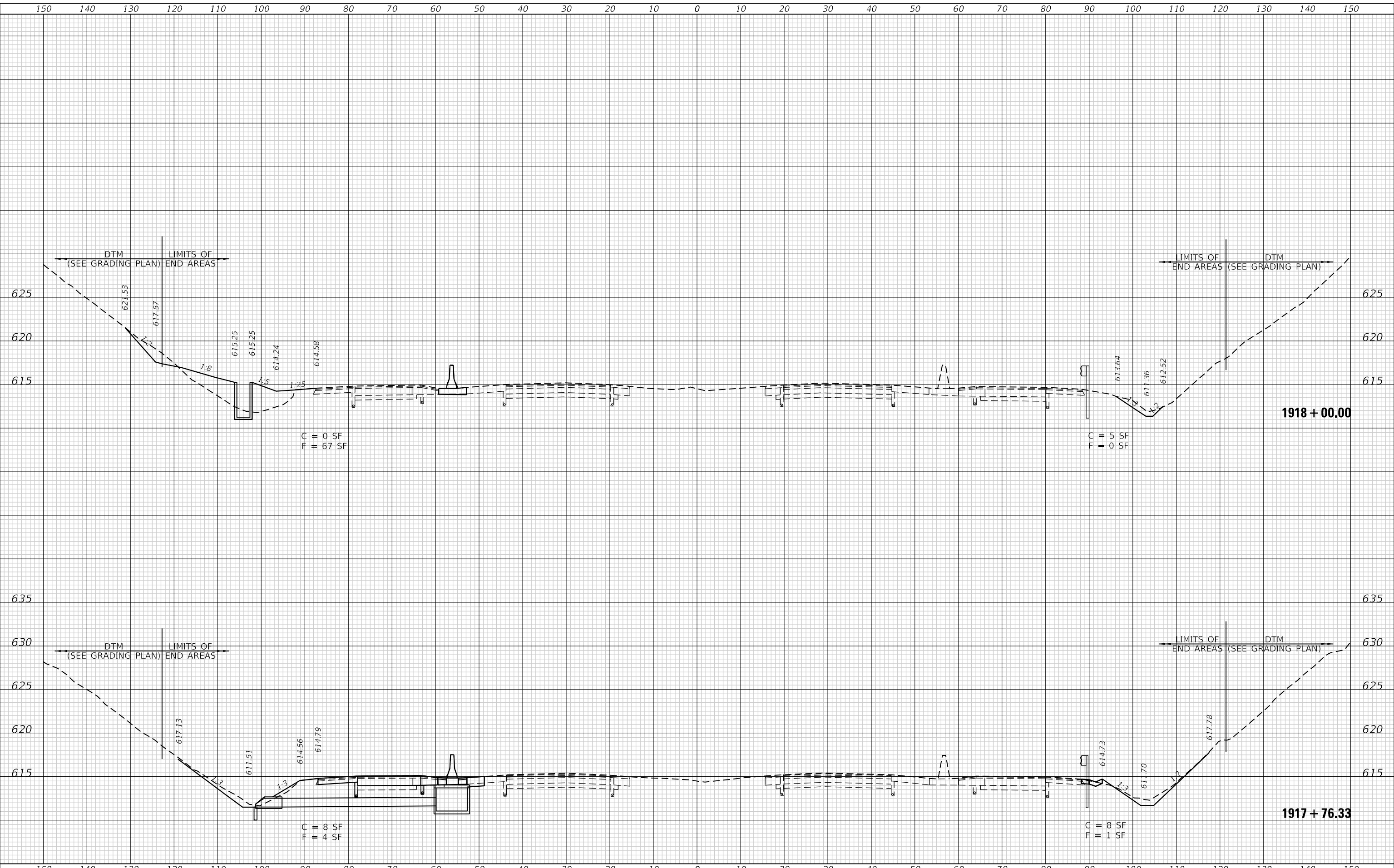
SCALE: 1" = 10' SHEET 3 OF 9 SHEETS STA. 1917+50.00 TO STA. 1917+65.48

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	127
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
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FINAL SURVEY	
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DATE	
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 FILE NAME: P:\2020\184-093\184-093-100\4_CADD - DWG-I-74 Tran-CAD_Sheets\92922\281rcastrcd74.dgn



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 DATE - AUGUST 2020

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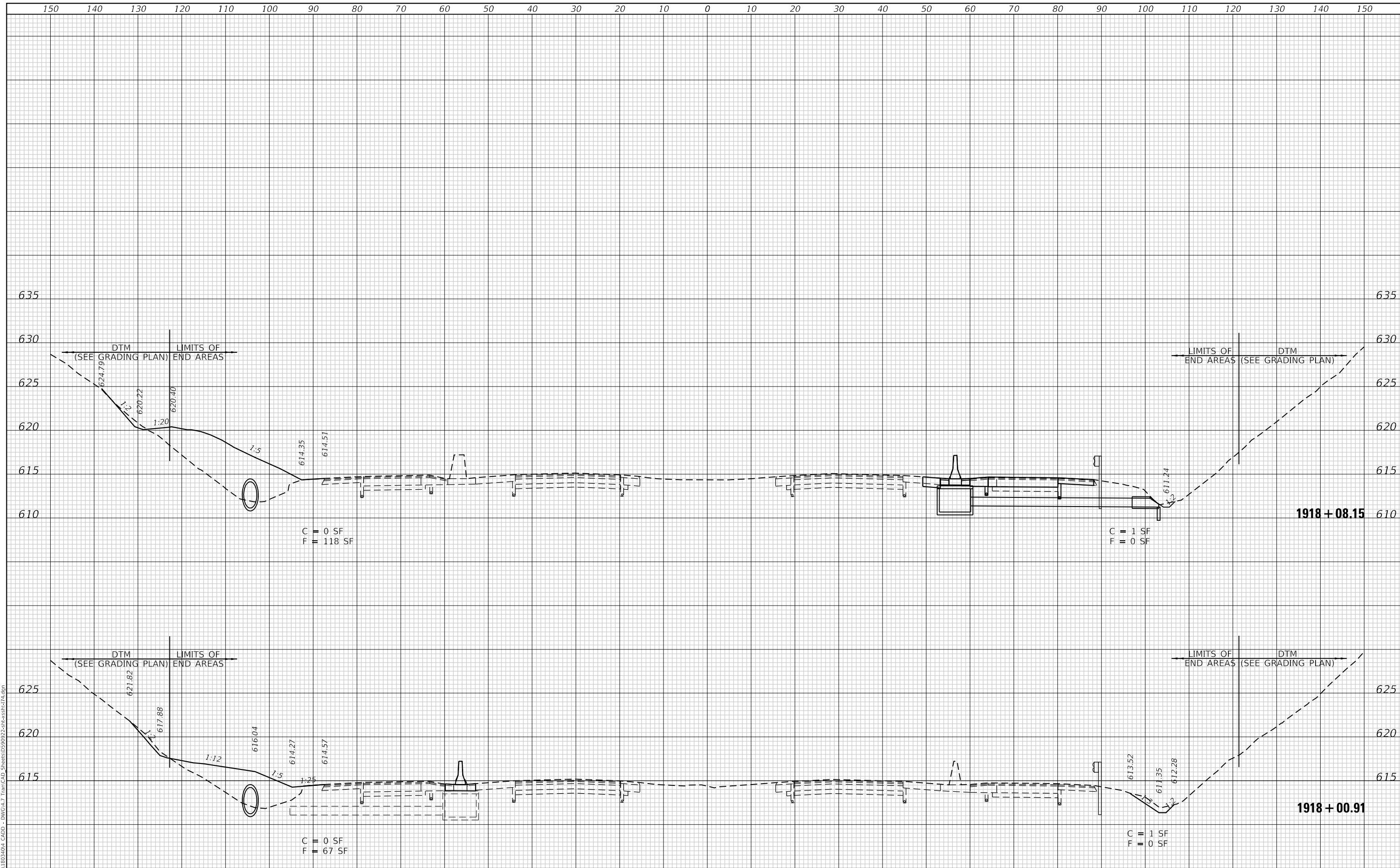
CROSS SECTIONS
 I-74

SCALE: 1" = 10' SHEET 4 OF 9 SHEETS STA. 1917+76.33 TO STA. 1918+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	128
			CONTRACT NO. 90922	
ILLINOIS FED. AID PROJECT				

DATE	
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AREAS CHECKED	
FINAL SURVEY	
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DATE - AUGUST 2020

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REVISOR
DATE

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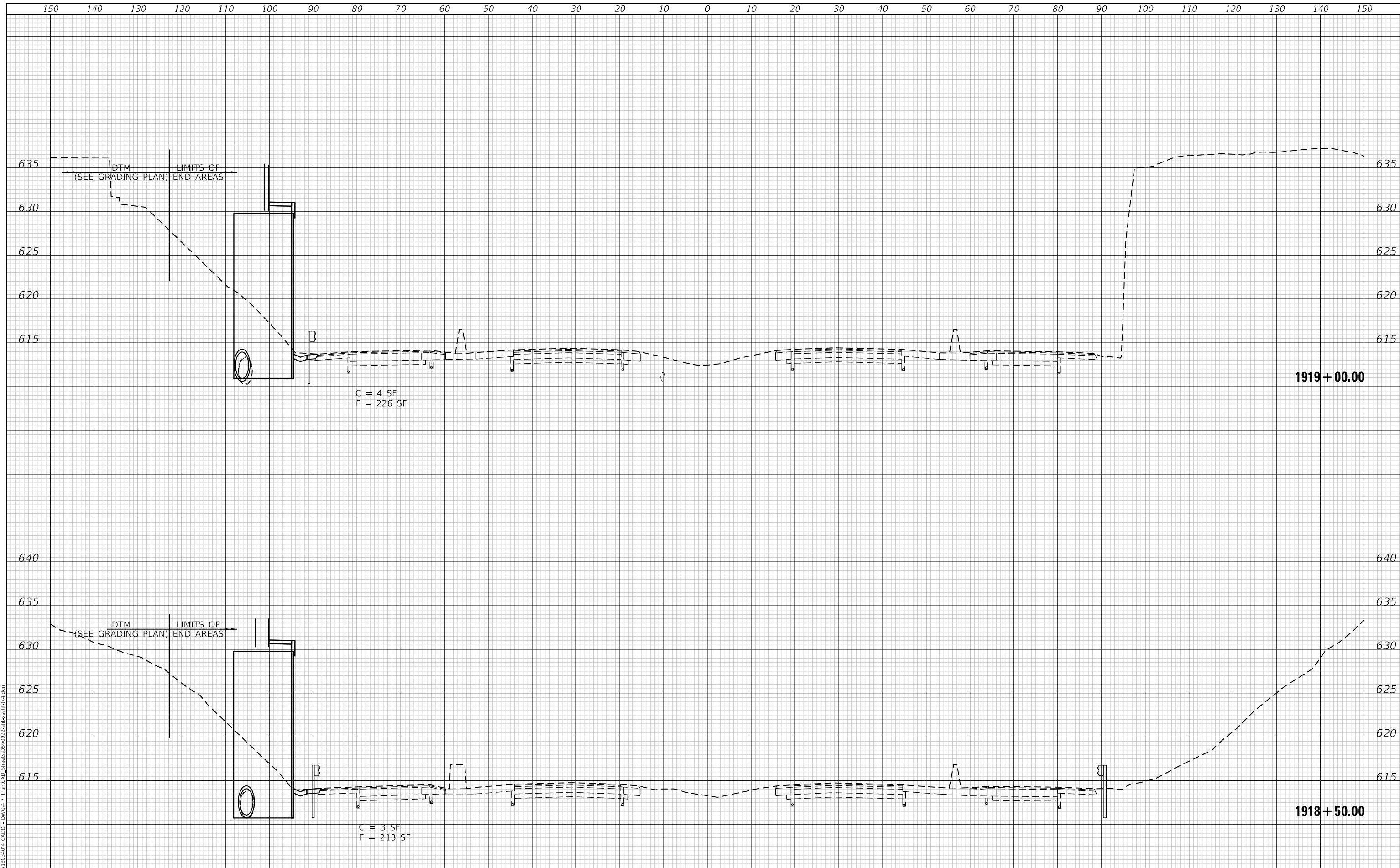
CROSS SECTIONS
I-74

SCALE: 1" = 10' SHEET 5 OF 9 SHEETS STA. 1918+00.91 TO STA. 1918+08.15

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	129
			CONTRACT NO. 90922	
		ILLINOIS FED. AID PROJECT		

DATE	
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DATE - AUGUST 2020

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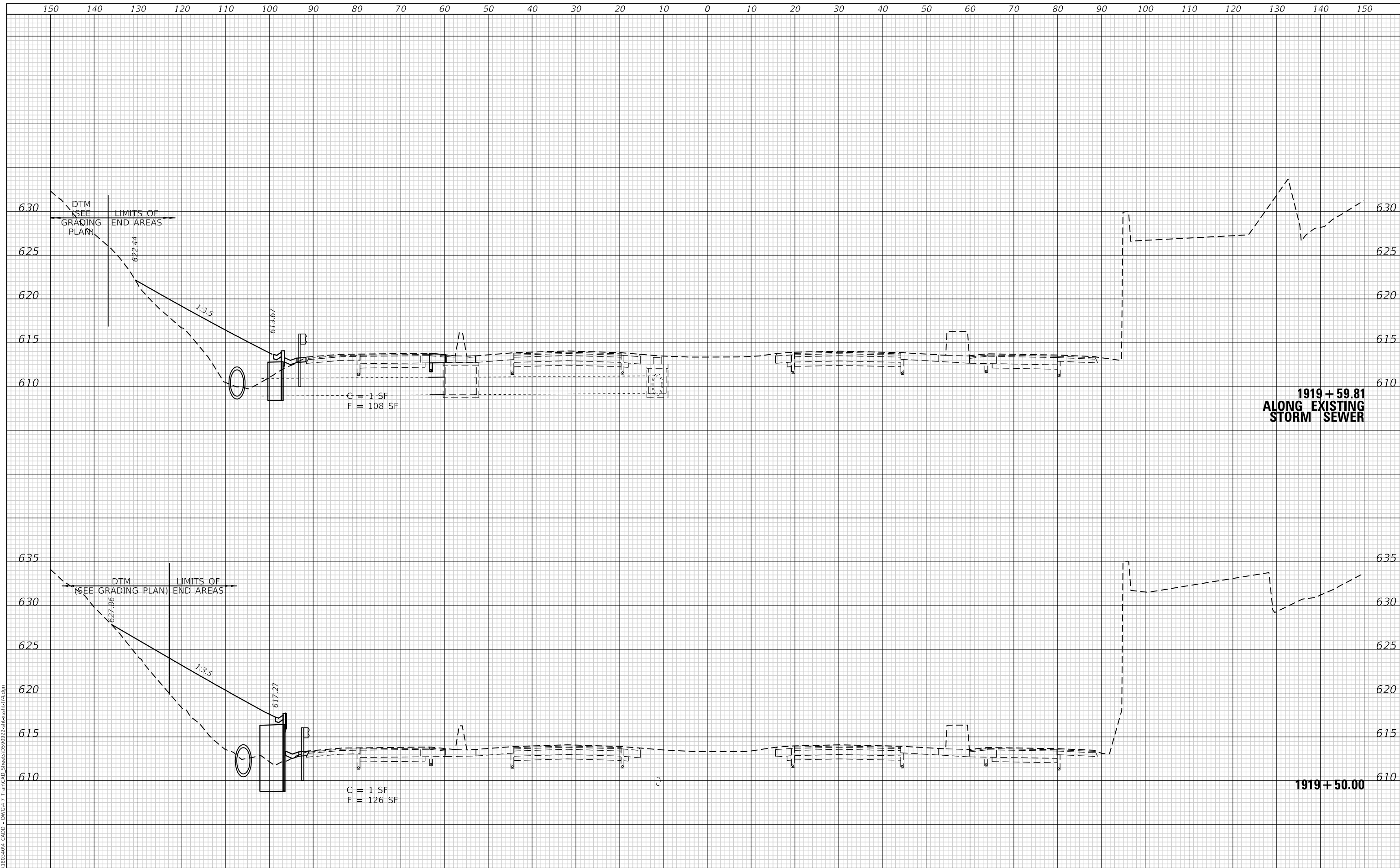
**CROSS SECTIONS
I-74**

SCALE: 1" = 10' SHEET 6 OF 9 SHEETS STA. 1918+50.00 TO STA. 1919+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	130
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

DATE	
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CROSS SECTIONS
 I-74

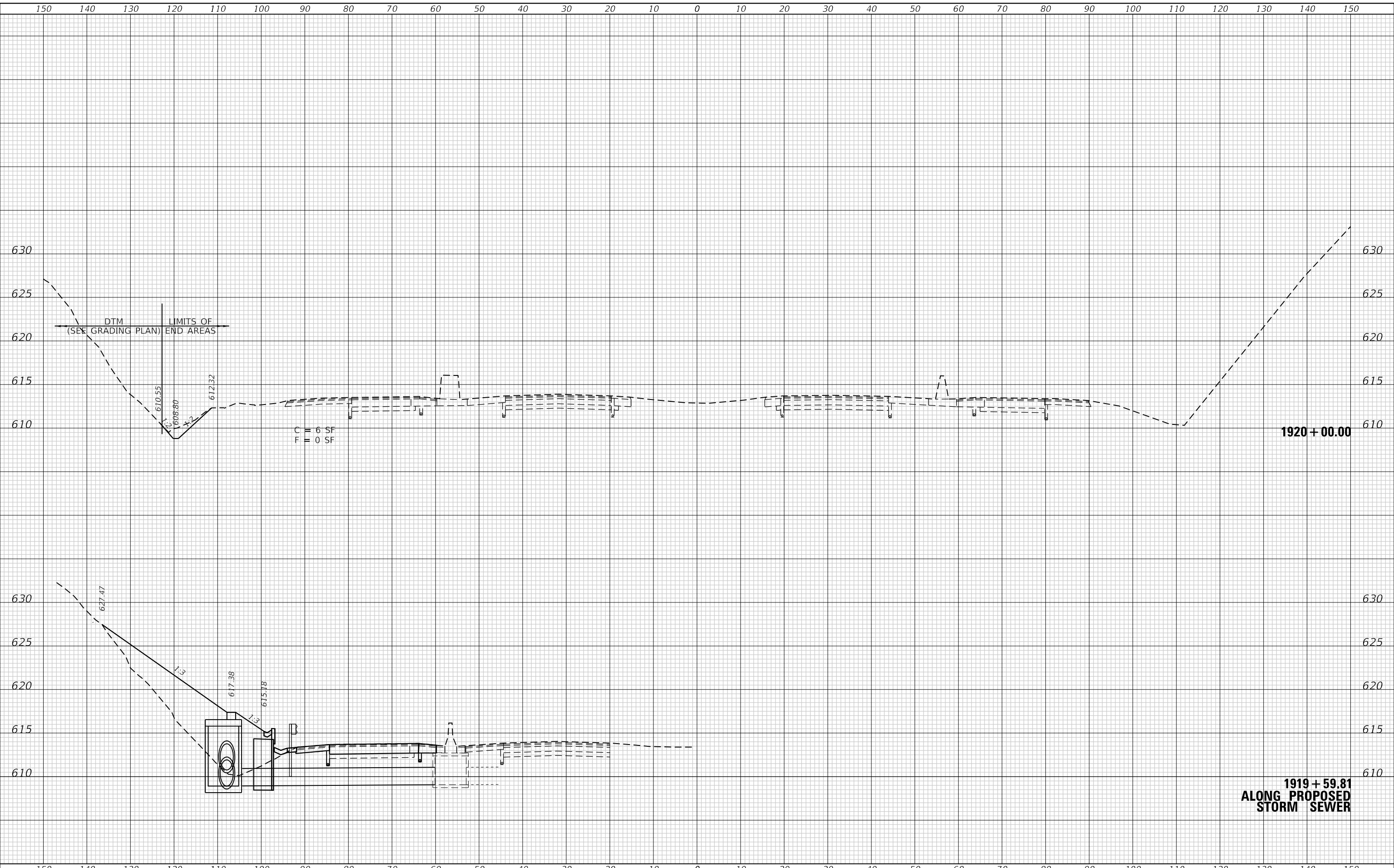
SCALE: 1" = 10' SHEET 7 OF 9 SHEETS STA. 1919+50.00 TO STA. 1919+59.81

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	131
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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C = 6 SF
 F = 0 SF

1920 + 00.00

1919 + 59.81
 ALONG PROPOSED
 STORM SEWER



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CROSS SECTIONS
 I-74

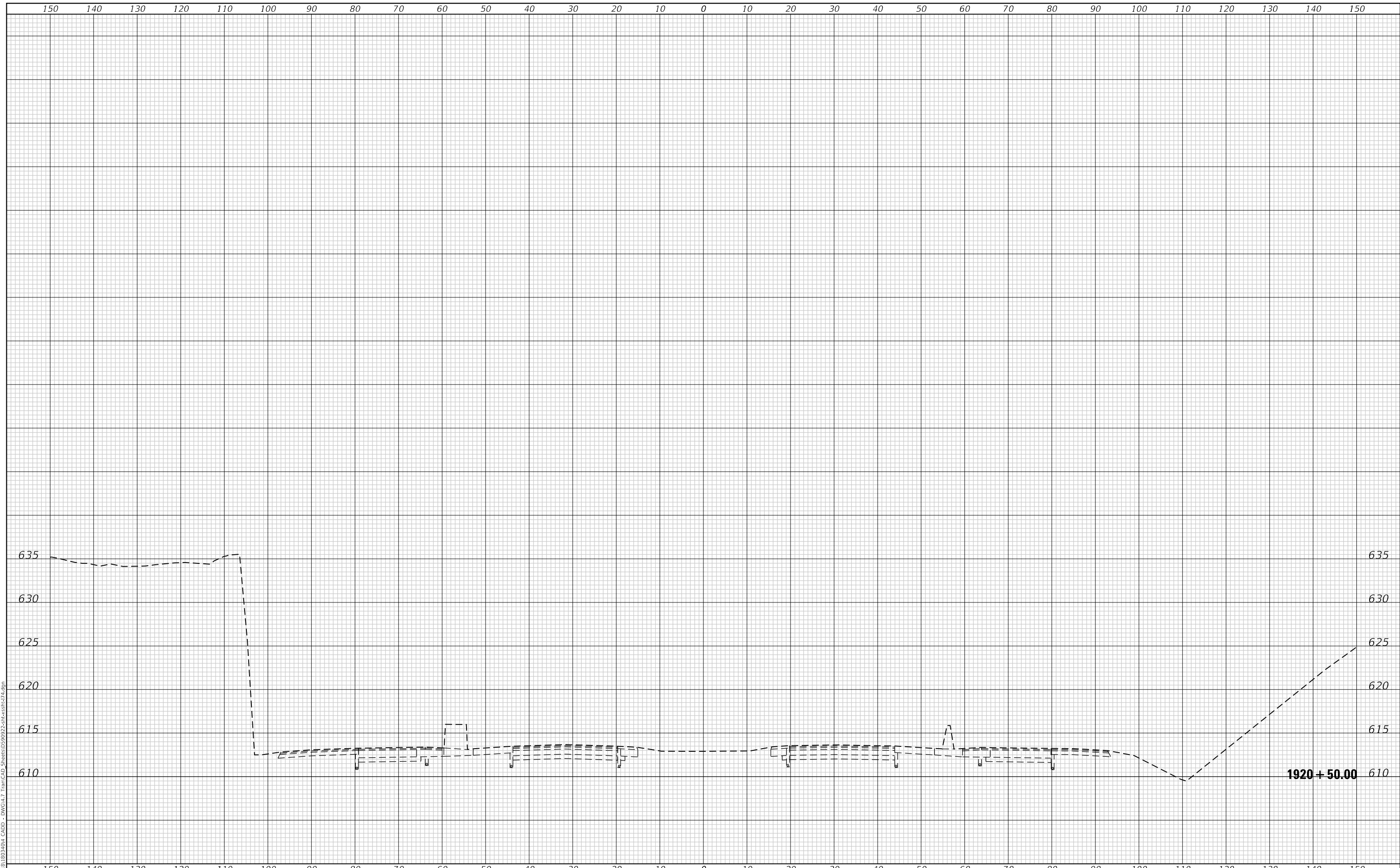
SCALE: 1" = 10' SHEET 8 OF 9 SHEETS STA. 1919+59.90 TO STA. 1920+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	132
			CONTRACT NO. 90922	
			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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**STATE OF ILLINOIS
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**CROSS SECTIONS
 I-74**

SCALE: 1" = 10' SHEET 9 OF 9 SHEETS STA. 1920+50.00 TO STA. 1920+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-11HB-4)BR	VERMILION	133	133
CONTRACT NO. 90922				
ILLINOIS FED. AID PROJECT				