



## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS & HIGHWAY STANDARDS
3	GENERAL NOTES
4-7	SUMMARY OF QUANTITIES
8	TYPICAL SECTIONS
9-11	SCHEDULE OF QUANTITIES
12-15	5'X3' BOX CULVERT (S.N. 071-1100) PLAN & PROFILE
16-17	STAGING PLANS
18-23	GENERAL PLAN & ELEVATION
24	CROSS SECTION & DETAILS
25	STRUCTURAL SLAB DETAILS
26	BAR SPLICER ASSEMBLY AND MECHANICAL
27	SPLICER DETAILS
28	8'X2' BOX CULVERT (S.N. 101-1019) PLAN & PROFILE
29-32	STAGING PLANS
33	STRUCTURAL SLAB DETAILS
34-41	IDOT DISTRICT 2 STANDARDS STANDARD 20.4 STANDARD 23.4 STANDARD 33.1 STANDARD 34.1 (4 SHEETS) STANDARD 37.4
42-46	CROSS SECTIONS (S.N. 071-1100)

## IDOT HIGHWAY STANDARDS

SHEET NO.	DESCRIPTION
000001-06	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
542401-02	METAL END SECTION FOR PIPE CULVERTS
630001-11	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO EXISTING CULVERT
630201-07	PCCHMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
635001-02	DELINEATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701316-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
701321-16	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720011-01	METAL POST FOR SIGNS, MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**KNIGHT**

Engineers & Architects

DESIGNED	REVISOR
CHECKED -	REVISION
DRAWN -	REVISION
DATE - Mar-16-2017 09:15:47 AM	REVISION

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND HIGHWAY STANDARDS**

DRAWING NO. 1 OF 1 DRAWINGS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	134.351CLV	Winnebago	46	2
CONTRACT NO. 64L44				
ILLINOIS FED. AID PROJECT				

# GENERAL NOTES

The removal of Bituminous Surfacing less than 6 inch thickness not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base or a thickness of 6 inches or more on a flexible base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top four inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1A. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Yard for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the EARTH EXCAVATION.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	SURFACE	HMA SHOULDERS	
		Top Lift	All Lower Lifts
PGs	64-22	64-22	64-22
Design Air Voids	4.0 @ N50	3.0 @ N50	3.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 9.5 or 9.5FG	IL 19
Friction Aggregate	C	C	N/A
20 Year ESAL	OC/OA	N/A	N/A
Mix Unit Weight		112 lbs/sy/in	
Quality Management Program to be Used			
Sublot Tonnage	N/A		

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

The contractor shall clean out all AR culverts and stream flows to the right lines on the entire section. The cost shall be included in the contract unit price for Concrete Box Culverts.

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

A quantity of 18 Cubic Yards of Furnished Excavation has been included to further build up the shoulders, if the Engineer determines that the excavated materials from the job are insufficient to bring the shoulders to the proper slope.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in the quantities for Furnished Excavations.

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him/her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

Pavement marking shall be done according to Standard 780001, except as follows:

- 1: All words, such as ONLY, shall be 8 feet high.
- 2: All non-freeway arrows shall be the large size.
- 3: The distance between yellow no -passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
- 4: Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison Co. 123 Energy Avenue Rockford, IL 61109 630-985-4043	NICOR Gas Company 1844 Ferry Road Naperville, IL 60563-9600 630-388-3046 Gas
--	---

Frontier Telephone 2239 Newburg Road Belvidere, IL 61008 815-544-6171	Comcast Cable TV 4450 Kishwaukee Street Rockford, IL 61109CATV
--	--

AT&T 1000 Commerce Drive Oak Brook, IL 60523 630-573-5465	City of Byron P.O. Box 916/232 W 2nd Street Byron, IL 61010 815-234-8724 Water & Sewer
--	---

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

Existing pavement marked for removal shall be saw-cut full-depth at the removal limits prior to removal. No extra compensation shall be allowed. The cost of the saw-cutting operation shall be included in the unit price bid per sq. yd. for PAVEMENT REMOVAL.

Relocate Temporary Impact Attenuators shall include storage and transportation to and from storage, when the device is not needed for a time, as shown on the staging plans. This shall be included in the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE of the type specified.

When Relocate Temporary Concrete Barrier is specified, the wall shall be removed, storage and transportation to and from storage, when the wall is not needed for a time as shown on the staging plans, relocated and reinstated at the new location. The reinstatement requirements shall be the same as those for a new installation. This shall be paid for at the contract unit price per Foot for RELOCATE TEMPORARY CONCRETE BARRIER.

The temporary concrete barrier shall be pinned to the pavement with three anchor pins per section on the traffic side of the barrier wall at the following locations:

Station: 1211+73 to 1211+98 (During stage 2 and 3)

The barrier unit at each end shall be anchored as specified in Article 704.04. All anchoring and pinning holes shall be core drilled.

SUMMARY OF QUANTITIES

100% URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE OGLE 0004	100% STATE WINNEBAGO 0004
20200100	EARTH EXCAVATION	CU YD	9	9	0
20400800	FURNISHED EXCAVATION	CU YD	21	21	0
20800150	TRENCH BACKFILL	CU YD	26	26	0
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60	0
28000400	PERIMETER EROSION BARRIER	FOOT	356	356	0
28100105	STONE RIPRAP, CLASS A3	SQ YD	16	16	0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	624	624	0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	224	224	0
40600990	TEMPORARY RAMP	SQ YD	54	23	31
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	35	31	4
44000100	PAVEMENT REMOVAL	SQ YD	54	23	31
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	222	222	0
50102400	CONCRETE REMOVAL	CU YD	4.7	4.7	0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	16.5	7.5	9.0

\* SPECIALTY ITEM

REV

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% STATE
				OGLE 0004	WINNEBAGO 0004
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4130	2240	1890
50800515	BAR SPLICERS	EACH	37	16	21
52200015	PERMANENT SHEET PILING	SQ FT	357	357	0
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	128	128	0
54003000	CONCRETE BOX CULVERTS	CU YD	5.4	5.4	0
54213870	STEEL END SECTIONS 15"	EACH	1	1	0
54248510	CONCRETE COLLAR	CU YD	0.40	0.40	0
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	10	10	0
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	12.5	12.5	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	0
63200310	GUARDRAIL REMOVAL	FOOT	225	225	0
63500105	DELINEATORS	EACH	4	4	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	0
67100100	MOBILIZATION	LUMP SUM	1	0.5	0.5

URBAN

14

\* SPECIALTY ITEM

REV

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% STATE
				OGLE 0004	WINNEBAGO 0004
70100100	TRAFFIC CONTROL AND PROTECTION STANDARD 701316	EACH	1	1	0
70100405	TRAFFIC CONTROL AND PROTECTION STANDARD 701321	EACH	1	0	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	5	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4''	FOOT	3038	2051	987
70300280	TEMPORARY PAVEMENT MARKING - LINE 24''	FOOT	52	26	26
70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325	0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	650	650	0
70600250	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2	2	0
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4	0
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	0
* 78001110	PAINT PAVEMENT MARKING - LINE 4''	FOOT	2768	1572	1196
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	1	1
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	0

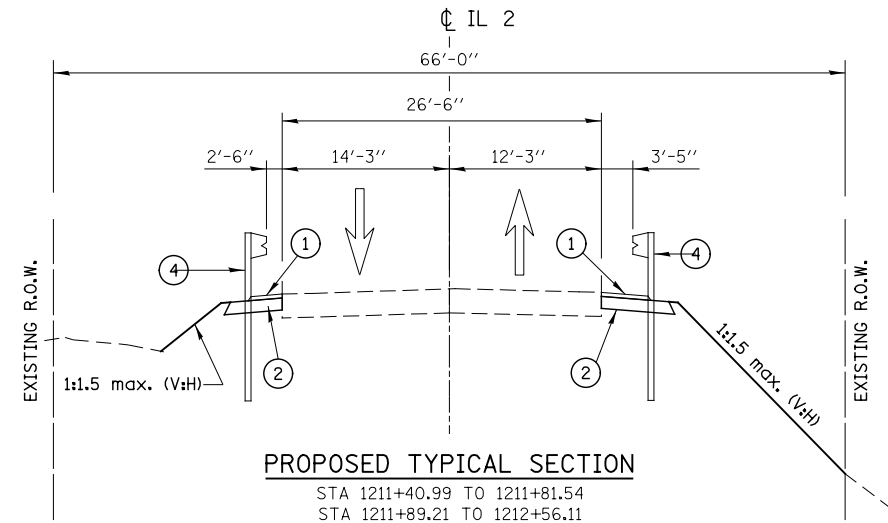
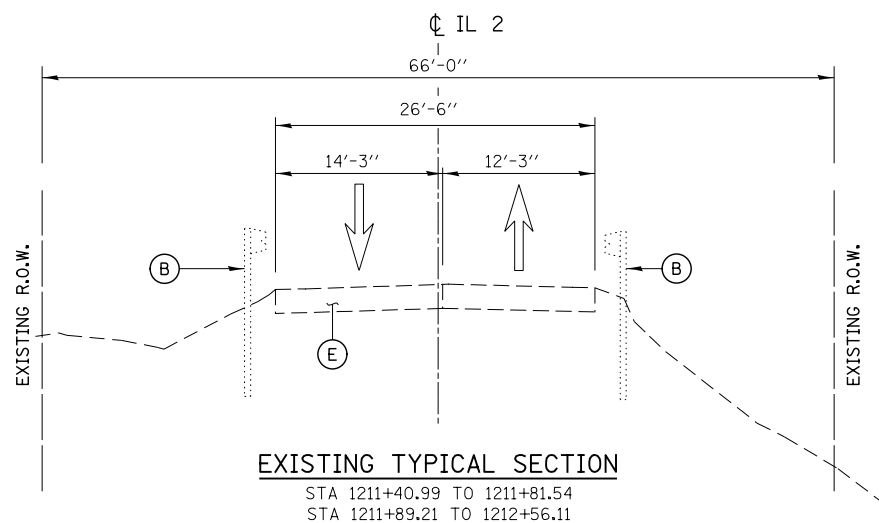
URBAN

14

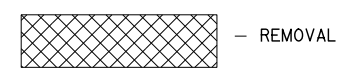
\* SPECIALTY ITEM

REV





**REMOVAL LEGEND**



**ILLINOIS ROUTE 2 - EXISTING LEGEND**

- (A) EXISTING 15" PAVEMENT TO BE REMOVED
- (B) EXISTING GUARDRAIL TO BE REMOVED
- (C) EXISTING GUARDRAIL TO REMAIN IN PLACE
- (D) EXISTING BOX CULVERT TO REMAIN IN PLACE
- (E) EXISTING PAVEMENT TO REMAIN IN PLACE

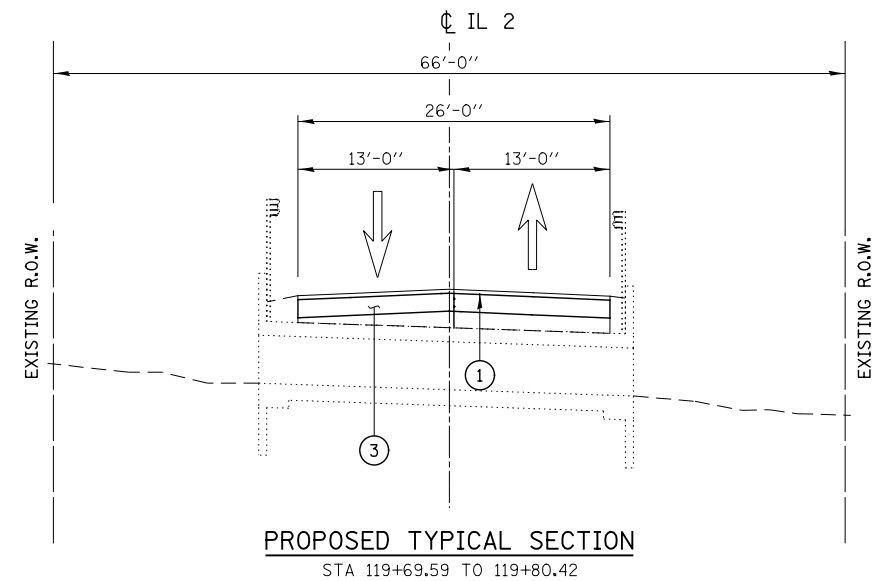
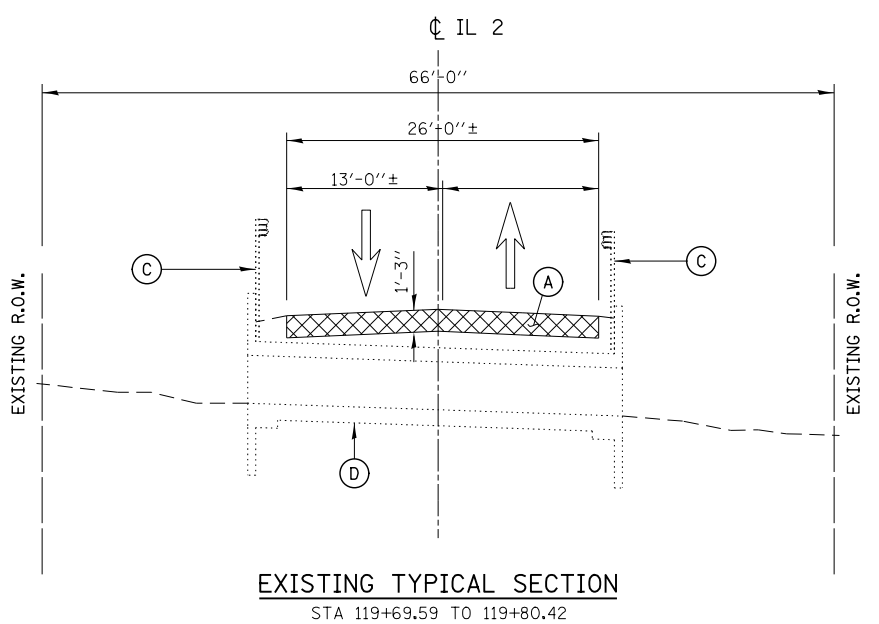
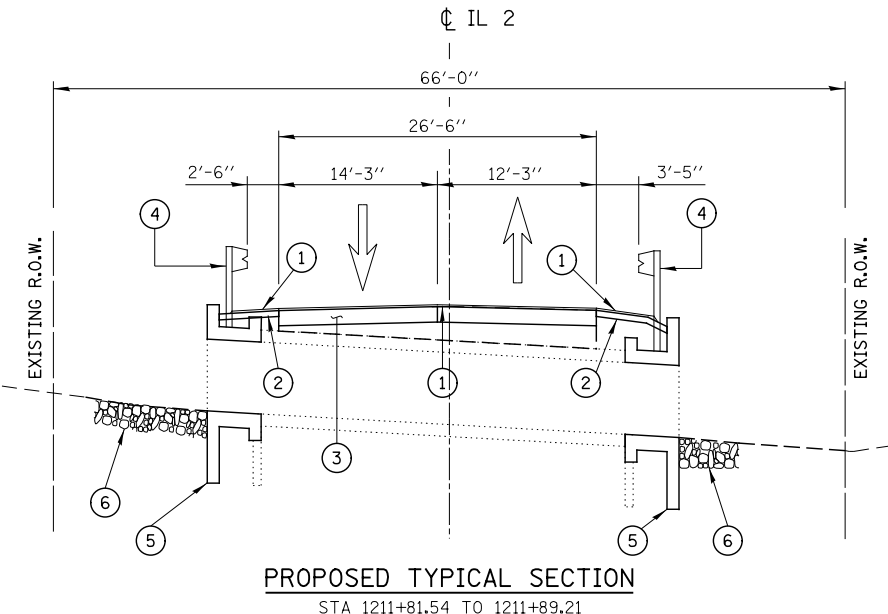
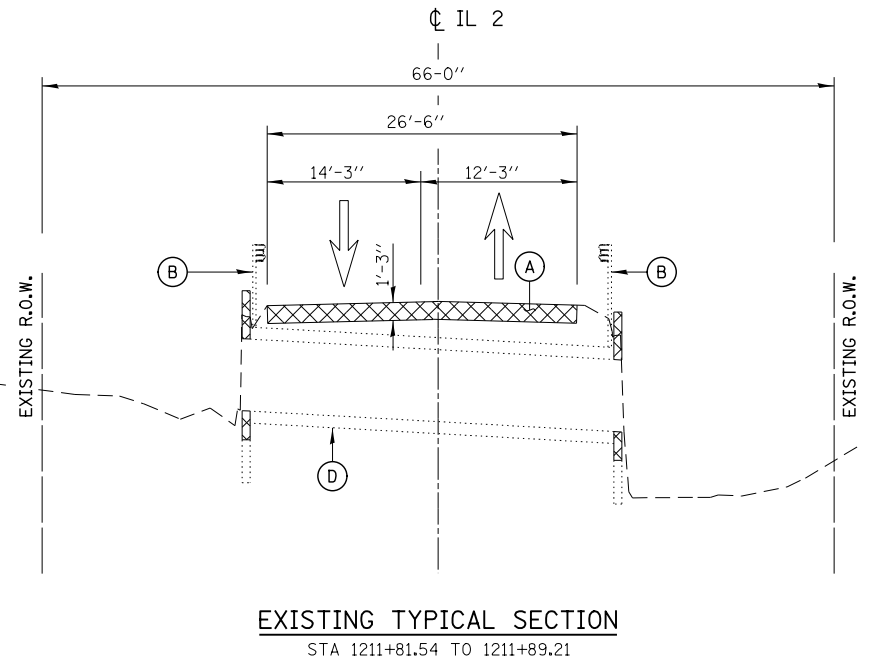
**NOTES:**

SEE CROSS SECTIONS FOR GRADING INFORMATION

ANY AGGREGATE NECESSARY FOR REBUILDING THE SHOULDER SHALL BE "AGGREGATE SHOULDERS, TYPE B" MEETING THE REQUIREMENTS OF SECTION 482 OF THE STANDARD SPECIFICATIONS. COST IS TO BE INCLUDED IN THE UNIT PRICE PER SQ. YD. FOR HOT-MIX ASPHALT SHOULDERS, 6 INCH.

**ILLINOIS ROUTE 2 - PROPOSED LEGEND**

- (1) 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- (2) HOT-MIX ASPHALT SHOULDERS, 6"
- (3) STRUCTURAL SLAB - CONCRETE SUPERSTRUCTURE
- (4) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (5) PROPOSED BOX CULVERT EXTENSION
- (6) PROPOSED STONE RIPRAP, CLASS A3

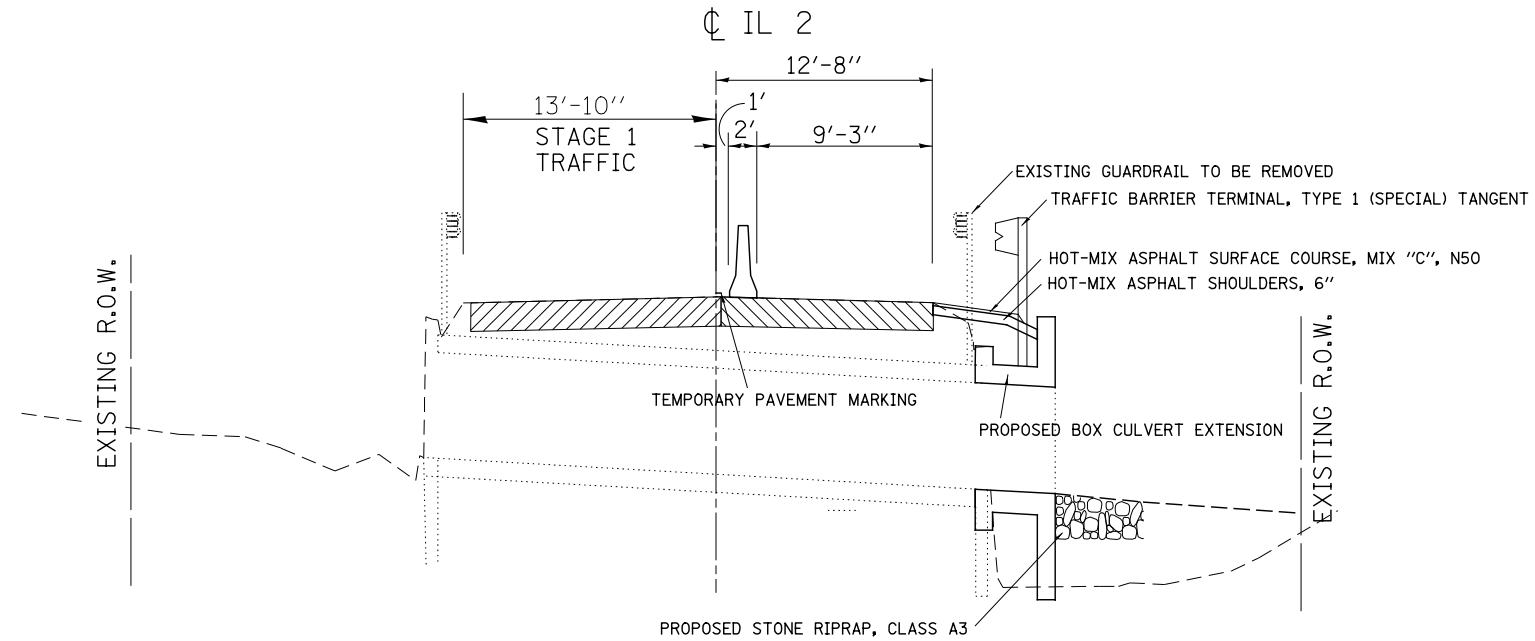




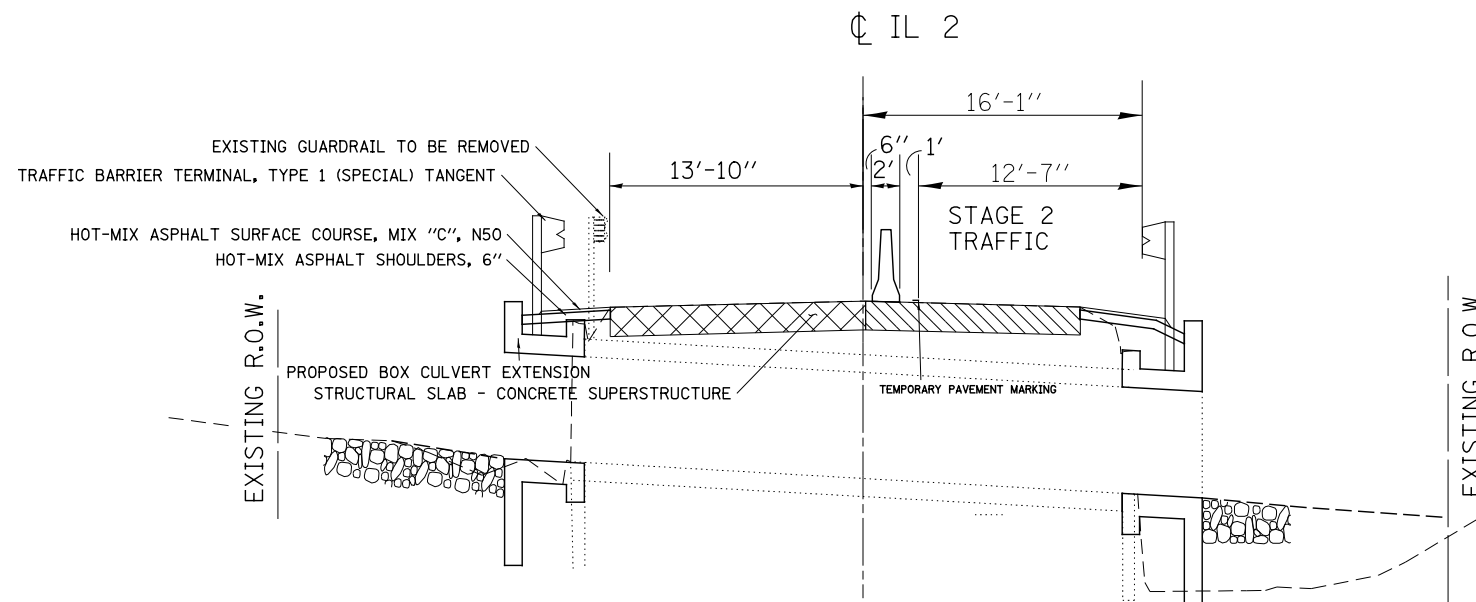
# STAGING TYPICAL SECTIONS

STA. 1211 + 81.54 TO 1211 + 89.21

## STAGE 1 CONSTRUCTION



## STAGE 2 CONSTRUCTION



- = EXISTING
- = REMOVAL

- HOT-MIX ASPHALT 112 LBS / SY / INCH
- \*\* MAINTAINING EXISTING CROSS SLOPE

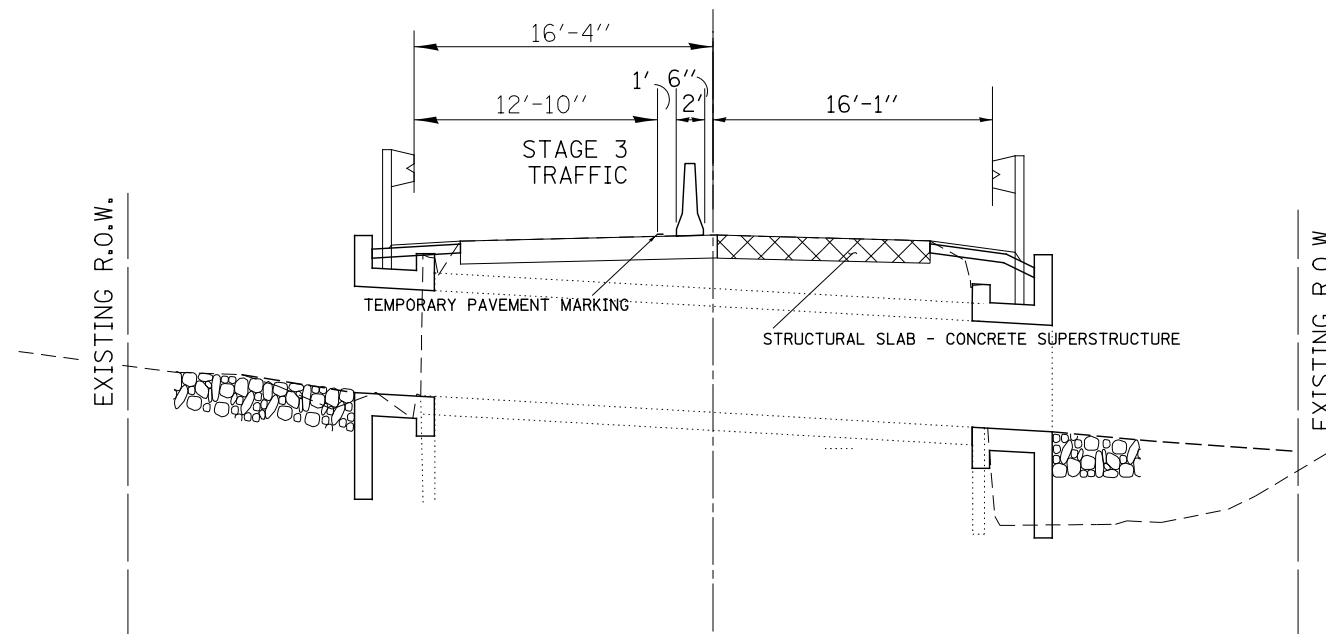
<b>KNIGHT</b> <small>Engineers &amp; Architects</small>	USER NAME = DCorroll	DESIGNED <i>FW</i>	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING TYPICAL SECTION SHEETS SN 101-1100</b>	F.A.P. RTE. 742	SECTION (34,35)CLV	COUNTY OGLE	TOTAL SHEETS 46	SHEET NO. 9
	PLOT SCALE = 1:100	DRAWN <i>DC</i>	REVISED -			SCALE:	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 64L44	
PLOT DATE = Invalid expression	CHECKED -	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



# STAGING TYPICAL SECTIONS

STA. 1211 + 81.54 TO 1211 + 89.21

## STAGE 3 CONSTRUCTION

CL IL 2



-  = EXISTING
-  = REMOVAL

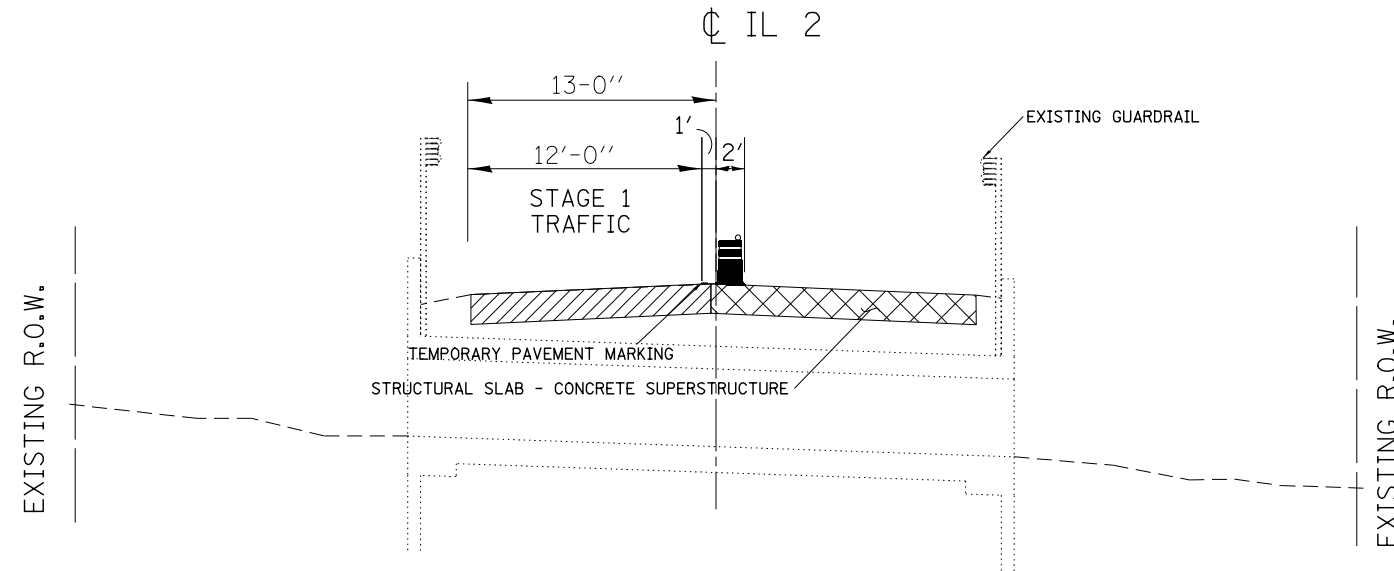
- HOT-MIX ASPHALT 112 LBS / SY / INCH
- \*\* MAINTAINING EXISTING CROSS SLOPE

 Engineers & Architects	USER NAME = DCorroll	DESIGNED FW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING TYPICAL SECTION SHEETS SN 101-1100		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN DC	REVISED -		742	(34,35)CLV	OGLE	46	10		
PLOT SCALE = 1:100	CHECKED -	REVISED -					CONTRACT NO. 64L44				
PLOT DATE = Invalid expression	DATE -	REVISED -			SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

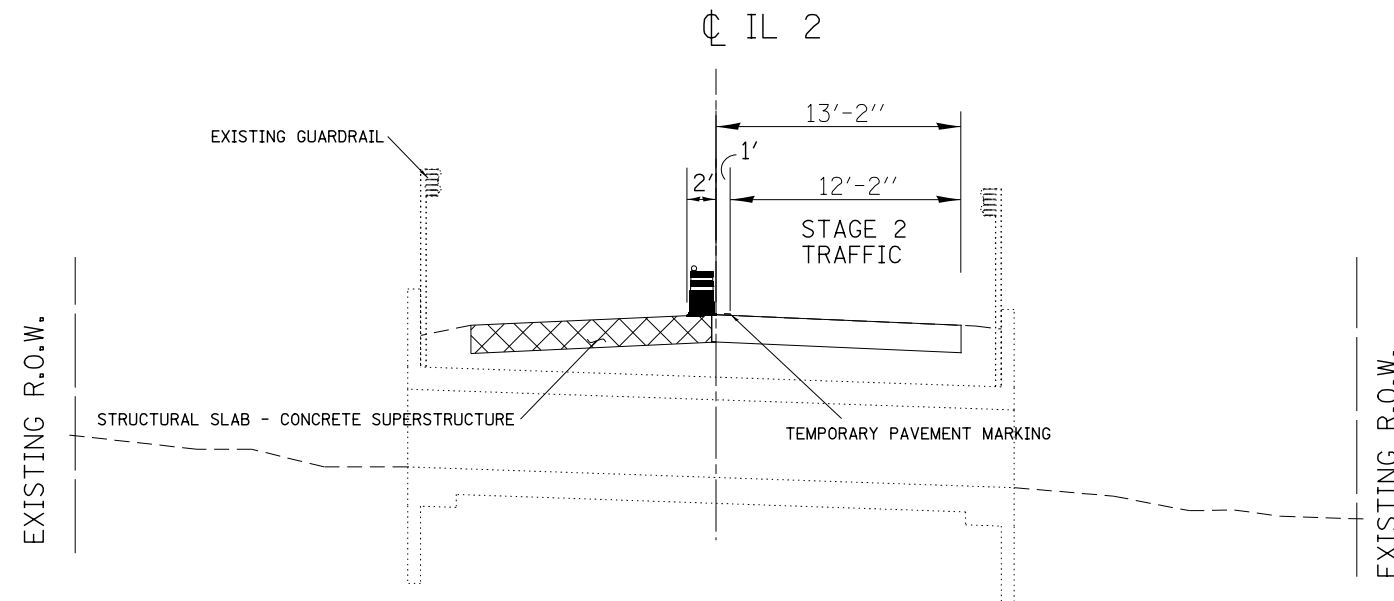
# STAGING TYPICAL SECTIONS



STA. 119 + 69.59 TO 119 + 80.42

## STAGE 1 CONSTRUCTION



## STAGE 2 CONSTRUCTION



-  = EXISTING
-  = REMOVAL

- HOT-MIX ASPHALT 112 LBS / SY / INCH
- \*\* MAINTAINING EXISTING CROSS SLOPE

USER NAME = dcorral	DESIGNED <i>FW</i>	REVISED -
	DRAWN <i>DC</i>	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = Invalid expression	DATE -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	WINNEBAGO	46	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L44	

# SCHEDULE OF QUANTITIES

28000305	TEMPORARY DITCH CHECKS LOCATION				FOOT
	STA 1211+45	26.5'	RT		15
	STA 1212+50	25'	RT		15
	STA 1211+50	20.5'	LT		15
	STA 1212+40	24'	LT		<u>15</u>
	TOTAL				60
28000400	PERIMETER EROSION BARRIER LOCATION				FOOT
	STA 1211+36 TO 1213+62		RT		237
	STA 1211+42 TO 1212+57		LT		<u>119</u>
	TOTAL				356
40600990	TEMPORARY RAMP LOCATION				SQ YD
	STA 1211+81.17 TO 1211+88.84			26	22.2
	STA 119+69.59 TO 119+80.42			26	<u>31.3</u>
	TOTAL				54
44000100	PAVEMENT REMOVAL LOCATION				SQ YD
	STA 1211+81.17 TO 1211+88.84			26	22.2
	STA 119+69.59 TO 119+80.42			26	<u>31.3</u>
	TOTAL				54
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS LOCATION				FOOT
	STA 1211+92 TO 1212+04.5		RT		<u>12.5</u>
	TOTAL				12.5
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT LOCATION				EACH
	STA 1211+42 TO 1211+92		RT		1
	STA 1212+04.5 TO 1212+54.5		RT		1
	STA 1211+47 TO 1211+97		LT		1
	STA 1211+97 TO 1212+47		LT		<u>1</u>
	TOTAL				4
63200310	GUARDRAIL REMOVAL LOCATION				FOOT
	STA 1211+40 TO 1211+65		RT		125.0
	STA 1211+51 TO 1212+51		LT		<u>100.0</u>
	TOTAL				225

63500105	DELINEATORS LOCATION				EACH
	STA 1214+15	LT			1
	STA 1212+54.5	RT			1
	STA 1210+00	LT			1
	STA 1209+67	RT			<u>1</u>
	TOTAL				4
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS LOCATION				EACH
	STA 1211+85				1
	STA 119+75				<u>1</u>
	TOTAL				2
70300220	TEMPORARY PAVEMENT MARKING - LINE 4" REMARKS LOCATION				FOOT
	Stage 1				
	STA 1208+50 TO 1208+73		RT		23
	STA 1208+73 TO 1208+83		RT		10
	STA 1208+83 TO 1210+86				203
	STA 1210+86 TO 1213+60				275
	STA 1213+60 TO 1214+15				55
	STA 1214+15 TO 1214+60		RT		45
	STA 1214+60 TO 1215+60		RT		100
	Stage 2				
	STA 1209+47 TO 1210+48		LT		101
	STA 1210+48 TO 1210+97		LT		49
	STA 1210+97 TO 1213+23		RT		226
	STA 1213+23 TO 1215+74		RT		251
	Stage 3				
	STA 1208+50 TO 1208+96		RT		46
	STA 1208+96 TO 1210+97		RT		201
	STA 1210+97 TO 1211+47				50
	STA 1211+47 TO 1213+60				213
	STA 1213+60 TO 1214+11				51
	STA 1214+11 TO 1214+64		RT		53
	STA 1214+64 TO 1215+63		RT		99
	Stage 1				
	STA 117+00 TO 117+15		RT		15
	STA 117+15 TO 119+15		RT		200
	STA 119+15 TO 120+26				111
	STA 120+26 TO 121+76				150

# SCHEDULE OF QUANTITIES

	Stage 2				
	STA 117+65 TO 119+15 RT			150	
	STA 119+15 TO 120+26 RT			111	
	STA 120+26 TO 122+26			200	
	STA 122+26 TO 122+76 RT			50	
	TOTAL			3,038	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"				
	LOCATION			FOOT	
	STA 1208+73 RT			13	
	STA 1216+20 LT			13	
	STA 117+05 RT			13	
	STA 122+28 LT			13	
	TOTAL			52	
70400100	TEMPORARY CONCRETE BARRIER				
	LOCATION			FOOT	
	STA 1210+93 TO 1211+35 RT			50	
	STA 1211+35 TO 1213+60 RT			225	
	STA 1213+60 TO 1214+10 LT			50	
	TOTAL			325	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER				
	LOCATION			FOOT	
	STA 1210+93 TO 1211+35 RT			100	
	STA 1211+35 TO 1213+60 RT			450	
	STA 1213+60 TO 1214+10 LT			100	
	TOTAL			650	
70600250	IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3				
	LOCATION			EACH	
	STA 1210+59 TO 1210+84 RT			1	
	STA 1214+12 TO 1214+27 LT			1	
	TOTAL			2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, TEST LEVEL 3				
	LOCATION			EACH	
	STA 1210+59 TO 1210+84 RT			2	
	STA 1214+12 TO 1214+27 LT			2	
	TOTAL			4	
72501000	TERMINAL MARKER - DIRECT APPLIED				
	LOCATION			EACH	
	STA 1211+42 RT			1	
	STA 1212+54.5 RT			1	
	STA 1211+47 LT			1	
	STA 1212+47 LT			1	
	TOTAL			4	
78001110	PAINT PAVEMENT MARKING - LINE 4"				
	LOCATION			CL	FOOT
	STA 1208+50 TO 1216+20			DOUBLE SOLID (YELLOW)	1540
	STA 117+00 TO 122+76				1152
	SUB TOTAL				2,692
	LOCATION			EOP	FOOT
	STA 1211+81 TO 1211+89 RT			SOLID (WHITE)	16
	STA 119+69 TO 119+80 RT				22
	STA 1211+81 TO 1211+89 LT				16
	STA 119+69 TO 119+80 LT				22
	SUB TOTAL				76
	TOTAL				2768
78100100	RAISED REFLECTIVE PAVEMENT MARKER				
	LOCATION			EACH	
	STA 1211+70			1	
	STA 119+40			1	
	TOTAL			2	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL				
	LOCATION			EACH	
	STA 1211+70			1	
	STA 119+40			1	
	TOTAL			2	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING				
	LOCATION			REMARKS	SQ FT
	STA 1208+50 TO 1216+20			CL (YELLOW)	513
	STA 117+00 TO 122+76			DOUBLE SOLID	384
	STA 1208+50 TO 1208+73			Stage 1 (WHITE)	8
	STA 1208+73 TO 1208+83			SOLID	3
	STA 1208+83 TO 1210+86				68
	STA 1210+86 TO 1213+60				92
	STA 1213+60 TO 1214+15				18
	STA 1214+15 TO 1214+60				15
	STA 1214+60 TO 1215+60				33
	STA 1209+47 TO 1210+48			Stage 2 (WHITE)	34
	STA 1210+48 TO 1210+97			SOLID	16
	STA 1210+97 TO 1213+23				75
	STA 1213+23 TO 1215+74				84

# SCHEDULE OF QUANTITIES

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL CONT'D

STA	1208+50	TO	1208+96	Stage 3	(WHITE)	15	
STA	1208+96	TO	1210+97	SOLID		67	
STA	1210+97	TO	1211+47			17	
STA	1211+47	TO	1213+60			71	
STA	1213+60	TO	1214+11			17	
STA	1214+11	TO	1214+64			18	
STA	1214+64	TO	1215+63			33	
STA	117+00	TO	117+15	Stage 1	(WHITE)	5	
STA	117+15	TO	119+15	SOLID		67	
STA	119+15	TO	120+26			37	
STA	120+26	TO	121+76			50	
STA	117+65	TO	119+15	Stage 2	(WHITE)	50	
STA	119+15	TO	120+26	SOLID		37	
STA	120+26	TO	122+26			67	
STA	122+26	TO	122+76			17	
STA	1208+73	RT		Stop Bar	(WHITE)	26	
STA	1216+20	LT		SOLID		26	
STA	117+05	RT				26	
STA	122+28	LT				26	
						TOTAL	2,015

X7040125

PINNING TEMPORARY CONCRETE BARRIER LOCATION				REMARKS	EACH		
STA	1210+93	RT		Stage 1	9		
STA	1214+10	RT			9		
STA	1210+85	LT		Stage 2	9		
STA	1213+37	LT			9		
STA	1210+90	RT		Stage 3	9		
STA	1214+10	RT			9		
						TOTAL	54

# SCHEDULE OF QUANTITIES

## AGGREGATE AND HMA SHOULDER

LOCATION		REMARKS	LENGTH	SHOULDER		BIT MATL'S (PRIME COAT) for agg or dirt bases, @ 0.25lb/sq ft	BIT MATL'S (TACK COAT) for HMA @ 0.05 lb/sq ft, 2 lifts	2" HMA SURF COURSE MIX "C" N50	HOT-MIX ASPHALT SHOULDERS, 6"	
				HMA						
STATION TO STATION			WIDTH	AREA						
			FT	SQ YD	FT	SQ YD	POUND	POUND	TON	SQ YD
1211+37	- 1213+61	SHOULDER RT	224	6	149.3	420.0	134.4	18.8	149.3	
1211+81	- 1211+89	STRUCTURAL SLAB	7.67	26	---		10.0	2.8		
1211+43	- 1212+52	SHOULDER LT	109	6	72.7	204.4	65.4	9.2	72.7	
119+70	- 119+80	STRUCTURAL SLAB	10.83	26	-		14.1	3.9	-	
<b>IL 2 SHLDR TOTALS</b>					222	624	224	35	222	

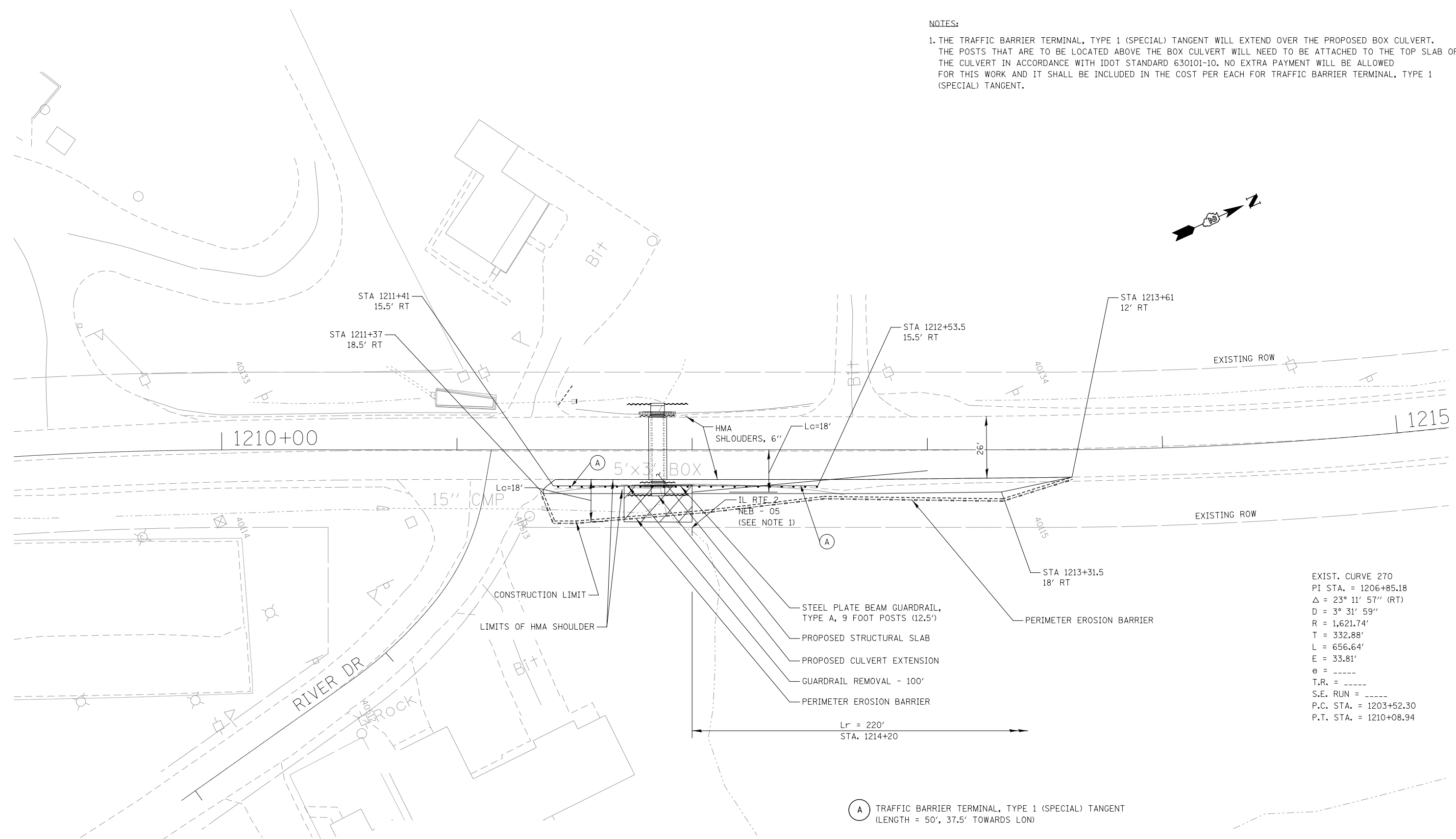
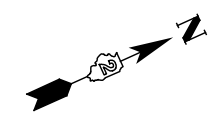
- = ONLY 1 LIFT
- = 2ND LIFT IS AT 0.025 LBS/SF (TOTAL 0.075)

CONTR #: 64J41										
EARTH WORK SCHEDULE										
LOCATION				EARTH EXC (CUT) CU YD	EARTH EXC ADJ SHRINK 25% CU YD	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD		EARTH EXC (CUT) CU YD	EARTH EXC ADJ SHRINK 25% CU YD	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD
1211 + 13	-	1211 + 42	+ 00	1	1	-3		1	1	4
1211 + 42	-	1211 + 51		1	1	-3		1	1	3
1211 + 51	-	1211 + 63		1	1	-8		1	1	9
1211 + 63	-	1211 + 75		1	1	-14		1	1	15
1211 + 75	-	1211 + 85		0	0	-7		0	0	8
1211 + 85	-	1212 + 6		1	1	-4		1	1	5
1212 6		1212 51		4	3	-7		4	3	10
<b>TOTAL</b>				<b>9</b>	<b>7</b>	<b>-47</b>		<b>9</b>	<b>7</b>	<b>54</b>

NOTE:  
 FURNISHED EXCAVATION WAS CALCULATED USING THE  
 FILL REQUIRED, MINUS THE ADJUSTED EARTH  
 EXCAVATION AND TRENCH BACKFILL.  
 (I.E. FURNISHED EXCAVATION = 54-(7+26) = 21 CU YD)

**NOTES:**

1. THE TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT WILL EXTEND OVER THE PROPOSED BOX CULVERT. THE POSTS THAT ARE TO BE LOCATED ABOVE THE BOX CULVERT WILL NEED TO BE ATTACHED TO THE TOP SLAB OF THE CULVERT IN ACCORDANCE WITH IDOT STANDARD 630101-10. NO EXTRA PAYMENT WILL BE ALLOWED FOR THIS WORK AND IT SHALL BE INCLUDED IN THE COST PER EACH FOR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT.



EXIST. CURVE 270  
 PI STA. = 1206+85.18  
 $\Delta$  = 23° 11' 57'' (RT)  
 D = 3° 31' 59''  
 R = 1,621.74'  
 T = 332.88'  
 L = 656.64'  
 E = 33.81'  
 e = ---  
 T.R. = ---  
 S.E. RUN = ---  
 P.C. STA. = 1203+52.30  
 P.T. STA. = 1210+08.94

**A** TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT  
 (LENGTH = 50', 37.5' TOWARDS LON)

ADT = 9000 (2015) / 11,850 (2030)  
 POSTED SPEED = 55 MPH  
 NOTE POSTED SPEED USED FOR LON CALCULATION IN LIEU OF DESIGN SPEED (PER BDE CH. 49, RURAL 3R)



**KNIGHT**  
 Engineers & Architects

DESIGNED - FW	REVISED
CHECKED -	REVISED
DRAWN - DC	REVISED
CHECKED -	REVISED
SCALE - NONE	
DATE - 1/26/2017	

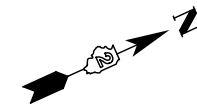
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 2 (SN 071-1100) PLAN & PROFILE**  
**STRUCTURE NUMBER 071-1100**

DRAWING NO. 1 OF 11 DRAWINGS

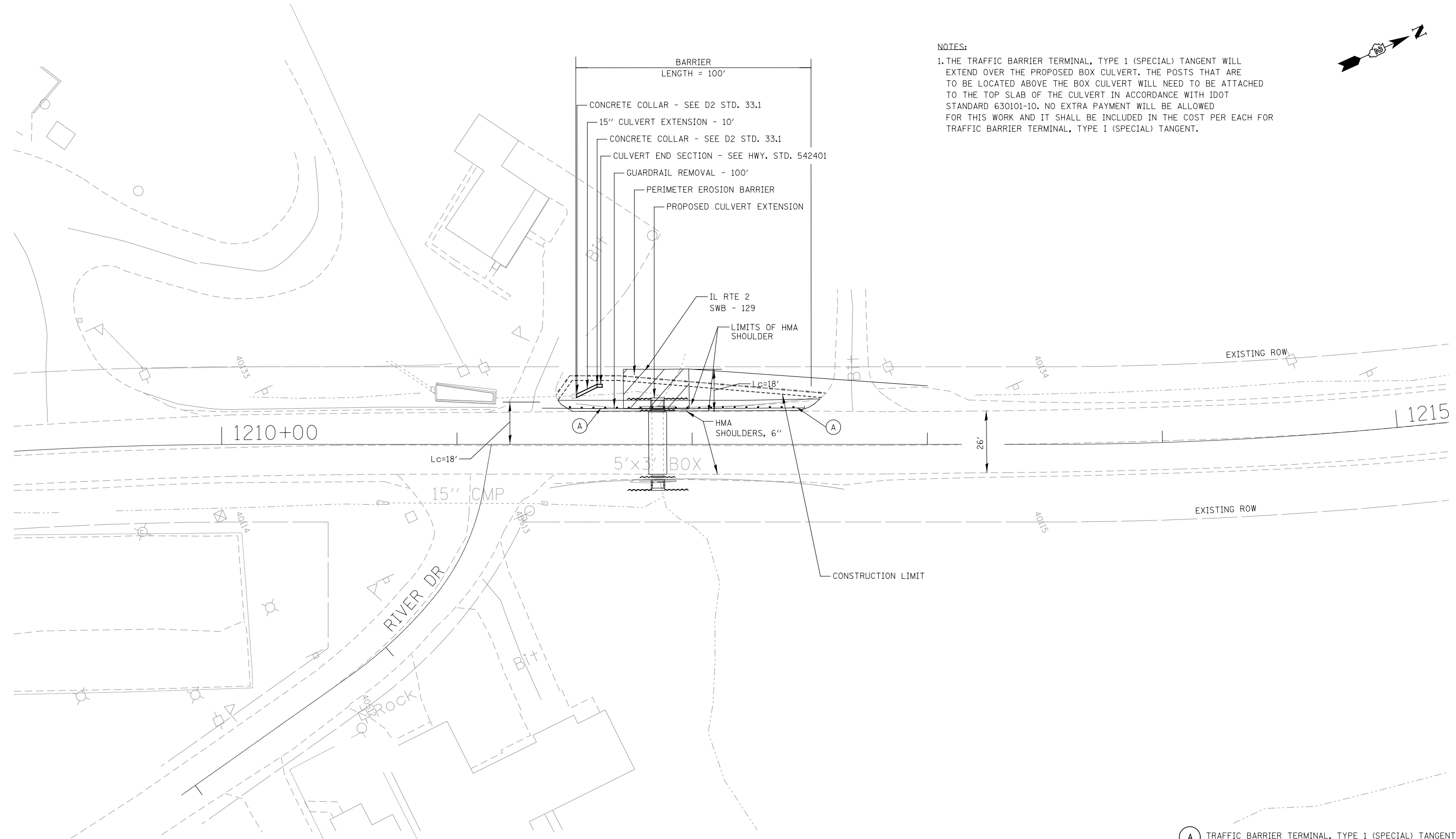
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	Ogle	46	16
CONTRACT NO. 64L44				
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. THE TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT WILL EXTEND OVER THE PROPOSED BOX CULVERT. THE POSTS THAT ARE TO BE LOCATED ABOVE THE BOX CULVERT WILL NEED TO BE ATTACHED TO THE TOP SLAB OF THE CULVERT IN ACCORDANCE WITH IDOT STANDARD 630101-10. NO EXTRA PAYMENT WILL BE ALLOWED FOR THIS WORK AND IT SHALL BE INCLUDED IN THE COST PER EACH FOR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT.



ADT = 9000 (2015) / 11,850 (2030)  
 POSTED SPEED = 55 MPH  
 NOTE POSTED SPEED USED FOR LON CALCULATION IN LIEU OF DESIGN SPEED (PER BDE CH. 49, RURAL 3R)

(A) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT  
 (LENGTH = 50', 37.5' TOWARDS LON)



**KNIGHT**  
 Engineers & Architects

DESIGNED - FW	REVIS
CHECKED -	REVIS
DRAWN - DC	REVIS
CHECKED -	REVIS
SCALE - NONE	
DATE - 1/26/2017	

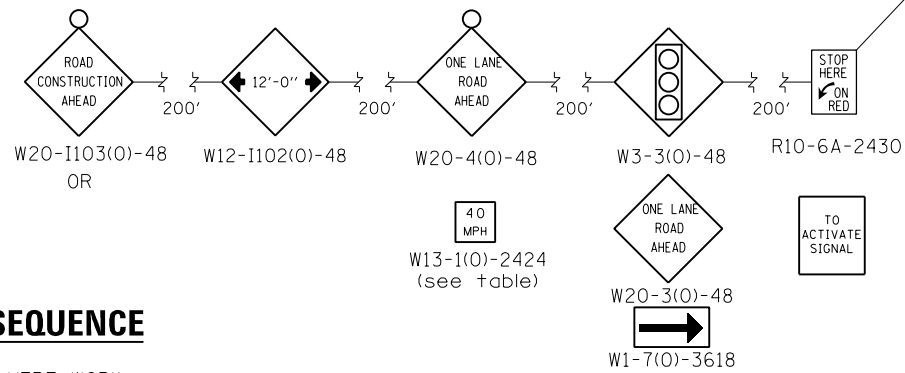
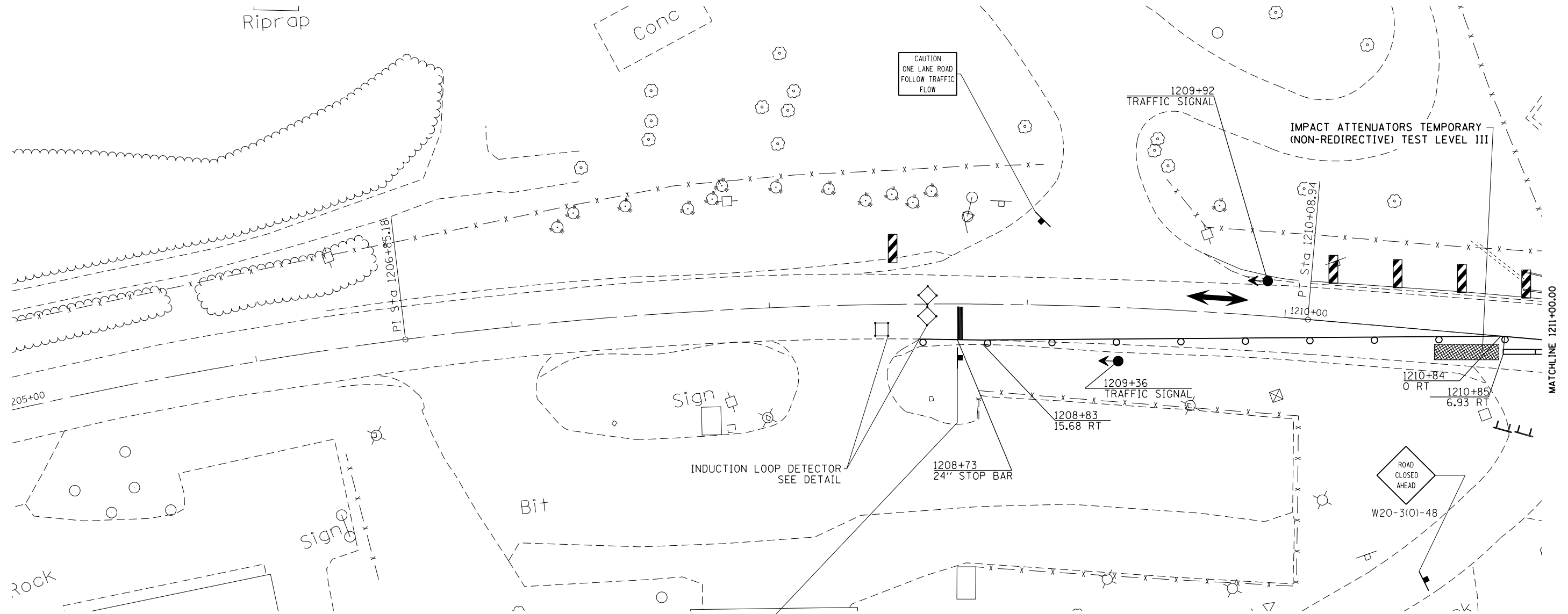
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 2 (SN 071-1100) PLAN & PROFILE**  
**STRUCTURE NUMBER 071-1100**

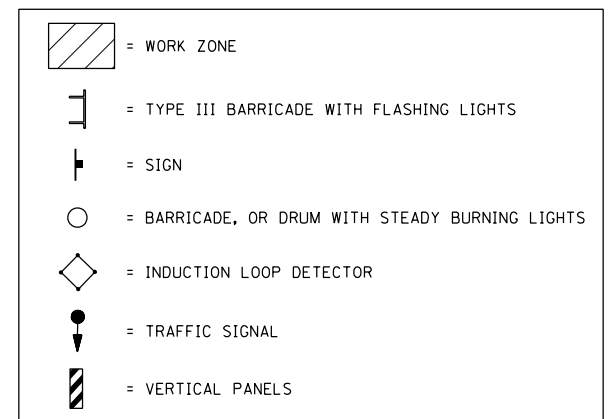
DRAWING NO. 2 OF 11 DRAWINGS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	Ogle	46	17
CONTRACT NO. 64L44				
ILLINOIS FED. AID PROJECT				

# STAGE 1



EXIST. CURVE 0270  
 PI STA. = 1206+85.18  
 $\Delta = 23^\circ 11' 57''$  (RT)  
 $D = 3^\circ 31' 59''$   
 $R = 1,621.74'$   
 $T = 332.88'$   
 $L = 656.64'$   
 $E = 33.81'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 1203+52.30$   
 $P.T. STA. = 1210+08.94$

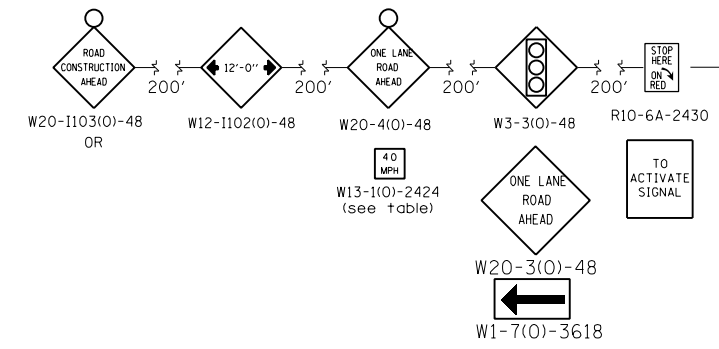
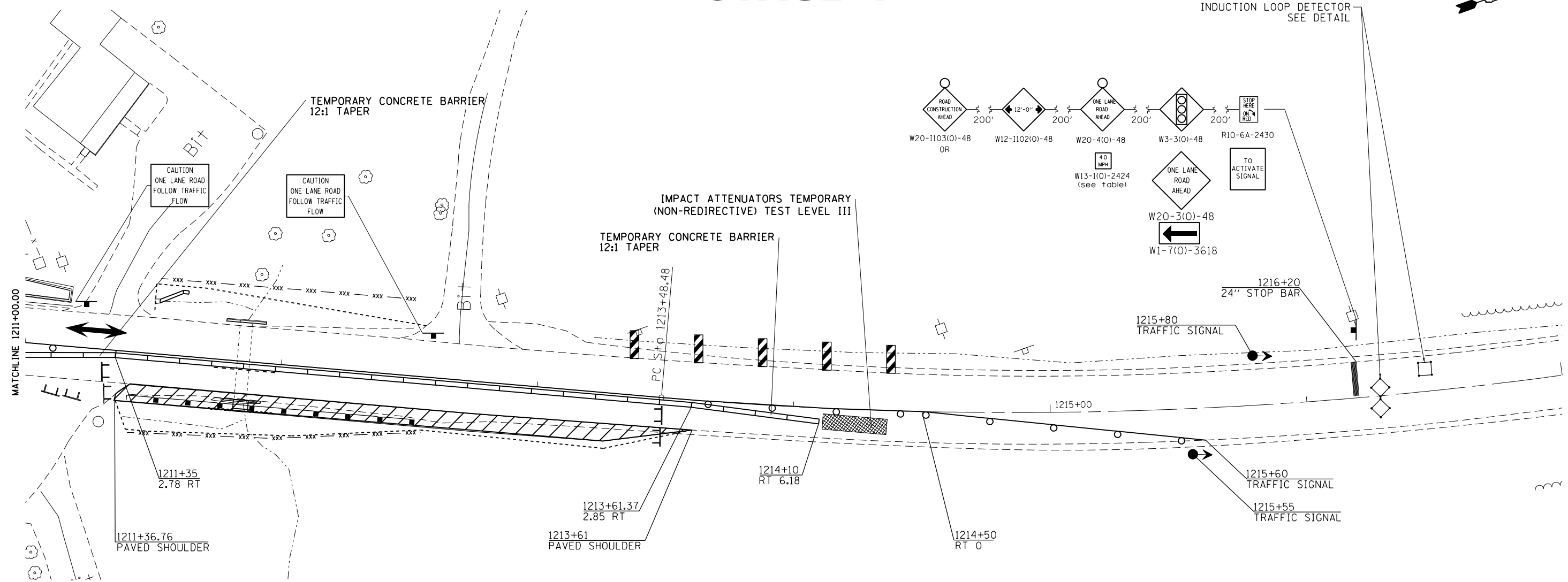
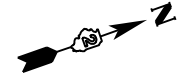


## STAGE 1 NOTES AND SEQUENCE

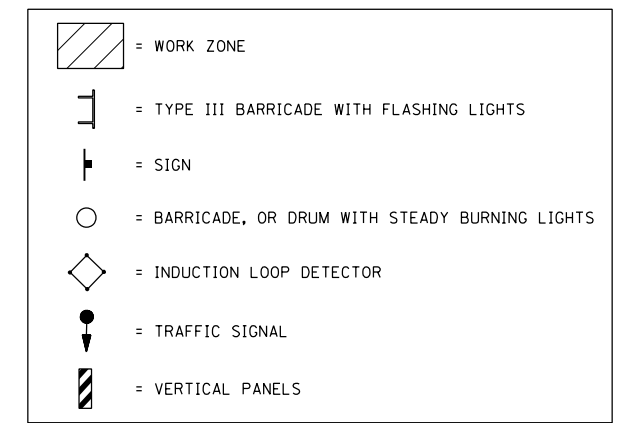
1. USE STANDARD 701321 FOR CULVERT WORK.
2. OFFSET TEMPORARY PAVEMENT MARKINGS TO LINE UP ON THE CURRENT CENTERLINE.
3. PLACE SHEET PILING.
4. CONSTRUCT CULVERT EXTENSIONS. GRADE AND SHAPE SLOPES.
5. PLACE PROPOSED SHOULDERS RT FROM STA 1211+36.76 TO STA 1213+07.
6. CONSTRUCT GUARDRAIL.
7. SWITCH TO STAGE II

FILE NAME =	USER NAME = sorrelltj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2 STAGING DETAIL SHEETS SN 071-1100</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			742	(34,35)CLV	OGLE/WINNE	46	18	
	PLOT DATE = Mar-16-2017 02:18:50 PM	DATE -	REVISED -			CONTRACT NO. 64L44					
						ILLINOIS FED. AID PROJECT					

# STAGE 1



EXIST. CURVE 0280  
 PI STA. = 1217+22.66  
 $\Delta = 26^\circ 33' 28''$  (LT)  
 $D = 3^\circ 36' 49''$   
 $R = 1,585.53'$   
 $T = 374.19'$   
 $L = 734.92'$   
 $E = 43.56'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 1213+48.48$   
 $P.T. STA. = 1220+83.40$

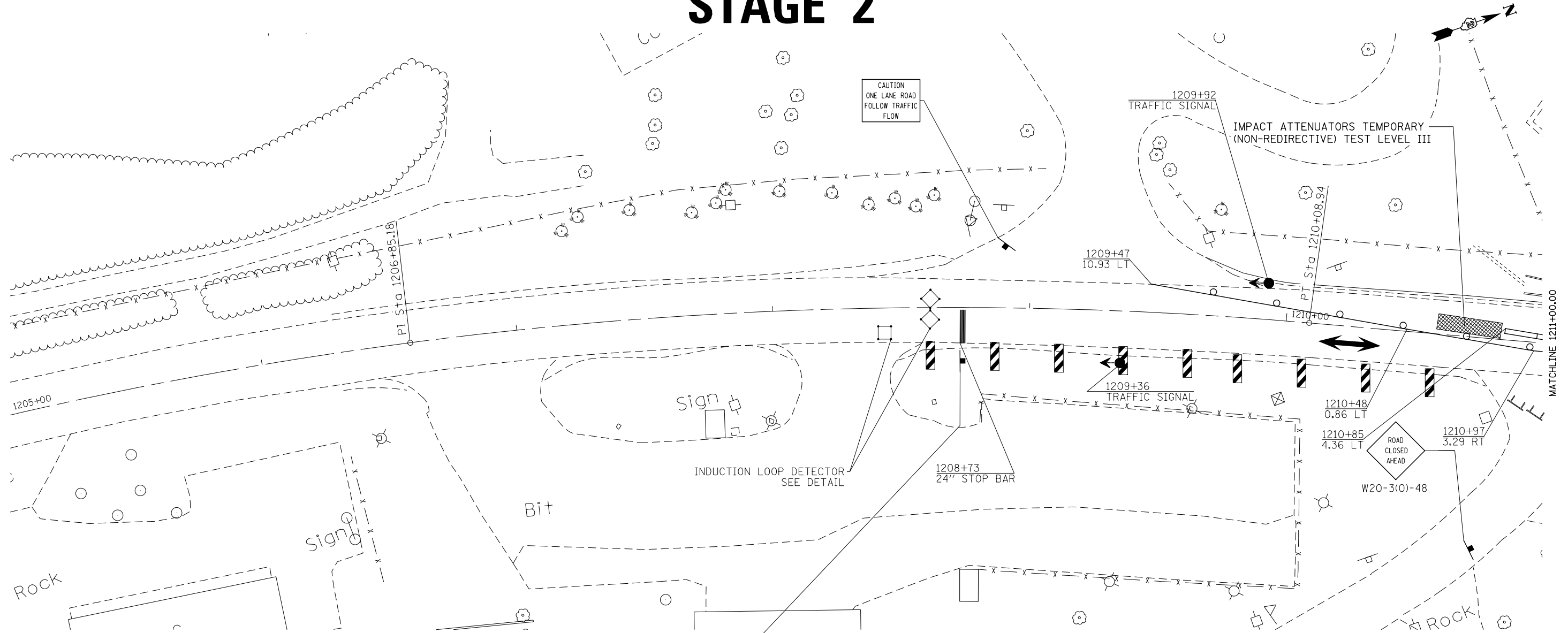


## STAGE 1 NOTES AND SEQUENCE

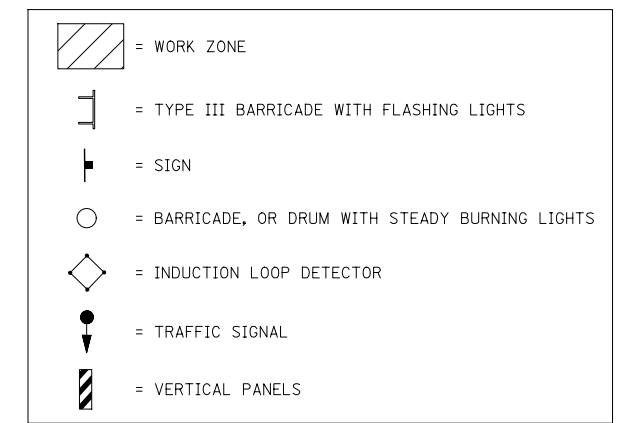
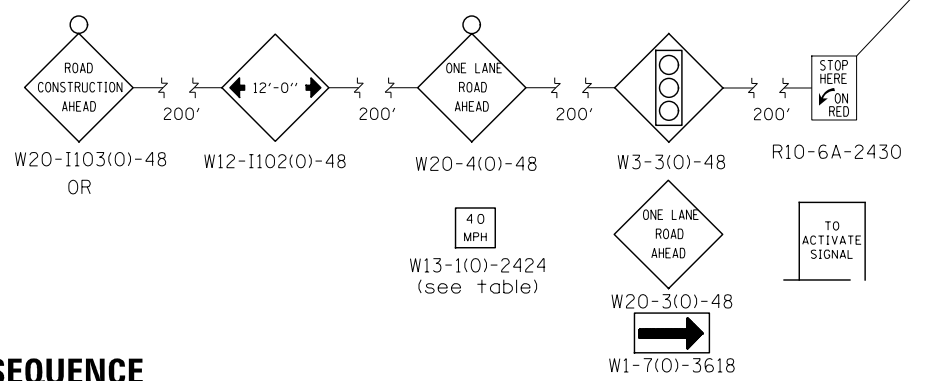
1. USE STANDARD 701321 FOR CULVERT WORK.
2. OFFSET TEMPORARY PAVEMENT MARKINGS TO LINE UP ON CURRENT CENTERLINE.
3. PLACE SHEET PILING.
4. CONSTRUCT CULVERT EXTENSIONS. GRADE AND SHAPE SLOPES.
5. PLACE PROPOSED SHOULDERS RT FROM STA 1211+36.76 TO STA 1213+61.37.
6. CONSTRUCT GUARDRAIL.
7. SWITCH TO STAGE II

FILE NAME =	USER NAME = sorrelltj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2 STAGING DETAIL SHEETS SN 071-1100</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			742	(34,35)CLV	OGLE/WINNE	46	19
	PLOT DATE = Mar-16-2017 11:56:54 AM	DATE -	REVISED -			SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.		CONTRACT NO. 64L44 ILLINOIS FED. AID PROJECT		

# STAGE 2



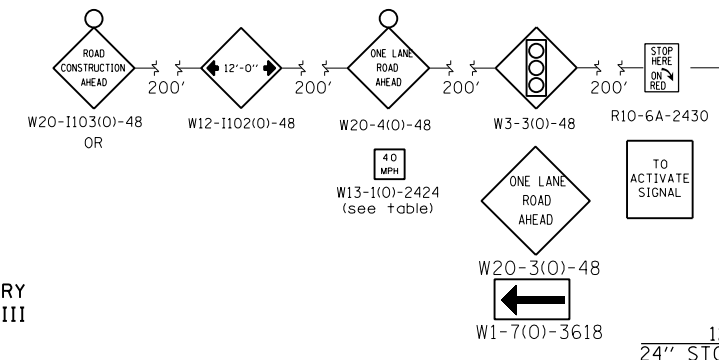
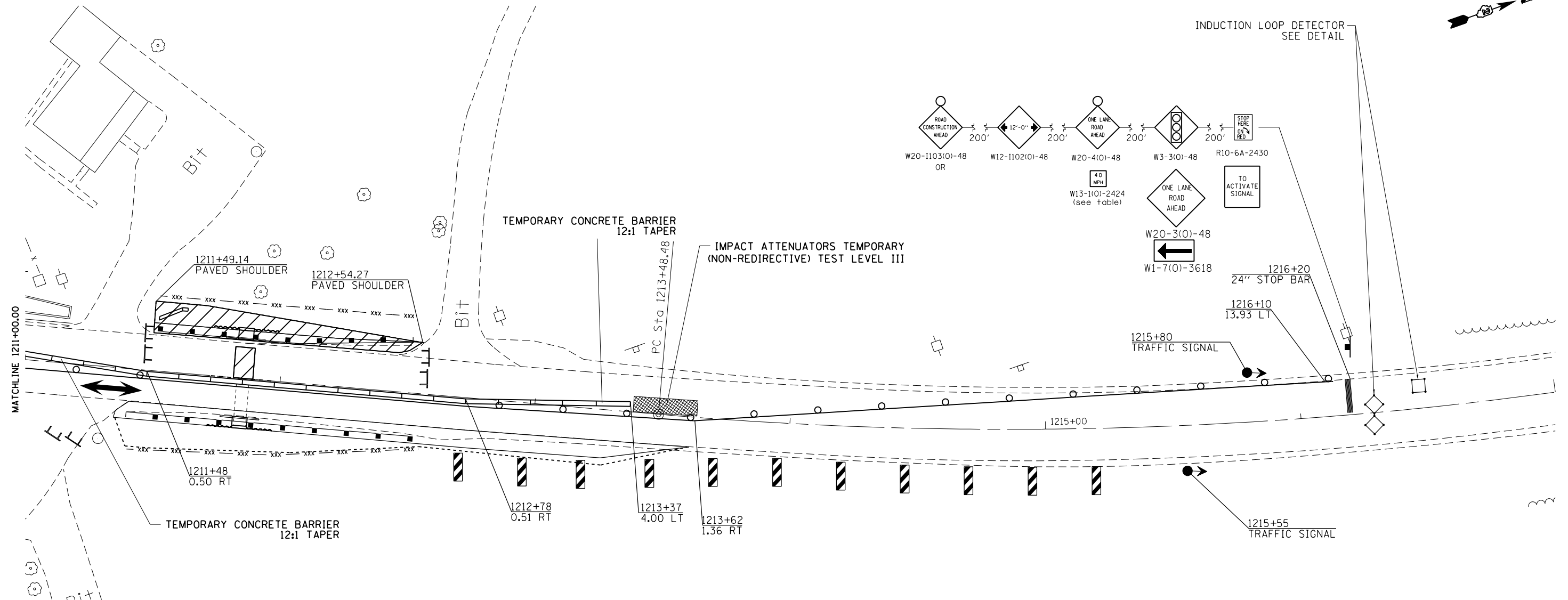
EXIST. CURVE 0270  
 PI STA. = 1206+85.18  
 $\Delta = 23^\circ 11' 57''$  (RT)  
 $D = 3^\circ 31' 59''$   
 $R = 1,621.74'$   
 $T = 332.88'$   
 $L = 656.64'$   
 $E = 33.81'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. \text{ RUN} = \text{---}$   
 $P.C. \text{ STA.} = 1203+52.30$   
 $P.T. \text{ STA.} = 1210+08.94$



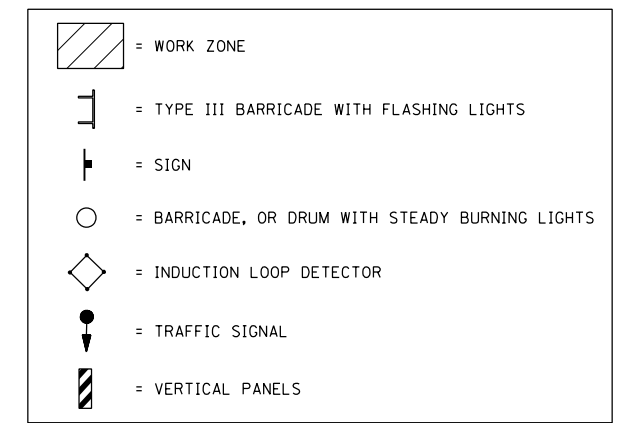
## STAGE 2 NOTES AND SEQUENCE

1. USE STANDARD 701321 FOR CULVERT WORK.
2. PLACE SOIL RETENTION SHEET PILING.
3. CONSTRUCT CULVERT EXTENSIONS.
4. PLACE PROPOSED SHOULDERS LT FROM STA 1211+49.14 TO STA 1212+54.27.
5. CONSTRUCT GUARDRAIL.
6. GRADE AND SHAPE SLOPES.
7. COMPLETE CULVERT PATCH ON THE SOUTHBOUND LANE.

# STAGE 2



EXIST. CURVE 0280  
 PI STA. = 1217+22.66  
 $\Delta = 26^\circ 33' 28''$  (LT)  
 $D = 3^\circ 36' 49''$   
 $R = 1,585.53'$   
 $T = 374.19'$   
 $L = 734.92'$   
 $E = 43.56'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 1213+48.48  
 P.T. STA. = 1220+83.40

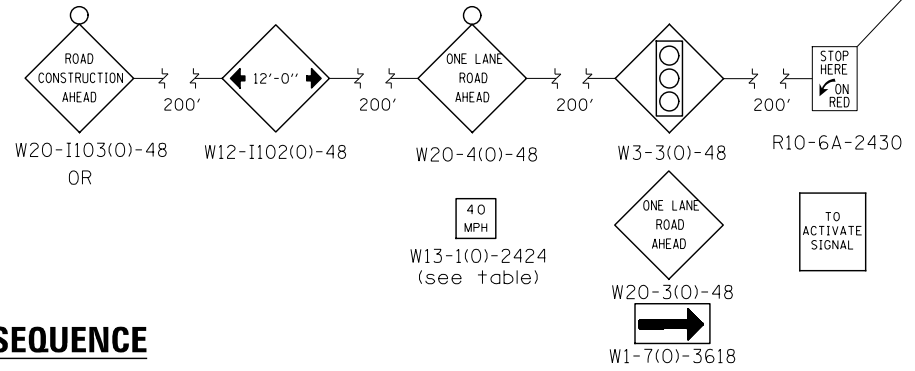
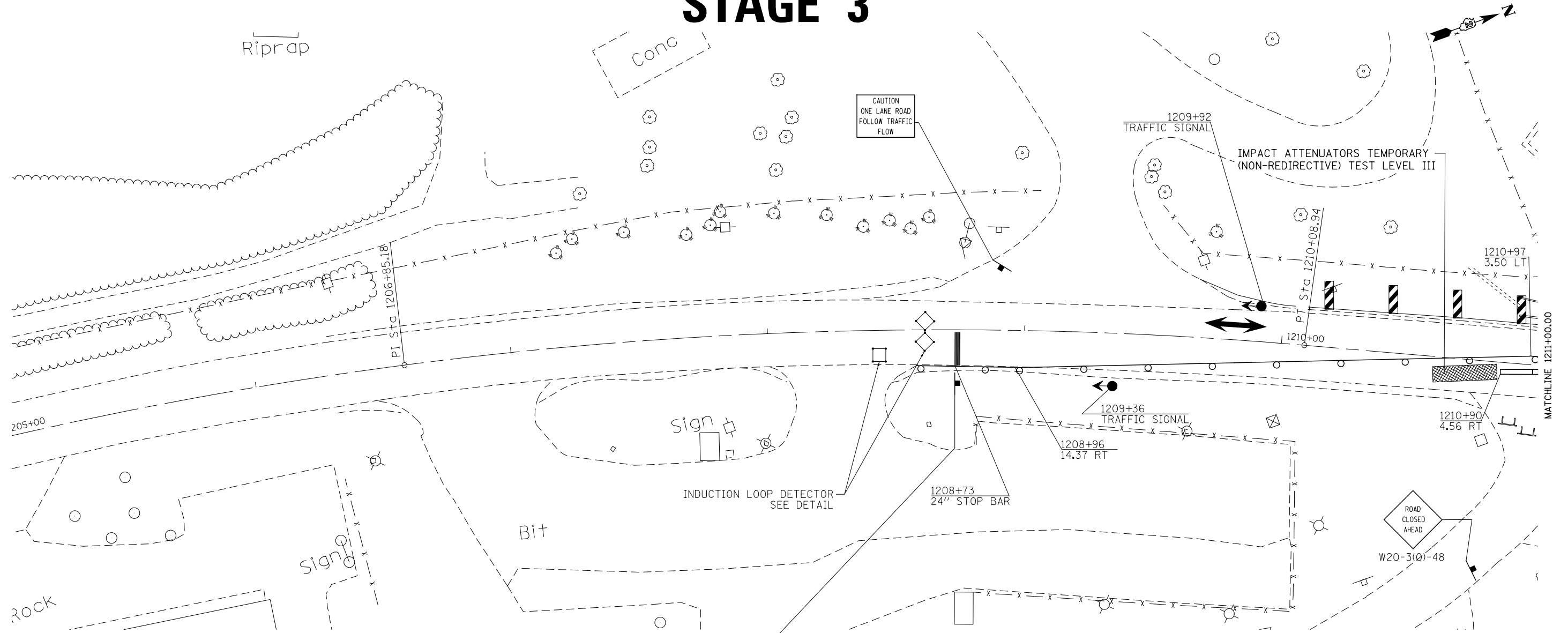


## STAGE 2 NOTES AND SEQUENCE

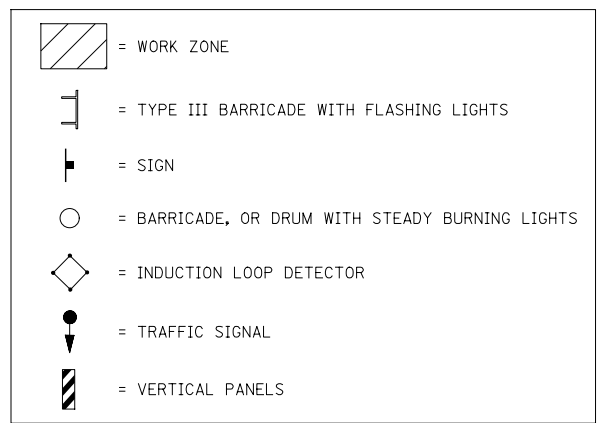
1. USE STANDARD 701321 FOR CULVERT WORK.
2. PLACE SOIL RETENTION SHEET PILING.
3. CONSTRUCT CULVERT EXTENSIONS.
4. PLACE PROPOSED SHOULDERS LT FROM STA 1211+49.14 TO STA 1212+54.27.
5. CONSTRUCT GUARDRAIL.
6. GRADE AND SHAPE SLOPES.
7. COMPLETE CULVERT PATCH ON THE SOUTHBOUND LANE.

FILE NAME =	USER NAME = sorrelltj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2 STAGING DETAIL SHEETS SN 071-1100</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -			742	(34,35)CLV	OGLE/WINNE	46	21
		DATE -	REVISED -			CONTRACT NO. 64L44		ILLINOIS FED. AID PROJECT		

# STAGE 3



EXIST. CURVE 0270  
 PI STA. = 1206+85.18  
 $\Delta = 23^\circ 11' 57''$  (RT)  
 $D = 3^\circ 31' 59''$   
 $R = 1,621.74'$   
 $T = 332.88'$   
 $L = 656.64'$   
 $E = 33.81'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 $P.C. \text{ STA.} = 1203+52.30$   
 $P.T. \text{ STA.} = 1210+08.94$



## STAGE 3 NOTES AND SEQUENCE

1. USE STANDARD 701321 FOR CULVERT WORK.
2. COMPLETE CULVERT PATCH ON NORTH BOUND LANE.



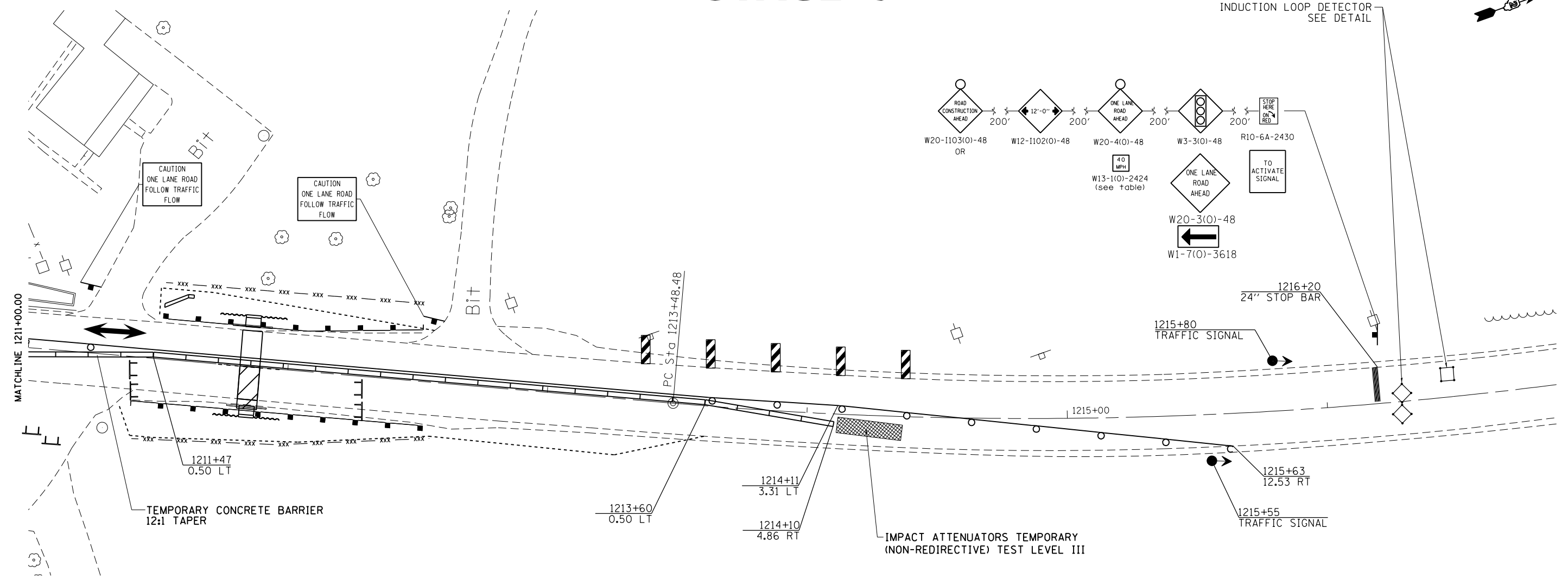
USER NAME = dcorroll	DESIGNED FW	REVISED -
	DRAWN DC	REVISED -
PLOT SCALE = 1:40	CHECKED -	REVISED -
PLOT DATE = Invalid expression	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

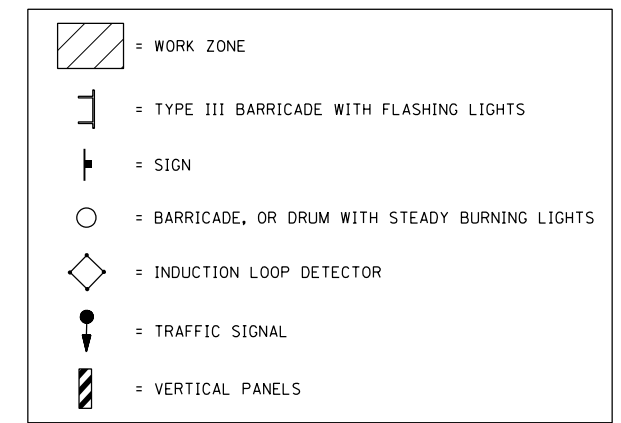
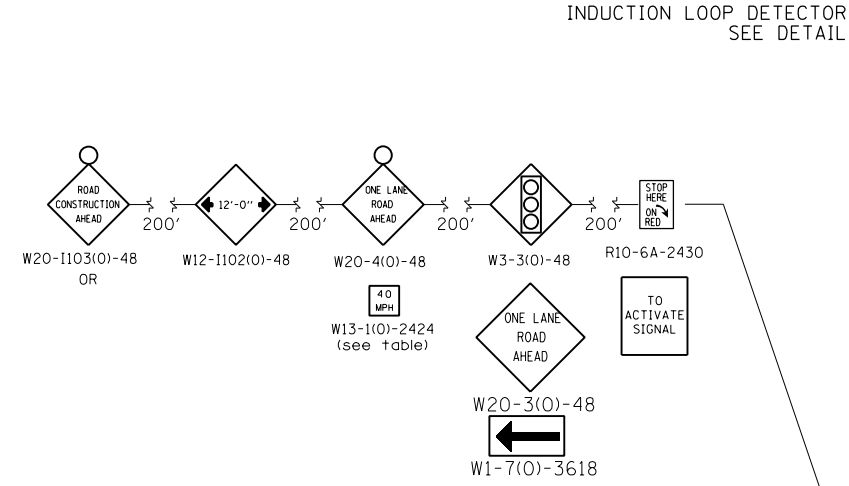
IL 2	
STAGING DETAIL SHEETS SN 071-1100	
SCALE:	SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	OGLE	46	22
CONTRACT NO. 64L44				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# STAGE 3



EXIST. CURVE 0280  
 PI STA. = 1217+22.66  
 $\Delta = 26^\circ 33' 28''$  (LT)  
 $D = 3^\circ 36' 49''$   
 $R = 1,585.53'$   
 $T = 374.19'$   
 $L = 734.92'$   
 $E = 43.56'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 1213+48.48  
 P.T. STA. = 1220+83.40



## STAGE 3 NOTES AND SEQUENCE

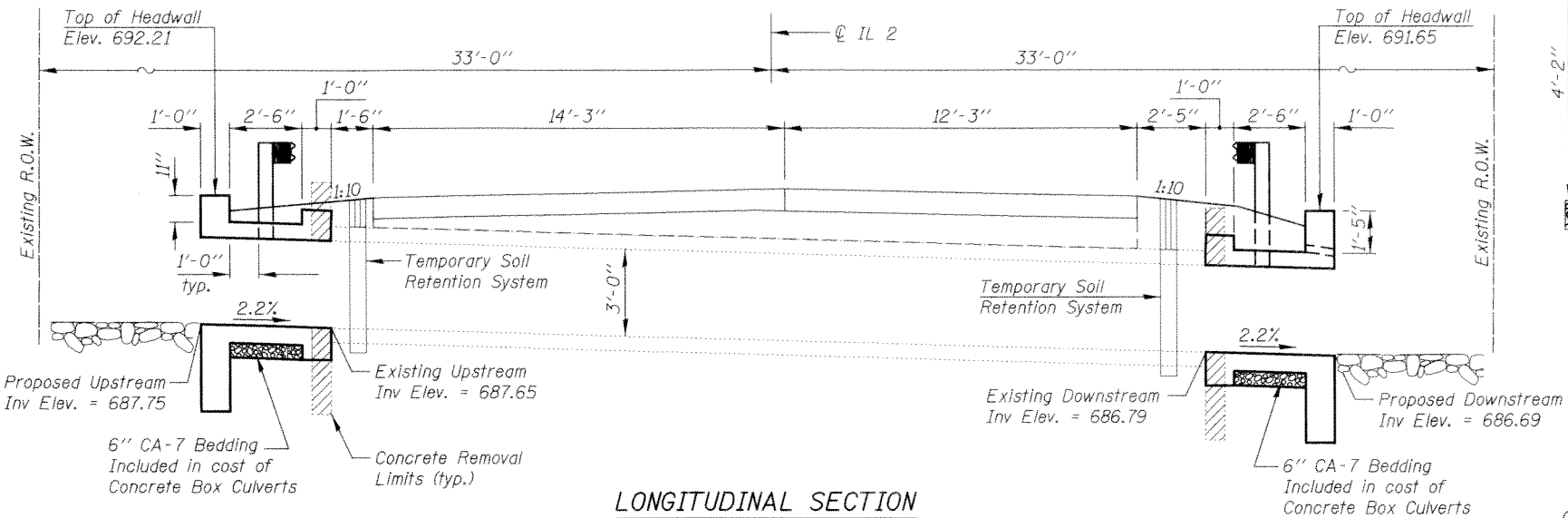
1. USE STANDARD 701321 FOR CULVERT WORK.
2. COMPLETE CULVERT PATCH ON NORTH BOUND LANE.

FILE NAME =	USER NAME = sorrelltj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2 STAGING DETAIL SHEETS SN 071-1100</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -			742	(34,35)CLV	OGLE/WINNE	46	22
		DATE -	REVISED -			CONTRACT NO. 64L44		ILLINOIS FED. AID PROJECT		

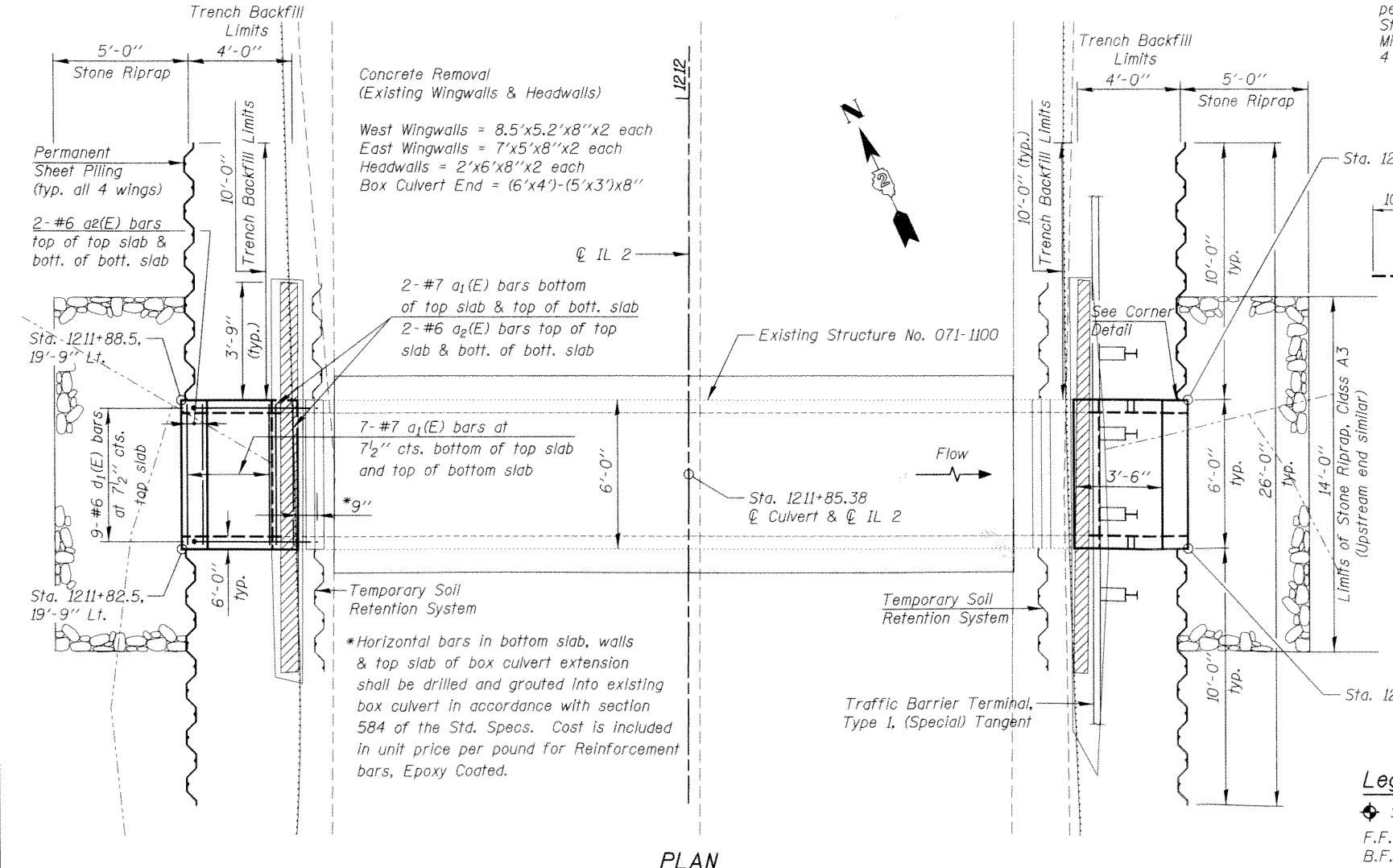
SCALE: SHEET 8 OF 11 SHEETS STA. TO STA.

Existing Structure: The existing structure, which will remain in place, consists of a reinforced concrete box culvert with horizontal cantilever parallel reinforced concrete wing walls.  
 Proposed Box Culvert Extension: The proposed box culvert extension is a reinforced concrete box culvert with parallel Permanent Steel Sheet Piling wing walls.  
 Staging: Traffic will be maintained on the existing roadway. Daily lane closures will be implemented to perform the box culvert extension and wing wall installation.

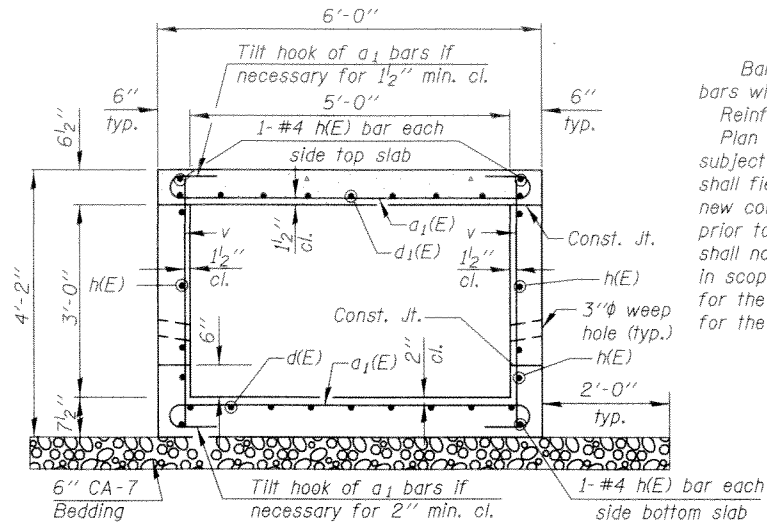
Bench Mark: Cut Sq on Center of HWDL w/grate (w/15" cmp) -  
 SW corner of PE of House #8894 across from the North entrance to N. River Dr. Elev. 691.35580 NAVD88



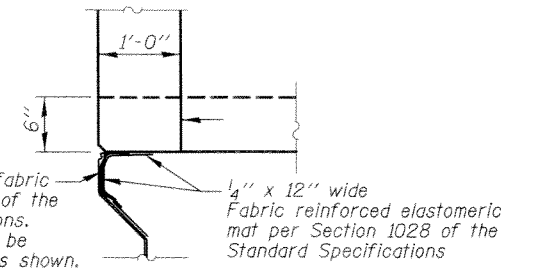
**LONGITUDINAL SECTION**



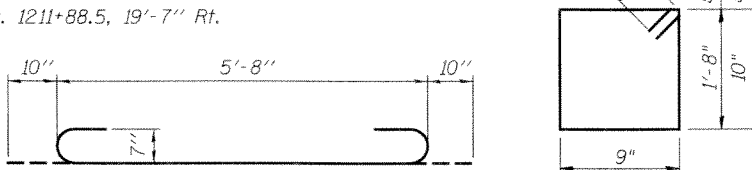
**PLAN**



**SECTION THRU BARREL**

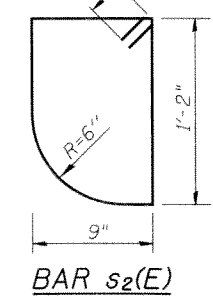


**CORNER DETAIL**



**BAR a1(E)**

**BAR s(E) & s1(E)**



**BAR s2(E)**

**NOTES**

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 & 2016 Interim Revisions

**LOADING HL-93**

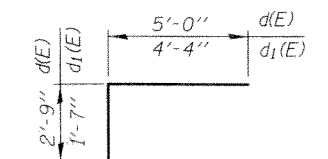
Allow 50#/sq. ft. for future wearing surface.

**FIELD UNITS**

$f_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

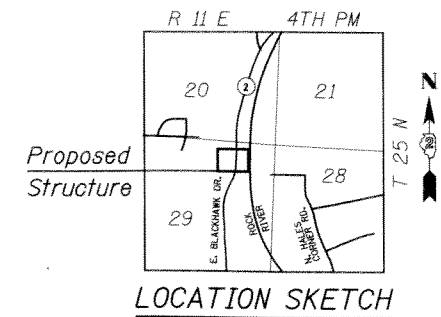
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	36	#7	7'-4"	U
a2(E)	12	#6	5'-8"	—
d(E)	18	#6	7'-9"	—
d1(E)	18	#6	5'-11"	—
h(E)	30	#4	5'-8"	—
s(E)	7	#4	5'-7"	□
s1(E)	28	#4	3'-11"	□
s2(E)	7	#4	4'-7"	□
v(E)	12	#4	3'-10"	—
v1(E)	4	#4	7'-7"	—
v2(E)	4	#4	7'-1"	—
v3(E)	4	#4	4'-4"	—
Trench Backfill			Cu. Yd.	26
Stone Riprap, Class A3			Sq. Yd.	16
Concrete Removal			Cu. Yd.	4.7
Reinforcement Bars, Epoxy Coated			Pound	1020
Permanent Sheet Piling			Sq. Ft.	357
Temporary Soil Retention System			Sq. Ft.	128
Concrete Box Culverts			Cu. Yd.	5.4



**BAR d(E) & d1(E)**

**GENERAL PLAN & ELEVATION**  
**IL 2 OVER DRAINAGE CULVERT**  
**F.A.P. RTE. 742 SEC. (34,35)CLV**  
**OGLE COUNTY**  
**STA. 1211+85**  
**STRUCTURE NO. 071-1100**



**LOCATION SKETCH**

**Legend**

- Soil Borings
- F.F. Front Face
- B.F. Back Face
- Concrete Removal

FRANK J. WILLIAMS  
 081-095037  
 LICENSED STRUCTURAL ENGINEER  
 OF ILLINOIS  
 FEBRUARY 23, 2017  
 LIC. EXP. 11/30/2018

**KNIGHT**  
 Engineers & Architects

DESIGNED - FW  
 CHECKED - DC  
 SCALE - NONE  
 DATE - 2/22/2017

REVISOR  
 REVISION  
 REVISION  
 REVISION

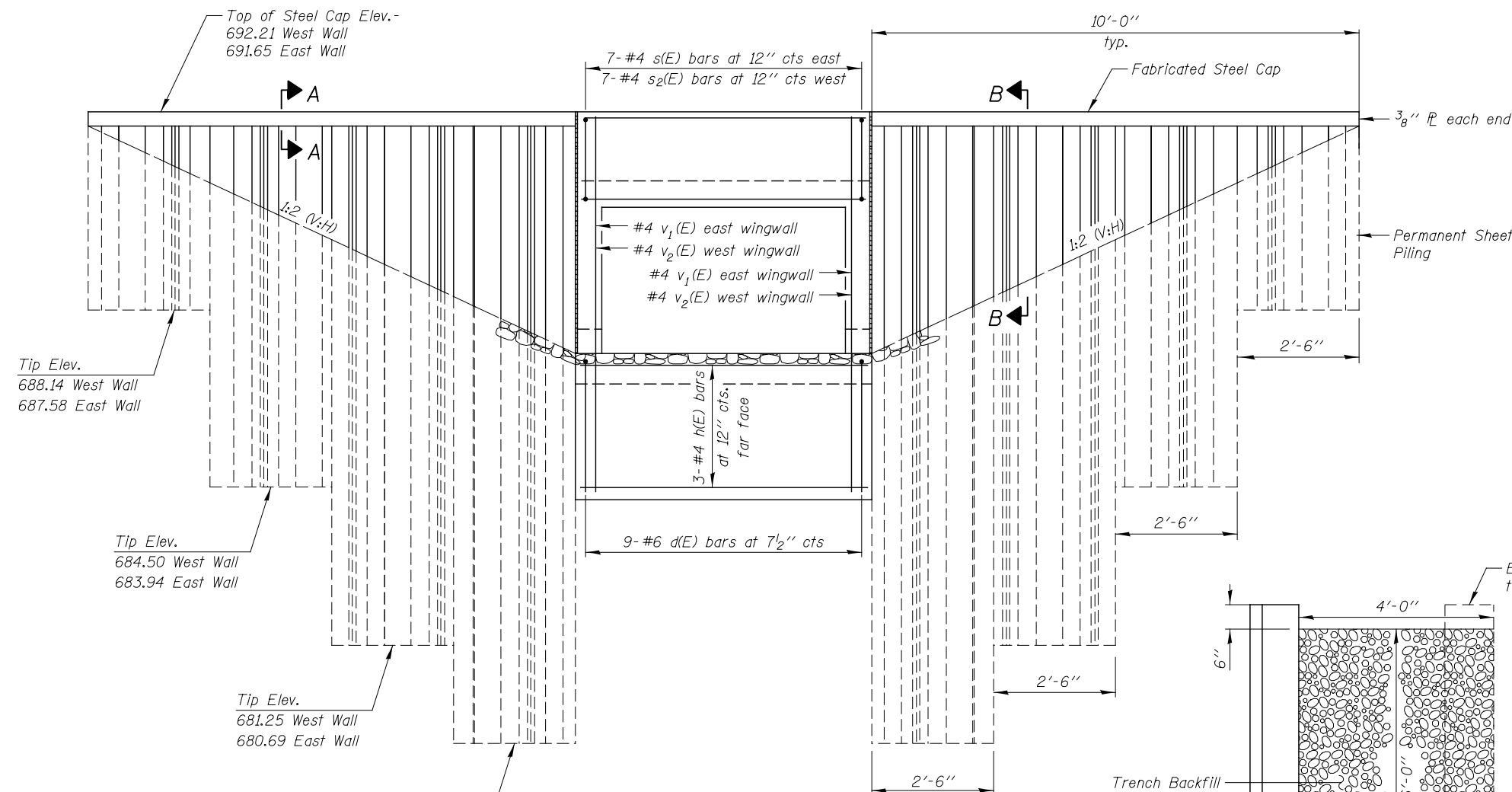
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NUMBER 071-1100**  
 DRAWING NO. 9 OF 11 DRAWINGS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	Ogle	46	24

CONTRACT NO. 64L44  
 [ILLNOTS] FED. AID PROJECT





**Notes:**  
 Minimum Permanent Sheet Piling Section Modulus = 14.4 in<sup>3</sup>/ft  
 Permanent Sheet Piling to be AASHTO M270 Grade 50

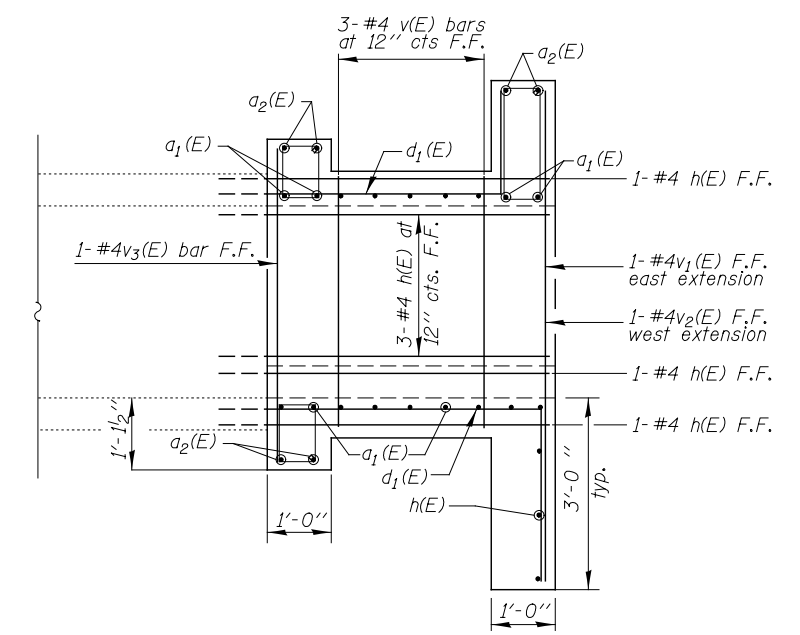
Tip Elev. 688.14 West Wall  
 687.58 East Wall

Tip Elev. 684.50 West Wall  
 683.94 East Wall

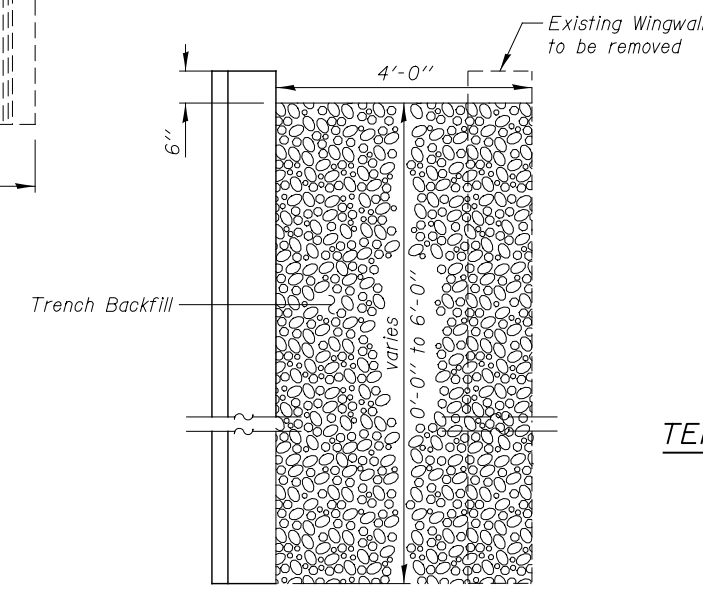
Tip Elev. 681.25 West Wall  
 680.69 East Wall

Tip Elev. 679.25 West Wall  
 678.69 East Wall

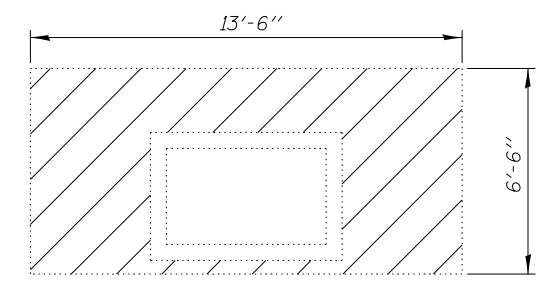
**END ELEVATION**  
 West End looking East  
 East End looking West



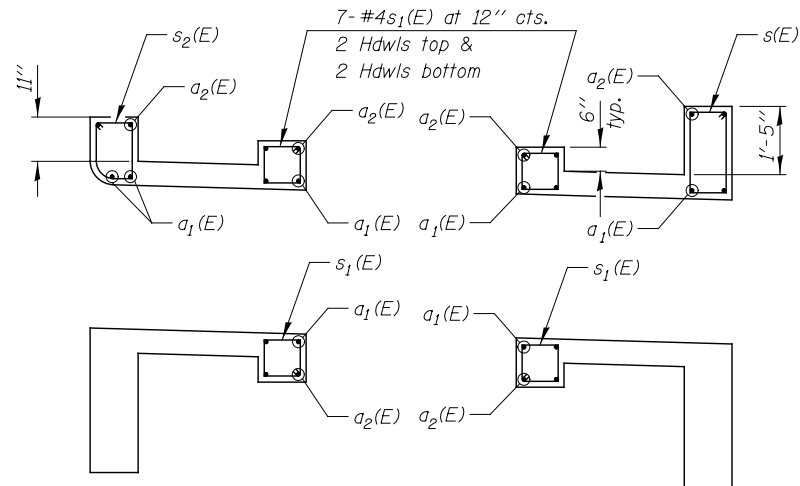
**SOUTH WALL ELEVATION**  
 East Side Looking North  
 (Typ. All Four Walls)



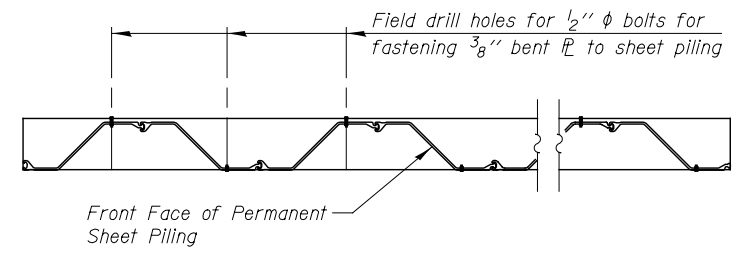
**SECTION B-B**



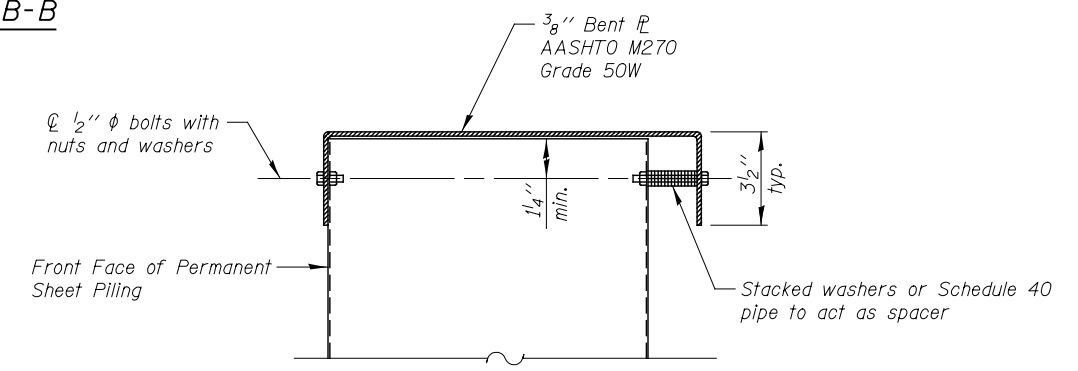
**TEMPORARY SOIL RETENTION SYSTEM**  
 East Side Looking West  
 (Typ. Both Ends)



**SECTION THRU HEADWALL**  
 (Upstream Only)      **SECTION THRU HEADWALL**  
 (Downstream Only)



**PLAN**  
 Showing connection of fabricated steel cap to Permanent Sheet Piling



**SECTION A-A**  
 Fabricated Steel Cap

**KNIGHT**  
 Engineers & Architects

SCALE - NONE  
 DATE - 1/26/2017

DESIGNED - FW  
 CHECKED -  
 DRAWN - DC  
 CHECKED -

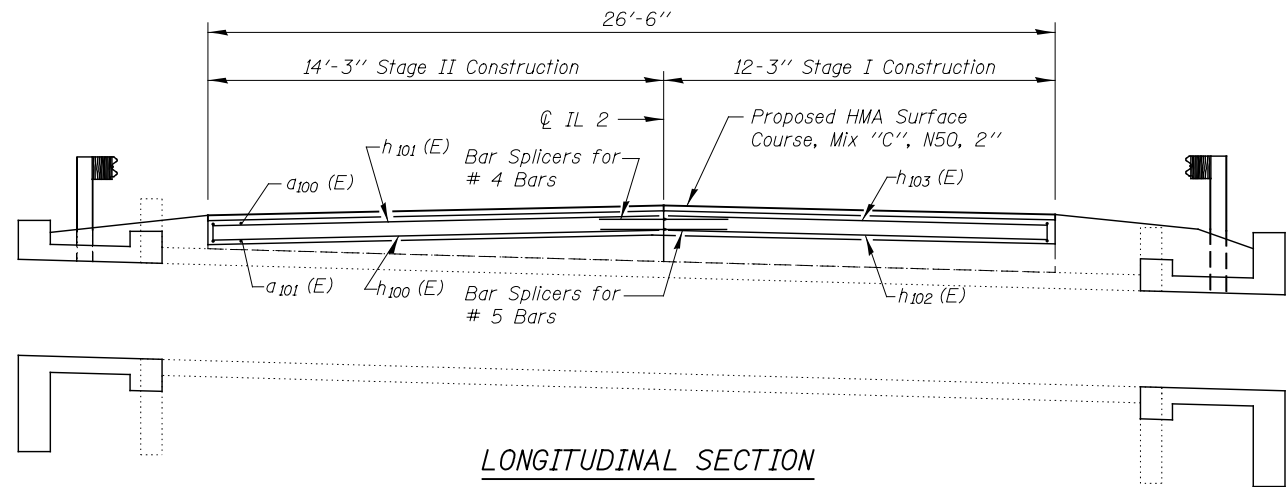
REVISED  
 REVISED  
 REVISED  
 REVISED

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

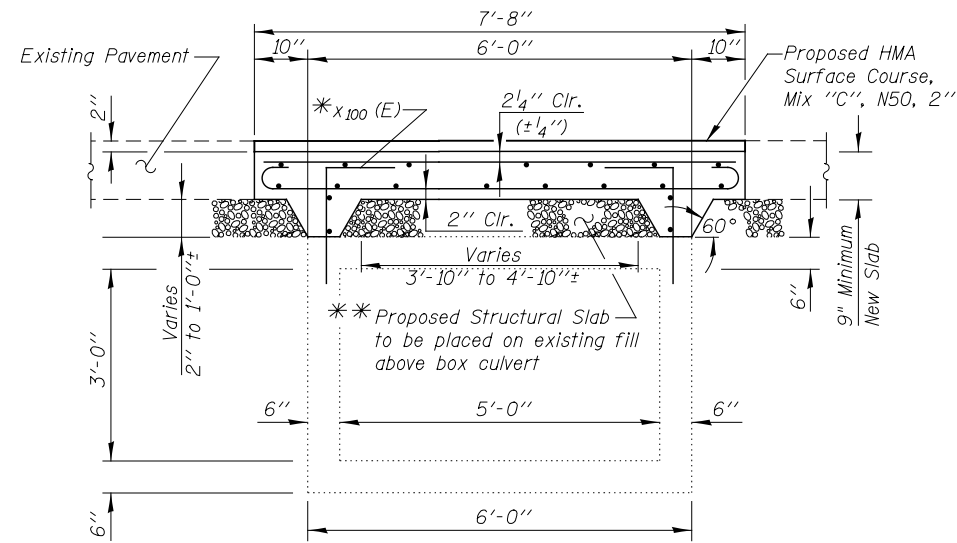
**CROSS SECTION & DETAILS**  
**STRUCTURE NUMBER 071-1100**

DRAWING NO. 10 OF 11 DRAWINGS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	Ogle	46	25
CONTRACT NO. 64L44				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION



SECTION THRU BOX CULVERT

\* Epoxy grout x<sub>100</sub> (E) bars 9" min. into drilled holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.

\*\* Any additional material necessary to fill any voids shall be Subbase Granular Material, Type B, meeting the requirements of Section 311 of the Standard Specifications. Cost is included in the unit price per cubic yard of Concrete Superstructure.

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 & 2016 Interim Revisions

**LOADING HL-93**

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

**DESIGN STRESSES - FIELD UNITS**

f'<sub>c</sub> = 4,000 psi  
f<sub>y</sub> = 60,000 psi

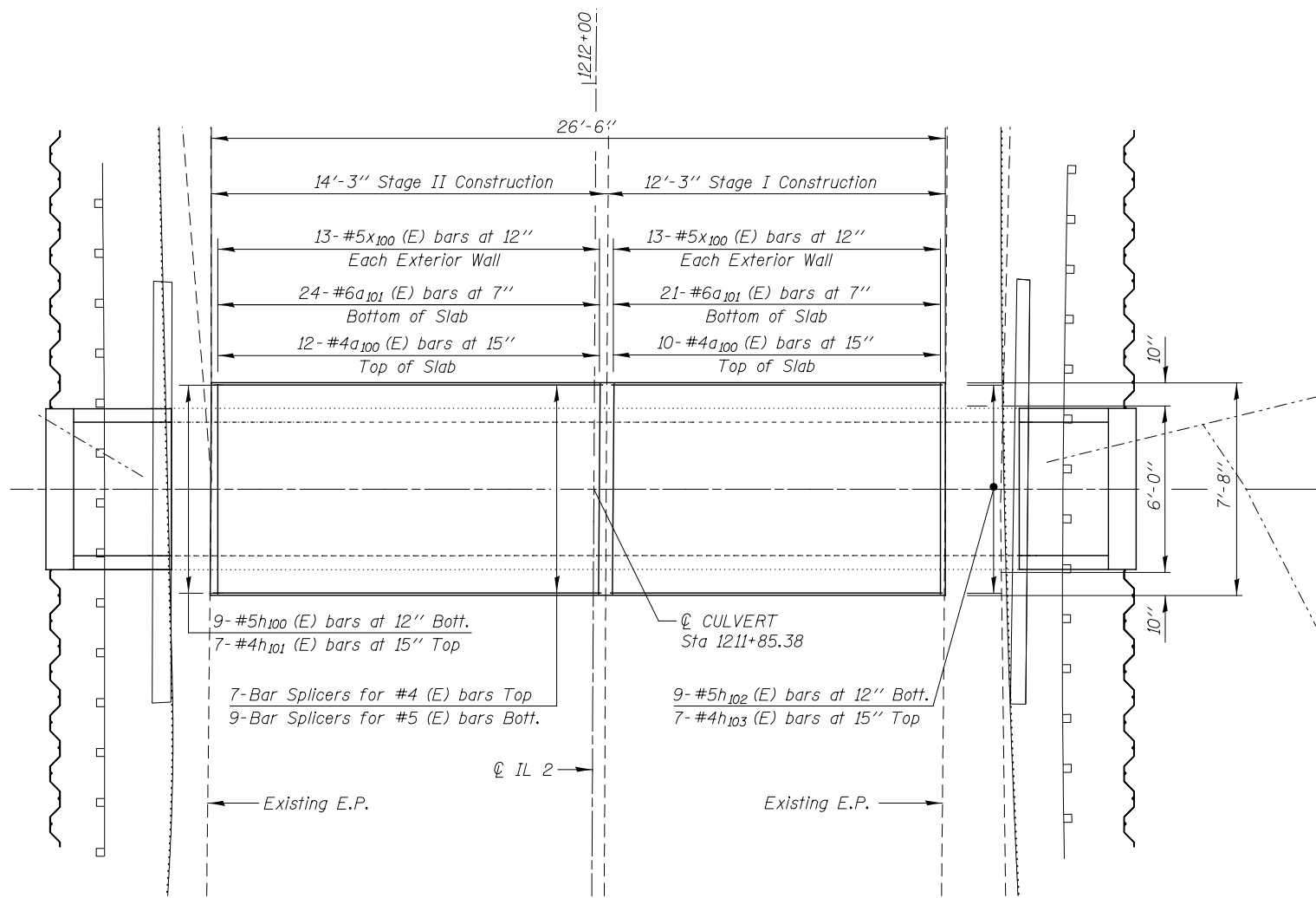
**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a <sub>100</sub> (E)	22	#4	7'-2"	—
a <sub>101</sub> (E)	45	#6	8'-6"	⊂
h <sub>100</sub> (E)	9	#5	13'-11"	—
h <sub>101</sub> (E)	7	#4	13'-11"	—
h <sub>102</sub> (E)	9	#5	11'-11"	—
h <sub>103</sub> (E)	7	#4	11'-11"	—
x <sub>100</sub> (E)	52	#5	3'-0"	L
Concrete Superstructure	Cu. Yd.		7.5	
Reinforcement Bars, Epoxy Coated	Pound		1220	
Bar Splicers	Each		16	

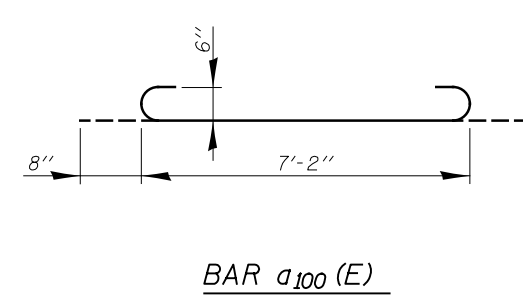
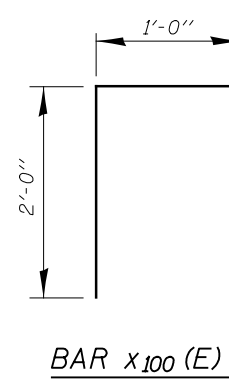
**GENERAL NOTES**

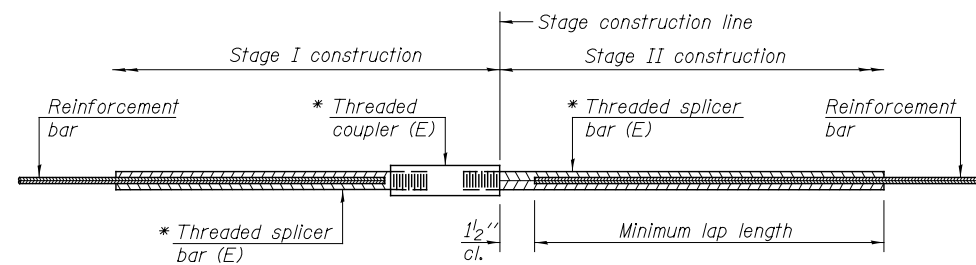
Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause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

Reinforcement bars designated (E) shall be epoxy coated.



PLAN  
Structural Slab over Box Culvert



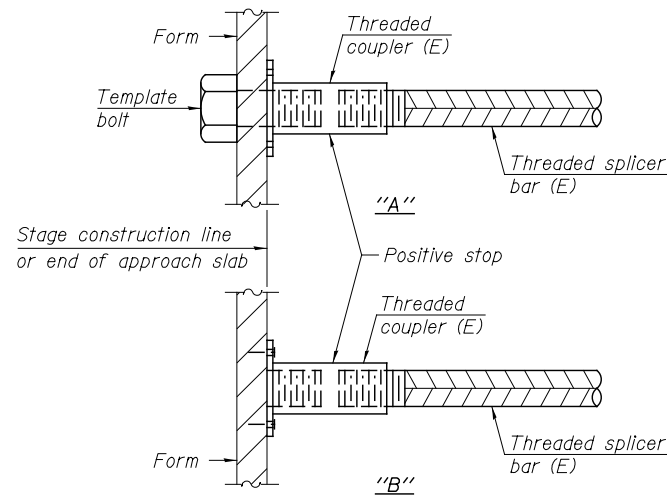


**STANDARD BAR SPLICER ASSEMBLY**

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

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

Location	Bar size	No. assemblies required	Minimum lap length
SN 071-1100 Str. Slab	#4	7	2'-5"
SN 071-1100 Str. Slab	#5	9	3'-6"
SN 101-1019 Str. Slab	#4	9	2'-5"
SN 101-1019 Str. Slab	#5	12	3'-6"

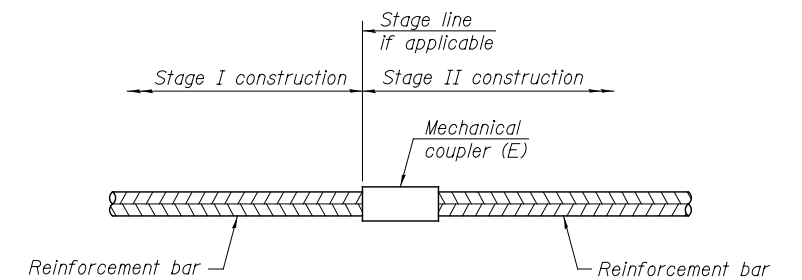


**INSTALLATION AND SETTING METHODS**

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

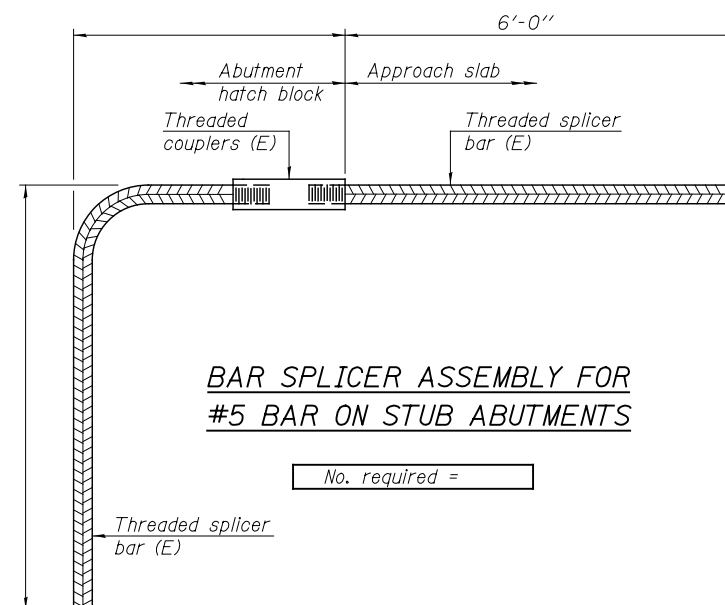
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

11-22-2016

**KNIGHT**  
Engineers & Architects

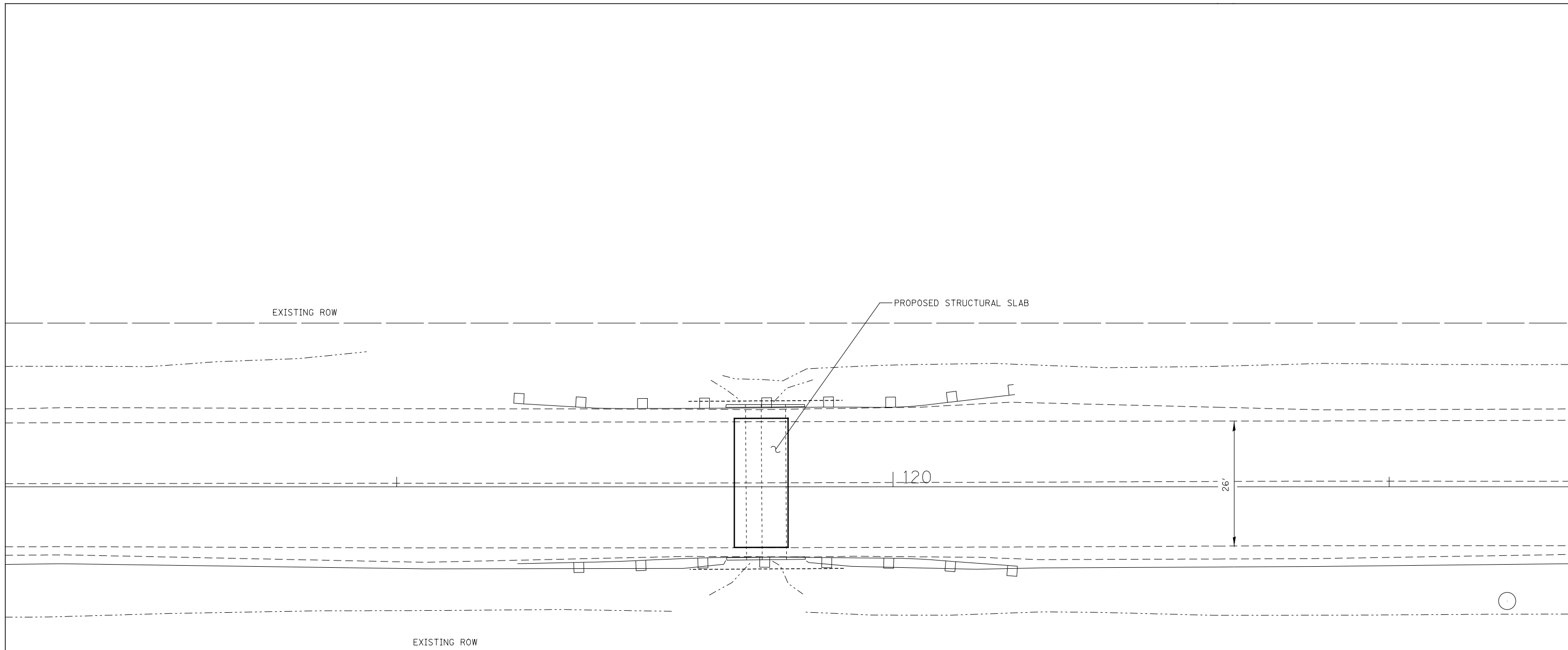
USER NAME = dcorroll	DESIGNED FW	REVISED -
	DRAWN DC	REVISED -
PLOT SCALE = 1/8"	CHECKED -	REVISED -
PLOT DATE = Invalid expression	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	WINNEBAGO	46	27
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L44	



**KNIGHT**  
Engineers & Architects

DESIGNED - FW	REVISED
CHECKED -	REVISED
DRAWN - DC	REVISED
CHECKED -	REVISED

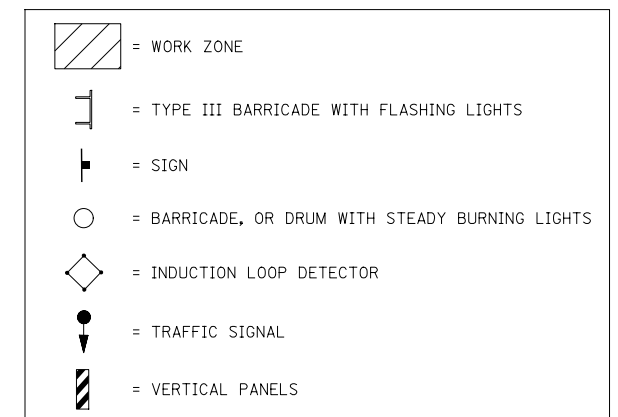
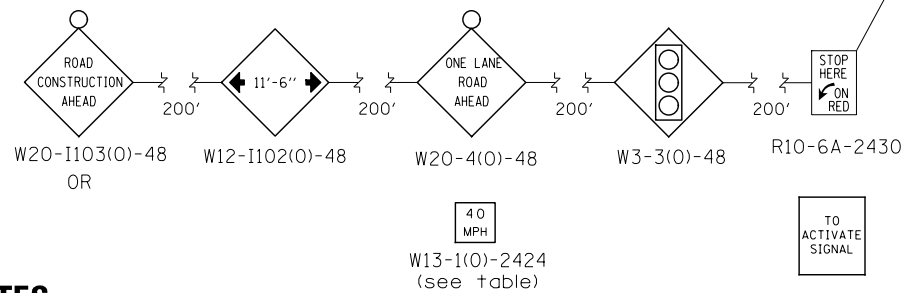
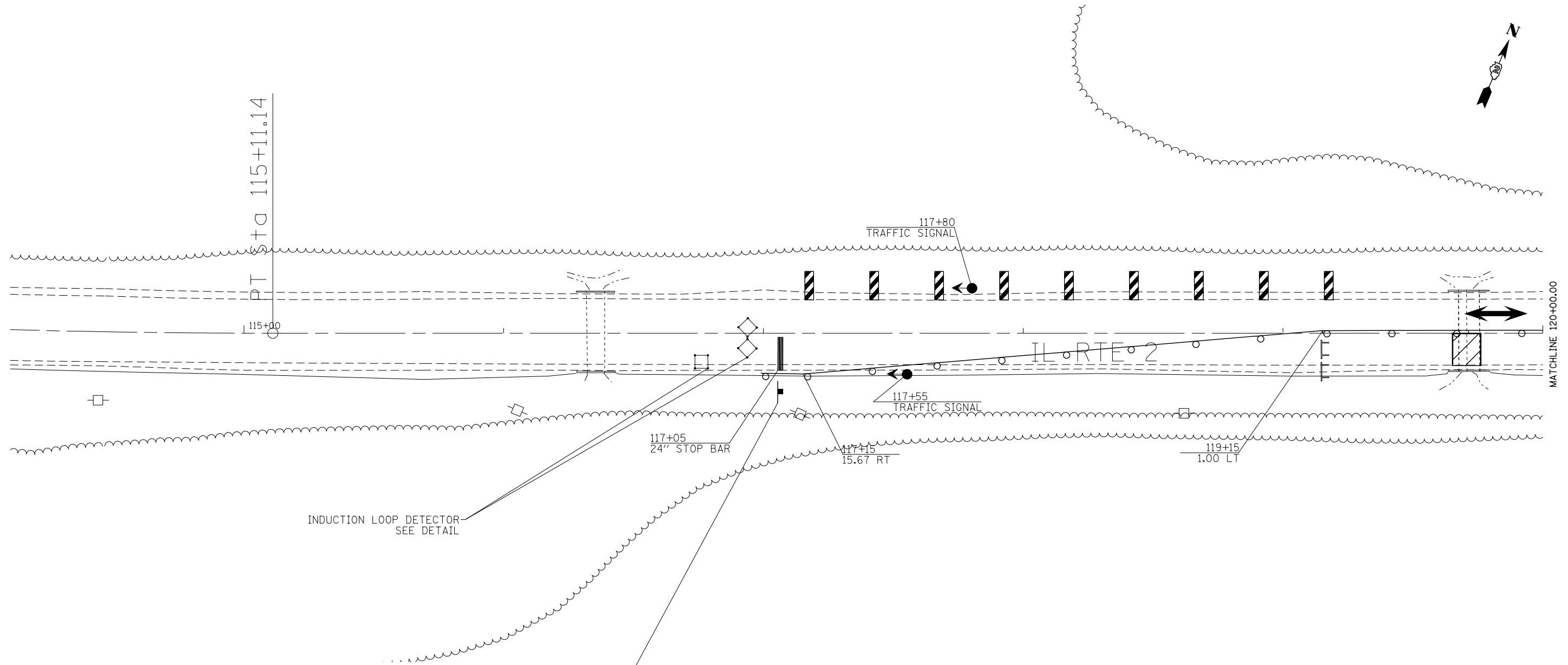
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 2 (SN 101-1019) PLAN & PROFILE**  
**STRUCTURE NUMBER 101-1019**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	Winnebago	46	28
			CONTRACT NO. 64L44	
ILLINOIS FED. AID PROJECT				

DRAWING NO. 1 OF 6 DRAWINGS

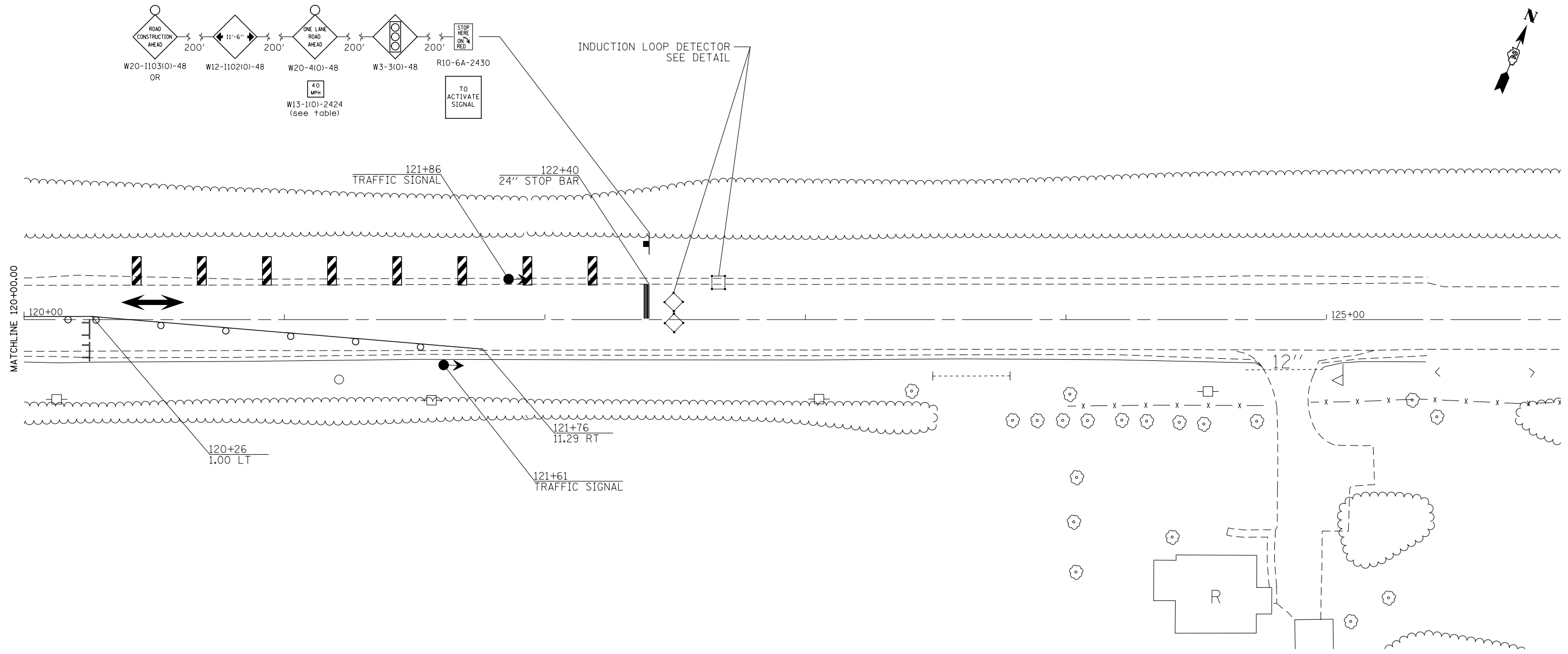
# STAGE 1



## STAGE 1 NOTES

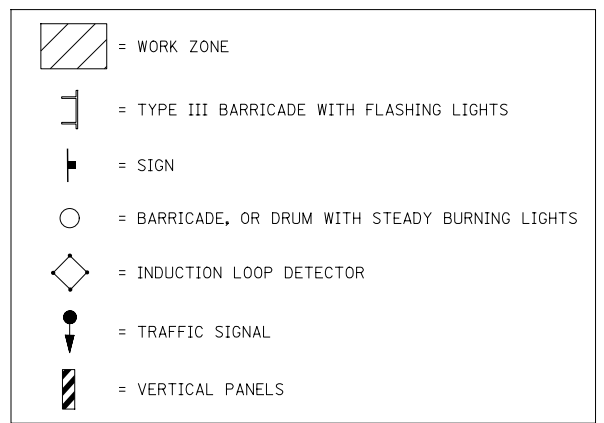
1. USE STANDARD 701316 FOR CULVERT WORK.
2. CONSTRUCT NORTHBOUND STRUCTURAL SLAB.

# STAGE 1



## STAGE 1 NOTES

1. USE STANDARD 701316 FOR CULVERT WORK.
2. CONSTRUCT NORTHBOUND STRUCTURAL SLAB.



**KNIGHT**  
Engineers & Architects

USER NAME = dcorral	DESIGNED <i>FW</i>	REVISED -
	DRAWN <i>DC</i>	REVISED -
PLOT SCALE = 1:40	CHECKED -	REVISED -
PLOT DATE = Invalid expression	DATE -	REVISED -

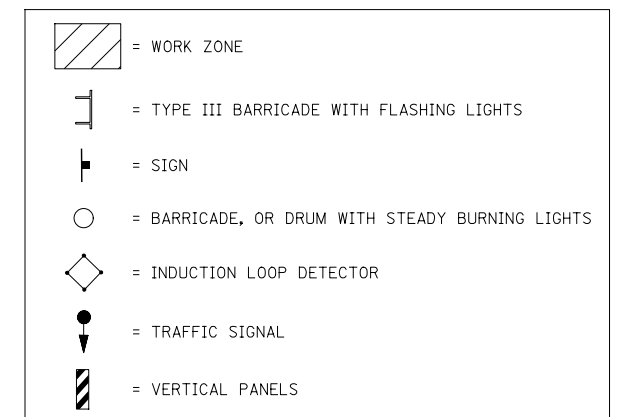
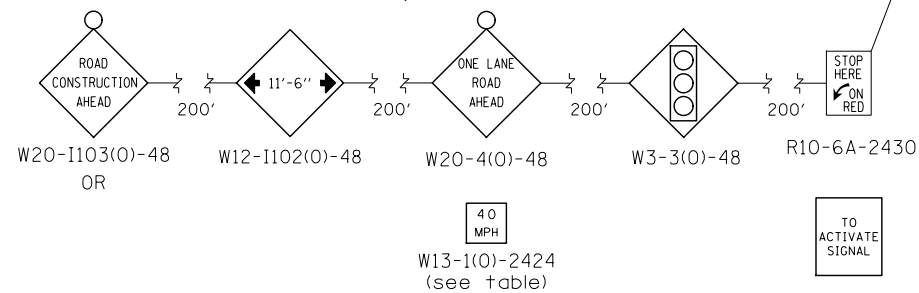
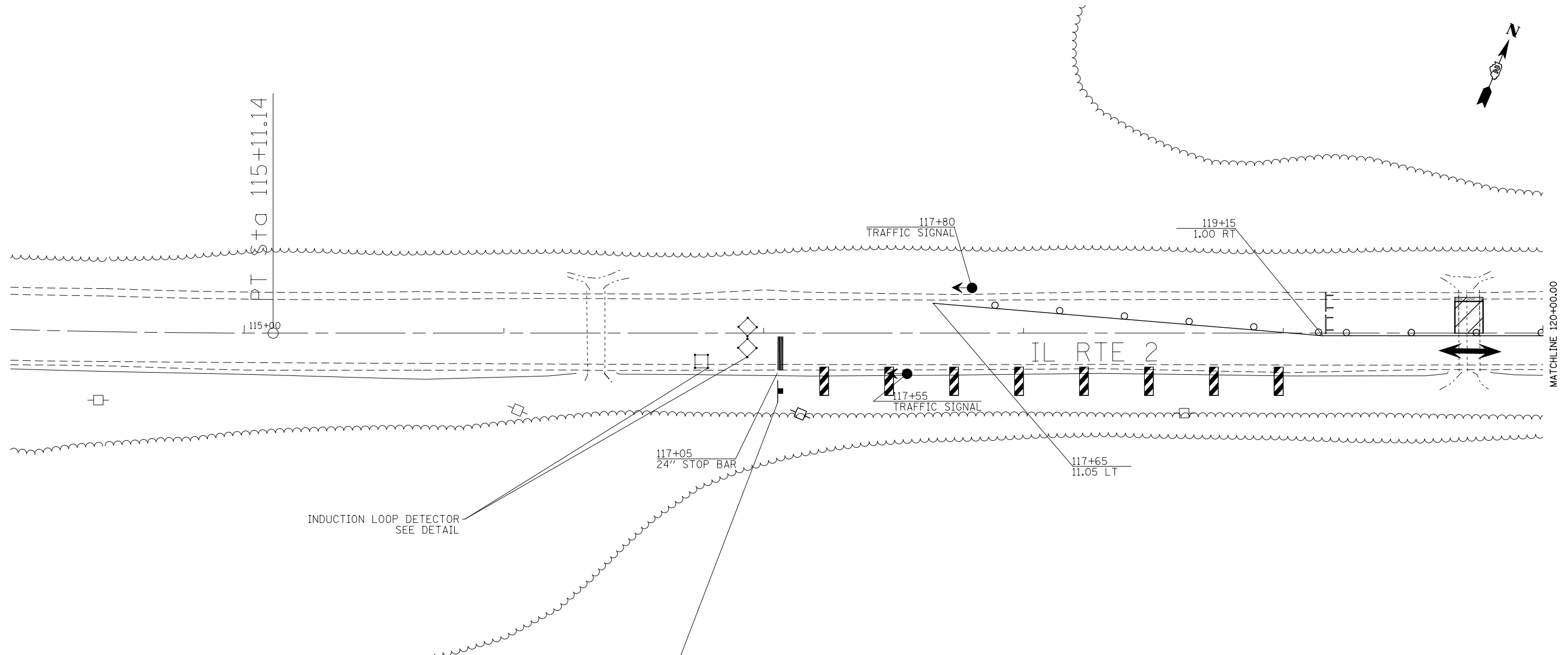
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 2	
STAGING DETAIL SHEETS SN 101-1019	
SCALE:	SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	WINNEBAGO	46	30
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 64L44

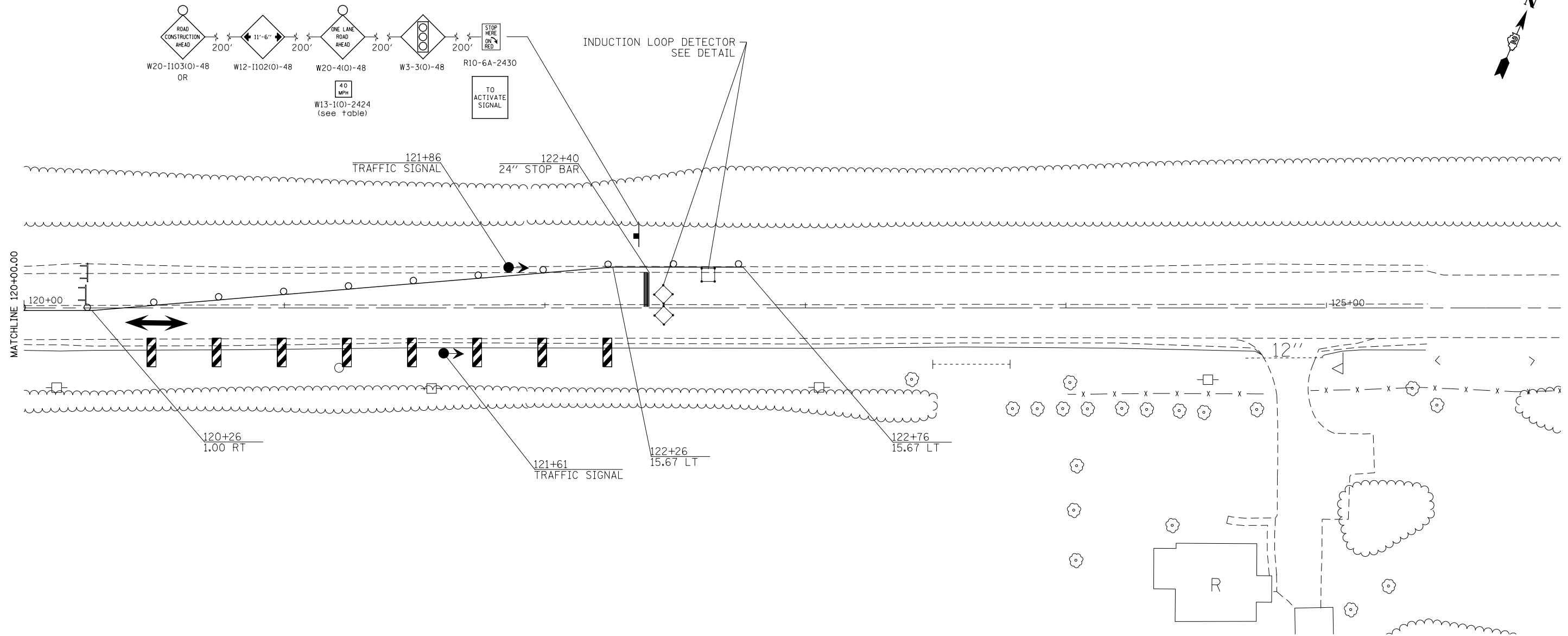
# STAGE 2



## STAGE 1 NOTES

1. USE STANDARD 701316 FOR CULVERT WORK.
2. CONSTRUCT SOUTHBOUND STRUCTURAL SLAB.

# STAGE 2



## STAGE 1 NOTES

1. USE STANDARD 701316 FOR CULVERT WORK.
2. CONSTRUCT SOUTHBOUND STRUCTURAL SLAB.



**KNIGHT**  
Engineers & Architects

USER NAME = dcorral	DESIGNED <i>FW</i>	REVISED -
	DRAWN <i>DC</i>	REVISED -
PLOT SCALE = 1:40	CHECKED -	REVISED -
PLOT DATE = Invalid expression	DATE -	REVISED -

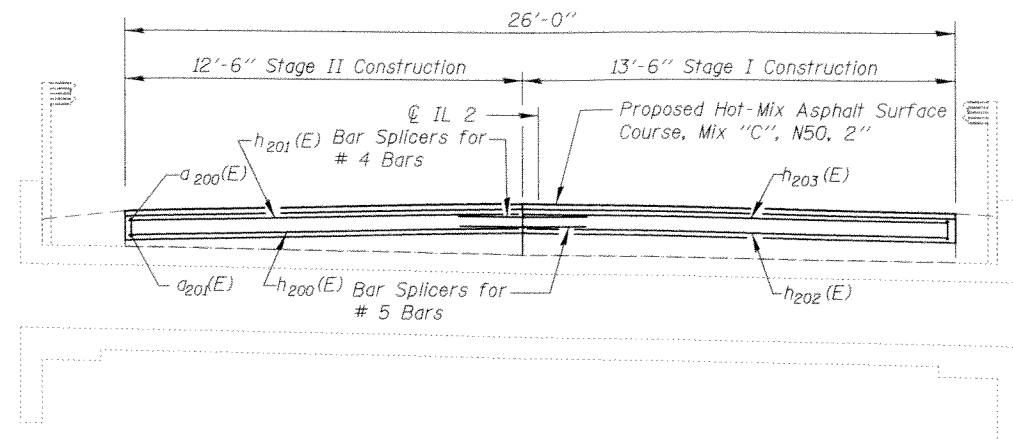
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 2  
STAGING DETAIL SHEETS SN 101-1019

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

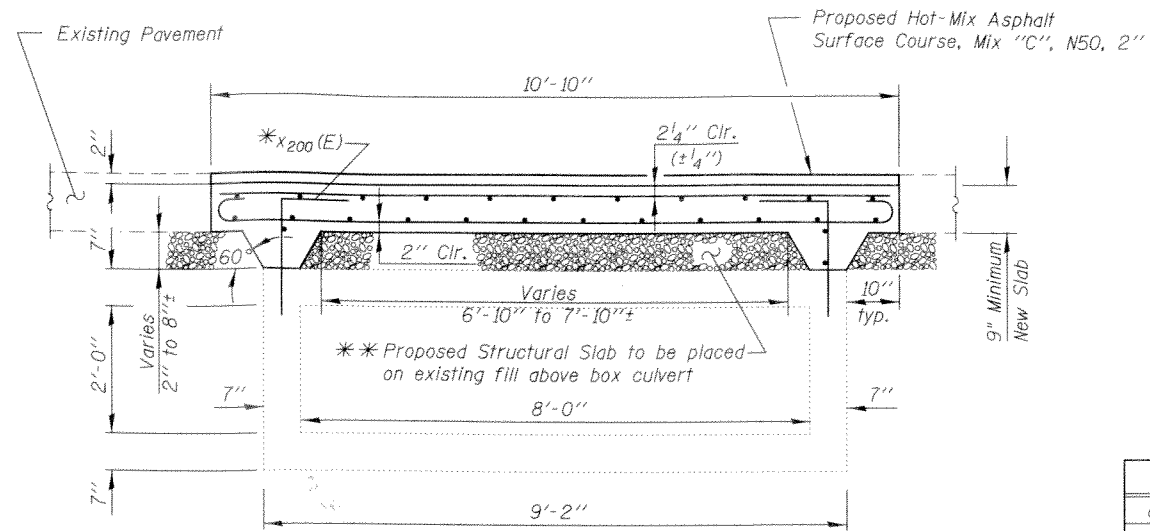
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	WINNEBAGO	46	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L44	





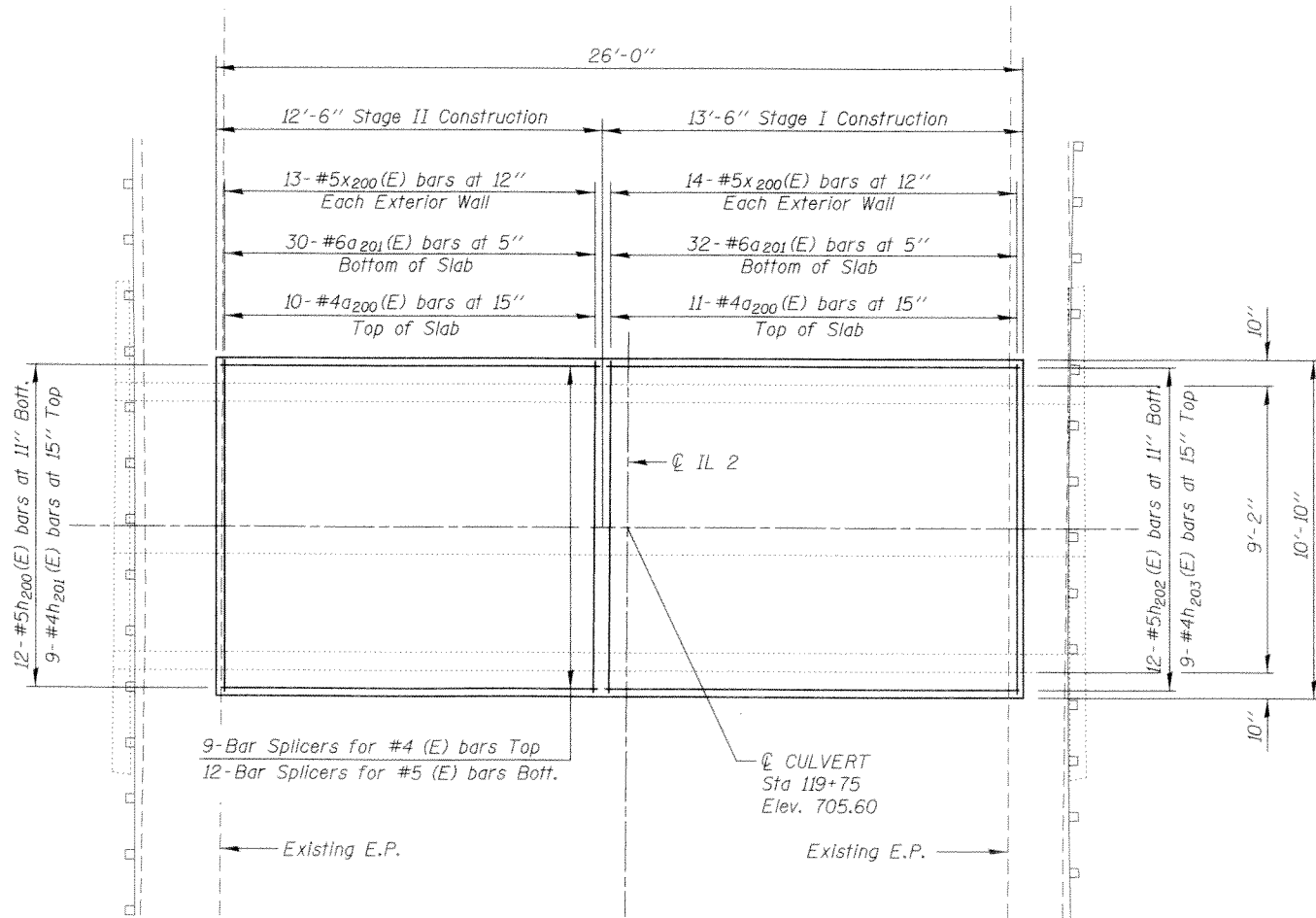
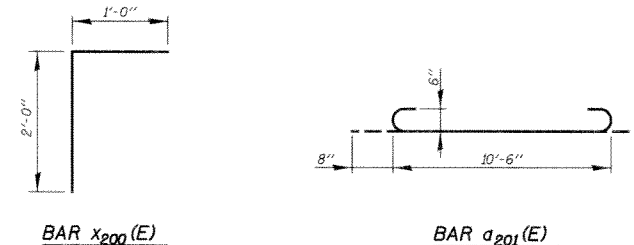
**Note:**  
Aggregate required to rebuild any disturbed shoulder shall be Aggregate Shoulders, Type B. This cost shall be included in the unit price per cubic yard of Concrete Superstructure.

**LONGITUDINAL SECTION**



**SECTION THRU BOX CULVERT**

\* Epoxy grout x200(E) bars 9" min. into drilled holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.  
 \*\* Any additional material necessary to fill any voids shall be Subbase Granular Material, Type B, meeting the requirements of Section 311 of the Standard Specifications. Cost is included in the unit price per cubic yard of Concrete Superstructure.



**PLAN**  
Structural Slab over Box Culvert

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 & 2016 Interim Revisions

**LOADING HL-93**

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

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 4,000$  psi  
 $f_y = 60,000$  psi

**BILL OF MATERIAL**

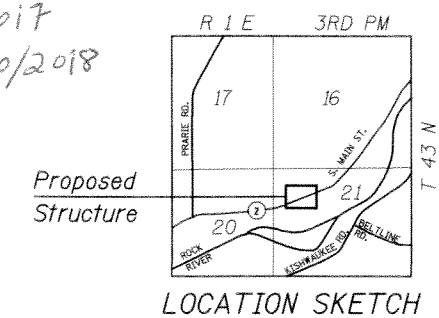
BAR	NO.	SIZE	LENGTH	SHAPE
a200(E)	21	#4	10'-6"	—
a201(E)	62	#6	11'-10"	—
h200(E)	12	#5	12'-2"	—
h201(E)	9	#4	12'-2"	—
h202(E)	12	#5	13'-2"	—
h203(E)	9	#4	13'-2"	—
x200(E)	54	#5	3'-0"	L
Concrete Superstructure		Cu. Yd.	9.0	
Reinforcement Bars, Epoxy Coated		Pound	1890	
Bar Splicers		Each	21	

**GENERAL NOTES**

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

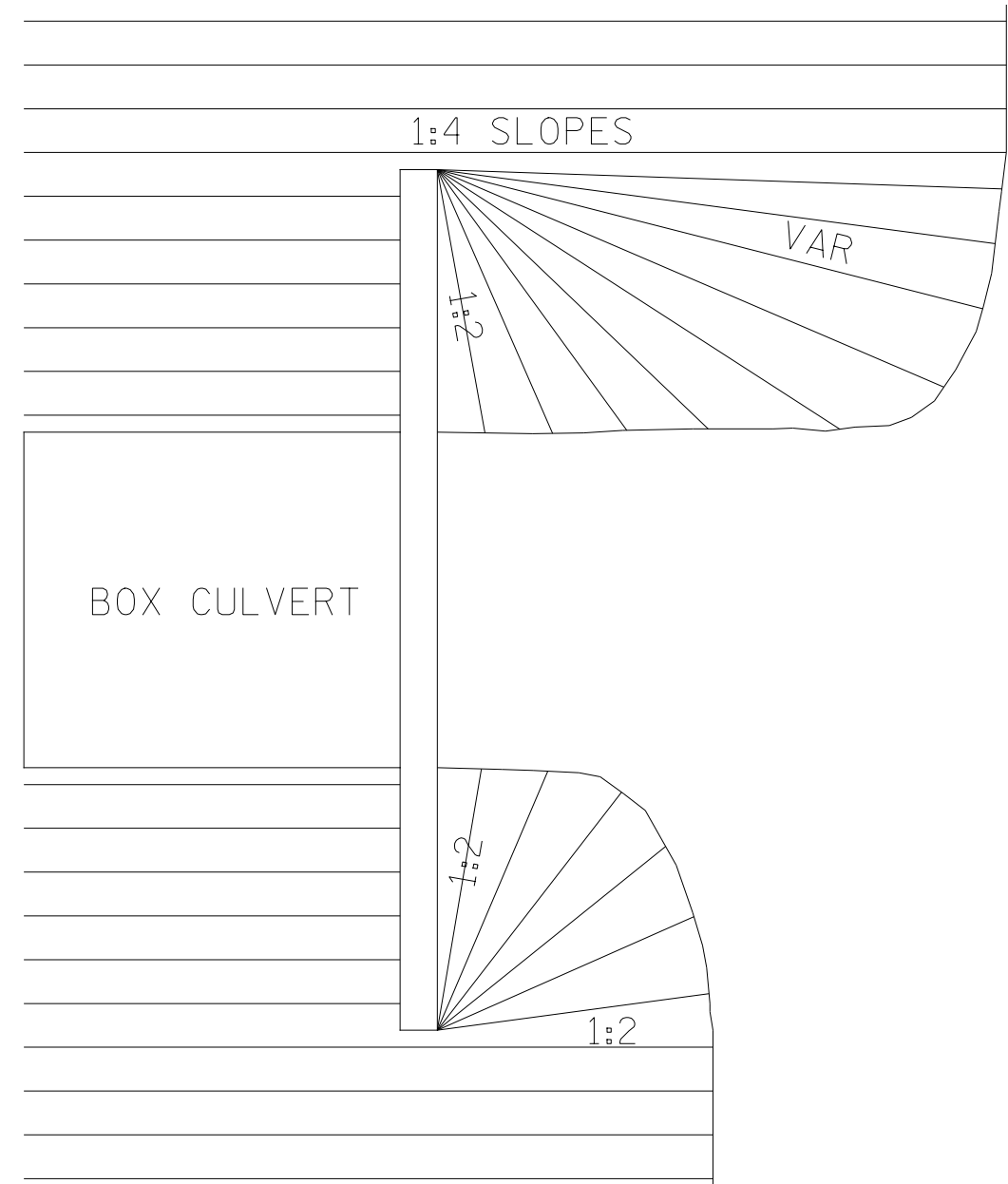
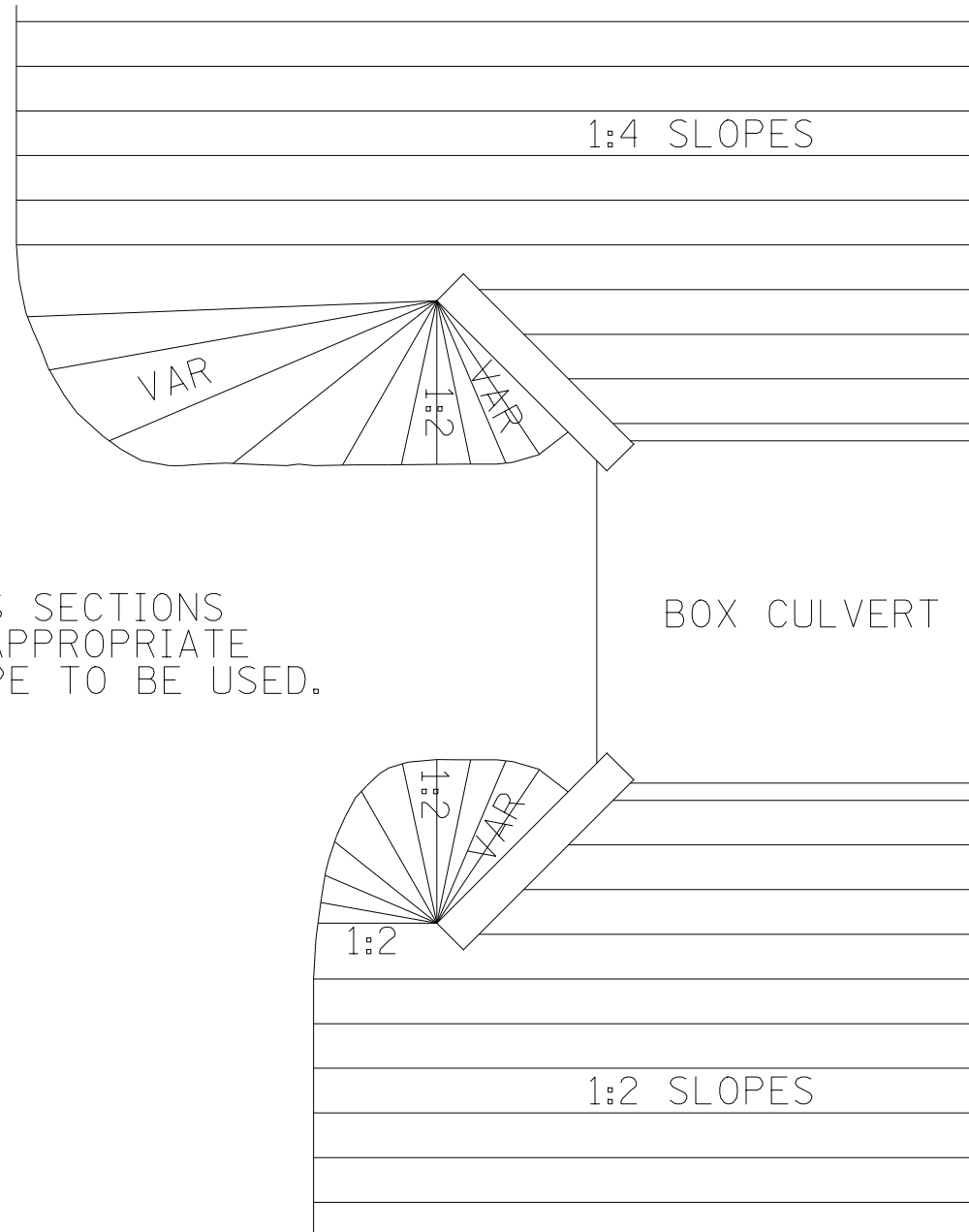
Reinforcement bars designated (E) shall be epoxy coated.

FRANK J. WILLIAMS  
081-085037  
LICENSED STRUCTURAL ENGINEER OF ILLINOIS  
FEBRUARY 23, 2017  
LIC. EXP. - 11/30/2018



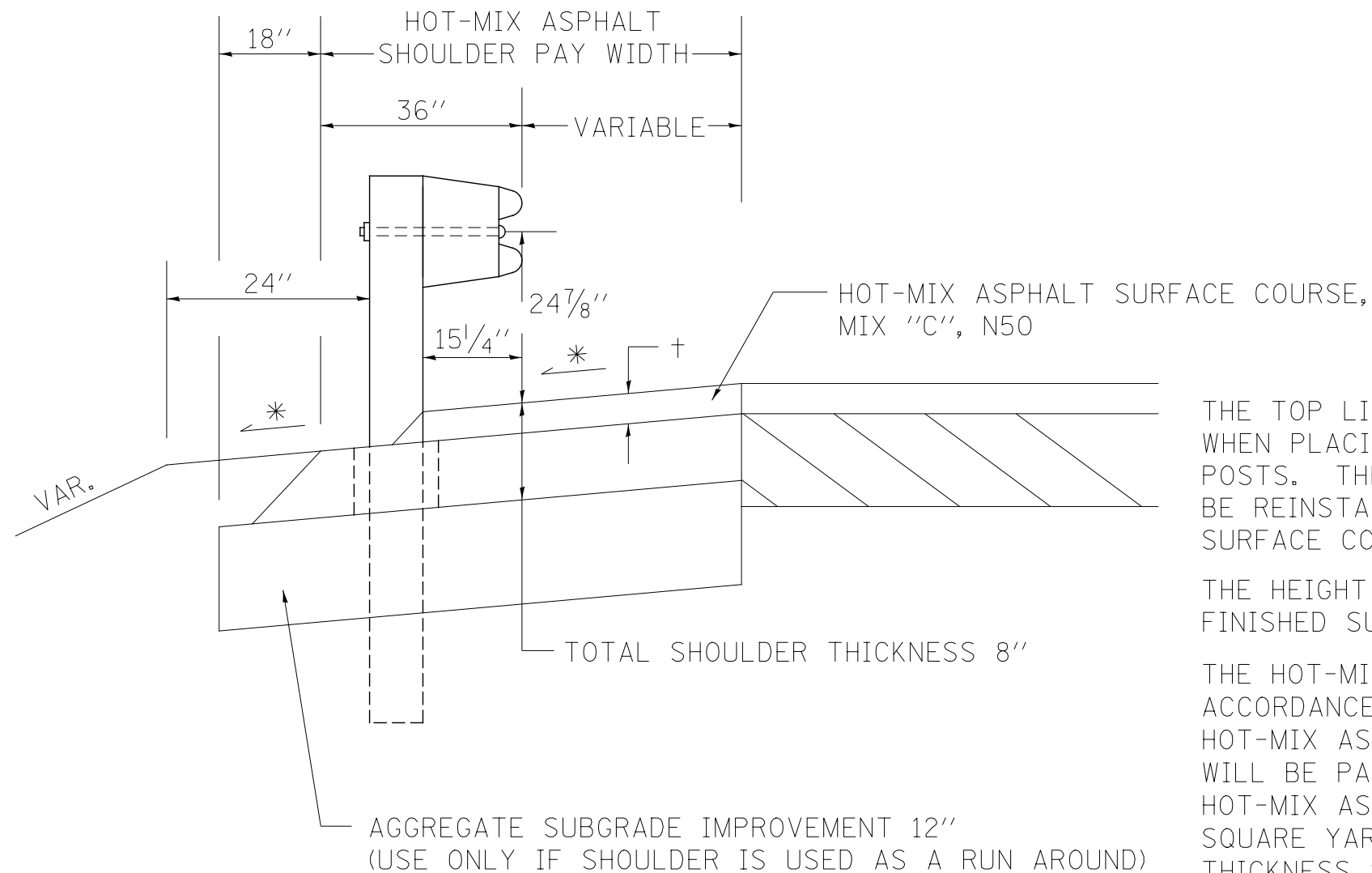
**STRUCTURAL SLAB DETAIL**  
**IL 2 OVER DRAINAGE CULVERT**  
**F.A.P. RTE. 742 SEC. (34,35)CLV**  
**WINNEBAGO COUNTY**  
**STA. 119+75**  
**STRUCTURE NO. 101-1019**

# GRADING AROUND WINGWALLS



NOTES  
SEE CROSS SECTIONS  
FOR THE APPROPRIATE  
FRONTSLOPE TO BE USED.

# DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARDRAIL



+ = SEE TYPICAL SECTIONS FOR THICKNESS

## GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED. THE RAIL ELEMENT SHALL BE REINSTALLED WITHIN 72 HOURS OF THE COMPLETION OF THE SURFACE COURSE.

THE HEIGHT OF THE GUARDRAIL SHALL BE SET  $24\frac{7}{8}$ " FROM THE FINISHED SURFACE.

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATED SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

<b>KNIGHT</b> Engineers & Architects	USER NAME = dcorral	DESIGNED FW	REVISED - 1-05-16	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:1	DRAWN DC	REVISED - 6-27-14			742	(34,35)CLV	WINNEBAGO	46	35
	CHECKED -	DATE -	REVISED - 8-27-13			23.4				CONTRACT NO. 64L44
	PLOT DATE = Invalid expression		REVISED - 3-13-13		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

# CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

## Bill of Materials

h BAR	U BAR DIMENSIONS			U <sub>1</sub> BAR DIMENSIONS			REINF. BARS	EXPANSION BOLTS	CONCRETE COLLAR		
Quantity	X	Y	Length	Quantity	X	Z	Length	Quantity	LBS	EACH	Cu. Yds.
3	2'-3"	2'-3"	4'-6"	4	-	-	-	-	20	-	0.4
All h Bars 18 Long								Total			

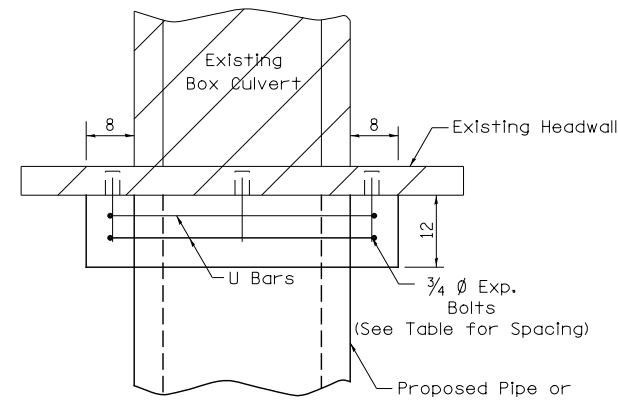
## General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

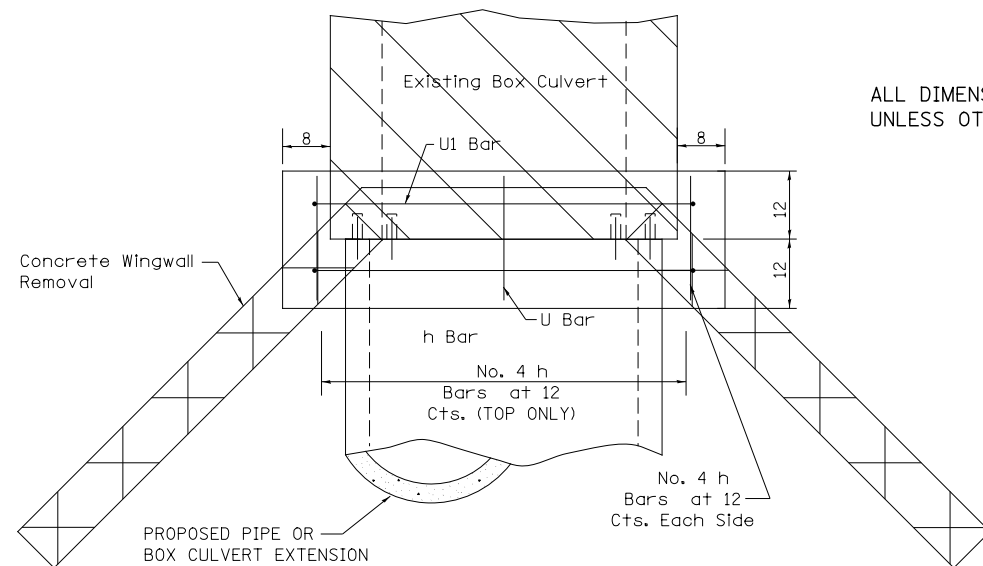
Reinforcement bars shall conform to Section 508 of the Standard Specifications.

Expansion bolts shall conform to Section 540 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic yard for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per pound for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 8 inches into the new concrete.

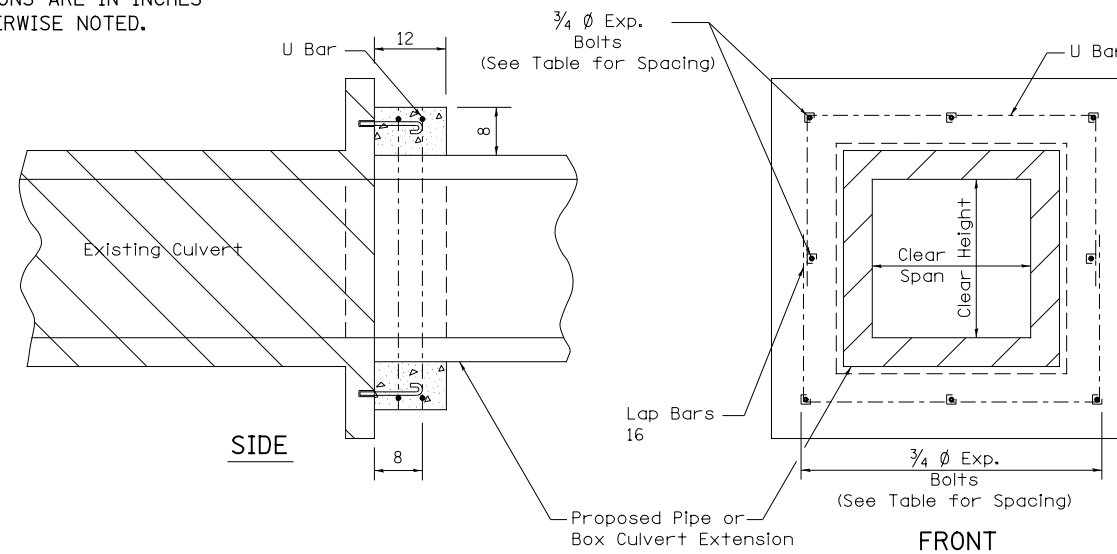


PLAN OF CULVERT WITH STRAIGHT HEADWALL



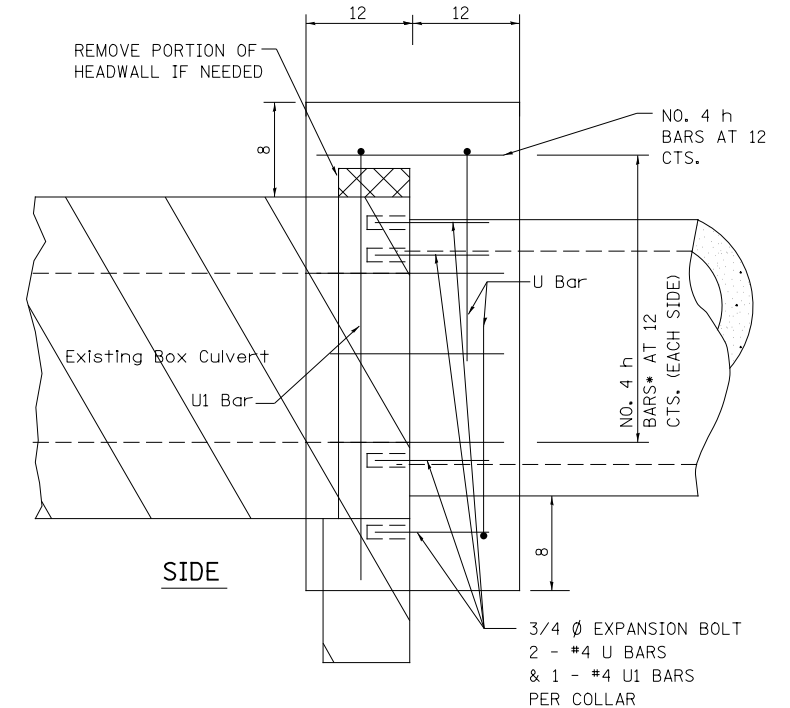
PLAN OF CULVERT WITH ANGLED WING WALLS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SIDE

FRONT

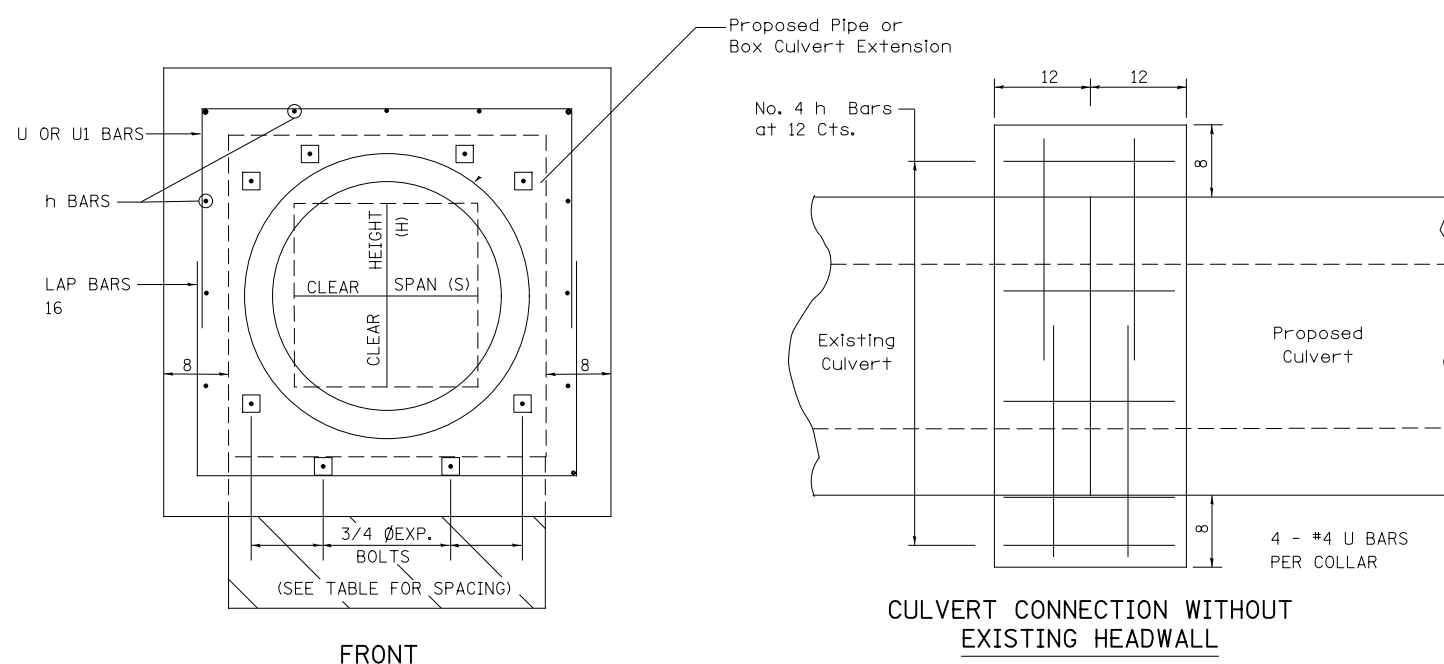


SIDE

PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 15'		EXTENSIONS > 15'	
	NUMBER	SPACING	NUMBER	SPACING
24	*		*	
30	2	18	2	18
36	2	24	2	24
48	3	18	3	18
60	4	16	3	24
72	5	15	4	20
84	5	18	4	24
96	6	15	5	21
108	6	19	5	24
120	7	18	6	21
132	8	17	6	24
144	8	19	7	22

\* MINIMUM ONE PER SIDE



FRONT

CULVERT CONNECTION WITHOUT EXISTING HEADWALL

(#4) U BAR

(#4) U1 BAR

**KNIGHT**  
Engineers & Architects

USER NAME = dcorral	DESIGNED FW	REVISED - 1-05-16
PLOT SCALE = 1:2	DRAWN BC	REVISED - 6-27-14
PLOT DATE = Invalid expression	CHECKED -	REVISED - 10-17-11
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

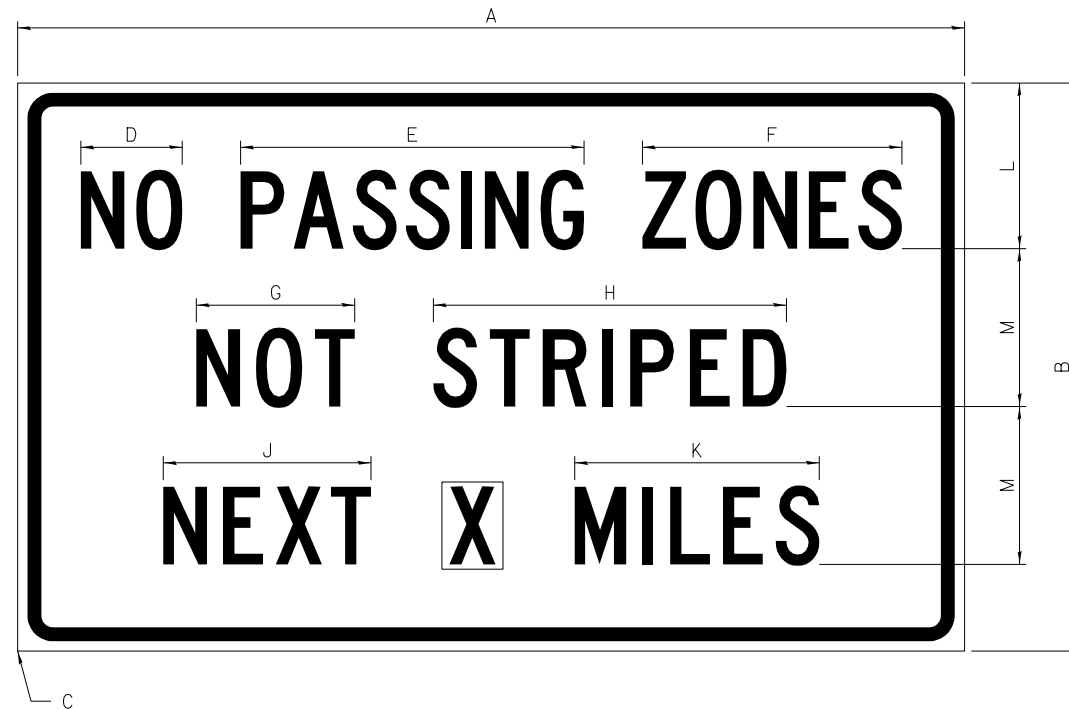
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	WINNEBAGO	46	36
	33.1		CONTRACT NO. 64L44	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# WORK ZONE SIGN DETAILS

**ILLINOIS STANDARD G20-I100**



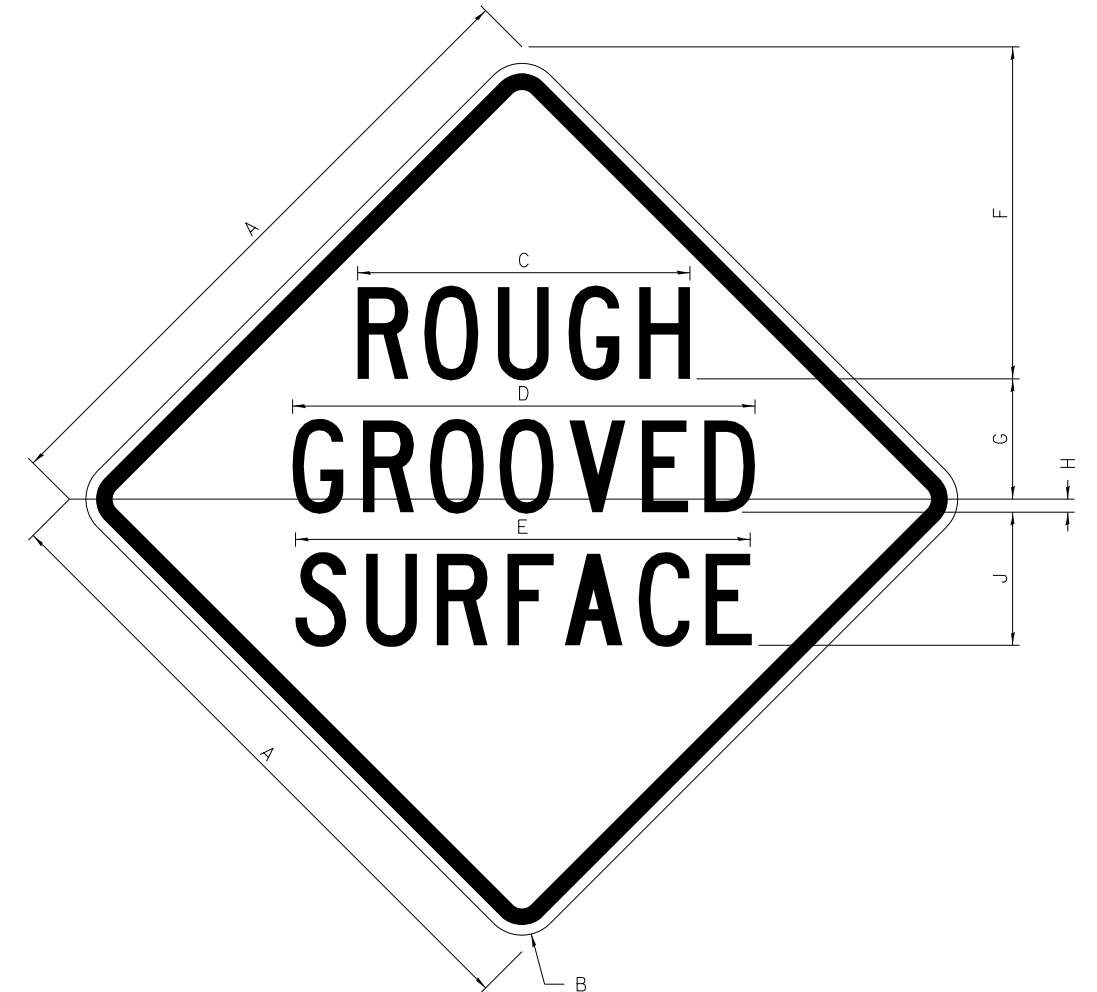
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

**ILLINOIS STANDARD W8-I107**



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

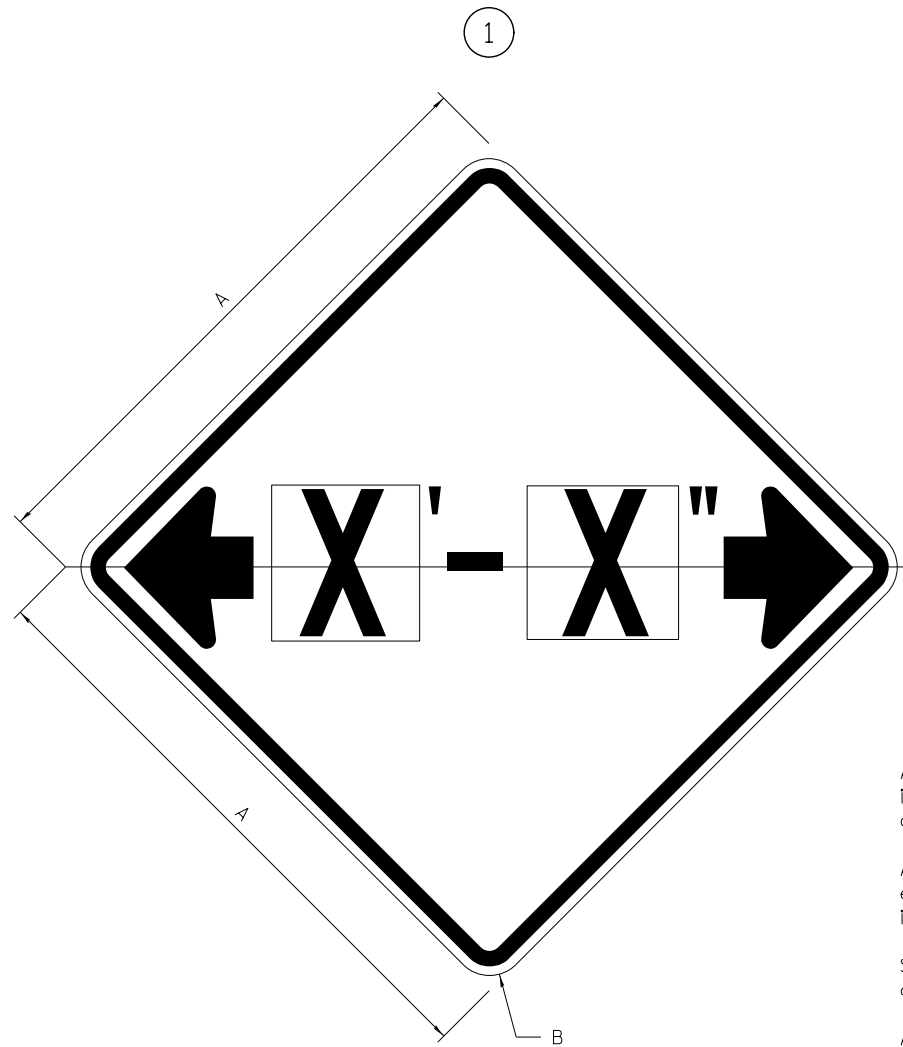
All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

# WORK ZONE SIGN DETAILS

## ILLINOIS STANDARD W12-I102



### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

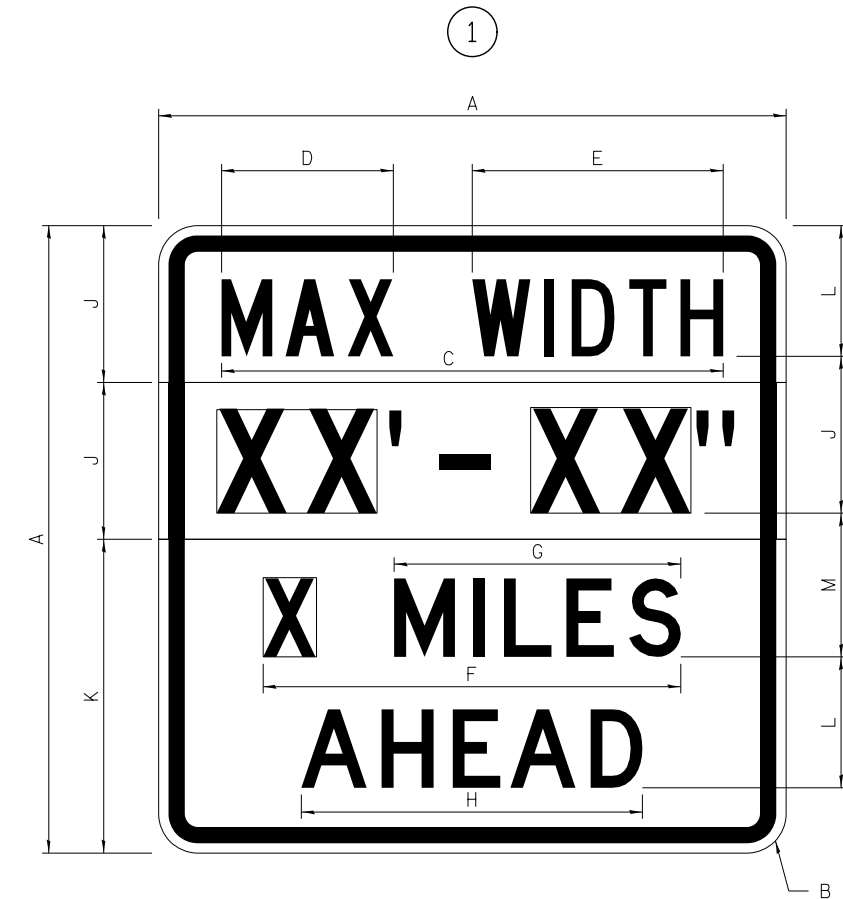
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

## ILLINOIS STANDARD W12-I103



COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

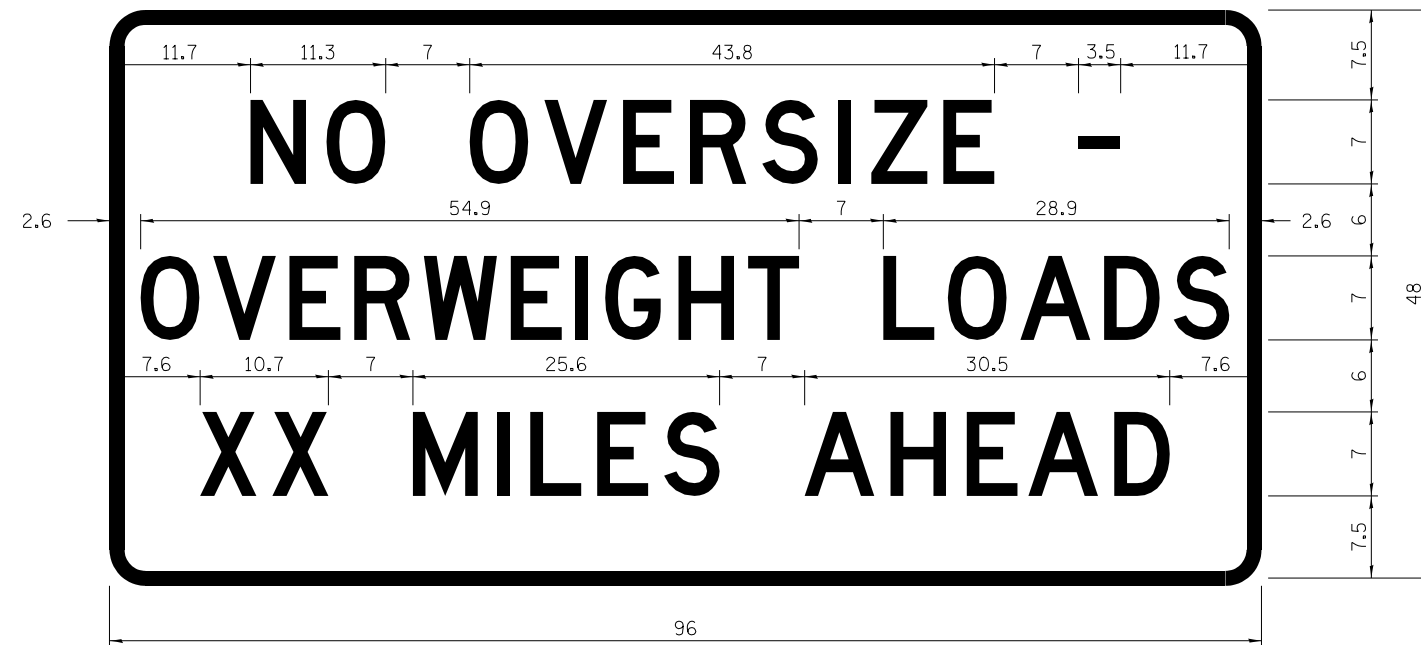
Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

# WORK ZONE SIGN DETAILS

## ROAD CLOSED TO OVERSIZED LOADS

## STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border; [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D; Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

Sign not to scale

### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

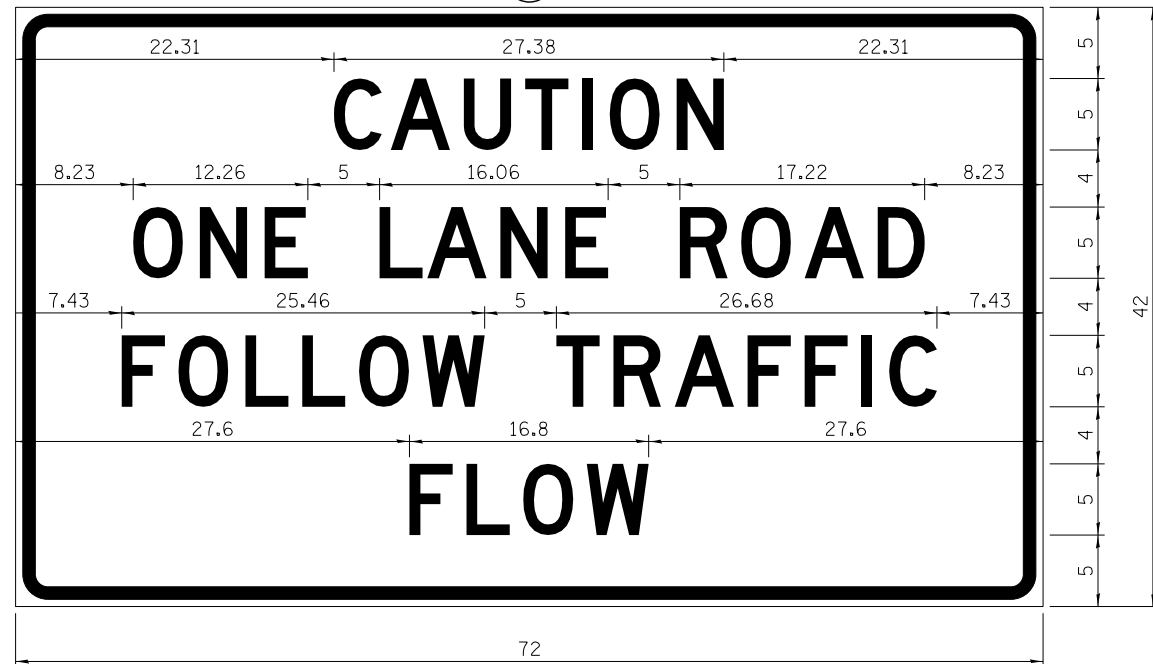
Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**ENTRANCE SIGN FOR USE  
WITH TEMPORARY SIGNALS**

**WORK ZONE SIGN DETAILS**

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;  
[CAUTION] D; [ONE LANE ROAD] D;  
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

**Table Of Widths And Spaces**

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

**STAY IN YOUR LANE**



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;  
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

**Table of Letter and Object Lefts**

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

<b>KNIGHT</b> Engineers & Architects	USER NAME = dcorral	DESIGNED FW	REVISED - 3-02-16
	PLOT SCALE = 1:2	DRAWN BC	REVISED -
	PLOT DATE = Invalid expression	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

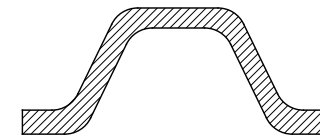
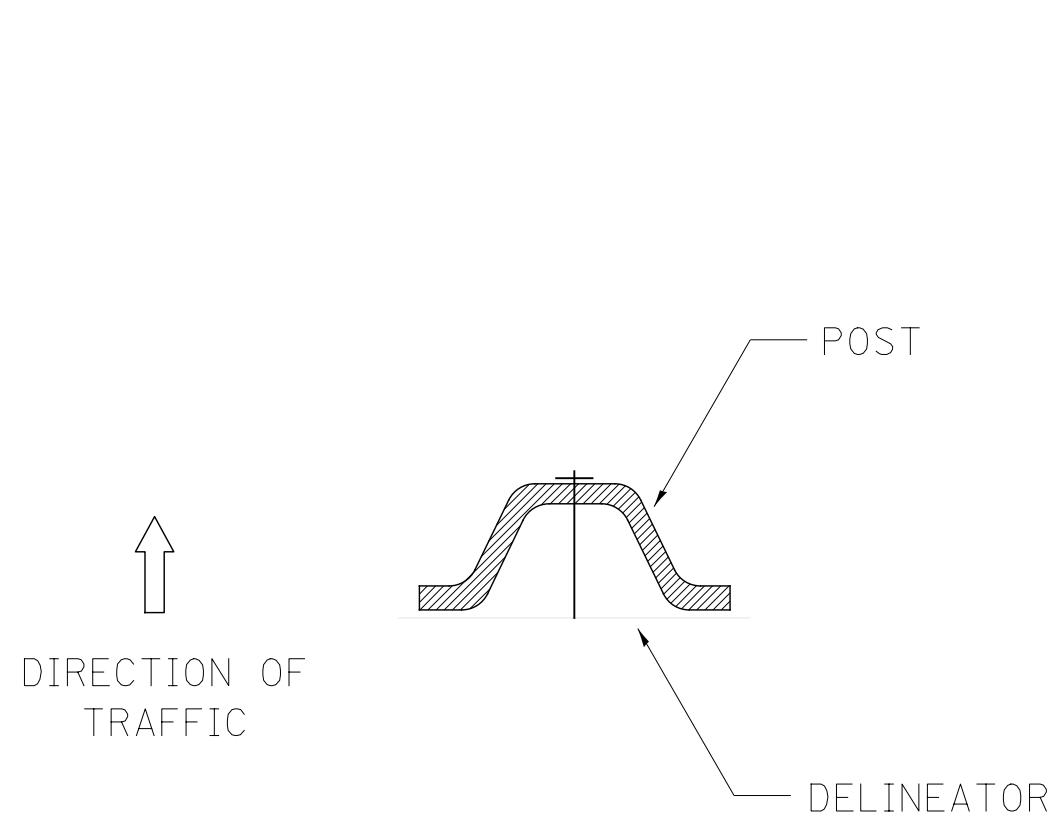
**REGION 2 / DISTRICT 2 STANDARD**

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

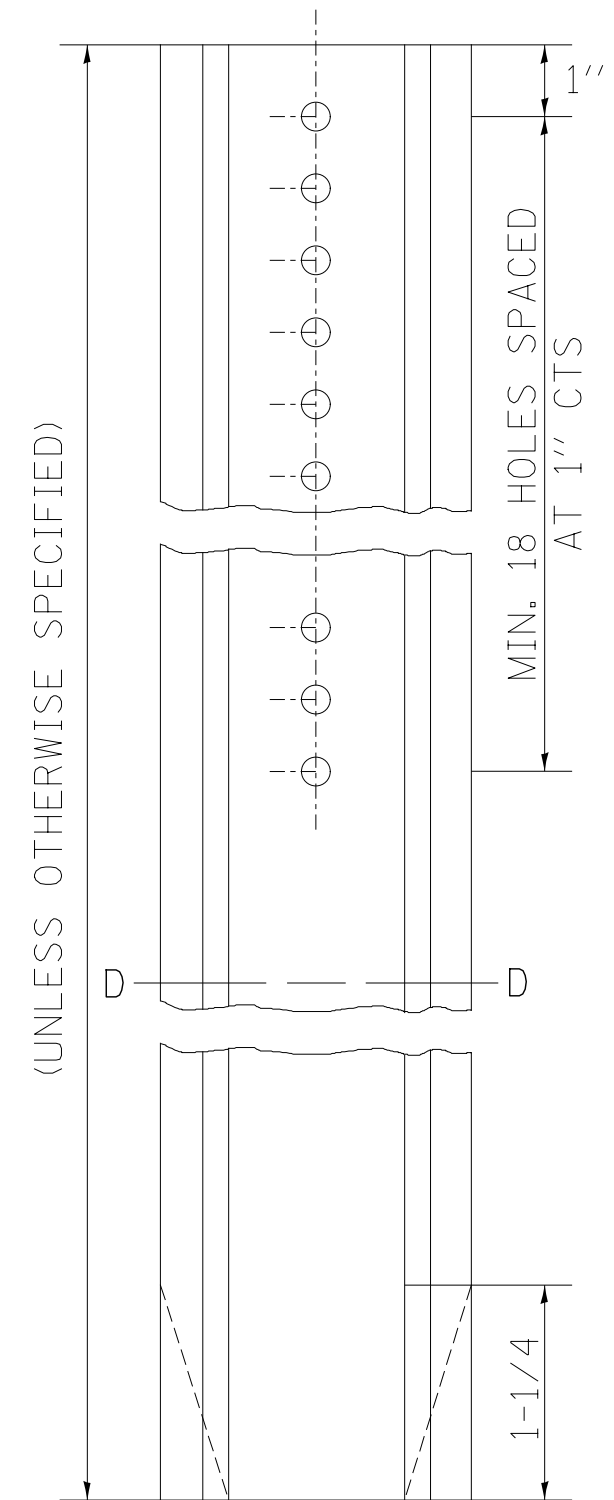
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	WINNEBAGO	46	40
34.1		CONTRACT NO. 64L44		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



# DELINEATOR AND POST ORIENTATION



SECTION D-D

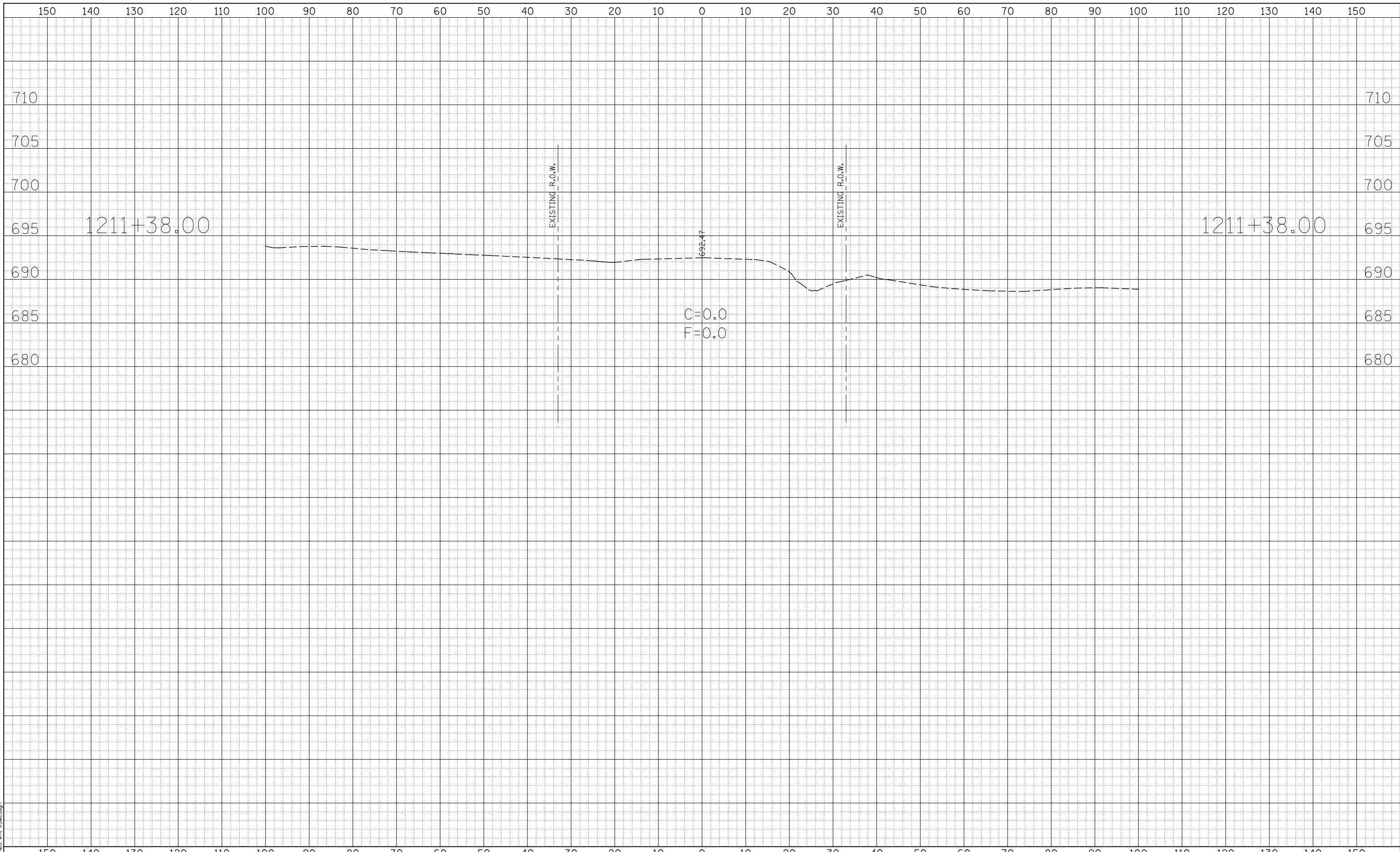


DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

<b>KNIGHT</b> Engineers & Architects	USER NAME = dcorral	DESIGNED FW	REVISED - 1-05-16	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:2	DRAWN BC	REVISED - 8-27-13				742	(34,35)CLV	WINNEBAGO	46	41
PLOT DATE = Invalid expression	CHECKED -	REVISED - 7-30-13	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64L44
	DATE -	REVISED -									



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

FILE NAME = 718905-stt-XSec.dgn



USER NAME = dcorral	DESIGNED -	REVISED -
PLOT SCALE = 1:9,999.98	DRAWN -	REVISED -
PLOT DATE = Invalid expression	CHECKED -	REVISED -
	DATE -	REVISED -

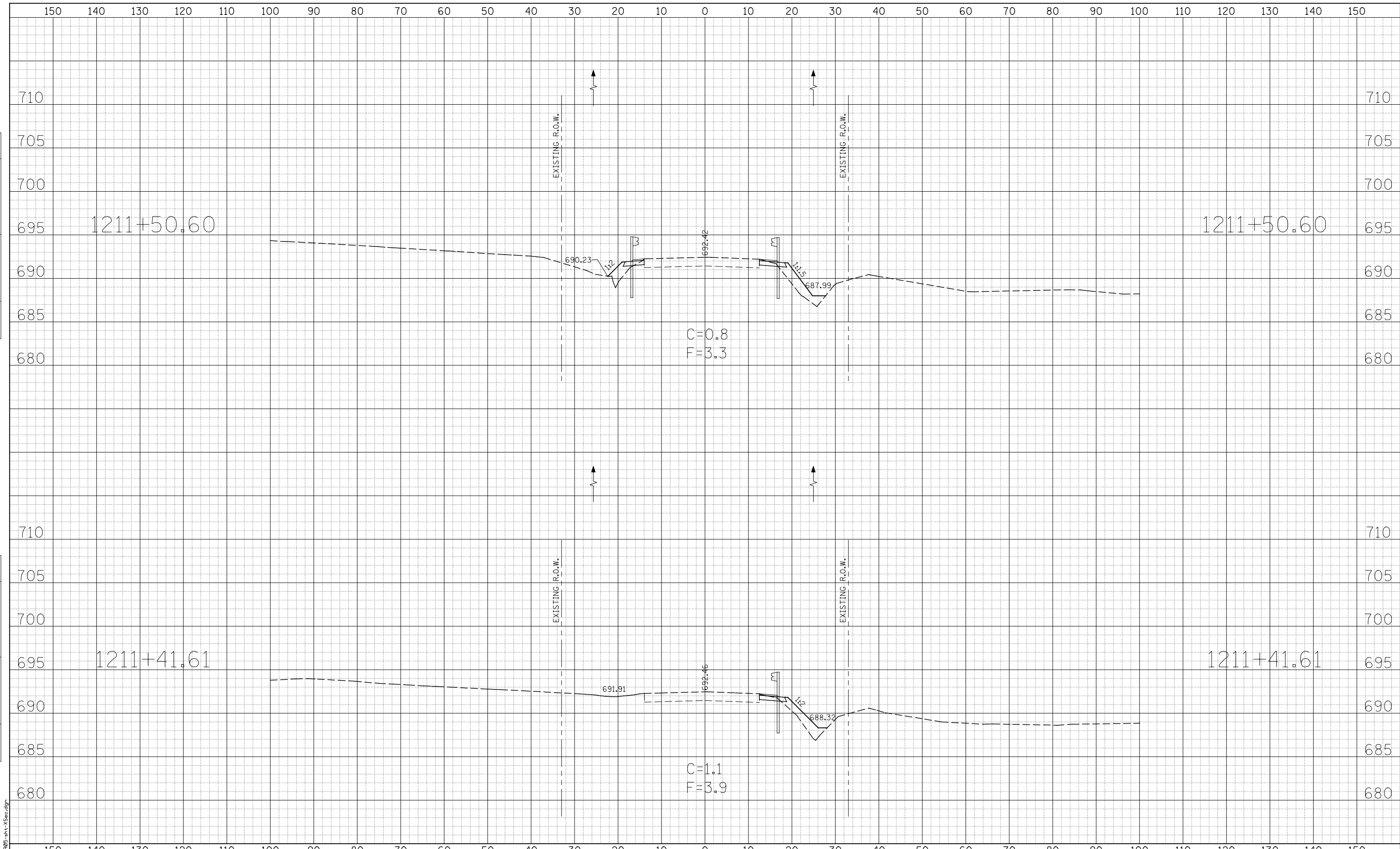
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL2 S.N. 071-1100 CROSS SECTIONS</b>			
SCALE:	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	OGLE	46	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L44	

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

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



FILE NAME = 718905-sht-15sec.dgn



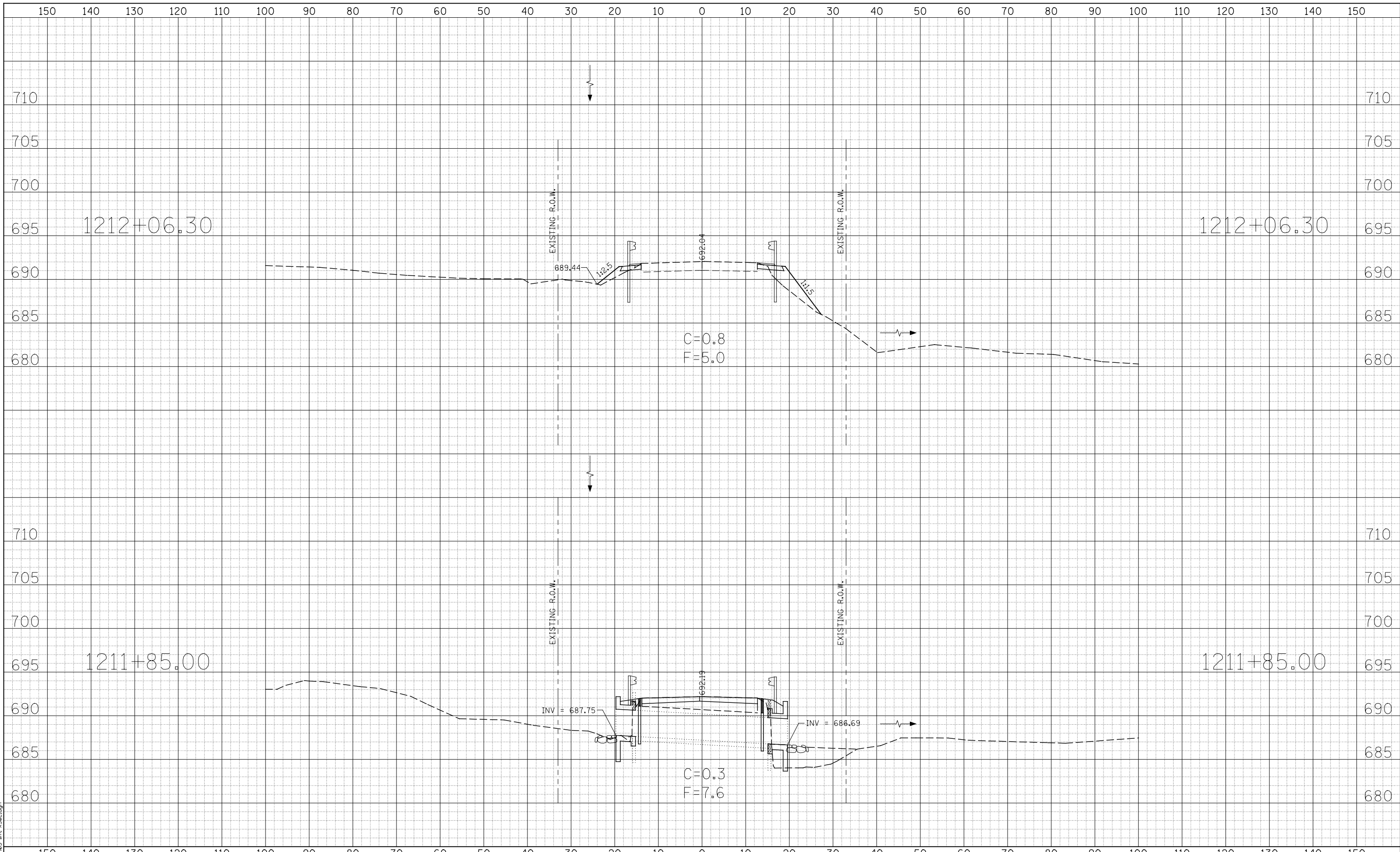
USER NAME = dcorroll	DESIGNED -	REVISED -
PLOT SCALE = 1:9,999.98	DRAWN -	REVISED -
PLOT DATE = Invalid expression	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL2  
S.N. 071-1100 CROSS SECTIONS

SCALE: SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	OGLE	46	43
CONTRACT NO. 64L44				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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

FILE NAME = 718905-stt-15sec.dgn



USER NAME = DCorroll	DESIGNED -	REVISED -
PLOT SCALE = 1:9,999.98	DRAWN -	REVISED -
PLOT DATE = Invalid expression	CHECKED -	REVISED -
	DATE -	REVISED -

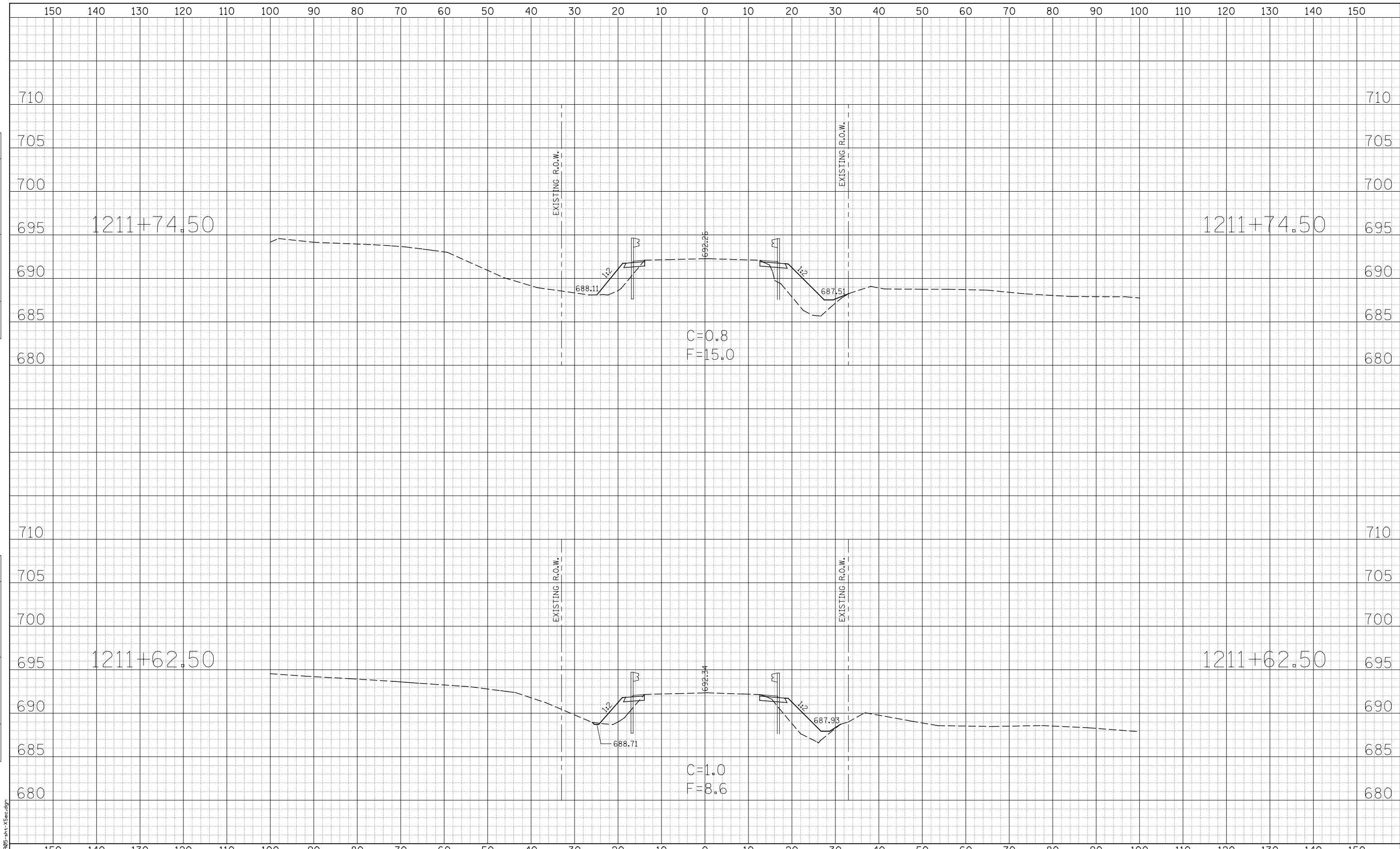
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL2</b>			
<b>S.N. 071-1100 CROSS SECTIONS</b>			
SCALE:	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	OGLE	46	44
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 64L44				

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

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



FILE NAME = 718905-sht-3Spec.dgn



USER NAME = dcorroll	DESIGNED -	REVISED -
PLOT SCALE = 1:9,999.98	DRAWN -	REVISED -
PLOT DATE = Invalid expression	CHECKED -	REVISED -
	DATE -	REVISED -

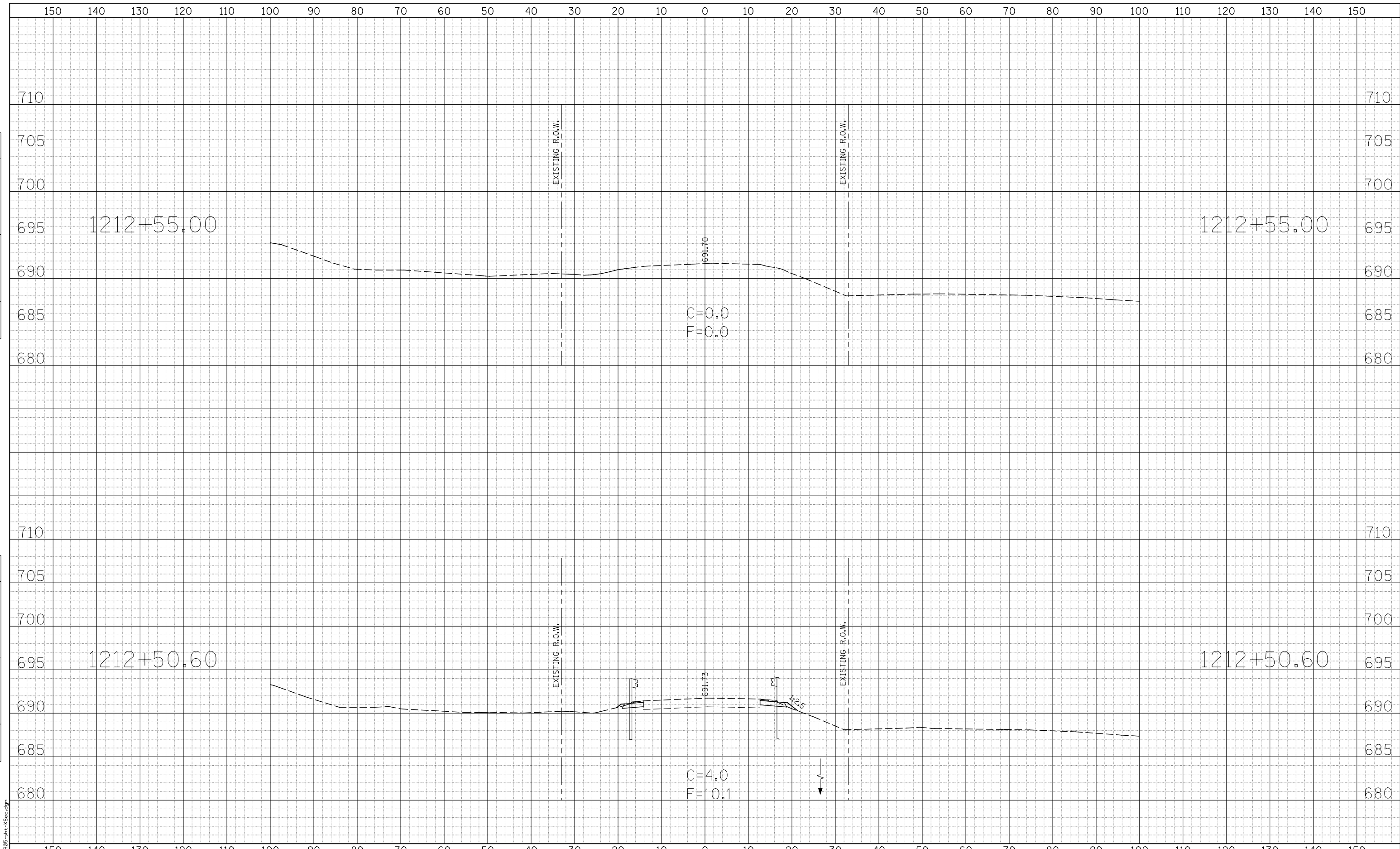
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL2</b>	
<b>S.N. 071-1100 CROSS SECTIONS</b>	
SCALE:	SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	OGLE	46	45
CONTRACT NO. 64L44				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = 718905-sht-15sec.dgn



USER NAME = dcorroll	DESIGNED -	REVISED -
PLOT SCALE = 1:9,999.98	DRAWN -	REVISED -
PLOT DATE = Invalid expression	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL2</b>	
<b>S.N. 071-1100 CROSS SECTIONS</b>	
SCALE:	SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	(34,35)CLV	OGLE	46	46
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L44	