

016

**INDEX OF SHEETS**

01-18-2019 LETTING ITEM 016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101BR-1)BP	BUREAU	13	1
		ILLINOIS	CONTRACT NO. 66J46	

1. COVER SHEET
2. GENERAL NOTES
- 3 - 4. SUMMARY OF QUANTITIES
5. TYPICAL SECTION
6. ADVANCE SIGNING FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 7 - 8. STAGING DETAILS FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 9 - 12. EXISTING STRUCTURE DETAILS: FOR INFORMATION ONLY
13. DETAILS

**STANDARDS**

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 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
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS  $\geq$  45 MPH
- 701206-05 LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS  $\geq$  45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

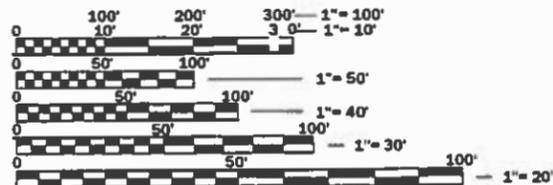
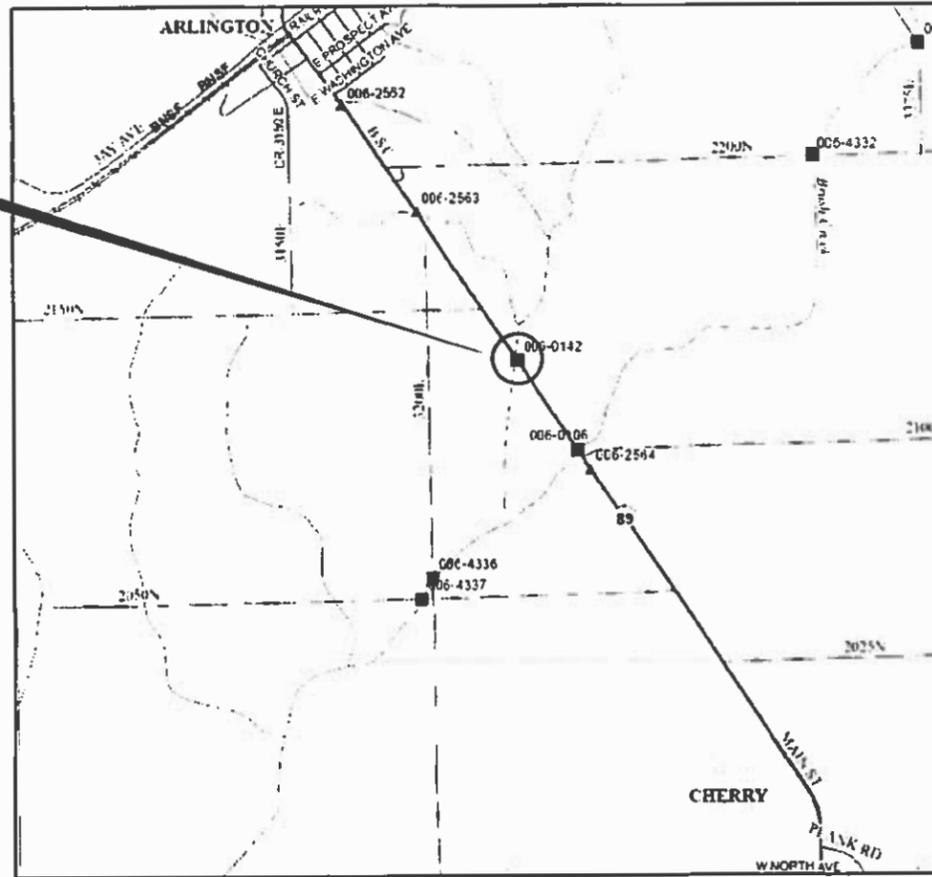
# PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 698 (IL 89)  
SECTION (101BR-1)BP  
PROJECT STP-DSI6(062)  
BRIDGE PAINTING  
BUREAU COUNTY

C-93-096-18



**PROJECT LOCATION**  
STRUCTURE NO. 006-0142  
CARRYING F.A.P. 698 (IL 89)  
OVER A BRANCH OF BRUSH CREEK  
0.8 MILES SOUTH OF ARLINGTON



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

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

PROJECT ENGINEER: JOE KANNEL, P.E.  
UNIT CHIEF: RON WOODSHANK  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66J46

GROSS LENGTH = 63.5 FT. = 0.012 MILE  
NET LENGTH = 63.5 FT. = 0.012 MILE

FUNCTIONAL CLASSIFICATION  
URBAN - MINOR ARTERIAL  
F.A.P. ROUTE 68 (IL 23)  
2017 ADT = 3100  
P.V. 79.5% S.U. 15.3% M.U. 5.2%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 10-18-2018  
[Signature]  
REGIONAL ENGINEER

Dec 7 2018  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2018  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**GENERAL NOTES**

1. 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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
2. THE EXISTING STRUCTURAL STEEL CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
3. STRUCTURE NO. 006-0142 SHALL BE DESIGNATED AS "LOCATION 1".
4. THE SSPC-QP1 AND SSPC-QP2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.
5. A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS STRUCTURE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS AS DIRECTED BY THE ENGINEER. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".)
6. CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND AS SPECIFIED BELOW.
  - a) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIAPHRAGMS, DRAINS, CROSS/LATERAL FRAMING WHEN PRESENT, AND ALL SURFACES OF BEARING ASSEMBLIES WITHIN A DISTANCE OF 12' FROM BEAM END SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".
  - b) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIAPHRAGMS, DRAINS, CROSS/LATERAL FRAMING WHEN PRESENT AND ALL SURFACES OF BEARING ASSEMBLIES WITHIN A DISTANCE OF 12' FROM BEAM END SHALL BE PAINTED PER THE REQUIREMENT OF "PAINT SYSTEM 1-OZ/E/U".
  - 1) THE FINAL FINISH COAT FOR ALL STRUCTURAL STEEL SHALL BE MUNSELL NO. 2.5YR 3/4. REDDISH BROWN.
7. THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.
8. WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LISCENSED TO DISPOSE OF NON-LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE NON-LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED COMPLETION DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN PROPERLY REMOVED AND DISPOSED OF.

**COMMITMENTS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION:

INSPECTORS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: *D. Beaulieu*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 10-18-18

EXAMINED BY: *Kyle Videman*  
DISTRICT CONSTRUCTION ENGINEER

*Michael A. Shea*  
DISTRICT MATERIALS ENGINEER

*Tom Hagan*  
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = woodshank1	DESIGNED - JW	REVISED -
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		CHECKED - RW	REVISED -
Default	PLOT DATE = 8/10/2018	DATE - 05/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101BR-1)BP	BUREAU	13	2
CONTRACT NO. 66J46				
ILLINOIS   FED. AID PROJECT				

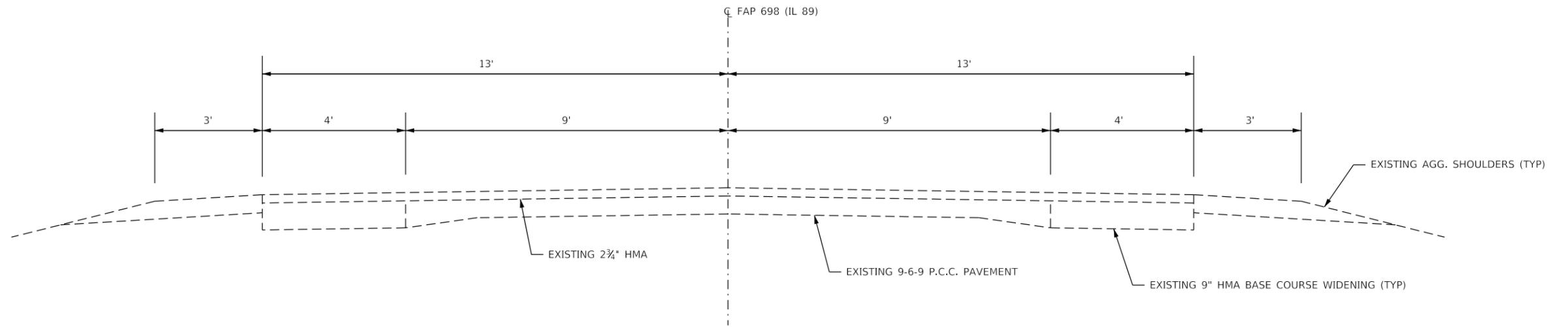
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				BRIDGE PAINTING
				80% FED 20% STATE
				BRIDGE
			0047	
			S.N. 006-0142	
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	200	200
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	200	200
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	150	150
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	72	72
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	6	6
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

\*= SPECIALTY ITEM

FILE NAME =	USER NAME = woodshank1	DESIGNED - JW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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						SHEET 1 OF 2 SHEETS		STA. TO STA.		

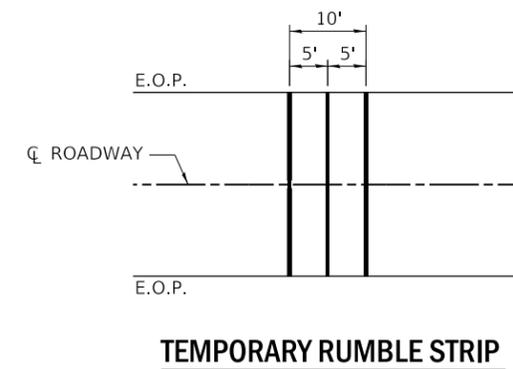
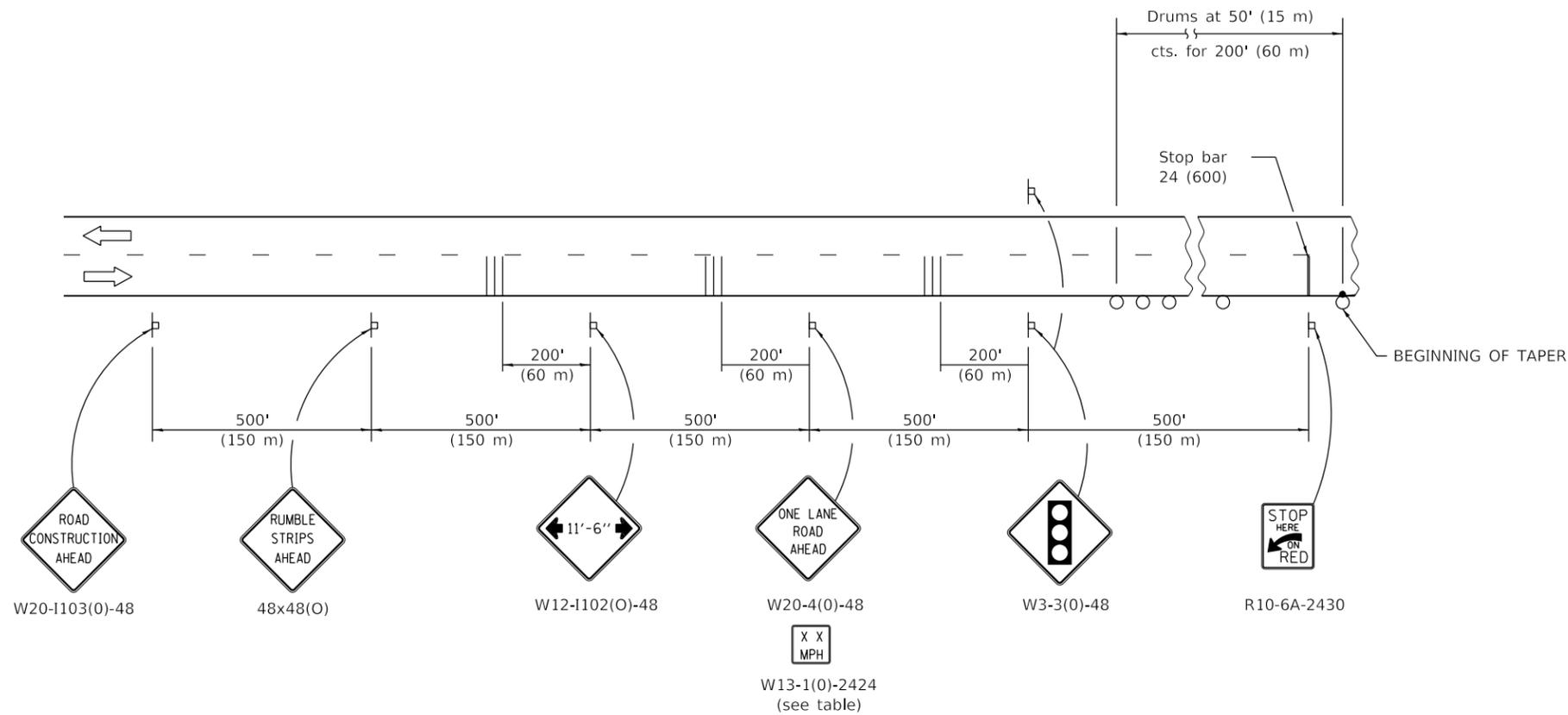
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE PAINTING 80% FED 20% STATE BRIDGE 0047 S.N. 006-0142
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42

FILE NAME =	USER NAME = woodshank1	DESIGNED - JW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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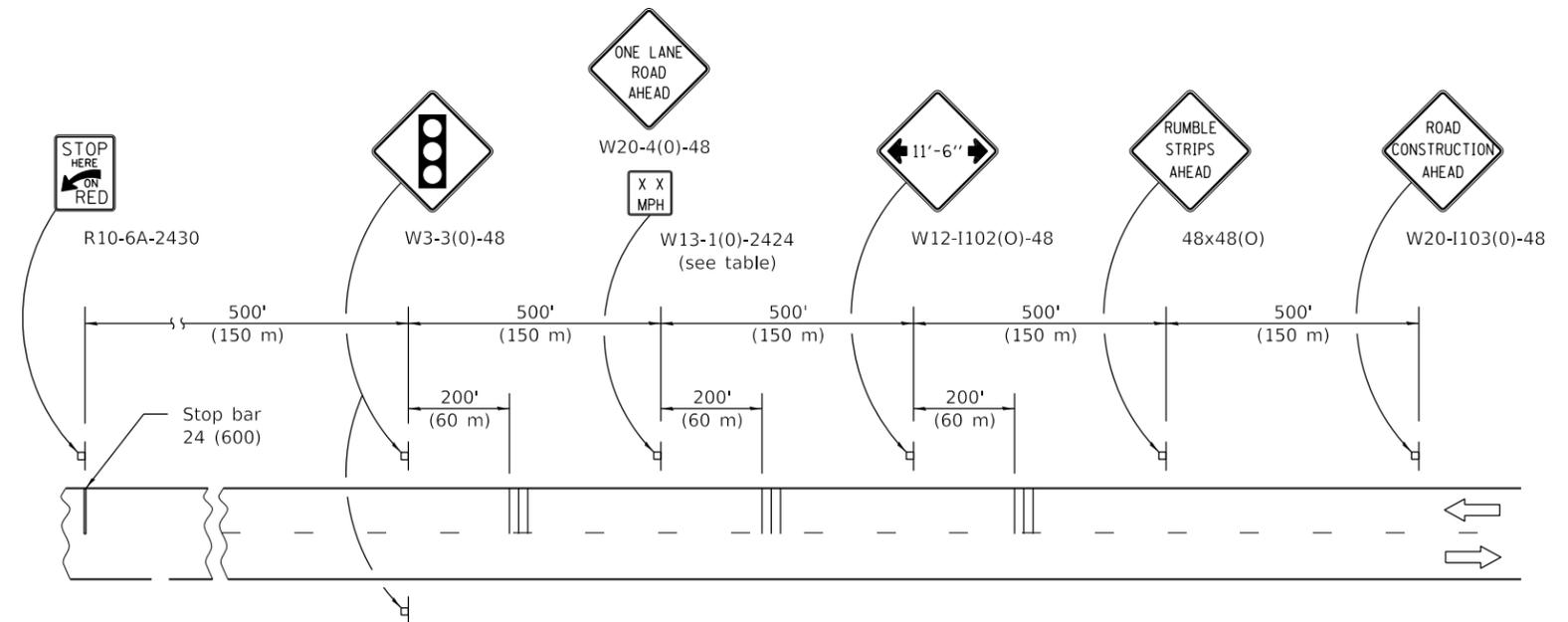
**TYPICAL SECTION**

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	PLOT DATE = 7/26/2018	DATE - 05/16/2018	REVISED -		SHEET 1 OF 1 SHEETS			STA.	TO STA.	ILLINOIS FED. AID PROJECT		



**SYMBOLS**

- SIGN
- TEMPORARY RUMBLE STRIP (SEE DETAIL & SPECIAL PROVISION)
- DRUM
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT



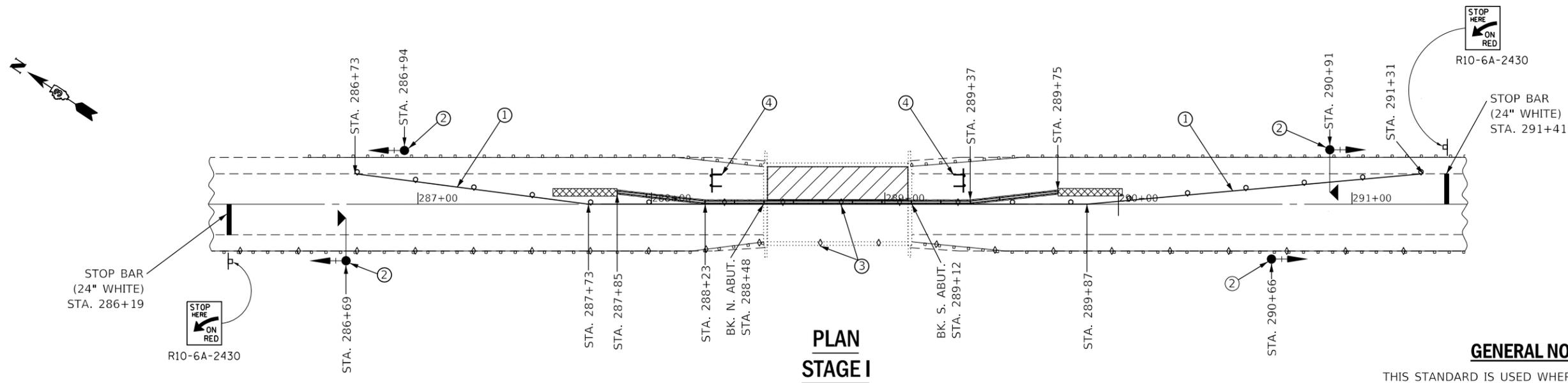
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADVANCE SIGNING FOR TRAFFIC CONTROL  
AND PROTECTION, STANDARD 701321

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101BR-1)BP	BUREAU	13	6
CONTRACT NO. 66J46				
ILLINOIS FED. AID PROJECT				



**PLAN  
STAGE I**

**GENERAL NOTES**

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

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

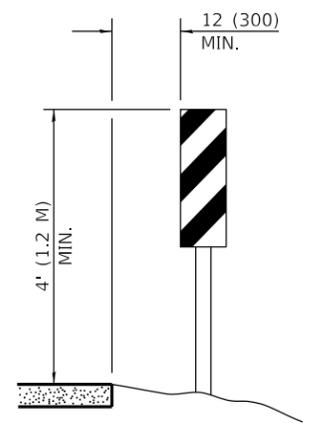
TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

THE ARROW ON THE BACKSIDES OF DIRECTIONAL INDICATOR BARRICADES MUST BE REMOVED OR COVERED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL STANDARDS.

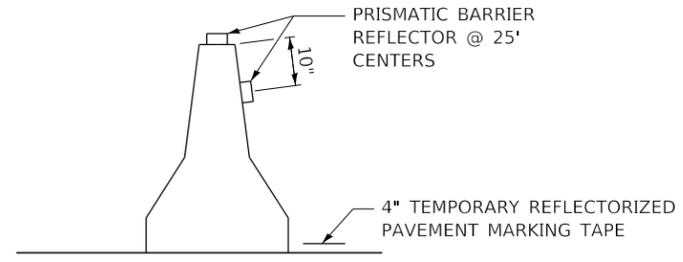
TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

TEMPORARY CONCRETE BARRIER	
NORMAL POSTED SPEED	TAPER RATIO
40 mph AND ABOVE	12:1
BELOW 40 mph	8:1

ADVISORY SPEED LIMIT	
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph



**VERTICAL PANELS**  
(POST MOUNTED, ONE EACH SIDE)

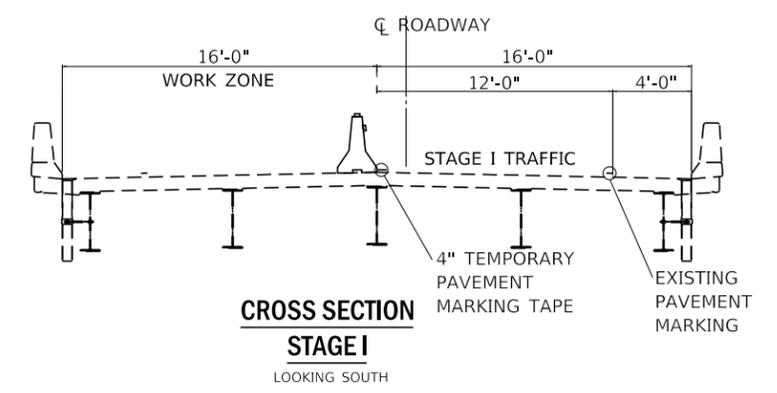


**TEMPORARY CONCRETE BARRIER WALL DETAILS**

**SYMBOLS**

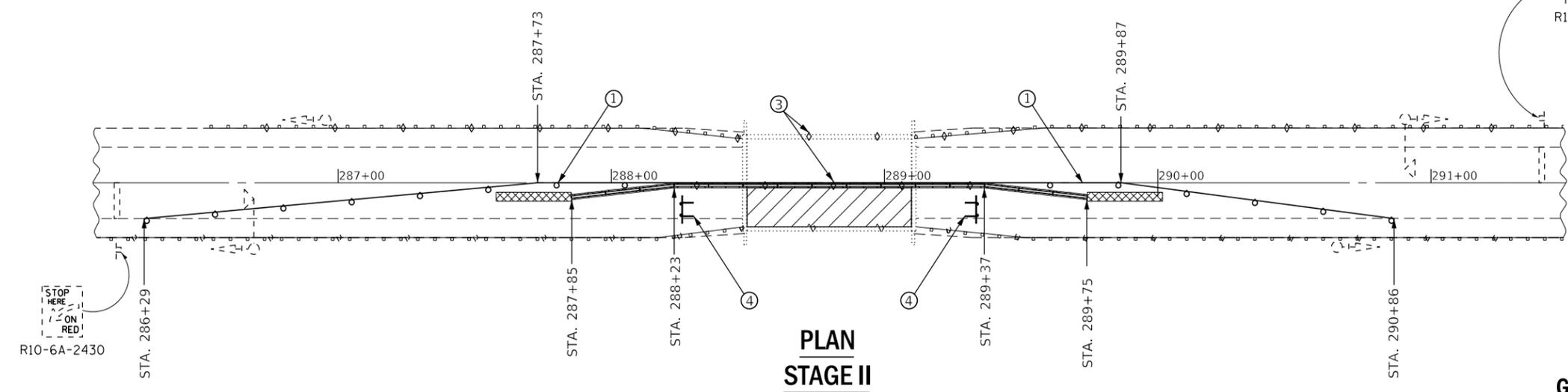
- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL WITH BACKPLATE
- TEMPORARY IMPACT ATTENUATOR (NARROW)
- MICROWAVE DETECTOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (TAPERS)
- DRUM (TANGENTS)
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① TEMPORARY REFLECTORIZED PAVEMENT MARKING TAPE. (4")
- ② THE EDGE OF THE POST MOUNTED SIGNAL HEADSHALL BE BETWEEN 24 (610) AND 6' (1.8 M) FROM EDGE OF SHOULDER.
- ③ GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- ④ TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.



**CROSS SECTION  
STAGE I**  
LOOKING SOUTH

STOP  
HERE  
ON  
RED  
R10-6A-2430



**PLAN  
STAGE II**

**GENERAL NOTES**

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCRANCH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

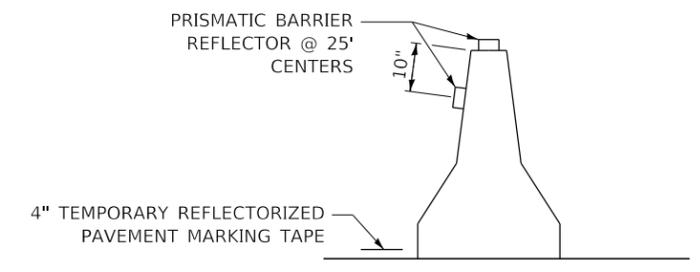
TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

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

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

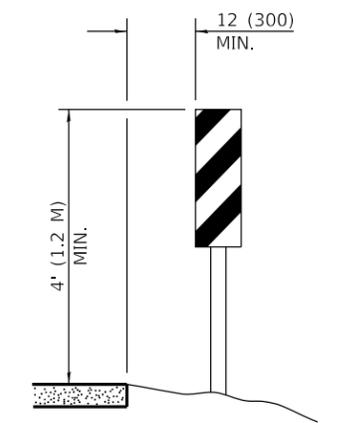


**TEMPORARY CONCRETE BARRIER WALL DETAILS**

TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

TEMPORARY CONCRETE BARRIER	
NORMAL POSTED SPEED	TAPER RATIO
40 mph AND ABOVE	12:1
BELOW 40 mph	8:1

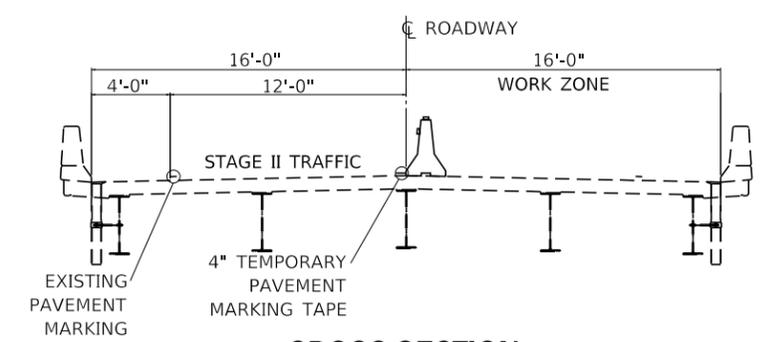
ADVISORY SPEED LIMIT	
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph



**VERTICAL PANELS**  
(POST MOUNTED, ONE EACH SIDE)

- SYMBOLS**
- WORK AREA
  - SIGN
  - TYPE III BARRICADE WITH FLASHING LIGHTS
  - TRAFFIC SIGNAL WITH BACKPLATE INSTALLED FOR STAGE I
  - TEMPORARY IMPACT ATTENUATOR (NARROW)
  - MICROWAVE DETECTOR INSTALLED FOR STAGE I
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (TAPERS)
  - DRUM (TANGENTS)
  - TEMPORARY CONCRETE BARRIER
  - CRYSTAL, BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① TEMPORARY REFLECTORIZED PAVEMENT MARKING TAPE. (4")
- ② THE EDGE OF THE POST MOUNTED SIGNAL HEADSHALL BE BETWEEN 24 (610) AND 6' (1.8 M) FROM EDGE OF SHOULDER.
- ③ GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- ④ TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.



**CROSS SECTION  
STAGE II**  
LOOKING SOUTH

B.M.: Chiseled "a" in NW wingwall. Elev. 696.52

Existing Structure: \*006-0105 The existing structure built in 1927 as S.B.I. 162 Section 101 B is a 32'-3 3/4" Bk to Bk single span bridge. The existing superstructure consists of a 24'-4" out to out, reinforced concrete slab which is supported by reinforced concrete closed abutments. Portions of existing structure is to be removed as required. Due to the fixed-fixed condition of the abutments, provisions shall be made to brace the lateral earth loads during construction. Traffic shall be maintained at all times utilizing stage construction.

No Salvage.

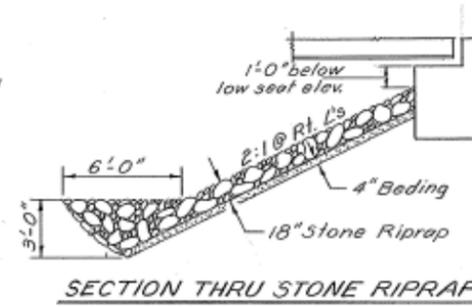
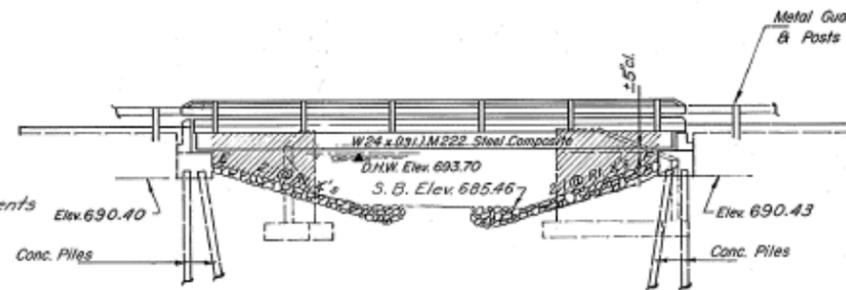
Notes:  
Hatched area indicates excavation behind existing abutments. Cost of Excavation behind existing abutments and pavement removal shall be incidental to Removal of Existing Structures.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(101BR-1)	BUREAU	17	11

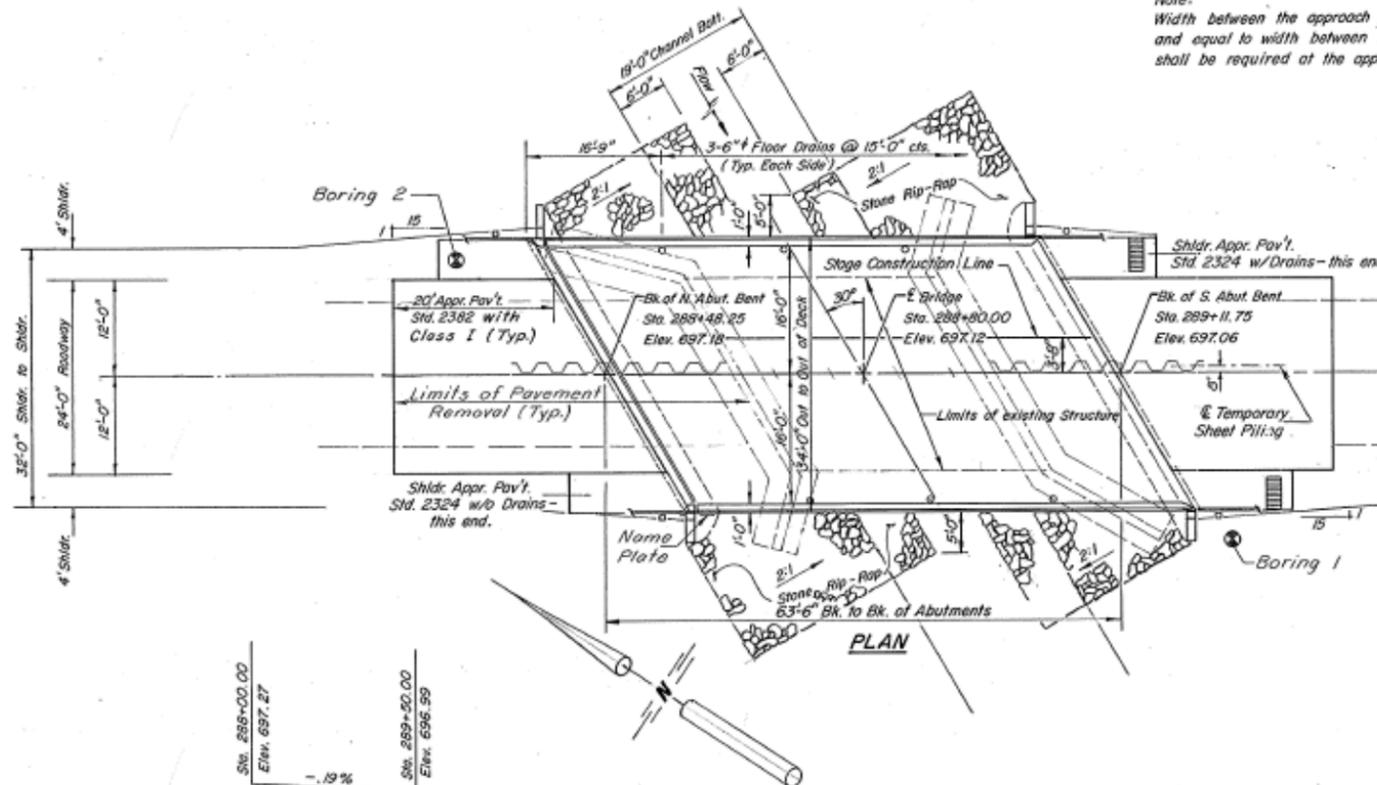
GENERAL NOTES

See Proposal for Boring Data. Fasteners shall be high strength bolts (AASHTO M 164, Type 3). Bolts 3/4" open holes 1 1/8", unless otherwise noted. Calculated weight of Structural Steel = 44,180 Lbs. All structural steel shall be AASHTO M 222 unpainted except armor angles which shall be AASHTO M 153 and shop painted with two coats of basic lead silico chromate paint. All structural steel for a distance of 6 feet, each way from deck joints shall be cleaned and given one coat of the basic lead silico chromate primer and maroon field coat. Both coats to be applied in the shop with spot painting only in the field. Field welding of construction accessories will not be permitted to the bottom flange of beams. Field welding in other areas will be permitted only when approved by the engineer. Anchor bolts shall be set before bolting diaphragms over supports. Layout of stone riprap may be varied in the field to suit ground conditions as directed by the engineer. The contractor shall drive two concrete test piles in a permanent location one at each abutment as directed by the engineer before ordering the remainder of piles. Bearing seat surfaces shall be contracted or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims and placed as detailed. (For Type I Elastomeric Bearings, shims of the dimensions of the top plate shall be provided and placed as detailed). Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 53 Grade 60. The wide flange beams shall conform to the Supplemental Requirements for Notch Toughness Zone 2.



ELEVATION

Note:  
Width between the approach guardrails shall be parallel and equal to width between bridge rails. Shoulder widening shall be required at the approach roadways to the structure.



PLAN

SHEET PILING DATA

Type PZ 27 Gr. 50  
Top Elev. 697.25  
\* Batt. Elev. 667.25  
\* Depth 30'  
Length 26' from back of existing abut wall.

Contractor to anchor sheeting to existing abut wall. Connection to be approved by Engineer.  
\* Sheeting within the limits of existing footings shall have their tip elevation at top of footings.

STATION 288+80.00  
BUILT 198 BY  
STATE OF ILLINOIS  
F.A. RT. 698 SEC. 101BR-1  
F.A. PROJ. BR-F-698(6)  
LOADING HS 20-44  
STR. No. 005 0142

NAME PLATE  
See Std. 2113

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yds.			93
Floor Drains	Each	6		6
Protective Coat	Sq. Yds.	238		238
Class X Concrete	Cu. Yds.	58.6	50.8	109.4
Structural Steel	L.S.			L.S.
Stud Shear Connectors	Each	1110		1110
Steel Railing Type T-1	Lin. Ft.	125		125
Reinforcement Bars	Lbs.	5780	4130	9910
Reinf. Bars (Epoxy Coated)	Lbs.	9220		9220
Concrete Piles	Lin. Ft.		392	392
Test Piles Concrete	Each		2	2
Name Plates	Each	1		1
Stone Riprap	Sq. Yds.			320
Neoprene Expansion Joints (2")	Lin. Ft.	39		39
Elastomeric Bearing Assembly Ty. 1	Each			5
Temporary Concrete Barrier	Lin. Ft.	63		63
Temporary Sheet Piling	Sq. Ft.			1560
Temporary Bridge Rail	Lin. Ft.			79

PROFILE GRADE  
(At E Roadway)

WATERWAY INFORMATION

Drainage Area = 4.52 sq. mi. Low Grade Elev. 696.3 @ Sta.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Not. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	50	1349	191 274	693.7	0.30' 0.30'	694.2 694.0
Base	100	1553	199 285	694.0	2.14' 0.80'	696.14 694.8
Overlapping						
Max. Calc.	500	2029	207 285	694.3	2.24 1.36	696.54 695.66

DESIGN STRESSES

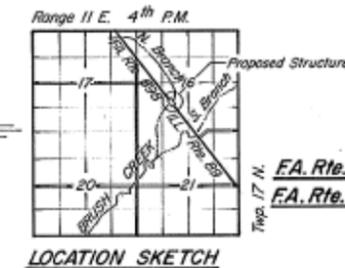
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinf.)  
f<sub>y</sub> = 50,000 psi (Struct.)  
M 222 Unpainted

Epoxy coated reinforcement bars shall be used in the top layer of deck slab.

LOADING HS 20-44

Design Specifications: 1977 AASHTO; 1978, 1979, 1980 and 1981 Interim Specifications.

Allow 25<sup>#</sup>/sq. ft. for future wearing surface.



LOCATION SKETCH

GENERAL PLAN  
F.A. Rte. 698 Over North Branch Brush Cr.  
F.A. Rte. 698 ILL. 89 SECTION 101BR-1  
BUREAU COUNTY  
Sta. 288+80.00

DESIGNED: Robert T. Bono  
CHECKED: J. L. H.  
DRAWN: R.P.S.  
CHECKED: R.T.B. J.L.H.  
EXAMINED: James J. Rayburn  
PASSED: [Signature]  
APPROVED: [Signature]

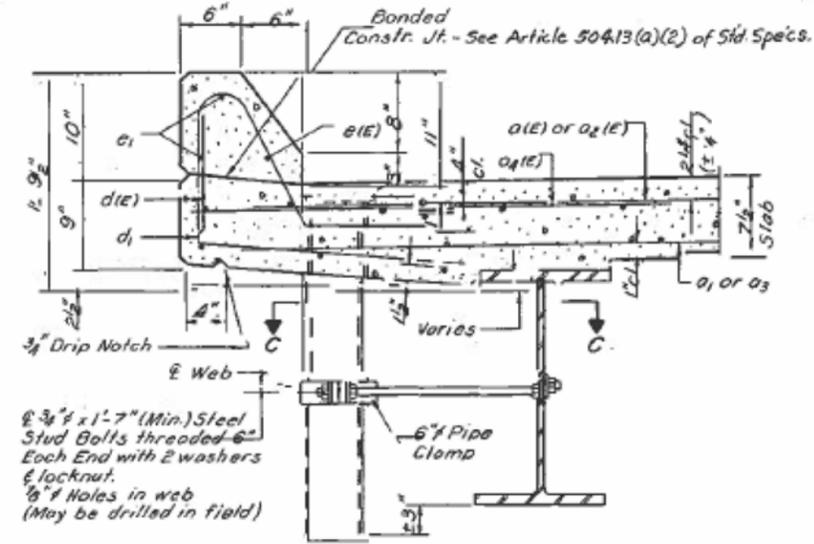
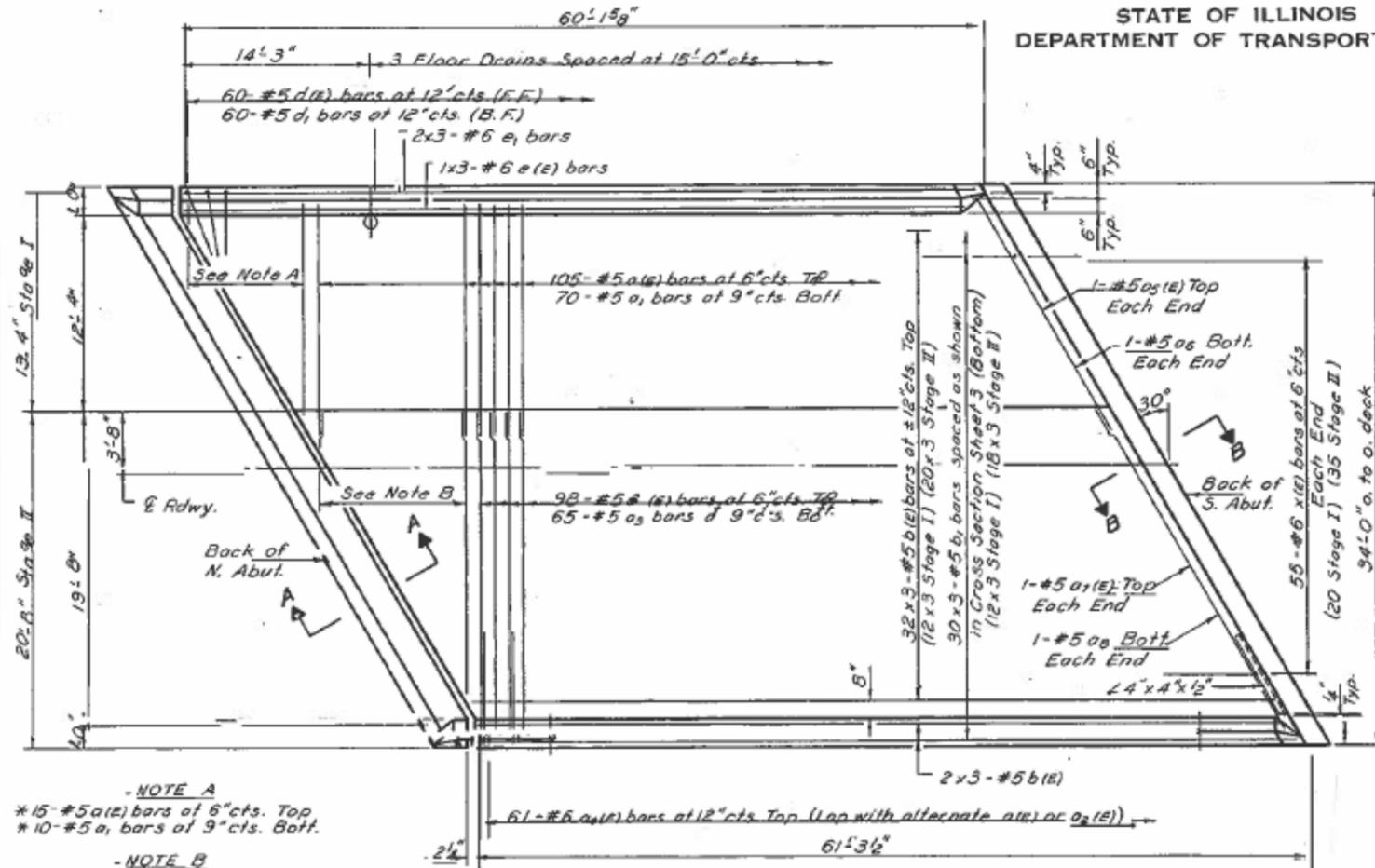
FOR INFORMATION ONLY

FILE NAME =	USER NAME = woodyerp	DESIGNED - JW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE DETAILS FOR INFORMATION ONLY	F.A.P. RTE. 698	SECTION (101BR-1)BP	COUNTY BUREAU	TOTAL SHEETS 13	SHEET NO. 9
MODEL NAMES	PLOT SCALE = 100.0000' / in.	CHECKED - RW	REVISED -			SHEET 1 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 66J46		ILLINOIS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	TITLE	SHEET NO.
10/18/82	BURRILL	SL	ZO	4

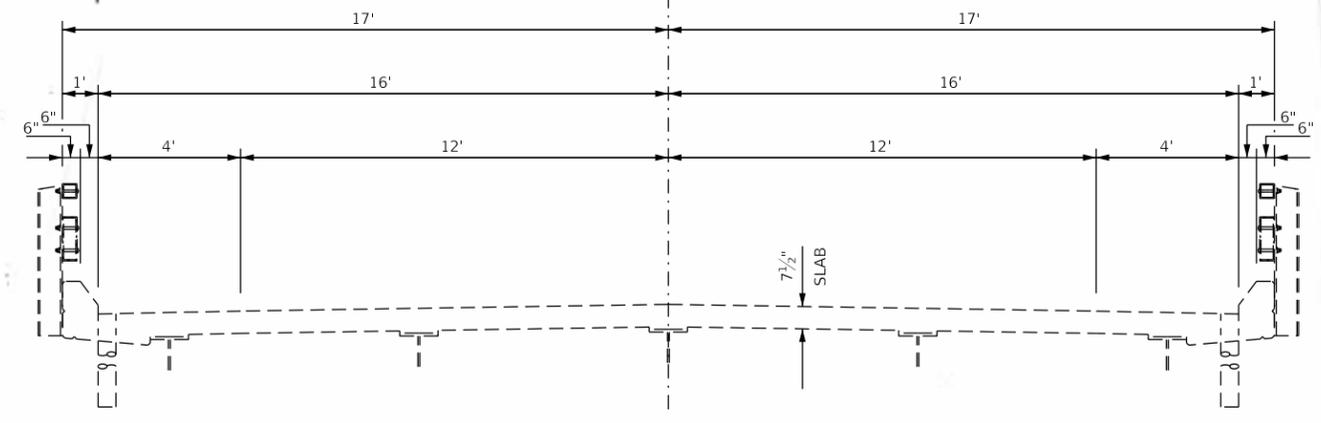
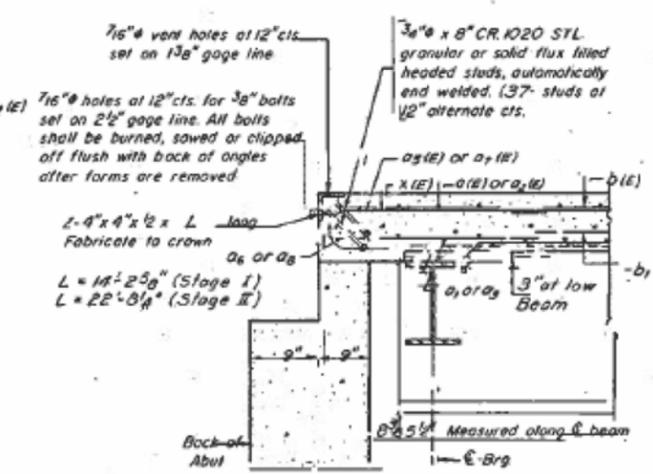
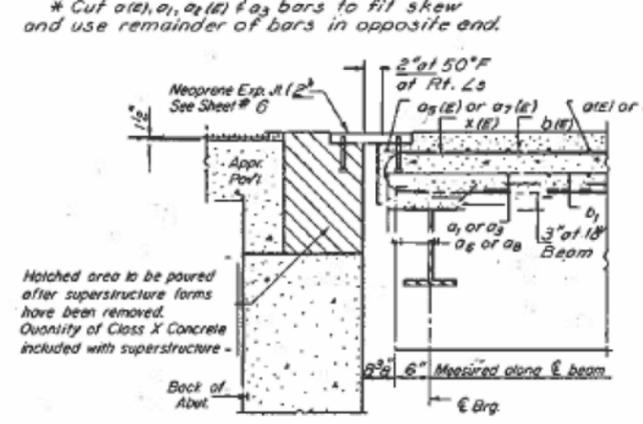
11 SHEETS



**- NOTE A**  
\* 15-#5 a1(e) bars of 6" cts. Top  
\* 10-#5 a, bars of 9" cts. Bott.

**- NOTE B**  
\* 22-#5 a2(e) bars of 6" cts. Top  
\* 15-#5 a3 bars of 9" cts. Bott.

\* Cut a1(e), a1, a2(e) & a3 bars to fit skew and use remainder of bars in opposite end.



**CROSS SECTION**  
LOOKING SOUTH

DESIGNED *Robert T. Bore*  
CHECKED *T. A. H.*  
DRAWN *Paul Summer*  
CHECKED *R.T.B. T.A.H.*

EXAMINED *James H. Reynolds*  
PASSED *Carl E. Thompson*  
APPROVED \_\_\_\_\_

March 16 1982

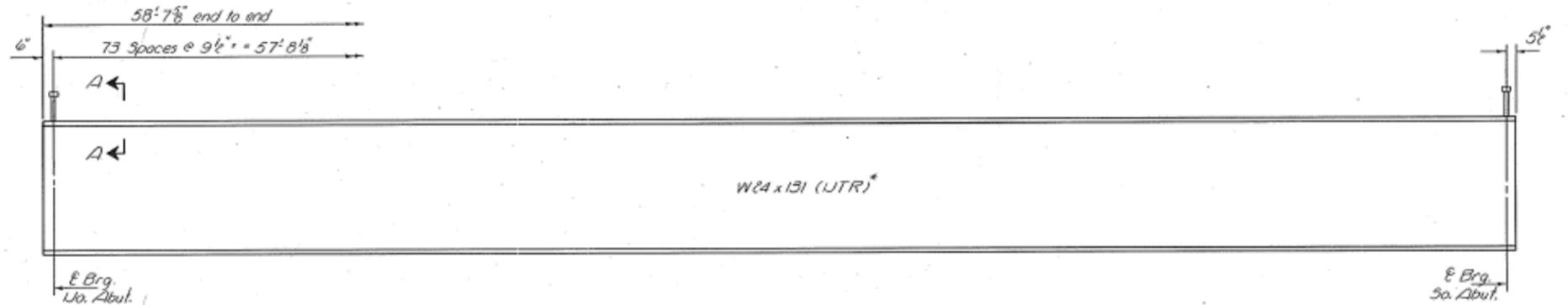
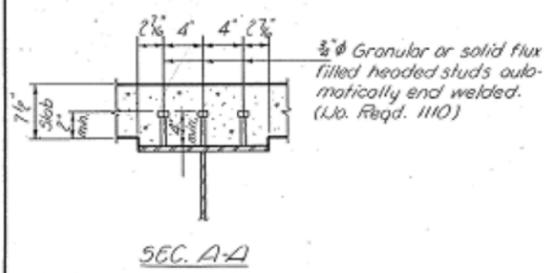
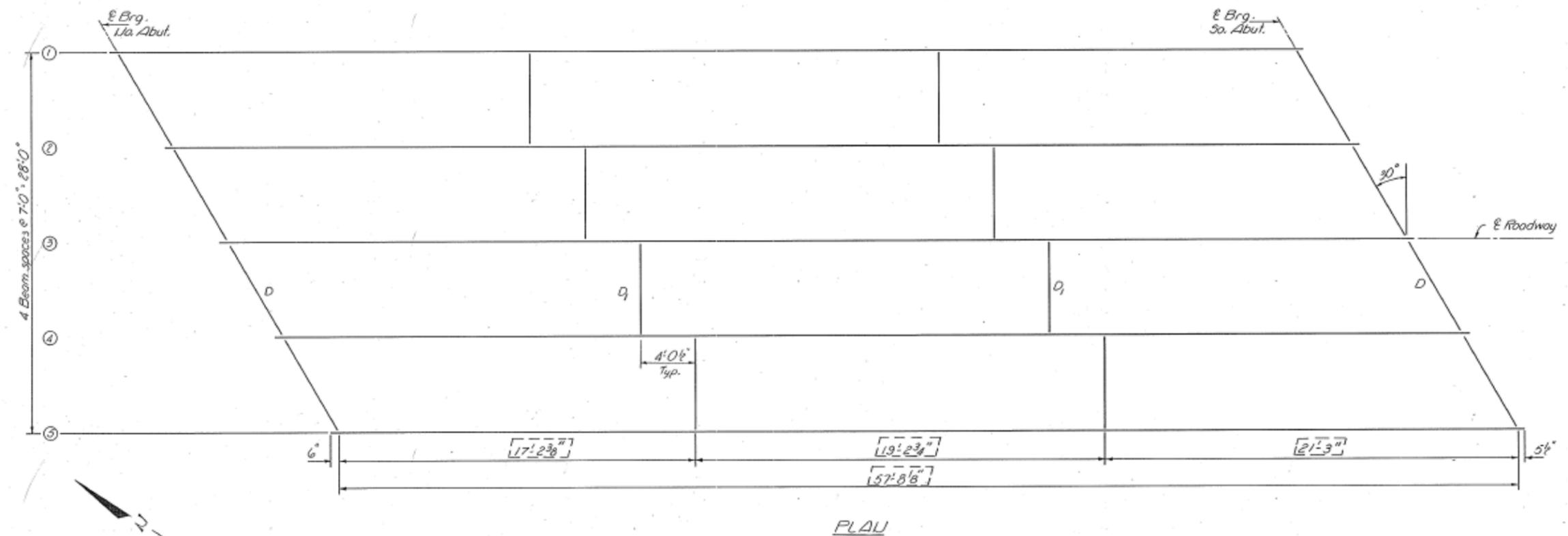
**SUPERSTRUCTURE**  
**E.A. RT. 698 SEC. 101BR-1**  
**BUREAU COUNTY,**  
**STA. 288+80.00**

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = woodyrjp	DESIGNED - JW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE DETAILS FOR INFORMATION ONLY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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SMODELNAMES	PLOT DATE = 7/26/2018	CHECKED - RW	REVISED -			CONTRACT NO. 66J46					
		DATE - 05/22/2018	REVISED -			ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.	SHEET NO.
698	101BR-1	Bureau	310	23A	11
SHEET NO. 7A					



DESIGNED *R. B. T. B. B. B.*  
CHECKED *T. A. H.*  
DRAWN *J. D.*  
CHECKED *R. B. T. A. H.*

EXAMINED *James J. Keiburn*  
PASSED *Carl E. Thompson*  
APPROVED \_\_\_\_\_

March 16, 1982

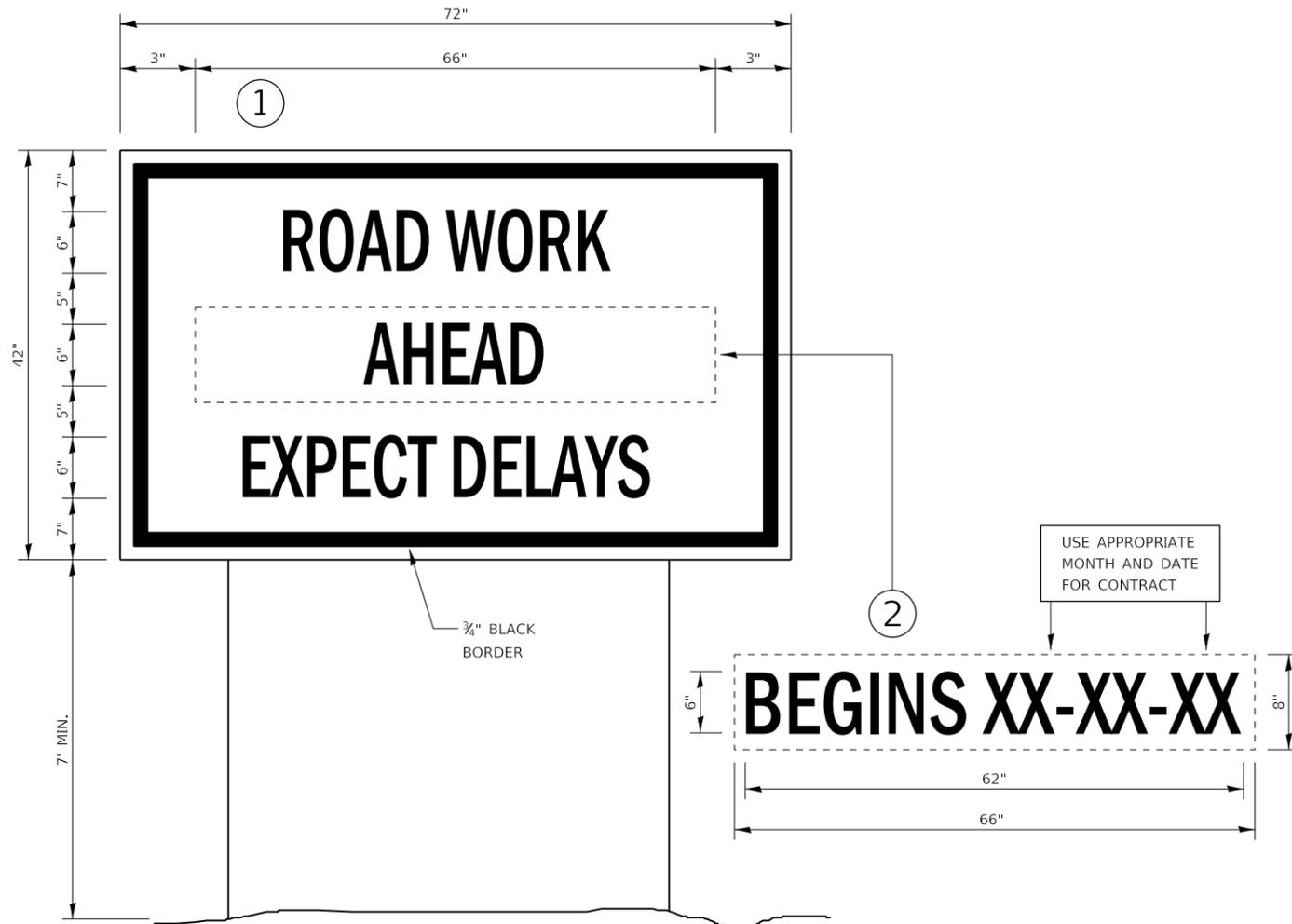
\* LTR designates Latch Toughness Requirement.

AS REVISED  
STRUCTURAL STEEL  
F.A. R.T. 698 SEC. 101 BR-1  
BUREAU COUNTY  
STA. 288+80.00

FOR INFORMATION ONLY

FILE NAME =	USER NAME = woodyerjp	DESIGNED - JW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE DETAILS FOR INFORMATION ONLY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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SMODELNAME	PLOT DATE = 7/26/2018	CHECKED - RW	REVISED -			CONTRACT NO. 66J46					
	DATE - 05/16/2018	REVISOR -	REVISED -			ILLINOIS FED. AID PROJECT					

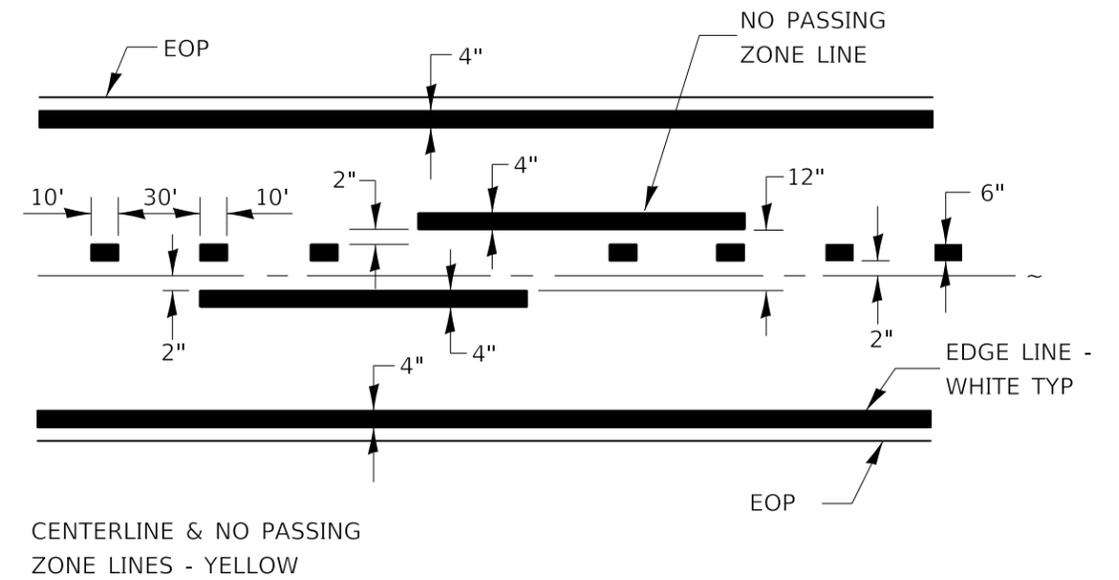




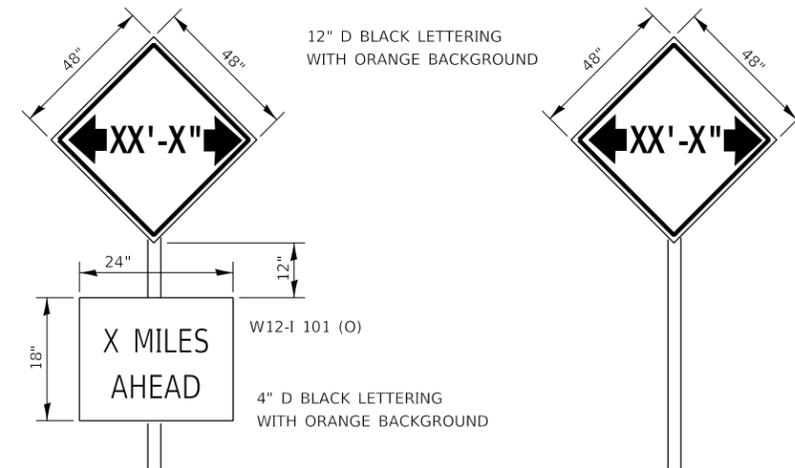
**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



**PAVEMENT MARKING**



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

**WIDTH RESTRICTION SIGNING DETAILS**

FILE NAME =	USER NAME = woodyerjp	DESIGNED - JW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cc:\pw_work\pwidot\woodyerjp\d0561838\66J46-cover.dgn	PLOT SCALE = 100.0000' / in.	DRAWN - JW	REVISED -			698	(101BR-1)BP	BUREAU	13	13	
\$MODELNAME\$	PLOT DATE = 7/26/2018	CHECKED - RW	REVISED -			CONTRACT NO. 66J46					
		DATE - 05/15/2018	REVISED -			ILLINOIS   FED. AID PROJECT					