

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	[NR&N(V)BR]BP	LASALLE	13	1
		ILLINOIS	CONTRACT NO. 66J44	

**INDEX OF SHEETS**

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

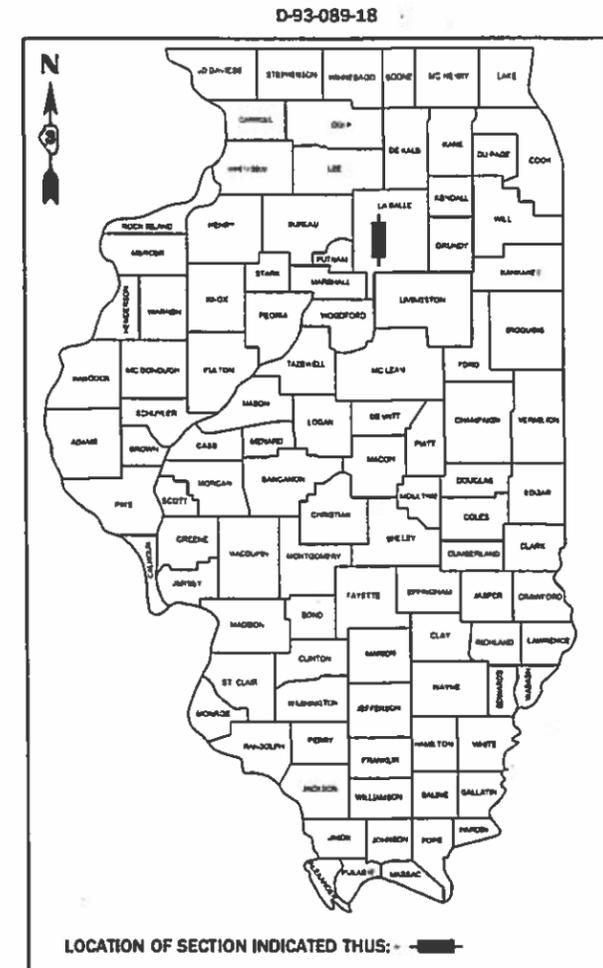
**STANDARDS**

- |           |  |
|-----------|--|
| 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                      |

# PROPOSED HIGHWAY PLANS

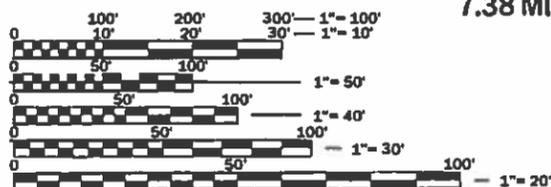
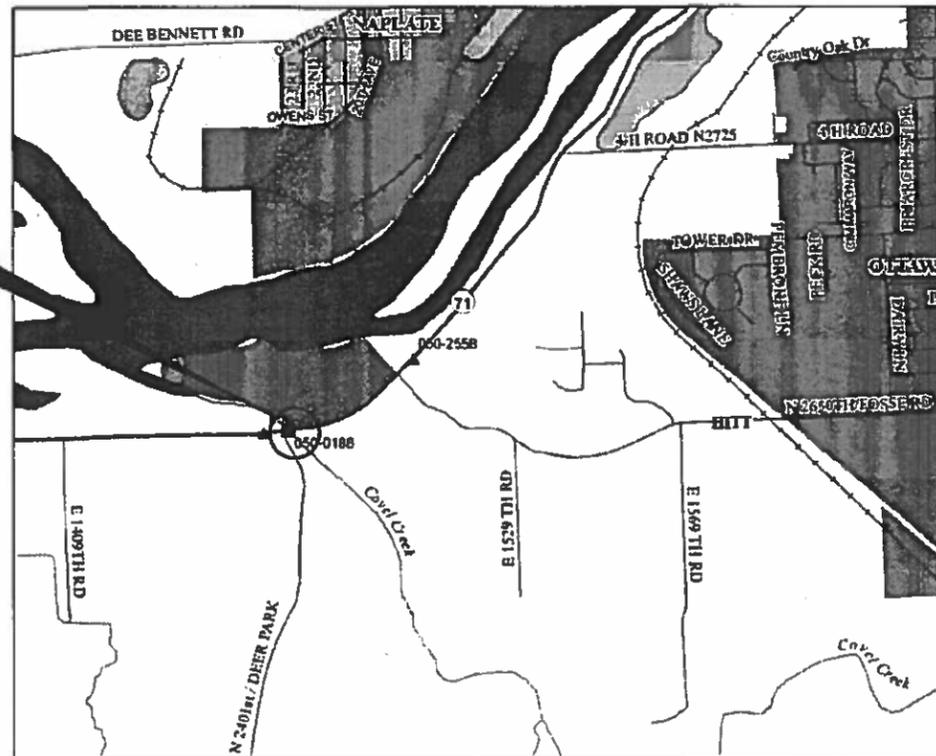
F.A.P. ROUTE 627 (IL 71)  
SECTION [NR&N(V)BR]BP  
PROJECT STP-S5UN(261)  
BRIDGE PAINTING  
LASALLE COUNTY

C-93-094-18



**PROJECT LOCATION**

STRUCTURE NO. 050-0188  
CARRYING F.A.P. 627 (IL 71)  
OVER COVEL CREEK  
7.38 MILES EAST OF IL 178



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. 66J44

GROSS LENGTH = 192 FT. = 0.036 MILE  
NET LENGTH = 192 FT. = 0.036 MILE

**FUNCTIONAL CLASSIFICATION**

RURAL - MINOR ARTERIAL  
F.A.P. ROUTE 627 (IL 71)  
2017 ADT = 1900  
P.V. 91.8% S.U. 3.5% M.U. 4.7%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 12-11-2018  
[Signature]  
REGIONAL ENGINEER

Feb 1 2019  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 2019  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
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. STRUCTURE NO. 050-0188 SHALL BE DESIGNATED AS "LOCATION 1".
3. THE EXISTING STRUCTURAL STEEL CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THE PROJECT.
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 EACH STRUCTURE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS AS SHOWN ON PLAN DETAILS. (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, CROSS/LATERAL FRAMING WHEN PRESENT, BEARING ASSEMBLIES AND ALL OTHER ASSOCIATED STEEL COMPONENTS SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".
  - b) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIAPHRAGMS, CROSS/LATERAL FRAMING WHEN PRESENT, BEARING ASSEMBLIES AND ALL OTHER ASSOCIATED STEEL COMPONENTS SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1 - OZ/E/U".
    - 1) THE FINAL FINISH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL NO. 5B 7/1".
    - 2) FINISH COAT FOR EXTERIOR FACE, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 1/2".
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 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 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: *[Signature]*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 12-11-18

EXAMINED BY: *[Signature]*  
DISTRICT CONSTRUCTION ENGINEER

*[Signature]*  
DISTRICT MATERIALS ENGINEER

*[Signature]*  
DISTRICT OPERATIONS ENGINEER

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	PLOT SCALE = 100.0000' / in.	DATE - 05/16/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

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

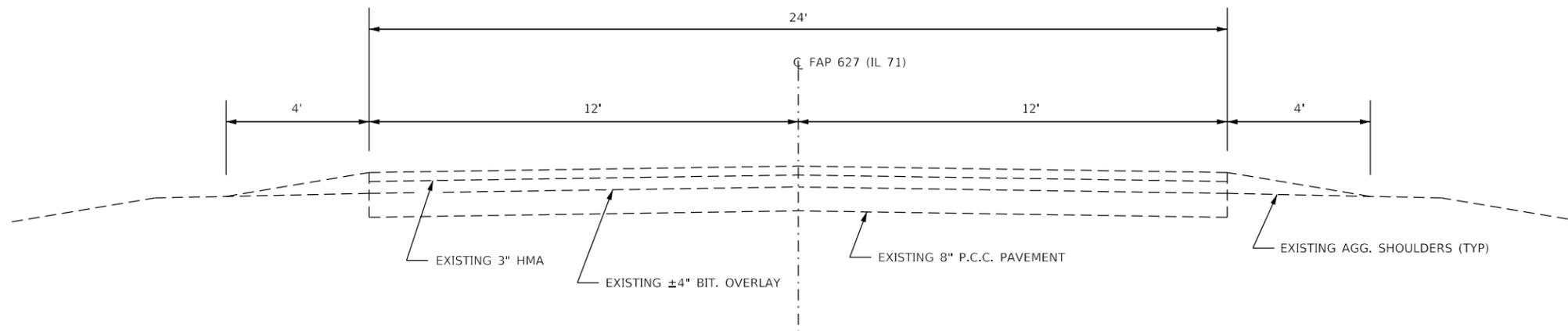
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	[NR&N(V)BR]BP	LASALLE	13	2
CONTRACT NO. 66J44				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE PAINTING
				80% FED 20% STATE
				BRIDGE
				0047
				S.N. 050-0188
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	275	275
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275
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	74	74
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	6	6
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1

\* SPECIALTY ITEM

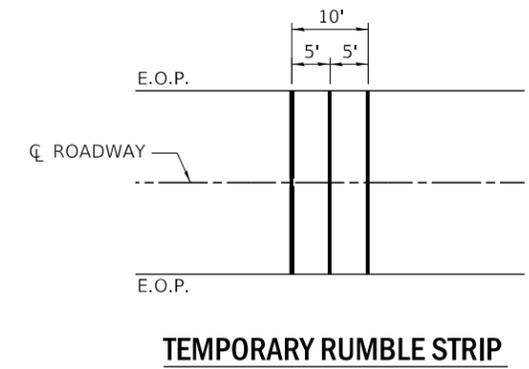
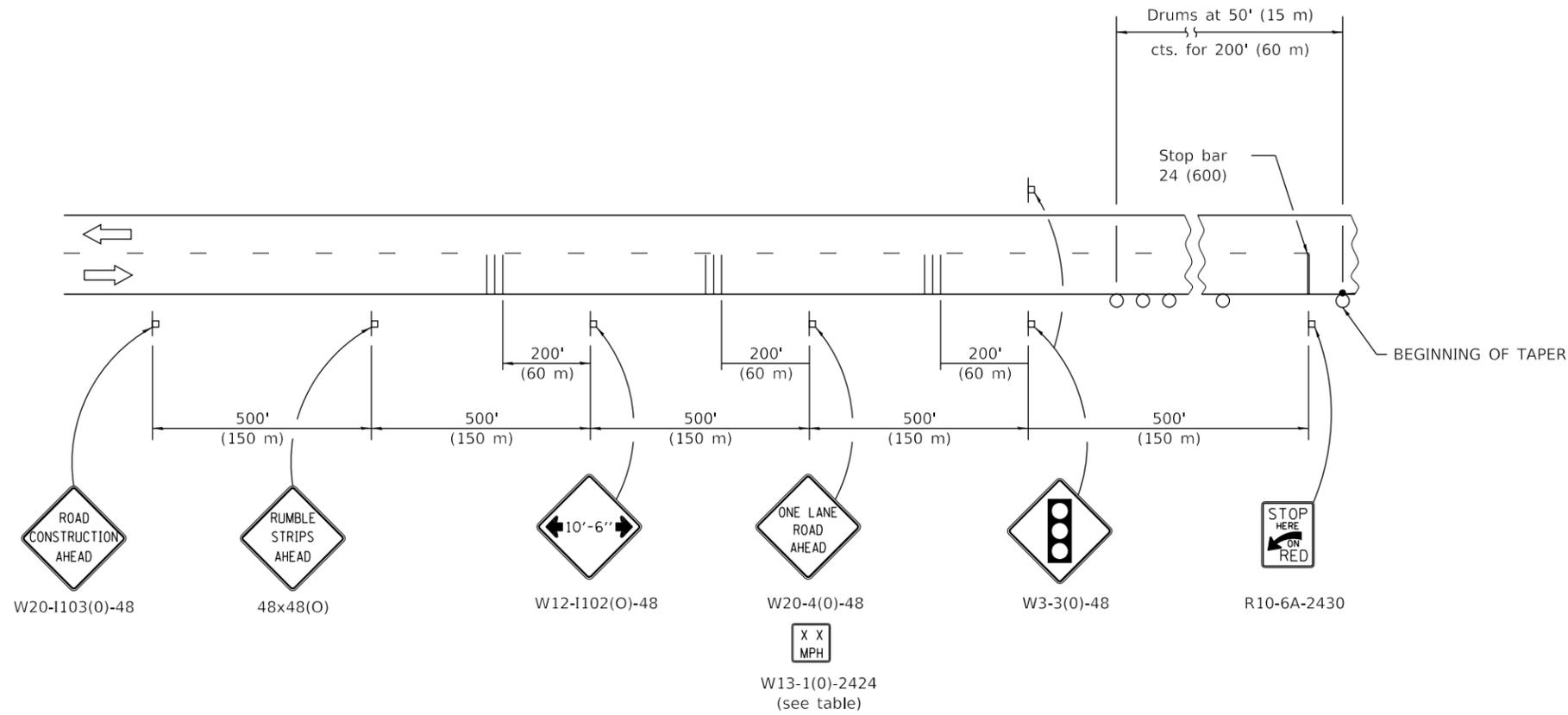
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	PLOT DATE = 10/24/2018	DATE - 05/22/2018	REVISIONS -		SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE PAINTING 80% FED 20% STATE BRIDGE 0047 S.N. 050-0188
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42



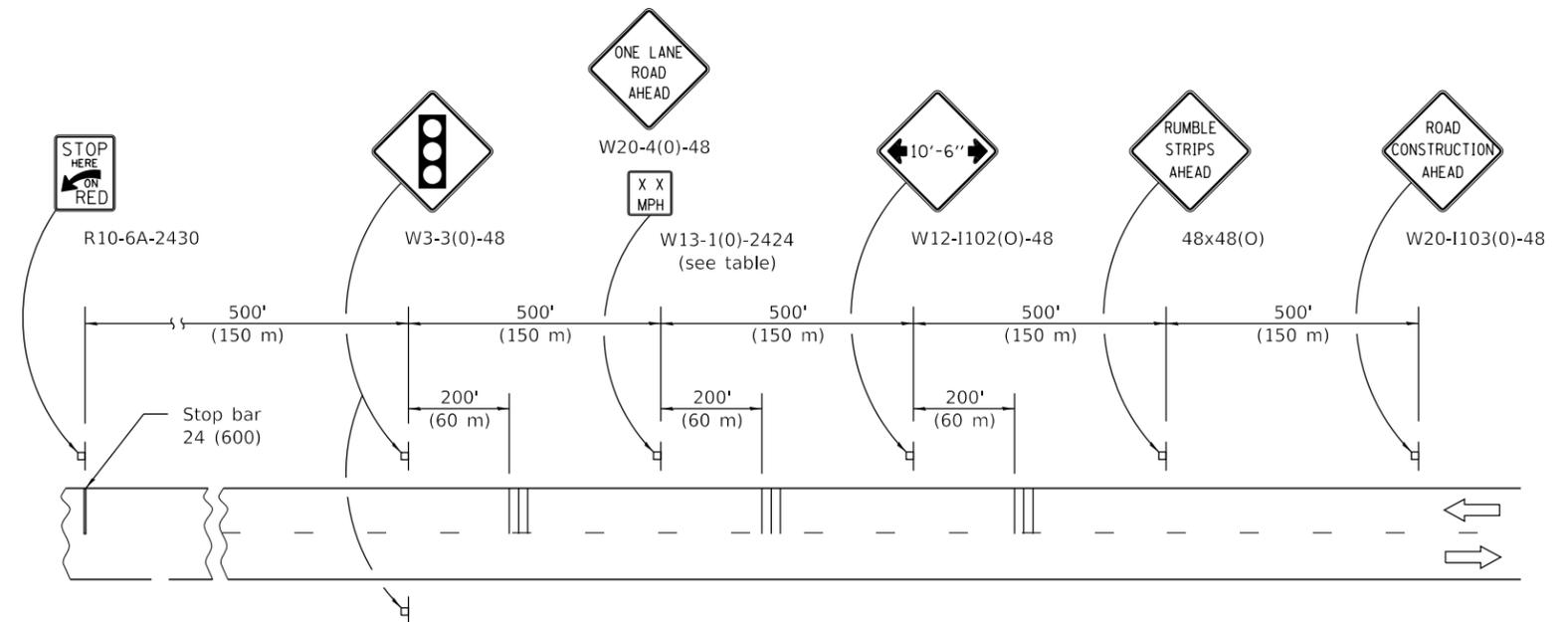
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Default		CHECKED - RW	REVISED -		CONTRACT NO. 66J44							
	PLOT DATE = 10/24/2018	DATE - 05/17/2018	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	



**SYMBOLS**

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



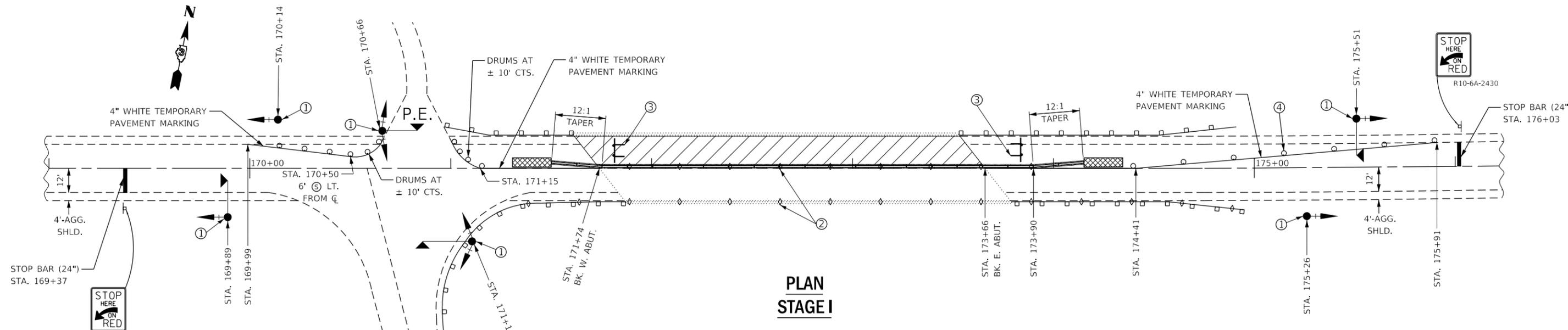
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	PLOT DATE = 10/24/2018	DATE - 05/17/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADVANCE SIGNING FOR TRAFFIC CONTROL  
AND PROTECTION, STANDARD 701321**

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

F.A.P. RTE. 627	SECTION [NR&N(V)BR]BP	COUNTY LASALLE	TOTAL SHEETS 13	SHEET NO. 6
CONTRACT NO. 66J44				
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.

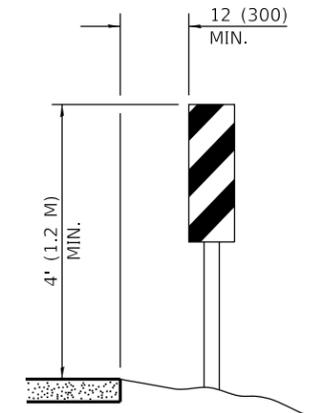
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

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.

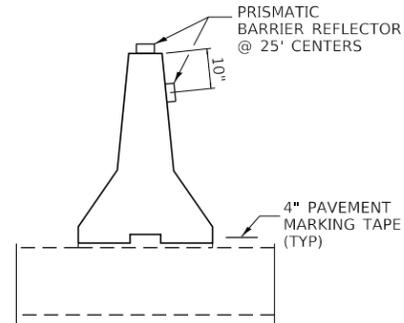
THE ARROW ON THE BACKSIDE OF THE DIRECTIONAL INDICATOR BARRICADES MUST BE COVERED OR REMOVED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL STANDARD.



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

**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



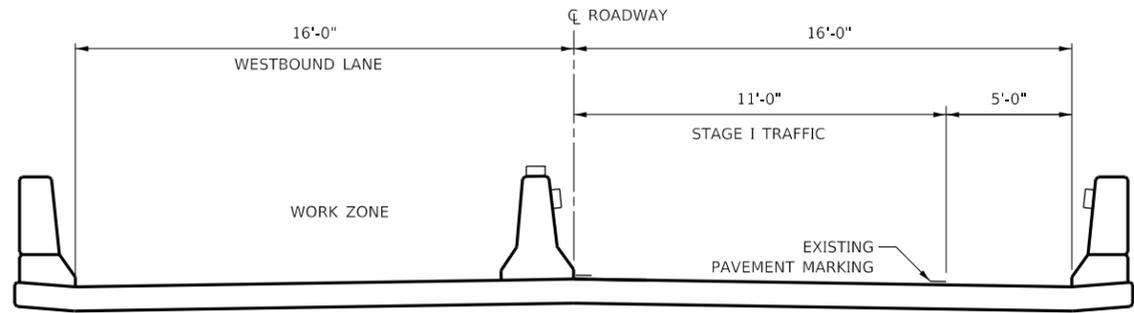
**TEMPORARY CONCRETE BARRIER**

- ① THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24 (610) AND 6' (1.8 M) FROM EDGE OF SHOULDER.
- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- ③ TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ④ TRAFFIC CONTROL PROTECTION DRUMS AT 25' CENTERS UNLESS OTHERWISE NOTED

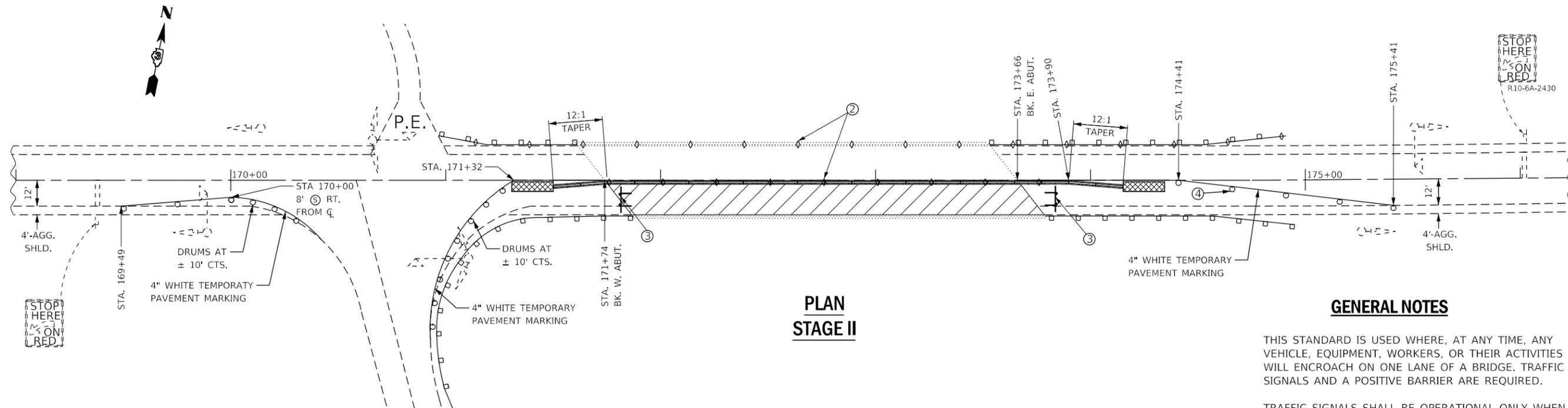
TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

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



**CROSS SECTION STAGE I**  
LOOKING EAST



**PLAN  
STAGE II**

**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.

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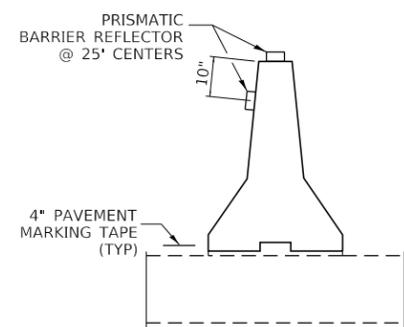
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THE ARROW ON THE BACKSIDE OF THE DIRECTIONAL INDICATOR BARRICADES MUST BE COVERED OR REMOVED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL STANDARD.



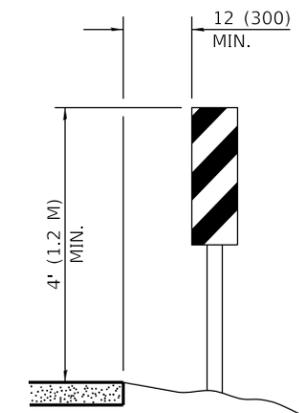
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- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- ③ TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ④ TRAFFIC CONTROL PROTECTION DRUMS AT 25' CENTERS UNLESS OTHERWISE NOTED

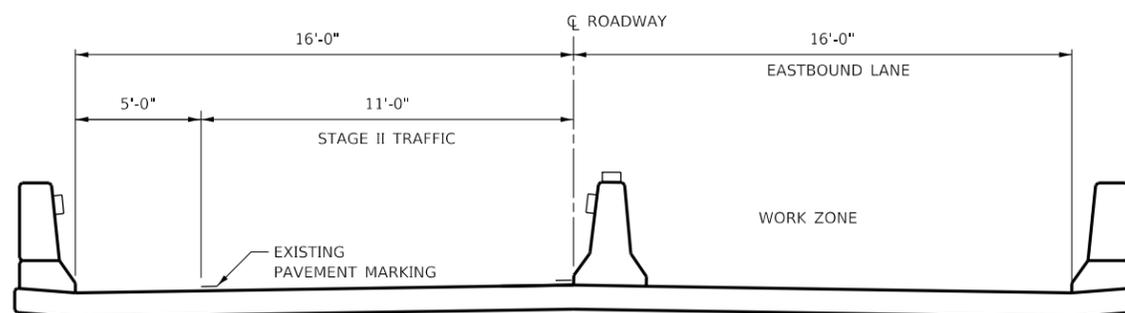
TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

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)



**CROSS SECTION STAGE II**  
LOOKING EAST

**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

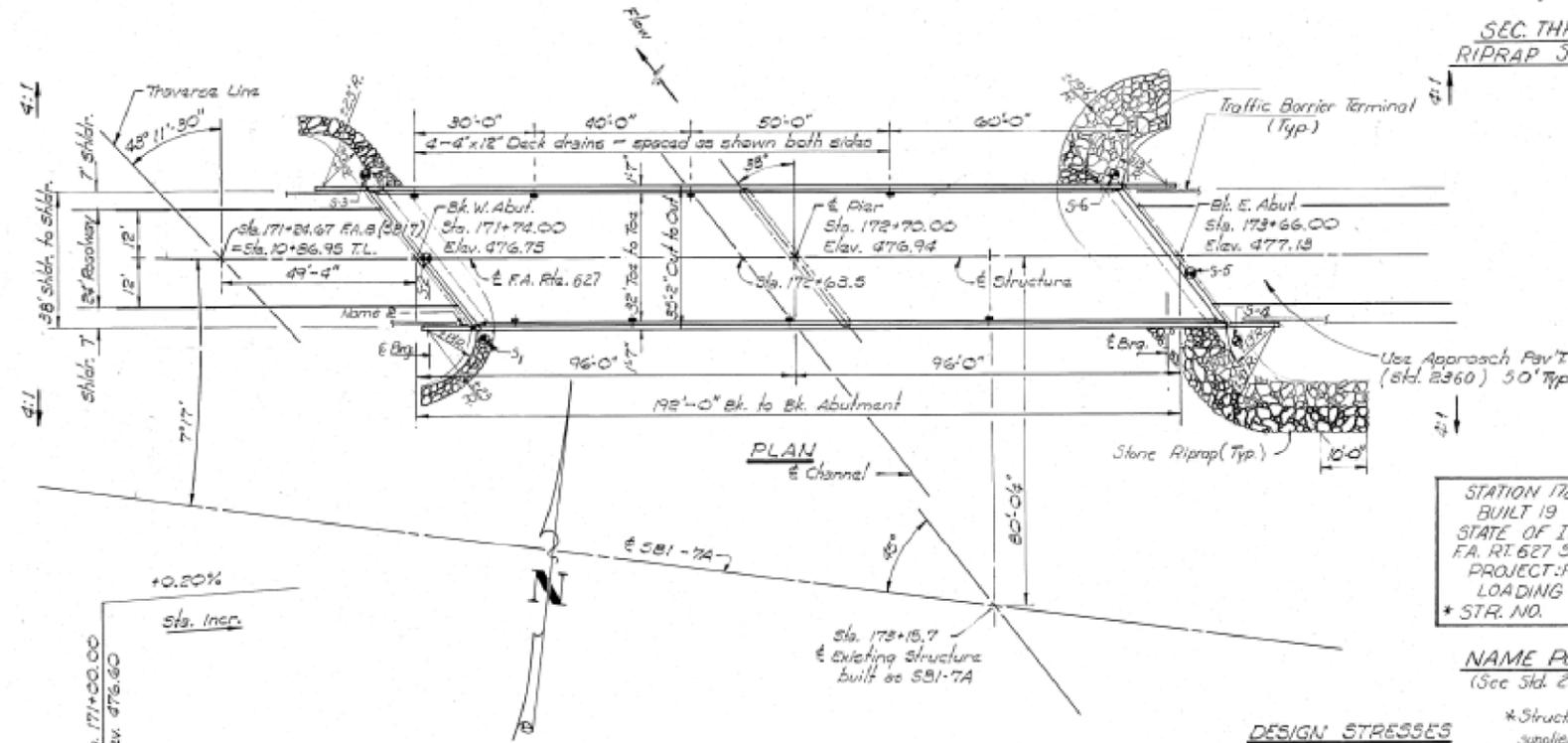
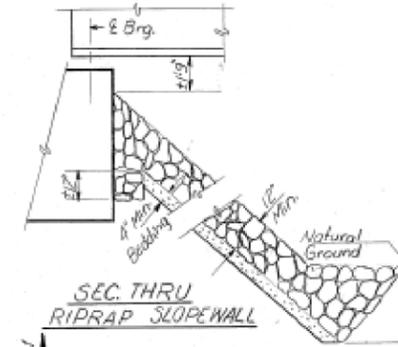
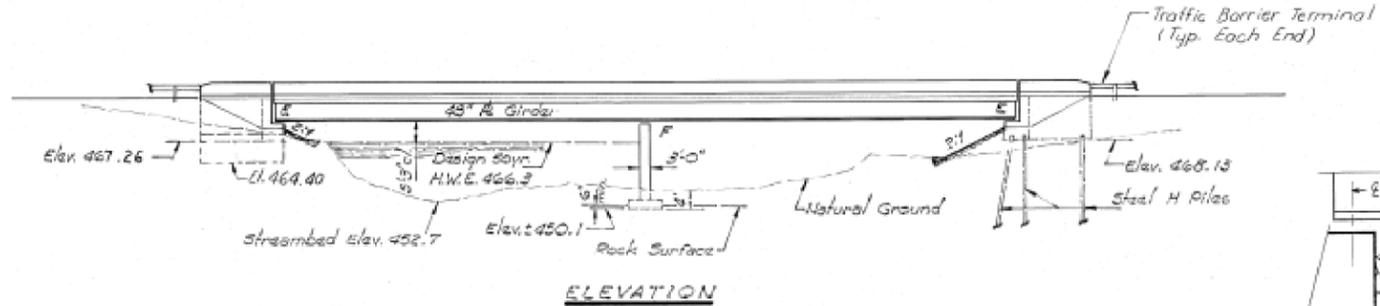
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
627	NR&N(V)BR	LASALLE	29	12
SHEET NO. 1 10 SHEETS				

B.M. #1 Chiseled 'G' on N.W. Corner of N. Hub Pile of existing Bridge 10' L. Existing Sta. 172+57.57 Elev. = 475.94  
Existing Structure: #080-0031 Built as S.B.I. 74, Sec. V of Sta. 173+15 in 1920. The existing two span R.C. Deck girder superstructure on closed abut. and solid concrete pier substructure shall be used for traffic during the construction of the new two span relocated structure, and then removed by the bridge contractor.  
30'-3" Back to back of abutments, 2'-6" out to out.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M53, Grade 60.  
Fasteners shall be high strength bolts. Bolts 3/4", open holes 1 1/8", unless otherwise noted.  
Calculated weight of Structural Steel = 195,010 Lbs.  
The basic lead silica chromate paint system shall be used for shop and field painting of Structural Steel.  
Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. 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 riprap may be varied in the field to suit ground conditions as directed by the Engineer.  
The contractor shall drive one Steel HP8x36 test pile in a permanent location at the east abutment as directed by the Engineer before ordering the remainder of piles.  
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.  
Bearing seat surfaces shall be constructed 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.  
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Match Toughness Zone 2. These Components are the tension flanges, webs and all splice plate material of the steel girders.  
See Proposal for Boring Data.  
A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for Class X Concrete for parapets.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Structures	Each			1
Rock Excavation for Structures	Cu. Yd.		32	32
Class X Concrete	Cu. Yd.	202.2	212.7	414.9
Reinforcement Bars	Pound	22030	14310	36340
Reinforcement Bars (Epoxy Coated)	Pound	31600		31600
Structural Steel	Lump Sum	1		1
Protective Coat	Sq. Yd.	830	21	851
Stone Riprap	Sq. Yd.		412	412
Cofferdam (Pier)	Each		1	1
Cofferdam Excavation	Cu. Yd.		70	70
Stud Shear Connectors	Each	1920		1920
Preformed Joint Seal (4")	Lin. Ft.	88		88
Steel Piles (HP8x36)	Lin. Ft.		140	140
Test Pile Steel (HP8x36)	Each		1	1
Name Plates	Each	1		1
Floor Drains	Each	8		8
Elastomeric Bearing Assembly Type I	Each	10		10
Structure Excavation	Cu. Yd.		140	140

STATION 172+70.00  
BUILT 19 BY  
STATE OF ILLINOIS  
F.A. RT. 627 SEC. N(V)-BR  
PROJECT: F627(1)  
LOADING HS20  
\* STR. NO.

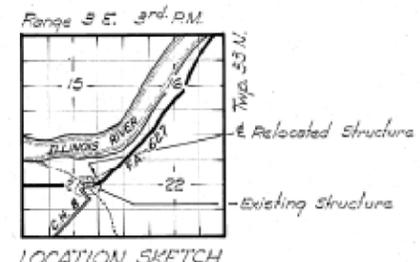
NAME PLATE  
(See Std. 2113)

DESIGN STRESSES

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (Structural)  
Epoxy coated reinforcement bars shall be used in the top layer of the deck.

LOADING HS 20-44

Allow 25"/sq. ft. future wearing surface.  
Design Specification: 1977 AASHTO and 1978 Interim Specifications.



PROPOSED PROFILE GRADE  
(along E Roadway)

DESIGNED	DAU KRULL
CHECKED	Rick Brunette
DRAWN	R. Doty
CHECKED	R.A.B.

December 5 1977  
EXAMINED  
DASSER  
APPROVED

WATERWAY INFORMATION

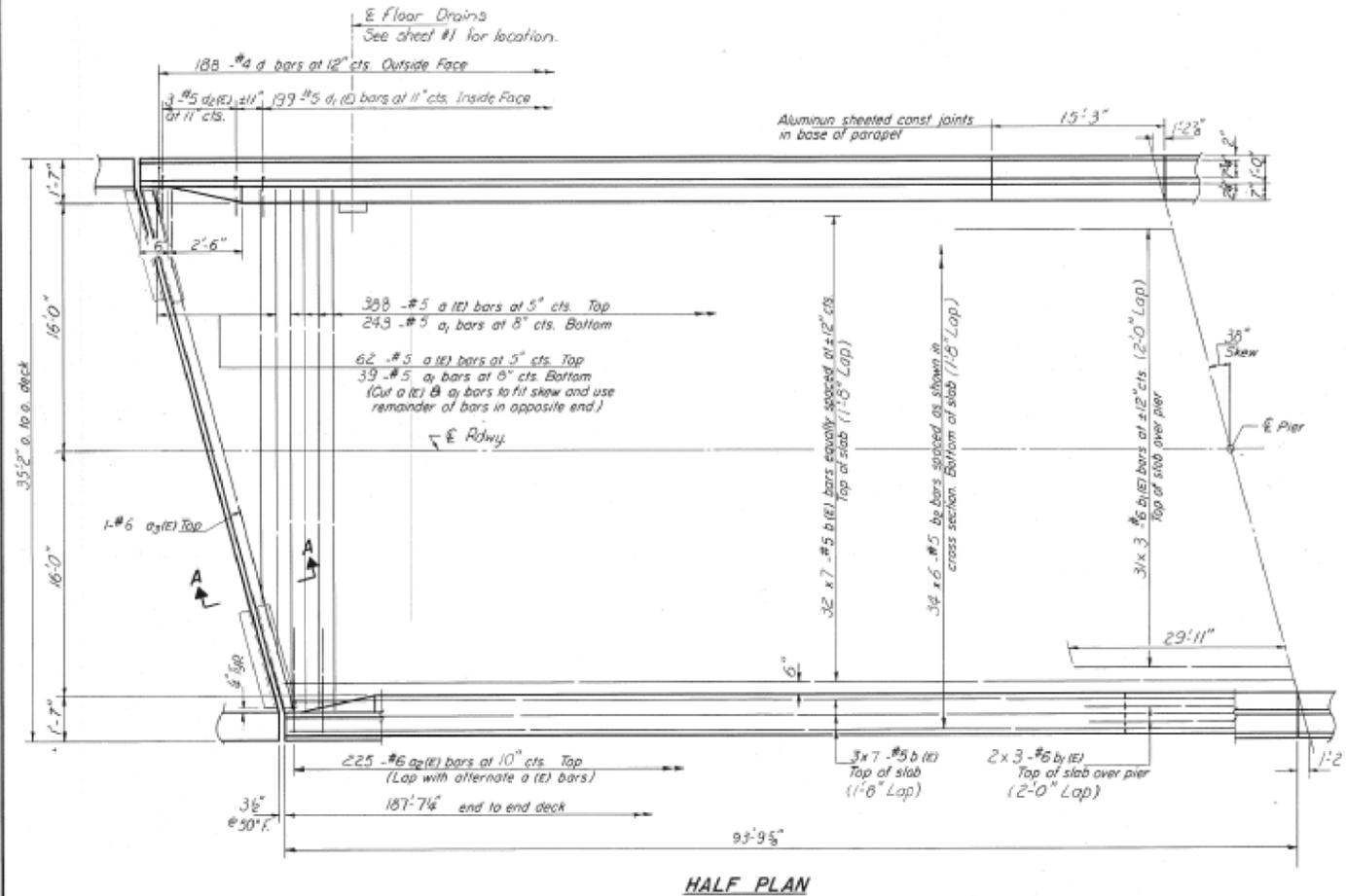
Drainage Area	=	71.7 sq. mi.
Design Discharge (50 yr.)	=	7138 c.f.s.
Existing Opening	=	723 sq. ft.
Required Opening	=	1094 sq. ft.
Proposed Opening	=	1094 sq. ft.
Created Head for Design Flood	=	0.04'
100 yr Discharge	=	2164 c.f.s.
Created Head for 100yr. Flood	=	0.06'
H.W. Elev. (50yr)	=	466.30
H.W. Elev. (100yr)	=	467.10



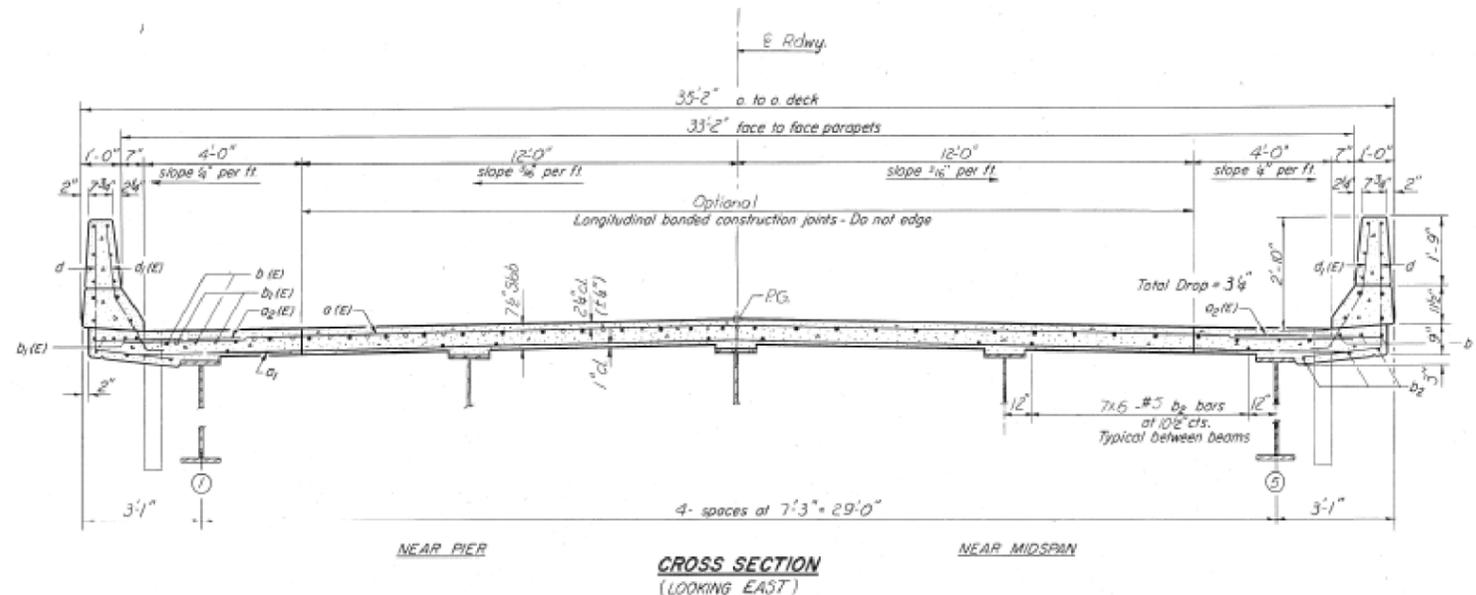
FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4
FA 627	(V)BR	LASALLE	29	15	10 SHEETS



HALF PLAN



CROSS SECTION  
(LOOKING EAST)

NOTES:  
See sheet # 5 for superstructure details and Bill of Material.  
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 times of bars with 3 lengths per line.

SUPERSTRUCTURE  
F.A. RT. 627 SEC. N (V)-BR  
LASALLE COUNTY  
STA. 172+70.00

DESIGNED	DAU KRULL
CHECKED	Rick Brunetta
DRAWN	R. Doty
CHECKED	R.A.B.

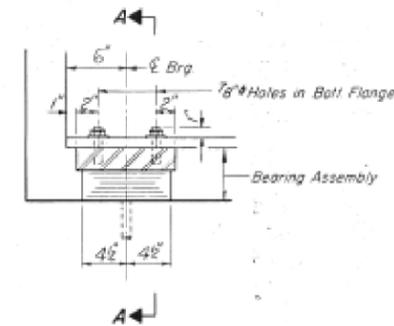
December 5 1979  
EXAMINED  
APPROVED  
DIRECTOR OF HIGHWAYS

S-2-R(30) 4-1-79

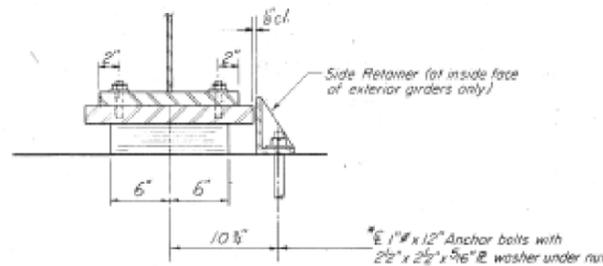
FOR INFORMATION ONLY

FILE NAME =	USER NAME = woodshank1	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.	
Default	DOT Offices\District 3\Projects\036644\CADData\66J44-cover.dgn	DRAWN - JW	REVISED -			627	(NR&N(V)BR)BP	LASALLE	13	10	
	PLOT SCALE = 100,0000 / 1in.	CHECKED - RW	REVISED -			CONTRACT NO. 66J44					
	PLOT DATE = 10/24/2018	DATE - 05/17/2018	REVISED -			SCALE:	SHEET 2 OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

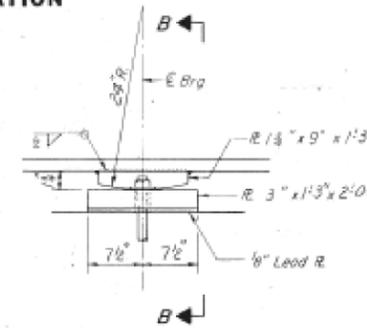




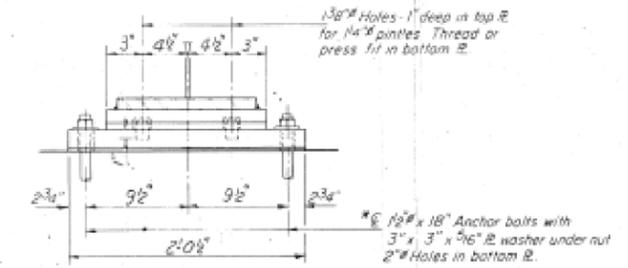
SECTION AT ABUT.



SECTION A-A



ELEVATION AT PIER

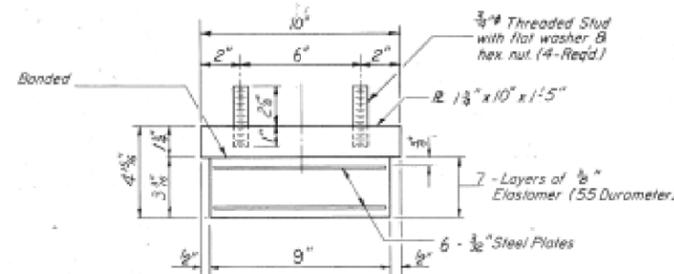


SECTION B-B

FIXED BEARING

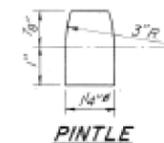
TYPE I ELASTOMERIC EXP. BRG.

\*Note: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.



BEARING ASSEMBLY

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



PINTLE

\*\*TOP OF WEB ELEVATIONS  
(Before any deflection)

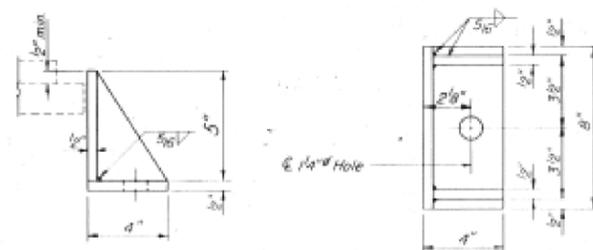
Location	E Brg. W. Abut.	Splice #1	E Brg. Pier	Splice #2	E Brg. E. Abut.
Girder #1	475.76	475.67	475.88	475.97	476.13
Girder #2	475.90	476.00	476.01	476.10	476.27
Girder #3	476.03	476.13	476.14	476.23	476.40
Girder #4	475.92	476.03	476.04	476.13	476.30
Girder #5	475.81	475.91	475.92	476.01	476.18

\*\* For fabrication only.

INTERIOR GIRDER MOMENT TABLE		
	45p1 or 6 Sp2	Pier
$I_g$ (in <sup>4</sup> )	1888.4	3727.2
$I_c$ (in <sup>4</sup> )	4807.2	
$S_g$ (in <sup>3</sup> )	872.7	1440.5
$S_c$ (in <sup>3</sup> )	1198.2	
$E$ (ksi)	320	1.265
$M_g$ (k)	636.1	1927.1
$I_s$ (in <sup>4</sup> )	8.77	16.05
$S_s$ (in <sup>3</sup> )	.345	
$M_{sg}$ (k)	290.7	
$M_g$ (k)	1657.3	1286.8
$M_{imp}$ (k)	381.2	295.9
Total (k)	2329.2	1582.7
$I_{s\ total}$ (in <sup>4</sup> )	23.33	13.18
$I_{s\ total}$ (in <sup>4</sup> )	37.10	29.23
$V_R$ (k)	56.1	

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
$R_g$ (k)	42.7	143.3
$R_c$ (k)	41.7	63.0
$I_{mp}$ (k)	9.6	14.9
$R_{total}$ (k)	94.0	229.2

Moments include Load factors of 1.3 for Dead Loads and 1.3 x 1.67 for Live Loads.  
 $I_s$  and  $S_s$  are the moment of inertia and section modulus of the steel section used in computing  $I_{s\ total}$ .  
 $I_c$  and  $S_c$  are the moment of inertia and section modulus of the composite section used in computing  $I_{s\ total}$ .  
 $V_R$  is the maximum  $\pm$  Impact shear range in span used to determine shear connector spacing.



SIDE RETAINER

DESIGNED	DAU KRULL
CHECKED	Rick Brunette
DRAWN	R. Doty
CHECKED	R.A.B.

December 5, 1977  
EXAMINED  
PASSED  
APPROVED

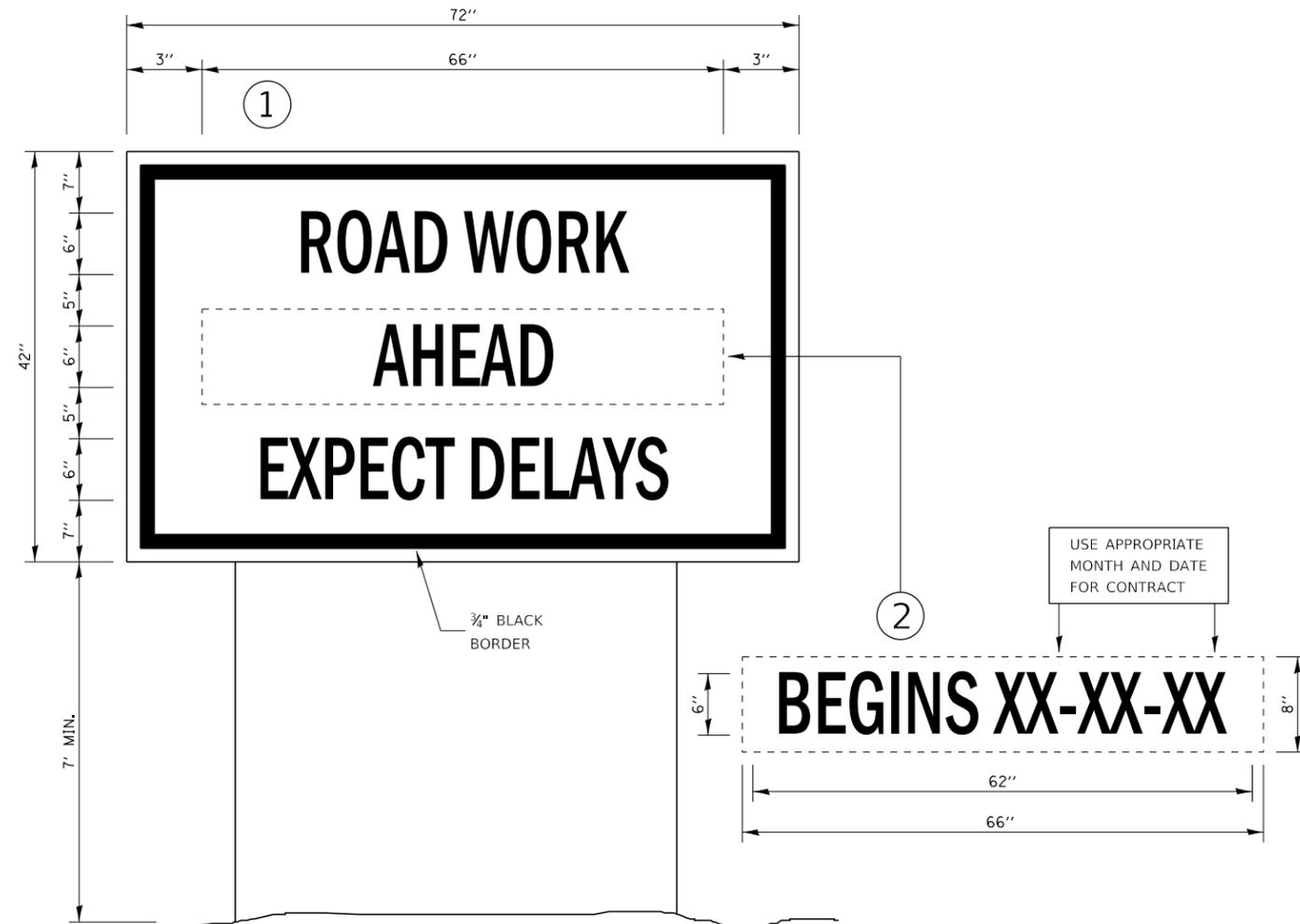
I-2-E1 4-1-79

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	10

BEARING DETAILS  
FA. RT. 627 SEG. NV)BR  
LASALLE COUNTY  
STA. 172+10.00

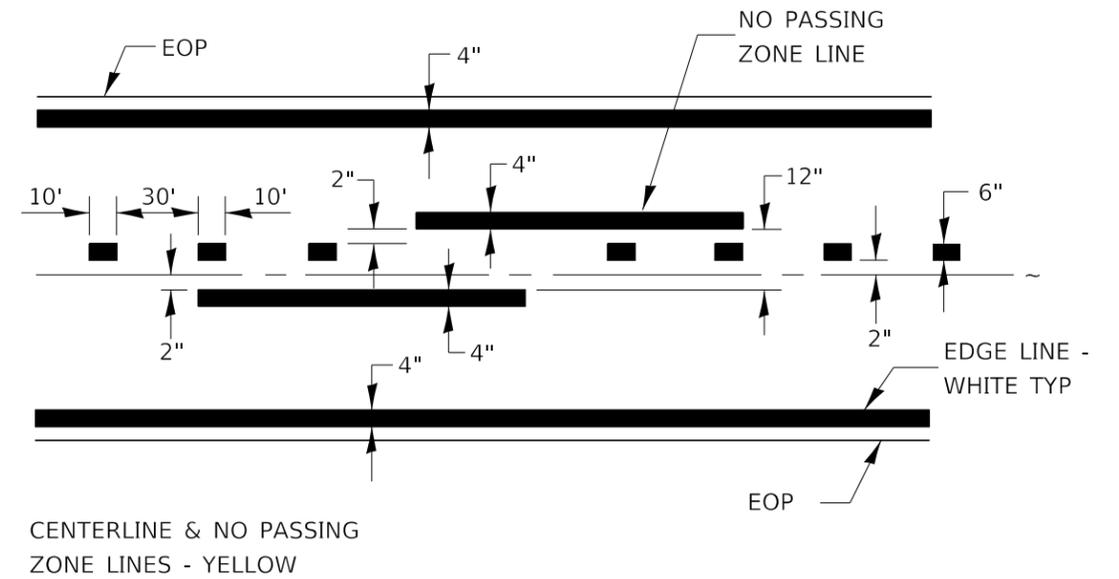
FOR INFORMATION ONLY



**TEMPORARY INFORMATION SIGNING**

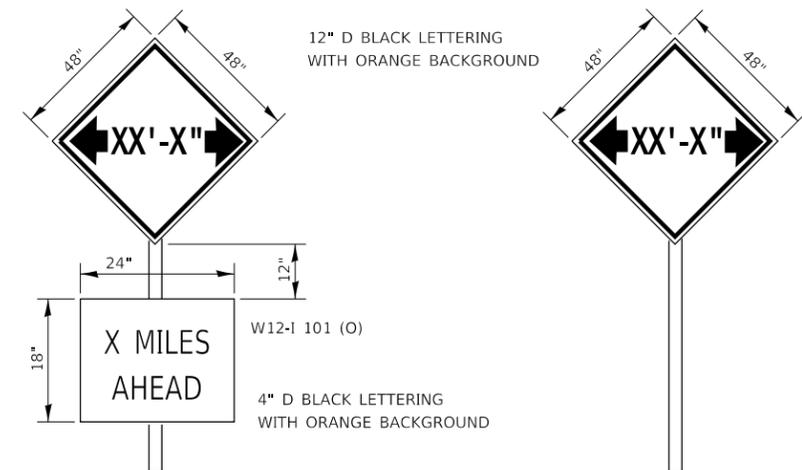
**NOTES:**

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.



CENTERLINE & NO PASSING ZONE LINES - YELLOW

**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 = woodshank1	DESIGNED - JW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\0\IL084EBINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\66J44\CADDData\66J44-cover.dgn		DRAWN - JW	REVISED -		627	[NR&N(V)BR]BP	LASALLE	13	13			
Default	PLOT SCALE = 100.0000' / in.	CHECKED - RW	REVISED -		CONTRACT NO. 66J44							
	PLOT DATE = 10/24/2018	DATE - 05/17/2018	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT