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- 7 - 8. TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
- 9 - 12. EXISTING STRUCTURE PLANS

**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
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS  $\geq$  45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS  $\geq$  45 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER

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

# PROPOSED HIGHWAY PLANS

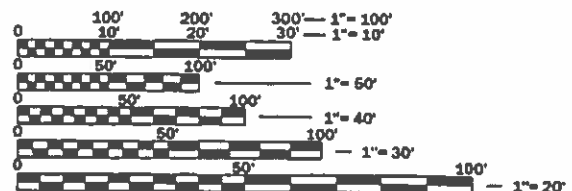
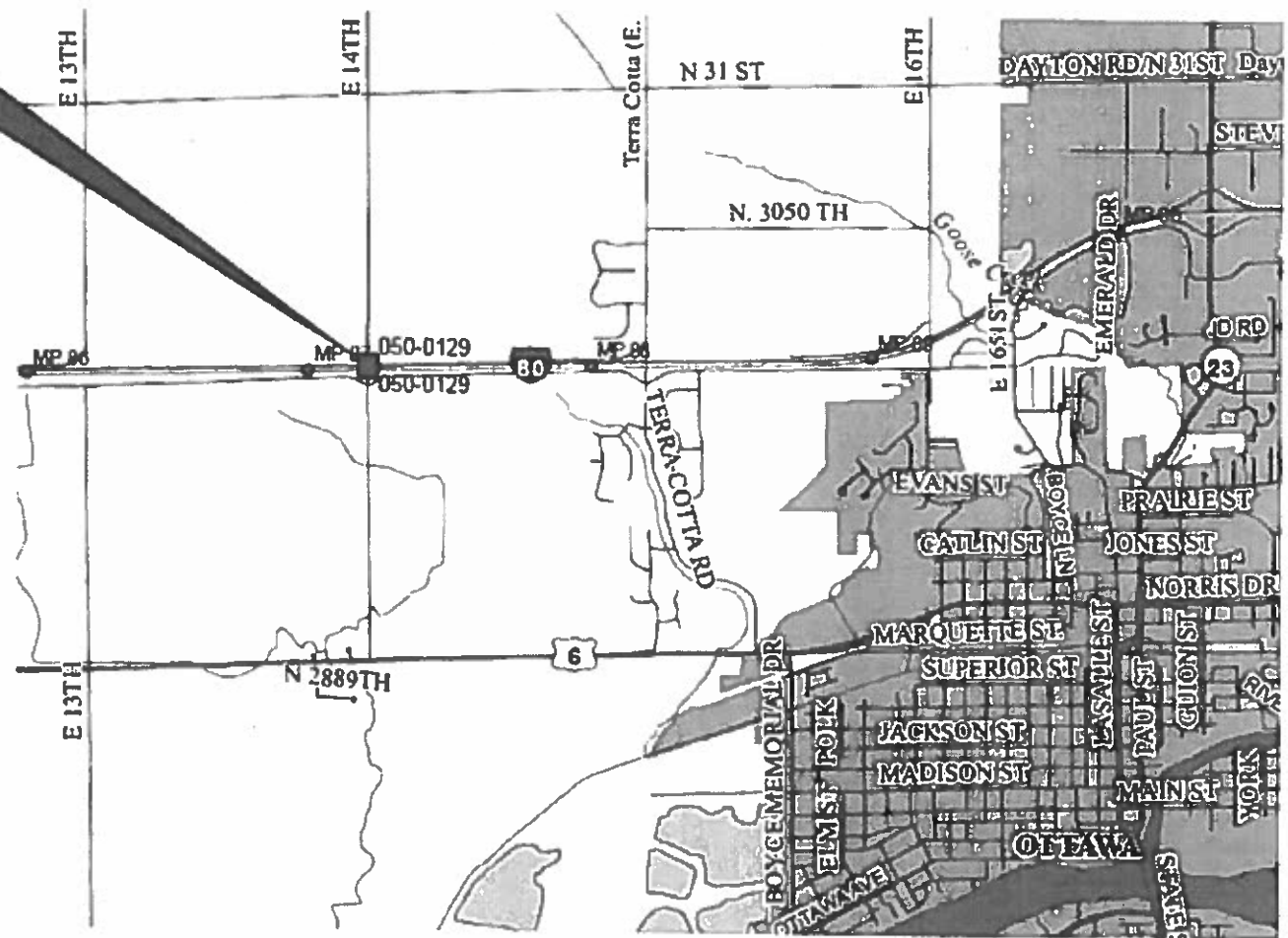
**F.A.I. ROUTE 80 (I-80)  
SECTION (50-3HB-2)BP  
PROJECT NHPP-U010(882)  
BRIDGE PAINTING  
LASALLE COUNTY**

C-93-099-19

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(50-3HB-2)BP	LASALLE	12	1
		CONTRACT NO. 66K14		



**PROJECT LOCATION**  
STRUCTURE NO. 050-0129  
CARRYING E. 14TH RD (TR 244)  
OVER F.A.I. ROUTE 80 (I-80)  
6.0 MILES EAST OF IL ROUTE 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. 66K14

GROSS LENGTH = 204 FT. = 0.0008 MILE  
NET LENGTH = 204 FT. = 0.0008 MILE

**FUNCTIONAL CLASSIFICATION**

RURAL INTERSTATE F.A.I. ROUTE 80 (I-80) 2019 ADT = 30800 P.V. 58.4% S.U. 3.9% M.U. 37.7%	RURAL LOCAL ROAD E. 14TH RD (TR 244) 2016 ADT = 200 P.V. 94.5% S.U. 2.5% M.U. 3.0%
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 17 2020

[Signature]  
REGIONAL ENGINEER

MAY 8 2020

[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

MAY 8 2020

[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

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.

STRUCTURE NO. 050-0129 SHALL BE DESIGNATED AS "LOCATION 1".

THE SSPC-QP1 AND SSPC-QP-2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR EACH 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".)

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), EXPOSED SURFACES OF BEARING ASSEMBLIES AND STEEL HANDRAILS 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), EXPOSED SURFACES OF BEARING ASSEMBLIES AND STEEL HANDRAILS SHALL BE PAINTED PER THE REQUIREMENT 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.

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.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LICENSED 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 LICENSED 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: *Tom Beaulieu*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: *March 17, 2020*

EXAMINED BY: *[Signature]*  
DISTRICT CONSTRUCTION ENGINEER

*[Signature]*  
DISTRICT MATERIALS ENGINEER

*[Signature]*  
DISTRICT OPERATIONS ENGINEER

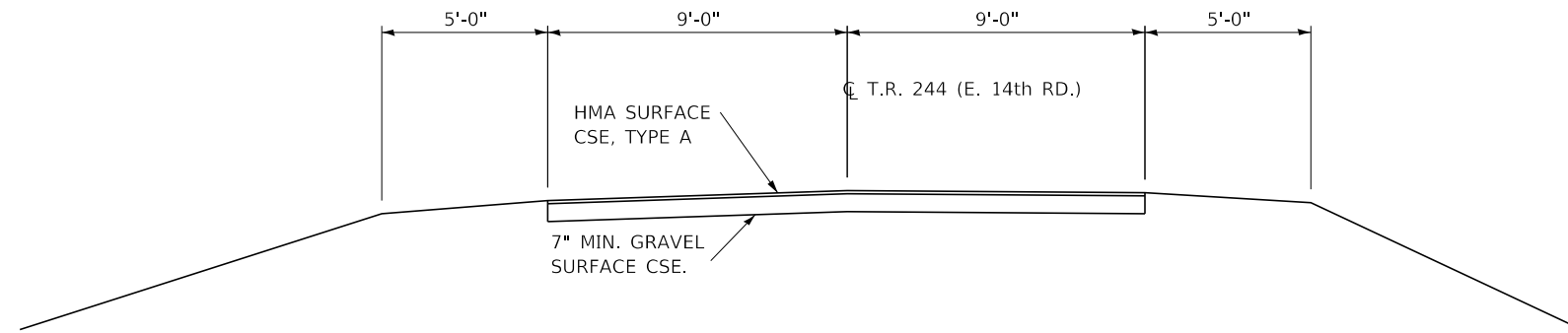
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	PLOT DATE = 2/22/2019					SCALE:	SHEET 1	OF 1	SHEETS	STA.
						ILLINOIS   FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE PAINTING
				90% FED 10% STATE
				BRIDGE
				0047
				S.N. 050-0129
50600200	PAINTING STEEL RAILING	FOOT	408	408
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1200	1200
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	3
Δ 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3340	3340
Δ 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1040	1040
X0325969	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE BOARD	CAL DA	8	8
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOOR	80	80
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1622	1622
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	8	8

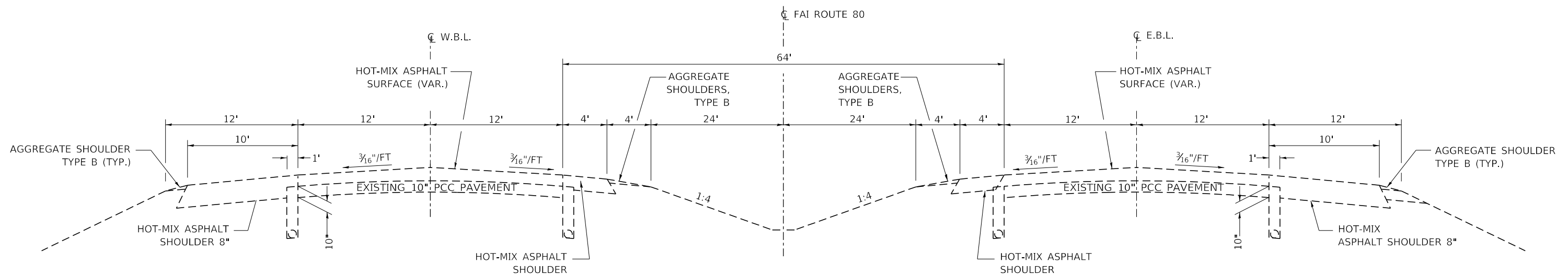
Δ SPECIALTY ITEMS

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	PLOT DATE = 2/22/2019	DATE - 2/20/2019	REVISED -		ILLINOIS FED. AID PROJECT								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE PAINTING
				90% FED 10% STATE
				BRIDGE
				0047
				S.N. 050-0129
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1	1
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
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42



**TYPICAL SECTION 1**  
T.R. 244 (E. 14TH RD.)



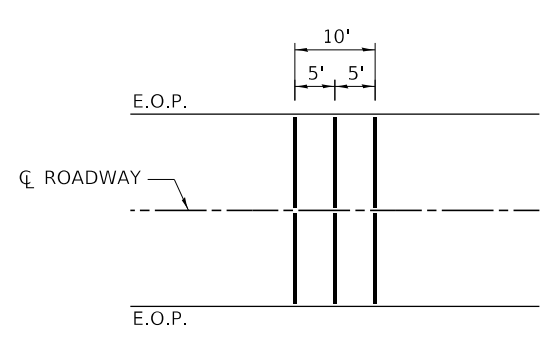
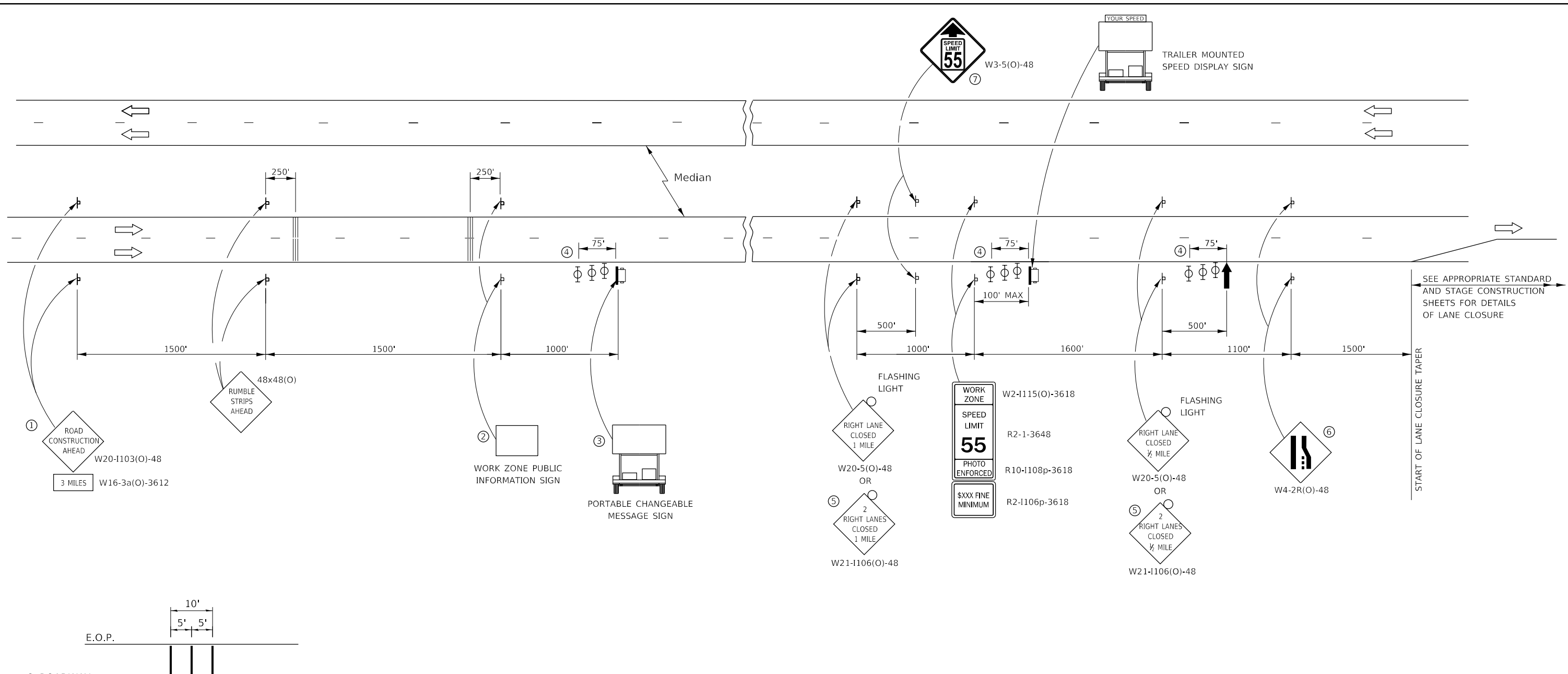
**TYPICAL SECTION 2**  
I-80

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

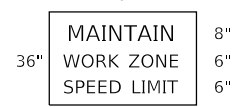
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SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-3HB-2)BP	LASALLE	12	5
CONTRACT NO. 66K14				
ILLINOIS FED. AID PROJECT				



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:  
"RIGHT LANE CLOSED" / " x MILES AHEAD"  
"LEFT LANE CLOSED" / " x MILES AHEAD"  
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▤ TEMPORARY RUMBLE STRIPS (SPECIAL) (SEE DETAIL & SPECIAL PROVISION)

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

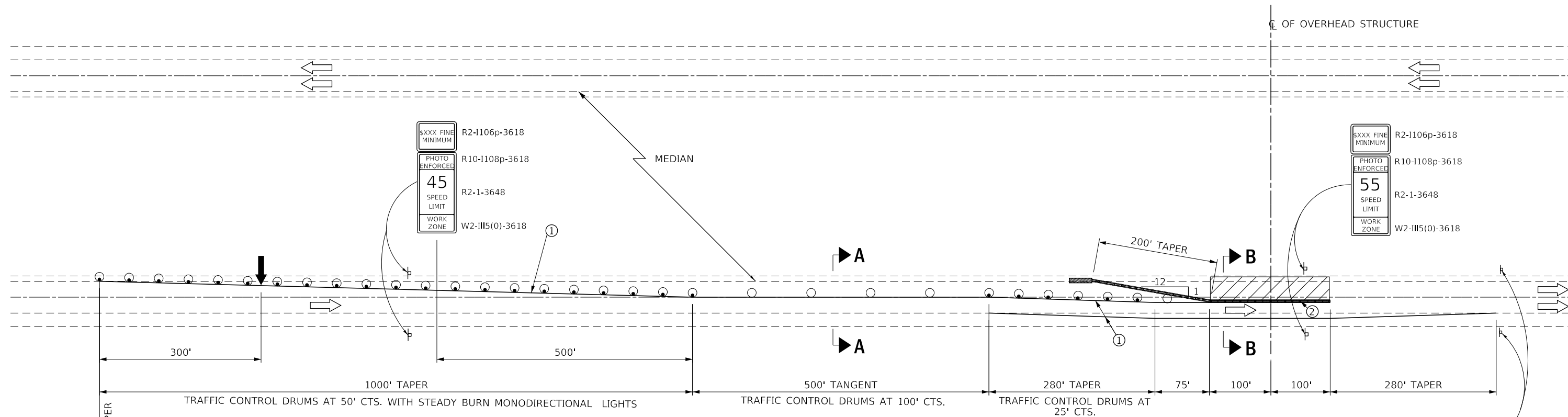
WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

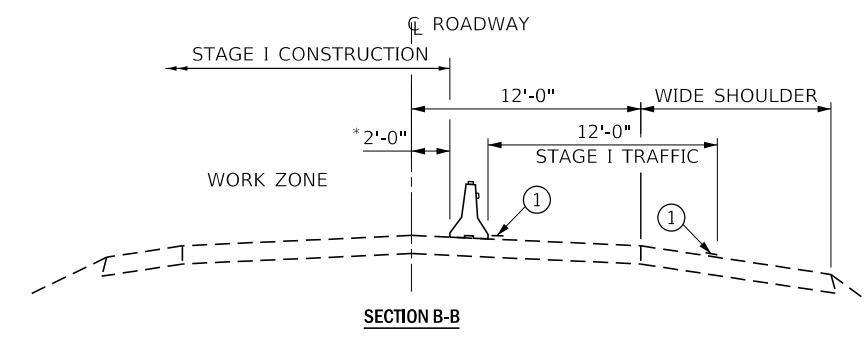
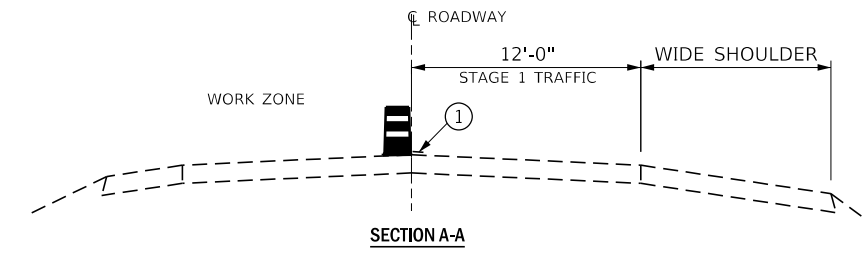
SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

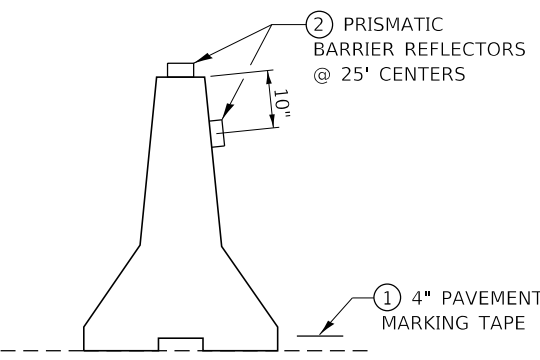
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	PLOT DATE = 2/21/2019		REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



SEE STANDARD 701400 FOR APPROACH OF LANE CLOSURE TAPER



**STAGE I**



**TEMPORARY CONCRETE BARRIER**

\*NO EQUIPMENT OR MATERIALS SHALL ENCROACH WITHIN A DISTANCE OF 2'-0" Laterally AS MEASURED FROM THE BASE OF THE TEMPORARY CONCRETE BARRIER.

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' (7.6 M). MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- ③ EXISTING PAVEMENT MARKING

**SYMBOLS**

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⊥ SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- ▣ IMPACT ATTENUATOR

**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

CALCULATE L AS FOLLOWS:

NORMAL POSTED SPEED	FORMULAS
45 MPH OR MORE	ENGLISH $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS).  
S = NORMAL POSTED SPEED IN MPH (KM/H).

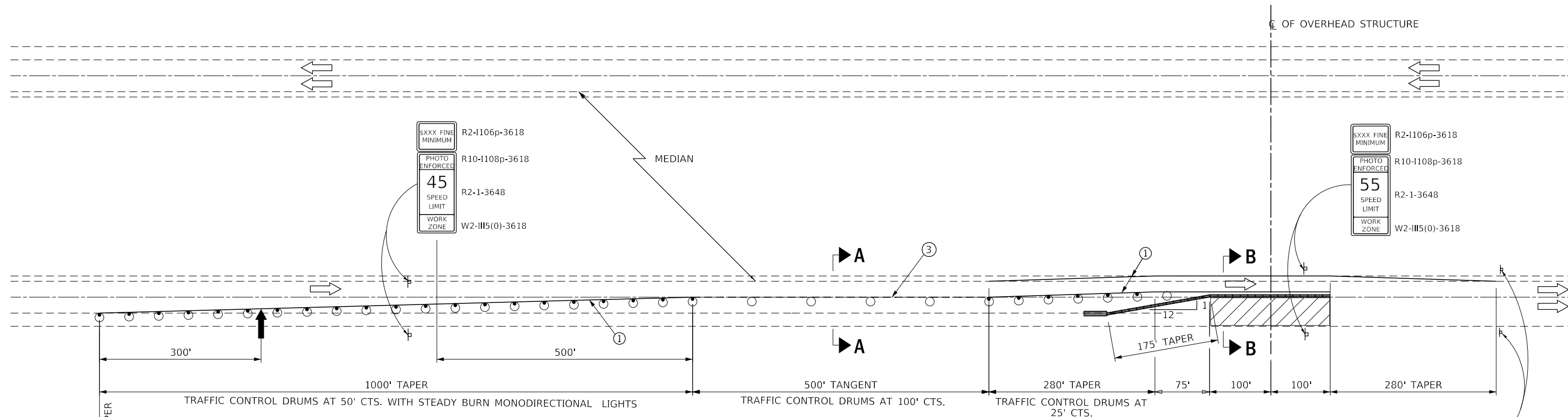
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

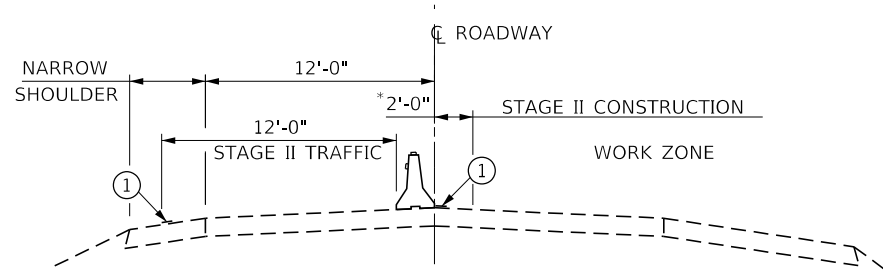
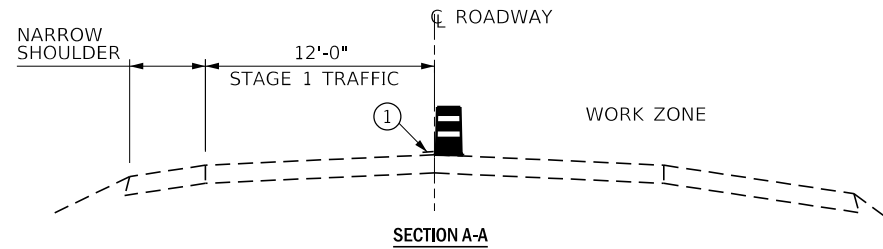
**TRAFFIC CONTROL AND PROTECTION,  
STANDARD 701402 (SPECIAL) - STAGE I**

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

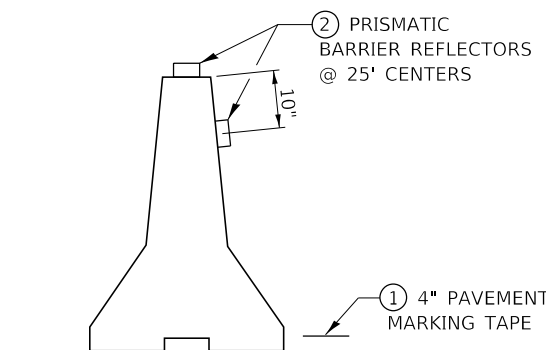
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-3HB-2)BP	LASALLE	12	7
CONTRACT NO. 66K14				
ILLINOIS FED. AID PROJECT				



SEE STANDARD 701400 FOR APPROACH OF LANE CLOSURE TAPER



**STAGE II**



**TEMPORARY CONCRETE BARRIER**

\*NO EQUIPMENT OR MATERIALS SHALL ENCROACH WITHIN A DISTANCE OF 2'-0" Laterally as measured from the base of the temporary concrete barrier.

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' (7.6 M). MARKERS ON RIGHT SHALL BE SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- ③ EXISTING PAVEMENT MARKING

**SYMBOLS**

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⊥ SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- ▣ IMPACT ATTENUATOR

**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

CALCULATE L AS FOLLOWS:  
NORMAL POSTED SPEED FORMULAS

45 MPH OR MORE ENGLISH  
 $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS).

S = NORMAL POSTED SPEED IN MPH (KM/H).

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	PLOT DATE = 2/21/2019	DATE - 2/20/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION,  
STANDARD 701402 (SPECIAL) - STAGE II**

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

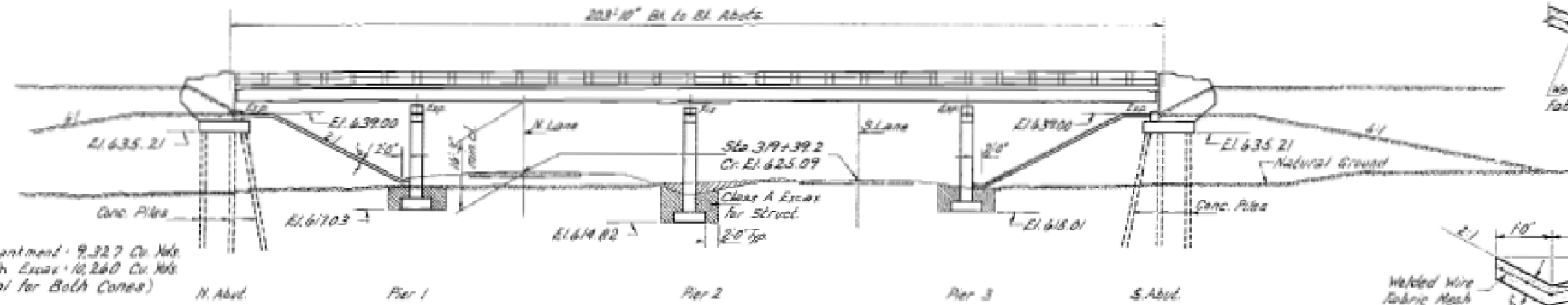
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-3HB-2)BP	LASALLE	12	8
CONTRACT NO. 66K14				
ILLINOIS FED. AID PROJECT				



B.M. in SW Corner S. Main  
Sta. 325+00 Elev 621.08

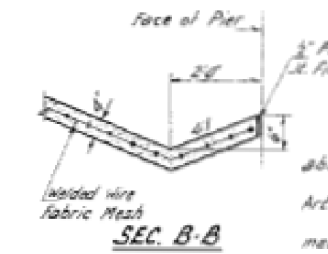
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

DATE	BY	CHKD	APP'D
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		P-31	12

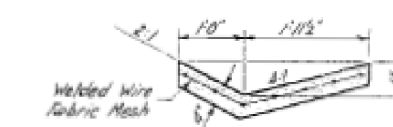


Embankment: 9,327 Cu. Yds.  
Earth Escav: 10,260 Cu. Yds.  
(Total for Both Cuts)

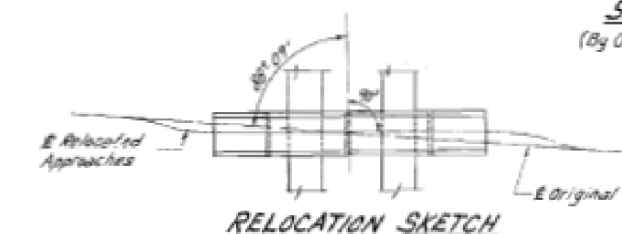
ELEVATION



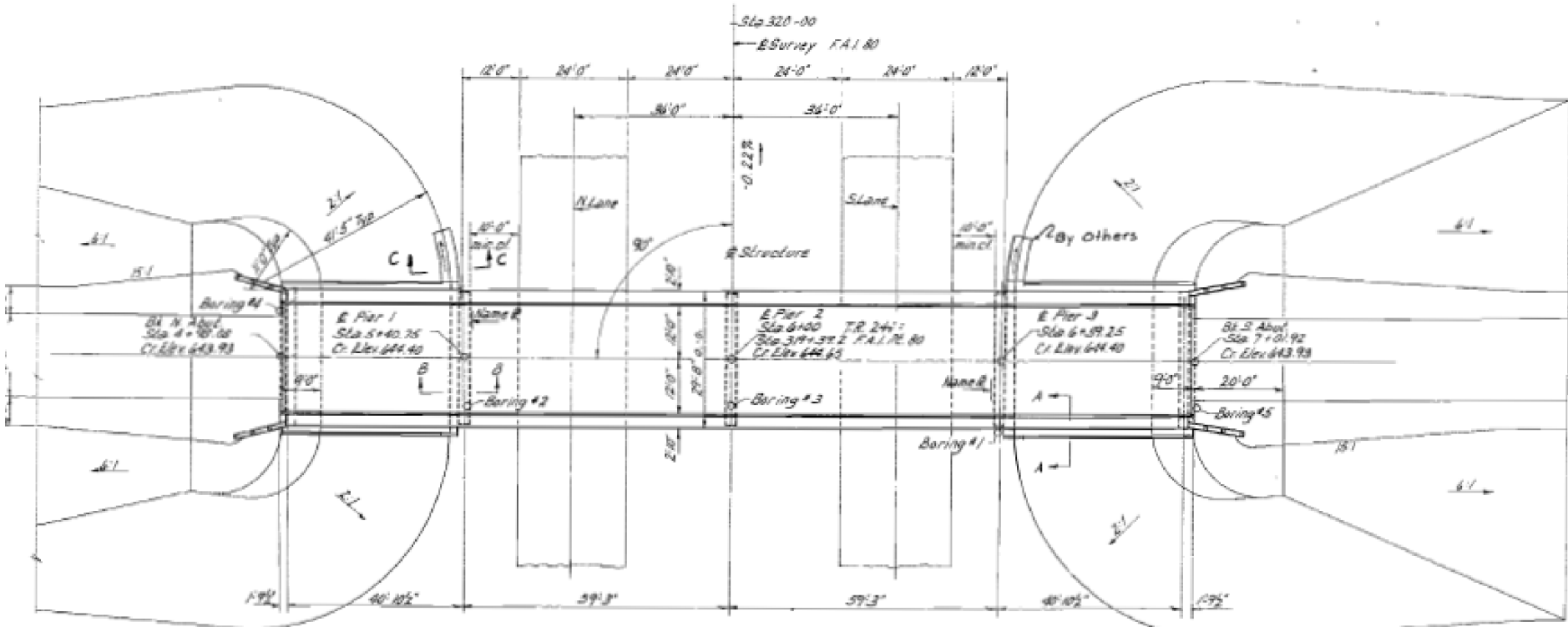
SEC. B-B



SEC. C-C  
(By Others)



RELOCATION SKETCH



PLAN



LOCATION SKETCH

SECTION A-A

SECTION 3HB-2  
TOTAL BILL OF MATERIAL

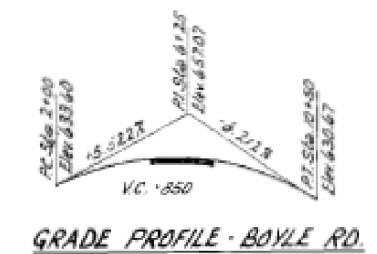
Item	Super	Sub	Total
Earth Excavation	Cu. Yds.		10,260
Class A Excavation for Struct.	Cu. Yds.	200	200
Class X Concrete	Cu. Yds.	1490	206.9
Erecting Structural Steel	Lbs.	125,900	125,900
Metal Horizontal-Galvanized	Lbs.	400	400
Reinforcement Bars	Lbs.	31,480	46,510
Concrete Piles	L.Ft.	590	590
Test Piles (Concrete)	Lbs.	1	1
Name Plates	Pa.	2	2
Slope Wall	Sq. Yds.	370	370

SECTION 3HF-2  
Existing Structural Steel 125,900 125,900

DESIGNED: T. J. G...  
CHECKED: W. H...  
DRAWN: T. J. G...  
CHECKED: W. H...  
APR 27 1961  
DRAWN: H. B...  
APPROVED: R. B...

DESIGN STRESSES  
10,000 p.s.i. Super T Sub.  
18,000 p.s.i. Reinf.  
18,000 p.s.i. Structural Steel  
18,000 p.s.i. Footings  
LOADING HIS-S12-44  
Max. Rating Pressure: 4,500 p.s.i. @ Pier 1 & 3  
5,500 p.s.i. @ Pier 2

319+39.2  
BUILT 196 BY  
STATE OF ILLINOIS  
K.A. 1 RT. 80 SEC. 50-3HB-2  
F.A. PROJ. I-80-3 (8)  
LOADING HIS-S12  
NAME PLATE  
See Sld 213

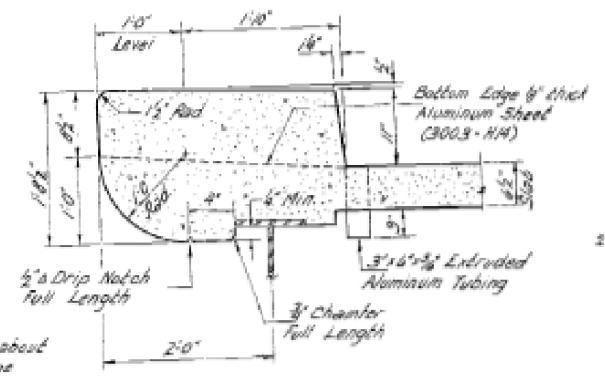
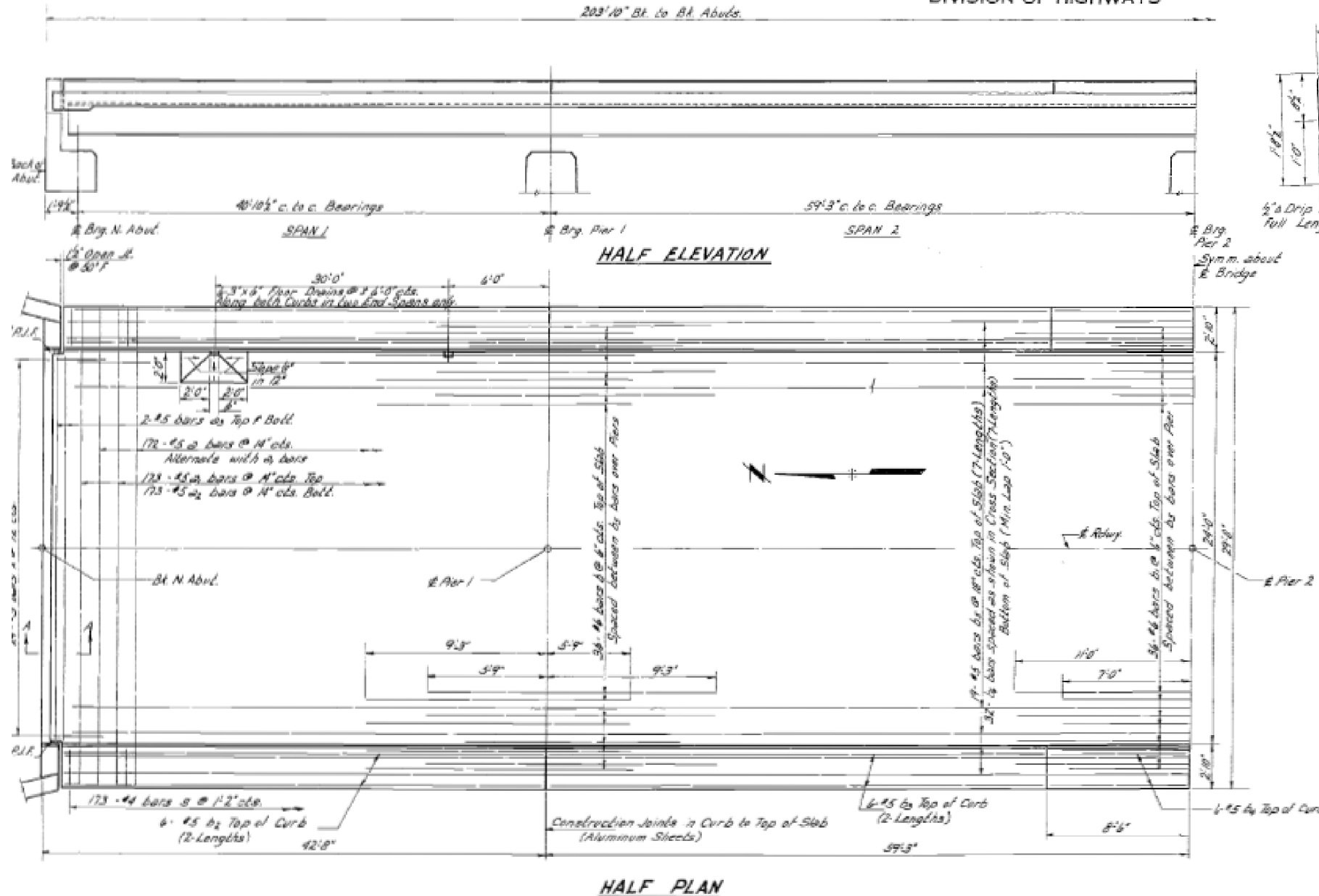


GRADE PROFILE - BOYLE RD.

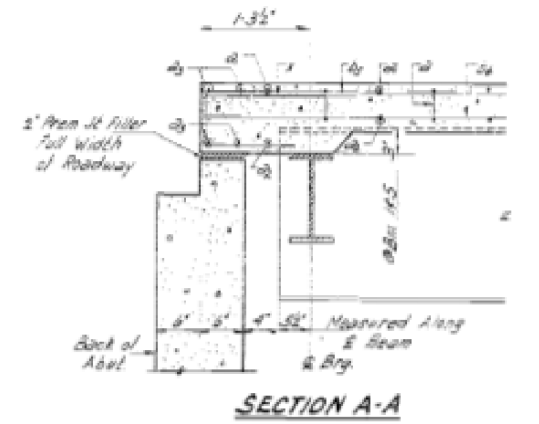
GENERAL PLAN & ELEVATION  
PROJ. I-80-3 ( )  
TR. 244 (BOYLE RD) OVER  
F.A. RT. 80 SEC. 50(3HB-2, 3HF-2)  
LaSALLE COUNTY  
STA. 319+39.2

FOR INFORMATION ONLY

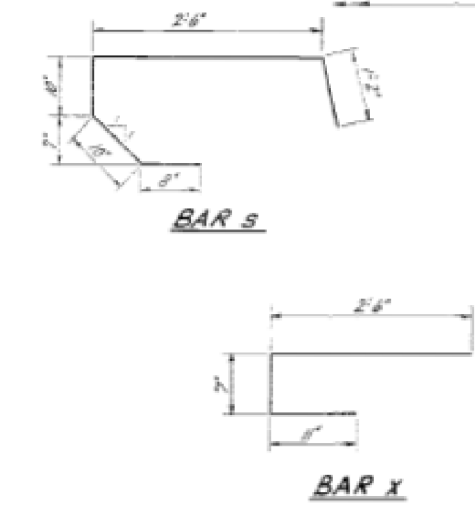
LA SALLE	B-61	36
P-21	14	



**CURB DETAIL**  
Note: Cost of Aluminum Sheet and drains shall be incidental.



**SECTION A-A**



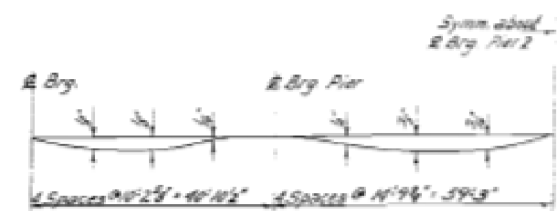
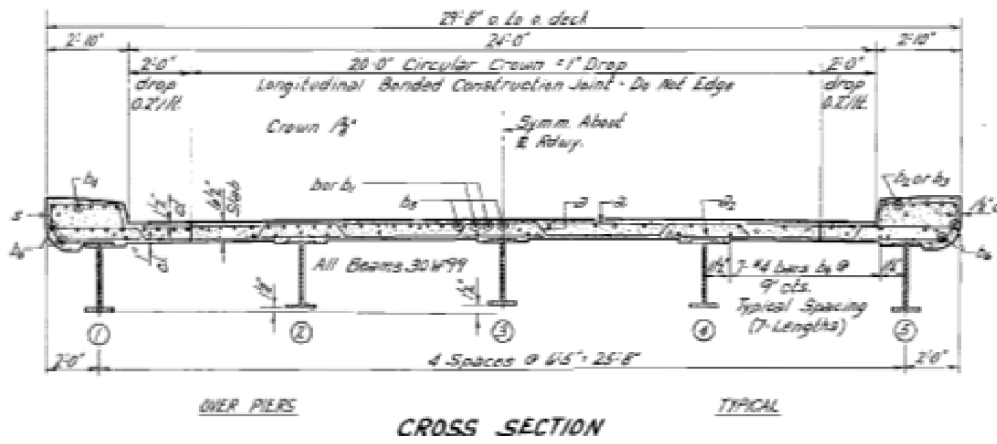
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	172	45	36.3'	
b	173	45	29.3'	
c	173	45	28'8"	
d	8	45	25'4"	
e	72	46	15'0"	
f	36	46	18'0"	
g	48	45	21'3"	
h	48	45	28'0"	
i	24	45	8'3"	
j	133	45	30'0"	
k	224	46	30'0"	
s	346	44	6'0"	
x	48	45	4'0"	
		Class X Concrete	Cu. Yds.	107.0
		Reinforcement Bars	Lbs.	31,480
		Structural Steel	Lbs.	12,590

\*Weight of Bolsters, Rockers, Bearing Plates, Lead Plates and Anchor Bolts included as Structural Steel.  
Est. Wt. - 4,430 lbs.  
Note: Min bar laps - 20 dia.

**METHOD OF DETERMINING FILLET HEIGHT "Z"**  
After all Structural Steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 5. These elevations subtracted from the "Grade Elevations adjusted for D.L. Deflections" shown on sheet 5, minus floor thickness, equals the fillet heights above top of beams.

DESIGNED: T. M. Grogg  
CHECKED: W. H. Hering  
DRAWN: T. M. G. P. Lawler  
APPROVED: R. H. Bantelmeier



**DEAD LOAD DEFLECTION DIAGRAM**  
(All Beams - for weight of Concrete only)  
Note: The above deflections are not for use in the field if the Engineer is working from the Grade Elevations Adjusted for Dead Load Deflection as shown on sheet 5.

**SUPERSTRUCTURE**  
F.A.I. RT. 80 SEC. 50(3HD)-2, 3HF-1  
LaSALLE COUNTY  
STA. 319+39.2

**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -
PROJECT =	PROJECT =	CHECKED - EP	REVISED -
PLOT SCALE = 100,0000 / 1 in.	DATE = 2/20/2019	DATE = 2/20/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

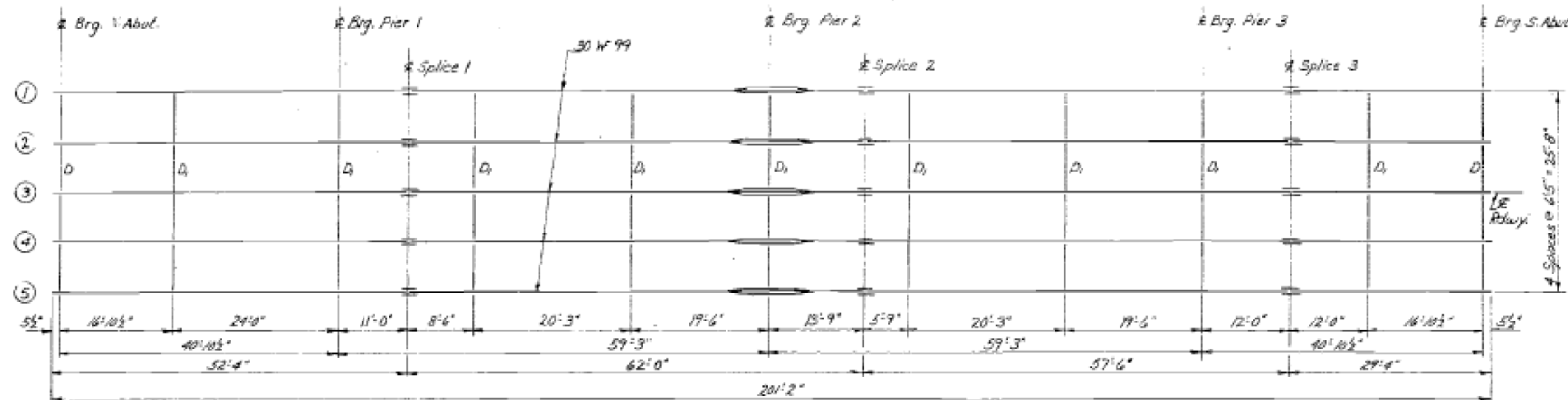
EXISTING STRUCTURE PLANS  
STRUCTURE NO. 050-0129

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

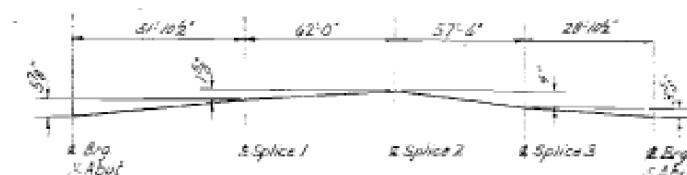
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-3HB-2)BP	LASALLE	12	10
CONTRACT NO. 66K14				

ILLINOIS FED. AID PROJECT

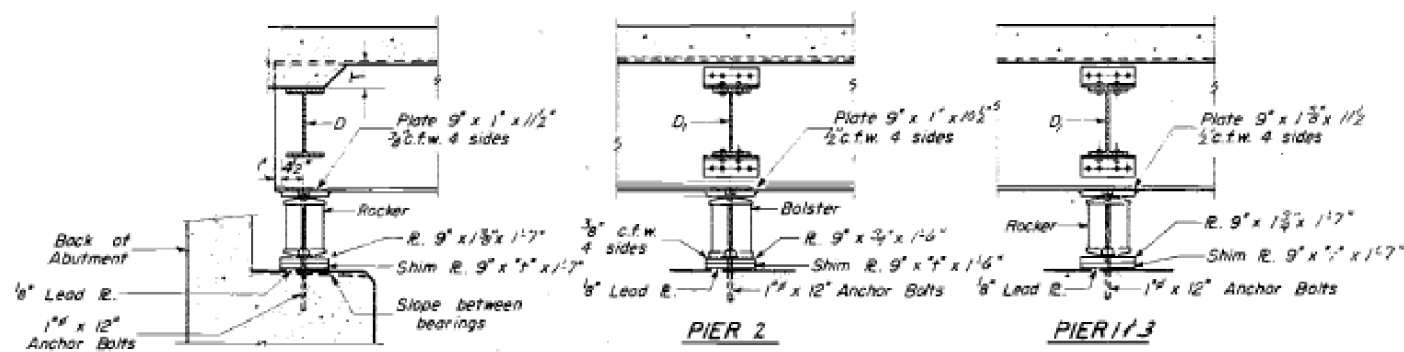
50-3HB-1, 3HF-1  
50-3HB-2, 3HF-2  
50-3HB-3, 3HF-3



STEEL FRAMING PLAN



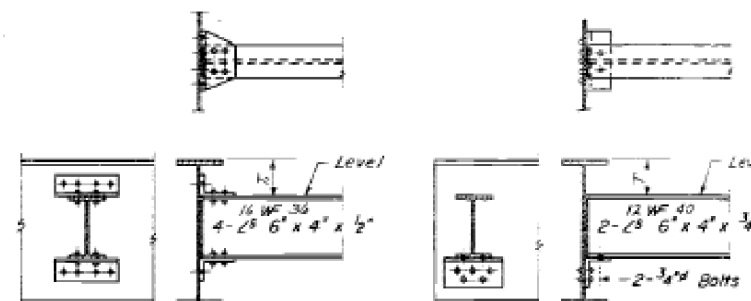
FABRICATION DIAGRAM  
(All Beams)



SECTION AT ABUTMENT

PIER 2

PIER 1/3

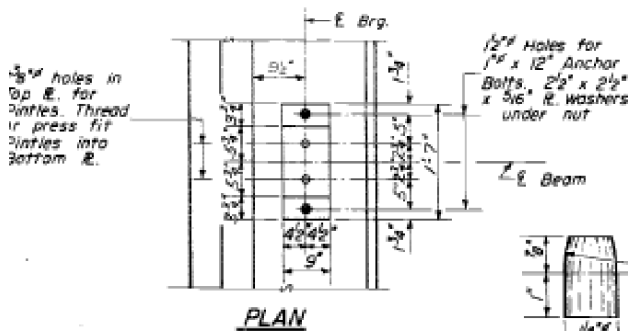


INT. DIAPHRAGM D<sub>1</sub>  
3/8" Required

END DIAPHRAGM D<sub>2</sub>  
8" Required

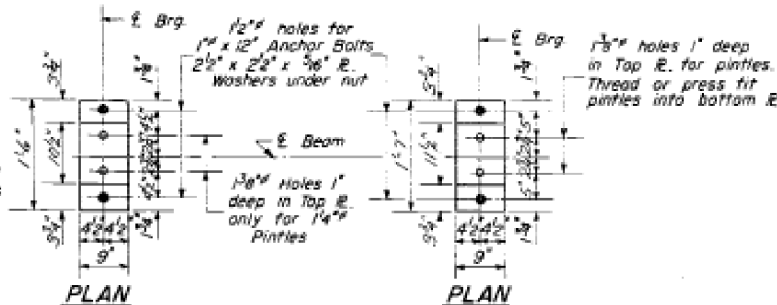
ELEVATION TOP OF BEAMS  
(For Fabrication Only)

Beam No.	7 Brg. 1 Abut.	8 Brg. 2 Pier 1	8 Brg. 3 Splice 1	8 Brg. 4 Pier 2	8 Brg. 5 Splice 2	8 Brg. 6 Pier 3	8 Brg. 7 Splice 3	8 Brg. 8 Abut.
1 & 5	643.81	643.80	643.91	643.90	643.68	643.61	643.91	
2 & 4	643.90	643.79	643.89	644.00	644.03	643.77	643.70	643.80
3	643.85	643.82	643.92	644.03	644.06	643.80	643.73	643.83



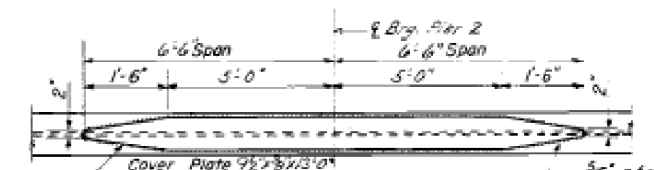
PLAN

DETAIL OF PINTLE



PLAN

PLAN



DETAIL OF COVER PLATES

TABLE OF T/F DIMENSIONS

Beam No.	1	2	3	4	5
T	3'	48"	48"	48"	3'
X	6'	78"	72"	76"	6'

TABLE OF "I" DIMENSIONS

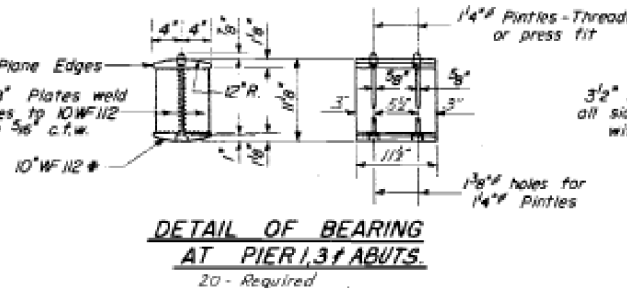
Beam No.	1	2	3	4	5
"I"	0	0	3"	0	0

STRUCTURAL STEEL

F.A.I. RT. 80 SEC. 50/3HB-2, 3HF-2  
LaSALLE COUNTY  
STA. 319+39.2

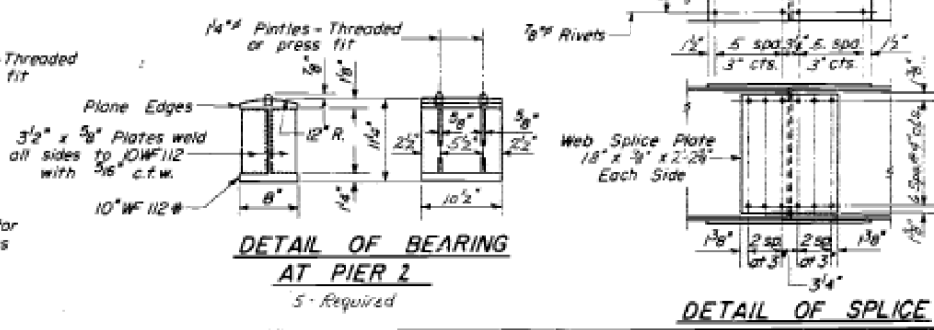
DESIGNED T. M. Gentry  
CHECKED H. Healy  
DRAWN T. M. Gentry, W. A. Sausamail  
CHECKED H. Healy  
EXAMINED H. G. Berman  
PASSED  
APPROVED R. L. Bostelman

-2 Re-drawn 8-18-59



DETAIL OF BEARING AT PIER 1, 3 & ABUTS

20 - Required

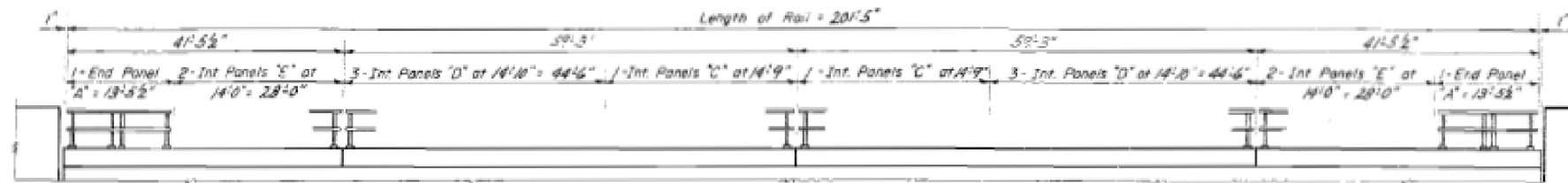


DETAIL OF BEARING AT PIER 2

5 - Required

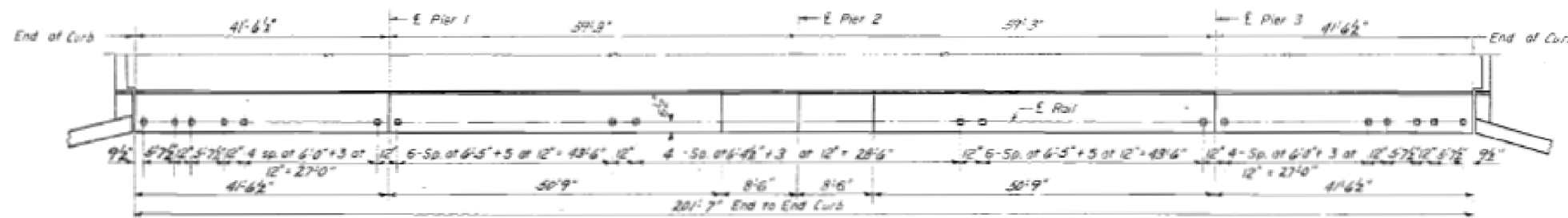
DETAIL OF SPLICE

FOR INFORMATION ONLY



ELEVATION

Showing West Rail  
(Rotate 180° For East Rail)



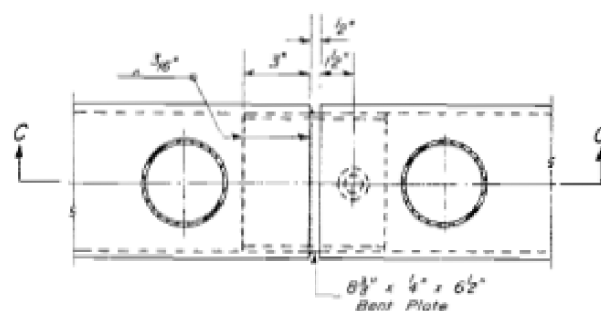
PLAN OF RAIL POSTS

DIMENSIONS OF END PANELS

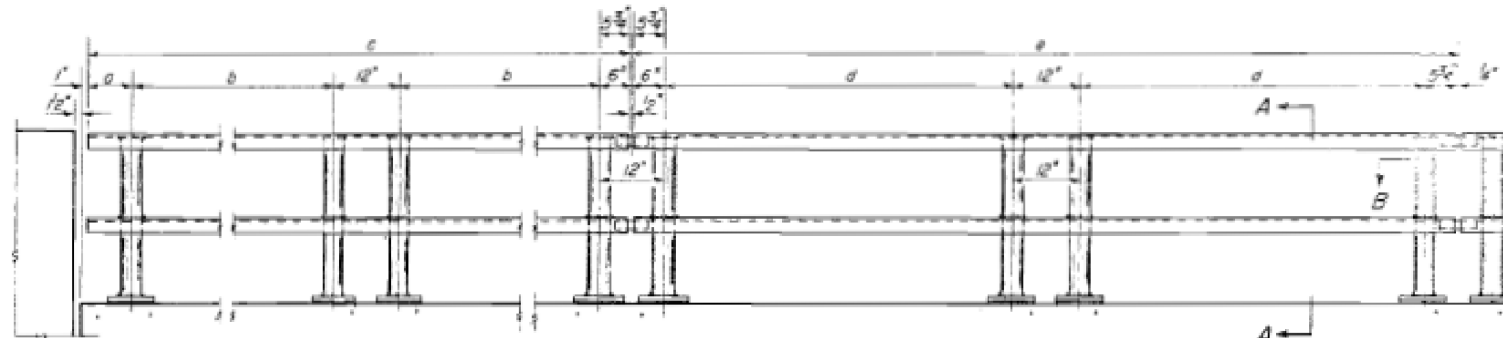
	UNIT A	UNIT B
a	8'3"	
t	5'7 1/2"	
c	13'5 1/2"	

DIMENSIONS OF INTERIOR PANELS

	UNIT C	UNIT D	UNIT E
a	6'4 1/2"	6'3"	6'0"
b	14'9"	14'0"	14'0"

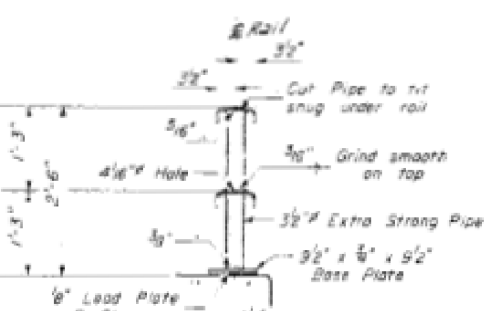


SECTION B-B

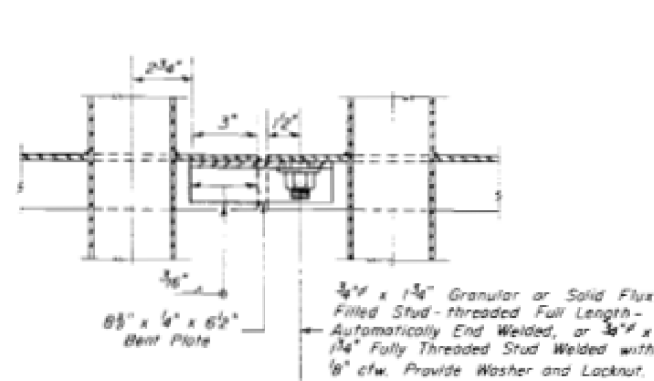


ELEVATION END PANELS

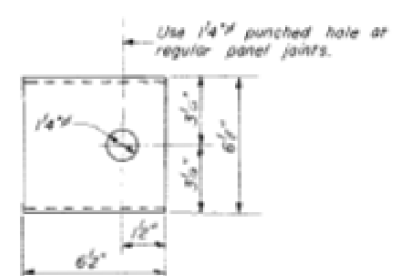
ELEVATION TYPICAL INTERIOR PANEL



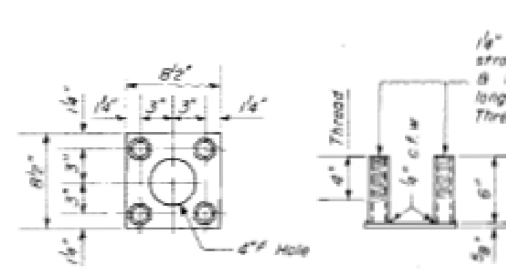
SECTION A-A



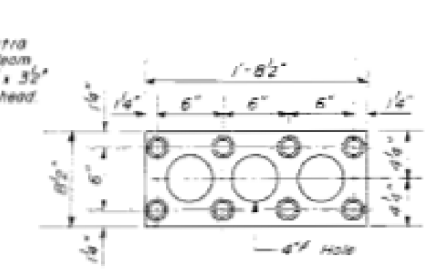
SECTION C-C



PLAN



END VIEW



ANCHOR DEVICE

For Double Posts within Each Panel

GENERAL NOTES

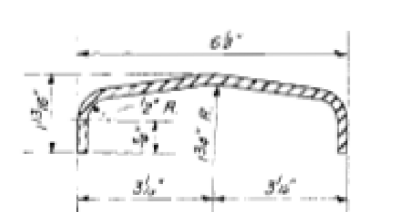
See Special Provisions for galvanizing of Metal Handrail

Provide 1-1/8" and 2-1/8" Shims for 50% of the Posts.

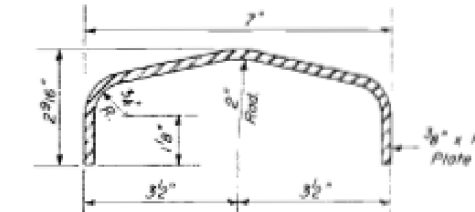
BILL OF MATERIAL

Item	Unit	Quantity
Metal Handrail/Galvanized Lin. Ft.	403	

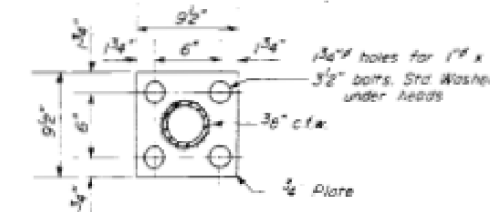
HANDRAIL



DETAIL OF 1/4" BENT PLATE



DETAIL OF RAIL



BASE PLATE ALL POSTS

DESIGNED T.M. Plowder  
CHECKED M. Hailey  
DRAWN T.M. Plowder  
CHECKED M. Hailey  
APPROVED R.B. Bartsch  
DATE 2/20/2019

F.A.I. RT. 80 SEC. 50-3HB-2  
LaSALLE COUNTY  
STA. 319+39.2

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