

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1265	(19BR)BP	LASALLE	8	1
		ILLINOIS	CONTRACT NO.	

**INDEX OF SHEETS**

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
5. TEMPORARY INFORMATION SIGNING
- 6 - 8. EXISTING STRUCTURE DETAILS FOR LOCATION NO. 1 - STRUCTURE NO. 050-0234

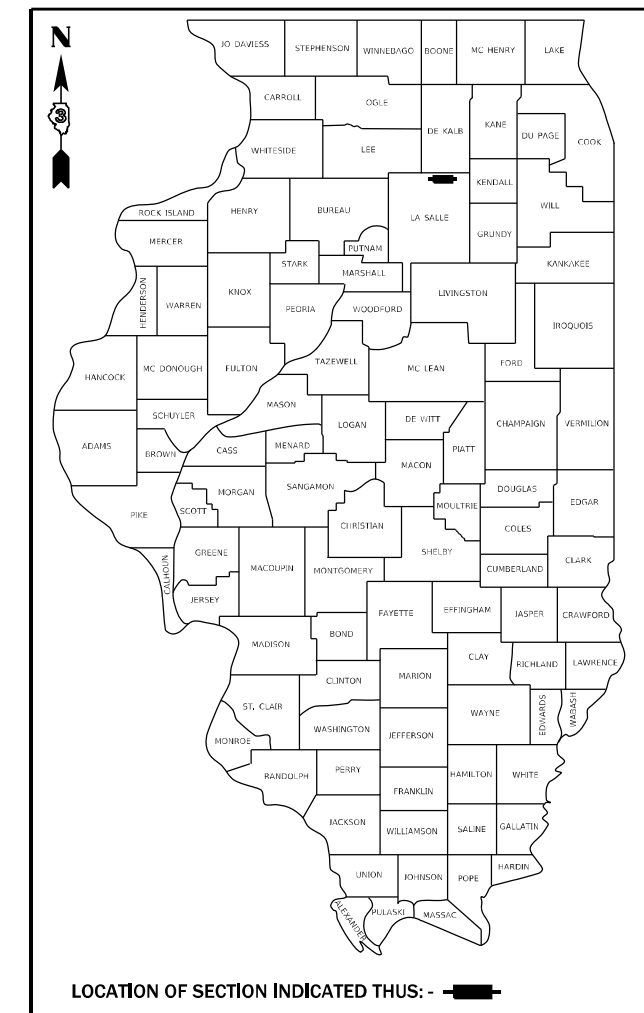
**HIGHWAY STANDARDS**

- |           |  |
|-----------|--|
| 000001-08 | 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                   |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                |
| 701901-08 | TRAFFIC CONTROL DEVICES  |

**PROPOSED  
HIGHWAY PLANS**

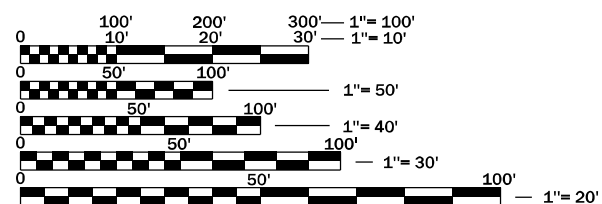
**F.A.S. ROUTE 1265 (OLD US 34)  
SECTION (19BR)BP  
PROJECT STP-L06M(197)  
BRIDGE PAINTING  
LASALLE COUNTY  
C-93-046-22**

D-93-024-22



**PROJECT LOCATION**

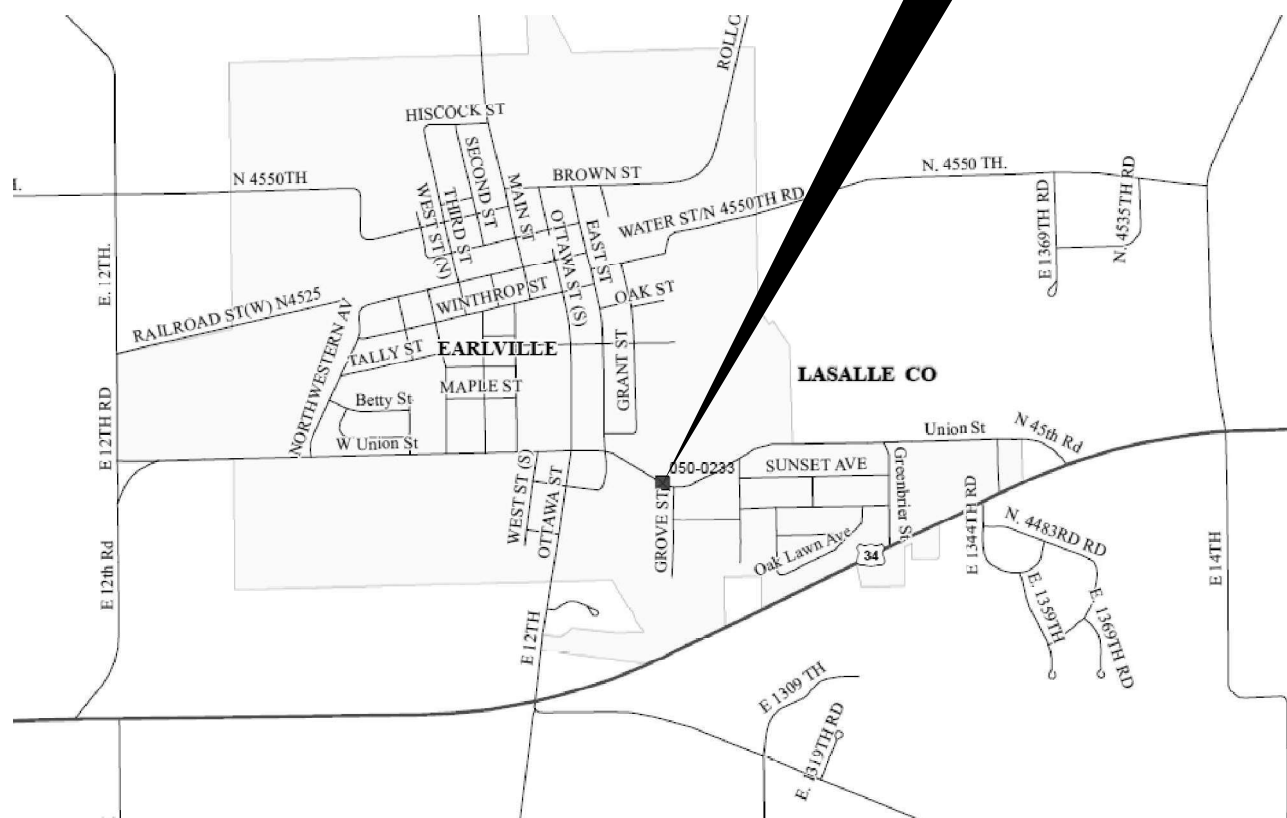
STRUCTURE NO. 050-0233  
CARRYING FAS 1265 (OLD US 34)  
OVER INDIAN CREEK IN EARLVILLE  
(W. UNION STREET)



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 YOGESH PATEL P.E.  
UNIT CHIEF RON WOODSHANK  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66M25



**FUNCTIONAL CLASSIFICATION**

RURAL MAJOR COLLECTOR  
F.A.S. ROUTE 1265 (OLD US 34)  
2019 ADT = 2200  
P.V. 100.0 % S.U. 0.0 % M.U. 0.0 %

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18, 2022  
*[Signature]*  
REGIONAL ENGINEER

May 13, 2022  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022  
*[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 APPROVED ADJUSTMENTS PRIOR TO ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL BOX BEAMS, STEEL I BEAMS, STEEL GIRDERS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE FOLLOWING SPECIAL PROVISIONS.

"CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

"CLEANING AND PAINTING EXISTING STEEL STRUCTURES",

THE CONTRACTOR IS BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CANNOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR OR SUBCONTRACTOR LISCENSED TO DISPOSED OF LEAD/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 LEAD/NON-LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED 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 REMOVED FROM THE JOB SITE AND DISPOSED OF.

**STRUCTURE NOTES**

**STRUCTURE NO. 050-0233 IS DESIGNATED AS "LOCATION 1".**

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 050-0233 ARE "NON-LEAD" COATINGS.

SSPC-QP1, "PAINTING CONTRACTOR CERTIFICATIONS" SHALL BE REQUIRED FOR THIS STRUCTURE.

CLEANING AND PAINTING STRUCTURAL STEEL I BEAMS/GIRDERS. AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL I-BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

ALL EXISTING STRUCTURAL STEEL, INCLUDING ALL SURFACES OF THE STEEL I BEAM, DIAPHRAGMS, STEEL COMPONENTS ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE BRACKETS AND STEEL HANDRAILS (WHEN PRESENT).

ALL EXISTING STRUCTURAL STEEL COMPONENTS AS DESCRIBED ABOVE SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

PAINTING.

THE FINAL FINISH COAT FOR THE "EXTERIOR" FACE OF THE FASCIA BEAMS, THE BOTTOM FLANGE OF THE FASCIA BEAMS AND THE EXTERIOR BEARINGS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

THE FINAL FINISH COAT FOR THE INTERIOR SURFACE OF THE FASCIA BEAMS, ALL EXPOSED SURFACES OF THE INTERIOR BEAMS/ GIRDERS. STEEL COMPONENTS OF ALL INTERIOR BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL STIFFENERS, DRAINS, STEEL ANGLE BRACKETS SHALL BE "GRAY, MUNSELL NO. 5B 7/1.

STEEL HAND RAILS (WHEN PRESENT): THE FINAL FINSH COAT FOR ALL STEEL COMPONENTS OF THE HANDRAIL SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

**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: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

DATE: \_\_\_\_\_

EXAMINED BY: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

\_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

\_\_\_\_\_  
DISTRICT OPERATIONS ENGINEER

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	DRAWN - RW	REVISED -
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PLOT DATE = 3/18/2022	DATE - 9/16/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1265	(19BR)BP	LASALLE	8	2
CONTRACT NO. 66M25				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING 80% FED 20% STATE	BRIDGE 0047 S.N. 050-0233
67100100	MOBILIZATION	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1		1
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 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

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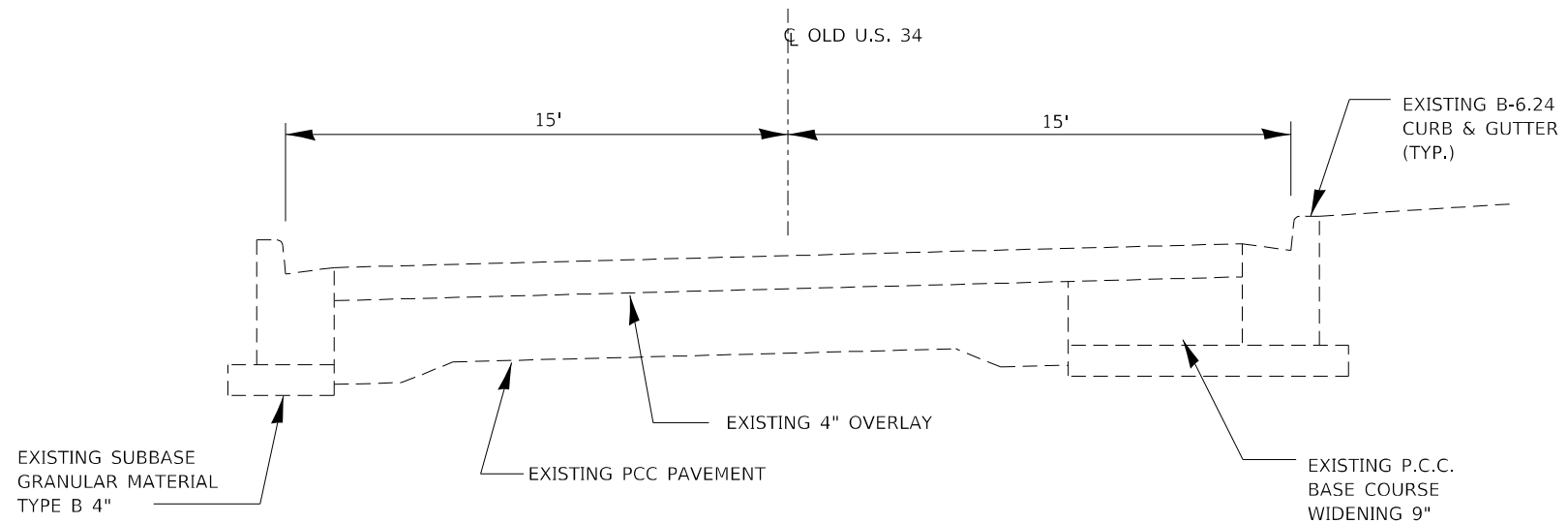
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PLOT DATE = 3/18/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.S. RTE. 1265	SECTION (19BR)BP	COUNTY LASALLE	TOTAL SHEETS 8	SHEET NO. 3
			CONTRACT NO. 66M25	
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION**

STA. 622+60 TO STA. 624+40  
 STA. 624+40 TO 625+86 STRUCTURE  
 STA. 625+96 TO STA. 629+40

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PLOT DATE = 3/18/2022	DATE -	REVISED -

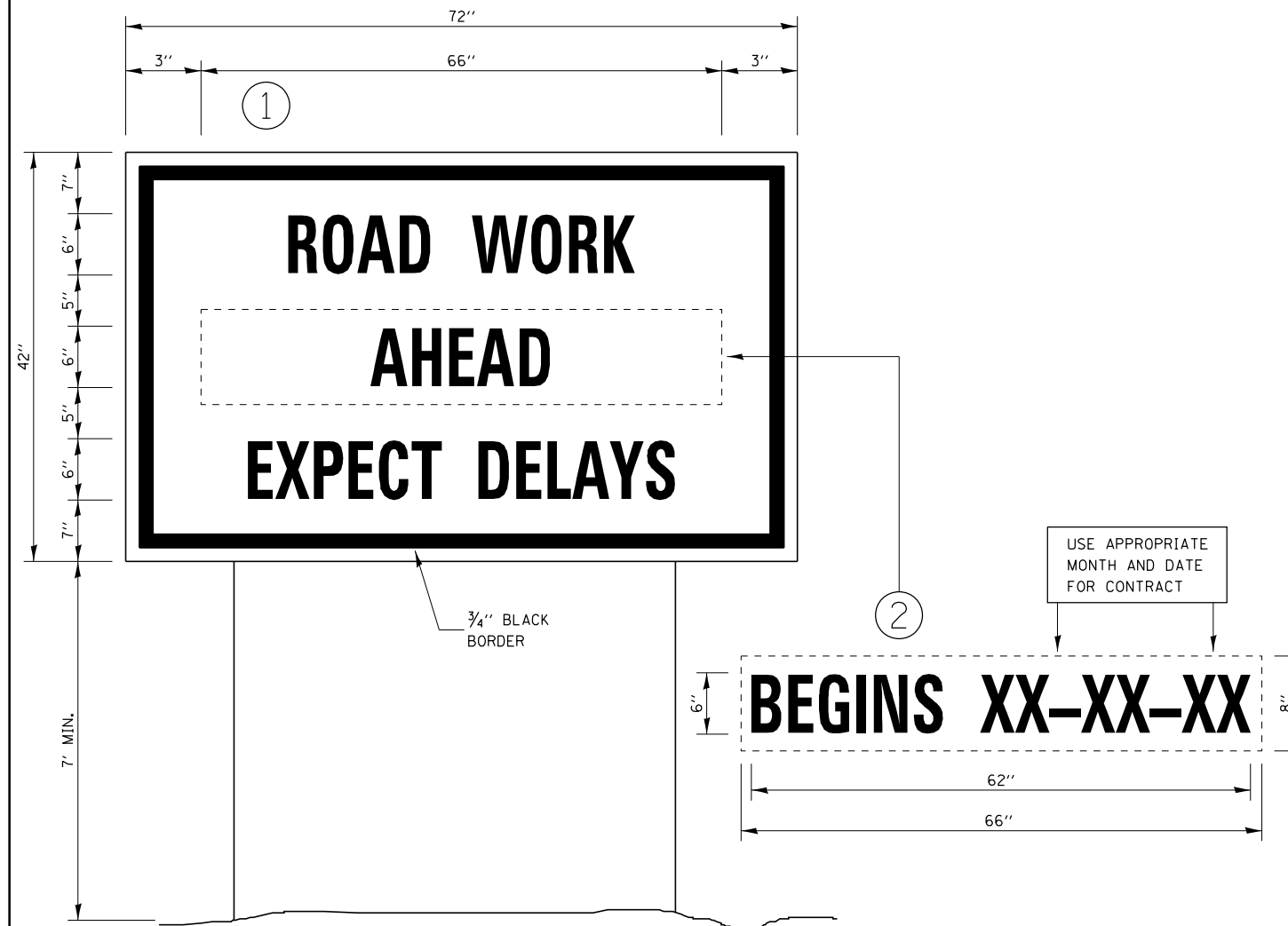
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION**

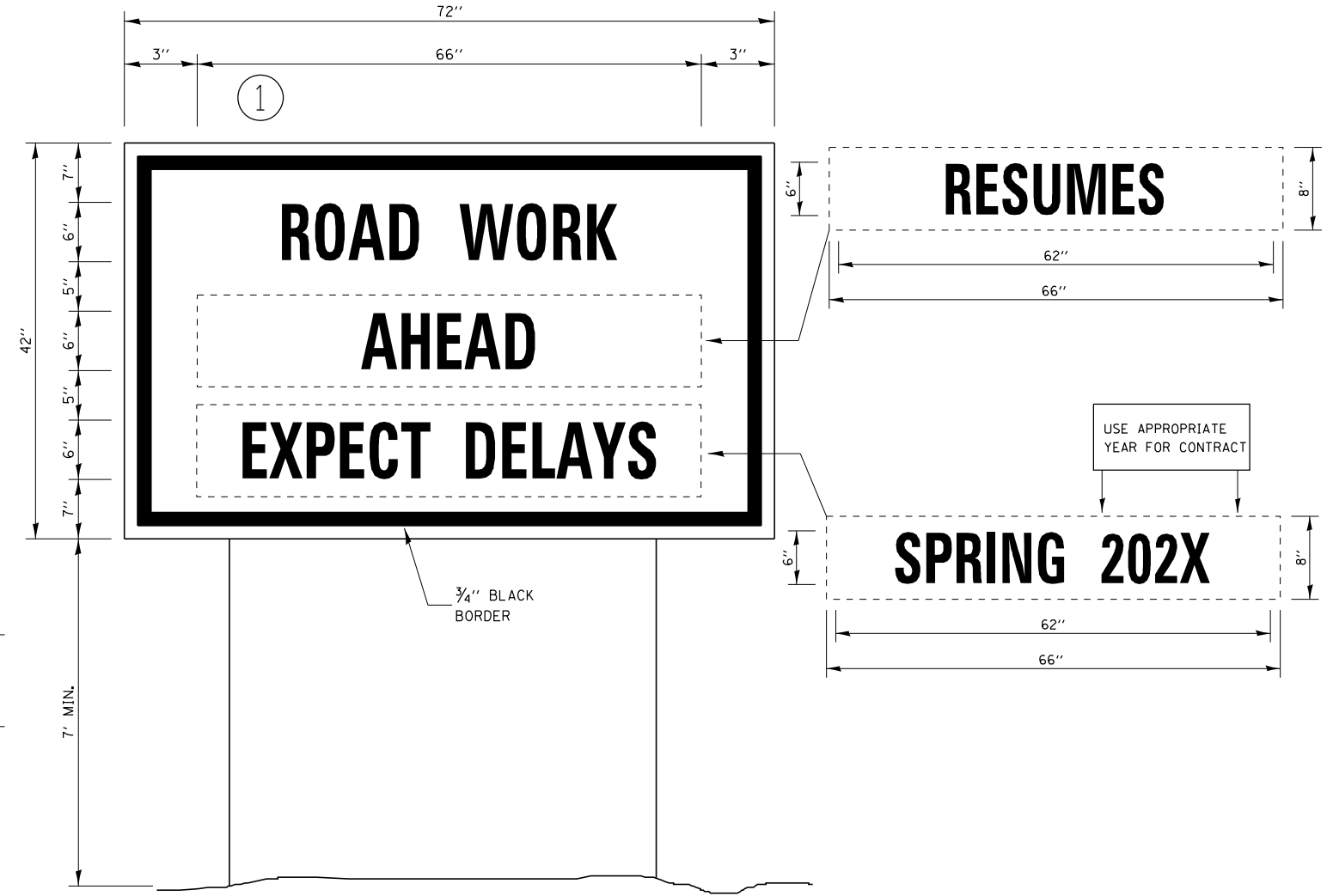
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1265	(19BR)BP	LASALLE	8	4
CONTRACT NO. 66M25				
ILLINOIS FED. AID PROJECT				

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**TEMPORARY INFORMATION SIGNING**



**WINTER SHUT DOWN SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLOURESENT 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.

USER NAME = woodshank	DESIGNED -	REVISED -
PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INFORMATION SIGNING**

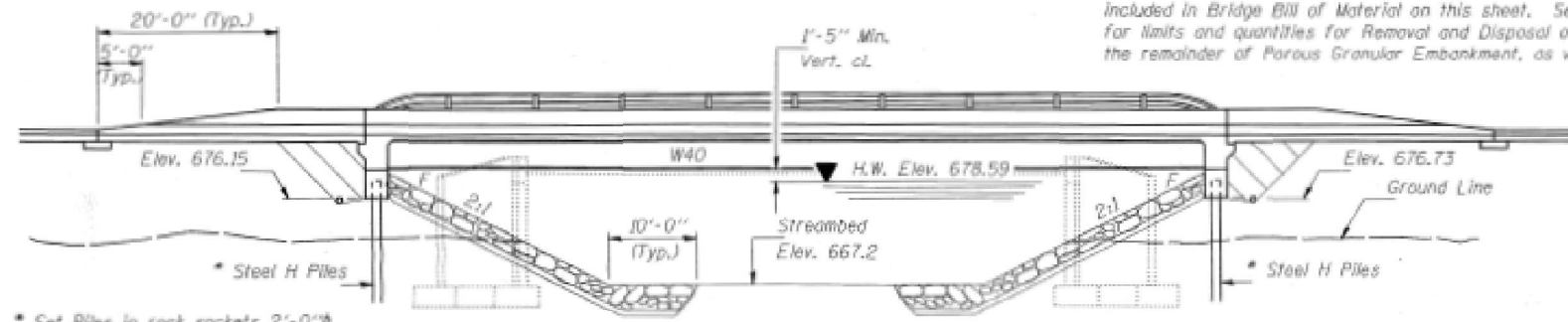
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1265	(19BR)BP	LASALLE	8	5
CONTRACT NO. 66M25				
ILLINOIS FED. AID PROJECT				

Bench Mark: R.R.S. in power pole Station 267+45, Elev. 682.47

Existing Structure: Structure Number 050-0122 is a single span reinforced concrete T-beam superstructure on closed abutments. It shall be completely replaced by an all new single span wide flange structure on integral abutments. Traffic will be detoured during construction.

No salvage.



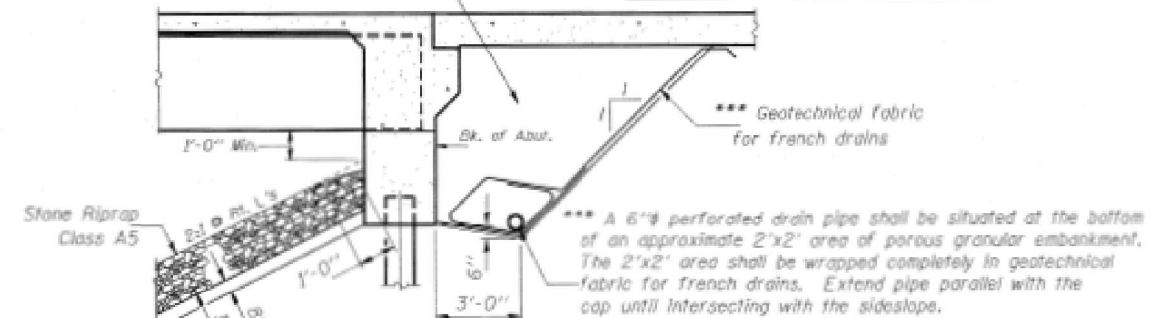
\* Set Piles in rock sockets 2'-0" drilled 4" Min. into rock. See Special Provisions.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

\*\* Remove soft unsuitable soils to Elev. +670.0 behind each existing abutment. Replace with Porous Granular Embankment to 2.0' above any water level in the excavation and, above that level, with suitable earth embankment. (Hatched areas indicate Porous Granular Embankment included in Bridge Bill of Material on this sheet. See Roadway Plans for limits and quantities for Removal and Disposal of Unsuitable Materials, the remainder of Porous Granular Embankment, as well as Embankment.)

Backfill with uncompacted Porous Granular Embankment with a gradation of CA-5 or CA-7 by Bridge Contractor after Superstructure is in place.

SECTION	NO.	DATE	BY	CHKD	SHEET NO.
S.B.I.	198R	LA SALLE		12	14 SHEETS

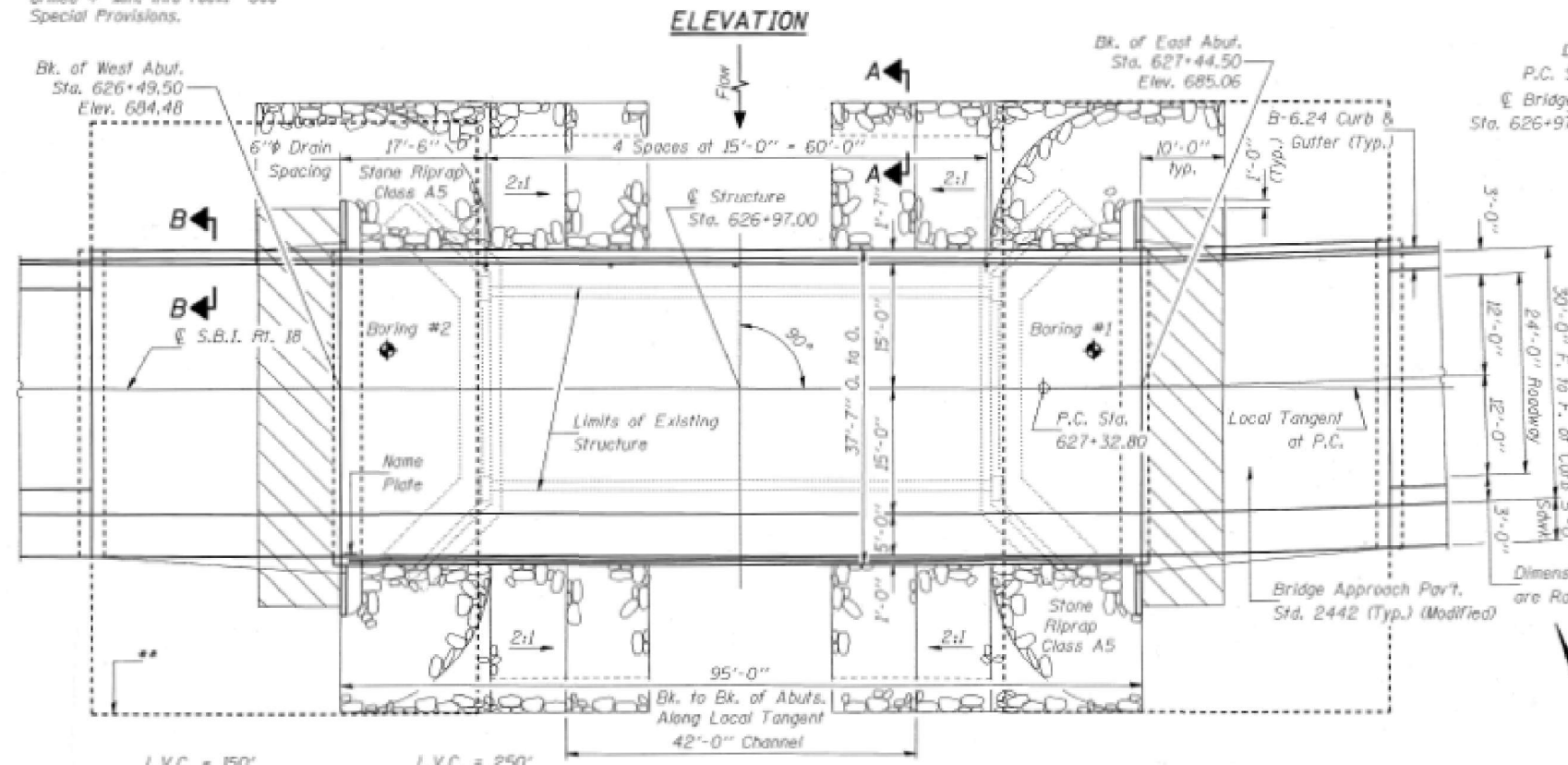


INTEGRAL ABUTMENT DETAILS

\*\*\* Cost incidental to "Porous Granular Embankment"

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 3/4" dia. open holes 5/8" unless otherwise noted.  
 Calculated weight of Structural Steel AASHTO M270, Gr. 35 - 3,490 Lbs.  
 Calculated weight of Structural Steel AASHTO M270, Gr. 50 - 118,370 Lbs.  
 The Inorganic Zinc-silicate/Acrylic/Acrylic paint system shall be used for shop and field painting of Structural Steel. The color of the acrylic finish coat shall be Munsel No. 7.5 G 4/8 Interstage Green.  
 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.  
 The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams.  
 Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.  
 Layout of Stone Riprap may be varied in the field to suit ground conditions as directed by the Engineer.



ELEVATION

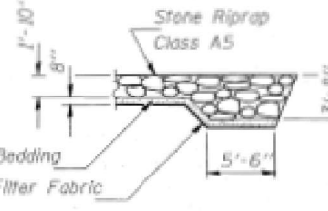
PLAN

OFFSET SKETCH

STATION 626+97.00  
 BUILT 199 BY  
 STATE OF ILLINOIS  
 S.B.I., RT. 18 SEC. 198R  
 F.A. PROJ. 050-0233  
 LOADING HS20  
 STR. NO. 050-0233

NAME PLATE

See Std. 2113



SECTION A-A

(Riprap Flank Detail)

SEISMIC DATA

S.P.C. - A  
 A - 0.038  
 S - 1.0

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

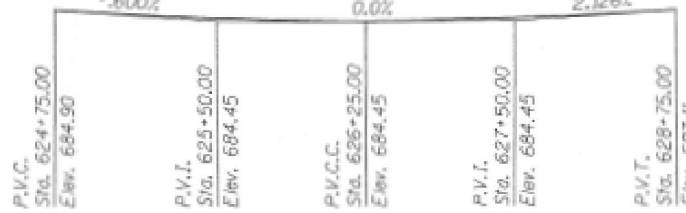
DESIGN SPECIFICATIONS

1992 AASHTO & 1993 Interim

DESIGN STRESSES

FIELD UNITS

$f_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270, Gr. 50, Struct. Steel)



CURVE DATA

P.I. Sta. = 628+97.8  
 $\Delta = 54^\circ 05' 20''$   
 $D = 17^\circ 43' 37.5''$   
 $R = 323.21'$   
 $T = 165'$   
 $L = 305.12'$   
 $E = 39.68'$   
 $S.E. = 0.041'$   
 P.C. Sta. = 627+32.80  
 P.T. Sta. = 630+37.92  
 S.E. Transition = 624+70 to 626+45

WATERWAY INFORMATION

Drainage Area = 92.3 Sq. M. Low Grade Elev. 677.50 @ Sta. 626+97.00						
Flood	Freq. Yr.	0	Opening Sq. Ft.	Wat. Head - Ft.	Headwater EL	Headwater EL
Design	50	3820	525	738	678.59	0.93 0.05 679.52 678.64
Base	100	4300	525	770	678.95	1.28 0.06 680.23 679.01
Max. Calc.	500	5400	525	838	679.70	2.13 0.12 681.83 679.82

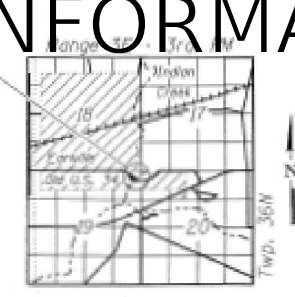
DESIGNED: Paul A. Johnson  
 CHECKED: Ralph E. Anderson  
 DRAWN: John F. Schneller Jr.  
 CHECKED: PSJ DGV

EXAMINED: Ralph E. Anderson  
 PASSED: Ralph E. Anderson  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 081-004625

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		248	248
Porous Granular Embankment	Cu. Yd.		200	200
Removal of Existing Structures	Each		1	1
Floor Drains	Each	5		5
Concrete Superstructure	Cu. Yd.	160.8		160.8
Protective Coat	Sq. Yd.	87		87
Concrete Structures	Cu. Yd.		36.9	36.9
Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	972		972
Reinforcement Bars (Epoxy Coated)	Pound	27,820	3,780	31,600
Furnishing Steel Piles (HP12 x 63)	Ft.		216	216
Name Plates	Each	1		1
Stone Riprap Class A5	Sq. Yd.		604	604
Filter Fabric for use with Riprap	Sq. Yd.		604	604
Bridge Deck Grooving	Sq. Yd.	317		317
Setting Piles in Rock	Each		12	12
Bar Splicers	Each	74		74
Aluminum Rolling, Type L	Ft.	93		93

\* Quantity is for the top and inside surface of Parapets. (Including the Parapet transitions on the north side of both Approach Pavements.)

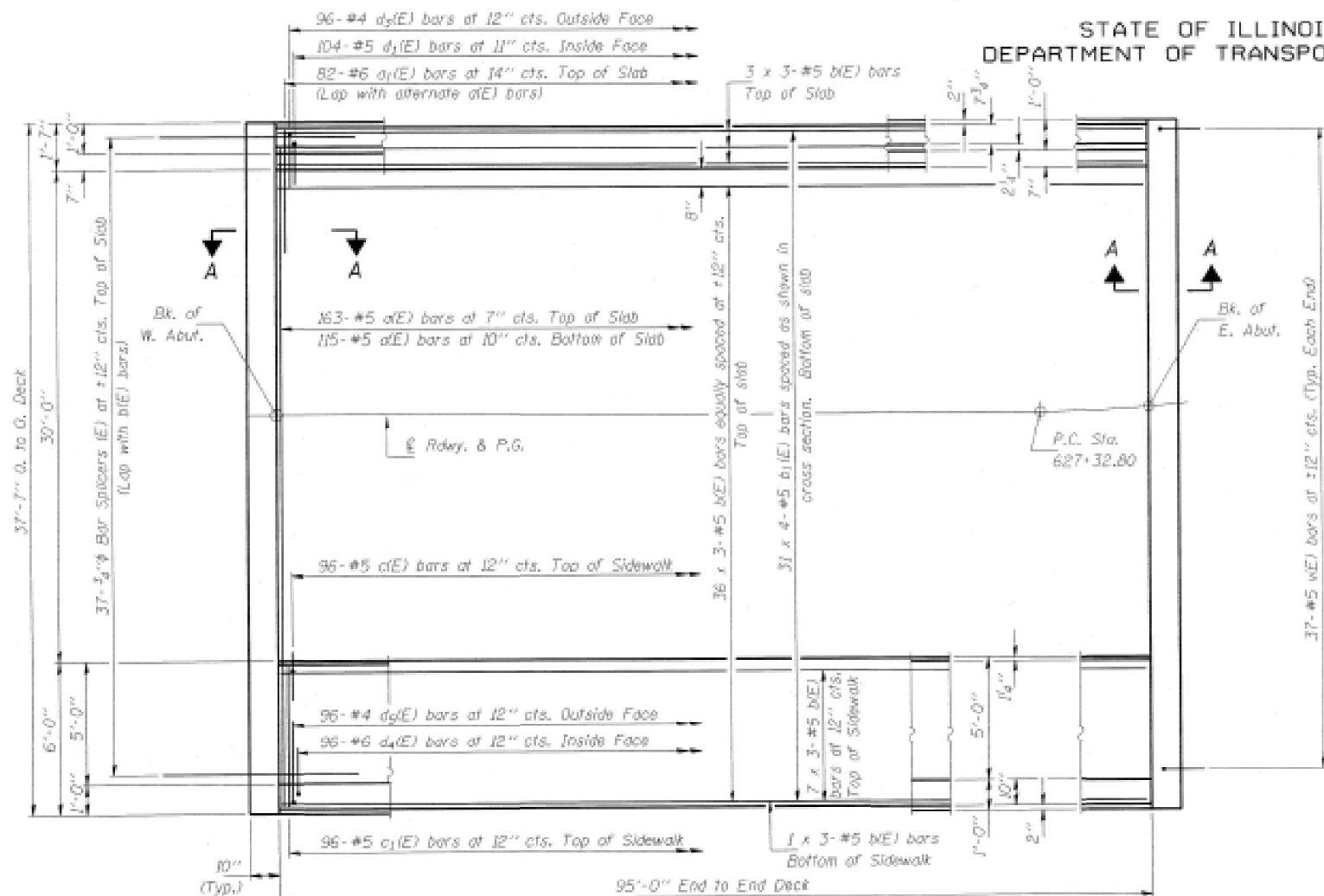


LOCATION SKETCH

OLD U.S. 34 OVER  
 INDIAN CREEK  
 S.B.I. ROUTE 18 - SEC. 198R  
 LaSALLE COUNTY  
 STATION 626+97.00  
 STRUCTURE NO. 050-0233

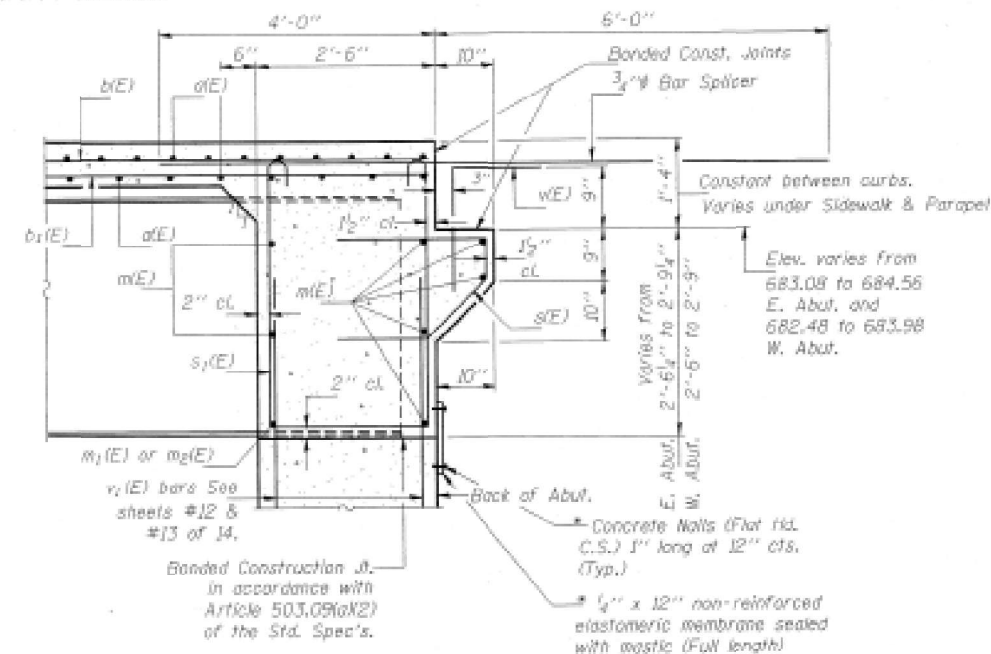
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	STATION	SHEET NO.
S.B.I. 18	BP	LA SALLE		14
SHEET NO. 3				14 SHEETS



PLAN

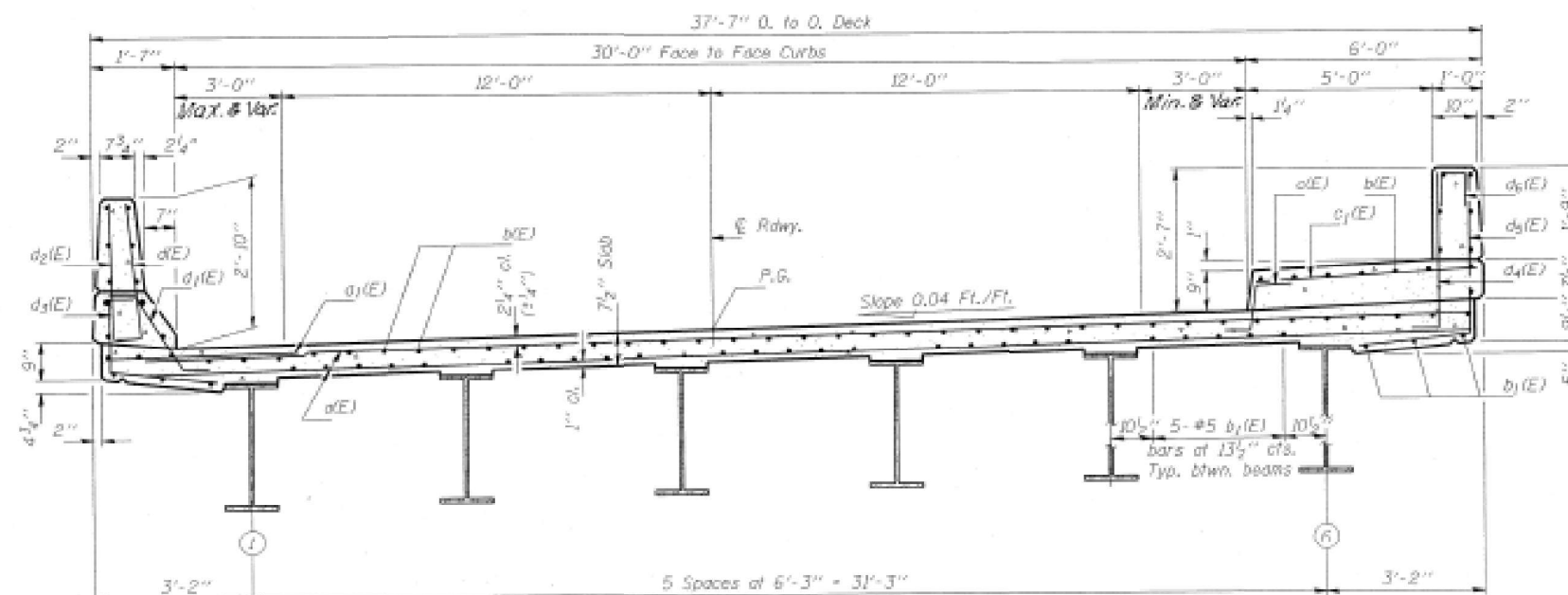
\* Cost is incidental to Concrete Structures.



SECTION A-A AT ABUTMENTS

Notes: See sheet #1 of 14 for Floor Drain spacing.  
See sheets #4 and #5 of 14 for Approach Details.  
See sheet #6 of 14 for Parapet Details and Drain Details.  
See sheet #7 of 14 for Sidewalk Details, Bar Details and Bill of Material.  
See sheet #8 of 14 for Diaphragm Details and Bar Splicer Details.  
See sheet #9 of 14 for Roll Details.  
Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
All edges shall have 3/4" chamfer.

MIN. BAR LAPS  
#5 (E) bars = 2'-2"



CROSS SECTION  
(Looking East)

FOR INFORMATION ONLY

DESIGNED *Paul A. Johnson*  
CHECKED *John F. Schneller Jr.*  
DRAWN *John F. Schneller Jr.*  
CHECKED *PJS 18V*

APPROVED *Ralph E. Anderson*  
PASSED *Ralph E. Anderson*  
SEAL OF PROFESSIONAL ENGINEER

SUPERSTRUCTURE  
S.B.I. RT. 18 SEC. 19BR  
LA SALLE COUNTY  
STA. 626+97.00

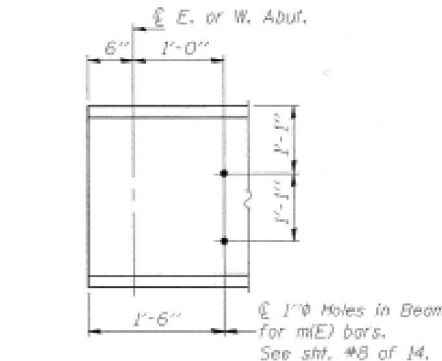
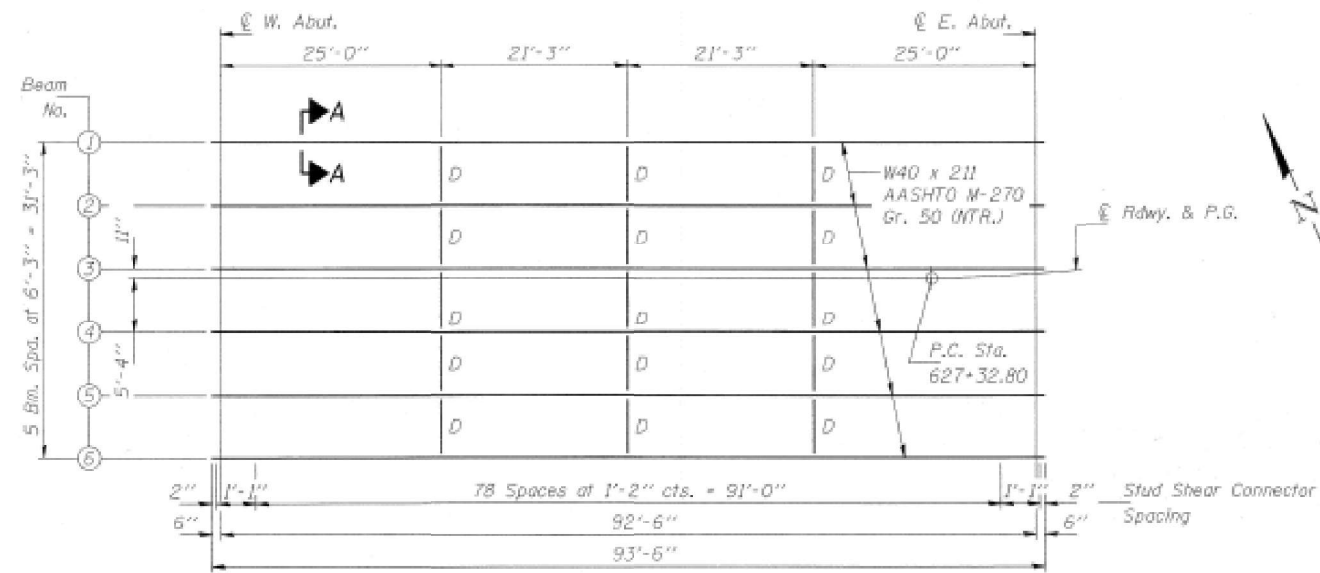
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR  
STRUCTURE NO. 050-0233

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1265	(19BR)BP	LASALLE	8	7
CONTRACT NO. 66M25				

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

ILLINOIS FED. AID PROJECT

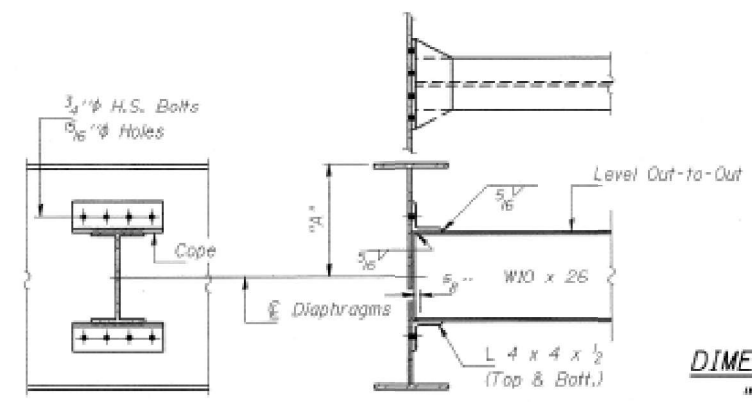


	0.5 Span
Is	(in <sup>4</sup> ) 15,500
Ic (n)	(in <sup>4</sup> ) 32,890
Ic (3n)	(in <sup>4</sup> ) 24,160
Ss	(in <sup>3</sup> ) 785
Sc (n)	(in <sup>3</sup> ) 1,046
Sc (3n)	(in <sup>3</sup> ) 945
φ	(K/Tt.) .839
M <sub>d</sub>	(K) 897
s <sub>d</sub>	(K/Tt.) .343
M <sub>s<sub>d</sub></sub>	(K) 367
M <sub>l</sub>	(K) 789
M (Imp)	(K) 182
M <sub>cr</sub>	(K) 63
SWLL	(K/Tt.) .300
M <sub>swll</sub>	(K) 54
s <sub>2</sub> (M <sub>d</sub> +M (Imp))	(K) 1,618
M <sub>o</sub>	(K) 3,899
f <sub>s</sub> non-comp	(k.s.i.) 13.7
f <sub>s</sub> (comp)	(k.s.i.) 4.7
f <sub>s</sub> s <sub>2</sub> (M <sub>d</sub> +M (Imp))	(k.s.i.) 18.6
f <sub>s</sub> (M <sub>cr</sub> +M <sub>swll</sub> )	(k.s.i.) 1.3
f <sub>s</sub> (Overload)	(k.s.i.) 37.0
f <sub>s</sub> (Total)	(k.s.i.) 49.8
VR	(K) 45.2

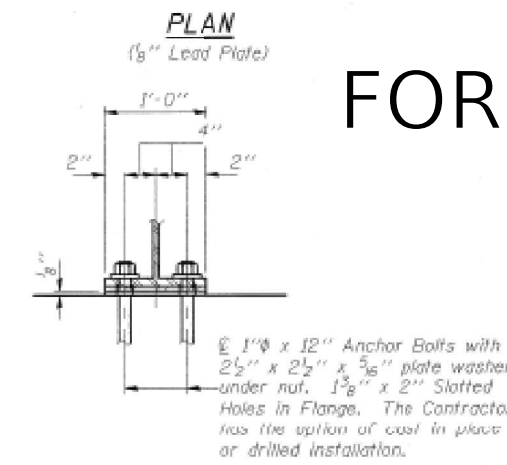
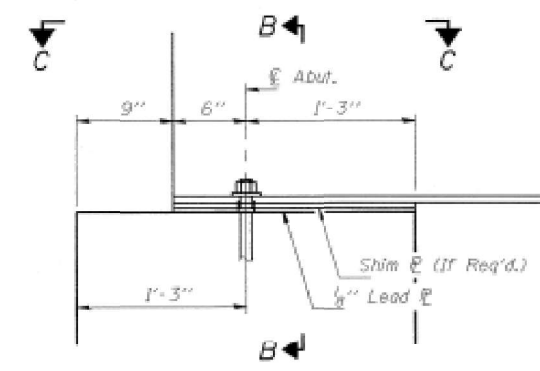
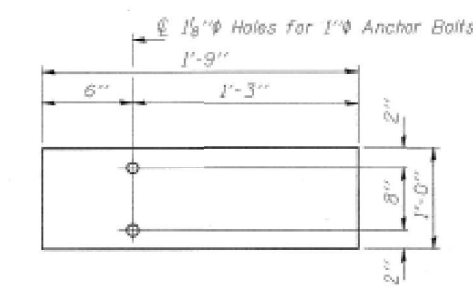
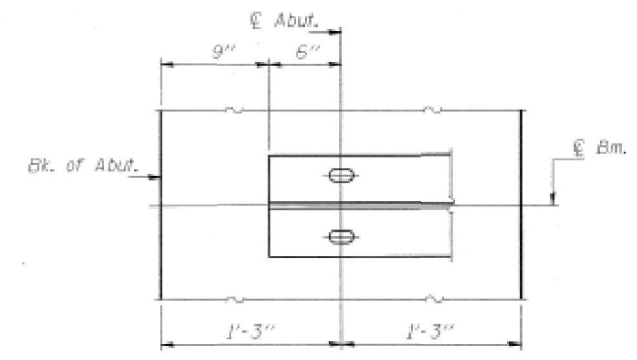
Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total and Overload).  
Ic (n) and Sc (n) are the moment of inertia and section modulus of the composite section for live loads used in computing fs (Total and Overload).  
Ic (3n) and Sc (3n) are the moment of inertia and section modulus of the composite section for superimposed dead loads used in computing fs (Total and Overload).  
M<sub>d</sub> - Moment due to dead loads on non-composite section.  
M<sub>s<sub>d</sub></sub> - Moment due to dead loads on composite section.  
M<sub>l</sub> - Moment due to highway live loads on composite section.  
M (Imp) - Highway Live load impact.  
M<sub>cr</sub> - Moment due to centrifugal force including the effect of superelevation on the composite section.  
M<sub>swll</sub> - Moment due to sidewalk live load on the composite section.  
VR is the maximum highway Live Load + Impact shear range in span.  
M<sub>o</sub> (Applied Moment) = 1.3CM<sub>d</sub> + M<sub>s<sub>d</sub></sub> + M<sub>cr</sub> + M<sub>swll</sub> + s<sub>2</sub>(M<sub>l</sub> + M (Imp)).  
fs (Total) is the sum of the stresses due to 1.3CM<sub>d</sub> + M<sub>s<sub>d</sub></sub> + M<sub>cr</sub> + M<sub>swll</sub> + s<sub>2</sub>(M<sub>l</sub> + M (Imp)).  
fs (Overload) is the sum of the stresses due to M<sub>d</sub> + M<sub>s<sub>d</sub></sub> + s<sub>2</sub>(M<sub>l</sub> + M (Imp)).

R <sub>l</sub>	(K) 54.7
R <sub>t</sub>	(K) 36.8
Imp.	(K) 8.4
R <sub>cr</sub>	(K) 11.0
R <sub>swll</sub>	(K) 2.3
R (Total)	(K) 113.2

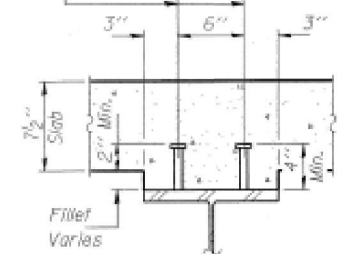
Notes: Two hardened washers shall be required over all 1/16" holes for diaphragms.



Beam No.	Dim. "A"
1	1'-0 3/8"
2	1'-3 3/8"
3	1'-6 3/8"
4	1'-9 3/8"
5	2'-0 3/8"
6	2'-3 3/8"



3/8" Granular or solid flux filled headed studs, conforming to the requirements of Art. 705.32 of the Std. Specs. Automatically end welded to flange, 1972 Req'd.



FOR INFORMATION ONLY

Loc.	Beam #1	Beam #2	Beam #3	Beam #4	Beam #5	Beam #6
W. Abut.	683.27	683.52	683.77	684.02	684.27	684.51
E. Abut.	683.85	684.10	684.35	684.60	684.84	685.08

\*\* For Fabrication Only.

DESIGNED: Paul A. Johnson  
CHECKED: [Signature]  
DRAWN: John F. Schneller Jr.  
CHECKED: PST 06V

Sept. 26, 1994  
EXAMINED: [Signature]  
PASSED: Ralph E. Anderson

STRUCTURAL STEEL  
S.B.I. RT. 18 SEC. 19BR  
LA SALLE COUNTY  
STA. 626+97.00

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