

# PROPOSED HIGHWAY PLANS

FAI ROUTE 74 (I-74)  
SECTION (57-17)BDR,I  
PROJECT ACNHPP-0074 (305)  
BRIDGE DECK REPAIR GUARDRAIL  
MCLEAN COUNTY

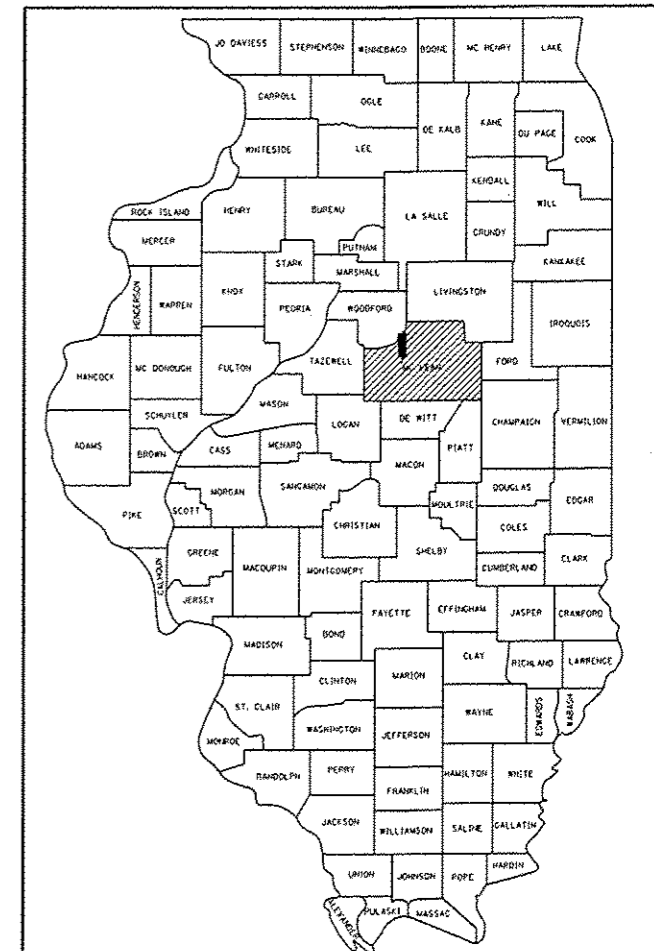
C-95-033-15

UNDER CARLOCK RD & TR 76

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	1
		ILLINOIS	CONTRACT NO. 70B33	

\*36+1 = 37

D95-033-15



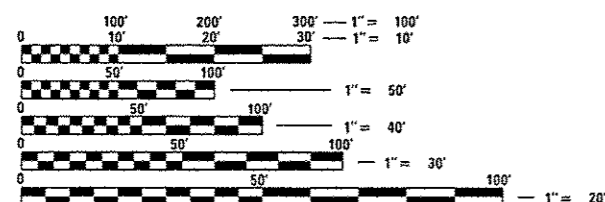
LOCATION OF SECTION INDICATED THUS: —■—

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

**STRUCTURES**  
S.N. 057-0102:  
DECK REPAIR/GUARDRAIL  
S.N. 057-0113:  
GUARDRAIL REPLACEMENT

**DESIGN DESIGNATION**  
N/A

CURRENT ADT: (2015)  
S.N. 057-0102 - 1650  
S.N. 057-0113 - 400

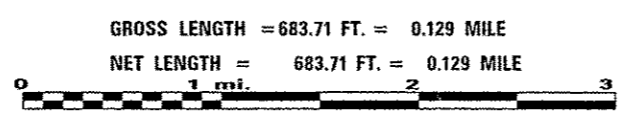
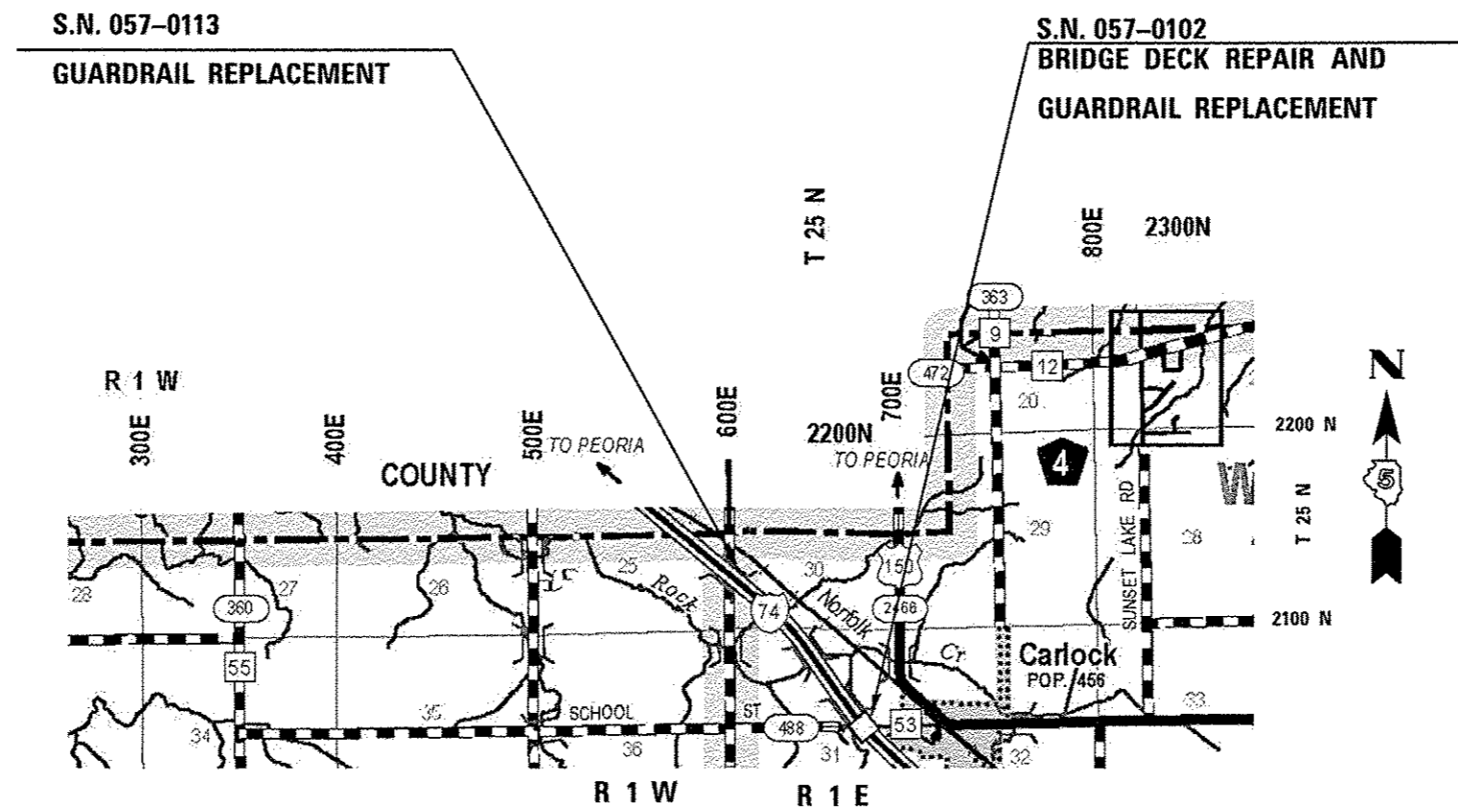


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER JASON STULTS 217-466-7364  
PROJECT MANAGER MICHAEL LEROY 217-466-7228

CONTRACT NO. 70B33



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED January 28, 2016  
Kenneth A. Barnatt  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 18, 2016  
Maurice M. Addis, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

March 18, 2016  
Omer Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS / HIGHWAY STANDARDS
3	GENERAL NOTES
4-6	SUMMARY OF QUANTITIES
7	SCHEDULE OF QUANTITIES
8	PLAN AND PROFILE S. N. 057-0102
9	EXISTING AND PROPOSED TYPICALS
10	STAGING DETAILS
11	TEMPORARY CONCRETE BARRIER LAYOUT
12	EXPANSION JOINT REMOVAL AND REPLACEMENT DETAIL
13	WEARING SURFACE REMOVAL AND REPLACEMENT DETAIL
14	STRUCTURAL REPAIR OF CONCRETE DETAIL
15-18	BRIDGE DECK PATCHING DETAIL
19	FLOOR DRAIN DETAILS
20	SCHEDULE OF FULL DEPTH PATCHING
21	EAST ABUTMENT SLOPE WALL REPAIR DETAIL
22-23A	BEARING REPLACEMENT DETAILS
24-31	AS BUILT PLANS ( INFORMATION ONLY)
32-35	WIDTH RESTRICTION SIGNING
36	TRAFFIC BARRIWER TERMINAL TYPE 6A (MODIFIED) MOUNTING DETAILS

## HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-15	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-05	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

FILE NAME =	USER NAME = piersonb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\v\l\204EBID\INTEG\illinois.gov\FWIDOT\Documents\DOT Offices\District 5\Projects\057\DRAWING\data\Design\057\8833-elt-gannett	DRAWN	REVISED	REVISED			74	(57-17)BDR,I	MCLEAN	36	2
PLOT SCALE = 48.0000" / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70B33				
PLOT DATE = 1/27/2016	DATE -	REVISED -	REVISED -			[ILLINOIS] FED. AID PROJECT				
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.		

## GENERAL NOTES

G. N. -100  
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G. N. -1004.01  
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G. N. -100A  
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G. N. -105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G. N. -105.07B  
EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES MAY BE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL SECURE AN APPROVED LOCATING FIRM TO LOCATE STATE-OWNED UTILITIES PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES IN ACCORDANCE TO SECTION 803 OF THE STANDARD SPECIFICATIONS. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G. N. -406  
THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G. N. -406H

### MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location	IL 32	IL 32
Mixture Use	SURFACE	BASE COURSE OPTION
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 19.0
Friction Aggregate	MIX C	N. A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N. A.	N. A.

NO COMMITMENTS

FILE NAME =	USER NAME = p1ersomb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\184\BID\INTEG\Illinois.gov\FW\DOT\No	\Users\1007\Office\District 5\Projects\057	DRAWN	REVISED			74	(57-17)BDR.	MCLEAN	36	3	
PLOT SCALE = 1/2" = 100'	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70B33		ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/27/2016	DATE -	REVISED -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

## SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAI 74 (I 74)	FAI 74 (I 74)
MCLEAN COUNTY	MCLEAN COUNTY
S.N. 057-0102	S.N. 057-0113
STA. 1535+92.53	STA. 255+45.00
RURAL 2-LANE	RURAL 2-LANE
90% FEDERAL	90% FEDERAL
10% STATE	10% STATE
0014	0021

FUNDING:

CONSTRUCTION TYPE CODE:

CODE NO.	PAY ITEM	UNIT	TOTAL	QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	35.0	35.00	
28100107	STONE RIPRAP, CLASS A4	SQ YD	22.0	22.0	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	103.0	103.0	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	110.0	110.0	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	315.0	315.0	
44004250	PAVED SHOULDER REMOVAL	SQ YD	228.0	228.0	
50102400	CONCRETE REMOVAL	CU YD	4.8	4.8	
50104650	SLOPE WALL REMOVAL	SQ YD	22.0	22.0	
50157300	PROTECTIVE SHIELD	SQ YD	397.0	397.0	
50300100	FLOOR DRAINS	EACH	12.0	12.0	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.8	4.8	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	2710.0	2710.0	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	675.0	675.0	
50800515	BAR SPLICERS	EACH	12.0	12.0	

14 • SPECIALTY ITEMS

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.I. RTE. 74	SECTION 15T-171BDRJ	COUNTY MCLEAN	TOTAL SHEETS 36	SHEET NO. 4
pl\11\1884\CB\INTEG\11\inois.gov\FW100T\0	umanta\IDOT Offices\District 5\Projects\057	DR\AW\057\057\057\057\057\057\057\057	DR\AW\057\057\057\057\057\057\057\057		SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.					
	PLOT SCALE = 42.82828 1 / in.	CHECKED -	REVISED -							
	PLOT DATE = 1/28/2016	DATE -	REVISED -							

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAI 74 (1 74)	FAI 74 (1 74)
MCLEAN COUNTY	MCLEAN COUNTY
S.N. 057-0102	S.N. 057-0113
STA. 1535+92.53	STA. 255+45.00
RURAL 2-LANE	RURAL 2-LANE
90% FEDERAL	90% FEDERAL
10% STATE	10% STATE
0014	0021

FUNDING:

CONSTRUCTION TYPE CODE:

52100120	FURNISHING ELASTOMERIC BEARING ASSEMBLY, TYPE 11	EACH	12.0	12.0	
52100520	ANCHOR BOLTS, 1"	EACH	24.0	24.0	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	910.0	910.0	
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1300.0	1025.0	275.0
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8.0	4.0	4.0
63200310	GUARDRAIL REMOVAL	FOOT	1905.0	1321.0	584.0
67100100	MOBILIZATION	L SUM	1.0	0.9	0.1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0	1.0	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0	1.0	
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	3000.0	3000.0	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1000.0	1000.0	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600.0	600.0	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	600.0	600.0	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0	2.0	

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\* SPECIALTY ITEMS

LOCATION OF WORK:

SUMMARY OF QUANTITIES

FAI 74 (I 74) FAI 74 (I 74)  
 MCLEAN COUNTY MCLEAN COUNTY  
 S. N. 057-0102 S. N. 057-0113  
 STA. 1535+92.53 STA. 255+45.00  
 RURAL 2-LANE RURAL 2-LANE  
 90% FEDERAL 90% FEDERAL  
 10% STATE 10% STATE  
 0014 0021

FUNDING:

CONSTRUCTION TYPE CODE:

CODE NO.	PAY ITEM	UNIT	TOTAL	QUANTITY	QUANTITY
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0	2.0	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8.0	4.0	4.0
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	27.0	19.0	8.0
X6310188	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	8.0	4.0	4.0
X7200201	WIDTH RESTRICTION SIGNING	LSUM	1.0	1.0	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12.0	12.0	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	720.0	720.0	
Z0002900	BASE COURSE (OPTION)	SO YD	228.0	228.0	
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	902.0	902.0	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	11.6	11.6	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1.0	1.0	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	9.9	9.9	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE III)	SO YD	105.5	105.5	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	45.0	45.0	
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	68.0	68.0	
Z0041895	POLYMER CONCRETE	CU FT	10.0	10.0	

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• SPECIALTY ITEMS

# SCHEDULE OF QUANTITIES

## STEEL PLATE BEAM GUARDRAIL AND TERMINALS

STATION TO STATION			GUARDRAIL REMOVAL 63200310 FOOT	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 63000001 FOOT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 63100167 EACH	TRAFFIC BARRIER TERMINAL TYPE 6A (MODIFIED) X6310188 EACH	TERMINAL MARKER DIRECT APPLIED 72501000 EACH	GUARDRAIL REFLECTORS TYPE A 78200005 EACH
S.N. 057-0102								
STATION	TO	STATION*						
42+28.23		45+49.23	246	175	1	1	1	4
42+28.23		45+49.23	246	175	1	1	1	5
39+32.98		34+56.98	401	325	1	1	1	5
39+32.98		34+29.98	428	350	1	1	1	5
TOTAL								
S.N. 057-0113								
60+68.00		63+07.00	164	87.5	1	1	1	2
60+92.00		63+31.00	164	87.5	1	1	1	2
56+30.00		54+39.00	116	37.5	1	1	1	2
56+61.00		54+46.00	140	62.5	1	1	1	2
TOTAL			1905	1300	8	8	8	27

\*STATIONS WILL VARY, TAKEN FROM AS BUILT PLANS. CONTRACTOR TO VERIFY BEFORE REMOVAL

## EXCAVATION AND PAVEMENT REMOVAL

STATION	STATION	LENGTH	WIDTH	PAVED SHOULDER REMOVAL 20200100		EARTH EXCAVATION 44004250	
				SQ YD	DEPTH	CU YD	DEPTH
37+50.00	TO 39+19.75	169.75	3	56.58			
42+15.04	TO 43+84.79	169.75	3	56.58			
37+71.65	TO 39+43.99	172.34	3	57.45			
42+39.28	TO 44+09.04	169.76	3	56.59			
37+50.00	TO 39+19.75	169.75	3	56.58	5.50	8.64	
42+15.04	TO 43+84.79	169.75	3	56.58	5.50	8.64	
37+71.65	TO 39+43.99	172.34	3	57.45	5.50	8.78	
42+39.28	TO 44+09.04	169.76	3	56.59	5.50	8.65	
TOTAL				227.20		34.71	
USE				228.00		35.00	

## BASE COURSE (OPTION)

STATION	STATION	LENGTH	WIDTH	BASE COURSE (OPTION) Z0002900		BITUMINOUS MATERIALS (TACK COAT) 40600290	
				SQ YD	DEPTH	POUNDS	DEPTH
37+50.00	TO 39+19.75	169.75	3	56.58		25.46	
42+15.04	TO 43+84.79	169.75	3	56.58		25.46	
37+71.65	TO 39+43.99	172.34	3	57.45		25.85	
42+39.28	TO 44+09.04	169.76	3	56.59		25.46	
37+50.00	TO 39+19.75	169.75	3	56.58	5.50	25.46	
42+15.04	TO 43+84.79	169.75	3	56.58	5.50	25.46	
37+71.65	TO 39+43.99	172.34	3	57.45	5.50	25.85	
42+39.28	TO 44+09.04	169.76	3	56.59	5.50	25.46	
TOTAL				227.20		102.24	
USE				228.00		103.00	

STRUCTURE 057-0102 WAS BUILT IN 1964, SECTION 57-17HB-3 AT STATION 1535+92.53 BY THE STATE OF ILLINOIS IN MCLEAN COUNTY. THE STRUCTURE RECEIVED B-SMART REPAIRS IN 1994, SECTION (57-17HB-3).

THE STRUCTURE IS A FOUR SPAN, 7" THICK REINFORCED CONCRETE DECK WITH AN 1 1/2" HMA WEARING SURFACE, STRINGER/MULTI-BEAM/GIRDER BRIDGE ON SPREAD FOOTINGS SUPPORTED PIERS AND CONCRETE PILE SUPPORTED ABUTMENTS WITH A BACK-TO-BACK ABUTMENT LENGTH OF 295'-3 1/2", AN OUT-TO-OUT WIDTH OF 34'-0", A BRIDGE ROADWAY WIDTH OF 28'-0" AND AN APPROACH ROADWAY WIDTH OF 22'-0". THE STRUCTURE IS ON A 49°-6'-33" RIGHT-FORWARD SKEW.

METHOD OF CONSTRUCTION: STAGE CONSTRUCTION UTILIZING TC&P STANDARD 701321



*David Carl Puzey 3/2/16  
Expires 11/30/16*

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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.

SEE SPECIAL PROVISION "DECK SLAB REPAIR" FOR ADDITIONAL REQUIREMENTS PERTAINING TO DECK SLAB REPAIR.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH DECK SLAB REPAIR.

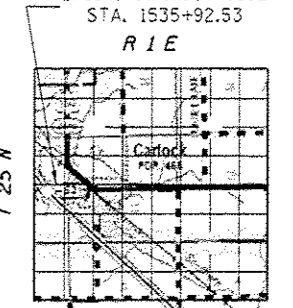
AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

S.N. 057-0102 HAS BEEN DETERMINED NOT TO CONTAIN ASBESTOS IN THE BITUMINOUS WEARING SURFACE OR WATERPROOFING MEMBRANE.

**INDEX OF SHEETS**

1. General Plan and Elevation
2. Deck Cross Sections
- 3.-4. Typical Staging Construction Detail
5. Joint Replacement Details
- 6.-7. Wearing Surface Plan
7. Structural Repair of Concrete Detail
- 8.-11. Bridge Deck Patching Details
12. Floor Drain Details
13. Schedules of Patching
14. Slope Wall Repair Detail
- 15.-16. Bearing & Diaphragm Replacement Sheets
- 17.-24. As-Built Plans

EXIST. S.N. 057-0102  
STA. 1535+92.53



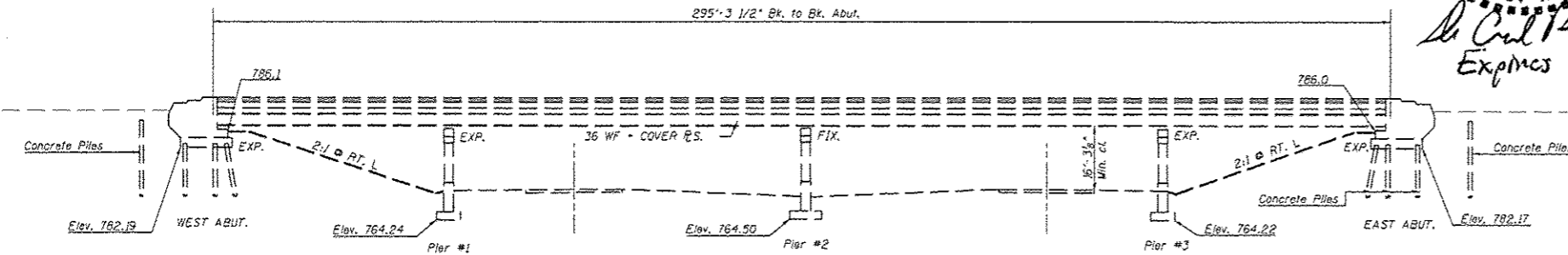
**LOCATION SKETCH**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Stone Rip Rap, Class A4	Sq. Yd.	22.0
Hot-Mix Asphalt Surf. Crse. Mix "C" N50	Ton	110.0
Hot-Mix Asphalt Surface Removal, 2"	Sq. Yd.	315.0
Concrete Removal	Cu. Yd.	4.8
Slope Wall Removal	Sq. Yd.	22.0
Protective Shield	Sq. Yd.	397.0
Floor Drains	Each	12.0
Concrete Superstructure	Cu. Yd.	4.8
Furnish & Erect Structural Steel	Pound	2,710.0
Reinforcement Bars Epoxy Coated	Pound	675.0
Bar Splicers	Each	12.0
Elastomeric Bearing Assembly Type II	Each	12.0
Anchor Bolts 1"Ø	Each	24.0
Waterproofing Membrane System	Sq. Yd.	910.0
Jack and Remove Existing Bearings	Each	12.0
Structural Steel Removal	Pound	720.0
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	902.0
Structural Repair of Concrete 1/2" 5"	Sq. Ft.	11.6
Deck Slab Repair, FD Type 1	Sq. Yd.	9.9
Deck Slab Repair, FD Type 2	Sq. Yd.	105.5
Deck Slab Repair, Partial Depth	Sq. Yd.	45.0
Silicone Joint Sealer, 2"	Foot	68.0
Base Course Option	Sq. Yd.	228.0
Polymer Concrete	Cu. Ft.	10.0

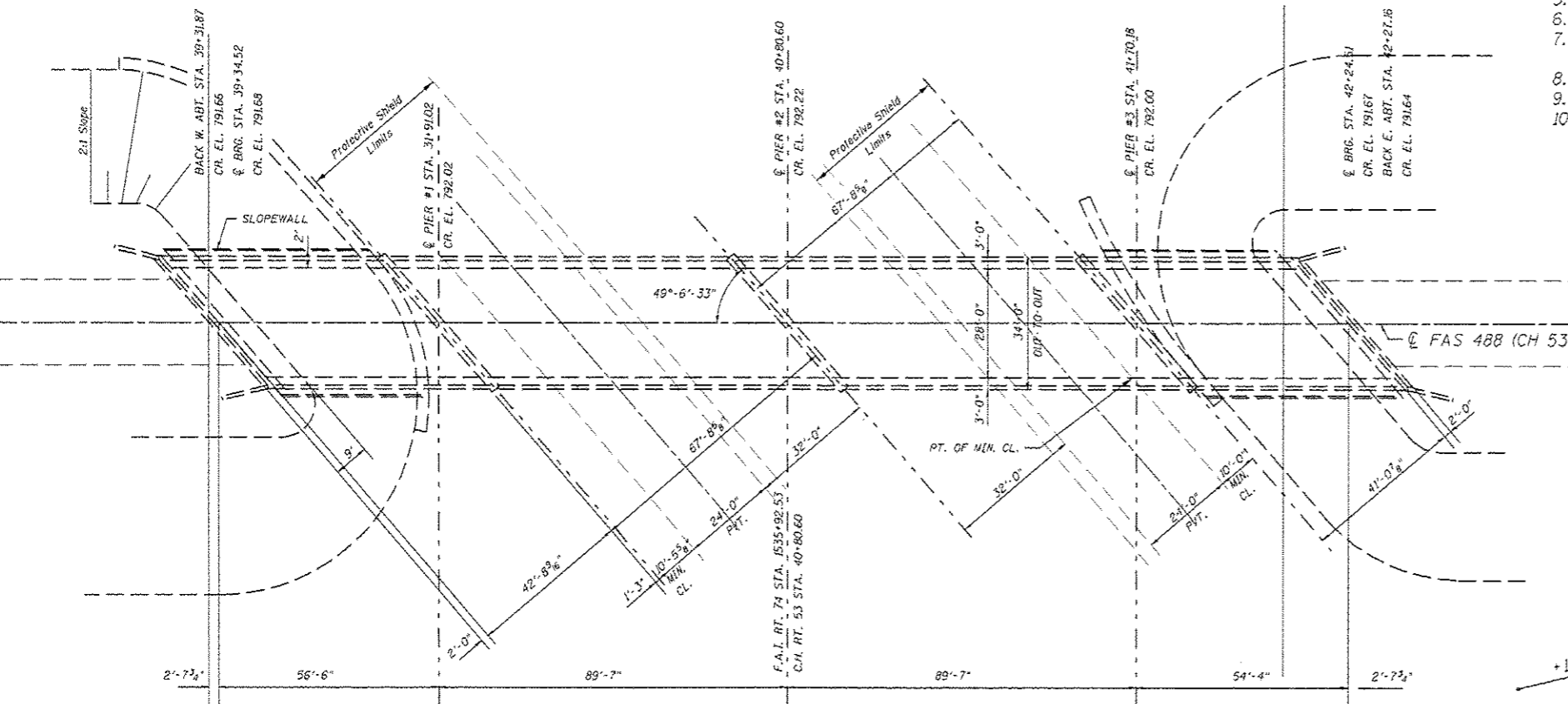
**PROPOSED WORK**

1. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface from bridge deck and approach pavements.
2. Perform Deck Slab repair.
3. Remove and Replace Select Floor Drains.
4. Remove Existing Joints.
5. Perform Structural Concrete Repair.
6. Remove and Replace Existing Elastomeric Bearings and select Diaphragms.
7. Place Polymer Concrete.
8. Place Waterproofing Membrane System.
9. Place HMA Surface on Deck & Approach Pavements.
10. Place Silicone Joint Sealer.



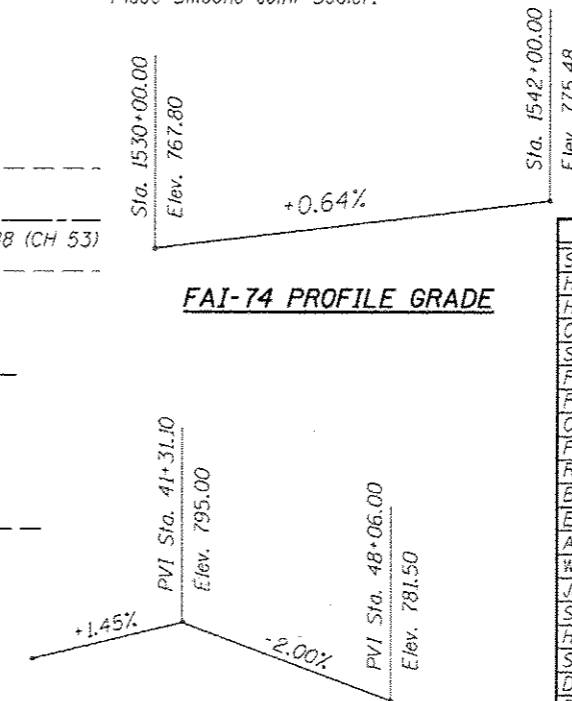
**ELEVATION**

ELEVATIONS TAKEN FROM AS-BUILT PLANS AND ARE SHOWN FOR PERSPECTIVE ONLY.



**PLAN**

**FAI-74 PROFILE GRADE**



**C.H. 53 PROFILE GRADE (LOOKING NORTH)**

FILE NAME =	USER NAME = ppersonr	DESIGNED = JWS	REVISED =
PROJECT = 057-0102	DATE = 1/27/2016	CHECKED = ECC	REVISED =
SCALE = 1/2" = 10'	DATE =		REVISED =

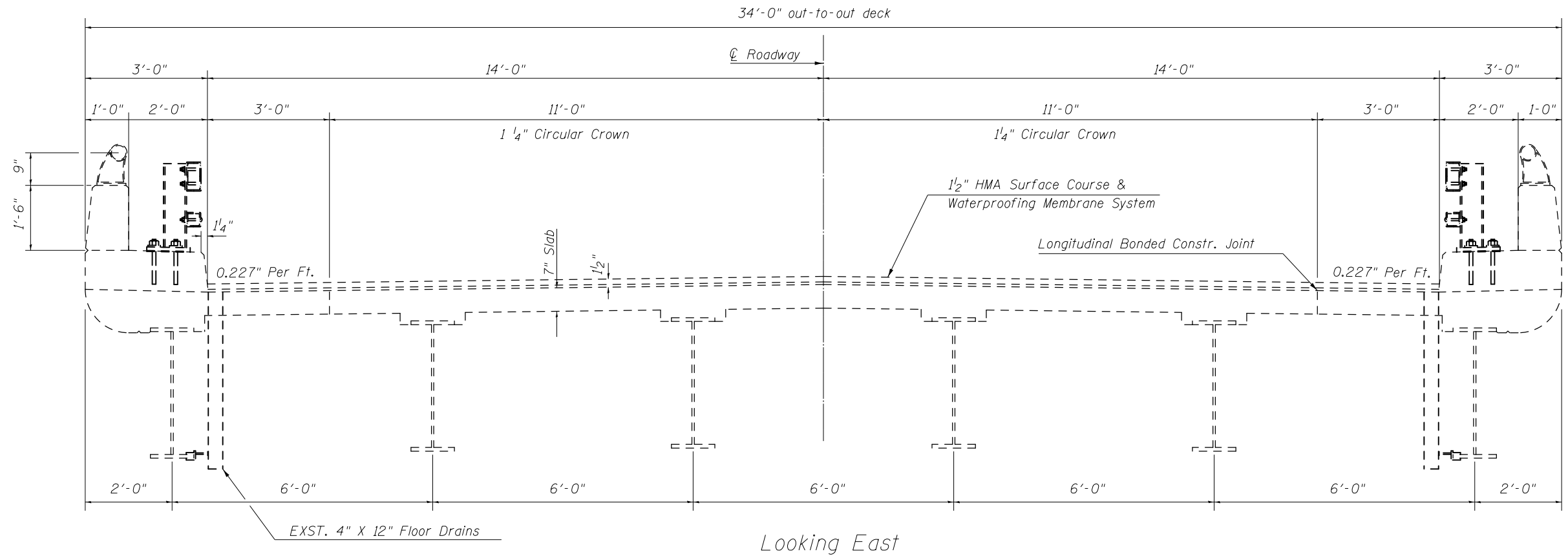
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
S.N. 057-0102  
SCALE: 1" = 20' SHEET NO. 1 OF 16 SHEETS STA. TO STA.

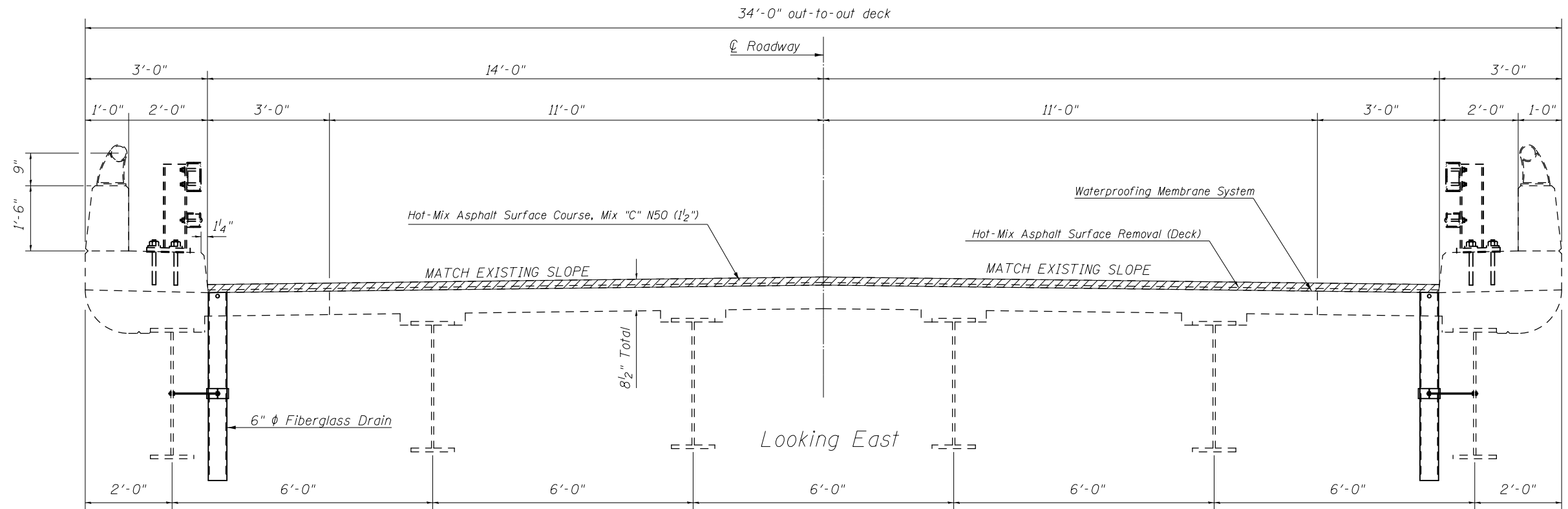
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR.1	MCLEAN	36	8
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				



# EXISTING TYPICAL CROSS SECTION

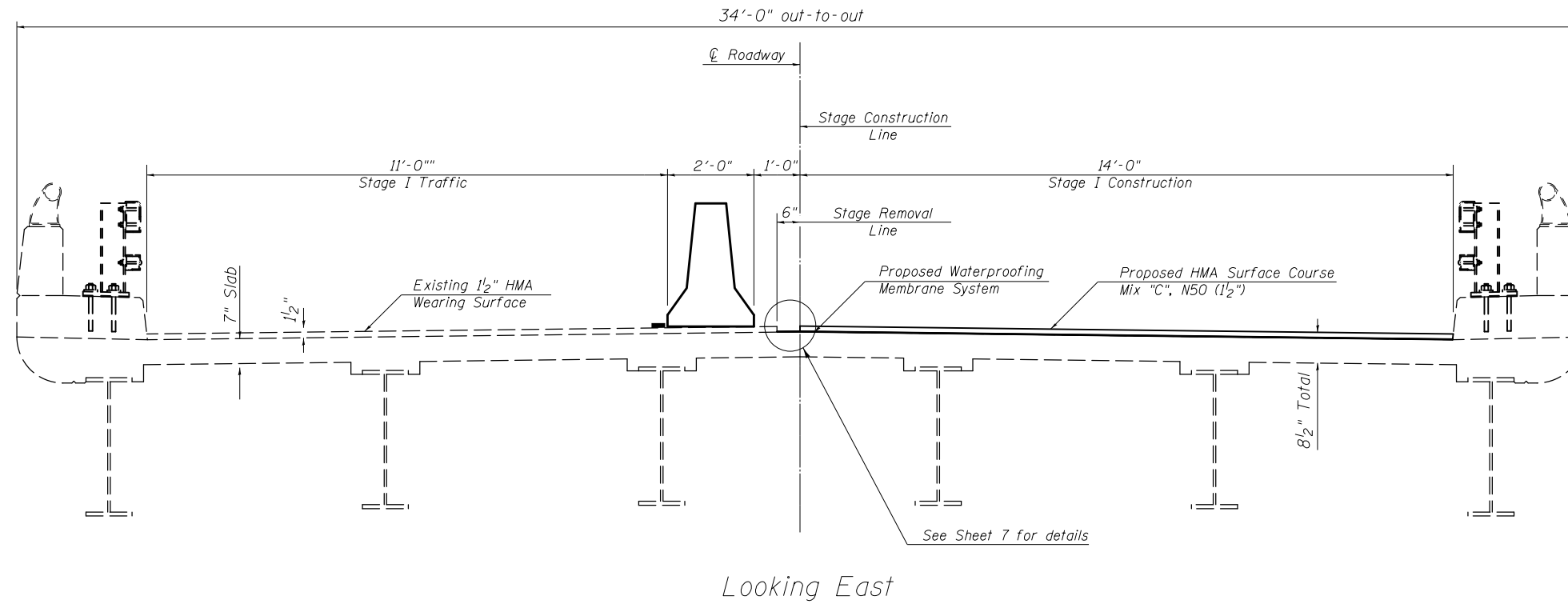


# PROPOSED TYPICAL CROSS SECTION

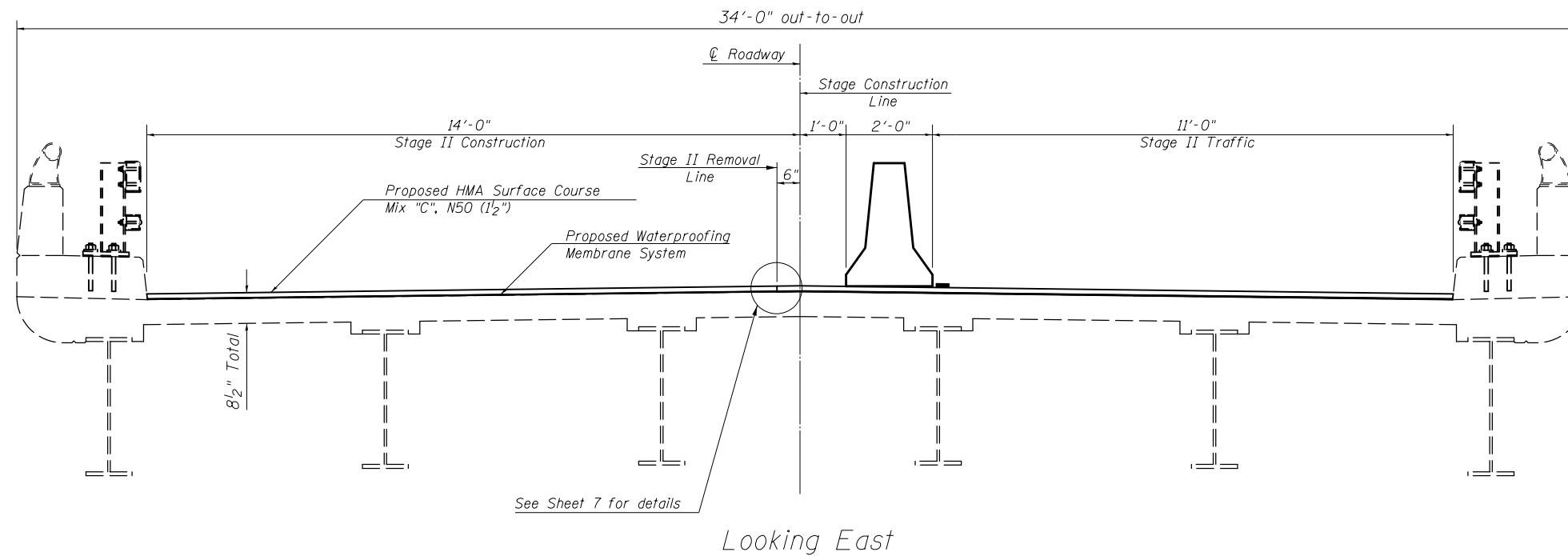


FILE NAME =	USER NAME = piersonbr	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DECK CROSS SECTIONS S.N. 057-0102</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								74	(57-17)BDR,I	MCLEAN	36	9
								CONTRACT NO. 70B33				
						SCALE: NONE	SHEET NO. 2 OF 16 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	

## STAGE I CONSTRUCTION DETAIL

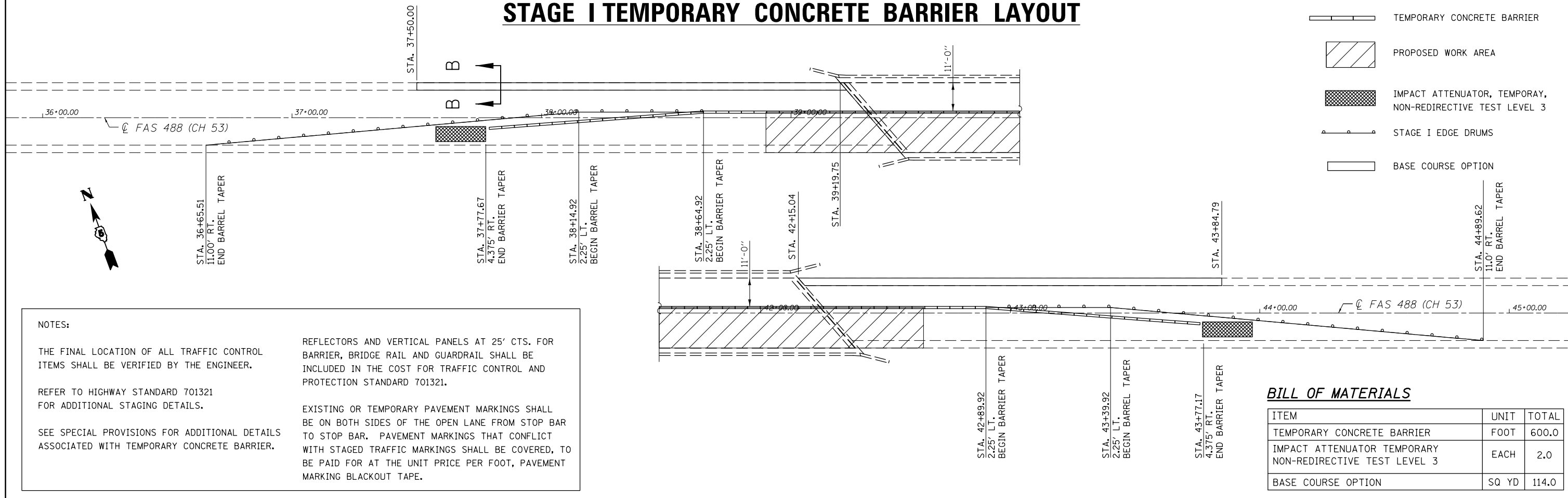


## STAGE II CONSTRUCTION DETAIL

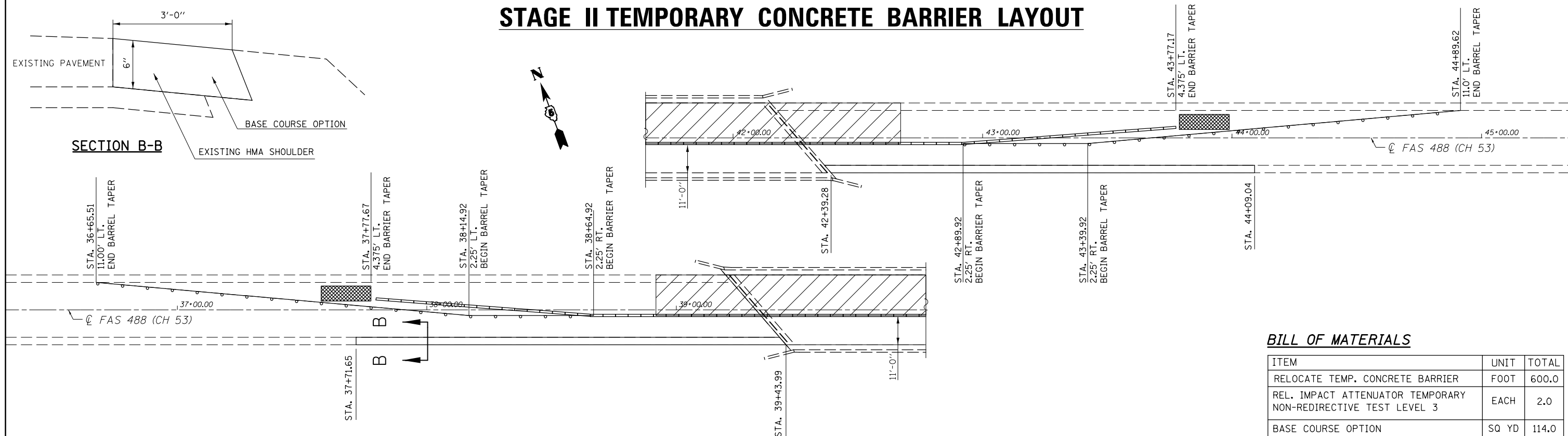


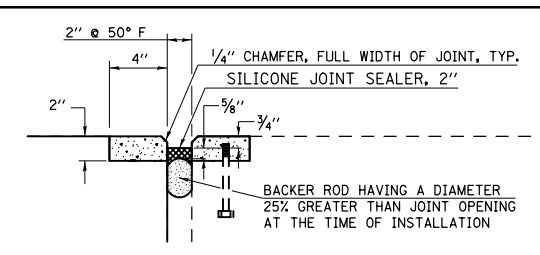
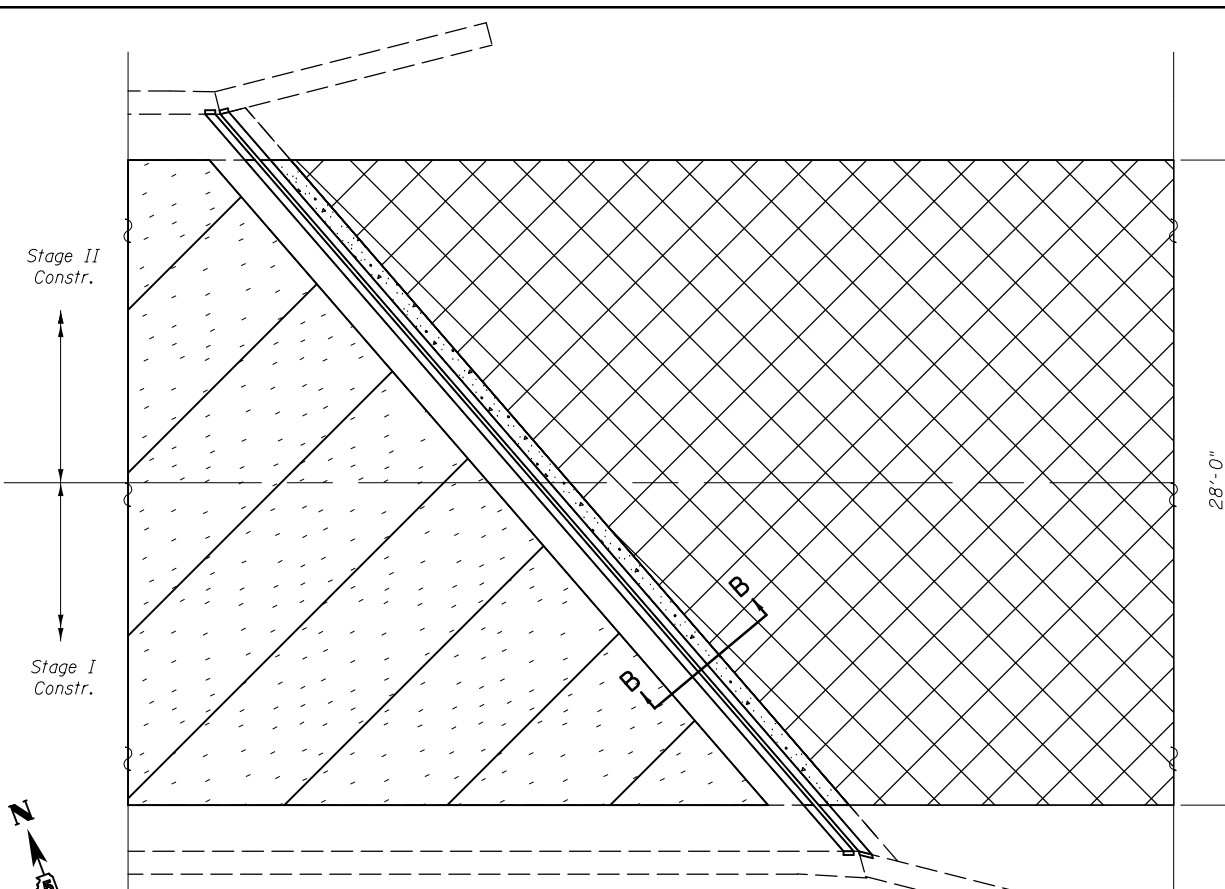
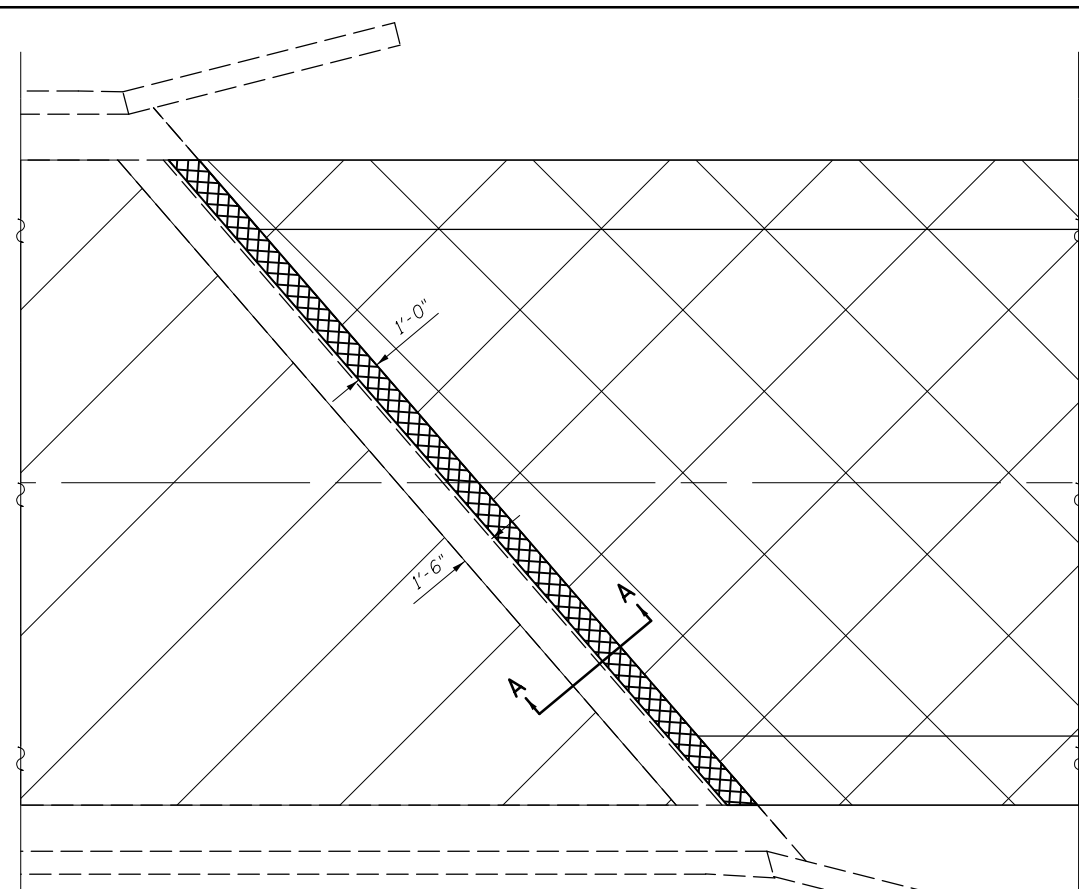
FILE NAME =	USER NAME = piersonbr	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL STAGING CONSTRUCTION DETAIL</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05774\Drawings\Design\3833- Repair Plans.dgn		DRAWN - JMS	REVISED -		S.N. 057-0102	74	(57-17)BDR.I	MCLEAN	36	10		
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	REVISOR -		SCALE: NONE	SHEET NO. 3 OF 16 SHEETS	STA.	TO STA.	CONTRACT NO. 70B33			
PLOT DATE = 1/27/2016	DATE - 012915	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							

# STAGE I TEMPORARY CONCRETE BARRIER LAYOUT

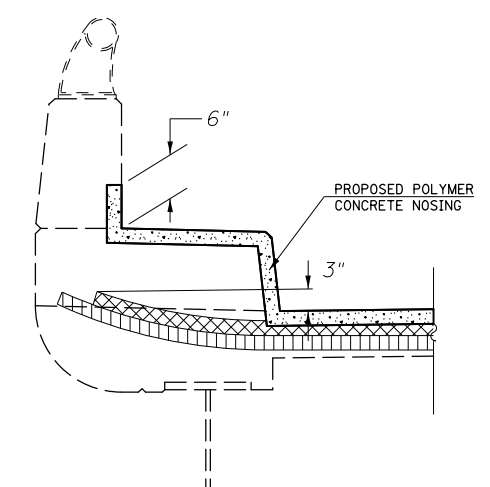


# STAGE II TEMPORARY CONCRETE BARRIER LAYOUT

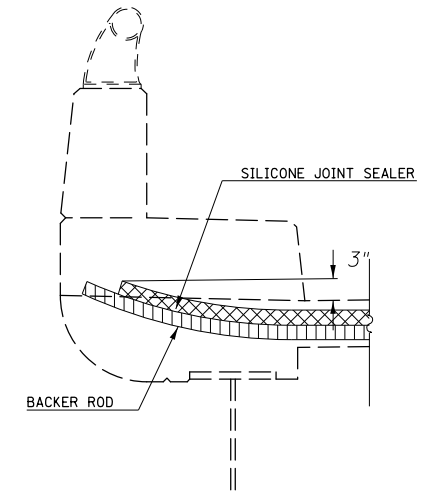




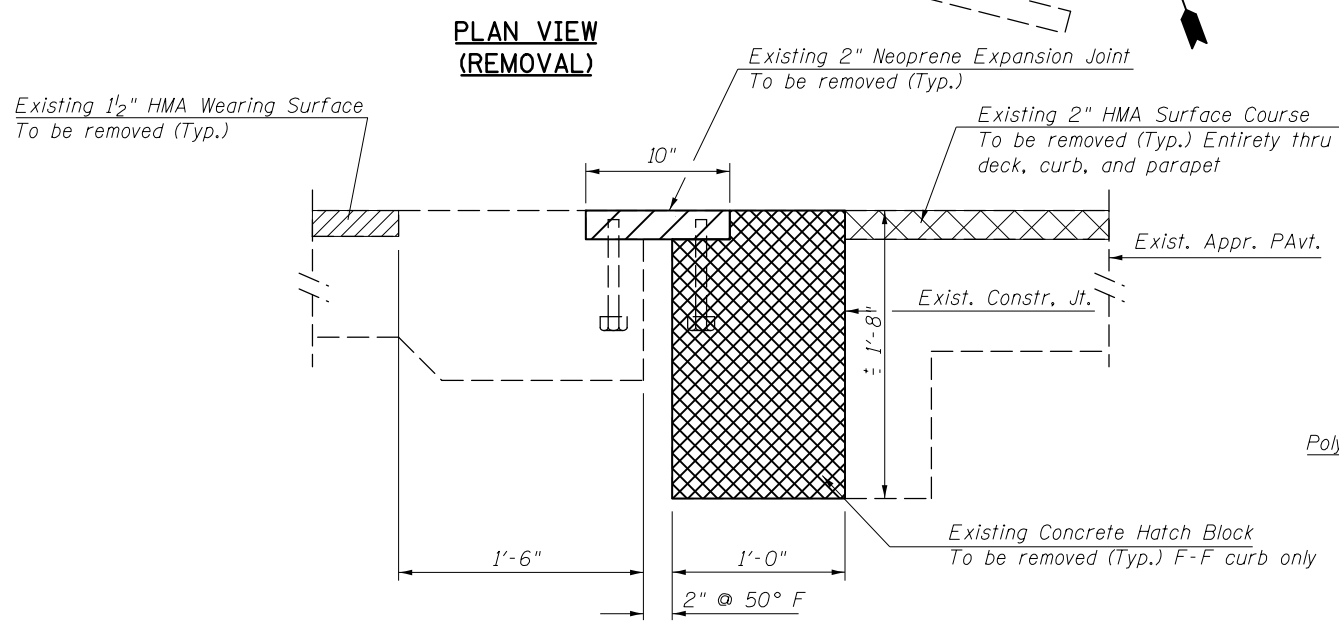
**SECTION AT JOINT (PROPOSED)**



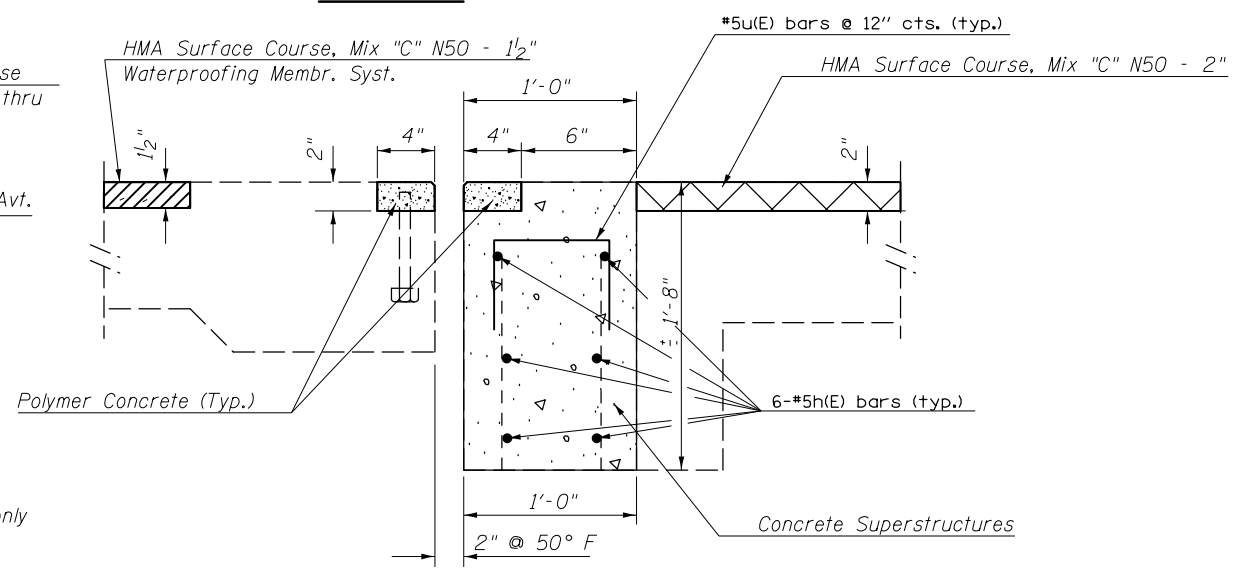
**SECTION AT PARAPET  
POLYMER CONCRETE NOSING**



**SECTION AT PARAPET  
SILICONE JOINT SEALER**



**A-A REMOVAL OF EXISTING JOINT  
AT ABUTMENTS (EAST AND WEST SIMILAR)**



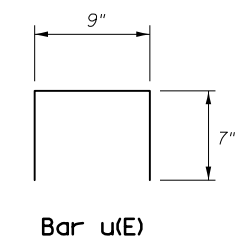
**B-B PROPOSED SECTION AT ABUTMENT  
(EAST & WEST SIMILAR)**

**NOTES**

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

COST OF RE-ATTACHMENT OF EXISTING RAIL INCLUDED WITH CONCRETE SUPERSTRUCTURE.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

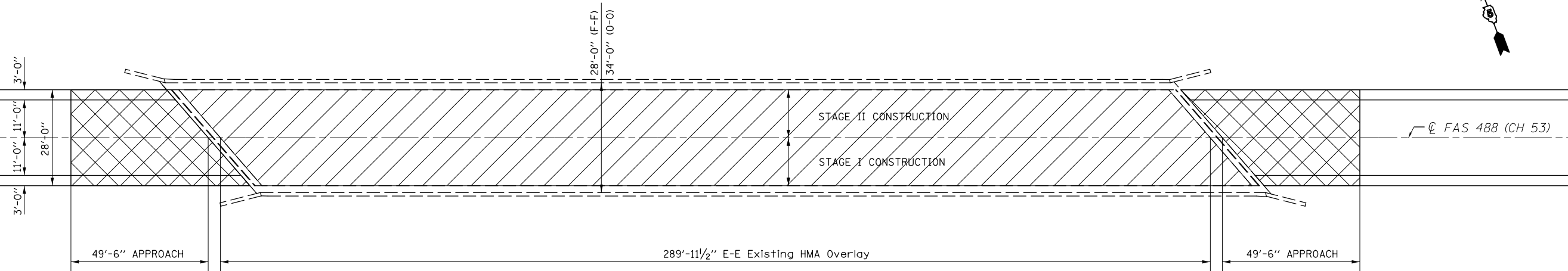


**Bar u(E)**

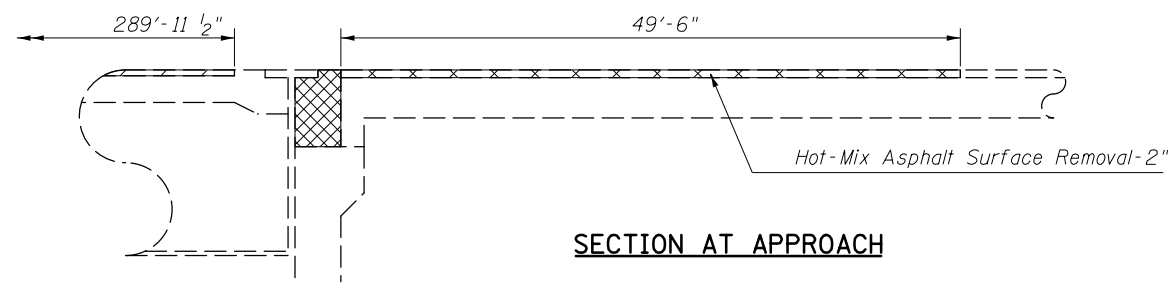
**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE	
h(E)	24	#5	21'-0"	—	
u(E)	74	#5	1'-11"	└┘	
CONCRETE REMOVAL				CU YD	4.8
CONCRETE SUPERSTRUCTURE				CU YD	4.8
SILICONE JOINT SEALER, 2"				CU FT	68.0
POLYMER CONCRETE				CU FT	10.0
REINF. BARS EPOXY CTD.				POUND	675.0
BAR SPLICERS				EACH	12.0

# WEARING SURFACE REMOVAL PLAN



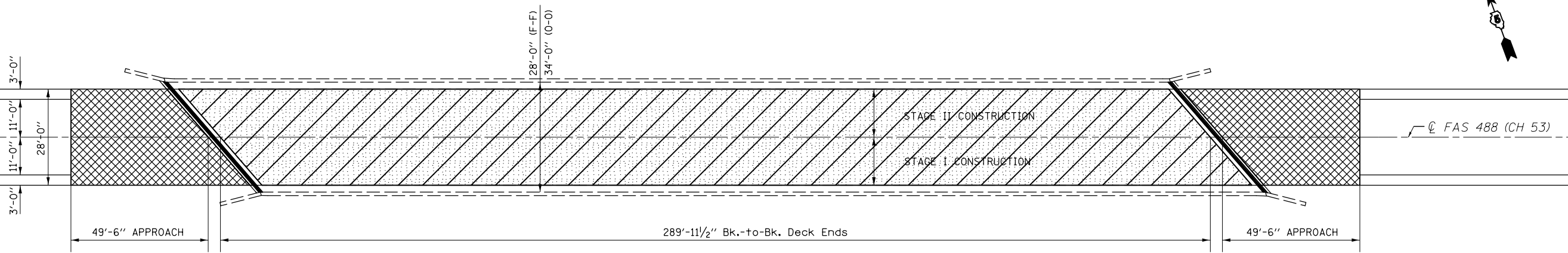
**PLAN VIEW**



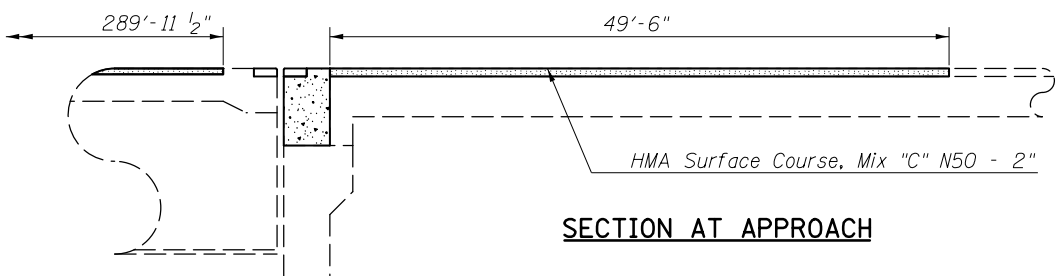
**SECTION AT APPROACH**

- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- HOT-MIX ASPHALT SURFACE REMOVAL (DECK)

# WEARING SURFACE PLACEMENT PLAN



**PLAN VIEW**

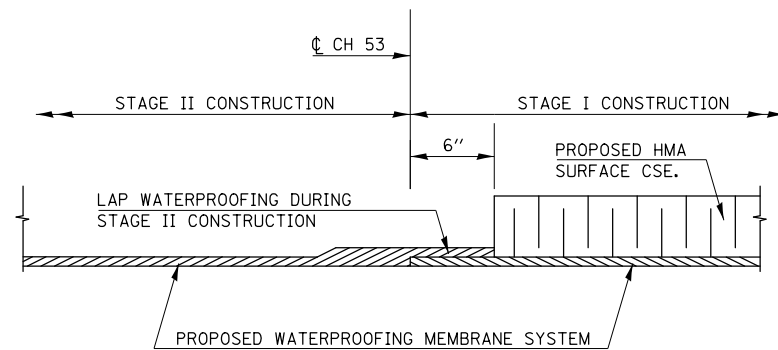
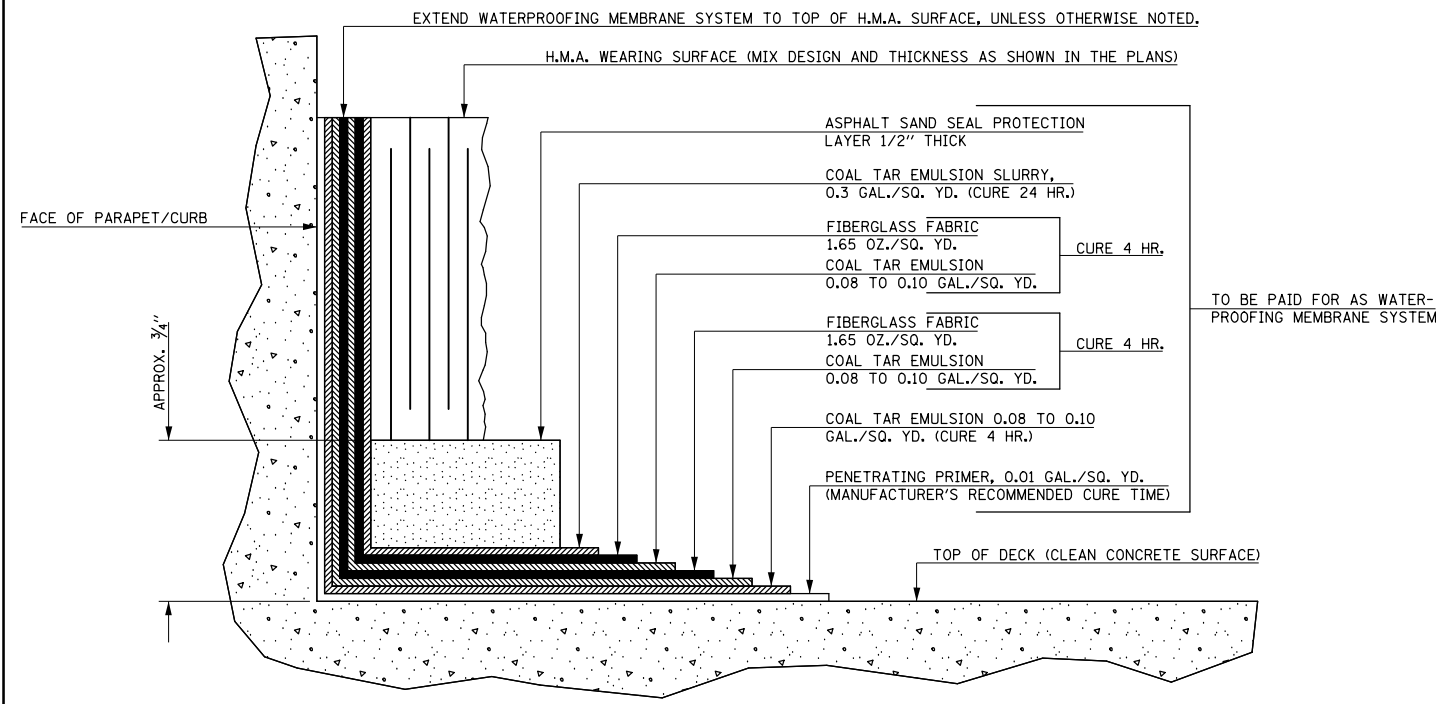


**SECTION AT APPROACH**

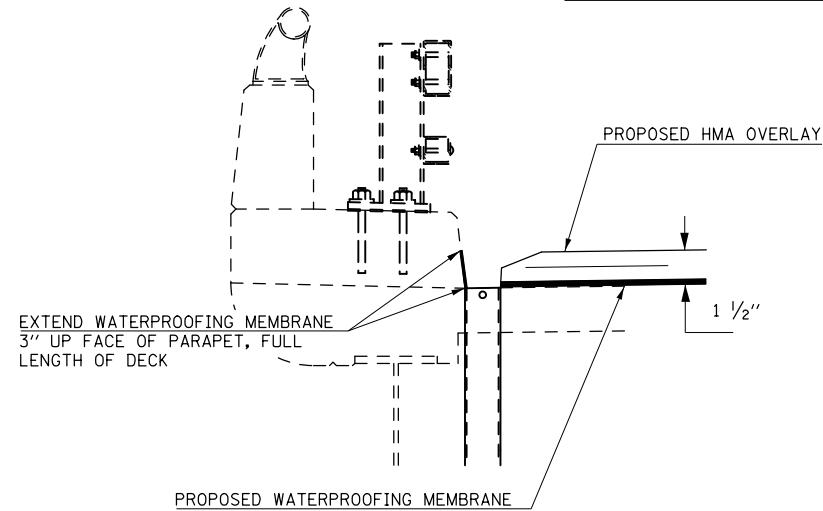
- WATER PROOFING MEMBRANE SYSTEM
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50 (1 1/2")
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
HMA SURF. CSE. MIX 'C' N50	TON	110.0
HMA SURFACE REMOVAL, 2"	SQ YD	315.0
WATERPROOFING MEMBRANE SYSTEM	SQ YD	910.0
HMA SURFACE REMOVAL (DECK)	SQ YD	902.0



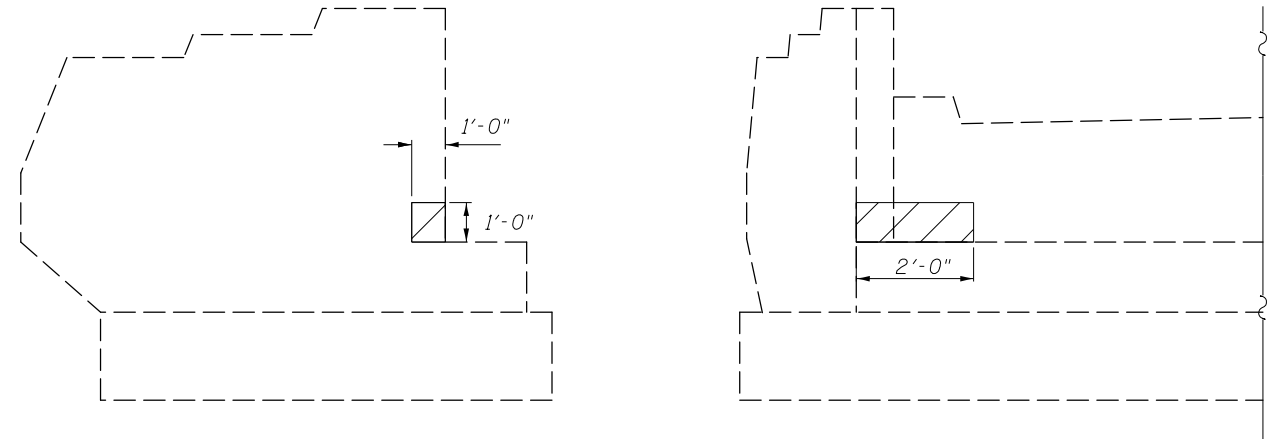
**WATERPROOFING TREATMENT AT STAGE CONSTRUCTION**



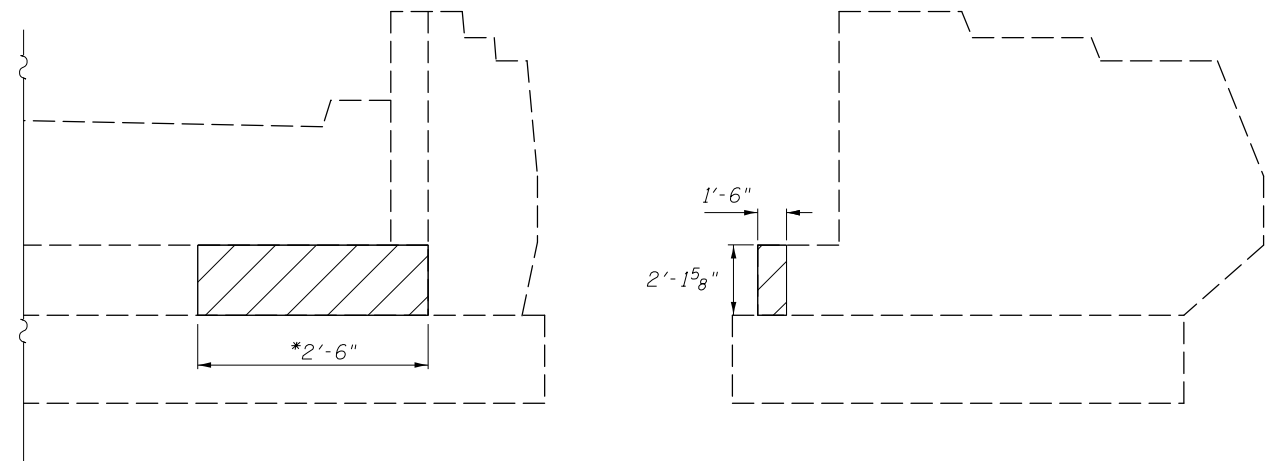
**SECTION AT DRAIN**

**NOTES**

THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.



**ELEVATION EAST ABUTMENT LT. (NORTH WINGWALL & BACKWALL)**



**ELEVATION EAST ABUTMENT RT. (SOUTH BEAM SEAT)**

**NOTE:**

SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.  
 \*STRUCTURE REPAIR OF CONCRETE TO BE COMPLETED WITH JACK AND REMOVE EXISTING BEARINGS.

**LEGEND**

STRUCTURAL REPAIR OF CONCRETE, DEPTH EQUAL TO OR LESS THAN 5"

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SQ FT	11.6

FILE NAME =	USER NAME = piersonbr	DESIGNED - JMS	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\057\DRAWING\Design\3833- RepairPlans.dwg		CHECKED -	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE - 012915	REVISED -
	PLOT DATE = 1/27/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**STRUCTURAL REPAIR OF CONCRETE DETAIL  
S.N. 057-0102**

SCALE: NONE SHEET NO. 7 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	14
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				

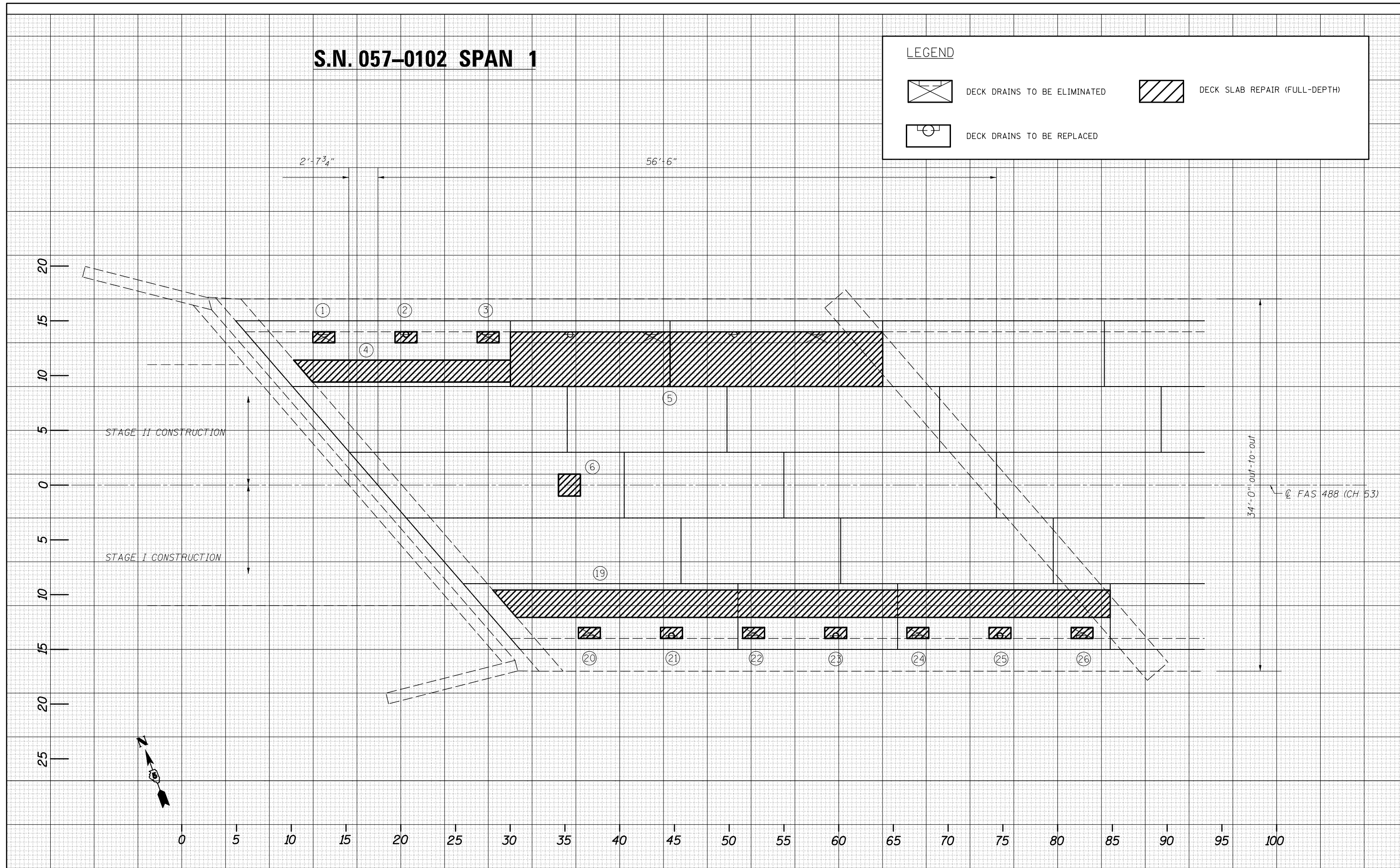
# S.N. 057-0102 SPAN 1

**LEGEND**

-  DECK DRAINS TO BE ELIMINATED
-  DECK SLAB REPAIR (FULL-DEPTH)
-  DECK DRAINS TO BE REPLACED


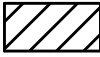

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

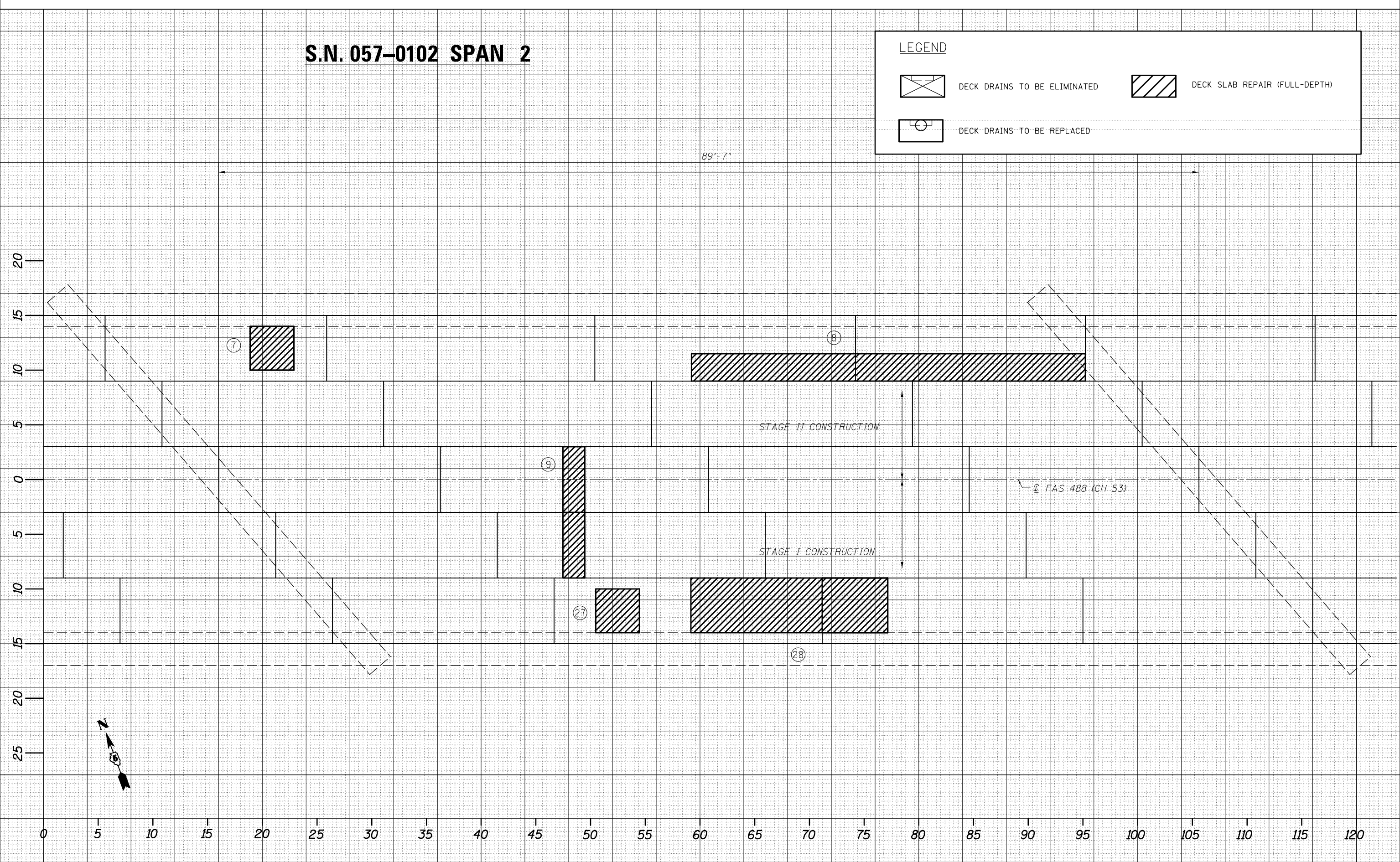
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



# S.N. 057-0102 SPAN 2

**LEGEND**

	DECK DRAINS TO BE ELIMINATED		DECK SLAB REPAIR (FULL-DEPTH)
	DECK DRAINS TO BE REPLACED		



BY	DATE

BY	DATE

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
p:\IL084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570B33\CADD\Drawings\70833- RepairPlans.dgn		DRAWN	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -		REVISED -
PLOT DATE = 1/27/2016	DATE -		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

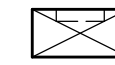
<b>BRIDGE DECK PATCHING DETAIL</b>			
<b>S.N. 057-0102</b>			
SCALE: 1" = 5'	SHEET 9	OF 16 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	16
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				

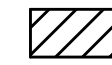


# S.N. 057-0102 SPAN 3

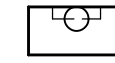
## LEGEND



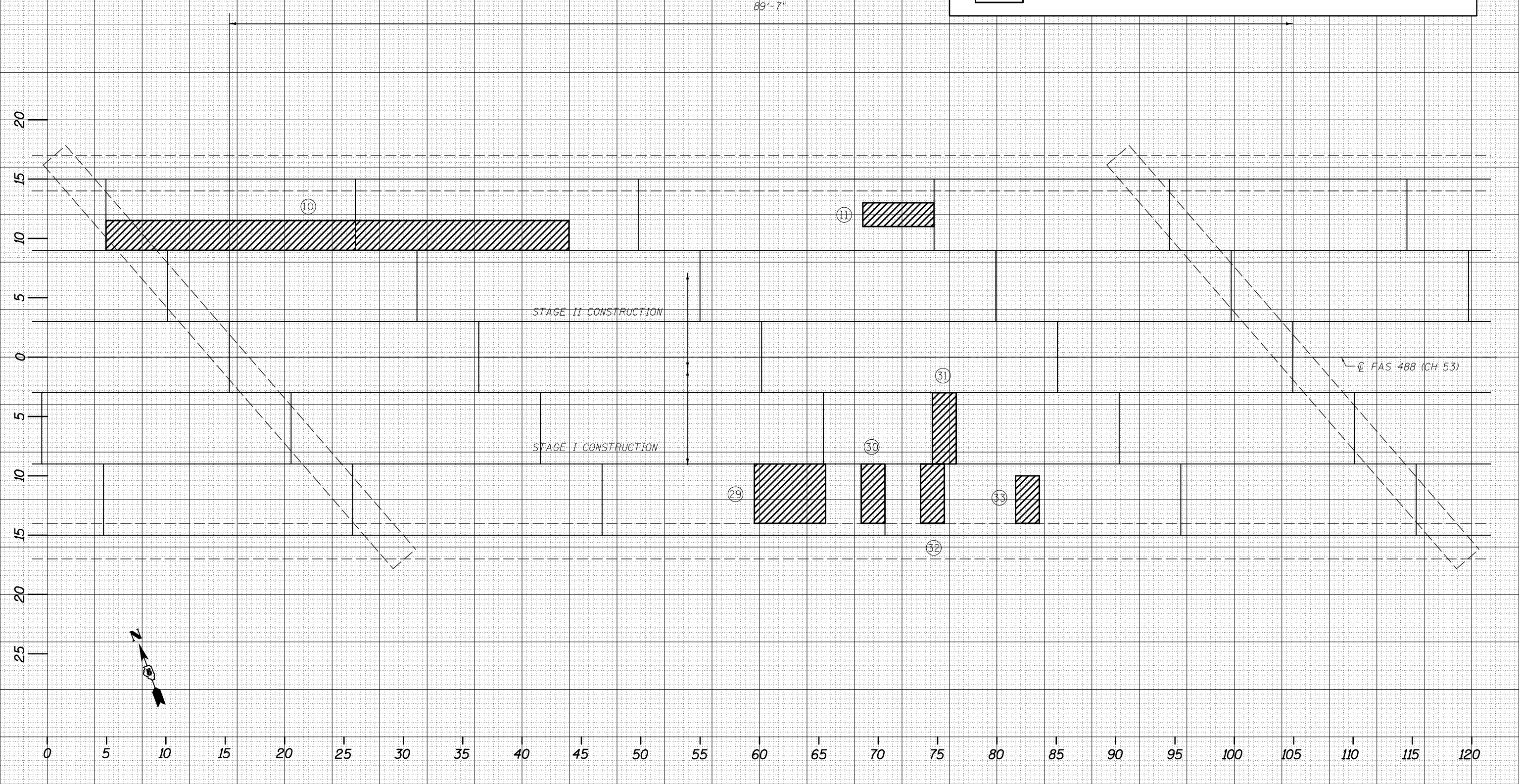
DECK DRAINS TO BE ELIMINATED



DECK SLAB REPAIR (FULL-DEPTH)



DECK DRAINS TO BE REPLACED



DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 1/27/2016	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

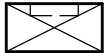


**BRIDGE DECK PATCHING DETAIL  
S.N. 057-0102**

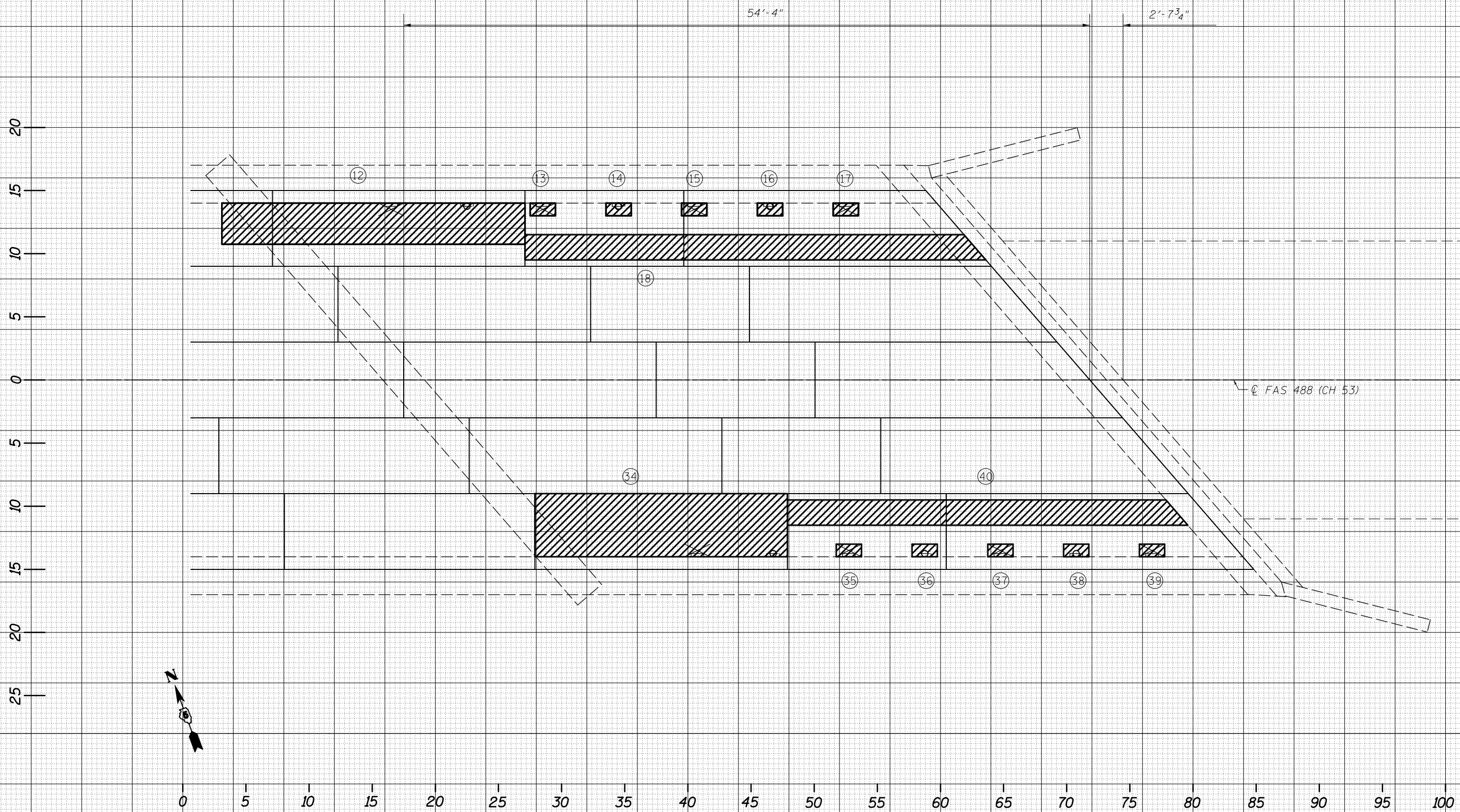
SCALE: 1" = 5'    SHEET 10 OF 16 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	17
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				

# S.N. 057-0102 SPAN 4

**LEGEND**

-  DECK DRAINS TO BE ELIMINATED
-  DECK SLAB REPAIR (FULL-DEPTH)
-  DECK DRAINS TO BE REPLACED



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

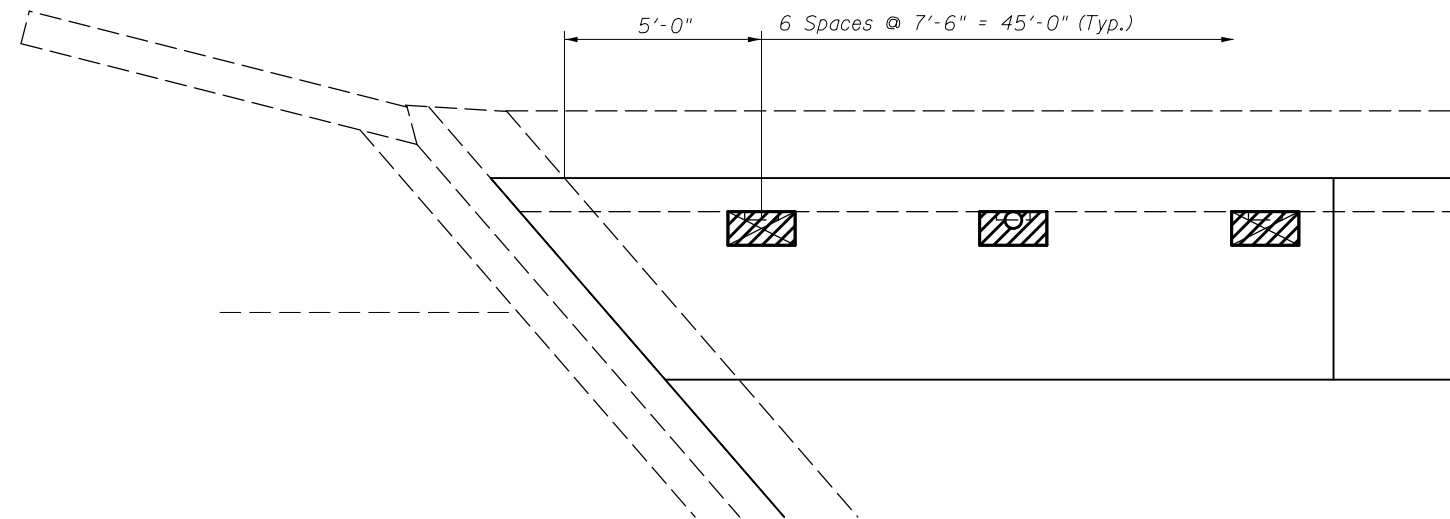
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	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

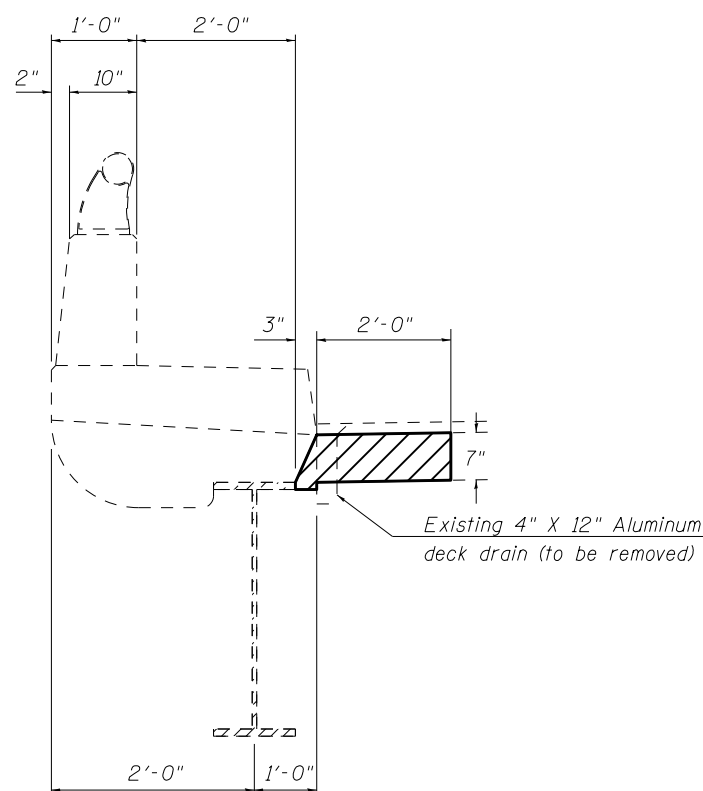
**BRIDGE DECK PATCHING DETAIL  
S.N. 057-0102**

SCALE: 1" = 5'    SHEET 11 OF 16 SHEETS    STA.    TO STA.

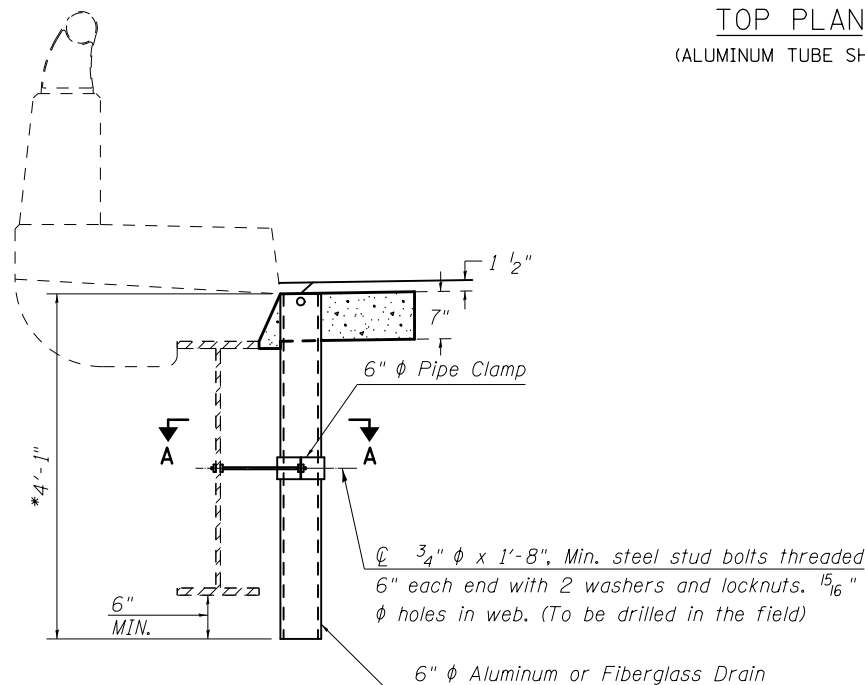
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	18
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				



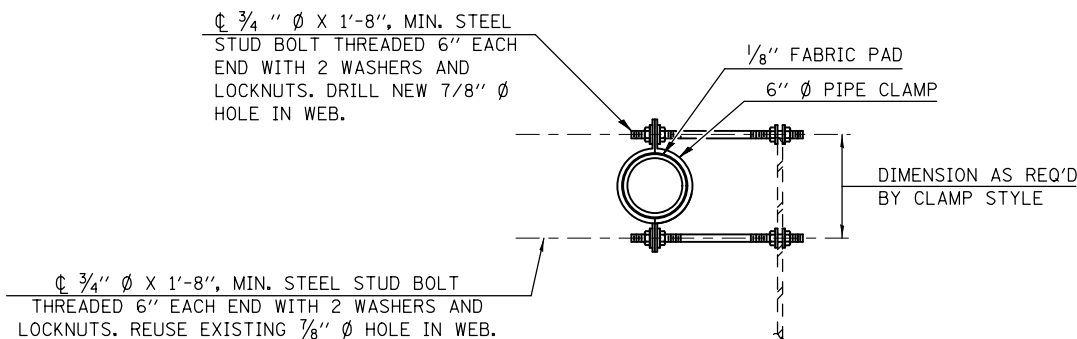
**PLAN VIEW OF DRAINS  
TYPICAL**



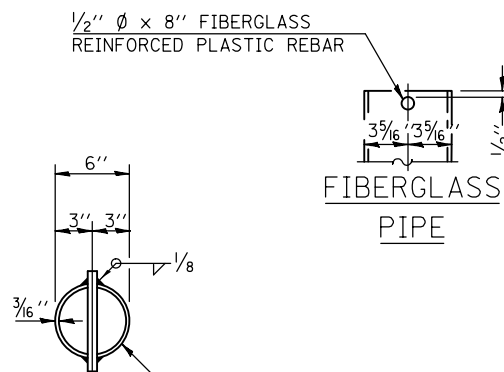
**SECTION AT  
EXISTING DRAIN**



**SECTION AT  
PROPOSED DRAIN**

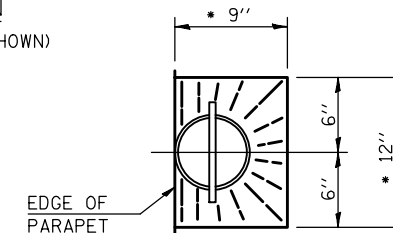
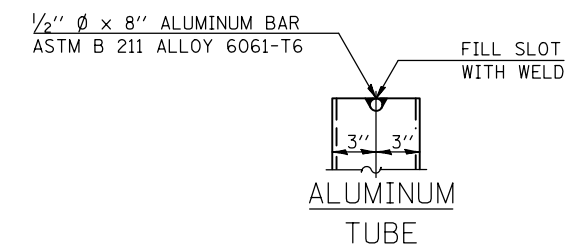


**SECTION A-A  
SHOWING PIPE CLAMP  
ANCHORAGE STYLE**



**6" O.D. ALUMINUM TUBE ALLOY  
6061-T6 OR 6" Ø FIBERGLASS PIPE**

**TOP PLAN  
(ALUMINUM TUBE SHOWN)**



**TOP PLAN  
• SLOPE TO DRAIN**

**LEGEND**

- EXISTING DECK DRAINS (TO BE REPLACED WITH FLOOR DRAINS)
- EXISTING DECK DRAINS (TO BE ELIMINATED)
- DECK SLAB REPAIR (FULL DEPTH, TYPE I)

**NOTES:**

- FLOOR DRAINS NEED NOT BE PAINTED.
- FIBERGLASS PIPE SHALL CONFORM TO ASTM D 2996, WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE STRESS OF 30,000 P.S.I. MINIMUM.
- GALVANIZE CLAMPING DEVICE AND ALL STUD BOLTS, WASHERS AND NUTS ACCORDING TO AASHTO M232.
- \*ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING OF MATERIALS.
- COST OF REMOVAL OF EXISTING DRAINS IS INCLUDED IN DECK SLAB REPAIR.

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
FLOOR DRAINS	EACH	12.0

PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
1	2.0	1.0	0.2	
2	2.0	1.0	0.2	
3	2.0	1.0	0.2	
4	18.9	2.0		4.2
5	34.0	5.0		18.9
6	2.0	2.0	0.4	
7	4.0	4.0		1.8
8	36.0	2.0		8
9	2.0	12.0		2.7
10	39.0	2.0		8.7
11	6.0	2.0	1.3	
12	24.0	3.0		8
13	2.0	1.0	0.2	
14	2.0	1.0	0.2	
15	2.0	1.0	0.2	
16	2.0	1.0	0.2	
17	2.0	1.0	0.2	

SUB-TOTAL =    3.3    52.3

PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
18	35.6	2.0		7.9
19	55.3	2.0		12.3
20	2.0	1.0	0.2	
21	2.0	1.0	0.2	
22	2.0	1.0	0.2	
23	2.0	1.0	0.2	
24	2.0	1.0	0.2	
25	2.0	1.0	0.2	
26	2.0	1.0	0.2	
27	4.0	4.0		1.8
28	18.0	5.0		10.0
29	6.0	5.0		3.3
30	2.0	5.0	1.1	
31	2.0	5.0	1.1	
32	2.0	5.0	1.1	
33	2.0	4.0	0.9	
34	20.0	5.0		11.1

SUB-TOTAL =    5.6    46.4

PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
35	2.0	1.0	0.2	
36	2.0	1.0	0.2	
37	2.0	1.0	0.2	
38	2.0	1.0	0.2	
39	2.0	1.0	0.2	
40	30.8	2.0		6.8

SUB-TOTAL =    1.0    6.8

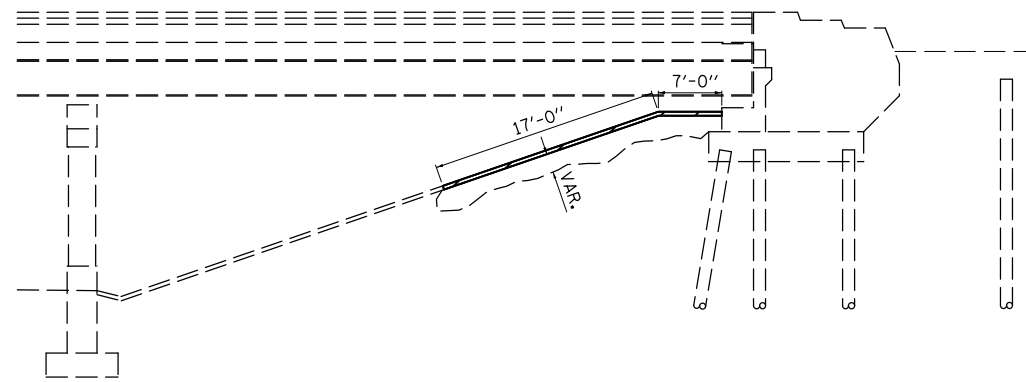
TOTAL =    9.9    105.5

NOTES:

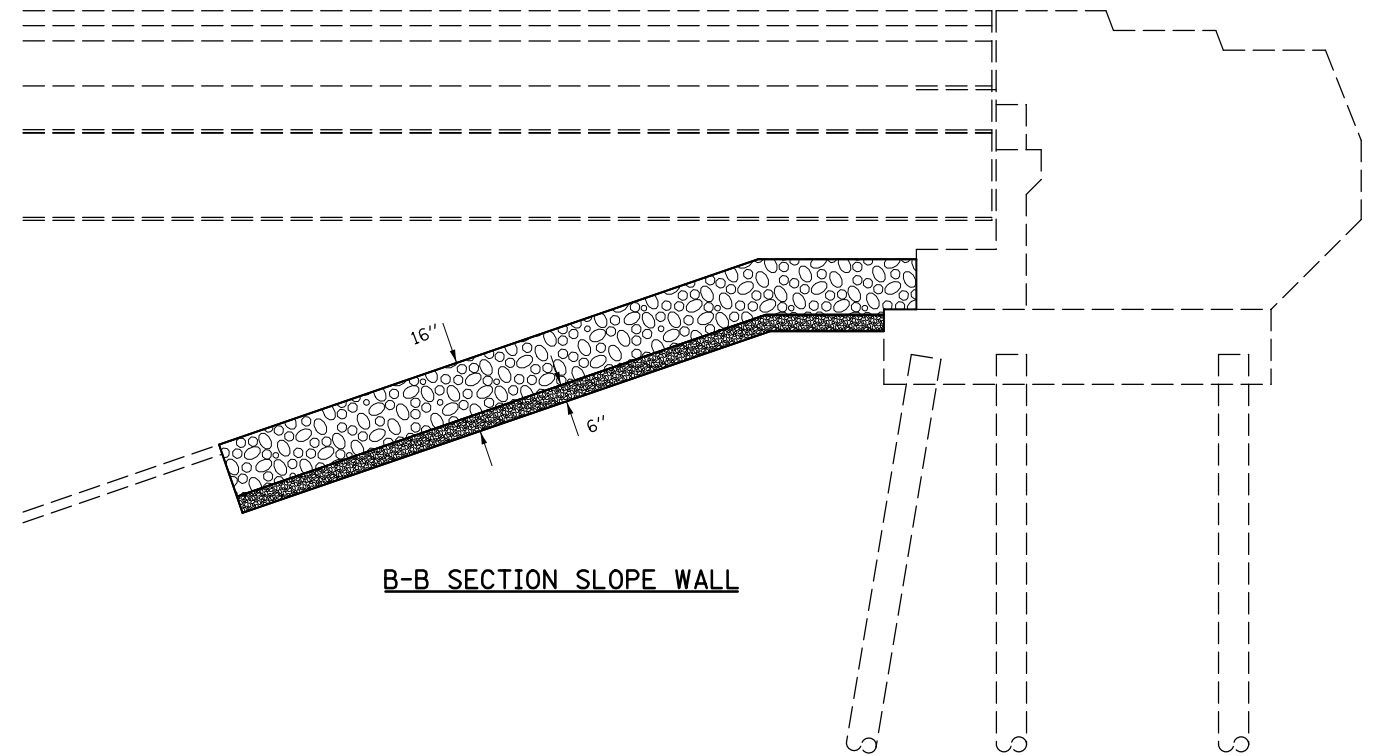
AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM MAY, 2014 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AFTER THE EXISTING H.M.A. WEARING SURFACE AND WATERPROOFING MEMBRANE ARE REMOVED. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON SHEET(S) 8-11.

BILL OF MATERIALS

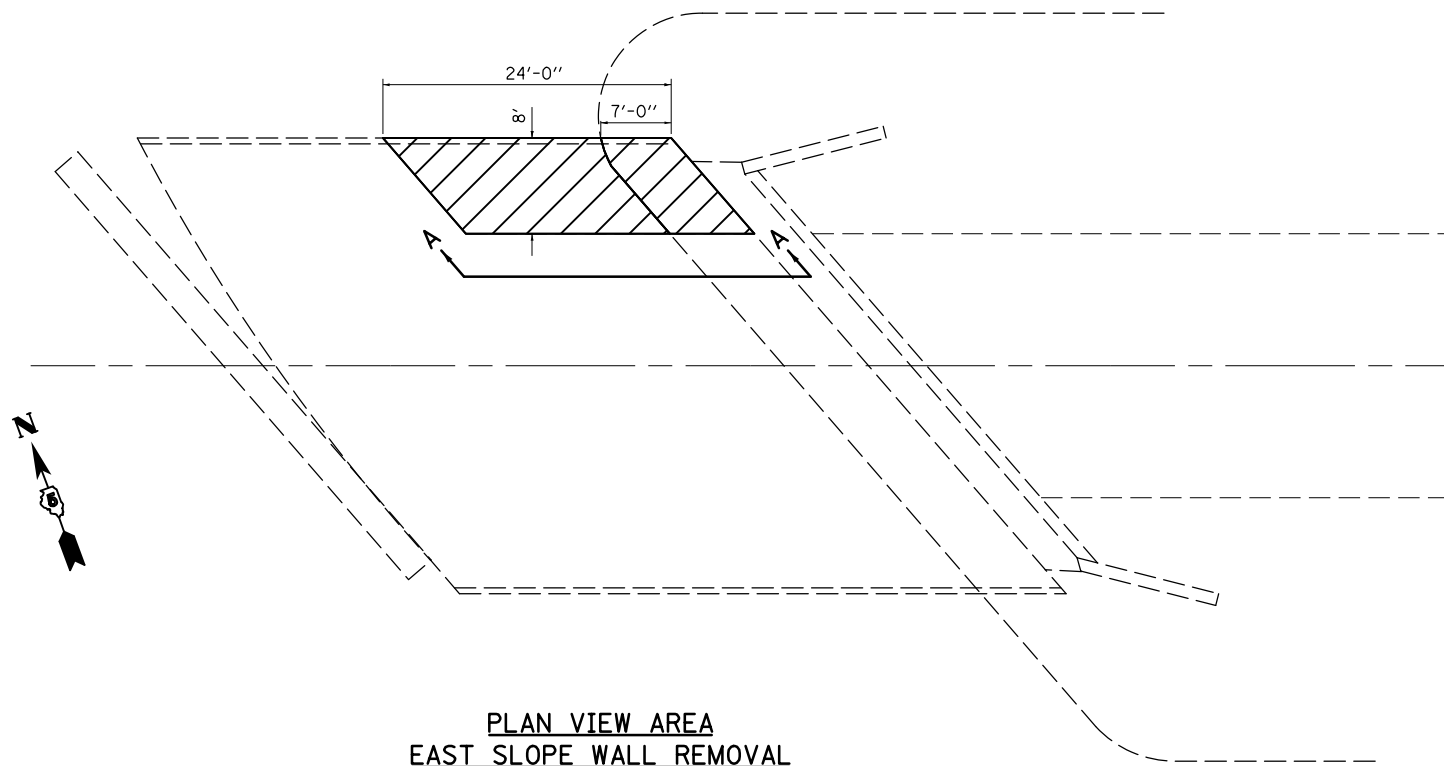
ITEM	UNIT	TOTAL
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	9.9
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	105.5
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ YD	45.0



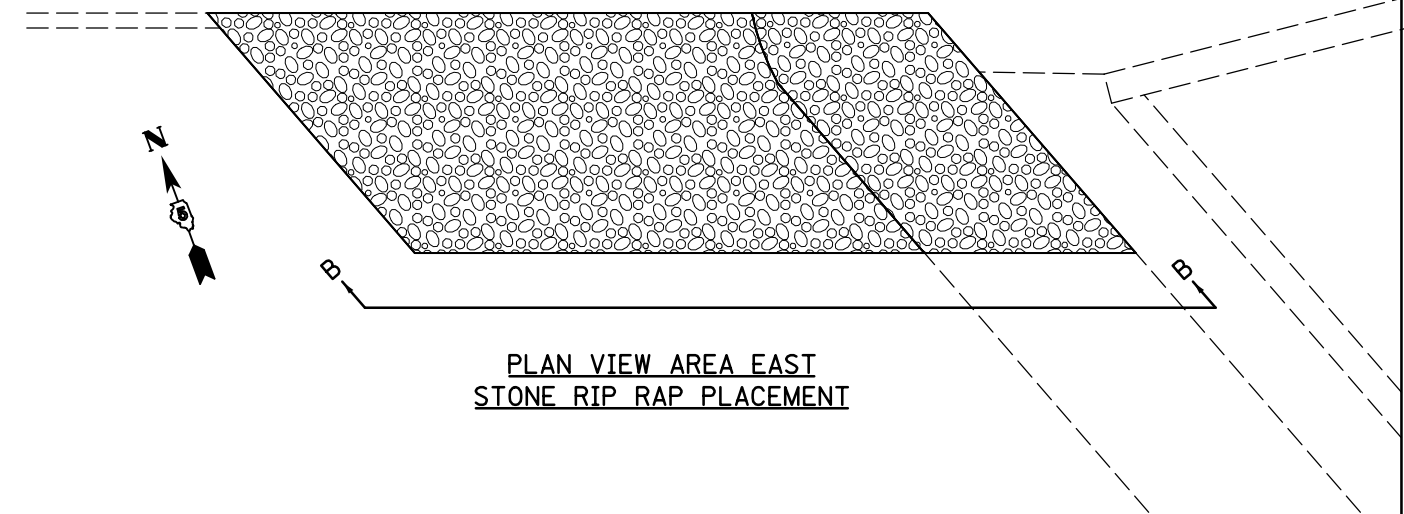
**A-A SECTION SLOPE WALL**



**B-B SECTION SLOPE WALL**



**PLAN VIEW AREA EAST SLOPE WALL REMOVAL**



**PLAN VIEW AREA EAST STONE RIP RAP PLACEMENT**

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
STONE RIP RAP, CLASS A4	SQ YD	22.0
SLOPE WALL REMOVAL	SQ YD	22.0

FILE NAME =	USER NAME = piersonbr	DESIGNED - JMS	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0579\Drawings\Design\3833- RepairPlans.dgn		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/27/2016	DATE - 012915	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

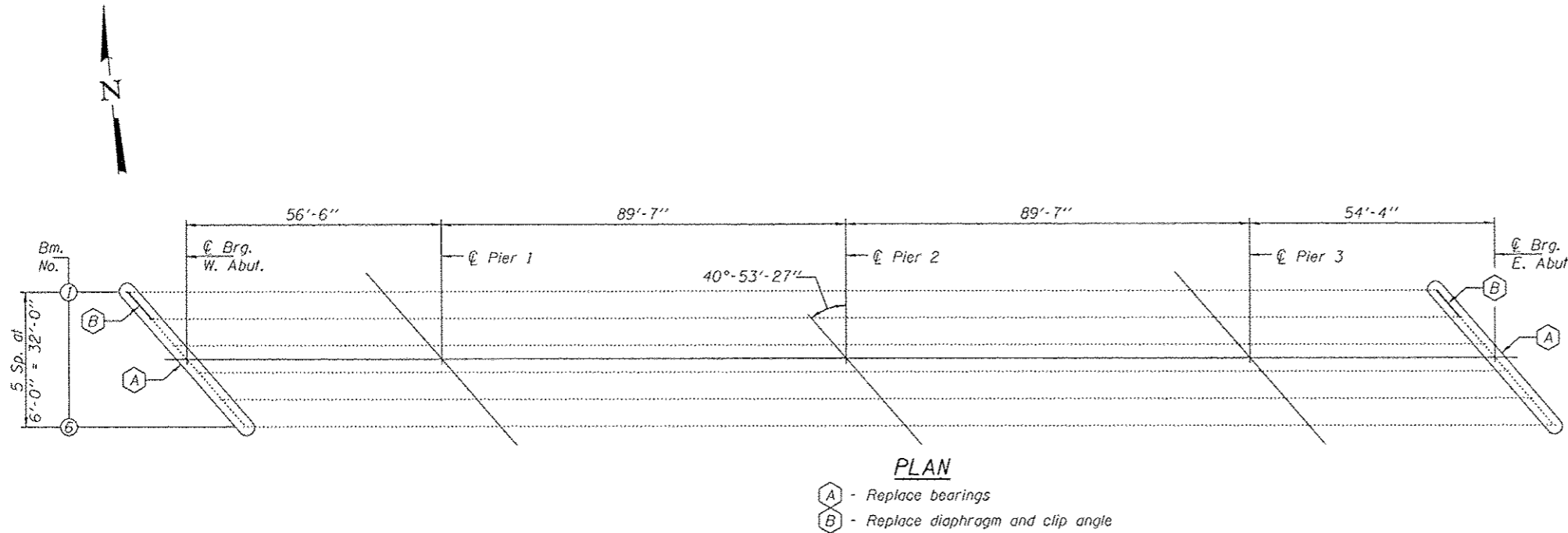
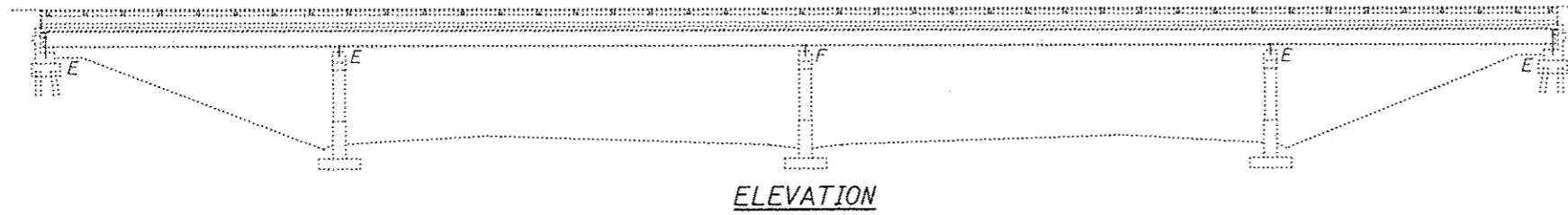
**EAST ABUTMENT SLOPE WALL REPAIR DETAIL  
S.N. 057-0102**

SCALE: NONE    SHEET NO. 14 OF 16 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	21
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				

**INSERTED BY BBS**

FILE NAME =	USER NAME = piersonbr	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BEARING REPLACEMENT DETAILS S.N. 057-0102</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\057-0102\Drawings\Design\B33- Repair Plans.dgn		CHECKED -	REVISED -					74	(57-17)BDR,I	MCLEAN	36	22	
PLOT SCALE = 40.0000' / in.		DATE - 012915	REVISED -		SCALE: NONE			SHEET NO. 15 OF 16 SHEETS		STA. TO STA.		CONTRACT NO. 70B33	
PLOT DATE = 1/27/2016					ILLINOIS FED. AID PROJECT								



**NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 35, unless otherwise noted.

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

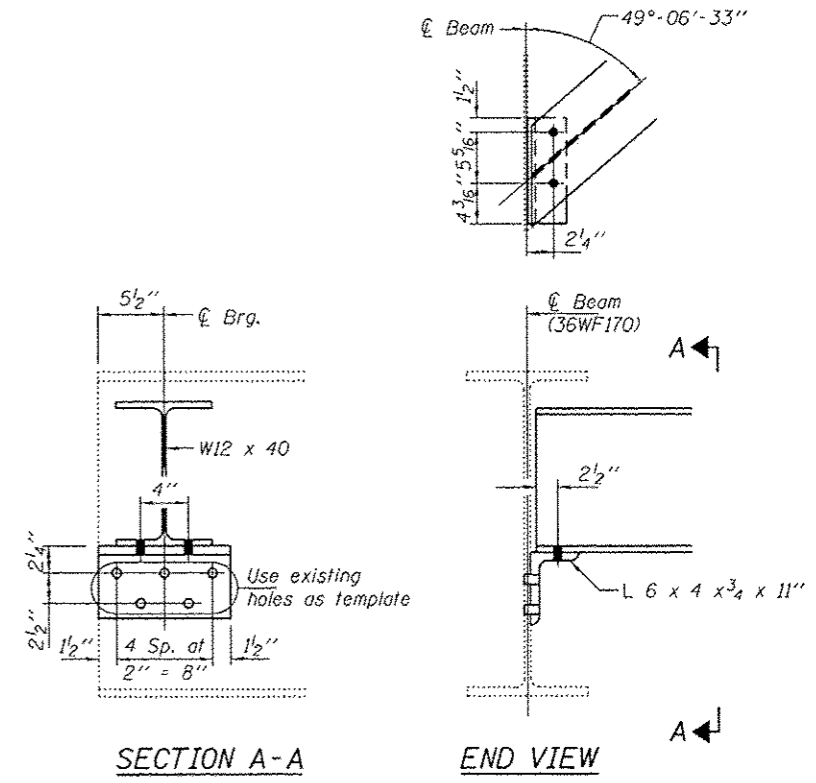
Diaphragm connection holes shall be  $\frac{15}{16}$ "  $\phi$  for  $\frac{3}{4}$ "  $\phi$  bolts. Two hardened washers shall be required at diaphragm connections.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All new structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

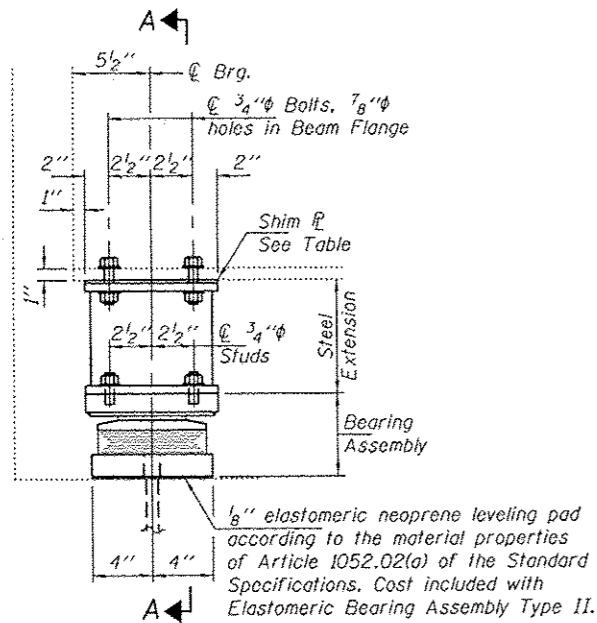


**DIAPHRAGM REPLACEMENT DETAIL**  
(2 Required)

**BILL OF MATERIAL**

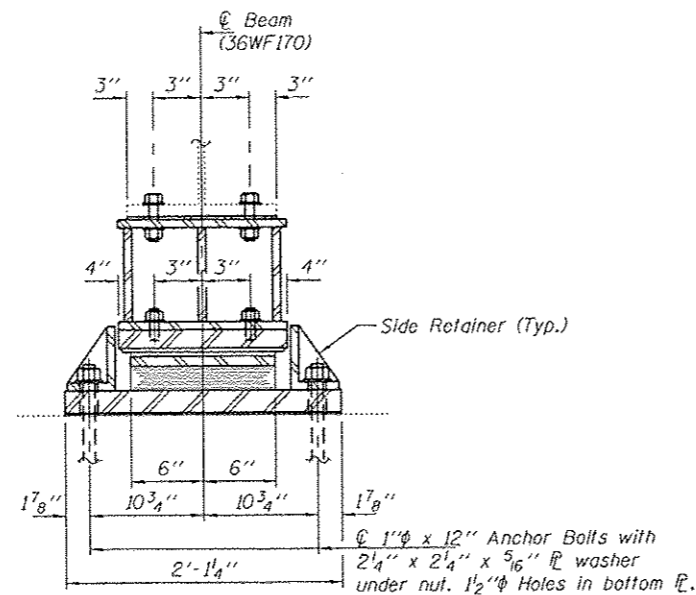
ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	720
Furnishing and Erecting Structural Steel	Pound	2710
Jack and Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly Type II	Each	12
Anchor Bolts 1" $\phi$	Each	24





ELEVATION AT ABUTMENT

TYPE II TFE ELASTOMERIC EXP. BRG.

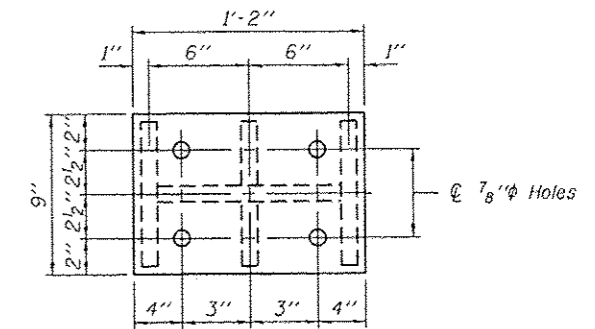


SECTION A-A

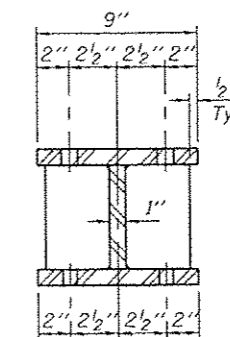
BEAM REACTIONS

R <sub>l</sub>	20.9
R <sub>r</sub>	31.6
Imp.	8.7
R (Total)	61.2

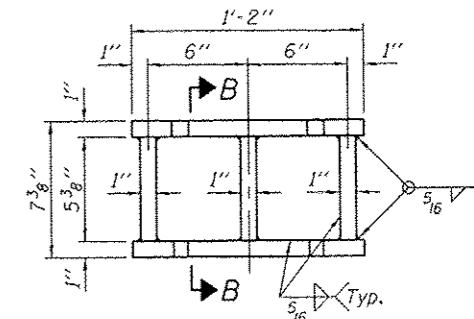
Notes:  
 Diaphragm removal and installation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 35 Tons.  
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.  
 The 1/8 inch PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.  
 Bonding of 1/8 inch PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



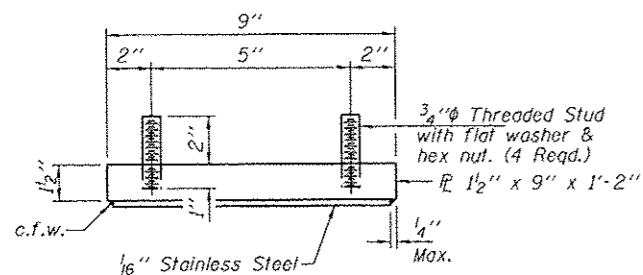
PLAN TOP AND BOTTOM PLATE



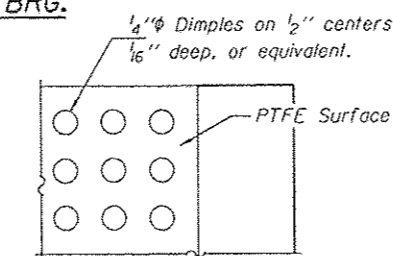
SECTION B-B



STEEL EXTENSION DETAIL



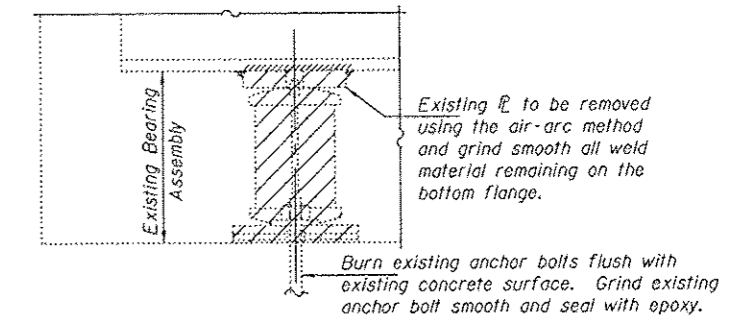
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

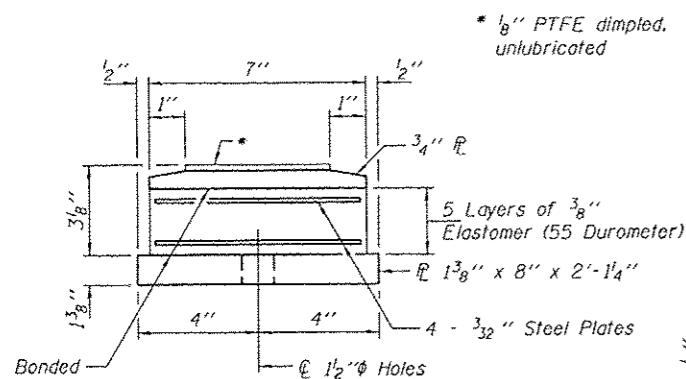
SHIM TABLE

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
W. Abut.	-	-	1/4"	1 1/16"	1 3/8"	3/4"
E. Abut.	3/4"	1 3/8"	1 1/16"	1/4"	-	-

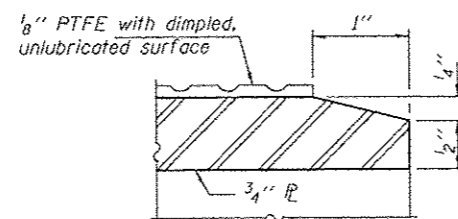


EXISTING BEARING REMOVAL DETAIL

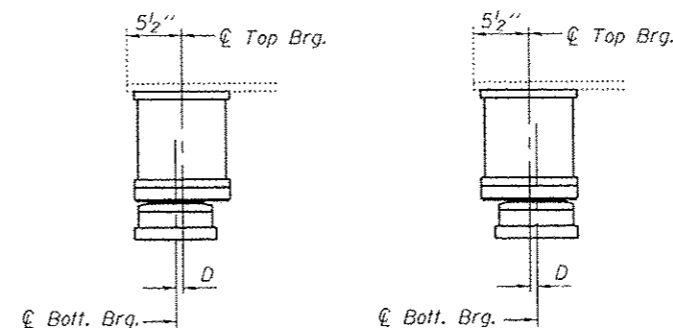
Cost included with Jack and Remove Existing Bearings.



BOTTOM BEARING ASSEMBLY

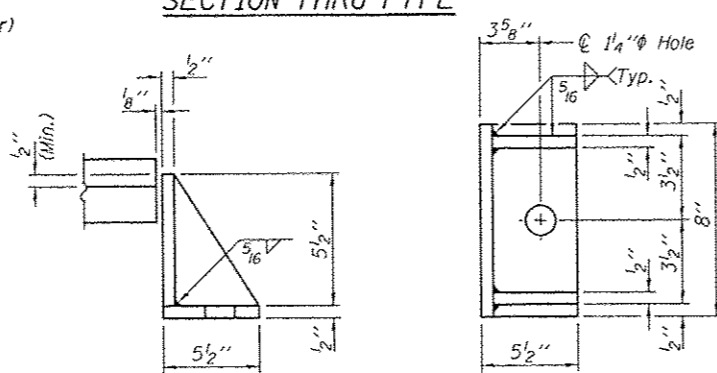


SECTION THRU PTFE



SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8 inch per each 100 feet of expansion for every 15 degrees temp. change from the normal temp. of 50 degrees F.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1980
Anchor Bolts 1 inch	Each	24

TYII/REPS 12-03-2008

DESIGNED DAB  
 CHECKED CCC  
 DRAWN boliva  
 CHECKED DAB CCC

PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 1, 2016  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT DETAILS  
 ABUTMENTS  
 SN 057-0102

SHEET NO. 16A OF 16 SHEETS

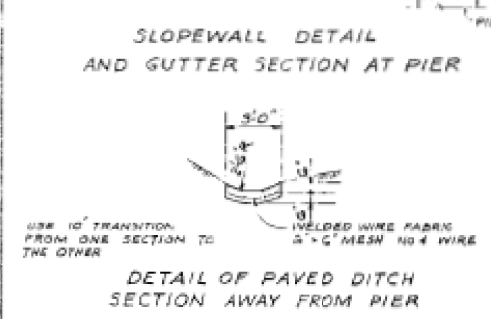
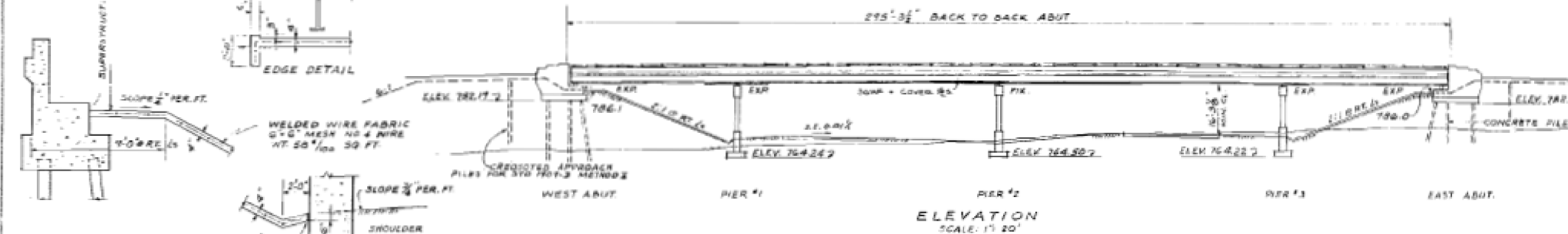
F.A.I. RTE. 74  
 SECTION 657-178DR.I  
 COUNTY MCLEAN  
 TOTAL SHEETS 36  
 SHEET NO. 23A  
 CONTRACT NO. 70B33  
 ILLINOIS FED. AID PROJECT



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

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA. RT. 74	57-17	MCLEAN	33	10
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT 1-74-4186		

S.N. NO. 1 OF 9

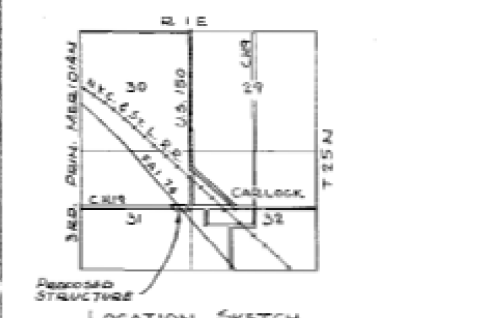


**FA.I. RT. 74 CURVE DATA**

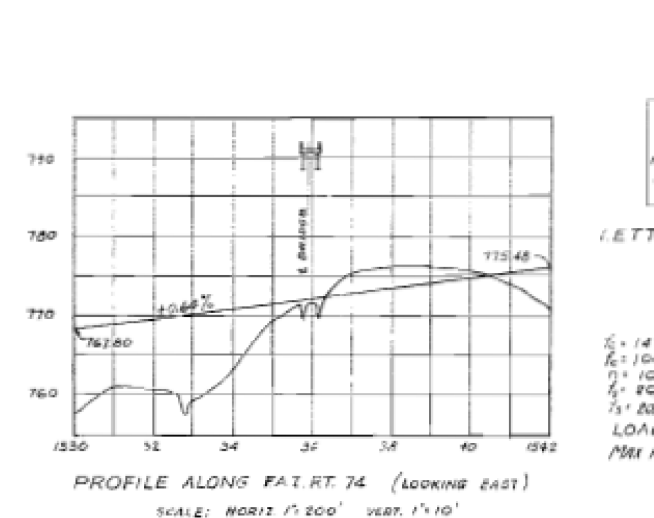
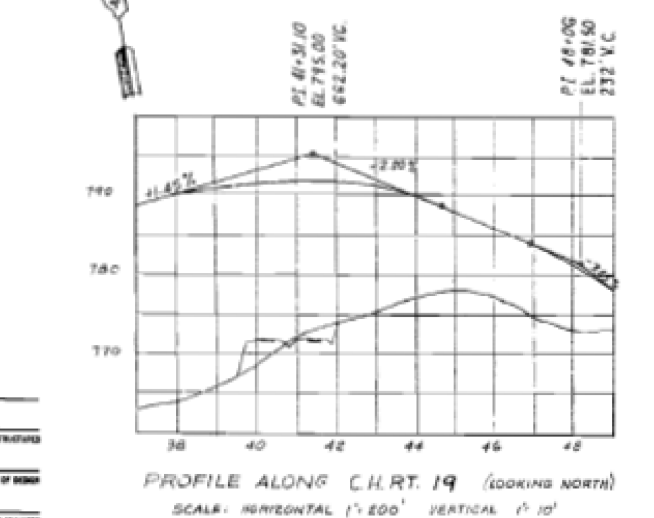
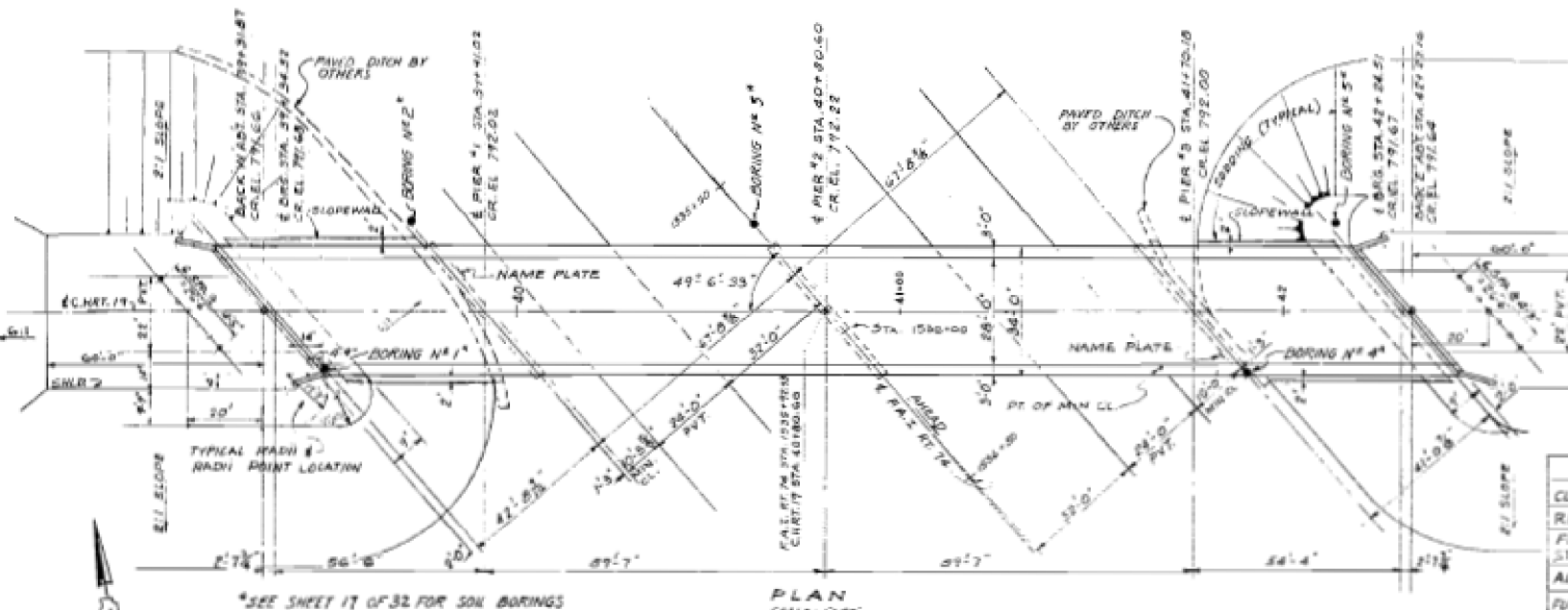
P.C. STA. 1335 + 70.36  
 P.T. STA. 1335 + 70.36  
 D = 11" 37' 16"  
 R = 579.54'  
 T = 574.64'  
 L = 1145.45'  
 E = 28.74'  
 P.C. STA. 1529 + 95.72  
 P.T. STA. 1541 + 41.17  
 S.E. = 0.01%

**BRIDGE APPROACH SLAB PILE DATA**

TYPE: CRESTED  
 EST. LENGTH: 27' 15"  
 NO. PILES: 7



DESIGNED	R.H.M.	STARTED	
CHECKED	H.Y.P.	PROG.	
DRAWN	H.Y.P.	APPROVED	
CHECKED	R.H.M.		



STA 1535 + 92.53  
 BUILT 179 BY  
 STATE OF ILLINOIS  
 FA. RT. 74 SEC 57-17-3  
 FA. PROJ. 1-74-4186  
 LOADING H20-516

LETTERING FOR NAME PLATE  
 SEE STD. 2113

**DESIGN STRESSES**

$E_c = 1400 \text{ }^2/\text{sq. in. (SUPER. \& SUB. NO. EARTH PRE.)}$   
 $E_s = 1000 \text{ }^2/\text{sq. in. (SUB. WITH EARTH PRE.)}$   
 $f_c = 10$   
 $f_s = 20000 \text{ }^2/\text{sq. in. BRINF}$   
 $f_s = 20000 \text{ }^2/\text{sq. in. STRUCT. (17-32)}$   
 LOADING H20-516-44  
 MAX FOOTING PRESSURE = 4000 P.S.F.

**GENERAL NOTES**

CLASS "A" CONCRETE SHALL BE USED THROUGHOUT UNLESS OTHERWISE NOTED.

THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS AND SHALL BE POURED IN ONE CONTINUOUS OPERATION BETWEEN THE LIMITS OF THE CONSTRUCTION JOINTS SHOWN.

ALL CURBS AND SLABS OUTSIDE OF LONGITUDINAL BONDED CONSTRUCTION JOINTS SHALL BE POURED MONOLITHICALLY.

ALL ROCKERS, BOLSTERS, BEARING PLATE, LEAD PLATES, PIN-TILES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN THE QUANTITIES OF STRUCTURAL STEEL. ESTIMATED WEIGHT - 8420 LBS.

ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER SUPPORTS.

ROADWAY EXPANSION GUARDS SHALL BE ASSEMBLED IN THE SHOP IN THE PROPER POSITION WITH THE ADJACENT ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

CONCRETE PILES:

ARE INCLUDED IN QUANTITIES OF STRUCTURAL STEEL.

EXCEPT AS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. SEE ARTICLES 56.1 TO 56.5 OF THE STANDARD SPECIFICATIONS. ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR.

THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN EACH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE CASTING THE REMAINDER OF THE PILES.

UNLESS OTHERWISE SHOWN ON THE PLANS, REINFORCEMENT BARS SHALL BE LAPPED 20 BAR DIAMETERS.

THE PILES IN EACH ABUTMENT SHALL BE DRIVEN IN HOLES PRECURRED THROUGH THE EMBANKMENT TO THE NATURAL GROUND LINE, IN ACCORDANCE WITH ARTICLE 56.10 OF THE STANDARD SPECIFICATIONS.

COARSE AGGREGATE WHICH IS TO BE USED IN FOOTING HANDRAILS AND END POSTS SHALL BE ABSOLUTELY FREE OF CLAY, FLINT, LIMONITE, LIGNITE, AND SOFT SAND STONE.

THE SPREAD CARBLES OF THE SUPERSEDED BRIDGE SHALL BE REMOVED AND THE ENDS OF THE CARBLES SHALL BE CUT OFF AT THE SURFACES SHOWN. SEE ALSO THE CONTRACT FOR THE REMOVAL OF THE OLD BRIDGE. SURFACES SHALL BE CLEAN, BUT NOT OF RED LEAD PAINT. HIGHWAY STUDS SHALL NOT BE PAINTED.

**TOTAL BILL OF MATERIAL (SEC. 57-17 HB-3)**

ITEM	QUANTITY	SUBSTR.	TOTAL
CLASS "A" CONCRETE	CU. YDS.	310.4	310.4
REINFORCEMENT BARS	LBS.	66800	66800
FURNISHING & ERECTING STRUCTURAL STEEL	LBS.	354 400	354 400
ALUMINUM HANDRAIL	LIN. FT.	585	585
FURNISHING CONCRETE PILES	LIN. FT.	1305	1305
DRIVING CONCRETE PILES	LIN. FT.	1305	1305
FURNISHING CRESTED PILES (PIERS) UNIT			259
DRIVING TIMBER PILES	LIN. FT.		259
TEST PILES (CONCRETE)	EA.	1	1
Bridge Seat Scaffolding	L.S.		L.S.
SLOPE WALLS, 4 INCH	SQ. YDS.		281
CLASS "A" EXCAVATION FOR FOOT. CU. YDS.		360	360
NAME PLATE	EA.	2	2
SOODING	30 YDS.		589

Applied at E & W Abutment seats

**GENERAL PLAN & ELEVATION**

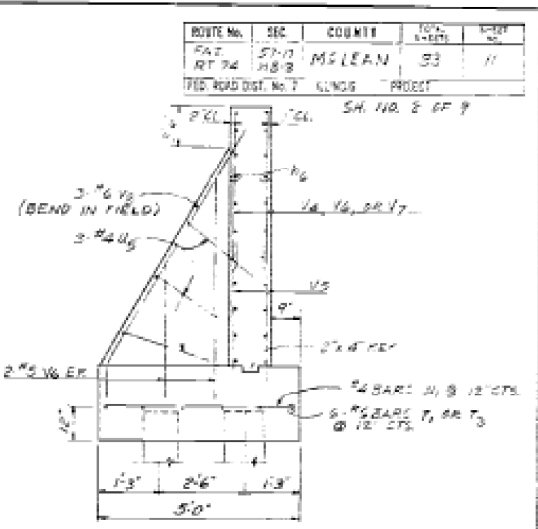
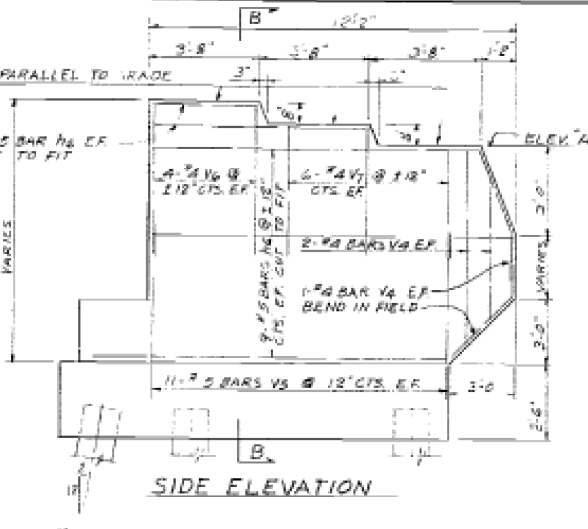
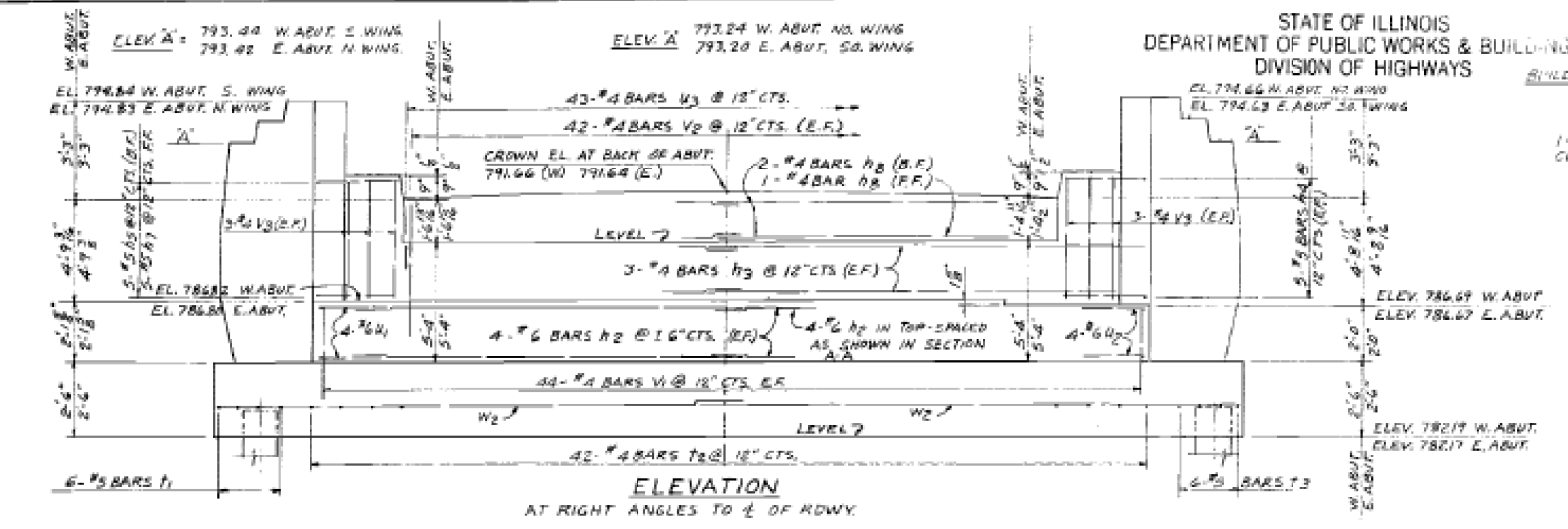
FA.I. ROUTE 74 SECTION 57-17HB-3  
 F.A. PROJECT 1-74-4 (84)119  
 C.H. ROUTE 19 OVER FA.I. ROUTE 74  
 STATION 1535 + 92.53  
 MCLEAN COUNTY

WARREN AND VAN PRAAG, INC.  
 CONSULTING ENGINEERS - DECATUR, ILLINOIS

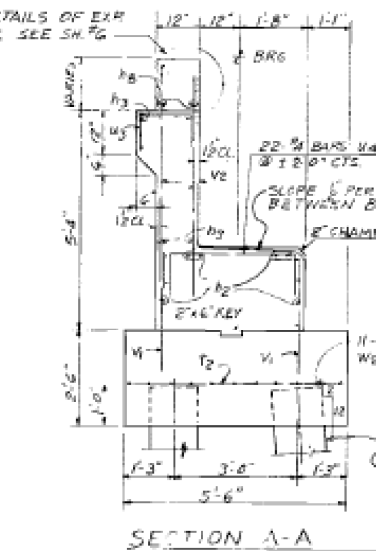
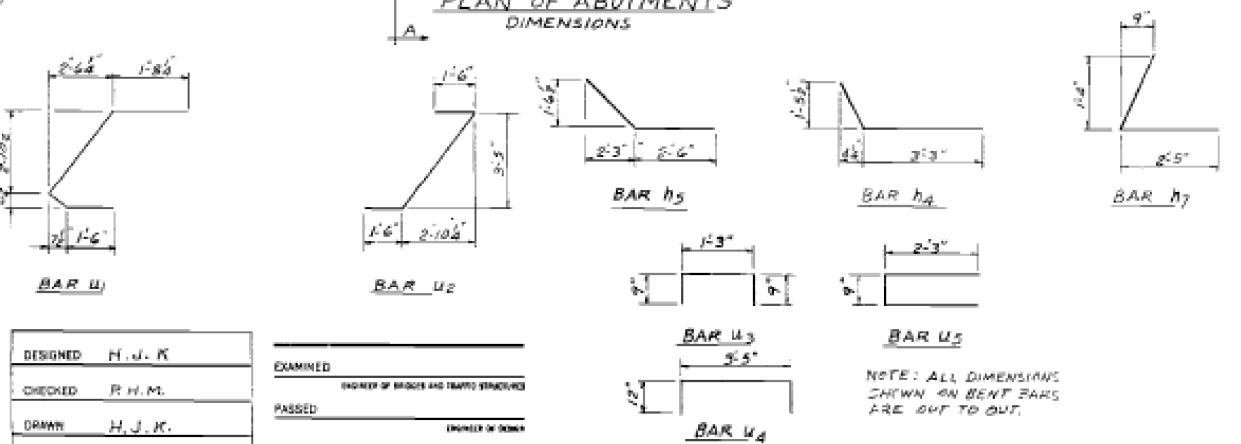
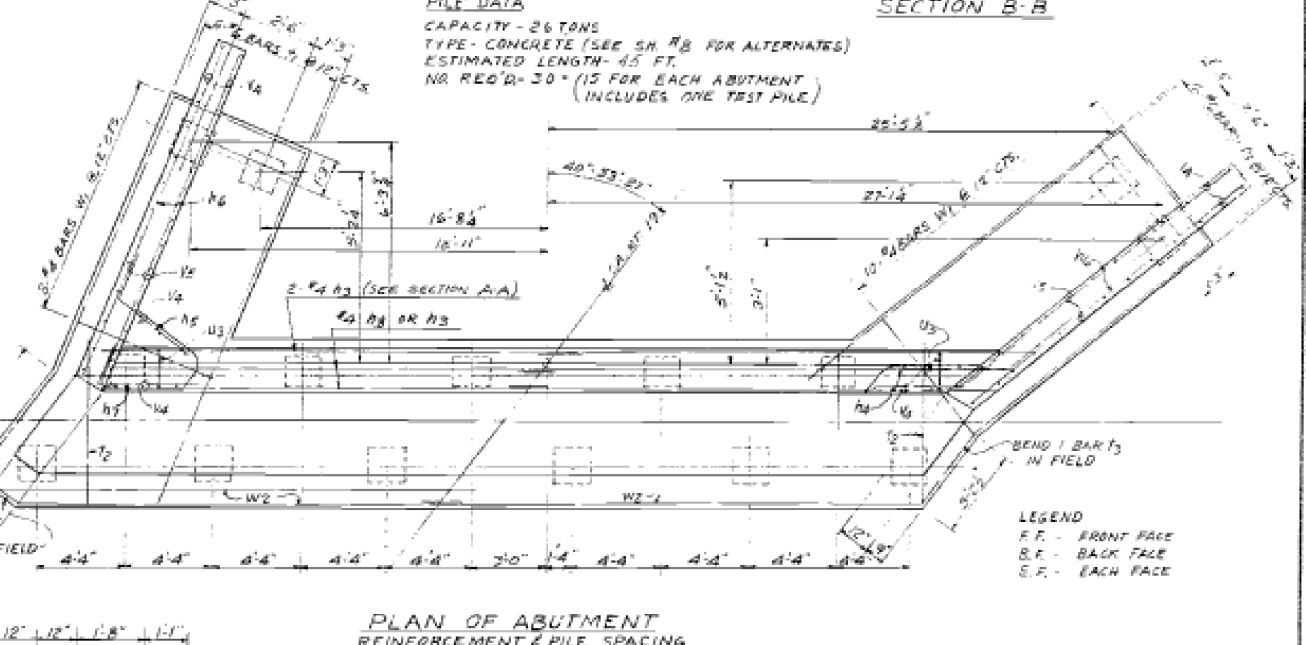
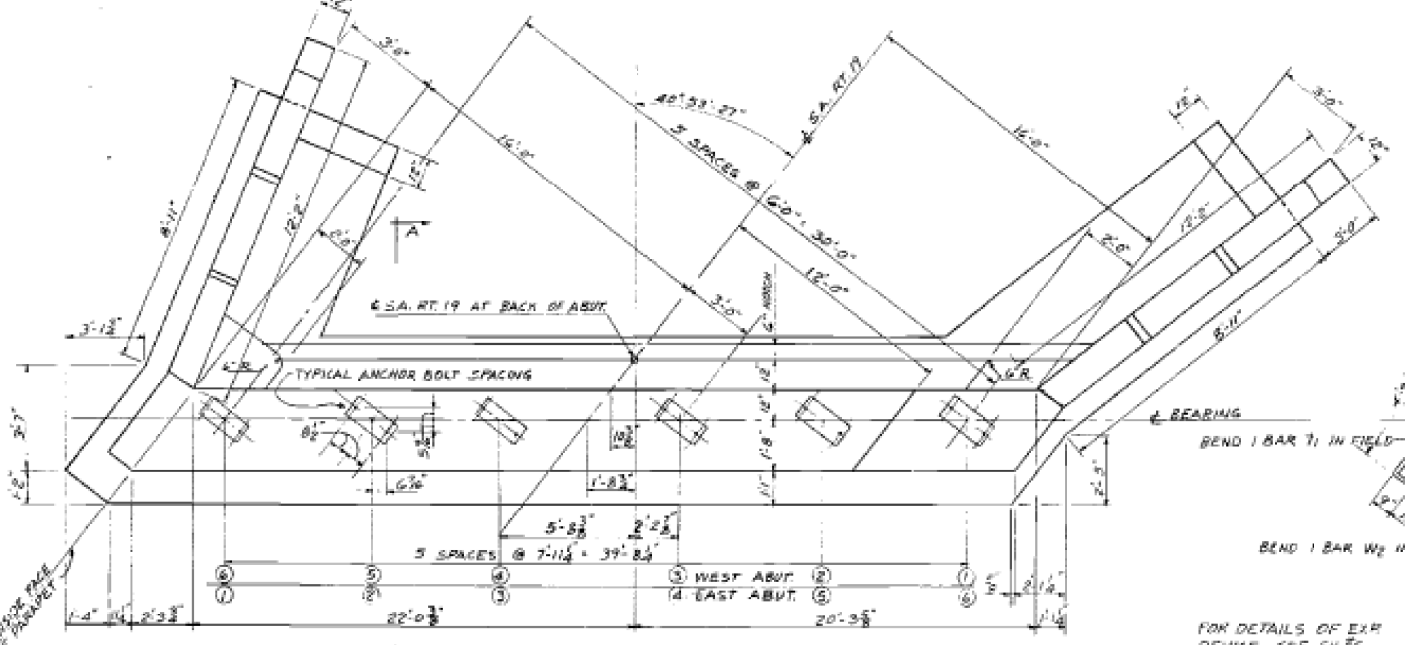
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	100' L-SIDE	100' R-SIDE
74	17-B	MCLEAN	33	11

PROJECT: ILLINOIS STATE HIGHWAY PROJECT  
SHEET NO. 2 OF 9



**PILE DATA**  
CAPACITY - 26 TONS  
TYPE - CONCRETE (SEE SH #8 FOR ALTERNATES)  
ESTIMATED LENGTH - 45 FT.  
NO. REQ'D - 30 (15 FOR EACH ABUTMENT)  
(INCLUDES ONE TEST PILE)



**2 ABUTMENTS**  
**BILL OF MATERIAL**

BAR NO.	SIZE	LENGTH	SHAPE	NO.	SIZE	LENGTH	SHAPE
U1	#4	22'-0"	U1	#8	#6	7'-9"	U1
U2	#4	24'-0"	U2	#8	#6	1'-6"	U2
U3	#4	4'-9"	U3	#6	#4	3'-9"	U3
U4	#5	5'-0"	U4	#4	#4	5'-5"	U4
U5	#5	11'-0"	U5	#4	#4	5'-3"	U5
U6	#4	21'-8"	U6	#6	#4	3'-0"	U6
U7	#5	11'-7"	U7	#6	#4	5'-9"	U7
U8	#4	10'-7"	U8	#6	#4	5'-6"	U8
U9	#4	10'-7"	U9	#6	#4	10'-6"	U9
U10	#5	11'-7"	U10	#6	#4	8'-0"	U10
U11	#4	4'-9"	U11	#6	#4	11'-6"	U11
U12	#4	22'-2"	U12	#6	#4	5'-2"	U12

**BILL OF MATERIAL**

ITEM	UNIT	QUANT.
CLASS I CONCRETE	CU YDS.	122.6
REINFORCEMENT BARS	LSB	159.0
CONCRETE PILES	LN FT.	1506
CONCRETE TEST PILES	EA.	1

**EAST & WEST ABUTMENTS**  
K.A.I. ROUTE 74 SECTION 57-17 HB-3  
C.H. ROUTE 19 OVER F.A.I. ROUTE 74  
STATION 1535+92.53  
MCLEAN COUNTY

WARREN AND VAN PRAAG, INC.  
CONSULTING ENGINEERS - DECATUR, ILLINOIS

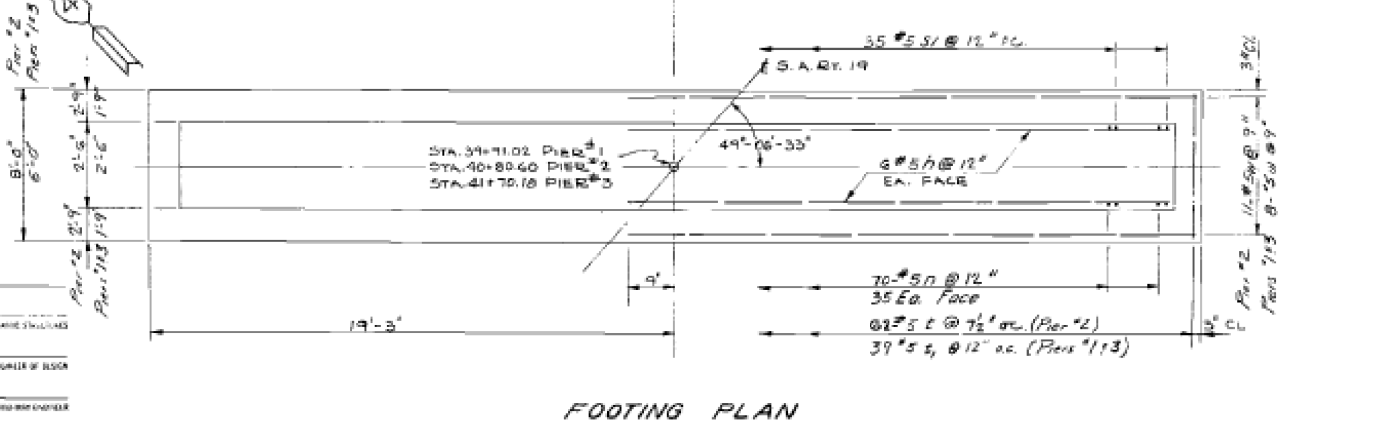
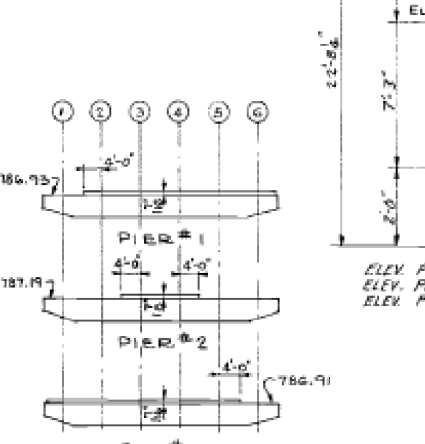
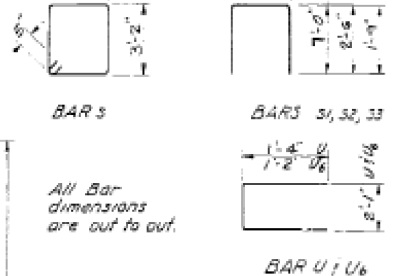
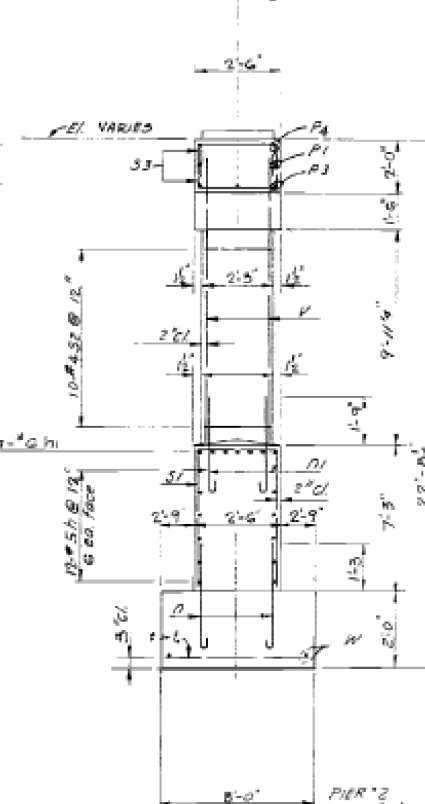
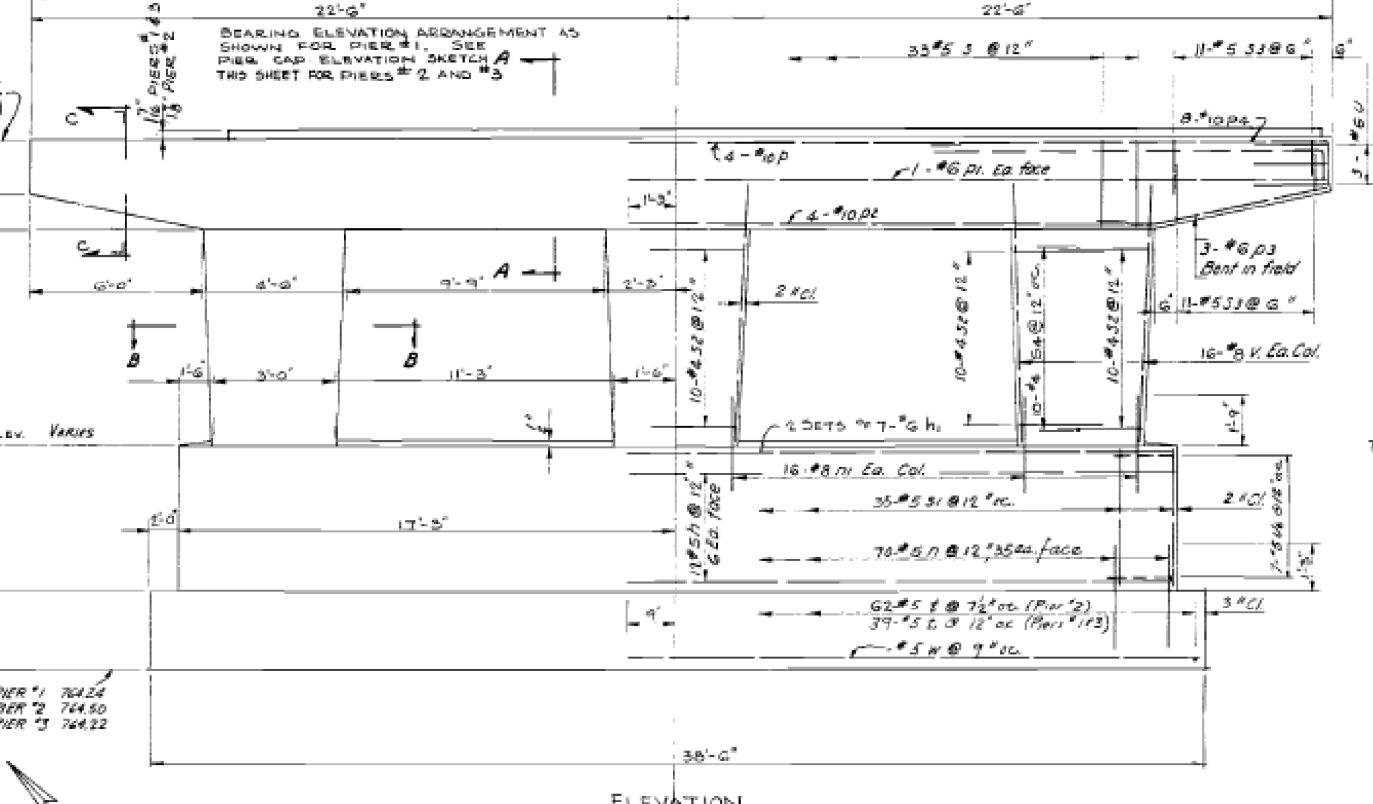
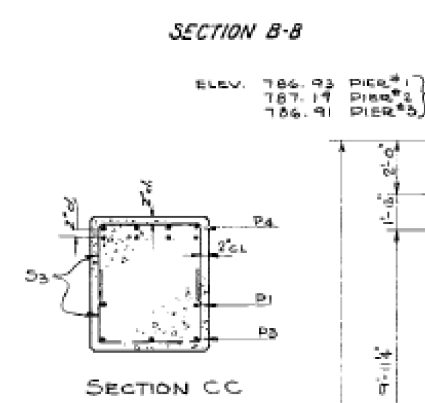
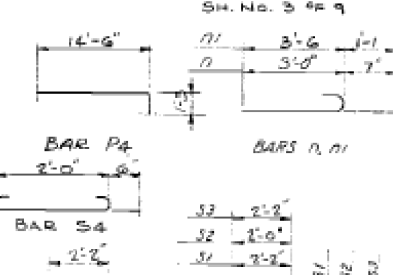
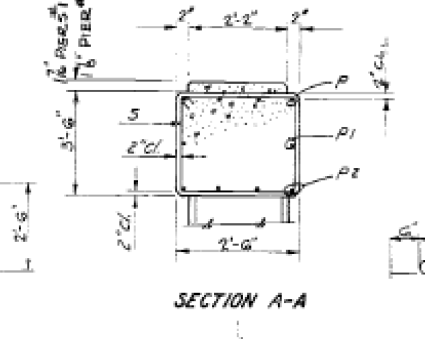
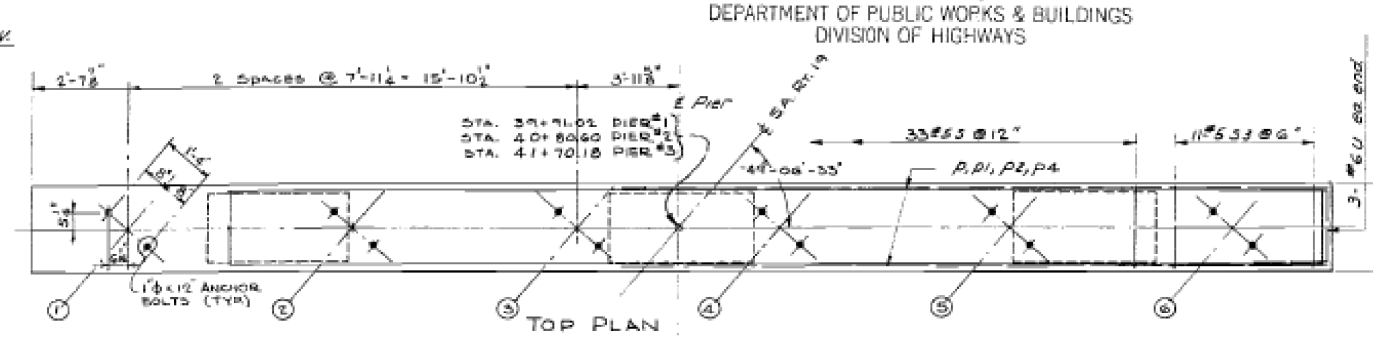
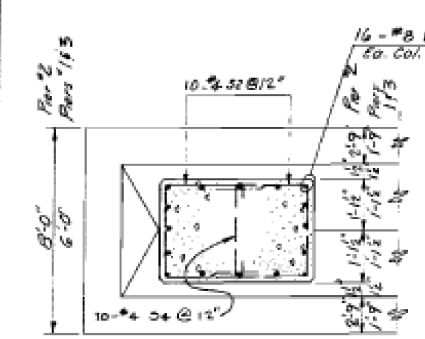
DESIGNED	H. J. K.	EXAMINED	
CHECKED	R. H. M.	PAIRED	
DRAWN	H. J. K.	APPROVED	
CHECKED	P. H. M.		

NOTE: ALL DIMENSIONS SHOWN ON BENT BARS ARE OUT TO OUT.

NOTE: BATTER ALL PILES IN FRONT ROW 2" IN 12"

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

ROUTE NO.	SEC.	COUNTY	SHEETS	SHEET
FA. 1	57-17	MC LEAN	33	12
ROUTE NO.	FED. ROAD DIST. NO.			
113	113			



PIERS #1, 2 & 3  
BILL OF MATERIALS 3 PIERS

Bar	No.	Size	Length	Shape
h	72	#5	17'-10"	U
h1	42	#6	17'-10"	U
h2	210	#5	3'-7"	U
h3	164	#5	4'-7"	U
P	12	#10	18'-0"	U
P1	12	#6	22'-0"	U
P2	24	#10	17'-9"	U
P3	18	#6	7'-6"	U
P4	48	#10	15'-9"	U
S	49	#5	11'-0"	U
S1	105	#5	16'-2"	U
S2	180	#4	7'-0"	U
S3	132	#5	5'-8"	U
S4	90	#4	3'-0"	U
T	62	#5	7'-8"	U
U	78	#5	5'-8"	U
U1	18	#6	4'-9"	U
U2	42	#5	4'-5"	U
V	144	#8	11'-8"	U
W	54	#5	19'-10"	U

Class X Concrete cu. yd. 1967  
Reinforcement Bars lbs. 23290  
Class A Excavation cu. yd. 360

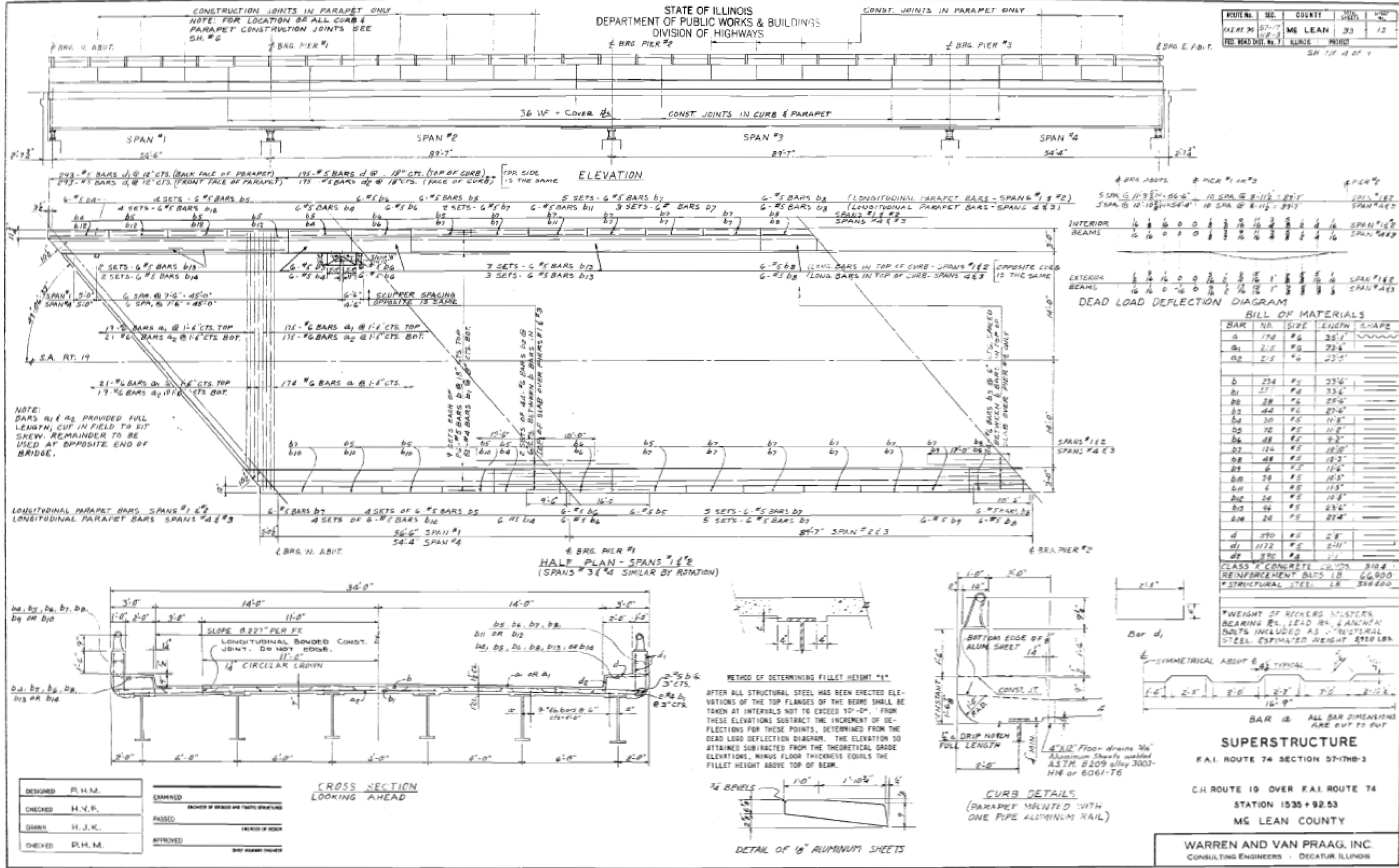
PIERS NO. 1, 2, & 3  
F.A.I. ROUTE 74 SECTION 57-17 HB-3  
CH ROUTE 19 OVER F.A.I. ROUTE 74  
STATION 1535+92.53  
MC LEAN COUNTY

WARREN AND VAN PRAAG, INC.  
CONSULTING ENGINEERS-DECATUR, ILLINOIS

DESIGNED	R.H.M.	DATE	
CHECKED	H.J.K.	DATE	
DRAWN	P.H.M.	DATE	
CHECKED	H.J.K.	DATE	

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

ROUTE NO.	SEC.	COUNTY	SHEET NO.	TOTAL SHEETS
74	57-17	MC LEAN	33	13
FED. ROAD DIST. NO.	KLING	PROJECT	SH 111-A OF 1	

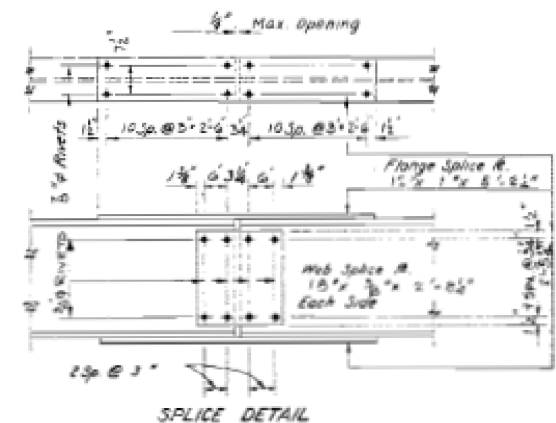
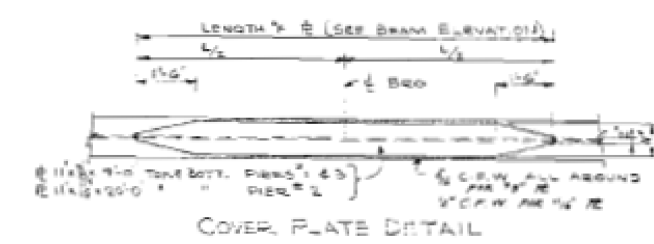
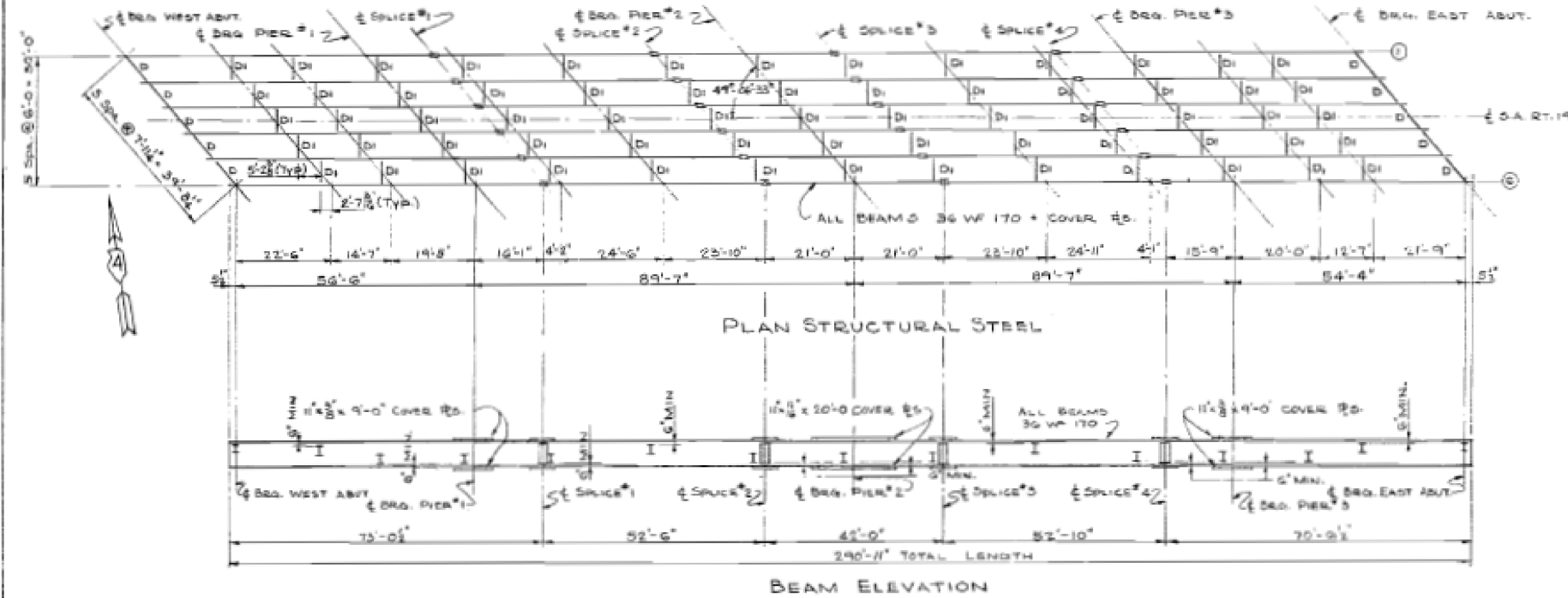


DESIGNED	P.H.M.	EXAMINED	
CHECKED	H.Y.F.	PASSED	ENGINEER OF BRIDGE AND TRUSS STRUCTURE
DRAWN	H.J.K.	PASSED	ENGINEER OF BRIDGE
CHECKED	P.H.M.	APPROVED	DEPT. ROADWAY ENGINEER

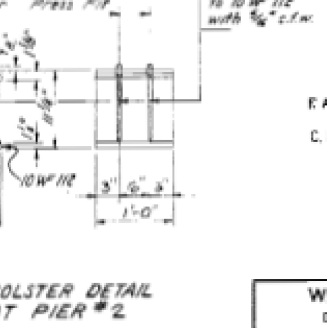
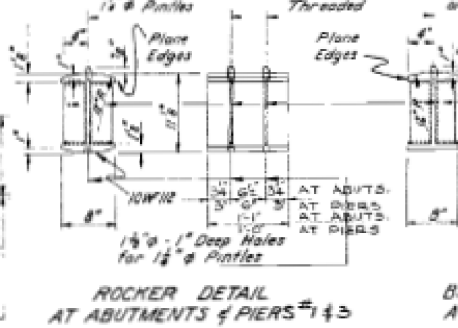
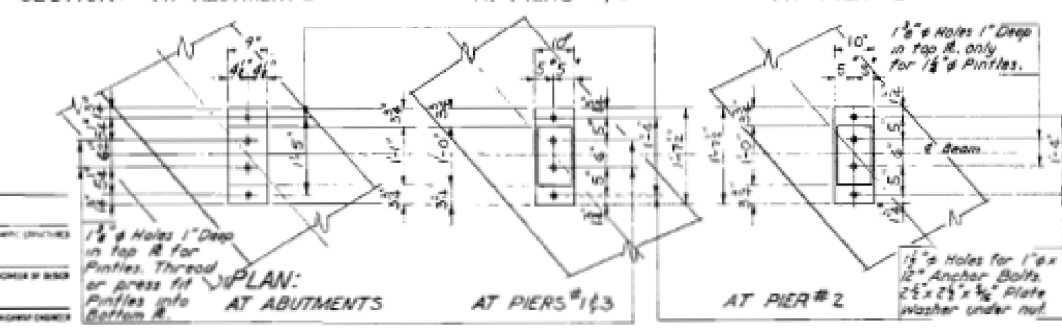
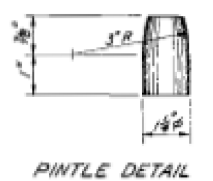
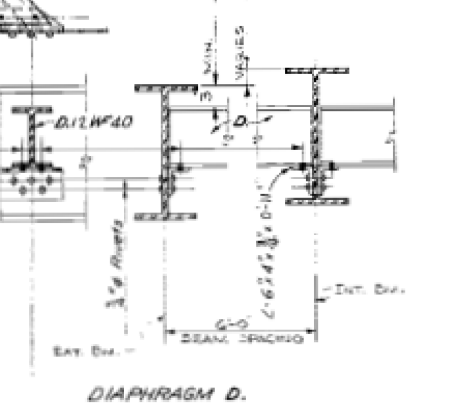
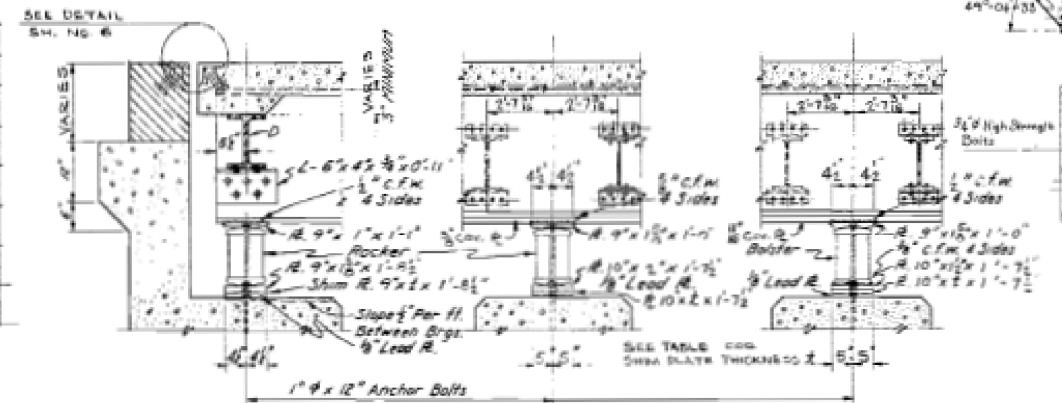
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	STATION	SHEET
F.A.I. 74	57-17	MC LEAN	53	14
RT. 74	MC-3	ILLINOIS		
PIA. ROAD DIST. NO.				

OH. NO. 5 96 9



BEAM NUMBER	SHIM PLATE THICKNESS (t)			
	W. ABUT.	PIER #1	PIER #2	E. ABUT.
1				3/8"
2			1/2"	1/2"
3	1/2"	1/2"		1/2"
4	1/2"	1/2"		1/2"
5	1/2"	1/2"	1/2"	
6	1/2"			



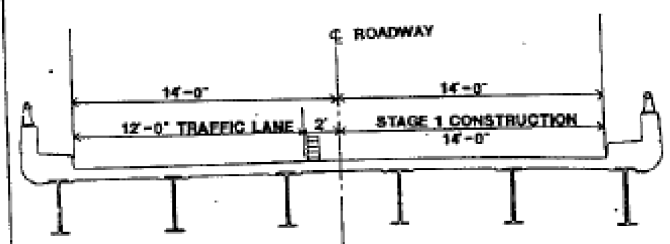
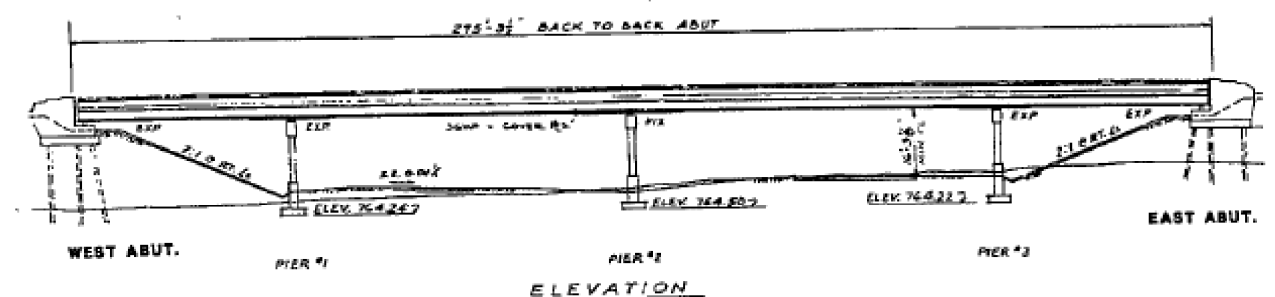
**SUPERSTRUCTURE  
STRUCTURAL STEEL**  
F.A.I. ROUTE 74 SECTION 57-17 HB-3  
C.H. ROUTE 19 OVER F.A.I. ROUTE 74  
STATION 1535+92.53  
MC LEAN COUNTY

**WARREN AND VAN PRAAG, INC.**  
CONSULTING ENGINEERS - DECATUR, ILLINOIS

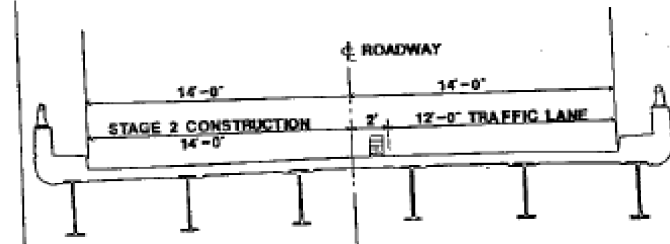
DESIGNED	P. H. M.	DRAWN	P. H. M.
CHECKED	H. J. K.	APPROVED	
CHECKED	H. J. K.		

PROJECT NO.	REV.	DATE	TITLE	SHEET NO.
FAI 74			WOODFORD, MCLEAN	104

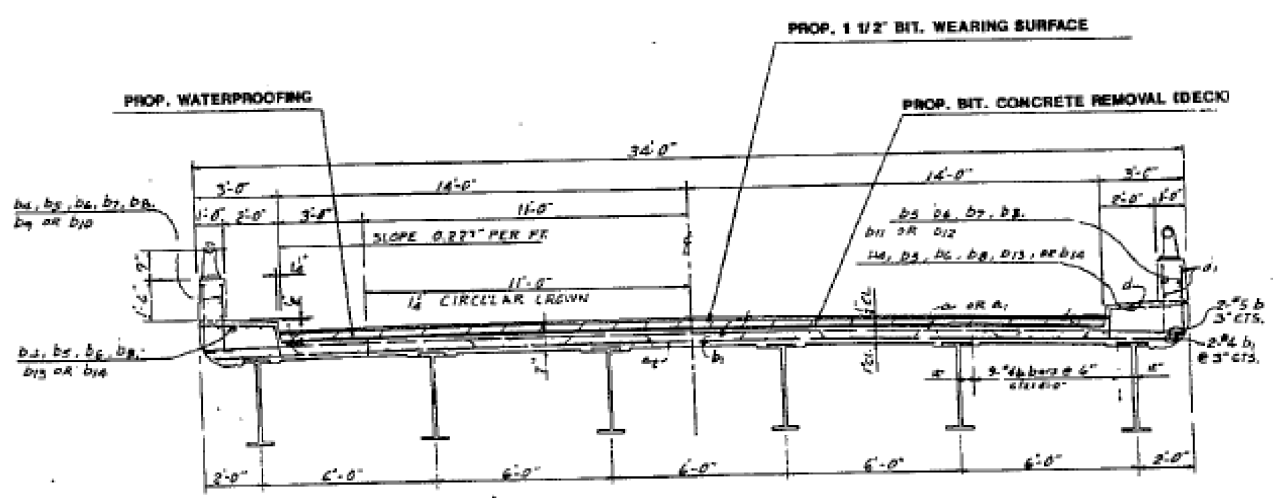
\* (CS-17182) (S-17183), S-2 (S-17185-2)  
 (CS-15,17,17-17) S-2 (CS-1718-2) (CS-1718-2) (CS-1718-2)



CROSS SECTION  
(LOOKING IN THE DIRECTION OF TRAFFIC)



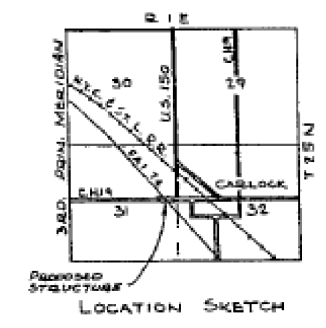
CROSS SECTION  
(LOOKING IN THE DIRECTION OF TRAFFIC)



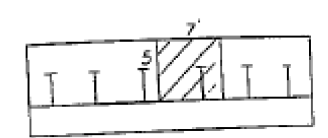
CROSS SECTION

EXISTING STEEL

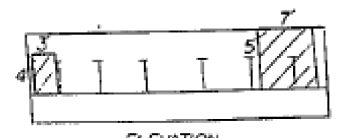
BAR	SIZE
a	# 6
a1	# 6
a2	# 6
b	# 5
b1	# 4
b4	# 5
b5	# 5
b6	# 5
b7	# 5
b8	# 5
b9	# 5
b10	# 5
b11	# 5
b12	# 5
b13	# 6
b14	# 5
d	# 5
d1	# 5
d2	# 5



LOCATION SKETCH



ELEVATION  
W ABUT



ELEVATION  
E ABUT

AREAS OF UNSOUND CONCRETE TO BE REPAIRED

FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5"). SQ. FT.  
 CARLOCK RD. (CH 53) OVER I-74 82  
 TOTAL 82 SQ. FT.

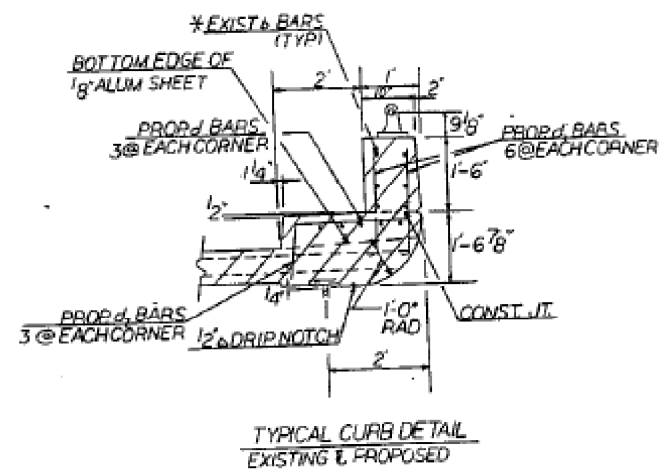
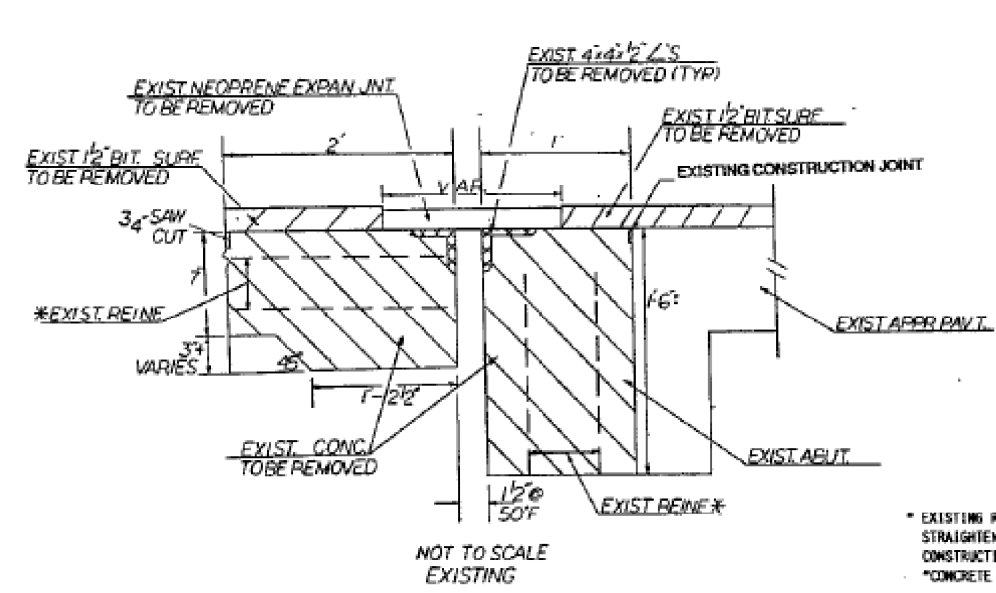
CH 53 (CARLOCK ROAD) OVER FAI ROUTE 74

SN 057-0102  
 SEC. (57-17HB-3)I

ELEVATION VIEW & TYPICAL SECTION

PROJECT NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
PAI 74	6	WOODFORD, MORGAN		105

\* CES-17181 (67-17181), I-1 (67-17181-01)  
 CES-14,17,87-17181-2 (13-17181-014-0 003-14181)



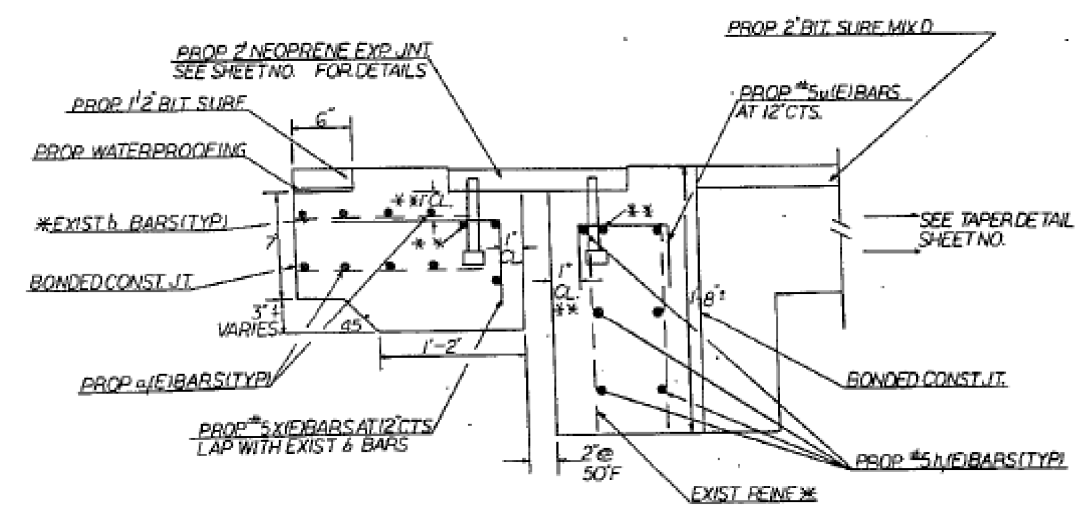
\* EXISTING REINFORCEMENT SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION. COST TO BE INCIDENTAL TO "CONCRETE REMOVAL".

HATCHED AREAS INDICATE CONCRETE REMOVAL.

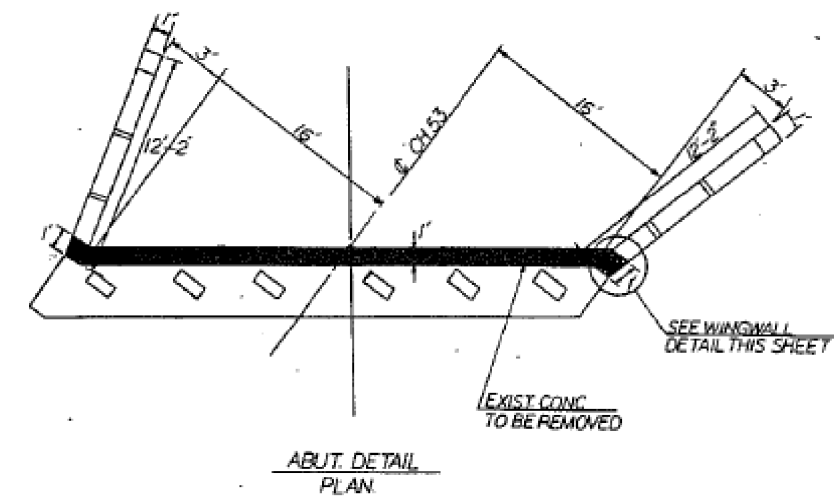
**BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH	SHAPE
a(E)	40	#6	22'-3"	
d(E)	12	#5	2'-8"	
d(E)	24	#5	2'-11"	
d(E)	12	#4	1'-7"	
h(E)	24	#5	21'-0"	
u(E)	88	#5	1'-11"	
x(E)	88	#5	2'-5"	
CONC REMOVAL		CU. YD.	113	
GLASS X CONC.		CU. YD.	124	
REINF BARS (EPOXY COATED)		LBS	2448	
NEOP EXP. JT. 2'		LIN. FT.	90	

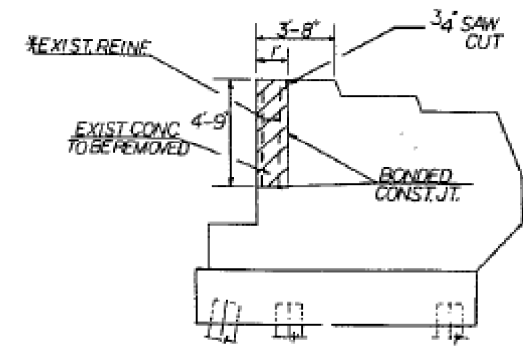
NOTE: REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.



NOT TO SCALE  
 PROPOSED  
 CH 53 (CARLOCK) OVER I-74  
 EAST AND WEST ABUTMENTS

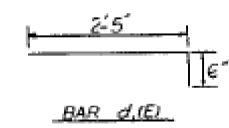
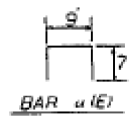
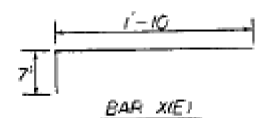


ABUT. DETAIL  
 PLAN



WINGWALL DETAIL  
 ELEVATION

\*\* PLACE a(E) AND h(E) BARS IN BACK OF ANCHOR BOLT AS SHOWN IF REQUIRED TO MAINTAIN 3\"/>



CH 53 (CARLOCK ROAD) OVER I-74  
 EXPANSION JOINT DETAILS  
 S.N. 057-0102

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	REVISED	BY	APP. NO.	SHEET NO.
FAL 74		WOODRUFF, MCKEAN	109	

Joint Size	C° at 50°F	T° at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

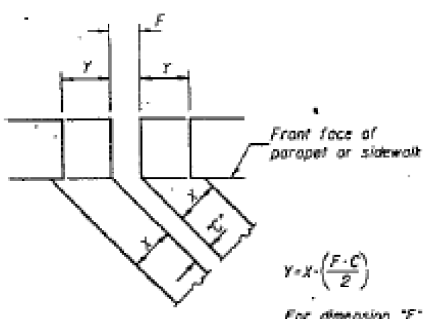
**INSTALLATION NOTES**

- Install sponge mandrels into positions shown to form flap convolution.
- Install parapet or sidewalk piece (trim roadway flap to fit before applying epoxy).
- Install continuous seal in roadway.
- Install anchor blocks as indicated.

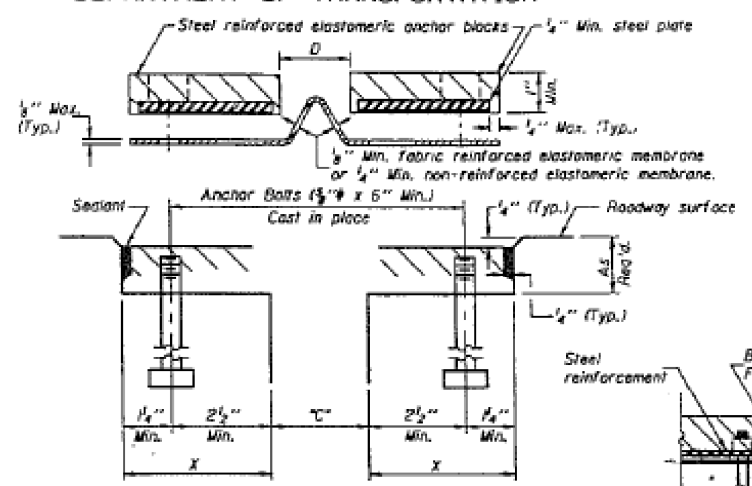
NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

**SKREW LIMITATIONS**

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skew. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed in accordance with dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at 12" cts.



**FORMING BLOCKOUT SKETCH**



**CROSS SECTION**

**ANCHOR BLOCK REINFORCEMENT WITH ASPHALT SURFACE**

**GENERAL NOTES**

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. See Special Provisions.

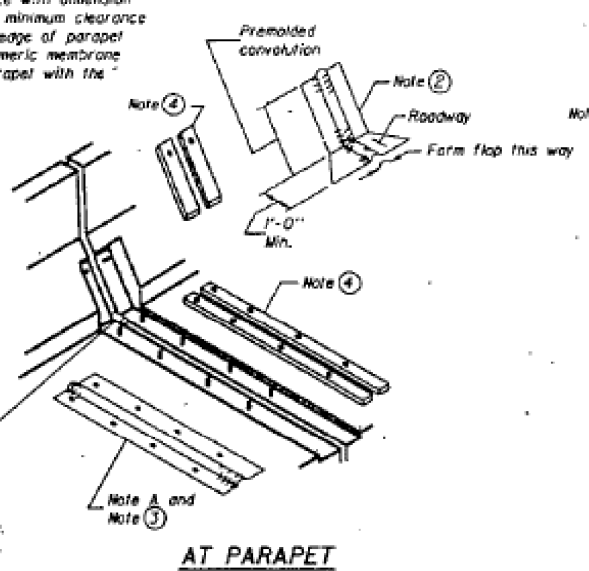
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The steel reinforcement must extend up the back face of anchor blocks when asphalt surfaces are used but is optional in concrete blockout.

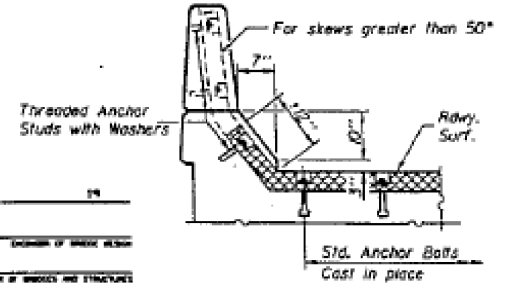
The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

Joint openings shall be adjusted in accordance with Article 503.07(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

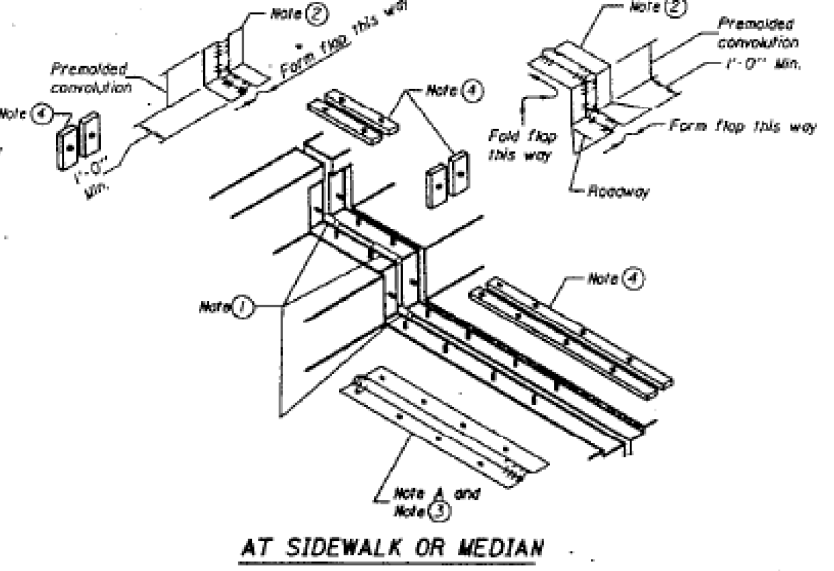
The parapet and sidewalk flaps may be furnished factory vulcanized to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.



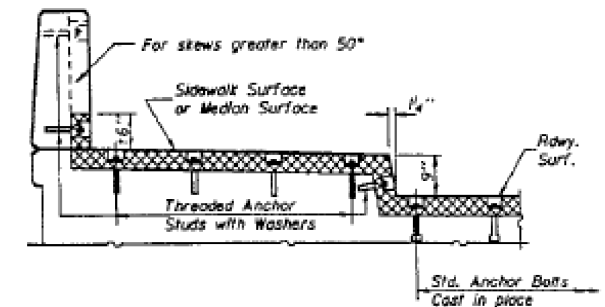
**AT CURB**



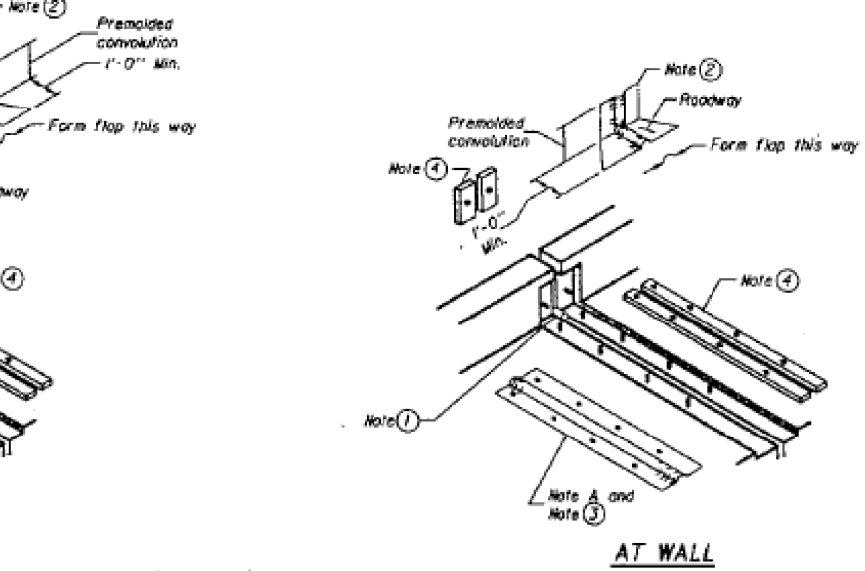
**AT PARAPET**



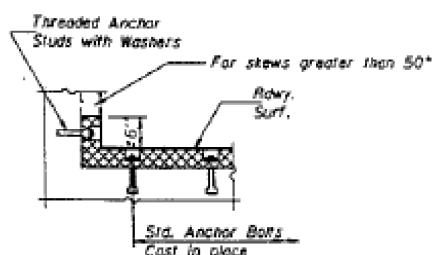
**AT SIDEWALK OR MEDIAN**



**AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS**



**AT WALL**



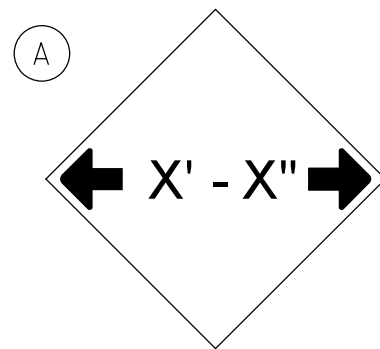
**AT WALL**

**CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS**  
For 2", 2 1/2" and 4" Movement

DESIGNED	EXAMINED
CHECKED	DRAWN
DRAWN	CHECKED
CHECKED	

EJ-CS 6-1-89

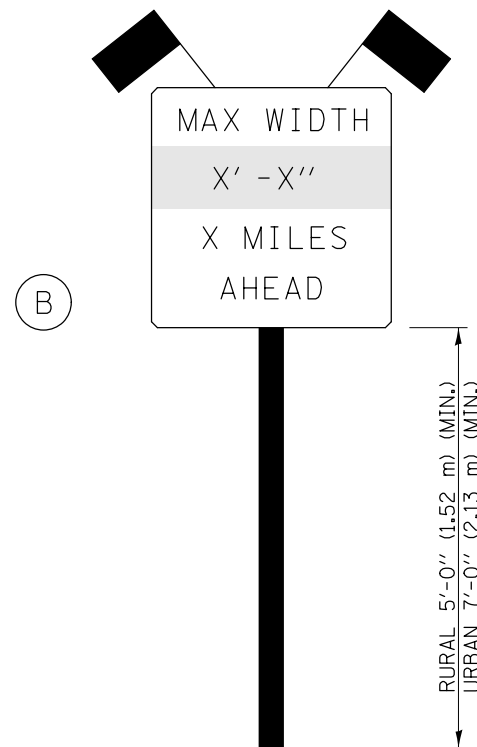




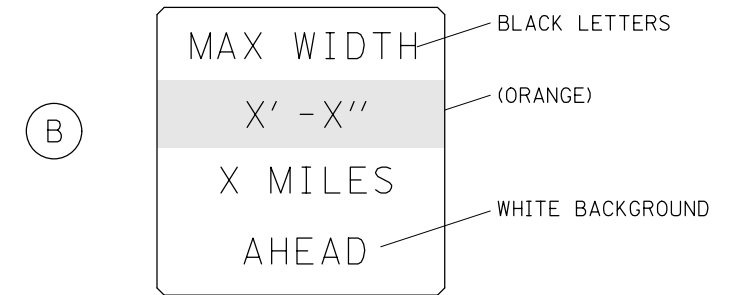
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. X7200201**

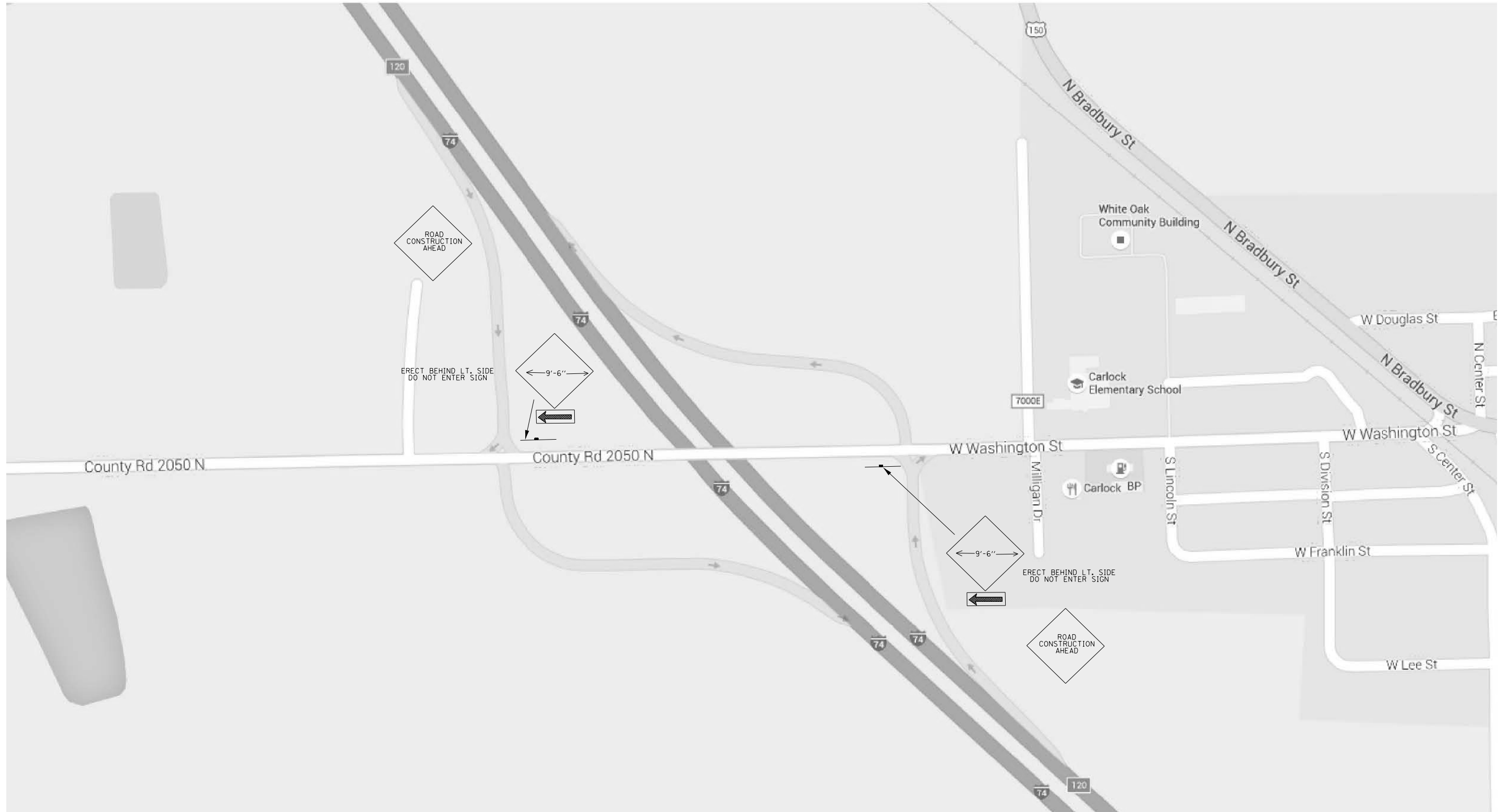
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pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0579-DRAWING\05790833-shr-details.dwg		DRAWN -	REVISED - 05/08
		CHECKED -	REVISED - 10/08 - KJT
		DATE -	REVISED - 7/09 - KJT

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			36	32
CONTRACT NO. 70B33				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED - 11/06
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0570833\Drawings\Design\0570833-shr-details.dwg		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
71	(57-17)BDR,I	MCLEAN	36	33
CONTRACT NO. 70B33				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



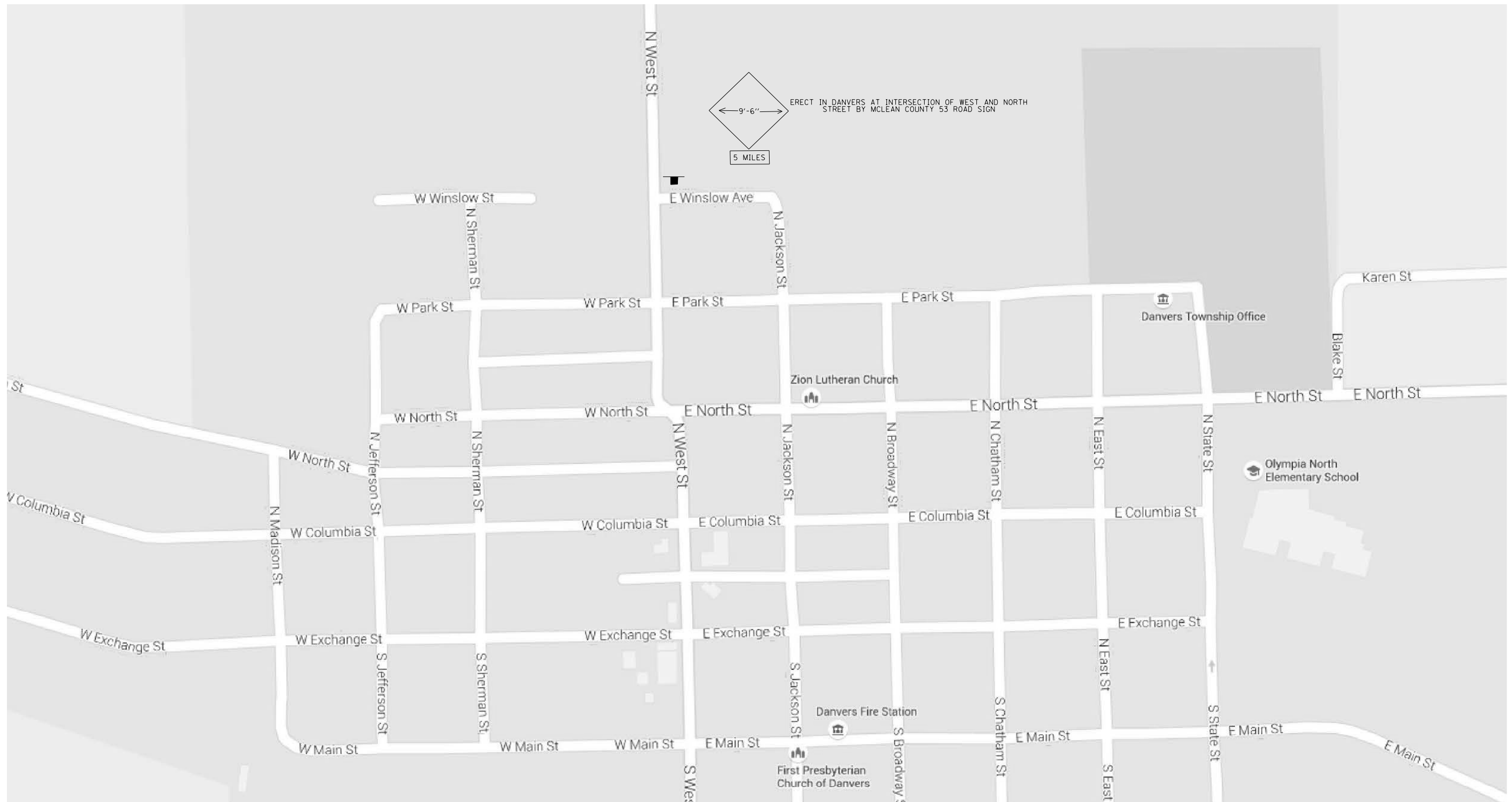
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
71	(57-17)BDR,I	MCLEAN	36	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B33	



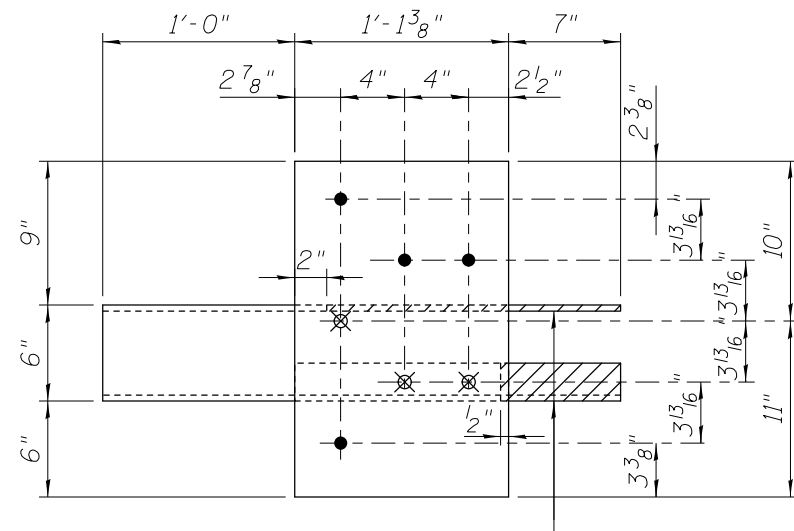
FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED - 11/06
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0577\Drawings\05770833-sht-details.dwg		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

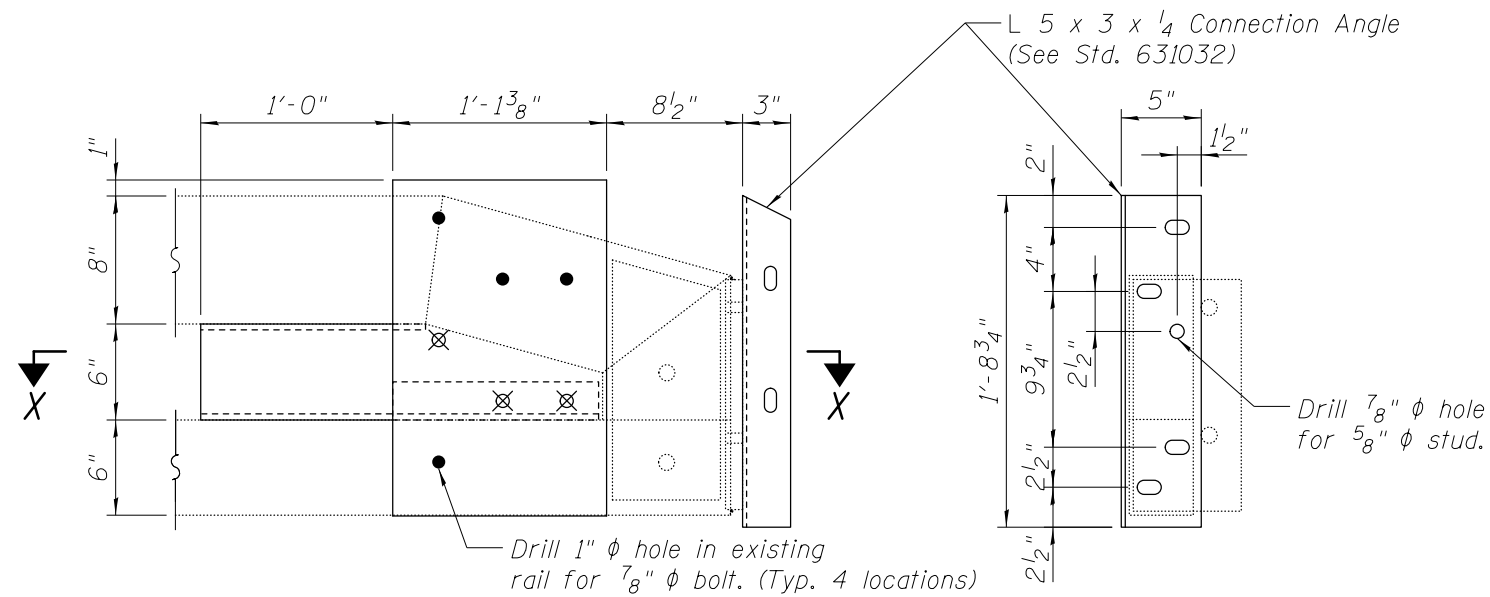
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
71	(57-17)BDR,I	MCLEAN	36	35
CONTRACT NO. 70842				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



Hatched portions of  $\frac{3}{8}$ " Plate and L 4 x 4 x  $\frac{3}{8}$  shall be removed or omitted. If removed after galvanizing, the exposed bare metal shall be coated with an approved zinc rich paint.

**GUARDRAIL CONNECTION PLATE ASSEMBLY**

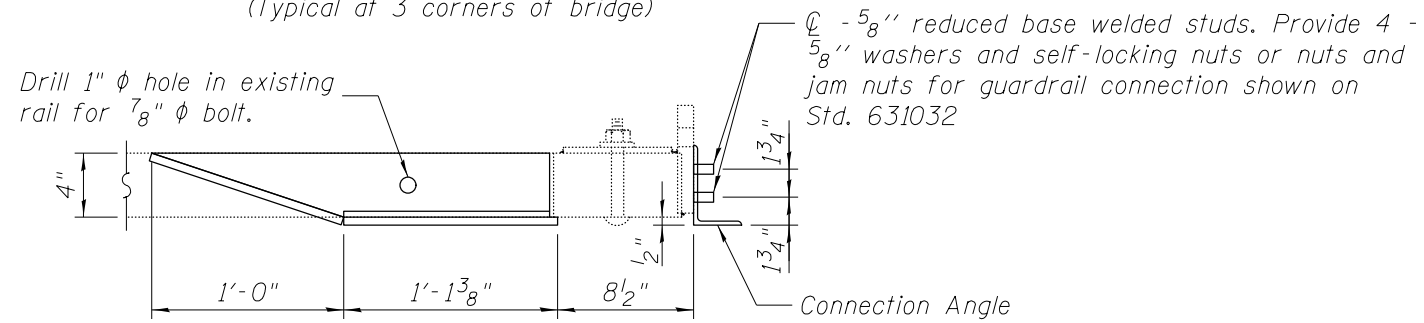
(Modified from Std. 631032)



**END OF RAIL DETAILS**

(Typical at 3 corners of bridge)

**END VIEW**



**SECTION X-X**

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\05steelrail.dgn		DRAWN -	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 1/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC BARRIER TERMINAL TYPE 6A  
(MODIFIED) MOUNTING DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-17)BDR,I	MCLEAN	36	36
CONTRACT NO. 70B33				
ILLINOIS FED. AID PROJECT				