

119

98%

7-7-2001

F.A.I. ROUTE 55 (I-55)

SECTION (57-3-1,57-3,57-3-2,57-2)RS

McLEAN COUNTY PROJ. ACIM-55-5(99)166

C-93-001-00

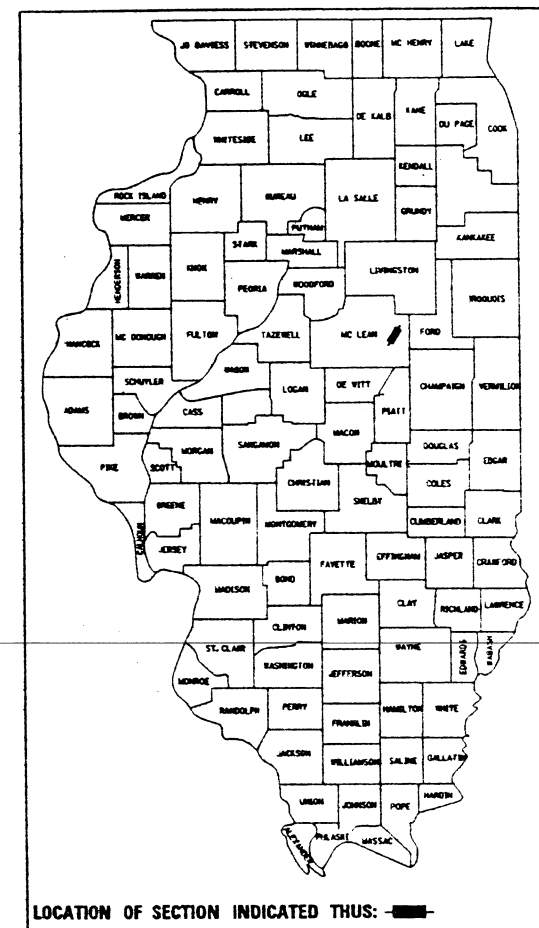
END IMPROVEMENT
STA. 625 + 00

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEETS NO.
55	*	McLEAN	139	1
F.A.I. REC. 1		ILLINOIS	PROJECT	

* (57-3-157-357-3-257-2)R

P-93-043-99

D-93-021-00



DESIGN DESIGNATION - INTERSTATE
ADT (2000) = 27300
P.V. - 79.5%
S.U. - 2.5%
M.U. - 18.0%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 13, 1960
James C. Smith
DISTRICT ENGINEER
February 4, 20 00
Bill Hunkley
ENGINEER OF DESIGN AND ENVIRONMENT
February 4, 20 00
James C. Smith
DIRECTOR, DIVISION OF HIGHWAYS

3-21

057-0163 8-0164

13. 2000
EUD2100\ SHEETS.DGN

STANDARDS

000001-03	Standard Symbols, Abbreviations And Patterns
001001	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot
420001-02	Pavement Joints
420401-02	Bridge Approach Pavement
420701	Pavement Fabric
442001-02	Class A Patches
442101-02	Class B Patches
482006	Bituminous Shoulder - Adjacent To Rigid Pavement
482101	Rumble Strip For PCC or Bituminous Shoulder
542301	Precast Reinforced Concrete Flared End Section
601001	Sub-Surface Drains
601101	Concrete Headwall For Pipe Drains
606301-02	PC Concrete Islands And Medians
609001-01	Bridge Approach Shoulder Pavement And Drain
630001-02	Steel Plate Beam Guardrail
630201-03	PCC/Bit Stabilization At Steel Plate Beam Guardrail
630301	Shoulder Widening For Type I Guardrail Terminals
631031-02	Traffic Barrier-Terminat, Type 6
635001	Delineators
635006	Reflector and Terminal Marker Placement
635011	Reflector Marker and Mounting Details
665001	Woven Wire Fence
701001	Off-Road Operations, 2-L, 2-W, 4.5 m (15') Min. Away, For Speeds > 45 MPH
701006-01	Off-Road Operations, 2-L, 2-W, 4.5 m (15') To 600 mm (24"), Away, Speeds > 45 MPH
701011	Off-Road Moving Operations, 2-L, 2-W, Day Only, For Speeds > 45 MPH
701101	Off-Road Operations, Multilane, Less Than 4.5 m (15') Away, Speeds > 45 MPH
701106	Off-Road Operations, Multilane, More Than 4.5 m (15') Away, For Speeds > 45 MPH
701201-01	Lane Closure, 2-L, 2-W, Day Only, On-Rd To 600 mm (24") Off-Rd For Speeds > 45 MPH
701316-01	Lane Closure, 2-L, 2-W, Bridge Repair, For Speeds > 45 MPH
701326-01	Lane Closure, 2-L, 2-W, Pavement Widening, For Speeds > 45 MPH
701401	Lane Closure Multilane with Barrier, For Speeds > 45 MPH
701402	Lane Closure Multilane with Barrier
701411-01	Lane Closure, Multilane, At Entrance Or Exit Ramp, For Speeds > 45 MPH
701426-01	Lane Closure, Multilane, Intermittent Or Moving Operation, For Speeds > 45 MPH
702001-01	Traffic Control Devices
704001	Temporary Concrete Barrier
720011	Metal Posts (signs, markers, and delineators)
780001-01	Typical Pavement Markings
781001-02	Typical Applications, Raised Reflective Pavement Markers
840006	Traffic Signal Mounting Details
846001	Detector Loop Installations
846006	Typical Layout For Detection Loops

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: STEVE ANDREWS

UNIT CHIEF: MICHELE LINDEMANN

TOWNSHIP: NORMAL, TOWANDA & MONEY CREEK

CONTRACT NO. 86963 057-0163(SB) 0164(NB)

BEGIN IMPROVEMENT
STA. 53+75 S.B.
STA. 39+00 N.B.

S.N. 057-0166
STA. 571 + 30

S.N. 057-0163
S.N. 057-0164
STA. 322 + 95

S.N. 057-0162
STA. 259 + 36.01

S.N. 057-0169
S.N. 057-0170
STA. 608 + 35.40

S.N. 057-0167
S.N. 057-0168
STA. 588 + 37.50

S.N. 057-0801
STA. 571 + 67

S.N. 057-0165
STA. 464 + 85.00

GROSS & NET LENGTH OF IMPROVEMENT:

S.B. = 54,100.19 FT. = 10.25 MI.

N.B. = 52.951.28 FT. = 10.03 MI.

STATION EQUATION S.B. 51+14.53 BK. = 86+60.28 AH.

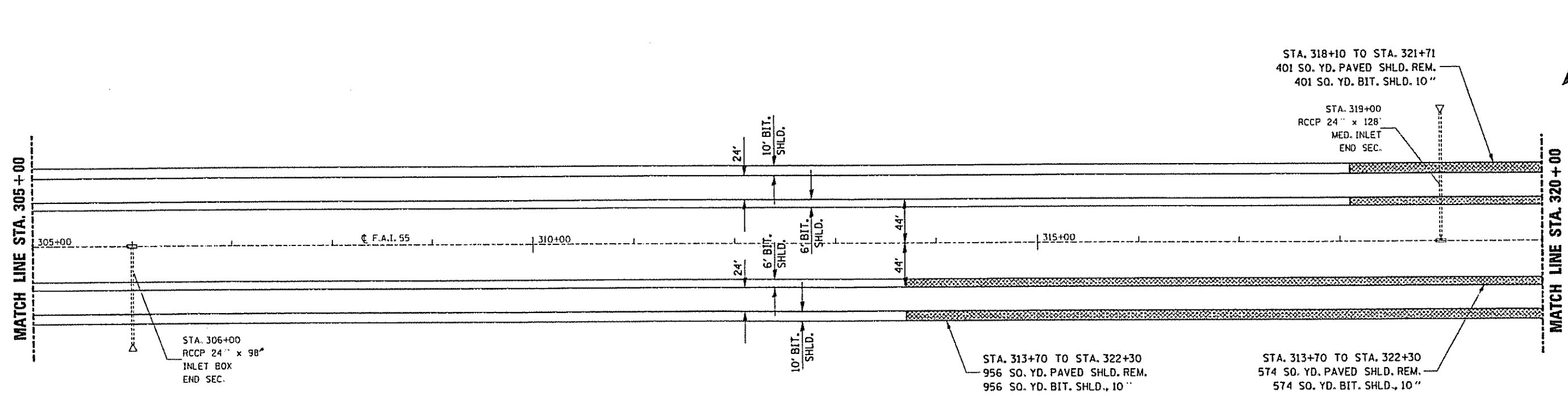
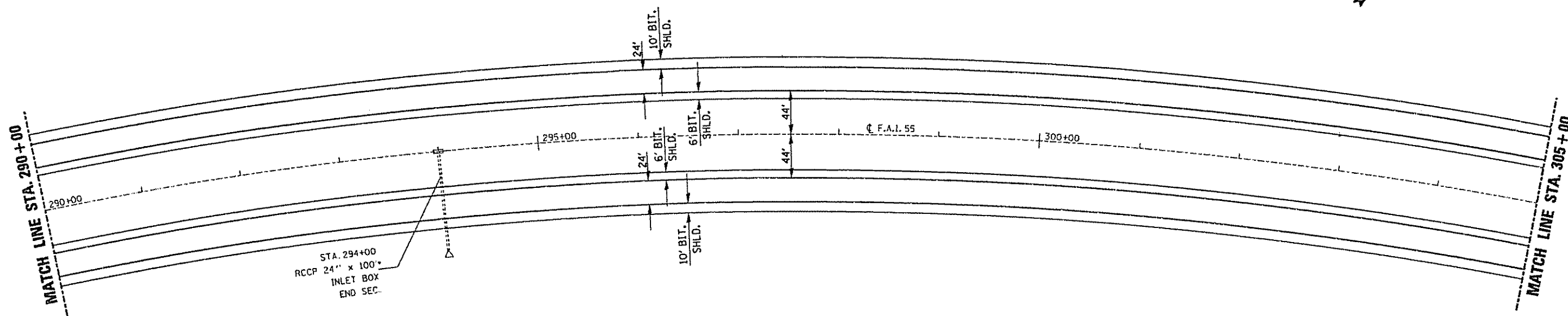
STATION EQUATION N.B. $36+03.18 \text{ BK.} = 98+45.54 \text{ AH.}$

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (57-3-1, 57-3, 57-3-2, 57-21) RS				

MAINLINE SCHEDULE																
LOCATION	LENGTH	PAV'T AREA	BIT. CONC. SURF. CSE. SUPERPAVE	BIT. CONC. BIND CSE SUPERPAVE	BIT SHLDR	BIT SHLDR 10"	PAVED SHLDR REM	AGG SHLDS	BIT SURF REM (BUTT JT)	TEMP RAMP	BIT MAT (PR CT)	AGG (PR CT)	LEVEL BIND (HMI)	MIX FOR CRACKS, JTS & FLGWYS	MEDIAN REM PART. DEPTH	PCC SURF REM (BUTT JT)
	FOOT	SQ YD	TON	TON	TON	SO YD	SO YD	TON	SO YD	SO YD	GALLON	TON	TON	TON	SO FT	SO YD
NORTHBOUND LANES:																
40+60 TO 39+00	160	640.0	55.7	65	53.6			13.2	405	240	51.2	1.3	0.3	0.2		
39+00 TO 36+03.18	296.82	1187.3	103.3	120.5	99.5			24.4			95	2.4	0.6	0.4		
98+45.54 TO 111+48.72	1303.18	5212.7	453.5	529.1	436.7			107.2			417	10.4	2.6	1.6		
111+48.72 TO 117+48.72	600	2000.0	174	203	201.1			49.4			160	4	1	0.6		
117+48.72 TO 322+00	20451.28	54536.7	4744.7	5535.5	6853.5	1530.0	1529.7	1682.2		107	4362.9	109.1	27.3	16.4		
322+00 TO 323+89	STRUCTURE NUMBER 057-0164															
323+89 TO 586+74	26285	70093.3	6098.1	7114.5	8808.4	2111.0	2173.7	2162		213	5607.5	140.2	35	21		
586+74 TO 590+01	STRUCTURE NUMBER 057-0168															
590+01 TO 606+63	1662	4432.0	385.6	449.8	557.0	2072.0	2170.7	136.7		213	354.6	8.9	2.2	1.3		
606+63 TO 610+08	STRUCTURE NUMBER 057-0170															
610+08 TO 625+00	1492	3978.7	346.1	403.8	500.0	576.0	640.0	122.7		107	318.3	8	2	1.2		
625+00 TO 626+30	130	346.7	30.2	35.2	43.6			10.7	89	133	27.7	0.7	0	0.1		133
SOUTHBOUND LANES:																
55+35 TO 53+75	160	426.7	37.1	43.3	46.9			13.2	296	160	34.1	0.9	0.2	0.1		
53+75 TO 51+14.53	260.47	1884.2	163.9	191.2	87.3			21.4	311	160	150.7	3.8	0.9	0.9	411	
86+60.28 TO 89+87.56	327.28	1967.5	171.2	199.7	109.7			26.9			157.4	3.9	1	0.6	2161	
89+87.56 TO 97+25	737.44	3523.3	306.5	357.6	247.1			60.7			281.9	7	1.8	1.1		
97+25 TO 120+60.28	2335.28	9341.1	812.7	948.1	782.6			192.1			747.3	18.7	4.7	2.8		
120+60.28 TO 126+60.28	600	2000.0	174	203	201.1			49.4			160	4	1	0.6		
126+60.28 TO 322+00	19539.72	52105.9	4533.2	5288.7	6548.0	1530.0	1529.7	1607.2		107	4168.5	104.2	26.1	15.6		
322+00 TO 323+89	STRUCTURE NUMBER 057-0163															
323+89 TO 586+74	26285	70093.3	6098.1	7114.5	8808.4	2108.0	2171.9	2162		213	5607.5	140.2	35	21		
586+74 TO 590+01	STRUCTURE NUMBER 057-0167															
590+01 TO 606+63	1662	4432.0	385.6	449.8	557.0	2047.0	2171.1	136.7		213	354.6	8.9	2.2	1.3		
606+63 TO 610+08	STRUCTURE NUMBER 057-0169															
610+08 TO 625+00	1492	3978.7	346.1	403.8	500.0	576.0	640.4	122.7		107	318.3	8	2	1.2		
625+00 TO 626+30	130	346.7	30.2	35.2	43.6			10.7	89	133	27.7	0.7	0.2	0.1		133
MAINT. CROSSOVERS:																
110+00		171.1	14.9	17.4							64.2					
199+75		171.1	14.9	17.4							64.2					
412+70		171.1	14.9	17.4							64.2					
614+75		171.1	14.9	17.4							64.2					
RAMPS:																
RAMP A	2636	7283.0	633.6	739.2	552.1			433.6	56	461	582.6	14.6	3.6	2.2		461
RAMP B	1685	5347.0	465.2	542.7	352.9			277.2	56	450	427.8	10.7	2.7	1.6		450
RAMP C	2540	7378.0	641.9	748.9	532.0			417.8	56	333	590.2	14.8	3.7	2.2		333
RAMP D	1690	5334.0	464.1	541.4	354.0			278.0	56	442	426.7	10.7	2.7	1.6		442
					1000.0	1000.0	1000.0									
TOTAL	114460.5	318553.2	27714.2	32333.1	38276.1	13550.0	14027.2	10118.1	1414.0	3792.0	25686.3	636.1	158.8	95.7	2572.0	1952.0

*CONTINGENCY QUANTITY ADDED FOR DETERIORATION AND LOW SHOULDER AREAS

P.L.S. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	McLEAN	139	36
STA. 290+00		TO STA. 320+00		
POLYMER BIT. NO.		ILLUMIN	POLYMER PROJECT	
* 157-3-1, 57-3, 57-3-2, 57-2-RS				



STA. 318+10 TO STA. 321+71
401 SO. YD. PAVED SHLD. REM.
401 SO. YD. BIT. SHLD. 10"

STA. 319+00
RCCP 24" x 128"
MED. INLET
END SEC.

STA. 313+70 TO STA. 322+30
956 SO. YD. PAVED SHLD. REM.
956 SO. YD. BIT. SHLD., 10"

STA. 313+70 TO STA. 322+30
574 SO. YD. PAVED SHLD. REM.
574 SO. YD. BIT. SHLD., 10"

NOTE:
CONCRETE HEADWALLS SHALL BE ADDED TO
ALL EXISTING PIPE UNDERDRAIN OUTLETS
FROM STA. 53+75 TO STA. 391+00

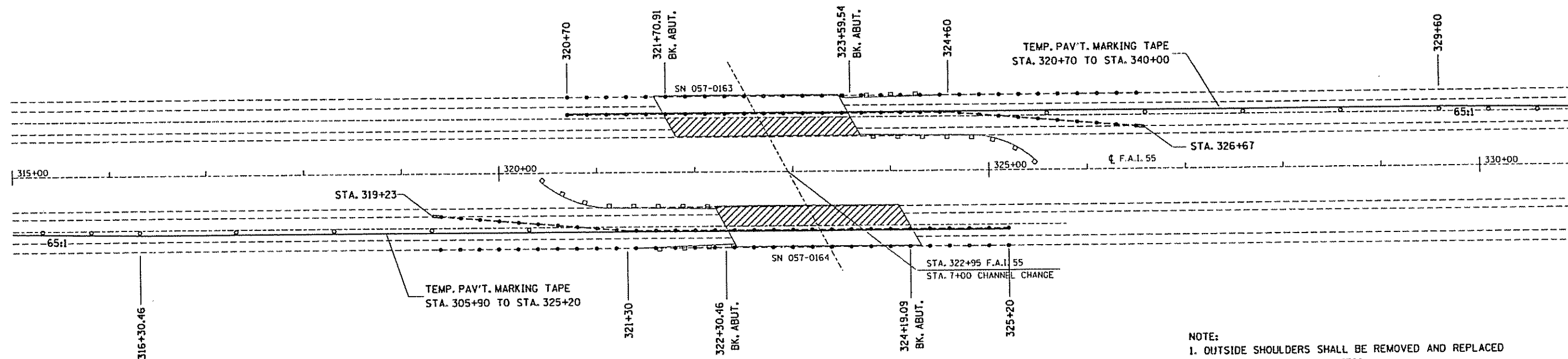
STA. 290+00 TO STA. 320+00



STA. 320+00 TO STA. 350+00

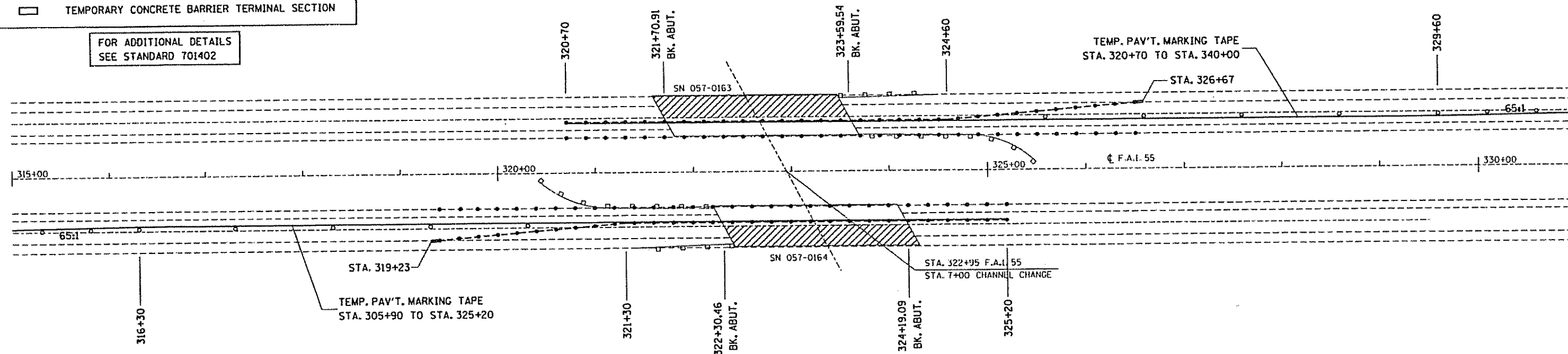
SHOULDER REMOVAL & REPLACEMENT		
S.N.	STATIONS	
057-0163	318+10 TO 321+71.	323+60 TO 332+20
057-0164	313+70 TO 322+30,	324+19 TO 327+80

F.A.L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	0	MCLEAN	139	48
STA.		TO STA.		
FOL. NAME DIST. NO.		ELLIPSE	FOL. FOR PROJECT	
W (57-3-L57-3-2-57-2)WS				



- NOTE:**
1. OUTSIDE SHOULDERS SHALL BE REMOVED AND REPLACED PRIOR TO STAGE I CONSTRUCTION.
 2. MEDIAN SHOULDERS SHALL BE REMOVED AND REPLACED PRIOR TO STAGE II CONSTRUCTIONS.

STAGE I



**STAGE II
STAGING PLANS**

S.N. 057-0163 & S.N. 057-0164

057-0164 Stage II

meas: RU, SS, JMK 8-12-00
CALC: RU 9-1-00

9

Deck Slab Repair

Insp: RU, JMK 8-29-00

✓ 201 9/1/00

STA.	Patch #	OFFSET From Parap.	L	W	Area (yd ²)
322+50	1	18.5	19	20'	.29
322+61	2	17.5	54"	23 1/2"	.98
322+69	3	17.5	57 1/4"	25 1/2"	1.13
322+75.5	4	11.0	31 1/2"	35'	.85
322+82	5	0'-13'	6.0	35 1/2"	1.97
322+86	6	0'-20'	6'6"	88"	5.30
322+90	7	12.5'	53"	29"	1.19
322+95	8	0'-10.5'	9'0"	33"	2.75
322+95	9	15.5'	23"	23"	0.4
323+00	10	2.0	29'	25"	0.56
323+04	11	18.5	30 1/2'	37"	0.82
323+09	12	7.5	27"	24"	0.5
323+09	13	5.5	26"	24 1/2"	0.49
323+08	14	17.0	49"	21 1/2"	0.81
323+13	15	5.0	25 1/2"	88"	1.73
323+12.5	16	11.5	25"	30"	0.75
323+12.5	17	16.0	22"	33 1/2"	0.57
323+15	18	18.5	21 1/2"	31"	0.51
323+19	19	0'-16'	16'0"	23 1/2"	2.48
323+22	20	18.5	39 1/2"	35"	1.07
323+28	21	0'-3.25'	36"	32"	.79
323+35	22	7.5	20"	20"	0.31
323+39	23	0'-6.5'	36"	77"	2.14

Depth

2 1/4 2 1/2 2 3/4
2 1/2 2 1/2 2 3/4
2 1/4 3 2 1/2
3 2 1/4 2 1/4 3 1/2 3 1/4
2 2 1/4 2
3 2 1/4 2 1/2
2 3/4 2 1/2
2 3
2 1/4 1 3/4
1 3/4 2 1/4
2 1/4 3 3/4
2 1/2 2 3/4
2 3/4 3 1/2
2 1/2 2 1/2 2
2 1/4 2 2 1/4
2 1/2 3 2
2 1/4 2 2 1/4
2 1/4 3 3 1/4
2 1/2 2
2 1/2 2 1/2 3
2 1/4 2
2 3/4 2 1/2 1 3/4

Deck Slab Repair Cont.

Calc: 20 9-1-00

Imp: RU, JMK 8-29-00

10

✓ 20th 9/100

Deck Slab Repair Cont.					
Station	Patch #	OFFSET From As Rep'd	L	W	Area yd ²
323+44	24	0-6.0'	5.0'	25"	1.116
323+55	25	14.0	6.0'	28"	1.56
323+56.5	26	7.0	32"	20"	0.49
323+67	27	10	31"	21 1/2"	0.51
323+78	28	19	31"	38"	0.91
323+80	29	17	28"	25"	0.54
323+84	30	18.5	34"	50"	1.31
323+98	31	17.0	34 1/2"	26"	0.69
324+03	32	6.0	37"	28"	0.85
324+11	33	0-8.75'	38"	50"	3.01
324+16	34	0-3.58	44"	34"	1.15
					41.55 yd ²
Pay 41.6 yd ²					

Imp: 20, JNK 8-29-00

✓ BtH 9/100

Depth

2 1/2	3 1/2	3
2 1/4	2 1/4	1 3/4
2 1/2	2 3/4	
3	2 3/4	
2 1/2	2	
3	1 1/2	
2	3 1/2	2 1/4
2 1/2	2	
2 1/4	2 1/2	
3 1/4	3	2 3/4
3	1 3/4	

STAGE I

DELIK PATCHES
MONEY CREEK (S.B.)
S.N. 057-0163

Q-22-00 35
MEAS CS, KH
CALL KH
✓ BT. CS 07/10/00

PATCH #	STA.	OFFSET	LENGTH	WIDTH	AREA FT ²	YD ²	DEPTH
1	323+29.1	17'	1.5'	3.35'	4.85 ⁵	54.56	.18
2	323+25	10.7'	1.27'	1.93'	3.2	30.27	.18
3	323+18	6.7'	3.12/2.08	2.75/2.65	8.58/5.51	1.57	.17
4	323+06.5	3.5'	1.5/1.63	7.90/5.07	11.7/8.52	2.25	.20
5	323+00	10.9'	1.67	2.12'	3.54	.39	.22
6	322+99	14.92'	1.24	1.31	1.62	.18	.14
7	321+96.4	4.3'	2.63/2.12	8.35/2.06	21.96/4.37	2.93	.21
8	319+85.5	2.8'	2.19'	3.91	8.56	.95	.15
9	319+80	3.15'	2.12'	3.38	7.17	.80	.13
10	319+60	.5'	2.42	7.71	18.66	2.07	.21
11	319+52	.64'	3.07'	6.42	19.71	2.19	.18
12	319+50	1.47'	2.12'	5.93	12.57	1.40	.14
13	319+45	.52'	2.42'	5.50	13.31	1.48	.17
14	319+40	3.10'	1.83	4.82	8.82	.98	.21
15	319+30	1.75'	1.97'	4.68	9.22	1.02	.17
16	319+27	2.20'	2.10'	4.97	10.44	1.16	.19
17	319+22	4.43'	1.90'	4.45	4.66	.52	.15
18	319+10	2.05'	2.17	6.45	14.0	1.56	.18

TOTAL = ~~22.35~~ 22.29 YD²

STAGE I

DECK PATCHES

MONEY CREEK (N.B.I.)

SIN. 057-0164
ZOO 16200 - DECK SLAB REPAIR (PARTIAL)

PATCH #	STA.	(PARADET) OFFSET	LENGTH	WIDTH	AREA FT ²	TD ²	DEPTH
1	322+53	8.4	1.23	1.50	1.84	0.20	.11
2	322+62	11	3.46	2.55	8.82	1.00	.13
3	322+62	17.5	1.50	1.65	2.48	0.28	.15
4	322+70	10	2.49	11.0	27.39	3.04	.14 & .14
5	322+72	11.3	2.70	7.0	18.9	2.10	.14
6	322+83	7.5	2.04	12.25	25.0	2.78	.15 & .12
7	322+85	1.5	4.78	2.95	14.10	1.57	.14
8	322+85	10.9	1.39	1.42	1.97	0.22	.12
9	322+93	.80	1.74	2.47	4.30	0.48	.17
10	323+00	7.2	2.95	6.53	19.26	2.14	.15 & .16
11	323+04	10.5	3.67	7.08	26.0	2.89	.19 & .15
12	323+18	6.1	2.87	3.69	10.60	1.18	.18
13	323+40	5.5	2.02	2.40	4.84	0.53	.20
14	323+52	1.5	2.76	1.62	4.47	0.50	.17
15	323+55	10.5	2.34	2.24	5.33	0.59	.15
16	323+66	17.5	1.95	1.80	3.51	0.39	.14
17	324+02	5.7	1.94	2.07	4.01	0.44	.14
18	324+06	17.4	1.65	2.05	3.38	0.38	.13

20.7 20.73 20.7

7-15-00 (46)

MEAS - KTH TJ

INST - QRA

CALC - CRA

✓ BY EOH

7/1/00

SEE TOR #

(p.g. #35)

SHEET II

Z0016200

DECK SLAB REPAIR (PARTIAL)

MONEY CREEK BRIDGE - SB

051-0163

PATCH NO.	STA.	EDGE OFFSET	LENGTH	WIDTH	AREA FT^2
1	322+21	9.8 L	1.15	1.3	1.5
2	322+24	12.5 L	1.40	4.10	5.7
3	322+32	9.2 L	1.25	1.60	2.0
4	322+32	3.6 L	2.0	1.45	2.9
5	322+38	8.4 L	3.2	1.90	6.08
6	322+45	11.8 L	1.85	4.5	8.32
7	322+53	0.5 L	1.25	1.25	1.6
8	322+90	11.7 L	2.40	3.80	9.12
9	322+93	8.7 L	1.70	2.20	3.74
10	322+96	8.8 L	2.10	2.70	5.67
11	323+00	9.0 L	5.0	2.5	12.5
12	323+03	17.0 L	3.75	2.05	7.69
13	323+06	9.0 L	2.0	1.8	3.6
14	323+41	6.0 L	1.70	4.65	7.9
15	323+44	6.1 L	1.55	1.75	2.71
16	323+48	3.3 L	5.70	2.0	11.4
17	323+51	6.5 L	1.40	4.10	5.74
18	323+55	4.7 L	1.55	3.10	4.8
19	323+55	9.0 L	1.50	1.90	2.9

✓ RTH
3/4/00

SO. Yd	DEPTH
0.17	.15
0.63	.15
0.22	.12
0.32	.15
0.68	.15
0.93	.13
0.17	.15
1.01	.18
0.41 0.42	.15
0.43	.15
1.39	.20
0.85	.22
0.40	.18
0.88	.15
0.30	.12
1.27	.18
0.63	.18
0.53	.20
0.31 0.32	.15
11.73 SO. Yd	

11.75 pay #762 11.75

67

07-28-00

INSR CRA

MEAS CRA

CALC: ERA, RU

QC/QA CONC

.001

.031

.009

.016

.034

.04

.009

.06

.02

.032

.093

.062

.024

.044

.012

.076

.033

.035

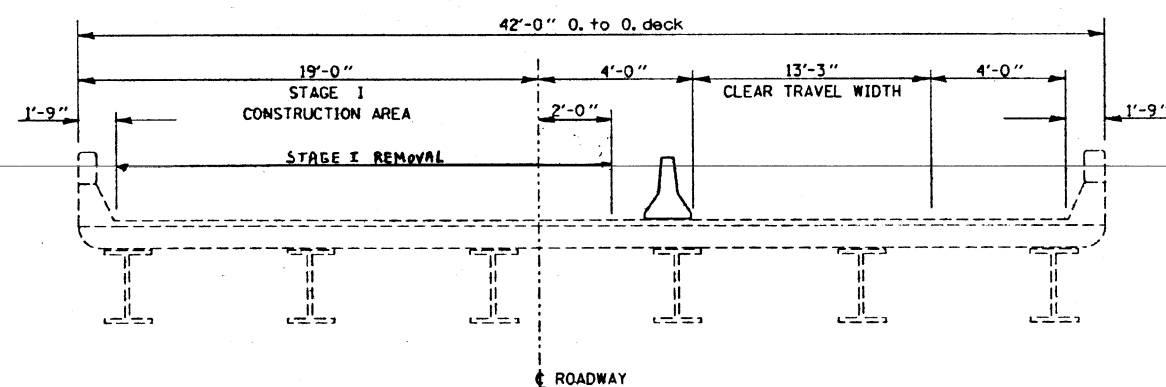
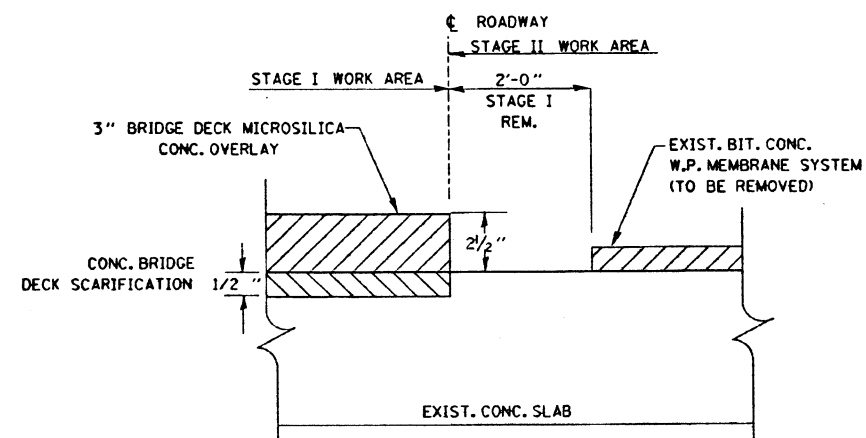
.016

.652 yd?

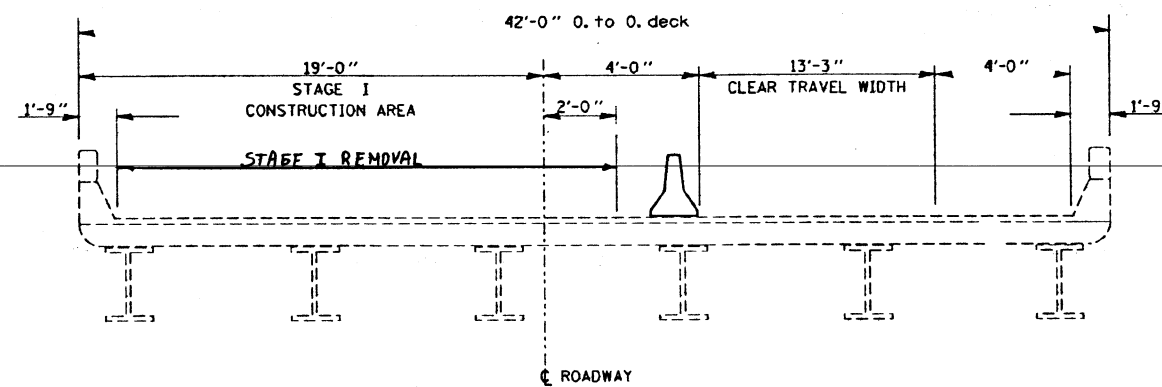
pay 0.7 yd?

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	62
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

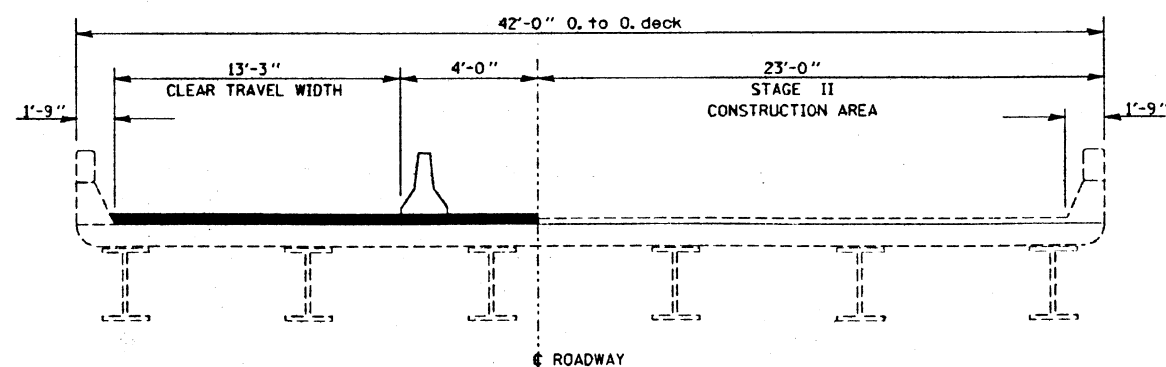
SHEET 1 of 15



STAGE I
LOOKING SOUTH

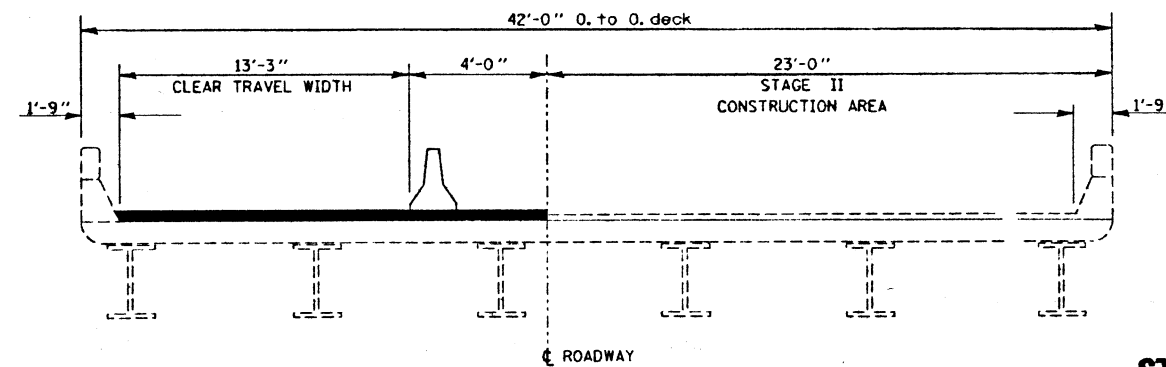


STAGE I
LOOKING NORTH



STAGE II
LOOKING SOUTH

STAGE CONSTRUCTION DIAGRAM
S.N. 057-0163

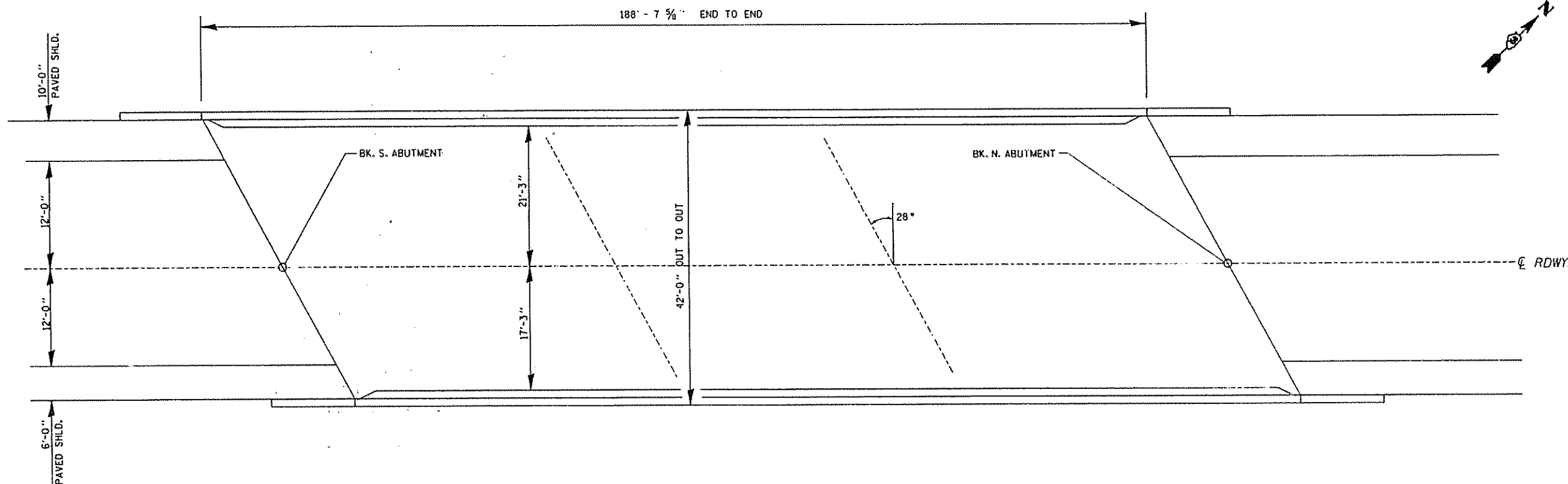


STAGE II
LOOKING NORTH

STAGE CONSTRUCTION DIAGRAM
S.N. 057-0164

STAGING DETAILS
F.A.I. 55 OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0163 & S.N. 057-0164

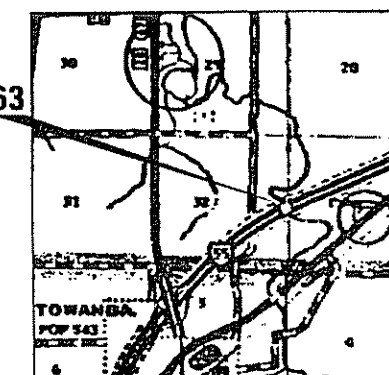
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	63
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• (57-3-1, 57-3, 57-3-2, 57-2) RS				
SHEET 2 of 15				



TOTAL BILL OF MATERIALS S.N. 057-0163			
CODE NO.	ITEM	UNIT	QUANT.
20300100	CHANNEL EXCAVATION	CU YD	500
28100105	STONE RIPRAP, CLASS A3	SQ YD	11
28100107	STONE RIPRAP, CLASS A4	SQ YD	143
28200100	FILTER FABRIC FOR USE WITH RIPRAP	SQ YD	167
44001000	BITUMINOUS CONCRETE REMOVAL (DECK)	SQ YD	807
50102400	CONCRETE REMOVAL	CU YD	6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	6
50300260	BRIDGE DECK GROOVING	SQ YD	765
50300300	PROTECTIVE COAT	SQ YD	823
50301245	FORMED CONCRETE REPAIR (DEPTH LESS THAN OR EQUAL TO 5")	SQ FT	84
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3385
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1859
59000100	EPOXY CRACK SEALING	FOOT	4
X0321468	PLUG EXISTING DECK DRAINS	EACH	20
Z0002600	BAR SPLICERS	EACH	22
Z0006110	BRIDGE DECK MICROSILICA CONCRETE OVERLAY	SQ YD	790
Z0012200	CONCRETE BRIDGE DECK SCARIFICATION (1/2 INCH)	SQ YD	790
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	2
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	12
*1002576	SILICONE JOINT SEAL - 2 1/2"	FOOT	47
*3000919	SILICONE JOINT SEAL - 1-1/2"	FOOT	47

NOTE:
SEE SHEET 3 OF 15 FOR GENERAL NOTES.

S.N. 057-0163



LOCATION SKETCH

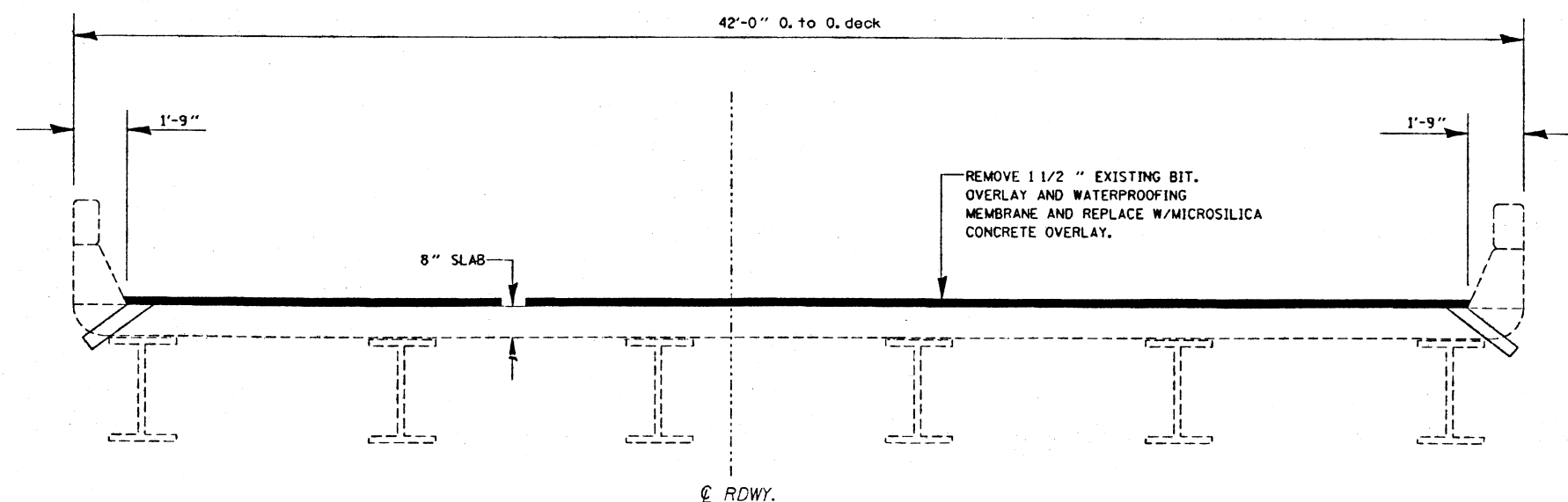
GENERAL PLAN
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322+95
S.N. 057-0163

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 3 of 15

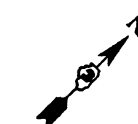
General Notes:

1. All structural steel shall conform to AASHTO Classification M-270 Gr. 36 unless otherwise noted.
2. All Structural steel shall be shop painted with Inorganic zinc rich primer per AASHTO M300, Type 1. The cost shall be included in the cost of Furnishing and Erecting Structural Steel.
3. The existing structural steel contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.
4. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
5. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in the cost of "Concrete Removal".
6. Existing longitudinal reinforcement extending into the removed area shall be cleaned, straightened and incorporated into the new construction. Existing transverse reinforcement may be cut as shown and removed.
7. Prior to pouring the new concrete for the deck, all loose rust, loose mill scale and all other loose, detrimental foreign material shall be removed from the portions of flanges of beams in contact with concrete. The removal shall be accomplished according to the requirements of the SSPC Surface Preparation Specifications SP-3 for power tool cleaning or SP-2 for hand tool cleaning. Cost shall be included in the cost of "Concrete Superstructure".
8. Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50 degrees Fahrenheit.
9. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



CROSS SECTION
LOOKING SOUTH

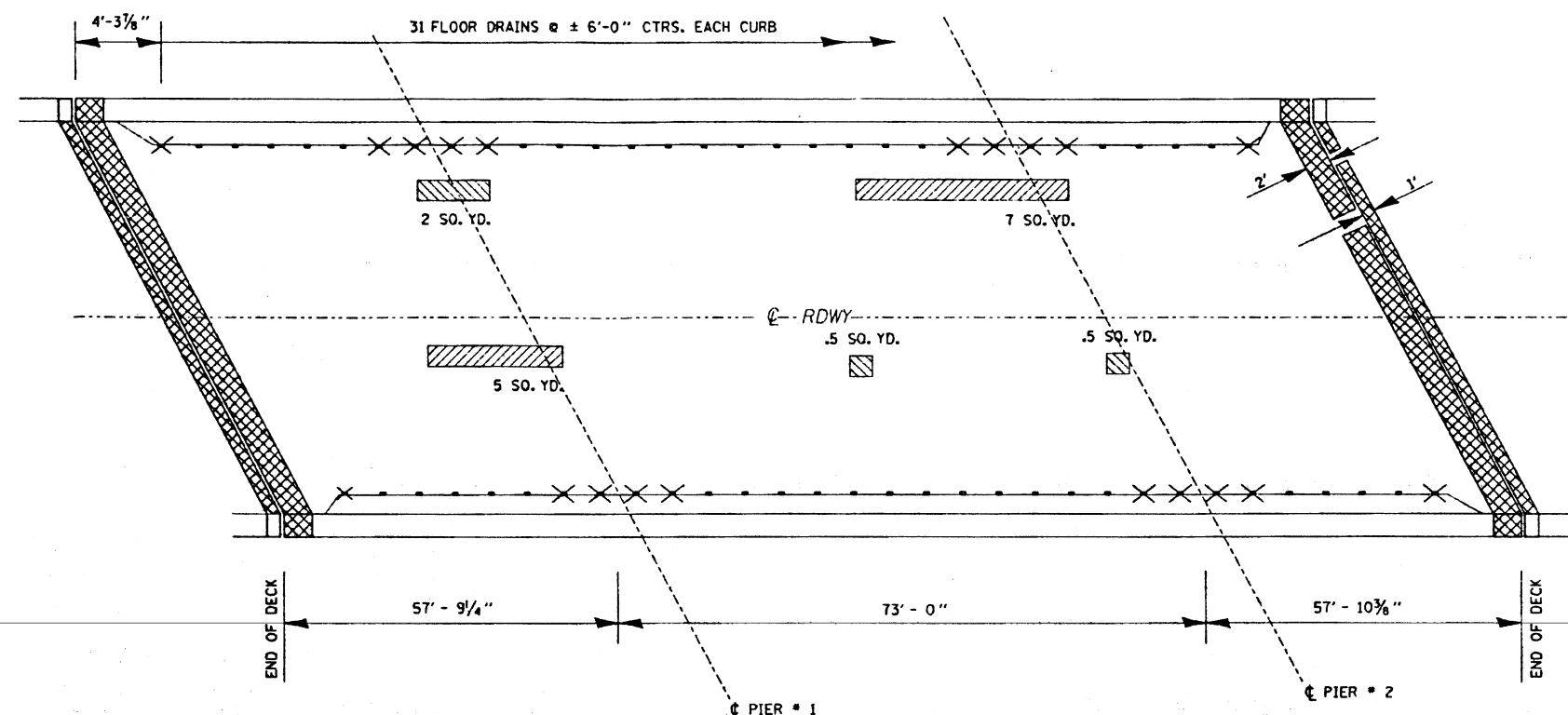
GENERAL NOTES AND TYPICAL SECTION
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322+95
S.N. 057-0163



NOTES:

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

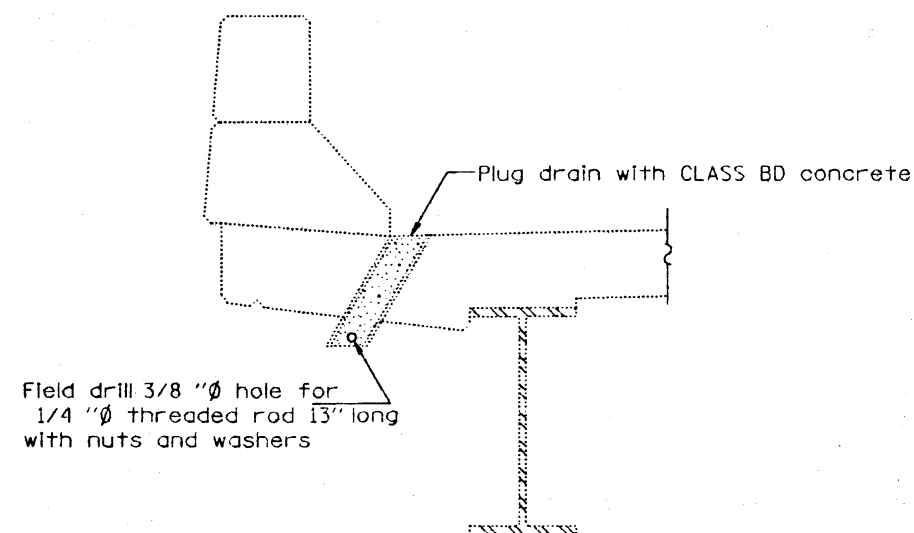
EXISTING DECK DRAINS LOCATED WITHIN 10 FT. OF A PIER OR AN ABUTMENT SHALL BE ELIMINATED.



DECK REPAIR PLAN

	UNIT	STAGE I	STAGE II	TOTAL
CONC. REMOVAL	CU. YD.	2.7	3.3	6
CONC. SUPERSTRUCTURE	CU. YD.	2.7	3.3	6
PLUG EXISTING DECK DRAINS	EACH	10	10	20
DECK SLAB REPAIR (PARTIAL DEPTH)	SO. YD.	5	7	12
DECK SLAB REPAIR (FULL DEPTH)	SO. YD.	1	2	3

DECK SURVEY DATE: FEBRUARY 9, 1999



SECTION AT DRAIN

DRAIN ELIMINATION DETAILS

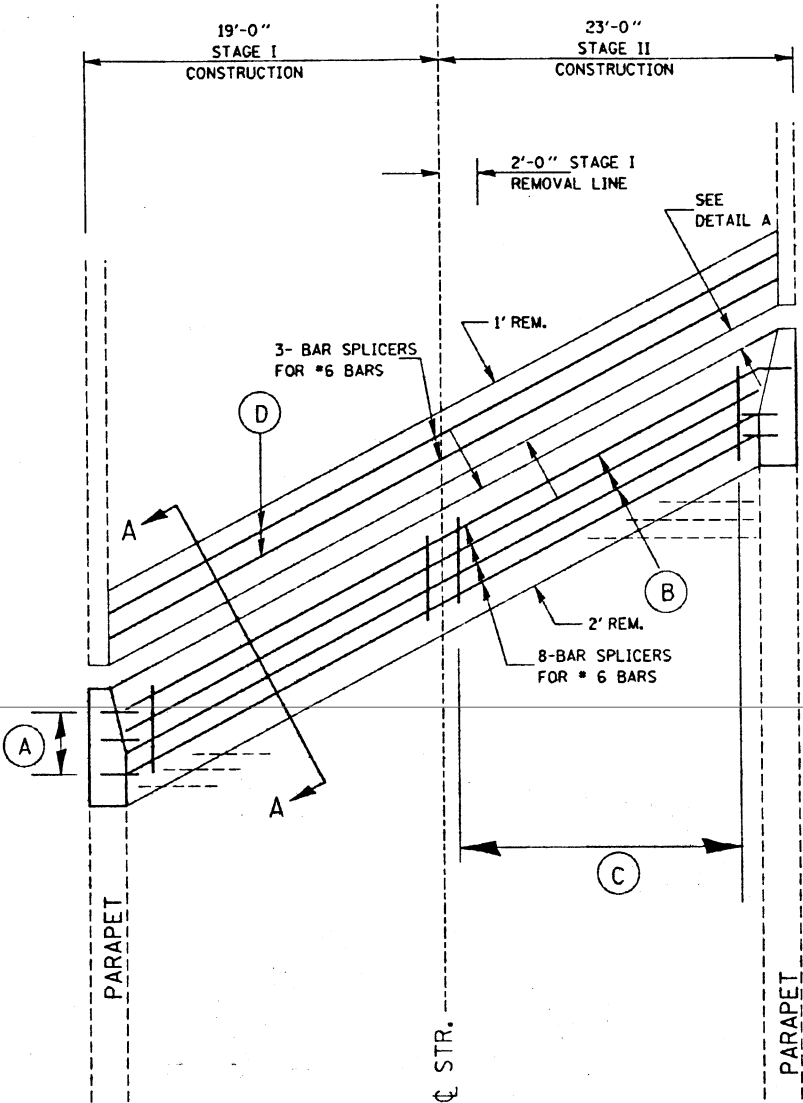
DECK REPAIR PLAN
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322+95
S.N. 057-0163

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	60
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 157-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 5 of 15

BILL OF MATERIAL SN 057-0163				
BAR	NO.	SIZE	LENGTH (FT.)	SHAPE
a(E)	22	#6	20'-3"	—
a1(E)	12	#6	4'-0"	—
a2(E)	22	#6	24'-11"	—
d(E)	12	#4	4'-9"	└
d1(E)	12	#5	3'-5"	└
d3(E)	8	#4	2'-1"	┐
d4(E)	80	#5	2'-5"	┐
CONCRETE REMOVAL			CU YD	6
CONC. SUPERSTRUCTURE			CU YD	6
BAR SPLICERS			EACH	22
FURN. & ERECT STRUCT. STEEL			POUND	3385
REINFORCEMENT BARS, EPOXY COATED			POUND	1859

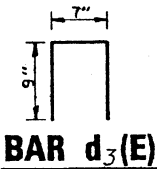
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED



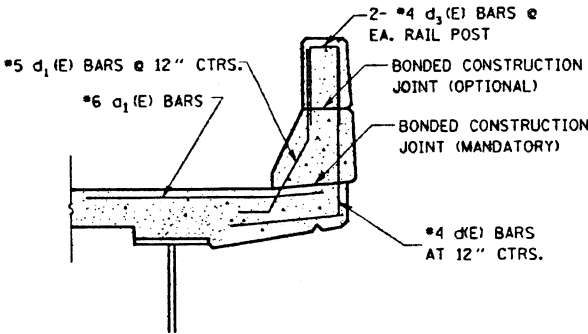
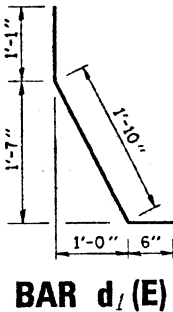
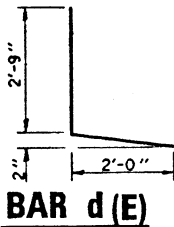
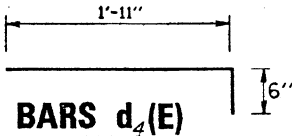
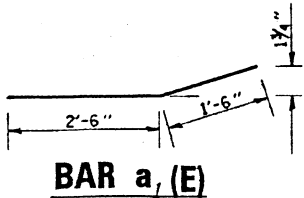
END OF DECK

BARS REQUIRED FOR EACH STAGE

- (A) 3- #4 d (E) Bars
3- #5 d₁ (E) Bars
2- #4 d₃ (E) Bars @ ea. rail post
3- #6 a₁ (E) Bars (Top)
(Lap with a (E) & a₂ (E))
 - (B) 4- #6 a (E) Bars (Top - Stage I), (a₂ (E) Bars Top - Stage II)
4- #6 a (E) Bars (Bottom - Stage I), (a₂ (E) Bars Bottom - Stage II)
 - (C) 18- #5 d₄ (E) Bars @ 12" ctrs. (Stage I)
22- #5 d₄ (E) Bars @ 12" ctrs. (Stage II)
 - (D) 1- #6 a (E) Bar (Top - Stage I), (a₂ (E) Bars Top - Stage II)
2- #6 a (E) Bars (Bottom - Stage I), (a₂ (E) Bars Bottom - Stage II)
- Min Bar Lap
#6 Bar 2'-7"



PLAN AT SOUTH ABUTMENT
(NORTH ABUTMENT MIRROR IMAGE)

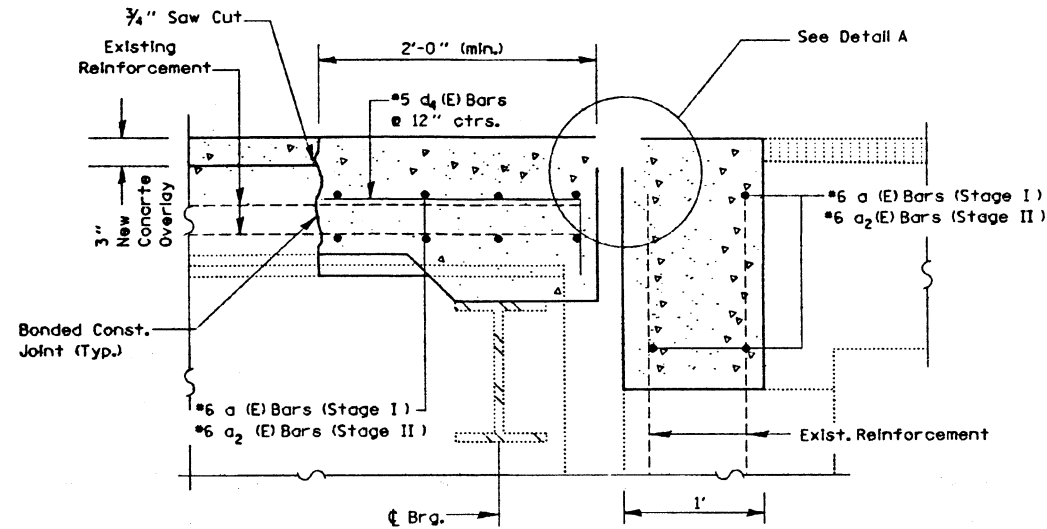


SECTION THRU PARAPET
(DECK SIDE)

EXPANSION JOINT REPLACEMENT DETAILS
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0163

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	67
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

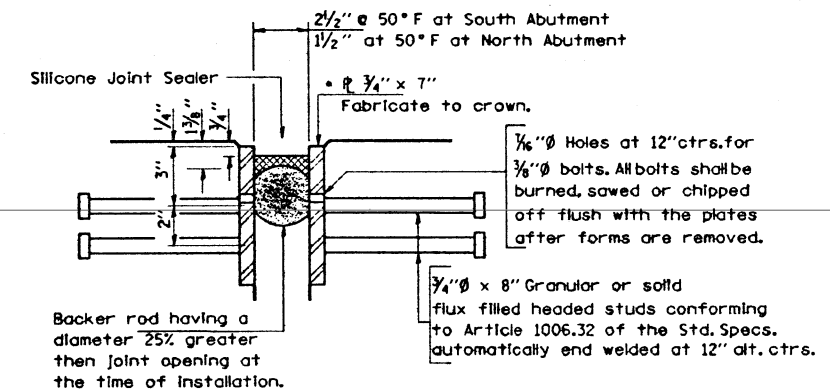
SHEET 6 of 15



SECTION A - A

NOTES:

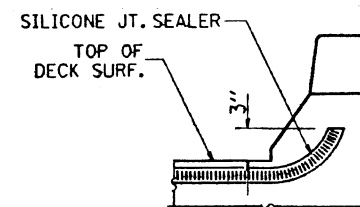
1. THE LIMITS OF ALL CONCRETE REMOVAL SHALL BE SAW CUT 3/4" INTO CONCRETE.
2. EXISTING TRANSVERSE BARS EXTENDING FROM DECK INTO REMOVED AREA SHALL BE CUT ALLOWING 2'-0" TO EXTEND INTO THE REMOVED AREA. IN ADDITION, THESE CUT BARS SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION
3. EXISTING LONGITUDINAL BARS IN DECK AND VERTICAL BARS IN ABUTMENT BACKWALL EXTENDING INTO THE REMOVED AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED IN THE NEW WORK.
4. EXISTING PARAPET REINFORCEMENT EXTENDING INTO THE REMOVED AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.
5. THE REMOVAL AND REPLACEMENT OF CONCRETE AT THE ABUTMENT BACKWALL, PARAPET, AND DECK WILL BE PAID FOR AS CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE.
6. THE PARAPET SHALL BE REMOVED ON THE DECK SIDE, BUT SHALL REMAIN IN PLACE ON THE ABUTMENT SIDE. CONCRETE REMOVAL AT THE ABUTMENT SHALL BE FROM FACE OF PARAPET TO FACE OF PARAPET.
7. THE REMOVAL OF EXISTING PJS AND STEEL ARMOUR SHALL BE INCLUDED IN THE COST OF "CONCRETE REMOVAL".



NOTE: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.

- Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/8". Seal space with Silicone Sealant suitable for Structural Steel.

SILICONE JOINT SEALER
DETAIL A



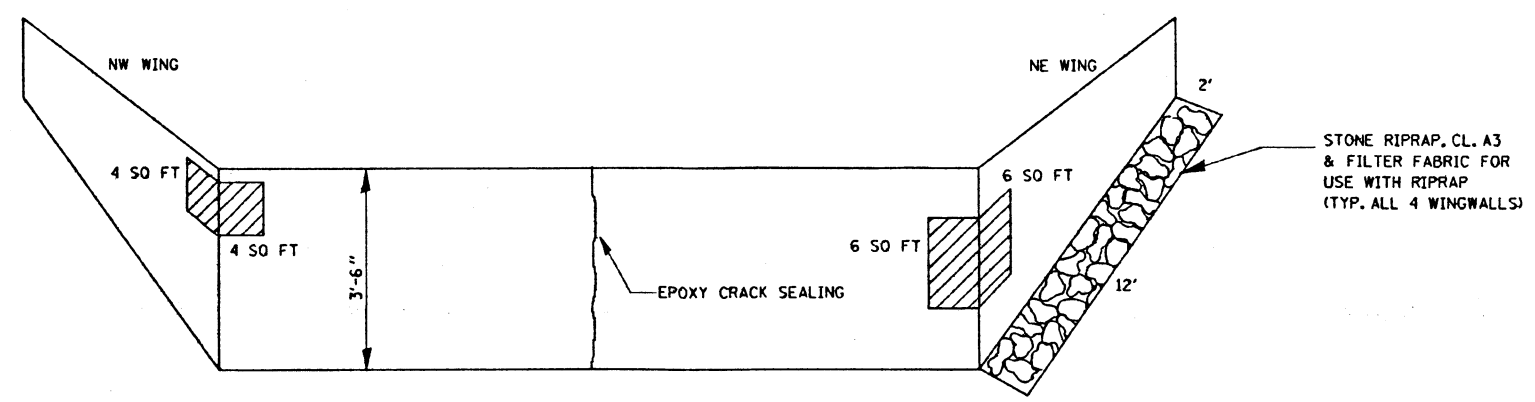
TYPICAL END OF SEAL TREATMENT

EXPANSION JOINT REPLACEMENT DETAILS
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0163

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	108
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 7 of 15

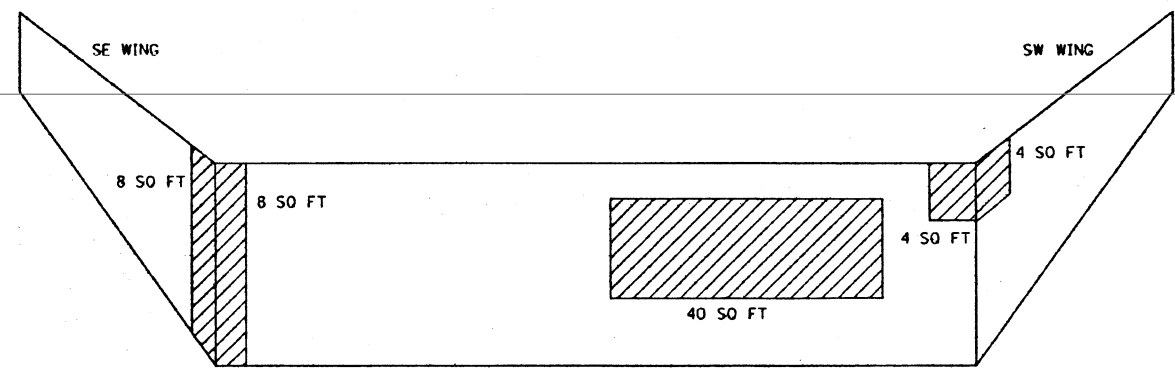
SHEET 7 of 15



NORTH ABUTMENT BACKWALL

EPOXY CRACK SEALING = 3' - 6"

FORMED CONCRETE
REPAIR $\leq 5"$
20 S.F.



SOUTH ABUTMENT BACKWALL

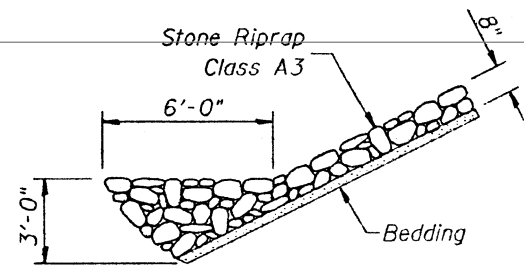
FORMED CONCRETE
REPAIR $\leq 5"$ =
64 S.F.

EPOXY CRACK SEALING = 4'

FORMED CONCRETE
REPAIR $\leq 5"$ =
84 S.F.

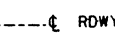
RIPRAP = 96 SO FT

ABUTMENT CRACKS AND SPALLS S.N. 057-0163

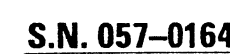


STONE RIPRAP ANCHOR DETAIL

ABUTMENT REPAIRS
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0163



NOTE:
SEE SHEET 9 OF 15 FOR GENERAL NOTES.



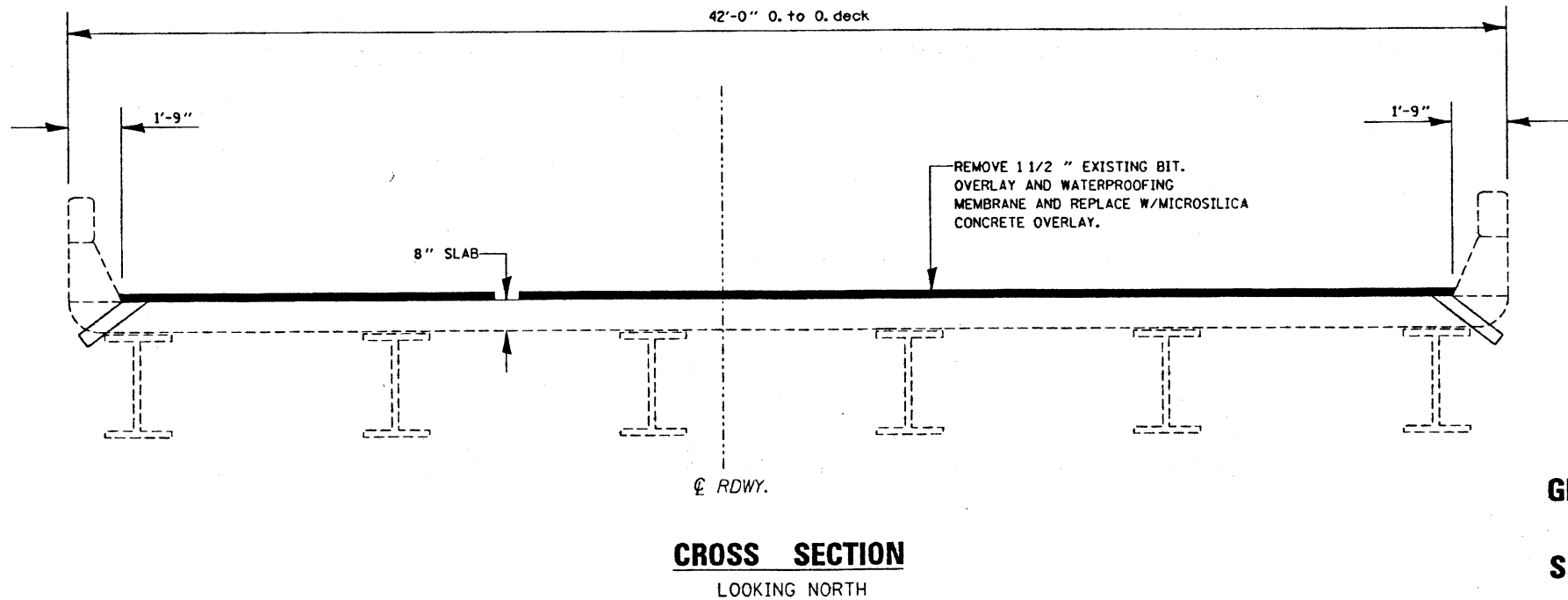
GENERAL PLAN
F.A.I. 55 N.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0164

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	70
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 157-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 9 of 15

General Notes:

1. All structural steel shall conform to AASHTO Classification M-270 Gr. 36 unless otherwise noted.
2. All Structural steel shall be shop painted with inorganic zinc rich primer per AASHTO M300, Type 1. The cost shall be included in the cost of Furnishing and Erecting Structural Steel.
3. The existing structural steel contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.
4. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
5. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in the cost of "Concrete Removal".
6. Existing longitudinal reinforcement extending into the removed area shall be cleaned, straightened and incorporated into the new construction. Existing transverse reinforcement may be cut as shown and removed.
7. Prior to pouring the new concrete for the deck, all loose rust, loose mill scale and all other loose, detrimental foreign material shall be removed from the portions of flanges of beams in contact with concrete. The removal shall be accomplished according to the requirements of the SSPC Surface Preparation Specifications SP-3 for power tool cleaning or SP-2 for hand tool cleaning. Cost shall be included in the cost of "Concrete Superstructure".
8. Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50 degrees Fahrenheit.
9. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



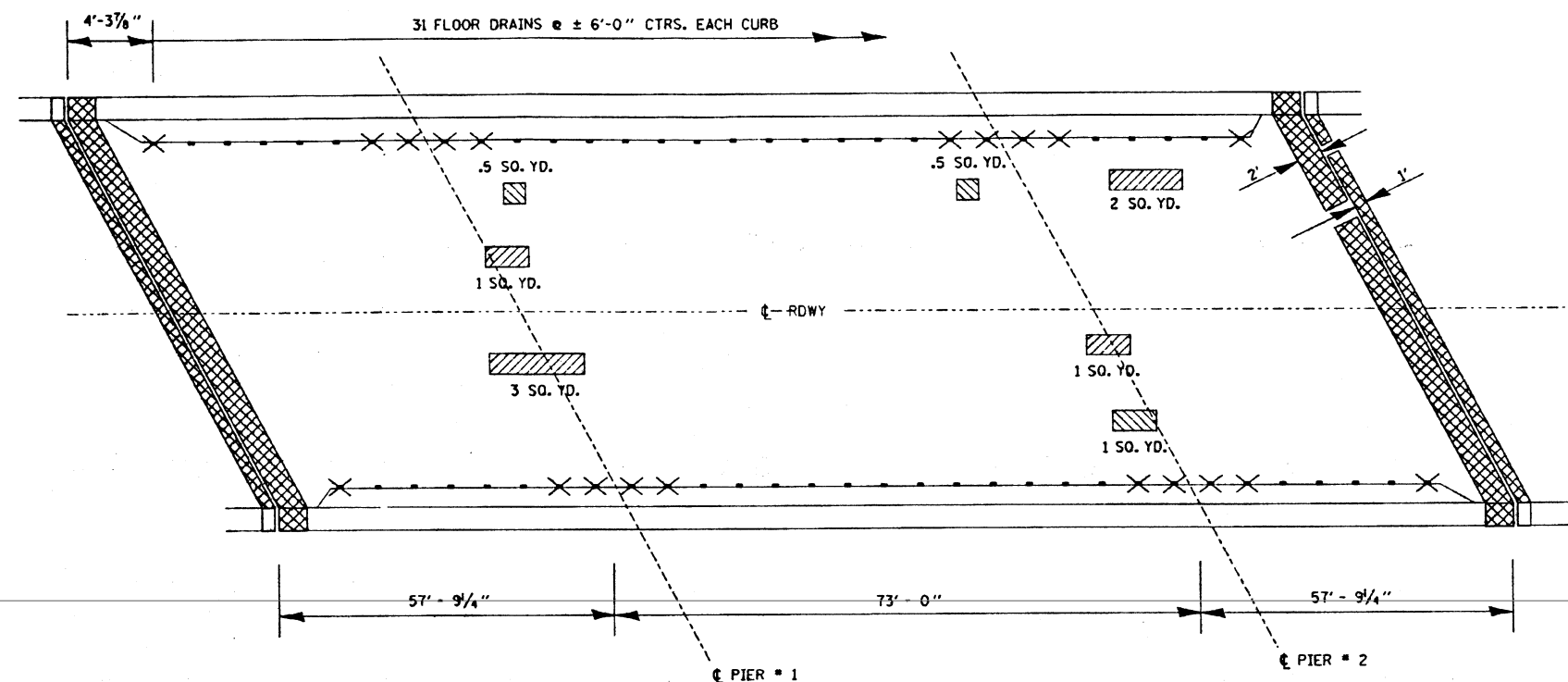
GENERAL NOTES AND TYPICAL SECTION
F.A.I. 55 N.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0164

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• (57-3-1, 57-3, 57-3-2, 57-2) RS				
SHEET 10 of 15				

NOTES:

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

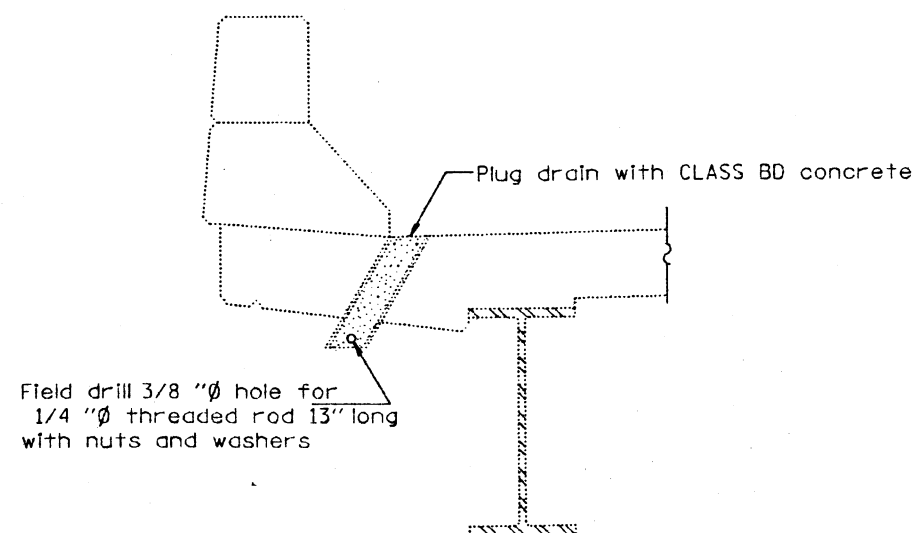
EXISTING DECK DRAINS LOCATED WITHIN 10 FT. OF A PIER OR AN ABUTMENT SHALL BE ELIMINATED.



DECK REPAIR PLAN

	UNIT	STAGE I	STAGE II	TOTAL
CONC. REMOVAL	CU. YD.	2.7	3.3	6
CONC. SUPERSTRUCTURE	CU. YD.	2.7	3.3	6
PLUG EXISTING DECK DRAINS	EACH	10	10	20
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	3	4	7
DECK SLAB REPAIR (FULL DEPTH)	SQ. YD.	1	1	2

DECK SURVEY DATE: FEBRUARY 9, 1999



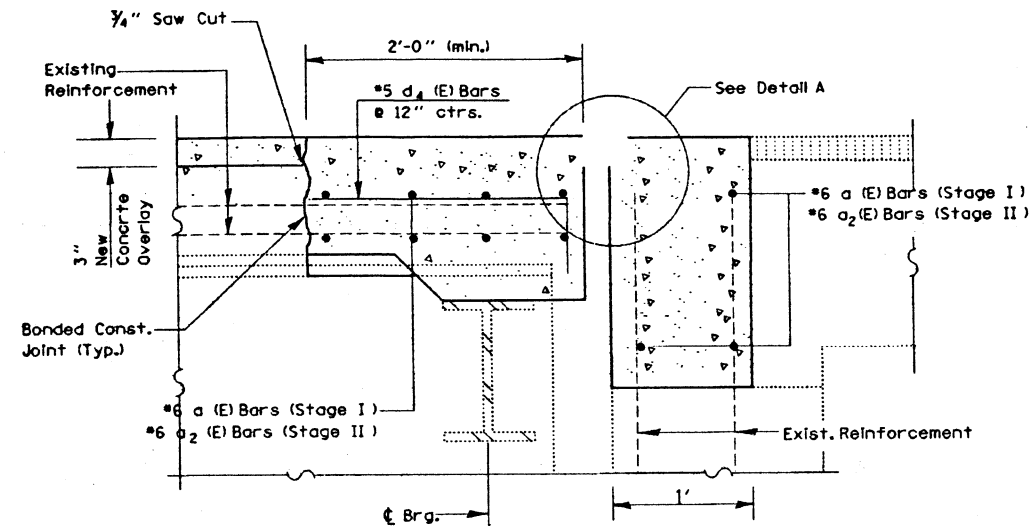
SECTION AT DRAIN

DRAIN ELIMINATION DETAILS

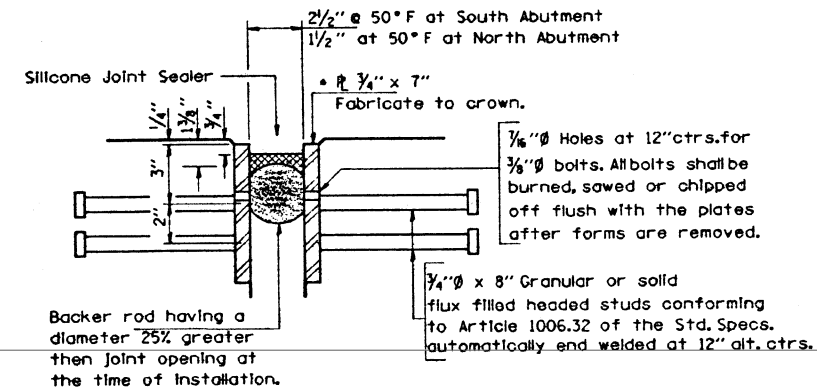
DECK REPAIR PLAN
F.A.I. 55 N.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0164

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	73
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 12 of 15



WITH CONCRETE OVERLAY



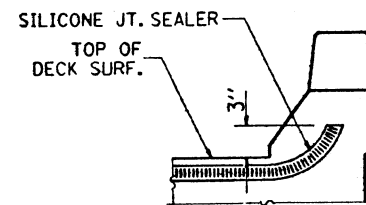
NOTE: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.

* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/8". Seal space with Silicone Sealant suitable for Structural Steel.

SILICONE JOINT SEALER DETAIL A

NOTES:

1. THE LIMITS OF ALL CONCRETE REMOVAL SHALL BE SAW CUT 3/4" INTO CONCRETE.
2. EXISTING TRANSVERSE BARS EXTENDING FROM DECK INTO REMOVED AREA SHALL BE CUT ALLOWING 2'-0" TO EXTEND INTO THE REMOVED AREA. IN ADDITION, THESE CUT BARS SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION
3. EXISTING LONGITUDINAL BARS IN DECK AND VERTICAL BARS IN ABUTMENT BACKWALL EXTENDING INTO THE REMOVED AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED IN THE NEW WORK.
4. EXISTING PARAPET REINFORCEMENT EXTENDING INTO THE REMOVED AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.
5. THE REMOVAL AND REPLACEMENT OF CONCRETE AT THE ABUTMENT BACKWALL, PARAPET, AND DECK WILL BE PAID FOR AS CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE.
6. THE PARAPET SHALL BE REMOVED ON THE DECK SIDE. BUT SHALL REMAIN IN PLACE ON THE ABUTMENT SIDE. CONCRETE REMOVAL AT THE ABUTMENT SHALL BE FROM FACE OF PARAPET TO FACE OF PARAPET.
7. THE REMOVAL OF EXISTING PJS AND STEEL ARMOUR SHALL BE INCLUDED IN THE COST OF "CONCRETE REMOVAL".



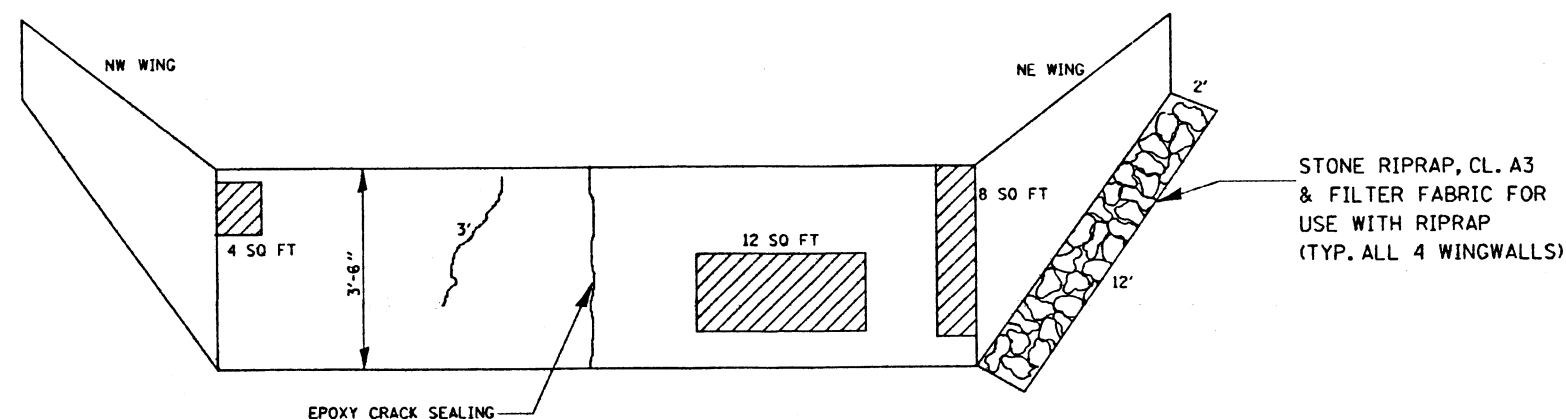
TYPICAL END OF SEAL TREATMENT

EXPANSION JOINT REPLACEMENT DETAILS
F.A.I. 55 N.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322+95
S.N. 057-0164

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	74
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 13 of 15

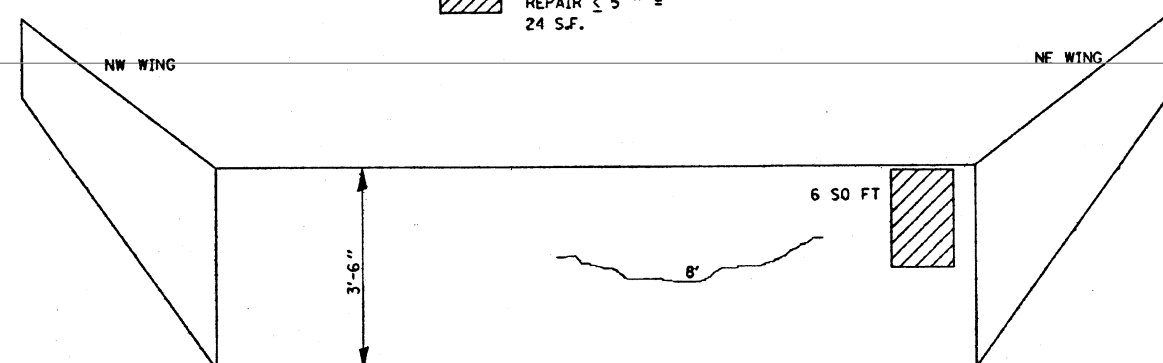
SHEET 13 of 15



NORTH ABUTMENT BACKWALL

EPOXY CRACK SEALING = 6'-6"

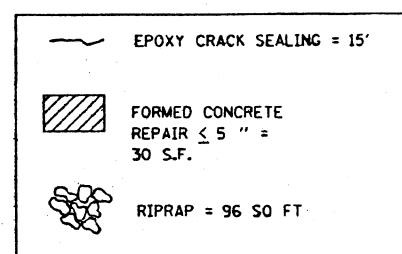
FORMED CONCRETE
REPAIR ≤ 5 " =
24 S.F.



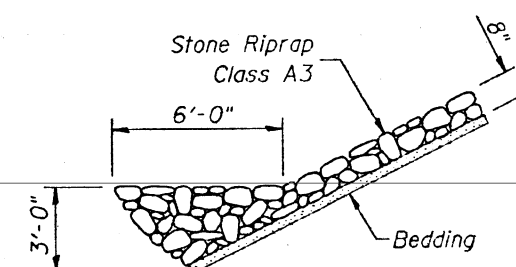
SOUTH ABUTMENT BACKWALL

EPOXY CRACK SEALING = 8'

FORMED CONCRETE
REPAIR ≤ 5 " =
6 S.F.



ABUTMENT CRACKS AND SPALLS S.N. 057-0164

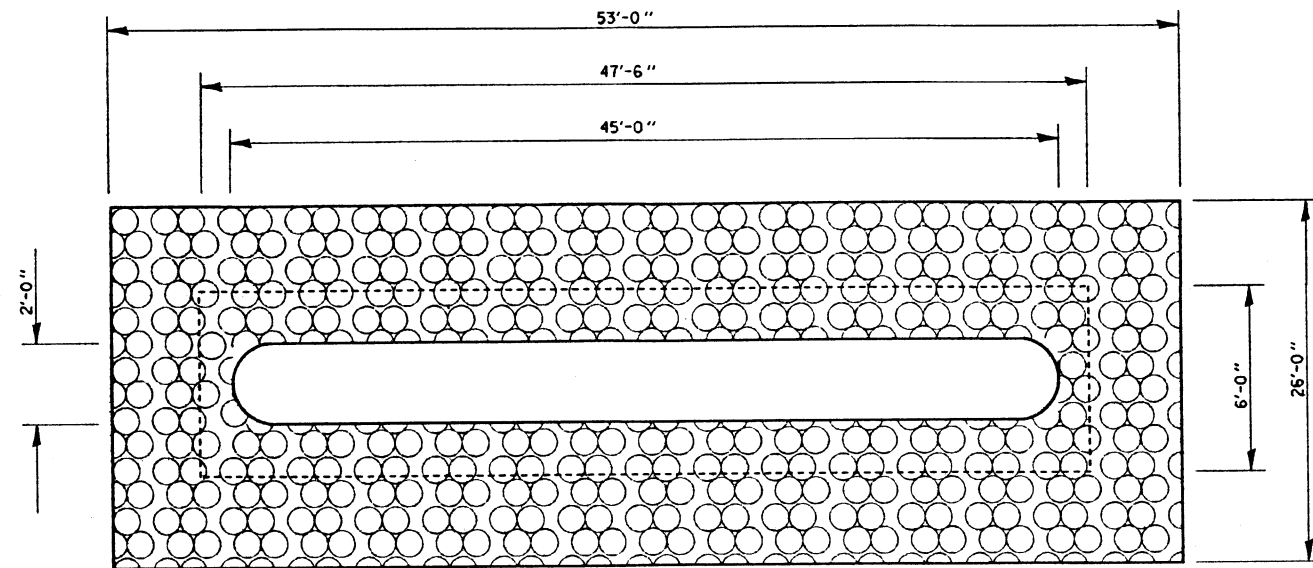


STONE RIPRAP ANCHOR DETAIL

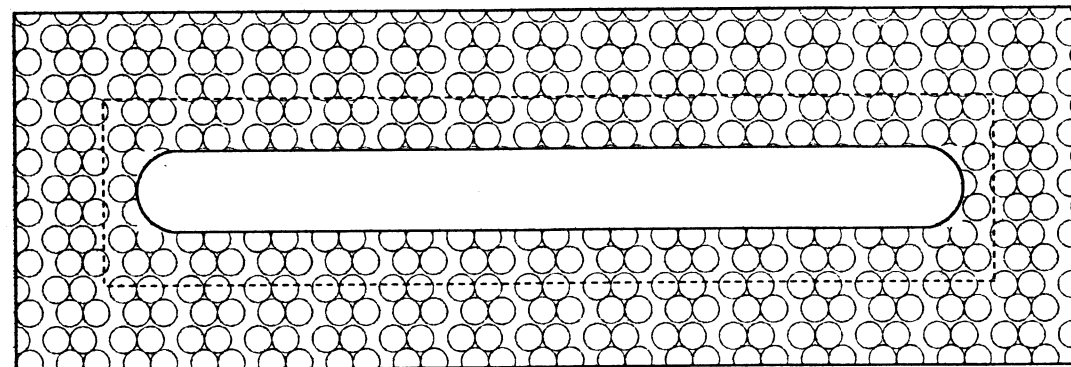
ABUTMENT REPAIRS
F.A.I. 55 N.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0164

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	MCLEAN	139	75
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (57-3-1, 57-3, 57-3-2, 57-2) RS				

SHEET 14 of 15

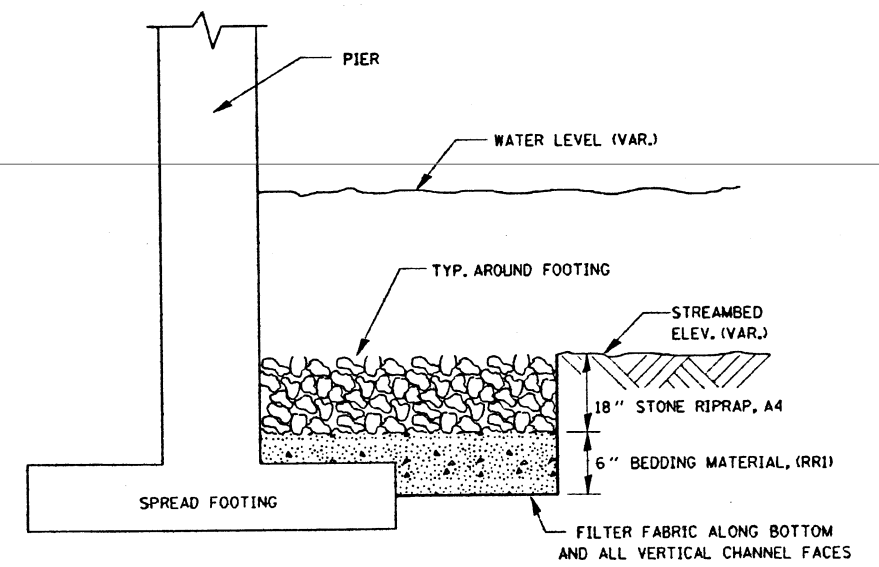


PIER #2



PIER #1

STR. # 057-0163 & STR. # 057-0164
PIERS 1 & 2



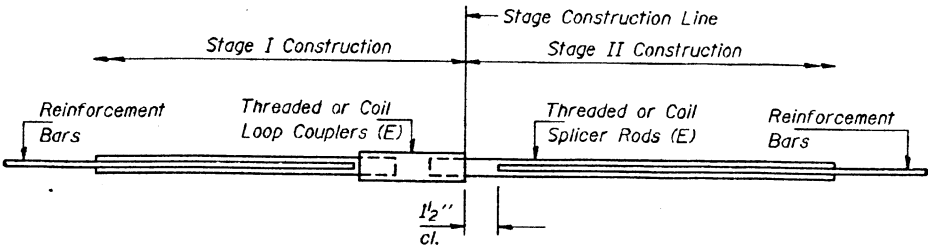
TYPICAL SECTION FOR PIER.
RIPRAP CLASS A4

NOTE: CHANNEL EXCAVATION SHALL NOT EXCEED BOTTOM OF FOOTING

RIPRAP AT PIERS
F.A.I. 55 S.B. OVER MONEY CREEK
SECTION (57-3-1, 57-3, 57-3-2, 57-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0163 & S.N. 057-0164

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
57-3-157-3.57-3-257-2RS	4	MCLEAN	139	76
SHEET NO. 15 15 SHEETS				



SPLICER DETAIL

Bar Size	No. Assemblies Required	Location
#6	22	Stage Construction Line S.N. 057-0163
#6	22	Stage Construction Line S.N. 057-0164
Total	44	

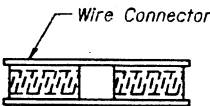
The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



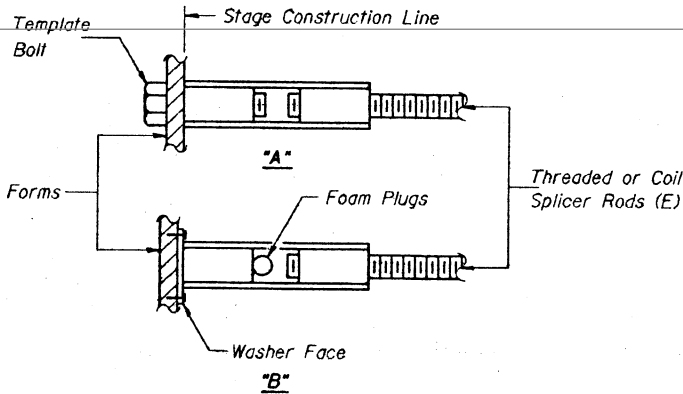
ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

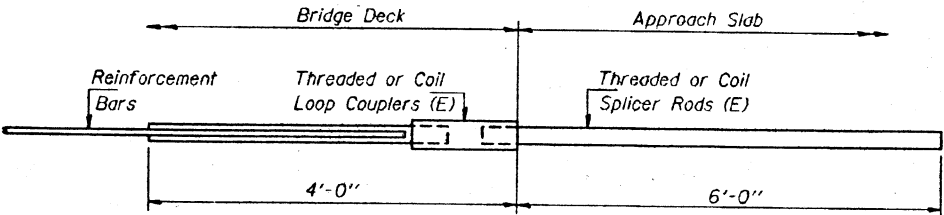
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
- Minimum Pull-out Strength = $1.25 \times f_{s_{allow}} \times A_t$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



INTEGRAL ABUTMENT
BAR SPLICER ASSEMBLY DETAIL
FOR #5 BAR

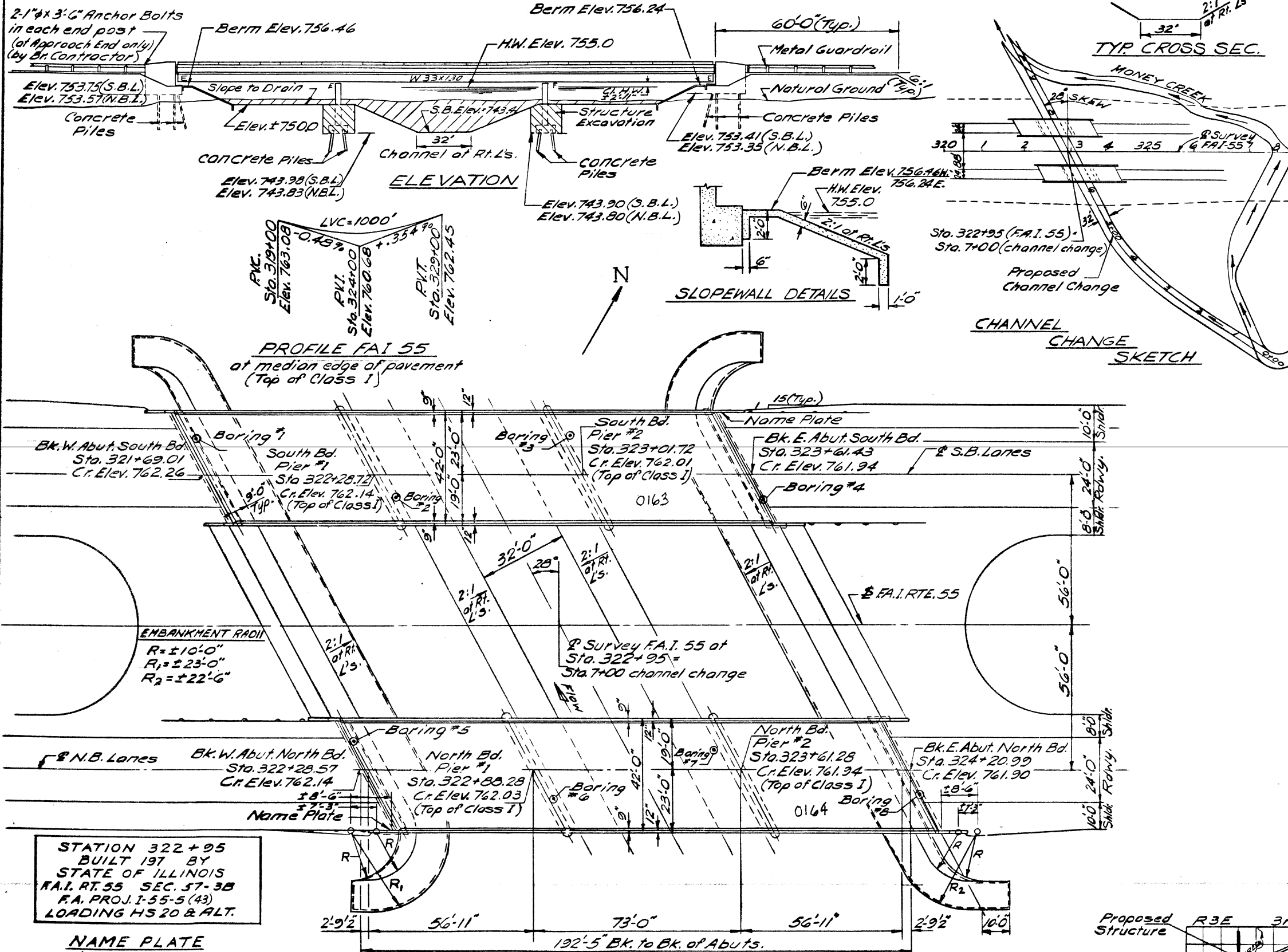
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =

DESIGNED
CHECKED
DRAWN
CHECKED

BSD-1 4-30-99

EXAMINED	20
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

BAR SPLICER ASSEMBLY DETAILS
F.A.I. 55 OVER MONEY CREEK
SECTION (57-3-157-3.57-3-257-2) RS
MCLEAN COUNTY
STA. 322 + 95
S.N. 057-0163 & S.N. 057-0164



GENERAL NOTES

- All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " open holes $\frac{1}{2}$ " unless otherwise noted.
 Calculated weight of structural steel = 366,640 lbs.
 Protective coat shall not be applied to surfaces to which coal tar interlayer protective coat is applied.
 The basic lead silico chromate paint system shall be used for shop and field painting of structural steel.
 Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 Anchor bolts shall be set before bolting diaphragms over supports.
 Slope Wall shall be reinforced with welded wire fabric, 6" x 6" mesh, weighing 58 lbs. per 100 sq. ft.
 The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
 The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of class X concrete, except the aggregates shall conform to the requirements of handrail concrete.
 The Contractor shall drive four concrete test piles in permanent locations, one at the East abutment of the South bound lanes, one at the West abutment of the North bound lanes, one at pier #1 of the South bound lanes and one at pier #2 of the North bound lanes as directed by the Engineer before ordering the remainder of piles.
 Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
Bituminous Concrete Surface Course, Class I	Tons	131		131
Protective Coat	Sq. Yds.	319		319
Structure Excavation	Cu. Yds.		467	467
Class X Concrete	Cu. Yds.	487.5	193.6	681.1
Structural Steel	L.S.	1		1
Aluminum Railing	Lin. Ft.	755		755
Reinforcement Bars	Lbs.	115,270	28,460	143,730
Name Plates	Each		2	2
Slope Wall (6")	Sq. Yds.			1265
Class A Concrete	Cu. Yds.		240.0	240.0
Coal Tar Interlayer Protective Coat	Sq. Yds.	1628		1628
Concrete Piles	Lin. Ft.		2373	2373
Test Piles (Concrete)	Eq.		4	4
Preformed Joint Sealer	Lin. Ft.	192		192
Stud Shear Connectors	Eq.	5652		5652

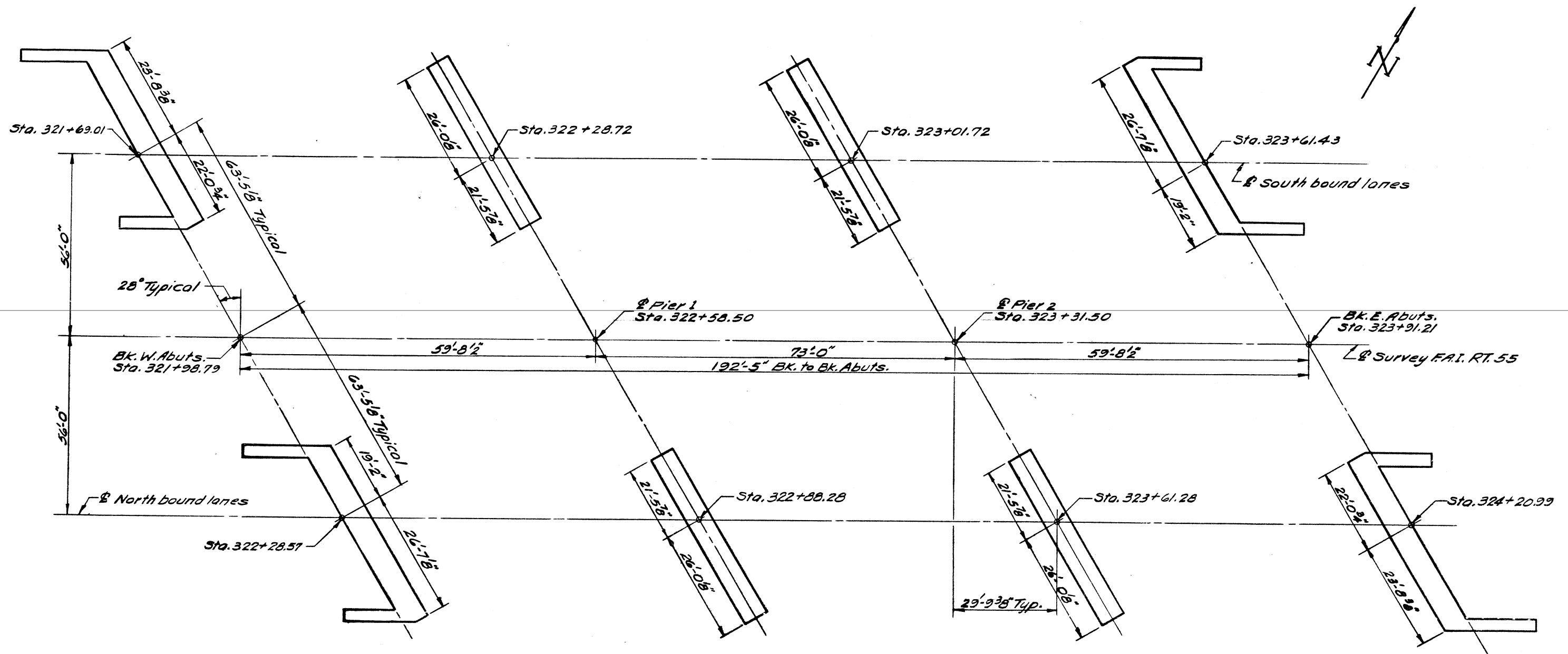
GENERAL PLAN & ELEVATION
 PROJ. I-55-5(43) 167
 FAI 55 over MONEY CREEK
 FAI RTE. 55 SEC. 57-38
 MCLEAN COUNTY
 STATION 322+95

3-86

#15 5-1-73

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. S. L. P. A. L. 55	57-38	McLean	144	41
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT.	

SHEET NO. 2
19 SHEETS



FOOTING LAYOUT

DESIGNED Robert S. W
CHECKED Gene McCormick
DRAWN Leon Heeren
CHECKED GM

19

EXAMINED

ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES

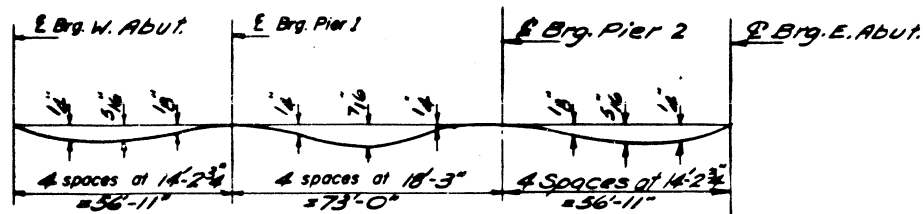
PASSED *W E Baumann*

ENGINEER OF DESIGN

APPROVED *Richard H Koetserman*

FIELD ENGINEER

FOOTING LAYOUT
FAI RT.55 SEC.57.3B
MCLEAN COUNTY
STATION 322+95



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
 Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brg. W. Abut.		32180.374	16.125	761.849	761.84
a		32190.374	16.125	761.825	761.840
b		32200.374	16.125	761.801	761.824
c		32210.374	16.125	761.779	761.801
d		32220.374	16.125	761.757	761.770
e		32230.374	16.125	761.736	761.741
B Pier 1		32237.291	16.125	761.722	761.722
f		32247.291	16.125	761.703	761.713
g		32257.291	16.125	761.684	761.705
h		32267.291	16.125	761.666	761.697
i		32277.291	16.125	761.649	761.683
j		32287.291	16.125	761.633	761.657
k		32297.291	16.125	761.618	761.632
l		32307.291	16.125	761.603	761.607
B Pier 2		32310.291	16.125	761.599	761.599
m		32320.291	16.125	761.586	761.593
n		32330.291	16.125	761.573	761.589
o		32340.291	16.125	761.562	761.586
p		32350.291	16.125	761.551	761.573
q		32360.291	16.125	761.541	761.551
Brg. E. Abut.		32367.207	16.125	761.534	761.534

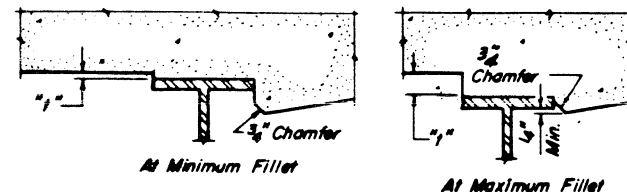
LONGITUDINAL BONDED CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brg. W. Abut.	32178.181	12.000	761.940	761.940
a	32188.181	12.000	761.916	761.931
b	32198.181	12.000	761.892	761.915
c	32208.181	12.000	761.869	761.892
d	32218.181	12.000	761.847	761.860
e	32228.181	12.000	761.826	761.831
B Pier 1	32235.097	12.000	761.812	761.812
f	32245.097	12.000	761.793	761.803
g	32255.097	12.000	761.774	761.795
h	32265.097	12.000	761.756	761.786
i	32275.097	12.000	761.739	761.772
j	32285.097	12.000	761.722	761.746
k	32295.097	12.000	761.707	761.721
l	32305.097	12.000	761.692	761.695
B Pier 2	32308.097	12.000	761.688	761.688
m	32318.097	12.000	761.675	761.682
n	32328.097	12.000	761.662	761.678
o	32338.097	12.000	761.650	761.674
p	32348.097	12.000	761.639	761.661
q	32358.097	12.000	761.629	761.639
Brg. E. Abut.	32365.014	12.000	761.622	761.622

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brg. W. Abut.		32176.519	8.875	761.993	761.993
a		32186.519	8.875	761.968	761.984
b		32196.519	8.875	761.945	761.967
c		32206.519	8.875	761.922	761.944
d		32216.519	8.875	761.900	761.912
e		32226.519	8.875	761.879	761.883
B Pier 1		32233.436	8.875	761.864	761.864
f		32243.436	8.875	761.845	761.855
g		32253.436	8.875	761.826	761.847
h		32263.436	8.875	761.808	761.839
i		32273.436	8.875	761.790	761.824
j		32283.436	8.875	761.774	761.798
k		32293.436	8.875	761.758	761.772
l		32303.436	8.875	761.744	761.747
B Pier 2		32306.436	8.875	761.739	761.739
m		32316.436	8.875	761.726	761.733
n		32326.436	8.875	761.713	761.728
o		32336.436	8.875	761.701	761.725
p		32346.436	8.875	761.690	761.712
q		32356.436	8.875	761.679	761.690
Brg. E. Abut.		32363.352	8.875	761.673	761.673

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brg. W. Abut.		32172.664	1.625	762.116	762.116
a		32182.664	1.625	762.091	762.106
b		32192.664	1.625	762.067	762.090
c		32202.664	1.625	762.044	762.066
d		32212.664	1.625	762.021	762.034
e		32222.664	1.625	762.000	762.005
B Pier 1		32229.581	1.625	761.986	761.986
f		32239.581	1.625	761.965	761.976
g		32249.581	1.625	761.946	761.967
h		32259.581	1.625	761.928	761.958
i		32269.581	1.625	761.910	761.944
j		32279.581	1.625	761.893	761.917
k		32289.581	1.625	761.878	761.891
l		32299.581	1.625	761.862	761.866
B Pier 2		32302.581	1.625	761.858	761.858
m		32312.581	1.625	761.844	761.851
n		32322.581	1.625	761.831	761.847
o		32332.581	1.625	761.819	761.842
p		32342.581	1.625	761.807	761.829
q		32352.581	1.625	761.796	761.807
Brg. E. Abut.		32359.437	1.625	761.789	761.789

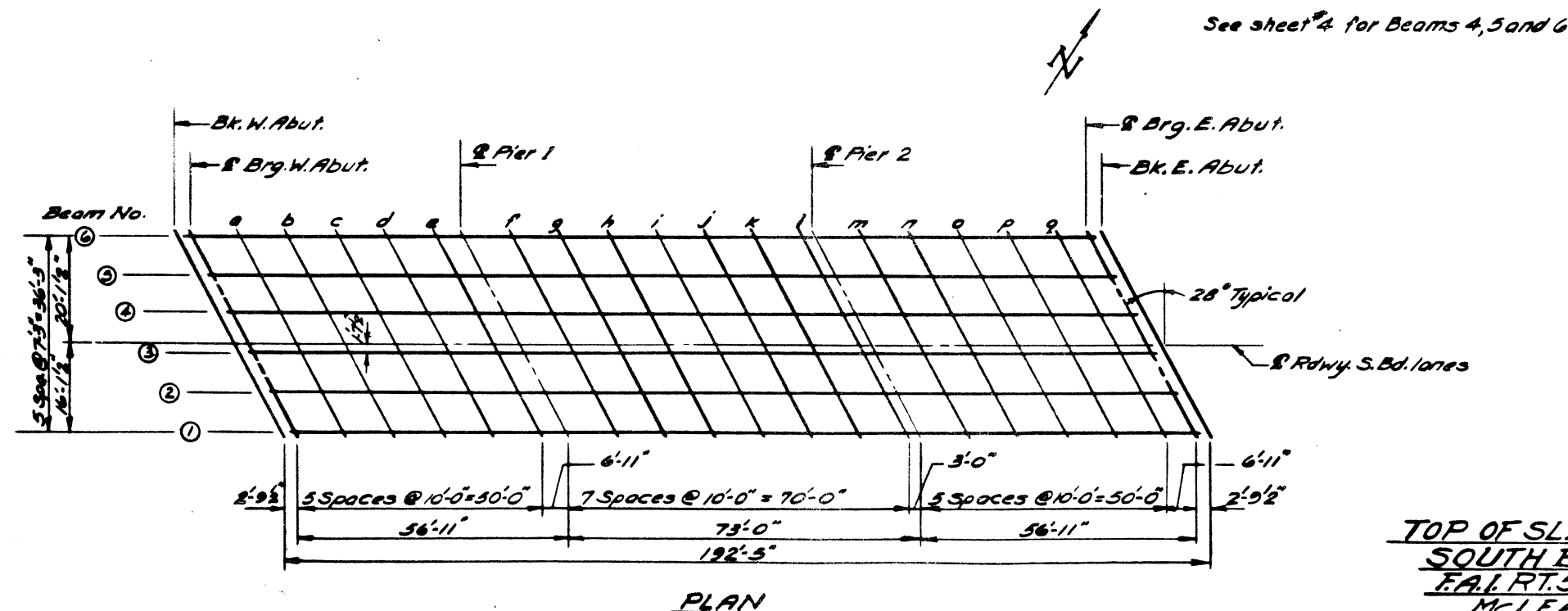
STATE OF ILLINOIS



To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7.1.75	57-38	McLean	144	42
SHEET NO. 3				
19 SHEETS				



DESIGNED	Prakash S. W.
CHECKED	P.G. Barnett
DRAWN	P.G. Barnett
CHECKED	PSL
E-S	8-1-65

EXAMINED	SEPT. 24 1971
PASSED	W. Baumann
APPROVED	Richard A. Holterman

TOP OF SLAB ELEVATIONS
 SOUTH BOUND LANES
 F.A. RT. 55, SEC. 57-38
 MCLEAN COUNTY
 STA. 322+25

RDWAY.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brig. W. Abut.	32171.400	0.0	762.143	762.143
a	32181.800	0.0	762.119	762.134
b	32191.800	0.0	762.094	762.117
c	32201.800	0.0	762.071	762.094
d	32211.800	0.0	762.049	762.061
e	32221.800	0.0	762.027	762.032
Pier 1	32228.717	0.0	762.013	762.013
f	32238.717	0.0	761.993	762.003
g	32248.717	0.0	761.973	761.994
h	32258.717	0.0	761.955	761.985
i	32268.717	0.0	761.937	761.970
j	32278.717	0.0	761.920	761.944
k	32288.717	0.0	761.904	761.918
l	32298.717	0.0	761.889	761.892
Pier 2	32301.717	0.0	761.885	761.885
m	32311.717	0.0	761.871	761.878
n	32321.717	0.0	761.857	761.873
o	32331.717	0.0	761.845	761.869
p	32341.717	0.0	761.833	761.856
q	32351.717	0.0	761.823	761.833
Brig. E. Abut.	32358.633	0.0	761.816	761.816

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brig. W. Abut.	32168.809	-5.625	762.063	762.063
a	32178.809	-5.625	762.038	762.053
b	32188.809	-5.625	762.014	762.036
c	32198.809	-5.625	761.990	762.013
d	32208.809	-5.625	761.967	761.980
e	32218.809	-5.625	761.946	761.951
Pier 1	32225.726	-5.625	761.931	761.931
f	32235.726	-5.625	761.911	761.921
g	32245.726	-5.625	761.891	761.912
h	32255.726	-5.625	761.872	761.903
i	32265.726	-5.625	761.854	761.888
j	32275.726	-5.625	761.837	761.861
k	32285.726	-5.625	761.821	761.835
l	32295.726	-5.625	761.806	761.809
Pier 2	32298.726	-5.625	761.801	761.801
m	32308.726	-5.625	761.787	761.794
n	32318.726	-5.625	761.773	761.789
o	32328.726	-5.625	761.761	761.785
p	32338.726	-5.625	761.749	761.771
q	32348.726	-5.625	761.738	761.748
Brig. E. Abut.	32355.643	-5.625	761.731	761.731

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brig. W. Abut.	32164.954	-12.875	761.955	761.955
a	32174.954	-12.875	761.930	761.945
b	32184.954	-12.875	761.905	761.920
c	32194.954	-12.875	761.881	761.904
d	32204.954	-12.875	761.858	761.871
e	32214.954	-12.875	761.836	761.841
Pier 1	32221.871	-12.875	761.821	761.821
f	32231.871	-12.875	761.801	761.811
g	32241.871	-12.875	761.781	761.802
h	32251.871	-12.875	761.762	761.792
i	32261.871	-12.875	761.743	761.777
j	32271.871	-12.875	761.726	761.750
k	32281.871	-12.875	761.709	761.723
l	32291.871	-12.875	761.694	761.697
Pier 2	32294.871	-12.875	761.689	761.689
m	32304.871	-12.875	761.674	761.681
n	32314.871	-12.875	761.661	761.676
o	32324.871	-12.875	761.648	761.672
p	32334.871	-12.875	761.636	761.658
q	32344.871	-12.875	761.624	761.635
Brig. E. Abut.	32351.789	-12.875	761.617	761.617

LONGITUDINAL BONDED CONSTRUCTION JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brig. W. Abut.	32163.293	-16.000	761.895	761.895
a	32173.293	-16.000	761.869	761.884
b	32183.293	-16.000	761.844	761.867
c	32193.293	-16.000	761.820	761.843
d	32203.293	-16.000	761.797	761.810
e	32213.293	-16.000	761.775	761.780
Pier 1	32220.209	-16.000	761.760	761.760
f	32230.209	-16.000	761.739	761.749
g	32240.209	-16.000	761.719	761.740
h	32250.209	-16.000	761.700	761.730
i	32260.209	-16.000	761.681	761.715
j	32270.209	-16.000	761.664	761.698
k	32280.209	-16.000	761.647	761.661
l	32290.209	-16.000	761.631	761.634
Pier 2	32293.209	-16.000	761.627	761.627
m	32303.209	-16.000	761.612	761.619
n	32313.209	-16.000	761.598	761.614
o	32323.209	-16.000	761.585	761.600
p	32333.209	-16.000	761.572	761.595
q	32343.209	-16.000	761.561	761.572
Brig. E. Abut.	32350.126	-16.000	761.554	761.554

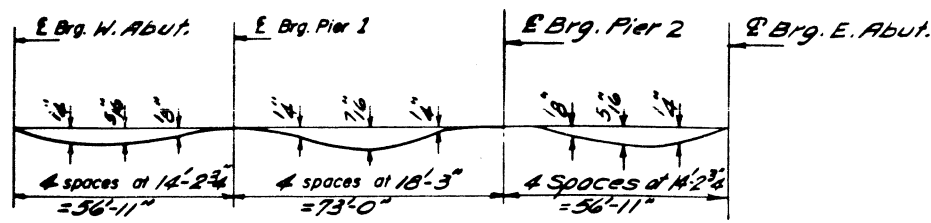
BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Brig. W. Abut.	32161.099	-20.125	761.815	761.815
a	32171.099	-20.125	761.789	761.804
b	32181.099	-20.125	761.764	761.786
c	32191.099	-20.125	761.740	761.762
d	32201.099	-20.125	761.716	761.729
e	32211.099	-20.125	761.694	761.699
Pier 1	32218.016	-20.125	761.679	761.679
f	32228.016	-20.125	761.658	761.668
g	32238.016	-20.125	761.637	761.658
h	32248.016	-20.125	761.618	761.649
i	32258.016	-20.125	761.600	761.633
j	32268.016	-20.125	761.582	761.606
k	32278.016	-20.125	761.565	761.579
l	32288.016	-20.125	761.549	761.552
Pier 2	32291.016	-20.125	761.544	761.544
m	32301.016	-20.125	761.529	761.536
n	32311.016	-20.125	761.515	761.531
o	32321.016	-20.125	761.502	761.526
p	32331.016	-20.125	761.489	761.511
q	32341.016	-20.125	761.478	761.488
Brig. E. Abut.	32347.933	-20.125	761.470	761.470

DESIGNED *Prakash S. (S)*
 CHECKED *9/1/01*
 DRAWN *L.H.*
 CHECKED *P.S.L.*

SEPT. 24 101
 EXAMINED *[Signature]*
 PASSED *[Signature]*
 APPROVED *[Signature]*

TOP OF SLAB ELEVATIONS
 SOUTH BOUND LANES
 I-55 SEC. 57-35
 MCLEAN COUNTY
 STA. 322+95



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
 Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

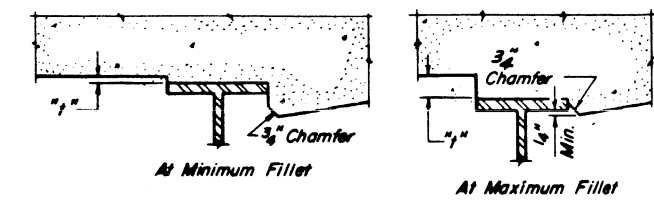
Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E Brg. W. Abut.		32222.780	-16.125	761.752	761.752
a		32232.780	-16.125	761.731	761.746
b		32242.780	-16.125	761.711	761.734
c		32252.780	-16.125	761.692	761.715
d		32262.780	-16.125	761.674	761.687
e		32272.780	-16.125	761.657	761.662
E Pier 1		32279.703	-16.125	761.645	761.645
f		32289.703	-16.125	761.629	761.640
g		32299.703	-16.125	761.614	761.635
h		32309.703	-16.125	761.600	761.631
i		32319.703	-16.125	761.587	761.620
j		32329.703	-16.125	761.574	761.598
k		32339.703	-16.125	761.562	761.576
l		32349.703	-16.125	761.551	761.555
E Pier 2		32352.703	-16.125	761.548	761.548
m		32362.703	-16.125	761.538	761.546
n		32372.703	-16.125	761.530	761.545
o		32382.703	-16.125	761.521	761.545
p		32392.703	-16.125	761.514	761.536
q		32402.703	-16.125	761.508	761.518
E Brg. E. Abut.		32409.620	-16.125	761.504	761.504

LONGITUDINAL BONDED CONSTRUCTION JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E Brg. W. Abut.	32224.979	-12.000	761.833	761.833
a	32234.979	-12.000	761.813	761.828
b	32244.979	-12.000	761.793	761.816
c	32254.979	-12.000	761.774	761.797
d	32264.979	-12.000	761.756	761.769
e	32274.979	-12.000	761.739	761.744
E Pier 1	32281.896	-12.000	761.728	761.728
f	32291.896	-12.000	761.712	761.722
g	32301.896	-12.000	761.697	761.718
h	32311.896	-12.000	761.683	761.713
i	32321.896	-12.000	761.670	761.703
j	32331.896	-12.000	761.657	761.691
k	32341.896	-12.000	761.646	761.659
l	32351.896	-12.000	761.635	761.638
E Pier 2	32354.896	-12.000	761.632	761.632
m	32364.896	-12.000	761.622	761.629
n	32374.896	-12.000	761.613	761.629
o	32384.896	-12.000	761.605	761.629
p	32394.896	-12.000	761.598	761.620
q	32404.896	-12.000	761.592	761.603
E Brg. E. Abut.	32411.813	-12.000	761.588	761.588

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E Brg. W. Abut.		32226.641	-8.875	761.878	761.878
a		32236.641	-8.875	761.858	761.873
b		32246.641	-8.875	761.839	761.861
c		32256.641	-8.875	761.820	761.852
d		32266.641	-8.875	761.802	761.815
e		32276.641	-8.875	761.785	761.790
E Pier 1		32283.558	-8.875	761.774	761.774
f		32293.558	-8.875	761.758	761.769
g		32303.558	-8.875	761.743	761.764
h		32313.558	-8.875	761.729	761.760
i		32323.558	-8.875	761.716	761.750
j		32333.558	-8.875	761.704	761.728
k		32343.558	-8.875	761.693	761.706
l		32353.558	-8.875	761.682	761.682
E Pier 2		32356.558	-8.875	761.679	761.679
m		32366.558	-8.875	761.670	761.677
n		32376.558	-8.875	761.661	761.677
o		32386.558	-8.875	761.653	761.677
p		32396.558	-8.875	761.646	761.668
q		32406.558	-8.875	761.640	761.650
E Brg. E. Abut.		32413.474	-8.875	761.636	761.636

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E Brg. W. Abut.		32230.456	-1.625	761.984	761.984
a		32240.456	-1.625	761.964	761.979
b		32250.456	-1.625	761.945	761.967
c		32260.456	-1.625	761.926	761.949
d		32270.456	-1.625	761.909	761.921
e		32280.456	-1.625	761.892	761.897
E Pier 1		32287.413	-1.625	761.881	761.881
f		32297.413	-1.625	761.866	761.876
g		32307.413	-1.625	761.851	761.872
h		32317.413	-1.625	761.838	761.868
i		32327.413	-1.625	761.825	761.858
j		32337.413	-1.625	761.813	761.837
k		32347.413	-1.625	761.802	761.815
l		32357.413	-1.625	761.792	761.795
E Pier 2		32360.413	-1.625	761.789	761.789
m		32370.413	-1.625	761.779	761.786
n		32380.413	-1.625	761.771	761.787
o		32390.413	-1.625	761.764	761.787
p		32400.413	-1.625	761.757	761.779
q		32410.413	-1.625	761.751	761.762
E Brg. E. Abut.		32417.329	-1.625	761.747	761.747

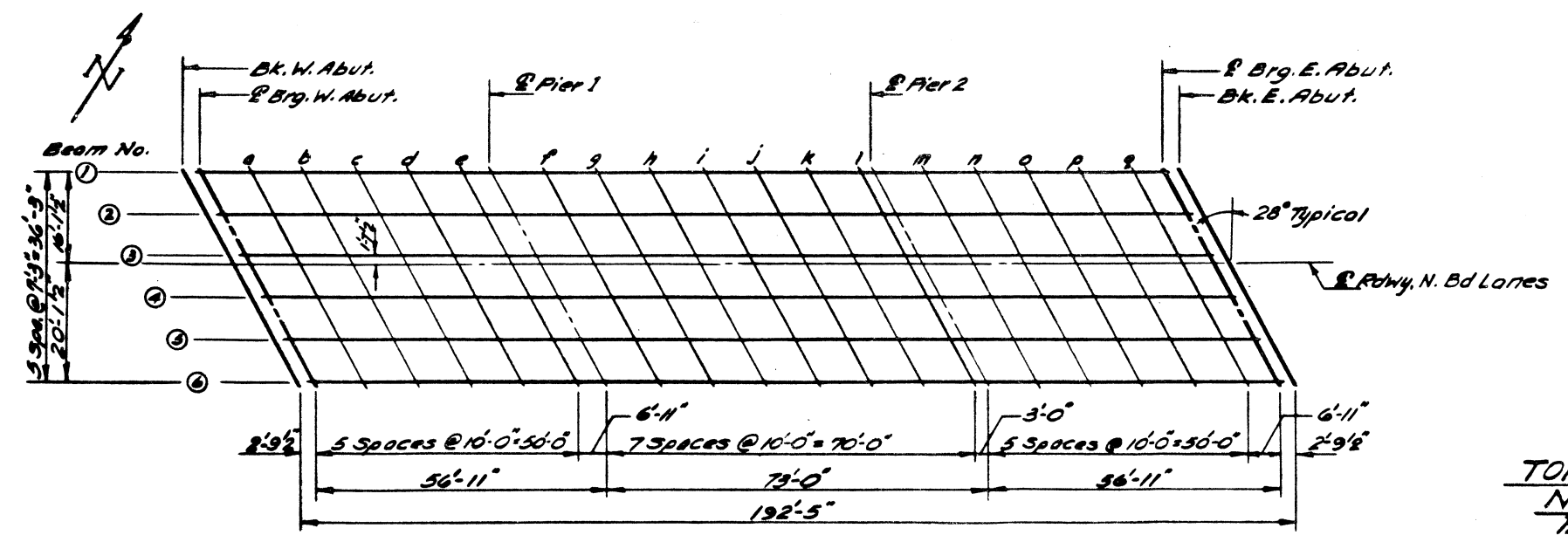


To determine "i": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "i" above top flange of beams.
FILLET HEIGHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 55	57-3B	McLEAN	144	44
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 5
19 SHEETS

See sheet #6 for Beams 4, 5 and 6



**TOP OF SLAB ELEVATIONS
 NORTH BOUND LANES
 I.A.I. RT. 55, SEC. 57-3B
 McLEAN COUNTY
 STA. 322+95**

DESIGNED: Richard S. W.
 CHECKED: [Signature]
 DRAWN: P.G. Barnett
 CHECKED: [Signature]
 E-5 8-1-65

EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]
 DATE: SEPT 24 1971

ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bridge W. Abut.	32231.360	0.0	762.007	762.007
a	32241.360	0.0	761.987	762.003
b	32251.360	0.0	761.968	761.991
c	32261.360	0.0	761.950	761.973
d	32271.360	0.0	761.933	761.945
e	32281.360	0.0	761.916	761.921
Bridge Pier 1	32288.277	0.0	761.905	761.905
f	32298.277	0.0	761.890	761.900
g	32308.277	0.0	761.875	761.896
h	32318.277	0.0	761.862	761.892
i	32328.277	0.0	761.849	761.882
j	32338.277	0.0	761.837	761.861
k	32348.277	0.0	761.826	761.850
l	32358.277	0.0	761.816	761.819
Bridge Pier 2	32361.277	0.0	761.813	761.813
m	32371.277	0.0	761.804	761.811
n	32381.277	0.0	761.796	761.812
o	32391.277	0.0	761.788	761.812
p	32401.277	0.0	761.782	761.804
q	32411.277	0.0	761.776	761.786
Bridge E. Abut.	32418.193	0.0	761.772	761.772

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bridge W. Abut.	32234.351	5.625	761.913	761.913
a	32244.351	5.625	761.894	761.909
b	32254.351	5.625	761.875	761.898
c	32264.351	5.625	761.857	761.875
d	32274.351	5.625	761.840	761.852
e	32284.351	5.625	761.823	761.828
Bridge Pier 1	32291.268	5.625	761.812	761.812
f	32301.268	5.625	761.797	761.808
g	32311.268	5.625	761.783	761.804
h	32321.268	5.625	761.770	761.800
i	32331.268	5.625	761.758	761.791
j	32341.268	5.625	761.746	761.770
k	32351.268	5.625	761.735	761.749
l	32361.268	5.625	761.725	761.728
Bridge Pier 2	32364.268	5.625	761.722	761.722
m	32374.268	5.625	761.714	761.721
n	32384.268	5.625	761.706	761.721
o	32394.268	5.625	761.698	761.722
p	32404.268	5.625	761.692	761.714
q	32414.268	5.625	761.686	761.697
Bridge E. Abut.	32421.184	5.625	761.683	761.683

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bridge W. Abut.	32238.206	12.875	761.788	761.788
a	32248.206	12.875	761.769	761.784
b	32258.206	12.875	761.750	761.773
c	32268.206	12.875	761.732	761.755
d	32278.206	12.875	761.715	761.728
e	32288.206	12.875	761.699	761.704
Bridge Pier 1	32295.122	12.875	761.689	761.689
f	32305.122	12.875	761.674	761.685
g	32315.122	12.875	761.660	761.681
h	32325.122	12.875	761.647	761.678
i	32335.122	12.875	761.635	761.665
j	32345.122	12.875	761.624	761.648
k	32355.122	12.875	761.613	761.627
l	32365.122	12.875	761.604	761.607
Bridge Pier 2	32368.122	12.875	761.601	761.601
m	32378.122	12.875	761.593	761.600
n	32388.122	12.875	761.585	761.601
o	32398.122	12.875	761.578	761.602
p	32408.122	12.875	761.572	761.594
q	32418.122	12.875	761.567	761.577
Bridge E. Abut.	32425.039	12.875	761.564	761.564

LONGITUDINAL BONDED CONST. JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bridge W. Abut.	32239.867	16.000	761.720	761.720
a	32249.867	16.000	761.700	761.716
b	32259.867	16.000	761.682	761.705
c	32269.867	16.000	761.664	761.687
d	32279.867	16.000	761.648	761.660
e	32289.867	16.000	761.632	761.637
Bridge Pier 1	32294.784	16.000	761.621	761.621
f	32304.784	16.000	761.607	761.617
g	32314.784	16.000	761.593	761.614
h	32324.784	16.000	761.580	761.611
i	32334.784	16.000	761.568	761.602
j	32344.784	16.000	761.557	761.581
k	32354.784	16.000	761.547	761.560
l	32364.784	16.000	761.537	761.540
Bridge Pier 2	32369.784	16.000	761.535	761.535
m	32379.784	16.000	761.526	761.532
n	32389.784	16.000	761.519	761.534
o	32399.784	16.000	761.512	761.536
p	32409.784	16.000	761.506	761.528
q	32419.784	16.000	761.501	761.512
Bridge E. Abut.	32426.701	16.000	761.498	761.498

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bridge W. Abut.	32242.061	20.125	761.630	761.630
a	32252.061	20.125	761.610	761.626
b	32262.061	20.125	761.592	761.615
c	32272.061	20.125	761.575	761.597
d	32282.061	20.125	761.558	761.571
e	32292.061	20.125	761.543	761.547
Bridge Pier 1	32298.977	20.125	761.532	761.532
f	32308.977	20.125	761.518	761.528
g	32318.977	20.125	761.504	761.525
h	32328.977	20.125	761.492	761.522
i	32338.977	20.125	761.480	761.513
j	32348.977	20.125	761.469	761.493
k	32358.977	20.125	761.459	761.473
l	32368.977	20.125	761.450	761.453
Bridge Pier 2	32371.977	20.125	761.447	761.447
m	32381.977	20.125	761.439	761.446
n	32391.977	20.125	761.431	761.447
o	32401.977	20.125	761.425	761.449
p	32411.977	20.125	761.419	761.441
q	32421.977	20.125	761.414	761.425
Bridge E. Abut.	32428.894	20.125	761.411	761.411

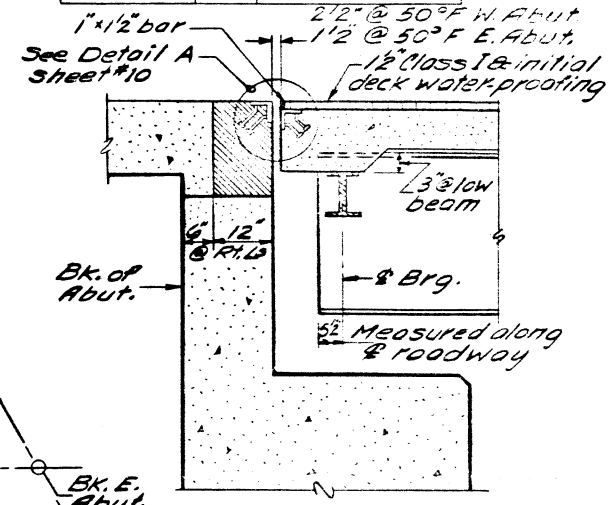
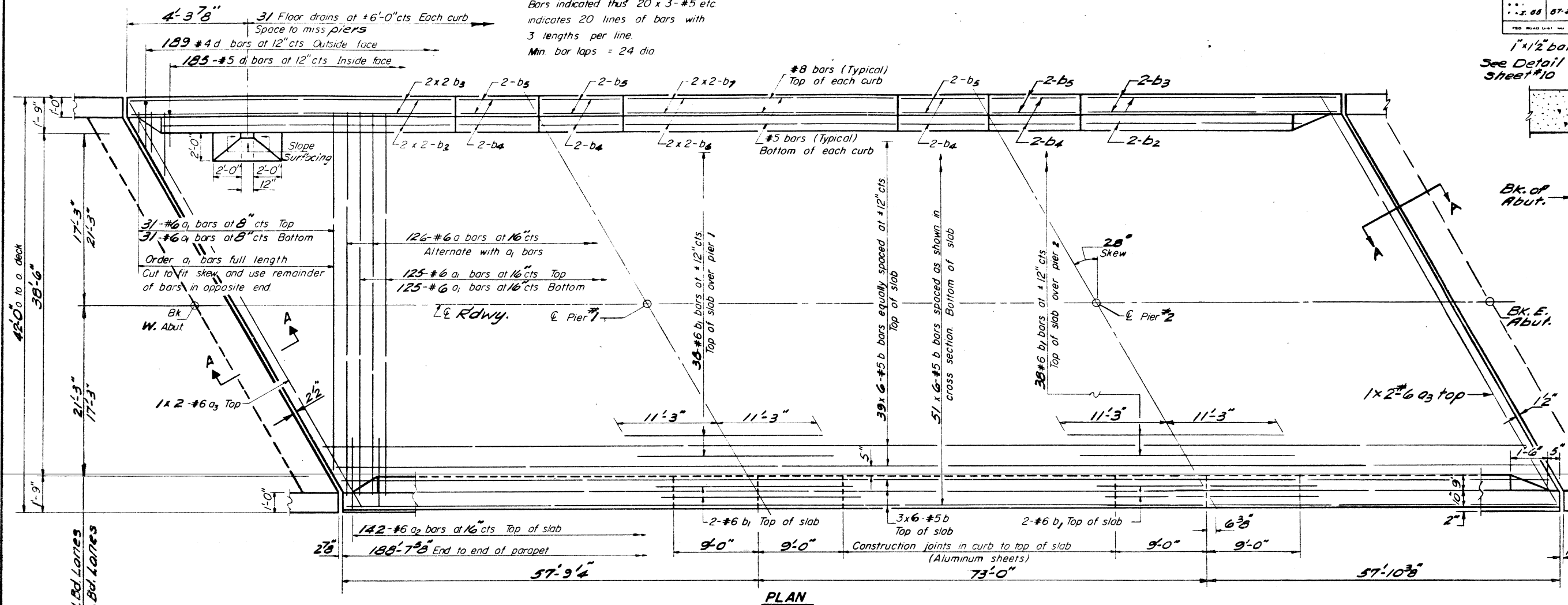
DESIGNED *Prokash S. W.*
 CHECKED *[Signature]*
 DRAWN *L.H.*
 CHECKED *PSL*

SEPT 24 1971
 EXAMINED *[Signature]*
 PASSED *[Signature]*
 APPROVED *[Signature]*

TOP OF SLAB ELEVATIONS
 NORTH BOUND LANES
 FAI RT. 55 SEC. 57-38
 MCLEAN COUNTY
 STA. 322+95

Note:

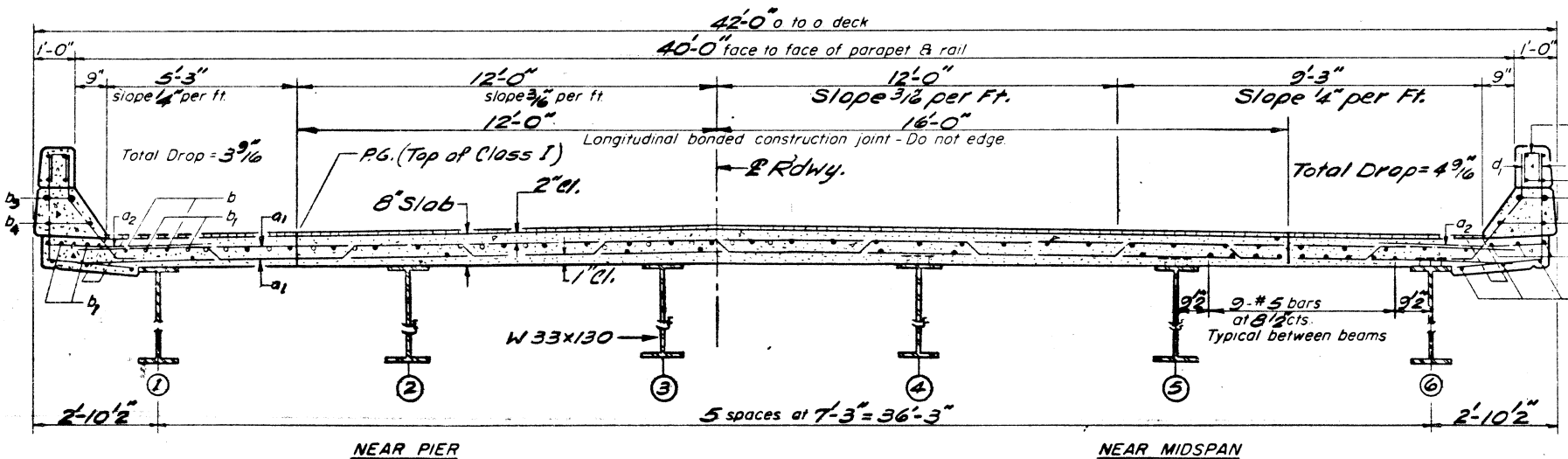
Bars indicated thus 20 x 3-#5 etc indicates 20 lines of bars with 3 lengths per line.
Min bar laps = 24 dia



SEC. A-A

TWO BRIDGES
BILL OF MATERIAL

Bar	No	Size	Length	Shape
a	252	#6	41'-0"	~
a ₁	624	#6	20'-0"	~
a ₂	568	#6	4'-0"	~
a ₃	8	#6	24'-0"	~
b	1152	#5	33'-0"	~
b ₁	168	#6	22'-0"	~
b ₂	32	#5	25'-0"	~
b ₃	32	#8	25'-0"	~
b ₄	32	#5	8'-3"	~
b ₅	32	#8	8'-3"	~
b ₆	16	#5	28'-0"	~
b ₇	16	#8	28'-0"	~
d	756	#4	4'-8"	J
d ₁	740	#5	3'-5"	J
d ₂	184	#4	2'-1"	□
Reinforcement Bars			Lbs	113,230
Structural Steel			Lbs	366,640
Class X Concrete			Cu Yds	463.1

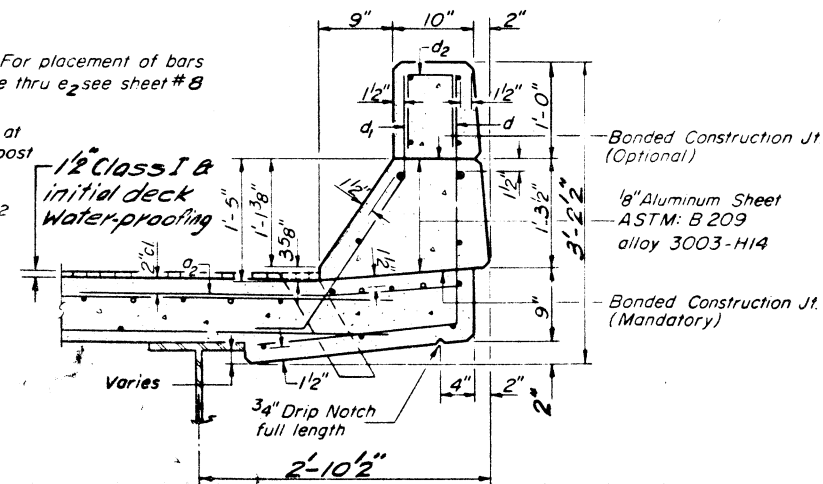


NEAR PIER

CROSS SECTION

Looking In Direction of Traffic

NEAR MIDSPAN

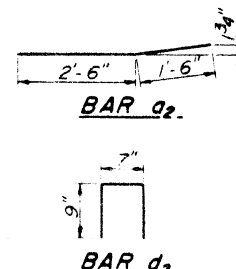
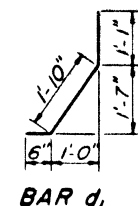
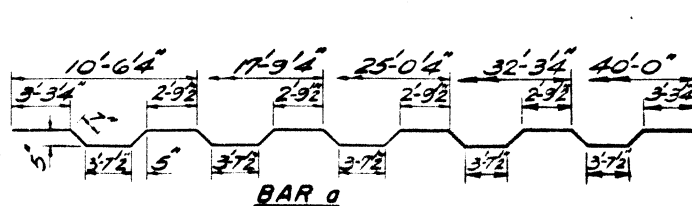
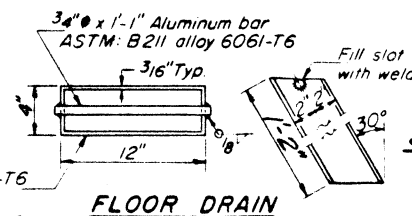
Note: For placement of bars
d₂ & e thru e₂ see sheet #8

CURB SECTION

Cost of Aluminum Drains and Sheets
shall be incidental to Class X ConcreteNote: For deck surfacing
detail, see sheet #8

DESIGNED	Prakash S. G.
CHECKED	Gene McLeod
DRAWN	Leona Heeren
CHECKED	GM

EXAMINED	John Baumann
PASSED	John Baumann
REMOVED	John Baumann

Aluminum Sheets Welded
ASTM: B209 alloy 6061-T6
or Aluminum Extrusions
ASTM: B221 alloy 6061-T6

FLOOR DRAIN

*Weight of bearing assemblies with lead
plates and anchor bolts are included
as structural steel
Est. Wt. = 12710 lbs.The lengths and quantities of longitudinal
reinforcement and Class X Concrete in
parapets are not included in above
quantities. See sheet #8

SUPERSTRUCTURE
SOUTH & NORTH BOUND LANES
F.A.I. RT. 55 SEC. 57-3B
MCLEAN COUNTY
STATION 322+95



Figure 10 is a technical drawing showing a detail of a roof edge. It features a 45-degree slope indicated by a line and the text "45°". A horizontal line represents the roof surface, and a vertical line represents the edge. A gap of 1/2 inch is shown between the roof surface and the edge. The drawing is labeled "Bk. Abut." with an arrow pointing to the back of the abutment.

Diagram illustrating a joint in the curb to the top of the slab, showing the connection between aluminum sheets and the pier. The diagram includes the following labels and dimensions:

- Joints in curb to top of slab**
- 6" aluminum sheets**
- 6" Pier**
- 2"** (vertical dimension on the right)
- 1'-7"** (horizontal dimension on the right)
- 1/2" Drain holes under Interlayer Protective Coat at each joint.**

Diagram illustrating the cross-section of a composite deck structure. The structure consists of a 1/8" Aluminum Sheet (indicated by a label) and an Interlayer Protective Coat (indicated by a label). A note specifies: "Do not provide opening in Interlayer Protective Coat". The diagram also shows a "formed" section of the structure.

1/2" ϕ drilled or formed
drain holes at each
joint in curb.

Diagram illustrating the expansion joint details for a 2' x 4' slab. The slab is divided into two 1'-2" sections by a central expansion joint. The joint is detailed with a 1/2" gap at the expansion joint and a 3/8" gap at the rail splice.

1/2" Bituminous Concrete Surface Course, Class I

Coal Tar Emulsion Slurry with 0.3 Gal./Sq. Yd. incl. (Cure 24 Hr.)

Fiberglass Fabric 1.65 Oz./Sq. Yd. (Cure 4 Hr.)

Coal Tar Emulsion with 0.08 to 0.10 Gal./Sq.Yd. (Cure 4 Hr.)

Fiberglass Fabric 1.65 Oz./Sq. Yd. (Cure 4 Hr.)

Coal Tar Emulsion with 0.08 to 0.10 Gal./Sq. Yd. (Cure 4 Hr.)

Penetrating Primer 0.01 Gal./Sq.Yd. (Cure 24 Hr.)

Clean Concrete Surface

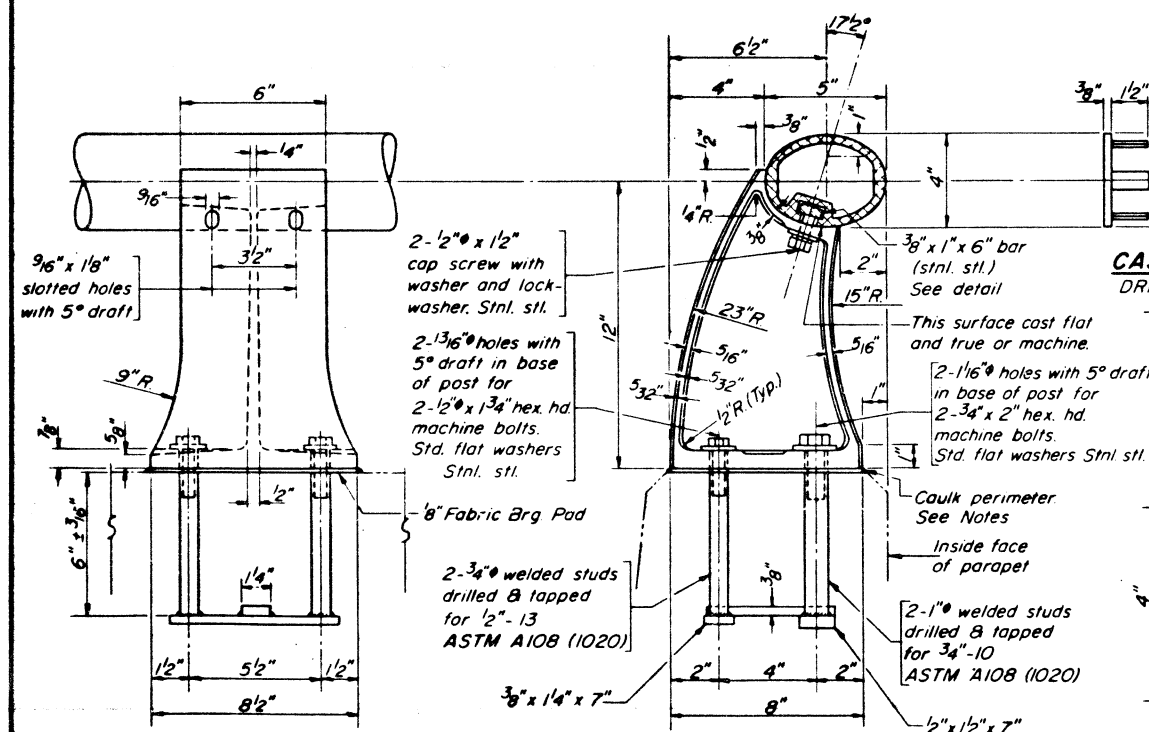
Top Concrete Deck

To be Coat Protection

6'0"

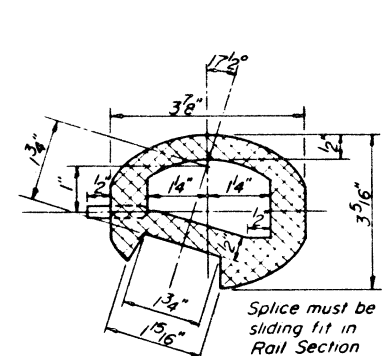
DETAIL OF DECK SURFACING

DETAIL OF DECK SURFACING

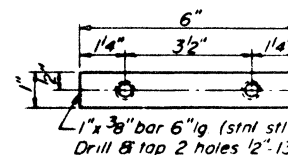


CAST END CAP
DRIVE FIT TYPE
8 Required

SEC. THRU ELLIPTICAL
RAIL SECTION



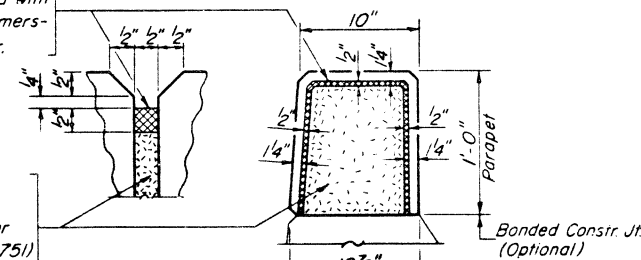
SEC. THRU SPLICE



CLAMP BAR

*1/2" Preformed Cork
Asphalt Joint Filler.
(meets qualifications for
ASTM: Designation D 1751)
Cost incidental.*

PARAPET JOINT DETAIL



☐ Bonded Constr. Jt.
(Optional)

TWO BRIDGES
PARAPETS & RAILS
BILL OF MATERIAL

<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
e	96	#4	16'-0"	_____
e ₁	64	#4	8'-9"	_____
e ₂	48	#4	18'-0"	_____
<i>Reinforcement Bars</i>			Lbs	1980
<i>Glass X Concrete</i>			Cu Yds	24.4
<i>Aluminum Railing</i>			Lin Ft	755

ALUMINUM RAILING
NORTH AND SOUTH
BOUND LANES
F.A. RT.55 SEC.57-3B
MCLEAN COUNTY
STATION 322+95

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

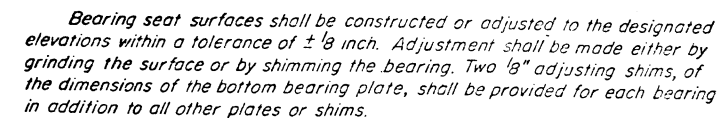
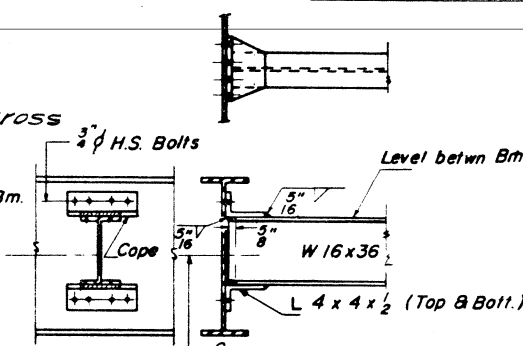
Provide 1 - 1/8" and 2 - 1/16" Aluminum Shim for 25% of the Posts.
Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.

DESIGNED *Prakash S. W*
CHECKED *Gene McCormick*
DRAWN *Leona Heeren*
CHECKED *GM* *P36*

SEPT 34 1974
 EXAMINED *[Signature]*
 ENGINEER, BRIDGES AND TRAFFIC STRUCTURES
 PASSED *[Signature]*
 ENGINEER OF DESIGN
 APPROVED *[Signature]*
 RICHARD H. GILBERTMAN
 ENGINEER, BRIDGES AND TRAFFIC STRUCTURES

[illegible]

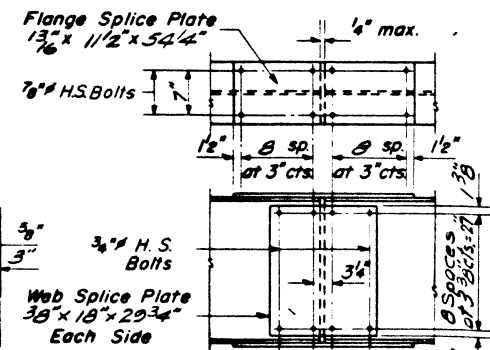
DIAPHRAGM D
80 Required
(Two Bridges)

ELEVATION TOP OF W
(For Fabrication only)
SOUTH BOUND LANES

	Begm	Begm	Begm	Begm	Begm	Begm
E Brq W. Brq.	761.15	761.29	761.40	761.45	761.33	761.13
E Brq. P. Brq.	760.98	761.12	761.23	761.28	761.16	761.02
E Splice	760.93	761.07	761.19	761.24	761.12	760.98
E Splice 2	760.85	760.99	761.11	761.16	761.04	760.90
E Brq. P. Brq. 2	760.84	760.99	761.10	761.16	761.04	760.90
E Brq. E. Brq.	760.81	760.96	761.07	761.13	761.01	760.87

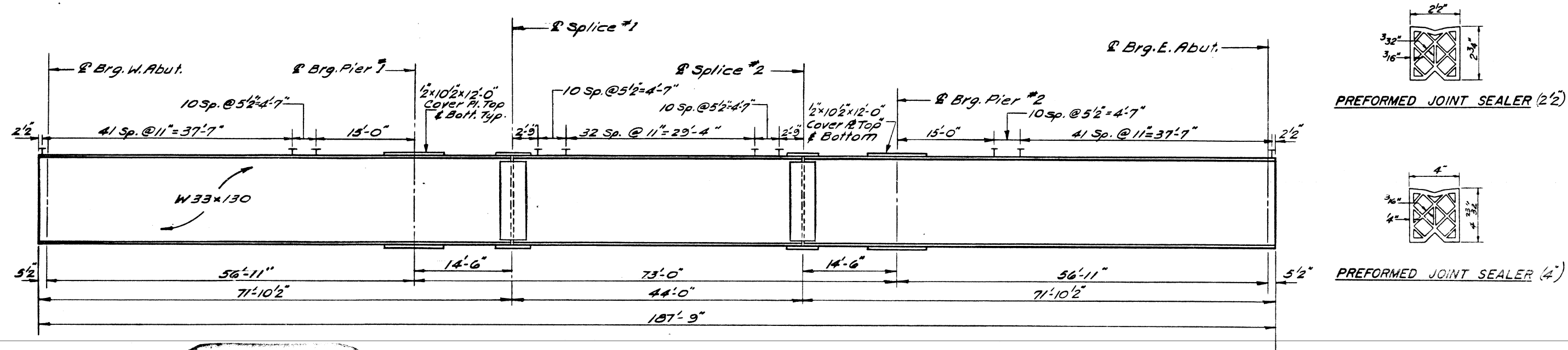
	<u>Beqm</u>	<u>Beqm</u>	<u>Beqm</u>	<u>Beqm</u>	<u>Beqm</u>	<u>Beqm</u>
\$Brg. E. Abut.	761.09	761.22	761.32	761.25	761.13	761.07
\$Brg. Pier 2	760.94	761.07	761.18	761.11	760.98	760.83
\$Splice 1	760.90	761.03	761.14	761.07	760.95	760.72
\$Splice 2	760.85	760.98	761.09	761.02	760.90	760.74
\$Brg. Pier 2	760.85	760.98	761.09	761.02	760.90	760.74
\$Brg. E. Abut.	760.84	760.97	761.09	761.02	760.90	760.75

STRUCTURAL STEEL
NORTH & SOUTH BOUNDARIES
F&I RT.55 SEC.57-3B
MCLEAN COUNTY
STATION 322+95

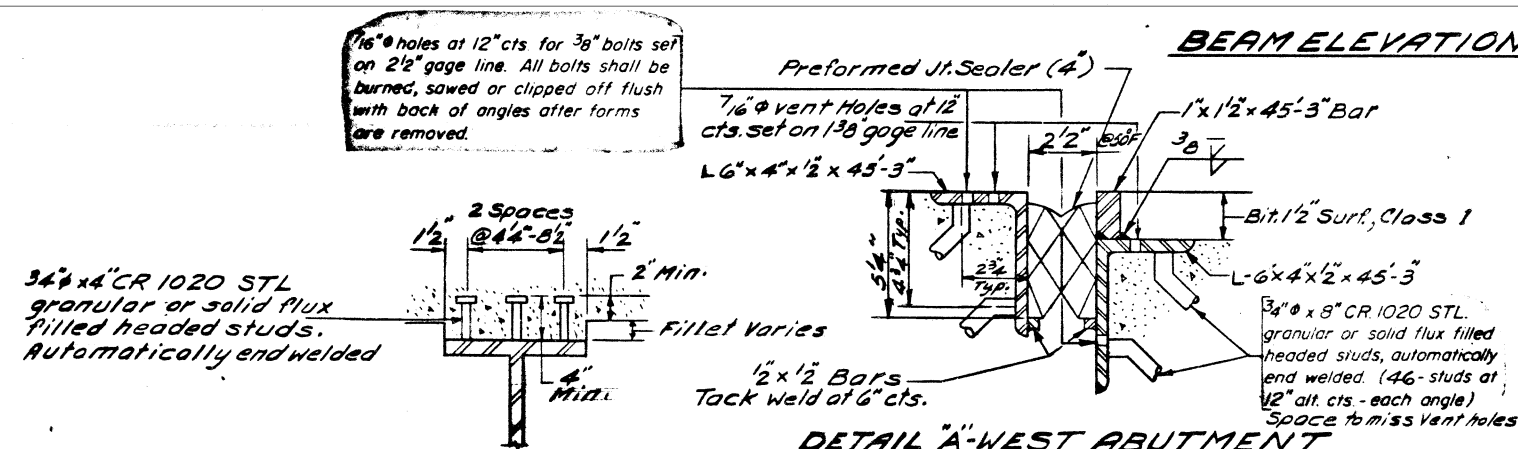


(24 Req'd)
DETAIL OF SPLICE

DESIGNED <i>Richard S. Gid</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	DIRECTOR OF HIGHWAY AND TRAFFIC STRUCTURES
P.G. Barnett	PASSED <i>2 1/2</i>
DRAWN <i>W. A. Sausaman Jr.</i>	APPROVED <i>[Signature]</i>
CHECKED <i>GM</i>	CHIEF HIGHWAY ENGINEER



BEAM ELEVATION



DETAIL 'A'-WEST ABUTMENT

(From Section A-A Sheet 7)

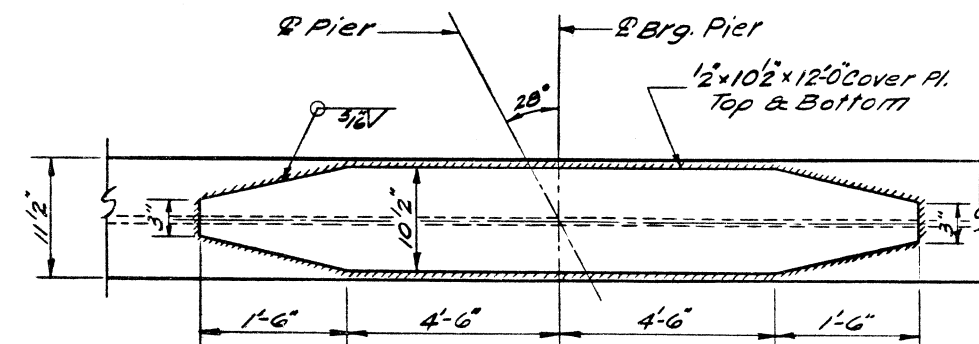
MOMENT TABLE

	0.4 Span	Pier	0.5 Span 2
I_s (in ⁴)	6710	9674	6710
I_c (in ⁴)	17486		17486
S_s (in ³)	406	568	406
S_c (in ³)	587		587
D_s (in)	0.901	1.305	0.901
M_D (K)	187	556	191
I_s (ksi)	3.5	11.75	5.6
S_D (in)	0.404		0.404
M_S (K)	99		123
M_L (K)	417	281	482
M_{imp} (K)	112	73	120
$TOTAL$ (K)	628	354	725
R_s (ksi)	12.8	7.50	14.9
R_{Total} (ksi)	18.3	19.25	20.5
Max. Shear Range (L.L. Imp) = 53.91			

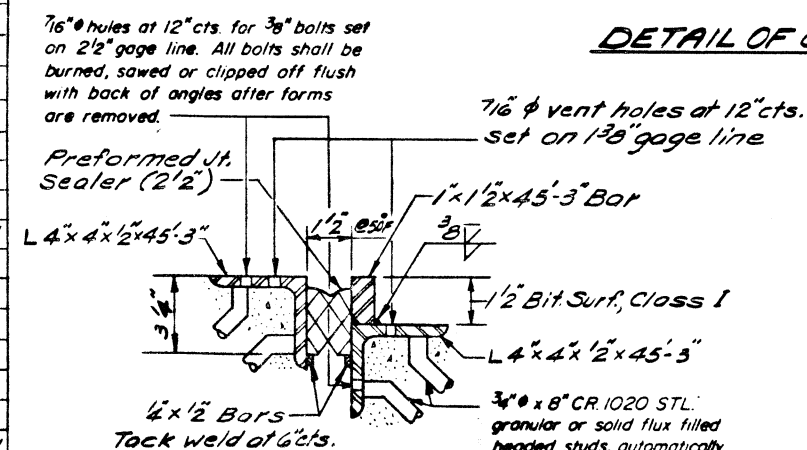
REACTION TABLE

	Abut.	Pier
R_{D+S} (K)	27.37	94.55
R_L (K)	38.42	48.63
$Imp.$ (K)	10.37	12.64
R_{Total} (K)	76.16	155.82

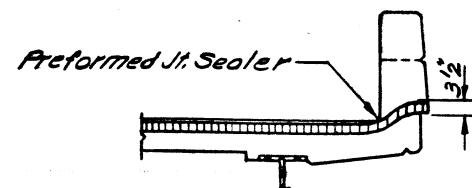
I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are moment of inertia and section modulus of the composite section used in computing f_s



DETAIL OF COVER PLATE @ PIERS 1 & 2

DETAIL 'A'-EAST ABUTMENT
(From Section A-A Sheet 7)

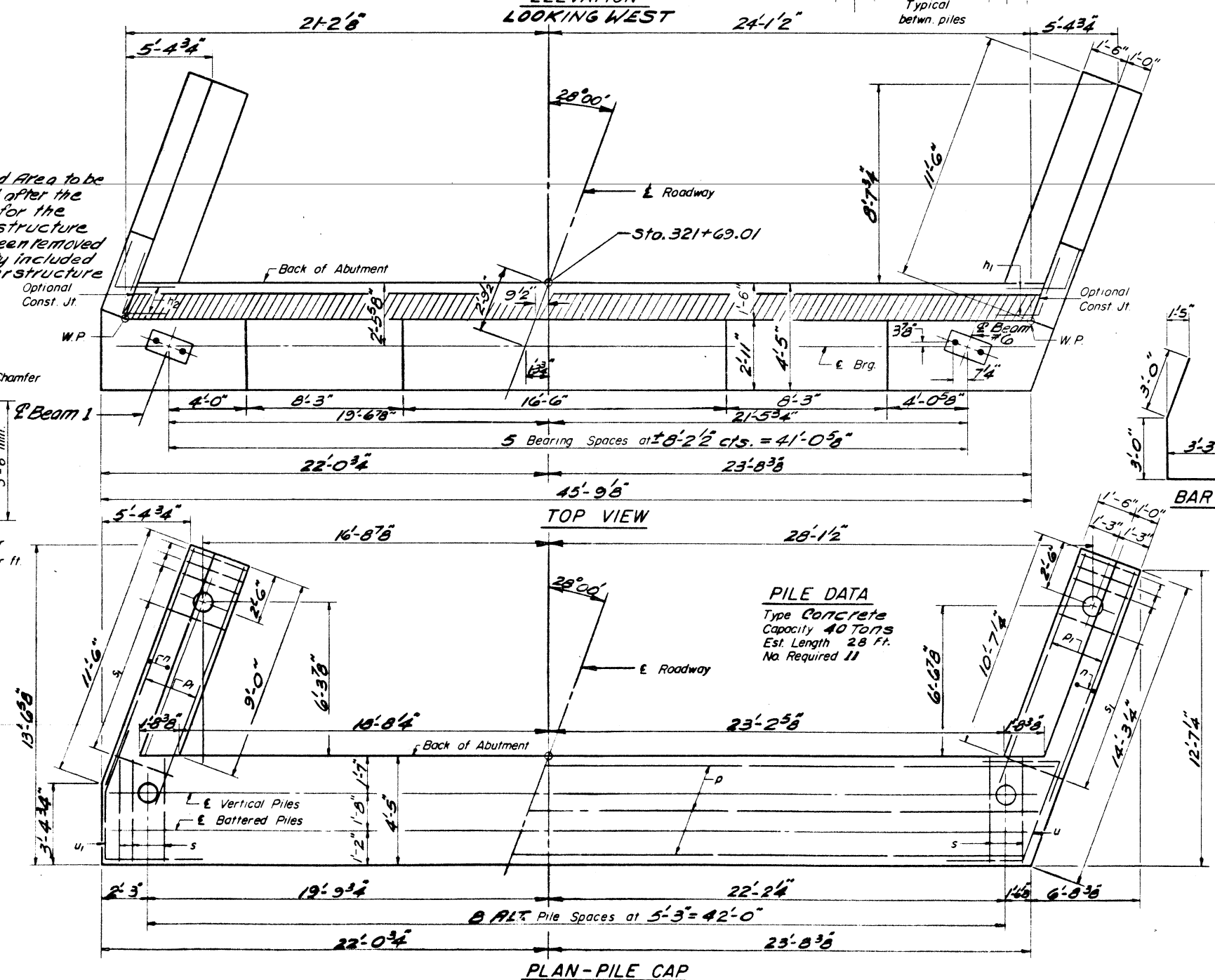
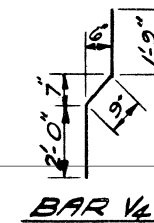
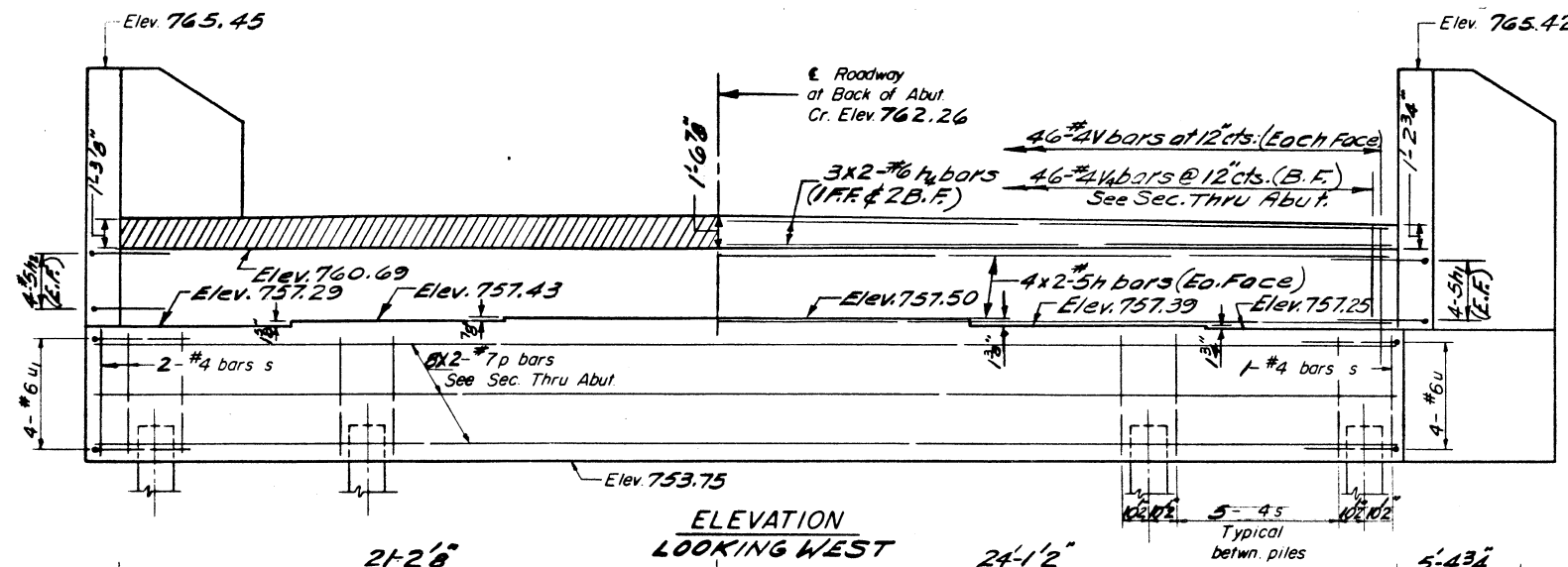
BEAM ELEVATION
 NORTH & SOUTH
 BOUND LANES
 P.A.I. 55 SEC. 57-3B
 McLEAN COUNTY
 STA. 322+95



TYPICAL END OF SEALER TREATMENT

DESIGNED	Paul S. W.
CHECKED	Leon Heeren
DRAWN	Leon Heeren
CHECKED	G.M.

EXAMINED	SEPT. 24 1971
PASSED	W. E. Baumann
APPROVED	Richard H. Hatterman



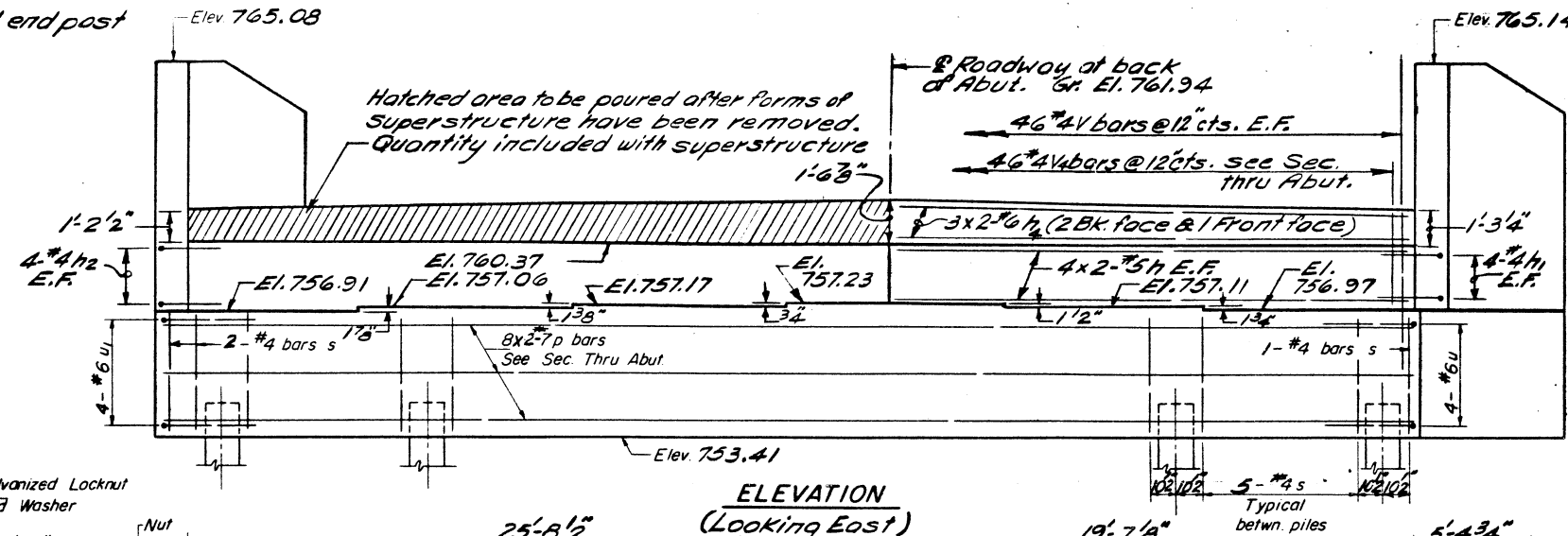
DESIGNED *Poakash S. (w)*
CHECKED *Hene McCormick*
DRAWN *Leono Heeren*
CHECKED *GM* *P9L*

SEPT 24 1971
EXAMINED *[Signature]*
ENGINEER IN CHARGE OF TRAFFIC STRUCTURES
PASSED *W E Baumann*
ENGINEER OF DESIGN
APPROVED *Richard A. Holterman*
DIST. SECRETARY

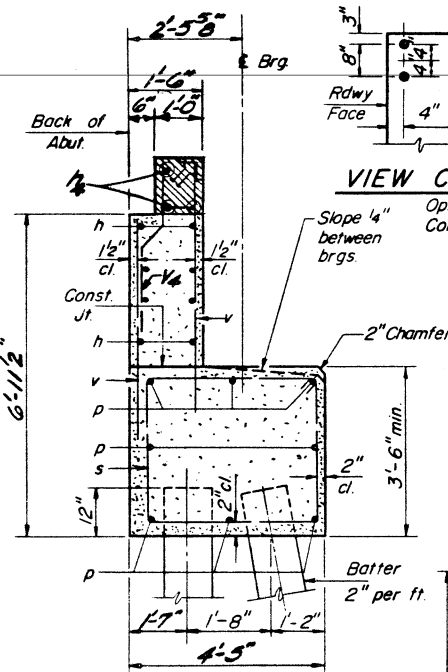
BILL OF MATERIAL				
Bar	No	Size	Length	Shape
<i>h</i>	16	#5	23'-0"	—
<i>h₁</i>	8	#5	5'-0"	J
<i>h₂</i>	8	#5	5'-0"	L
<i>h₃</i>	36	#4	11'-3"	—
<i>h₄</i>	6	#6	23'-3"	—
<i>n</i>	24	#5	8'-9"	U
<i>p</i>	16	#7	24'-0"	—
<i>p₁</i>	12	#7	11'-3"	—
<i>s</i>	43	#4	15'-1"	□
<i>s₁</i>	22	#4	9'-5"	□
<i>u</i>	4	#6	11'-7"	□
<i>u₁</i>	4	#6	9'-3"	L
<i>v</i>	92	#4	5'-6"	—
<i>v₁</i>	16	#4	7'-3"	—
<i>v₂</i>	16	#4	7'-1"	—
<i>v₃</i>	16	#4	6'-5"	—
<i>v₄</i>	46	#4	4'-6"	—
Class X Concrete			Cu Yds	23.4
Reinforcement Bars			Lbs	3630
Concrete Piles			Lin Ft	308

WEST ABUTMENT
SOUTH BOUND LANES
RAIL PT 35 SEC. 57-3B
MCLEAN COUNTY
STATION 322+95

Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



ELEVATION
(Looking East)



SEC. THRU ABUT.

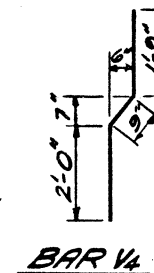
DESIGNED	Prakash S. (w)
CHECKED	Gene McLaughlin
DRAWN	Leona Heeren
CHECKED	GM P5L

SEPT. 24 1971

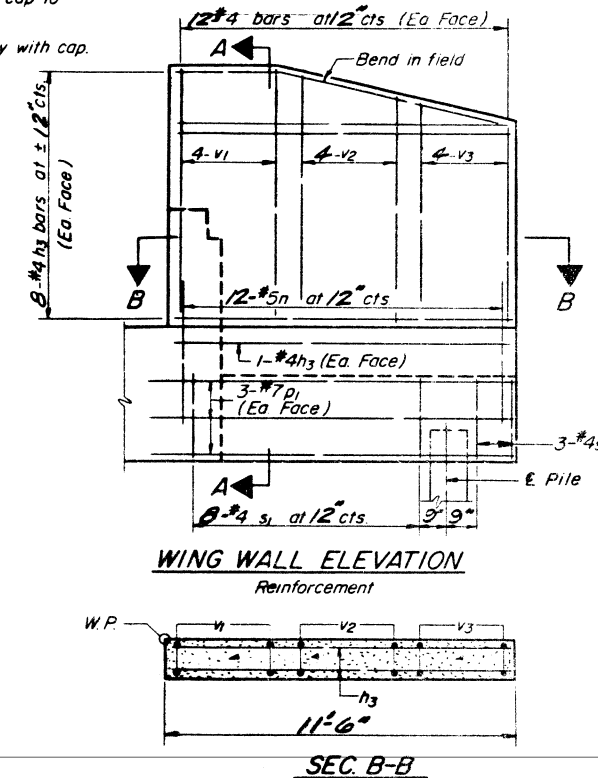
EXAMINED *[Signature]*
ENGINEER IN CHARGE AND TRAFFIC STRUCTURES

PASSED *[Signature]*
ENGINEER OF DESIGN

APPROVED *[Signature]*
CHIEF HIGHWAY ENGINEER



BAR V4

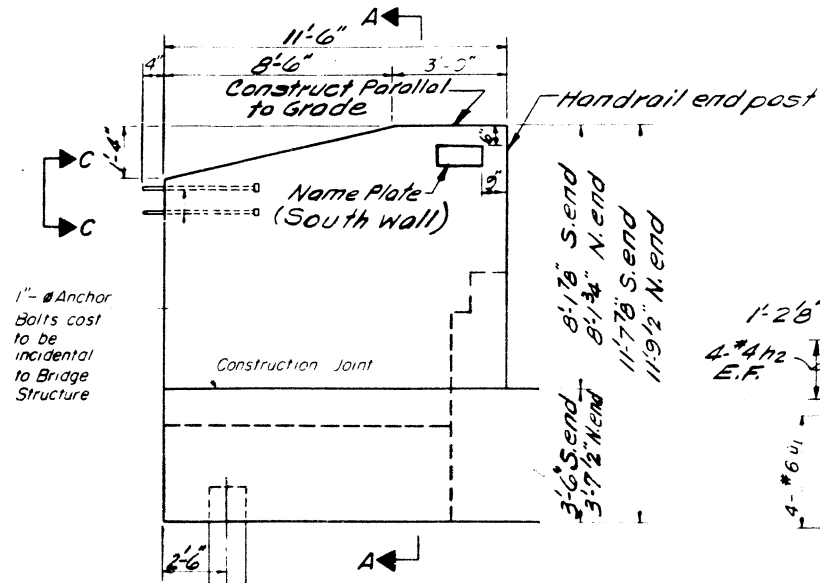


WING WALL ELEVATION
Reinforcement

SEC. B-B

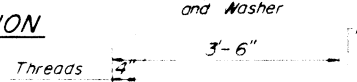
Bar	No	Size	Length	Shape
n	16	#5	23'-0"	—
n ₁	8	#5	5'-0"	┘
n ₂	8	#5	5'-0"	└
n ₃	36	#4	11'-3"	—
n ₄	6	#6	23'-3"	—
n	24	#5	8'-9"	┘
p	16	#7	24'-0"	—
p ₁	12	#7	11'-3"	—
s	43	#4	15'-1"	□
s ₁	22	#4	9'-5"	□
u	4	#6	11'-7"	┘
u ₁	4	#6	9'-3"	└
v	92	#4	3'-6"	—
v ₁	16	#4	7'-9"	—
v ₂	16	#4	7'-1"	—
v ₃	16	#4	6'-5"	—
v ₄	46	#4	4'-6"	┘
Class X Concrete			Cu Yds.	48.4
Reinforcement Bars			Lbs.	3630
Concrete Piles			Lin Ft	270
Test Piles (Concrete)			Ea	1

EAST ABUTMENT
SOUTH BOUND LANES
PA. RT. 55 SEC. 57-3B
MCLEAN COUNTY
STATION 322+95

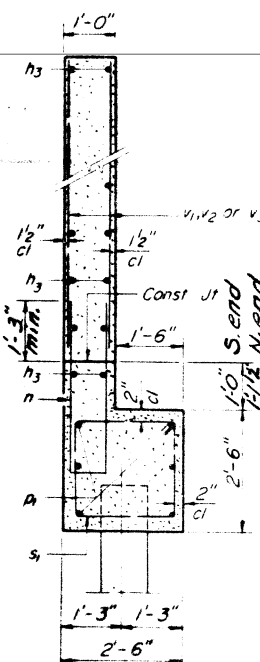


WING WALL ELEVATION

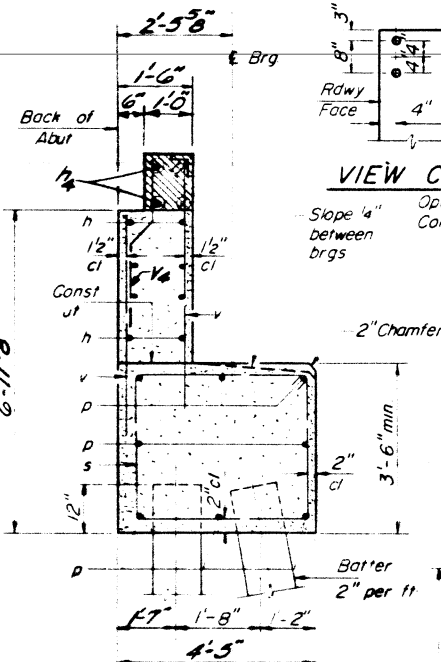
Galvanized Locknut and Washer



1" Ø ANCHOR BOLT



SEC. A-A



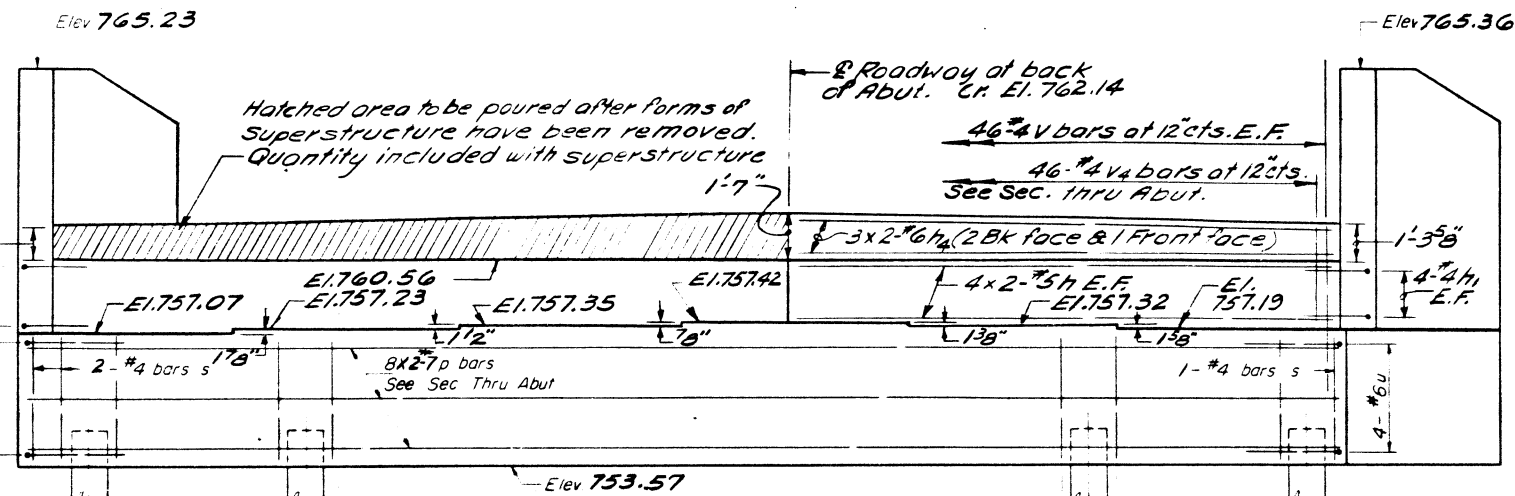
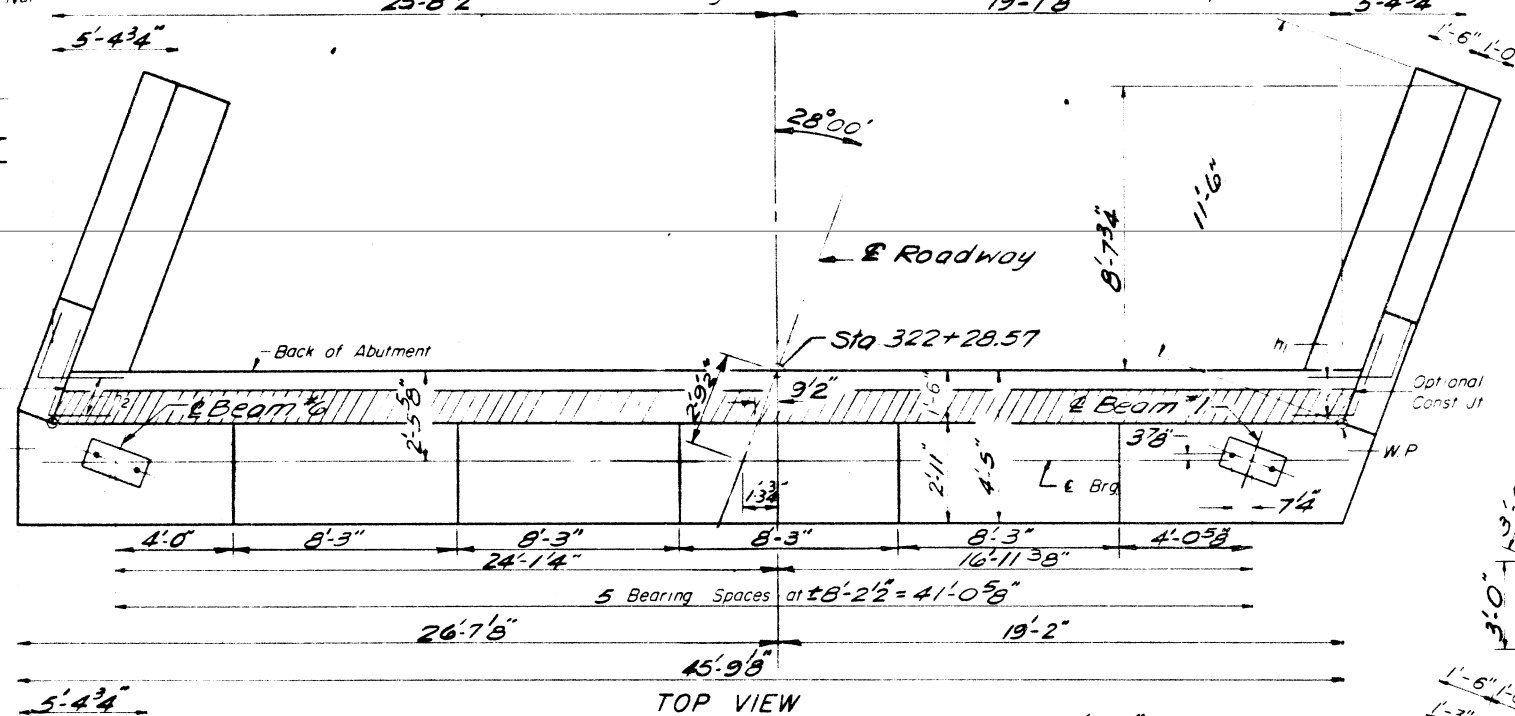
SEC. THRU ABUT

Note:
Bars indicated thus 20x3-#5 etc.
indicates 20 lines of bars with 3
lengths per line. Min. bar laps = 24 Dia.

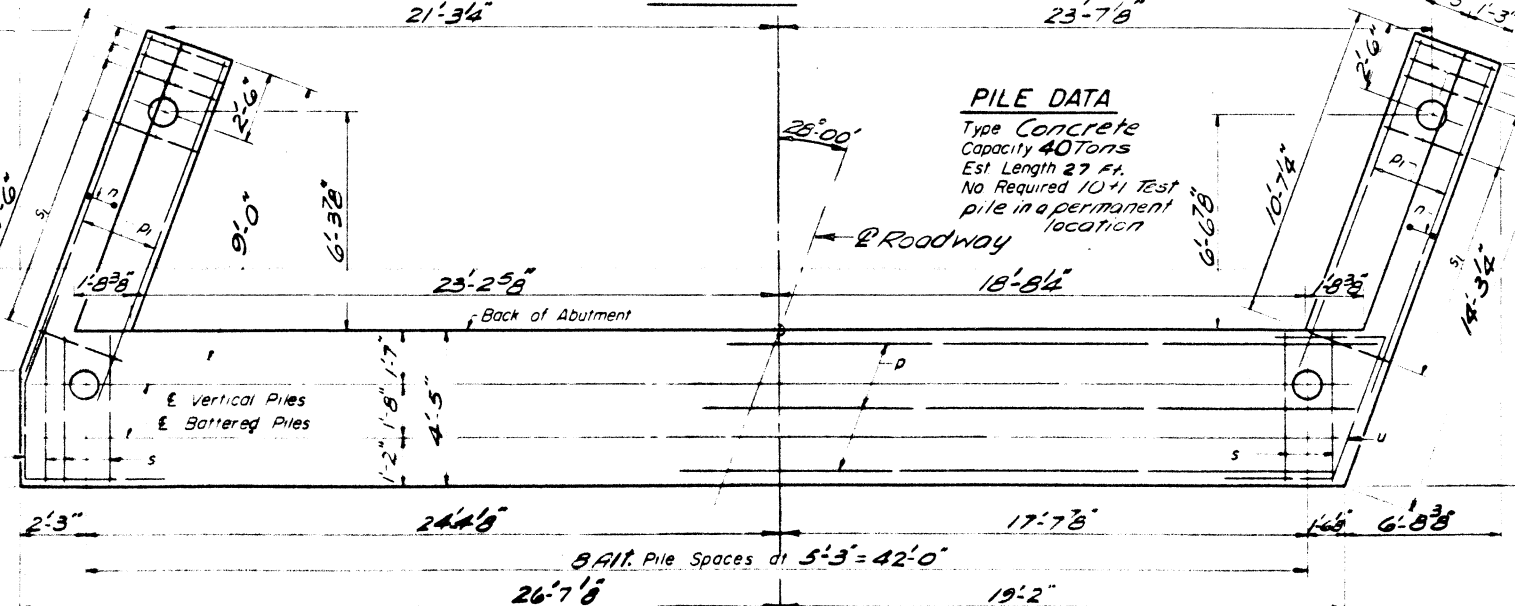
DESIGNED *Richard S. W.*
CHECKED *Gene McLean*
DRAWN *Leona Heeren*
CHECKED *GM*

EXAMINED *SEPT 24 1971*
PASSED *W. C. Baumann*
APPROVED *Richard H. Hottelmann*
CHIEF HIGHWAY ENGINEER

A-9-R (15°-34°) 2-1-66, 8-1-70

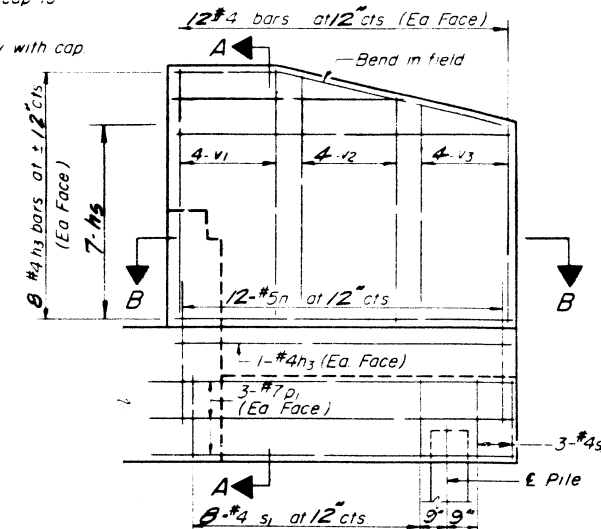
ELEVATION
Looking West

TOP VIEW



PLAN-PILE CAP

Space reinforcement in cap to
miss anchor bolts
Pour steps monolithically with cap

WING WALL ELEVATION
Reinforcement

SEC. B-B

BILL OF MATERIAL

Bar	No	Size	Length	Shape
n	16	#5	3'-0"	—
n1	8	#5	3'-0"	—
n2	8	#5	3'-0"	—
n3	36	#4	11'-3"	—
n4	6	#6	23'-3"	—
n	24	#5	8'-9"	U
p	16	#7	24'-0"	—
p1	12	#7	11'-3"	—
s	43	#4	15'-1"	□
s1	22	#4	9'-5"	□
u	4	#6	11'-7"	—
u1	4	#6	3'-3"	L
v	92	#4	3'-6"	—
v1	16	#4	7'-9"	—
v2	16	#4	7'-1"	—
v3	16	#4	6'-5"	—
v4	46	#4	4'-6"	—
Class X Concrete			Cu lbs	48.4
Reinforcement Bars			Lbs	3630
Concrete Piles			Lin. Ft	270
Test Piles (Concrete)			Eo	1

WEST ABUTMENT
NORTH BOUND LANES
MI. RT 55 SEC. 57-38
MCLEAN COUNTY
STATION 322+35

Note: Bars indicated thus 20x3-#5 etc.
indicates 20 lines of bars with
3 lengths per line
Min. bar laps = 24 Dia.

PILE DATA

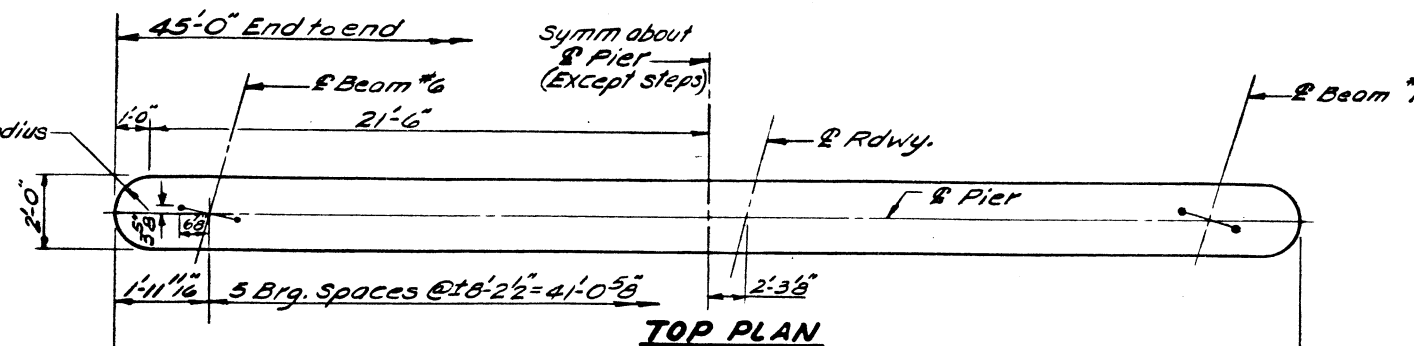
Type-----Concrete
Capacity-----35 Tons
Est. Length-----20 Ft. at Pier #1, 15 Ft. at Pier #2
No. Required-----35+1 Test pile
in a permanent
location at pier #1

STATE OF ILLINOIS

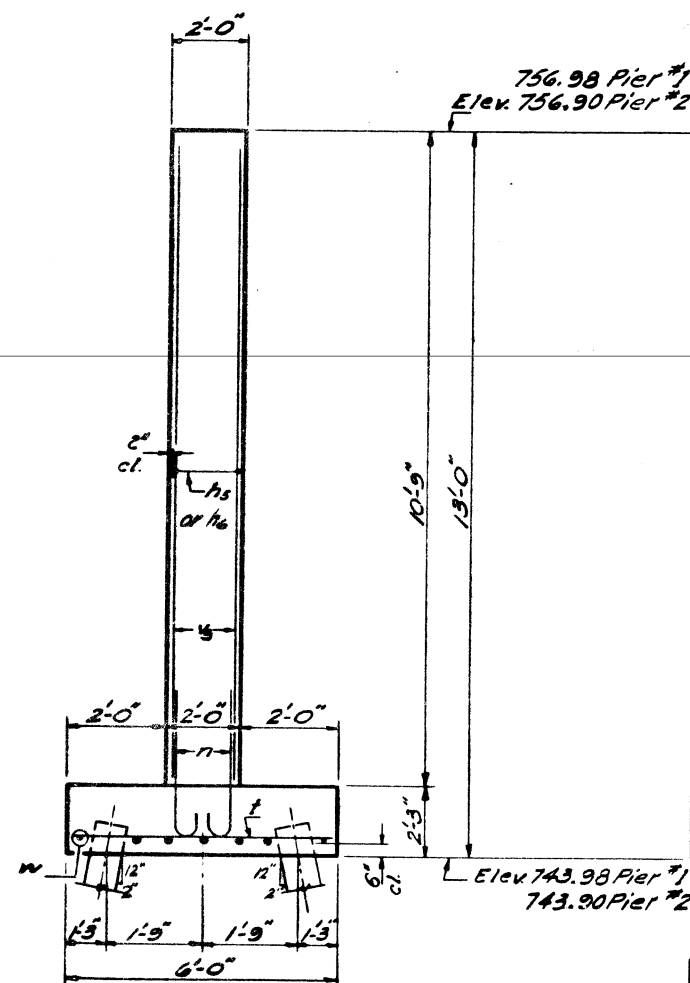
Note: All exposed edges shall
have standard 3/4" Chamfer.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. R. 1.	57-38	McLean	44	54
F.A.S. 03				
P.B. ROAD DIST. NO. 7	ILLINOIS	P.B. A16 PROJECT		

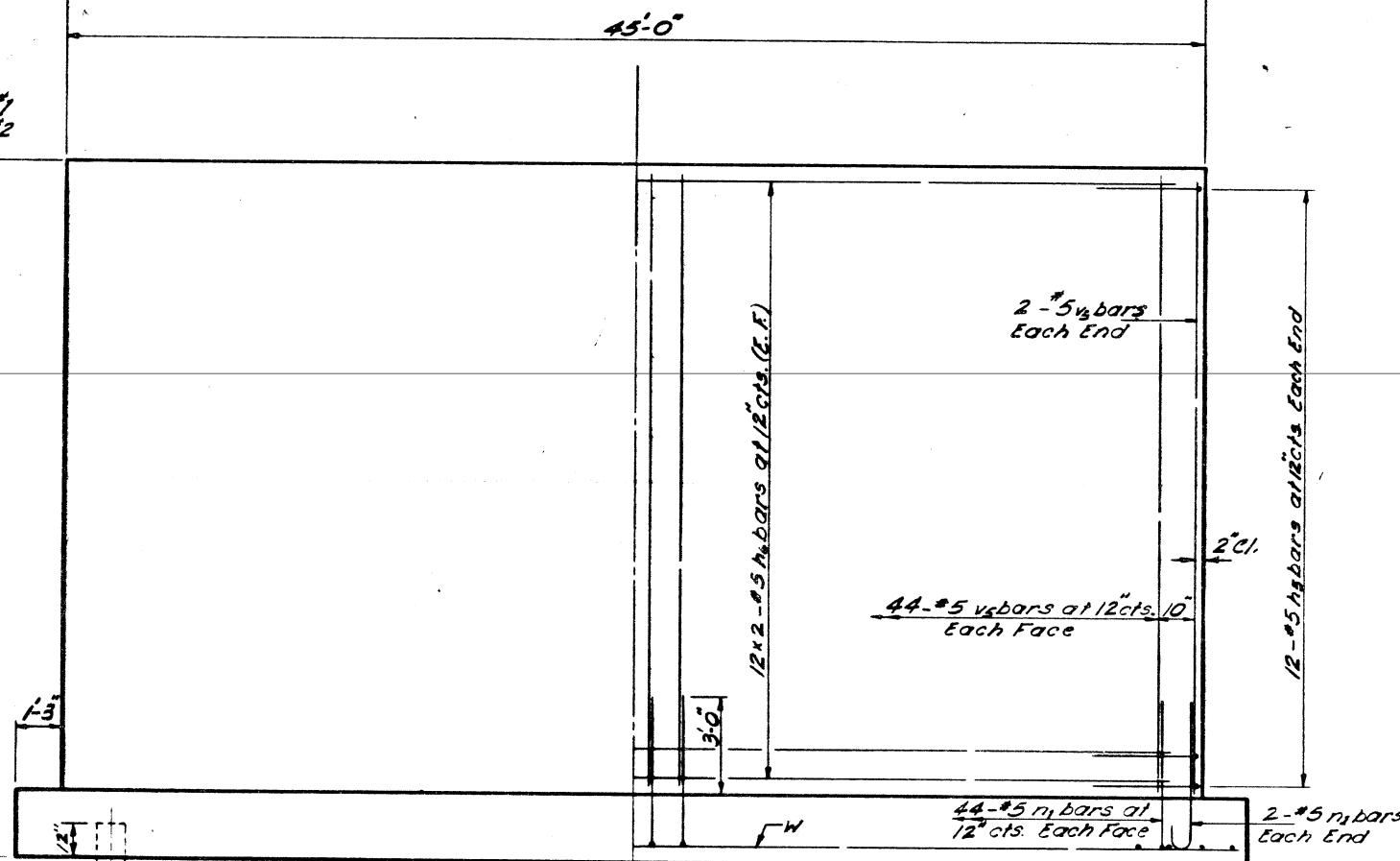
SHEET NO. 15
19 SHEETS



TOP PLAN

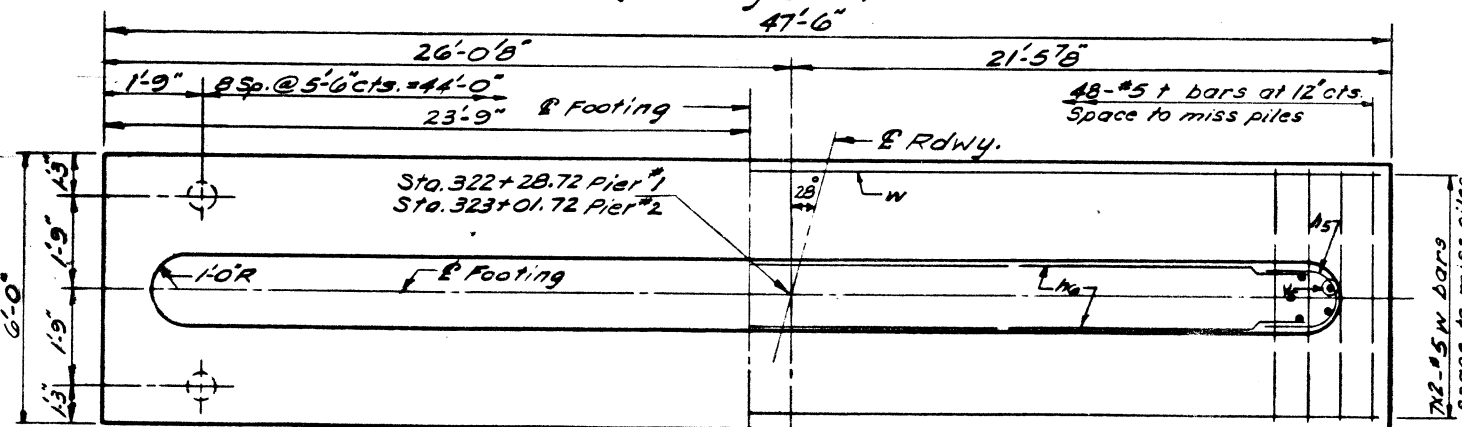


END VIEW

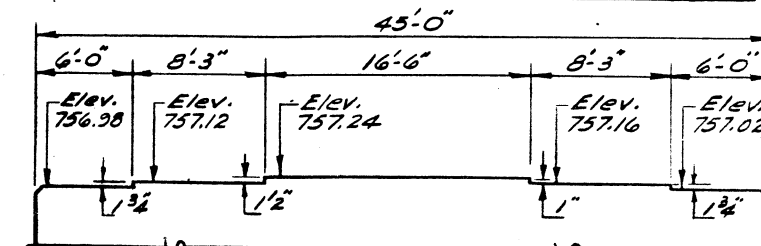


ELEVATION
(Looking East)

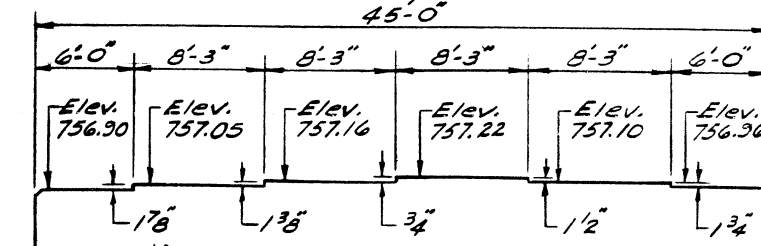
REINFORCEMENT



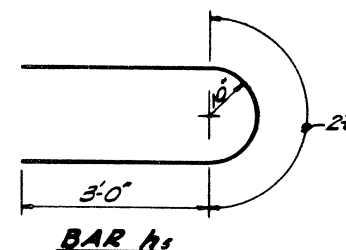
FOOTING PLAN



PIER #1
(Looking East)



PIER #2
SEAT ELEVATIONS
(Looking East)



BAR h1



BAR n1

TWO PIERS BILL OF MATERIAL

Bar	No	Size	Length	Shape
h1	48	#5	3'-5"	U
h2	96	#5	22'-0"	U
n1	184	#5	5'-4"	U
t	96	#5	5'-9"	U
vs	184	#5	10'-0"	U
w	28	#5	24'-6"	U
Class A Concrete				Cu. Yds. 120.0
Reinforcement Bars				Lbs. 6970
Concrete Piles				Lin. Ft. 1610
Test Piles Concrete				Ea. 1

DESIGNED Paul S. W.
CHECKED Dana McCormick
DRAWN Leona Heeren
CHECKED GM

SEPT. 24 1971
EXAMINED
PASSED
APPROVED

PIERS 1 & 2
SOUTH BOUND LANES
F.A. 1.55 SEC. 57-3B
MCLEAN COUNTY
STA. 322+95

STATE OF ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	57-38	McLean	144	56
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 17

13 SHEETS

Boring No.	Station	Offset	Ground Surface	Surface Water El.	Groundwater El. at Completion	Wash Boring	After 24 Hours	Qu (t/sf)	w (%)	Recovery
1	321+65	66' Lt. E	751.4		-5.5'		-5.0'			
			DARK BROWN SILTY CLAY							
			(MOIST, STIFF)	749.7	11	1.6	21	80		
			BROWN MOTTLED SILTY CLAY W/TR SAND (MOIST, MEDIUM)	-5	6	1.2	18	80		
			FREE WATER	744.4						
			GREY BROWN SILTY SAND (LOOSE)	-4				A.S.		
			GREY CLAY LOAM W/TR SAND & GRAVEL (MOIST, V. STIFF)	-10	21	2.9	17	100		
			GREY FINE TO MED. SAND (V. LOOSE)	-15	2			N.S.		
			(DENSE)	-15	37					
			GREY SILT (MOIST, STIFF)	-52	1.6	18	100			
			GREY FINE TO COARSE SILTY SAND (DENSE)	-20	50					

Boring No.	Station	Offset	Ground Surface	Surface Water El.	Groundwater El. at Completion	Wash Boring	After 24 Hours	Qu (t/sf)	w (%)	Recovery
2	322+35	47' Lt. E	751.6		-5.0'		-5.0'			
			DARK BROWN SILTY CLAY							
			(MOIST, STIFF)	-18	1.9			50		
			BROWN MOTTLED SILTY CLAY (MOIST, STIFF)	-5	7.4					
			BROWN MOTTLED SILTY CLAY (MOIST, STIFF)	-5	7.4					
			FREE WATER	744.1						
			GREY CLAY LOAM (LOOSE)	-10	32	5.7		100		
			(MOIST, HARD)	-10	32	5.7		100		
			(HARD)	-10	32	5.7		100		
			GREY FINE TO MED. SAND (MEDIUM)	-15	10			N.S.		
			GREY SILT (STIFF)	-15	10			N.S.		
			(V. STIFF)	-27	2.0			100		
			GREY FINE & SILTY SAND (V. DENSE)	-40	42			100		

Boring No.	Station	Offset	Ground Surface	Surface Water El.	Groundwater El. at Completion	Wash Boring	After 24 Hours	Qu (t/sf)	w (%)	Recovery
3	322+96	67' Lt. E	751.3		-5.5'		-5.0'			
			DARK BROWN SILTY CLAY							
			(MOIST, STIFF)	748.8	5	1.8	24	100		
			BROWN MOTTLED SILTY CLAY W/TR SAND (MOIST, STIFF)	-5	7	1.1	22	100		
			FREE WATER	746.8						
			BROWN SANDY CLAY LOAM (SOFT)	-5	6	0.4	21	50		
			BROWN SAND W/FINE GRAVEL (MEDIUM)	-10	37			19	5	
			GREY CLAY W/TR SAND & GRAVEL (MOIST, HARD)	-10	37			19	5	
			(MOIST, HARD)	-15	37			19	5	
			GREY FINE TO MEDIUM SAND	-15	37			19	5	
			GREY SILT	-33	2.9	19	100			
			(MOIST, V. STIFF)	-33	2.9	19	100			
			GREY FINE TO COARSE SAND (V. DENSE)	-40	54			100		

N - Standard Penetration Test
Blows per ft. to Drive 2" O.D.
Split Spoon Sampler 12" with
140 lb. Hammer falling 30".

N.S. - No Sample

Qu - Unconfined Compressive
Strength - t/sf
NP - Non Plastic
S.T. - Shelby Tube
w - Water Content - Percentage
of Oven Dry Weight - %

Type Failure
B - Bulge Failure
S - Shear Failure
E - Est. Value
A.S. - Auger Sample

Boring No.	Station	Offset	Ground Surface	Surface Water El.	Groundwater El. at Completion	Wash Boring	After 24 Hours	Qu (t/sf)	w (%)	Recovery
4	323+65	46' Lt. E	751.5		-5.5'		-5.0'			
			DARK BROWN SILTY CLAY							
			(MOIST, STIFF)	748.5	13	2.2	22	100		
			BROWN MOTTLED SILTY CLAY	-5	7.4					
			(MOIST, STIFF)	-5	7.4					
			GREY BROWN MOTTLED, SANDY SILTY CLAY	-2				A.S.		
			(MOIST, V. SOFT)	-2				A.S.		
			GREY CLAY (V. STIFF)	-10	30			N.S.		
			(MOIST, STIFF)	-10	30			N.S.		
			GREY FINE TO MEDIUM SAND	-15	10			N.S.		
			(MEDIUM)	-15	10			N.S.		
			GREY SILT	-37	2.9	22	100			
			(MOIST, MEDIUM)	-37	2.9	22	100			
			(MOIST, V. STIFF)	-20	19	1.9	21	100		
			GREY FINE SAND	-20	19	1.9	21	100		

DESIGNED	Richard S. W.
CHECKED	McLean
DRAWN	Leona Heeren
CHECKED	GM

EXAMINED	Sept. 24 1971
PASSED	W. G. Benner
APPROVED	Richard S. W.

BORING DATA
SOUTH BOUND LANES
EAL RT. 55 SEC. 57-3B
MCLEAN COUNTY
STATION 322+95

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S & L P. A. E. 55	67-38	McLean	144	57
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 18
19 SHEETS

Boring No. <u>6</u>	Elevation	N	Qu (t/sf)	w (%)	Recovery	Surface Water El. at Groundwater El. at Completion -4.0' (Wash Boring) After <u>24</u> Hours <u>-4.5'</u>	Elevation	N	Qu (t/sf)	w (%)	Recovery
Ground Surface	752.4	0					-20				
DARK BROWN SILTY CLAY (MOIST, STIFF)							731.4				
	750.4		B			GREY FINE TO CSE. SAND					
BROWN SILTY CLAY (MOIST, STIFF)	749.6	5	2.4	23	100	(DENSE)		44	-	-	100
BROWN MOTTLED SILTY CLAY (MOIST, STIFF)			B	2.0	23						
			B								
(MOIST, STIFF)	-5					(MEDIUM)	-25				
	746.4	12	1.9	25	100			23	-	-	100
GREY BROWN SILTY CLAY											
✓ FREE WATER											
(MEDIUM)	745.4										
BROWN SILTY SAND (LOOSE)		3	-	-	100		724.9	9	-	-	N.S.
GREY BROWN CLAY LOAM W/TR. (MOIST, STIFF)		3	2.0	17		GREY CLAY LOAM		30	-	-	
			B								
SAND & GRAVEL (MOIST, V. STIFF)	742.9	2	3.6	17							
BROWN FINE SAND (LOOSE)	-10	5	-		80	(MOIST, HARD)	-30		40	-	N.S.
	741.4										
GREY FINE & SILTY SAND											
(MEDIUM)		21	-	-	100	(HARD)			49	-	N.S.
	738.9										
GREY SILT											
(MEDIUM)	-15	11	-	-	N.S.	(HARD)	-35		81	-	N.S.
(MEDIUM)		15	-	-	N.S.	(HARD)			55	-	N.S.
	732.9										
GREY FINE & SILTY SAND (DENSE)	-20	41	-	-	100	(HARD)	-40		47	-	A.S.
						END OF BORING	711.9				

Boring No.	7	Elevation	N	Qu(t/sf)	w(%)	Recovery	Surface Water El.	Elevation	N	Qu(t/sf)	w(%)	Recovery
Station 323+54							Groundwater El. at Completion -3.0' (Wash Boring)					
Offset 46' Rt. @							After 24 Hours -4.0'					
Ground Surface	751.4	0					SAME MATERIAL	-20				
DARK BROWN SILTY CLAY (MOIST, STIFF)	750.4											
BROWN SILTY CLAY (MOIST, STIFF)	749.4	3	8									
BROWN MOTTLED SILTY CLAY W/TR. SAND (MOIST, STIFF)		10	1.94	20	80		(V. DENSE)	-58	-	-	-	80
				8				727.4		8		
FREE WATER V (MOIST, STIFF)	745.9	9	1.60	20	100		GREY CLAY LOAM W/TR. GRAVEL (DAMP, V. STIFF)	-25	31	2.4	11	80
BROWN SAND W/TR. GRAVEL (LOOSE)	744.4	3										
GREY CLAY LOAM W/TR. GRAVEL (MOIST, HARD)	742.4	35	-	-	A.S.		(V. STIFF)	-35	-	-	-	N.S.
GREY FINE TO MED. SAND (DENSE)	-10	35	-	-	100		(HARD)	-30	52	-	-	N.S.
(MEDIUM)		22	-	-	80		(HARD)	-48	-	-	-	N.S.
	737.9											
GREY SILT (STIFF)	-15	19	0.97	-	100		(HARD)	-35	54	-	-	N.S.
			8				END OF BORING	715.9				
(MOIST, V. STIFF)		32	2.0	18	100							
	732.9											
GREY FINE TO MED. SAND (DENSE)	-20	42	-	-	100			-40				

N - Standard Penetration Test	Qu - Unconfined Compressive	Type Failure
Blows per ft. to Drive 2" O.D.	Strength - t/sf	B - Bulge Failure
Split Spoon Sampler 12" with	NP - Non Plastic	S - Shear Failure
140 lb. Hammer falling 30".	S.T. - Shelby Tube	E - Est. Value
	w - Water Content - Percentage	
	of Oven Dry Weight - %	A.S. - Auger Sample
N. S. - No Sample		

DESIGNED *Prakash S. W*
CHECKED *Gene McCormick*
DRAWN *Leon Heeren*
CHECKED *GM* *P51.*

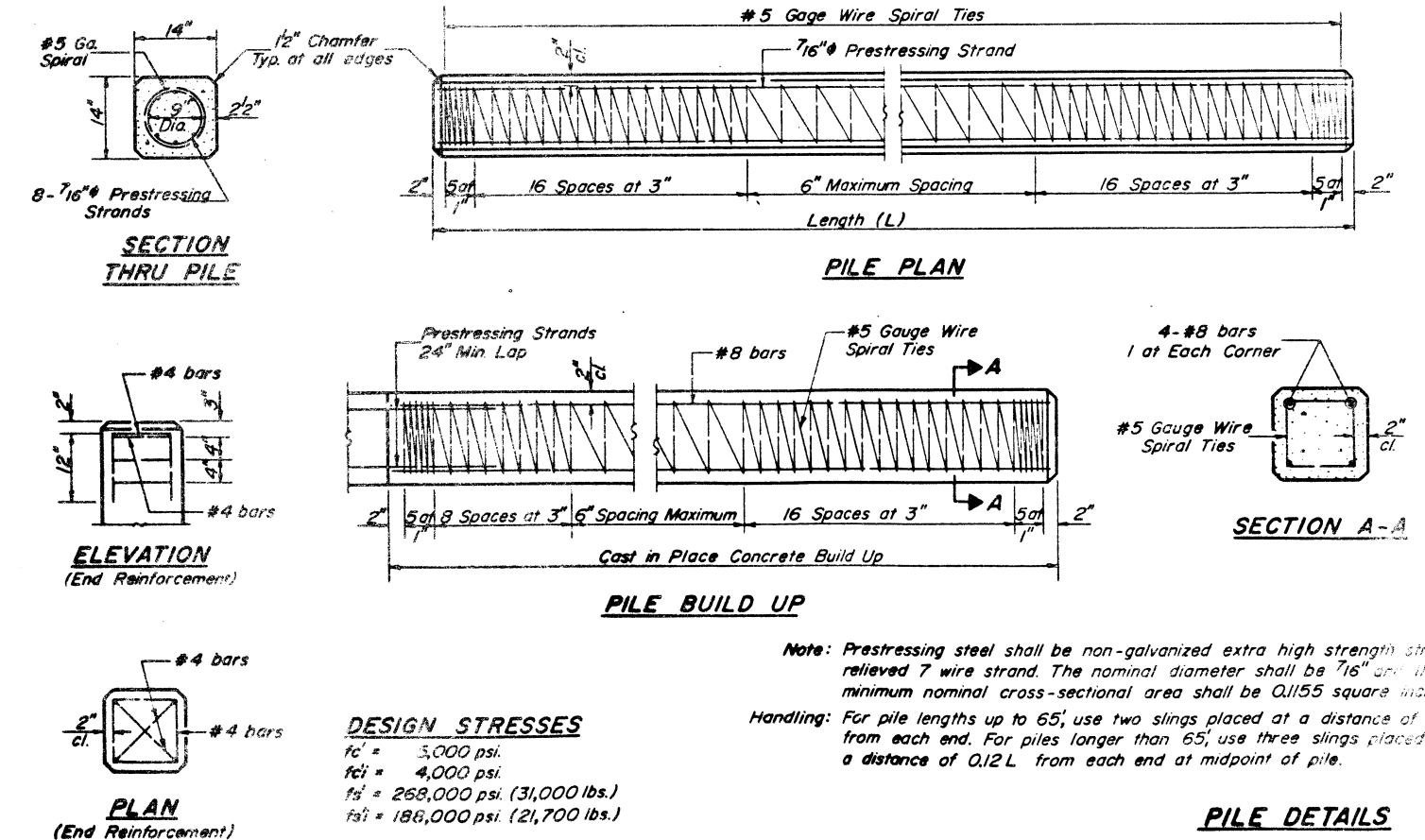
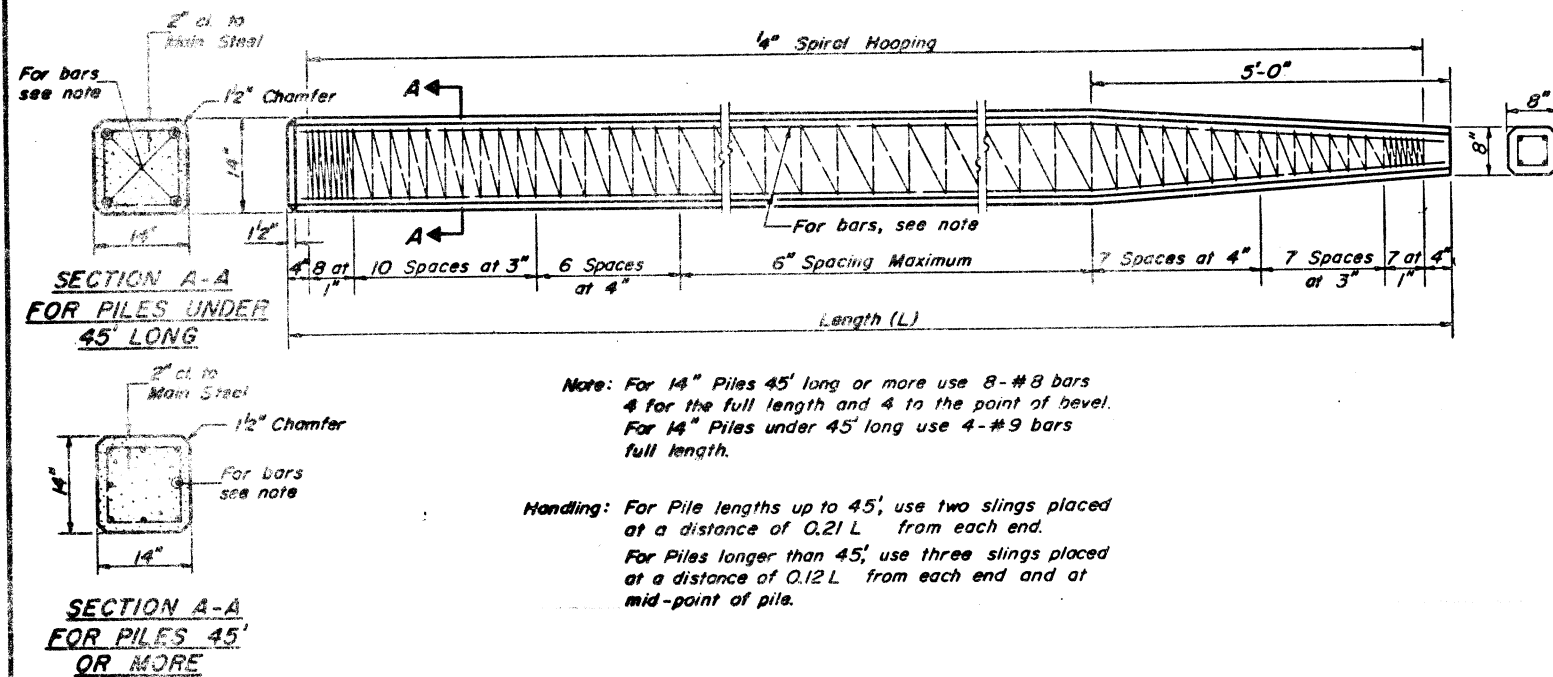
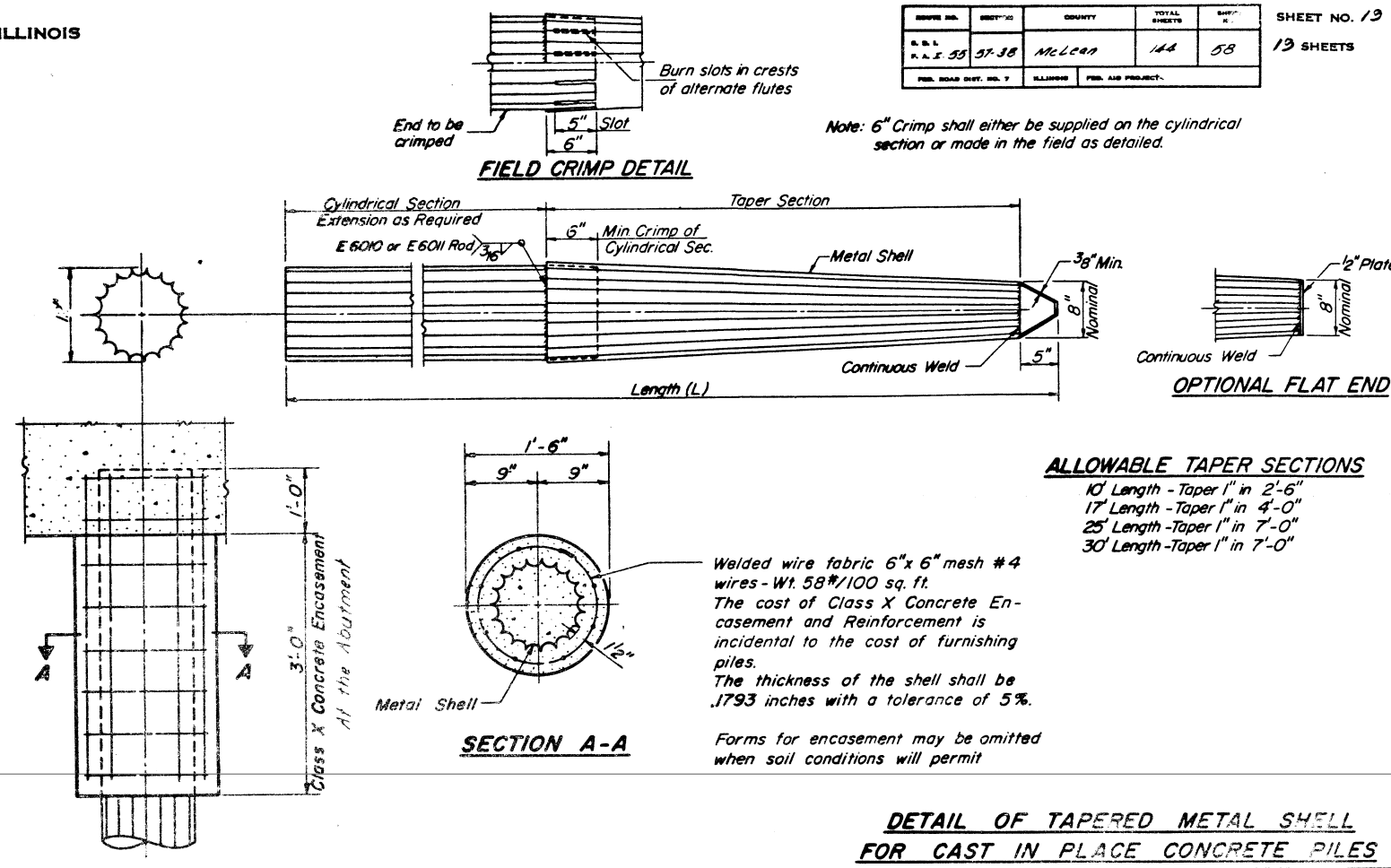
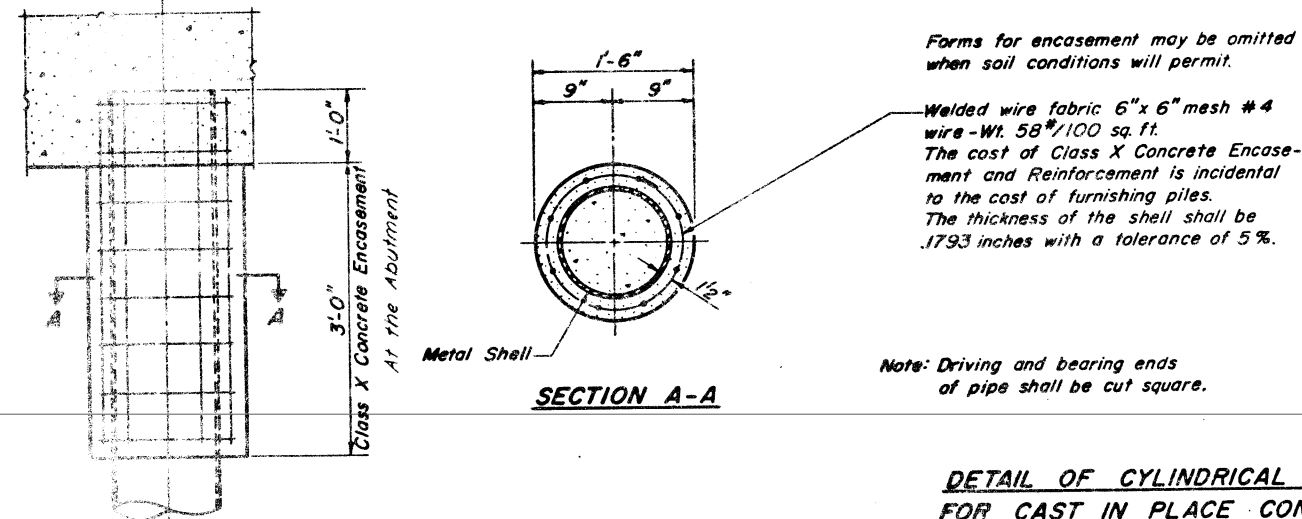
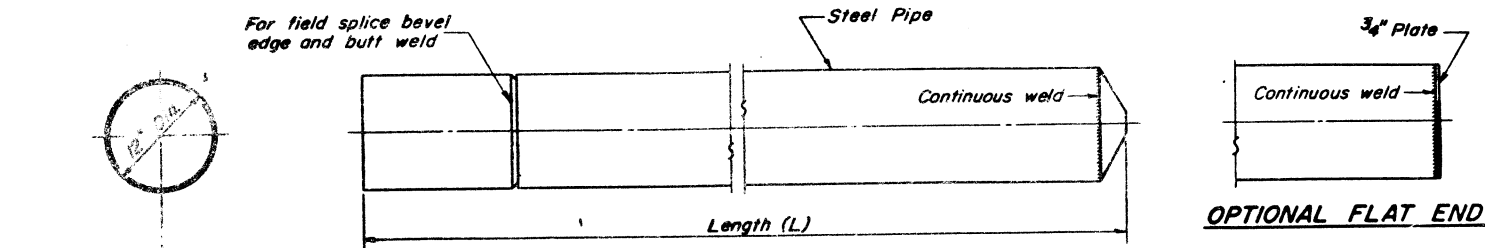
SEPT. 24 1971

EXAMINED *[Signature]*
ENGINEER IN CHARGE AND TRAFFIC STRUCTURE

PASSED *W.E. Beaman*
ENGINEER OF DESIGN

APPROVED *Richard G. Solterman*
CHIEF, HIGHWAYS, ENGINEERING

BORING DATA
NORTH BOUND LANES
EAL RT. 55 SEC. 57-3B
MCLEAN COUNTY
STATION 322+95



DESIGNED: [Signature]

CHECKED: [Signature]

DRAWN: [Signature]

CHECKED: [Signature]

EXAMINED: [Signature]

PASSED: [Signature]

APPROVED: [Signature]

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 55	57-3	MCLEAN	144	75
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT 55-3(7)				

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 2, 1971 THE SPECIAL PROVISIONS, THE MIMEOGRAPHED SPECIFICATIONS, AND THE STANDARDS.

THE WORK IN SECTION 57-3 CONSISTS OF THE CONSTRUCTION OF DUAL 24' WIDE CONTINUOUSLY RE-INFORCED P.C. CONCRETE PAVEMENT LANES, 9" THICK WITH A DEPRESSED MEDIAN; THE CONSTRUCTION OF FOUR INTERCHANGE RAMPS HAVING 16' WIDE STANDARD REINFORCED P.C. CONCRETE PAVEMENT 8" THICK, THE STUBS WHERE THEY CONNECT TO RELOC. C.H. 29 BEING EXCEPTED; THE COMPLETE WORK OF CONSTRUCTING DUAL 3 SPAN STEEL GIRDER BRIDGES OVER MONEY CREEK WITH A CHANNEL CHANGE; THE CONSTRUCTION OF A 10' x 4' R.C. BOX CULVERT; THE CONSTRUCTION OF VARIOUS DRAINAGE STRUCTURES; AND OTHER INCIDENTAL WORK NECESSARY TO COMPLETE THE SECTION.

STABILIZED SHOULDERS 9" SHALL BE CONSTRUCTED ALONG F.A.I. RTE. 55 AND THE INTERCHANGE RAMP TERMINALS ADJACENT TO THE 9" CRPCC PAVEMENT. FOR THE REMAINDER OF THE RAMPS, ADJACENT TO THE 8" SPRCC PAVEMENT, STABILIZED SHOULDERS 8" SHALL BE CONSTRUCTED.

THE CONTRACTOR SHALL FURNISH AND ERECT TWO SIGNS CONFORMING TO STANDARD 2153 AT THE LOCATION SHOWN ON SHEET 1, OR AS DIRECTED BY THE ENGINEER.

ALL STATIONING REFERS TO THE SURVEY CENTERLINE EXCEPT AS SHOWN ON PLANS

DATUM USED FOR SURVEY IS U.S.G.S.

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTILL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITY FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR THEIR MARKING OF THE EXACT LOCATION.

MINIMAL ADJUSTMENTS IN PAY LIMITS OF GUARDRAIL AS DICTATED BY STANDARD DRAWINGS WILL NOT BE MADE WHERE SUCH ADJUSTMENT INVOLVES LESS THAN 1 1/2' OF LENGTH PER CONTINUOUS INSTALLATION.

FOR THE PURPOSES OF THIS CONTRACT, SPRING SEEDING IS THAT DONE BETWEEN JANUARY 1 AND JUNE 30; FALL SEEDING IS THAT DONE BETWEEN JULY 1 AND DECEMBER 31. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN UNTILLABLE CONDITION. AREAS TO RECEIVE CLASS I SEEDING SHALL INCLUDE ALL SLOPES 4:1 AND FLATTER. SLOPES STEEPER THAN 4:1 RECEIVE CLASS III.

MULCHING SHALL BE IN ACCORDANCE WITH ARTICLE 643.03, METHOD 2.

IN SOME AREAS WITHIN THE LIMITS OF THIS CONTRACT, AN ANALYSIS OF THE SOILS CHARACTERISTICS INDICATED THE NEED FOR SUB-BASE GRANULAR MATERIAL, TYPE A, 6" THICK TO BE PROVIDED UNDER THE 4" STABILIZED SUB-BASE. LINES REPRESENTING THIS EXTRA THICKNESS HAVE BEEN SHOWN ON THE CROSS SECTIONS BUT THE END AREAS DO NOT REFLECT THIS EXTRA THICKNESS. THE EARTHWORK INVOLVED HAS BEEN CONSIDERED IN THE QUANTITIES, HOWEVER.

THE STATION LIMITS AND QUANTITIES FOR THE AREAS WHERE THIS EXTRA THICKNESS IS REQUIRED ARE AS FOLLOWS:

STATION 290+00 TO STATION 318+40	5,822 TONS
STATION 337+50 TO STATION 339+00	308 TONS
STATION 342+50 TO STATION 348+50	1,230 TONS

LEGEND

(AS SHOWN BELOW AND ON STD. 1686)
▲ INDICATES PERMANENT SURVEY MARKERS
■ INDICATES PROPOSED RIGHT OF WAY MARKERS
N.A.R. INDICATES NO AVAILABLE REFERENCES

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7	RIGHT OF WAY MARKERS, PERMANENT SURVEY MARKERS, SODDING, CLASS "X" CONCRETE AND FENCING SCHEDULES
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STANDARDS

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1976	REINFORCED CONCRETE HEADWALLS FOR 15" - 18" - 24" - 30" - 36" DIA. PIPE CULVERTS AT RIGHT ANGLES WITH ROADWAY
1981	REINFORCED CONCRETE HEADWALLS FOR 15" - 18" - 24" - 30" - 36" DIA. PIPE CULVERTS SKEWED WITH ROADWAY
1998	REINFORCED CONCRETE HEADWALLS FOR 42" - 48" - 54" - 60" DIA. PIPE CULVERTS SKEWED WITH ROADWAY
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2149-8	DELINEATORS
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STANDARDS, (CON'T)

2250	MEDIAN INLET FOR 24" R.C.P.
2253-4	MEDIAN GUARD RAIL AT STRUCTURE FOR DUAL HIGHWAY
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2263-2	REINFORCED CONCRETE PIPE TEE
2299-4	DESIGN OF TRAFFIC CONTROL DEVICES
2300	FLAGMAN TRAFFIC CONTROL SIGN
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2327-1	SUB-SURFACE DRAINS
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GENERAL NOTES, INDEX OF SHEETS AND LEGEND

TABULATION OF SURFACING ITEMS

LOCATION	STABILIZED SUB-BASE 4"	AGGREGATE SHOULDERS,TYPE A	STABILIZED SHOULDERS 8"	STABILIZED SHOULDERS 9"	AGGREGATE BASE COURSE ,TYPE A	BITUMINOUS MAT'L.S. PRIME COAT	BITUMINOUS MAT'L.S. COVER COAT	BITUMINOUS MAT'L.S. SEAL COAT	COVER COAT AGGREGATE	SEAL COAT AGGREGATE	6" P.C.C. PAVEMENT	PAVEMENT FABRIC	9" C.R. P.C.C. PAVEMENT	SUB-BASE GRANULAR MATERIAL TYPE A	AGGREGATE SURF COURSE, TYPE A
	SQ. YD.	TON	SQ. YD.	SQ. YD.	CU. YD.	GAL	GAL	GAL.	TON	TON	SQ. YD.	SQ. YD.	SQ. YD.	TONS	TON
197+00 TO 200+00 FAI 55	1,800	161		1,067									1,600		
200+00 TO 230+00 FAI 55	18,453	1,542		10,935									16,403		
230+00 TO 260+00 FAI 55	17,693	1,390		8,645									16,000		
260+00 TO 290+00 FAI 55	17,693	1,316		8,645									16,000		
290+00 TO 320+00 FAI 55	18,000	1,316		10,667									16,000	5,822	
320+00 TO 350+00 FAI 55	16,536	1,224		9,987									14,698	1,538	
350+00 TO 380+00 FAI 55	18,000	1,316		10,667									16,000		
380+00 TO 391+00 FAI 55	6,600	483		3,911									5,867		
RAMP A	4,718	920	1,595	916							2,620	2,620	1,264		
RAMP B	3,289	550	968	619							1,552	1,552	1,191		
RAMP C	4,718	920	1,595	916							2,620	2,620	1,264		
RAMP D	3,289	550	968	619							1,552	1,552	1,191		
ACCESS ROAD A															
FRONTAGE ROAD NO. 2					1,305	2,349	2,990	1,495	107	53					2,938
FRONTAGE ROAD NO. 5					321	722	910	455	33	16					
ENT. MAINT., STA. 389+49															66
TOTALS	130,789	11,688	5,126	67,594	1,626	3,071	3,900	1,950	140	69	8,344	8,344	107,478	7,360	3,004

BRIDGE APPROACH SLABS
STD. 2138, METHOD I

LOCATION	P.C.C. PAVEMENT		SUB-BASE GRANULAR MAT'L TYPE A
	16 1/2" - 12" 16 1/2" REINF. BARS SQ. YDS.	POUNDS	TONS
LT. STA. 321+43.20 - 321+69.58	70.5	3,875	18
LT. STA. 323+60.96 - 323+87.24	70.5	3,875	18
RT. STA. 322+02.76 - 322+29.14	70.5	3,875	18
RT. STA. 324+20.42 - 324+46.80	70.5	3,875	18
TOTALS	282	15,500	72

PIPE CULVERT TABULATION

LOCATION	PIPE CULVERTS								END SECTIONS				ELBOW	TEE	STORM SEWER						TRENCH BACK-FILL	INLETS							EXCELSIOR BLANKET		
	TYPE I		TYPE I R.C.C.P.		TYPE 2 R.C.C.P.			TYPE I CS AD EQV	AD EQV					R.C.	R.C. PIPE	TYPE I							STD								
	18"	36"	24"	36"	24"	36"	42"	42"	42"	18"	24"	36"	42"	24"	36P 24R	6"	8"	10"	12"	18"	CU. YD.	2243	2244	2245	2246	2248	2249	2250	EACH	SQ. YD.	
F.A.I. RTE. 55																															
199+00			4			200						2			1								1								27
209+00			62																				1								16
216+00			2			230						2			1													1			20
225+00			86																					1							15
242+00			74																								1				13
252+25				216										2	2								2								15
268+75			94																						1						10
284+00			4			206						2			1									1							55
294+00						100					1											1									40
306+00			98								1											1									40
319+00			2			128					1			1															1		40
LT. 321+30																	27				2										
RT. 321+90																	27				2										
327+00			4			124					1			1															1		40
341+00			4	172											1								1			2					15
354+25			8																			2									45
364+00			74																				1						1		40
384+00			92																						1			1			37
RAMP A 124+00							80					2																			15
RAMP B 287+75						90																									30
RAMP C 366+50						90																									30
RAMP D 451+00						106						2																			14
ACC. RD. A 16+00		38																													
ACC. RD. A 40+00	34									2																					
FR. RD. 2 19+30								54	2																						
FIELD TILE REPLACEMENT & WATER LINE SLEEVE (ESTIMATE)																660		380	2,934	400	61										
	34	38	608	388	532	742	80	54	2	2	4	10	2	4	6	714	150	380	2,934	400	165	2	10	2	1	2	6	3		557	

* INCLUDES 100 CU YDS. FOR CONTINGENCY
① CONTINGENCY ITEM
Δ Non-Participating

GUARD RAIL TABULATION

LOCATION	SINGLE RAIL	DOUBLE RAIL	TERMINAL SECTION
	LIN. FT.	LIN. FT.	EACH
RT. STA. 257+75 - 259+75	200		2
LT. STA. 258+97 - 260+97	200		2
RT. STA. 320+34.20 - 322+09.20	150	25	
RT. STA. 321+30.47 - 322+30.47	75		1
LT. STA. 323+59.53 - 324+59.53	75		1
LT. STA. 323+80.80 - 325+55.80	150	25	
TOTALS	850	50	6

EARTHWORK SUMMARY												
STATION TO STATION	THEORETICAL		TOPSOIL SOURCES		TOPSOIL REQUIRED		ADJUSTED		CHANNEL EXCAVATION		BORROW	TOPSOIL
	CUT	FILL	IN CUT (-)	IN FILL (+)	IN CUT (+)	IN FILL (-)	CUT	FILL	CUT	FILL	EXCAVATION	PLACEMENT
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	SQ. YD.
BALANCE NO. 1												
197+00 TO 245+54	9,819	119,432			1,579	5,884	11,398	113,548			130,537	67,167
ACCESS ROAD "A"	9,000	8,483			1,147	592	10,147	7,891			283	15,651
TOTAL BALANCE NO. 1	18,819	127,915			2,726	6,476	21,545	121,439			130,254	82,818
BALANCE NO. 2												
245+54 TO 314+83	126,258	64,491	23,775	516	9,375	4,627	111,858	60,380			36,383	126,018
FRONTAGE ROAD NO. 2	2,208	7,372			460	747	2,668	6,625			5,613	10,863
FRONTAGE ROAD NO. 5	1,026	228					1,026	228			714	
RAMP A	11,854	29,795	2,702		1,145	1,270	10,297	28,525			25,359	21,735
RAMP B	2,096	13,709	330		462	693	2,228	13,016			14,042	10,395
RAMP C	3,388	23,003	332		745	1,219	3,801	21,784			23,429	17,676
RAMP D	3,488	10,972	953		787	613	3,322	10,359			9,627	12,600
RAMP A INFIELD GRADING	15,234		2,983		1,269		13,520				13,520	11,421
RAMP B INFIELD GRADING	2,435	157	1,419		404		1,420	157			1,224	3,636
RAMP C INFIELD GRADING	8,156	348	4,466		1,295	114	4,985	234			4,692	12,681
RAMP D INFIELD GRADING	6,102		2,360		706		4,528				4,528	7,074
INFIELD GRADING BETWEEN C.W. AND SHEAR LINE	2,553	35	1,090		407	12	1,870	23			1,841	3,771
EXTRA SUB-BASE PLACEMENT	2,840						2,840				2,840	
TOTAL BALANCE NO. 2	187,638	150,110	40,410	516	17,135	9,295	164,363	141,331			12,301	237,870
BALANCE NO. 3												
314+83 TO 323+00	29,405	23,525		30	1,146	711	30,551	22,844			1,996	16,713
TOTAL BALANCE NO. 3	29,405	23,525		30	1,146	711	30,551	22,844			1,996	16,713
BALANCE NO. 4												
323+00 TO 333+68	37,391	32,092	3,198	46	1,538	900	35,731	31,238			3,517	21,942
HONEY CREEK CHANNEL CHANGE									13,054		13,054	
HONEY CREEK FILL EXISTING CHANNEL										8,264	10,330	
TOTAL BALANCE NO. 4	37,391	32,092	3,198	46	1,538	900	35,731	31,238	13,054	8,264	593	21,942
BALANCE NO. 5												
333+68 TO 357+21	39,426	32,141	5,602	366	2,862	1,604	36,686	30,903			1,943	40,194
EXTRA SUB-BASE PLACEMENT	750						750				750	
TOTAL BALANCE NO. 5	40,176	32,141	5,602	366	2,862	1,604	37,436	30,903			1,193	40,194
BALANCE NO. 6												
357+21 TO 391+00	15,173	61,411	175	610	2,741	3,819	17,739	58,202			55,014	59,040
TOTAL BALANCE NO. 6	15,173	61,411	175	610	2,741	3,819	17,739	58,202			55,014	59,040
GRAND TOTALS	328,602	427,194	49,385	1,568	28,148	22,805	307,365	405,957	13,054	8,264	197,359	458,577

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 55	57-3	MC LEAN	144	11
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT I-55-S()	

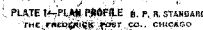
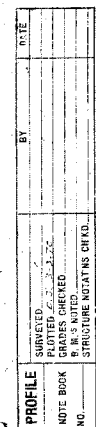
DELINEATOR TABULATION	
LOCATION	DELINEATORS EACH
STA. 200+00 TO STA. 230+00	36
STA. 230+00 TO STA. 260+00	24
STA. 260+00 TO STA. 290+00	24
STA. 290+00 TO STA. 320+00	34
STA. 320+00 TO STA. 350+00	26
STA. 350+00 TO STA. 380+00	30
STA. 380+00 TO STA. 391+00	10
RAMP A	23
RAMP B	11
RAMP C	22
RAMP D	11
TOTAL	251

TREE REMOVAL SUMMARY		
LOCATION	6 TO 15 IN. DIA.	OVER 15 IN. DIA.
	IN. DIA.	IN. DIA.
STA. 200+00 TO STA. 230+00		282
STA. 230+00 TO STA. 260+00		375
STA. 290+00 TO STA. 320+00	48	1,050
STA. 320+00 TO STA. 350+00	130	702
TOTAL	178	2,409

LUG SCHEDULE (IN ACCORDANCE WITH STD'S. 2224 & 2261)	
LOCATION	LUG SYSTEM COMPLETE EACH
SOUTHBOUND LANE:	
LT. STA. 320+89.20 TO STA. 321+43.20	1
LT. STA. 323+87.24 TO STA. 324+41.24	1
NORTHBOUND LANE:	
RT. STA. 321+48.76 TO STA. 322+02.76	1
RT. STA. 324+46.80 TO STA. 325+00.80	1
TOTAL	4

THE FOLLOWING RATES OF APPLICATION AND UNIT WEIGHTS INDICATE THE BASIS FOR ESTIMATING QUANTITIES.

EARTH SHRINKAGE FACTOR	25%
TOPSOIL PLACEMENT	4" THICKNESS
COARSE AGGREGATE	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.50 GALLON/SQ. YD.
BITUMINOUS MATERIALS (COVER & SEAL COATS)	0.35 GALLON/SQ. YD.
COVER COAT AGGREGATE	25 LBS/SQ. YD. - 2 APPLICATIONS
SEAL COAT AGGREGATE	25 LBS/SQ. YD. - 1 APPLICATION
FERTILIZER NUTRIENTS	100 LBS/ACRE/NUTRIENT
AGRICULTURAL GRAIND LIMESTONE	3 TONS/ACRE
MULCH	2 TONS/ACRE
EMULSIFIED ASPHALT	100 GALLON/TON OF MULCH
SUPPLEMENTAL WATERING	3 GALLON/SQ. YD. - 2 APPLICATION

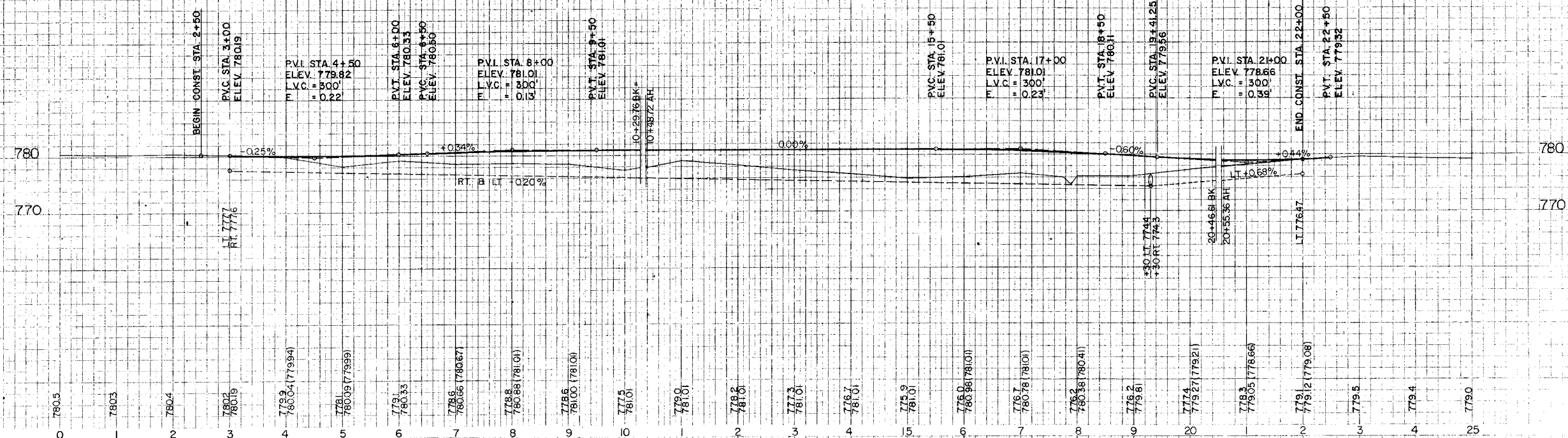


DATE	
BY	
FINAL SURVEY	
NOTE NO.	

NO.	
DATE	
BY	
FINAL SURVEY	
NOTE NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 55	57-3	MC LEAN	144	33
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT I-55-5()				

FRONTAGE ROAD NO. 2



MONEY CREEK CHANNEL CHANGE

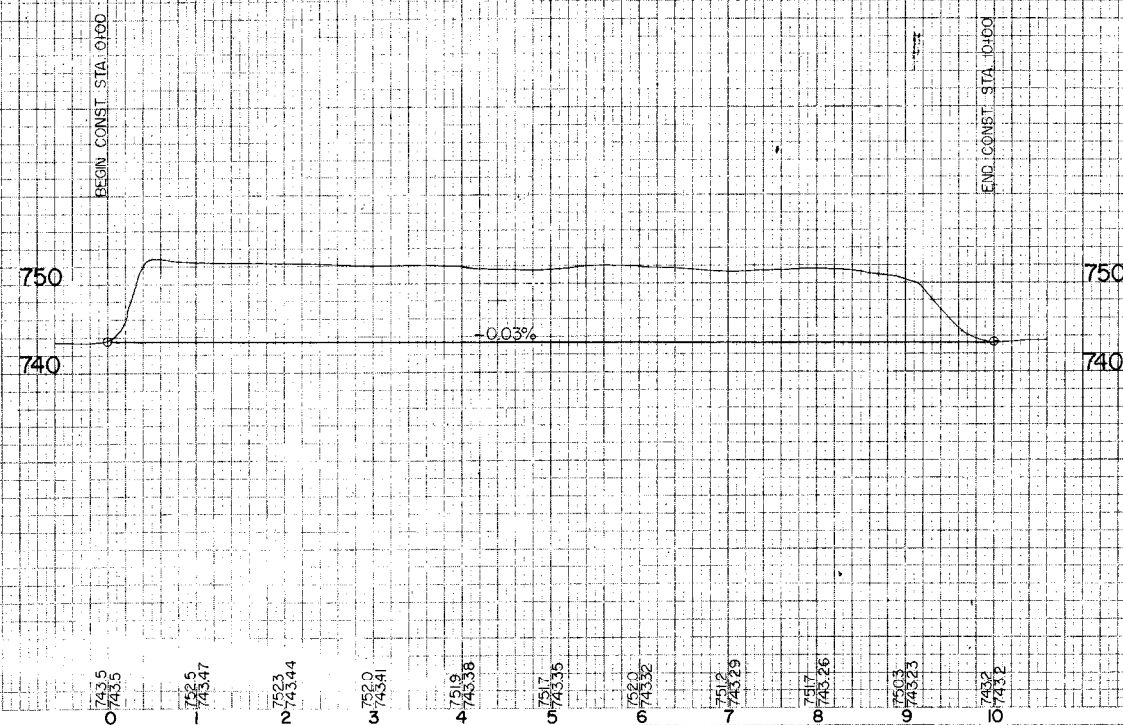
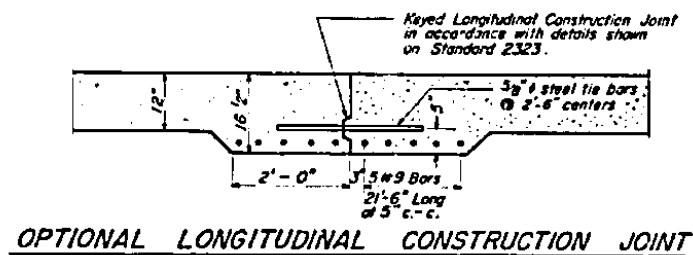
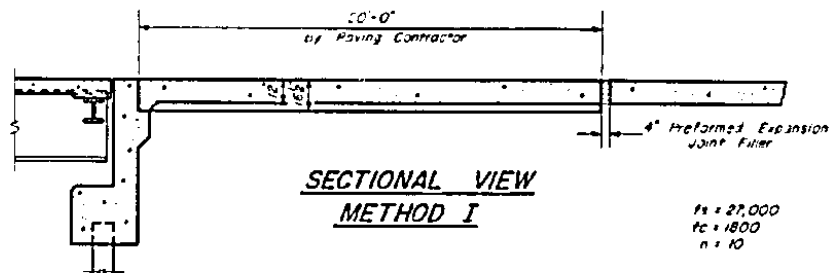


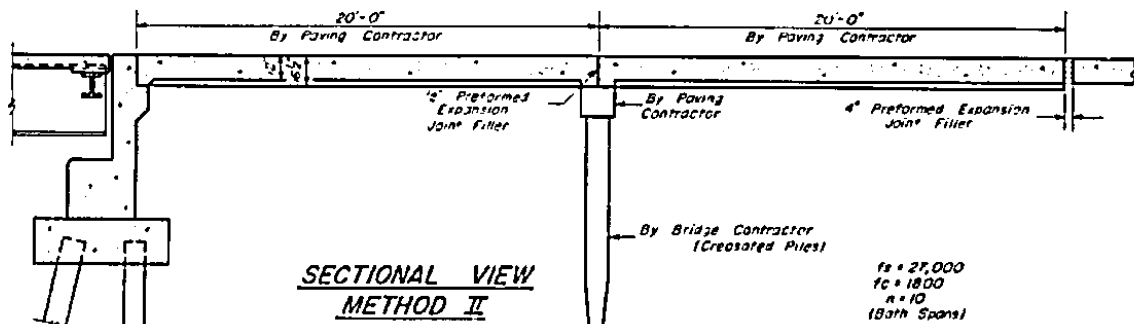
PLATE 3-CROSS SECTION OF R.R. & R.R.
MADE AND PRINTED BY
CHARLES DEBORG COMPANY

PROFILE-FRONTAGE ROAD NO. 2 & MONEY CREEK CHANNEL CHANGE

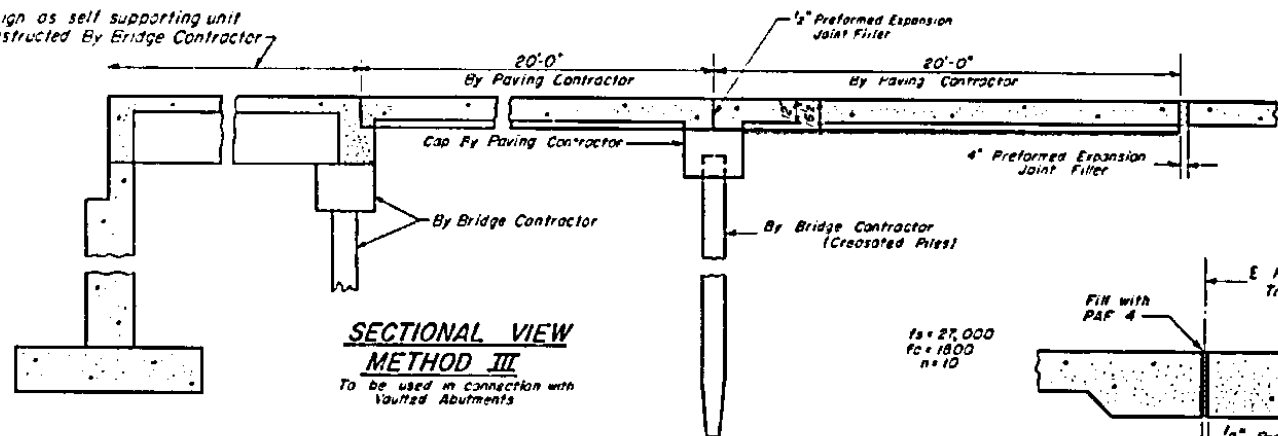
DETAILS OF BRIDGE APPROACHES FOR FEDERAL AID INTERSTATE ROUTES



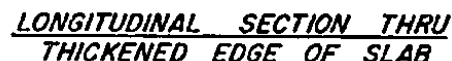
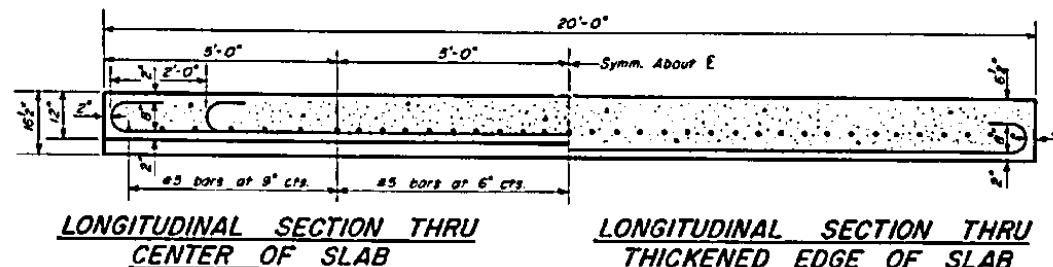
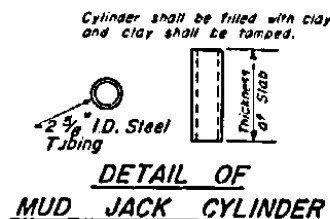
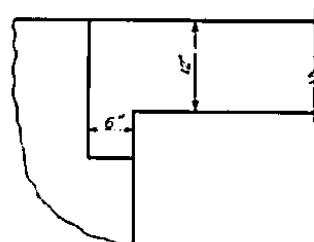
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joint shall be located at the edge of Traffic Lane.



Design as self supporting unit Constructed By Bridge Contractor



Note: Details of Approach Slab By Paving Contractor same as shown for Method II.



SECTIONAL VIEW OF CONCRETE SLAB AND CAP

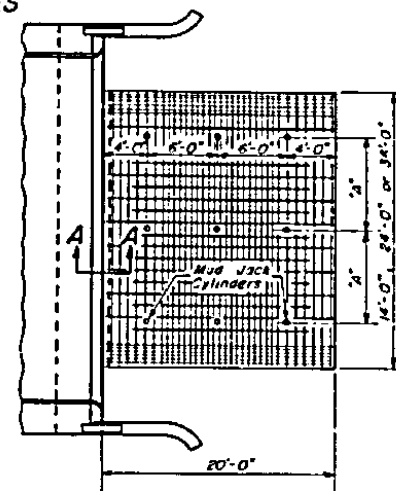
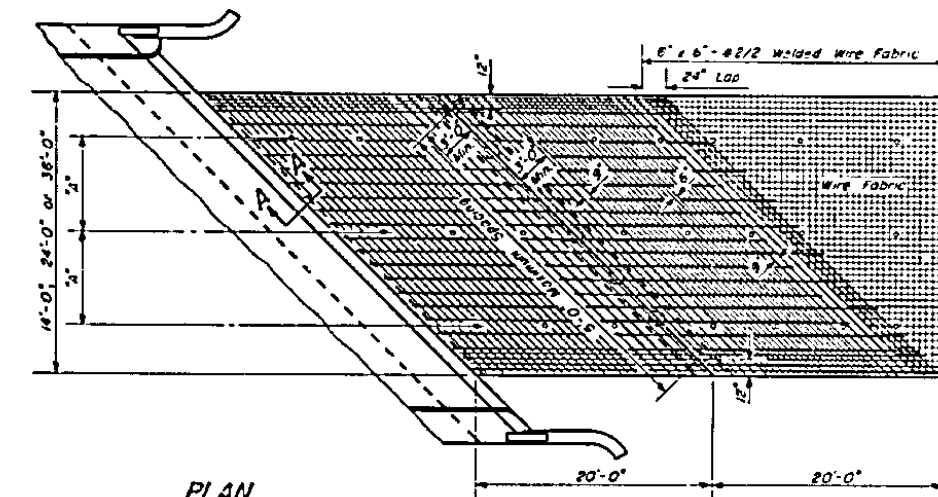


TABLE OF "A" DIMENSIONS

Width of Approach Slab	Dimension "A" (Spacing of Mud Jack Cylinders)
14'	6'-0"
24'	8'-0"
36'	E Spacing at 8'-0"

Expanded Metal weighing not less than 75 Lbs per 100 sq ft or a welded bar mat weighing not less than 75 Lbs. per 100 sq ft having members of equal size in both directions and spaced not over 8" apart may be used instead of the #2 Welded Wire Fabric, 6" x 6", provided the expanded metal or bar mat is furnished at no additional cost to the State.



GENERAL NOTES

The slab or slabs will be paid for at the contract unit price for PORTLAND CEMENT CONCRETE PAVEMENT (16" x 12" x 16" x 12"). The concrete cap will be paid for at the contract unit price for CLASS X CONCRETE.

Reinforcement Bars will be paid for at the contract unit price for REINFORCEMENT BARS, except as noted.

The Welded Wire Fabric, Mud Jack Cylinders and Preformed Expansion Joint Filler shall be included in the unit price bid for PORTLAND CEMENT CONCRETE PAVEMENT (16" x 12" x 16" x 12").

Preformed Expansion Joint Filler shall conform to Section 715 of the Standard Specifications.

Width of Bridge Approach Slab pour shall be determined before the reinforcement bars are fabricated.

The Contractor shall, after completion of the finishing operations, mark the location of the Mud Jack Cylinders.

The transition for gutter shall be made in 100 feet and will be paid for as CONCRETE GUTTER, of the type specified.

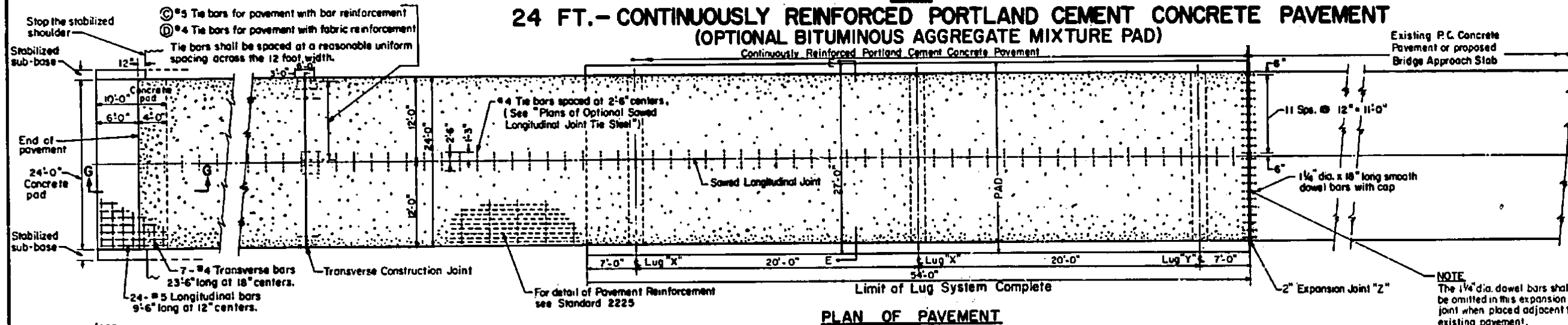
The transition for curb and gutter shall be made in 20 feet and will be paid for as COMBINATION CURB and GUTTER, of the type specified.

Tie bars in accordance with details for Bulkhead Longitudinal Construction Joint shown on Standard 2323.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	ISSUED 12-18-58
PASSED Oct. 15 1963 ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	REVISIONS WAS 2-2-59 WF 5-10-67 CET 10-22-59 WF 7-15-67 WAS 12-9-59 GR 8-1-68 W.F. 10-1-63 JKE 10-15-65 KHW 7-9-64 W.F. 10-29-64
APPROVED Oct. 15 1969 ENGINEER OF DESIGN	

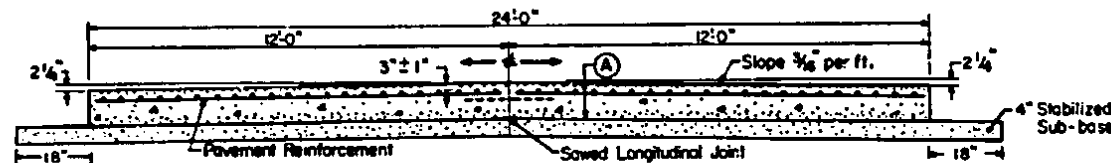
STANDARD DESIGN

24 FT.-CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT (OPTIONAL BITUMINOUS AGGREGATE MIXTURE PAD)

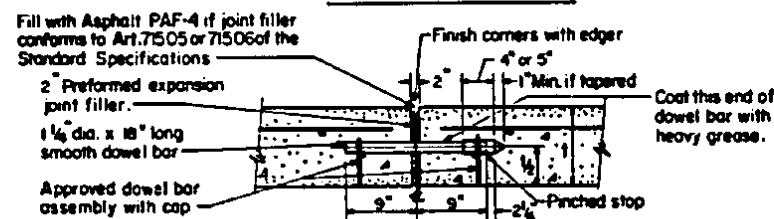


NOTE:
When a slip form paver not equipped with approved automatic grade controls is to be used, it shall operate on the BAM pad which shall be extended so that the overall width is 6 inches greater than the width from outside to outside of the slip form paver's tracks. Such extended width will not be measured for payment but shall be considered incidental to the contract.

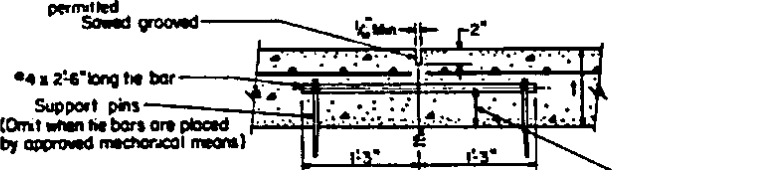
If the slip form paver is equipped with approved automatic grade controls that control the four corner supports of the paver and the Contractor elects to use these controls, the BAM pad shall be made wider than the design pavement width by not less than 12 inches nor more than necessary for the type of equipment used. An appropriate deduction will be made in quantity of BAM pad when the width is less than 3 feet wider than the design pavement width.



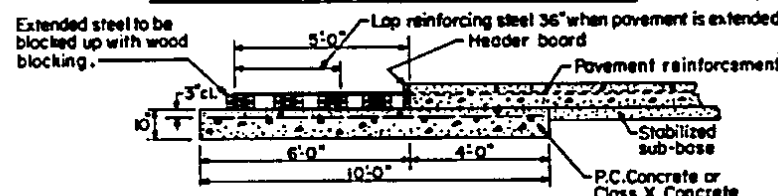
CROSS SECTION E-E



DETAIL OF EXPANSION JOINT

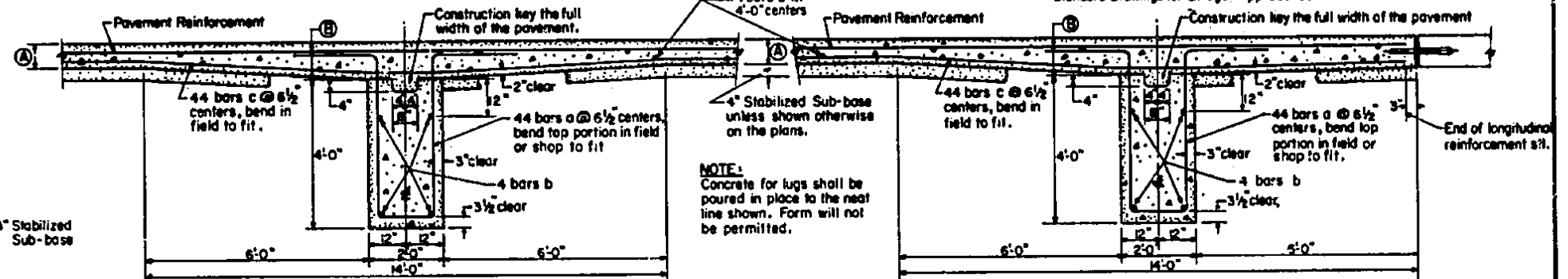


DETAIL OF SAWED LONGITUDINAL JOINT



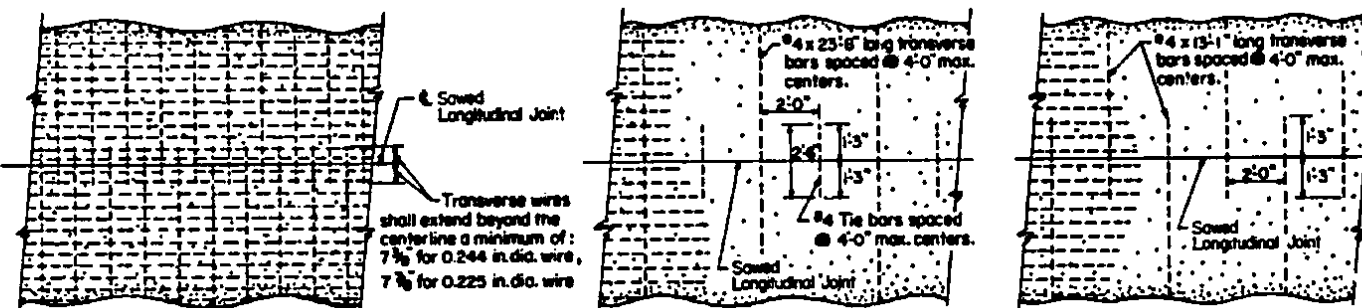
SECTION G-G

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ISSUED 1-4-63	W.F.	3-10-69	
		REVISIONS	J.K.P.	10-15-69	
PASSED	JUNE 28 1972	W.F.	4-1-65	W.F.	3-16-70
Engineer of Road Plans and Contracts		W.F.	6-25-65	W.F.	6-26-72
APPROVED	JUNE 28 1972	W.F.	4-20-66		
		G.R.	8-1-68		
		G.R.	1-15-69		



SECTION AT LUG 'X'

SECTION AT LUG 'Y'

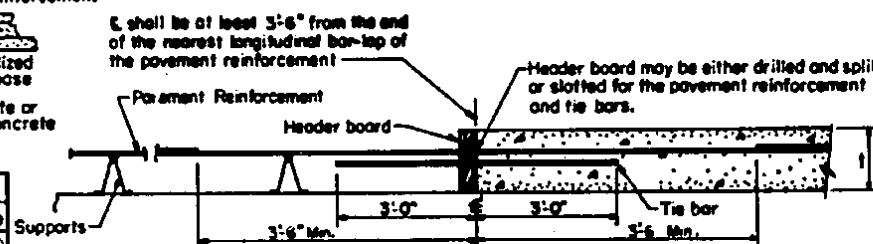


ASSEMBLY I
FABRIC REINFORCEMENT

ASSEMBLY II
BAR REINFORCEMENT

ASSEMBLY III

PLANS OF OPTIONAL SAWED LONGITUDINAL JOINT TIE STEEL



DETAIL OF TRANSVERSE CONSTRUCTION JOINT

BILL OF MATERIAL FOR LUG SYSTEM
(Excluding pavement concrete and pavement reinforcement)

Bar	No.	Size	Length	Shape
a	132	#7	14'-0"	
b	12	#5	24'-9"	
c	132	#5	20'-0"	
d	28	#4	11'-9"	
Class X Concrete, Cu.Yds. 2085				
Reinforcing Bars, Lbs. 7062				
BAM Pad, Sq.Yds. 146				

Part	(A)	(B)	(C)	(D)
8"	12"	8	12	
9"	14"	9	14	

GENERAL NOTES

The 54 feet as shown above of Bituminous Aggregate Mixture Pad, between and adjacent to the lugs will be considered incidental to the Lug System.

Expansion joint shall be considered incidental to the cost of Continuously Reinforced Concrete Pavement.

Details shown in Section G-G shall apply only at the end of the construction section; the 10' reinforced concrete pad, header board, wood blocking, and the 5 ft. of extended pavement reinforcement shall be considered incidental to the cost of the CRC Pavement.

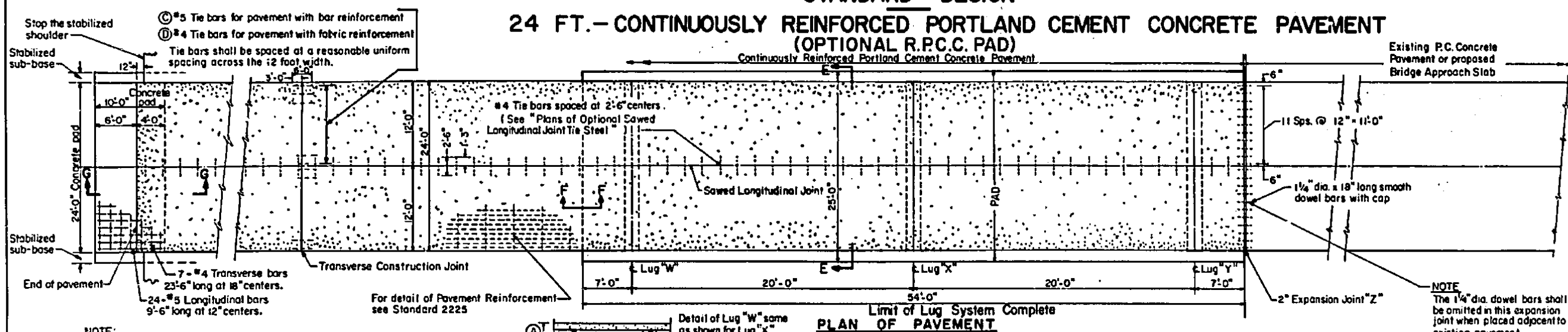
Lug and anchorages shall be constructed at the locations shown except that when the distance between two expansion joints marked "Z" is less than 1500 ft. the anchorage shall be as shown on the detailed construction plans.

STANDARD 2224-9
(Full Size)

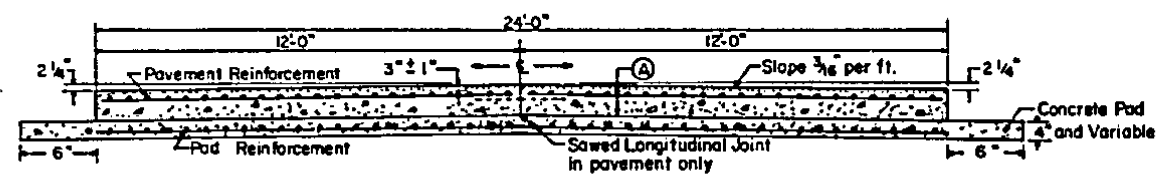
C-24.03 e

STANDARD DESIGN

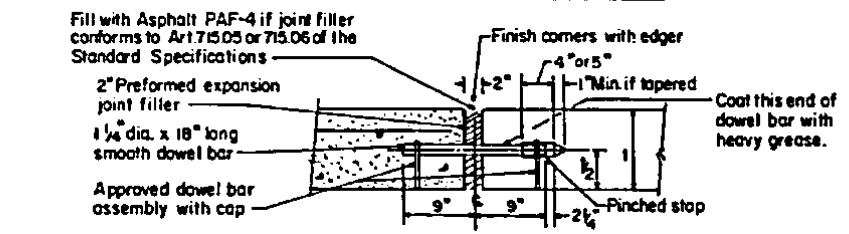
24 FT.-CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT (OPTIONAL R.P.C.C. PAD)



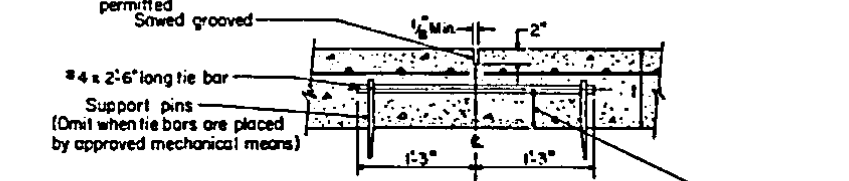
NOTE:
When a slip form paver not equipped with approved automatic grade controls is to be used, it shall operate on the concrete pad which shall be extended so that the overall width is 6 inches greater than the width from outside to outside of the slip form paver's tracks.
If the slip form paver is equipped with approved automatic grade controls that control the four corner supports of the paver and the Contractor elects to use these controls, the concrete pad shall be made wider than the design pavement width by not less than 12 inches nor more than necessary for the type of equipment used.
When it is required that the concrete pad be extended beyond the width shown in Section E-E, such extended width will not be measured for payment but shall be considered incidental to the contract.



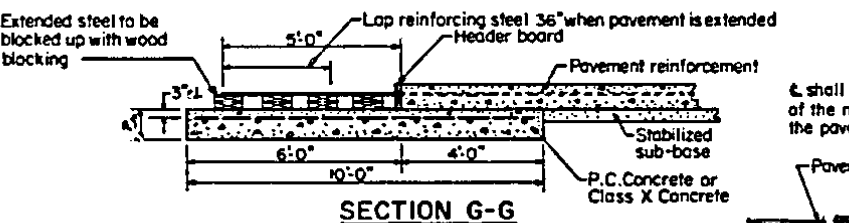
CROSS SECTION E-E



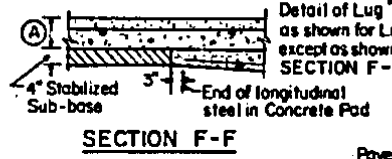
DETAIL OF EXPANSION JOINT



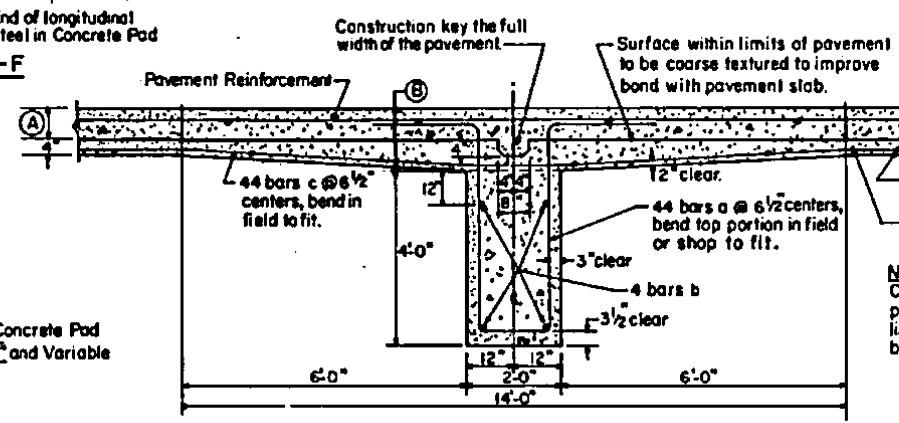
DETAIL OF SAWED LONGITUDINAL JOINT



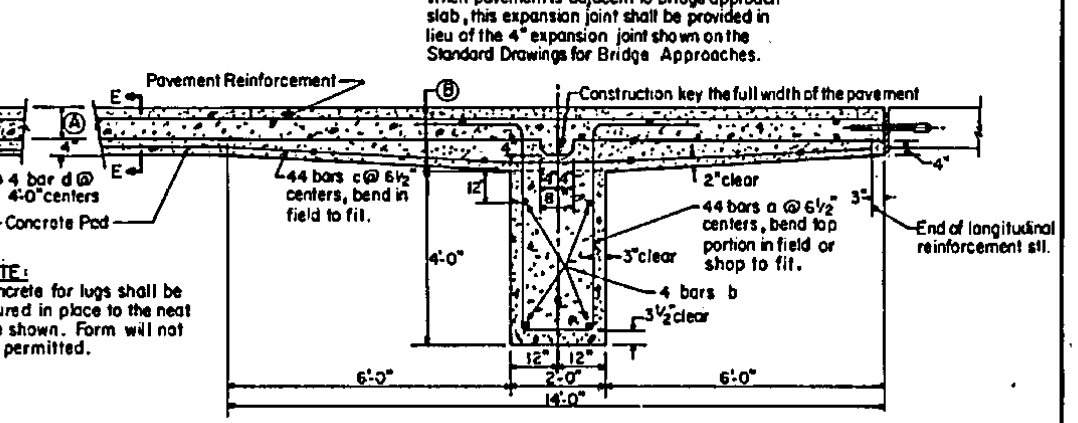
SECTION G-G



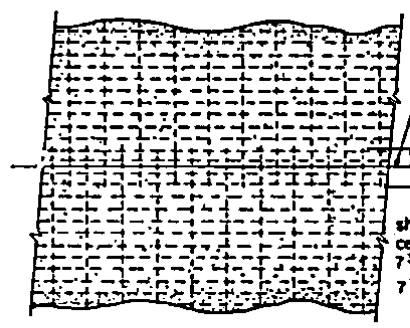
SECTION F-F



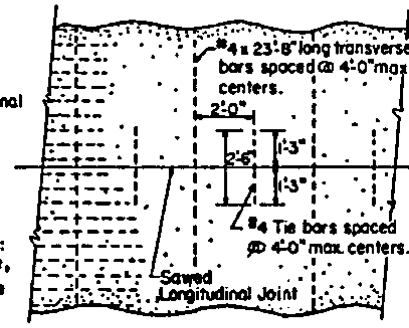
SECTION AT LUG 'X'



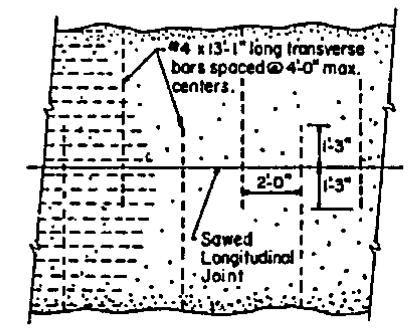
SECTION AT LUG 'Y'



ASSEMBLY I FABRIC REINFORCEMENT

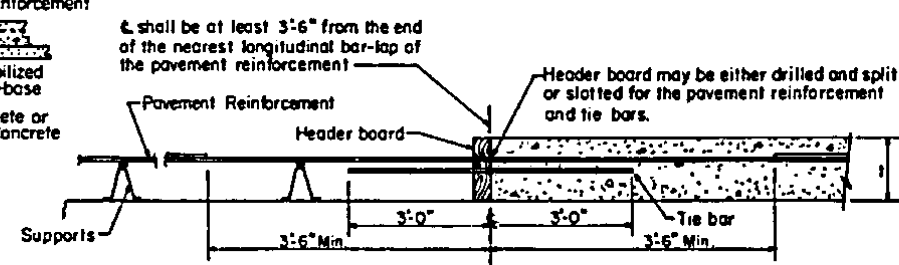


ASSEMBLY II BAR REINFORCEMENT



ASSEMBLY III

PLANS OF OPTIONAL SAWED LONGITUDINAL JOINT TIE STEEL



DETAIL OF TRANSVERSE CONSTRUCTION JOINT

BILL OF MATERIAL FOR LUG SYSTEM (Excluding pavement concrete and pavement reinforcement)

Bar	No.	Size	Length	Shape
a	132	#7	14'-0"	
b	12	#5	24'-9"	
c	132	#5	20'-0"	
d	14	#4	23'-6"	

Class X Concrete, Cu.Yds 44.79
Reinforcing Bars, Lbs. 7061

Pos. in Lug	(A)	(B)	(C)	(D)
8"	16"	8	12	
9"	17"	9	14	

GENERAL NOTES

Lug end anchorages shall be constructed at the locations shown except that when the distance between two expansion joints marked "Z" is less than 1500 ft. the anchorage shall be as shown on the detailed construction plans.

Expansion joint shall be considered incidental to the cost of Continuously Reinforced Concrete Pavement.

Details shown in Section G-G shall apply only at the end of the construction section; the 10" reinforced concrete pad, header board, wood blocking, and the 5 ft. of extended pavement reinforcement will be considered incidental to the cost of the C.R.C. Pavement.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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W.F. 3-10-69
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W.F. 3-18-70
W.F. 6-26-72

Engineer of Road Plans and Contracts
Engineer of Design