

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	1
FEDERAL AID PROJECT		ILLINOIS	CONTRACT NO.	

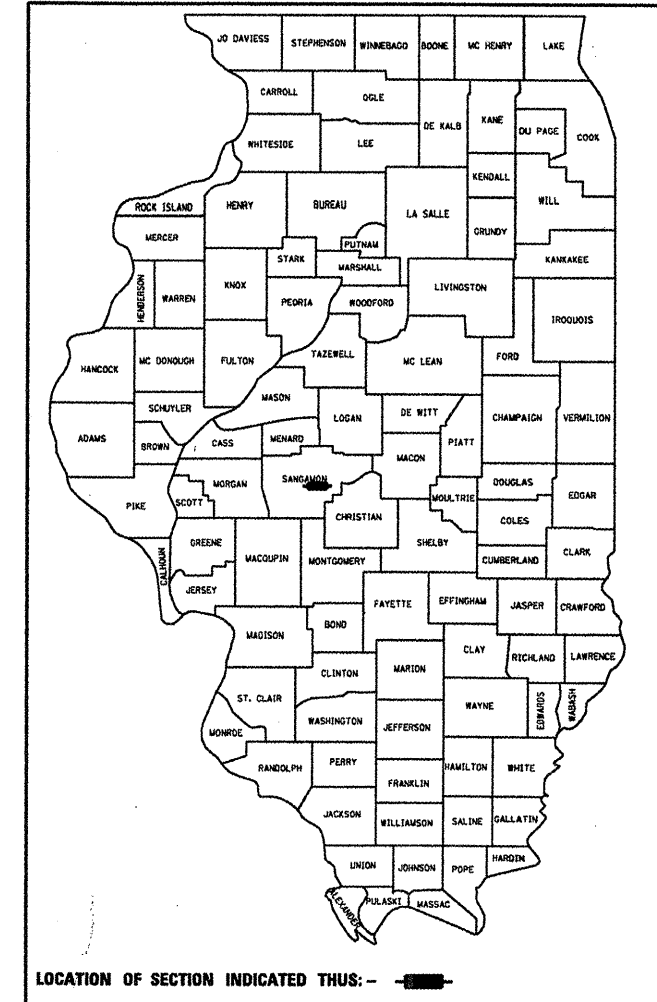
93546

INDEX OF SHEETS

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2.	SUMMARY OF QUANTITIES & GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.-5.	TRAFFIC CONTROL
6.-7.	GENERAL PLAN AND ELEVATION
8.-14.	DECK REPAIR DETAILS
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29.	DRAIN DETAILS
30.	EXPANSION JOINT DETAILS
31.-33.	RAILING DETAILS
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PLANS FOR PROPOSED
SURFACE TRANSPORTATION
ENHANCEMENT PROGRAM
VACHEL LINDSAY BRIDGE RENOVATION

FAU 8003 (LONG BAY DRIVE)
OVER LAKE SPRINGFIELD
SECTION 09-00469-00-BR
PROJECT NO. TE-00D6(101)
CITY OF SPRINGFIELD, ILLINOIS
JOB NUMBER C-96-211-11



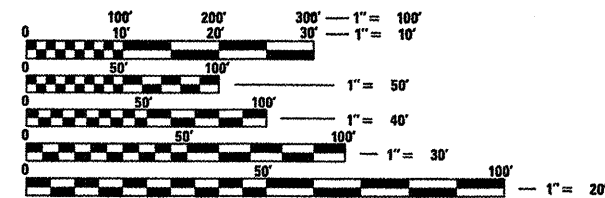
LIST OF ILLINOIS DOT HIGHWAY STANDARDS

701901-01 TRAFFIC CONTROL DEVICES
BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES.
FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS.

UTILITY CONTACTS:

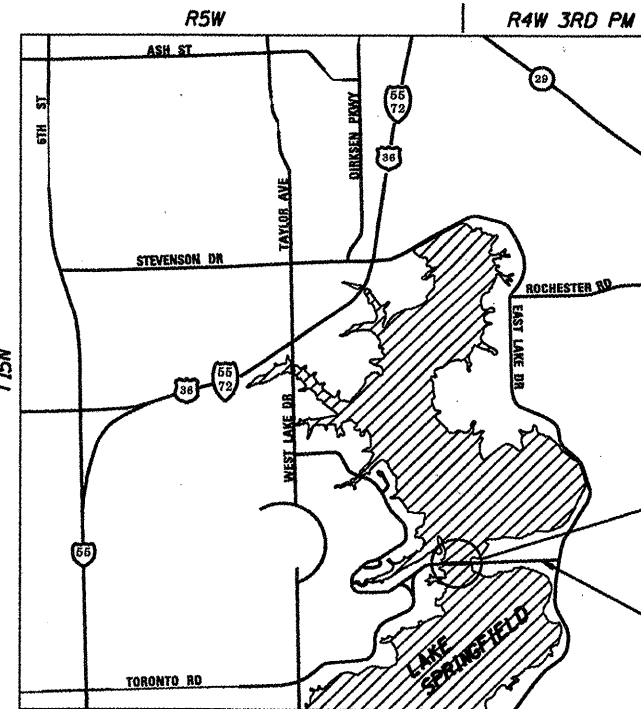
AT&T
ATTN: TERESA MAYER
1 (217) 789-8666

CWLP ATTN: ROLEEN THOLE 1 (217) 757-8520 EXT. 2155
COMCAST ATTN: DAVID BLI 1 (217) 527-2967 EXT. 68967



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

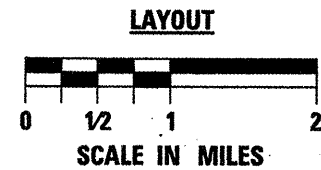
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



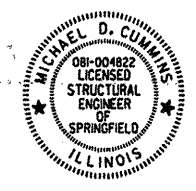
RESTORATION OF VACHEL LINDSAY BRIDGE INCLUDING DECK REPAIRS, EXPANSION JOINT REPLACEMENT, RAILING REPAIRS, BRIDGE DECK POLYMER OVERLAY, STRUCTURE REPAIRS AND THE ADDITION OF LIGHTING.

S.N. 084-9916
VACHEL LINDSAY BRIDGE
PROJECT LOCATION

LONG BAY DR



LENGTH OF PROJECT: 1,394.00 FT. = 0.264 MI.
COLLECTOR HIGHWAY: ADT 3300 (18)
30 MPH



Michael D. Cummins
(Expires 11/30/2012) 2/9/11
ILLINOIS PROFESSIONAL NO. 43244
(Expires 11/30/11)

APPROVED Feb. 16 . 20 11
[Signature]
MAYOR - CITY OF SPRINGFIELD, ILLINOIS

PASSED February 18 . 20 11
Terence Fazio
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

PASSED February 18 . 20 11
Ron Orban
DISTRICT ENGINEER OF CONSTRUCTION

RELEASED FOR BID BASED ON LIMITED REVIEW February 18 . 20 11
Roger Druehler
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CONTRACT NO. 93546

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
2. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60.
3. EXISTING REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH DECK SLAB REPAIR.
4. ALL NEW REINFORCEMENT BARS SHALL BE EPOXY COATED.
5. NO DEBRIS OR RUNOFF WILL BE ALLOWED TO ENTER LAKE SPRINGFIELD. THE CONTRACTOR SHALL SUBMIT A PREVENTION PLAN TO THE ENGINEER FOR APPROVAL. THIS PLAN SHALL INDICATE THE MEASURES THAT THE CONTRACTOR WILL UTILIZE TO PREVENT DEBRIS AND RUNOFF FROM ENTERING THE LAKE. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK ITEM WHICH GENERATES DEBRIS OR RUNOFF.
6. NO VEHICLES WILL BE ALLOWED ON SPANS 8 THROUGH 16 DURING THE REMOVAL AND REPLACEMENT OF THE EXPANSION JOINTS IN THOSE SPANS. LIMIT EQUIPMENT LOADS TO 3000 POUNDS MAXIMUM IN THESE SPANS DURING EXPANSION JOINT REMOVAL AND REPLACEMENT. THE NEW CONCRETE AT THE EXPANSION JOINTS SHALL BE ALLOWED TO CURE FOR A MINIMUM 14 DAYS BEFORE TRAFFIC IS ALLOWED ON THESE SPANS.
7. THE VACHEL LINDSAY BRIDGE IS A HISTORIC STRUCTURE. ALL MATERIALS USED TO REPLACE THE EXISTING RAILING STONES AND TO REPAIR THE EXISTING CONCRETE SHALL MATCH THE EXISTING MATERIALS IN COLOR AND TEXTURE. SEE THE SPECIAL PROVISIONS FOR THE REQUIRED SAMPLE SUBMITTALS AND APPROVALS.
8. THE REMOVAL AND DISPOSAL OF THE EXISTING ASPHALT PATCHING MATERIALS ON THE CONCRETE DECK WILL NOT BE MEASURED AND PAID FOR SEPERATELY. THIS WORK SHALL BE INCLUDED IN THE COST OF THE DECK SLAB REPAIRS.
9. THE CITY WILL TURN OFF THE ELECTRICAL POWER AND REMOVE THE EXISTING LIGHT UNITS BEFORE CONSTRUCTION. VERIFY THAT THE POWER IS OFF BEFORE BEGINNING ELECTRICAL WORK.
10. THE EXISTING SIGNAL CABLES ON THE SOUTH SIDE OF THE BRIDGE ARE TO REMAIN DURING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN THE VICINITY OF THESE CABLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR OPERATIONS.
11. THE CONTRACTOR SHALL LIMIT THE WORK AREA TO THE AREA OF THE BRIDGE AND BELOW. THE CONTRACTOR MAY USE THE BRIDGE APPROACH ROADWAY FROM JUST WEST OF THE BOAT RAMP ENTRANCE TO JUST EAST OF THE PARKING LOT ENTRANCES ON THE WEST SIDE OF THE BRIDGE. THE CONTRACTOR SHALL KEEP THE PARKING LOT AND BOAT RAMP ENTRANCES OPEN TO PUBLIC TRAFFIC. ANY USE OF THESE PUBLIC AREAS BY THE CONTRACTOR SHALL BE APPROVED BY THE CITY.
12. SEE THE SPECIAL PROVISION FOR BRIDGE DECK THIN POLYMER OVERLAY. THE OVERLAY WILL BE APPLIED TO THE ENTIRE SURFACE OF THE DECK AND THE SIDEWALKS. SCARIFICATION WILL NOT BE REQUIRED. FINAL SURFACE PREPARATION WILL OCCUR AFTER THE DECK REPAIRS ARE COMPLETED. CONTRACTOR SHALL NOTE THE 28 DAY CURE TIME REQUIRED FOR DECK REPAIRS.
13. SCALED AREAS OF THE CONCRETE DECK LESS THAN OR EQUAL TO 3/4 INCH DEEP, WHICH ARE SOUND AND DO NOT REQUIRE DECK REPAIRS, SHALL BE PRETREATED IN ACCORDANCE WITH THE SPECIAL PROVISION ENTITLED POLYMER OVERLAY PRETREATMENT AFTER FINAL SURFACE PREPARATION.

SUMMARY OF QUANTITIES				SN 084-9916		
				ITEP FUNDING		
				CONSTRUCTION TYPE CODE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	003		
50102400	CONCRETE REMOVAL	CU YD	4.9	4.9		
50300225	CONCRETE STRUCTURES	CU YD	2.3	2.3		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	360	360		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	600	600		
67100100	MOBILIZATION	L SUM	1	1		
△ 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2,788	2,788		
△ 81200220	CONDUIT EMBEDDED IN STRUCTURE, 1 1/2" DIA, PVC	FOOT	2,620	2,620		
△ 81702500	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4/C NO. 6	FOOT	2,680	2,680		
* X0300864	MAINTENANCE OF NAVIGATION	L SUM	1	1		
* X0322944	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	5,333	5,333		
* X0324939	ANCHOR RODS	EACH	112	112		
* X0325747	BRIDGE DECK CONCRETE CRACK SEALER	FOOT	3,016	3,016		
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
△ * XX002065	LIGHTING UNIT, COMPLETE	EACH	28	28		
* Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1,903	1,903		
* Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	443	443		
* XX008506	REMOVE AND RESET FACE STONE	FOOT	2,609	2,609		
* XX008507	MASONRY CLEANING AND TUCKPOINTING	FOOT	13,500	13,500		
* XX008508	REMOVE AND REPLACE BALUSTERS	EACH	1,730	1,730		
* XX008509	REMOVE AND REPLACE RAILING CAP STONE	FOOT	39	39		
* XX008510	REMOVE AND REPLACE BASE STONE	FOOT	210	210		
* XX008511	REMOVE AND REPLACE FACE STONE	FOOT	148	148		
* XX008512	REMOVE AND REPLACE FLOOR DRAINS	EACH	22	22		
* XX008513	POLYMER OVERLAY PRETREATMENT	SQ YD	116	116		
* XX008514	PIER STONE	CU FT	26	26		
* XX008515	REMOVE AND RESET STONework AT PIER	EACH	28	28		
* XX008516	REMOVE AND REPLACE INTERMEDIATE STONE	FOOT	25	25		

* SEE SPECIAL PROVISIONS

△ SPECIALTY ITEMS

CEC Civil and Structural Engineering	Cummins Engineering Corporation	JOB = 2207	DESIGNED M.D.C.
		FILE = sht-soq.dgn	CHECKED A.A.M.
		DATE = 2/14/2011	DRAWN T.S.H.
			CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	2
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

**DECK SLAB RESTORATION-ROADWAY
DECK SLAB REPAIR (PARTIAL)**

Spans	Area (SQ. YD.)
1 - 6	25.22
6 - 8	22.91
8 - 10	22.27
10 - 12	15.96
12 - 14	39.29
14 - 16	26.96
16 - 21	50.32
Total	202.93

POLYMER OVERLAY PRETREATMENT

SPANS	Area (SQ. YD.)
1-6	3.48
6-8	10.91
8-10	27.12
10-12	8.33
12-14	5.19
14-16	38.14
16-21	22.72
TOTAL	115.89

SUMMARY -STRUCTURAL REPAIR OF CONCRETE

SPANS	STRUCTURAL REPAIR OF CONCRETE (SQ FT)
2-4	130.25
5, 17	196.59
6	76.86
7	62.41
8	133.01
9	161.64
10	284.15
11	191.72
12	164.32
13	57.40
14	90.43
15	112.37
16	84.89
18-20	156.35
Vertical Repairs	899.63
Horizontal Repairs	1002.76
Subtotal	1902.39

**DECK SLAB RESTORATION-SIDEWALK
DECK SLAB REPAIR (PARTIAL)**

Spans	Area (SQ. YD.)
1 - 6	18.51
6 - 8	9.52
8 - 10	32.28
10 - 12	48.53
12 - 14	20.19
14 - 16	2.75
16 - 21	2.16
Total	133.94

BRIDGE DECK CONCRETE CRACK SEALER

SPANS	FOOT
2-4	136
5	48
6	225
7	344
8	226
9	205
10	214
11	192
12	158
13	234
14	280
15	293
16	307
17	66
18-20	88
Subtotal	3016

PAINT PAVEMENT MARKING - LINE 5"

LOCATION	FOOT
DOUBLE YELLOW CENTERLINE	
STA 0+33 TO STA 14+27	2,788
TOTAL	2,788

**EXPANSION JOINT REPAIRS
DECK SLAB REPAIR (PARTIAL)**

SPANS	EXPANSION JOINT REPAIRS (SQ. YD.)
1 - 6	22.36
6 - 8	12.16
8 - 10	12.16
10 - 12	12.16
12 - 14	12.16
14 - 16	12.16
16 - 21	22.36
TOTAL	105.52

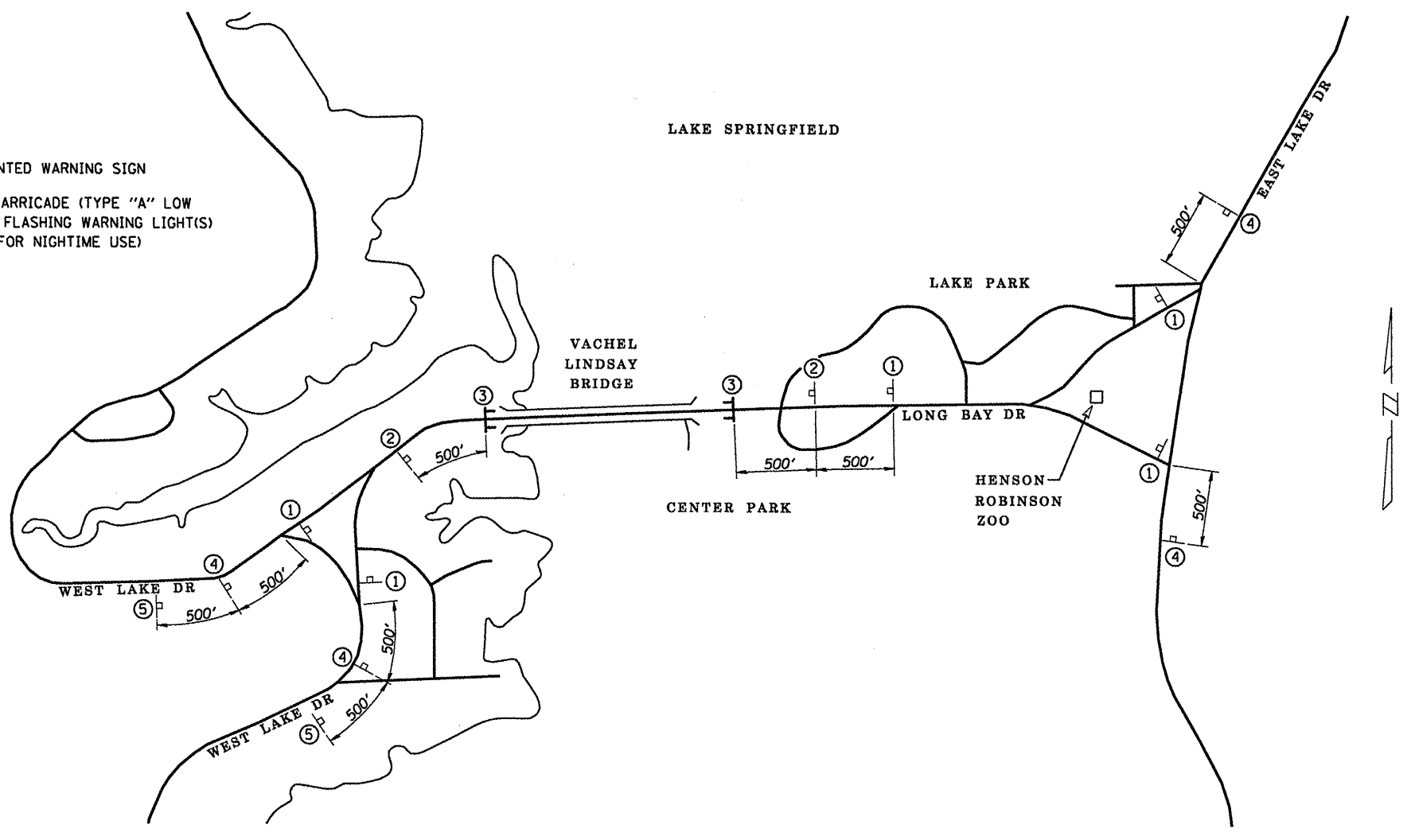
(Includes area from face to face of railing curb)

BRIDGE DECK THIN POLYMER OVERLAY, 3/8"

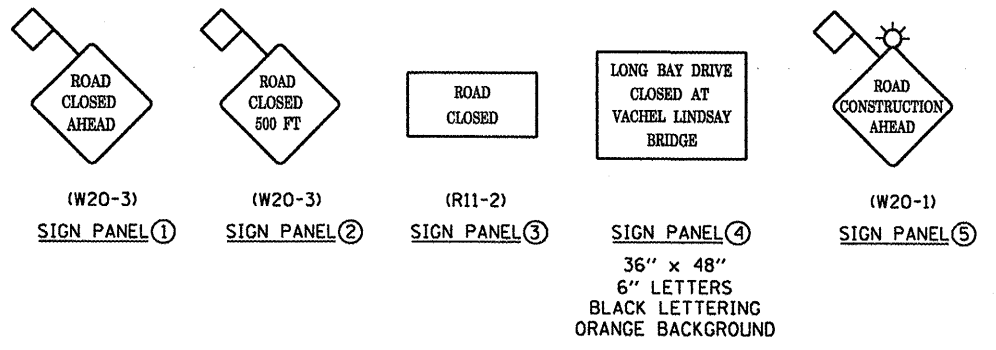
(LIMITS: END-END BRIDGE, FACE-FACE RAILING INCLUDING SIDEWALKS)

SPANS	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
1-5	177.00	35.92	706.43
6-16	1040.00	33.92	3919.64
17-21	177.00	35.92	706.43
TOTAL			5332.50

- ⏏ POST MOUNTED WARNING SIGN
- ⏏ TYPE III BARRICADE (TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT(S) REQUIRED FOR NIGHTTIME USE)



TRAFFIC CONTROL PLAN



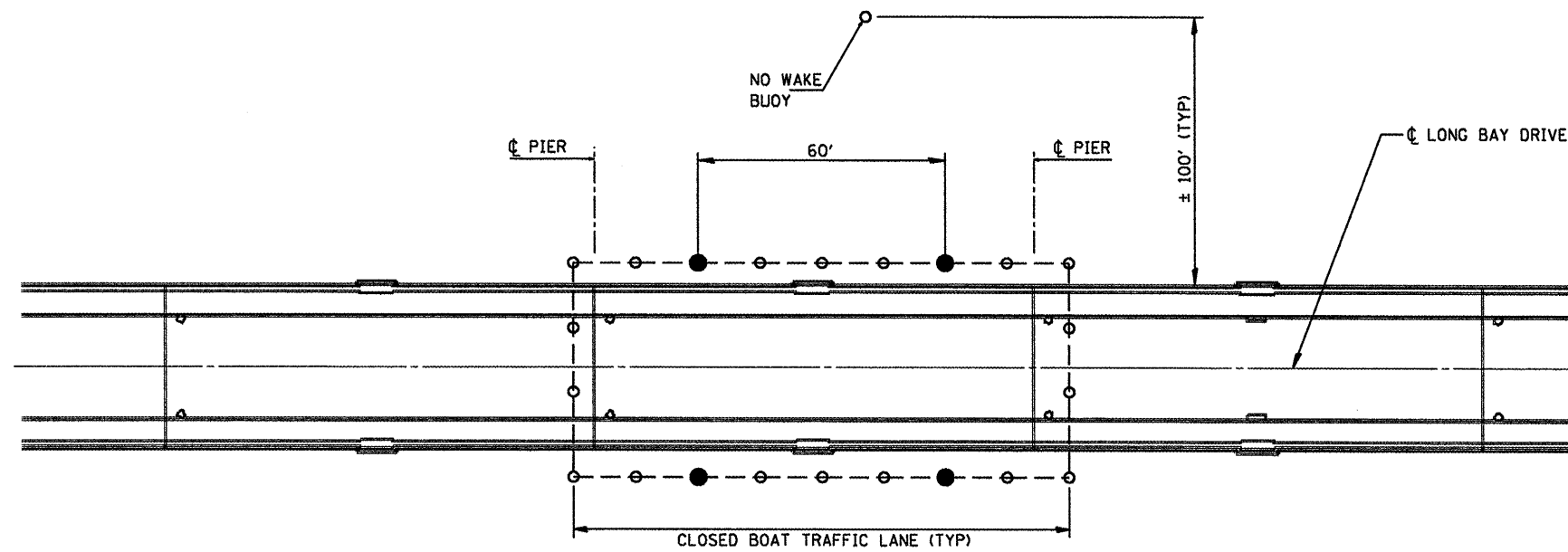
GENERAL NOTES

1. DETAILS OF TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE PLANS, INCLUDING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD 701901 AND BLR 21.
2. SIGN AND BARRICADE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
3. ALL WORK SHALL BE COMPLETED WITH THE COMPLETE TRAFFIC CONTROL IN PLACE AND THE BRIDGE CLOSED TO TRAFFIC.

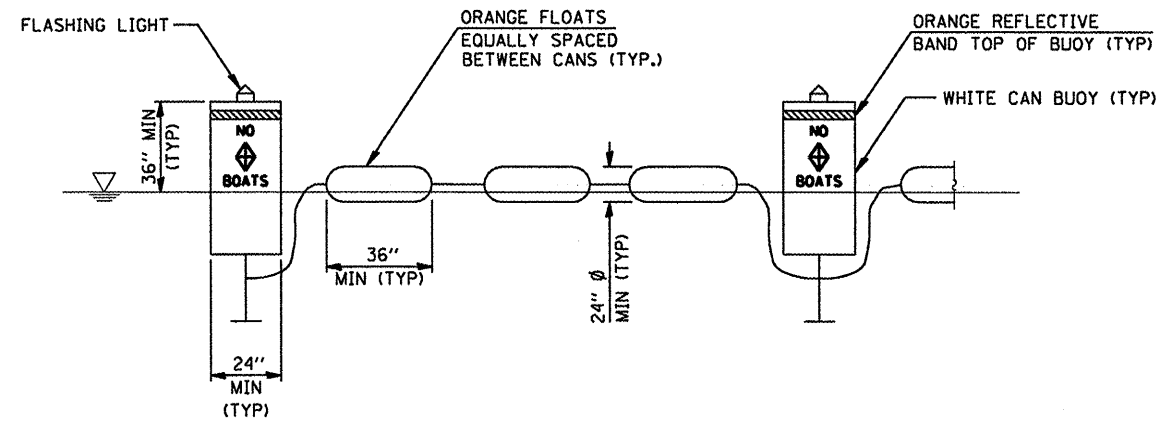
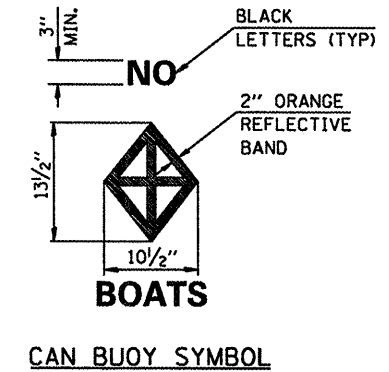
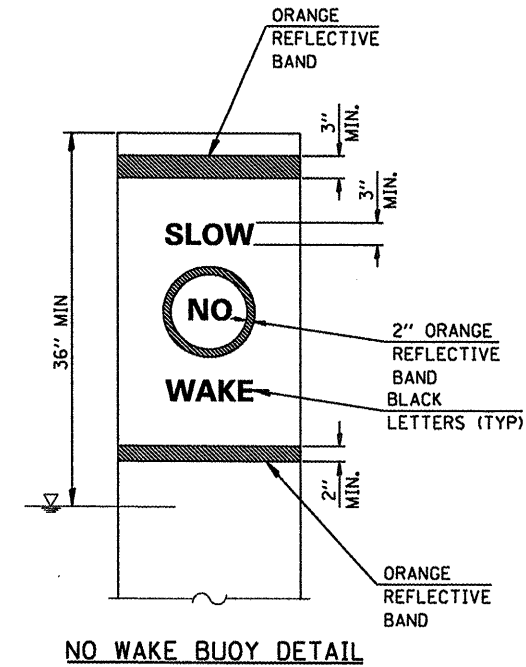


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FILE = traffic.dgn	CHECKED	M.D.C.
DATE = 2/9/2011	DRAWN	A.J.H.
	CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	4
CITY OF SPRINGFIELD		CONTRACT NO. 93546		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NO WAKE BUOY
CLOSED BOAT LANE DETAIL



BARRIER FLOAT SYSTEM

MAINTENANCE OF BOAT TRAFFIC

WHEN ANY REMOVAL OR CONSTRUCTION IS BEING PERFORMED IN OR OVER A BOAT TRAFFIC LANE, THAT LANE SHALL BE CLOSED OFF TO BOAT TRAFFIC BY MOVING THE BARRIER FLOAT SYSTEMS FOR THAT LANE ACROSS THE LANE OPENING (SEE CLOSED BOAT LANE DETAIL).

AT LEAST ONE LANE OF BOAT TRAFFIC WILL BE MAINTAINED AT ALL TIMES.

ANY CONSTRUCTION EQUIPMENT LOCATED OUTSIDE THE BARRIER FLOAT SYSTEM SHOWN SHALL BE ENCLOSED WITH A SIMILAR BARRIER FLOAT SYSTEM.

LEGEND

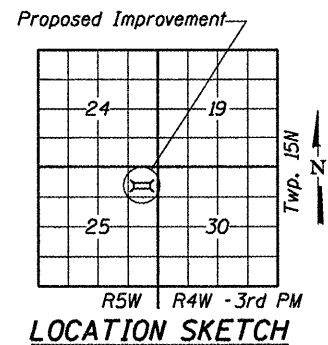
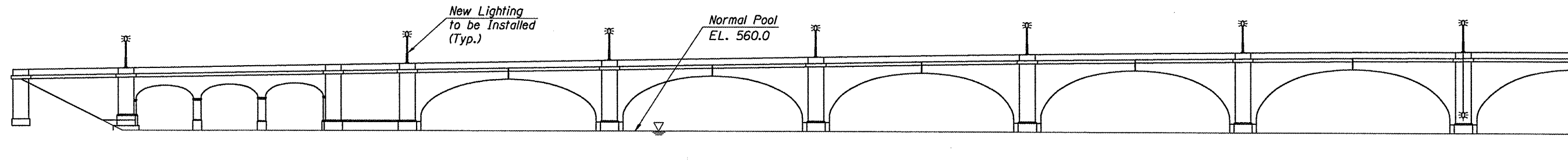
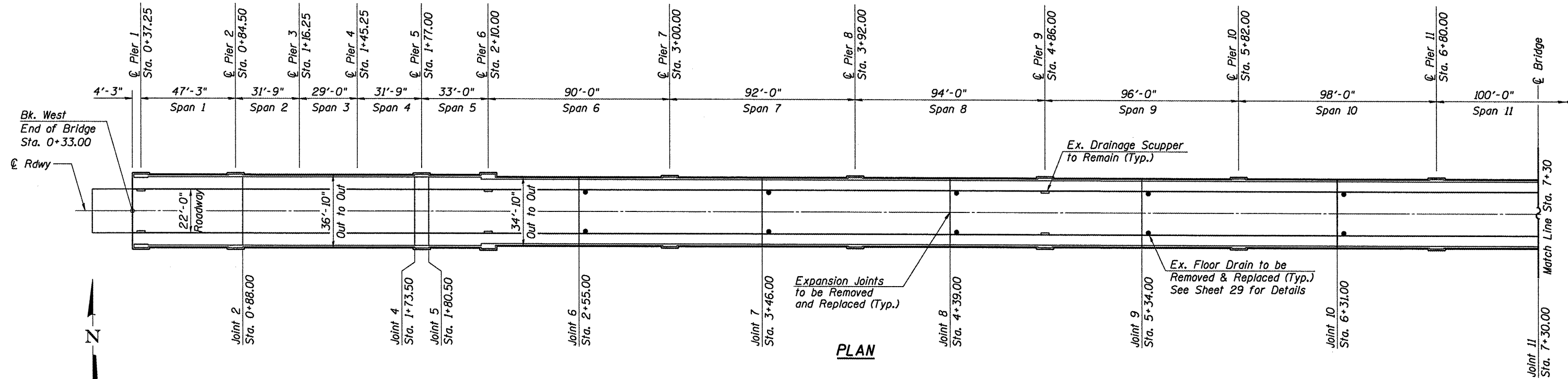
- --- ○ BARRIER FLOAT SYSTEM
- FLOTATION SILT CURTAIN-STILL WATER
- NO BOATS BUOY

JOB = 2207	DESIGNED A.A.N.
FILE = traffic.dgn	CHECKED M.D.C.
DATE = 2/9/2011	DRAWN A.J.H.
	CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	5
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT 93546		

The existing structure, S.N. 084-9916, originally built in 1933 is a 21 span reinforced concrete bridge on both pile supported and spread footings. The existing bridge is 1394'-0" end to end, with a 22'-0" roadway face to face of curbs. The bridge width varies from 36'-10" o.-o. deck at the end spans to 34'-10" o.-o. deck on the main spans.

The existing structure will be renovated. The contractor shall repair the bridge deck and sidewalk and complete all structure repairs. The stone railing shall be renovated by removing and resetting necessary stonework, replacing damaged stones and installing new balusters. New lighting conduits will be installed and light poles erected at the piers as shown in the plans. The bridge deck will be blasted and a new polymer overlay wearing surface shall be applied to the deck.



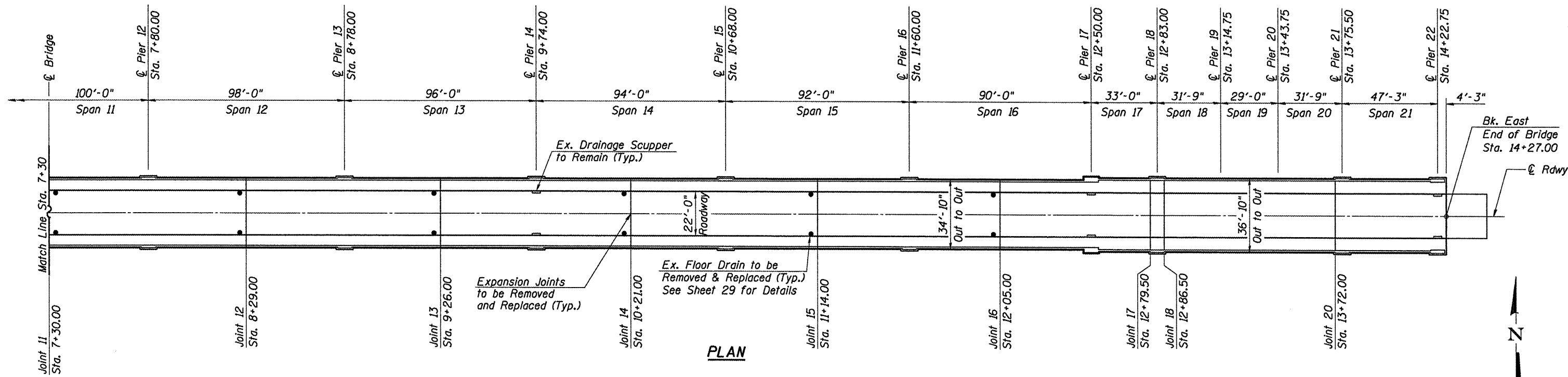
**GENERAL PLAN & ELEVATION
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS
STATION 7+30
STRUCTURE NO. 084-9916**

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

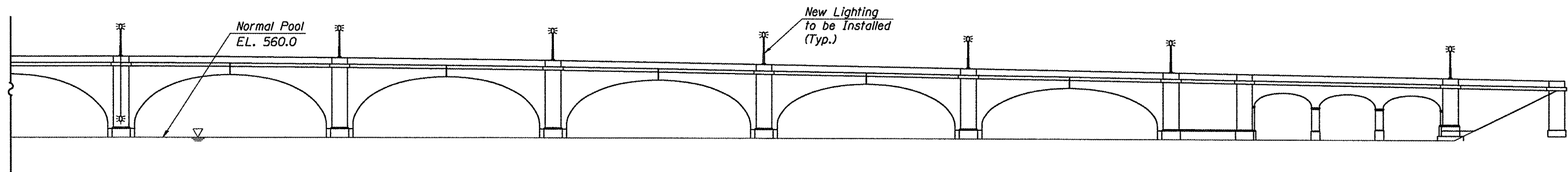
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FILE = 2207gpe.dgn	CHECKED A.A.M.
DATE = 2/9/2011	DRAWN T.S.H.
	CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	6
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

93546



PLAN



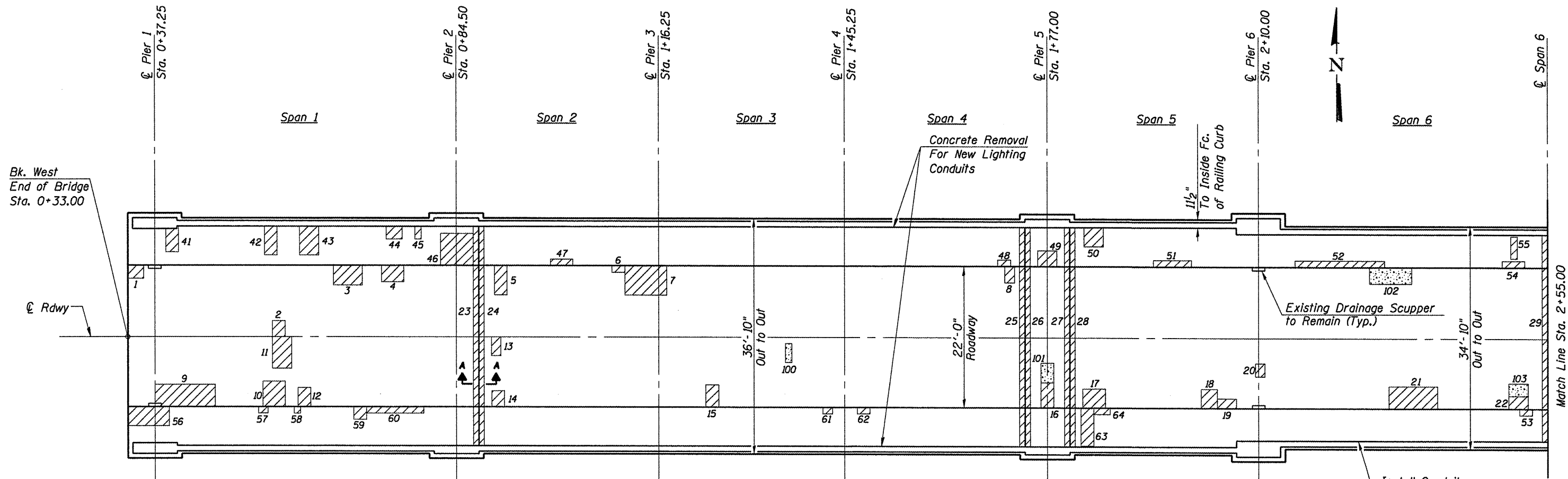
ELEVATION

GENERAL PLAN & ELEVATION
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS
STATION 7+30
STRUCTURE NO. 084-9916

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2207	DESIGNED	M.D.C.
	FILE = 2207gpe.dgn	CHECKED	A.A.N.
	DATE = 2/9/2011	DRAWN	T.S.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	7
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

93546



DECK REPAIR PLAN
(Spans 1 thru 6)

DECK SLAB RESTORATION-ROADWAY SPANS 1-6
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	2.50	2.00	0.56
2	2.00	2.50	0.56
3	4.50	3.00	1.50
4	3.50	2.50	0.97
5	2.00	4.50	1.00
6	2.00	1.00	0.22
7	6.50	4.50	3.25
8	1.50	2.50	0.42
9	9.50	3.50	3.69
10	3.50	4.00	1.56
11	3.00	5.00	1.67
12	2.00	3.00	0.67
13	1.50	3.00	0.50
14	2.00	2.50	0.56
15	2.00	3.50	0.78
16	2.00	4.00	0.89
17	3.50	3.00	1.17
18	2.50	3.00	0.83
19	3.00	1.50	0.50
20	1.50	2.00	0.33
21	7.50	3.50	2.92
22	3.00	2.00	0.67
Subtotal			25.22

DECK SLAB RESTORATION-SIDEWALK SPANS 1-6
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	2.00	4.00	0.89
42	2.00	4.50	1.00
43	3.00	4.50	1.50
44	2.50	2.00	0.56
45	1.00	2.00	0.22
46	5.00	5.00	2.78
47	3.50	1.00	0.39
48	2.00	1.00	0.22
49	3.00	2.50	0.83
50	3.00	3.00	1.00
51	6.00	1.00	0.67
52	14.00	1.00	1.56
53	2.00	1.00	0.22
54	3.50	1.00	0.39
55	1.00	3.50	0.39
56	6.50	3.00	2.17
57	1.50	1.00	0.17
58	1.00	1.00	0.11
59	2.00	2.00	0.44
60	9.00	1.00	1.00
61	1.50	1.00	0.17
62	2.00	1.00	0.22
63	2.00	6.00	1.33
64	2.50	1.00	0.28
Subtotal			18.51

POLYMER OVERLAY PRETREATMENT
SPANS 1-6

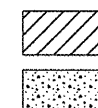
Area No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	1.00	3.00	0.33
101	2.00	3.00	0.67
102	6.50	2.50	1.81
103	2.00	3.00	0.67
Subtotal			3.48

EXPANSION JOINT REPAIRS-SPANS 1-6
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
23	0.83	34.92	3.22
24	0.83	34.92	3.22
25	0.83	34.92	3.22
26	0.83	34.92	3.22
27	0.83	34.92	3.22
28	0.83	34.92	3.22
29	0.83	32.92	3.04
Subtotal			22.36

(Includes area from face to face of railing curb)

LEGEND



Indicates Area to be Repaired (depth ≤ 5 Inch)
Indicates Area to be Pretreated

Notes:

Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

See Floor Drain Details for Removal and Replacement.

DECK REPAIR DETAILS
SPANS 1-6

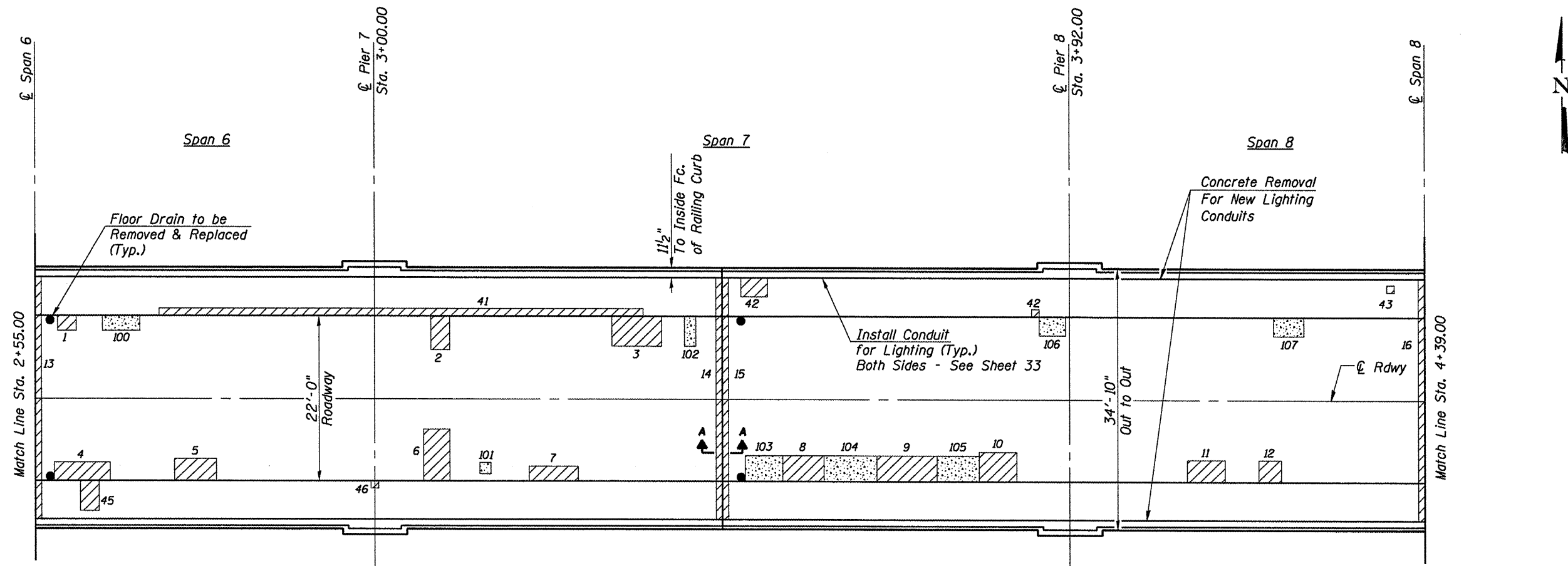
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



JOB = 2207	DESIGNED A.A.N.
FILE = 2207deck.dgn	CHECKED M.D.C.
DATE = 2/9/2011	DRAWN T.S.H.
	CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	8
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

93546



DECK REPAIR PLAN
(Spans 6 thru 8)

DECK SLAB RESTORATION-ROADWAY SPANS 6-8
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	2.50	2.00	0.56
2	2.50	4.50	1.25
3	6.50	4.00	2.89
4	7.50	2.50	2.08
5	5.50	3.00	1.83
6	3.50	7.00	2.72
7	6.50	2.00	1.44
8	5.50	3.50	2.14
9	8.00	3.50	3.11
10	5.00	4.00	2.22
11	5.00	3.00	1.67
12	3.00	3.00	1.00
Subtotal			22.91

DECK SLAB RESTORATION-SIDEWALK SPANS 6-8
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	64.00	1.00	7.11
42	3.50	2.50	0.97
43	1.00	1.00	0.11
44	1.00	1.00	0.11
45	2.50	4.00	1.11
46	1.00	1.00	0.11
Subtotal			9.52

POLYMER OVERLAY PRETREATMENT
SPANS 6-8

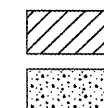
Area No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	5.00	2.00	1.11
101	1.50	1.50	0.25
102	1.50	4.00	0.67
103	5.00	3.50	1.94
104	7.00	3.50	2.72
105	5.50	3.50	2.14
106	3.50	2.50	0.97
107	4.00	2.50	1.11
Subtotal			10.91

EXPANSION JOINT REPAIRS-SPANS 6-8
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
13	0.83	32.92	3.04
14	0.83	32.92	3.04
15	0.83	32.92	3.04
16	0.83	32.92	3.04
SUBTOTAL			12.16

(Includes area from face to face of railing curb)

LEGEND



Indicates Area to be Repaired (depth ≤ 5 Inch)

Indicates Area to be Pretreated

Notes:

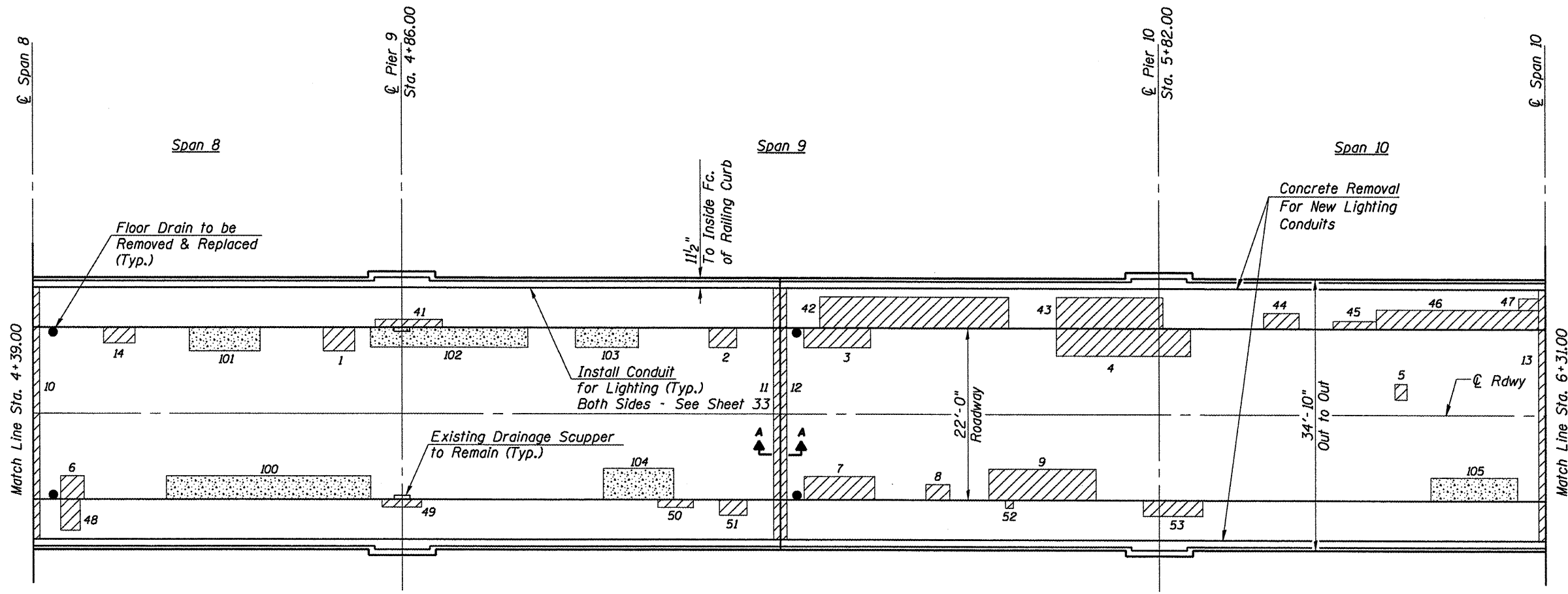
Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

See Floor Drain Details for Removal and Replacement.

DECK REPAIR DETAILS
SPANS 6-8

VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



DECK REPAIR PLAN
(Spans 8 thru 10)

DECK SLAB RESTORATION-ROADWAY SPANS 8-10
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	4.00	3.00	1.33
2	3.50	2.50	0.97
3	8.50	2.50	2.36
4	17.00	3.50	6.61
5	1.50	2.00	0.33
6	3.00	3.00	1.00
7	9.00	3.00	3.00
8	3.00	2.00	0.67
9	13.50	4.00	6.00
Subtotal			22.27

DECK SLAB RESTORATION-SIDEWALK SPANS 8-10
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	8.50	1.00	0.94
42	24.00	4.00	10.67
43	13.50	4.00	6.00
44	4.50	2.00	1.00
45	5.50	1.00	0.61
46	20.50	2.50	5.69
47	2.50	1.50	0.42
48	2.50	4.00	1.11
49	5.00	1.00	0.56
50	4.50	1.00	0.50
51	13.50	2.00	3.00
52	1.00	1.00	0.11
53	7.50	2.00	1.67
Subtotal			32.28

POLYMER OVERLAY PRETREATMENT
SPANS 8-10

Area No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	26.00	3.00	8.67
101	9.00	3.00	3.00
102	20.00	2.50	5.56
103	8.00	2.50	2.22
104	9.00	4.00	4.00
105	11.00	3.00	3.67
Subtotal			27.12

EXPANSION JOINT REPAIRS-SPANS 8-10
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
10	0.83	32.92	3.04
11	0.83	32.92	3.04
12	0.83	32.92	3.04
13	0.83	32.92	3.04
SUBTOTAL			12.16

(Includes area from face to face of railing curb)

LEGEND

- Indicates Area to be Repaired (depth ≤ 5 Inch)
- Indicates Area to be Pretreated

Notes:

Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

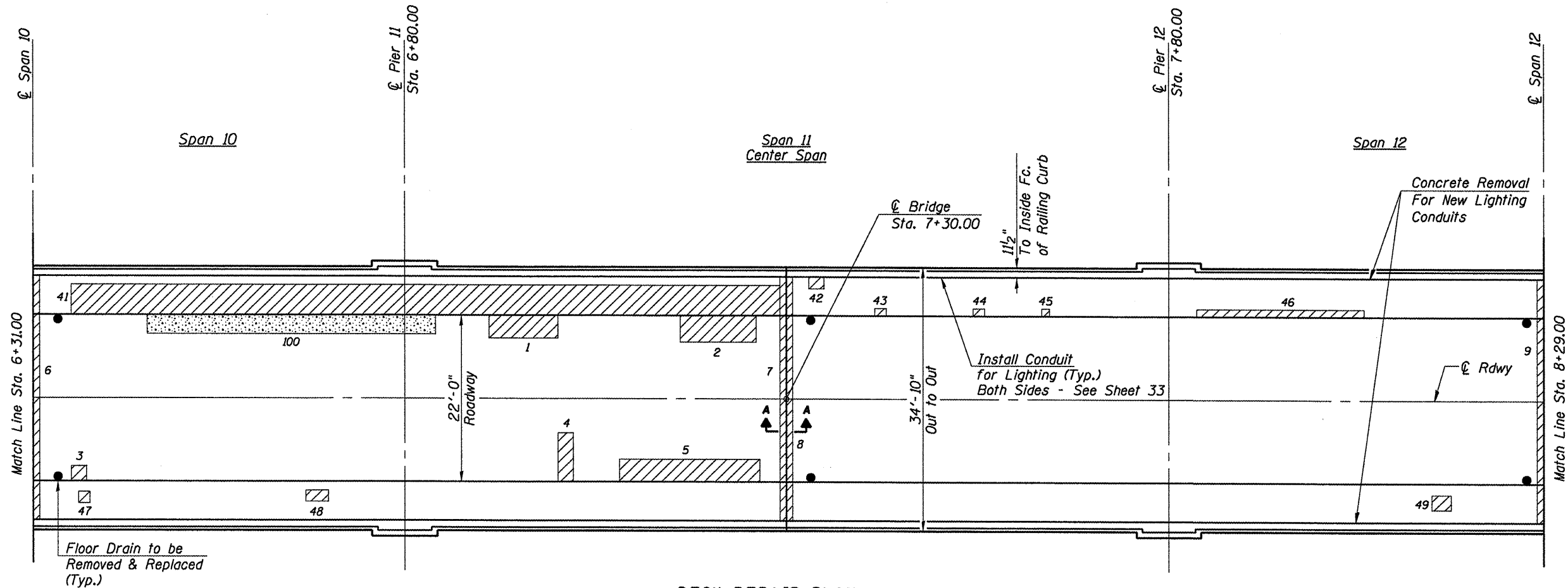
See Floor Drain Details for Removal and Replacement.

DECK REPAIR DETAILS
SPANS 8-10
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2207	DESIGNED A.A.M.
	FILE = 2207deck.dgn	CHECKED M.D.C.
	DATE = 2/9/2011	DRAWN T.S.H.
		CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	10
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

93546



DECK REPAIR PLAN
(Spans 10 thru 12)

DECK SLAB RESTORATION-ROADWAY SPANS 10-12
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	9.00	3.00	3.00
2	10.00	3.50	3.89
3	2.00	2.00	0.44
4	2.00	6.50	1.44
5	18.50	3.50	7.19
Subtotal			15.96

DECK SLAB RESTORATION-SIDEWALK SPANS 10-12
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	99.00	4.00	44.00
42	2.00	1.50	0.33
43	1.50	1.00	0.17
44	1.50	1.00	0.17
45	1.00	1.00	0.11
46	22.00	1.00	2.44
47	1.50	1.50	0.25
48	3.00	1.50	0.50
49	2.50	2.00	0.56
Subtotal			48.53

POLYMER OVERLAY PRETREATMENT
SPANS 10-12

Area No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	30.00	2.50	8.33
Subtotal			8.33

EXPANSION JOINT REPAIRS-SPANS 10-12
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
6	0.83	32.92	3.04
7	0.83	32.92	3.04
8	0.83	32.92	3.04
9	0.83	32.92	3.04
SUBTOTAL			12.16

(Includes area from face to face of railing curb)

LEGEND

- Indicates Area to be Repaired (depth ≤ 5 Inch)
- Indicates Area to be Pretreated

Notes:

Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

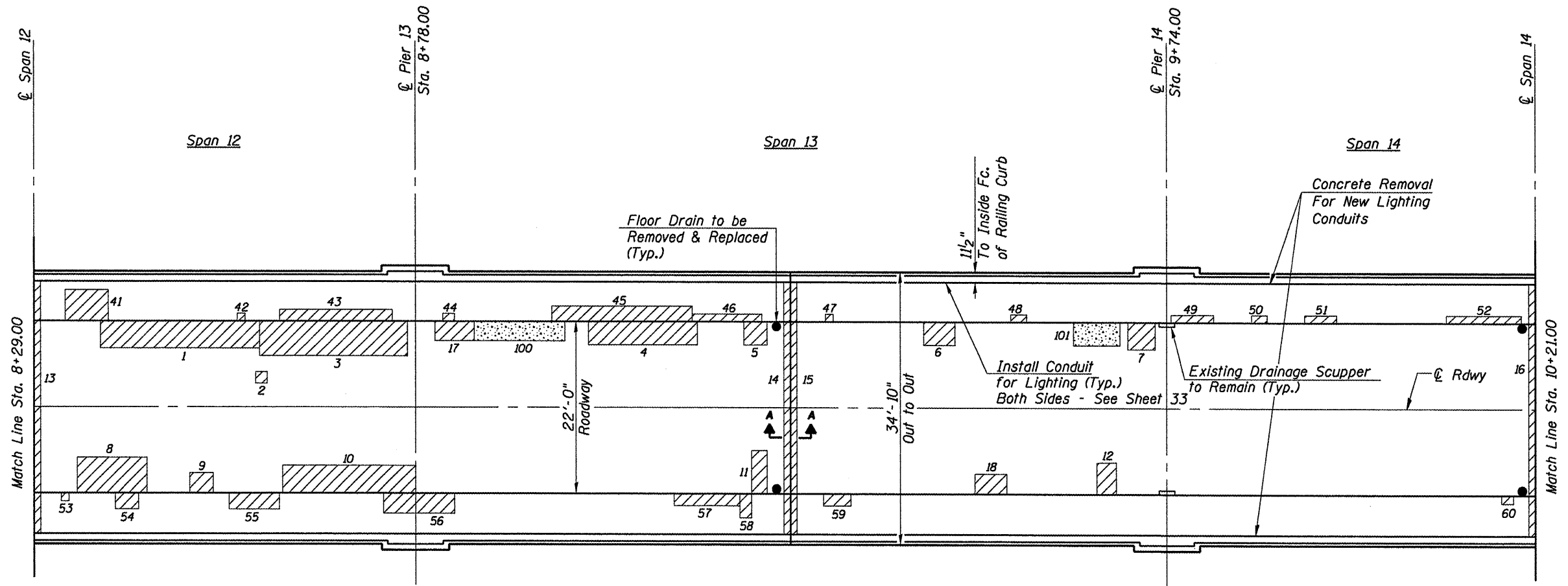
See Floor Drain Details for Removal and Replacement.

DECK REPAIR DETAILS
SPANS 10-12
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207deck.dgn	CHECKED	M.D.C.
	DATE = 2/9/2011	DRAWN	T.S.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	11
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

03546



DECK REPAIR PLAN
(Spans 12 thru 14)

DECK SLAB RESTORATION-ROADWAY SPANS 12-14
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	20.50	3.50	7.97
2	1.50	1.50	0.25
3	19.00	4.00	8.44
4	14.00	3.00	4.67
5	3.00	3.00	1.00
6	4.00	3.00	1.33
7	3.50	3.50	1.36
8	9.00	4.50	4.50
9	3.00	2.50	0.83
10	17.00	3.50	6.61
11	2.00	5.50	1.22
12	2.50	4.00	1.11
Subtotal			39.29

DECK SLAB RESTORATION-SIDEWALK SPANS 12-14
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	5.50	4.00	2.44
42	1.00	1.00	0.11
43	14.50	1.50	2.42
44	1.50	1.00	0.17
45	18.00	2.00	4.00
46	9.00	1.00	1.00
47	1.00	1.00	0.11
48	2.00	1.00	0.22
49	5.50	1.00	0.61
50	2.00	1.00	0.22
51	4.00	1.00	0.44
52	9.50	1.00	1.06
53	1.00	1.00	0.11
54	3.00	2.00	0.67
55	6.50	2.00	1.44
56	9.00	2.50	2.50
57	8.50	1.50	1.42
58	1.50	3.00	0.50
59	3.50	1.50	0.58
60	1.50	1.00	0.17
Subtotal			20.19

POLYMER OVERLAY PRETREATMENT
SPANS 12-14

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	11.50	2.50	3.19
101	6.00	3.00	2.00
Subtotal			5.19

EXPANSION JOINT REPAIRS-SPANS 12-14
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
13	0.83	32.92	3.04
14	0.83	32.92	3.04
15	0.83	32.92	3.04
15	0.83	32.92	3.04
SUBTOTAL			12.16

(Includes area from face to face of railing curb)

LEGEND

- Indicates Area to be Repaired (depth ≤ 5 Inch)
- Indicates Area to be Pretreated

Notes:

Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

See Floor Drain Details for Removal and Replacement.

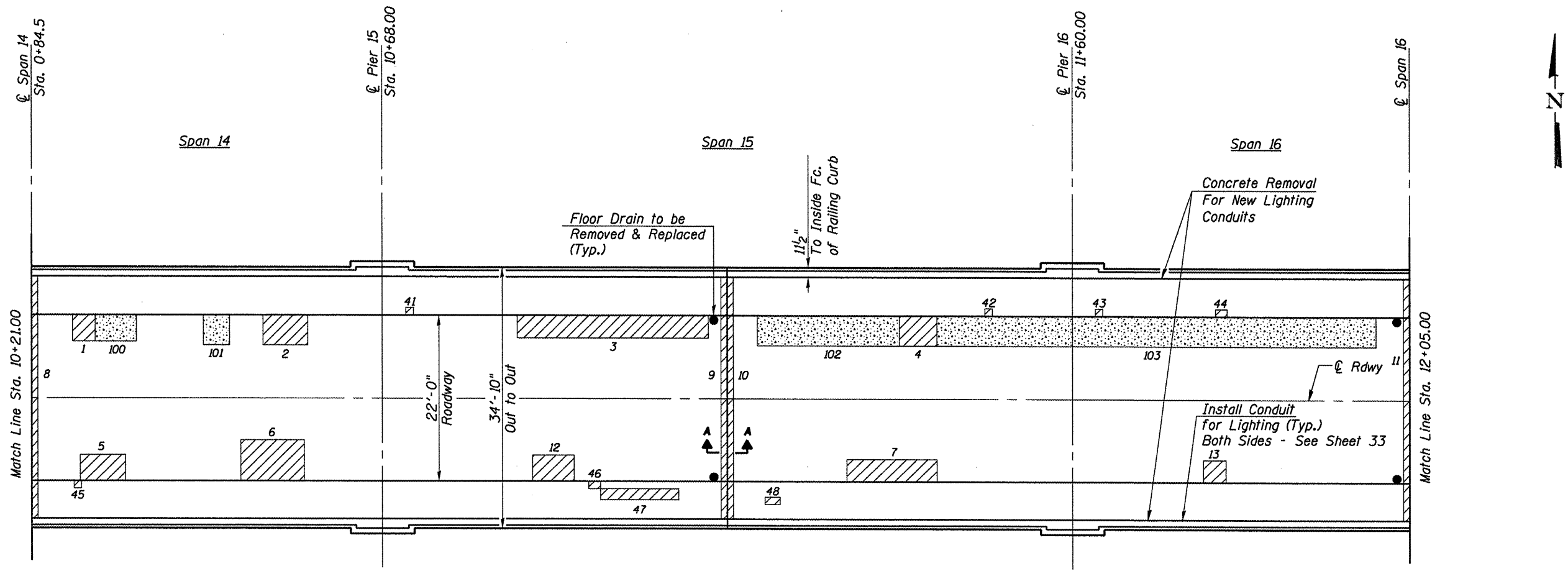
DECK REPAIR DETAILS
SPANS 12-14
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



JOB = 2207	DESIGNED	A.A.N.
FILE = 2207deck.dgn	CHECKED	M.D.C.
DATE = 2/9/2011	DRAWN	T.S.H.
	CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	12
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

93546



DECK REPAIR PLAN
(Spans 14 thru 16)

DECK SLAB RESTORATION-ROADWAY SPANS 14-16
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	3.00	3.50	1.17
2	14.00	4.00	6.22
3	25.50	3.00	8.50
4	5.00	4.00	2.22
5	6.00	3.50	2.33
6	8.50	5.50	5.19
7	4.00	3.00	1.33
Subtotal			26.96

DECK SLAB RESTORATION-SIDEWALK SPANS 14-16
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	1.00	1.00	0.11
42	1.00	1.00	0.11
43	1.00	1.00	0.11
44	1.50	1.00	0.17
45	1.00	1.00	0.11
46	1.50	1.00	0.17
47	10.50	1.50	1.75
48	2.00	1.00	0.22
Subtotal			2.75

POLYMER OVERLAY PRETREATMENT
SPANS 14-16

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	5.50	3.50	2.14
101	3.50	4.00	1.56
102	19.00	4.00	8.44
103	58.50	4.00	26.00
Subtotal			38.14

LEGEND

- Indicates Area to be Repaired (depth ≤ 5 Inch)
- Indicates Area to be Pretreated

Notes:

Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

See Floor Drain Details for Removal and Replacement.

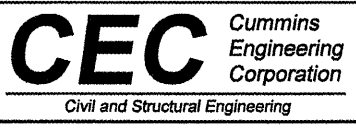
EXPANSION JOINT REPAIRS-SPANS 14-16
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
8	0.83	32.92	3.04
9	0.83	32.92	3.04
10	0.83	32.92	3.04
11	0.83	32.92	3.04
SUBTOTAL			12.16

(Includes area from face to face of railing curb)

DECK REPAIR DETAILS

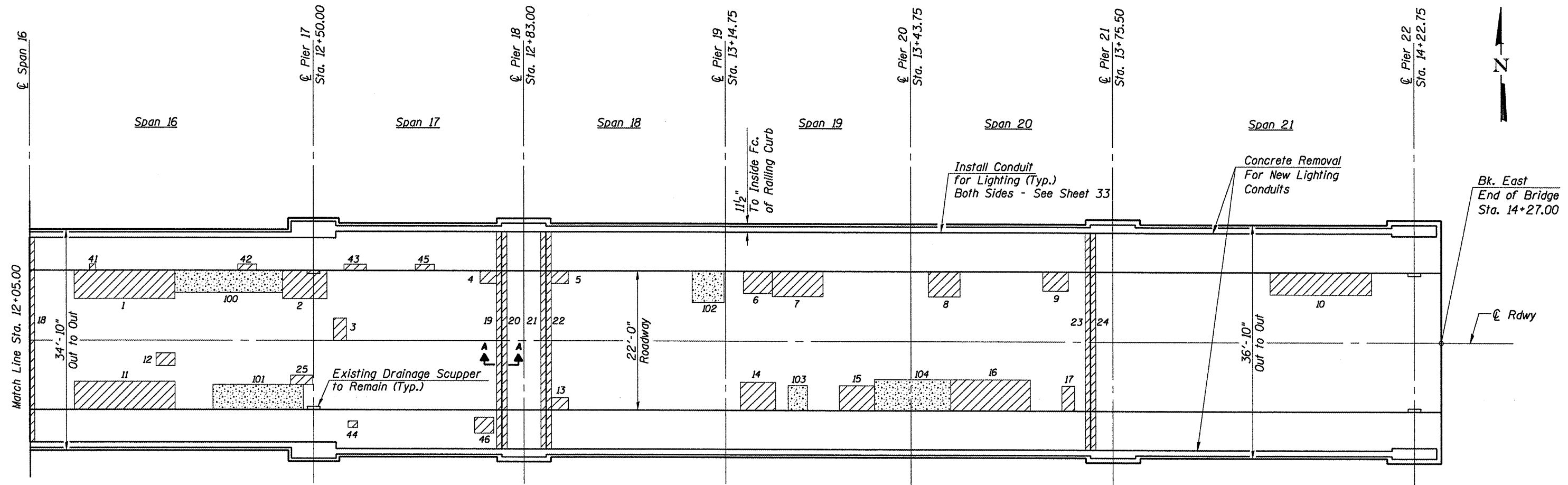
SPANS 14-16
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



JOB = 2207	DESIGNED A.A.N.
FILE = 2207deck.dgn	CHECKED M.D.C.
DATE = 2/9/2011	DRAWN T.S.H.
	CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	13
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

93546



DECK REPAIR PLAN
(Spans 16 thru 21)

DECK SLAB RESTORATION-ROADWAY SPANS 16-21
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
1	16.00	4.50	8.00
2	7.00	4.50	3.50
3	1.50	2.00	0.33
4	2.50	2.00	0.56
5	2.50	2.00	0.56
6	4.50	3.50	1.75
7	8.00	4.00	3.56
8	5.00	4.00	2.22
9	4.00	3.00	1.33
10	16.00	3.50	6.22
11	16.00	4.50	8.00
12	3.00	2.00	0.67
13	2.70	2.00	0.60
14	5.50	4.50	2.75
15	5.50	4.00	2.44
16	12.50	5.00	6.94
17	2.00	4.00	0.89
Subtotal			50.32

DECK SLAB RESTORATION-SIDEWALK SPANS 16-21
DECK SLAB REPAIR (PARTIAL)

Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
41	1.00	1.00	0.11
42	3.00	1.00	0.33
43	3.50	1.00	0.39
44	1.50	1.00	0.17
45	3.00	1.00	0.33
46	3.00	2.50	0.83
Subtotal			2.16

POLYMER OVERLAY PRETREATMENT
SPANS 16-21

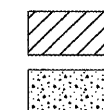
Patch No.	L (FT.)	W (FT.)	Area (SQ. YD.)
100	17.00	3.50	6.81
101	15.00	4.00	6.67
102	5.00	5.00	2.78
103	3.00	4.00	1.33
104	12.00	4.00	5.33
Subtotal			22.72

EXPANSION JOINT REPAIRS-SPANS 16-21
DECK SLAB REPAIR (PARTIAL)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	EXPANSION JOINT REPAIRS (SQ. YD.)
18	0.83	32.92	3.04
19	0.83	34.92	3.22
20	0.83	34.92	3.22
21	0.83	34.92	3.22
22	0.83	34.92	3.22
23	0.83	34.92	3.22
24	0.83	34.92	3.22
SUBTOTAL			22.36

(Includes area from face to face of railing curb)

LEGEND



Indicates Area to be Repaired (depth ≤ 5 Inch)
Indicates Area to be Pretreated

Notes:

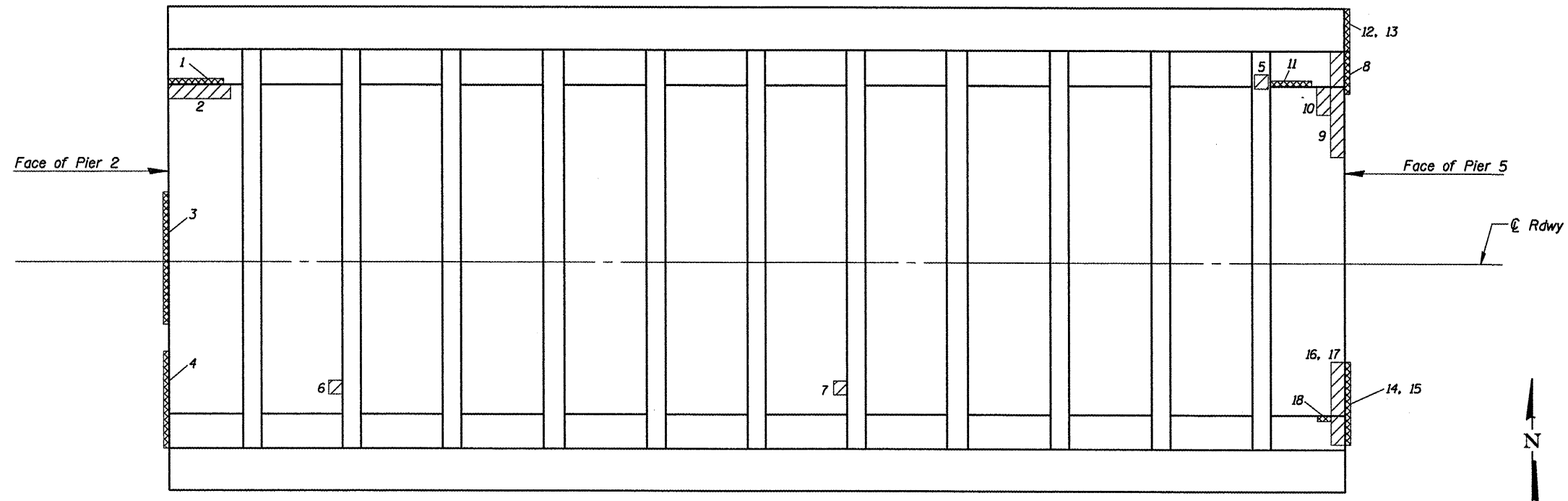
Date of Deck patching survey = May 27, 2010
The Engineer shall record the actual areas of repair and location on this sheet in order to document as-built conditions for future reference.

See Expansion Joint Details for Section A-A.

See Floor Drain Details for Removal and Replacement.

DECK REPAIR DETAILS
SPANS 16-21

VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

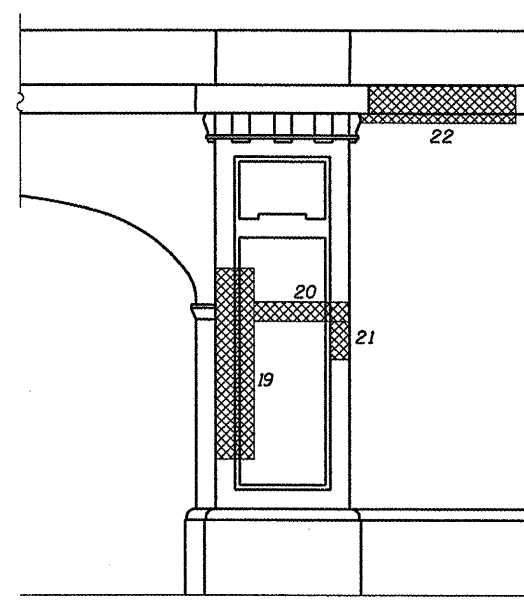


STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Spans 2-4)

STRUCTURAL REPAIR OF CONCRETE
SPAN 2-4

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	0.75'x4.00'	3.00
2	H	1.00'x4.50'	4.50
3	V	1.00'x9.50'	9.50
4	V	(5.50'x7.00')/2*	19.25
5	H	1.00'x1.00'	1.00
6	H	1.00'x1.00'	1.00
7	H	1.00'x1.00'	1.00
8	V	2.00'x3.00'	6.00
9	H	7.50'x1.00'	7.50
10	H	2.00'x1.00'	2.00
11	V	3.00'x1.00'	3.00
12	V	3.00'x2.50'	7.50
13	V	0.50'x3.00'	1.50
14	V	6.00'x1.50'	9.00
15	V	(3.00'x1.00')/2*	1.50
16	H	6.00'x1.00'	6.00
17	H	3.00'x0.67'	2.00
18	V	1.00'x1.00'	1.00
19	V	10.00'x2.00'	20.00
20	V	6.00'x1.00'	6.00
21	V	2.00'x1.00'	2.00
22	V	8.00'x2.00'	16.00
Subtotal of Vertical Repair Areas			105.25
Subtotal of Horizontal Repair Areas			25.00
Subtotal			130.25

* Indicates a triangular repair area



REPAIR AT SOUTH FACE OF PIER 5

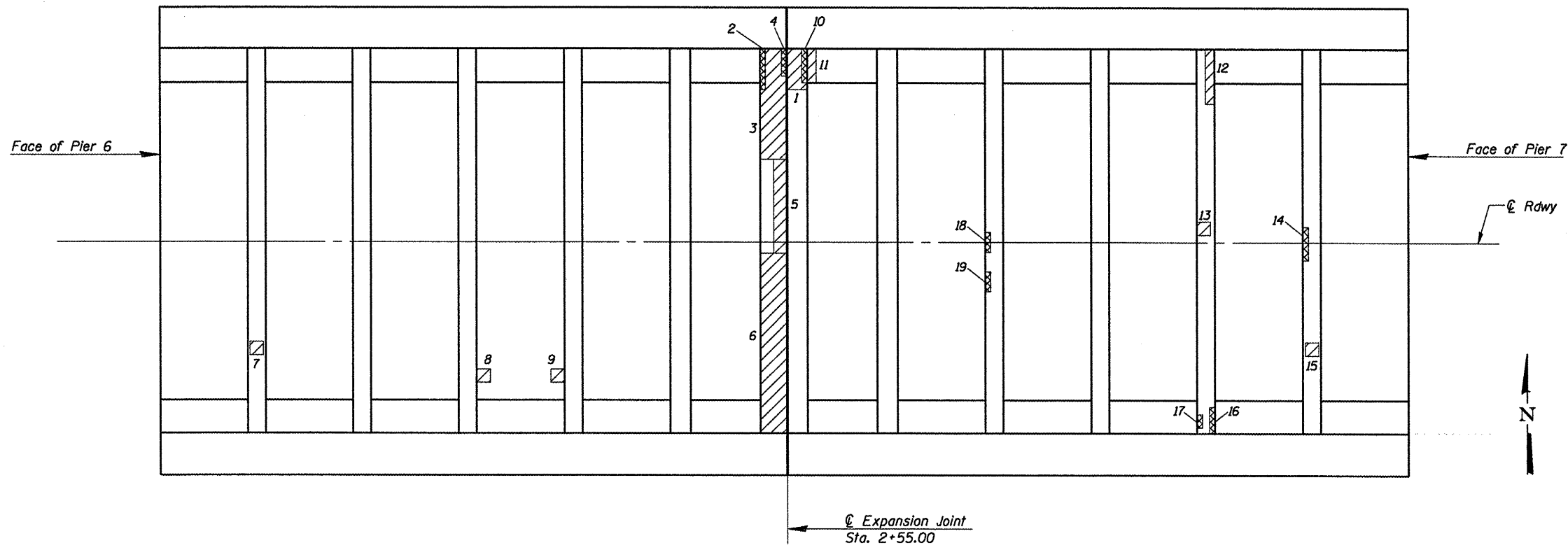
LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

STRUCTURE REPAIR DETAILS
SPANS 2-4
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2207	DESIGNED A.A.N.
	FILE = 2207structure.dgn	CHECKED M.D.C.
	DATE = 2/10/2011	DRAWN A.J.H.
		CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	15
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 6)

STRUCTURAL REPAIR OF CONCRETE SPAN 6			
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	3.00x1.33'	4.00
2	H	8.00x2.00'	16.00
3	V	3.00x1.00'	3.00
4	V	2.00x0.75'	1.50
5	H	7.00x1.00'	7.00
6	H	13.50x2.00'	27.00
7	H	1.00x1.00'	1.00
8	H	1.00x1.00'	1.00
9	H	1.00x1.00'	1.00
10	V	2.50x1.00'	2.50
11	H	2.50x0.67'	1.68
12	H	4.00x0.67'	2.68
13	V	1.00x1.00'	1.00
14	V	0.50x2.50'	1.25
15	H	1.00x1.00'	1.00
16	V	2.00x1.00'	2.00
17	V	1.00x1.00'	1.00
18	V	1.50x1.00'	1.50
19	V	1.50x0.50'	0.75
Subtotal of Vertical Repair Areas			14.50
Subtotal of Horizontal Repair Areas			62.36
Subtotal			76.86

LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

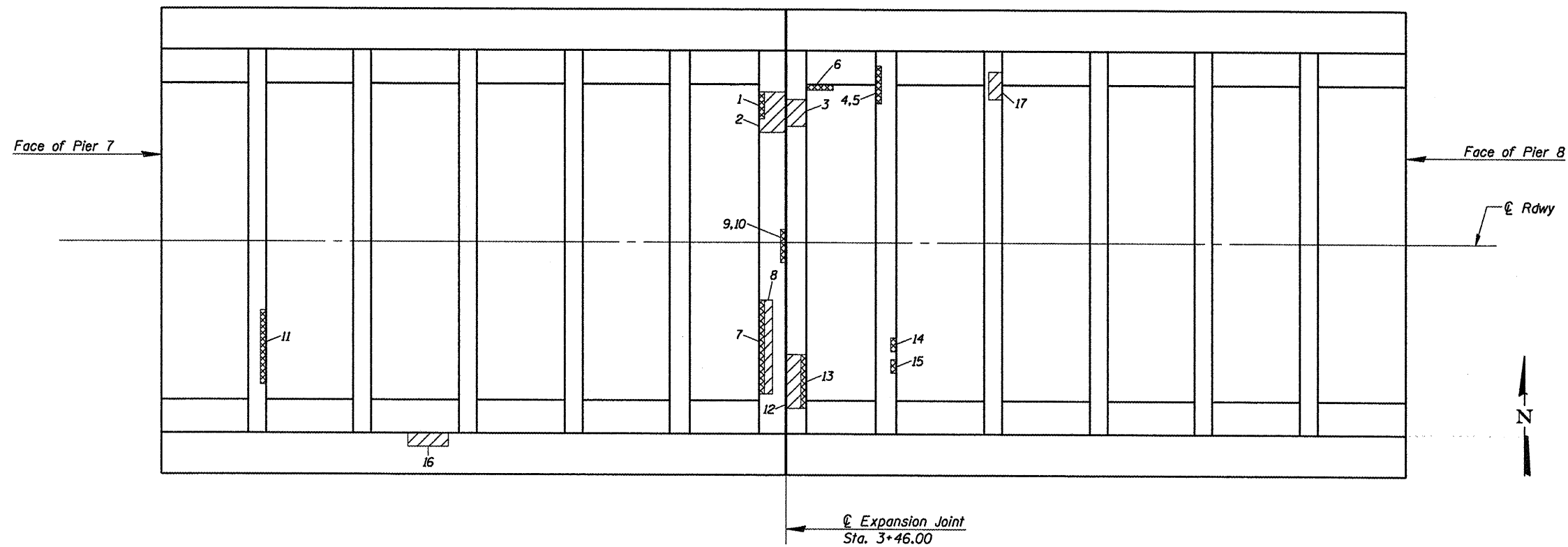
STRUCTURE REPAIR DETAILS
SPAN 6
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2207	DESIGNED	A.A.N.
FILE = 2207structure.dgn	CHECKED	M.D.C.
DATE = 2/10/2011	DRAWN	A.J.H.
	CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	16
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

93546

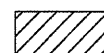



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 7)

**STRUCTURAL REPAIR OF CONCRETE
SPAN 7**

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	2.00x1.25'	2.50
2	H	3.00x2.00'	6.00
3	H	2.00x1.25'	2.50
4	V	1.00x2.75'	2.75
5	V	1.00x0.50'	0.50
6	V	1.00x2.00'	2.00
7	V	7.00x1.25'	8.75
8	H	7.00x1.00'	7.00
9	V	2.50x0.83'	2.08
10	H	2.50x0.33'	0.83
11	V	5.50x1.00'	5.50
12	H	4.00x1.25'	5.00
13	V	4.00x2.50'	10.00
14	V	1.00x1.00'	1.00
15	V	1.00x1.00'	1.00
16	V	3.00x1.00'	3.00
17	V	2.00x1.00'	2.00
Subtotal of Vertical Repair Areas			41.08
Subtotal of Horizontal Repair Areas			21.33
Subtotal			62.41

LEGEND

-  Indicates Area of Horizontal Structural Repair
-  Indicates Area of Vertical Structural Repair

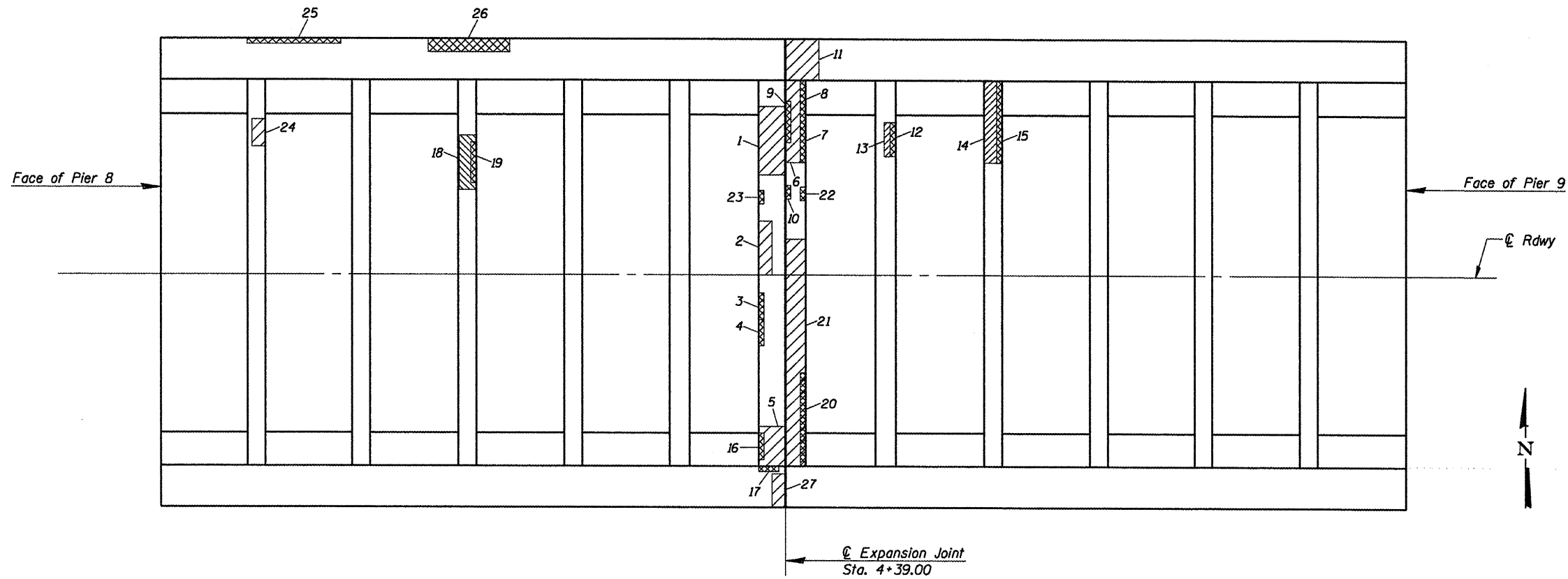
**STRUCTURE REPAIR DETAILS
SPAN 7
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2207	DESIGNED	A.A.N.
FILE = 2207structure.dgn	CHECKED	M.D.C.
DATE = 2/10/2011	DRAWN	A.J.H.
	CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	17
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



93546



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 8)

STRUCTURAL REPAIR OF CONCRETE			
SPAN 8			
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	5.00x2.00'	10.00
2	H	4.00x1.00'	4.00
3	V	2.00x1.00'	2.00
4	V	2.00x1.00'	2.00
5	H	3.00x2.00'	6.00
6	H	6.00x1.25'	7.50
7	V	6.00x1.25'	7.50
8	V	3.00x1.00'	3.00
9	V	3.00x1.00'	3.00
10	V	1.00x1.00'	1.00
11	H	2.50x3.50'	8.75
12	V	2.50x0.67'	1.68
13	H	2.50x0.83'	2.08
14	H	6.00x1.25'	7.50
15	V	6.00x1.00'	6.00
16	V	2.00x1.00'	2.00
17	V	1.50x1.50'	2.25
18	H	4.00x1.25'	5.00
19	V	3.00x0.75'	2.25
20	V	7.00x1.25'	8.75
21	H	17.00x1.25'	21.25
22	V	1.00x1.00'	1.00
23	V	1.00x1.00'	1.00
24	H	2.00x1.00'	2.00
25	V	7.00x1.00'	7.00
26	V	6.00x1.00'	6.00
27	H	2.50x1.00'	2.50
Subtotal of Vertical Repair Areas			56.43
Subtotal of Horizontal Repair Areas			76.58
Subtotal			133.01

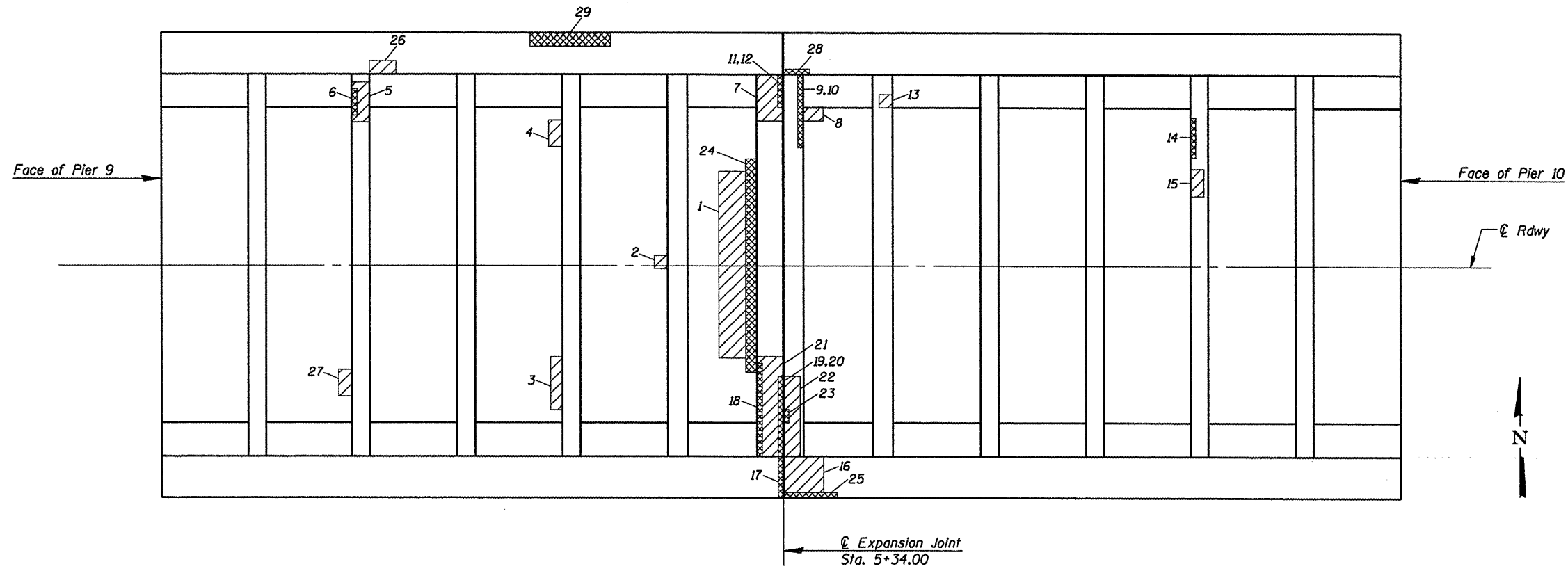
LEGEND

-  Indicates Area of Horizontal Structural Repair
-  Indicates Area of Vertical Structural Repair

STRUCTURE REPAIR DETAILS
SPAN 8
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207structure.dgn	CHECKED	M.D.C.
	DATE = 2/10/2011	DRAWN	A.J.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	18
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 9)

STRUCTURAL REPAIR OF CONCRETE			
SPAN 9			
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	14.00x2.00'	28.00
2	H	1.00x1.00'	1.00
3	H	4.00x0.83'	3.32
4	H	2.00x1.00'	2.00
5	H	3.00x1.33'	4.00
6	V	2.00x0.67'	1.34
7	H	3.50x2.00'	7.00
8	H	1.50x1.00'	1.50
9	V	5.50x1.25'	6.88
10	V	1.50x2.50'	3.75
11	V	2.00x0.83'	1.66
12	V	2.50x0.83'	2.08
13	H	1.00x1.00'	1.00
14	V	3.00x1.00'	3.00
15	H	2.00x1.00'	2.00
16	H	3.00x4.33'	13.00
17	V	1.00x4.33'	4.33
18	V	7.00x1.00'	7.00
19	V	2.50x1.00'	2.50
20	V	6.00x1.25'	7.50
21	H	7.50x2.00'	15.00
22	H	6.00x1.25'	7.50
23	V	1.00x1.00'	1.00
24	H	16.00x0.83'	13.28
25	V	2.00x4.00'	8.00
26	H	2.00x1.00'	2.00
27	H	2.00x1.00'	2.00
28	V	2.00x2.00'	4.00
29	V	6.00x1.00'	6.00
Subtotal of Vertical Repair Areas			59.04
Subtotal of Horizontal Repair Areas			102.60
Subtotal			161.64

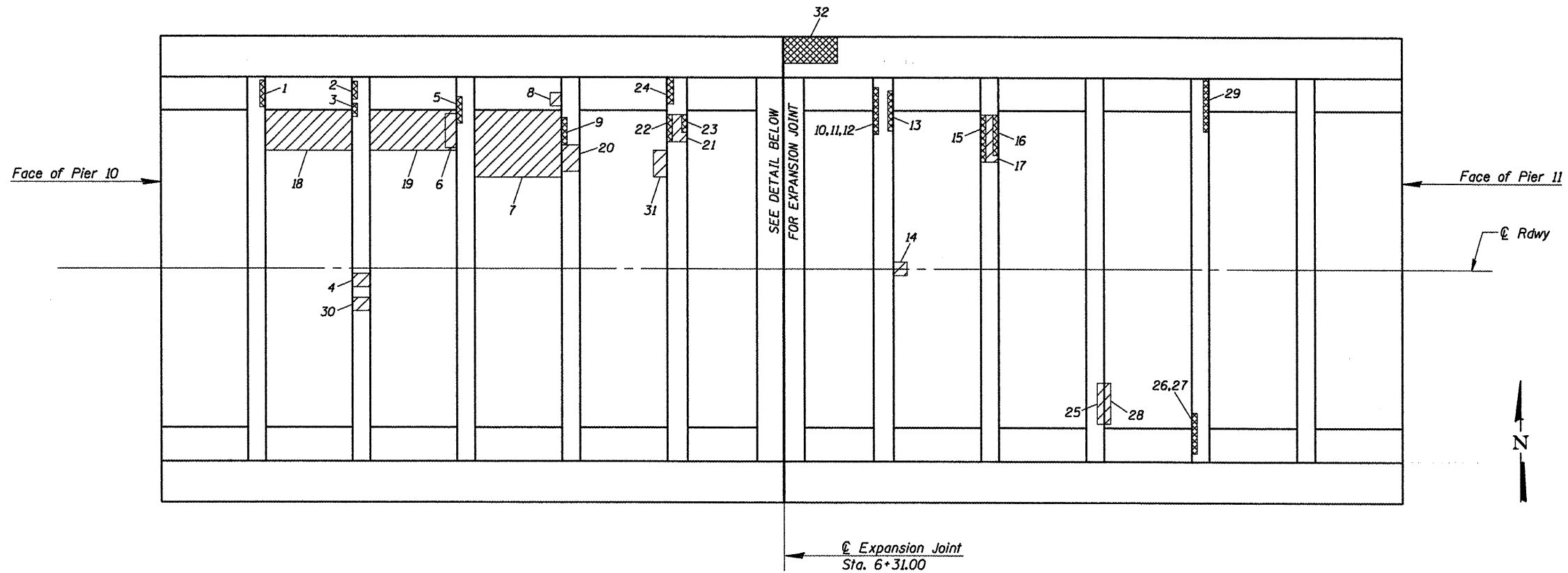
LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

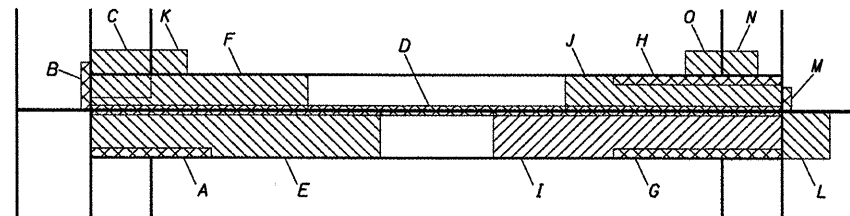
STRUCTURE REPAIR DETAILS
SPAN 9
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Civil and Structural Engineering	Cummins Engineering Corporation	JOB = 2207	DESIGNED	A.A.N.
		FILE = 2207structure.dgn	CHECKED	M.D.C.
		DATE = 2/10/2011	DRAWN	A.J.H.
			CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	19
CITY OF SPRINGFIELD		CONTRACT NO. 93546		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 10)



PLAN AT EXPANSION JOINT

LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

STRUCTURAL REPAIR OF CONCRETE
SPAN 10

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	2.00'x1.00'	2.00
2	H	2.50'x1.33'	3.33
3	V	1.00'x1.00'	1.00
4	H	1.00'x1.33'	1.33
5	V	2.00'x1.00'	2.00
6	H	2.50'x0.83'	2.08
7	H	5.00'x5.00'	25.00
8	H	1.00'x0.83'	0.83
9	V	2.00'x2.00'	4.00
10	V	1.00'x1.00'	1.00
11	V	3.50'x1.00'	3.50
12	V	1.00'x1.00'	1.00
13	V	3.00'x1.00'	3.00
14	H	1.00'x1.00'	1.00
15	V	3.50'x0.50'	1.75
16	V	3.00'x1.00'	3.00
17	H	3.50'x1.33'	4.66
18	H	3.00'x5.00'	15.00
19	H	3.00'x5.00'	15.00
20	H	2.00'x1.33'	2.66
21	H	2.00'x1.33'	2.66
22	V	2.00'x1.33'	2.66
23	V	1.00'x1.33'	1.33
24	H	2.00'x0.50'	1.00
25	H	2.00'x1.00'	2.00
26	V	3.00'x1.00'	3.00
27	V	1.00'x1.00'	1.00
28	V	3.00'x1.00'	3.00
29	V	4.00'x2.00'	8.00
30	H	1.33'x1.00'	1.33
31	H	2.00'x1.00'	2.00
32	V	2.00'x4.00'	8.00
Subtotal of Vertical Repair Areas			49.24
Subtotal of Horizontal Repair Areas			79.88
Subtotal			129.12

STRUCTURAL REPAIR OF CONCRETE
SPAN 10

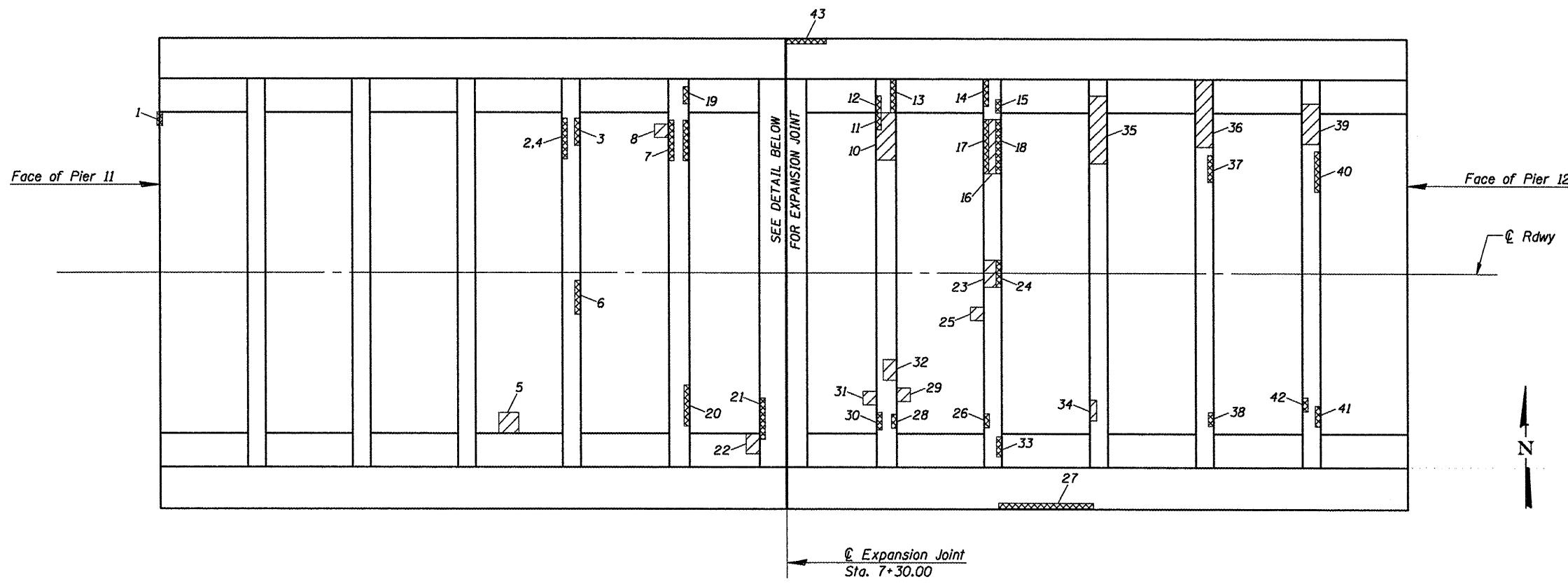
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	V	2.67'x5.00'	13.35
B	V	2.00'x1.50'	3.00
C	V	4.50'x3.83'	17.24
D	V	28.67'x0.75'	21.50
E	H	12.00'x2.00'	24.00
F	H	9.00'x1.33'	11.97
G	V	7.00'x1.25'	8.75
H	V	7.00'x1.25'	8.75
I	V	2.50'x1.00'	2.50
J	H	12.00'x2.00'	24.00
K	H	9.00'x1.33'	11.97
L	H	2.00'x2.00'	4.00
M	V	1.00'x1.00'	1.00
N	H	1.50'x1.00'	1.50
O	H	1.50'x1.00'	1.50
Subtotal of Vertical Repair Areas			76.09
Subtotal of Horizontal Repair Areas			78.94
Subtotal			155.03

STRUCTURE REPAIR DETAILS
SPAN 10
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2207	DESIGNED A.A.N.
	FILE = 2207structure.dgn	CHECKED M.D.C.
	DATE = 2/10/2011	DRAWN A.J.H.
		CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	20
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

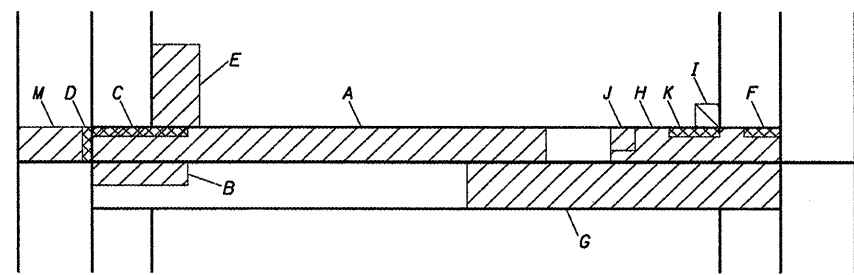
93546



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 11)

STRUCTURAL REPAIR OF CONCRETE
SPAN 11

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	1.00x1.00'	1.00
2	V	2.00x1.00'	2.00
3	V	2.00x1.50'	3.00
4	H	3.00x0.50'	1.50
5	H	1.50x1.50'	2.25
6	V	2.50x0.50'	1.25
7	V	1.33x3.00'	4.00
8	H	1.00x1.00'	1.00
9	V	3.00x0.50'	1.50
10	H	3.50x1.33'	4.66
11	V	1.00x1.25'	1.25
12	V	1.00x1.00'	1.00
13	V	2.50x0.50'	1.25
14	V	2.00x1.00'	2.00
15	V	1.00x1.00'	1.00
16	H	4.00x1.33'	5.32
17	V	4.00x1.00'	4.00
18	V	4.00x1.00'	4.00
19	V	1.00x1.50'	1.50
20	V	3.00x1.00'	3.00
21	V	3.00x1.00'	3.00
22	H	1.00x1.50'	1.50
23	H	2.00x1.33'	2.67
24	V	2.00x0.50'	1.00
25	H	1.00x1.00'	1.00
26	V	1.00x1.00'	1.00
27	V	7.00x1.25'	8.75
28	V	1.00x1.00'	1.00
29	H	1.00x1.00'	1.00
30	V	1.00x1.25'	1.25
31	H	1.00x1.00'	1.00
32	H	1.50x1.00'	1.50
33	V	1.50x1.00'	1.50
34	H	1.50x0.50'	0.75
35	H	5.00x1.33'	6.65
36	H	5.00x1.33'	6.65
37	V	2.00x1.00'	2.00
38	V	1.00x1.00'	1.00
39	H	3.00x0.67'	2.01
40	V	3.00x1.00'	3.00
41	V	1.50x1.00'	1.50
42	V	1.00x1.00'	1.00
43	V	1.50x3.00'	4.50
Subtotal of Vertical Repair Areas			62.25
Subtotal of Horizontal Repair Areas			39.46
Subtotal			101.71



PLAN AT EXPANSION JOINT

STRUCTURAL REPAIR OF CONCRETE
SPAN 11

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	H	19.00x1.33'	25.27
B	H	4.00x1.00'	4.00
C	V	4.00x2.67'	10.68
D	V	2.00x1.00'	2.00
E	H	3.50x2.00'	7.00
F	V	1.00x1.50'	1.50
G	H	13.00x1.33'	17.29
H	H	8.00x1.33'	10.64
I	H	1.00x1.00'	1.00
J	H	1.00x1.00'	1.00
K	V	4.50x1.25'	5.63
L	V	1.50x0.67'	1.00
M	H	3.00x1.00'	3.00
Subtotal of Vertical Repair Areas			20.81
Subtotal of Horizontal Repair Areas			69.20
Subtotal			90.01

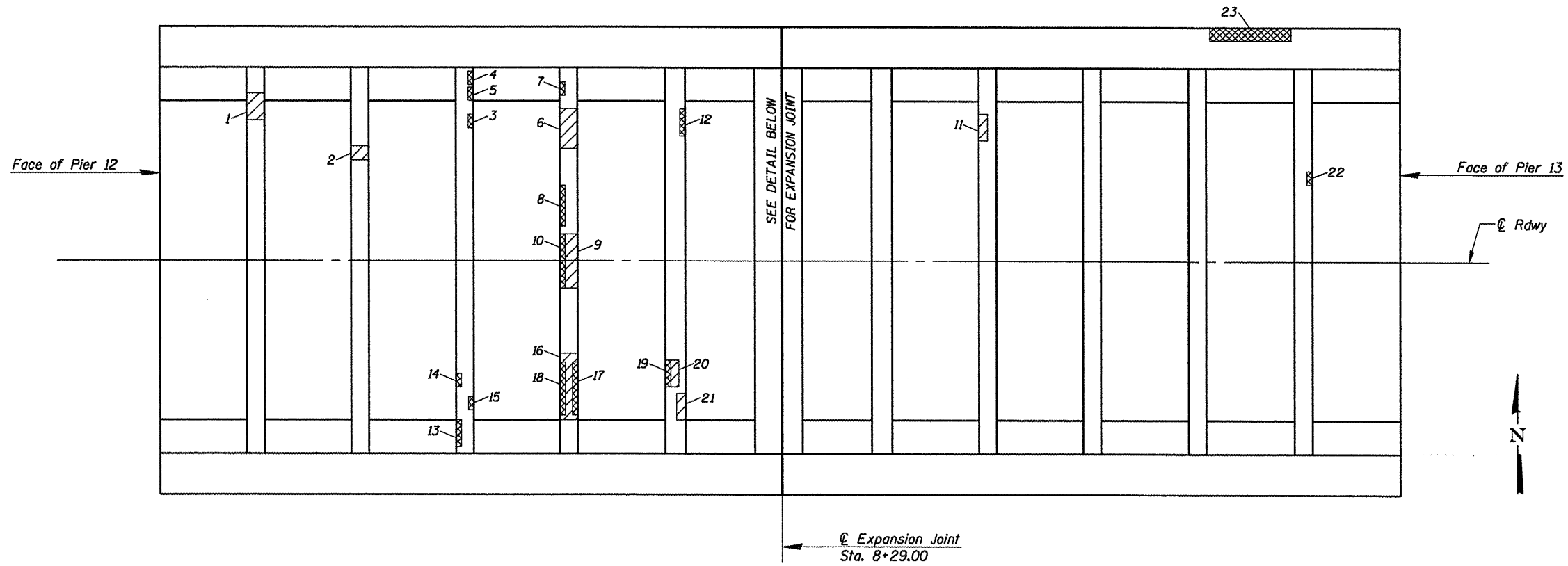
LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

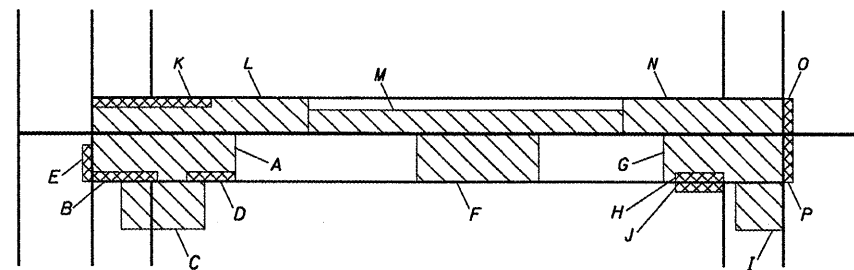
STRUCTURE REPAIR DETAILS
SPAN 11
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207structure.dgn	CHECKED	M.D.C.
	DATE = 2/10/2011	DRAWN	A.J.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	21
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 12)



PLAN AT EXPANSION JOINT

LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

STRUCTURAL REPAIR OF CONCRETE
SPAN 12

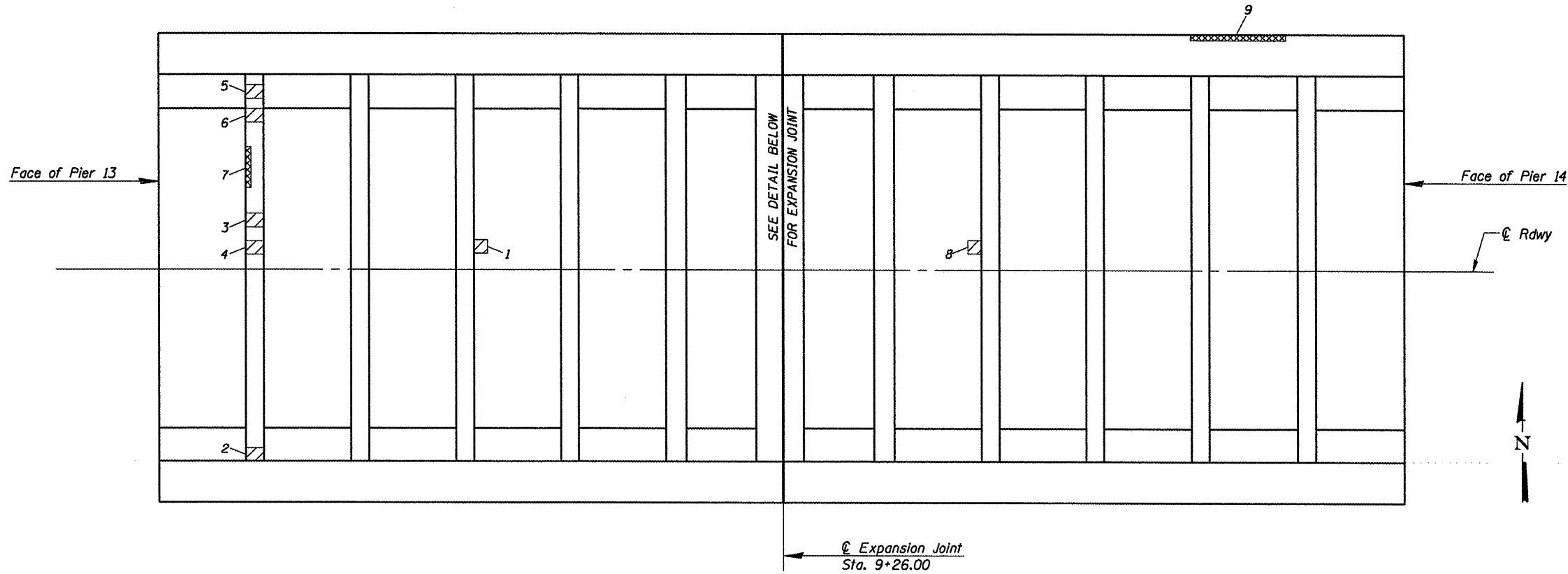
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	2.00x1.33'	2.66
2	H	1.00x1.33'	1.33
3	V	1.00x1.00'	1.00
4	V	2.00x1.00'	2.00
5	V	1.00x1.00'	1.00
6	H	3.00x1.33'	4.00
7	V	1.00x1.00'	1.00
8	V	3.00x1.00'	3.00
9	H	4.00x1.33'	5.32
10	V	4.00x0.50'	2.00
11	H	2.00x0.67'	1.34
12	V	2.00x1.00'	2.00
13	V	2.00x1.00'	2.00
14	V	1.00x1.00'	1.00
15	V	1.00x1.00'	1.00
16	H	5.00x1.33'	6.65
17	V	4.00x1.00'	4.00
18	V	4.00x1.00'	4.00
19	H	2.00x1.00'	2.00
20	V	2.00x0.67'	1.34
21	H	2.00x0.67'	1.34
22	V	1.00x1.00'	1.00
23	V	6.00x1.00'	6.00
Subtotal of Vertical Repair Areas			32.34
Subtotal of Horizontal Repair Areas			24.64
Subtotal			56.98

STRUCTURAL REPAIR OF CONCRETE
SPAN 12

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	H	6.00x1.33'	7.98
B	V	2.75x2.75'	7.56
C	H	2.00x3.50'	7.00
D	V	2.00x2.75'	5.50
E	V	1.50x1.50'	2.25
F	H	5.00x1.33'	6.65
G	H	5.00x1.33'	6.65
H	V	2.00x1.00'	2.00
I	H	2.00x2.00'	4.00
J	V	2.00x2.00'	4.00
K	V	5.00x1.00'	5.00
L	H	9.00x2.00'	18.00
M	H	13.00x1.00'	13.00
N	H	7.00x2.00'	14.00
O	V	1.00x1.50'	1.50
P	V	1.50x1.50'	2.25
Subtotal of Vertical Repair Areas			30.06
Subtotal of Horizontal Repair Areas			77.28
Subtotal			107.34

STRUCTURE REPAIR DETAILS

SPAN 12
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



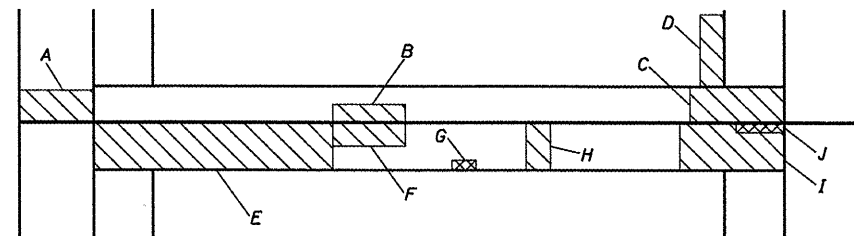
**STRUCTURAL REPAIR OF CONCRETE
SPAN 13**

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	1.00'x1.00'	1.00
2	H	1.00'x1.00'	1.00
3	H	1.00'x1.00'	1.00
4	H	1.00'x1.00'	1.00
5	H	1.00'x1.00'	1.00
6	H	1.00'x1.00'	1.00
7	V	3.00'x1.00'	3.00
8	H	1.00'x1.00'	1.00
9	V	7.00'x1.00'	7.00
Subtotal of Vertical Repair Areas			10.00
Subtotal of Horizontal Repair Areas			7.00
Subtotal			17.00

**STRUCTURAL REPAIR OF CONCRETE
SPAN 13**

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	H	1.00'x1.33'	1.33
B	H	3.00'x0.75'	2.25
C	H	4.00'x1.33'	5.32
D	H	3.00'x1.00'	3.00
E	H	10.00'x2.00'	20.00
F	H	3.00'x1.00'	3.00
G	V	1.00'x1.00'	1.00
H	H	1.00'x2.00'	2.00
I	H	0.50'x2.00'	1.00
J	V	2.00'x0.75'	1.50
Subtotal of Vertical Repair Areas			2.50
Subtotal of Horizontal Repair Areas			37.90
Subtotal			40.40

STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 13)



PLAN AT EXPANSION JOINT

LEGEND

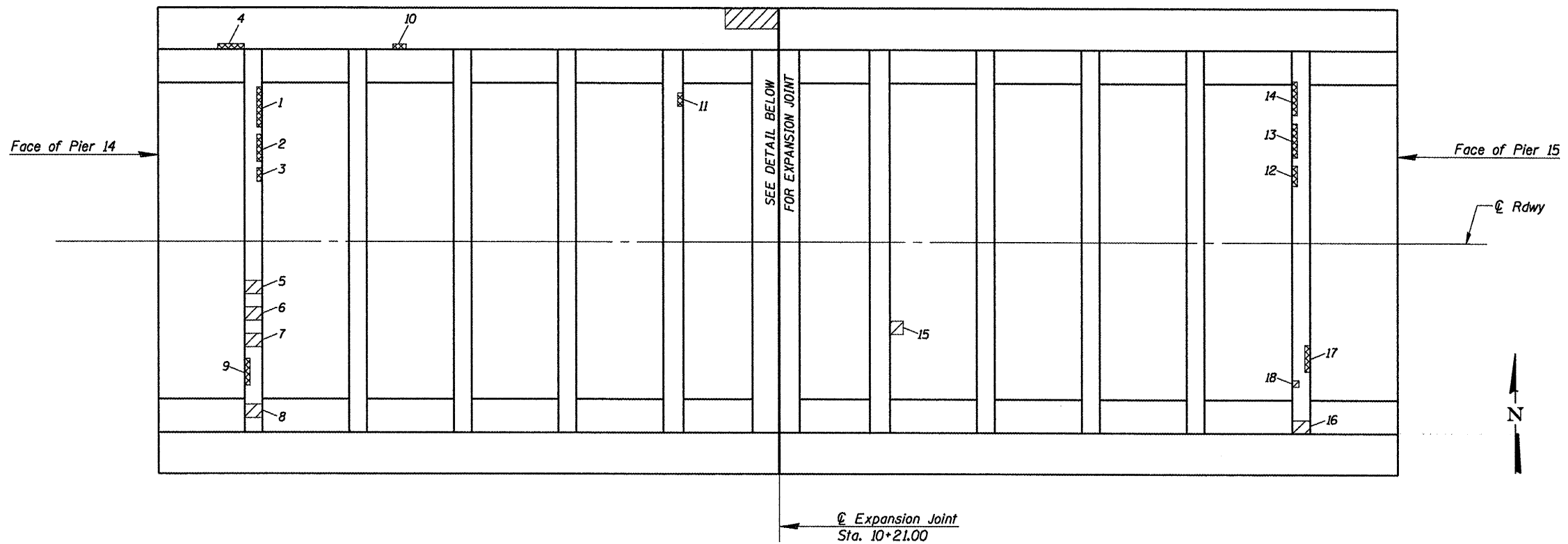
- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

**STRUCTURE REPAIR DETAILS
SPAN 13
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

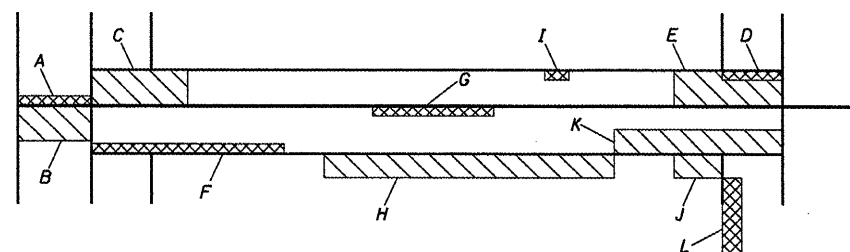
CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2207	DESIGNED	A.A.M.
FILE = 2207structure.dgn	CHECKED	M.D.C.
DATE = 2/10/2011	DRAWN	A.J.H.
	CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	23
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	93546	

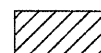


STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 14)



PLAN AT EXPANSION JOINT

LEGEND



Indicates Area of Horizontal Structural Repair



Indicates Area of Vertical Structural Repair

STRUCTURAL REPAIR OF CONCRETE

SPAN 14

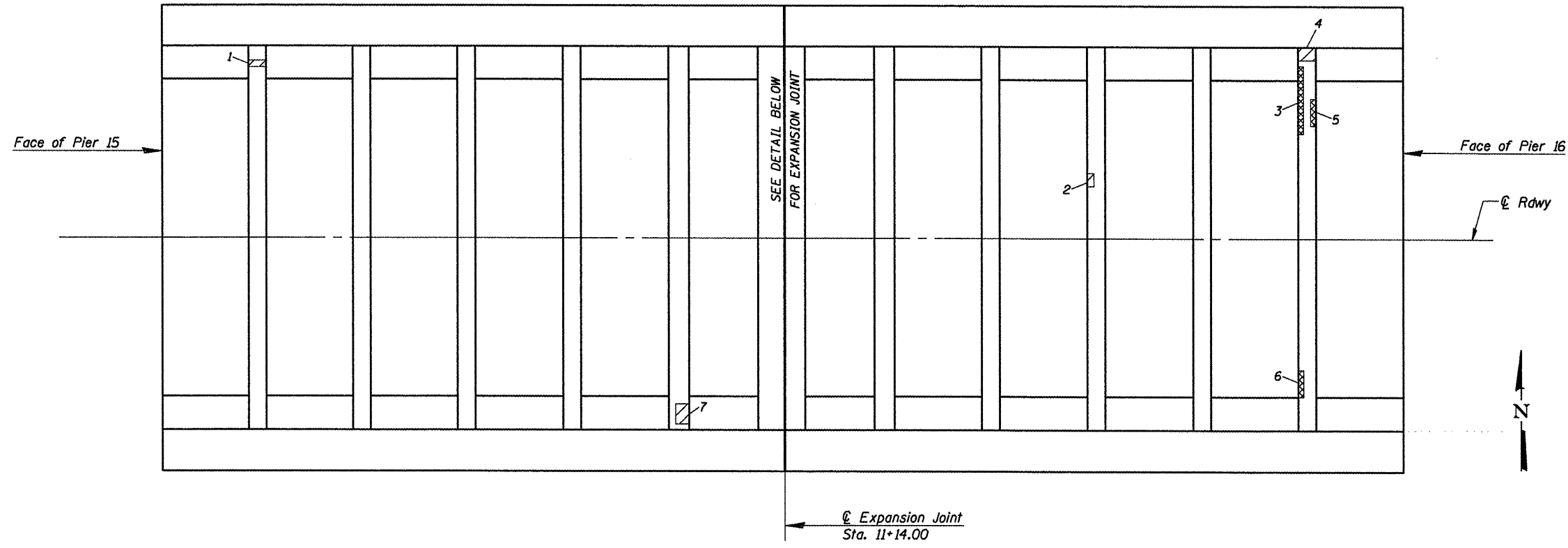
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	3.00'x1.00'	3.00
2	V	2.00'x1.00'	2.00
3	V	1.00'x1.00'	1.00
4	V	2.00'x1.00'	2.00
5	H	1.00'x1.00'	1.00
6	H	1.00'x1.00'	1.00
7	H	1.00'x1.00'	1.00
8	H	1.00'x1.00'	1.00
9	V	2.00'x1.00'	2.00
10	V	1.00'x1.00'	1.00
11	V	1.00'x1.00'	1.00
12	V	1.50'x1.00'	1.50
13	V	2.50'x1.00'	2.50
14	V	2.50'x1.00'	2.50
15	H	1.00'x1.00'	1.00
16	H	1.00'x1.00'	1.00
17	V	2.00'x1.00'	2.00
18	H	0.50'x0.50'	0.25
19	V	4.00'x1.50'	6.00
Subtotal of Vertical Repair Areas			26.50
Subtotal of Horizontal Repair Areas			6.25
Subtotal			32.75

STRUCTURAL REPAIR OF CONCRETE

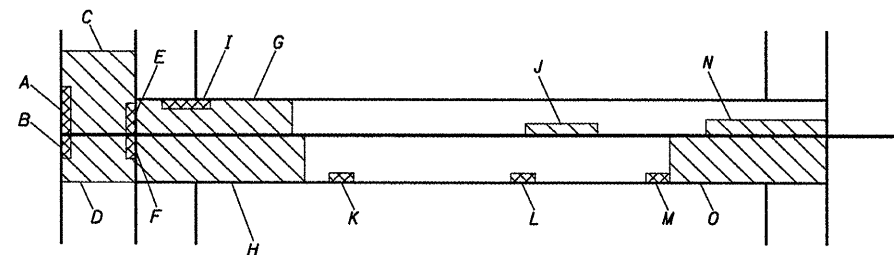
SPAN 14

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	V	1.00'x1.50'	1.50
B	H	1.50'x3.00'	4.50
C	H	4.00'x1.33'	5.32
D	V	2.50'x0.50'	1.25
E	H	4.50'x1.33'	6.00
F	V	8.00'x1.17'	9.36
G	V	5.00'x0.75'	3.75
H	H	12.00'x1.00'	12.00
I	V	1.00'x1.00'	1.00
J	H	2.00'x1.00'	2.00
K	H	7.00'x1.00'	7.00
L	V	4.00'x1.00'	4.00
Subtotal of Vertical Repair Areas			20.86
Subtotal of Horizontal Repair Areas			36.82
Subtotal			57.68

STRUCTURE REPAIR DETAILS
SPAN 14
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 15)



PLAN AT EXPANSION JOINT

LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

STRUCTURAL REPAIR OF CONCRETE
SPAN 15

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	1.00'x0.50'	0.50
2	H	1.00'x0.50'	0.50
3	V	14.00'x1.00'	14.00
4	H	1.00'x1.25'	1.25
5	V	2.00'x1.00'	2.00
6	V	12.00'x1.00'	12.00
7	V	1.00'x1.50'	1.50
Subtotal of Vertical Repair Areas			29.50
Subtotal of Horizontal Repair Areas			2.25
Subtotal			31.75

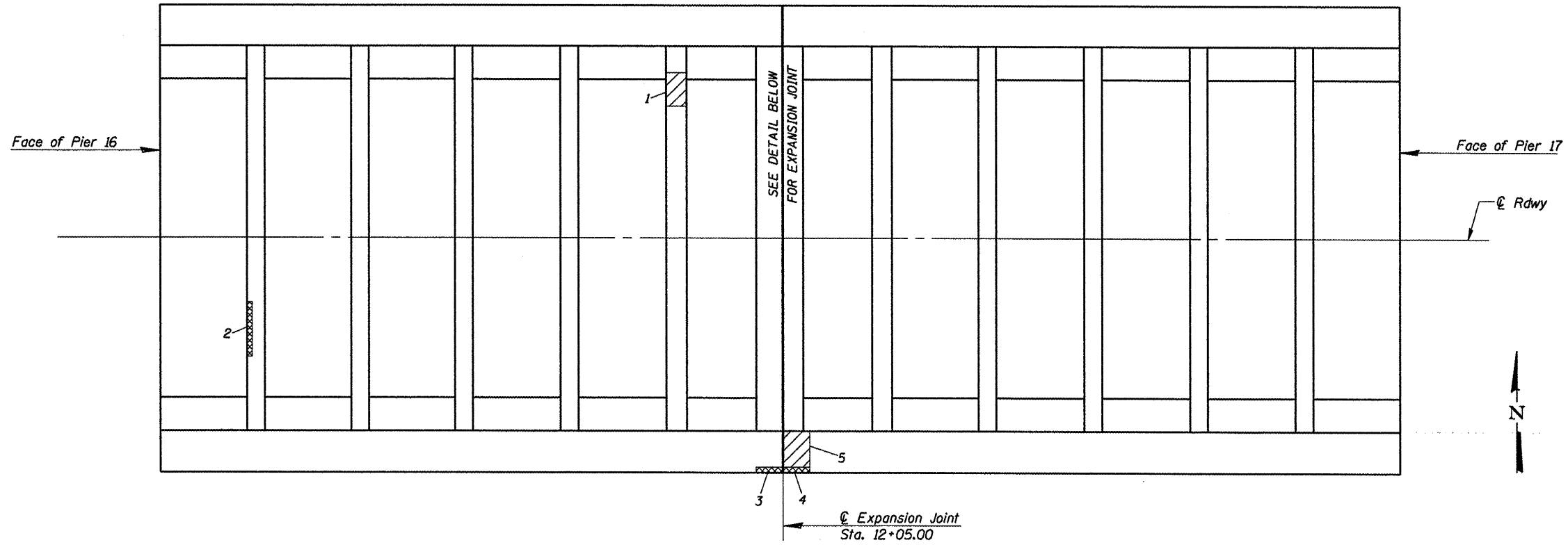
STRUCTURAL REPAIR OF CONCRETE
SPAN 15

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	V	3.50'x2.00'	7.00
B	V	2.50'x1.00'	2.50
C	H	3.50'x1.33'	17.96
D	H	2.00'x1.33'	2.66
E	V	2.00'x1.50'	3.00
F	V	1.00'x1.50'	1.50
G	H	6.50'x1.33'	8.65
H	H	7.00'x2.00'	14.00
I	V	2.00'x1.25'	2.50
J	H	3.00'x0.50'	1.50
K	V	1.00'x1.00'	1.00
L	V	1.00'x1.00'	1.00
M	V	1.00'x1.00'	1.00
N	H	5.00'x0.67'	3.35
O	H	6.50'x2.00'	13.00
Subtotal of Vertical Repair Areas			19.50
Subtotal of Horizontal Repair Areas			61.12
Subtotal			80.62

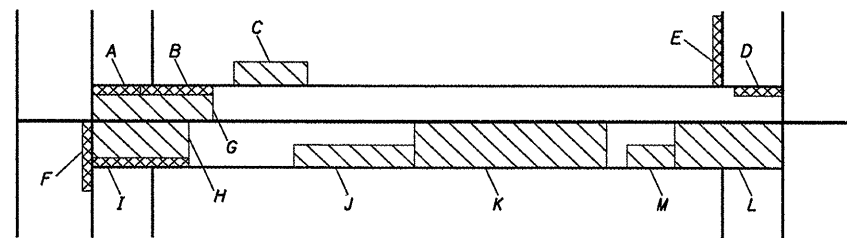
STRUCTURE REPAIR DETAILS
SPAN 15
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207structure.dgn	CHECKED	M.D.C.
	DATE = 2/10/2011	DRAWN	A.J.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	25
CITY OF SPRINGFIELD		CONTRACT NO. 93546		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Span 16)



PLAN AT EXPANSION JOINT

LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

**STRUCTURAL REPAIR OF CONCRETE
SPAN 16**

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	2.50'x1.33'	3.33
2	V	4.00'x1.00'	4.00
3	V	1.00'x2.00'	2.00
4	V	2.00'x2.00'	4.00
5	H	3.50'x1.33'	4.66
Subtotal of Vertical Repair Areas			10.00
Subtotal of Horizontal Repair Areas			7.99
Subtotal			17.99

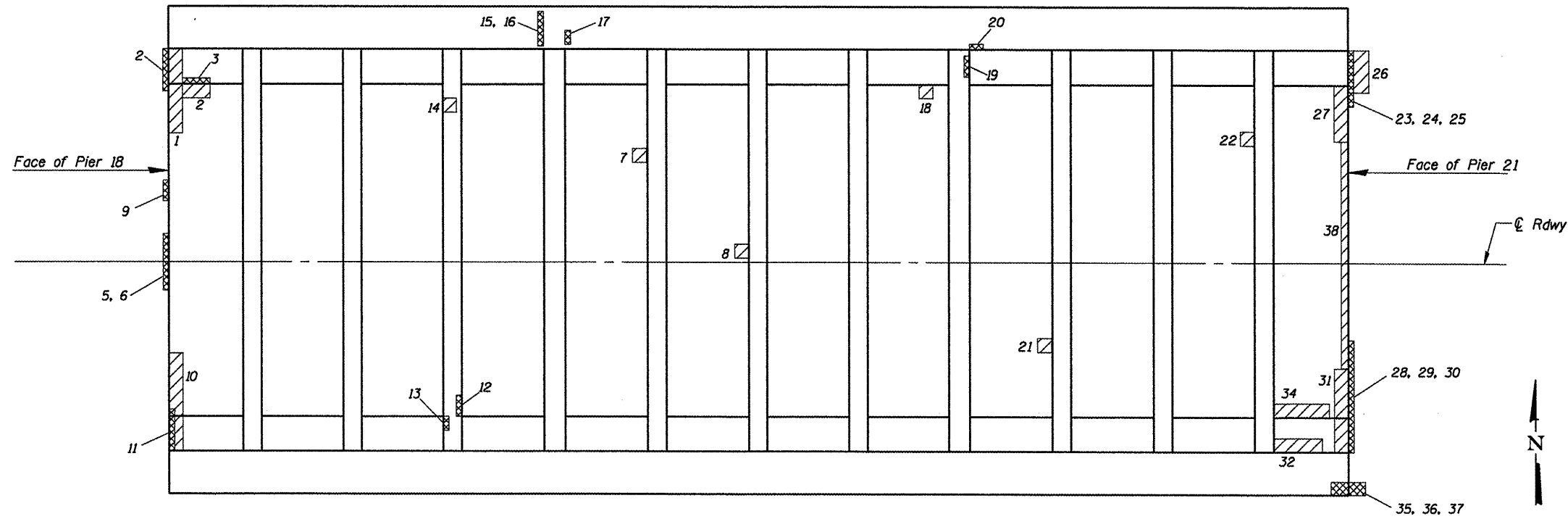
**STRUCTURAL REPAIR OF CONCRETE
SPAN 16**

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
A	V	2.00'x1.00'	2.00
B	V	1.25'x3.00'	3.75
C	H	3.00'x1.00'	3.00
D	V	2.00'x1.00'	2.00
E	V	3.00'x1.00'	3.00
F	V	3.00'x1.50'	4.50
G	H	5.00'x1.33'	6.65
H	H	4.00'x2.00'	8.00
I	V	4.00'x0.50'	2.00
J	H	5.00'x1.00'	5.00
K	H	8.00'x2.00'	16.00
L	H	4.50'x2.00'	9.00
M	H	2.00'x1.00'	2.00
Subtotal of Vertical Repair Areas			17.25
Subtotal of Horizontal Repair Areas			49.65
Subtotal			66.90

**STRUCTURE REPAIR DETAILS
SPAN 16
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207structure.dgn	CHECKED	M.D.C.
	DATE = 2/10/2011	DRAWN	A.J.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	26
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		



STRUCTURE REPAIR PLAN AT FLOOR BEAMS
(Spans 18-20)

Note:
Repairs 35 and 36 are located on the column at the south side of Pier 21.

STRUCTURAL REPAIR OF CONCRETE			
SPAN 18-20			
Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	H	6.00x1.00'	6.00
2	V	3.00x1.00'	3.00
3	H	2.00x1.00'	2.00
4	V	2.00x1.00'	2.00
5	V	1.50x3.00'	4.50
6	V	1.00x4.00'	4.00
7	H	1.00x1.00'	1.00
8	H	1.00x1.00'	1.00
9	V	0.50x1.50'	0.75
10	H	7.00x1.00'	7.00
11	V	0.50x3.00'	1.50
12	V	1.50x1.00'	1.50
13	V	1.00x1.00'	1.00
14	H	1.00x1.00'	1.00
15	V	0.50x2.50'	1.25
16	V	1.00x1.00'	1.00
17	V	1.00x1.00'	1.00
18	H	1.00x1.00'	1.00
19	V	1.50x1.00'	1.50
20	V	1.00x1.00'	1.00
21	H	1.00x1.00'	1.00
22	H	1.00x1.00'	1.00
23	V	4.00x3.00'	12.00
24	V	2.00x1.50'	3.00
25	V	3.00x1.00'	3.00
26	H	3.00x1.50'	4.50
27	H	4.00x1.00'	4.00
28	V	(5.00x4.00')/2*	10.00
29	V	3.00x4.00'	12.00
30	V	3.00x8.00'	24.00
31	H	0.67x3.50'	2.35
32	H	1.00x3.50'	3.50
33	H	6.00x1.00'	6.00
34	H	1.00x4.00'	4.00
35	V	2.00x2.00'	4.00
36	V	1.00x4.00'	4.00
37	V	1.00x3.00'	3.00
38	H	0.50x24.00'	12.00
Subtotal of Vertical Repair Areas			99.00
Subtotal of Horizontal Repair Areas			57.35
Subtotal			156.35

* Indicates a triangular repair area

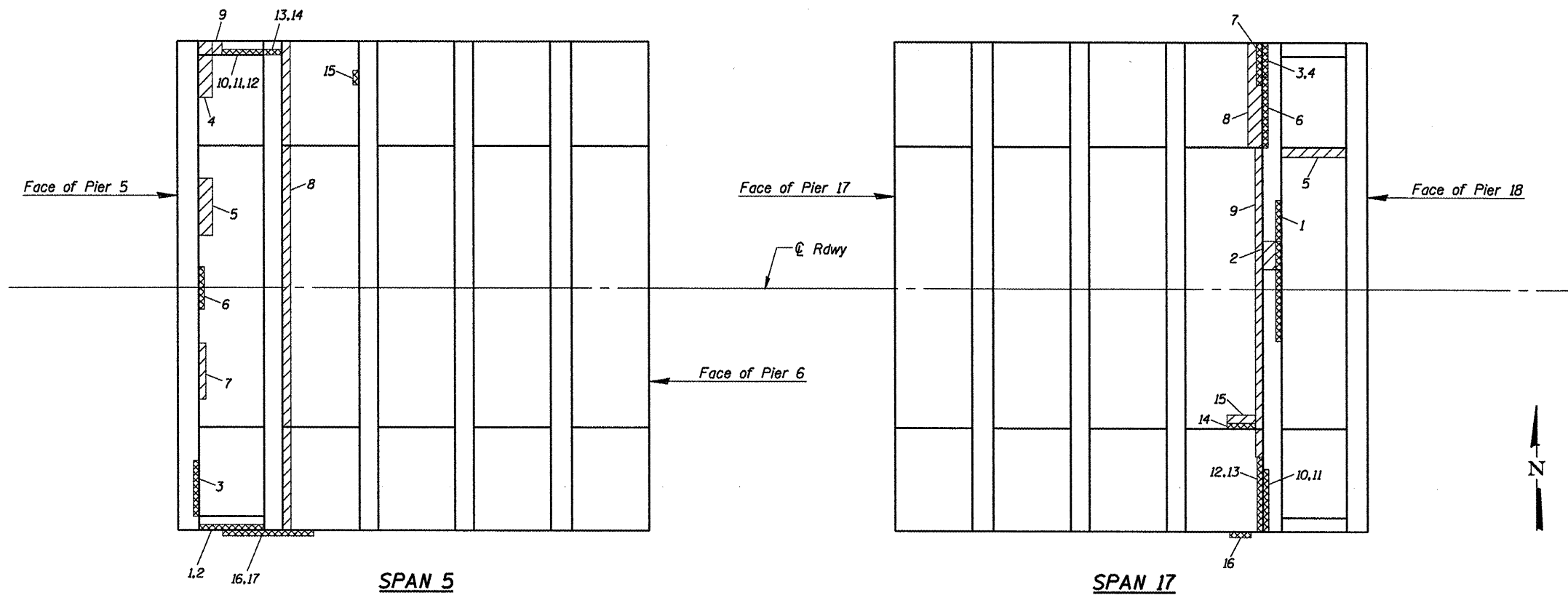
LEGEND

- Indicates Area of Horizontal Structural Repair
- Indicates Area of Vertical Structural Repair

STRUCTURE REPAIR DETAILS
SPANS 18-20
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207structure.dgn	CHECKED	M.D.C.
	DATE = 2/10/2011	DRAWN	A.J.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	27
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		



STRUCTURE REPAIR PLAN AT FLOOR BEAMS

STRUCTURAL REPAIR OF CONCRETE
SPAN 17



Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	10.00x1.00'	10.00
2	H	2.00x1.33'	2.66
3	V	4.00x0.67'	2.68
4	V	4.00x0.50'	2.00
5	H	0.67x4.50'	3.00
6	V	(5.00x3.00)/2*	7.50
7	V	3.00x1.00'	3.00
8	H	1.00x8.00'	8.00
9	H	0.50x22.00'	11.00
10	V	1.00x4.50'	4.50
11	V	1.00x2.00'	2.00
12	V	3.00x1.00'	3.00
13	H	7.00x1.00'	7.00
14	V	0.50x2.00'	1.00
15	H	1.00x2.00'	2.00
16	V	1.50x1.50'	2.25
Subtotal of Vertical Repair Areas			37.93
Subtotal of Horizontal Repair Areas			33.66
Subtotal			71.59

STRUCTURAL REPAIR OF CONCRETE
SPAN 5

Patch No.	Vert. or Horiz.	Dimensions	Area (SQ. FT.)
1	V	2.75x8.00'	22.00
2	V	0.50x3.00'	1.50
3	V	(3.00x3.00)/2*	4.50
4	H	4.00x1.00'	4.00
5	H	4.00x1.00'	4.00
6	H	4.50x1.00'	4.50
7	H	0.50x4.00'	2.00
8	H	1.00x31.00'	31.00
9	V	1.00x7.00'	7.00
10	V	1.00x4.00'	4.00
11	V	2.00x5.50'	11.00
12	V	1.00x7.00'	7.00
13	V	1.00x3.50'	3.50
14	V	1.00x3.00'	3.00
15	V	1.00x1.00'	1.00
16	V	6.50x2.00'	13.00
17	V	2.00x1.00'	2.00
Subtotal of Vertical Repair Areas			79.50
Subtotal of Horizontal Repair Areas			45.50
Subtotal			125.00

* Indicates a triangular repair area

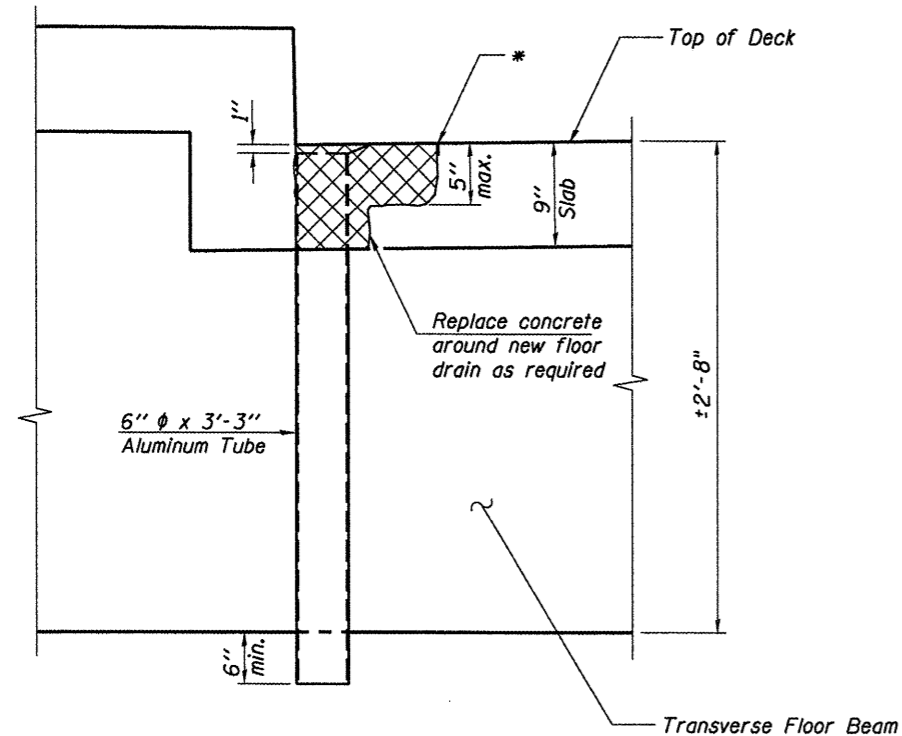
LEGEND

-  Indicates Area of Horizontal Structural Repair
-  Indicates Area of Vertical Structural Repair

STRUCTURE REPAIR DETAILS
SPANS 5 & 17
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

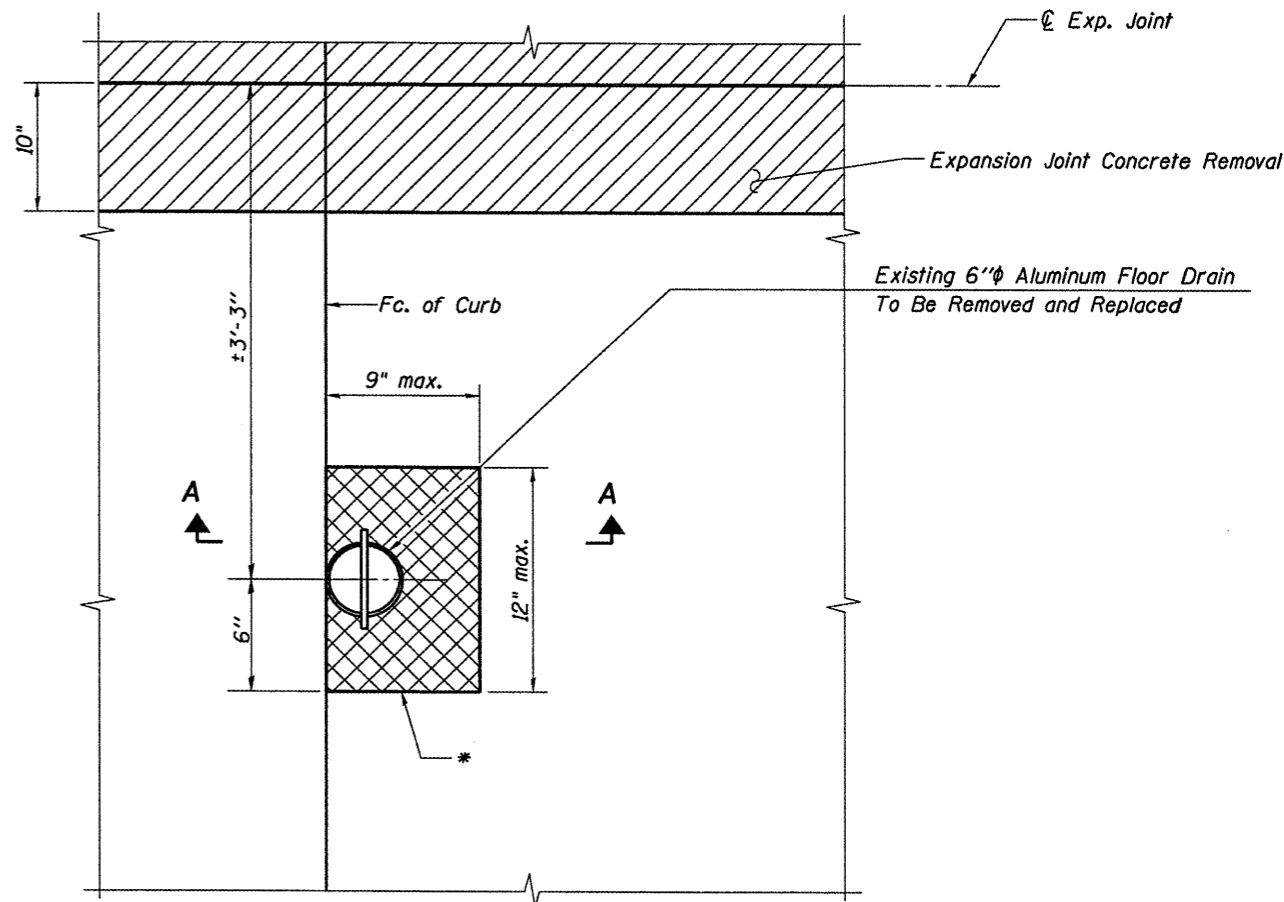
CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2207	DESIGNED	A.A.N.
	FILE = 2207vault.dgn	CHECKED	M.D.C.
	DATE = 2/10/2011	DRAWN	A.J.H.
		CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	28
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		

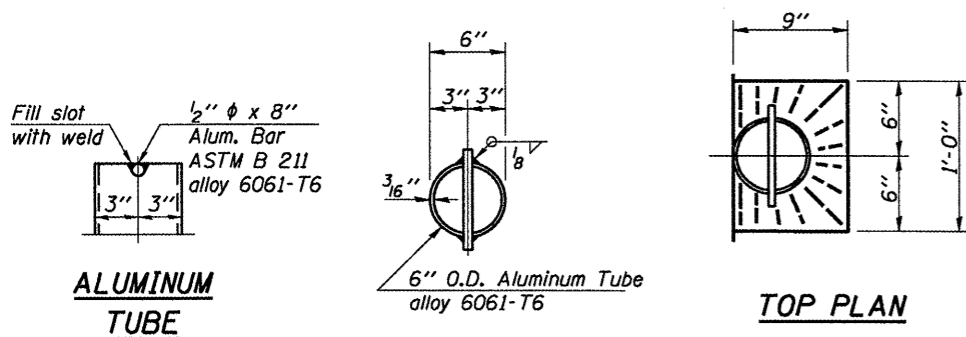


SECTION A-A

*Sawcut perimeter 1" deep
 Note: Cross-hatched area indicates area of concrete removal for floor drain replacement.



PLAN AT EXISTING FLOOR DRAINS
 (To be Removed and Replaced at 22 Locations)



TOP PLAN
 (Showing Aluminum Tube)
PROPOSED FLOOR DRAINS
 (22 Required)

BILL OF MATERIAL

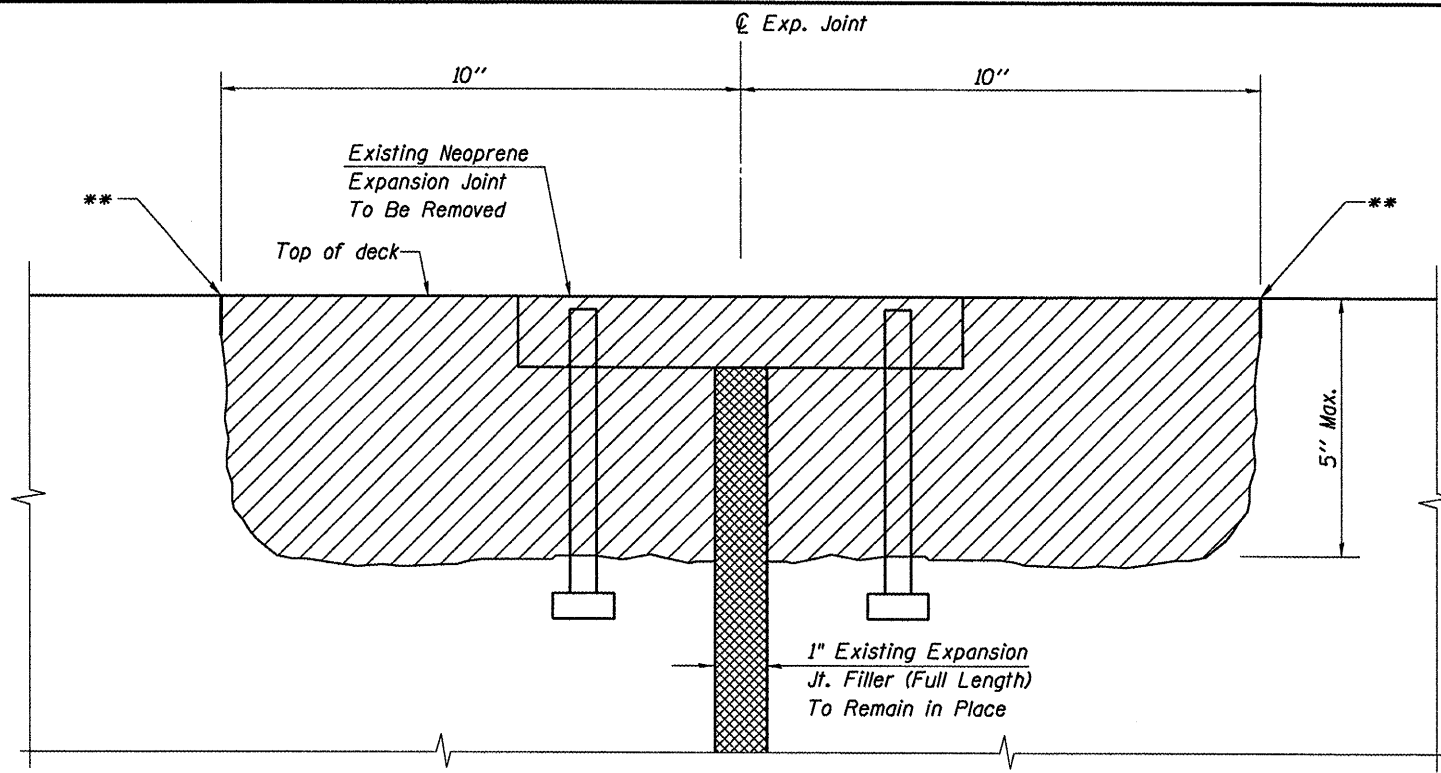
Item	Unit	Total
Remove and Replace Floor Drains	Each	22

Note:
 Cross-hatched area indicates area of concrete removal for floor drain replacement.
 Removal and replacement of the existing concrete necessary to replace the floor drains shall be done in accordance with the special provision for Deck Slab Repairs. This work shall not be measured separately but shall be included in the cost for REMOVE AND REPLACE FLOOR DRAINS.

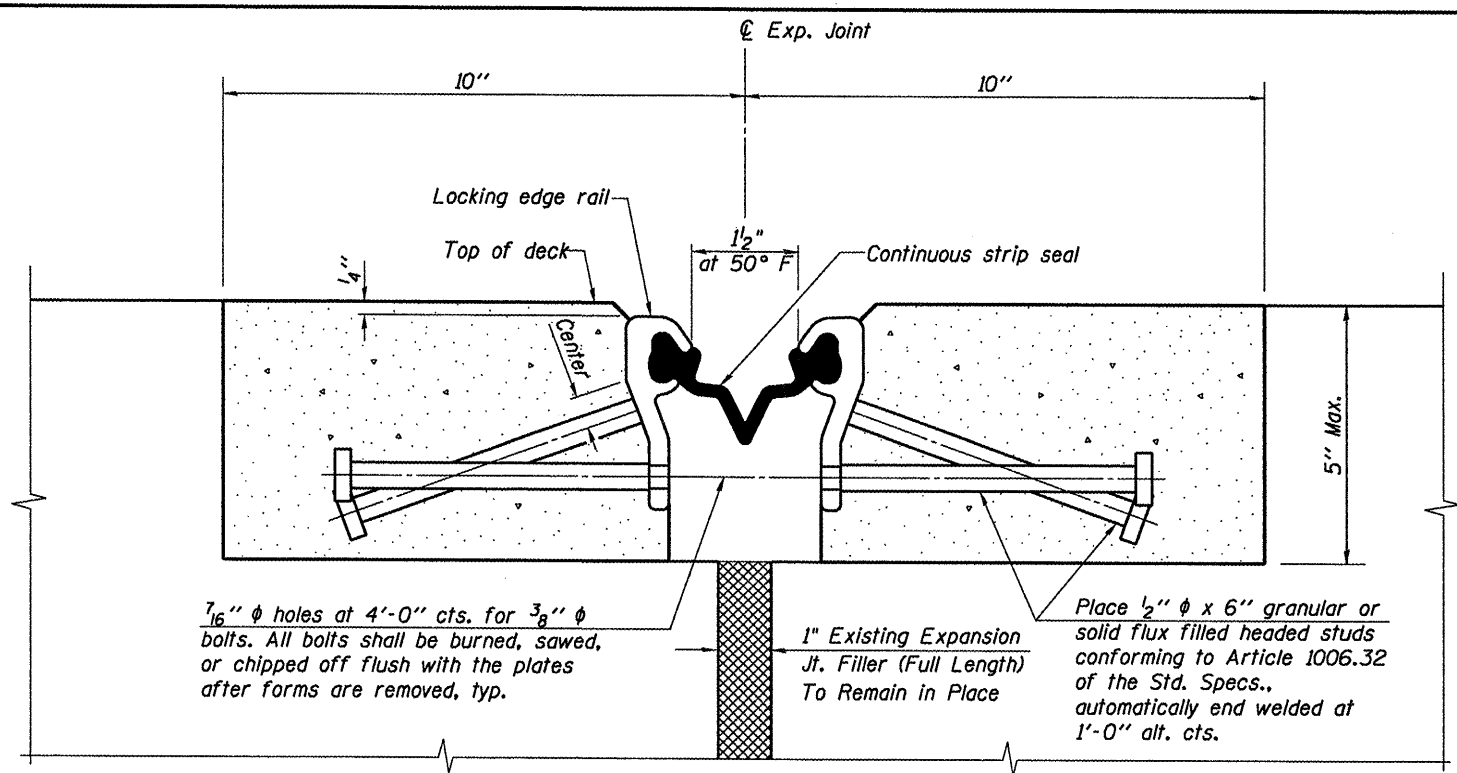
DRAIN DETAILS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

JOB = 2207	DESIGNED M.D.C.
FILE = 2207drains.dgn	CHECKED A.A.N.
DATE = 2/9/2011	DRAWN T.S.H.
	CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B003	09-00469-00-BR	SANGAMON	36	29
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



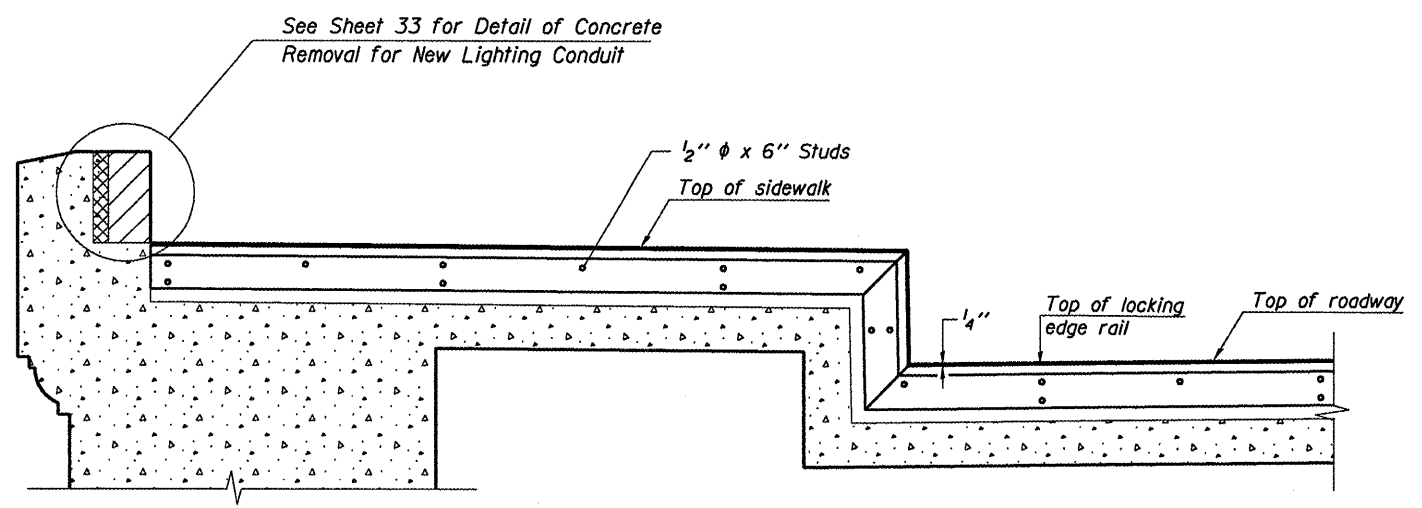
CONCRETE REMOVAL AT EXISTING NEOPRENE JOINT
(17 Locations)



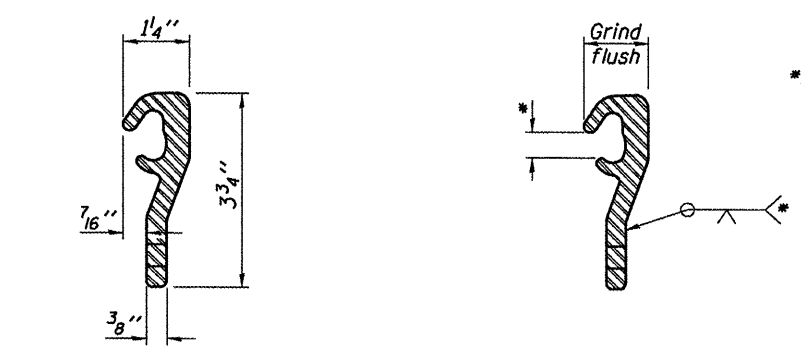
PROPOSED SECTION THRU STRIP SEAL JOINT
(17 Required)

SECTION A-A
(TYPICAL AT JOINTS 2, 4, 5, 6 THRU 16, 17, 18, & 20)

**Sawcut Edge 1" deep



SECTION THRU STRIP SEAL JOINT AT SIDEWALK & CURB
(Stone Railing Not Shown)



LOCKING EDGE RAIL LOCKING EDGE RAIL SPLICE

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
The inside of the Locking Edge Rail groove shall be free of weld residue.
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
The manufacturer's recommended installation methods shall be followed.

*Omit weld at seal opening.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	600

Notes:

The removal and replacement of the existing concrete necessary to replace the expansion joints shall be done in accordance with the special provision for Deck Slab Repairs. This work will be measured and paid for as DECK SLAB REPAIR (PARTIAL) and shall include the cost to remove and dispose of the existing neoprene expansion joints.

No vehicles will be allowed on spans 6 through 16 during the removal and replacement of the expansion joints in those spans. Limit equipment loads to 3000 pounds maximum in these spans during expansion joint removal and replacement, and until new concrete has been allowed to cure a minimum of 14 days.

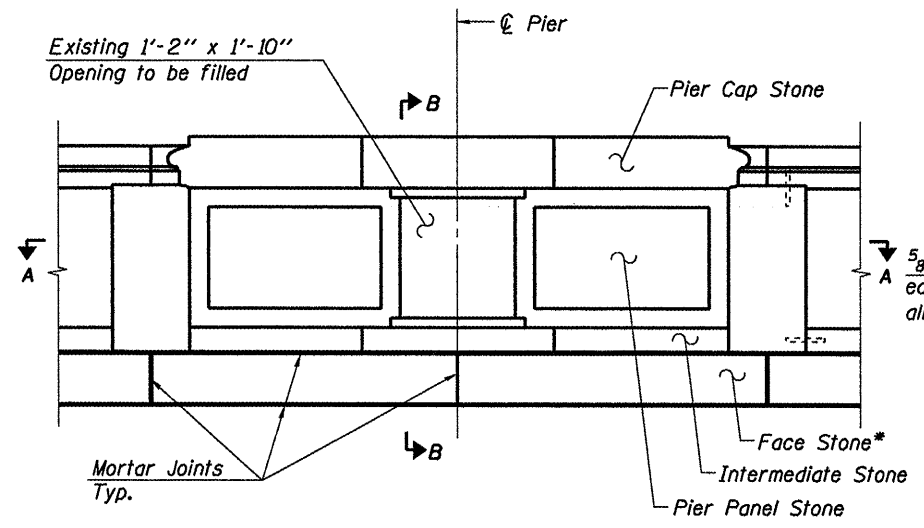
EXPANSION JOINT DETAILS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS



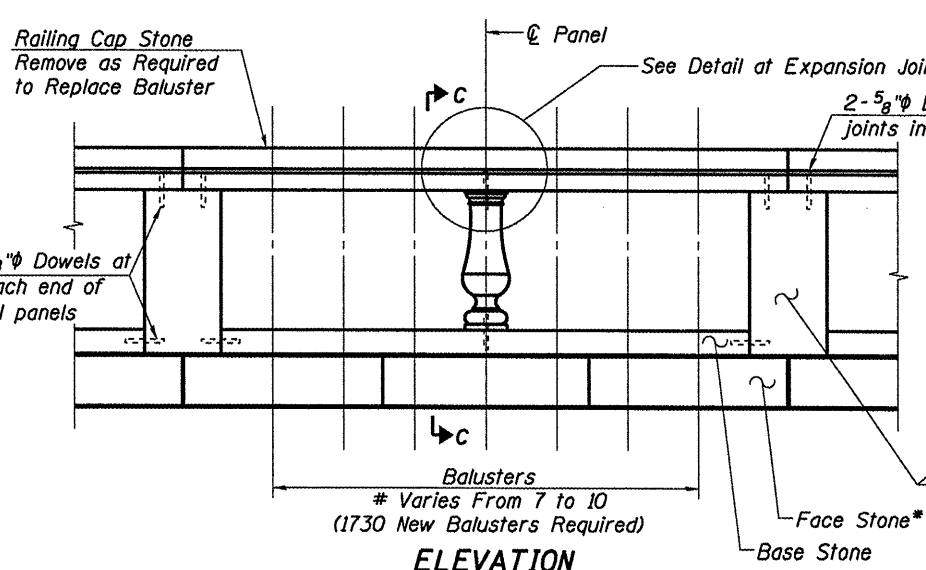
JOB = 2207	DESIGNED	M.D.C.
FILE = 2207expjoint.dgn	CHECKED	A.A.N.
DATE = 2/9/2011	DRAWN	T.S.H.
	CHECKED	M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	30
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

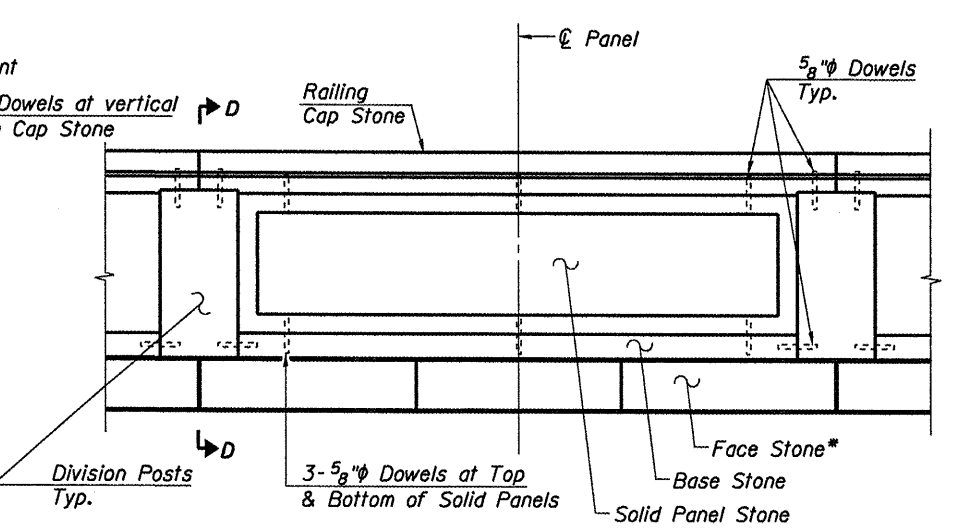
93546



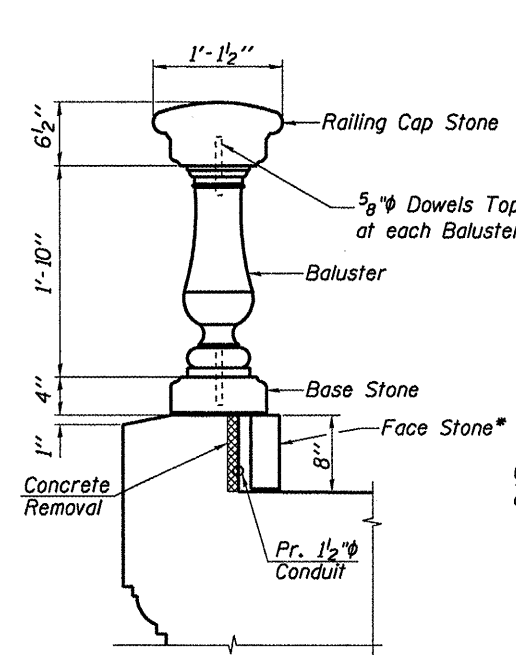
ELEVATION AT PIER PANEL



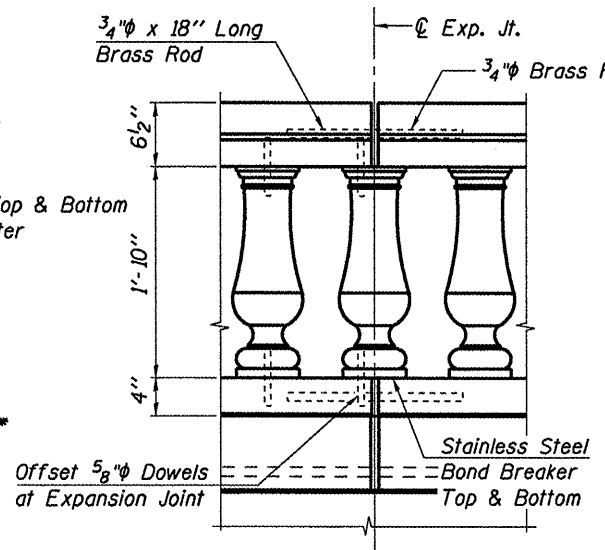
ELEVATION AT BALUSTER PANEL



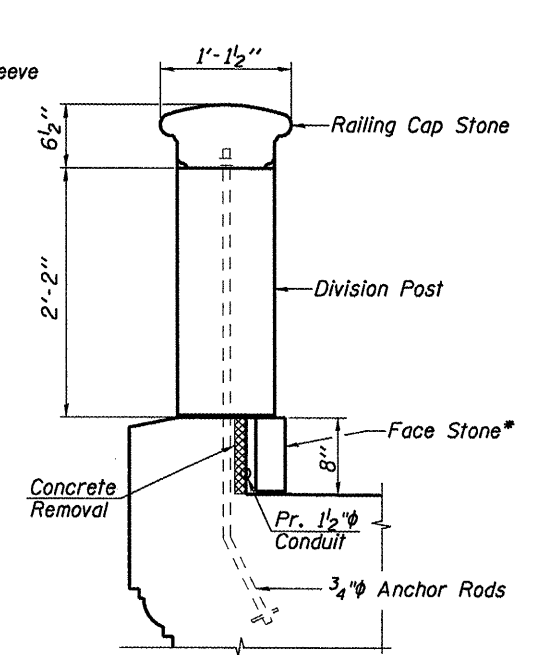
ELEVATION AT SOLID PANEL



SECTION C-C THRU BALUSTER PANEL



DETAIL AT EXPANSION JOINT THRU STONE RAIL AT CENTER OF CANTILEVER SPANS

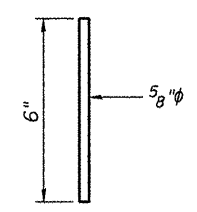


SECTION D-D THRU DIVISION POST

STONE RAILING NOTES

RAILING RESTORATION

- The entire stone railing shall be renovated as follows:
1. All balusters shall be removed and replaced. See the Special Provision for Remove and Replace Balusters. This work involves removing and resetting the railing cap stones at all baluster panels.
 2. Remove and reset the Face Stone along the entire length of both sides of the bridge. This stone will be reset to allow placement of the new lighting conduit and to permit removal and replacement of the exiting expansion joints.
 3. Remove and reset the Pier Panel Stones and the center Pier Cap Stone as required to install the new light pole foundation locations.
 4. Remove and replace any damaged stones. See the Schedule of Railing Stones to be Replaced on Sheet 33.
 5. Clean and tuckpoint all remaining mortar joints in the railing that are not affected by the above work.



REPLACEMENT DOWEL DETAIL

Stainless Steel in accordance with Article 1006.31(b)

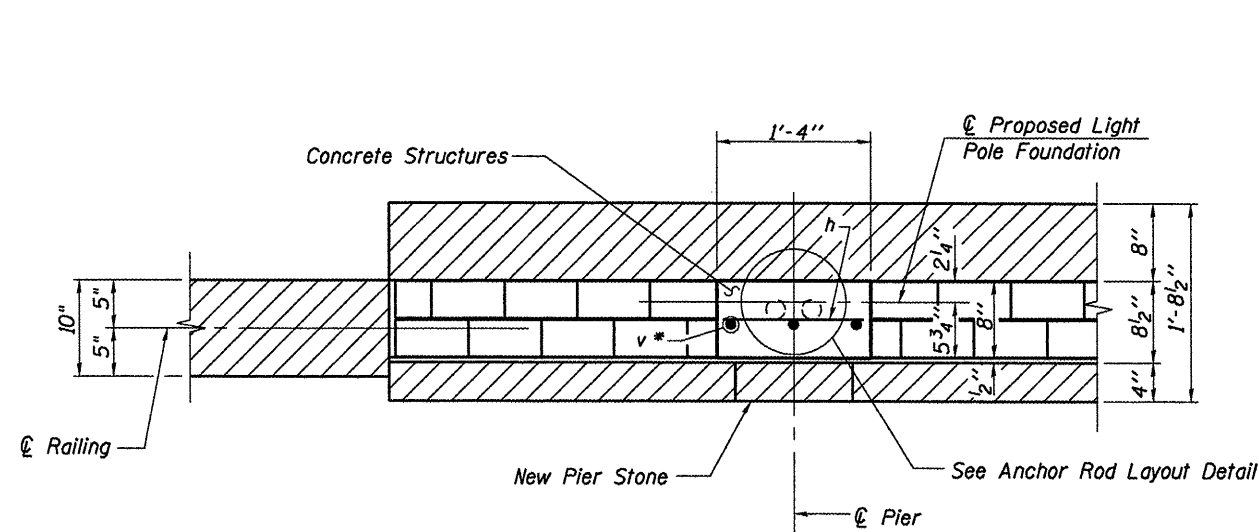
Note: The original 5/8 inch brass pipe dowels and the 3/4 inch brass rods used in the existing railing may be re-used provided that they are in good condition. All damaged or missing dowels or rods shall be replaced with new stainless steel dowels or rods. Replacement dowels, rods, pins and any other hardware required to reset the rail elements shall not be measured separately but shall be included in the cost of the railing work.

* See Railing Restoration Note 2.

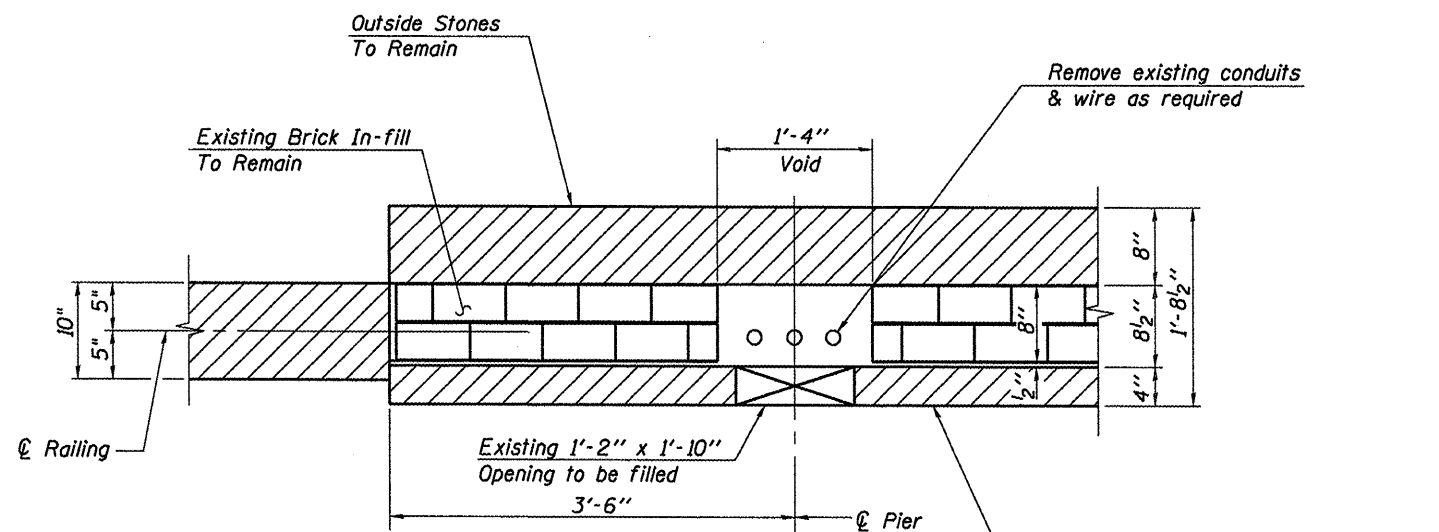
**RAILING DETAILS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

CEC Civil and Structural Engineering	Cummins Engineering Corporation	JOB = 2207	DESIGNED M.D.C.
		FILE = 2207rail.dgn	CHECKED A.A.N.
		DATE = 2/9/2011	DRAWN T.S.H.
			CHECKED M.D.C.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	31
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	93546		

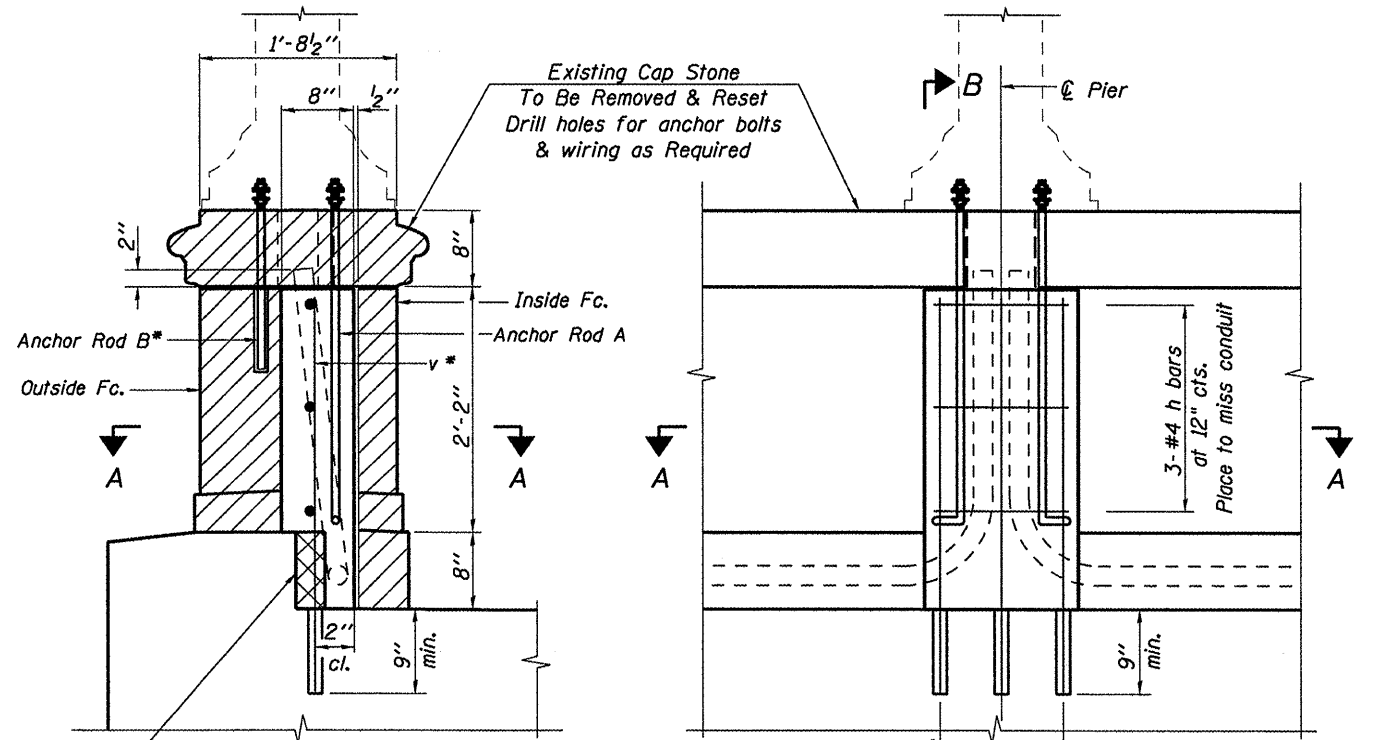


**SECTION A-A
THRU PROPOSED PIER
SHOWING PROPOSED LIGHT POLE FOUNDATION**
(Typical at 28 Locations)



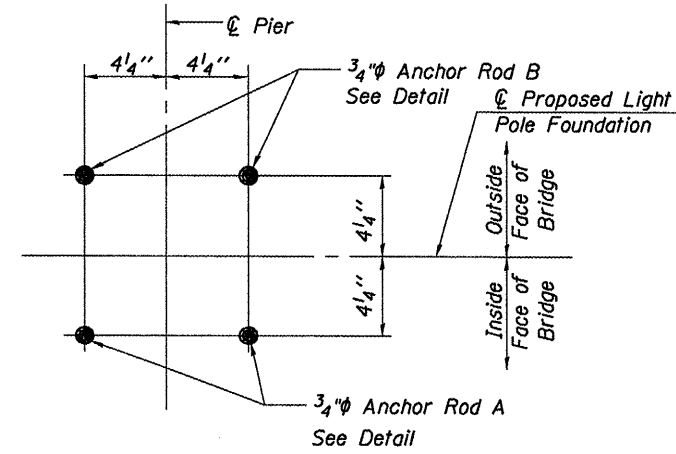
**SECTION A-A
THRU EXISTING PIER**
(Typical at 28 Locations)

Note: Remove old conduit and wires as required to construct new light pole foundation. Cost included in Concrete Removal. Existing light to be removed prior to construction by others.



SECTION B-B

ELEVATION

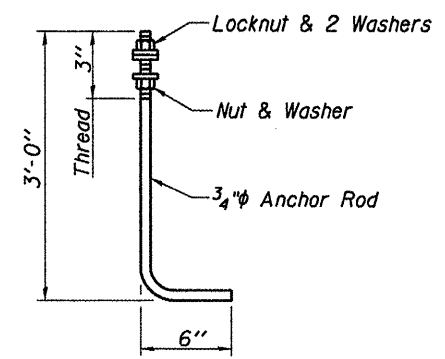


ANCHOR ROD LAYOUT DETAIL
(28 Locations)

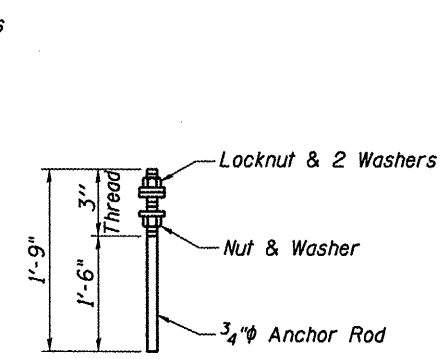
**BILL OF MATERIAL
28 LIGHT POLE FOUNDATIONS**

Bar	No.	Size	Length	Shape
h	84	#4	1'-0"	—
v*	84	#5	3'-5"	—
Concrete Structures		Cu. Yd.	2.3	
Reinforcement Bars, Epoxy Coated		Pound	360	
Anchor Rods		Each	112	
Concrete Removal		Cu. Yd.	4.9	

Note: All bars and anchor rods designated with an asterisk (i.e.: v*) shall be epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment = 9". All reinforcement bars shall be epoxy coated. For conduit and light pole see Lighting Plans.



ANCHOR ROD A
(ASTM F 1554 Grade 105)
(56 Required)



ANCHOR ROD B*
(ASTM F 1554 Grade 105)
(56 Required)

**RAILING DETAILS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

REMOVE AND REPLACE RAILING CAP STONE

Span No.	North (Ft.)	South (Ft.)
3		5
5	5	
9		9
11	5	
15	5	
16		5
18	5	
TOTAL	20	19

REMOVE AND REPLACE BASE STONE

Span No.	North (Ft.)	South (Ft.)
1	7.33	
2	6.25	
4	10.67	
5	10.67	
6	3.91	
7	13.67	
8	21.17	7.66
9	24.08	
10	20.58	3.92
11	10.17	
12	2.92	3.92
13	10.67	
14	6.25	
15	25.83	
16	16.58	2.92
TOTAL	190.75	18.42

REMOVE AND REPLACE FACE STONE

Span No.	North (Ft.)	South (Ft.)
1	3.67	1.50
2	8.83	
3		8.67
4	5.00	
5	5.00	
6	6.58	2.25
7	1.83	7.00
8	5.33	3.50
9	5.00	
10	1.83	7.00
11		3.50
12		13.08
13	5.33	3.50
14		2.58
15		4.08
16	0.00	7.75
17	6.33	2.50
18	8.83	
19	5.00	
20		3.58
21	8.83	
TOTAL	77.39	70.49

REMOVE AND REPLACE INTERMEDIATE STONE

Span No.	North (Ft.)	South (Ft.)
2	4.8	2.5
7	2.5	
13		2.5
14	2.5	
15		2.5
16		2.5
17		2.5
21		2.5
TOTAL	9.80	15.00

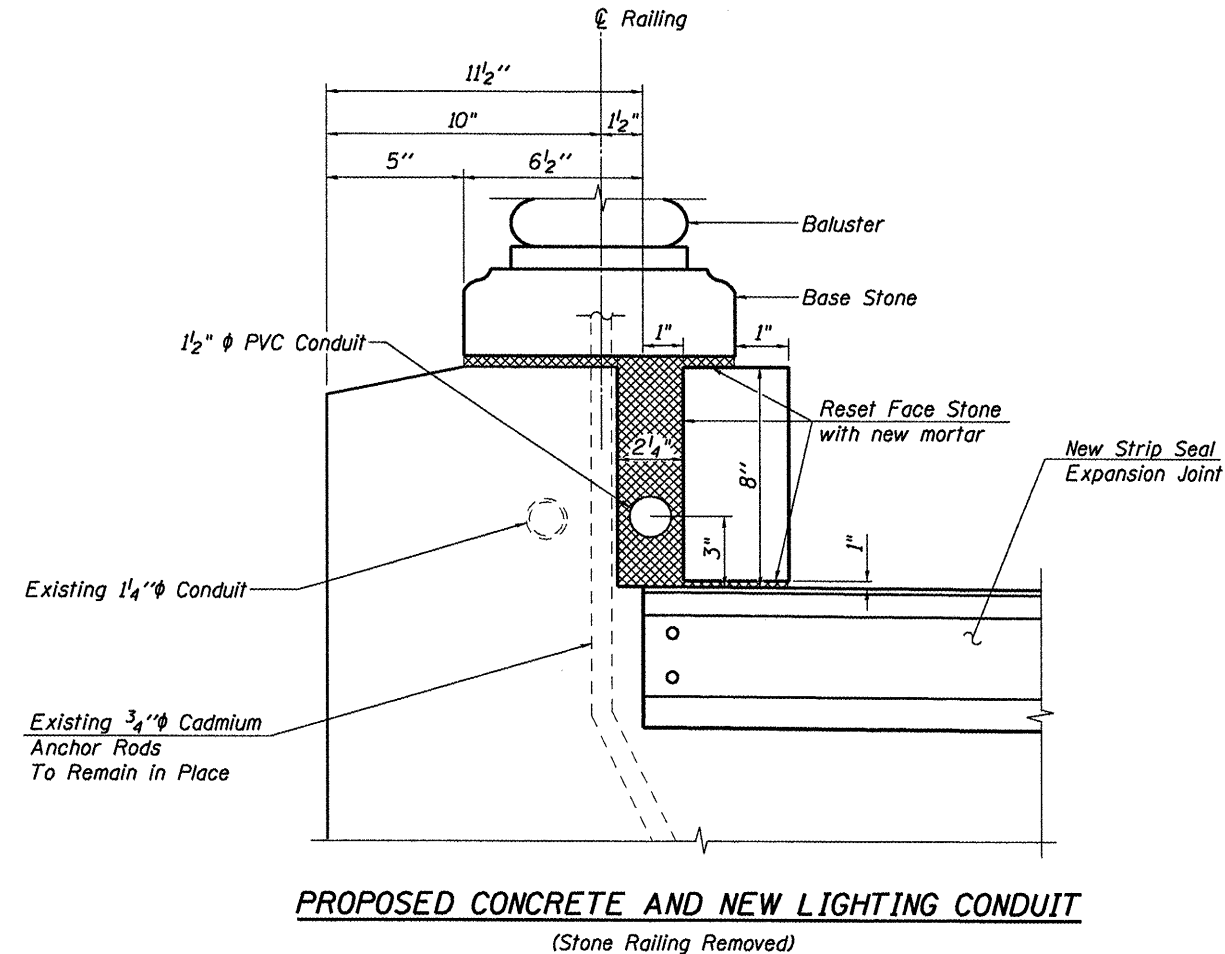
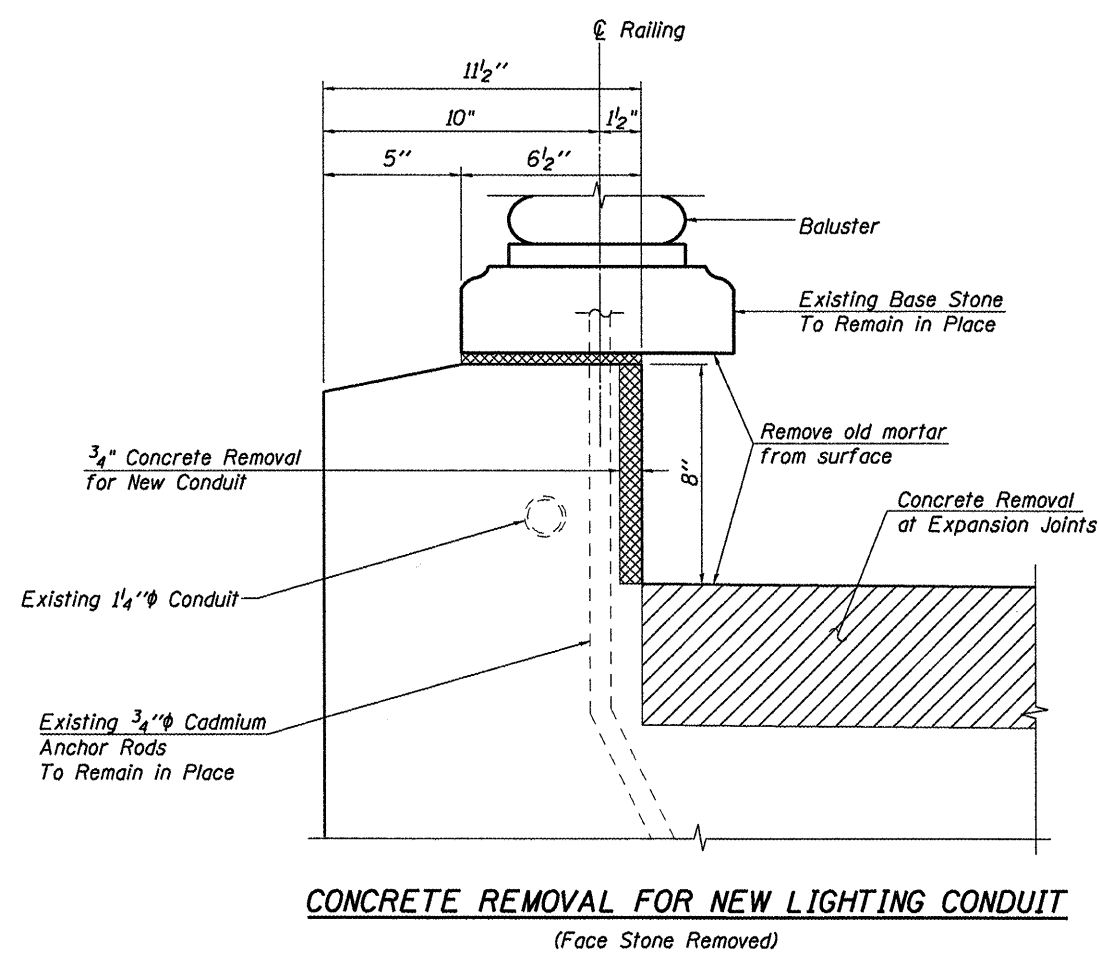
PIER STONE

Fill existing light openings with new material to match existing stone. See Special Provisions.

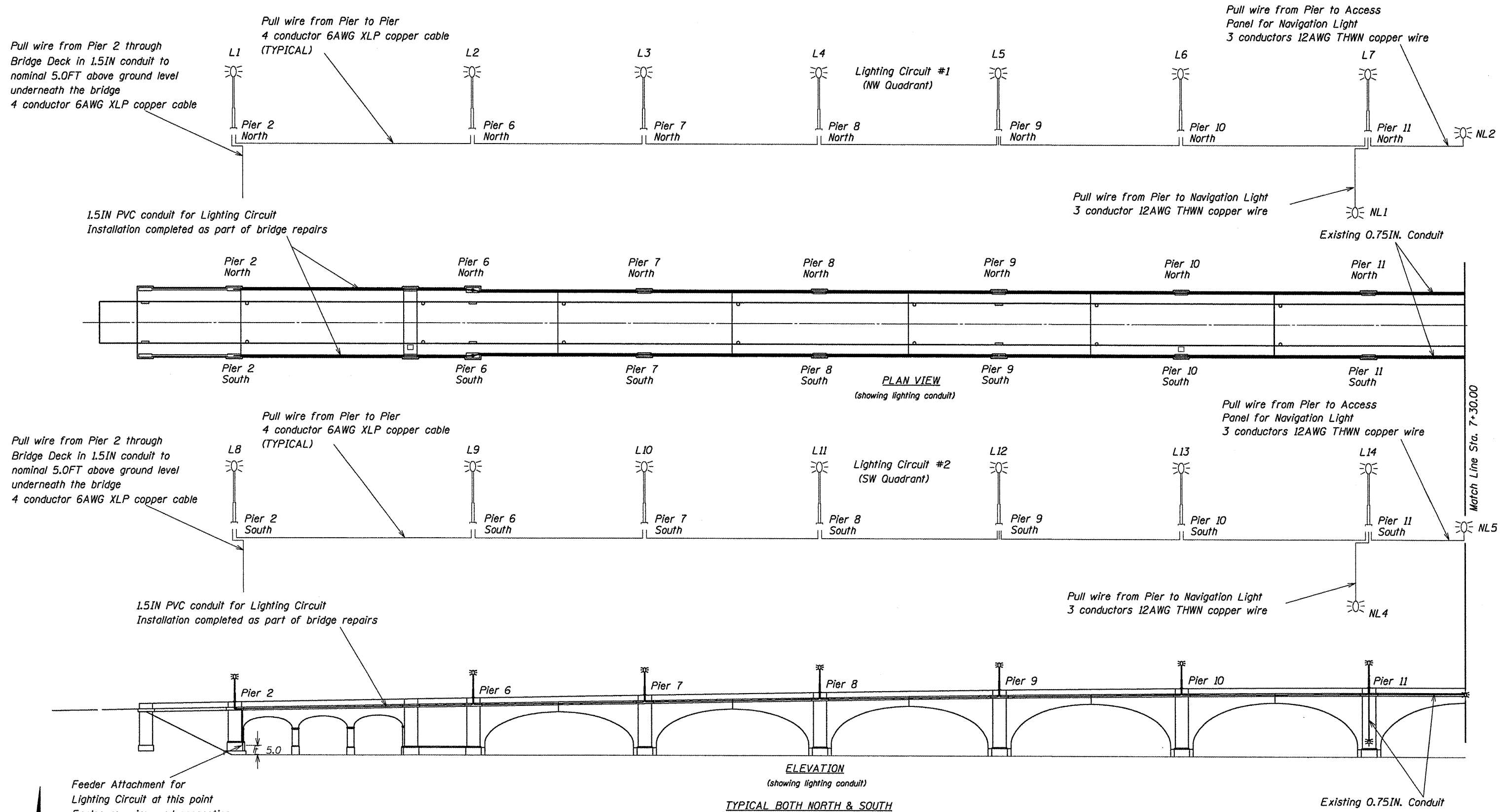
Required at 36 Locations

Opening Approx. 1'-2" x 1'-10" x 4" = 0.71 Cu. Ft.
x 36 Locations = 25.56 Cu. Ft.

SCHEDULE OF RAILING STONES TO BE REPLACED



**RAILING DETAILS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**



Pull wire from Pier 2 through Bridge Deck in 1.5IN conduit to nominal 5.0FT above ground level underneath the bridge 4 conductor 6AWG XLP copper cable

Pull wire from Pier to Pier 4 conductor 6AWG XLP copper cable (TYPICAL)

Pull wire from Pier to Access Panel for Navigation Light 3 conductors 12AWG THWN copper wire

1.5IN PVC conduit for Lighting Circuit Installation completed as part of bridge repairs

Pull wire from Pier to Navigation Light 3 conductor 12AWG THWN copper wire

Existing 0.75IN. Conduit

PLAN VIEW (showing lighting conduit)

Pull wire from Pier 2 through Bridge Deck in 1.5IN conduit to nominal 5.0FT above ground level underneath the bridge 4 conductor 6AWG XLP copper cable

Pull wire from Pier to Pier 4 conductor 6AWG XLP copper cable (TYPICAL)

Pull wire from Pier to Access Panel for Navigation Light 3 conductors 12AWG THWN copper wire

1.5IN PVC conduit for Lighting Circuit Installation completed as part of bridge repairs

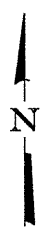
Pull wire from Pier to Navigation Light 3 conductors 12AWG THWN copper wire

Existing 0.75IN. Conduit

ELEVATION (showing lighting conduit) TYPICAL BOTH NORTH & SOUTH

Feeder Attachment for Lighting Circuit at this point Enclosure, wire, and connection (By Others)

- General Notes:
1. See Bridge Lighting Drawing Sheet 3 for installation details of the Light Unit Complete.
 2. See Bridge Construction Drawings for installation details of the lighting conduit.
 3. Each Pier shown as a light location has been constructed with a pole foundation and mounting bolts.
 4. The base of each light pole provides space for electrical termination at that light and a feed-thru to the next light.



COUNTY	SECTION
TOWNSHIP	14 SECTION
DIG NOTICE NO.	

CITY WATER LIGHT & POWER
SPRINGFIELD, ILLINOIS

LIGHTING PLAN & ELEVATION
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

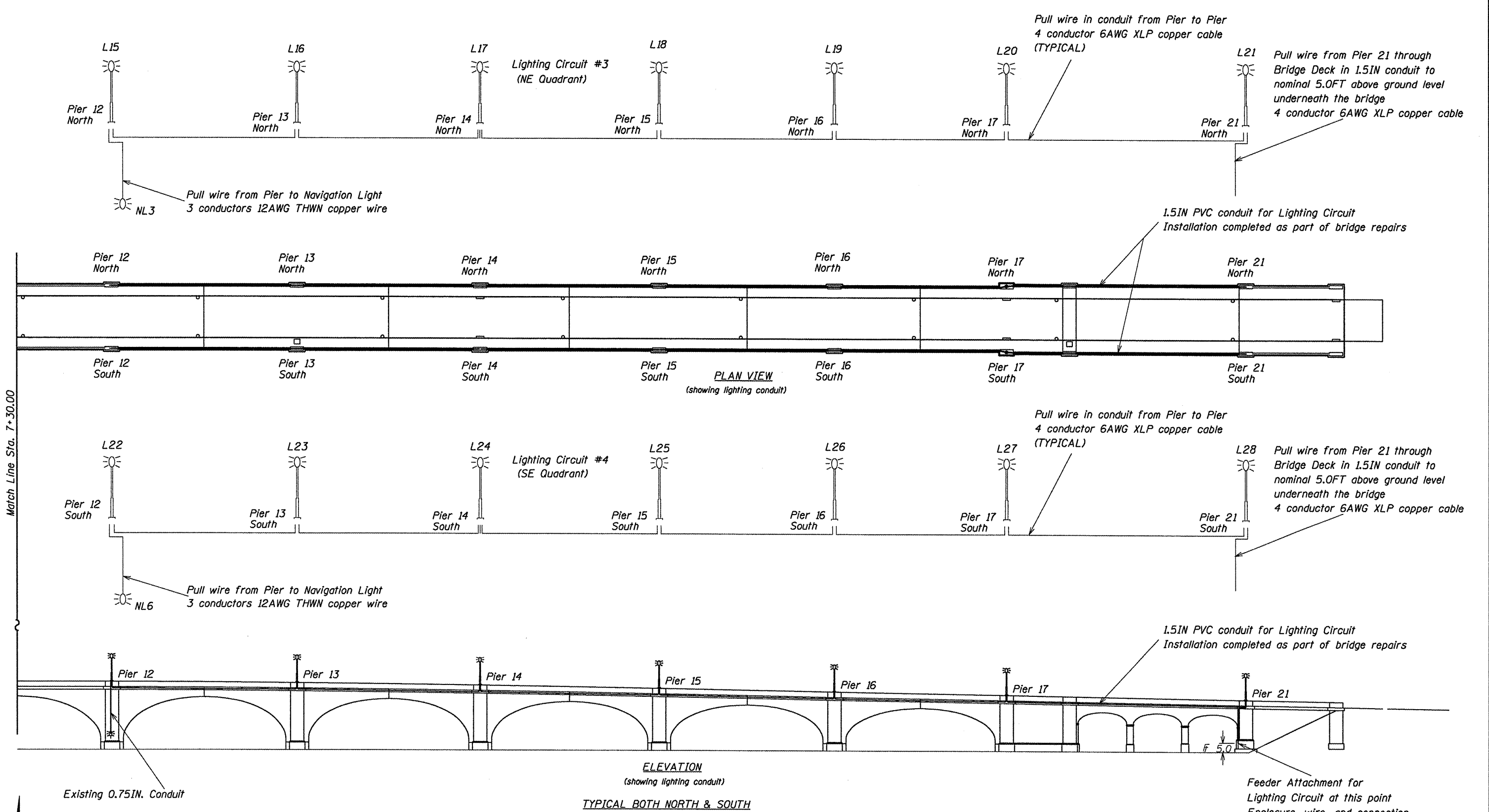
DRAWING BY: PLOT SCALE: 1" = 30'

DRAWING DATE:

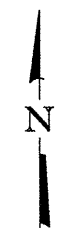
Bridge Lighting Drawing Sheet 1 of 3

LIGHTING PLANS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	34
CITY OF SPRINGFIELD		CONTRACT NO. 9546		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



Match Line Sta. 7+30.00



- General Notes:**
1. See Bridge Lighting Drawing Sheet 3 for installation details of the Light Unit Complete.
 2. See Bridge Construction Drawings for installation details of the lighting conduit.
 3. Each Pier shown as a light location has been constructed with a pole foundation and mounting bolts.
 4. The base of each light pole provides space for electrical termination at that light and a feed-thru to the next light.

COUNTY	SECTION
TOWNSHIP	14 SECTION
DIG NOTICE NO.	

CITY WATER LIGHT & POWER
 SPRINGFIELD, ILLINOIS

LIGHTING PLAN & ELEVATION
 VACHEL LINDSAY BRIDGE REHABILITATION
 LONG BAY DRIVE OVER LAKE SPRINGFIELD
 SPRINGFIELD, ILLINOIS

DRAWING BY: PLOT SCALE: 1" = 25'

DRAWING DATE:

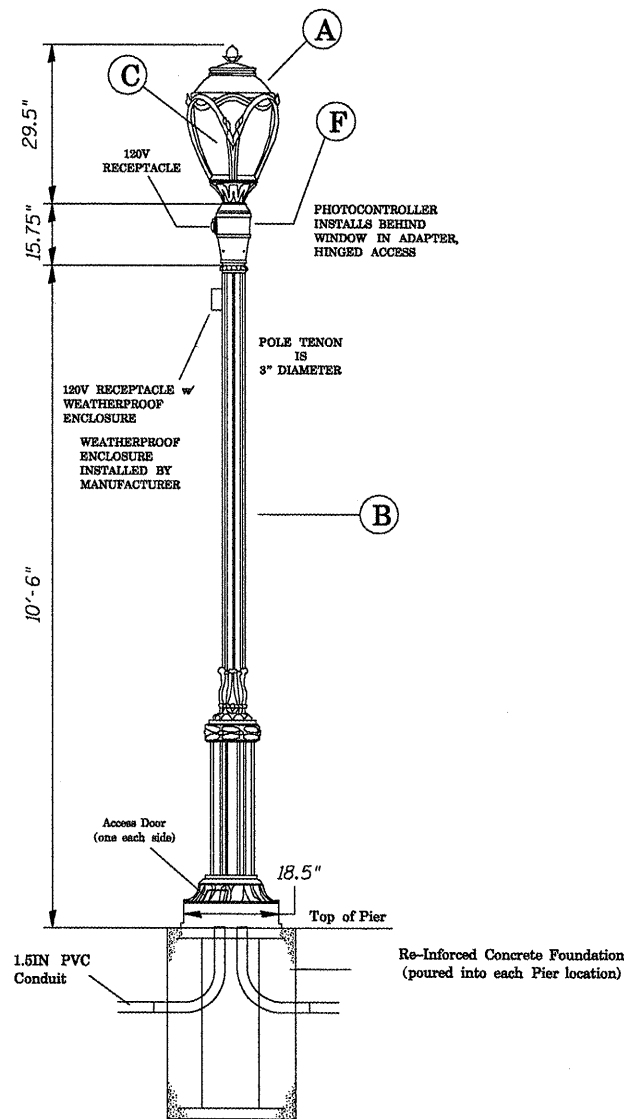
Bridge Lighting Drawing Sheet 2 of 3

LIGHTING PLANS
VACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	35
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

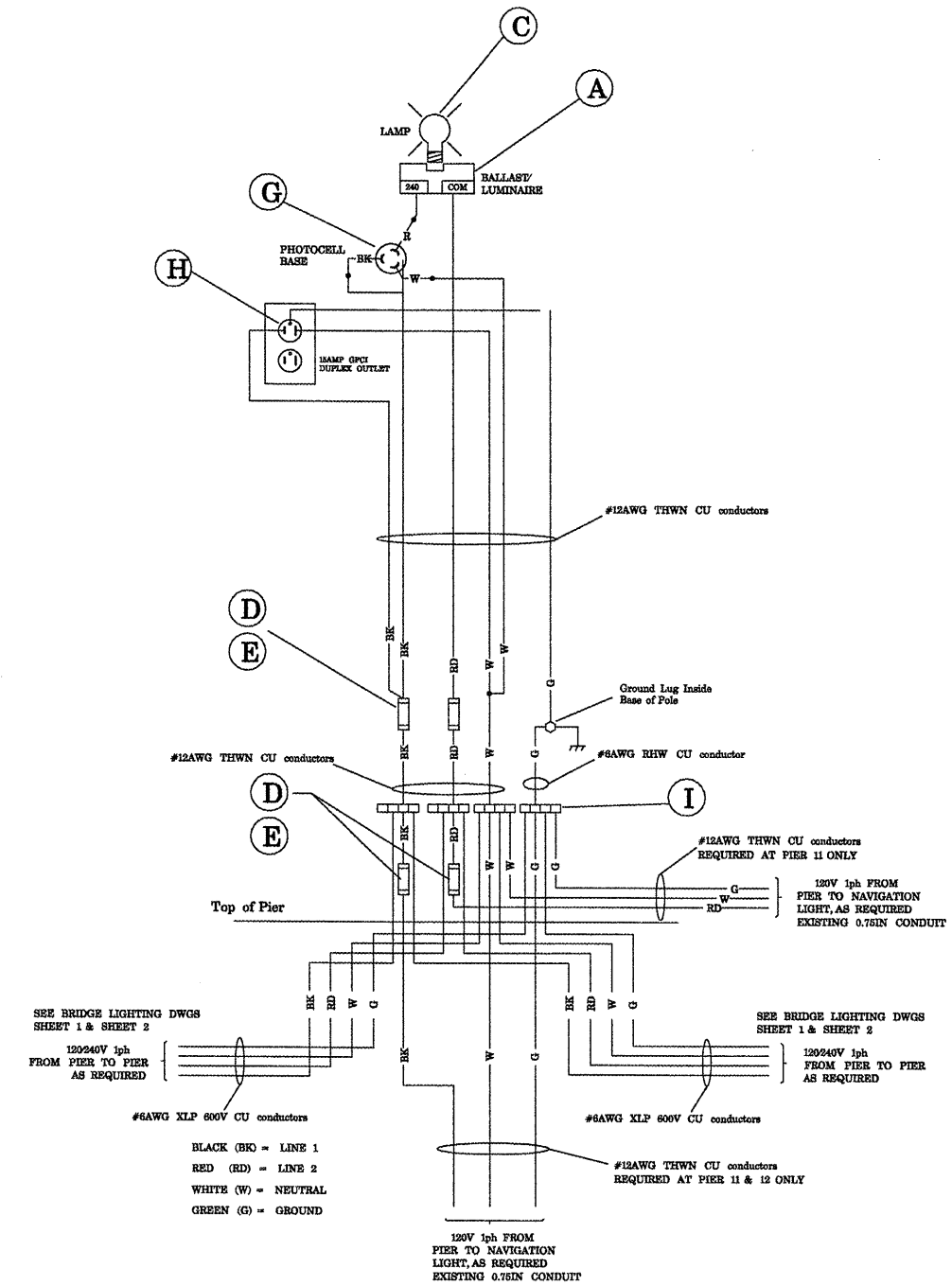
93546

- (A) Luminaire, 150W HPS, Post Top, Black
240V Multi-Tap Ballast
Symmetrical Light Distribution
SENTRY Catalog # SCP-150HPS-240V-MT-V-BK
Or Approved Equal
- (B) Pole, 10 FT, Aluminum, Black
Fluted Shaft with Decorative Base
SENTRY Catalog # SAL-B-10'-6" w/GFI Enclosure
Or Approved Equal
- (C) Lamp, HPS, 150W, 55V, Non-Cycling
Mogul Base E39
Sylvania Catalog # LU150-5-ECO-NC
Or Approved Equal
- (D) Fuse holder, Inline, 600V, 30A
Watertight and Submersible
Non-Glass Cartridge Fuses
Fuse Size 13/32" Dia x 1 1/2" Long
HOMAC Part # SLK-22-M, Or Approved Equal
- (E) Fuse, 250V, 10A, Time Delay
Fuse Size 13/32" Dia x 1 1/2" Long
10,000AIC at 250VAC
Bussmann Part # FNM-10, Or Approved Equal
- (F) Adapter Sleeve for Photocontroller
Hinged Door Access to Photocontroller base
Rotates 360degrees for photocontrol orientation
LUMEC Part # SFPH3-SR2-BKTX-LMS34510B
- (G) Electronic Twist-Lock Photocontrol
120240277V, 2-5 Second Turn-of Delay
1 footcandle Turn-On Level
320J13,000amp MOV
DARK TO LIGHT Part # DP124-1.0-TJ
Or Approved Equal
- (H) GFCI Duplex Receptacle
15A, 125V, NEMA 5-15R
HUBBELL Catalog # GFST15AL
Or Approved Equal
- (I) Electrical Connector
3 Taps, #14-10AWG Range
CU/AL Rated, Insulated
UTILCO Catalog # SLC3-0C
Or Approved Equal



BILL OF MATERIAL

Item	Unit	Total
Conduit Embedded in Structure, 1 1/2" dia., PVC	Foot	2,620
Electric Cable in Conduit, 600V (XLP-Type Use) 4/C No. 6	Foot	2,680
Lighting Unit, Complete	Each	28



COUNTY	SECTION
TOWNSHIP	14 SECTION
DIG NOTICE NO.	

**CITY WATER LIGHT & POWER
SPRINGFIELD, ILLINOIS**

**LIGHTING PLAN & ELEVATION
YACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

DRAWING BY: _____ PLOT SCALE: 1" = 18"

DRAWING DATE: _____

Bridge Lighting Drawing Sheet 3 of 3
Light Unit Complete

**LIGHTING PLANS
YACHEL LINDSAY BRIDGE REHABILITATION
LONG BAY DRIVE OVER LAKE SPRINGFIELD
SPRINGFIELD, ILLINOIS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8003	09-00469-00-BR	SANGAMON	36	36
CITY OF SPRINGFIELD		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

93546