

AS - BUILT

INDEX OF SHEETS

8

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STANDARDS

- 701001 OFF-ROAD OPERATIONS, 2-L, 2-W, 4.5 M (15') MIN. AWAY, FOR SPEEDS > 45 MPH
- 701006 OFF-ROAD OPR., 2-L, 2-W, 4.5 M (15') TO 600 MM (24") AWAY, FOR SPEEDS > 45 MPH
- 701311 LANE CLOSURE, 2-L, 2-W, MOVING DAY ONLY OPERATIONS
- 701316 LANE CLOSURE, 2-L, 2-W, BRIDGE REPAIR
- 702001 TRAFFIC CONTROL DEVICES
- 781001 TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS

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

DISTRICT 3 NO. 1-815-434-6131  
 PROJECT ENGINEER: TOM HUFNAGEL 1-815-434-8418  
 UNIT CHIEF: RON WOODSHANK 1-815-434-8419  
 TOWNSHIP: AUX SABLE

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

CONTRACT NO. 66150

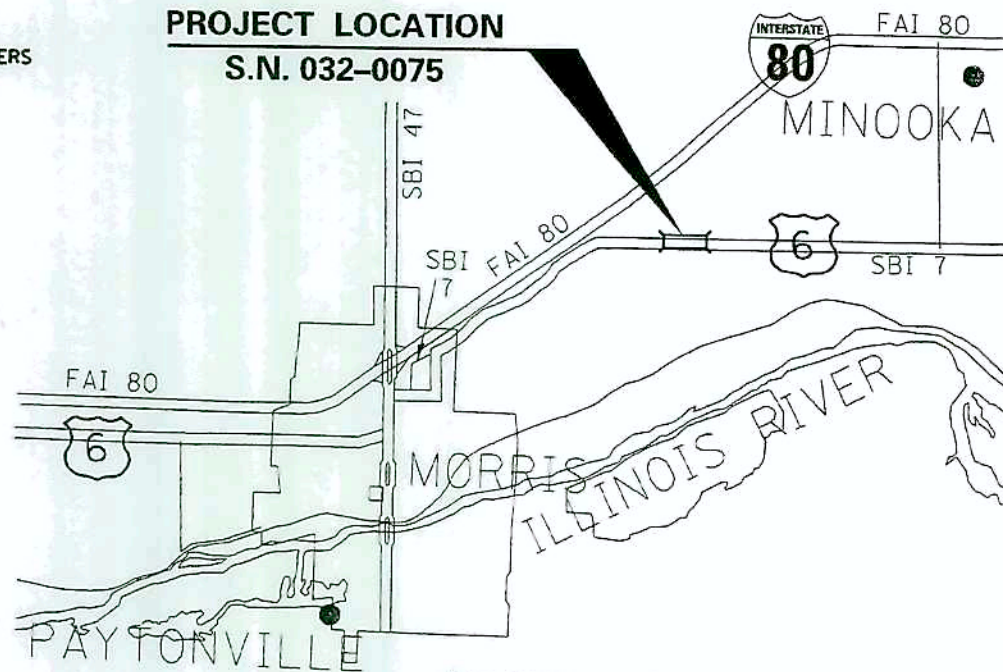
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

PROPOSED  
 HIGHWAY PLANS

FAS ROUTE 297 (US ROUTE 6)  
 SECTION (G-VB)  
 GRUNDY COUNTY

C-93-176-00

PROJECT: BRIDGE REPAIR  
 LOCATION: S.N. 032-0075  
 5.3 MILES EAST OF IL ROUTE 47



LOCATION MAP

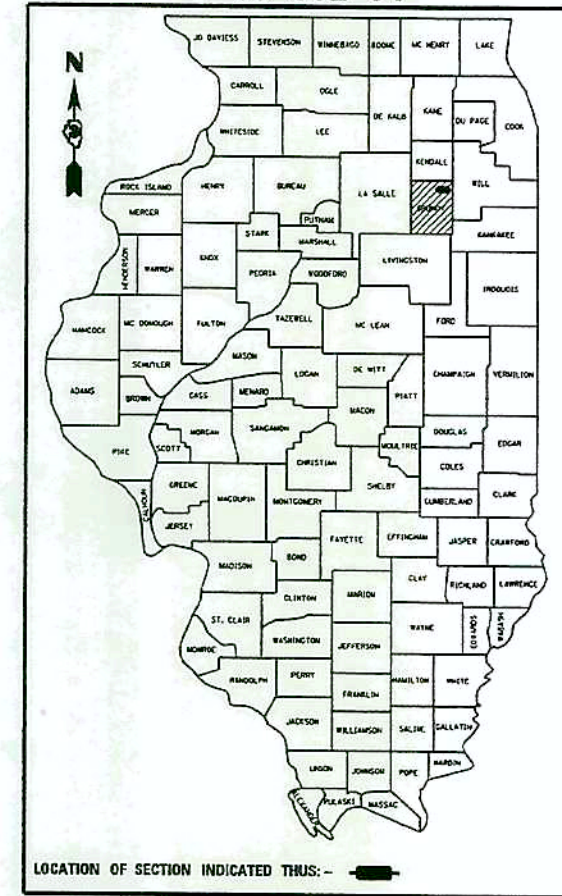
NOT TO SCALE

GROSS LENGTH = 244 FT. = 0.05 MI.  
 NET LENGTH = 244 FT. = 0.05 MI.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VB)	GRUNDY	22	1

0066150

D-93-002-04



LOCATION OF SECTION INDICATED THUS: -

FUNCTIONAL CLASSIFICATION

RURAL: MAJOR COLLECTOR

2001 ADT = 5900

P.V = 89.0 % M.U. = 4.2 % S.U. = 6.8 %

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED: DECEMBER 19, 2003

*June 04*  
 DISTRICT ENGINEER

*January 30, 04*  
 Mike Nunez  
 ENGINEER OF DESIGN AND ENVIRONMENT

*January 30, 2004*  
 Victor Modes  
 DIRECTOR, DIVISION OF HIGHWAYS

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 OF THE STATE OF ILLINOIS

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## SUMMARY OF QUANTITIES

CONSTRUCTION CODE # SFTY-2A

CODE NO.	ITEM	UNIT	RURAL 100% STATE TOTAL QUANTITY
△ 28100701	STONED DUMPED RIPRAP, CLASS A4	SQ YD	198
44000910	BITUMINOUS CONCRETE REMOVAL (DECK)	SQ YD	1128
50301245	FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	583
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1131
67100100	MOBILIZATION	L SUM	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	956
*78100105	RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)	EACH	10
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10
X0301424	SILICONE JOINT SEALER	FOOT	148
X0320887	POLYMER CONCRETE	CU FT	24
X0321468	PLUG EXISTING DECK DRAINS	EACH	24
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	94

\* SPECIALTY ITEMS

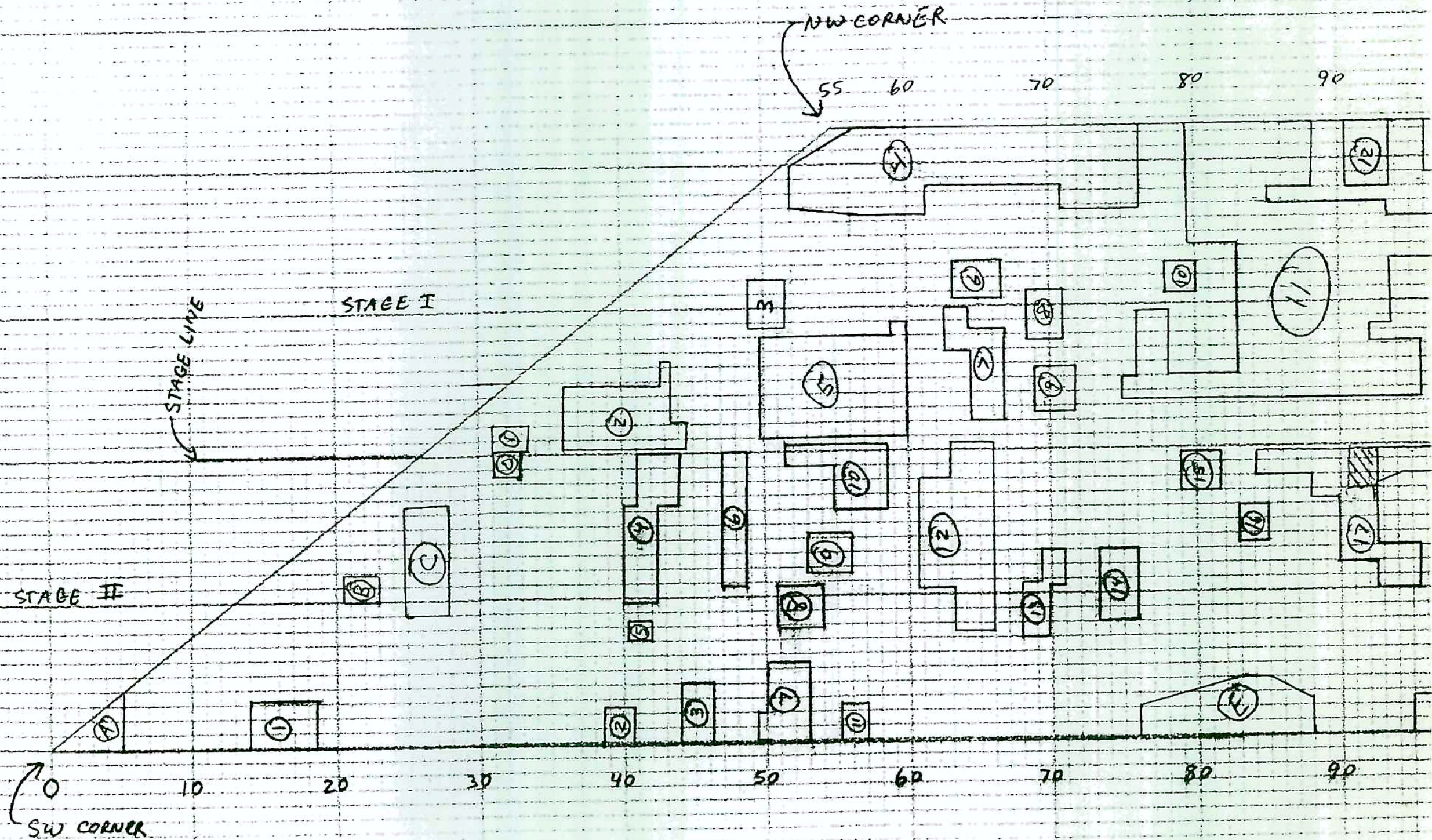
cmain04/cm303/details.dgn

△ **REVISED**  
2.23-04

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	<b>SUMMARY OF QUANTITIES</b>
		SCALE: VERT.      DRAWN BY RW
		DATE 7/30/03      CHECKED BY

Z0016000 - DECK SLAB REPAIR (FULL DEPTH)

Z0016200 - DECK SLAB REPAIR (PARTIAL)

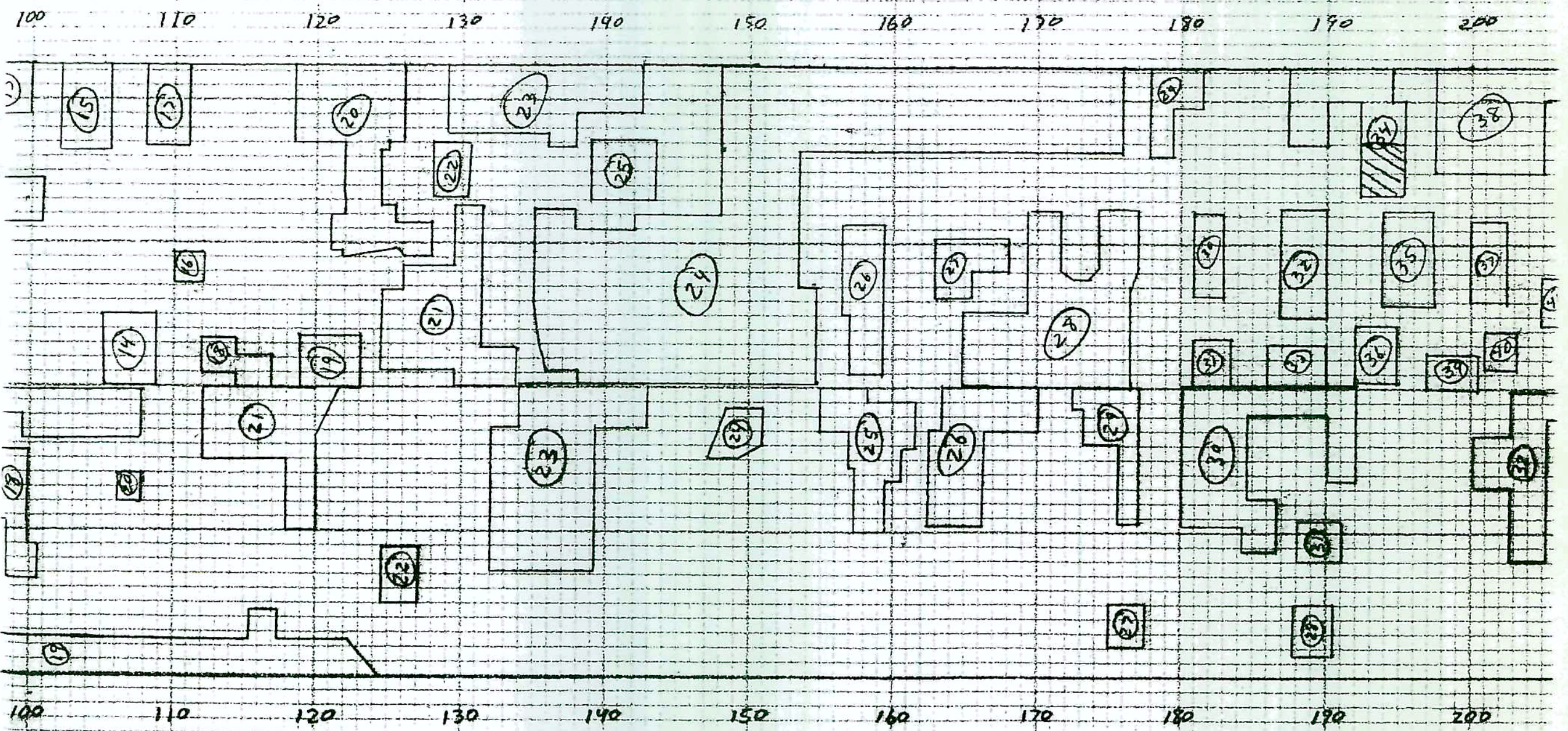


SN. 032-0075

Location: 5.3 miles EAST OF IL-47

LEGEND

- = PART
- ▨ = FULL



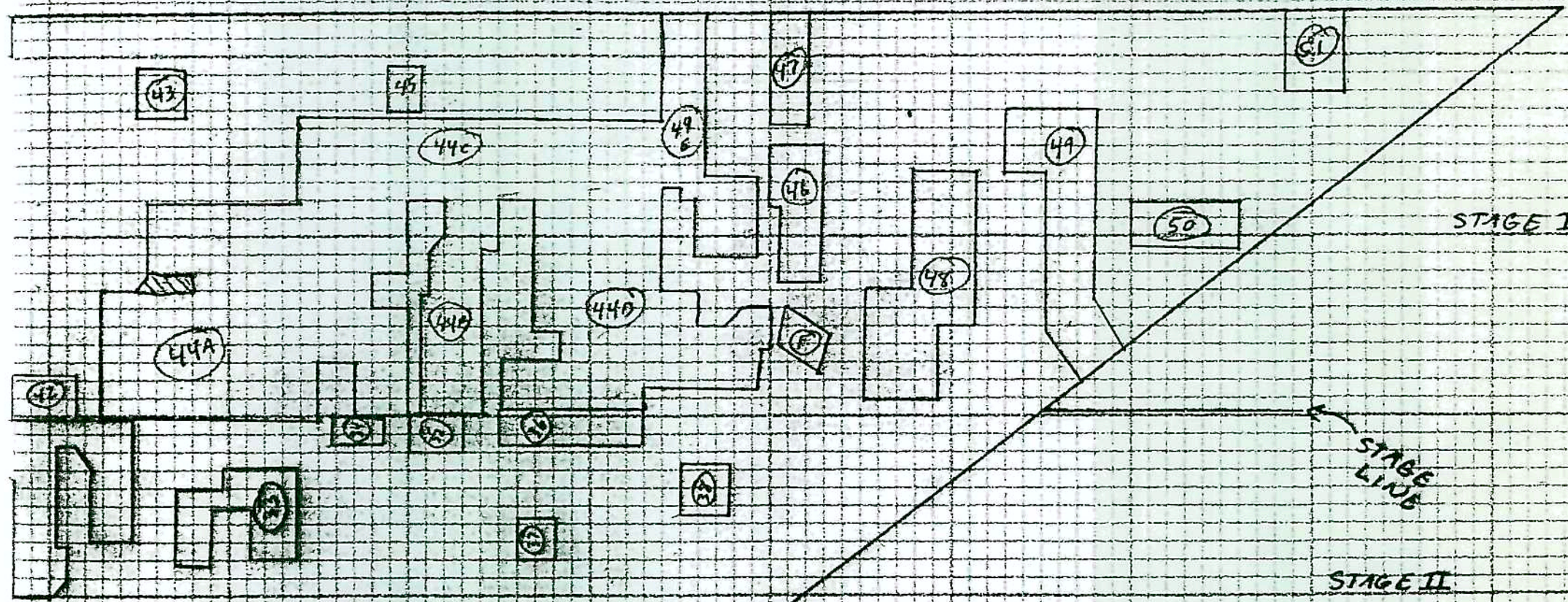
DONE BY: SKP - 11-16-04 -

AL DEPTH

DEPTH

NE CORNER  
293.73

210 220 230 240 250 260 270 280 290 300



210 220 230 240  
238.73  
SE CORNER

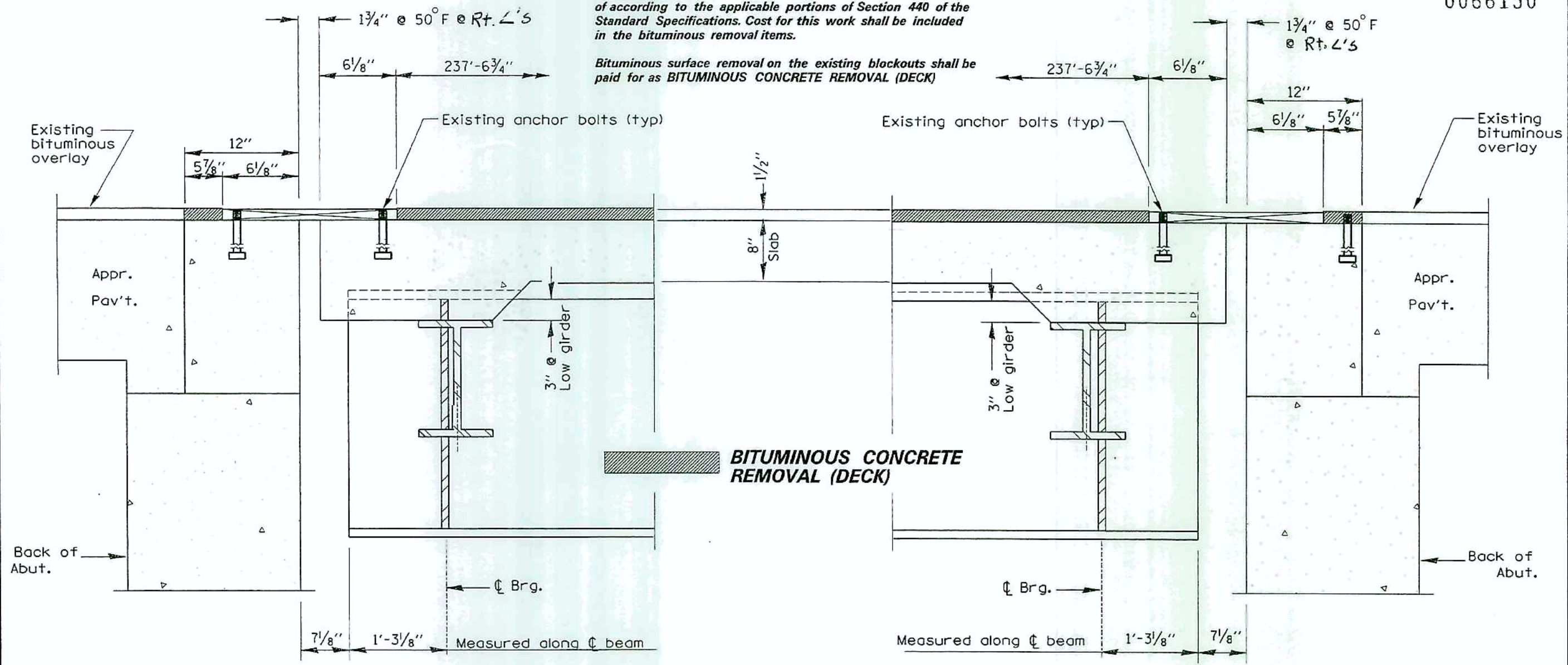
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VBI)	GRUNDY	22	12

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NOTE: Existing anchor bolts shall be cut off flush with the existing concrete surface.

The existing neoprene material shall be removed and disposed of according to the applicable portions of Section 440 of the Standard Specifications. Cost for this work shall be included in the bituminous removal items.

Bituminous surface removal on the existing blockouts shall be paid for as BITUMINOUS CONCRETE REMOVAL (DECK)



SECTION AT WEST ABUTMENT

SECTION AT EAST ABUTMENT

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

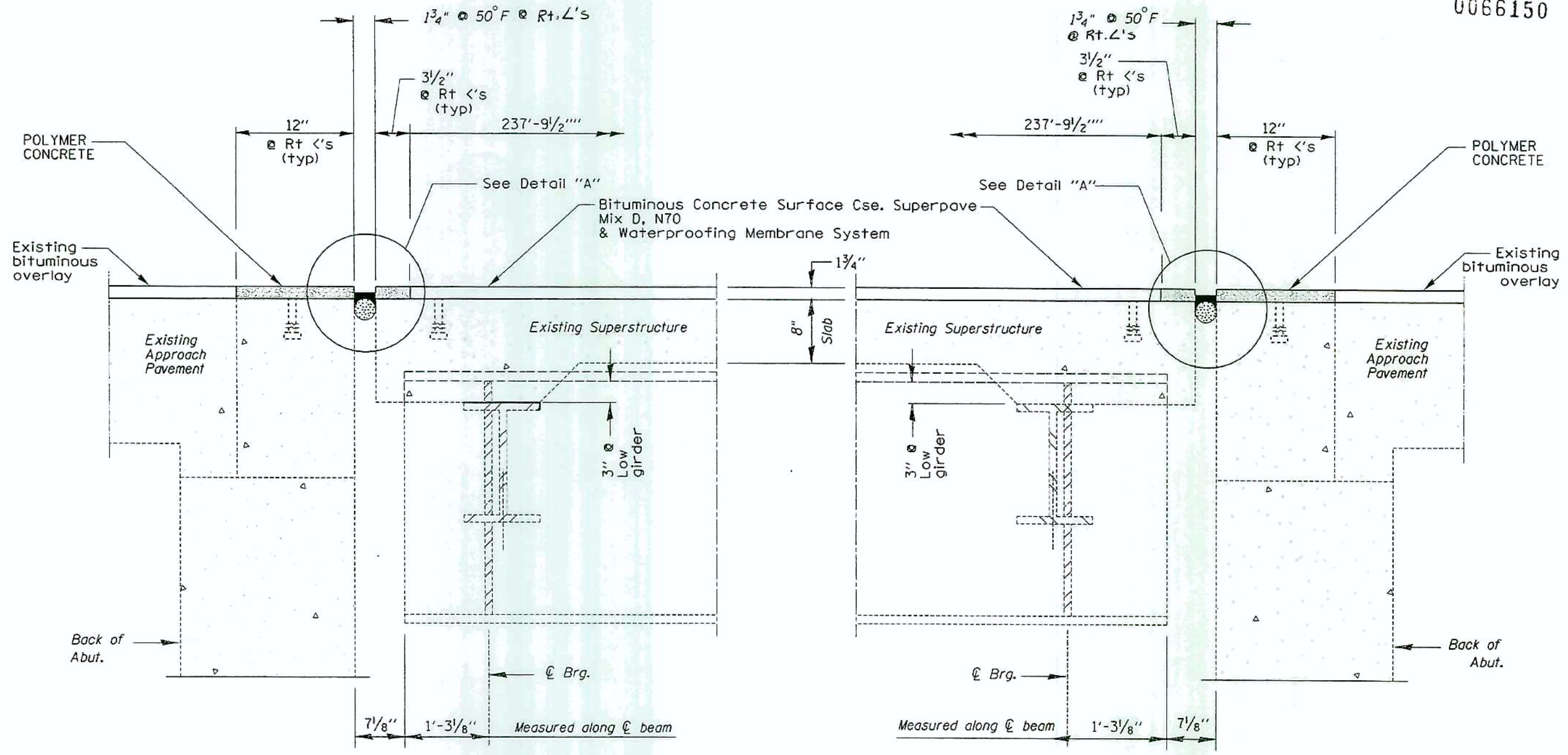
**EXISTING ABUTMENT DETAILS**

SCALE: VERT. DATE 7/30/03  
 HORIZ. DATE 7/30/03  
 DRAWN BY RW  
 CHECKED BY

Rev.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VB1)	GRUNDY	22	13

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**SECTION AT WEST ABUTMENT**

**SECTION AT EAST ABUTMENT**

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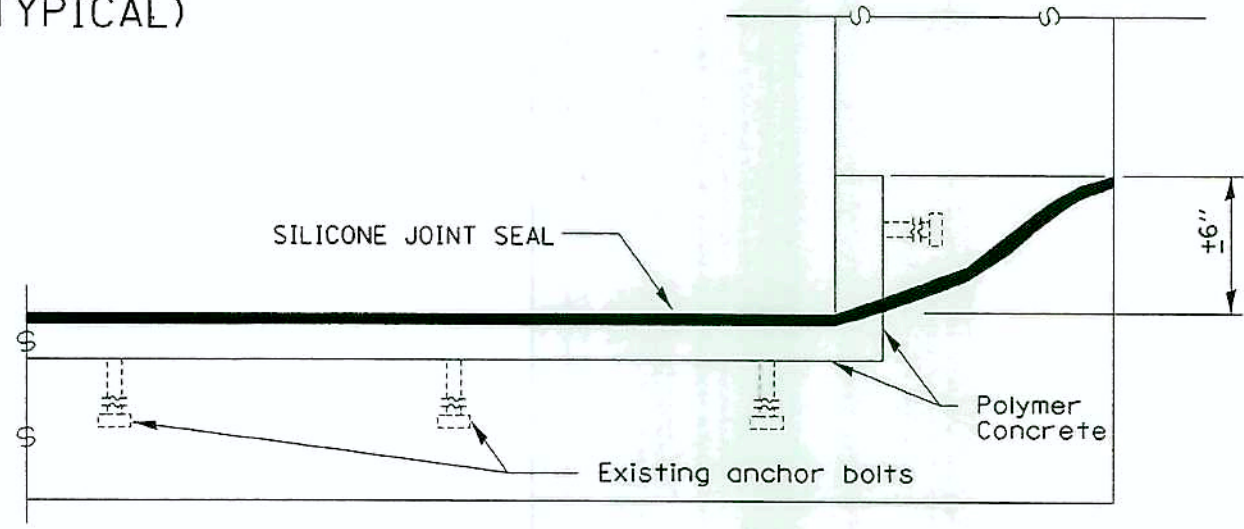
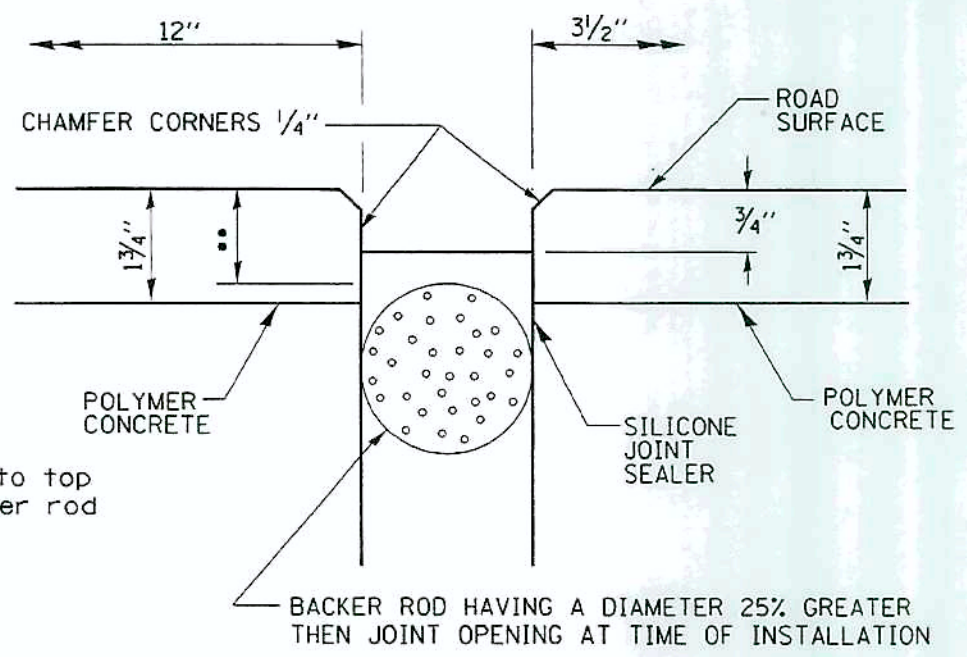
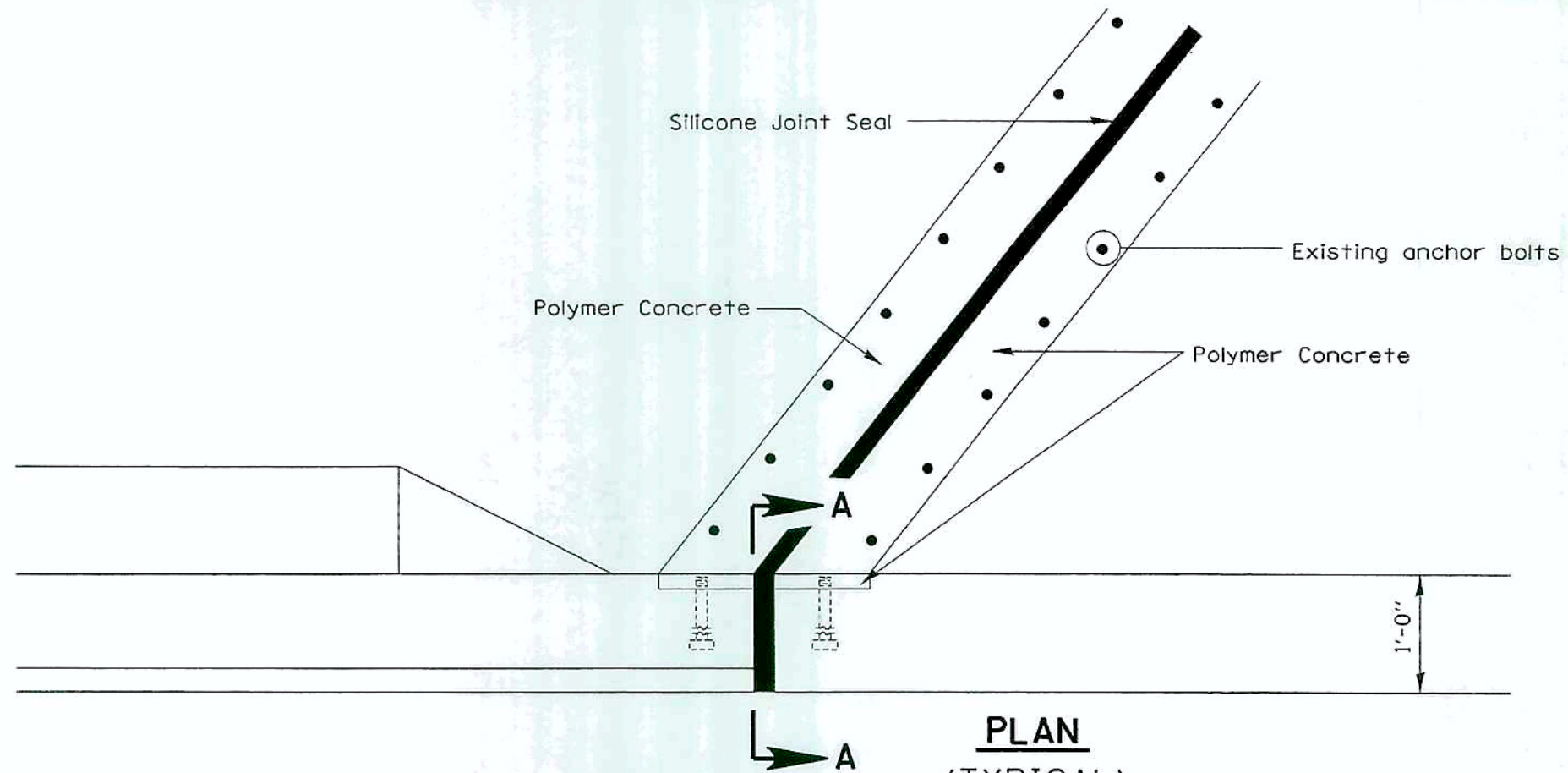
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ABUTMENT DETAILS**  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: 7/30/03  
 DRAWN BY: RW  
 CHECKED BY: \_\_\_\_\_

Rev.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VB1)	GRUNDY	22	14

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXPANSION JOINT DETAILS**

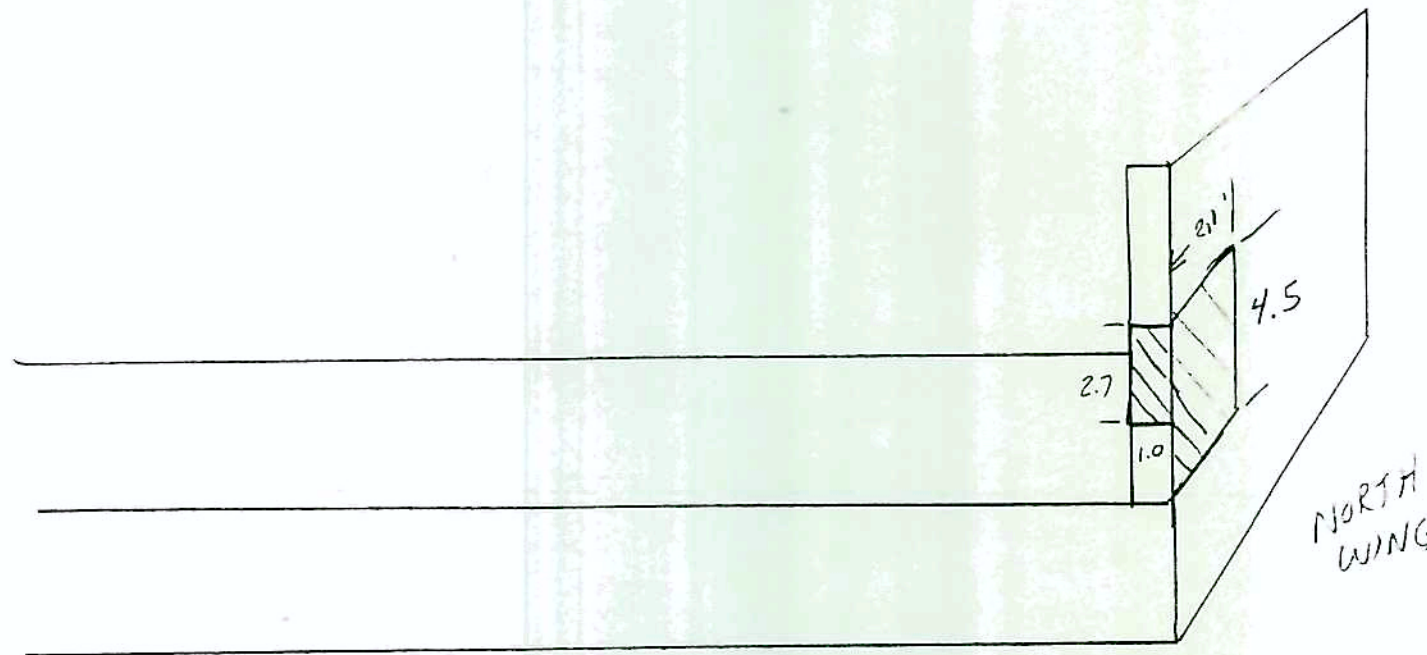
SCALE: VERT. 1"=1'-0"  
HORIZ. 1"=10'-0"  
DATE 7/30/03

DRAWN BY RW  
CHECKED BY





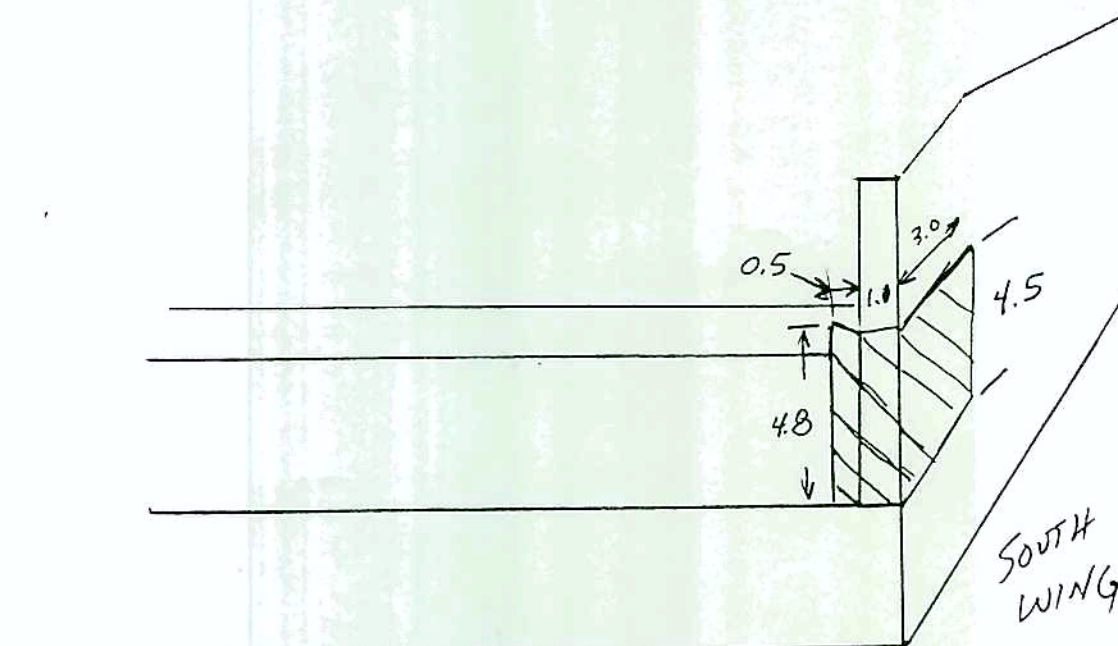
TOTAL -  $33.33 + 57.68 + 54.75 = 145.76$  - PAY 146 Ft<sup>2</sup>



WEST ABUT.

QUANTITY

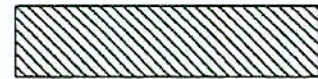
2.7 x 1.0 =	2.7
2.1 x 4.5 =	9.45
0.5 x 4.8 =	2.4
1.1 x 4.8 =	5.28
3.0 x 4.5 =	13.5
	<hr/>
	33.33



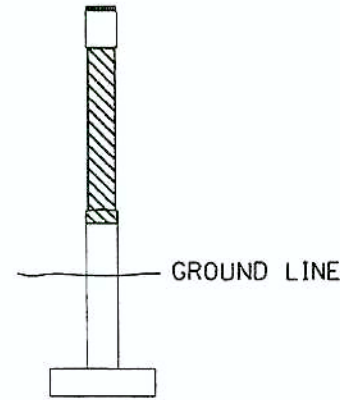
EAST ABUT.

	Initial(s)	Date
DQ # _____		
Meas. By: <u>SM</u>		<u>11/15/04</u>
Calc. By: <u>SM</u>		<u>11/16/04</u>
Chk'd By: _____		

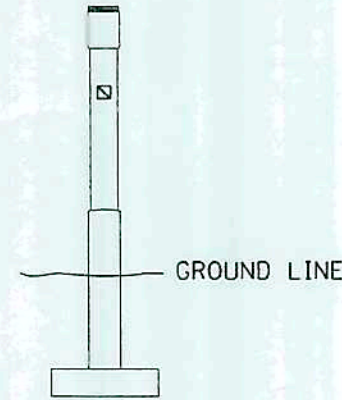
0066150

 FORMED CONCRETE REPAIR  
(DEPTH EQUAL TO OR LESS THAN 5")

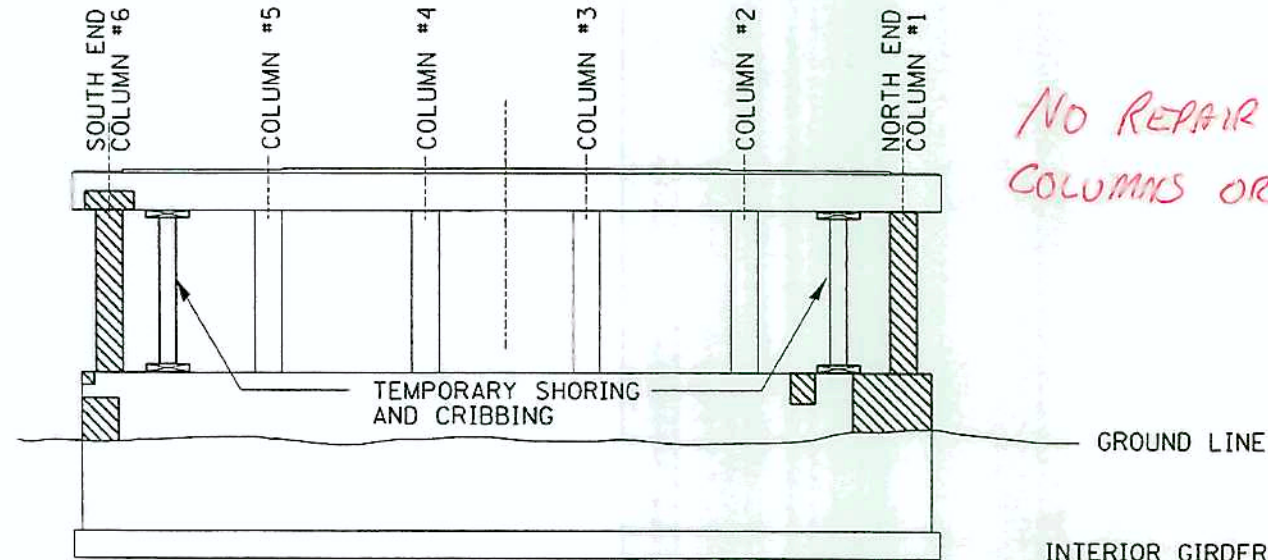
*NO REPAIR DONE TO  
COLUMNS OR CAP.  
SYM.*



**COLUMN #6**  
SOUTH FACE



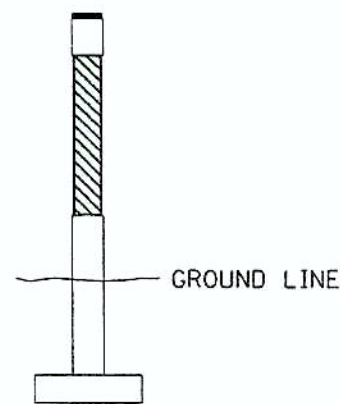
**COLUMN #6**  
NORTH FACE



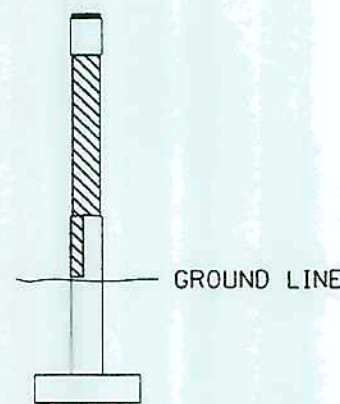
**PIER #1**  
EAST FACE

INTERIOR GIRDER REACTION TABLE

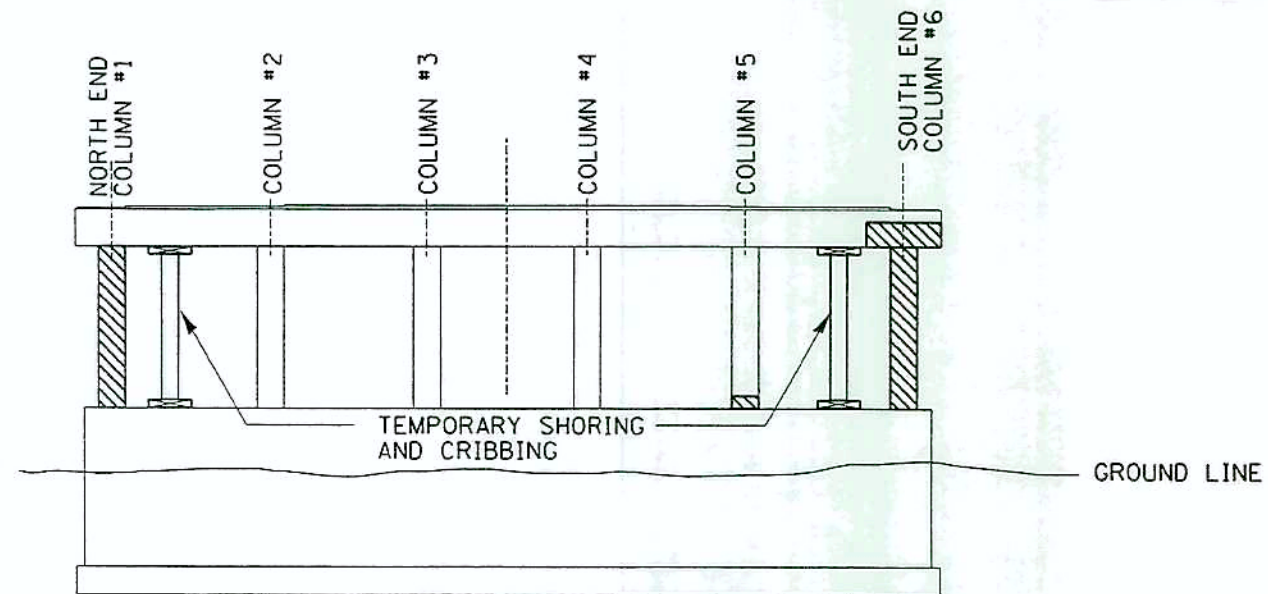
PIER 1 & 2	
R @ (kips)	33.0
R L (kips)	63.0
Imp (kips)	15.0
R Total (kips)	111.0



**COLUMN #1**  
SOUTH FACE



**COLUMN #1**  
NORTH FACE

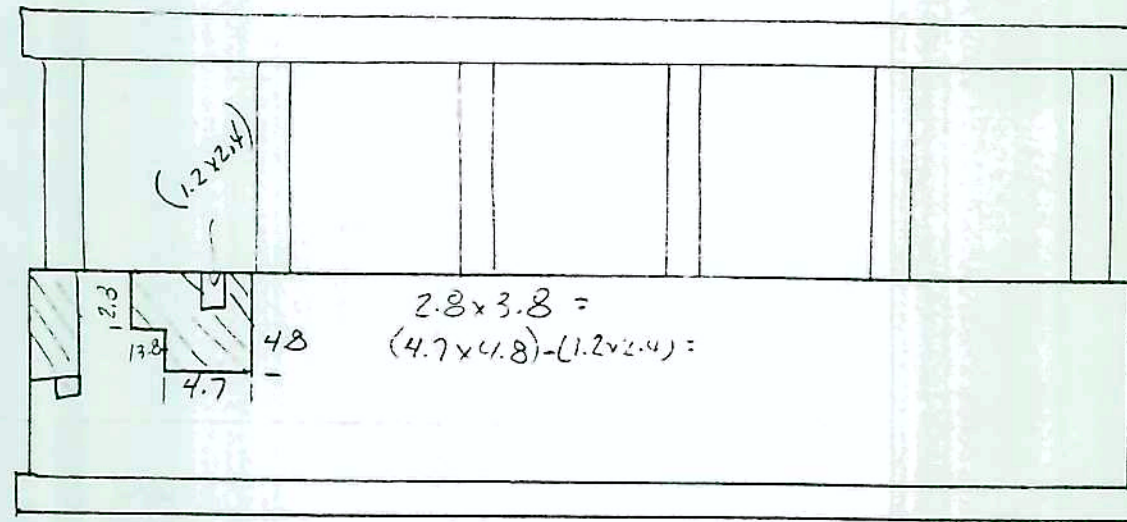


**PIER #1**  
WEST FACE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FORMED CONCRETE REPAIR (PIER 1)**  
SCALE: VERT.      DRAWN BY RW  
          HORIZ.      CHECKED BY  
DATE 7/30/03

2.3 x 5.7  
0.8 x 1.8 =



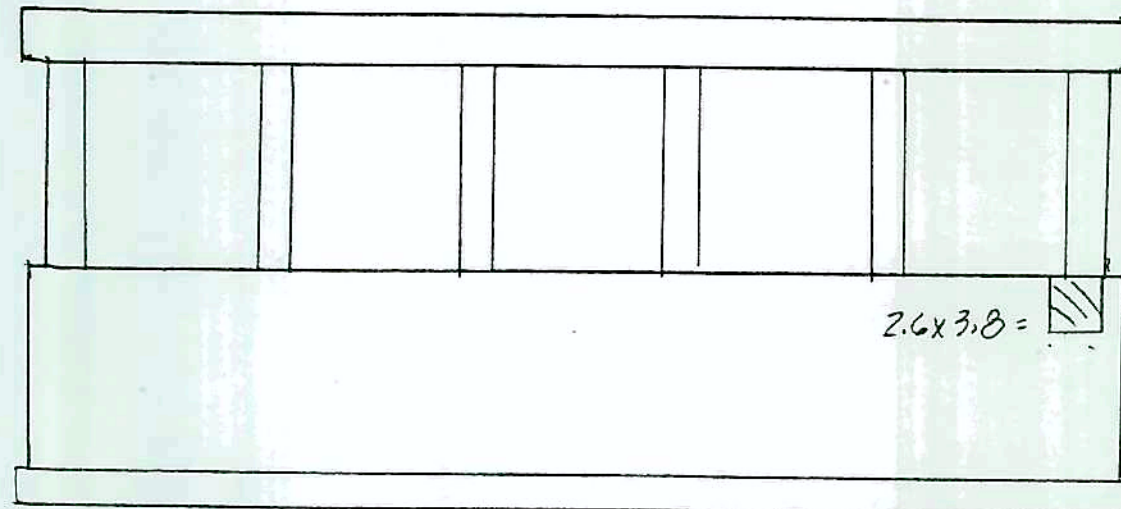
EAST PIER (EAST FACE)

QUANTITY

2.3 x 5.7 = 13.11  
0.8 x 1.8 = 1.44  
2.8 x 3.8 = 10.64  
(4.7 x 4.8) - (1.2 x 2.4) = 19.68  
2.6 x 3.8 = 9.88  

---

54.75



EAST PIER WEST FACE

	Initial(s)	Date
DQ. # _____		
Meas. By: <u>SM</u>		<u>11/15/04</u>
Calc. By: <u>SM</u>		<u>11/16/04</u>
Chk'd By: _____		_____

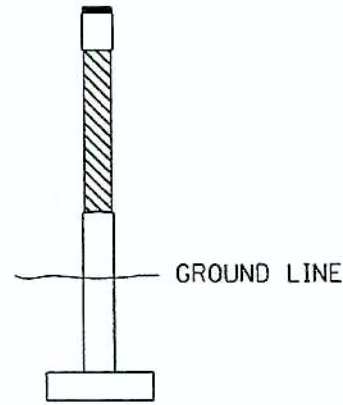
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VB1)	GRUNDY	22	17

0066150

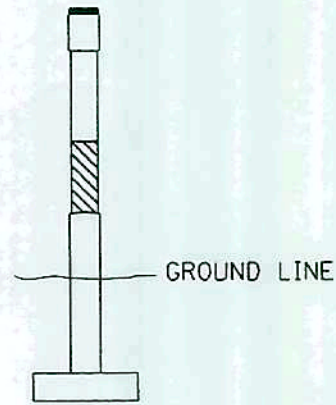
NO REPAIR DONE TO COLUMNS OR CAP.  
SM.



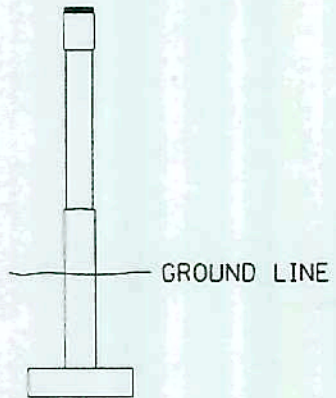
FORMED CONCRETE REPAIR  
(DEPTH EQUAL TO OR LESS THAN 5")



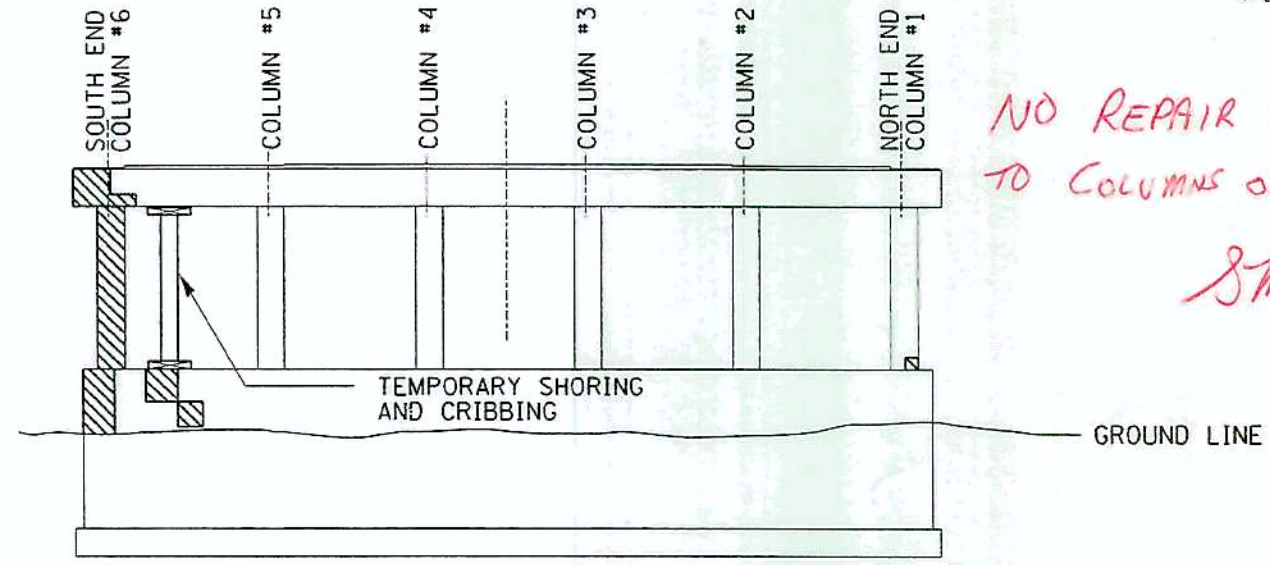
**COLUMN #6**  
SOUTH FACE



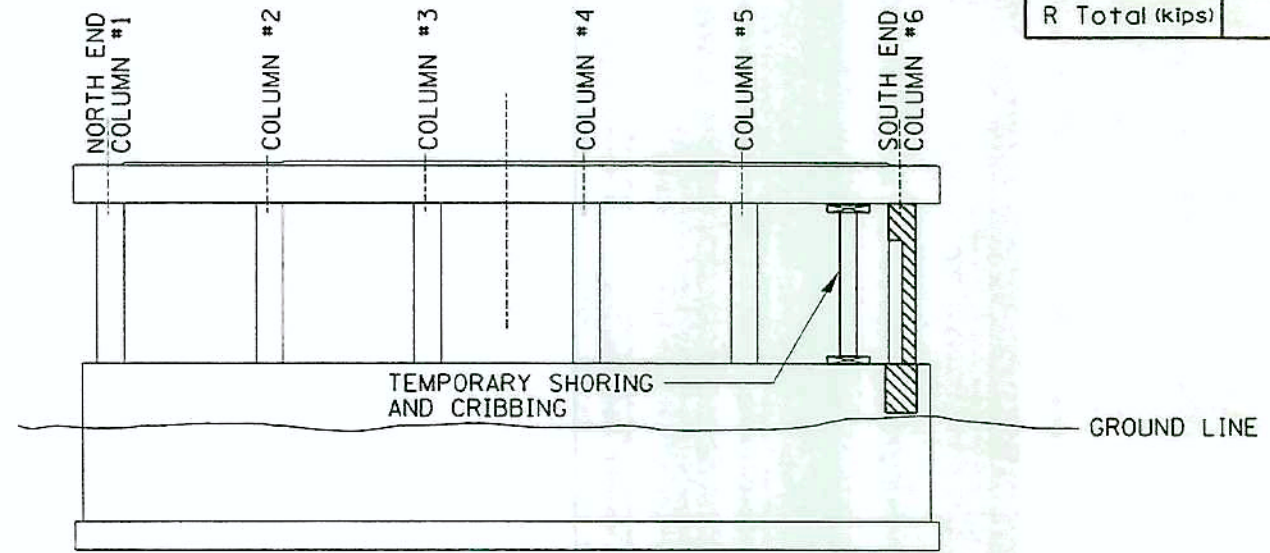
**COLUMN #5**  
SOUTH FACE



**COLUMN #1**  
NORTH FACE



**PIER #2**  
EAST FACE



**PIER #2**  
WEST FACE

INTERIOR GIRDER REACTION TABLE

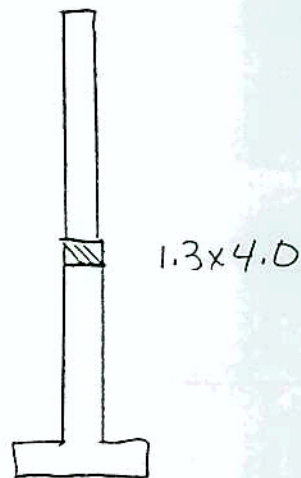
PIER 1 & 2	
R @ (kips)	33.0
R L (kips)	63.0
Imp (kips)	15.0
R Total (kips)	111.0

REVISIONS	NAME	DATE

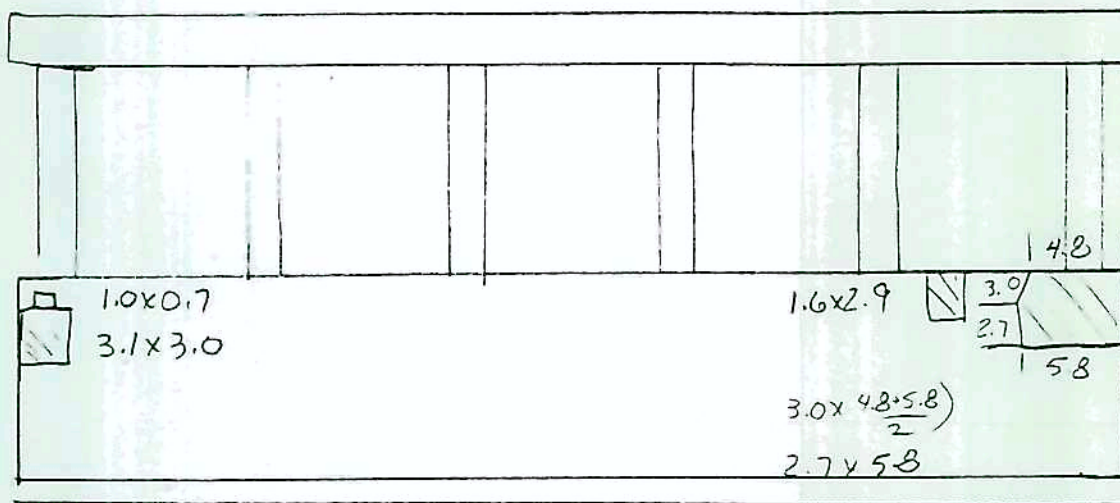
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FORMED CONCRETE REPAIR (PIER 2)**

SCALE: VERT.  
HORIZ.  
DATE 7/30/03

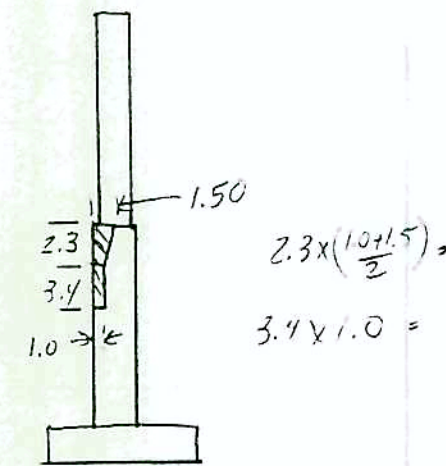
DRAWN BY RW  
CHECKED BY



SOUTH COLUMN



WEST PIER (EAST FACE)



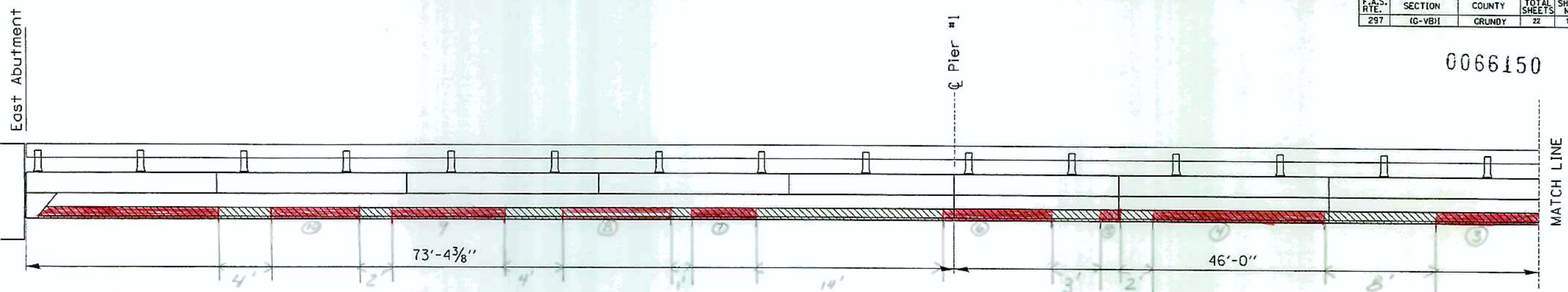
NORTH COLUMN


<u>QUANTITY</u>	
$1.3 \times 4.0 =$	5.2
$1.0 \times 0.7 =$	0.7
$3.1 \times 3.0 =$	9.3
$1.6 \times 2.9 =$	4.64
$3.0 \times \frac{4.8 \times 5.8}{2} =$	15.9
$2.7 \times 5.8 =$	15.66
$1.0 \times 3.4 =$	3.4
$2.3 \times \frac{1.0 + 1.5}{2} =$	2.88
	<hr/>
	57.68


	Initial(s)	Date
DQ. # _____		
Meas. By: <u>SM</u>		<u>11/15/04</u>
Calc. By: <u>SM</u>		<u>11/16/04</u>
Chk'd By: _____		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VB1)	GRUNDY	22	18

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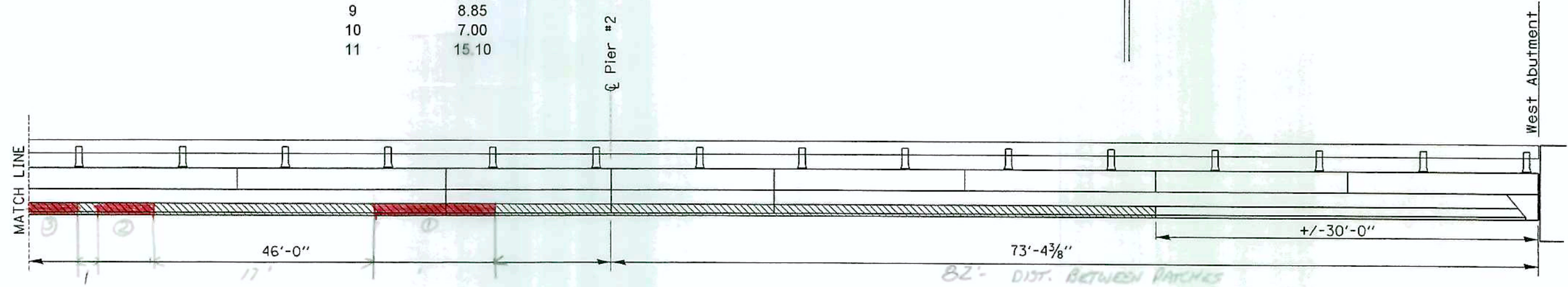
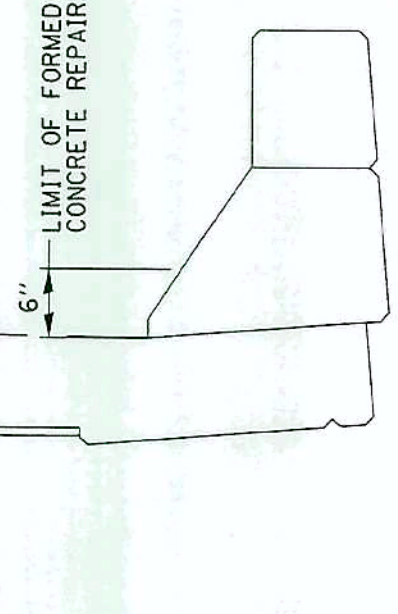


 FORMED CONCRETE REPAIR  
(DEPTH EQUAL TO OR LESS THAN 5")

 - PATCHED AREAS

**ELEVATION**

Patch Location	Length (FT.)
1	9.35
2	4.35
3	11.95
4	13.45
5	1.45
6	8.48
7	5.00
8	8.40
9	8.85
10	7.00
11	15.10



**ELEVATION**

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FORMED CONCRETE REPAIR**  
**(SOUTH PARAPET)**

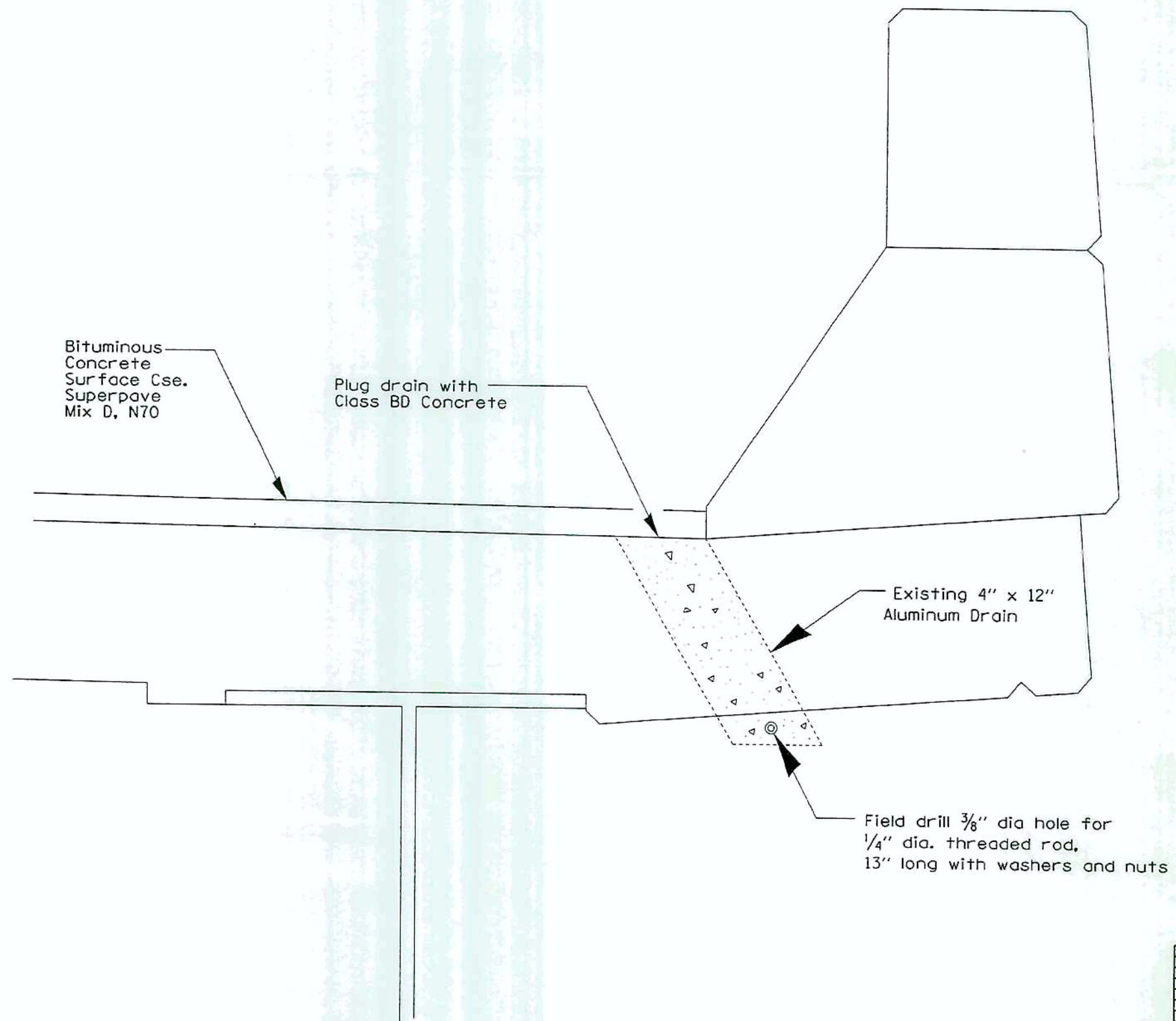
SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE 7/30/03

DRAWN BY RW  
 CHECKED BY \_\_\_\_\_

82'- DIST. BETWEEN PATCHES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VBI)	GRUNDY	22	19

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ILLINOIS DEPARTMENT OF TRANSPORTATION

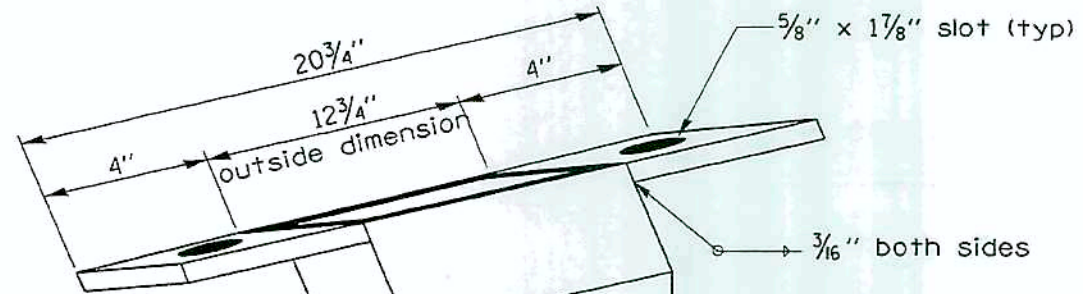
**DECK DRAIN DETAILS  
(PLUGGING)**

SCALE: VERT.      DRAWN BY RW  
 HORIZ.              CHECKED BY  
 DATE 7/30/03

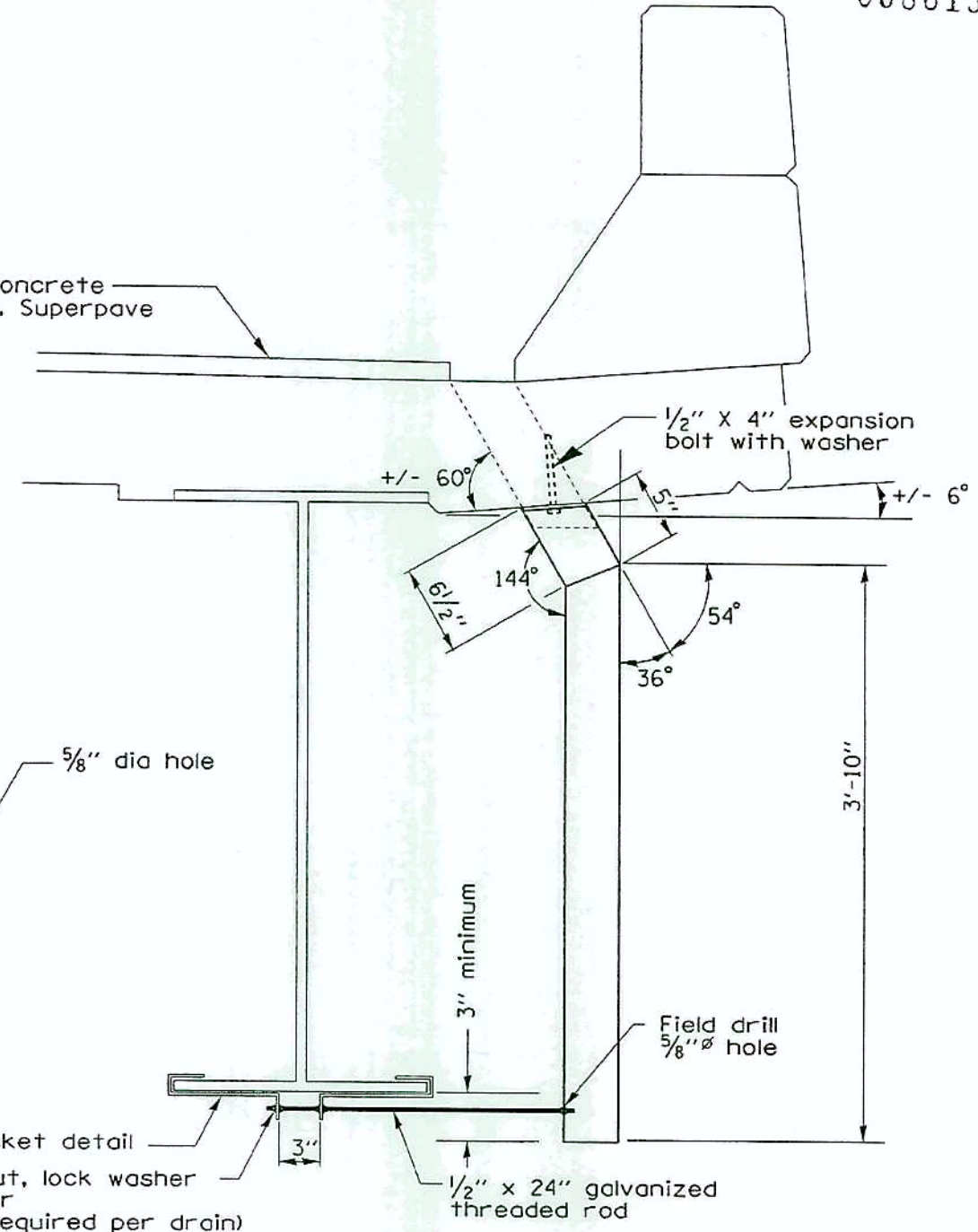


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VB)	GRUNDY	22	20

0066150

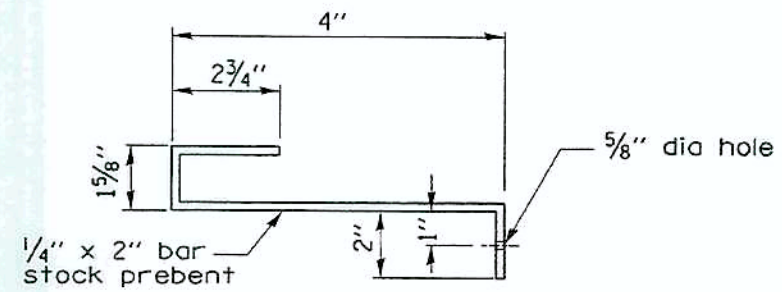


Bituminous Concrete  
Surface Cse. Superpave  
Mix D, N70



1/4" x 12 1/4" x 4 1/4" I.D.

- 1. Aluminum Sheets Welded  
ASTM: B209 Alloy 6061-T6  
OR
- 2. Aluminum Extrusions  
ASTM: B221 Alloy 6061-T6



**BRACKET DETAIL**  
2 REQUIRED PER DRAIN

see bracket detail  
galvanized nut, lock washer  
& flat washer  
(6 of each required per drain)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

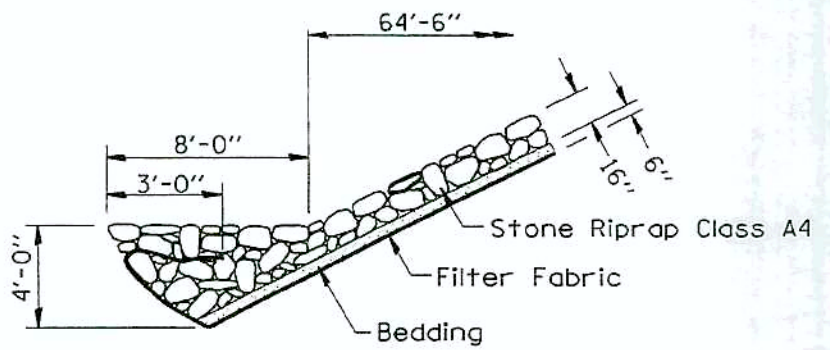
**DECK DRAIN DETAILS  
(EXTENSIONS)**

SCALE: VERT.  
HORIZ.  
DATE 1/30/03

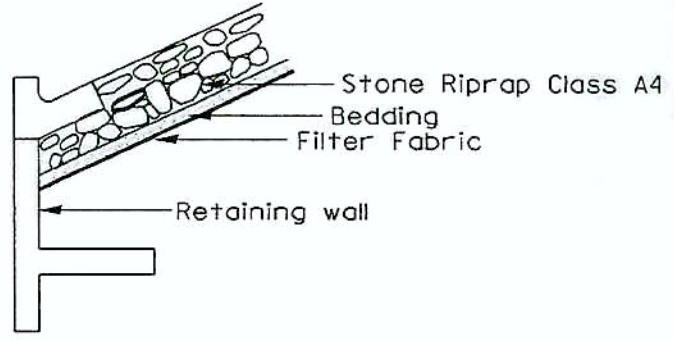
DRAWN BY RW  
CHECKED BY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	(G-VBII)	GRUNDY	22	21

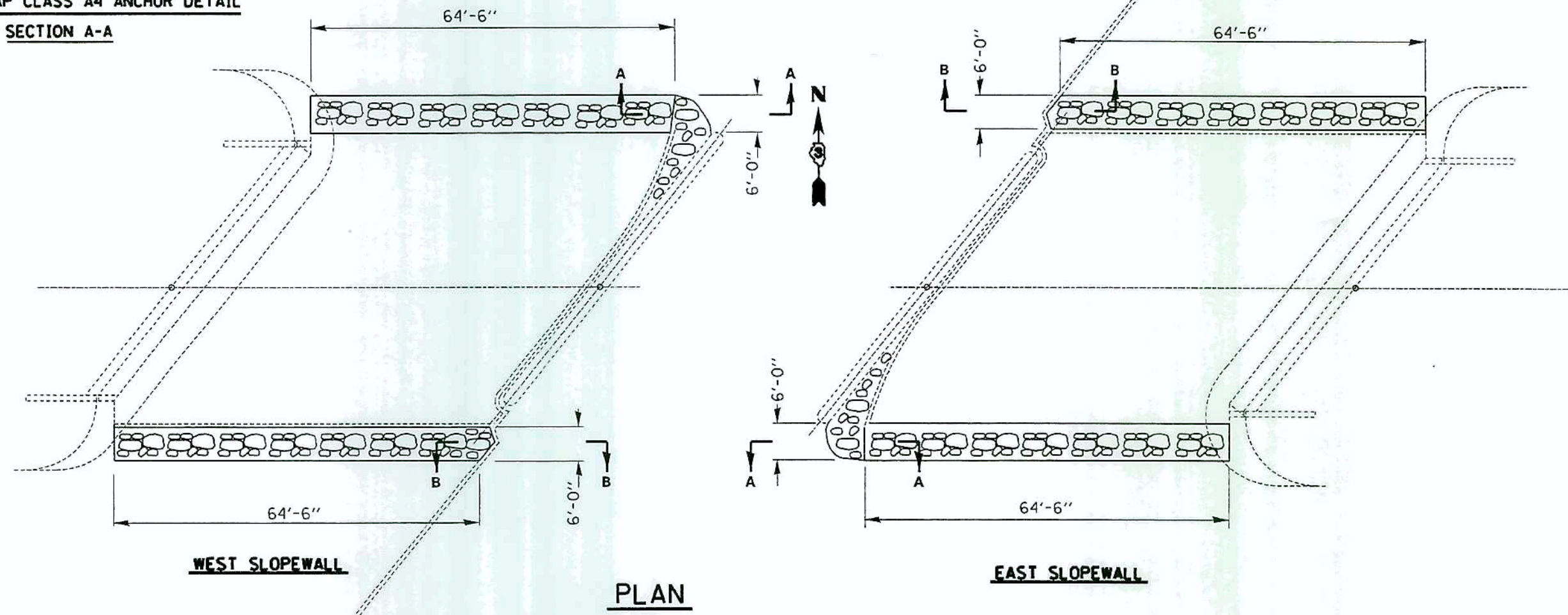
0066150



**STONE RIPRAP CLASS A4 ANCHOR DETAIL**  
**SECTION A-A**



**SECTION B-B**



**WEST SLOPEWALL**

**PLAN**

**EAST SLOPEWALL**

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**RIPRAP DETAILS**  
SCALE: VERT. 1"=10'  
HORIZ. 1"=20'  
DATE: 7/30/03  
DRAWN BY: RW  
CHECKED BY: