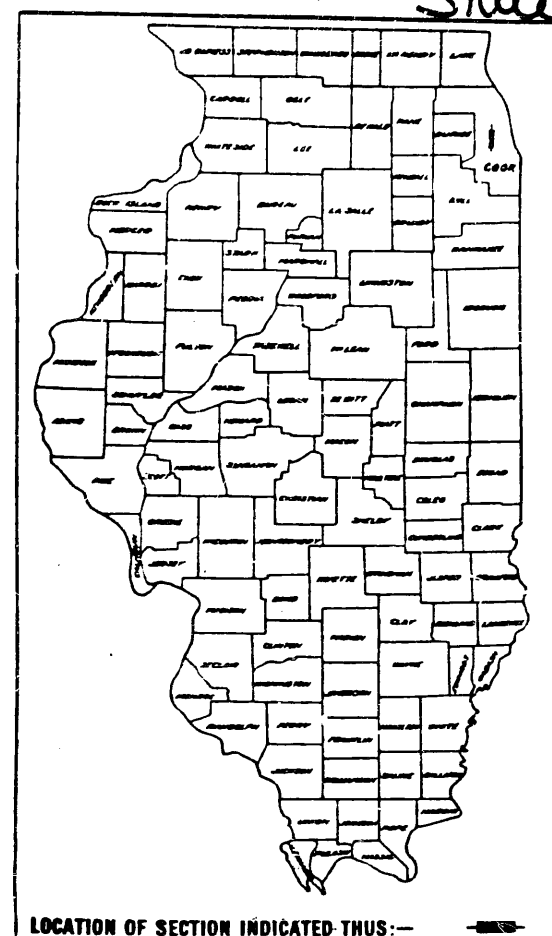


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY
 F.A.I. ROUTE I-290 (EISENHOWER EXPRESSWAY)
 SECTION 1983-042BR - COOK COUNTY
 PROJECT: I-IR-290-4(11)96
LOOMIS ST., PAULINA ST., OGDEN AVE.,
DAMEN AVE. & LEAVITT ST.
OVER
EISENHOWER EXPRESSWAY
BRIDGE REHABILITATION
 C-91-059-80

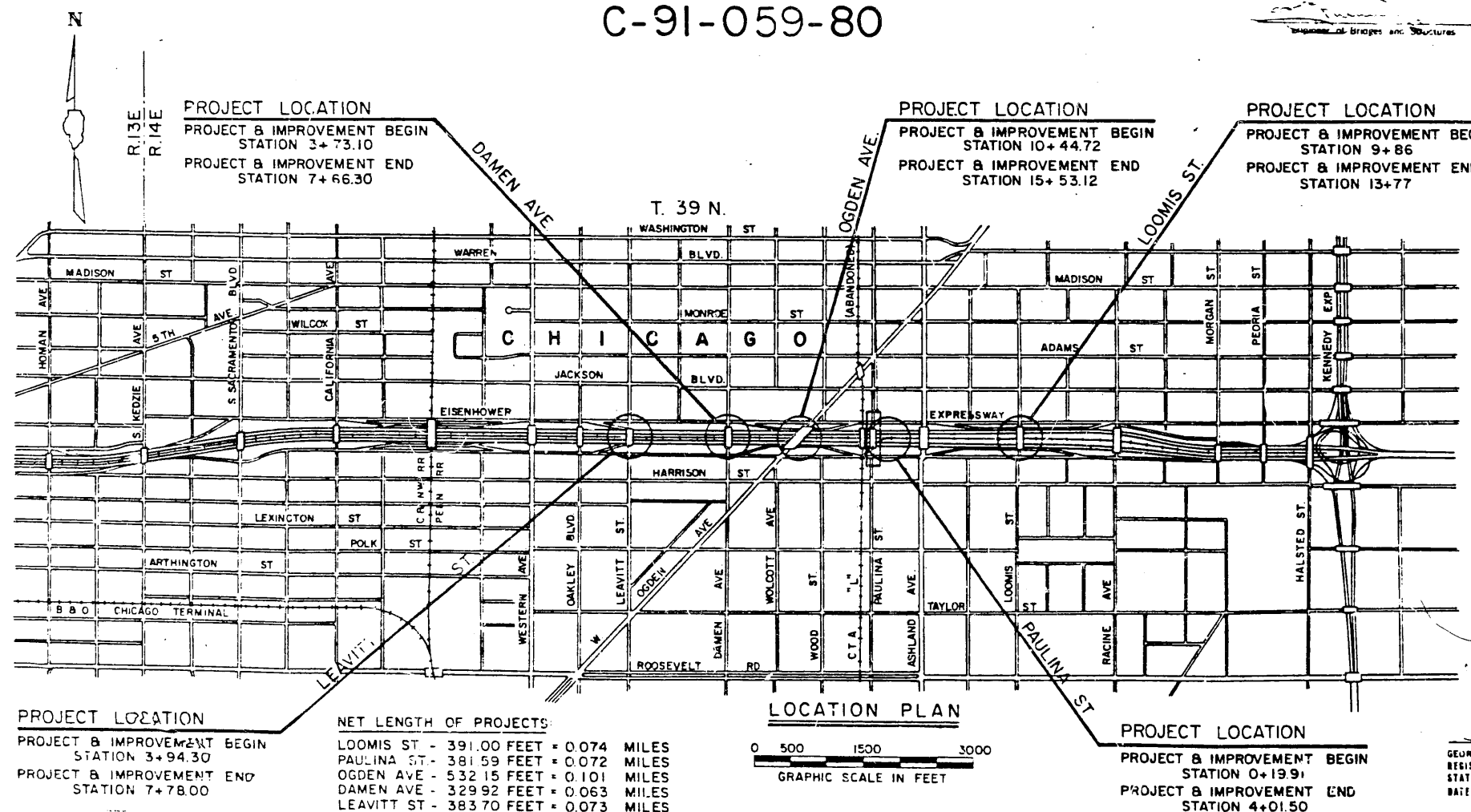
I-290 1983-042BR COOK 113 1
 PER ROAD REV. NO. 4 11/18/83 11/18/83



APPROVED
 FOR ST. & BRIDGE ONLY
 Department of Bridges and Structures

DESCRIPTION OF IMPROVEMENT

THE IMPROVEMENT CONSISTS OF REHABILITATING THE STRUCTURES CARRYING LOOMIS STREET, PAULINA STREET, OGDEN AVENUE, DAMEN AVENUE AND LEAVITT STREET OVER F.A.I.-290. INCLUDED IS THE REMOVAL OF THE EXISTING BITUMINOUS SURFACING ON THE DECK AND APPROACH PAVEMENTS; THE RAISING OF THE EXISTING SUPERSTRUCTURE; THE PATCHING OF THE CONCRETE DECK; THE REMOVAL AND REPLACEMENT OF THE CONCRETE DECK AND SIDEWALK AT DAMEN AVENUE; CONSTRUCTING A NEW CONCRETE PARAPET WITH FENCE; THE REMOVAL AND REPLACEMENT OF THE TRANSVERSE EXPANSION JOINTS AT THE ABUTMENTS, REMOVING THE EXISTING CONCRETE DECK BY SCARIFICATION; PLACING A BRIDGE DECK OVERLAY; THE REPLACEMENT OF THE EXISTING BEARINGS (EXPANSION) WITH ELASTOMERIC BEARINGS AT DAMEN AVENUE; THE REHABILITATION OF THE EXISTING SUBSTRUCTURE, THE REMOVAL AND ELIMINATION OF THE LONGITUDINAL EXPANSION JOINT AT LOOMIS STREET AND OGDEN AVENUE; THE REMOVAL AND REPLACEMENT OF THE SIDEWALK ON THE APPROACHES; THE REMOVAL AND REPLACEMENT OF TWO DAMAGED STEEL BEAMS AT PAULINA STREET



STRUCTURE NO	
LOOMIS ST	016-2114
PAULINA ST	016-0098
OGDEN AVE	016-0235
DAMEN AVE	016-2080
LEAVITT ST	016-2079

PROJECT LOCATION	NET LENGTH OF PROJECTS
PROJECT & IMPROVEMENT BEGIN STATION 3+73.10	LOOMIS ST - 391.00 FEET = 0.074 MILES
PROJECT & IMPROVEMENT END STATION 7+66.30	PAULINA ST - 381.59 FEET = 0.072 MILES
	OGDEN AVE - 532.15 FEET = 0.101 MILES
	DAMEN AVE - 329.92 FEET = 0.063 MILES
	LEAVITT ST - 383.70 FEET = 0.073 MILES

LOCATION PLAN
 0 500 1500 3000
 GRAPHIC SCALE IN FEET

PROJECT LOCATION
PROJECT & IMPROVEMENT BEGIN STATION 0+19.91
PROJECT & IMPROVEMENT END STATION 4+01.50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JUNE 23 1983
 EXAMINED 7-1 1983
 PASSED 7-1 1983
 APPROVED 7-1 1983

DISTRICT ENGINEER
 ENGINEER OF PLANS AND CONTRACTS
 ENGINEER OF RECORD
 DIRECTOR DIVISION OF HIGHWAYS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED Jay W. Miller 7/18/83
 DIVISION ADMINISTRATOR
 PLANS PREPARED BY:
 PRC CONSOER TOWNSEND, INC.
 CONSULTING ENGINEERS
 CHICAGO, ILLINOIS

GEORGE D. WEAR
 REGISTERED STRUCTURAL ENGINEER
 STATE OF ILLINOIS NO. 2235
 DATE 7-18-83

COMPLETELY REVISED SET 7-18-8

QUANTITIES FOR LEAVITT STREET

CC DE NO.	ITEM	UNIT	QUANTITY	SECTION 1983 - 0 42 BR	
				BRIDGE STA. 5+87.65	ROADWAY STA. 3+94.30 TO STA. 7+78.00
				CONSTRUCTION	TYPE CODE
				X531	1000
213011	SUB-BASE GRANULAR MATERIAL, TYPE B	CU. YD.	5		5
406004	BITUMINOUS MATERIAL (PRIME COAT)	GALLON	47		47
406005	LEVELING BINDER (MACHINE METHOD)	TON	82		82
406013	BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D; CLASS I	TON	37		37
501024	CONCRETE REMOVAL	CU. YD.	14	14	
503003	PROTECTIVE COAT	SQ. YD.	275	35	240
504003	CLASS X CONCRETE	CU. YD.	45.4	45.4	
507004	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	10,840	10,840	
508006	ALUMINUM RAILING, TYPE L	LIN. FT.	169	169	
509010	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L. SUM	1	1	
512001	REINFORCEMENT BARS	POUND	8,100	8,100	
512002	REINFORCEMENT BARS (EPOXY COATED)	POUND	10,800	10,800	
612555	MANHOLES TO BE ADJUSTED	EACH	6		6
612601	INLETS TO BE ADJUSTED	EACH	4		4
617010	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ. YD.	1,265	1,265	600
617017	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	LIN. FT.	310		310
617046	SIDEWALK REMOVAL AND REPLACEMENT	SQ. FT.	2,100		2,100
620031	PAVEMENT REMOVAL AND P.C.C. REPLACEMENT, TYPE I (10")	SQ. YD.	10		10
620063	PAVEMENT REMOVAL AND P.C.C. REPLACEMENT, SPL. (10")	SQ. YD.	37		37
620003	CHAIN LINK FENCE, 6 FT. (BRIDGE)	LIN. FT.	515	515	
646004					
646017	TRAFFIC CONTROL AND PROTECTION	L. SUM	.14	.04	.10
750102	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	LIN. FT.	220		220
750104	THERMOPLASTIC PAVEMENT MARKING-LINE 6"	LIN. FT.	480		480
750107	THERMOPLASTIC PAVEMENT MARKING-LINE 24"	LIN. FT.	106		106
750202	PAINT PAVEMENT MARKING-LINE 4"	LIN. FT.	650		650
Z10041	BRIDGE SIDEWALK REPAIR (PARTIAL DEPTH)	SQ. FT.	15	15	
Z10181	DECK SLAB REPAIR (PARTIAL DEPTH)	SQ. FT.	412	412	
Z10280	NEOPRENE EXPANSION JOINT 2 1/2"	LIN. FT.	120	120	
Z10375	REPAIR CONCRETE STRUCTURES	SQ. FT.	167	167	
X04748	MOBILIZATION	L. SUM	.14	.14	
X61641	TEMPORARY CONCRETE BARRIER, TERMINAL SECTION	EACH	2		2
X64711	PAVEMENT MARKING TAPE TYPE III 4"	LIN. FT.	6,758		6,758
XZ1264	EXPANSION TIE ANCHOR 3/4"	EACH	58		58
XZ1361	EPOXY CRACK SEALING	LIN. FT.	182	182	
	JACKING EXISTING STRUCTURE NO. 5	L. SUM	1	1	
	CONCRETE DECK SCARIFICATION 13/4"	SQ. YD.	1,265	1,265	
	BRIDGE DECK CONCRETE OVERLAY	SQ. YD.	1,265	1,265	
	BRIDGE HANDRAIL REMOVAL	LIN. FT.	684	684	
	BRIDGE SIDEWALK CRACK REPAIR	LIN. FT.	30	30	
	EXPANSION TIE ANCHOR 5/8"	EACH	128	128	
	PROTECTIVE SHIELD	SQ. YD.	254	254	
	PROTECT AND MAINTAIN EXISTING UNDERPASS LUMINAIRES	L. SUM	.20	.20	
	INSTALL AND REMOVE TEMPORARY CONCRETE BARRIER	UNIT	88		88
	PAVEMENT MARKING REMOVAL, LINE	LIN. FT.	1,450		1,450
	REMOVE AND RE-ERECT BRIDGE MOUNTED SIGN	EACH	1	1	

TOTAL BILL OF MATERIAL - BRIDGE

ITEM	UNIT	QUANTITY		
		SUBSTRUCTURE	SUPERSTRUCTURE	TOTAL
CONCRETE REMOVAL	CU. YD.	8	6	14
BRIDGE HANDRAIL REMOVAL	LIN. FT.	169	515	684
PROTECTIVE COAT	SQ. YD.	11	24	35
CLASS "X" CONCRETE	CU. YD.	14.7	30.7	45.4
ALUMINUM RAILING, TYPE 'L'	LIN. FT.	169		169
CLEANING AND PAINTING STEEL BRIDGE NO. 5	L. SUM.		1	1
REINFORCEMENT BARS	POUND	2,130	5,970	8,100
REINFORCEMENT BARS (EPOXY COATED)	POUND		10,800	10,800
BRIDGE SIDEWALK REPAIR (PARTIAL DEPTH)	SQ. FT.		15	15
BRIDGE SIDEWALK CRACK REPAIR	LIN. FT.		30	30
BITUMINOUS CONCRETE SURFACE REMOVAL	SQ. YD.		1,265	1,265
PROTECTIVE SHIELD	SQ. YD.		254	254
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.		412	412
REPAIR CONCRETE STRUCTURES	SQ. FT.	167		167
EPOXY CRACK SEALING	LIN. FT.	182		182
CONCRETE DECK SCARIFICATION 13/4"	SQ. YD.		1,265	1,265
BRIDGE DECK CONCRETE OVERLAY	SQ. YD.		1,265	1,265
JACKING EXISTING STRUCTURE NO. 5	L. SUM		1	1
NEOPRENE EXPANSION JOINT 2 1/2"	LIN. FT.		120	120
CHAIN LINK FENCE, 6 FT. (BRIDGE)	LIN. FT		515	515
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND		10,840	10,840
REMOVE AND RE-ERECT BRIDGE MOUNTED SIGN	EACH		2	2

DESIGN STRESSES

DESIGN LIVE LOAD: HS 20-44

DESIGN STRESSES (PROPOSED):

$f_s = 24,000$ PSI REINFORCEMENT
 $f_s = 20,000$ PSI NEW STRUCTURAL STEEL A.A.S.H.T.O. M183
 $f_c = 1,400$ PSI
 $n = 9$

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS $\frac{3}{4}"$ Ø, OPEN HOLES $1\frac{1}{16}"$ Ø, UNLESS OTHERWISE NOTED.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. M-31 OR M-53 GRADE 60.

THE BASIC LEAD SILICO CHROMATE SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH CONCRETE
OVERLAY IS APPLIED.

ESTIMATED WEIGHT OF EXISTING STRUCTURAL STEEL - 893,623 LBS. TOTAL

EXISTING UNDERPASS LUMINAIRES WHICH ARE ATTACHED TO UNDERSIDE OF BRIDGE, SHALL BE MAINTAINED OPERATIONAL THROUGHOUT THE DURATION OF THE CONTRACT AND PROTECTED FROM DAMAGE DURING REPAIR OF DECK OPERATIONS. FOR DETAILS, SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST USE EXTREME CARE WHEN DOING CONCRETE REMOVAL AS NOT TO NICK, CUT OR DAMAGE ANY OF THE STRUCTURAL STEEL.

INDEX OF SHEETS

- 1E QUANTITIES AND GENERAL NOTES
2E GENERAL PLAN AND ELEVATION
3E PLAN AND ELEVATION - SUPERSTRUCTURE RAISING
4E SECTION AND DETAILS - SUPERSTRUCTURE RAISING
5E SHIM PLATES AND DETAILS - SUPERSTRUCTURE RAISING
6E DECK PLAN AND SECTION
7E DECK DETAILS
8E DECK CONCRETE REPAIR
9E PARAPET AND RAILING DETAILS
10E ABUTMENTS AND WINGWALLS
11E PIERS
12E BRIDGE MOUNTED SIGN DETAILS
13E PAVEMENT MARKING
14E TRAFFIC CONTROL - LEAVITT STREET
15E TRAFFIC CONTROL - LEAVITT STREET

STANDARDS

- 1686 SYMBOLS AND ABBREVIATIONS
2298 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2299 DESIGN OF TRAFFIC CONTROL DEVICES
2300 FLAGGER TRAFFIC CONTROL SIGN

2130 CONCRETE CURB AND COMBINATION CURB AND GUTTER MOULD FOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
QUANTITIES AND GENERAL NOTES
STRUCTURE REHABILITATION
PROJECT I-IR-290-4()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT ST.

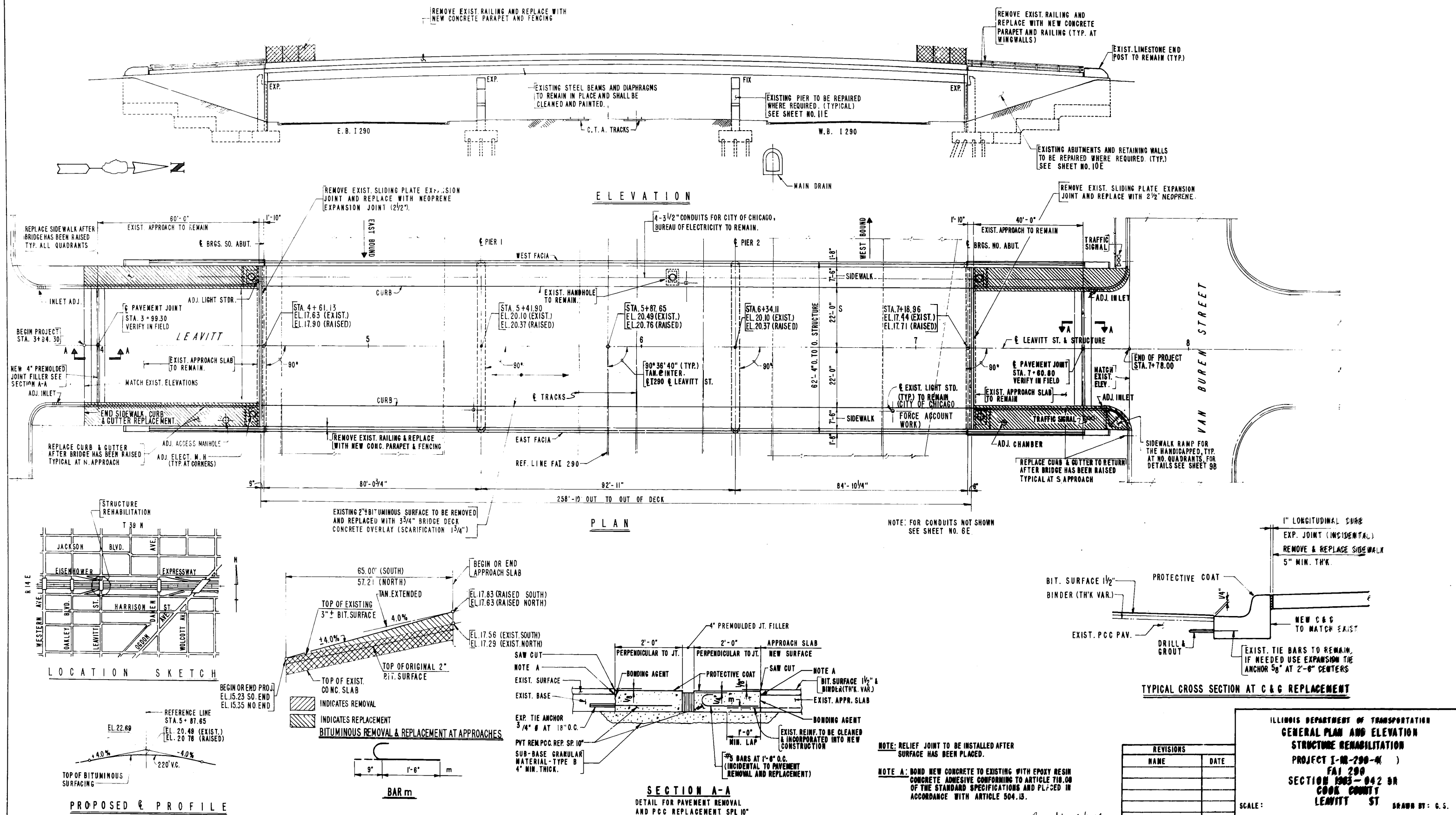
SCALE:
DATE JUNE 1983

DRAWN BY: G.S.
CHECK BY: C.W.W.

WEST HD. BOLT OF HYDRANT AT SW CORNER
LEAVITT AND CONGRESS PARKWAY. ELEV. 15.30

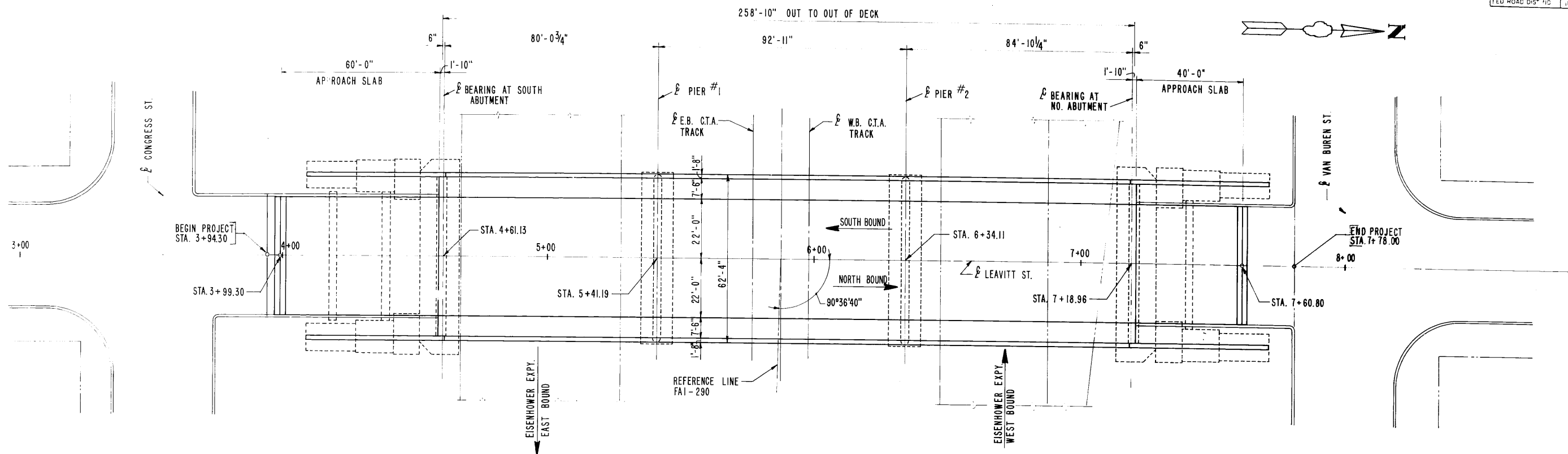
NORTH HD. BOLT OF HYDRANT AT NE CORNER
LEAVITT AND VAN BUREN. ELEV. 15.31

3 SPAN CONTINUOUS STEEL WIDE FLANGE BEAMS WITH CONCRETE DECK SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. FOUNDATIONS SUPPORTED ON CREOSOTED LUMBER PILES

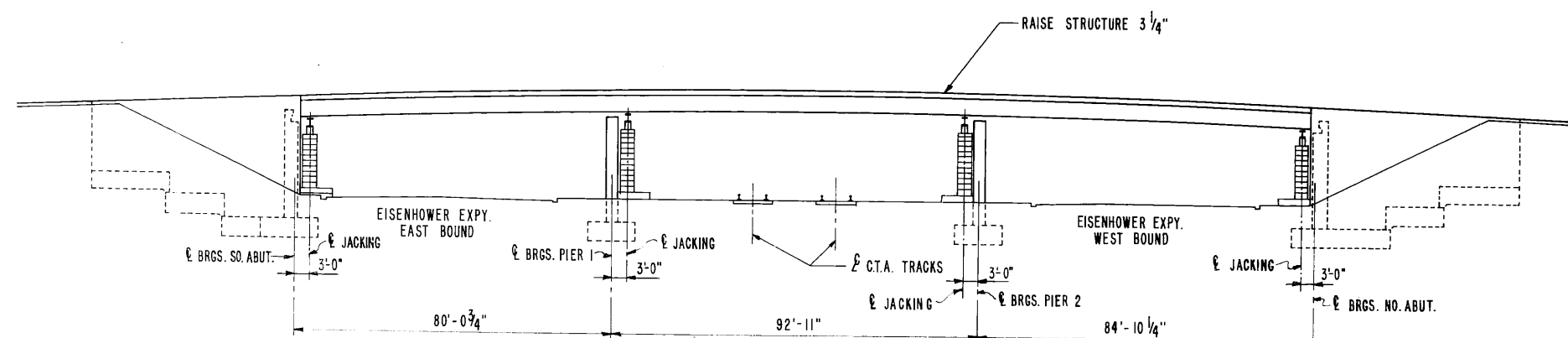


ROUTE NO.	SECTION	TOTAL SHEETS	SHEET NO.
FAI 290	1983-042 BR	113	83
FED. ROAD DIST. NO.	ILLINOIS PROJECT	1-IR-290-4()	

3E OF 15E



PLAN



ELEVATION
(PROPOSED LOCATIONS OF JACKS AND CRIBBING)

NOTES: EXISTING DRAINAGE AND DITCHES DISTURBED BY THE JACKING SUPPORT FTGS. SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AFTER REMOVAL OF JACKING SUPPORTS.
JACKING SUPPORTS MAY BE EXTENDED BELOW GROUND TO TOP OF PIER FOOTING UPON APPROVAL OF THE ENGINEER.

FOR TRAFFIC CONTROL STAGES SEE SHEET NOS. 6E, 13E & 14E.

FOR GENERAL NOTES SEE SHEET 4E & 3

NOTES: CTA CLEARANCES ARE AS FOLLOWS

- 7'-2" HORIZONTAL CLEARANCE SHALL BE MAINTAINED AT ALL TIMES FROM C OF NEAREST TRACK.
- 12'-4" VERTICAL CLEARANCE SHALL BE MAINTAINED AT ALL TIMES FROM TOP OF RUNNING RAIL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN AND ELEVATION
SUPERSTRUCTURE RAISING
STRUCTURE REHABILITATION
PROJECT 1-IR-290-4()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT STREET

SCALE:
DATE: JUNE 1983

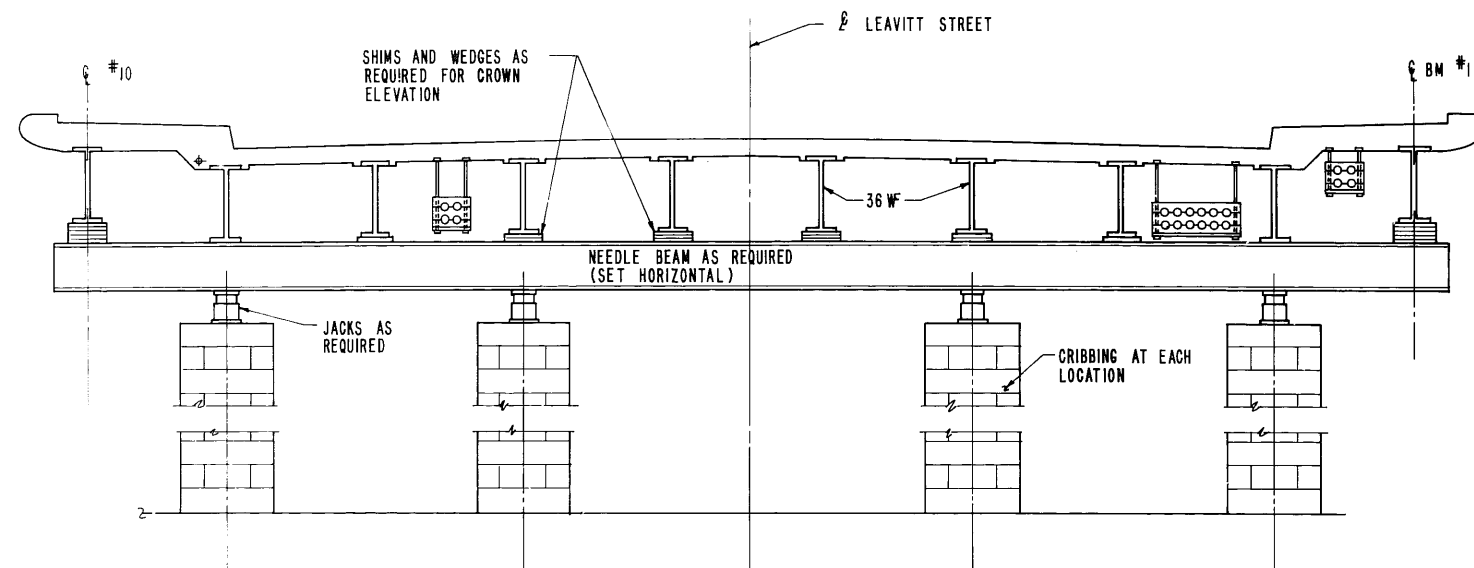
DRAWN BY: H.A.J.
CHECK BY: C.W.W.

REV. A.M. 7-16-83

GENERAL NOTES

1. TENTATIVE CRIBBING AND JACKING ARRANGEMENTS AND LOCATIONS ARE SHOWN ON THE DRAWING. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE BRIDGE LIFTING PROCEDURE. CONTRACTOR TO SUBMIT HIS DETAIL PROCEDURE FOR ENGINEER'S REVIEW AND APPROVAL.
2. JACKS MUST BE SIMULTANEOUSLY LIFTING ALL PARTS IN EQUAL MAGNITUDE AT ALL TIMES. A MASTER CONTROL AND RESERVOIR WITH VALVES AND GAUGES WILL BE REQUIRED FOR ALL JACKING OPERATIONS.
3. ANY UNEQUAL JACK MOVEMENT IN EXCESS OF 1/8" WILL NOT BE PERMITTED.
4. THE JACKS MUST BE MECHANICALLY SECURED AND LOCKED AT THE LIFTED POSITION TO INSURE AGAINST HYDRAULIC FAILURE OF JACKS.
5. JACKS MUST BE CALIBRATED ALONG WITH THE PRESSURE GAUGE PRIOR TO USE.
6. DESIGN THE NEEDLE BEAM SUCH AS TO PRECLUDE DEFLECTION IN EXCESS OF 1/8". HOWEVER ALL BRIDGE BEAMS MUST BE SET TO THE TRUE ELEVATION WITH $\pm 1/16"$ BY USING APPROPRIATE SHIMS AND WEDGES OVER THE NEEDLE BEAM.
7. LOCATE THE NEEDLE BEAM AS CLOSE TO THE EXISTING BEARING POINTS AS POSSIBLE TO PERMIT THE SEAT REBUILDING.
8. THE CRIBBING AND JACKS MUST BE DESIGNED FOR THE BRIDGE DECK DEAD LOAD AND CONSTRUCTION LOAD.
9. DETERMINE THE BEARING AREA OF THE CRIBBING AFTER PENETROMETER TESTS AS DIRECTED BY THE ENGINEER.
10. BI-DAILY CHECKS SHOULD BE MADE TO DETERMINE DIFFERENTIAL SETTLEMENT OF THE CRIBBING, JACKS ETC. ANY SUCH SETTLEMENT MUST BE CORRECTED IMMEDIATELY.
11. CONTRACTOR MUST RECORD THE LEVELS AT UNDERSIDES OF THE BRIDGE BEAMS AT ALL BEARINGS PRIOR, DURING AND AFTER THE LIFTING OF THE BRIDGE. BI-DAILY MONITORING OF THOSE ELEVATIONS WILL BE REQUIRED.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
13. LIVE LOADS SHALL NOT BE ALLOWED ON PORTION OF STR. BEING RAISED.

MAXIMUM REACTIONS FROM SUPERSTRUCTURE PER ONE BEARING (IN KIPS)		
DEADLOAD	ABUTMENT	PIER
FACE GIRDER	63	159
INTERIOR GIRDER	58	140



TYPICAL CROSS SECTION
(LOOKING SOUTH)

NOTES:

THE CRIBBING, JACKS AND BEAMS SHALL BE SET LEVEL AND TRUED VERTICALLY. THE CONTRACTOR SHALL VERIFY THE ALLOWABLE AND DESIGN BEARING PRESSURES ON THE BASE MATERIAL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION AND DETAILS
SUPERSTRUCTURE RAISING
STRUCTURE REHABILITATION
PROJECT 1-IR 290-4()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT STREET

SCALE:
DATE: JUNE 1983

DRAWN BY: H.A.J.
CHECK BY: C.W.W.

REV #Jm 7-16-83

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-290	1983-042 BR.	COOK	113	86A
FED. ROAD DIST. NO. ILLINOIS PROJECT - I-IR-290-4()				

BILL OF REINFORCEMENT

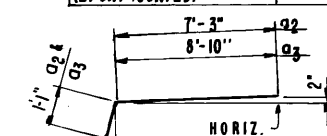
BAR	NO	SIZE	LENGTH	SHAPE
a	32	#5	24'-10"	
a2	8	#4	9'-8"	
a3	8	#4	10'-11"	
a4	16	#4	6'-1"	
a5	8	#4	6'-1"	
ag(E)	346	#4	22'-8"	

b(E)	270	#4	30'-6"	
d	516	#4	3'-1"	
d1	516	#6	3'-4"	

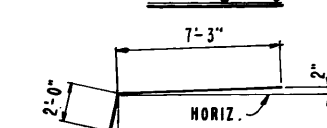
e	64	#4	17'-10"	
e1	32	#4	12'-0"	
e2	64	#4	16'-11"	
e3	32	#4	11'-8"	
e4	64	#4	16'-9"	

BILL OF MATERIAL

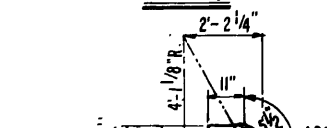
ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU.YDS.	6.0
CLASS X CONCRETE	CU.YDS.	45.1
REINFORCEMENT BARS	LBS.	5,970.
REINFORCEMENT BARS (EPOXY COATED)	LBS.	10,800



BARS a2 & a3



BAR a7



BAR a5



BAR d4



ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN & SECTION
STRUCTURE REHABILITATION
PROJECT I-IR-290-4()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT ST.

SCALE:
DATE: JUNE 1983

DRAWN BY: C.S.
CHECK BY: C.W.W.

257'-10" E TO E ABUTMENT BRGS

92'-11" SPAN 2

84'-10 1/4" SPAN 3

80'-0 3/4" SPAN 1

62'-4" 0. TO 0
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22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"

62'-4" 0. TO 0
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"

62'-4" 0. TO 0
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"

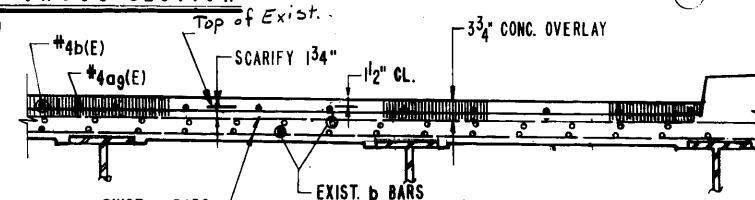
62'-4" 0. TO 0
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"

62'-4" 0. TO 0
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"
3'-2"
22'-0"

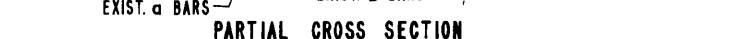
DECK PLAN

TYPICAL CROSS SECTION

(LOOKING SOUTH)

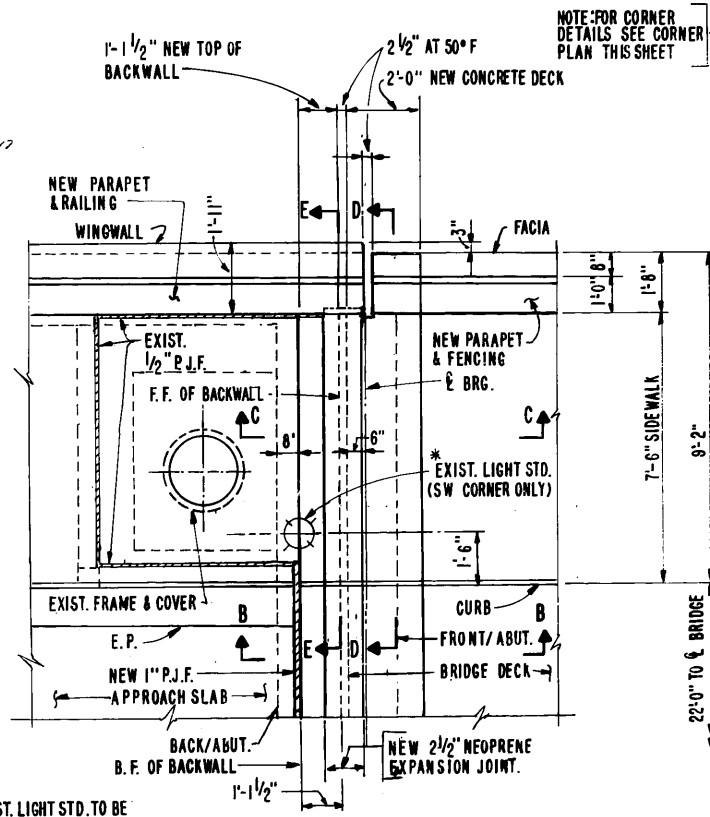


PARTIAL CROSS SECTION



CORNER PLAN

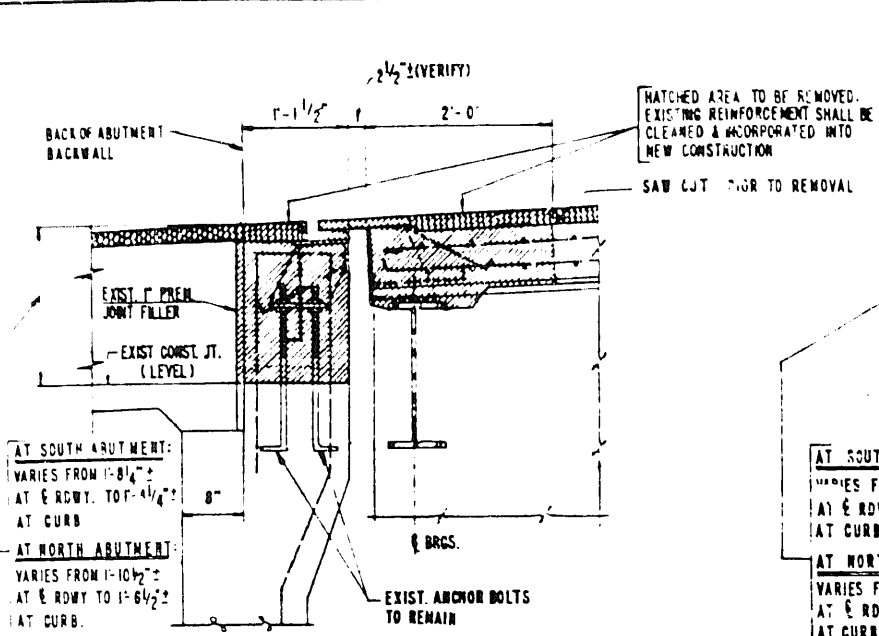
TYPICAL ALL CORNERS SW SHOWN.



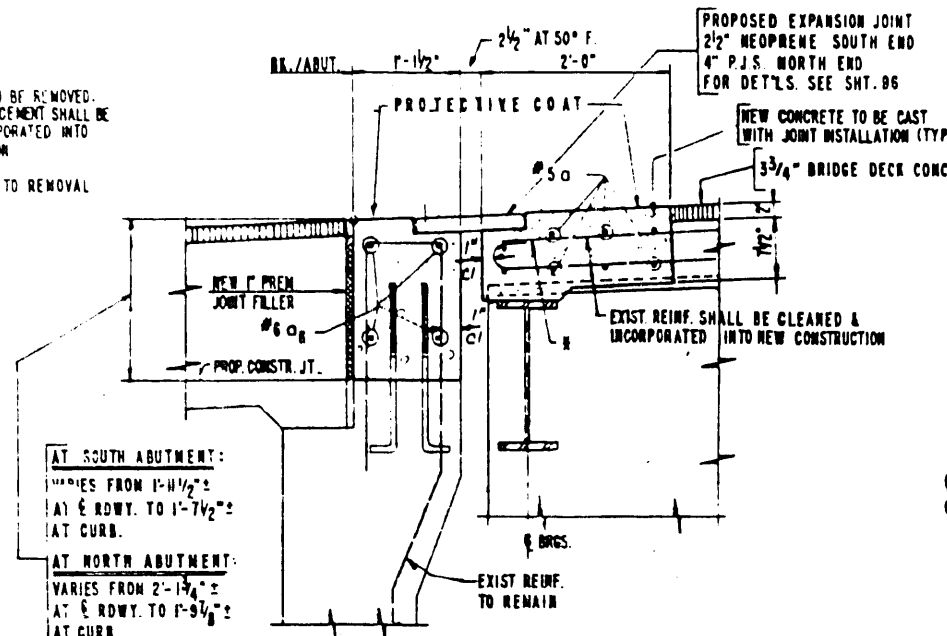
*EXIST. LIGHT STD. TO BE REMOVED FOR CONCRETE REMOVAL AND ANCHOR BOLTS LEFT IN PLACE. REINSTALL AFTER NEW CONCRETE HAS BEEN PLACED. REMOVAL AND INSTALLATION BY THE CITY OF CHICAGO.

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

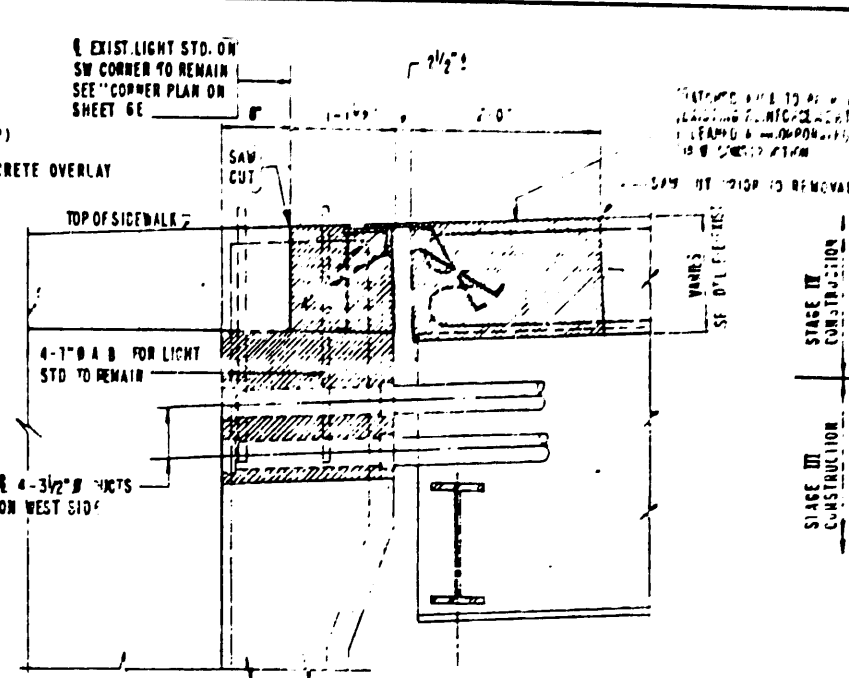
REVISIONS	
NAME	DATE



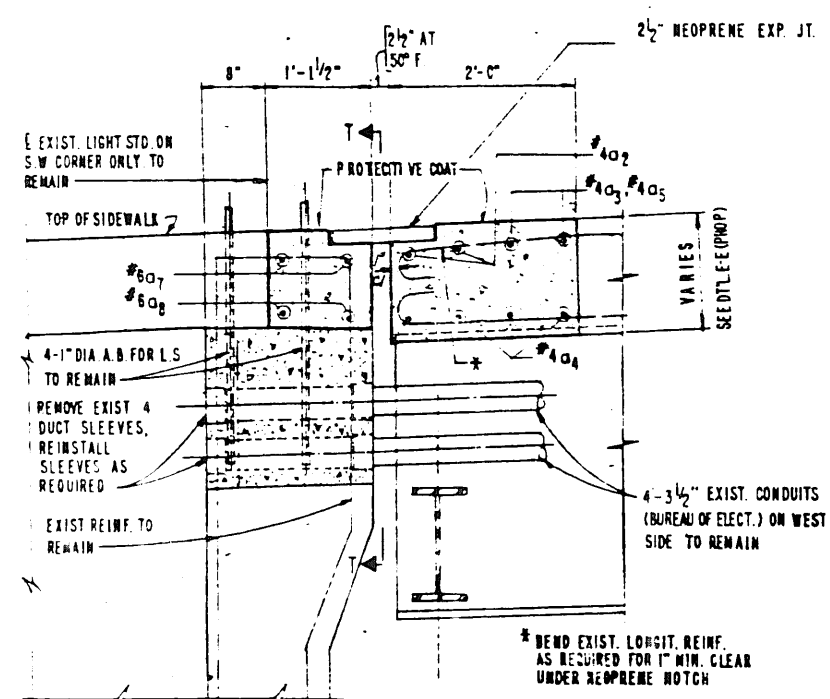
SECTION B-B (EXISTING CONSTRUCTION)



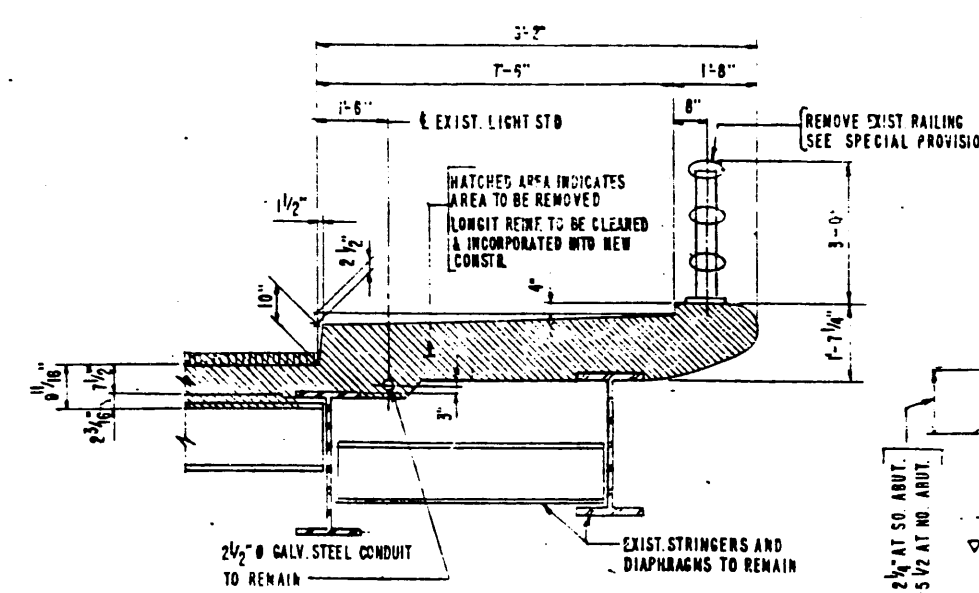
SECTION B-B (PROPOSED CONSTRUCTION)



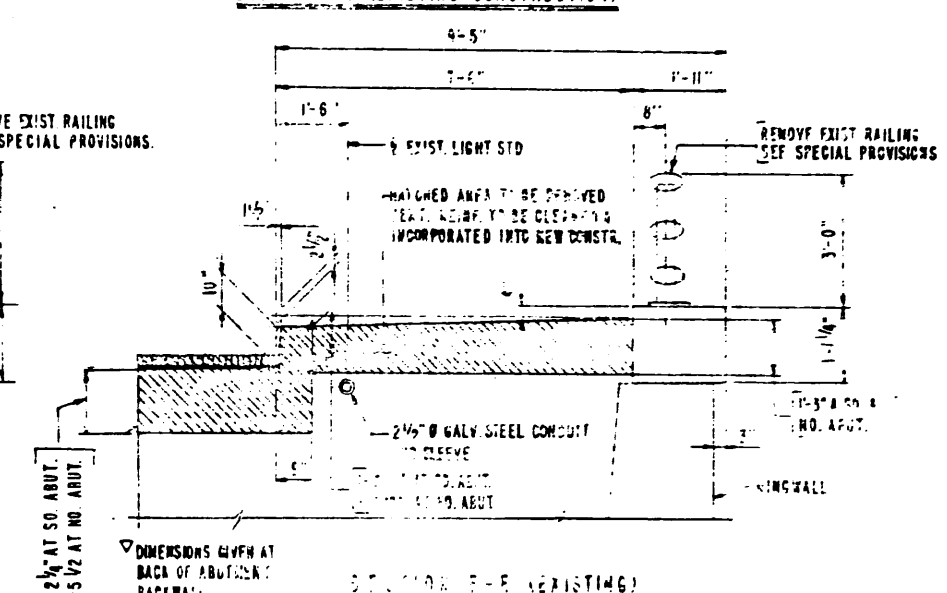
SECTION C-C (EXISTING CONSTRUCTION)



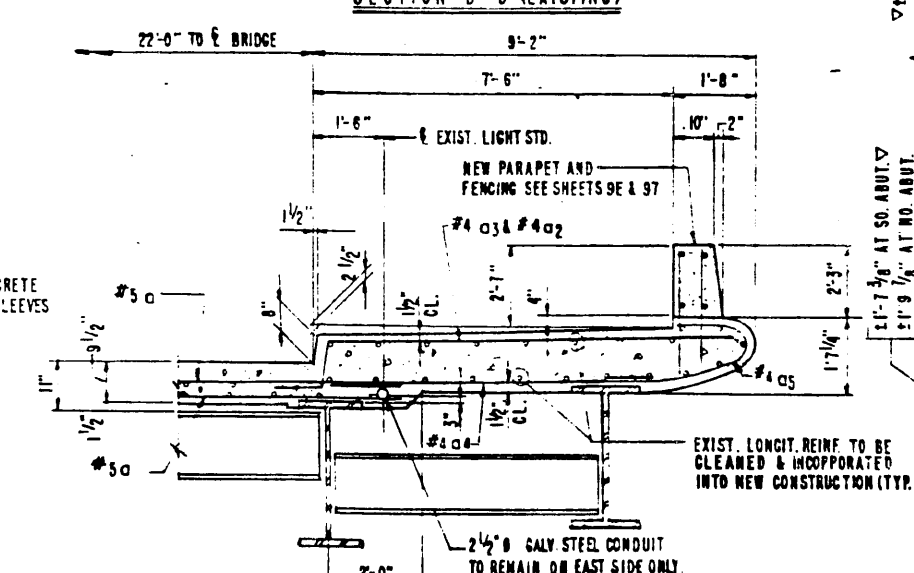
SECTION C-C (PROPOSED CONSTRUCTION)



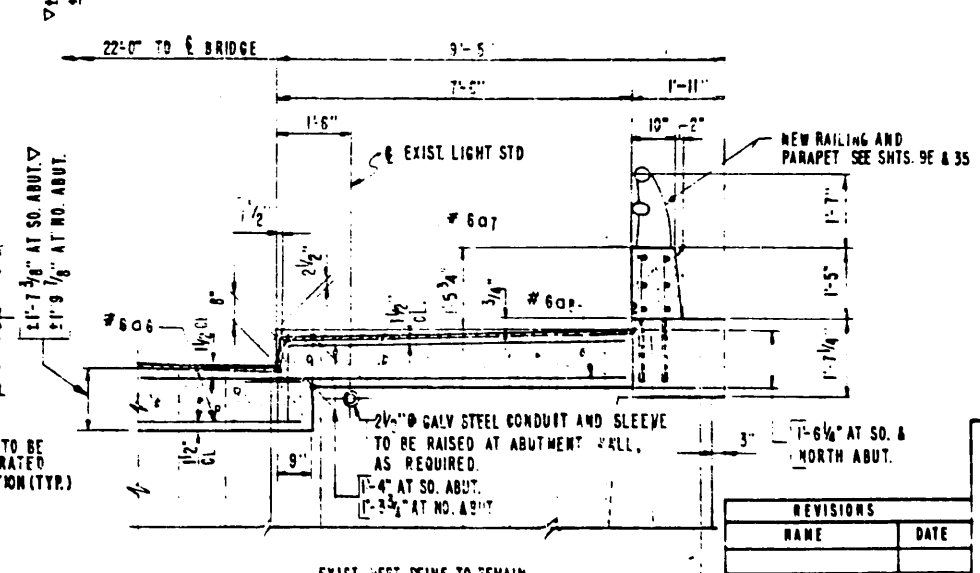
SECTION D-D (EXISTING)



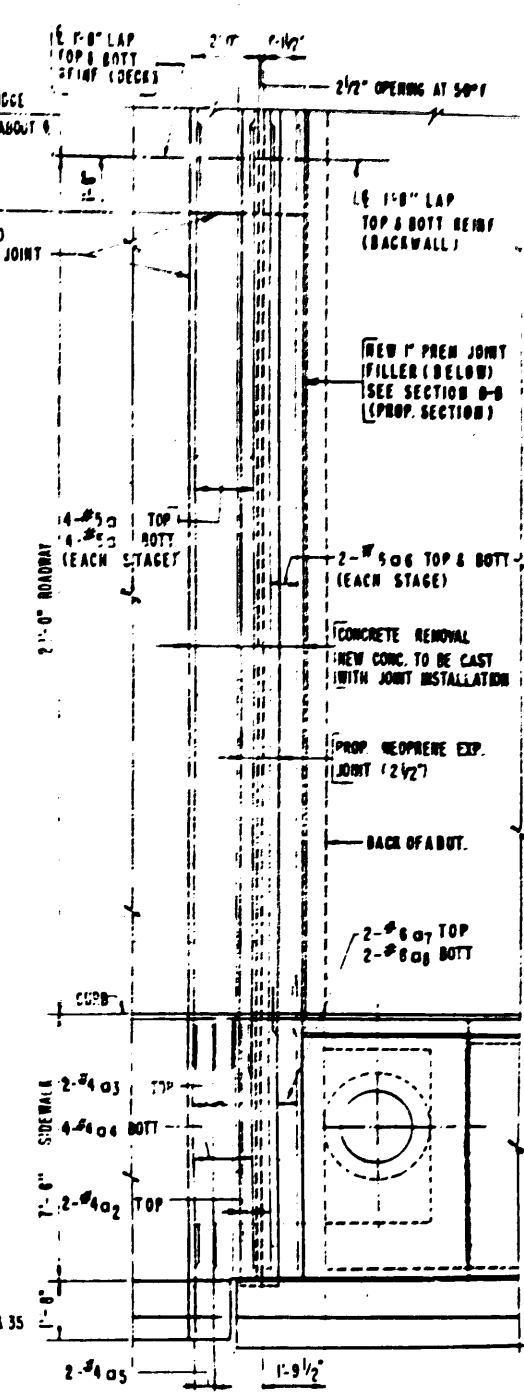
SECTION D-D (EXISTING)



SECTION D-D (PROPOSED)



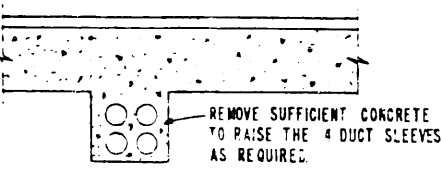
SECTION E-E (PROPOSED)



PROPOSED PART PLAN AT NORTH END (SOUTH END SIMILAR)

ABUTMENT BILL OF REINFORCEMENT				
BAR	NO.	SIZE	LENGTH	SHAPE
a ₁	10	#6	23'-8"	
a ₂	8	#6	9'-3"	
a ₃	8	#6	8'-5"	
a ₄	170	#6	2'-8"	
a ₅	170	#4	2'-8"	
a ₆	48	#4	1'-11"	
a ₇	36	#4	13'-11"	
a ₈	36	#4	13'-0"	

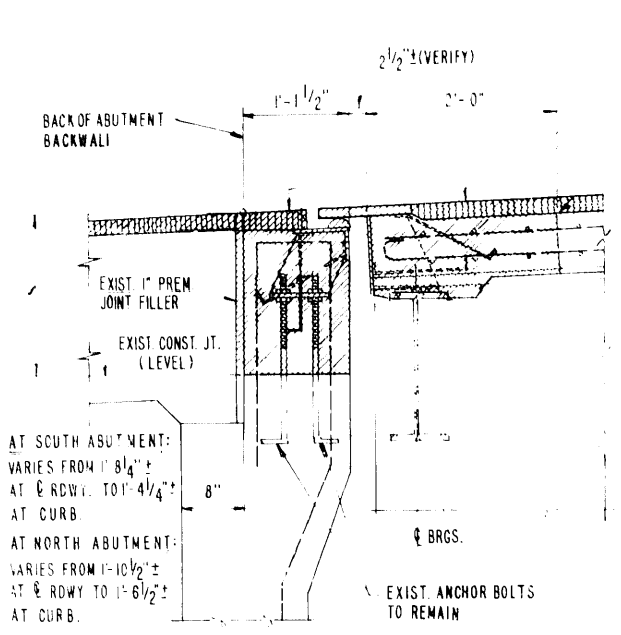
BILL OF MATERIAL			
CONCRETE REMOVAL	CU. YDS.	7.5	
CLASS I CONCRETE	CU. YDS.	17.0	
REINFORCEMENT BARS	LBS.	2,136	



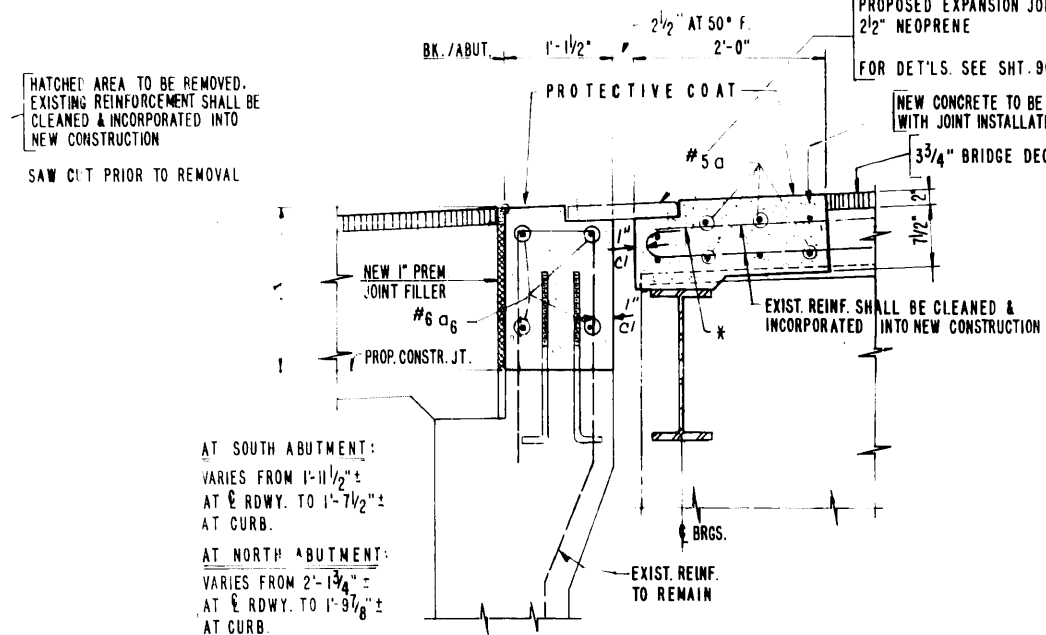
SECTION T-T (PROPOSED)

N.W. SHOWN, S.W. SIMILAR
 NOTE: SEE SHEET 7 FOR BAR a₇ & BAR a₈ BENDING DIAGRAM.

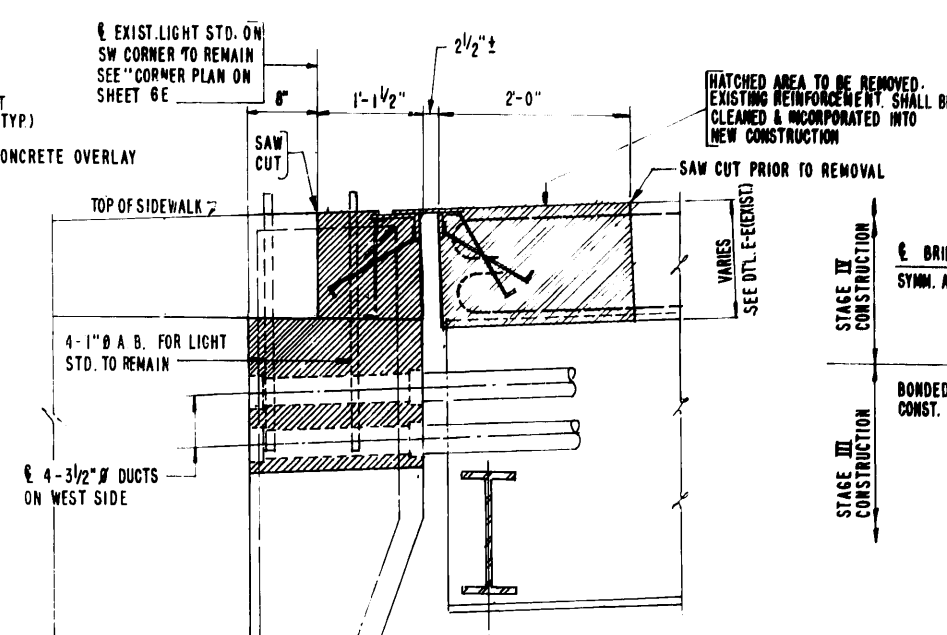
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK DETAILS
 STRUCTURE RENOVATION
 PROJECT 1-IR-290-4()
 FAI 290
 SECTION 1983-042 BR
 COOK COUNTY
 LEAVITT ST.
 SCALE: DRAWN BY: RLL



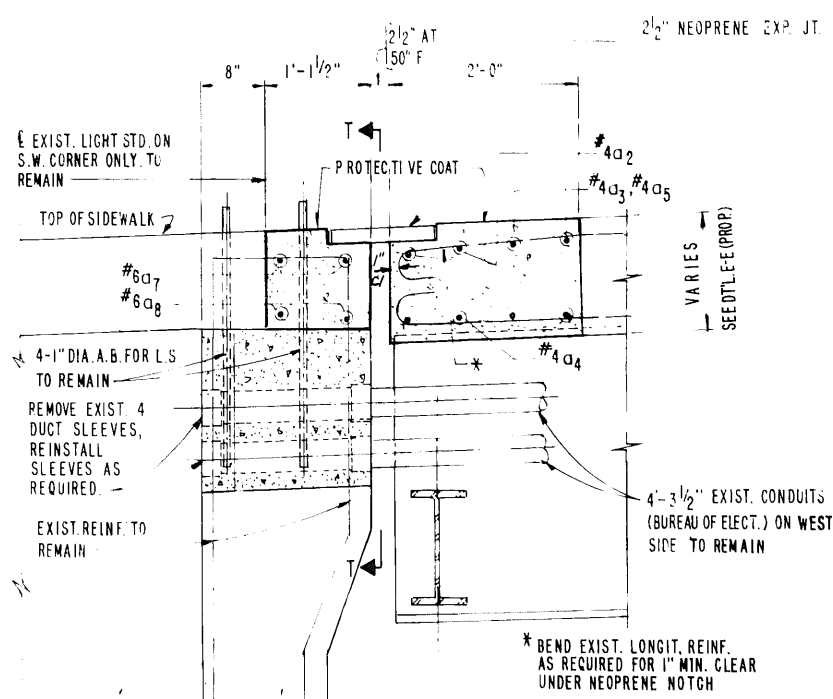
SECTION B-B (EXISTING CONSTRUCTION)



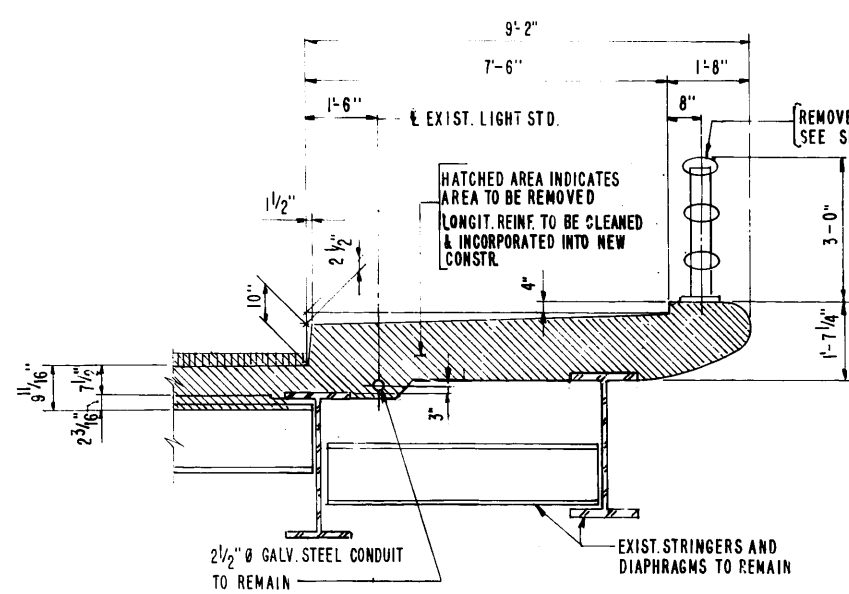
SECTION B-B (PROPOSED CONSTRUCTION)



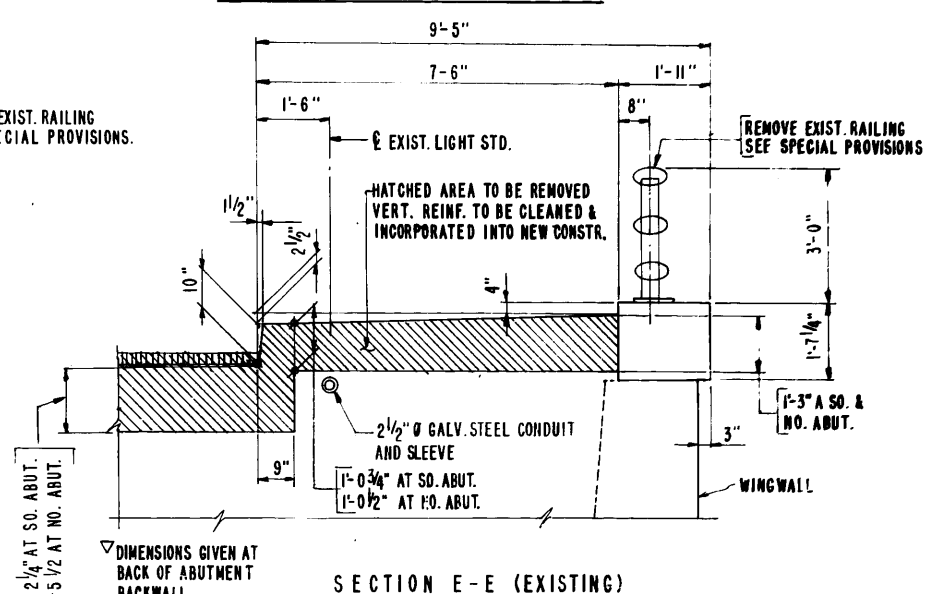
SECTION C-C (EXISTING CONSTRUCTION)



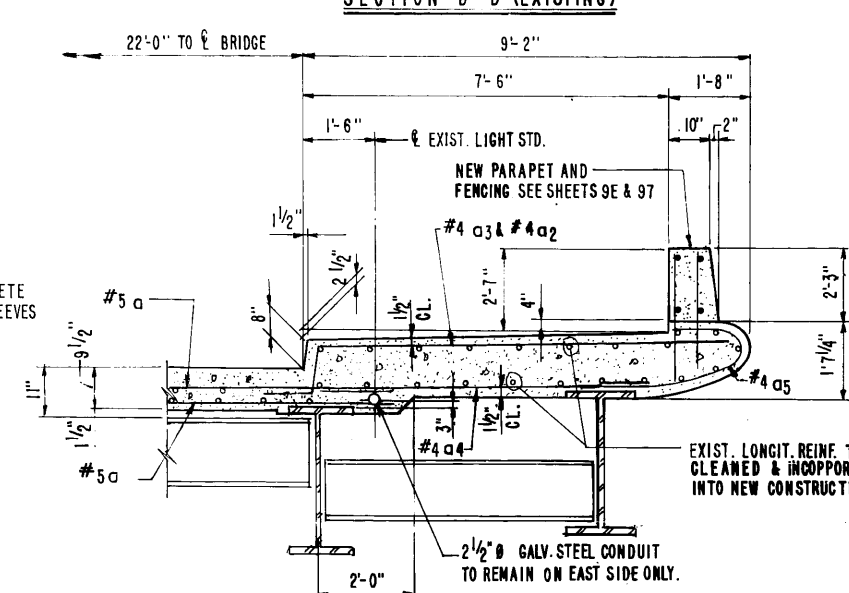
SECTION C-C (PROPOSED CONSTRUCTION)



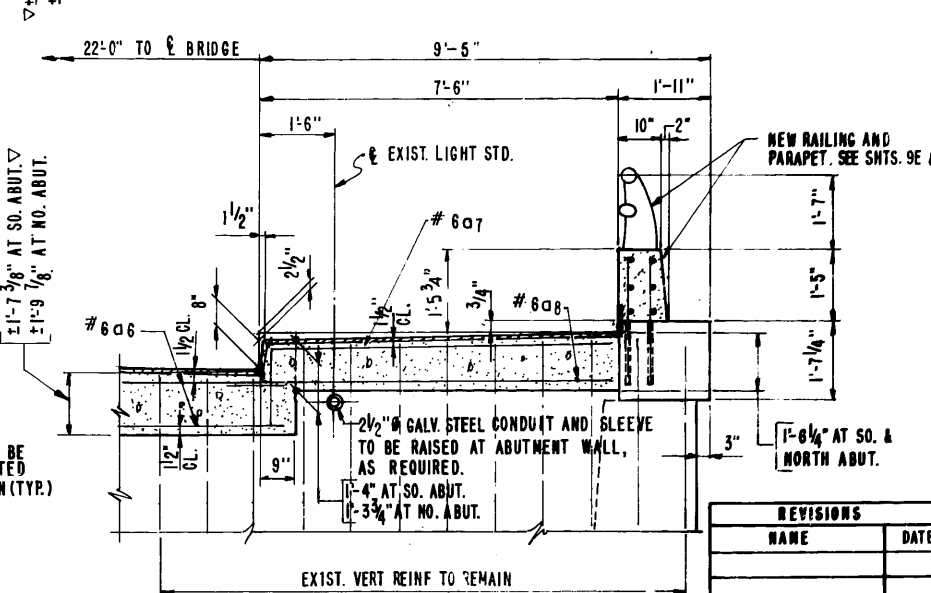
SECTION D-D (EXISTING)



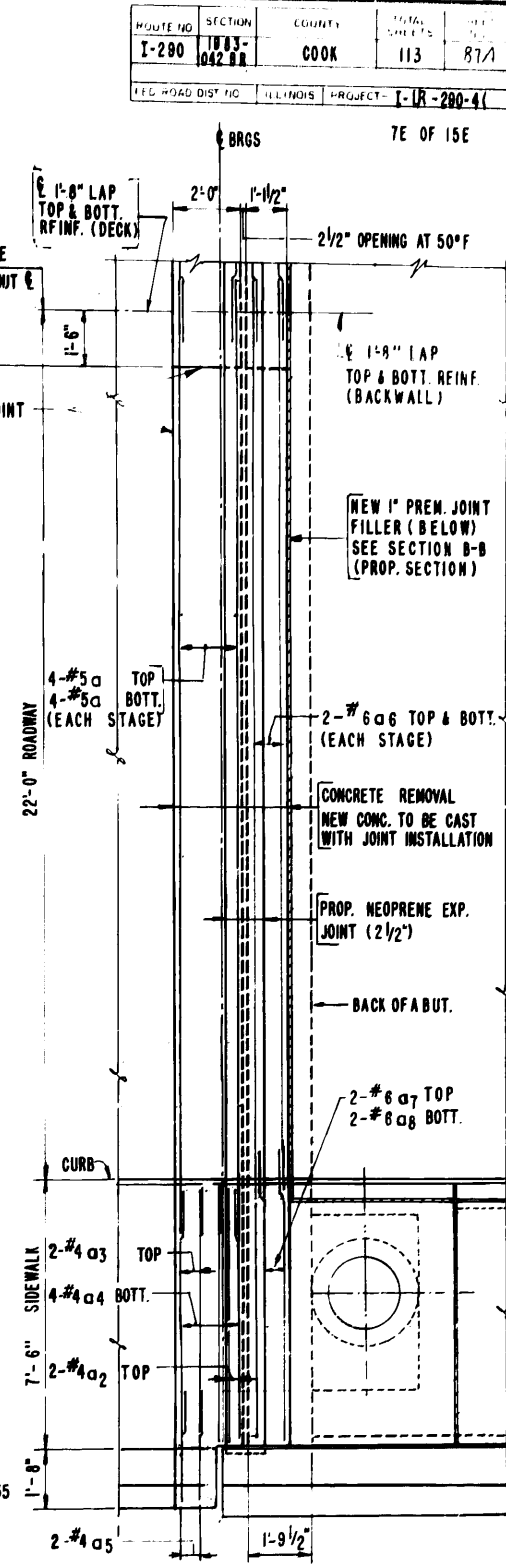
SECTION E-E (EXISTING)



SECTION D-D (PROPOSED)



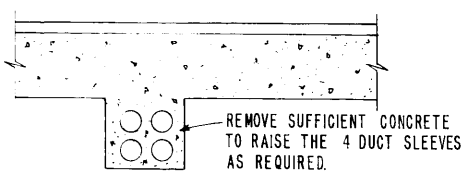
SECTION E-E (PROPOSED)



PROPOSED PART PLAN AT NORTH END (SOUTH END SIMILAR)

ABUTMENT BILL OF REINFORCEMENT

BAR	NO.	SIZE	LENGTH	SHAPE
a6	16	#6	23'-6"	
a7	8	#6	9'-3"	
a8	8	#6	8'-5"	
d2	170	#6	2'-6"	
d3	170	#4	2'-6"	
d4	48	#4	1'-11"	
e5	36	#4	13'-11"	
e6	36	#4	13'-9"	



SECTION T-T (PROPOSED)

NOTE: SEE SHEET 7 FOR BAR a7 & BAR d4 BENDING DIAGRAM.

BILL OF MATERIAL

	CU. YDS.	LBS.
CONCRETE REMOVAL	7.5	
CLASS X CONCRETE	17.0	
REINFORCEMENT BARS		2,130

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK DETAILS
STRUCTURE REHABILITATION
PROJECT I-IR-290-4 ()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT ST.
SCALE: DATE: JUNE 1983
DRAWN BY: G.S.L.
CHECK BY: C.W.W.

8E OF 15E

PD
FD
BS

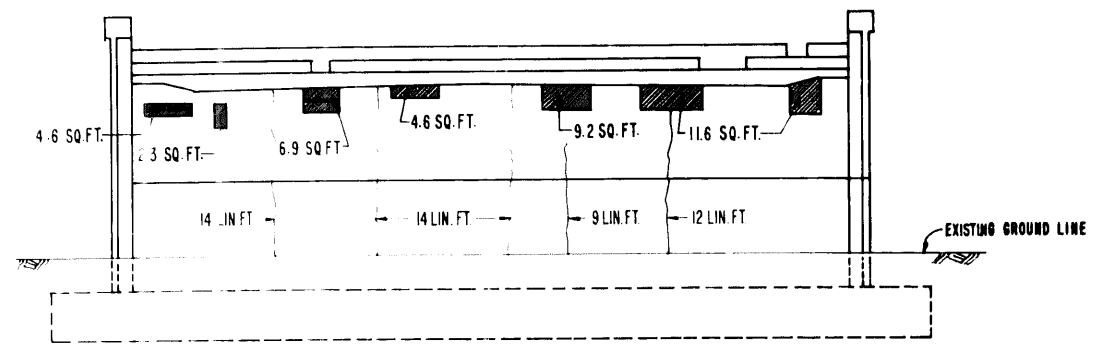
IF PATCHING IS TO BE DONE ON THE SIDEWALK OVER THE EXISTING CONDUIT SYSTEM, THE CONTRACTOR SHALL FULLY PROTECT THE CONDUIT BY PLACING A SHIELD COMPLETELY SURROUNDING THE CONDUIT. THE SHIELD SHALL BE CAPABLE OF SUPPORTING THE CONDUIT IF EXISTING SUPPORT RODS ARE LOOSENOED OR REMOVED. THIS WORK SHALL BE PAID FOR AS PROTECTIVE SHIELD.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK CONCRETE REPAIR
STRUCTURE REHABILITATION
PROJECT I-IR-290-4 ()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT ST. DRAWN

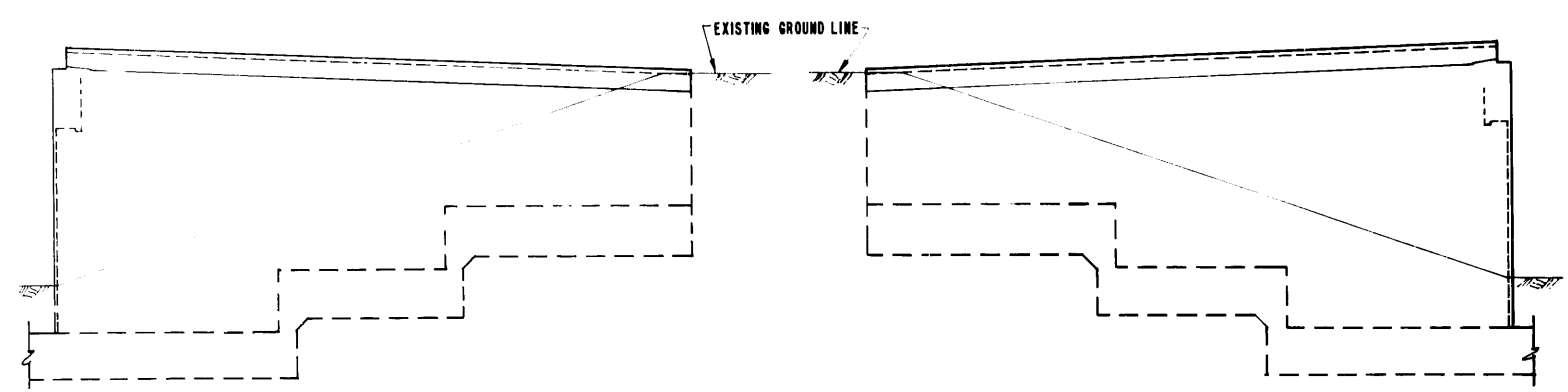
SCALE:
DATE: JUNE 1983

DRAWN BY: G.S.
CHECK BY: R.A.L.

REV 7-16-81 AJM

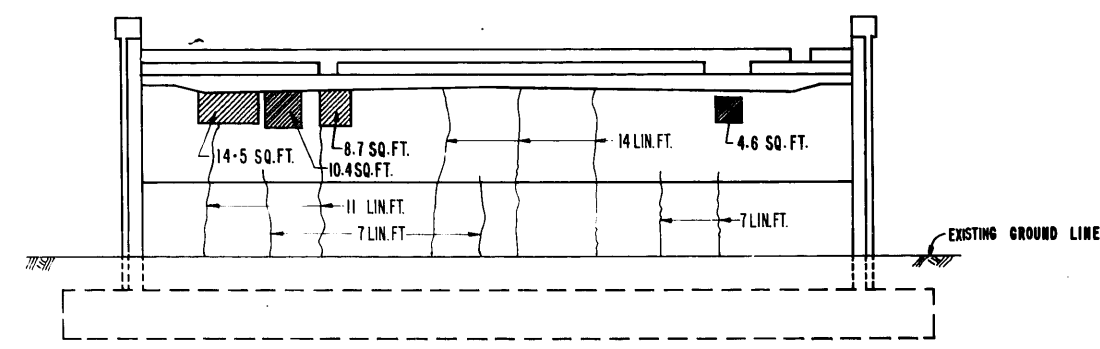


ELEVATION—SOUTH ABUTMENT

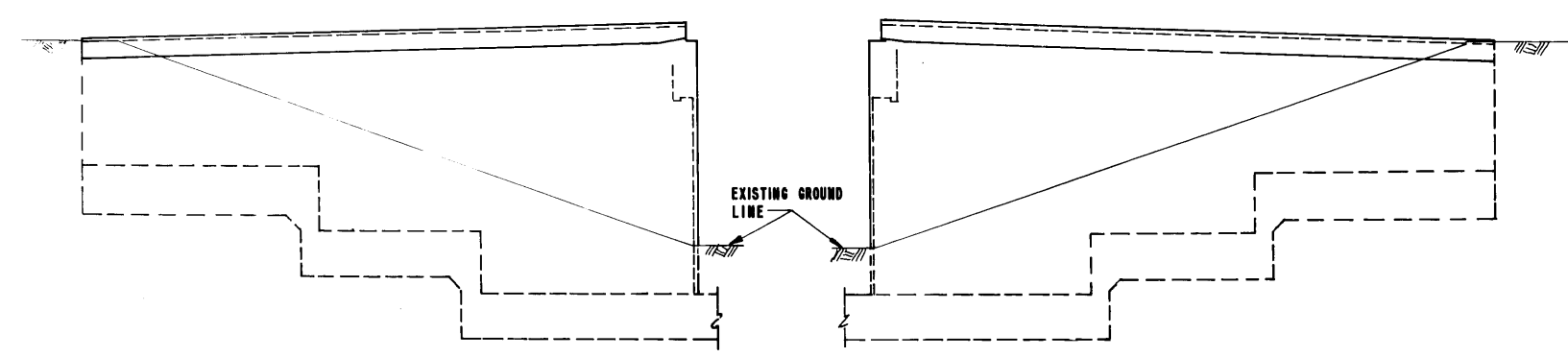


SOUTHWEST WINGWALL

SOUTHEAST WINGWALL

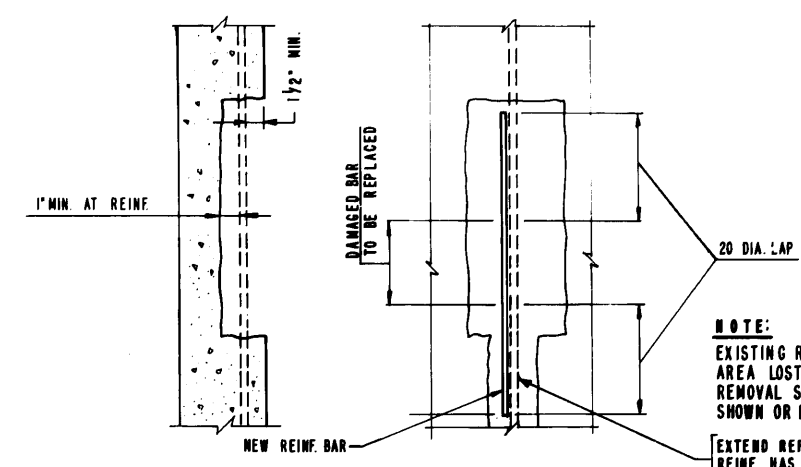


ELEVATION—NORTH ABUTMENT



NORTHWEST WINGWALL

NORTHEAST WINGWALL



CONCRETE REPAIR DETAIL

NOTE:
EXISTING REINF. HAVING 25% OR MORE OF CROSS SECTIONAL AREA LOST DUE TO CORROSION OR DAMAGE DURING CONCRETE REMOVAL SHALL BE REPLACED BY NEW REINF. LAPPED AS SHOWN OR NOTED.

EXTEND REPAIR TO WHERE EXISTING REINF. HAS 1 1/2" MIN. COVER OF SOUND CONCRETE (SEE SPECIAL PROVISIONS)

BILL OF MATERIAL (NORTH & SOUTH ABUT.)		
ITEM	UNIT	QUANT.
REPAIR CONCRETE STRUCTURES	SQ. FT.	89
EPOXY CRACK SEALING	LIN. FT.	155.0

NOTES

EXPOSED REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO CONCRETE PATCH, OR NEW REPLACEMENT REINFORCEMENT ADDED AND SPLICED WITH THE EXISTING RETAINED REINFORCEMENT.

LEGEND

EPOXY CRACK SEAL

REPAIR CONCRETE STRUCTURES

REVISIONS	
NAME	DATE

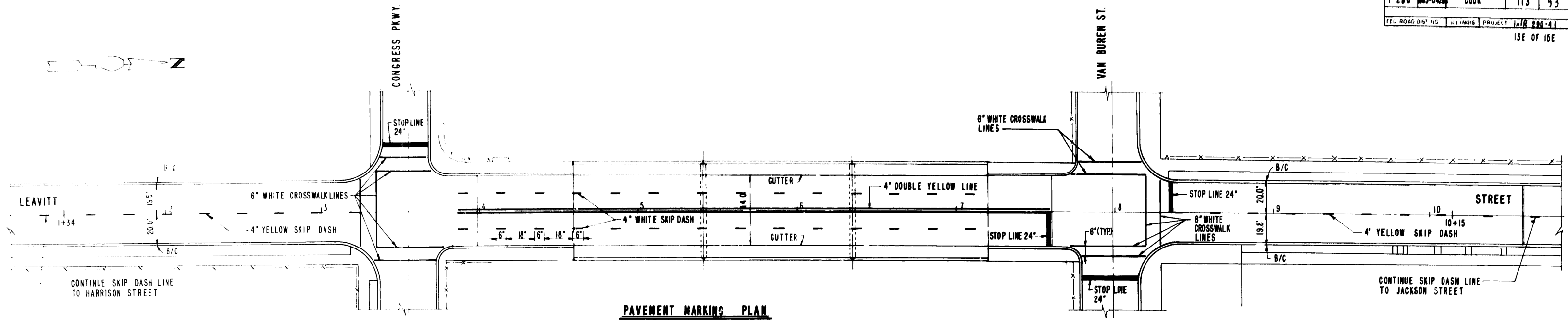
ILLINOIS DEPARTMENT OF TRANSPORTATION

ABUTMENTS AND WINGWALLS
STRUCTURE REHABILITATION
PROJECT I-IR-290-4()
FAI 290
SECTION 1983-042 BR
COOK COUNTY
LEAVITT ST.

SCALE

DATE: JUNE 1983

DRAWN BY: U.S.
CHECK BY: R.A.L.



PAVEMENT MARKING PLAN

- NOTES:
- ALL PAVEMENT MARKINGS ON BITUMINOUS SHALL BE THERMOPLASTIC.
 - ALL PAVEMENT MARKINGS ON CONCRETE SHALL BE PAINT.
 - TRAFFIC CONTROL DURING FINAL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH STANDARD U-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING
SUPERSTRUCTURE RAISING
STRUCTURE REHABILITATION
PROJECT 1-IR-290-4()
FAI 290
SECTION 1903-042 BR
COOK COUNTY
LEAVITT ST.

SCALE: DATE: JUNE 1983

DRAWN BY: G.S.
CHECK BY: C.W.W.