

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID INTERSTATE HIGHWAY

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-BR-78	COOK	50	1
F.H.W.A. REG.		ILLINOIS PROJECT		

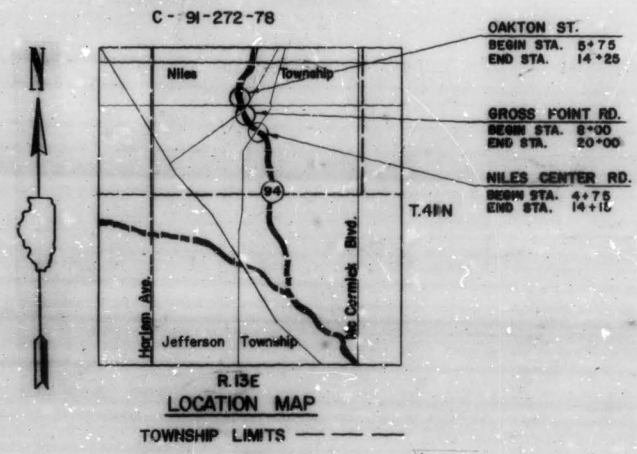
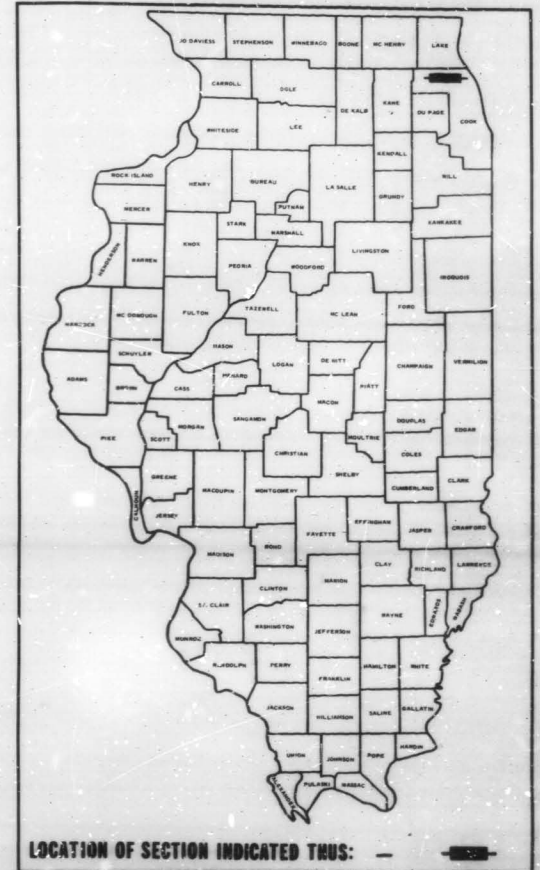
P-91-272-78

F.A.I. ROUTE 94
SECTION 1978 - 142 - BR - 78
PROJECT 1-94-2(147)38

REHABILITATION OF GROSS POINT RD., NILES CENTER RD., & OAKTON ST.
OVER EDENS EXPRESSWAY
COOK COUNTY

DESCRIPTION OF WORK

THE IMPROVEMENT CONSISTS OF REPAIRING THE BRIDGES CARRYING NILES CENTER ROAD, GROSS POINT ROAD AND OAKTON STREET OVER THE EDENS EXPRESSWAY. INCLUDED IS REPAIR, RESURFACING OF THE DECK, APPROACH ROADWAYS, CONCRETE PIERS, JOINTS, STEEL WORK AND ABUTMENTS.



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

SUBMITTED 1-21 1982
 EXAMINED 2-2 1982
 PASSED 2-2 1982
 APPROVED 2-2 1982

Signature
 DISTRICT ENGINEER
Signature
 ENGINEER IN CHARGE
Signature
 ENGINEER OF RECORD
Signature
 DISTRICT SUPERVISOR OF HIGHWAYS

CONTRACT NO. 35404

Signature
 GIRINERA ROY
 REGISTERED STRUCTURAL
 ENGINEER
 STATE OF ILLINOIS NO. 81-3448
 DATE MAY 9, 1979

Signature
 N.S. SHH
 REGISTERED
 PROFESSIONAL ENGINEER
 STATE OF ILLINOIS NO. 62-33211
 NOV 30, 81

Signature
 T. J. BHAGNAKAR
 REGISTERED STRUCTURAL ENGINEER
 STATE OF ILLINOIS NO. 61-3282
 DECEMBER 14, 1981

GLOBETROTTERS ENG. CORP.
 CONSULTING ENGINEERS
 PHONE 312-922-6400 1020 SOUTH WABASH AVE. CHICAGO ILL.

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

APPROVED _____
 DIVISION ADMINISTRATOR DATE _____

REVISED SET
 3-17-82

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-82-78	COOK	50	2
F.W.A. REG.		ILLINOIS PROJECT		

P-91-272-78

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
3-17	NILES CENTER ROAD
18-32	GROSS POINT ROAD
33-47	OAKTON STREET
48	SUGGESTED SEQUENCE OF CONSTRUCTION STAGES
49	ONE LANE CLOSURE
50	TWO LANE CLOSURE

**SUMMARY OF QUANTITIES
GROSS POINT, NILES CENTER, OAKTON ST.**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. TYPE CODE	
				X731-24	5FTY-3a
406001	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	192		192
406004	FIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	15		15
406006	LEVELING BINDER (HAND METHOD)	TON	15		15
406011	BITUMINOUS CONCRETE BINDER COURSE (MIXTURE B)	TON	92		92
406013	BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I	TON	450	395	55
501024	CONCRETE REMOVAL	CU. YD.	149.5	149.5	
501029	EXPANSION BOLTS 3/4 INCH	EACH	456	456	
503003	PROTECTIVE COAT	SQ. YD.	146.4	146.4	
504003	CLASS X CONCRETE	CU. YD.	152.1	152.1	
507004	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	11,560	11,560	
507010	JACK AND REPOSITION BEARINGS	EACH	72	72	
509075	CLEANING AND PAINTING METAL HAND RAIL	LIN. FT.	19,130	19,130	
512001	REINFORCEMENT BARS	POUND	19,130	19,130	
617010	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ. YD.	3960	3250	710
617017	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	LIN. FT.	324		324
617046	SIDEWALK REMOVAL AND REPLACEMENT	SQ. FT.	799		799
620062	PAVEMENT REMOVAL AND PORTLAND CEMENT CONCRETE REPLACEMENT, SPECIAL 9"	SQ. YD.	190		190
648017	TRAFFIC CONTROL AND PROTECTION (STRUCT I, II, III)	L. SUM.	1	1	
646004	ENGINEER'S FIELD OFFICE, TYPE A	CAL. MO.	5	4	1
S	T50101	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ. FT.	60	60
S	T50102	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	LIN. FT.	7930	3015 4915
S	T50104	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	LIN. FT.	720	720
S	T50107	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	LIN. FT.	365	365
	X04748	MOBILIZATION	L. SUM.	1	1
	X07385	DELIVER TEMPORARY CONCRETE BARRIER	UNIT MILE	13,020	4,740 8,280
	X06953	INSTALL TEMPORARY CONCRETE BARRIER	LIN. FT.	2,170	790 1,380
	Z10167	CONCRETE CURB REPAIR	LIN. FT.	60	60
	Z10180	DECK SLAB REPAIR (FULL DEPTH)	SQ. YD.	69.5	69.5
	Z10181	DECK SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	639	639
	Z10279	NEOPRENE EXPANSION JOINT 2"	LIN. FT.	321	321
	X05579	PREFORMED JOINT FILLER - 4"	LIN. FT.	296	296
	X50314	PREFORMED JOINT SEAL 4"	LIN. FT.	130	130
*	Z10375	REPAIR CONCRETE STRUCTURES	SQ. FT.	982	982
	X21361	EPOXY CRACK SEALING	LIN. FT.	217	217
	Z10530	WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	4496	4496
	X06748	FASCIA BEAM PROTECTION FLASHING	LIN. FT.	1973	1573 1,060
	X01642	RELOCATE TEMPORARY CONCRETE BARRIER	LIN. FT.	1,850	790 1,060
	629104	CHAIN LINK FENCE REMOVAL AND REPLACEMENT	LIN. FT.	130	130
	630024	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	LIN. FT.	226	226
	X31490	FURNISHING AND MAINTAINING AUTOMOTIVE VEHICLES	L. SUM.	1	0.8 0.2
	X61641	TEMPORARY CONCRETE BARRIER, TERMINAL SECTION	EACH	6	6
S	X64711	PAVEMENT MARKING TAPE - TYPE III 4"	LIN. FT.	15,350	3,120 13,230
	647001	PAVEMENT MARKING TAPE	LIN. FT.	60	60
	Z13011	SUB. BASE - GRANULAR MATERIAL, TYPE B	CU. YD.	4	4
Δ	Z10527	TRAINEES	HR.	1,000	
	X06394	CHAIN LINK FABRIC	LIN. FT.	451	451

STATE STANDARDS

STANDARD 1686 - 4	STANDARD SYMBOLS
STANDARD 2116 - 2	P.C.C. PATCHING DETAILS
STANDARD 2122 - 10	CONCRETE MEDIANS
STANDARD 2130 - 6	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
STANDARD 2298 - 5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 2299 - 9	DESIGN OF TRAFFIC CONTROL DEVICES
STANDARD 2300 - 2	FLAGMANS TRAFFIC CONTROL SIGN
STANDARD 2301 - 4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE
STANDARD 2302 - 4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE
STANDARD 2303 - 5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND CONTRACT MAINTENANCE
STANDARD 2312 - 7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE
STANDARD 2314 - 4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND CONTRACT MAINTENANCE
STANDARD 2315 - 5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND CONTRACT MAINTENANCE
STANDARD 2316 - 7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND CONTRACT MAINTENANCE
STANDARD 2318 - 5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE
STANDARD 2383-1	TEMPORARY CONCRETE BARRIER
STANDARD 2168-9	CHAIN LINK FENCE

NOTE: ALL SAW CUTS SHALL BE CONSIDERED INCIDENTAL WITH NO ADDITIONAL COMPENSATION ALLOWED.

* NON PARTICIPATING
S SPECIALTY ITEMS
Δ CONSTRUCTION TYPE CODE - Y080
** 550 Sq. Ft. is Non-Participating

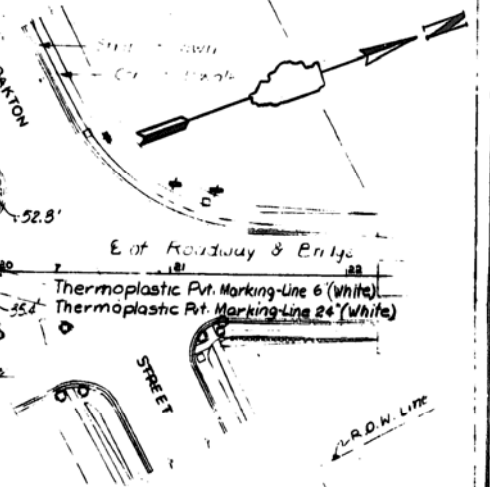
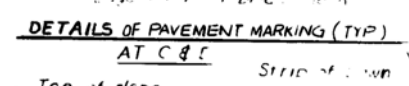
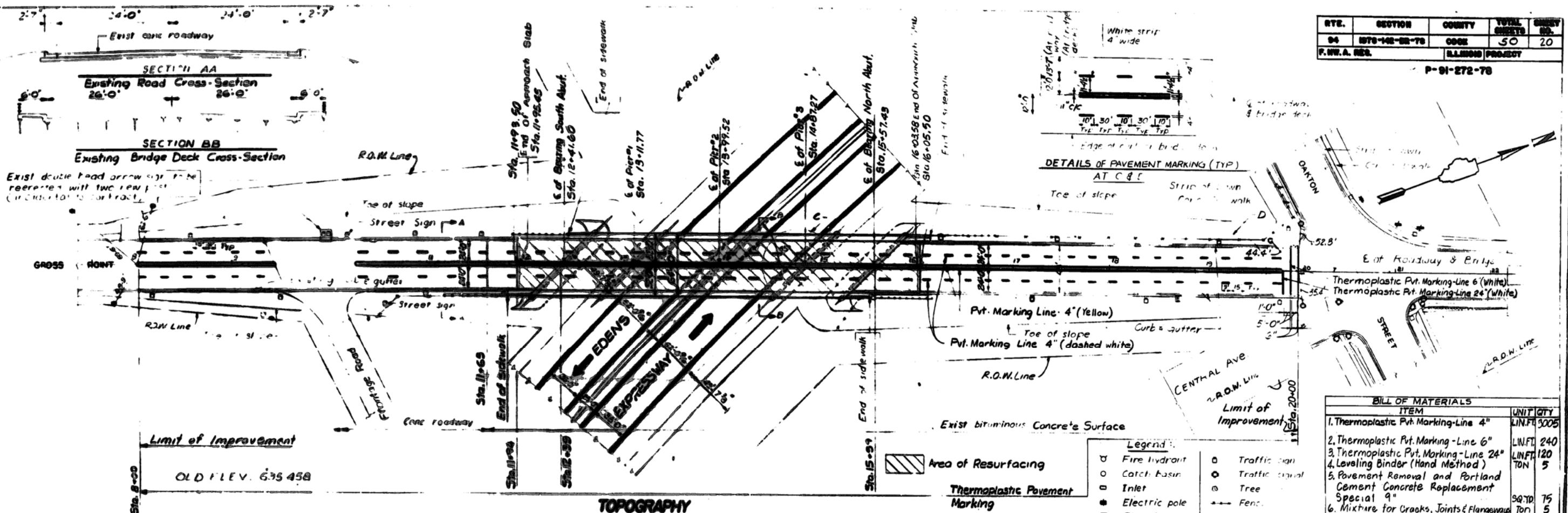
SUMMARY OF QUANTITIES
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAMBURG, ILL.
REHABILITATION OF
GROSS POINT RD., NILES CENTER RD., & OAKTON ST. OVER EDENS EXPRESSWAY

REVISIONS	
DATE	BY
7-15-81	D.G.
12-24-81	R.C.S.
1-22-82	R.C.S.

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605
SCALE: NONE DRAWN BY: R. RUSSELL SHEET NO. 2
DATE: 1-5-75 CHECKED BY: Reg. POUND

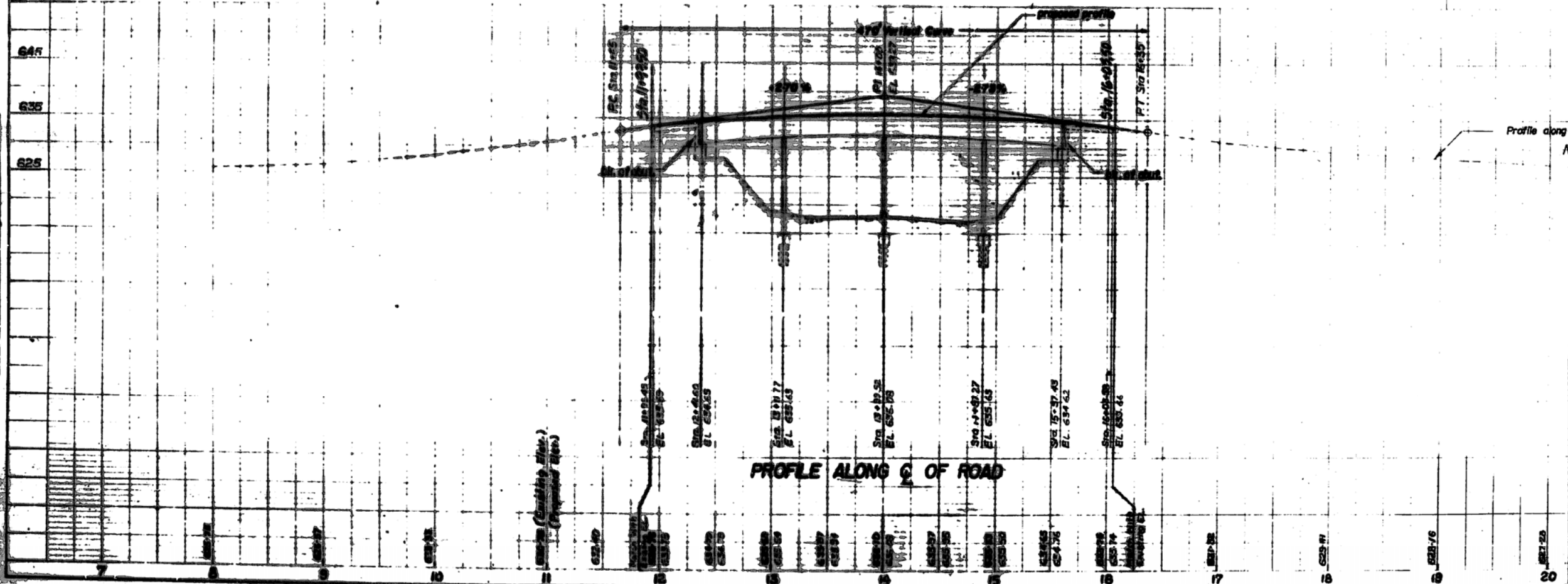
Rev. 4-581 Rev. 2-10-82
Rev. 4-19-82 Revised: 3-7-82

RTZ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04	1578-142-02-73	0022	50	20
P.W.A. NO.		PROJECT		
		P-91-272-78		



BILL OF MATERIALS	
ITEM	UNIT QTY
1. Thermoplastic Pav. Marking-Line 4"	LIN.FT. 5005
2. Thermoplastic Pav. Marking-Line 6"	LIN.FT. 240
3. Thermoplastic Pav. Marking-Line 24"	LIN.FT. 120
4. Leveling Binder (Hand Method)	TON 5
5. Pavement Removal and Portland Cement Concrete Replacement Special 9"	SQ.YD. 75
6. Mixture for Cracks, Joints & Flangeways	TON 5

- Legend:
- Fire hydrant
 - Catch basin
 - Inlet
 - Electric pole
 - Electric vault
 - Traffic sign
 - Traffic signal
 - Tree
 - Fence
 - Guard rail



Profile along crown of existing pavement.
 Note: Top of finished bridge deck elevations shown on this plan are based on 2" thick waterproofing membrane system and bituminous concrete surface.

- Bridge Deck Section Showing Finish Profile
- Lane markings as shown in this drawing are permanent lane markings. This work shall be done after completion of the deck and approach slab repair work.

TOPOGRAPHY AND PROFILE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
 1000 PLAZA DRIVE, SCHAMBERG, ILL.

REHABILITATION OF
 GROSS POINT RD. GRADE SEPARATION OVER
 EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
 CONSULTING ENGINEERS
 1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE: NONE DRAWN BY: [Signature] SHEET NO. G-3
 DATE: 5-7-73 CHECKED BY: P.A. [Signature]

PLAN
 SHEET NO. G-3
 DATE: 5-7-73

PROFILE
 SHEET NO. G-3
 DATE: 5-7-73

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
0 - 1	INDEX OF SHEETS & BILL OF MATERIAL
0 - 2	GENERAL PLAN AND ELEVATION
0 - 3	TOPOGRAPHY AND PROFILE
0 - 4	TRAFFIC CONTROL PLAN
0 - 5	TOP DECK PLAN - SOUTH HALF
0 - 6	TOP DECK PLAN - NORTH HALF
0 - 7	REINFORCEMENT PLACEMENT PLAN
0 - 8	MISCELLANEOUS EXPANSION JOINT REPAIR DETAILS
0 - 9	MISCELLANEOUS REPAIR DETAILS
0 - 10	STEEL FRAMING REPAIR
0 - 11	SOUTH ABUTMENT - REPAIR
0 - 12	NORTH ABUTMENT - REPAIR
0 - 13	PIER NO. 1 (SOUTH PIER) - REPAIR
0 - 14	PIER NO. 2 (CENTER PIER) - REPAIR
0 - 15	PIER NO. 3 (NORTH PIER) - REPAIR

BILL OF MATERIALS

ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE	
			X731-2A	9FTY-3Q
BITUMINOUS MATERIALS (PRIME COAT)	GALLON	105		105
FIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	5		5
LEVELING BINDER (HAND METHOD)	TON	5		5
BITUMINOUS CONCRETE BINDER COURSE (MIXTURE B)	TON	44		44
BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I	TON	126	112	14
CONCRETE REMOVAL	CU.YD.	34.3	34.3	
EXPANSION BOLTS 3/4 INCH	EACH	132	132	
PROTECTIVE COAT	SQ.YD.	34.3	34.3	
CLASS X CONCRETE	CU.YD.	35.4	35.4	
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4300	4300	
JACK AND REPOSITION BEARINGS	EACH	24	24	
CLEANING AND PAINTING METAL HANDRAIL	LIN.FT.	251	251	
REINFORCEMENT BARS	POUND	3920	3920	
CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	LIN.FT.	45		45
SIDEWALK REMOVAL AND REPLACEMENT	SQ.FT.	205		205
PAVEMENT REMOVAL AND PORTLAND CEMENT CONCRETE REPLACEMENT, SPECIAL 9"	SQ.YD.	45		45
TRAFFIC CONTROL AND PROTECTION (STRUCT III)	L.SUM.	0.34	0.34	
THERMOPLASTIC PAVEMENT MARKING-LINE 4"	LIN.FT.	2190	1225	965
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	LIN.FT.	240		240
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	LIN.FT.	120		120
MOBILIZATION	L.SUM.	0.34	0.34	
DELIVER TEMPORARY CONCRETE BARRIER	UNIT MILE	4680	1380	3,300
INSTALL TEMPORARY CONCRETE BARRIER	LIN.FT.	780	230	550
DECK SLAB REPAIR (FULL DEPTH)	SQ.YD.	39	39	
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ.YD.	224	224	
PREFORMED JOINT FILLER - 4"	LIN.FT.	96		96
PREFORMED JOINT SEALER - 4"	LIN.FT.	130	130	
REPAIR CONCRETE STRUCTURES	SQ.FT.	277	277	
EPOXY CRACK SEALING	LIN.FT.	89	89	
WATERPROOFING MEMBRANE SYSTEM	SQ.YD.	1283	1283	
FASCIA BEAM PROTECTION FLASHING	LIN.FT.	452		452
RELOCATE TEMPORARY CONCRETE BARRIER	LIN.FT.	680	230	450
CHAIN LINK FENCE REMOVAL AND REPLACEMENT	LIN.FT.	70		70
WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	LIN.FT.	226	226	
PAVEMENT MARKING TAPE	LIN.FT.	20		20
TEMPORARY CONCRETE BARRIER, TERMINAL SECTION	EACH	2		2
PAVEMENT MARKING TAPE, TYPE III 4"	LIN.FT.	5,600	880	4,720
CHAIN LINK FABRIC	LIN.FT.	451	451	
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3.4	2.72	0.68
SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	1.34		1.34
TOTALS	HOURS	334	267	67

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0-6	1978-142-88-78	COOK	50	33
F.W.A. NO.		ILLINOIS PROJECT	P-91-272-78	

PLAN NOTES

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED OCTOBER 1, 1979, (REFERRED TO AS "STANDARD SPECIFICATIONS"), THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" ADOPTED JULY, 1981; "THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" INCLUDING THE LATEST REVISIONS THEREOF, AND THE SPECIAL PROVISIONS SHALL GOVERN FOR THIS PROJECT UNLESS OTHERWISE SHOWN OR NOTED ON THESE DRAWINGS.

THE CONTRACTOR SHALL INSPECT THE SITE OF THE PROJECT, AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, TRAFFIC AND OTHER ITEMS THAT EFFECT THE CONTRACT AND THE DETAILED REQUIREMENTS OF CONSTRUCTION.

ALL 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.

ALL SAWING OF EXISTING ASPHALT SURFACE SHALL BE CONSIDERED AS INCIDENTAL TO THE REMOVAL ITEM INVOLVED.

REPAIR AREAS AND CRACKS WERE OBSERVED DURING A FIELD INSPECTION MADE JULY, 1980. SIZE AND LOCATION OF CRACKS AND REPAIR AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND ARE SUBJECT TO FIELD VERIFICATION.

EXISTING STREET LIGHTING IS NOT TO BE DISTURBED.

INDEX OF SHEETS AND BILL OF MATERIAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAUMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE - NONE DRAWN BY R. Russell SHEET No. 0-1
DATE - 5-7-79 CHECKED BY Ray Rankin

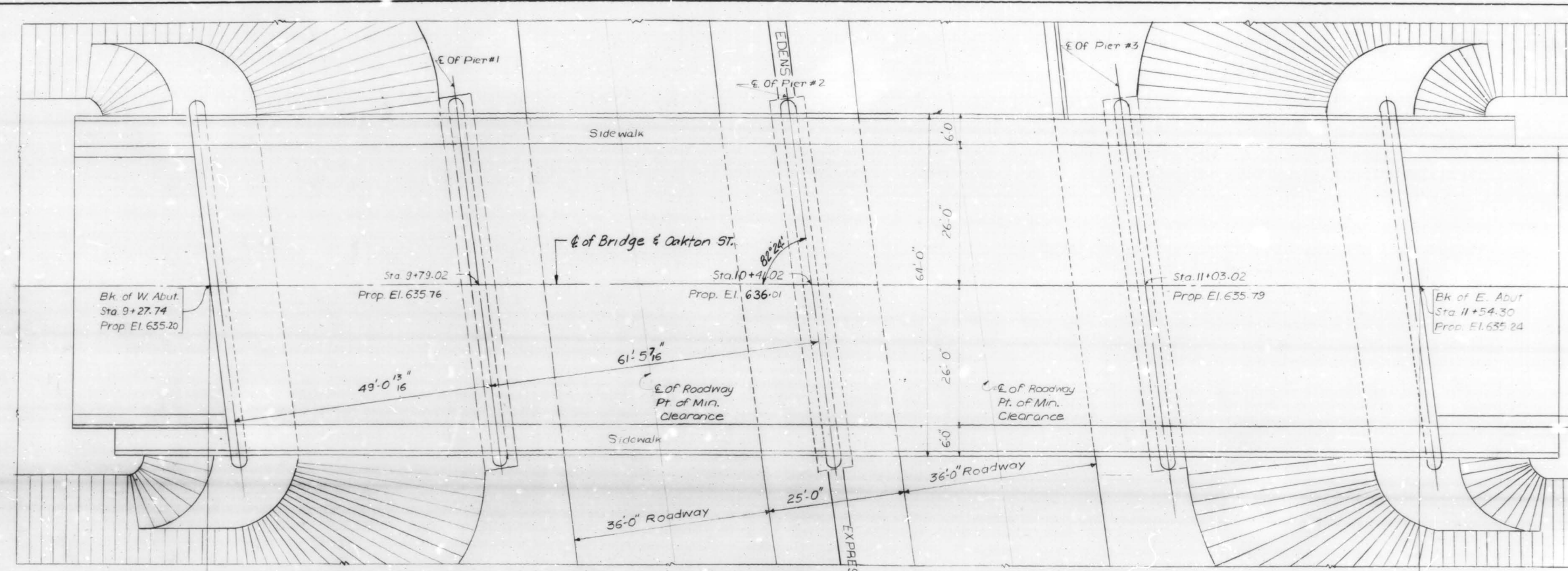
REVISIONS	
DATE	BY
7-15-81	D.C.
1-22-82	R.C.S.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-RR-78	COOK	50	34
P. HW. A. REB.		ILLINOIS PROJECT		

P-91-272-78

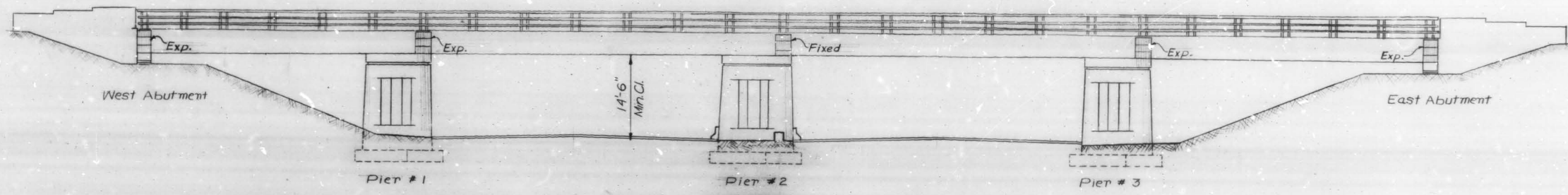


BENCH MARK:
A standard CCHD bronze disk set in the South corner of Pier 3, 33 ft. South of the Center Line of Oakton Street, Elevation 635.458



PLAN

226'-6 3/4" BK. TO BK. ABUTS.



ELEVATION

SCOPE OF WORK

Existing Bridge No. 016-0827 @ Station 155+23.8 built in 1950 as Federal Aid Highway on FAI Route 94 at Oakton Street over Edens Expressway. Make partial and full depth repair, where required, and entire concrete deck is to be covered with waterproof membrane system and bituminous concrete surfacing. Fascia beams are to be protected by metal flashings. Existing expansion joints at abutments and approaches are to be replaced. Piers and abutments are to be repaired. Both the approaches shall have bituminous concrete overlay. Replace the settled approach sidewalks in all four quadrants. Replace the settled curbs at S-E and N-W quadrants. Roller bearings are to be adjusted. Provide lane and cross walk marking as shown.

GENERAL NOTES

1. 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.
2. Reinforcement bar bending dimensions are out to out.
3. All exposed concrete edges shall have 3/4" chamfer unless otherwise indicated.
4. Structural Steel Flashing at the fascia beams shall conform to the requirements of AASHTO M183 and shall be hot dip galvanized.
5. Expansion bolts consist of approved expansion anchors, providing certified minimum proof load = 4,080 lbs., and 3/4" x 12" hooked bolts.
6. The basic lead silico chromate paint system shall be used for shop & field painting of all new structural steel.
7. Replace all missing nuts at the bearing plates.
8. Sequence of construction shown on sheet 0-4 and Sheet 48.
9. Edens Traffic is not to be interfered with for any reason.
10. PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

Design Specifications:
AASHTO 1977 and Interims 1978 Thru 1980

Design Loading: HS 20-44

Design Stresses:
f_c = 1400 psi (Class X Concrete)
f_s = 20000 psi (New Structural Steel and Reinforcement)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Carl E. Thompson
Engineer in Charge

GENERAL PLAN AND ELEVATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

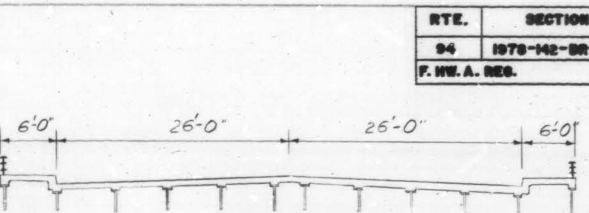
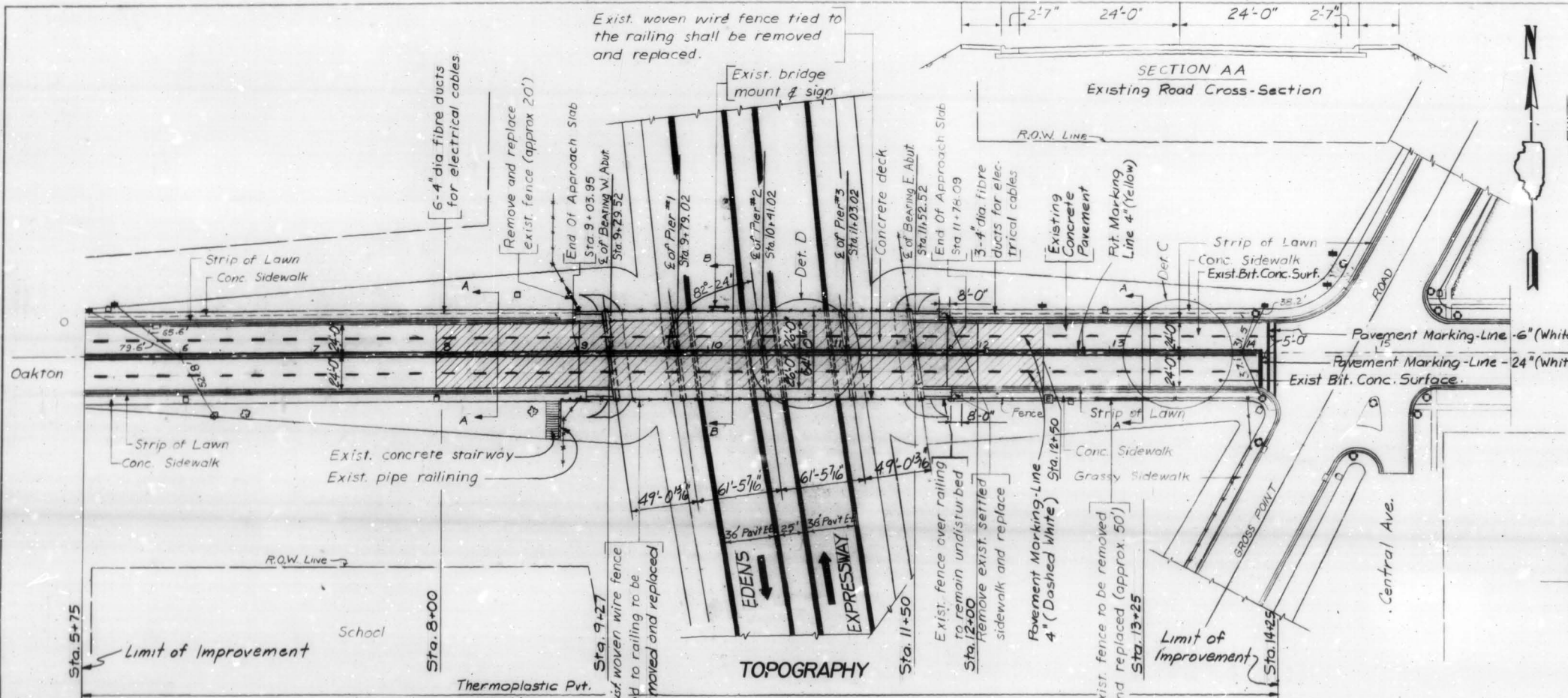
GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

REVISIONS	
DATE	BY
7-15-81	D.C.
1.22.82	R.C.S.

SCALE: NONE DRAWN BY: R. Russell SHEET No. 0-2
DATE: 5-7-79 CHECKED BY: Roy P. ...

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1078-142-88-78	COOK	48	35
F. HW. A. REG.		ILLINOIS PROJECT		

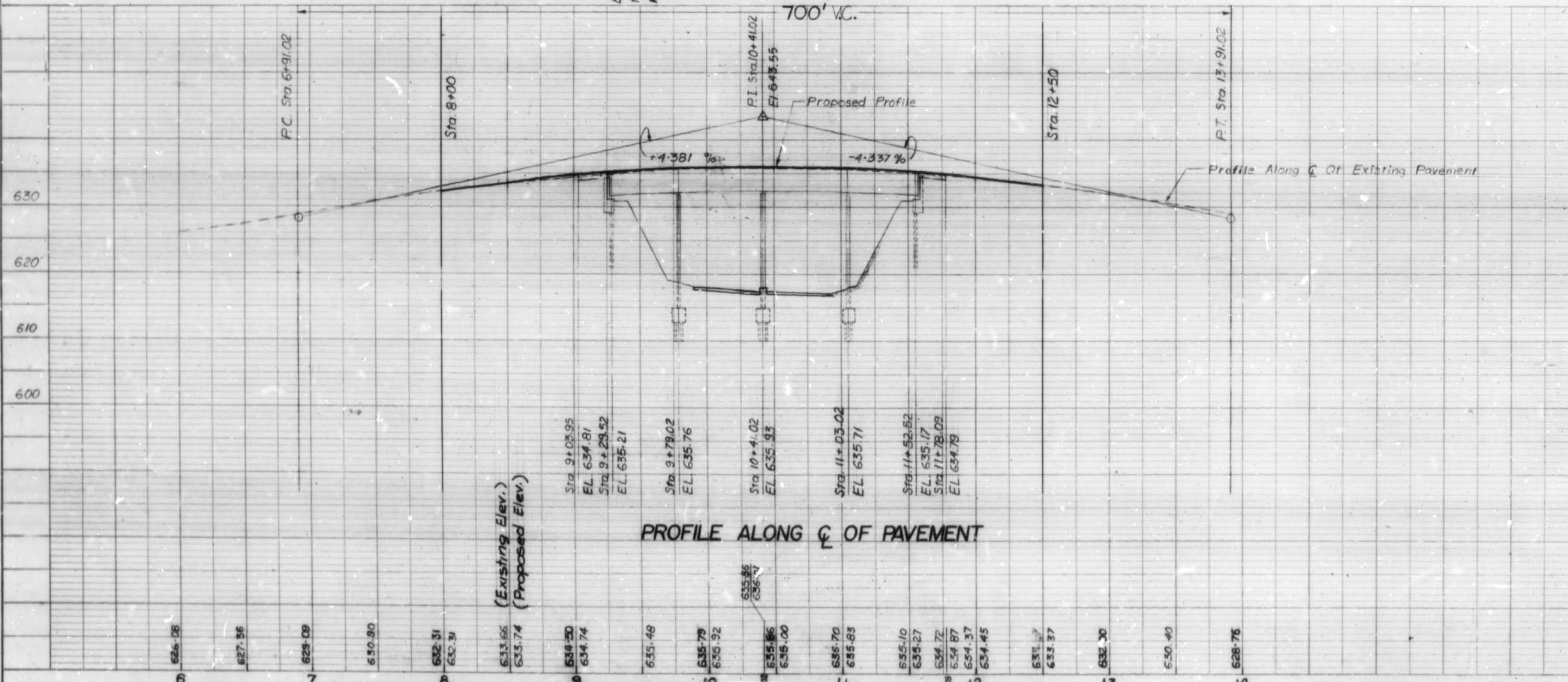
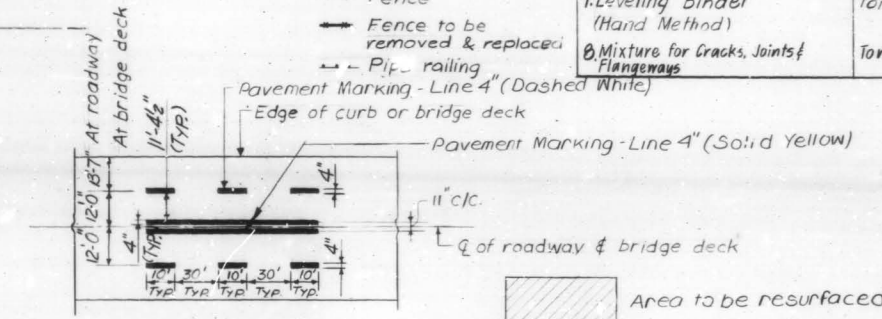
P-91-272-78



SECTION BB Existing Bridge Cross-Section Legend:

- Fire hydrant
- Catch basin
- Inlet
- Electric pole
- ▣ Electric vault
- Traffic sign
- Traffic signal
- Tree
- Hedge
- Fence
- Fence to be removed & replaced
- Pile railing

BILL OF MATERIAL		UNIT	QTY.
ITEM			
1. Chain Link Fence Removal and replacement.	LIN.FT.	70	
2. Woven Wire Fence Removal and replacement.	LIN.FT.	226	
3. Thermoplastic Pvt. Marking Line-4"	LIN.FT.	2190	
4. Thermoplastic Pvt. Marking Line-6"	LIN.FT.	240	
5. Thermoplastic Pvt. Marking Line-24"	LIN.FT.	120	
6. Pvt. Removal and Portland Cement Concrete Replacement, Special 9"	SQ. YD.	45	
7. Leveling Binder (Hand Method)	Ton	5	
8. Mixture for Cracks, Joints & Flangeways	Ton	5	



- Note: 1. Elevation shown in the profile are exist. and fin. elevs.
 2. Lane markings as shown in this drawing are permanent lane marking. Permanent lane marking shall be placed after completion of the repair work.
 3. For detail of proposed deck improvement see Sheet no. 0-5 and 0-6.
 4. Top of finished bridge deck elevations shown on this plan are based on a 2" thick Waterproof Membrane System and Bituminous Concrete Surface.

TOPOGRAPHY AND PROFILE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
 1000 PLAZA DRIVE, SCHAMBURG, ILL.

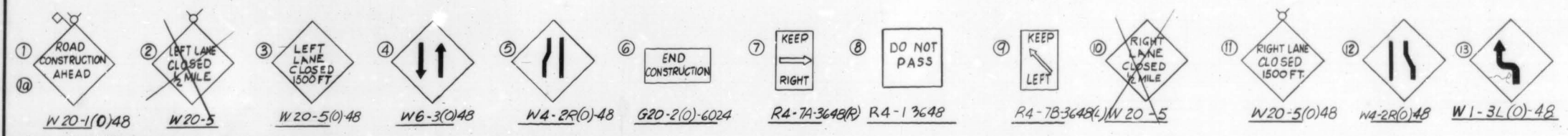
REHABILITATION OF
 OAKTON STREET GRADE SEPARATION OVER
 EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
 CONSULTING ENGINEERS
 1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

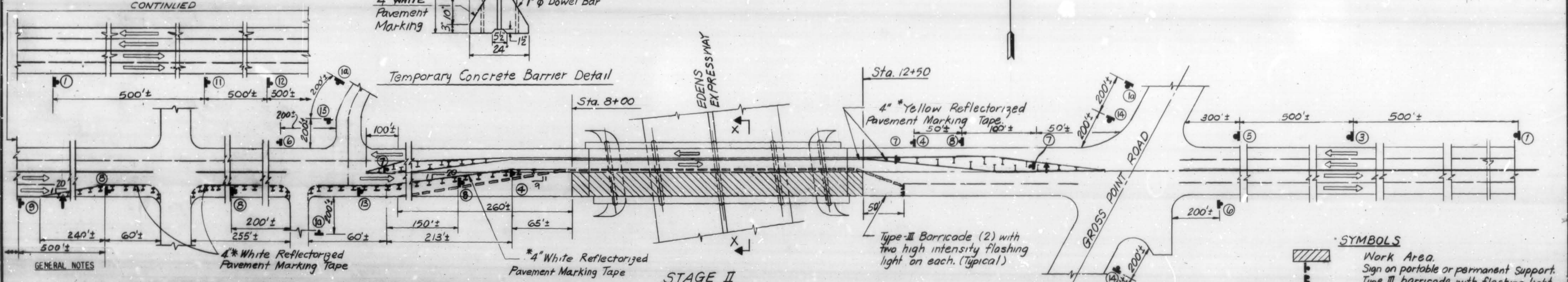
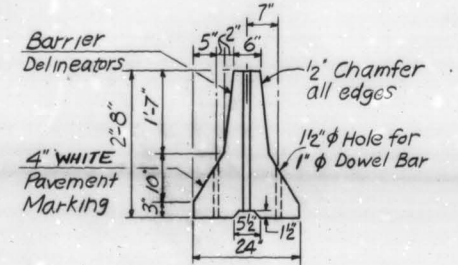
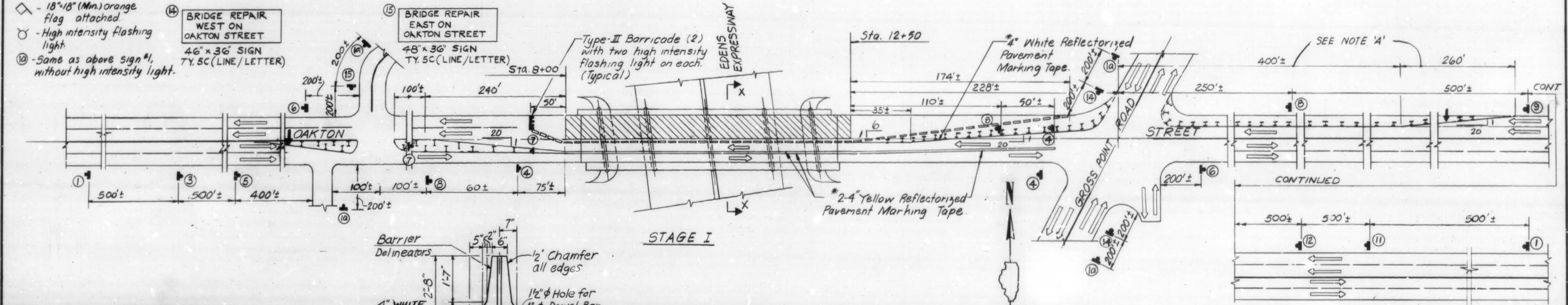
SCALE: NONE DRAWN BY: R. Russell SHEET No. 0-3
 DATE: 5-7-79 CHECKED BY: Ray P. Smith

PLAN
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____

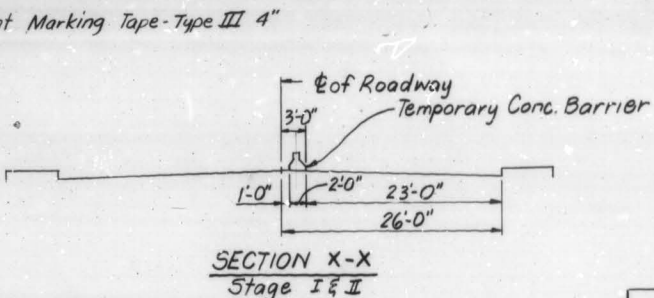
PROFILE
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____



18"x18" (Min.) orange flag attached.
 High intensity flashing light.
 Same as above sign #1, without high intensity light.



- GENERAL NOTES**
- ALL TRAFFIC CONTROL DEVICES USED IN CONJUNCTION WITH THE WORK REQUIRED SHALL CONFORM TO THE APPLICABLE PORTIONS OF CHAPTERS 2, 3 AND 6 OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," LATEST EDITION.
 - TEMPORARY CONCRETE BARRIER SEE STD. 2383.
 - FOR DETAILS OF THE STANDARD PAVEMENT MARKING SEE CHAPTER 3 OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (M.U.T.C.D.).
 - ADVISORY SPEED PLATES (C13-1-2424) MAY BE REQUIRED AND SHALL BE MOUNTED BELOW CERTAIN WARNING SIGNS AS DETERMINED BY THE ENGINEER.
 - ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT INTERSECTING SIDE OR CROSS ROADS IF AND WHERE DETERMINED BY THE ENGINEER AND SHALL BE PAID FOR IN ACCORDANCE WITH PARAGRAPH 109.04 OF STANDARD SPECIFICATIONS.
 - A MINIMUM OF TWO HIGH INTENSITY FLASHING AMBER LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE DETOUR AND THE WORK AREA. THE LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
 - ALL SIGNS SHALL BE POST MOUNTED.
 - WHERE FIELD CONDITIONS WARRANT, ADJUSTMENTS TO THE DIMENSIONS SHOWN MAY BE MADE UPON APPROVAL OF THE ENGINEER.
 - MODULES FOR INERTIAL BARRIER INSTALLATION SHALL CONFORM TO THE SPECIAL PROVISION FOR SAND MODULE IMPACT ATTENUATORS EXCEPT PRICE SHALL INCLUDE MAINTENANCE, RELOCATION AND REMOVAL OF MODULES OFF R.O.W.
 - ALL EXISTING PAVEMENT MARKINGS THAT HAVE CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS REQUIRED BY THE PLANS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 107.30 OF THE STANDARD SPECIFICATIONS. THIS REMOVAL IS TO BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR "TRAFFIC CONTROL AND PROTECTION" AND NO ADDITIONAL COMPENSATION WILL BE PAID THE CONTRACTOR FOR THIS WORK.



Note: For Stages of Construction Sequence, see Notes on Sheet 48.
 Note 'A' - Delete the barricades at the Road intersections and Driveways.
 All Temporary Barrier wall shall end with tapered end sections.
 Barrier wall shall be equipped with steady-burning lights @ 20' ctrs.

BILL OF MATERIALS		
ITEM	UNIT	QUANT.
Traffic Control & Protection (Structure-3)	L.SUM.	0.34
Deliver Temporary Concrete Barrier	UNIT MILE	4680
Install Temporary Concrete Barrier	LIN.FT.	780
PAVEMENT MARKING TAPE-TYPE III 4"	LIN.FT.	5600
RELOCATE TEMPORARY CONCRETE BARRIER	LIN.FT.	680
TEMPORARY CONCRETE BARRIER, TERMINAL SECTION	EACH	2

- SYMBOLS**
- Work Area
 - Sign on portable or permanent Support
 - Type III barricade with flashing light
 - Type I or Type II barricade with steady burning light. 25' C/C
 - Temporary Concrete Barrier (STD. 2383)
 - ARROW BOARD
- FOR ADDITIONAL INFORMATION SEE STD. 2310

TRAFFIC CONTROL PLAN

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DISTRICT I
 1000 PLAZA DRIVE, SCHALKBURG, ILL.

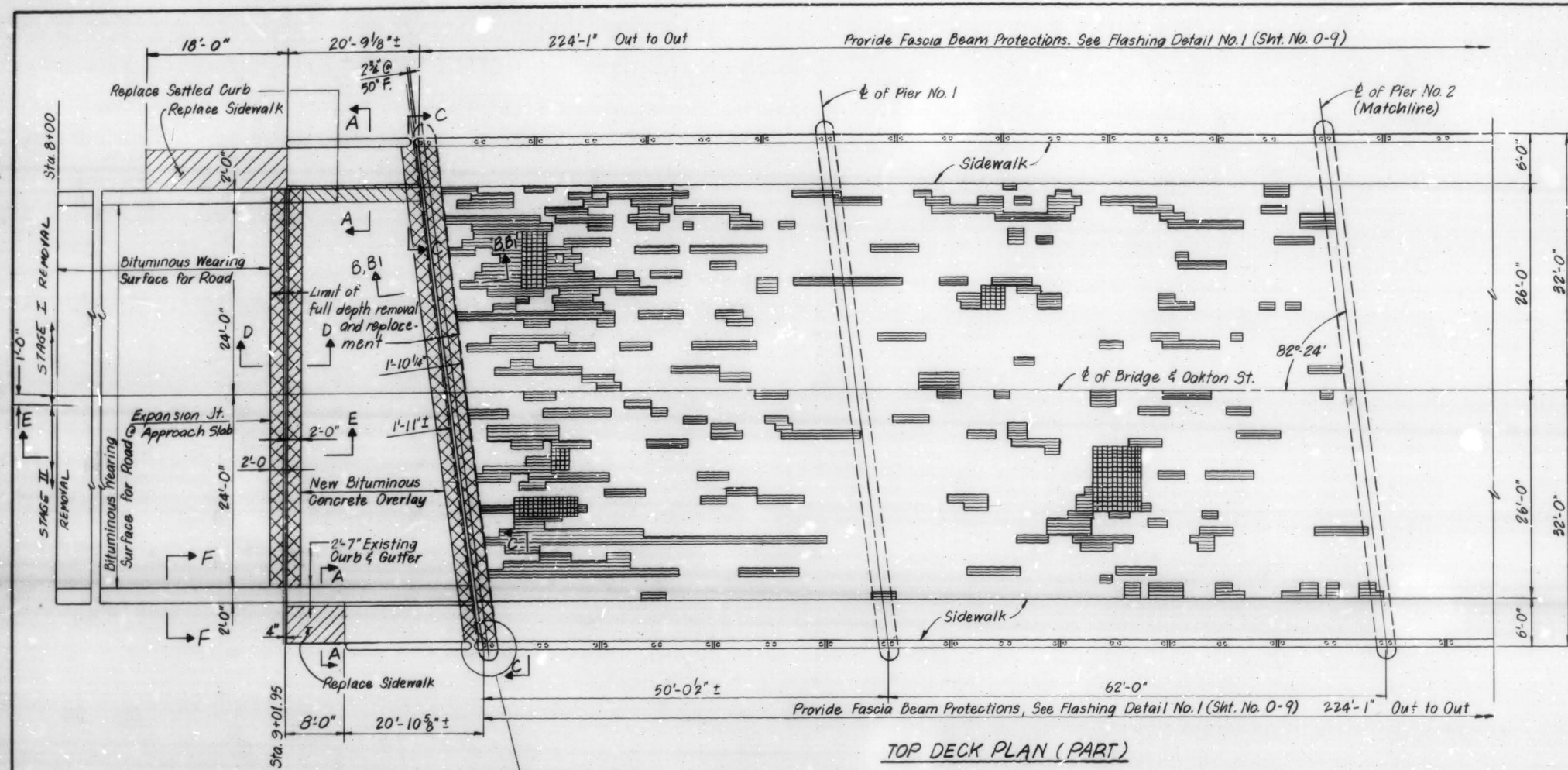
REHABILITATION OF
 OAKTON STREET GRADE SEPARATION OVER
 EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
 CONSULTING ENGINEERS
 1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE None DRAWN BY D.C. SHEET No. C-4
 DATE 7-15-81 CHECKED BY N.A.F.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-BR-78	COOK	50	37
F. H. A. RES.		ILLINOIS	PROJECT	

P-91-272-78



LEGEND

	Partial Depth Repair
	Replacement of Sidewalk
	Concrete Removal of Expansion Joint and Class X Concrete Replacement
	Full Depth Repair

Notes:
 For Sections B-B, B1-B1, C-C and D-D, see Sheet O-8
 For Sections A-A, E-E and F-F, see Sheet O-9
 For East Half, see sheet O-6
 For reinforcement, see Sheet O-7
 For construction stages see O-4; sheet 48
 For Bill of Material see sheet O-6

Contractor shall support handrailing and posts during rehabilitation of the expansion joint over sidewalk. Detail 7, Sht. O-9.

SCOPE OF WORK - BRIDGE DECK AND APPROACHES

1. ONE HALF OF THE BRIDGE (2 LANES) SHALL BE CLOSED AT ONE TIME, PER SEQUENCE OF CONSTRUCTION.
2. REMOVE CONCRETE DECK AND APPROACH SLAB WITHIN THE LIMITS SHOWN FOR THE TRANSVERSE EXPANSION JOINTS.
3. CONTRACTOR TO PROVIDE PLANKING ON TOP OF LOWER FLANGES OF STEEL BEAMS OVER THE ACTIVE LANES OF EDENS SUPER-HIGHWAY WHERE REQUIRED TO KEEP DEBR'S FROM DROPPING ONTO THE EXPRESSWAY.
4. PARTIAL AND FULL DEPTH DECK SLAB REPAIRS SHALL BE MADE.
5. MAKE PARTIAL AND FULL DEPTH REPAIRS IN AREAS MARKED ON THE PLANS REQUESTED BY THE ENGINEER. SEE SPECIAL PROVISIONS.
6. REMOVE TRANSVERSE EXPANSION JOINT AT EACH ABUTMENT.
7. REMOVE EXPANSION JOINT AT THE END OF THE APPROACH SLAB.
8. CLEAN ALL REINFORCING EXPOSED DURING THE REMOVAL. IF CORRODED REINFORCEMENT IS ENCOUNTERED SEE SPECIAL PROVISIONS.
9. ANY REBARS NICKED, CUT OR OTHERWISE DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED WITH THE SAME SIZE BAR AT THE CONTRACTORS' EXPENSE.
10. REPLACE THE FOLLOWING WITH CLASS X CONCRETE AND DETAILS SHOWN:
 A. PARTIAL SIDEWALK AND CURB REPAIRS.
 B. TRANSVERSE EXPANSION JOINT (INCLUDING JOINT ANGLE ASSEMBLES) AT EACH ABUTMENT.
 C. APPROACH SLAB EXPANSION JOINTS
11. PLACE ~~CONCRETE~~ **PJS @ EACH ABUTMENT IN ONE PIECE AFTER STAGE II CONCRETE IS PLACED**
12. PLACE WATERPROOFING MEMBRANE SYSTEM AND BITUMINOUS CONCRETE SURFACE COURSE ON THE BRIDGE DECK.
13. REPLACE CURB AND GUTTER SECTIONS AT LOCATIONS SHOWN ON THE DRAWINGS.
14. REPLACE EXPANSION JOINT AT END OF THE APPROACH SLAB.
15. PLACE BITUMINOUS CONCRETE OVERLAY OR APPROACH SLABS AND PAVEMENT.
16. THE FINISH SURFACE OF THE BRIDGE AND THE CROSS SLOPE SHALL MATCH THE PROFILE SHOWN ON SHEET O-3 AND THE CROSS SLOPE SHOWN ON SHEET O-5.

TOP DECK PLAN - WEST HALF

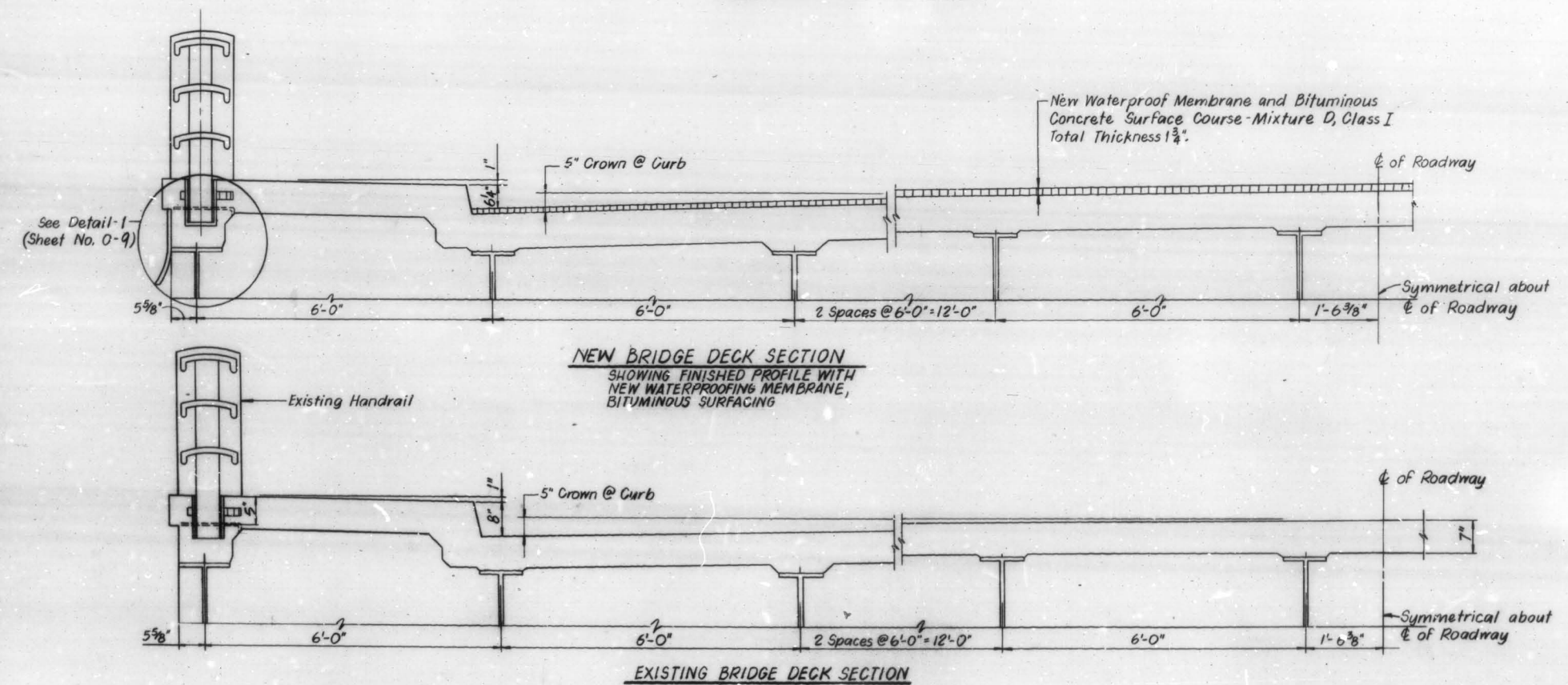
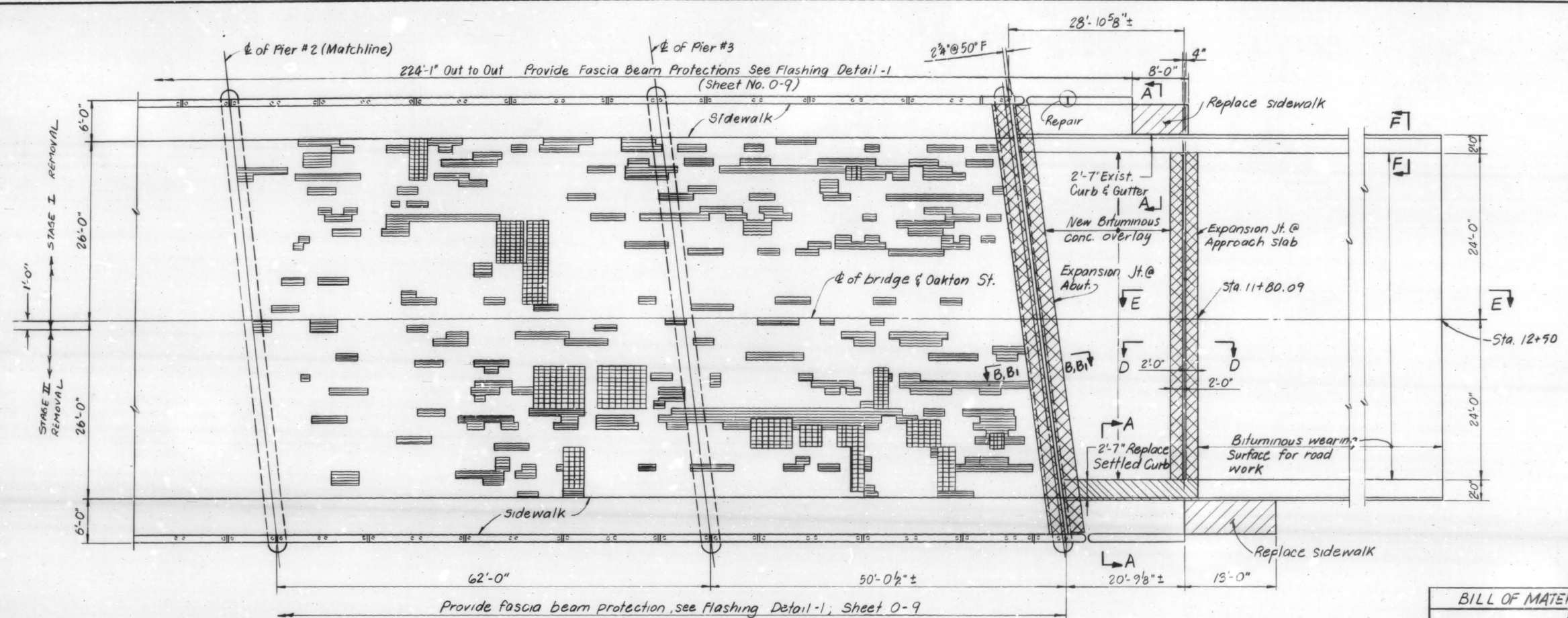
ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAUMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE None	DRAWN BY: P.C.	SHEET No.
DATE 7-15-81	CHECKED BY: N.A.F.	0-5



BILL OF MATERIAL - for Superstructure & Approaches -

ITEM	UNIT	QUANT.
1. Reinforcement Bars	LBS.	3920
2. Deck Slab Repair (Full Depth)	SQ. YD.	39
3. Deck Slab Repair (Partial Depth)	SQ. YD.	224
4. Concrete Removal	CU. YD.	34.3
5. Waterproofing Membrane System	SQ. YD.	1283
6. Class X Concrete	CU. YD.	35.4
7. Bituminous Material (Prime Coat)	GALLON	105
8. Fascia Beam Protection Flashing	LIN. FT.	452
9. Furnishing & Erecting Structural Steel	LBS.	5790
10. Preformed Joint Seal - 4"	LIN. FT.	130
11. Preformed Joint Filler - 4"	LIN. FT.	96
12. Concrete Curb & Gutter Removal & Replacement	LIN. FT.	45
13. Bituminous Conc. Binder Course Mixture B	TON	44
14. Bituminous Conc. Surface Course Mixture D, Class I	TON	129
15. Sidewalk Removal & Replacement	SQ. FT.	205
16. Protective Coat	SQ. YD.	34.3
17. Chain Link Fabric	LIN. FT.	451

Notes:
 For Sections B-B, B₁-B₁, C-C and D-D, see Sheet 0-8.
 For Sections A-A, E-E and F-F, see Sheet 0-9.
 For Notes see Sheet 0-5
 For reinforcement, see Sheet 0-7.
 For construction stages see sheet 0-4 and sht. 48.
 For Legend of Deck repairs see sheet 0-5.

TOP DECK PLAN - EAST HALF

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

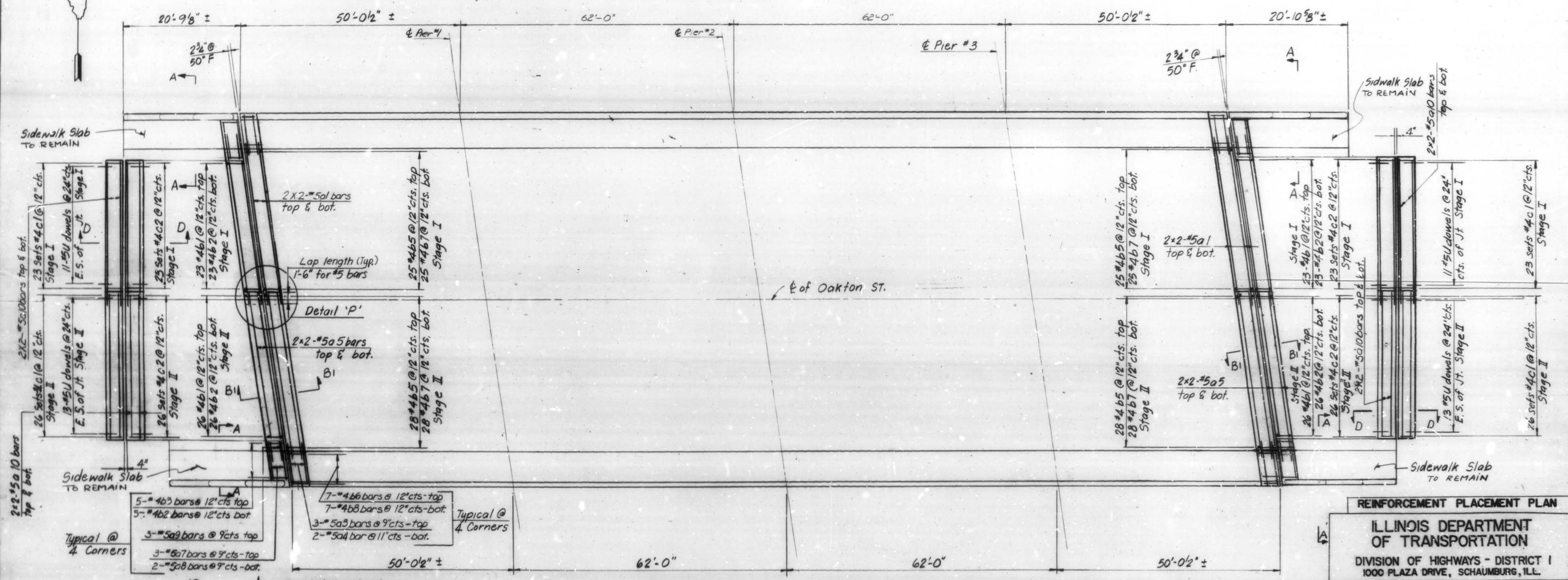
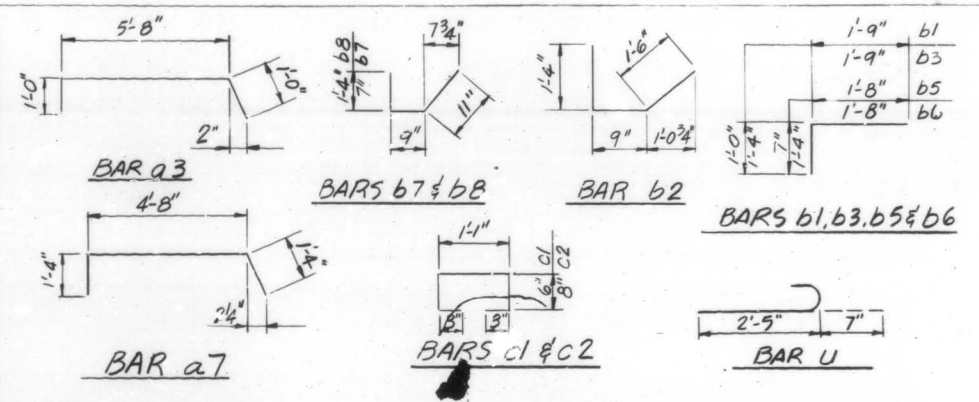
GLOBETROTTERS ENR. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE None DRAWN BY D.C.
DATE 7-15-81 CHECKED BY N.A.F. SHEET No. 0-6

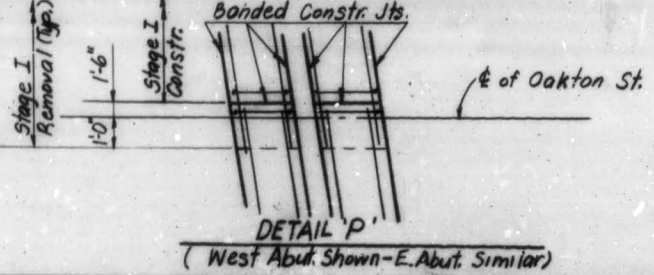
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-DR-78	COOK	39	39
F.W.A. REG.		ILLINOIS PROJECT		
P-91-272-78				

BILL OF MATERIAL				
BARS	NO	SIZE	SHAPE	LENGTH
Q1	16	#5	—	28'-0"
Q3	12	#5	—	7'-8"
Q4	8	#5	—	5'-9"
Q5	16	#5	—	25'-3"
Q7	12	#5	—	7'-4"
Q8	8	#5	—	7'-3"
Q9	12	#5	—	4'-0"
Q10	32	#5	—	25'-3"
b1	98	#4	—	2'-9"
b2	118	#4	—	3'-7"
b3	20	#4	—	3'-1"
b5	106	#4	—	2'-3"
b6	28	#4	—	3'-0"

BILL OF MATERIAL				
BARS	NO	SIZE	SHAPE	LENGTH
b7	106	#4	—	2'-3"
b8	28	#4	—	3'-0"
C1	196	#4	—	2'-7"
C2	196	#4	—	2'-11"
U	96	#5	—	3'-0"



5-#4b3 bars @ 12" cts top	7-#4b8 bars @ 12" cts bot.	Typical @ 4 Corners
5-#4b2 bars @ 12" cts bot	3-#5a3 bars @ 9" cts top	
5-#5a9 bars @ 9" cts top	2-#5a4 bar @ 11" cts bot.	
3-#5a7 bars @ 9" cts top	2-#5a8 bars @ 9" cts bot.	



REINFORCEMENT STEEL PLACING PLAN

Notes:
 Work this sheet with Sheets 0-5, 0-6, 0-8 & 0-9.
 For Section A-A, see Sheet 0-9.
 For Sections B-B, B-1 & D-D, see Sheet 0-8.
 Bars indicated thus 2x3-#5 indicate 2 lines of #5 bars with 3 lengths per line.
 E.S. = Each Side

REINFORCEMENT PLACEMENT PLAN

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
 1000 PLAZA DRIVE, SCHAMBURG, ILL.

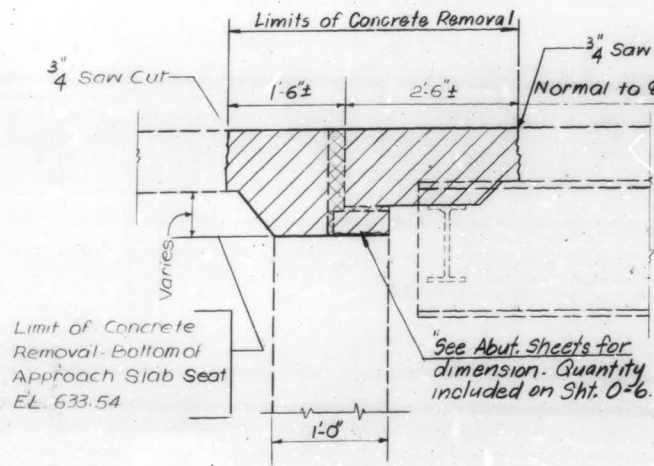
REHABILITATION OF
 OAKTON STREET GRADE SEPARATION OVER
 EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
 CONSULTING ENGINEERS
 1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

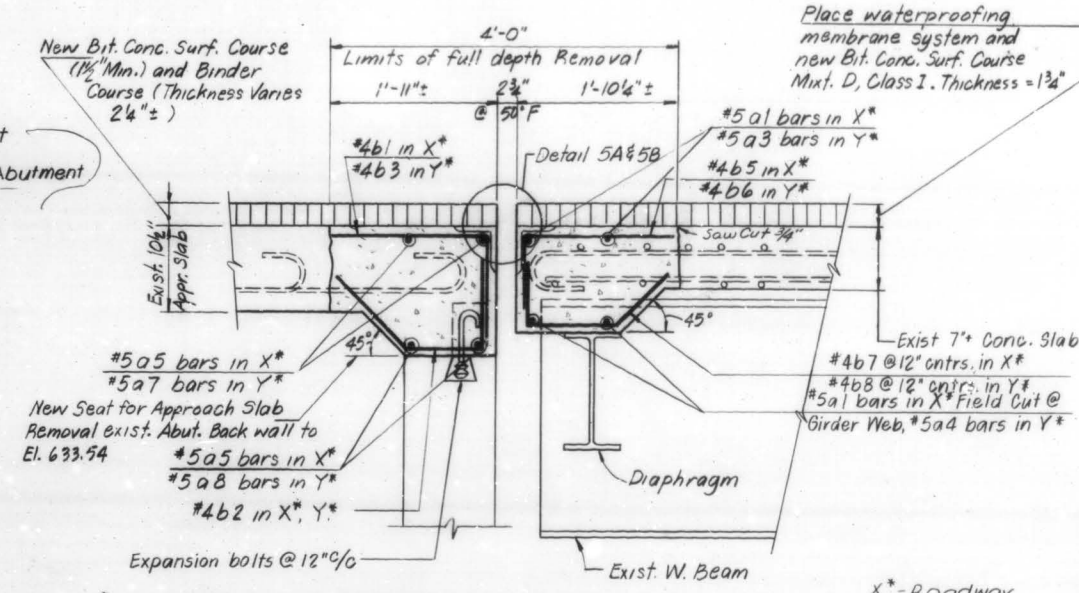
SCALE: NONE DRAWN BY: R. Russell SHEET No. 0-7
 DATE: 5-7-79 CHECKED BY: Roy Paultz

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1979-146-DR-78	COOK	50	40
F.W.A. RES.		ILLINOIS PROJECT		

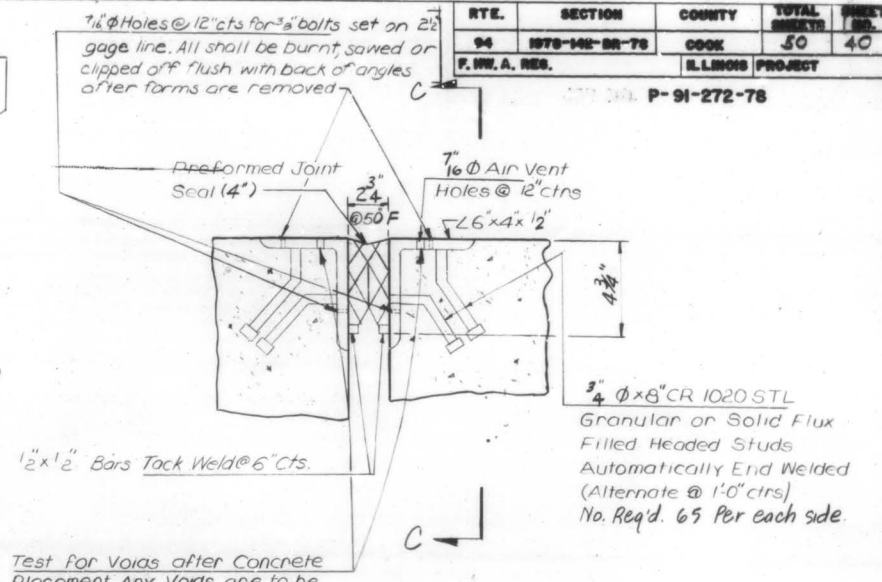
P-91-272-78



Existing Transverse Expansion Joint Details
SECTION B-B
(SHEETS 0-5 & 0-6)

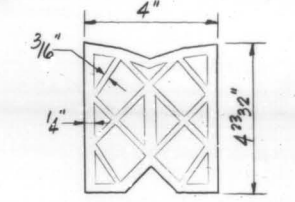


All exposed long existing reinforcing bars to be cleaned of rust and scale, and incorporated into new concrete.

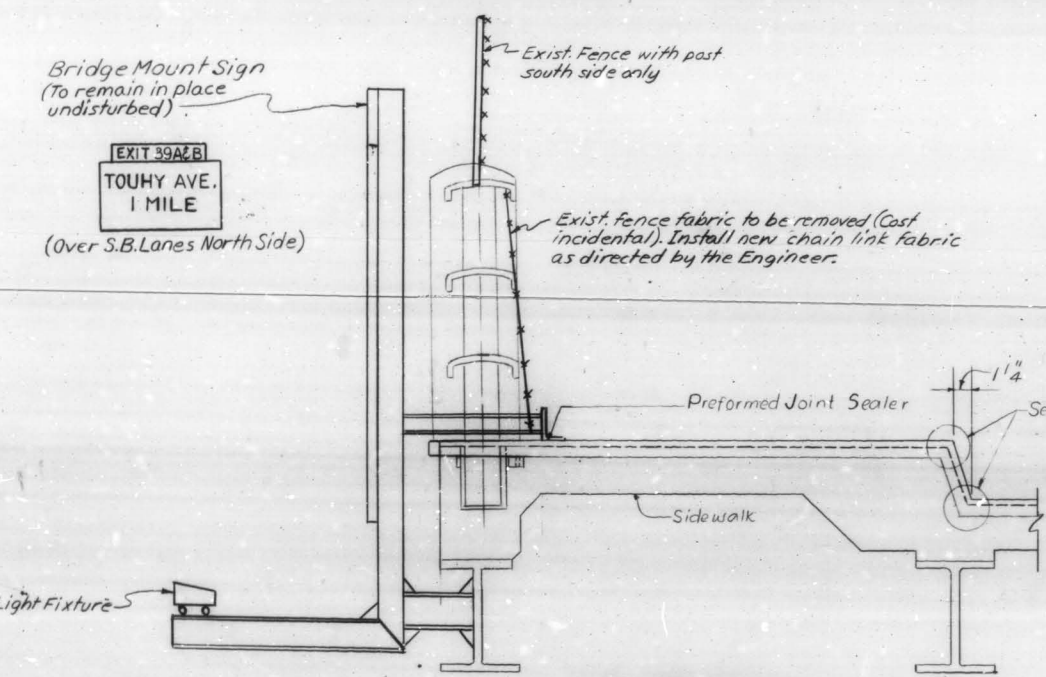


Test for Voids after Concrete Placement. Any Voids are to be Filled with Epoxy Under Pressure at no additional Cost. All nipples used to place epoxy shall be sheared clean at the surface of angle.

Transverse Expansion Joint Over Sidewalk & Face of Curb
DETAIL - 5B



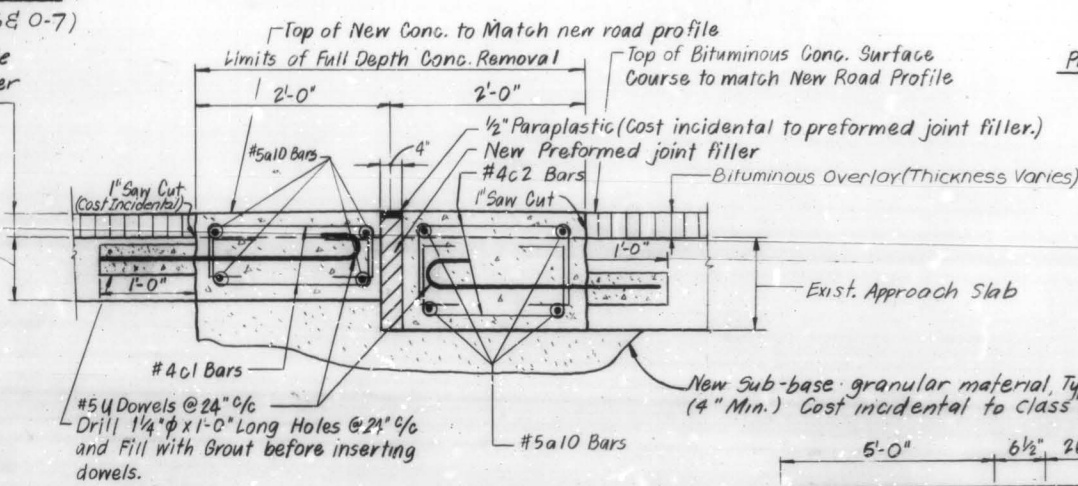
PREFORMED JOINT SEAL (4")



VIEW E-E
Showing treatment of armor L @ Stage Construction Jt. Place PTS after Stage II Const.

New Transverse Expansion Joint Details
SECTION B1-B1
(SHEETS 0-5, 0-6 & 0-7)

New Bituminous Concrete Course (1/2" Min.) and Binder Course. Thickness Varies (2 1/4"±)
Exist. Roadway Slab

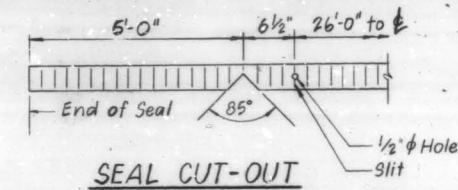


All exposed long existing reinforcing bars to be cleaned of rust and scale, and incorporated into the new concrete.

Expansion Joint At Approach Slab
SECTION D-D
(SHEETS 0-5, 0-6 & 0-7)

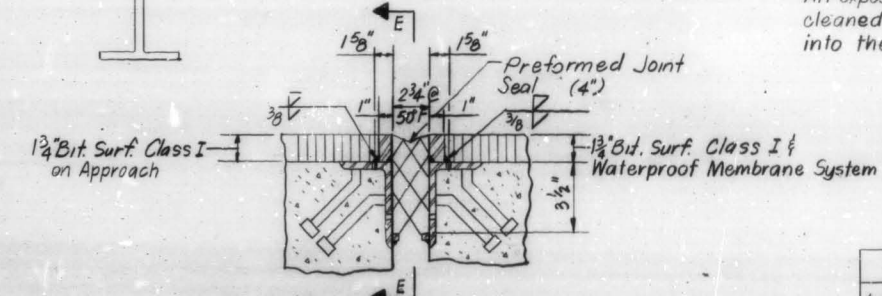
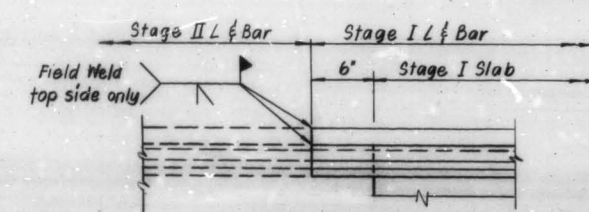
BILL OF MATERIAL

ITEM	UNIT	QTY.
1 Expansion Bolts - 3/4" Inch. φ	Each	132



SEAL CUT-OUT

Extent of Preformed Joint Over Sidewalk
SECTION C-C
(SHEETS 0-5 & 0-6)



Transverse Expansion Joint Over Roadway
DETAIL-5A
For additional detail and notes, see Detail-5B

MISCELLANEOUS EXPANSION JOINT REPAIR DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAMBURG, ILL.

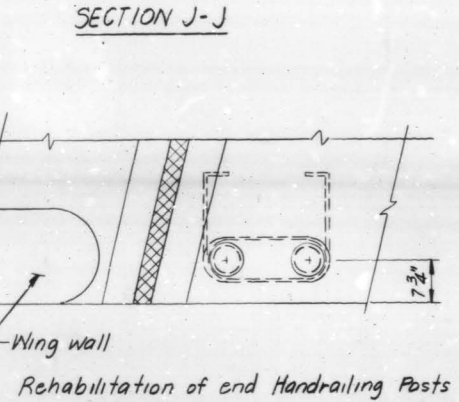
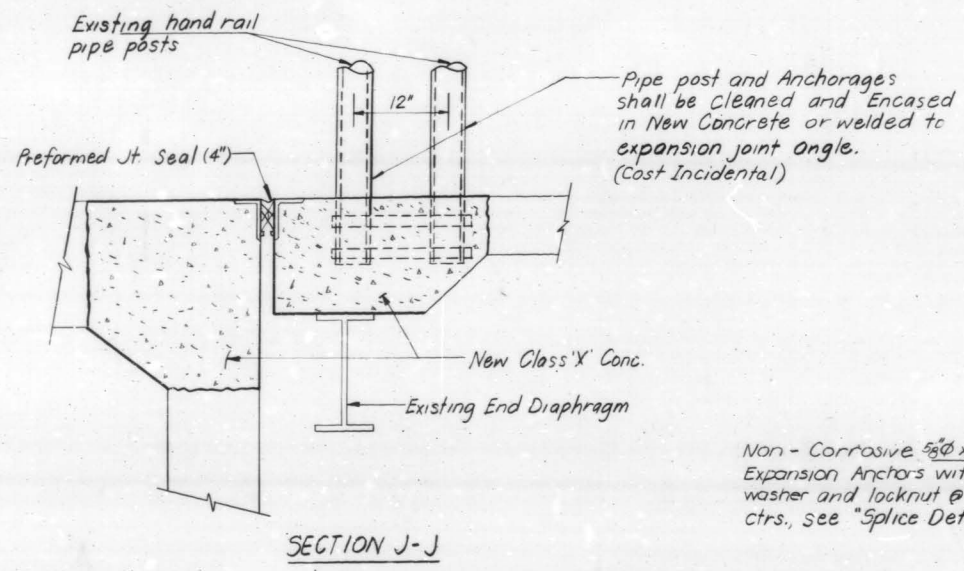
REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

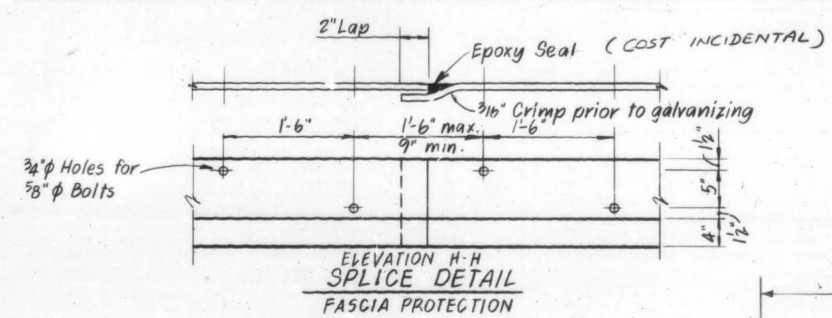
SCALE: NONE DRAWN BY: R. Russell SHEET No. 0-8
DATE: 5-7-79 CHECKED BY: Ray Russell

REVISIONS	
DATE	BY
7-15-81	D.C.
1.22.82	R.C.S.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04	1070-142-00-70	COOK	50	41
R.W.A. RES.		ILLINOIS PROJECT		
P-91-272-70				

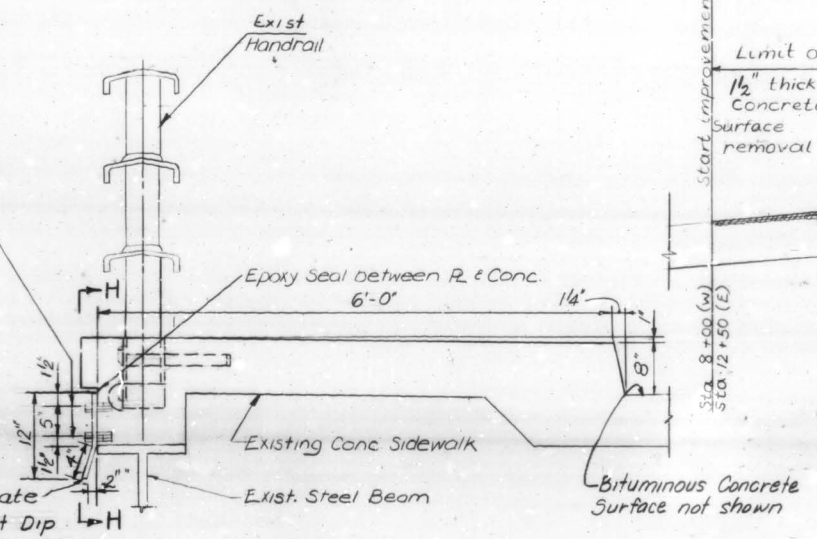


DETAIL - 7
Sheet 0-5

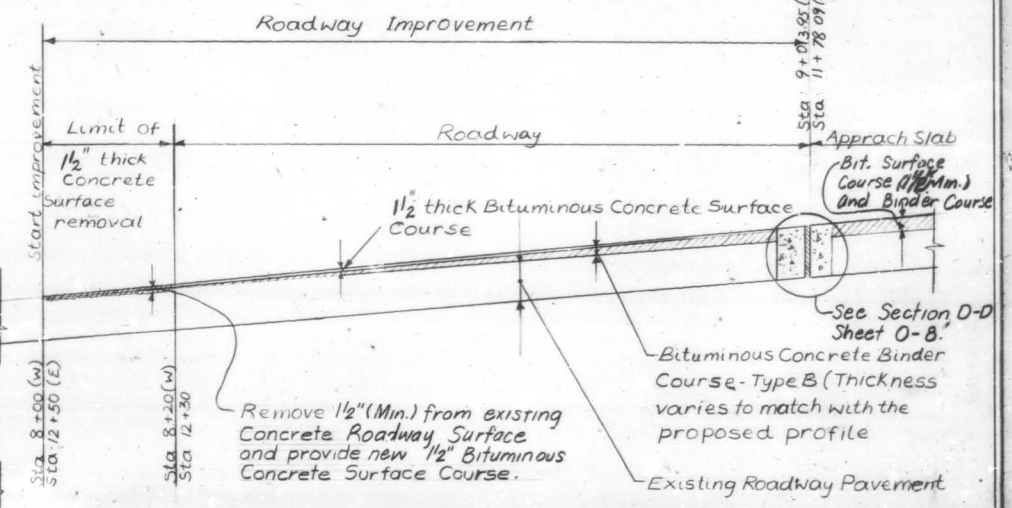


Non-Corrosive 5/8 inch diameter x 3 inch long Expansion Anchors with flat washer and locknut @ 1-6 inch ctrs., see "Splice Detail."

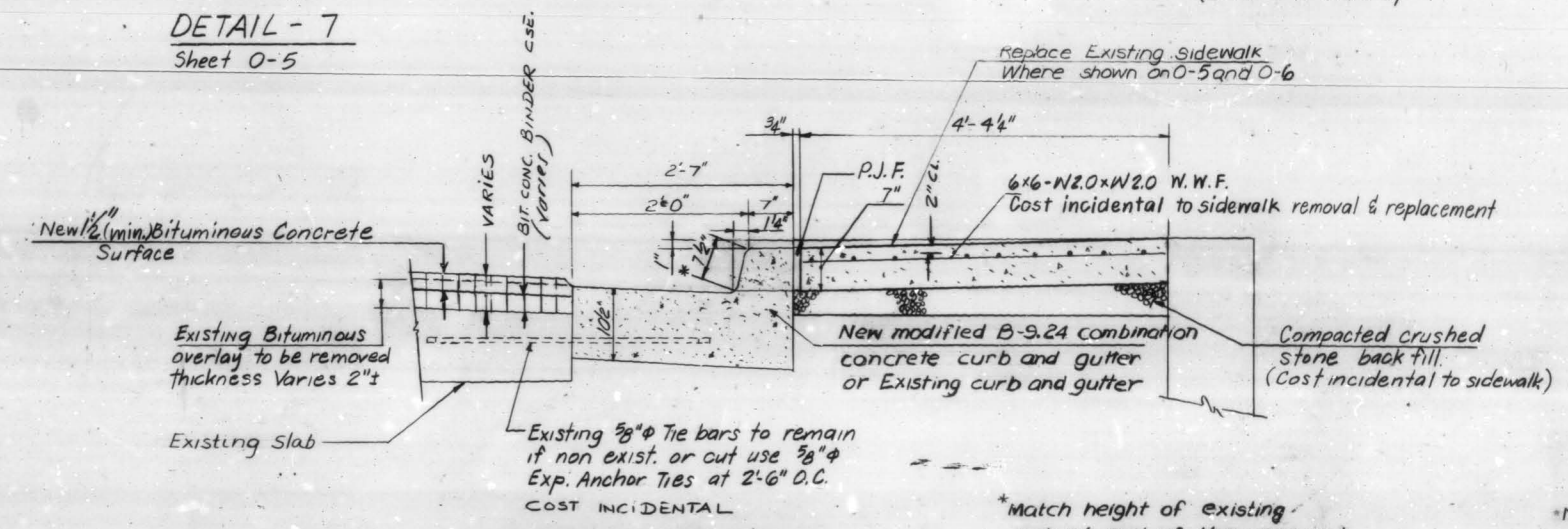
12 inch x 3/16 inch Thick Plate AASHTO M183 Hot Dip Galvanized (Length of each piece shall be determined by the Contractor)



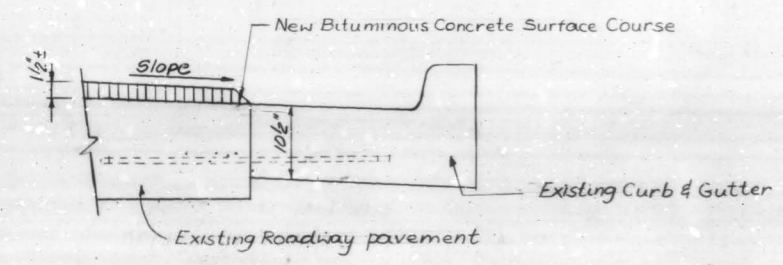
FLASHING PLATE
DETAIL-1
(SHEETS 0-5 & 0-6)



SECTION E-E
ROAD RESURFACING TO MATCH
BRIDGE APPROACH PROFILE
(SHEETS 0-5 & 0-6)



CURB AND GUTTER SECTION
AND SIDEWALK REPLACEMENT
SECTION A-A
(SHEETS 0-5, 0-6 & 0-7)



SECTION F-F
(SHEETS 0-5 & 0-6)

Note: Applicable for approach Slab and Roadway Section only where curb and gutter replacement is not required

MISCELLANEOUS REPAIR DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 FLAZA DRIVE, SCHAMBURG, ILL.

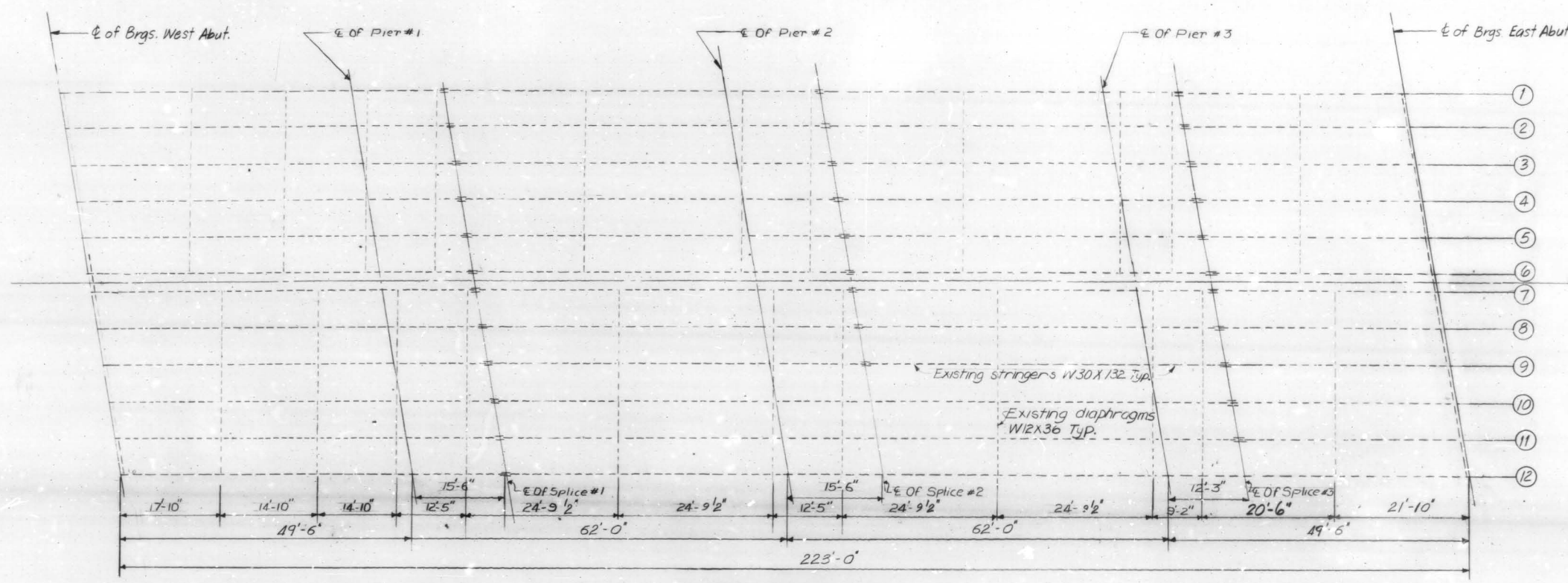
REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WASHAW AVE. CHICAGO, ILL. 60605

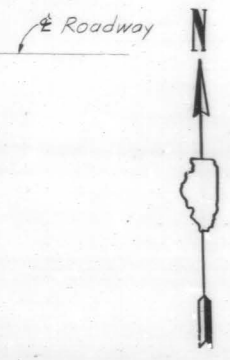
REVISIONS	
DATE	BY
7-15-81	D.C.
1.22.82	R.C.S.

SCALE: NONE DRAWN BY: R. Russett
DATE: 5-7-79 CHECKED BY: Roy Flinn

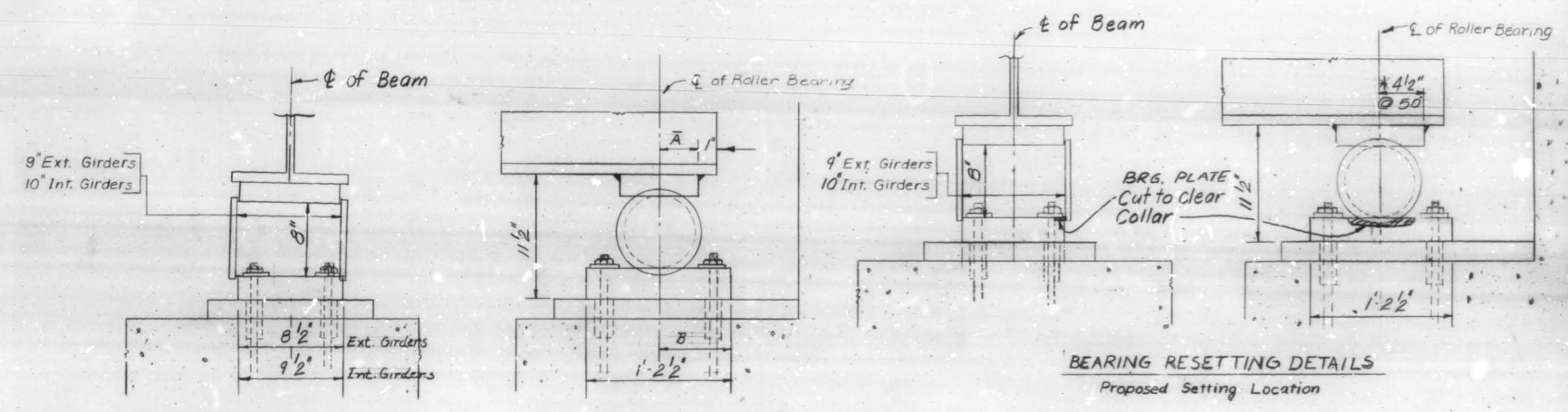
SHEET No.
0-9



SCOPE OF STRUCTURAL STEEL WORK
The rollers shall be jacked free of any loads. They shall be cleaned in accordance with Method 1 of the Specifications. The rollers shall be repositioned normal to the centerline of the girder and at the dimension shown (adjusted for temperature) on this sheet.



		East Abutment		West Abutment	
		A	B	A	B
North	B1	4 3/4"	8 3/8"	4"	8 5/8"
	B2	4 3/4"	8 1/2"	5"	9"
	B3	4 3/4"	7 3/4"	5"	9 3/8"
	B4	6 3/8"	9 1/2"	6"	9 3/8"
	B5	5 7/8"	8 3/8"	6"	9 5/8"
	B6	5 7/8"	9 8"	4"	7 7/8"
	B7	4 1/4"	8 1/4"	4"	7 7/8"
	B8	4 1/2"	8 8"	5"	8 8"
	B9	4 5/8"	8 1/8"	5"	7 3/4"
	B10	5 3/4"	9 1/2"	5"	8 3/8"
	B11	4 5/8"	8"	4"	7 3/4"
South	B12	5"	8 8"	4"	8 8"



* Shall be increased 1/8" for every 14° above 50° and decreased 1/8" for every 14° below 50°.

Bill And Material		
Item	Unit	Qty
Jack and Reposition Bearings	Each.	24

STEEL FRAMING REPAIR

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

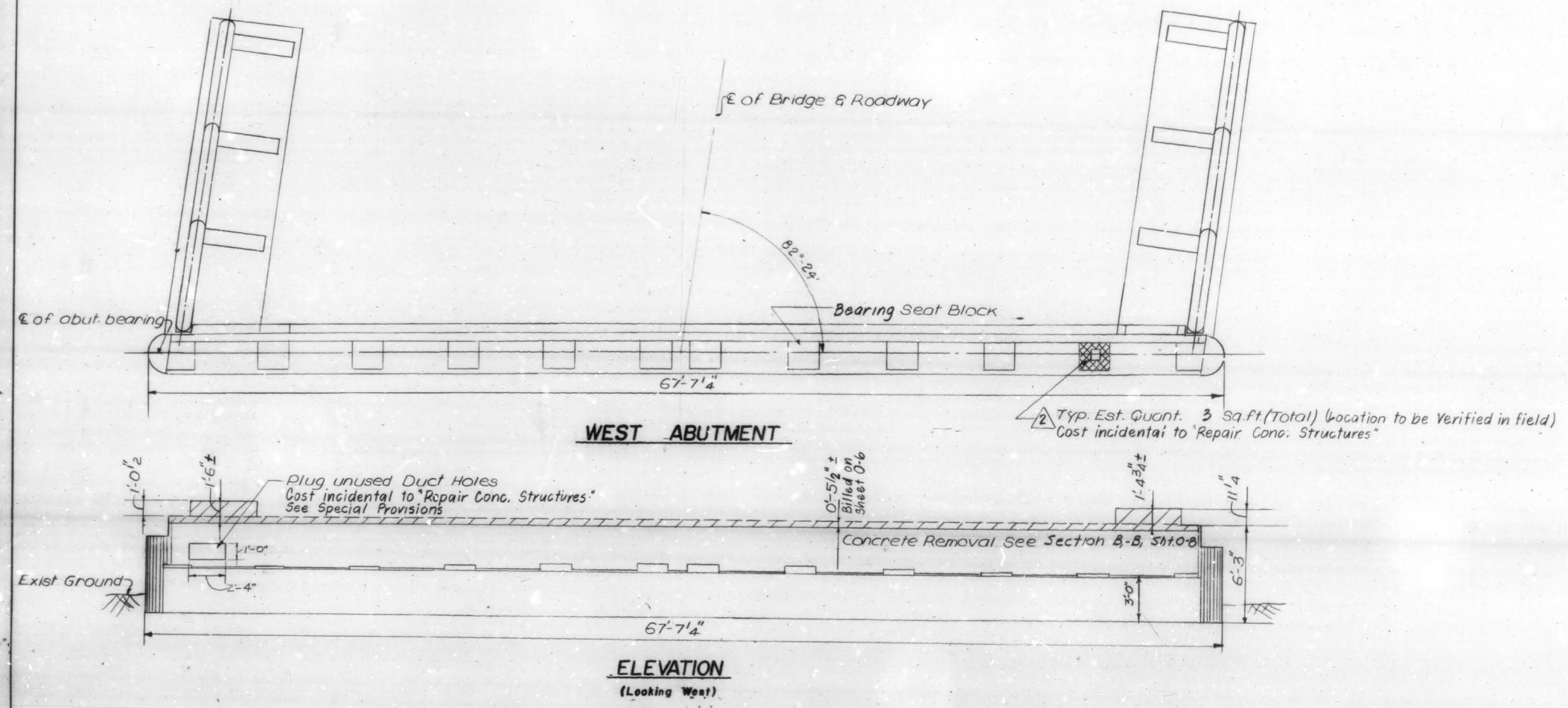
GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE: NONE DRAWN BY: R. Russell SHEET No. 0-10
DATE: 5-7-79 CHECKED BY: Ray Bush

REV. 1.22.82 P.C.S.

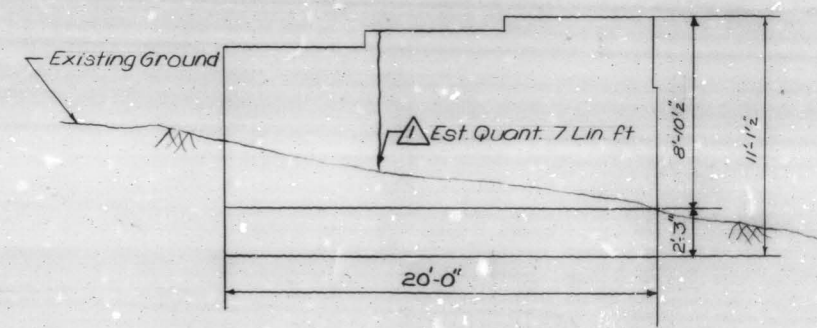
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1070-142-02-78	COOK	50	43
F.W.A. NO.		ILLINOIS PROJECT		

JOB NO. P-91-272-78



CONCRETE REPAIR NOTES

- ▲ CRACK: Cracks in concrete to be cleaned and epoxy pressure injected per item "Epoxy Crack Sealing"
- ▲ DELIMITATION: Remove disintegrated concrete as shown. Clean and replace per item "Repair Concrete Structures." See Special Provisions.



SOUTH WING WALL
(Looking North)

BILL OF MATERIAL

ITEM	TOTAL QUANT.
Epoxy Crack Sealing	7 Lin. Ft.
Repair Conc. Structures	3 Sq. Ft.

WEST ABUTMENT -- REPAIR

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, Schaumburg, ILL.

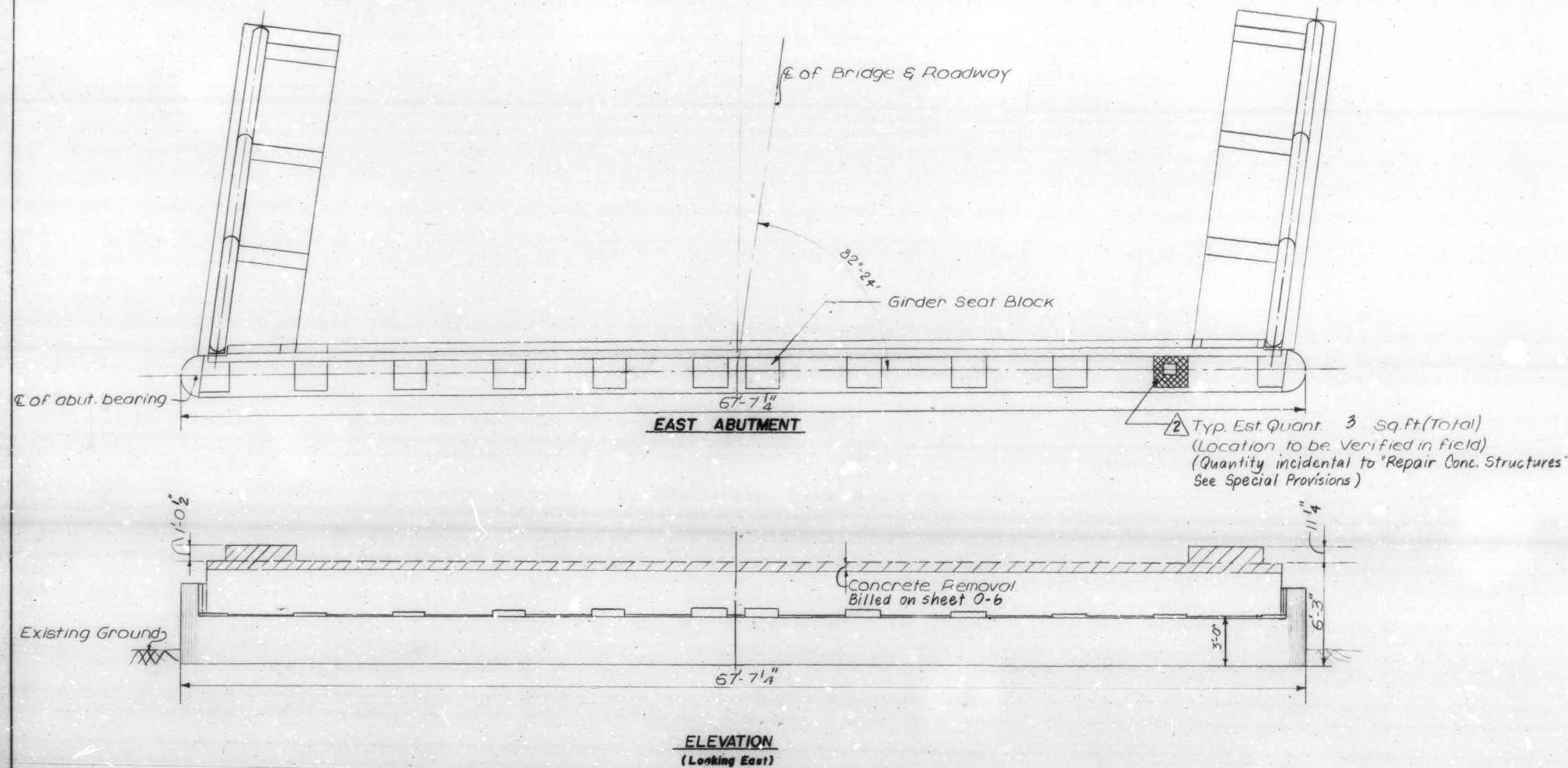
REHABILITATION OF
GAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH, AVE. CHICAGO, ILL. 60605

SCALE: NONE DRAWN BY: R. Russell SHEET No. 0-11
DATE: 5-7-79 CHECKED BY: G. Bush

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-DR-78	COOK	50	44
F.W.A. RES.		ILLINOIS PROJECT		

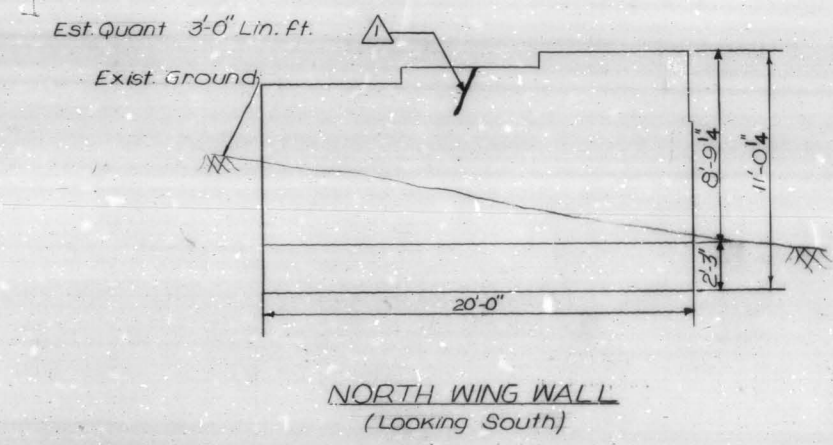
P-91-272-78



△ Typ. Est Quant. 3 sq.ft.(Total)
 (Location to be Verified in field)
 (Quantity incidental to "Repair Conc. Structures"
 See Special Provisions)

CONCRETE REPAIR NOTES

- 1. **CRACK:** Cracks in concrete to be cleaned and epoxy pressure injected per item "Epoxy Crack Sealing"
- 2. **DELAMINATION:** Remove disintegrated concrete as shown Clean and replace per item Repair Concrete Structures. See Special Provisions



BILL OF MATERIAL

ITEM	TOTAL QUANT
Epoxy Crack Sealing	3 Lin Ft
Repair Conc. Structures	3 Sq. ft.

EAST ABUTMENT -- REPAIR

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DISTRICT I
 1000 PLAZA DRIVE, SCHAUMBURG, ILL.

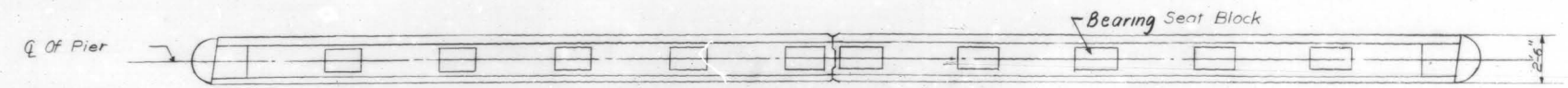
REHABILITATION OF
 OAKTON STREET GRADE SEPARATION OVER
 EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
 CONSULTING ENGINEERS
 1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

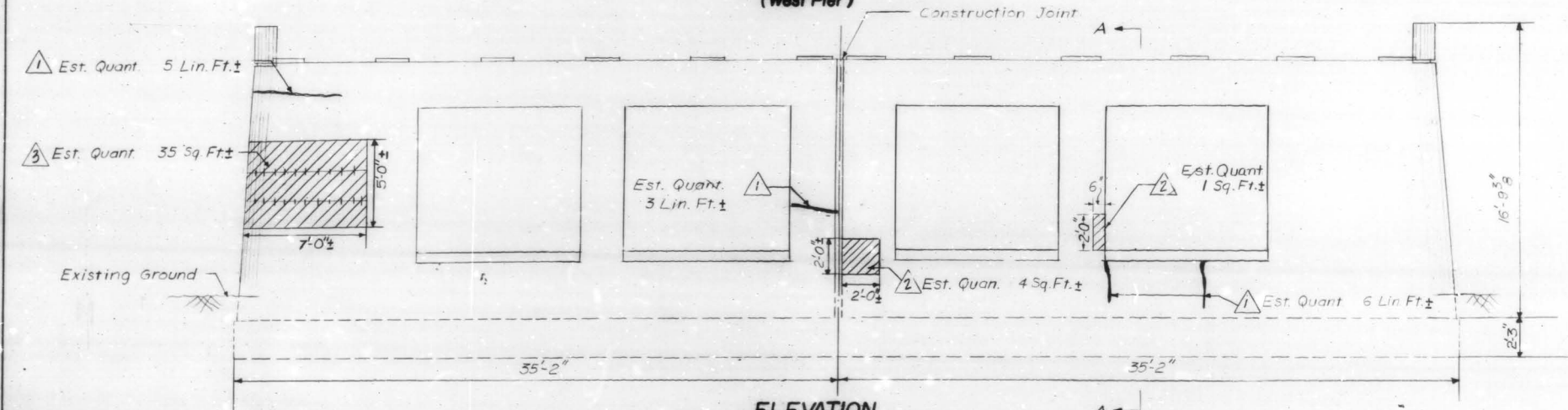
SCALE: NONE DRAWN BY: R. Ruc-11 SHEET No. 0-12
 DATE: 5-7-79 CHECKED BY: Ray Faust

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-DR-78	COOK	50	45
F. H.W.A. REG.		ILLINOIS PROJECT		

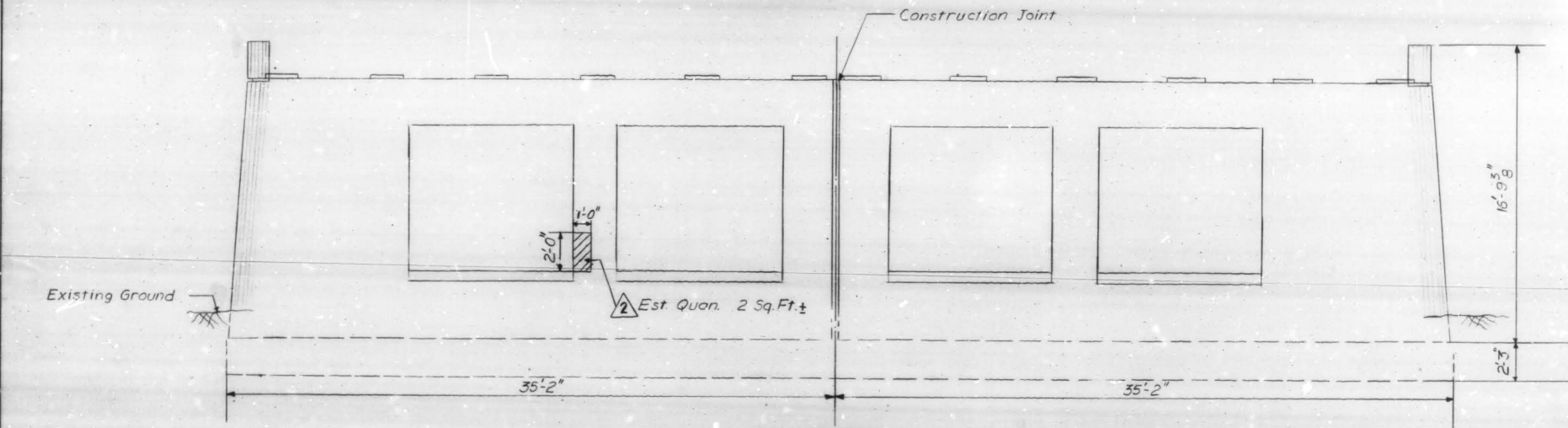
P-91-272-78



TOP PLAN (PIER #1)
(West Pier)



ELEVATION
(Looking West)



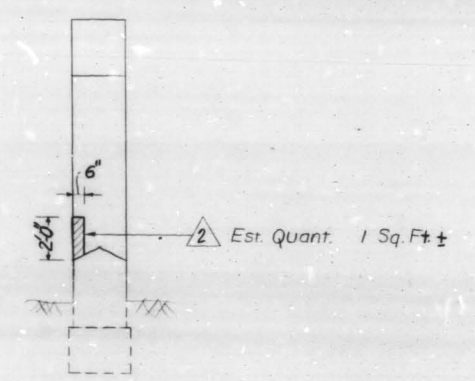
ELEVATION
(Looking East)

CONCRETE REPAIR NOTES

- ▲ CRACK: Crack in concrete to be cleaned and epoxy pressure injected per item "Epoxy Crack Sealing"
- ▲ SPALLING: Spalled areas to be removed, as shown, cleaned and grouted per item "Repair Concrete Structures" See Special Provisions. DEEP SPALLING: EXPOSING REINF. BAR Spalled areas to be removed, and cleaned. Exposed rebar to be sand blasted and area grout per item "Repair Concrete Structures" See Special Provisions.

SEE REINF. REPAIR CRITERIA ON SHEET N-13

Bill Of Material	
Item	Quant.
Repair Concrete Structures	43 Sq. Ft.
Epoxy Crack Sealing	14 Lin. Ft.



SECTION AA

PIER-1 (West Pier) - REPAIR

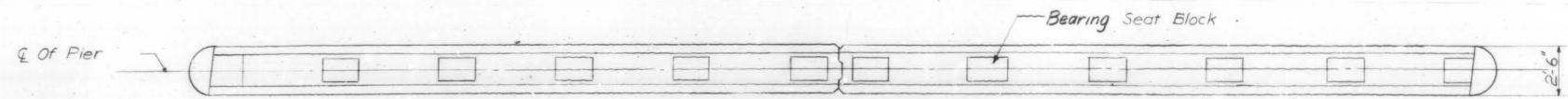
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 FLAZA DRIVE, SCHAUMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

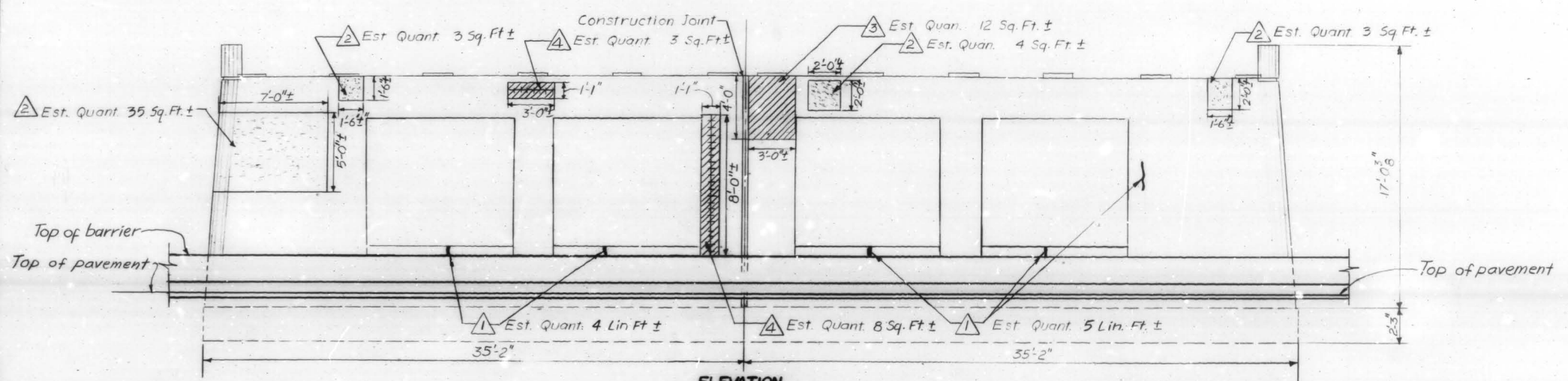
GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE: NONE DRAWN BY: J.R. RUSSELL SHEET No. 0-13
DATE: 5-7-79 CHECKED BY: Raj Prasad

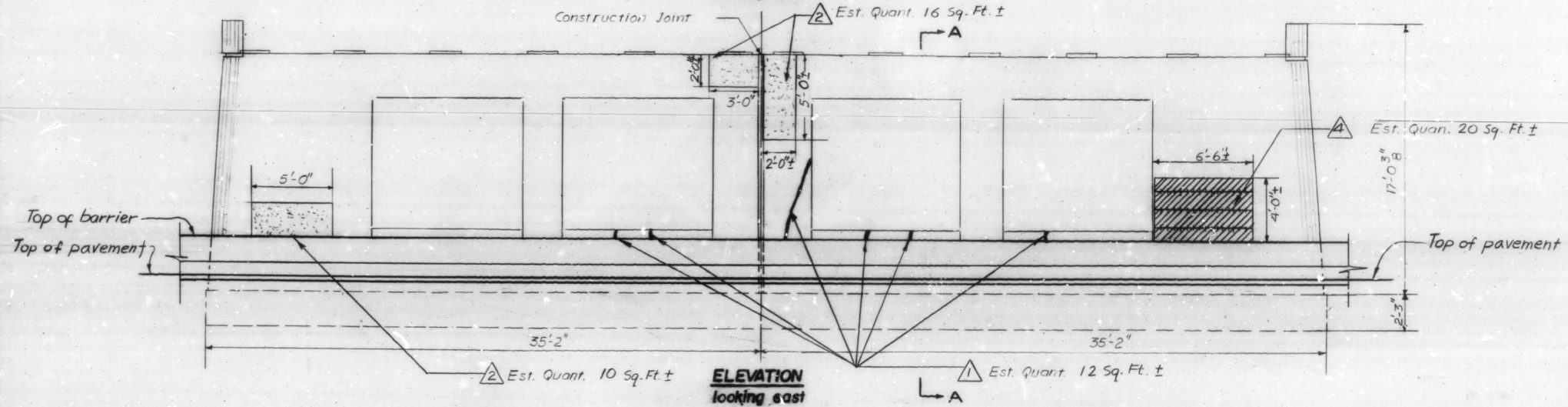
REV. 1.22.84 R.C.S.



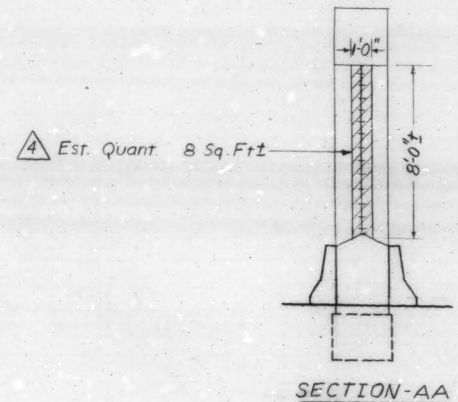
TOP PLAN (Pier 2)
CENTER PIER



ELEVATION
looking west



ELEVATION
looking east



SECTION-AA

Bill Of Material	
Item	Quant.
Repair Concrete Structures	122 Sq.Ft.
Epoxy Crack Sealing	21 LIN.Ft.

CONCRETE REPAIR NOTES

- 1. **CRACK:** Cracks in concrete to be cleaned and epoxy pressure injected per item "Epoxy Crack Sealing".
- 2. **DELAMINATION:** Remove disintegrated concrete as shown. Clean and replace per item "Repair Concrete Structures". See Special Provisions.
- 3. **SPALLING:** Spalled areas to be removed, as shown, cleaned and per item "Repair Concrete Structures". See Special Provisions.
- 4. **DEEP SPALLING: EXPOSING REINF. BARS** Spalled areas to be removed and cleaned. Exposed rebars to be sand blasted area grouted per item "Repair Concrete Structures". See Special Provisions.

SEE REINF. REPAIR CRITERIA ON SHEET N-13

PIER-2 (Center Pier)-REPAIR

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

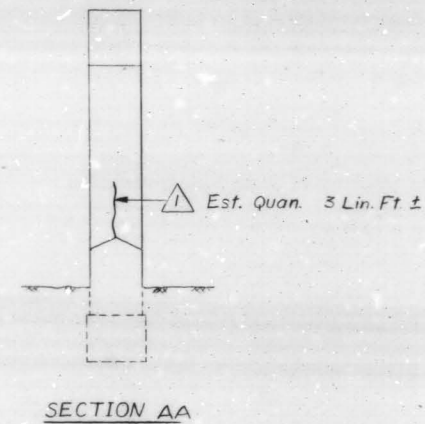
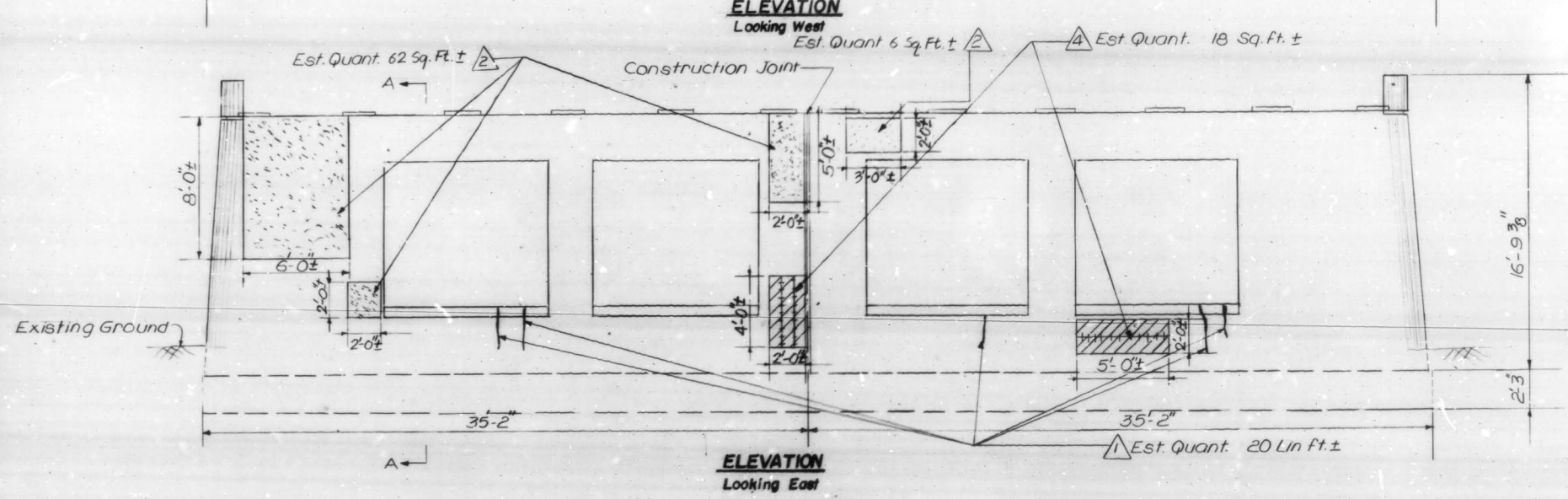
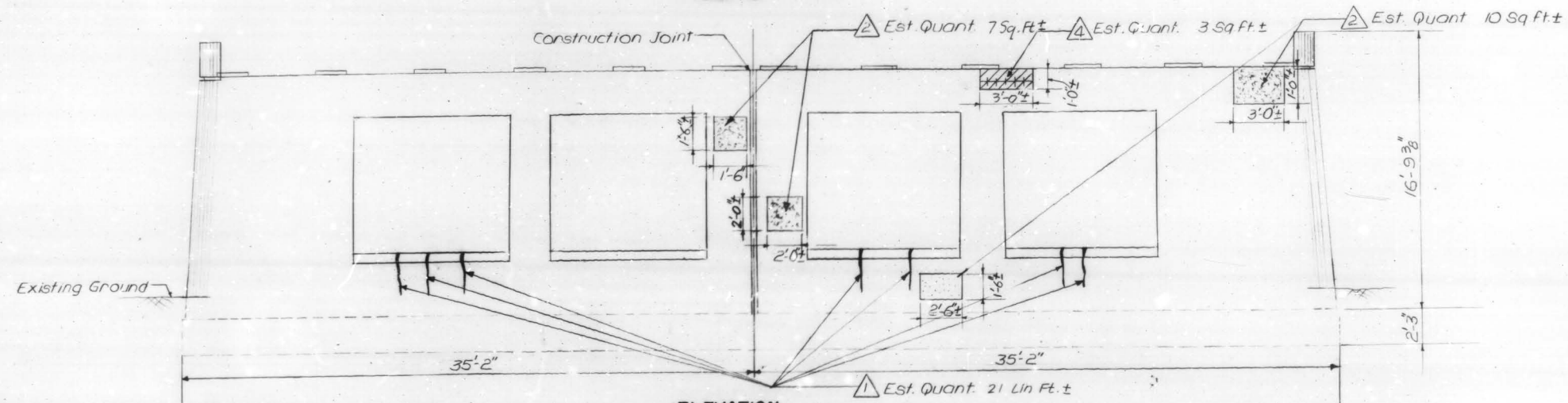
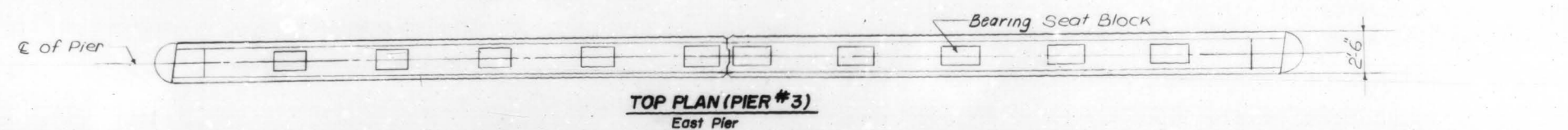
GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

REVISIONS	
DATE	BY
7-15-81	V.T.

SCALE - NONE DRAWN BY - A. RUSSO II SHEET No. 0-14
DATE - 5-7-79 CHECKED BY - RAJ PATAI

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-88-78	COOK	50	47
F.W.A. RES.		ILLINOIS PROJECT		

308 330 P-91-272-78



Bill Of Material		
Item	Quan	
Repair Concrete Structures	106	Sq. Ft.
Epoxy Crack Sealing	44	Lin. Ft.

CONCRETE REPAIR NOTES

- 1. **CRACK:** Cracks in concrete to be cleaned and epoxy pressure injected per item "Epoxy Crack Sealing"
- 2. **DELAMINATION:** Remove disintegrated concrete as shown. Clean and replace per item "Repair Concrete Structures." See Special Provisions.
- 3. **DEEP SPALLING: EXPOSING REINF. BARS** Spalled areas to be removed, and cleaned. Exposed rebar to be sand blasted and area grouted per item "Repair Concrete Structures." See Special Provisions.

SEE REINF. REPAIR CRITERIA ON SHEET N-13

PIER-3 (East Pier) — REPAIR

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHAUMBURG, ILL.

REHABILITATION OF
OAKTON STREET GRADE SEPARATION OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE - NONE DRAWN BY -R. Russell SHEET No. 0-15
DATE - 5-7-79 CHECKED BY -Ray Pochik

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1978-142-BR-78	COOK	50	48
F. HW. A. RES.			ILLINOIS PROJECT	

P-91-272-78

NILES CENTER ROAD - CONSTRUCTION SEQUENCE

STAGE I

1. TRANSITION TRAFFIC TO THE WEST HALF OF THE ROADWAY, ONE LANE IN EACH DIRECTION, WITH BARRICADES AS SHOWN ON TRAFFIC CONTROL STANDARD 2318 AND ADJUST EAST GIRDER BEARINGS AT ABUTS. RELOCATE ACTIVE TRAFFIC LANES (ONE LANE EACH DIRECTION) TO THE EAST HALF OF THE BRIDGE AS SHOWN ON THE TRAFFIC CONTROL PLAN, STAGE I. ADJUST GIRDER BEARINGS AT ABUTMENTS.
2. INSTALL TEMPORARY CONCRETE BARRIERS, PAVEMENT MARKING TAPE AND OTHER CONTROL DEVICES.
3. REMOVE EXISTING BITUMINOUS CONCRETE SURFACE OVERLAY FROM THE WEST HALF OF THE BRIDGE DECK AND APPROACH SLABS AND MAKE THE DECK REPAIRS AS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
4. REMOVE THE LONGITUDINAL JOINT AT THE CENTERLINE OF THE BRIDGE FROM ABUTMENT TO ABUTMENT. INSTALL NEW DIAPHRAGMS AND PLACE THE NEW SLAB BETWEEN THE CENTER BEAMS.
5. REMOVE THE WEST HALF OF THE TRANSVERSE EXPANSION JOINTS AT EACH ABUTMENT FOR THE WEST HALF OF THE ROADWAY AND REPLACE WITH NEW JOINTS.
6. REMOVE THE WEST HALF OF THE TRANSVERSE JOINTS AT THE END OF BOTH APPROACH SLABS AND REPLACE WITH NEW JOINTS.
7. REMOVE AND REPLACE CURBS AND GUTTERS ALONG THE WEST EDGE OF THE ROADWAY AT LOCATIONS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
8. REPAIR THE WEST HALF OF BOTH ABUTMENTS.
9. PLACE WATERPROOFING MEMBRANE SYSTEM ON THE WEST HALF OF THE BRIDGE DECK.
10. PLACE BITUMINOUS CONCRETE BINDER COURSE ON THE WEST HALF OF BOTH APPROACHES AND PLACE BITUMINOUS CONCRETE SURFACE COURSE ON THE WEST HALF OF THE APPROACHES AND BRIDGE DECK.
11. ADJUST BARRICADES AND/OR BARRIERS TO OPEN WEST HALF TO TRAFFIC.

STAGE II

1. RELOCATE ACTIVE TRAFFIC LANES (ONE LANE EACH DIRECTION) TO THE WEST HALF OF THE BRIDGE, AS SHOWN ON THE TRAFFIC CONTROL PLAN, STAGE II. INSTALL TEMPORARY CONCRETE BARRIERS, SIGNS, PAVEMENT MARKING TAPE AND OTHER CONTROL DEVICES.
2. REMOVE EXISTING BITUMINOUS CONCRETE SURFACE OVERLAY FROM THE EAST HALF OF THE BRIDGE DECK AND APPROACH SLABS AND MAKE THE DECK REPAIRS AS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
3. REMOVE THE EAST HALF OF THE TRANSVERSE EXPANSION JOINTS AT EACH ABUTMENT FOR THE EAST HALF OF THE ROADWAY AND REPLACE WITH NEW JOINTS.
4. REMOVE THE EAST HALF OF THE TRANSVERSE JOINTS AT THE END OF BOTH APPROACH SLABS AND REPLACE WITH NEW JOINTS.
5. REMOVE AND REPLACE CURBS AND GUTTERS ALONG THE EAST EDGE OF THE ROADWAY AT LOCATIONS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
6. REPAIR THE EAST HALF OF BOTH ABUTMENTS.
7. PLACE WATERPROOFING MEMBRANE SYSTEM ON THE EAST HALF OF THE BRIDGE DECK.
8. PLACE BITUMINOUS CONCRETE BINDER COURSE ON THE EAST HALF OF BOTH APPROACHES AND PLACE BITUMINOUS CONCRETE SURFACE ON THE EAST HALF OF THE APPROACHES AND BRIDGE DECK.
9. REMOVE ALL TEMPORARY PAVEMENT MARKINGS AND PLACE PERMANENT PAVEMENT MARKINGS. REMOVE ALL BARRICADES, CONSTRUCTION SIGNS AND OTHER CONTROL DEVICES.
10. REPAIR PIERS. THIS WORK ITEM MAY BE SCHEDULED ANY TIME DURING THE CONSTRUCTION WITH THE FOLLOWING RESTRICTIONS:
 - A. THE WORK SHALL NOT EXTEND THE TIME DURING WHICH IT IS NECESSARY TO KEEP LANES OF TRAFFIC CLOSED ON THE BRIDGE.
 - B. ONE LANE CLOSURES OR SHOULDER CLOSURES ON I-94 EDENS WILL NOT BE PERMITTED ON WEEKDAYS BETWEEN THE HOURS OF 5:00 A.M. TO 9:30 A.M. AND 3:30 P.M. TO 7:00 P.M. INBOUND AND 5:30 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:30 P.M. OUTBOUND.
 - C. TWO LANE CLOSURES ARE ONLY ALLOWED BETWEEN THE HOURS OF 11:00 P.M. AND 5:00 A.M. MONDAY THRU FRIDAY.

GROSS POINT ROAD - CONSTRUCTION SEQUENCE

STAGE I

1. TRANSITION TRAFFIC TO THE WEST HALF OF THE ROADWAY, ONE LANE IN EACH DIRECTION, WITH BARRICADES AS SHOWN ON TRAFFIC CONTROL STANDARD 2318 AND ADJUST EAST GIRDER BEARINGS AT ABUTS. RELOCATE ACTIVE TRAFFIC LANES (ONE LANE EACH DIRECTION) TO THE EAST HALF OF THE BRIDGE AS SHOWN ON THE TRAFFIC CONTROL PLAN, STAGE I. ADJUST GIRDER BEARINGS AT ABUTS.
2. INSTALL TEMPORARY CONCRETE BARRIERS, PAVEMENT MARKING TAPE AND OTHER CONTROL DEVICES.
3. REMOVE EXISTING BITUMINOUS CONCRETE SURFACE OVERLAY FROM THE WEST HALF OF THE BRIDGE DECK AND APPROACH SLABS AND MAKE THE DECK REPAIRS AS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
4. REMOVE THE LONGITUDINAL JOINT AT THE CENTERLINE OF THE BRIDGE FROM ABUTMENT TO ABUTMENT. INSTALL NEW DIAPHRAGMS AND PLACE THE NEW SLAB BETWEEN THE CENTER BEAMS.
5. REMOVE THE WEST HALF OF THE TRANSVERSE EXPANSION JOINTS AT EACH ABUTMENT FOR THE WEST HALF OF THE ROADWAY AND REPLACE WITH NEW JOINTS.
6. REMOVE THE WEST HALF OF THE TRANSVERSE JOINTS AT THE END OF BOTH APPROACH SLABS AND REPLACE WITH NEW JOINTS.
7. REMOVE AND REPLACE CURBS AND GUTTERS ALONG THE WEST EDGE OF THE ROADWAY AT LOCATIONS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
8. REPAIR THE WEST HALF OF BOTH ABUTMENTS.
9. PLACE WATERPROOFING MEMBRANE SYSTEM ON THE WEST HALF OF THE BRIDGE DECK.
10. PLACE BITUMINOUS CONCRETE BINDER COURSE ON THE WEST HALF OF BOTH APPROACHES AND PLACE BITUMINOUS CONCRETE SURFACE COURSE ON THE WEST HALF OF THE APPROACHES AND BRIDGE DECK.
11. ADJUST BARRICADES AND/OR BARRIERS TO OPEN WEST HALF TO TRAFFIC.

STAGE II

1. RELOCATE ACTIVE TRAFFIC LANES (ONE LANE EACH DIRECTION) TO THE WEST HALF OF THE BRIDGE, AS SHOWN ON THE TRAFFIC CONTROL PLAN, STAGE II. INSTALL TEMPORARY CONCRETE BARRIERS, SIGNS, PAVEMENT MARKING TAPE AND OTHER CONTROL DEVICES.
2. REMOVE EXISTING BITUMINOUS CONCRETE SURFACE OVERLAY FROM THE EAST HALF OF THE BRIDGE DECK AND APPROACH SLABS AND MAKE THE DECK REPAIRS AS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
3. REMOVE THE EAST HALF OF THE TRANSVERSE EXPANSION JOINTS AT EACH ABUTMENT FOR THE EAST HALF OF THE ROADWAY AND REPLACE WITH NEW JOINTS.
4. REMOVE THE EAST HALF OF THE TRANSVERSE JOINTS AT THE END OF BOTH APPROACH SLABS AND REPLACE WITH NEW JOINTS.
5. REMOVE AND REPLACE CURBS AND GUTTERS ALONG THE EAST EDGE OF THE ROADWAY AT LOCATIONS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
6. REPAIR THE EAST HALF OF BOTH ABUTMENTS.
7. PLACE WATERPROOFING MEMBRANE SYSTEM ON THE EAST HALF OF THE BRIDGE DECK.
8. PLACE BITUMINOUS CONCRETE BINDER COURSE ON THE EAST HALF OF BOTH APPROACHES AND PLACE BITUMINOUS CONCRETE SURFACE ON THE EAST HALF OF THE APPROACHES AND BRIDGE DECK.
9. REMOVE ALL TEMPORARY PAVEMENT MARKINGS AND PLACE PERMANENT PAVEMENT MARKINGS. REMOVE ALL BARRICADES, CONSTRUCTION SIGNS AND OTHER CONTROL DEVICES.
10. REPAIR PIERS. THIS WORK ITEM MAY BE SCHEDULED ANY TIME DURING THE CONSTRUCTION WITH THE FOLLOWING RESTRICTIONS:
 - A. THE WORK SHALL NOT EXTEND THE TIME DURING WHICH IT IS NECESSARY TO KEEP LANES OF TRAFFIC CLOSED ON THE BRIDGE.
 - B. ONE LANE CLOSURES OR SHOULDER CLOSURES ON I-94 EDENS WILL NOT BE PERMITTED ON WEEKDAYS BETWEEN THE HOURS OF 5:00 A.M. TO 9:30 A.M. AND 3:30 P.M. TO 7:00 P.M. INBOUND AND 5:30 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:30 P.M. OUTBOUND.
 - C. TWO LANE CLOSURES ARE ONLY ALLOWED BETWEEN THE HOURS OF 11:00 P.M. AND 5:00 A.M. MONDAY THRU FRIDAY.

OAKTON STREET - CONSTRUCTION SEQUENCE

STAGE I

1. TRANSITION TRAFFIC TO THE NORTH HALF OF THE ROADWAY, ONE LANE IN EACH DIRECTION, WITH BARRICADES AS SHOWN ON TRAFFIC CONTROL STANDARD 2318 AND ADJUST SOUTH GIRDER BEARINGS AT ABUTMENTS. RELOCATE ACTIVE TRAFFIC LANES (ONE LANE EACH DIRECTION) TO THE SOUTH HALF OF THE BRIDGE AS SHOWN ON THE TRAFFIC CONTROL PLAN, STAGE I. ADJUST GIRDER BEARINGS AT ABUTMENTS.
2. INSTALL TEMPORARY CONCRETE BARRIERS, PAVEMENT MARKING TAPE AND OTHER CONTROL DEVICES.
3. MAKE THE DECK REPAIRS ON THE NORTH HALF OF THE BRIDGE DECK AS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
4. REMOVE THE NORTH HALF OF THE TRANSVERSE EXPANSION JOINTS AT EACH ABUTMENT FOR THE NORTH HALF OF THE ROADWAY AND REPLACE WITH NEW JOINTS.
5. REMOVE THE NORTH HALF OF THE TRANSVERSE JOINTS AT THE END OF BOTH APPROACH SLABS AND REPLACE WITH NEW JOINTS.
6. REMOVE AND REPLACE SIDEWALKS AND CURBS AND GUTTERS ALONG THE NORTH EDGE OF THE ROADWAY AT LOCATIONS SHOWN ON THE DRAWINGS AND/OR DIRECTED BY THE ENGINEER.
7. REPAIR THE NORTH HALF OF BOTH ABUTMENTS.
8. PLACE WATERPROOFING MEMBRANE SYSTEM ON THE NORTH HALF OF THE BRIDGE DECK.
9. PLACE BITUMINOUS CONCRETE BINDER COURSE ON THE NORTH HALF OF BOTH APPROACHES AND OTHER AREAS AS SHOWN ON THE DRAWINGS.
10. PLACE BITUMINOUS CONCRETE SURFACE COURSE ON THE NORTH HALF OF THE APPROACH, BRIDGE AND OTHER AREAS AS SHOWN ON THE DRAWINGS.
11. ADJUST BARRICADES AND/OR BARRIERS TO OPEN NORTH HALF TO TRAFFIC.

STAGE II

1. RELOCATE ACTIVE TRAFFIC LANES (ONE LANE EACH DIRECTION) TO THE NORTH HALF OF THE BRIDGE, AS SHOWN ON THE TRAFFIC CONTROL PLAN, STAGE II. INSTALL TEMPORARY CONCRETE BARRIERS, SIGNS, PAVEMENT MARKING TAPE AND OTHER CONTROL DEVICES.
2. MAKE THE DECK REPAIRS ON THE SOUTH HALF OF THE BRIDGE DECK AS SHOWN ON THE DRAWINGS AND/OR AS REQUESTED BY THE ENGINEER.
3. REMOVE THE SOUTH HALF OF THE TRANSVERSE EXPANSION JOINTS AT EACH ABUTMENT FOR THE SOUTH HALF OF THE ROADWAY AND REPLACE WITH NEW JOINTS. PLACE PJTS, FULL WIDTH
4. REMOVE THE SOUTH HALF OF THE TRANSVERSE JOINTS AT THE END OF BOTH APPROACH SLABS AND REPLACE WITH NEW JOINTS.
5. REMOVE AND REPLACE SIDEWALKS, CURBS AND GUTTERS ALONG THE SOUTH EDGE OF THE ROADWAY AT LOCATIONS SHOWN ON THE DRAWINGS AND/OR AS DIRECTED BY THE ENGINEER.
6. REPAIR THE SOUTH HALF OF BOTH ABUTMENTS.
7. PLACE WATERPROOFING MEMBRANE SYSTEM ON THE SOUTH HALF OF THE BRIDGE DECK.
8. PLACE BITUMINOUS CONCRETE BINDER COURSE ON THE SOUTH HALF OF BOTH APPROACHES AND OTHER AREAS AS SHOWN ON THE DRAWINGS.
9. PLACE BITUMINOUS CONCRETE SURFACE COURSE ON THE SOUTH HALF OF THE APPROACHES, BRIDGE DECK AND OTHER AREAS AS SHOWN ON THE DRAWINGS.
10. REMOVE ALL TEMPORARY PAVEMENT MARKINGS AND PLACE PERMANENT PAVEMENT MARKINGS. REMOVE ALL BARRICADES, CONSTRUCTION SIGNS AND CONTROL DEVICES.
11. REPAIR PIERS. THIS WORK ITEM MAY BE SCHEDULED ANY TIME DURING THE CONSTRUCTION WITH THE FOLLOWING RESTRICTIONS:
 - A. THE WORK SHALL NOT EXTEND THE TIME DURING WHICH IT IS NECESSARY TO KEEP LANES OF TRAFFIC CLOSED ON THE BRIDGE.
 - B. ONE LANE CLOSURES OR SHOULDER CLOSURES ON I-94 EDENS WILL NOT BE PERMITTED ON WEEKDAYS BETWEEN THE HOURS OF 5:00 A.M. TO 9:30 A.M. AND 3:30 P.M. TO 7:00 P.M. INBOUND AND 5:30 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:30 P.M. OUTBOUND.
 - C. TWO LANE CLOSURES ARE ONLY ALLOWED BETWEEN THE HOURS OF 11:00 P.M. AND 5:00 A.M. MONDAY THRU FRIDAY.

Note: For Traffic Detour Plan, see Sheets N-4, G-4 and O-4. PJS = Performed Joint Sealer.

SEQUENCE OF CONSTRUCTION STAGES

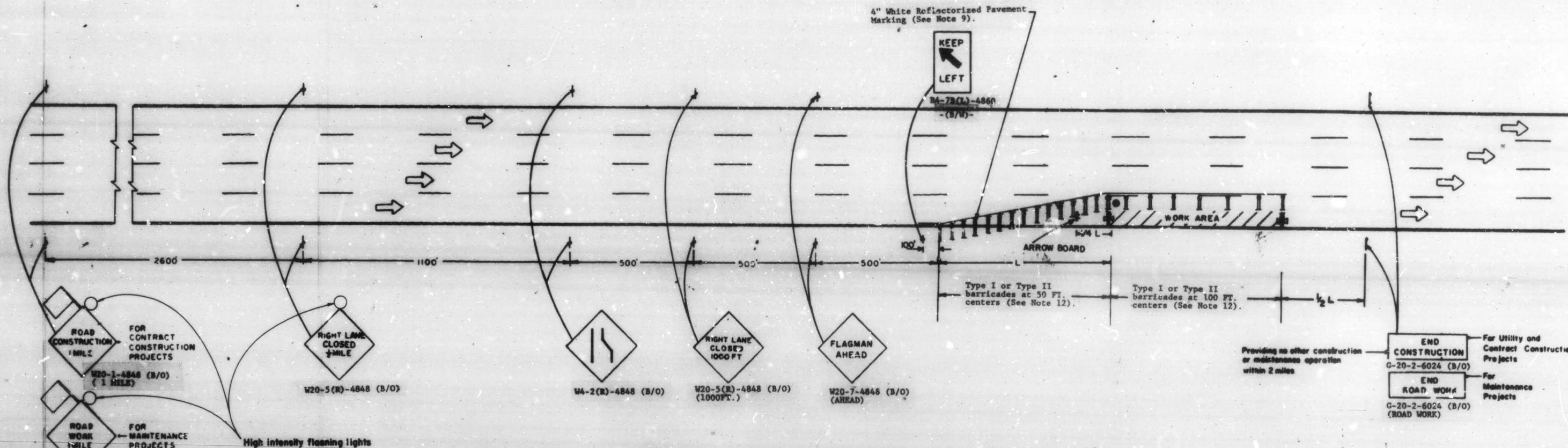
ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS - DISTRICT I
1000 PLAZA DRIVE, SCHLAUBURG, ILL.

REHABILITATION OF
GROSS POINT RD., NILES CENTER RD., & OAKTON ST. OVER
EDENS EXPRESSWAY

GLOBETROTTERS ENG. CORP.
CONSULTING ENGINEERS
1020 SOUTH WABASH AVE. CHICAGO, ILL. 60605

SCALE None DRAWN BY P.G. SHEET No. 48
DATE 7-15-81 CHECKED BY N.A.F.

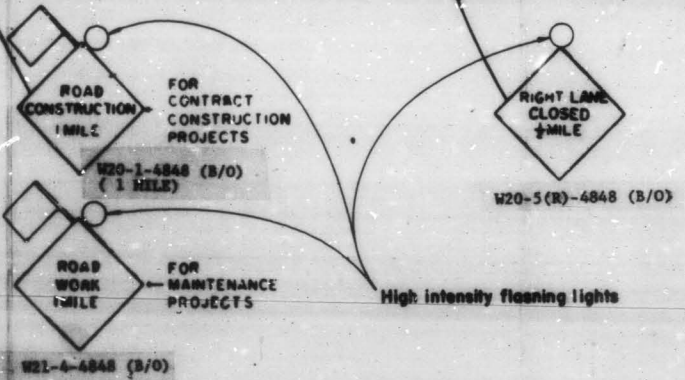


NOTES

1. THE "L" DISTANCE EQUALS THE LANE WIDTH TIMES THE TAPER RATIO.

NORMAL POSTED SPEED (M.P.H.)	TAPER RATIO (FT./FT.)
55	55/1
50	50/1
45 OR LESS	45/1
2. WHEN THERE IS NO WORK BEING PERFORMED THE FLAGMAN AHEAD SIGN(S), FLAGMEN, AND ANY MEN WORKING SIGN(S) WILL NOT BE REQUIRED. A RIGHT LANE CLOSED 500FT. SIGN(S) SHALL BE INSTALLED IN PLACE OF FLAGMAN AHEAD SIGN(S).
3. THIS CASE ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE LEFT LANE. UNDER THESE CONDITIONS LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR RIGHT LANE CLOSED SIGNS, ALSO KEEP RIGHT SIGNS SHALL BE SUBSTITUTED FOR THE KEEP LEFT SIGNS.
4. CONES MAY BE SUBSTITUTED FOR BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 29" IN HEIGHT.
5. STEADY BURNING LIGHTS USED ON TYPE I OR TYPE II BARRICADES WILL NOT BE REQUIRED FOR DAY OPERATIONS.
6. THE ENGINEER MAY REQUIRE STEEL DRUMS, EITHER 55 GALLON OR 30 GALLON, TO BE USED TO SUPPLEMENT THE BARRICADES IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. HIGH INTENSITY FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE 1 MILE AND 1/2 MILE SIGNS.
9. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
10. WHEN A RAMP INTERSECTS THE HIGHWAY WORK AREA, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AS DIRECTED BY THE ENGINEER.
11. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS. THE INTERNAL PLACEMENT OF THE FLAGMEN MAY BE VARIED FROM THAT SHOWN. THE FLAGMEN SHALL BE STATIONED APPROXIMATELY 100' IN ADVANCE OF EACH WORK PARTY.
12. IF TYPE I BARRICADES ARE USED, THE TOP REFLECTORIZED RAIL SHALL BE A MINIMUM OF 12" HIGH BY 24" WIDE.
13. ALL VEHICLES, EQUIPMENT, MEN AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

14. THE DEPARTMENT, THROUGH THE DISTRICT TRAFFIC OFFICE, HAS THE RIGHT TO INSPECT AND/OR SUPERVISE THE INSTALLATION OF ALL SIGNS AND BARRICADE PLACEMENT.
15. THE CONTRACTOR SHALL AT NO TIME ALLOW HIS EMPLOYEES' VEHICLES TO BE PARKED ON THE SHOULDER OR THE TRAVELED WAY.
16. THE FLASHING ARROW SHALL MEET THE LATEST REQUIREMENTS OF THE DEPARTMENT AND SHALL BE LOCATED IN A "HEAD ON" POSITION WITHIN THE LANE CLOSURE TAPER.
17. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



SYMBOLS

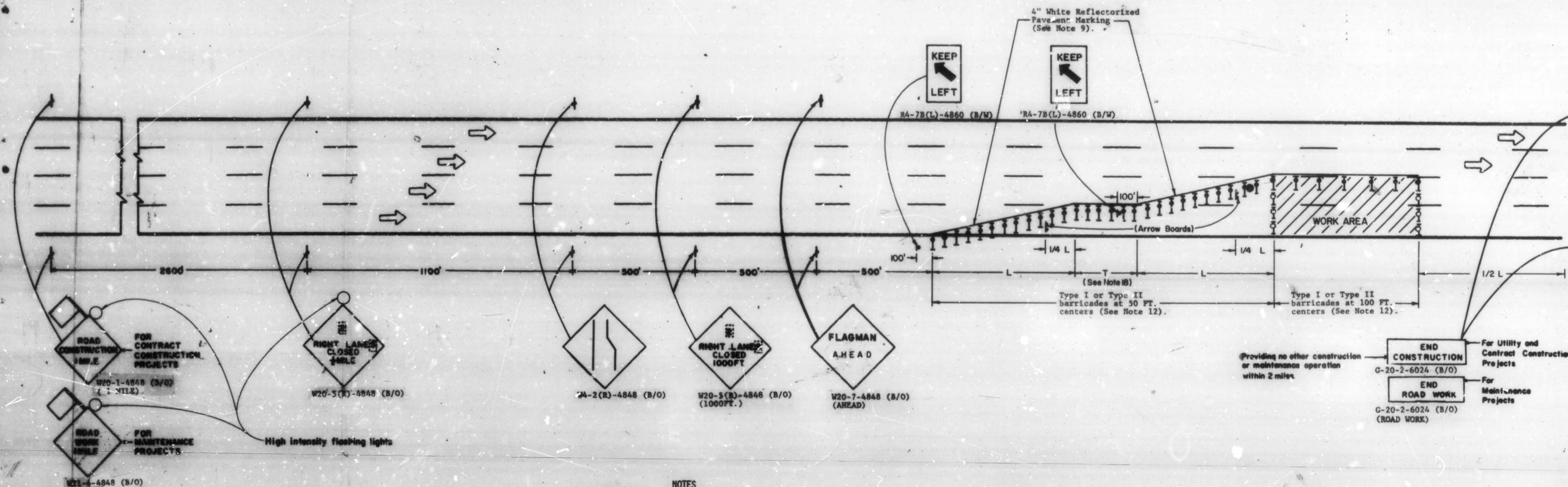
- TYPE I OR TYPE II BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
- TYPE I OR TYPE II BARRICADES WITH FLASHING LIGHT
- WORK AREA
- SIGN WITH 18" BY 18" (MINIMUM) ORANGE FLAG ATTACHED
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGMAN

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
APPROVED 3/23/78
John P. Ziegler
DISTRICT ENGINEER

REVISIONS	
NAME	DATE
K.A.J.	2-20-79
T.J.B.	1-11-78
K.W.M.	3/79
M.W.	2/80

SHEET 49
DETAILS and PLACEMENT of STANDARD BARRICADE and WARNING SIGNS for ONE LANE CLOSURE
SCALE: HORIZ. 1"=75'
VERT. 1"=75'
DRAWN BY JJC
CHECKED BY P.B.D.

PLAN	SECTION	PRESET	TOTAL SHEETS	SHEET NO.
94	102-142-82	25	50	50
STA.	TO STA.			
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



SYMBOLS

- TYPE I OR TYPE II BARRICADES WITH NON-DIRECTIONAL STEADY BURNING LIGHTS
- TYPE I OR TYPE II BARRICADES WITH FLASHING LIGHT
- WORK AREA
- SIGN WITH 18" BY 18" (MINIMUM) ORANGE FLAG ATTACHED
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGMAN

NOTES

1. THE "L" DISTANCE EQUALS THE LANE WIDTH TIMES THE TAPER RATIO.

NORMAL POSTED SPEED (M.P.H.)	TAPER RATIO (FT./FT.)
55	55/1
50	50/1
45 OR LESS	45/1
2. WHEN THERE IS NO WORK BEING PERFORMED THE FLAGMEN AHEAD SIGN(S), FLAGMEN, AND ANY MEN WORKING SIGN(S) WILL NOT BE REQUIRED. A RIGHT LANE CLOSED 500 FT. SIGN(S) SHALL BE INSTALLED IN PLACE OF FLAGMAN AHEAD SIGN(S).
3. THIS CASE ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE LEFT LANE. UNDER THESE CONDITIONS LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR RIGHT LANE CLOSED SIGNS, ALSO KEEP RIGHT SIGNS SHALL BE SUBSTITUTED FOR THE KEEP LEFT SIGNS.
4. CONES MAY BE SUBSTITUTED FOR BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
5. STEADY BURNING LIGHTS USED ON TYPE I OR TYPE II BARRICADES WILL NOT BE REQUIRED FOR DAY OPERATIONS.
6. THE ENGINEER MAY REQUIRE STEEL DRUMS, EITHER 55 GALLON OR 30 GALLON, TO BE USED TO SUPPLEMENT THE BARRICADES IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. HIGH INTENSITY FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE 1 MILE AND 1/2 MILE SIGNS.
9. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
10. WHEN A RAMP INTERSECTS THE HIGHWAY WORK AREA, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AS DIRECTED BY THE ENGINEER.
11. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS. THE INTERNAL PLACEMENT OF THE FLAGMEN MAY BE VARIED FROM THAT SHOWN. THE FLAGMEN SHALL BE STATIONED APPROXIMATELY 100' IN ADVANCE OF EACH WORK PARTY.
12. IF TYPE I BARRICADES ARE USED, THE TOP REFLECTORIZED RAIL SHALL BE A MINIMUM OF 12" HIGH BY 24" WIDE.
13. ALL VEHICLES, EQUIPMENT, MEN AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
14. THE DEPARTMENT, THROUGH THE DISTRICT TRAFFIC OFFICE, HAS THE RIGHT TO INSPECT AND/OR SUPERVISE THE INSTALLATION OF ALL SIGNS AND BARRICADE PLACEMENT.
15. THE CONTRACTOR SHALL AT NO TIME ALLOW HIS EMPLOYEES' VEHICLES TO BE PARKED ON THE SHOULDER OR THE TRAVELED WAY.
16. THE FLASHING ARROW SHALL MEET THE LATEST REQUIREMENTS OF THE DEPARTMENT AND SHALL BE LOCATED IN A "HEAD ON" POSITION WITHIN THE LANE CLOSURE TAPER.
17. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
18. THE TANGENT SECTION SHALL BE OMITTED WHEN CLOSURE TIME IS 4 DAYS OR LESS. TANGENT LENGTH "T" SHALL BE EQUAL TO "L" FOR CLOSURE TIMES GREATER THAN 4 DAYS BUT LESS THAN 14 DAYS. TANGENT LENGTH "T" SHALL BE EQUAL TO "2L" FOR CLOSURE TIMES OF 14 DAYS OR GREATER.

ILLINOIS DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
DISTRICT I

APPROVED *[Signature]*
DISTRICT ENGINEER

SHEET 50

**DETAILS and PLACEMENT
of STANDARD BARRICADE
and WARNING SIGNS for
TWO LANE CLOSURE**

REVISIONS	
NAME	DATE
K.A.J.	9-5-76
D.A.T.	2-5-77
V.W.H.	3/78
M.W.	3/80

SCALE: NONE
DATE: 1-10-79

DRAWN BY J.J.E.
CHECKED BY R.R.A.