

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY
F.A.I. ROUTE 94 EDENS EXPRESSWAY
SECTION 1977-083-R
PROJECT I-94-2(14)39
EXPRESSWAY RECONSTRUCTION
COOK COUNTY
C-91-098-77

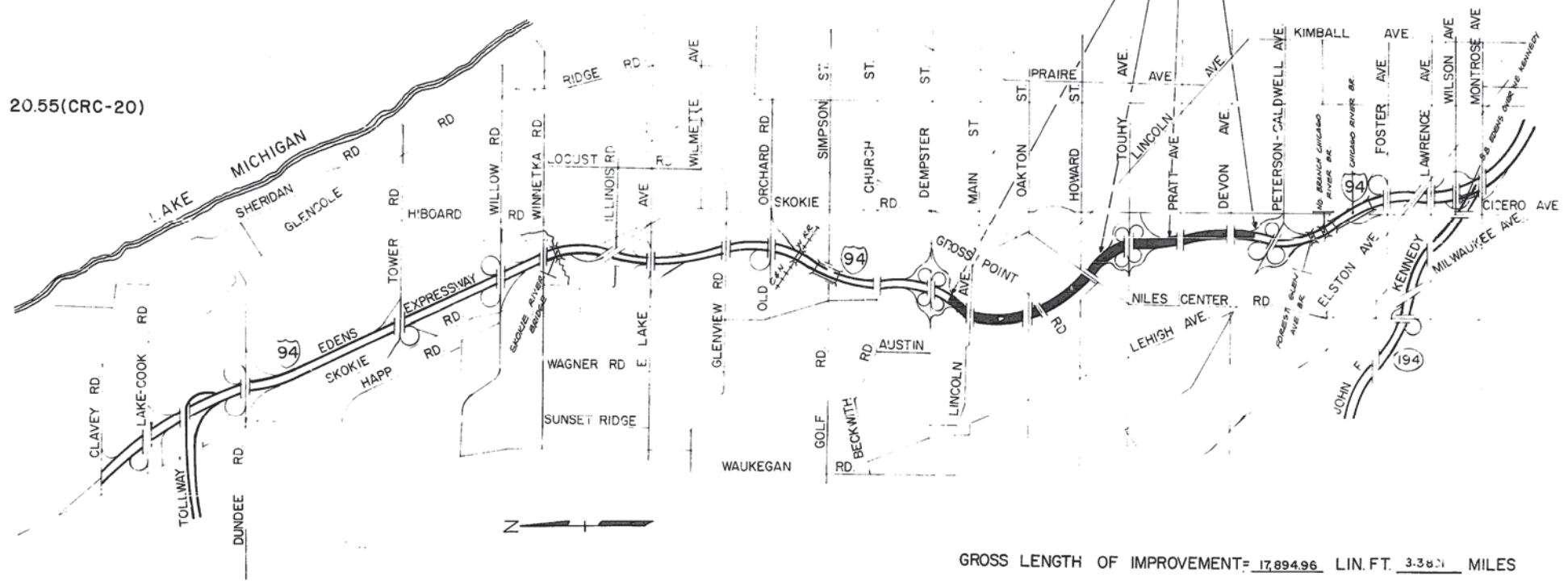
FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 94	1977-083-R	COOK	745	1
FED. ROAD DIST. NO. 41, ILL. ROAD DIST. NO. 1-94-2(14)39				

P-91-424-77



BEGIN PROJECT I-94-2(14)39
BEGINNING OF IMPROVEMENT (SECTION 1977-083-R)
STATION 15+00 @ EDENS EXPRESSWAY
STATION EQUATION: 63+00 BACK
62+00 FORWARD
STATION EQUATION 95+84.01 BACK
95+89.05 FORWARD
END OF IMPROVEMENT (SECTION 1977-083-R)
STATION 193+00 @ EDENS EXPRESSWAY
END PROJECT I-94-2(14)39

DESIGN DESIGNATION:
 12,864(1995) TRUNK 20.55(CRC-20)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: _____

EXAMINED: 8/28/78

PASSED: 9/6/78

APPROVED: [Signature]

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____

DIVISION ADMINISTRATOR

GROSS LENGTH OF IMPROVEMENT = 17,894.96 LIN. FT. 3.3851 MILES
 NET LENGTH OF PROJECT = 17,894.96 LIN. FT. 3.3851 MILES

Kam Gupta (Sahamans)

INDEX OF SHEETS

I. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1083-12	COOK	245	2
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

<p>1 TITLE SHEET</p> <p>2 INDEX OF SHEETS</p> <p>3-4 GENERAL NOTES</p> <p>5 STATE STANDARDS AND SYMBOLS</p> <p>6 CRITICAL ITEM SCHEDULES "A"</p> <p>6A CRITICAL ITEM SCHEDULES "A"</p> <p>7-13 SUMMARY OF QUANTITIES</p> <p>14-15 BENCH MARKS</p> <p>16-17 TYPICAL CROSS-SECTION (PAVEMENT RECONSTRUCTION)</p> <p>17A INTERIM DRAINAGE (TYPICAL SECTION)</p> <p>18 RAMP DETAILS (TYPICAL)</p> <p>19 STAGING</p> <p>20-39 EXISTING AND PROPOSED PLANS</p> <p>39A-39B PROPOSED BRIDGE CLEARANCES</p> <p>40-42 TEMPORARY CROSS-OVER DETAILS (TYPICAL)</p> <p>43 TEMPORARY CROSS-OVER STAGING</p> <p>44 PROPOSED TEMPORARY RAMP CROSS-OVER AT TOUHY AVE.</p> <p>45-46 PROFILES FOR TEMPORARY RAMP CROSS-OVERS AT TOUHY AVE.</p> <p>46A-46I INTERIM DRAINAGE</p> <p>47-58 PROFILE ALONG SOUTH BOUND EDENS.</p> <p>59-70 PROFILE ALONG NORTH BOUND EDENS.</p> <p>71-74 PROPOSED RAMP PAVEMENT ELEVATIONS (TOUHY AVE.)</p> <p>75 CONCRETE BARRIER TRANSITION & GENERAL DETAILS.</p> <p>76-83 PLAN & CONCRETE BARRIER TAPER, GUARD RAIL LOCATIONS AND DETAILS</p> <p>84 DETAIL OF CONCRETE BARRIER TYPE 4A</p> <p>85 EXISTING CATCH BASIN TO BE FILLED MAINTAINING FLOW (DETAIL "B")</p> <p>86 MANHOLE TO BE ADJUSTED (SPECIAL.) DETAIL "C"</p> <p>87 EXISTING CATCH BASIN TO BE FILLED (SPECIAL) DETAIL "D"</p> <p>PROPOSED CATCH BASIN TYPE A, 4 FT. DIA. WITH FLAT SLAB TOP AND FRAME AND GRATE TYPE "V" AND TYPE "VB". DETAILS "E", "E-2", "E-3"</p> <p>PROPOSED CATCH BASIN TYPE D (SEE NOTE FOR SYMBOLS 1 AND E-3)</p> <p>88 PIPE UNDERDRAIN OUTLET TO PROPOSED LATERAL STORM SEWER (DETAIL "F")</p> <p>88A CATCH BASIN TYPE D WITH PRECAST REINFORCED CONC. SLAB</p> <p>89 PROPOSED ACCESS MANHOLE TYPE 1 (DETAIL Y)</p> <p>90 PROPOSED ACCESS MANHOLE TYPE 2 (DETAIL Y-1)</p> <p>91 DRAINAGE STRUCTURE S-1</p> <p>91A ALTERNATIVE DESIGN FOR PRECAST DRAINAGE STRUCTURE S-1 & S-2</p> <p>92 SCHEDULE OF REINFORCEMENT BARS AND CLASS X CONCRETE QUANTITIES FOR DRAINAGE STRUCTURES S-1 & S-2.</p> <p>93 DETAIL OF STORM SEWER CONNECTION TO SEWER.</p> <p>94 SPECIAL DETAILS FOR CONCRETE BARRIER AND BARRIER DELINEATOR</p> <p>95 SPECIAL DETAILS MOVABLE DOUBLE CONCRETE BARRIER.</p> <p>96 REINFORCEMENT FOR CONTINUOUSLY REINFORCED P.C.C. PAVEMENT.</p> <p>97 36 FT. CONTINUOUSLY REINFORCED P.C.C. PAVEMENT.</p> <p>98 PAVEMENT JOINTS</p> <p>99 SPECIAL DETAILS - FRAME AND GRATE TYPE "V" AND TYPE "VB"</p> <p>100 EXISTING DRAINAGE STRUCTURES TO BE ADJUSTED WITH STEEL PLATE.</p> <p>101 DETAILS OF CHAIN LINK FENCE</p> <p>102 DETAILS AND PLACEMENT OF STANDARD BARRICADES AND WARNING SIGNS FOR ONE LANE CLOSURE</p> <p>103 DETAILS AND PLACEMENT OF STANDARD BARRICADES AND WARNING SIGNS FOR TWO LANE CLOSURE</p> <p>103A CASE U-2</p> <p>104 ENTRANCE RAMP CLOSURE DETAIL</p>	<p>105 TEMPORARY TRAFFIC CONTROL AND PROTECTION ONE LANE CLOSURE AT RAMPS</p> <p>105A CENTER LANE CLOSURE</p> <p>106 TYPICAL TRAFFIC CONTROL AND PROTECTION AT TEMPORARY RAMP LOCATIONS</p> <p>107 TEMPORARY SIGNING DETAILS BRIDGE MOUNT</p> <p>108 TRAFFIC CONTROL AND PROTECTION IMPACT ATTENUATOR SYSTEM</p> <p>109 MOVING OPERATIONS UTILIZING FLASHING ARROWS</p> <p>110.A.B SIGNS FOR RADIO STATION</p> <p>111.A TYPICAL PAVEMENT MARKINGS EDENS EXPRESSWAY STAGE IV & V</p> <p>112 TYPICAL PAVEMENT MARKINGS EDENS EXPRESSWAY STAGE VI</p> <p>112.A TYPICAL PAVEMENT MARKINGS EDENS EXPRESSWAY STAGE VI A</p> <p>113-115 RELOCATION OF TEMPORARY TRAFFIC SIGNS FOR STAGES IV AND VI</p> <p>115A PAVEMENT MARKINGS EDENS EXPWY STAGE VII</p> <p>116 TYPICAL PAVEMENT MARKINGS EDENS EXPRESSWAY COMPLETION</p> <p>117 FREEWAY PAVEMENT MARKING DETAILS</p> <p>118-119.A.B DEVON AVE. SEWER PLAN (EDENS OVER)</p> <p>120 TABULATION OF QUANTITIES (SIGNING)</p> <p>121 I-94 EDENS EXPRESSWAY SIGN LIGHTING</p> <p>122-124 PLANS FOR SIGNING</p> <p>125 OVERHEAD STRUCTURES</p> <p>126 OVERHEAD SIGN STRUCTURES GENERAL PLAN AND ELEVATION ALUMINUM TRUSS AND STEEL SUPPORTS</p> <p>127-128 OVERHEAD SIGN STRUCTURE ALUMINUM WALKWAY DETAILS</p> <p>129 OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS</p> <p>130-134 OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR ALUMINUM TRUSS</p> <p>135 OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS</p> <p>136-138 OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS</p> <p>139 GROUND MOUNT STRUCTURES</p> <p>140-141 FLOURESCENT SIGN LIGHTING EQUIPMENT ELECTRICAL DETAILS</p> <p>142 TYPICAL ELECTRICAL DETAILS SYMBOLS AND NOTES</p> <p>143 ALUMINUM LIGHT STANDARDS</p> <p>144 DOUBLE CONCRETE BARRIER FOUNDATION FOR 47.5 FT. TWIN ARM LIGHT STANDARD</p> <p>145 CONDUIT JUNCTION BOX IN CONCRETE BARRIER DETAIL</p> <p>146 FOUNDATION FOR 50 FOOT LIGHT STANDARD WITH SINGLE AND TWIN ARMS</p> <p>147-157 LIGHTING PLANS</p> <p>158-159 WIRING DIAGRAM</p> <p>159A-163 EXISTING LIGHTING STANDARD TO REMAIN AND TO BE RELOCATED</p> <p>164 DEVON AVE. INSTALLATION (SURVEILLANCE)</p> <p>165 PRATT AVE. INSTALLATION (SURVEILLANCE)</p> <p>166-167 TOUHY AVE. INSTALLATION (SURVEILLANCE)</p> <p>168 NILES CENTER ROAD INSTALLATION (SURVEILLANCE)</p> <p>169 OAKTON STREET INSTALLATION (SURVEILLANCE)</p> <p>170 LINCOLN AVE. INSTALLATION (SURVEILLANCE)</p> <p>171-172 EDENS EXPRESSWAY COMMUNICATION LINK INTERVALS</p>	<p>173 DETAILS - BARRIER WALL JUNCTION BOX TYPE "J" FOUNDATION DUCT ACCESS</p> <p>174 LOOP, CONDUIT AND DUCT INSTALLATION DETAILS.</p> <p>175 CABINET AND FLASHER DETAIL SHEET</p> <p>176 INDUCTION LOOP TYPICALS</p> <p>177 PULL POINT DETAIL IN ASPHALT</p> <p>178 TYPICAL RAMP METERING INSTALLATION TYPE I & II</p> <p>179 TYPICAL JUNCTION BOX & PVC DUCT PLACEMENT</p> <p>180-245 CROSS-SECTIONS</p>
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REVISIONS	
NAME	DATE
RG M	4/6/78

ILLINOIS DIVISION OF HIGHWAYS

EDENS EXPRESSWAY

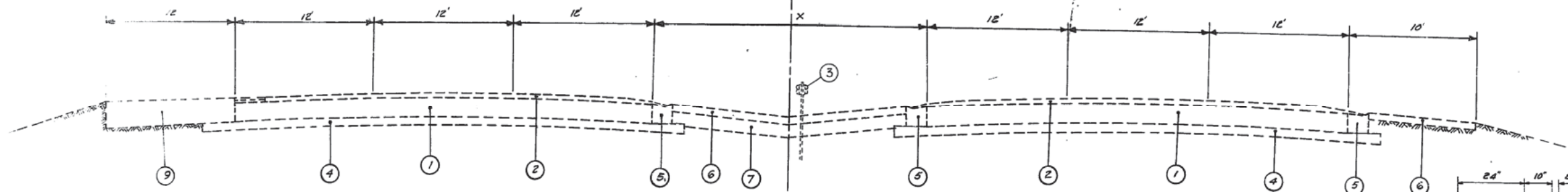
INDEX OF SHEETS

SCALE: VERT. _____	DRAWN BY _____
HORIZ. _____	CHECKED BY _____
DATE _____	

EDENS EXPRESSWAY

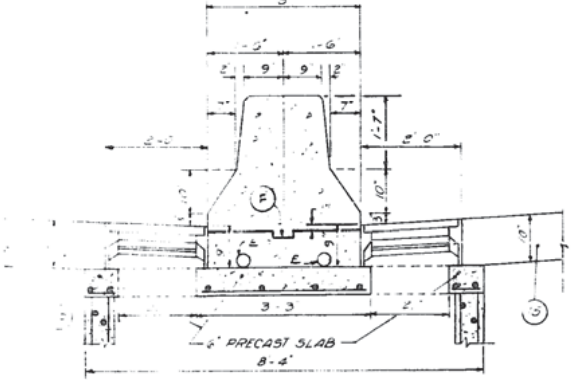
SOUTH BOUND

NORTH BOUND

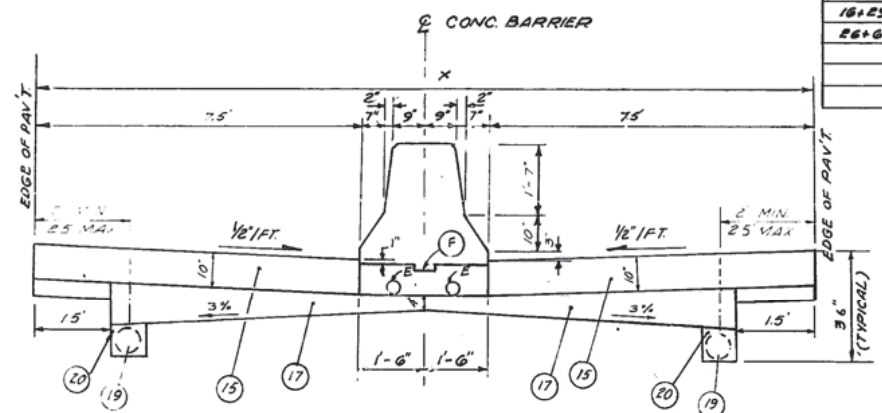


TYPICAL EXISTING CROSS SECTION

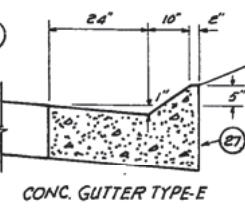
MEDIAN WIDTHS	
LOCATION	WIDTH (X)
15+00 N TO 16+29	12'
16+29 TO 26+67	18' TO 25'
26+67 TO 193+00 N	25'



DRAINAGE STRUCTURE WITH FRAME & GRATE TYPE "V", DETAIL S-1

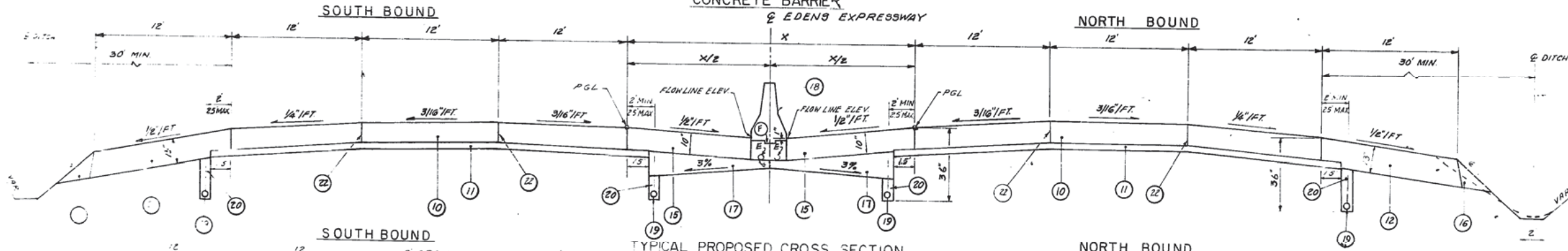


DRAINAGE STRUCTURE WITH FRAME & GRATE TYPE "VB", DETAIL S-2

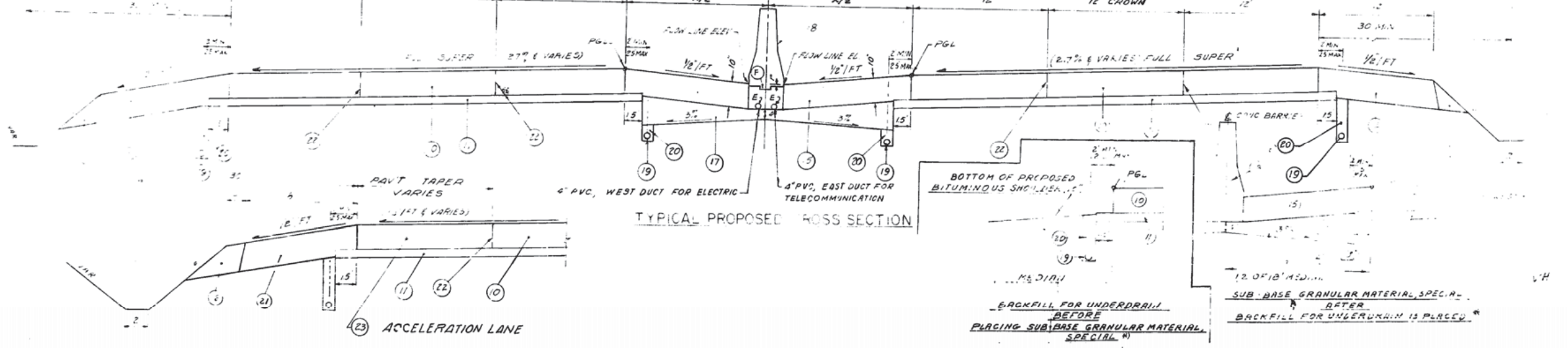


CONC. GUTTER TYPE-E

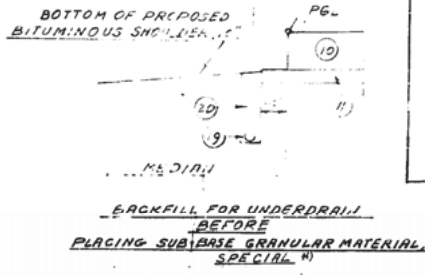
- 1 P.C. CONCRETE PAVEMENT (10)
- 2 BITUMINOUS CONCRETE SURFACE COURSE (1 1/2" BINDER & 1 1/2" SURF. CSE. @ 2)
- 3 STEEL PLATE BEAM GUARD RAIL, SINGLE AND DOUBLE RAIL, TO BE REMOVED
- 4 SUB-BASE GRANULAR MATERIAL, TYPE A (E)
- 5 CONCRETE GUTTER 21" TYPE
- 6 BITUMINOUS CONC SHOULDER (2 1/2")
- 7 GRAVEL OR CRUSHED STONE SHOULDER (E)
- 8 BITUMINOUS BASE COURSE (1 1/2") (ALL TO BE REMOVED)
- 9 P.S.L. - PROPOSED GRADE LINE
- 10 CONTINUOUS WELD P.C.C. PAVEMENT (10)
- 11 STABILIZED SUB-BASE (14)
- 12 BITUMINOUS BASE COURSE (1 1/2") (NORTHBOUND)
- 13 4" Ø PVC DUCT (SEE TYPICAL CROSS SECTION BELOW FOR DUCT LOCATION ON THIS SHEET & LIGHTING PLAN)
- 14 OPTIONAL CONSTRUCTION JOINT & KEYWAY E.L.
- 15 BITUMINOUS SHOULDER (10)
- 16 AGGREGATE SHOULDER TYPE-B
- 17 SUB-BASE GRANULAR MATERIAL, TYPE A (E)
- 18 CONCRETE BARRIER
- 19 PIPE UNDERDRAIN (14)
- 20 BALL FILL FOR UNDERDRAIN (14)
- 21 STABILIZED SHOULDER (14)
- 22 JOINT
- 23 P.C.C. PAVEMENT (10)
- 24 CONC. GUTTER TYPE-E (SEE PLANS FOR LOCATION)
- 25 EDGE OF SHOULDER



TYPICAL PROPOSED CROSS SECTION



TYPICAL PROPOSED CROSS SECTION

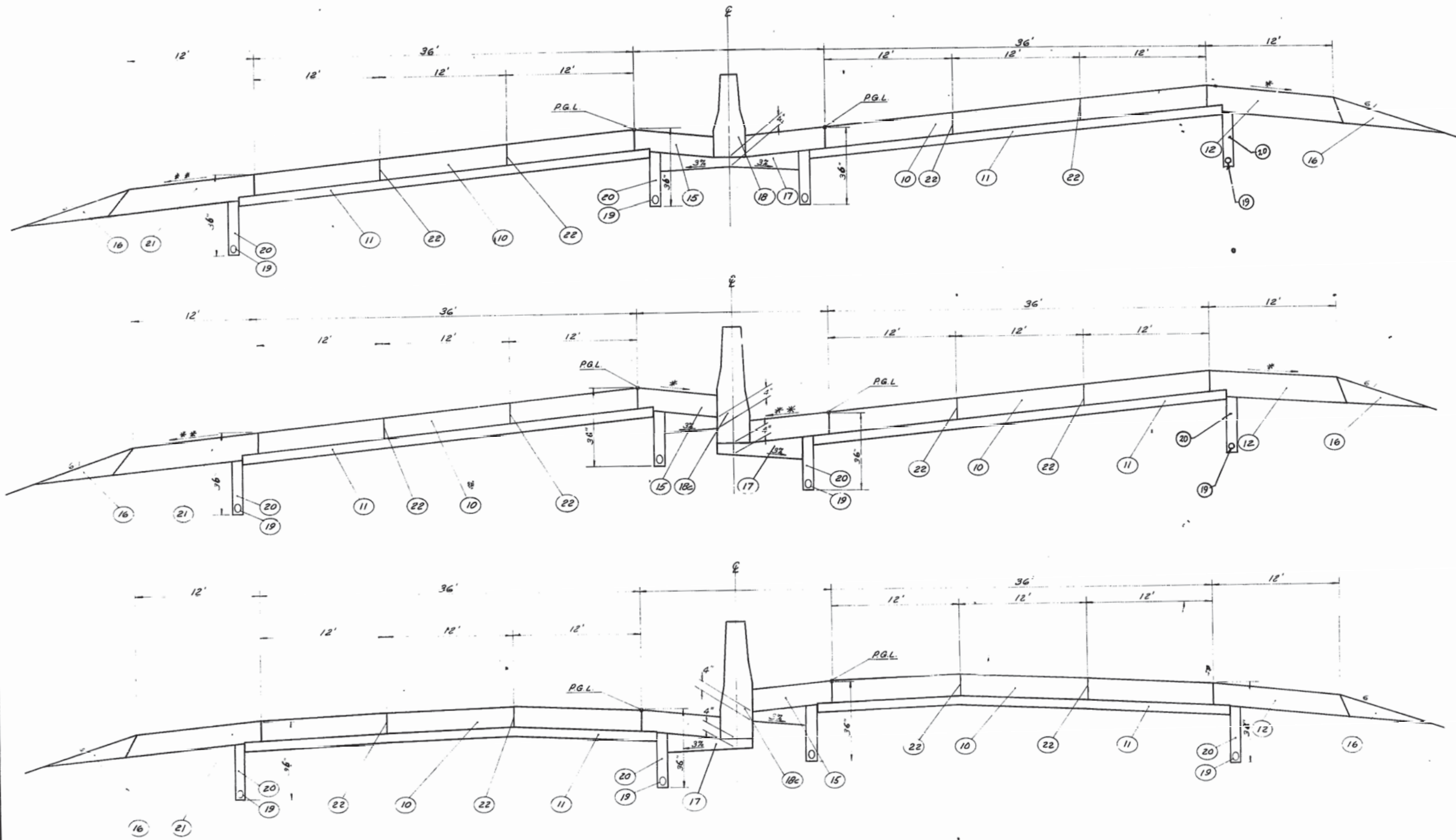


BACKFILL FOR UNDERDRAIN BEFORE PLACING SUB-BASE GRANULAR MATERIAL, SPECIAL (M)

12.0' OF 18" MED. SUB-BASE GRANULAR MATERIAL, SPEC. N-1 AFTER BACKFILL FOR UNDERDRAIN IS PLACED

ACCELERATION LANE

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94-07-083-R	COOK	245	17
STA	TO STA		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	



LEGEND

- ⑩ Continuously Reinforced P.C.C. Pavement (10")
 - ⑪ Stabilized Sub-Base (4")
 - ⑫ Bituminous Base Course (1 3/4" Northbound)
 - ⑬ Bituminous Shoulder (10")
 - ⑭ Aggregate Shoulder, Type B
 - ⑮ Concrete Barrier Wall, Type 1
 - ⑯ Concrete Barrier Wall, Type 2 (not shown)
 - ⑰ Concrete Barrier Wall, Type 3
 - ⑱ Pipe Underdrain (4")
 - ⑲ Sub-base for Pipe Underdrain
 - ⑳ Bituminous Shoulder (1 3/4" Southbound)
 - ㉑ Construction Joint
- * When the super-elevation rate of the pavement is between 0.00 ft/ft and 0.03 ft/ft, the shoulder shall be sloped at 0.04 ft/ft. When the super-elevation rate of the pavement exceeds 0.03 ft/ft, the shoulder shall be sloped so that the algebraic difference between pavement and shoulder will not be greater than 0.07 ft/ft.
- ** Bituminous shoulder slope shall be the same as the super-elevation rate but not less than 1/2" ft.
- See additional Typical Section sheets for details not shown.
- ⑰ Sub-Base Granular Material, Special

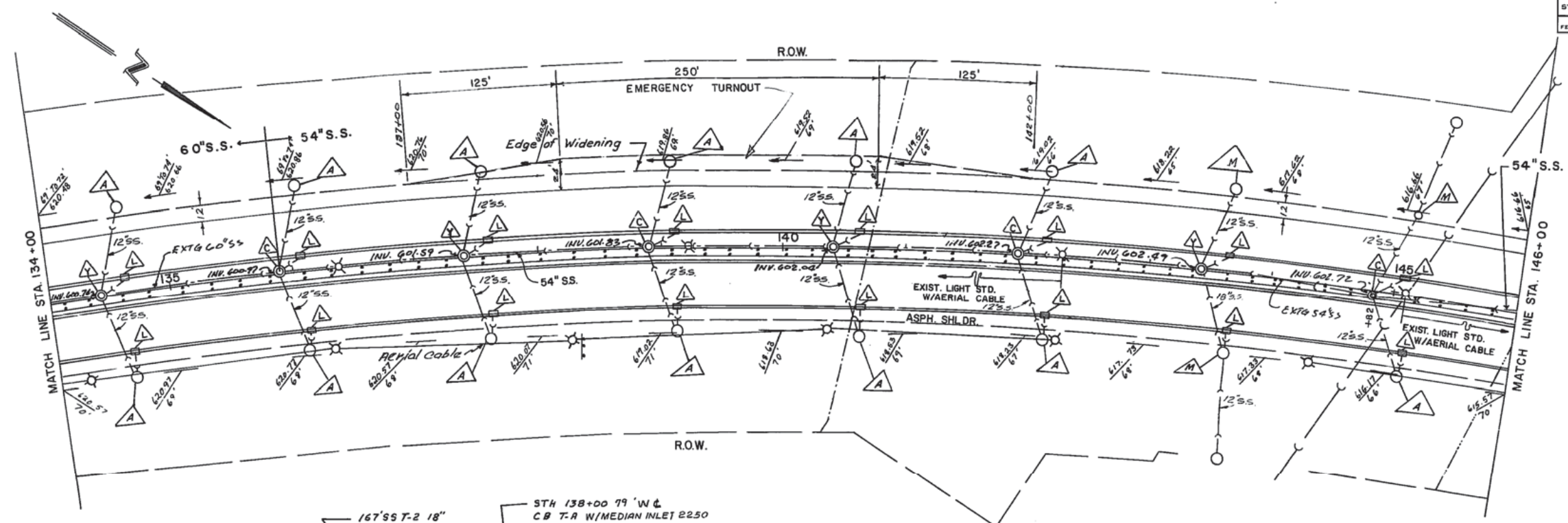
NOTE:
 The Median sub-grade shall drain as shown on this typical section. Changes in the median drainage will require an increase in the thickness of Sub-Base Granular Material Special, and will be allowed when approved by the Engineer. However, the creation of undrained areas in the subgrade due to over excavation will not be allowed, and such areas will be filled with earth meeting the approval of the Engineer and compacted in accordance with Art. 207.05 of the STANDARD SPECIFICATIONS. No additional compensation will be allowed for increases in the thickness of Sub-Base Granular Material Special or for filling undrained areas with earth.

TYPICAL SECTION - SUPERELEVATED PAVEMENT
 (NORTHBOUND PROFILE GRADE ELEV. = SOUTHBOUND PROFILE GRADE ELEV.)
TYPICAL SECTION - SUPERELEVATED PAVEMENT
 (NORTHBOUND PROFILE GRADE ELEV. ≠ SOUTHBOUND PROFILE GRADE ELEV.)
TYPICAL SECTION - NORMAL CROWN PAVEMENT
 (NORTHBOUND PROFILE GRADE ELEV. ≠ SOUTHBOUND PROFILE GRADE ELEV.)

REVISIONS	
NAME	DATE
V.H.	1-15-79
P.G.M.	1-18-79

ILLINOIS DIVISION OF HIGHWAYS
 EDENS EXPRESSWAY
 TYPICAL SECTIONS
 SUPERELEVATED & NORMAL CROWN PAVEMENT

SCALE VERT. 1" = 4'-0"
 HOR. 1" = 40'-0"
 DATE
 DRAWN BY: J.S. [signature]
 CHECKED BY:



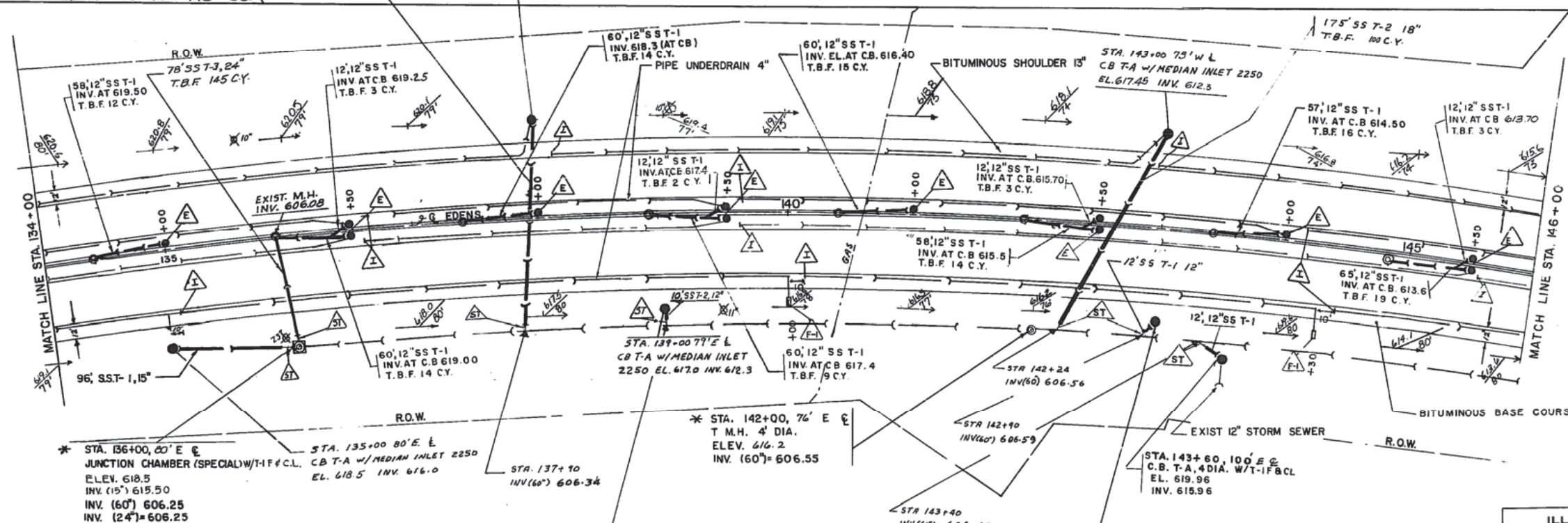
EXISTING

CONCRETE BARRIER TYPE 3
STA. 120+00 TO 148+25.9

PROPOSED
TOP OF FRAME ELEVATION
(FLOW LINE)

STATION	E
135+00	(W) 622.49
136+50	(W) 622.01
136+50	(E) 622.79
138+00	(W) 621.31
139+50	(W) 620.40
139+50	(E) 621.33
141+00	(W) 619.44
142+50	(W) 618.48
142+50	(E) 619.86
144+00	(W) 617.52
145+50	(W) 616.56
145+50	(E) 618.39

BACKFILL FOR UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN) STA 134+00 TO 146+00	
S. B. WEST SIDE	= 55.37 CY
MEDIAN (BOTH SIDES)	= 129.64 CY
N. B. EAST SIDE	= 55.37 CY



△ DESIGNATES EXIST 6' STUB
OF PROPOSED STORM SEWER
SIZE
X TO BE BUILT BY OTHERS

PROPOSED IMPROVEMENT

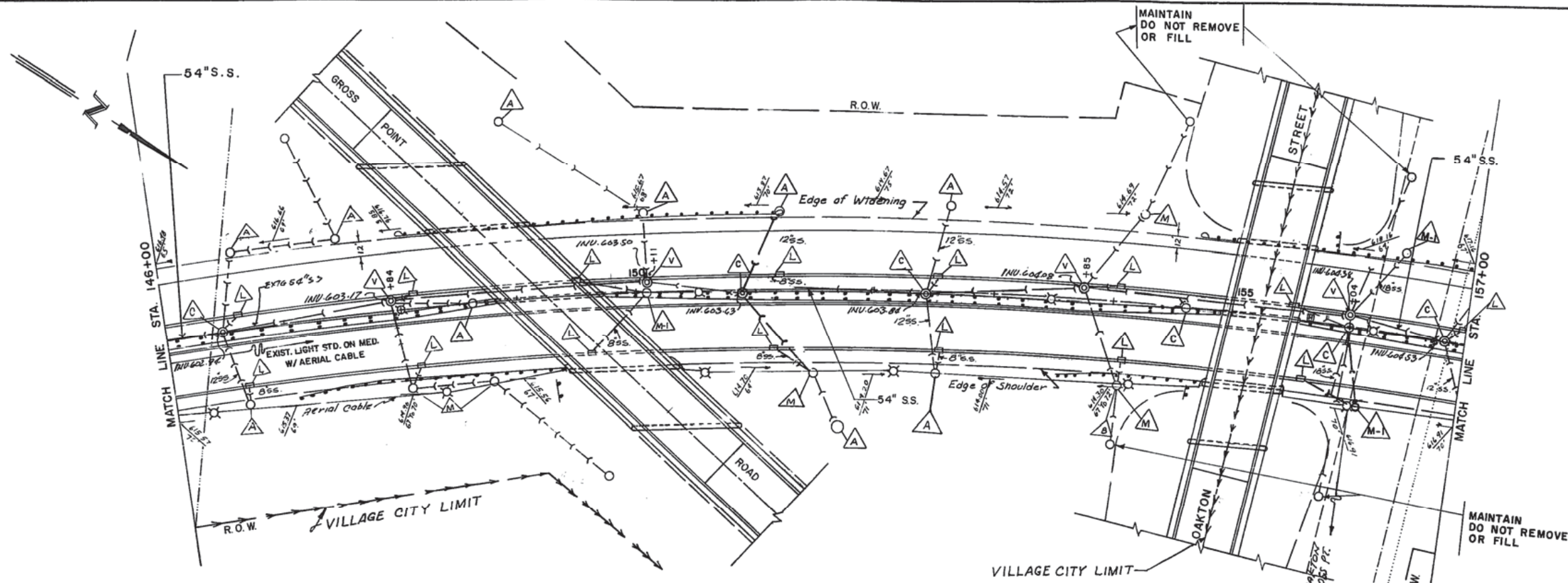
ILLINOIS DIVISION OF HIGHWAYS
EDENS EXPRESSWAY
EXISTING & PROPOSED PLANS

REVISIONS	
NAME	DATE
BGM	11/18/78

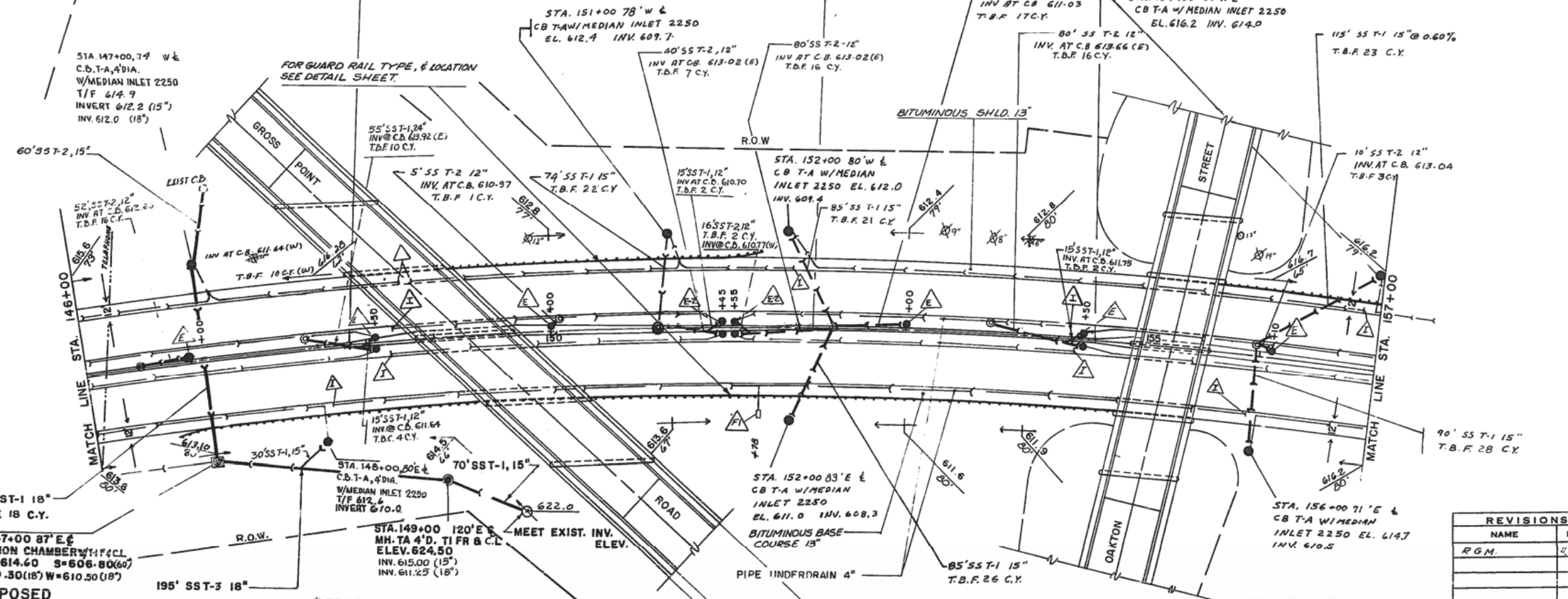
SCALE: VERT 1"=50'
HORIZ 1"=50'
DATE
DRAWN BY
CHECKED BY

Rev. 7-13-79

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94 1977-CB3-R	COOK	246	35
STA 146+00	TO STA 157+00		
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT	



EXISTING CONCRETE BARRIER TYPE 3 STA. 120+00 TO 146+25.9
 CONCRETE BARRIER TYPE 2 STA. 148+25.9 TO 152+26.17
 CONCRETE BARRIER TYPE 3 STA. 152+26.17 TO 154+60.48
 IMPROVEMENT CONCRETE BARRIER TYPE 2 STA. 154+60.48 TO 156+49.62



PROPOSED
TOP OF FRAME ELEVATION
(FLOW LINE)

STATION	E	E-2
146+90	(W) 615.68	
148+50	(W) 614.64	
148+50	(E) 616.92	
150+00	(W) 613.97	
151+45		(E) 613.77
151+45		(E) 616.02
151+55		(E) 613.77
151+55		(E) 616.02
153+00	(W) 614.03	
154+50	(W) 614.75	
154+50	(E) 616.66	
156+10	(W) 616.04	

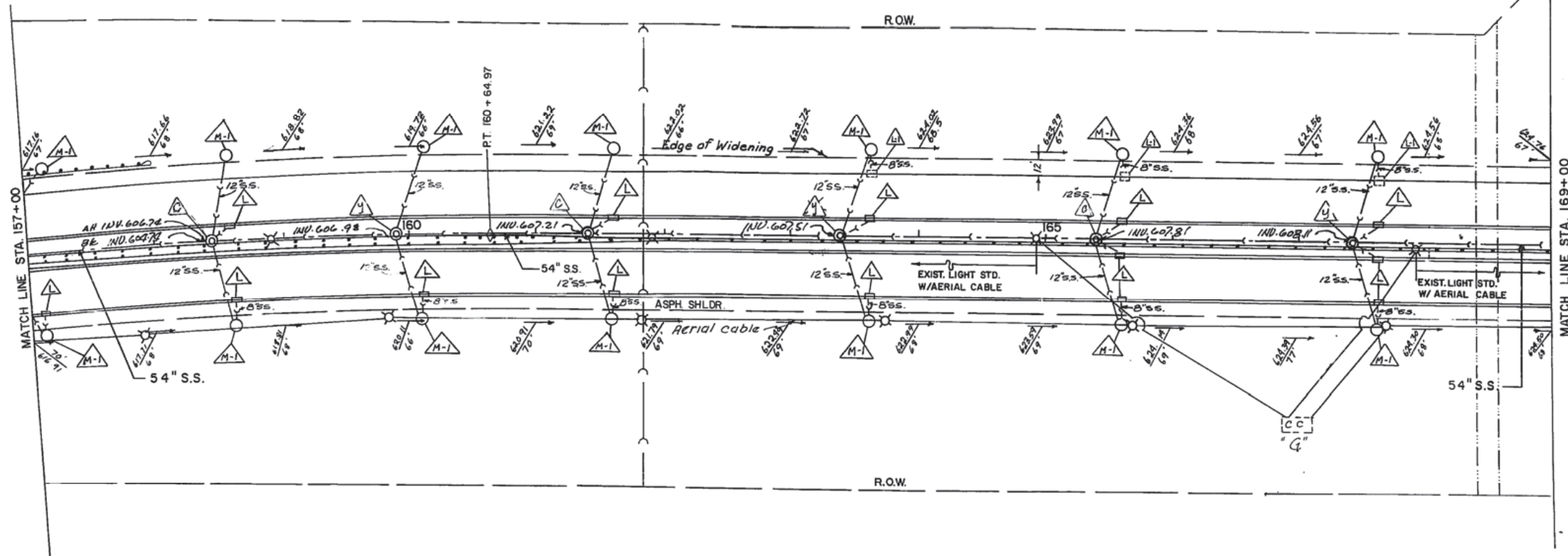
BACKFILL FOR UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN) STA 146+00 TO 157+00	
MEDIAN BOTH SIDES	118.56 C.Y.
N.B. EAST SIDE	51.22 C.Y.
S.B. WEST SIDE	51.22 C.Y.

REVISIONS	
NAME	DATE
R.G.M.	2/28/78

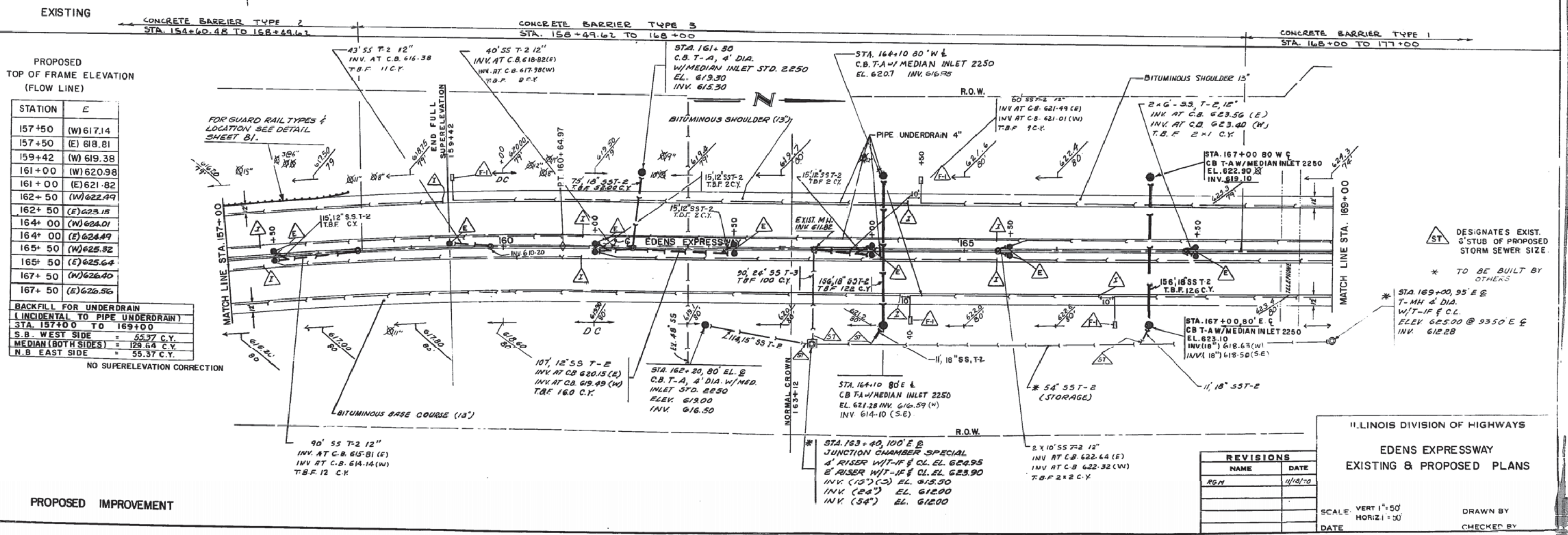
ILLINOIS DIVISION OF HIGHWAYS
 EDENS EXPRESSWAY
 EXISTING & PROPOSED PLANS
 SCALE VERT. HORIZ.
 DATE DRAWN BY CHECKED BY

* STA. 147+00 87' E & JUNCTION CHAMBER WITH F&C L. ELEV. 614.60 S=606-80(60) N=610.30(18) W=610.50(18)

* TO BE BUILT BY OTHERS



CURVE DATA
 A 54°51'30"
 D 1°36'
 T 1858.58'
 L 3428.65'
 E 453.58'
 R 3581.10'
 S 0.02%



PROPOSED
 TOP OF FRAME ELEVATION
 (FLOW LINE)

STATION	E
157+50	(W) 617.14
157+50	(E) 618.81
159+42	(W) 619.38
161+00	(W) 620.98
161+00	(E) 621.82
162+50	(W) 622.49
162+50	(E) 623.15
164+00	(W) 624.01
164+00	(E) 624.49
165+50	(W) 625.32
165+50	(E) 625.64
167+50	(W) 626.40
167+50	(E) 626.56

BACKFILL FOR UNDERDRAIN
 (INCIDENTAL TO PIPE UNDERDRAIN)
 STA. 157+00 TO 169+00
 S.B. WEST SIDE = 53.37 C.Y.
 MEDIAN (BOTH SIDES) = 129.64 C.Y.
 N.B. EAST SIDE = 55.37 C.Y.

NO SUPERELEVATION CORRECTION

DESIGNATES EXIST.
 6" STUD OF PROPOSED
 STORM SEWER SIZE

* TO BE BUILT BY
 OTHERS

* STA. 169+00, 95' E @
 T-MH 4 DIA.
 W/T-IF @ C.L.
 ELEV. 625.00 @ 9350 E @
 INV. 612.28

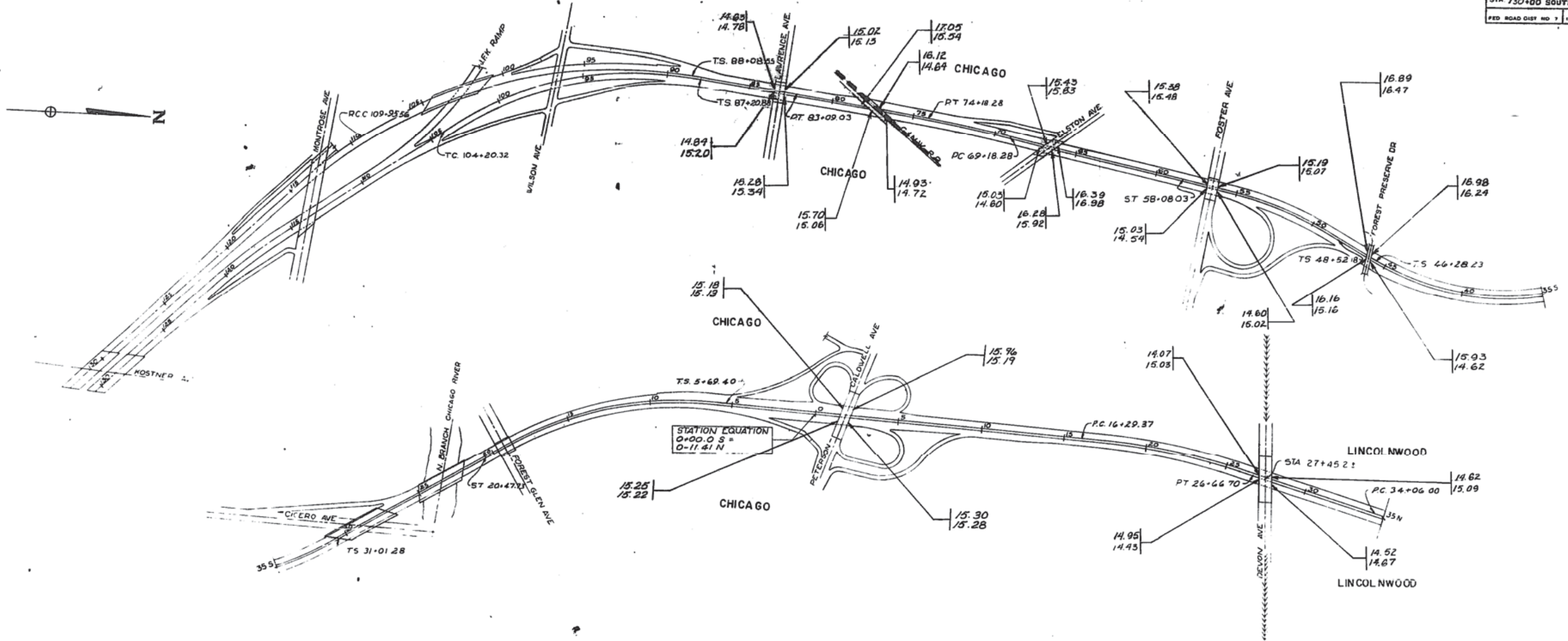
REVISIONS	
NAME	DATE
FGM	11/18/78

ILLINOIS DIVISION OF HIGHWAYS
 EDENS EXPRESSWAY
 EXISTING & PROPOSED PLANS

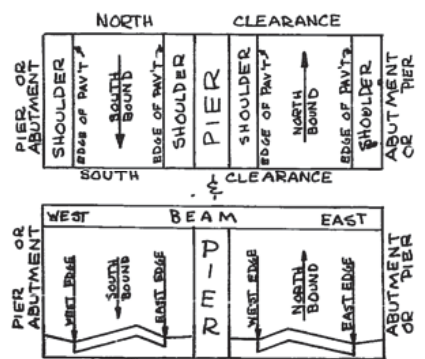
SCALE: VERT 1"=50'
 HORIZI 1"=50'

DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94 1978-083-R	COOK	245	39A
STA. 130+00 SOUTH TO STA. 95+00 NORTH		FED. ROAD DIST. NO. 7 ILLINOIS	
		FED. AID PROJECT	



WEST EDGE OF PAVEMENT
EAST EDGE OF PAVEMENT

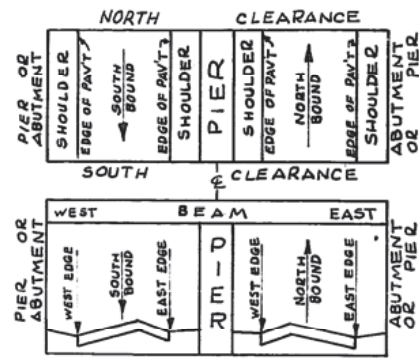


REVISIONS	
NAME	DATE
SH	1-18-79

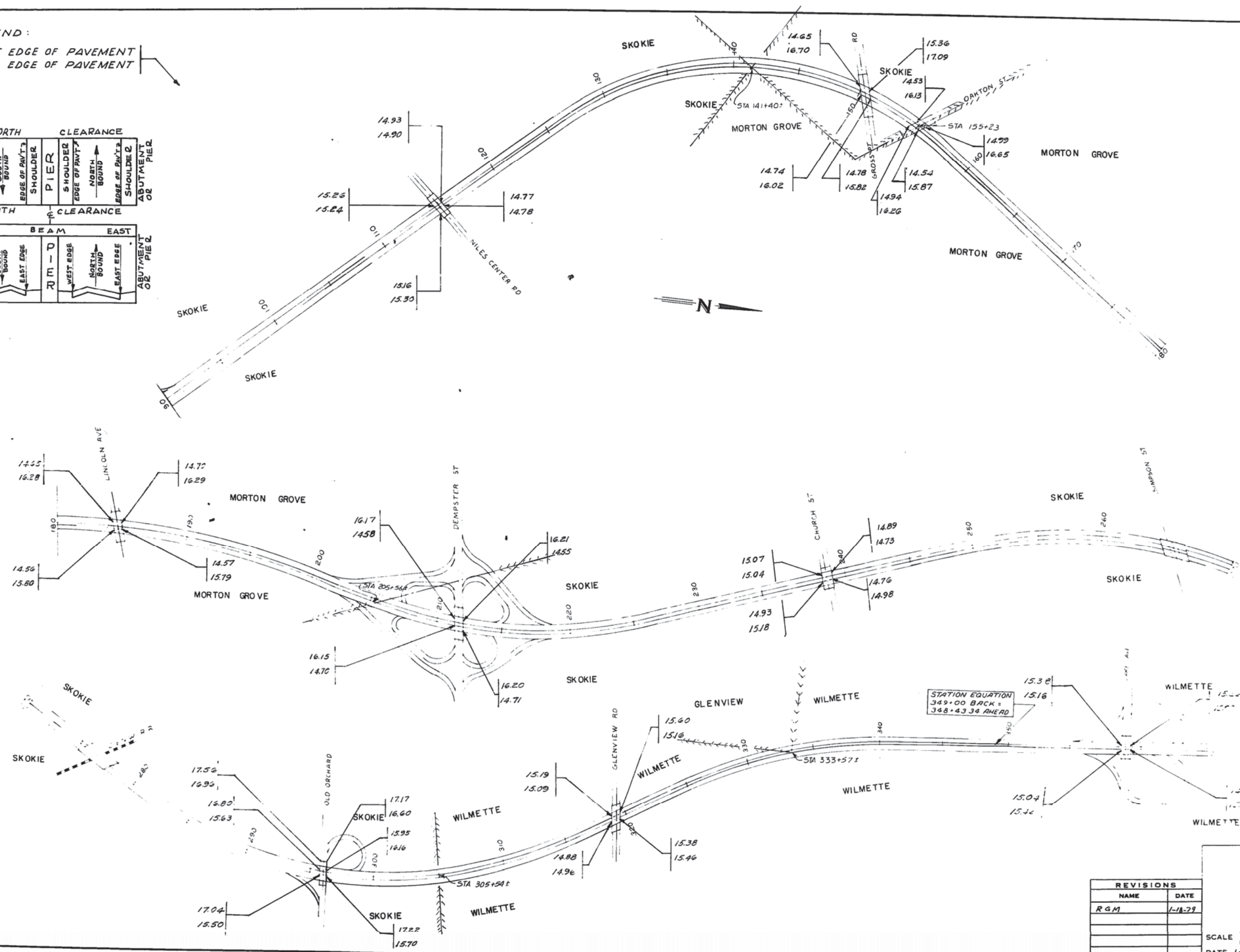
SCALE VERT
HORIZ
DATE
DRAWN BY
CHECKED BY

LEGEND:

WEST EDGE OF PAVEMENT
EAST EDGE OF PAVEMENT



SECTION	COUNTY	TOTAL SHEETS	SHEET NO
94 1978-083-R	Cook	245	39B
STA	TO STA		
FED ROAD DIST NO 1	ILLINOIS	FED AID PROJECT	



STATION EQUATION
349+00 BACK =
348+43.34 AHEAD

REVISIONS	
NAME	DATE
RGM	1-18-79

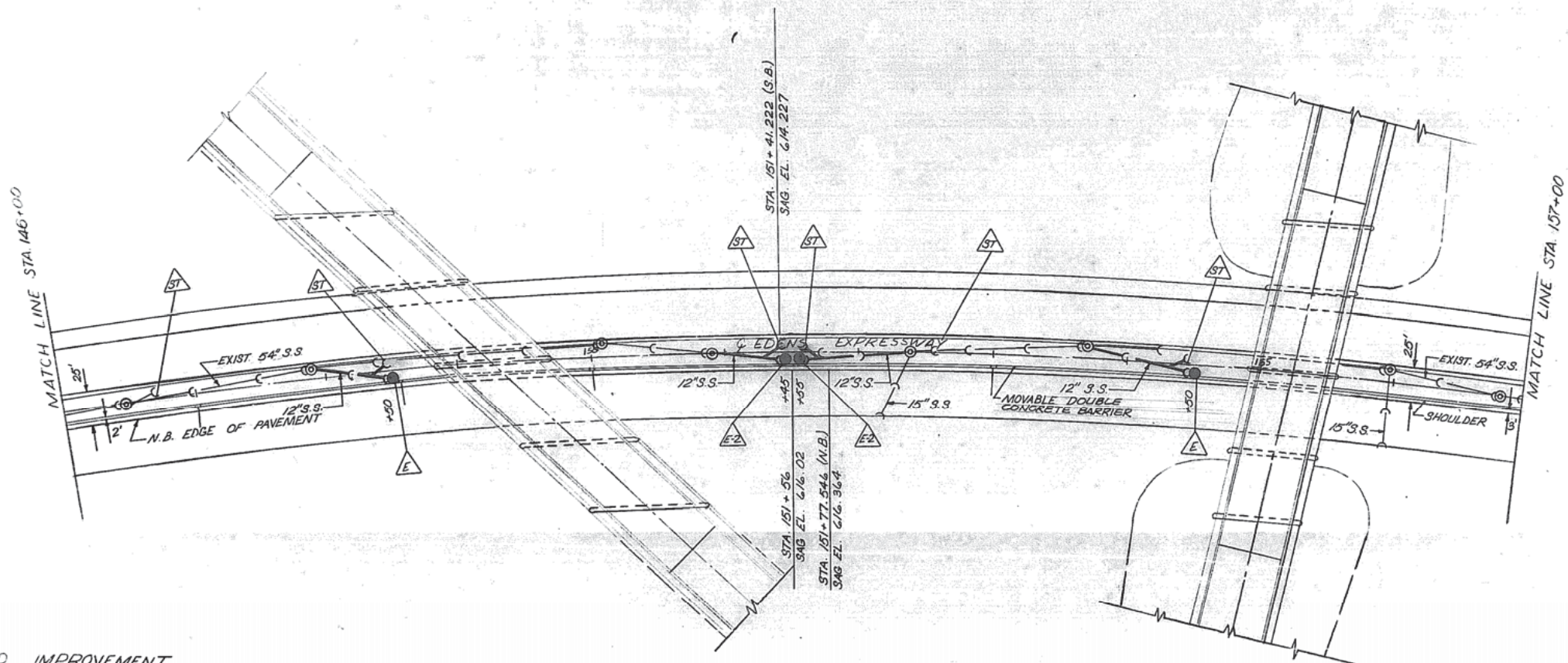
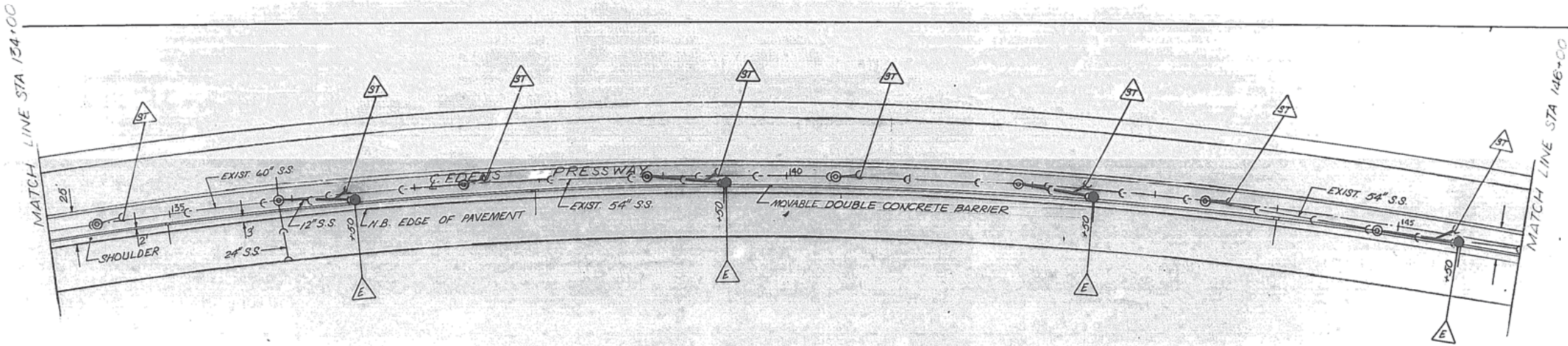
EDENS EXPRESSWAY
PROPOSED BRIDGE
CLEARANCES

SCALE VERT NONE
HORIZ NONE

DATE 1-19-79

DRAWN BY RGM
CHECKED BY

ROUTE NO.	1977	SECTION	245	DATE	10-6
PROJECT	823-A	CONTRACT	134+00	DATE	157+00
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT			



PROPOSED IMPROVEMENT

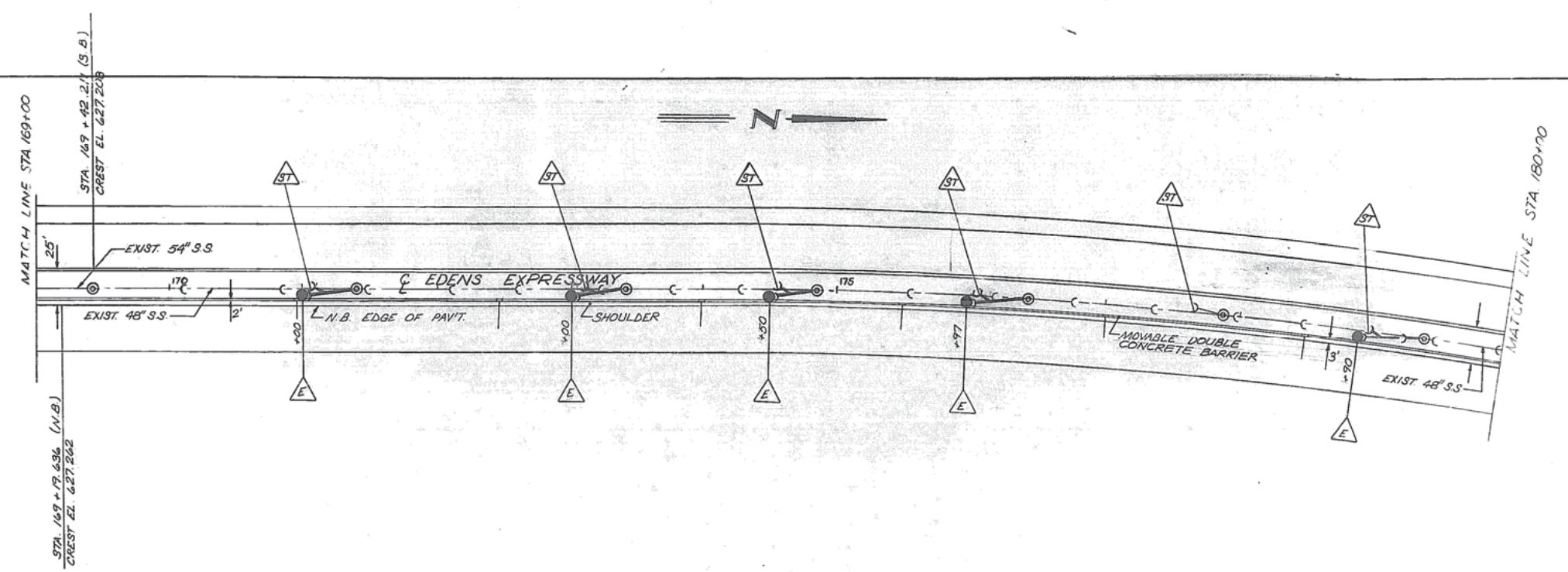
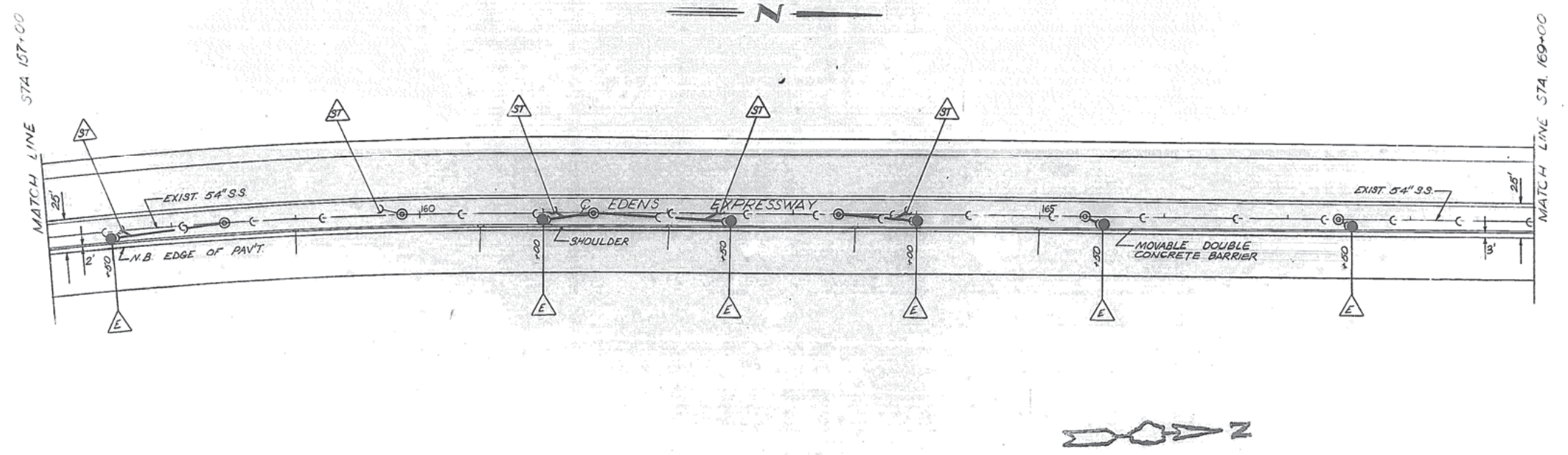
REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
EDENS EXPRESSWAY
INTERIM DRAINAGE

SCALE VERT. DRAWN BY
 HORIZ. SHEETS 2

DATE: 8-7-77

ROUTE 94 1977 245 L.J.H.
 187+00 180+00



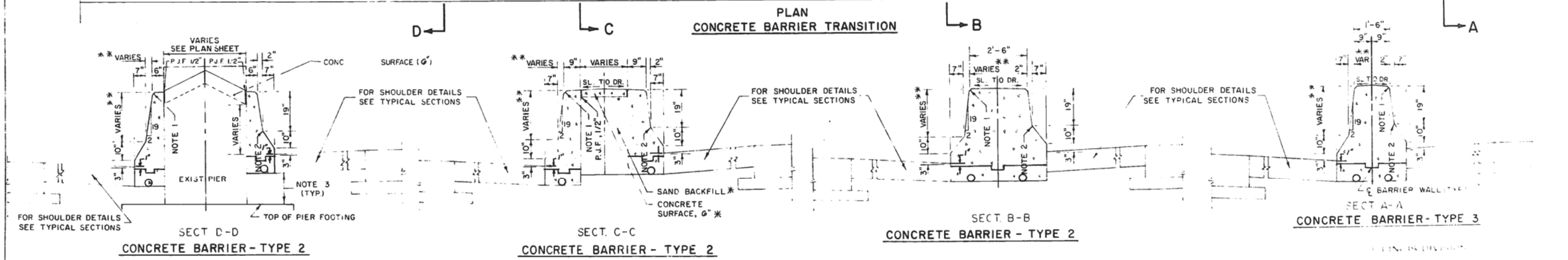
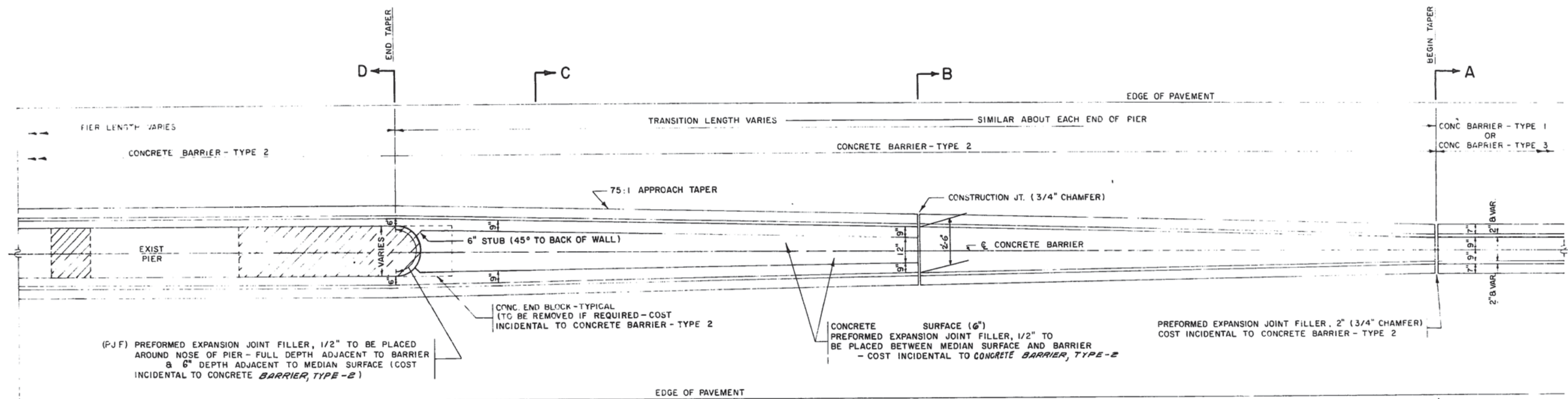
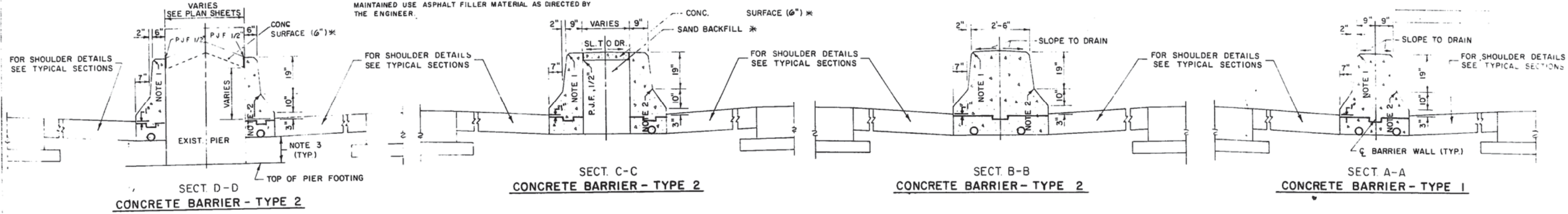
PROPOSED IMPROVEMENT

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
 EDENS EXPRESSWAY
 INTERIM DRAINAGE

SCALE VERT
 HORIZ
 DATE 12/9/77 DRAWN BY
 CHECKED BY

NOTES
 PIER FILLER MATERIAL TO BE CONCRETE F MINIMUM 6" THICKNESS WILL BE MAINTAINED. IF 6" MINIMUM THICKNESS CANNOT BE MAINTAINED USE ASPHALT FILLER MATERIAL AS DIRECTED BY THE ENGINEER.



NOTE 1 - 3/4" CHAMFER OR 1" RADIUS (OPTIONAL)
 NOTE 2 - 10" RADIUS (OPTIONAL)

NOTE 3 - EXTEND BOTTOM OF BARRIER WALL TO FOOTING ONLY WHEN DEPTH IS 6" OR LESS, OTHERWISE MAINTAIN SAME DEPTH AS BOTTOM OF SHOULDER

GENERAL NOTE - FOR UNDERDRAIN DETAILS SEE TYPICAL SECTIONS

FOR KEYWAY(F) DIMENSIONS SEE TYPICAL SECTION

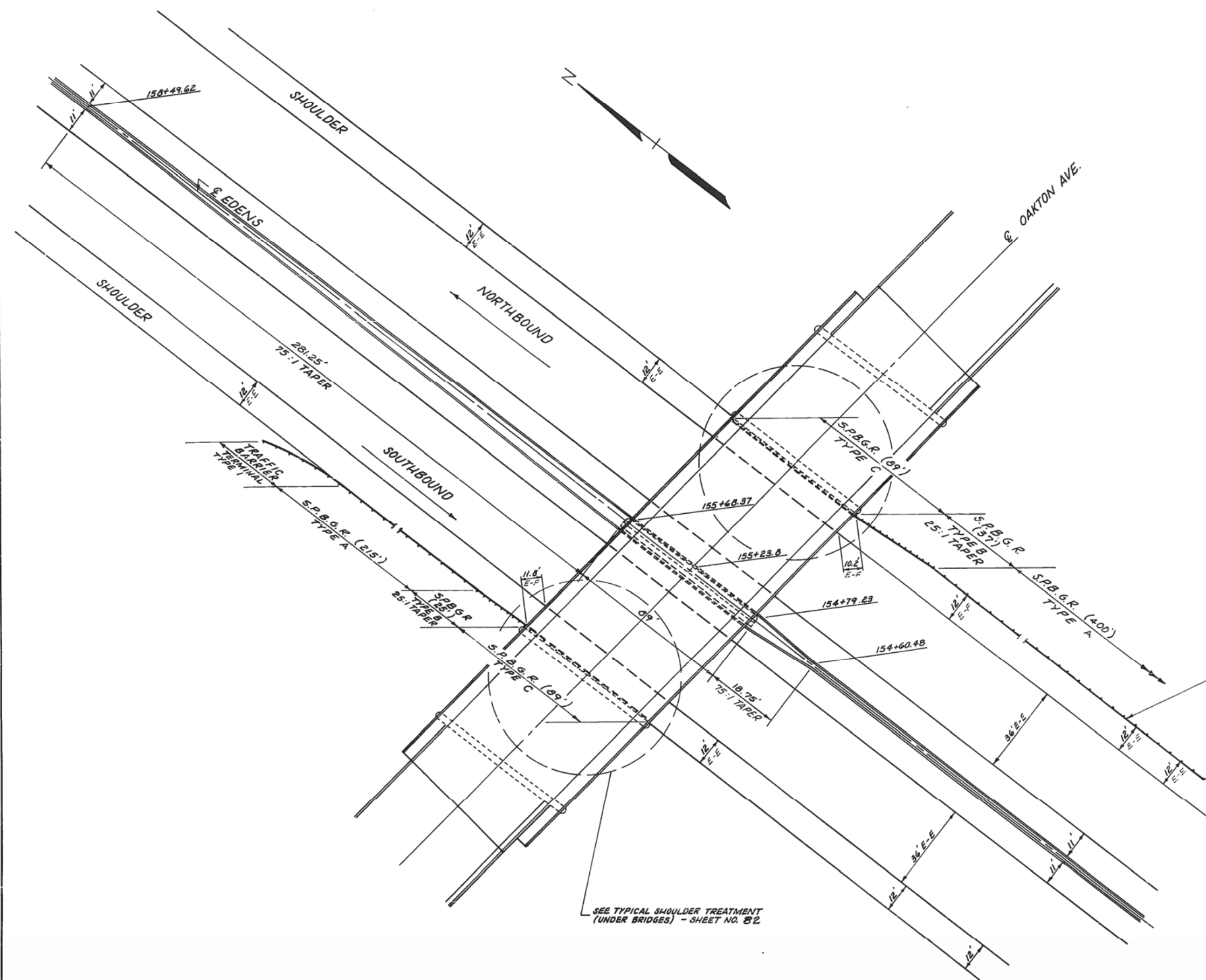
** MAINTAIN SLOPE OF FACE AS SHOWN ON DETAIL. HEIGHT AND WIDTH OF WALL INCREASE WHERE A DIFFERENCE IN MEDIAN EDGE-OF-PAVEMENT GRADE ELEVATION EXISTS

* COST OF THESE ITEMS (SAND BACKFILL, CONCRETE SURFACE (6") AND PIER FILLER MATERIAL) WILL BE INCIDENTAL TO CONCRETE BARRIER, TYPE - 2

REVISIONS	NAME	DATE
1	VH	1-16-77
2	CA	1-19-77

CONCRETE BARRIER - TYPE 1
 CONCRETE BARRIER - TYPE 2
 CONCRETE BARRIER - TYPE 3

F & R	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1977-083-R	COOK	245	81
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



CONTINUOUS RUN OF GUARD RAIL TYPE A, BETWEEN GROSS POINT ROAD AND OAKTON STREET ALONG SHOULDER ON NORTH BOUND LANES.

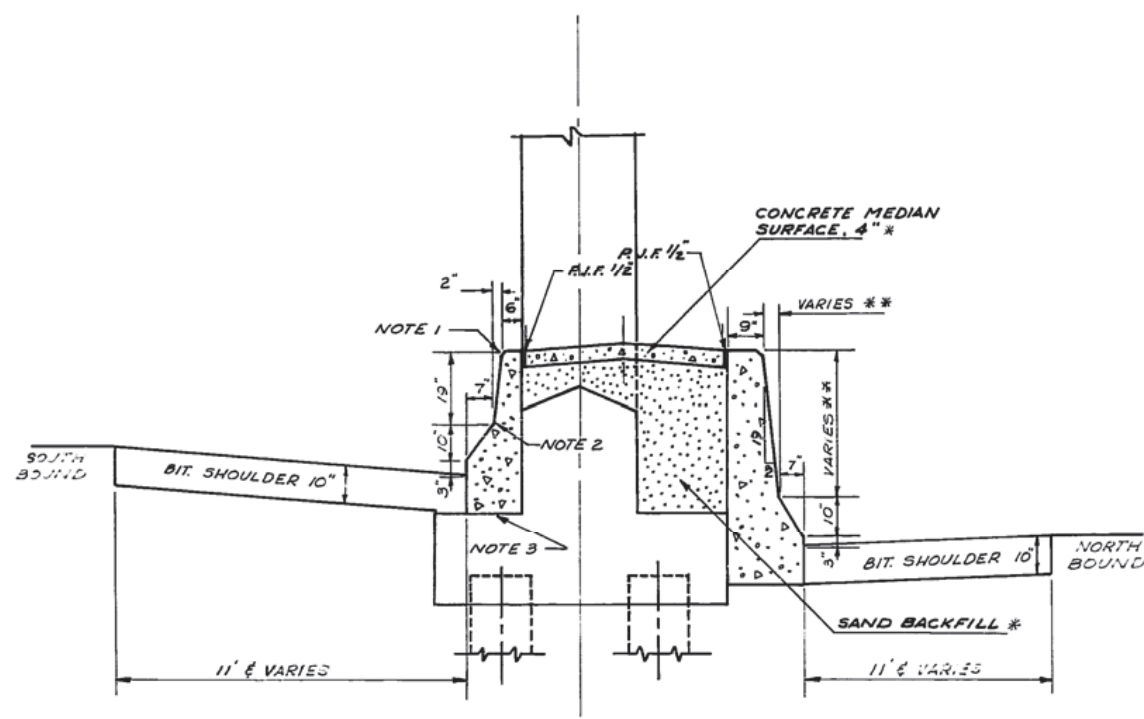
NOTE: DO NOT SCALE

SEE TYPICAL SHOULDER TREATMENT (UNDER BRIDGES) - SHEET NO. 82

REVISIONS	
NAME	DATE

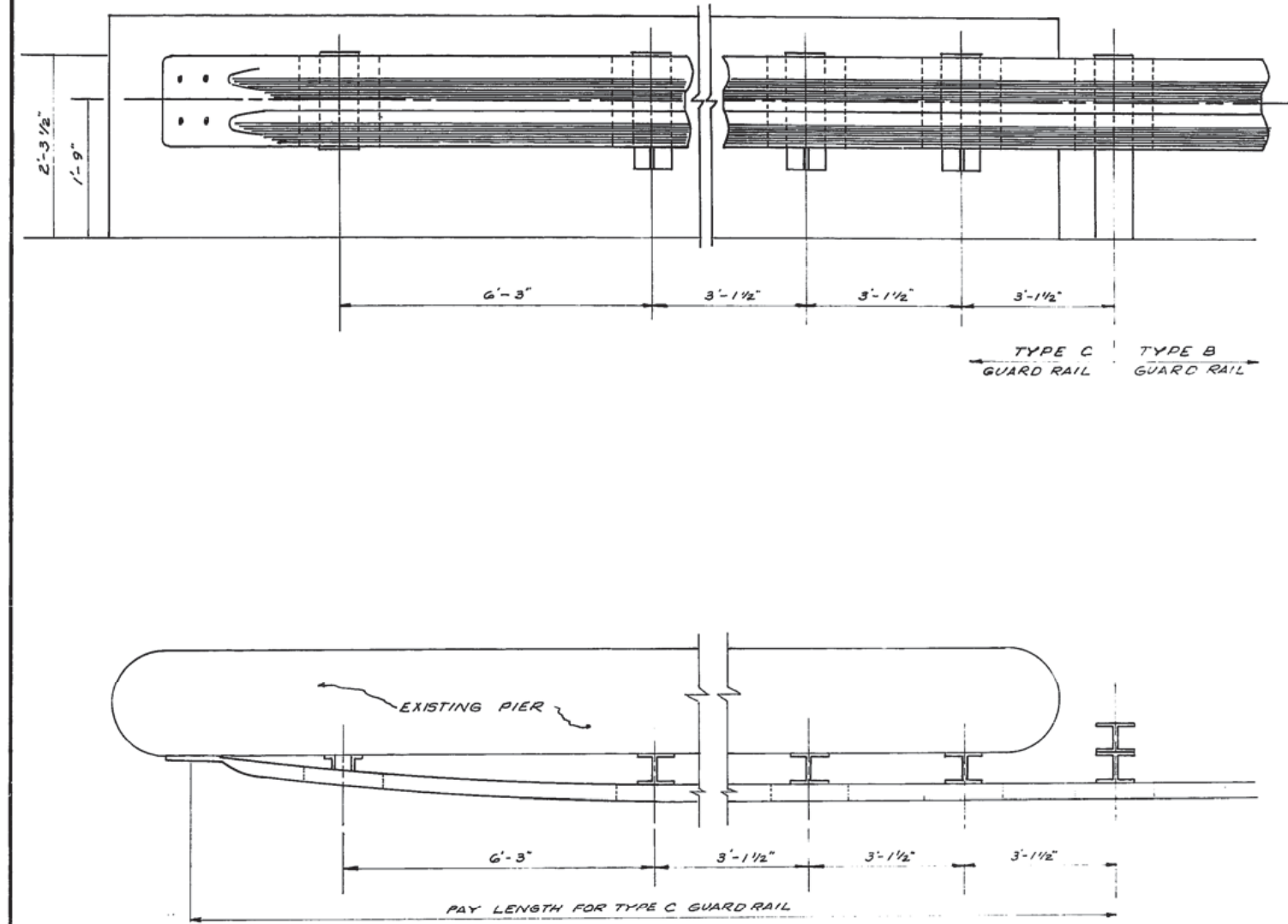
ILLINOIS DIVISION OF HIGHWAYS
EDENS EXPRESSWAY
 PROPOSED CONCRETE BARRIER & GUARD RAIL DETAIL AT OAKTON AVE. BRIDGE

SCALE: VERT. } NONE
 HORIZ. }
 DATE _____ DRAWN BY _____
 CHECKED BY _____



**DETAIL SHOWING BARRIER WALL AT BRIDGE PIER
OAKTON STREET
GROSS POINT**

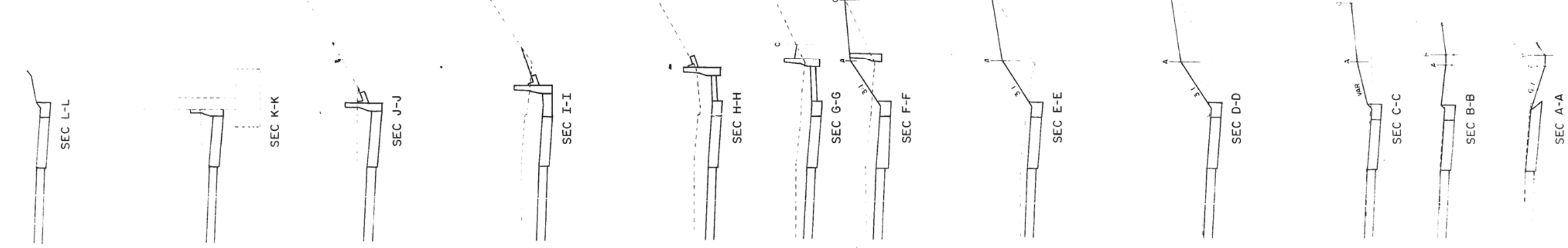
- * COST OF THESE ITEMS, SAND BACKFILL, CONCRETE MEDIAN SURFACE (A), AND PIER FLOOR MATERIAL, WILL BE INCIDENTAL TO CONCRETE BARRIER, TYPE "B".
- 6. * MAINTAIN SLOPE OF FACE AS SHOWN IN DETAIL. HEIGHT AND WIDTH OF WALL INCREASE WHERE A DIFFERENCE IN MEDIAN EDGE-OF-PAVEMENT GRADE ELEVATION EXISTS.
- NOTE 1 - 3/4" CHAMFER OR 1" RADIUS (OPTIONAL)
- NOTE 2 - 10" RADIUS (OPTIONAL)
- NOTE 3 - EXTEND BOTTOM OF BARRIER WALL TO FOOTING ONLY WHEN DEPTH IS 6" OR LESS, OTHERWISE MAINTAIN SAME DEPTH AS BOTTOM OF SHOULDER.



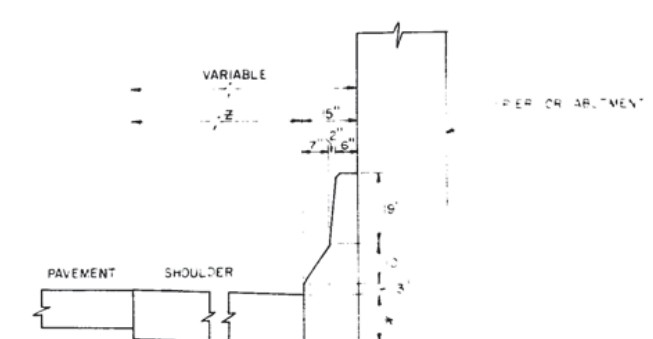
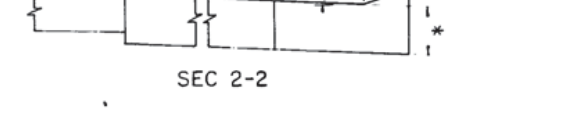
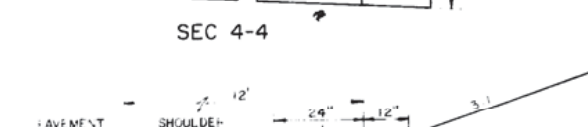
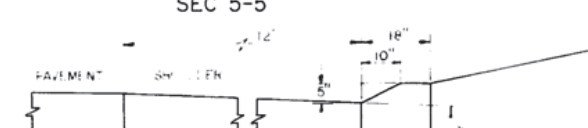
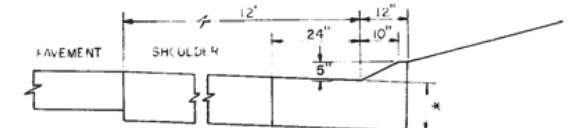
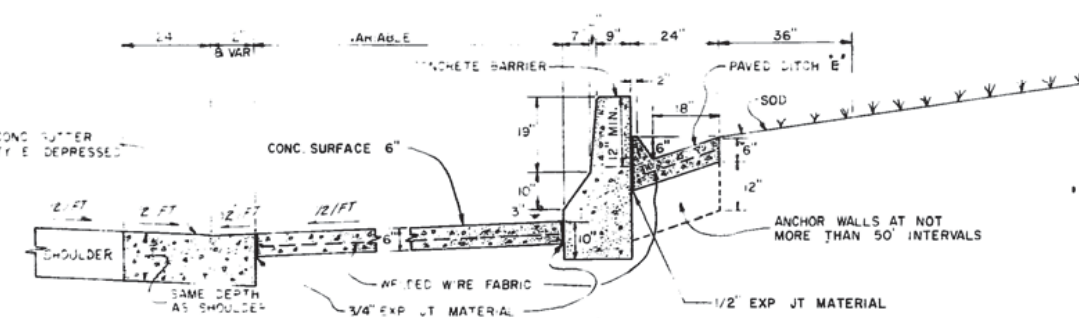
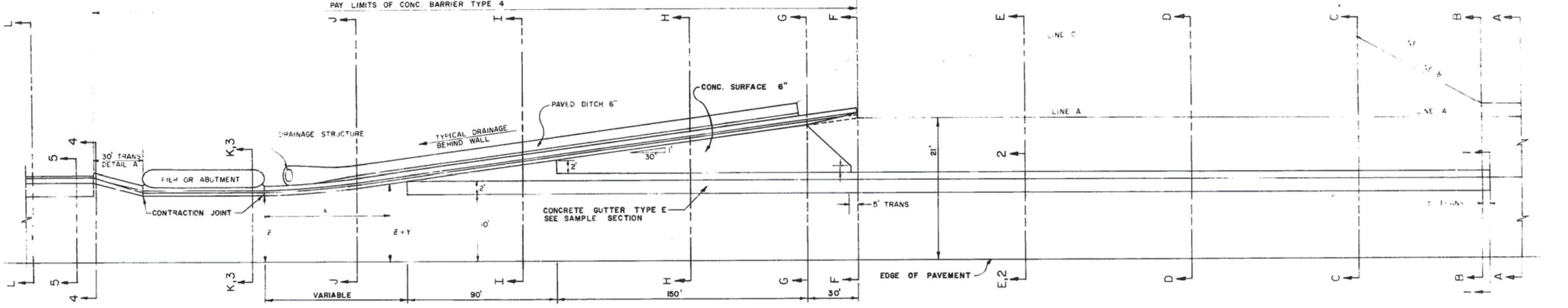
**PROPOSED END TREATMENT FOR
TYPE C GUARDRAIL**

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
EDENS EXPRESSWAY
TYPICAL DETAILS FOR
CONCRETE BARRIER
&
GUARD RAIL AT BRIDGES
SCALE: VERT. _____ DRAWN BY _____
HORIZ. _____ CHECKED BY _____
DATE _____



PAY LIMITS OF CONC. BARRIER TYPE 4



NOTES:

1. CROSS SECTIONS SHOWN ON THIS SHEET ARE REPRESENTATIVE OF SLOPE TREATMENT WITHIN PRACTICAL LIMITATIONS. GRADING OF SLOPE SHALL BE COMPLETED PRIOR TO EXCAVATION FOR CONCRETE BARRIER, TO PREVENT BARRIER FROM BEING MOVED BY EQUIPMENT. PAVED DITCH "E", SHALL BE EXCAVATED IN COMPLETED SLOPE. FILL MATERIAL, SHALL NOT BE PLACED, ADJACENT TO PAVED DITCH "E" (EXCLUDING TOP SOIL).

2. CONTRACTION JOINTS, SHALL BE PLACED AS INDICATED IN THE SPECIAL DETAILS FOR CONCRETE BARRIER, SHOWN ELSEWHERE IN THE PLAN AND AS DIRECTED BY THE ENGINEER.

3. PAVED DITCH "E" SHALL BE PAID FOR PER LINEAL FOOT.

4. WELDED WIRE FABRIC SHALL BE 6" X 6" MESH # 4 GAGE, 58 LBS. PER 100 SQ. FT. CONFORMING TO THE REQUIREMENTS OF AASHTO. M-55.

5. EXPANSION JOINT MATERIAL SHALL BE PREFORMED EXPANSION JOINT FILLER.

6. THE COST OF FURNISHING AND PLACING THE EXPANSION JOINT MATERIAL AND THE WELDED WIRE FABRIC WILL BE CONSIDERED INCIDENTAL TO THE PAVED DITCH "E" & CONC. SURFACE "6".

7. PLACE P.C.E. AT STA. 58+00 LT. TO STA. 58+32 LT. 1" IN DEPTH OR AS DIRECTED BY THE ENGINEER, FROM E.O.P. TO BACK OF CONC. BARRIER. CONNECT THE PIPE UNDERDRAIN TO THE MAINLINE AT THE LOWEST POINT.

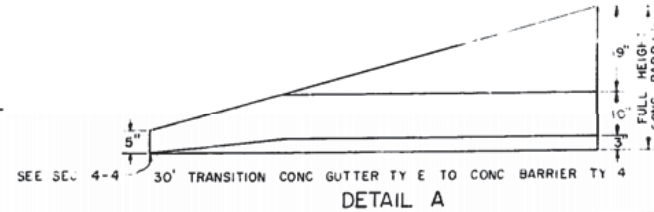
X	Y
25	0.21
50	0.83
75	1.67
100	2.50
125	3.33
150	4.17
175	5.00
200	5.83
225	6.67
250	7.50
275	8.33
300	9.17
325	10.00
350	10.83
375	11.67
400	12.50

X = DISTANCE FROM PIER OR ABUTMENT
 Y = OFFSET DISTANCE FROM TOP
 OF DITCH TO BASE OF CONC. BARRIER
 FROM EDGE OF PAVEMENT TO PIER OR ABUTMENT
 PAVED OFFSET FROM EDGE OF PAVEMENT TO BASE OF CONC. BARRIER

ILLINOIS DIVISION OF HIGHWAYS
 EDENS EXPRESSWAY
 DETAIL OF CONCRETE BARRIER TYPE 4A

REVISIONS	
NAME	DATE
✓	1-12-79

SCALE: VERT. 1" = 10'
 HORIZ. 1" = 100'
 DATE: _____



SEC 1-1
 * SAME DEPTH AS SHOULDER (10" MIN.)

SECTION	94	COUNTY	COOK	TOTAL SHEETS	246	SHEET	85
TO STA							
FROM STA							

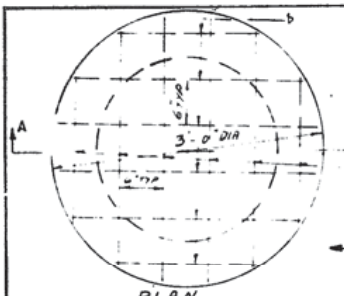
NOTES

1) IN PLACES INDICATED ON THE PLANS THE CONTRACTOR SHALL CONNECT THE PROPOSED UNDERDRAIN PIPE WITH PROPOSED STORM SEWER PIPE IN OPENINGS PREPARED FOR THIS PURPOSE (USING MORTAR), ALL AS SHOWN ON THE DETAIL DRAWING AND AS DIRECTED BY THE ENGINEER.

2) IN PLACES INDICATED ON THE PLANS, WHERE OUTLETS OF PIPE UNDERDRAIN AT MEDIAN ARE PROVIDED FROM TWO DIRECTIONS, THE CONNECTIONS OF PIPE UNDERDRAIN WITH PROPOSED STORM SEWER PIPE ARE SIMILAR TO IN THE DETAIL "PIPE UNDERDRAIN CONNECTION WITH PROP S S PIPE AT MEDIAN" SHOWN, ALL AS DIRECTED BY THE ENGINEER.

3) THIS WORK WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR PIPE UNDERDRAIN 4", WHICH PRICE SHALL INCLUDE ALL LABOR, TOOLS AND MATERIALS NECESSARY FOR THE COMPLETION OF THE WORK.

4) THE REMOVAL OF THE EXISTING FRAME AND GRATE, THE REMOVAL OF THE BRICK COURSE ON TOP OF THE EXISTING CATCH BASIN, THE REMOVAL OF THE C.B. TO THE DEPTH INDICATED ON THE PLAN, THE SAND FILL, WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR "EXISTING CATCH BASIN TO BE FILLED MAINTAINING FLOW".



NOTES (DETAIL "A-1") THE FILLING OF THE EXISTING CATCH BASIN, INCLUDING THE REMOVAL OF FRAME AND GRATE, REMOVAL OF EXISTING SAND FILL, TRIMMING EXISTING STORM SEWER LATERAL OPENING, 6\"/>

2) THE PROPOSED CONCRETE ADJUSTMENT RINGS SHALL BE SET ON TOP OF EXISTING CONCRETE SLAB COVER. ALL INTERIORS, INCLUDING SETTLEMENT, SHALL BE FILLED WITH SAND. THE SAND SHALL BE FILLED TO THE TOP OF THE CONCRETE ADJUSTMENT RINGS. PROVIDING REINFORCED CONCRETE SLAB COVER.

PLAN OF PROPOSED REINFORCED CONCRETE SLAB SHOWING REINFORCEMENT

EDGE OF EXISTING PAVEMENT AND RESURFACING, DO NOT APPLY

EDGE OF EXISTING PAVEMENT (PROP. RESURFACING)

PROP. BIT CONC. SURFACE CRS., 1 1/2\"/>

PROP. BIT CONC. BINDER CRS., 1 1/2\"/>

EXIST. BIT CONC. SURFACE CRS.

EXIST. BIT CONC. BINDER CRS.

4# BAR SPAC. @ 3'-0\"/>

TO CENTER

SECTION A-A

PROP. REINFORCED CONCRETE SLAB COVER

4# BAR SPAC. @ 3'-0\"/>

TO CENTER

BILL OF MATERIALS FOR THE REINFORCED CONCRETE

1) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

2) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

3) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

4) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

5) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

6) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

7) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

8) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

9) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

10) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

11) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

12) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

13) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

14) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

15) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

16) 4# BAR SPAC. @ 3'-0\"/>

TO CENTER

MIN. 2\"/>

MAX. 2.5\"/>

SEE NOTE 2

EXIST. PAVT. 1.0\"/>

PROP. SUB BASE 6\"/>

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

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PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

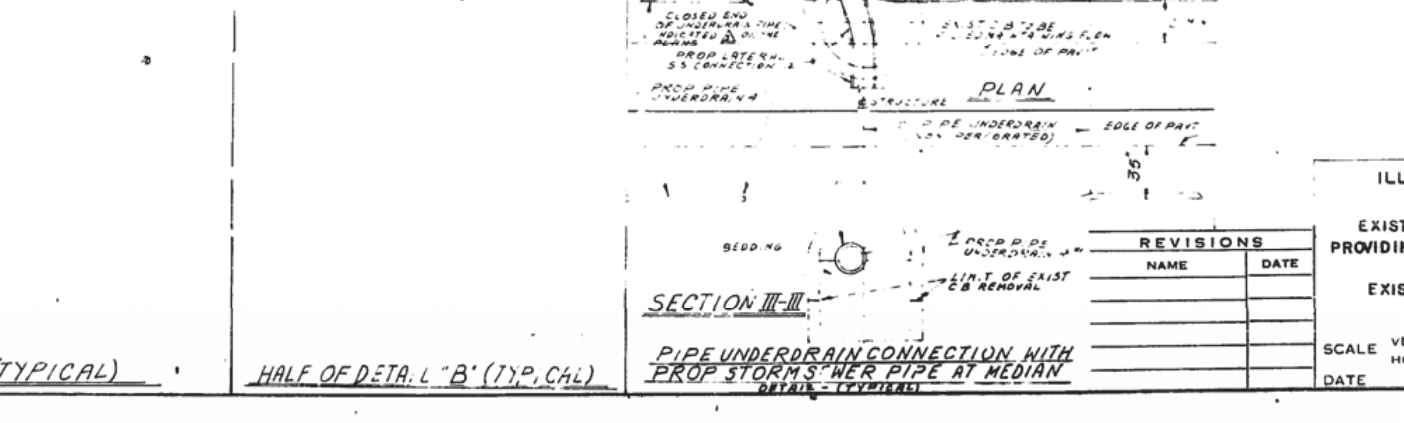
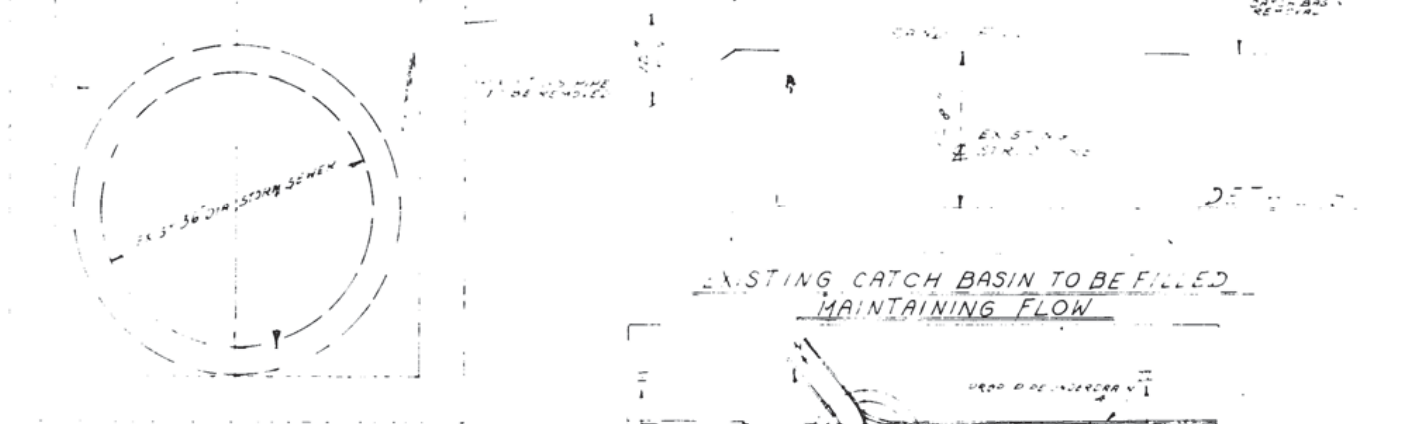
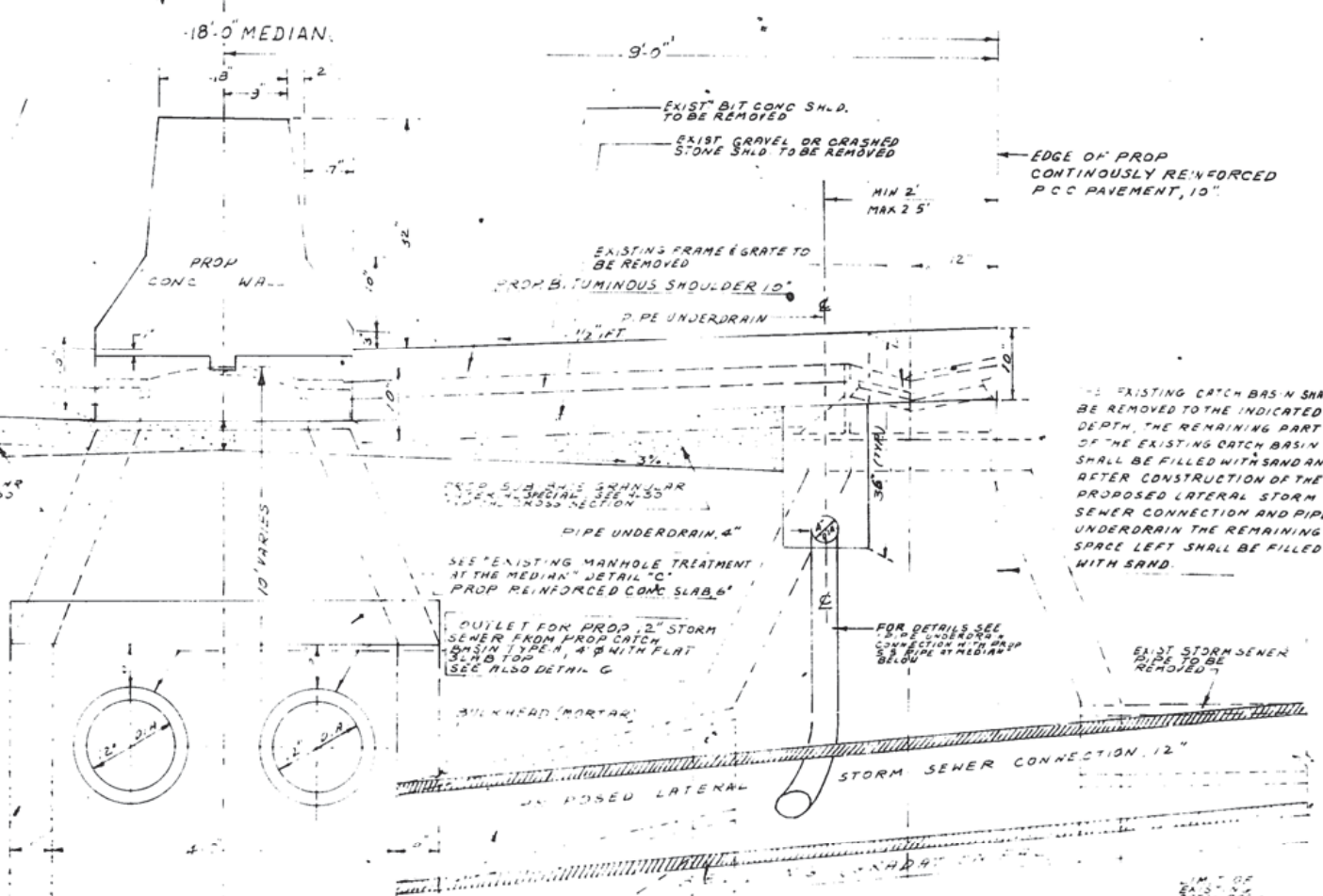
PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33

PROP. SUB BASE GRANULAR MATERIAL, SPECIAL SEE H-33



NOTES (DETAIL "A")

1) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

2) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

3) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

4) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

5) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

6) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

7) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

8) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

9) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

10) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

11) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

12) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

13) THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS AND FOREIGN MATERIAL FOUND IN THE EXISTING DRAINAGE STRUCTURE BEFORE THE MANHOLE STRUCTURE IS FILLED WITH SAND. ALL WORK DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS SPECIFIED IN STORM SEWER TO BE CLEANED SPECIAL PROVISIONS.

REINFORCED CONCRETE SLAB COVER (DETAIL "A")

SECTION II-II

PIPE UNDERDRAIN CROSSING ABANDONED STRUCTURE

SECTION II-II

PIPE UNDERDRAIN CROSSING ABANDONED STRUCTURE

SECTION II-II

PIPE UNDERDRAIN CROSSING ABANDONED STRUCTURE

SECTION II-II

PIPE UNDERDRAIN CROSSING ABANDONED STRUCTURE

HALF OF DETAIL "A-1" (TYPICAL)

HALF OF DETAIL "B" (TYPICAL)

SECTION III-III

PIPE UNDERDRAIN CONNECTION WITH PROP STORM SEWER PIPE AT MEDIAN

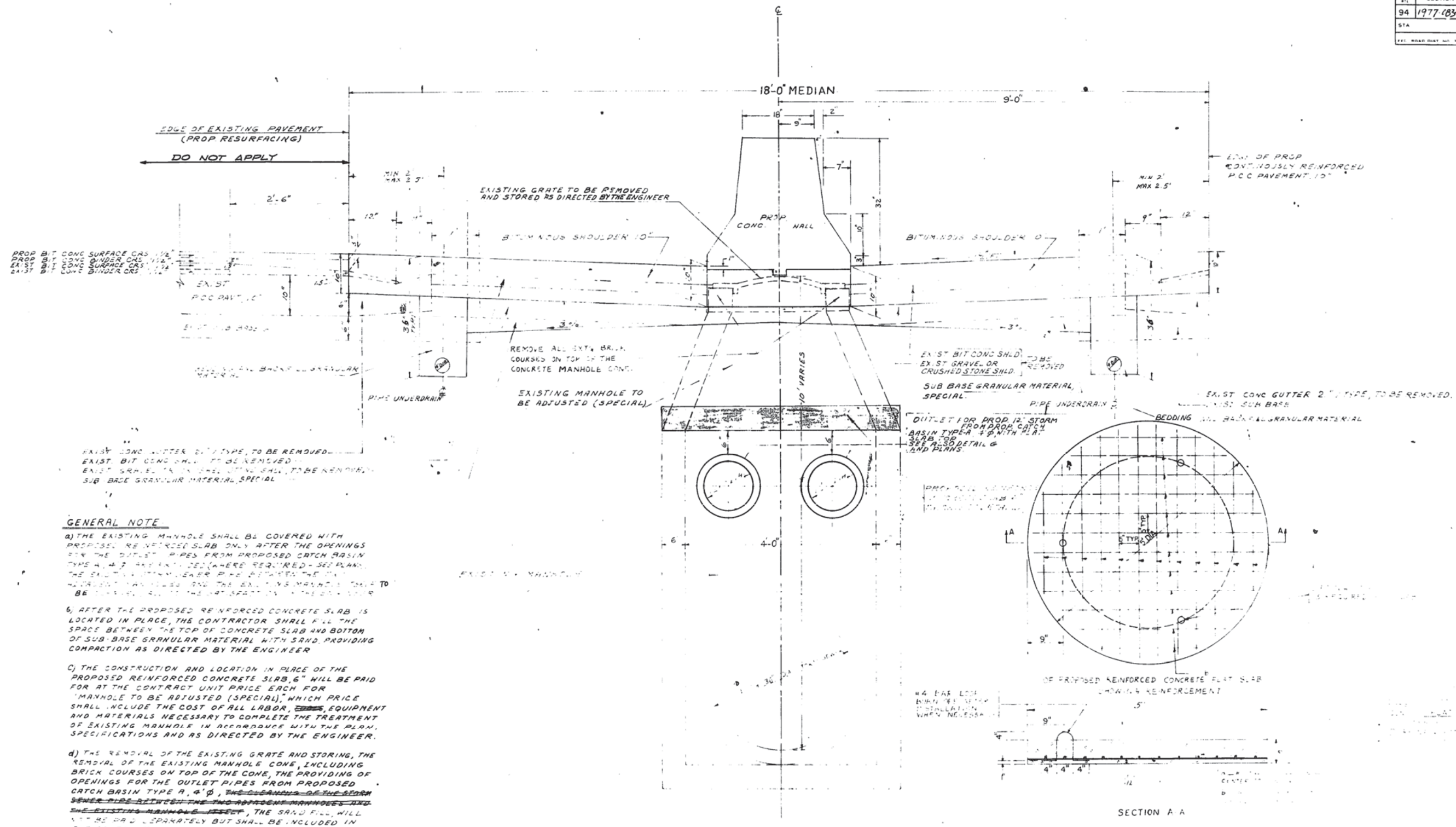
DETAIL - TYPICAL

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
 EDENS EXPRESSWAY
 RECONSTRUCT
 EXISTING CATCH BASIN TO BE FILLED PROVIDING REINFORCED CONCRETE SLAB COVER (DETAIL A-1)
 EXISTING CATCH BASIN TO BE FILLED MAINTAINING FLOW (DETAIL B)

SCALE VERT
 HORIZ
 DATE

DRAWN BY
 CHECKED BY



GENERAL NOTE

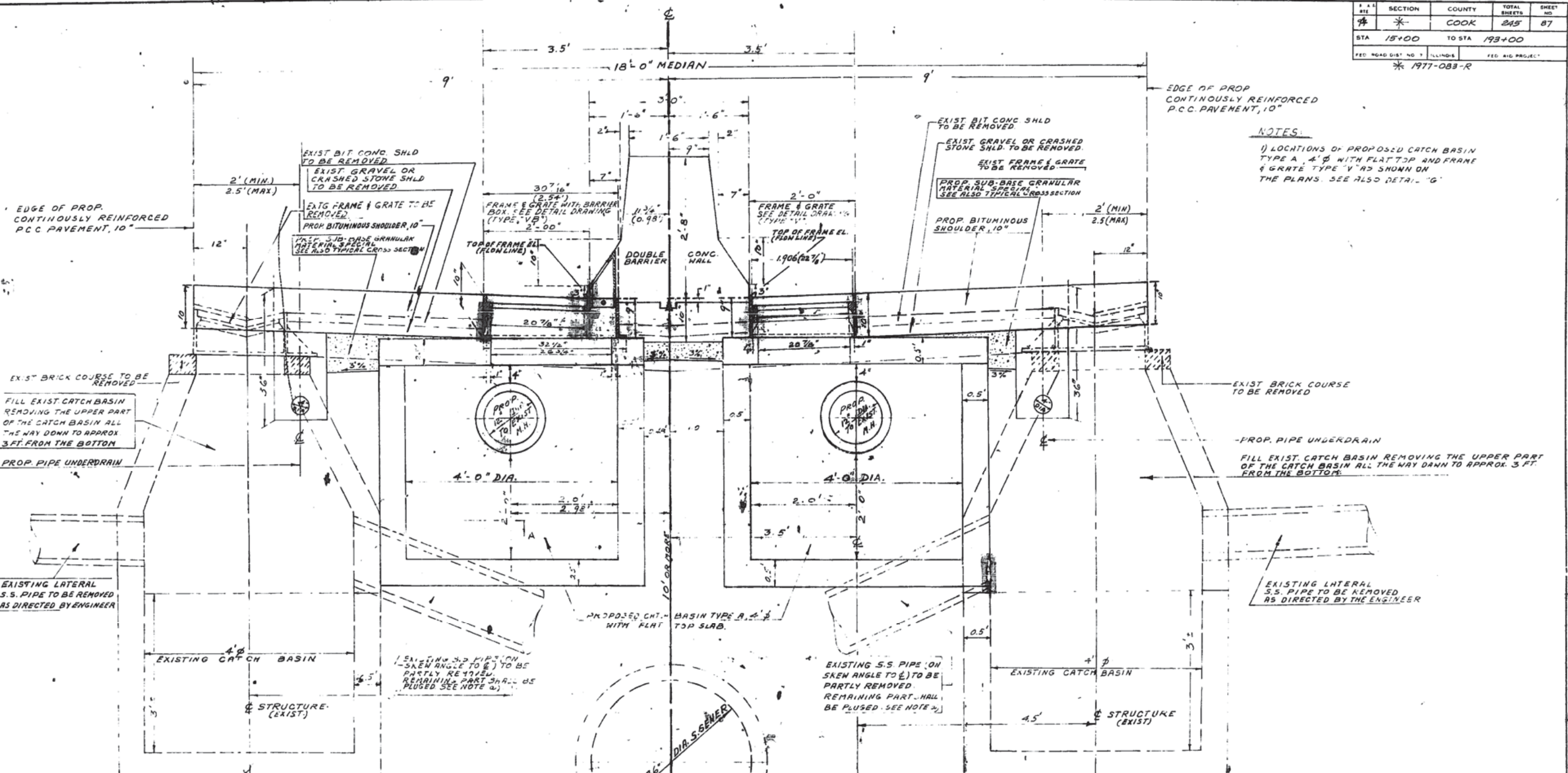
- a) THE EXISTING MANHOLE SHALL BE COVERED WITH PROPOSED REINFORCED SLAB ONLY AFTER THE OPENINGS FOR THE OUTLET PIPES FROM PROPOSED CATCH BASIN TYPE A, 4' 0" DIA. (WHERE REQUIRED - SEE PLAN) THE EXISTING STORM SEWER PIPE BETWEEN THE EXISTING MANHOLE AND THE EXISTING MANHOLE SHALL BE REMOVED AND THE EXISTING MANHOLE SHALL BE ADJUSTED (SPECIAL).
- b) AFTER THE PROPOSED REINFORCED CONCRETE SLAB IS LOCATED IN PLACE, THE CONTRACTOR SHALL FILL THE SPACE BETWEEN THE TOP OF CONCRETE SLAB AND BOTTOM OF SUB-BASE GRANULAR MATERIAL WITH SAND, PROVIDING COMPACTION AS DIRECTED BY THE ENGINEER.
- c) THE CONSTRUCTION AND LOCATION IN PLACE OF THE PROPOSED REINFORCED CONCRETE SLAB, 6" WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "MANHOLE TO BE ADJUSTED (SPECIAL)", WHICH PRICE SHALL INCLUDE THE COST OF ALL LABOR, ~~EQUIPMENT~~ EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE TREATMENT OF EXISTING MANHOLE IN ACCORDANCE WITH THE PLAN, SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- d) THE REMOVAL OF THE EXISTING GRATE AND STORING, THE REMOVAL OF THE EXISTING MANHOLE CONE, INCLUDING BRICK COURSES ON TOP OF THE CONE, THE PROVIDING OF OPENINGS FOR THE OUTLET PIPES FROM PROPOSED CATCH BASIN TYPE A, 4' 0", ~~THE CLEANING OF THE STORM SEWER PIPE BETWEEN THE TWO ADJACENT MANHOLES AND THE EXISTING MANHOLE CONE~~, THE SAND FILL, WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR "MANHOLE TO BE ADJUSTED (SPECIAL)".
- e) THE REMOVAL OF THE EXISTING STORM SEWER PIPE FROM THE REMOVED STRUCTURE TO THE EXISTING MANHOLE TO BE ADJUSTED (SPECIAL), THE PLUGGING OF THE EXISTING OUTLET OPENING FOR THE REMOVED STORM SEWER PIPE, ALL AS DIRECTED BY THE ENGINEER, WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR "MANHOLE TO BE ADJUSTED (SPECIAL)".

TREATMENT OF EXISTING MANHOLE UNDER PROPOSED CONCRETE WALL IN THE MEDIAN

REVISIONS	
NAME	DATE

EDENS EXPRESSWAY
EXPRESSWAY RECONSTRUCTION
MANHOLE TO BE ADJUSTED (SPECIAL)
(TREATMENT OF EXISTING MANHOLE IN THE MEDIAN - DETAIL "C")

SCALE: 1/4" = 1'-0"
DATE: _____
DRAWN BY: _____
CHECKED BY: _____



NOTES:

a) THE CONTRACTOR SHALL REMOVE A PART OF THE EXISTING CATCH BASIN'S WALL TO PROVIDE SPACE FOR THE CONSTRUCTION OF A PROPOSED CATCH BASIN TYPE A, 4' DIA. WITH FLAT TOP SLAB. IF DURING THE CONSTRUCTION THE CONTRACTOR ASCERTAINS THAT SOME EXISTING STORM SEWER PIPES, CONNECTING ABANDONED CATCH BASIN WITH EXISTING MANHOLE, ARE LOCATED IN THE CONSTRUCTION AREA AND ARE IN THE WAY, THE CONTRACTOR SHALL REMOVE THE NECESSARY PORTION OF THE EXISTING PIPE, PLUG THE OPENING OF THE REMAINING STORM SEWER PIPE AND THE OUTLET OPENING IN THE EXISTING MANHOLE, USING BRICKS AND MORTAR. AFTER THE PROPOSED CATCH BASIN IS CONSTRUCTED THE CONTRACTOR SHALL FILL THE SPACE BETWEEN THE NEW STRUCTURE AND REMAINING ABANDONED CATCH BASIN AND UNDISTURBED EXISTING GROUND MATERIAL RESPECTIVELY WITH COMPACTED SAND. ALL THE WORKS MENTIONED ABOVE SHALL BE DONE AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER. THE PARTIAL REMOVAL OF THE EXISTING CATCH BASIN'S WALL, REMOVAL OF THE EXISTING STORM SEWER PIPES, PLUGGING, SAND FILL WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR "FILLING EXISTING CATCH BASIN (SPECIAL)".

b) LOCATIONS OF PROPOSED CATCH BASIN TYPE A, 4' DIA. WITH FLAT TOP AND FRAME & GRATE TYPE VB AS SHOWN ON THE PLANS.

NOTES:

1) LOCATIONS OF PROPOSED CATCH BASIN TYPE A, 4' DIA. WITH FLAT TOP AND FRAME & GRATE TYPE VB AS SHOWN ON THE PLANS. SEE ALSO DETAIL "G".

- I.) PROPOSED CATCH BASIN TYPE A, 4' DIA. WITH FLAT SLAB TOP, FRAME & GRATE AND BARRIER BOX (TYPE-VB) DETAIL E-2 (TYPICAL)
- II.) FILLING EXISTING CATCH BASIN (SPECIAL) DETAIL "D" (TYPICAL) AT PAVEMENT SAG LOCATION (PARTIAL REMOVAL OF CATCH BASIN)

- I.) PROPOSED CATCH BASIN TYPE A, 4' DIA. WITH FLAT SLAB TOP, FRAME & GRATE TYPE VB DETAIL "E" (TYPICAL)
- T.) FILLING EXISTING CATCH BASIN (SPECIAL) DETAIL "D" (TYPICAL) (PARTIAL REMOVAL OF CATCH BASIN)

NOTE FOR DETAIL "E" & DETAIL "E-2"

PRECAST REINFORCED CONCRETE FLAT SLAB TOP SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 505 OF THE STANDARD SPECIFICATIONS AND STATE STANDARD 2354. IN CASES WHERE PRECAST REINFORCED CONCRETE FLAT SLAB TOP FOR CATCH BASINS AT BARRIER WALL, AS SHOWN ON THE PLAN, REQUIRE OPENING OF 2'-2 3/4" DIA., STANDARD 2354 SHALL ALSO BE UTILIZED, CHANGING THE OPENING FROM 2' TO 2'-2 3/4" AND ADJUSTING THE LOCATIONS OF THE REINFORCEMENT BARS AFFECTED, ALL AT NO EXTRA COST, AND AS DIRECTED BY THE ENGINEER.

NOTE FOR CATCH BASIN TYPE-C (SYMBOL E-1 & E-3)

THE LOCATION OF CATCH BASIN TYPE D, 3 FT. DIAMETER, IS SIMILAR TO THE LOCATION OF CATCH BASIN TYPE-A, 4 FT. DIAMETER (DETAIL E AND E-2) WITH THE EXCEPTION THAT THE DISTANCE FROM THE FLOW LINE AT EDGE OF WALL TO THE C OF PROPOSED CATCH BASIN, TYPE-D IS 15FT.

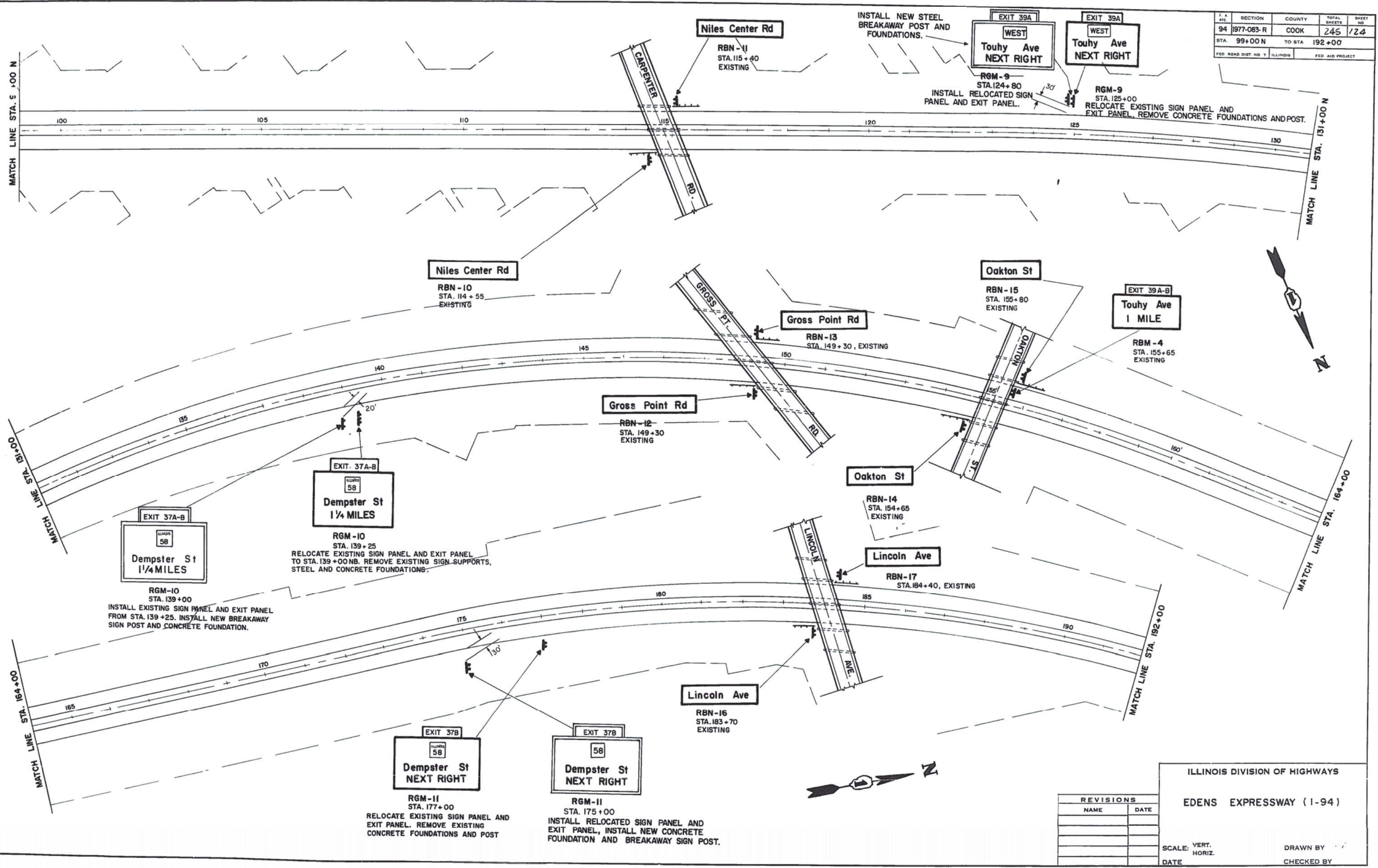
HALF OF DETAIL "D" (TYPICAL)
 HALF OF DETAIL "E-2" (TYPICAL)

HALF OF DETAIL "D" (TYPICAL)
 HALF OF DETAIL "E" (TYPICAL)

REVISIONS	
NAME	DATE
RSM	12-09-78

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EDENS EXPRESSWAY
 PROPOSED CATCH BASIN TYPE-D (SYMBOL E-1 & E-3)
 EXISTING CATCH BASIN TO BE FILLED (SPECIAL) (DETAIL "D")
 PROPOSED CATCH BASIN TYPE A, 4' DIA. WITH FLAT SLAB TOP AND FRAME AND GRATE TYPE VB (DETAILS "E" AND "E-2")
 SCALE: VERT. 1"=4'-0" HORIZ. 1"=10'-0"
 DATE: 08/31/77 DRAWN BY: A. ST. CHECKED BY: []

P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1977-083-R	COOK	245	124
STA. 99+00 N	TO STA. 192+00			
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
EDENS EXPRESSWAY (I-94)

SCALE: VERT. _____
 HORIZ. _____

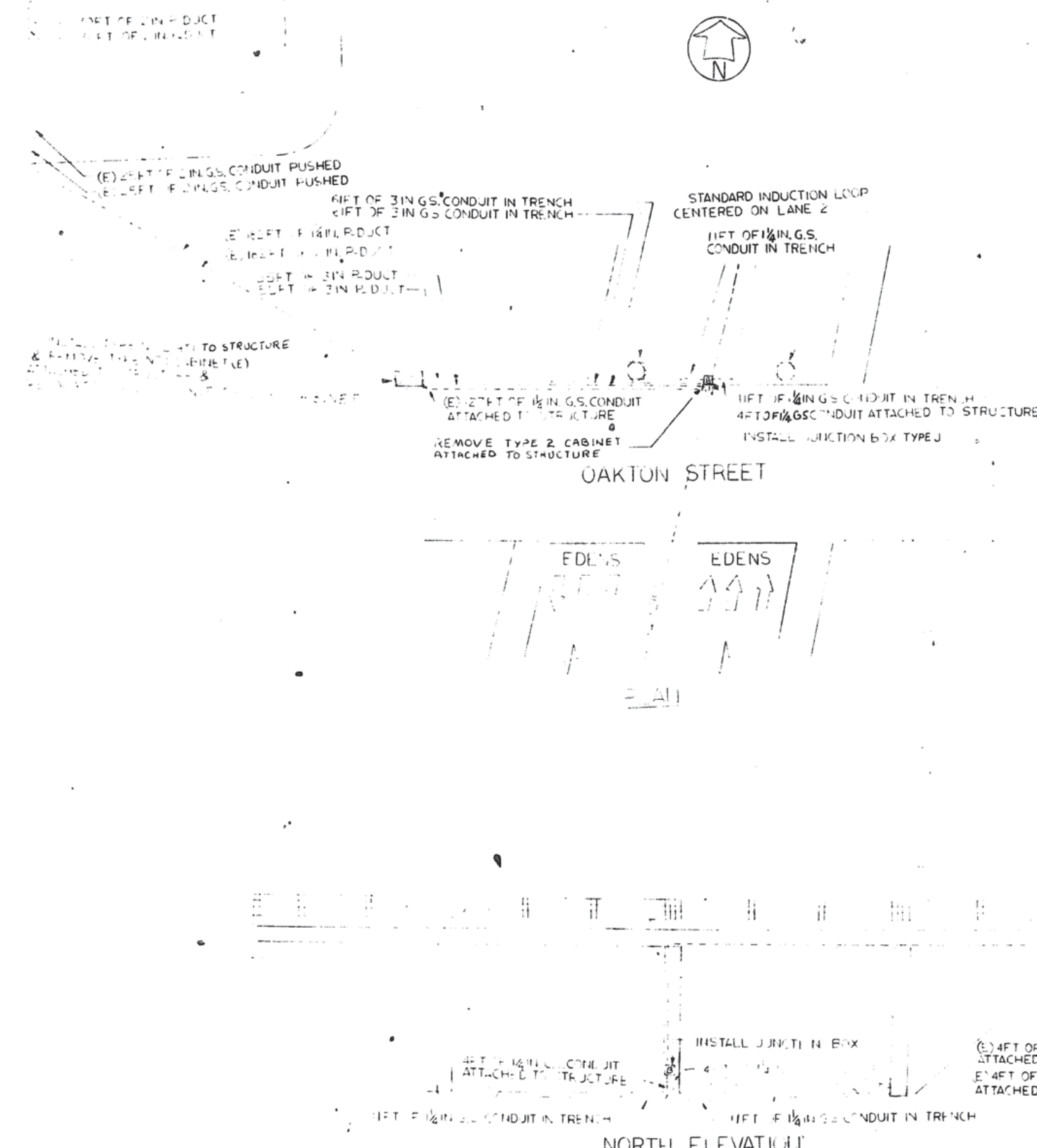
DATE _____ DRAWN BY _____
 CHECKED BY _____

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-94	7083-R	COOK	245	169
SHEET NO.		PROJECT NO.		PROJECT
IF ROAD DIST. NO.		ILLINOIS		

REVISIONS

4/8

A



SCHEDULE OF QUANTITIES

320	320	2946	138	2	2	110	78	2	122
2	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1

- 320 SQ. YD. BITUMINOUS CONC. SURFACE REPAIR & REPLACEMENT
- 2 LIN. FT. G.S. CONDUIT PUSHED, 2 IN.
- 3 LIN. FT. G.S. CONDUIT PUSHED, 3 IN.
- 1 LIN. FT. G.S. CONDUIT ATTACHED TO STRUCTURE, 1-1/4 IN.
- 1 LIN. FT. G.S. CONDUIT ATTACHED TO STRUCTURE, 2 IN.
- 1 LIN. FT. ELECTRICAL CABLE IN CONDUIT, NO. 6, 2/c
- 1 LIN. FT. ELECTRICAL CABLE IN CONDUIT, NO. 10, 2/c
- 1 LIN. FT. ELECTRICAL CABLE IN CONDUIT, NO. 14, 2/c
- 1 LIN. FT. ELECTRICAL CABLE IN CONDUIT, NO. 18, 2/c
- 1 LIN. FT. ELECTRICAL CABLE IN CONDUIT, NO. 22, 2/c
- 1 LIN. FT. ELECTRICAL CABLE IN CONDUIT, NO. 24, 2/c
- 1 EACH SERVICE INSTALLATION, TYPE C
- 1 EACH CONCRETE FOUNDATION, TYPE A
- 1 EACH CONCRETE FOUNDATION, TYPE B
- 1 EACH HANDHOLE
- 1 EACH HEAVY DUTY HANDHOLE
- 138 LIN. FT. TRENCH AND BACKFILL
- 1 EACH TONE EQUIPMENT 3 FREQUENCY TRANSMITTER
- 2 EACH TONE EQUIPMENT 3 FREQUENCY MINI. TRANSMITTER
- 2 EACH TONE EQUIPMENT 3 FREQUENCY RECEIVER
- 1 EACH TONE EQUIPMENT POWER SUPPLY
- 1 EACH TONE EQUIPMENT MOUNTING FRAME
- 1 EACH TONE EQUIPMENT MOUNTING RACK ENCLOSURE
- 1 EACH INDUCTION LOOP DETECTOR POWER SUPPLY
- 1 EACH INDUCTION LOOP DETECTOR SENSITIVE UNIT
- 1 EACH DIGITAL LOOP DETECTOR SENSITIVE UNIT (2 CHANNEL)
- 1 EACH DIGITAL LOOP DETECTOR SENSITIVE UNIT (4 CHANNEL)
- 1 LIN. FT. POLYETHYLENE DUCT, 1-1/2 IN.
- 1 LIN. FT. POLYETHYLENE DUCT, 2 IN.
- 110 LIN. FT. POLYETHYLENE DUCT, 3 IN.
- 1 EACH CABINET HOUSING EQUIP., E.S.P. 3
- 1 EACH CABINET HOUSING EQUIP., PED. MOUNTED, E.S.P. 1
- 1 EACH CABINET HOUSING EQUIP., PED. MOUNTED, E.S.P. 2
- 1 EACH CABINET HOUSING EQUIP., POLE MOUNTED, E.S.P. 1
- 1 EACH CABINET HOUSING EQUIP., POLE MOUNTED, E.S.P. 2
- 1 EACH CABINET HOUSING EQUIP., ATTACHED TO STRUCTURE, E.S.P. 1
- 1 EACH CABINET HOUSING EQUIP., ATTACHED TO STRUCTURE, E.S.P. 2
- 1 EACH INDUCTION LOOP
- 78 CU. YD. REMOVE AND REPLACE PORTLAND CEMENT CONCRETE
- 1 EACH FLASHING BEACON AND FLASHER CONTROLLER
- 1 EACH STEP-DOWN TRANSFORMER
- 1 EACH TRAFFIC CONTROL SIGNAL HEAD AND PEDestal
- 1 EACH CABINET HOUSING EQUIPMENT RELOCATION
- 2 EACH CABINET HOUSING EQUIPMENT REMOVAL
- 1 EACH UPRIGHT PEDESTAL SERVICE INSTALLATION
- 122 LIN. FT. G.S. CONDUIT IN TRENCH 3 IN.
- 1 EACH JUNCTION BOX TYPE J

LEGEND

- INDUCTION LOOP
- CABINET
- JUNCTION BOX
- PULL POINT
- SERVICE INSTALLATION
- ✕ HANDHOLE
- ⊗ HEAVY DUTY HANDHOLE
- - - POLYETHYLENE DUCT
- CONDUIT
- ~ FENCE
- GUARD RAIL
- FLASHER
- METERING SIGNAL LIGHT
- EXISTING FACILITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

OAKTON STREET INSTALLATION

SECTION	TOTAL SHEETS	SHEET NO.				
7 083-R						
ROUTE NO.	COUNTY	SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY
	COOK	1" = 10'	7/8			

Note: INSTALL EXISTING SIGNALS AND SIGNAGE AS SHOWN ON SEPARATE SHEETS.