BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-B-8 3-F-8	COOK	38	1
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

LEAVITT STREET GRADE SEPARATION

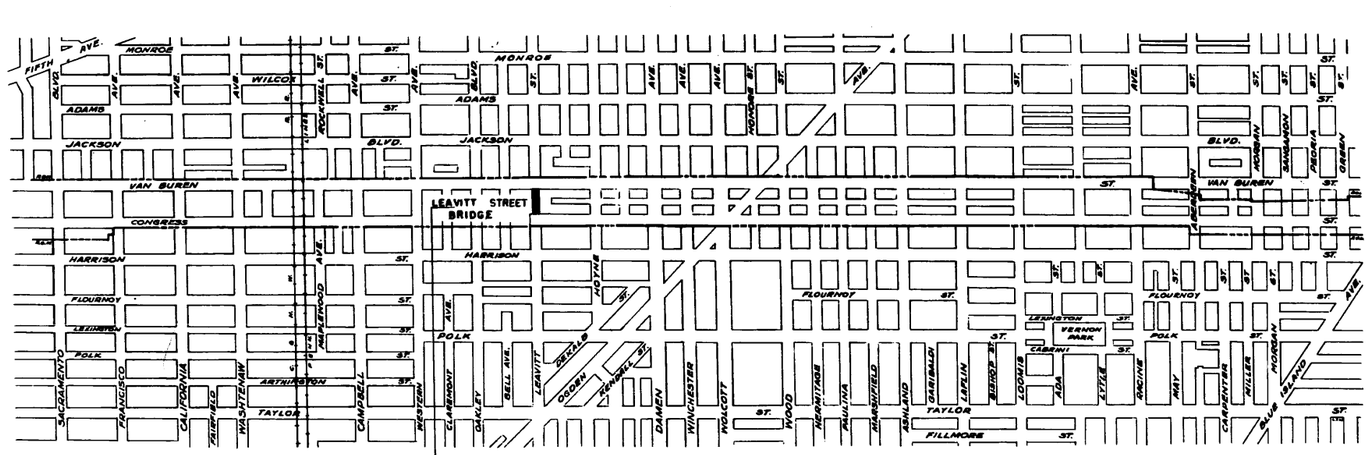
COOK COUNTY

CONGRESS STREET EXPRESSWAY

F. A. ROUTE 131 SECTION 3-B-8 & 3-F-8

PROJECT U.I.261(71)

INDEX OF SHEETS



SECTION 3-B-8 INCLUDES THE CONSTRUCTION OF A SEWER SIPHON AND A WF-BEAM GRADE SEPARATION BRIDGE AND PAVED APPROACHES (ON LEAVITT STREET OVER CONGRESS ST. EXPRESSWAY), SPANS 80'-0½", 92'-11" AND 84'-10½" AT STA. 258+89.09 (REFERENCE LINE), AT THE INTERSECTION OF LEAVITT ST. & CONGRESS ST. EXPRESSWAY WITH THE EXCEPTION OF FURNISHING AND FABRICATING STRUCTURAL STEEL, FURNISHING AND APPLYING SHOP COAT OF PAINT AND DELIVERY OF THE STRUCTURAL STEEL AS SPECIFIED IN NOTE BELOW.

SECTION 3-F-8 INCLUDES FURNISHING AND FABRICATING STRUCTURAL STEEL, FURNISHING AND APPLYING SHOP COAT OF PAINT AND DELIVERY OF THE STRUCTURAL STEEL AS SPECIFIED IN NOTE BELOW FOR A WF BEAM GRADE SEPARATION BRIDGE (ON LEAVITT STREET OVER CONGRESS STREET EXPRESSWAY) SPANS 80'-0½", 92'-11" AND 84'-10½" AT STA. 258+89.09 (REFERENCE LINE) AT THE INTERSECTION OF LEAVITT STREET AND CONGRESS STREET EXPRESSWAY.

NOTE:
STRUCTURAL STEEL SHALL BE DELIVERED F.O.B. RAILWAY SIDING AT KINZIE AND MORGAN STREETS BY THE CONTRACTOR FOR SECTION 3-F-8, EXCEPT THAT DELIVERY MAY BE MADE F.O.B. SITE BY TRUCK IF SUITABLE ARRANGEMENTS ARE MADE WITH THE CONTRACTOR FOR SECTION 3-B-8.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED 3-19-53
P. Stuthill
DISTRICT ENGINEER

EXAMINED V-11 1953
H. Case
DIVISION OF MAINTENANCE AND CONTRACTS

PASSED V-11 1953
E. L. Hinrichs
ENGINEER OF DESIGN

APPROVED V-11 1953
F. N. Barker
CHIEF HIGHWAY ENGINEER

APPROVED V-11 1953
E. A. Roeseltine
DIRECTOR

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL DATE [redacted]
DISTRICT ENGINEER.

APPROVED DATE [redacted]
DIVISION ENGINEER

OSR 4-8-53

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 131	3-B-8 3-F-8	COOK	38	2
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.L.261(71)		

SUMMARY OF QUANTITIES
SECTION 3-B-8 & 3-F-8

QUANTITIES FOR SECTION 3-B-8

ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU.YD.	2,551
REINFORCEMENT BARS	LBS.	279,419
STRUCTURAL STEEL - ERECTION	LBS.	893,623
METAL HANDRAIL	LIN.FT.	686
NAME PLATES	EACH	2
SPECIAL EXCAVATION	CU.YD.	20,943
CLASS A EXCAVATION FOR STRUCTURES	CU.YD.	2680
FURNISHING METAL PILE SHELLS	LIN.FT.	17928
DRIVING & FILLING SHELLS	LIN.FT.	17,928
ASBESTOS CEMENT CONDUIT	LIN.FT.	1,540
STEEL CONDUIT	LIN.FT.	194
PIPE UNDERDRAINS 8"	LIN.FT.	332
P.C.C. PAVEMENT - 8" UNIFORM	SQ.YD.	2,525
P.C.C. SIDEWALK - 5" UNIFORM	SQ.FT.	2,433
P.C.C. BASE COURSE - 9" UNIFORM	SQ.YD.	908
GRAVEL OR CRUSHED STONE BASE COURSE	TONS	17
BITUMINOUS MATERIALS (PRIME COAT)	GAL.	284
BITUMINOUS CONCRETE BINDER COURSE	TONS	144
BITUMINOUS CONCRETE SURFACE COURSE - FINE DENSE GRADED AGGREGATE TYPE (SUB - CLASS I-II)	TONS	146
CONCRETE CURB (TYPE 4)	LIN.FT.	945
COMBINATION CONCRETE CURB & GUTTER (TYPE 3)	LIN.FT.	509
VALVE VAULTS, TYPE "A", 4' DIA. WITH TYPE 1 F. & C.L.	EACH	1
MANHOLES, TYPE "A", 3' DIA. WITH TYPE 5 F. & C.L.	EACH	6
CATCH BASINS, TYPE "A" 4' DIA. WITH TYPE II F. & G.	EACH	4
CATCH BASINS, TYPE "A" 3' DIA. WITH TYPE 1 F. & O.L.	EACH	1
INLETS, TYPE "A" WITH TYPE 1 F. & O.L.	EACH	2
FILLING EXISTING MANHOLES	EACH	1
FILLING EXISTING INLETS	EACH	5
CATCH BASINS TYPE "A", 3' DIA. WITH TYPE 5 F. & O.L.	EACH	1

ITEM	UNIT	QUANTITY
10" STORM SEWERS, TYPE 1	LIN.FT.	313
42" STORM SEWERS, TYPE 1	LIN.FT.	8
12" VITRIFIED CLAY SEWER PIPE - EXTRA STRENGTH	LIN.FT.	30
12" VITRIFIED CLAY SEWER PIPE - EXTRA STRENGTH - PERFORATED	LIN.FT.	337
54" STANDARD-STRENGTH REINFORCED CONCRETE CULVERT PIPE	LIN.FT.	58
48" STANDARD-STRENGTH REINFORCED CONCRETE CULVERT PIPE	LIN.FT.	46
36" EXTRA-STRENGTH REINFORCED CONCRETE CULVERT PIPE	LIN.FT.	676
48" REINFORCED CONCRETE RADIUS PIPE	LIN.FT.	48
CAST IRON PIPE - 12' & OVER	LBS.	17,200
CAST IRON PIPE - 3' TO 12'	LBS.	2,000
CAST IRON PIPE - UNDER 3' & FITTINGS	LBS.	63,866
BRICK BULKHEADS	EACH	6
CLASS "X" CONCRETE (SEWER SIPHON)	CU.YD.	326
SHEETING & BRACING (SEWER SIPHON)	LUMP SUM	
CLASS A EXCAVATION FOR STRUCTURES (SEWER SIPHON)	CU.YD.	4,760
MISCELLANEOUS TIMBER	F.B.M.	385
MISCELLANEOUS STEEL	LBS.	1,271
MISCELLANEOUS IRON CASTINGS	LBS.	2,630
POROUS GRANULAR BACKFILL	CU.YD.	414
TRENCH BACKFILL	CU.YD.	2,950
DETOUR SIDEWALK	SQ.FT.	2,225
TEMPORARY SHEETING & BRACING	LUMP SUM	
GUARD FENCE	LIN.FT.	847
LIMESTONE PYLONS	EACH	4
LONGITUDINAL CURB EXPANSION JOINTS	SQ.FT.	201
POROUS GRANULAR BACKFILL (SEWER SIPHON)	CU.YD.	682
PUMPING	MONTHS	12
TEST PILES	EACH	4

QUANTITY FOR SECTION 3-F-8

STRUCTURAL STEEL - FABRICATION	LBS.	893,623

GENERAL NOTES

THE PROVISIONS OF THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION OF THE STATE OF ILLINOIS SHALL APPLY TO ALL MATERIALS & CONSTRUCTION UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIAL PROVISIONS.

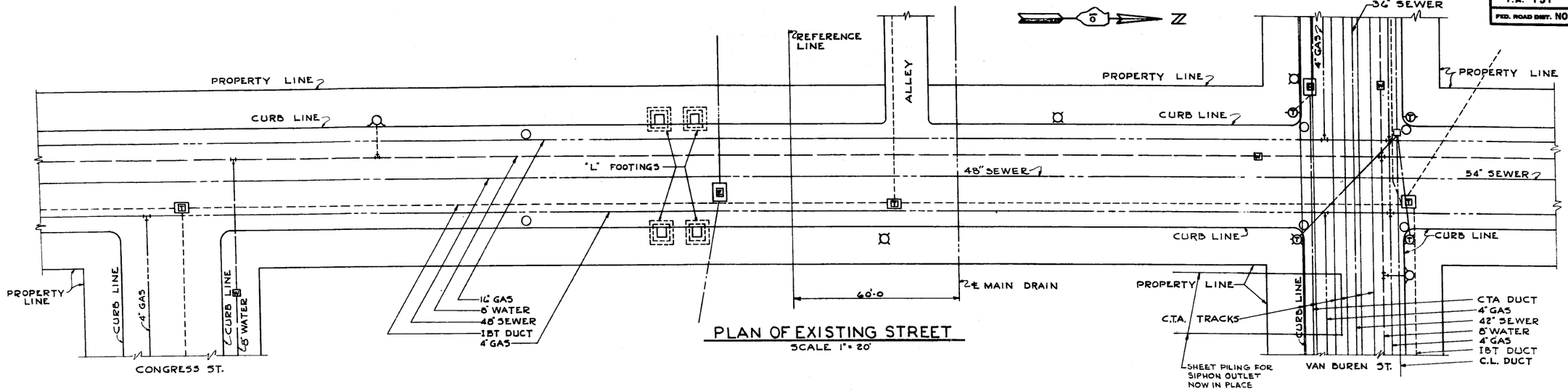
SEE FOLLOWING SHEETS FOR ADDITIONAL NOTES:

SHEET NO. 6. STAGE CONSTRUCTION OF APPROACHES
7. CONCRETE & REINFORCEMENT
10. DESIGN DATA
13. BRIDGE DECK NOTES
14. STRUCTURAL STEEL, RIVETING, WELDING & PAINTING
15. BEARING, SPLICES & EXPANSION JOINTS
23. CONDUITS & INSERTS
28. SIPHON

EXAMINED BY BUREAU OF DESIGN _____ DATE 3/19/53
EXAMINED BY BUREAU OF CONSTRUCTION _____ DATE _____
EXAMINED BY EXPRESSWAY ENGINEER George P. Jackson DATE 3/20/53
_____ DATE _____
ENTIRE SECTION INSPECTED & APPROVED AS TO POLICY DISTRICT ENGINEER J.P. Justhill DATE 3-19-53
APPROVED BY ENGINEER OF BRIDGE & TRAFFIC STRUCTURES _____ DATE _____

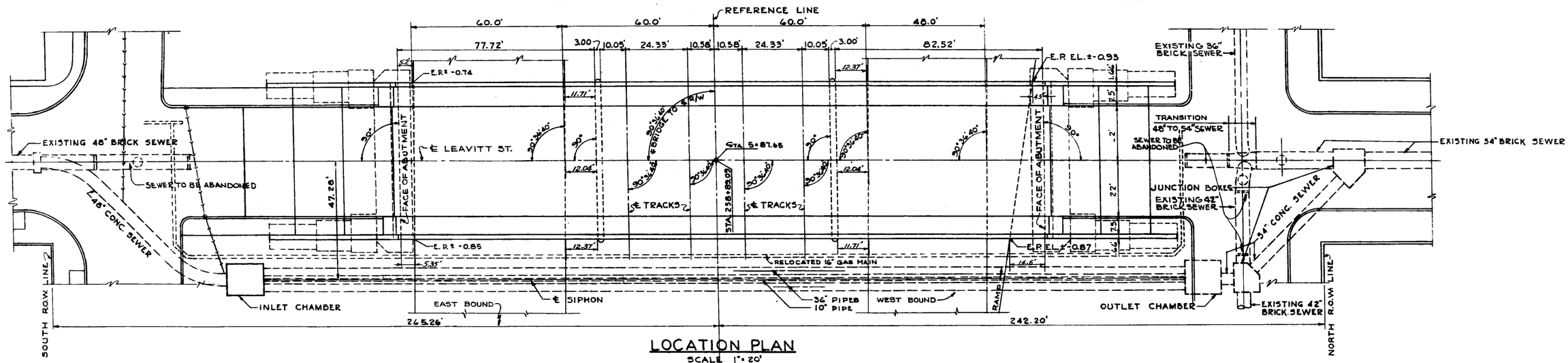
CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8 3-F-8
QUANTITIES & GENERAL NOTES
SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8	COOK	38	3
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.L 261(71)		



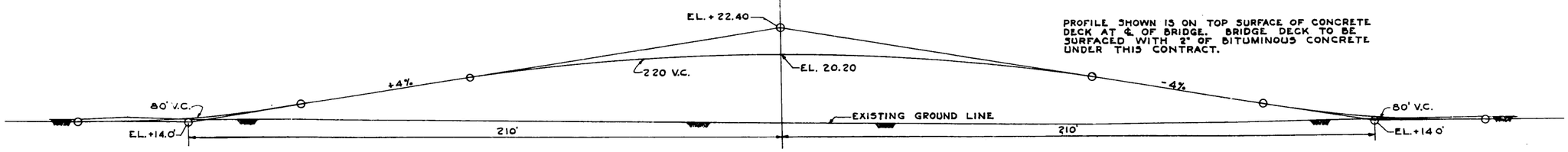
PLAN OF EXISTING STREET

SCALE 1"= 20'



LOCATION PLAN

SCALE 1"= 20'



PROFILE SHOWN IS ON TOP SURFACE OF CONCRETE DECK AT ℄ OF BRIDGE. BRIDGE DECK TO BE SURFACED WITH 2" OF BITUMINOUS CONCRETE UNDER THIS CONTRACT.

PROFILE

SCALE HORIZ. 1"= 20', VERT. 1"= 5'

Notes

FOR PAVEMENT AND SEWER DETAILS SEE SHS NO. 4 & 6
FOR EXCAVATION AND BACKFILL PAY LIMITS AND TEMPORARY CAR TRACK LOCATION SEE SH. Nº 5 & 6
THE LOCATION AND SIZES OF THE CONDUITS, PIPES, MANHOLES AND OTHER SUB-SURFACE UTILITY EQUIPMENT SHOWN ON THIS DRAWING ARE BASED ON THE BEST INFORMATION OBTAINABLE AND ARE BELIEVED TO BE ACCURATE BUT CANNOT BE GUARANTEED. ADDITIONAL ABANDONED UTILITIES MAY BE ENCOUNTERED.
FOR PROCEDURE IN HANDLING THESE ABANDONED UTILITIES SEE SPECIAL PROVISIONS.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY _____
DRAWN BY A.K. MAGLENNIS
CHECKED O. NELSON
IN CHARGE C. Heide

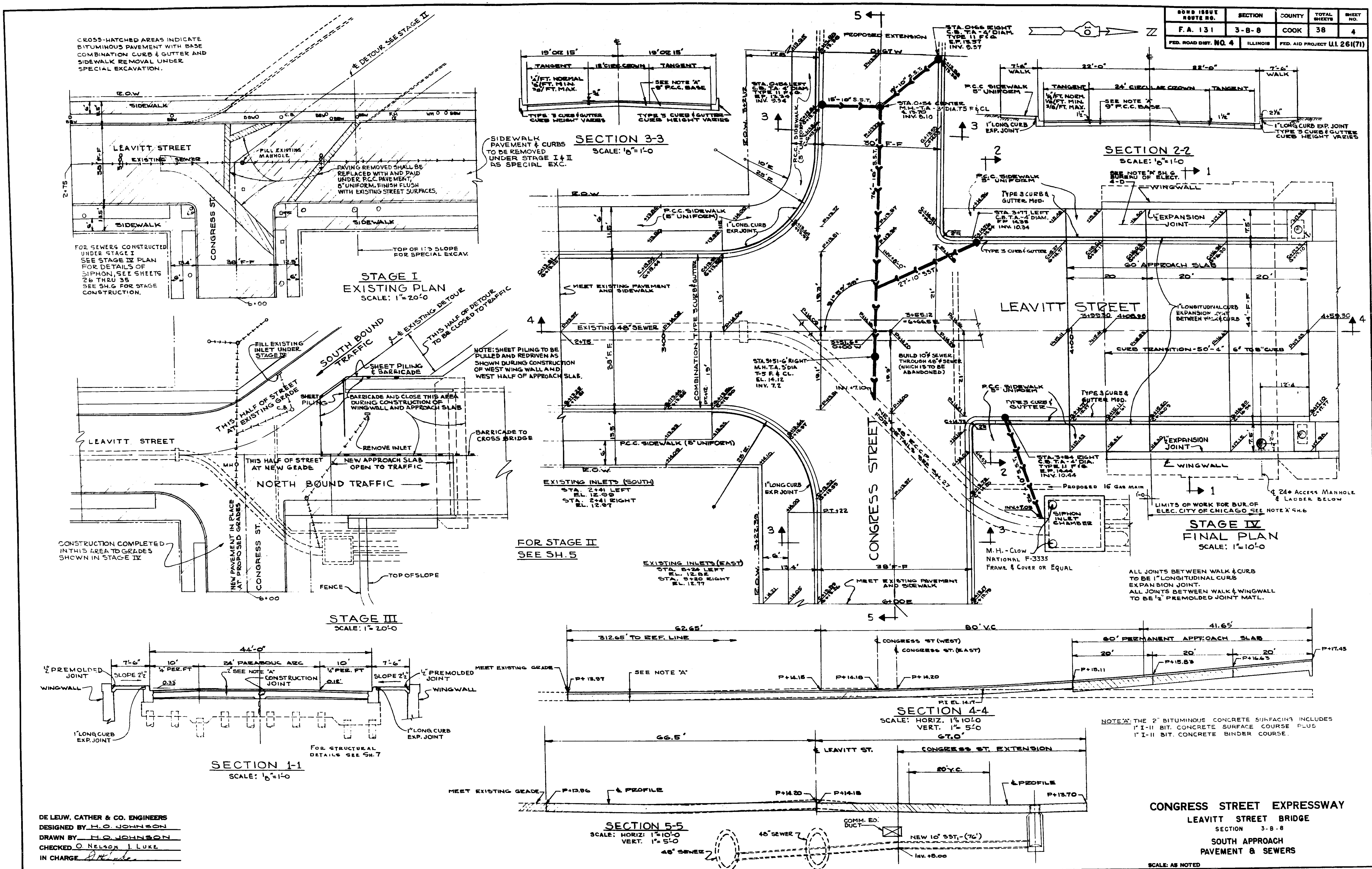
CONGRESS STREET EXPRESSWAY

LEAVITT STREET BRIDGE
SECTION 3-B-8

LOCATION PLAN & PROFILE

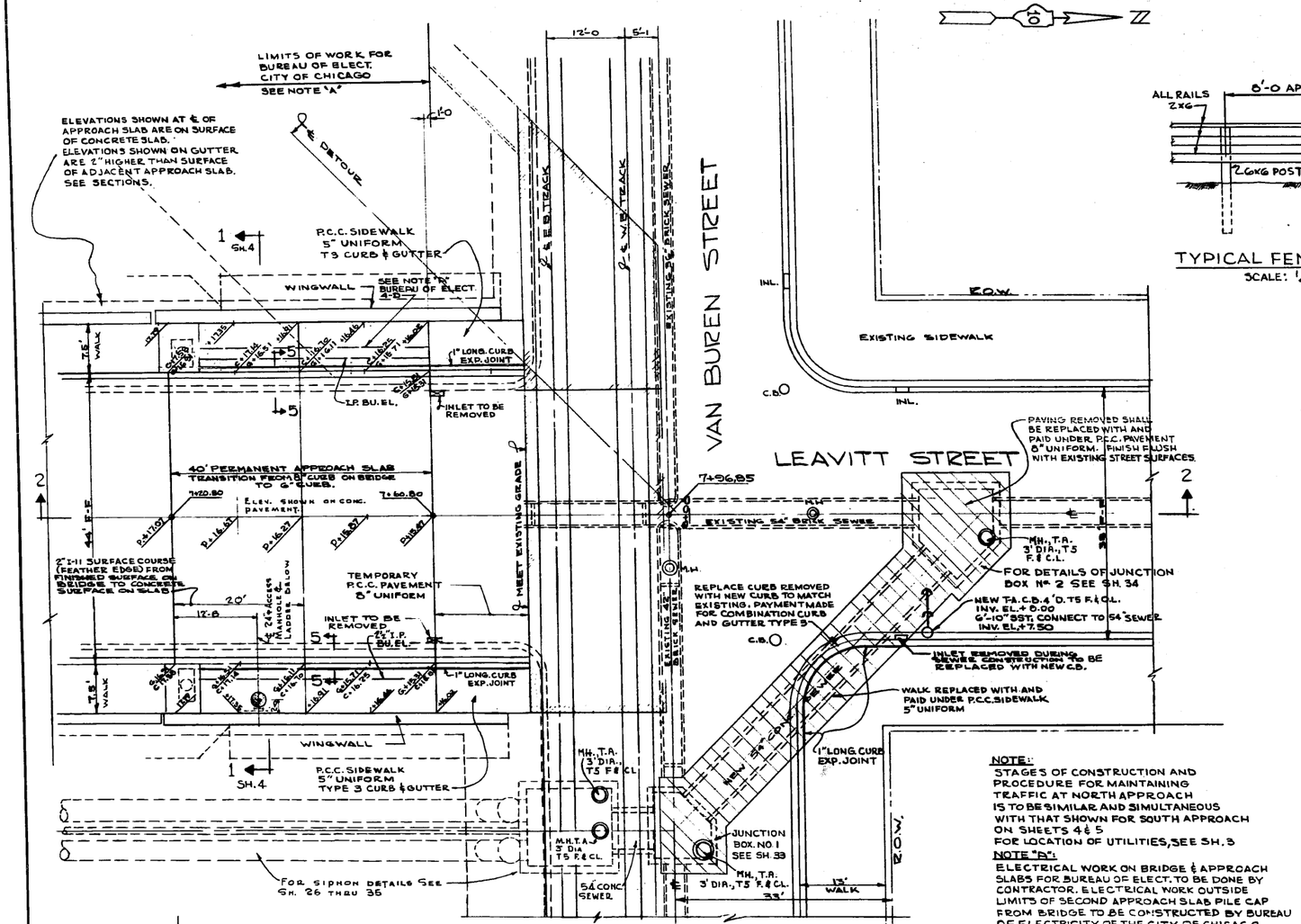
SCALE: AS NOTED

Revised 6-10-53, H.F.H.

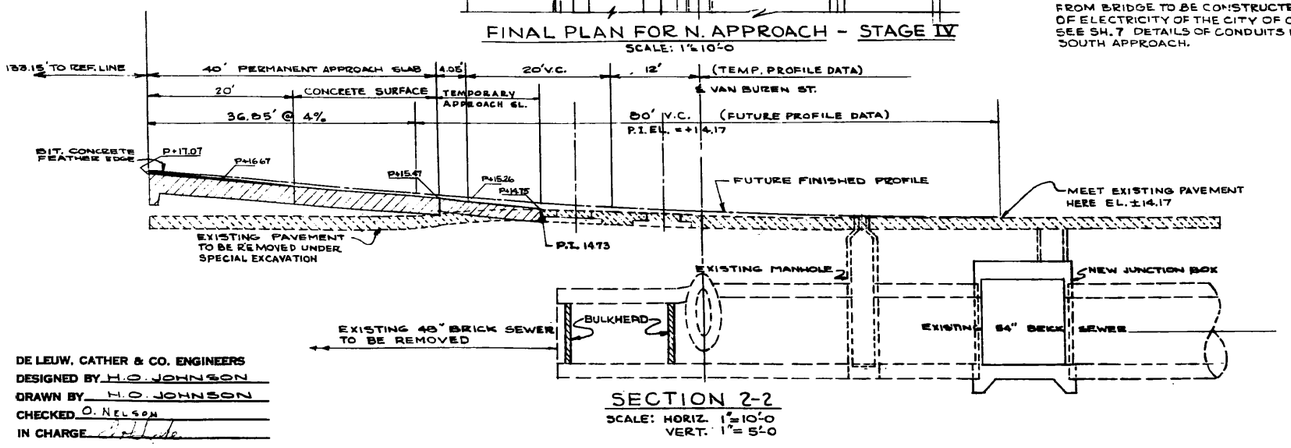


BOND ISSUE ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO.
F.A. 131 | 3-B-8 | COOK | 38 | 4
FED. ROAD DIST. NO. 4 | ILLINOIS | FED. AID PROJECT U.I. 261(71)
CROSS-HATCHED AREAS INDICATE BITUMINOUS PAVEMENT WITH BASE COMBINATION CURB & GUTTER AND SIDEWALK REMOVAL UNDER SPECIAL EXCAVATION.
SIDEWALK PAVEMENT & CURBS TO BE REMOVED UNDER STAGE I & II AS SPECIAL EXC.
PAVING REMOVED SHALL BE REPLACED WITH AND PAID UNDER P.C.C. PAVEMENT, 8" UNIFORM. FINISH FLUSH WITH EXISTING STREET SURFACES.
FILL EXISTING MANHOLE
LEAVITT STREET
EXISTING SEWER
SIDEWALK
CONGRESS ST.
TOP OF 1:3 SLOPE FOR SPECIAL EXCAV.
FOR SEWERS CONSTRUCTED UNDER STAGE I SEE STAGE IV PLAN FOR DETAILS OF SIPHON, SEE SHEETS 26 THRU 35 SEE SH.6 FOR STAGE CONSTRUCTION.
STAGE I
EXISTING PLAN
SCALE: 1"=20'-0
SECTION 3-3
SCALE: 1/8"=1'-0
TYPE 3 CURB & GUTTER CURB HEIGHT VARIES
SEE NOTE "A" 8" P.C.C. BASE
SECTION 2-2
SCALE: 1/8"=1'-0
1" LONG CURB EXP. JOINT
SOUTH BOUND TRAFFIC
FILL EXISTING INLET UNDER STAGE IV
SHEET PILING & BARRICADE
NOTE: SHEET PILING TO BE PULLED AND REDRIVEN AS SHOWN DURING CONSTRUCTION OF WEST WING WALL AND WEST HALF OF APPROACH SLAB.
BARRICADE AND CLOSE THIS AREA DURING CONSTRUCTION OF WINGWALL AND APPROACH SLAB
REMOVE INLET
BARRICADE TO CROSS BRIDGE
THIS HALF OF STREET AT EXISTING GRADE
THIS HALF OF STREET AT NEW GRADE
NEW APPROACH SLAB OPEN TO TRAFFIC
NORTH BOUND TRAFFIC
CONSTRUCTION COMPLETED IN THIS AREA TO GRADES SHOWN IN STAGE IV
NEW PAVEMENT IN PLACE AT PROPOSED GRADES
FENCE
TOP OF SLOPE
STAGE III
SCALE: 1"=20'-0
FOR STAGE II SEE SH. 5
EXISTING INLETS (SOUTH) STA. 2+41 LEFT EL. 12.99 STA. 2+41 RIGHT EL. 12.97
EXISTING INLETS (EAST) STA. 5+24 LEFT EL. 12.82 STA. 5+20 RIGHT EL. 12.77
EXISTING 48" SEWER
COMBINATION TYPE 3 CURB & GUTTER
P.C.C. SIDEWALK (5" UNIFORM)
MEET EXISTING PAVEMENT AND SIDEWALK
BUILD 10" SEWER THROUGH 48" SEWER (WHICH IS TO BE ABANDONED)
CONGRESS STREET
LEAVITT STREET
60' APPROACH SLAB
CURB TRANSITION-50'-4" 6" TO 8" CURB
1" LONGITUDINAL CURB EXPANSION JOINT BETWEEN WALK & CURB
1/2" EXPANSION JOINT
WINGWALL
SIPHON INLET CHAMBER
M.H. - CLOW NATIONAL F-3335 FRAME & COVER OR EQUAL
24" ACCESS MANHOLE & LADDER BELOW
LIMITS OF WORK FOR BUR. OF ELEC. CITY OF CHICAGO SEE NOTE "A" SH. 6
STAGE IV
FINAL PLAN
SCALE: 1"=10'-0
ALL JOINTS BETWEEN WALK & CURB TO BE 1" LONGITUDINAL CURB EXPANSION JOINT.
ALL JOINTS BETWEEN WALK & WINGWALL TO BE 1/2" PREMOLDED JOINT MATL.
SECTION 1-1
SCALE: 1/8"=1'-0
FOR STRUCTURAL DETAILS SEE SH. 7
SECTION 4-4
SCALE: HORIZ. 1"=10'-0 VERT. 1"=5'-0
60' PERMANENT APPROACH SLAB
MEET EXISTING GRADE
NOTE "A": THE 2" BITUMINOUS CONCRETE SURFACING INCLUDES 1" I-11 BIT. CONCRETE SURFACE COURSE PLUS 1" I-11 BIT. CONCRETE BINDER COURSE.
SECTION 5-5
SCALE: HORIZ: 1"=10'-0 VERT. 1"=5'-0
CONGRESS ST. EXTENSION
48" SEWER
COMM. ED. DUCT
NEW 10" SST.-(76')
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY H. O. JOHNSON
DRAWN BY H. O. JOHNSON
CHECKED O. NELSON J. LUKE
IN CHARGE
CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8
SOUTH APPROACH
PAVEMENT & SEWERS
SCALE: AS NOTED

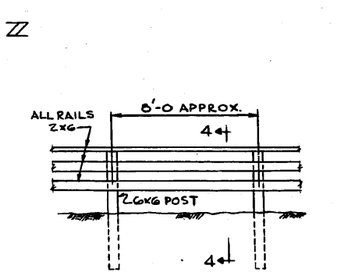
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	6
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(7I)		



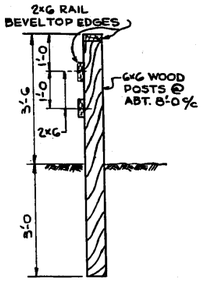
FINAL PLAN FOR N. APPROACH - STAGE IV
SCALE: 1"=10'-0



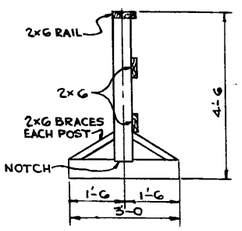
SECTION 2-2
SCALE: HORIZ. 1"=10'-0
VERT. 1"=5'-0



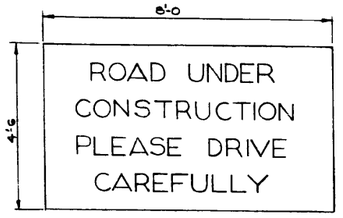
TYPICAL FENCE PANEL
SCALE: 1/4"=1'-0



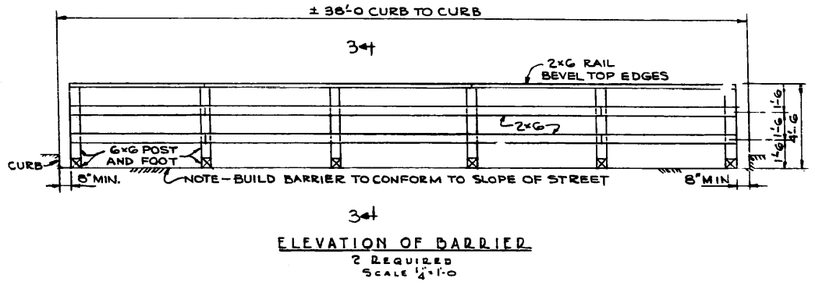
SECTION 4-4
SCALE: 1/2"=1'-0



SECTION 3-3
SCALE: 1/2"=1'-0



CONSTRUCTION SIGN
2 REQUIRED
SEE DETAILS OF CONSTRUCTION SIGN ON SH. No. 38.
LOCATE SIGN AS DIRECTED BY ENGINEER.



3 ℄
ELEVATION OF BARRIER
2 REQUIRED
SCALE 1/4"=1'-0
FOR LOCATION OF FENCE & BARRIER SEE SH. No. 6

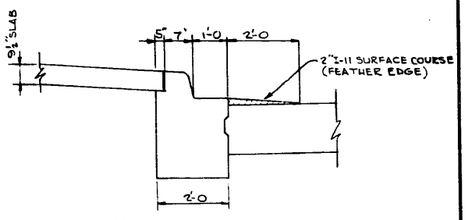
STAGE CONSTRUCTION OF APPROACHES

STAGE I
REMOVE WALKS & CURBS AS SHOWN ON LEAVITT ST. CONSTRUCT JUNCTION BOXES #1 & #2 & NEW 54" CONCRETE SEWER & REPAVE OVER SAME. CONSTRUCT OTHER SEWERS & PAVE TRACK AREA. START CONSTRUCTION OF DETOUR & SIPHON.

STAGE II
COMPLETE CONSTRUCTION OF DETOUR & SIPHON. BRIDGE CONSTRUCTION IS CARRIED TO COMPLETION EXCEPT FOR WEST HALF OF APPROACH SLABS & WEST WING WALLS.

STAGE III
REVISE CURBS & PAVE EAST HALF OF LEAVITT ST. & CONGRESS ST. TO STA. 6+00 E. DIVERT NORTH BOUND TRAFFIC FROM DETOUR TO BRIDGE & CONSTRUCT WEST WING WALLS & WEST SIDE OF BRIDGE APPROACHES. COMPLETE SEWERS IN CONGRESS ST.

STAGE IV
REMOVE INLETS AS SHOWN ON BOTH APPROACHES & CONSTRUCT CURBS & PAVE WEST SIDE OF LEAVITT ST. & CONGRESS ST. TO STA. 0+67 W.



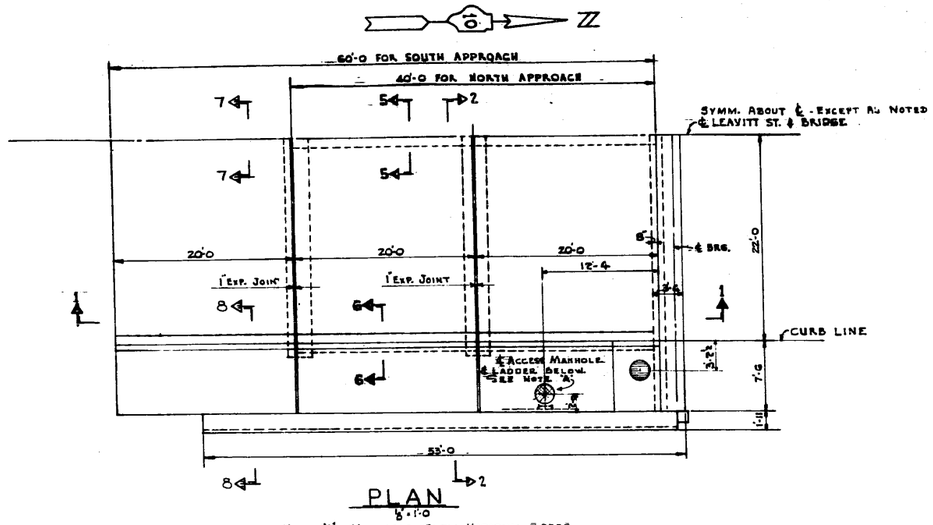
SECT. 5-5
½"=1'-0

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY H.O. JOHNSON
DRAWN BY H.O. JOHNSON
CHECKED O. NELSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8
NORTH APPROACH PAVEMENT & SEWERS

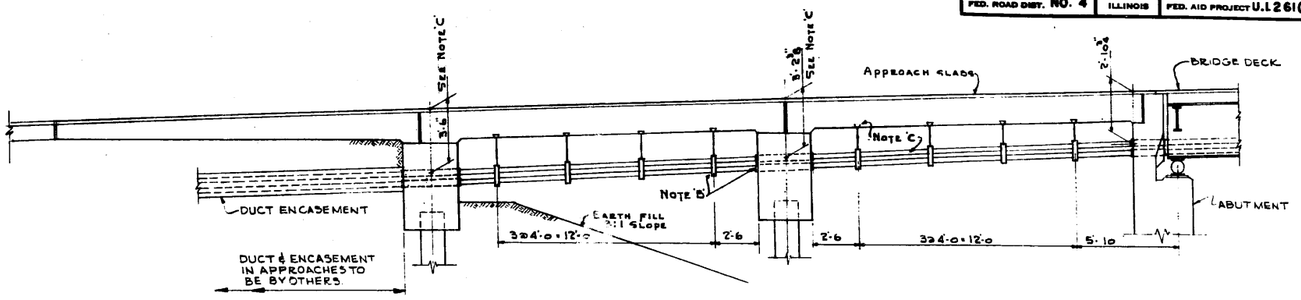
SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8	COOK	38	7
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I 261(71)		



PLAN
1/8" = 1'-0

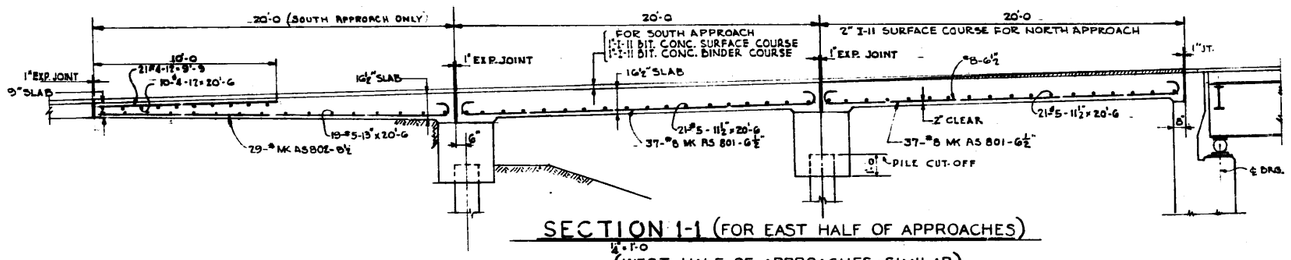
NOTE 'A' MANHOLE, CLOW NATIONAL F 3335 FRAME & COVER OR EQUAL, LOCATED IN EAST WALK OF N. & SO. BRIDGE APPROACHES.



DETAILS OF CONDUITS UNDER SOUTH APPROACH
(NORTH APPROACH SIMILAR)

NOTE 'C'
CONDUIT INSERTS IN APPROACH & WALK SLABS, SLEEVES IN BRIDGE BACKWALLS & PILE CAPS, & CONDUITS FOR BUR. OF ELECT. OF CITY OF CHICAGO FURNISHED & INSTALLED BY CONTRACTOR. SEE NOTE & DETAILS ON SH. 23

NOTE 'B'
DIMENSIONS SHOWN ARE FROM PROFILE LINE AT CROWN (TOP OF 2" BIT. SURFACING) FOR LOCATION OF COMMONWEALTH EDISON CO. DUCTS IN PIER CAPS.



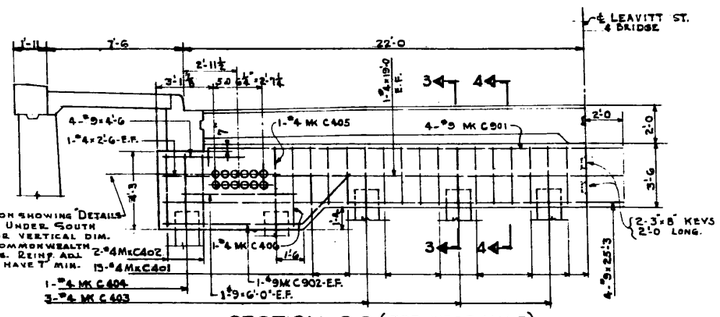
SECTION 1-1 (FOR EAST HALF OF APPROACHES)
1/4" = 1'-0
(WEST HALF OF APPROACHES - SIMILAR)

GENERAL NOTES FOR CONCRETE AND REINFORCEMENT

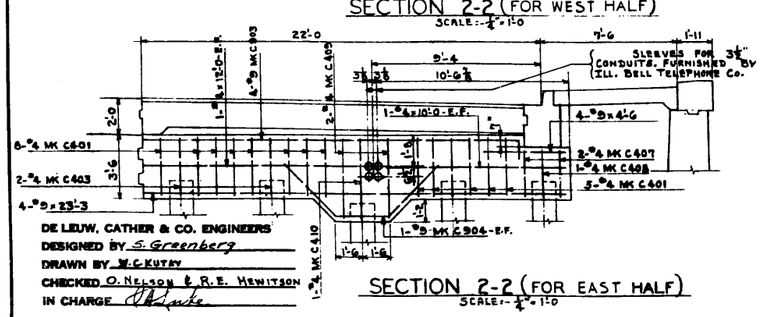
CONCRETE:
f'c = 3500 psi. ULTIMATE STRENGTH IN 28 DAYS
fc = 1000 psi. n = 10
ALL CONCRETE SHALL BE CLASS X UNLESS OTHERWISE NOTED.
CONCRETE DECKS SHALL BE POURED IN ONE COMPLETE OPERATION BETWEEN CONSTRUCTION JOINTS WHICH ARE CLEARLY SHOWN ON THE PLANS. SEE SHEET No. 24 FOR PLAN OF CONSTRUCTION JOINTS.

CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH ART. 51.18(a) OF THE STANDARD SPECIFICATIONS OF THE STATE OF ILLINOIS.
EXPOSED SURFACES ARE TO BE RUBBED IN ACCORDANCE WITH ART. 52.14 OF THE STANDARD SPECIFICATIONS.
UNLESS OTHERWISE NOTED ALL EXPOSED CORNERS SHALL BE CHAMFERED ¾".

REINFORCEMENT:
fs = 20000 psi. REINFORCING SHOWN TO BE OF INTERMEDIATE GRADE BILLET STEEL AND TO COMPLY WITH "SPECIFICATION FOR BILLET-STEEL FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A15." DEFORMATIONS, TYPE AND WEIGHTS TO CONFORM TO ASTM DESIGNATION A305.
BAR BENDING, PLACING, CLEARANCES ETC., UNLESS OTHERWISE SHOWN, SHALL BE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5th EDITION, DATED 1949, AND THE MANUAL OF STANDARD PRACTICE OF THE AMERICAN CONCRETE INSTITUTE, AS AMENDED FOR NEW-TYPE BAR ASTM A305.
ALL BARS TO BE LAPPED 24 DIAMETERS AT SPLICES UNLESS OTHERWISE SHOWN.
BAR EXTENSIONS TO BE AS DIMENSIONED OR TO SCALE.
BAR NUMBERS ARE BASED ON THE NUMBER OF ⅛ INCHES IN THE NOMINAL DIAMETER OF AN EQUIVALENT ROUND BAR.
BAR SPACING IS GIVEN IN INCHES, THUS #4 - 12 = ½" @ 12" CTR. TO CTR.

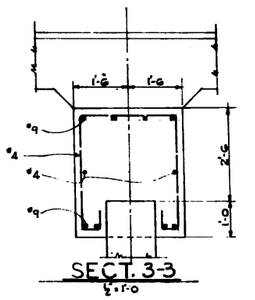


SECTION 2-2 (FOR WEST HALF)
SCALE: ¼" = 1'-0

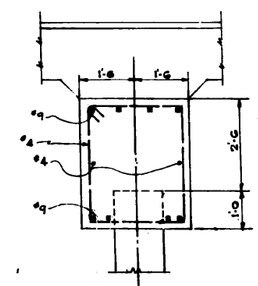


DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY S. Greenberg
DRAWN BY W.C. KUTNY
CHECKED O. NELSON & R.E. HEWITSON
IN CHARGE J.A. Lake

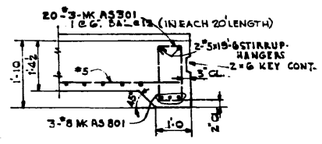
SECTION 2-2 (FOR EAST HALF)
SCALE: ¼" = 1'-0



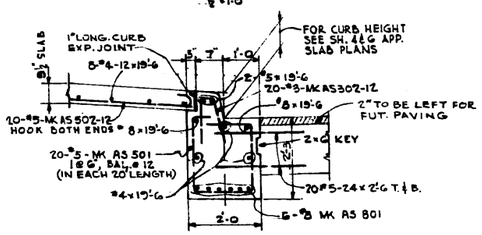
SECT. 3-3
½" = 1'-0



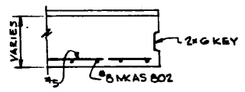
SECT. 4-4
½" = 1'-0



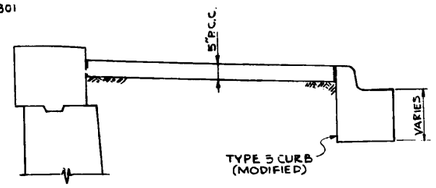
SECT. 5-5
½" = 1'-0



SECT. 6-6
½" = 1'-0



SECT. 7-7
½" = 1'-0



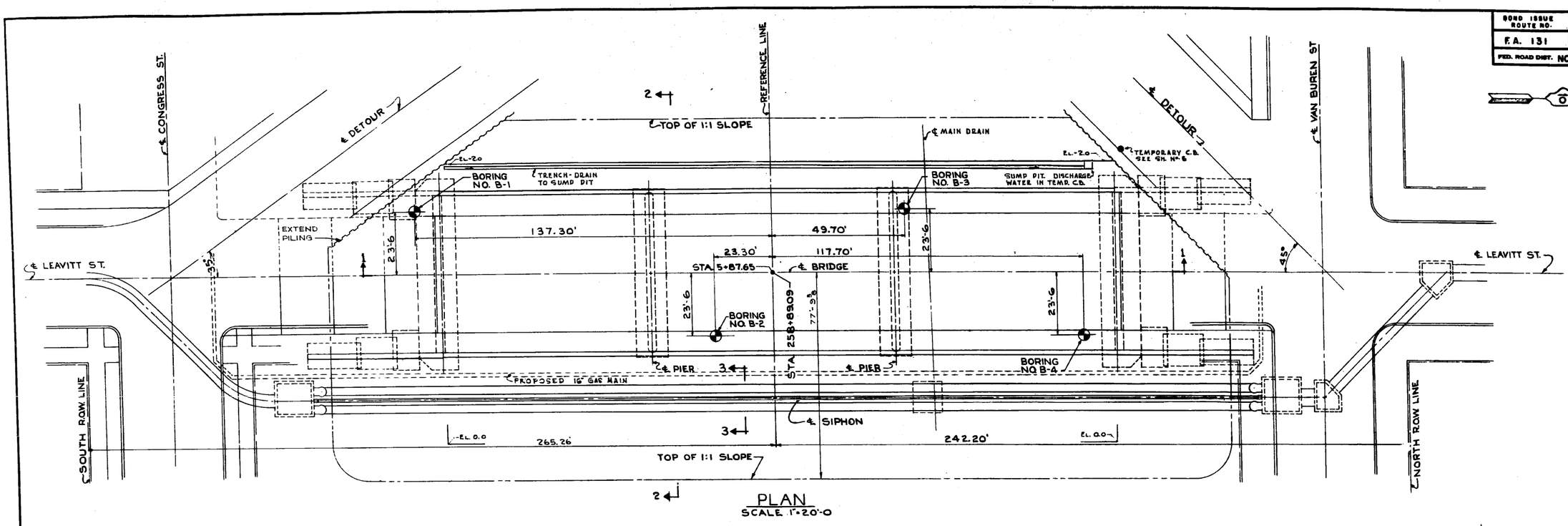
SECTION 8-8
½" = 1'-0

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8

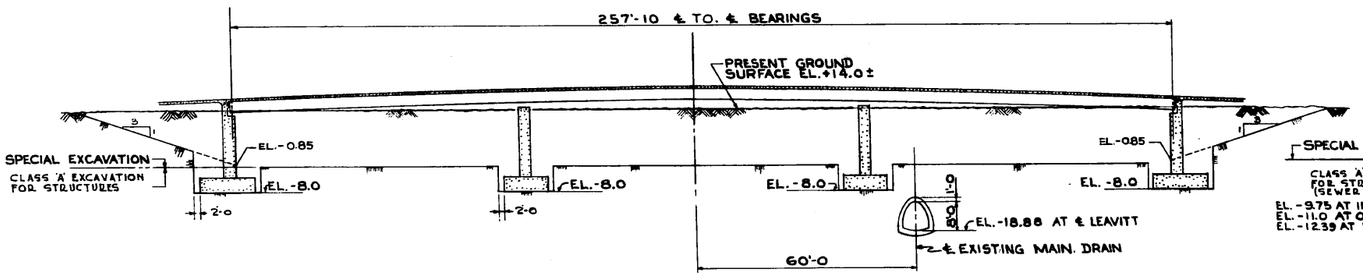
APPROACH SLAB DETAILS

SCALE: AS NOTED

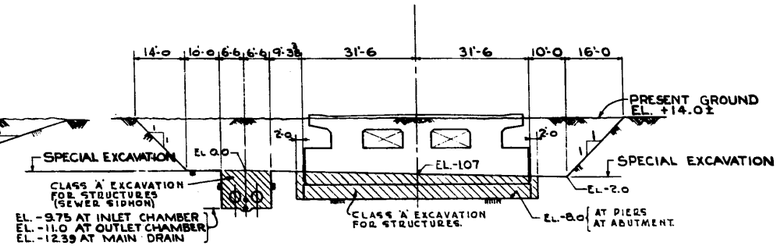
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	8
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U-I.261(71)		



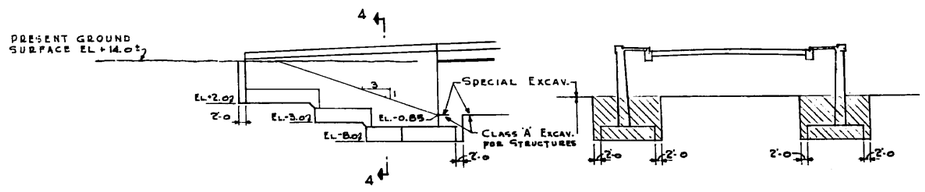
PLAN
SCALE 1"=20'-0



SECTION 1-1
SCALE 1"=20'-0



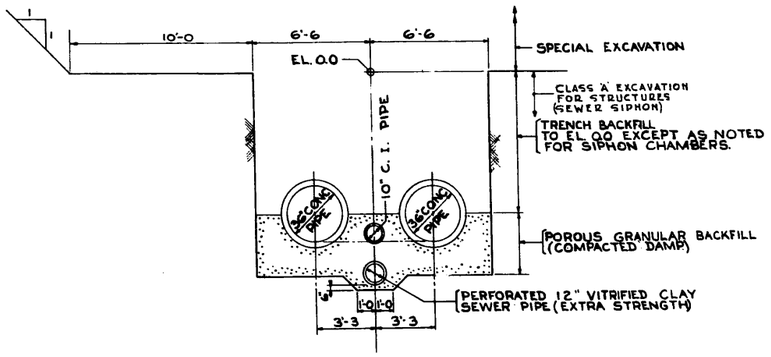
SECTION 2-2
SCALE 1"=20'-0



WINGWALL EXCAV. DIAGRAM
SCALE 1"=20'-0

SECTION 4-4

For boring data see Sh. No. 9
For details of detour see Sh. Nos. 3, 4, 5, 6 & 7
For layout and details of siphon see Sh. Nos. 26 thru 35



SECTION 3-3
SCALE ¼"=1'-0

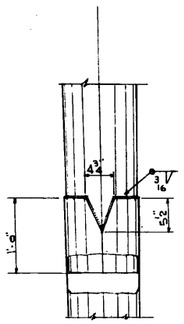
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY O. NELSON
DRAWN BY J.R. SASSAMAN
CHECKED O. NELSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8

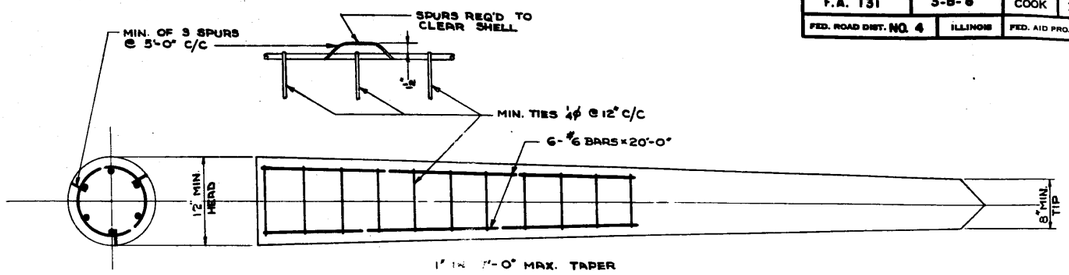
EXCAVATION & BACKFILL PAY LIMITS

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	9
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(71)		



METAL SHELL SPLICE DETAIL



DETAIL OF CAST IN PLACE PILE

PILE NOTES:-

PILES WITH A MIN. SHELL THICKNESS OF 3/8" OR GREATER IF REQUIRED FOR DRIVING CONDITIONS NEED NOT BE REINFORCED, EXCEPT PILES SUPPORTING THE APPROACH SLABS, FOR WHICH SEE NOTE "A".

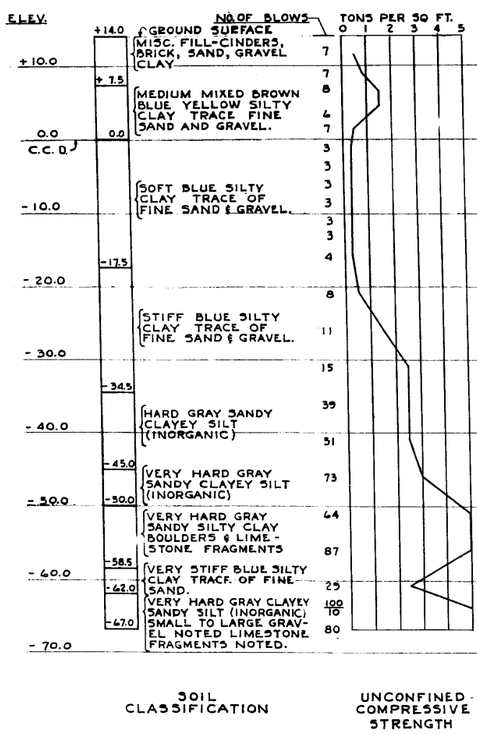
PILES DRIVEN WITH A MANDREL MAY BE OF LESS THAN 3/8" WALL THICKNESS, AND SHALL BE REINFORCED WITH 6-#6 BARS x 20'-0" LONG CAST IN THE UPPER SECTION OF THE PILE.

NOTE "A":-

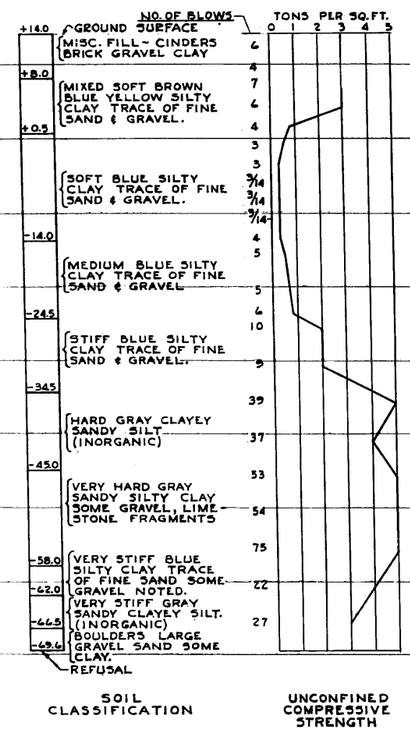
ALL PILES SUPPORTING APPROACH SLABS SHALL BE REINFORCED WITH 6-#6 BARS x 20'-0" LONG CAST IN THE UPPER SECTION OF THE PILE.

ALL PILING REINFORCEMENT MUST BE FABRICATED IN A CAGE WITH SPURS, TIES ETC. AS SHOWN AND LOWERED INTO THE SHELL AS A UNIT.

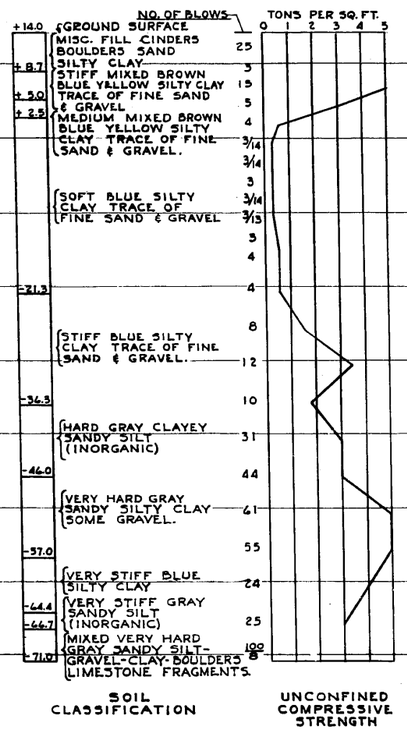
SEE ART. 62.4 OF THE STANDARD SPECIFICATION.



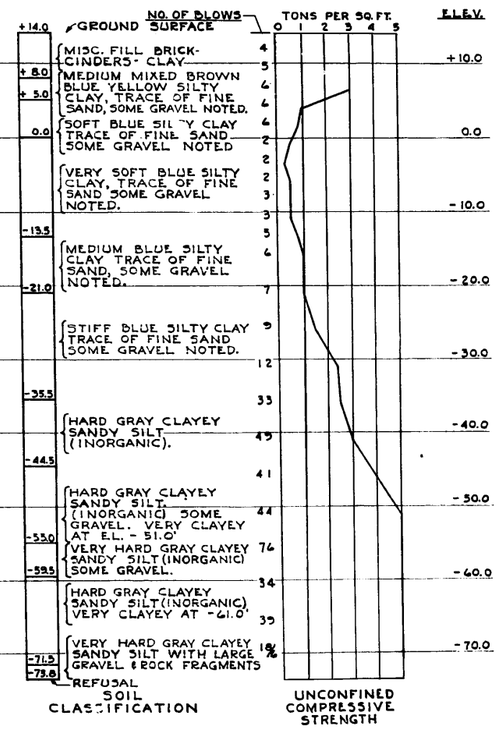
BORING NO 1



BORING NO. 2



BORING NO. 3



BORING NO. 4

BORING NOTES

FIGURES UNDER COLUMN HEADED NUMBER OF BLOWS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE SAMPLING SPOON ONE FOOT, USING 140 LB. WEIGHT FALLING 30 INCHES.
SPOON INSIDE DIA. OUTSIDE DIA.

FOR LOCATION OF BORINGS, SEE SHEET NO. 8

ELEVATIONS SHOWN ARE BASED ON THE STANDARD CHICAGO CITY DATUM.

BORING DATA SHOWN AS A GUIDE FOR BIDDERS IN ESTIMATING SOIL CONDITION WHICH MAY BE ENCOUNTERED.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY ——
DRAWN BY A.K. MAGENNIS
CHECKED J.R. SASSAMAN
IN CHARGE

CONGRESS STREET EXPRESSWAY

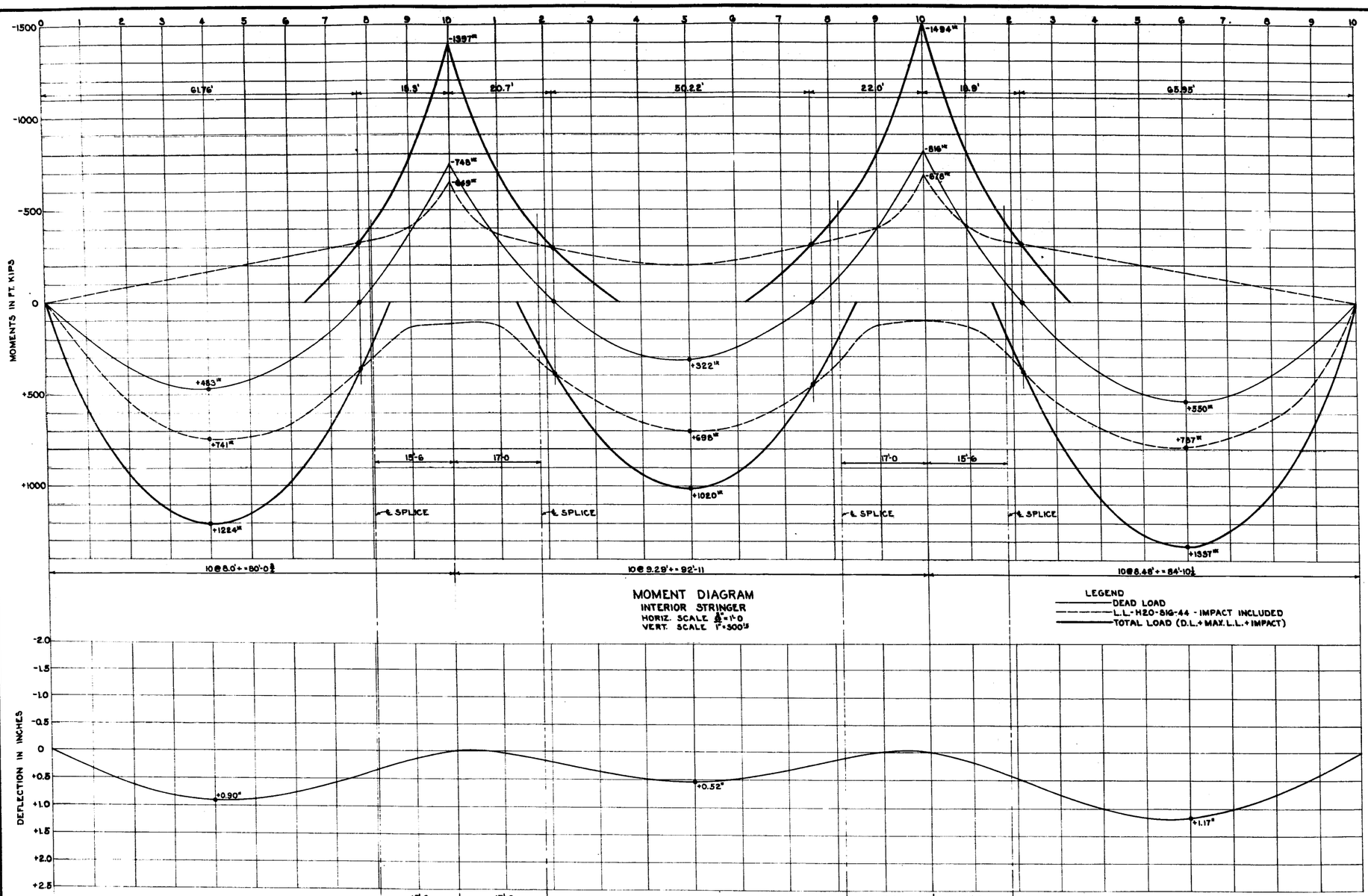
LEAVITT STREET BRIDGE

SECTION 3-8-8

BORING DATA

SCALE: AS NOTED

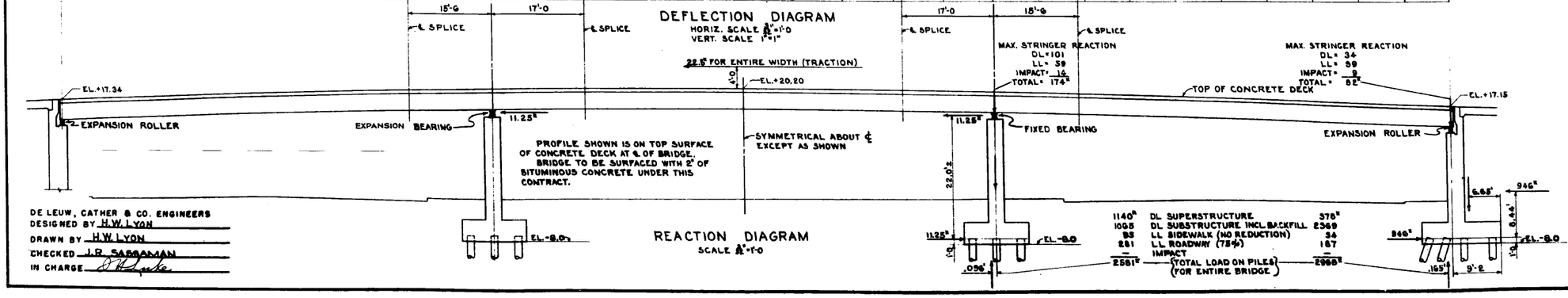
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	10
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	U.I.26N(71)	



MOMENT DIAGRAM
INTERIOR STRINGER
HORIZ. SCALE 1"=1'-0
VERT. SCALE 1"=300^K

LEGEND
——— DEAD LOAD
– – – – L.L.-H20-S16-44 - IMPACT INCLUDED
——— TOTAL LOAD (D.L.+MAX.L.L.+IMPACT)

DEFLECTION DIAGRAM
HORIZ. SCALE 1"=1'-0
VERT. SCALE 1"=1"



REACTION DIAGRAM
SCALE ½"=1'-0

1140K	DL SUPERSTRUCTURE	378K	
1095	DL SUBSTRUCTURE INCL. BACKFILL	2369	
85	LL SIDEWALK (NO REDUCTION)	34	
261	LL ROADWAY (75%)	187	
	IMPACT		
2581K	TOTAL LOAD ON PILES (FOR ENTIRE BRIDGE)	2968K	

DESIGN DATA

LOADINGS:

DEAD LOAD
CONCRETE 150#/C.F.
2" WEARING SURFACE 25#/S.F.

LIVE LOAD
H20-S16-44 AASHO SPEC. OF 1949
16K WHEEL LOAD USED IN DESIGN OF CONCRETE DECK AND APPROACH SLAB

EARTH PRESSURE
UNIT WEIGHT 116#/C.F.
MAX. LATERAL PRESSURE 46#/S.F.
MIN. LATERAL PRESSURE 31#/S.F.
WALL FRICTION NEGLECTED

TEMPERATURE
EXPANSION COEFFICIENT FOR CONCRETE .000006

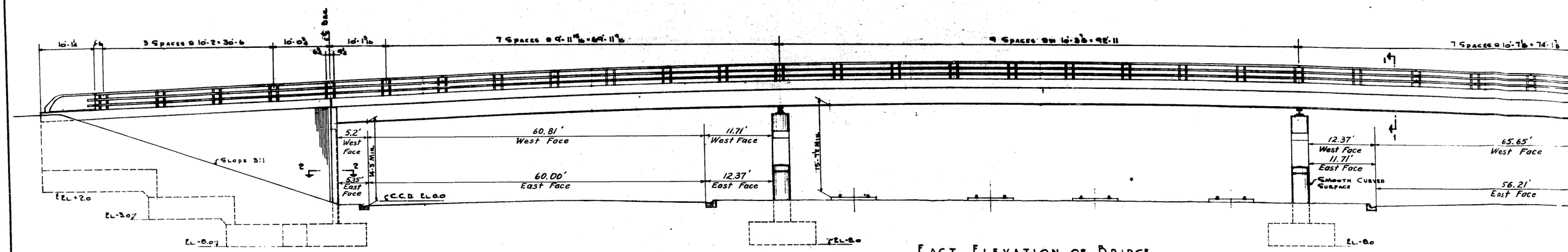
ALL DESIGN CRITERIA, LOADS AND DISTRIBUTION, FORCES, WORKING STRESSES, CONSTRUCTION AND SPECIFICATIONS TO CONFORM TO AASHO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5TH EDITION, 1949, UNLESS OTHERWISE NOTED.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY H.W.LYON
DRAWN BY H.W.LYON
CHECKED J.R. SARGAMAN
IN CHARGE J.R. Sarg

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8

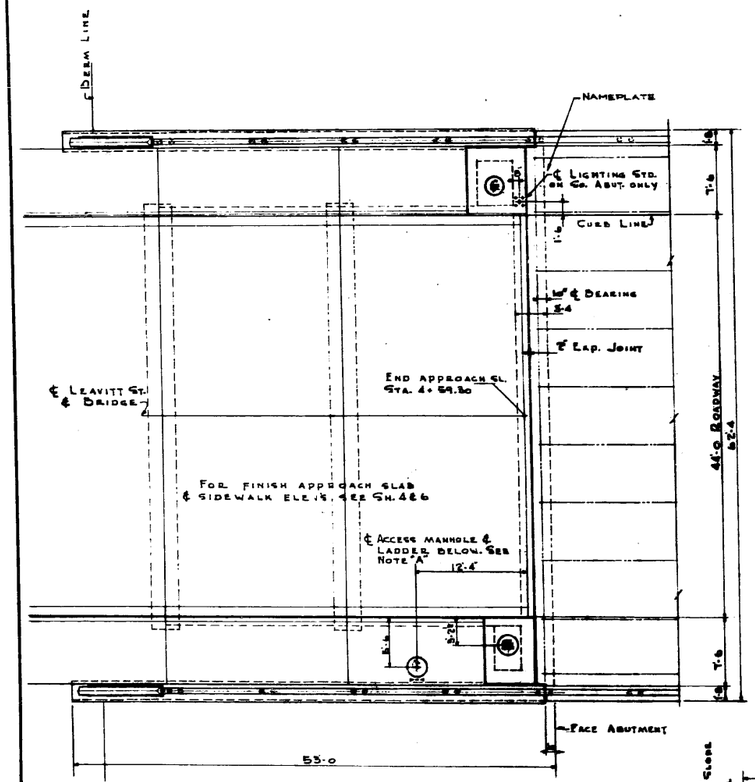
DESIGN DATA

SCALE: AS NOTED



East Elevation of Bridge

West Elevation Opposite Hand
Scale ⅛"=1'-0



Plan of South Bridge Approach

See North & South Approach Slab Sections & Elevations on Sh. 486
Note "A" Manhole Clow National F 3395 Frame & Cover, or Equal, Include in Class-X Concrete.
Scale 1/8"=1'-0

DE LEUW, GATHER & CO. ENGINEERS
DESIGNED BY O. NELSON
DRAWN BY O. NELSON
CHECKED O. NELSON
IN CHARGE

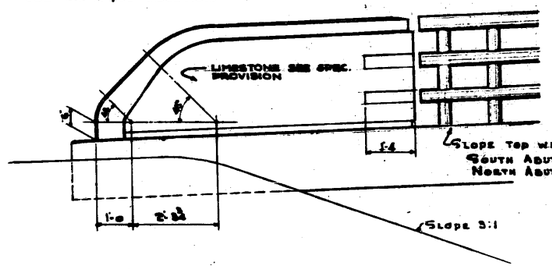
CONGRESS ST. EXPRESSWAY
AT
LEAVITT STREET
F.A. ROUTE 131 SEC. 3-B&B 3-F&
F.A. PROJ. U.I. 261(11)
STATION 238+89.09
LOADING H20-S16
1963

BUILT BY
STATE OF ILLINOIS
WITH THE CO-OPERATION OF
CITY OF CHICAGO
COUNTY OF COOK
FEDERAL GOVERNMENT
1953

So Abut. Standard 2086

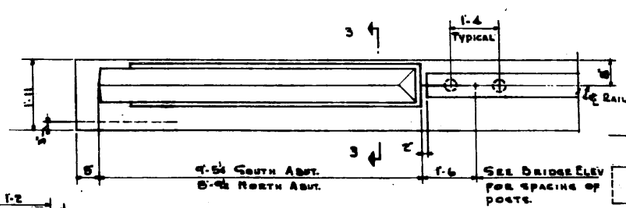
Inscription to be used on Name Plates. See Sh. 37 for detail of plates & lettering. See Sh. 19 for location.

N. Abut. Standard 2087



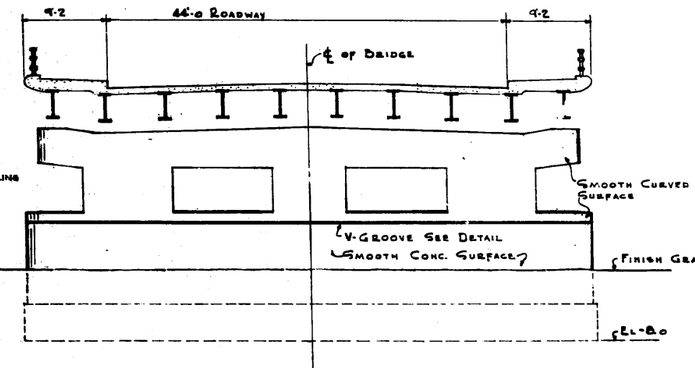
Elevation of Dylon

Scale ½"=1'-0



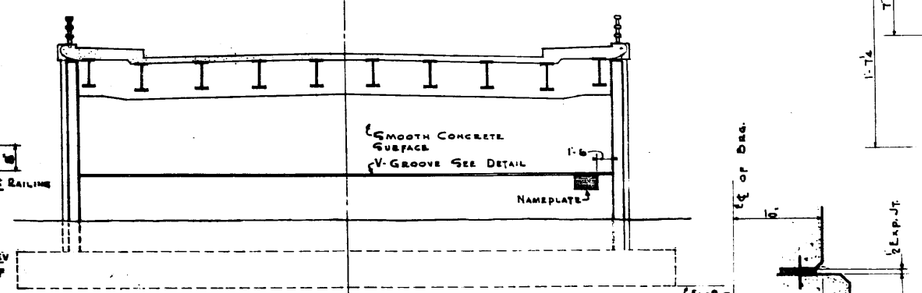
Plan of Dylon

Scale ½"=1'-0



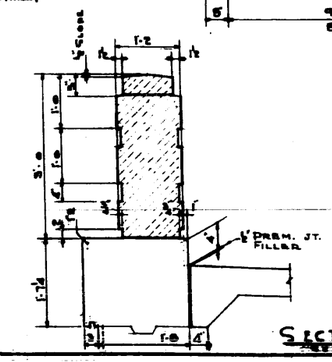
Elevation of Pier No 1 & 2

Scale ⅛"=1'-0



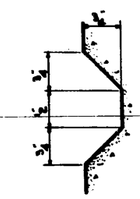
Elevation of South Abutment

Scale ⅛"=1'-0

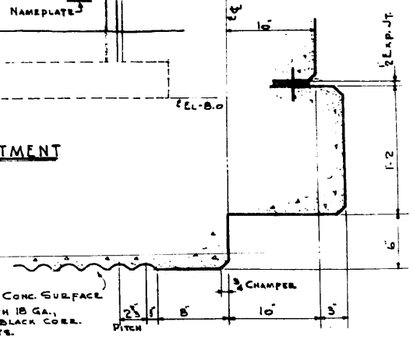


Section 3-3

Scale ½"=1'-0

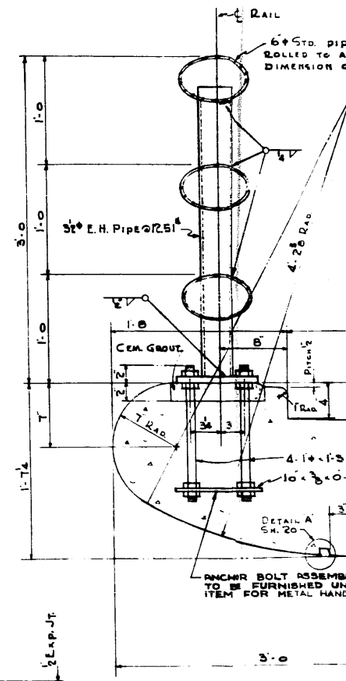


Typical Section
V-Groove Detail

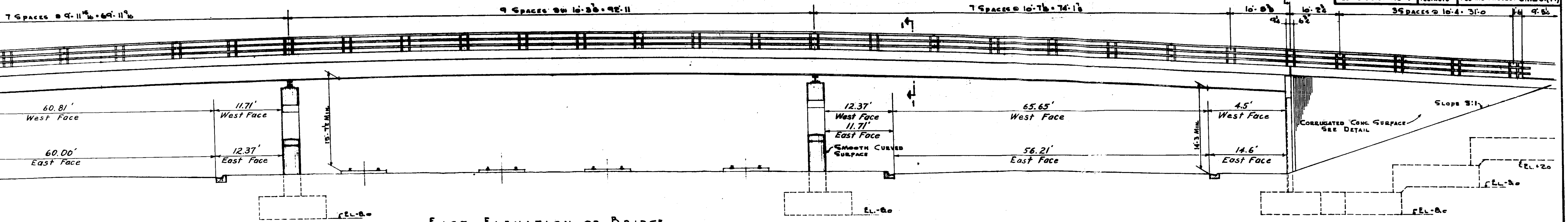


Section 2-2

Scale 1½"=1'-0



BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8	COOK	38	11
FED. ROAD DIST. NO. 4	ILLINOIS	FED AID PROJECT U.I.261(71)		



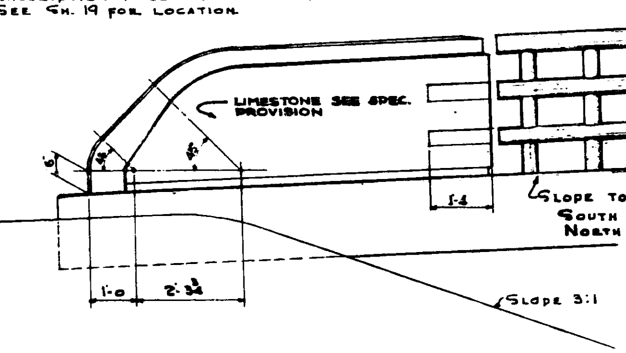
EAST ELEVATION OF BRIDGE
WEST ELEVATION OPPOSITE HAND
SCALE 1/8"=1-0

CONGRESS ST. EXPRESSWAY
AT
LEAVITT STREET
F.A. ROUTE 131 SEC. 3-B-8 3-F-8
F.A. PROJ. U.I. 261(71)
STATION 258+89.09
LOADING H20-S16
1953

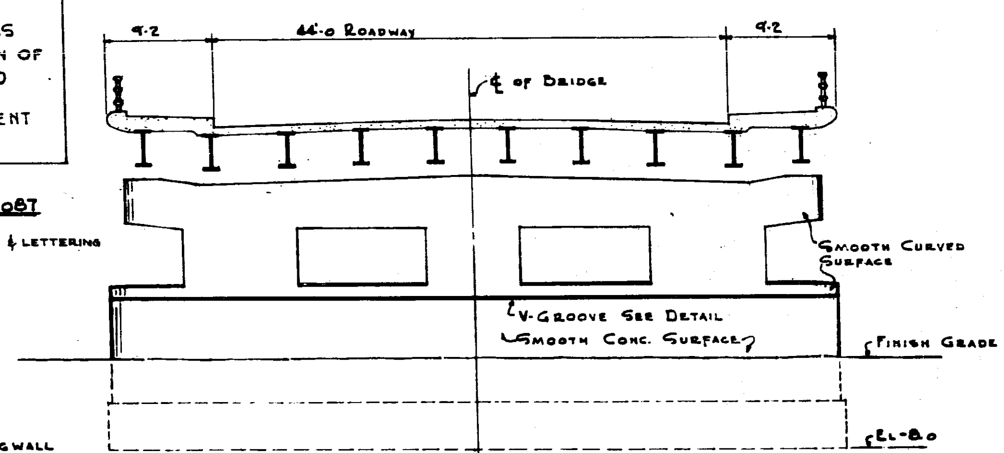
BUILT BY
STATE OF ILLINOIS
WITH THE CO-OPERATION OF
CITY OF CHICAGO
COUNTY OF COOK
FEDERAL GOVERNMENT
1953

So. ABUT. STANDARD 2086 — N. ABUT. STANDARD 2087

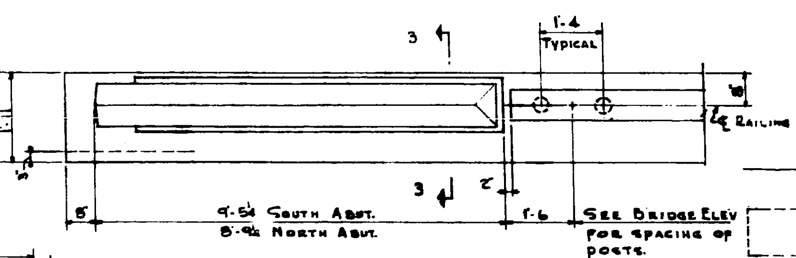
INSCRIPTION TO BE USED ON NAME PLATES. SEE SH. 37 FOR DETAIL OF PLATES & LETTERING
SEE SH. 19 FOR LOCATION.



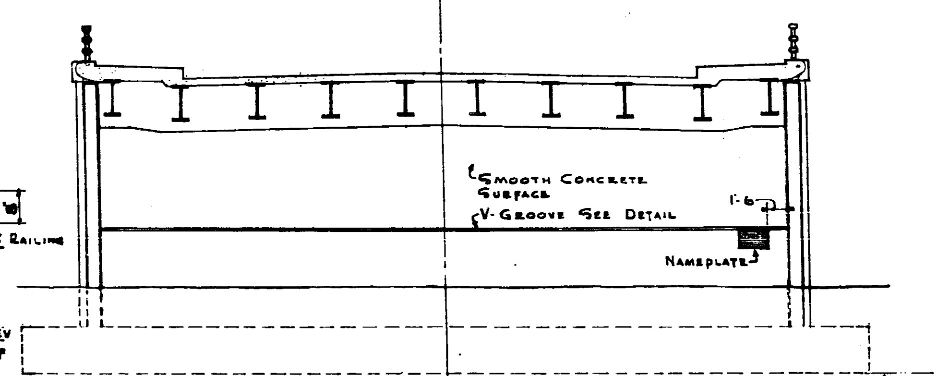
ELEVATION OF DYLON
SCALE 1/2"=1-0



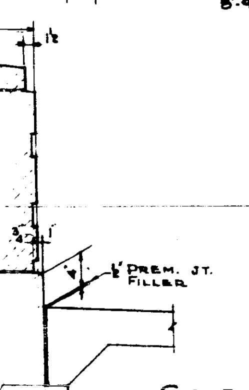
ELEVATION OF PIER No. 1 & 2
SCALE 1/8"=1-0



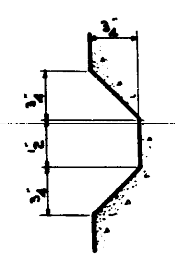
PLAN OF DYLON
SCALE 1/2"=1-0



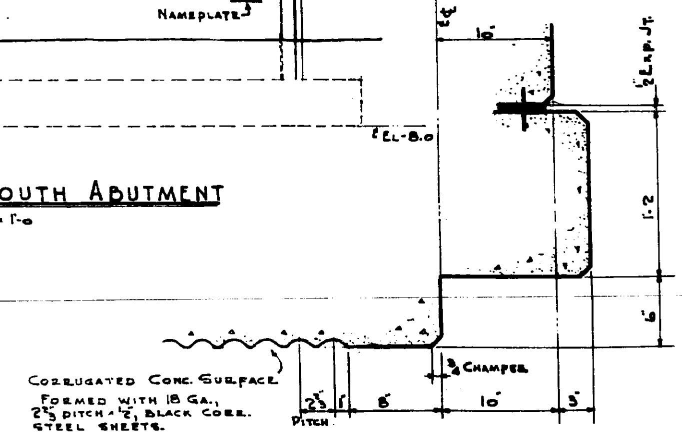
ELEVATION OF SOUTH ABUTMENT
SCALE 1/8"=1-0



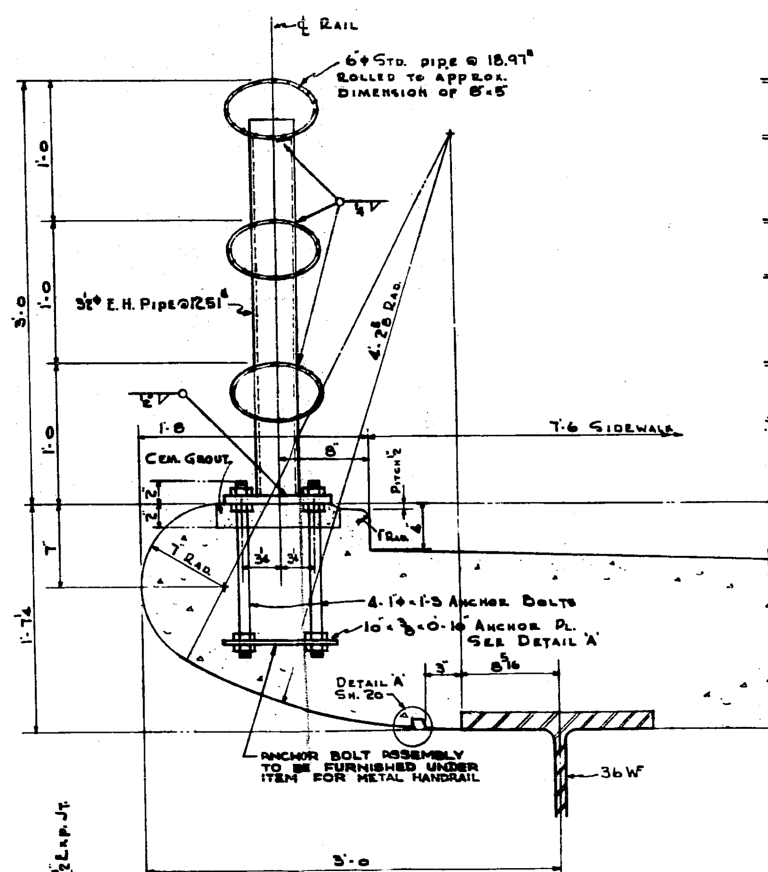
SECTION 3-3



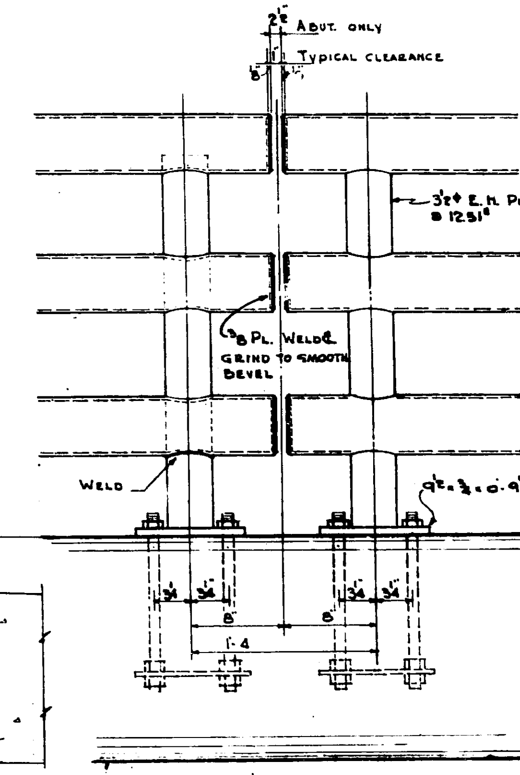
TYPICAL SECTION
V-GROOVE DETAIL

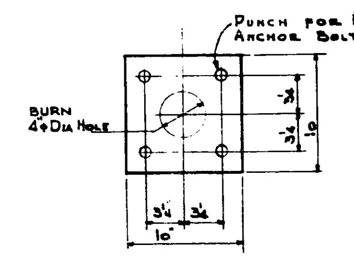


SECTION 2-2
SCALE 1 1/2"=1-0



SECTION 1-1
SCALE 1 1/2"=1-0





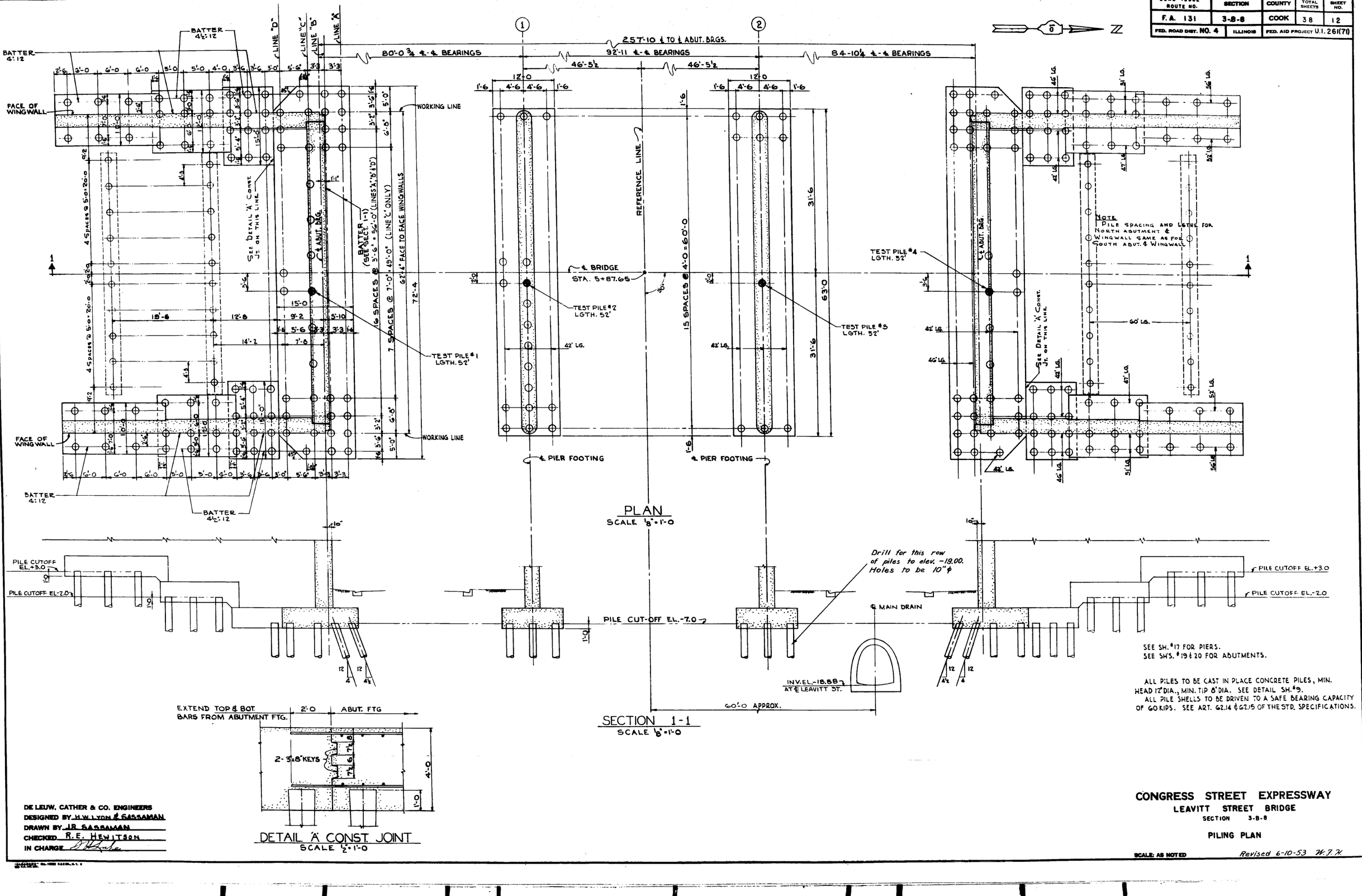
DETAIL 'A'
SCALE 1 1/2"=1-0

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8

ARCHITECTURAL ELEVATION & DETAILS

SCALE: AS NOTED — Revised 6-10-53

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8	COOK	38	12
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(71)		



PLAN
SCALE 1/8" = 1'-0

SECTION 1-1
SCALE 1/8" = 1'-0

DETAIL 'A' CONST. JOINT
SCALE 1/2" = 1'-0

SEE SH. #17 FOR PIERS.
SEE SH'S. #19 & 20 FOR ABUTMENTS.

ALL PILES TO BE CAST IN PLACE CONCRETE PILES, MIN. HEAD 12" DIA., MIN. TIP 8" DIA. SEE DETAIL SH. #9.
ALL PILE SHELLS TO BE DRIVEN TO A SAFE BEARING CAPACITY OF 60 KIPS. SEE ART. 62.14 & 62.15 OF THE STD. SPECIFICATIONS.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY H.W. LYON & GASSAMAN
DRAWN BY J.R. GASSAMAN
CHECKED R.E. HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8

PILING PLAN

SCALE: AS NOTED

Revised 6-10-53 H.J.H.

N

257'-10 ℄ to ℄ Bearings

86'-0½ | 92'-11 | 84'-10½

℄ of Concrete Inserts Below Approach Walk for Bureau El. Ducts

Bureau of Elect. ℄ of Concrete Inserts See Schedule

Commonwealth Edison Co. ℄ of Concrete Inserts See Schedule

Ill. Bell Telephone Co. ℄ of Concrete Inserts See Schedule

2½" Galv. Steel Conduit cast in slab per Dist. Sh. 23

See Detail of Elect. M.H. on Sh. 23

Elect. M.H.

℄ Lighting Standard

℄ Pile Cap

Back of Backwall

℄ Bearing

See Details of Elect. M.H. on Sh. 23

Type 'D' Exp. Dam.

Type 'A' Exp. Dam.

Type 'B' Exp. Dam.

5 Spaces @ 6'-4"-31'-8"

3@4'-0"-12'-0" | 8'-0" | 3@4'-0"-12'-0"

36 WF 280 | 2½" Camber | No Camber | 14 WF 34 | 16 WF 40 | 3" Camber | 24 WF 76 | 2" Camber

℄ Splice | ℄ Pier

4 Spaces @ 15'-9" = 55'-0 | 12'-0 | 12'-1 | 5 Spaces @ 15'-9" = 65'-9 | 12'-1 | 12'-0 | 4 Spaces @ 14'-9" = 59'-0

Framing Plan

Scale 1/8"=1'-0

257'-10 ℄ to ℄ Bearings

126'-6¼ | 131'-3½

80'-0¾ | 46'-5½ | 220'-0 Vertical Curve | 46'-5½ | 84'-10½

App. Slab

℄ Bearing

El. +17.51 Fin. Surface

El. +17.34 Conc. Deck

El. +18.0

Expansion Joint

+4% Grade | -4% Grade

P.I. El. 22.40

El. +20.20

Expansion Roller

Expansion Bearing

Fixed Bearing

℄ Splice

See Details Sh. 15

Chicago City Datum El. 0.0

El. -8.0

Profile shown is on top surface of concrete deck at ℄ of Bridge. Bridge to be surfaced with 2" of bituminous concrete under this contract.

Section 1-1

Scale 1/8"=1'-0

℄ Main Drain

8'-0"

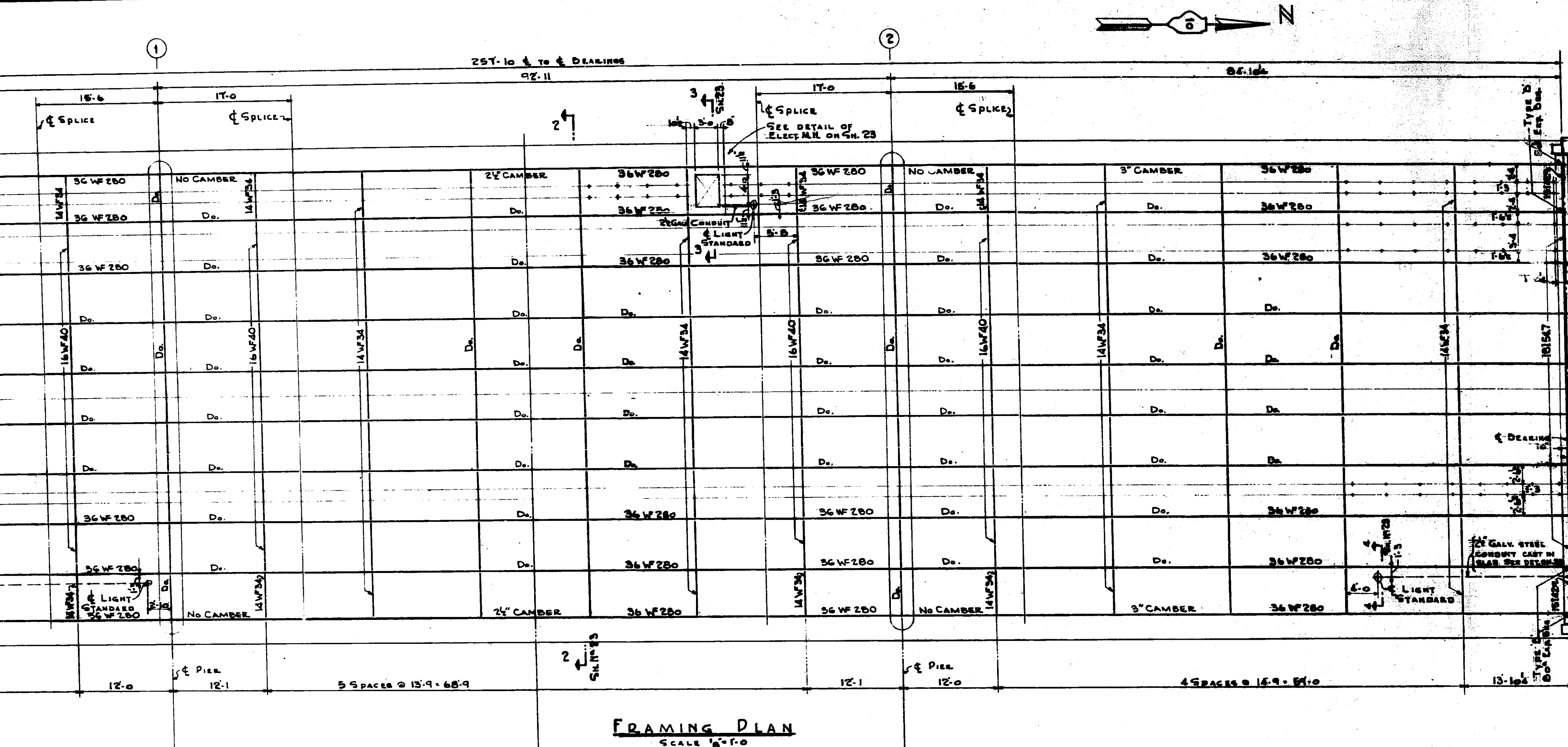
℄ El. -18.00 at ℄ Leavitt St.

Reference Line

66'-0

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY H.W. Lewis, S. Greenberg
DRAWN BY O. Nelson
CHECKED O. Nelson
IN CHARGE

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8 3-F-8	COOK	38	13
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(71)		



BRIDGE DECK NOTES

SEE THIS SHEET FOR PROFILE OF ROADWAY AND SH. 23 FOR "SECTION 2-2" CROSS-SECTION OF BRIDGE DECK, ALSO "DECK CONST. JOINTS" AND "DEAD LOAD DEFLECTION FOR CONCRETE" ON SH. 24

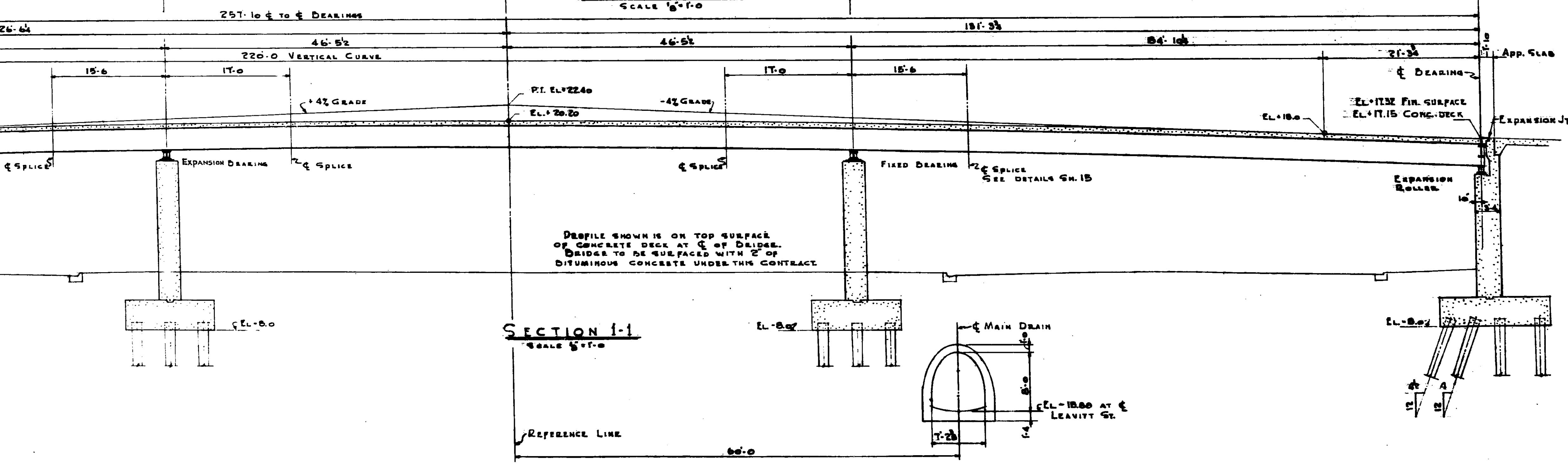
THE CONCRETE SURFACE OF CURB AND WALK IS INTENDED TO CONFORM TO THE ROADWAY PROFILE AND CROSS-SECTIONS. FORMS AND SCREEDS SHOULD BE SET ABOVE THE THEORETICAL ELEVATIONS BY THE AMOUNT SHOWN ON THE DIAGRAM "DEAD LOAD DEFLECTION FOR CONCRETE." THE CONCRETE DECK OF THE ROADWAY SHOULD BE POURED TO THE THICKNESSES SHOWN. THE BITUMINOUS CONCRETE SHOULD BE APPLIED 2 INCHES ± IN THICKNESS IN ORDER TO CONFORM TO THE FINISHED ROADWAY PROFILE.

SEE SHEET NO. 14 FOR CAMBER AND BLOCKING DIAGRAM AND FOR GENERAL NOTES FOR STRUCTURAL STEEL.

THE STRINGERS HAVE BEEN CAMBERED TO PROVIDE FOR VERTICAL CURVE OF THE ROADWAY PLUS DEAD LOAD DEFLECTION.

TOTAL ESTIMATED WEIGHT OF DECK STRUCTURAL STEEL INCLUDING SPLICES AND DIAFRAMS = 858,841 LBS.

SEE SH. 23 FOR DETAIL OF CONDUIT HANGERS, INSERTS ETC.
SEE SH. 7 FOR DETAIL OF CONSTRUCTION UNDER APPROACH SLAB.



CONCRETE INSERT SPACING SCHEDULE

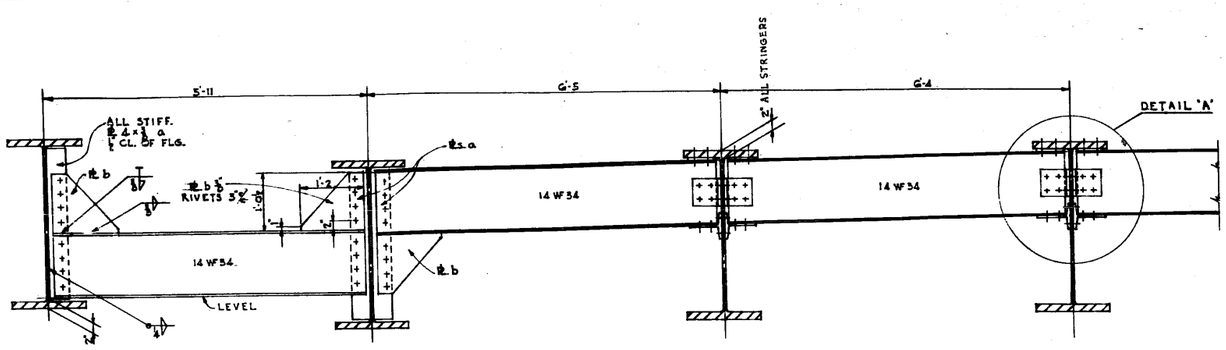
BUREAU OF ELECT.
COMMONWEALTH EDISON CO.
ILL. BELL TELEPHONE CO.

Spacing from So. Abut.		Spacing from Pier No. 1		Spacing from Pier No. 2	
From ℄ Brg.	1-0½	From ℄ Pier 1-11		From ℄ Pier ·	5-0
3@5-8 =	11-0	2@4-3 · 8-6		2@4-0 ·	8-0
To diafram =	1-0	Diafram 1-8		To diafram ·	1-0
	5-3	2-6			5-3
2@4-3 ·	8-6	2@4-3 8-6		2@4-3 ·	8-6
To diafram ·	2-0	Diafram 2-9		To diafram	5-0
	2-2	1-3			1-5
2@4-3 ·	8-6	3@3-10 · 11-6		3@4-0 ·	12-0
To diafram ·	3-1	Diafram 1-0		To diafram ·	1-6
	1-2				2-10
3@3-10 ·	11-6	3-3	3-0	2@4-4 ·	8-8
To diafram ·	1-1	2@4-3 8-6	2@4-0 8-0	To diafram ·	3-3
	3-2	Diafram 2-0	2-9		1-0
2@4-3 ·	8-6	2-3	1-3	3@4-3 ·	12-9
To diafram ·	2-1	2@4-3 8-6	3@3-9 · 11-3	To diafram ·	1-0
	1-2	Diafram 3-0	1-3		2-1
2@4-3	8-6	1-0	Manhole Here 5-6	3@3-5 ·	10-3
To ℄ Pier No. 1	2-4	3@3-9 · 11-3	2@3-8 7-4	To ℄ Brg. at N. Abut.	1-0¼
Total	80-0½	Diafram 1-6	0-11	Total	84-10¼
		2-9	3-1		
		2@4-2 · 8-4	2@4-0 8-0		
		℄ Pier 2 1-0	1-0		
		Total 92-11	92-11		

Cont. as noted for Bureau of Elect.

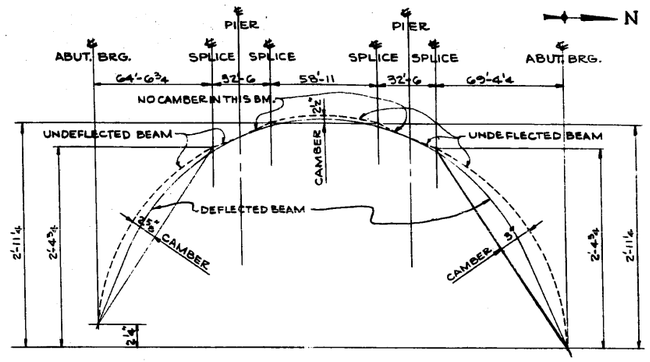
CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8 3-F-8
DECK FRAMING PLAN

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8 3-F-8	COOK	38	14
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	U.1.261(71)	



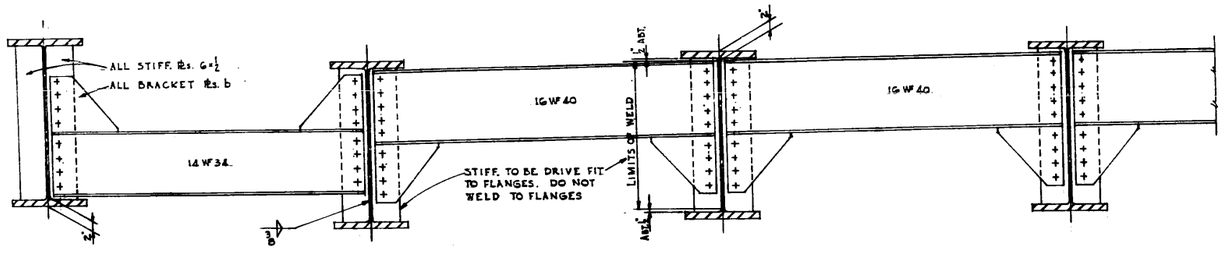
TYPICAL DIAFRAM

3/4" = 1'-0



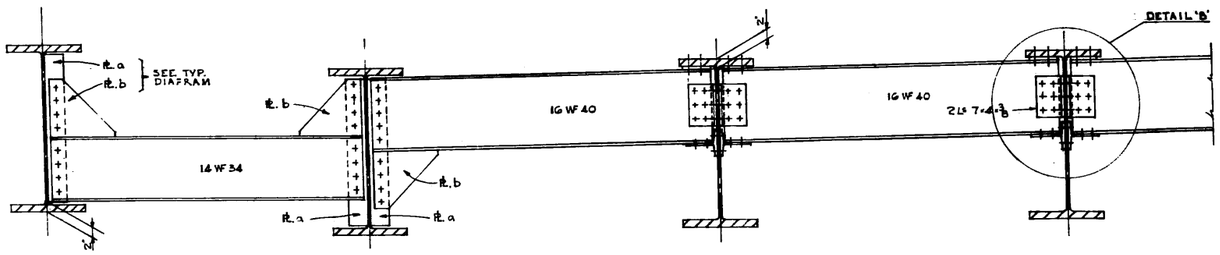
CAMBER AND BLOCKING DIAGRAM

NOTE:
CAMBER ORDERED TO PROVIDE FOR DEAD LOAD DEFLECTION PLUS VERTICAL CURVE OF ROADWAY. DEFLECTED BEAM LINE IS PARALLEL TO THE ROADWAY PROFILE.



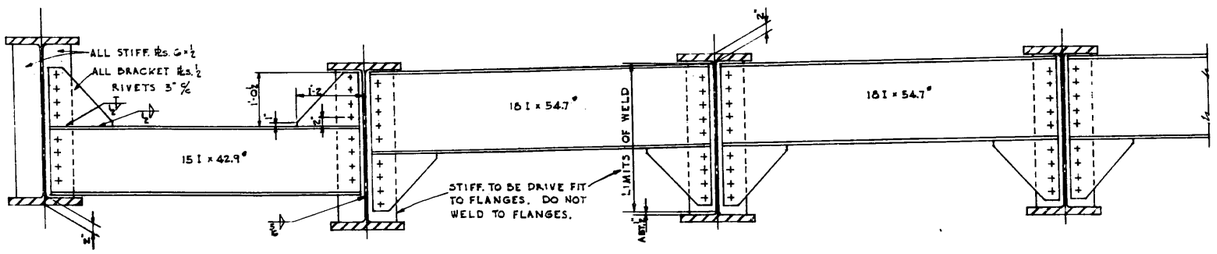
DIAFRAM AT PIER

3/4" = 1'-0



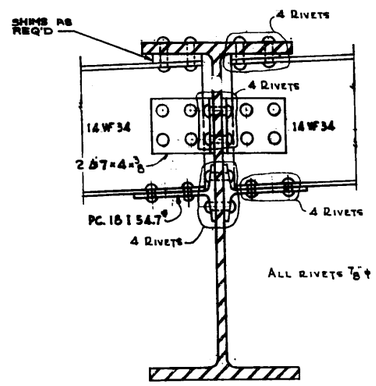
DIAFRAM AT DECK CONST. JOINT

3/4" = 1'-0



DIAFRAM AT ABUTMENT

3/4" = 1'-0



DETAIL 'A'
DETAIL 'B' SIMILAR

1 1/2" = 1'-0

GENERAL NOTES
STRUCTURAL STEEL - RIVETING, WELDING, PAINTING.

DESIGN SPECS.-
AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5th EDITION, DATED 1949, AND THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATION FOR WELDED HIGHWAY AND RAILWAY BRIDGES. SEE ALSO SPECIAL PROVISIONS.

CONSTRUCTION SPECS.-
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, 1952

ALL STRUCTURAL STEEL TO CONFORM TO THE SPECIFICATIONS FOR STEEL FOR BRIDGES AND BUILDINGS, ASTM DESIGNATION A7 EXCEPT WHERE NOTED OTHERWISE. f_s = 18,000 PSI.

RIVETS TO BE 7/8"ø AND HOLES 15/16"ø EXCEPT AS NOTED.

ALL RIVET HOLES IN BEAM SPLICES TO BE SUB-PUNCHED 11/16"ø AND REAMED TO SIZE OR DRILLED IN PLACE

BEAMS TO BE ERECTED FULL-LENGTH IN SHOP BEFORE REAMING AND INSPECTION.

STRUCTURAL STEEL AND HANDRAILS SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT. PARTS INACCESSIBLE AFTER ERECTION SHALL HAVE TWO SHOP COATS OF RED LEAD PAINT. FOR APPLICATION SEE SPECIAL PROVISIONS.

SHOP INSPECTION BY ILLINOIS DIVISION OF HIGHWAYS.

BRIDGE RAILING IS NOT INCLUDED IN STRUCTURAL STEEL CONTRACT.

WEIGHT OF DIAFRAMS INCLUDED IN DECK STRUCTURAL STEEL.

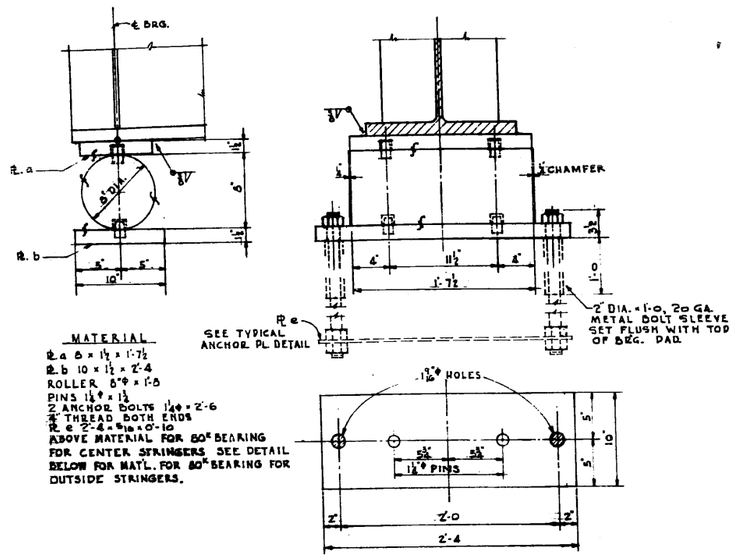
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY S. GREENBERG
DRAWN BY W.C. KUTAY
CHECKED I. LUKE
IN CHARGE I. Luke

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8 3-F-8

DIAFRAM CONNECTIONS & DETAILS

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8 3-F-8	COOK	38	15
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(71)		



MATERIAL

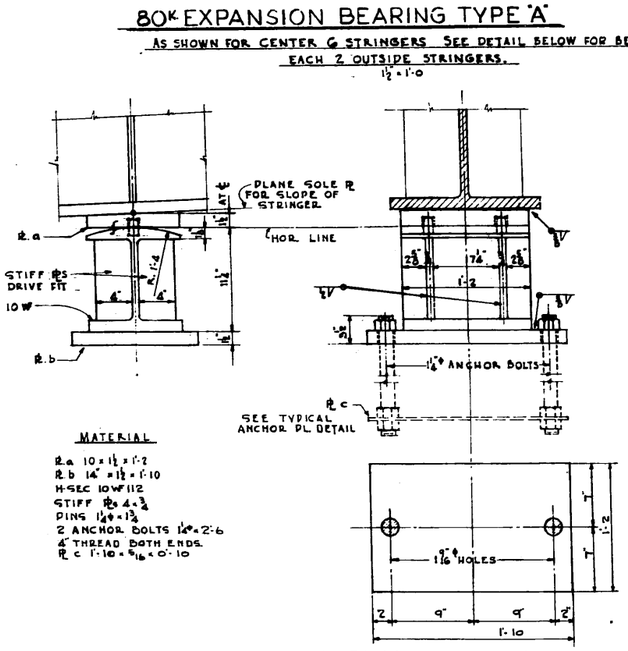
℄ a 8 × 1½ × 1'-7½
℄ b 10 × 1½ × 2'-4
ROLLER 8"Φ × 1'-8
PINS 1¼Φ × 1⅜
2 ANCHOR BOLTS 1¼Φ - 2'-6
4" THREAD BOTH ENDS
℄ e 2'-4 - 5/16 = 0'-10

ABOVE MATERIAL FOR 80ᴷ BEARING FOR CENTER STRINGERS. SEE DETAIL BELOW FOR MAT'L. FOR 80ᴷ BEARING FOR OUTSIDE STRINGERS.

80ᴷ EXPANSION BEARING TYPE "A"

AS SHOWN FOR CENTER G STRINGERS. SEE DETAIL BELOW FOR BEARING FOR EACH 2 OUTSIDE STRINGERS.

1½ = 1'-0

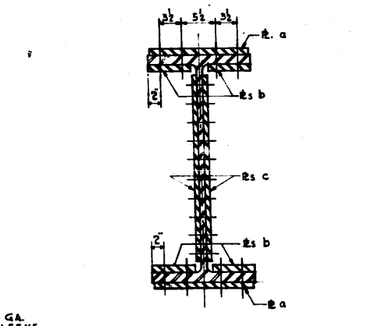


MATERIAL

℄ a 10 × 1½ × 1'-2
℄ b 14" × 1½ × 1'-10
H-SEC. 10WF112
STIFF ℄s 4 × ⅜
PINS 1¼Φ × 1⅜
2 ANCHOR BOLTS 1¼Φ - 2'-6
4" THREAD BOTH ENDS.
℄ c 1'-10 × 5/16 = 0'-10

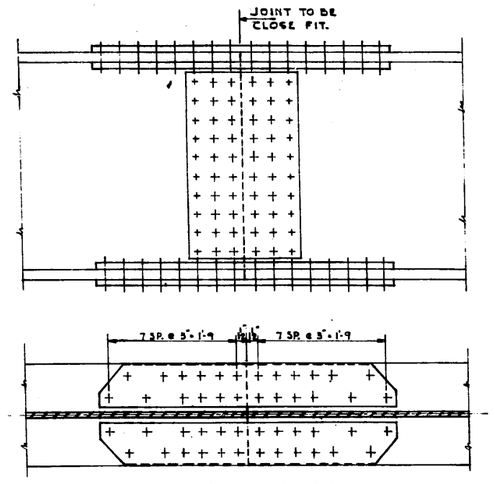
200ᴷ FIXED BEARING AT PIER 2

SCALE 1½ = 1'-0



SPLICE MATERIAL - 36 WF 280

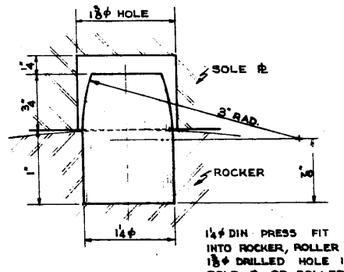
FLANGE ℄s. a 16" × ⅞ × 4'-0
" " b 7" × 1 × 4'-0
WEB ℄s c 16 × ⅜ × 2'-6
RIVETS ⅞Φ



PLAN - 36 WF 280

36 WF SPLICE

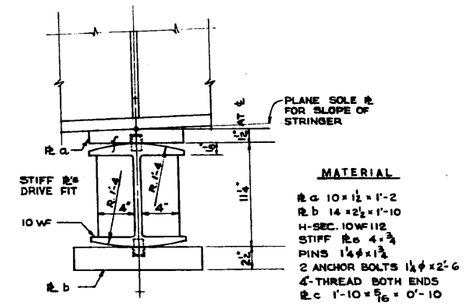
SCALE: 1" = 1'-0



1¼Φ DIN PRESS FIT INTO ROCKER, ROLLER OR BED ℄
1⅜Φ DRILLED HOLE IN SOLE ℄ OR ROLLER
SEE DETAILS OF BEARINGS

DETAIL OF PINS

F.S.

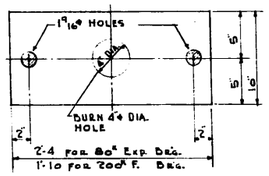


MATERIAL

℄ a 10 × 1½ × 1'-2
℄ b 14 × 2½ × 1'-10
H-SEC. 10WF112
STIFF ℄s 4 × ⅜
PINS 1¼Φ × 1⅜
2 ANCHOR BOLTS 1¼Φ × 2'-6
4"-THREAD BOTH ENDS
℄ c 1'-10 × 5/16 = 0'-10

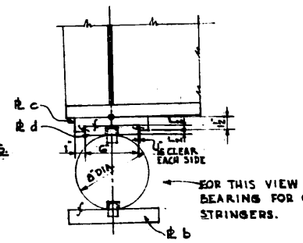
200ᴷ FIXED BRG. AT PIER 1

SCALE: 1½" = 1'-0



TYPICAL ANCHOR PLATE DETAIL

SCALE 1½ = 1'-0



FOR THIS VIEW SEE 80ᴷ BEARING FOR CENTER STRINGERS.

SEE TYPE 'A' BRG. DETAIL FOR ANCHOR PLATE & METAL BOLT SLEEVES.

MATERIAL FOR 80ᴷ EXPANSION BRG. FOR OUTSIDE STRINGERS

℄ c 8 × 1½ × 1'-7½
℄ d 6 × 1 × 1'-7½
℄ b 10 × 1½ × 2'-4
ROLLER 8"Φ × 1'-8.
PINS 1¼Φ × 1⅜
2- ANCHOR BOLTS 1¼Φ × 2'-6
4" THREAD BOTH ENDS
℄ e 2'-4 - 5/16 = 0'-10

80ᴷ EXPANSION BEARING TYPE "B"

1½" = 1'-0

EXPANSION JOINT NOTES

SEE "GENERAL NOTES FOR STRUCTURAL STEEL" SH. 14

EXPANSION JOINT ASSEMBLY SHALL BE FABRICATED AND ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE JOINT. IT SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.
COPPER BEARING STEEL CONFORMING TO ASTM-A7 WITH 2% COPPER ADDED SHALL BE USED FOR ALL EXPOSED PARTS.
ALL PARTS OF JOINT ASSEMBLY INCLUDING BRACKETS, STRAP ANCHORS AND ANCHOR BOLTS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.

JOINT SETTING INSTRUCTIONS.

DIMENSIONS MARKED X_s & X_N ON JOINT DETAILS ARE COMPUTED FOR THE SPACE AT THAT POINT BASED ON THE ASSUMED TEMPERATURE SHOWN. THE DIMENSION X_s & X_N ALSO INCLUDES A ½ INCH ALLOWANCE FOR POSSIBLE FORWARD MOVEMENT AT THE TOP OF THE ABUTMENT DUE TO EARTH PRESSURE, THRUST OF APPROACH SLAB ETC. THE DIMENSION WILL INCREASE OR DECREASE APPROXIMATELY ONE EIGHTH INCH FOR EACH 10° DROP OR RISE IN TEMPERATURE, FOR THE S. ABUT. & 1/16 FOR THE N. ABUT.. AT TIME CONCRETE ANCHORING JOINT ON ABUTMENT IS POURED DIMENSIONS NOTED X_s & X_N SHOULD BE ADJUSTED FOR TEMPERATURE AS INDICATED IN THE SCHEDULE. NOT LATER THAN 8 HOURS AFTER CONCRETE HAS BEEN POURED "JOINT CONNECTION BOLTS" SHOULD BE REMOVED.

BEARING AND SPLICE NOTES

SEE GENERAL NOTES FOR STRUCTURAL STEEL SH. 14

STEEL FOR EXPANSION ROLLERS, BEARINGS AND SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ART. 124.3 AND 124.3(a) OF THE STANDARD SPECIFICATIONS WHERE APPLICABLE.

ALL ROLLERS, ROCKERS AND BEARING PLATES SHALL BE FINISHED IN ACCORDANCE WITH ART. 55.4 (m). OF THE STANDARD SPECIFICATIONS AND WITH ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH THE DETAILS AS SHOWN. THESE ITEMS ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL. THICKNESS OF SOLE PLATES IS GIVEN AT THE CENTER LINE OF BEARING. SOLE PLATES TO BE PLANED TO COMPENSATE FOR SLOPE OF STRINGER AND STRINGER FLANGE VARIATION FROM NORMAL.
SEE FRAMING PLAN SH. 13 FOR BEARING LOCATIONS. FINISHED SURFACES OF BEARINGS AND ROLLERS TO BE SHOP COATED WITH WHITE LEAD AND TALLOW, OTHER SURFACES TO BE PAINTED.

SPLICE PLATES TO BE MATCH MARKED FOR SHIPMENT.

TOTAL ESTIMATED WEIGHT OF BEARINGS INCLUDING ANCHOR BOLTS 17,850 LB.
WEIGHT OF SPLICES INCLUDED IN DECK STRUCTURAL STEEL.

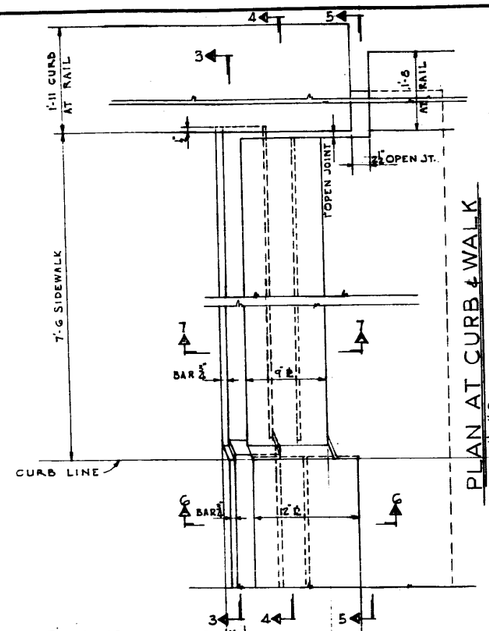
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY R.E. HEWITSON
DRAWN BY W.C. KUTAY
CHECKED I. LUKS
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8 3-F-8

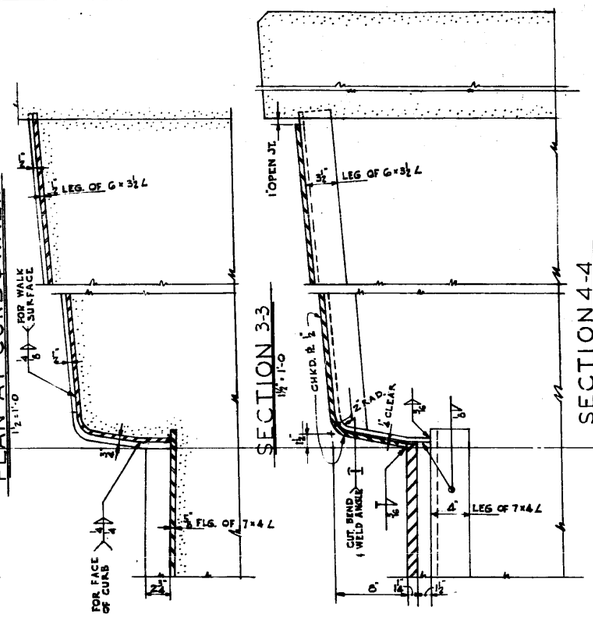
BEARING & SPLICE DETAILS

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8 3-F-8	COOK	38	16
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		



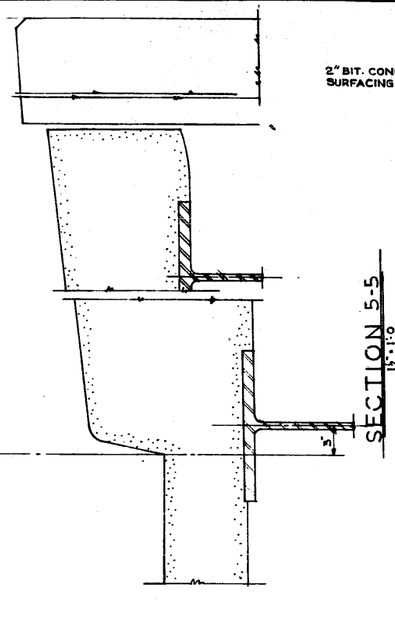
PLAN AT CURB & WALK
1/2" = 1'-0



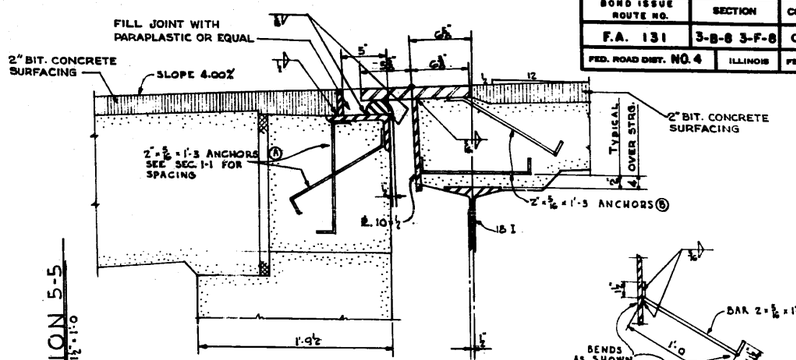
SECTION 2-2
1/2" = 1'-0

SECTION 3-3
1/2" = 1'-0

SECTION 4-4
1/2" = 1'-0

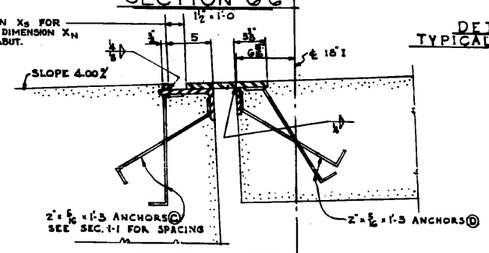


SECTION 5-5
1/2" = 1'-0

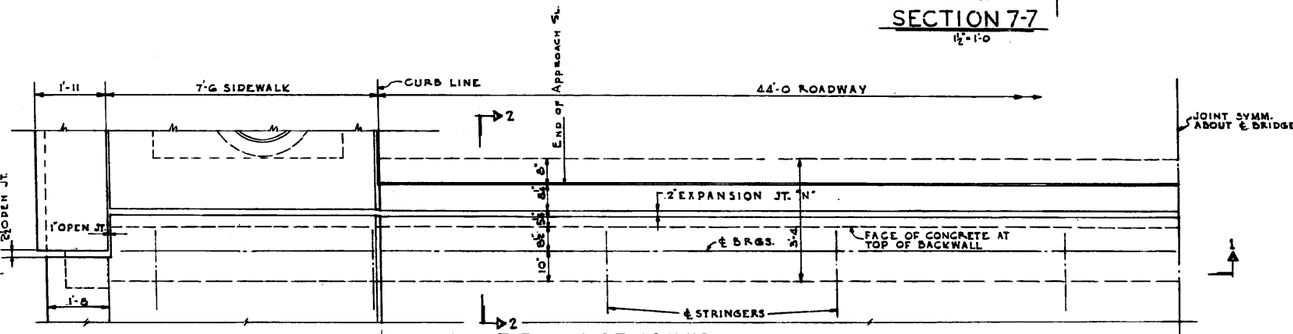


SECTION C-C
1/2" = 1'-0

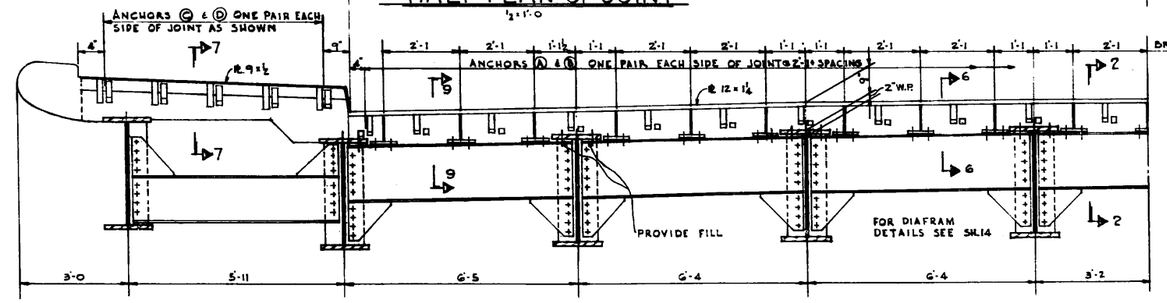
DETAIL TYPICAL ANCHOR



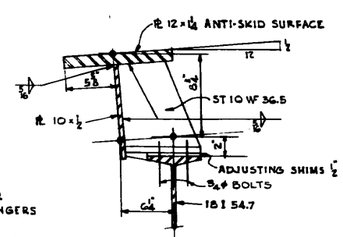
SECTION 7-7
1/2" = 1'-0



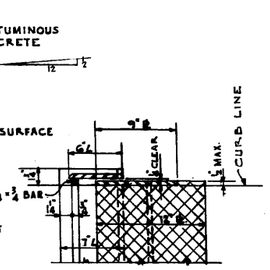
HALF PLAN OF JOINT
1/2" = 1'-0



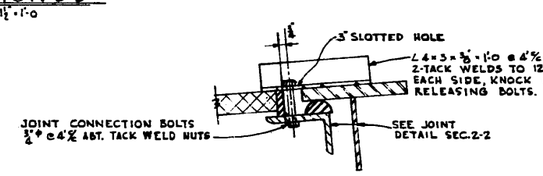
SECTION 1-1
1/2" = 1'-0



SECTION 9-9
1/2" = 1'-0



SECTION 8-8
1/2" = 1'-0



SHIPPING & ADJUSTMENT DETAIL
As shown for Sec. 2-2
Similar for Sec. 7-7
Scale 1 1/2" = 1'-0

JOINT ADJUSTING SCHEDULE						
TEMPERATURE	110°	90°	70°	50°	30°	10°
DIMENSION X_S	5/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
DIMENSION X_N	3/8"	5/8"	7/8"	1"	1 1/4"	1 1/4"

DIM. X_S FOR S. ABUT.
DIM. X_N FOR N. ABUT.

NOTE: SCHEDULE BASED ON 5/8" CLEARANCE AT 130° F SEE NOTE ON SH. 15

ESTIMATED WEIGHT OF COMPLETE EXPANSION JOINT ASSEMBLIES ON BRIDGE INCLUDING SIDEWALK, ALSO ANCHOR STRAPS AND BOLTS 15,640 POUNDS

SEE SH. 15 FOR EXPANSION JOINT NOTES.

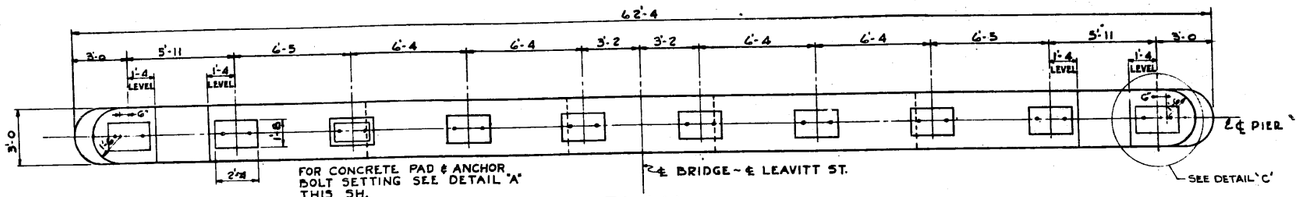
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY I. LUKE
DRAWN BY W.C. KUTAY
CHECKED I. LUKE O. NELSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8 3-F-8

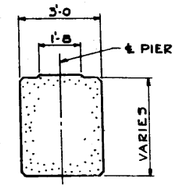
EXPANSION JOINT DETAILS

SCALE: AS NOTED

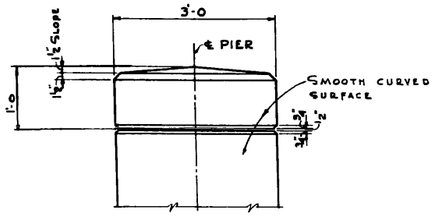
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	17
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		



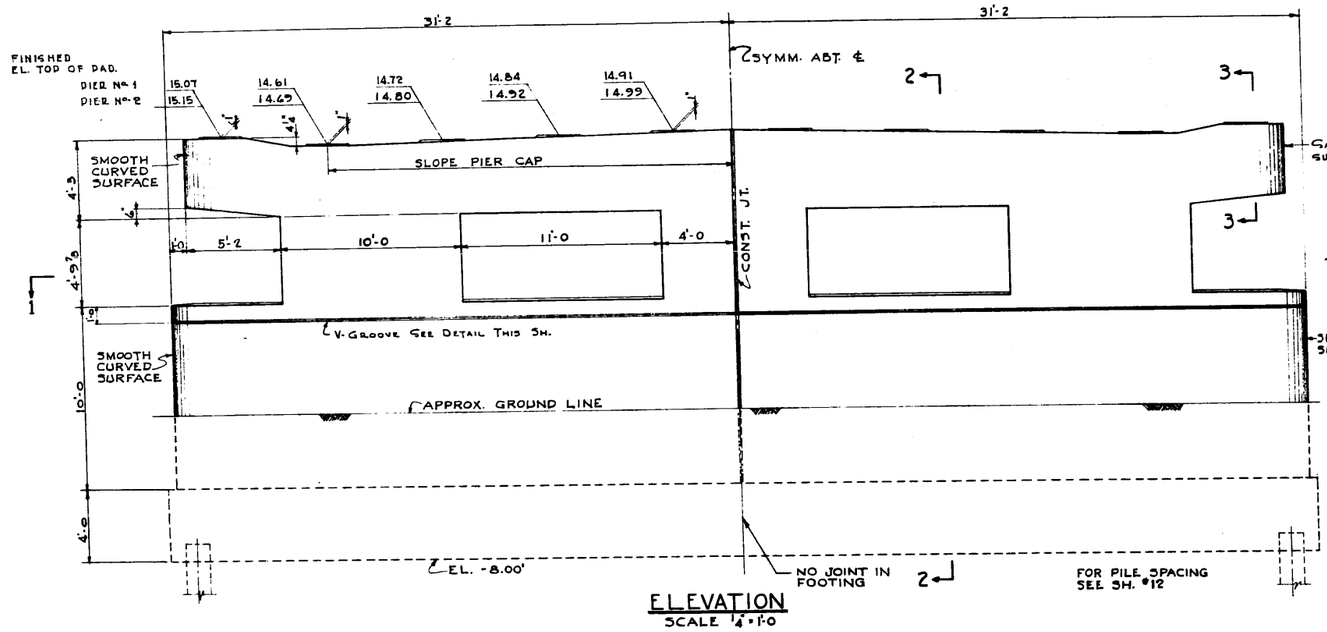
PLAN
SCALE 1/4" = 1'-0



SECTION 3-3
SCALE 3/8" = 1'-0

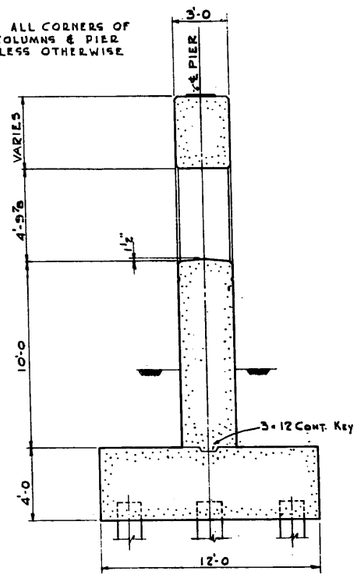


END ELEVATION
COLLISION WALL
SCALE 3/4" = 1'-0

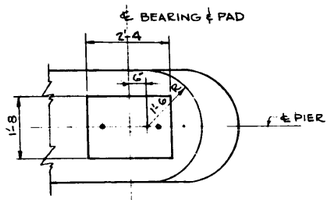


ELEVATION
SCALE 1/4" = 1'-0

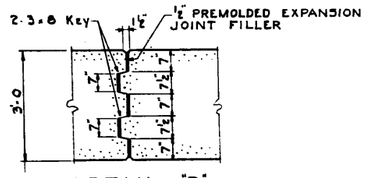
CHAMFER ALL CORNERS OF PIER CAP, COLUMNS & PIER WALL 1½" UNLESS OTHERWISE DETAILED.



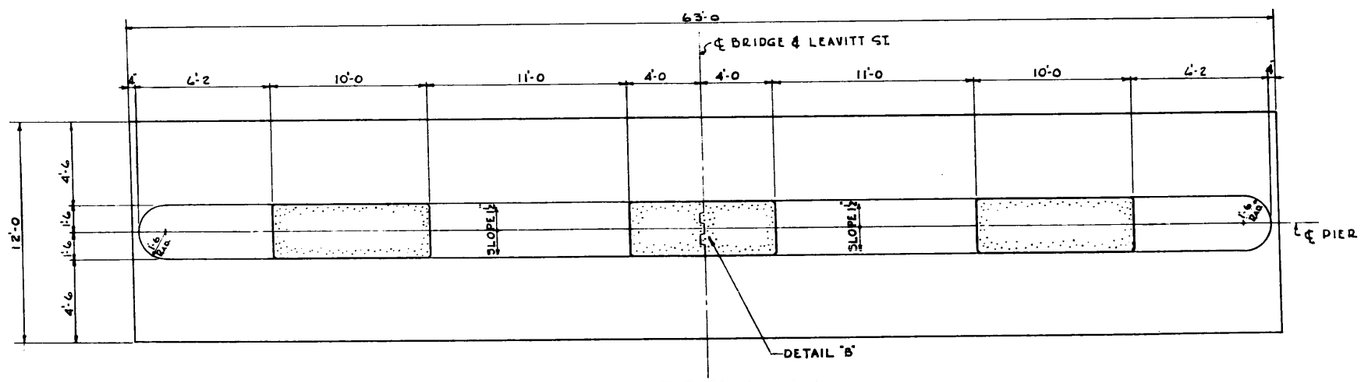
SECTION 2-2
SCALE 1/4" = 1'-0



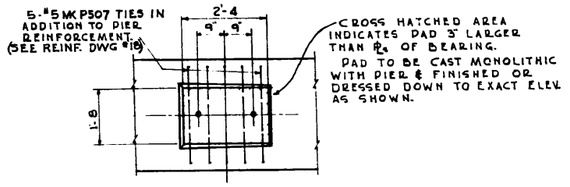
DETAIL "C"
SCALE: ½" = 1'-0



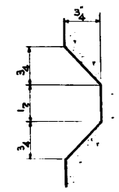
DETAIL "B"
SCALE 1½" = 1'-0



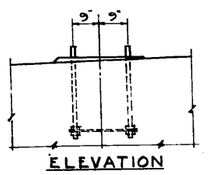
SECTION 1-1
SCALE 1/4" = 1'-0



PLAN



Typical Section
V-Groove Detail



ELEVATION

BED PLATE TO BE SET AS SPECIFIED. SEE AASHO SPECIFICATION 2-10-51 FOR BEARING DETAILS AND PROJ. AND SIZE OF ANCHOR BOLTS SEE SH. #15

DETAIL "A" BEARING PAD
SCALE 1/2" = 1'-0

SEE SH. 18 FOR REINFORCEMENT

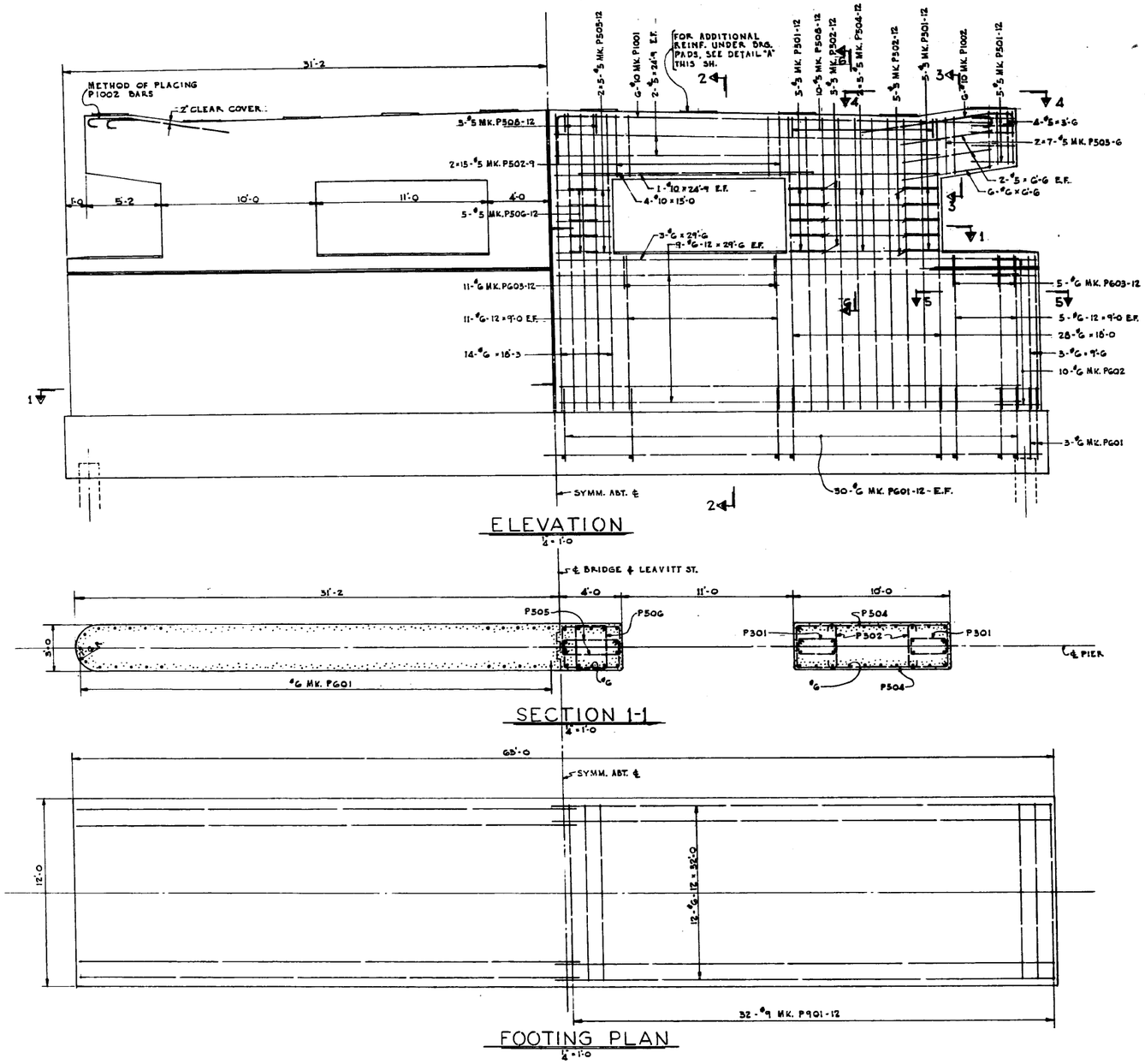
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY O. NELSON
DRAWN BY A.K. MAGENNIS
CHECKED R.E. HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8

PIERS & DETAIL SECTIONS

SCALE: AS NOTED

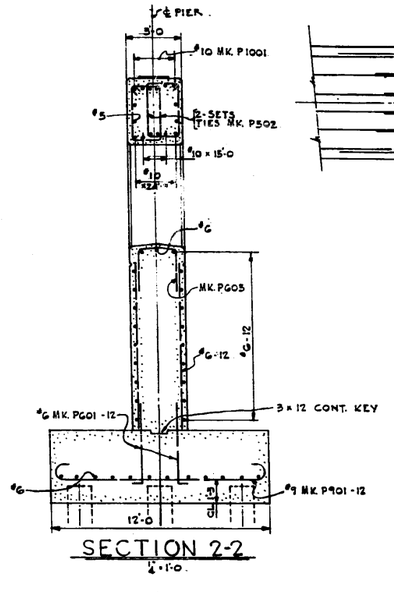
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8	COOK	38	18
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		



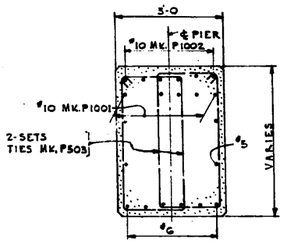
ELEVATION
1/4" = 1'-0

SECTION 1-1
1/4" = 1'-0

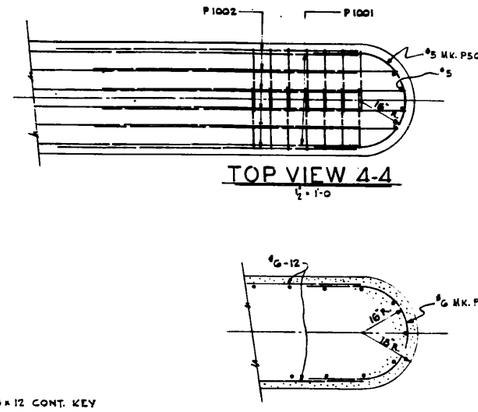
FOOTING PLAN
1/4" = 1'-0



SECTION 2-2
1/4" = 1'-0

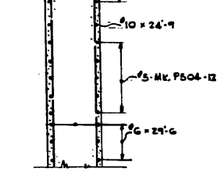


SECTION 3-3
1/2" = 1'-0

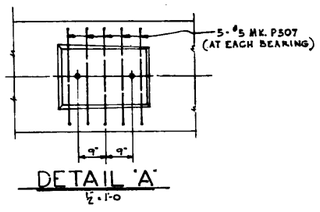


TOP VIEW 4-4
1/2" = 1'-0

SECTION 5-5
1/2" = 1'-0



SECTION 6-6
1/4" = 1'-0



DETAIL 'A'
1/2" = 1'-0

CLASS X CONCRETE IN 2 PIERS 447 CY
REINFORCEMENT BARS IN 2 PIERS 33,069 LB.

SEE SHEET NO. 7 FOR NOTES ON CONCRETE AND REINFORCEMENT
SEE SH. 25 FOR REINFORCEMENT BAR LIST.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY O. NELSON
DRAWN BY W.C. KUTAY
CHECKED R.S. HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8

PIER REINFORCEMENT

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	19
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		

24"ø MANHOLE FRAMES & COVERS TO BE FURNISHED BY BUREAU OF ELECTRICITY

℄ BRIDGE

2-3½" DUCT SUPPORT

FACE OF ABUTMENT

℄ BEARINGS

FOR CONC. BRG. PAD & ANCHOR BOLT SETTING SEE DETAIL SH. 20

FOR RAILPOST SPACING, ANCHOR BOLT SETTINGS & RAIL DETAILS SEE SH. 11

Joint SEALER ACROSS ABUT. SEAT AT CONST. JOINT. OPPOSITE END SIMILAR

ANCHOR BOLTS FOR LIGHTING STANDARD ON S. ABUT. ONLY. SEE BOLT DETAIL SH. 23

PLAN
SCALE ¼"=1'-0

PROFILE LINE AT CROWN (TOP OF 2" BIT. WEARING SURFACE) 4% SLOPE

EL. 15.75 S. ABUT.
EL. 15.56 N. ABUT.

℄ 3½" DUCTS - ILLINOIS BELL TELEPHONE CO. TO FURNISH EXPANSION COUPLINGS

SECTION 11-11
ILLINOIS BELL TELEPHONE
SCALE ⅜"=1'-0

PROFILE LINE AT CROWN (TOP OF 2" BIT. WEARING SURFACE) 4% SLOPE

℄ 4" DUCTS-COMMONWEALTH EDISON CO. TO FURNISH EXPANSION COUPLINGS

SECTION 12-12
COMMONWEALTH EDISON
SCALE ⅜"=1'-0

S. ABUT. ELEV.-APP. SLAB 17.98
N. ABUT. ELEV.-APP. SLAB 17.79

12'-0 PARABOLIC ARC

ELEV. SHOWN ARE TO TOP OF 2" BIT. WEARING SURFACE AT END OF APPROACH SLAB.

TOP OF SIDEWALK

S. ABUT. ELEV. 12.91 12.45 12.60 12.41
N. ABUT. ELEV. 12.72 12.26

FOR GUTTER SEE DETAIL SH. 20

℄ 2" DRAIN AT GUTTER SEE SEC. 2-2 SH. 16

BOTTOM OF 2-3½" DUCT SUPPORT (SEE SECT. 1-1 DWG #20)

ELEV. SHOWN ARE TO ℄ OF TOP OF CONCRETE BRG. PADS SEE DETAIL SH. 20

℄ 2" DRAIN

LEVEL SLOPE — SLOPE BRIDGE SEAT — SLOPE BRIDGE SEAT — SLOPE LEVEL

2-FACE OF WINGWALL

NAME PL. See Sh. 37
So. Abut. (W. Face) Sta. 2086
N. Abut. (E. Face) Sta. 2087

EL. +5.00 S. ABUT.
EL. +5.00 N. ABUT.

SEE V-GROOVE DETAIL SH. 17

WATERSTOPS SEE NOTE "A"

NOTE "A"
WATERSTOP INSIDE TO BE 12'-0" LG. OUTSIDE 16'-6" LG. BOTH TO START AT TOP OF FOOTING. SEE DETAIL SH 21

C.C.D. EL. 0.0

8"ø PERFORATED C.M.P.

EL. -2.6

S. ABUT. E. FACE EL. -.85
W. FACE EL. -.74
N. ABUT. E. FACE EL. -.87
W. FACE EL. -.93

DISCHARGE DRAIN ON EAST SIDE FOR N. & S. ABUTMENTS.

FIN. GRADE LINE

EL. -3.5

4'-0 × 4'-0 × 5'-0 POROUS BACKFILL TO TOP OF GROUND AT DISCHARGE END OF PIPE UNDERDRAINS.

FOR PILE SPACING SEE DWG. #12

EL. -8.0 S. ABUT.
EL. -8.0 N. ABUT.

ELEVATION OF S. ABUTMENT
N. ABUTMENT SIMILAR & OPP. HAND
SCALE ¼"=1'-0

S. ABUT. 18.39
N. ABUT. 18.20

TOP OF SIDEWALK

CONSTRUCTION JT.
S. ABUT. EL. 15.75
N. ABUT. EL. 15.56

UNFORM SLOPE CAP OF WINGWALLS

CORRUGATED CONC. SURFACE SEE DETAIL SH. 11

TOP OF WATER PROOFING ON BACK OF ABUTMENT & WINGWALL

LINE OF GRANULAR BACKFILL ELEV. ℄ 6.0 BETWEEN WINGS

FIN. EXPRESSWAY GRADE LINE AT FACE OF WINGWALL ALSO BETWEEN WINGS

FIN. GRADE LINE BETWEEN E & W WINGWALLS

8"ø PERFORATED C.M.P.

EL. +6.5

EL. +7.0

EL. +2.0 S. ABUT.
EL. +2.0 N. ABUT.

EL. -3.0 S. ABUT.
EL. -3.0 N. ABUT.

1:2.5 W. SIDE
1:3.5 E. SIDE

EL. -8.0 S. ABUT.
EL. -8.0 N. ABUT.

ELEVATION OF WINGWALLS
SCALE ¼"=1'-0

FOR WATERPROOFING ON BACK OF ABUTMENT & ABUTMENT-WING WALL SEE ILLINOIS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. INCLUDE WATERPROOFING IN COST OF CLASS-X CONCRETE.

8"ø PERFORATED C.M.P. SHALL BE PAID FOR AS PIPE UNDERDRAINS. 8"

8"PERF. CMP

WATERSTOP

½" PREMOULDED JOINT

℄ BEARINGS

FACE OF WINGWALL

FOR CONST. JOINT SEE DWG. #12

5'-0 | 31'-2 | 31'-2 | 5'-0 = 72'-4

FOOTING PLAN
SCALE ¼"=1'-0

NOTE:
BOTH ABUTMENTS ARE IDENTICAL.
ALL FOUR WINGSWALLS IDENTICAL.

10'-0 | 10'-0 | 14'-0 | 19'-0 = 53'-0

FACE OF ABUTMENT

CONSTRUCTION JT. SEE DWG. #12

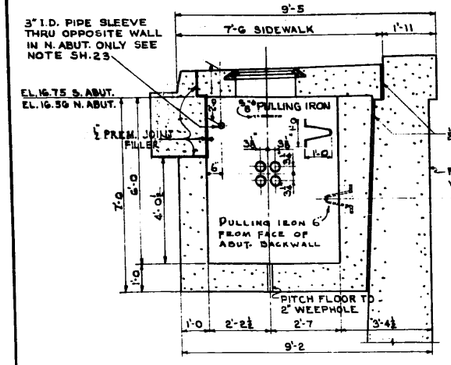
SEE SHS 21 & 22 FOR REINFORCEMENT
SEE SH. 20 FOR SECTIONS.

FOOTING PLAN
SCALE ¼"=1'-0

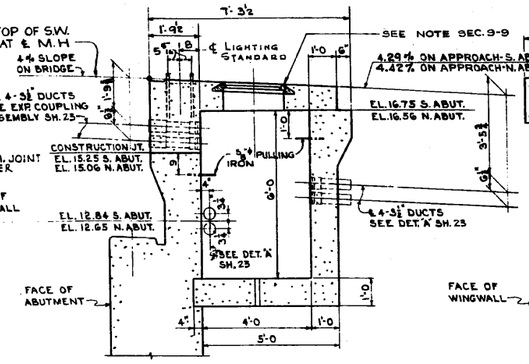
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY SASSAMAN-H.W. LYON
DRAWN BY H.W. LYON
CHECKED R.E. HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8
ABUTMENT & WINGWALL PLANS & ELEVATIONS
SCALE: AS NOTED

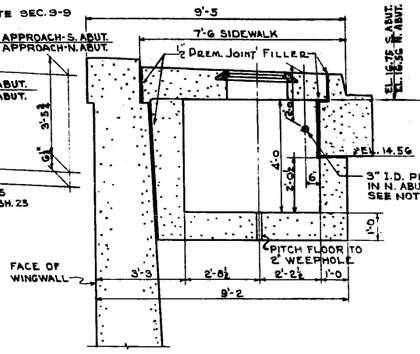
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	20
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		



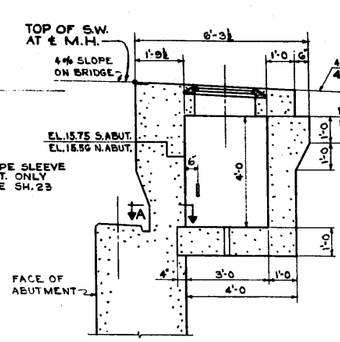
SECTION 3-3
SCALE 3/8"=1'-0



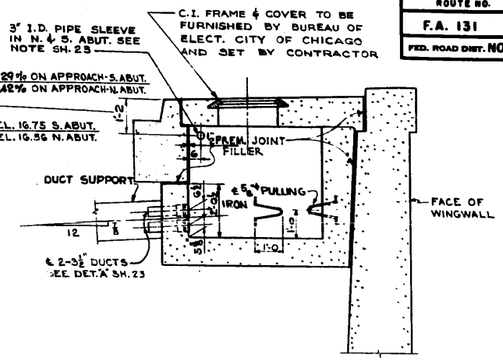
SECTION 4-4
SCALE 3/8"=1'-0



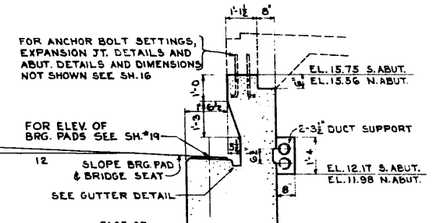
SECTION 5-5
SCALE 3/8"=1'-0

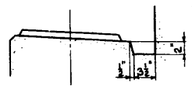


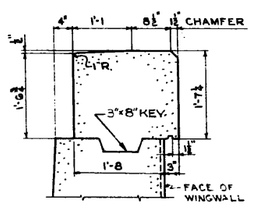
SECTION 6-6
SCALE 3/8"=1'-0



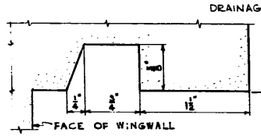
SECTION 9-9
SCALE 3/8"=1'-0



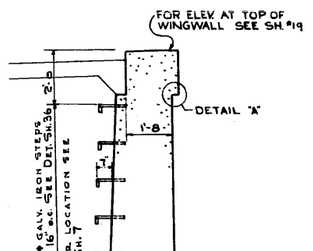


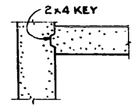


CAP DETAIL
SCALE 3/4"=1'-0

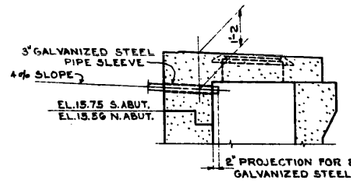


DETAIL 'A'
FULL SIZE

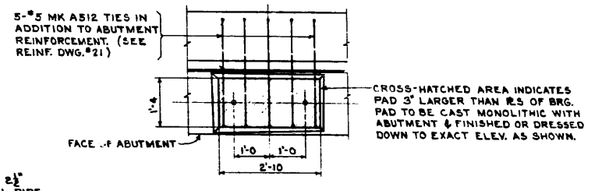




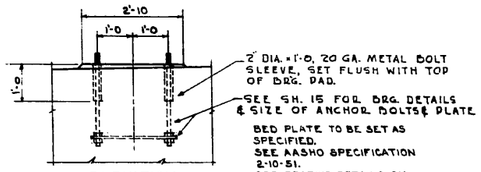
SECTION A-A
SHOWING KEY IN WALL
SCALE 3/8"=1'-0



SECTION 10-10
SCALE 3/8"=1'-0

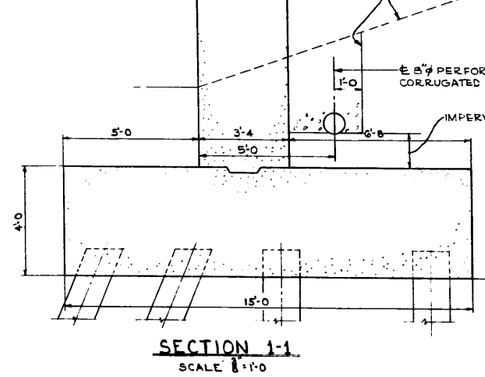


PLAN

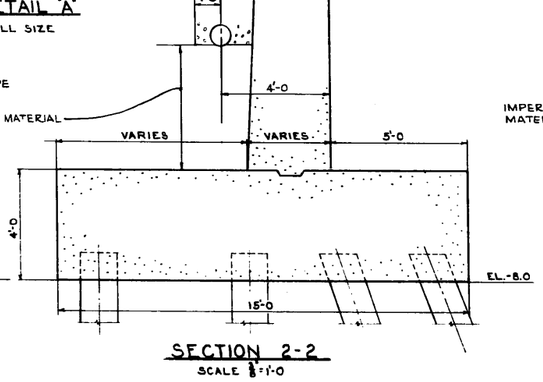


ELEVATION

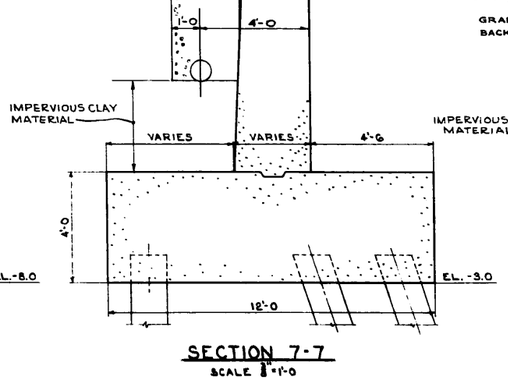
BEARING PAD
SCALE 3/4"=1'-0



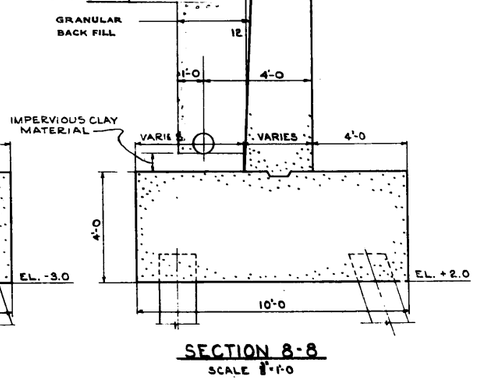
SECTION 1-1
SCALE 3/8"=1'-0



SECTION 2-2
SCALE 3/8"=1'-0



SECTION 7-7
SCALE 3/8"=1'-0



SECTION 8-8
SCALE 3/8"=1'-0

FOR LOCATION OF SECTION 1-1 THRU 9-9 SEE SH. NO. 19

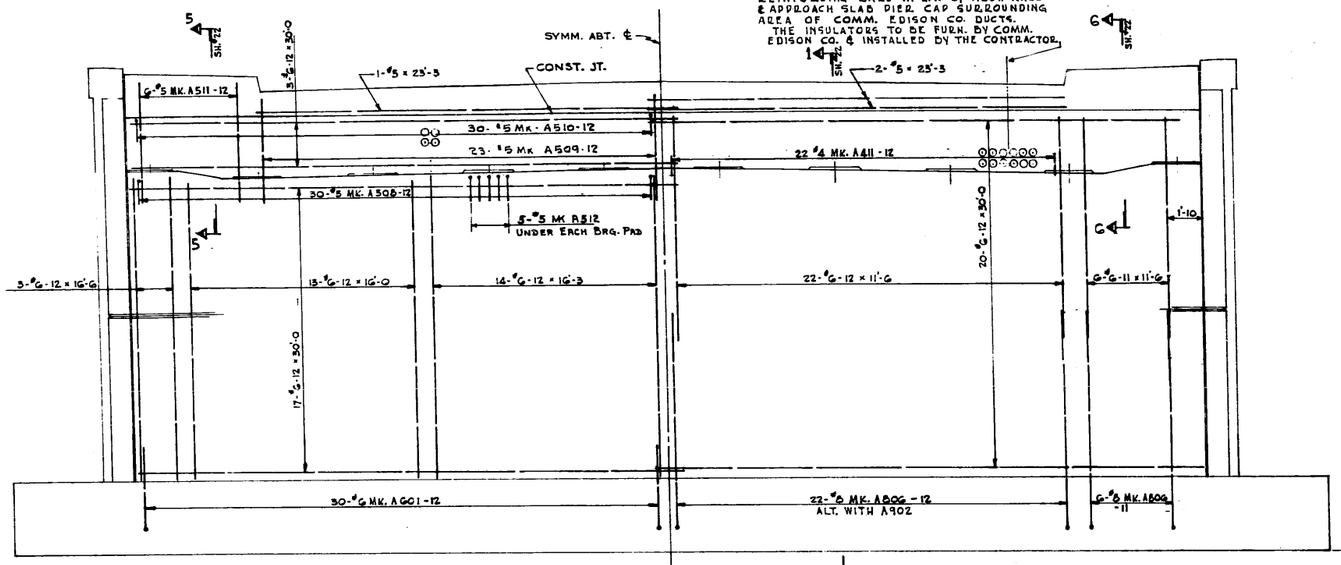
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY SASSAMAN-H.W. LYON
DRAWN BY H.W. LYON
CHECKED R.E. HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8

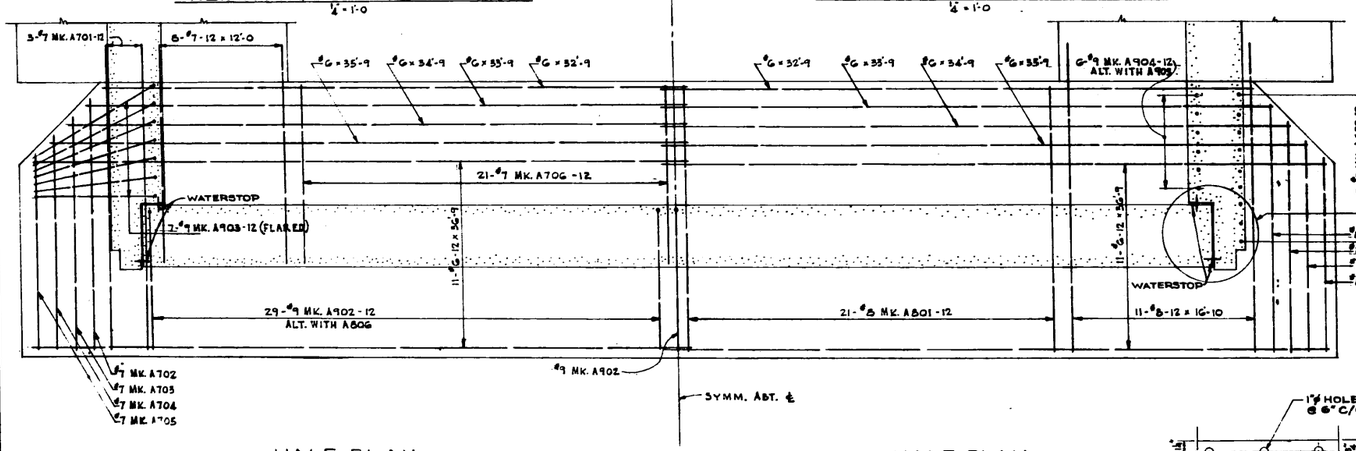
ABUTMENT & WINGWALL SECTIONS

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	21
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		



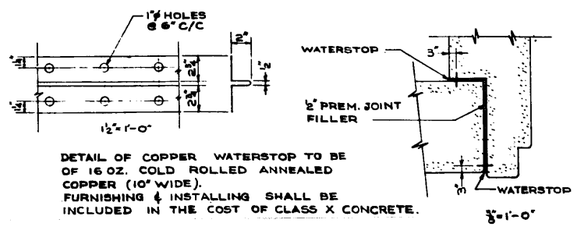
HALF-ELEVATION
REINF. FRONT FACE OF ABUT.
¼" = 1'-0



HALF-PLAN
REINF. IN BOTT. OF FTG.
¼" = 1'-0

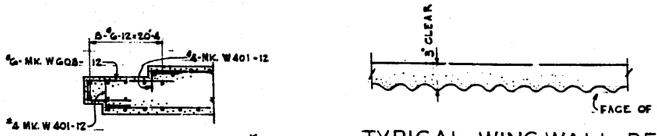
HALF-ELEVATION
REINF. REAR FACE OF ABUT.
¼" = 1'-0

HALF-PLAN
REINF. IN TOP OF FTG.
¼" = 1'-0



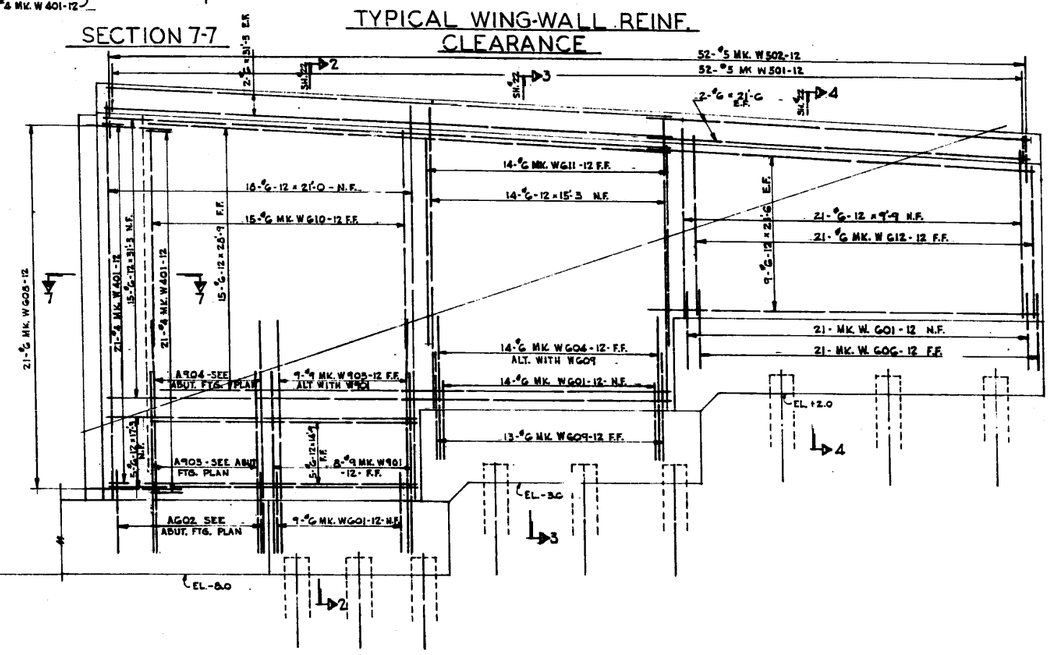
DETAIL OF COPPER WATERSTOP TO BE OF 16 OZ. COLD ROLLED ANNEALED COPPER (10" WIDE). FURNISHING & INSTALLING SHALL BE INCLUDED IN THE COST OF CLASS X CONCRETE.

DETAIL "A"

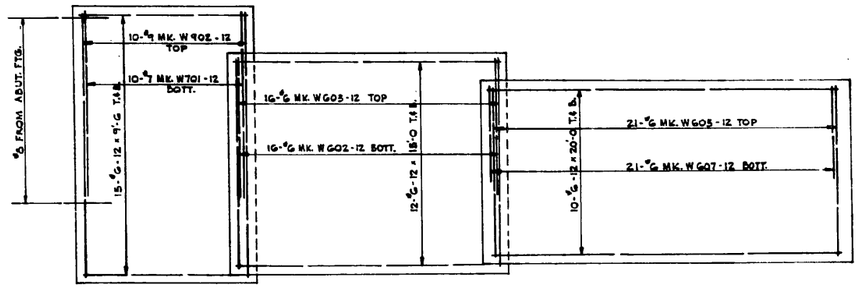


SECTION 7-7

TYPICAL WING-WALL REINF.
CLEARANCE



TYPICAL WING-WALL ELEVATION
¼" = 1'-0



TYPICAL WING-WALL FTG. PLAN
¼" = 1'-0

CLASS 'X' CONCRETE IN 2 ABUTMENTS 610 c.y.
REINFORCEMENT BARS IN 2 ABUTMENTS 48,285#

CLASS 'X' CONCRETE IN 4 WINGWALLS 642 c.y.
REINFORCEMENT BARS IN 4 WINGWALLS 43,579#

SEE SHEET Nº 7 FOR NOTES ON CONCRETE AND REINFORCEMENT.

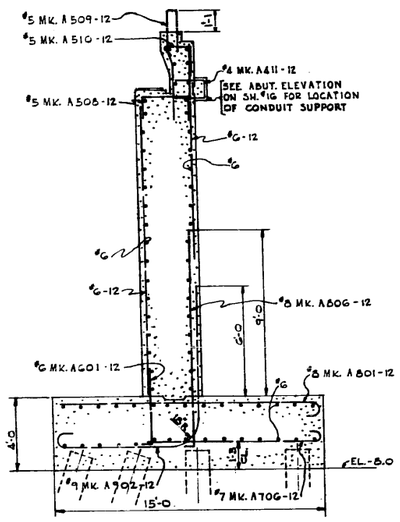
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY SASSAMAN-H.W. LYON
DRAWN BY W.C. KUTAY
CHECKED R.E. HEWITSON
IN CHARGE J.B. Lyon

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8

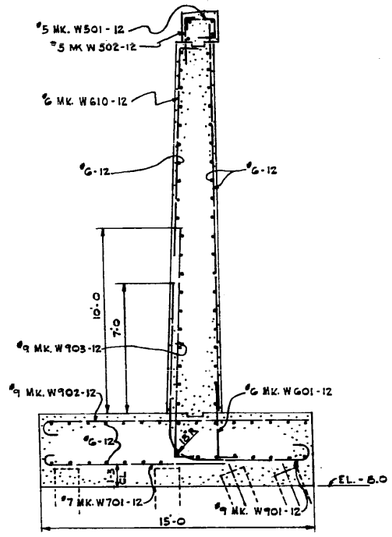
ABUTMENT & WINGWALL REINFORCEMENT

SCALE: AS NOTED

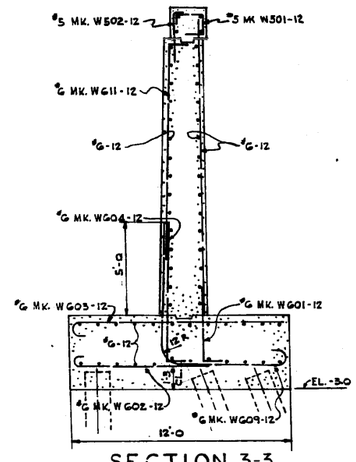
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	22
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(71)		



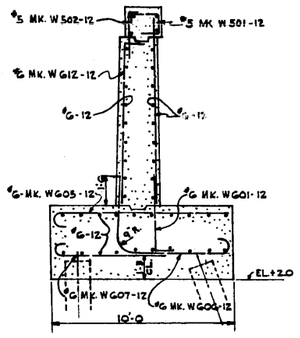
SECTION 1-1
1/4" = 1'-0



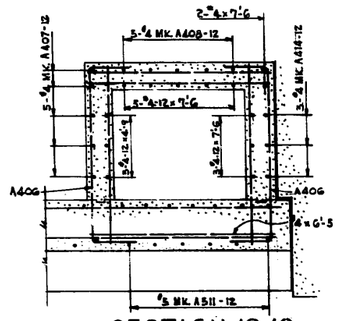
SECTION 2-2
1/4" = 1'-0



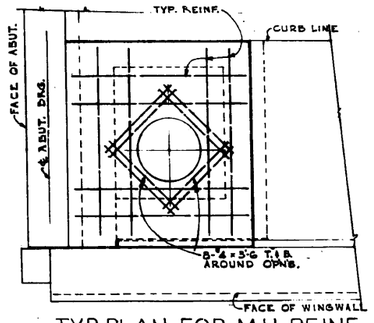
SECTION 3-3
1/4" = 1'-0



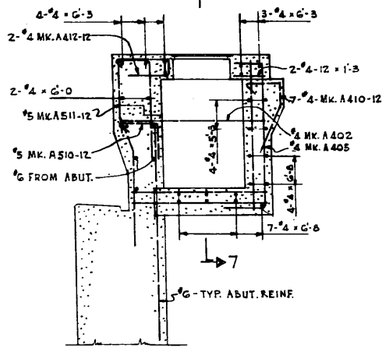
SECTION 4-4
1/4" = 1'-0



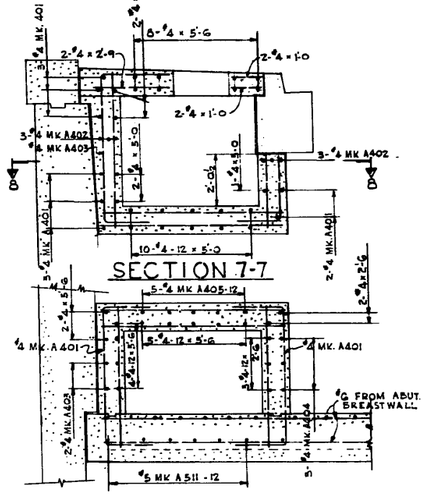
SECTION 10-10
3/8" = 1'-0



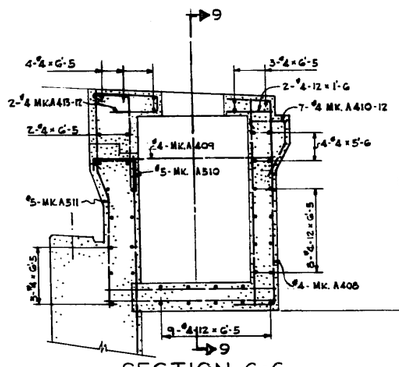
TYP. PLAN FOR M.H. REINF.
3/8" = 1'-0



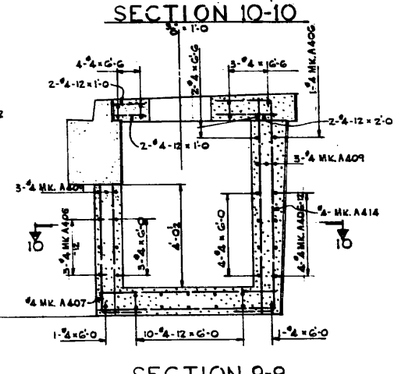
SECTION 5-5
3/8" = 1'-0



SECTION 8-8
3/8" = 1'-0



SECTION 6-6
3/8" = 1'-0



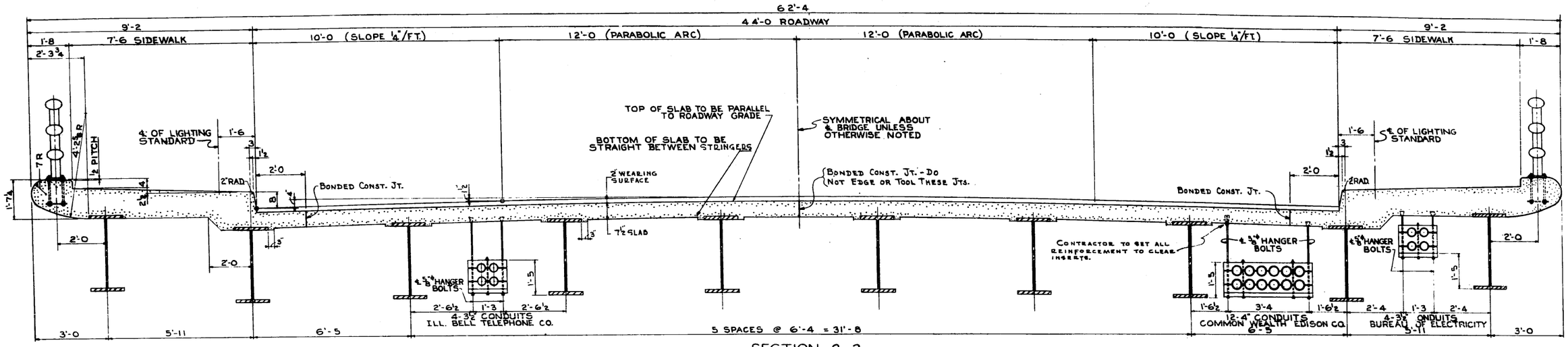
SECTION 9-9
3/8" = 1'-0

NOTE:
FOR LOCATION OF SECTIONS 1-1, 2-2, 3-3, 4-4, 5-5 & 6-6 SEE SH. #21.
SEE SHEET No 7 FOR NOTES ON CONCRETE AND REINFORCEMENT.

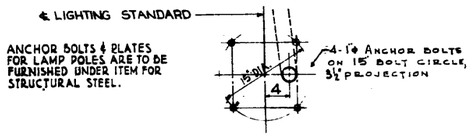
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY SASSAMAN - H.W. LYON
DRAWN BY M.C. KUTAY
CHECKED R.E. HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8
ABUTMENT & WINGWALL
REINFORCEMENT OF SECTIONS
SCALE: AS NOTED

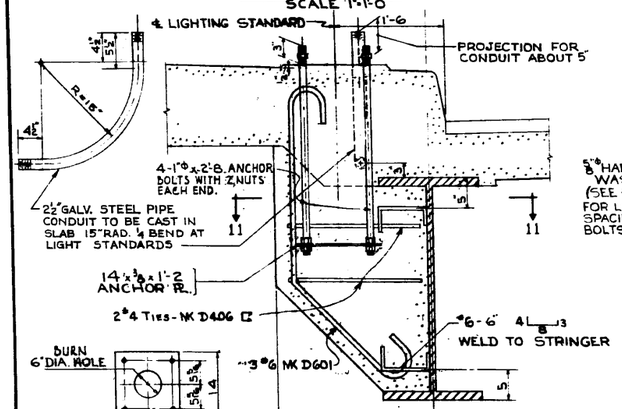
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8 3-F-8	COOK	38	23
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.L261(71)		



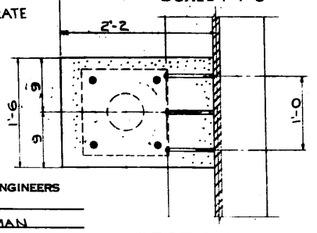
SECTION 2-2
SEE SH. 13
SCALE 1/2"=1'-0



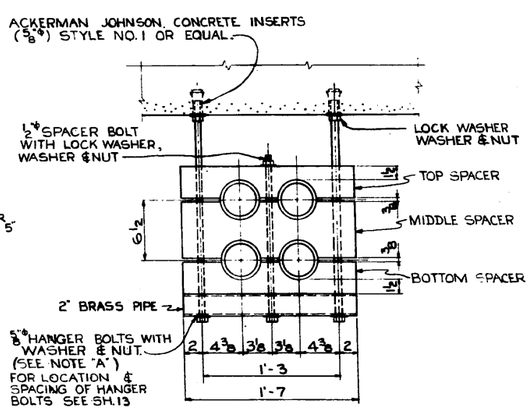
ANCHOR BOLT & CONDUIT SETTING PLAN
SCALE 1"=1'-0



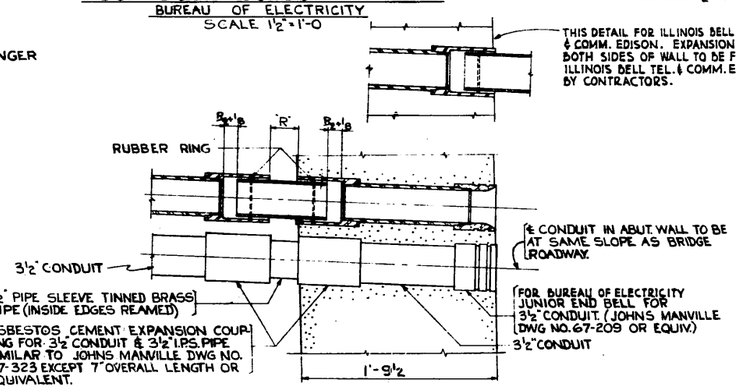
SECTION 4-4
SEE SH. 10
SCALE 1"=1'-0



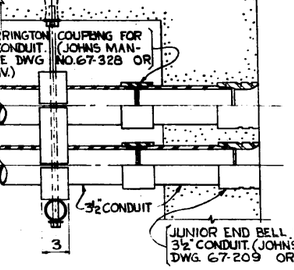
SECTION 11-11
SCALE 1"=1'-0



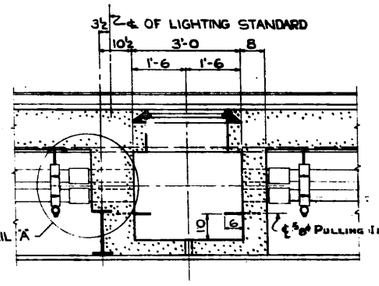
FOUR-DUCT CONDUIT HANGER
BUREAU OF ELECTRICITY
SCALE 1 1/2"=1'-0



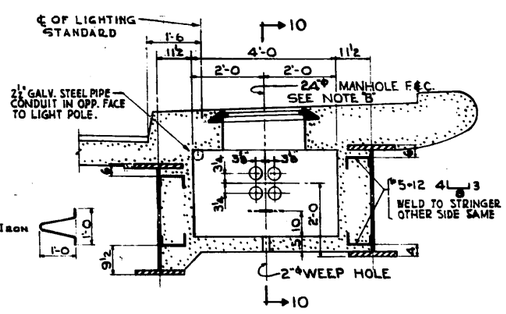
EXPANSION COUPLING ASSEMBLY AT ABUTMENT
FOR BUREAU OF ELECTRICITY AS SHOWN
FOR COMM. EDISON AS SHOWN & NOTED ABOVE
SCALE 1 1/2"=1'-0"



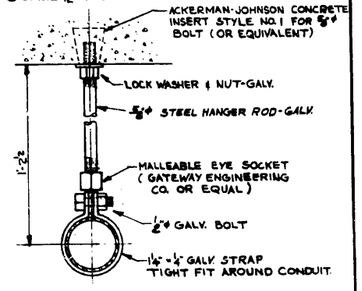
DETAIL "A"
SCALE 1 1/2"=1'-0"



SECTION 10-10
SCALE 1/2"=1'-0



SECTION 3-3
SEE SH. 13
SCALE 1/2"=1'-0



DETAIL OF 2 1/2" CONDUIT HANGER
SCALE 3"=1'-0"

NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL REQUIRED BY THE BUREAU OF ELECTRICITY FOR THE BRIDGE PROPER, WITHIN THE LIMITS SHOWN ON SH. NO. 4, 6 & 7 EXCEPT THE ELECTRICAL MANHOLE FRAMES & COVERS AND THE LAMP POLES.
2. THE COMMON WEALTH EDISON CO. AND ILLINOIS BELL TELEPHONE CO. WILL FURNISH TO THE CONTRACTOR CONCRETE INSERTS AND ABUTMENT EXPANSION COUPLINGS FOR INSTALLATION AS PART OF THE BRIDGE CONTRACT.
3. ALL CONDUIT, CONDUIT COUPLINGS AND SPACERS TO BE JOHNS MANVILLE TRANSITE OR EQUAL. HOLES IN BRASS PIPE AND SPACERS TO BE DRILLED 3/4" FOR 5/8" BOLTS AND 5/8" FOR 1/2" BOLTS.
4. (A) ALL HANGER AND SPACER BOLTS, WASHERS AND NUTS SHALL BE STAINLESS STEEL. CUT HANGER BOLT FLUSH WITH LOWER NUT, PEEN, CENTER PUNCH OR SPOT WELD AT THREAD LINE TO PREVENT NUT FROM TURNING.
   (B) THE BUREAU OF ELECTRICITY WILL FURNISH THE 24"℄ MANHOLE FRAMES AND COVERS, DWG 10797 TO THE CONTRACTOR FOR INSTALLATION AS PART OF THE BRIDGE CONTRACT. (FOR THE FIVE ELECTRICAL MANHOLES)
5. CONTRACTOR TO PROVIDE 3" INSIDE DIA. GALV. IRON PIPE SLEEVES THRU ABUTMENT BACK WALL & ELECT. MANHOLE WALLS AT LOCATIONS REQUIRED FOR EXP. SLEEVES FOR 2 1/2" GALV. IRON PIPE CONDUIT.

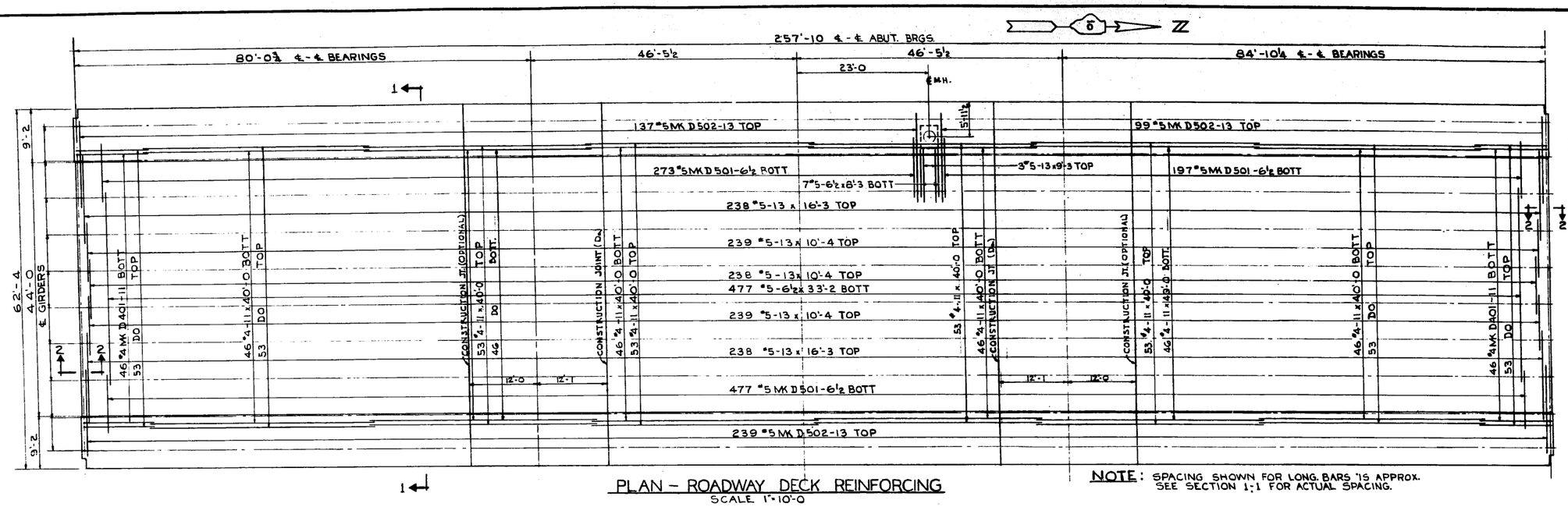
DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY
DRAWN BY J.R. SASSAMAN
CHECKED O. NELSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-B-8 3-F-8

CONCRETE DECK DETAILS

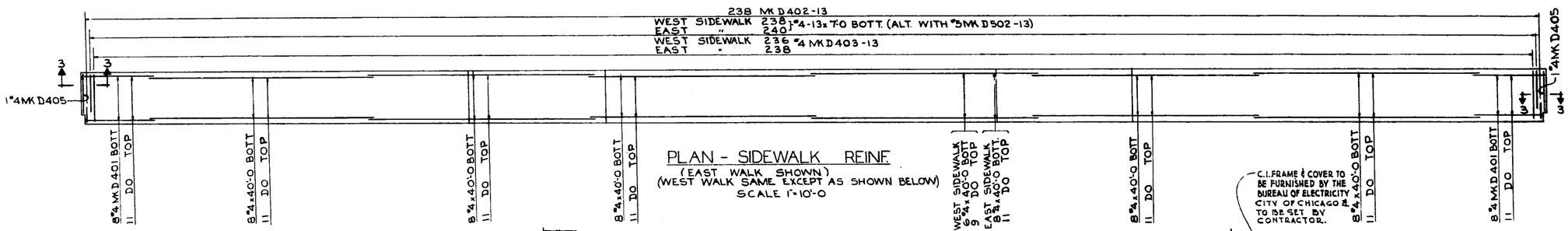
SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-8-8	COOK	38	24
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		

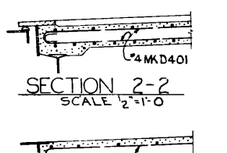


PLAN - ROADWAY DECK REINFORCING
SCALE 1"=10'-0

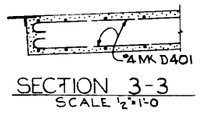
NOTE: SPACING SHOWN FOR LONG. BARS IS APPROX. SEE SECTION 1-1 FOR ACTUAL SPACING.



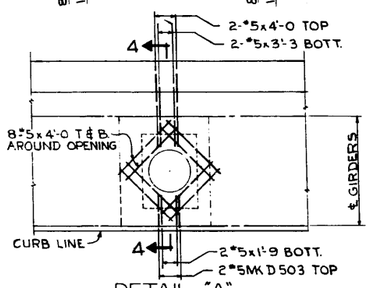
PLAN - SIDEWALK REINF.
(EAST WALK SHOWN)
(WEST WALK SAME EXCEPT AS SHOWN BELOW)
SCALE 1"=10'-0



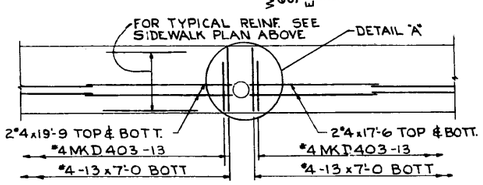
SECTION 2-2
SCALE ½"=1'-0



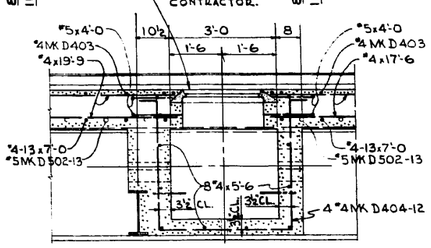
SECTION 3-3
SCALE ½"=1'-0



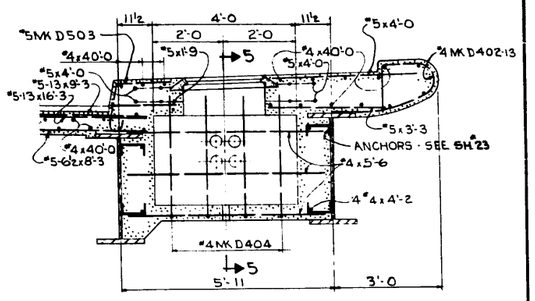
DETAIL "A"
SCALE 4"=1'-0



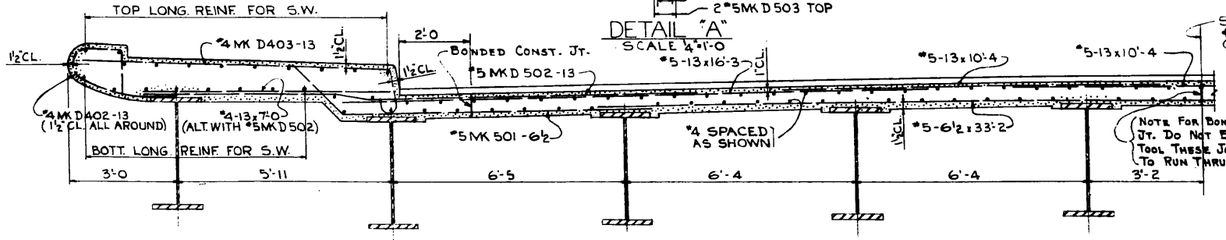
PLAN - WEST WALK AT M.H.
SCALE 1"=10'-0



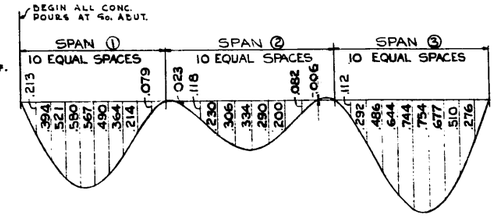
SECTION 5-5
SCALE ½"=1'-0



SECTION 4-4
SCALE ½"=1'-0

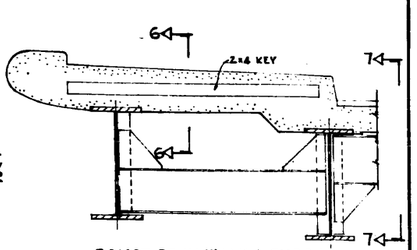


SECTION 1-1
SCALE ½"=1'-0

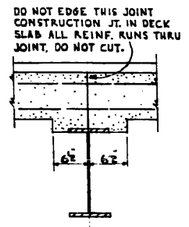


DEAD LOAD DEFLECTION FOR CONCRETE

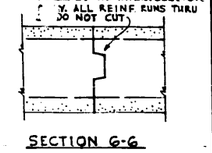
DEAD LOAD DEFLECTIONS (INCHES) TO BE ADDED TO THEORITICAL ELEVATIONS.



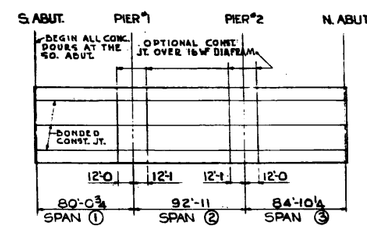
CONST. JT. IN WALK & CURB
FOR LOCATION SEE DECK PLAN THIS SH.
1"=1'-0



SECTION 7-7



SECTION 6-6



DECK CONST JOINTS

CLASS 'X' CONCRETE IN DECK 475 C.Y.
REINFORCEMENT BARS IN DECK 82,028 #

SEE SHEET No 7 FOR NOTES ON CONCRETE AND REINFORCEMENT.
SEE SHEET No 25 FOR REINFORCEMENT BAR LIST
SEE SHEET No 13 & SHEET No 23 FOR LOCATION OF CONDUITS & INSERTS & DETAILS OF CONSTRUCTION.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY W.C. KUTAV
DRAWN BY J.R. SASSAMAN
CHECKED RAY HEWITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
LEAVITT STREET BRIDGE
SECTION 3-8-8

CONCRETE DECK REINFORCEMENT

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8	COOK	38	25
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		

STRAIGHT BAR SCHEDULE

ITEM	NO. OF BARS	SIZE	LENGTH	WEIGHT
	ABUTMENT REINF.			
	16	#4	1'-0	
	4		1'-3	
	4		1'-6	
	4		2'-0	
	10		2'-6	
	4		2'-9	
	64		5'-6	
	6		4'-9	
	26		5'-0	
	50		5'-6	
	8		5'-8	
	42		6'-0	
	14		6'-3	
	58		6'-5	
	18		6'-6	
	22		6'-8	
	20	#4	7'-6	
			WEIGHT #4 BARS	1271
	12	#5	25'-3	291
	112	#6	11'-6	
	52		16'-0	
	56		16'-3	
	12		16'-6	
	160		30'-0	
	8		32'-9	
	8		33'-9	
	8		34'-9	
	8		35'-9	
	88	#6	36'-9	
			WEIGHT #6 BARS	18562
	32	#7	12'-0	705
	44	#8	16'-10	1577
	WING-WALL REINF.			
	120	#6	9'-6	
	84		9'-9	
	20		14'-9	
	96		15'-0	
	56		15'-3	
	20		17'-3	
	60		20'-0	
	32		20'-4	
	72		21'-0	
	88		21'-6	
	60		28'-9	
	76	#6	31'-3	
			WEIGHT #6 BARS	22001
	DECK REINF.			
	4	#4	4'-2	
	8		5'-6	
	478		7'-0	
	4		17'-6	
	4		19'-9	
	818	#4	40'-0	
			WEIGHT #4 BARS	24232
	2	#5	1'-9	
	2		3'-3	
	18		4'-0	
	7		6'-3	
	3		9'-3	
	716		10'-4	
	476		16'-3	
	477	#5	35'-2	32459

ITEM	NO. OF BARS	SIZE	LENGTH	WEIGHT
	PIER REINF.			
	16	#5	5'-6	
	16	#5	6'-6	
	16	#5	24'-9	
			WEIGHT #5 BARS	580
	24	#6	6'-6	
	128		9'-0	
	12		9'-6	
	112		18'-0	
	56		18'-3	
	84		24'-6	
	48	#6	32'-0	
			WEIGHT #6 BARS	12728
	16	#10	15'-0	
	8	#10	24'-9	
			WEIGHT #10 BARS	1885
	APPROACH REINF.			
	8	#4	2'-6	
	42		9'-9	
	8		10'-0	
	8		12'-0	
	8		19'-0	
	88		19'-6	
	20	#4	20'-6	
			WEIGHT #4 BARS	1926
	160	#5	2'-6	
	32	#5	19'-6	
	206	#5	20'-6	
			WEIGHT #5 BARS	5473
	16	#8	19'-6	833
	32	#9	6'-6	
	8	#9	6'-0	
	16	#9	23'-3	
	16	#9	25'-3	
			WEIGHT #9 BARS	3291

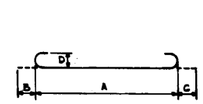
BENT BAR SCHEDULE

ITEM	NO. OF BARS	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	PIN DIA.	WEIGHT
	ABUTMENT REINF.												
	16	#4	5'-6	A401	B	5'-0	1'-9	1'-9					
	12		6'-0	A402	B	5'-6	6	0					
	4		9'-7	A403	B	5'-7	1'-6	2'-6					
	6		6'-2	A404	B	2'-8	1'-6	0					
	10		7'-11	A405	B	5'-5	1'-6	1'-0					
	16		9'-0	A406	B	6'-0	1'-6	1'-6					
	10		6'-2	A407	B	4'-8	0	1'-6					
	10		10'-3	A408	B	7'-3	1'-6	1'-6					
	12		7'-0	A409	B	6'-6	6	0					
	28		5'-6	A410	M	4½	1'-2	8	1'-3½	7	1'-2		
	88		6'-0	A411	B	1'-0	1'-6	1'-6					
	4		6'-5	A412	M	-5	1'-10	8	1'-6	0	0		
	4		5'-2	A413	M	5	2'-4	8	1'-9	0	0		
	6	#4	11'-0	A414	B	7'-6	2'-0	1'-6					
												WEIGHT #4 BARS	807
	120	#5	6'-6	A508	B	3'-0	1'-9	1'-9					
	92		8'-8	A509	K	2'-3½	1'-4	2'-1	6	1'-5	-9½		
	120		3'-1	A510	F	1'-5	1'-3	5	0				
	24		11'-1	A511	K	2'-3	1'-4	3'-0	6	1'-5	1'-5		
	100	#5	6'-0	A512	B	3'-0	1'-6	1'-6					
												WEIGHT #5 BARS	2934
	120	#6	5'-3	AG01	B	4'-3	1'-0	0					
	36		5'-3	AG02	B	4'-3	1'-0	0					
												WEIGHT #6 BARS	1230
	12	#7	17'-8	A701	A	16'-10	-10	0	-7			-5	
	4		15'-2	A702	A	15'-6	10	10	7			5	
	4		18'-2	A703	A	12'-6	10	10	7			5	
	4		13'-2	A704	A	11'-6	10	10	7			5	
	4		12'-2	A705	A	10'-6	10	10	7			5	
	84	#7	10'-9	A706	A	9'-11	10	0	7			5	
												WEIGHT #7 BARS	2726
	84	#8	15'-9	A801	A	14'-8	1'-1	0	10			-8	
	4		14'-9	A802	A	13'-8	1'-1	0	10			8	
	4		13'-9	A803	A	12'-8	1'-1	0	10			8	
	4		12'-9	A804	A	11'-8	1'-1	0	10			8	
	4		11'-9	A805	A	10'-8	1'-1	0	10			8	
	112	#8	12'-9	A806	B	11'-9	1'-0	0					
												WEIGHT #8 BARS	7911
	118	#9	17'-2	A902	G	6'-6	2'-6	7'-3	1'-1	10	0	RAD. 10 PIN DIA. 5	
	28	#9	15'-0	A903	G	6'-3	2'-6	6'-6	1'-1	10	5	RAD. 10 PIN DIA. 5	
	24	#9	15'-10	A904	H	1'-0	12'-10	8					
												WEIGHT #9 BARS	9731
	WING-WALL REINF.												
	168	#4	2'-0	W401	B	1'-0	1'-0	0					225
	208	#5	4'-4	W501	P	6"	1'-7	1'-3	1'-0				
	208	#5	3'-2	W502	B	2'-8	6"	0					
												WEIGHT #5 BARS	1627
	176	#6	5'-3	WG01	B	4'-3	1'-0	0					
	64		8'-0	WG02	A	7'-4	8	0	6			-5	
	64		12'-4	WG03	A	11'-8	8	0	6			5	
	56		8'-10	WG04	N	1'-0	7'-10	5					
	84		10'-4	WG05	A	9'-8	8	0	6			5	
	84		10'-10	WG06	G	5'-6	1'-2	3'-6	8	6	2	RAD. 6 PIN DIA. 5	
	84		6'-3	WG07	A	5'-7	8	0	6			5	
	84		8'-1	WG08	B	-10	2'-3	5'-0					
	52		14'-10	WG09	G	5'-10	1'-7	6'-9	8	6	4	RAD. 10 PIN DIA. 5	
	60		12'-6	WG10	B	1'-0	11'-6	0					
	56		12'-0	WG11	B	1'-0	11'-0	0					
	84	#6	9'-4	WG12	B	1'-0	8'-4	0					
												WEIGHT #6 BARS	13034
	40	#7	11'-0	W701	A	11'-2	10	0	7			5	899

BENT BAR SCHEDULE

ITEM	NO. OF BARS	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	PIN DIA.	WEIGHT
	WING-WALL REINF.												
	32	#9	18'-0	W901	G	6'-3	2'-4	8'-4	1'-1	-10	-5	RAD. 10 PIN DIA. 5	
	40	#9	15'-9	W902	A	14'-8	1'-1	-0	-10			8"	
	36	#9	13'-10	W903	N	1'-0	12'-10	8					
												WEIGHT #9 BARS	5793
	DECK REINF.												
	274	#4	13'-3	D401	A	12'-9	-6	0	-4			5"	
	476		5'-11⅛"	D402	R			SEE DETAIL TYPE "R"					
	474		9'-11	D403	S	8'-4	1'-1	-6	-6	-3	-2½	5"	
	4		11'-10	D404	T	3'-8	5'-7	-6					
	4	#4	8'-2	D405	S	6'-7	1'-1	-6	-6	-3	-2½	5"	
	6	#4	5'-7	D406	Z	1'-10	1'-2	1'-10	4½				
												WEIGHT #4 BARS	7531
	947	#5	10'-3	D501	K	8'-6	1'-3	0	1'-3	1'-9	0		
	475	#5	15'-4	D502	K	9'-0	-8	5'-8	-2	8	0		
	2	#5	3'-1	D503	S	1'-6	1'-1	-6	-5	0	2½	6"	
												WEIGHT #5 BARS	17725
	9	#6	6'-0	D601	Y	8	2'-8	2'-0	1'-7½	6		WEIGHT #6 BARS	81
	PIER REINF.												
	40	#3	6'-11	P301	E	2'-2	0'-11½	-6					
	40	#3	3'-6	P302	A	2'-8	0'-8	-5	3			2"	
												WEIGHT #3 BARS	157
	20	#5	6'-8	P501	C	1'-5	4'-2	1'-3	2'-8			RADIUS	
	120		11'-4	P502	E	1'-8	3'-7	-5					
	56		11'-0	P503	E	1'-8	3'-5	-5					
	40		13'-2	P504	F	9'-8	2'-8	-5	-5				
	40		11'-8	P505	E	3'-7	1'-10	-5					
	20		9'-10	P506	E	1'-10	2'-8	-5					
	100		5'-8	P507	B	2'-8	1'-6	1'-6					
	52	#5	6'-8	P508	B	2'-8	2'-0	2'-0					
												WEIGHT #5 BARS	4394
	252	#6	5'-0	PG01	B	4'-6	0'-6	-					
	40	#6	9'-2	PG02	C	1'-6	4'-2	1'-6	2'-8			RADIUS	
	64	#6	7'-1	PG03	D	2'-5	-1¼	1'-3½	1'-3½	2'-5	2'-6½		
												WEIGHT #6 BARS	3004
	128	#9	15'-9	P901	A	11'-7	1'-1	1'-1	-10			8"	5984
	24	#10	31'-6	P1001	B	28'-6	3'-0						
	24	#10	10'-6	P1002	H	7'-6	1'-9	1'-3	-11¼	8"		5"	
												WEIGHT #10 BARS	4337
	APPROACH REINF.												
	104	#4	12'-5	C401	E	2'-8	5'-2	4½					
	8		13'-11"	C402	E	2'-8	5'-11	4½					
	20		11'-0	C403	U	2'-8	5'-2	-6"	-6"				
	4		12'-6	C404	U	2'-8	5'-11	-6"	-6"				
	4		13'-8	C405	U	2'-8	6'-6	-6"	-6"				
	4		15'-1	C406	E	2'-8	6'-6	-6½					
	8		11'-3	C407	E	2'-8	2'-7	-6½					
	4		9'-10	C408	U	2'-8	2'-7	-6"	-6"				
	8		14'-9	C409	E	2'-8	6'-4	-6½					
	4	#4	15'-4	C410	U	2'-8	6'-4	-6"	-6"				
												WEIGHT #4 BARS	1395
	16	#9	25'-9	C901	B	22'-9	1'-0	0					
	8		11'-9	C902	X	7'-9	4'-0	0	2'-10				
	16		21'-9	C903	B	20'-9	1'-0	0					
	8	#9	10'-8	C904	X	2'-8	4'-0	4'-0	2'-10				
												WEIGHT #9 BARS	3085
	160	#3	4'-10	AS301	E	7"	1'-6	4"					
	160	#3	2'-10	AS302	L	1'-3	3½	1'-3½	2½	1'-3			
												WEIGHT #3 BARS	461
	160	#5	7'-0	AS501	W	1'-7	1'-10	6"	1'-10	1'-3			
	160	#5	7'-9	AS502	A	4'-7	7"	7"	5"				
												WEIGHT #5 BARS	2461
	868	#8	21'-10	AS801	A	19'-8	1'-1	1'-1	10"				
	58	#8	20'-9	AS802	A	19'-8	1'-1	0	10"			WEIGHT #8 BARS	24665

TYPE "A"



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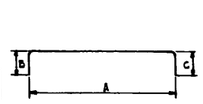

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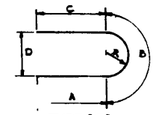

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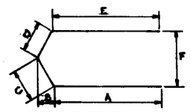

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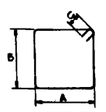

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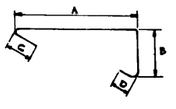

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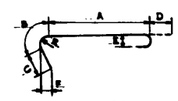

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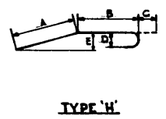

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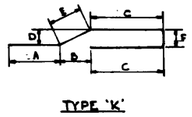

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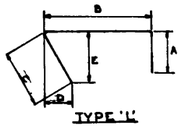

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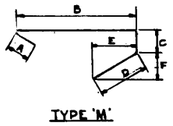

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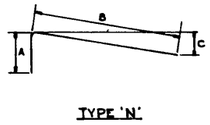

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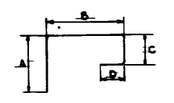

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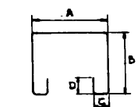

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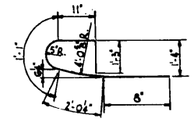

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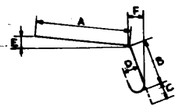

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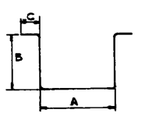

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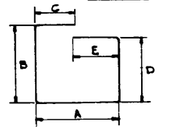

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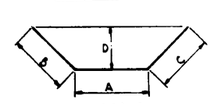

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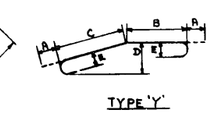

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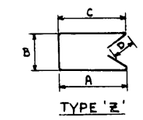

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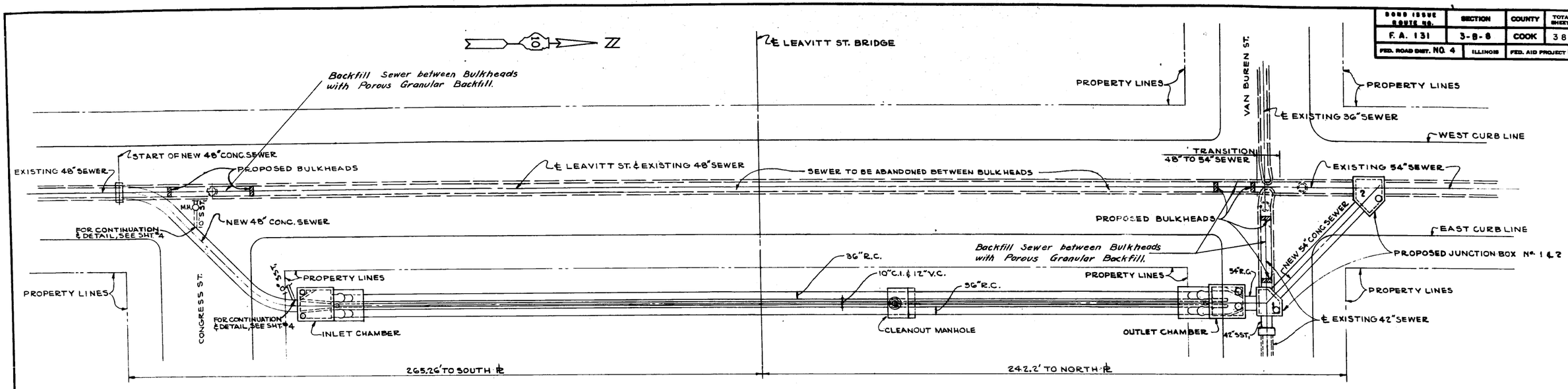
LEAVITT STREET BRIDGE

SECTION 3-B-8

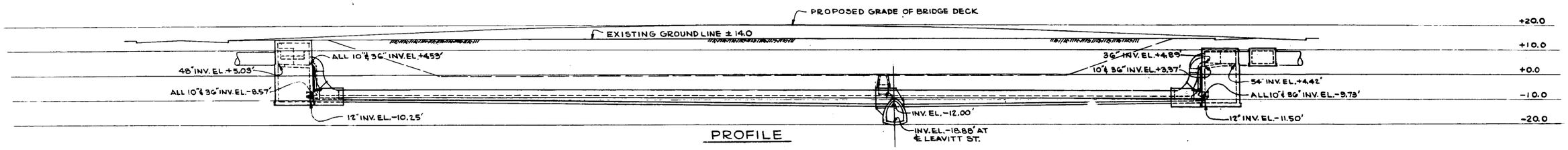
REINFORCEMENT BAR LIST

SCALE: AS NOTED

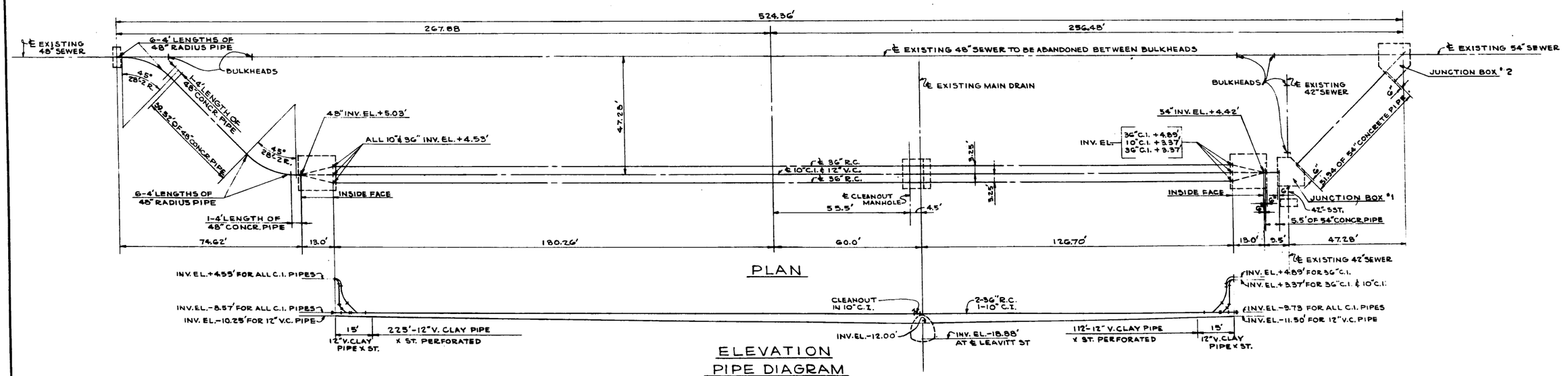
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-8-8	COOK	38	26
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(71)		



GENERAL PLAN



PROFILE



ELEVATION
PIPE DIAGRAM

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY F. DUDSKY I. H. LUKE
DRAWN BY G. UJIIYE
CHECKED I. H. LUKE
IN CHARGE

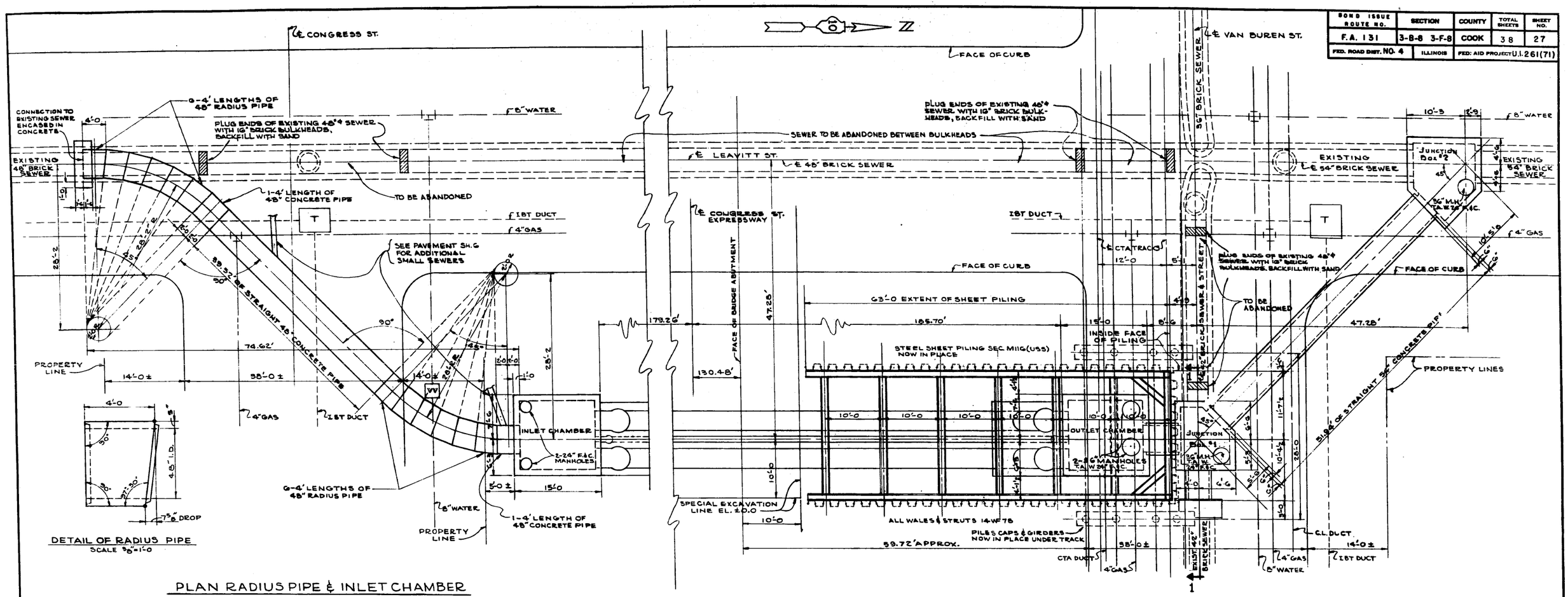
CONGRESS STREET EXPRESSWAY
LEAVITT STREET SIPHON
SECTION 3-8-8

GENERAL PLAN

SCALE: AS NOTED 1" = 20'-0

Revised 6-10-53 M.J.H.

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-8 3-F-8	COOK	38	27
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(71)		



PLAN RADIUS PIPE & INLET CHAMBER

SCALE 1/8"=1'-0

COFFERDAM & OUTLET CHAMBER CONSTRUCTION PROCEDURE

INSTALL WALES AND STRUTS AS EXCAVATION PROCEEDS.

POUR BASE SLAB.

INSTALL LOWER SECTIONS OF PIPE SHOWN IN ENCASEMENT AND FORM WALLS AND FLOOR SLAB OF LOWER CHAMBER UP TO 4 INCHES BELOW EL.+4.42, +4.89 AND +3.37.

POUR WALLS AND FLOOR SLAB ALSO ENCASEMENT OF PIPES AS SHOWN.

SHORE AND BLOCK AGAINST WALL FOR REMOVAL OF S2.
SHORE AND BLOCK AGAINST FLOOR SLAB FOR REMOVAL OF S3 AND S4.

STRUT S1 AND WALES AT ELEVATION -4.0 MAY BE REMOVED AFTER BACKFILLING TO THIS LEVEL.

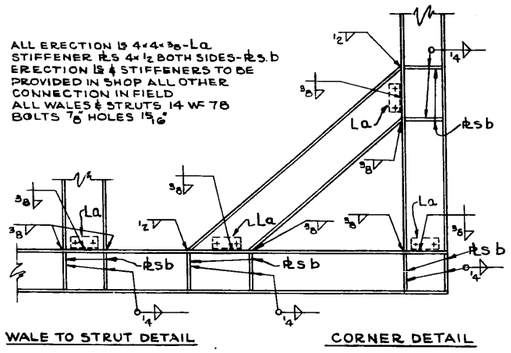
INSTALL UPPER SECTIONS OF PIPES, BUILD FORMS FOR UPPER PART OF CHAMBER AND POUR.

REMOVE SHORING AS BACKFILL PROCEEDS.

PULL PILING.

TEMPORARY SUPPORTS, AUXILIARY BRACING ETC. TO BE PROVIDED BY CONTRACTOR.

A STRUT LINE WILL BE REQUIRED AT ABOUT EL-10.0 BUT THIS WILL BE REMOVED AFTER POURING 6" AUXILIARY SLAB EXTENSION TO WALL.

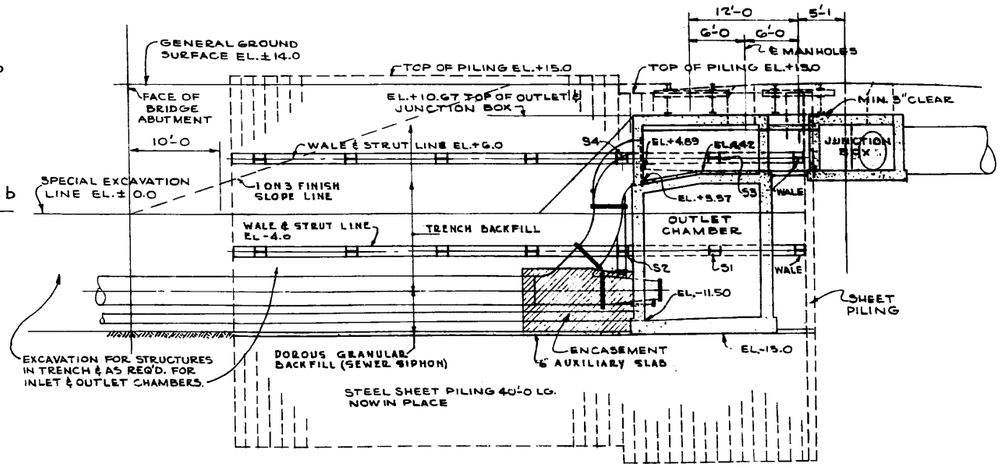


TYPICAL WALE & STRUT DETAILS

SCALE 1/2"=1'-0

PLAN COFFERDAM, OUTLET CHAMBER & JUNCTION BOXES

SCALE 1/8"=1'-0

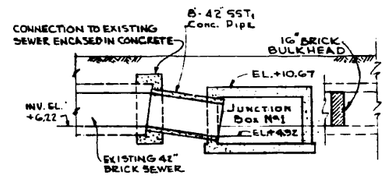


ELEVATION COFFERDAM

DETAILS OF COFFERDAM

SCALE 1/8"=1'-0

AS SHOWN FOR OUTLET CHAMBER.
DETAILS FOR INLET CHAMBER SIMILAR.



SECTION 1-1

SCALE 1/8"=1'-0

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY F. DUBSKY-LUKE
DRAWN BY G. UJIIYE
CHECKED L. H. LUKE
IN CHARGE L. H. Luke

CONGRESS STREET EXPRESSWAY
LEAVITT STREET SIPHON
SECTION 3-B-8 3-F-8

DETAILED LAYOUT N & S JUNCTION

SCALE: AS NOTED