FILE 40645

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 99	0405-1HB	COOK	26	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT U.I. 146 (27)		

INDEX OF SHEETS.

SHEET NO.

SUMMARY OF QUANTITIES.

SUMMARY OF QUANTITIES for SEC. 0405.1 HF

STRUCTUEAL STEEL	LBS.	431,500
METAL HANDRAIL	LIN. FT.	451

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

SCALES

PLAN	1 INCH	100 FT.
PROFILE. HOR.	1 INCH	100 FT.
PROFILE. VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

F.A. ROUTE 99 SEC. 0405.1 H.B.-H.F.-H
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY
PROJECT U.I 146 (27)

Section 0405.1-H: From a point approximately 3000 ft. East of the intersection of Oakton Street and Lehigh Avenue on Oakton Street in Morton Grove, easterly to a point near the intersection of Oakton Street, Gross Point Road and Central Ave. in Skokie.

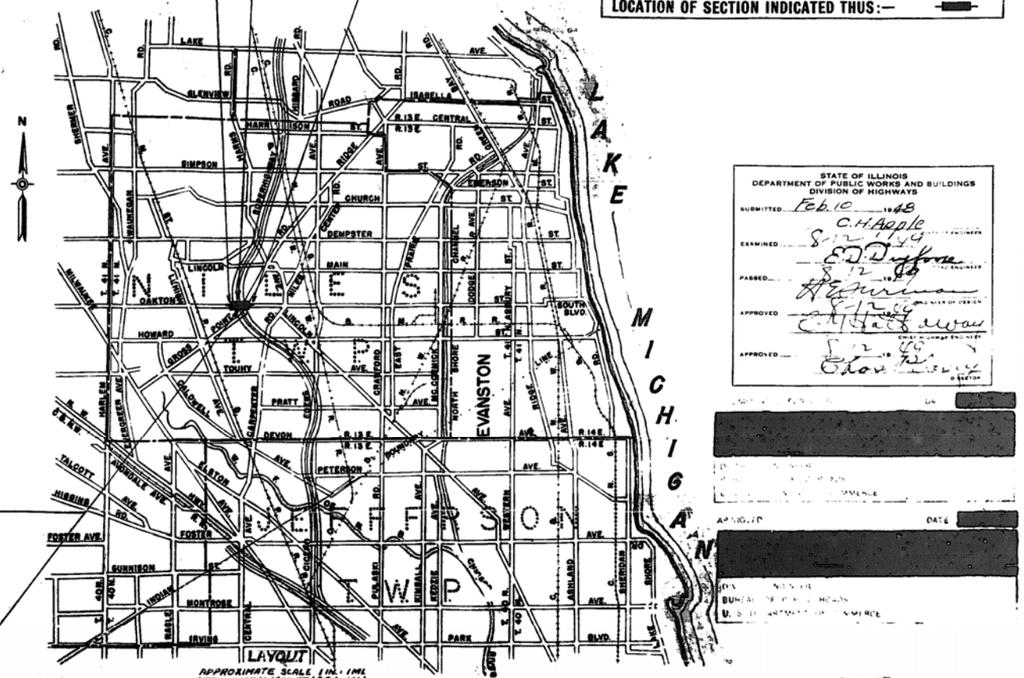
OMISSION from (SEC. 0405.1-H)
FROM STA. 9+28.24 TO STA. 11+53.80

SECTION 0405.1-HB	SECTION 0405.1-HF			SECTION 0405.1-H		
801.5		CU.YDS.	GLASS X CONCRETE	5501	SQ.YDS.	SODDING
142220		LBS.	REINFORCEMENT BARS			
431.500		LBS.	STRUCTURAL STEEL	172	LIN.FT.	STORM SEWER, TYPE 1 12"
5		EACH	TEST PILES	290	LIN.FT.	STORM SEWER, TYPE 2 12"
3797		LIN.FT.	FURNISHING PILES	135	LIN.FT.	STORM SEWER, TYPE 2 15"
672		LIN.FT.	DRIVING PILES 28'-0" LG.	152	LIN.FT.	STORM SEWER, TYPE 2 18"
451		LIN.FT.	METAL HANDRAIL	6	EACH	CATCH BASINS, TYPE A2, 6 DIA. WITH TYPE B GRATE
1470		LIN.FT.	DRIVING PILES 35'-0" LG.	4	EACH	OUTLETS, TYPE 2
1655		LIN.FT.	DRIVING PILES 38'-0" LG.			
				683	LIN.FT.	CAST IRON WATER MAIN (6")
				13	Each	FURNISHING & ERECTING P.C.W. MARKERS
				718	Sq. Yds.	SLOPE PAVEMENT
	6896	SQ.YDS.	PORTLAND CEMENT CONCRETE PAVEMENT - 10"			
	260	SQ.YDS.	PORTLAND CEMENT CONCRETE PAVEMENT - 16½" TO 10½" TO 16½"			
	6896	SQ.YDS.	PAVEMENT FABRIC			
	97	LIN.FT.	COMB. CONC. CURB AND GUTTER, TYPE B MODIFIED			
	1492	LIN.FT.	COMB. CONC. CURB AND GUTTER, TYPE B			
	322	LIN.FT.	COMB. CONC. CURB AND GUTTER, TYPE 3			
	19	SQ. FT.	LONGITUDINAL CURB EXPANSION JOINT			
	1667	SQ. YDS.	PAVEMENT REMOVAL			
	6448	SQ. FT.	SIDEWALK REMOVAL			
	25	IN. DIA.	TREE REMOVAL - INCH DIAMETER (6 @ 15" Diam.)			
	8059	SQ. FT.	P.C.C. SIDEWALK (5")			
	1636	TONS	CRUSHED STONE BASE COURSE			
	134	TONS	GRAVEL OR CRUSHED STONE SURFACE COURSE, TYPE A			
	1692	GALS.	BITUMINOUS MATERIAL APPLIED (PRIME COAT)			
	376	TONS	BITUMINOUS SURFACE, SUB CLASS B-3			
	18424	CU.YDS.	EARTH EXCAVATION			
	1900	CU.YDS.	COMPACTION BY WATER SOAKING			
	107	CU.YDS.	TRENCH BACKFILL			
	1417	CU.YDS.	GRANULAR BORROW			
	60	SQ.YDS.	BROKEN CONCRETE RIPRAP			
	3941	SQ.YDS.	EARTH SHOULDERS			

SECTION 0405.1-HF INCLUDES FURNISHING, FABRICATING, SHOP PAINTING & DELIVERY F.O.B. SKOKIE OF THE STRUCTURAL STEEL & METAL HANDRAIL FOR THE BRIDGE DESCRIBED BELOW.

SECTION 0405.1 HB INCLUDES-

THE CONSTRUCTION OF AN 1 SEAM BRIDGE ON OAKTON ST. OVER EDENS SUPERHIGHWAY IN THE VILLAGES OF SKOKIE AND MORTON GROVE, 2 SPANS @ 49'-6" AND 2 SPANS @ 62'-0", AT STATION 155+23.8, A POINT APPROXIMATELY 500 FT. WEST OF THE INTERSECTION OF GROSS POINT RD. AND OAKTON ST. WITH THE EXCEPTION OF FURNISHING, FABRICATING, SHOP PAINTING & DELIVERY F.O.B. SKOKIE OF THE STRUCTURAL STEEL & METAL HANDRAIL.



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

SUBMITTED Feb. 10 1948 C.H. Apple
EXAMINED 8-12-48 [illegible]
PASSED 8-12-48 E.D. Dufford
APPROVED 8-12-48 H. Emerson
APPROVED 8-12-48 [illegible]

[redacted]

APPROVED DATE

[redacted]

Rev. ECC 4-19-48
Rev. MW 5-4-49

EUGENE DIETZGEN CO

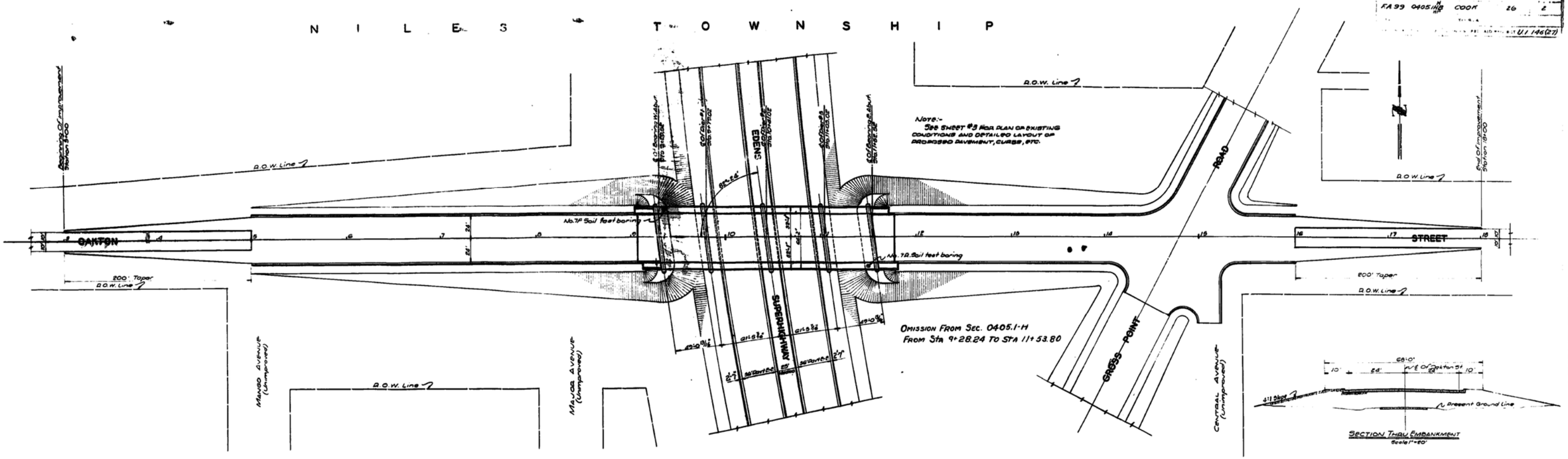
COUNTY COOK SECTION 0405.1 HB 0405.1 HF F.A. ROUTE 99

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	26	2

FA 99 0405.1H

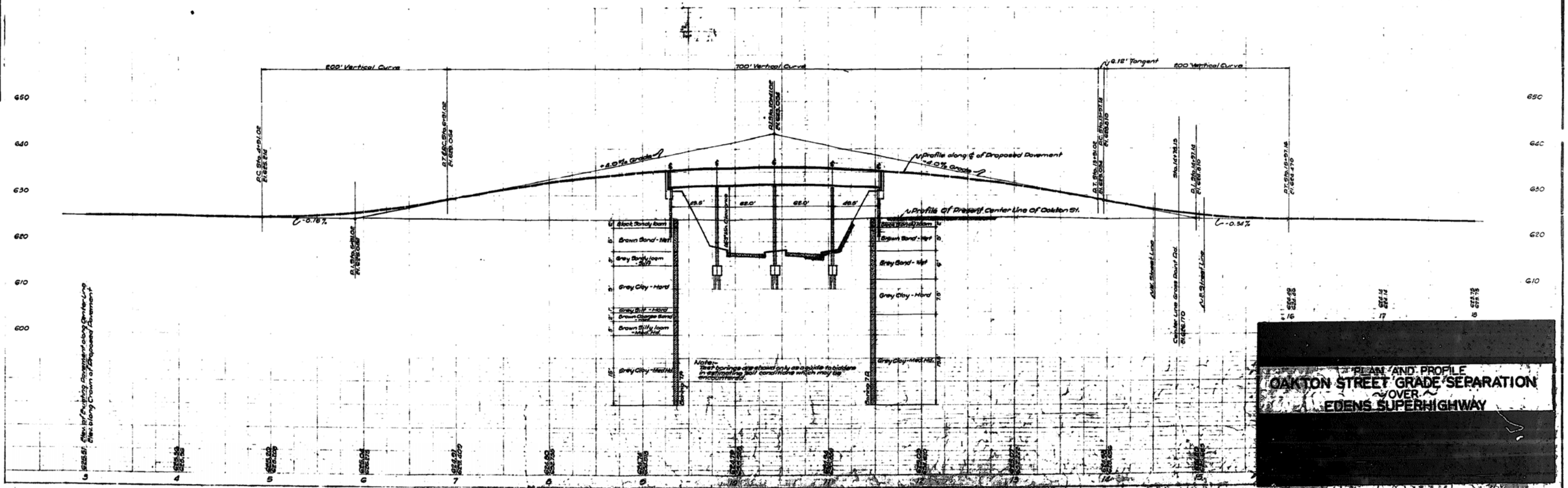
U.I. 146(27)

NILES TOWNSHIP



PROPOSED IMPROVEMENT

Design Speed 50 M.P.H.



PLAN AND PROFILE

OAKTON STREET GRADE SEPARATION

OVER

EDENS SUPERHIGHWAY

FA.99 0405(1)H COOK 26 3

U.146(27)

BM #5
A Cut on Center of East Headwall on South Side of Oakton St. 26.0' E. & 24.3' S of E'ly of N Major Ave. & Oakton St. Elevation = 625.733

VILLAGE OF MORTON GROVE
Population 2,010

R.13 E. T.41 N.

SEC. 20 | SEC. 21 | SEC. 29 | SEC. 28

VILLAGE OF SKOKIE
Population 7,172

OAKTON STREET

EXISTING R.C.C. PAVEMENT

PARK SIDE (Future) AVE.

MANGO AVE. (not improved)

MAJOR AVE. (not improved)

GROSS POINT ROAD

LUNA AVE.

GENERAL NOTES

134 Tons Gravel or Crushed Stone Surface Course Type A has been estimated to Provide for any Temporary Repair Work while Construction of Cross Rd. N of Oakton St. is in progress. No Bituminous Material Required.

Soil shall be placed on slopes, shoulders, and ditch between Sta 9+00 to Sta 9+28.20 and Sta 11+53.65 to Sta 13+00.

Granular Borrow shall conform to the special provisions and be placed under the Concrete Pavt as shown on Sheet # 18.

No additional Compensation Will be Allowed for widening of gutter flag.

EXISTING CONDITIONS

PROPOSED IMPROVEMENT

Temporary Rd. Sta 0+75 to Sta 3+33.69

R.O.W.

2½" Bit. Surface Subclass B-3 on 10" compacted Crushed Stone Base course

Broken Conc. Rip Rap 15 Sq. Yds Sta 3+84 to Sta 3+00

10' C. & G. Transition

Type "B" Curb & Gutter

Shoulder Line

Type 2 Outlet

10" P.C. Concrete Pavement

Broken Conc. Rip Rap 15 Sq. Yds Sta 6+30 to 7+06

Broken Conc. Rip Rap 15 Sq. Yds Sta 13+00 to Sta 13+76

Broken Conc. Rip Rap 15 Sq. Yds Sta 13+58 to Sta 13+70

Omission From Sec. 0405.1-H From Sta. 9+28.24 To Sta. 11+53.8

CONTRACT FOR Sec. 0405.1-H BEGINS AT STA. 3+00

CONTRACT FOR SEC. 0405.1-H ENDS AT STA. 18+00

FOR PROFILE OF LOCAL DR. & TEMPORARY RD SEE SHEET # 19

For Detail of Intersection See Sheet No. 21

PROFILE ALONG GROSS POINT ROAD

140' V.C.

C=426 Cu Yds F=7575 Cu Yds GRAN BORROW 706 Cu Yds

6984 Cu Yds to be Obtained between Sta 152+40 & Sta 155+00 on EDENS SUPERHIGHWAY

C=15,352 Cu Yds F=0

6984 Cu Yds to be Placed between Sta 9+00 & Sta 9+28.20 on OAKTON ST.

C=426 Cu Yds F=1575 Cu Yds GRAN BORROW 1161 Cu Yds

333 Cu Yds to be Placed between Sta 11+53.65 & Sta 18+00 on OAKTON ST.

C=629 Cu Yds F=7575 Cu Yds GRAN BORROW 705 Cu Yds

6368 Cu Yds to be obtained between Sta 152+40 & Sta 155+00 on Edens Super. 333 Cu Yds to be Obtained between Sta 21+91.12 & 24+30.79 on Gross Pt. Rd. 1528 Cu Yds to be obtained between Sta 14+00 & 20+00 on Local Drive & Temporary Rd.

700' V.C.

Profile Prop. Pavement Along ℄

Profile Present Pavement Along ℄

Bridge Approach Slab

200' V.C.

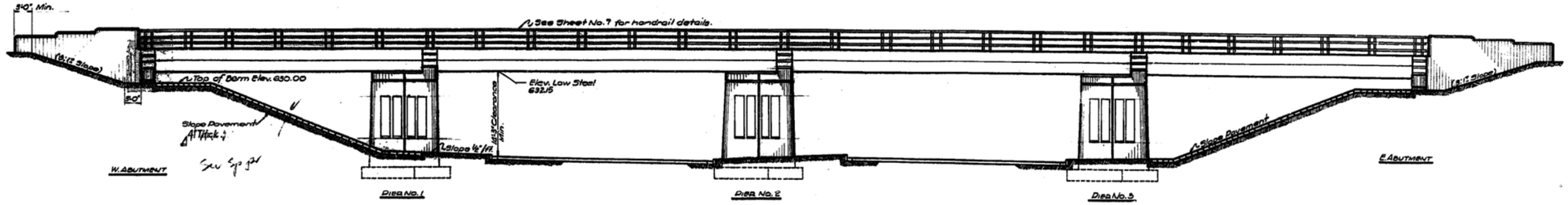
PLAN-PROFILE SHEET

E=158

F.A.99 0405.1H/B	COOK	26	4

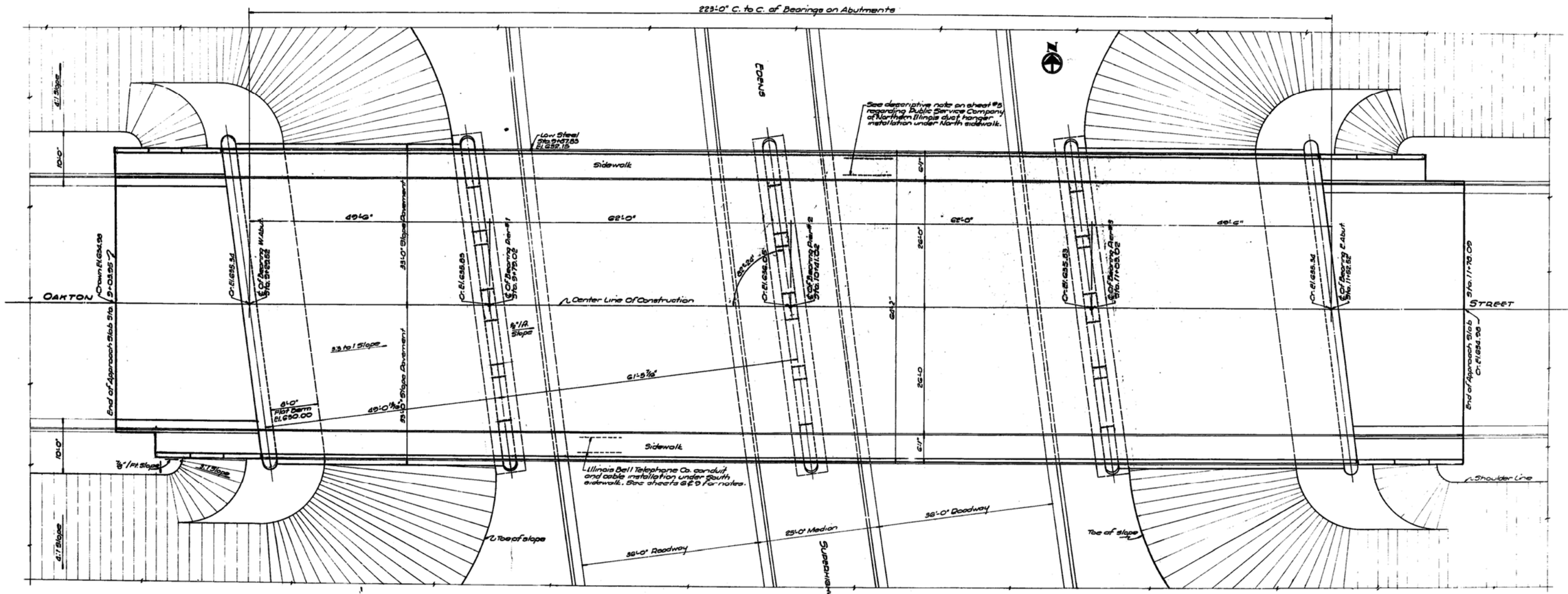
STA.

FED. ROAD PROJECT U.I. 146(27)



ELEVATION

Scale 1/16"=1'-0"



PLAN

General Notes

All piles shall be driven to obtain a minimum penetration of 10ft. into a stratum of acid material regardless of bearing capacity developed.

Class "A" Concrete shall be used throughout.

Each of the two sections of floor slab shall be poured in one continuous operation, from abutment to abutment. Finishing of the floor slab shall comply with article 601.06 of the standard specifications.

The best of construction practice shall be followed and premolded joint filler shall be included in the slab where shown. Class "A" Concrete.

Structural steel shall be inspected by the Illinois Division of Highways before painting.

Welding shall conform to the specifications of the American Welding Society for Arc Welding of Highway and Railway Bridges for 1946.

All bridge seats shall be constructed level and to the exact elevations shown. Adjustments in elevation by shimming or increasing thickness of seat shall be done at no additional cost.

All bar bending detail dimensions are out to out of bars unless otherwise noted.

See special provisions for slope pavement specifications.

Design Data

Loading	H20-S16-44
Earth pressure	30 Lbs. Fluid
Structural Steel	18,000 Lbs. Sq. in.
Reinforcing Steel	20,000 Lbs. Sq. in.
Concrete (without Earth Pressure)	1,200 Lbs. Sq. in.
Concrete (with Earth Pressure)	800 Lbs. Sq. in.

GENERAL PLAN
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

Rev. 12-2-47

℄ Bearing West Abutment

℄ Pier No.1

℄ Pier No.2

℄ Pier No.3

℄ Bearing East Abutment

For Pipe Sleeve Location for Handrail Posts See Sheet No.7

A

B

C

82°-06'

12'-0" Cur. Curve

12'-0" Straight Slope

℄ Fcing of Curb

7" Slab

Beam No.

1½" ϕ b-bars @ 12 ctrs. "Top" continuous full width of roadway and sidewalks 89-lines, 7 lengths each, 476 Req'd.

½" ϕ b₁-bars "Bottom" continue full width of roadway and sidewalks. For spacing see Section A-A. 94-lines, 7-lengths each, 658 Req'd.

⅝" ϕ g-bars "Top" continue full width of roadway and sidewalks over Piers only, in alternate positions as shown. 128 lines over each pier. 384 Req'd.

12'-5" 7'-10" 1'-5" Lap

226 - ⅞" ϕ a-bars @ 12" ctrs. alt. with a_1 & a_2
226 - ⅞" ϕ a_1-bars "Top" between a-bars
225 - ⅞" ϕ a_2-bars "Bottom" betw. a-bars
} each side

57 - ½" ϕ a_3-bars @ 1'-0" ctrs. "Top" each side
451 - ½" ϕ a_4-bars @ 6" ctrs. "Bottom" each side

½" ϕ b-bars "bottom" sidewalk beam. For spacing see Section A-A. 2-lines, 7-lengths each, 14-Req'd each side

49'-6" 82'-0" 82'-0" 82'-0" 225'-4⅞"

1½" ϕ

PLAN
Scale: 1/8"=1'-0"

Fillet height "f" equals the difference between the top side of top flange of beam and bott. of slab plus D.L. Deflection.

FILLET DETAIL

Corners to be edged

½" Premoulded Jt. Filler

16 oz. Cold Rolled Copper Seal

LONGITUDINAL CENTERLINE JOINT

Public Service Co. of Northern Illinois shall furnish materials for this installation. They shall either install the same with their own forces or make arrangements with the Contractor to make the installation for them. The entire cost of labor and materials shall be borne by the Public Service Co.

8'-0" Slope

8" Parapet

9" Slab

Overlay

7" Slab

"a_3"

"a_4"

226-bars - ½" ϕ - d - @ 12" ctrs.

1½" ϕ "b" bars @ 12" ctrs

⅝" ϕ "x" bars 6 ctrs. over each abutment in Roadway & Sidewalk

⅝" ϕ "g" bars 2 in each space betw. "b" bars over each pier.

5" Crown @ Curb

1½" Clear

"d" & "d_1" alt.

½" Joint Filler

Copper Seal

1" Clear

"d" & "d_2" alt.

For Fillet - See detail For Fillet heights See Sheet No.6

For Structural Steel Details see Sheet No.6

Symmetrical about ℄

8 Spaces @ 7'-4'-8" ½" ϕ b_1 bars

Constr. Jt.

Typical Panel Spacing for b_1 bars

2 Spaces @ 6'-0" = 12'-0"

6'-0" 6'-0" 6'-0" 6'-0" 1'-6 3/16"

38'-1"

SECTION A-A
Scale: ⅜"=1'-0"

DETAIL BAR-"a"
⅝" ϕ x 29'-6" lg. 452 Req'd

DETAIL BAR-"a_1"
⅝" ϕ x 28'-3" lg. 450 Req'd.

DETAIL BAR-"a_2"
½" ϕ x 9'-3" lg. 114 Req'd.

DETAIL BAR-"a_4"
⅝" ϕ x 7'-8" lg. 902 Req'd.

DETAIL BAR-"x"
⅝" ϕ x 5'-0" lg. 256 Req'd.

DETAIL BAR-"a_3"
½" ϕ x 21'-6" lg. 450 Req'd.

SECTION B-B
Scale: ½"=1'-0"

SECTION C-C
Scale: ½"=1'-0"

SPACING FOR "g" BARS

SPACING FOR "x" BARS

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.99	940S.118 HP	COOK	26	5
STA.		STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT U.I. 146 (27)		

BILL OF MATERIAL

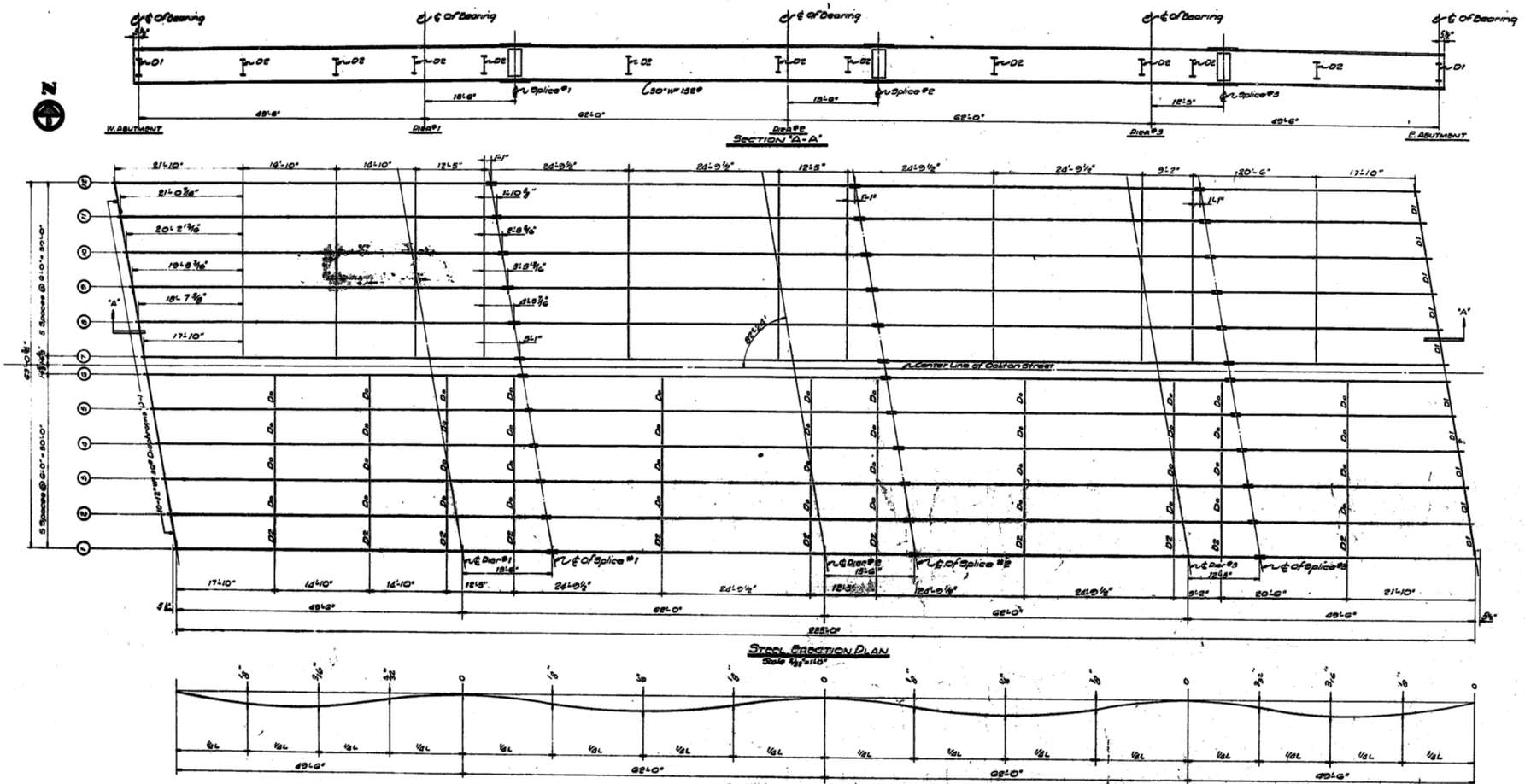
Bar	No	Size	Length	Type
a	452	⅝ ϕ	29'-6"	Bent
a_1	450	⅝ ϕ	28'-3"	"
a_2	450	⅝ ϕ	27'-6"	"
a_3	114	½ ϕ	7'-6"	Bent
a_4	902	⅝ ϕ	7'-3"	"
b	504	½ ϕ	33'-6"	Straight
b_1	658	½ ϕ	33'-6"	"
d	452	½" ϕ	1'-0"	"
g	384	¾ ϕ	20'-3"	Straight
X	256	⅝ ϕ	5'-0"	Bent
Class "X" Concrete Cu.Yds.			359.4	
Reinforcement Bars, Lbs.			86,790	

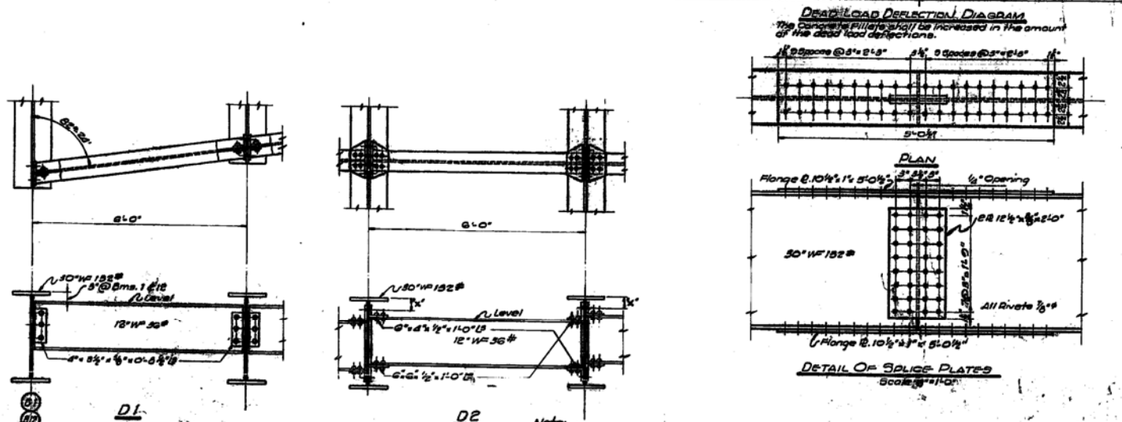
NOTE - When marking bars, in addition to "Bar Mark" add location designation such as "Super", "Pier 1 & 3", Pier 2", etc.

SUPERSTRUCTURE CONCRETE DETAILS
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

Ent. 12-4-47

BOND ISSUE ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
FA 99	9405 IN	COOK	2	6
STA.		TO STA.		
FED. ROAD DIST. No. 7	ILLINOIS	FED. A.I.C. PROJECT	U-146(07)	





DIAPHRAGM DETAILS
Scale 1/4"=1'-0"

Utilities Note:
The conduit which is to be suspended from diaphragms between bents 1 & 2 by the Illinois Bell Telephone Co. shall not hang lower than bottom of Ends 1 & 2.

DEAD LOAD DEFLECTION DIAGRAM
The concrete fillets shall be increased in the amount of the dead load deflections.

DETAIL OF SPLICE PLATES
Scale 3"=1'-0"

ELEVATION TOP C. BEAMS & DEPTH OR FILLET BETWEEN BOTTOM OF SLAB & TOP OF BEAMS

Beam No.	℄ Abutment ℄ Bearing	℄ Pier 1	℄ Splice 1	℄ Pier 2	℄ Splice 2	℄ Pier 3	℄ Splice 3	℄ Abutment ℄ Bearing
12	634.899 .000	634.627 .107	634.824 .055	634.918 .136	634.949 .098	634.688 .176	634.619 .195	634.289 .107
11	634.291 .009	634.058 .112	634.826 .060	634.919 .134	634.951 .096	634.690 .168	634.621 .171	634.291 .096
10	634.428 .015	634.855 .116	634.962 .069	635.066 .129	635.087 .095	634.826 .161	634.756 .138	634.428 .084
9	634.556 .029	634.982 .120	635.089 .092	635.185 .132	635.216 .090	634.938 .156	634.884 .130	634.554 .072
8	634.684 .055	635.071 .128	635.198 .095	635.292 .130	635.328 .087	635.062 .147	634.993 .122	634.684 .061
7	634.712 .064	635.116 .129	635.247 .098	635.340 .129	635.372 .084	635.111 .140	635.042 .114	634.712 .059
6	634.712 .069	635.119 .132	635.247 .100	635.340 .129	635.372 .085	635.111 .137	635.042 .110	634.712 .064
5	634.684 .081	635.071 .139	635.198 .105	635.292 .130	635.328 .089	635.062 .135	634.993 .109	634.684 .056
4	634.556 .072	634.982 .148	635.089 .117	635.185 .132	635.216 .089	634.953 .129	634.884 .100	634.556 .026
3	634.428 .084	634.855 .158	634.962 .133	635.066 .133	635.087 .093	634.826 .126	634.756 .098	634.428 .028
2	634.291 .096	634.058 .161	634.826 .132	634.919 .134	634.951 .095	634.690 .120	634.621 .095	634.291 .029
1	634.899 .107	634.627 .167	634.824 .120	634.918 .130	634.949 .096	634.688 .116	634.619 .089	634.289 .0

Note: Top of Fillet elevations shown in Steel Load Deflection Diagram are those in the Table to take care of Dead Load Deflection.

GENERAL NOTES

Structural steel shall be carbon steel and shall conform to A.S.T.M. A7 Specifications as amended to date except bonnet steel which shall be copper bearing steel containing 0.20% copper and also conforming to A.S.T.M. A7 Specifications, as amended to date.

Rivets shall be ⅞" ø. Holes for rivets shall be punched 1/16" and reamed to 15/16" ø. All field connections shall be riveted unless otherwise shown.

All spans shall be shop assembled to their proper alignment and the splices shall be subpunched, reamed and match marked. Assembled units shall be inspected by the Illinois Division of Highways before reaming. Shop assembly shall be with or without diaphragms.

Welding shall conform to the Specifications (E-10a) of the American Welding Society for Fusion Welding of Highway and Railway Bridges.

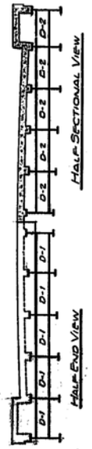
Contact surfaces of shop welded or shop riveted structural steel shall not be painted. See Specifications concerning inaccessible surfaces. Tops of beams that are to have concrete poured in contact with them shall not be painted, except that over abutments and piers, such surfaces shall be painted for a distance of 3 feet each way from the center line of bearing.

Structural steel shall be inspected by the Illinois Division of Highways before painting.

The structural steel shall be given one shop coat of red lead paint and two field coats of aluminum paint.

All paint shall be furnished by the contractor involved. See Special Provisions.

ESTIMATED WEIGHT OF STRUCTURAL STEEL SHOWN ON THIS SHEET 413,855.0 lbs.

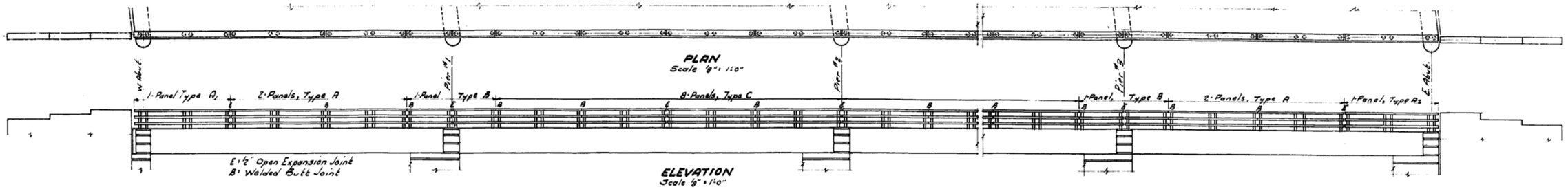


STRUCTURAL STEEL DETAILS
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

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

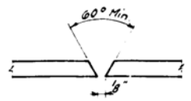
BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 99	060SHB HP	Cook	26	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
26 SHEETS



PLAN
Scale 1/8" = 1'-0"

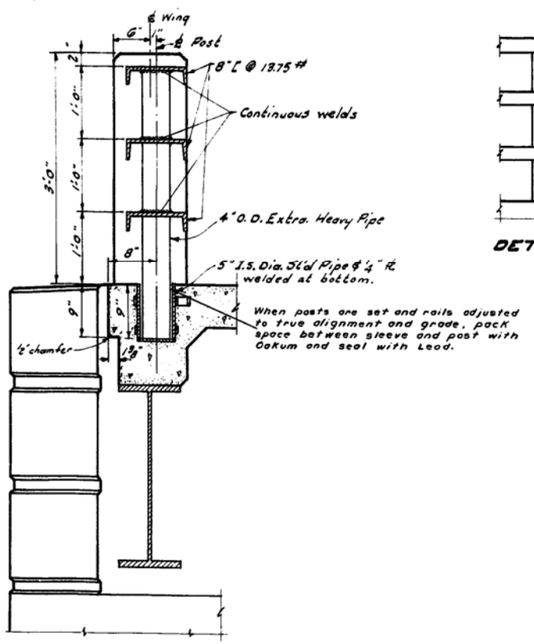
ELEVATION
Scale 1/8" = 1'-0"



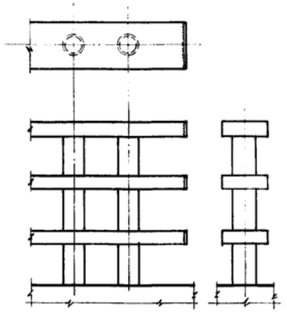
DETAIL OF BUTT JOINT FOR HANDRAIL

A1-No. Side Sta. 11+48.14
A2-No. Side Sta. 9+25.29
A1-So. Side Sta. 9+33.90
A2-So. Side Sta. 11+56.75

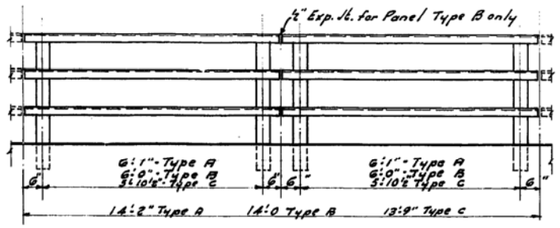
NOTE-
Expansion Joints in handrail shall be provided over piers at mid spans or as shown. Rail panels at points other than expansion shall be field welded and ground smooth.



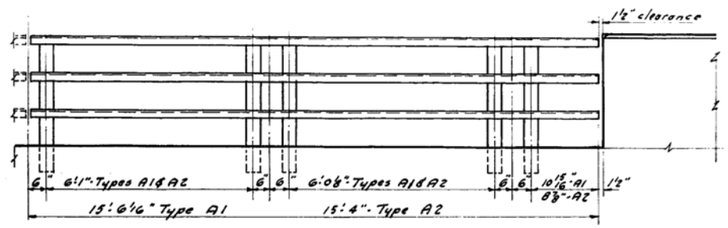
TYPICAL CROSS-SECTION



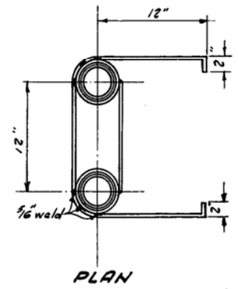
DETAIL OF END PANEL



INTERMEDIATE HANDRAIL PANELS-TYPES A-B&C



END HANDRAIL PANELS - TYPES A1 & A2



PLAN

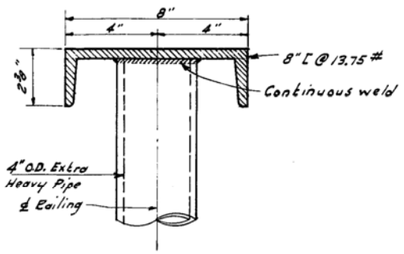
BILL OF MATERIALS

Metal Handrail - Total Length Req'd.	451.0'
Pipe Sleeve Anchors - Total Req'd.	66

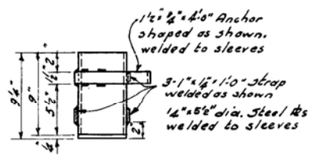
GENERAL NOTES

All Posts shall be vertical and all horizontal rail members shall follow the vertical curve of the grade line. The cost of setting Posts in Lead & Oakum, Pipe sleeves, Strap Anchors, and all fittings and material required shall be included in the Unit Price Bid for Lineal Foot of Metal Handrail.
Handrail shall be shop inspected before painting

The Handrail shall be given one shop coat of red lead paint and two field coats of aluminum paint.
Welding shall conform to the Std. Specs. of the American Welding Society for Fusion Welding of Highway & Railway Bridges.
Structural Steel for handrails shall conform to ASTM-A7 Specs.
Pipe Posts shall conform to Std. Specs. for Welded & Seamless Steel Pipe ASTM-A53.



DETAIL of HANDRAIL & POST



PIPE SLEEVE ANCHOR DETAIL

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

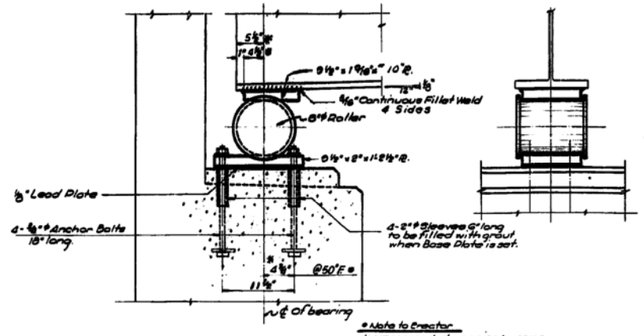
19
EXAMINED
BRIDGE ENGINEER
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

HANDRAIL DETAILS
OAKTON STREET GRADE SEPARATION
over
EDENS SUPERHIGHWAY

ROUTE	SEC	COUNTY	SHEET No.
FA 99	9405-1Hg HF	COOK	26

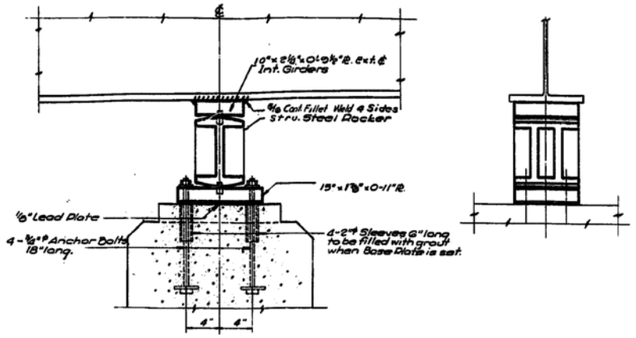
STA. — to STA.

FED. ROAD DIST. No. 7 — ILL. FED. AID PROJECT U 146(27)

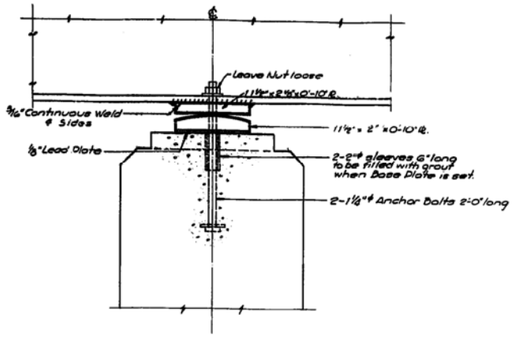


SECTION THRU ABUTMENT

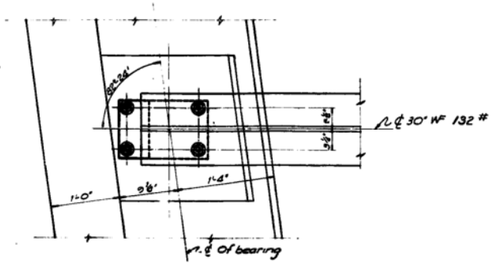
* Note to Erector.
Increase each dimension by same amount if abutment has moved or if temperature is over 50°F.
Decrease each by same amount if temperature is below 50°F.



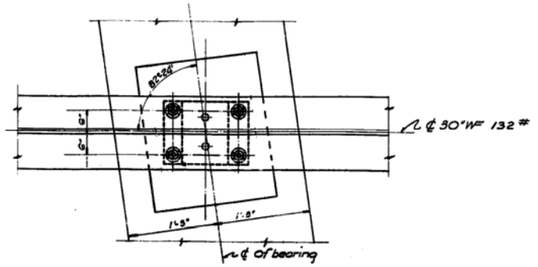
SECTION THRU DIERS 1 & 3



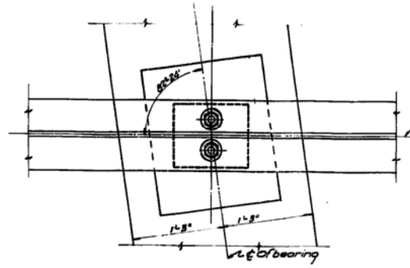
SECTION THRU DIER No. 2



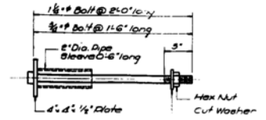
PLAN



PLAN

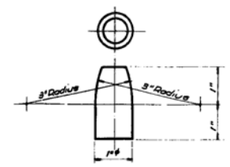


PLAN



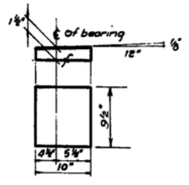
DETAIL OF ANCHOR BOLTS

1⅛"ø Bolts - 24 Req'd.	Wt.	226#
⅞"ø Bolts - 192 Req'd.	Wt.	470#
½" Plates - 216 Req'd.	Wt.	490#
Cut Washers - 216 Req'd.	Wt.	28#
2"ø Pipe Sleeves - 216 Req'd.	Wt.	350#



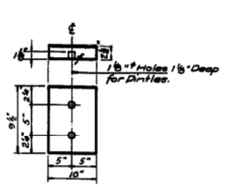
DETAIL OF PINTLE

(96 Req. Wt. 43 Lbs.)



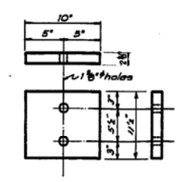
DETAIL OF TOP PLATE

(24 Req'd. Wt. 1009 Lbs.)



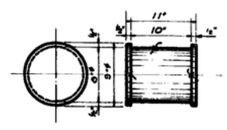
DETAIL OF TOP PLATE DIERS No. 1 & 3

(24 Req'd. Wt. 1481 Lbs.)



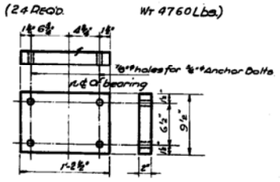
DETAIL OF TOP PLATE DIER No. 2

(12 Req'd. Wt. 838 Lbs.)



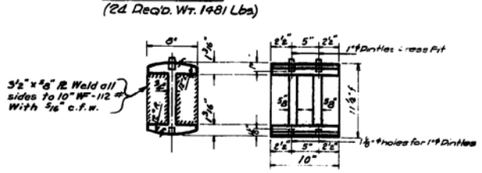
DETAIL OF ROLLERS

(24 Req'd. Wt. 4760 Lbs.)



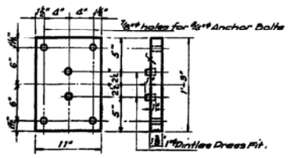
DETAIL OF BOTTOM PLATE

(24 Req'd. Includes Lead Rs. Wt. 1873 Lbs.)



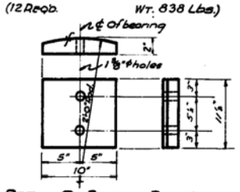
DETAIL OF STR. STEEL ROCKERS DIERS No. 1 & 3

(24 Req'd. Wt. 2859 Lbs.)



DETAIL OF BOTTOM PLATE

(24 Req'd. Wt. 2310 Lbs.) Includes Lead Rs.



DETAIL OF BOTTOM PLATE DIER No. 2

(12 Req'd. Wt. 855 Lbs.) Includes Lead Rs.

GENERAL NOTES

Rollers shall be turned down from a solid bar. For all plates in contact with the rollers, the edges adjacent to the collars shall be rolled or finished.

Estimated weights of rollers, rockers, steel plates, lead plates, welds and anchor bolts are included in weight of Structural Steel.

All rollers, rockers, bearing Rs., Lead Rs. and anchor bolts shall be furnished, painted, & set in accordance with Art. 543 (d) of the St. Spec.

All material except anchor bolts and lead plates shall be given one coat of red lead paint and two field coats of white lead paint.

TOTAL WEIGHT OF STRUCTURAL STEEL ON THIS SHEET = 17,642 #

ROCKERS ROLLERS AND BEARING PLATES
OAKTON STREET GRADE SEPARATION OVER EDENS SUPERHIGHWAY

DETAIL OF COPPER SEAL

Note: Copper Seal shall be 16oz. cold rolled annealed copper with outside legs perforated.

DETAIL OF ORNAMENTAL GROOVE

"S"-WING WALL

"N"-WING WALL

PLAN-SIDEWALK SLAB "S"-WINGWALL
Scale 1/4"=1'-0"

Note:- Provide beams and add ⅝"ϕ W₃ bars for this walk on ℄ Abutment only.

Sidewalks shall not be placed until backfilling is completed.

Symmetrical about ℄ Abutment except as shown or noted.

Utilities. The Public Utilities shall furnish all materials and shall either do the work themselves or make arrangements for the installations all without cost to the Department

℄ of 1'-0"x2'-4" Opening for Telephone Co. under South Sidewalk of both abutments.

℄ of 11½"x3'-4" Opening for Public Service Co. under North Sidewalk of both abutments.

℄ Bridge
℄ Roadway

℄ Bearing

Copper Seal

DETAIL-A DETAIL-B DETAIL-C

El. 630.794 El. 630.796 El. 630.933 El. 631.059 El. 631.169 El. 631.217

PLAN
WEST ABUTMENT
Scale 1/4"=1'-0"

Note:- East Abutment opposite hand except for Public Service and Telephone Company's openings thru counterforts & parapet walls.

Note: Section showing sidewalk beam over Public Service openings in counterforts.

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

PLAN-SIDEWALK SLAB "N"-WINGWALL
Scale 1/4"=1'-0"

Note:
"N" = North Wing Wall
"S" = South Wing Wall
T = Top
B = Bottom
F.F. = Far Face
N.F. = Near Face
E.F. = Each Face

El. 638.79 For "N"
El. 638.90 For "S"

El. 627.75

NOTE: When marking bars, in addition to "Bar Mark," add location designation such as "Super," "Pier 1 & 3," "Pier 2," etc.

ELEVATION
WINGWALL
Scale 1/4"=1'-0"

FA 99 040511B COOK 26 9

U.I. 146(27)

TYPICAL SECTION ABUTMENT
Scale 1/2"=1'-0"

El. 634.00
El. 635.73
El. 635.18
El. 633.54
El. 630.75
El. 627.75

ELEVATION
Scale 1/4"=1'-0"

Note: Estimated Length of Piles
Under Wing Walls:
Supporting, Lin.Ft. 20'-0"
Projecting, Lin.Ft. 6'-0"
Total Length = 28'-0"
Under Abutment:
Supporting, Lin.Ft. 32'-0"
Projecting, Lin.Ft. 6'-0"
Total Length = 38'-0"

Note: For 15" piles over 45'-0" lg. use #11 bars, 4 for the full length and 2 to the point of bend. For 16" piles under 45'-0" lg. use #10 bars the full length.

PRECAST CONCRETE PILE DETAIL
See Sheet 12 for Further Details

TYPICAL SECTION WINGWALL
Scale 1/4"=1'-0"

Note: Move or bend bars to suit at openings in Counter Forts.

BILL OF MATERIAL FOR 2-ABUTMENTS-

MARK	No.	SIZE	TYPE	LENGTH	LOCATION
d	80	½"ϕ	Bent	3'-9"	Wing Wall Ftg.
d_1	48	"	"	4'-6"	" " " Counter Forts
f	4	"	Str.	21'-6"	" " "
f_1	80	"	Bent	6'-6"	" " "
f_2	28	"	Str.	5'-6"	" " "
f_3	12	⅝"ϕ	"	21'-6"	" " "
f_4	12	"	"	20'-9"	" " "
h	8	½"ϕ	"	6'-6"	" " "
h_1	8	"	"	13'-0"	" " "
h_2	40	"	"	19'-6"	" " "
h_3	36	"	Bent	10'-9"	" " " Counter Forts
h_4	24	⅝"ϕ	Str.	32'-6	Abutment Ftg.
h_5	12	½"ϕ	"	32'-0"	" Wall
h_6	4	"	"	31'-0"	" "
h_7	2	"	"	3'-9"	" "
h_8	12	"	Bent	6'-9"	" Ftg. "Post"
s	84	"	"	11'-6"	" "
t	20	"	"	6'-9"	" Post
V	36	"	Str.	8'-6"	Wing Walls
V_1	32	"	"	7'-9"	" "
V_2	36	"	"	7'-0"	" "
V_3	48	"	"	3'-6"	" " Counter Ft.
V_4	296	"	"	5'-6"	Abutment Wall
V_5	12	"	"	7'-6"	" " Post
W	240	"	"	4'-0"	Sidewalk Slab
W_1	44	⅝"ϕ	Bent	20'-6"	" "
W_2	44	"	"	21'-6"	" "
W_3	24	"	"	5'-9"	" "

Class "A" Concrete	Cu.Yds. 142.2
Reinforcing Bars	Lbs. 9340
Test Piles	Each 2
Abut. Piles (Est. Lgth. 38'-0")	Lin.Ft. 836
Wing Wall Piles (Est. Lgth. 28'-0")	Lin.Ft. 672

DETAIL-BAR "t"
½"ϕ x 6'-9" lg. 20 Req'd.

DETAIL-BAR "s"
½"ϕ x 11'-6" lg. 84 Req'd.

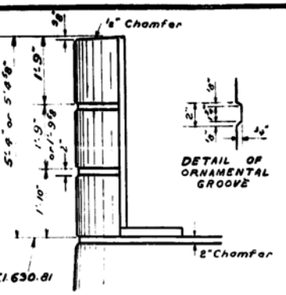
DETAIL-BAR "h_2"
½"ϕ x 10'-9" lg. 36 Req'd.

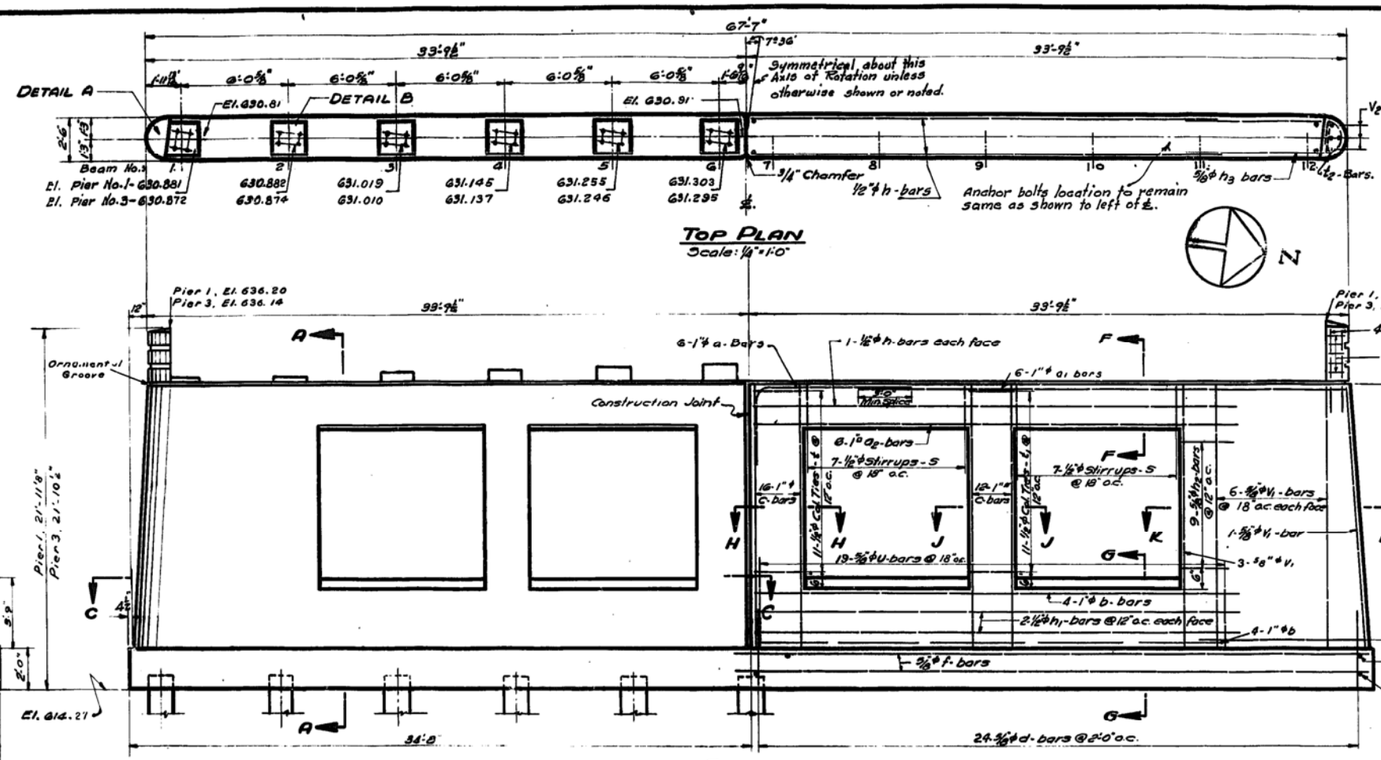
DETAIL-BARS d, d_1, f_1
d: ½"ϕ x 3'-9" lg. 80 Req'd.
d_1: ½"ϕ x 4'-6" lg. 48 Req'd.
f_1: ½"ϕ x 6'-6" lg. 80 Req'd.

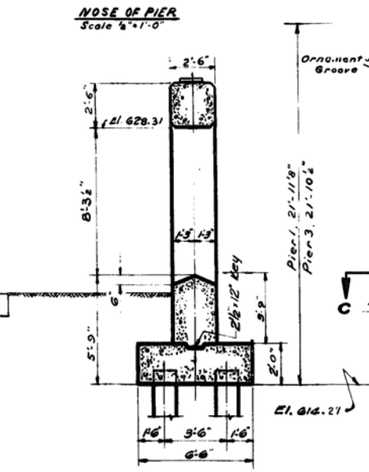
DETAIL-BAR "f_2"
½"ϕ x 5'-6" lg. 28 Req'd.

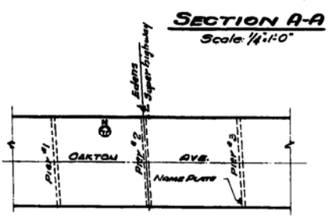
DETAIL-BARS W, W_1, W_2, W_3
W: ½"ϕ x 20'-6" lg. 44 Req'd.
W_1: ½"ϕ x 21'-6" lg. 44 Req'd.
W_2: ½"ϕ x 5'-9" lg. 24 Req'd.

ABUTMENT DETAILS
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY



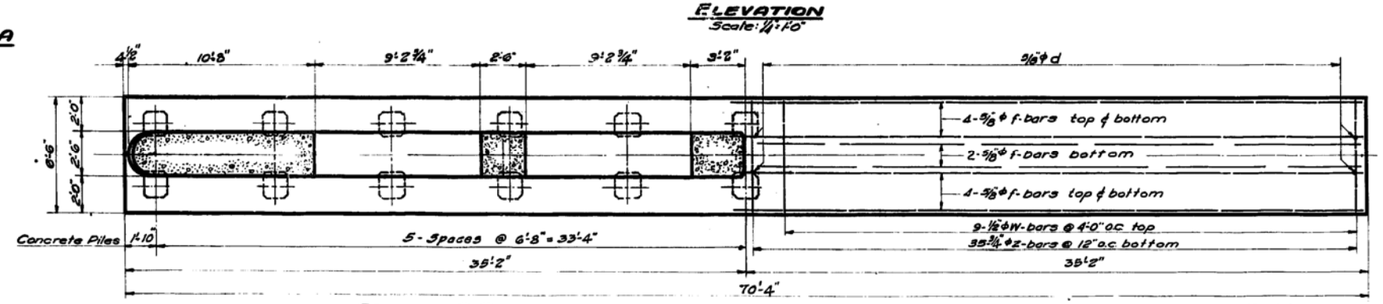


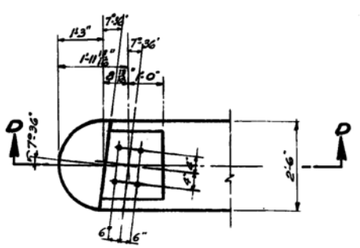




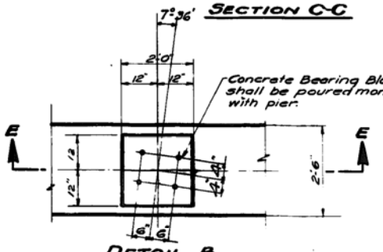
PLAN FOR LOCATION OF NAME PLATE

One Name Plate on one end only of Pier 3. Plate to be set on face of Pier.

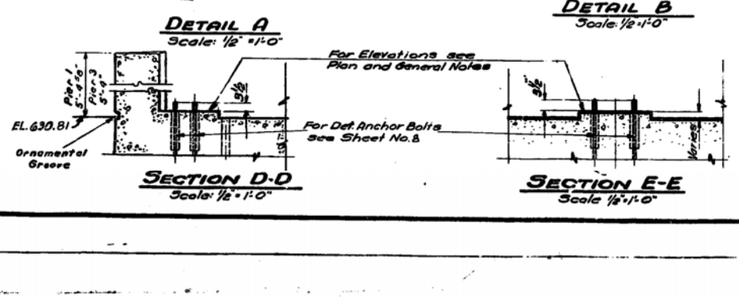




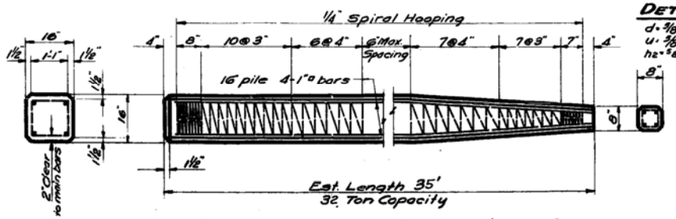
DETAIL A
Scale: ½"=1'-0"



DETAIL B
Scale: ½"=1'-0"



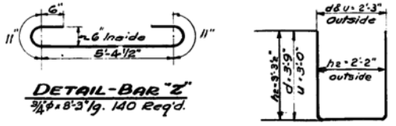
PLAN OF FOOTING
Scale: ¼"=1'-0"



Note: For 16" piles over 45'-0" lg. use 8-1"ϕ bars, 4 for the full length and 4 to the point of bevel. For 16" piles under 45'-0" lg. use 4-1"ϕ bars the full length.

PRECAST CONCRETE PILE DETAIL

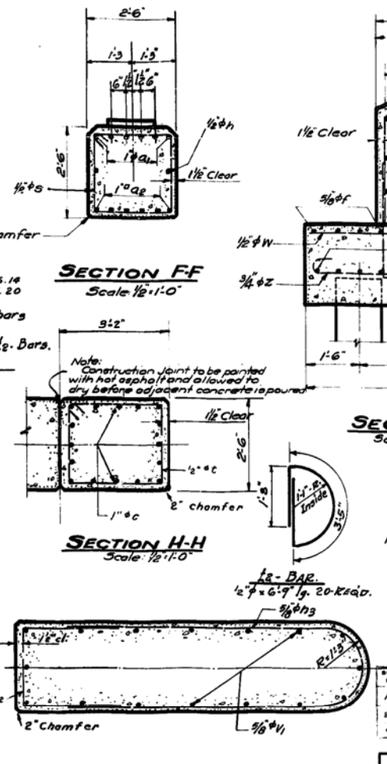
SEE SHEET 12 FOR FURTHER DETAILS

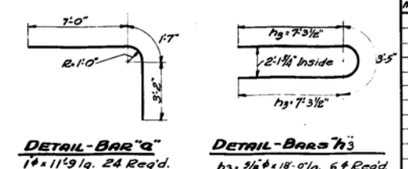


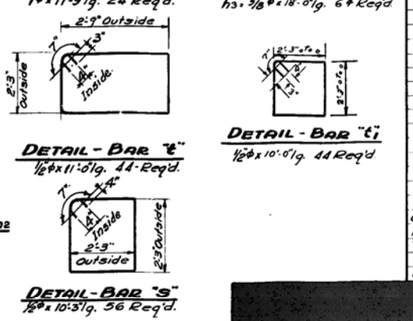
-Note-

All bridge seats shall be constructed to the exact elevations shown. If bush hammering or grinding is necessary it shall be done at no additional cost.

Note: When marking bars, in addition to "Bar Mark" add location designation such as "Super," "Pier 1 & 3," Pier 2," etc.







BOND ISSUE PROJECT					
FA 99	0405 118	COOK	24	10	
STA					
					U.I. 146 (27)

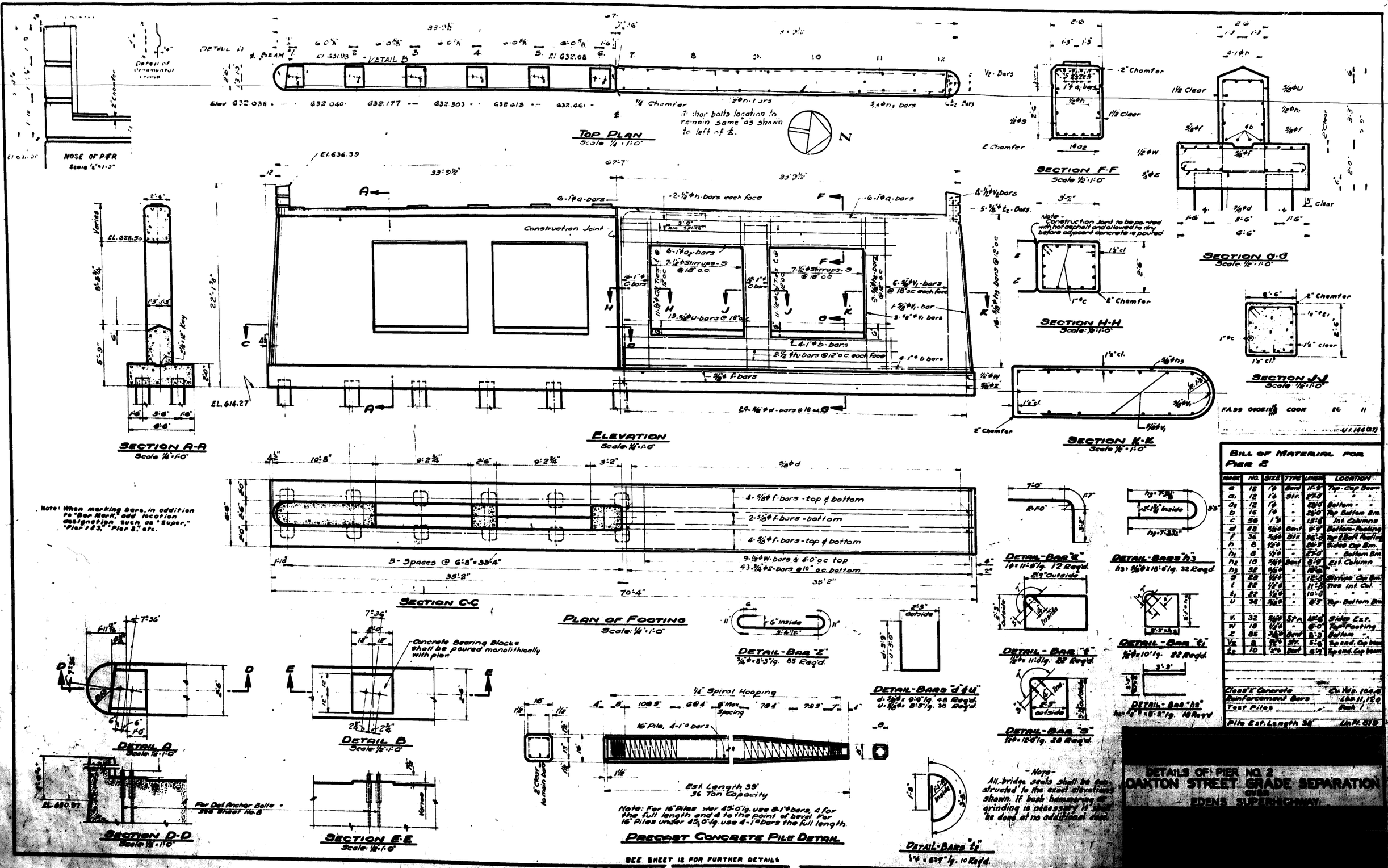
BILL OF MATERIAL FOR PIERS 1 & 3

MARK	NO	SIZE	TYPE	LENGTH	LOCATION
a	24	1#	Bent	11'-9"	Top-Cap Beam
a1	24	1#	Str.	27'-0	Top-Cap Beam
a2	24	1"	"	28'-0	Bottom Cap Bm.
b	32	1#	"	28'-0	Top-Bottom Bm
c	112	1"	"	14'-3"	Int. Columns
d	96	⅝"	Bent	3'-9"	Bottom-Footing
f	72	⅝"	Str.	36'-0	Top & Bot. Footing
h	8	½"	"	26'-3"	Sides-Cap Beam
h1	16	½"	"	27'-0"	Sides-Bottom Am.
h2	96	⅝"	Bent	8'-9"	Ext. Column
h3	64	⅝"	"	18'-0	" "
s	58	½"	"	10'-3	Stirrups Cap Bm.
t	44	½"	"	11'-0"	Ties Int. Col
t1	44	½"	"	10'-0	" " "
U	76	⅝"	"	8'-3"	Top-Bottom Bm
V1	64	⅝"	Str.	14'-3"	Sides Ext Col
W	36	½"	"	40'-0	Top-Footing
Z	140	¾"	Bent	8'-3"	Bottom- "
V2	16	½"	Str.	6'-9"	Top end. Cap beam
t2	20	1"	Bent	6'-9"	Top end. Cap beam

Class 'A' Concrete	Cu Yds	1955
Reinforcement Bars	Lbs.	21,700
Test Piles	Each	2
Piles Est. Lgth. 35'	Lin. Ft.	1470

DETAILS OF PIERS NO. 1 & 3
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

Rev. 12-8-47



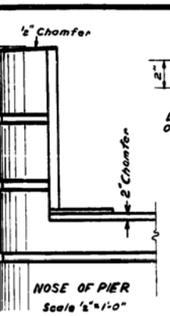
BILL OF MATERIAL FOR PIER 2

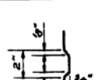
MARK	NO.	SIZE	TYPE	LENGTH	LOCATION
a	12	1"	Bent	11'-9	Top Cap Beam
a1	12	1"	Str.	27'-0	" " "
a2	12	1"	-	28'-0	Bottom " "
b	16	1"	-	28'-0	Top Bottom Bm.
c	56	1¾	-	15'-6	Int. Columns
d	48	⅝"ø	Bent	9'-9	Bottom Footing
f	36	⅝"ø	Str.	36'-0	Top & Bott. Footing
h	8	1½"	-	28'-0	Sides Cap Bm.
h1	6	1½"	-	29'-0	" Bottom Bm
hg	16	⅝"ø	Bent	8'-0	Ext. Columns
h3	32	⅝"ø	-	18'-6	" "
s	28	1"ø	-	12'-0	Wingtips Cap Bm.
t	22	1"ø	-	11'-0	Tees Int. Col.
t1	22	1"ø	-	10'-0	" "
u	38	⅝"ø	-	6'-9	Top-Bottom Bm.
v1	32	⅝"ø	Str.	10'-0	Sides Ext.
w	18	½"ø	-	6'-0	Top Footing
z	85	⅞"ø	Bent	8'-3	Bottom "
v2	8	½"ø	Str.	5'-6	Top end Cap Beam
L2	10	½"ø	Bent	6'-9	Top end Cap Beam

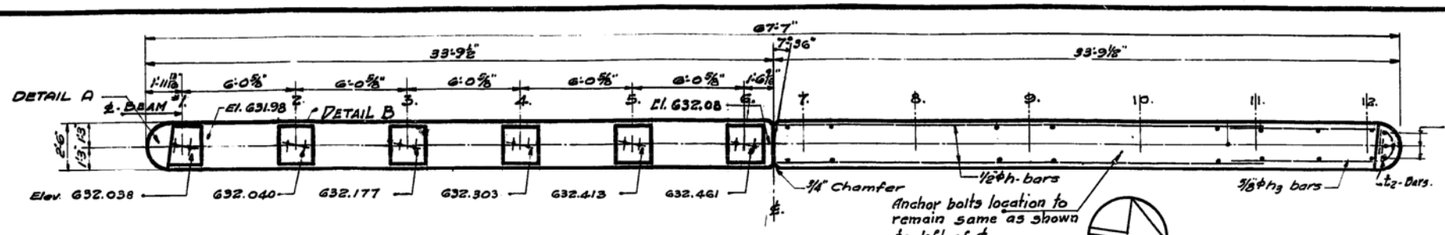
Class "A" Concrete	Cu. Yds. 106.0
Reinforcement Bars	Lbs. 11,180
Test Piles	Each 7
Pile Est. Length 39'	Lin. Ft. 819

DETAILS OF PIER NO. 2
OAKTON STREET GRADE SEPARATION
over
EDENS SUPERHIGHWAY

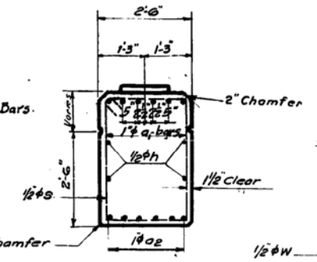
SEE SHEET 18 FOR FURTHER DETAILS



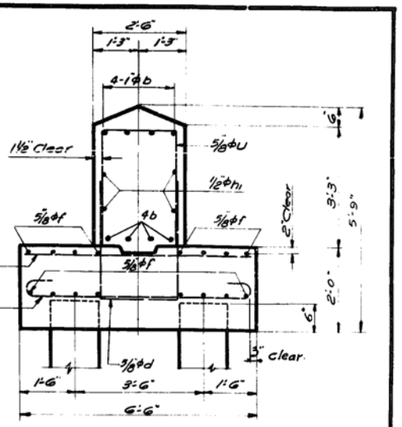




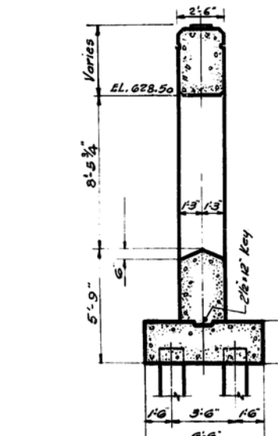
TOP PLAN
Scale: ⅛" = 1'-0"



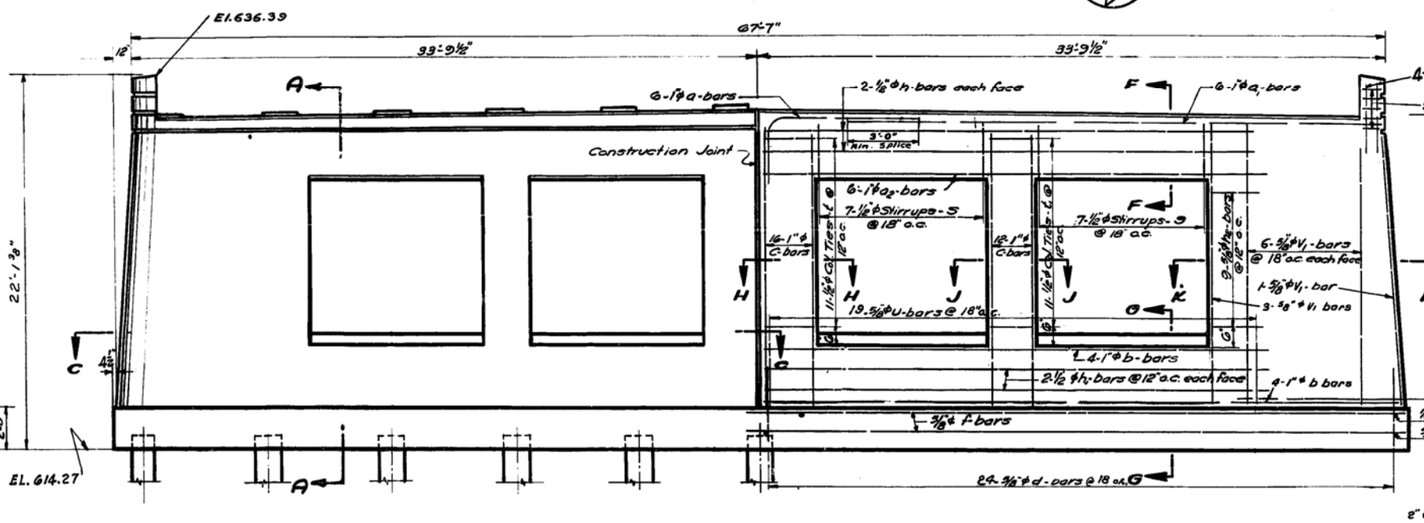
SECTION F-F
Scale: ½"=1'-0"



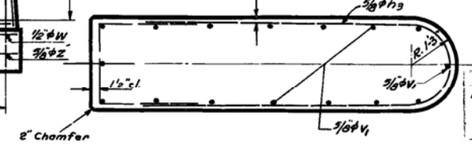
SECTION G-G
Scale: ½"=1'-0"



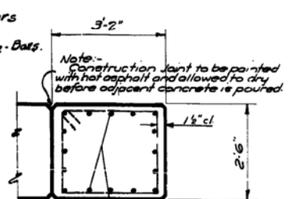
SECTION A-A
Scale: ¼"=1'-0"



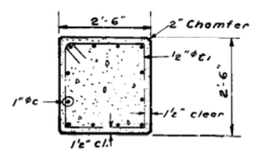
ELEVATION
Scale: ¼"=1'-0"



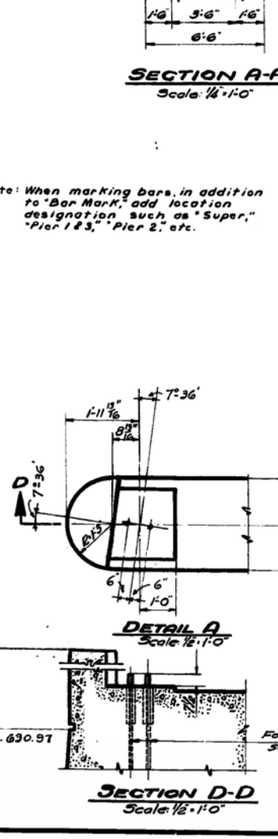
SECTION K-K
Scale ½"=1'-0"



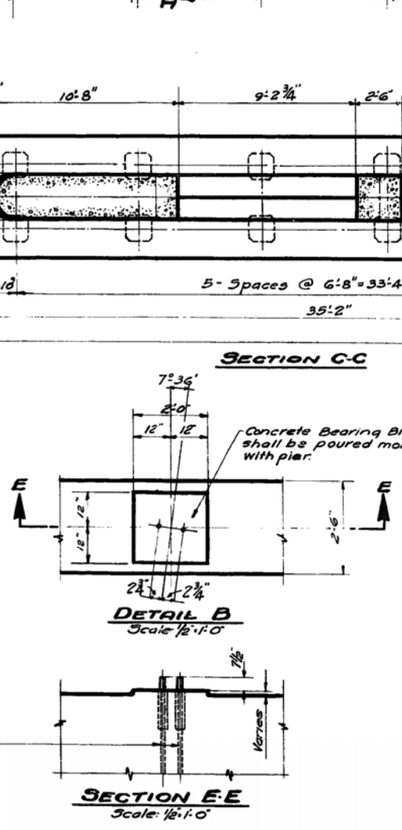
SECTION H-H
Scale: ½"=1'-0"



SECTION J-J
Scale: ½"=1'-0"

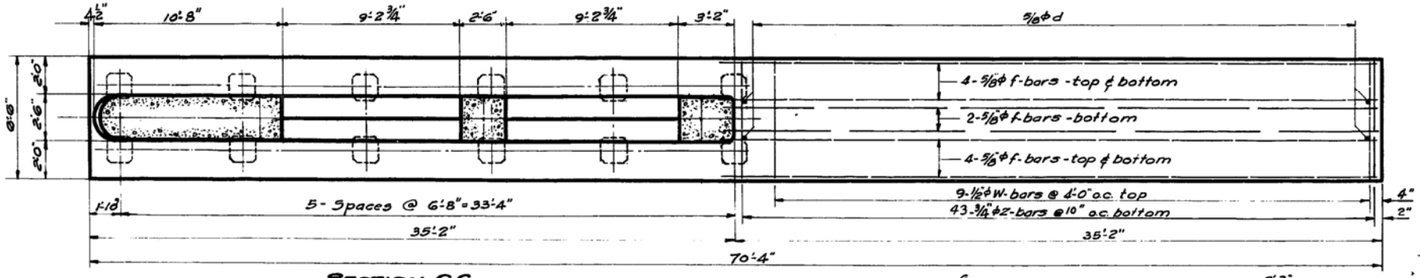


SECTION D-D
Scale: ½"=1'-0"



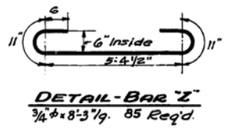
DETAIL B
Scale: ½"=1'-0"

SECTION E-E
Scale: ½"=1'-0"

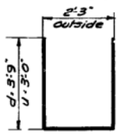


SECTION C-C

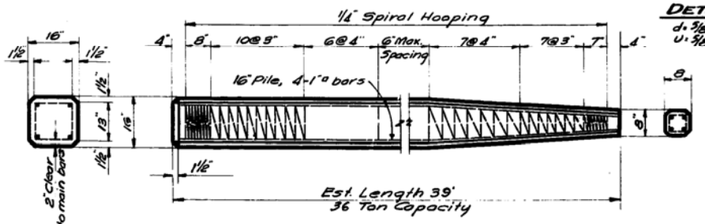
PLAN OF FOOTING
Scale: ¼"=1'-0"



DETAIL-BAR "Z"
¾ϕ x 8'-3"/g. 85 Req'd.

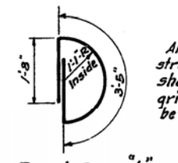


DETAIL-BARS "d & U"
d-⅝ϕ x 9'-9"/g. 48 Req'd.
U-⅝ϕ x 8'-3"/g. 38 Req'd.

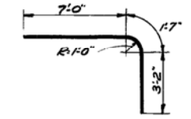


Note: For 16" Piles over 45'-0" lg. use 8-1" ϕ bars, 4 for the full length and 4 to the point of bevel. For 16" Piles under 45'-0" lg. use 4-1" ϕ bars the full length.

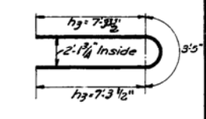
PRECAST CONCRETE PILE DETAIL



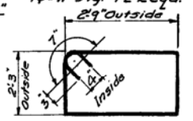
DETAIL-BARS "t2"
½"ϕ x 6'-9" lg. 10 Req'd.



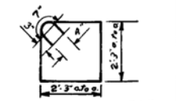
DETAIL-BAR "a"
1ϕ x 11'-9"/g. 12 Req'd.



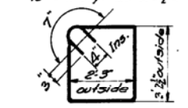
DETAIL-BARS "h3"
h3 - ⅝ϕ x 18'-0"/g. 32 Req'd



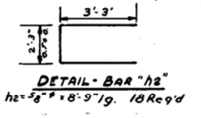
DETAIL-BAR "t"
½ϕ x 11'-6"/g. 22 Req'd.



DETAIL-BAR "t1"
½ϕ x 10'/g. 22 Req'd.



DETAIL-BAR "S"
½ϕ x 12'-0"/g. 28 Req'd.



DETAIL-BAR "h2"
h2 - ⅝ϕ x 8'-9"/g. 18 Req'd

- Note -
All bridge seats shall be constructed to the exact elevations shown. If bush hammering or grinding is necessary it shall be done at no additional cost.

BILL OF MATERIAL FOR PIER 2

MARK	NO.	SIZE	TYPE	LENGTH	LOCATION
a	12	1ϕ	Bent	11'-9	Top-Cap Beam
a1	12	1ϕ	Str.	27'-0	" " "
a2	12	1ϕ	-	28'-0	Bottom " "
b	16	1ϕ	-	28'-0	Top Bottom Bm.
c	56	1"ϕ	-	15'-6	Int. Columns
d	48	⅝ϕ	Bent	9'-9	Bottom-Footing
f	36	⅝ϕ	Str.	36'-0	Top & Bott. Footing
h	8	½ϕ	-	26'-3	Sides Cap Bm.
h1	8	½ϕ	-	27'-0	" Bottom Bm.
h2	18	⅝ϕ	Bent	8'-9	Ext. Column
h3	32	⅝ϕ	-	18'-0	" "
S	28	½ϕ	-	12'-0	Stirrups Cap Bm.
t	22	½ϕ	-	11'-3	Ties Int. Col.
t1	22	½ϕ	-	10'-6	" " "
U	38	⅝ϕ	-	8'-3	Top-Bottom Bm.
V1	32	⅝ϕ	Str.	15'-6	Sides Ext.
W	18	½ϕ	-	6'-0	Top-Footing
Z	85	¾ϕ	Bent	8'-3	Bottom "
V2	8	1¼ϕ	Str.	5'-6	Top end. Cap beam
t2	10	2"ϕ	Bent	6'-9	Top end. Cap beam

Class 'X' Concrete	Cu Yds. 104.4
Reinforcement Bars	Lbs. 11,120
Test Piles	Each 1
Pile Est. Length 38'	Lin Ft 819

F.A. 99	0405(11½	COOK	26	11
					(U.I. 146 (27)

DETAILS OF PIER NO. 2
OAKTON STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

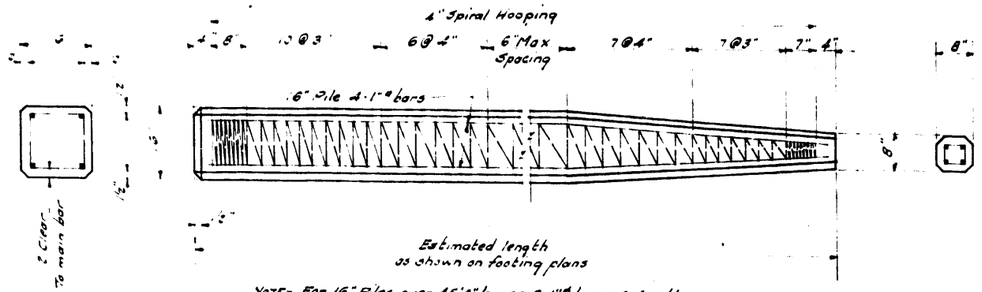
SEE SHEET 12 FOR FURTHER DETAILS

Rev. 12-8-47

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

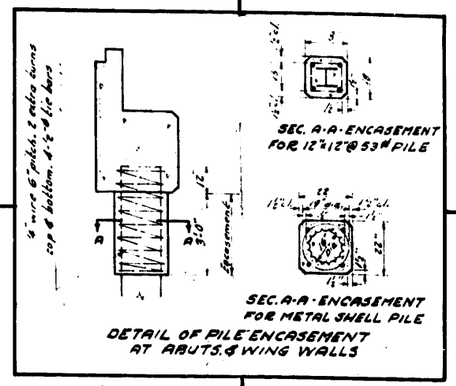
PILES

Note - Piling to be used shall be one of the various piles shown below.

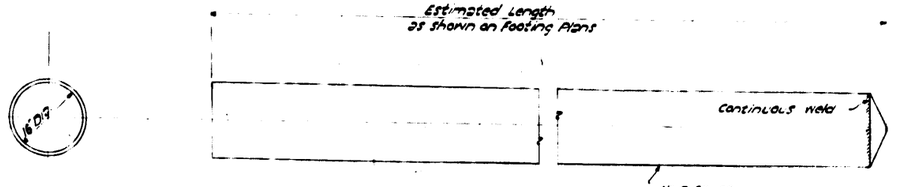


NOTE- For 16" Piles over 45'-0" lg. use 8-1" ø bars, 4 for the full length and 4 to the point of bevel. For 16" piles under 45'-0" lg. use 4-1" ø bars the full length.

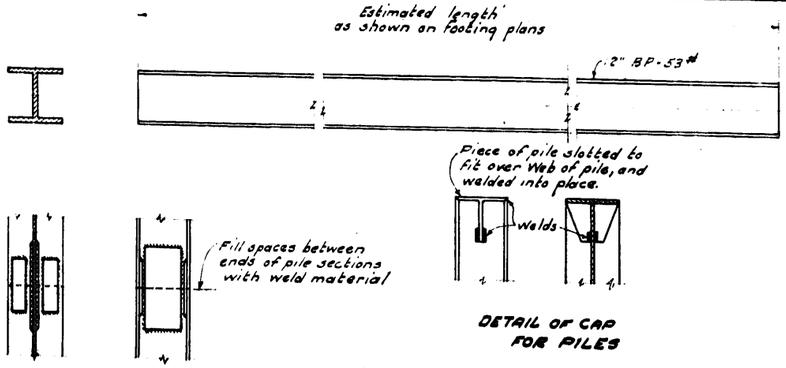
PRECAST CONCRETE PILE DETAIL
Scale 3/4" = 1'-0"



DETAIL OF PILE ENCASEMENT AT ABUTS. & WING WALLS



DETAIL OF SPIRALLY WELDED STEEL SHELL FOR CAST-IN-PLACE CONCRETE PILES
Scale 3/4" = 1'-0"

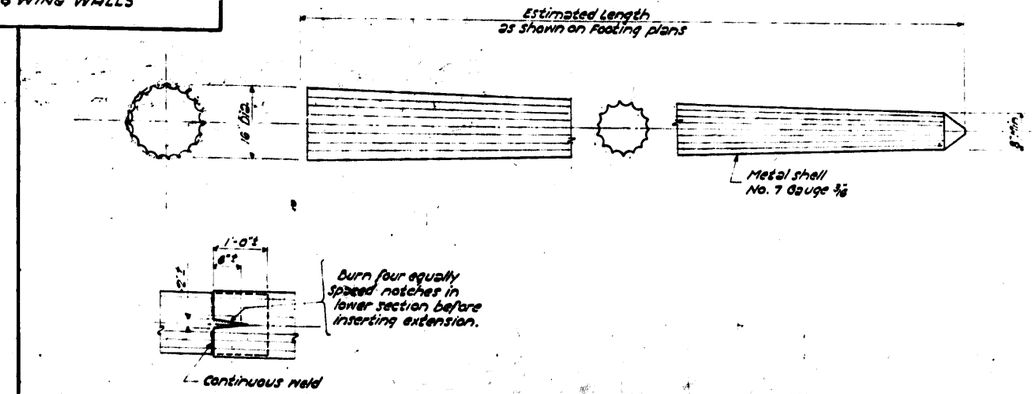


DETAIL OF CAP FOR PILES

SPLICE TO BE USED WHERE REQ'D.

DESIGNED	EXAMINED 19
CHECKED	PASSED — BRIDGE ENGINEER
DRAWN	APPROVED — ENGINEER OF DESIGN
CHECKED	CHIEF HIGHWAY ENGINEER

DETAIL OF 12"x12"@53# PILE
Scale 3/4" = 1'-0"



SPLICE TO BE USED WHERE REQUIRED

DETAIL OF METAL SHELL FOR CAST-IN-PLACE CONCRETE PILES
Scale 3/4" = 1'-0"

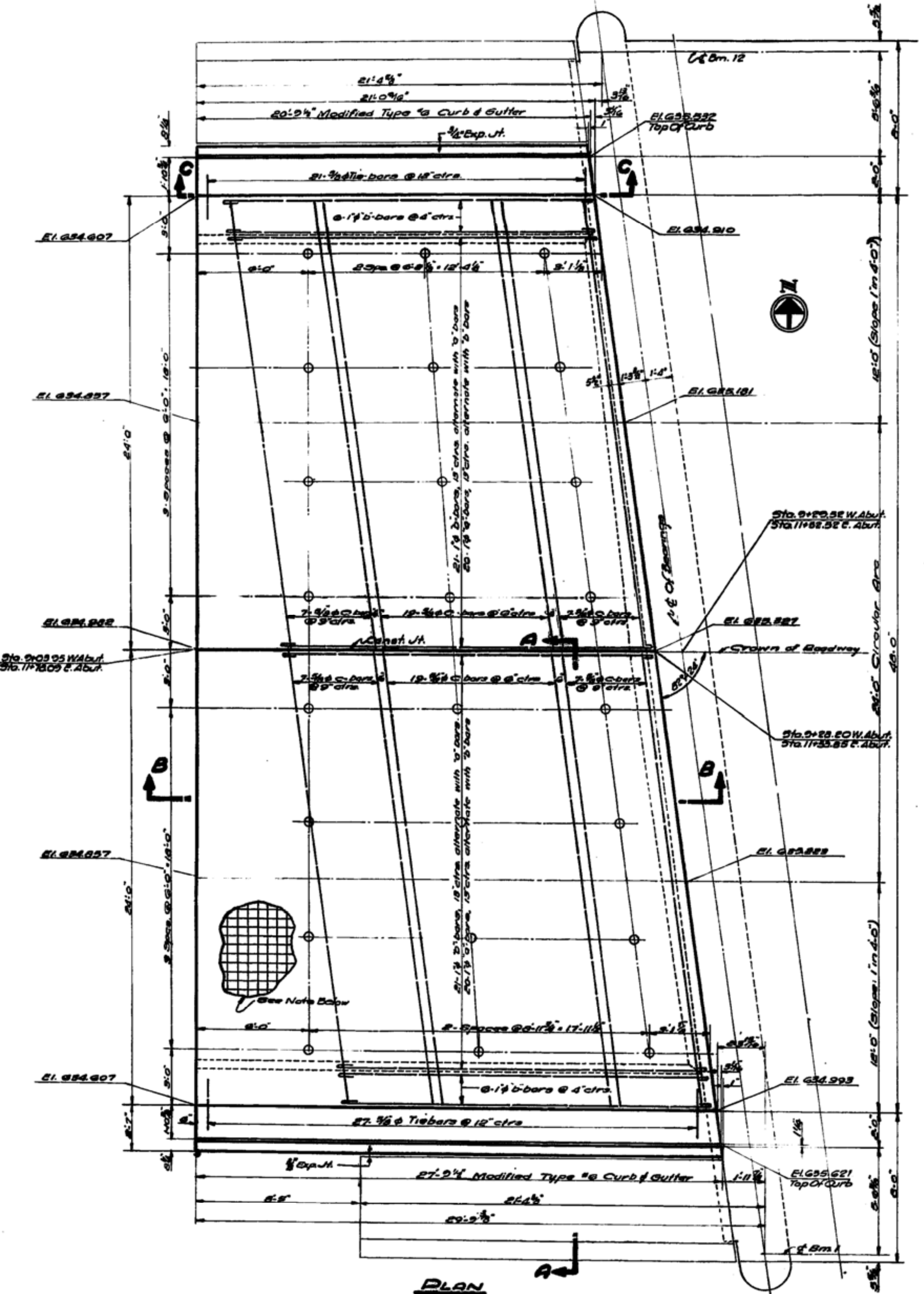
PILE DETAILS
STREET GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

BOND ISSUE ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
FA.99	0405.1HB HF	COOK	26	13
STA.		TO STA.		
FED. ROAD DIST. No. 7	ILLINOIS	FED. AID PROJECT U.I. 146(27)		

BILL OF MATERIAL FOR TWO APPROACH SLABS

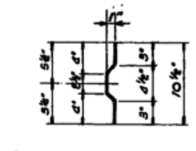
Bar	No.	Size	Length	Remarks
a	80	1"ϕ	22'-0"	Bent
b	108	1"ϕ	18'-0"	Bent
c	132	5/8"ϕ	24'-6"	Straight

Reinforcement Bars Lbs.	13,265.0
Modified Type G Curb & Gutter Lin. Ft.	97.0
P.C.C. Pavement 16½"-10½"-16½" Sq. Yds.	260.0

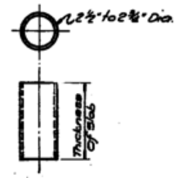


PLAN
WEST APPROACH
EAST APPROACH SIMILAR
Scale: ¼"=1'-0"

NOTE:-
In Triangular Area not covered by reinforcement bars, one of the following may be used; expanded metal weighing not less than 78 Lbs. per 100 Sq. Ft. or a welded bar mat weighing not less than 78 Lbs. per 100 Sq. Ft. having members of equal size in both directions and spaced not over 6" apart, may be used instead of the #2 welded wire fabric 6"×6", provided the expanded metal or bar material is furnished at no additional cost to the Department.

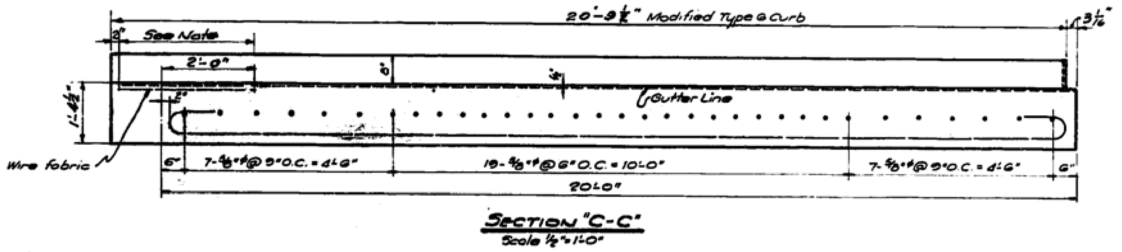


DETAIL OF KEY AT CONSTRUCTION JOINT

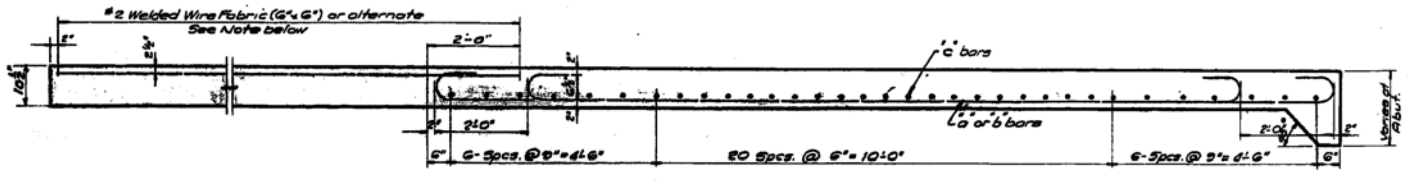


DETAIL OF CYLINDER

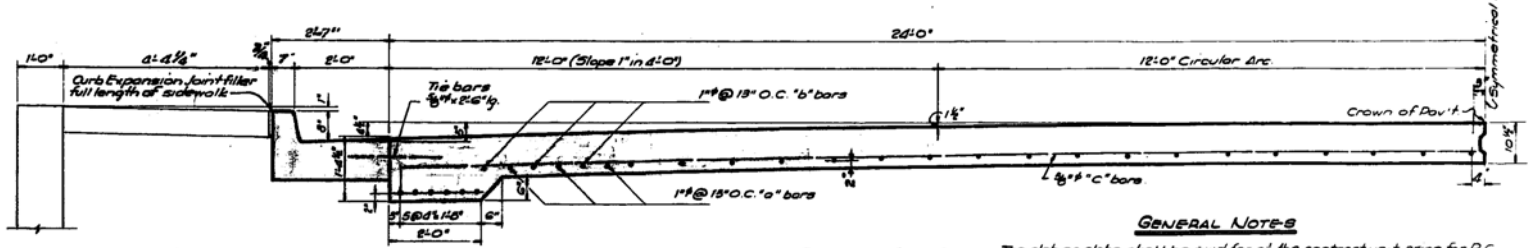
Cylinder shall be filled with clay and clay shall be tamped. Cylinders shall be Standard Weight black steel pipe.



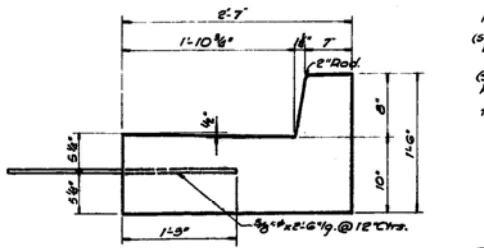
SECTION "C-C"
Scale ½"=1'-0"



SECTION "B-B"
Scale ½"=1'-0"



SECTION "A-A"
Scale ½"=1'-0"



MODIFIED TYPE "G" CURB & GUTTER
Scale 1"=1'-0"

Note: When marking bars, in addition to "Bar Mark" add location designation such as "Super," "Pier 1 & 3," "Pier 2," etc.

GENERAL NOTES

The slab or slabs shall be paid for at the contract unit price for P.C. Concrete Pavement (16½"-10½"-16½").

The Modified Type G Curb and Gutter (including the ⅝" tie bars) shall be paid for at the contract unit price for COMBINATION CONCRETE CURB AND GUTTER, MODIFIED TYPE G.

All reinforcement bars, except the curb and gutter tie bars, shall be paid for at the contract unit price for REINFORCEMENT BARS.

The Mud Jack Cylinders shall be furnished and installed by the Contractor (Sec. 0405.1 H) and included in the contract unit price for P.C. CONCRETE PAVEMENT (16½"-10½"-16½").

The welded wire fabric shall be furnished and installed by the Contractor (Sec. 0405.1 H) and included in the contract unit price for P.C.C. Concrete Pavement (16½"-10½"-16½").

The Longitudinal curb expansion joint filler shall be included in the contract unit price for P.C.C. Concrete Pavement (16½"-10½"-16½").

DETAIL OF APPROACH SLAB
OAKTON ST. GRADE SEPARATION
OVER
EDENS SUPERHIGHWAY

Rev. 12-3-47

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET
FA 99	9405 1/2 HP	COOK	26	14
STA.		TO STA		
FED. ROAD DIST. NO.		FED. AID PROJECT		

635.327
624.75
F=.702
C=.10
634.607
634.382
624.74
F=1.144
C=.10
G0=.23
632.735
632.360
624.60
F=.808
C=.10
G0=.20
629.400
624.91
F=.328
C=.12
G0=.23
626.235
625.04
F=.60
C=.14
G0=.28
623.208
625.20
F=0
C=.51
G0=.25
625.360
625.36
F=.14
C=.18
G0=.8
623.1
625.51
F=0
C=.4
G0=.2
624.5
623.9
622.8
623.0
622.6
622.8
623.0
623.2
Existing
Existing
ML
ML
ML
ML
ML
ML
ROW
ROW
ROW
10'
5'
Water Line
Water Line
Water Line
9+82.30
9+00.35
8+00
7+00
6+00
5+00
4+00
3+00
ES172

FA 99	0405 IHB HP	COOK	28 15
STA		TH STA	
FED AID PROJ. (U) 146(27)			

F=0
C=4
GB=2
623.75
621.7
F=12
C=34
GB=6
624.12
622.6
623.5
F=22
C=52
GB=28
624.46
623.0
625.663
624.80
F=0
C=62
GB=96
628.696
624.2
624.98
F=263
C=4
GB=28
632.222
Sodding
623.4
625.07
622.6
Sodding
F=664
C=8
GB=28
634.235
634.610
625.03
622.9
623.2
F=1064
C=8
GB=28
634.607
634.982
625.00
623.0
F=1148
C=6
GB=28
635.327
624.99
623.0
F=694
C=2
10'
5'

18 + 00 425
17 + 00 425
16 + 00 425
15 + 00 425
14 + 00 425
13 + 00 425
12 + 00 425
11 + 00 425
11 + 38.69 425

ES173

FED. ROAD DIST. NO. 7	STATE ILLINOIS	FED. AID PROJECT U / 186(27)
STA.	TO STA.	
FA 99	040511	COOK	26	18
FED. ROAD DIST. NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.

Geese Pt Road

625.6 623.8 F=1 C=6 60+2

625.5 624.0 F=6 C=21 60+4

625.3 624.2 F=10 C=35 60+10

625.1 624.6 F=0 C=69 60+28

625.0 625.34 F=9 C=34 60+20

623.4 623.6 623.7

24 + 20.29 625

24 + 00 625

23 + 00 625

22 + 00 625

21 + 11.12 625

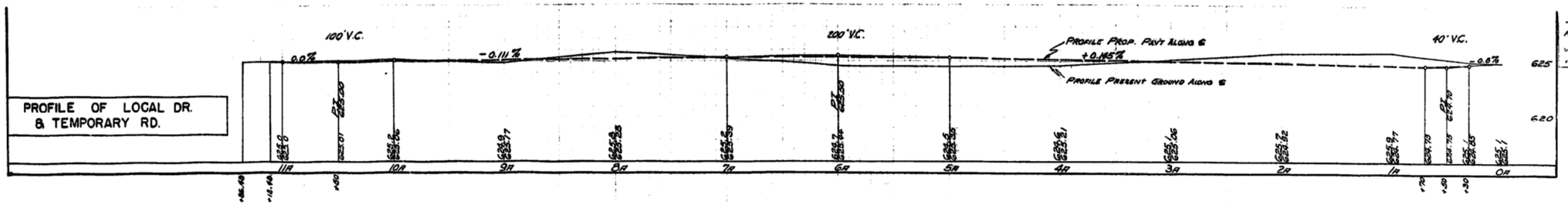
PLATE 3 CROSS SECTION P.P.R.'S

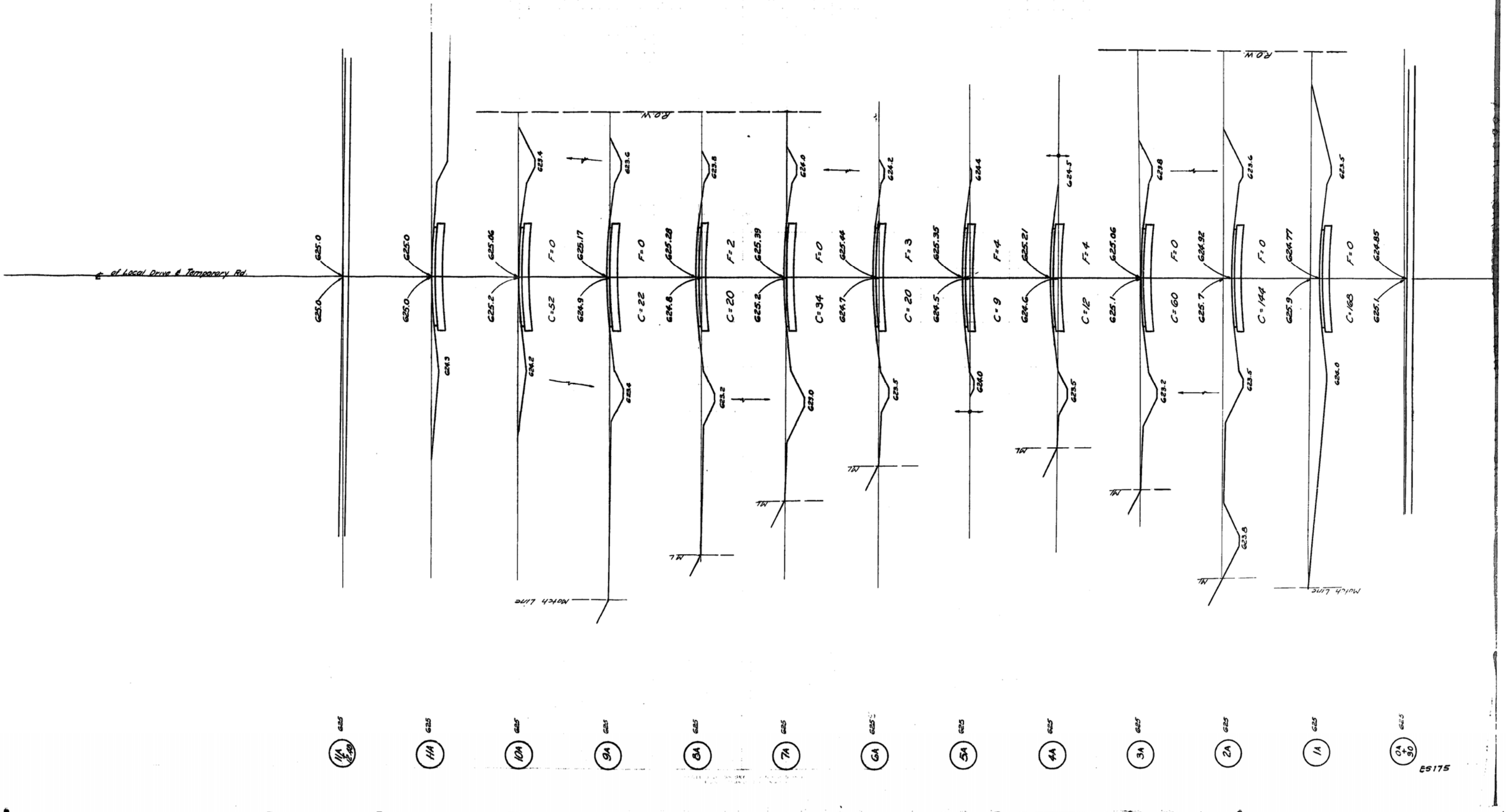
25174

-X804

STATE	COUNTY	TOTAL SHEETS	SHEET NO.
FA 99 040E:HB	COOK	26	17
SEC.	TOWN		
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT U 146(27)		

PROFILE OF LOCAL DR. & TEMPORARY RD.





ES175

SECTION	COUNTY	SHEET
FA 99 0405 HB HF	COOK	26 18
FROM STA	TO STA	
FED. AID PROJECT U.I. 146(27)		

156 622 — 622.6 — 618.18 617.79 617.43 617.05 618.18 617.79 617.43 616.08 616.98 — C F — 622 156

155 622 — 622.9 — C-9268 — 616.99 616.63 617.36 617.80 617.36 616.99 616.63 — C F — 622 155

Limits of Excavation Under Contract 0405-1 H

154 624 — 626.6 — C-11525 — 618.28 618.27 618.01 617.88 617.88 618.27 618.01 618.88 618.88 — C F — 624 154

153 624 — 626.4 — C-11647 — 618.28 618.27 618.01 618.18 618.18 618.27 618.01 618.18 618.18 — C F — 624 153

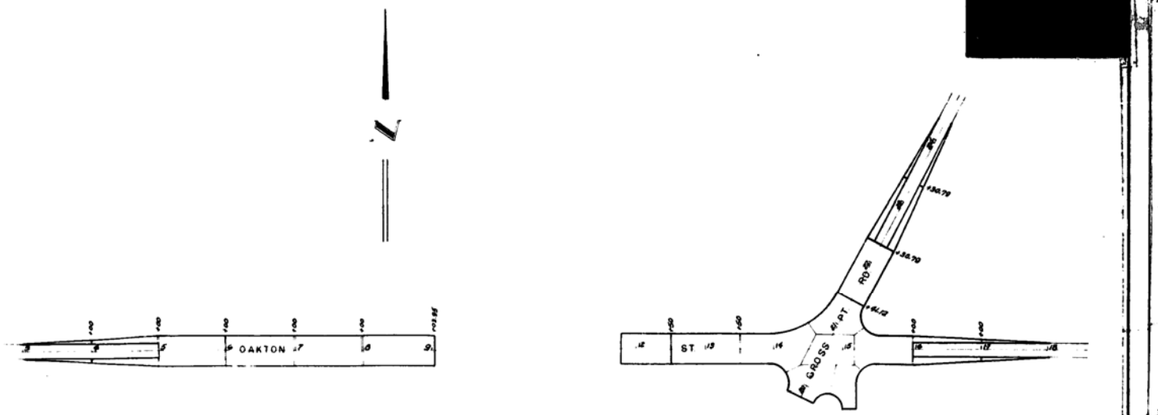
152 624 — 624.7 — 618.04 618.10 618.32 618.86 618.86 618.48 618.48 618.32 618.18 — C F — 624 152

151 624 — 624.9 — 618.37 618.61 618.20 618.87 618.37 618.61 618.87 618.70 618.70 — C F — 624 151

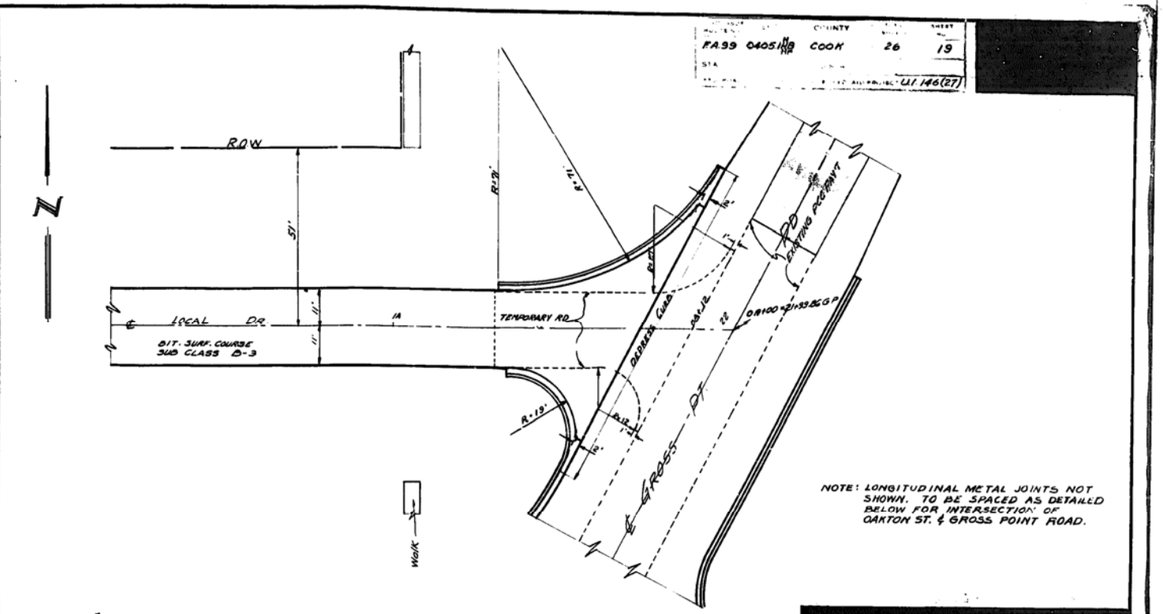
150 100 50 50 100 150

PLATE 3 CROSS SECTION B P R Standard
EUGENE DITZEN CO., Chicago-New York

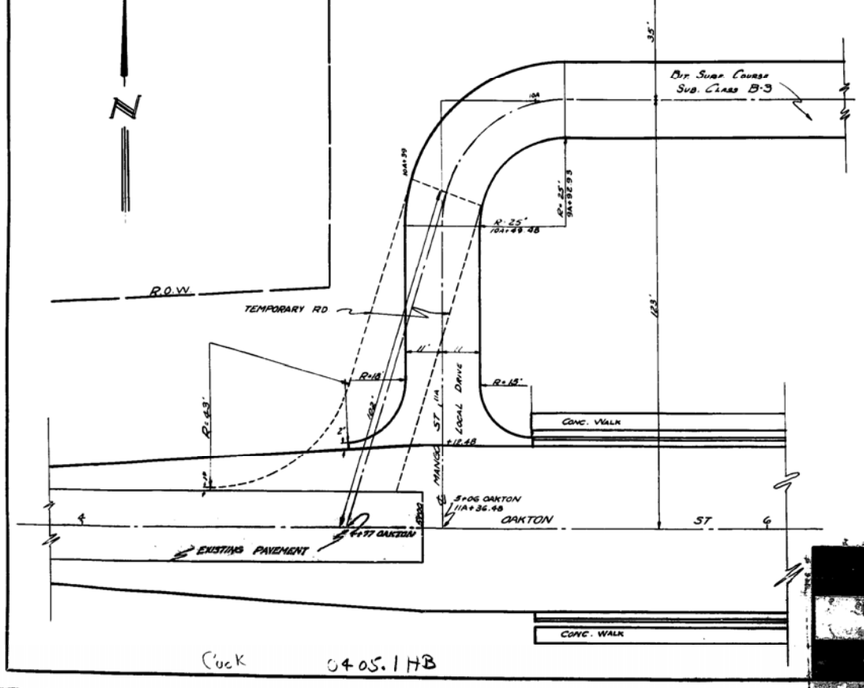
ES 116
Printed in U.S.A.
On IMPERIAL Tracing Cloth



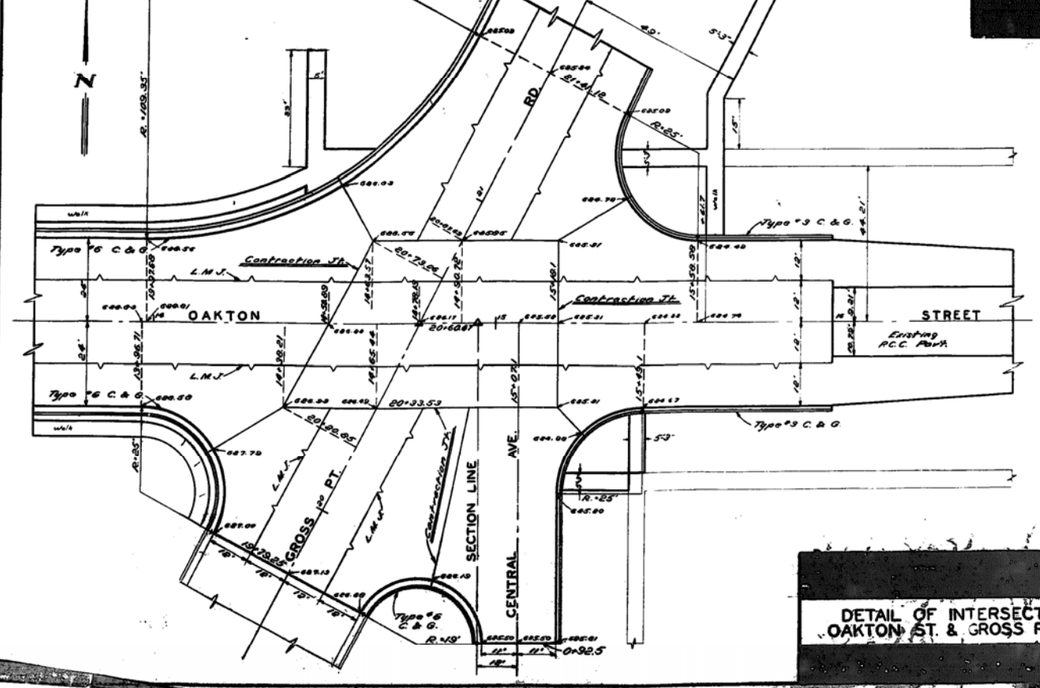
CONTRACTION JOINT LAYOUT



DETAIL OF INTERSECTION
LOCAL DR. & GROSS PT. RD.



DETAIL OF INTERSECTION
LOCAL DR. & OAKTON ST.



DETAIL OF INTERSECTION
OAKTON ST. & GROSS PT. RD.

Cook 0405.1HB

Cook 0405.1HB

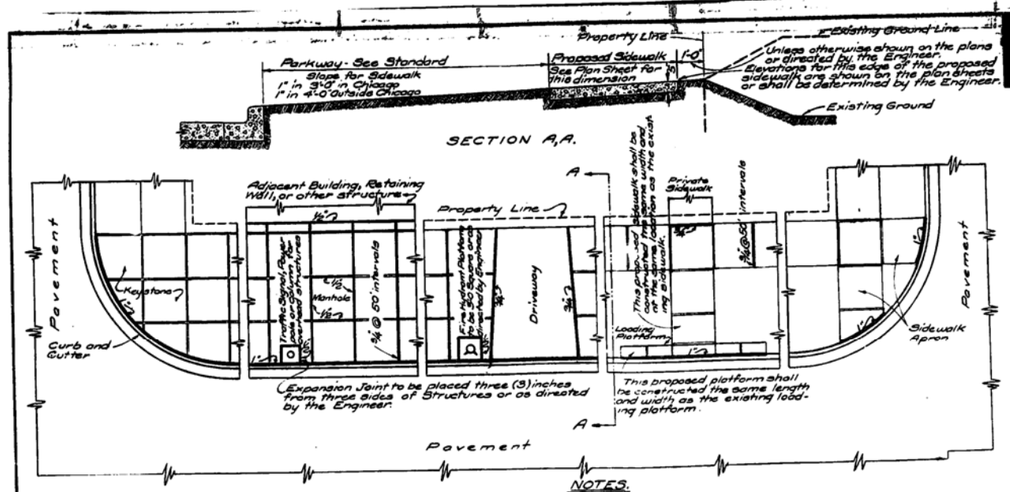
COUNTY	SHEET NO.
FA 99 0405 IHB COOK	26 20

U.I. 146(27)

TYPICAL CROSS SECTION

CROSS SECTION
BITUMINOUS SURFACE

TYPICAL CROSS SECTION



NOTES.

The following one (1) inch Expansion Joints will be paid for at the contract unit price per square foot for Bituminous Longitudinal Curb Expansion Joint.

1. Between the back of the curb and sidewalk.
2. Between the back of the curb and all structures one (1) inch or less from the back of curb.

The cost of the following ¾ inch and one half (½) inch expansion joints shall be included in the contract unit price per square foot for Portland Cement Concrete Sidewalk.

1. The ¾ inch and the one half (½) inch joints in the sidewalk proper.
2. The ¾ inch joint between public and private walks & drives.
3. The one half (½) inch joints between the sidewalk and adjoining building walls.
4. The one half (½) inch joints between the sidewalk and all structures which extend through the sidewalk such as:- Light Standards, Trolley and Power Poles, Columns of Overhead Structures, Manholes, etc.

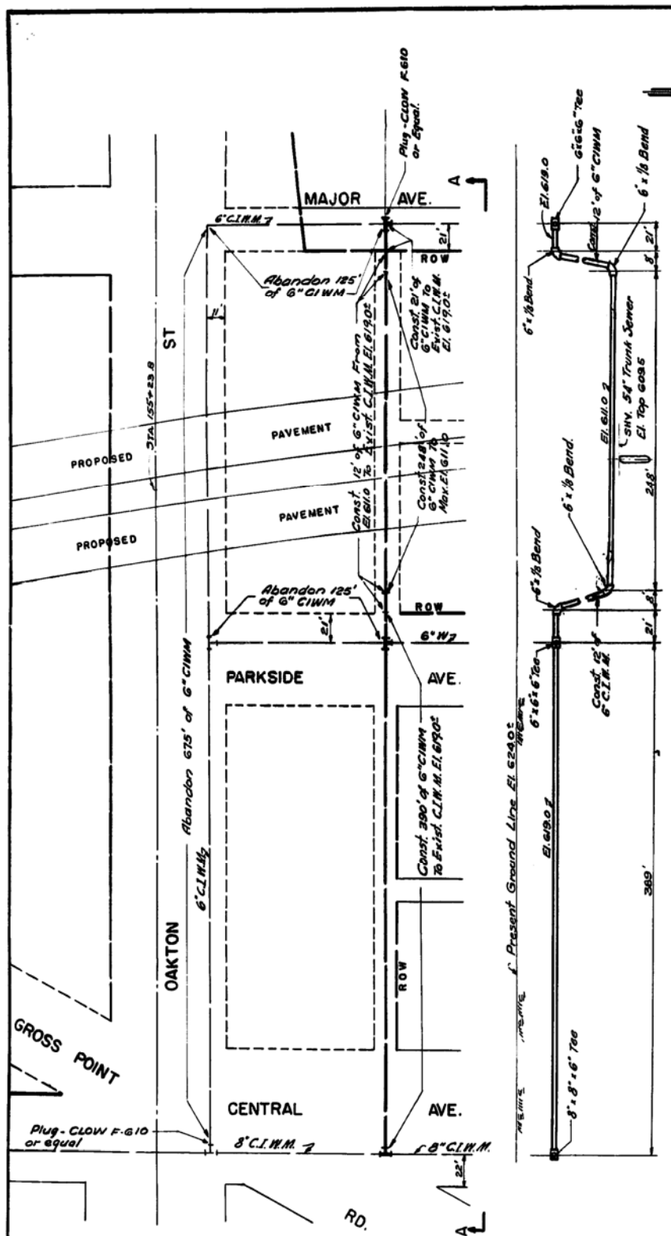
The sidewalk shall be paid for at the Contract unit price per square foot for P.C.C. Sidewalk.

DETAILS OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION

Cook 0405-IHB

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 99	9405INR	COOK	26	26
		TO STA.		
	ILLINOIS	FED. AID PROJECT	U.I. 146(27)	

[redacted]


N
MAJOR AVE.
A
6" CI.W.M.
Plug - CLOW F-610 or Equal
Abandon 125' of 6" CIWM
Const. 21'-9" 6" CIWM to Exist. CI.W.M. El. 612.0±
Const. 12" of 6" CIWM From Exist. CI.W.M. El. 612.0± to Exist. CI.W.M. El. 610.0±
PROPOSED PAVEMENT
PROPOSED PAVEMENT
Abandon 125' of 6" CIWM
ROW
6" W.J.
PARKSIDE AVE.
ST
OAKTON
Abandon 675' of 6" CIWM
6" C.I.W.M.
GROSS POINT
CENTRAL AVE.
Plug - CLOW F-610 or equal
8" C.I.W.M.
8" C.I.W.M.
ROW
Const. 390' of 8" Exist. C.I.W.M. El. 612.0±
RD.
A
Scale 1" = 50'
6" Cast Iron Water Line El. 624.0±
6" x 1/8 Bend
6" x 1/8 Bend
6" x 1/8 Bend
6" x 1/8 Bend
El. 618.0
Const. 2' of 6" CIWM
Const. 2' of 6" CIWM
El. 610.2
CHY. 54" Trunk Sewer El. Top 606.6
Present Ground Line
El. 609.2
8" x 8" x 6" Tee
369'
SECTION A-A
Scale = Hor. 1"=50', Vert. 1"=10'

SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM
683'	Lin. ft.	6" Cast iron water main.
45	Cu. Yds.	Trench backfill
		NOTE: Quantities shown here are not shown elsewhere except in Summary of Quantities on Cover Sheet.

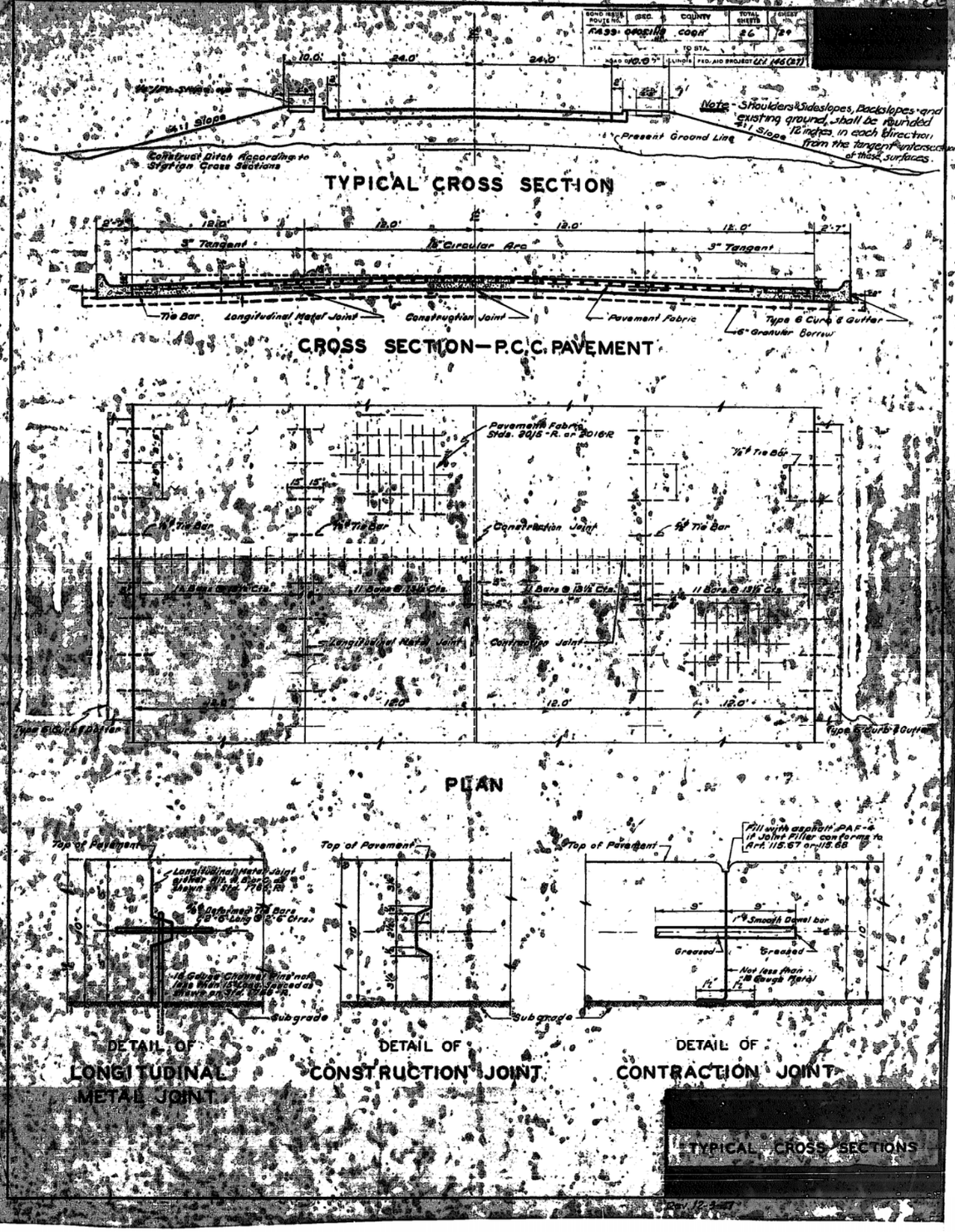
NOTE- All pipe fittings and valves necessary in the construction of cast iron water mains as indicated in these plans are to be included in the unit price per lineal foot of Cast Iron Water Main of the diameter specified.

[redacted]

EDENS SUPERHIGHWAY
UTILITIES ADJUSTMENTS
OAKTON ST. GRADE SEPARATION

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 99	9405INR	COOK	26	26
		TO STA.		
	ILLINOIS	FED. AID PROJECT	U.I. 146(27)	

[redacted]



TYPICAL CROSS SECTIONS