

STATE PROJECT	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
82111	I-75-(14)50	1	1

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN STATE HIGHWAY DEPARTMENT CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS

**MICHIGAN**  
**STATE HIGHWAY DEPARTMENT**  
**JOHN C. MACKIE**  
 STATE HIGHWAY COMMISSIONER

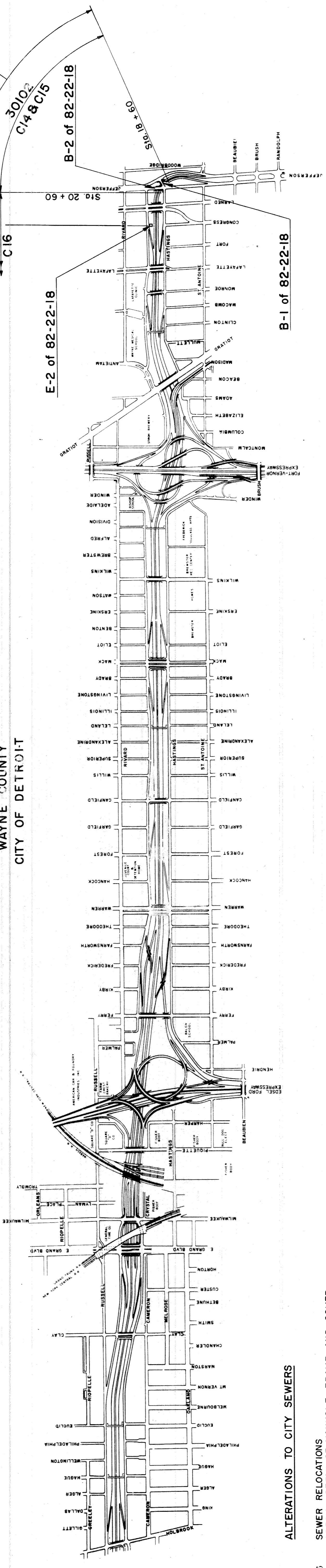
**PLANS OF PROPOSED**

**MICHIGAN PROJECT I-75-1(31)50**  
**CONTROL SECTION BI 82111 C14, 15 UN-30102 & BI 82111 C16 UN-30103**  
**THE WALTER P. CHRYSLER EXPRESSWAY**

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**ROADWAY AND MISCELLANEOUS**

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- 9 REMOVAL ITEMS
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WAYNE COUNTY  
 CITY OF DETROIT



ITEM NO. 362  
 CONTRACT FOR G.B.D.S., DETOUR PAVING & UTIL. ALTERATIONS

DIVISION ILLINOIS  
 CHECKED [Signature] DATE 10-7-60  
 RECOMMENDED FOR APPROVAL [Signature] DATE 10-7-60  
 RECOMMENDED FOR APPROVAL [Signature] DATE 10-7-60

OFFICES OF DESIGN AND CONSTRUCTION  
 APPROVED [Signature] DATE 10-7-60  
 APPROVED [Signature] DATE 10-7-60

STATE HIGHWAY DEPARTMENT APPROVAL  
 APPROVED JOHN C. MACKIE, STATE HIGHWAY COMMISSIONER  
 BY [Signature] DIRECTOR OF ENGINEERING - CHIEF ENGINEER DATE 10-7-60

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED [Signature] ENGINEER OF EXPRESSWAYS  
 APPROVED [Signature] ASSISTANT CITY ENGINEER-HIGHWAYS AND EXPRESSWAYS  
 APPROVED [Signature] CITY ENGINEER  
 APPROVED [Signature] COMMISSIONER OF PUBLIC WORKS AND EXPRESSWAYS - COORDINATION

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS  
 APPROVED [Signature] DIVISION ENGINEER DATE

**ALTERATIONS TO CITY SEWERS**

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- 26 WATER ALTERATIONS-WOODBRIDGE TO JEFFERSON AVE.
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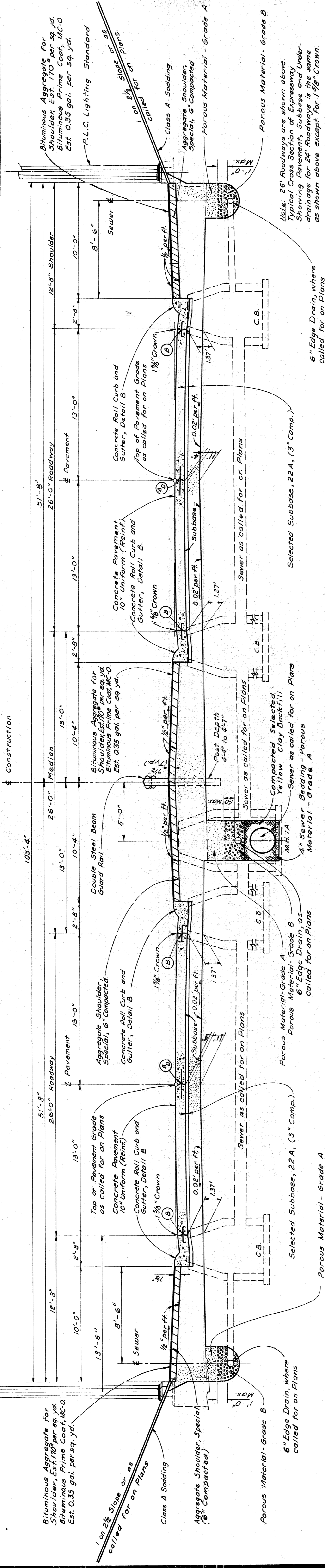
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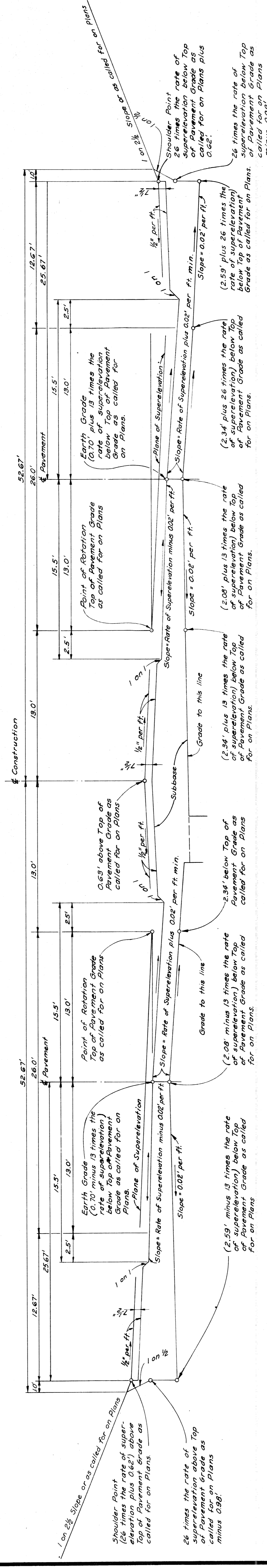
FOR INDEX OF PLANS OF B1 AND B2 OF 82-22-18 SEE SHEET 102

# TYPICAL CROSS-SECTIONS

STATE	PROJ. NO.	SHEET NO.	SHEET TOTAL
MICH.	1-25-(10)54	1	2
CITY	ROUTE	DATE	BY
Wayne	22777	1-25-54	W. J. ...
COUNTY	PROJECT	SCALE	DATE
Wayne		1"=4'	1-25-54



**TYPICAL CROSS SECTION OF EXPRESSWAY SHOWING PAVEMENT, SUBBASE AND UNDERDRAINAGE**  
SCALE 1"=4'

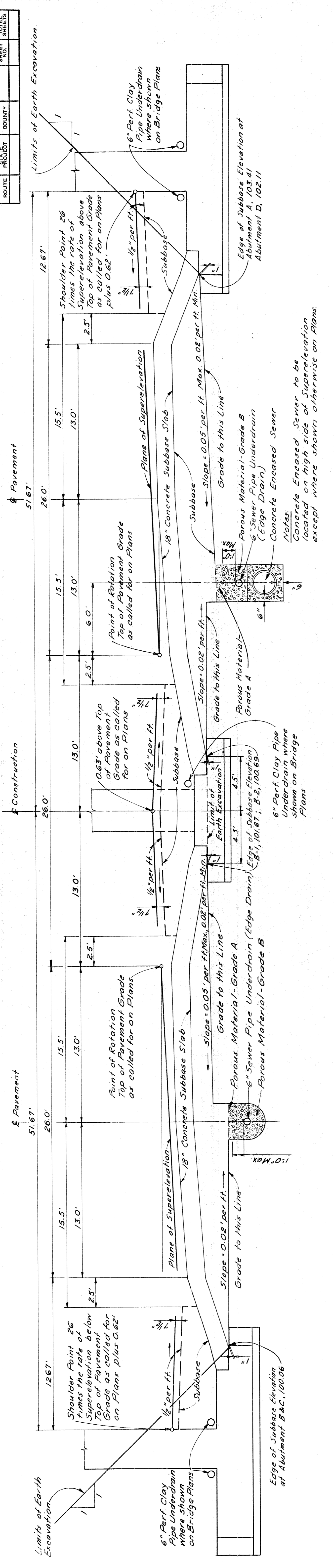


**TYPICAL CROSS SECTION FOR GRADING SUPERELEVATED EXPRESSWAY**  
SCALE 1"=4'

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

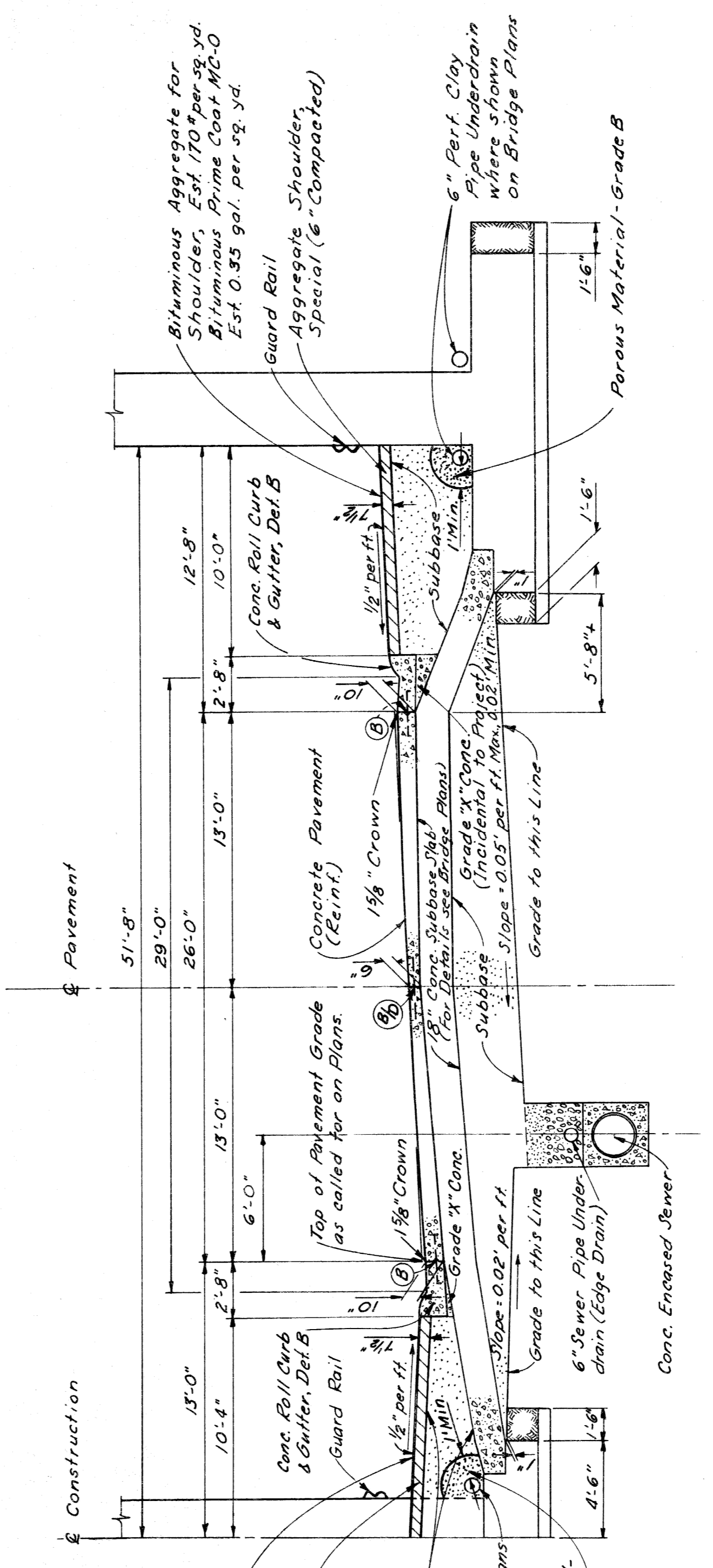
# TYPICAL CROSS-SECTIONS

STATE	MOH.	PROJ. NO.	7-22-10236	SHEET NO.	5	TOTAL SHEETS	5
CITY	MOYNE	DESIGN		SHEET NO.	5	TOTAL SHEETS	5
ROUTE	22711	PROJ. NO.		SHEET NO.	5	TOTAL SHEETS	5



### TYPICAL CROSS SECTION FOR GRADING TO APPLY UNDER STRUCTURES ON SUPERELEVATED CURVES

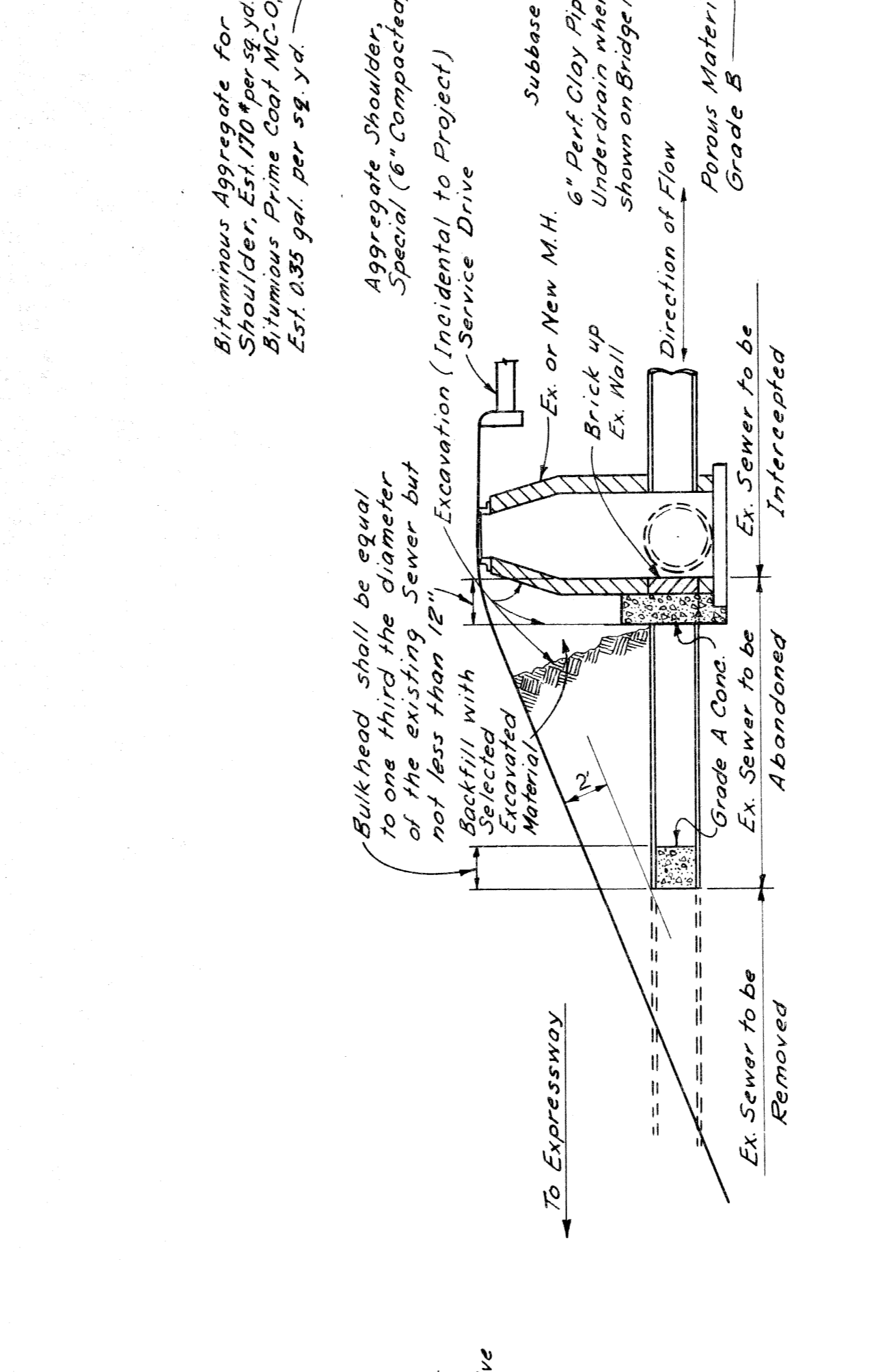
SCALE 1"=4'



For Joint Legend See SH#2

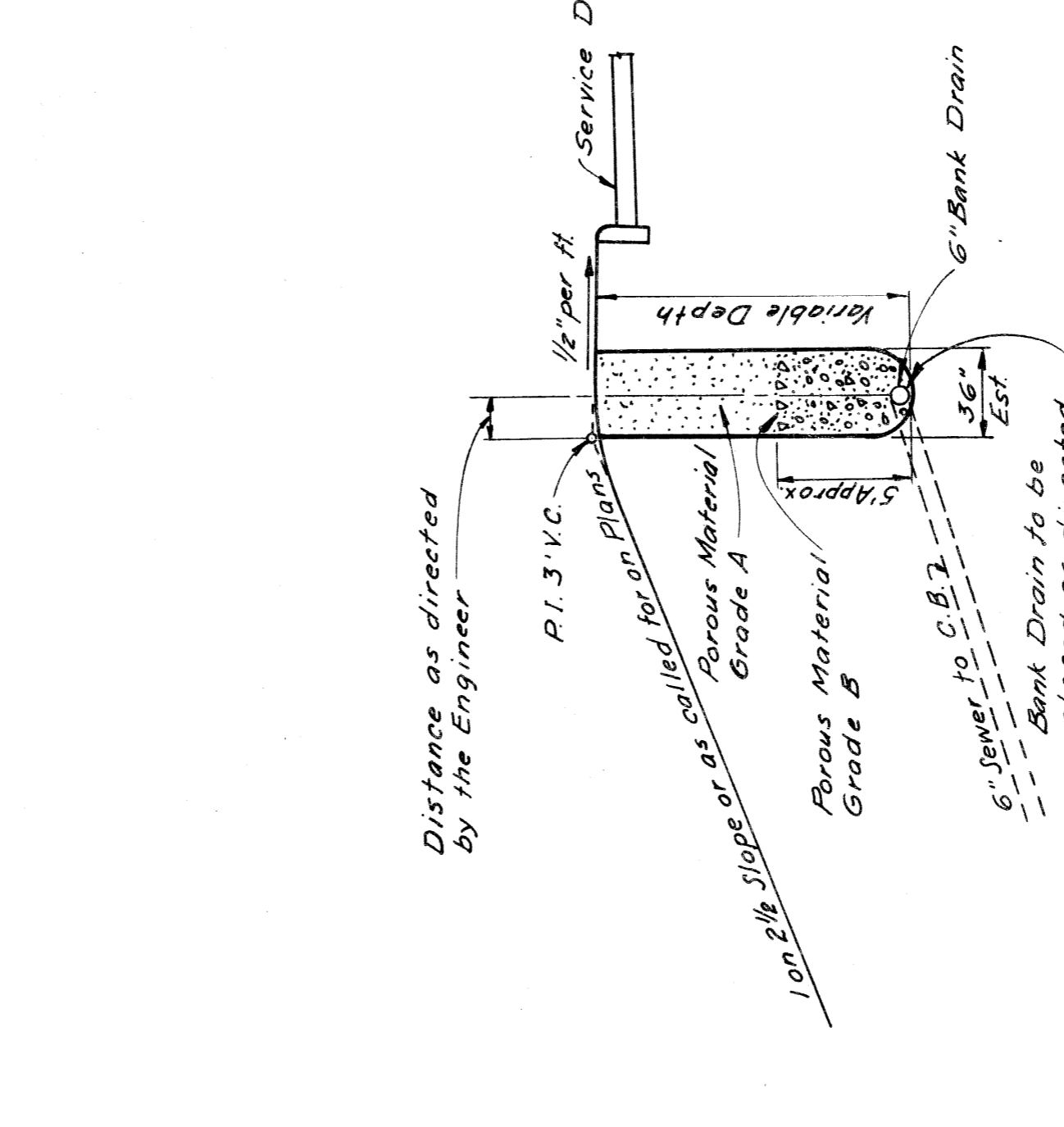
### TYPICAL HALF SECTION SHOWING FINISHED SUPERELEVATED EXPRESS ROADWAY TO APPLY UNDER STRUCTURES

SCALE 1"=5'



### SKETCH SHOWING METHOD FOR BULKHEADING SEVERED SEWERS

SCALE 1"=6'

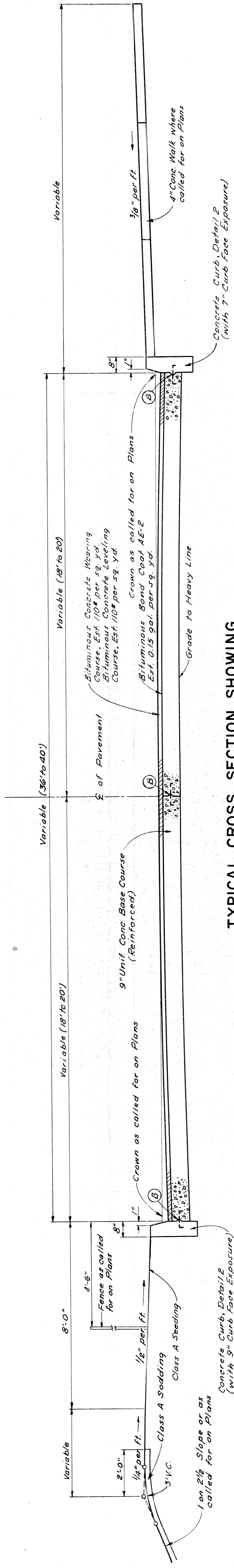


### SKETCH SHOWING BANK DRAIN USED WHERE DIRECTED BY THE ENGINEER

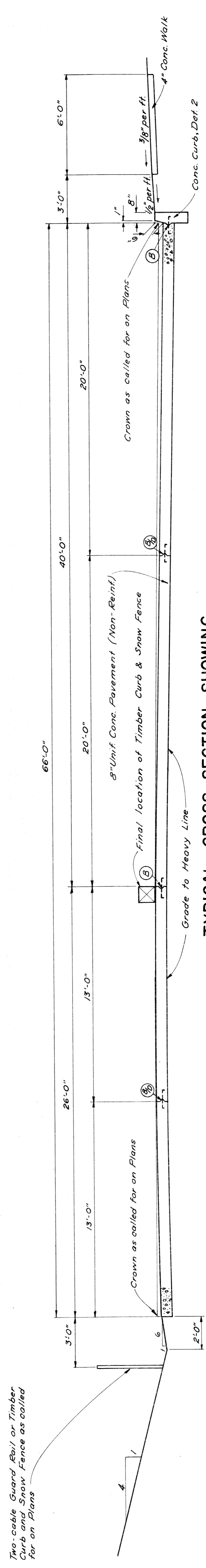
SCALE 1"=6'

# TYPICAL CROSS-SECTIONS

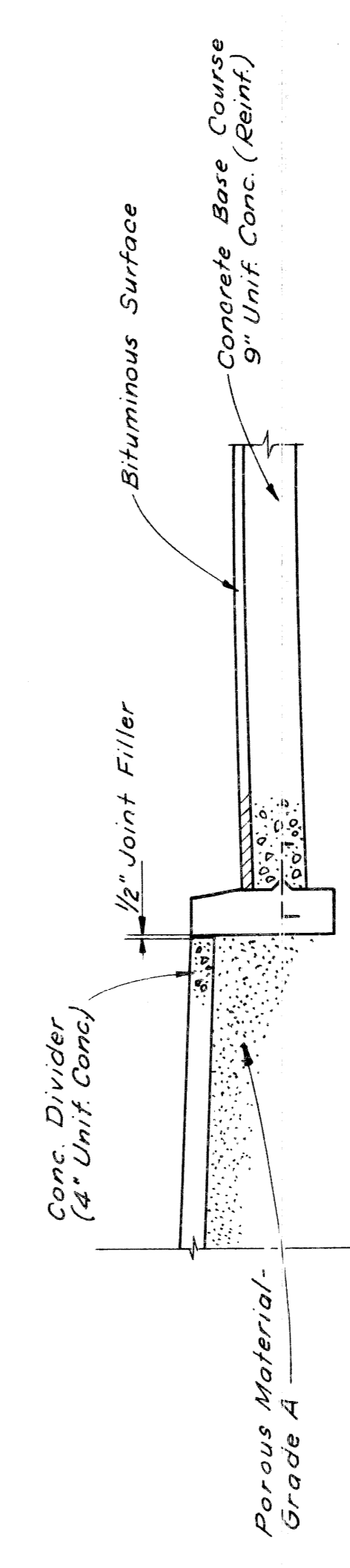
STATE	MICH.	PROJ. NO.	1-2-02/50	SHEET NO.	1	TOTAL SHEETS	2
COUNTY	Wayne	PROJECT	2777	SHEET NO.	2	TOTAL SHEETS	2
ROUTE	2777	PROJ. NO.		SHEET NO.		TOTAL SHEETS	



**TYPICAL CROSS SECTION SHOWING  
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)  
WITH BITUMINOUS CONCRETE PAVEMENT**  
TO APPLY ON EASTBOUND & WESTBOUND JEFFERSON Scale: 1"=2'



**TYPICAL CROSS SECTION SHOWING  
CONCRETE PAVEMENT 8" UNIFORM (NON-REINFORCED)**  
TO APPLY TO DETOUR PAVEMENT Scale: 1"=3'



**TYPICAL CROSS SECTION SHOWING  
CONCRETE DIVIDER ON BRIDGE APPROACHES**

**JOINT LEGEND**

- B Longitudinal Bulkhead Construction Joint, according to M.S.H.D. Std. Plan E-4-A-33 F, Detail 2
- D Longitudinal Lane Tie Joint with Tie Bars, according to M.S.H.D. Std. Plan E-4-A-335, Detail 1
- B-D Optional B or D

Note:  
The Concrete Base Course shall be reinforced throughout in accordance with M.S.H.D. Std. Plan E-4-A-21 F.

**B1 82111 C14 UN-30102**

The following items of work shall be done as they apply throughout the project. These items are not detailed or included on the plan and profile sheets.

**SPECIAL PROVISIONS**

**GRADES FOR INTERSECTIONS**  
All intersections are to be considered as complete units and their grades determined before construction is started.

**TRANSVERSE JOINTS IN CONCRETE PAVEMENT**  
Transverse joints in concrete pavement shall be placed according to details on Standard Plan E-4-A-135A and E-4-A-127A.

**TRANSVERSE PLANE OF WEAKNESS JOINTS IN CONCRETE BASE COURSE**  
Transverse plane of weakness joints shall be placed according to Standard Plan E-4-A-127A.

**TRANSVERSE JOINTS IN CONCRETE BASE COURSE**  
In the concrete base course widening, transverse plane of weakness joints shall be placed in line with expansion joints in the existing concrete pavement.

**HAND FINISHING**  
Hand finishing according to 4 1403-q-1 of the Standard-Specifications will be permitted on intersections outside of the normal traffic lanes.

**PAVEMENT REINFORCEMENT**  
The pavement reinforcement shall conform to Standard Plan E-4-A-21F except that the length of sheet or mat for 12 foot lanes may be 15'-0" instead of 10'-0". The laying lap for 15-foot length sheet or mat shall be 13 inches. The computed weight of steel per standard sheet is as follows:

Type of Reinforcement	Weight per 15-foot length of Standard Sheet for 12-foot Lanes in Lbs.
Mesh	1289
Bar Mat	1422
Expanded Metal	1380

**GENERAL PLAN NOTES**  
No poles will be permitted within the right of way along this project except as authorized by the Engineer.

**GENERAL PLAN NOTES**

No poles will be permitted within the right of way along this project except as authorized by the Engineer.

**FINE GRADING AND CLEANUP AND STAS.**

**TRIMMING AND FINISHING EARTH GRADE STAS.**

EXPRESSWAY	North Bound	South Bound	STAS.
18+65	21+31		2.66
18+65	21+15		2.50
<b>EAST BOUND JEFFERSON AVE.</b>			
18+00	22+24.24		4.24
<b>WEST BOUND JEFFERSON AVE.</b>			
16+05	18+94.39		2.89
20+29.70	21+15		0.85
<b>TEMPORARY PAVEMENT</b>			
Jefferson Ave. Detour			
2+34	7+86		5.52
			13.50
			5.16

**B1 82111 C14 UN-30102**

The following items are estimated for the entire project to correct possible unstable subgrade conditions where designated by the Engineer

Item	Quantity	Unit
6" Bank Drain	0	271 Lin. Ft. /023
6" Sewer (6'-1" x 4'-0" Deep) for bank drain	0	149 Lin. Ft. /024
Excavation (Waste from Bank Drain Sewer Trenches)	0	363 Cu. Yds. /024
Porous Material - Grade A	0	267 Cu. Yds. /026
Porous Material - Grade B	0	116 Cu. Yds. /020

Restoring Roadside --- | Acre

**B1 82111 C15 UN-30102**

Mulching --- | Ton  
Seeding --- | Acre

**NOTES APPLYING TO STANDARD PLANS**

Where the following items are called for on plans, they are to be constructed according to the Standard Plan given below opposite each item unless otherwise indicated.

Cross references on Standard Plans shall be understood to refer to the latest approved Standard Plan for the detail in question.

ITEM	STANDARD PLAN
Edge Drain	E-4-A-9D, Detail 5
Sodding	E-4-A-10B
Pavement Reinforcement	E-4-A-21F
Manholes, Catch Basins and Inlets	E-4-A-27R-3
Cover A	E-4-A-27A-3
Cover B	Optional-E-4-A-27B-3 or E-4-A-27B-4
Cover D	E-4-A-27D-3
Concrete Curb, Roll Curb and Curb and Gutter Curb and Gutter Headers	E-4-A-29E
Driveway Returns and Driveway Openings	E-4-A-29E
Concrete End Header (at pavement ends)	E-4-A-29E, Detail 20
Bridge Header	E-4-A-29E, Detail 21
Pavement Joints	E-4-A-33F (except that plain tie bars will not be permitted.)
Superelevation of Curves	E-4-A-49B-7 (except that the rate of super-elevation is to be called for on plans.)
Pavement Crowns	E-4-A-49B-7
Two Cable Guard Rail and Guard Posts	E-4-A-75C-2
4" Concrete Sidewalk	E-4-A-110B, Detail 2
7" Concrete Sidewalk	E-4-A-110B, Detail 3
Typical Joint Layout	E-4-A-127A
Tile Trap	E-4-A-129
Dowel Bar Installation for Load Transfer at Transverse Contraction and Expansion Joints	Optional E-4-A-130A E-4-A-130B E-4-A-130D, or other approved equal.
Base Plates for Transverse Pavement Joints	E-4-A-138 (except that spot welds may be substituted for rivets to attach the one inch angle.)
Location of Transverse Expansion and Contraction Joints in Concrete Pavement	E-4-A-135A
Barricade and Project Sign	E-6-A-55E

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	1-25-10136	1	3

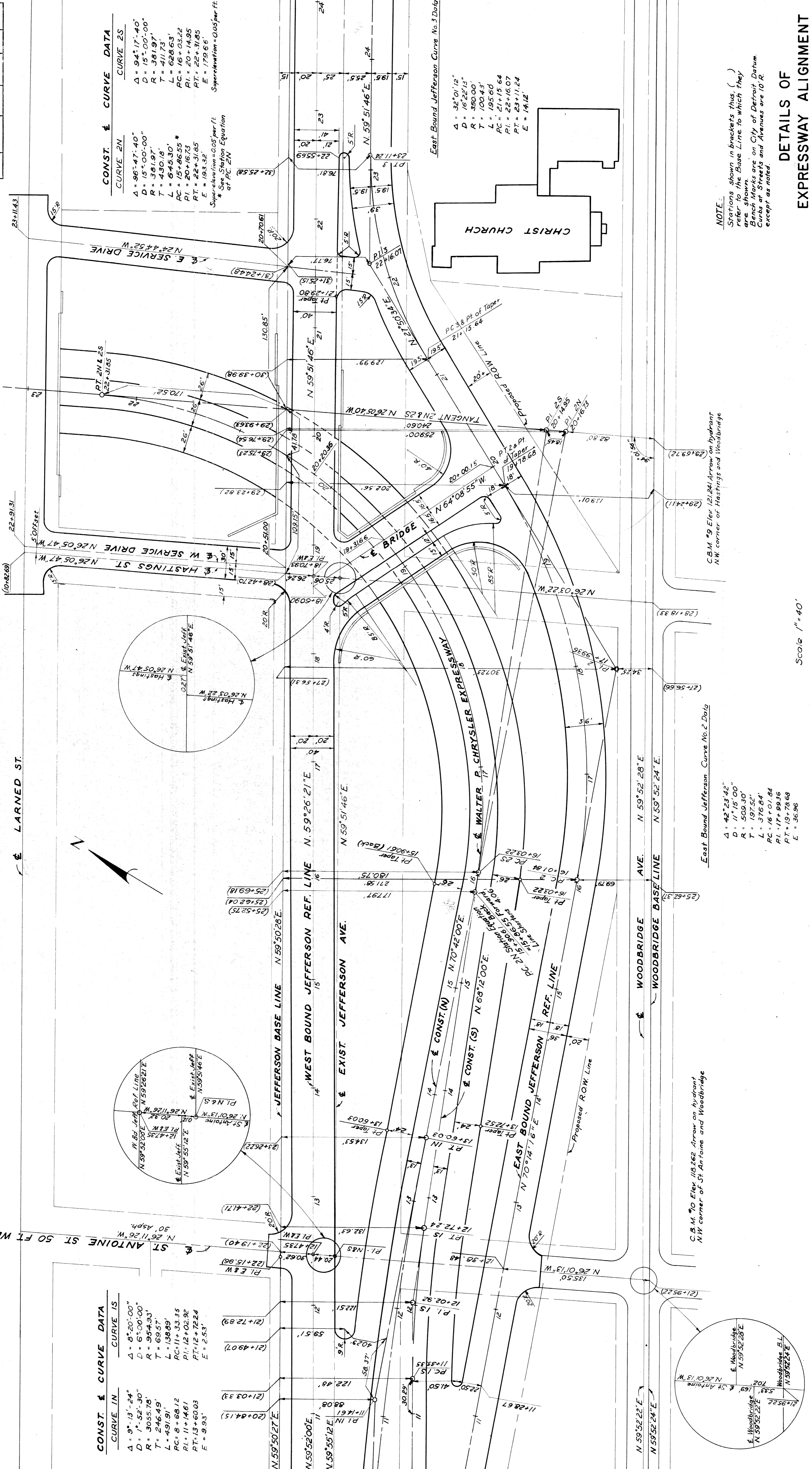
CITY	PROJ. NO.	SHEET NO.	TOTAL SHEETS
Wayne	10136	1	3

STATE	PROJ. NO.	FEED. SHEET	SHEET NO.
MICH.	1-15-0130		
COUNTY	ROUTE	PROJ. NO.	FEED. SHEET
Wayne	82111		
CITY	ROUTE	PROJ. NO.	FEED. SHEET
Hastings			

C.B.M. #6 Elev. 123.571 Arrow on hydrant NE corner of Hastings and Larned

C.B.M. #5 Elev. 124.735 Arrow on hydrant N.E. corner of St. Antoine and Larned

C.B.M. #10 Elev. 118.262 Arrow on hydrant NW corner of St. Antoine and Woodbridge



CURVE IN	CURVE IS
Delta = 9° 13' 24"	Delta = 8° 20' 00"
D = 152' 30"	D = 600' 00"
R = 3055.78'	R = 954.93'
T = 246.49'	T = 69.57'
L = 491.91'	L = 138.89'
PC = 8+68.12	PC = 11+33.35
PI = 11+14.61	PI = 12+02.92
PT = 13+60.03	PT = 12+72.24
E = 9.93'	E = 2.53'

CURVE 2N	CURVE 2S
Delta = 96° 47' 40"	Delta = 94° 17' 40"
D = 15° 00' 00"	D = 15° 00' 00"
R = 381.97'	R = 381.97'
T = 411.73'	T = 411.73'
L = 643.03'	L = 628.63'
PC = 15+96.55 *	PC = 16+03.22
PI = 20+16.23	PI = 20+14.95
PT = 22+31.85	PT = 22+31.85
E = 193.32'	E = 179.66'

Superelevation = 0.05 per ft  
\* See Station Equation of PC 2N

NOTE:  
Stations shown in brackets thus, ( ) refer to the Base Line to which they are shown.  
Church marks are on City of Detroit Datum.  
Curves 2N and 2S and Avenues are 10 R.  
except as noted.

### DETAILS OF EXPRESSWAY ALIGNMENT

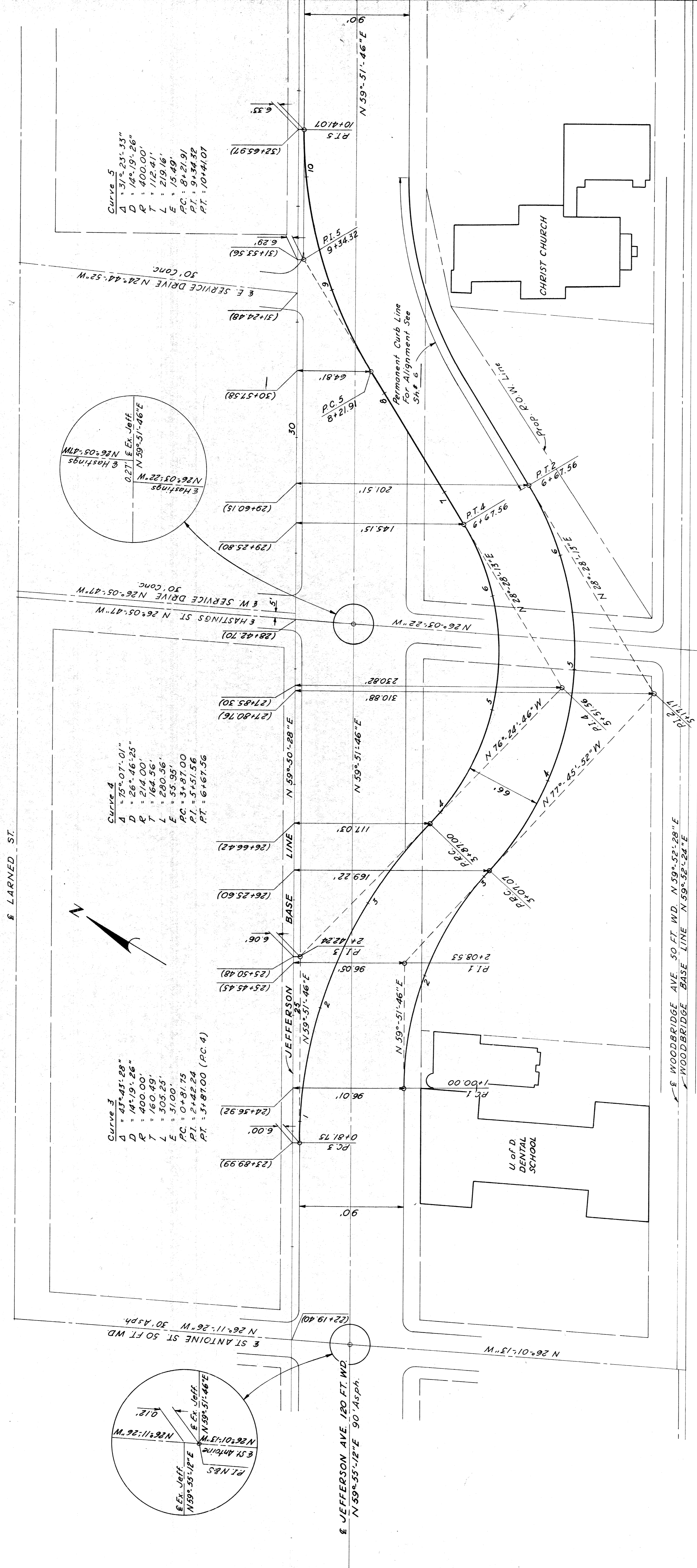
Scale 1" = 40'

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
7-25-10/10/10	101/100	7	7
STATE	CITY	PROJ. NO. <td>TOTAL SHEETS </td>	TOTAL SHEETS
MI	Detroit	101/100	7
ROUTE	PROJ. NO. <td>SHEET NO. <td>TOTAL SHEETS </td></td>	SHEET NO. <td>TOTAL SHEETS </td>	TOTAL SHEETS
82111	101/100	7	7

C.B.M. #6 Elev. 123.571 Arrow on Hydrant  
N.E. Corner of Hastings St. and Larned St.

C.B.M. #5 Elev. 124.736 Arrow on Hydrant  
N.E. Corner of St. Antoine St. and Larned St.



**Curve 3**  
 $\Delta = 43^{\circ}43'28''$   
 $D = 14^{\circ}19'26''$   
 $R = 400.00'$   
 $T = 160.49'$   
 $L = 305.25'$   
 $E = 31.00'$   
 $PC = 0+81.75$   
 $PT = 2+42.24$   
 $PI = 3+87.00$  (P.C. 4)

**Curve 4**  
 $\Delta = 75^{\circ}07'01''$   
 $D = 26^{\circ}46'25''$   
 $R = 214.00'$   
 $T = 164.56'$   
 $L = 280.56'$   
 $E = 55.95'$   
 $PC = 3+87.00$   
 $PT = 5+51.56$   
 $PI = 6+67.56$

**Curve 5**  
 $\Delta = 37^{\circ}23'33''$   
 $D = 14^{\circ}19'26''$   
 $R = 400.00'$   
 $T = 112.41'$   
 $L = 219.16'$   
 $E = 15.49'$   
 $PC = 8+21.91$   
 $PT = 9+34.32$   
 $PI = 10+41.07$

**Curve 1**  
 $\Delta = 42^{\circ}22'22''$   
 $D = 20^{\circ}27'46''$   
 $R = 280.00'$   
 $T = 108.53'$   
 $L = 207.07'$   
 $E = 20.30'$   
 $PC = 1+00.00$   
 $PT = 2+08.53$   
 $PI = 3+07.07$  (P.C. 2)

**Curve 2**  
 $\Delta = 73^{\circ}45'55''$   
 $D = 20^{\circ}27'46''$   
 $R = 280.00'$   
 $T = 210.10'$   
 $L = 360.49'$   
 $E = 70.06'$   
 $PC = 3+07.07$   
 $PT = 5+17.17$   
 $PI = 6+67.56$

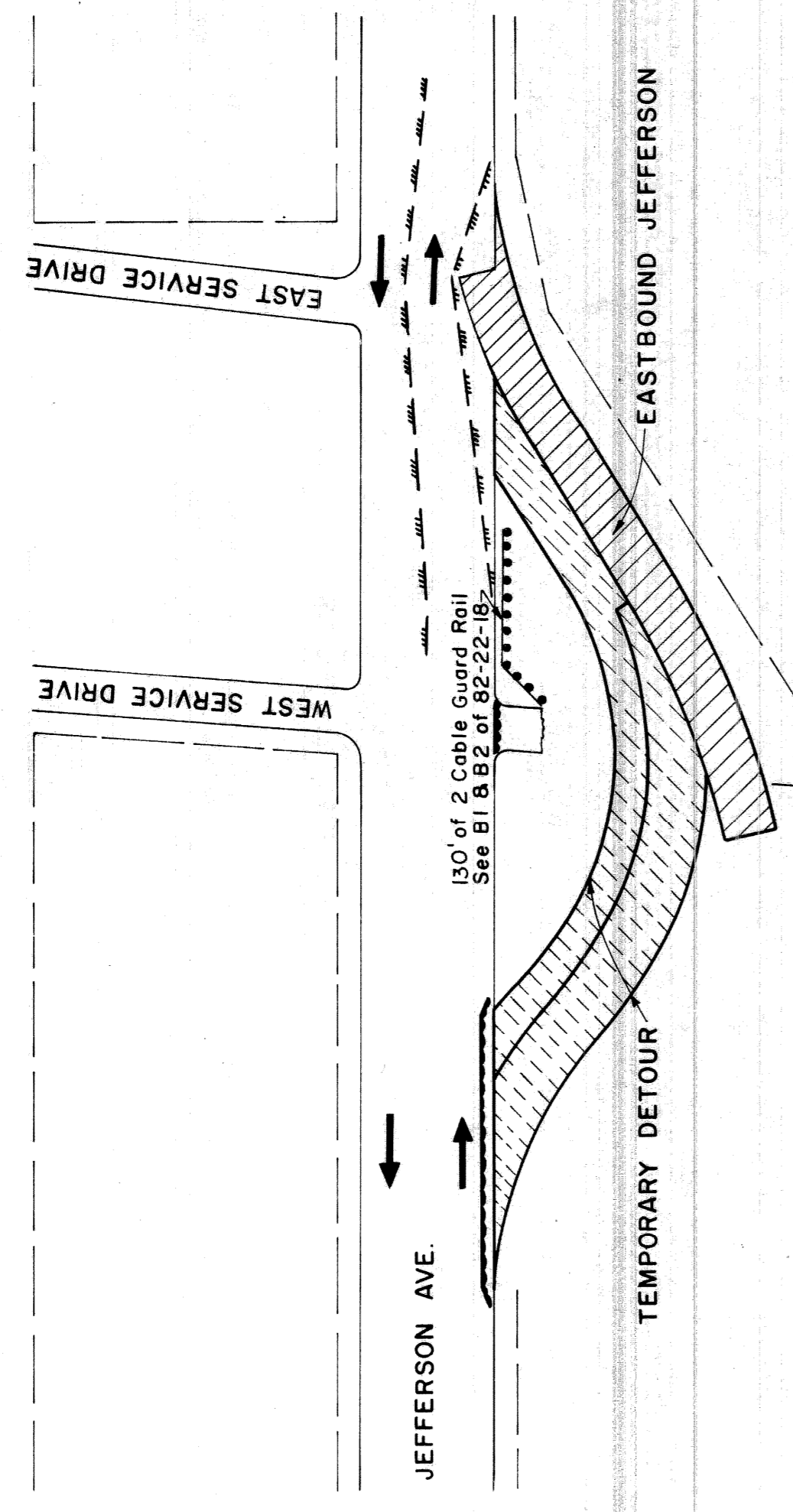
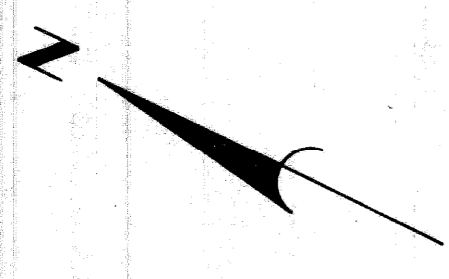
**Note:**  
 Stations shown in brackets thus, ( ), refer to the Base  
 Line to which they are shown.  
 Bench Marks are on City of Detroit Datum.  
 Curbs at Streets and Avenues are 10' R. except as noted.

Scale: 1"=40'

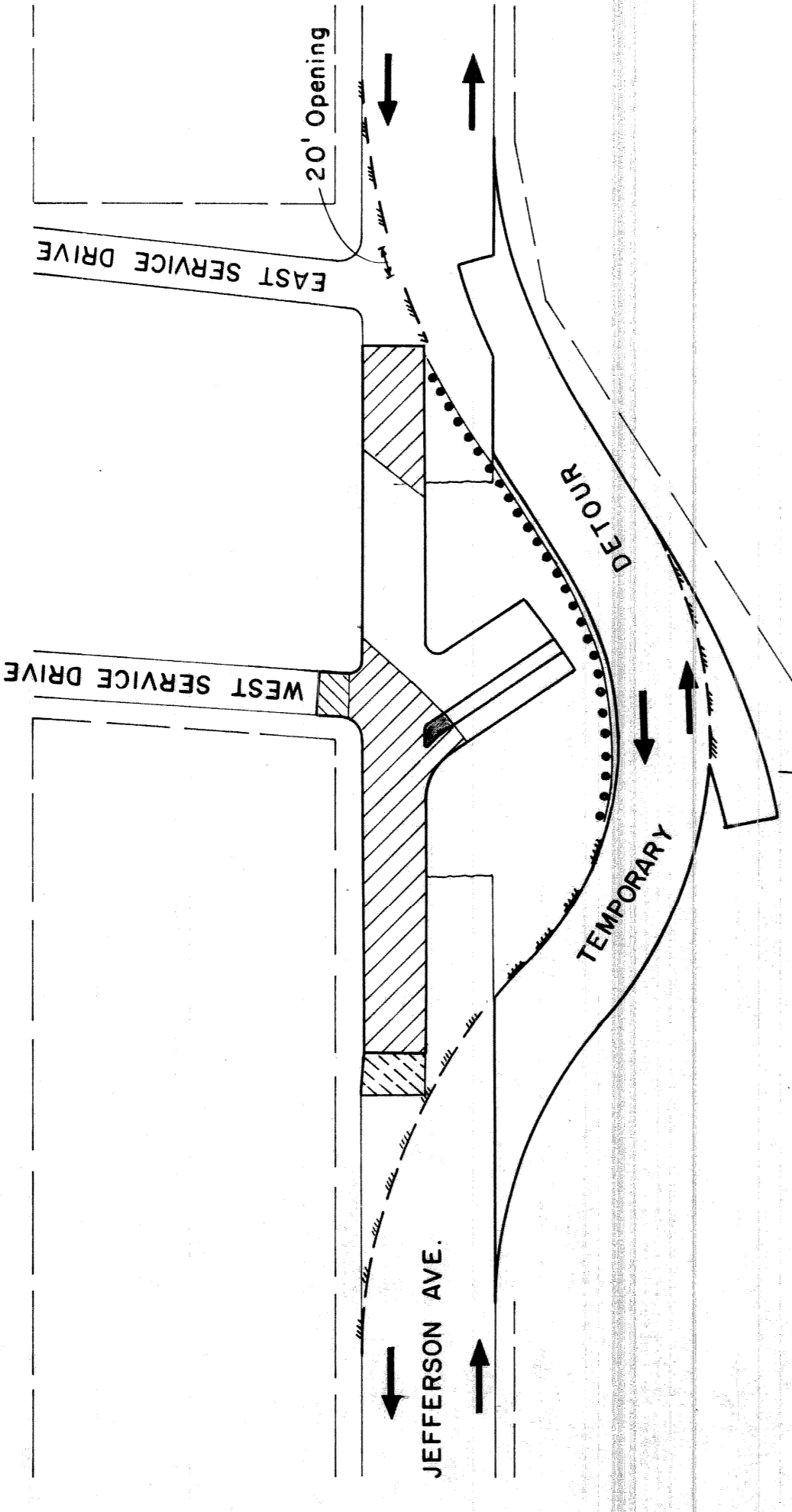
**DETAILS OF JEFFERSON AVE.  
 DETOUR ALIGNMENT**

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 BUREAU OF STREETS AND HIGHWAYS

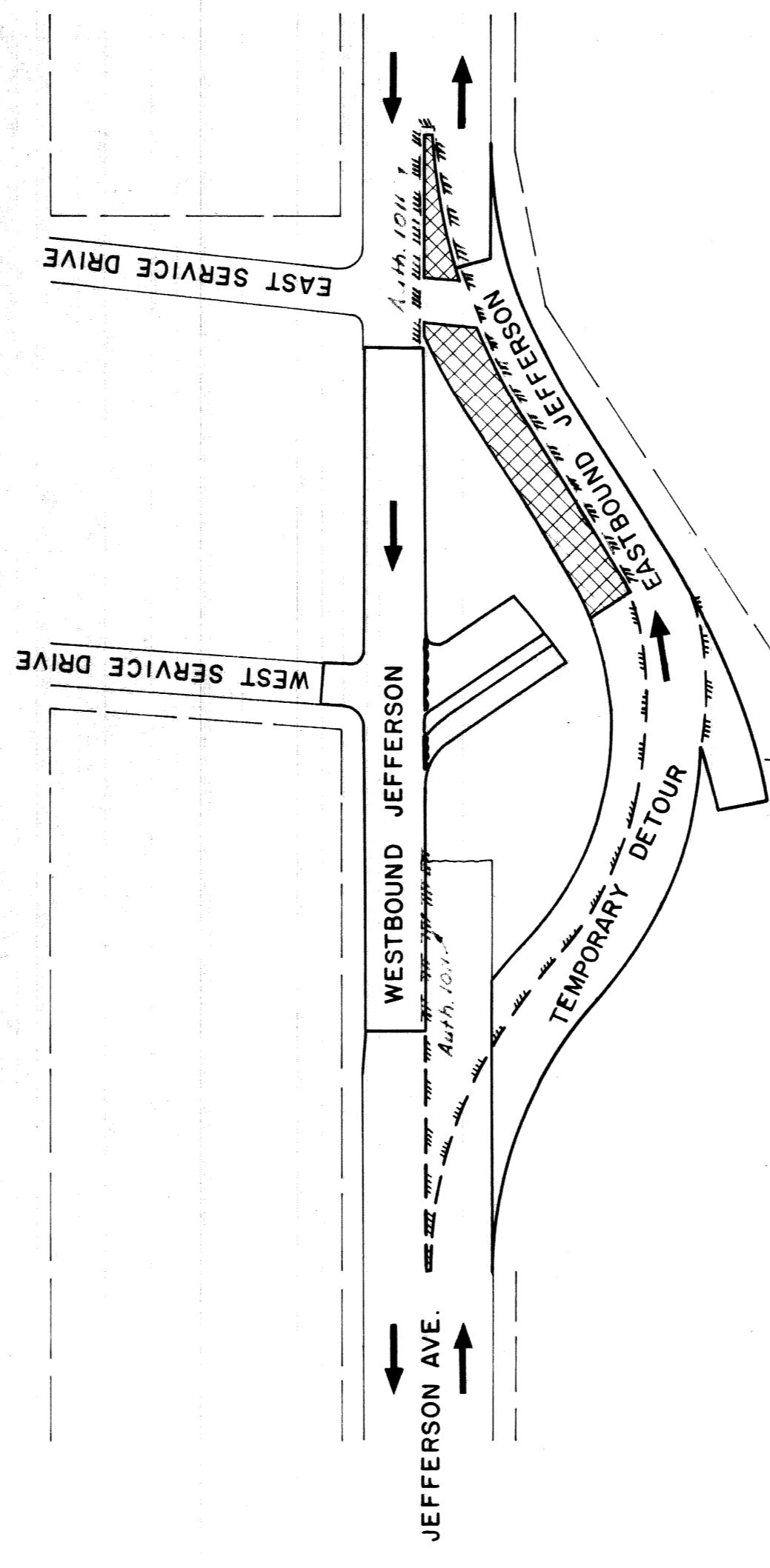
STATE	MICH.	PROJ. NO.	175-10214	SHEET NO.	8	TOTAL SHEETS	8
ROUTE	23711	COUNTY	Wayne	SHEET NO.	8	TOTAL SHEETS	8
STATE	MICH.	PROJ. NO.	175-10214	SHEET NO.	8	TOTAL SHEETS	8
ROUTE	23711	COUNTY	Wayne	SHEET NO.	8	TOTAL SHEETS	8



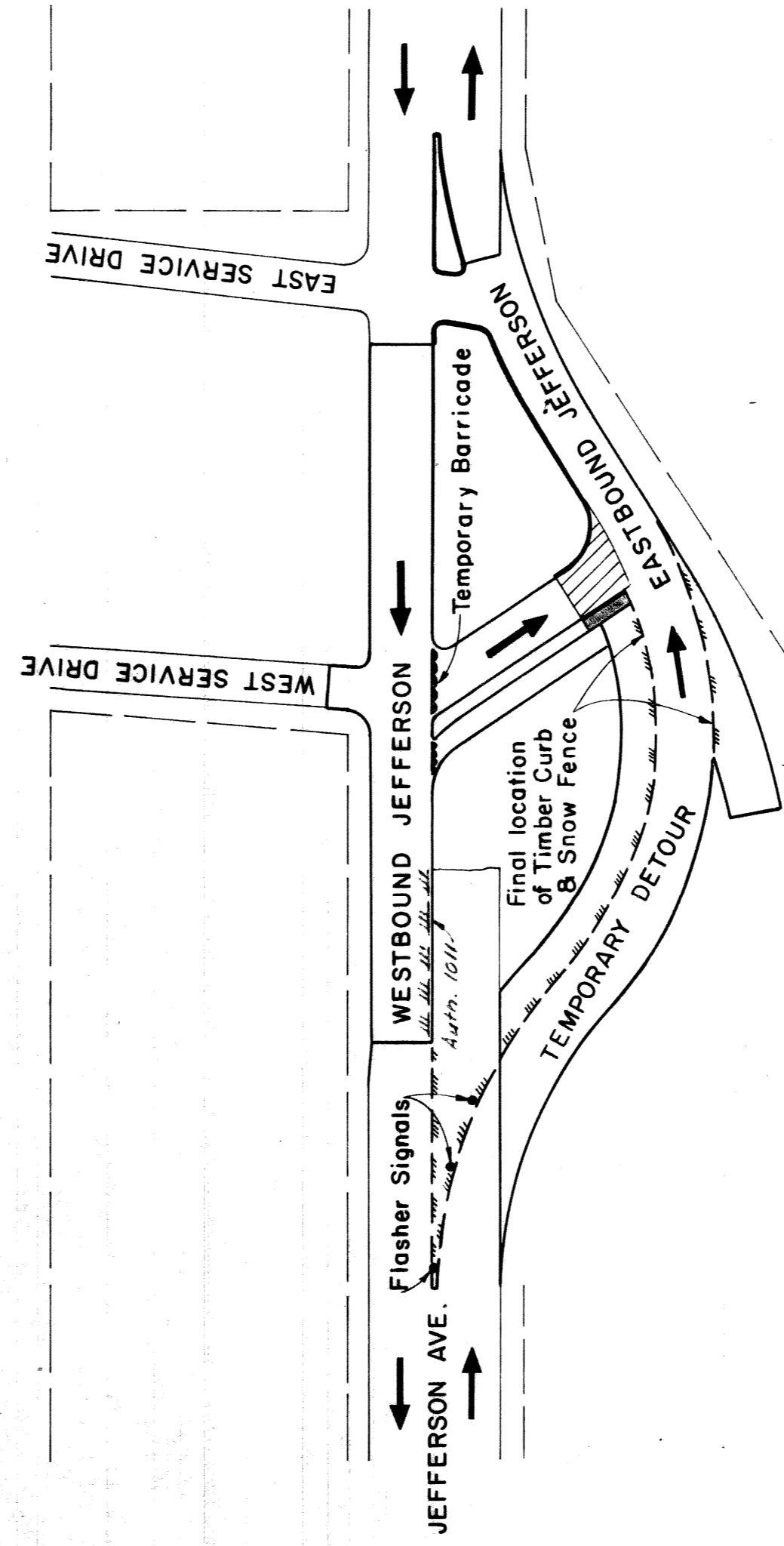
**STAGE I**



**STAGE II**



**STAGE III**



**STAGE IV**

- LEGEND**
- Timber Curb and Snow Fence
  - Barricade
  - Guard Rail
  - Bituminous Concrete over 9" Conc. Base (Reinf)
  - Temporary 8" Conc. Pavement (Non Reinf)
  - 9" Uniform Conc. Pavement (Reinf)
  - 4" Concrete Divider
  - Curb Construction
  - Pavement Removal

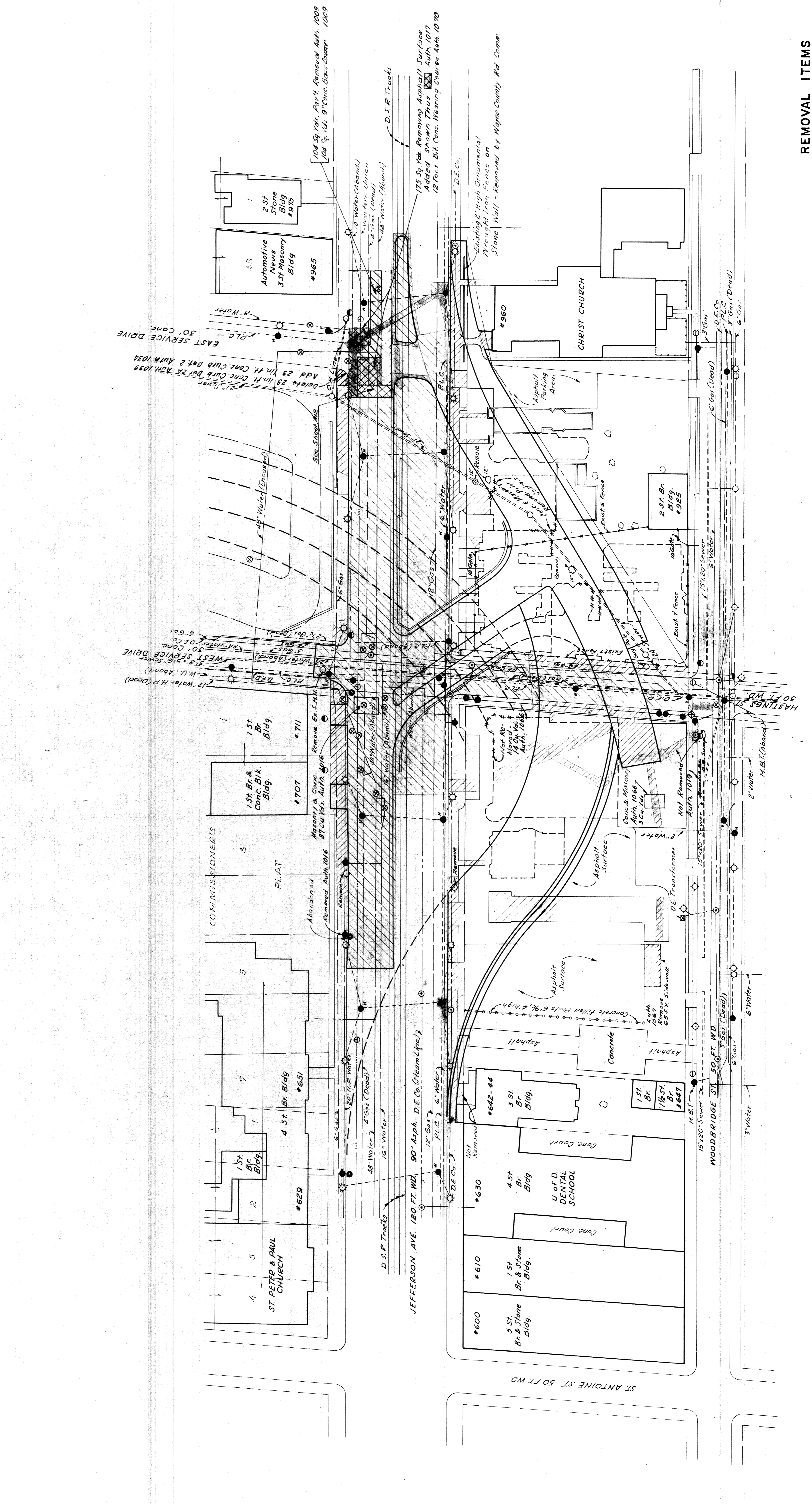
**CONSTRUCTION SEQUENCE AND SURFACING PLAN**

McLENN, N.  
GRIFFIN, R.L.  
DALLABOND, F.A.  
KAWAS, N.  
L. S. Fisher  
R. K. Hill  
7-60  
6-60  
7-60  
7-60  
9-60



STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	1-15-1029		
COUNTY	Wayne	CITY	
ROUTE	82111	PROJECT NO.	17-10-1010
DIST. NO.	4	SHEET NO.	9
STATE	MICH.	PROJ. NO.	
COUNTY	Wayne	CITY	
ROUTE		PROJECT NO.	
DIST. NO.		SHEET NO.	

Removing Trees 6" to 12" Dia. 2 each  
 Removing Trees 15" to 24" Dia. 1 each  
 Removing Catch Basin Sumps 0-4  
 Removing Manholes 1 each  
 Removing D.S.R. Poles 2 each  
 187 Auth. 1005, 1015  
 Replacing Pavement shown  
 39039 Yds. Pavement Replacement  
 0.33 in. H. Conc. Curb Detail 24  
 Auth. 1035  
 Replacing Sidewalk shown  
 14238 sq. ft. 4" Conc. Sidewalk  
 2009 Auth. 1005, 1067  
 20 Auth. 1039 & 1005  
 23 in. H. Conc. Curb Det 2 Auth. 1034 Add'd  
 Remove Debris from basement areas  
 within the limits of proposed sidewalk  
 and pavement. Backfill with porous  
 material Grade A.  
 1444 cu. yds. Porous Material/Grade A  
 5803 cu. yds. Removing Masonry and  
 Concrete  
 Auth. 1066, 1016  
 4,393 sq. yds. Auth. 1074  
 Proposed Pavement shown  
 Existing Foundation  
 Existing Basement  
 Existing Concrete Slab  
 Removing Curb shown  
 488 in. H. Removing Curb  
 378 Auth. 1018  
 Removing D.S.R. Track Strip  
 7086 sq. yds.  
 928 Auth. 1041  
 Proposed Sidewalk shown



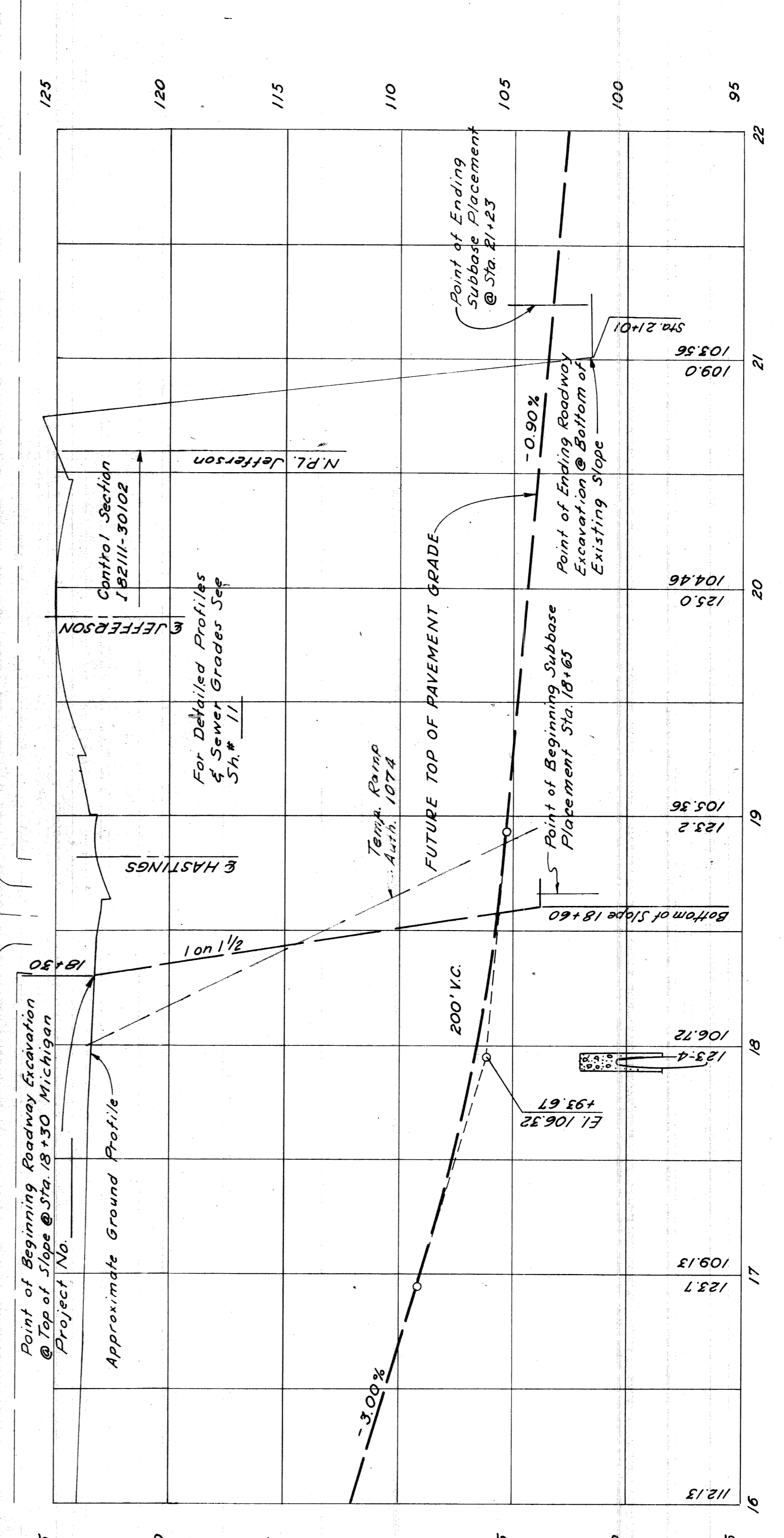
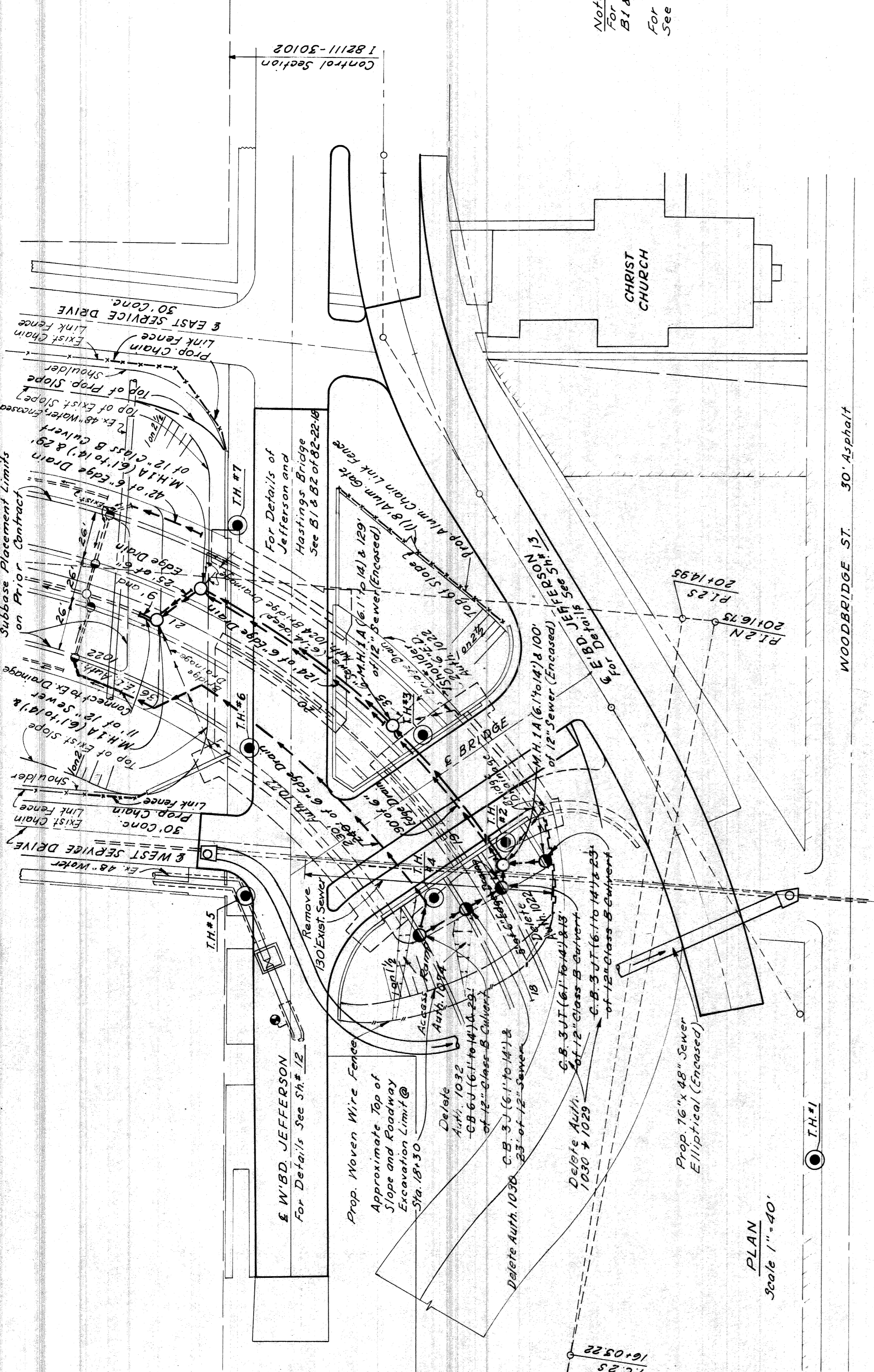
STATE	PROJECT	CITY	TOTAL SHEETS
MICH.	82771	Wayne Detroit	10
ROUTE	PROJECT	CITY	TOTAL SHEETS
18+30	82771	Wayne Detroit	10

Note:  
For Log of Borings see  
B1 & B2 of 82-22-13  
For Alignment Details  
See Sh # 6

PROFILE  
Hor. 1"=40'  
Scale: Vert. 1"=4'

EXPRESSWAY ITEMS  
STA. 18+30 to STA. 20+73

PROJECT NO. 82771 PROJECT SHEET NO. 10



Curve 2N	Curve 2S
A = 96'-47'-40"	A = 94'-17'-40"
D = 15'-00'-00"	D = 15'-00'-00"
R = 381.97'	R = 381.97'
T = 430.18'	T = 411.73'
L = 645.30'	L = 628.63'
E = 198.32'	E = 179.66'
PC = 15+86.55	PC = 16+03.22
PT = 20+16.23	PT = 20+14.95
PI = 22+31.85	PI = 22+31.85

Superelevation: 0.05', per ft. max.

Fencing (This Sheet)  
Aluminum Chain Link Fence (48" High). 113 Lin. Ft. 1047  
Chain Link Fence (48" High). 125 Lin. Ft. 1046  
8" Aluminum Gates for 48" Aluminum Chain Link Fence. 1 Each  
Woven Wire Fence. 0 Lin. Ft. 1046

MELAN, N.  
GIBBON, R.  
GIBBON, R.  
D. E. JAMES  
R. H. HALL

APPROVED FOR CONSTRUCTION  
DATE: 10/10/50  
BY: [Signature]

9-60  
6-60  
7-60  
9-60  
9-60

MELAN, N.  
CALABIANO, F.A.  
GIFLIN, R.T.  
C. E. Jones  
R. R. Hicks

OPERATION	BY	DATE
SURVEY		
PLAN CHECKED		
PLAN PLOTTED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

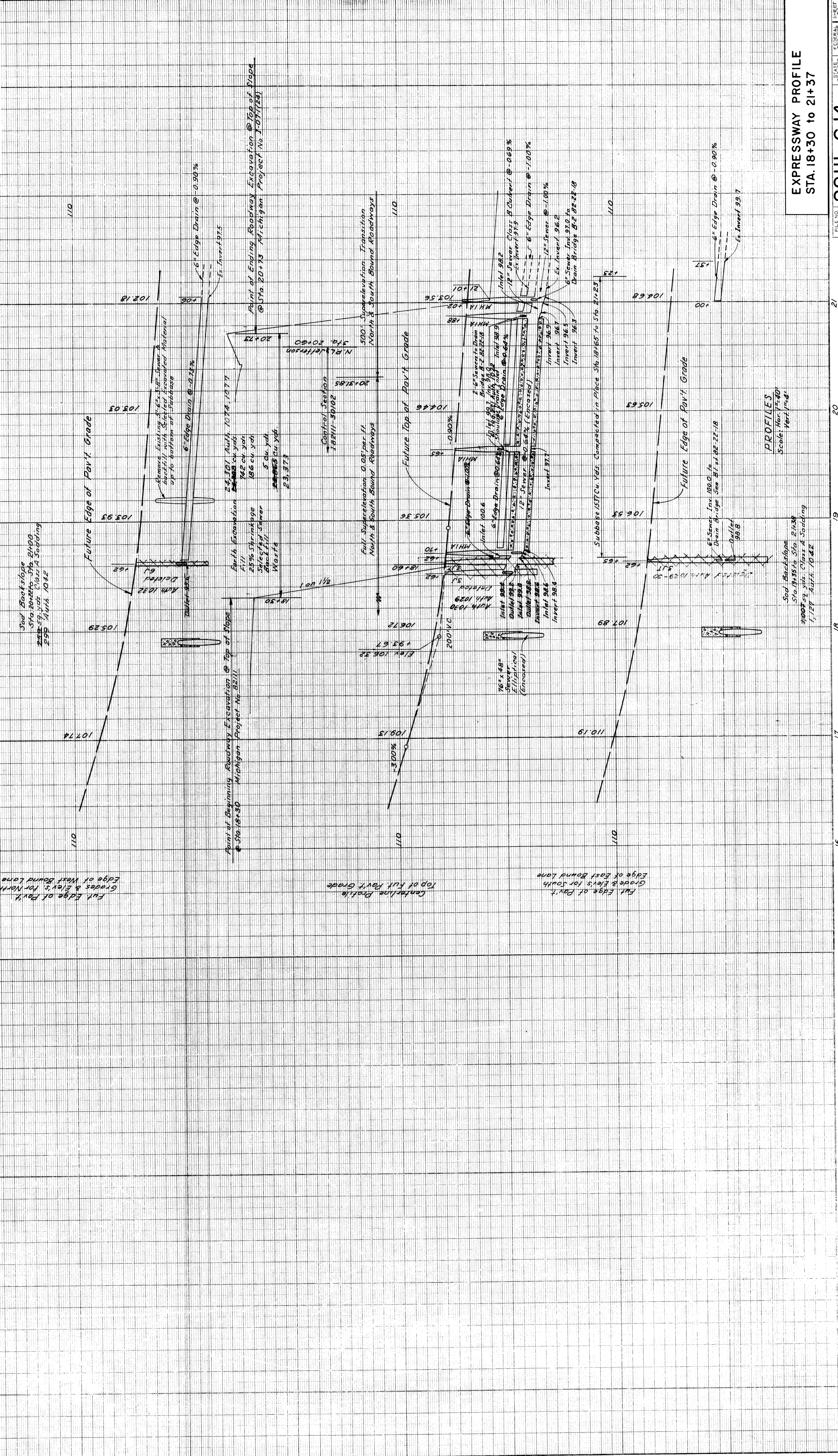
PLANS PREPARED BY  
OPERATION  
DATE

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SQUAD		

STATE	PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
MICH	82111	1-12-10/80	11

ROUTE	COUNTY	PROJECT	SHEET NO.	TOTAL SHEETS
82111	Wayne	Detroit	11	11



EXPRESSWAY PROFILE  
STA. 18+30 TO 21+37

82111-C14  
FILE NO. 82111-17  
SHEET 11 OF 11

PROFILES  
Scale: Hor. 1"=40'  
Vert. 1"=4'

Future Edge of Pav't  
Grades & Elev's for North  
Edge of West Bound Lane

Centerline Profile  
Top of Rut Pav't Grade

Future Edge of Pav't  
Grades & Elev's for South  
Edge of East Bound Lane

Sod Backslope  
Sta. 18+54 to 21+30  
25% Slope Class A Sodding  
1/127 Auth. 10-22

Point of Beginning Roadway Excavation @ Top of Slope  
@ Sta. 18+30 Michigan Project No. 82111

Point of Ending Roadway Excavation @ Top of Slope  
@ Sta. 20+13 Michigan Project No. 1-07-1124

Control Station  
18911-34102  
20+31.95

Full Super-elevation 0.03 per ft.  
North & South Bound Roadways

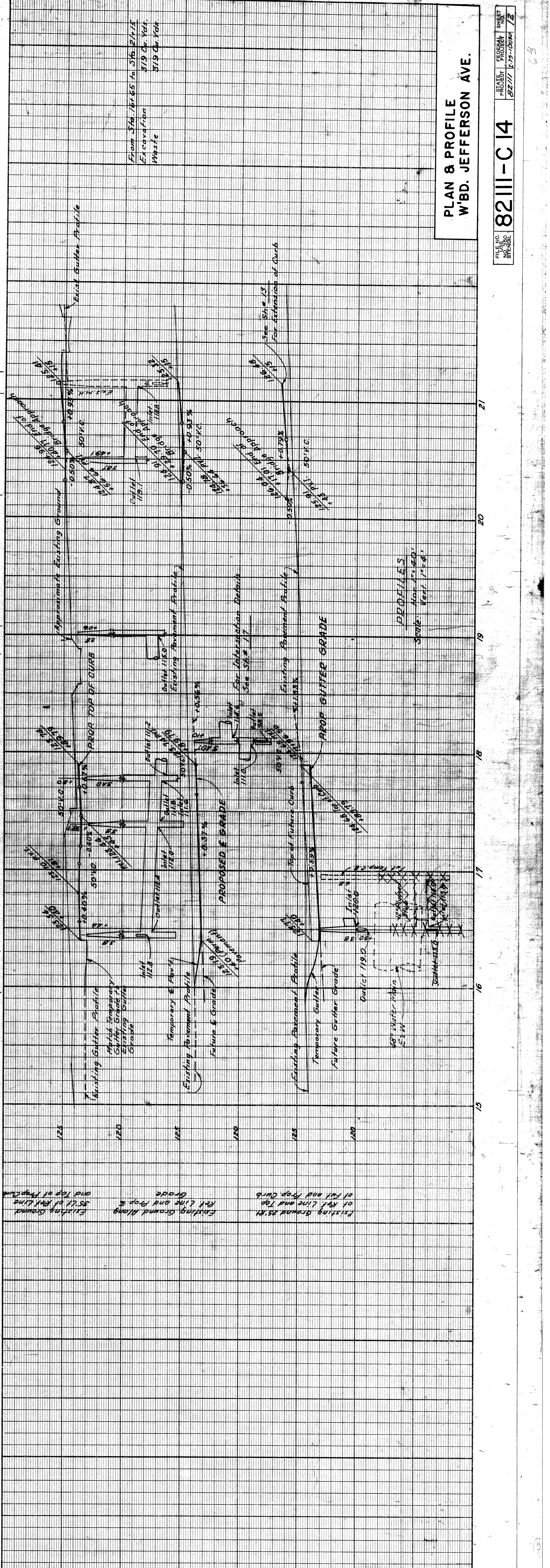
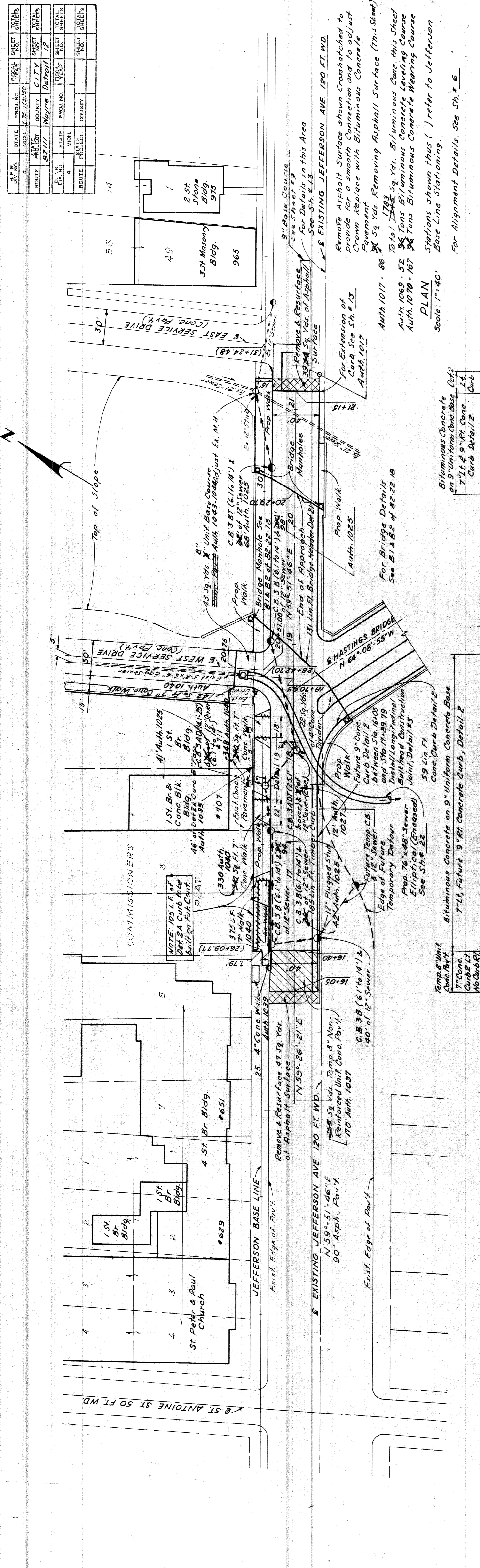
Subbase 157 Cu. Yds. Completed in Place Sta. 18+65 to 5th 21+25

Sod Backslope  
Sta. 19+54 to 21+30  
25% Slope Class A Sodding  
1/127 Auth. 10-22

82111-C14

STATE	MI.	PROJ. NO.	82111
CITY	DETROIT	SHEET NO.	12
COUNTY	WAYNE	TOTAL SHEETS	12
ROUTE	JEFFERSON AVE		

PLAN 8 PROFILE  
W'BD. JEFFERSON AVE.



DATE	
BY	
OPERATION	
PRELIMINARY R.O.W. CHECKED	
FINAL DESIGN CHECKED	
FRAMED	
QUANTITIES CHECKED	
FINAL R.O.W. CHECK	
QUANTITIES CHECKED	
REVISIONS	
FOR APPROVAL	

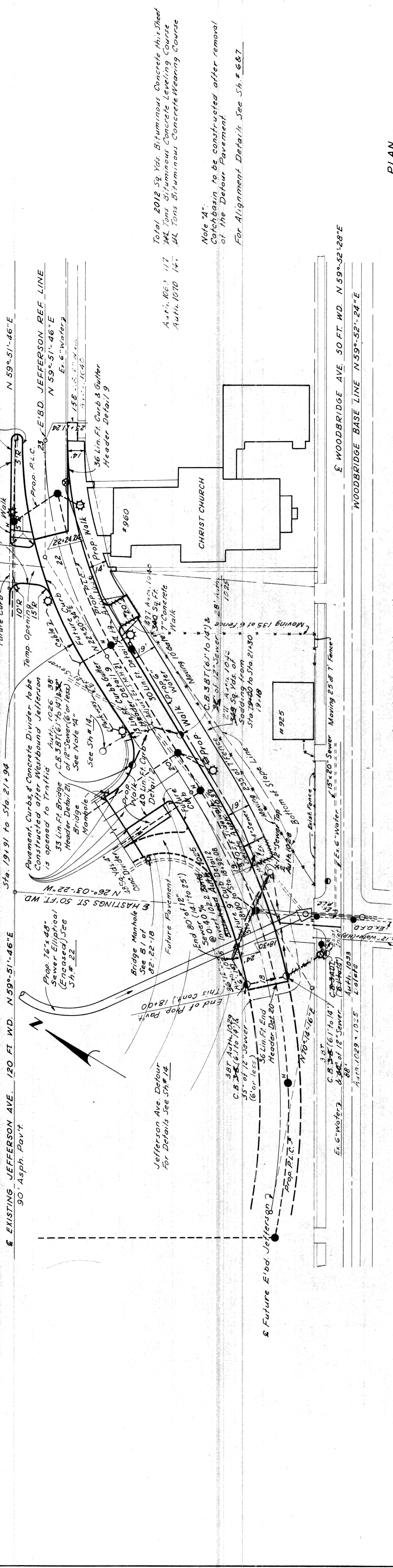
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FINAL DESIGN CHECKED  
FRAMED  
QUANTITIES CHECKED  
FINAL R.O.W. CHECK  
QUANTITIES CHECKED  
REVISIONS  
FOR APPROVAL

FILE NO. 82111-C14  
PROJECT PROGRESS SHEET  
SPRINT  
82111 12-12-10000 12

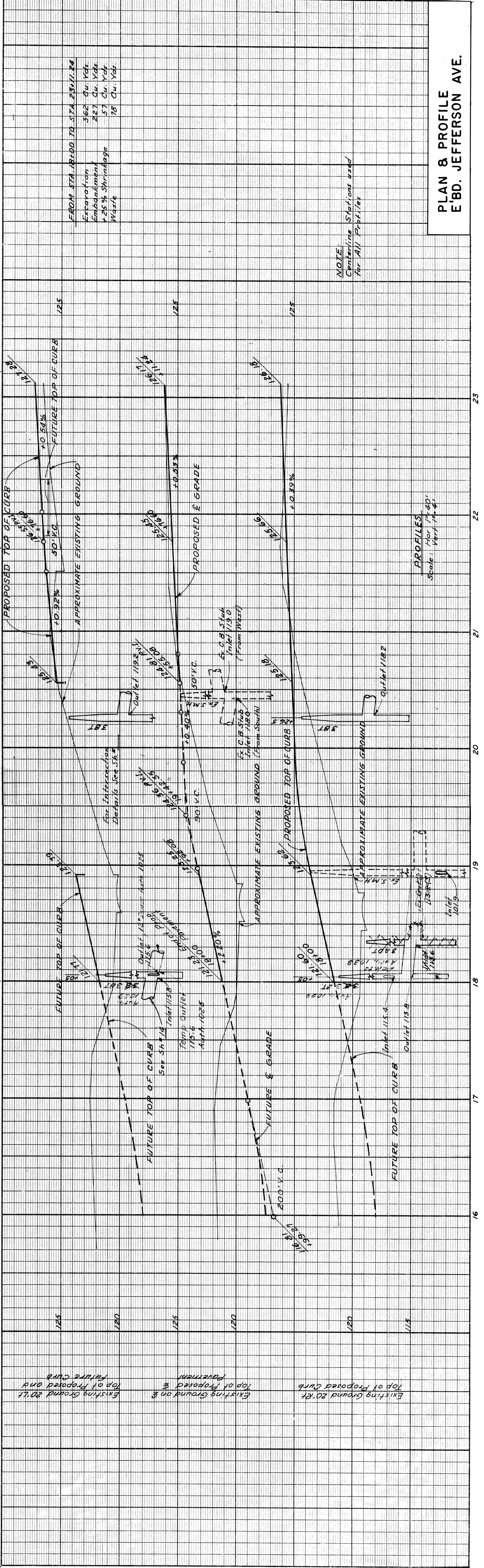
DATE	
BY	
OPERATION	
PLAN CHECKED	
PROFILE PLOTTED	
PROFILE CHECKED	
PRELIMINARY GRADE	
GRADE INSPECTION	
FEDERAL INSPECTION	

DATE  
BY  
OPERATION  
PLAN CHECKED  
PROFILE PLOTTED  
PROFILE CHECKED  
PRELIMINARY GRADE  
GRADE INSPECTION  
FEDERAL INSPECTION

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
MI	123-0000	13	13
CITY	COUNTY	ROUTE	DATE
DETROIT	WAYNE	82111	1/13/1916



PLAN  
Scale 1"=40'



PLAN & PROFILE  
E'BD. JEFFERSON AVE.

FILE NO.	REVISION	DATE	BY
82111-C14			

9-60  
4-60  
7-60  
K. H. Hinkle  
d. E. Hinkle  
KAWWANAN, CA.  
GALTABIANO, CA.  
MELLEN, N.

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PLAN CHECKED		
PLAN PLOTTED		
PROFILE PLOTTED		
PROFILE CHECKED		
REEL MOUNT GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

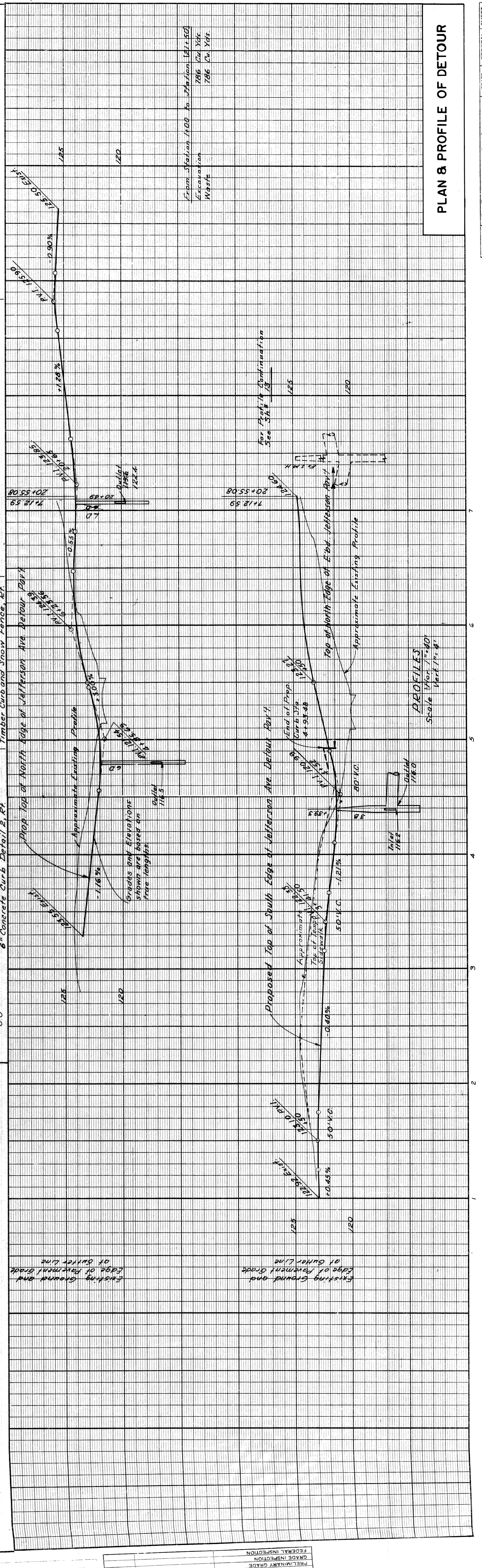
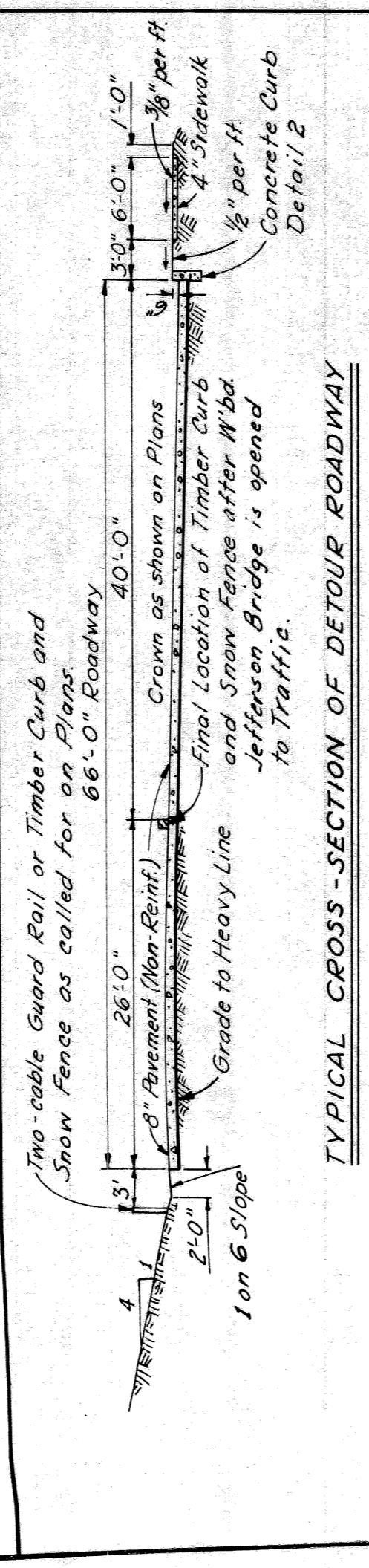
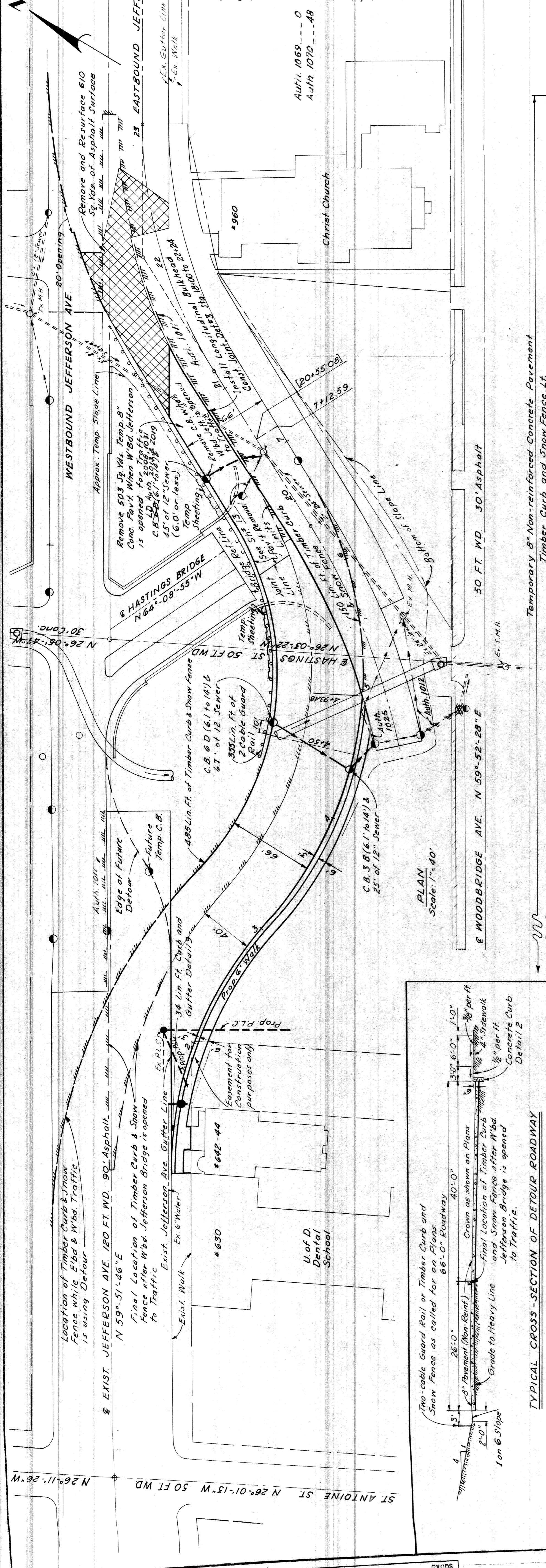
OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRADED		
QUANTITIES CHECKED		
SQUAD		

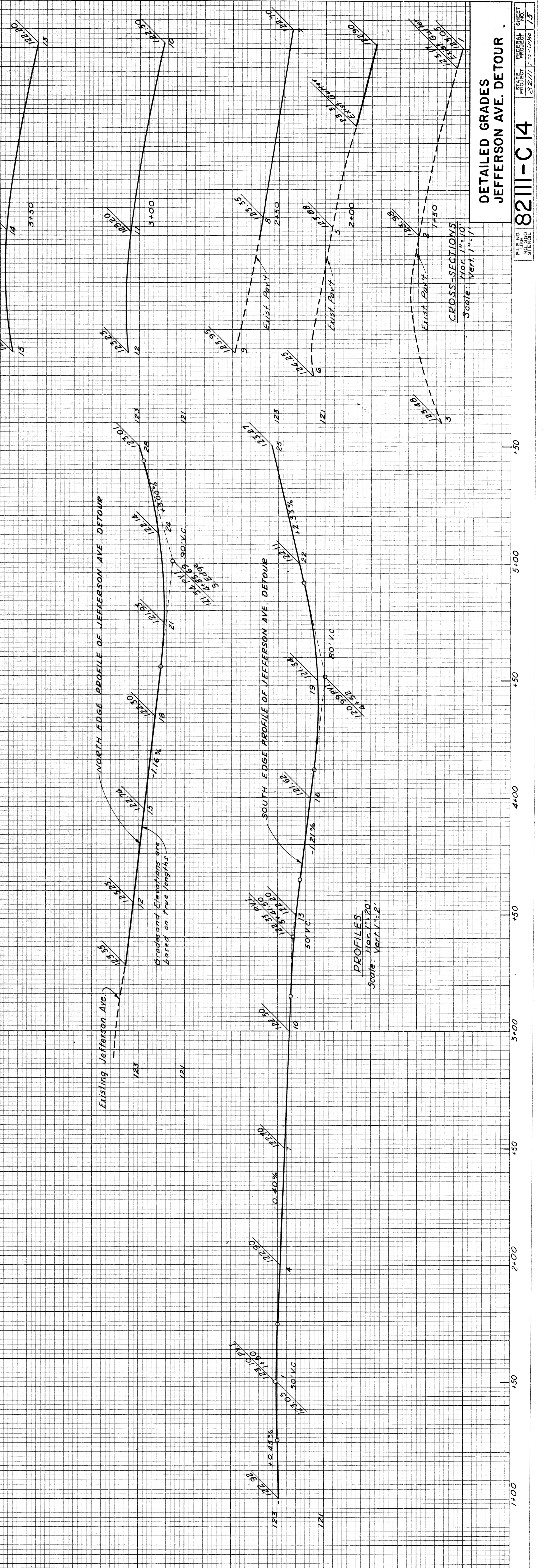
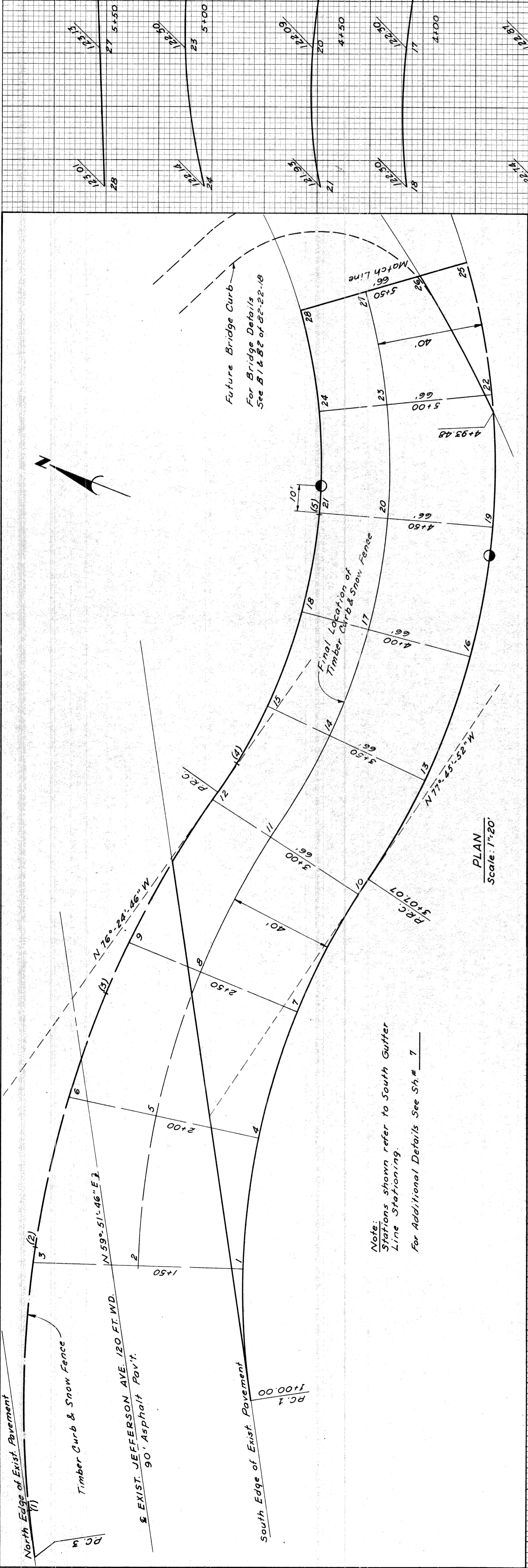
STATE	MI.	PROJ. NO.	2772-2(2)30	SHEET NO.	14
COUNTY	WAYNE	SHEET TOTALS			
CITY	DETROIT	CITY SHEETS			
ROUTE	8211	14			



**Note:**  
503 Sq. Yds. Removal of Temp. 8" Pavement  
Remove Asphalt Surface Shown Cross-hatched to provide for a smooth connection and to adjust Crown. Replace with Bituminous Concrete Pavement.  
6'0" 50 Yds. Removing Asphalt Surface  
Total 610 Sq. Yds. Bituminous Concrete  
Pavt. Sheet,  
Auth. 1089 --- 0  
Auth. 1070 --- 49  
For Alignment Details See Sh. # 1

**Note:**  
South Gutter Line Stationing is used West of Sta. 112.59 and East of Jefferson Rd Line Stationing shown thus [ ] is used for the rest of the Plan.

STATE	PROJ. NO.	PLAT	SHEET NO.
MICH.	1-75-10250		15
COUNTY	CITY		
Wayne	Dearborn		



82111-C14

FILE NO. PROJECT SHEET  
82111-75-10250 15

DETAILED GRADES  
JEFFERSON AVE. DETOUR

9-60	MEAN, N	5-60	CHERRILL, E
9-60	GALTBRAND, R	5-60	CHERRILL, E
9-60	KAWAS, N	6-60	CHERRILL, E
9-60	CHERRILL, E	7-60	CHERRILL, E
9-60	CHERRILL, E	8-60	CHERRILL, E
9-60	CHERRILL, E	9-60	CHERRILL, E
9-60	CHERRILL, E	9-60	CHERRILL, E

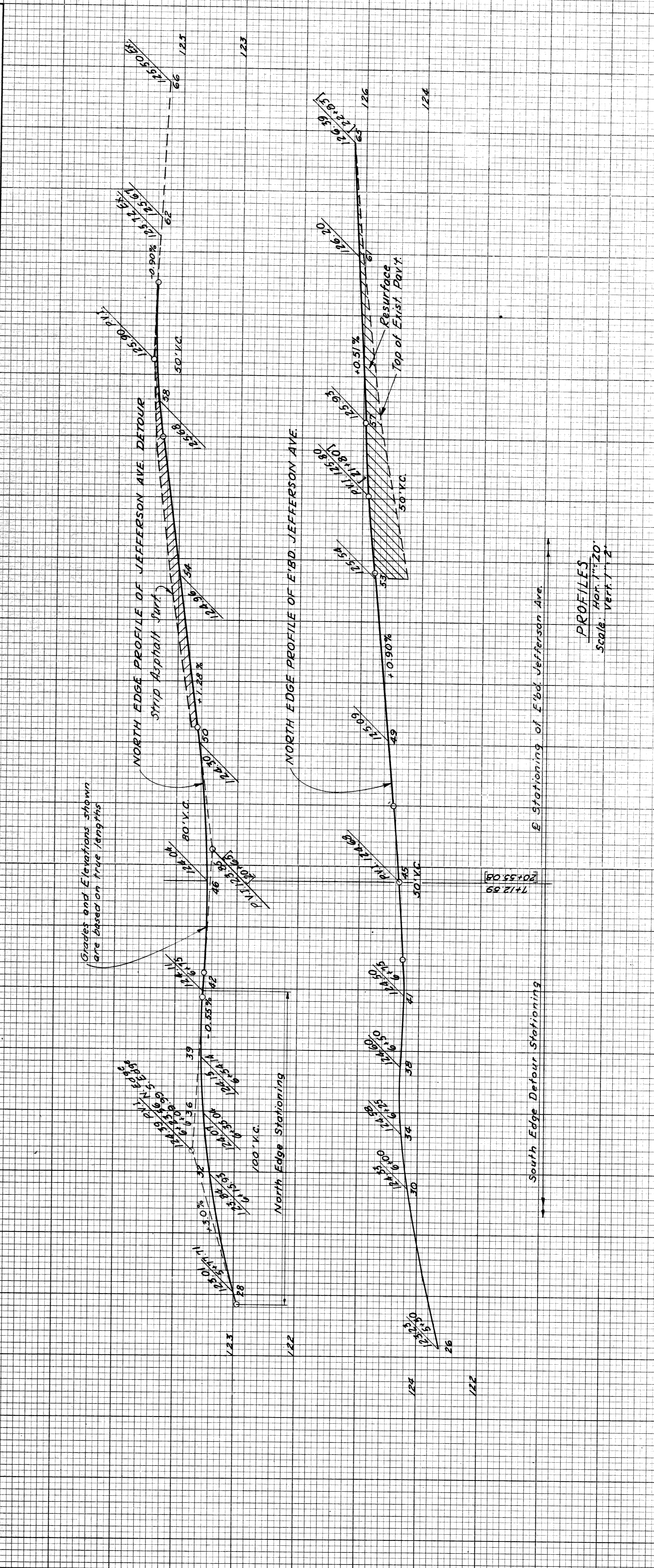
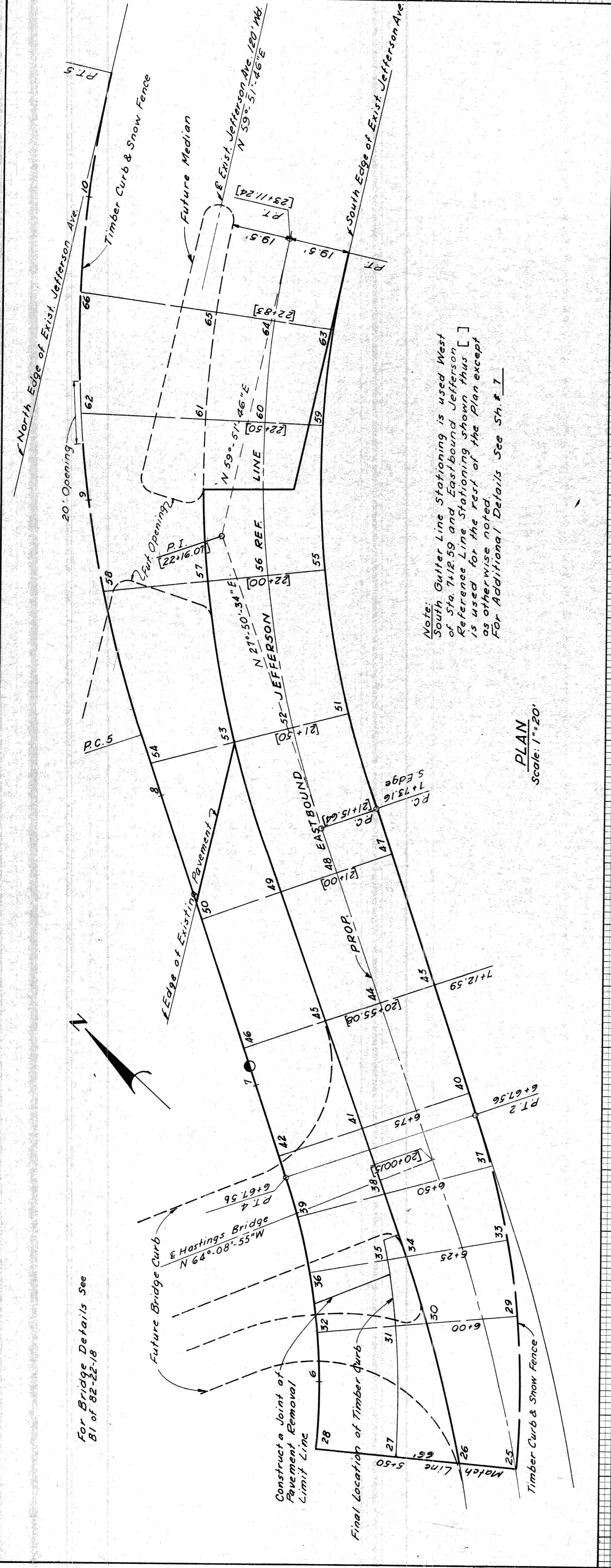
CHECKED	DATE
COMPUTED	
PLOTTED	
BY	

DESIGNED BY: [Name]

CHECKED BY: [Name]

DATE: [Date]

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MO. 4	22-1-22-18	16	16
COUNTY	CITY	SHEET NO.	TOTAL SHEETS
Wayne	Wayne	16	16
ROUTE	PROJECT	DATE	
82111	Wayne Detour		



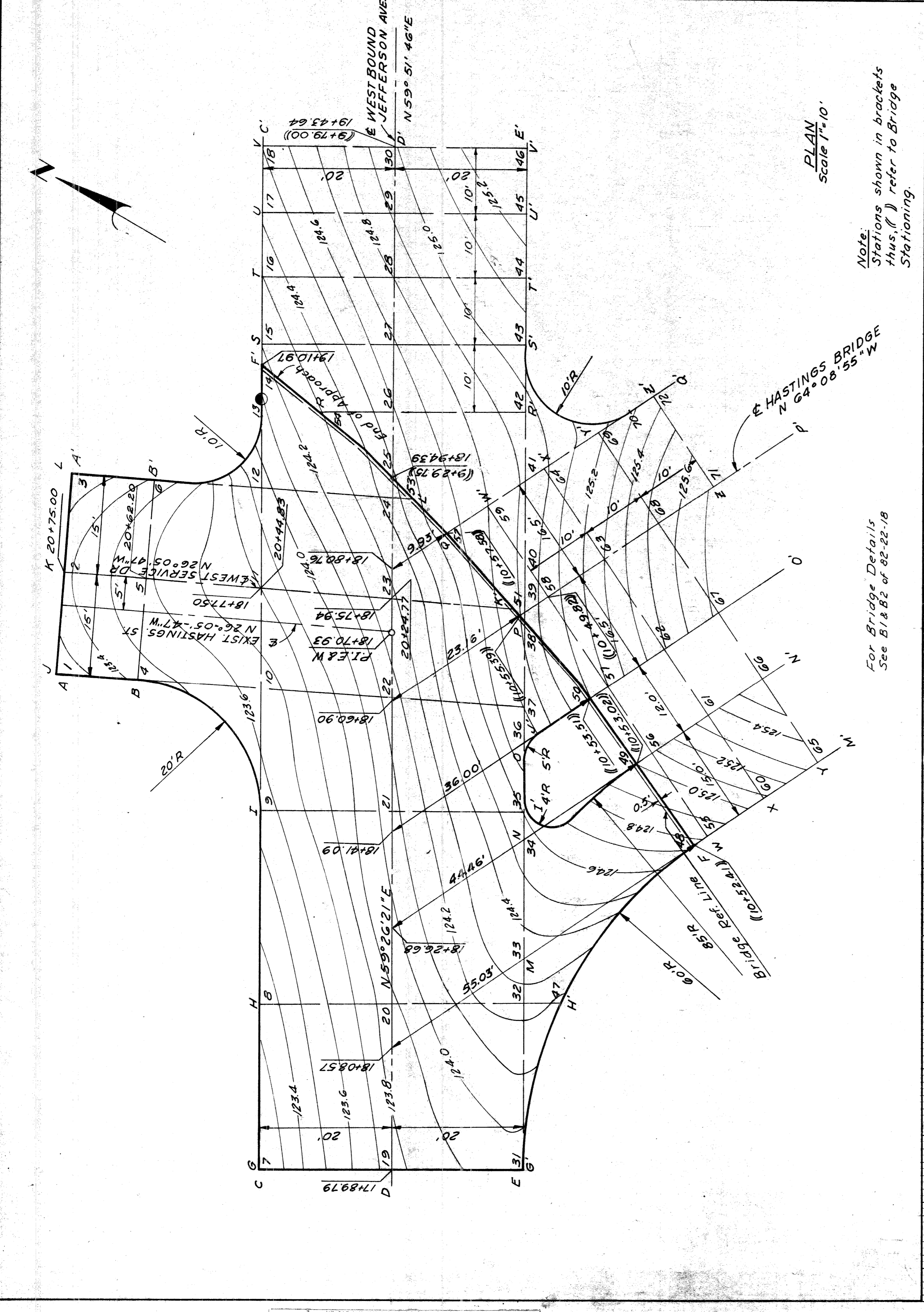
**DETAILED GRADES  
JEFFERSON AVE. DETOUR**

9.60	MELEEN, N.	DRAWN BY
5.60	GILPIN, R.L.	CHECKED BY
6.60	KAWWAB, N.	FOR APPROVAL
9.60		RECOMMENDED
9.60		CORRECT

DATE	BY	PLOTTED	CHECKED



B.C.R. NO.	STATE	PROJ. NO.	YEAR	SHEET
4	MICH.	175-10150	1950	17
ROUTE	COUNTY	CITY	SHEET	
82111	Wayne	Detroit	17	



Note:  
Stations shown in brackets  
thus, ( ) refer to Bridge  
Stationing.

For Bridge Details  
See B1882 of 82-22-18

**DETAILED GRADES  
W'BD. JEFFERSON & HASTINGS**

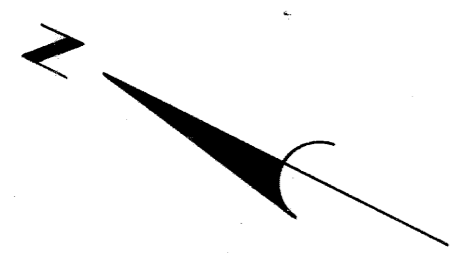
9-60	MELAN, R.L.
5-60	GILFIN, R.
6-60	CARRIBANO, R.
6-60	CHEKVA, E.
9-60	A. E. [unclear]
9-60	R. R. [unclear]

DATE	BY

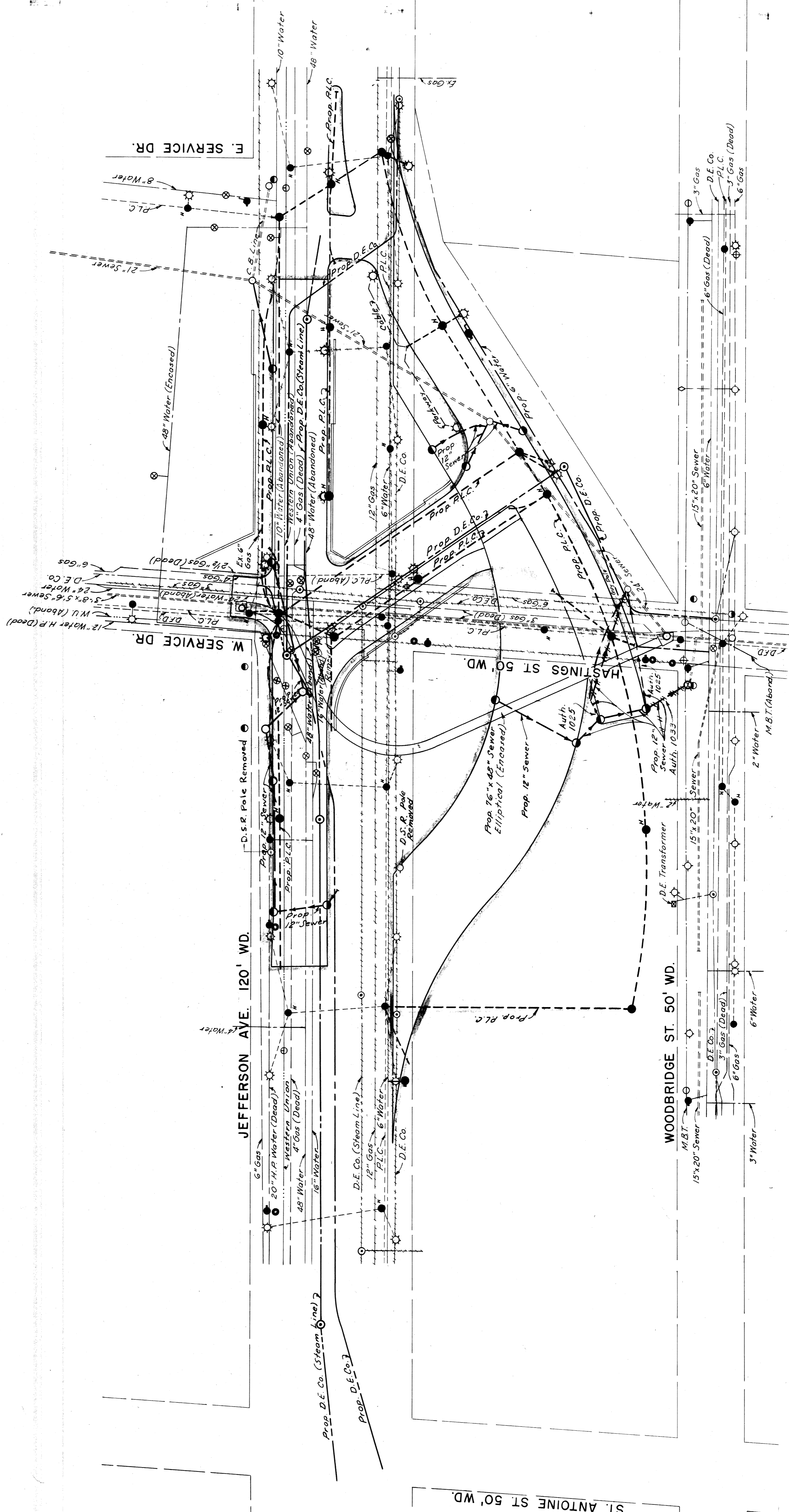
PLOTTED	BY
COMPUTED	
CHECKED	

**UTILITY LEGEND**

- UNDERGROUND**
- ===== SEWER & MANHOLE
  - ===== SEWER INLET OR CATCHBASIN
  - ===== WATER MAIN & GATE WELL & VALVE
  - PLC CABLE & BOX
  - PLC CABLE & MANHOLE
  - DETROIT EDISON CO. CABLE & MANHOLE
  - M.B.T. CABLE & MANHOLE
  - TELEGRAPH CABLE & MANHOLE
  - GAS MAIN & VALVE OR DRIP
  - D.F.D. CABLE & MANHOLE
  - INDICATES UTILITY ABANDONED UNDER THIS CONTRACT
- ABOVE GROUND**
- D.S.R. POLE
  - M.B.T. POLE
  - ⊙ FIRE HYDRANT
  - ⊙ D.E. POLE
  - ⊙ PLC LIGHTPOLE
  - ⊙ POLICE BOX



STATE	PROJ. NO.	SHEET	TOTAL
MICH.	1-25-10000	NO.	SHEETS
ROUTE	CITY	SHEET	SHEETS
4	Wayne Detroit	19	19



GENERAL UTILITY DRAWING

82111-C14

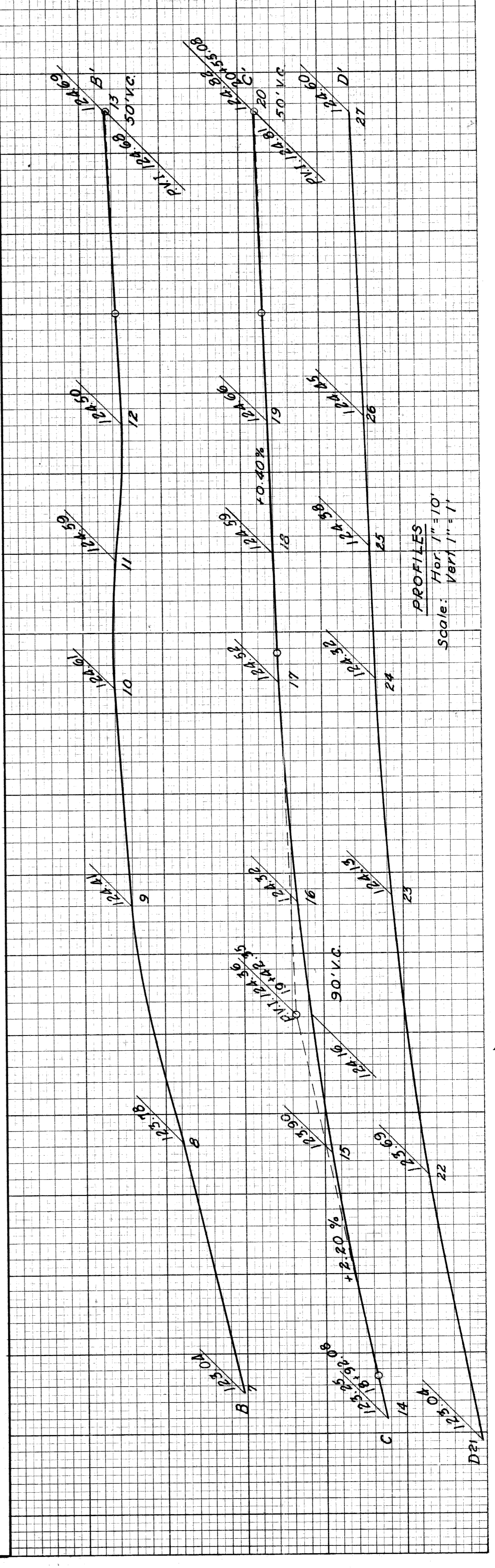
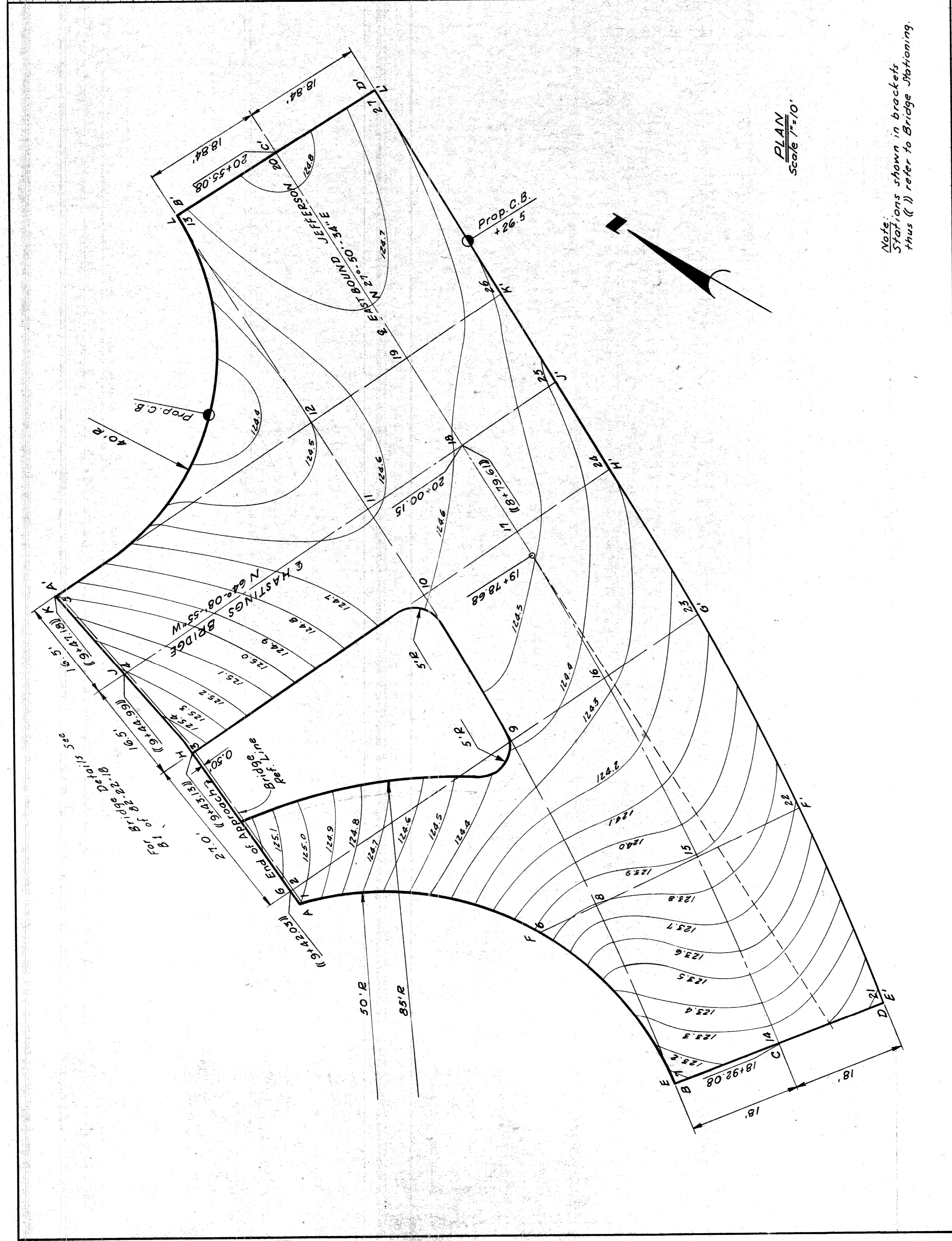
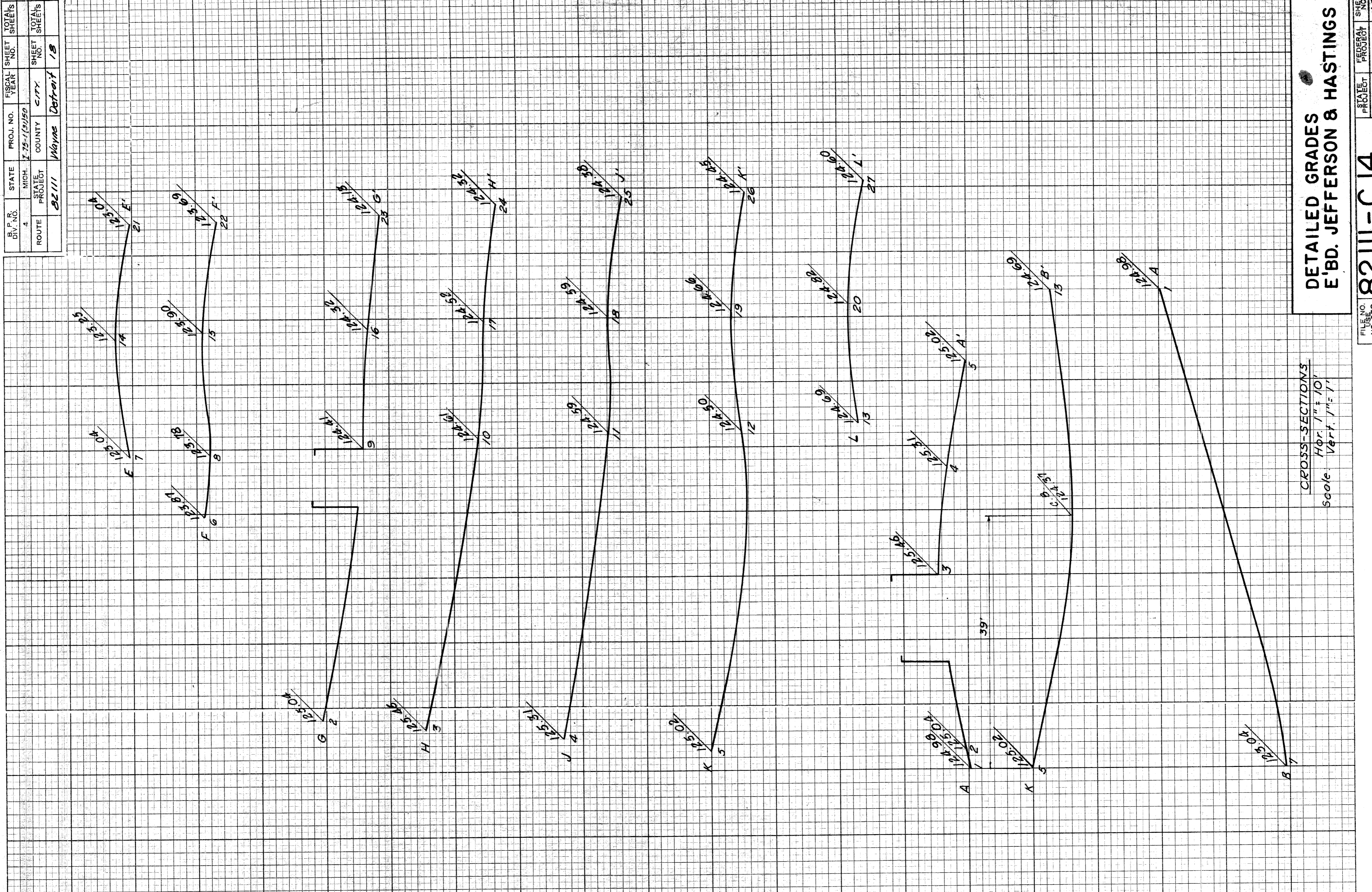
MELVIN N. GLENN, P.E.  
 CHEVANA, ILL.  
 9-60  
 8-60  
 7-60  
 6-60  
 5-60  
 4-60

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	7-75-10029	15	15
COUNTY	WAYNE		
ROUTE	82111	Wayne	Detroit 15

**DETAILED GRADES**  
**E. BD. JEFFERSON & HASTINGS**

82111-C14  
 PREPARED BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 DATE: 1/25/1959

CROSS-SECTIONS  
 Hor. 1" = 10'  
 Scale Vert. 1" = 1'



Notes:  
 Stations shown in brackets  
 thus ( ) refer to Bridge Stationing.

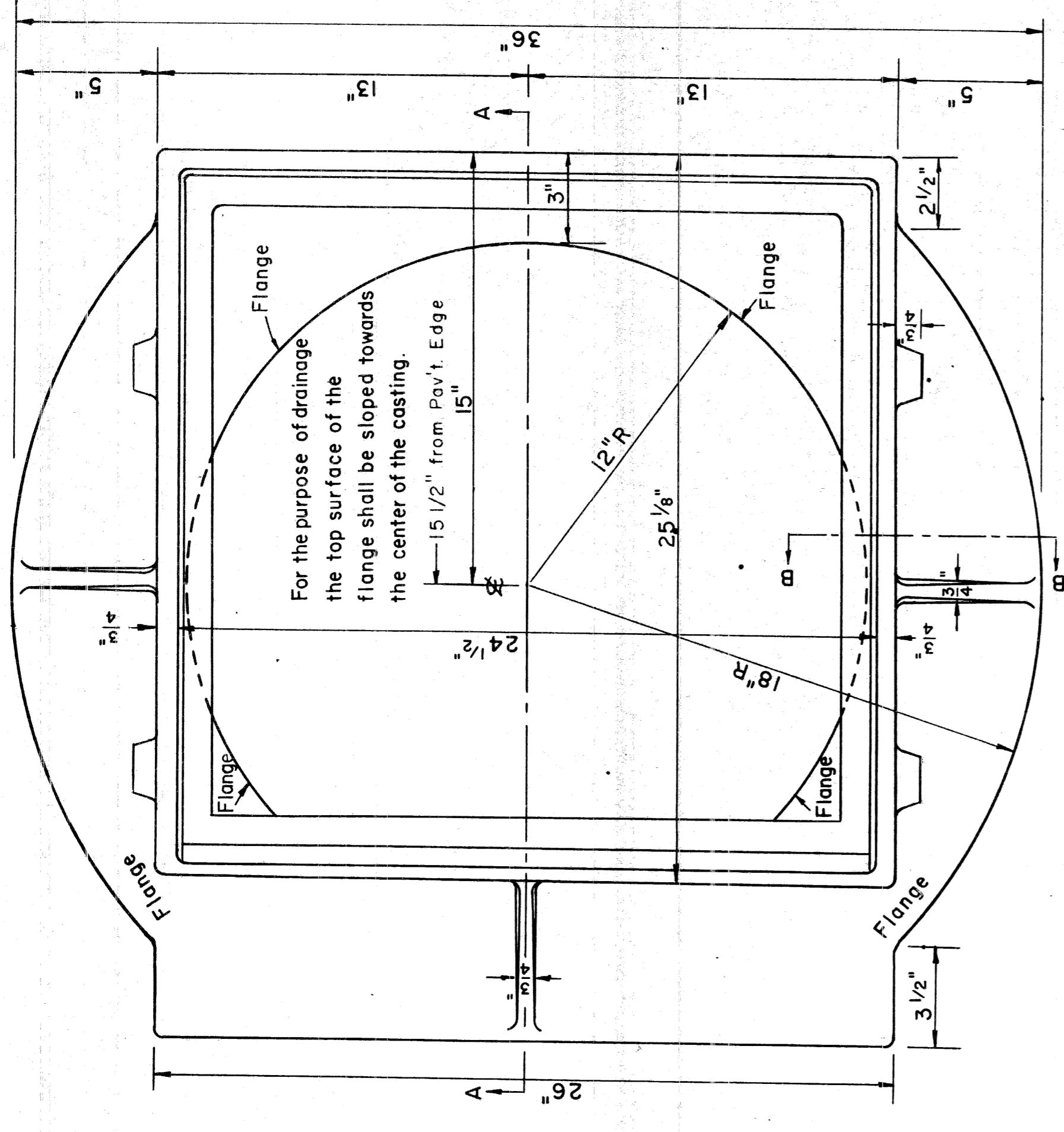
PLAN  
 Scale 1" = 10'

PROFILES  
 Hor. 1" = 10'  
 Scale Vert. 1" = 1'

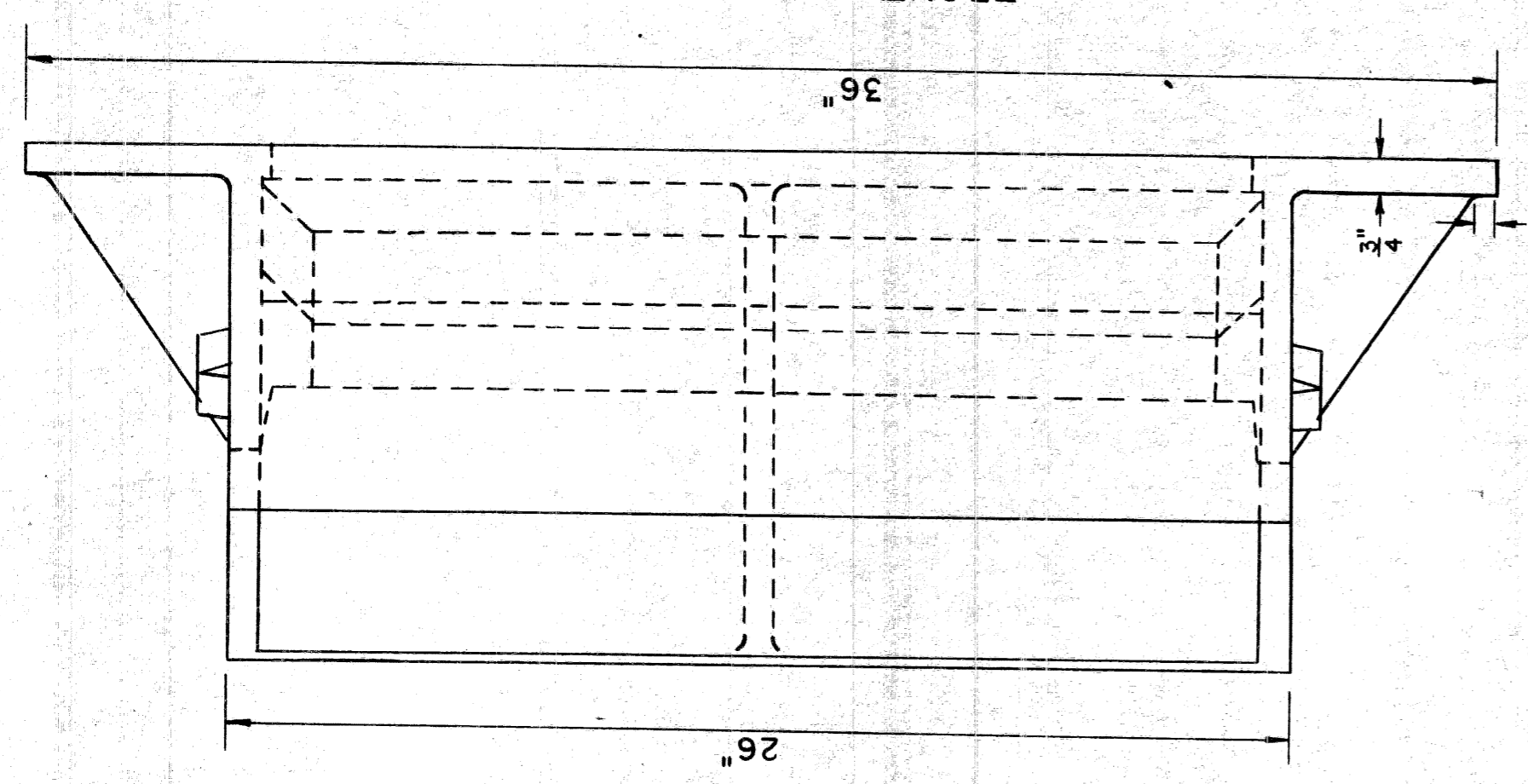
9-60	MELEAN N.	SOLID LEADER
5-60	CHRISTINA TR.	DRAWN BY
5-60	CAULFIELD F.A.	CHECKED BY
5-60	KAWAS N.	DESIGNED BY
7-60	A. E. Lippert	RECOMMENDED
9-60	H. R. Harris	FOR APPROVAL

PLANS PREPARED BY  
 J. W. HARRIS  
 CIVIL ENGINEERS OFFICE  
 1000 W. WABASH AVE.  
 DETROIT, MICH.

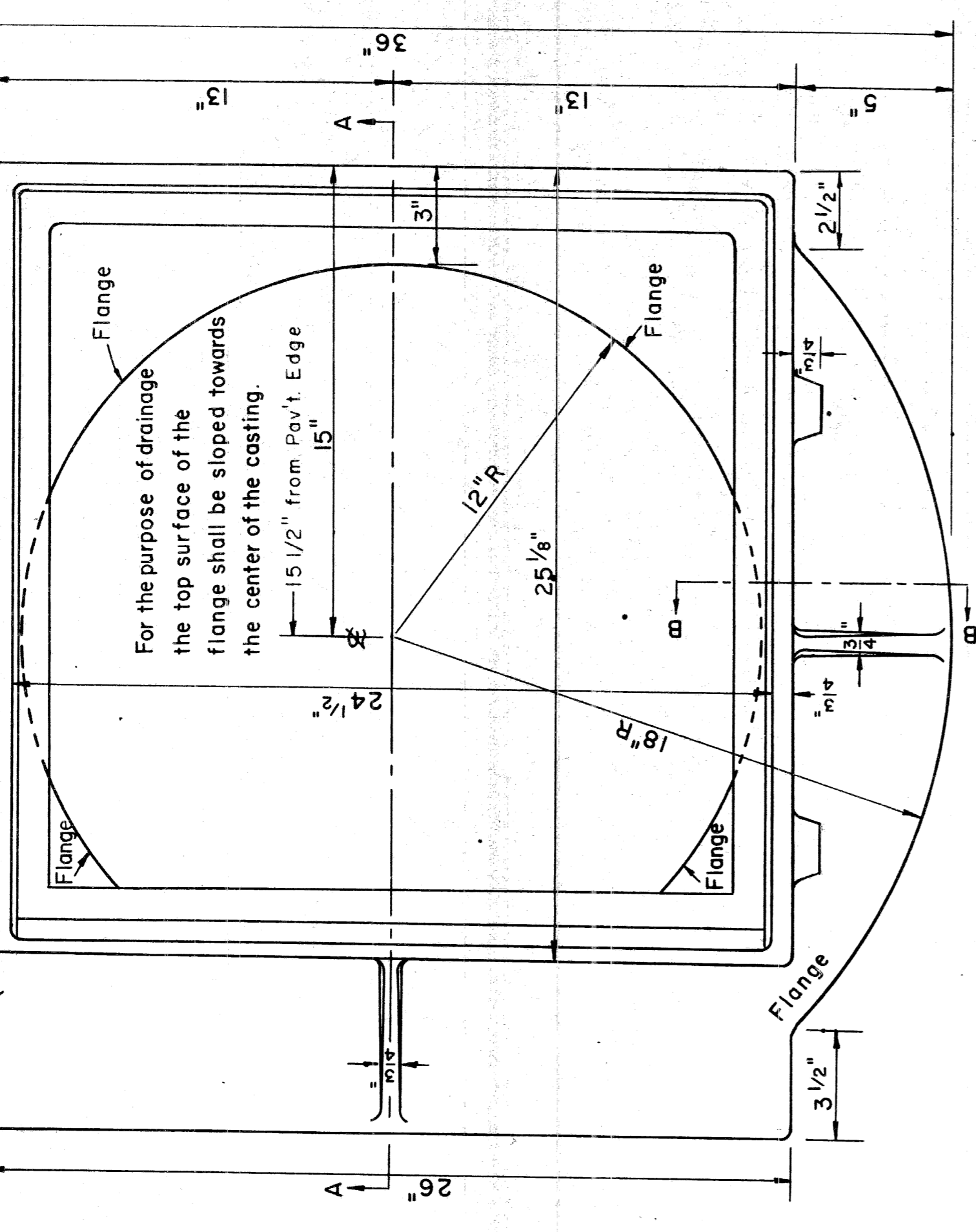
PROJECT NO.	72-1030	SHEET NO.	20
CITY	Wayne	DIVISION	STREETS
COUNTY	Detroit	PROJECT	STREETS
DATE	1922	DESIGNED BY	W. J. HARRIS
STATE	Michigan	CHECKED BY	W. J. HARRIS
CITY	Detroit	DATE	1922



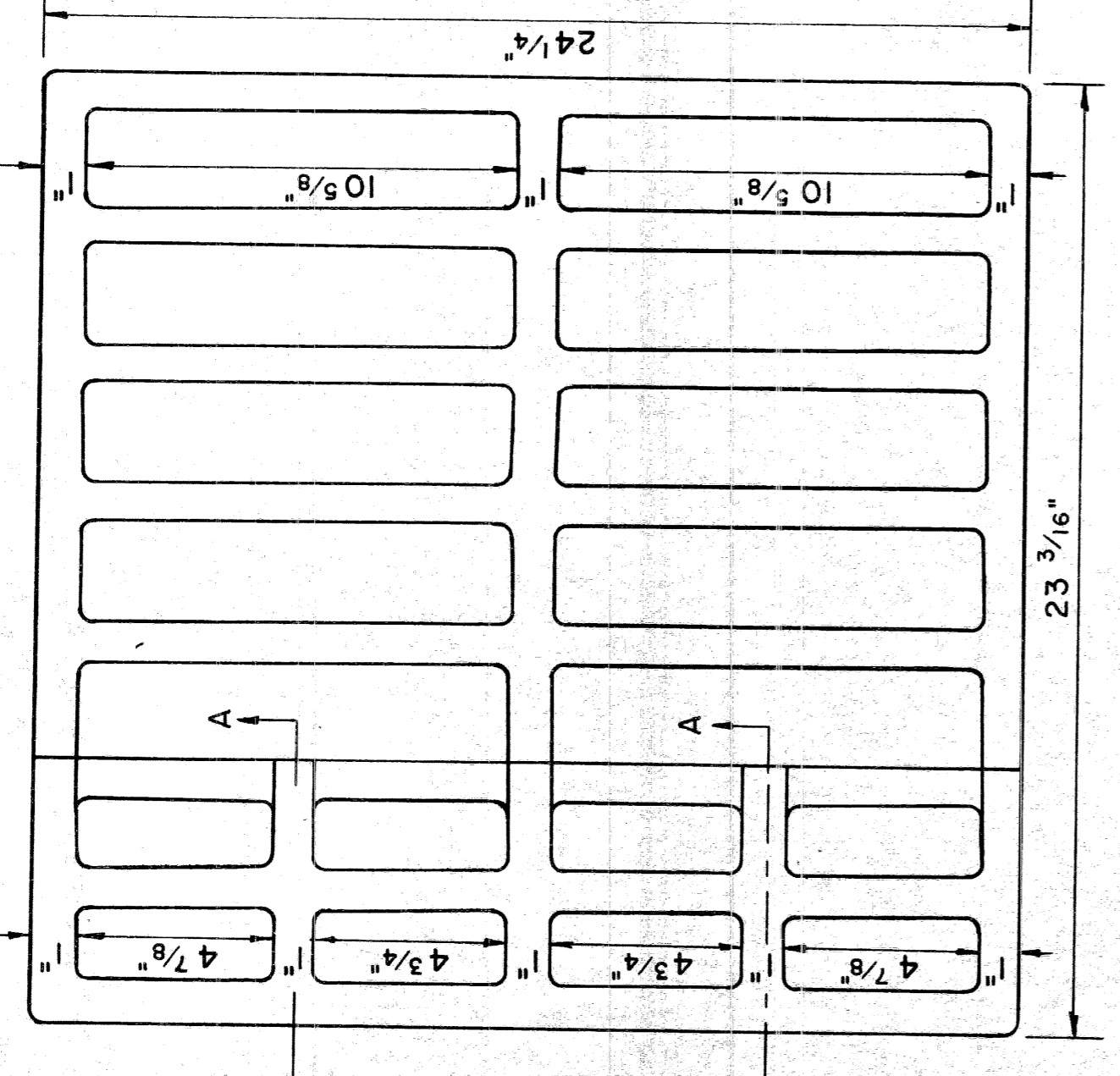
PLAN VIEW



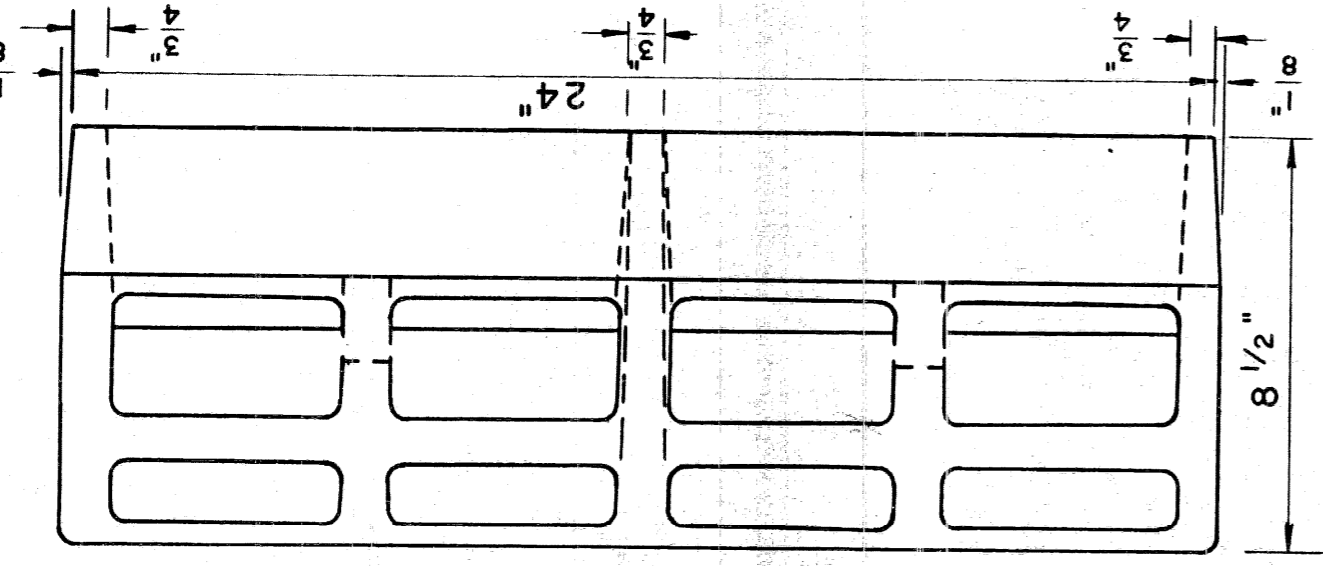
FRONT ELEVATION



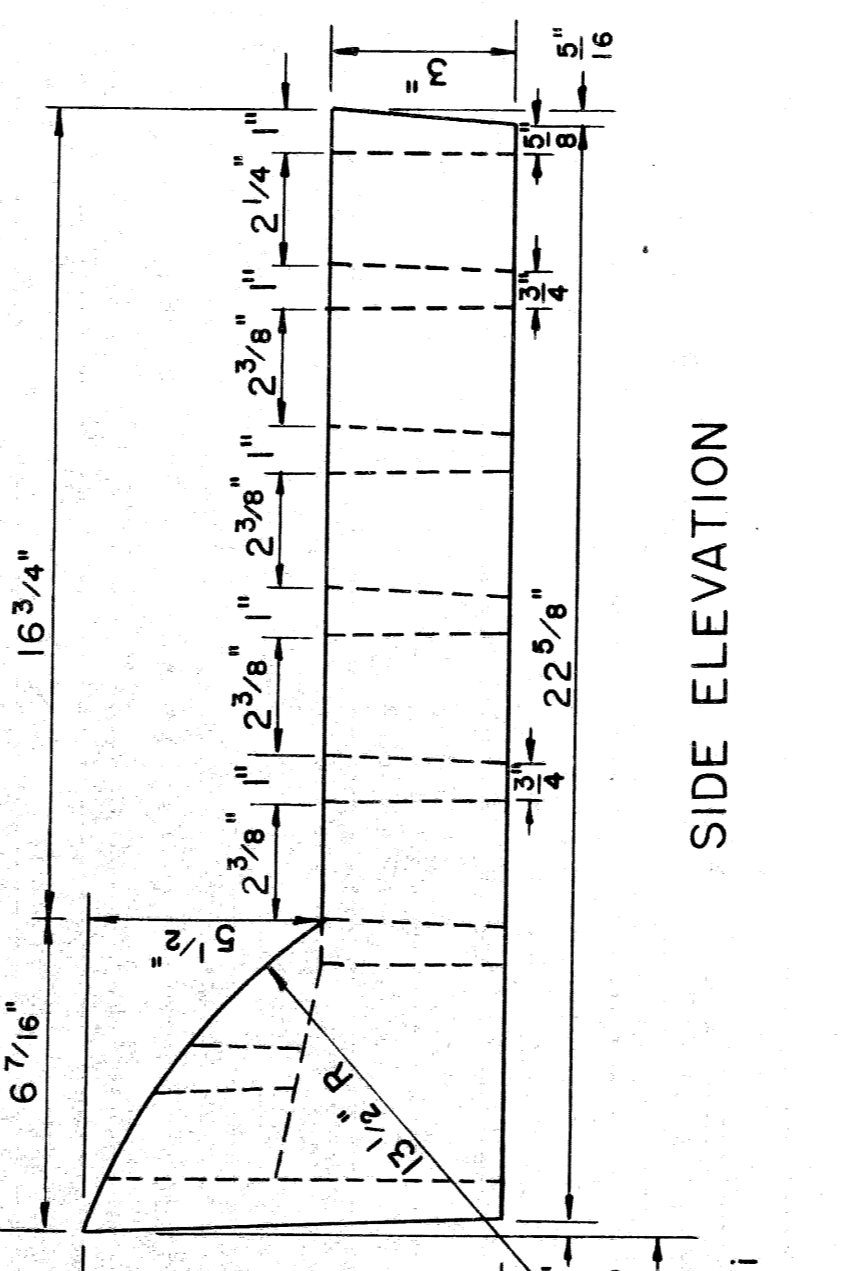
FRONT ELEVATION



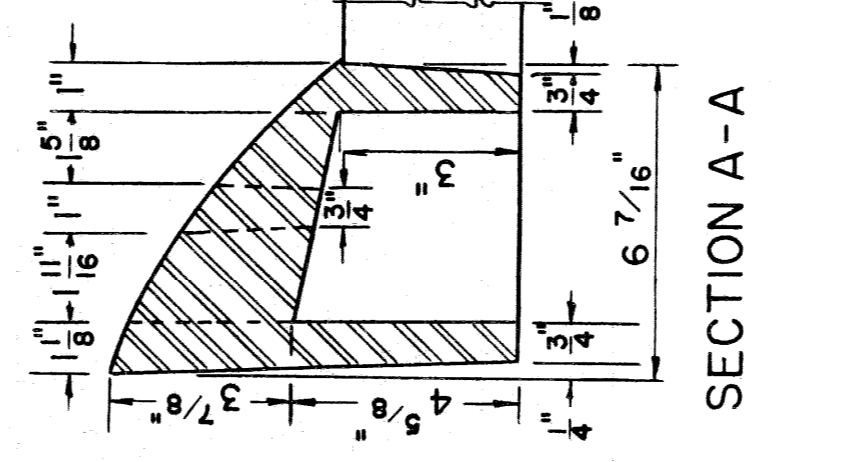
PLAN VIEW



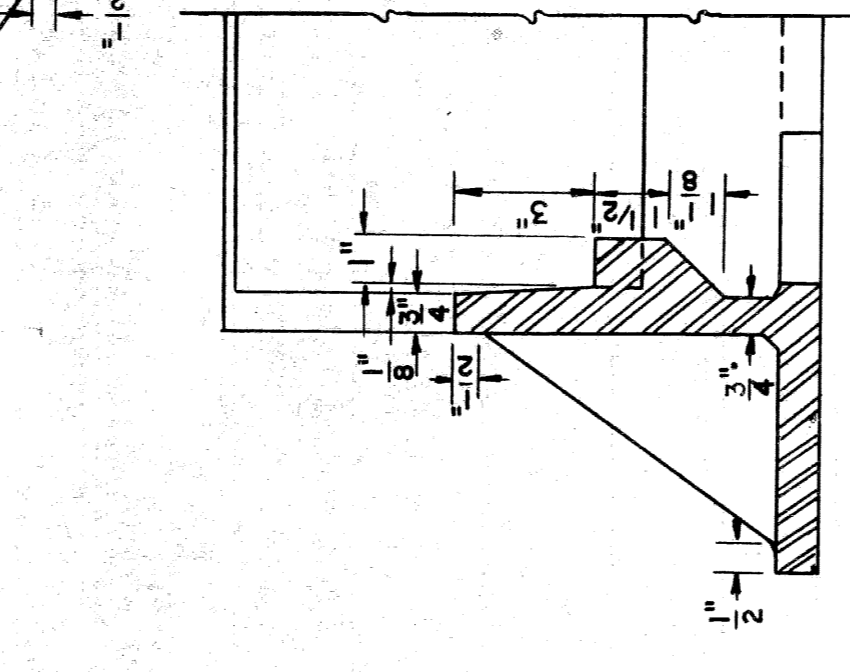
SIDE ELEVATION



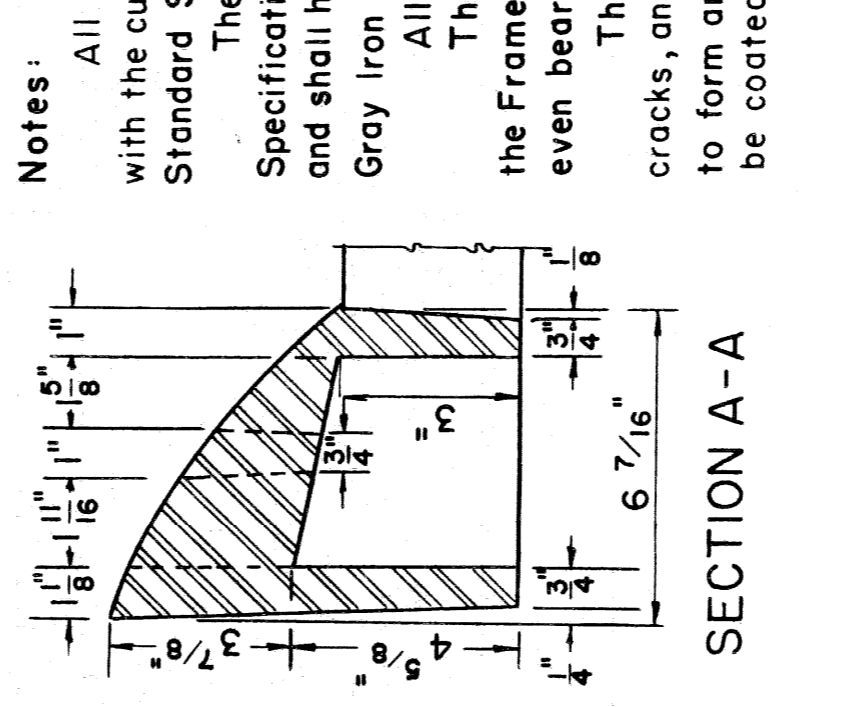
SECTION A-A



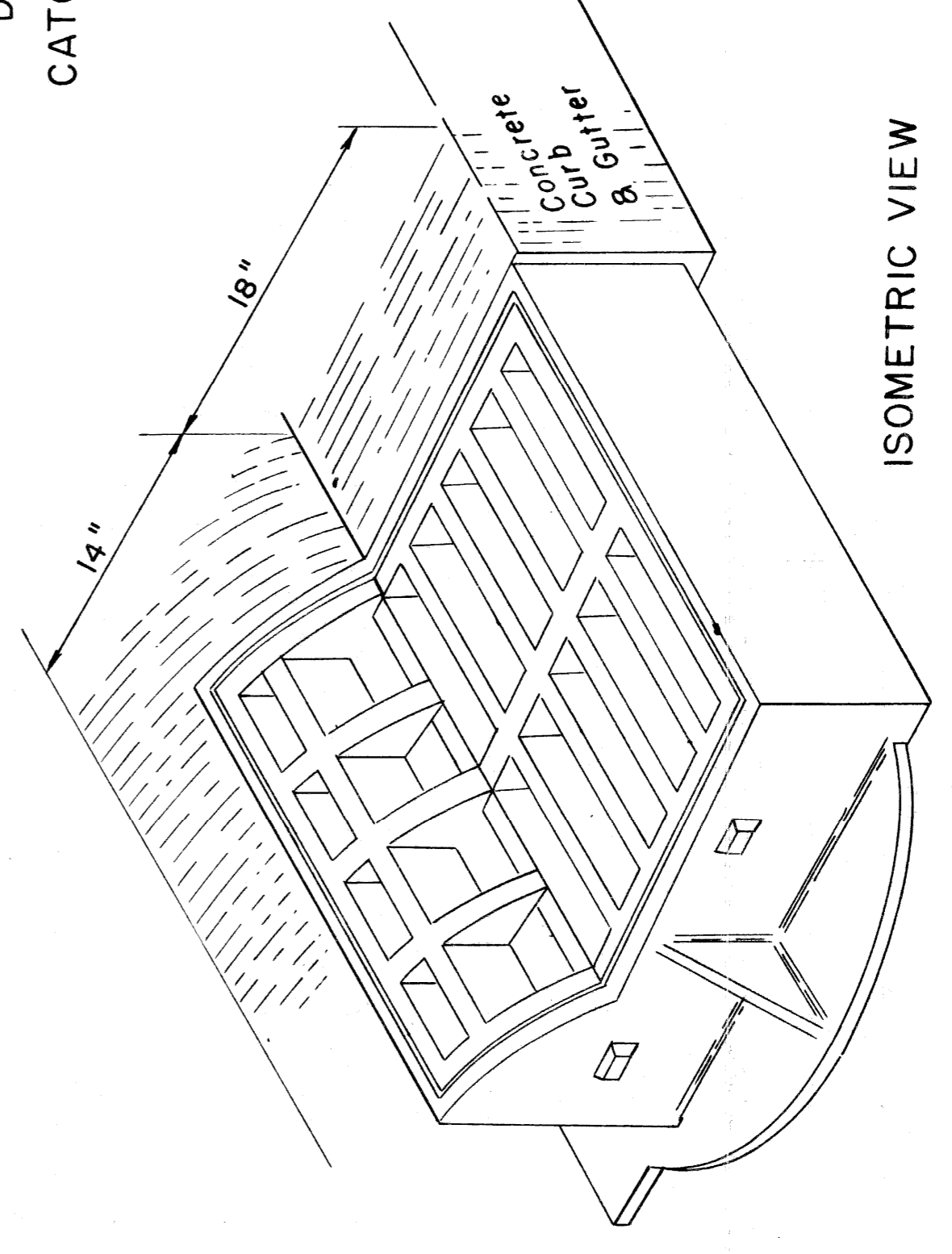
SECTION B-B



DETAILS OF CATCH BASIN FRAME  
Scale 1/4" = 1"



DETAILS OF CATCH BASIN GRATE  
Scale 1/4" = 1"



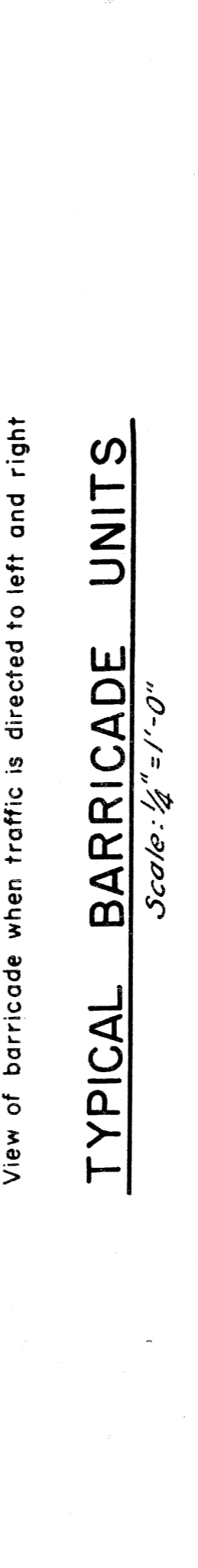
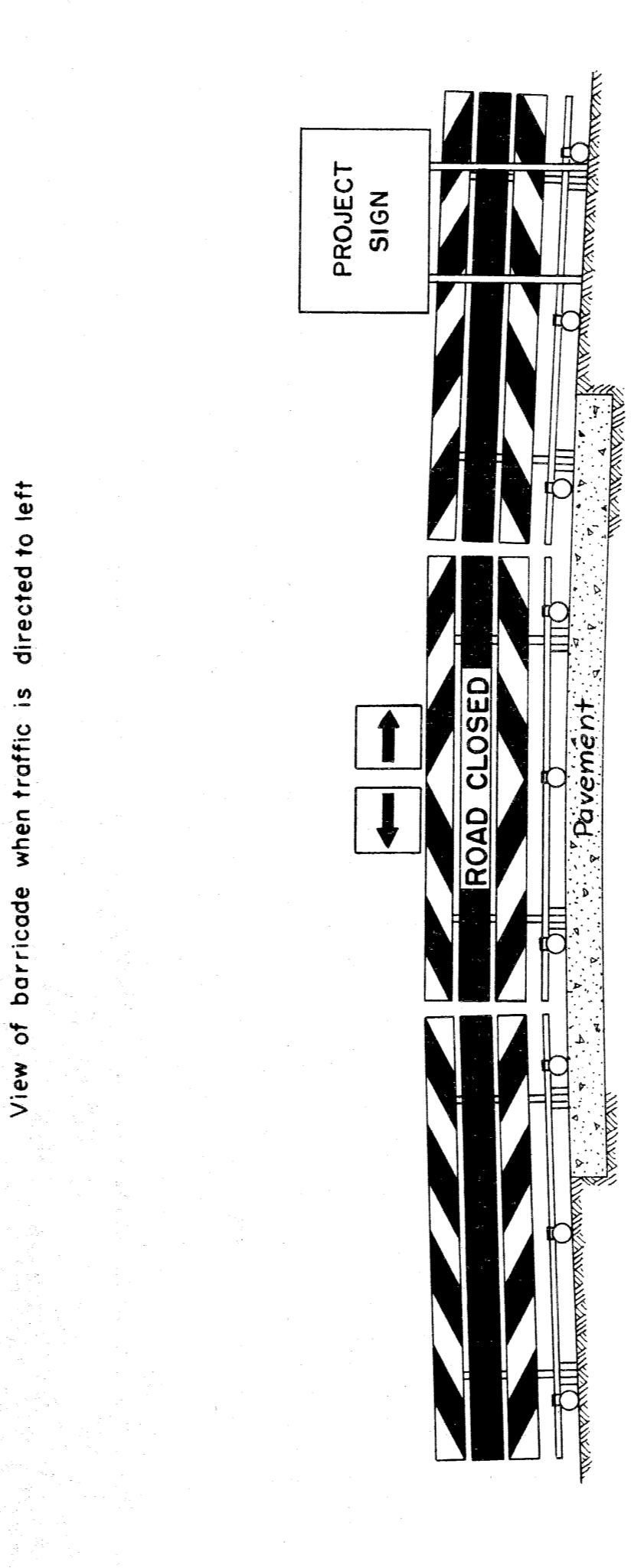
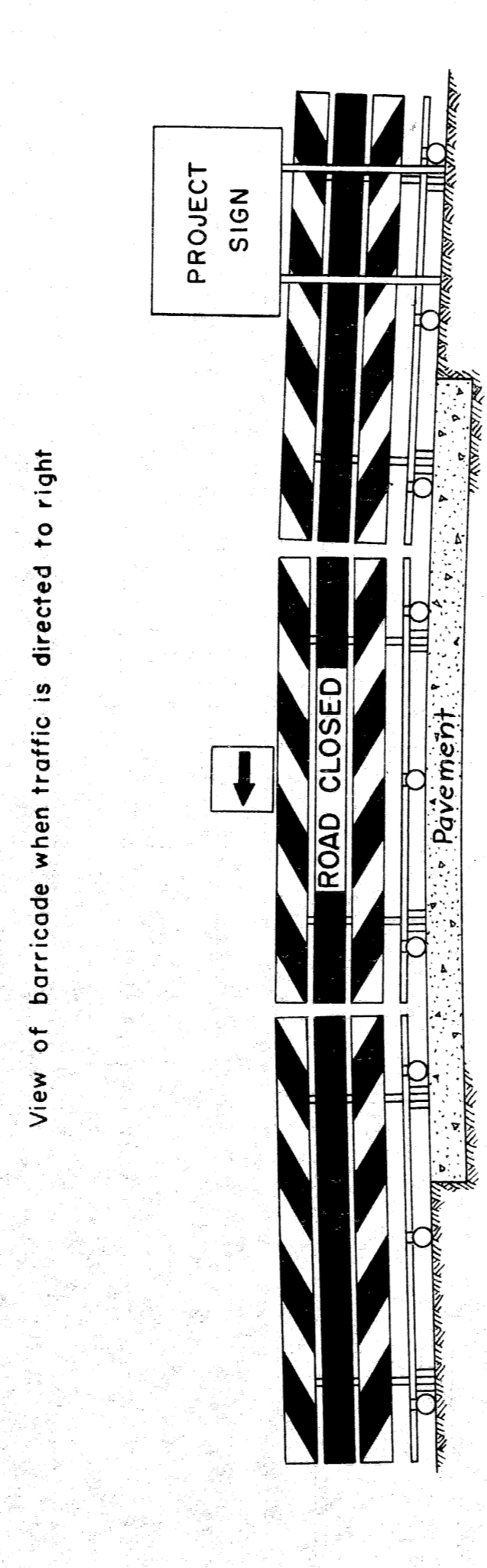
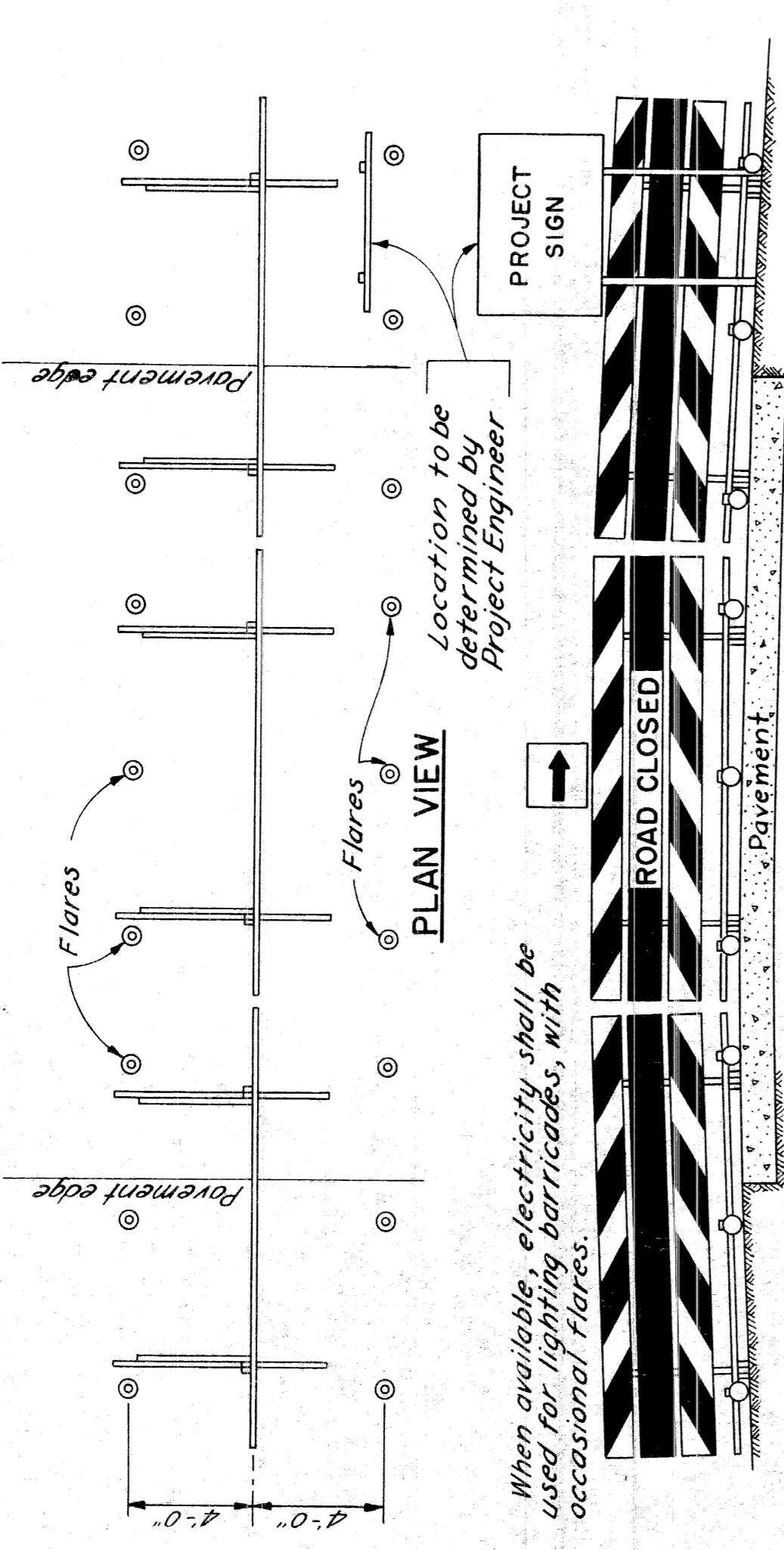
ISOMETRIC VIEW

Notes: All materials and workmanship shall be in accordance with the current Michigan State Highway Department Standard Specifications.  
The Castings shall meet the requirements of the current Specifications for Gray Iron Castings, A.S.T.M. Designation A48 and shall have a minimum strength as provided for class No.30 Gray Iron Castings.  
All Castings shall be cleaned by sand blasting.  
The seating face of the Grate and the seat for same on the Frame shall be ground so that the grate shall have an even bearing on its seat to prevent rocking or tilting.  
The castings shall be free of pouring faults, blow holes, cracks, and other imperfections. They shall be sound, true to form and thickness, clean and neatly finished, and shall be coated with coal tar pitch varnish.

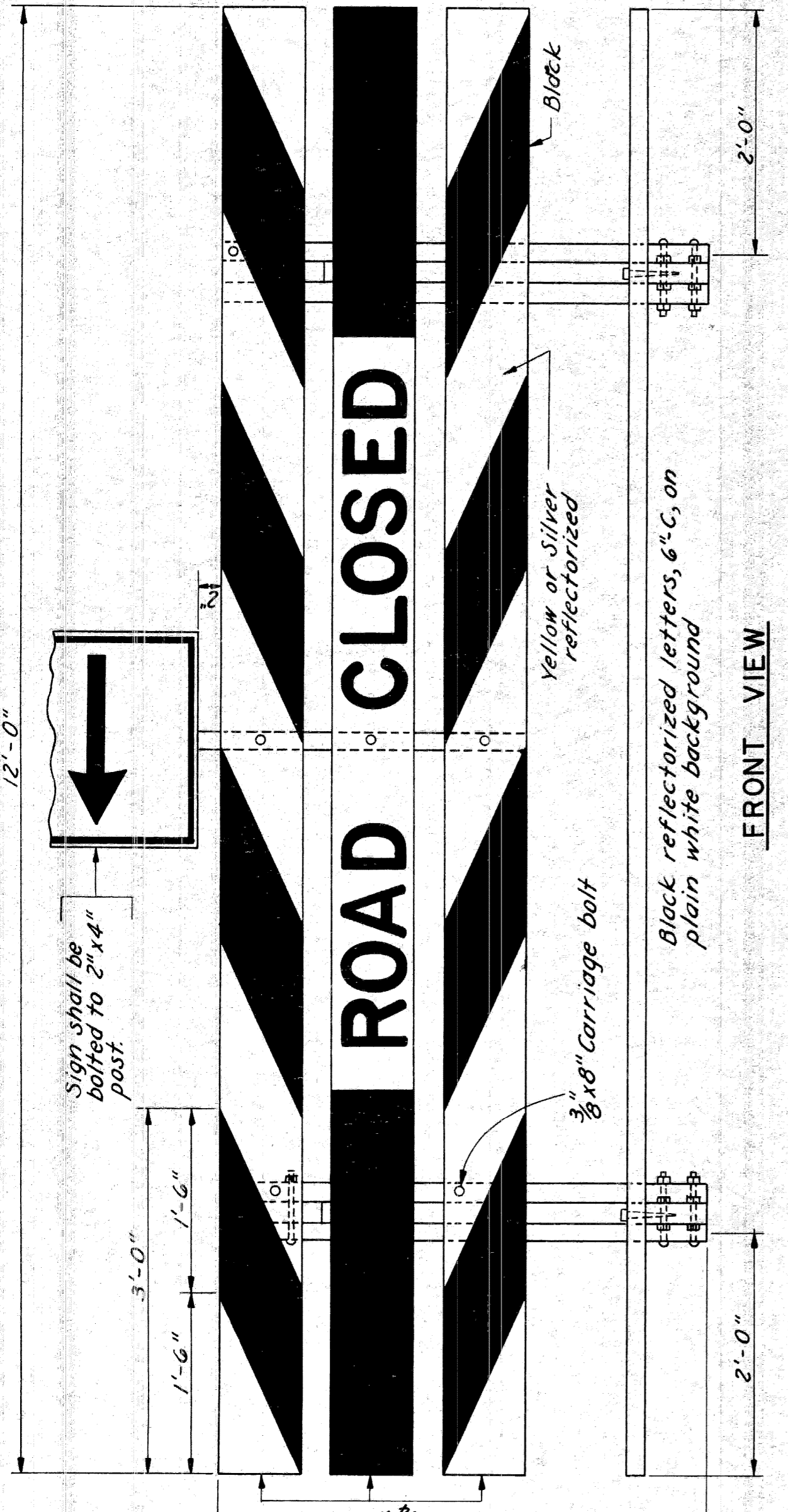
SPECIAL DETAILS FOR COVER J

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

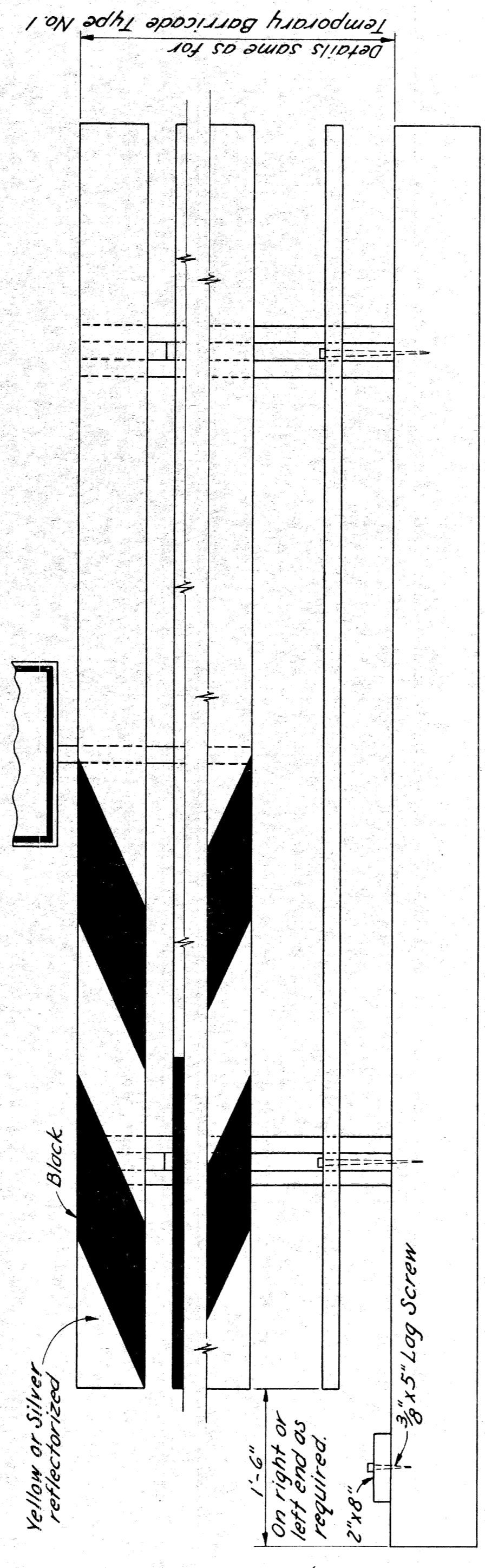
STATE	MI	PROJECT	82111	SHEET NO.	21
CITY	DETROIT	DATE			
DESIGNED BY		CHECKED BY			
DRAWN BY		APPROVED BY			



NOTE:  
All face boards to be Douglas Fir.  
All other boards and posts to be Fir.

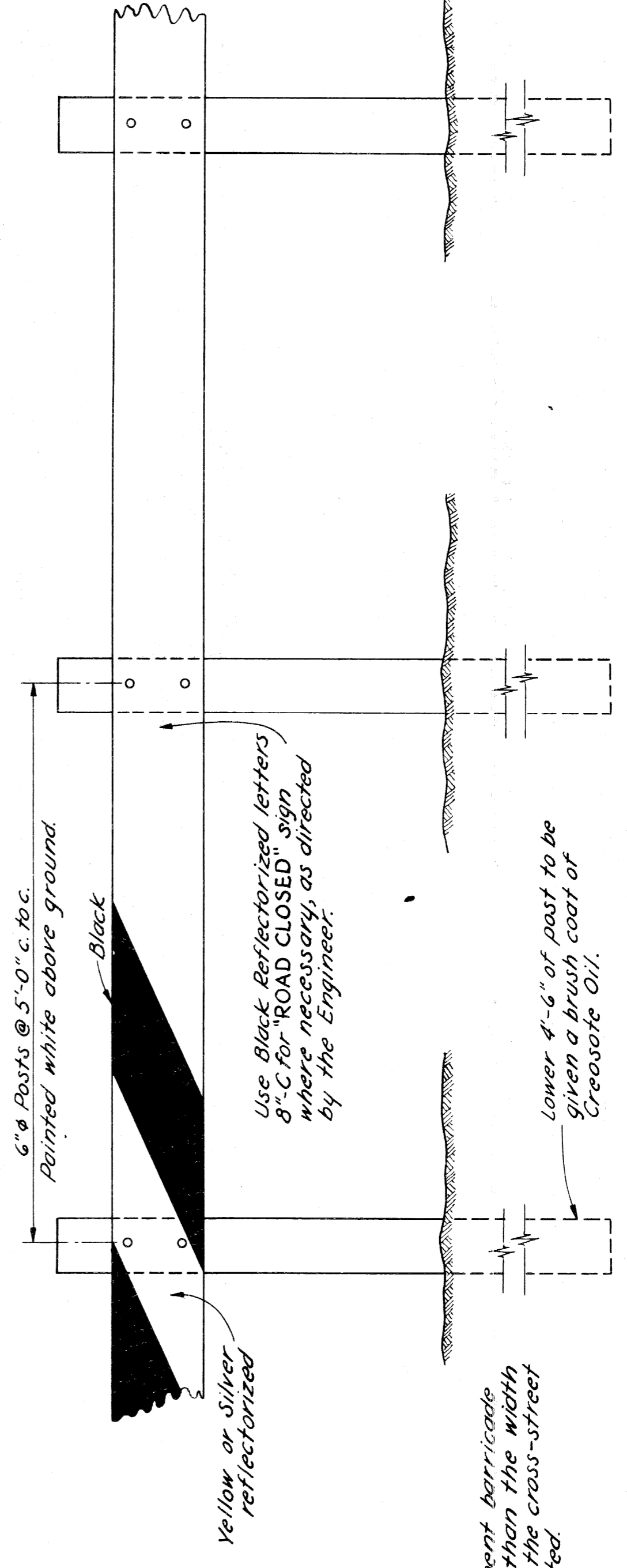


TEMPORARY BARRICADE - TYPE No. 1  
Scale: 1" = 1'-0"



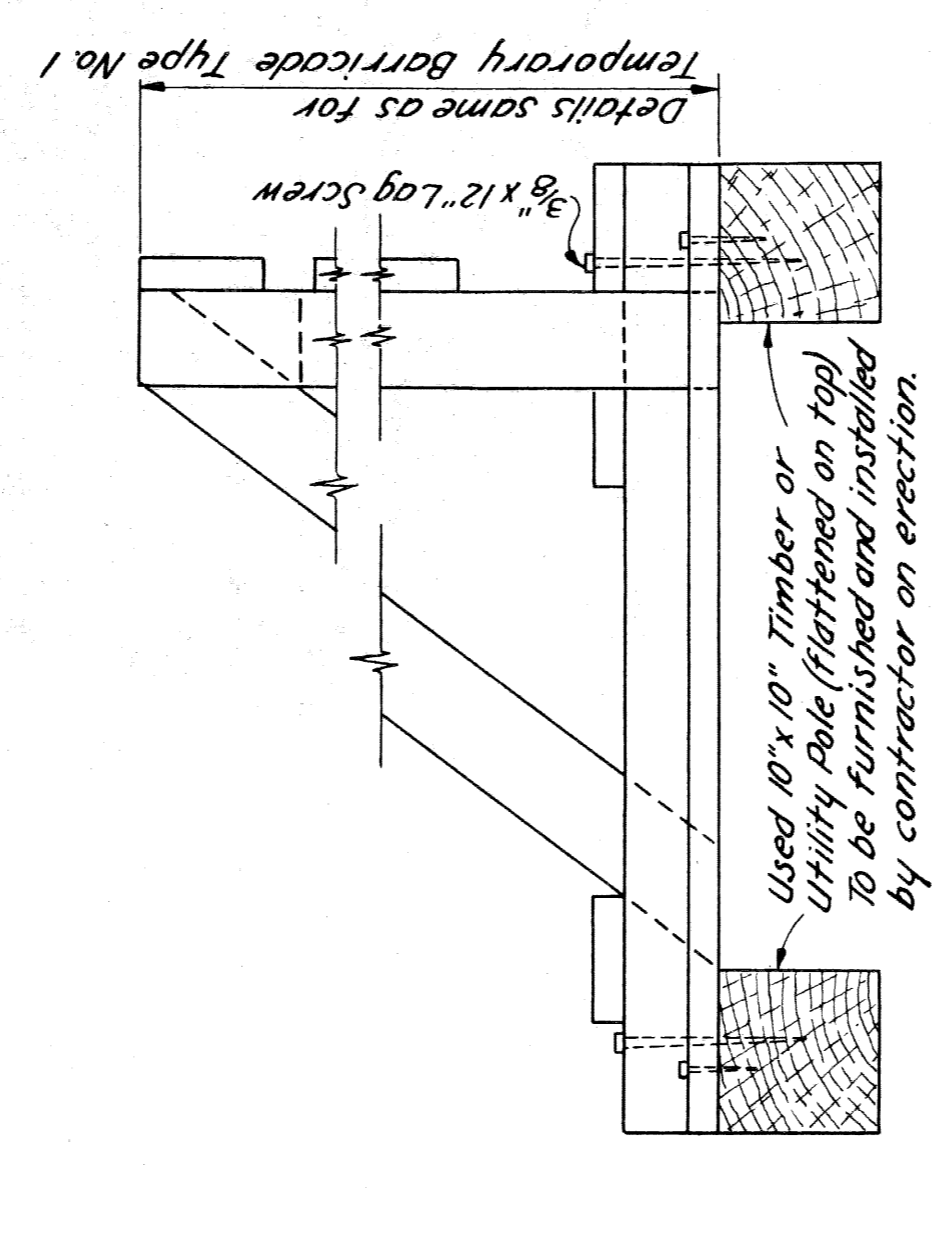
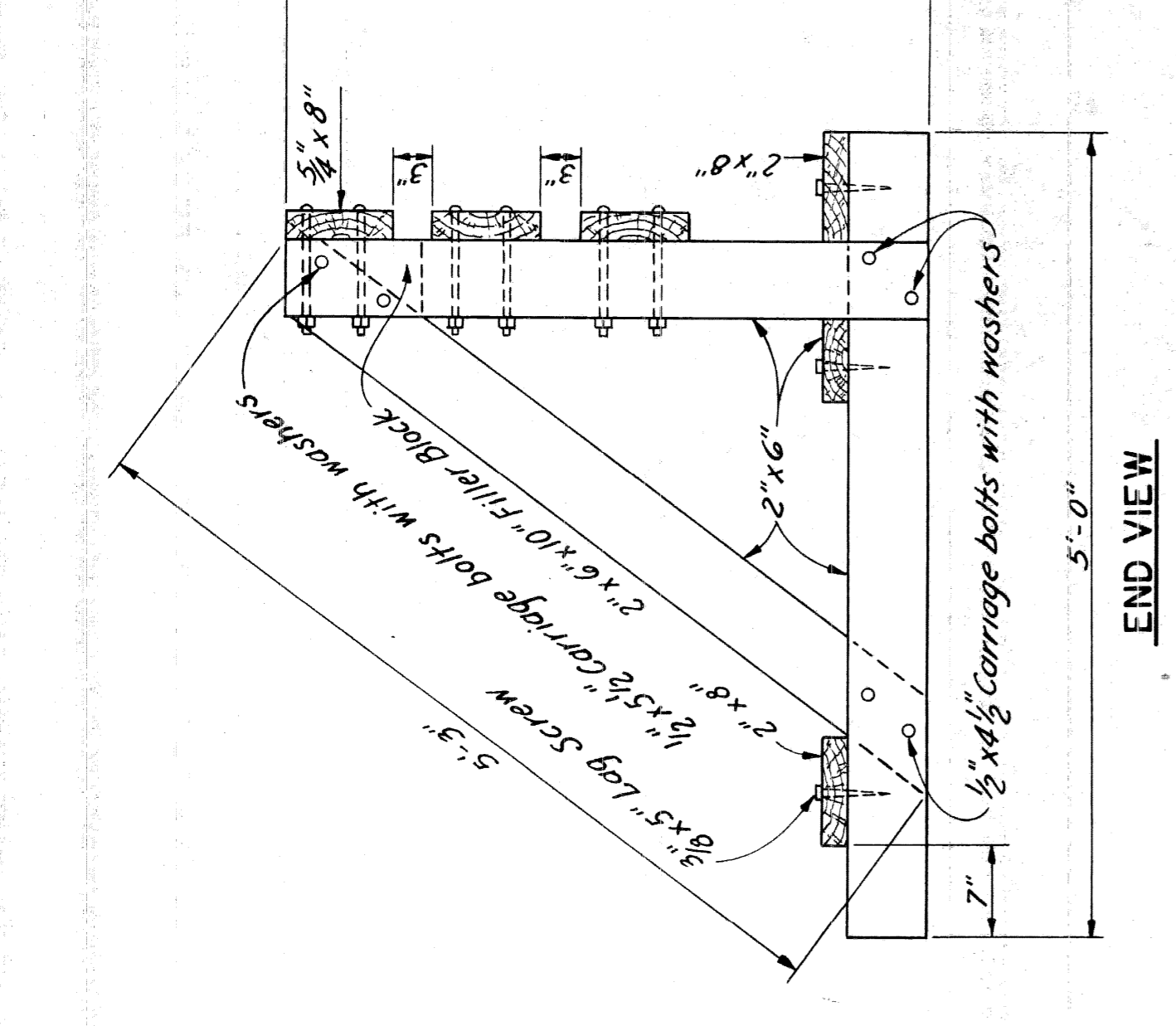
FRONT VIEW

TEMPORARY BARRICADE - TYPE No. 2  
Scale: 1" = 1'-0"



FRONT VIEW

SEMI-PERMANENT BARRICADE  
Scale: 1" = 1'-0"

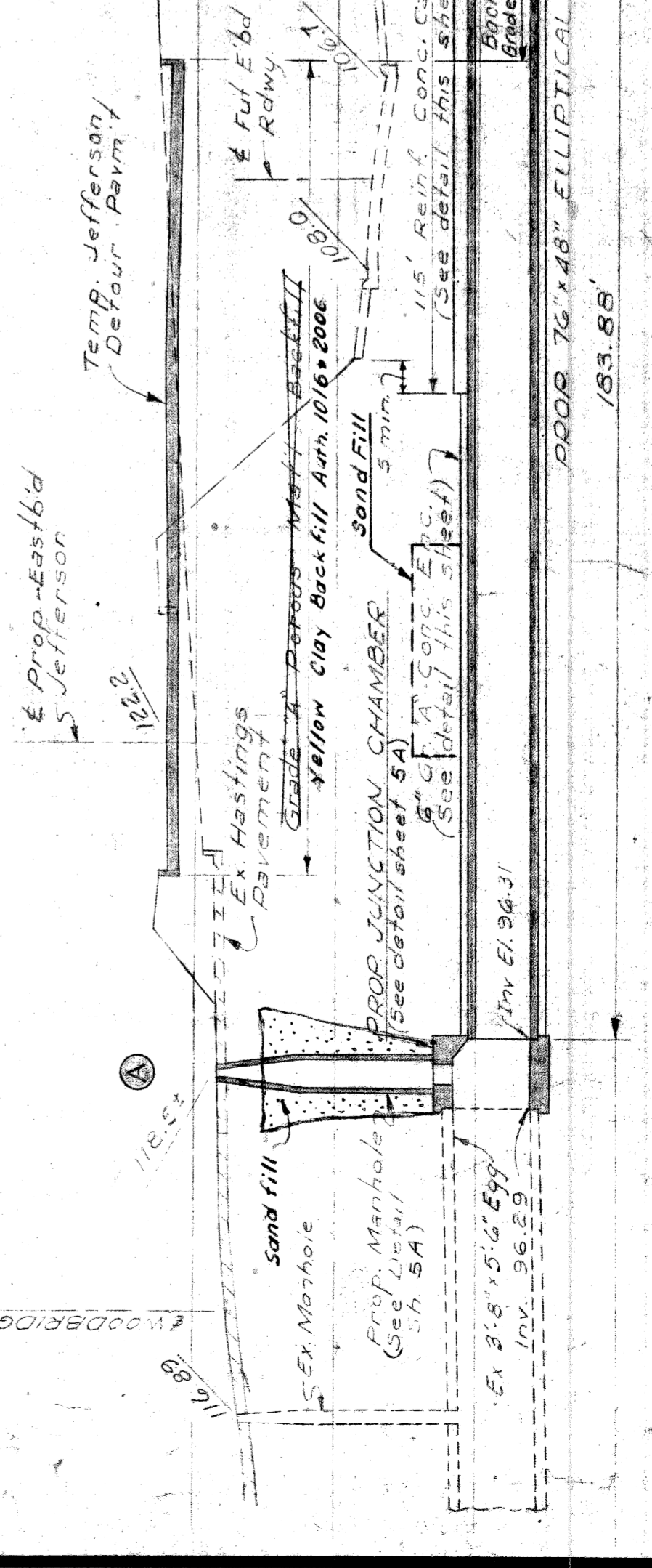
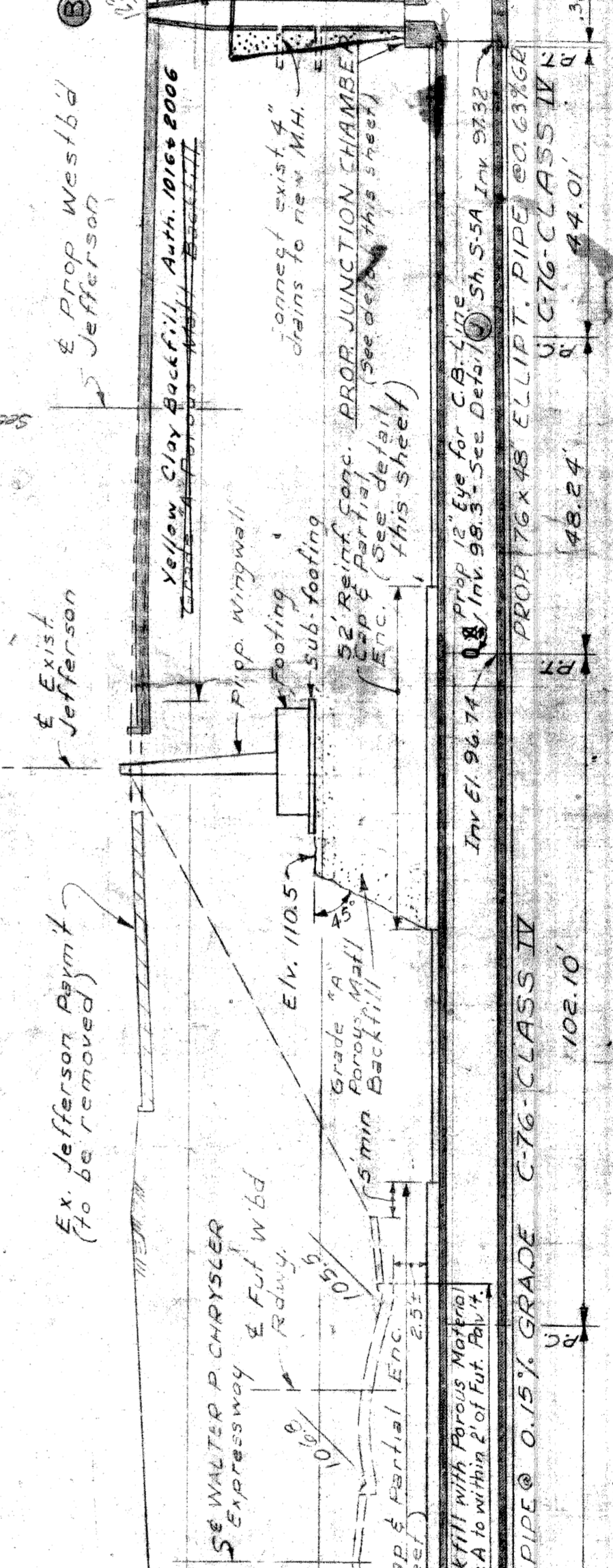
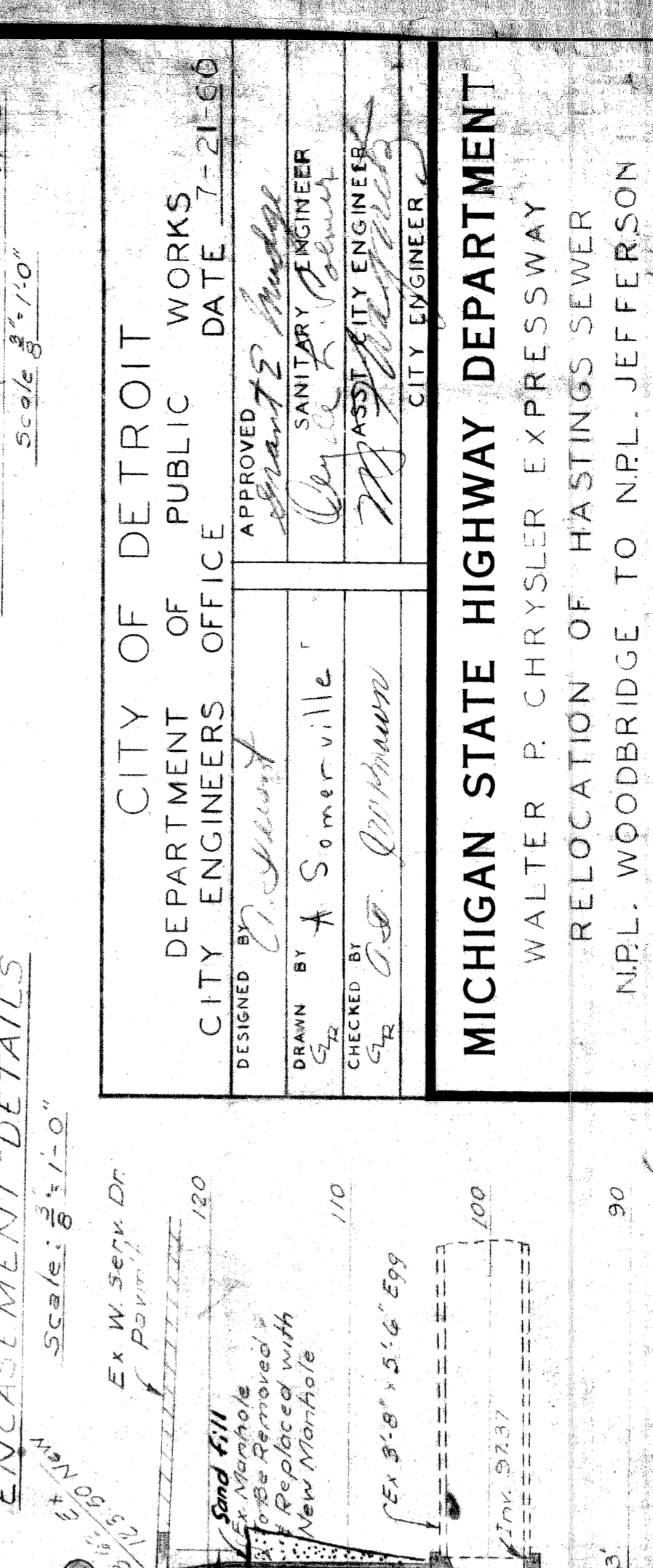
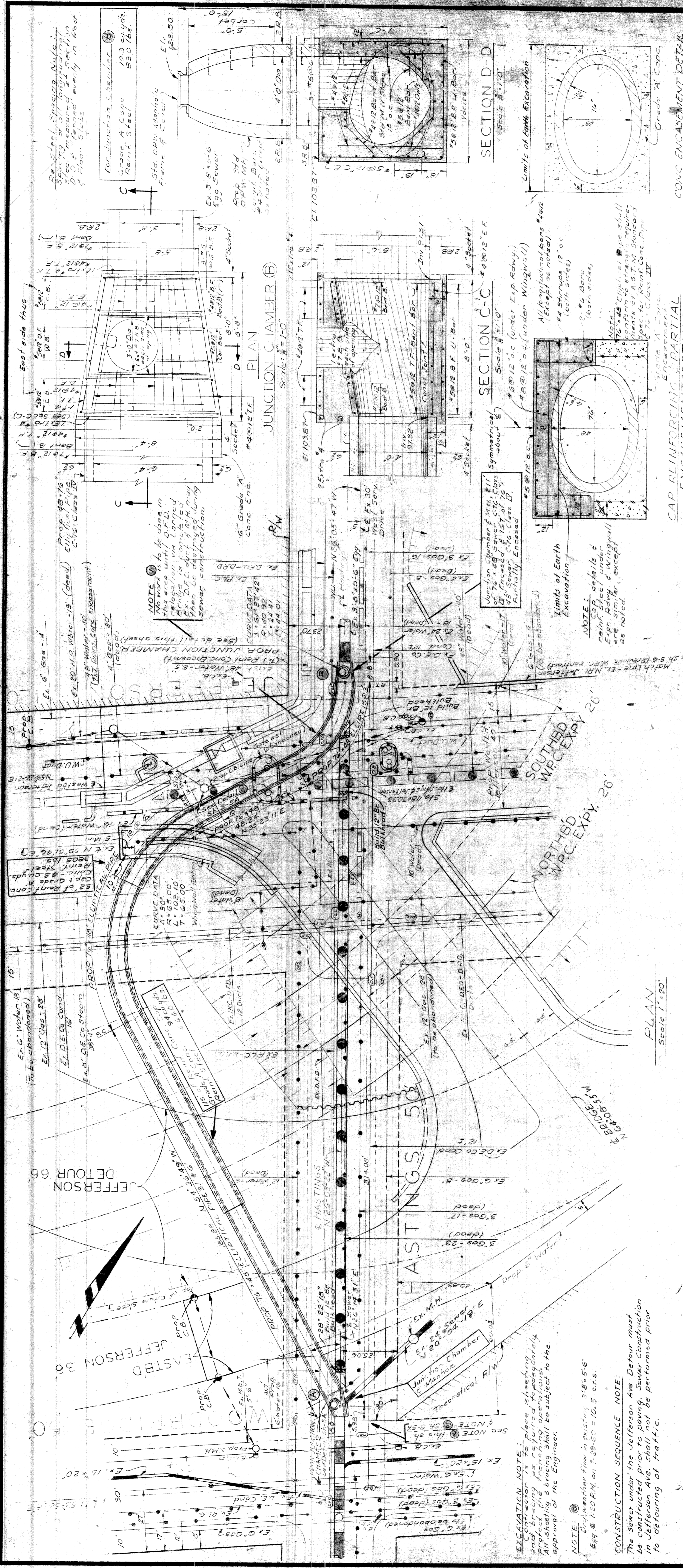


END VIEW

END VIEW

DESIGNED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
ENGINEER IN CHARGE  
ROBERT F. HANAWAY AND THOMAS W. HANAWAY

DETAILS FOR BARRICADES



**EXCAVATION NOTE:**  
 Contractor is to place sheet piling around excavation to protect existing structures. All sheet piling and bracing shall be subject to the approval of the Engineer.

**NOTE:**  
 1. Daily weather flow in existing 9'-8" x 5'-6" Egg @ 1:20 P.M. on 7-29-60 = 10.5 c.f.s.

**CONSTRUCTION SEQUENCE NOTE:**  
 The sewer under the Jefferson Ave. Detour must be constructed prior to paving. Sewer construction in Jefferson Ave. shall not be performed prior to detouring of traffic.

**PLAN**  
 Scale 1" = 20'

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

**SECTION D-D**  
 Scale 1/2" = 1'-0"

**PROFILE**  
 Scale: Vert. 1" = 20'

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

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 (To be abandoned)

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 38'-4"

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**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**EX. 12" GAS - 28"**  
 (To be abandoned)

**EX. 8" DE CO STEAM**  
 38'-4"

**EX. 15" x 20" WOOD BRIDGE**

**CITY OF DETROIT**  
**DEPARTMENT OF PUBLIC WORKS**  
**CITY ENGINEERS OFFICE**

DESIGNED BY: *[Signature]*  
 DRAWN BY: A. Somerville  
 CHECKED BY: *[Signature]*

APPROVED: *[Signature]* SANITARY ENGINEER  
*[Signature]* ASSISTANT CITY ENGINEER  
 CITY ENGINEER

DATE: 7-21-60

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
 WALTER P. CHRYSLER EXPRESSWAY  
 RELOCATION OF HASTINGS SEWER  
 NPL. WOODBRIDGE TO NPL. JEFFERSON

NO.	REVISIONS	DATE	BY

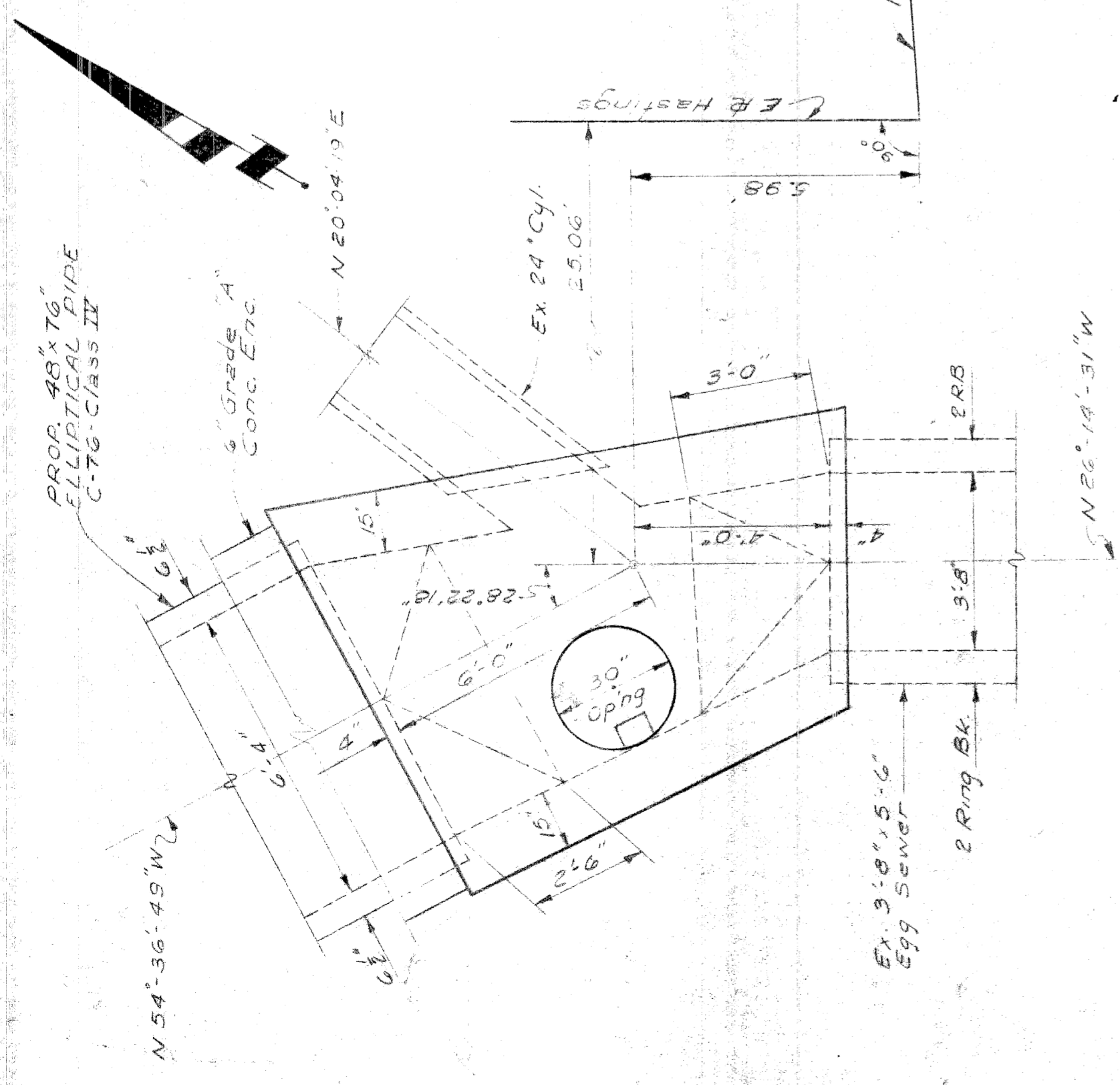
82111-C-14

Scale: 1" = 20'

Scale: 1/2" = 1'-0"

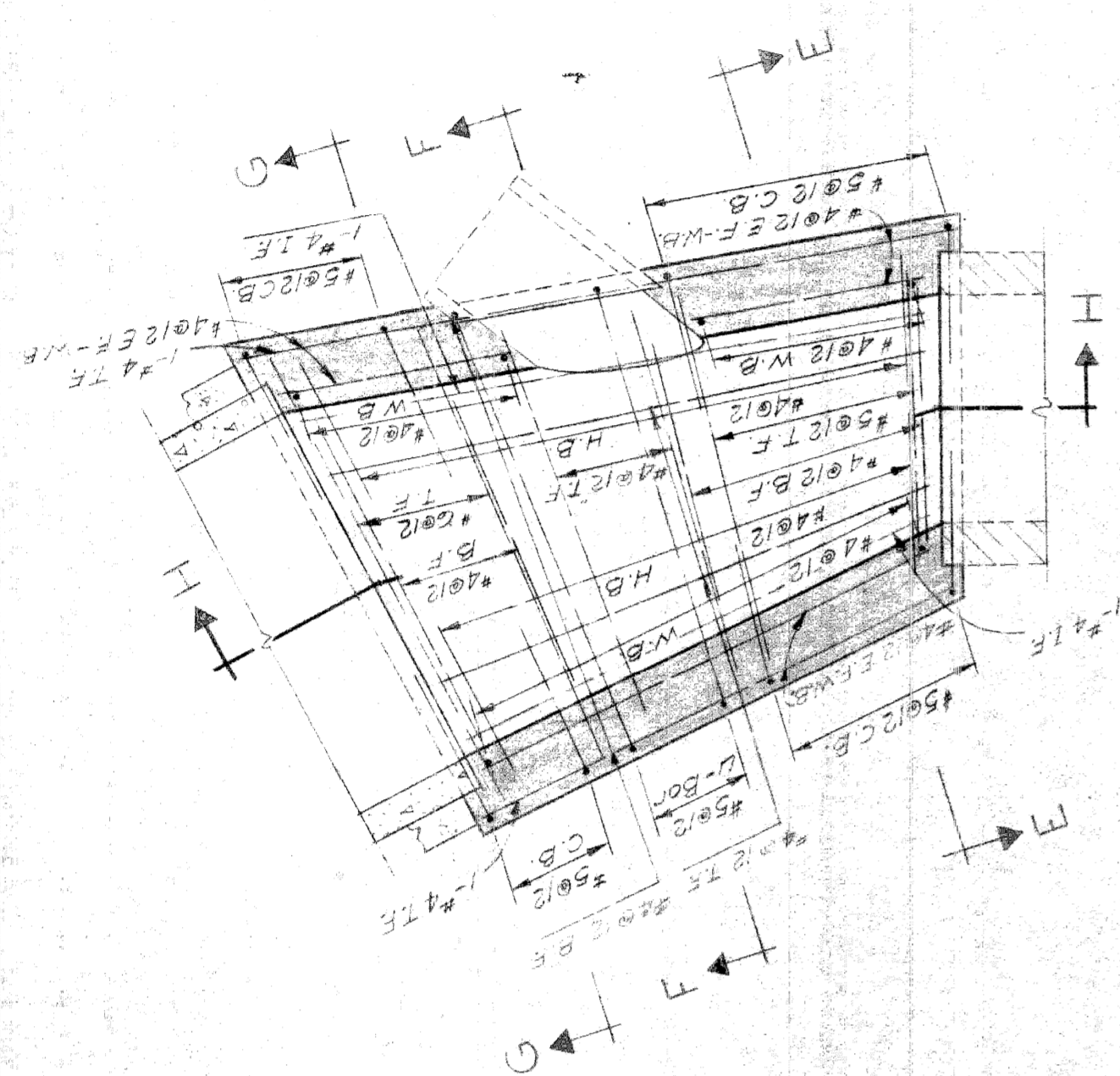
Scale: 1/2" = 1'-0"

Scale: Vert. 1" = 20'

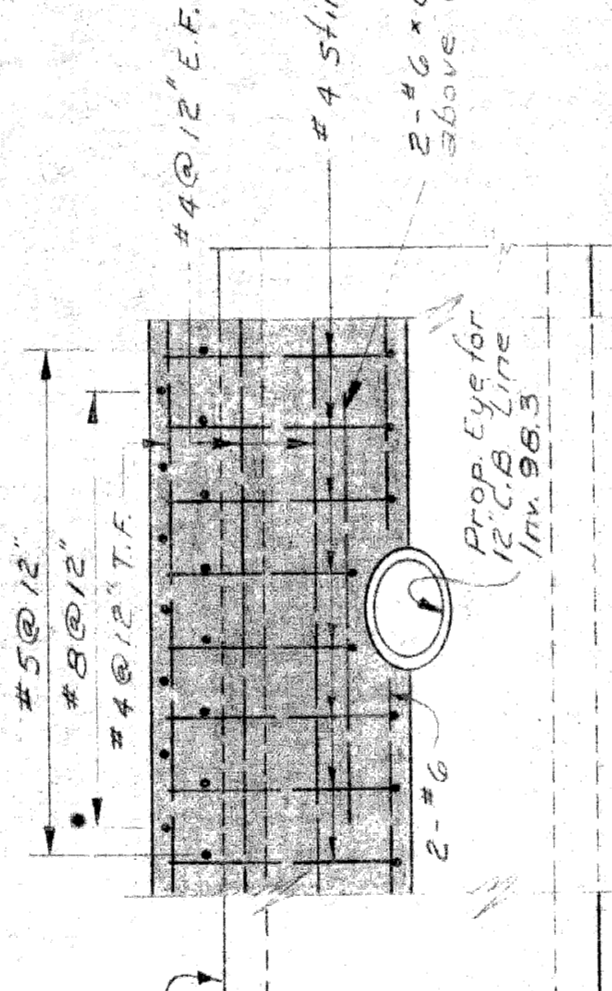


**PROP JUNCTION CHAMBER A**  
Scale:  $\frac{3}{8}'' = 1'-0''$

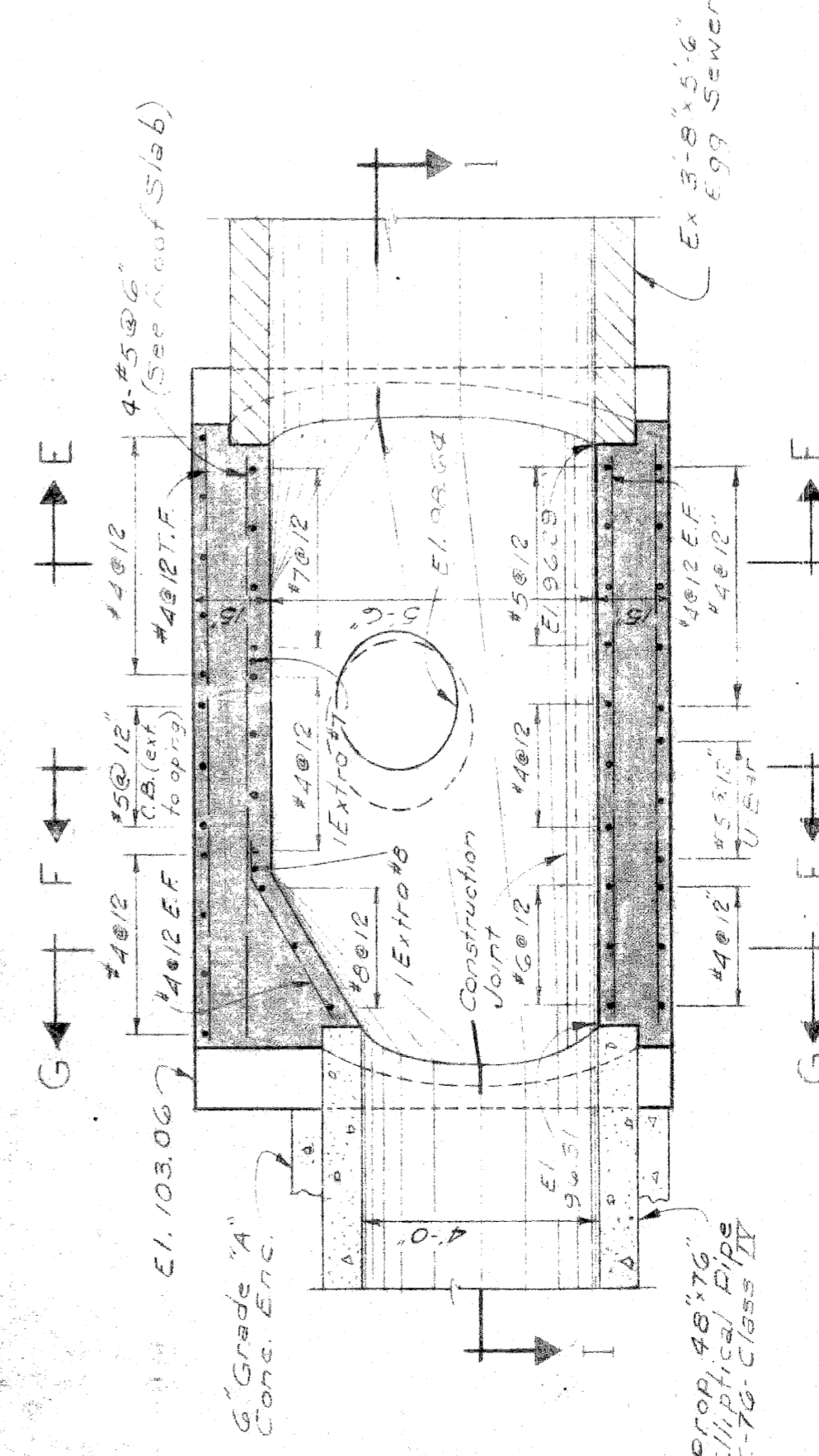
**Re. Steel Spacing Note**  
Spacing of all longitudinal & transverse steel measured along Section Lines H-H, F-F and G-G evenly in Roof & Floor Slabs.



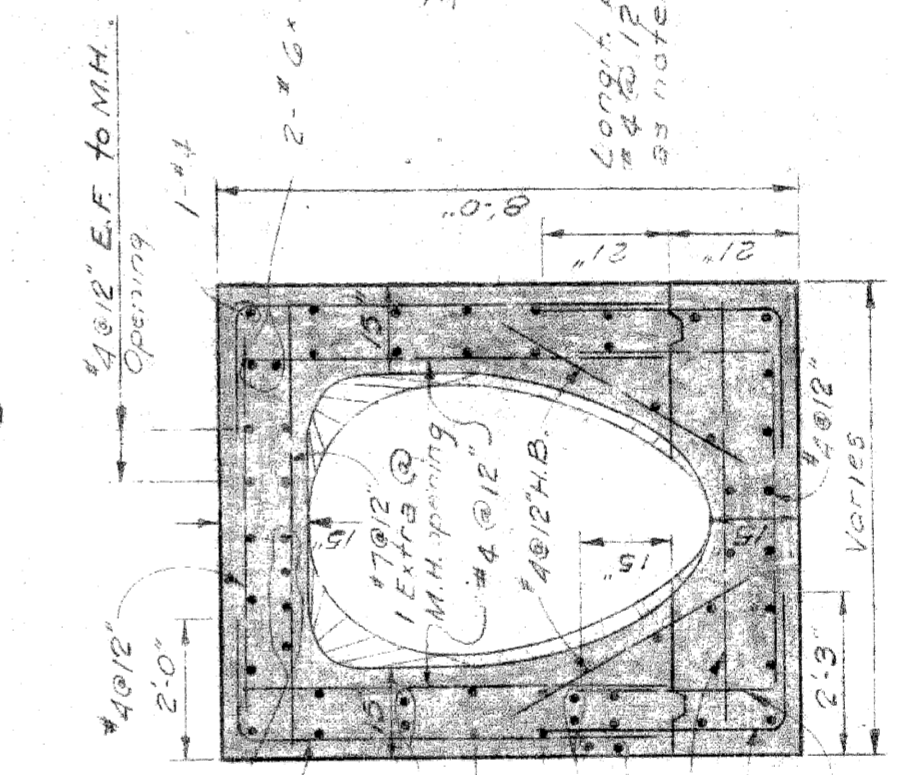
**SECTION I-I**  
Scale:  $\frac{3}{8}'' = 1'-0''$



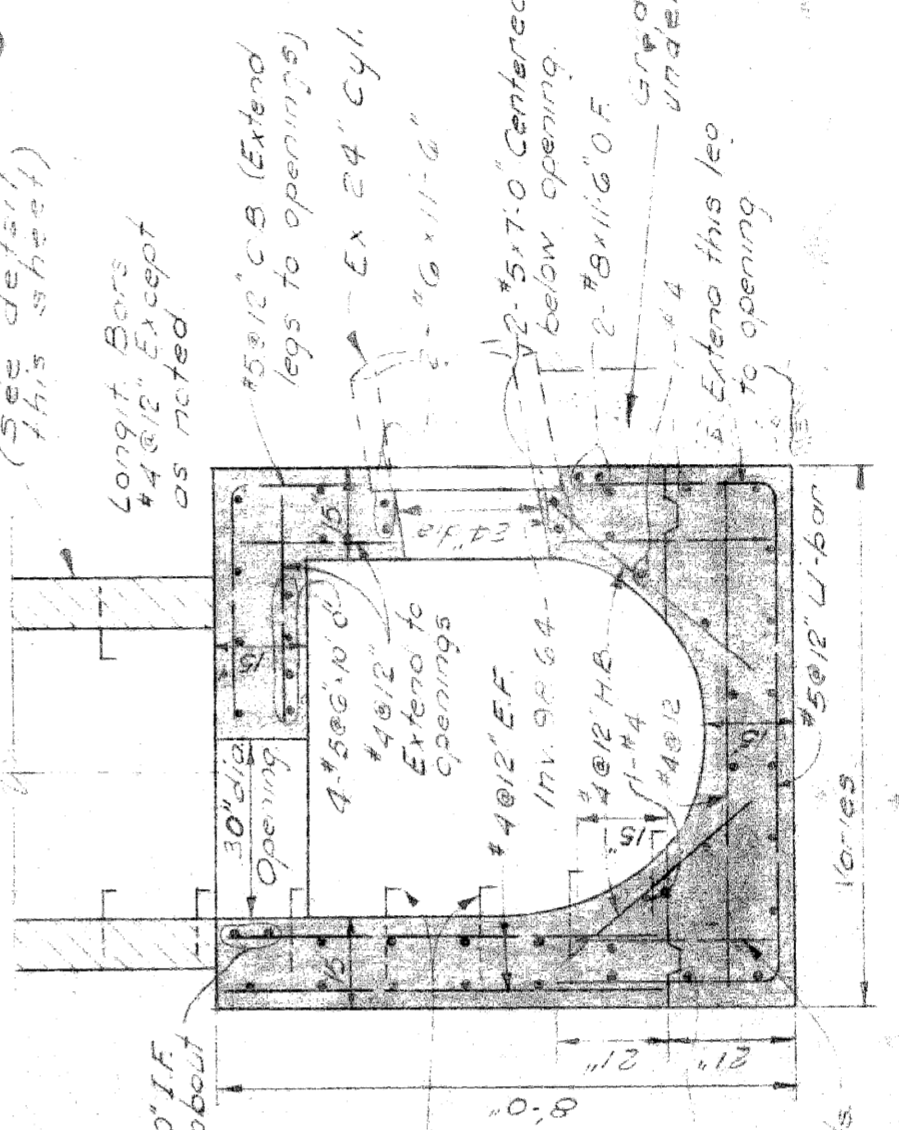
**DETAIL CAP REINFORCING DETAIL @ 12" C.B. LINE EYE**  
Scale:  $\frac{3}{8}'' = 1'-0''$



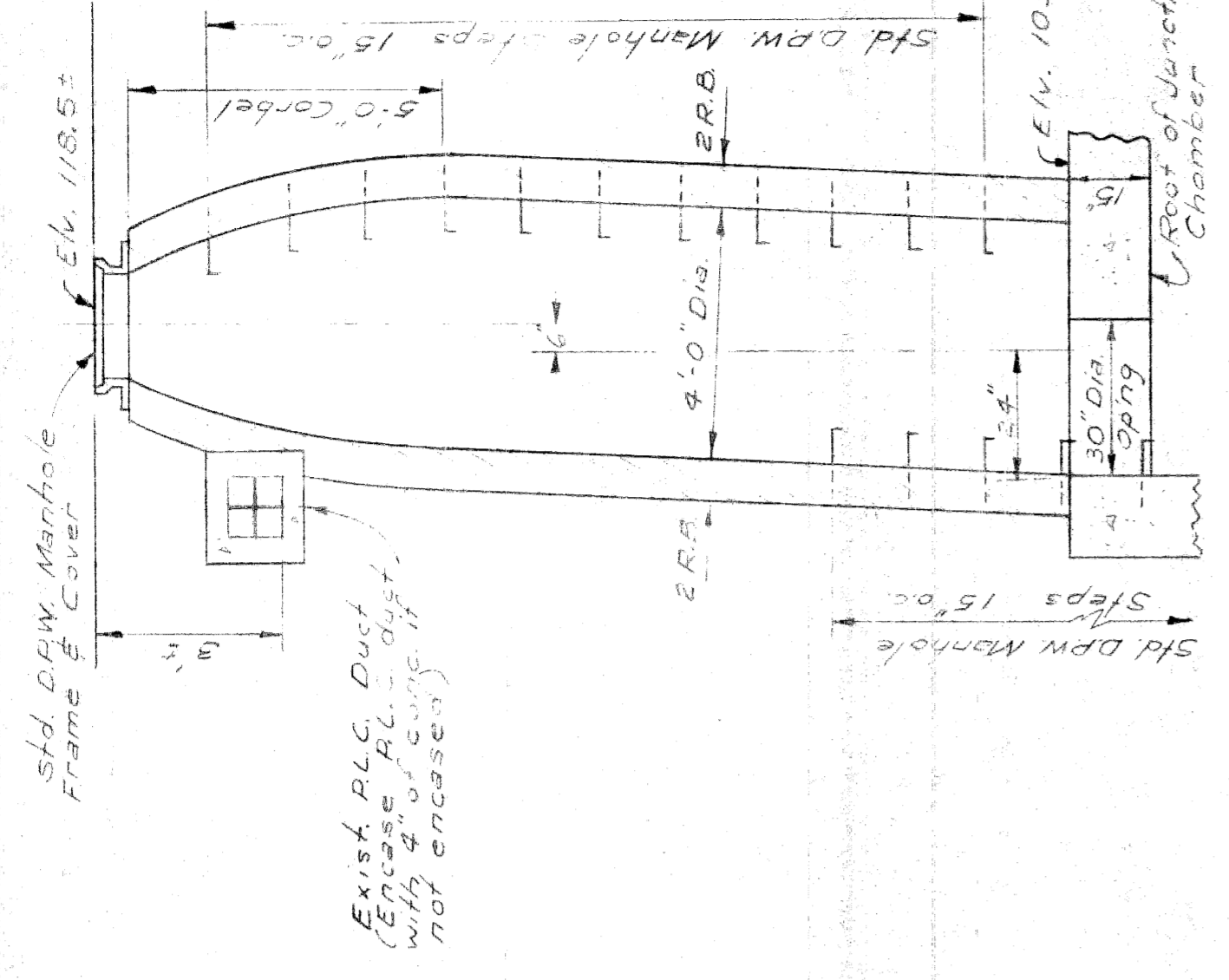
**SECTION H-H**  
Scale:  $\frac{3}{8}'' = 1'-0''$



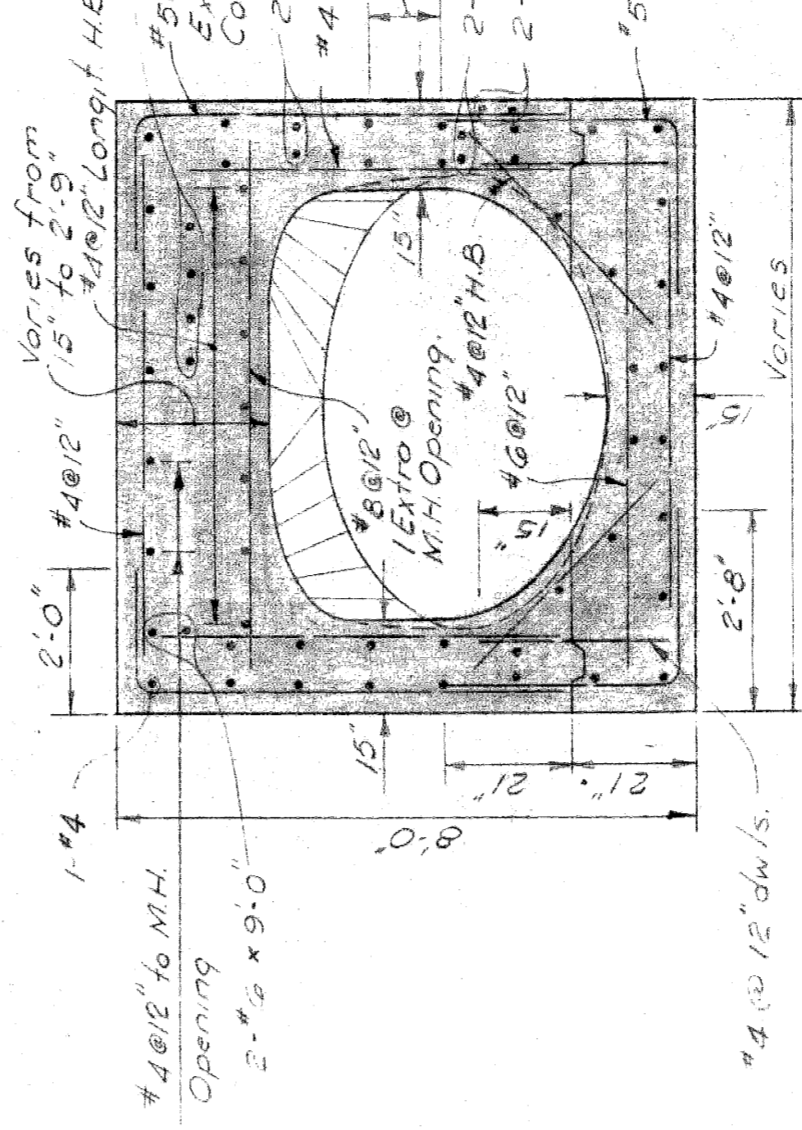
**SECTION E-E**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**SECTION F-F**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**MANHOLE A**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**SECTION G-G**  
Scale:  $\frac{3}{8}'' = 1'-0''$

**NOTE**  
A.L.C. Communications Div. shall be notified prior to starting utility work with 4' of curve if supporting access trench separating in the regions of the J.C.C. Communications Division.  
See NOTE 54.5.5

**CITY OF DETROIT**  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED: [Signature]  
DATE: 7-21-60

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
WALTER P. CHRYSLER EXPRESSWAY  
RELOCATION OF HASTINGS SEWER  
WOODBRIDGE CHAMBER DETAILS

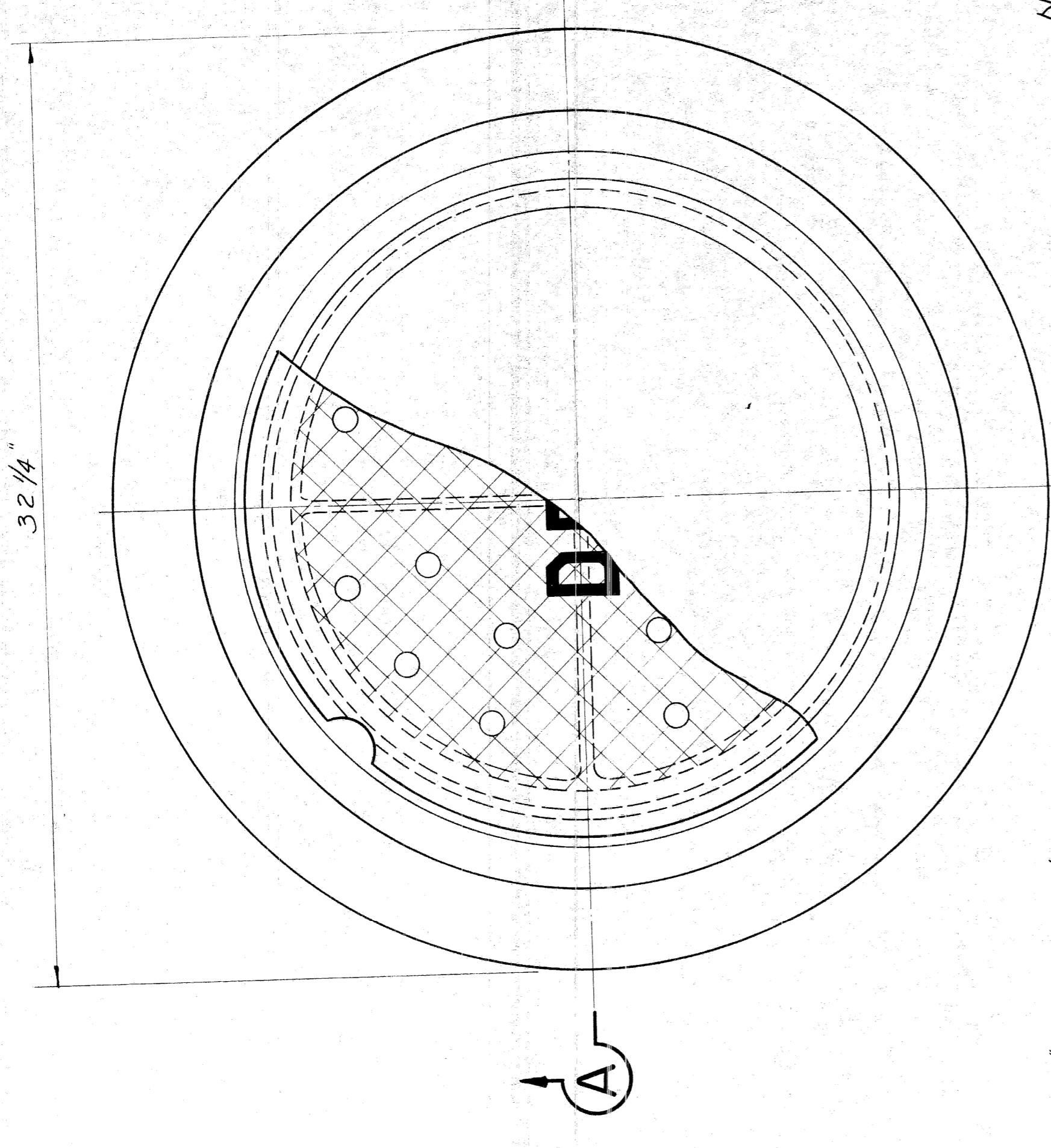
NO.	REVISIONS	DATE	BY

DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED: [Signature]  
DATE: 7-21-60

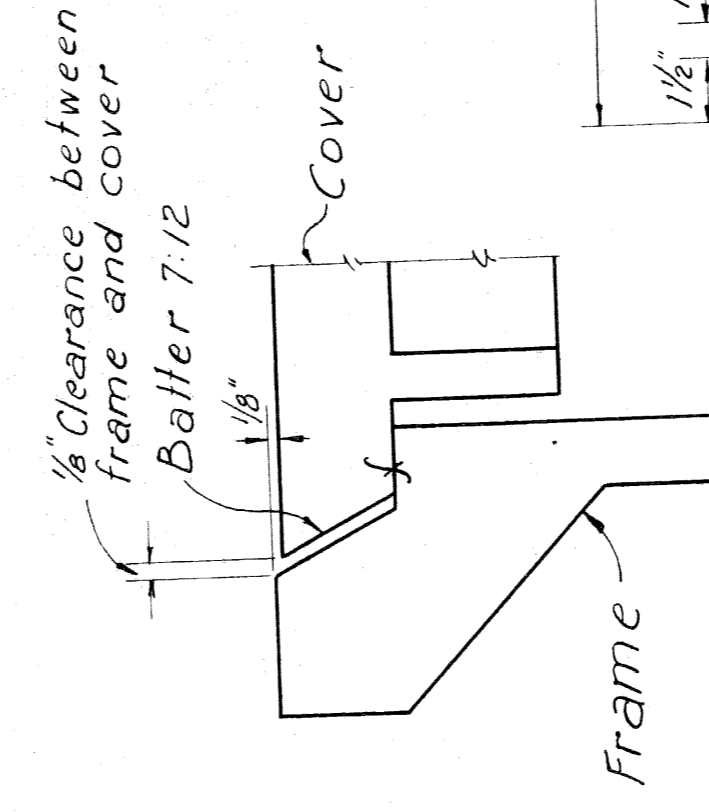
82III-C14

SEC. A SH. S-5A

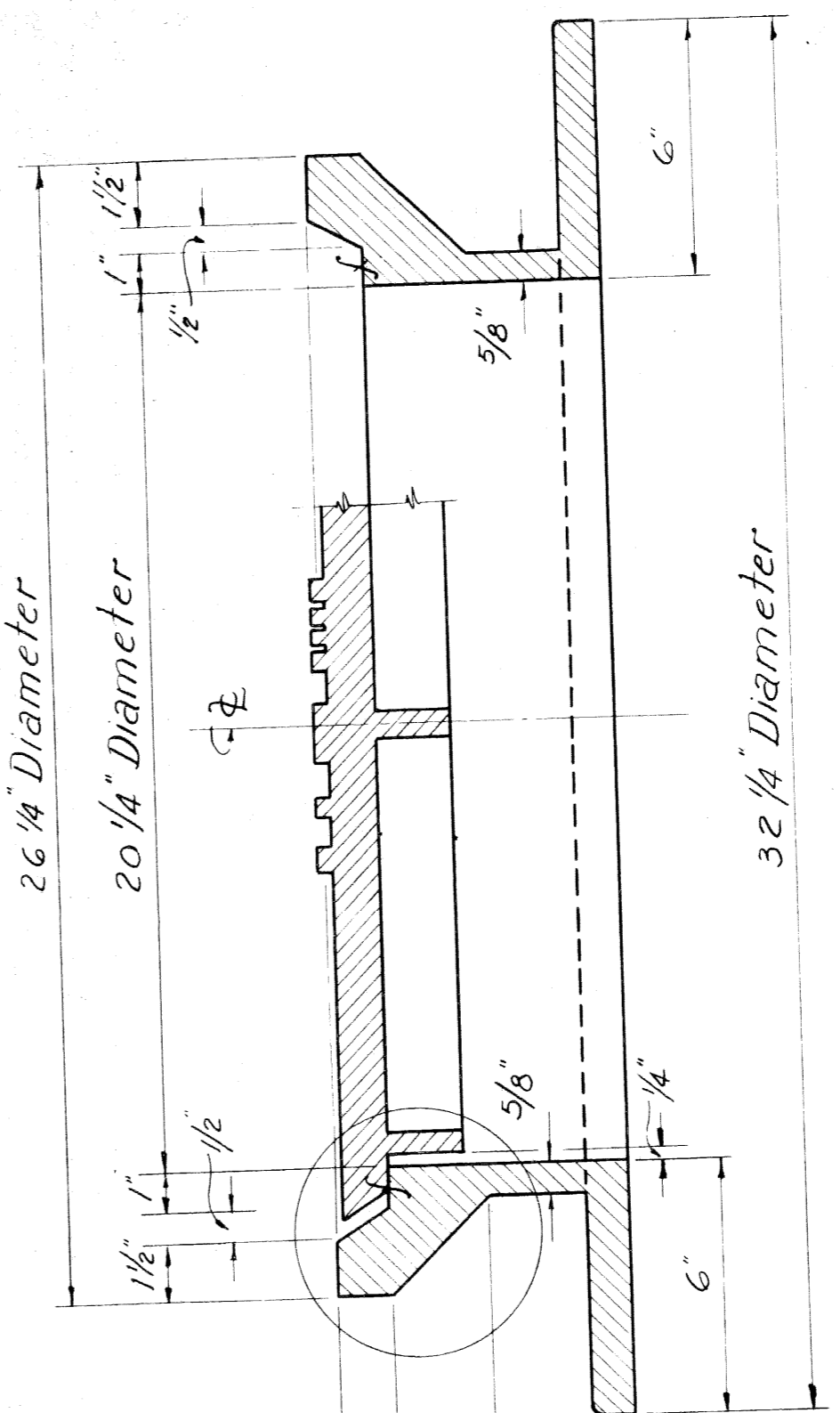
STATE	NO. NO.	SHEET
INDIA	123-10000	1
CITY		
COUNTRY		
PROJECT	82111	24
DESIGNER		
CHECKER		
DATE		
SCALE		
PROJ. NO.		
DATE		
STATE		
CITY		
PROJECT		
NO. OF SHEETS		



PLAN VIEW OF FRAME



SECTION A-A

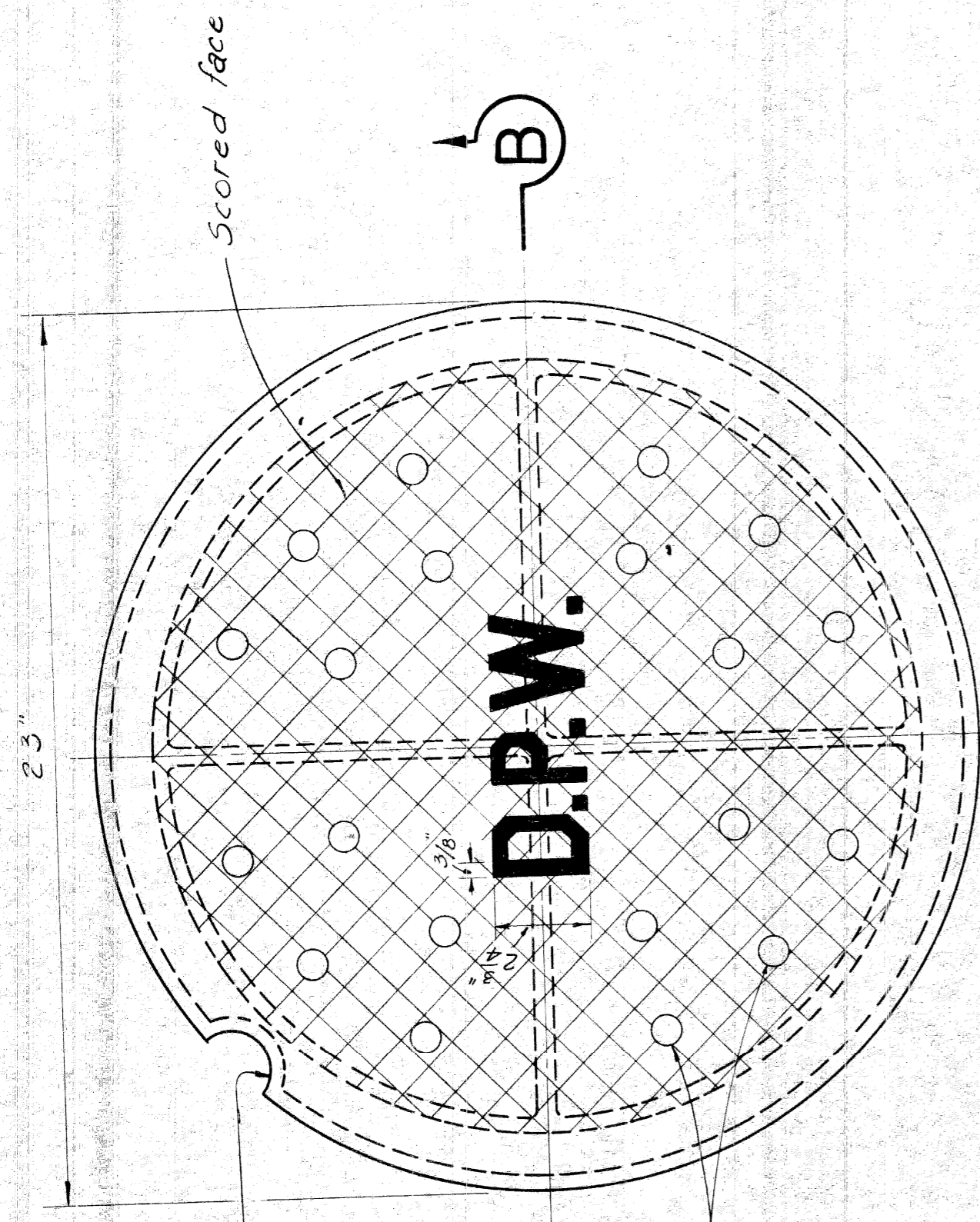


SCALE 3" = 1'

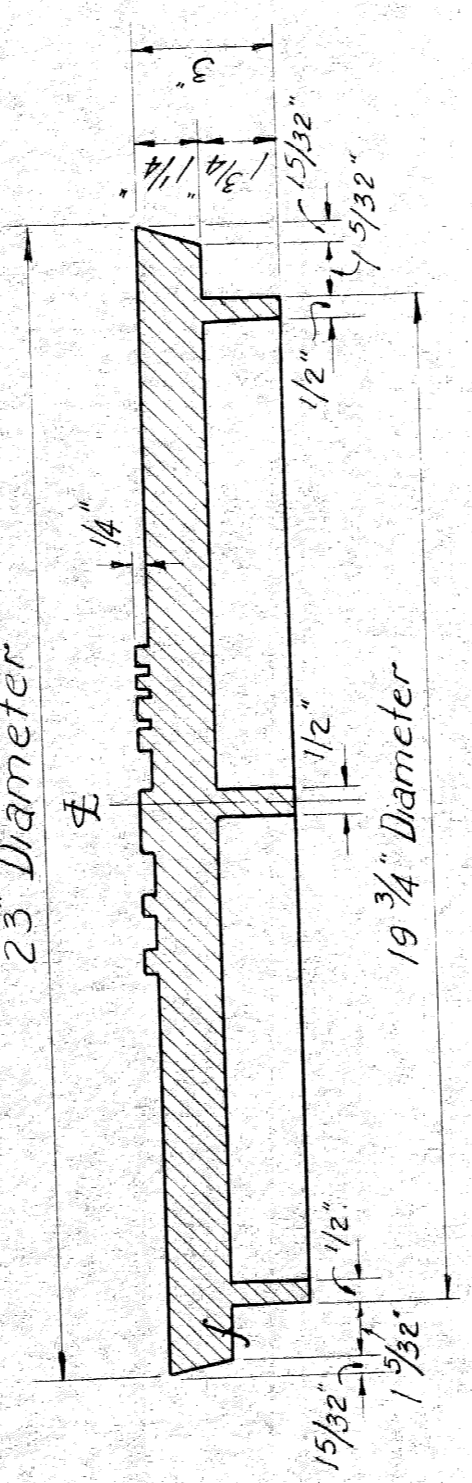
1" Radius pickhold in solid covers only.

Letters to be 3/8" wide, 2 3/4" high and raised 1/4" location & spacing as shown.

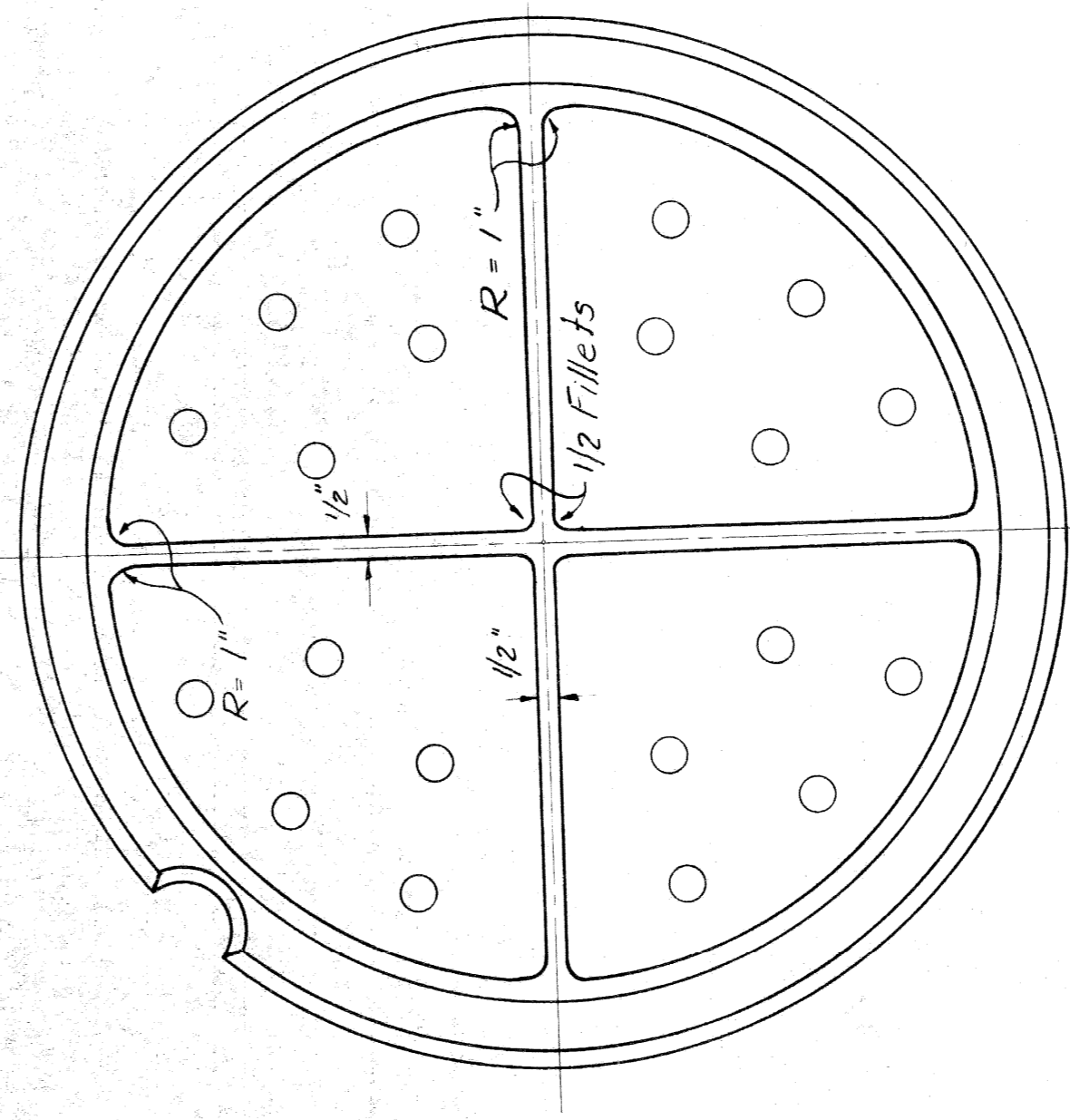
20 - 1/4" Dia perforations  
24.54 Sq. in = 5.91%



PLAN VIEW OF COVER



SECTION B-B

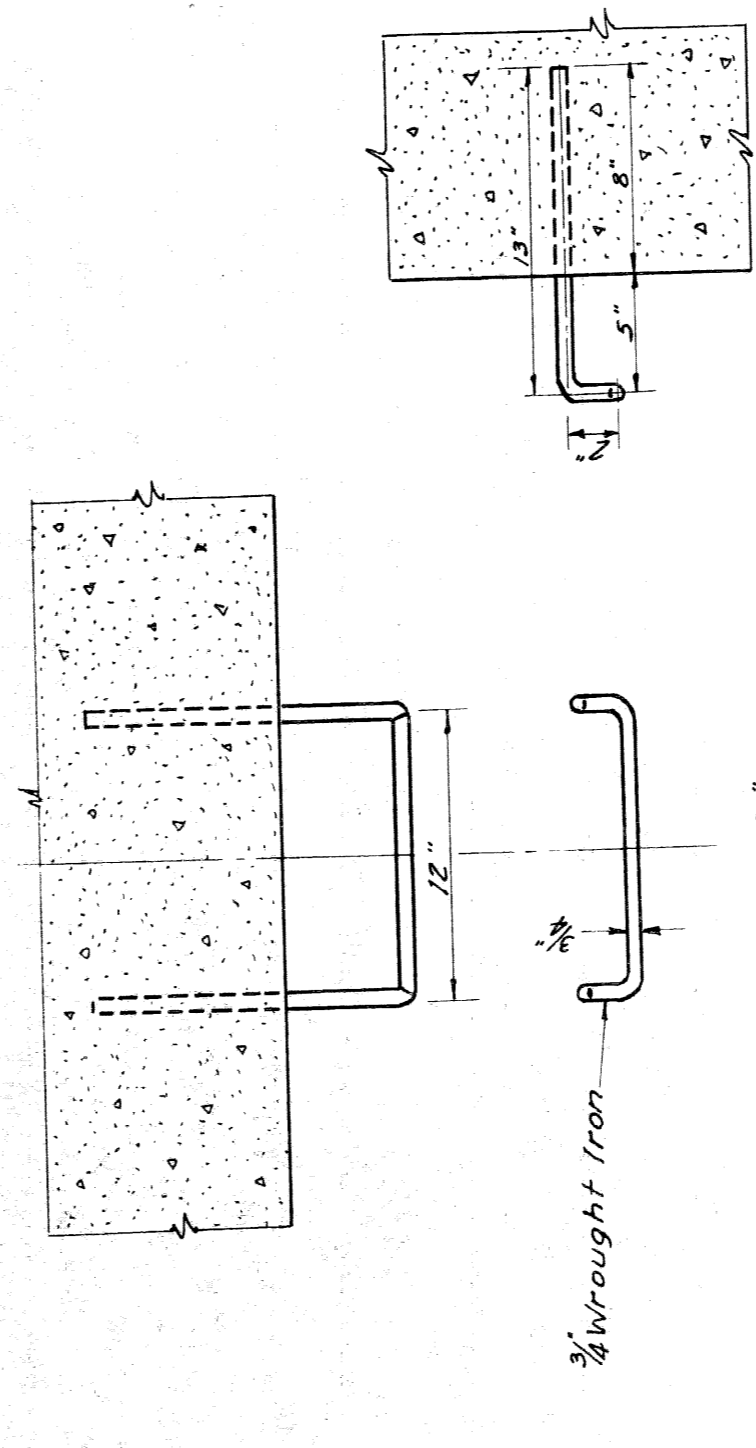


BOTTOM VIEW OF COVER

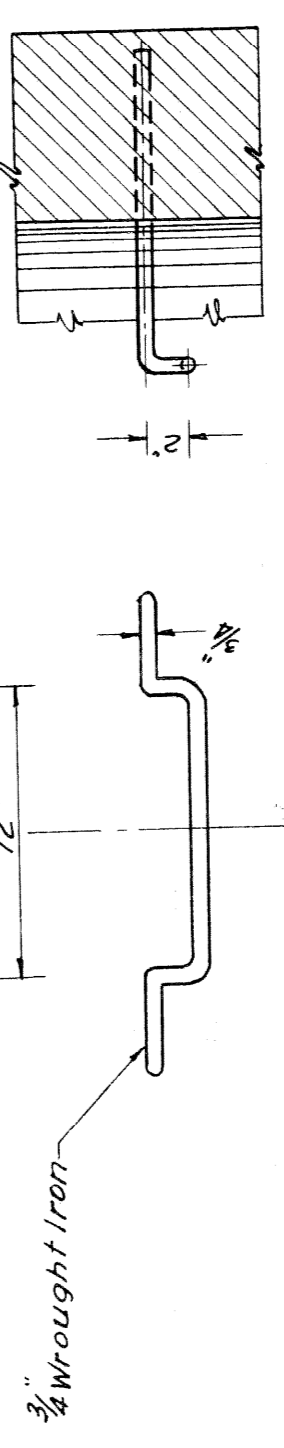
NOTES:-

Frame and cover to be gray iron castings.  
Total weight = 409# (Perf cover)  
Manhole frame = 262#  
Cover (Perf.) = 147#  
Cover (Blank) = 157#

The seating face of the cover and the seal for same on the frame shall be machine finished so that the cover shall have an even bearing on its seat at all points without rocking or tilting.



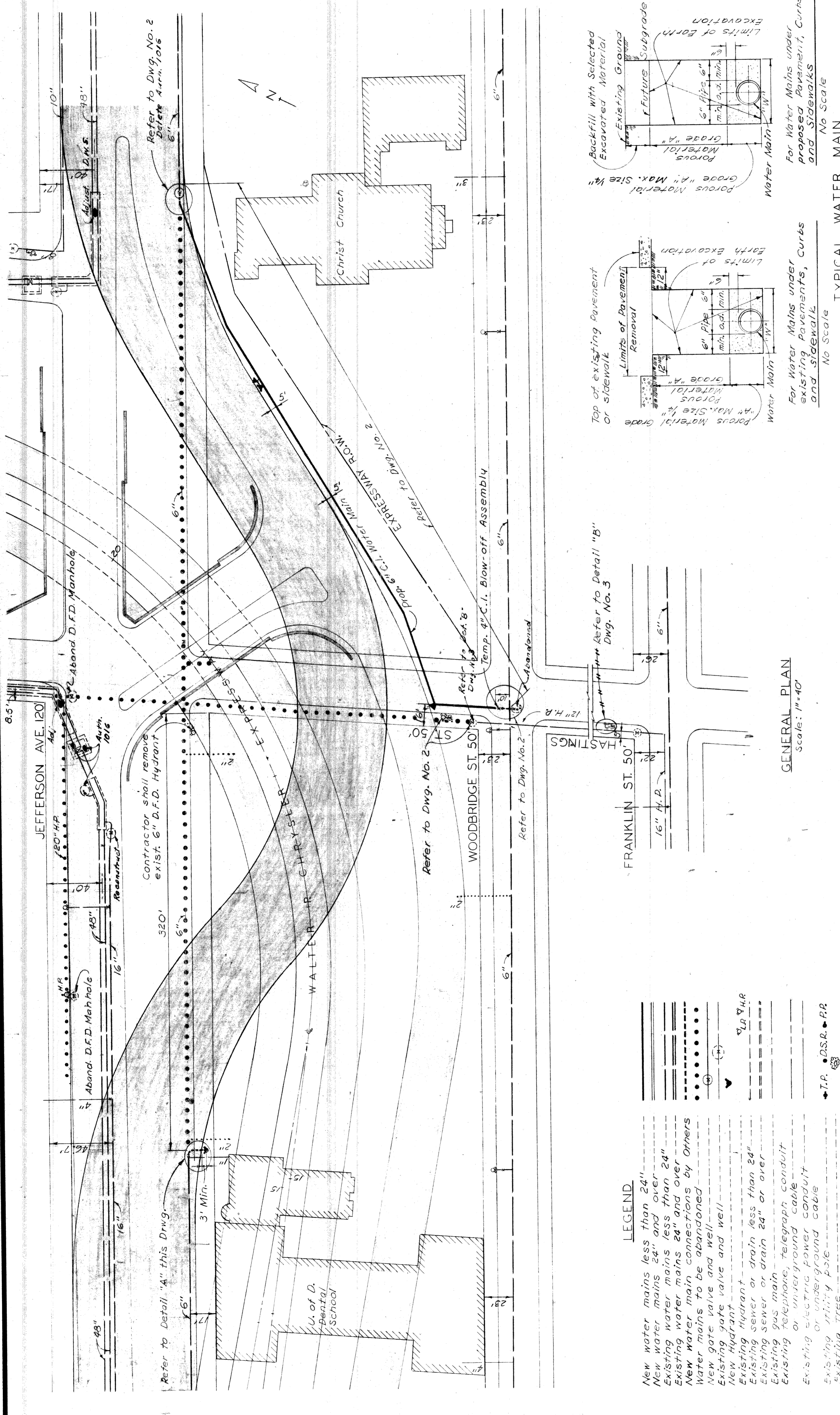
Cast Iron Manhole Steps:  
Cast iron manhole steps shall be 10% DRG as manufactured by the Neenah Foundry Co. or by the Cleveland Foundry Co. or approved equal.



MANHOLE STEP  
SCALE 1 1/2" = 1'

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

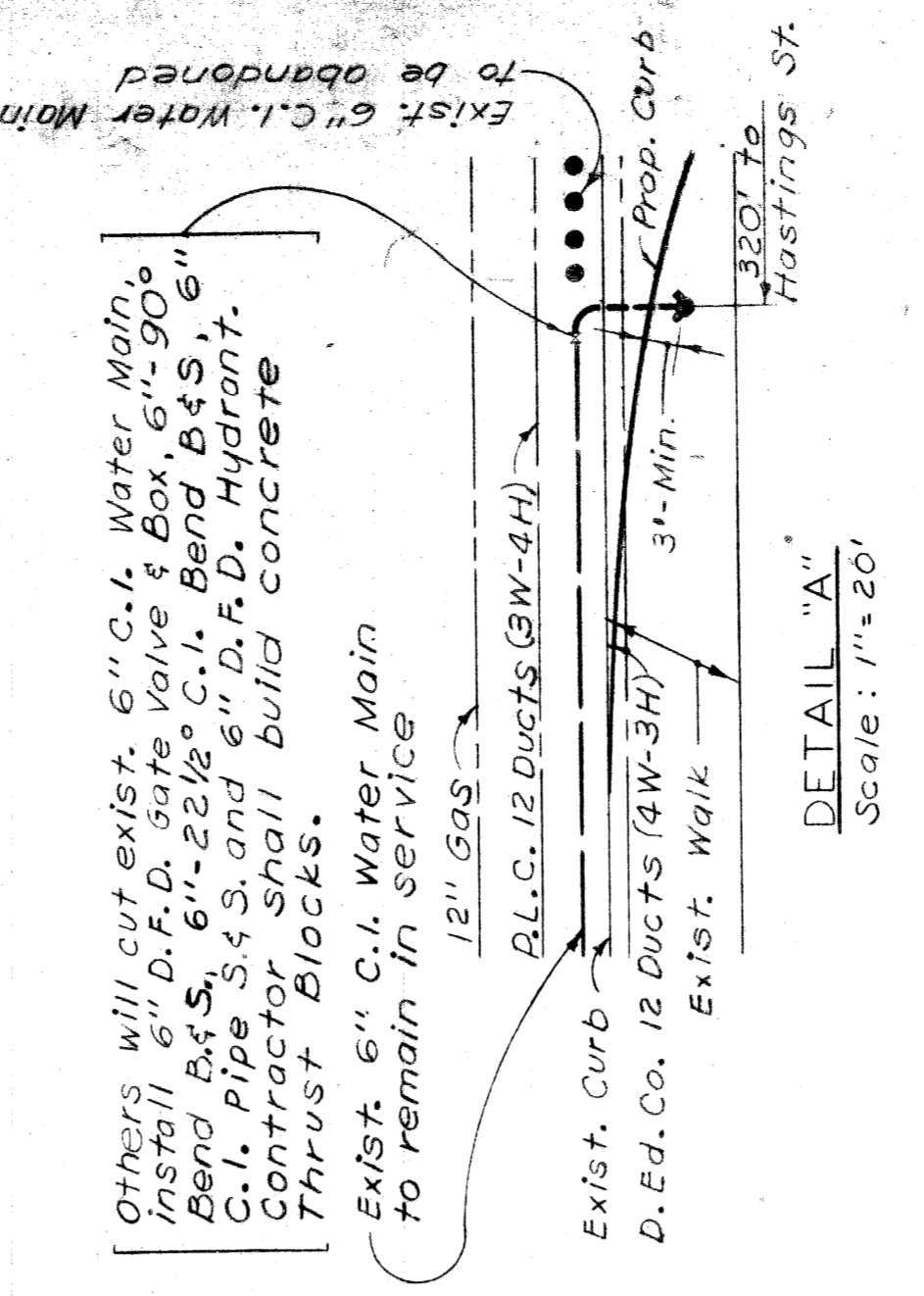




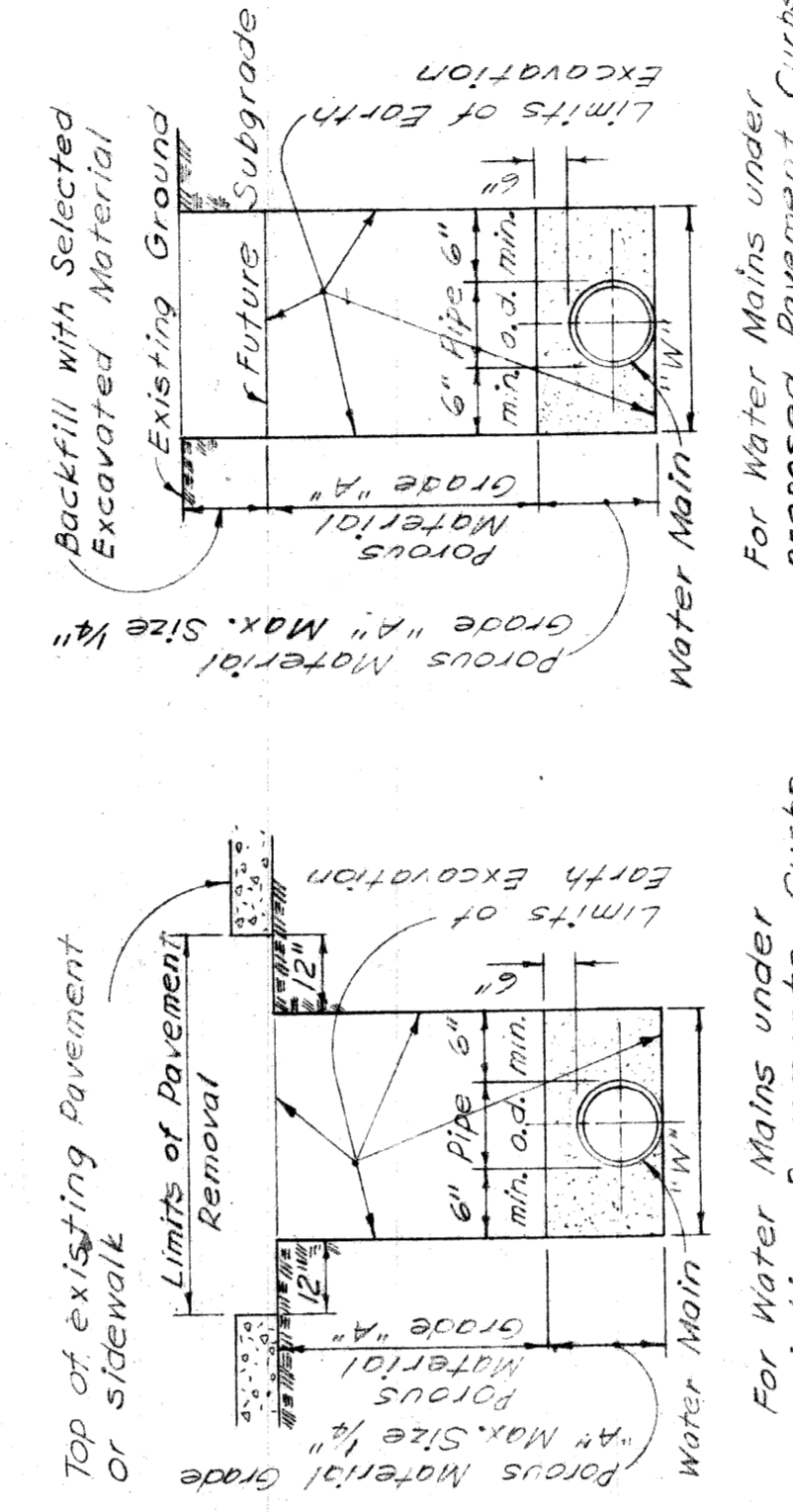
QUANTITIES

ITEM	AMOUNT
Grade "A" Concrete (For Water Main Thrust Blocks)	1 C.Y.
6" C.I. Water Main, Furnished	42 L.F.
Removing Hydrants and Placed	2 Ea.
6" C.I. Water Main, Furnished	451 L.F.
<del>6" Gate Valves, Furnished</del>	<del>0 Ea.</del>
<del>6" Gate Valves &amp; Boxes, Furnished</del>	<del>9 Ea.</del>
6" Fire Hydrants, Furnished	2 Ea.
Water Main Trench for work done by D.W.S.	75 L.F.

Auth.  
10/16  
10/16  
10/16



DETAIL "A"  
Scale: 1"=20'



TYPICAL WATER MAIN TRENCH SECTIONS  
No Scale

GENERAL PLAN  
Scale: 1"=40'

**NOTES**

- The Contractor shall fill all Gate Wells with Porous Material Grade "A". On abandoned water mains to remain in place, remove Gate Well frame and cover and replace the pavement.
- Existing water mains as shown indicate approximate locations only as shown on D.W.S. records and no guarantee is made either as to completeness or accuracy.
- Elevations of existing water mains are not known. Approximate elevations shown on the profiles are based on the assumption of average depth. The grades of the mains are subject to change to suit actual elevations of existing mains.
- Excavation and backfilling for the entire work shall be done by the Contractor, including excavation and backfilling for work to be done by others.
- The Contractor shall furnish all waterworks material required for the entire work, including work indicated on the drawings to be done by others.

Service connections, and their relocation will be made by others. Abandoned water services on existing water mains to remain in place are to be abandoned at the existing water main or reconnected to new water mains are not all shown on the plans.

Other utilities are making alterations to their existing systems in the vicinity of the water main construction shown on the plans. These utilities should be consulted for the latest information regarding the location of their facilities.

Temporary bracing is incidental to pipe laying and shall be installed by the Contractor.

Removal of existing water mains as required for clearance to construct the proposed water mains is incidental to pipe laying.

The location of fire hydrants, as shown, are approximate.

D.F.B. will give exact locations prior to installation.

- LEGEND**
- New water mains less than 24"
  - Existing water mains 24" and over
  - Existing water mains less than 24"
  - New water main connections by Others
  - Water mains to be abandoned
  - New gate valve and well
  - Existing gate valve and well
  - New Hydrant
  - Existing hydrant
  - Existing sewer or drain less than 24"
  - Existing sewer or drain 24" or over
  - Existing gas main
  - Existing telegraph, telegraph conduit
  - Existing or underground cable
  - Existing electric power conduit
  - Existing utility pole
  - Existing tree
  - Existing boulevard light
  - Existing catch basin
  - Existing fire or Police call box
  - Existing traffic signal

CONTROL SECTION 82111-30102  
CITY OF DETROIT  
DEPARTMENT OF WATER SUPPLY  
WALTER R. CHRYSLER EXPRESSWAY  
GENERAL PLAN  
WATER SYSTEM ALTERATIONS  
JEFFERSON-HASTINGS BRIDGE  
CHECKED WAH CORRECT BY *[Signature]* APPROVED *[Signature]*  
DATE 7-7-60 DRAWING NO. 1 OF 3 JOB NO. D-402-10

**MICHIGAN STATE HIGHWAY DEPARTMENT**

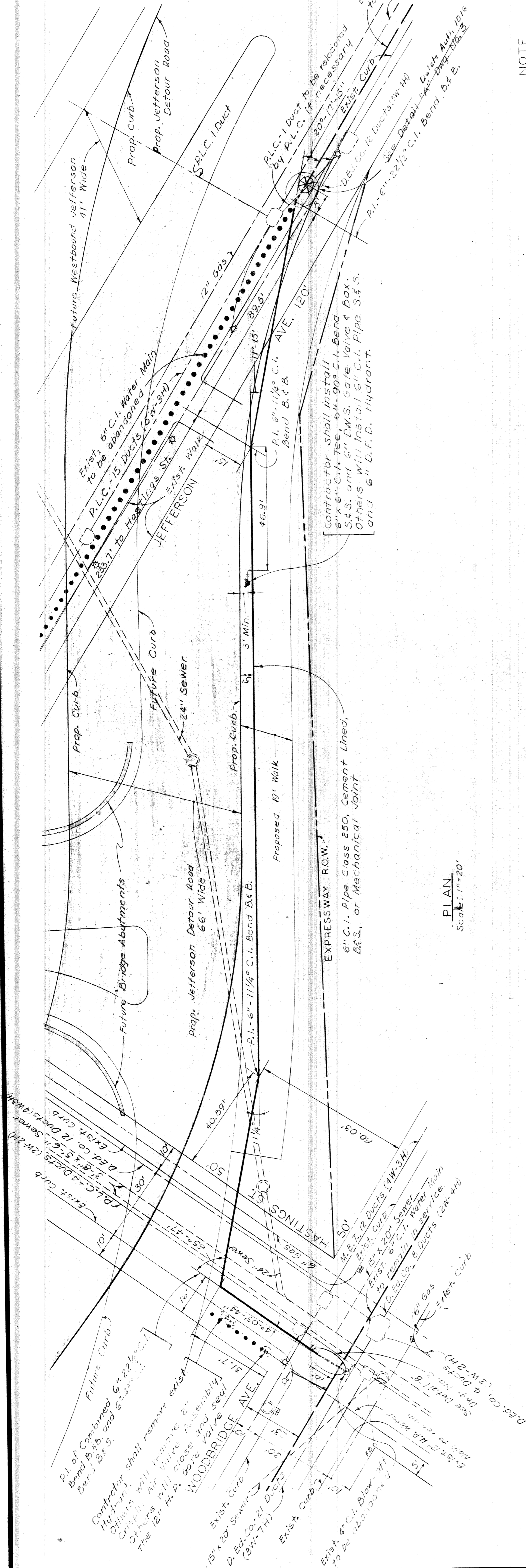
NO.	DATE	DESCRIPTION	BY

REVISIONS

PENTAD ENGINEERS, INC.  
CONSULTING ENGINEERS  
806 PARK AVE. BUILDING  
DETROIT 26, MICHIGAN

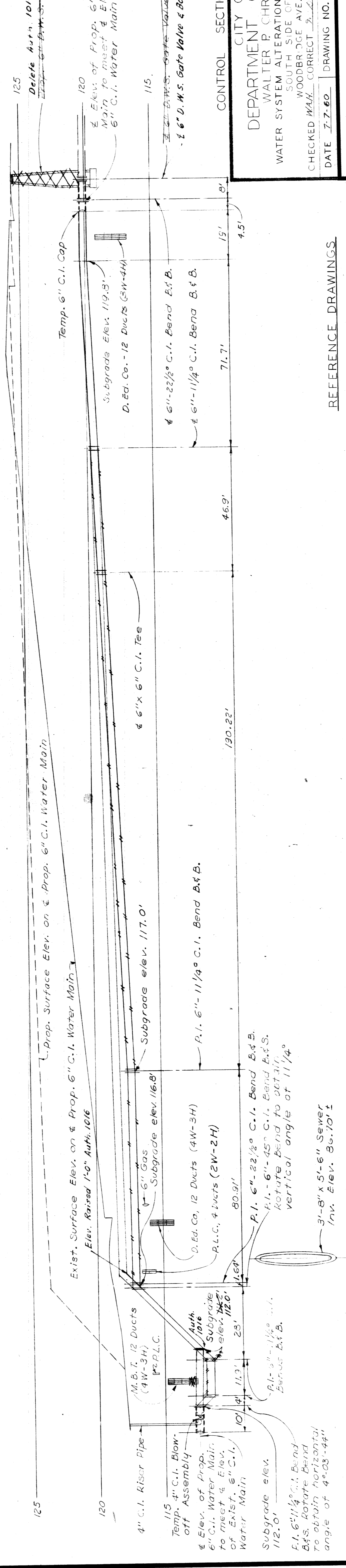
DATE	BY	CHECKED BY	DATE
5-19-60	J.R.C.	R.M.	6-8-60
7-1-60	J.R.C.	J.W.	7-1-60

82111-C14



**NOTE**  
 Prop. 6" C.I. Water Main shall be installed just prior to or immediately after the fill for the temporary road is placed.

**PLAN**  
 Scale: 1"=20'



**PROFILE**  
 Vert: 1"=4'  
 Hor: 1"=20'

**REFERENCE DRAWINGS**  
 General Plan --- Drawing No. 1  
 Miscellaneous Details --- Drawing No. 3

CONTROL SECTION 82111-30102  
 CITY OF DETROIT  
 DEPARTMENT OF WATER SUPPLY  
 WALTER P. CHRYSLER EXPRESSWAY BRIDGE  
 WATER SYSTEM ALTERATIONS JEFFERSON HASTINGS BRIDGE  
 SOUTH SIDE OF EXPRESSWAY FROM  
 WOODBRIDGE AVE. TO JEFFERSON AVE.  
 CHECKED *M.A.K.* CORRECT *J.L.L.* APPROVED *W.C.L.*

DATE 7-7-60 DRAWING NO. 2 OF 3 JOB NO. D-402-10

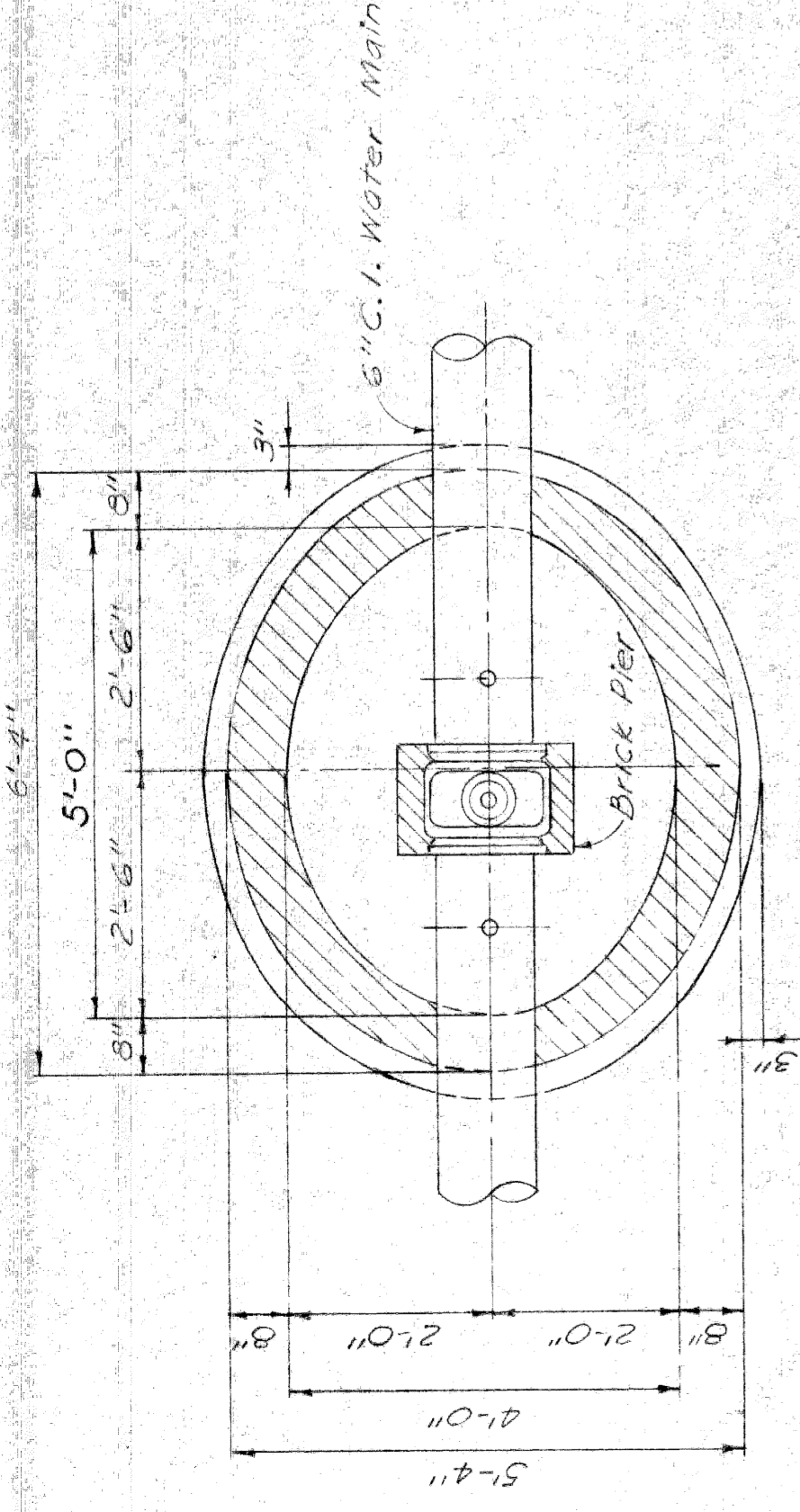
MICHIGAN STATE HIGHWAY DEPARTMENT

NO.	REVISIONS	DATE	BY

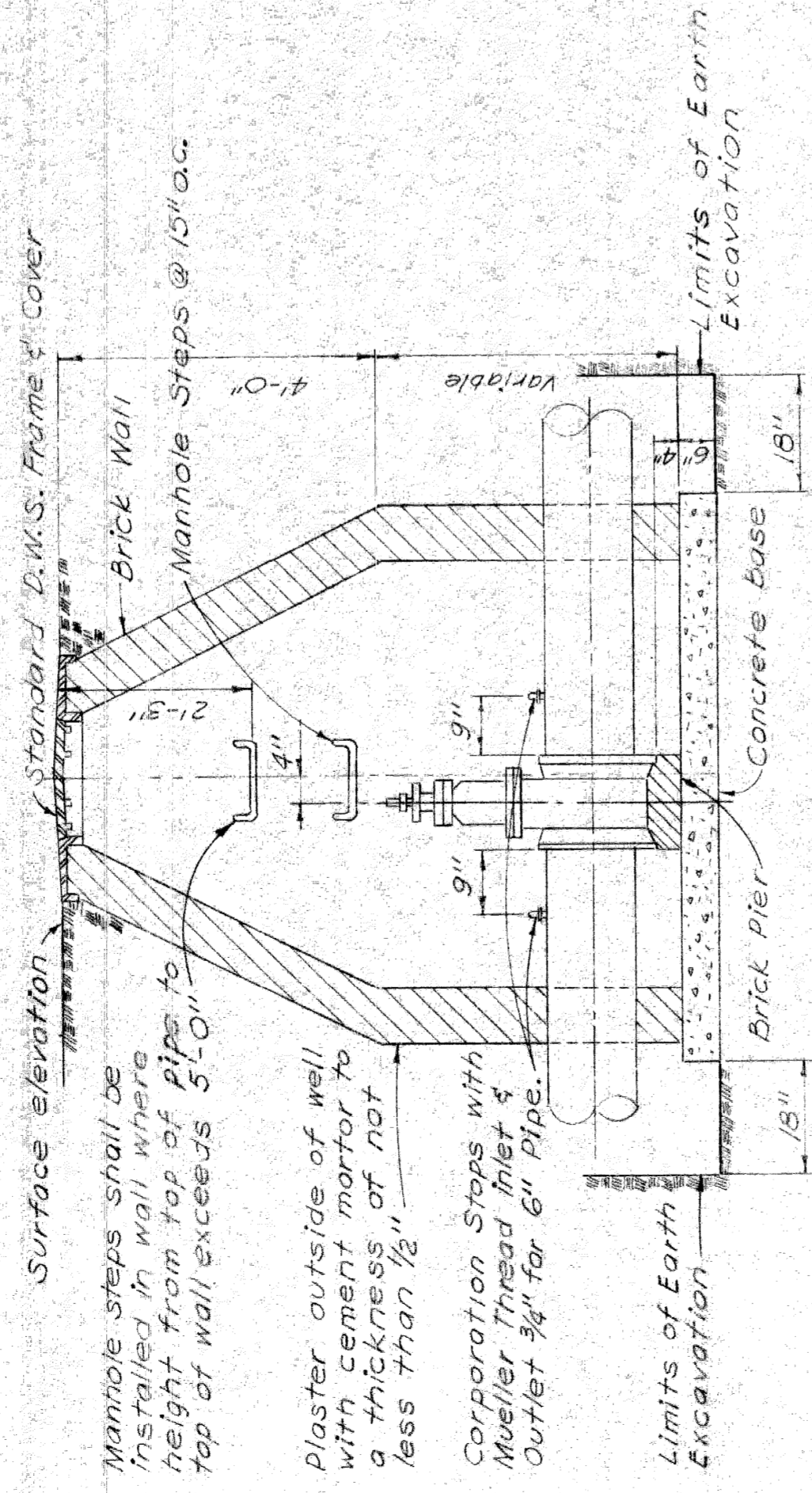
PENTAD ENGINEERS, INC.  
 CONSULTING ENGINEERS  
 606 PARK AVE. BUILDING  
 DETROIT 26, MICHIGAN

DATE	BY	CHECKED BY
5-27-60	J.R.C.	P.M.
6-15-60	J.R.C.	J.K.
7-7-60	J.R.C.	J.K.

82111-C14  
 SHEET 26 OF 26



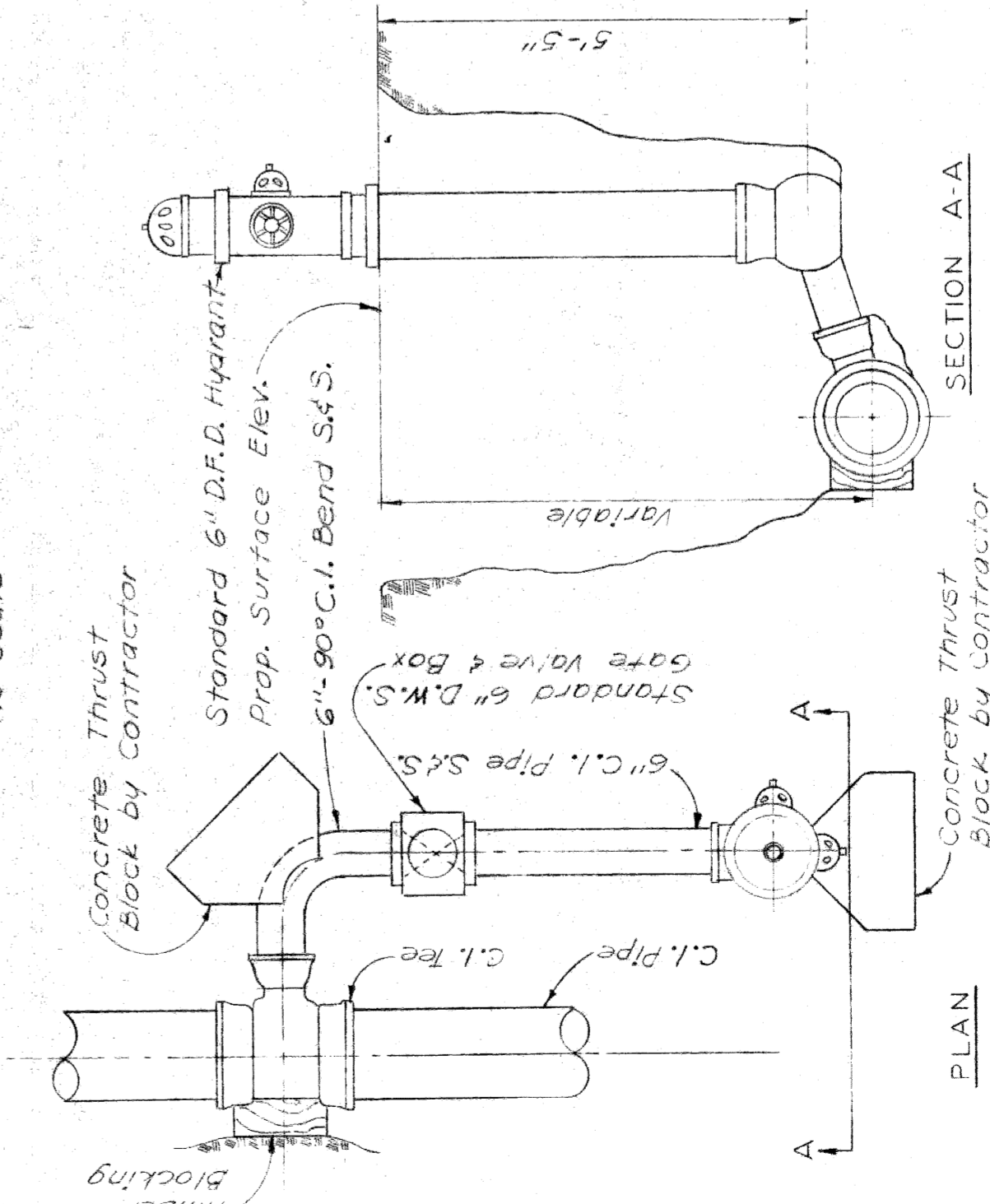
PLAN



SECTION THROUGH GATE WELL

DETAIL OF STANDARD 6" GATE WELL

No Scale



PLAN

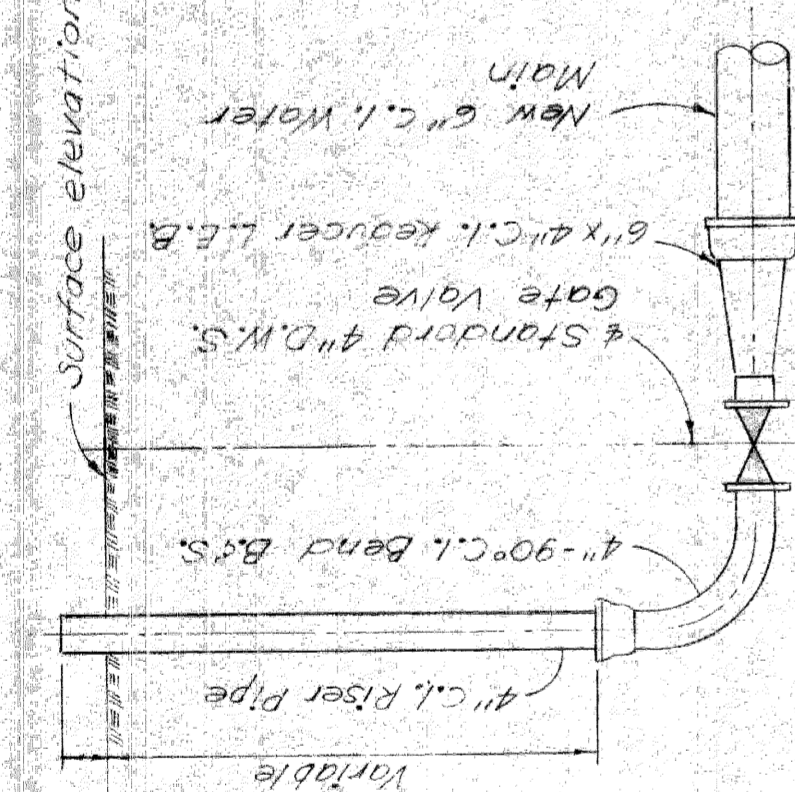
SECTION A-A

No Scale

NOTE  
From the new main the Contractor shall install the tee, the 6'-0" C.I. Bend and 6" D.W.S. Gate Valve & Box. The 6" C.I. Pipe and Hydrant will be installed by Others. From any existing main the complete Hydrant installation will be done by Others. The Hydrant to be a minimum of 3' behind the curb.

DETAIL OF 6" HYDRANT INSTALLATION

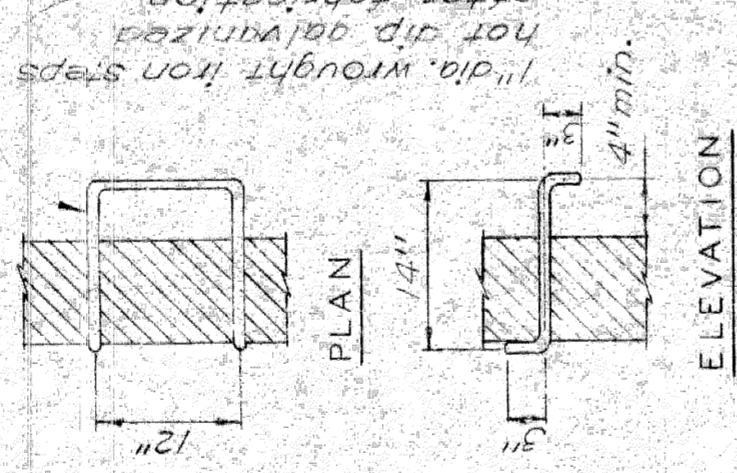
No Scale



ELEVATION

DETAIL OF 4" C.I. BLOW OFF

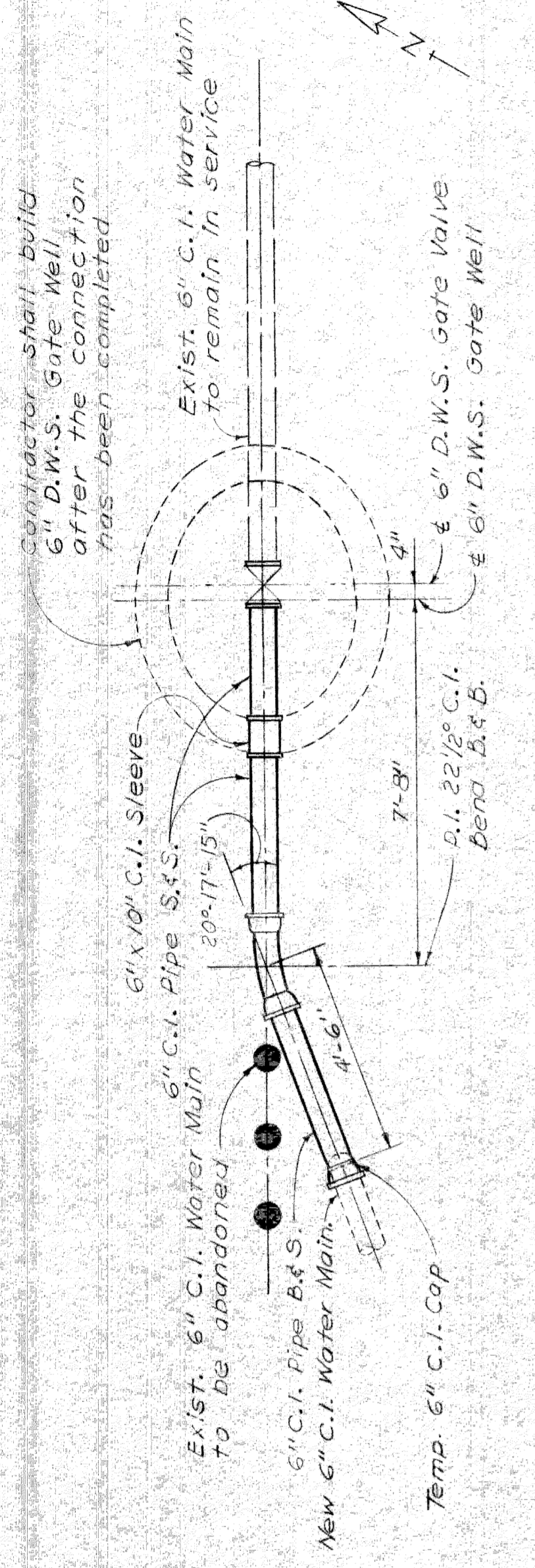
No Scale



ELEVATION

DETAIL OF MANHOLE STEPS

No Scale



SECTION E-E

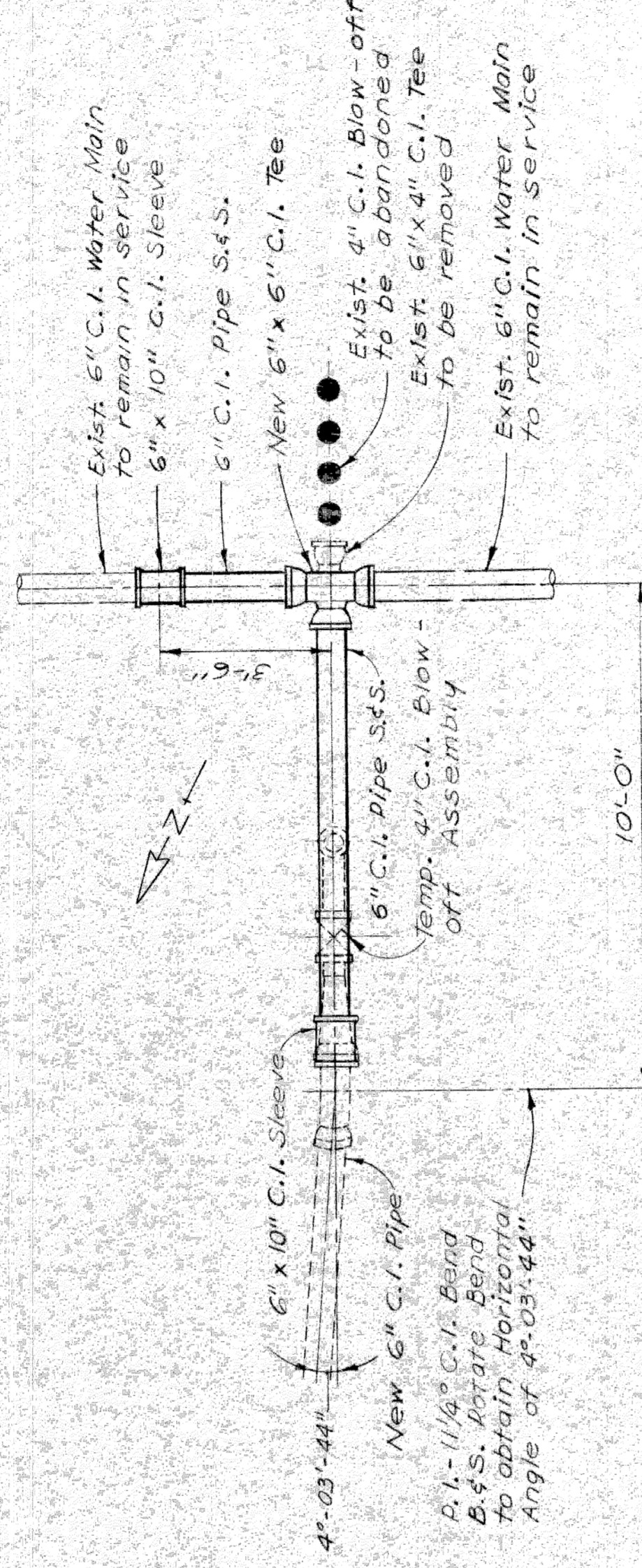
THRUST BLOCK FOR 6" HYDRANT BEND

No Scale

Others will cut exist. 6" C.I. Water Main in Jefferson Ave., remove temporary 6" C.I. Cap. Install the 6" D.W.S. Gate Valve and all 6" C.I. Pipe and Fittings required to make the connection as shown after the new 6" C.I. Water Main has been tested.

DETAIL "A" FROM DRAWING NO.2

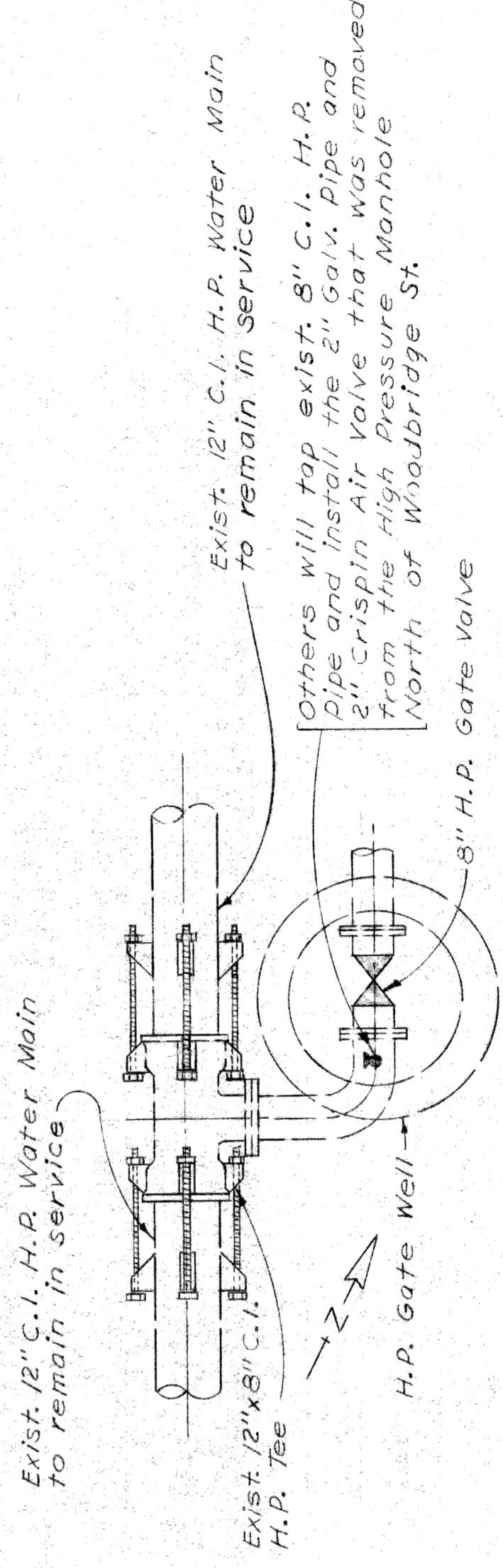
Scale: 3/8"=1'-0"



Others will cut exist. 6" C.I. Water Main in Woodbridge St., remove Temp. 4" C.I. Blow-off Assembly and 6' x 4" C.I. Tee and install all 6" C.I. Pipe and Fittings required to make the connection as shown after the new 6" C.I. Water Main is ready for service.

DETAIL "B" FROM DRAWING NO.2

Scale: 3/8"=1'-0"



ELEVATION

THRUST BLOCK FOR 6" HYDRANT

No Scale

DETAIL "B" FROM DRAWING NO.1

Scale: 3/8"=1'-0"

NOTE  
From the existing main, Others will install the 6" D.W.S. Gate Valve & Box, 6'-11-90° C.I. Bend B&S, 6'-22 1/2" C.I. Bend B&S, 6" C.I. Pipe S&S, and Hydrant. The Hydrant to be a minimum of 3' behind the curb.

DETAIL OF 6" HYDRANT INSTALLATION

No Scale

CONTROL SECTION 82III.30102

CITY OF DETROIT  
DEPARTMENT OF WATER SUPPLY  
WALTER P. CHRYSLER EXPRESSWAY  
WATER SYSTEM ALTERATIONS JEFFERSON-HASTINGS BRIDGE  
MISCELLANEOUS DETAILS

CHECKED W.A.H. CORRECT *W.A.H.* APPROVED *W.A.H.*

DATE 7-7-60 DRAWING NO. 3 OF 3 JOB NO. D-402-10

MICHIGAN STATE HIGHWAY DEPARTMENT

NO.	REVISIONS	DATE	BY

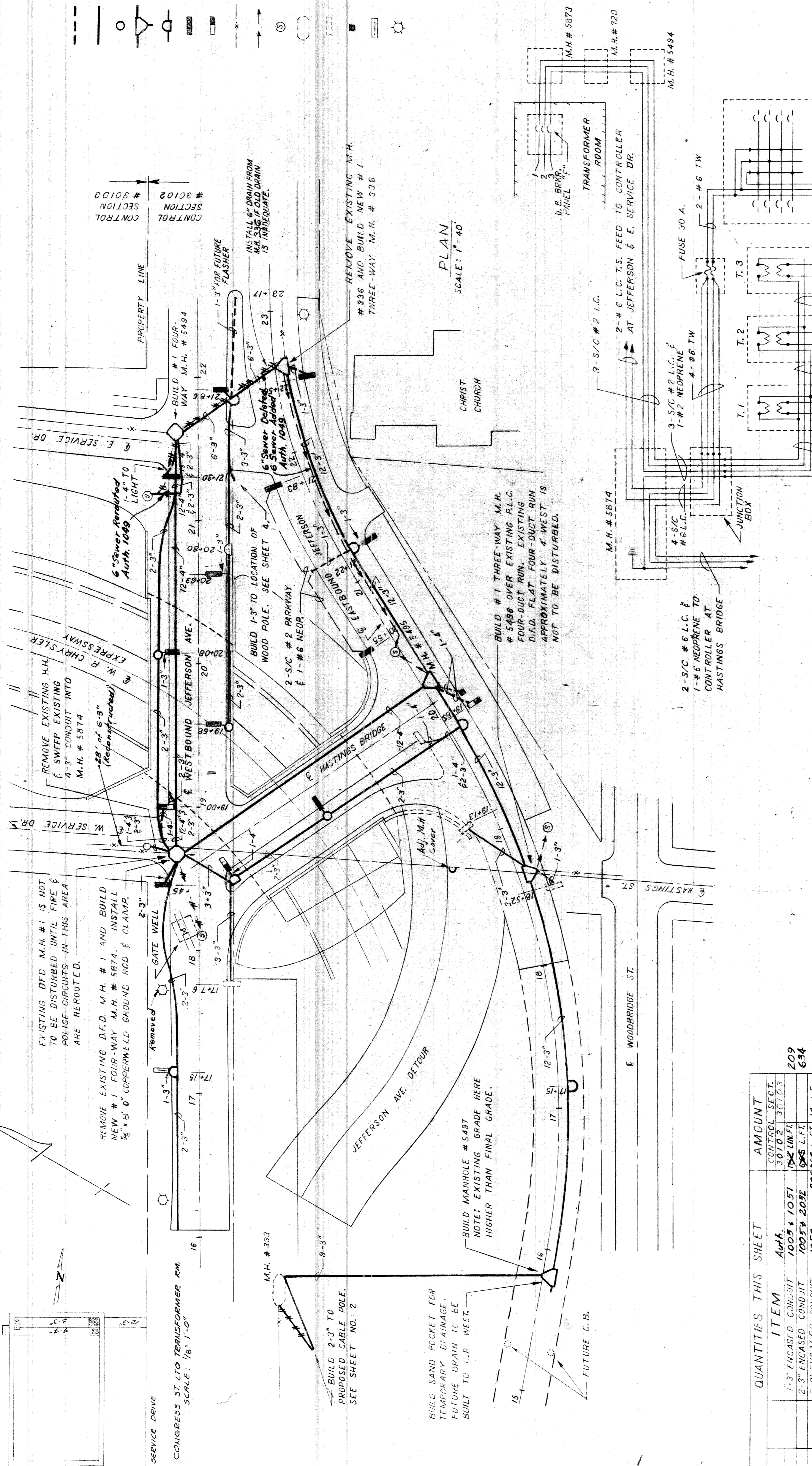
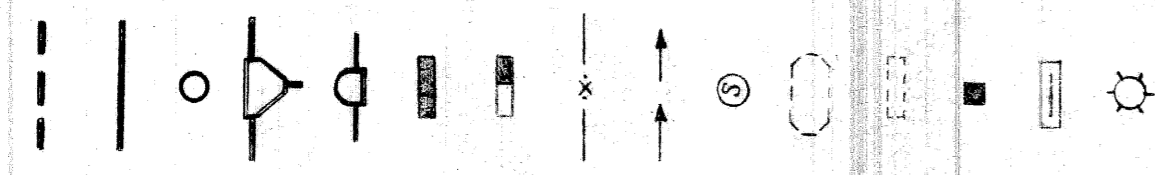
SHEET 27 OF 82III-C14

PENTAD ENGINEERS, INC.  
CONSULTING ENGINEERS  
806 PARK AVE. BUILDING  
DETROIT 26, MICHIGAN

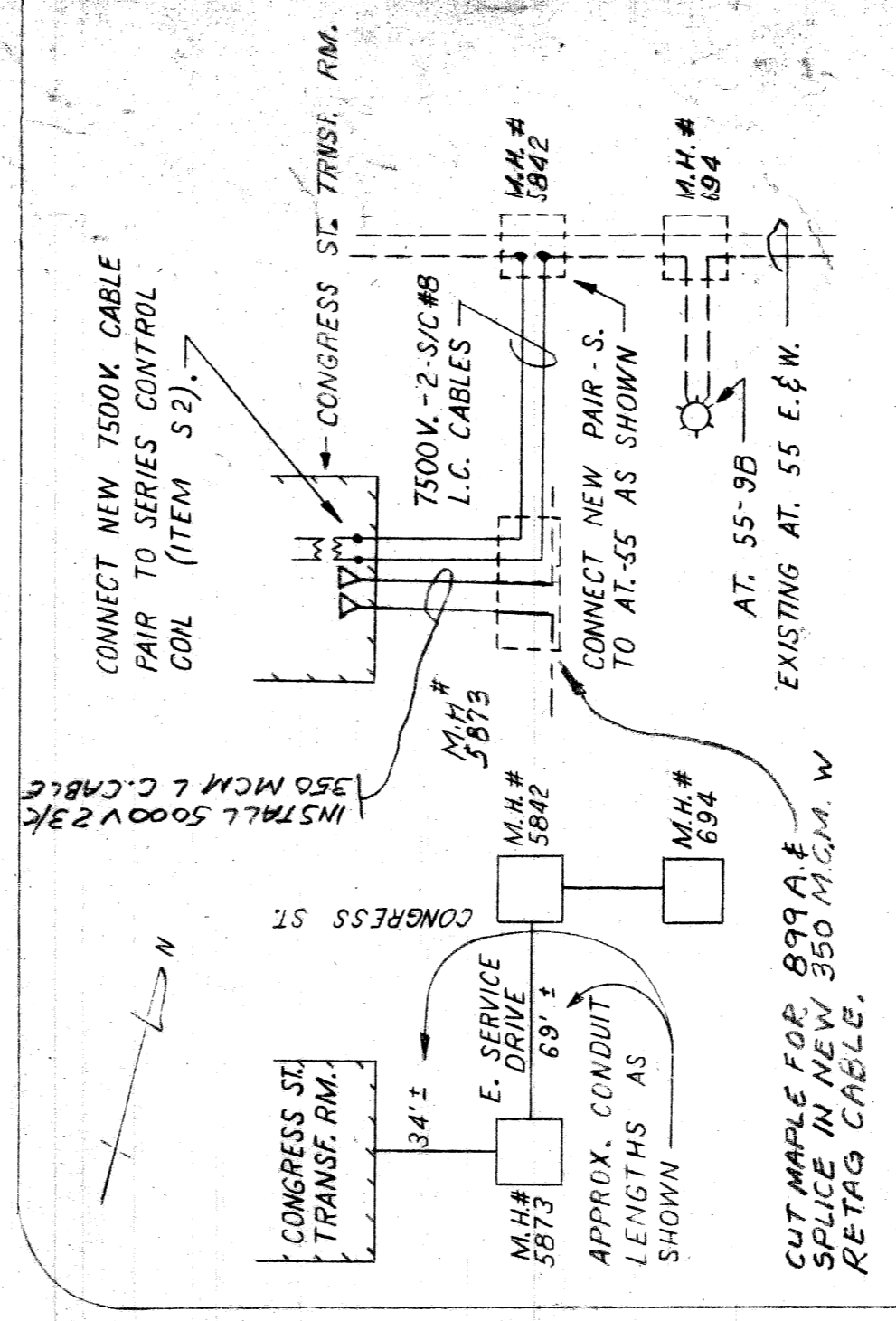
DRAWN BY J.R.C. E10-60  
CHECKED BY R.W. E15-60  
DATE 7-11-60

**LEGEND**

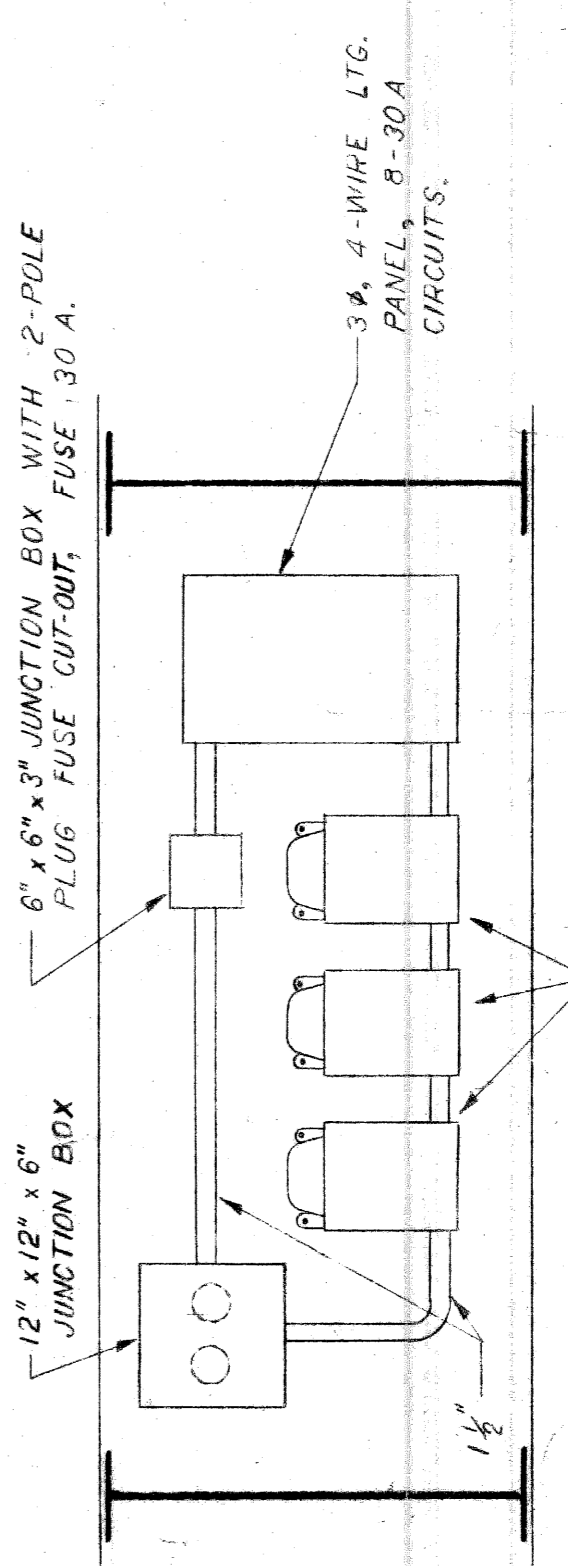
- PROPOSED SINGLE DUCT RUN - SIZE AS INDICATED.
- PROPOSED MULTIPLE DUCT RUN - NUMBER & SIZE AS INDICATED.
- PROPOSED SHALLOW TYPE HANDHOLE.
- PROPOSED MANHOLE - (THREE-WAY SHOWN).
- PROPOSED TYPE "D" HANDHOLE.
- PROPOSED U.G. FLUORESCENT ANCHOR BASE ST. L.T.G. UNIT; 801A-7H300-8 FT. ARM.
- PROPOSED U.G. FLUORESCENT ANCHOR BASE COMBINATION ST. L.T.G. UNIT; 801A-7H300-8 FT. ARM.
- EXISTING P.L.C. DUCT RUN.
- 6" SEWER.
- SEWER MANHOLE.
- EXISTING MANHOLE (TWO-WAY SHOWN).
- PROPOSED LOCATION OF FUTURE U.G. ST. L.T.G. UNIT.
- TRAFFIC SIGNAL CONTROLLER FOUNDATION.
- PROPOSED U.G. ANCHOR BASE ST. L.T.G. STD. ONLY; 801A-7H400-8 FT. ARM.
- EXISTING U.G. ST. L.T.G. UNIT.



PLAN SCALE: 1" = 40'



WIRING DIAGRAM - UNDERBRIDGE LTG. EQUIPMENT



UNDERBRIDGE LTG. PANEL & TRANSFORMER MOUNTING DETAIL

QUANTITIES THIS SHEET

ITEM	AMOUNT	CONTROL SECT.
1-3 ENCASED CONDUIT 1005 & 1051	1005 & 1051	30103
2-3 ENCASED CONDUIT 1005 & 2051	1005 & 2051	30103
3-3 ENCASED CONDUIT 1053	208	30103
4-3 ENCASED CONDUIT 1005 & 1054	71	30103
5-3 ENCASED CONDUIT 1005 & 1055	108	30103
6-3 ENCASED CONDUIT 1057	634	30103
7-4 ENCASED CONDUIT 1057	174	30103
8-4 ENCASED CONDUIT 1057	64	30103
9-4 ENCASED CONDUIT 1057	14	30103
#1 THREE-WAY MANHOLE	4	EACH
STREET TYPE "D" HANDHOLE	4	EACH
SIDEWALK TYPE "D" HANDHOLE	3	EACH
6" SEWER	1005 & 1049	369
U.S. FLUORESCENT ANCHOR BASE ST. L.T.G.	9	EACH
U.S. FLUORESCENT ANCHOR BASE ST. L.T.G. UNIT - FURNISH & INSTALL	9	EACH
U.S. FLUORESCENT ANCHOR BASE ST. L.T.G. UNIT - FURNISH & INSTALL ON BRIDGE	3	EACH
U.S. FLUORESCENT ANCHOR BASE COMBINATION ST. L.T.G. UNIT - FURNISH & INSTALL	3	EACH
U.S. FLUORESCENT ANCHOR BASE ST. L.T.G. STD. ON NEW ENCL. - FURNISH & INSTALL	0	EACH
600 V., TWO S/C #2 PARALLEL CABLES & INSTALL	140	L.F.
600 V., FOUR S/C #2 PARALLEL CABLES & INSTALL	35	L.F.
600 V., TWO S/C #7 LEAD COVERED CABLES & INSTALL	509	L.F.
600 V., TWO S/C #7 LEAD COVERED CABLES - FURNISH & INSTALL	346	L.F.
600 V., THREE S/C #2 LEAD COVERED CABLES - FURNISH & INSTALL	325	L.F.

QUANTITIES THIS SHEET

ITEM	AMOUNT	CONTROL SECT.
600 V., THREE S/C #2 LEAD COVERED CABLES & ONE #2 NEOPRENE - FURNISH & INSTALL	905	1090
600 V., FOUR S/C #2 LEAD COVERED CABLES & ONE #6 NEOPRENE - FURNISH & INSTALL	120	L.F.
600 V., TWO S/C #6 LEAD COVERED CABLES - FURNISH & INSTALL	498	L.F.
600 V., TWO S/C #6 LEAD COVERED CABLES - FURNISH & INSTALL	232	L.F.
600 V., ONE #2 #14 LEAD COVERED CABLE - FURNISH & INSTALL	1794	L.F.
5000 V., ONE 3/C #240 LEAD COVERED CABLE - FURNISH & INSTALL	1786	L.F.
1500 V., ONE 3/C #2 LEAD COVERED CABLE - FURNISH & INSTALL	1786	L.F.
1500 V., TWO S/C #8 LEAD COVERED CABLES - FURNISH & INSTALL	1983	L.F.
ST. L.T.G. CABLES - FURNISH & INSTALL	2046	L.F.
REMOVING MANHOLE	2	EACH
UNDERBRIDGE LIGHTING EQUIPMENT - FURNISH & INSTALL	LUMP	SUM
600 V., FOUR S/C #6 LEAD COVERED CABLES - FURNISH & INSTALL	47	L.F.
600 V., TWO S/C #2 LEAD COVERED CABLES - FURNISH & INSTALL	258	L.F.
4-4" Encased Conduit	14	L.F.
Adjust Handhole Covers	2	EACH

QUANTITIES THIS SHEET

WIRING DIAGRAM - UNDERBRIDGE LTG. EQUIPMENT

UNDERBRIDGE LTG. PANEL & TRANSFORMER MOUNTING DETAIL

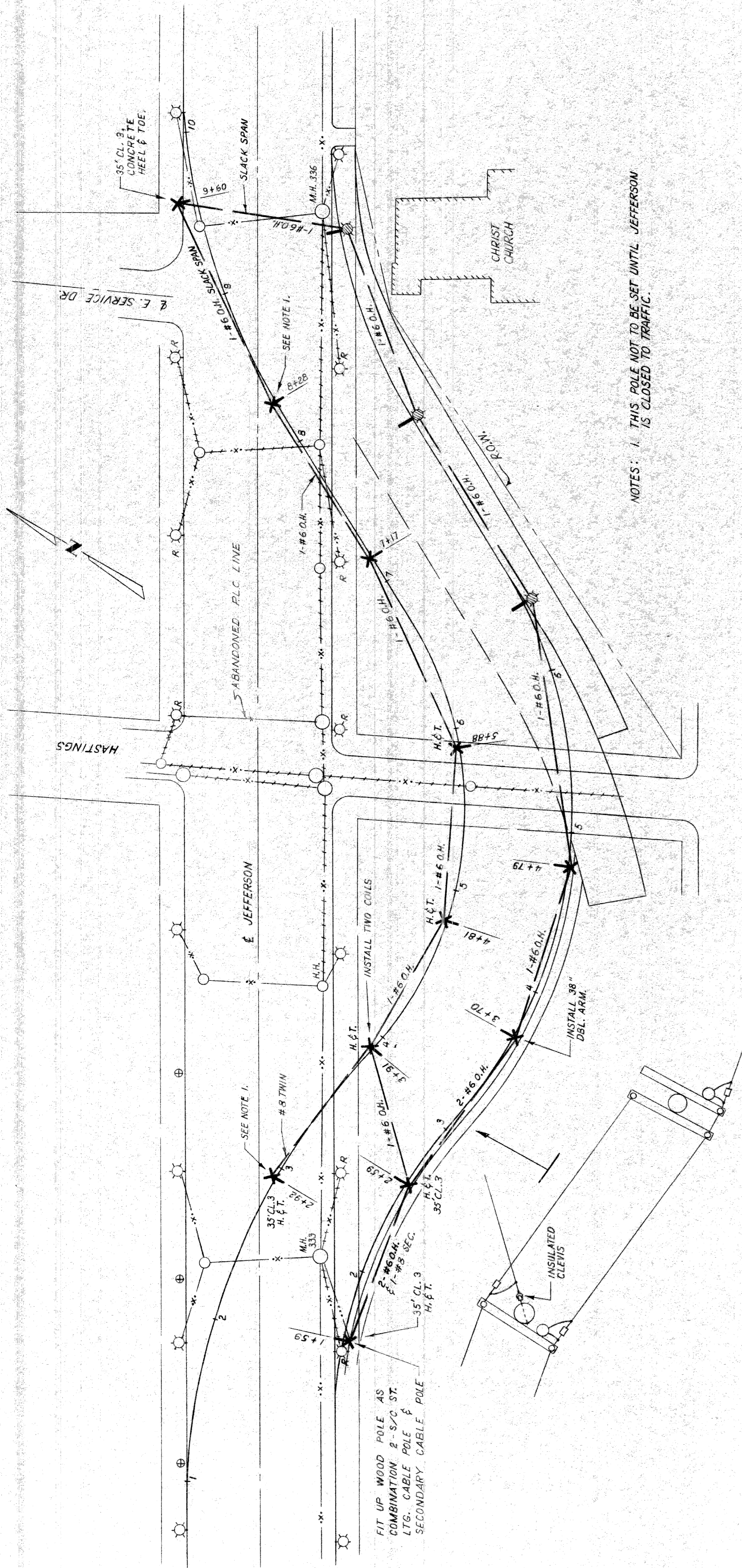
CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
GENERAL PLAN  
JEFFERSON - HASTINGS BRIDGE  
MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

DRAWN BY DE  
CHECKED BY  
APPROVED BY

FILE NO. 58-6  
SHEET NO. 1 OF 10  
DATE 6-23-60

NO.	REVISIONS	DATE	BY

8211-C14



NOTES: 1. THIS POLE NOT TO BE SET UNTIL JEFFERSON IS CLOSED TO TRAFFIC.

PLAN  
SCALE: 1" = 40'

**LEGEND**

- ☉ EXISTING U.G. ST. LIGHTING UNIT
- ☉ EXISTING U.G. ST. L.T.G. UNIT TO BE REMOVED BY OTHERS.
- ☉ INSTALL U.G. FLUORESCENT ANCHOR BASE ST. L.T.G. STD. AND FORM 94 LUMINAIRE, 101/5 KL. O.H. COIL & 15 KL. LAMP.
- ✕ INSTALL 35' CL. 4" WOOD POLE - UNLESS OTHERWISE NOTED. HEEL & TOE OR MAKE SELF-SUPPORTING AS NOTED.
- ✕ INSTALL FORM 94 O.H. L.T.G. UNIT ON 6' BRACKET ARM, 101/5 KL. O.H. COIL & 15 KL. LAMP.
- INSTALL O.H. WIRE - NO. & SIZE AS INDICATED
- EXISTING P.L.C. CONDUIT
- EXISTING P.L.C. CONDUIT TO BE ABANDONED.
- EXISTING MANHOLE.
- EXISTING HANDHOLE.
- ⊕ CONDUIT BUILT ELSEWHERE ON THIS CONTRACT.
- ⊕ EXISTING D.S.R. STEEL POLE.

QUANTITIES THIS SHEET	ITEM	AMOUNT
	O.H. ST. L.T.G. UNIT (FORM 94) - FURN. & INST. ON WOOD POLE.	4 EA.
	O.H. ST. L.T.G. UNIT (FORM 94) - (LESS BRACKET ARM) - FURN. & INST. ON U.G. ST. L.T.G. STD. AND LATER REMOVE.	3 EA.
	O.H. ST. L.T.G. UNIT (FORM 94) - FURNISH & INSTALL ON WOOD POLE AND LATER REMOVE.	7 EA.
	1-#6 OVERHEAD LINE - FURNISH & INSTALL	1280 L.F.
	2-#6 OVERHEAD LINES - FURNISH & INSTALL	110 L.F.
	REMOVING POST FOUNDATIONS.	4 EA.
	ABANDONING HANDHOLES	3 EA.
	FIT UP WOOD POLE AS COMBINATION 2-S/2 ST. L.T.G. C.P. AND SEC. C.P.	1 EA.
	2-#6 O.H. & 1-#8 TWIN SEC. - FURNISH & INSTALL	100 L.F.
	REMOVING WOOD POLES	6 EA.
	REMOVING 1-#6 O.H. LINE.	1280 L.F.
	35' CLASS 3 WOOD POLE - FURNISH & INSTALL	4 EA.
	35' CLASS 4 WOOD POLE - FURNISH & INSTALL	7 EA.

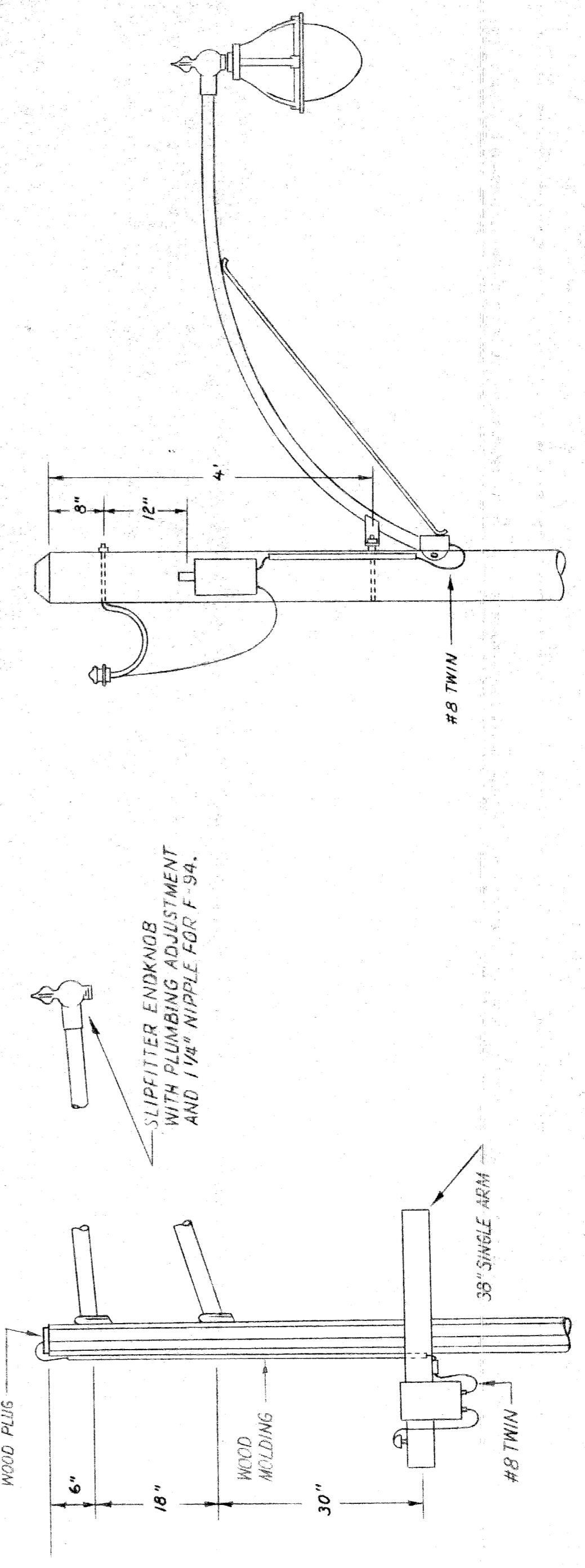
CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION

DETOUR LIGHTING  
JEFFERSON-HASTINGS BRIDGE

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

DRAWN BY DE  
CHECKED BY  
APPROVED BY  
DATE 6-28-60

FILE NO. 58-6  
SHEET NO. 2 OF 10

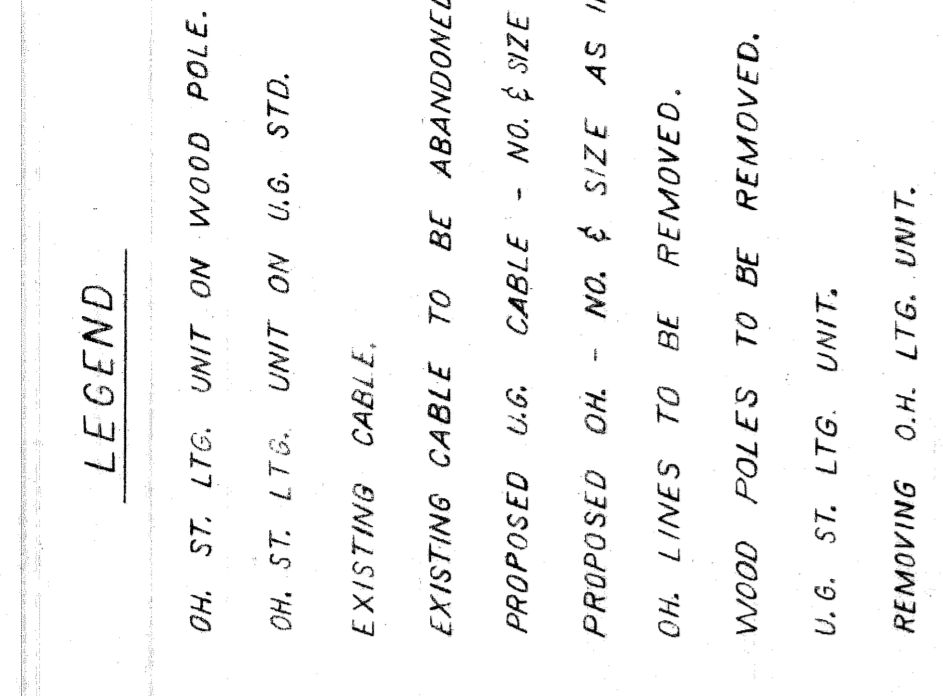


TYPICAL INSTALLATION OF O.H. L.T.G. UNIT ON WOOD POLE

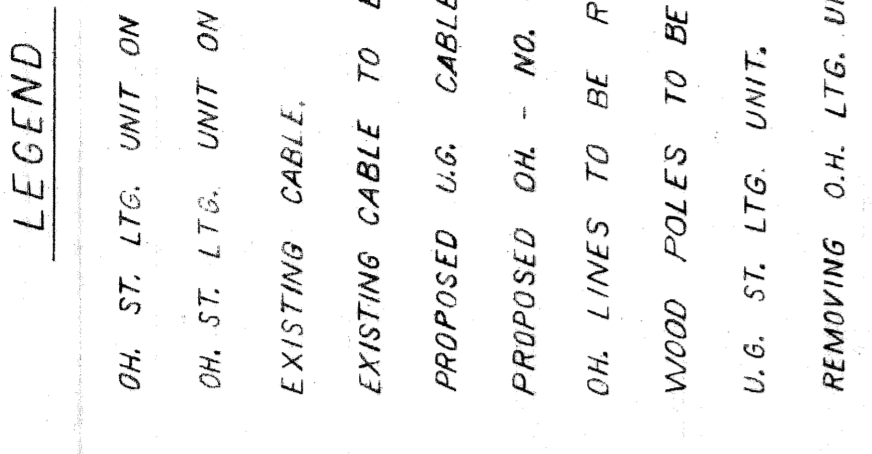
TYPICAL INSTALLATION OF O.H. L.T.G. UNIT ON U.G. ST. LIGHTING STD.

NO.	REVISIONS	DESCRIPTION	DATE	BY

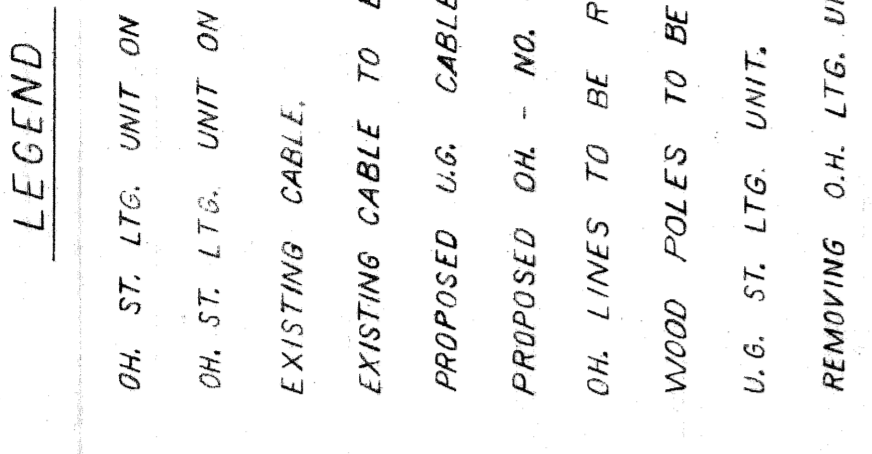
82111-C14



FIRST STAGE - O.H. DETOUR LIGHTING



SECOND STAGE - O.H. DETOUR LIGHTING

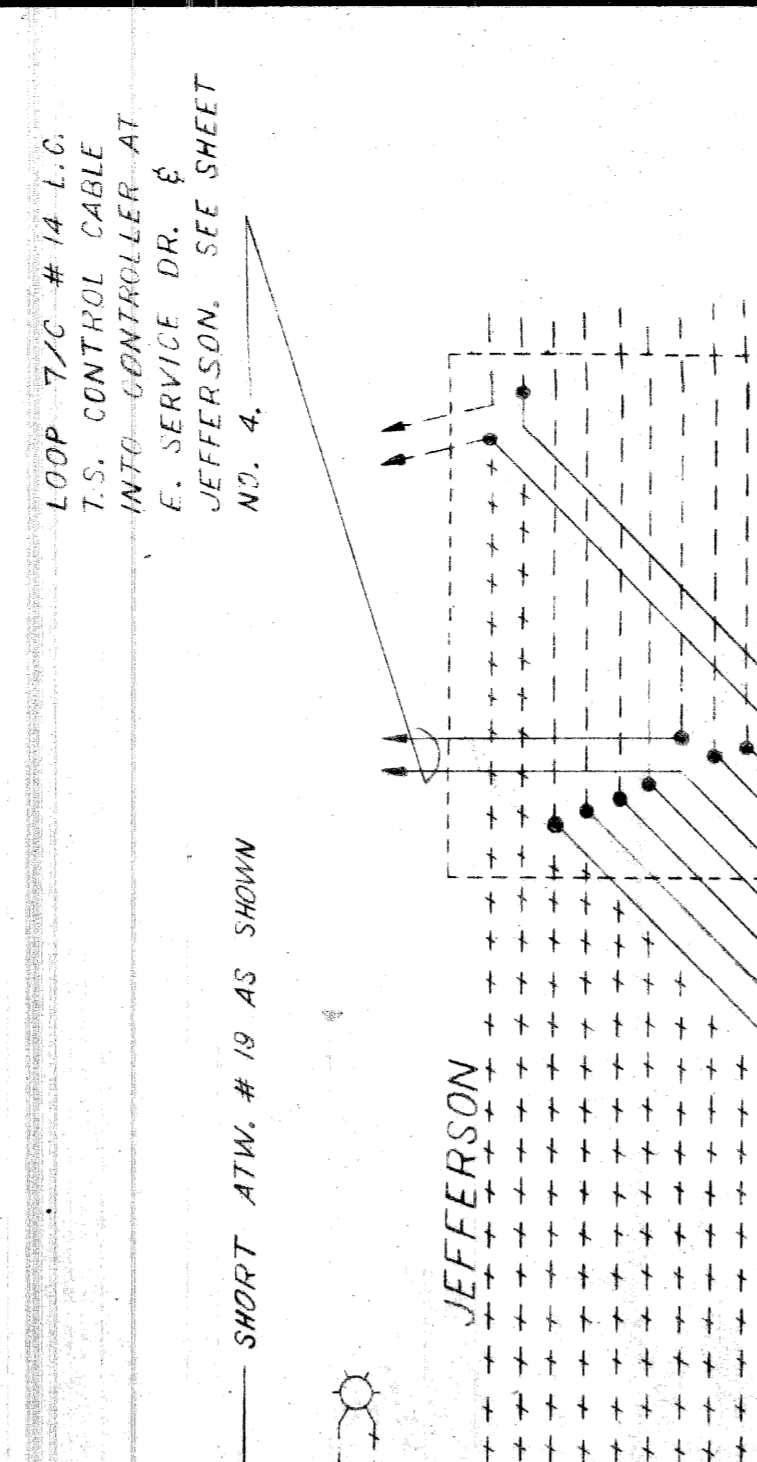


WOOD POLE ONLY TO REMAIN ON N.E. CORNER OF JEFFERSON & E. SERVICE DR. (SEE I.S. LAYOUT ON SHEET NO. 4.)

WOOD POLES TO BE REMOVED.

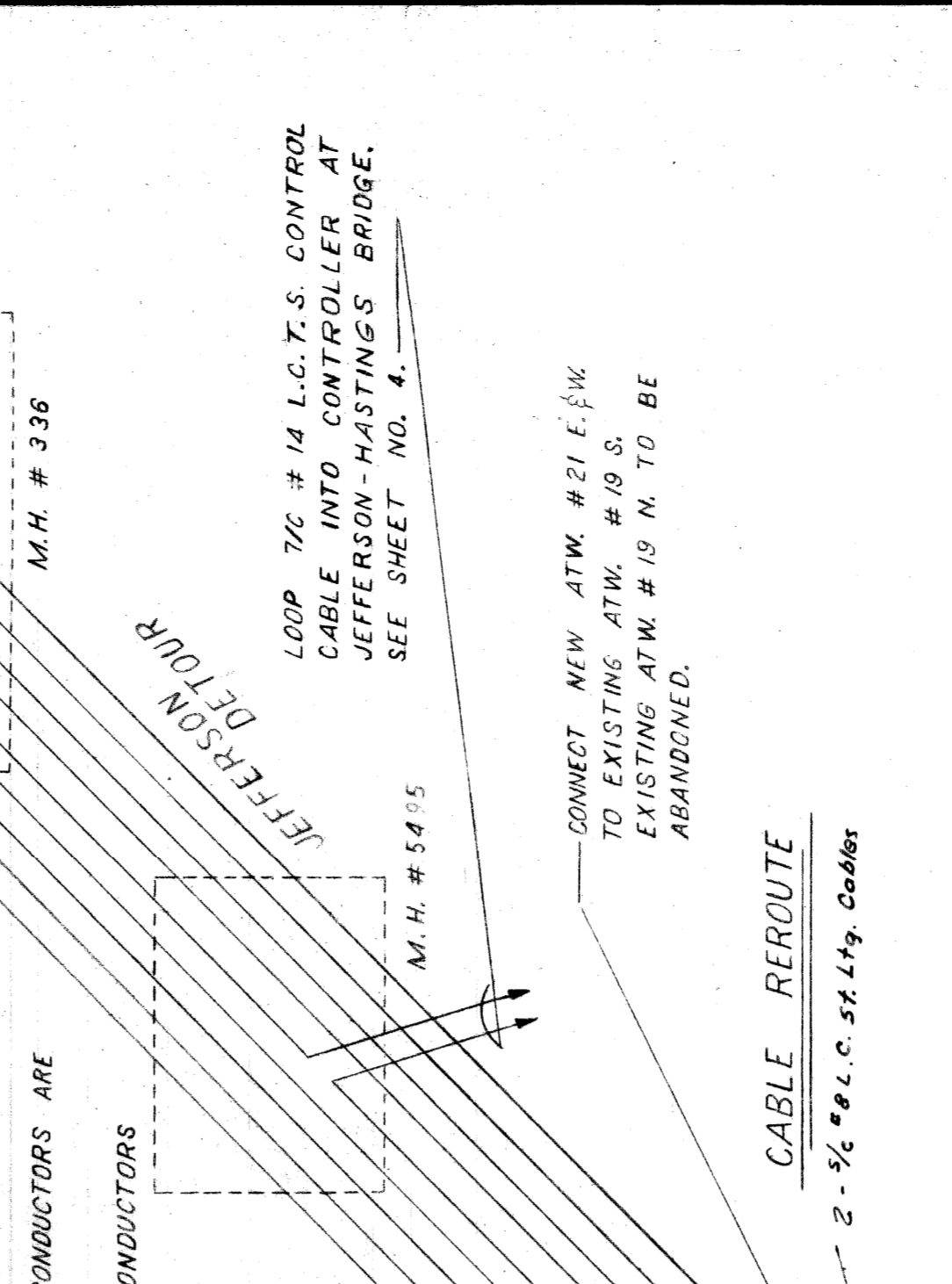
U.G. ST. LTG. UNIT.

REMOVING O.H. LTG. UNIT.



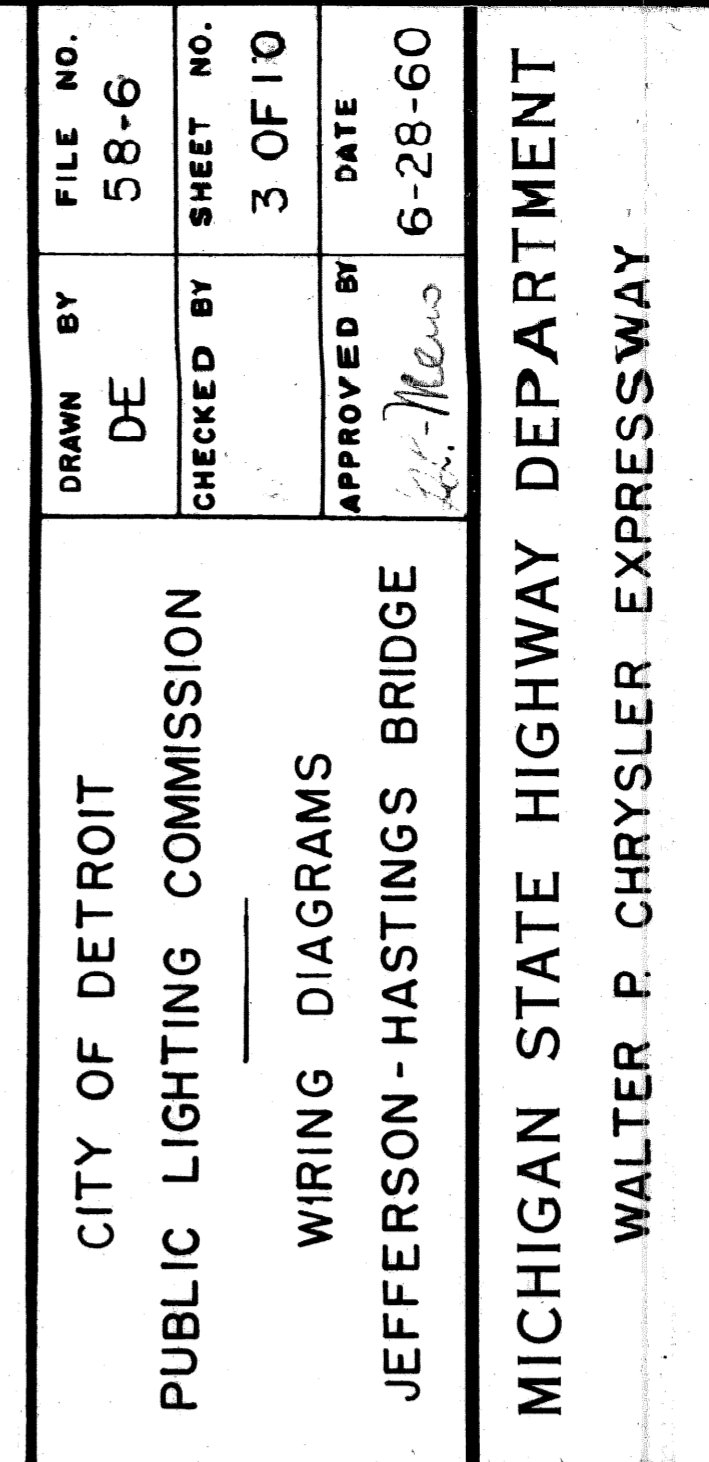
LOOP 7/C #14 L.C. CONTROL CABLE INTO CONTROLLER AT JEFFERSON-HASTINGS BRIDGE. SEE SHEET NO. 4.

CONNECT NEW ATM #21 E.F.W. TO EXISTING ATM #19 S. EXISTING ATM #19 N. TO BE ABANDONED.



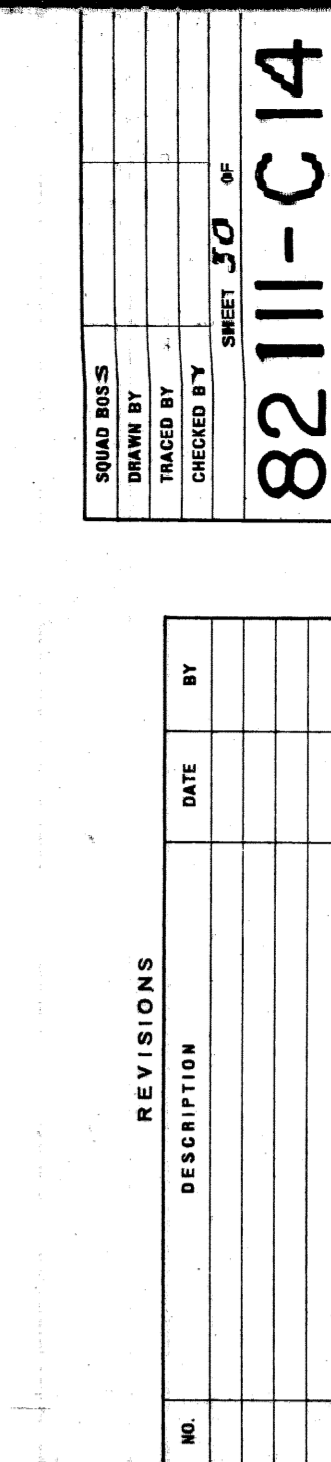
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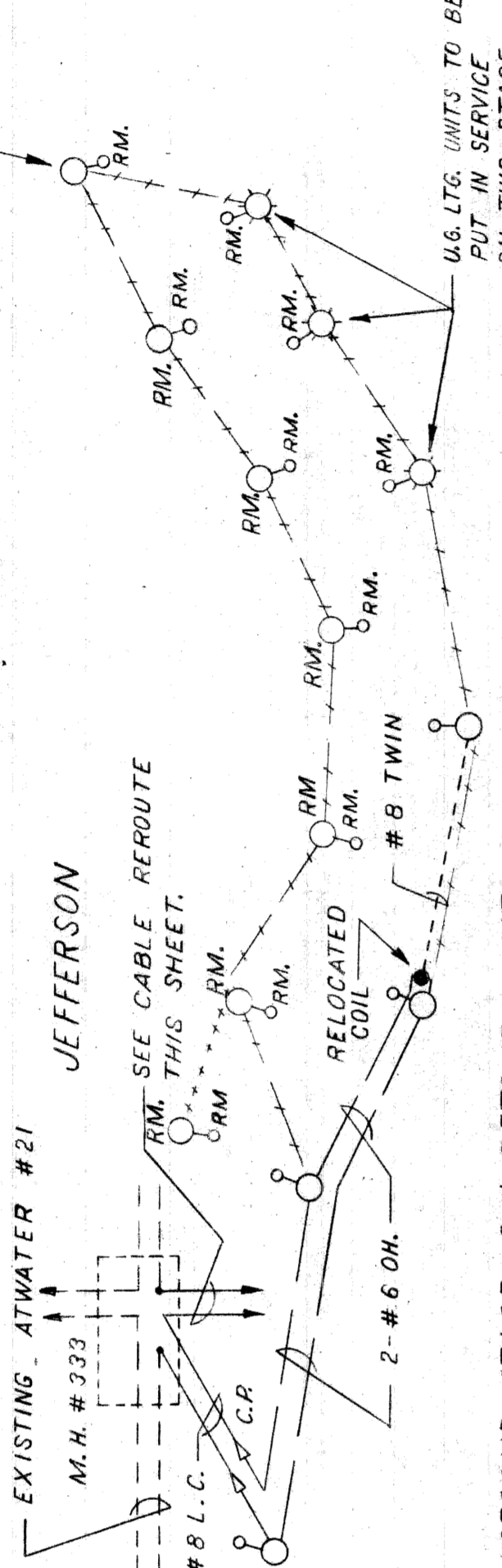
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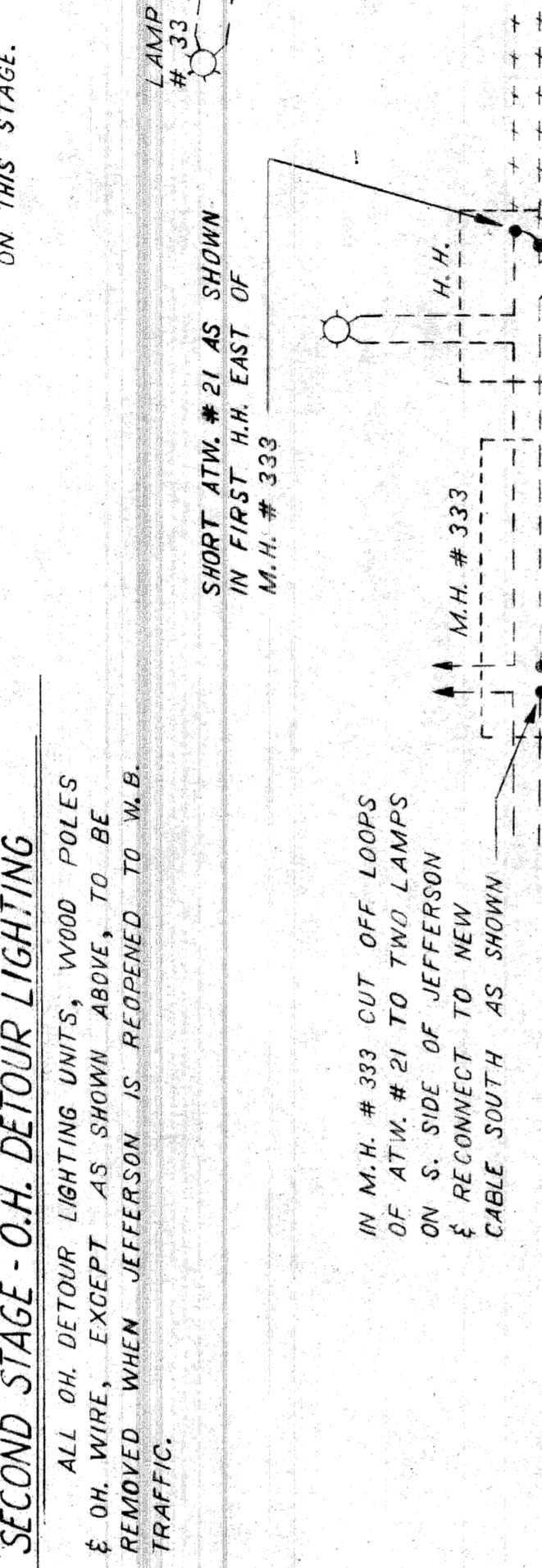
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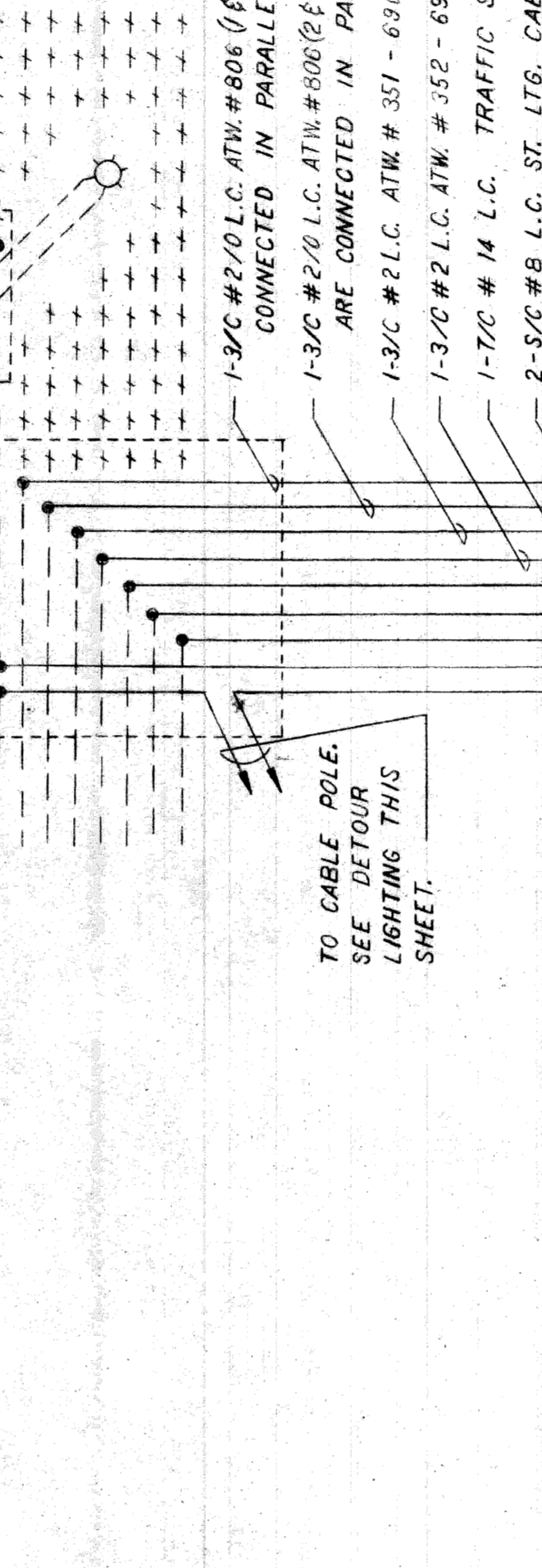
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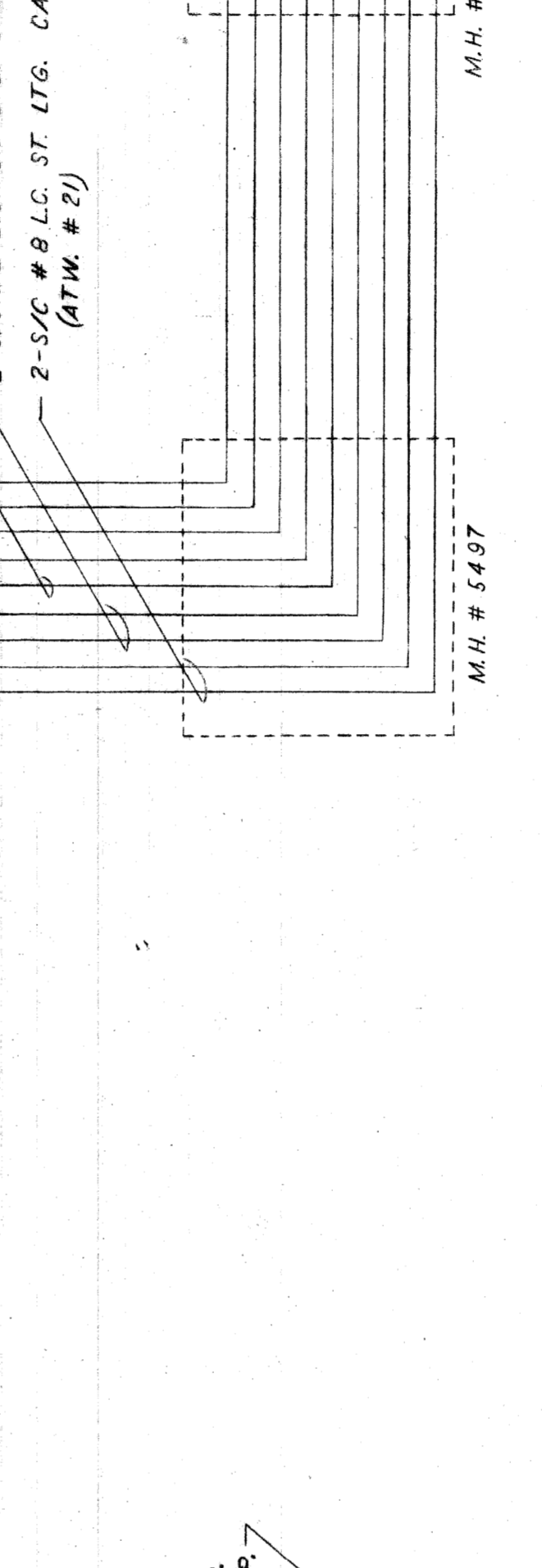
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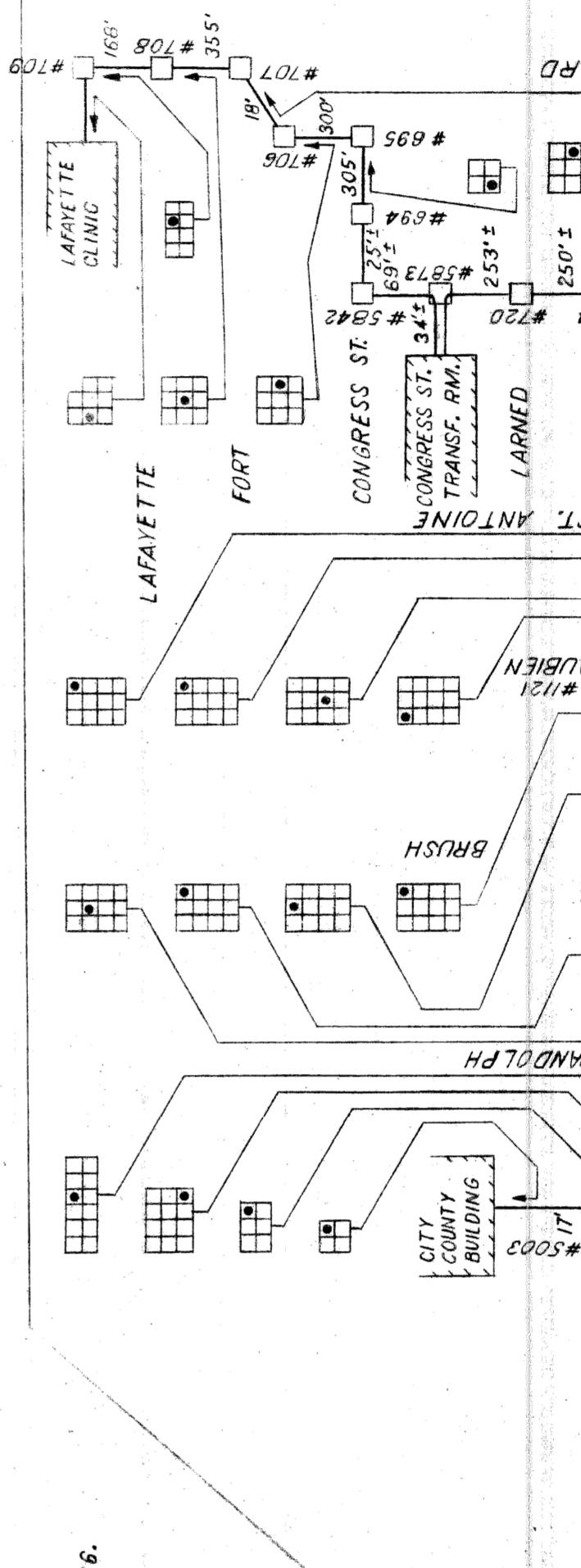
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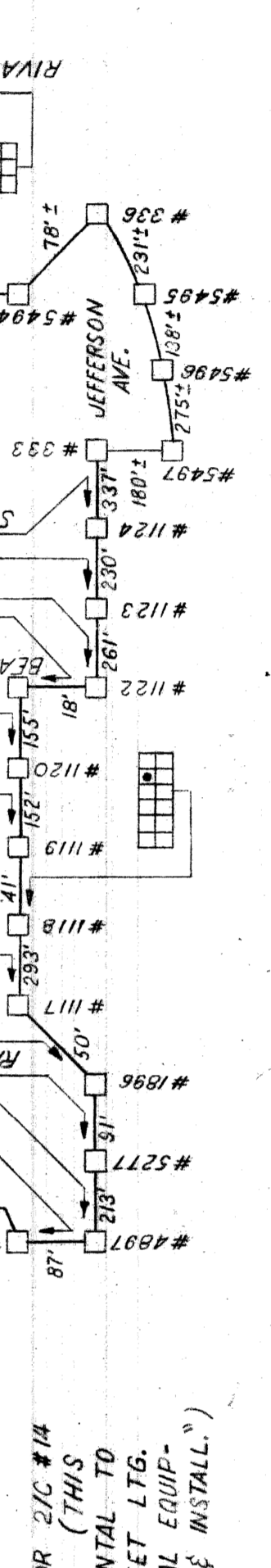
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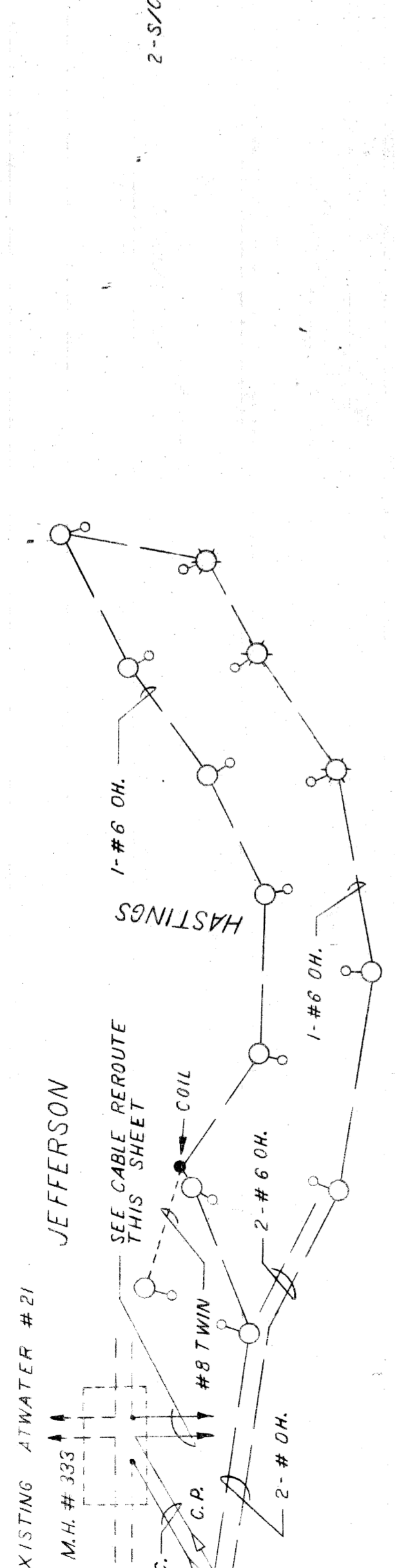
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CONNECT NEW ATM #21 E.F.W. TO EXISTING ATM #19 S. EXISTING ATM #19 N. TO BE ABANDONED.



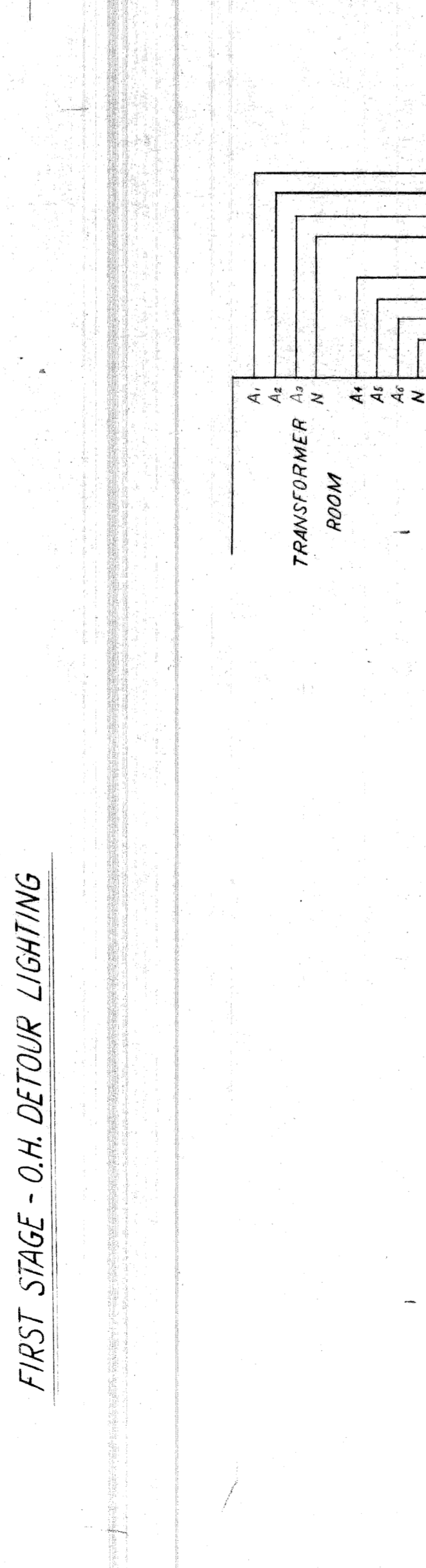
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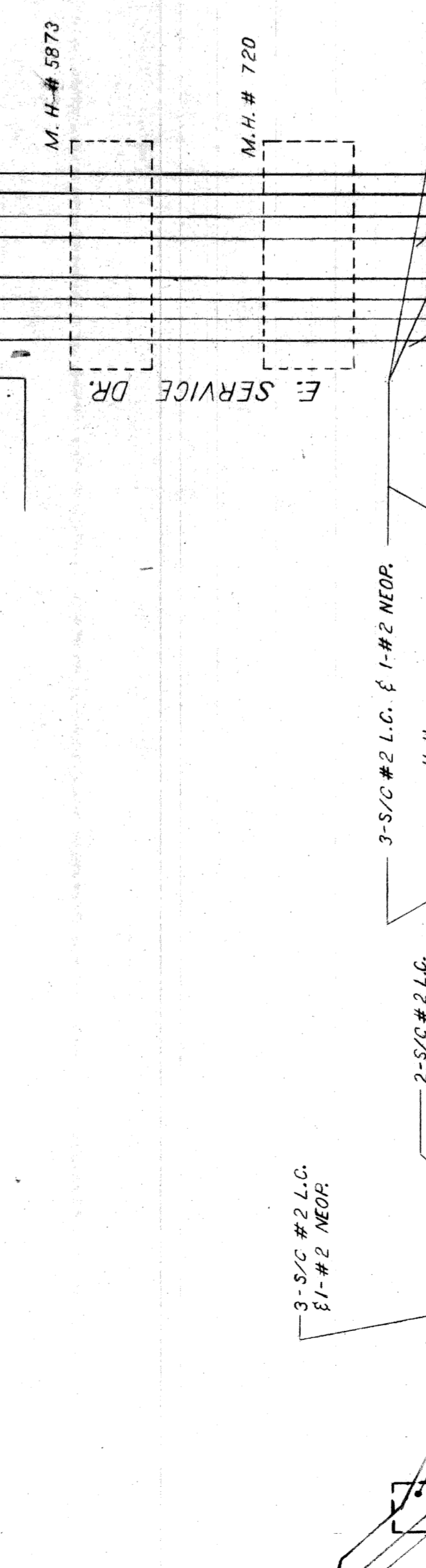
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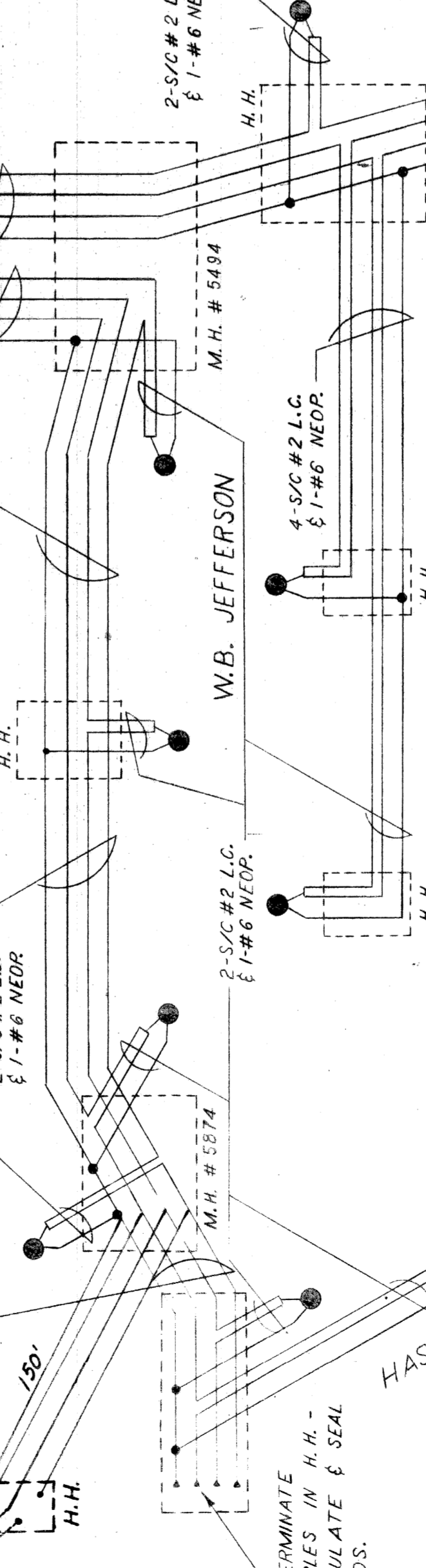
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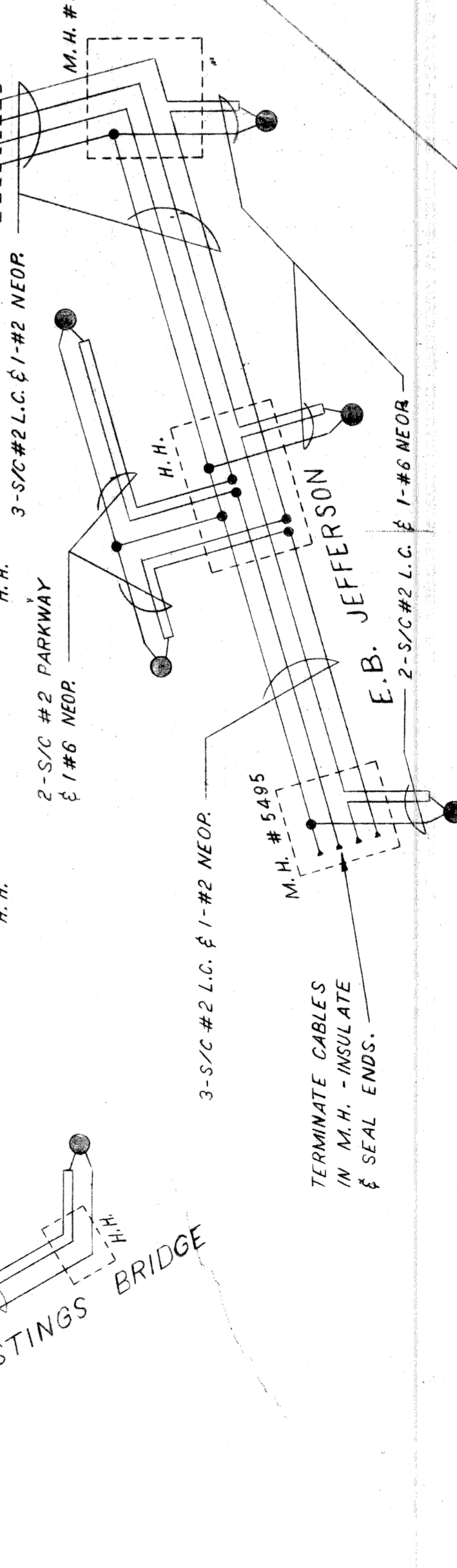
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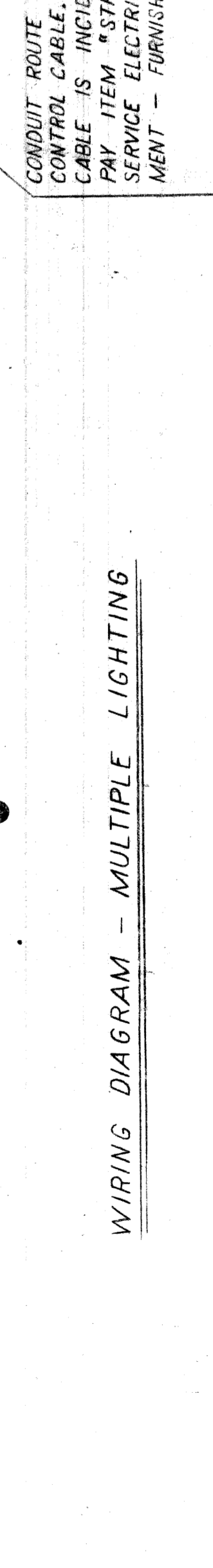
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LOOP 7/C #14 L.C. CONTROL CABLE INTO CONTROLLER AT JEFFERSON-HASTINGS BRIDGE. SEE SHEET NO. 4.

CONNECT NEW ATM #21 E.F.W. TO EXISTING ATM #19 S. EXISTING ATM #19 N. TO BE ABANDONED.

DRAWN BY	FILE NO.
DE	58-6
CHECKED BY	SHEET NO.
	3 OF 10
APPROVED BY	DATE
	6-28-60

CITY OF DETROIT	
PUBLIC LIGHTING COMMISSION	
WIRING DIAGRAMS	
JEFFERSON-HASTINGS BRIDGE	
MICHIGAN STATE HIGHWAY DEPARTMENT	
WALTER P. CHRYSLER EXPRESSWAY	

NO.	REVISIONS	DATE	BY

82111-C14

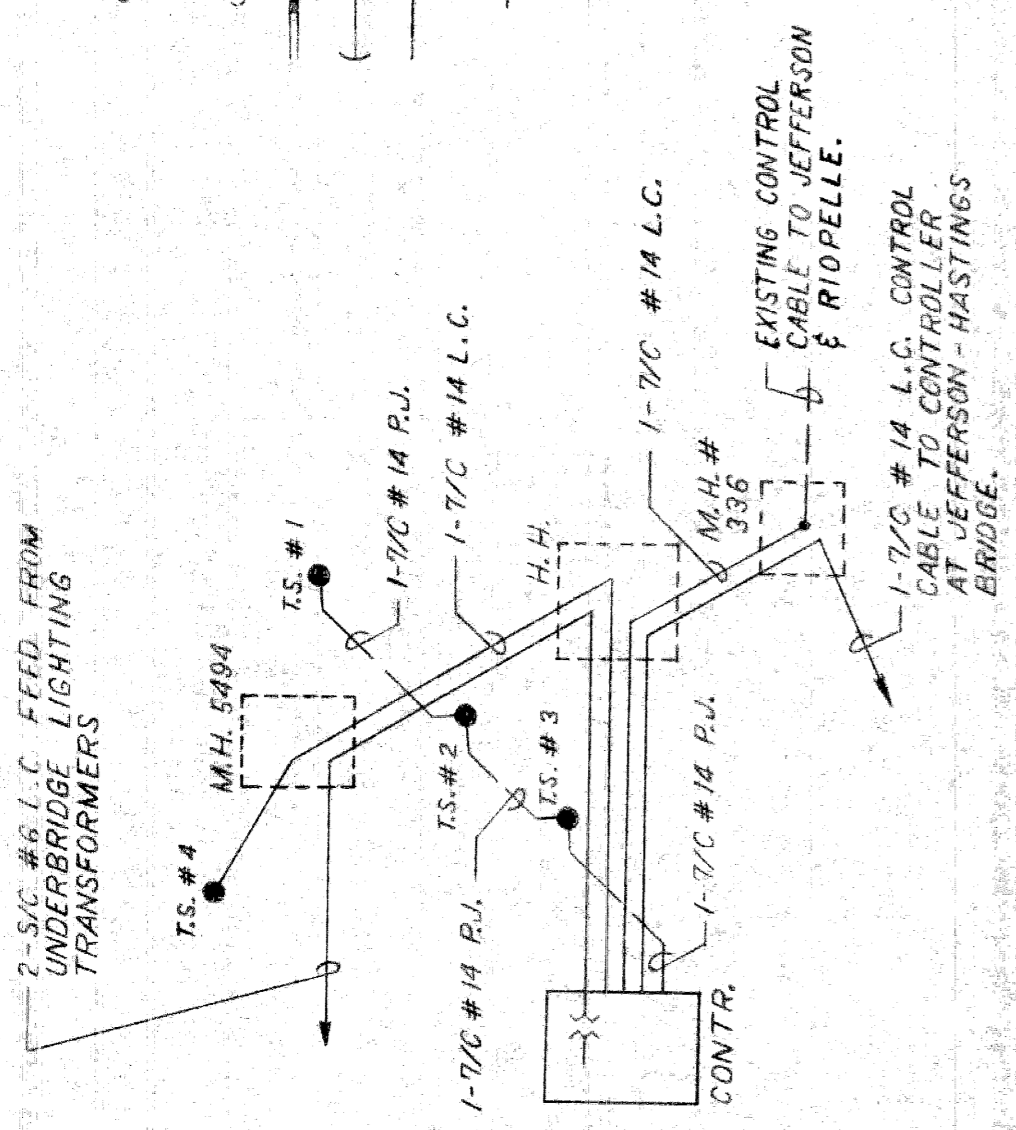
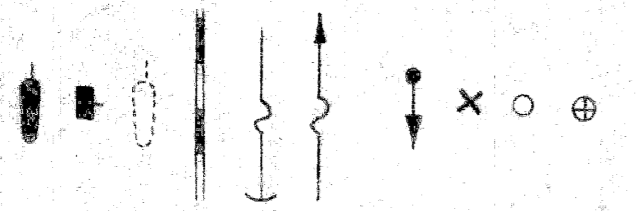
WIRING DIAGRAM - MULTIPLE LIGHTING

CONDUIT ROUTE FOR 2/C #14 CONTROL CABLE. (THIS CABLE IS INCIDENTAL TO PAY ITEM # STREET LTG. SERVICE ELECTRICAL EQUIPMENT - FURNISH & INSTALL.)

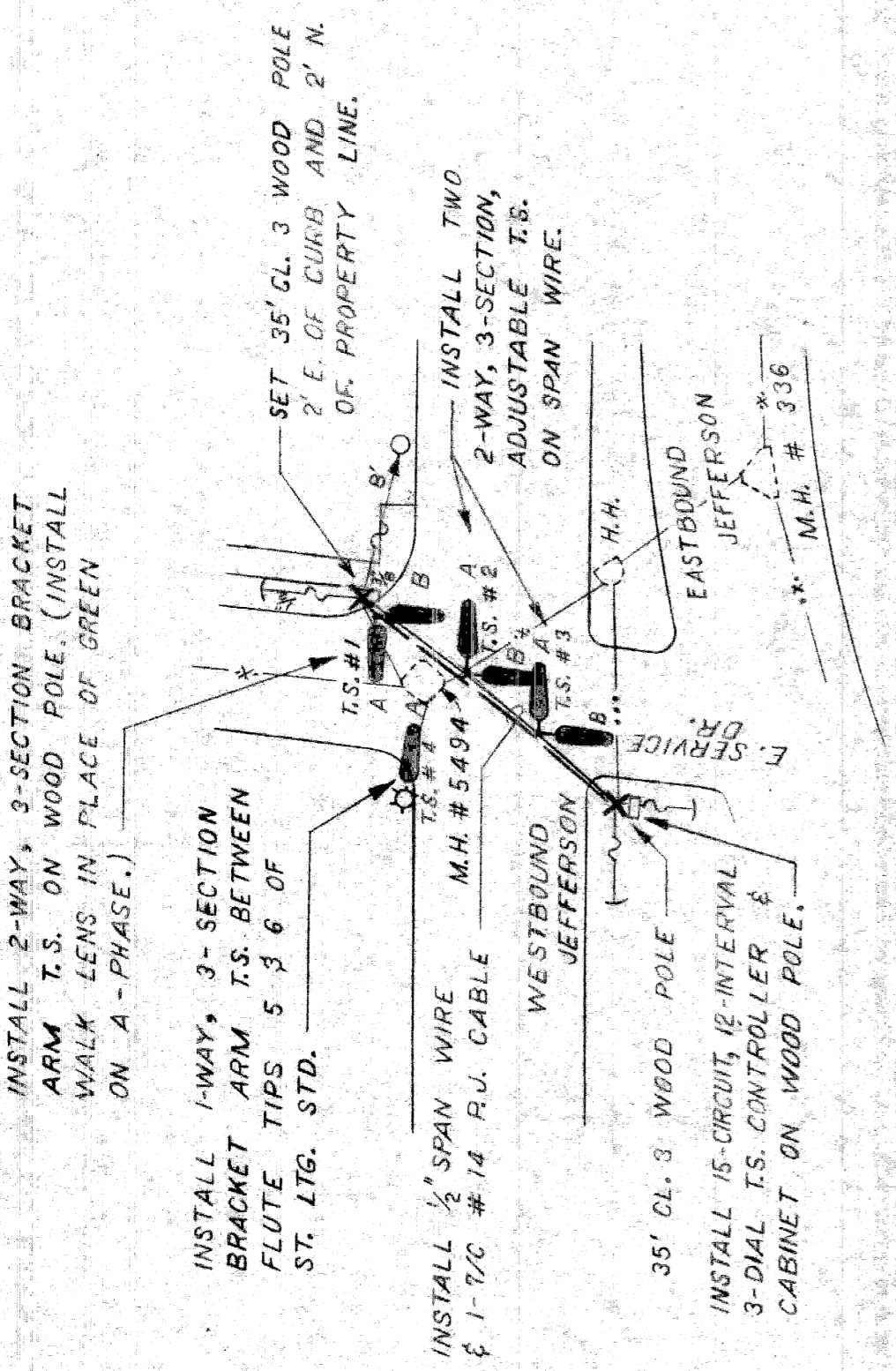
TERMINATE CABLES IN H.H. - INSULATE & SEAL ENDS.

**LEGEND**

- TRAFFIC SIGNAL.
- PEDESTRIAN TRAFFIC SIGNAL.
- FUTURE TRAFFIC SIGNAL.
- TIMBER & SNOW FENCE BARRICADE
- GUY & ANCHOR - SIZE AS INDICATED.
- POLE GUY - SIZE & CONTACT HEIGHT AS INDICATED.
- DOUBLE FLASHER ON PIPE PEDESTAL.
- NEW WOOD POLE.
- EXISTING WOOD POLE.
- EXISTING D.S.R. STEEL POLE.



T.S. WIRING DIAGRAM  
JEFFERSON & E. SERVICE DRIVE



TRAFFIC SIGNALS  
JEFFERSON & E. SERVICE DR.

NOTE: TRAFFIC SIGNALS AT JEFFERSON - HASTINGS BRIDGE AND AT JEFFERSON & E. SERVICE DR. TO BE BAGGED AFTER TESTING & ALIGNMENT.

QUANTITIES THIS SHEET	ITEM	AMOUNT
	35' CLASS 3 WOOD POLE - FURNISH/INSTALL	2 EACH
	FLASHER SIGNAL EQUIPMENT	LUMP
	TWO 2-WAY 3-SECTION SUSPENSION TYPE T.S. ON SPAN WIRE - FURNISH & INSTALL	1 EACH
	1-WAY 3-SECTION B.A.T.S. - FURNISH & INSTALL	2 EACH
	2-WAY 3-SECTION B.A.T.S. - FURNISH & INSTALL	1 EACH
	1-WAY B.A. PEDESTRIAN T.S. - FURNISH & INSTALL	1 EACH
	2-WAY B.A. PEDESTRIAN T.S. - FURNISH & INSTALL	2 EACH
	2-WAY 3-SECTION T.S. - FURNISH & INSTALL	2 EACH
	ARM - FURNISH & INSTALL	3 EACH
	T.S. CONTROLLER CABINET, PEDESTAL, AND NEW F.O.W. - FURNISH & INSTALL	1 EACH
	T.S. CONTROLLER & CABINET - FURNISH & INSTALL ON WOOD POLE	1 EACH

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
TRAFFIC SIGNALS  
JEFFERSON-HASTINGS BRIDGE

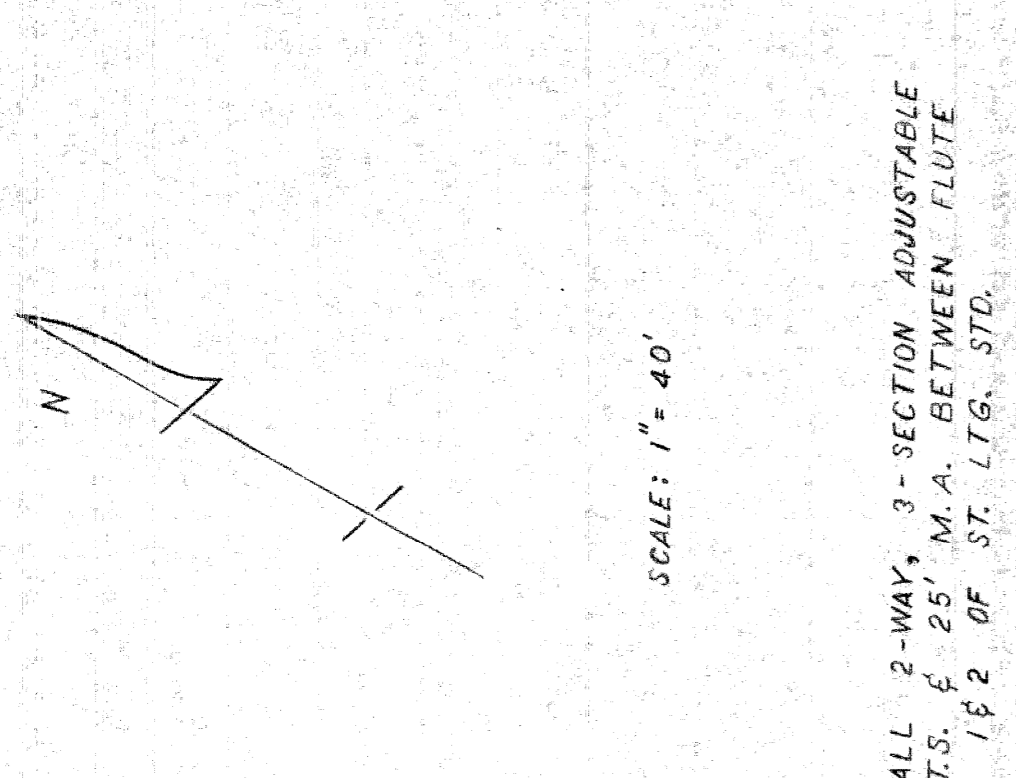
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APPROVED BY [Signature]  
DATE 6-28-60

FILE NO. 58-6  
SHEET NO. 4 OF 10

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

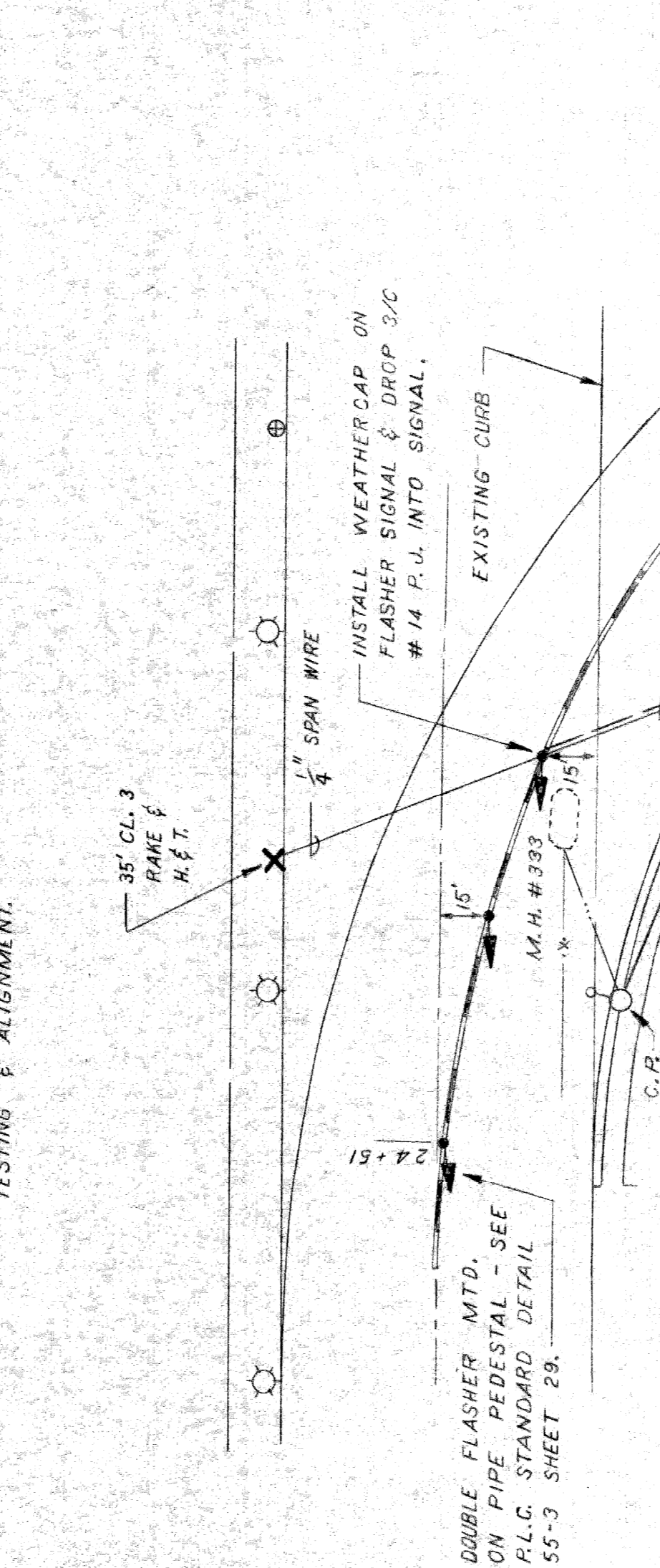
NO.	REVISIONS	DATE	BY

82111-C14

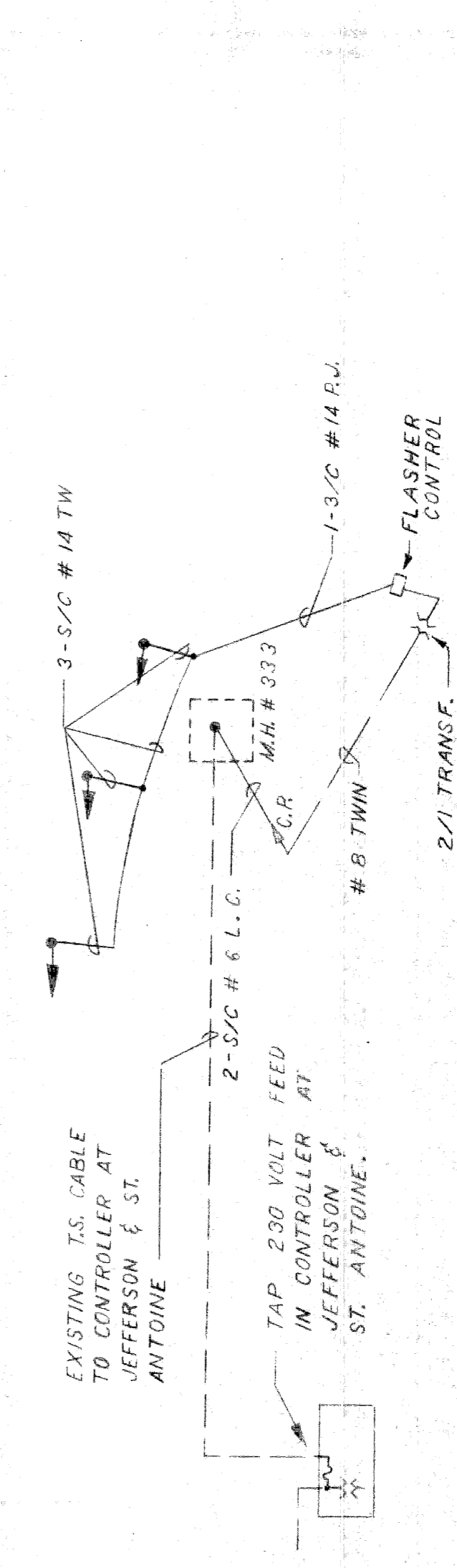


TRAFFIC SIGNALS - JEFFERSON - HASTINGS BRIDGE

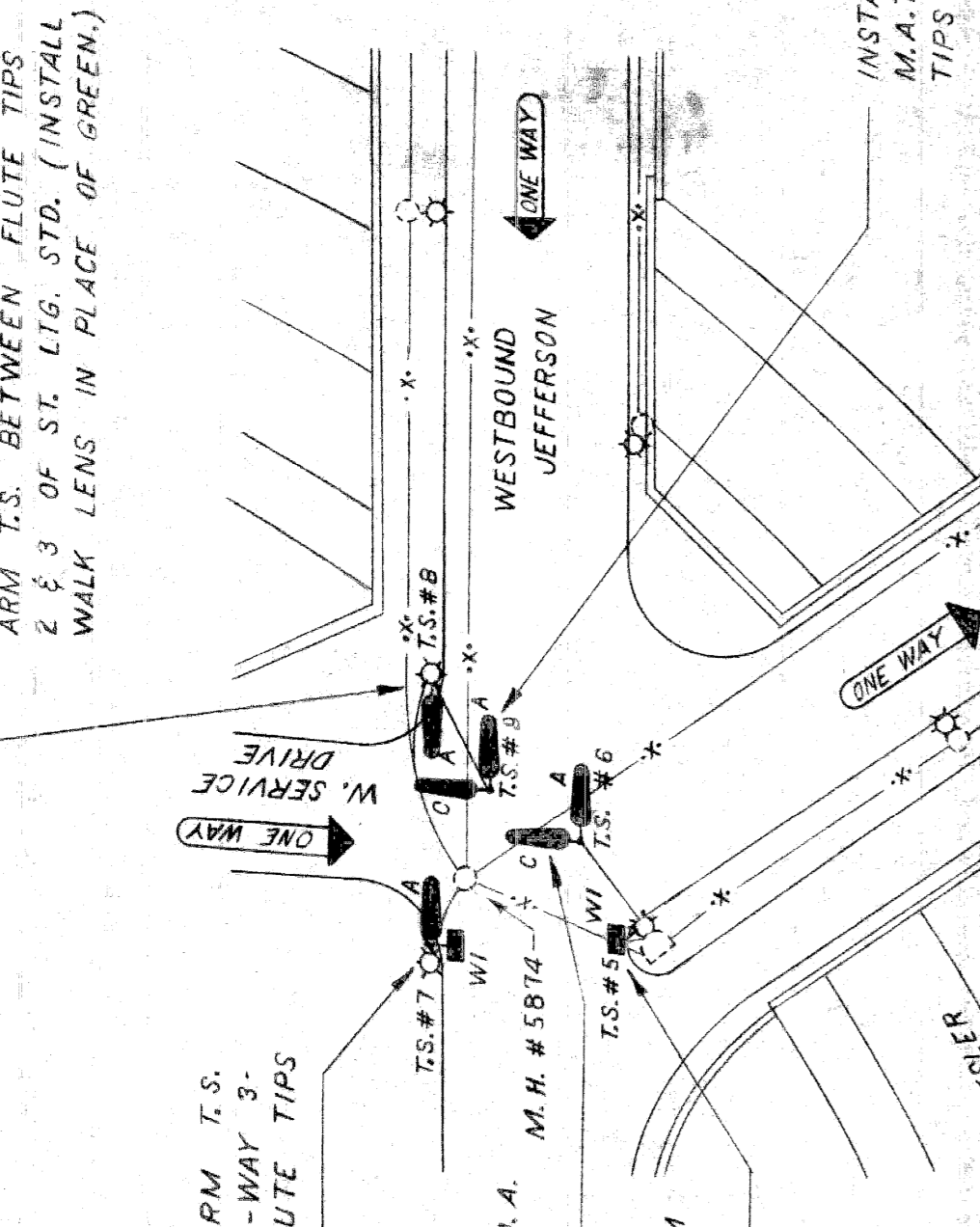
NOTE: TRAFFIC SIGNALS AT JEFFERSON - HASTINGS BRIDGE AND AT JEFFERSON & E. SERVICE DR. TO BE BAGGED AFTER TESTING & ALIGNMENT.



FLASHER SIGNALS - JEFFERSON DETOUR

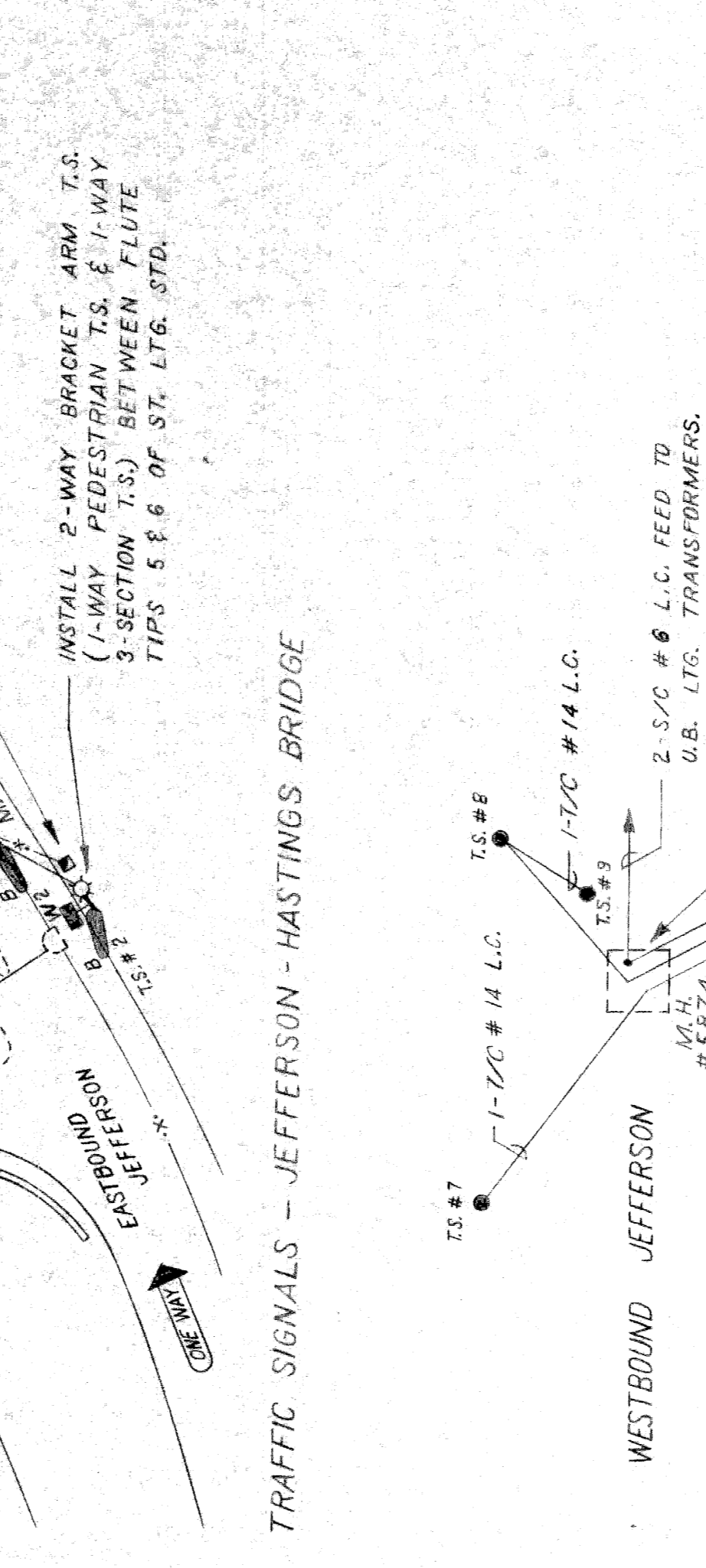


FLASHER SIGNAL WIRING DIAGRAM - JEFFERSON DETOUR

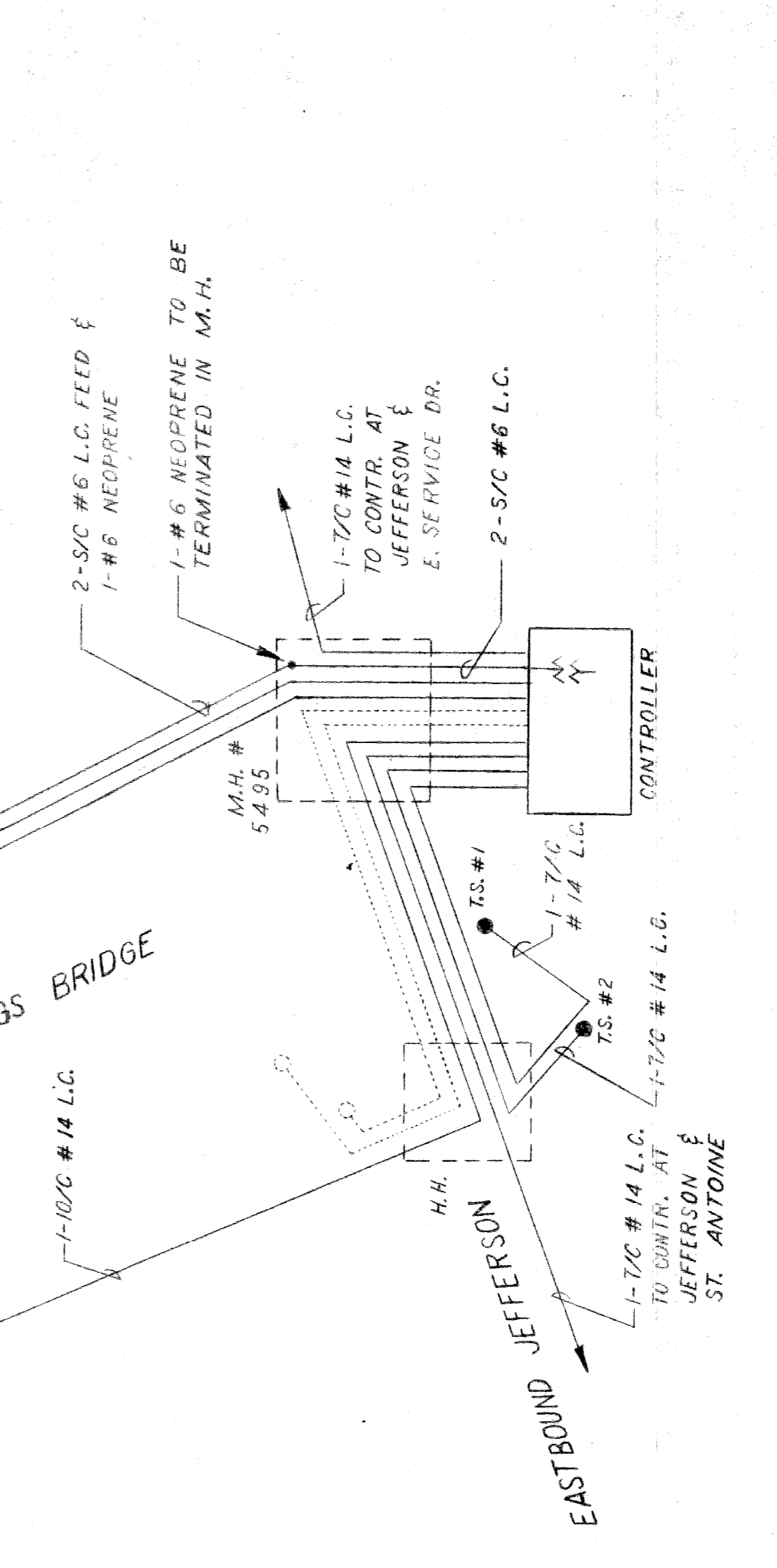


T.S. WIRING DIAGRAM - JEFFERSON - HASTINGS BRIDGE

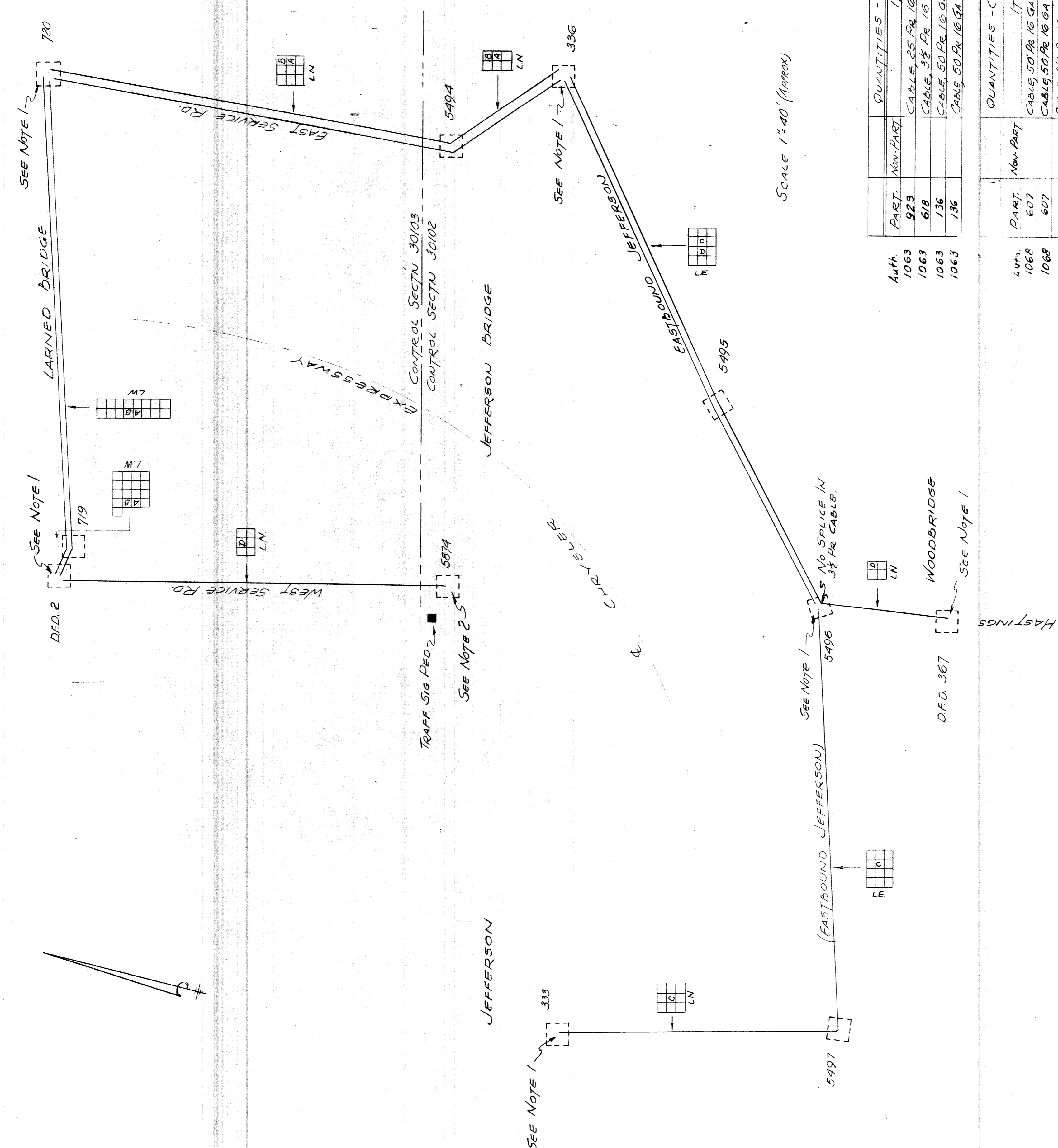
NOTE: TRAFFIC SIGNALS AT JEFFERSON - HASTINGS BRIDGE AND AT JEFFERSON & E. SERVICE DR. TO BE BAGGED AFTER TESTING & ALIGNMENT.



HASTINGS BRIDGE



T.S. WIRING DIAGRAM - JEFFERSON - HASTINGS BRIDGE



**CABLE DATA:**  
 A. 50 PR 16 GA LEAD & RUBBER FIRE CABLE.  
 B. 50 PR 16 GA LEAD & PAPER POLICE CABLE.  
 C. 25 PR 16 GA LEAD & PAPER POLICE CABLE.  
 D. 3/8 PR 16 GA PLASTIC CABLE

**NOTES:**  
 1. LEAVE SUFFICIENT SLACK FOR SPLICING (BY OTHERS).  
 2. COIL 50' SLACK IN M.H.  
 3. ALL CABLES MUST BE INSTALLED & WORKING BEFORE EXISTING CAN BE REMOVED.  
 4. UNLESS NOTED, CABLES ARE TO BE RACKED THROUGH WITHOUT SPLICE.  
 5. NOTIFY COMM DIV (TY 91364) WHEN CABLE IS INSTALLED. EXIST'G TO BE REMOVED BY COMM DIV.

SCALE 1"=40' (APPROX)

Auth.	Part.	Qty.	Item	Amount
1063	923		CABLE, 25 PR 16 GA LEAD & PAPER (CABLE C)	250 UNIT
1063	618		CABLE, 3/8 PR 16 GA PLASTIC (CABLE D)	250 UNIT
1063	136		CABLE, 50 PR 16 GA LEAD & RUBBER (CABLE A)	250 UNIT
1063	136		CABLE, 50 PR 16 GA LEAD & PAPER (CABLE B)	250 UNIT

Auth.	Part.	Qty.	Item	Amount
1068	607		CABLE, 50 PR 16 GA LEAD & RUBBER (CABLE A)	250 UNIT
1068	607		CABLE, 50 PR 16 GA LEAD & PAPER (CABLE B)	250 UNIT
	-		CABLE, 3/8 PR 16 GA PLASTIC	250 UNIT

**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**  
 COMMUNICATIONS-CABLING DIAGRAM  
 HASTINGS & JEFFERSON BRIDGES

DRAWN BY: J.G.  
 CHECKED BY: T.M.  
 APPROVED BY: [Signature]

FILE NO. 58-6  
 SHEET NO. 5 OF 10  
 DATE 6-28-60

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
**WALTER P. CHRYSLER EXPRESSWAY**

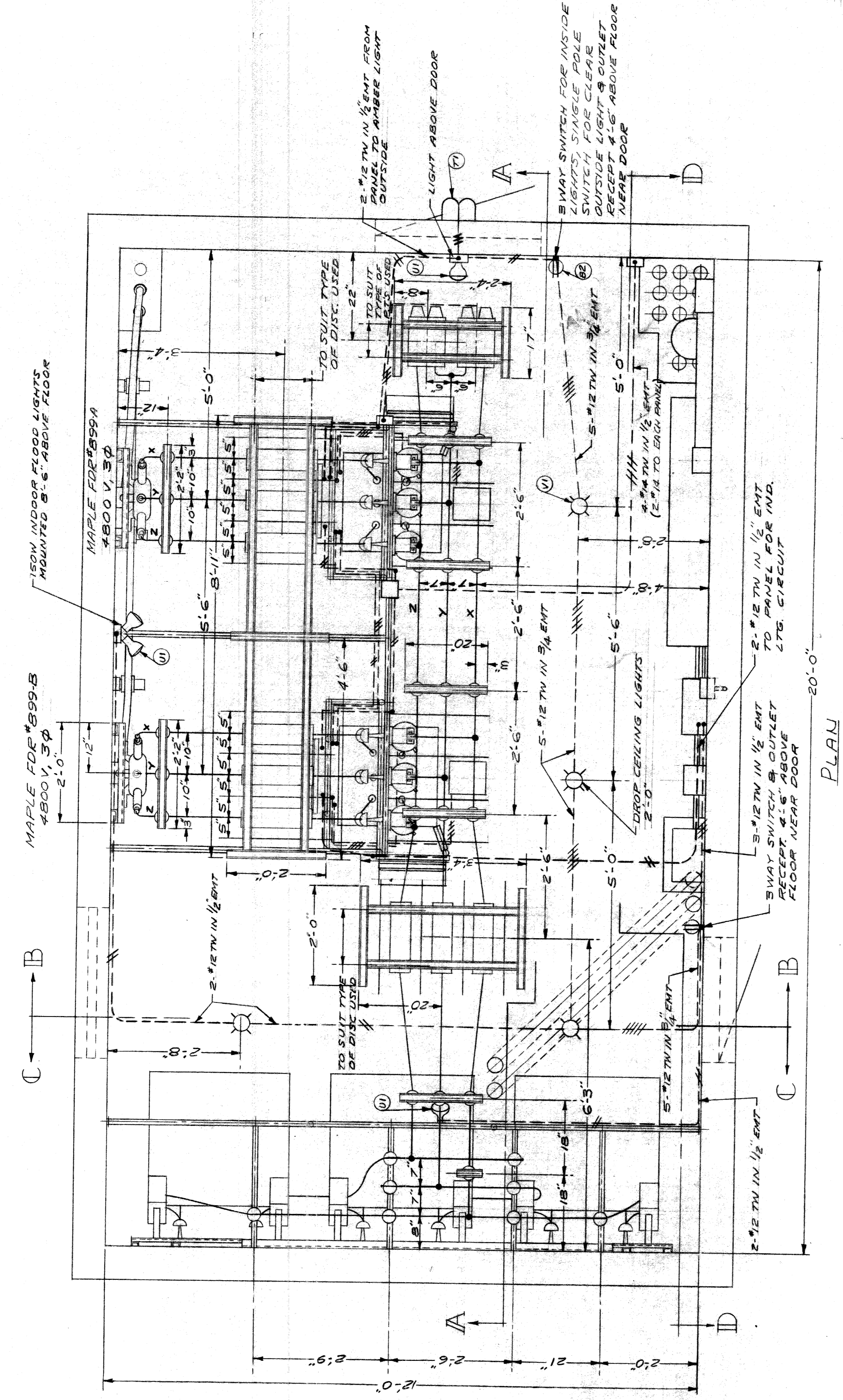
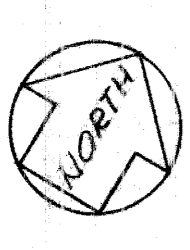
NO.	REVISIONS	DESCRIPTION	DATE	BY

82111-C14



**BILL OF MATERIAL**

AMOUNT	ITEM	DESCRIPTION
3	A	50 KVA, 4800-138.5X277/450 V, 1A TRANSFORMERS
2	B	100 MVA, 7200 VOLT, 600A, 3 POLE, 5T, SOLENOID RECTOR OPERATED Q.C.S.
2	C	4800-120V, 8.7 KV, POTENTIAL TRANSFORMER - UNFUSED PRIMARY
6	D	300/5A, 450A CAPACITY, 9.7 KV C.T.S
2	E	31C, 500A, 7500V FLAT DIVERGENT CAPNUT POTHREAD
15	F	400A, 72KV, 5.85T DISCONNECT SWITCH, FEED CONNECTED
6	G	200A, 52KV, HEAVY DUTY CUTOUTS LINE MATERIAL #FE156
100'	H	1/4" X 1/2" COPPER GROUND BUS
20	J	1/4" X 2 1/2" 28" TRANSITE BARRIER
14'	K	1 3/4" X 1 3/4" WOOD SPACER
2	L	CABLE CLAMP (DELL 2 1/4" DIA. HOLES) SEE DRAWING #4-1509
125'	M	1" X 2 1/4" SIGN (SEE SIGN DETAILS SHEET # 7 OF 10
80'	N	#10, 7.5KV, V.C.F.A WIRE, 12/44" INSULATION
10'	P	#20, 7.5KV, V.C.F.A WIRE, 12/44" INSULATION
AS REQD	Q	#6, 7.5KV, V.C.F.A WIRE, 12/44" INSULATION
200	R	WIRE MISCELLANEOUS 600V, TYPE TW (SEE DRAWINGS)
50	S	1/4" STANDARD GALVANIZED STEEL PIPE
21	T	GALVANIZED TEE FITTING FOR 1/4" PIPE (THREADLESS)
8	U	GALVANIZED FLOOR FLANGE FOR 1/4" PIPE (THREADLESS)
12	V	GALVANIZED CROSS FITTING FOR 1/4" PIPE (THREADLESS)
16	W	GALVANIZED PANEL MOUNTING BRACKET FOR 1/4" PIPE
48	X	GALVANIZED TRANSITE BARRIER SUPPORT FOR 1/4" PIPE
20	Y	INSULATORS (CLASS 55-2)
28	Z	INSULATOR PIN FOR 1/4" PIPE
1	AA	MOOR STICK C' BACK
2	AB	HIGH VOLTAGE SIGN
4	AC	RELAY PANELS, SIZE AS SHOWN ON DRAWINGS
5	AD	DIRECTIONAL OVERCURRENT RELAY
1	AE	AUXILIARY VOLTAGE RELAY
3	AF	POTENTIAL INDICATING VOLT METER
AS REQD	AG	POTENTIAL BLOCK
1	AH	POTENTIAL TRANSFORMER FUSE BOX
1	AI	SAFETY SWITCH
1	AJ	CIRCUIT BREAKER PANEL
2	AK	OUTDOOR LIGHT FIXTURES
4	AL	INDOOR WALL MOUNTED LIGHTS
4	AM	INDOOR CEILING SUSPENDED LIGHTS
AS REQD	AN	JUNCTION BOX
AS REQD	AO	DUPLEX PLUG RECEPTACLE AND LIGHT SWITCHES (SEE DRAWING)
AS REQD	AP	JUNCTION AND OUTLET BOXES (SEE DRAWING)
36'	AQ	CONDUIT & FITTING
1	AR	RUBBER MATTING (3PCS 12' LONG)
1	AS	ST. LTB CONTROL AND DISTRIBUTION CUBICLE
4	AT	MOLDED CASE BREAKER
3	AU	MAGNETIC CONTACTOR
3	AV	BREAKER PANEL
5	AW	UNIVERSAL VOLTAGE RELAY
AS REQD	AX	UNIVERSAL CURRENT RELAY
1	AY	INDICATING LAMP
AS REQD	AZ	PUSH BUTTON
1	BA	TERMINAL BLOCK
1	BB	TEST BLOCK
1	BC	SERIES TRANSFORMER
1	BD	PHOTO ELECTRIC CONTROL
3	BE	UNDER BRIDGE LTB CIRCUIT BREAKERS
115'	BG	2" CHANNEL IRON
5'	BH	3" CHANNEL IRON
AS REQD	BI	4" CHANNEL IRON
AS REQD	BJ	INDICATOR LAMPS
AS REQD	BK	LAMP IN DUCT (AS SHOWN ON DRAWING)
2	BL	RELOCATING RELAY
2	BM	AUTO-MANUAL CONTROL SWITCH
2	BN	OVER-CURRENT BREAKER CONTROL SWITCH
2	BO	CABLE TRAY & SHIELD ARM (SEE DRAWING #42-0317D)
7 1/2"	BP	1/4" X 1/2" X 1/2" ANGLE IRON
30	BQ	1/8" X 1" X 1" ANGLE IRON
1	BR	TIME METER
AS REQD	BS	120V NEON GLOW LAMP TYPE NE-34 WITH APPROPRIATE SOCKET



**CITY OF DETROIT**  
PUBLIC LIGHTING COMMISSION

DRAWN BY: T.R.L. R.J.  
FILE NO.: 58-6

CHECKED BY: [Signature]  
SHEET NO.: 6 OF 10

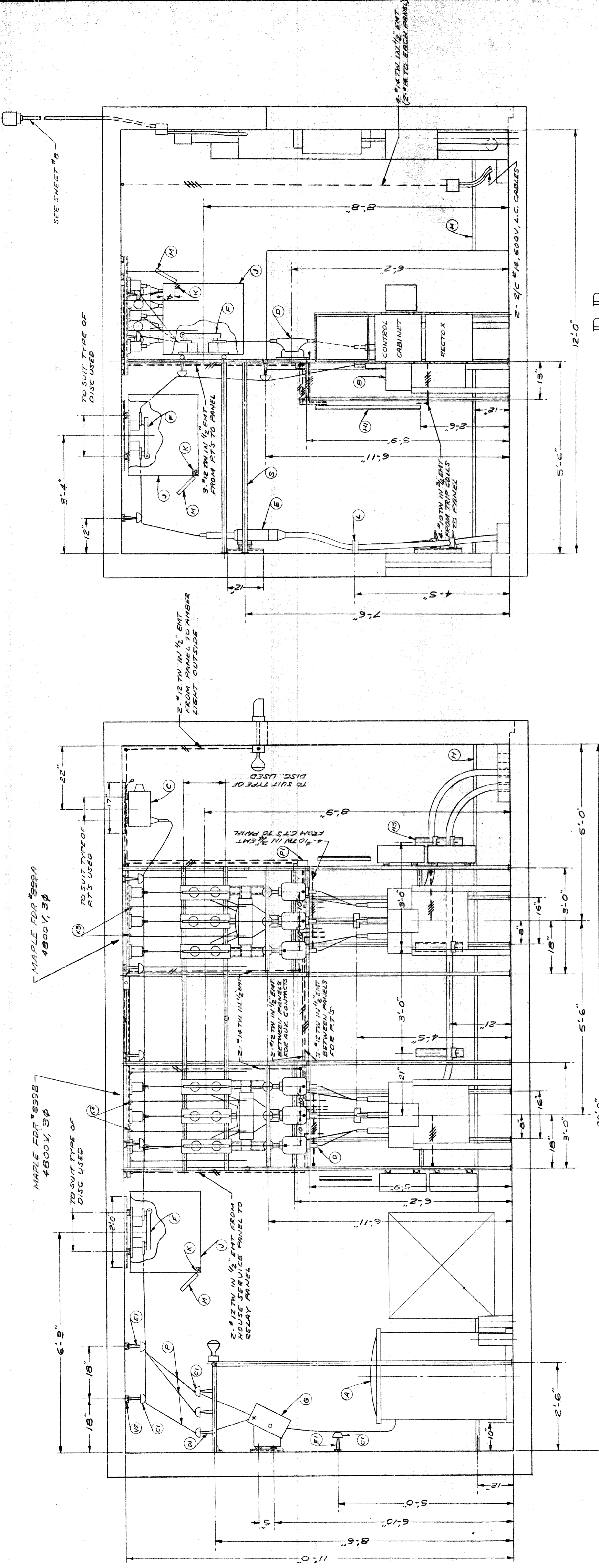
APPROVED BY DATE: [Signature] 8-9-60

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
WALTER P. CHRYSLER EXPRESSWAY

NO.	REVISIONS	DATE	BY

82111-C14

**NOTE:**  
ALL NON-CURRENT CARRYING METALLIC PARTS TO BE GROUNDED INCLUDING DOOR FRAMES, LOUVERS, & CABLE SHEATHS



SECTION B-B

NOTE:  
 ALL NON-CURRENT CARRYING METALLIC PARTS TO BE GROUNDED INCLUDING DOOR FRAMES, LOUVERS & CABLE SHEATHS

CITY OF DETROIT PUBLIC LIGHTING COMMISSION STREET LIGHTING TRANSFORMER ROOM SCALE 3/4" = 1'-0"	DRAWN BY T.R.L. R.J.	FILE NO. 58-6
	CHECKED BY AL	SHEET NO. 7 OF 10
	APPROVED BY Memo	DATE 8-9-60

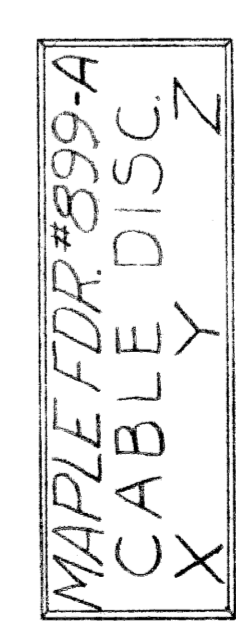
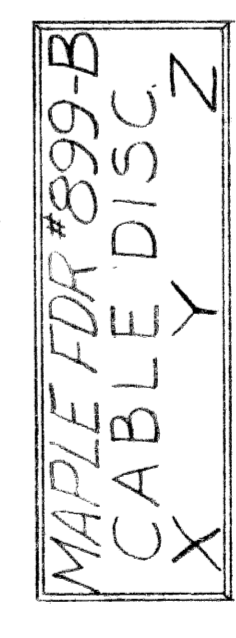
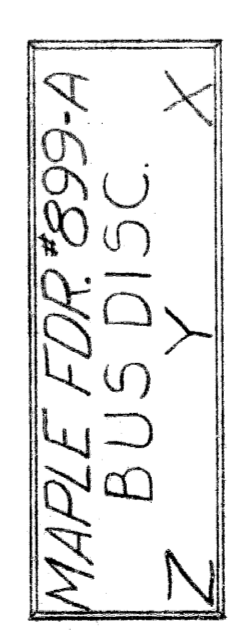
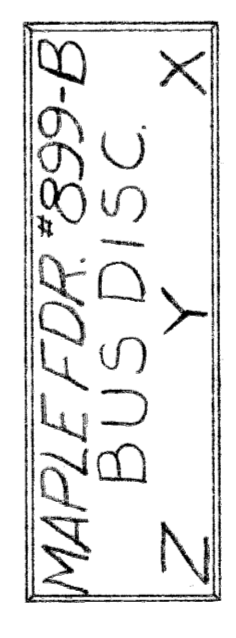
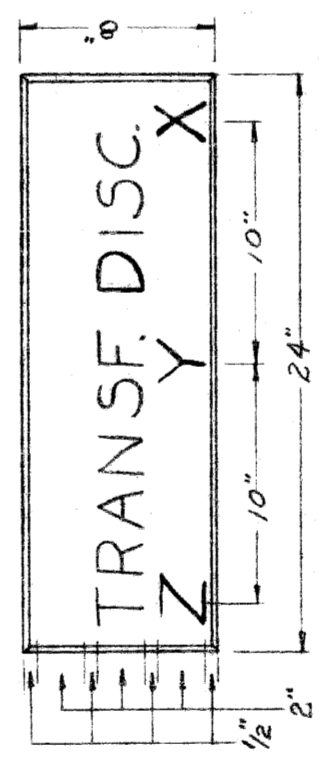
MICHIGAN STATE HIGHWAY DEPARTMENT  
 WALTER P. CHRYSLER EXPRESSWAY

NO.	REVISIONS	DESCRIPTION	DATE	BY

82III-C 14

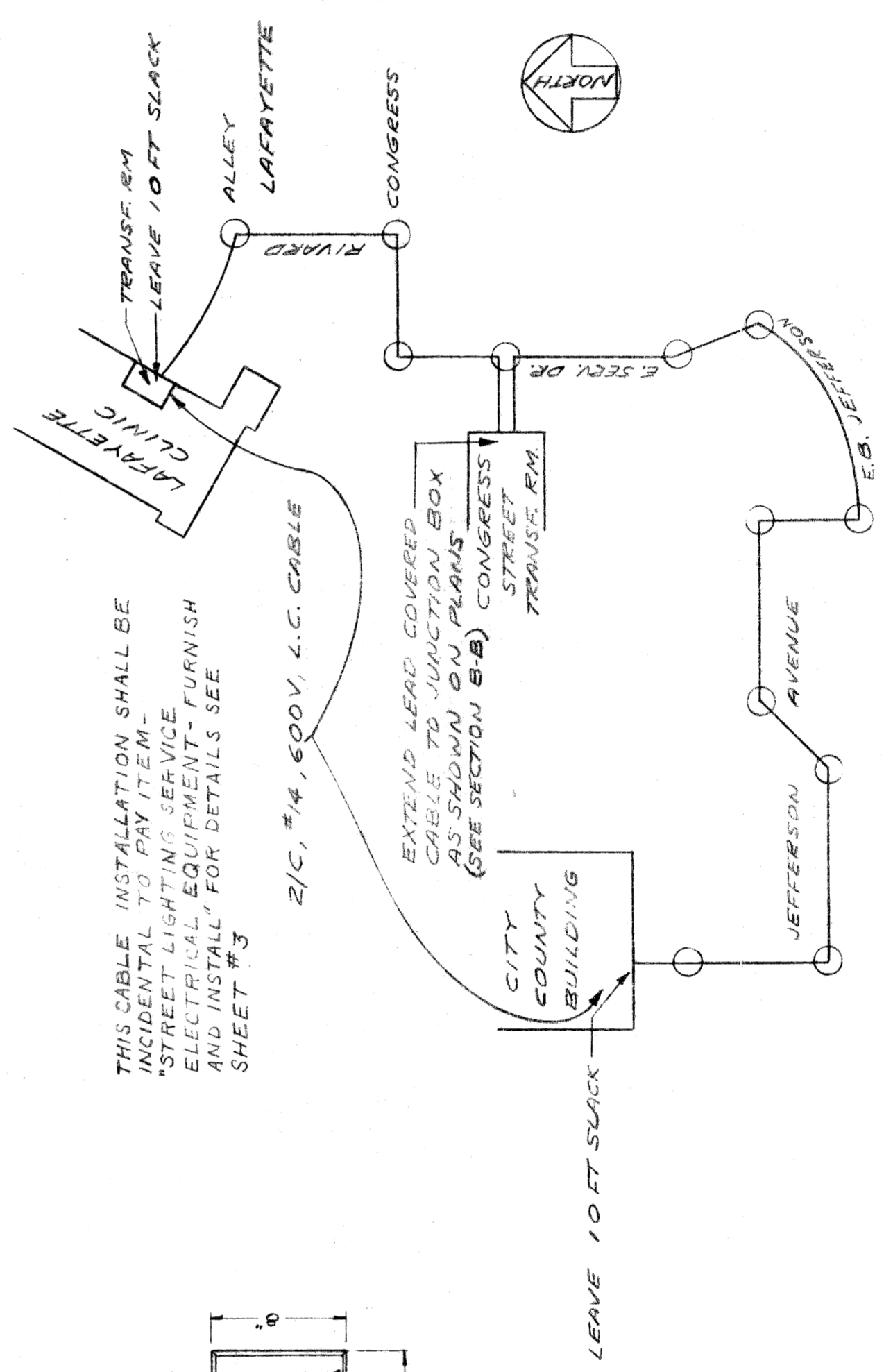
SECTION A-A

THIS CABLE INSTALLATION SHALL BE INCIDENTAL TO THE ELECTRICAL EQUIPMENT FURNISH AND INSTALL FOR DETAILS SEE SHEET #3

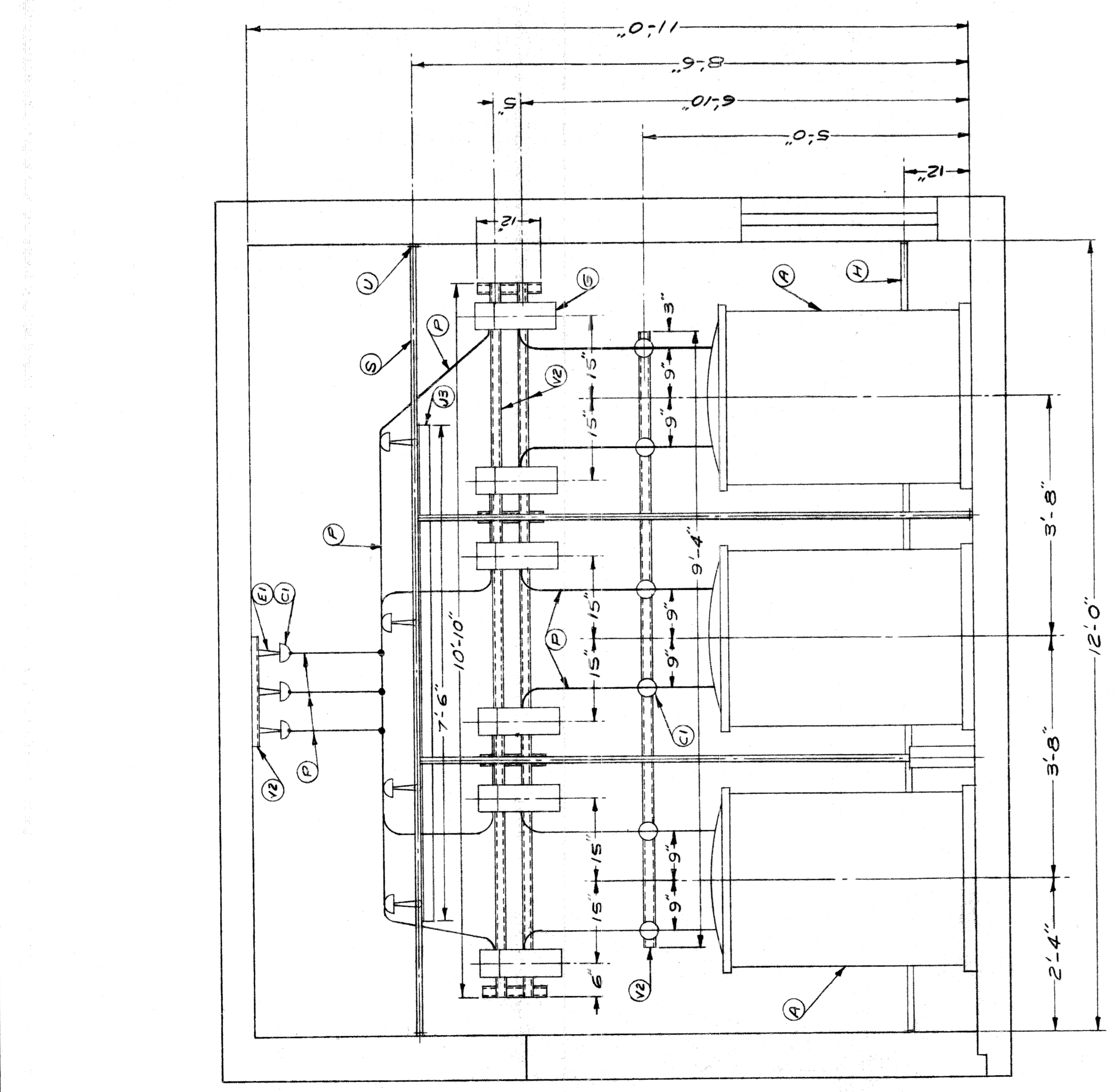


SIGN. DETAILS  
 SCALE 1/2" = 1'-0"

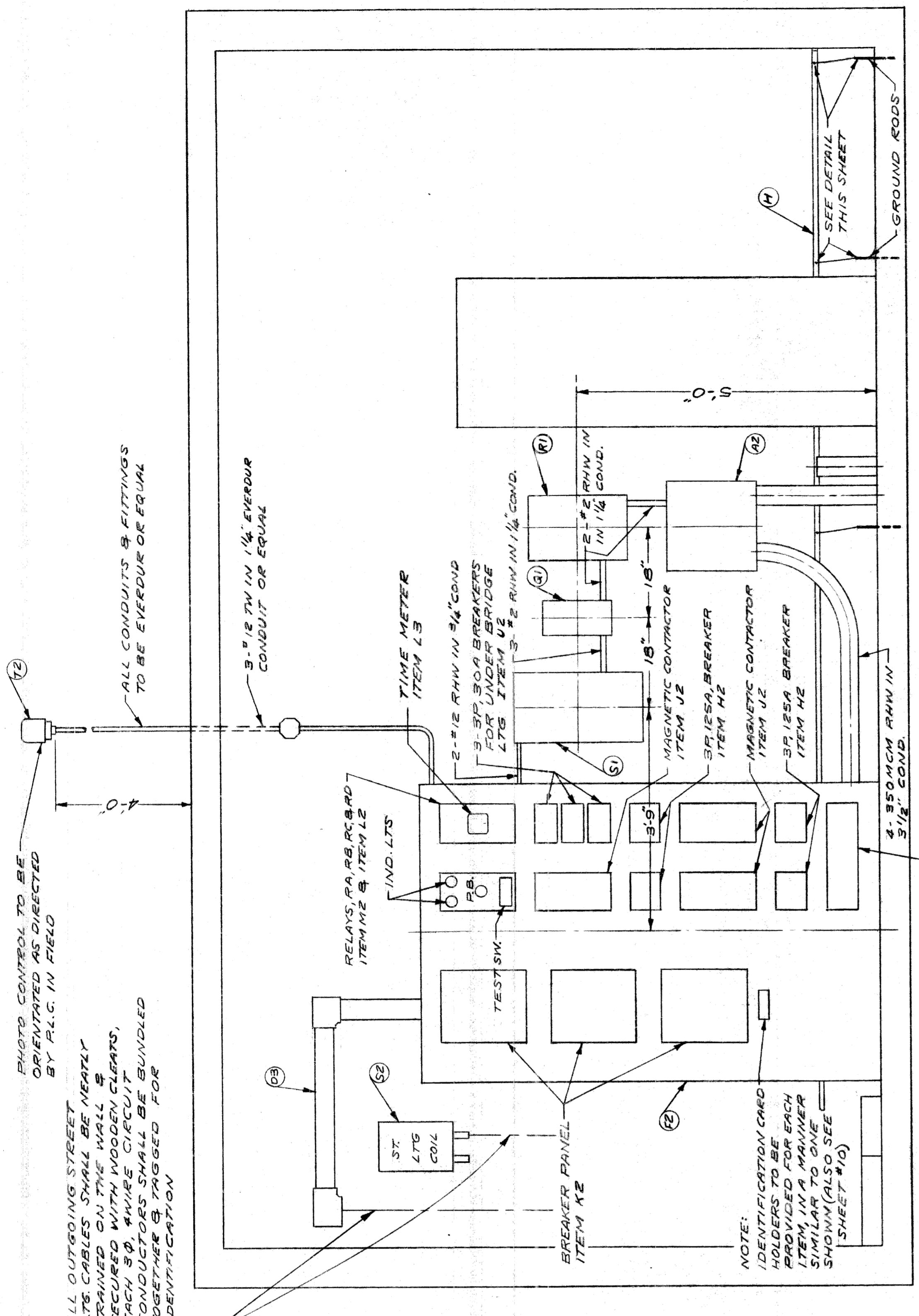
MAT'L: 5" x 24" x 1/2" CLEAR WHITE PINE  
 FINISH: OUB COAT SEALER, TWO COATS  
 BLACK ENAMEL  
 LETTERS: 2" SCOTCHLITE



CONTROL CABLE ROUTE  
 NO SCALE



SECTION C-C



SECTION D-D

ALL OUTGOING STREET LUGS CABLES SHALL BE NEATLY TRAINED ON THE WALL & SECURED WITH WOODEN CLIPATS, EACH 30" WARE CIRCUIT CONDUCTORS SHALL BE BUNDLED TOGETHER & TAGGED FOR IDENTIFICATION

PHOTO CONTROL TO BE ORIENTATED AS DIRECTED BY P.L.C. IN FIELD

ALL CONDUITS & FITTINGS TO BE EVERDUR OR EQUAL

3" x 1/2" TH IN 1/4" EVERDUR CONDUIT OR EQUAL

2" x 1/2" RHW IN 3/4" CONDUIT

3" x 3/4" BREAKERS OR 1" x 1/2" RANGE LUGS ITEM U2

2" x 1/2" RHW IN 1/4" CONDUIT

3" x 3/4" RHW IN 1/4" CONDUIT

RELAYS RA RB RC RD ITEM W2

IND. L.T.S.

TEST SW.

ST. L.T.S. COIL

BREAKER PANEL ITEM H2

TIME METER ITEM L3

3" x 3/4" BREAKERS OR 1" x 1/2" RANGE LUGS ITEM U2

2" x 1/2" RHW IN 3/4" CONDUIT

3" x 3/4" RHW IN 1/4" CONDUIT

MAGNETIC CONTACTOR ITEM V2

SP. I.E.S.A. BREAKER ITEM H2

MAGNETIC CONTACTOR ITEM V2

SP. I.E.S.A. BREAKER ITEM H2

4" x 3/8" MCM RHW IN 3/4" CONDUIT

3" x 400 A MAIN LUGS

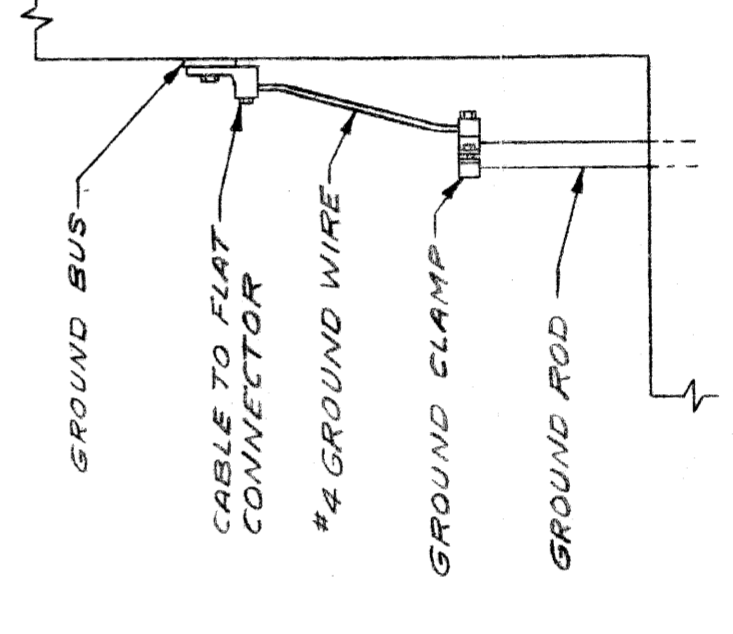
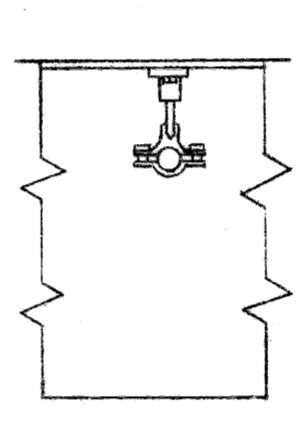
1" x 400 A SIM WITH FUTURE

1" x 300 A SP. R. TWIN B50

MCM SOLDELESS CONNECT. PER LUG

NOTE: IDENTIFICATION CARD HOLDERS TO BE PROVIDED FOR EACH ITEM, IN A MANNER SIMILAR TO ONE SHOWN (ALSO SEE SHEET #10)

NOTE: ALL NON-CURRENT CARRYING METALLIC PARTS TO BE GROUNDED INCLUDING DOOR FRAMES, LOUVERS & CABLE SHEATHS



GROUND ROD CONNECTION DETAILS

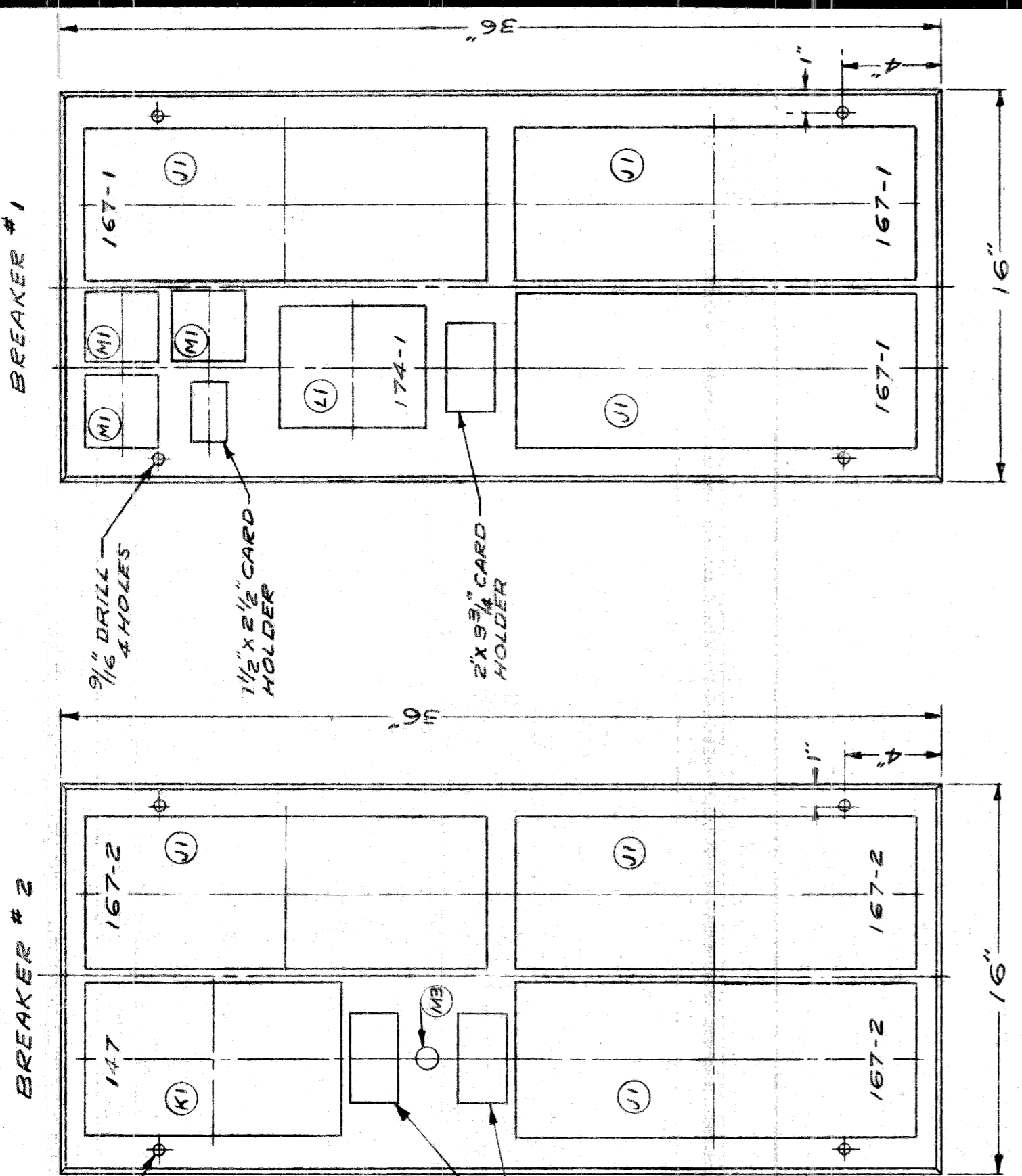
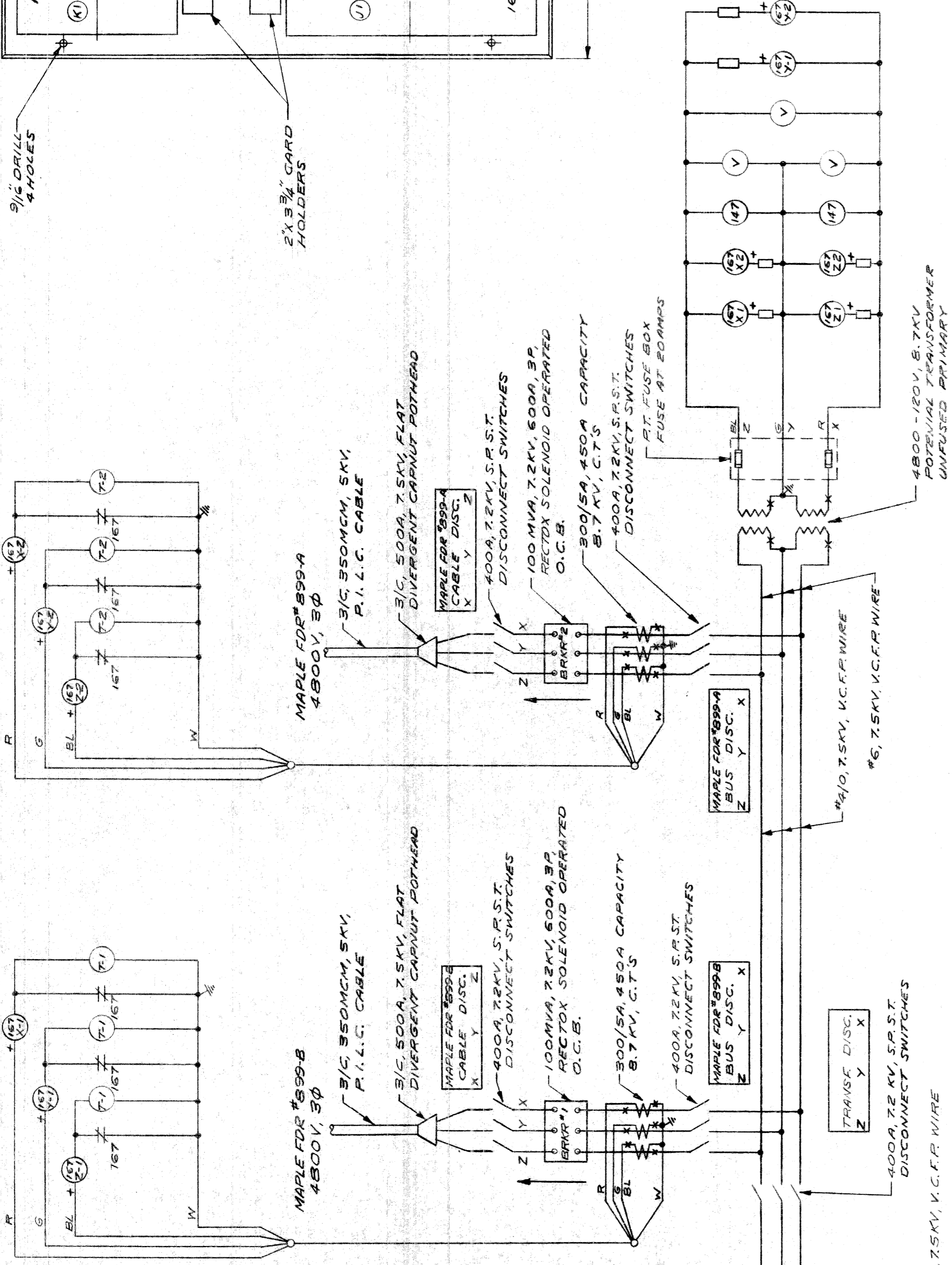
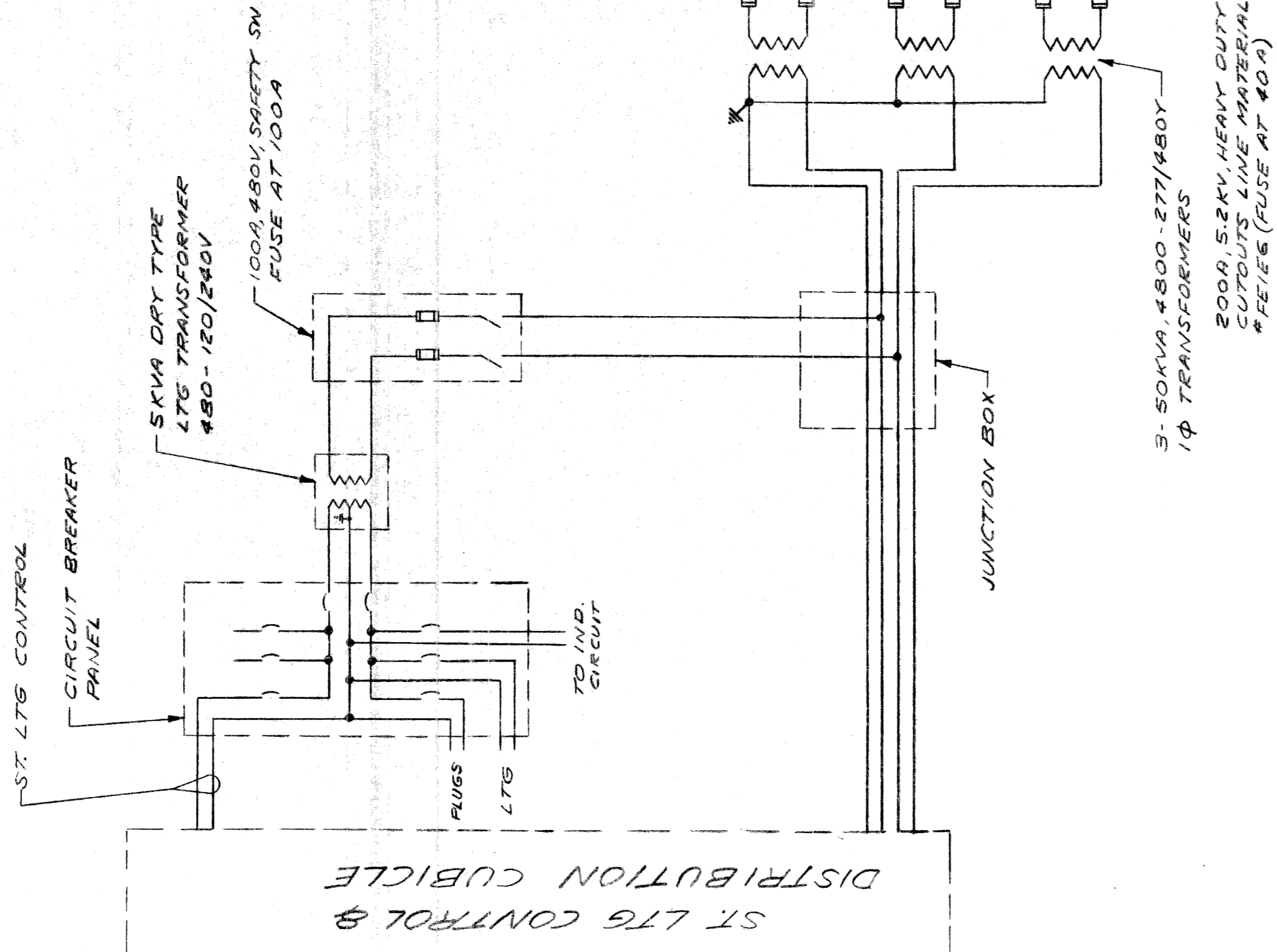
CITY OF DETROIT PUBLIC LIGHTING COMMISSION STREET LIGHTING TRANSFORMER ROOM SCALE 3/4" = 1'-0"	DRAWN BY	FILE NO.
	T.R.L. R.J.	58-6
	CHECKED BY	SHEET NO.
	8 OF 10	
	APPROVED BY	DATE
		8-9-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

REVISIONS	
NO.	DESCRIPTION

DATE BY

82III-C14



RELAY PANELS  
SCALE 3/16" = 1"  
1 OF EACH REQ'D

NOTE:  
1. HINGE BOTH PANELS SEE P.L.C. DRAWING  
2. LIMITING RESISTORS FOR POTENTIAL COILS OF DIRECTIONAL RELAYS (#167) TO BE MOUNTED ON REAR OF PANELS

LEGEND

167	DIRECTIONAL OVERCURRENT RELAY
147	PHASE SEQUENCE & UNDERVOLTAGE RELAY
174-1	AUXILIARY VOLTAGE RELAY
V	POTENTIAL INDICATING VOLTMETER
152-1	AUXILIARY OIL CIRCUIT BREAKER CONTACTS
152-2	OIL CIRCUIT BREAKER TRIP COILS
101	OIL CIRCUIT BREAKER CONTROL SWITCH
143	MANUAL TO AUTOMATIC TRANSFER SWITCH
179	RECLOSING RELAY
174-2	AUXILIARY VOLTAGE RELAY

CLOSING SWITCH LEGEND

NUMBER REQ'D FOR EACH PANEL	CONTACT	CLOSE	NORMAL AFTER CLOSE	TRIP
1	SC	X	X	
2	O		X	X
1	C	X		
1	T			X

X DENOTES CONTACTS CLOSED

NOTE:  
ALL NON-CURRENT CARRYING METALLIC PARTS TO BE GROUNDED INCLUDING DOOR FRAMES, LOUVERS & CABLE SHEATHS

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
STREET LIGHTING TRANSFORMER ROOM

DRAWN BY: T.R.L.  
CHECKED BY: [Signature]  
APPROVED BY: [Signature]

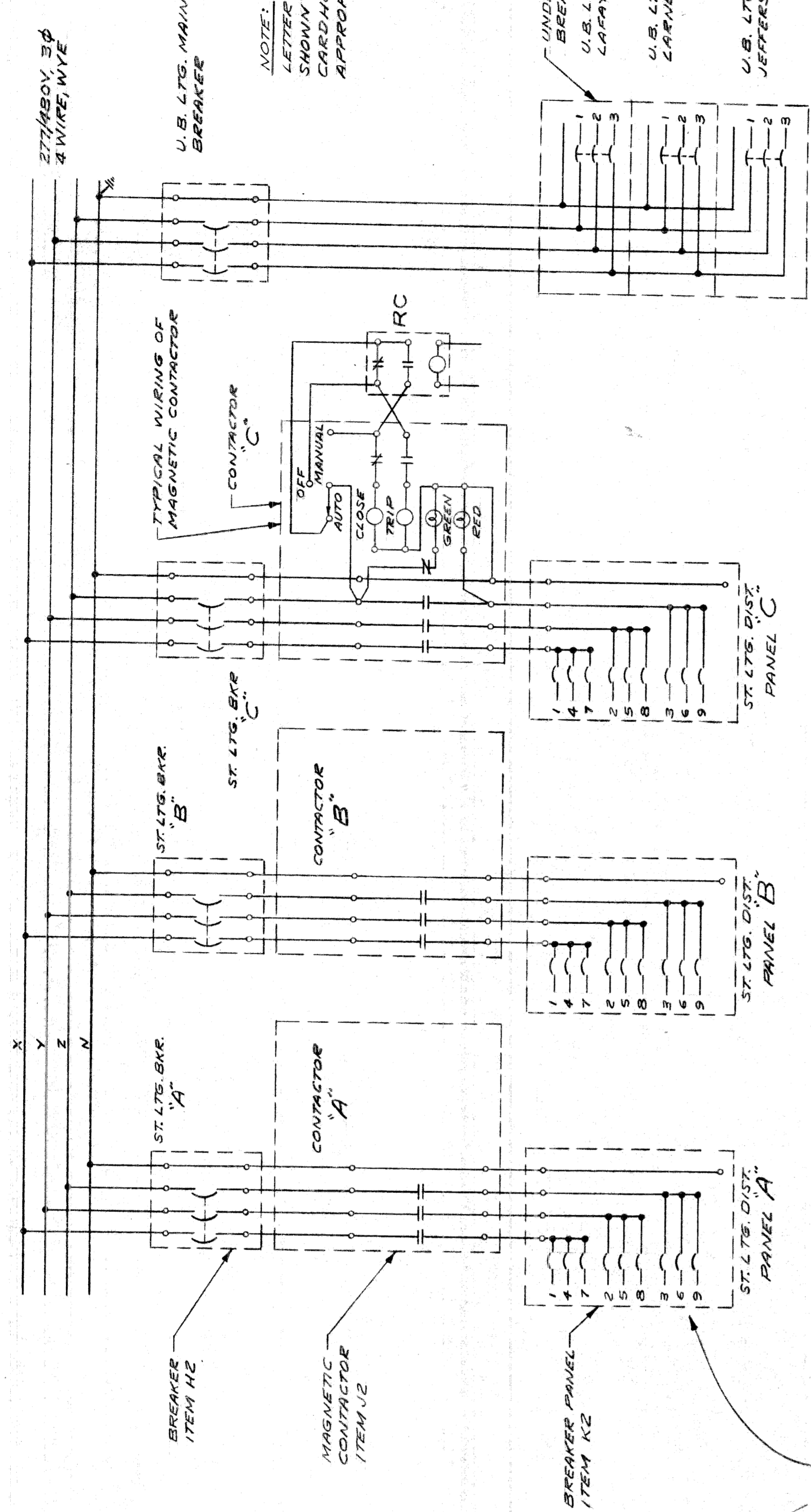
FILE NO.: 58-6  
SHEET NO.: 9 OF 10  
DATE: 8-9-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

NOTE:  
SEE SHEET #10 OF 10 FOR CONTINUATION OF SCHEMATIC

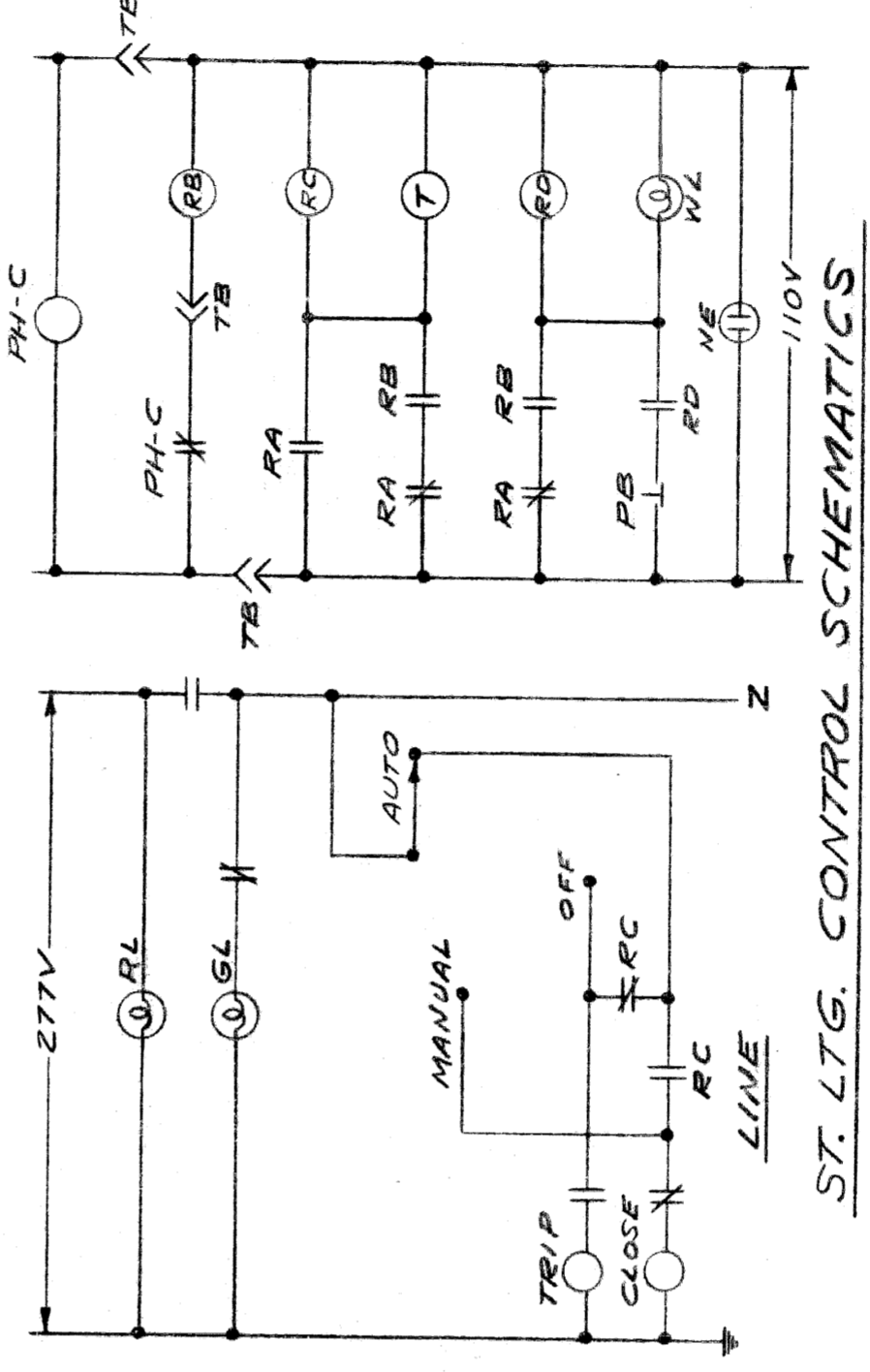
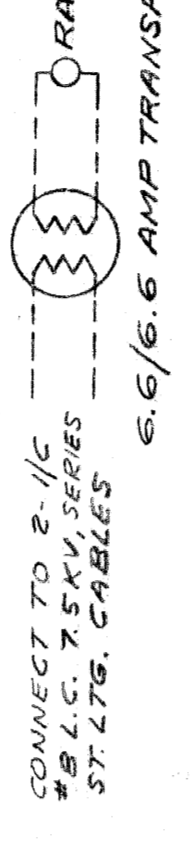
NO.	REVISIONS	DATE	BY

82111-C14

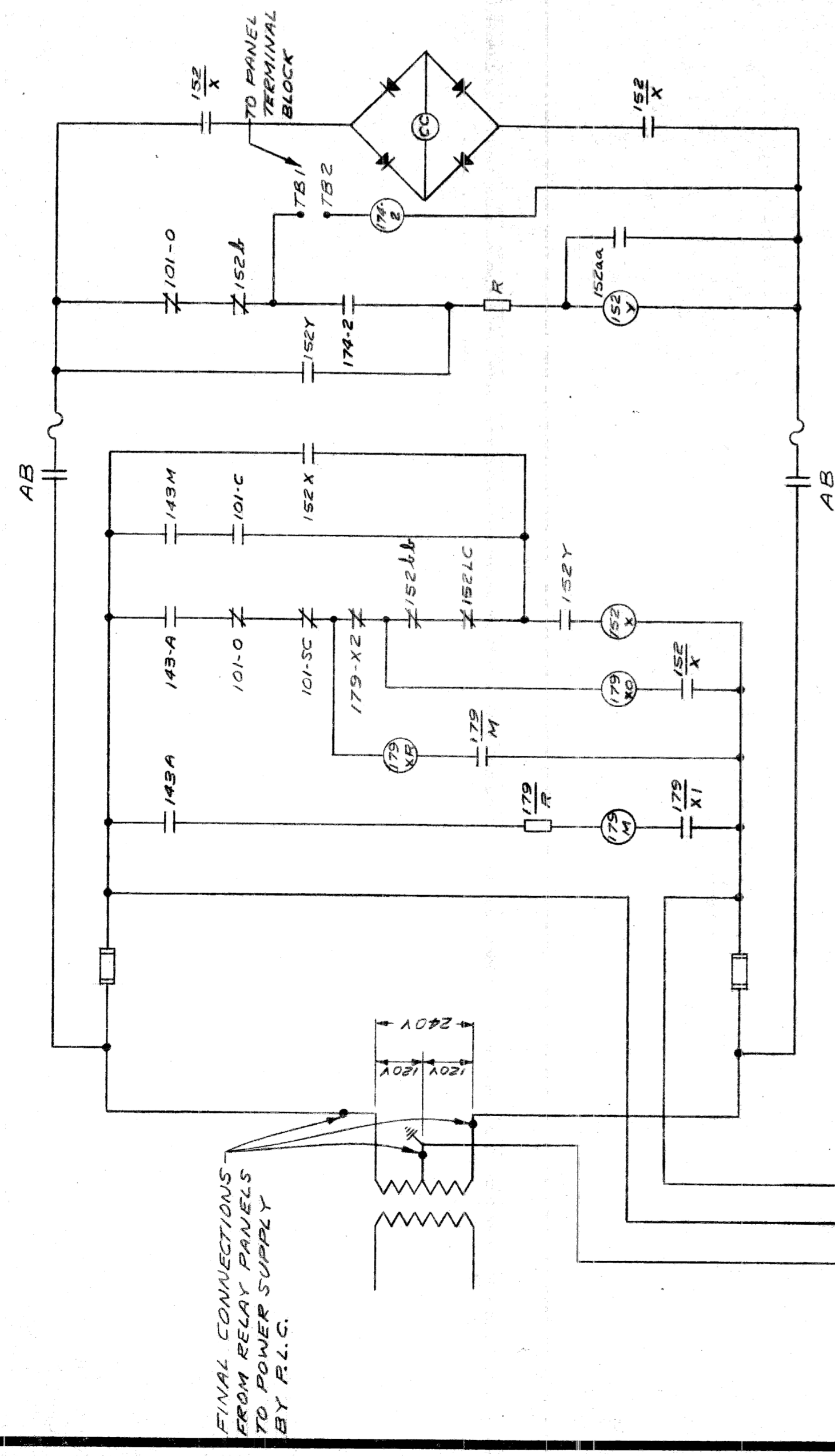


WIRING DIAGRAM OF ST. L.T.S. CONTROL DIST. CUBICLE

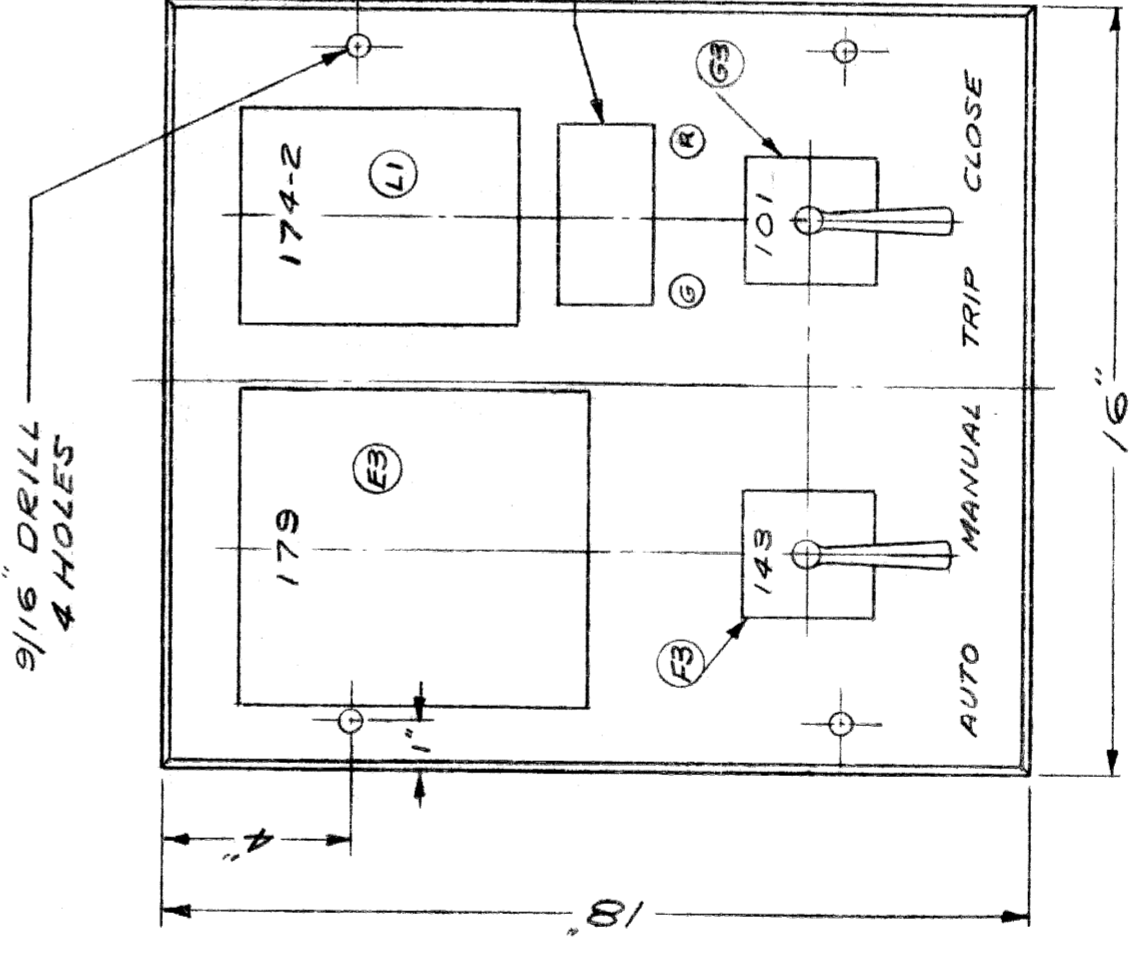
LOCATION OF ST. L.T.S. & SEQUENCE NUMBERS SHALL BE SHOWN ON DIRECTORY NEXT TO APPROPRIATE CIRCUIT NUMBERS



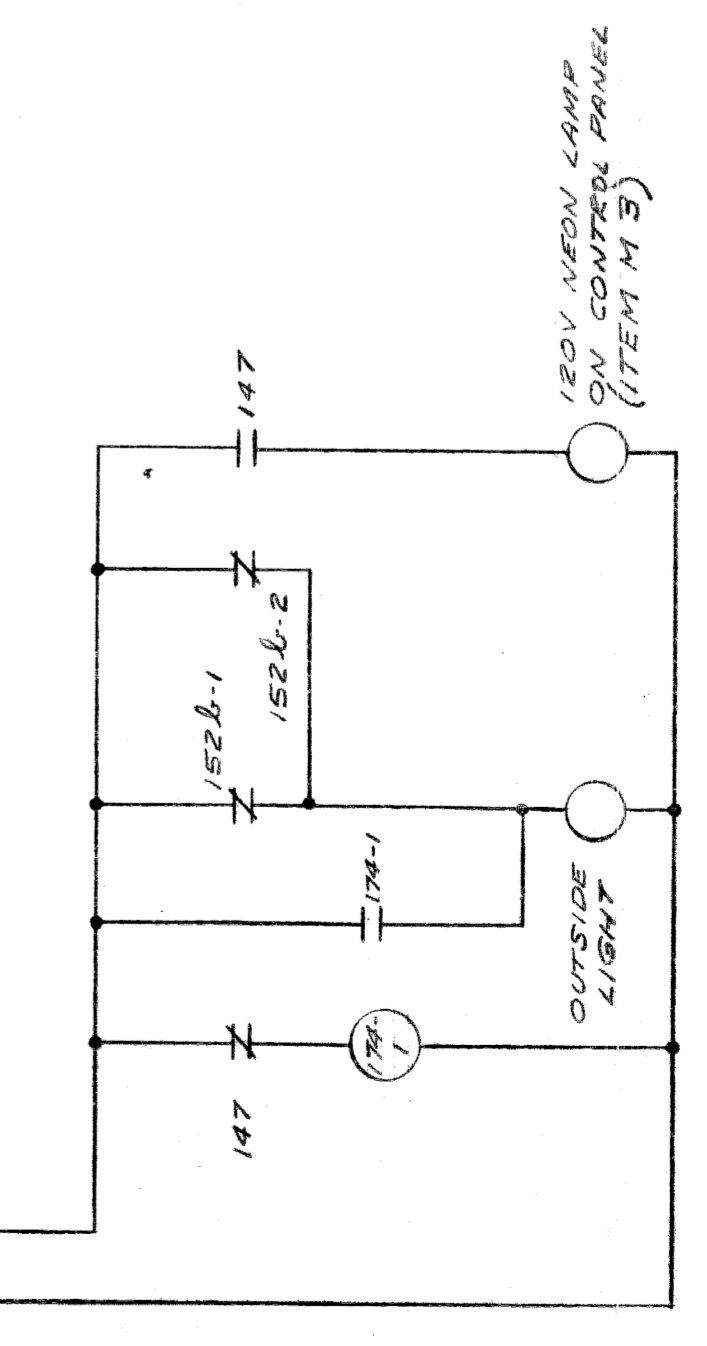
ST. L.T.G. CONTROL SCHEMATICS



PRIMARY BREAKER CONTROL SCHEMATIC



RELAY PANEL 2 REQUIRED



120V NEON LAMP ON CONTROL PANEL (ITEM M3)

CITY OF DETROIT  
 PUBLIC LIGHTING COMMISSION  
 STREET LIGHTING  
 TRANSFORMER ROOM

DRAWN BY T.R.L.  
 CHECKED BY [Signature]  
 APPROVED BY [Signature]

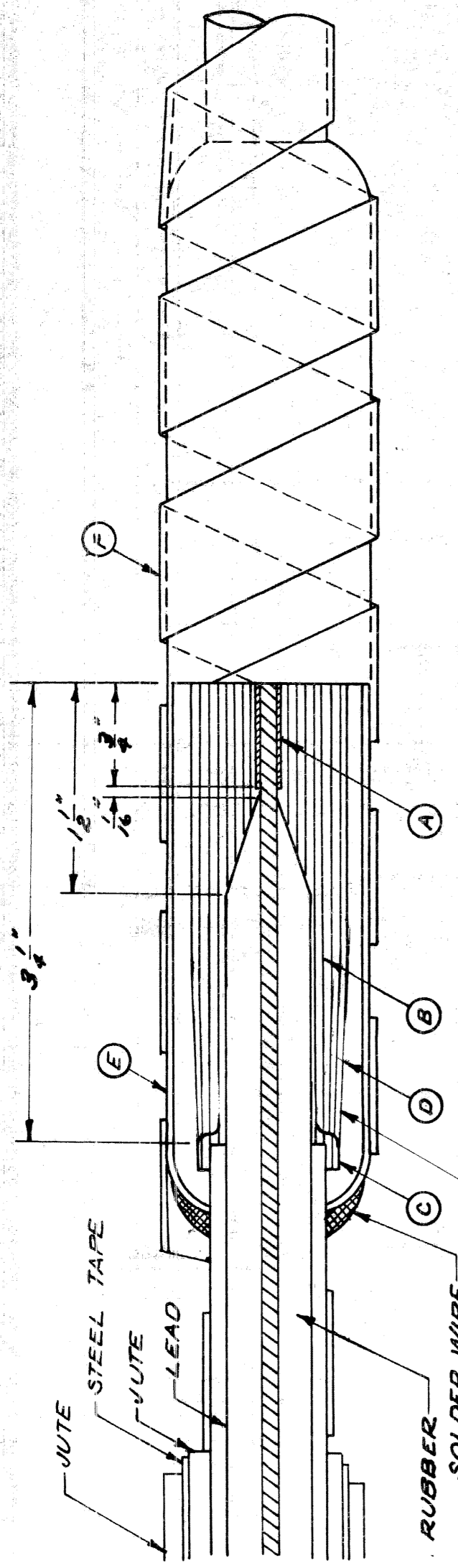
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 DATE 8-9-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
 WALTER P. CHRYSLER EXPRESSWAY

REVISIONS

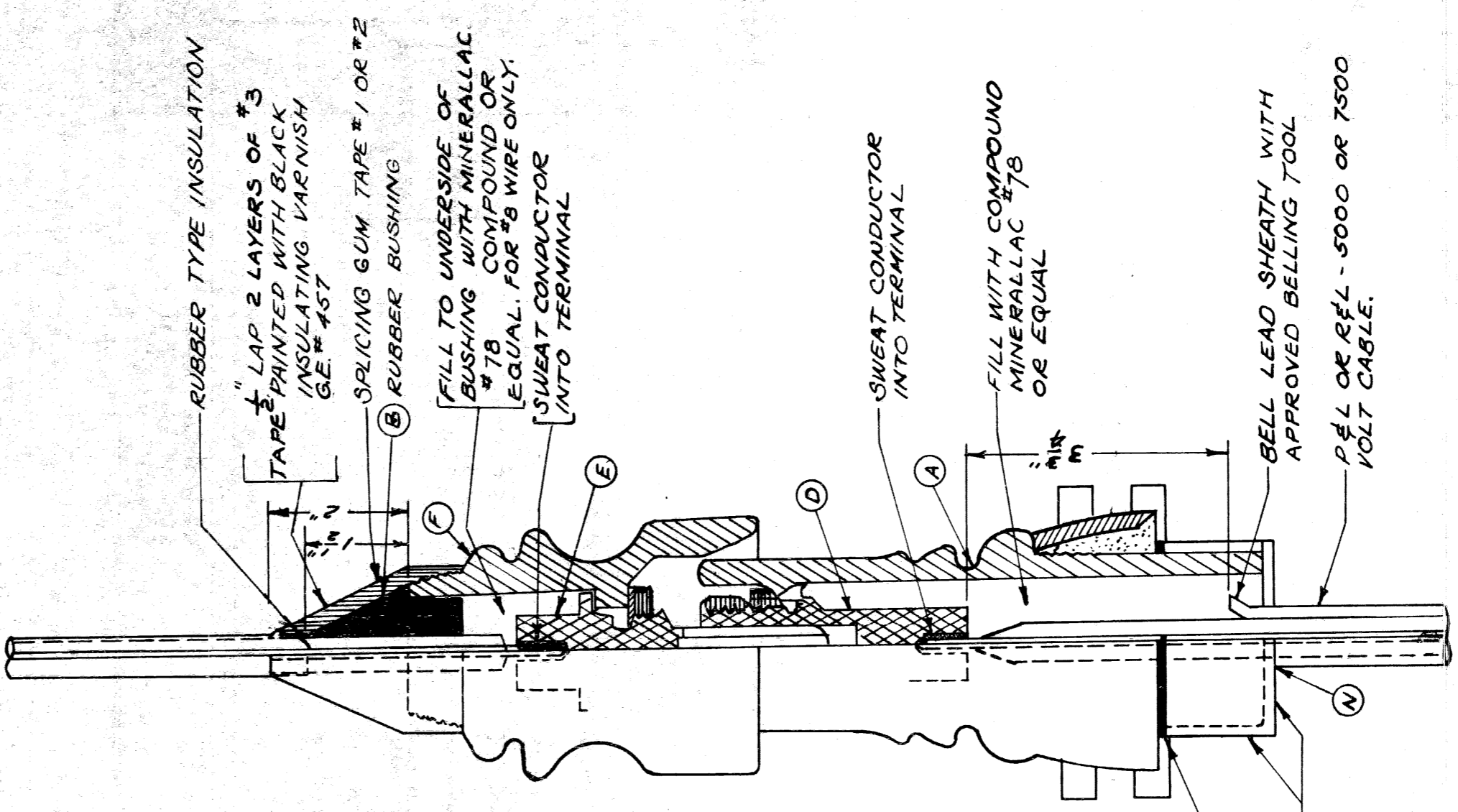
NO.	DESCRIPTION	DATE	BY

8211-C14



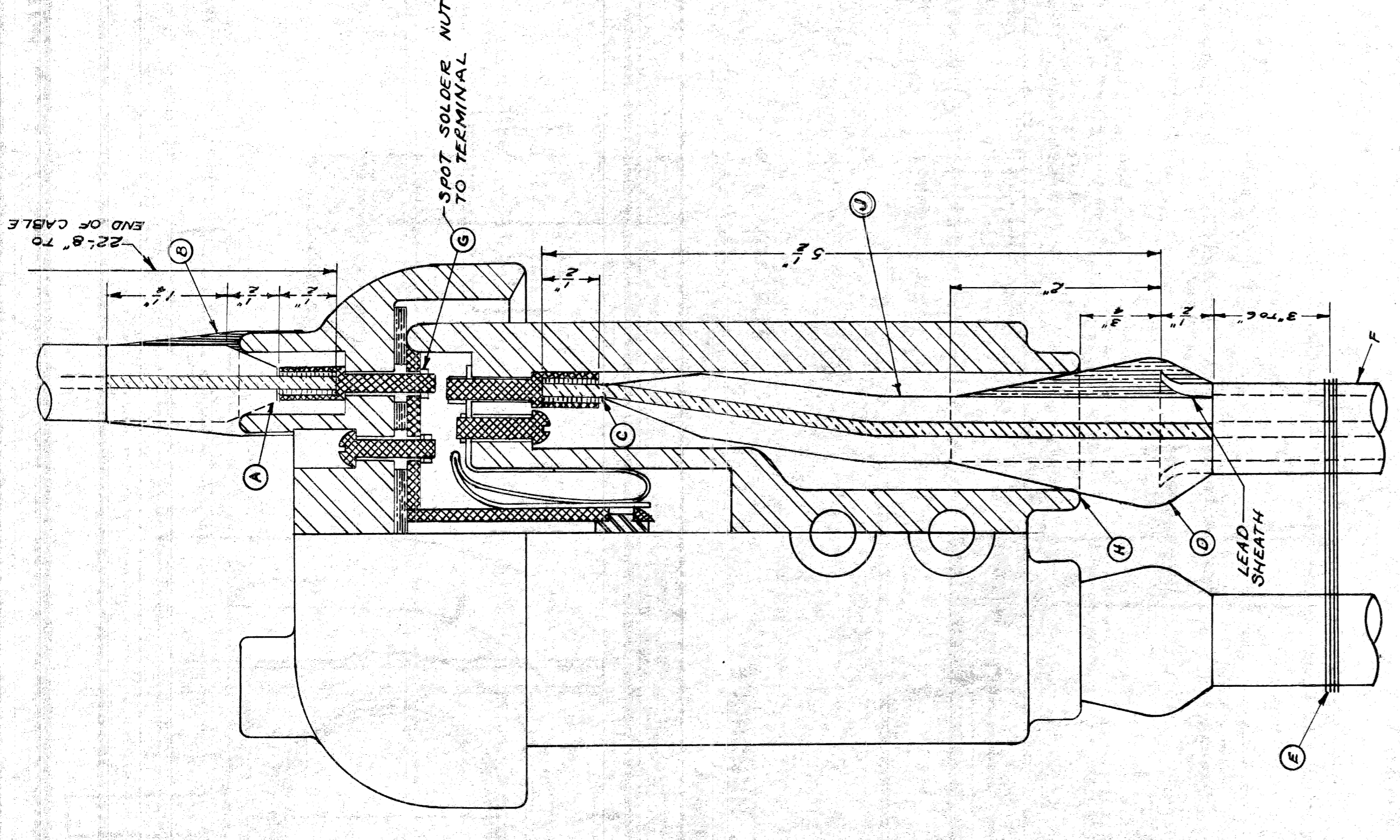
- NOTE: THIS JOINT IS TO BE MADE WITH COMPOUND.
1. #8 COPPER SLEEVE 1 1/2" LONG TIGHTLY CLOSED AND SWEATED.
  2. TAPE #1 OR #2 TO BE BUILT TO A SIZE 50% GREATER THAN THE ORIGINAL INSULATION DIAMETER.
  3. TWO THICKNESSES TAPE #1 OR #2 TO BE BROUGHT OVER LEAD.
  4. ONE LAYER OF #3 TAPE.
  5. 1/4" X 8" X 1/8" WALL LEAD SLEEVE.
  6. STEEL TAPE TO BE REELED FROM CABLE AND SOLDER WIRE TO BE SOLDERED TO BOTH TAPE. SOLDER TO BE WRAPPED OVER SPICE AND TIED WITH WIRE.

**#8 PARKWAY CABLE JOINT**  
 (R.I.L.C. JOINT SIMILAR EXCEPT FOR JUTE AND ARMOR)



- NOTES FOR 1/8 POTHEAD.
1. CUT LEAD SHEATH AND CHIP OFF WITH CHIPPING IRON. DO NOT BREAK OFF BY BENDING. SLID THE LEAD CUP OVER THE CABLE. BELL THE LEAD SHEATH TO STRIP OFF THE BRAID AROUND THE RUBBER TO WITHIN 1/2" OF THE LEAD SHEATH. REMOVE WAX & FOREIGN MATTER FROM CONDUCTORS INTO TERMINAL (C) AND PENCIL RUBBER INSULATION (D) AS SHOWN.
  2. FIRMLY MOUNT THE TERMINAL (C) IN THE PORCELAIN HOUSING. (C) INVERT THE POTHEAD AND FILL WITH MINERAL LAC #78 COMPOUND OR EQUAL. (78 WIRE ONLY)
  3. AFTER THE COMPOUND HAS SET BUT WHILE STILL SOFT, GRASP THE POTHEAD AND SLID IT INTO PLACE. AND SWEAT TO CABLE SHEATH AT (E).
  4. TRAIN THE CABLE AND MOUNT THE POTHEAD ON CROSSARM.
  5. SLIP THE CONE SHAPED RUBBER BUSHING (D) OVER THE CONDUCTOR.
  6. SWEAT THE CONDUCTOR IN TERMINAL (C) & PENCIL THE RUBBER INSULATION AS SHOWN. THE CAP (A) & FILL TO UNDERSIDE OF RUBBER BUSHING WITH MINERAL LAC #78 COMPOUND OR EQUAL. (78 WIRE ONLY)
  7. BUILD UP WITH TAPE #1 OR #2 THE GAP AND CARRY AROUND THE LEAD SHEATH WITH 2 LAYERS OF TAPE #3 TAPE AND COVER WITH 2 LAYERS OF TAPE #3 TAPE AND PAINT WITH G.E.#457 BLACK INSULATING VARNISH.
  8. BELL LEAD SLEEVE APPROX. 2" X 1 1/4" LONG DEPENDING ON POTHEAD USED TO FIT SAUPLY OVER BOTTOM OF POTHEAD PORCELAIN HOUSING. SWEAT TO FIT OVER OPENING, SWEAT TOGETHER TO FORM A CUP & SWEAT TO THE CABLE SHEATH.

**1/8 7500 V. POTHEAD**



- A. SWEAT TERMINAL & PENCIL RUBBER INSULATION TO FIT SAUPLY OVER SPICE OPENING. OPENING IS COMPLETELY AND TIGHTLY FOLDED.
- B. BUILD UP WITH TAPE #1 OR #2 AS SHOWN AND COVER WITH ONE COAT OF BLACK INSULATING VARNISH, G.E.#457.
- C. SWEAT CONDUCTOR INTO TERMINAL & PENCIL RUBBER INSULATION AS SHOWN.
- D. CUT LEAD SHEATH AND CHIP OFF WITH CHIPPING IRON. DON'T BREAK OFF BY BENDING. BELL THE LEAD SHEATH. THEN STRIP OFF THE BRAID AROUND THE RUBBER TO WITHIN 1/2" OF LEAD SHEATH. APPLY A COAT OF OKONITE RUBBER CEMENT IN BELL OF SHEATH AND HAVING CRACKS TO FORM STIFFNESS BETWEEN CABLE AND PORCELAIN HOUSING. COVER THE SPACING GUM WITH 2 LAYERS OF #3 TAPE AND PAINT WITH BLACK INSULATING VARNISH, G.E.#457.
- E. #18 SERVICE WIRE OR BRAID WEARS BETWEEN CABLES AND SWEATED TO LEAD SHEATH FOR BOND. TIE TO GROUND WIRE.
- F. FOR PARKWAY CABLE, WIRE AND STEEL TAPE STRIPPED OFF TO NEAR DUCT ENTRANCE.
- G. REMOVE WAX AND ANY FOREIGN MATTER FROM END OF BRAID TO TERMINAL BEFORE APPLYING ANY INSULATION.

**#8 PARKWAY OR L.C.R.I. CABLE CONNECTIONS FOR SERIES CUTOUT**

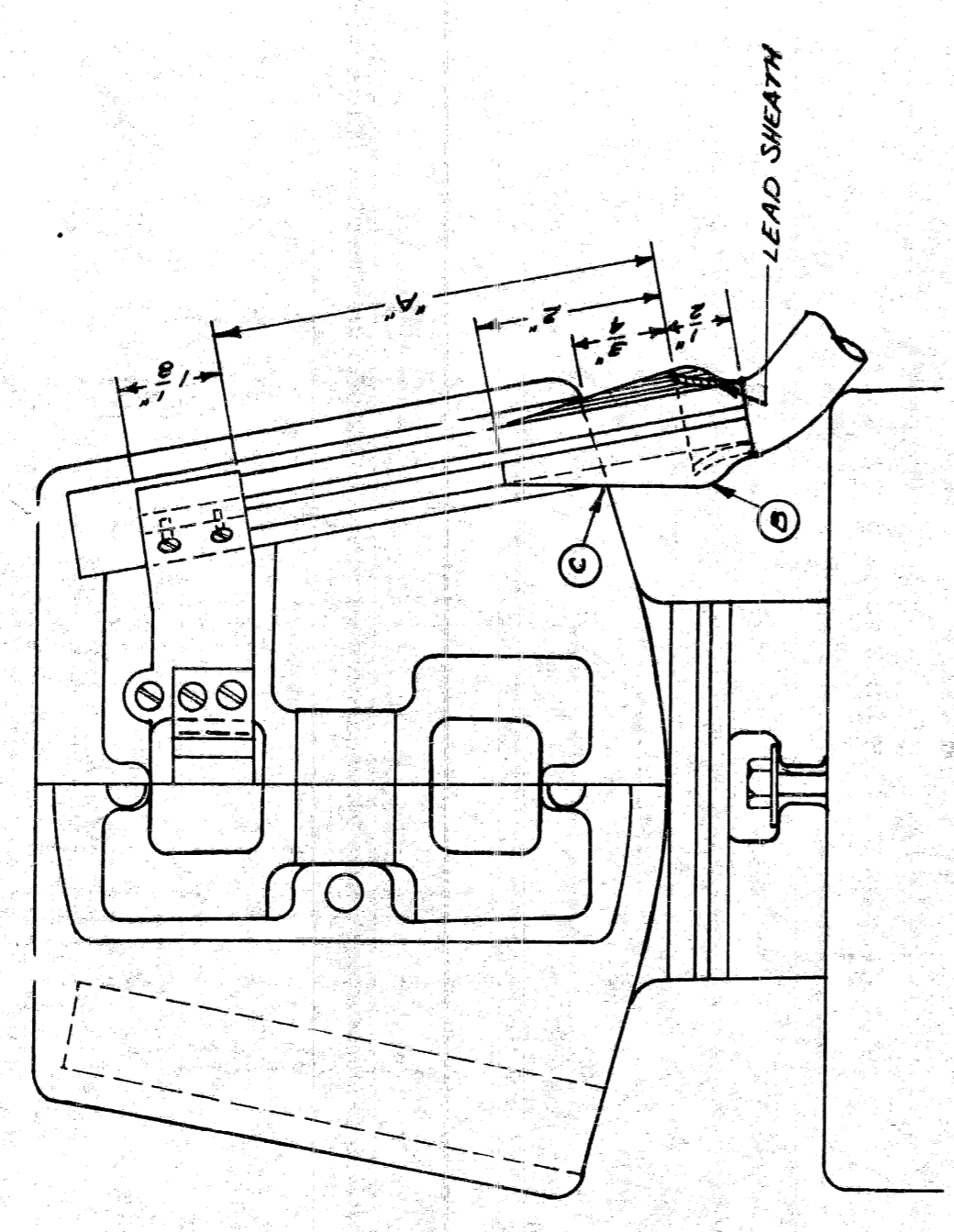
NO.	REVISION	DATE	BY	DATE
1	TAPE FOR COIL CHGD.	4-20-48	J.M.C.	
2	#8 P.D. FOR SERIES CUTOUT CHGD.	11-18-48	J.M.C.	
3	1/8 7500V POTHEAD CONNECTION CHGD.	7-24-50	J.M.C.	
4	TAPE CHGD. ON CUTOUT	4-7-51	J.M.C.	

APPROVED: \_\_\_\_\_  
 CHIEF BRIDGE DRAFTSMAN

APPROVED: \_\_\_\_\_  
 ENGINEER OF BRIDGE DESIGN

APPROVED: \_\_\_\_\_  
 BRIDGE ENGINEER

82111-C14



- A. THIS DISTANCE WILL VARY DEPENDING ON THE MAKE OF COIL USED.
- B. CUT LEAD SHEATH AND CHIP OFF WITH CHIPPING IRON. DON'T BREAK OFF BY BENDING. CUT OFF INSULATION FOR CONNECTION. BELL THE LEAD SHEATH THEN STRIP OFF THE BRAID AROUND THE RUBBER TO WITHIN 1/2" OF LEAD SHEATH. APPLY OKONITE RUBBER CEMENT IN BELL SHEATH. APPLY TAPE #1 OR #2 TO FORM A STRESS COVER. COVER THE SPACING GUM WITH 2 LAYERS OF TAPE #3 TAPE AND COVER WITH 2 LAYERS OF TAPE #3 TAPE AND PAINT WITH BLACK INSULATING VARNISH, G.E.#457. REMOVE WAX AND ANY FOREIGN MATTER FROM RUBBER INSULATION FROM END OF BRAID TO TERMINAL BEFORE APPLYING ANY INSULATION.

**SAFETY COIL AND SERIES CUTOUT**

**TAPE NOTE**

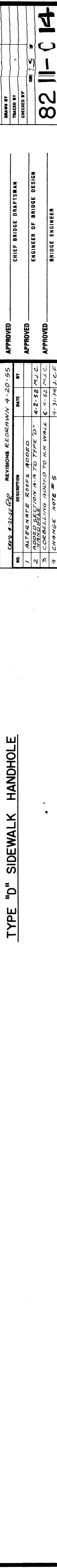
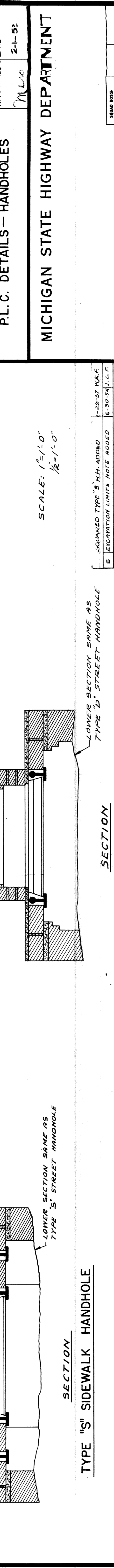
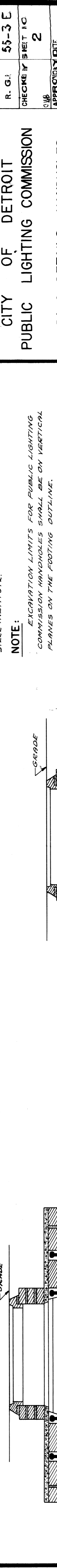
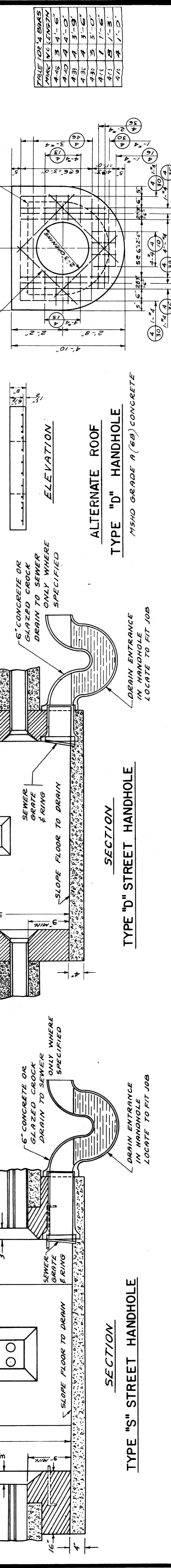
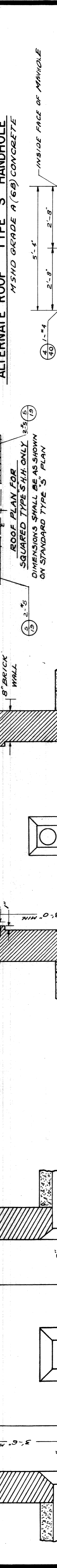
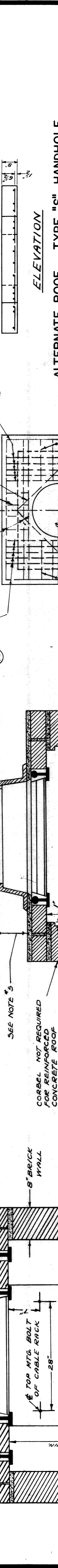
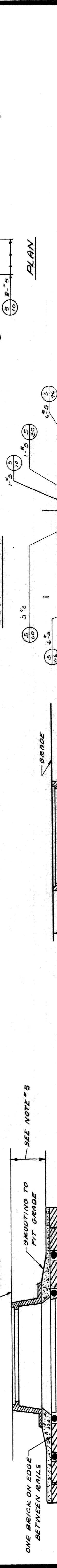
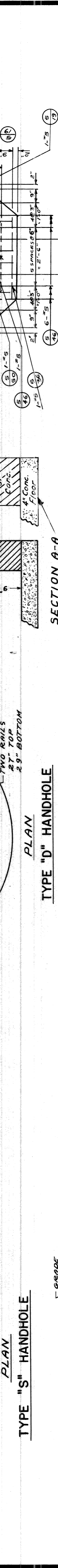
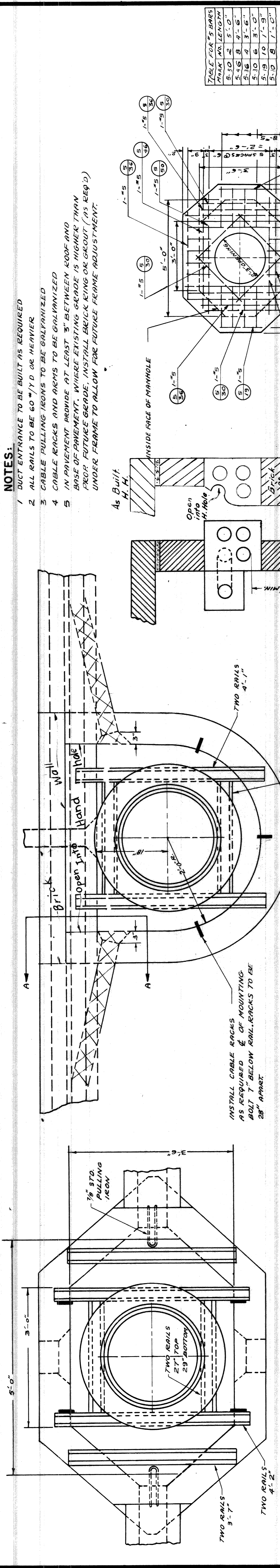
- TAPE #1 - JENKINS SPECIFICATION DIAMOND SEAL RUBBER TAPE  
 TAPE #2 - OKONITE CORONA RESISTING HIGH VOLTAGE RUBBER TAPE  
 TAPE #3 - 3M SCOTCH BRAND #3 ELECTRICAL TAPE OR APPROVED EQUAL.

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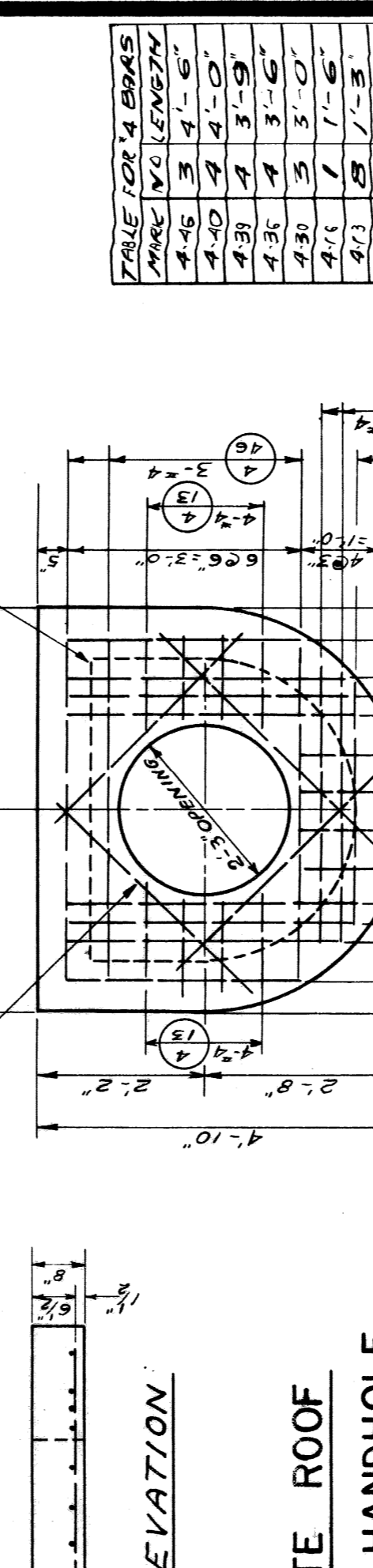
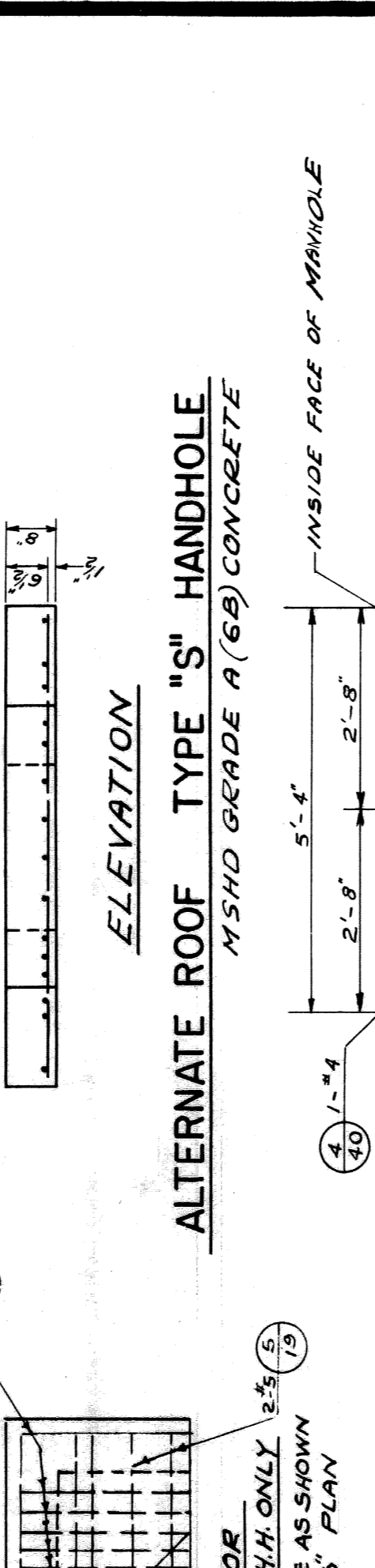
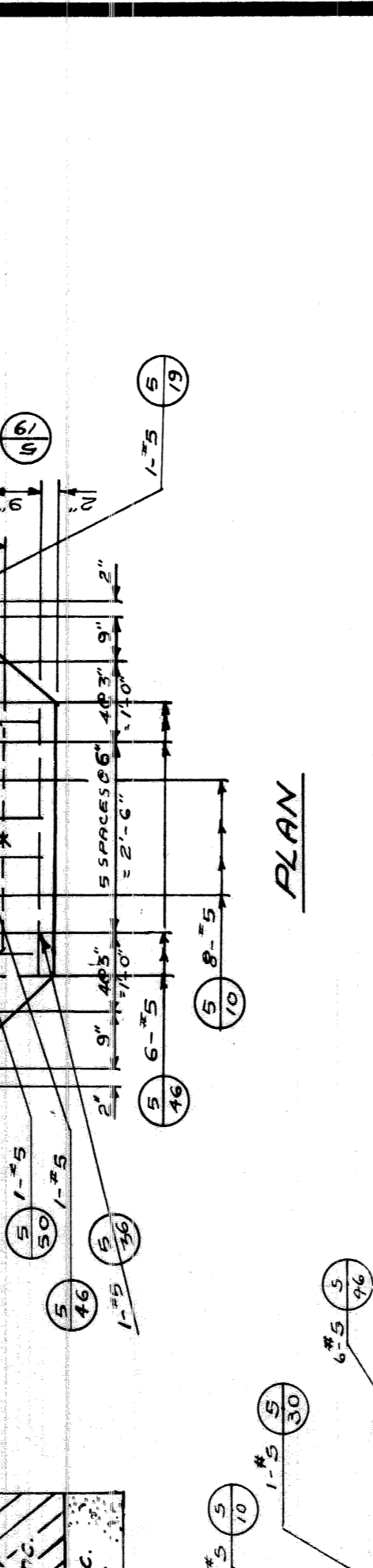
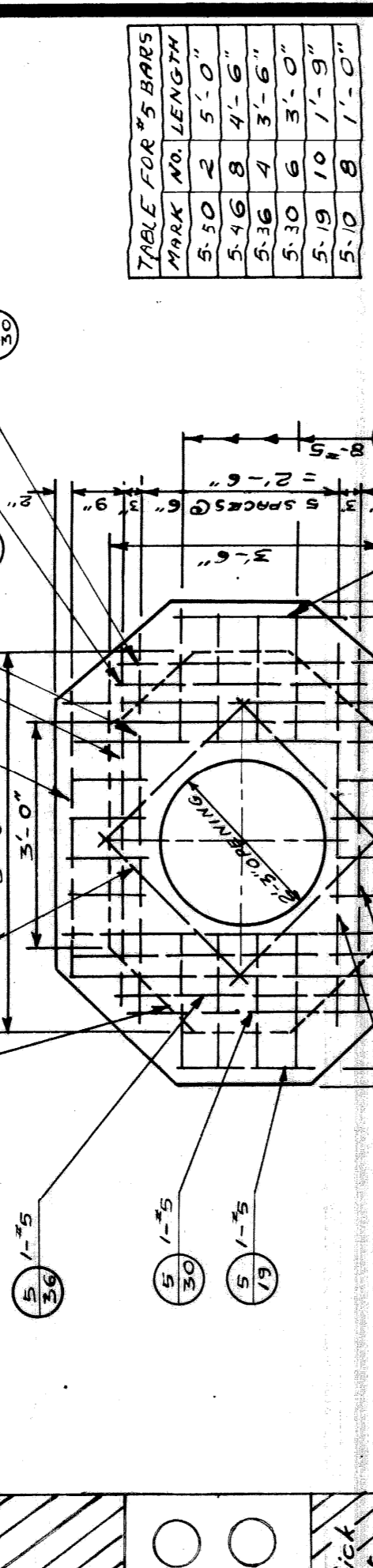
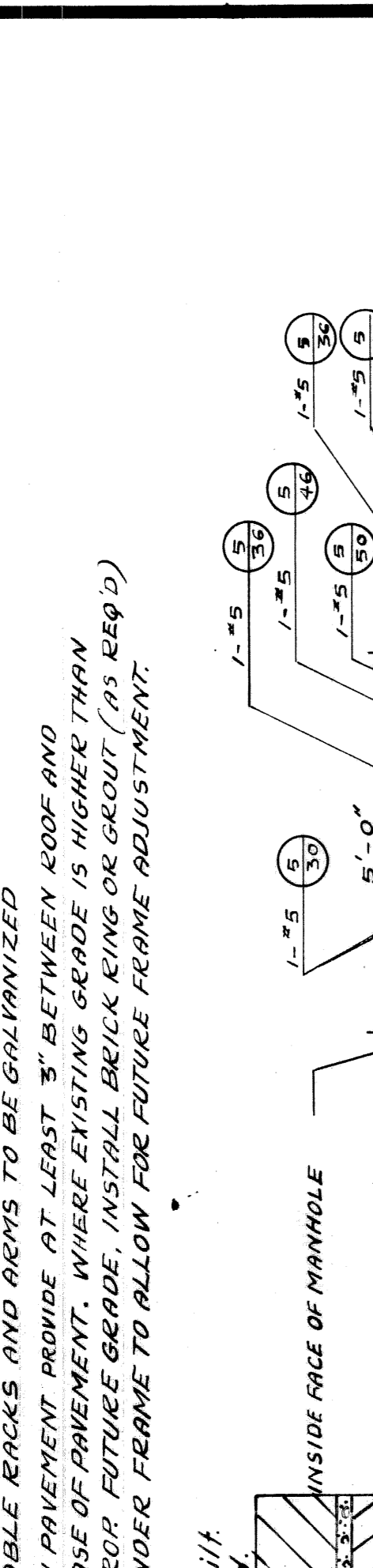
P.L.C. DETAILS - CABLE SPLICES  
 & CONNECTIONS

FILE NO. 55-374 I  
 DRAWN BY M.G.M.  
 CHECKED BY [Signature]  
 SHEET NO. 1  
 APPROVED BY [Signature]  
 DATE 1-31-52

**MICHIGAN STATE HIGHWAY DEPARTMENT**



- NOTES:**
- 1 DUCT ENTRANCE TO BE BUILT AS REQUIRED
  - 2 ALL RAILS TO BE 60 WYD OR HEAVIER
  - 3 CABLE PULLING IRONS TO BE GALVANIZED
  - 4 CABLE RACKS AND ARMS TO BE GALVANIZED
  - 5 IN PAVEMENT PROVIDE AT LEAST 3" BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROPOSED GRADE, INSTALL BRICK KING OR GROUT (AS REQ'D) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.



**TABLE FOR "S" BARS**

MARK	NO.	LENGTH
1-10	2	5'-0"
2-16	8	4'-6"
3-16	7	3'-6"
4-16	6	3'-0"
5-19	10	7'-0"
6-10	8	7'-0"

**TABLE FOR "D" BARS**

MARK	NO.	LENGTH
1-10	2	5'-0"
2-16	8	4'-6"
3-16	7	3'-6"
4-16	6	3'-0"
5-19	10	7'-0"
6-10	8	7'-0"

**NOTE:**  
BAR NUMBERS DENOTE THE SIZE OF BAR REQUIRED IN ACCORDANCE WITH CURRENT USAGE SPECIFIED BY THE CONCRETE REINFORCING STEEL INSTITUTE.

**NOTE:**  
EXCAVATION LIMITS FOR PUBLIC LIGHTING COMMISSION HANDHOLES SHALL BE ON VERTICAL PLANES ON THE FOOTING OUTLINE.

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

**REVISIONS**

NO.	DESCRIPTION	DATE	BY
1	ALTERED ROOFS ADDED	4-2-52	M.J.C.
2	ADDED SECTION A-A TO TYPE "D"	6-4-52	M.J.C.
3	CORRELLING ADDED TO H.H. WALL	6-4-52	M.J.C.
4	CHANGE NOTE #5	4-31-54	J.G.F.

APPROVED: \_\_\_\_\_  
CHIEF BRIDGE DRAFTSMAN

APPROVED: \_\_\_\_\_  
ENGINEER OF BRIDGE DESIGN

APPROVED: \_\_\_\_\_  
BRIDGE ENGINEER

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION

P.L.C. DETAILS - HANDHOLES

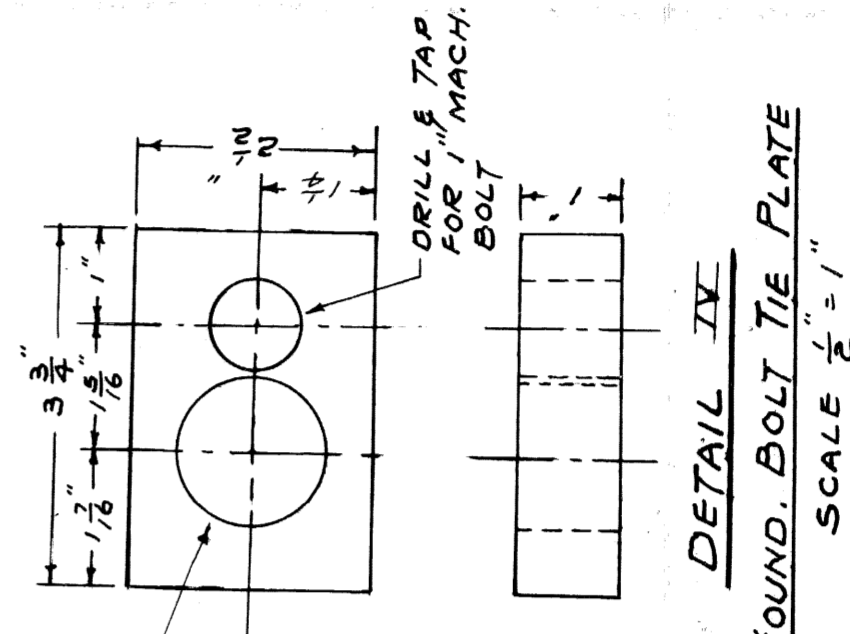
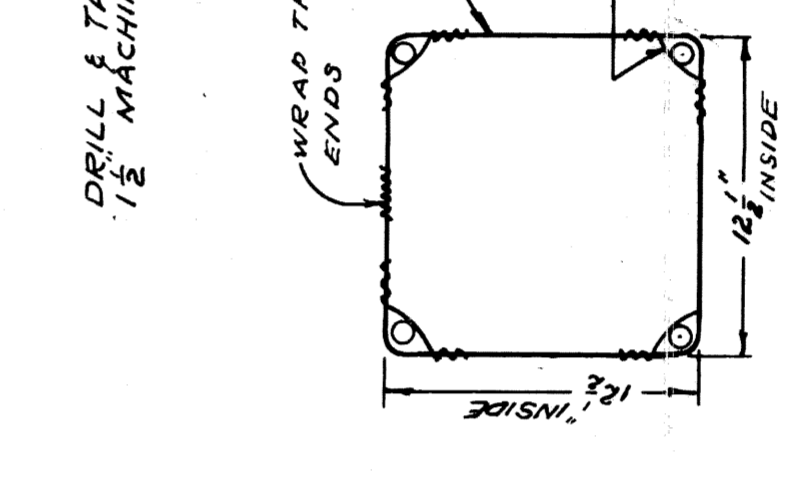
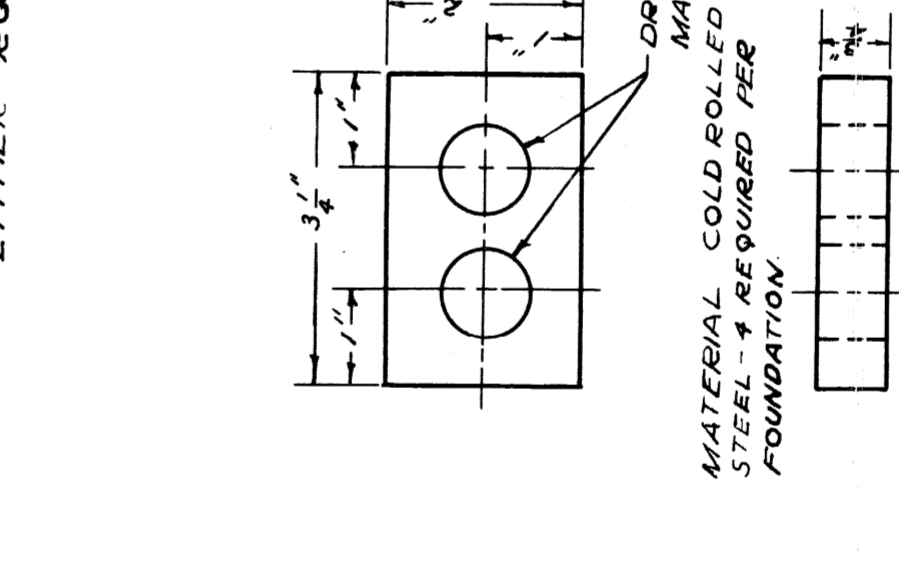
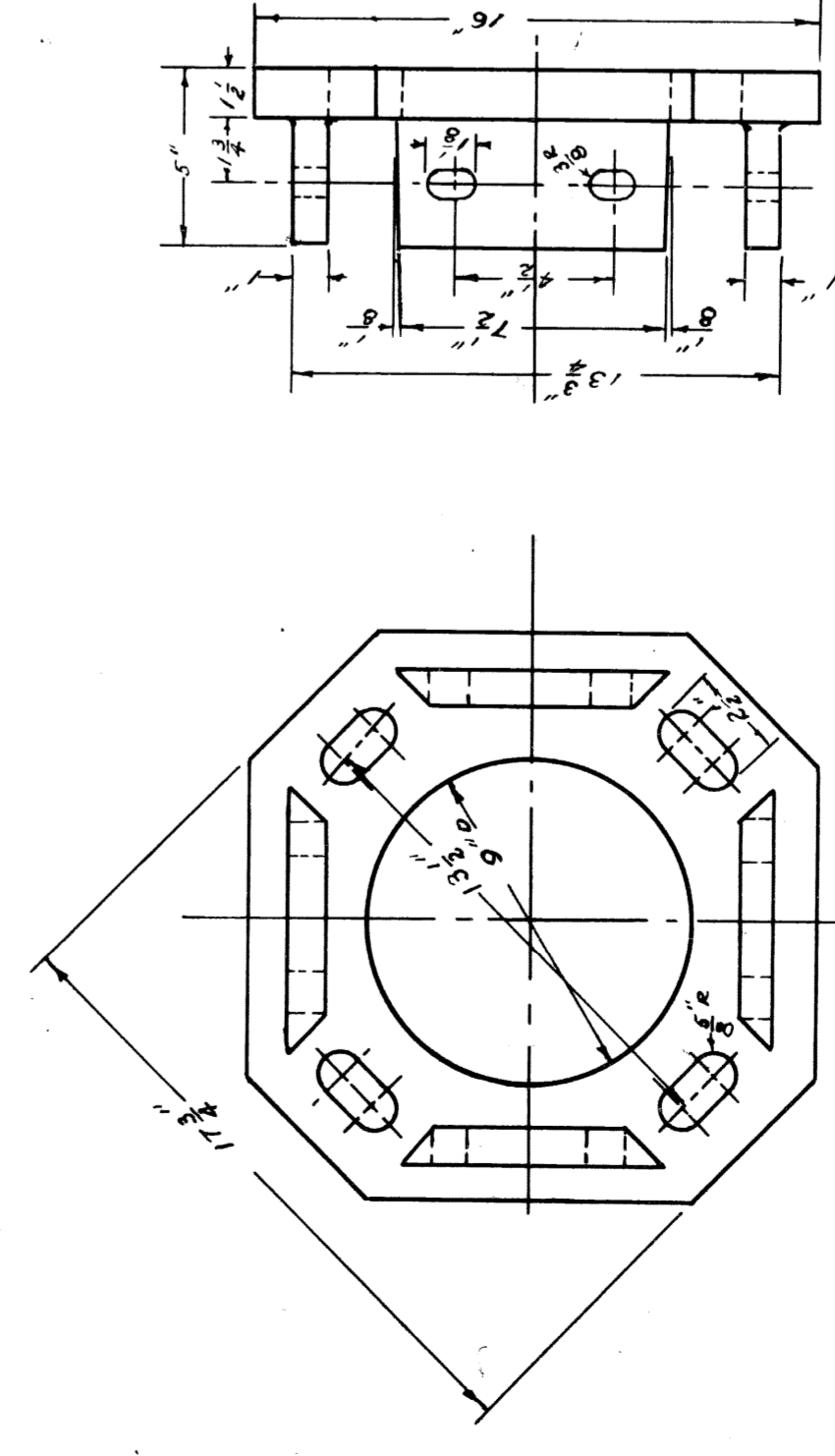
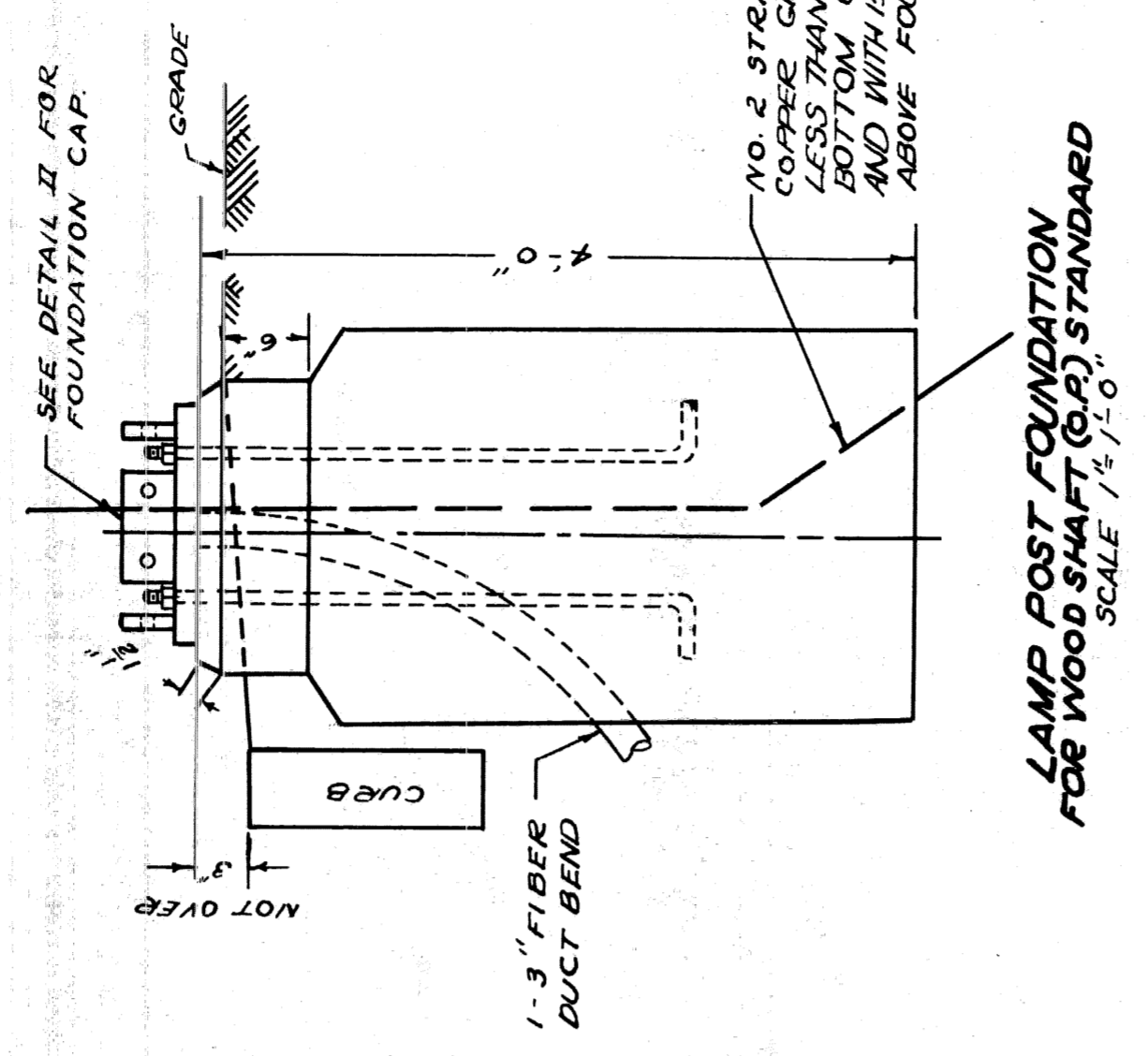
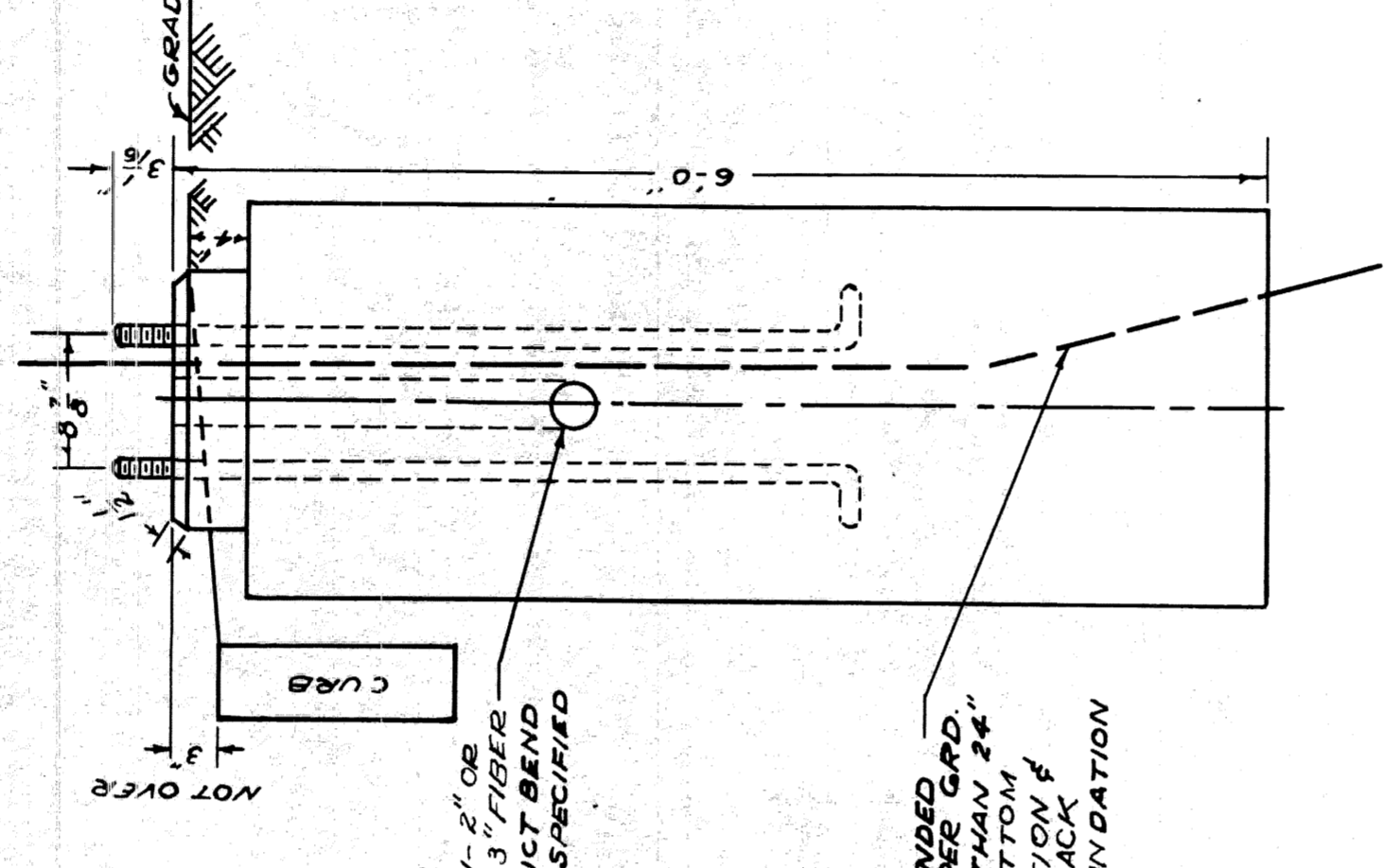
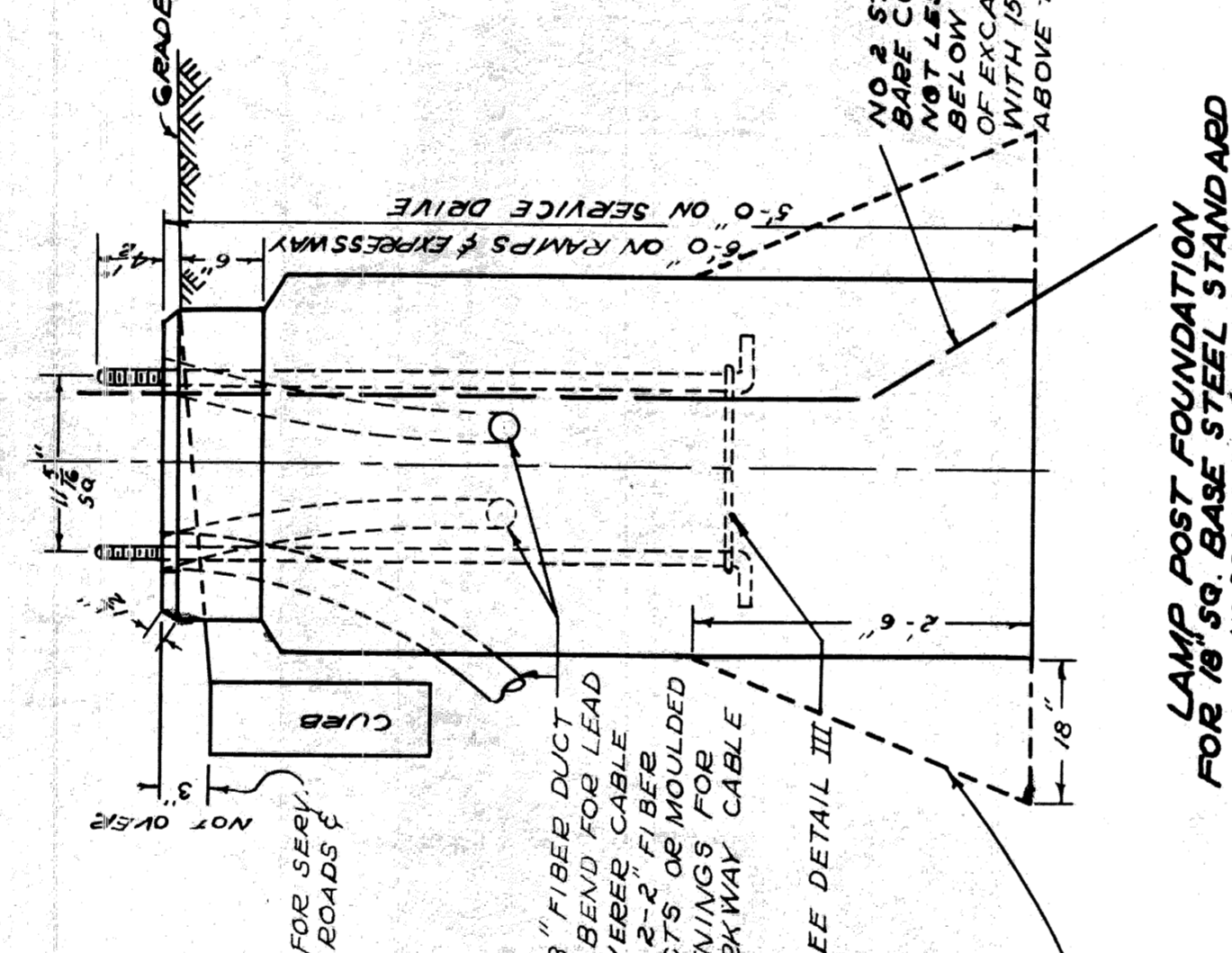
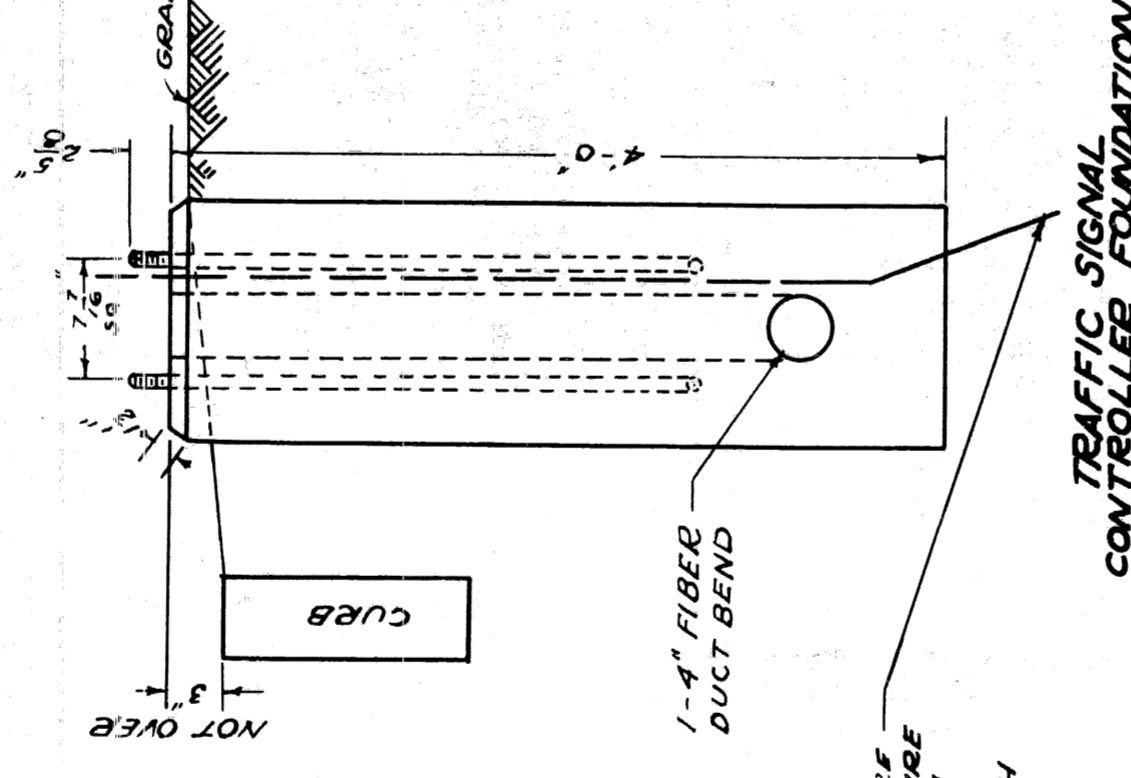
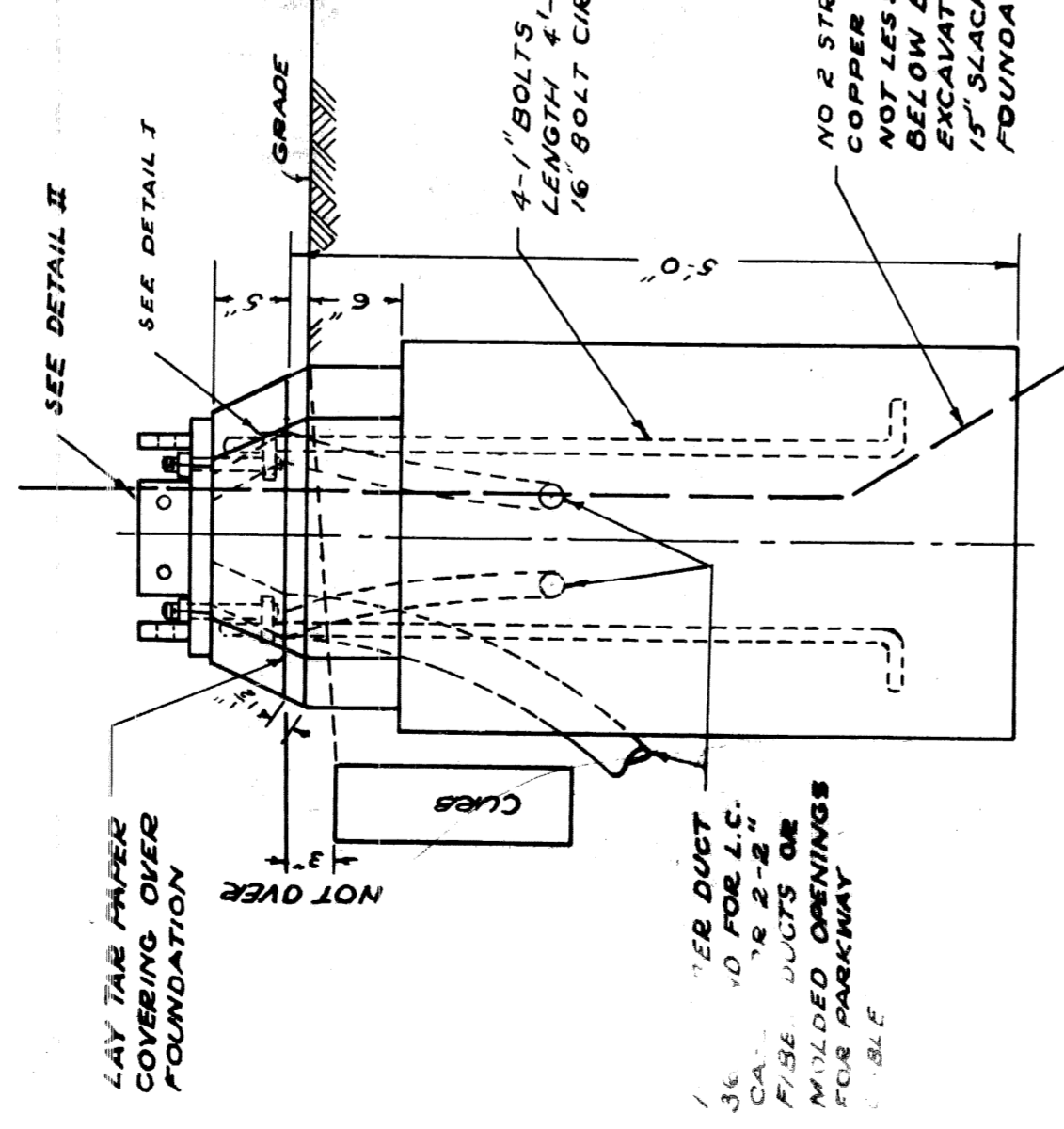
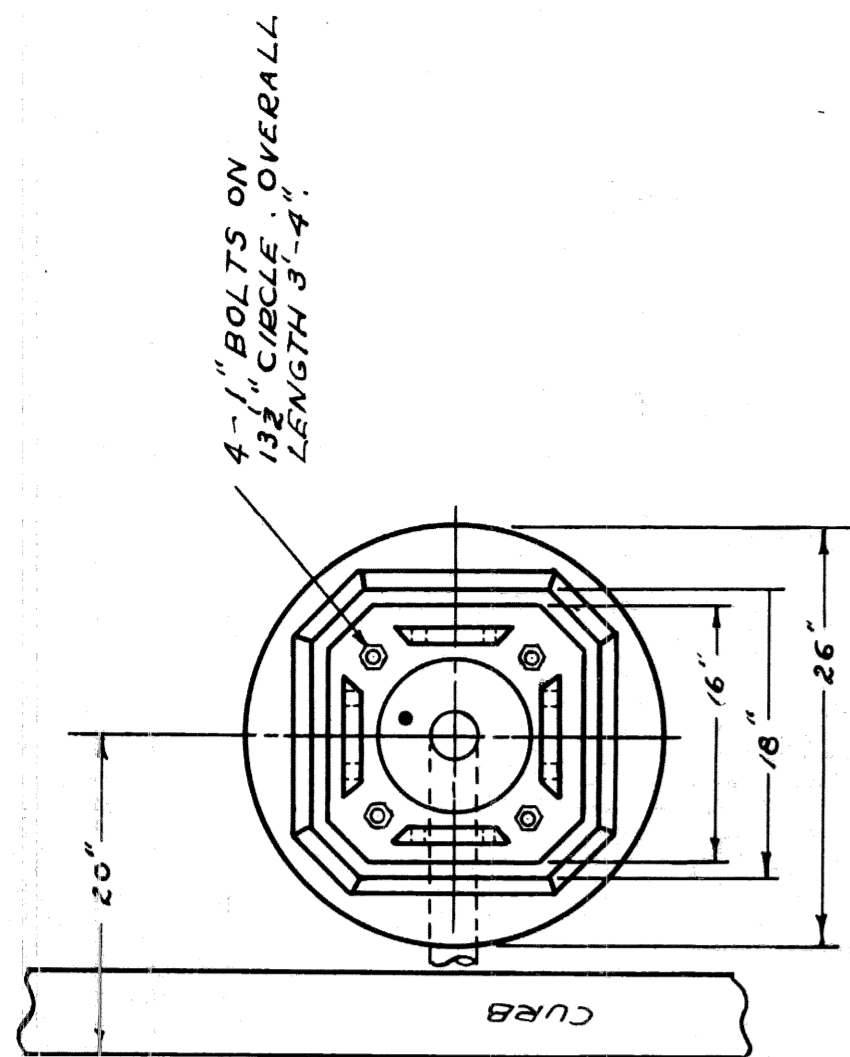
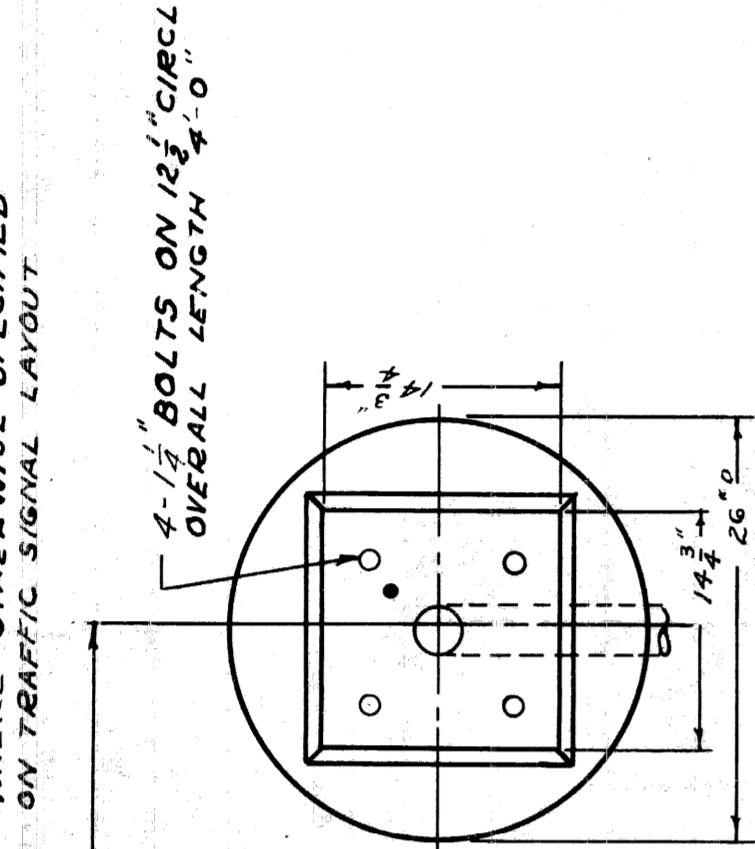
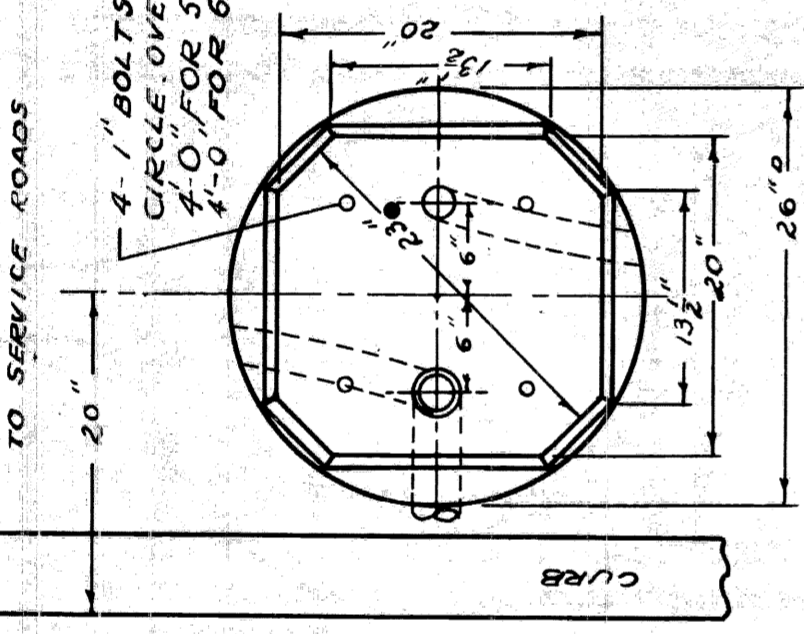
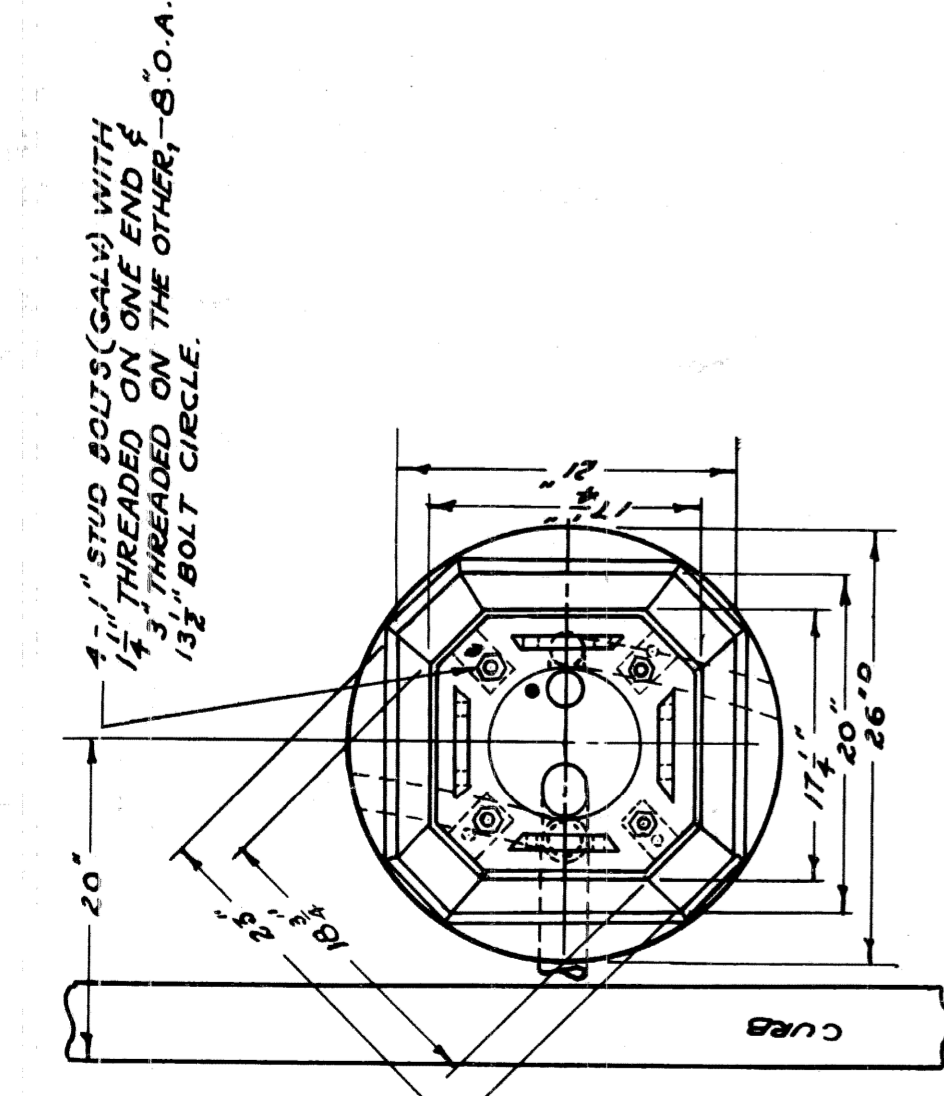
MICHIGAN STATE HIGHWAY DEPARTMENT

DRAWN BY: \_\_\_\_\_  
FILE NO.: 55-3 E

CHECKED BY: \_\_\_\_\_  
SHEET NO.: 2

APPROVED DATE: \_\_\_\_\_  
DATE: 2-1-52

82 II-C 14



**NOTE**  
 TYPICAL CABLE ENTRANCE DUCT SHOWN ACTUAL LOCATION TO FIT JOB USE EXPANSION JOINT FELT WHERE NECESSARY

**NOTE**  
 WIDEN FDN. AT BASE ALL AROUND AS SHOWN. WHERE FILL MATERIAL IS USED FDN. MAY BE EITHER ROUND OR SQUARE.

CITY OF DETROIT  
 PUBLIC LIGHTING COMMISSION  
 P.L.C. DETAILS POST FOUNDATIONS  
 MICHIGAN STATE HIGHWAY DEPARTMENT

FILE NO. 55-3F  
 SHEET NO. 3  
 DATE 2-7-52

DRAWN BY M.G.M.  
 CHECKED BY C.H.B.  
 APPROVED BY P.W.

APPROVED:

\_\_\_\_\_  
 CHIEF BRIDGE DRAFTERMAN

APPROVED:

\_\_\_\_\_  
 ENGINEER OF BRIDGE DESIGN

APPROVED:

\_\_\_\_\_  
 BRIDGE ENGINEER

82111-C14  
 SHEET 40

NO.	REVISIONS	REASON	DATE
1	ADDED NOTES TO SIGNAL	2-7-52	
2	ADDED NOTES TO SIGNAL	2-28-52	
3	ADDED NOTES TO SIGNAL	2-28-52	
4	ADDED NOTES TO SIGNAL	2-28-52	
5	ADDED DETAIL IV	5-10-52	
6	BASE STEEL	10-20-52	

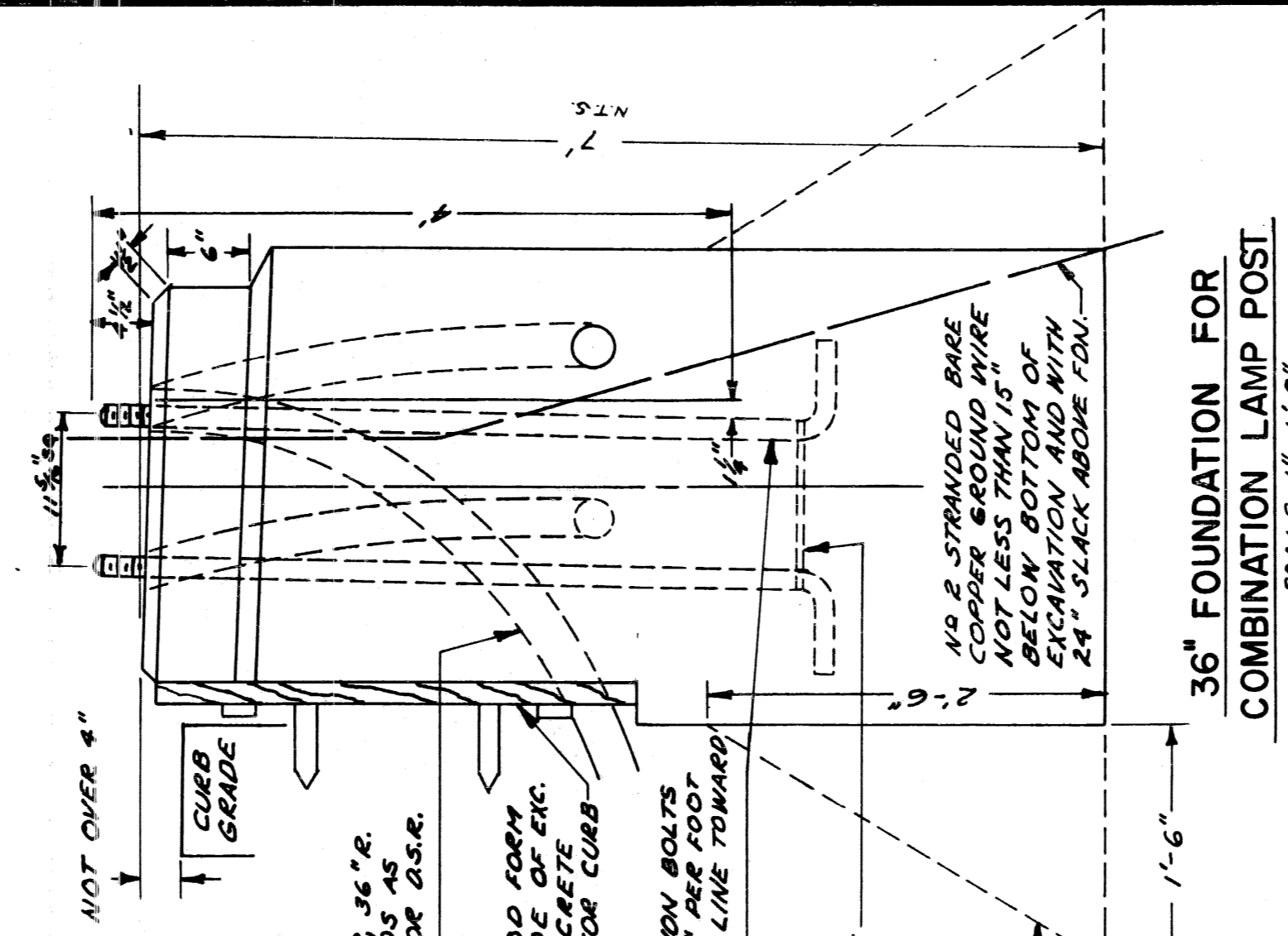
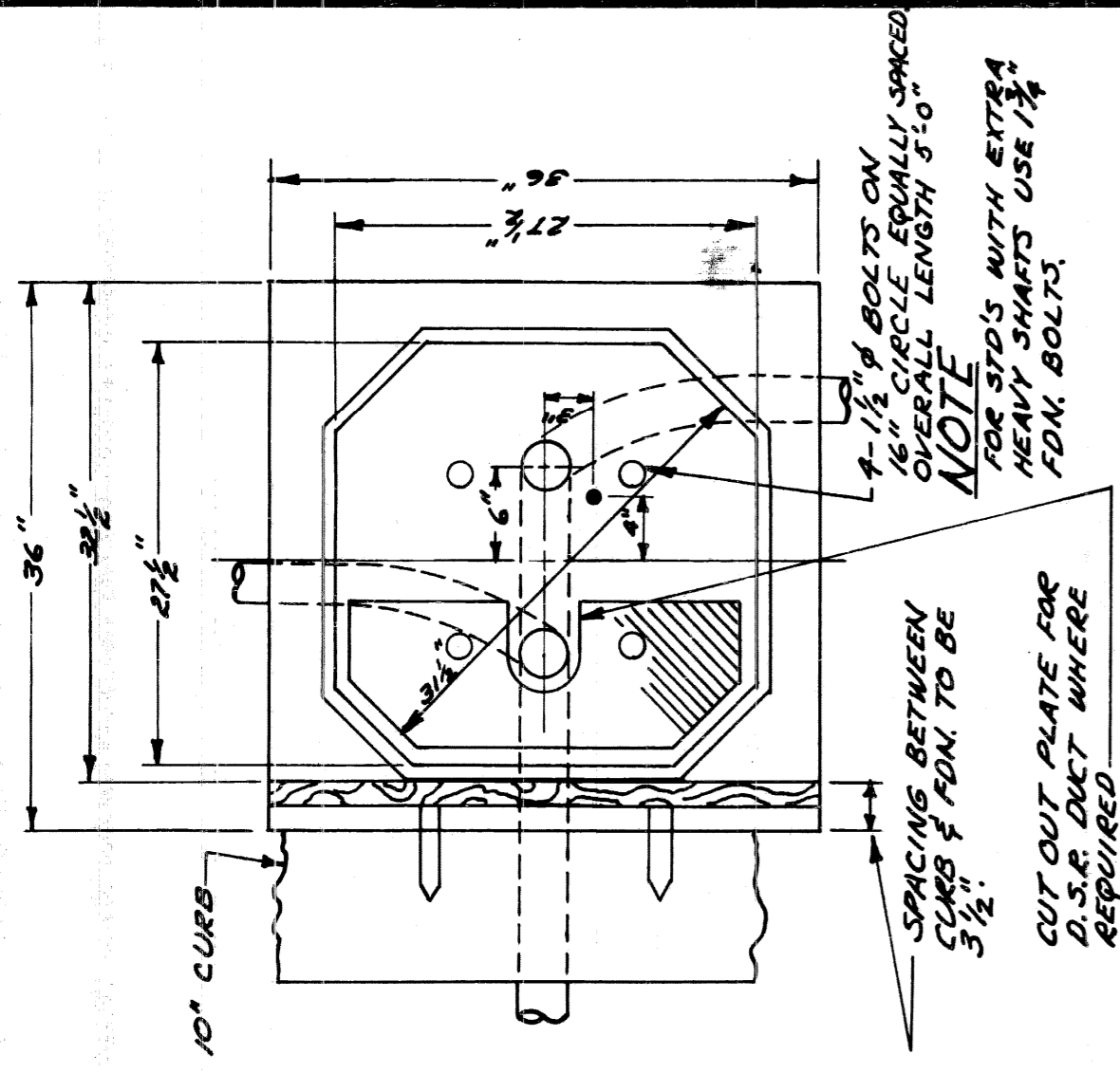
DETAIL I  
 FOUNDATION BOLT TIE PLATE  
 SCALE 1/2" = 1"

DETAIL III  
 FOUNDATION BOLT AND TIE ROD  
 SCALE 1/2" = 1"

DETAIL IV  
 FOUND. BOLT TIE PLATE  
 SCALE 3/4" = 1"

DETAIL II  
 FOUNDATION CAP  
 SCALE 3/4" = 1"





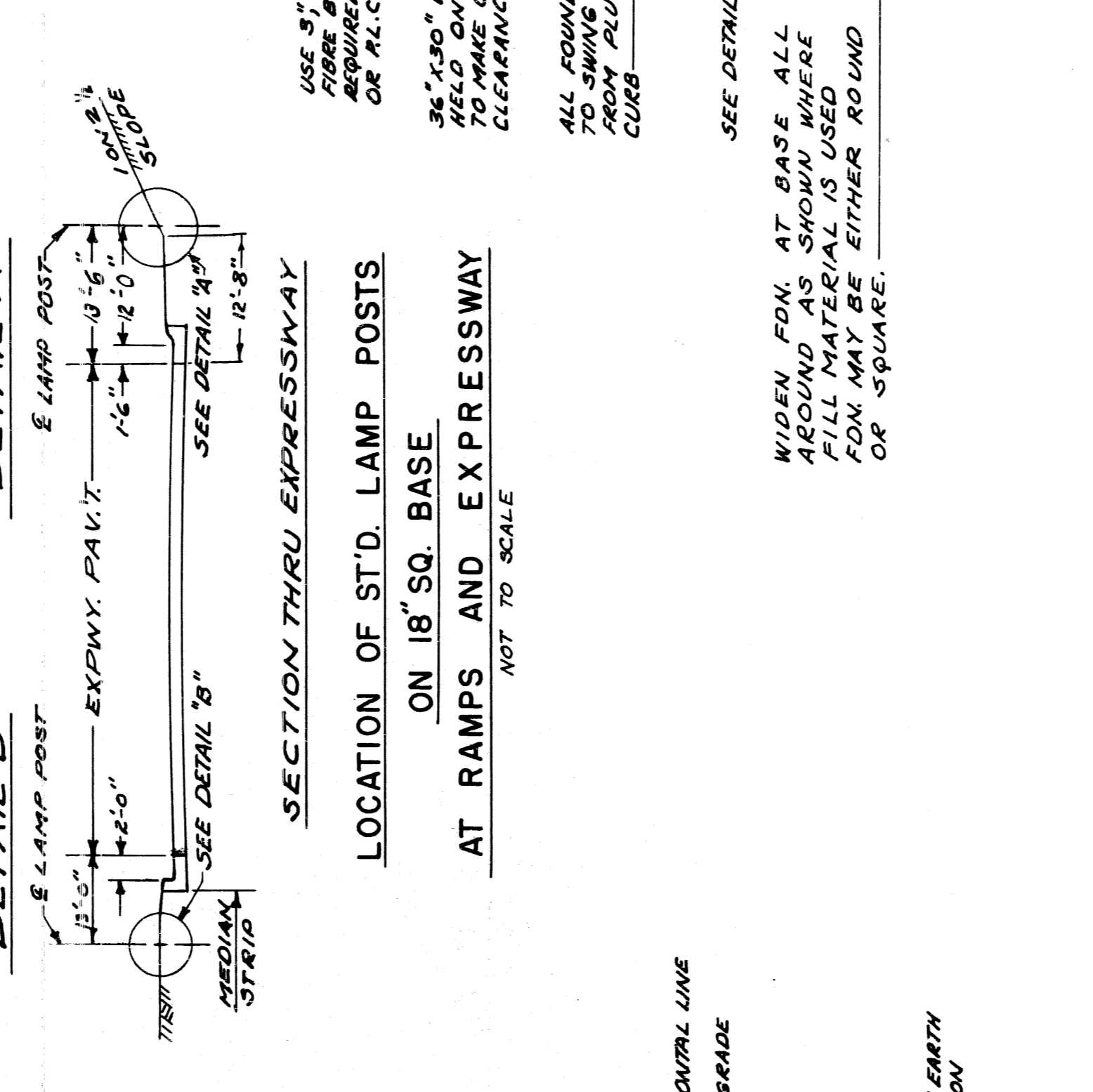
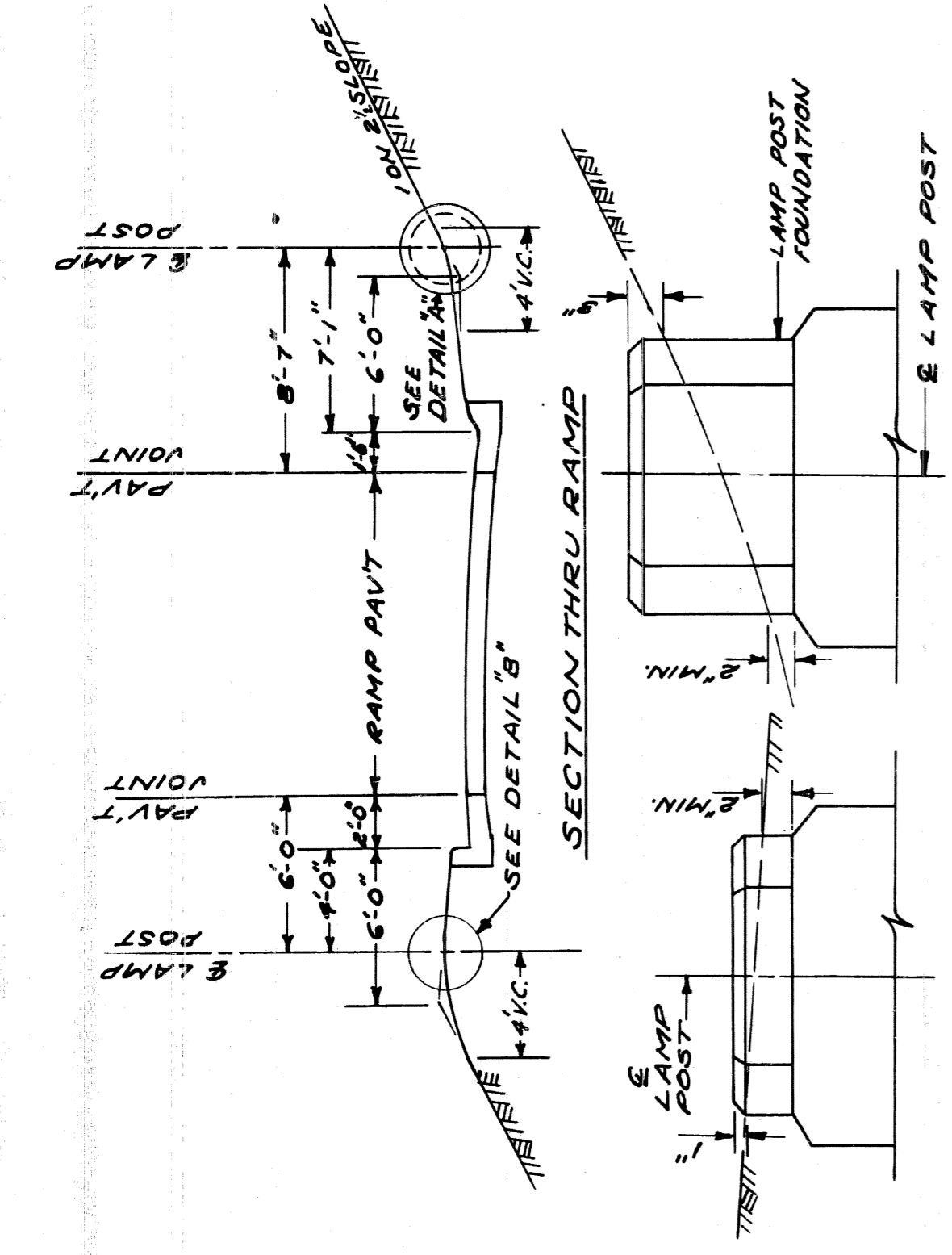
CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P.L.C. DETAILS - POST FOUNDATIONS

MICHIGAN STATE HIGHWAY DEPARTMENT

FILE NO. 55-3F  
DRAWN BY M.G.M.  
CHECKED BY SHEET NO. 3A  
APPROVED BY DATE 1-9-52

APPROVED	CHIEF BRIDGE DRAFTSMAN
APPROVED	ENGINEER OF BRIDGE DESIGN
APPROVED	BRIDGE ENGINEER

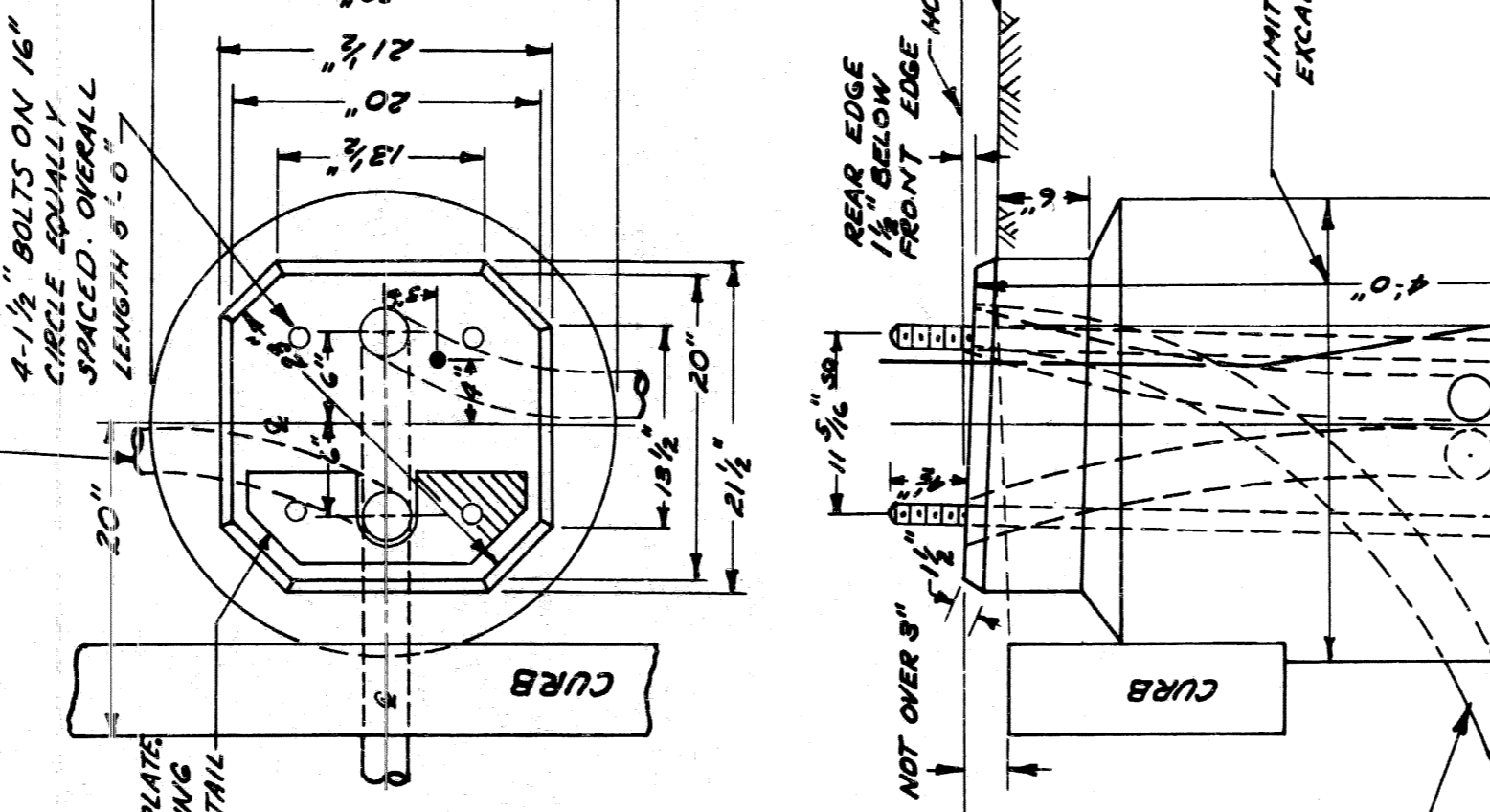
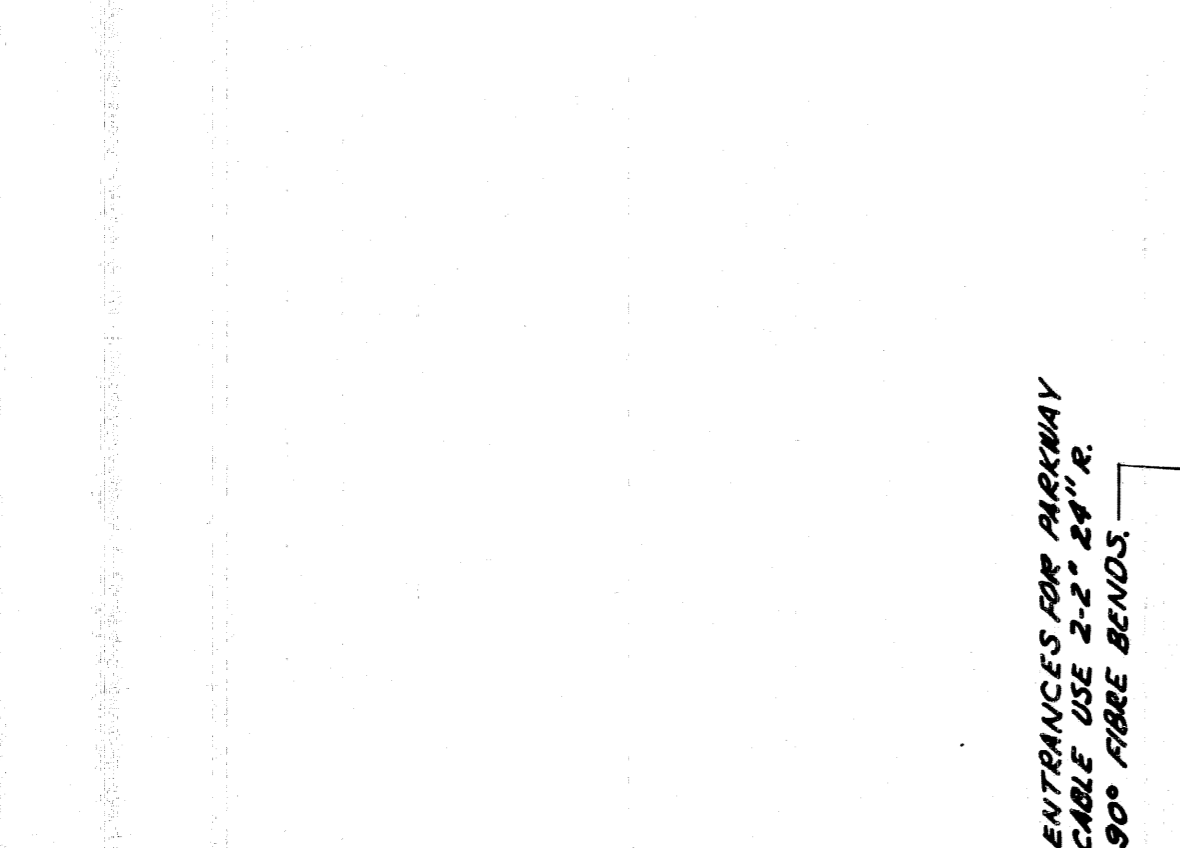
82111-C14  
SHEET 21 OF



36" FOUNDATION LAMP POST  
SCALE 1"=1'-0"

7	CHGD SLOPE CURB DISTANCE	4-29-50	14.3
8	CHD LENGTH OF BOLTS	5-2-55	14.3
9	CORRECTED GRD. ABOVE EXCAVATION	10-20-50	14.3
10	ADD 30" 3/4" DIA. CMB. RINS FOR D.S.R.	10-20-50	14.3
11	CMB. SLOPE	REVISIONS REFER TO 5-1-55	14.3
12	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
13	ADD 30" WIRE TO	5-1-55	14.3
14	LOCATION OF STD. LAMP POST	5-1-55	14.3
15	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

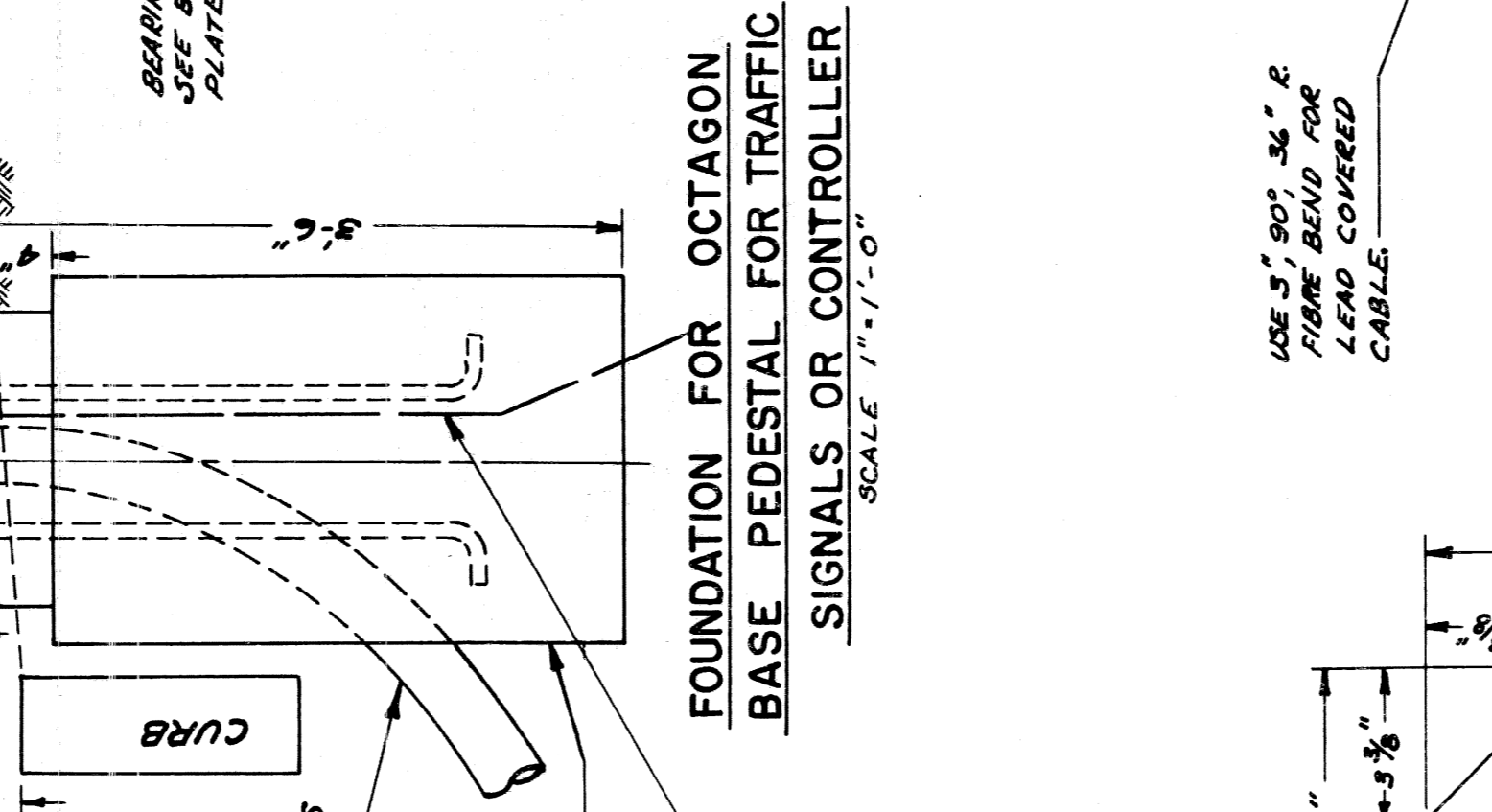
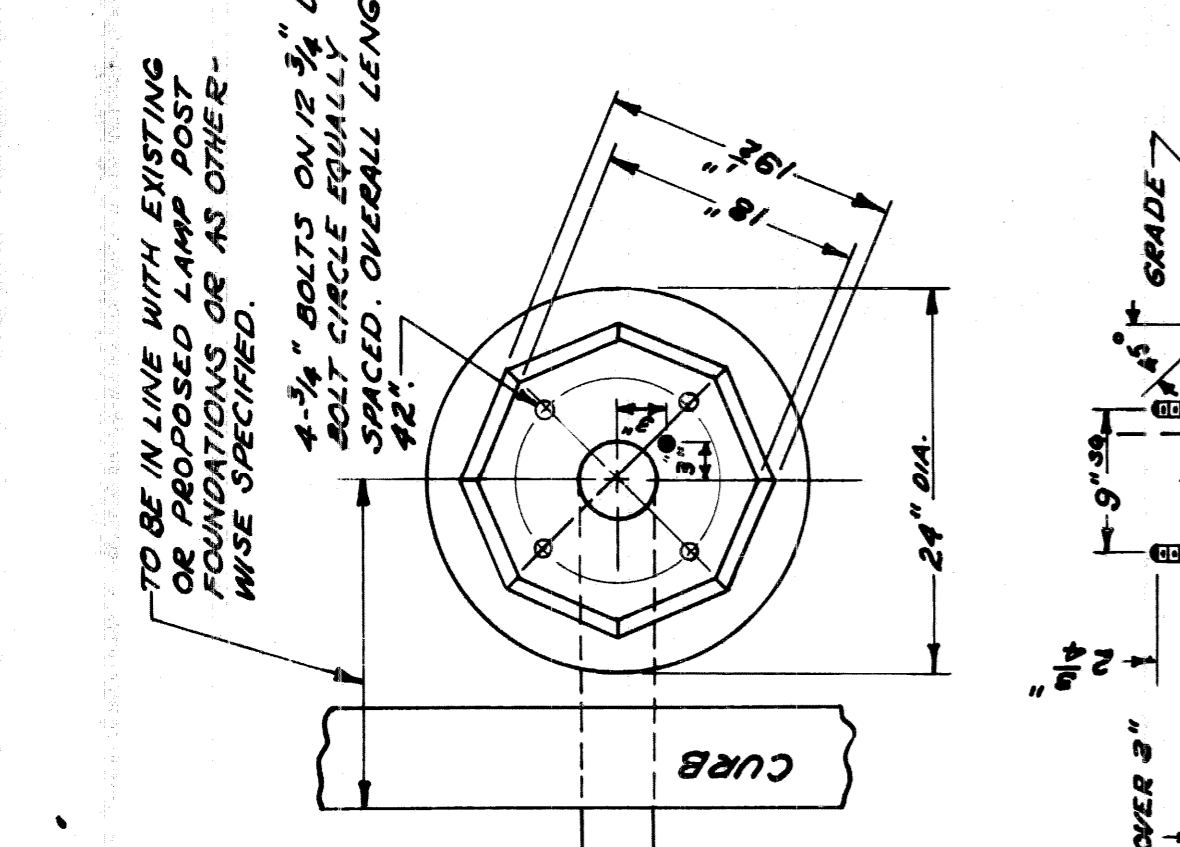
82111-C14  
SHEET 21 OF



30" FOUNDATION FOR D.S.R.  
COMBINATION LAMP POST  
SCALE 1"=1'-0"

1	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
2	ADD 30" WIRE TO	5-1-55	14.3
3	LOCATION OF STD. LAMP POST	5-1-55	14.3
4	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

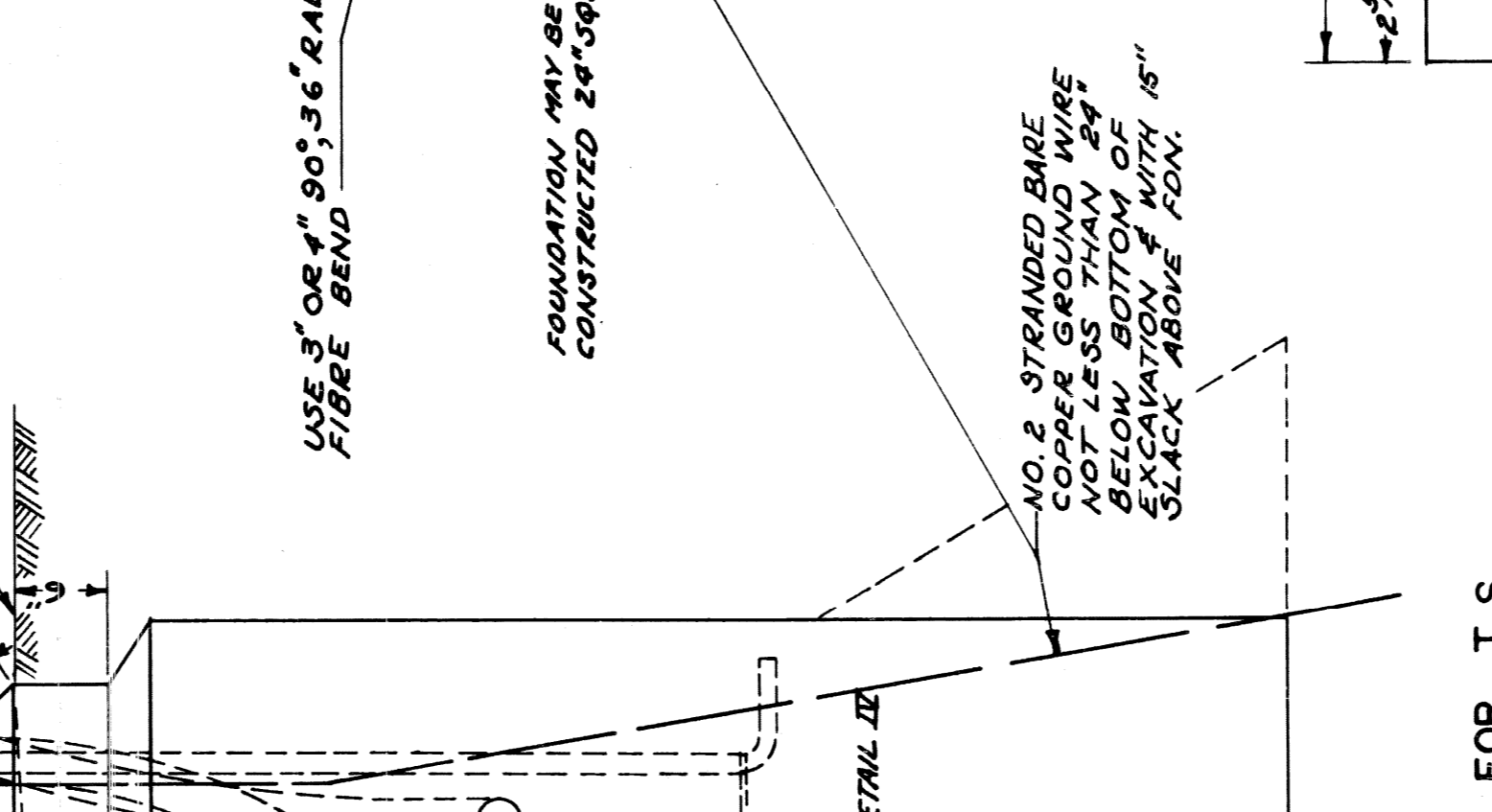
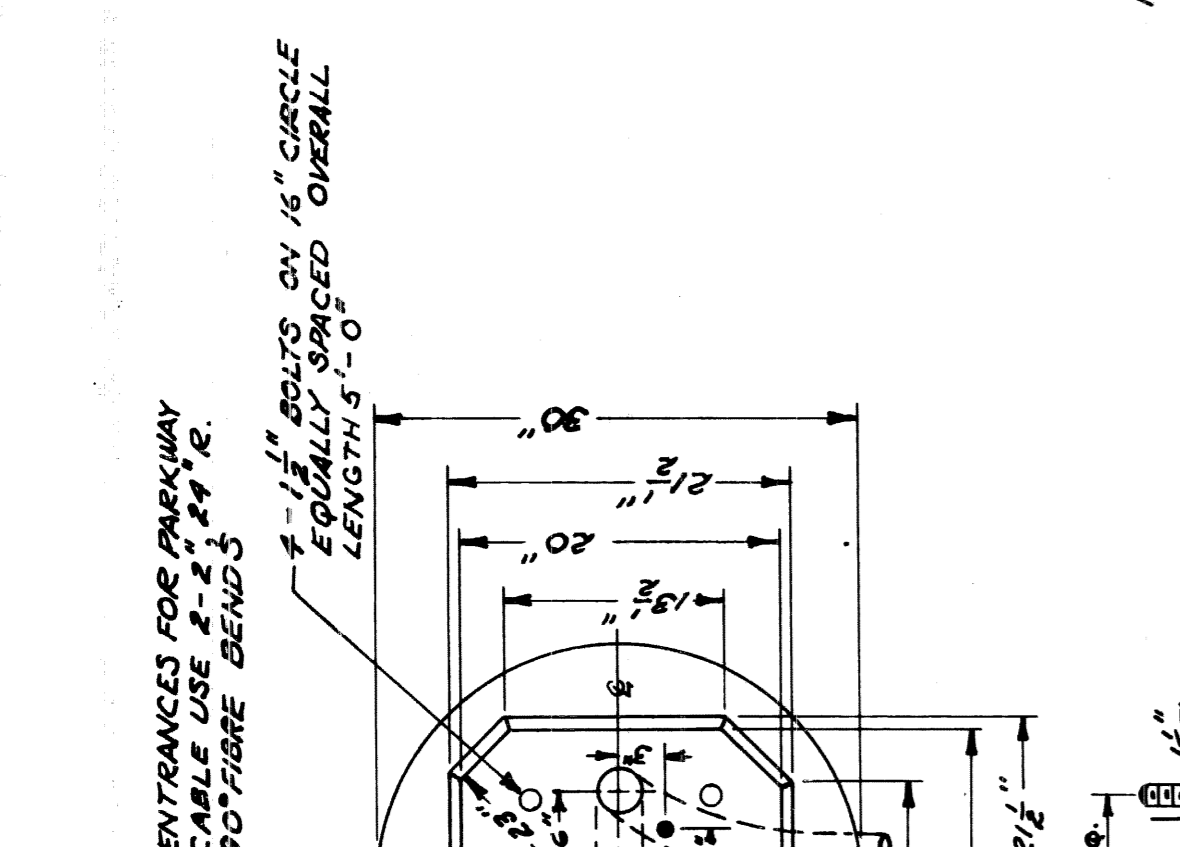
82111-C14  
SHEET 21 OF



30" FOUNDATION FOR T.S.  
COMBINATION LAMP POST  
SCALE 1"=1'-0"

1	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
2	ADD 30" WIRE TO	5-1-55	14.3
3	LOCATION OF STD. LAMP POST	5-1-55	14.3
4	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

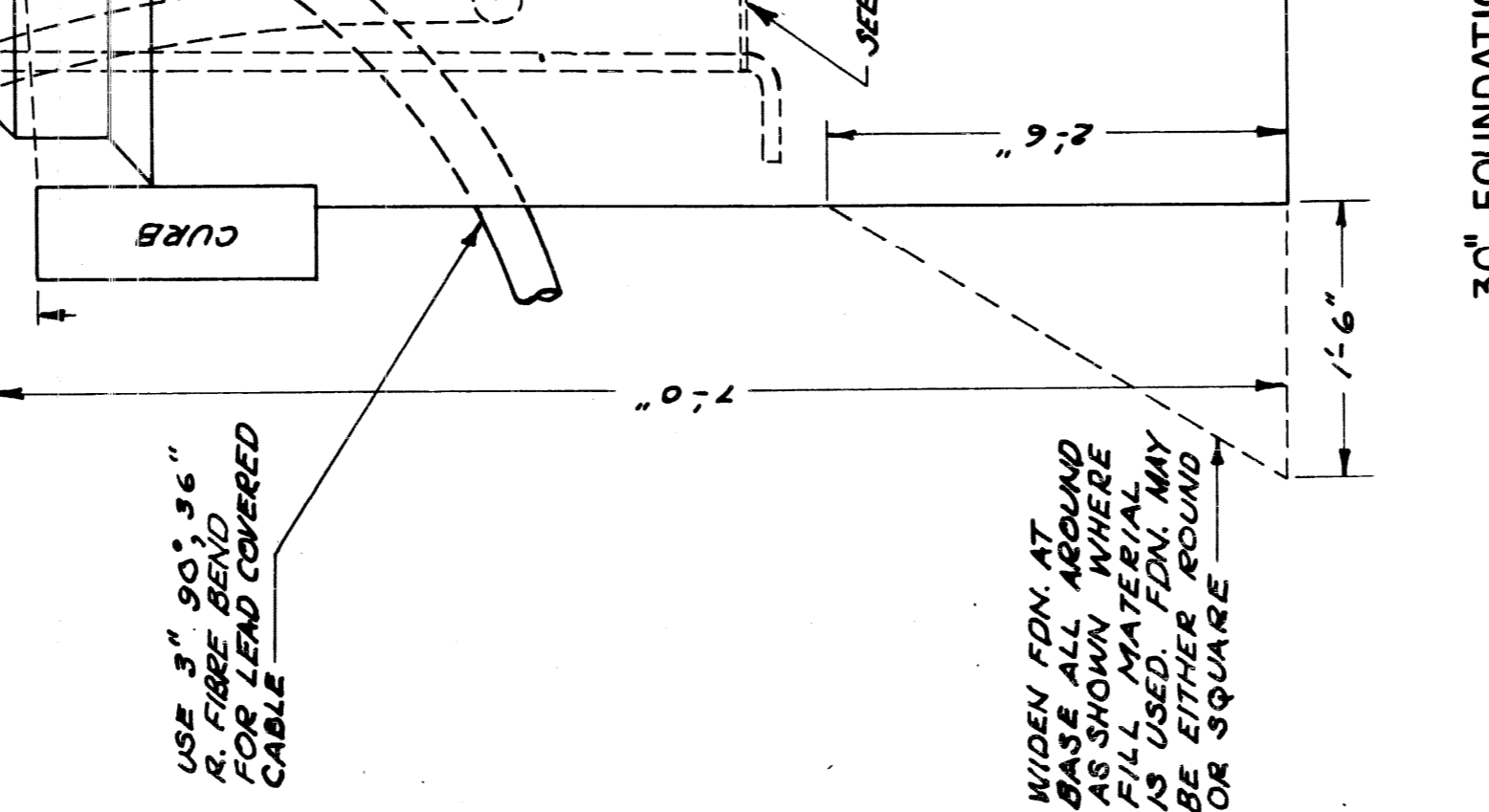
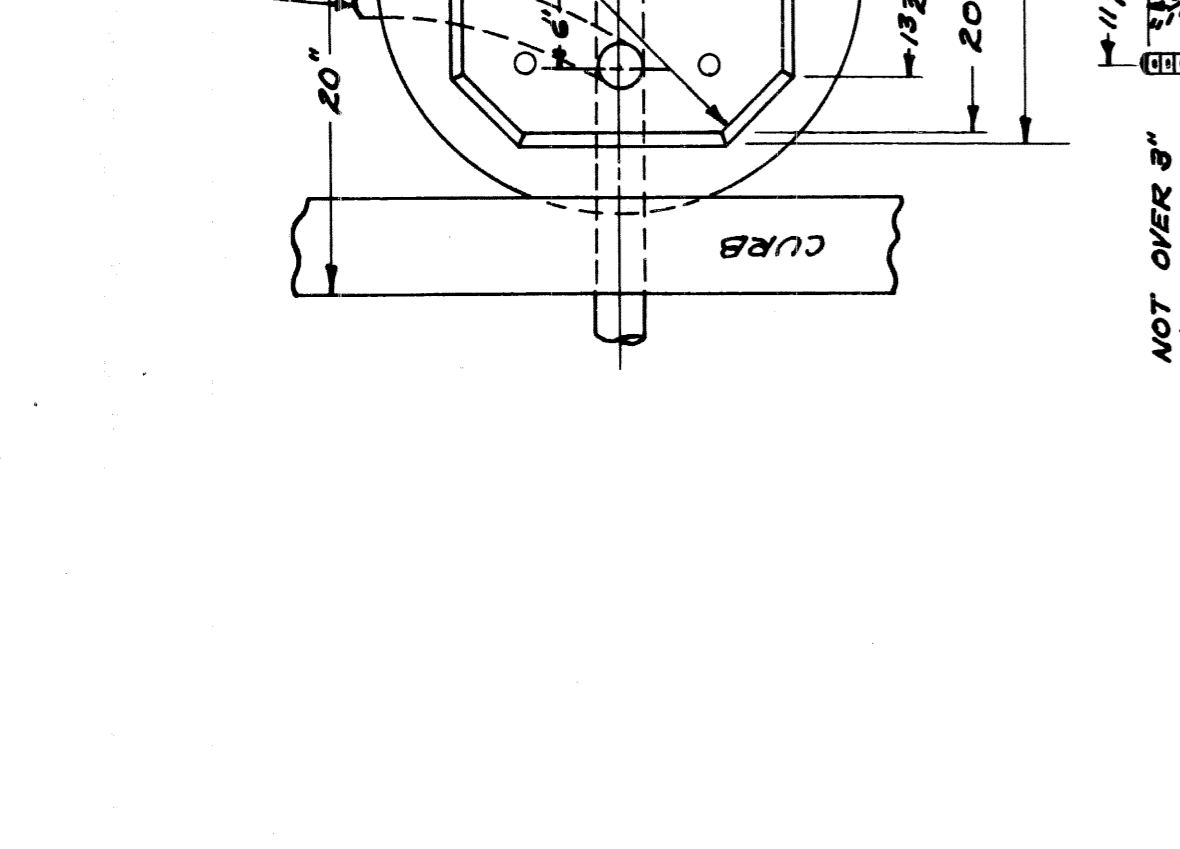
82111-C14  
SHEET 21 OF



30" FOUNDATION FOR D.S.R.  
COMBINATION LAMP POST  
SCALE 1"=1'-0"

1	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
2	ADD 30" WIRE TO	5-1-55	14.3
3	LOCATION OF STD. LAMP POST	5-1-55	14.3
4	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

82111-C14  
SHEET 21 OF



30" FOUNDATION FOR T.S.  
COMBINATION LAMP POST  
SCALE 1"=1'-0"

1	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
2	ADD 30" WIRE TO	5-1-55	14.3
3	LOCATION OF STD. LAMP POST	5-1-55	14.3
4	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

82111-C14  
SHEET 21 OF



30" FOUNDATION FOR T.S.  
COMBINATION LAMP POST  
SCALE 1"=1'-0"

1	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
2	ADD 30" WIRE TO	5-1-55	14.3
3	LOCATION OF STD. LAMP POST	5-1-55	14.3
4	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

82111-C14  
SHEET 21 OF



30" FOUNDATION FOR T.S.  
COMBINATION LAMP POST  
SCALE 1"=1'-0"

1	ADDED OCTAGON BASE F.S. FDN.	5-1-55	14.3
2	ADD 30" WIRE TO	5-1-55	14.3
3	LOCATION OF STD. LAMP POST	5-1-55	14.3
4	NOTE CHANGE ON FDN. PLATE	7-28-55	14.3

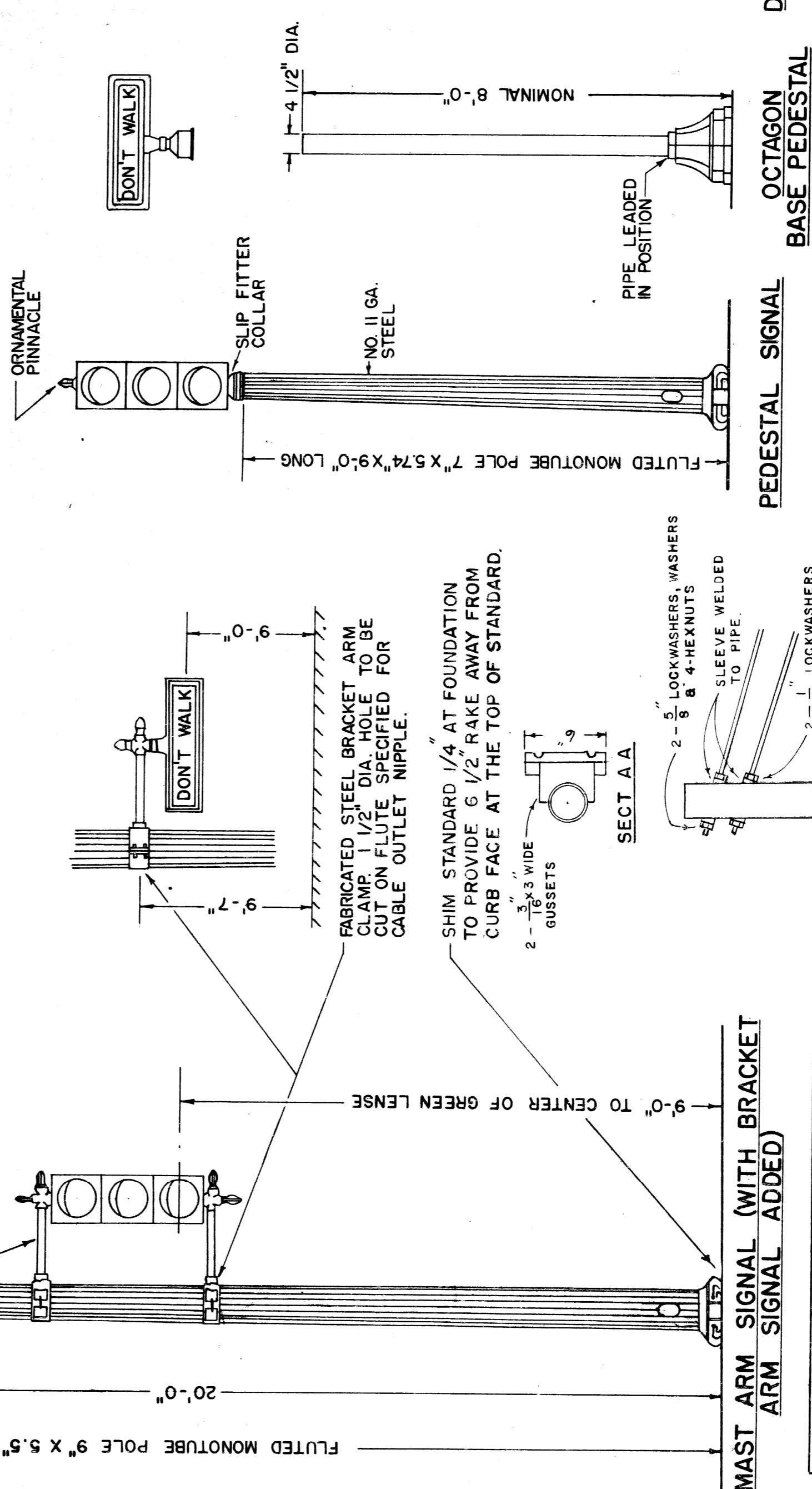
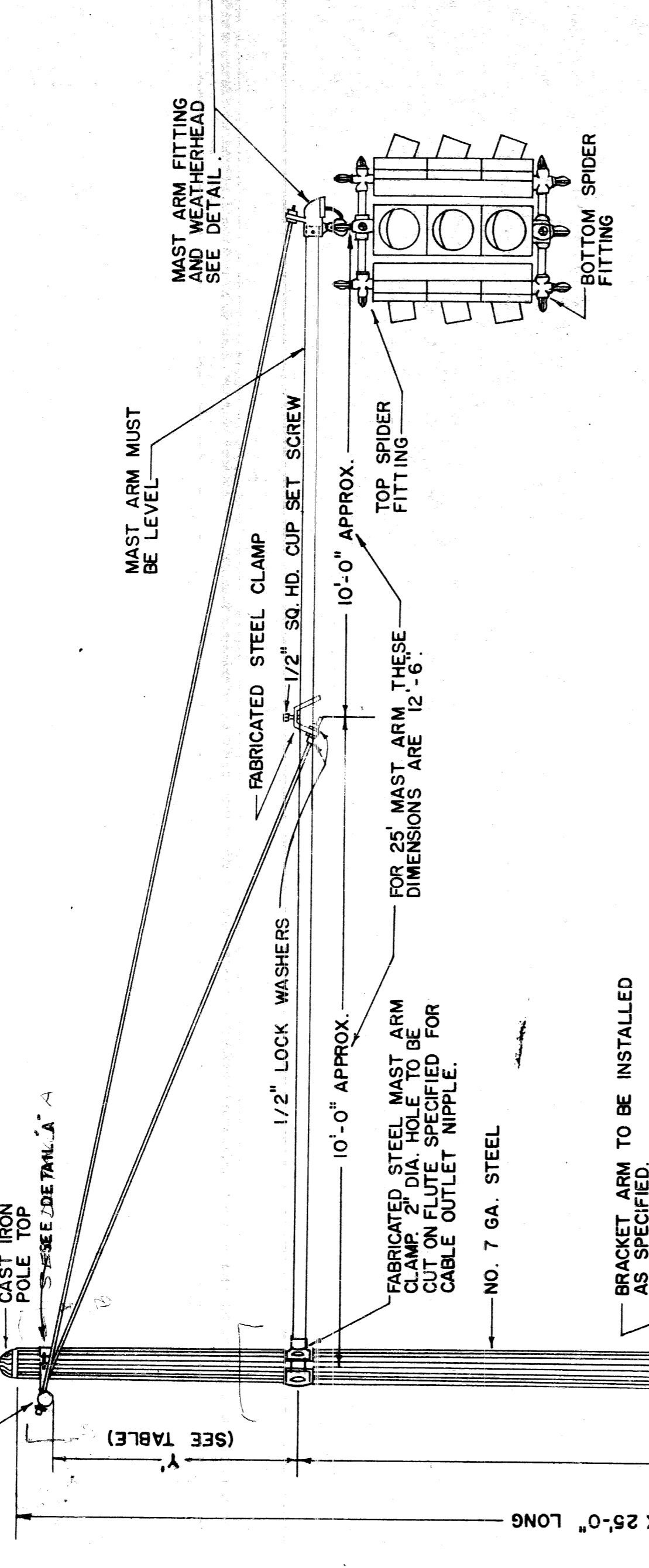
82111-C14  
SHEET 21 OF

DIM.	D	I.D.	WALL
1/8"	6"	4 1/2"	1/8"
1/4"	6"	4 1/2"	1/4"
3/8"	6"	4 1/2"	3/8"
1/2"	6"	4 1/2"	1/2"
3/4"	6"	4 1/2"	3/4"
1"	6"	4 1/2"	1"
1 1/4"	6"	4 1/2"	1 1/4"
1 1/2"	6"	4 1/2"	1 1/2"
1 3/4"	6"	4 1/2"	1 3/4"
2"	6"	4 1/2"	2"
2 1/4"	6"	4 1/2"	2 1/4"
2 1/2"	6"	4 1/2"	2 1/2"
2 3/4"	6"	4 1/2"	2 3/4"
3"	6"	4 1/2"	3"
3 1/4"	6"	4 1/2"	3 1/4"
3 1/2"	6"	4 1/2"	3 1/2"
3 3/4"	6"	4 1/2"	3 3/4"
4"	6"	4 1/2"	4"
4 1/4"	6"	4 1/2"	4 1/4"
4 1/2"	6"	4 1/2"	4 1/2"
4 3/4"	6"	4 1/2"	4 3/4"
5"	6"	4 1/2"	5"
5 1/4"	6"	4 1/2"	5 1/4"
5 1/2"	6"	4 1/2"	5 1/2"
5 3/4"	6"	4 1/2"	5 3/4"
6"	6"	4 1/2"	6"
6 1/4"	6"	4 1/2"	6 1/4"
6 1/2"	6"	4 1/2"	6 1/2"
6 3/4"	6"	4 1/2"	6 3/4"
7"	6"	4 1/2"	7"
7 1/4"	6"	4 1/2"	7 1/4"
7 1/2"	6"	4 1/2"	7 1/2"
7 3/4"	6"	4 1/2"	7 3/4"
8"	6"	4 1/2"	8"
8 1/4"	6"	4 1/2"	8 1/4"
8 1/2"	6"	4 1/2"	8 1/2"
8 3/4"	6"	4 1/2"	8 3/4"
9"	6"	4 1/2"	9"
9 1/4"	6"	4 1/2"	9 1/4"
9 1/2"	6"	4 1/2"	9 1/2"
9 3/4"	6"	4 1/2"	9 3/4"
10"	6"	4 1/2"	10"
10 1/4"	6"	4 1/2"	10 1/4"
10 1/2"	6"	4 1/2"	10 1/2"
10 3/4"	6"	4 1/2"	10 3/4"
11"	6"	4 1/2"	11"
11 1/4"	6"	4 1/2"	11 1/4"
11 1/2"	6"	4 1/2"	11 1/2"
11 3/4"	6"	4 1/2"	11 3/4"
12"	6"	4 1/2"	12"
12 1/4"	6"	4 1/2"	12 1/4"
12 1/2"	6"	4 1/2"	12 1/2"
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13"	6"	4 1/2"	13"
13 1/4"	6"	4 1/2"	13 1/4"
13 1/2"	6"	4 1/2"	13 1/2"
13 3/4"	6"	4 1/2"	13 3/4"
14"	6"	4 1/2"	14"
14 1/4"	6"	4 1/2"	14 1/4"
14 1/2"	6"	4 1/2"	14 1/2"
14 3/4"	6"	4 1/2"	14 3/4"
15"	6"	4 1/2"	15"
15 1/4"	6"	4 1/2"	15 1/4"
15 1/2"	6"	4 1/2"	15 1/2"
15 3/4"	6"	4 1/2"	15 3/4"
16"	6"	4 1/2"	16"
16 1/4"	6"	4 1/2"	16 1/4"
16 1/2"	6"	4 1/2"	16 1/2"
16 3/4"	6"	4 1/2"	16 3/4"
17"	6"	4 1/2"	17"
17 1/4"	6"	4 1/2"	17 1/4"
17 1/2"	6"	4 1/2"	17 1/2"
17 3/4"	6"	4 1/2"	17 3/4"
18"	6"	4 1/2"	18"
18 1/4"	6"	4 1/2"	18 1/4"
18 1/2"	6"	4 1/2"	18 1/2"
18 3/4"	6"	4 1/2"	18 3/4"
19"	6"	4 1/2"	19"
19 1/4"	6"	4 1/2"	19 1/4"
19 1/2"	6"	4 1/2"	19 1/2"
19 3/4"	6"	4 1/2"	19 3/4"
20"	6"	4 1/2"	20"

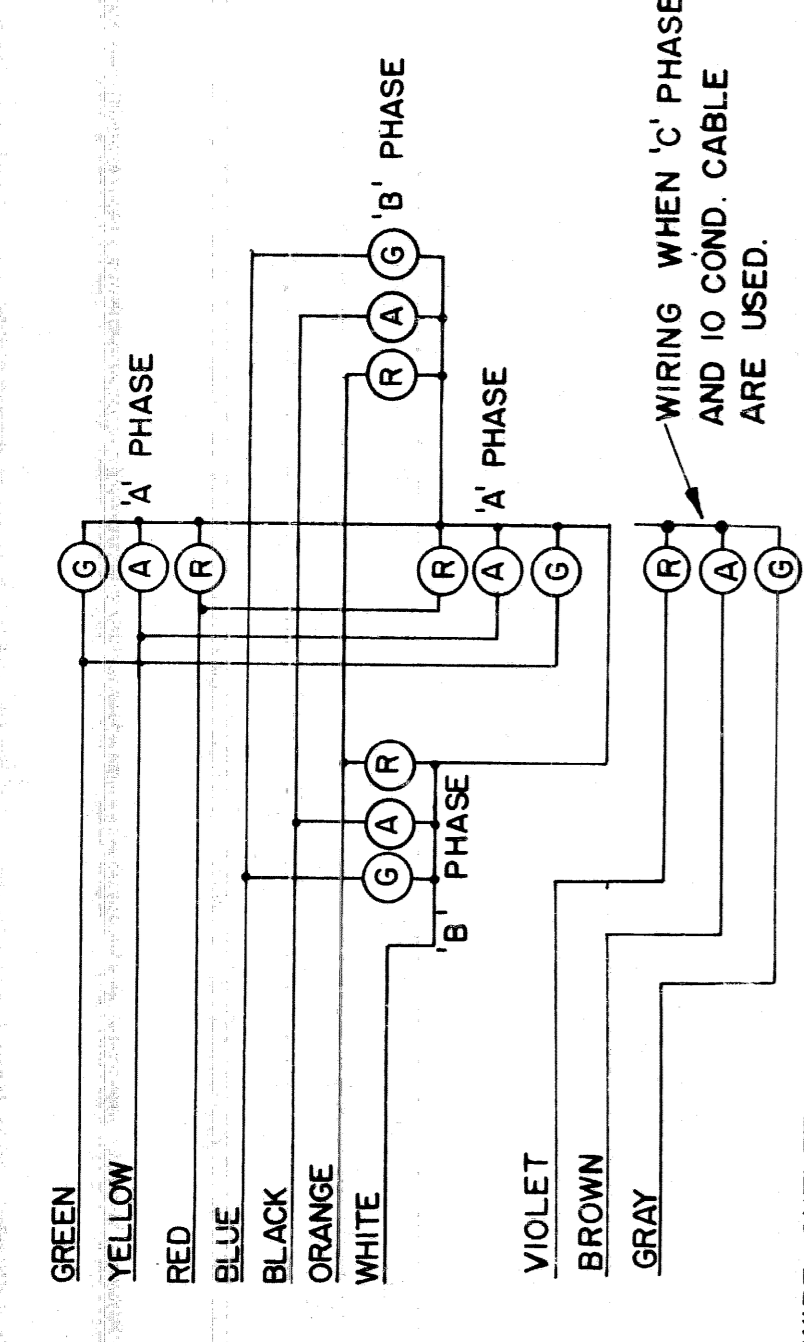
NOTE  
SPLICING IN TRAFFIC SIGNAL CABLE TO BE MADE ONLY IF SPECIFIED.

- (A) STA-KON OR SIMILAR APPROVED CONNECTOR
- (B) INDIVIDUAL CONNECTORS TO BE TAPED WITH 3 LAYERS OF APPROVED PLASTIC TAPE AND OVERLAP ONE LAYER OF HALF LAP APPROVED TO BE STAGGERED AROUND PERIPHERY OF JOINT.
- (C) FLOW SUFFICIENT SOLDER BETWEEN END OF SLEEVE AND CABLE TO MAKE SEAL, AND COOL WITH WATER. CAUTION - USE MINIMUM HEAT POSSIBLE. ON WHEN CONDUCTOR INSULATION IS PLASTIC.

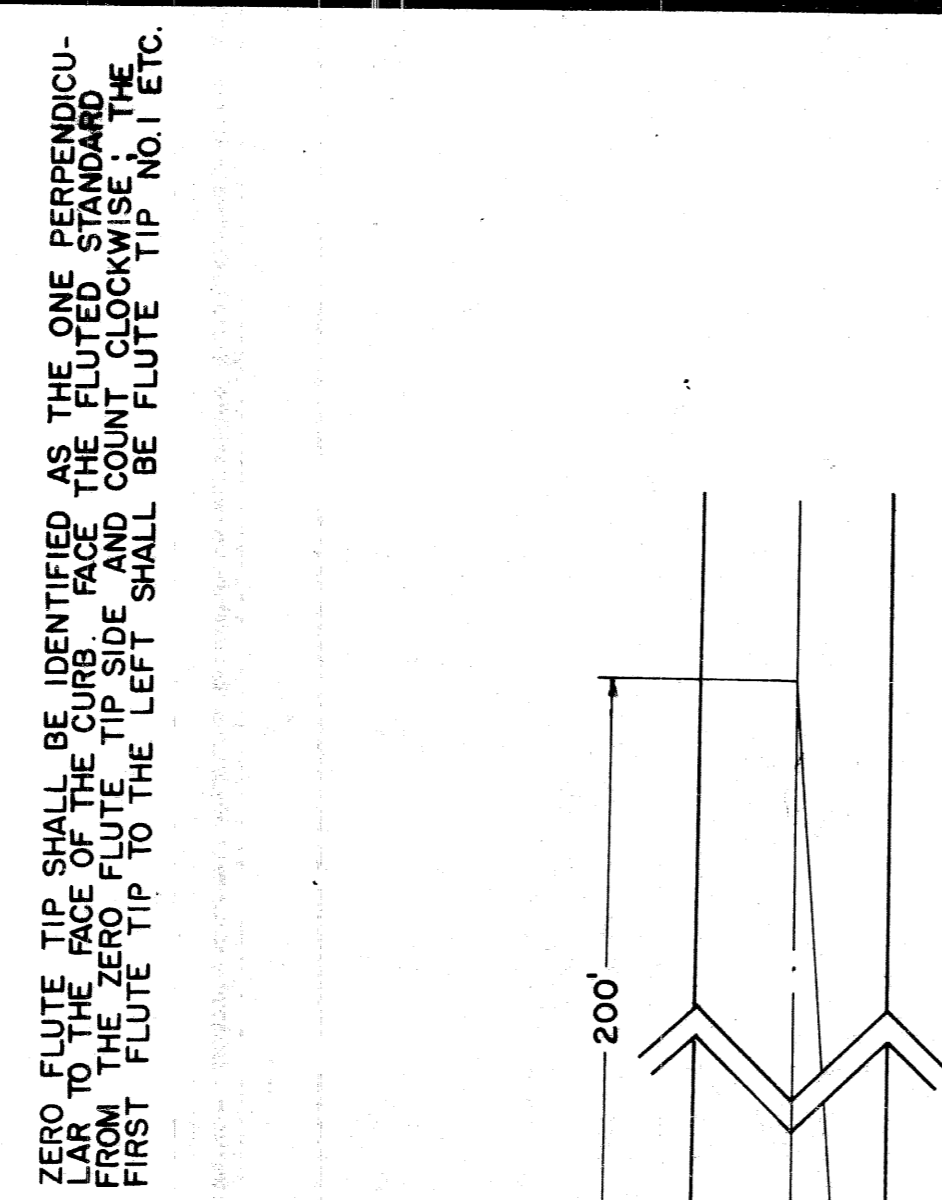
**I.S. CABLE SPLICE**



POLE NUMBER	NUMBER OF FLUTES	DIMENSION
50033-Y41	16	4'-6"
5838-Y2	16	6'-4"
5838-Y2	20	6'-4"



COLOR CODE FOR WIRING AND CONNECTING SIGNAL LAMPS.



ZERO FLUTE TIP SHALL BE IDENTIFIED AS THE ONE PERPENDICULAR TO THE FACE OF THE CURB FROM THE REVERSE SIDE OF THE FLUTE. THE FIRST FLUTE TIP TO THE LEFT SHALL BE FLUTE TIP NO. 1 ETC.

"W" FACES TO BE DIRECTED TO INTERSECT A POINT ON THE CENTERLINE OF THE STREET THEY CONTROL 200' FROM THE STOP LINE.

"X" FACES TO BE DIRECTED PARALLEL TO THE CENTERLINE OF THE STREET THEY CONTROL.

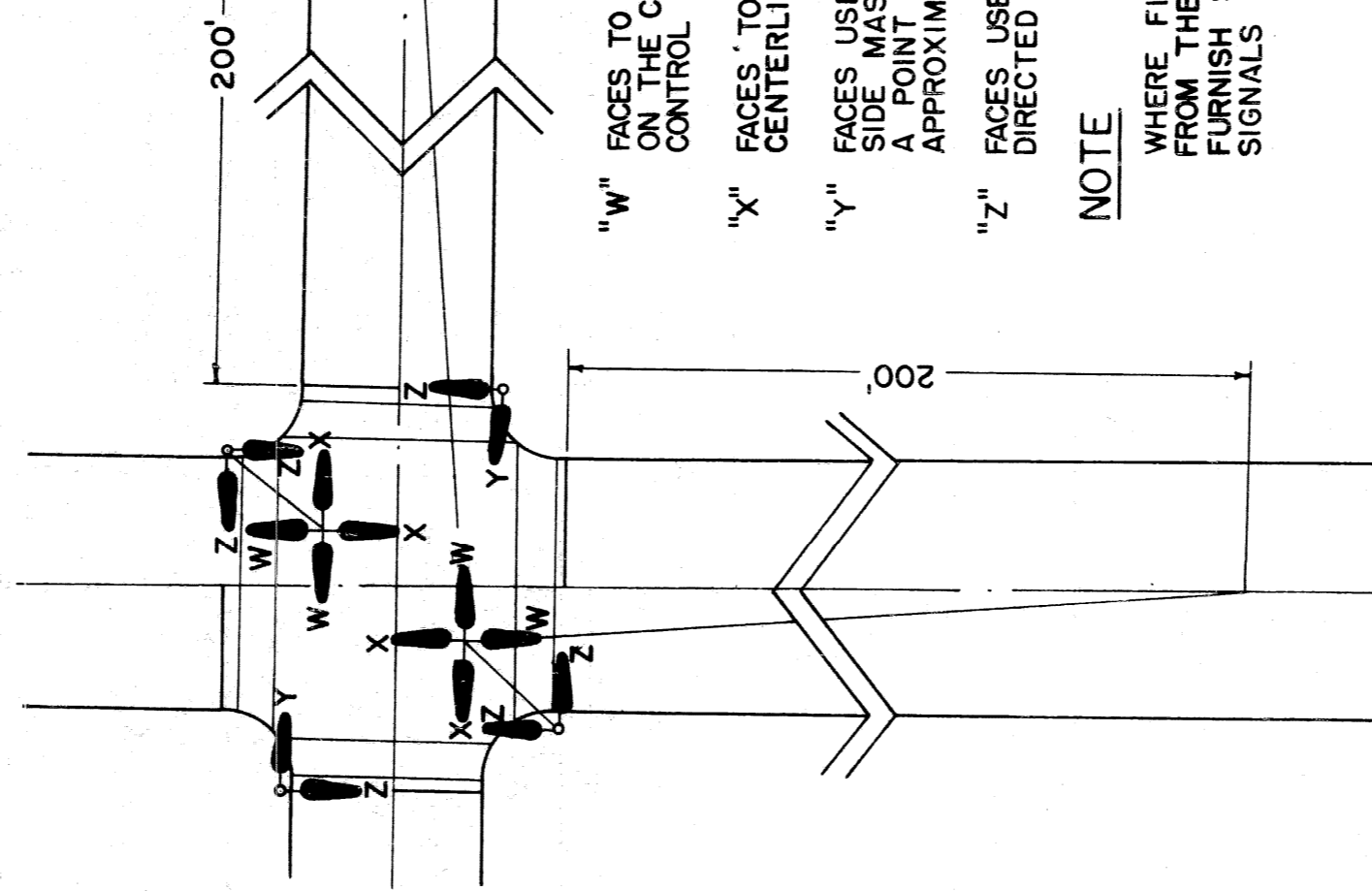
"Y" FACES USED AS STARTING SIGNALS WITH NEAR SIDE MAST-ARMS; TO BE DIRECTED TO INTERSECT A POINT ON THE OPPOSITE STOP LINE APPROXIMATELY 4' FROM THE CURB.

"Z" FACES USED AS PEDESTRIAN SIGNALS TO BE DIRECTED ALONG CROSSWALKS.

**NOTE**

WHERE FIELD CONDITIONS REQUIRE DEVIATION FROM THESE STANDARDS, THE P. L. C. WILL FURNISH SPECIFIC DIRECTIONAL SETTINGS FOR SIGNALS AT TIME OF INSTALLATION.

**STANDARDS FOR DIRECTIONAL SETTINGS OF TRAFFIC SIGNALS**



**CITY OF DETROIT PUBLIC LIGHTING COMMISSION**

PLC DETAILS - TRAFFIC SIGNALS

MICHIGAN STATE HIGHWAY DEPARTMENT

FILE NO. 55-3-D

DRAWN BY DJN

CHECKED BY [Signature]

APPROVED BY [Signature]

SHEET NO. 4

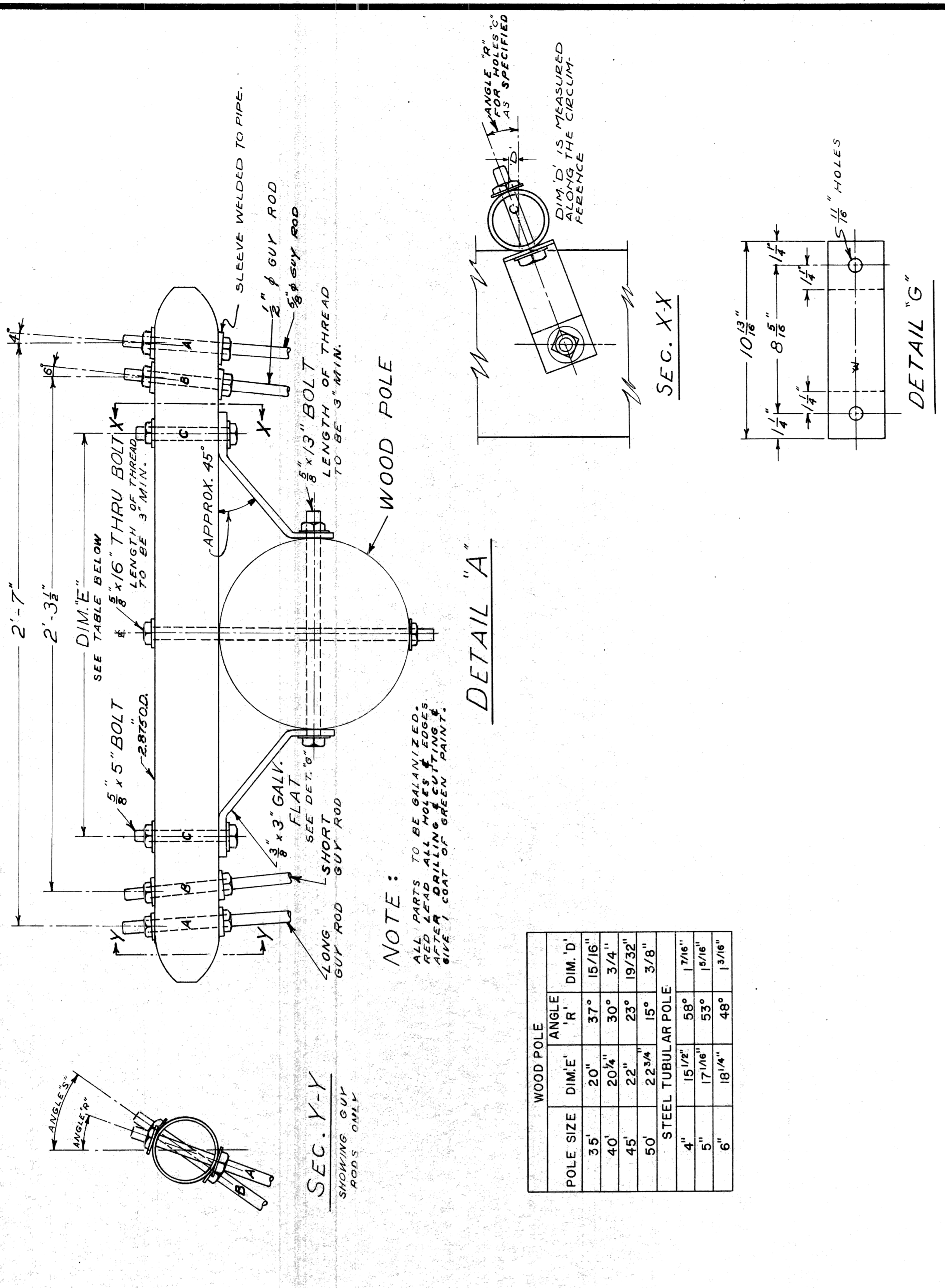
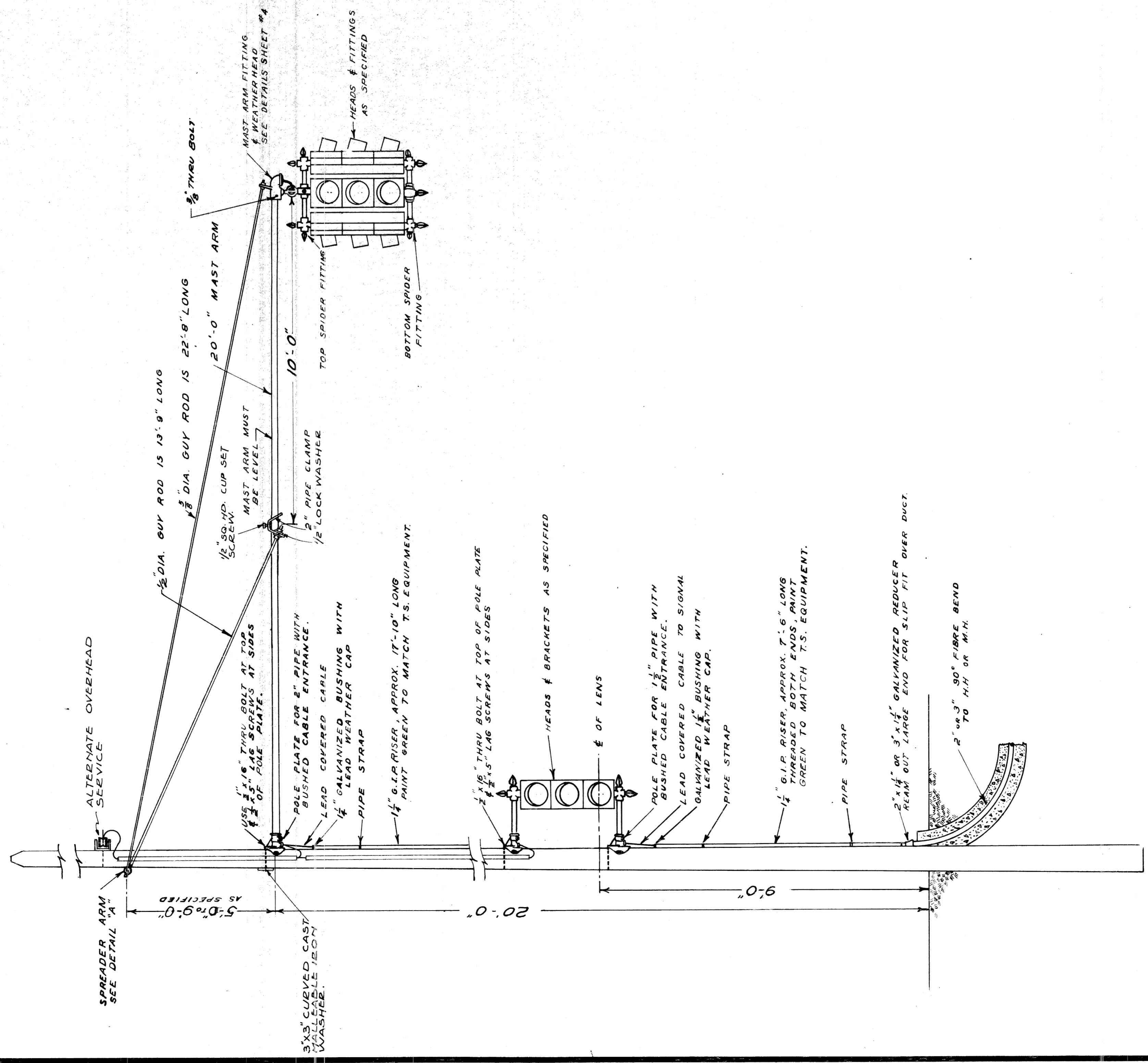
APPROVED: CHIEF BRIDGE DRAFTSMAN

APPROVED: ENGINEER OF BRIDGE DESIGN

APPROVED: BRIDGE ENGINEER

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ADDED CABLE SPLICE TABLE	2-2-57	M.L.C.
2	ADDED 2 PHASE TO P.L. CONNECTION DIAG.	2-17-58	L.M.H.
3	CHANGED MTR. APPROVAL FOR SINGLE CABINET CONTROLLER	2-17-58	L.M.H.
4	ADDED DETAIL A	10-8-59	M.D.C.



NOTE:  
ALL PARTS TO BE GALVANIZED.  
AFTER DRILLING & CUTTING &  
GIVE 1 COAT OF GREEN PAINT.

POLE SIZE	DIM. 'E'	ANGLE	R'	DIM. 'D'
35'	20"	37°	15/16"	
40'	20 1/2"	30°	3/4"	
45'	22"	23°	19/32"	
50'	22 3/4"	15°	3/8"	
STEEL TUBULAR POLE				
4"	15 1/2"	58°	17/16"	
5"	17 1/16"	53°	15/16"	
6"	18 1/4"	48°	1 3/16"	

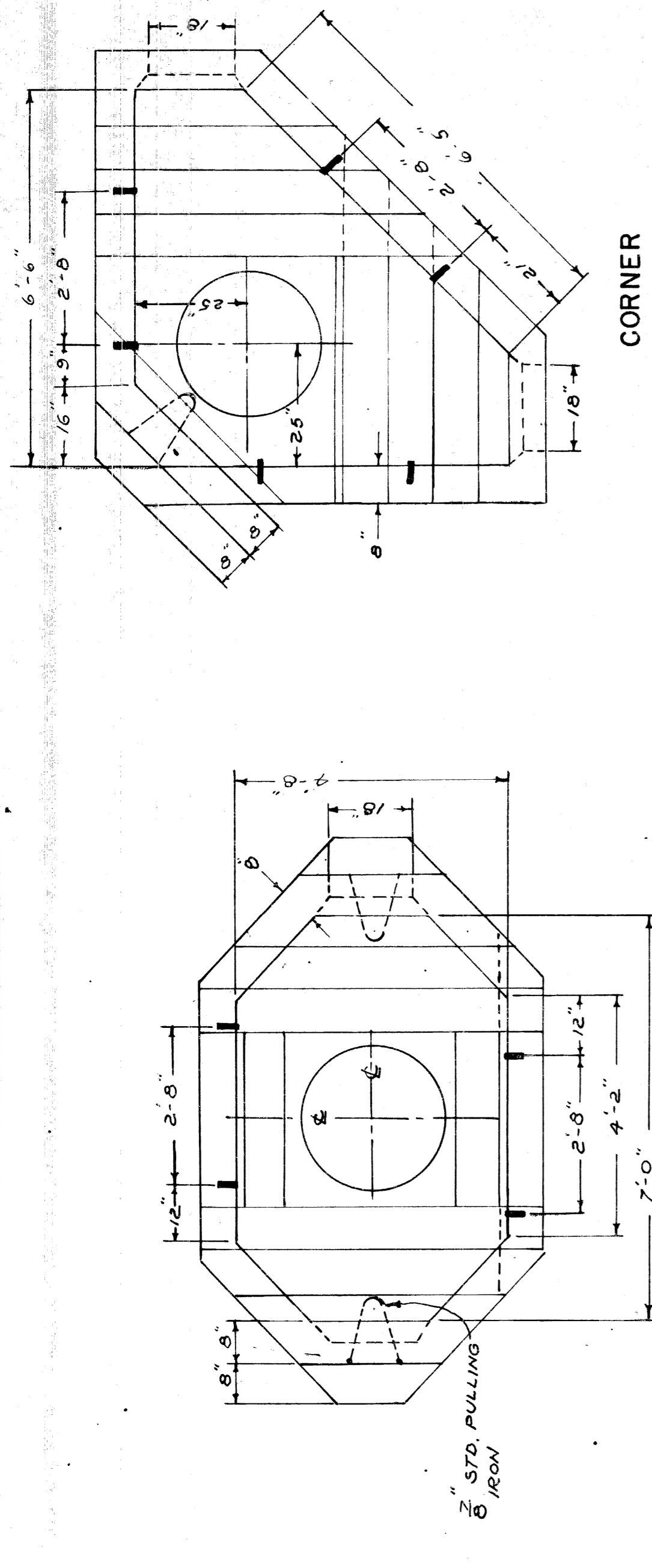
CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P.L.C. DETAILS  
TRAFFIC SIGNALS

MICHIGAN STATE HIGHWAY DEPARTMENT

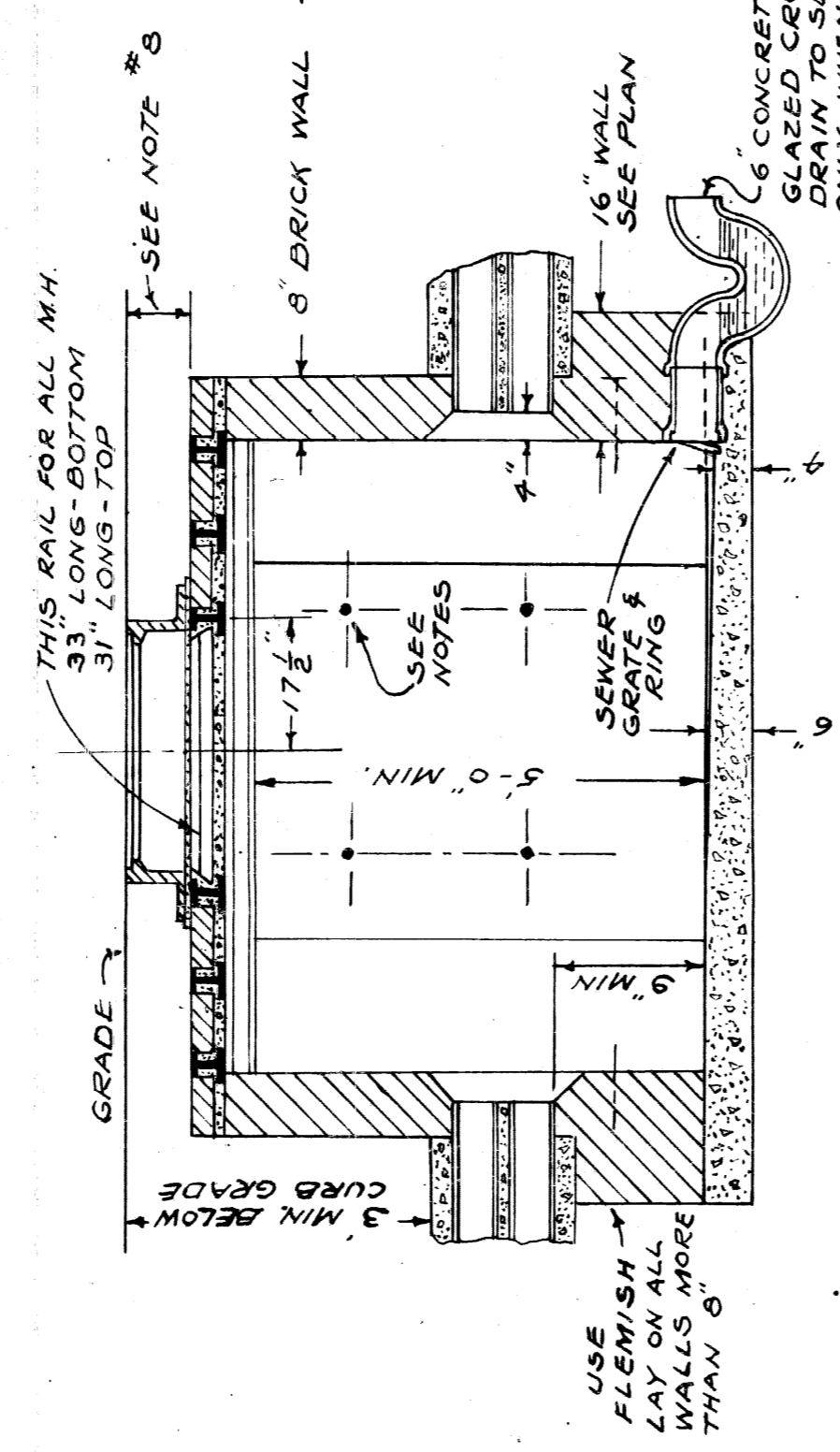
NO.	DESCRIPTION	DATE	BY
7	CHANGED DETAIL OF SPREADER ARM	3/12/51	M.C.

REVISIONS

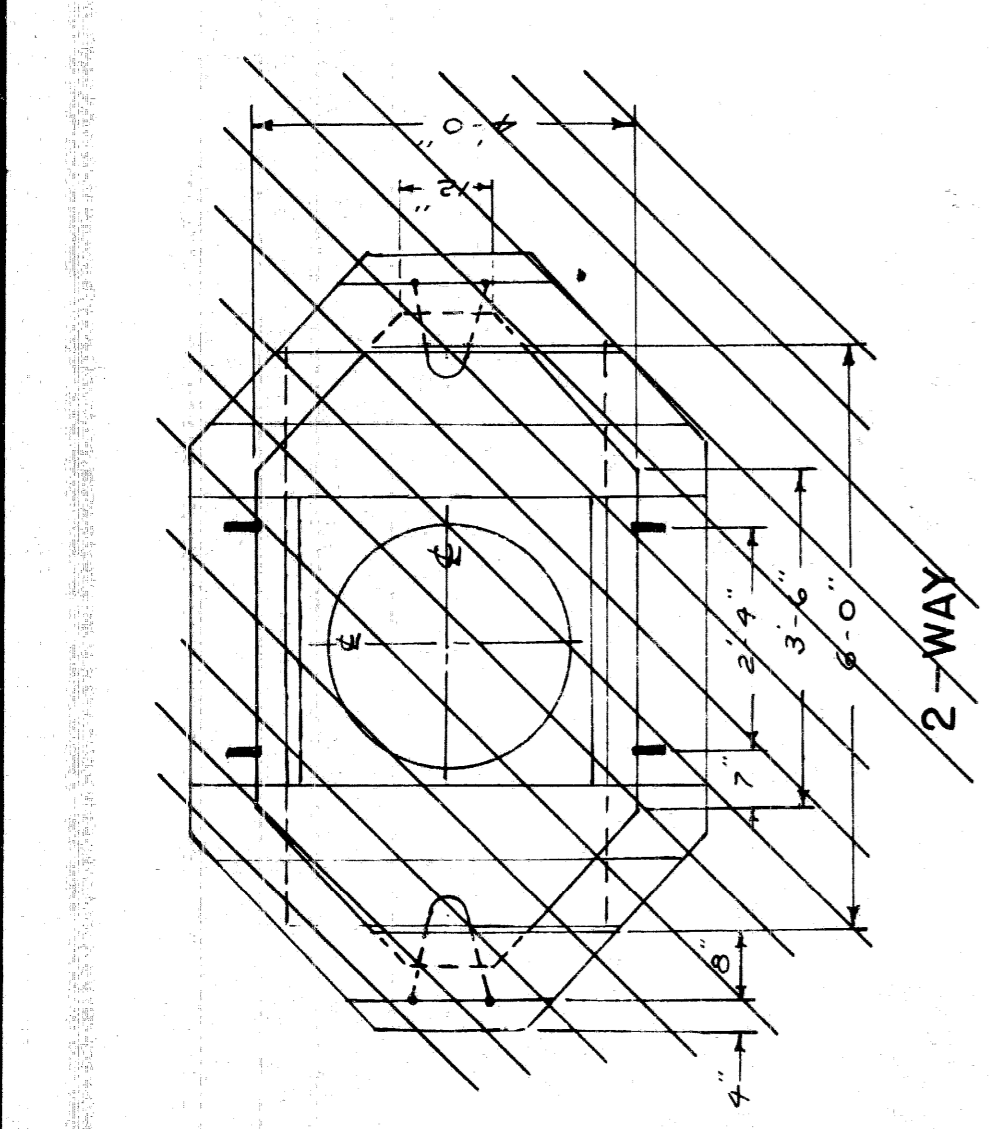
82111-C14



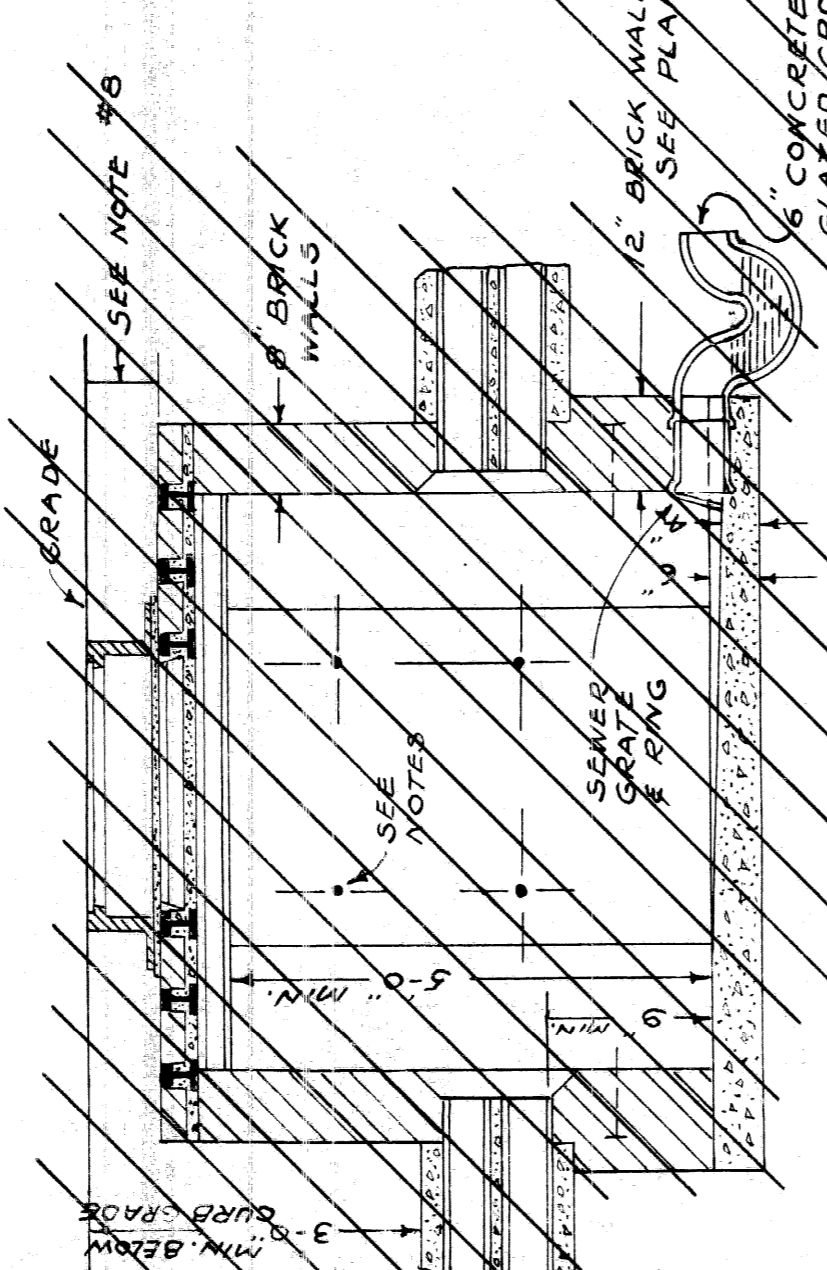
2-WAY



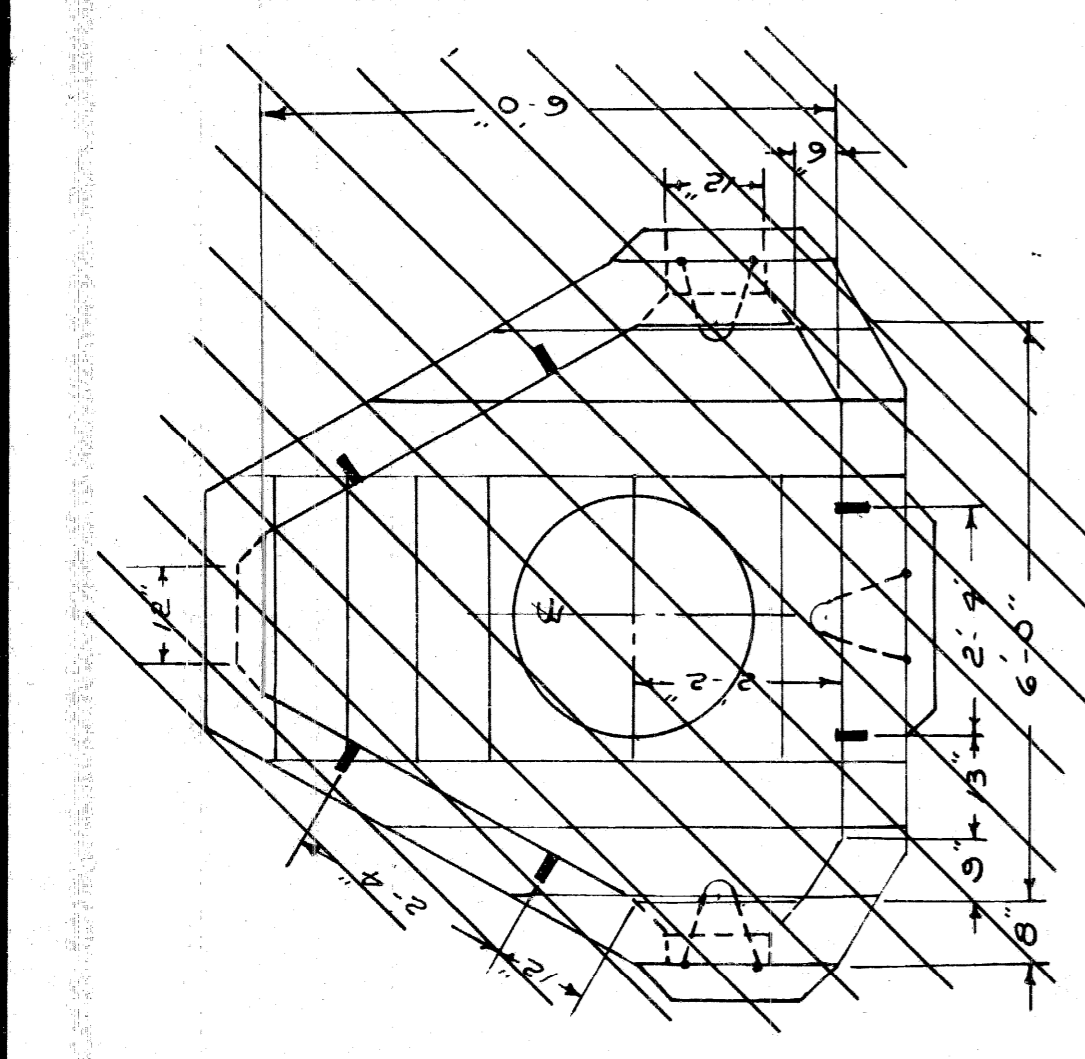
ELEVATION 2-WAY



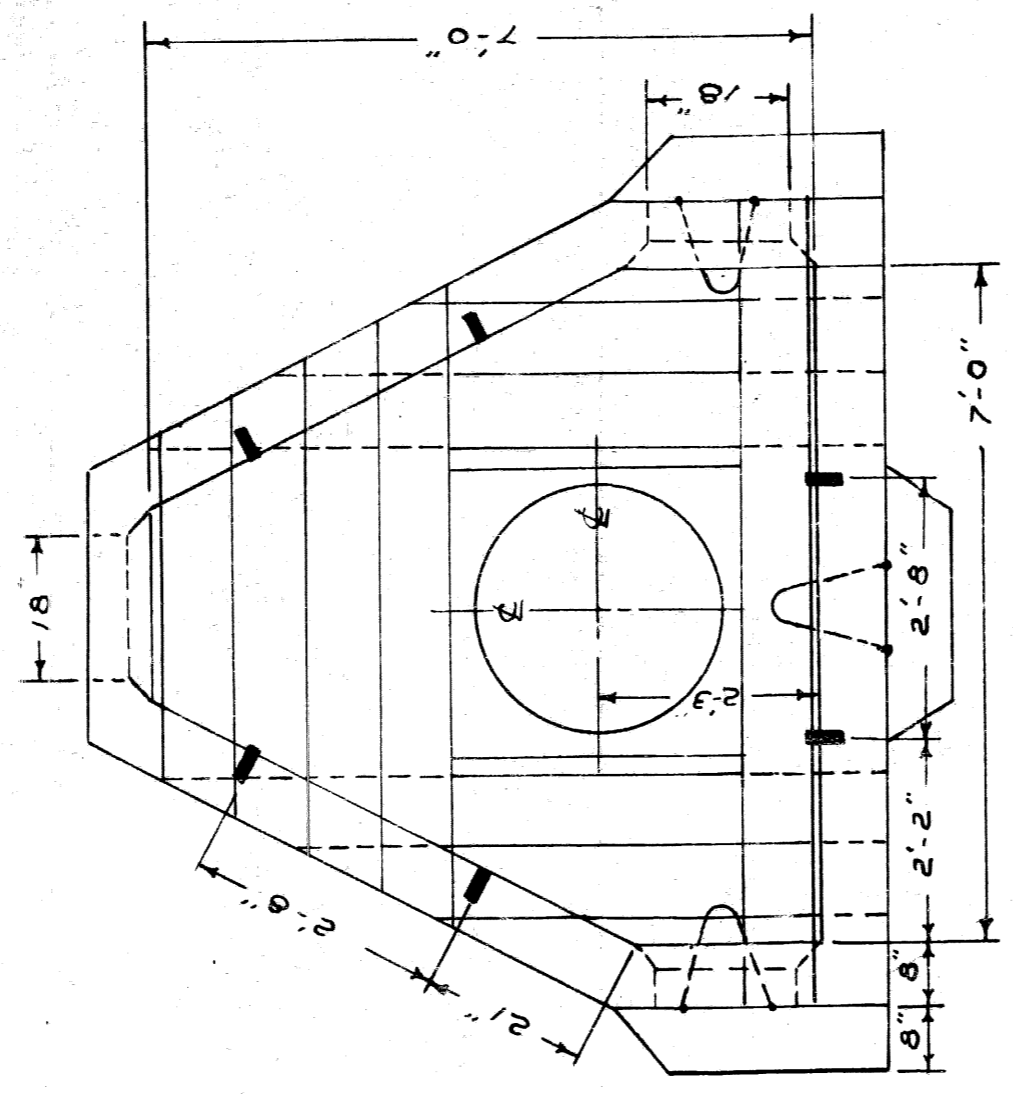
2-WAY



ELEVATION 2-WAY



3-WAY



3-WAY

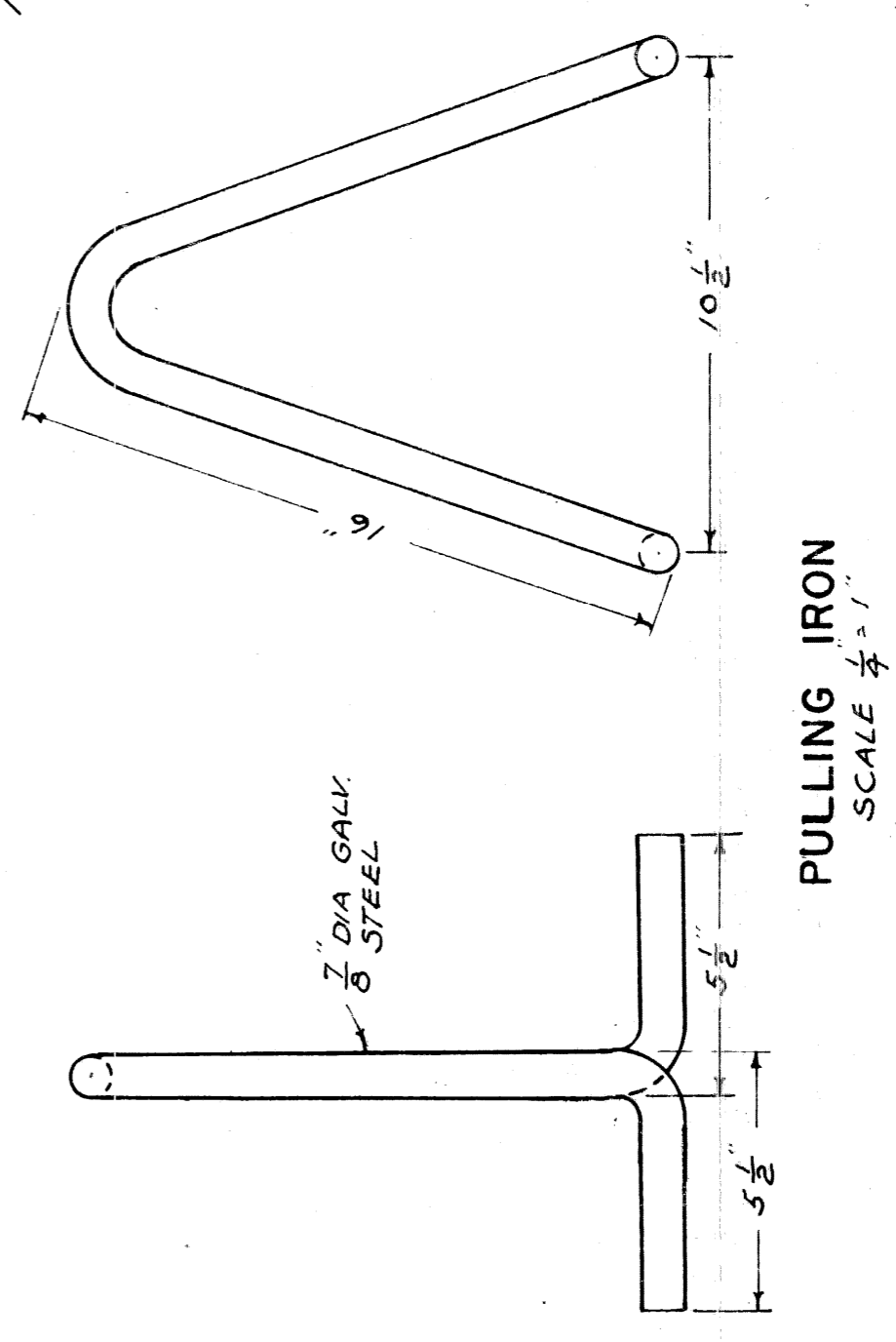
RAILS REQUIRED

CORNER	2-WAY	3-WAY	4-WAY
NO. LENGTH	2 4'-0"	2 4'-0"	2 4'-0"
SPEC.	2 3'-0"	2 3'-0"	2 3'-0"
2	4'-3"	4'-6"	4'-3"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"

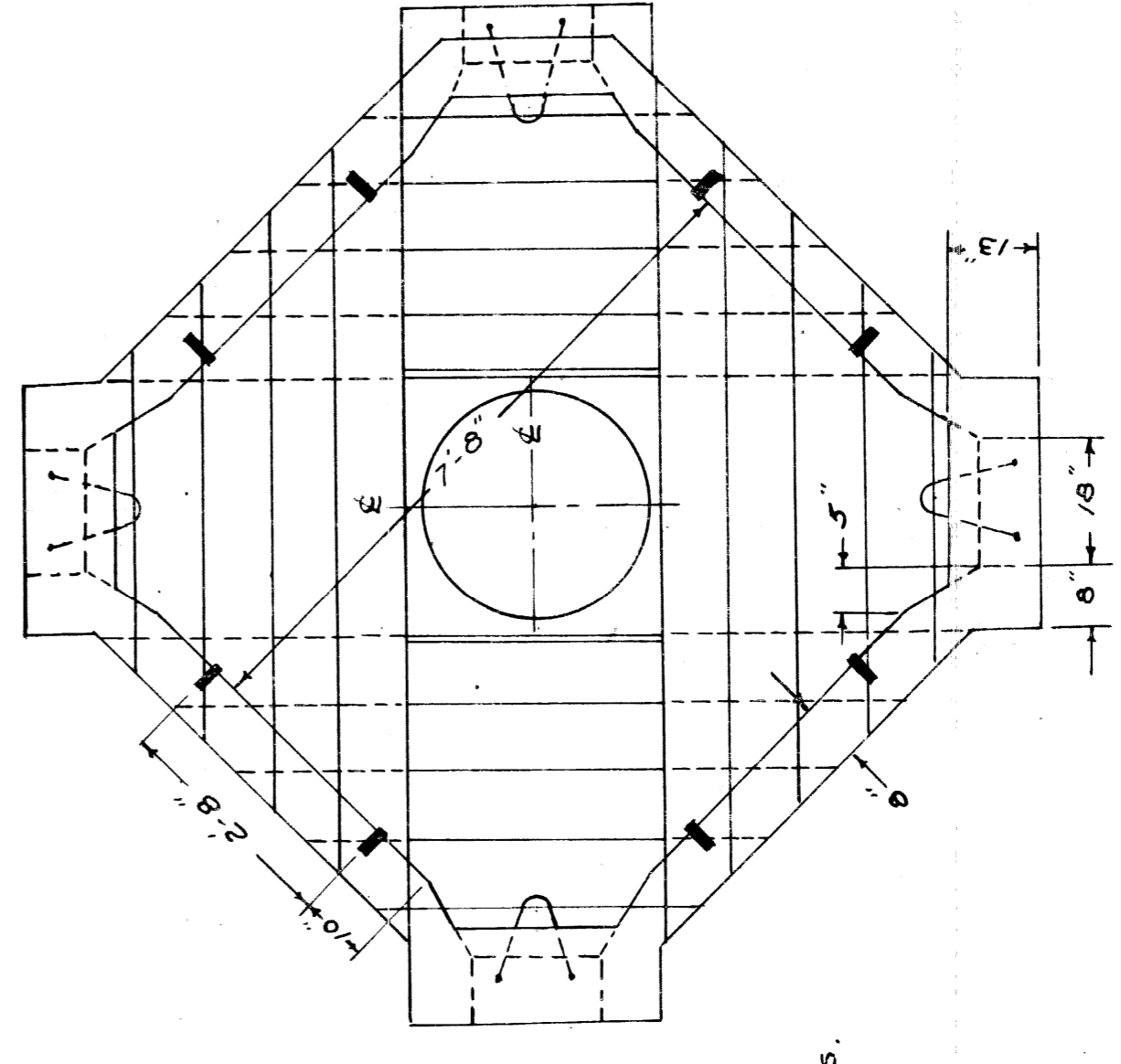
SPECIAL RAIL DIMENSION  
31" LONG TOP  
33" LONG BOTTOM

**CABLE RACK NOTE**  
USE JOSLYN CAT. # J.5124 RACK OR EQUAL  
USE JOSLYN CAT. # J.5131 HOOK OR EQUAL  
USE GALVANIZED MOUNTING BOLTS

**NOTE:** Excavation limits for Public Lighting Commission manholes shall be on vertical planes on the footing outline.



PULLING IRON  
SCALE 1/2" = 1'



4-WAY

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

**NOTES:**  
1. MANHOLE ROOF TO HAVE 60% D. OR HEAVIER "T" RAILS SPACED ONE BRICK APART WITH ONE ROW OF BRICKS ON EDGE BETWEEN RAILS.  
2. WHERE MANHOLES ARE LOCATED BACK OF CURB, ROOF MUST BE BUILT 18" BELOW CURB GRADE, TO PROVIDE FOR FUTURE WIDENING.  
3. MANHOLE NUMBER TO BE INSTALLED ON MANHOLE WALL.  
4. BOLTS, RACKS AND PULLING IRON TO BE HOT DIP GALVANIZED.  
5. MANHOLES TO HAVE 5'-0" MIN. HEADROOM EXCEPT WHERE MORE THAN SIX QUARTERS ARE REQUIRED FOR LOWER RAILS.  
6. MOUNTING HEIGHT FOR LOWER RAILS TO BE 6" FROM MAIN CONDUITS.  
7. THE AVERAGE HEIGHT OF THE BOTTOM OF LOWEST DUCTS IN THE MAIN CONDUITS.  
8. 6" OF RAILS UNDER M.H. FRAME FLANGE TO BE APPROX. 18" FROM EDGE OF FRAME.  
9. S. OF FRAME PROVIDE AT LEAST 3" BETWEEN ROOF AND BASE OF PAVEMENT WHERE EXISTING GRADE IS HIGHER THAN PROPOSED FUTURE GRADE. (INSTALL 1/2" OF GROUT (AS REQUIRED) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.)

RAILS REQUIRED

CORNER	2-WAY	3-WAY	4-WAY
NO. LENGTH	2 4'-0"	2 4'-0"	2 4'-0"
SPEC.	2 3'-0"	2 3'-0"	2 3'-0"
2	4'-3"	4'-6"	4'-3"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"
2	4'-0"	4'-3"	4'-0"

SPECIAL RAIL DIMENSION  
31" LONG TOP  
33" LONG BOTTOM

NO. 2 MANHOLES

CORNER

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
PLC DETAILS - MANHOLES

MICHIGAN STATE HIGHWAY DEPARTMENT

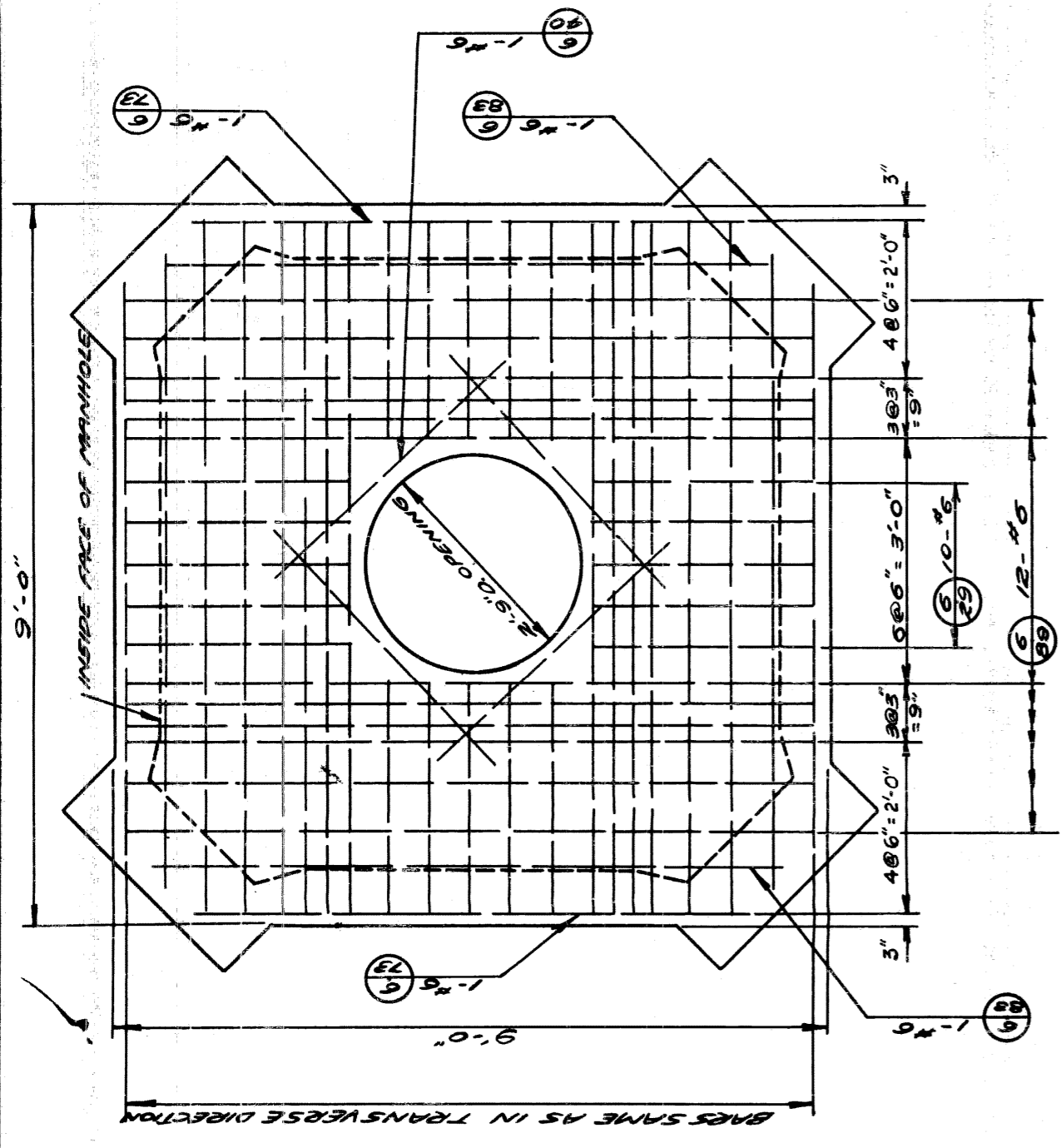
DRAWN BY FILE NO. M.P.C. 55-30  
CHECKED BY SHEET NO. 7  
APPROVED DATE R.M.F. 1-2-52

APPROVED: CHIEF BRIDGE DRAFTSMAN  
APPROVED: ENGINEER OF BRIDGE DESIGN  
APPROVED: BRIDGE ENGINEER

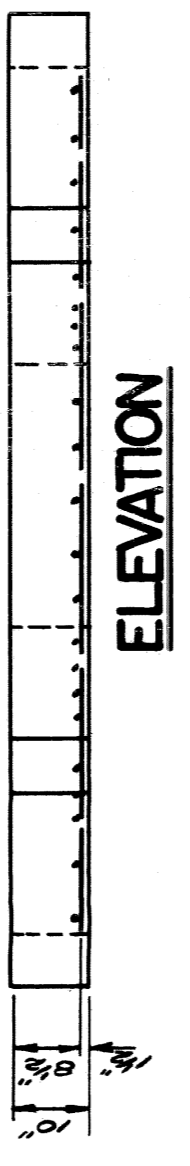
REVISIONS

NO.	DESCRIPTION	DATE	BY
1	CABLE RACK NOTE ADDED	10-7-53	J.C.E.
2	NOTE #8 CHANGED	4-31-54	J.C.E.
3	EXCAVATION LIMITS NOTE ADDED	8-25-51	J.C.E.

82111-C14



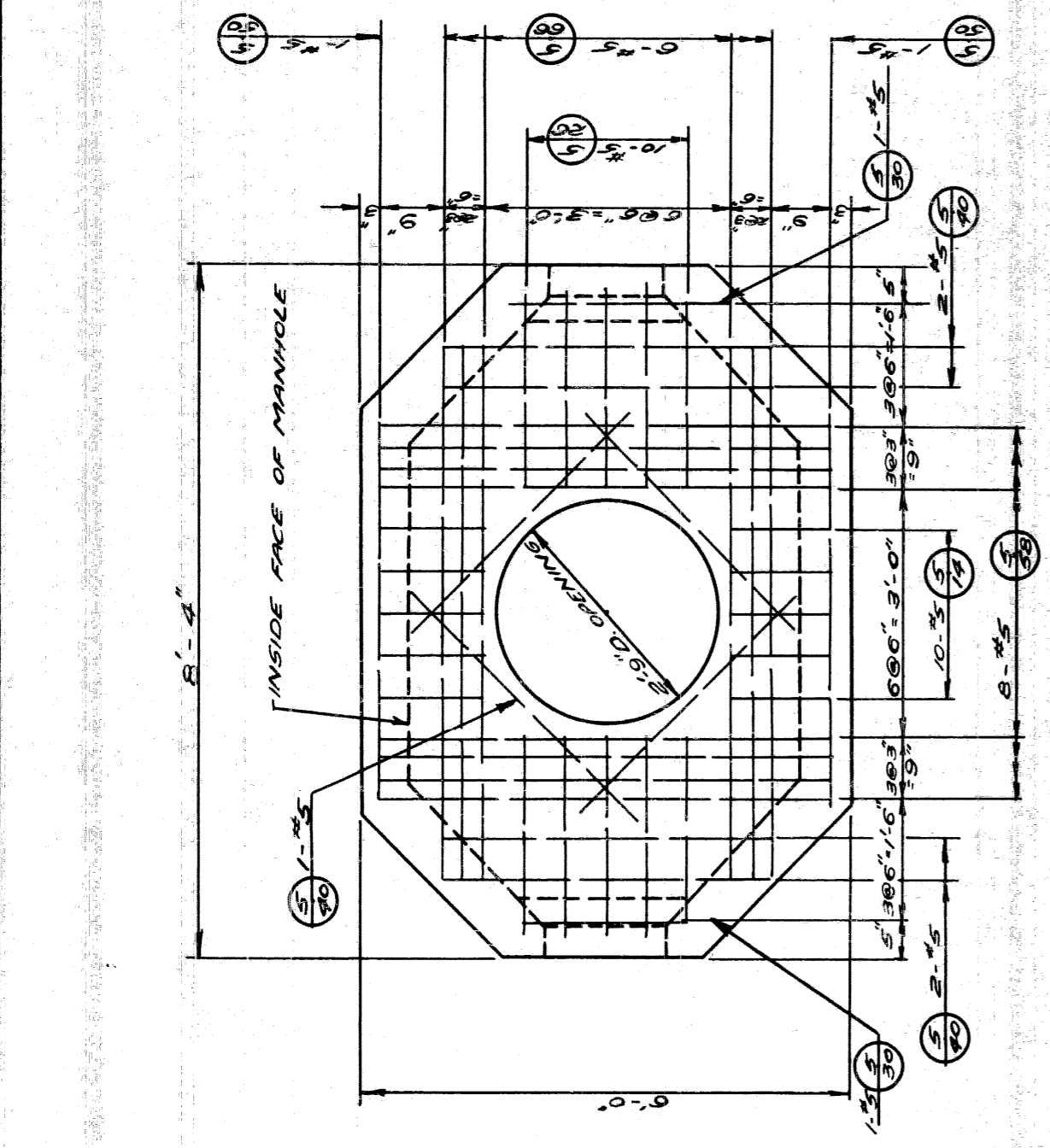
**PLAN**



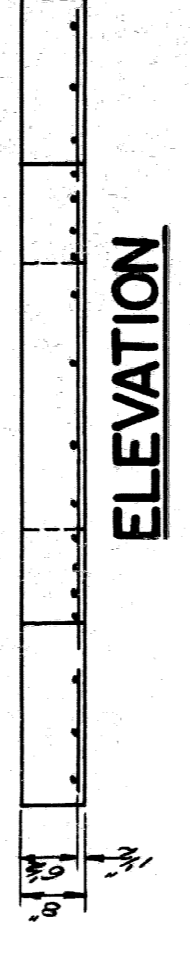
**ELEVATION**

**FOR #1-4 WAY MANHOLE**  
SCALE 1/2"=1'-0"

TABLE FOUR 3/8 BARS	FRAME AND LENGTH
5'-00" 0	6'-9"
5'-00" 2	6'-9"
5'-00" 4	6'-9"
5'-00" 6	6'-9"
5'-00" 8	6'-9"
5'-00" 10	6'-9"
5'-00" 12	6'-9"
5'-00" 14	6'-9"
5'-00" 16	6'-9"
5'-00" 18	6'-9"
5'-00" 20	6'-9"



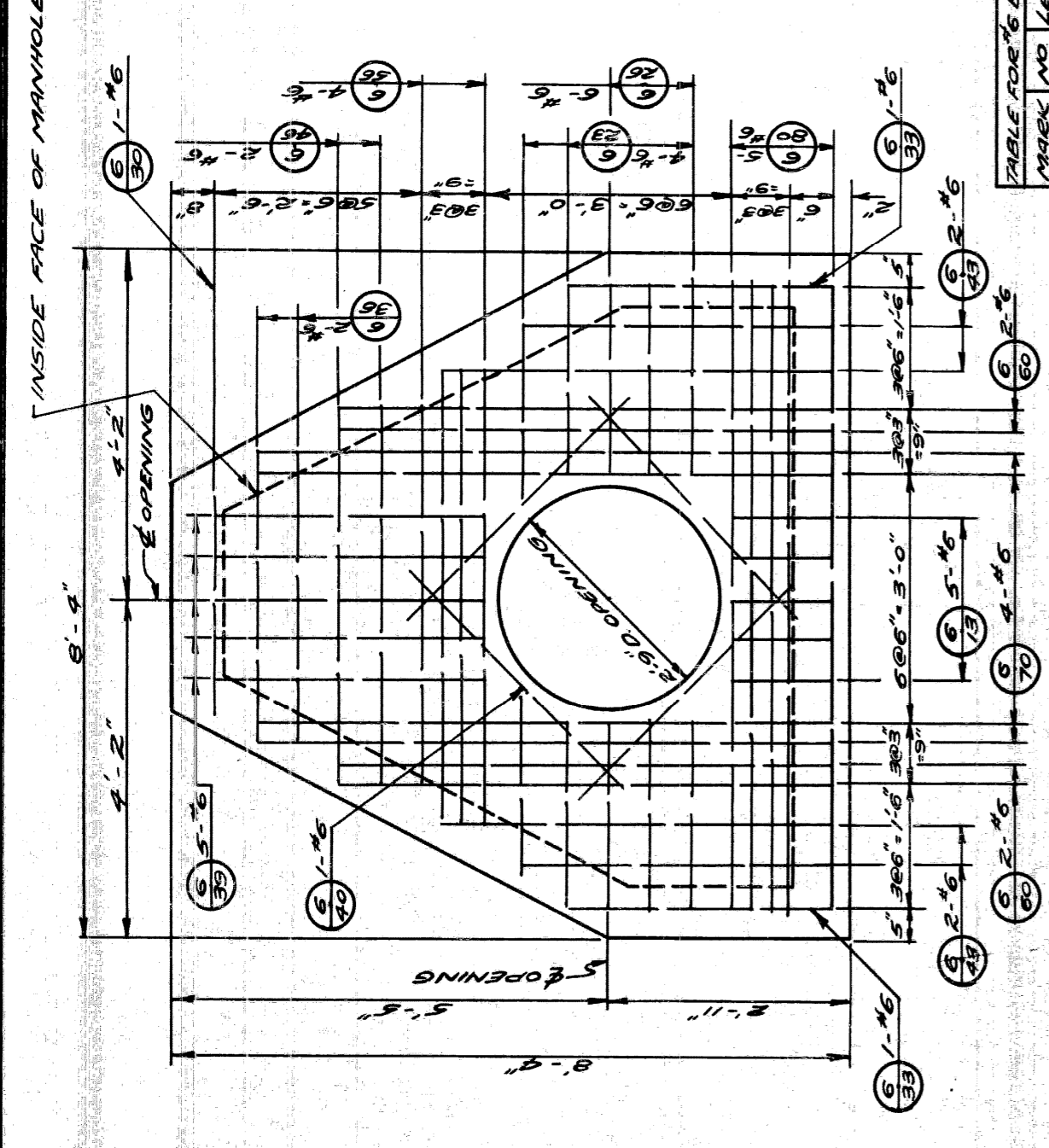
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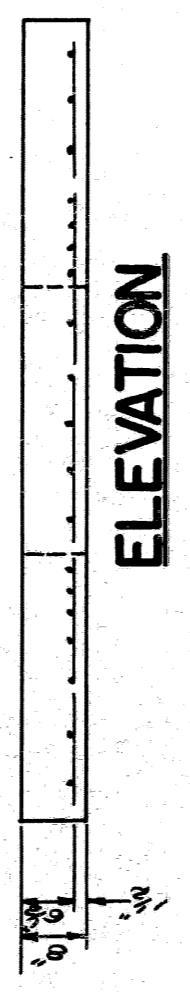
**ELEVATION**

**FOR #1-2 WAY MANHOLE**  
SCALE 1/2"=1'-0"

TABLE FOUR 3/8 BARS	FRAME AND LENGTH
5'-00" 0	6'-8"
5'-00" 2	6'-8"
5'-00" 4	6'-8"
5'-00" 6	6'-8"
5'-00" 8	6'-8"
5'-00" 10	6'-8"
5'-00" 12	6'-8"
5'-00" 14	6'-8"
5'-00" 16	6'-8"
5'-00" 18	6'-8"
5'-00" 20	6'-8"



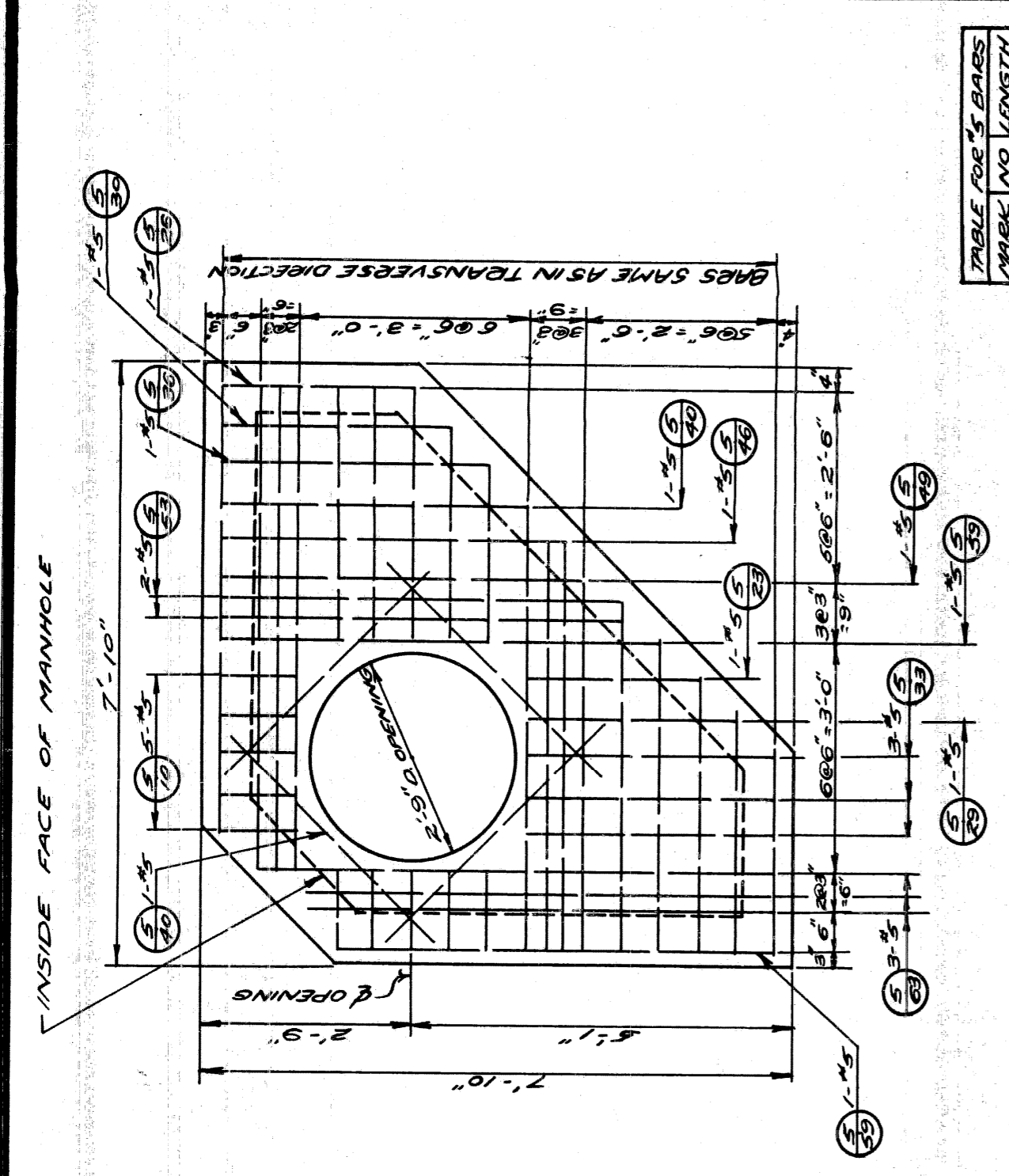
**PLAN**



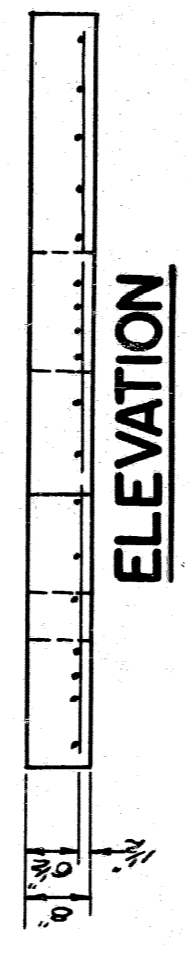
**ELEVATION**

**FOR #1-3 WAY MANHOLE**  
SCALE 1/2"=1'-0"

TABLE FOUR 3/8 BARS	FRAME AND LENGTH
6'-00" 0	7'-10"
6'-00" 2	7'-10"
6'-00" 4	7'-10"
6'-00" 6	7'-10"
6'-00" 8	7'-10"
6'-00" 10	7'-10"
6'-00" 12	7'-10"
6'-00" 14	7'-10"
6'-00" 16	7'-10"
6'-00" 18	7'-10"
6'-00" 20	7'-10"



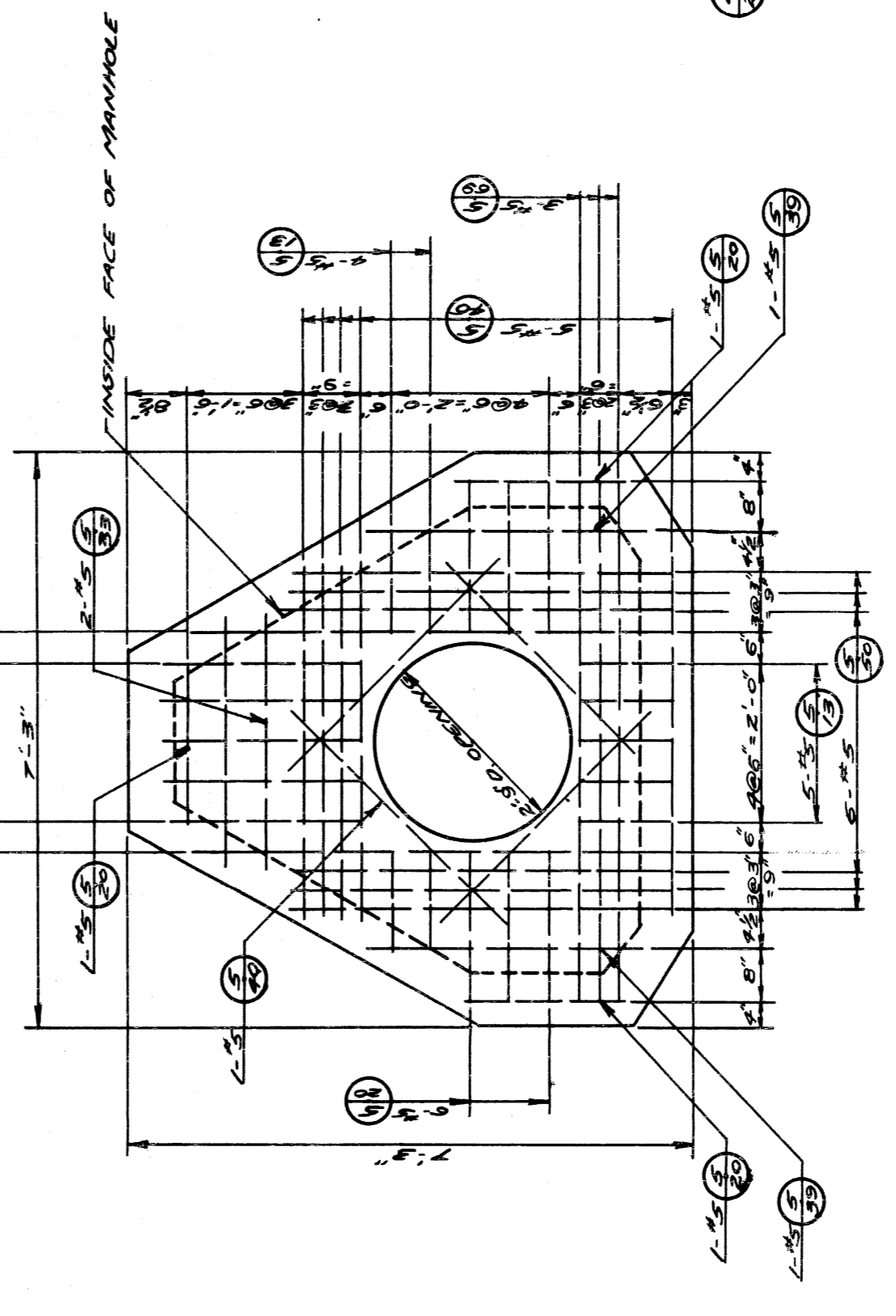
**PLAN**



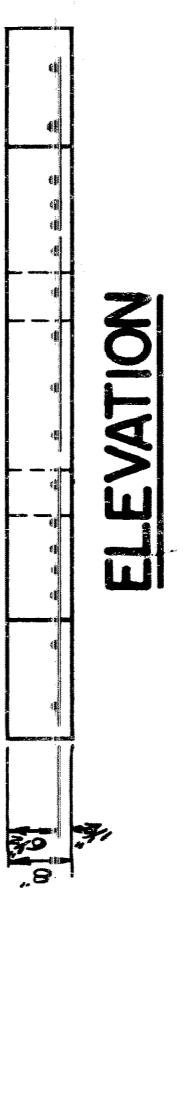
**ELEVATION**

**FOR #1-CORNER MANHOLE**  
SCALE 1/2"=1'-0"

TABLE FOUR 3/8 BARS	FRAME AND LENGTH
5'-00" 0	6'-10"
5'-00" 2	6'-10"
5'-00" 4	6'-10"
5'-00" 6	6'-10"
5'-00" 8	6'-10"
5'-00" 10	6'-10"
5'-00" 12	6'-10"
5'-00" 14	6'-10"
5'-00" 16	6'-10"
5'-00" 18	6'-10"
5'-00" 20	6'-10"



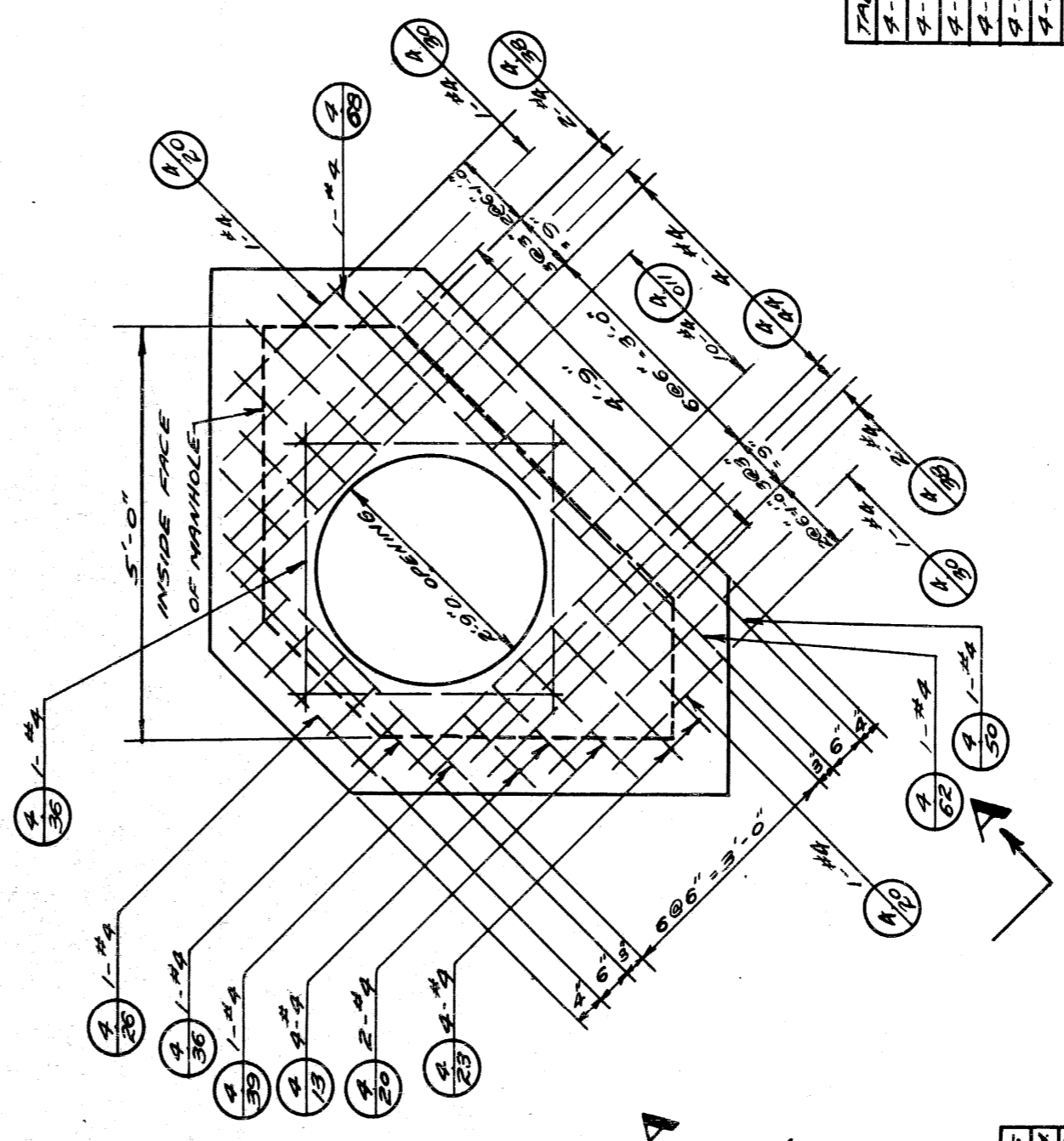
**PLAN**



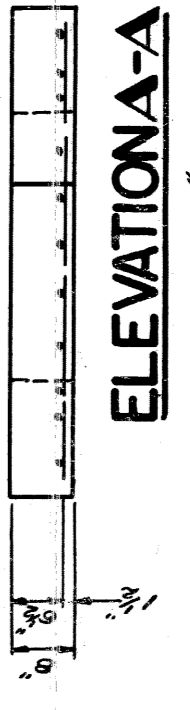
**ELEVATION**

**FOR #2-3 WAY MANHOLE**  
SCALE 1/2"=1'-0"

TABLE FOUR 3/8 BARS	FRAME AND LENGTH
5'-00" 0	6'-9"
5'-00" 2	6'-9"
5'-00" 4	6'-9"
5'-00" 6	6'-9"
5'-00" 8	6'-9"
5'-00" 10	6'-9"
5'-00" 12	6'-9"
5'-00" 14	6'-9"
5'-00" 16	6'-9"
5'-00" 18	6'-9"
5'-00" 20	6'-9"



**PLAN**



**ELEVATION-A**

SCALE 1/2"=1'-0"

**FOR #2-CORNER MANHOLE**  
SCALE 1/2"=1'-0"

TABLE FOUR 3/8 BARS	FRAME AND LENGTH
4'-00" 0	6'-7-6"
4'-00" 2	6'-7-6"
4'-00" 4	6'-7-6"
4'-00" 6	6'-7-6"
4'-00" 8	6'-7-6"
4'-00" 10	6'-7-6"
4'-00" 12	6'-7-6"
4'-00" 14	6'-7-6"
4'-00" 16	6'-7-6"
4'-00" 18	6'-7-6"
4'-00" 20	6'-7-6"

NOTES :-  
1. WOE THIS SHEET WITH "P.L.C." DETAILS - MANHOLES.  
2. ALL CONCRETE IS MASHO GRADE "A" (89)  
3. ALL REINFORCING BARS ARE TO BE PROVIDED IN ACCORDANCE WITH CURRENT USCS CODES BY THE CONCRETE REINFORCING STEEL INSTITUTE.

**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**  
**P.L.C. DETAILS**  
**ALTERNATE MANHOLE ROOFS**  
**MICHIGAN STATE HIGHWAY DEPARTMENT**

APPROVED: \_\_\_\_\_  
CHIEF BRIDGE DRAFTSMAN

APPROVED: \_\_\_\_\_  
ENGINEER OF BRIDGE DESIGN

APPROVED: \_\_\_\_\_  
BRIDGE ENGINEER

DESIGN BY FILE NO. **R.S.P. 55-38**  
CHECKED BY SHEET NO. **7A**  
DATE **3-15-52**  
BY **C.H.S.**  
**C.H.I.**

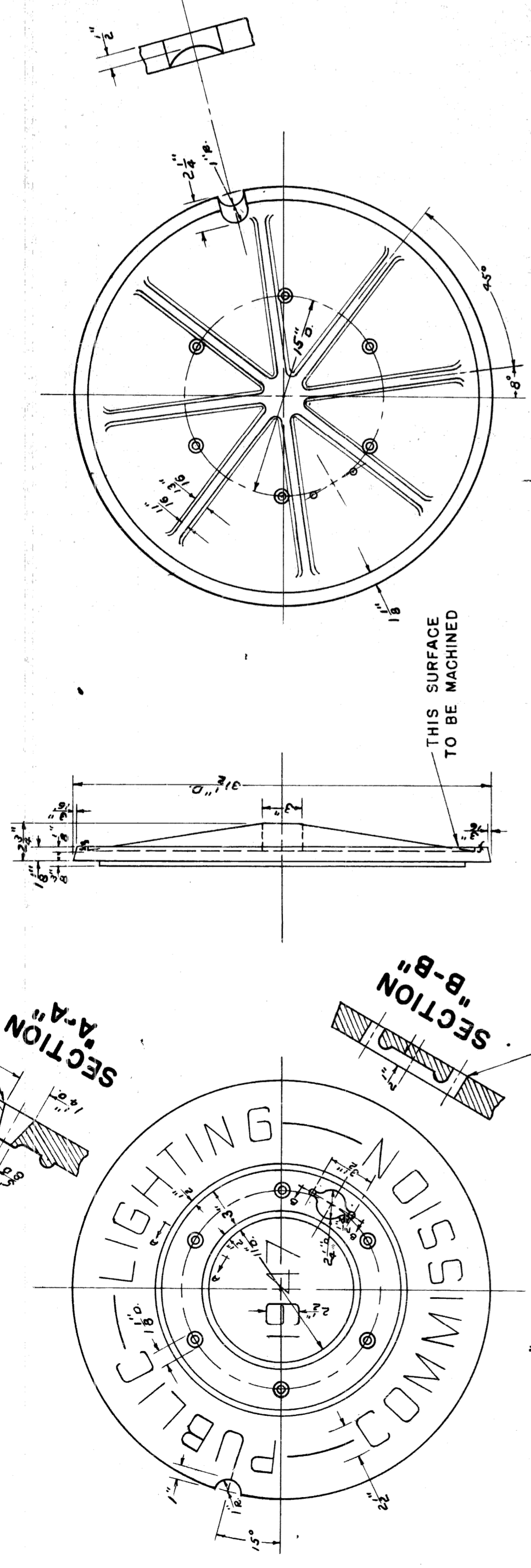
REVISIONS

NO.	DESCRIPTION	DATE	BY
1	DESIGNATION CHANGE	4-10-52	C.H.S.
2	STEEL DIMENSION CHANGED	4-18-52	C.H.S.

8211-C14

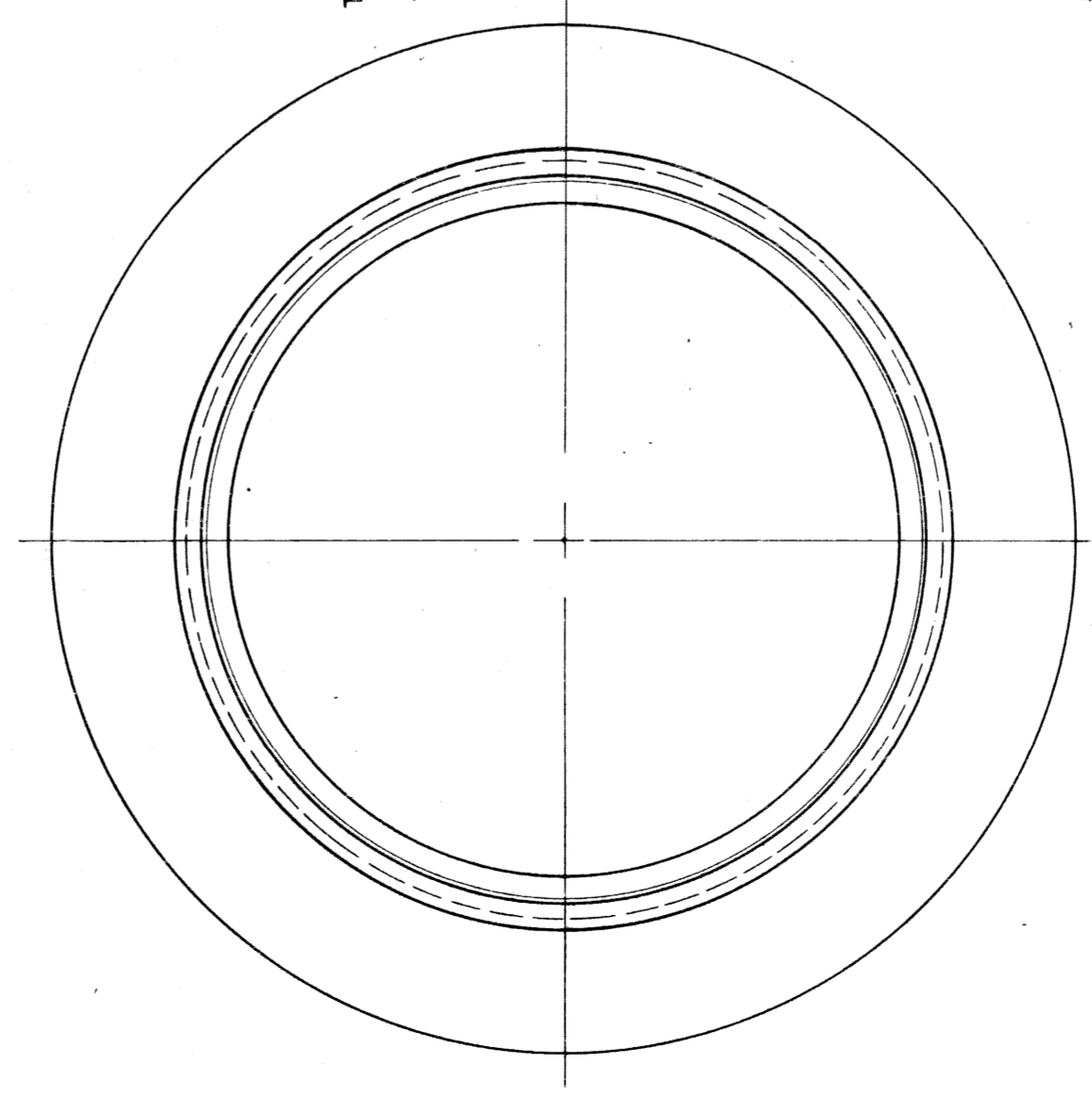
SECTION A-A  
SECTION B-B

6 HOLES CORED AS SHOWN



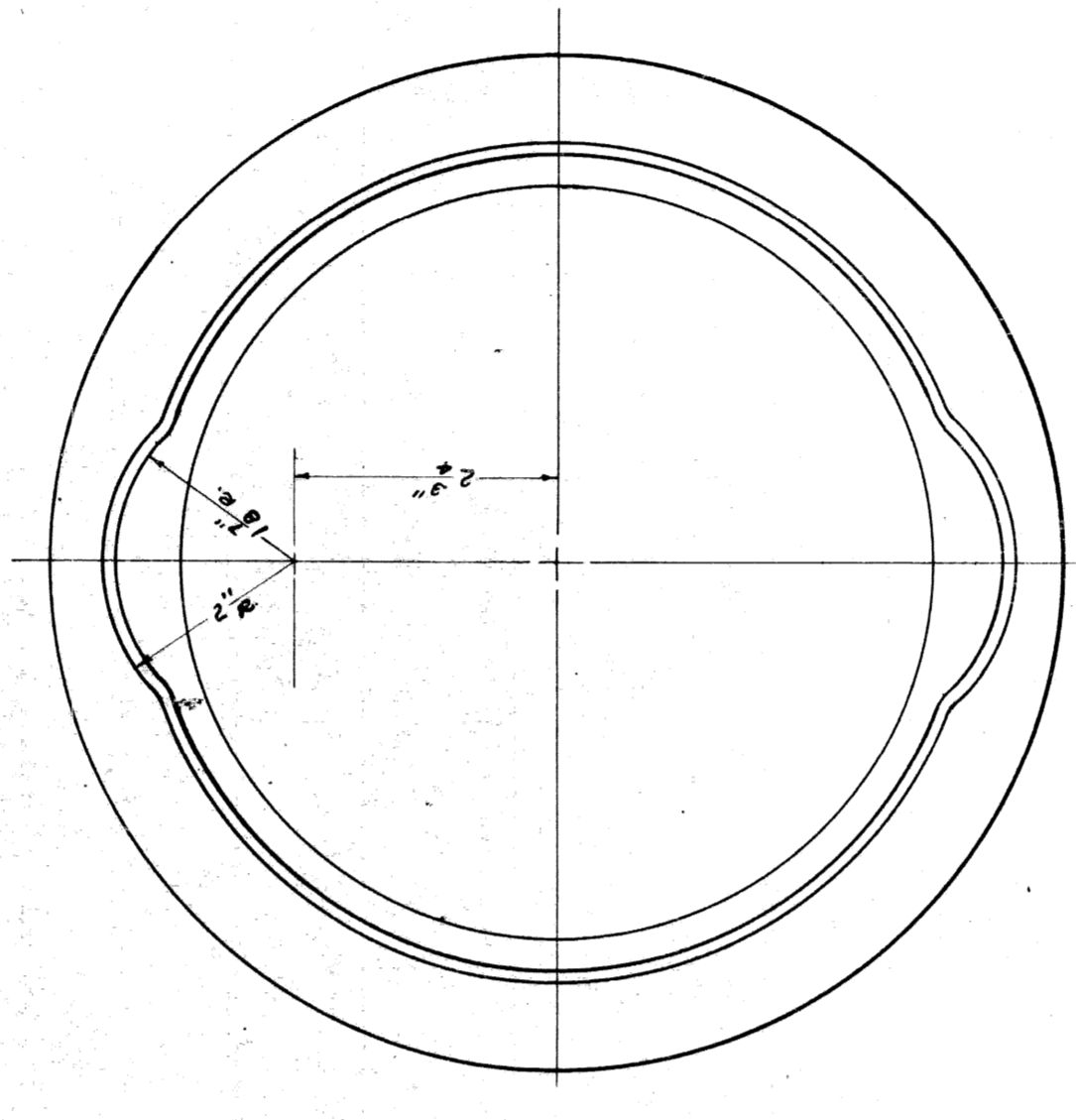
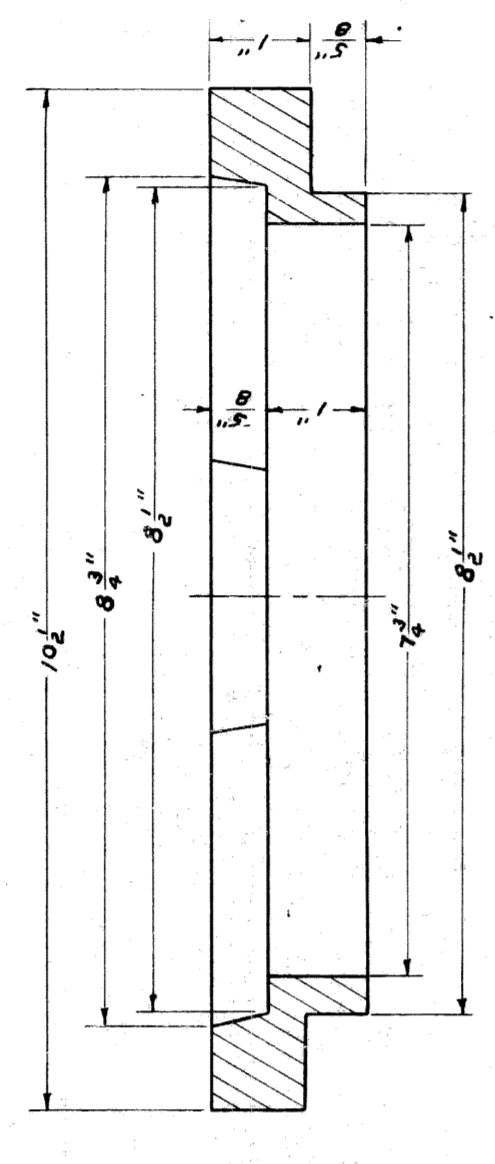
LETTERING & BEAD RAISED 3/8" ABOVE FACE.  
YEAR ON COVER TO BE YEAR OF CASTING.  
CONTRACTOR TO CHANGE PATTERN IF REQUIRED.

**MANHOLE COVER**  
ASTM. CLASS 30 GRAY IRON  
P.L.C. PATT. NO. 418  
APPROX. WT. - 245 #  
SCALE: 1/2" = 1'-0"

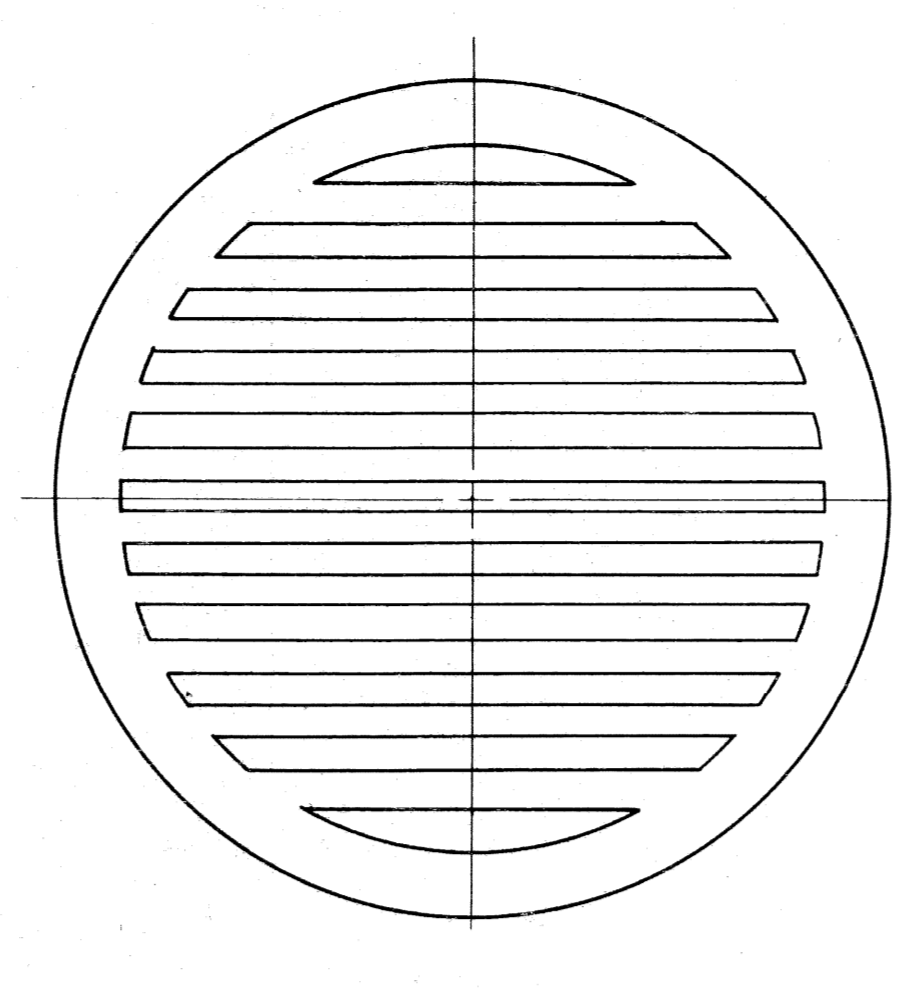
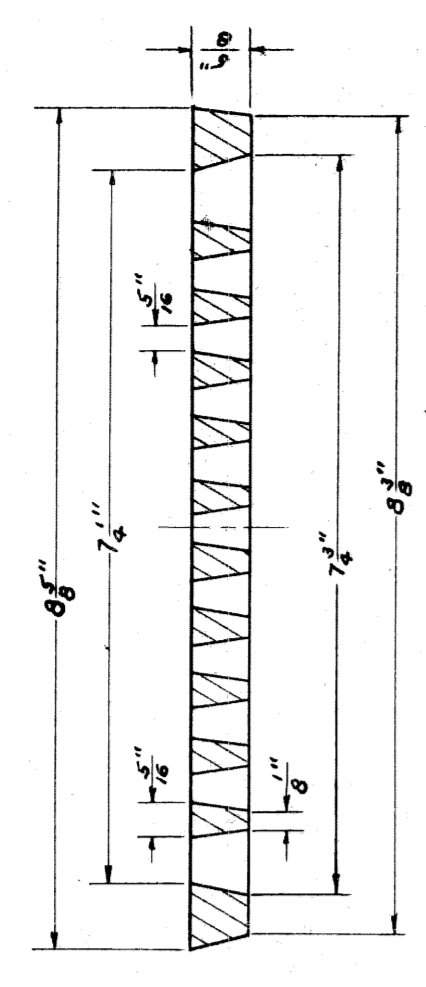


**MANHOLE FRAME**  
ASTM. CLASS 20 GRAY IRON  
P.L.C. PATT. NO. 417  
APPROX. WT. - 440 #  
SCALE: 1/2" = 1'-0"

NOTE:-  
FRAMES MAY BE ASTM. CLASS 30 GRAY IRON  
IF THE CONTRACTOR SO ELECTS.



**SEWER RING**  
ASTM. CLASS 20 GRAY IRON  
P.L.C. PATT. NO. 318-A  
APPROX. WT. - 9 #  
SCALE: HALF-SIZE

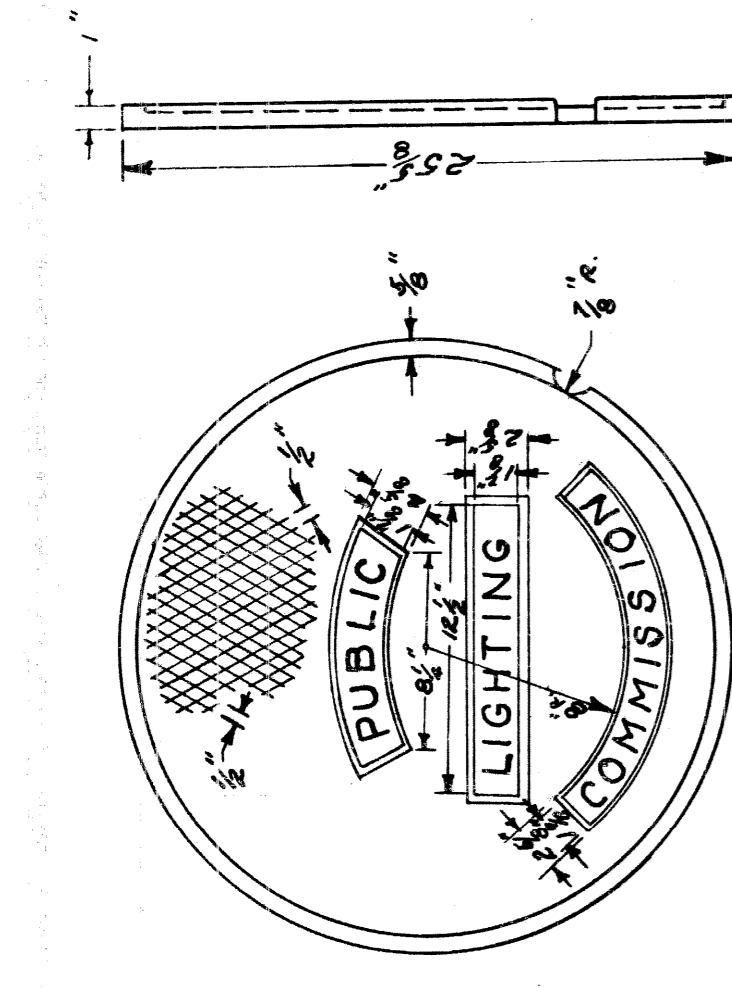


**SEWER GRATE**  
ASTM. CLASS 20 GRAY IRON  
P.L.C. PATT. NO. 318  
APPROX. WT. - 4.5 #  
SCALE: HALF-SIZE

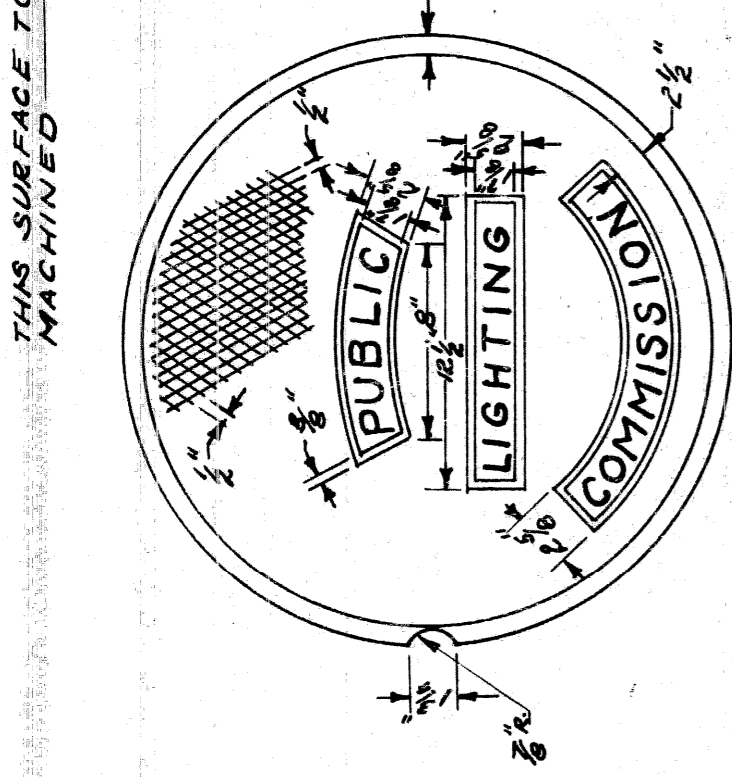
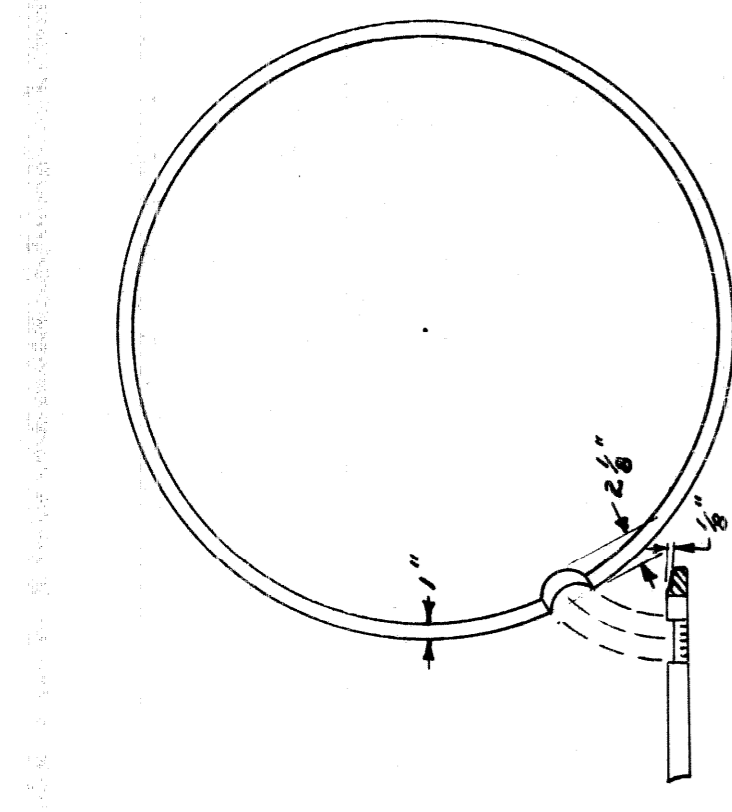
DRAWN BY <b>R.F.B.</b>	FILE NO. <b>55-3A</b>
	CHECKED BY <b>G.F.L.</b>
CITY OF DETROIT PUBLIC LIGHTING COMMISSION	SHEET NO. <b>8</b>
	DATE <b>8-10-47</b>
P.L.C. DETAILS - MANHOLE FRAME & COVER - SEWER GRATE & RING	
MICHIGAN STATE HIGHWAY DEPARTMENT	

NO.	DESCRIPTION	DATE	BY
1.	FRAME OVERALL HT. CHANGED FROM 8" TO 7 1/2" & COVER FLANGE THICKNESS CHANGED FROM 1 1/2" TO 1 1/4"	10-28-53	J.C.F.

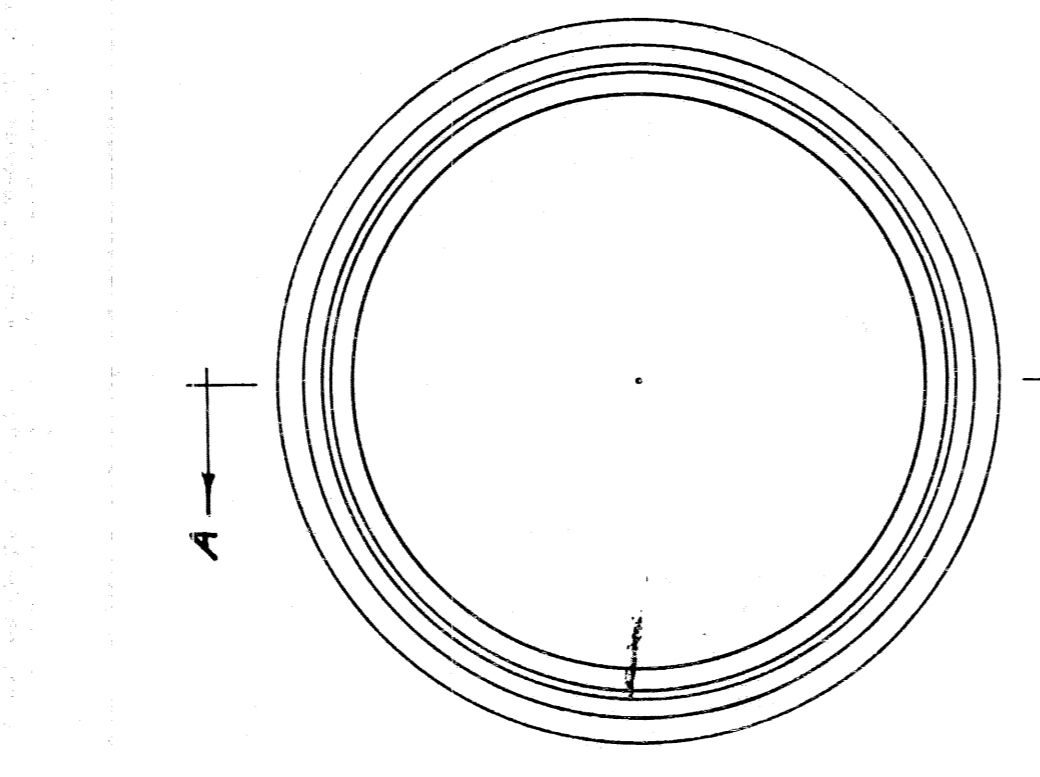
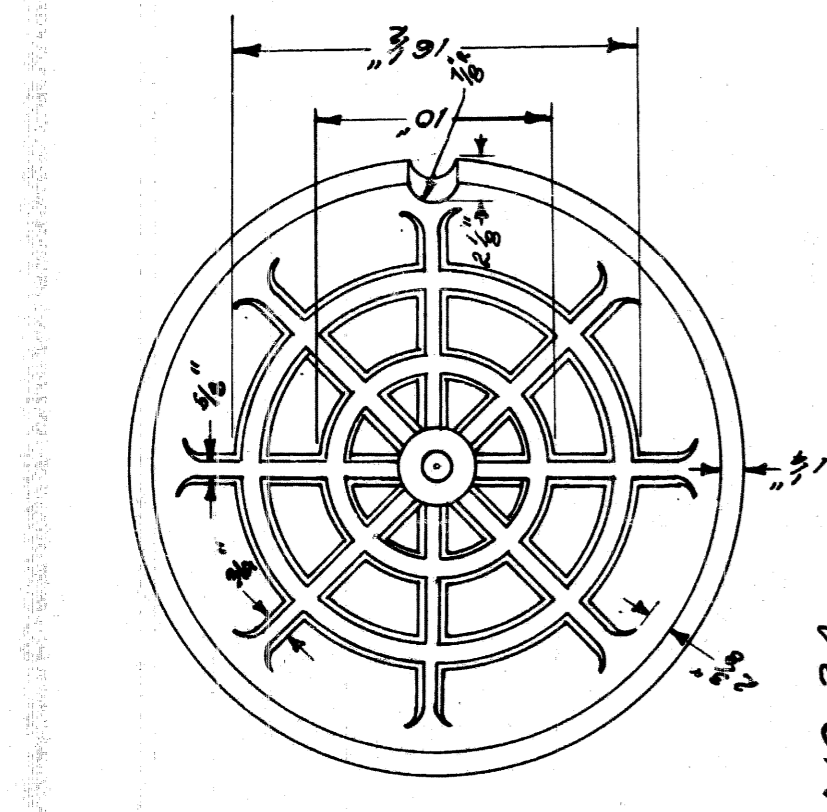
APPROVED	DATE
APPROVED	DATE
82111-C14	



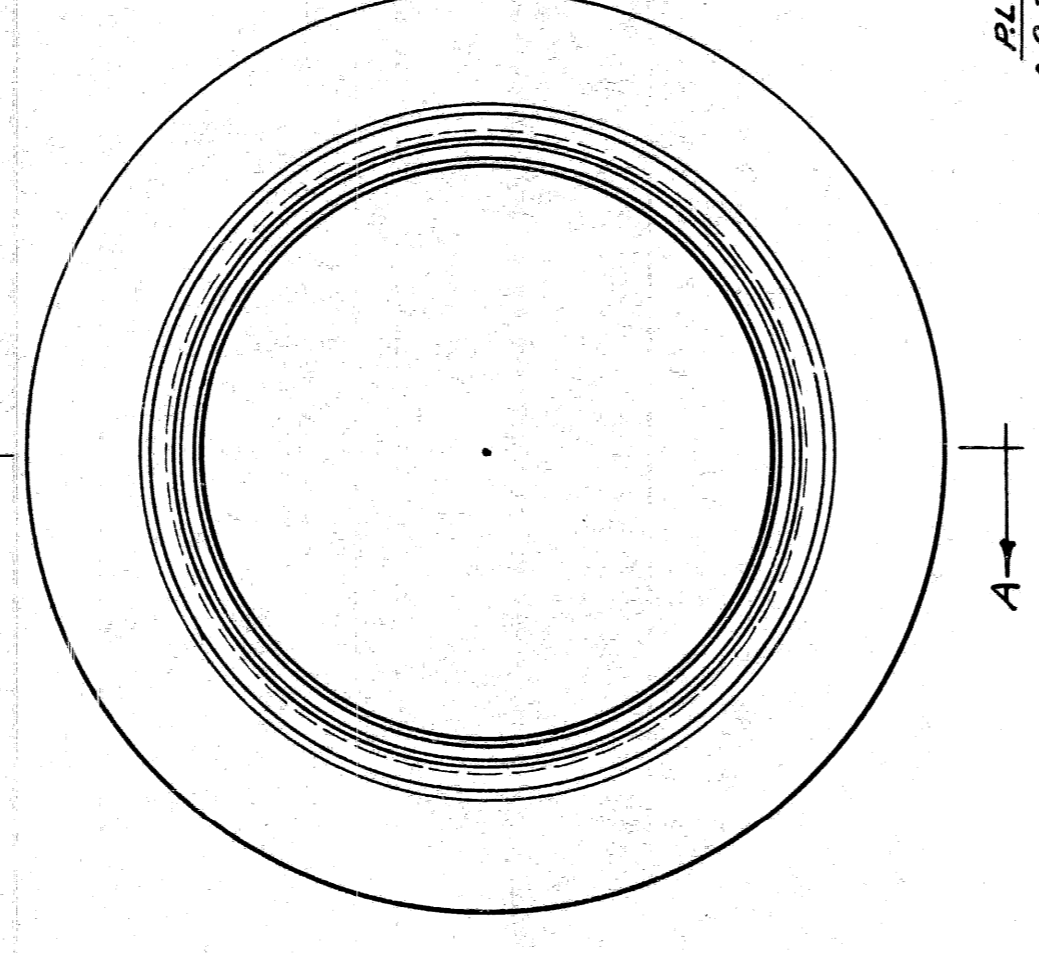
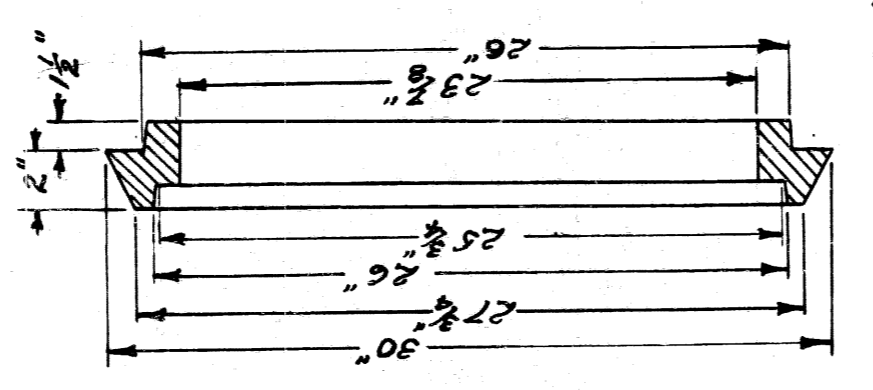
P.L.C. PATTERN NO. 419  
A.S.T.M. CLASS 50 GRAY IRON  
SIDEWALK TYPE  
COVER



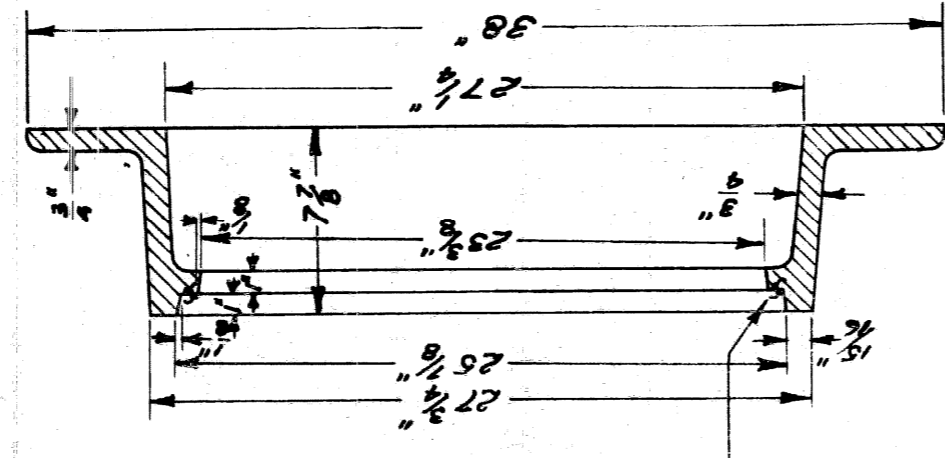
P.L.C. PATTERN NO. 2A  
A.S.T.M. CLASS 50 GRAY IRON  
APPROX. WT. 145 LBS.  
STREET COVER  
P.L.C. PATTERN NO. 2A



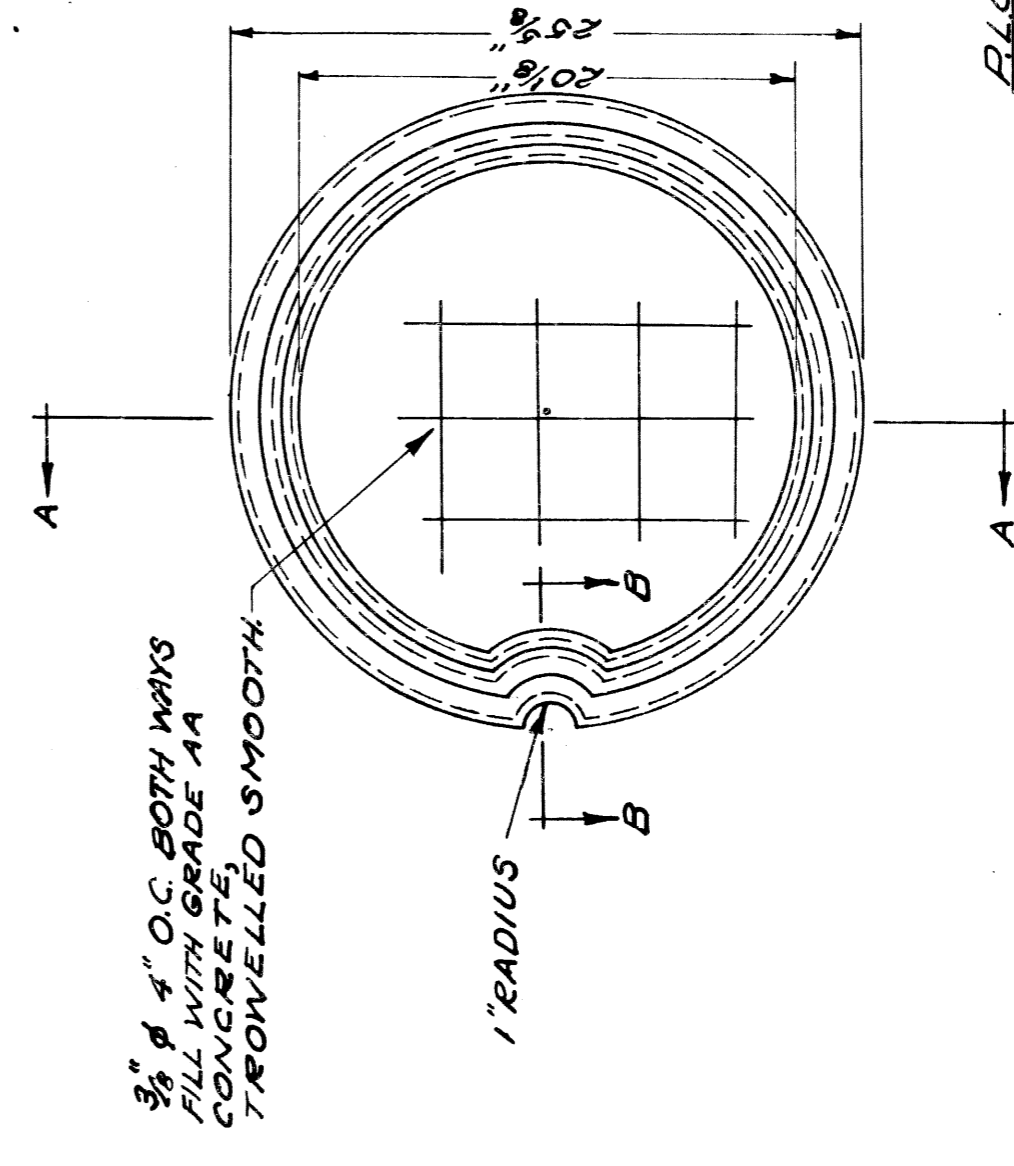
P.L.C. PATTERN NO. 420  
A.S.T.M. CLASS 50 GRAY IRON  
APPROX. WT. 122 LBS.  
SIDEWALK TYPE  
FRAME



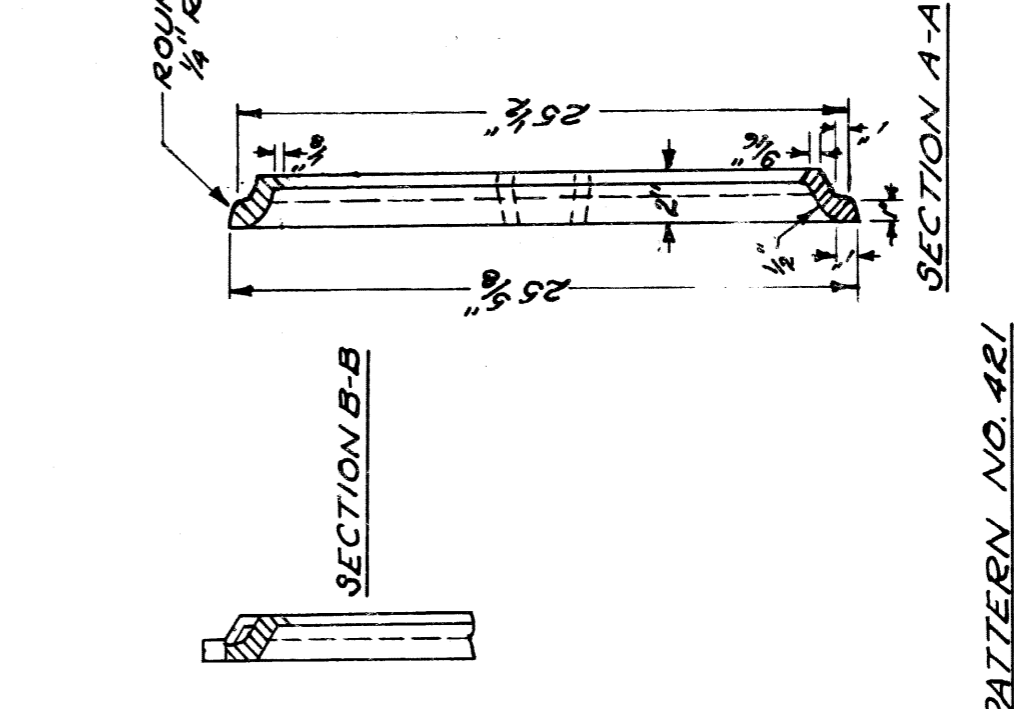
P.L.C. PATTERN NO. 1A  
A.S.T.M. CLASS 50 GRAY IRON  
APPROX. WT. 237 LBS.  
STREET FRAME



SECTION A-A  
ALL FILLETS ARE 1/2" RADIUS  
& ALL ROUNDS ARE 1/4" RADIUS



P.L.C. PATTERN NO. 421  
A.S.T.M. CLASS 50 GRAY IRON  
APPROX. WT. 11 LBS.  
SIDEWALK TYPE  
CONCRETE FILLED COVER



SECTION A-A  
SECTION B-B

NOTE:  
FRAMES MAY BE A.S.T.M. CLASS 50 GRAY IRON  
IF THE CONTRACTOR SO ELECTS.

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P.L.C. DETAILS - HANDHOLES  
FRAMES & COVERS

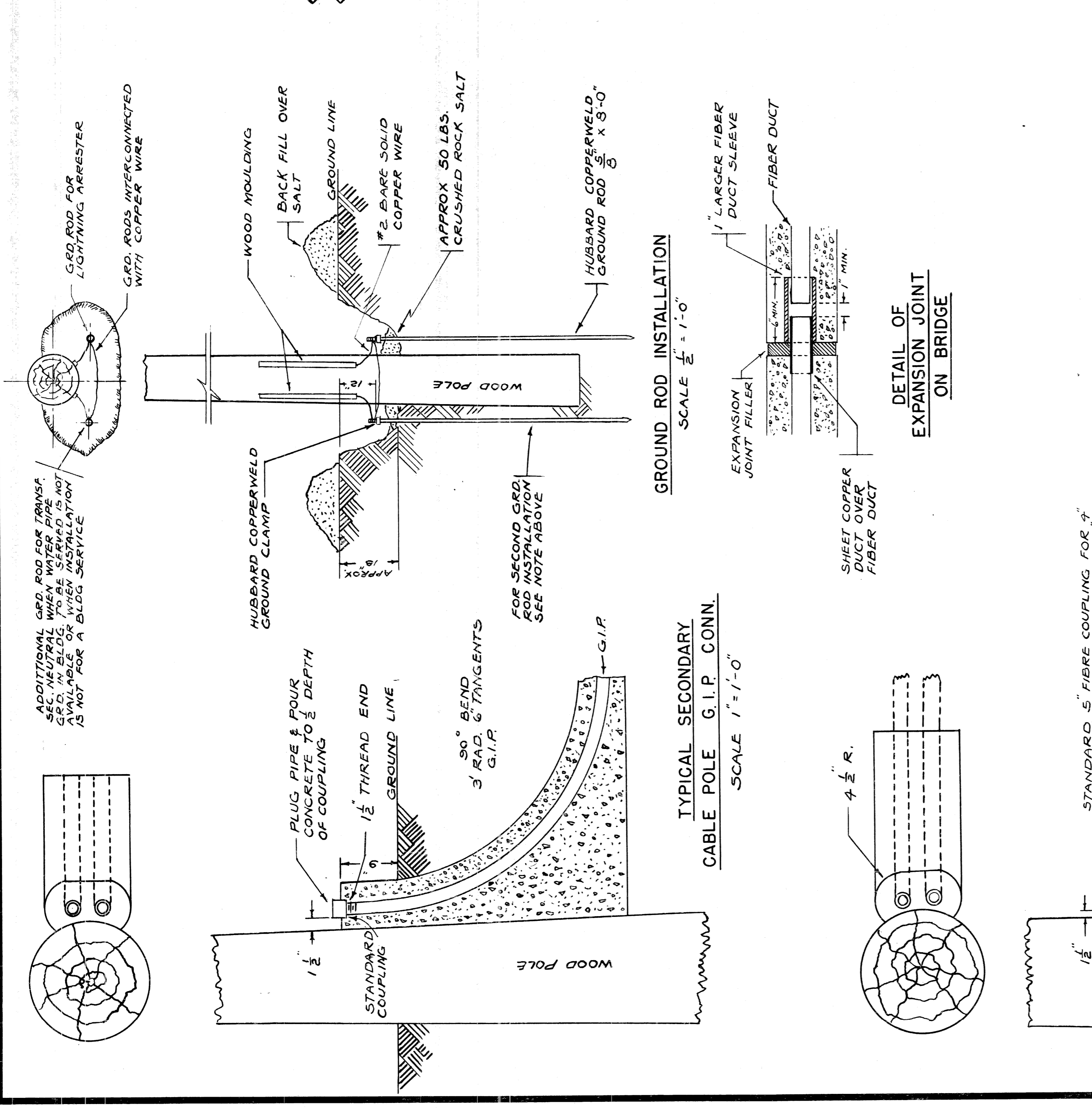
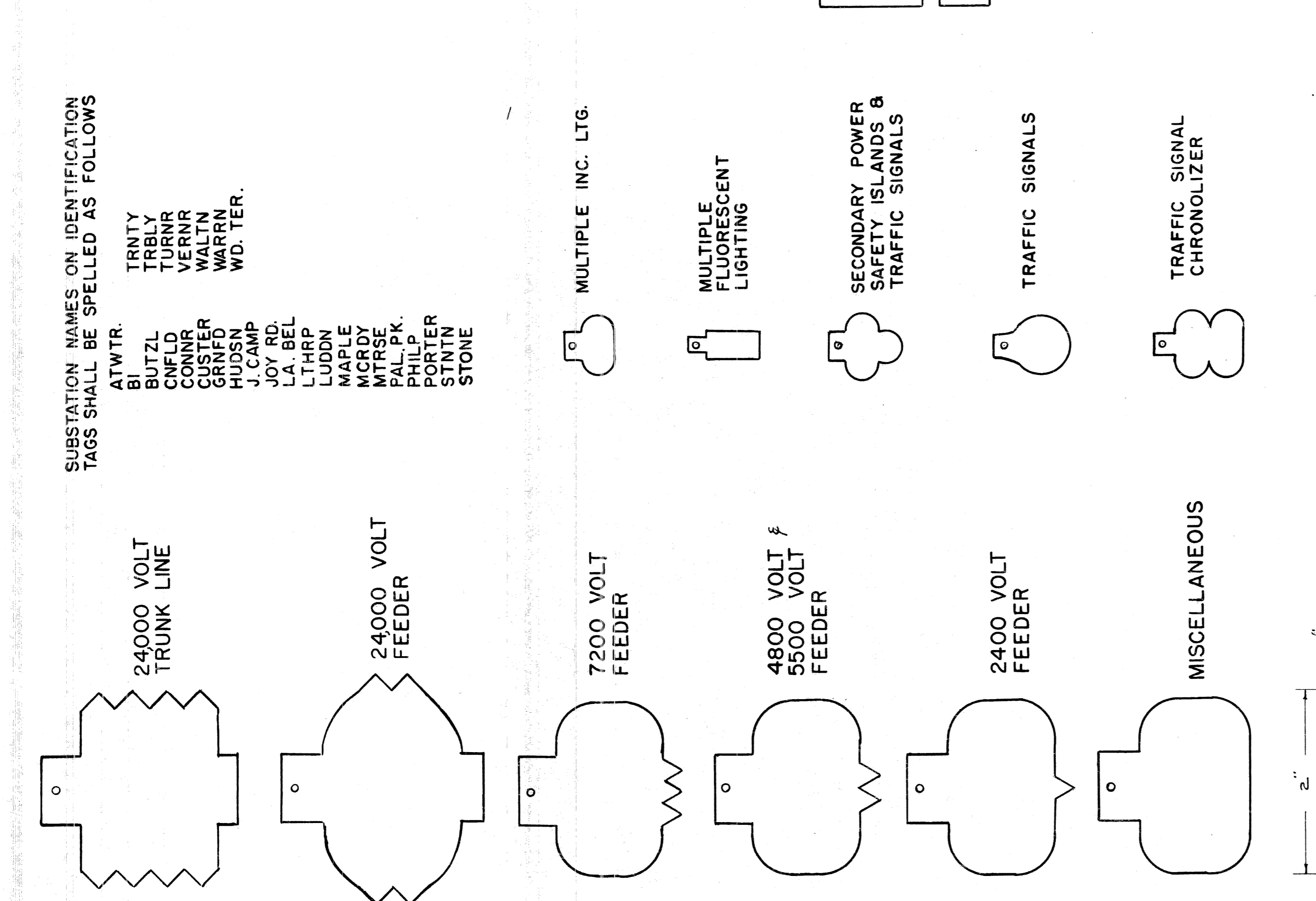
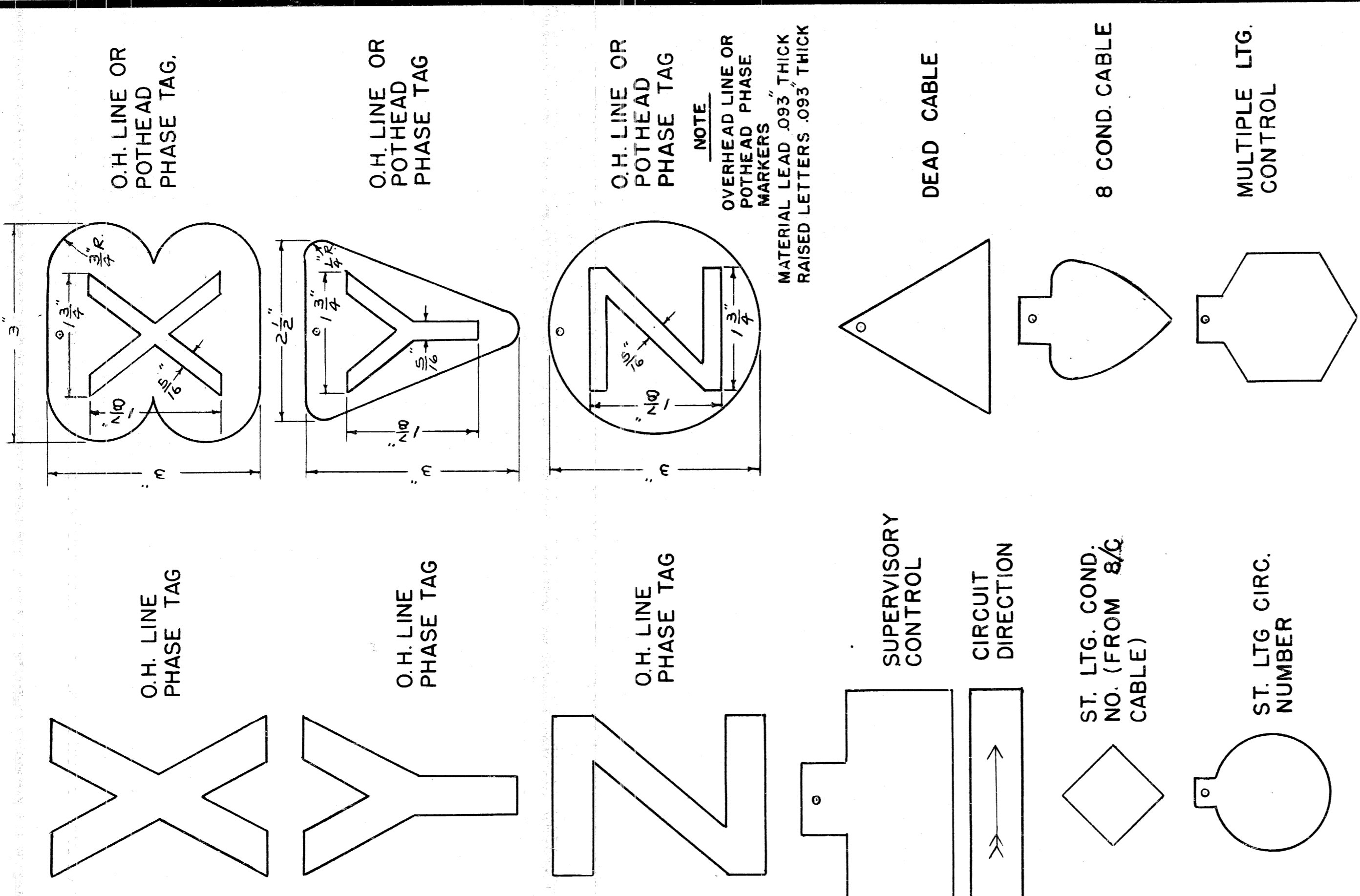
DRAWN BY R.G.P. FILE NO. 55-3D  
CHECKED BY SHEET NO. 9  
APPROVED BY DATE 2-5-32

MICHIGAN STATE HIGHWAY DEPARTMENT

NO.	DESCRIPTION	DATE	BY
1	MACALINE NOTES ADDED TO NO. 1A & THE DIMENSIONS	11-7-31	J.C.C.
2	CHANGE ST. FRAME PATTERN FROM P.L.C. PATTERN NO. 2A TO P.L.C. PATTERN NO. 2A	11-7-31	J.C.C.
3	FILLET NOTE ADDED	11-7-31	J.C.C.

APPROVED \_\_\_\_\_ CHIEF BRIDGE DRAFTSMAN  
APPROVED \_\_\_\_\_ ENGINEER OF BRIDGE DESIGN  
APPROVED \_\_\_\_\_ BRIDGE ENGINEER

82111-C14



CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P.L.C. DETAILS  
CABLE POLE & CABLE MARKING TAGS

DRAWN BY M.L.C.  
FILE NO. 55-3

CHECKED BY [Signature]  
SHEET NO. 10

APPROVED BY [Signature]  
DATE 2-11-52

MICHIGAN STATE HIGHWAY DEPARTMENT

NOTE: CABLE TAG MARKINGS SUCH AS SUBSTATION OR CABLE MARKINGS WILL BE AS SHOWN ON PLANS OR WILL BE FURNISHED BY P. L. C.

IDENTIFICATION TAGS  
MATERIAL LEAD  $\frac{1}{4}$ "  
SCALE  $\frac{3}{4}$ " = 1"

CAST BRONZE POLE MARKER FOR ALL WOOD POLES

TYPICAL MARKING

C 45 - PLC 45 POLE  
60 - SET IN 1960

USE  $\frac{1}{4}$ " STEEL STAMP FOR LETTERING PIN SET MARKER 7'-0" ABOVE GRADE

FACE OF HEAD TO BE ROUGH-GROUND. P.L.C. PATTERN PROVIDES FOR 40 MARKERS PER POURING

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ADDED CAST BRONZE POLE MARKER 3'-0" P.L.C.		

REVISIONS

DATE

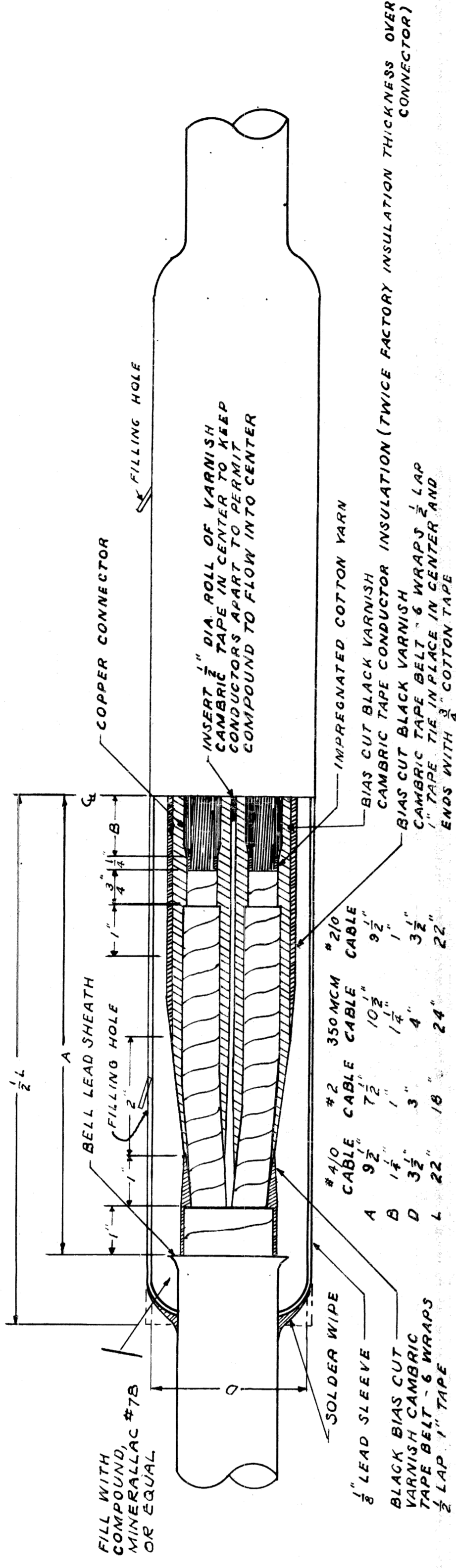
BY

8211-C14

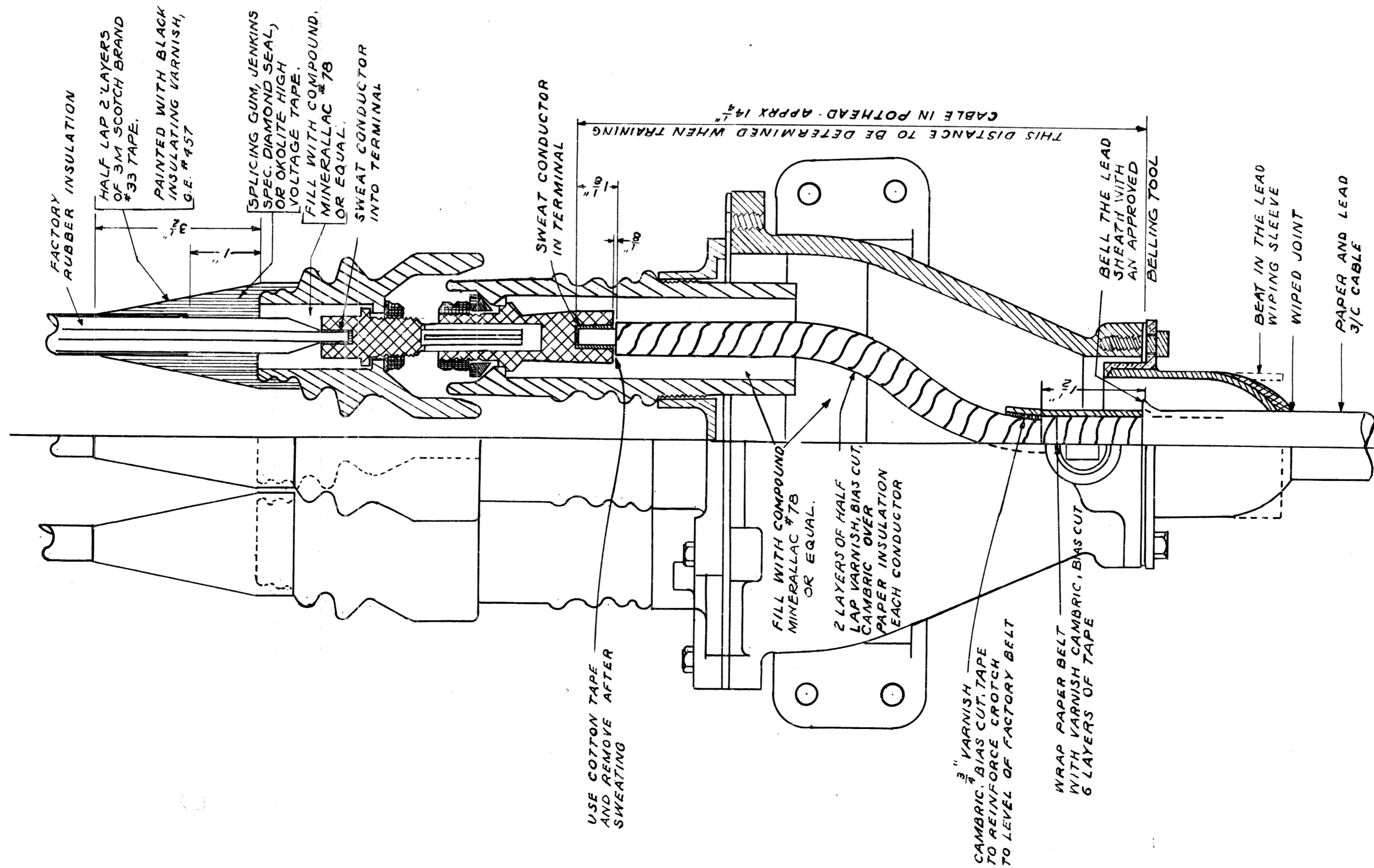
REDRAWN 2-16-59



NOTE:  
FOR COMPLETE DETAILS ON MAKING THIS  
SPLICE SEE SPECIFICATIONS



3 CONDUCTOR 5000 OR 6900 VOLT  
PAPER AND LEAD SPLICE  
NOT TO SCALE



5000 V & 6900 V 3/C DISC POTHEAD  
NOT TO SCALE

NOTES:

- INDOOR POTHEADS:
- CABLE SIZES 7/8 AND SMALLER PARALLEL BUSHING DISCONNECTING TUBE
- CABLE SIZES 1 AND LARGER DIVERGENT BUSHING DISCONNECTING TUBE.
- OUTDOOR POTHEADS:
- USE ALL CABLE SIZES USE DIVERGENT BUSHING DISCONNECTING TUBE.
- SEALING, DISCONNECTING TUBE, SOME OPTIONAL.

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION

PLC DETAILS - 5000-6900 V  
POTHEADS & CABLE SPLICES

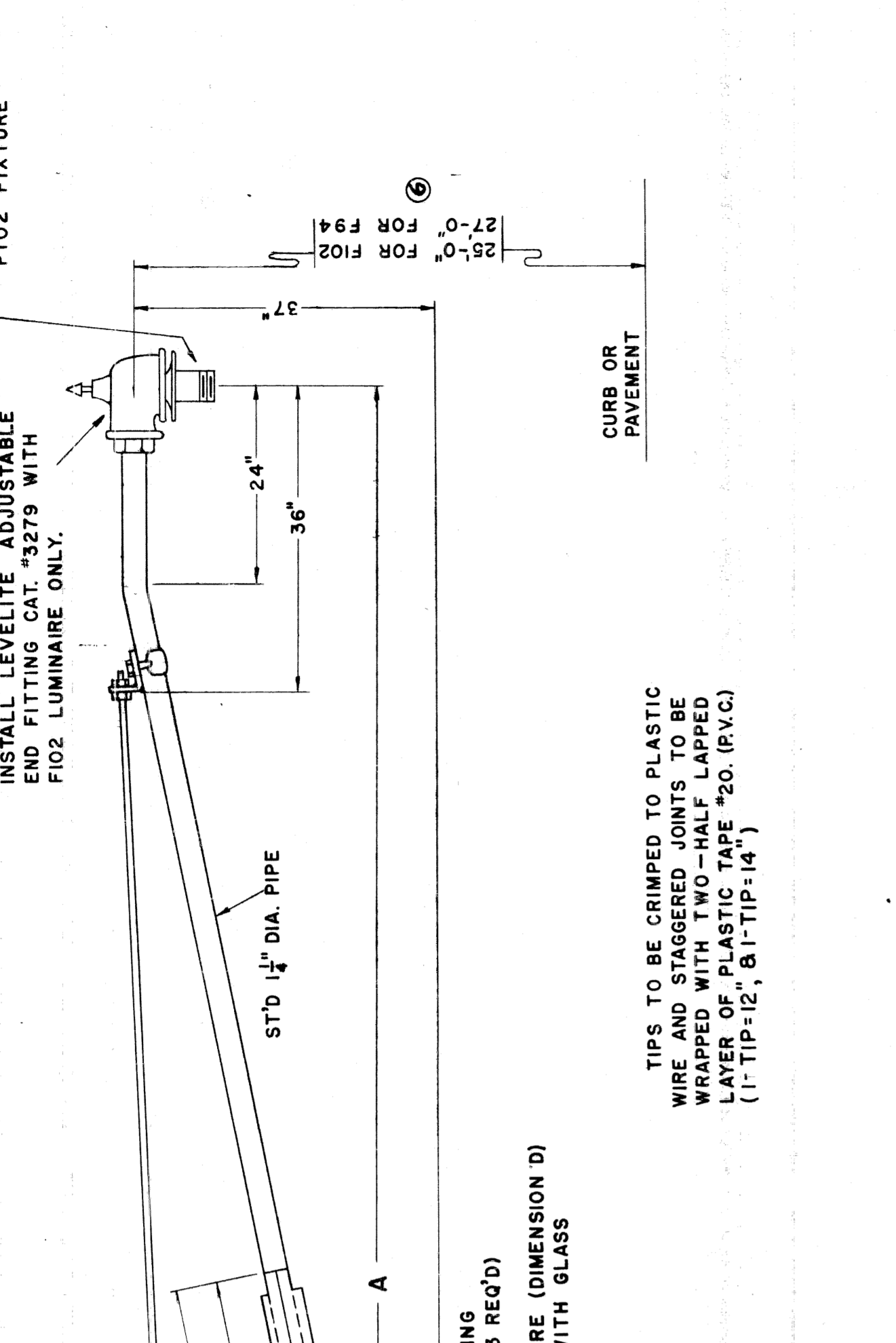
MICHIGAN STATE HIGHWAY DEPARTMENT

DRAWN BY	MGC	FILE NO	56-370
CHECKED BY	JHEIF AG		
DATE	11		
APPROVED BY	J. A. 52		

APPROVED	CHIEF BRIDGE DESIGNER
APPROVED	ENGINEER IN CHARGE
APPROVED	BRIDGE ENGINEER

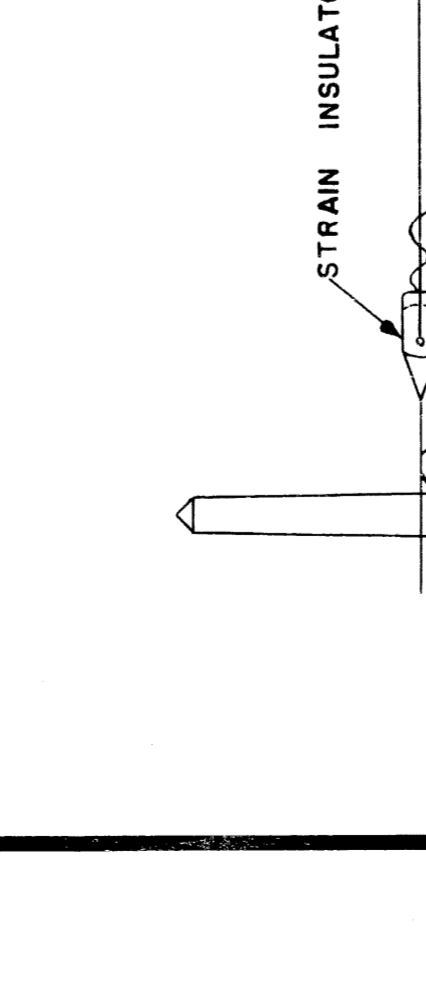
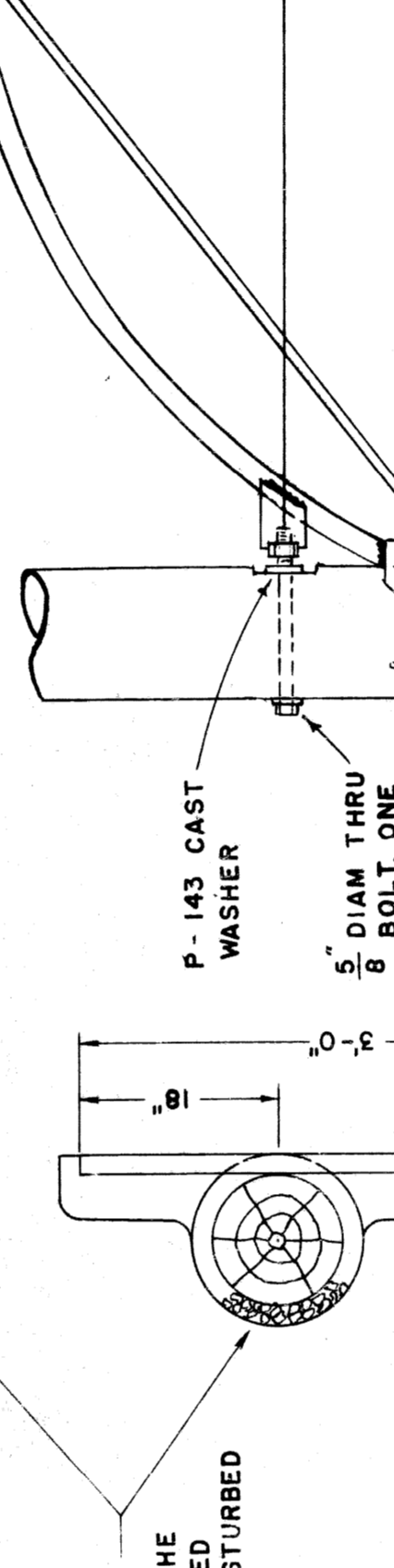
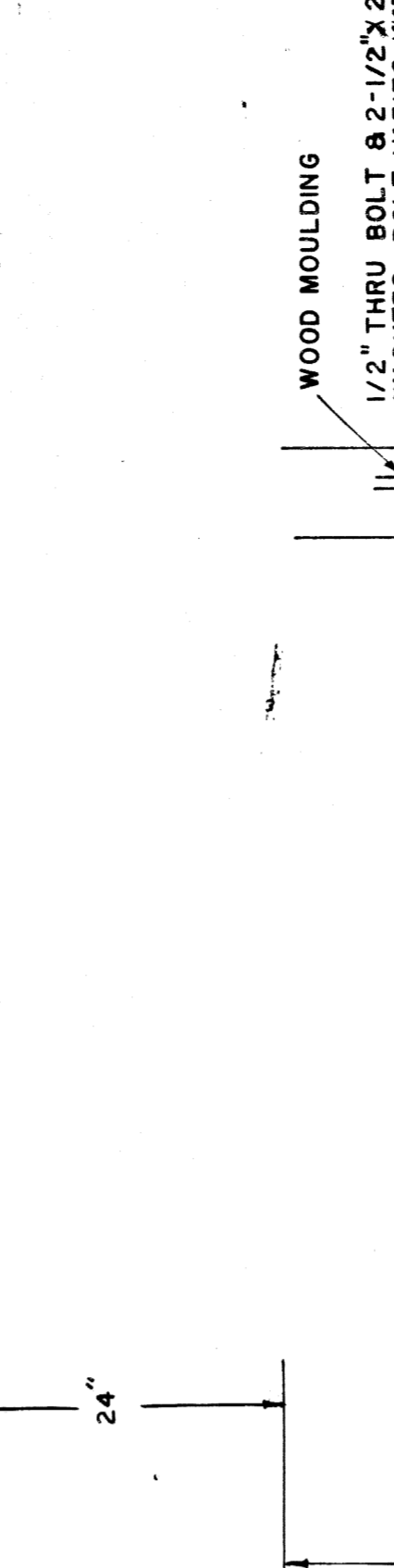
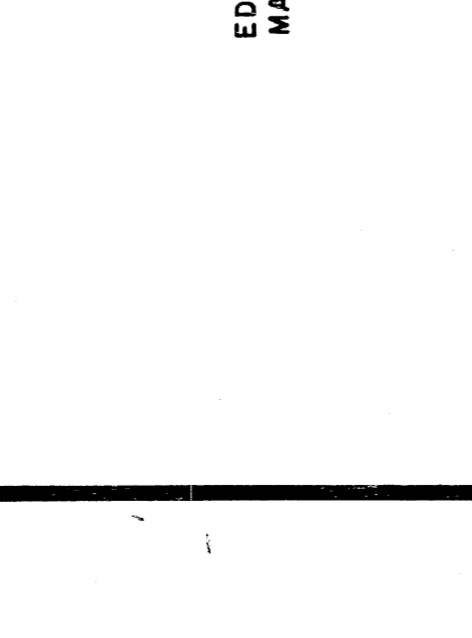
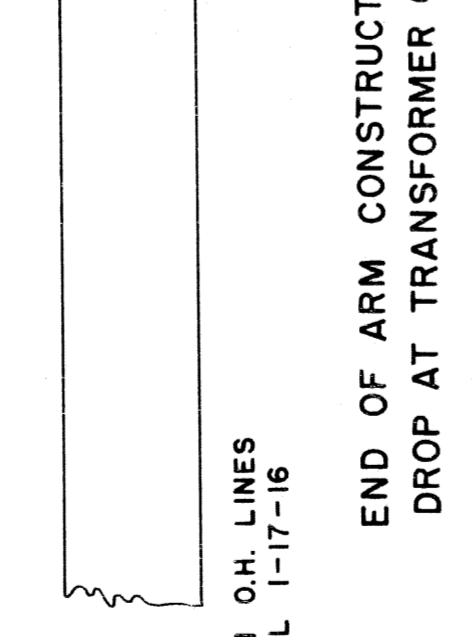
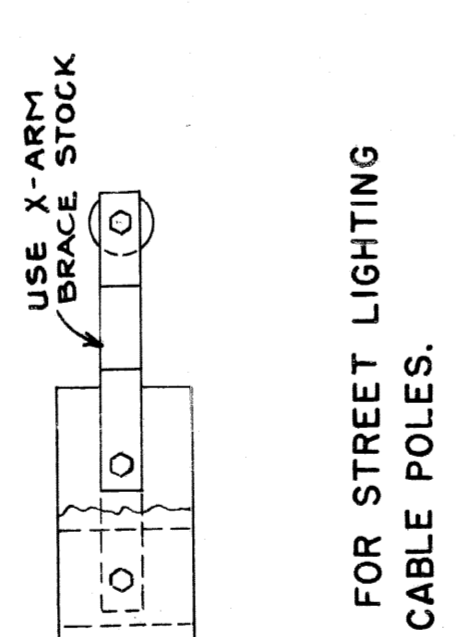
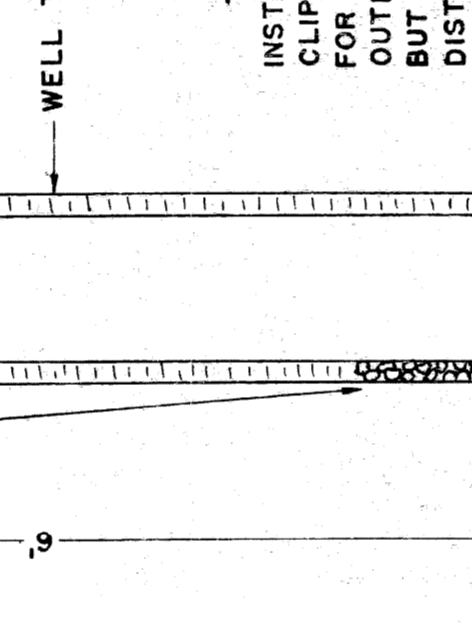
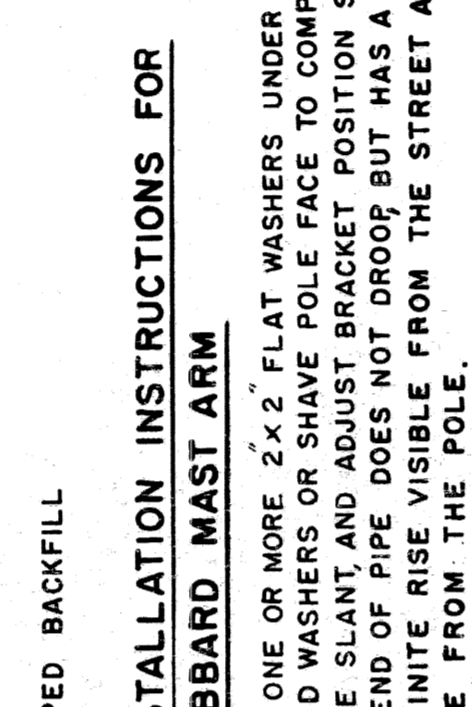
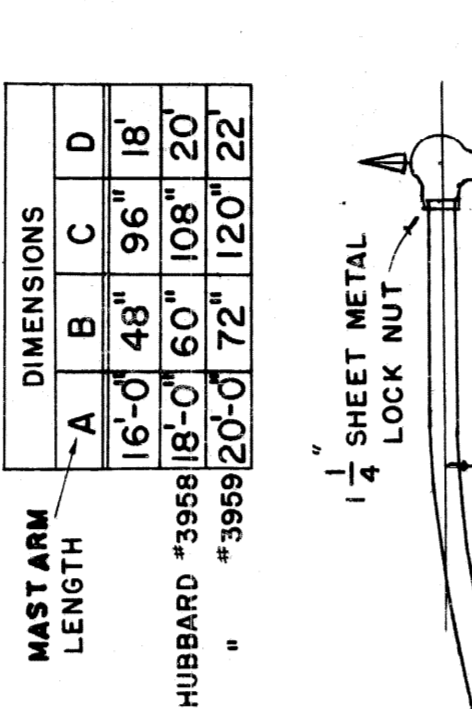
NO	REVISIONS	DATE	BY
1	SPLICING GUM CHANGED	10-7-53	J.C.F.
2	ADDED NOTES FOR POTHEAD	7-29-54	AG
3	ADDED MINERALCUT TAPE	12-9-58	MGC
4	ADDED COTTON TAPE	3-5-59	MGC
5	CHANGED 2308V TO 3900V	3-5-59	MGC

82111-C 4



SECTION A-A

DIMENSIONS				
MAST ARM LENGTH	A	B	C	D
HUBBARD #3958	18'-0"	48"	96"	18'
#3959	20'-0"	60"	108"	20'
	72"	120"	22'	



**INSTALLATION INSTRUCTIONS FOR HUBBARD MAST ARM**  
 INSTALL ONE OR MORE 2"x2" FLAT WASHERS UNDER BRACKET CLIP. ADD WASHERS OR SHAPE POLE FACE TO COMPENSATE FOR POLE SLANT AND ADJUST BRACKET POSITION SO THAT OUTER END OF PIPE DOES NOT DROOP BUT HAS A SMALL BUT DEFINITE RISE VISIBLE FROM THE STREET AT 200' DISTANCE FROM THE POLE.

**INSTALLATION INSTRUCTIONS FOR UPSWEEP STREET LIGHTING BRACKET PIPE & BRACE TYPE**  
 INSTALL NO. 8 STRANDED PLASTIC INSULATED TWIN FROM COIL STRAIGHT THRU TO LAMP LEADS.

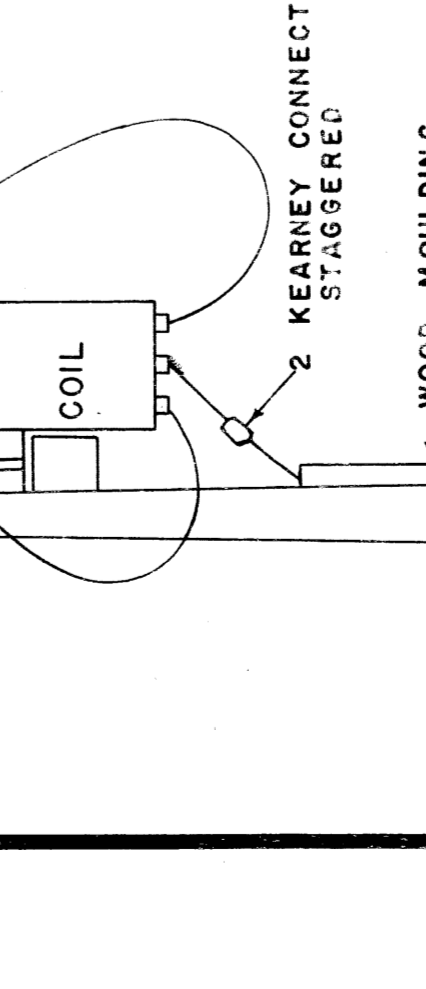
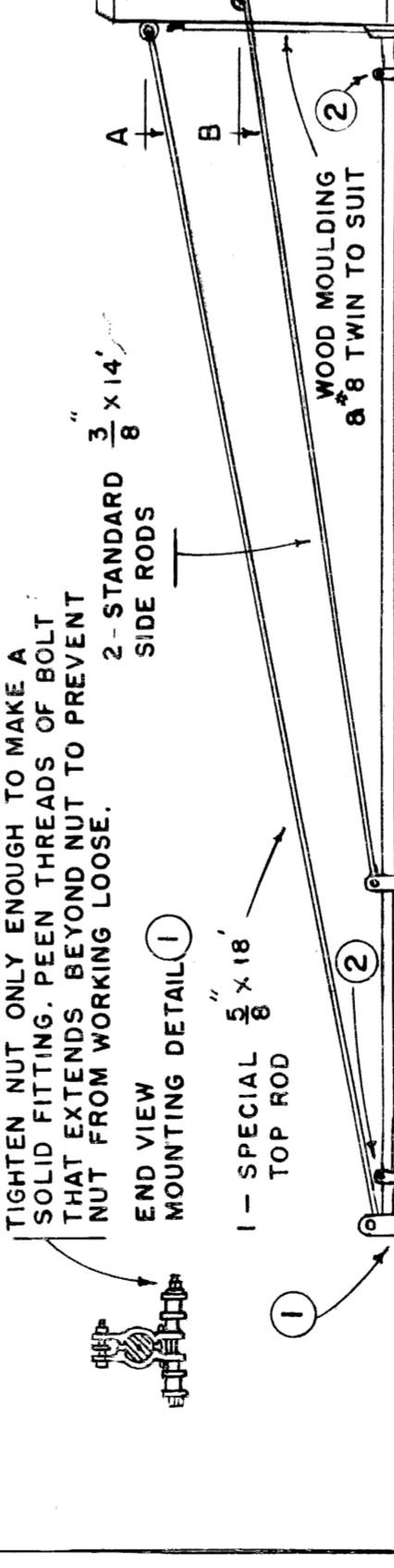
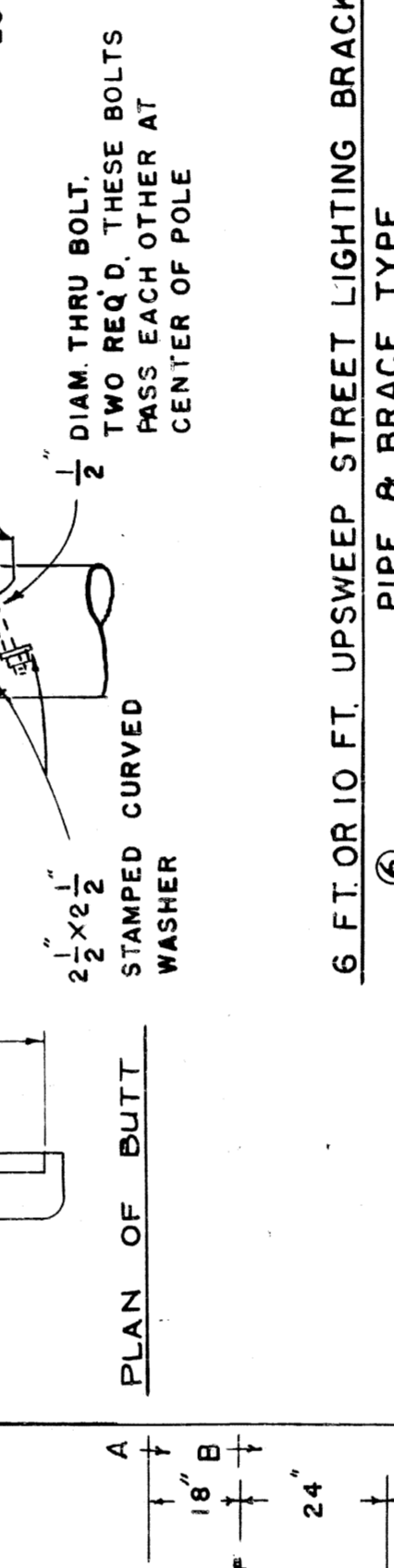
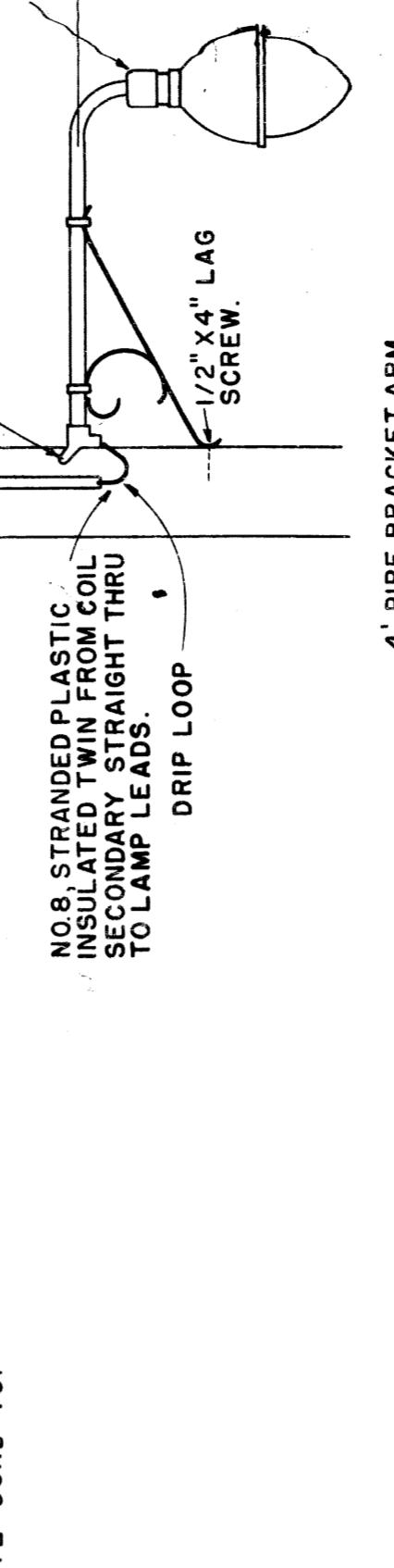
**INSTALLATION INSTRUCTIONS FOR SPLIT LOG HEEL**  
 SPLIT LOG HEEL SHALL BE FIRMLY WEDGED BETWEEN POLE & SOLID UNDISTURBED EARTH.

**INSTALLATION INSTRUCTIONS FOR FIELD STONES**  
 USE FIELD STONES, PEICES OF BROKEN SIDEWALK OR GRAVEL FOR TOE SUPPORT. THE TOE SHALL BE FIRMLY TAMPED BETWEEN POLE & SOLID UNDISTURBED EARTH.

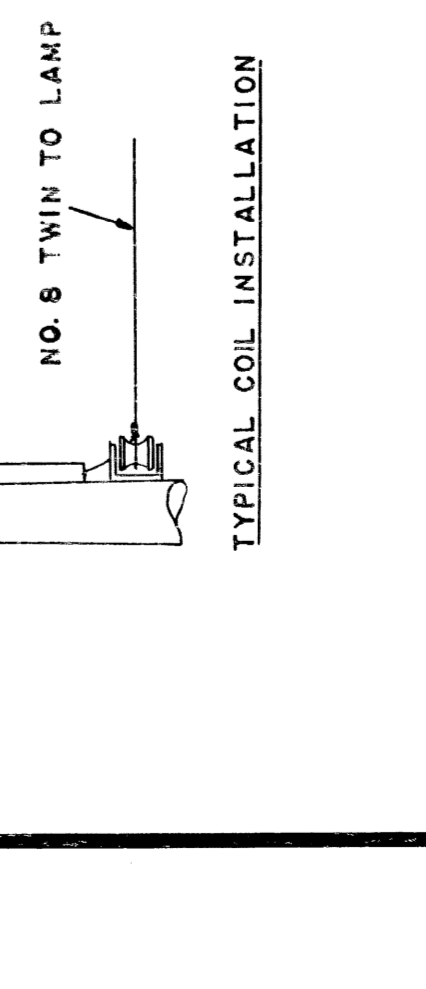
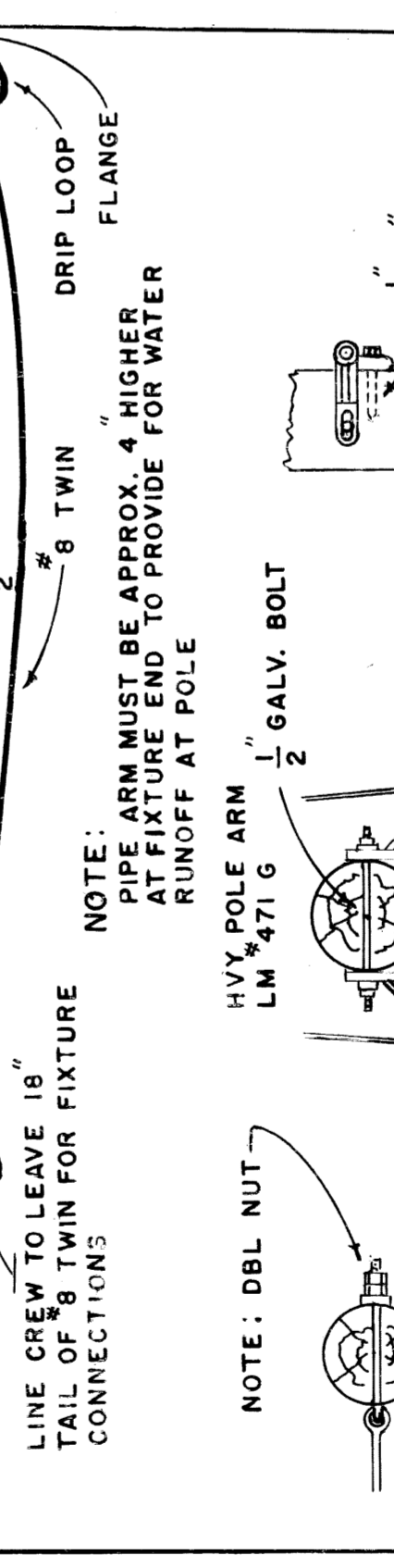
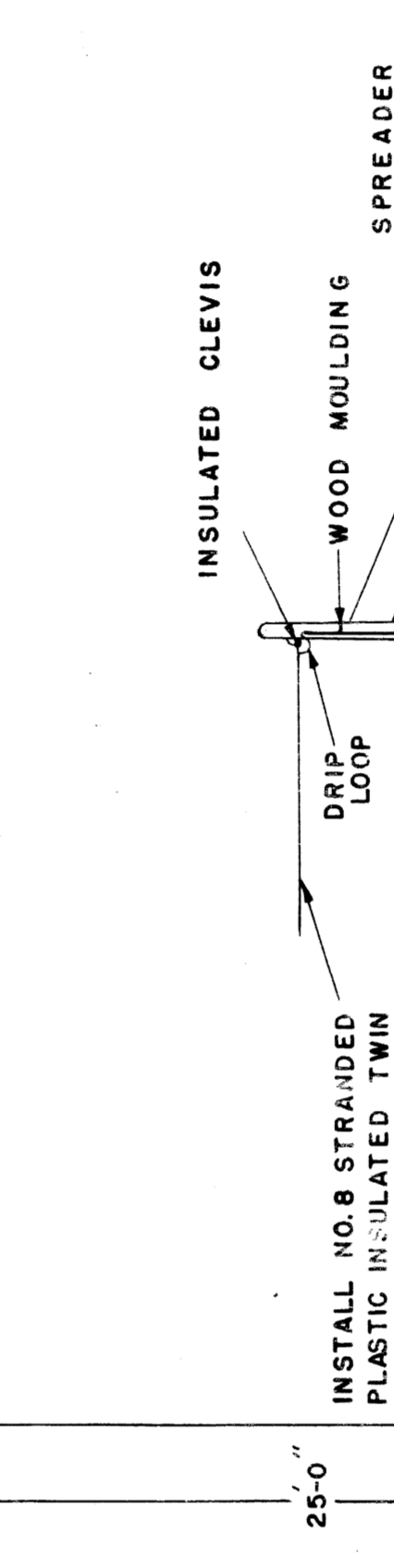
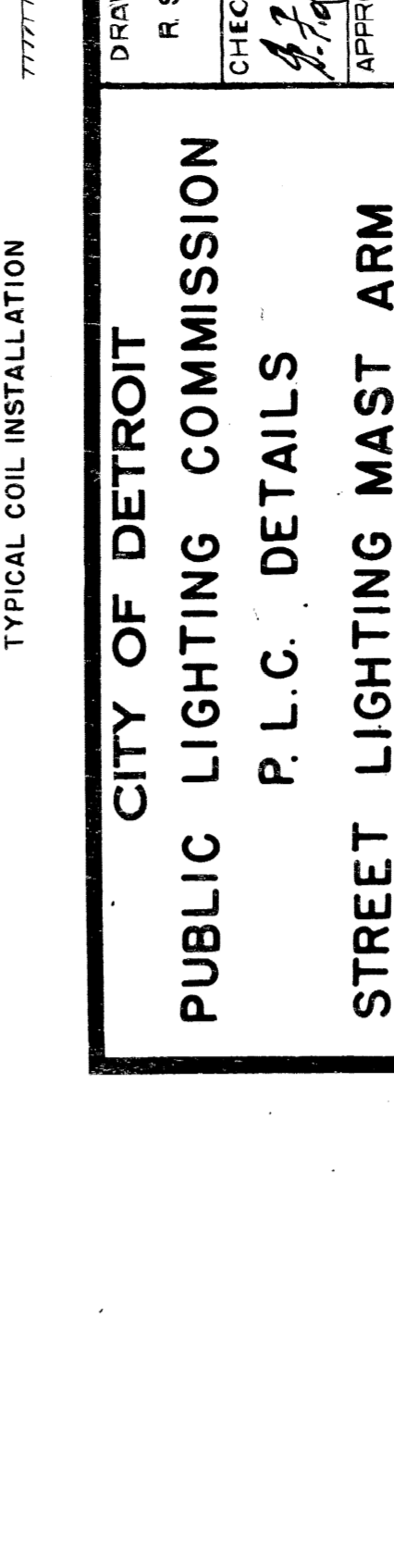
**INSTALLATION INSTRUCTIONS FOR STRAIN INSULATOR**  
 STRAIN INSULATOR

**INSTALLATION INSTRUCTIONS FOR TYPICAL COIL**  
 TYPICAL COIL INSTALLATION

EDISON O.H. LINES MANUAL 1-17-16



EDISON O.H. LINES MANUAL 1-17-16

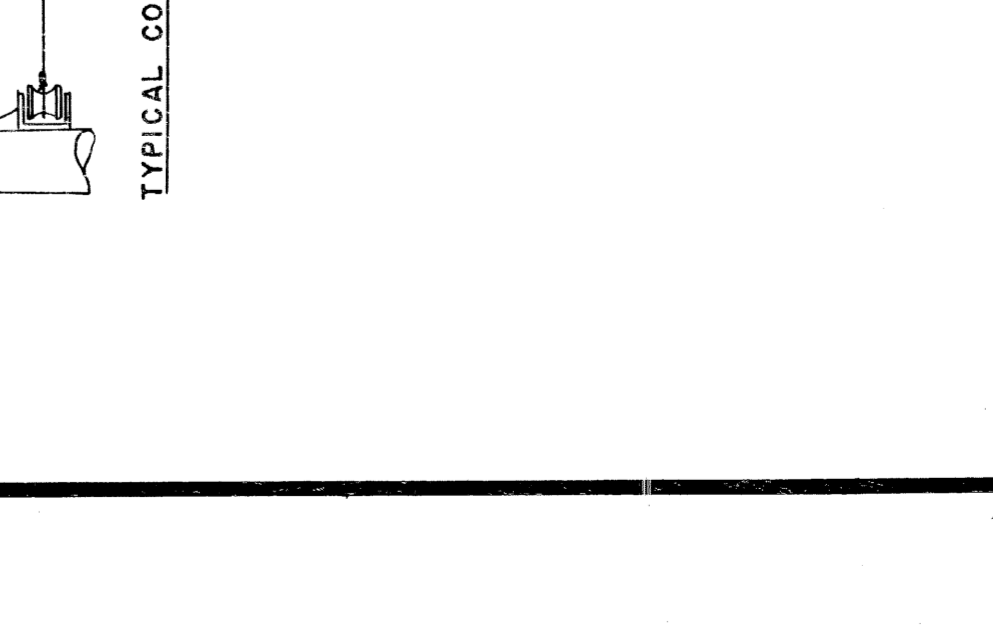
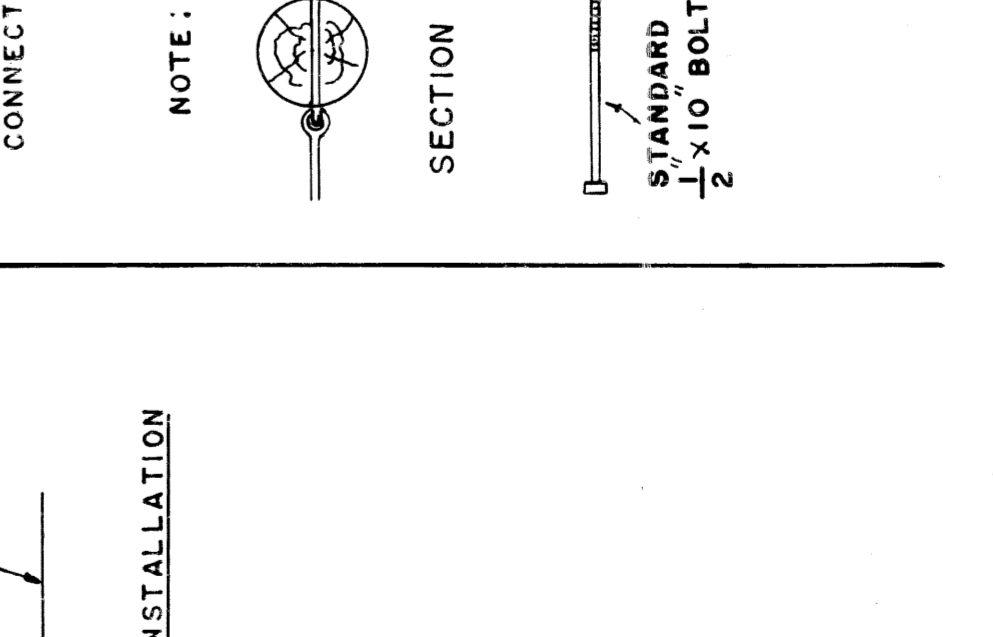
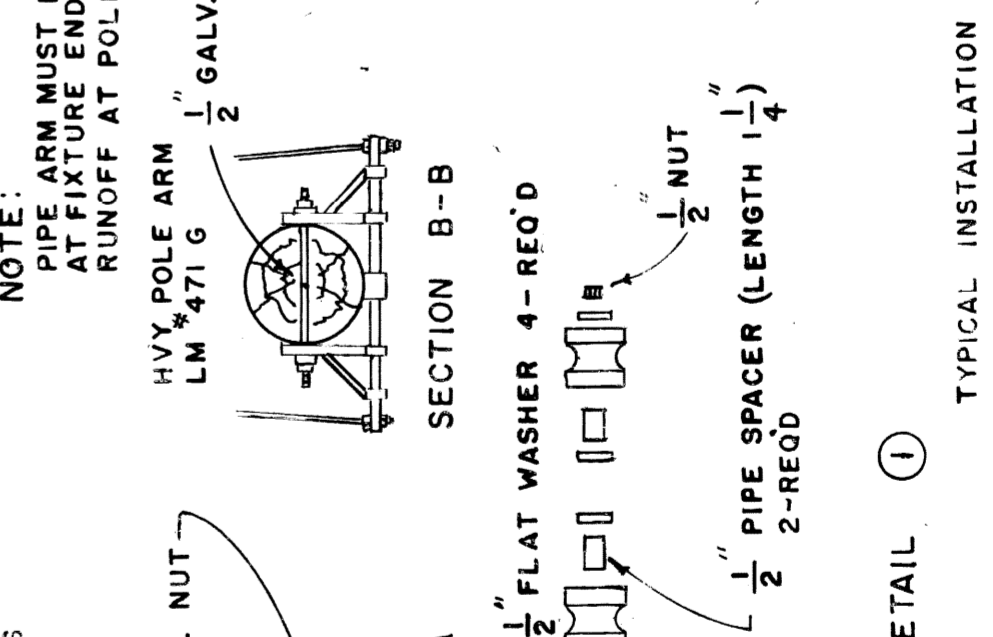
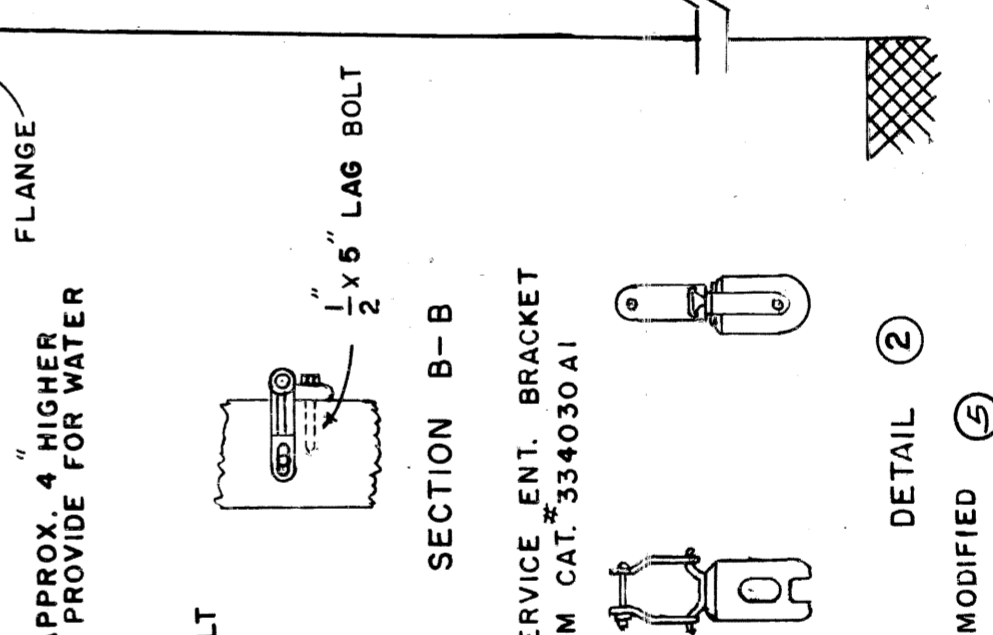
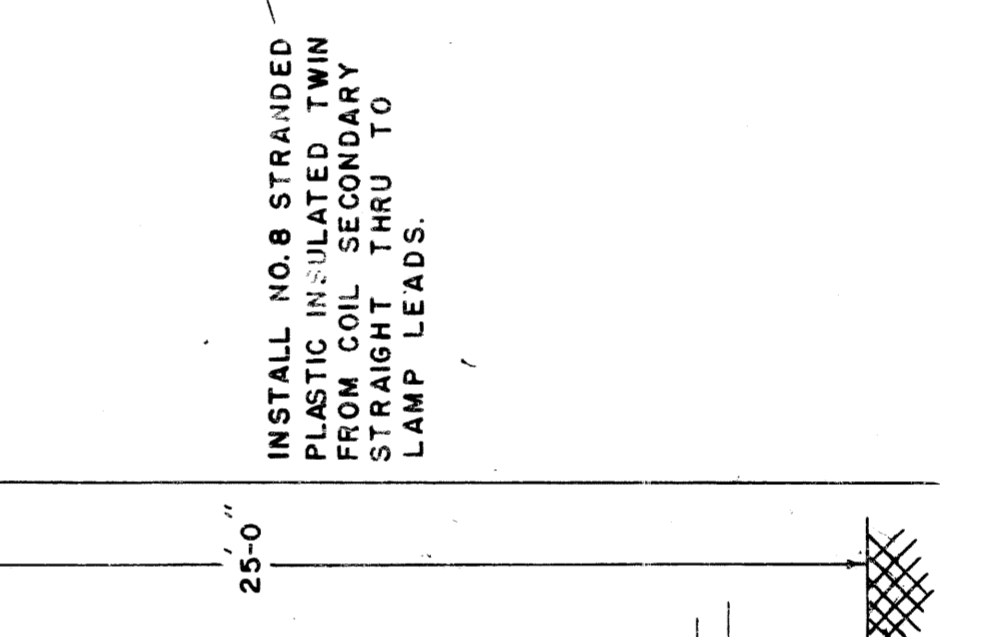
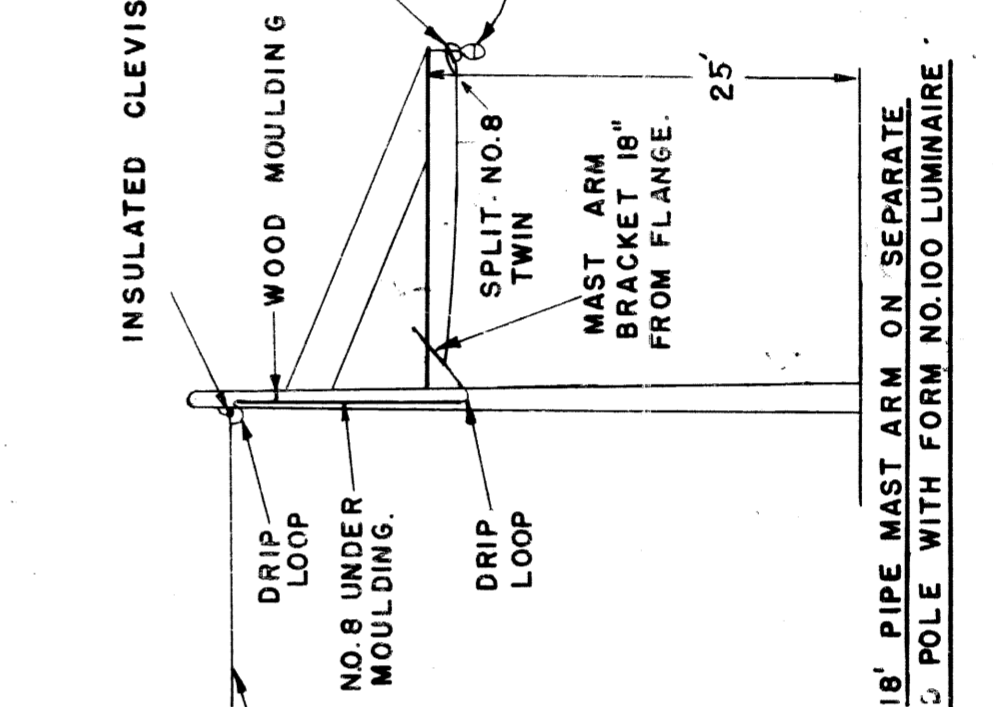


EDISON O.H. LINES MANUAL 1-17-16

CITY OF DETROIT  
 PUBLIC LIGHTING COMMISSION  
 P. L. C. DETAILS  
 STREET LIGHTING MAST ARM  
 MICHIGAN STATE HIGHWAY DEPARTMENT

DRAWN BY: FILE NO. 95-31  
 R. S. C.  
 CHECKED BY: SHEET NO. 14  
 APPROVED BY: DATE 7-7-07

NO.	DESCRIPTION	DATE	BY
1	REMOVED 18' DIA. ON LINE	7-8-35	MJC
2	POLE WITH F100 UNIT ADDED	7-8-35	MJC
3	INST. OF F100 UNIT ADDED	7-8-35	MJC
4	REMOVE 18' DIA. ON LINE	7-8-35	MJC
5	POLE WITH F100 UNIT ADDED	7-8-35	MJC
6	CHANGE IN HEIGHT	7-8-35	MJC
7	HUBBARD MAST ARM	7-8-35	MJC
8	REMOVE 18' DIA. ON LINE	7-8-35	MJC
9	REMOVE 18' DIA. ON LINE	7-8-35	MJC
10	REMOVE 18' DIA. ON LINE	7-8-35	MJC



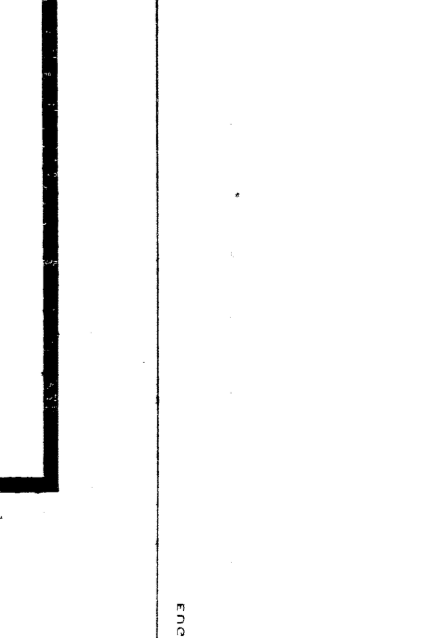
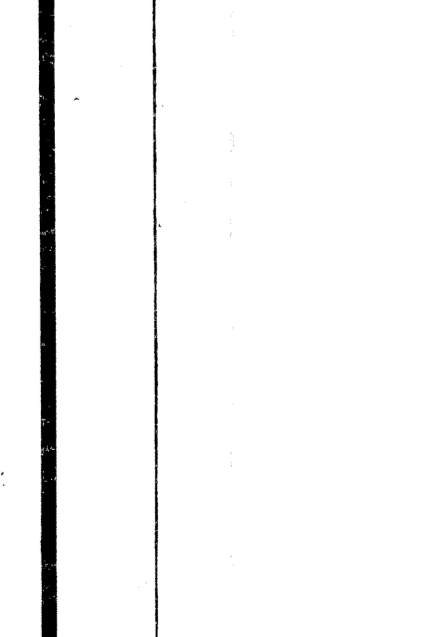
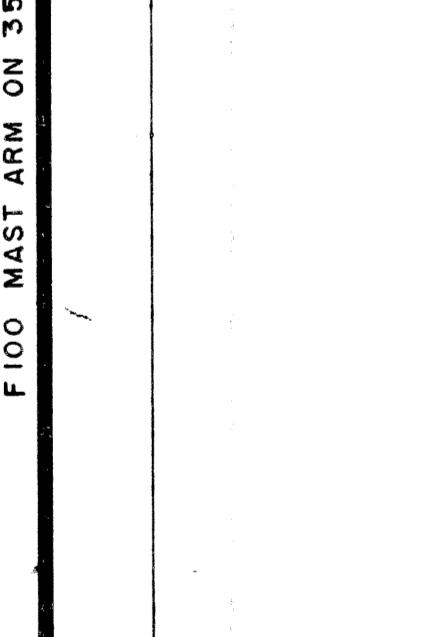
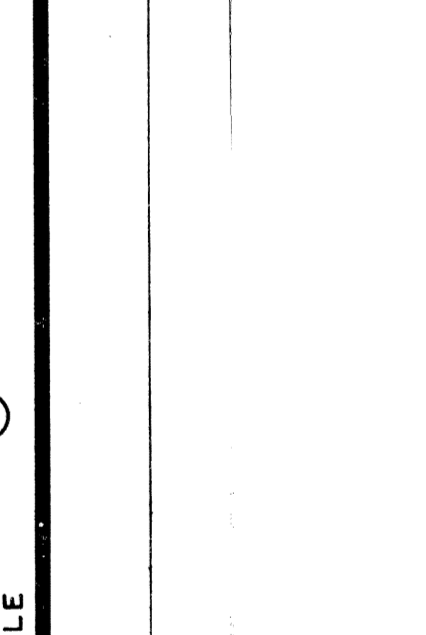
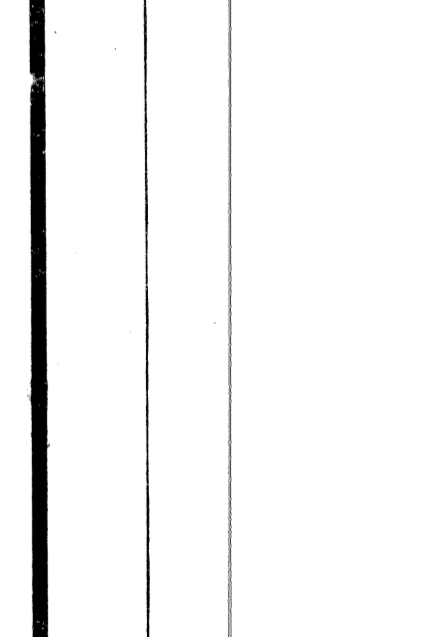
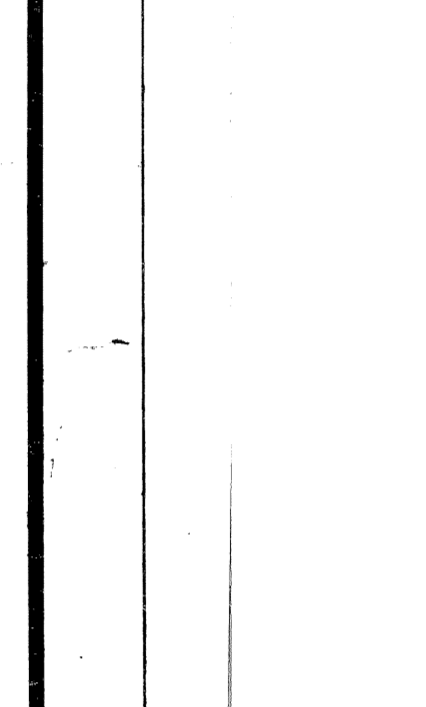
EDISON O.H. LINES MANUAL 1-17-16

82111-C14

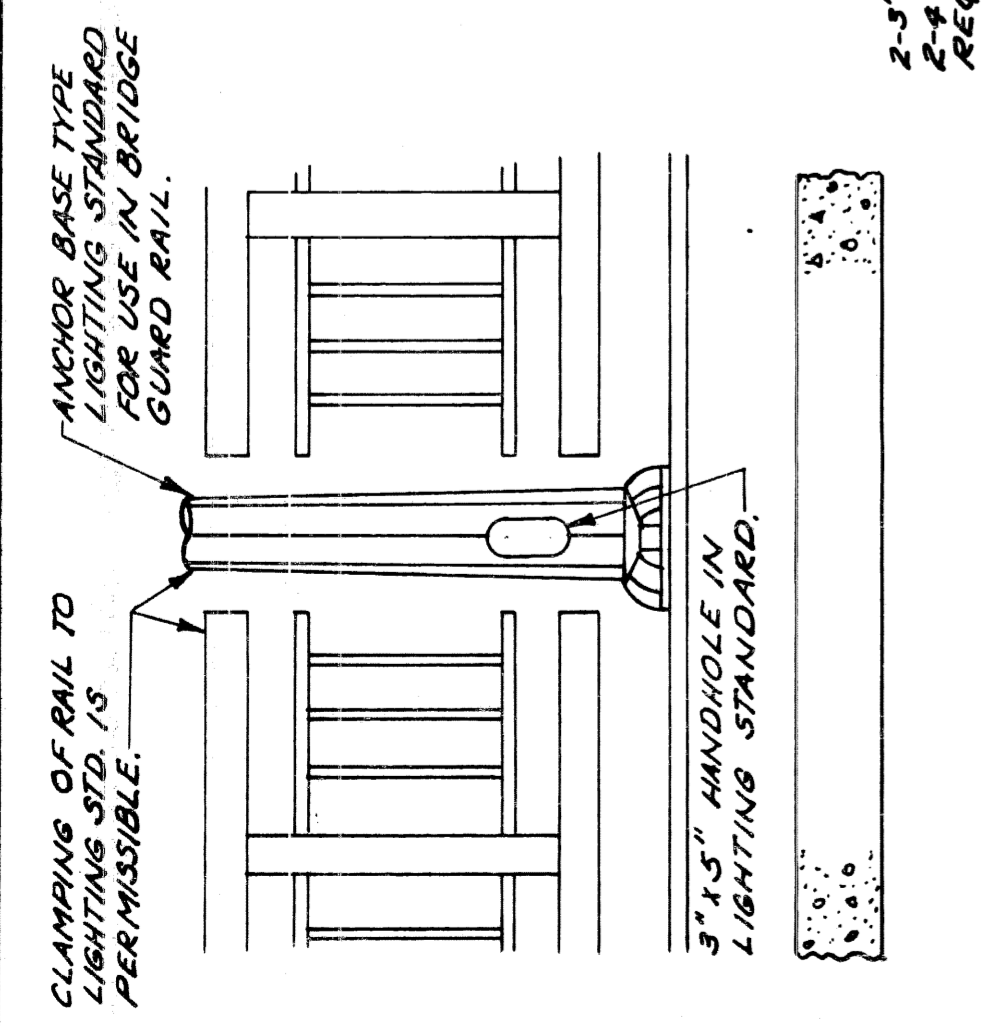
APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

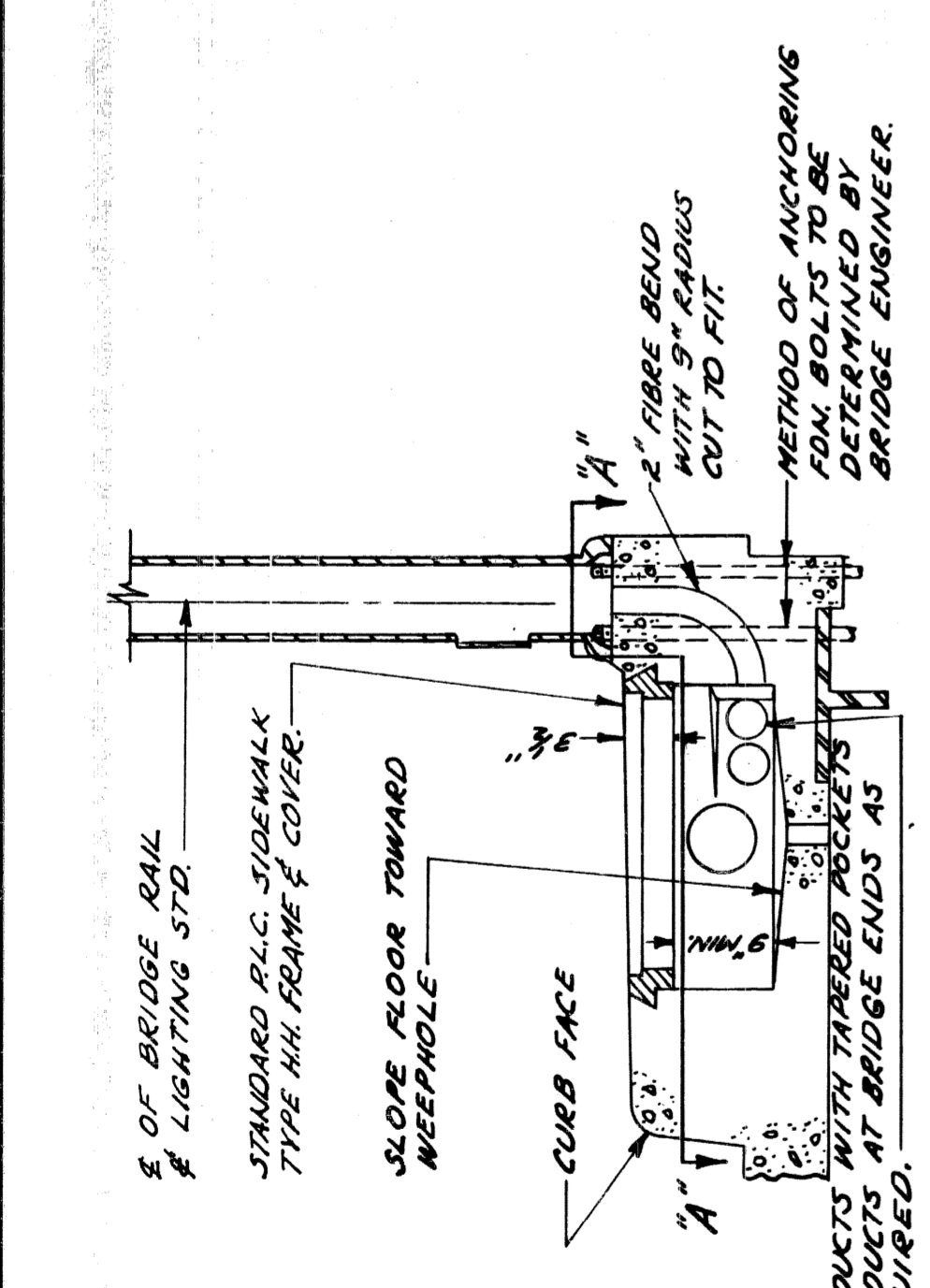
NO.	DESCRIPTION	DATE	BY
1	REMOVED 18' DIA. ON LINE	7-8-35	MJC
2	POLE WITH F100 UNIT ADDED	7-8-35	MJC
3	INST. OF F100 UNIT ADDED	7-8-35	MJC
4	REMOVE 18' DIA. ON LINE	7-8-35	MJC
5	POLE WITH F100 UNIT ADDED	7-8-35	MJC
6	CHANGE IN HEIGHT	7-8-35	MJC
7	HUBBARD MAST ARM	7-8-35	MJC
8	REMOVE 18' DIA. ON LINE	7-8-35	MJC
9	REMOVE 18' DIA. ON LINE	7-8-35	MJC
10	REMOVE 18' DIA. ON LINE	7-8-35	MJC



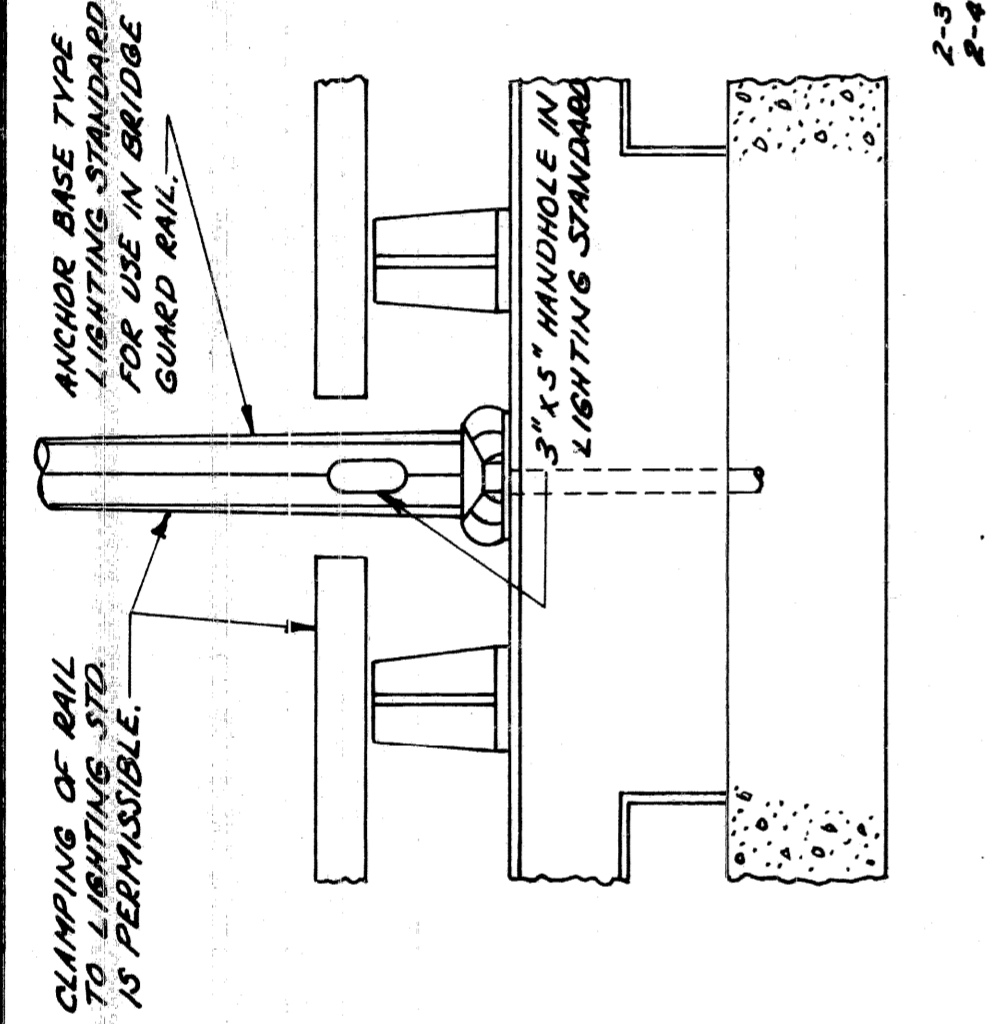
EDISON O.H. LINES MANUAL 1-17-16



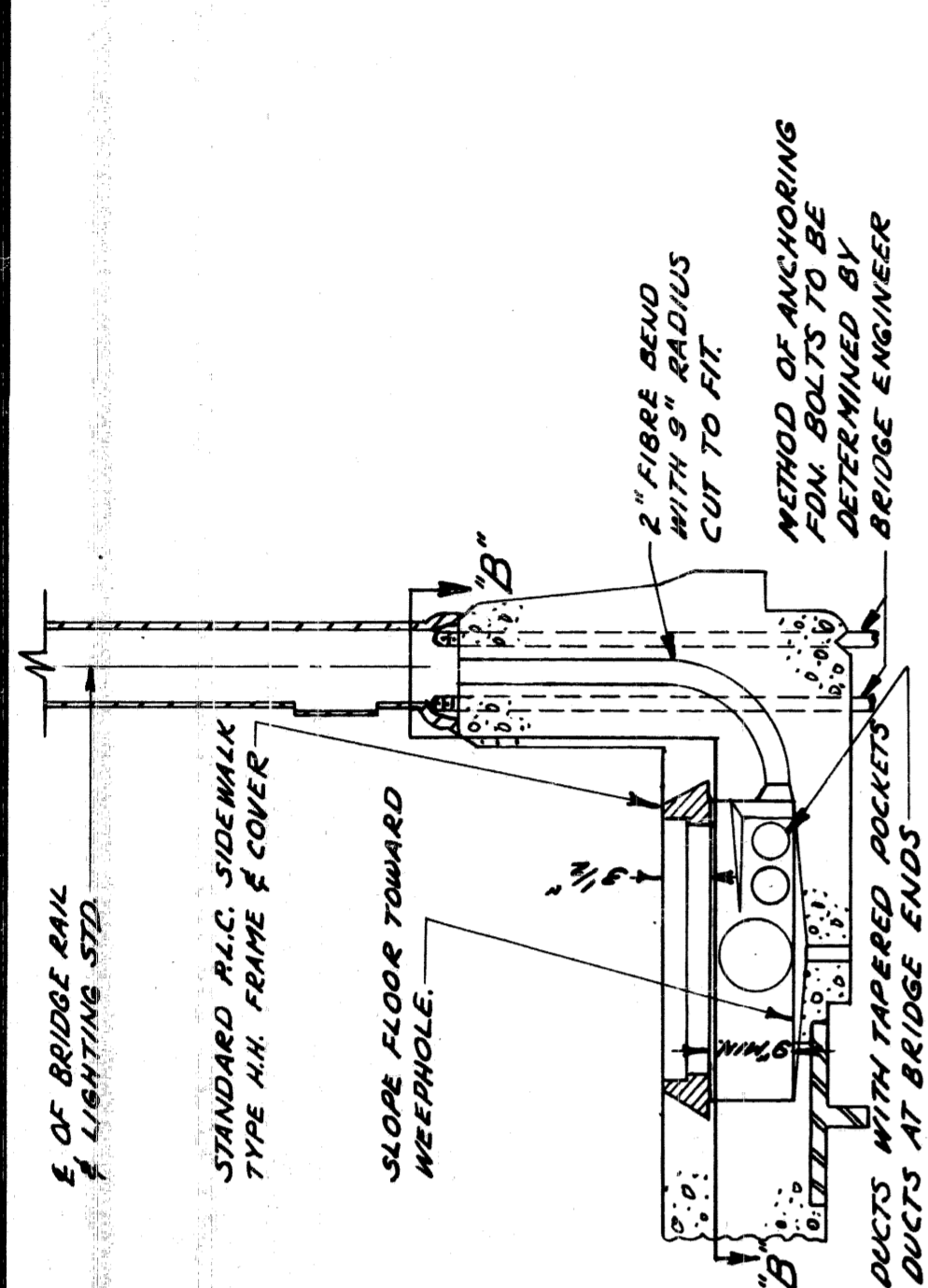
TYPICAL ELEVATION



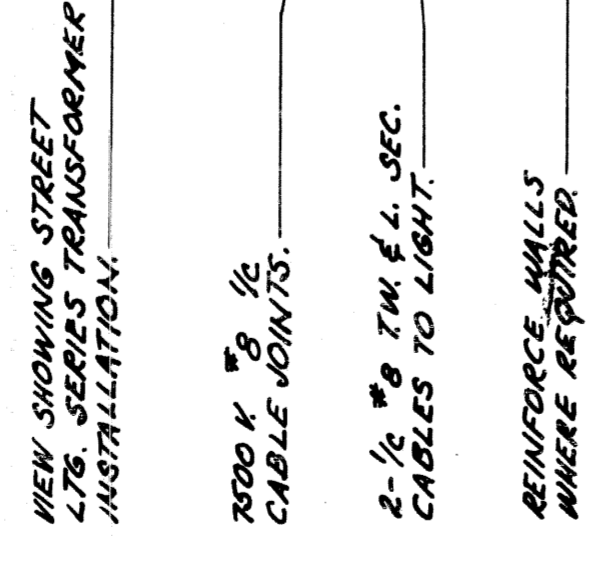
TYPICAL SECTION



TYPICAL ELEVATION

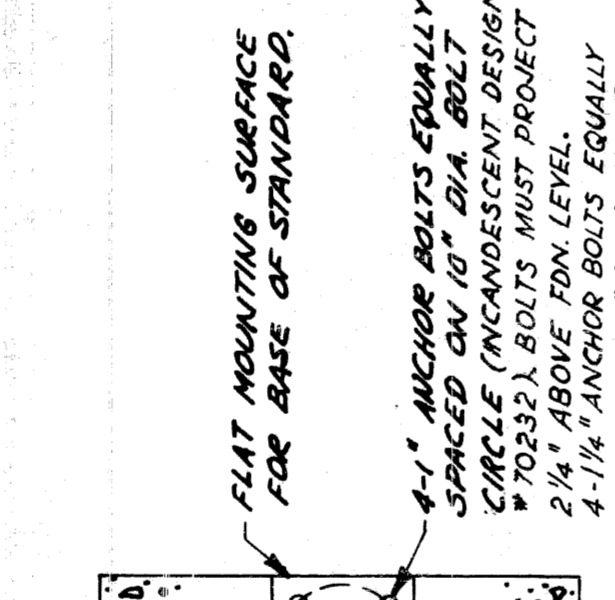


TYPICAL SECTION



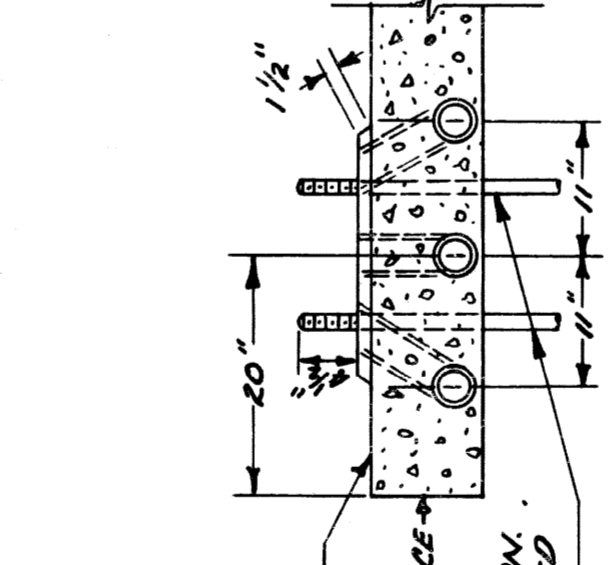
SECTION A-A

BRIDGE RAIL LIGHTING STANDARD INSTALLATION (WITH BUMPER RAIL)

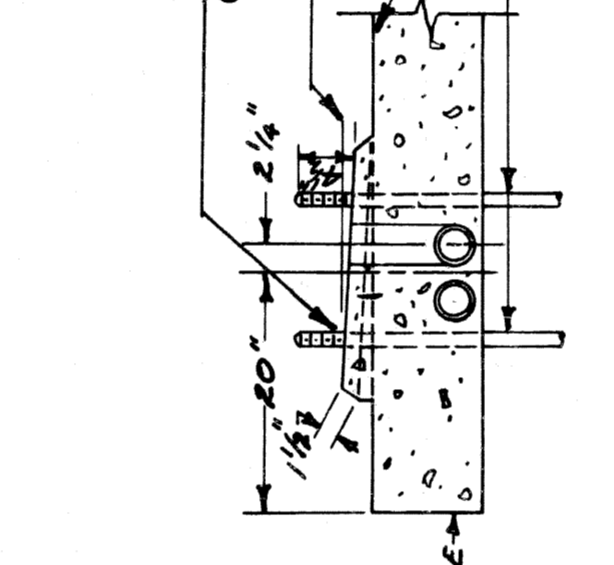


SECTION B-B

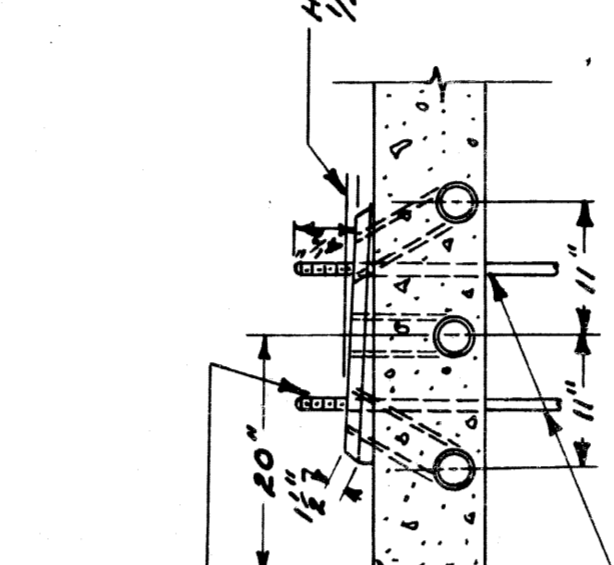
BRIDGE RAIL LIGHTING STANDARD INSTALLATION (WITH BUMPER RAIL)



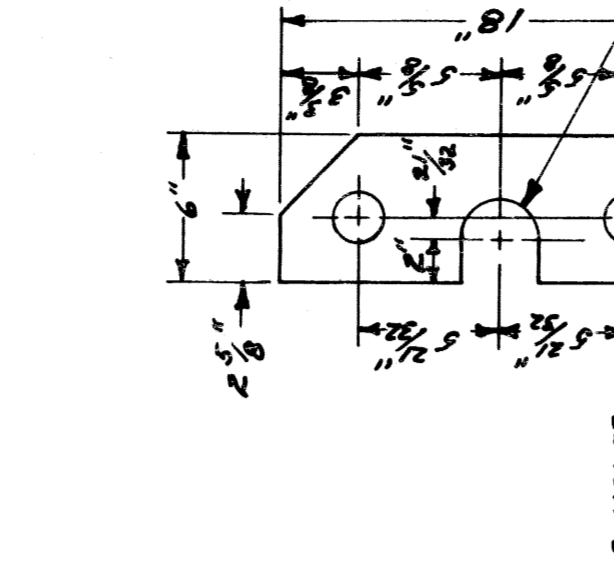
SECTION C-C



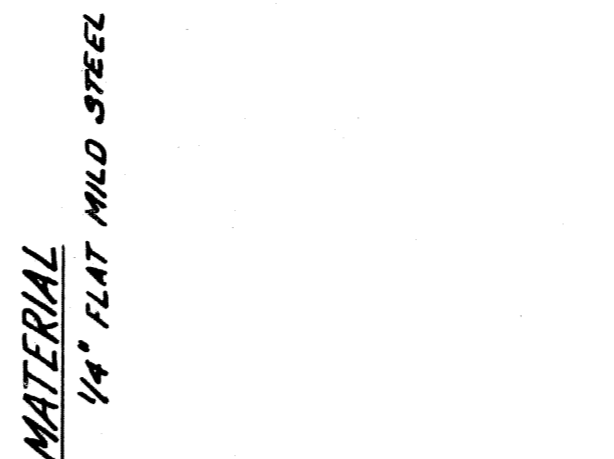
SECTION E-E



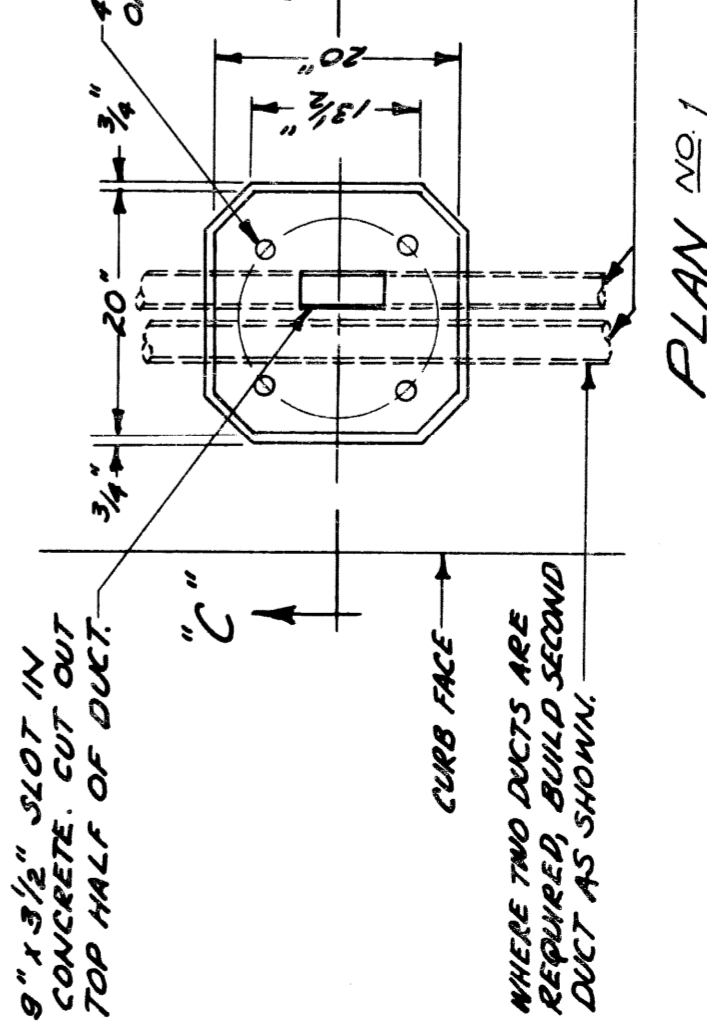
SECTION F-F



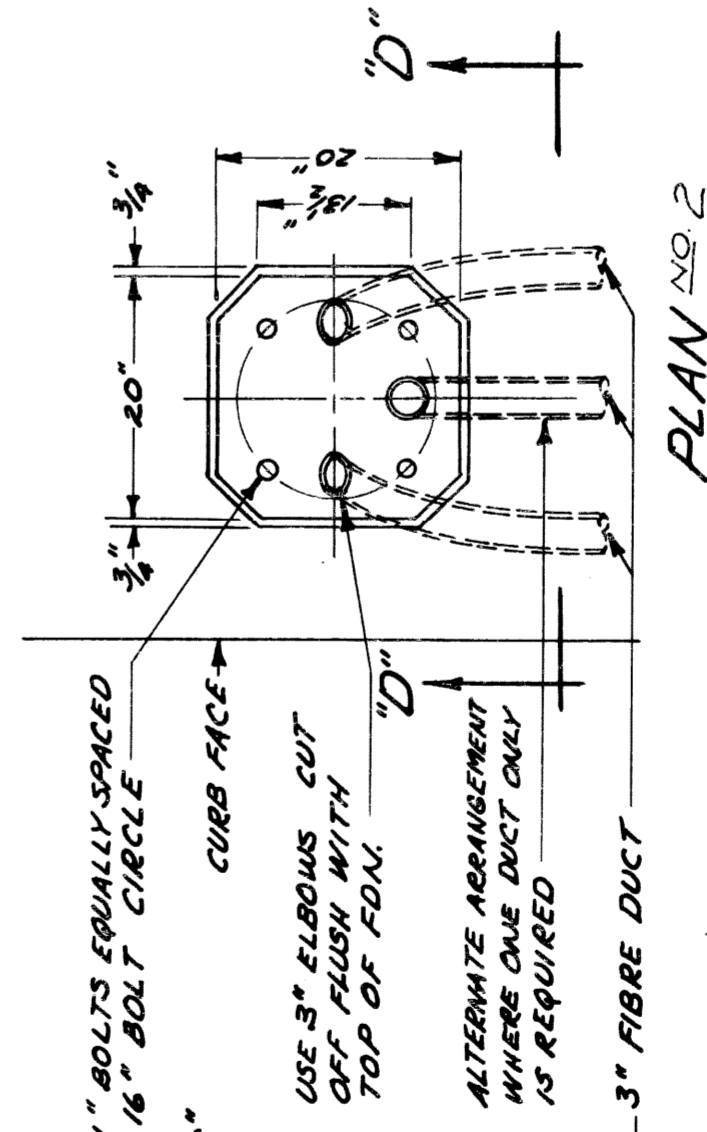
SECTION D-D



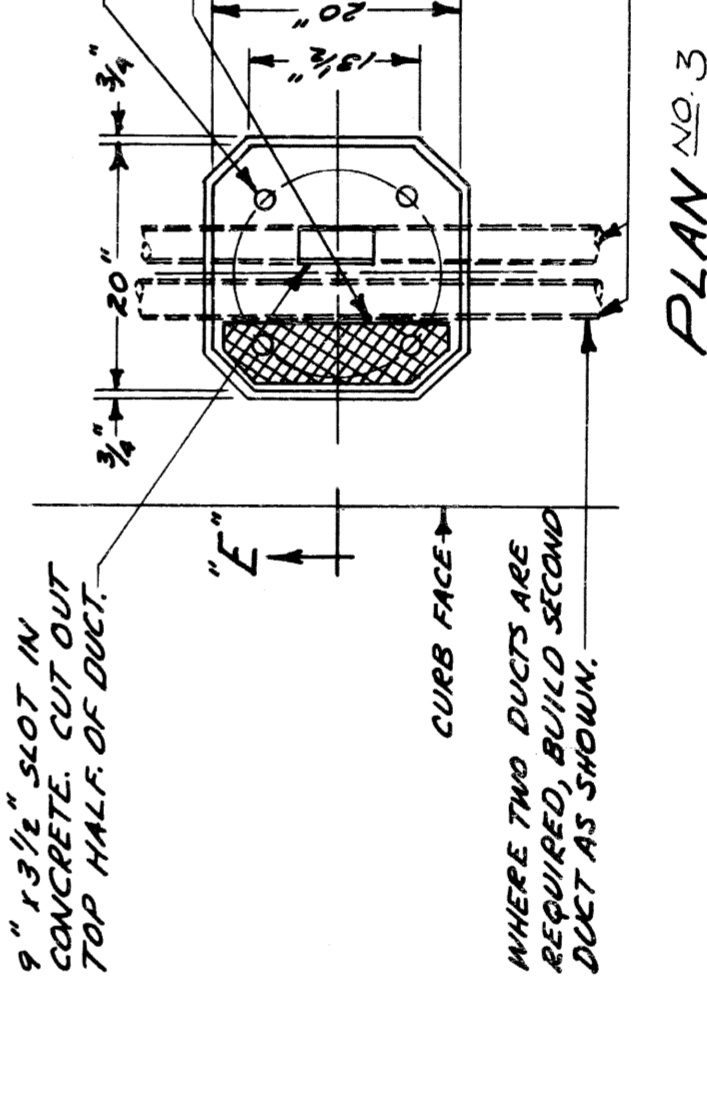
SECTION G-G



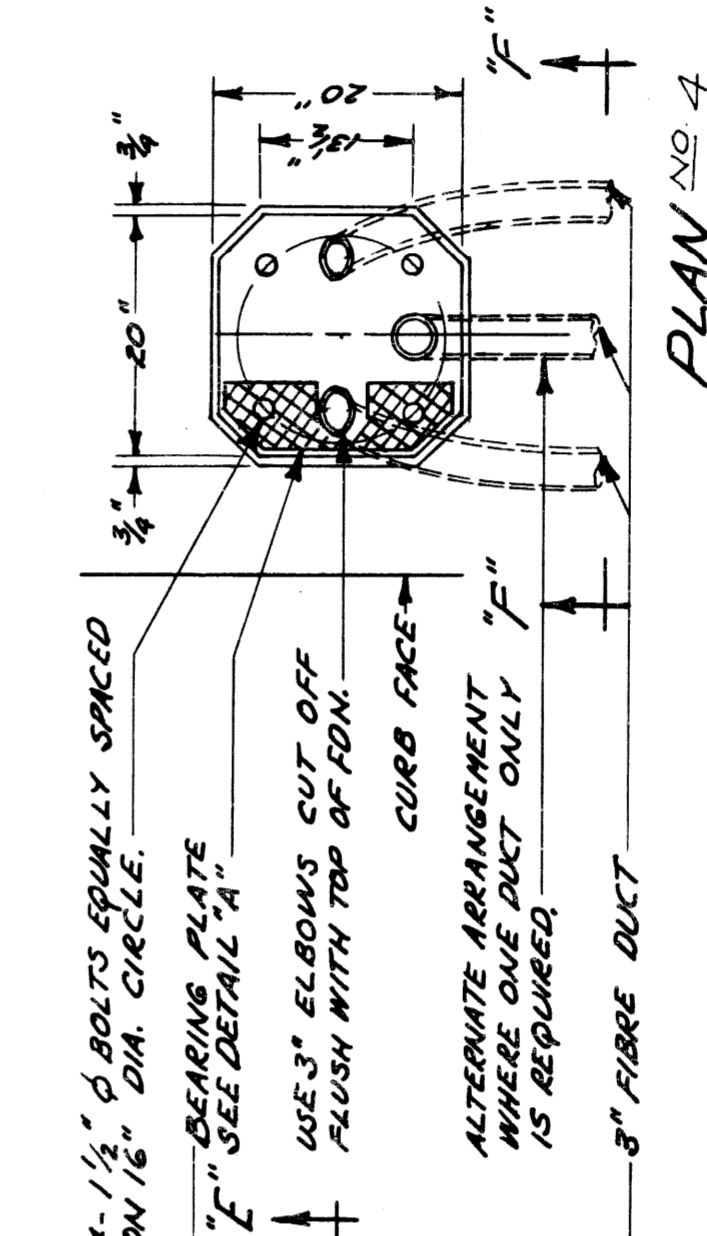
PLAN NO. 1



PLAN NO. 2



PLAN NO. 3

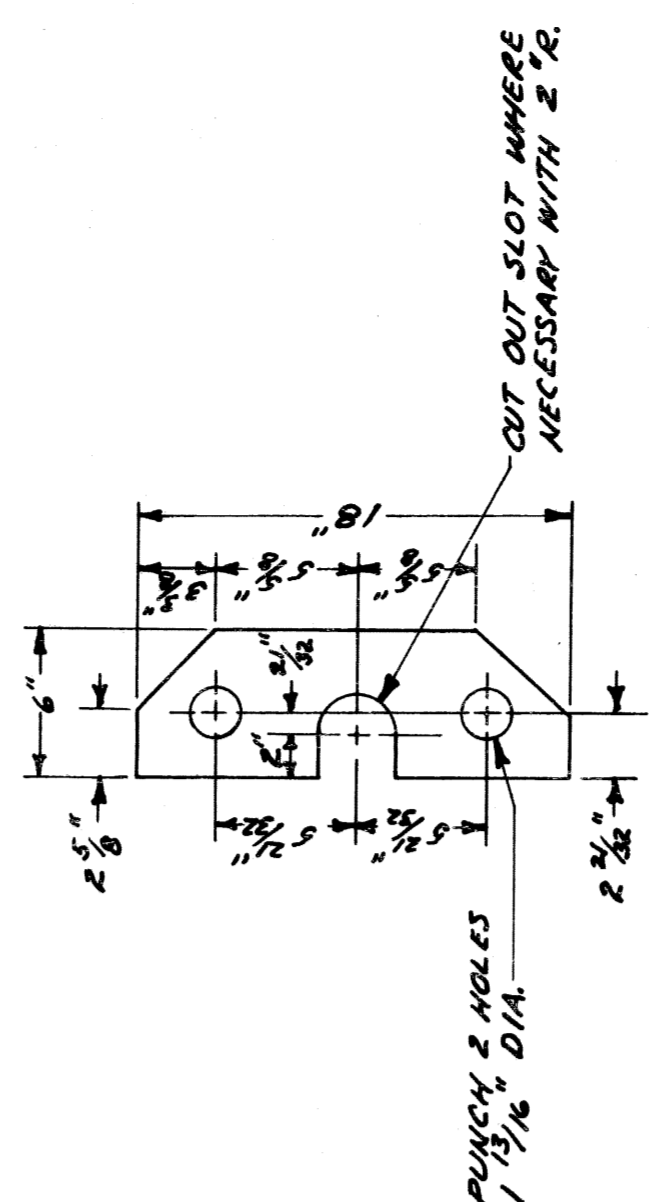


PLAN NO. 4

LAMP POST FOUNDATION ON BRIDGE FOR 18" SQ. BASE LIGHTING STANDARD

LAMP POST FOUNDATION ON BRIDGE FOR 18" SQ. BASE D.S.R. COMBINATION STANDARD

MATERIAL  
1/4" FLAT MILD STEEL



BEARING PLATE DETAIL A

FILE NO.	55-3 A
DRAWN BY	D J N
CHECKED BY	15
APPROVED BY	DATE
	5-6-55

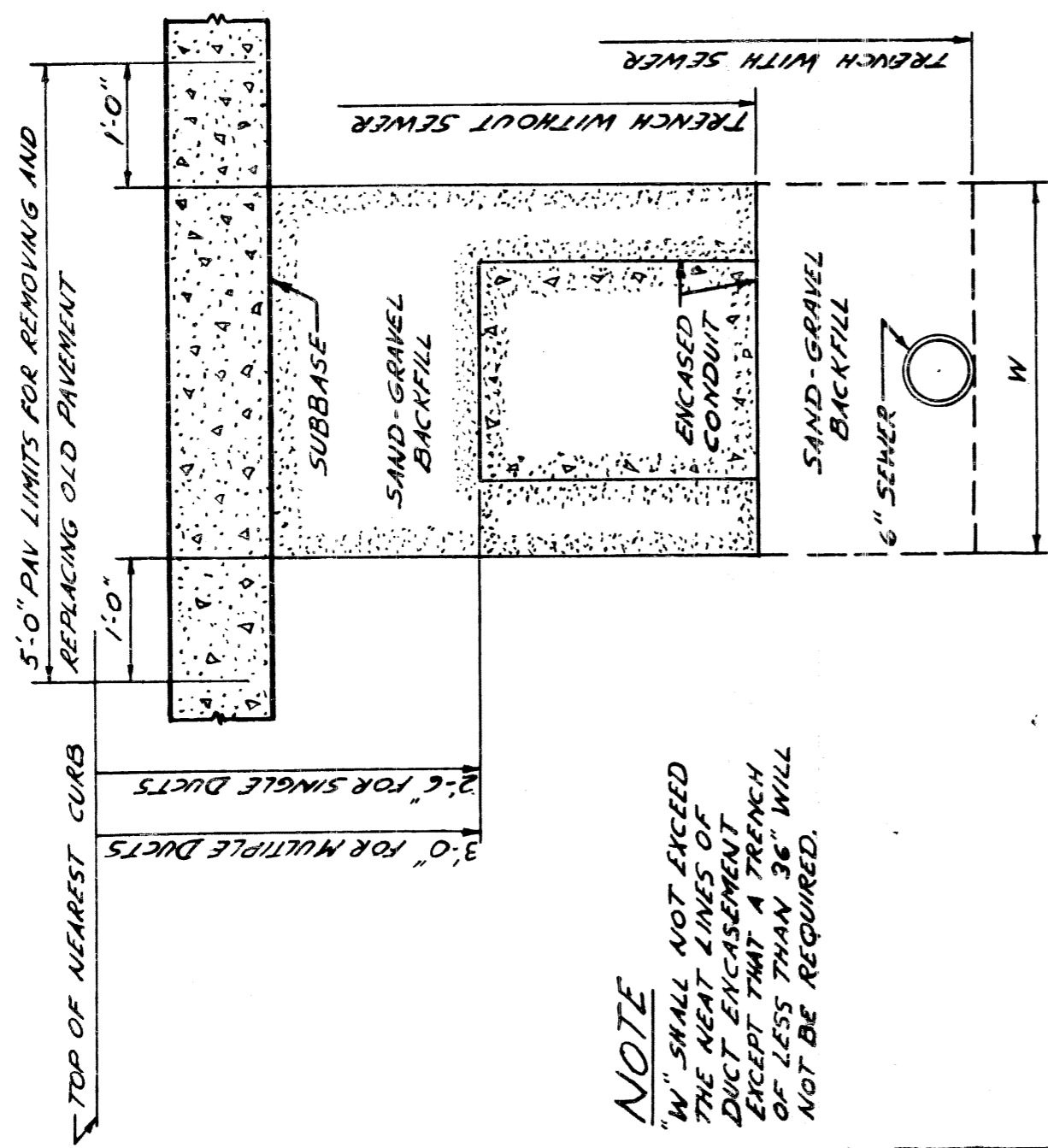
CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P. L. C. DETAILS - MISCELLANEOUS

MICHIGAN STATE HIGHWAY DEPARTMENT

REVISIONS	DATE	BY
1	9-24-57	M.K.C.
2		
3		
4		
5		
6		
7		
8		
9		
10		

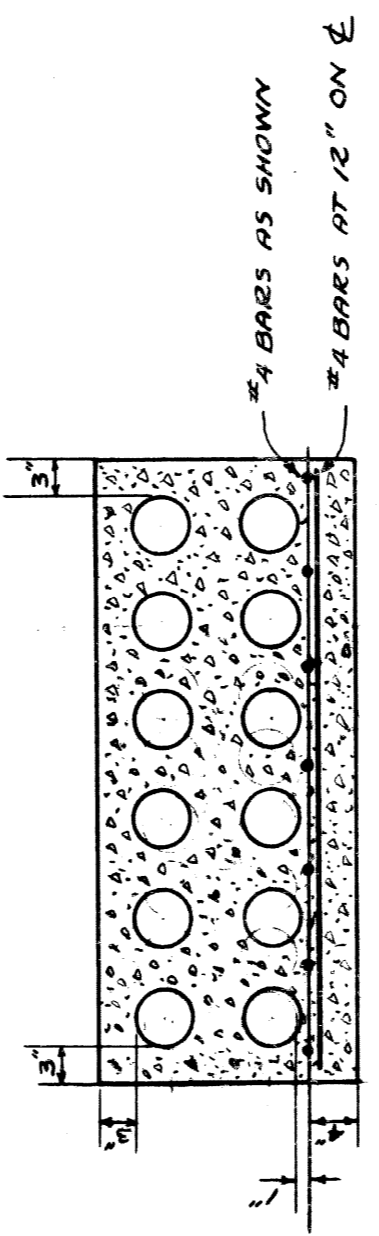
APPROVED  
CHIEF BRIDGE DRAFTSMAN  
APPROVED  
ENGINEER OF BRIDGE DESIGN  
APPROVED  
BRIDGE ENGINEER

82111-C14

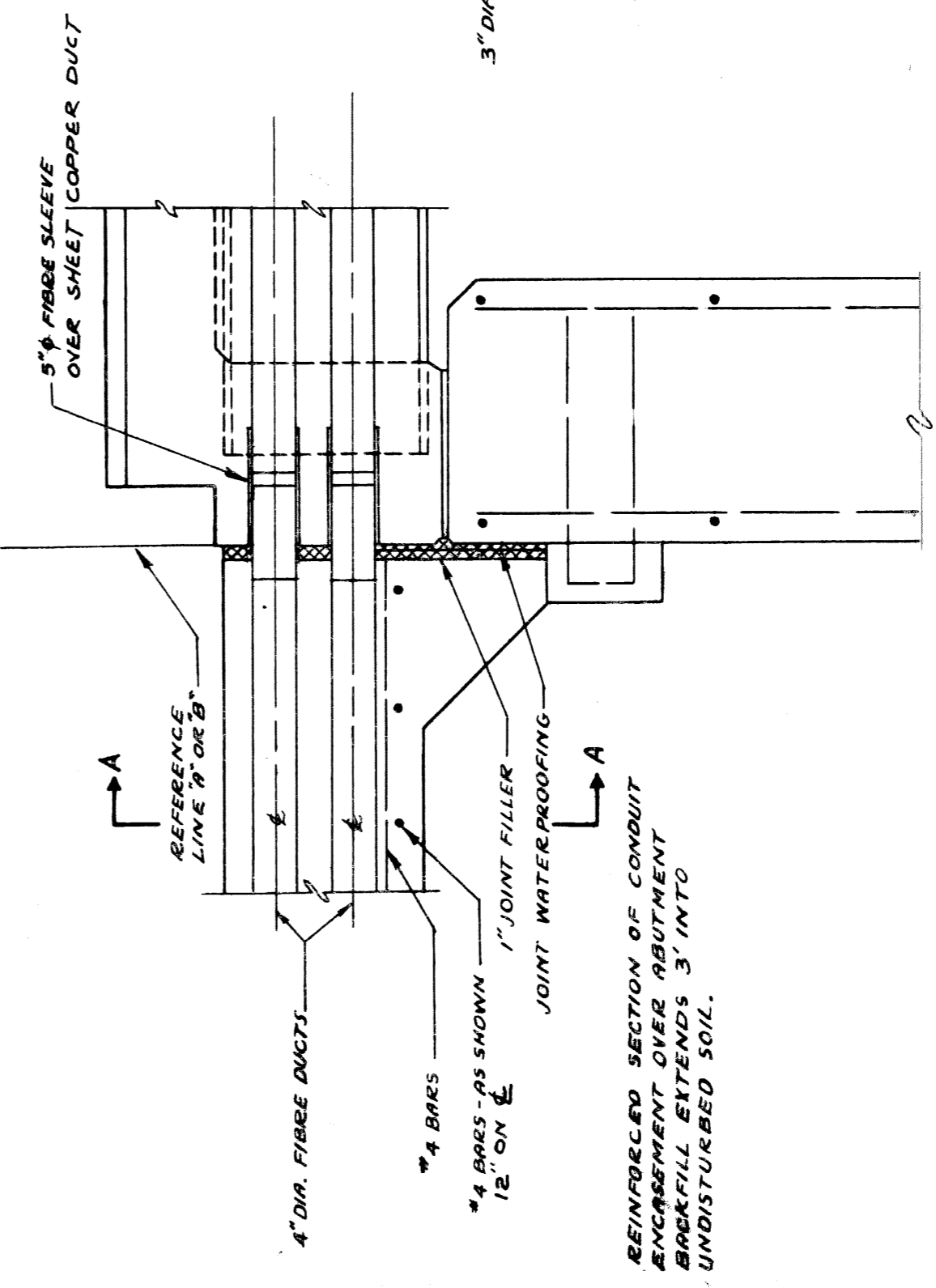


**NOTE**  
W, SHALL NOT EXCEED 12" FOR SINGLE DUCTS. EXCEPT THAT A TRENCH OF LESS THAN 36" WILL NOT BE REQUIRED.

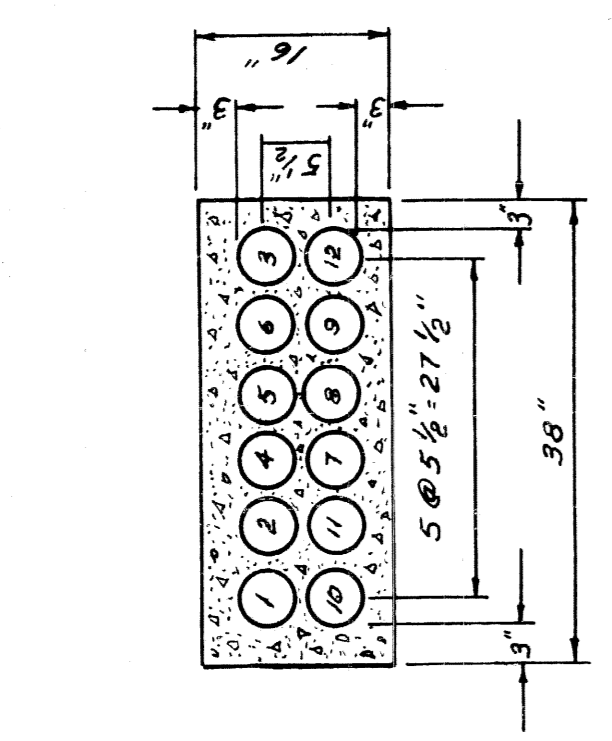
TYPICAL SECTION OF TRENCH  
SCALE 3/4" = 1'-0"



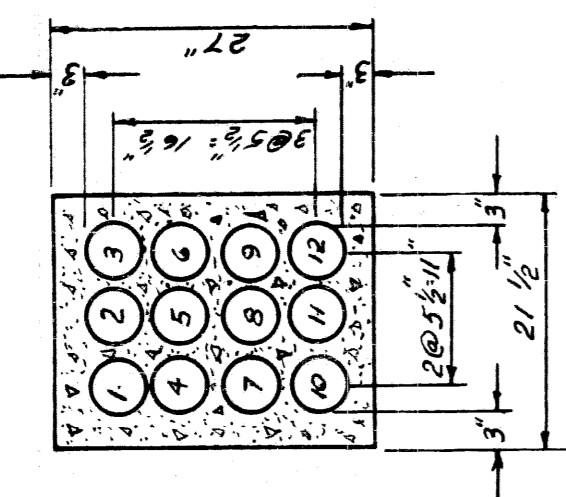
SECTION A-A



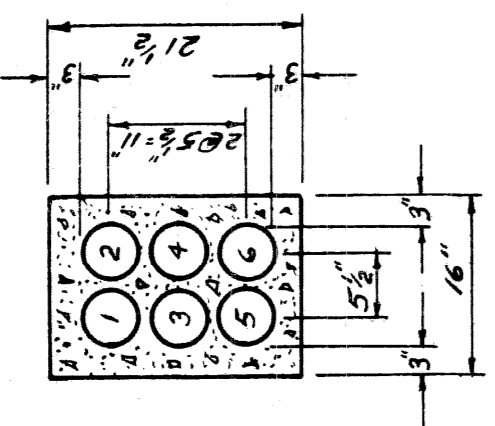
SECTION THROUGH BACKWALL  
SHOWING SUPPORTS FOR 12-4" DIA. ENCASED CONDUIT AND EXPANSION JOINTS FOR UNDERBRIDGE LIGHTING



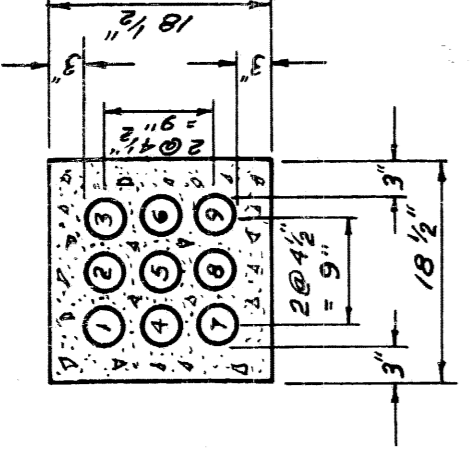
12-4" IN BRIDGE APPROACH



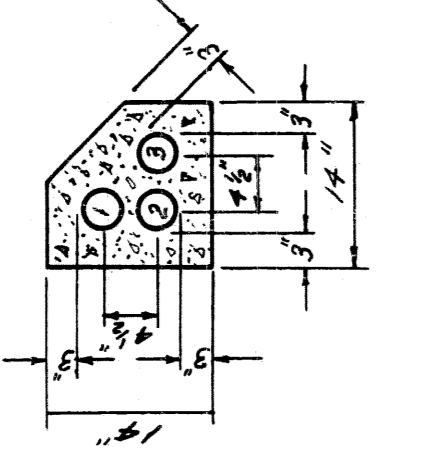
12-4" DUCTS



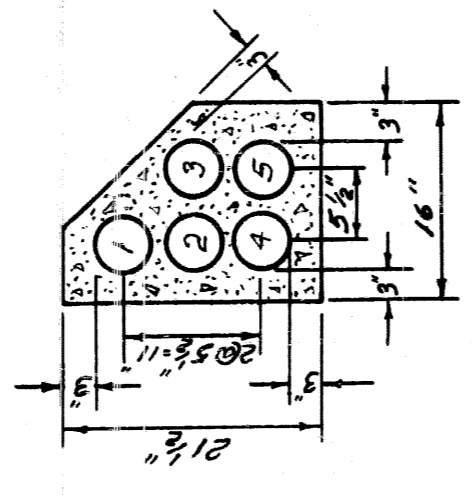
6-4" DUCTS



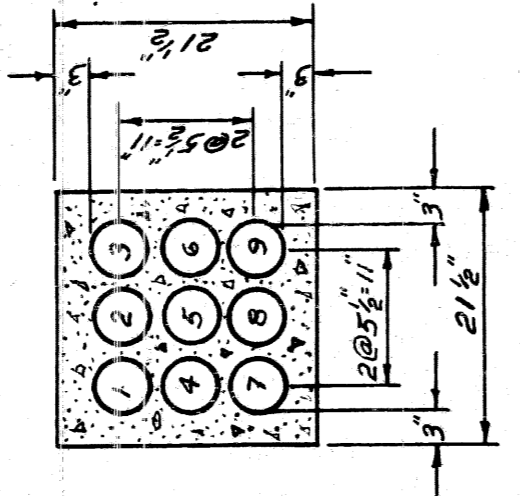
9-3" DUCTS



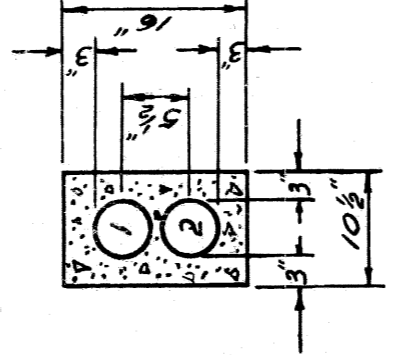
3-3" DUCTS



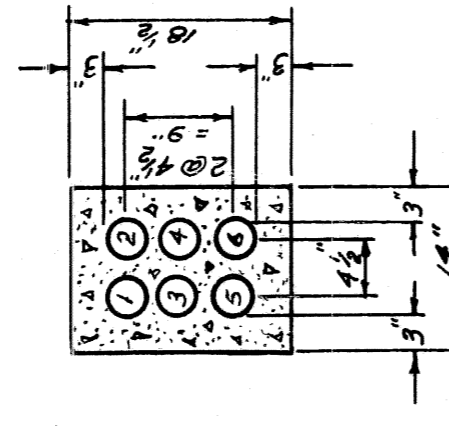
5-4" DUCTS



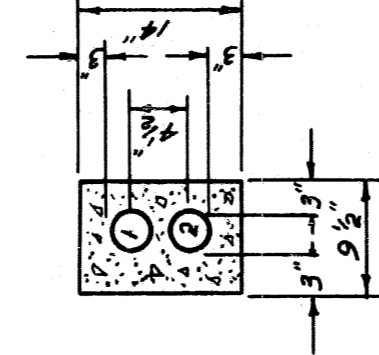
9-4" DUCTS



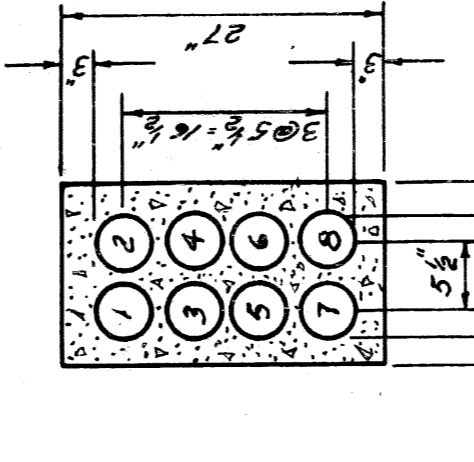
2-4" DUCTS



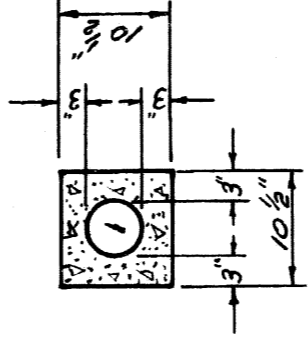
6-3" DUCTS



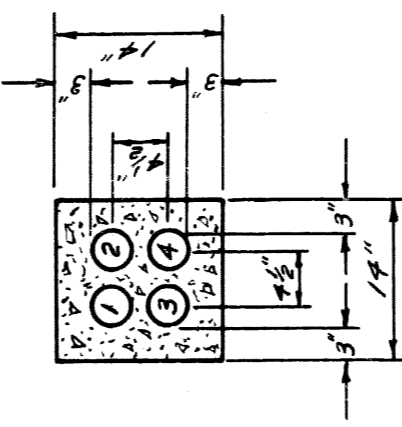
2-3" DUCTS



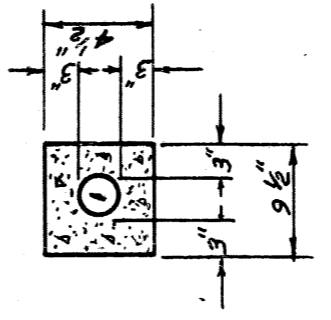
8-4" DUCTS



1-4" DUCT



4-3" DUCTS



1-3" DUCT

TYPICAL DUCT SECTIONS

SCALE 3/4" = 1'-0"

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P.L.C. DETAILS  
MISCELLANEOUS DUCT SECTIONS

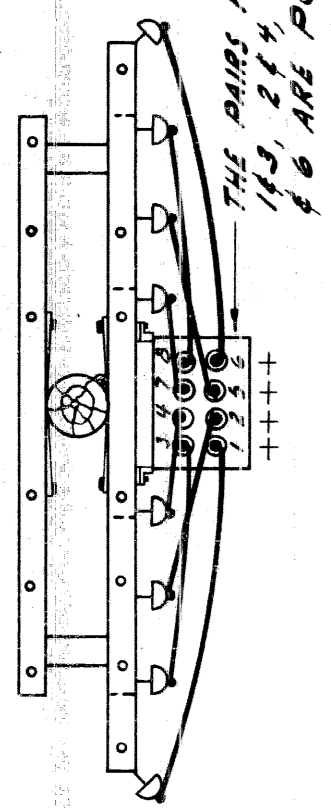
FILE NO. 55-3 B  
DRAWN BY D.J.N.  
CHECKED BY SHEET NO. 24  
APPROVED BY DATE 7-10-53

MICHIGAN STATE HIGHWAY DEPARTMENT

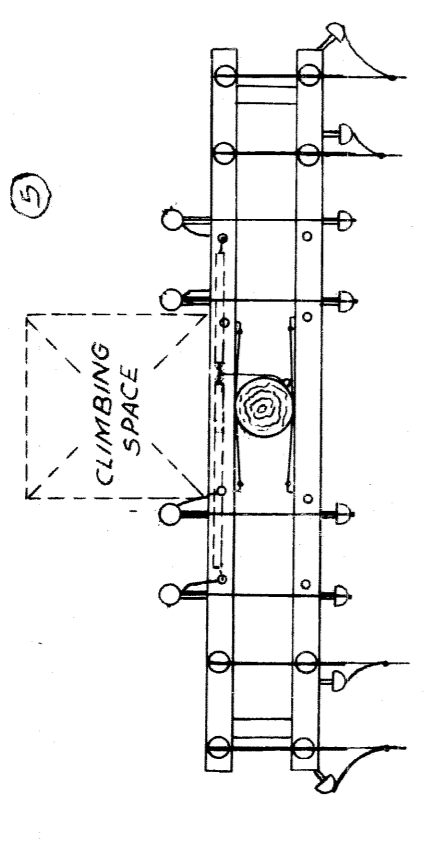
APPROVED: CHIEF BRIDGE OR. FTSMAN  
APPROVED: ENGINEER OF BRIDGE DESIGN  
APPROVED: BRIDGE ENGINEER

REVISIONS  
NO. 1 ADDED 5-4" DUCTS  
NO. 2 THROUGH BACKWALL 2-3-53  
REVISIONS  
RE-DRAWN 4/19/55  
BY CHIEF BRIDGE OR. FTSMAN  
7/18/57  
THROUGH BACKWALL 2-3-53  
BY

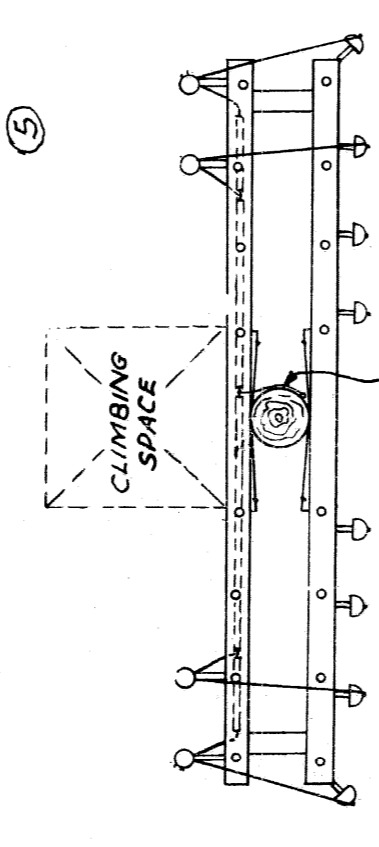
82111-C14



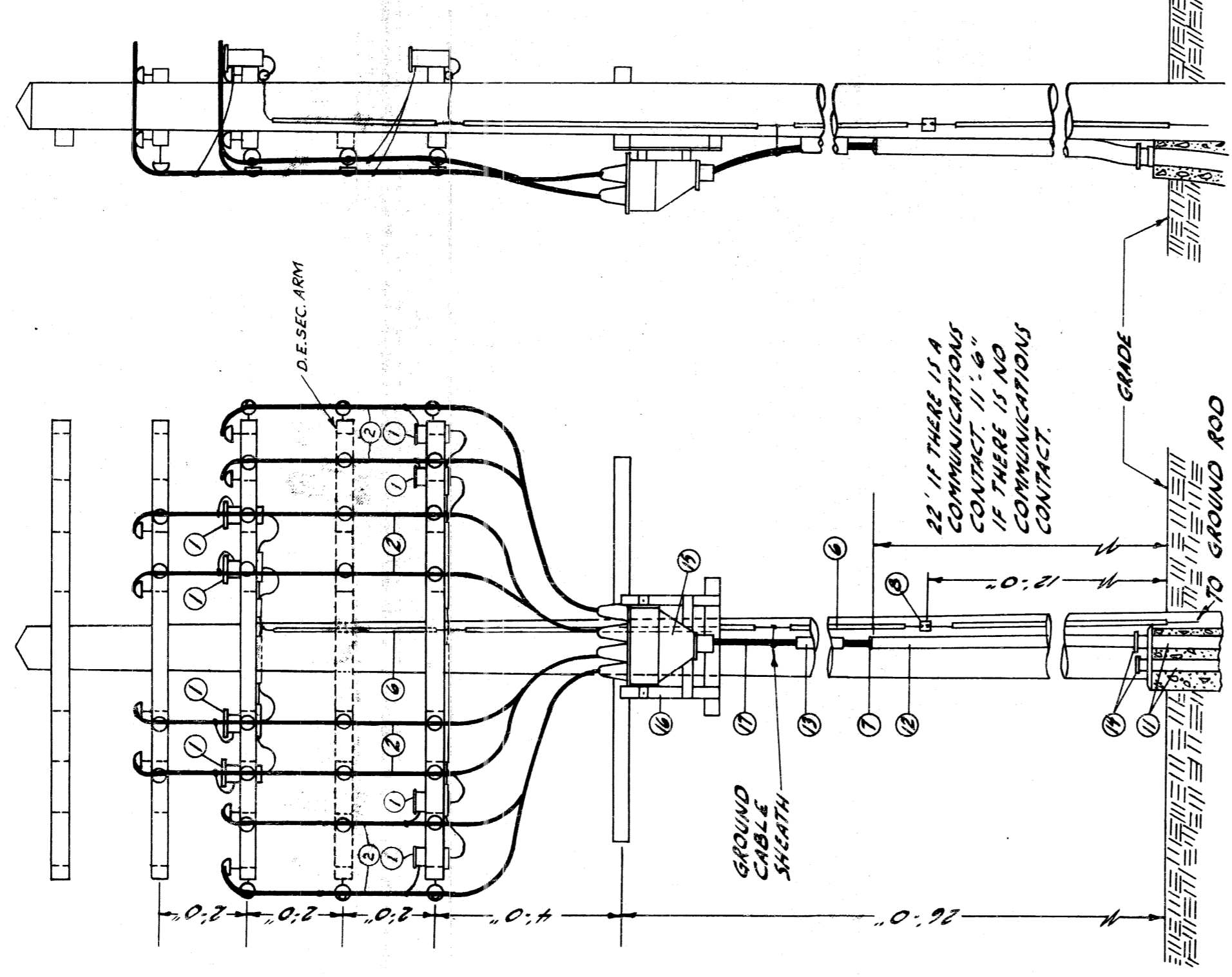
PLAN AT FIFTH CHAIN INCLUDING B/C POTHEAD



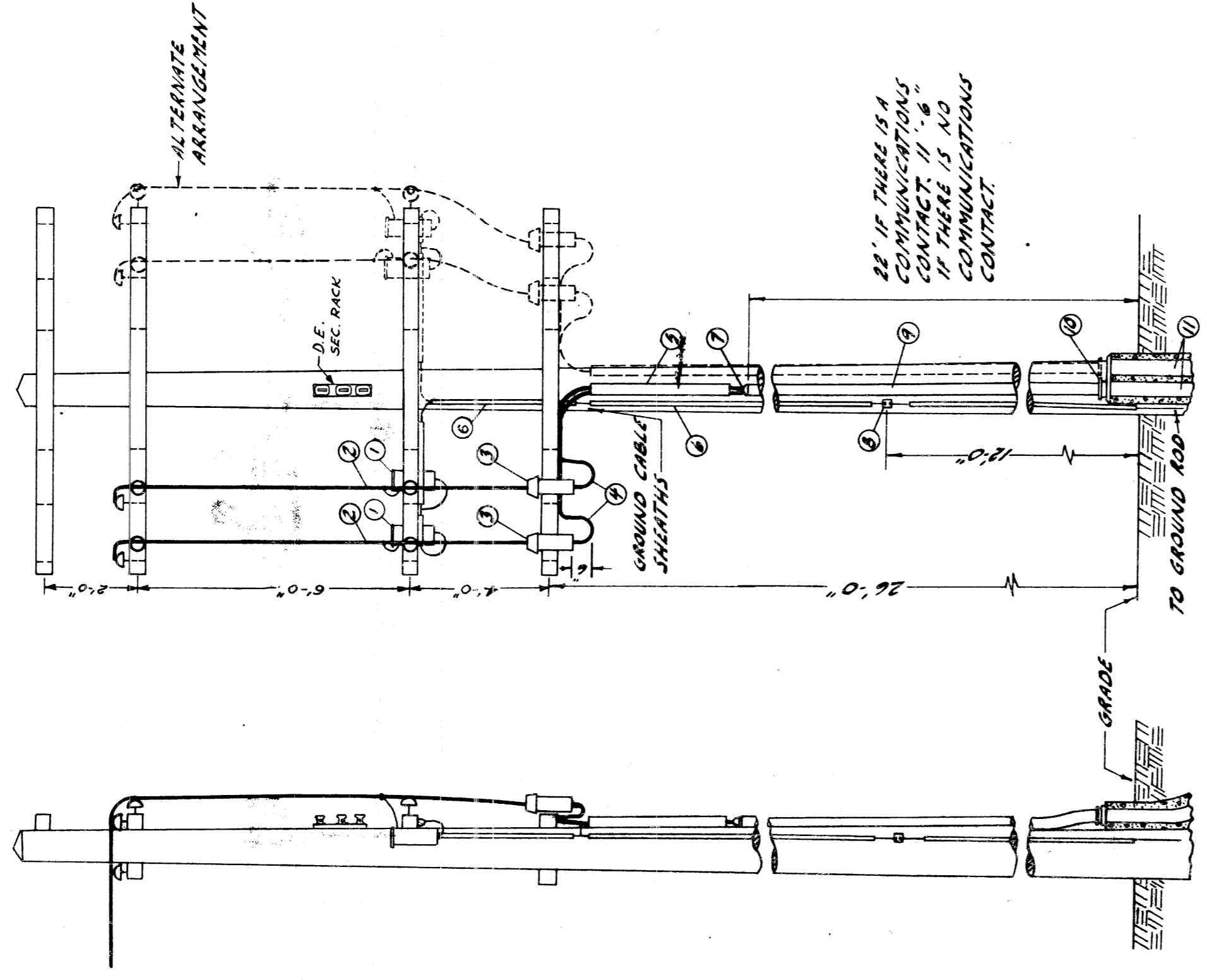
PLAN AT THIRD ARM



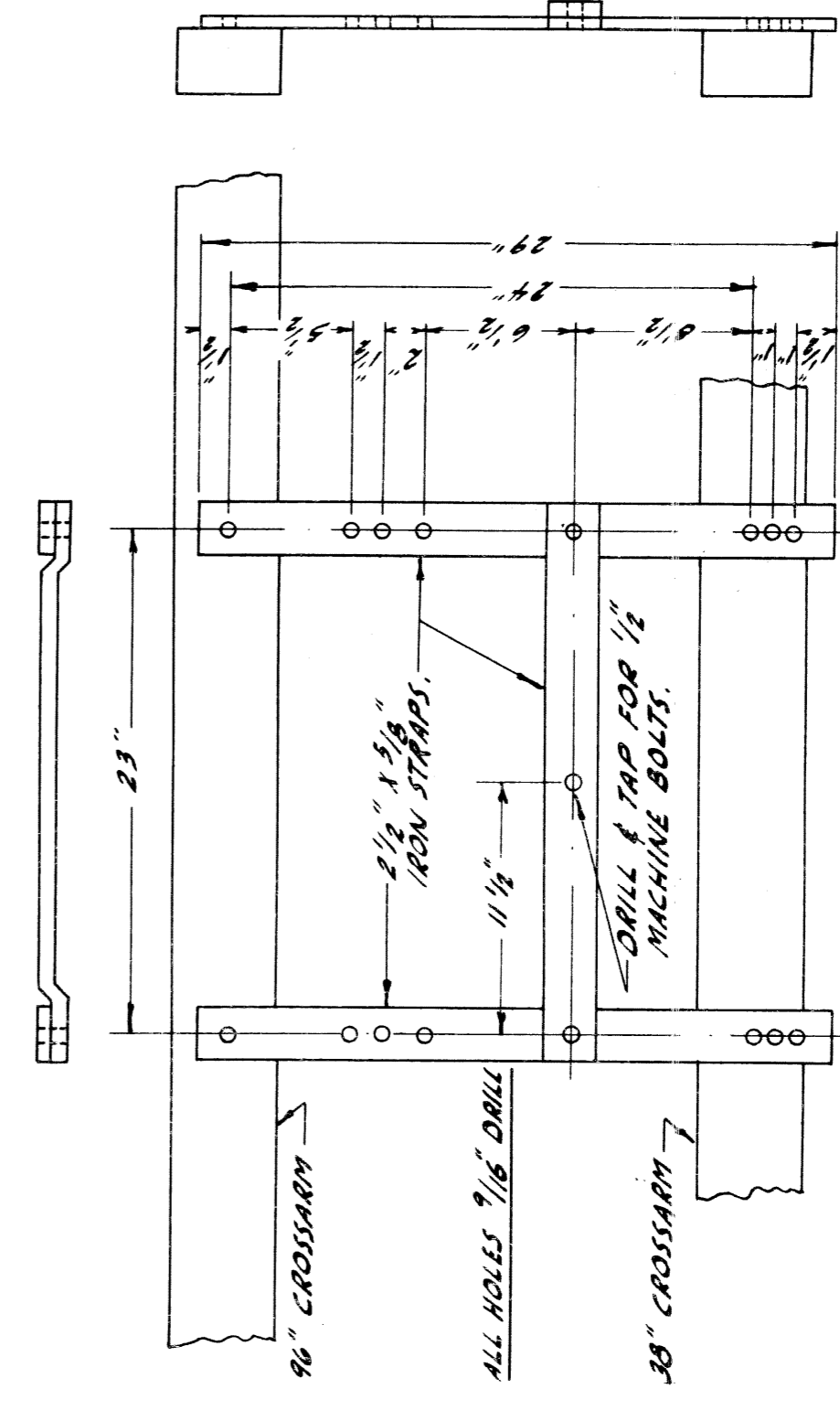
PLAN AT FIFTH ARM



TYPICAL 8/C STREET LIGHTING CABLE POLE  
NO SCALE



TYPICAL STREET LIGHTING CABLE POLE  
NO SCALE



BRACKET FOR B/C POLE TYPE POTHEAD  
DETAIL "A"  
NO SCALE

DETAIL ITEMS	
1	LIGHTNING ARRESTER
2	#6 OVERHEAD TRAPPING WIRE
3	1/2" #8 L.C. CABLE
4	3" SPLIT FIBRE DUCT ABOVE G.I.P. TO 8" BELOW CROSSARM
5	#2 GROUND WIRE UNDER WOOD MOLDING
6	LEAD WEATHERCAP & GASKET BUSHING
7	FOUR SCREW CONNECTOR
8	2 1/2" G.I.P. RISER
9	2 1/2" x 4" REDUCER ADAPTER
10	4" FIBRE CONDUIT
11	3" G.I.P. RISER
12	4" SPLIT FIBRE DUCT
13	3" x 4" RISER ADAPTER
14	B/C POTHEAD MOUNTING BRACKET (SEE DETAIL "A")
15	B/C L.C. CABLE

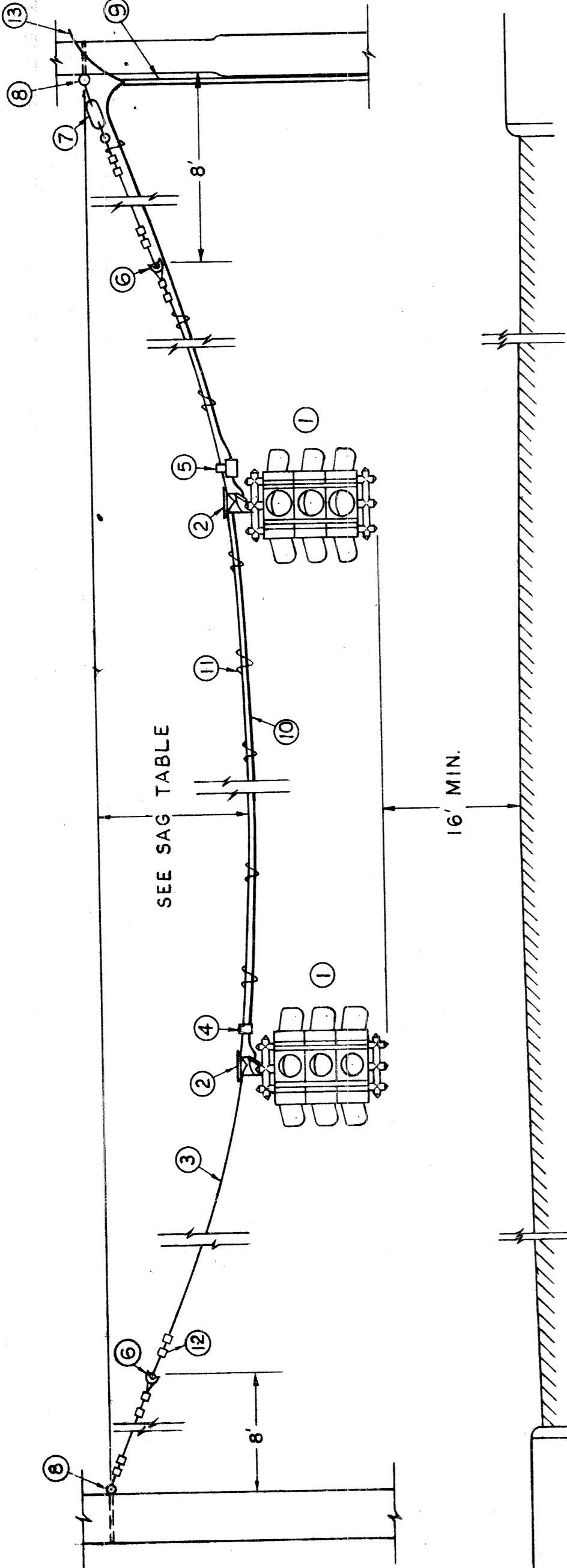
NOTES  
1 SEE SHEET 10 OF P.L.C. DETAILS FOR GROUND ROD AND CONDUIT INSTALLATION.

NO.	REVISION	DATE	BY
1	ADDED B/C C/P DETAIL	2-7-55	D/J
2	CHANGED DIM. TO POTHEAD	5-3-55	R.T.
3	CHANGED GROUNDING DETAIL TO B/C	6-2-55	R.C.P.

CITY OF DETROIT PUBLIC LIGHTING COMMISSION	FILE NO.	55-3E	
	DRAWN BY	D/J	
	CHECKED BY	W.B. [Signature]	
P.L.C. DETAILS--CABLE POLES	SHEET NO.	26	
	APPROVED BY	[Signature]	
MICHIGAN STATE HIGHWAY DEPARTMENT		DATE	4-28-55

APPROVED	CHIEF BRIDGE DRAFTSMAN
APPROVED	ENGINEER OF BRIDGE DESIGN
APPROVED	BRIDGE ENGINEER

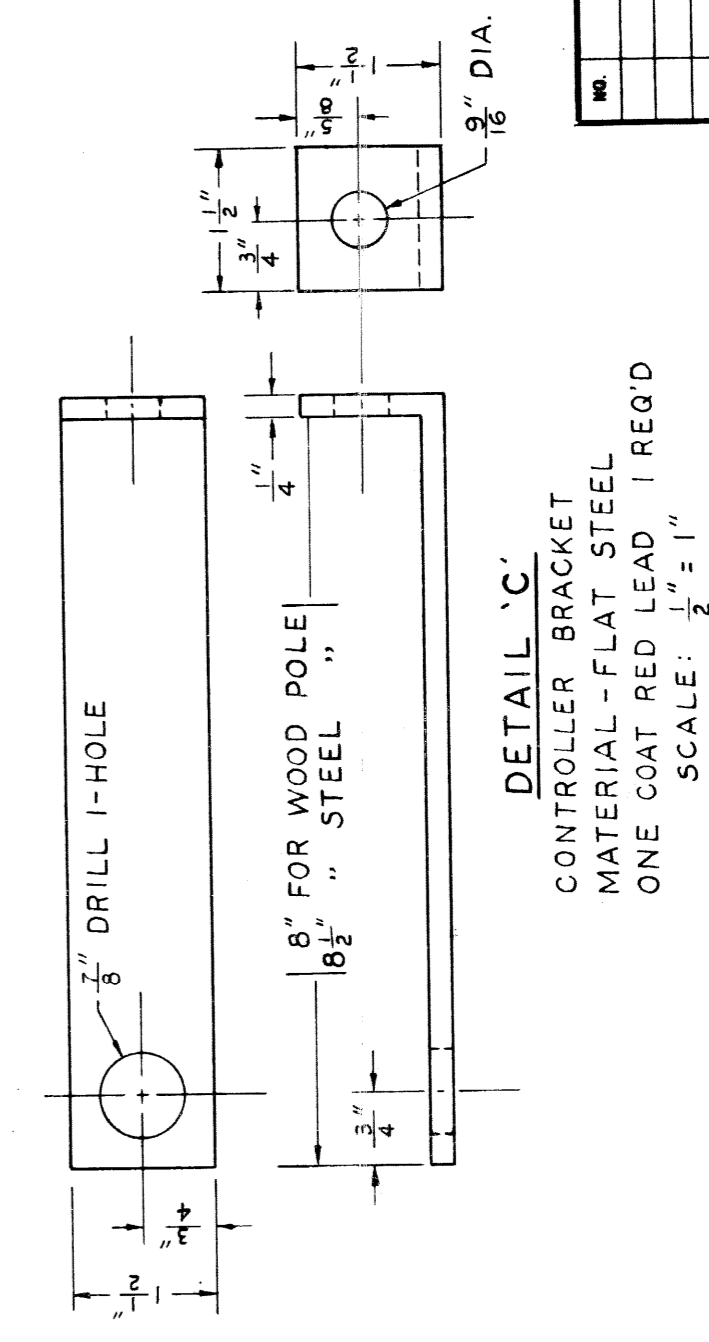
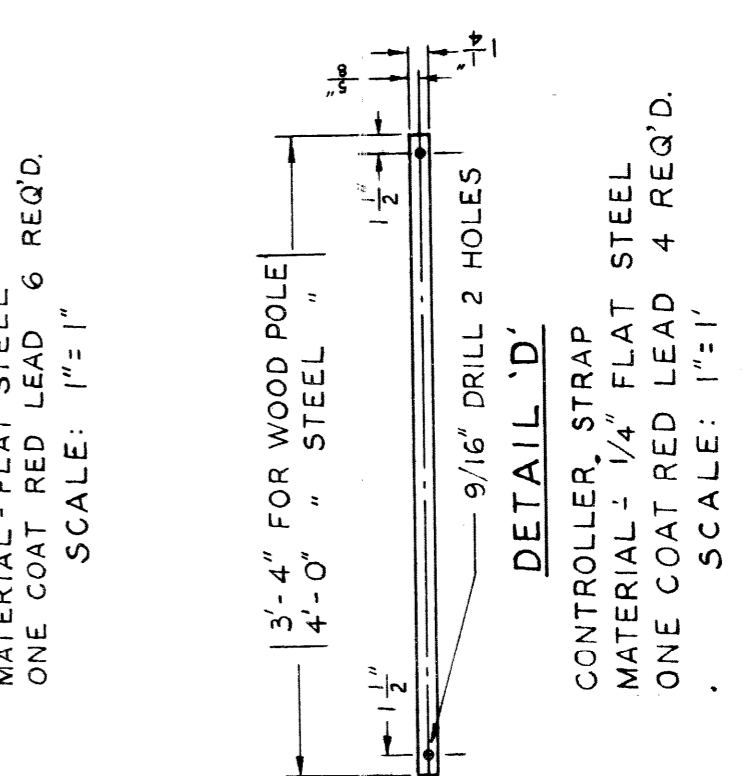
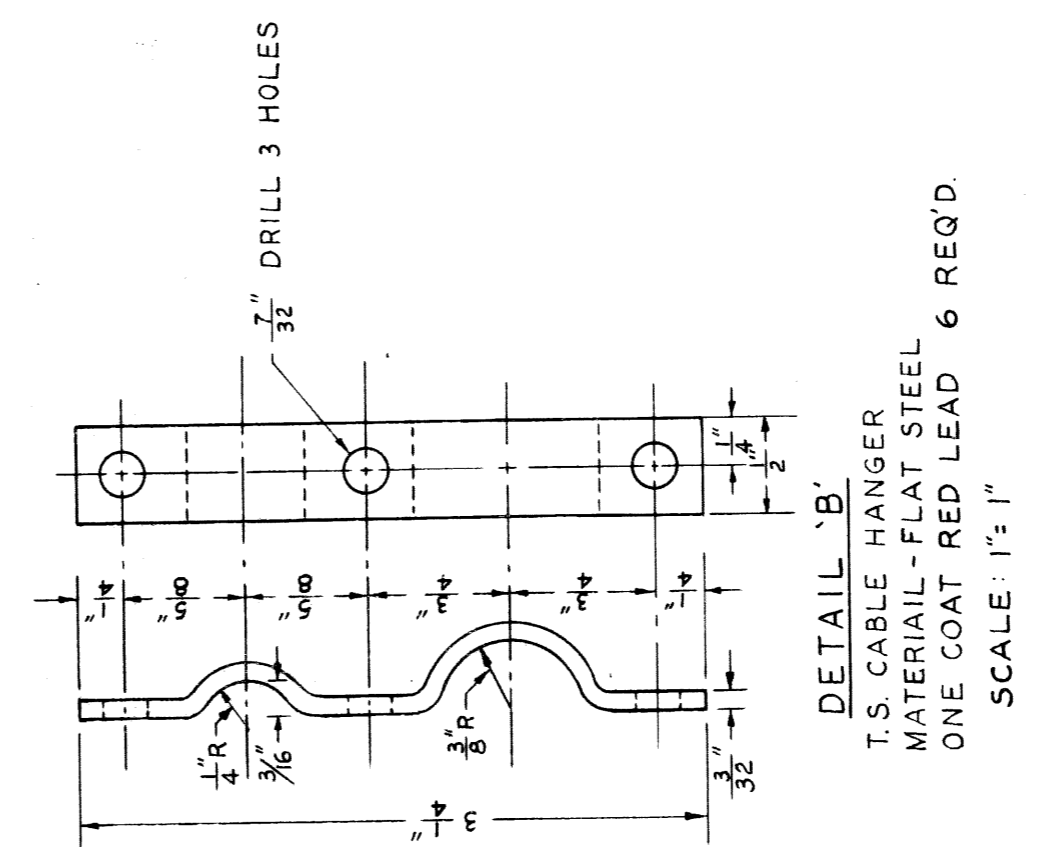
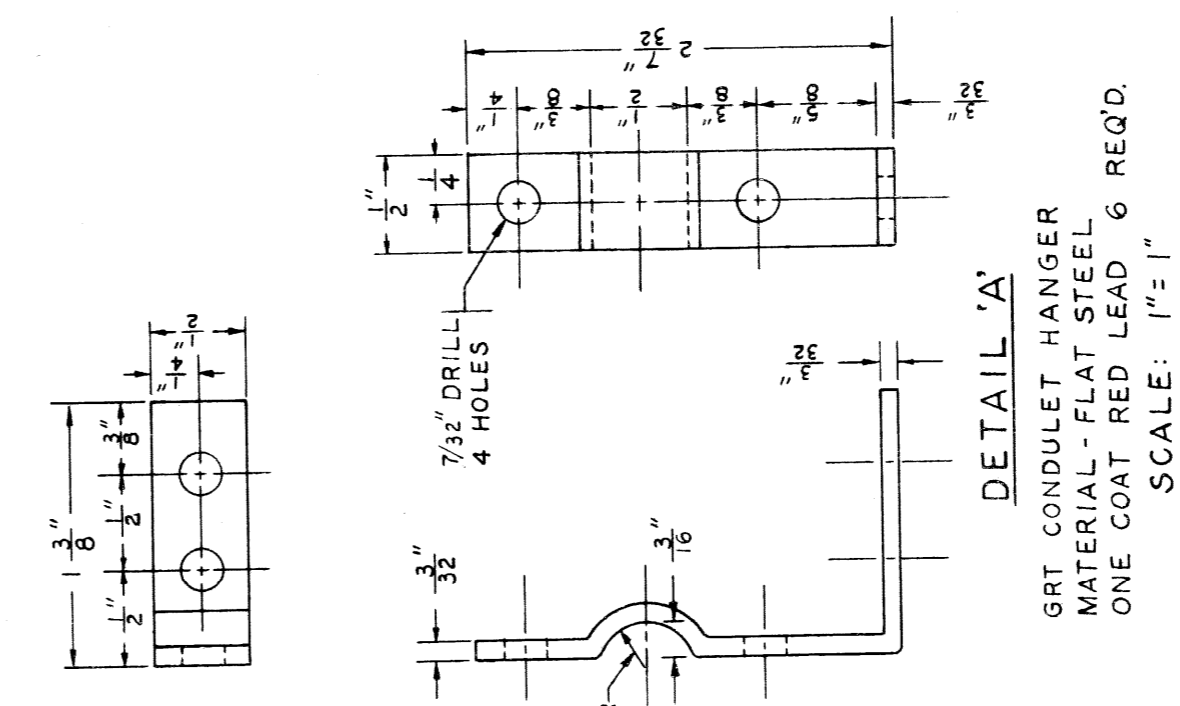
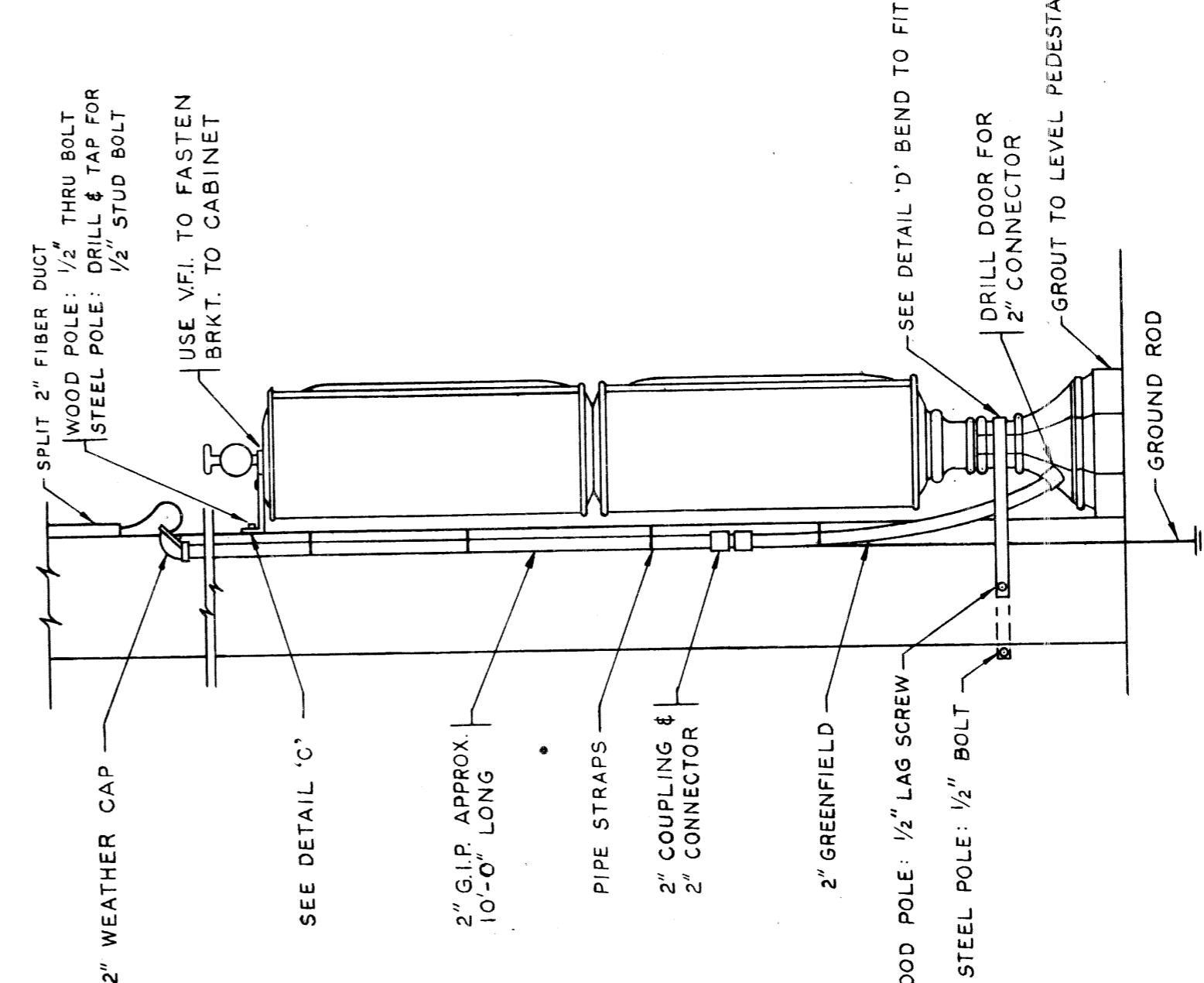
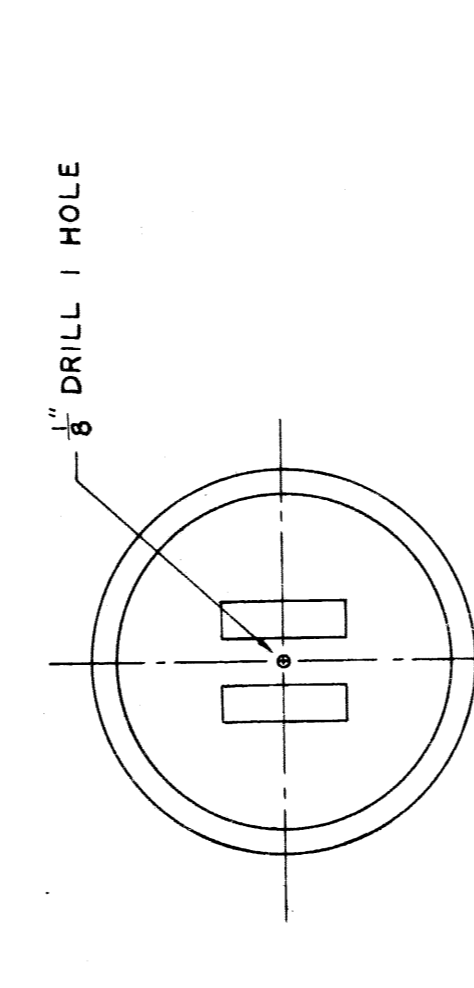
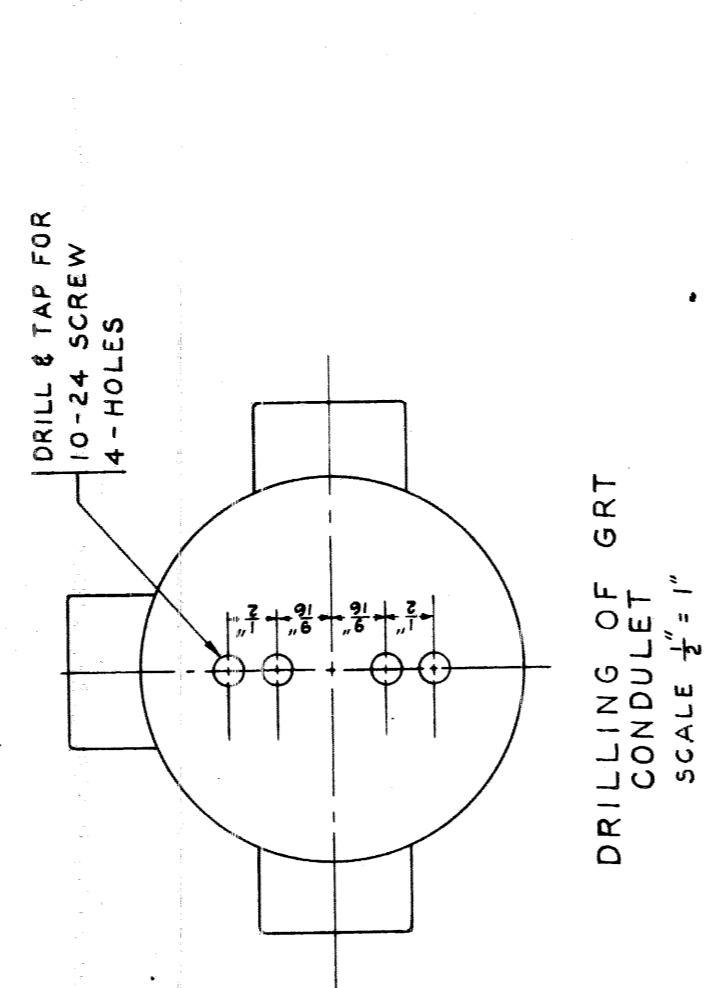
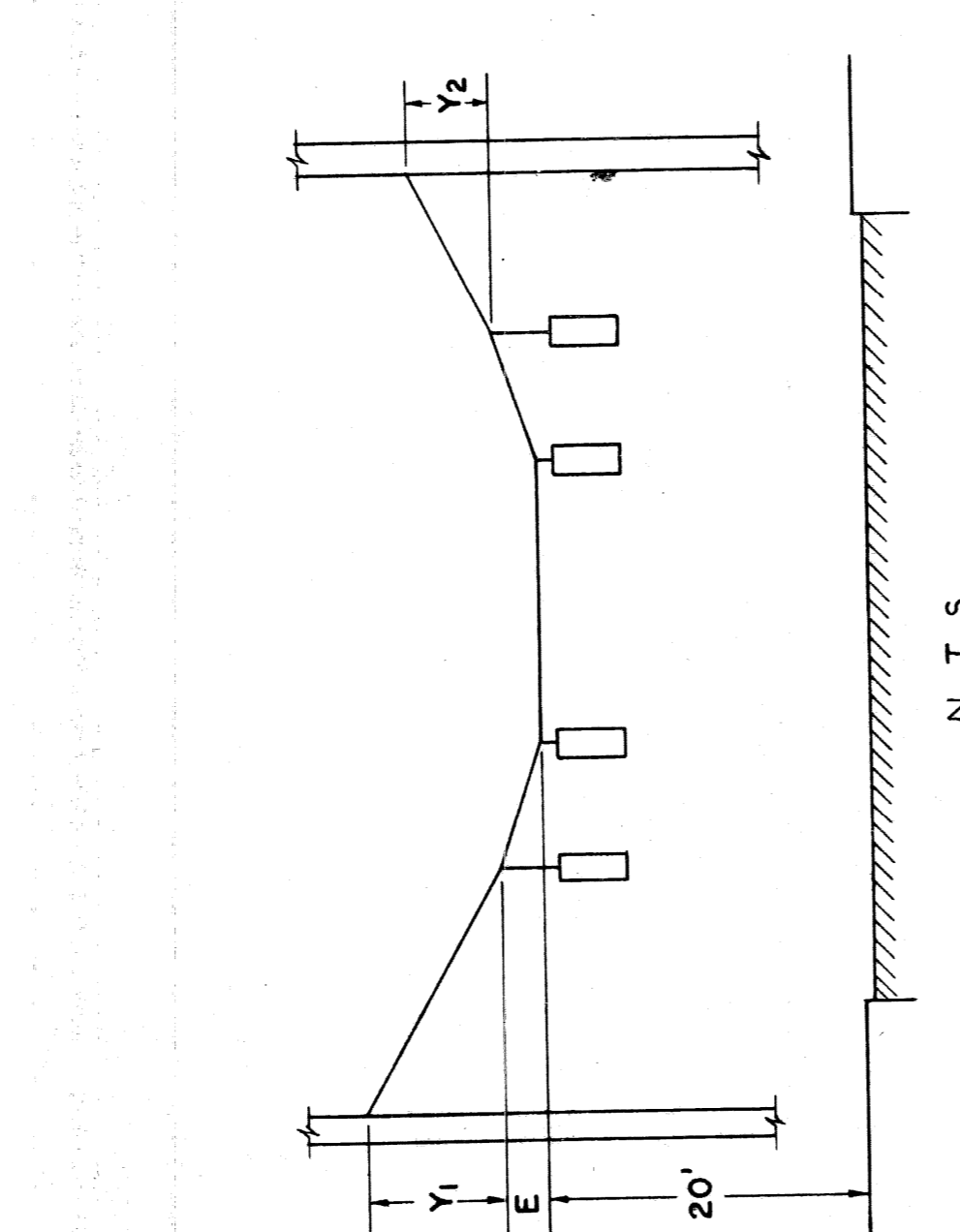
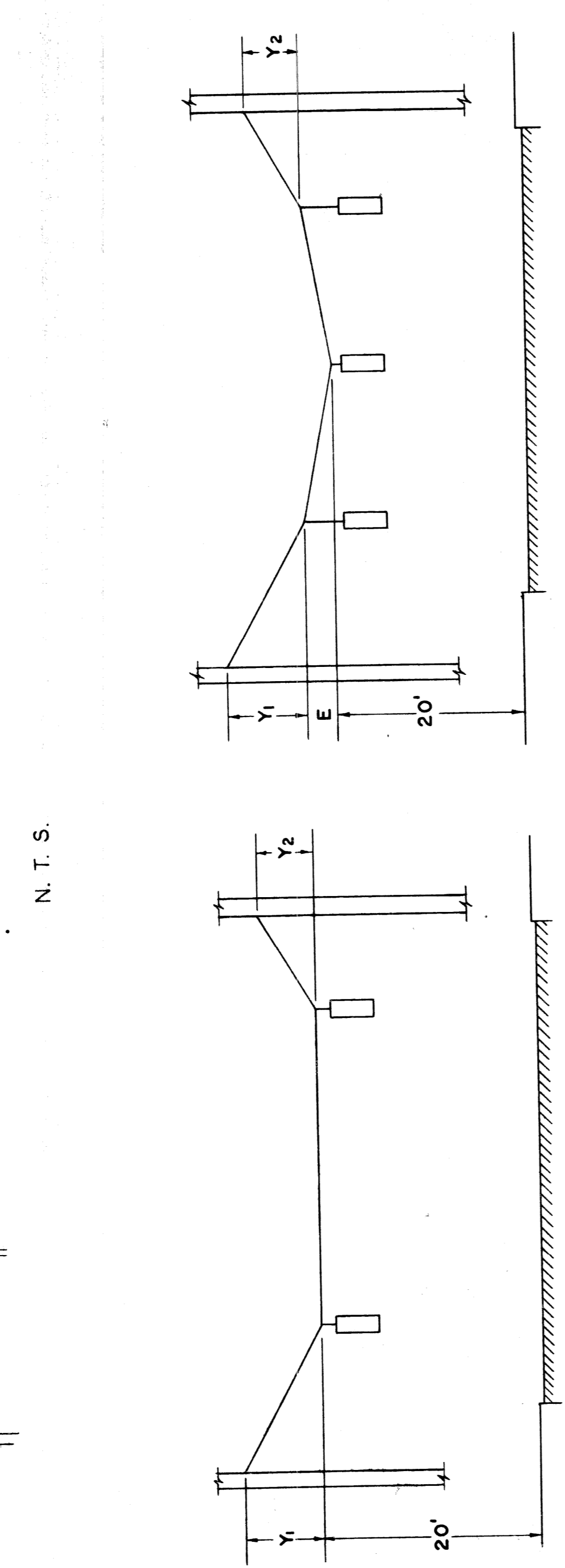
82111-C14



NO.	ITEM
1	2 OR 3 WAY SIGNAL AS REQUIRED
2	SPAN WIRE HANGER
3	1/2" GUY WIRE
4	CABLE HANGER DETAIL 'B'
5	GRT CONDULET & HANGER DETAIL 'A'
6	STRAIN INSULATOR
7	5/8" x 18" TURNBUCKLE
8	5/8" EYE BOLT
9	WOOD MOULDING OR SPLIT FIBRE DUCT
10	# 14 T.S. CABLE (AS SPECIFIED)
11	CABLE HANGERS & SADDLES
12	WIRE CLIPS
13	2/C-#8 CABLE FOR SERVICE

NOTE: SEE GENERAL PLAN FOR SAG DATA

INTERSECTION	Y <sub>1</sub>	Y <sub>2</sub>	E	SAG (BELOW LOWER SUPPORT) WITHOUT LOAD	WITH LOAD



**CITY OF DETROIT**  
PUBLIC LIGHTING COMMISSION  
PLC. DETAILS TRAFFIC SIGNALS

DRAWN BY: J. C. F. FILE NO.: 55-3  
APPROVED BY: [Signature] SHEET NO.: 28  
APPROVED BY DATE: 10-16-54

**MICHIGAN STATE HIGHWAY DEPARTMENT**

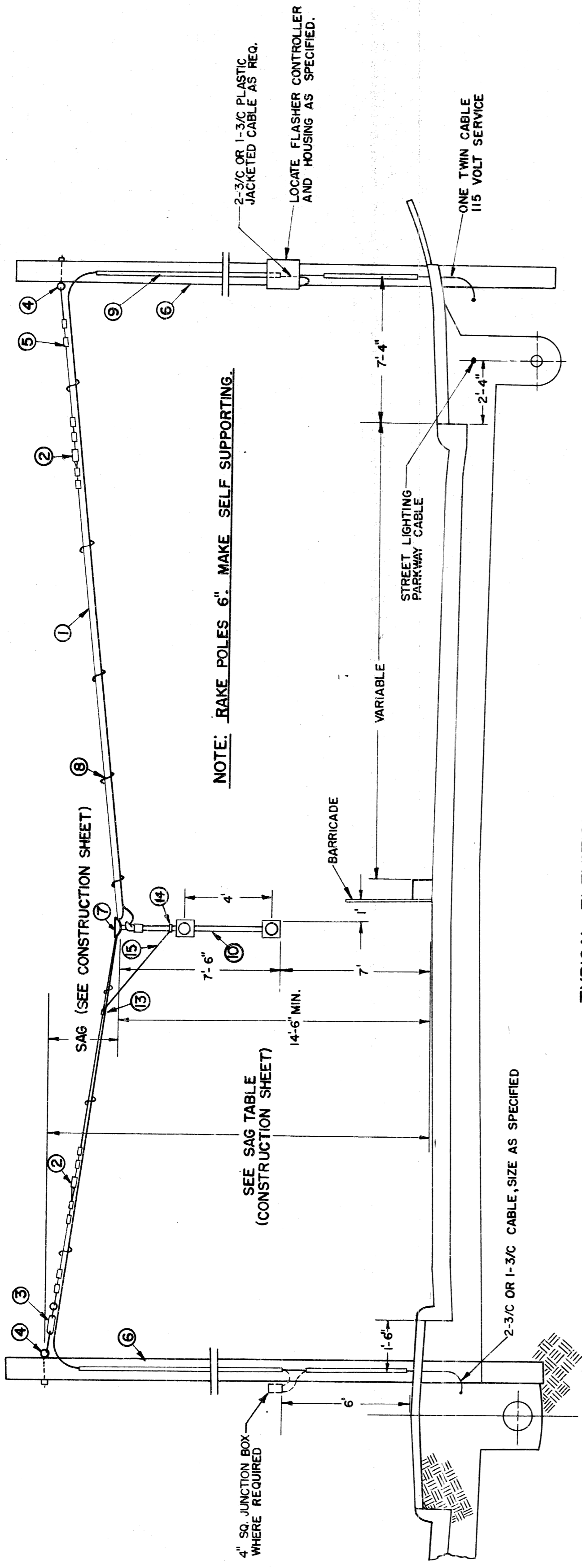
APPROVED: \_\_\_\_\_ CHIEF BRIDGE DRAFTSMAN  
APPROVED: \_\_\_\_\_ ENGINEER OF BRIDGE DESIGN  
APPROVED: \_\_\_\_\_ BRIDGE ENGINEER

REVISIONS: \_\_\_\_\_ DATE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

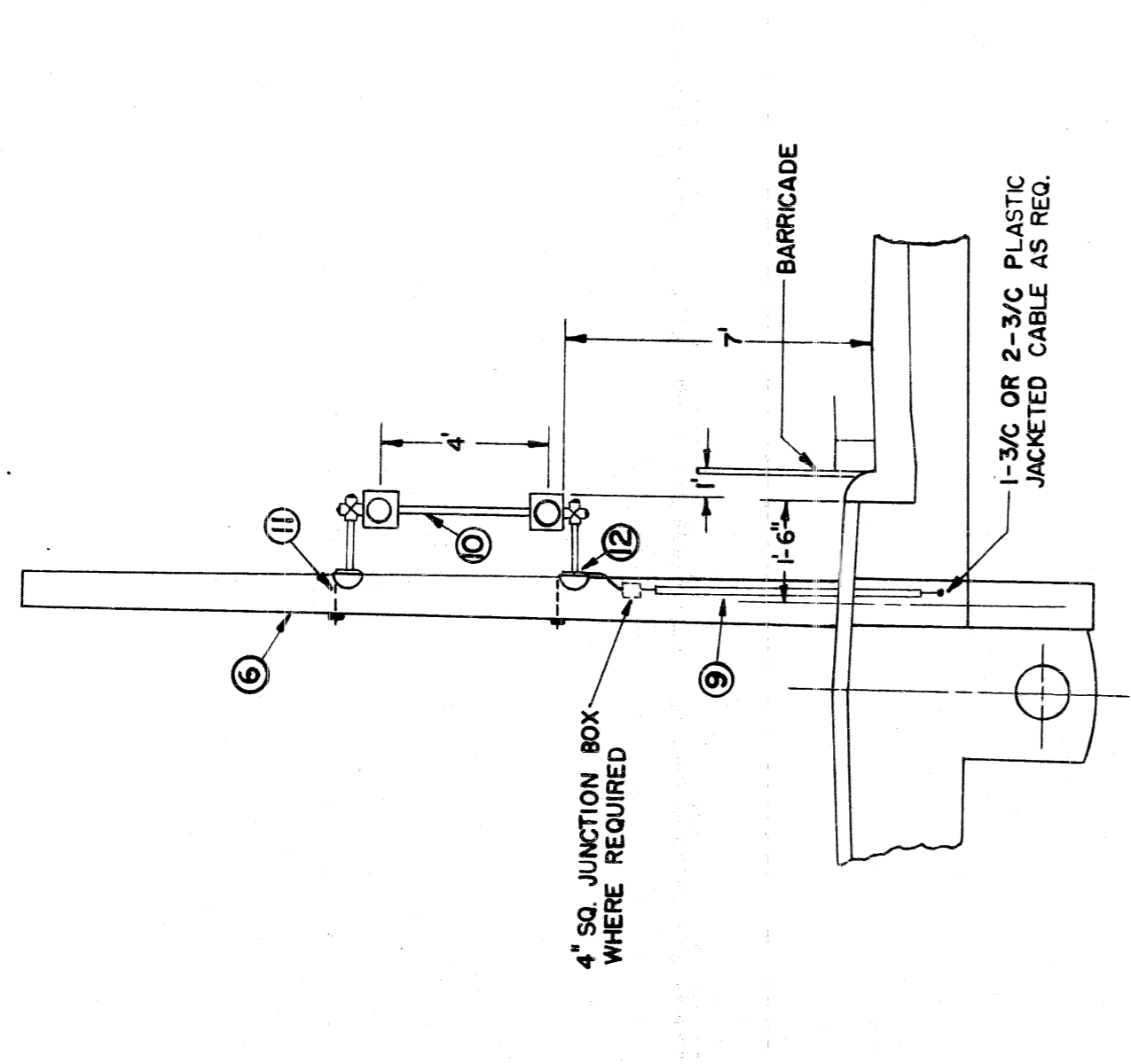
82111-C14

DETAIL NOTES

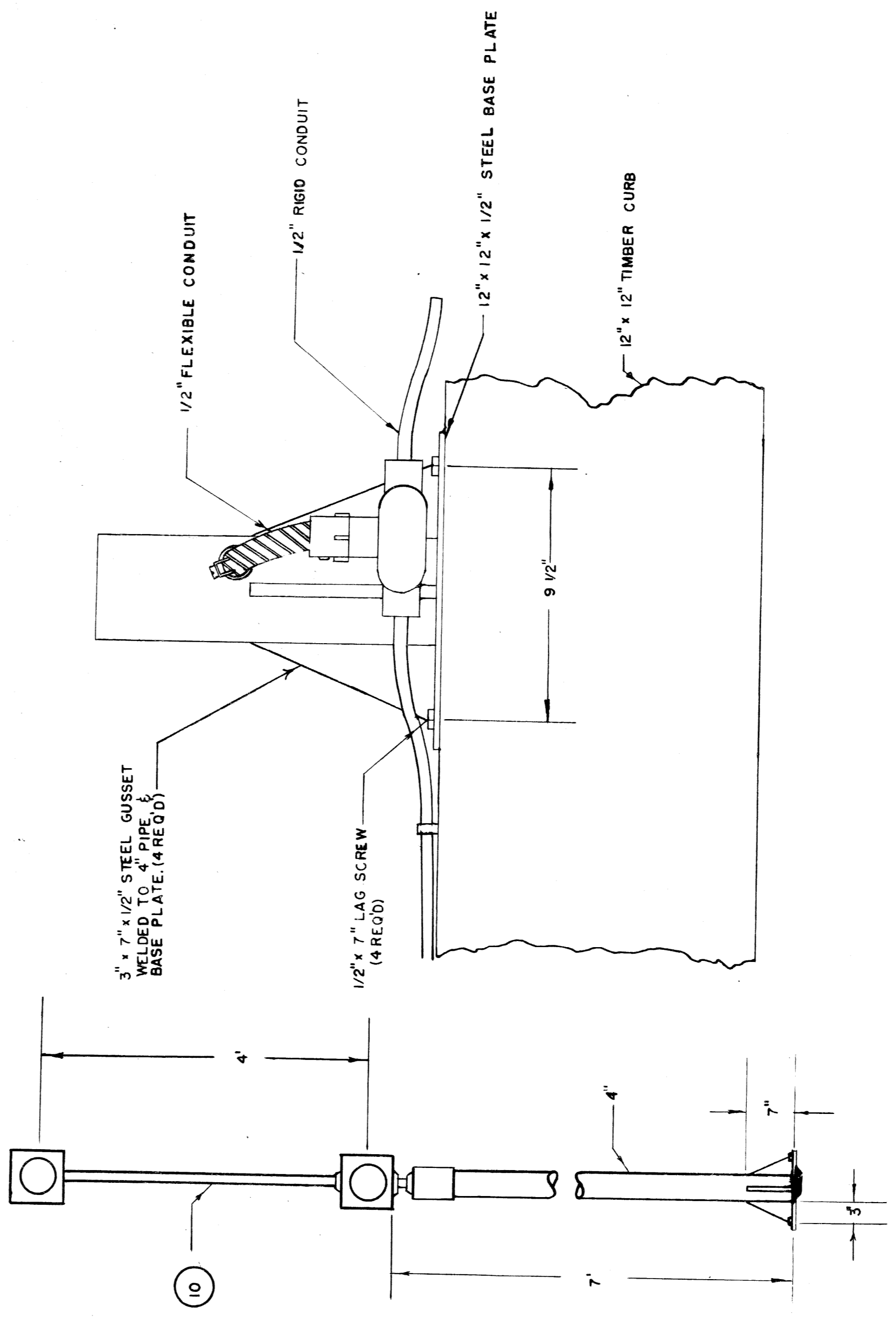
NO.	DESCRIPTION
1	1/4" GUY WIRE
2	STRAIN INSULATOR
3	5/8" x 18" TURNBUCKLE
4	5/8" EYE BOLT
5	WIRE CLIPS
6	25' CLASS, OR BETTER, WOOD POLE
7	SPAN WIRE HANGER
8	PREFORMED STEEL LASHINGS
9	WOOD MOULDING
10	DOUBLE FLASHER ASSEMBLY
11	1/2" x 1/8" THRU-BOLT AT TOP OF POLE PLATE AND 1/2" x 5" LAG SCREWS AT SIDES
12	POLE PLATE FOR 1-1/2" PIPE WITH BUSHED CABLE ENTRANCE
13	ONE BOLT GUY CLAMP
14	1-1/2" PIPE CLAMP - 1/4" x 1" MATERIAL
15	60 x 3/16 x 3/4" GALVANIZED IRON BAR



TYPICAL ELEVATION  
SUSPENSION TYPE MOUNTING OF DOUBLE FLASHER SIGNAL  
DETAIL 'A'  
N.T.S.



ELEVATION  
BRACKET TYPE MOUNTING OF DOUBLE FLASHER SIGNAL  
DETAIL 'B'  
N.T.S.



ELEVATION  
PEDESTAL TYPE MOUNTING OF DOUBLE FLASHER SIGNAL  
DETAIL 'C'  
N.T.S.

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
—P.L.C. DETAILS—  
DOUBLE FLASHER SIGNAL  
(TYPICAL)

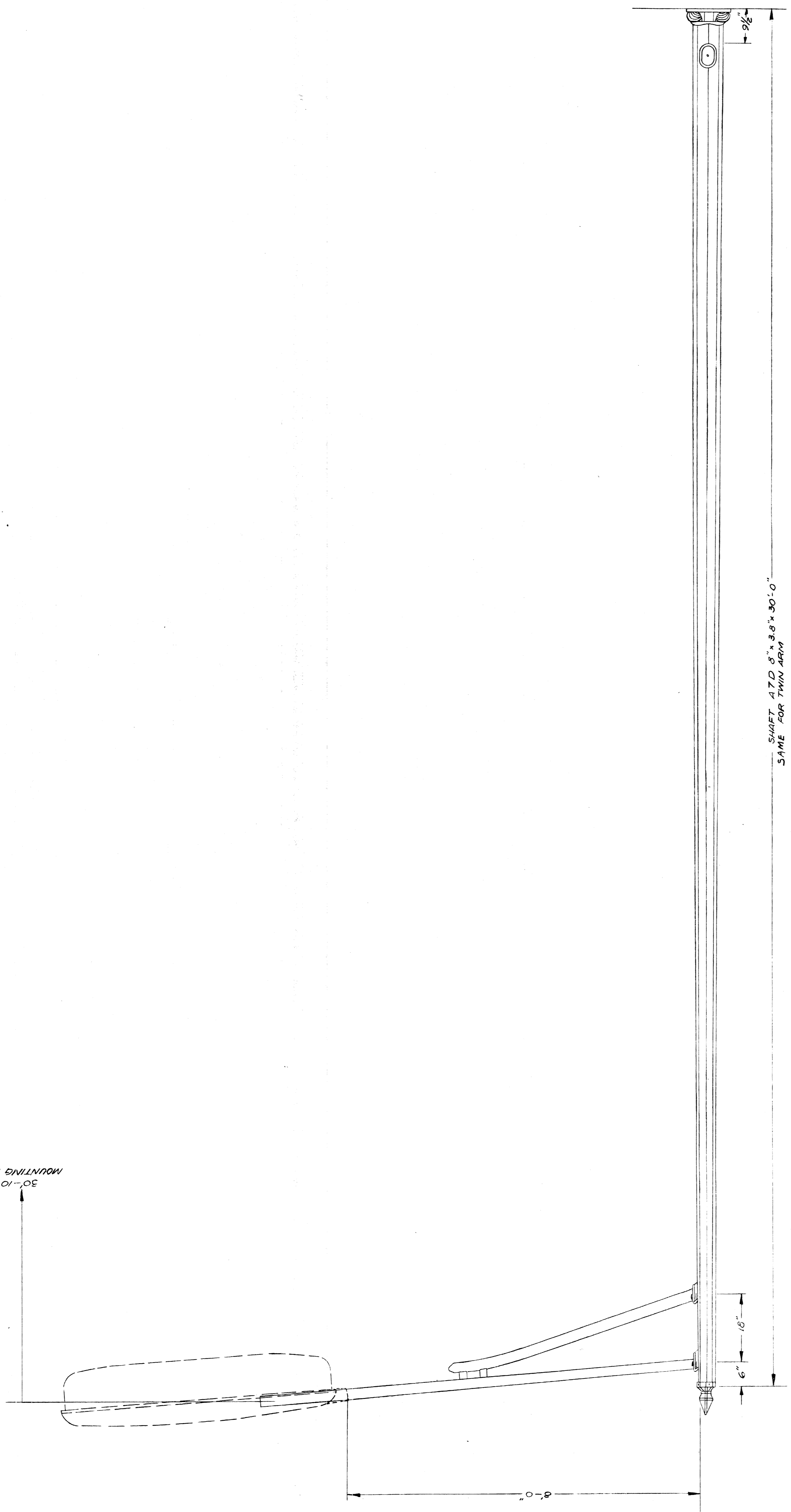
MICHIGAN STATE HIGHWAY DEPARTMENT

DRAWN BY	FILE NO.
L.W.M.	55-3
CHECKED BY	SHEET NO.
[Signature]	29
APPROVED BY	DATE
[Signature]	12-17-59

NO.	REVISIONS	DATE	BY

82111-C14

30'-10"  
MOUNTING HEIGHT



SHAFT 1/2" x 3.8" x 30'-0"  
SAME FOR TWIN ARM

SCALE: 3/4" = 1'

CITY OF DETROIT PUBLIC LIGHTING COMMISSION — DETAIL — U.G. STREET LIGHTING STANDARD	DRAWN BY	FILE NO.
	L.M.	55-3
	CHECKED BY	SHEET NO.
APPROVED BY	DATE	
<i>[Signature]</i>	3-27-59	

TYPE A - U.G. FLUORESCENT ST. LTG. STD. - 801-A 7H 300 C 2 E - SINGLE ARM  
WITH F 406 S 20,000 L LUMINAIRE, OR APPROVED EQUAL.  
TYPE 2A - U.G. FLUORESCENT ST. LTG. STD. - 901-A 7H 300 CC 2 E - DLB. ARM  
OR APPROVED EQUAL.

MICHIGAN STATE HIGHWAY DEPARTMENT

REVISIONS	
NO.	DESCRIPTION

DATE	BY

82111-C14



# QUANTITY SHEET - E

## DRAINAGE ITEMS

STATE: MI  
 COUNTY: Wayne  
 CITY: Detroit  
 PROJECT: 82/11  
 SHEET NO.: 57

### AS PER PLANS

Item	34D 3B		3J 6D 6J		Totals
	34D	3B	3J	6D 6J	
Remove Items Sheet # 9					
Expressway Item Sheet # 10	3				3
Mid. Jefferson Ave. Sheet # 12			5		5
End Jefferson Ave. Sheet # 13			4		4
DeTour Roadway Sheet # 14			1	2	3
Sewer Alterations Sheet # 22				2	2
Bank Drains (Entire Project)			1		1
<b>Totals</b>	<b>1</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>13</b>
Catch Basins 6' x 14' x 25' Deep Each					
Mansoles 1A		4			4
Manhole 2A			1		1
Manhole 3A			1		1
Manhole 4A			1		1
Manhole 5A			1		1
Manhole 6A			1		1
Manhole 7A			1		1
Manhole 8A			1		1
Manhole 9A			1		1
Manhole 10A			1		1
Manhole 11A			1		1
Manhole 12A			1		1
Manhole 13A			1		1
Manhole 14A			1		1
Manhole 15A			1		1
Manhole 16A			1		1
Manhole 17A			1		1
Manhole 18A			1		1
Manhole 19A			1		1
Manhole 20A			1		1
Manhole 21A			1		1
Manhole 22A			1		1
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Manhole 37A			1		1
Manhole 38A			1		1
Manhole 39A			1		1
Manhole 40A			1		1
Manhole 41A			1		1
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Manhole 93A			1		1
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Manhole 95A			1		1
Manhole 96A			1		1
Manhole 97A			1		1
Manhole 98A			1		1
Manhole 99A			1		1
Manhole 100A			1		1

### AS CONSTRUCTED

Item	34D 3B		3J 6D 6J		Totals
	34D	3B	3J	6D 6J	
Remove Items Sheet # 9					
Expressway Item Sheet # 10					
Mid. Jefferson Ave. Sheet # 12					
End Jefferson Ave. Sheet # 13					
DeTour Roadway Sheet # 14					
Sewer Alterations Sheet # 22					
Bank Drains (Entire Project)					
<b>Totals</b>	<b>1</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>13</b>
Remove Items Sheet # 9					
Expressway Item Sheet # 10					
Mid. Jefferson Ave. Sheet # 12					
End Jefferson Ave. Sheet # 13					
DeTour Roadway Sheet # 14					
Sewer Alterations Sheet # 22					
Bank Drains (Entire Project)					
<b>Totals</b>	<b>1</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>13</b>

### SURFACING (SQ. YD.) - CURB AND GUTTER (LIN. FT.)

Item	34D 3B		3J 6D 6J		Totals
	34D	3B	3J	6D 6J	
Remove Items Sheet # 9					
Expressway Item Sheet # 10					
Mid. Jefferson Ave. Sheet # 12					
End Jefferson Ave. Sheet # 13					
DeTour Roadway Sheet # 14					
Sewer Alterations Sheet # 22					
Bank Drains (Entire Project)					
<b>Totals</b>	<b>1</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>13</b>

# QUANTITY SHEET-F

## CULVERTS

## AS PER PLANS

## AS CONSTRUCTED

## AS PER PLANS

## AS CONSTRUCTED

CULV. NO.	STATION	STANDARD PLAN	SIZE	LENGTH	GRADE A CONCRETE CU. YDS.	STEEL REINF. LBS.	LIN. FT. CIRC. CLASS A	LIN. FT. CIRC. CLASS B	CULV. NO.	STATION	STANDARD PLAN	SIZE	LENGTH	GRADE A CONCRETE CU. YDS.	STEEL REINF. LBS.	LIN. FT. CIRC. CLASS A	LIN. FT. CIRC. CLASS B	EXPLANATION OF CHANGES	
																			TOTAL CULVERTS 20 FT. SPAN OR UNDER
TOTAL CULVERTS 20 FT. SPAN OR UNDER																			
TOTAL CULVERTS OVER 20 FT. SPAN																			

TOTAL	3243	354	1727	388	4686	2081	318	378
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GRADING									
STA. TO STA.	Earth Excav. Cu. Yds.	Emb. Sh. Waste + Loss Cu. Yds.	Earth Excav. Cu. Yds.	Emb. Sh. Waste + Loss Cu. Yds.	EXPLANATION OF CHANGES	CLASS A SODDING SQ. YDS.	STA. TO STA.	EXPLANATION OF CHANGES	CLASS A SODDING SQ. YDS.
Wbd. Jefferson Street #12									
Sheet #13	362	284	79	954					
DeTour Roadway Sheet #14	786	294							
Expressway Items Sheet #10	23,798	928	22,865						
Removing Debris from Basement Areas Sheet #9	3,714	3,714	3,303						
Manholes, Catch Basins & Sewer Trench Excavations (Including Edge Drains) Entire Project	1,557	1,557	1,162	395					
Bank Drains Entire Project	323	323	207	116					
Alterations to City Sewers	2,590	2,608	1,596						
Alterations to Water Main	204	204							
Alterations to Public Lighting	3,194	2,458							
TOTALS	36,588	1,217	35,389	10,507	255	1,537	2,820	139	1,537

TOTALS	3243	354	1727	388	4686	2081	318	378
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MISCELLANEOUS									
ITEM	AS PER PLANS	AS CONSTRUCTED	EXPLANATION OF CHANGES	AS PER PLANS	AS CONSTRUCTED	EXPLANATION OF CHANGES			
							AS PER PLANS	AS CONSTRUCTED	
BI 82111 G14 UN 30102									
Removing Trees 8" to 24" Dia. Each	2	2							
Removing Trees 24" to 36" Dia. Each	1	1							
Trimming & Finishing Earth Gradients	5	5							
Final Grading & Cleanup Sta.	14	14							
Removing 6" Dia. Track Strip...Sq. Yds.	1026	928							
Maintaining Traffic...Lump Sum	1	1							
Restoring Roadside...Acres	1	1							
Timber Curb...Lmf. 185	185	185							
Timber Curb & Snow Fence...Lmf. 635	635	635							
Removing D.S.R. Poles...Each	2	2							
Removing Existing Sewer...Lmf. 405	405	405							
BI 82111 G15 UN 30102									
Class A Seeding...Acres	1	1							
Mulching...Tons	1	1							
TOTALS	1201	1259	1465	113	1250	1485			

TOTALS	1201	1259	1465	113	1250	1485
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TOTALS	1201	1259	1465	113	1250	1485
--------	------	------	------	-----	------	------

PLAN ESTIMATE BY: \_\_\_\_\_ DATE: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DATA COMPLETED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 HISTORY CHECKED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ENTERED ON PLANS: \_\_\_\_\_ DATE: \_\_\_\_\_

BUREAU OF HIGHWAYS AND EXPRESSWAYS  
 CITY ENGINEERS OFFICE  
 DEPARTMENT OF PUBLIC WORKS  
 CITY OF DETROIT  
 PLANS PREPARED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PROJECT NO. 82111-C14  
 SHEET NO. 53  
 DATE: 12-17-1954

QUANTITY SHEET - E  
ALTERATIONS TO WATER MAINS

Capital Section  
BI 82111-C14UM  
30102

STATE MICH. PROJECT NO. 13-10720 COUNTY CITY CITY OF DETROIT  
ROUTE 82111 Wayne Detroit 59

AS PER PLANS

AS CONSTRUCTED

Unit	Total	Final Quantity	Author- System
Each	2	2	#1016
Each	5	2	#1016
Each	2	3	#1016
Each	1	1	
Each	1	5	#1016
Lin. Ft.	42	42	
Lin. Ft.	451	451	
Each	1	0	#1016
Each	1	0	#1016
Each	2	2	
Each	2	3	#1016
Lin. Ft.	73	73	
Cu. Yds.	27	0	#1016
Cu. Yd.	1	1	
EXTRAS TO THE CONTRACT BI 82111 C14			
1. Preliminary Authorization for Yellow Clay Backfill in Basement Areas Under Pavements and Sidewalks			Auth. 2001
2. Add 1-2 Way FLC Manhole			2002
3. Selected Yellow Clay Surcharge to Stabilize Abutment 'A' of the Hastings Bridge			2021
4. Reimbursement for Extra-Ordinary Expenses to Maintain Business and Fire Protection on Jefferson Ave.			2004
5. Force Account for the Removal of Encased Sewer Pipe			2005
6. Selected Yellow Clay Backfill for the Hastings Sewer Relocation Trench			2006
7. Re-Tag Public Lighting Commission Cable Maple 899-B			2007
8. First Balancing of Yellow Clay Backfill for Basement and Embankment Construction			2008
9. Force Account for Pointing-Up Sewer Pipe Joints of the New Hastings Sewer			2011
10. 1-4" Encased Conduit			2017
11. Reimbursement to Greenfield Construction Co. for Standby Assistance for Work Done by the Department of Water Supply			2009
12. Reimbursement to Sinesola Construction Co. for Standby Assistance for Work Done by the Department of Water Supply			2012
13. Inlet LD, 10' deep or less			2013
14. Delete #1-2 Way Manhole			2014
15. Final Balancing of Yellow Clay Backfill for Basement Areas and Embankment Construction			2016
16. 6" Sewer Tap			2018
EXTRAS TO THE CONTRACT BI 82111 C14			
1. 7500 IV. 2-1/2" #8 Lead Covered Street Lighting Cables			2020

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE: 9-21-62  
BY: FRED S. LAVIERO  
PROJECT NO. 13-10720  
SHEET NO. 59

**QUANTITY SHEET - E**  
**CONSTRUCTION AND RELOCATION OF CITY LIGHTING, POWER, COMMUNICATIONS AND SIGNAL FACILITIES**  
**AS PER PLANS**

AS CONSTRUCTED

Description	Central Section		Final		Total	Auth. No.
	30102	30103	30102	30103		
6" Power, 5/16" dia. Cables	220	1	220	1	369	1005 & 1063
Adding Handhole Covers - Method 1	1	1	1	1	2	
Removing Handholes	1	1	1	1	2	
Removing Wood Poles	2	2	2	2	6	
Removing Post Foundations	6	6	6	6	5	1050
Removing 1-1/2" Overhead Line	4	4	4	4	2,001	1071
Abandoning (A.C.C.) Handholes	1280	1280	1280	1280	3	
#1-3-Way Manholes	4	4	4	4	4	
Street Type "D" Handholes	2	2	2	2	2	
Sidewalk Type "D" Handholes	4	4	4	4	4	
1-3" Encased Conduit	3	3	3	3	3	
2-3" Encased Conduit	182	182	182	182	209	1005 & 1057
3-3" Encased Conduit	605	605	605	605	634	1005 & 1032
4-3" Encased Conduit	200	214	214	206	220	1053
5-3" Encased Conduit	20	20	20	20	71	1053 & 1054
9-3" Encased Conduit	80	80	80	80	108	1055
12-3" Encased Conduit	180	184	184	180	640	1057
14-3" Encased Conduit	645	90	90	645	14	1066
16-3" Encased Conduit	170	170	170	174	174	1057
18-3" Encased Conduit	35	35	35	35	35	1057
20-3" Encased Conduit	62	62	62	64	64	1057
22-3" Encased Conduit	13	13	13	14	14	1057
24-3" Encased Conduit	1280	1280	1280	2,001	2,001	1071
2-1/2" Overhead Line - Furnish and Install	110	110	110	110	110	
2-1/2" Overhead Line - Furnish and Install	100	100	100	100	100	
2500 V. 1-1/2" #2 Lead Covered Cable - Furnish and Install	1770	1770	1770	1,786	1,786	1063
2500 V. 2-1/2" #2 Lead Covered Cables - Furnish and Install	2000	2000	2,000	1,983	2,258	1063, 1064, 1065, 1066, 1067, 1068
35' Class 3 Wood Poles - Furnish and Install	6	6	6	6	7	
"E" Up Wood Pole as a Combination 2-1/2" Street Lighting and Secondary Cable Pole	7	7	7	7	7	
Traffic Signal Controller, Cabinet, Pedestal, and New Foundation - Furnish and Install	1	1	1	1	1	
Traffic Signal Controller and Cabinet - Furnish and Install on Wood Pole	1	1	1	1	1	
Two, 2-Way, 3-Section, Suspension Type Traffic Signals on Span Wire - Furnish and Install	1	1	1	1	1	
1-Way, 3-Section, Bracket Arm Traffic Signals - Furnish and Install	2	2	2	2	2	
1-Way, Bracket Arm Pedestrian Traffic Signals - Furnish and Install	1	1	1	1	1	
2-Way, Bracket Arm Traffic Signals (1-Way, 3-Section Traffic Signal and 1-Way Pedestrian Traffic Signal) - Furnish and Install	2	2	2	2	2	
2-Way, 3-Section Arm Traffic Signal and Mast Arm - Furnish and Install	3	3	3	3	3	
Flasher Signal Equipment - Furnish and Install	445	445	445	445	448	1063
600 V. 2-1/2" #2 Lead Covered Cables - Furnish and Install	217	217	217	232	232	1063
600 V. 3-1/2" #2 Lead Covered Cables - Furnish and Install	325	325	325	325	325	
600 V. 1-1/2" #2 Lead Covered Cable - Furnish and Install	1190	1190	1,190	1,194	1,194	1063
600 V. 2-1/2" #2 Lead Covered Cable - Furnish and Install	450	450	450	450	509	1063
600 V. 3-1/2" #2 Lead Covered Cables and 1-1/2" Neoprene Wire - Furnish and Install	760	1,130	1,890	986	2,082	1063 & 1064
600 V. 4-1/2" #2 Lead Covered Cables and 1-1/2" Neoprene Wire - Furnish and Install	120	120	120	129	129	1063
600 V. 2-1/2" #2 Parkway Cables and 1-1/2" Neoprene Wire - Furnish and Install	140	140	140	140	140	
600 V. 4-1/2" #2 Parkway Cables and 1-1/2" Neoprene Wire - Furnish and Install	35	35	35	35	35	
600 V. 4-1/2" #6 Lead Covered Cables - Furnish and Install	47	47	47	47	47	
U.G. Fluorescent Anchor Base Street Lighting Units on New Foundations - Furnish and Install	8	8	8	8	9	1063
U.G. Fluorescent Anchor Base Street Lighting Units - Furnish and Install on Bridge	3	3	3	3	3	
U.G. Fluorescent Anchor Base Combination Street Lighting Units on New Foundations - Furnish and Install	3	3	3	3	3	
Overhead Street Lighting Unit (500) - Furnish and Install on Wood Pole	1	1	1	1	1	
Overhead Street Lighting Unit (500) - Furnish and Install on Wood Pole and Later Remove	7	7	7	7	7	
Overhead Street Lighting Unit (500) - Furnish and Install on Wood Pole and Later Remove	1	1	1	1	1	
U.G. Street Lighting Standard and Later Remove	3	3	3	3	3	
3000 V. 1-1/2" #2 Lead Covered Cable - Furnish and Install	1770	1770	1,770	1,786	1,786	1063
Communication Cable, Plastic Jacketed, 16 Gb. (3 1/2 Pair) - Furnish and Install	620	250	870	618	868	1063
Communication Cable, Lead and Paper Covered, 16 Gb. (25 Pair) - Furnish and Install	950	950	950	923	923	1063
Communication Cable, Lead and Paper Covered, 16 Gb. (30 Pair) - Furnish and Install	130	620	750	136	743	1063 & 1064
Communication Cable, Lead and Rubber Covered, 16 Gb. (30 Pair) - Furnish and Install	130	620	750	136	743	1063 & 1064
Street Lighting Service Electrical Equipment - Furnish and Install	L.S.	L.S.	Lump Sum	Lump Sum	Lump Sum	
Underbridge Lighting Equipment - Furnish and Install	L.S.	L.S.	Lump Sum	Lump Sum	Lump Sum	
5000 V. 1-1/2" #35 MCM Lead Covered Cable - Furnish and Install	150	150	150	158	158	1063

ROUTE	STATE PROJECT NO.	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
	82251	1-75-1 (17) 51	1	1

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN STATE HIGHWAY DEPARTMENT CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

**MICHIGAN**  
**STATE HIGHWAY DEPARTMENT**  
**JOHN C. MACKIE**  
 STATE HIGHWAY COMMISSIONER

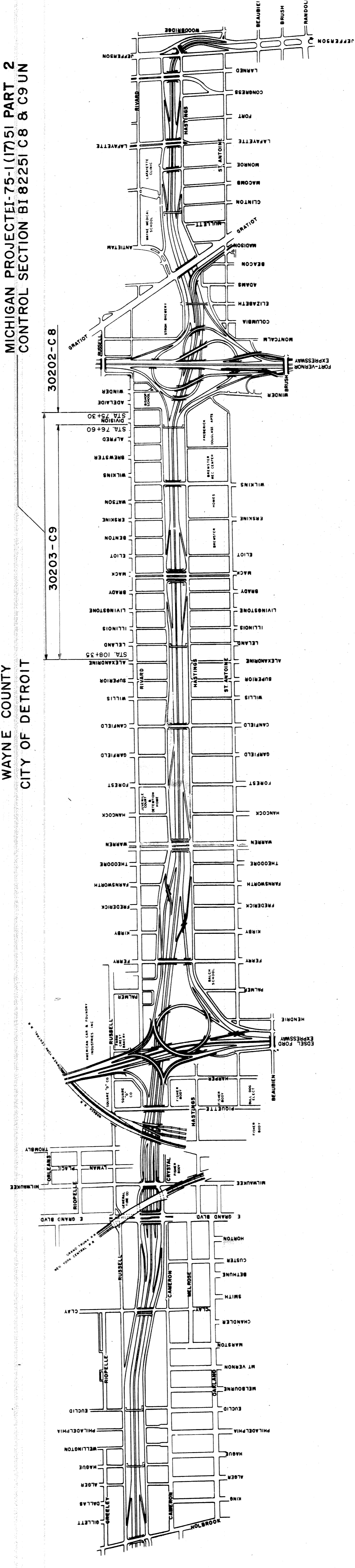
**PLANS OF PROPOSED**

**MICHIGAN PROJECT 1-75-1 (17) 51 PART 2**  
**CONTROL SECTION BI 82251 C8 UN-30203**  
**THE WALTER P. CHRYSLER EXPRESSWAY**

**INDEX OF SHEETS**  
 ALTERATIONS TO PUBLIC LIGHTING

- 1 GENERAL PLAN - UNDERGROUND CABLE
- 2-9 TRAFFIC SIGNALS
- 10-14 STREET LIGHTING TRANSFORMER ROOM
- 15 COMMUNICATION CABLE DIAGRAM
- 16 WIRING DIAGRAM
- 17-27 P.L.C. STANDARDS & SPECIAL DETAILS
- 28 QUANTITY SHEET

WAYNE COUNTY  
 CITY OF DETROIT



**ITEM NO. 230**

**CONTRACT FOR ALTERATIONS TO PUBLIC LIGHTING**

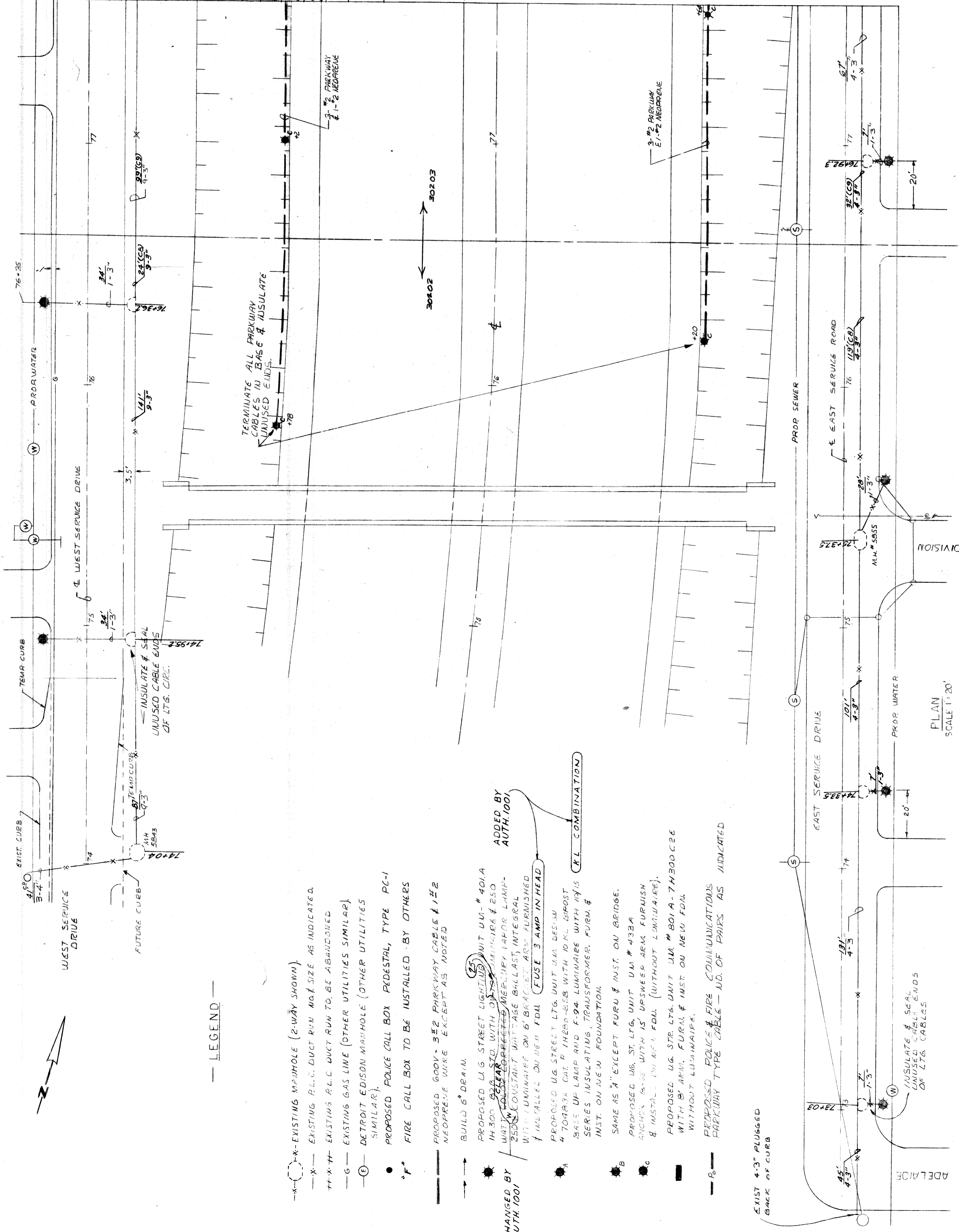
<b>DIVISION APPROVAL</b>	
CHECKED	10-28-60 DATE
RECOMMENDED FOR APPROVAL	10-28-60 DATE
RECOMMENDED FOR APPROVAL	10-28-60 DATE
ENGINEER OF BRIDGE AND ROAD DESIGN	
<b>OFFICES OF DESIGN AND CONSTRUCTION</b>	
APPROVED	10-28-60 DATE
APPROVED	10-28-60 DATE

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED	ENGINEER OF EXPRESSWAYS
APPROVED	ASSISTANT CITY ENGINEER-HIGHWAYS AND EXPRESSWAYS
APPROVED	CITY ENGINEER
APPROVED	COMMISSIONER OF PUBLIC WORKS AND EXPRESSWAY COORDINATOR

STATE HIGHWAY DEPARTMENT APPROVAL  
 JOHN C. MACKIE,  
 STATE HIGHWAY COMMISSIONER

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS  
 APPROVED  
 DIVISION ENGINEER



AS CONSTRUCTED		QUANTITIES FOR CONTROL # 30203	
PART	AMOUNT	ITEM	AMOUNT
198 L.F.	200 L.I.F. FT	600V. 3-1/2" L.C. # 1-#2 NEOPRENE CABLES FURNISH & INSTALL	NON-PART.
15 L.F.	16 L.I.F. FT	600V. 2-1/2" L.C. # 1-#2 NEOPRENE CABLES FURNISH & INSTALL	NON-PART.
20 L.F.	20 L.I.F. FT	600V. 3-1/2" ST. L.T.G. PARKWAY CABLE # 1-#2 NEOPRENE FURNISH & INSTALL	NON-PART.
1 EACH	1 EACH	SERVICE RD. U.G. ST. L.T.G. UNITS FURNISH & INSTALL ON NEW FDN.	NON-PART.
2 EACH	2 EACH	DEPRESSED ROADWAY U.G. ST. L.T.G. UNIT FURNISH & INSTALL WITHOUT LUMINAIRE ON NEW FDN.	PART.
QUANTITIES FOR CONTROL # 30202			
530 L.F.	530 L.I.F. FT	600V. 3-1/2" L.C. # 1-#2 NEOPRENE CABLES - FURNISH & INSTALL	NON-PART.
150 L.F.	147 L.I.F. FT	600V. 2-1/2" L.C. # 1-#2 NEOPRENE CABLES - FURNISH & INSTALL	NON-PART.
5 EACH	5 EACH	600V. 3-1/2" ST. L.T.G. PARKWAY CABLE # 1-#2 NEOPRENE CABLE - FURNISH & INSTALL	NON-PART.
2 EACH	2 EACH	SERVICE RD. U.G. ST. L.T.G. UNITS FURNISH & INSTALL ON NEW FOUNDATIONS.	NON-PART.
2 EACH	2 EACH	DEPRESSED ROADWAY U.G. ST. L.T.G. UNIT FURNISH & INSTALL WITHOUT LUMINAIRE ON NEW FOUNDATION.	PART.

MATCH LINE A-A SHEET 2

GENERAL NOTE

1. INSTALL ALL LIGHTS AT INTERSECTIONS AT END OF CURB RADIUS UNLESS OTHERWISE SPECIFIED.
2. A LOOP OF APPROX. 30" OF PARKWAY FEEDER CABLE AND 15" OF NEUTRAL WIRE SHALL BE COILED IN THE BASE OF EACH DEPRESSED ROADWAY AND RAMP ST. L.T.G. STD. AND PAYMENT SHALL BE INCIDENTAL TO THE ITEM FOR FURNISHING AND INSTALLING 600 VOLT PARKWAY CABLE

ADDED BY AUTH. 1001

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
GENERAL PLAN  
ADELAIDE TO ALEXANDRINE

FILE NO. 58-3A  
DRAWN BY D.E.H.  
APPROVED BY SHEET NO. 1 OF 15  
APPROVED BY DATE 9-23-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

82251-C889

LEGEND

- X- EXISTING MANHOLE (2-WAY SHOWN)
- X- EXISTING R.L.C. DUCT RUN NO. SIZE AS INDICATED.
- X- EXISTING R.L.C. DUCT RUN TO BE ABANDONED
- G- EXISTING GAS LINE (OTHER UTILITIES SIMILAR)
- G- EXISTING EDISON MANHOLE (OTHER UTILITIES SIMILAR)
- PROPOSED POLICE CALL BOX PEDESTAL, TYPE PC-1
- FIRE CALL BOX TO BE INSTALLED BY OTHERS
- PROPOSED 600V. 3-1/2" PARKWAY CABLE # 1-#2 NEOPRENE WIRE EXCEPT AS NOTED
- BUILD 6" DRAIN.
- PROPOSED U.G. STREET LIGHTING UNIT U.M. # 401A WITH 14300 BELLEROS WITH 15" LUMINAIRE # 250 WITH 15" CONSTANT VOLTAGE BALLAST INTEGRAL WITH LUMINAIRE ON 6" BRACKET ARM FURNISHED & INSTALLED ON NEW FDN. (FUSE 3 AMP IN HEAD)
- PROPOSED U.G. STREET L.T.G. UNIT U.M. DESIGN # 704834 CH. H. THERO-528 WITH 10 K.L. BIPOST BASE UP LAMP AND F-94 LUMINAIRE WITH 1015 SERIES INSULATING TRANSFORMER. FURN. & INST. ON NEW FOUNDATION.
- SAME AS "A" EXCEPT FURN. & INST. ON BRIDGE.
- PROPOSED U.G. ST. L.T.G. UNIT U.M. # 433A ANCHOR. 65-38 WITH 15" UPSWEEP ARM FURNISH & INSTALL ON NEW FDN. (WITHOUT LUMINAIRE).
- PROPOSED U.G. ST. L.T.G. UNIT U.M. # 801A-7H300C2E WITH 5" ARM. FURN. & INST. ON NEW FDN. WITHOUT LUMINAIRE.
- PROPOSED POLICE & FIRE COMMUNICATIONS PARKWAY TYPE CABLE - NO. OF PAIRS AS INDICATED

ADDED BY AUTH. 1001

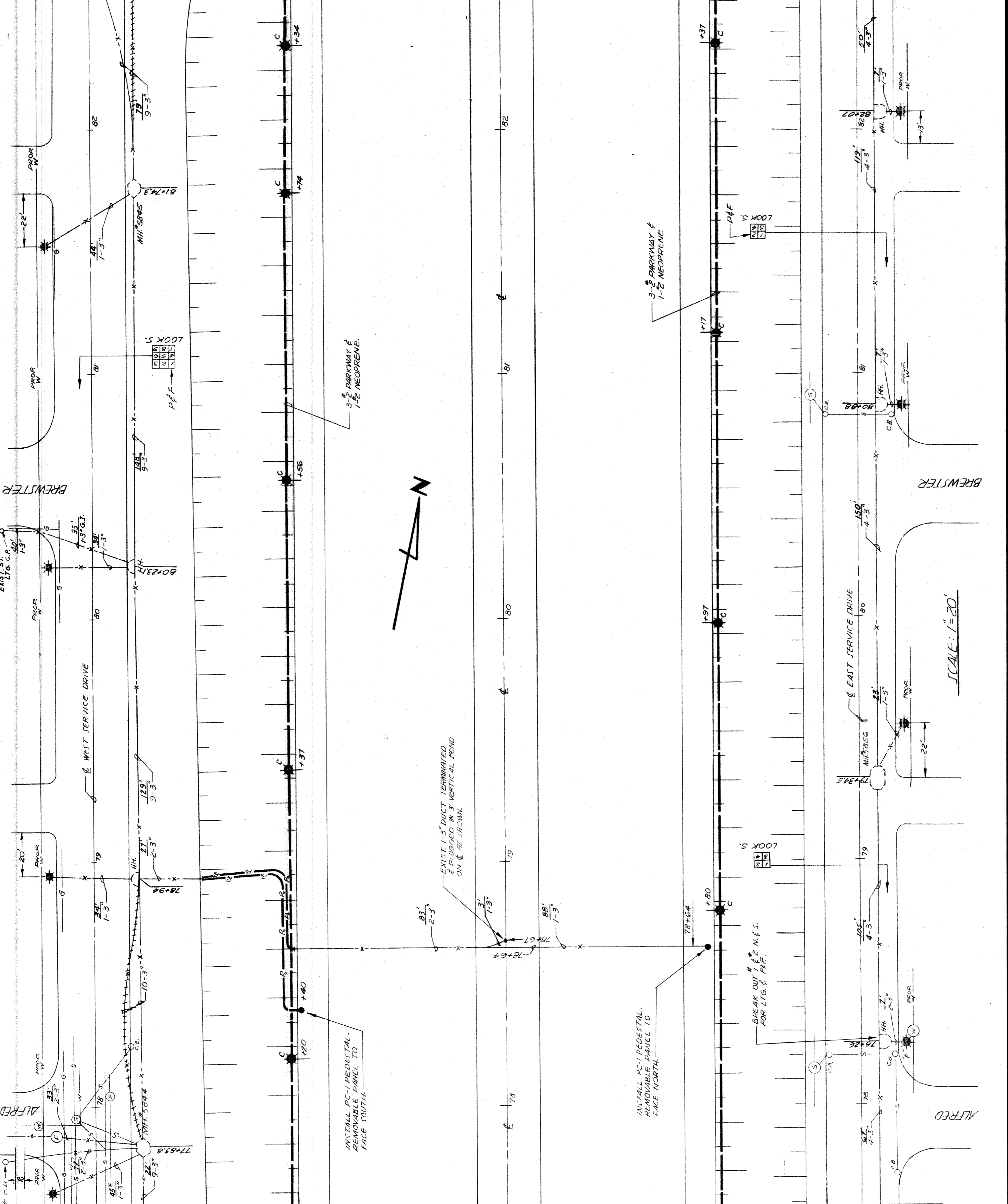
XL COMBINATION

PLAN SCALE 1" = 20'

ADELAIDE

CONST. NO.	ITEM	QUANTITIES THIS SHEET	AMOUNT
A3	CONCRETE CURB		
86MH	SERVICE ROAD U.G. ST. L.T.G. UNITS - FURNISH & INSTALL ON NEW FOUNDATION	8	8 EACH
9EACH	DE-PAVEMENT ROAD U.G. ST. L.T.G. UNITS - FURNISH & INSTALL WITHOUT LUMINAIRE ON NEW FOUNDATION	9	9 EACH
9EACH	POLICE CALL BOX PEDESTAL, TYPE PC-1 - FURNISH & INSTALL	2	2 EACH
730LF	POLICE & FIRE COMMUNICATIONS PARKWAY TYPE 6 PAR. CABLE - FURNISH & INSTALL	730	730 LIN. FT.
108LF	600V. 3-1/2" L.C. 1-2" NEOPRENE SEC. ST. L.T.G. CABLES - FURNISH & INSTALL	108	108 LIN. FT.
108LF	600V. 2-1/2" L.C. 1-2" NEOPRENE ST. L.T.G. CABLES - FURNISH & INSTALL	108	108 LIN. FT.
245LF	600V. 2-1/2" L.C. 1-2" NEOPRENE ST. L.T.G. CABLES - FURNISH & INSTALL	245	245 LIN. FT.

MATCH LINE B-B SHEET 3



MATCH LINE A-A SHEET 1

**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**  
**GENERAL PLAN**  
**ADELAIDE TO ALEXANDRINE**  
**MICHIGAN STATE HIGHWAY DEPARTMENT**  
**WALTER P. CHRYSLER EXPRESSWAY**

DRAWN BY: D.E.H. FILE NO. 58-3A  
 APPR. BY: DATE  
 SHEET NO. 2 OF 15  
 DATE 9-23-60

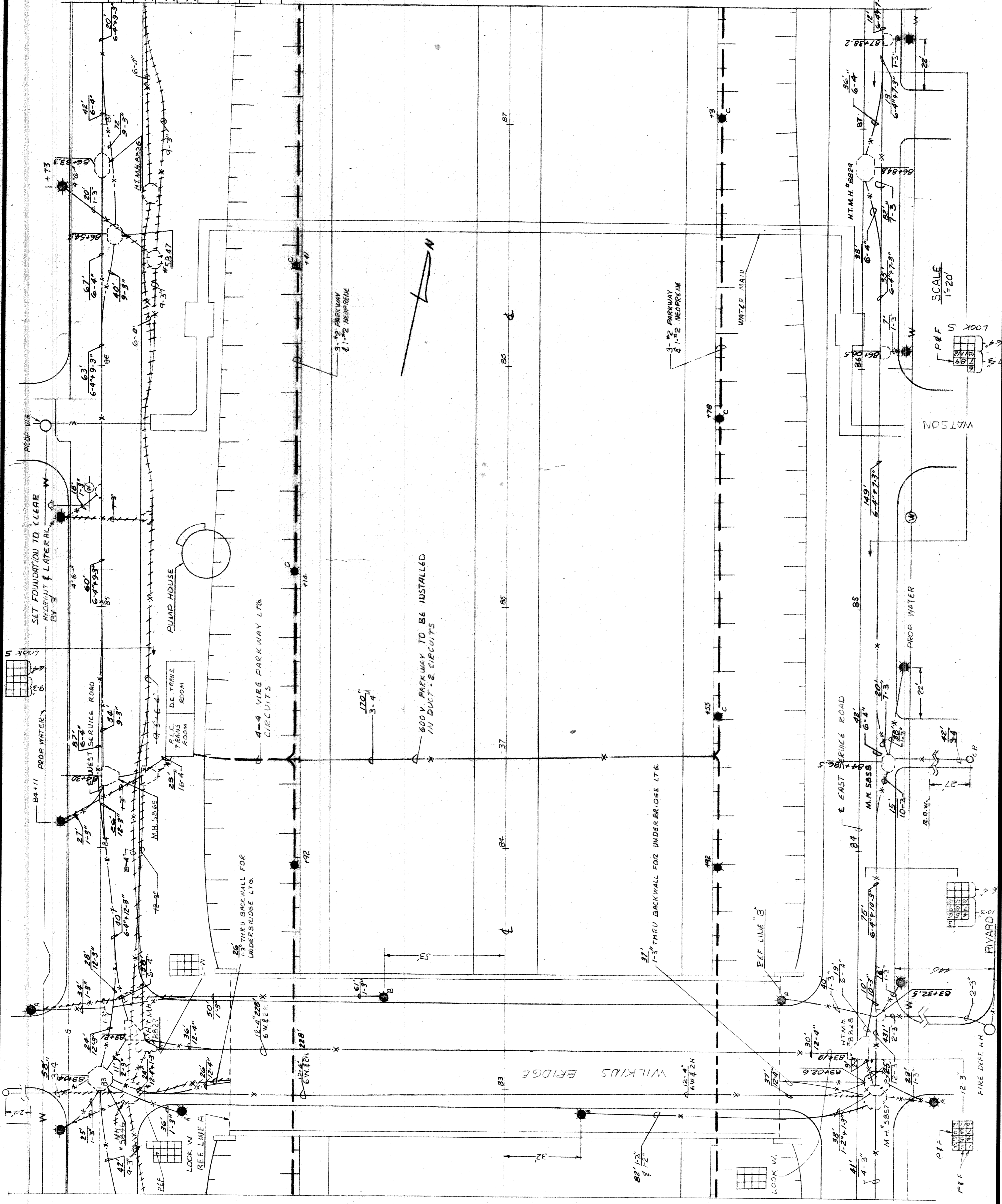
NO.	REVISIONS	DATE	BY

82251-C889

REVISIONS

AS CONSTRUCTED	NON-PART	ITEM	AMOUNT
AVH 1004	2046LF	600 V 3-1/2" 2 L.C. CABLE & 1" 2 NEOPRENE WIRE FURNISH & INSTALL	2009 UNIT NON-PART
AVH 1004	1567LF	600 V 3" 2 PARKWAY CABLE & 1" 2 NEOPRENE WIRE FURNISH & INSTALL	1550 UNIT NON-PART
AVH 1004	222LF	600 V 2-1/2" 2 L.C. & 1" 2 NEOPRENE SEC. ST. LTG. CABLES, FURNISH & INSTALL	277 UNIT NON-PART
7EACH	8EACH	SERVICE RD. U.G. ST. LTG. UNITS, FURNISH & INSTALL ON NEW FDN.	8 EACH NON-PART
7EACH	7EACH	DEPRESSED RD. U.G. ST. LTG. UNITS, FURNISH & INSTALL ON NEW FDN. W/ LUMI	7 EACH NON-PART
2EACH	2EACH	INCANDESCENT U.G. ST. LTG. UNITS, FURNISH & INSTALL ON BRIDGE	2 EACH NON-PART
4EACH	4EACH	INCANDESCENT U.G. ST. LTG. UNITS, FURNISH & INSTALL ON NEW FDN.	4 EACH NON-PART

MATCH LINE A-A SHEET 4



MATCH LINE B-B SHEET 2

**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**

**GENERAL PLAN**  
**ADELAIDE TO ALEXANDRINE**

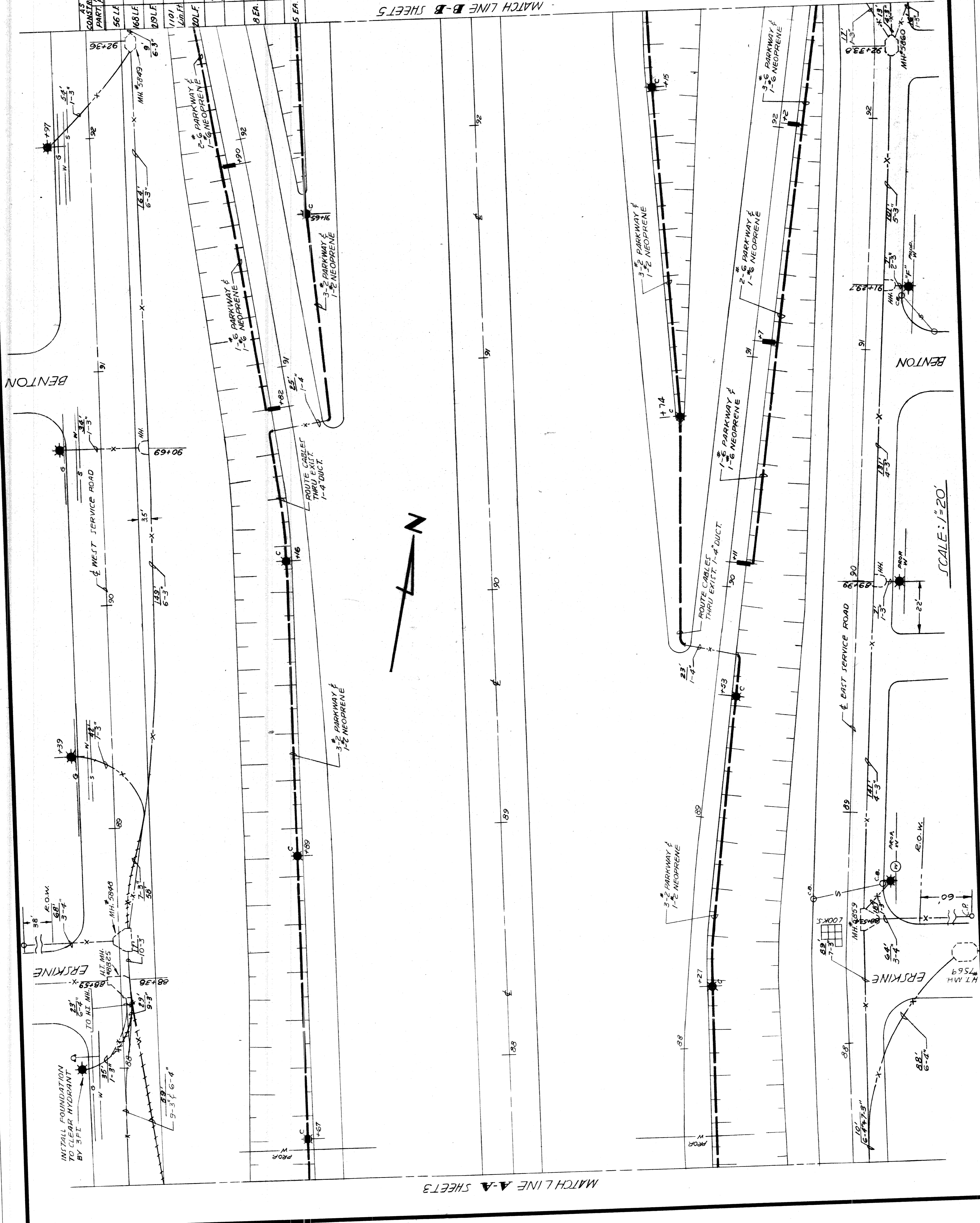
**MICHIGAN STATE HIGHWAY DEPARTMENT**  
**WALTER P. CHRYSLER EXPRESSWAY**

DRAWN BY: D.E.H. FILE NO. 58-3A  
 APPROVED BY: [Signature] SHEET NO. 3 OF 15  
 APPROVED BY: [Signature] DATE 9-23-60

NO.	DATE	DESCRIPTION

82251-C889





CONSTANT	QUANTITIES THIS SHEET	AMOUNT
AS PART	ITEM	
56 LF	600V, 3-1/2" ST. LIG. PARKWAY CABLE & 1-2" NEOPRENE - FURNISH & INSTALL	52 LIN. FT. PART
168 LF	600V, 2-1/2" ST. LIG. PARKWAY CABLE & 1-2" NEOPRENE - FURNISH & INSTALL	168 LIN. FT. PART
109 LF	600V, 1-1/2" ST. LIG. PARKWAY CABLE & 1-2" NEOPRENE - FURNISH & INSTALL	219 LIN. FT. PART
110 LF	600V, 3-1/2" L.C. & 1-2" NEOPRENE SEC. ST. LIG. CABLES - FURNISH & INSTALL	107 1/2 LIN. FT. PART
1026 LF	600V, 3-1/2" L.C. & 1-2" NEOPRENE SEC. ST. LIG. CABLE - FURNISH & INSTALL	24 LIN. FT. PART
955 LF	600V, 2-1/2" L.C. & 1-2" NEOPRENE SEC. ST. LIG. CABLE - FURNISH & INSTALL	1027 1/2 LIN. FT. PART
7EA.	SERVICE ROAD UG. ST. LIG. UNITS - FURNISH & INSTALL WITHOUT LUMINAIRES ON NEW FOUNDATIONS	7 EACH PART
5 EA.	RAMP UG. ST. LIG. UNITS - FURNISH & INSTALL WITHOUT LUMINAIRES ON NEW FOUNDATIONS	5 EACH PART

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
GENERAL PLAN  
ADELAIDE TO ALEXANDRINE

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P CHRYSLER EXPRESSWAY

DRAWN BY FILE NO.  
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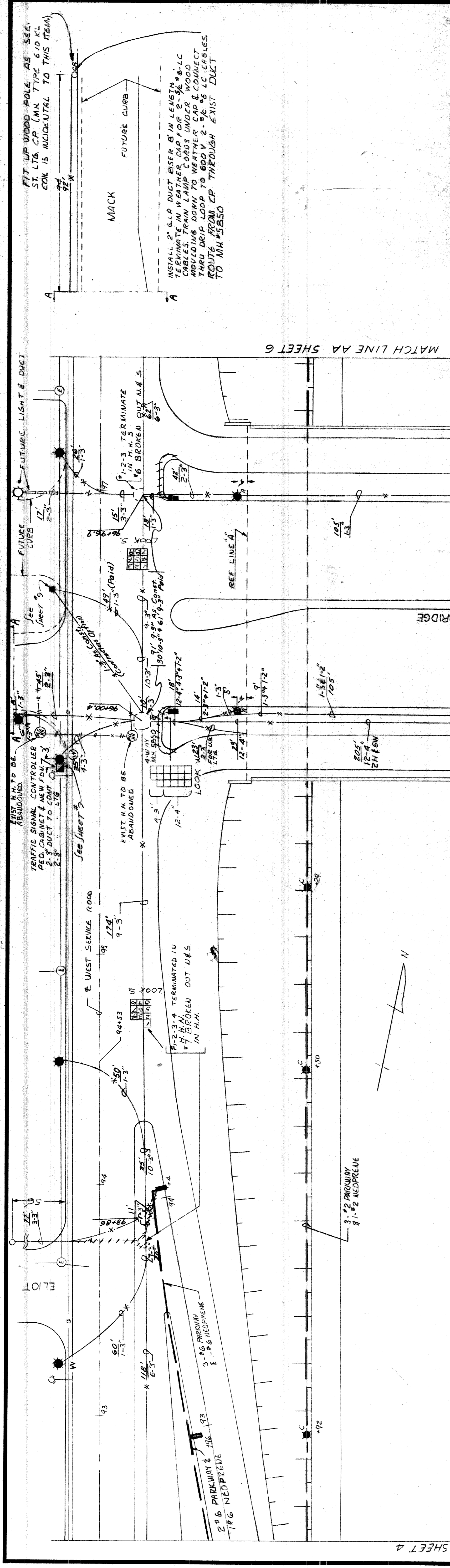
APPROVED BY SHEET NO.  
4 OF 15

APPROVED BY DATE  
9-23-60

82251-C889

REVISIONS

NO.	DATE	BY	DESCRIPTION



MATCH LINE B-B SHEET 4

CONTRACTOR PART	ITEM	QUANTITIES THIS SHEET	AMOUNT
1042	600V 3/2 ST. LTB. PKWY. CABLES #1-2		1042 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
1004/61LF	600V 3/8 ST. LTB. PKWY. CABLE #1-6		153 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
1004/66LF	600V 3/16 #6 L.C. #75 NEOP SEC. ST. LTB. CABLES. FURNISH & INSTALL		79 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
49LF	600V 2-1/2 #6 L.C. ST. LTB. SEC. CABLES FURNISH & INSTALL		49 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
1004/73LF	600V 2-1/2 #6 L.C. #75 NEOP SEC. ST. LTB. CABLE. FURNISH & INSTALL		170 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
1004/77LF	600V 2-1/2 #6 L.C. #75 NEOP SEC. ST. LTB. CABLE. FURNISH & INSTALL		375 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
1004/87	600V 3/16 #6 L.C. #75 NEOP SEC. ST. LTB. CABLE. FURNISH & INSTALL		1044 LIN. FT.
	NEOP WIRE FURNISH & INSTALL		PART
5 EACH	DEPR. RD. LIG. ST. LTB. UNIT FURNISH & INSTALL		5 EACH
	LUMINAIRE ON NEW F.O.U.		PART
9 EACH	DEPR. RD. LIG. ST. LTB. UNIT FURNISH & INSTALL		9 EACH
	SVC. RELOC. ST. LTB. UNIT FURNISH & INSTALL ON NEW F.O.U.		PART
6 EACH	HIGH. LIG. ST. LTB. UNIT FURNISH & INSTALL ON NEW F.O.U.		6 EACH
	ANCHOR US ST. LTB. UNIT FURNISH & INSTALL ON BRIDGE		PART
2 EACH	ANCHOR US ST. LTB. UNIT FURNISH & INSTALL ON BRIDGE		2 EACH
	FIT UP WOOD POLE AS SEC. ST. LTB. C.A.		PART
1 EACH	FIT UP WOOD POLE AS SEC. ST. LTB. C.A.		1 EACH

MATCH LINE A-A SHEET 6

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
GENERAL PLAN  
ADELAIDE TO ALEXANDRINE

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

FILE NO. 58-3A  
DRAWN BY D.E.H.  
APPROVED BY SHEET NO. 5 OF 15  
DATE 9-23-60

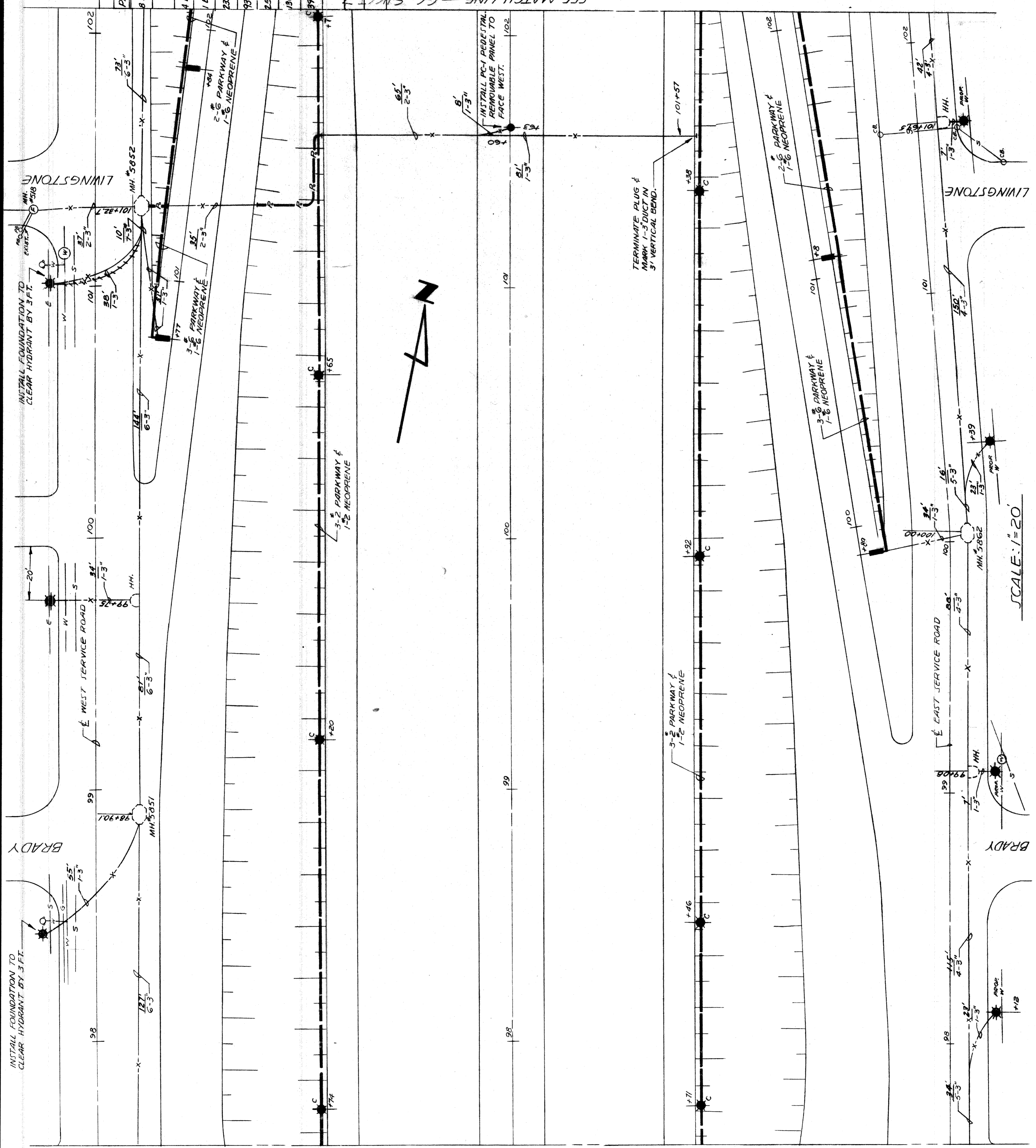
REVISIONS

DATE BY

DESCRIPTION

82251-C889





SEE MATCH LINE - AA SHEET 5

SEE MATCH LINE - CC SHEET 7

PART		QUANTITIES THIS SHEET		AS CONSTRUCTED	
NO.	DESCRIPTION	AMOUNT	ITEM	AMOUNT	PART
1	DEPRESSED ROAD U.G. ST. L.T.G. UNIT FURNISHED & INSTALLED WITHOUT LUMINAIRE ON NEW FOUNDATION	8 EACH		8 EACH	8 EACH
2	SERVICE ROAD U.G. ST. L.T.G. UNIT FURNISHED & INSTALLED ON NEW FOUNDATION	7 EACH		7 EACH	7 EACH
3	RAMP U.G. ST. L.T.G. UNIT FURNISHED & INSTALLED WITHOUT LUMINAIRE ON NEW FOUNDATION	4 EACH		4 EACH	4 EACH
4	POLICE CALL BOX PEDESTAL TYPE PC-1 FURNISH & INSTALL	1 EACH		1 EACH	1 EACH
5	P.F.F. COMMUNICATIONS CABLE - PARKWAY TYPE (6 PR) - FURNISH & INSTALL	235 L.F.		235 LIN. FT.	235 L.F.
6	600V, 3-1/2" ST. L.T.G. PARKWAY CABLE & 1-2" NEOPRENE FURNISH & INSTALL	930 LIN. FT.		930 LIN. FT.	930 L.F.
7	600V, 3-1/2" ST. L.T.G. PARKWAY CABLE & 1-2" NEOPRENE FURNISH & INSTALL	254 LIN. FT.		254 LIN. FT.	254 L.F.
8	600V, 3-1/2" ST. L.T.G. PARKWAY CABLE & 1-2" NEOPRENE FURNISH & INSTALL	130 LIN. FT.		130 LIN. FT.	130 L.F.
9	600V, 3-1/2" L.C. & 1-2" NEOPRENE SEC. ST. L.T.G. CABLES - FURNISH & INSTALL	396 LIN. FT.		396 LIN. FT.	396 L.F.
10	600V, 2-1/2" L.C. & 1-2" NEOPRENE SEC. ST. L.T.G. CABLES - FURNISH & INSTALL	117 LIN. FT.		117 LIN. FT.	117 L.F.
11	600V, 3-1/2" L.C. & 1-2" NEOPRENE SEC. ST. L.T.G. CABLES - FURNISH & INSTALL	632 LIN. FT.		632 LIN. FT.	632 L.F.
12	600V, 2-1/2" L.C. & 1-2" NEOPRENE SEC. ST. L.T.G. CABLES - FURNISH & INSTALL	177 LIN. FT.		177 LIN. FT.	177 L.F.

**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**  
**GENERAL PLAN**  
**ADELAIDE TO ALEXANDRINE**

FILE NO. 58-3A  
 SHEET NO. 6 OF 15  
 DATE 9-23-60

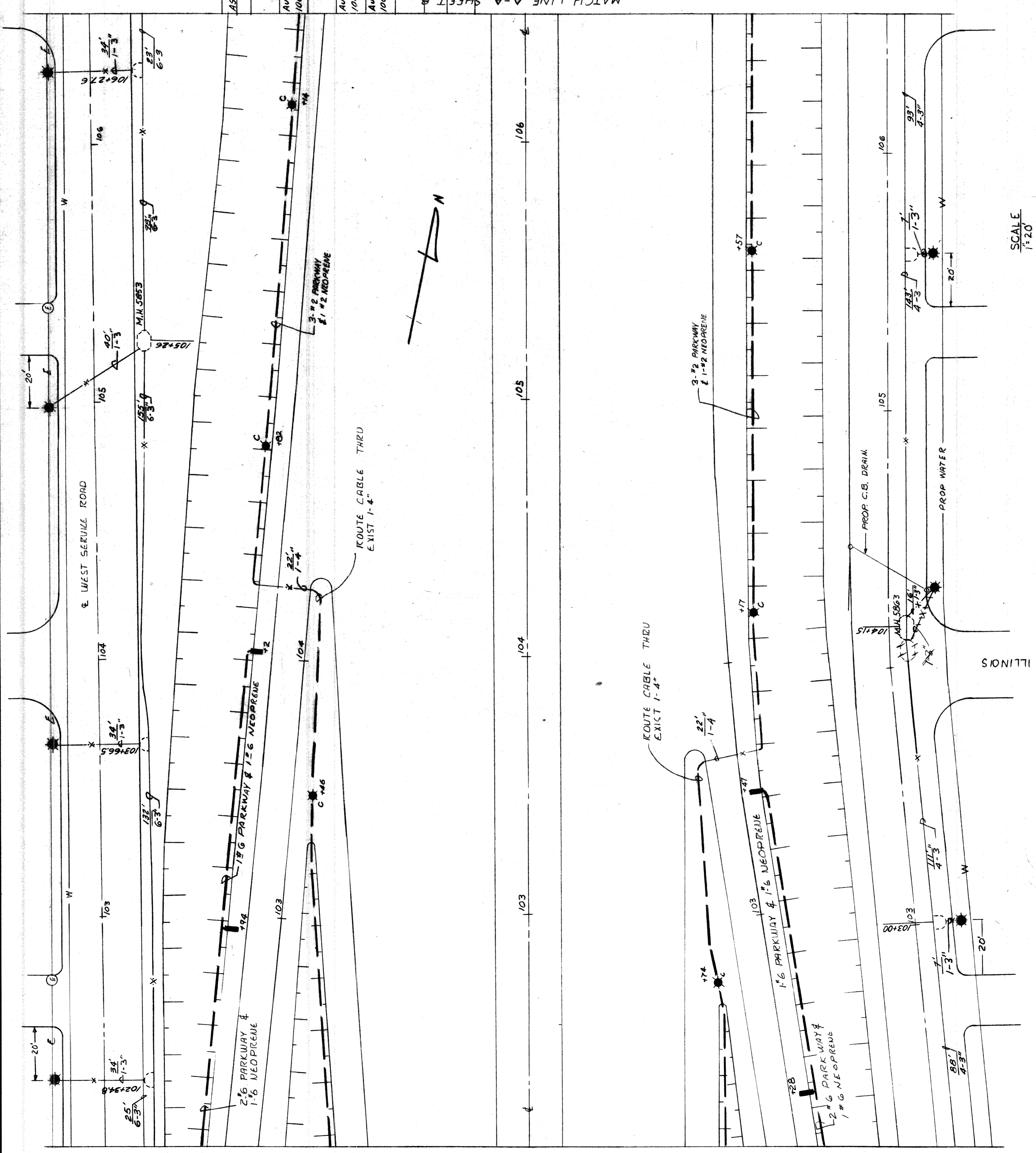
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 APPROVED BY DATE [Signature] 9-23-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
 WALTER P. CHRYSLER EXPRESSWAY

NO.	REVISIONS	DATE	BY

82251-C889

SCALE: 1" = 20'



MATCH LINE C-C SHEET 6

MATCH LINE A-A SHEET 5

**QUANTITIES THIS SHEET**

AS CONSTRUCTED PART	NOTY PART	ITEM	AMOUNT
948 LF	948 LF	600V 3-#2 STREET LTG PKWY CABLES & 1-2 NEOP WIRE FURNISH & INSTALL	948 LIN. FT.
Auth 1004	244 LF	600V 1-#6 ST LTG PKWY CABLE & 1-#6 NEOP WIRE FURNISH & INSTALL	244 LIN. FT.
Auth 1004	115 LF	600V 2-#6 ST LTG PKWY CABLES & 1-#6 NEOP WIRE FURNISH & INSTALL	115 LIN. FT.
Auth 1004	894 LF	600V 3-#6 LC & 1-#6 NEOP SEC. STR. LTG. CABLES. FURNISH & INST.	894 LIN. FT.
Auth 1004	237 LF	600V 2-#6 LC & 1-#6 NEOP SEC. ST. LTG. CABLE. FURNISH & INST.	237 LIN. FT.
6 EACH	6 EACH	DEPR. ROADWAY U.G. ST. LTG. UNIT-FURN. & INSTALL WITHOUT LUMINAIRE ON NEW FDM.	6 EACH
7 EACH	7 EACH	SERVICE RD U.G. ST. LTG. UNITS. FURNISH & INSTALL ON NEW FDM.	7 EACH
4 EACH	4 EACH	RAMP U.G. ST. LTG. UNIT FURN. & INSTALL WITHOUT LUMINAIRE ON NEW FDM.	4 EACH

**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**  
**GENERAL PLAN**  
**ADELAIDE TO ALEXANDRINE**  
**MICHIGAN STATE HIGHWAY DEPARTMENT**  
**WALTER P. CHRYSLER EXPRESSWAY**

DRAWN BY  
**DE.H**

FILE NO  
**58-3A**

APPROVED BY  
*[Signature]*

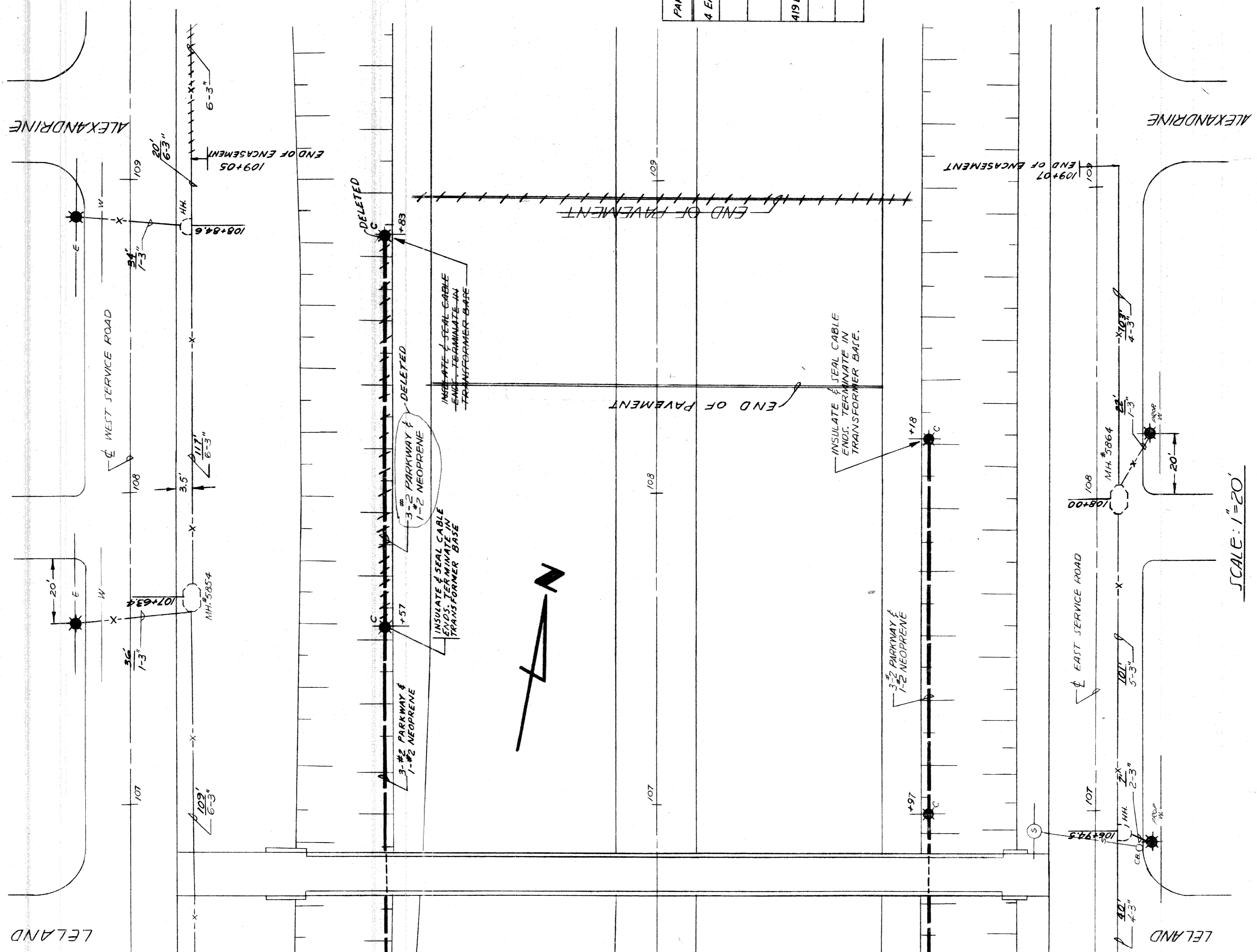
SHEET NO  
**7 OF 15**

APPROVED BY DATE  
*[Signature]* **9-23-60**

**82251-C8&9**

NO.	REVISIONS	DATE	BY

SCALE  
1" = 20'



SEE MATCHLINE - AA SHEET 7

SCALE: 1"=20'

NOM. PART	QUANTITIES THIS SHEET	ITEM	AMOUNT	AS CONSTRUCTED	
				PART	AMOUNT
4 EA.		DEPRECEATED ROADWAY U.G. ST. LTG. UNIT - FURNISH & INSTALL WITHOUT LUMINAIRE ON NEW FOUNDATION	4 EACH	3 EACH	AUTH. 100*
4 EA.		SERVICE ROAD U.G. ST. LTG. UNIT - FURNISH & INSTALL ON NEW FOUNDATION	4 EACH		4 EACH
419 LF		600V, 3-#2 ST. LTG. PARKWAY CABLE & 1-#2 NEOPRENE FURNISH & INSTALL	419 L.F.	286 L.F.	AUTH. 1004
410 LF		600V, 3-#2 L.C. & 1-#2 NEOPRENE SEC. ST. LTG. CABLES - FURNISH & INSTALL	410 L.F.		AUTH. 1004
131 LF		600V, 2-#2 L.C. & 1-#2 NEOPRENE SEC. ST. LTG. CABLE - FURNISH & INSTALL	131 L.F.		AUTH. 1004

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
GENERAL PLAN  
ADELAIDE TO ALEXANDRINE

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

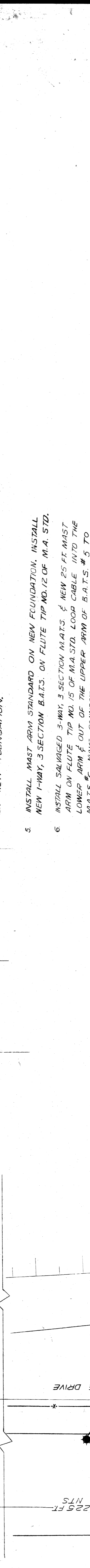
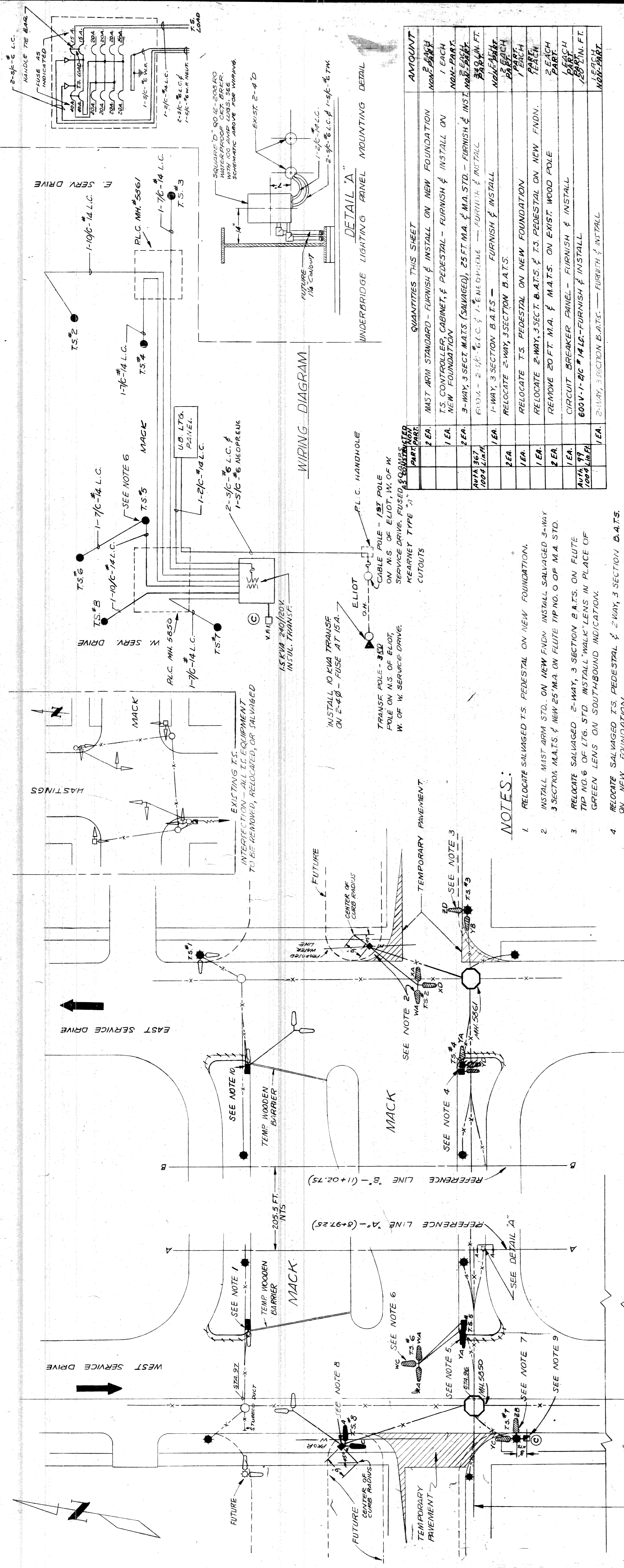
DRAWN BY: L.M.  
FILE NO.: 58-3A

APPROVED BY: [Signature]  
SHEET NO.: 8 OF 15

APPROVED BY DATE: [Signature] 9-23-60

NO.	REVISIONS	DESCRIPTION	DATE	BY

82251-C889



**CITY OF DETROIT**  
**PUBLIC LIGHTING COMMISSION**  
TRAFFIC SIGNALS  
ADELAIDE TO ALEXANDRINE

FILE NO. 58-3A  
DRAWN BY LAM  
CHECKED BY [Signature]  
APPROVED BY [Signature] DATE 9-23-60

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
(WALTER P. CHRYSLER EXPRESSWAY)

APPROVED [Signature] CHIEF BRIDGE DRAFTSMAN  
APPROVED [Signature] ENGINEER OF BRIDGE DESIGN  
APPROVED [Signature] BRIDGE ENGINEER

82251-C889

BILL OF MATERIAL

QUANT.	ITEM	
2	A	3 1/2 KVA, 2400X480V, 13 1/2" x 27 1/2" TRANSF.
1	B	75 KVA, 2400X480-240/480V, 18" TRANSF.
16	C	25 MVA, 4.16 KV, 600 A, 0.C.B. (4 POLE)
20	D	400A, 72 KV, DISC. SW, 5R ST. FRONT CONNECTED
4	E	4 1/2" x 2 1/2" TRANSITE BARRIER
20	F	1 1/2" x 2 1/2" SIGN (SEE SIGN DETAILS THIS SHEET)
1/4-0"	G	TRANSITE BARRIER MOUNTING
6	H	1 1/2" x 1 1/2" WOOD SPACER
4	I	200 A, 5.2 KV, EXTRA HEAVY DUTY CUTOUT'S
4	J	300/5A, 6.7 KV, C.T.'S
2	K	3/8" x 10" FLAT DIVERGENT CAPNUT POTHEAD (NON-FERROUS BODY)
2	L	3/8" x 10" FLAT DIVERGENT CAPNUT POTHEAD
2	M	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	N	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	O	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	P	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	Q	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	R	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	S	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	T	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	U	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
2	V	1/2" x 2 1/2" x 500A, CAPNUT POTHEAD
140'	W	MISC. RIGID CONDUIT PIPE
14	X	1/4" STD. BLACK IRON PIPE
24	Y	FLOOR FLANGE FOR 1/4" PIPE (THREADLESS)
5	Z	TEE FITTING FOR 1/4" PIPE (THREADLESS)
5	AA	5 WAY FITTING FOR 1/4" PIPE (THREADLESS)
10	AB	CROSS FITTING FOR 1/4" PIPE (THREADLESS)
10	AC	CHANNEL IRON
5	AD	CHANNEL IRON
5	AE	CHANNEL IRON
1	AF	1" x 1/2" x 1/2" WIRE
1	AG	RHW 500 V WIRE
1	AH	1/4" x 1/2" x 1/2" WIRE
1	AI	7/8" x 1/2" x 1/2" WIRE
1	AJ	POTENTIAL TRANSITE FUSE BLOCK (ON BACK OF PANELS)
1	AK	3 KVA, 480-120/240V DEY TYPE TRANSF.
1	AL	100A, 2-POLE 480V SAFETY SW
1	AM	100A, 2-POLE 50A SAFETY SW
1	AN	MANUAL TO AUTOMATIC TRANSFER SW
1	AO	DIRECTIONAL OVERCURRENT CIRCUIT-OPENING RELAY
1	AP	NEON LAMP NE-40 3WATTS
1	AQ	3 1/2" x 2" CARB HOLDER
1	AR	HOOK STICK AND RACK
1	AS	OUTLET BOX 3 GANG WITH 2 SWITCHES & DUPLEX RECEPTACLE
1	AT	4 X 4" OCT. BOX WITH KEYLESS PORC. LAMP HOLDER 100W LAMP
1	AU	V-SERIES FIXTURE WITH KEYLESS PORC. LAMP HOLDER 100W LAMP
1	AV	4 X 4" OCT. JUNCTION BOX WITH GUARD & HALF SHADE, WEATHERPROOF
1	AW	CONDUIT FITTINGS
1	AX	1 1/2" x 1 1/2" ANGLE IRON (TRANSITE BARRIER MOUNTING ON CHANNEL)
1	AY	4 1/2" x 1 1/2" x 3/8" BOX
1	AZ	BREAKER SWITCH PANEL
1	BA	SAFETY SWITCH
1	BB	MAGNETIC CONTACTOR
1	BC	UNIVERSAL RELAY
1	BD	UNIVERSAL CURRENT RELAY
1	BE	SERIES TRANSFORMER
1	BF	TIME CLOCK
1	BG	INDICATING LAMP
1	BH	PUSH BUTTON
1	BI	TERMINAL BLOCK
1	BJ	PANEL BOX
1	BK	LAY-IN SQUARE DUCT
1	BL	JUNCTION BOX
1	BM	SERIES COIL, MANHOLE TYPE, 1000/2500 LUMEN, 6-6/6 AMP.
1	BN	INDICATING LAMP

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION

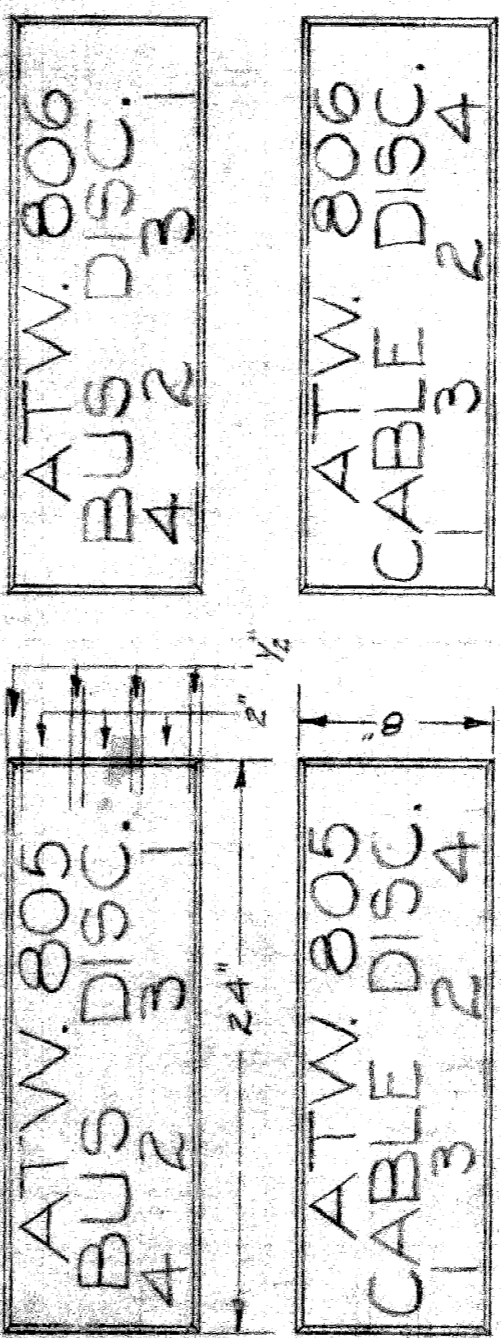
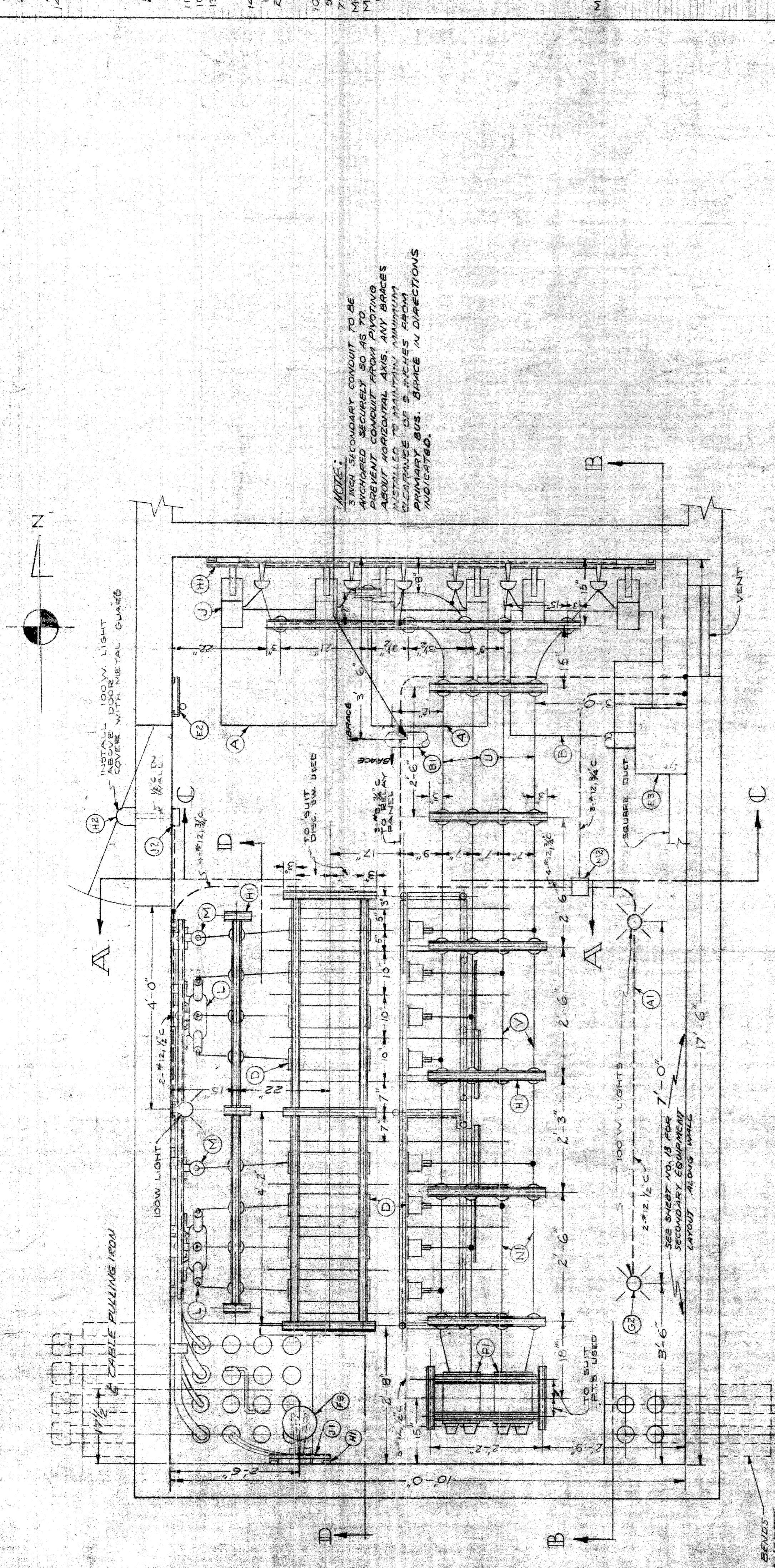
STREET LIGHTING TRANSFORMER ROOM  
(WATSON & WEST SERVICE DRIVE)

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY  
(ADELAIDE TO ALEXANDRINE)

DRAWN BY	H. C.	FILE NO.	58-3A
CHKD. BY	APL	SHEET NO.	10 OF 15
APPROVED BY	DATE	DATE	9-23-60

NO.	REVISIONS	DATE	BY

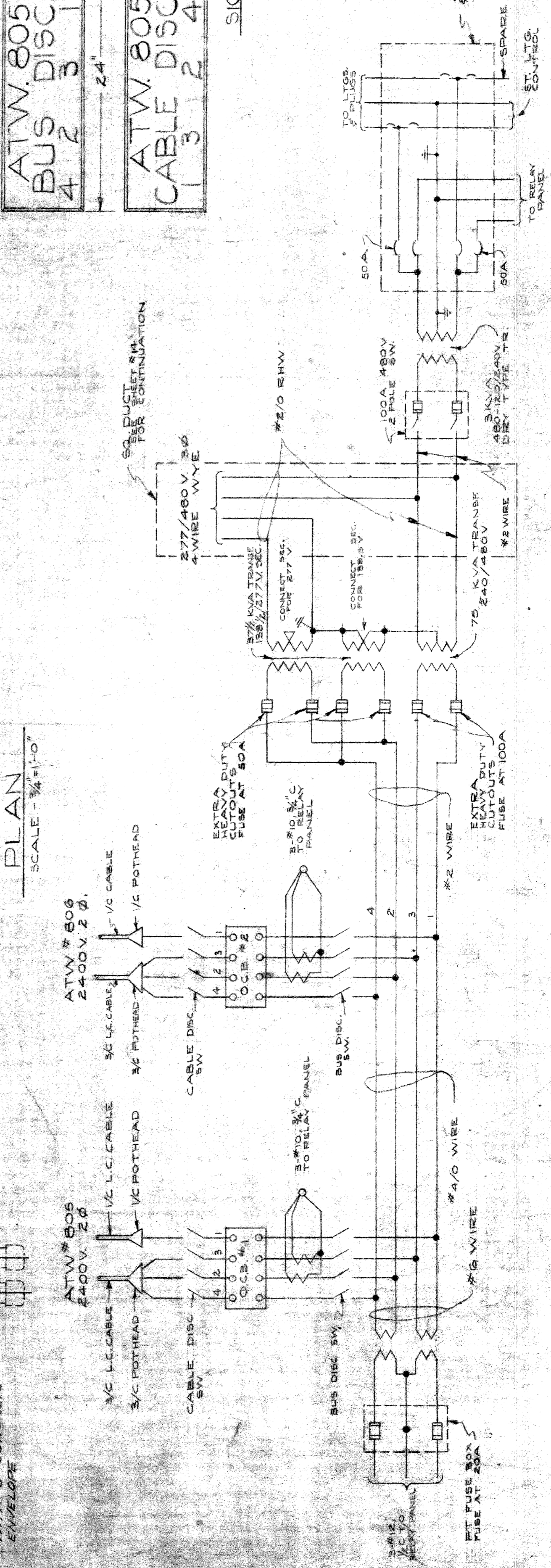
82251-C88.9



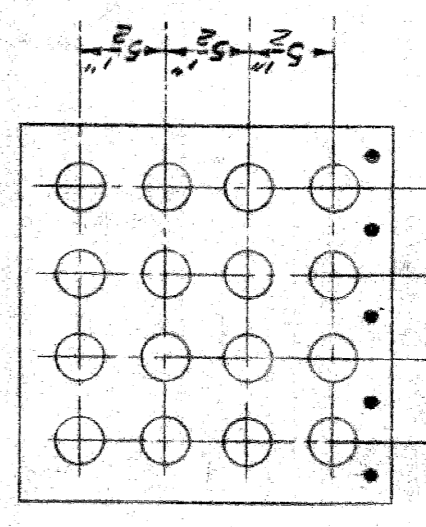
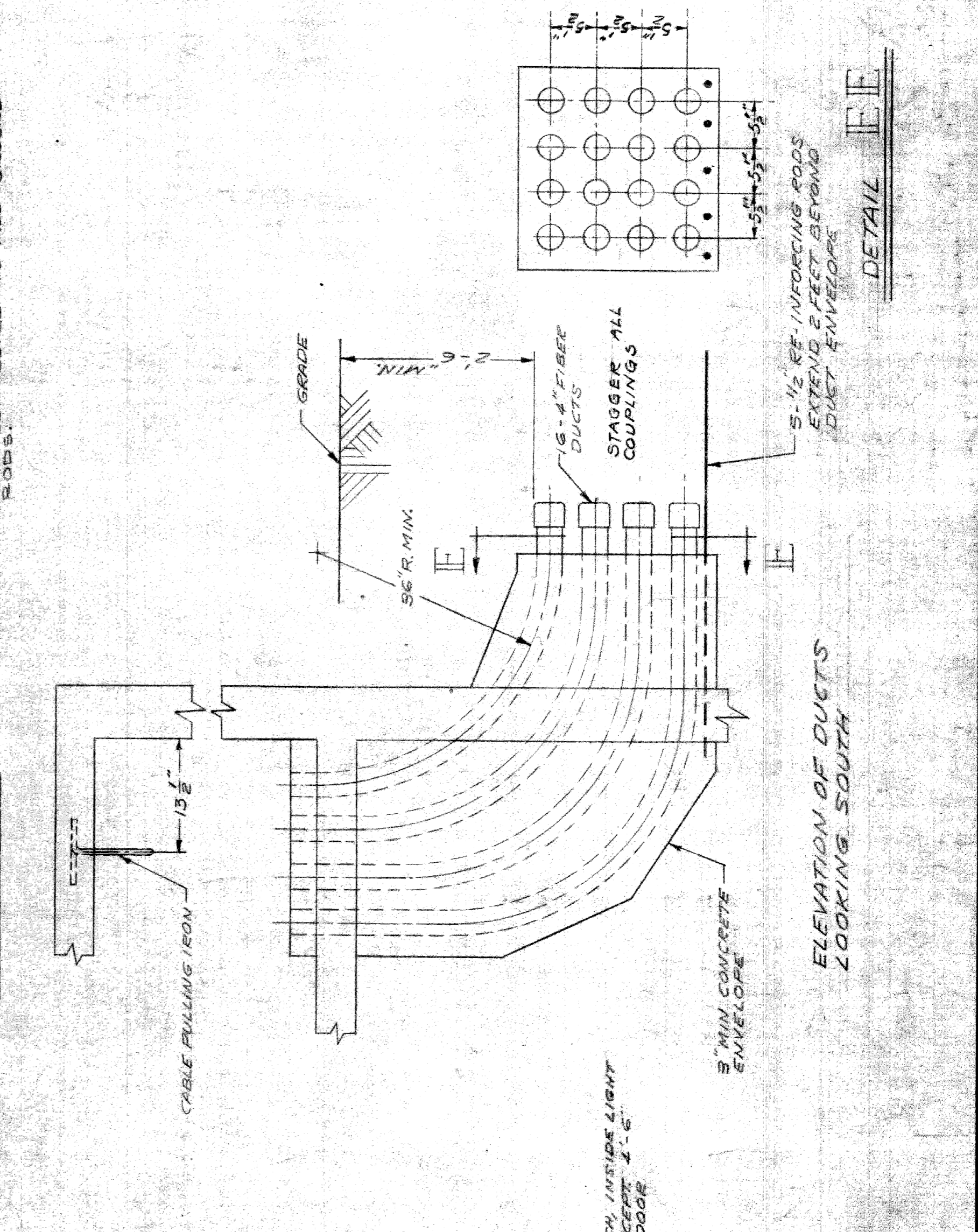
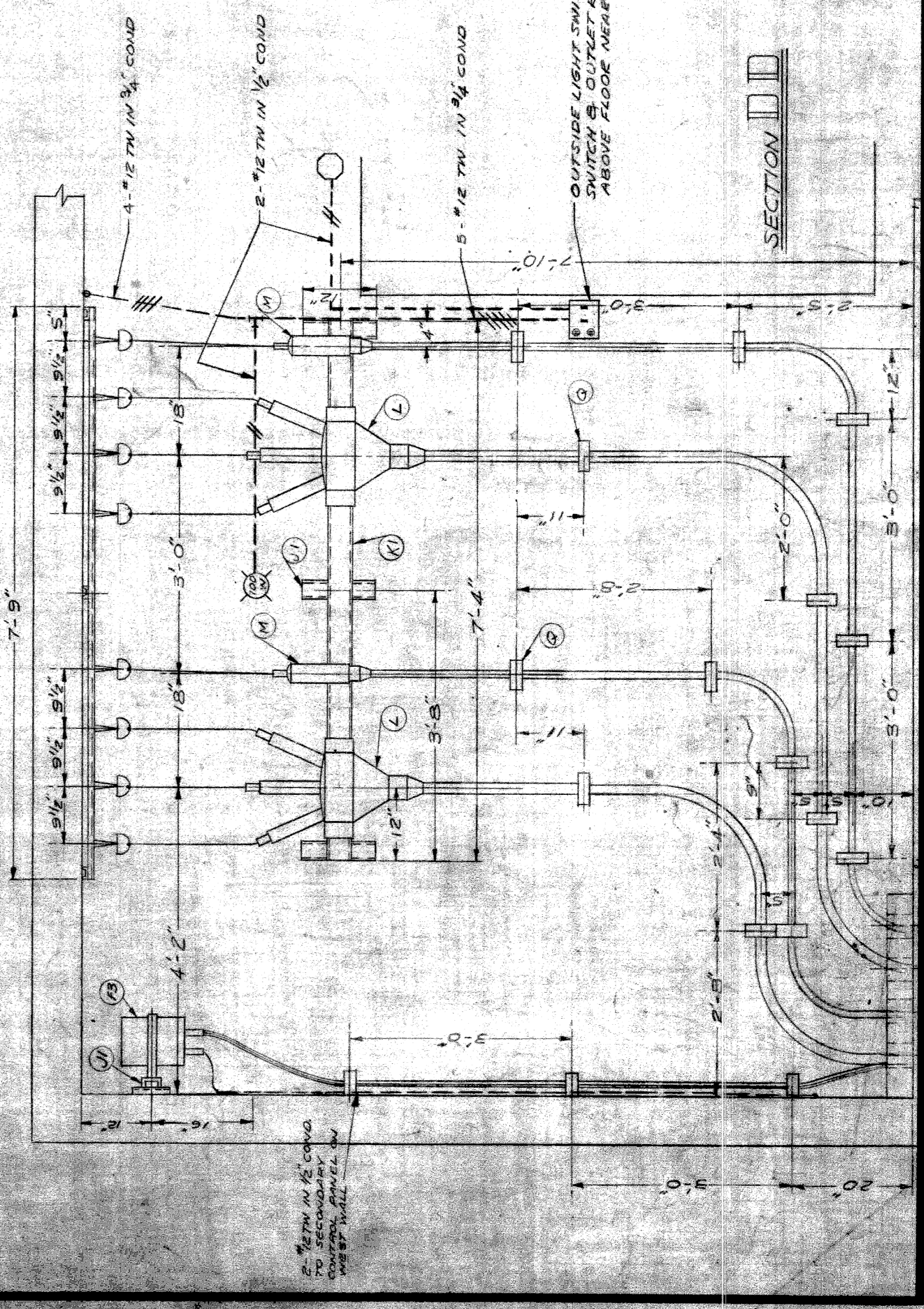
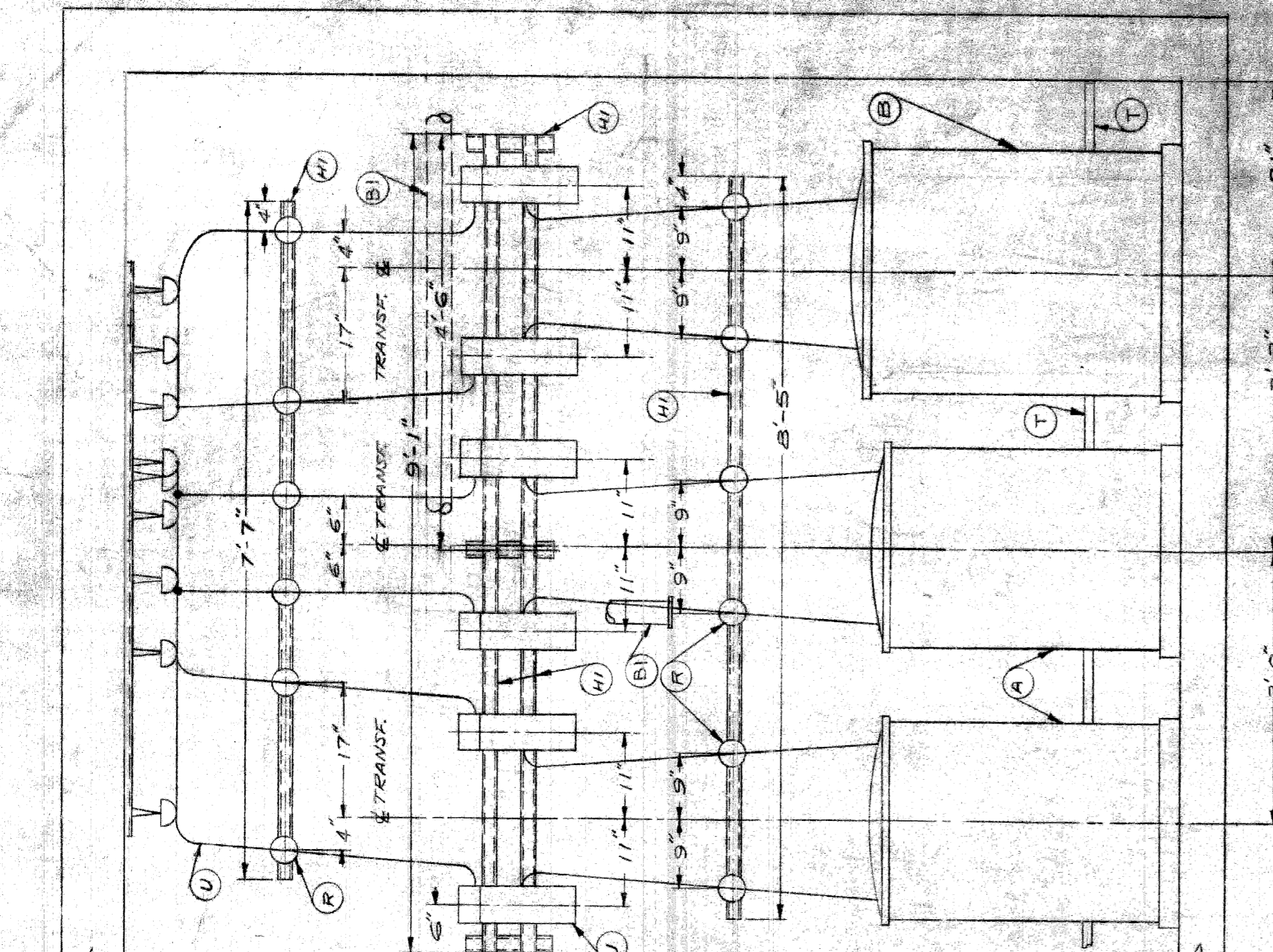
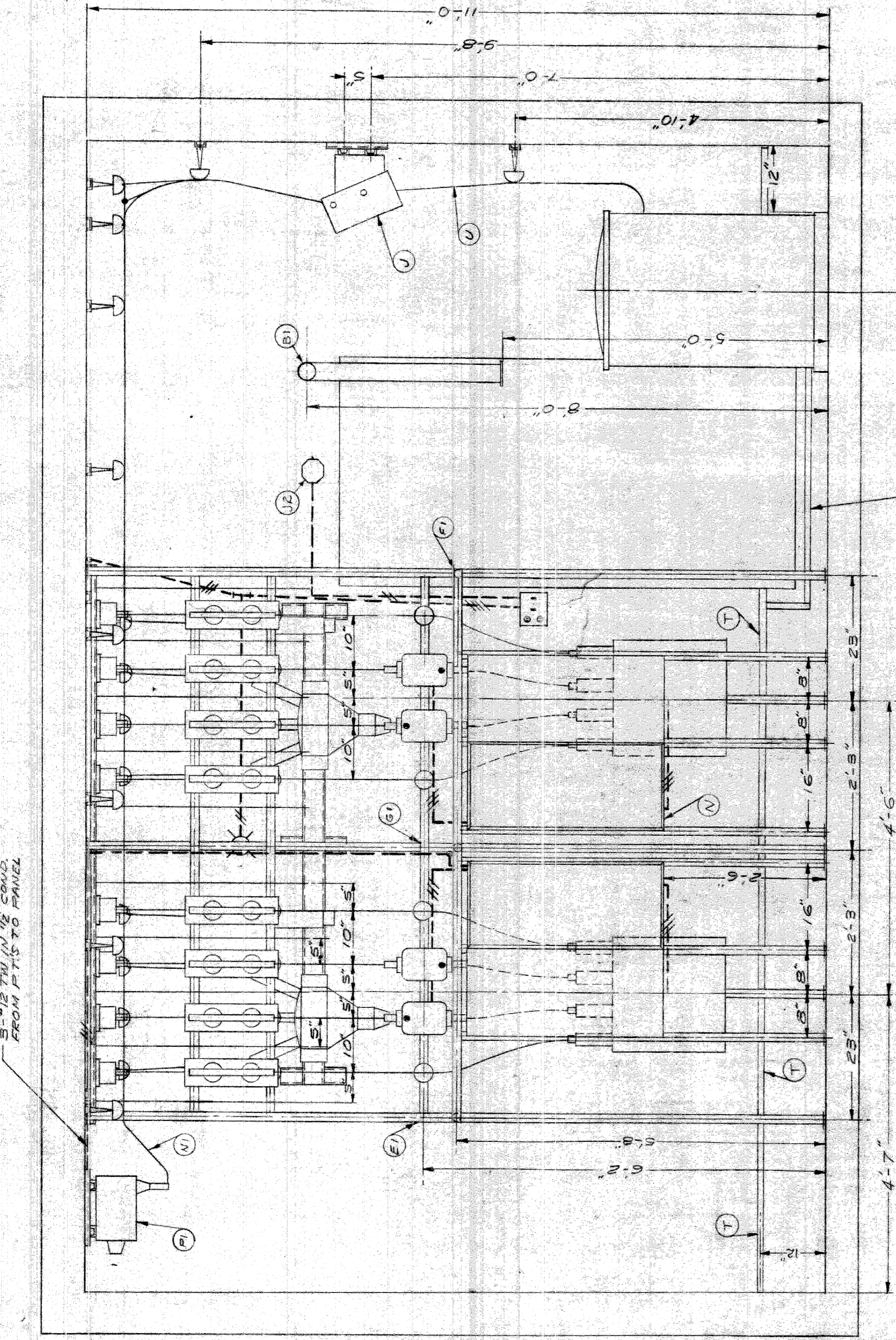
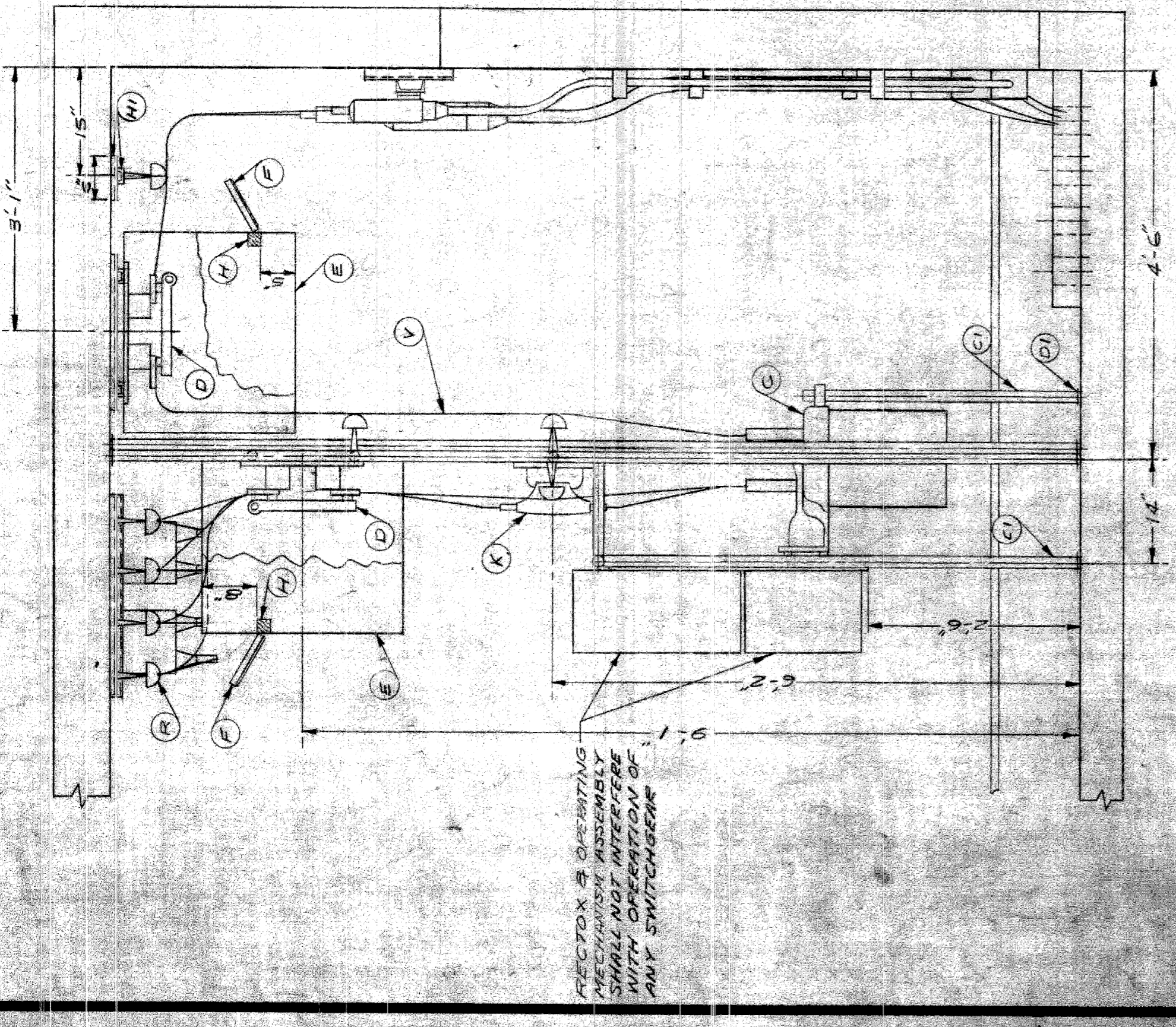
MAT'L: 6" x 24" x 1/4" CLEAR WHITE PINE  
FINISH: SCOTCHBRITE BALANCE ENAMEL  
LETTERS: 2" SCOTCHBRITE

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

NOTE: ALL NON-CONDUCTING METALLIC PARTS TO BE GROUNDED INCLUDING DOOR FRAMES.



WIRING DIAGRAM NO SCALE



NOTE:  
 1. ALL NON-CONDUCTING METALLIC PARTS TO BE GROUNDING INCLUDING DOORFRAMES.  
 2. ALL PRIMARY CABLES INSIDE ROOM TO BE FIREPROOFED

CITY OF DETROIT  
 PUBLIC LIGHTING COMMISSION  
 STREET LIGHTING ROOM  
 TRANSFORMER ROOM  
 (WATSON & WEST SERVICE DRIVE)

DRAWN BY T.R.L.  
 FILE NO. 58-3A  
 SHEET NO. 11 OF 15  
 APPROVED BY DATE 9-23-60

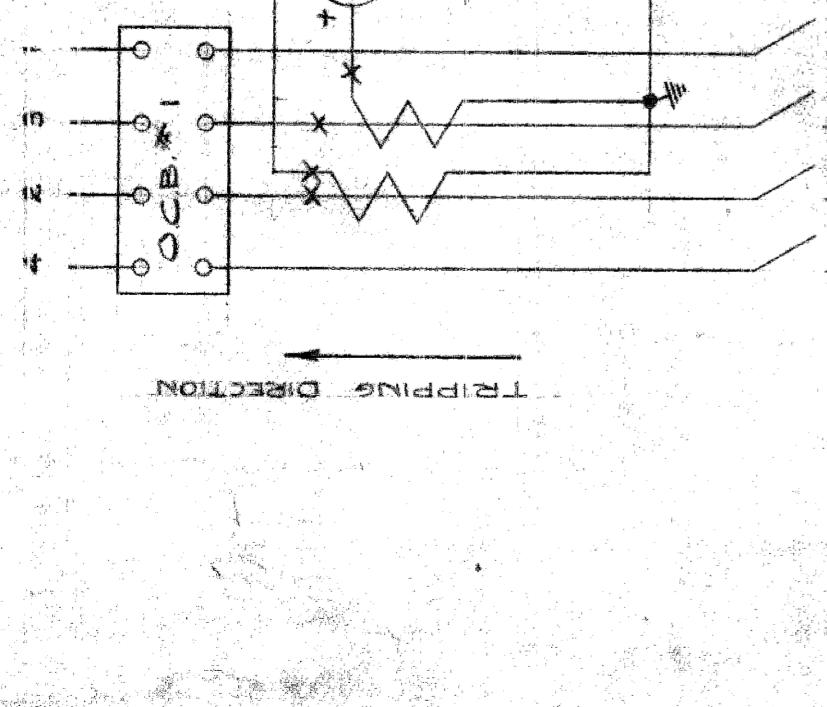
MICHIGAN STATE HIGHWAY DEPARTMENT  
 WALTER P. CHRYSLER EXPRESSWAY  
 (LADELAIDE TO ALEXANDRINE)

NO.	REVISIONS	DATE	BY

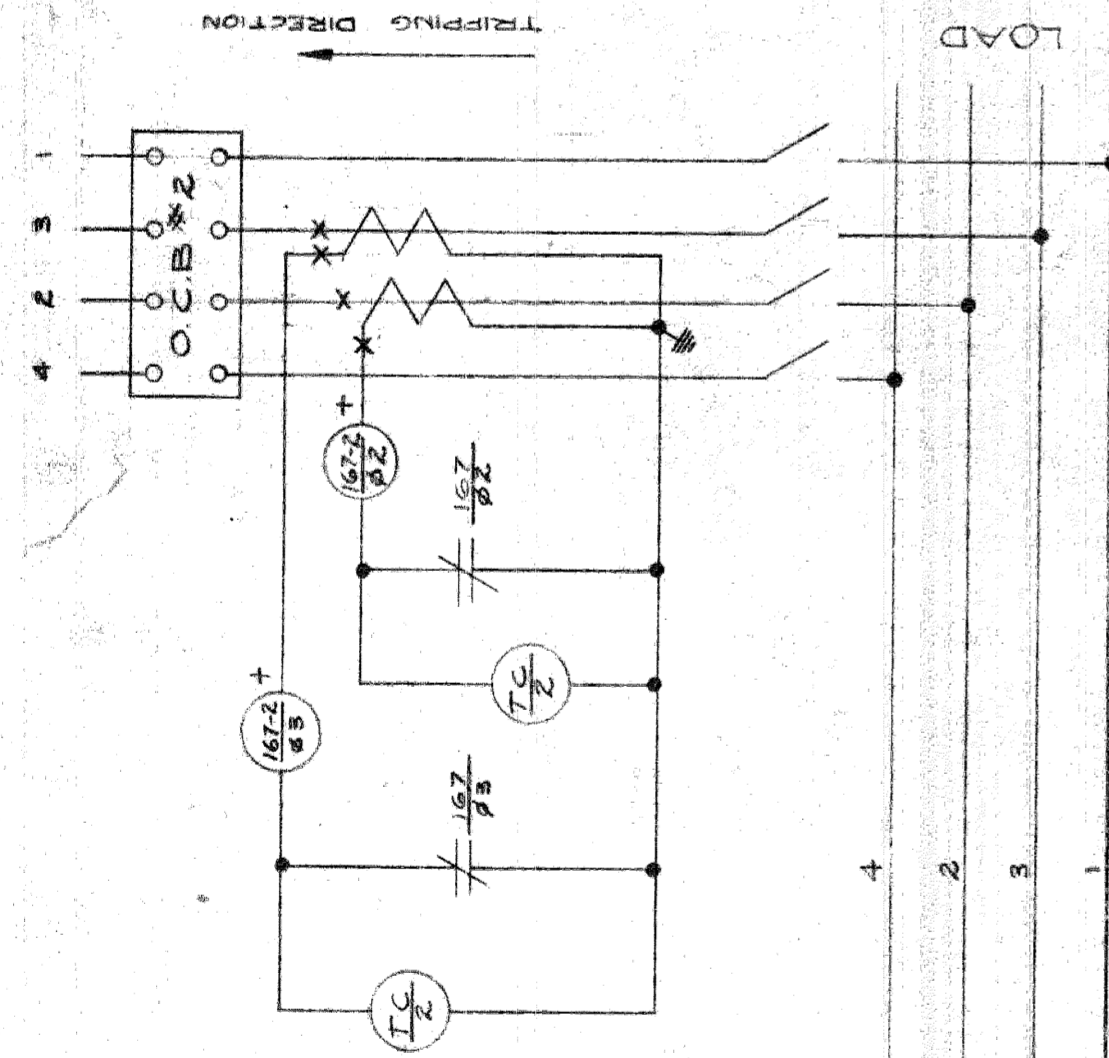
82251-C889



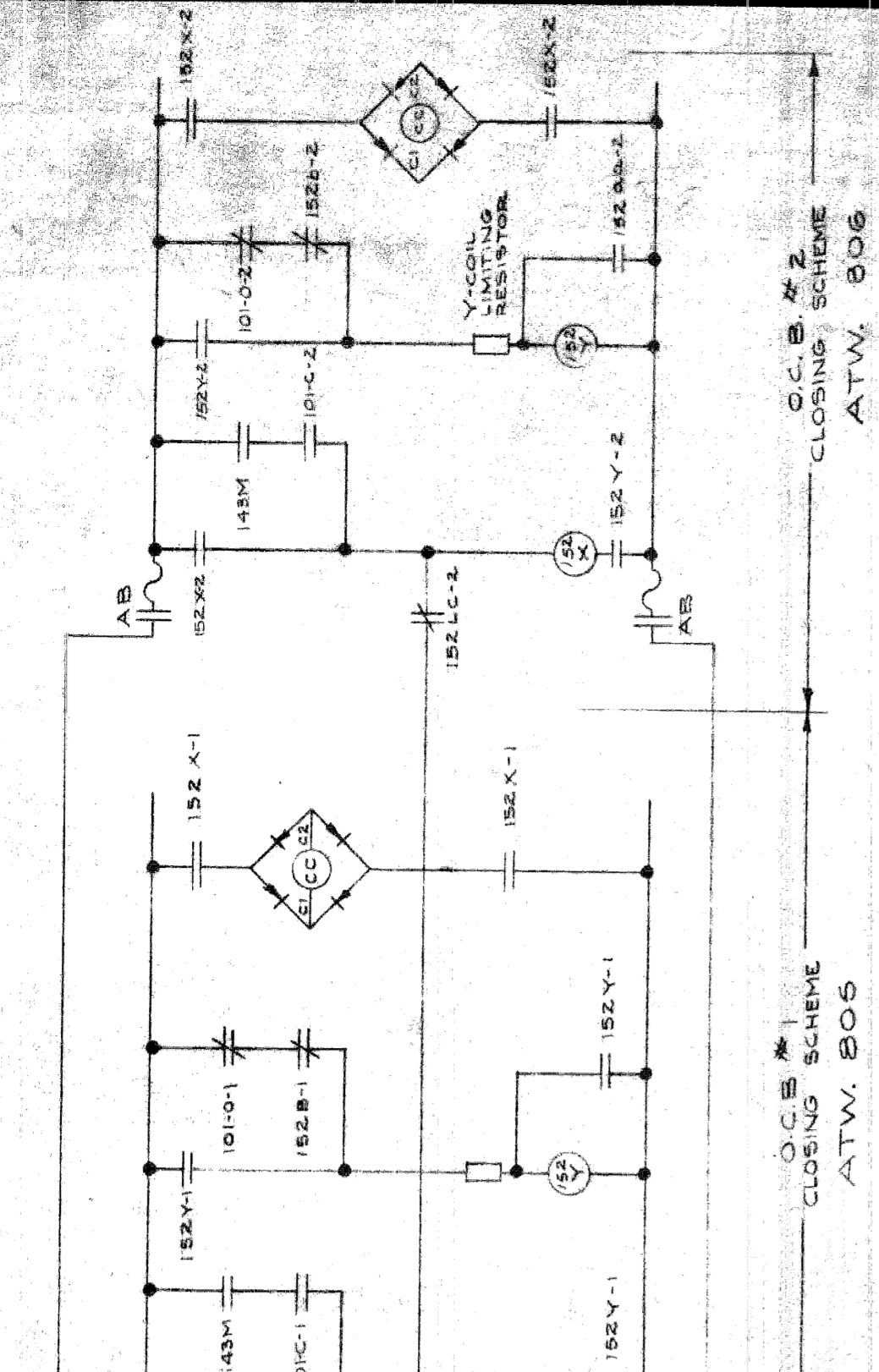
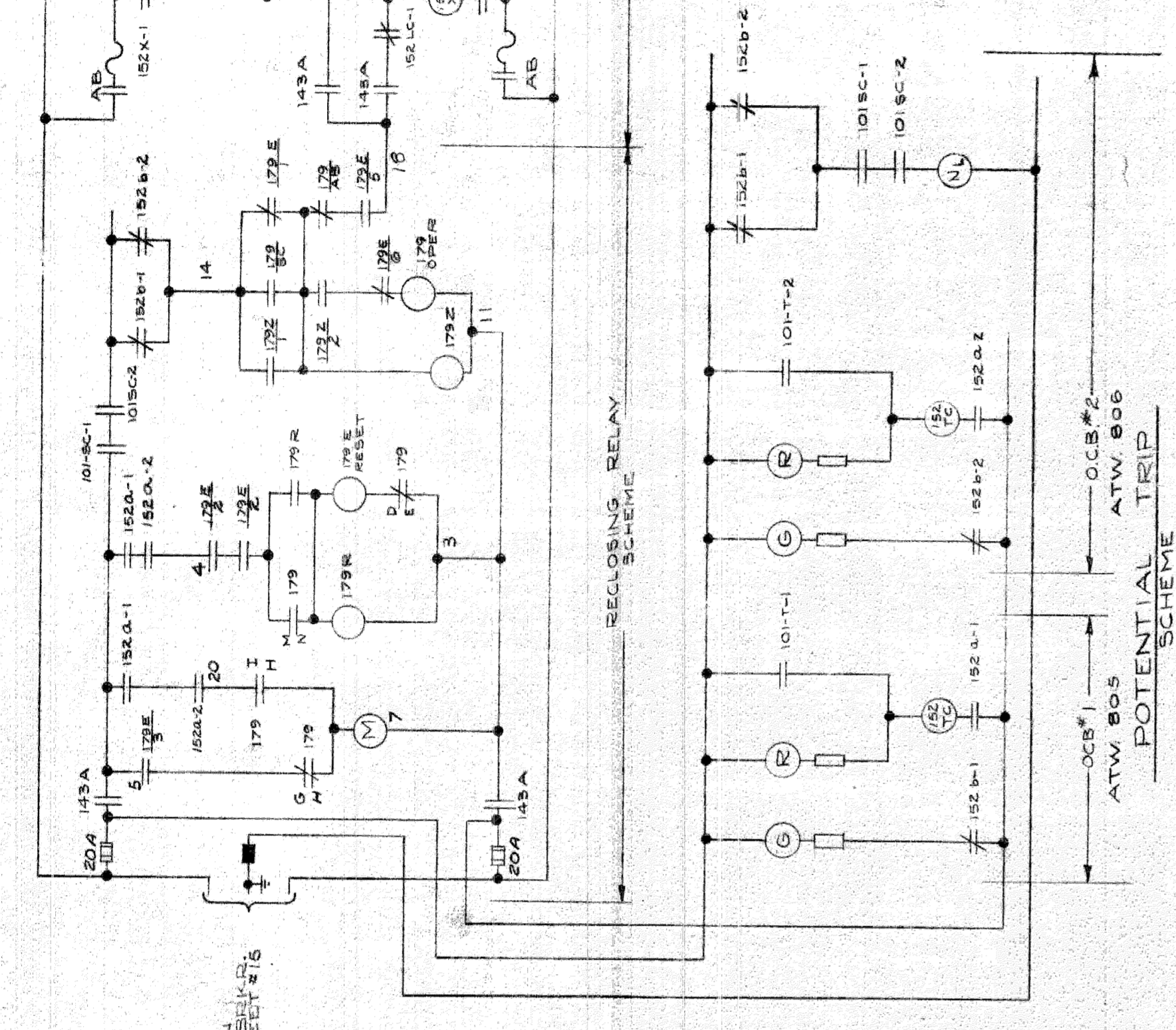
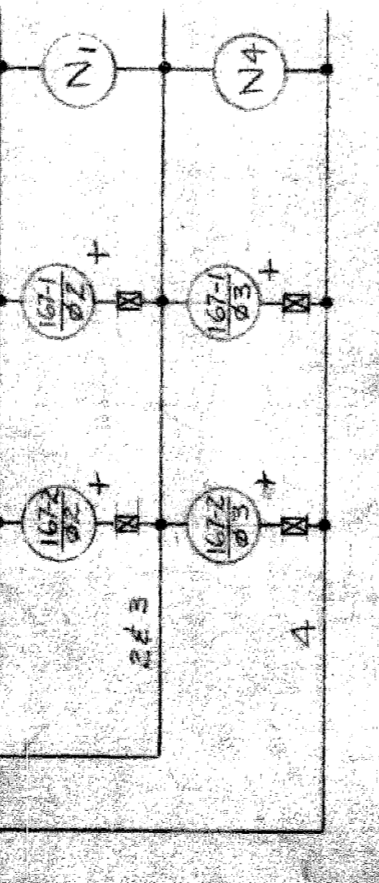
ATW: 805  
2400V 2Ø



ATW: 806  
2400V 2Ø



CURRENT & POTENTIAL SCHEMATIC

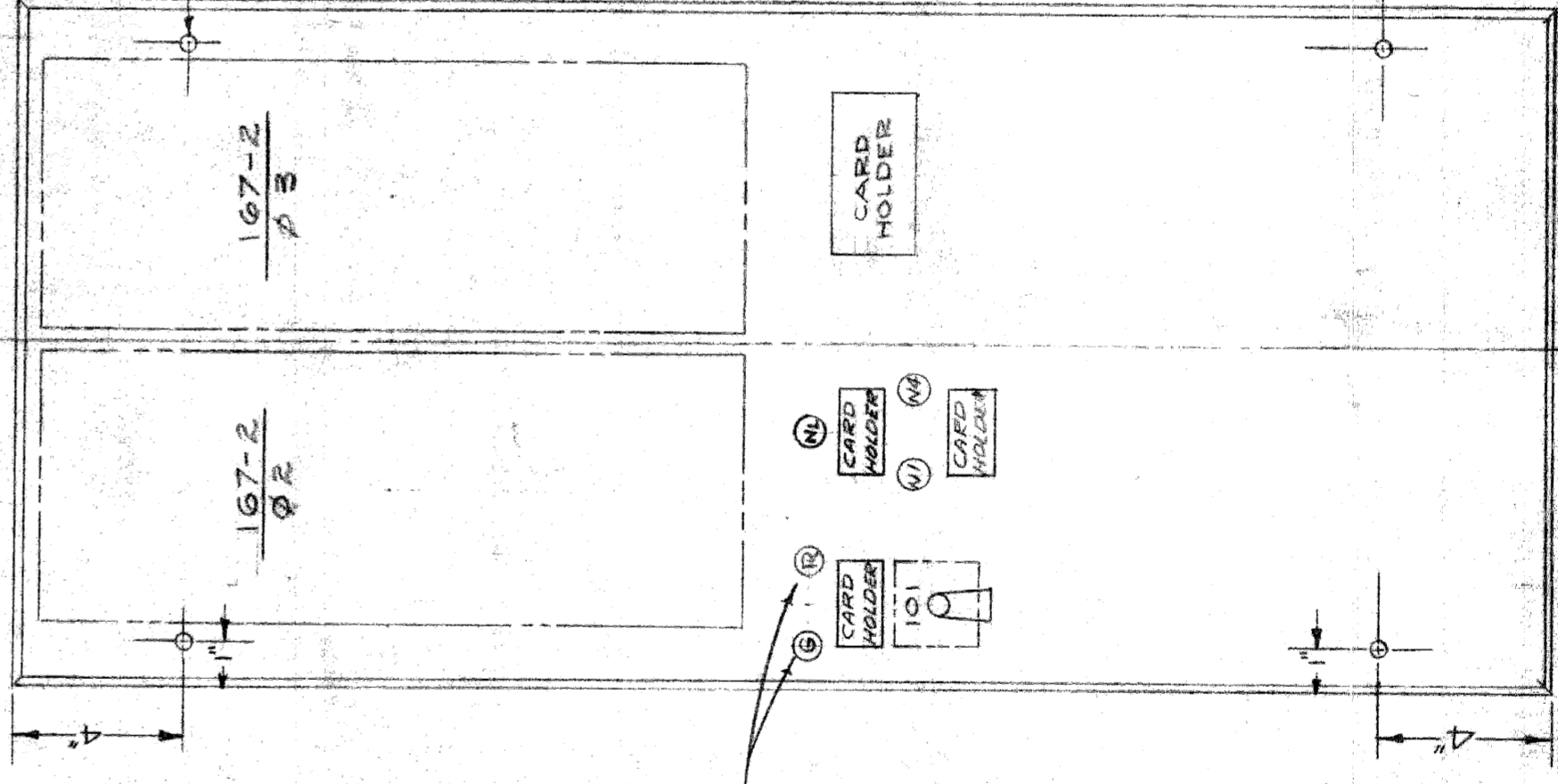


101 CLOSING SWITCH LEGEND

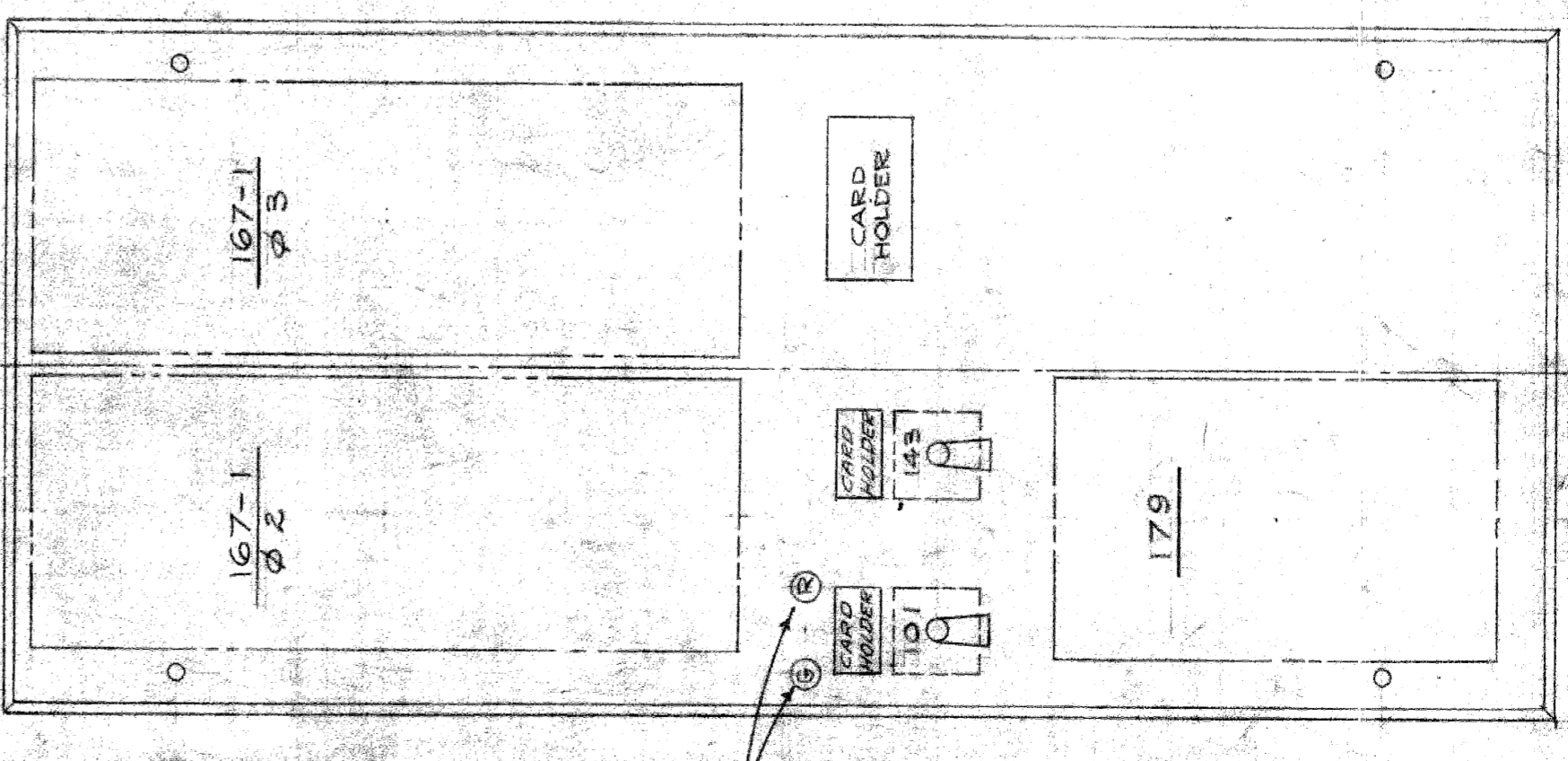
CONTACT NUMBER	NORMAL	CLOSE	TRIP
1-2	X		
3-4		X	
5-6			X
7-8		X	
9-10			X

NOTE: X DENOTES CONTACTS CLOSED

3/16" DRILL HOLES



PANEL #2  
ATWATER FOR 806



PANEL #1  
ATWATER FOR 805

SCALE - 3"=1'-0"

DEVICE LEGEND

101	OIL CIRCUIT BREAKER CONTROL SWITCH
143	MANUAL TO AUTOMATIC TRANSFER SW.
152	OIL CIRCUIT BREAKER
167	DIRECTIONAL OVERCURRENT CIRCUIT-OPENING RELAY
179	RECLOSING RELAY-GE. CO. TYPE ACR11A
N1	NEON LAMP NE-40 3WAT T POT. IND.
N4	" " " " " " " "
NL	" " " " " " " LOCKOUT IND.

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
STREET LIGHTING TRANSFORMER ROOM  
(WATSON & WEST SERVICE DRIVE)

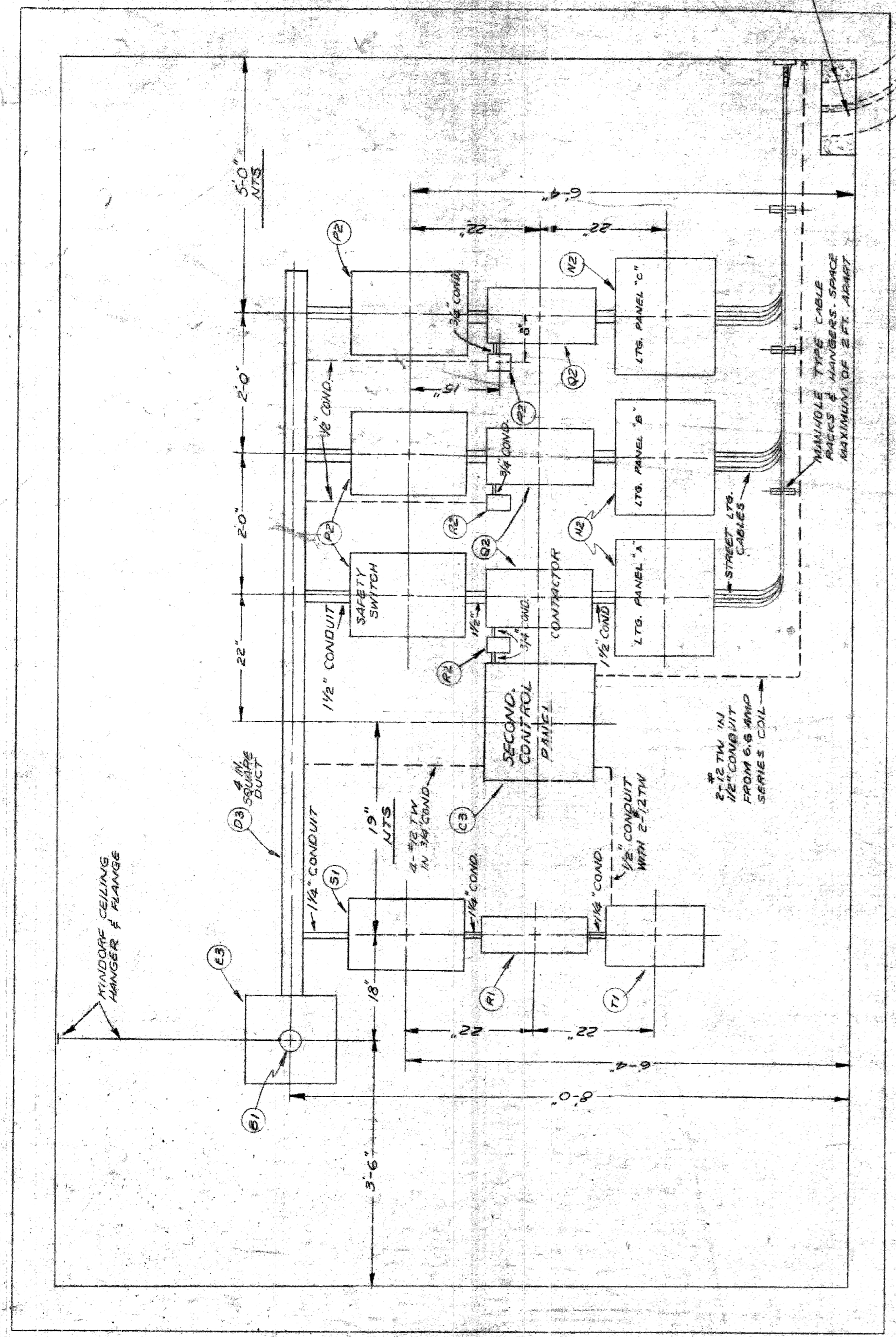
DRAWN BY H. C.  
CHKD BY AL  
APPROVED BY [Signature]  
FILE NO. 58-3A  
SHEET NO. 12 OF 15  
DATE 9-23-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY  
(ADELAIDE TO ALEXANDRINE)

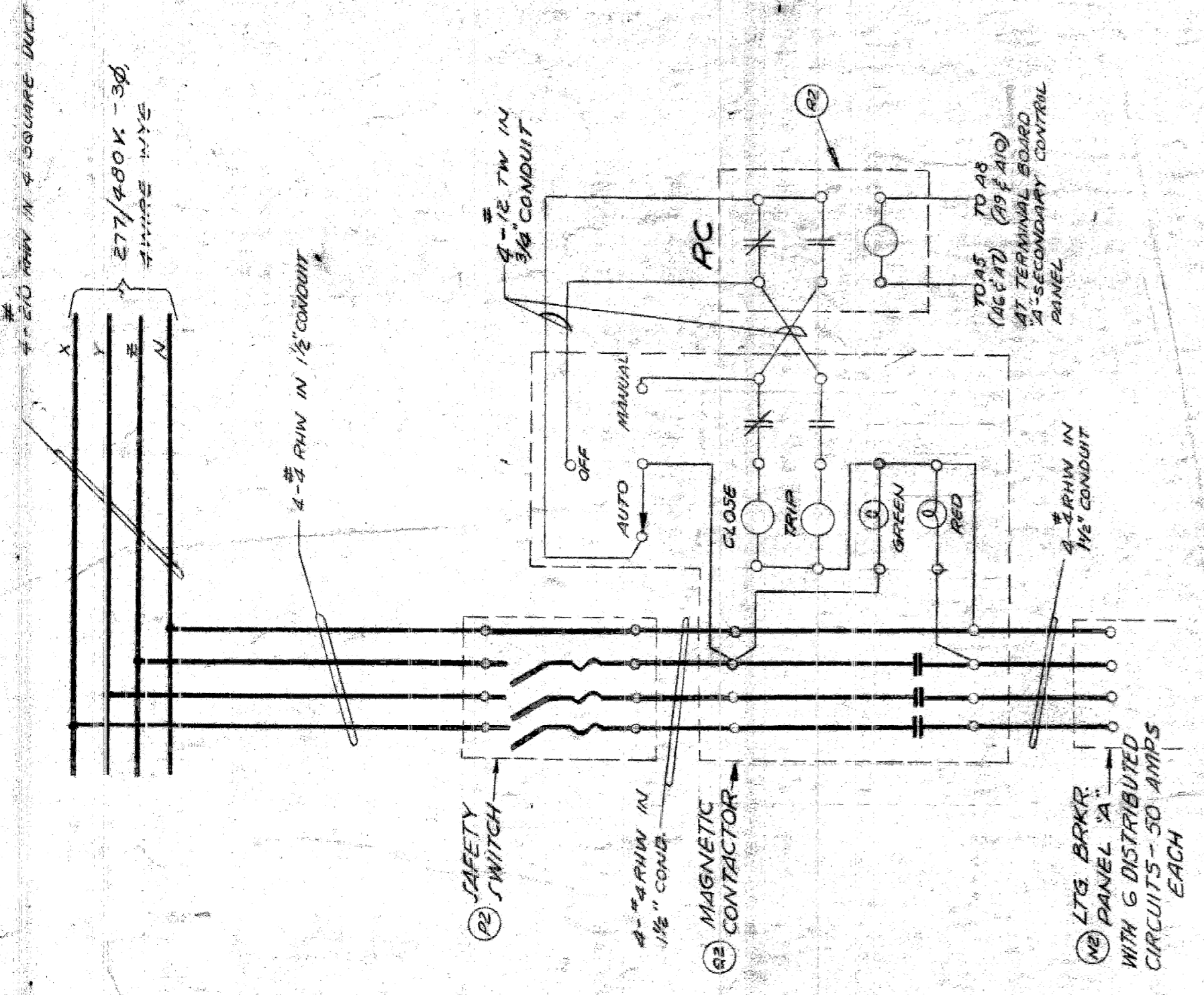
NO.	REVISIONS	DESCRIPTION	DATE	BY

82251-C889

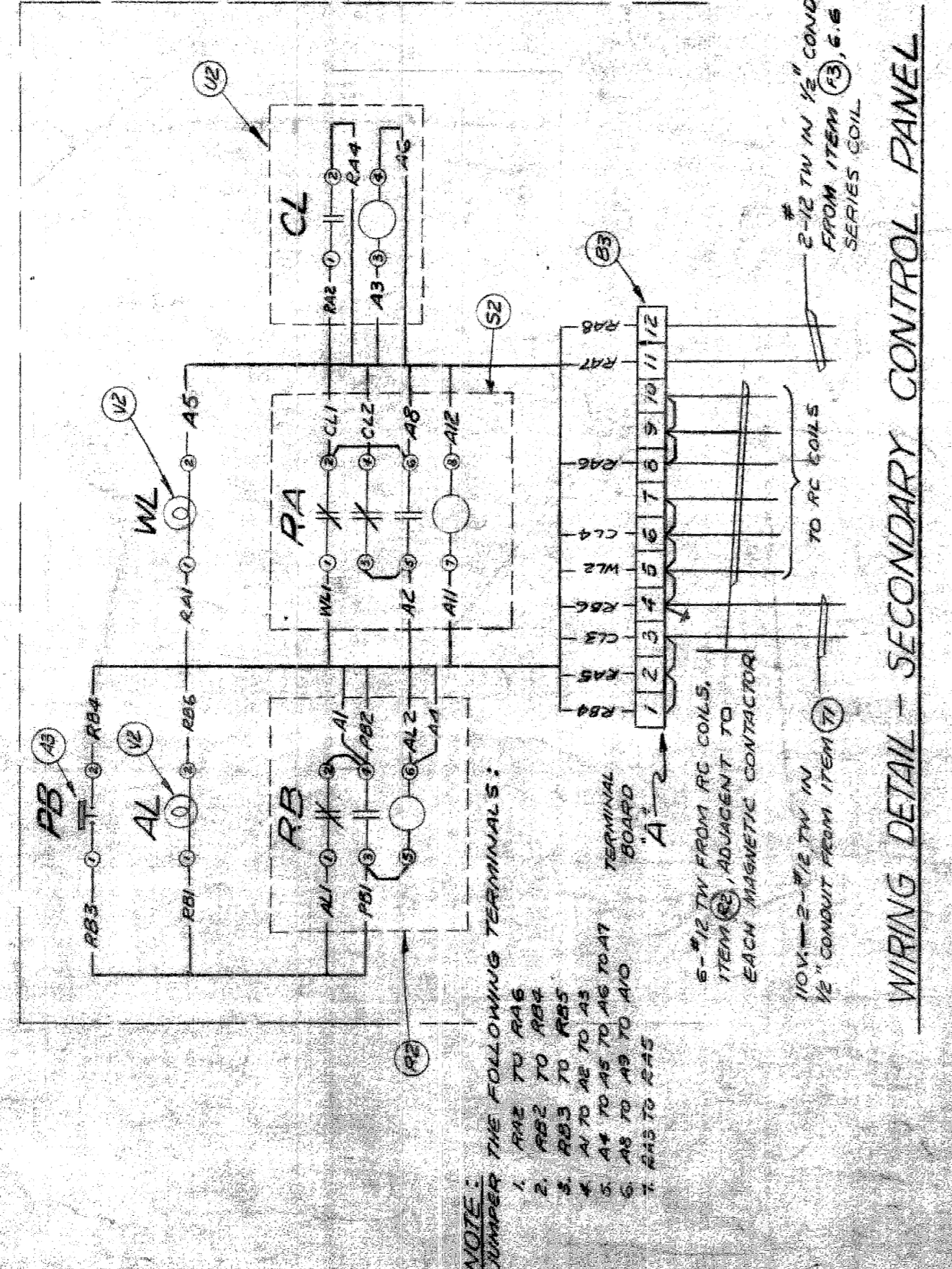
NOTE:  
ALL NON-CONDUCTING METALLIC PARTS  
TO BE GROUNDED INCLUDING DOOR FRAMES.



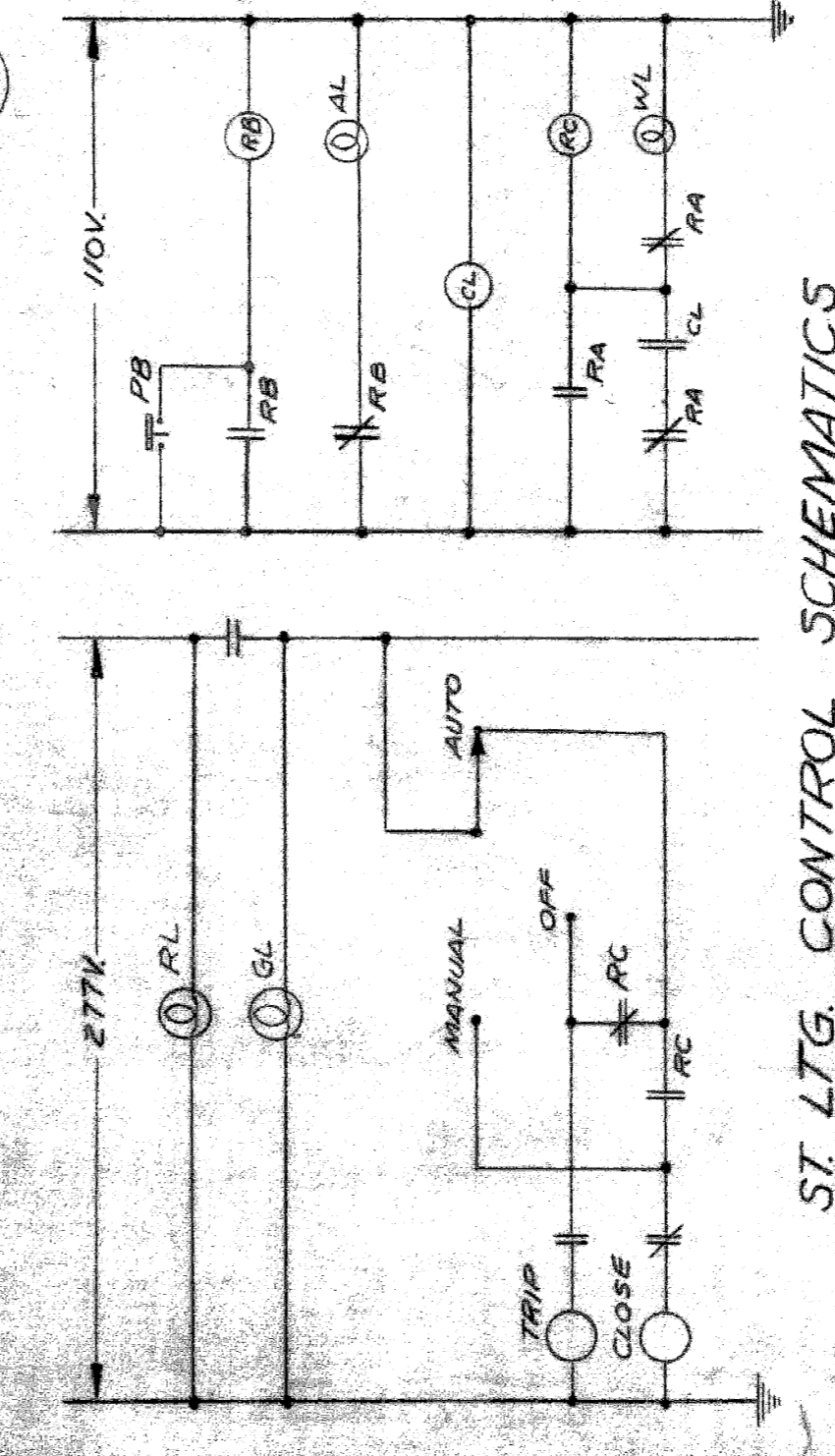
SECONDARY EQUIPMENT MOUNTING DETAIL - EAST WALL  
SCALE: 1/4" = 1 FT.



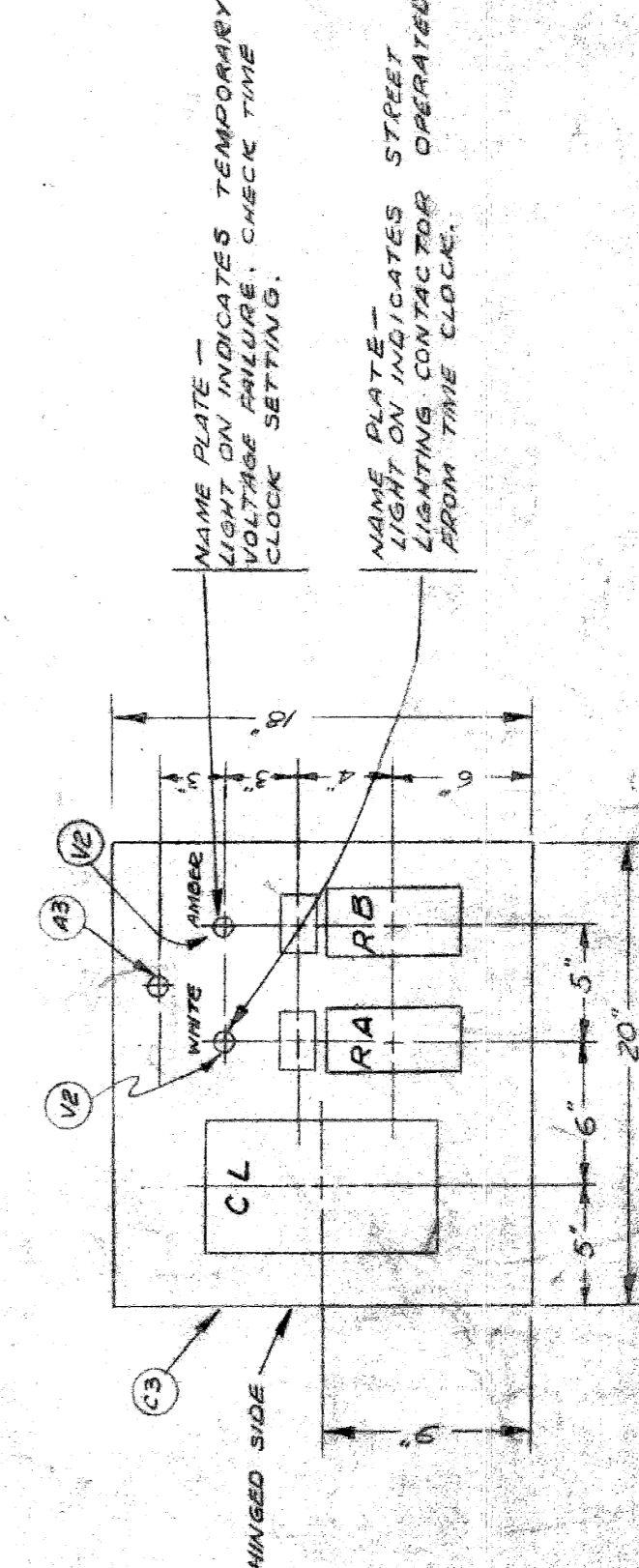
TYPICAL WIRING DIAGRAM - MAGNETIC CONTACTOR  
SCALE: 1/2" = 1 FT.



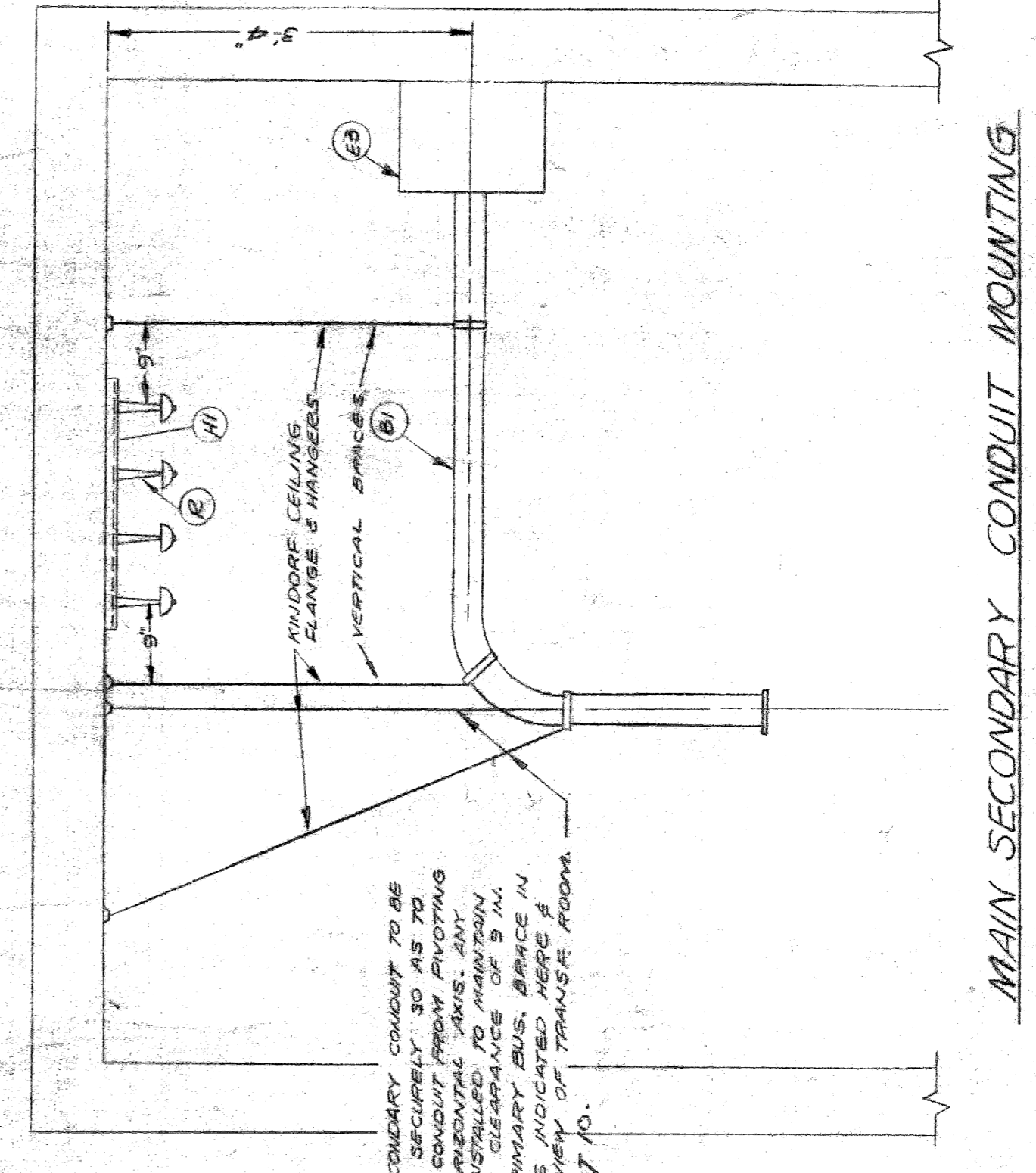
WIRING DETAIL - SECONDARY CONTROL PANEL  
SCALE: 1/2" = 1 FT.



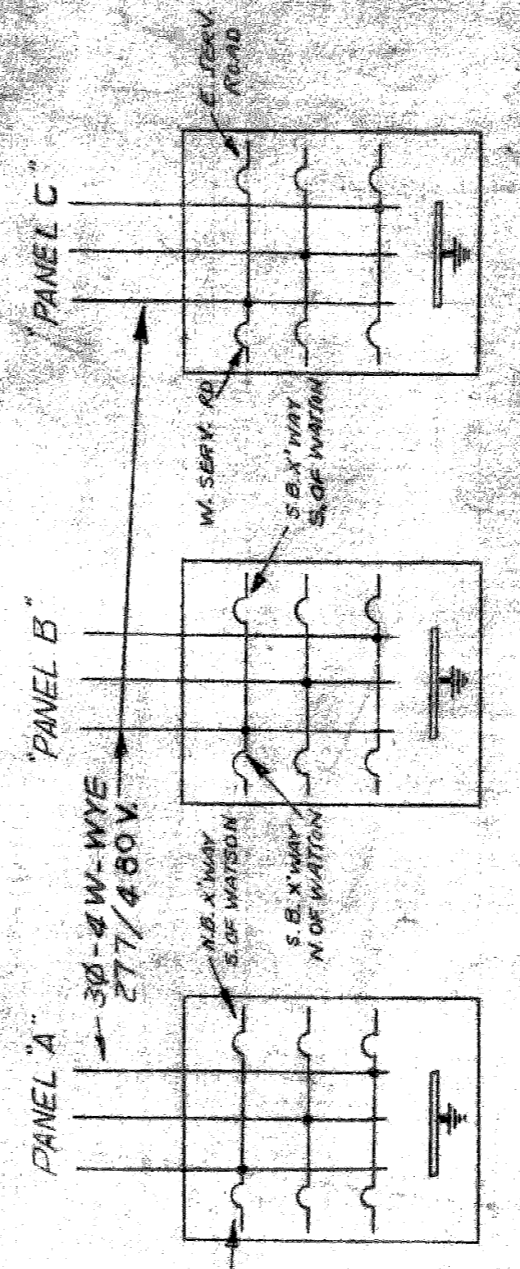
ST. LTG. CONTROL SCHEMATICS



SECONDARY CONTROL PANEL EQUIPMENT LAYOUT  
SCALE: 1/2" = 1 FT.



MAIN SECONDARY CONDUIT MOUNTING  
SCALE: 3/4" = 1 FT.



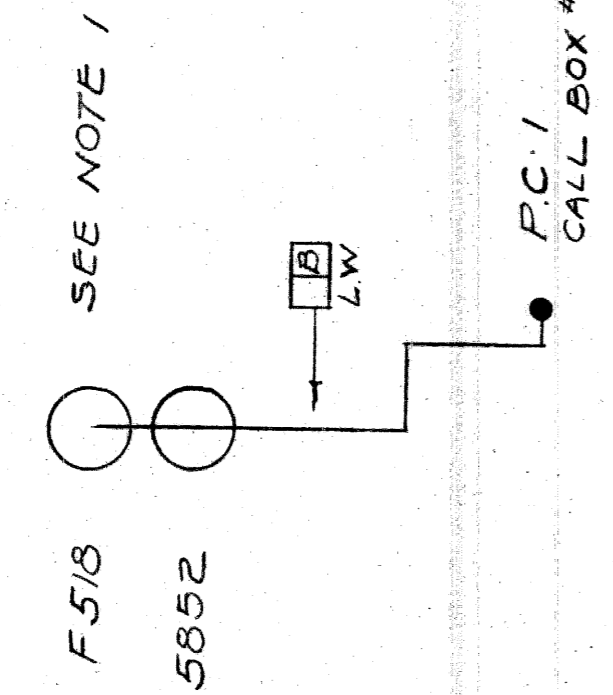
STREET LTG. PANEL SCHEMATICS  
SCALE: 1/2" = 1 FT.

FILE NO.	58-3A	
SHEET NO.	13 OF 15	
DATE	9-23-60	
DRAWN BY	LWM	
CHECKED BY		
APPROVED BY		
CITY OF DETROIT PUBLIC LIGHTING COMMISSION STREET LIGHTING TRANSFORMER ROOM-WATSON & W. SERVICE DR.		
MICHIGAN STATE HIGHWAY DEPARTMENT WALTER P. CHRYSLER EXPRESSWAY ADELAIDE TO ALEXANDRINE		
NO.	DATE	BY
REVISIONS		
DESCRIPTION		
SHEET 1/15 OF		
82251-C889		

NOTE: ALL NON CONDUCTING METALLIC PARTS INCLUDING DOOR FRAMES SHALL BE GROUNDED.

AMT.	QUANTITIES THIS SHEET	AMT.
2547 LF	F&P COMMUNICATION CABLE (16 PR)	2600 LF
1379 LF	F&P COMMUNICATION CABLE (11 PR)	1450 LF
770 LF	F&P COMMUNICATION CABLE (3 1/2 PR)	800 LF
3 EACH	FIRE CALL BOX UNIT - FURNISH	3 PART
3 EACH	POLICE CALL BOX UNIT - FURNISH	3 PART

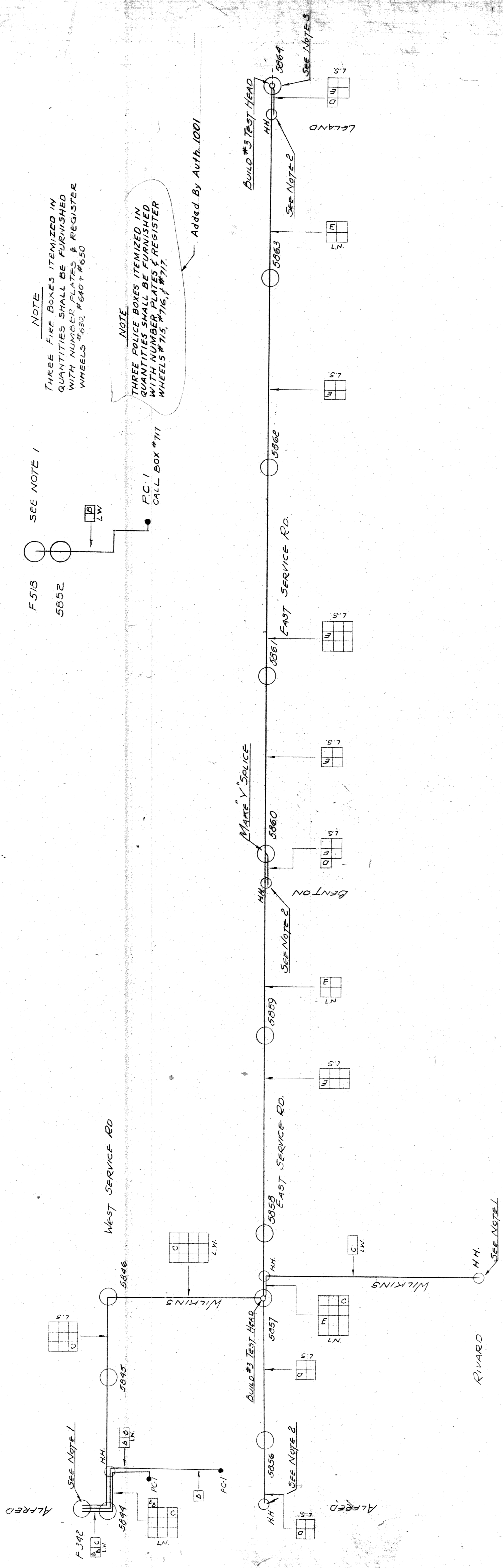
LIVINGSTONE



NOTE  
THREE FIRE BOXES ITEMIZED IN QUANTITIES SHALL BE FURNISHED WITH NUMBER PLATES & REGISTER WHEELS #630, #640 & #650

NOTE  
THREE POLICE BOXES ITEMIZED IN QUANTITIES SHALL BE FURNISHED WITH NUMBER PLATES & REGISTER WHEELS #715, #716, & #717

Added By Auth. 1001



- NOTES:
1. LEAVE SUFFICIENT SLACK FOR SPLICING - BY COMM DIV.
  2. COIL SUFFICIENT SLACK IN H.H. SO CABLE CAN BE PULLED THRU LATERAL FOR FIRE BOX INSTALLATION ON LIGHT STD. - BY COMM DIV.
  3. PROVIDE SLEEVE IN TEST HEAD FOR FUTURE 16 PR PLASTIC CABLE NORTH.

- CABLE DESIGNATIONS:
- A. Not Required This Contract.
  - B. 6 PAIR PASTHWAY CABLE.
  - C. 11 PAIR PLASTIC CABLE.
  - D. 32 PAIR PLASTIC CABLE.
  - E. 16 PAIR PLASTIC CABLE.

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
COMMUNICATIONS DIVISION  
ADELAIDE TO ALEXANDRINE

FILE NO. 58-3A  
SHEET NO. 14 OF 15  
DATE 9-23-60

DRAWN BY VCS  
APPR. BY [Signature]  
APPR. BY [Signature]

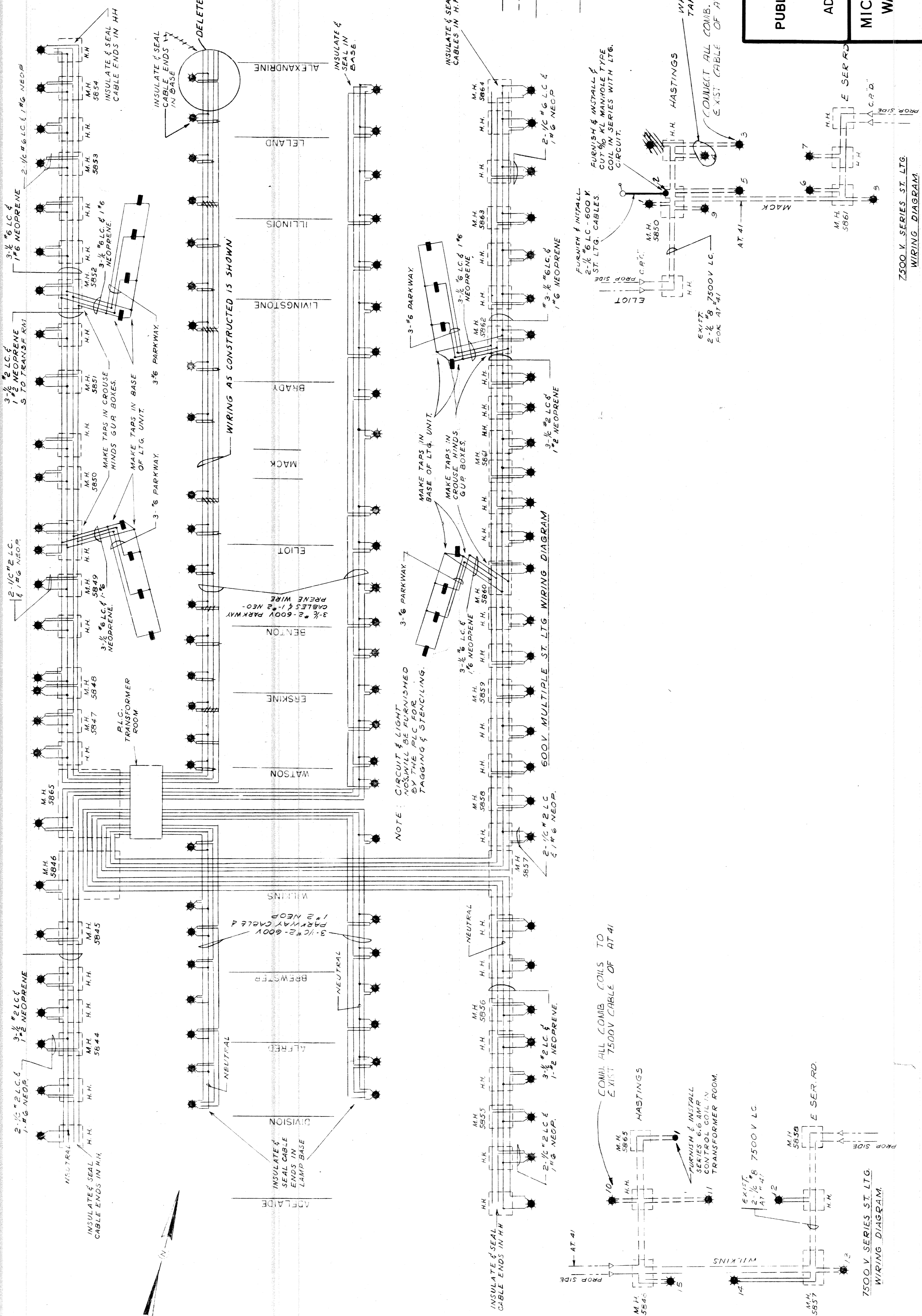
MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

APPROVED	CHIEF BRIDGE DRAFTSMAN
APPROVED	ENGINEER OF BRIDGE DESIGN
APPROVED	BRIDGE ENGINEER

NO.	REVISIONS	DATE

P.L.C. COMM DIV. TX 41364

82251-C889



- LEGEND -

- PROPOSED UNDERGROUND CABLE.
- EXISTING UNDERGROUND CABLE.
- EXISTING OVERHEAD LINE.
- PROPOSED MANHOLE OR HANDHOLE, UNLESS OTHERWISE SPECIFIED.
- PROPOSED POTHEAD.
- PROPOSED UNDERGROUND STREET LIGHTING STANDARD.
- PROPOSED UNDERGROUND STREET LIGHTING STANDARD (RAMPS).

CITY OF DETROIT PUBLIC LIGHTING COMMISSION WIRING DIAGRAM ADELAIDE TO ALEXANDRINE	FILE NO.	58-3A
	CHECKED BY	15 OF 15
	APPROVED BY	DATE 9-23-60

MICHIGAN STATE HIGHWAY DEPARTMENT  
WALTER P. CHRYSLER EXPRESSWAY

NO.	REVISIONS	DATE	BY

82251-C889

PLAN  
NO SCALE

NOTE: CIRCUIT & LIGHT CABLES WILL BE FURNISHED BY THE PLC FOR TAGGING & STENCILING.

COMB. ALL COMB. COILS TO EXIST 7500V CABLE OF AT 41

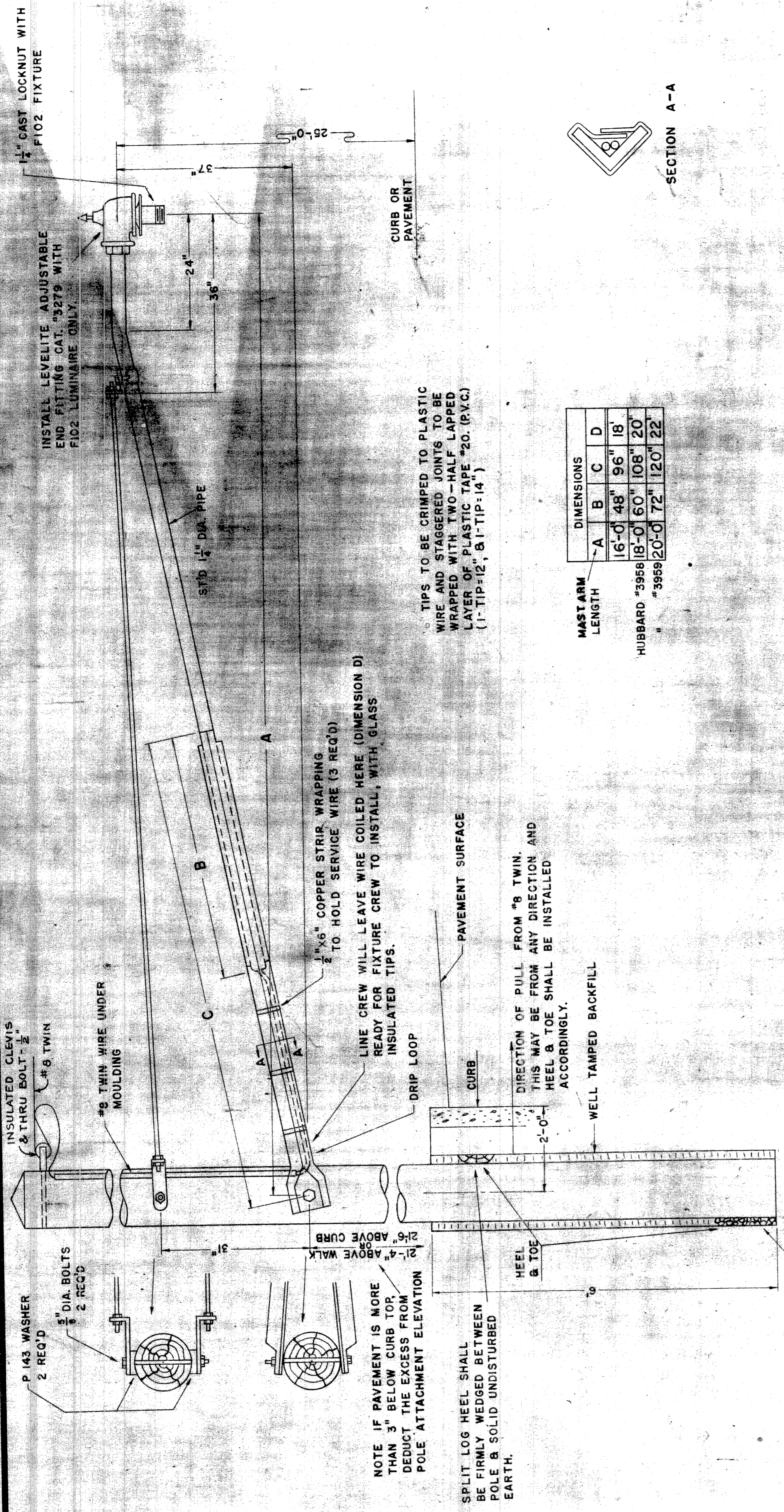
FURNISH & INSTALL SERIES 6-6 AMP CONTROL COIL IN TRANSFORMER ROOM.

COMB. ALL COMB. COILS TO EXIST 7500V CABLE OF AT 41

FURNISH & INSTALL SERIES 6-6 AMP CONTROL COIL IN TRANSFORMER ROOM.

COMB. ALL COMB. COILS TO EXIST 7500V CABLE OF AT 41

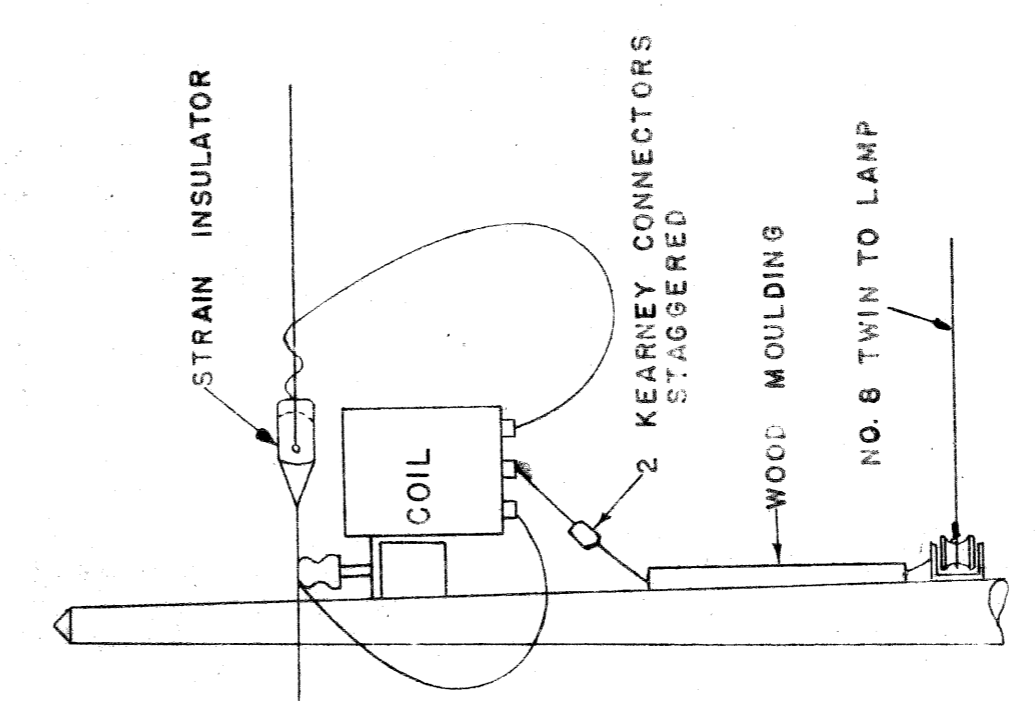
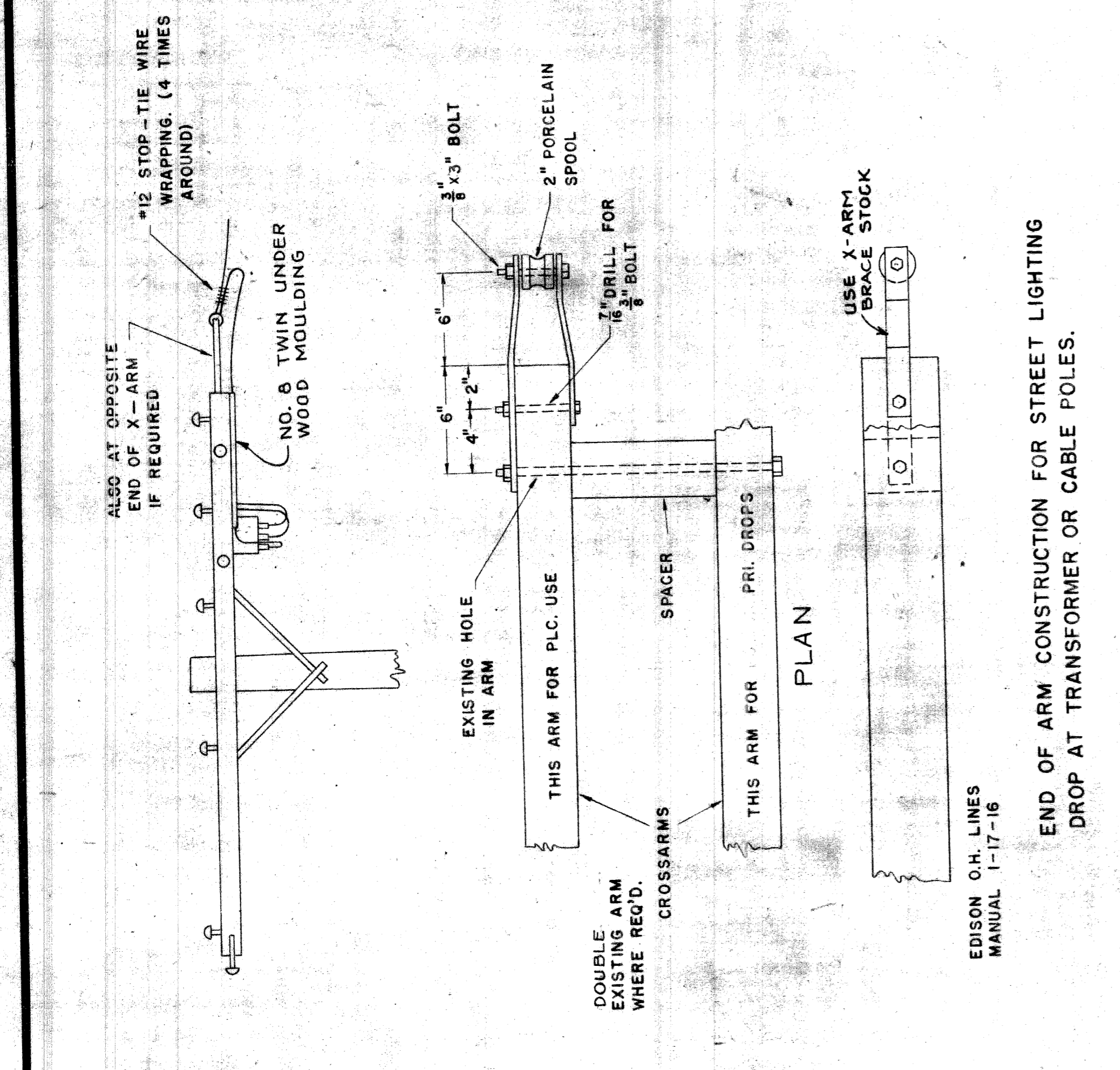
FURNISH & INSTALL SERIES 6-6 AMP CONTROL COIL IN TRANSFORMER ROOM.



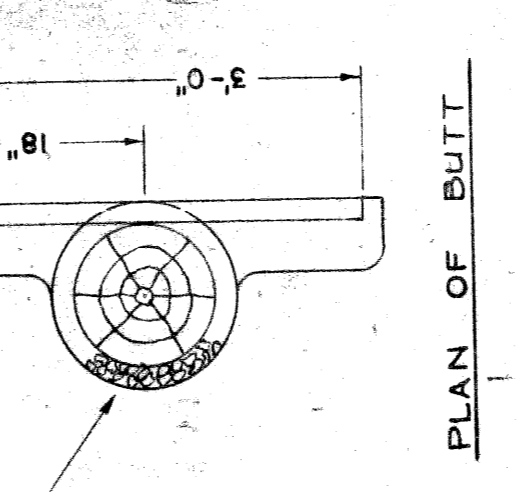
MAST ARM LENGTH

DIMENSIONS	A	B	C	D
HUBBARD #3950	16'-0"	48"	96"	18"
"3955	18'-0"	60"	108"	20"
"3959	20'-0"	72"	120"	22"

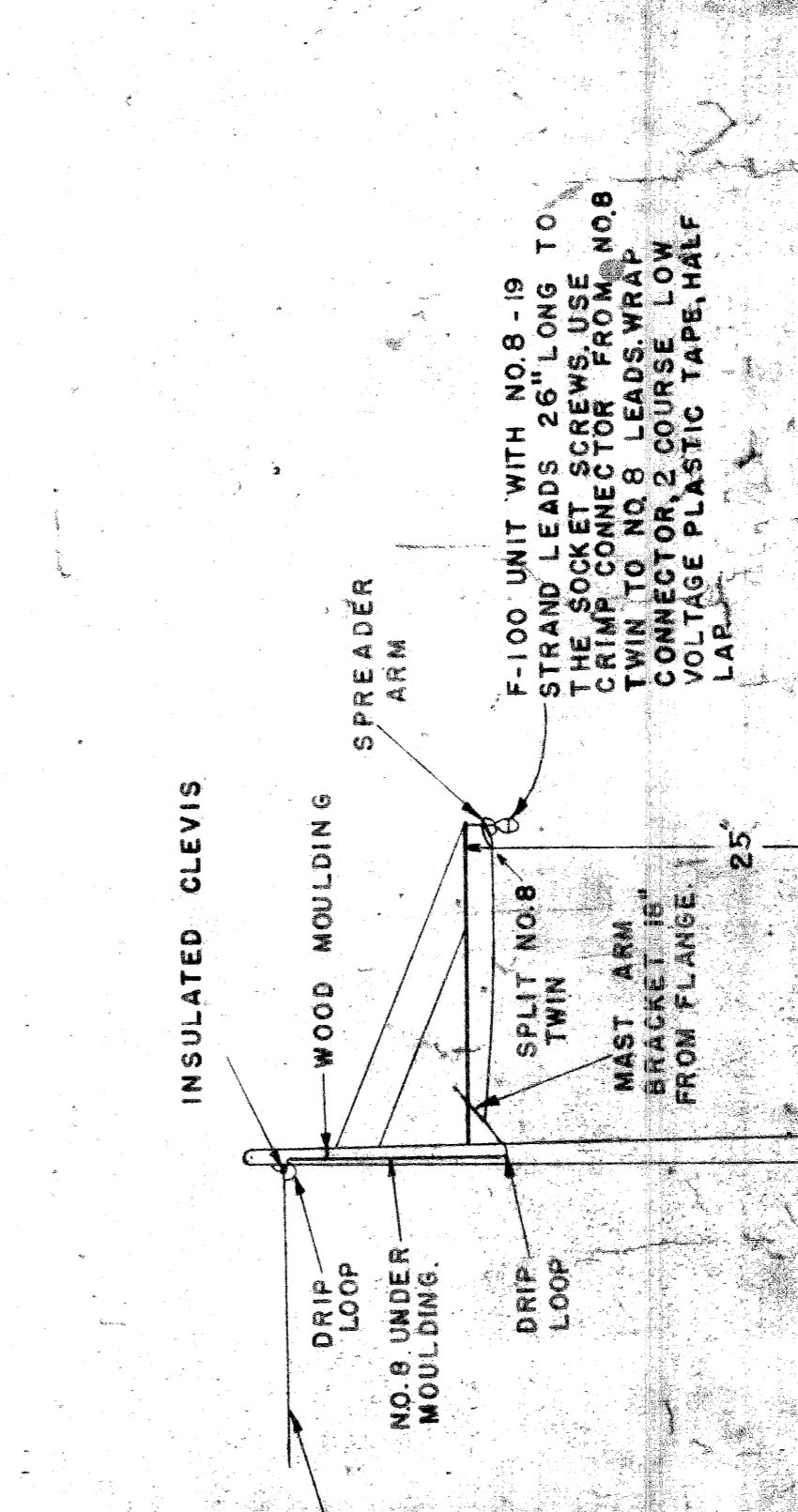
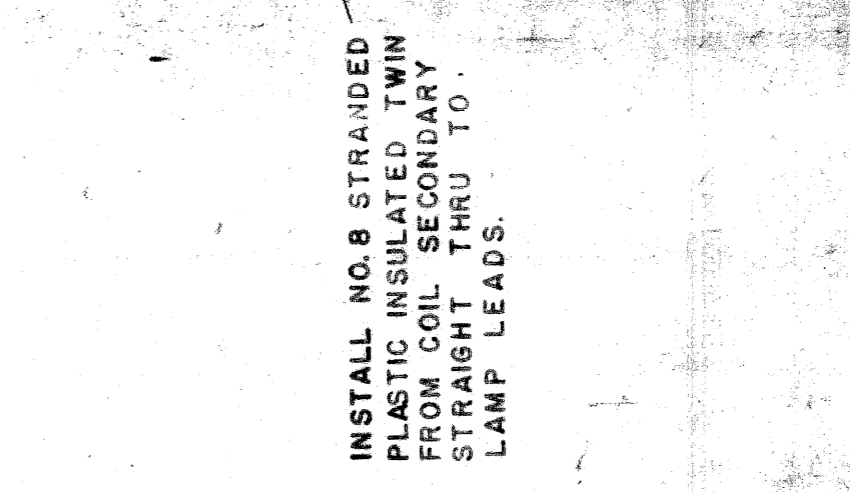
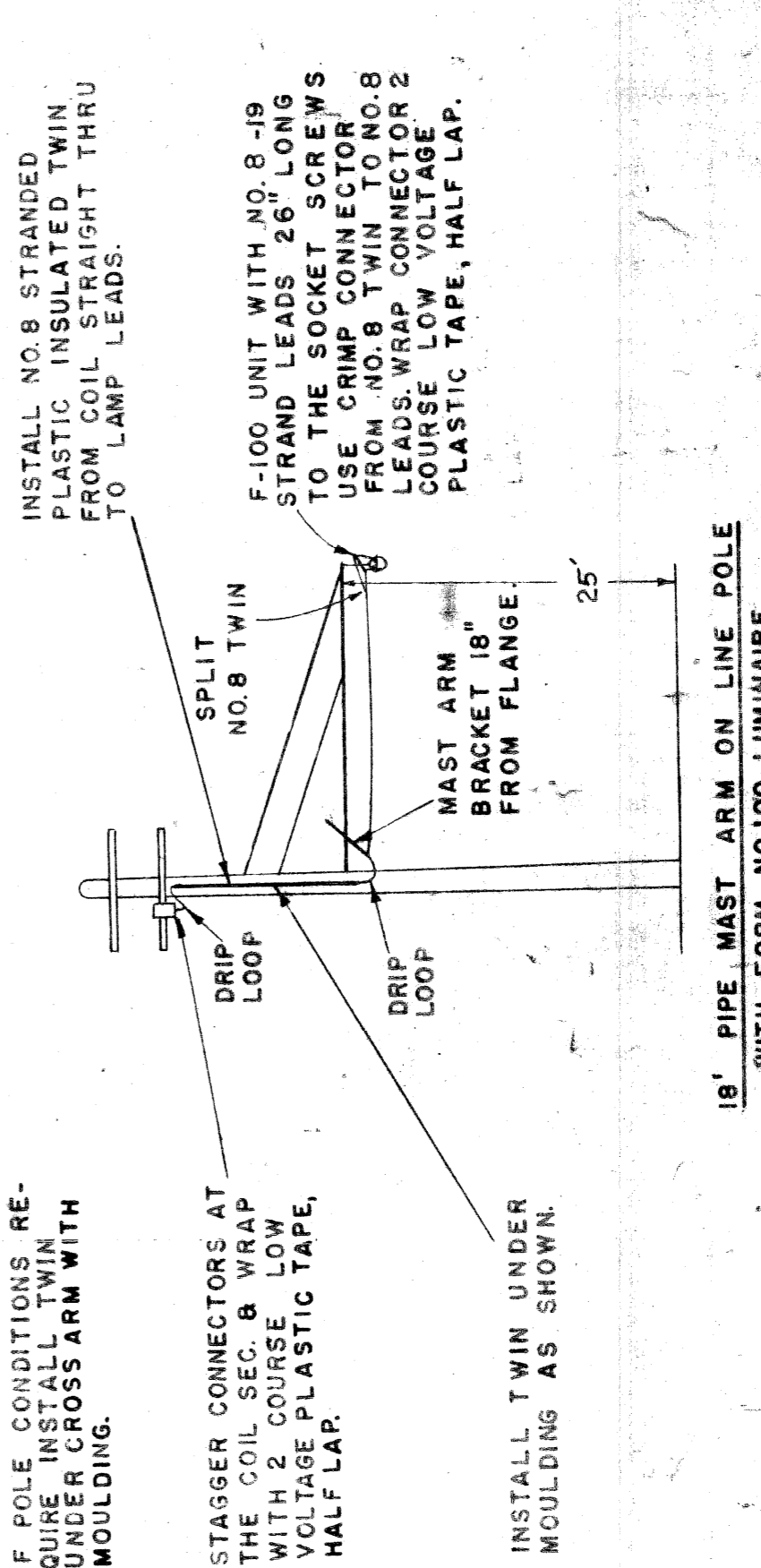
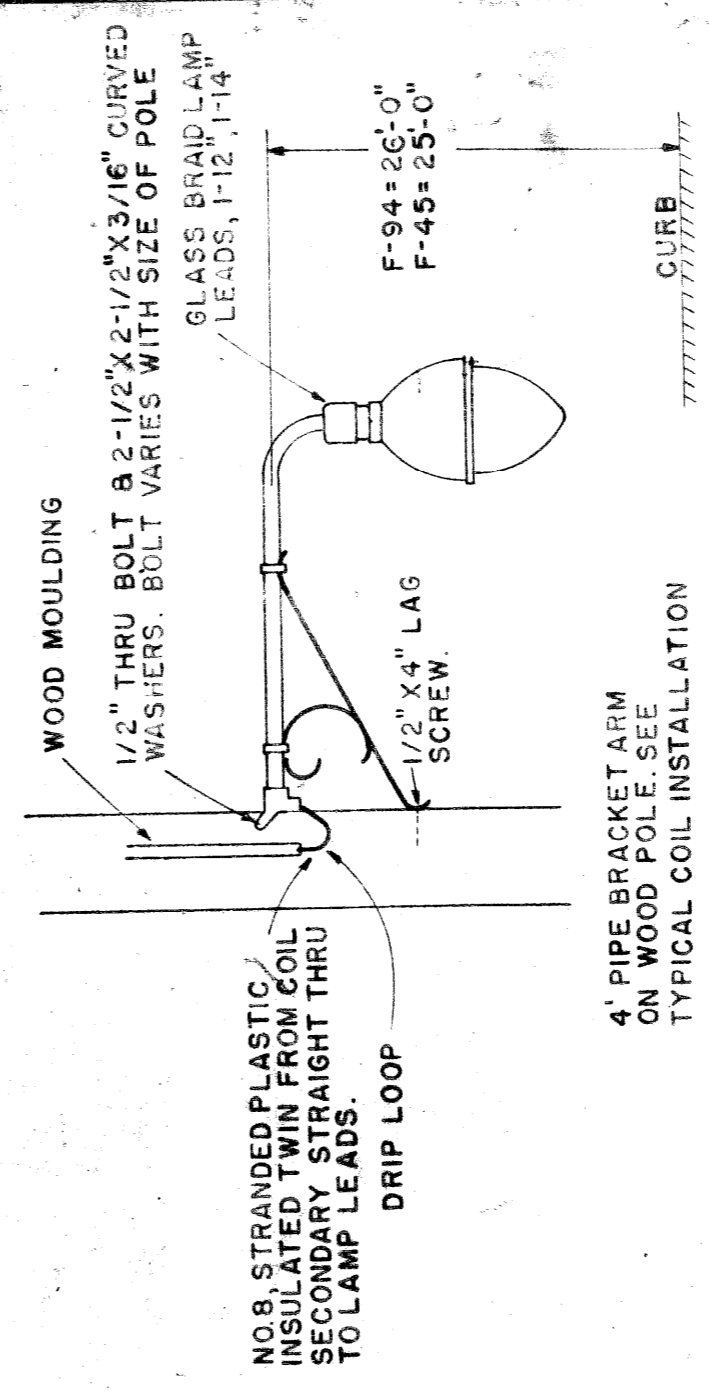
TIPS TO BE CRIMPED TO PLASTIC WIRE AND STAGGERED JOINTS TO BE WRAPPED WITH TWO-HALF LAPPED LAYER OF PLASTIC TAPE #20. (V.C.) (1-TIP:12, 8-1-TIP:14)



USE FIELD STONES, PEICES OF BROKEN SIDEWALK OR GRAVEL FOR TOE SUPPORT. THE TOE SHALL BE FIRMLY TAMPED BETWEEN POLE & SOLID UNDISTURBED EARTH.



INSTALLATION INSTRUCTIONS FOR HUBBARD MAST ARM



CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P. L. C. DETAILS  
STREET LIGHTING MAST ARM

MICHIGAN STATE HIGHWAY DEPARTMENT

DESIGNED BY: [ ]  
CHECKED BY: [ ]  
APPROVED BY: [ ]

DATE: [ ]

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	HUBBARD NO. 3950, 3955, 3959	6-27-47	G.C.
2	REVISIONS	8-28-47	G.C.
3	REVISIONS	8-28-47	G.C.

DESIGNED BY: [ ]  
CHECKED BY: [ ]  
APPROVED BY: [ ]

DATE: [ ]

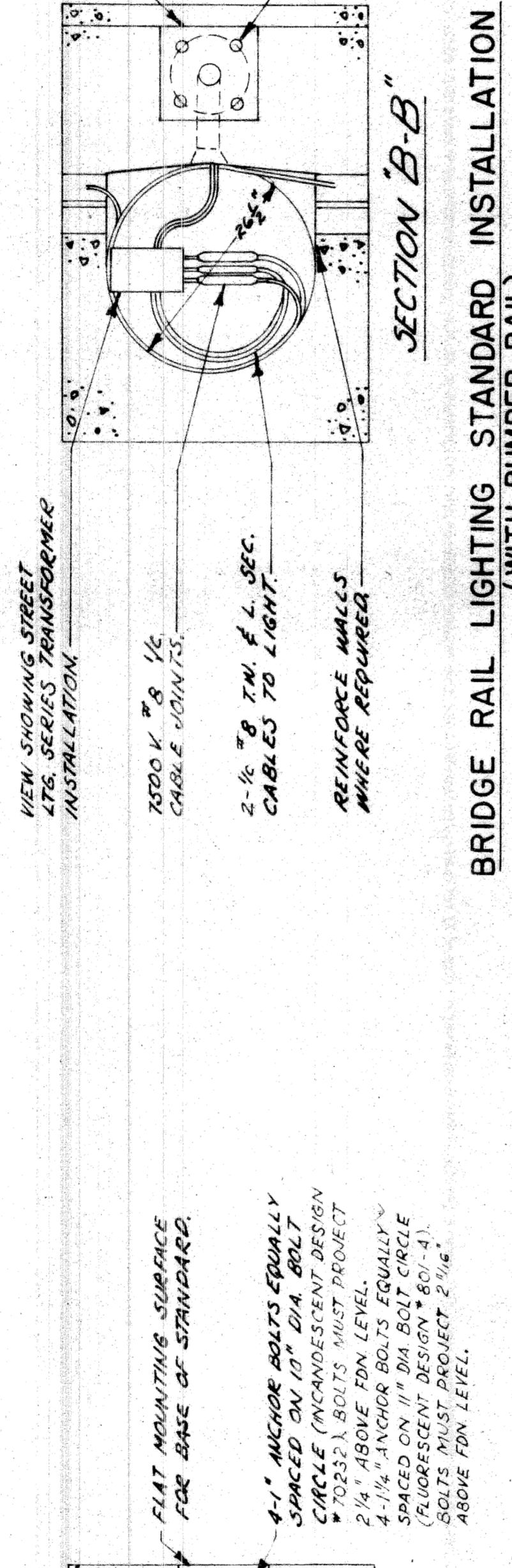
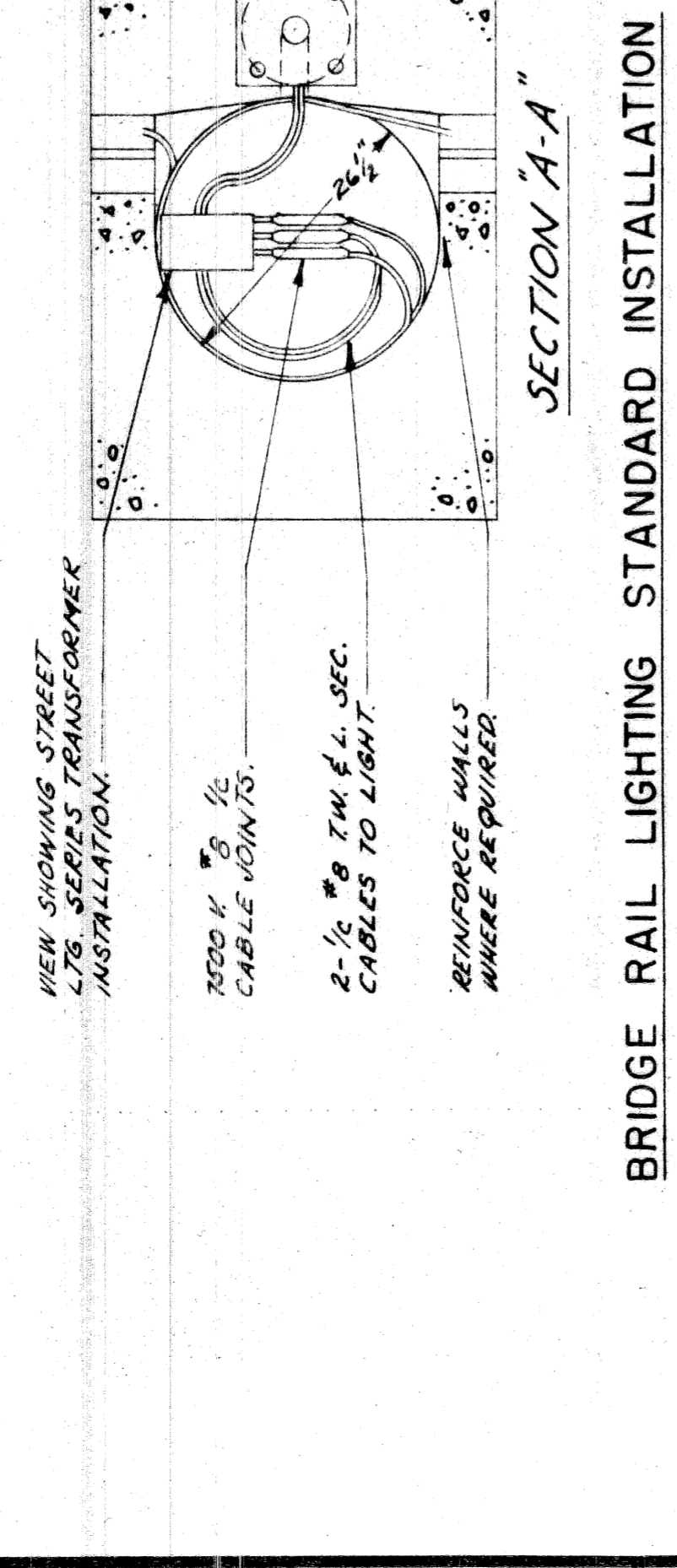
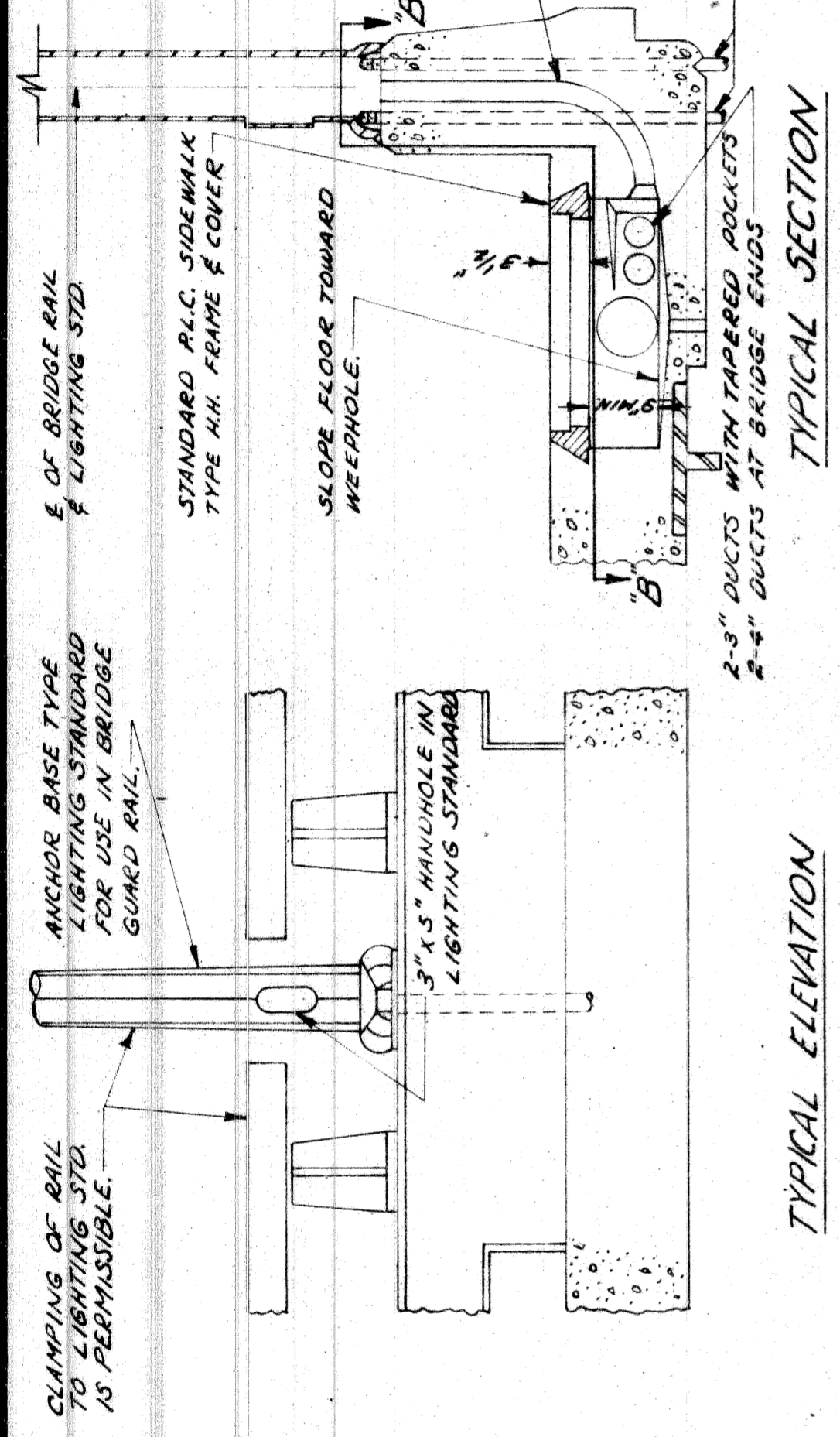
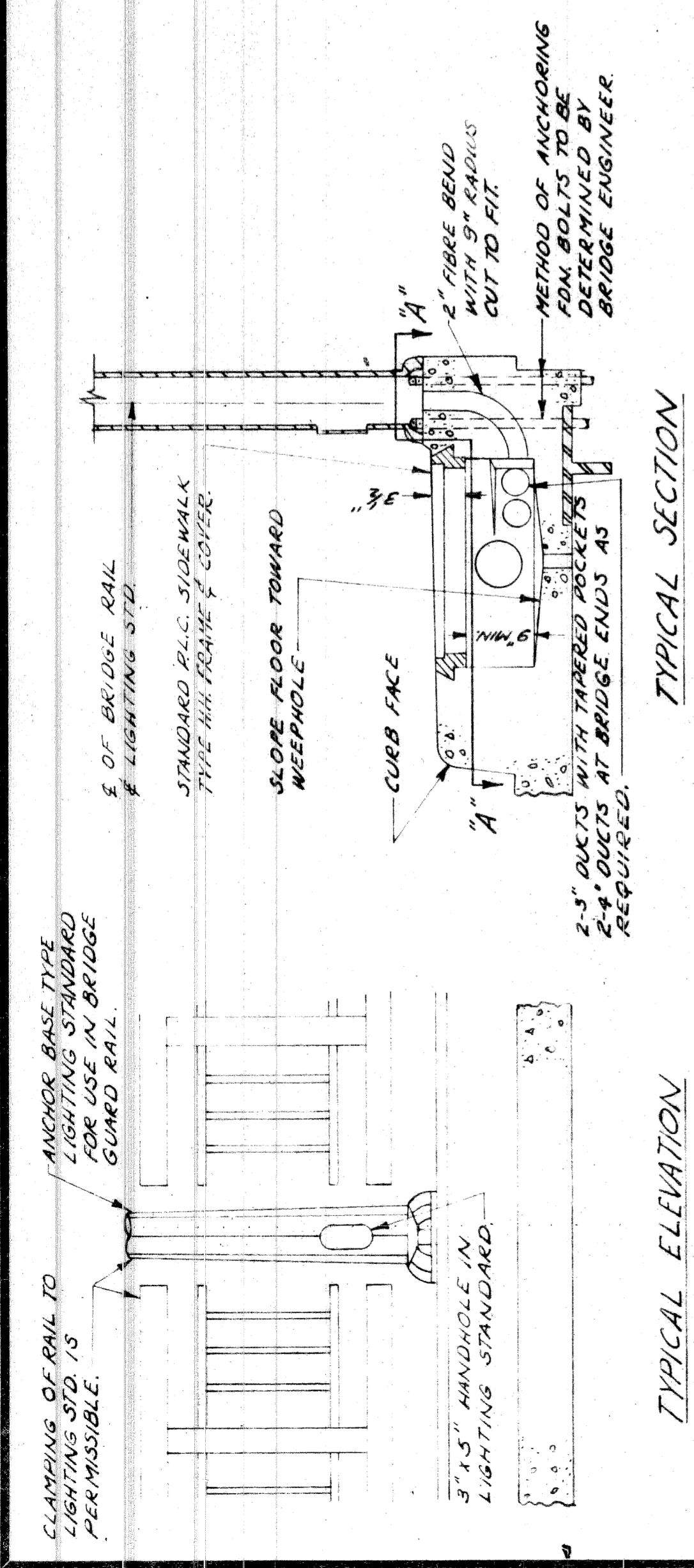
REVISIONS

NO.	DESCRIPTION	DATE	BY
1	HUBBARD NO. 3950, 3955, 3959	6-27-47	G.C.
2	REVISIONS	8-28-47	G.C.
3	REVISIONS	8-28-47	G.C.

W-57-1

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

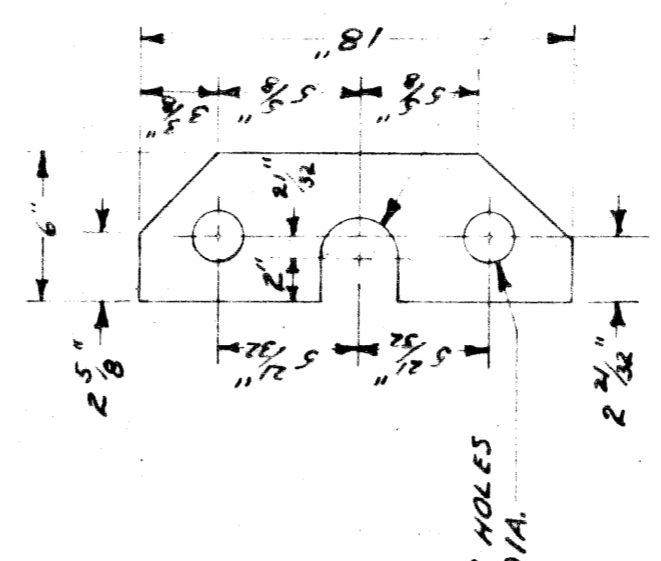
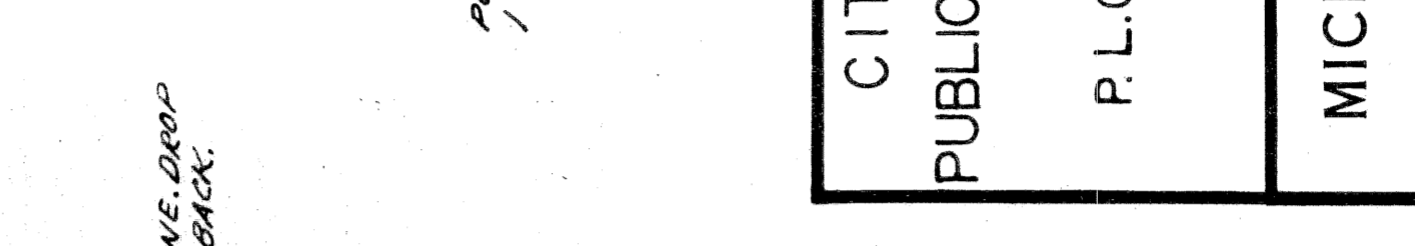
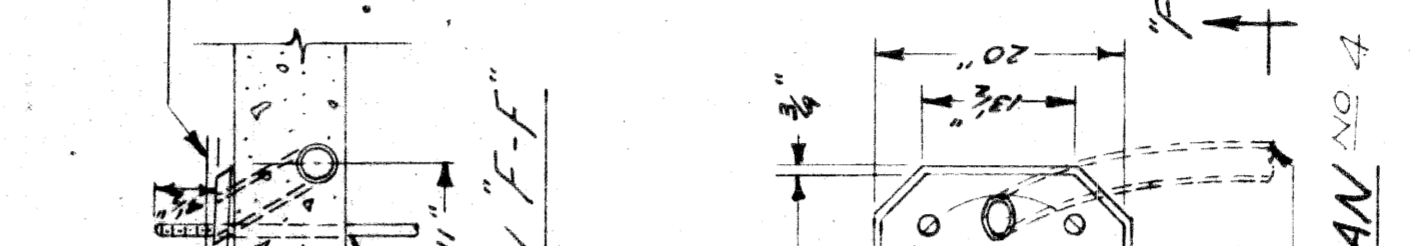
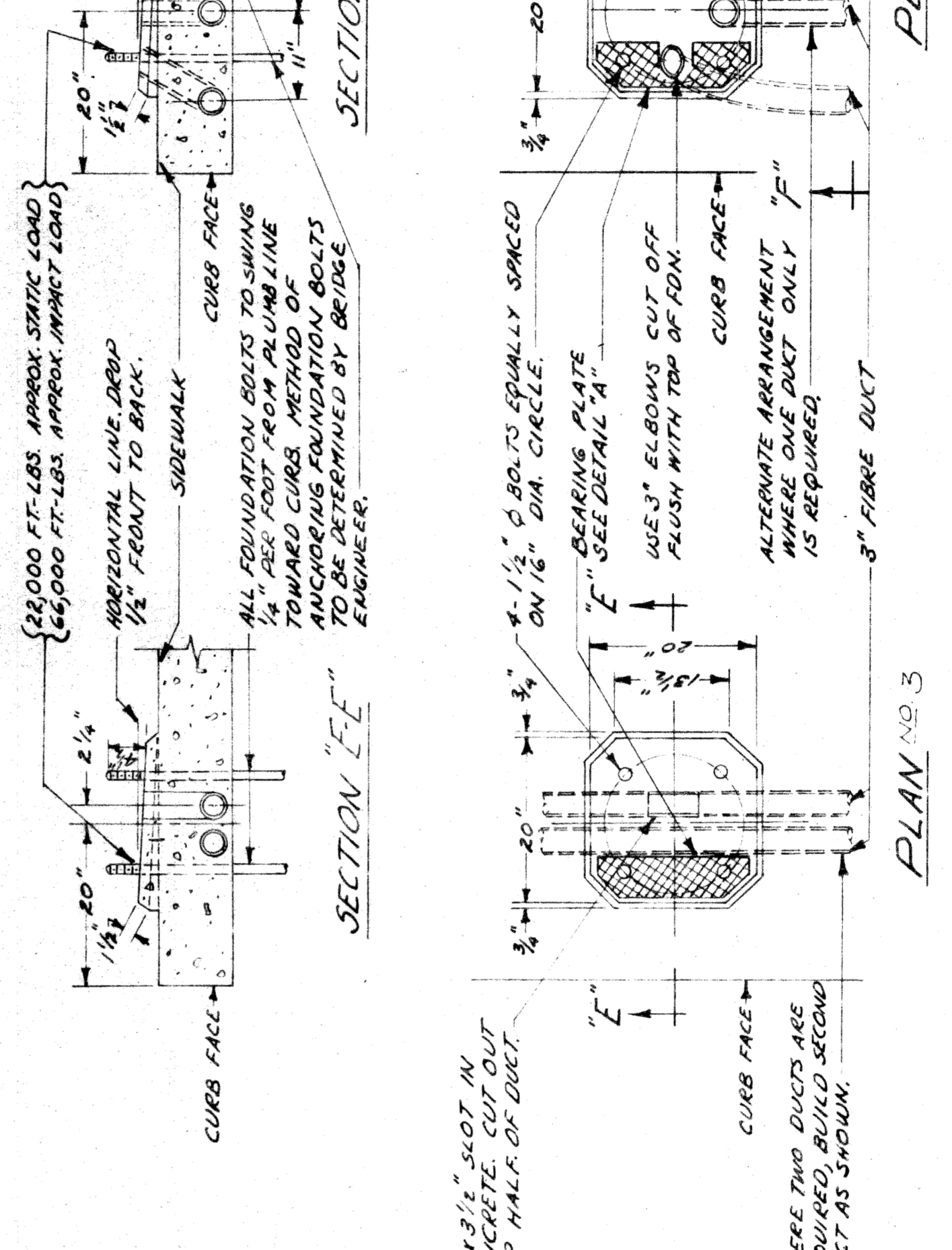
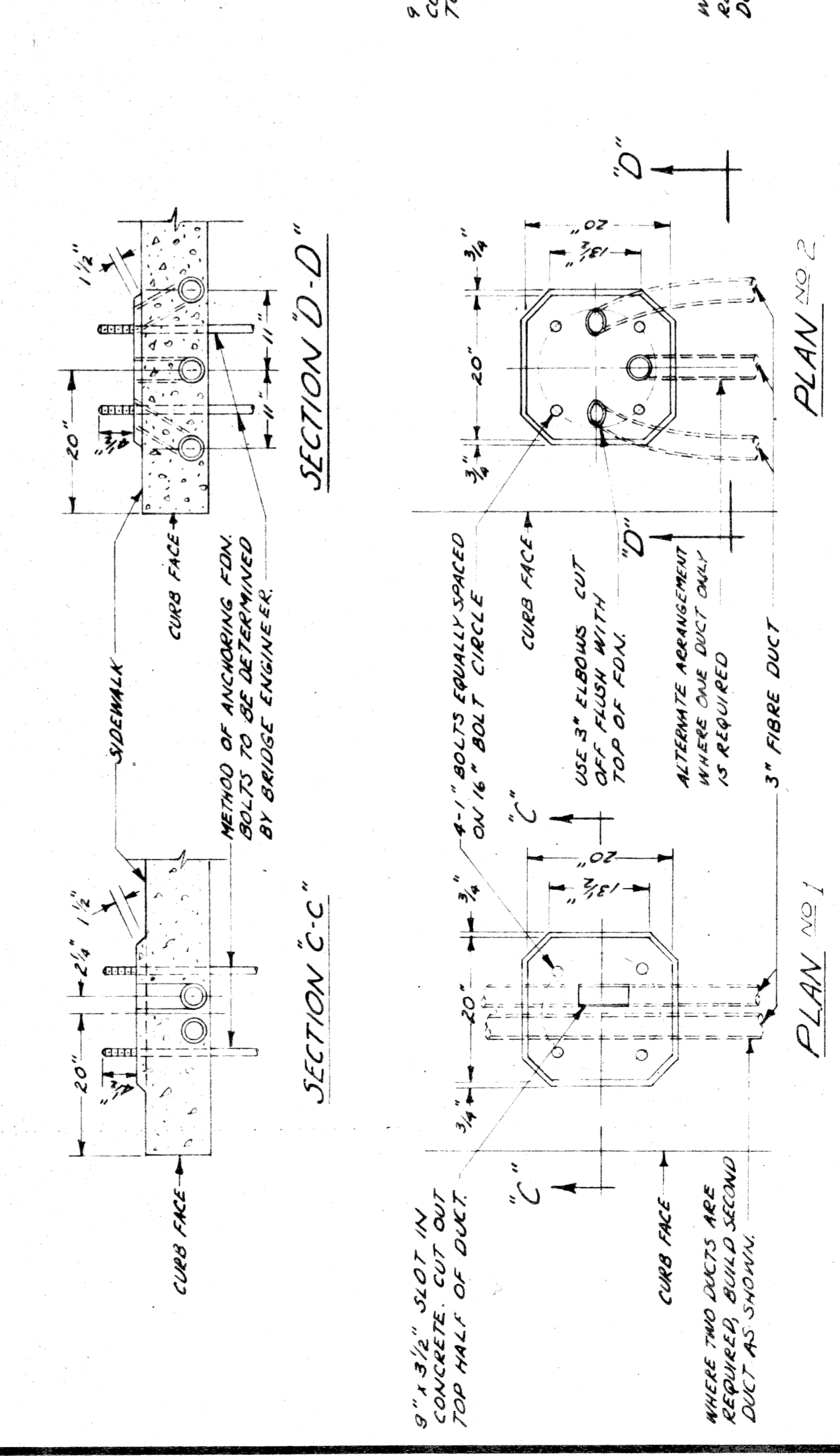
DATE	BY	REVISIONS



**BRIDGE RAIL LIGHTING STANDARD INSTALLATION**

**BRIDGE RAIL LIGHTING STANDARD INSTALLATION (WITH BUMPER RAIL)**

**MATERIAL**  
 1/4" FLAT MILD STEEL



DESIGNED BY	D.J.N.	FILE NO.	55-3
CHECKED BY		SHEET NO.	15
APPROVED BY		DATE	5-6-55

CITY OF DETROIT  
 PUBLIC LIGHTING COMMISSION  
 P.L.C. DETAILS - MISCELLANEOUS

MICHIGAN STATE HIGHWAY DEPARTMENT

APPROVED: \_\_\_\_\_  
 CHIEF BRIDGE DRAFTSMAN  
 APPROVED: \_\_\_\_\_  
 ENGINEER OF BRIDGE DESIGN  
 APPROVED: \_\_\_\_\_  
 BRIDGE ENGINEER

REVISIONS:  
 NO. DESCRIPTION DATE BY  
 1 CORRECTED TO SHOW 2" DIA. BOLT CIRCLE 3-24-55 P.S.P.

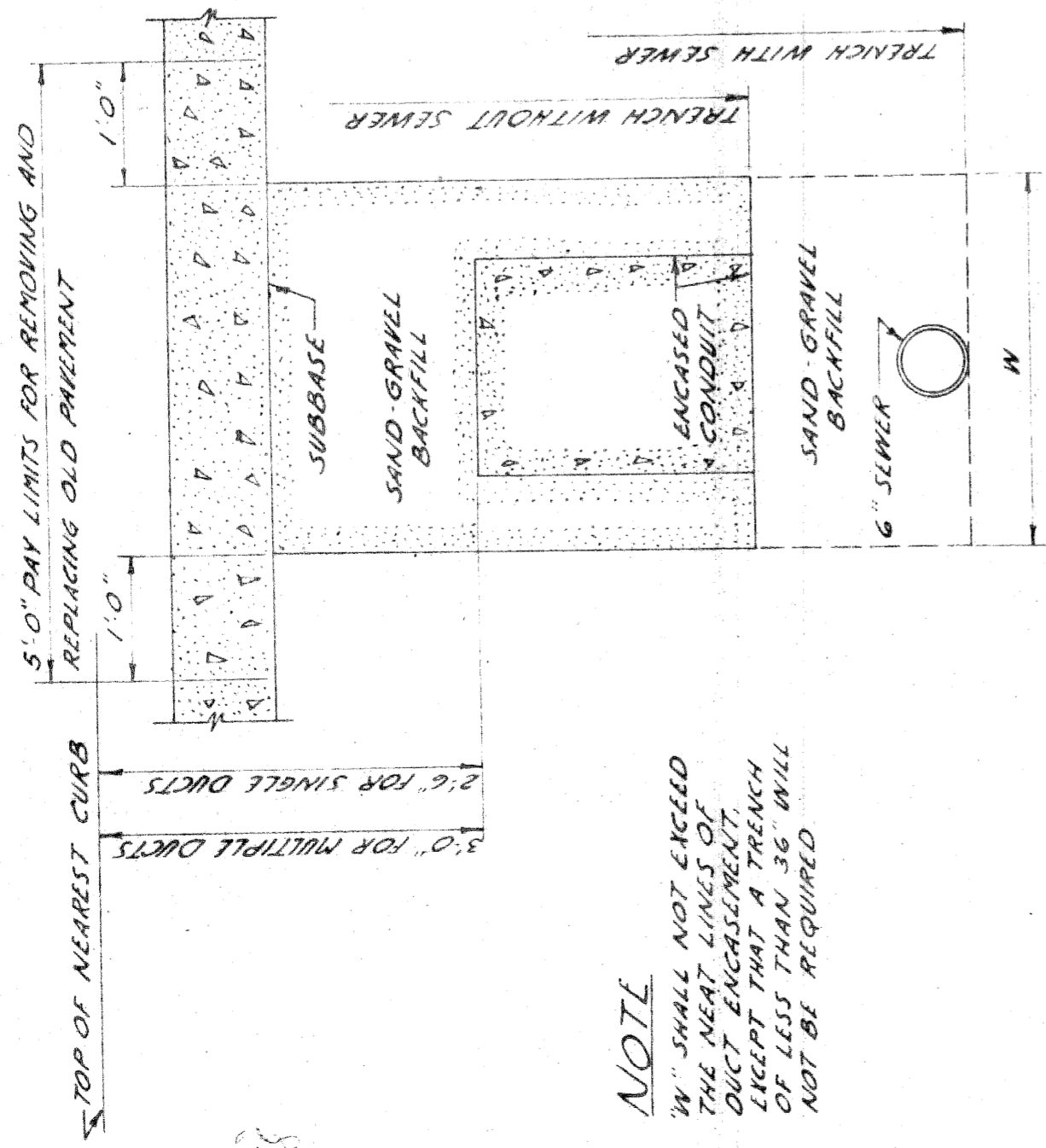
LAMP POST FOUNDATION ON BRIDGE FOR 18" SQ. BASE LIGHTING STANDARD

LAMP POST FOUNDATION ON BRIDGE FOR 18" SQ. BASE D.S.R. COMBINATION STANDARD

CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 PLANS PREPARED BY

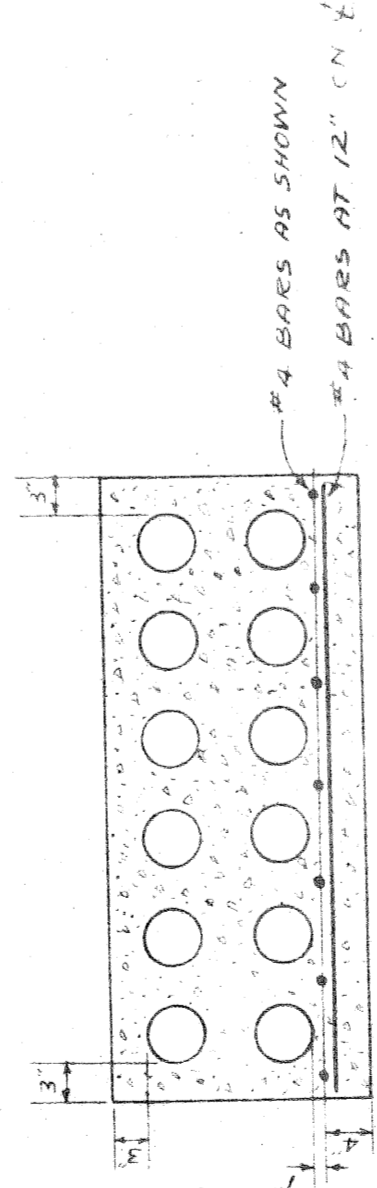
BUREAU OF HIGHWAYS AND EXPANSIONS  
 CHECKED BY  
 RECOMMENDED FOR APPROVAL

W-57-1

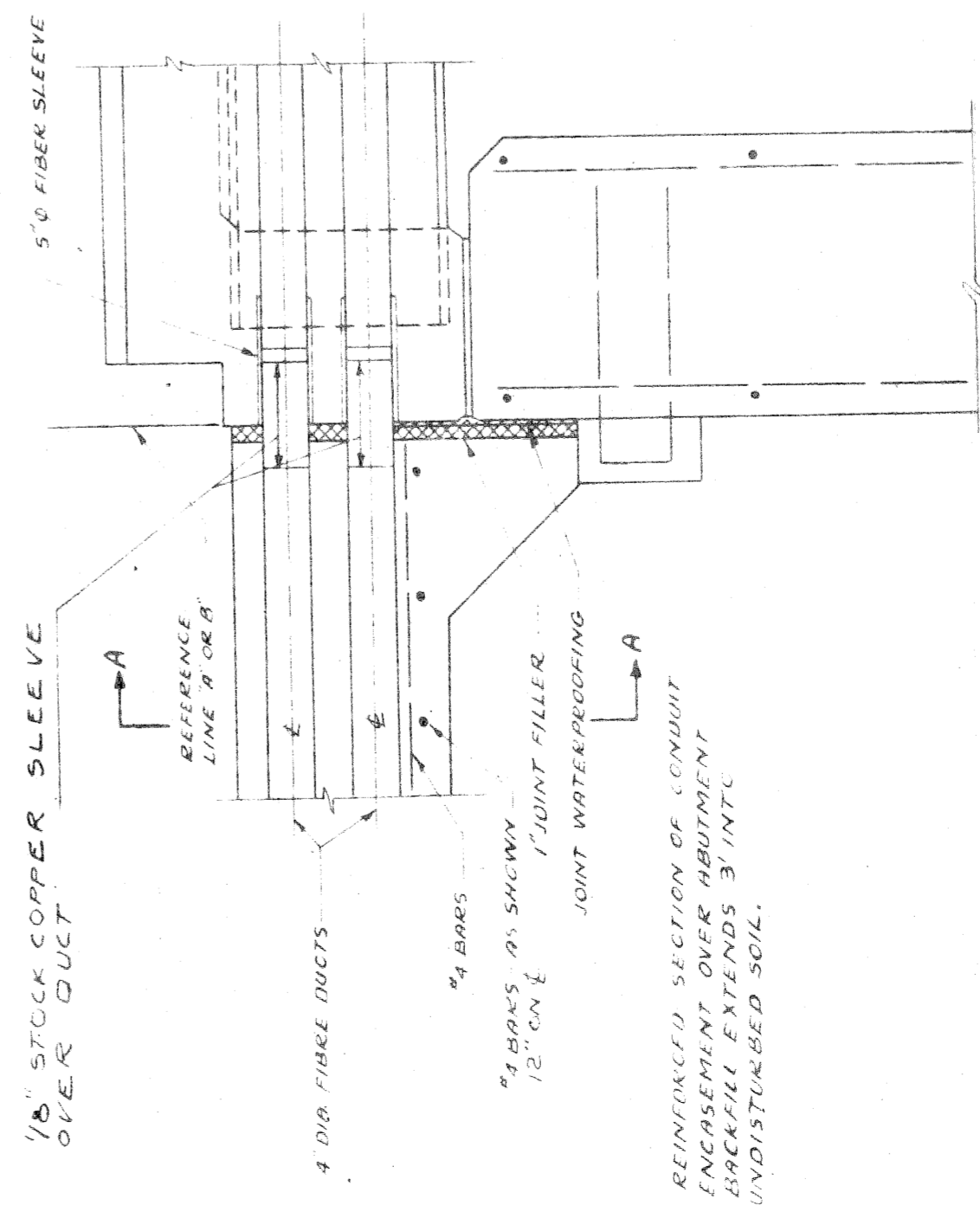


TYPICAL SECTION OF TRENCH  
SCALE 3/4" = 1'-0"

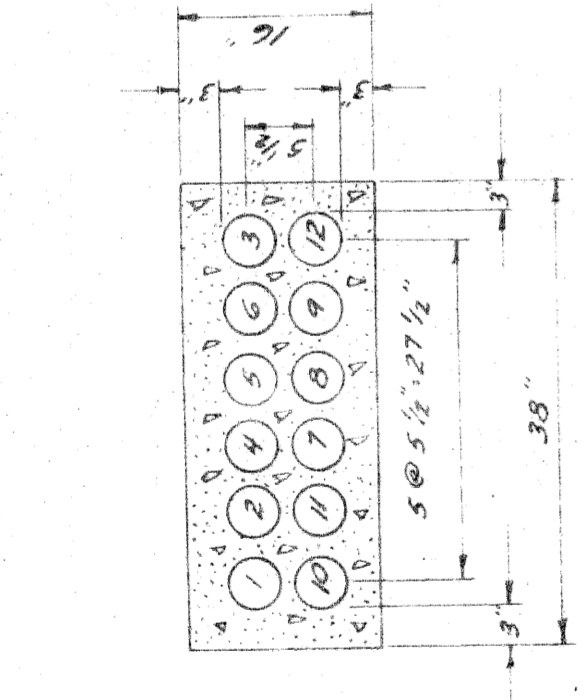
NOTE  
1/2" SHALL NOT EXCEED THE NEAT LINES OF DUCT ENCASUREMENT. EXCEPT THAT IN A TRENCH DEPT. THAN 3' A TRENCH SHALL NOT BE REQUIRED



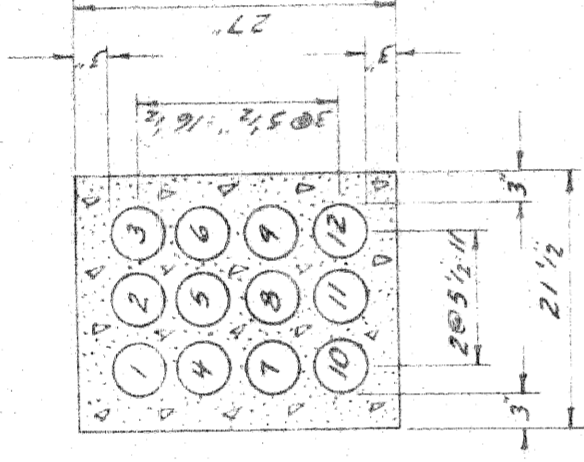
SECTION A-A



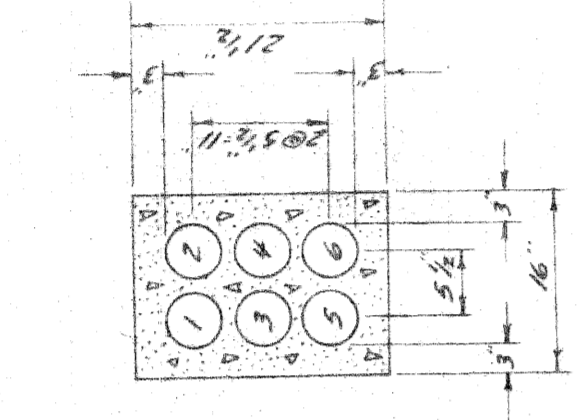
SECTION THROUGH BACKWALL  
SHOWING SUPPORTS FOR 12-4" DIA.  
ENCASED CONDUIT AND EXPANSION JOINTS



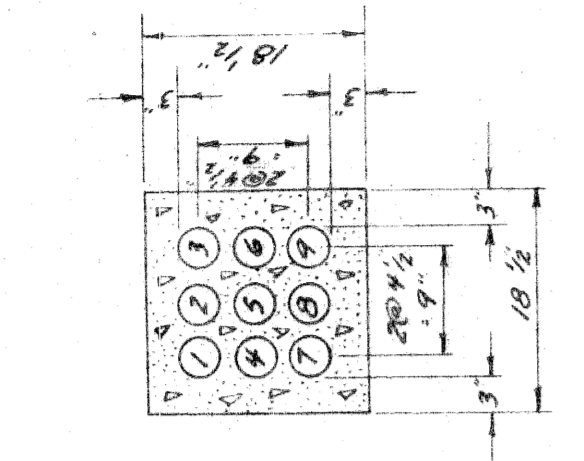
12-4" IN BRIDGE APPROACH



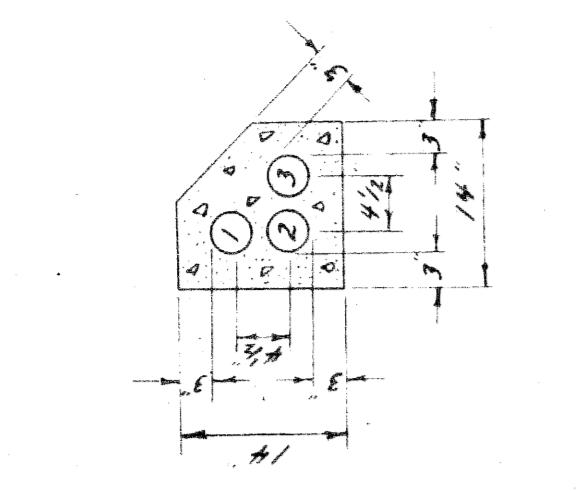
12-4" DUCTS



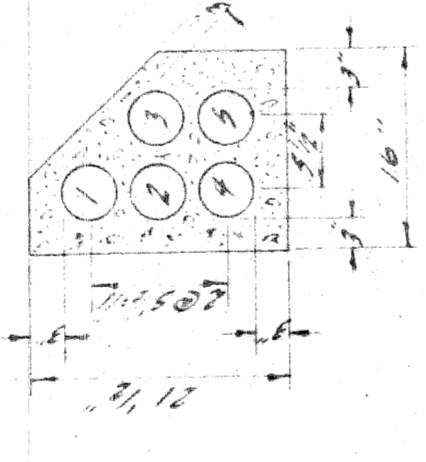
6-4" DUCTS



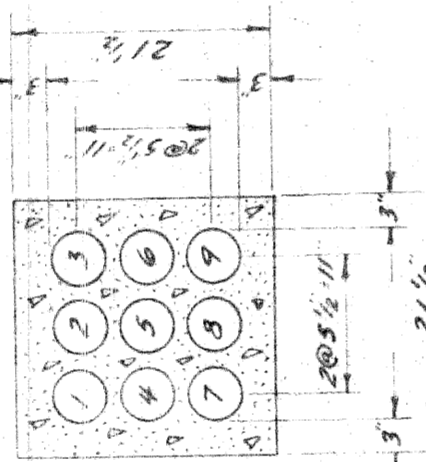
9-3" DUCTS



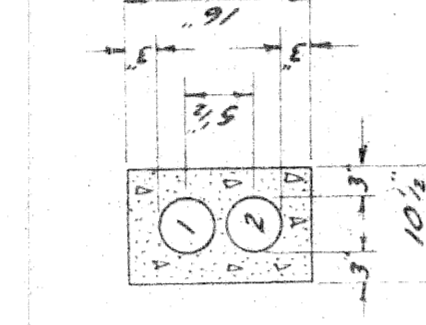
3-3" DUCTS



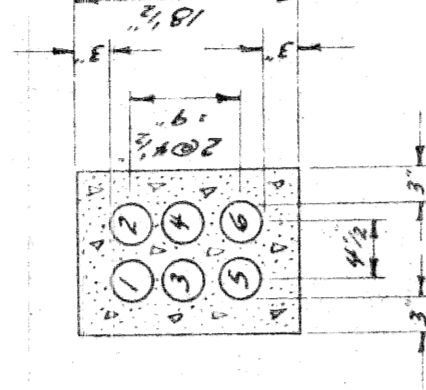
5-4" DUCTS



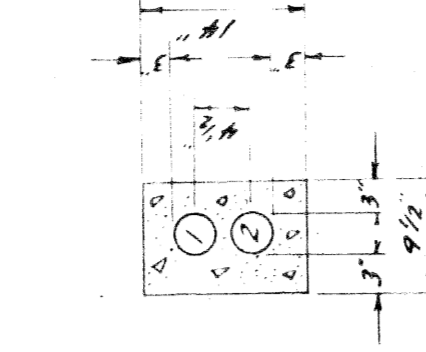
9-4" DUCTS



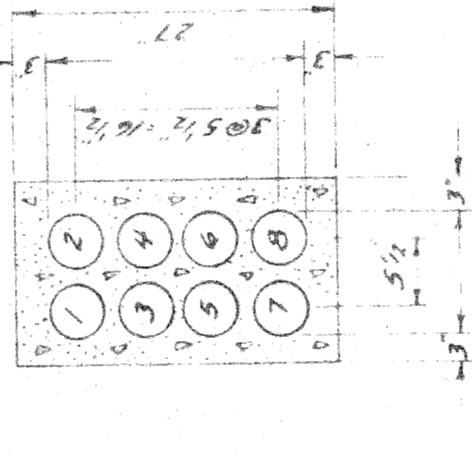
2-4" DUCTS



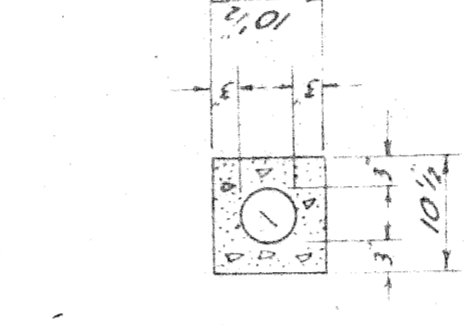
6-3" DUCTS



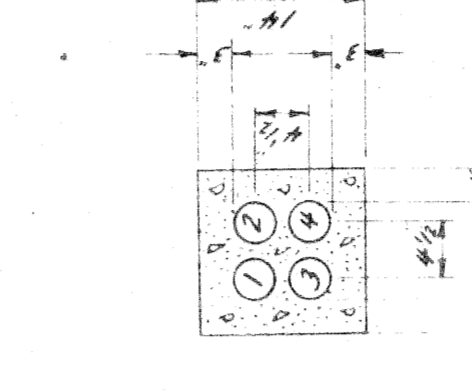
2-3" DUCTS



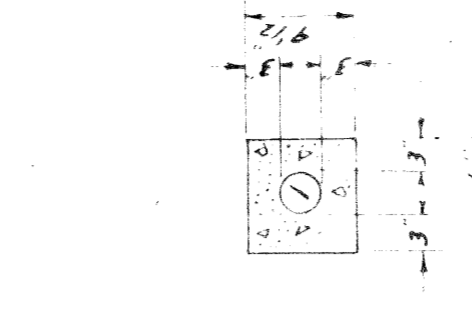
8-4" DUCTS



1-4" DUCT



4-3" DUCTS



1-3" DUCT

TYPICAL DUCT SECTIONS  
SCALE 3/4" = 1'-0"

CITY OF DETROIT  
PUBLIC LIGHTING COMMISSION  
P.L.C. DETAILS  
MISCELLANEOUS DUCT SECTIONS

MICHIGAN STATE HIGHWAY DEPARTMENT

FILE NO. 55-3B  
DRAWN BY DJN  
CHECKED BY [Signature]  
APPROVED BY [Signature]  
DATE 7-10-53

APPROVED [Signature] CHIEF BRIDGE DRAFTSMAN  
APPROVED [Signature] ENGINEER OF BRIDGE DESIGN  
APPROVED [Signature] BRIDGE ENGINEER

NO. 1  
REVISIONS  
DATE 1/18/54  
BY [Signature]  
DESCRIPTION ADDED 1-2" DIA. DUCTS  
NO. 2  
DATE 2-29-54  
BY [Signature]  
DESCRIPTION 1/2" DIA. 3-4" DIA. TRENCH BACKFILL EXTENDS 3' INTO UNDISTURBED SOIL.

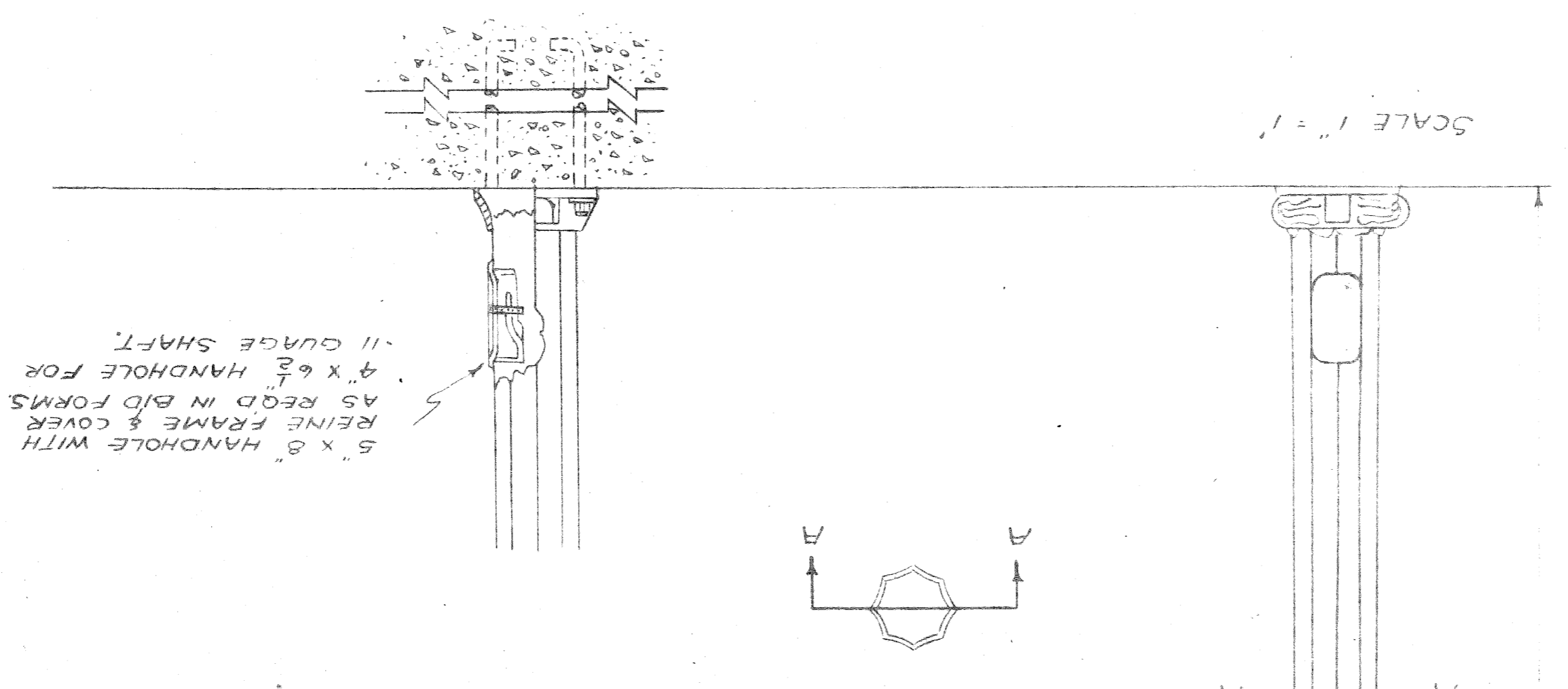
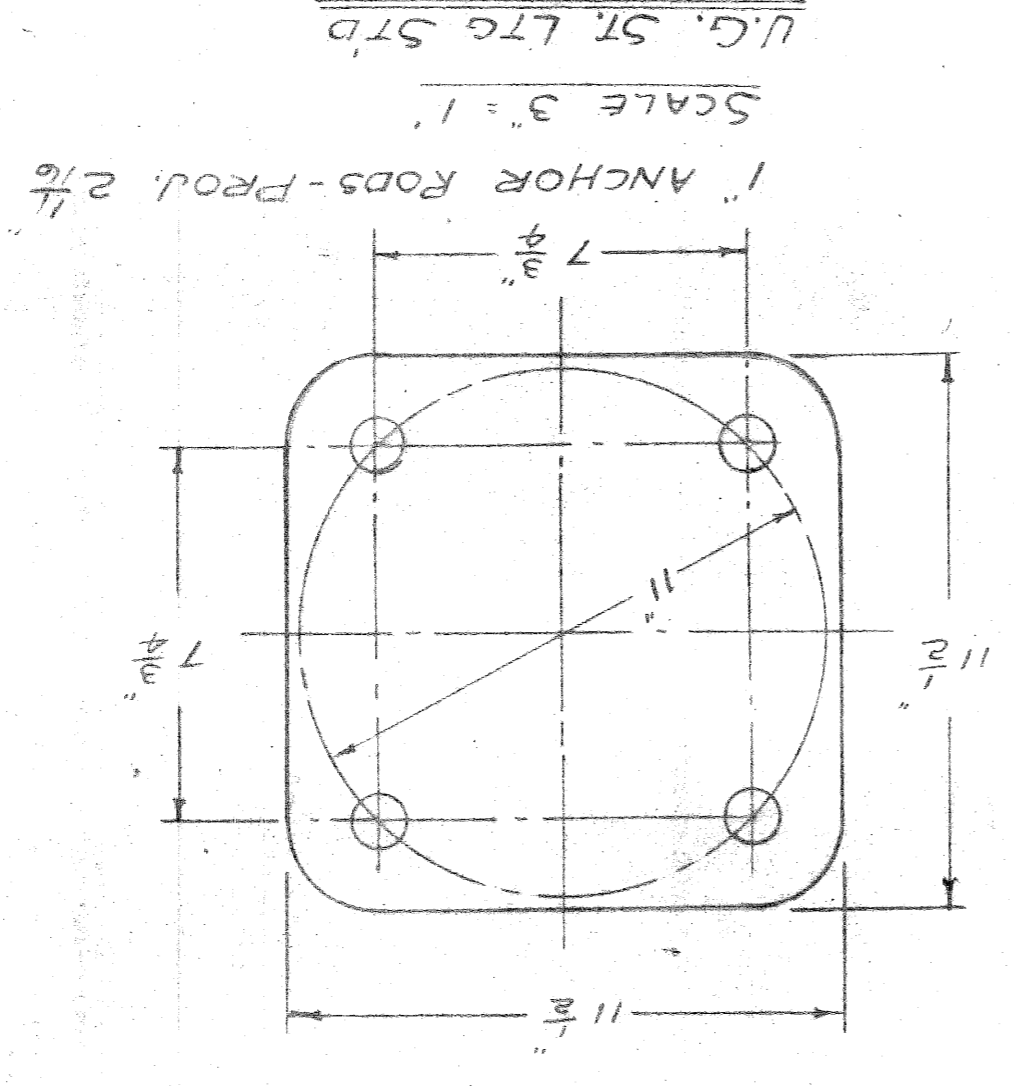
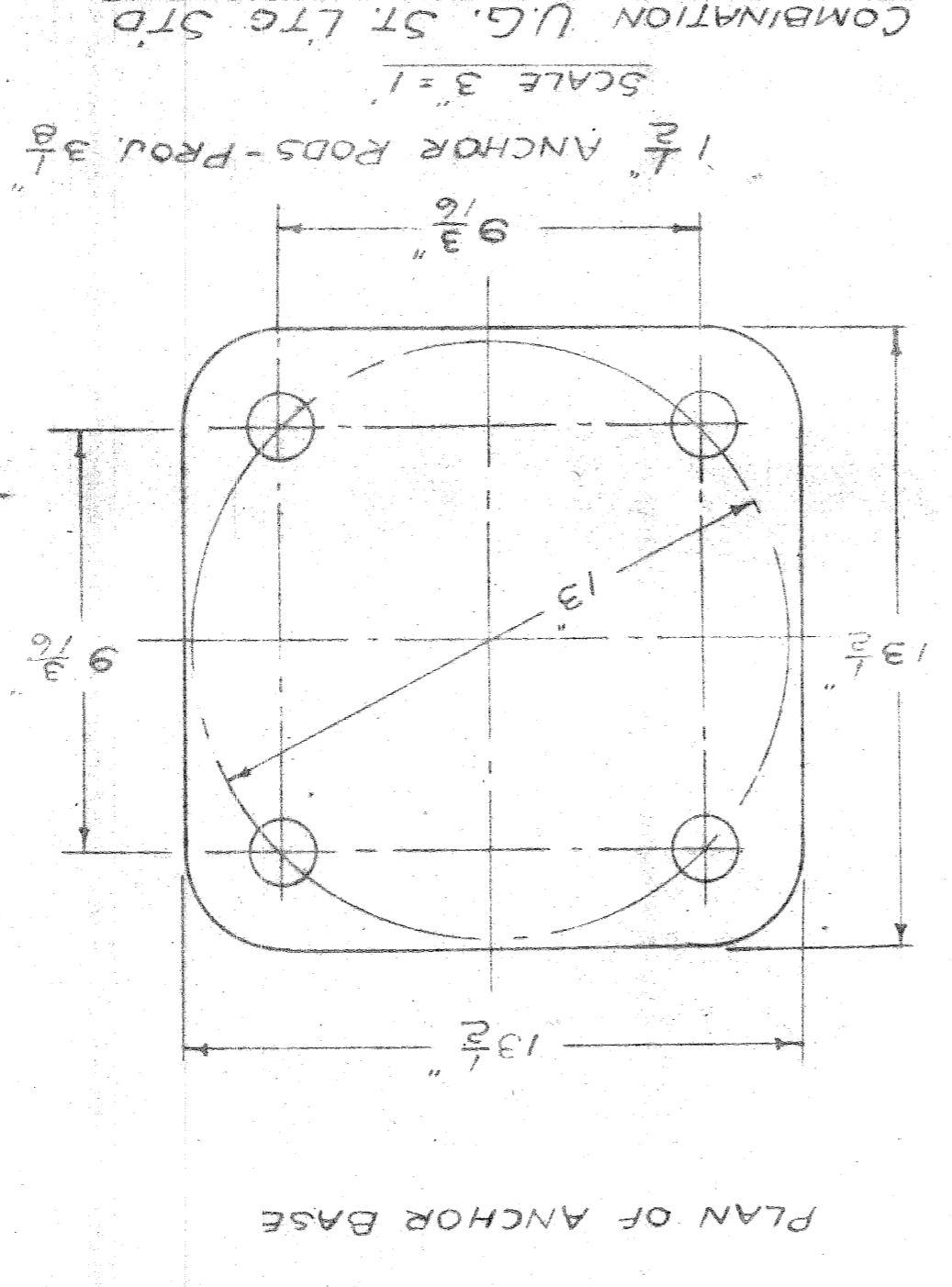
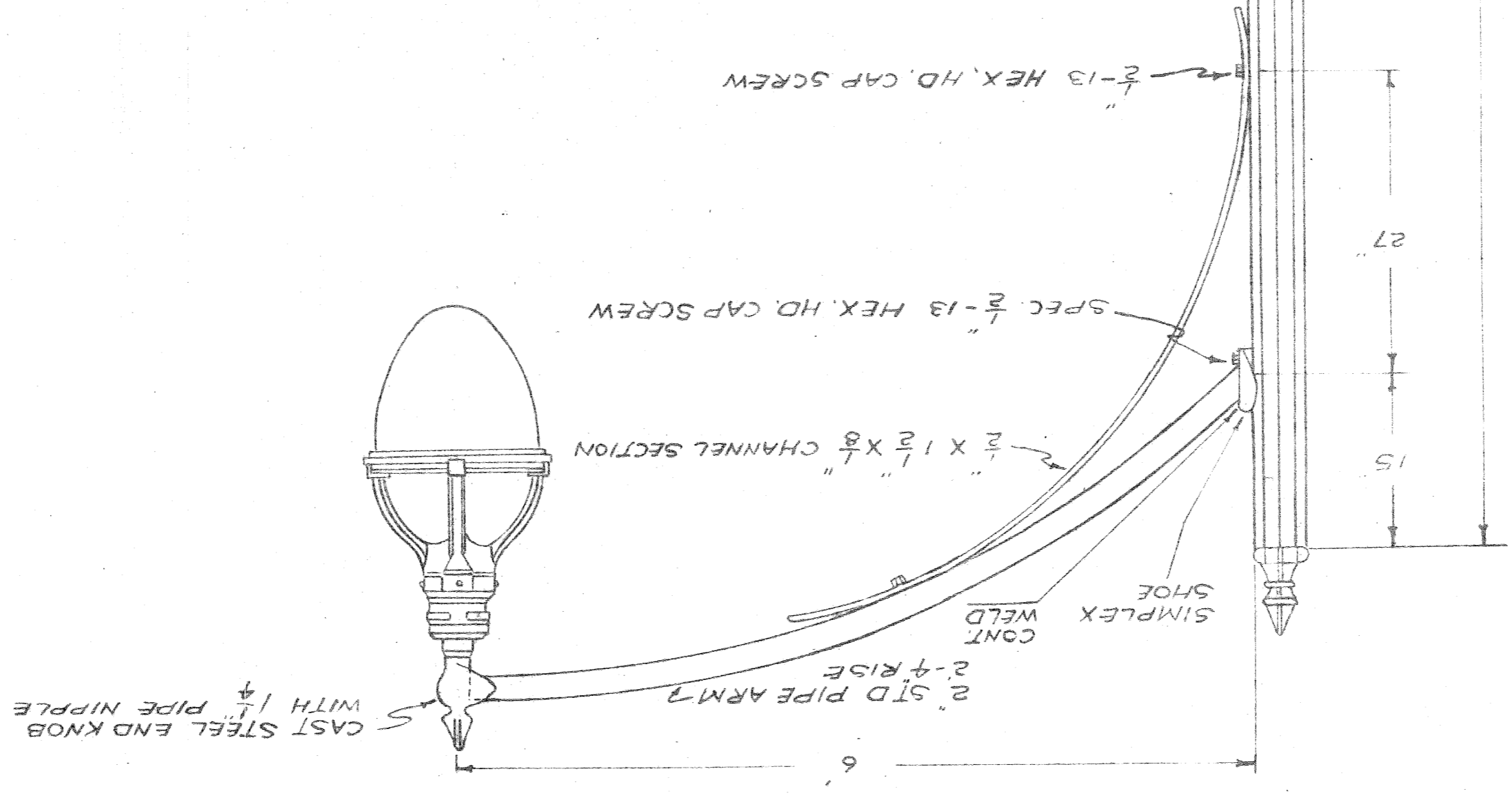
STANDARD SHEET NO. 92 OF W-57-1

DESIGNED	BY	DATE
CHECKED		
RECOMMENDED FOR APPROVAL		

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS AND EXPRESSWAYS  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE	87
REVISIONS	
RECOMMENDED FOR APPROVAL	
SIGNATURE	
DATE	



FOR COMB. U.G. STD. SHAFT-0.5" x 5.3" x 30'-0" - 3 GA.  
 OR  
 FOR U.G. STD. SHAFT-8" x 38" x 30'-0" - 11 GA.

MICHIGAN STATE HIGHWAY DEPARTMENT

DRAWN BY	FILE NO.
M.J.C.	55-3
CHECKED BY	SHEET NO.
	38
APPROVED BY	DATE
	8-20-58

CITY OF DETROIT  
 PUBLIC LIGHTING COMMISSION  
 STREET LIGHTING STANDARD

APPROVED  
 CHIEF BRIDGE DRAFTSMAN

APPROVED  
 ENGINEER OF BRIDGE DESIGN

APPROVED  
 BRIDGE ENGINEER

W-57-1