

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS

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

B.P.R. DIV. NO.	STATE	JOB NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	03187A		1	43
STREET	CITY	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS
	DETROIT	WAYNE		1	43

IN CO-OPERATION WITH MICHIGAN DEPARTMENT OF STATE HIGHWAYS

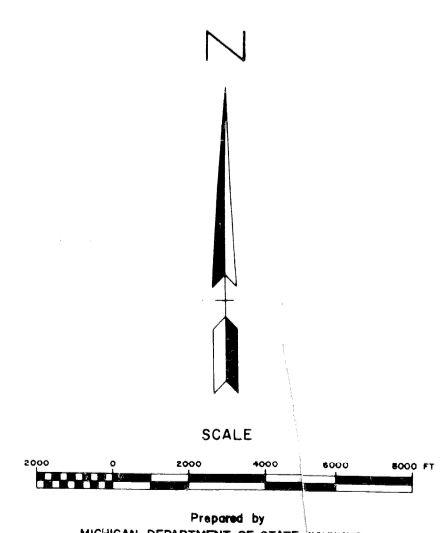
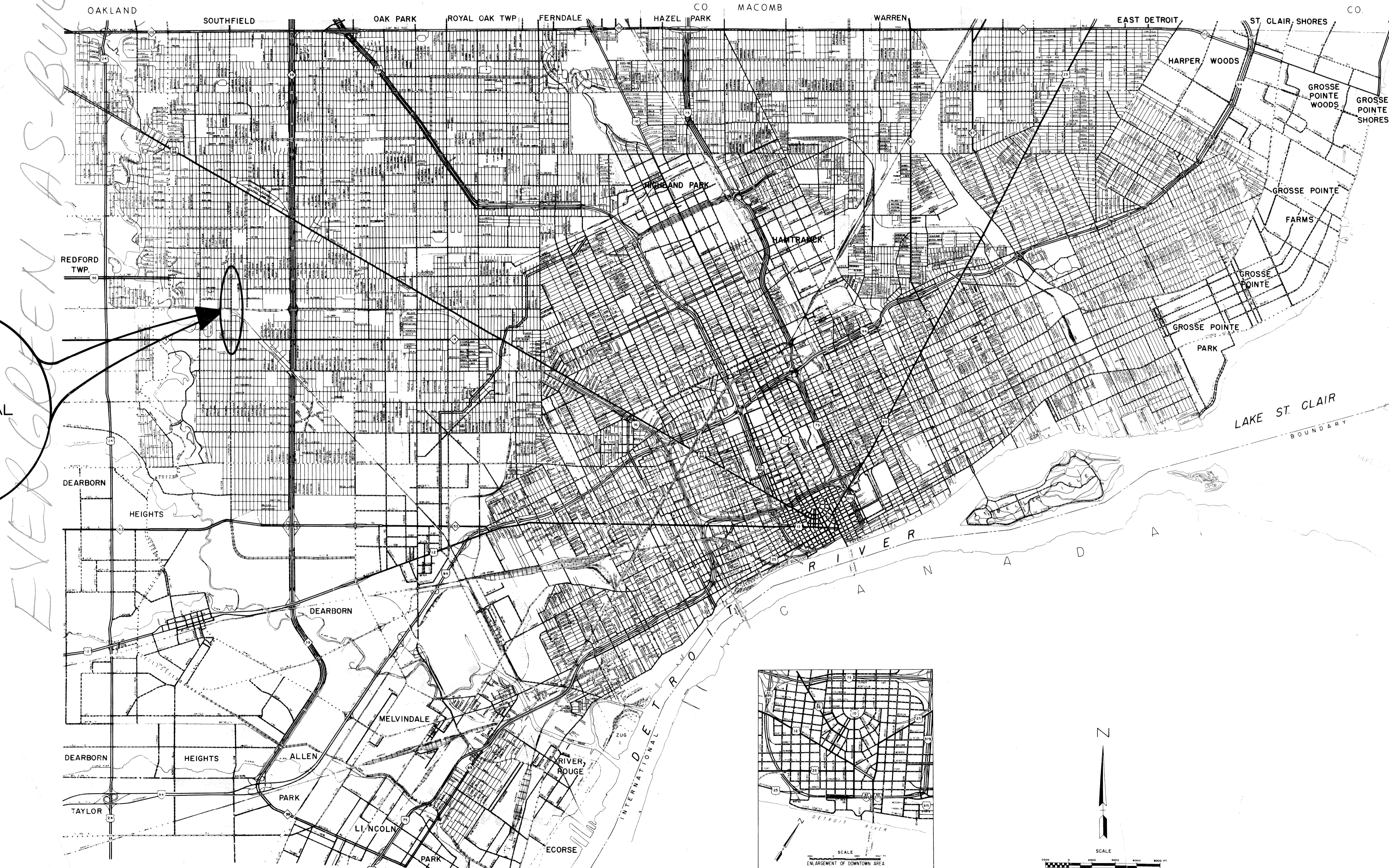
AND FEDERAL HIGHWAY ADMINISTRATION

PLAN AND PROFILE OF PROPOSED FEDERAL AID TOPICS PROJECT NO. MICHIGAN T 4000 (7) JOB NUMBER 03187A

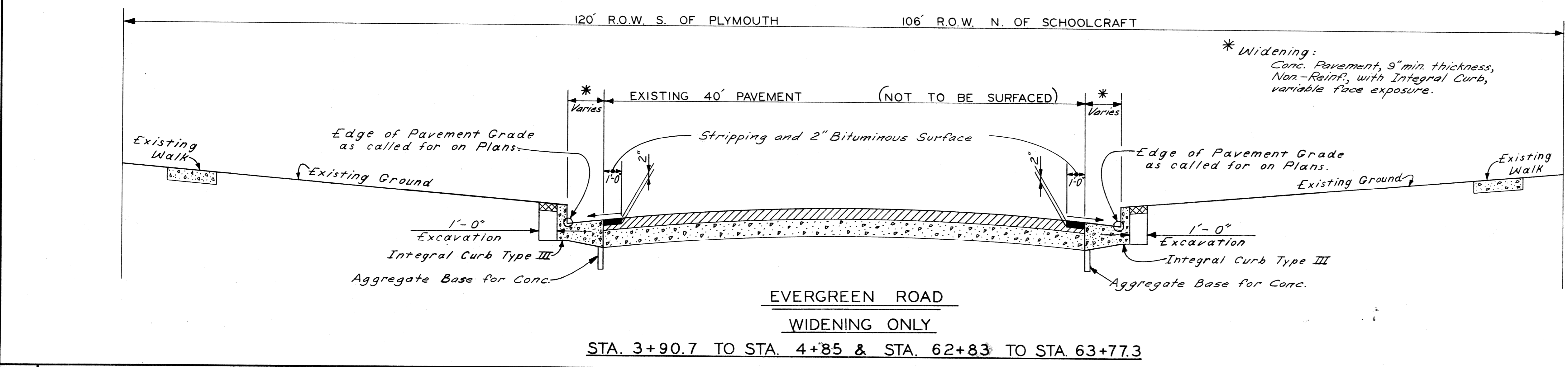
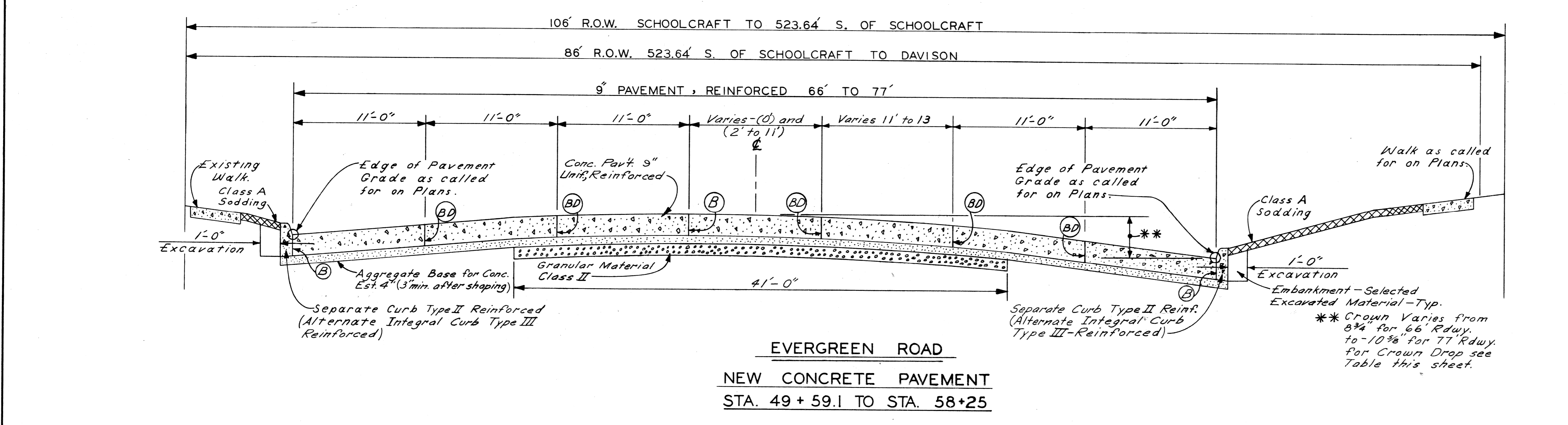
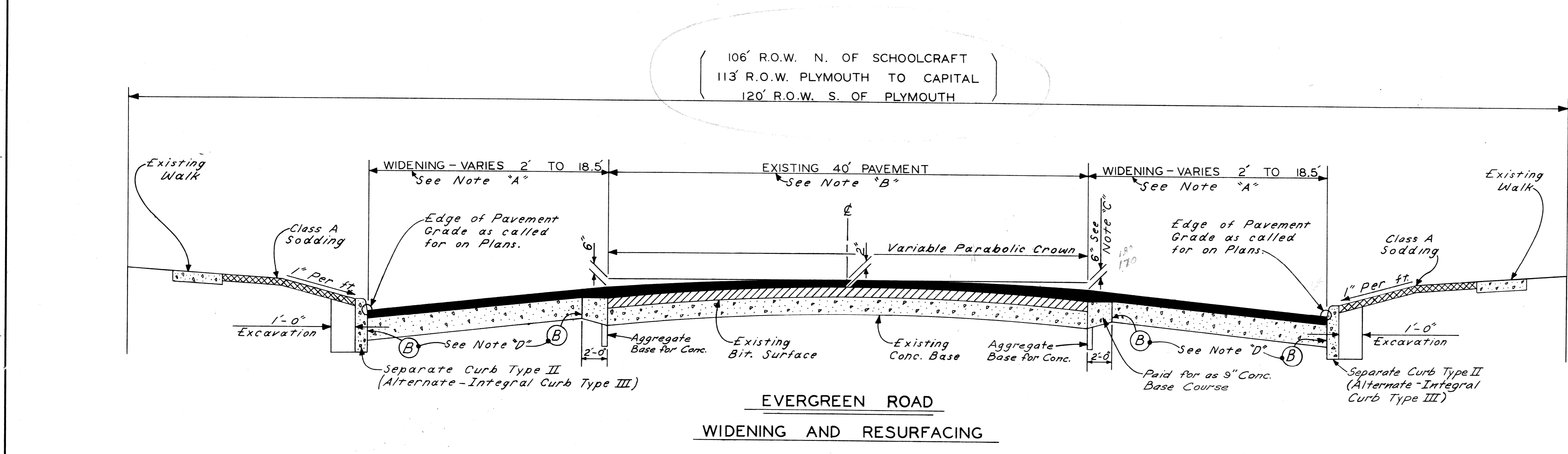
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 2. GENERAL PLAN
 3. TYPICAL CROSS SECTIONS
 4. CONSTRUCTION SEQUENCE
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 11. DETAILED GRADE
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 14. WATER ALTERATIONS
 - 15-18. SPECIAL & MISC. DETAILS
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STANDARD PLANS

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CONTRACT FOR PAVEMENT WIDENING AND RESURFACING	
LOCAL AUTHORITY APPROVAL CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS GOVERNMENTAL AGENCY	
RECOMMENDED FOR APPROVAL	DATE
BY <u>[Signature]</u> HIGHWAY ENGINEER	Feb. 23, 1972
APPROVED BY <u>A. P. Hicks</u> ASST. CITY ENGINEER	Feb. 23, 1972
APPROVED BY <u>[Signature]</u> CITY ENGINEER	Feb. 23, 1972
LOCAL AUTHORITY APPROVAL CITY OF DETROIT DEPARTMENT OF STREETS AND TRAFFIC GOVERNMENTAL AGENCY	
APPROVED BY <u>[Signature]</u> DIRECTOR OF DEPT. OF STREETS & TRAFFIC	DATE
RECOMMENDED FOR APPROVAL	
BY <u>[Signature]</u> ENGINEER OF TRAFFIC AND SAFETY	3-7-72
BY <u>[Signature]</u> CONSTRUCTION ENGINEER	3-29-72
BY <u>[Signature]</u> F.A.S. ENGINEER	3/29/72
PLANS CHECKED BY <u>[Signature]</u>	3-7-72
DEPARTMENT OF STATE HIGHWAYS APPROVAL APPROVED FOR COMMISSION	
BY <u>[Signature]</u> DEPUTY DIRECTOR	3/29/72
PREPARED UNDER SUPERVISION OF	
<u>R. P. Hicks</u> REGISTERED PROFESSIONAL ENGINEER	8435 REGISTRATION NO.
CITY OF DETROIT ORGANIZATION	
DETROIT, MICHIGAN ADDRESS	
(SEAL)	
U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
<u>[Signature]</u> DISTRICT ENGINEER	DATE



GENERAL NOTES:

Note "A"
9" Conc. Base Course, Non-Reinf., with 2" Bituminous Surface:
Bituminous Bond Coat
1" Bit. Conc. Leveling Course 25A.
1" Bit. Conc. Wearing Course Type F.

Note "B"
The new Bituminous Surface on the exist. pavt. shall consist of:
Bituminous Bond Coat.
1" Min. 2 1/2" Max. Bit. Conc. Leveling Course 25A.
1" Bit. Conc. Wearing Course Type F.

Where Bituminous Surfacing Thickness is greater than 3 1/2", apply layers of Bit. Conc. Wearing Course Type F, Bit. Conc. Leveling Course 25A and Bit. Conc. Binder Course 9A as directed by the Engineer. 43 Tons of Bit. Conc. Binder Course 9A have been estimated for this purpose.

Note "C"
5" North of Schoolcraft, East side only.

Note "D"
For the proposed widening of the existing concrete pavement, transverse joints in the widening shall be placed in line with like joints in the existing pavement.

Spacing of contraction joints in nonreinf. conc. pavt. shall be approx. 20' for natural aggregate and 15' for slag aggregate.

Pavement Joint Legend

B - Longitudinal Bulkhead Construction Joint, according to Detail 2 on Standard II-39A.

D - Longitudinal Lane Tie Joint with Tie-Bars, according to Detail 1 on Standard II-39A.

BD - Optional B or D.

Note - Class A slopes will be required on this project

**CROWN TABLE FOR EVERGREEN
Sta. 49+59.1 to Sta. 58+25**

Dist. from E in feet	Crown in inches	Dist. from E in feet	Crown in inches	Dist. from E in feet	Crown in inches
1	1/4	14	2 1/2	27	6 3/4
2	1/4	15	2 3/4	28	7
3	1/4	16	3	29	7 1/2
4	3/4	17	3 1/2	30	7 3/4
5	1/2	18	3 3/4	31	8
6	3/4	19	4	32	8 1/2
7	7/8	20	4 1/4	33	8 3/4
8	1 1/8	21	4 3/4	34	9
9	1 1/4	22	5	35	9 1/2
10	1 1/2	23	5 1/4	36	9 3/4
11	1 3/4	24	5 3/4	37	10
12	2	25	6	38	10 1/2
13	2 1/4	26	6 1/4	38.5	10 3/4

Crown Formula: $y = 0.0004x^2$
Crown Drop for distances greater than 21 is 0.028411 ft./ft.

Bituminous Surf. Materials

Item	Rate of Application	Estimated Thickness	Asphalt Penetration
Bit. Conc. Leveling Crse 25A	100 lbs./sq. yd.	1 inch	85-100
Bit. Conc. Wearing Crse Type F	110 lbs./sq. yd.	1 inch	85-100
Bit. Binder Course	170 lbs./sq. yd.	1 1/2 inches	85-100
Bit. Bond Coat	0.20 gal./sq. yd.		

Bituminous Bond Coat 20-70 may be used in lieu of 25-1h, MS-2a and SS-1h on this project where thru traffic is deflected from the construction area. The contractor, however, is cautioned of the flammable characteristic of this material and shall take precautions when using the same.

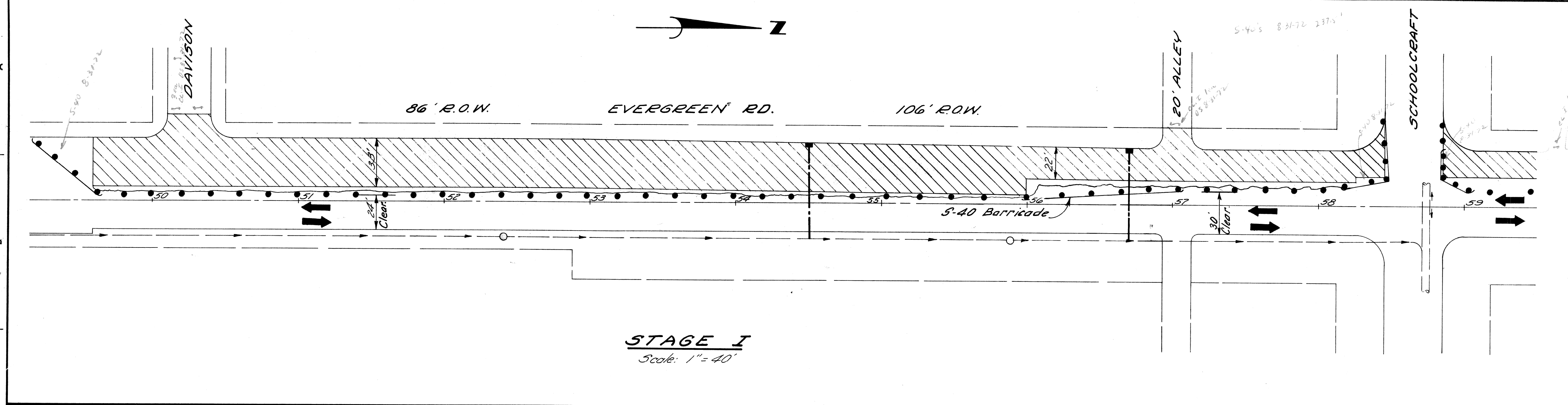
Note - If Blast-furnace slag is used for bituminous aggregate, the rate of application in pounds per sq. yd. shall be reduced by 5% from that shown on the plans.

DESIGNED BY		APPROVED:	<i>Allen E. King</i> ENGINEER OF EXPRESSWAYS
DRAWN BY	J.D./R.B.	CHECKED BY	R. Plater
TRACED BY			
COORD.			
DESCRIPTION			
REVISIONS LOCATED BY COORDINATES ON SHEET			

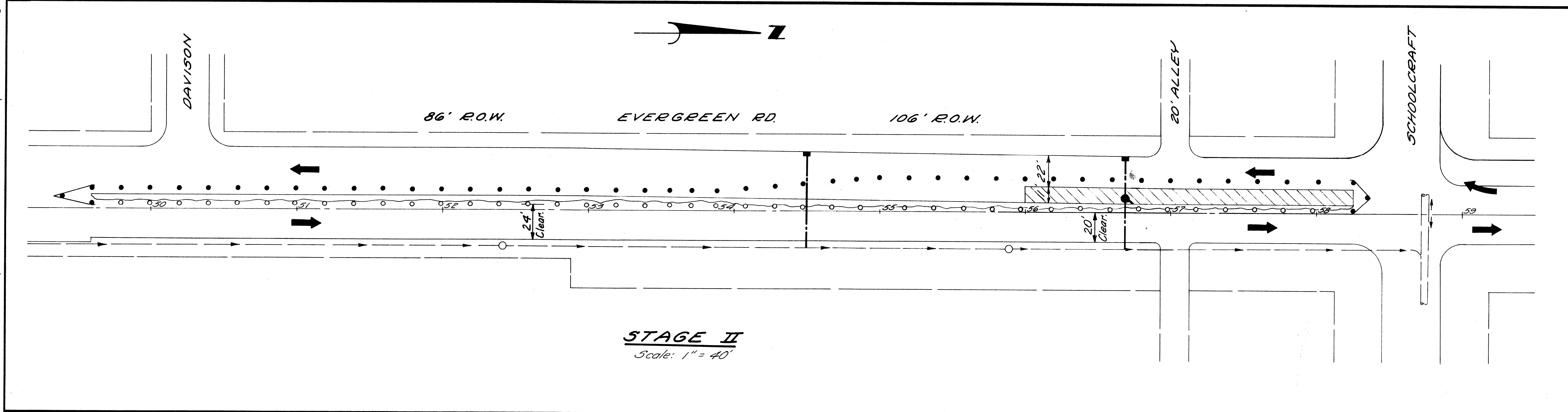
**CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE**

TYPICAL CROSS-SECTIONS
EVERGREEN ROAD
WIDENING AND RESURFACING

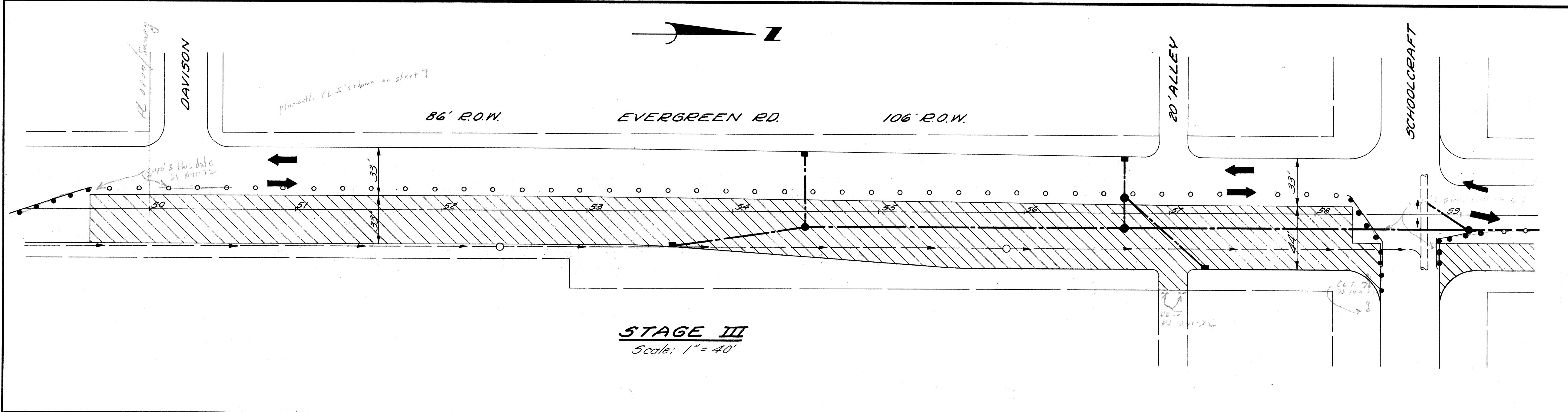
SHEET	3	OF	43	SHEETS
PROJECT NO.	T4000 (7)			
JOB NO.	03187			
DATE	2-18-72			



STAGE I
Scale: 1" = 40'



STAGE II
Scale: 1" = 40'



STAGE III
Scale: 1" = 40'

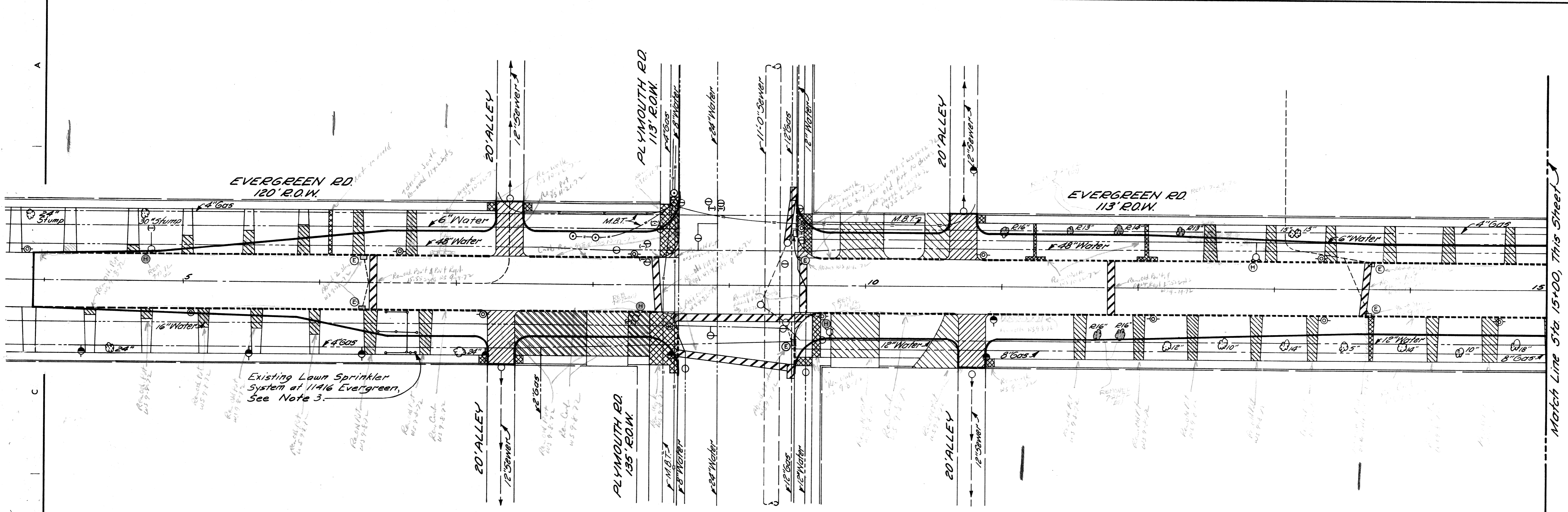
- STAGE I**
- Traffic on E. portion of exist. Evergreen Pavement South of Schoolcraft and on Existing Evergreen Pavt North of Schoolcraft.
 - Drain proposed west catch basins @ Sta 54+50 and Sta 56+70 temporarily into existing sewer on East Side of Evergreen. See Drainage Plan on Sh.# 9.
 - Construct West 33' of Proposed Evergreen Pavement from Sta 49+59.11 to Sta 56+00. Construct West 22' of Proposed Evergreen Pavement from Sta 56+00 to Schoolcraft.
 - Construct new concrete base pavement on West Side of Evergreen, North of Schoolcraft.

- STAGE II**
- Southbound traffic on new Evergreen Pavement. Northbound traffic on East Portion of Existing Evergreen Pavement.
 - Construct East 11' of West 33' of Proposed Evergreen Pavement from Sta 56+00 to Schoolcraft.
 - Build proposed Catch Basin "B" at Sta 56+70. See Drainage Plan on Sh.# 9.

- STAGE III**
- Two-Way traffic on newly constructed West 33' of Evergreen Roadway.
 - Construct Proposed Sewer in East Half of Evergreen Roadway.
 - Construct remainder of Evergreen Pavement, North and South of Schoolcraft. Complete the Surfacing of Evergreen North of Schoolcraft, and the Evergreen-Schoolcraft Intersection.

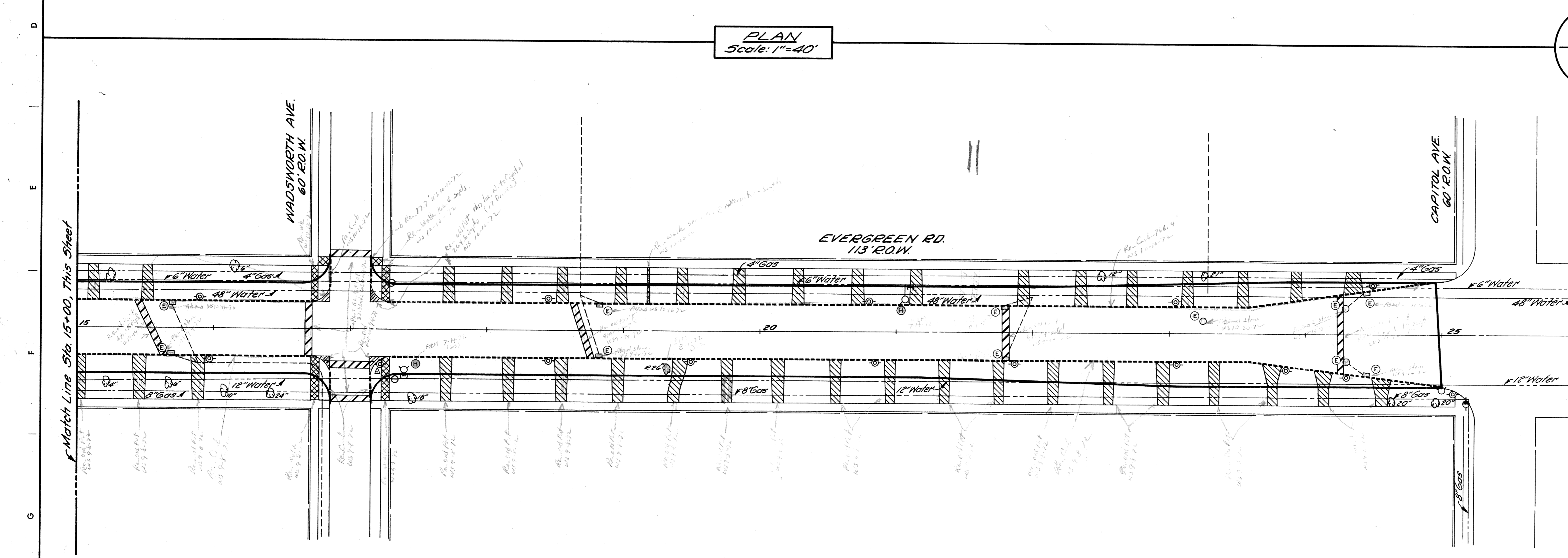
- LEGEND**
- Incidental Barricade
 - S-40 Barricade
 - ○ ○ Existing Incidental Barricade
- MAINTAINING TRAFFIC QUANTITIES FOR ENTIRE PROJECT**
- S-40 Barricades 675 Lin. Ft.
 - Class I Barricades 19 Each
 - Illuminated Target
 - Arrow Signs - Type A 2 Each

DESIGNED BY DRAWN BY M.A.P. TRACED BY CHECKED BY R. Plater		APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	CONSTRUCTION SEQUENCE EVERGREEN ROAD DAVISON TO SCHOOLCRAFT	SHEET 4 OF 43 SHEETS PROJECT NO. T4000 (7) JOB NO. 03187 DATE 2-18-72
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REMOVAL LEGEND

- Removing Old Pavement
- Removing Curb
- Driveway Removal *
- Sidewalk Removal
- Abandoning Drainage Structures
- Removing Drainage Structures
- Hydrant Removal
- Removing Trees
- Concrete Slab Removal *
- Removing Old Pav't. (Patching) with Pavement Replacement
- Removing Old Pav't. (Patching) with Conc. Pavement Patching
- * Paid for as Removing Old Pav't.



- NOTES:**
1. For Utility Legend and Symbols, See Standard Detail Dwg. C-902-A, 5/16/76.
 2. The removal of trees less than 8" in diameter is incidental to the contract.
 3. That part of the existing sprinkler system which is under the proposed pavement shall be removed. A new sprinkler system shall be constructed as shown on sheet # 7.

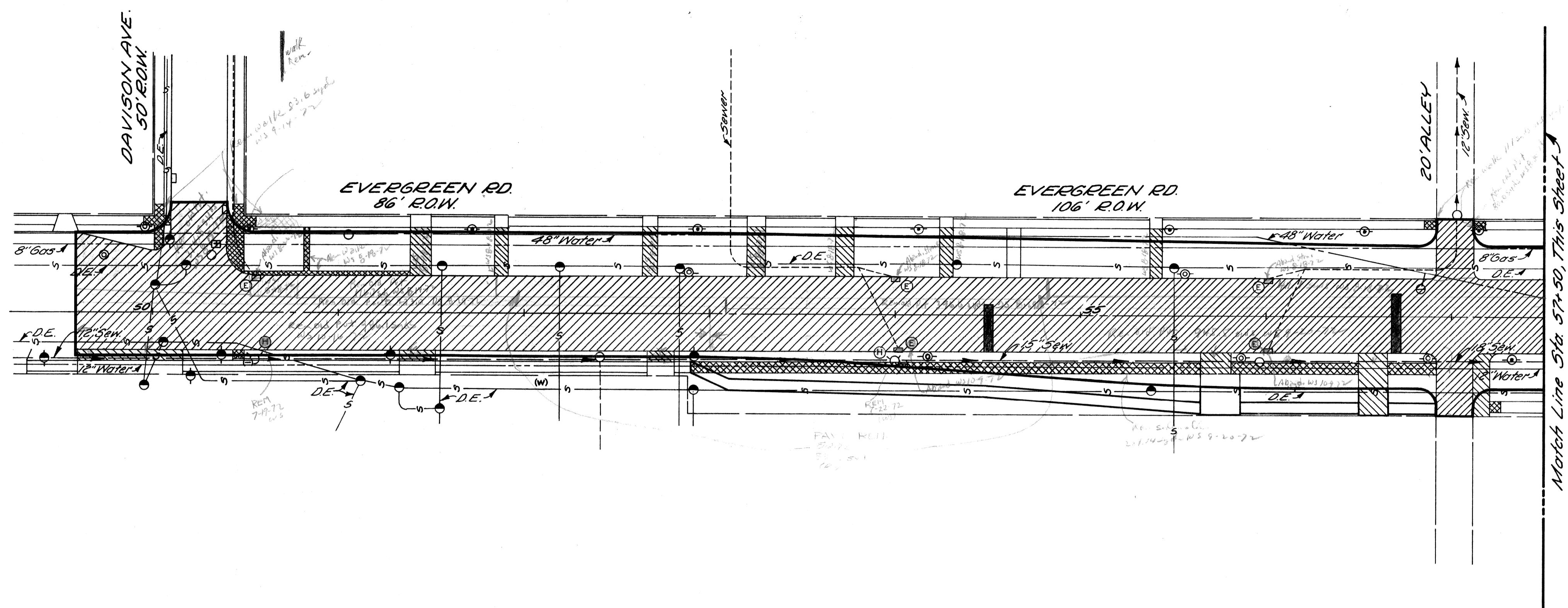
DESIGNED BY	M.A.P.
DRAWN BY	
TRACED BY	
CHECKED BY	R. Plater

APPROVED:
Allen E. Fryer
 ENGINEER OF EXPRESSWAYS

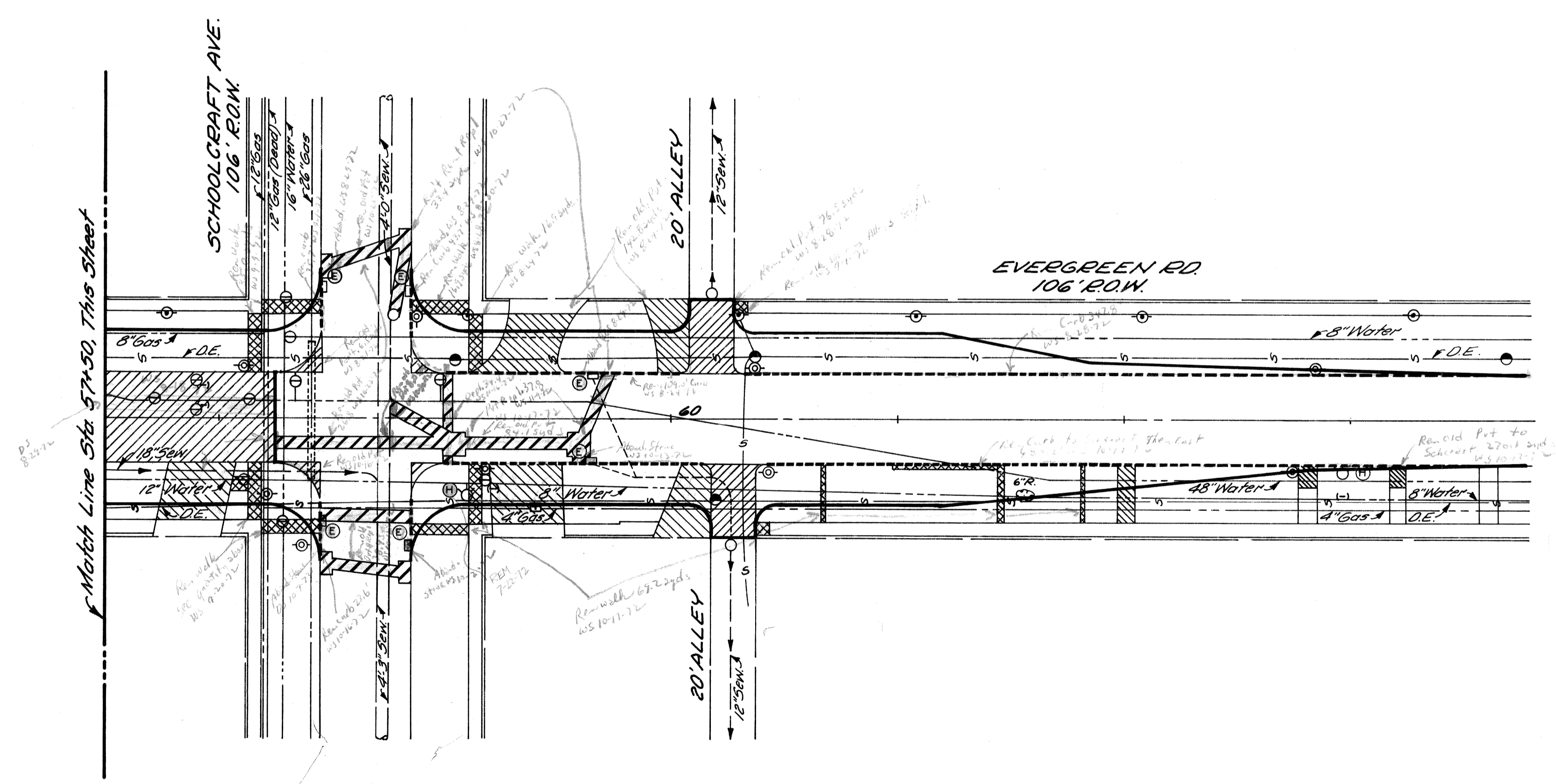
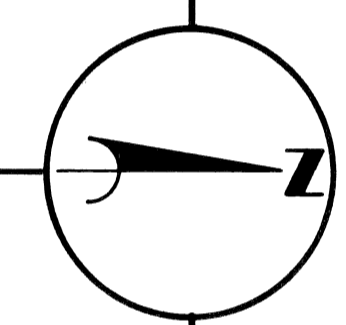
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

REMOVALS
 EVERGREEN ROAD
 FROM S. OF PLYMOUTH TO CAPITOL

SHEET	5	OF	43	SHEETS
PROJECT NO.	T4000 (7)			
JOB NO.	03187			
DATE	2-18-72			



PLAN
Scale: 1"=40'



- NOTES:**
1. For Removal Legend, See Sh # 5.
 2. For Utility Legend and Symbols, See Standard Detail Drawing C-902-A, Sh# 16.
 3. The removal of trees less than 8" in diameter is incidental to the contract.

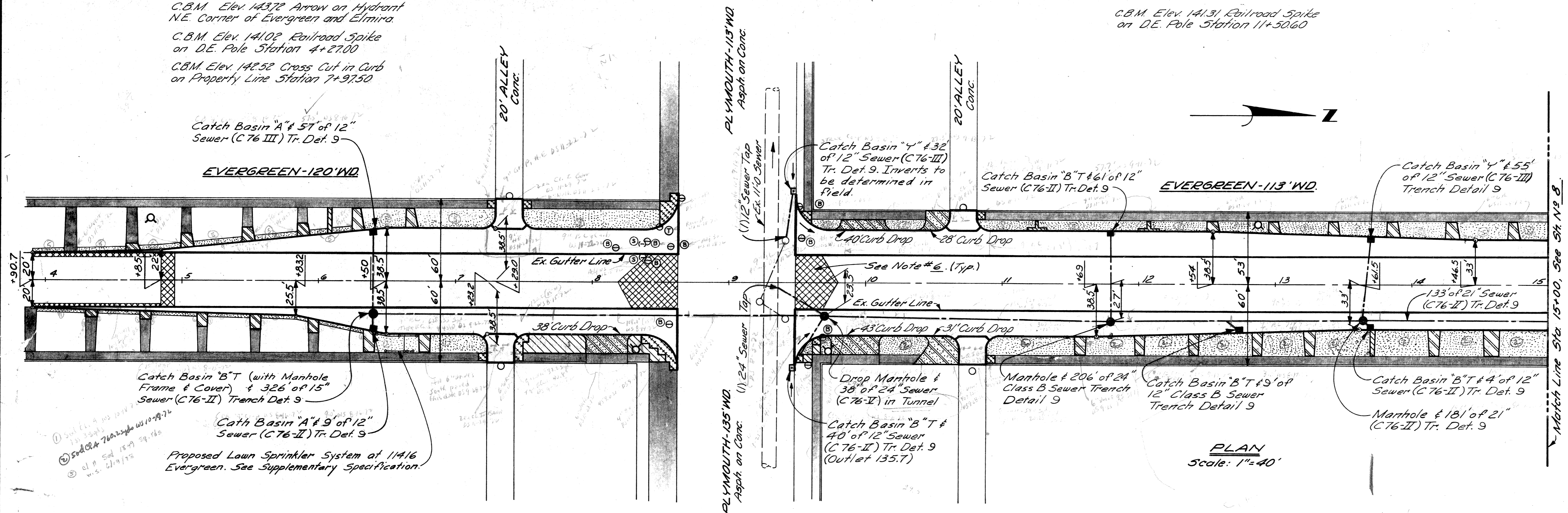
COORD. DESCRIPTION REVISIONS LOCATED BY COORDINATES ON SHEET		REFERENCE DRAWINGS DESIGNED BY DRAWN BY TRACED BY CHECKED BY	M. A. P. R. Plater	APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	REMOVALS EVERGREEN ROAD FROM DAVISON TO N. OF SCHOOLCRAFT	SHEET 6 OF 43 SHEETS PROJECT No. T4000 (7) JOB NO. 03187 DATE 2-18-72
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C.B.M. Elev. 143.72 Arrow on Hydrant
N.E. Corner of Evergreen and Elmira.

C.B.M. Elev. 141.02 Railroad Spike
on D.E. Pole Station 4+27.00

C.B.M. Elev. 142.52 Cross Cut in Curb
on Property Line Station 7+97.50

C.B.M. Elev. 141.31 Railroad Spike
on D.E. Pole Station 11+50.60

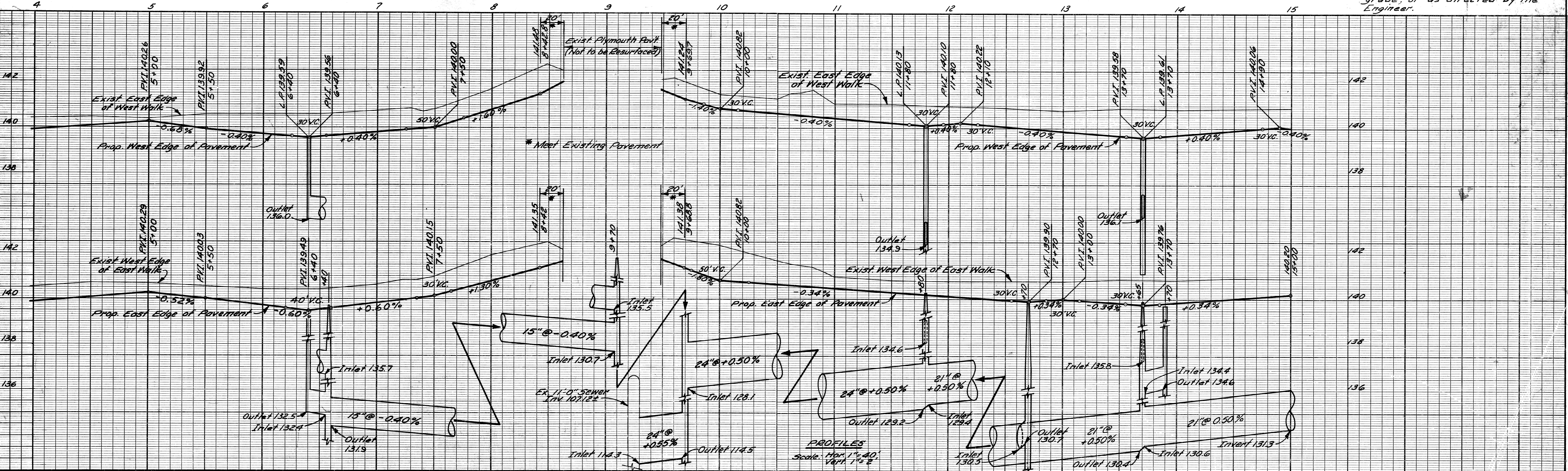


LEGEND

- 4" Conc. Sidewalk
- 6" Driveway
- 8" Driveway
- Sodding
- Exist. Sidewalk to Remain
- Strip of Resurface to provide for a smooth connection
- Adjusting Manhole Covers (Water)
- Reconstructing Manhole
- Adjusting Water Shut off's
- Fire Hydrant (See Sh. # 12)
- 6" Concrete Sidewalk

NOTES:

1. For Utility Legend and Symbols, See Standard Def. Dwg. C-902-A, Sh. # 16.
2. For typical 6" driveway details, See Sh. # 10.
3. All street return radii 25', this sheet.
4. Where proposed pavement narrows to less than 8', See Standard Detail, Sh. # 16.
5. For Detail of Alley Returns, See Sh. # 16.
6. Where Removing Bituminous is required, the existing bituminous surface shall be removed to a depth of approx. 2 inches below finished grade, or as directed by the Engineer.



BY	M.A.P.	CHECKED BY	R.B.P.	APPROVED:	<i>Allen J. Progen</i>
PLAN				ENGINEER OF EXPRESSWAYS	
GRADE	J.D.		R.B.P.		
ESTIMATE					
DESCRIPTION	DRN	CK'D	AP	VD	DATE
REVISIONS	FINAL	DRK	REVIEW		

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

PLAN AND PROFILE
EVERGREEN ROAD N. AND S. OF PLYMOUTH
STA. 3 + 90.7 TO STA. 15 + 00

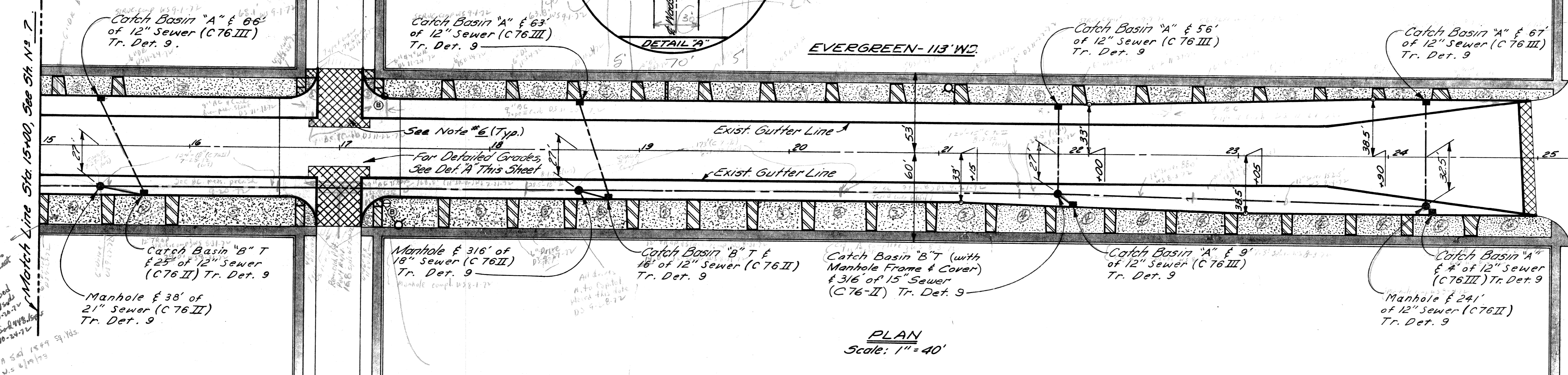
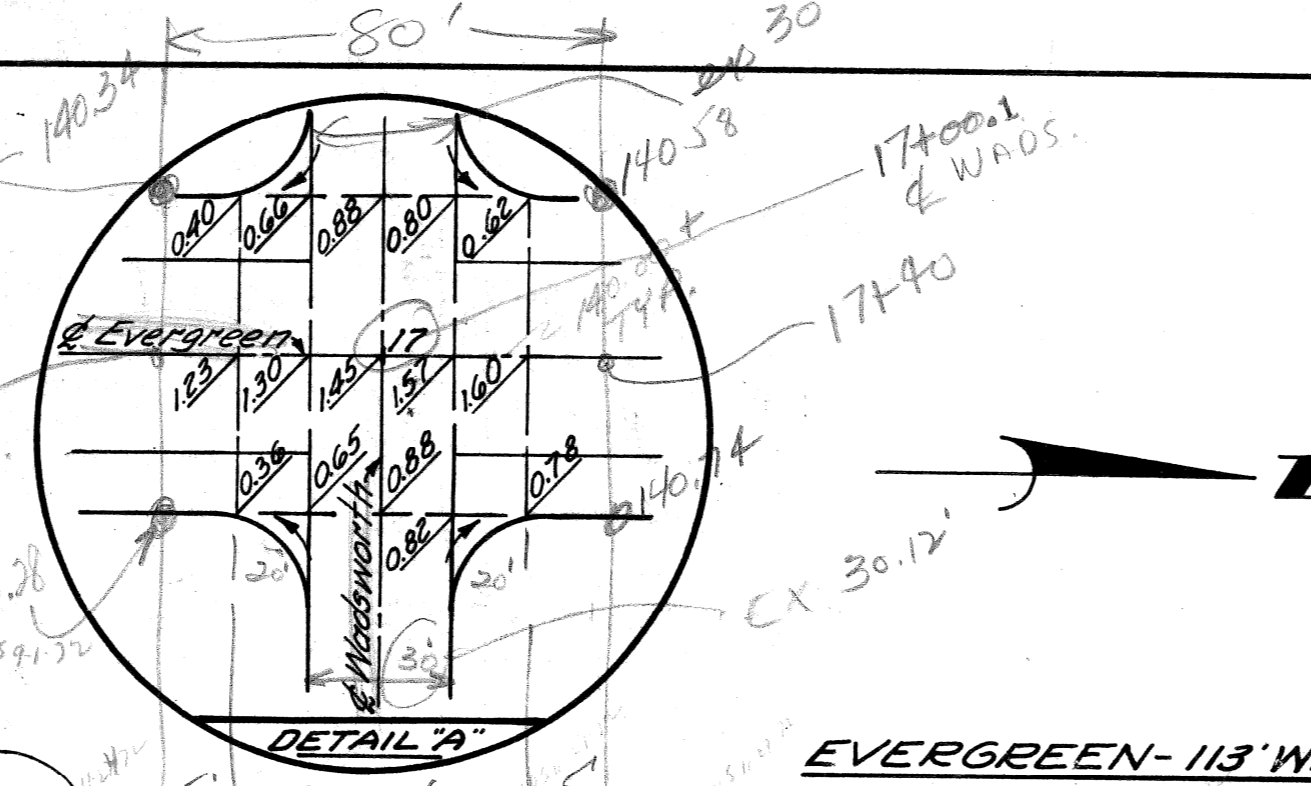
INDEX NO. SHEET 7 OF 43 SHEETS
PROJECT NO. T4000 (7)
JOB NO. 03187
DATE 2-18-72

C.B.M. Elev. 144.90 Arrow on Hydrant
N.E. Corner of Evergreen & Wadsworth

C.B.M. Elev. 141.43 Railroad Spike
on P.L.C. Pole Station 19+49.00
C.B.M. Elev. 144.61 Arrow on Hydrant
S.E. Corner of Evergreen & Capital
C.B.M. Elev. 142.58 State Hwy. B.M.
Base of D.E. Pole 3' Side of Capital
50' East of Evergreen Property Line.

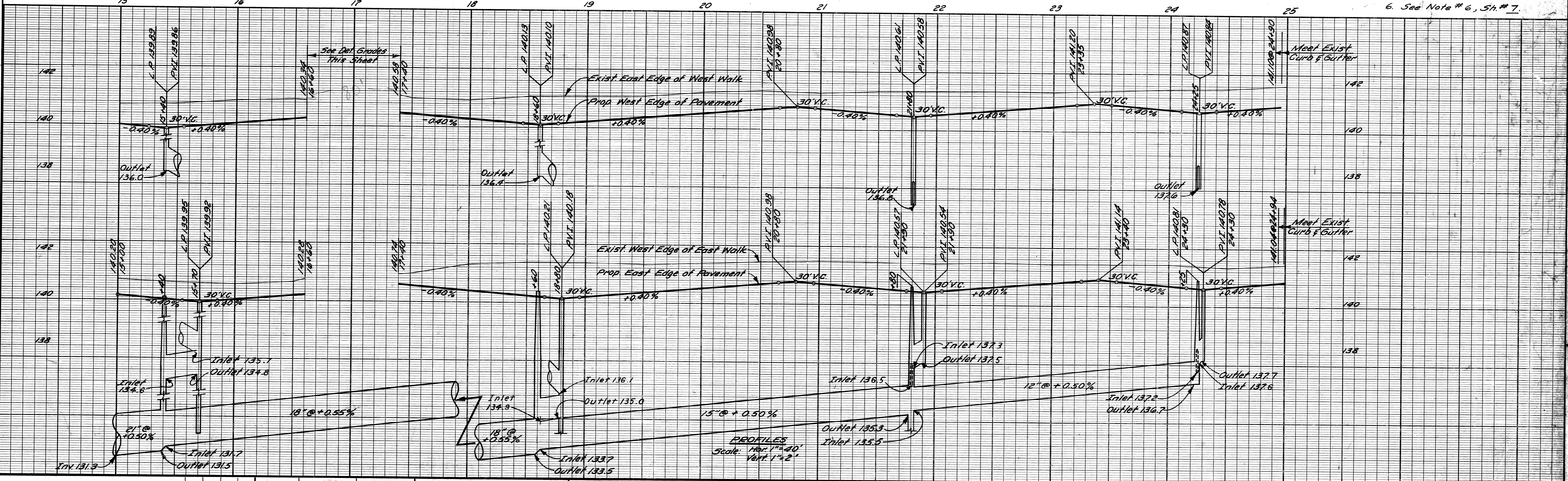
LEGEND

- 4" Concrete Sidewalk
- 6" Driveway
- 8" Driveway
- Sodding
- Exist. Sidewalk to Remain
- Strip of Resurface to provide for a smooth connection
- Adjusting Manhole Covers (Water)
- Fire Hydrant (See Sh.# 12)
- 6" Concrete Sidewalk



PLAN
Scale: 1" = 40'

- NOTES:**
1. For Utility Legend and Symbols See Std. Det. C-902-A, Sh.# 16
 2. For typical 6" driveway details, See Sh.# 10
 3. All st. return radii 20', this sheet
 4. Add 140.00 to the elevations shown on Detail 'A'
 5. Where proposed pavement narrows to less than 8', See Standard Detail, Sh.# 16
 6. See Note # 6, Sh.# 7.



PROFILES
Scale: Hor. 1" = 40'
Vert. 1" = 2'

BY	M.A.P.	CHECKED BY	R.B.P.	APPROVED:	<i>William E. ...</i>
PLAN				ENGINEER OF EXPRESSWAYS	
GRADE	M.S.		R.B.P.		
ESTIMATE					
DESCRIPTION	DR'N	CK'D	AP'D	DATE	FINAL
REVISIONS	CHECK	REVIEW			

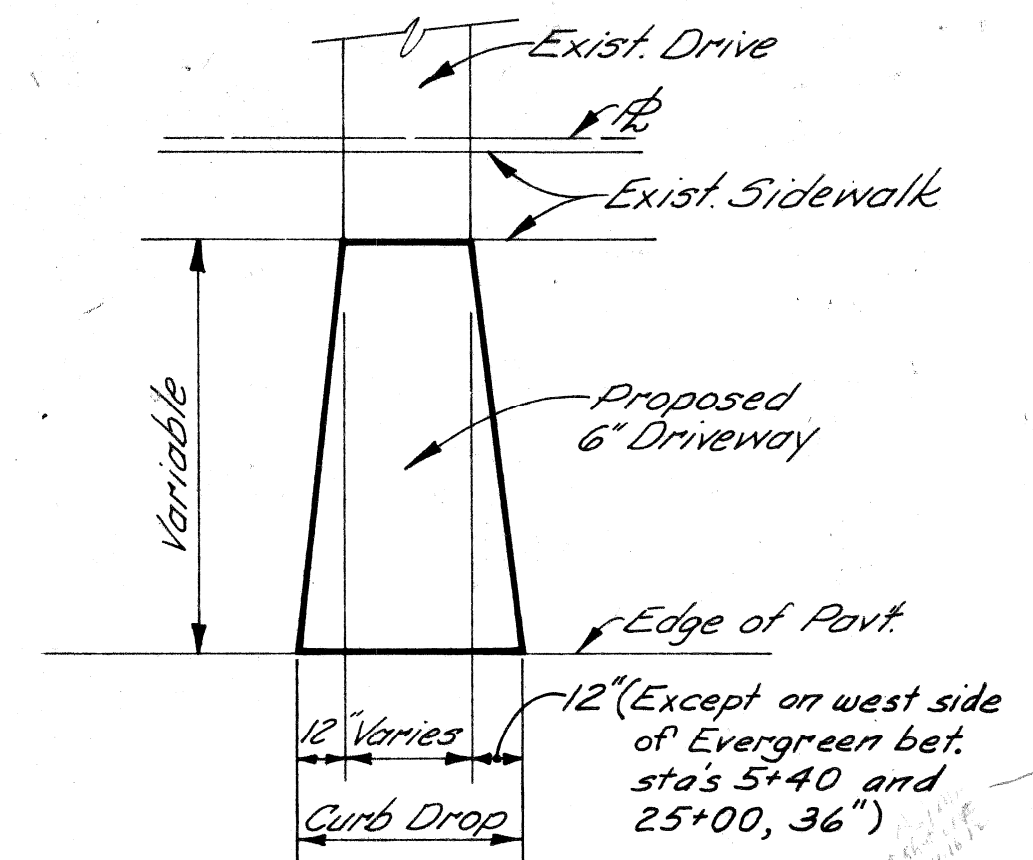
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

PLAN AND PROFILE
EVERGREEN ROAD, S. OF WADSWORTH TO CAPITAL
STA. 15+00 TO STA. 24+97 ±

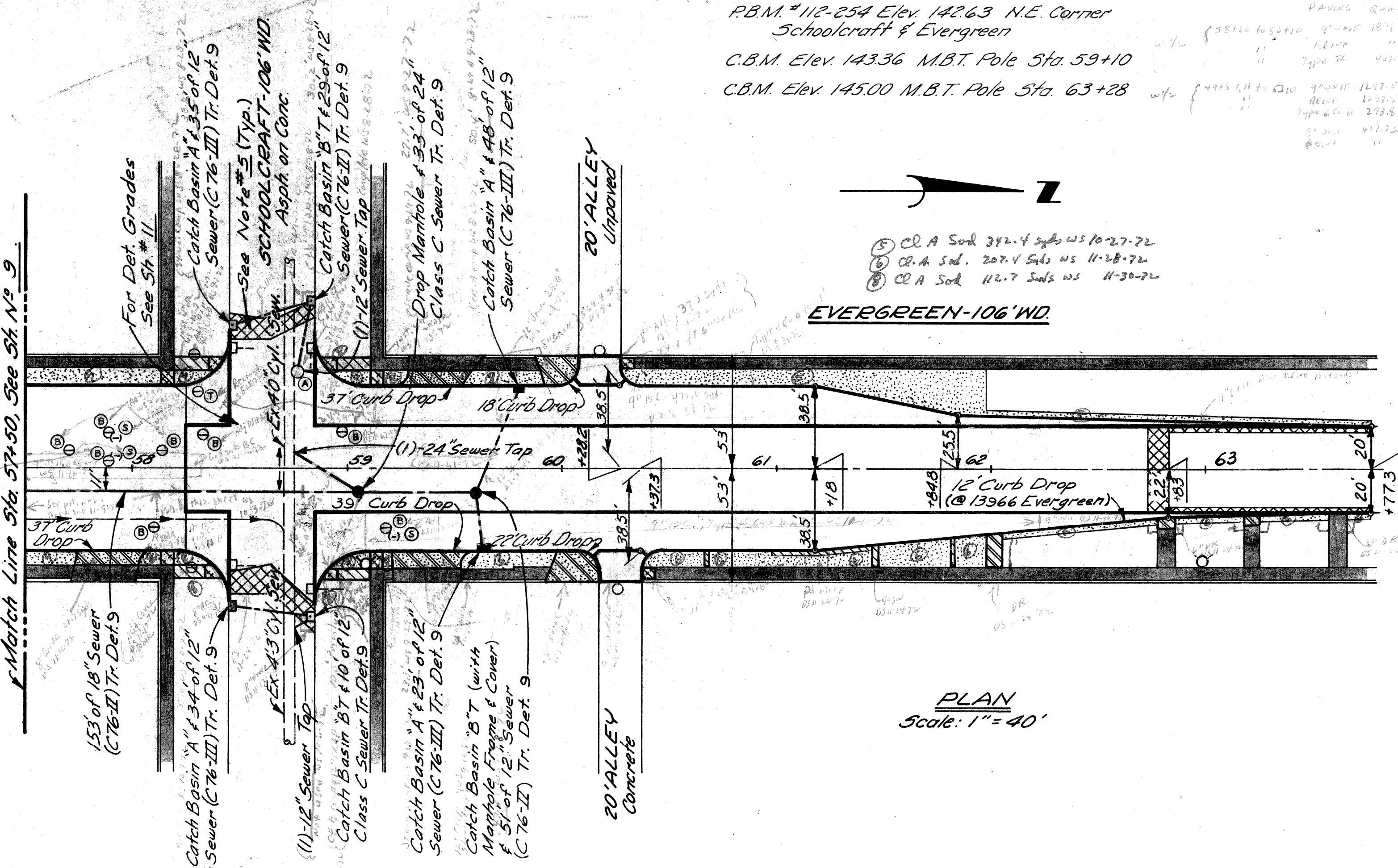
INDEX NO.	SHEET 8 OF 43 SHEETS
PROJECT NO.	T4000(7)
JOB NO.	03187
DATE	2-18-72

P.B.M. #112-254 Elev. 142.63 N.E. Corner Schoolcraft & Evergreen
 C.B.M. Elev. 143.36 M.B.T. Pole Sta. 59+10
 C.B.M. Elev. 145.00 M.B.T. Pole Sta. 63+28

Note: Prop. Driveway shall meet Exist. Drive at sidewalk line or as shown on plans.



DETAIL OF TYPICAL 6" DRIVEWAY
 No Scale

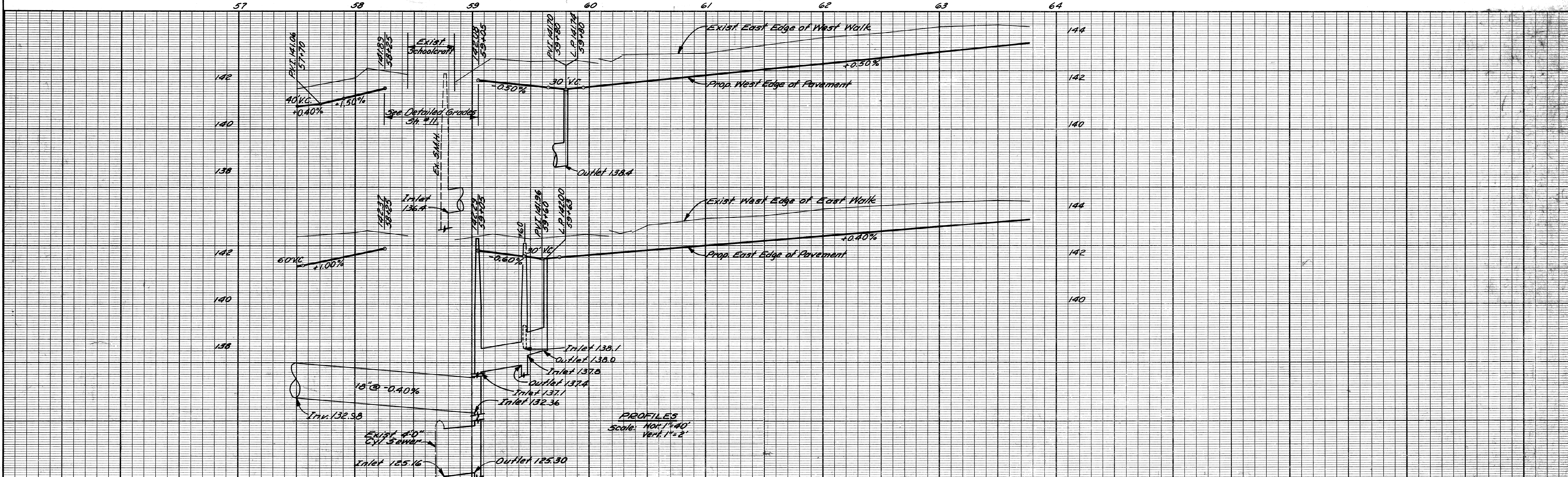


LEGEND

- 4" Conc. Sidewalk
- 6" Driveway
- 8" Driveway
- Sodding
- Exist. Sidewalk to Remain
- Strip & Resurface to provide for a smooth connection
- Adjusting Manhole Covers (Water)
- Reconstructing Manholes
- Adjusting Water Shut-offs
- Adjusting Drainage Structures
- Fire Hydrant (See Sh.# 13)
- 6" Concrete Sidewalk

NOTES:

1. For Utility Legend and Symbols, See Standard Det. Dwg. C-902-A, Sh.# 16.
2. All street return radii 25', this sheet.
3. Where proposed pavement narrows to less than 6', See Standard Detail, Sh.# 16.
4. For Detail of Alley Returns, See Sh.# 16.
5. Where Removing Bituminous is required, the existing bituminous surface shall be removed to a depth of approx. 2 inches below finished grade, or as directed by the Engineer.



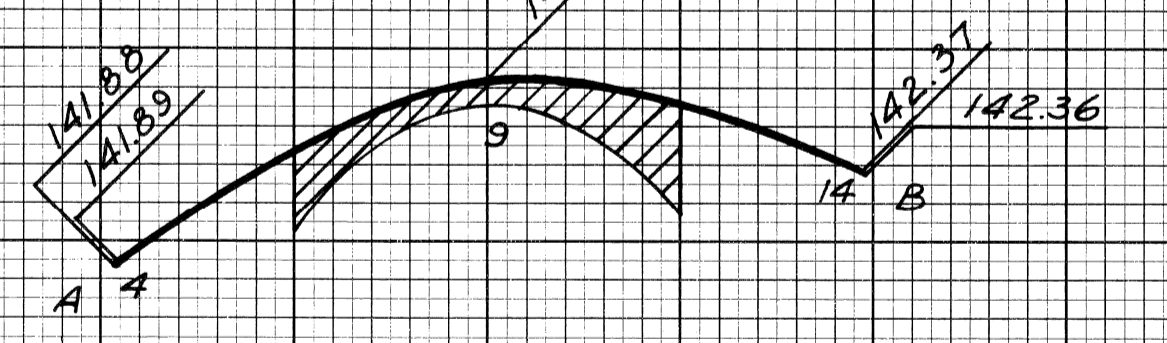
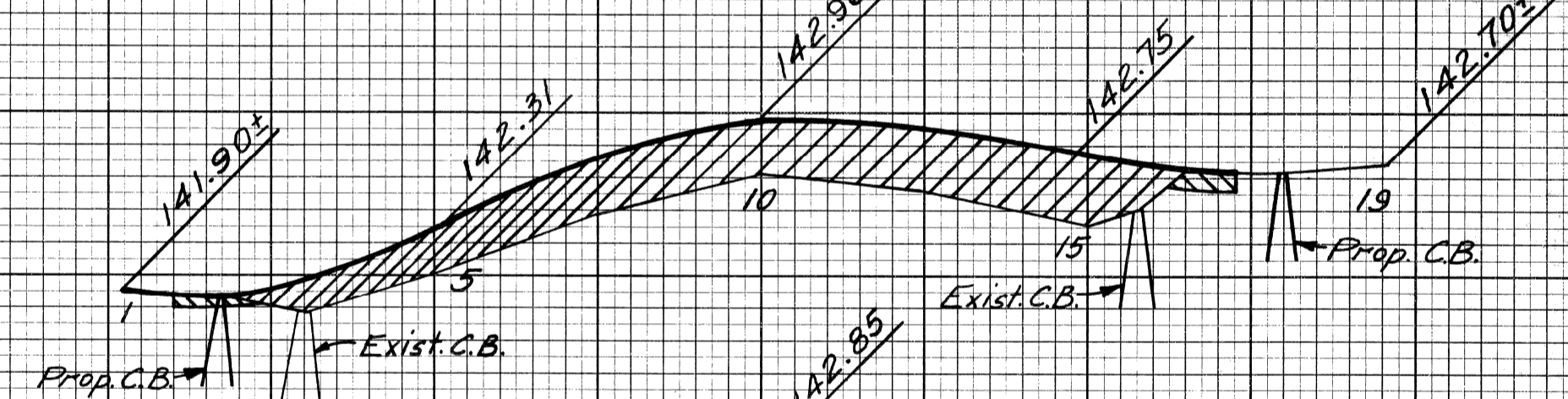
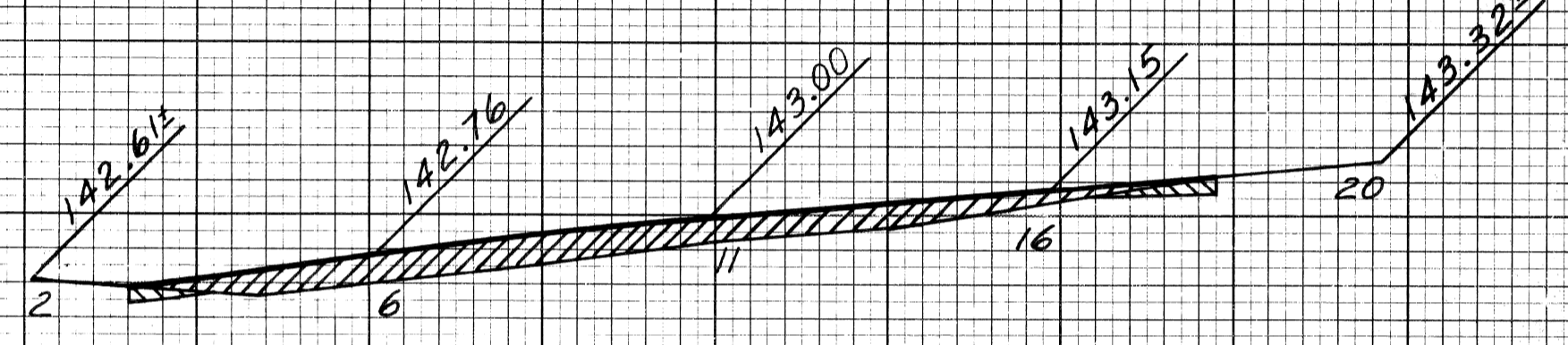
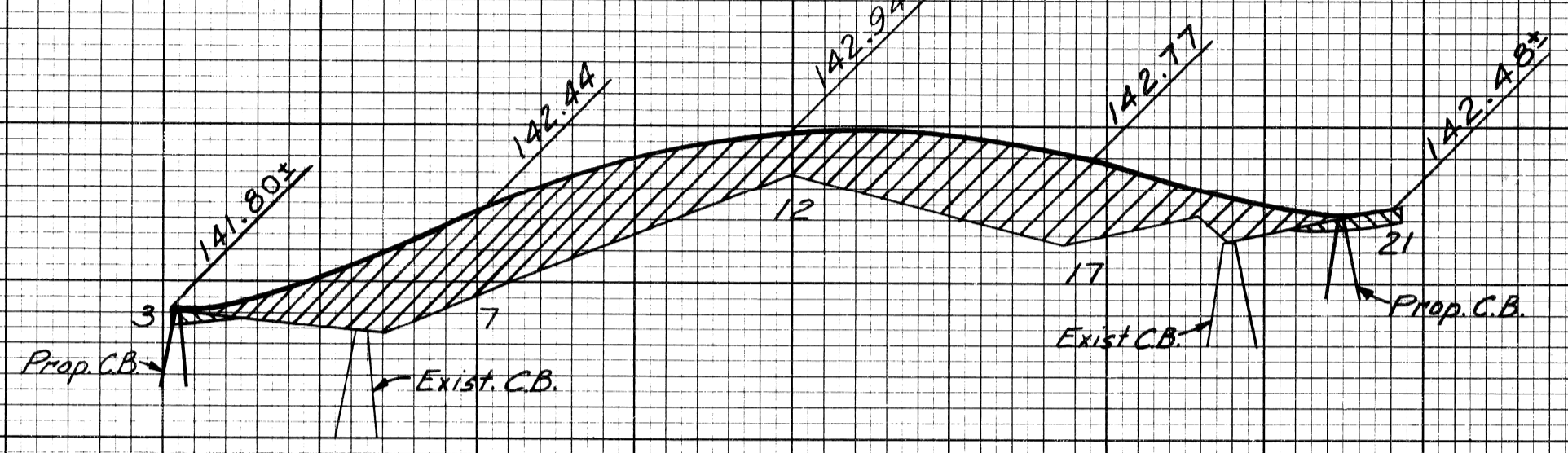
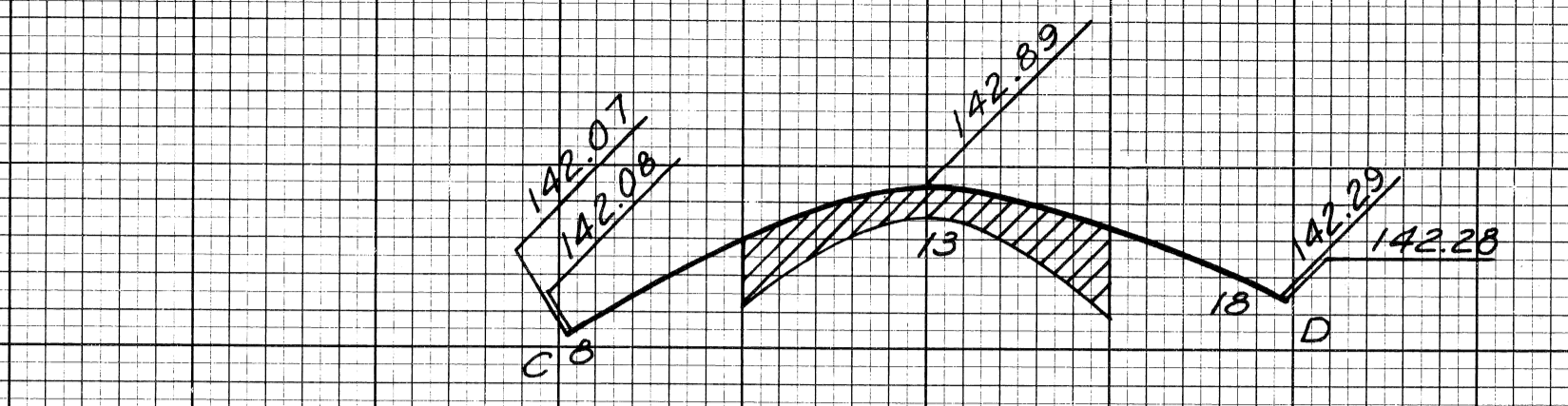
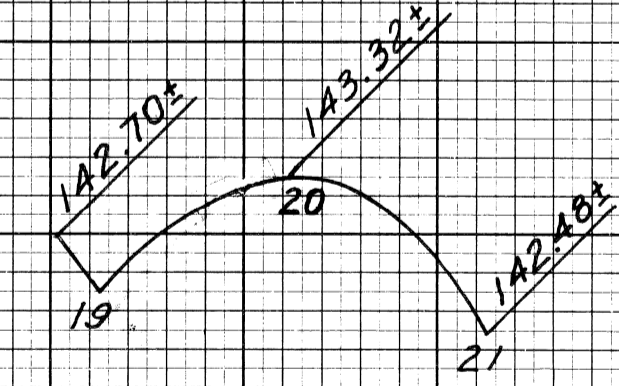
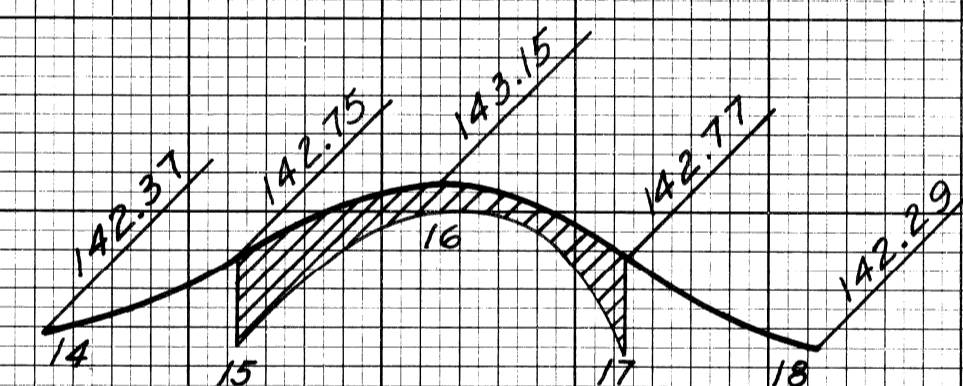
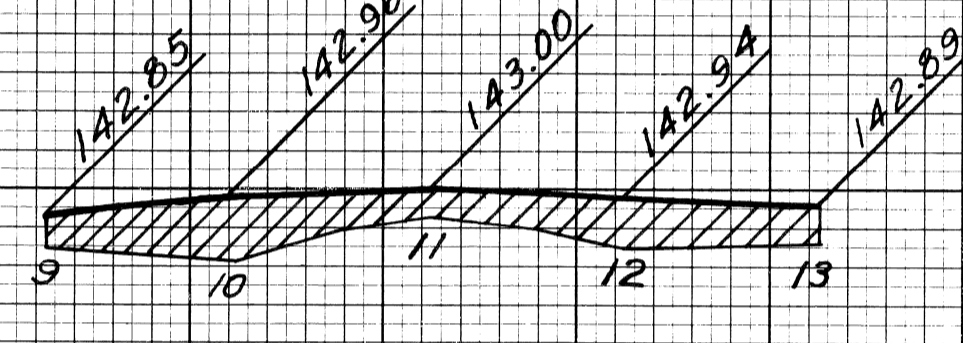
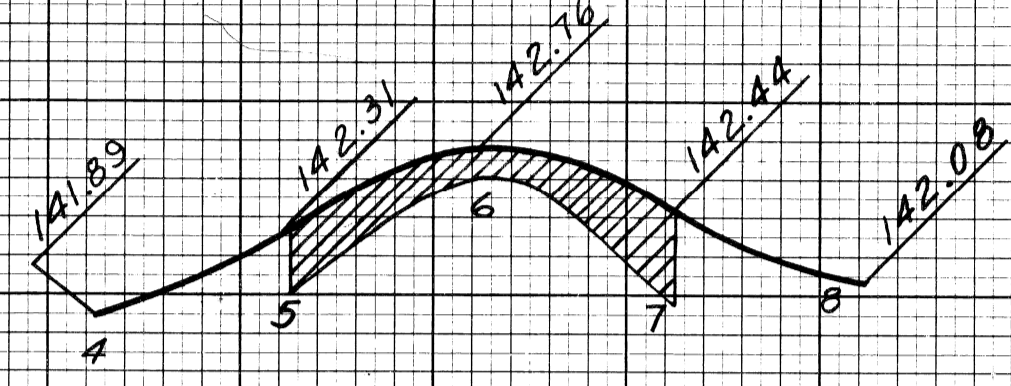
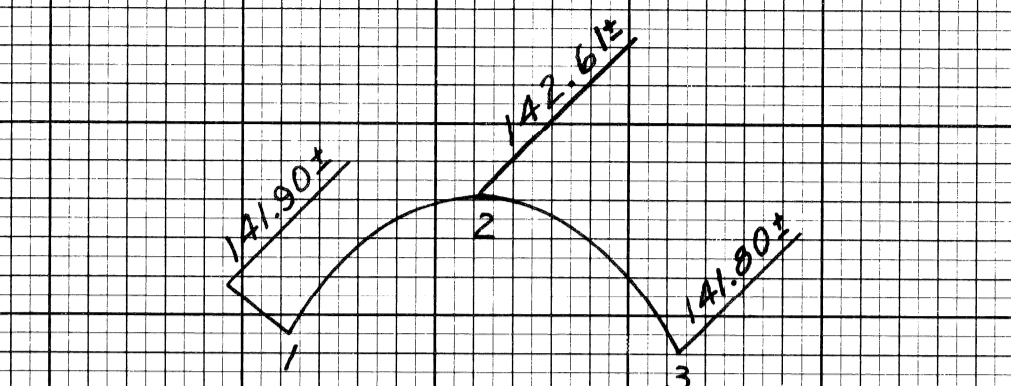
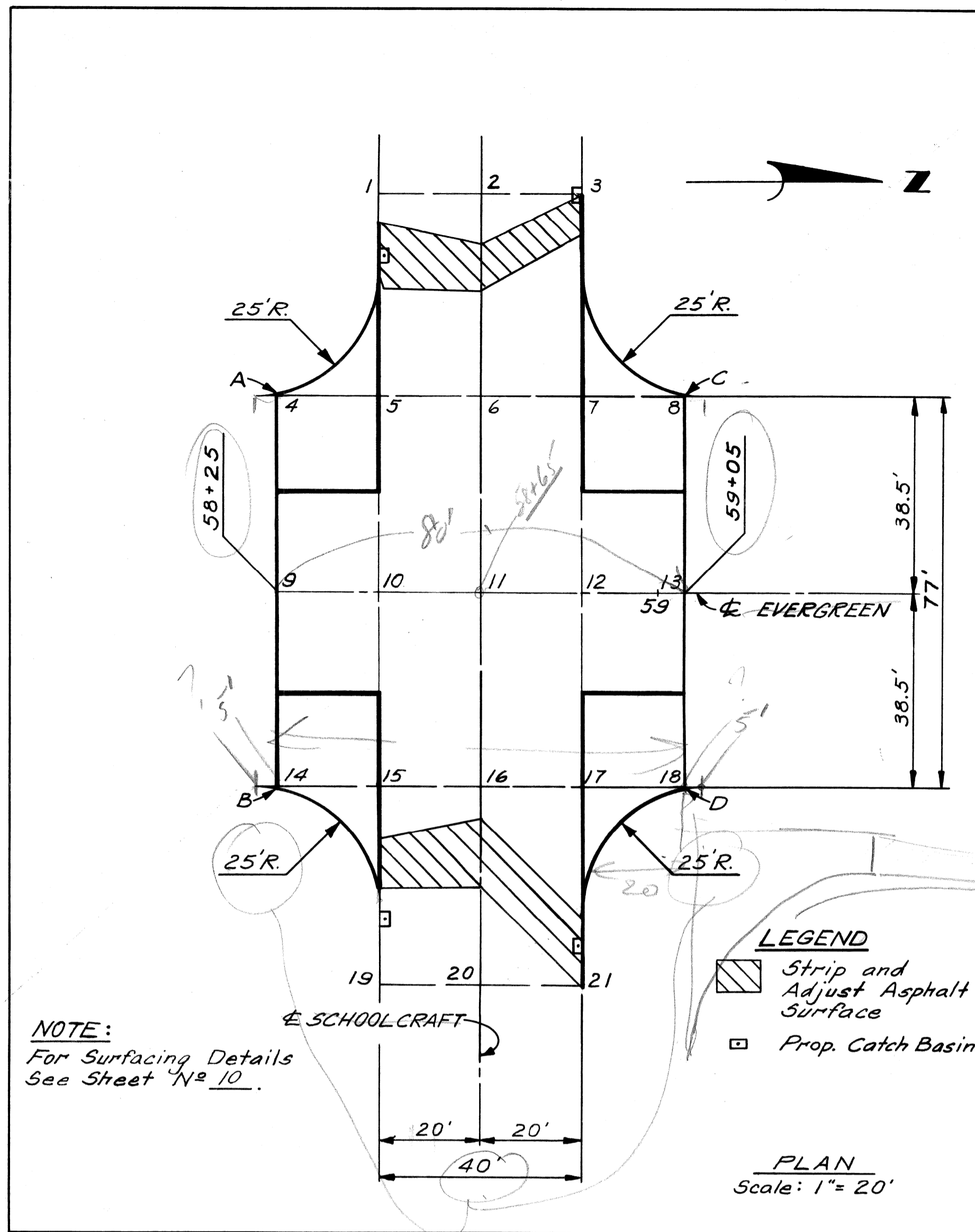
BY	CHECKED BY	APPROVED:
PLAN M.A.P.	RBP	<i>Allen E. Brown</i>
GRADE M.S.	RBP	ENGINEER OF EXPRESSWAYS
ESTIMATE		
DESCRIPTION	DR'N	CK'D
REVISIONS	AP'VD	DATE

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

PLAN AND PROFILE
 EVERGREEN ROAD N. AND S. OF SCHOOLCRAFT
 STA. 57+50 TO STA. 63+77.3

INDEX NO.	SHEET 10 OF 43 SHEETS
PROJECT NO.	T4000 (7)
JOB NO.	03187
DATE	2-18-72

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			11	43
ROUTE	STATE PROJECT	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS
				11	43



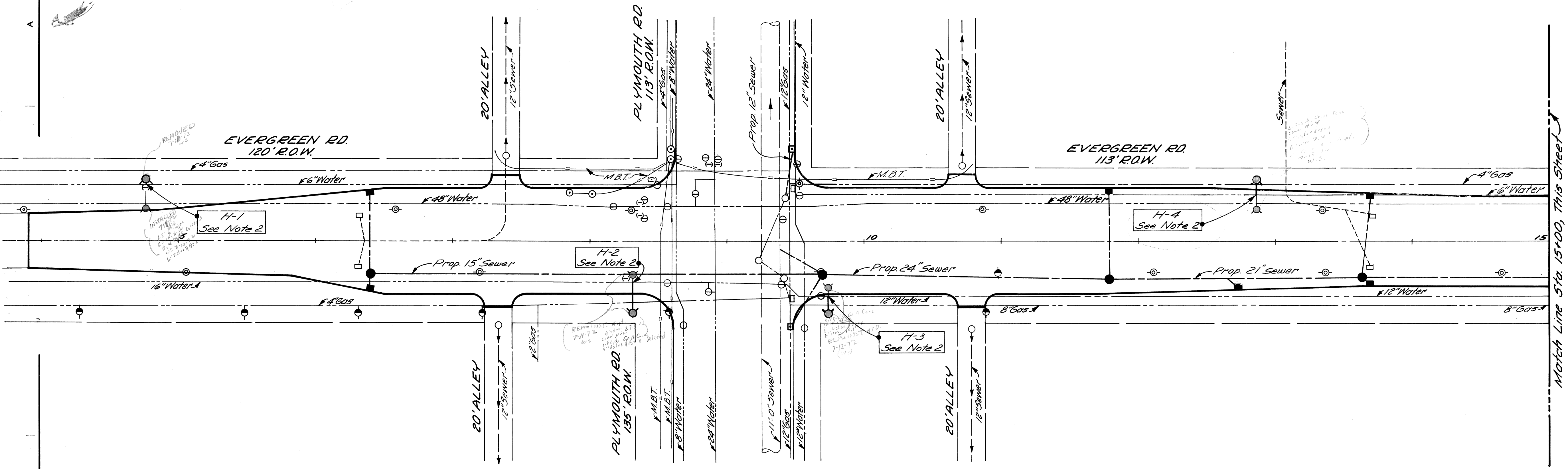
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Scale: Hor. 1" = 20'
Vert. 1" = 1'

PROFILE LEGEND

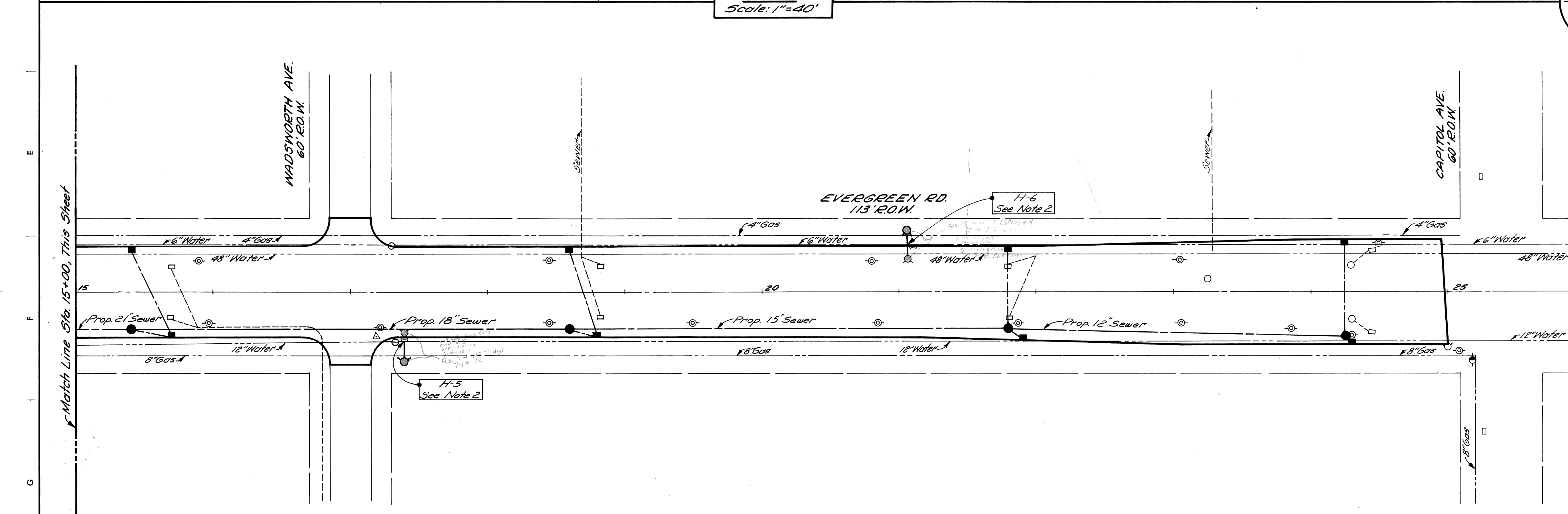
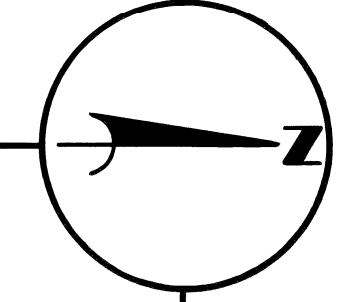
- Resurface (No Stripping)
- Stripping and Resurfacing
- Top of Proposed Pavement
- Top of Existing Pavement

DETAILED GRADES AT
SCHOOLCRAFT RD. AND EVERGREEN RD.

DATE	
BY	
PLOTTED	
COMPUTED	
CHECKED	

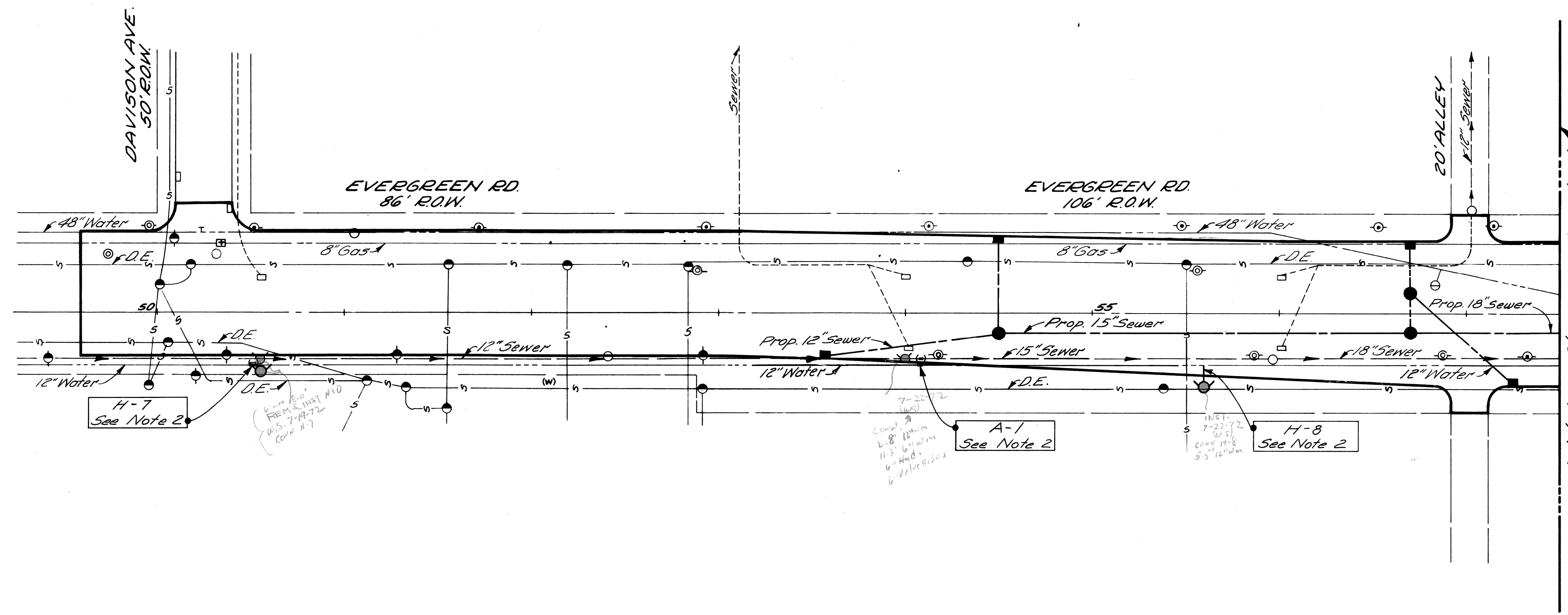


PLAN
Scale: 1"=40'

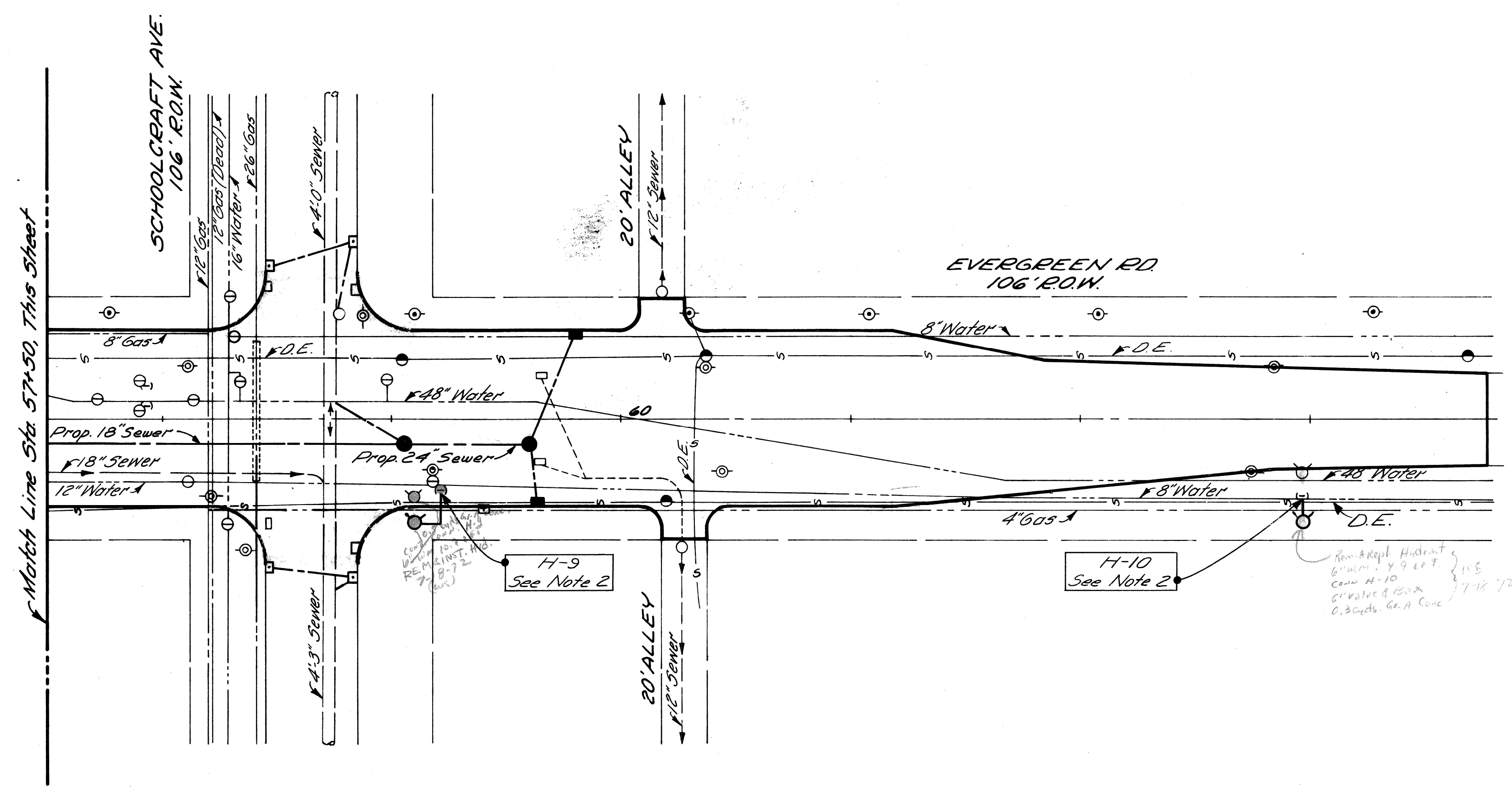
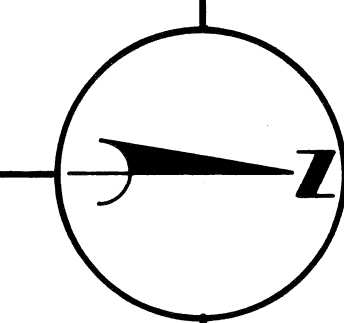


- NOTES:**
1. For Utility Legend and Symbols, See Standard Detail Drawing C-302-A, Sh.# 16.
 2. For Contractor's Connection "H", See Sh.# 14.

REVISIONS LOCATED BY COORDINATES ON SHEET COORD. DESCRIPTION 1 2		REFERENCE DRAWINGS DESIGNED BY DRAWN BY TRACED BY CHECKED BY	M. A. P. RP/IK	APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	UTILITIES EVERGREEN ROAD FROM S. OF PLYMOUTH TO CAPITOL	SHEET 12 OF 43 SHEETS PROJECT NO. T4000 (7) JOB NO. 03187 DATE 2-18-72
---------------------------------------------------------------------------	--	--------------------------------------------------------------------------	-------------------	------------------------------------------	------------------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------------------------



PLAN
Scale: 1" = 40'



- NOTES:**
1. For Utility Legend and Symbols, See Standard Detail Drawing C-302-A, Sh.# 16.
 2. For Contractor's Connections, "A" & "H," See Sh.# 14.

DESIGNED BY	M. A. P.
DRAWN BY	
TRACED BY	
CHECKED BY	RP/IK

APPROVED:
Allen E. Propp
ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

UTILITIES
EVERGREEN ROAD
FROM DAVISON TO N. OF SCHOOLCRAFT

SHEET 13 OF 43 SHEETS
PROJECT NO. T4000 (7)
JOB NO. 03187
DATE 2-18-72

GENERAL NOTES

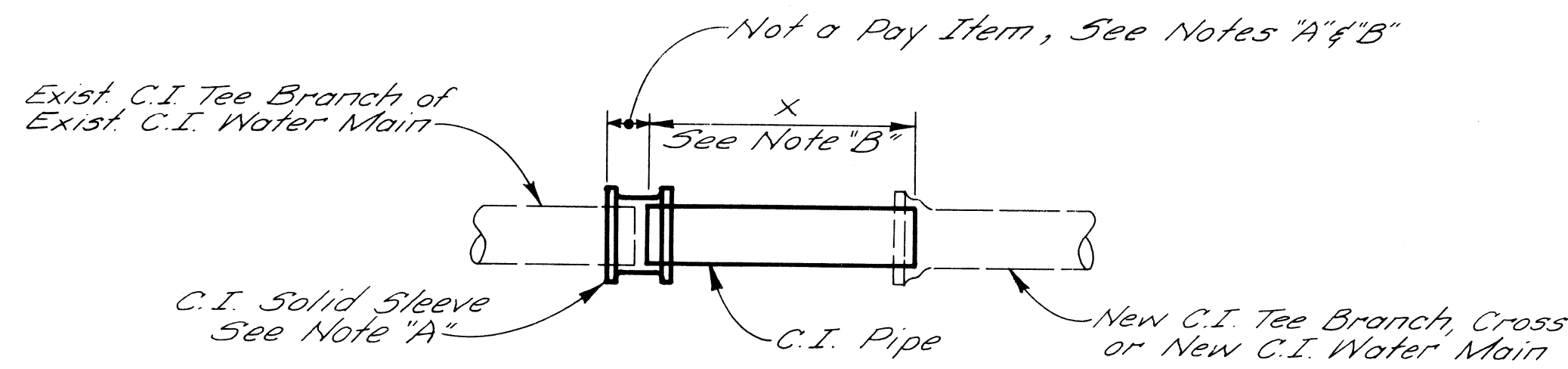
Existing Water Mains, as shown, indicate approximate location only as shown by D.M.W.D. records and no guarantee is made as to completeness or accuracy.

The locations and elevations of existing utilities are shown in accordance with available data. The Contractor shall expose these utilities, where required, to determine actual locations.

Other utilities may be 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.

A minimum clearance of one foot vertically and three and one half feet horizontally shall be maintained between the Water Main and other utilities, unless otherwise shown on the plans or approved by the Engineer. If a conflict is indicated between the Water Main and any other utility, that utility should be consulted.

The location of Fire Hydrants, as shown, are approximate. D.F.D. will give exact location of Proposed Fire Hydrants prior to installation.



PLAN
DETAIL A-1
NO SCALE

SCHEDULE FOR DETAIL "A"							
DETAIL NO	FROM SHEET NO	NEW WATER MAIN SIZE	NEW TEE SIZE	C.I. PIPE SIZE	X	TRENCH DETAIL	
A-1	13	-	-	12"	6'	12	

SCHEDULE OF HYDRANT INSTALLATION ON EXISTING MAINS DETAILS H-1 THROUGH H-10							
DETAIL NO	FROM SHEET NO	EXIST. WATER MAIN SIZE	SIZE OF TAPPING SLEEVE	SIZE OF GATE VALVE	LENGTH OF 6" C.I. WATER MAIN	FIRE HYDRANT	TRENCH DETAIL
H-1	12	6"	-	6"	4'	6"	12
H-2	12	16"	-	6"	20'	6"	12
H-3	12	12"	-	6"	11'	6"	12
H-4	12	6"	-	6"	12'	6"	12
H-5	12	12"	-	6"	14'	6"	12
H-6	12	6"	-	6"	10'	6"	12
H-7	13	12"	-	Use Exist.	6'	6"	12
H-8	13	12"	-	6"	12'	6"	12
H-9	13	-	-	Use Exist.	24'	6"	12
H-10	13	8"	-	6"	10'	6"	12

NOTES FOR CONTRACTOR'S CONNECTIONS

Contractor shall cut and cap or plug existing Water Mains to remain in service where required in accordance with supplemental specifications.

4" C.I. Blow-off Assemblies, C.I. Plugs and Caps to be installed and/or removed by Contractor have not been shown.

Contractor shall install and later remove all temporary C.I. Plugs, Tees and Blow-off Assemblies.

Contractor shall furnish and install C.I. Pipe and Fittings necessary to complete the connections shown.

Contractor shall construct all Concrete Thrust Blocks and Gate Wells.

Contractor shall install all Temporary bracing for Water Main work.

It is not normally anticipated that bends requiring Thrust Blocks will be required for Connections unless otherwise shown.

NOTE "A"

Plugs and caps, temporary blow-offs, air valves, corporation stops, pipe jacks, solid sleeves, jointing material, bracing and blocking are incidental to water main construction and will not be paid for separately.

NOTE "B"

Limits shown for dimension "X" shall be used to measure laid length of pipe.

CONSTRUCTION NOTES

Encasements and Thrust Blocks shall be poured against undisturbed earth. Bottom 3" of Encasement may be poured separate from Encasement and used as a sub-footing.

All Encasements and Thrust Blocks shall terminate at the face of pipe bells.

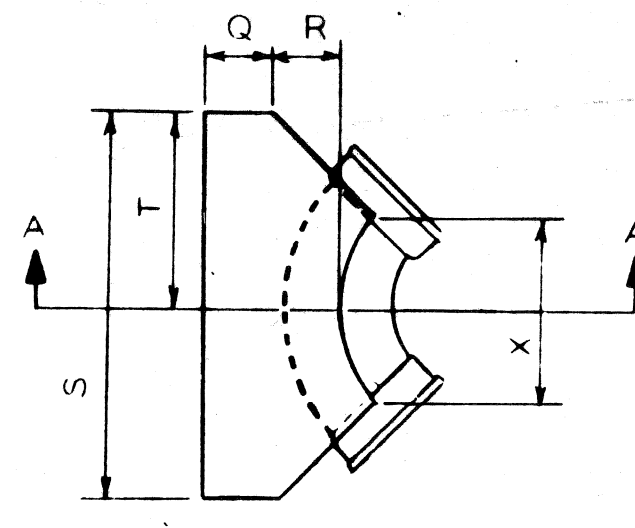
Removal of abandoned Water Mains as required for clearance to construct the Proposed Water Mains is incidental to Water Main Construction.

Sheeting and bracing, where required, shall be installed by the Contractor as incidental to Water Main const.

Scheduling of the connections shall be governed by the "Sequence of Operations" and "Flushing and Chlorination" specifications which are included in the Water Main portion of the Proposal.

437
13.3
13.9
13.2
9.5
8
49.9
43.9
43.4

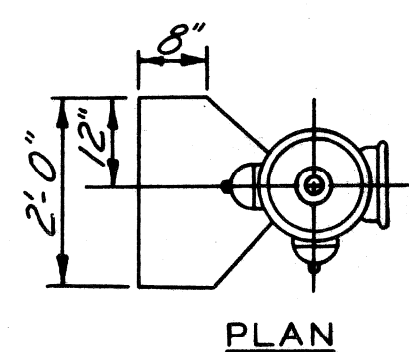
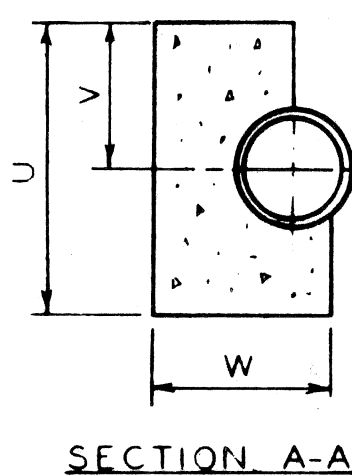
REVISIONS LOCATED BY COORDINATES ON SHEET COORD DESCRIPTION DWN CK'D AP'D DATE		DESIGNED BY DRAWN BY M.A.P. TRACED BY CHECKED BY RP/IK	APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	EVERGREEN WIDENING ALTERATIONS TO WATER MAINS CONTRACTOR'S CONNECTIONS	SHEET 14 OF 43 SHEETS PROJECT NO. T4000(7) JOB NO. 03187 DATE 2-18-72
------------------------------------------------------------------------------------------------------------	--	-------------------------------------------------------------------------------	------------------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------



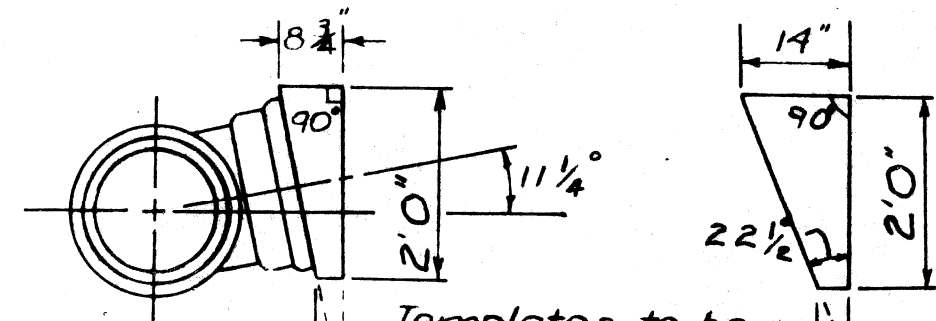
SCHEDULE OF THRUST BLOCK DIMENSIONS									
BEND SIZE	CODE								
	Q	R	S	T	U	V	W	X	
6" x 8" 90°	0' 9"	1' 0"	3' 4"	1' 8"	2' 6"	1' 3"	1' 11"	1' 2"	
12" 90°	0' 9"	1' 4"	5' 6"	2' 9"	3' 0"	1' 6"	2' 4"	1' 8"	
16" 90°	1' 0"	1' 8"	6' 0"	3' 0"	3' 0"	2' 6"	3' 0"	2' 8"	
6" x 8" 45°	0' 9"	1' 0"	2' 4"	1' 2"	2' 0"	1' 0"	1' 11"	1' 4"	
12" 45°	0' 9"	1' 4"	3' 6"	1' 9"	2' 6"	1' 3"	2' 4"	1' 4"	
16" 45°	1' 0"	1' 8"	5' 4"	2' 8"	3' 0"	1' 6"	3' 0"	2' 6"	
6" x 12" 22 1/2°	0' 9"	1' 0"	2' 6"	1' 3"	2' 0"	1' 0"	2' 0"	1' 4"	
16" 22 1/2°	1' 0"	1' 8"	3' 4"	1' 8"	2' 6"	1' 3"	3' 0"	1' 2"	

DETAIL OF STANDARD THRUST BLOCKS FOR BENDS

No Scale

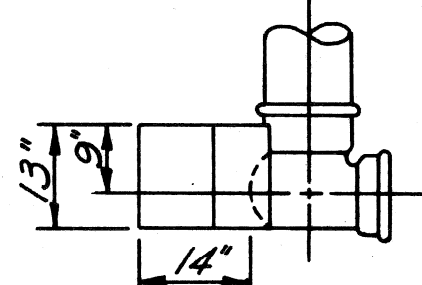


PLAN



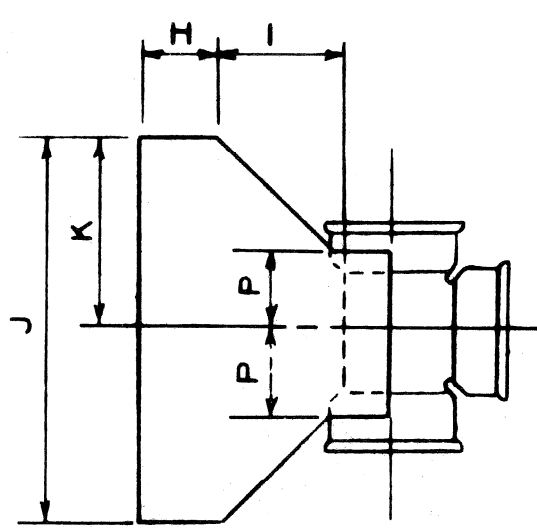
TEMPLATE FOR SETTING TEES AT 11 1/4° & 22 1/2° ANGLES

No Scale



ELEVATION THRUST BLOCK FOR 6" HYDRANT

No Scale



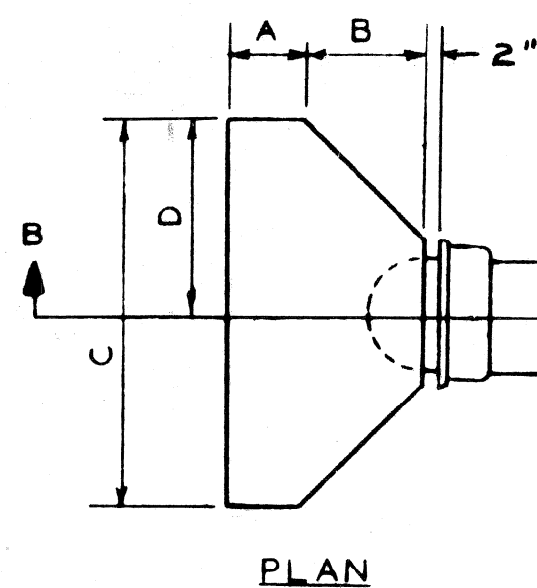
PLAN

SCHEDULE OF THRUST BLOCK DIMENSIONS									
TEE SIZE	CODE								
	H	I	J	K	L	M	N	P	
8" x 8"							8' 2 3/4"	8' 0 6/8"	
12" x 8"	0' 9"	1' 0"	3' 0"	1' 6"	2' 0"	1' 0"	12' 2 5/8"	12' 0 6/8"	
16" x 8"							16' 2 9/8"	16' 0 6/8"	
12" x 12"							12' 2 9/8"	8' 0 8/8"	
16" x 12"	0' 9"	1' 4"	4' 0"	2' 0"	3' 0"	1' 6"	16' 3 1/8"	16' 0 8/8"	
16" x 16"	1' 0"	1' 8"	5' 0"	2' 6"	4' 0"	2' 0"	16' 3 8/8"	16' 0 11/8"	

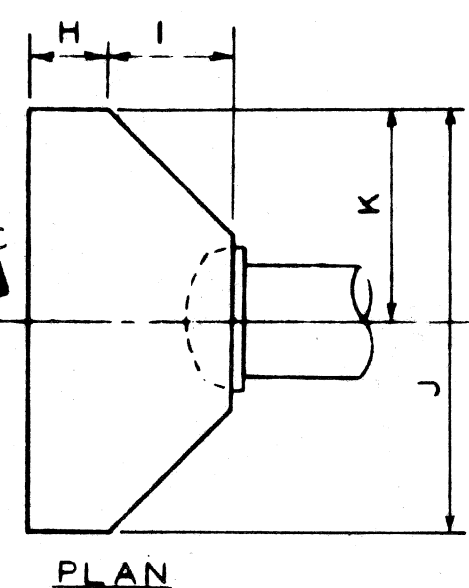
DETAIL OF STANDARD THRUST BLOCKS FOR TEES

No Scale

NOTES
The bearing face of all thrust blocks shall be poured against undisturbed earth. Thrust Blocks will be required on all C.I. Bends 6 inches in Diameter or larger and greater than 11 1/4°.



PLAN

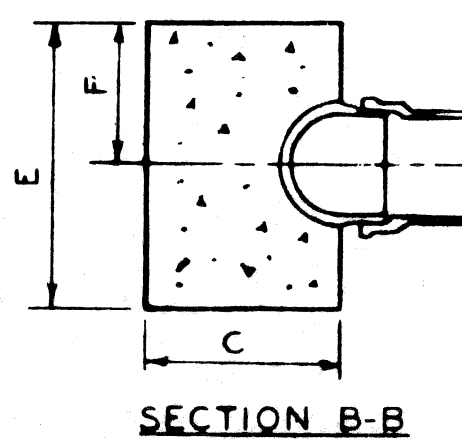


PLAN

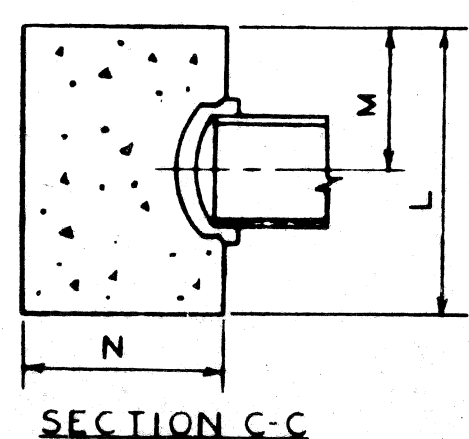
SCHEDULE OF THRUST BLOCK DIMENSIONS									
PLUG SIZE	CODE								
	A	B	C	D	E	F	G		
6" x 8"	0' 9"	1' 2"	3' 0"	1' 6"	2' 0"	1' 0"	1' 11"		
12"	0' 9"	1' 4"	4' 0"	2' 0"	3' 0"	1' 6"	2' 1"		
16"	1' 0"	1' 8"	5' 0"	2' 6"	4' 0"	2' 0"	2' 8"		
CAP SIZE	CODE								
	H	I	J	K	L	M	N		
6" x 8"	0' 9"	1' 2"	3' 0"	1' 6"	2' 0"	1' 0"	1' 11"		
12"	0' 9"	1' 4"	4' 0"	2' 0"	3' 0"	1' 6"	2' 1"		
16"	1' 0"	1' 8"	5' 0"	2' 6"	4' 0"	2' 0"	2' 8"		

DETAIL OF STANDARD THRUST BLOCKS FOR PLUGS & CAPS

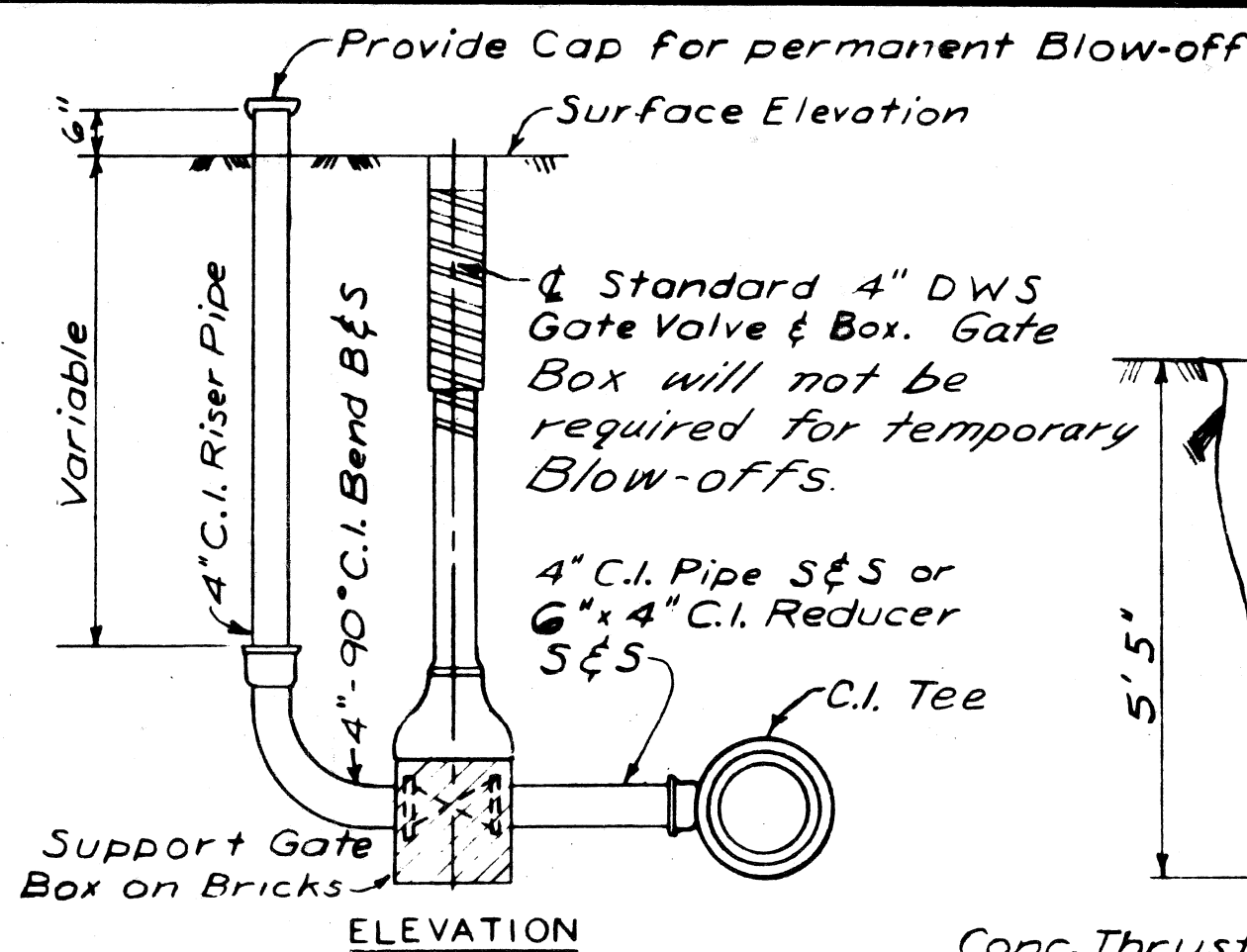
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SECTION B-B

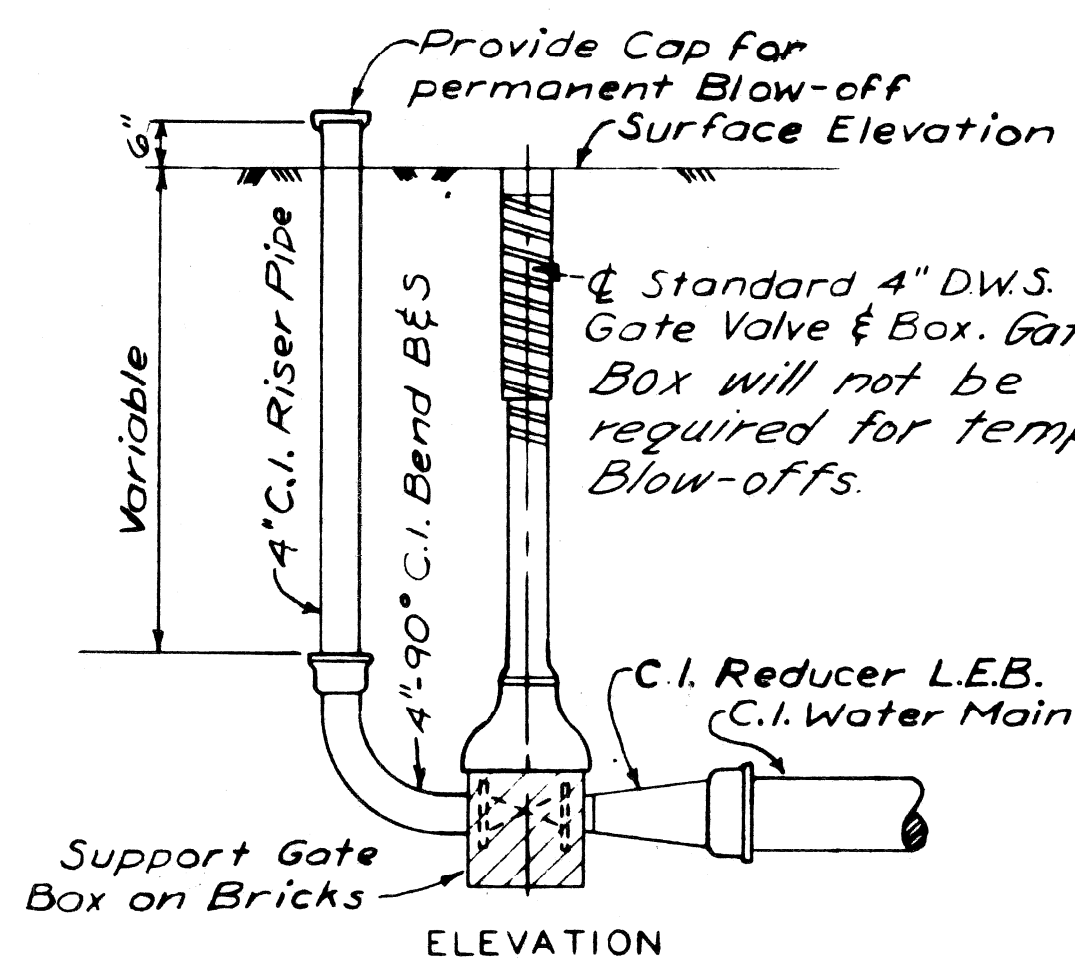


SECTION C-C



DETAIL OF 4" C.I. ELBOW-OFF

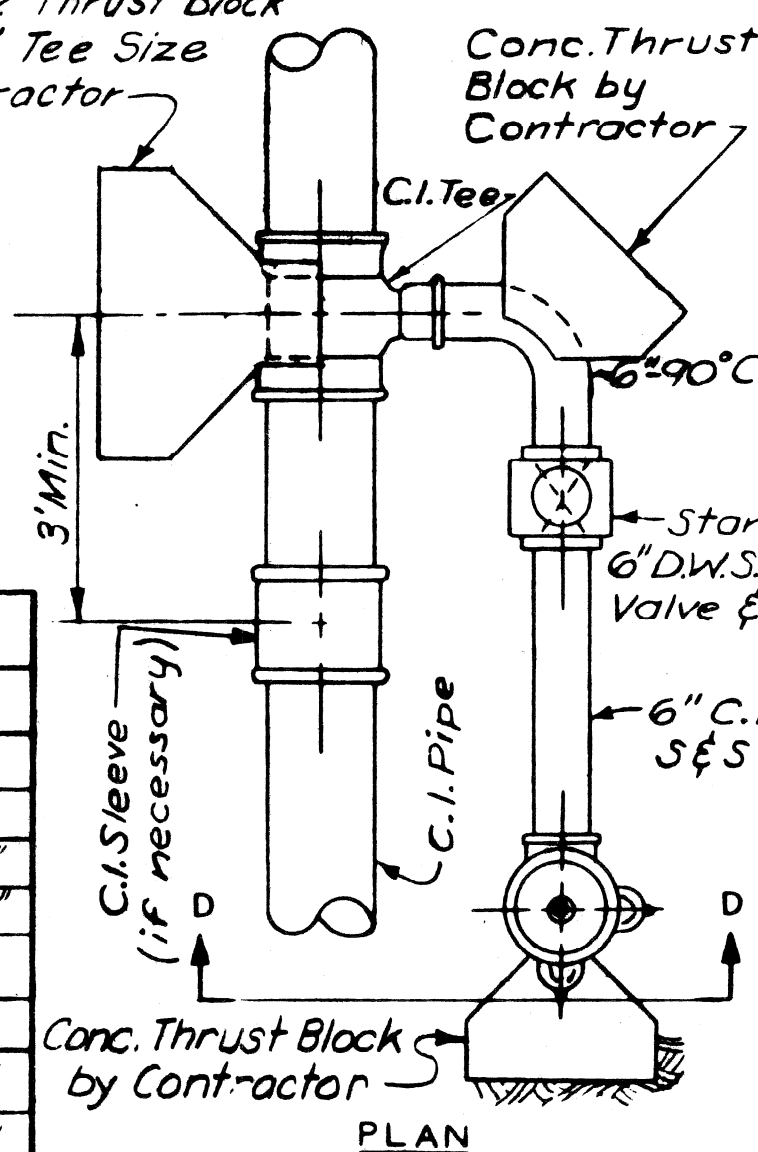
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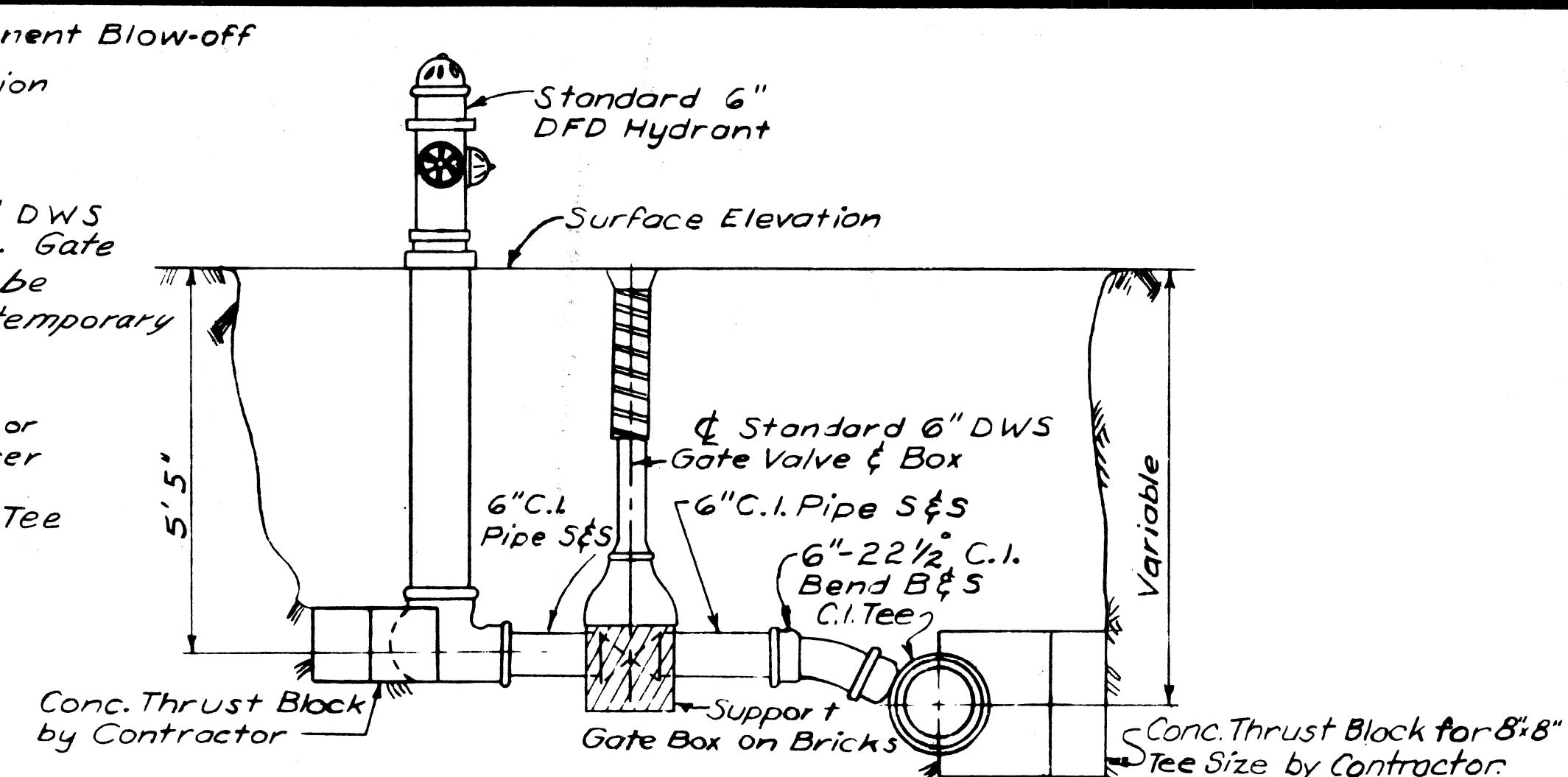
DETAIL OF 4" C.I. BLOW-OFF

No Scale

Concrete Thrust Block for 8" x 8" Tee Size by Contractor

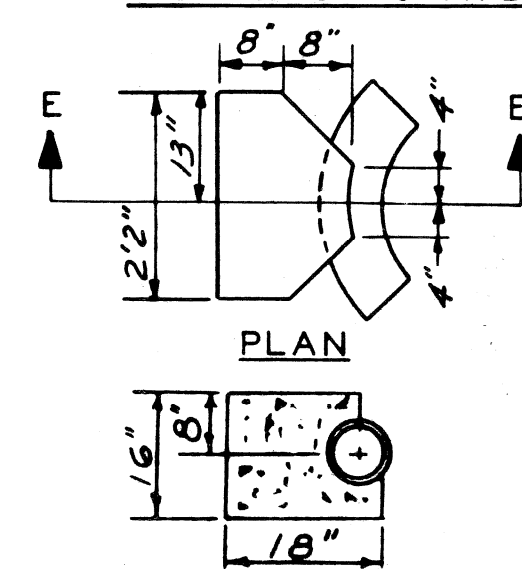


PLAN



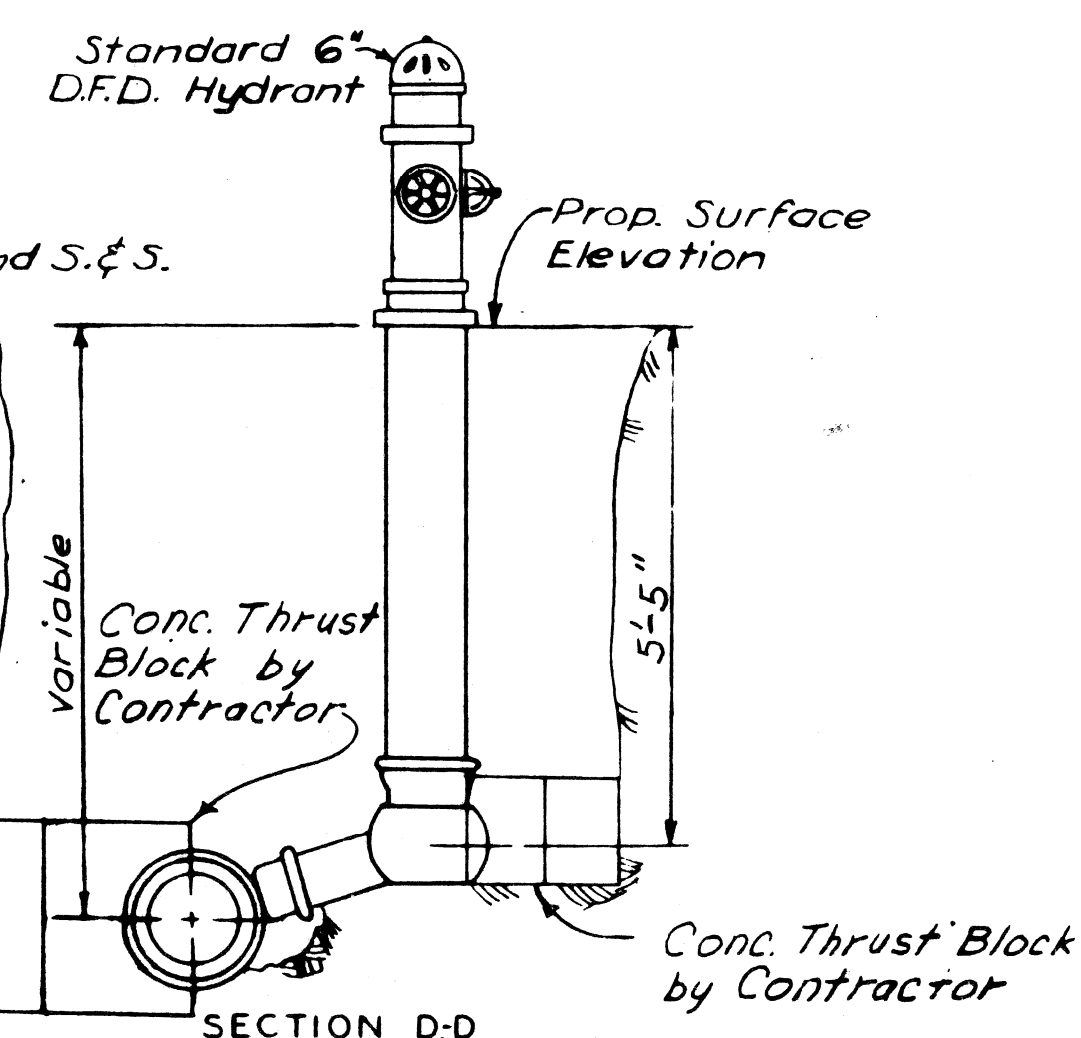
DETAIL OF 6" HYDRANT INSTALLATION

No Scale



SECTION E-E THRUST BLOCK FOR 6" HYDRANT BEND

No Scale



SECTION D-D

No Scale

From the new main the Contractor shall install the Tee, 6" 90° C.I. Bend S.&S., 6" C.I. Pipe, 6" D.W.S. Gate Valve & Box, 6" C.I. Pipe Concrete Thrust Blocks and Hydrant. From any existing main the complete Hydrant installation shall be done by the Contractor.

Hydrants to be a minimum of 6' behind the Curb, unless otherwise shown on the drawings. Dimensions given from Curb are from Pavement Joint line which is at face of Curb

DETAIL OF 6" HYDRANT INSTALLATION

PROJECT NO. T4000 (7) JOB NO. 03187

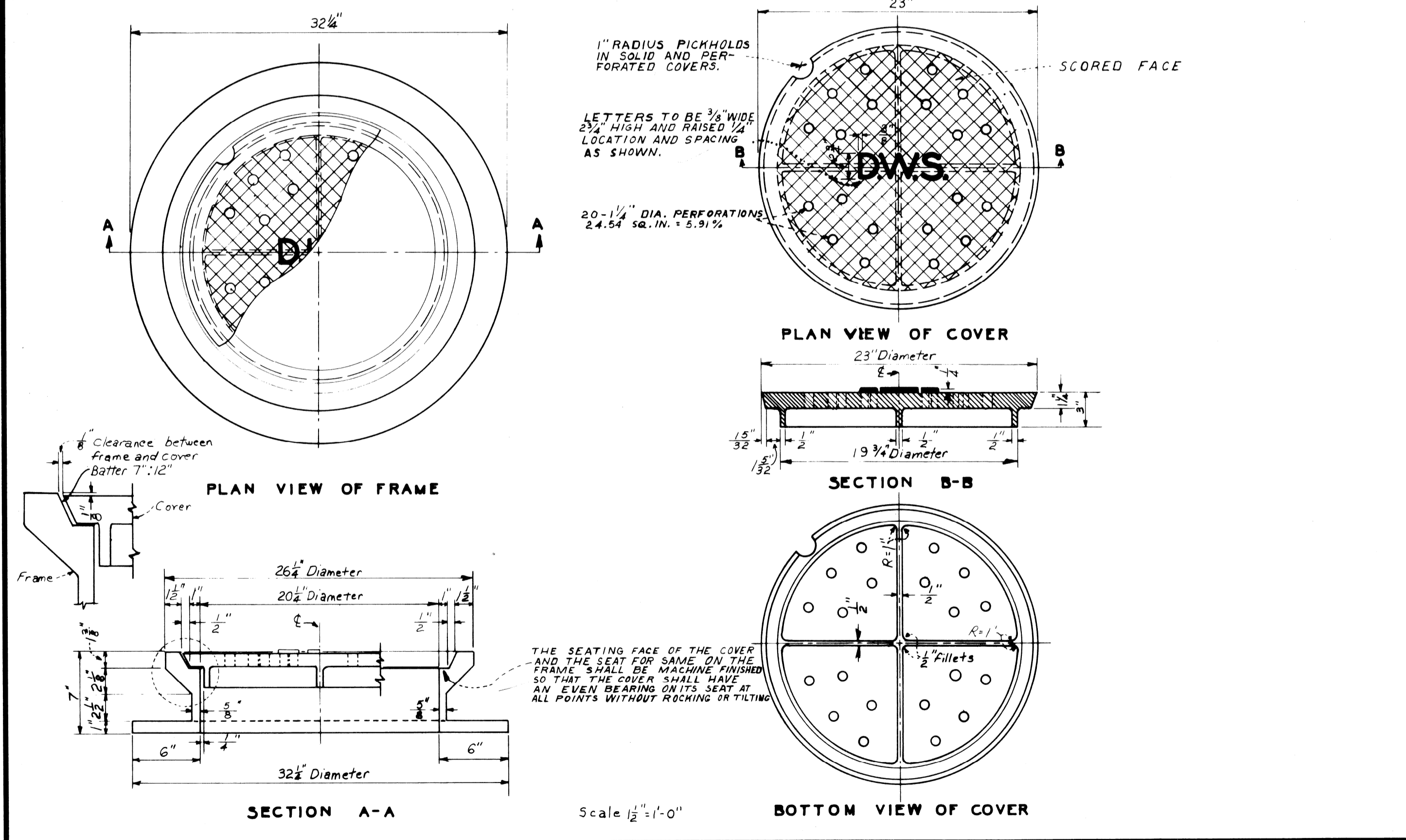
FIRE HYDRANT MISCELLANEOUS DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DESIGNED BY	R.B.P.
DRAWN BY	M.P.
CHECKED BY	J.D.
DATE	

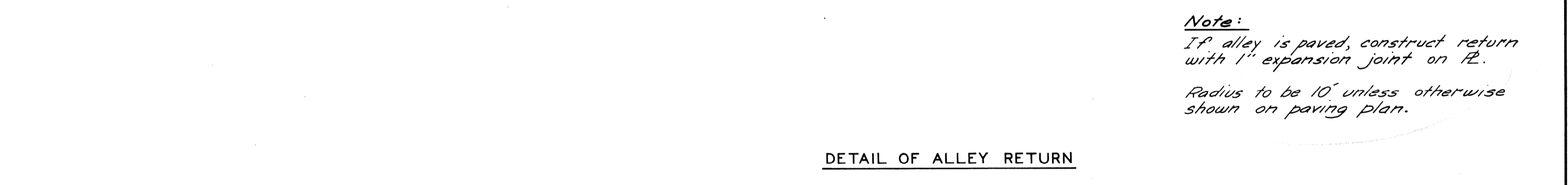
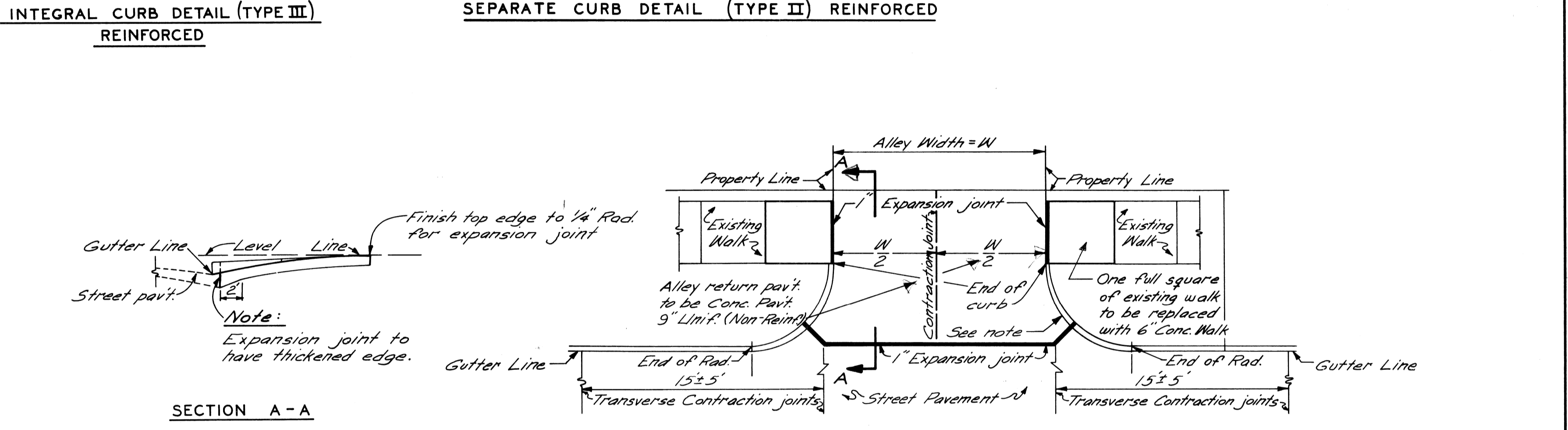
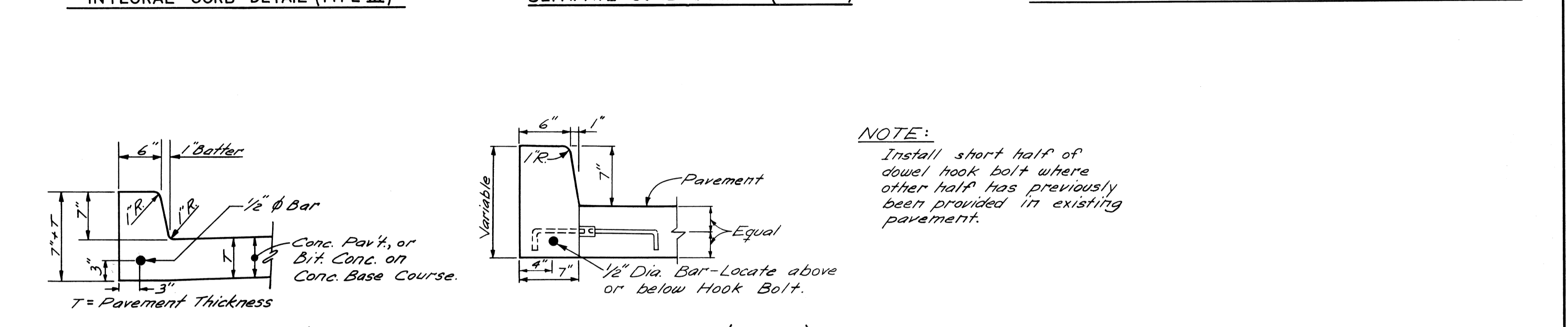
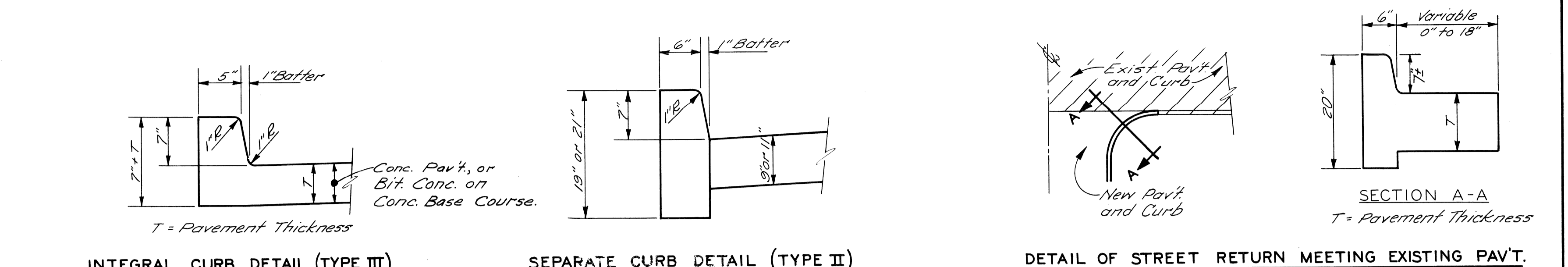
COLOR	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BLACK	---	PROPERTY AND LOT LINES	○	SEWER MANHOLE	#	STREET SIGN POST
"	---	PROPOSED CURB LINES AND HEADERS AT RETURNS	⊙	P.L.C. HANDHOLE. ⊙ P.L.C. MANHOLE.	□	CATCH BASIN
"	---	EXISTING CURB LINES OR EDGE OF PAVEMENT.	⊖	WATER MANHOLE OR GRATE.	(W)	WATER METER.
"	---	PROPOSED CURB OR PAVING ON INTERSECTING STREET.	⊕	GAS MANHOLE OR GRATE.	(-)	WATER SHUT-OFF.
"	---	PROPOSED SEWER TO CATCH BASINS.	⊖	WESTERN UNION MANHOLE.	(+)	GAS SHUT-OFF.
"	---	EXISTING LATERAL SEWERS.	⊕	MICHIGAN BELL MANHOLE.	⊖	GAS DRIP
"	---	EXISTING PUBLIC SEWERS.	⊕	EDISON STEAM MANHOLE.	□	DRAIN OR VENT.
"	---	EXISTING GAS LINES.	⊕	EDISON ELECTRIC MANHOLE.		GUY POLE.
"	---	EXISTING WATER LINES.	⊕	FIRE DEPT. MANHOLE.	⊖	MAIL BOX
"	---	ELEV. OF SEWER INVERT.	⊕	POLICE DEPT. MANHOLE.	⊖	AREAWAY OR COAL CHUTE.
"	---	PROPOSED C.B. M.H. & INLET SEWER	⊕	D.S.R. MANHOLE.	⊖	FLAG POLE
"	---	ELEV.	⊕	FIRE DEPT. STANDARD HYDRANT.	⊖	SPRINKLER BOX
"	---	EXISTING C.B., M.H. & INLET SEWERS	⊕	FIRE DEPT. HIGH PRESSURE HYDRANT.	⊖	DEAD MANHOLE.
"	---	PROPOSED C.B. M.H. & INLET SEWERS ON INTERSECTING STREETS.	⊕	FIRE DEPT. CALL BOX.	⊖	TREE
"	---		⊕	FIRE DEPT. HIGH PRESSURE MANHOLE.	⊖	PLC & F.O. MANHOLE FILLED WITH SAND.
"	---		⊕	POLICE DEPT. CALL BOX.	⊖	TRACK DRAIN.
"	---		⊕	P.L.C. LIGHT POLE.	⊖	TRAFFIC SIGN POST.
"	---		⊕	P.L.C. POLE.	⊖	TRAFFIC SIGNAL LIGHT.
"	---		⊕	TELEPHONE POLE.	⊖	TRAFFIC SIGNAL ON LIGHT POST.
"	---		⊕	EDISON POLE.	⊖	D.S.R. DANGER PLATE.
			---	DETROIT EDISON ELECTRIC CONDUIT.		
			---	DETROIT EDISON STEAM CONDUIT.		
			---	WESTERN UNION DUCTS.		
			---	MICHIGAN BELL TELEPHONE DUCTS.		
			---	P.L.C. CONDUITS.		
			---	DETROIT FIRE OR POLICE DEPT CONDUITS (PLC COMMUNICATIONS)		

DESIGNED BY	APPROVED	CITY OF DETROIT	STANDARD SYMBOLS FOR UTILITIES
DRAWN BY T. KANG	R. H. Hicks	DEPARTMENT OF PUBLIC WORKS	
TRACED BY T.K.	ASST. CITY ENGINEER	CITY ENGINEER'S OFFICE	
CHECKED BY J. KAWASZ	CITY ENGINEER	BUREAU OF DESIGN	
DESCRIPTION	DATE	PAVING	BOOK NO.
REVISIONS		DETAIL NO. 25	SCALE NO. SCALE
			PAGE NO.
			DATE 10-11-34
			DWG. NO. C-902-A



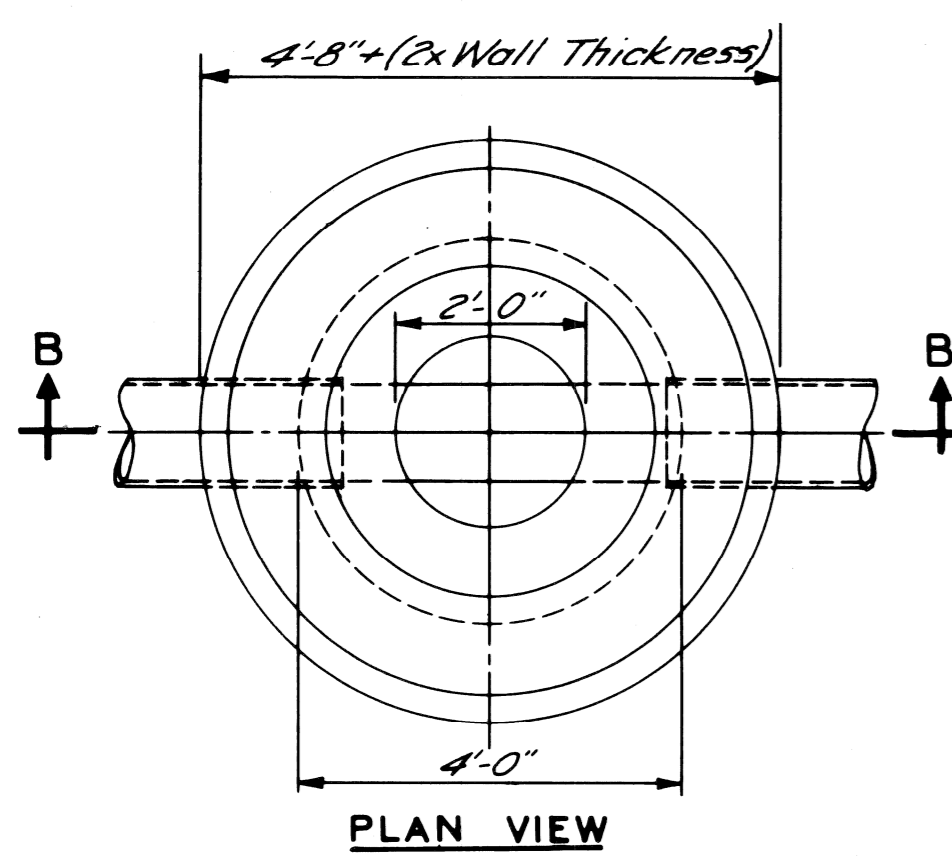
DESIGNED BY	APPROVED	CITY OF DETROIT	DETAILS OF STANDARD
DRAWN BY Jackson	R. H. Hicks	DEPARTMENT OF PUBLIC WORKS	- MANHOLE FRAME AND COVER -
TRACED BY	ASST. CITY ENGINEER	CITY ENGINEER'S OFFICE	
CHECKED BY J. KAWASZ	CITY ENGINEER	BUREAU OF DESIGN	
DESCRIPTION	DATE	BOOK NO.	SCALE: AS SHOWN
REVISIONS		DATE: OCTOBER 14, 1936	DETAIL STANDARD NO. 14
			DWG. NO. C.4391

DESIGNED BY	APPROVED	CITY OF DETROIT
DRAWN BY J.D.	W. J. Pugh	DEPARTMENT OF PUBLIC WORKS
TRACED BY	ENGINEER OF EXPRESSWAYS	CITY ENGINEER'S OFFICE
CHECKED BY IK/RP		BUREAU OF DESIGN
DESCRIPTION	DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET		

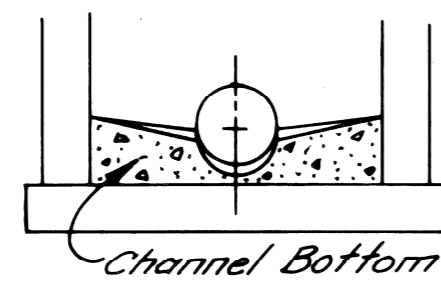


DESIGNED BY	APPROVED	CITY OF DETROIT	STANDARD DETAILS & SPECIAL DETAILS
DRAWN BY J.D.	W. J. Pugh	DEPARTMENT OF PUBLIC WORKS	
TRACED BY	ENGINEER OF EXPRESSWAYS	CITY ENGINEER'S OFFICE	
CHECKED BY IK/RP		BUREAU OF DESIGN	
DESCRIPTION	DATE	BOOK NO.	SCALE: AS SHOWN
REVISIONS		DATE: OCTOBER 14, 1936	DETAIL STANDARD NO. 14
			DWG. NO. C.4391

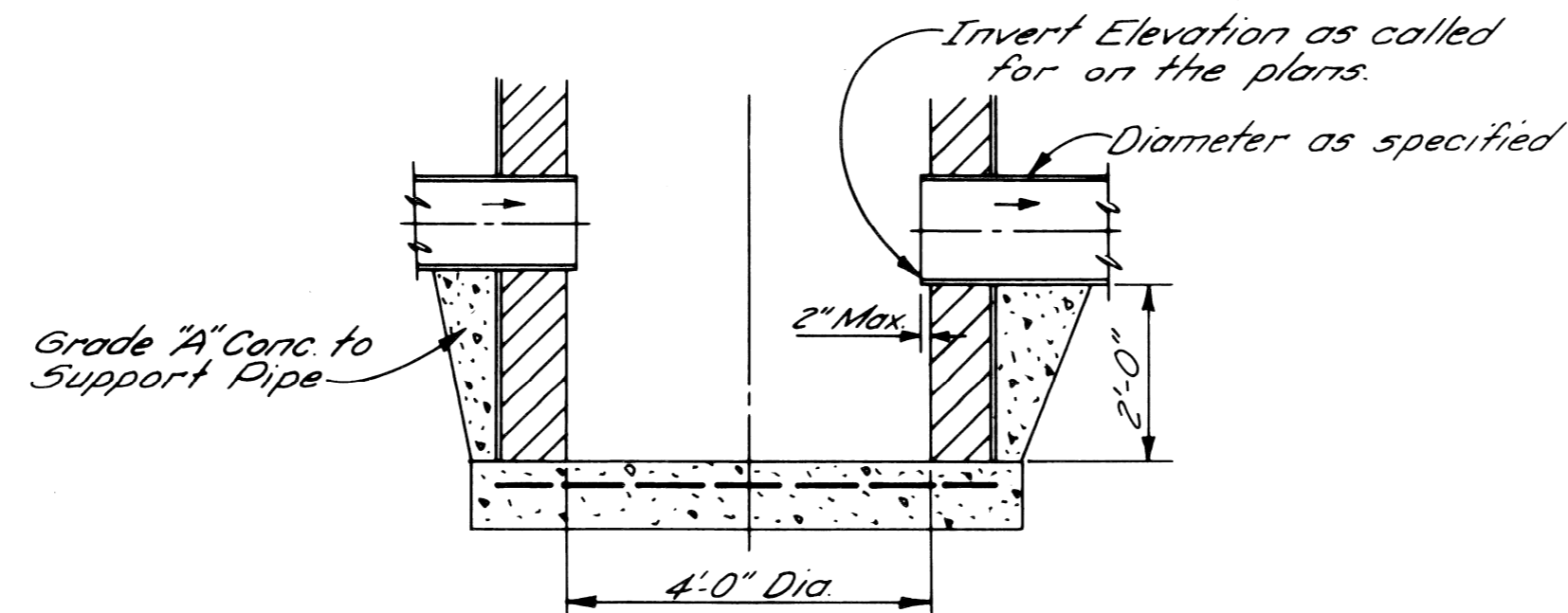
SHEET 16 OF 43 SHEETS
PROJECT NO. T4000 (7)
JOB NO. 03187
DATE 2-18-72



NOTE "A"
 Wall thickness shall be 8" from the top of structure to a depth of 15 feet. Below 15 feet the thickness of wall shall be 12".

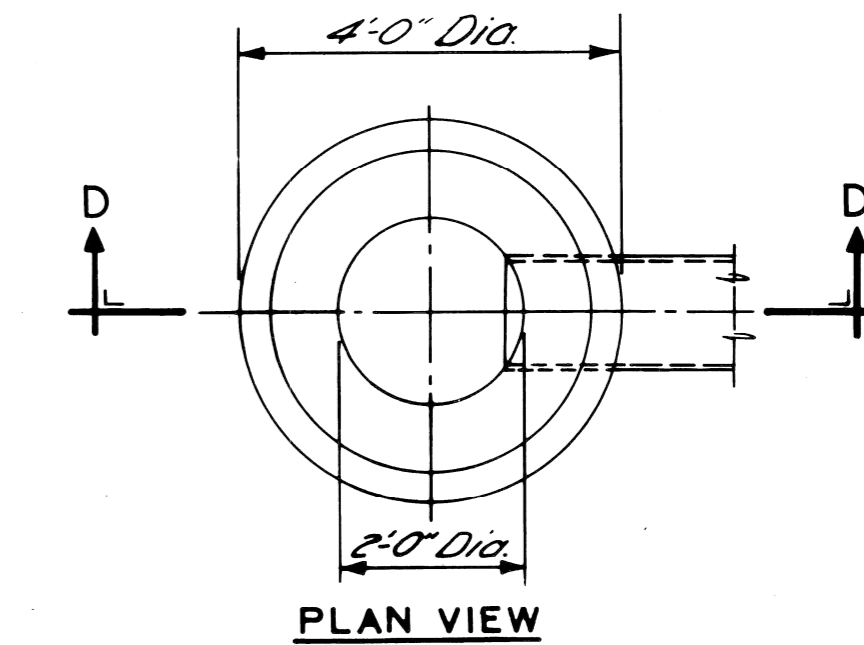


SECTION C-C



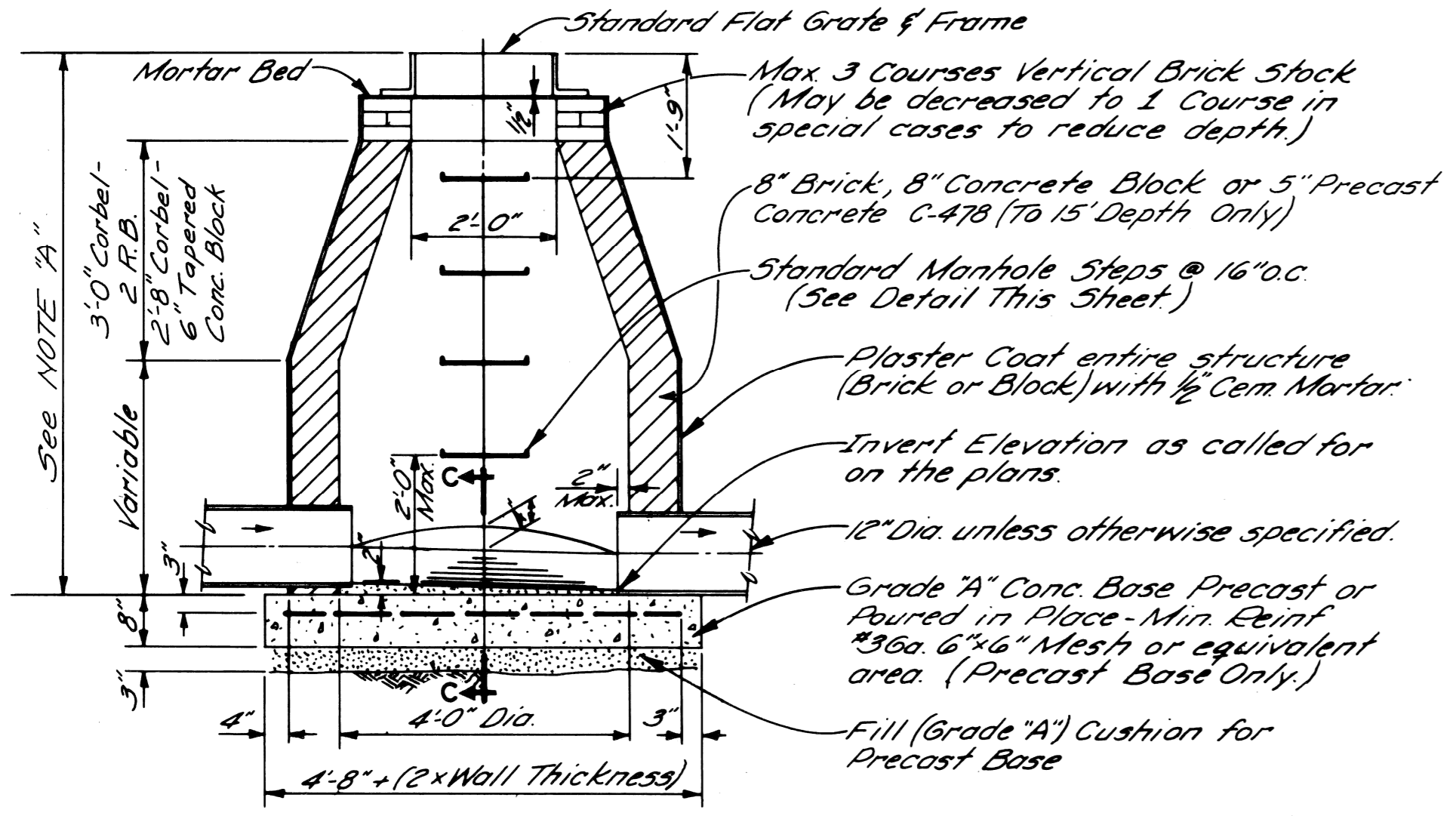
DETAIL OF SUMP FOR CATCH BASIN "B"

NO SCALE



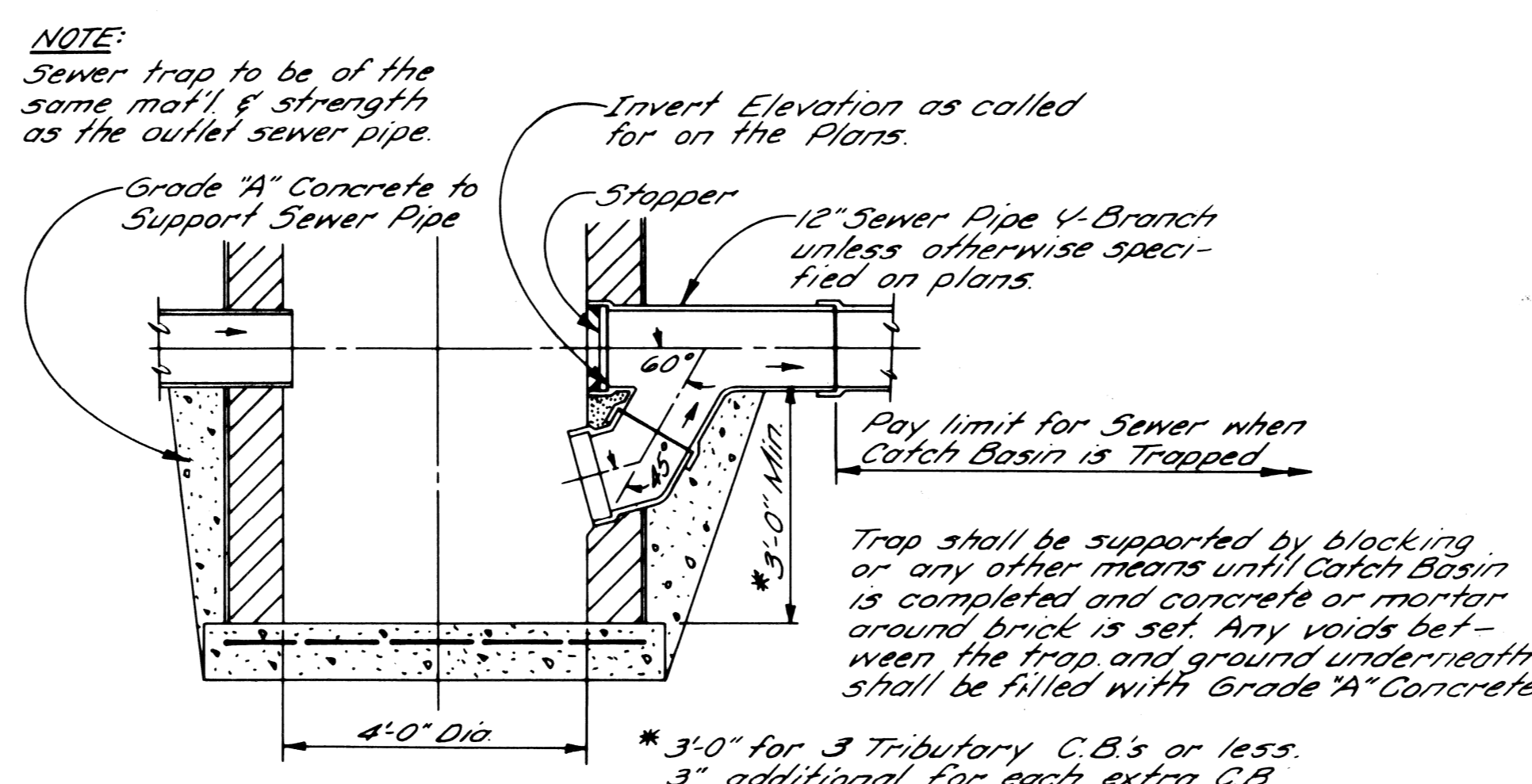
NOTE:
 Catch Basin "A" will be used only when outletting to a Catch Basin "B"

PLAN VIEW



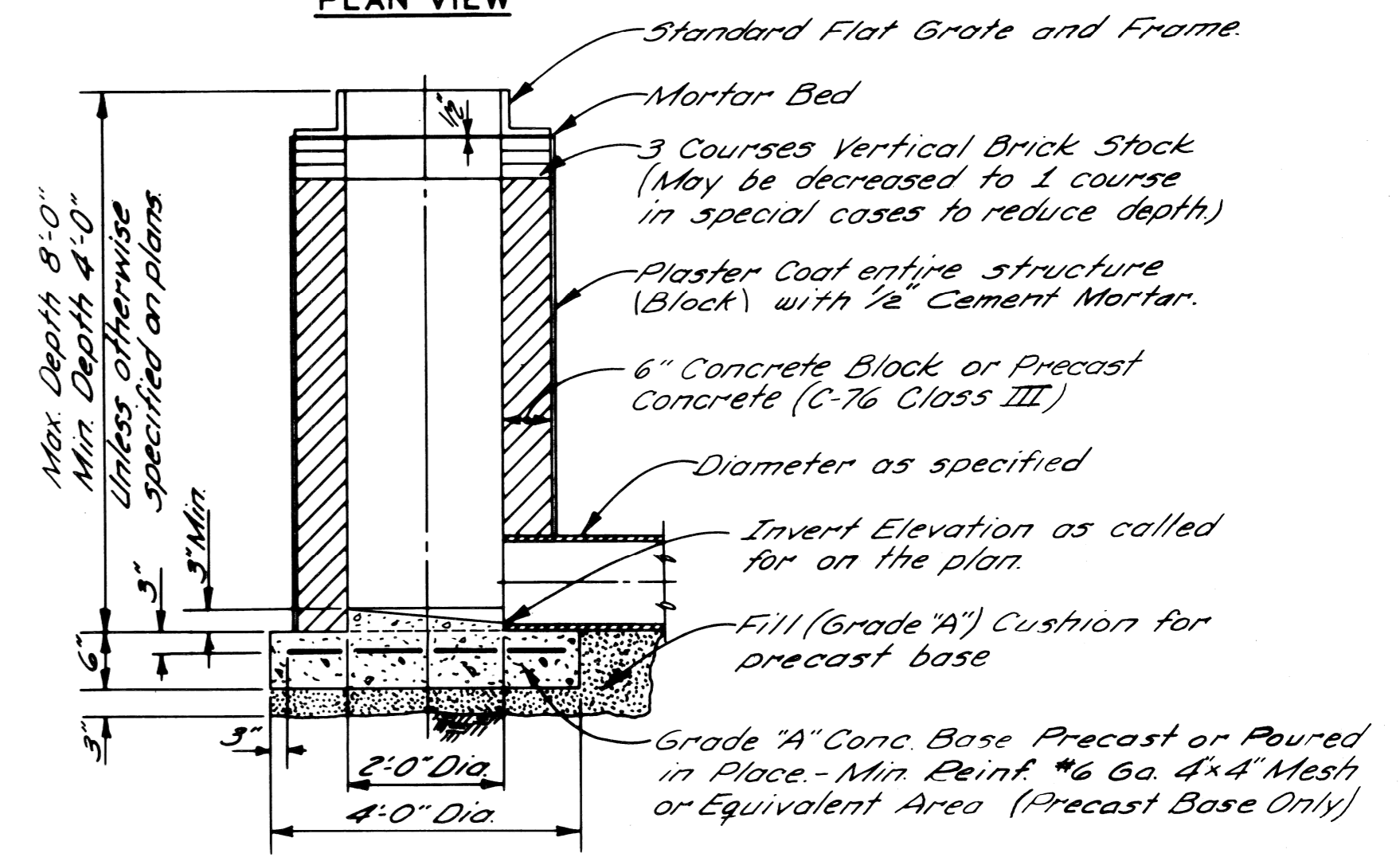
CATCH BASIN "B"

NO SCALE



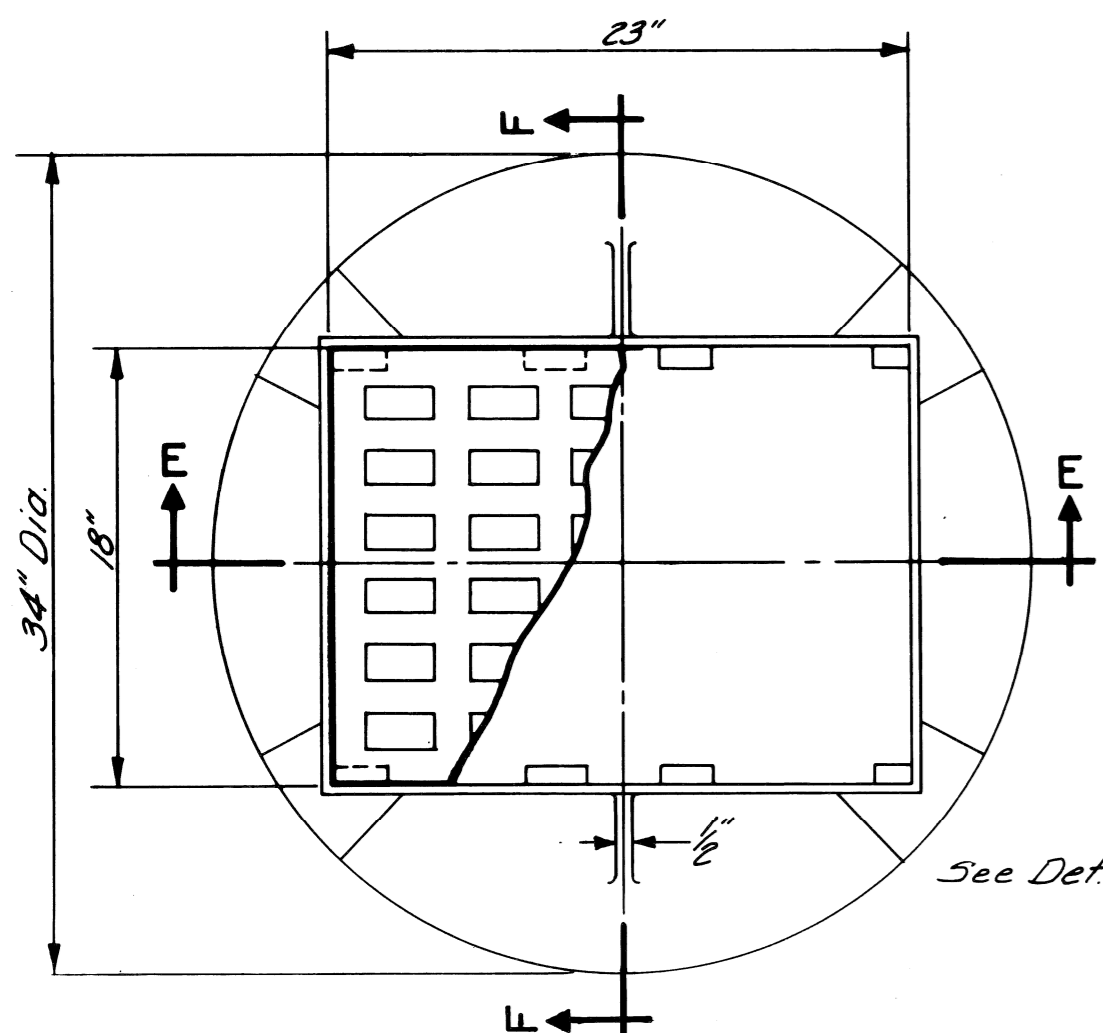
DETAIL OF TRAP FOR CATCH BASIN "B"

NO SCALE

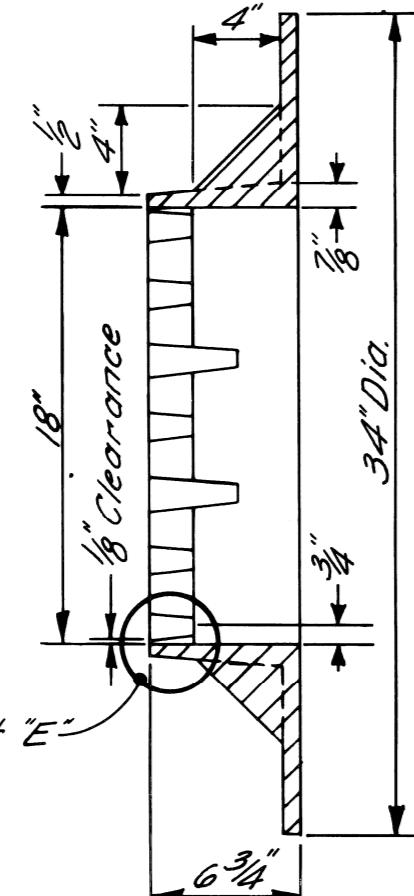


CATCH BASIN "A"

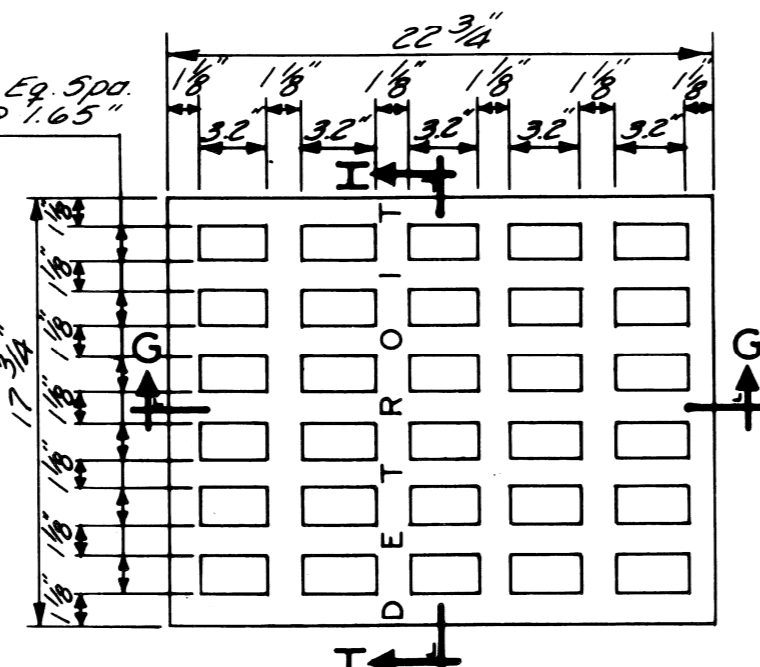
NO SCALE



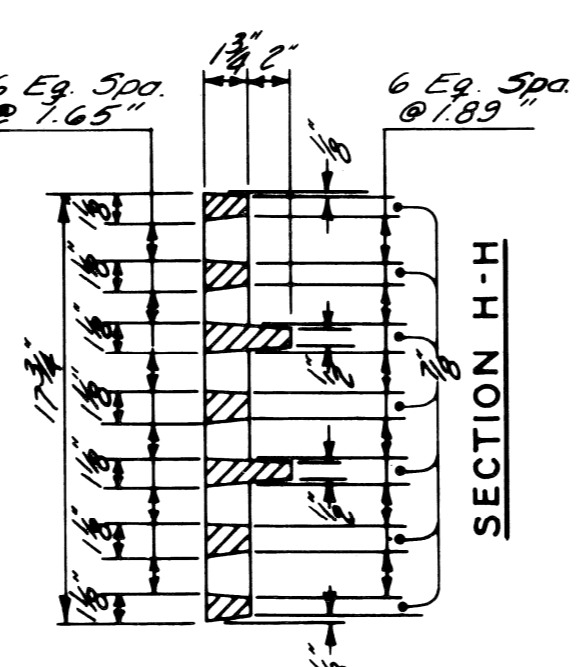
PLAN VIEW OF FRAME



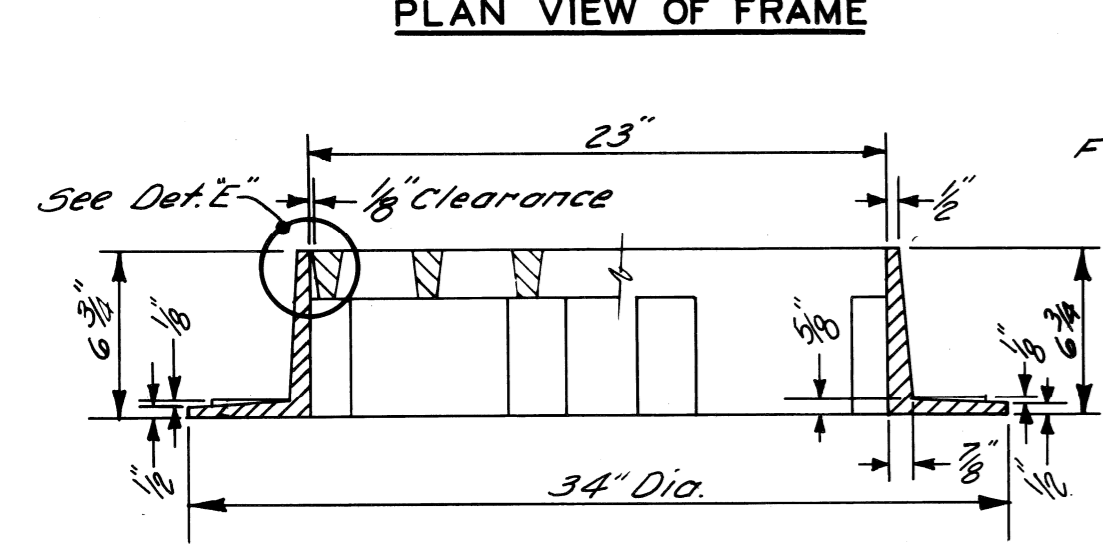
DETAIL "E"



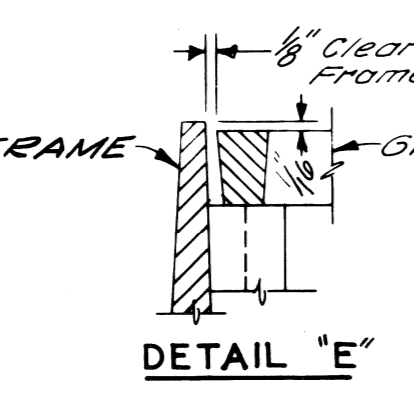
PLAN VIEW OF GRATE



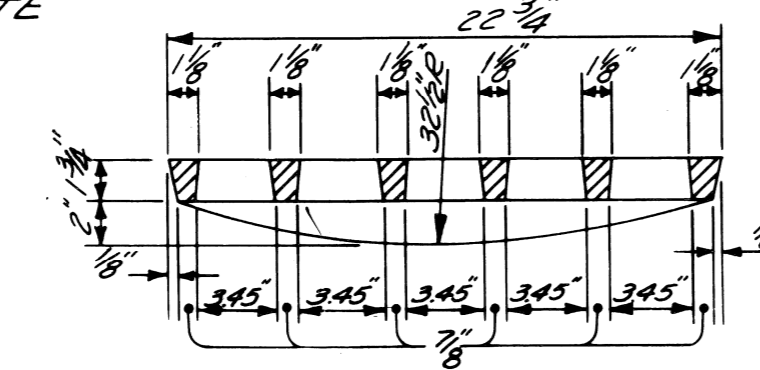
SECTION H-H



SECTION E-E



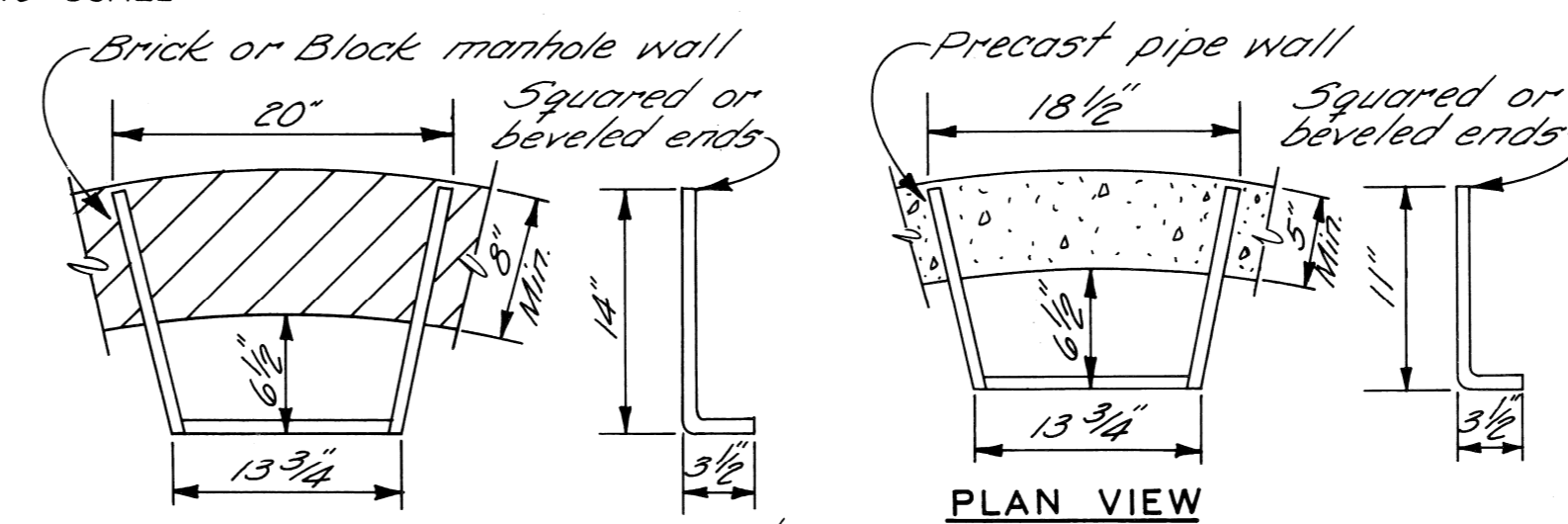
DETAIL "E"



SECTION G-G

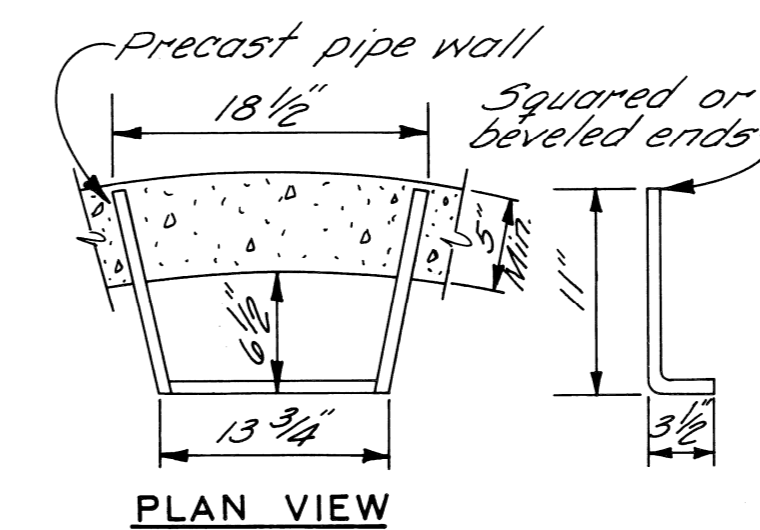
STANDARD FLAT GRATE AND FRAME

NO SCALE



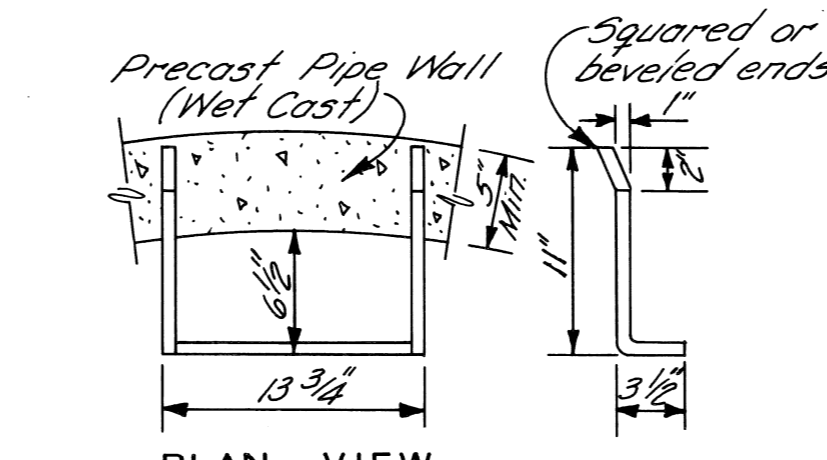
PLAN VIEW

(USE WITH BRICK OR BLOCK M.H.)



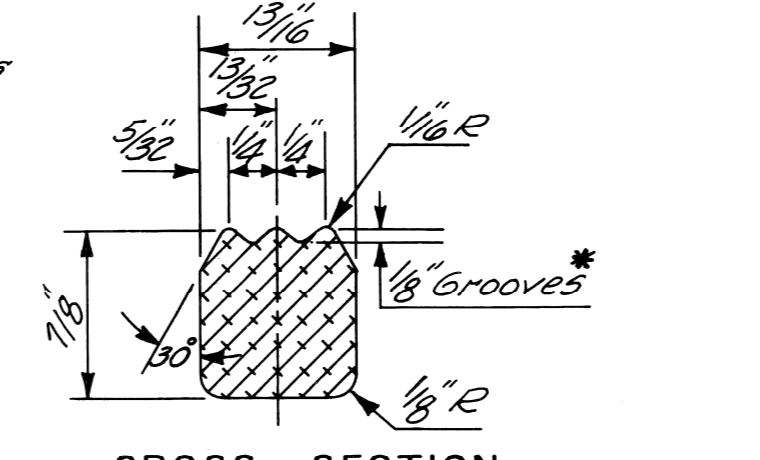
PLAN VIEW

(USE WITH PRECAST M.H. UNITS)



PLAN VIEW

(USE WITH WET CAST M.H. UNITS)



CROSS-SECTION

*Note: In lieu of grooves, alternate foot hold configurations will be considered for approval.

ALUMINUM MANHOLE STEP STANDARD DETAILS

NO SCALE

NOTES:

- Manhole steps shall conform to the requirements for Aluminum Alloy Extruded Bars, Rods, Shapes & Tubes, A.S.T.M. B221 (Current), Alloy 6061, Temper T-6 or approved equal.
- Either the flared leg or parallel leg step may be used for poured in place concrete construction or in wet cast manhole units.
- The parallel leg step shall be used in existing structures by placing in drilled holes and grouting with non-shrink grout.

GENERAL NOTES

- The materials & workmanship shall be in accordance with the current Standard Specifications.
- Center of Catch Basin shall be 20 inches from back of curb.
- All sizes & flow lines of pipe, and elevations for top & bottom of structures shall be determined from the plans or construction requirements. The bell shall be removed from the first length of outlet pipe projecting through the wall of the structures. When any structure is constructed of precast concrete or concrete block, the top of the masonry shall be left sufficiently low to permit proper adjustment of cover to grade by the use of mortar or bricks as directed by the Engineer.
- A Trap, as detailed on this sheet, shall be placed where called for in the outlet sewer line of Catch Basins "B". This trap shall be set into the masonry wall as shown on the detail. The space between the faces of the wall & the trap shall be completely filled with cement, mortar or concrete, so as to hold Trap securely in place. Tile Traps will be paid for separately at the Contract Unit Price each, which price shall include the extra catch basin construction required and for furnishing and installing the trap.
- A plaster coat of mortar 1/2 inch in thickness shall be applied to the outer surface of the structure as shown. A 1/2 inch cement plaster coat shall be placed on the inside of all sumps.
- Contractor shall verify elevations of existing utilities to enable construction to indicated elevations shown on drawings. If necessary, invert elevations shown on the drawings may be altered in the field to clear existing utilities. Such alterations, upward or downward, shall be at no change in contract price.
- When precast concrete pipe sections are used for catch basins, either a section of the inlet and outlet pipes or an opening or eye for the inlet & outlet pipes shall be cast into the wall of the catch basin pipe when it is being manufactured. Eyes in precast pipe sections shall be furnished to accommodate a flexible joint connection such as Press-Wedge by Press Seal Gasket Corp or Res-Seal by Scales Mfg. Corp.
- Pay limit for sewers shall be inside faces of structures unless otherwise noted.

DESIGNED BY	M. POLITO
DRAWN BY	
TRACED BY	
CHECKED BY	D. MILZ

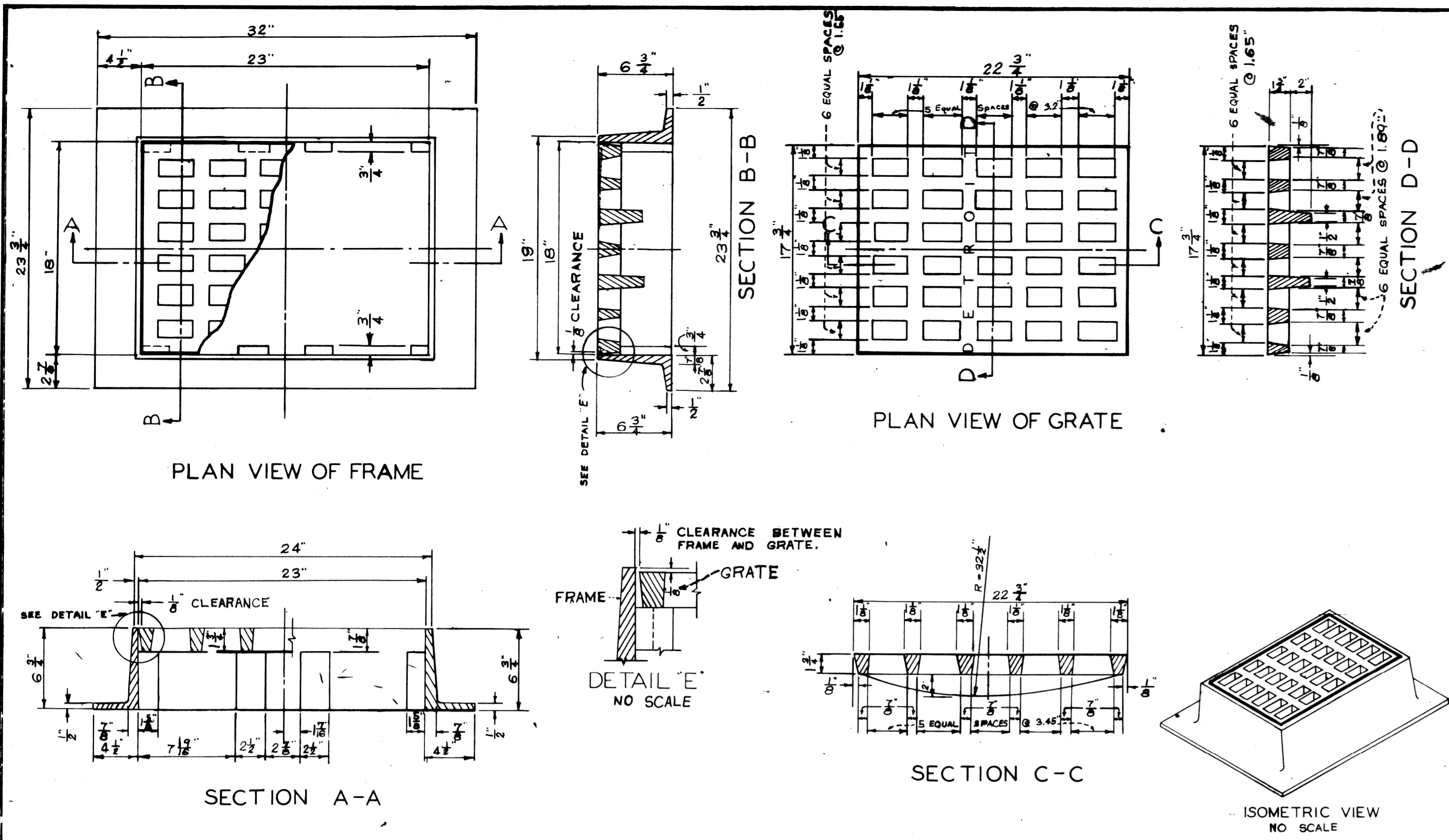
APPROVED:

 ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

DETAILS OF STANDARD
 CATCH BASINS "A" & "B"
 AND FLAT GRATE & FRAME

SHEET	17	OF	43	SHEETS
PROJECT NO.	T4000 (7)			
JOB NO.	03187			
DATE	2-18-72			



F		DESIGNED BY	APPROVED	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
E		DRAWN BY	ENGINEER OF STREETS	
D	REMOVE NOTE, REVISED			
C	DIMENSIONS & SIGNATURES KMG			
B	ADDED NAME (NORTH) J.E.			
A	SUPERCEDES DRAW C-104	TRACED BY	ASST. CITY ENGINEER	
DESCRIPTION		DRW. CKD	APR. DATE	
REVISIONS		CHECKED BY	CITY ENGINEER	BOOK NO. PG. SCALE 1/2" = 1'-0" DATE MAR 2 1972 DETAIL STANDARD NO. 15 DWG. NO. C-4392

NO.	DESCRIPTION	DRN	CKD	AP	VD	DATE

DESIGNED BY		APPROVED	
DRAWN BY		ENGINEER OF EXPRESSWAYS	
CHECKED BY			
FINAL REVIEW			

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

DETAILS OF STANDARD
 FLAT GRATE AND FRAME
 FOR CATCH BASIN "Y"

SHEET 17 A OF 43 SHEETS	
PROJECT NO.	T 4000(7)
JOB NO.	03187
DATE	3-14-72

LEGEND & GENERAL INFORMATION SHEET

GENERAL NOTES

UNDERGROUND

- ₁ EXISTING P.L.C. MANHOLE
- ₂ EXISTING P.L.C. HANDHOLE
- ₃ EXISTING P.L.C. DUCT RUN (4-3" SHOWN)
- ₄ EXISTING L.G. FEED ST. LTG. UNIT

OVERHEAD

- ₁ EXISTING WOOD POLE (D.E.G. POLE SHOWN)
- ₂ REMOVE WOOD POLE P.L.C. POLE SHOWN & ALL ASSOCIATED EQUIPMENT
- ₃ REPLACE WOOD POLE (HEIGHT & CLASS AS INDICATED)
- ⊗₄ POLE TO BE RELOCATED BY THE CITY
- ⊗₅ POLE TO BE REPLACED BY MAST
- X₆ INSTALL WOOD POLE (5' CLASS 4 EXCEPT AS OTHERWISE INDICATED. SET 2'-3" BACK OF CURB UNLESS OTHERWISE NOTED.

- ₁ EXISTING OVERHEAD ST. LTG. UNIT
- ₂ REMOVE OVERHEAD ST. LTG. UNIT
- ₃ INSTALL OVERHEAD ST. LTG. UNIT WITH 2 FT. ARM 4" SIZE & JOONMATT MERCURY VAPOR LUMINAIRE (I.E.S. TYPE II) WITH 400 WATT INTEGRAL BALLAST & CLEAR LAMP. CONNECT TO CIRCUIT INDICATED (AS SHOWN)

- 1/2" (SEE 155) — EXISTING OVERHEAD LINE (2" 1/2" OF GREENFIELD) (AS SHOWN)
- 1/2" (SEE 155) — REMOVE OVERHEAD LINE (2" 1/2" OF GREENFIELD) (AS SHOWN)
- 1/2" — INSTALL OVERHEAD LINE (3" 2" MULTIPLE ST. LTG. ON Poles SHOWN)
- T — INSTALL OVERHEAD LINE (1" 6" TRIPLEX MULTIPLE ST. LTG. ON TRIPLEX BRKTS. SHOWN)
- — — — — INSTALL OVERHEAD LINE (1" 3" DUPLEX)
- — — — — INSTALL OVERHEAD LINE (1" 6" WIRE)
- (1/2") — INSTALL GUY & ANCHOR (3/8" GUY SHOWN)
- (1/2") — REMOVE GUY & ANCHOR ROD
- (1/2") — INSTALL POLE GUY (3/8" GUY SHOWN)
- (1/2") — REMOVE GUY (TYPE AS INDICATED)

INST. MATERIAL TO BE INSTALLED
 REM. MATERIAL TO BE REMOVED

REPL. REPLACE

- C.P. CABLE POLE
- MSS MAKE WOOD POLE SELF-SUPPORTING IN CONCRETE
- MA MAST ARM
- A P.L.C. SERIES ST. LTG. WIRE
- C P.L.C. DISTRIBUTION WIRE
- CS P.L.C. SECONDARY WIRE
- E D.E.G. DISTRIBUTION WIRE
- ES D.E.G. SECONDARY WIRE
- M P.L.C. MULTIPLE ST. LTG. WIRE
- T P.L.C. TRIPLEX MULT. ST. LTG. WIRES
- B MICH. BELL TEL. WIRE OR CABLE
- P POLICE COMMUNICATIONS WIRE
- F FIRE COMMUNICATIONS WIRE
- TS P.L.C. TRAFFIC SIGNAL WIRE OR CABLE
- ⊗ INDICATES WIRE TO BE RELOCATED TO NEW PIN POSITION ON X ARM
- X INDICATES WIRE TO BE REMOVED
- A INDICATES WIRE TO BE INSTALLED
- 596 SINGLE 96" CROSS ARM
- DBL 120 DOUBLE 120" CROSS ARM

UNDERGROUND UTILITIES

- DETROIT EDISON
- MICHIGAN BELL TELEPHONE
- MICHIGAN CONSOLIDATED GAS CO.
- DETROIT METRO WATER SERVICE
- PUBLIC LIGHTING COMMISSION

1. ALL EXISTING STREET LIGHTING TRAFFIC SIGNAL PRIMARY ETC. CIRCUITS SHALL ALWAYS BE MAINTAINED IN AN OPERATIONAL CONDITION EXCEPT WHERE OTHERWISE NOTED.
2. INSTALLATION OF AREAS FOR EQUIPMENT CUTOUPS PATHWAYS TRANSFORMER FEEDS ETC. ARE NOT SHOWN ON NEW CABLE AND TRANSFORMER Poles. THEY SHALL BE INSTALLED AS PER THE DETAIL DRAWING REQUIREMENT AND SHALL BE INCIDENTAL TO FITTING UP THE CABLE AND/OR TRANSFORMER POLE.
3. ALL TRANSFORMER Poles AND TAPLE Poles SHALL BE FITTED UP WITH 20' ABOVE (EXCEPT WHERE OTHERWISE NOTED)
4. ALL NEW ANCHOR GUYS SHALL BE INSTALLED ON A 1:1 RATIO OR AT 1 BARLY AS POSSIBLE (EXCEPT WHERE OTHERWISE NOTED) STRUT GUYS ARE EXCEPTED.
5. EXISTING O.H. AND T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.
6. ALL OVERHEAD WIRES AND UNDERGROUND CABLES SHALL CONSIST OF COPPER CONDUCTORS AS PER THE SPECIFICATION.
7. ALL ST. LTG. CABLES OF CIRCUITS CONVERTED TO MULTIPLE FEED SHALL BE TAPPED IN ALL MANHOLES & HANDHOLES.
8. ALL MATERIAL SHALL BE FURNISHED BY THE CONTRACTOR, EXCEPT WHERE OTHERWISE NOTED. ALL MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE P.L.C. AND DELIVERED TO SUCH LOCATION AS DESIGNATED BY THE P.L.C. ANY MATERIAL REMOVED AND NOT WANTED BY THE P.L.C. SHALL BE DISPOSED OF BY THE CONTRACTOR AND WILL NOT BE PAID FOR SEPARATELY.

DATE	DESCRIPTION	CHKD BY

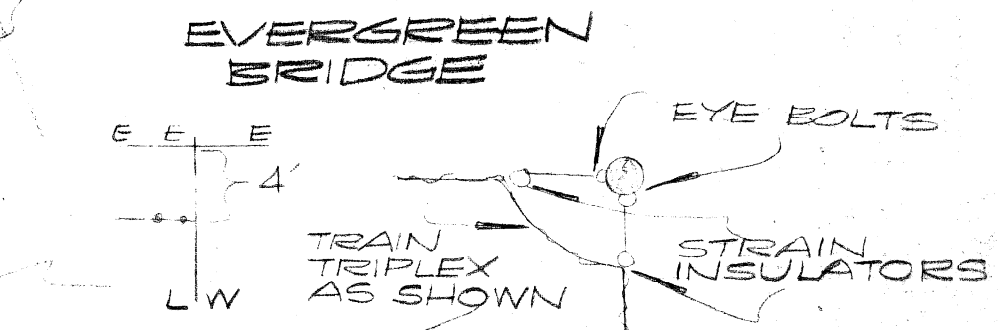
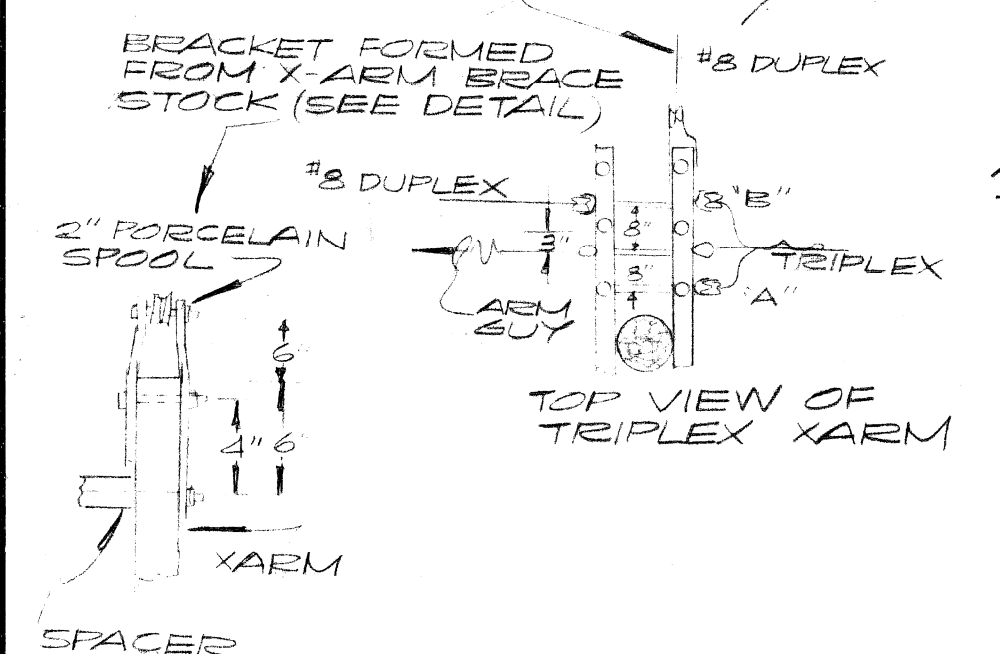
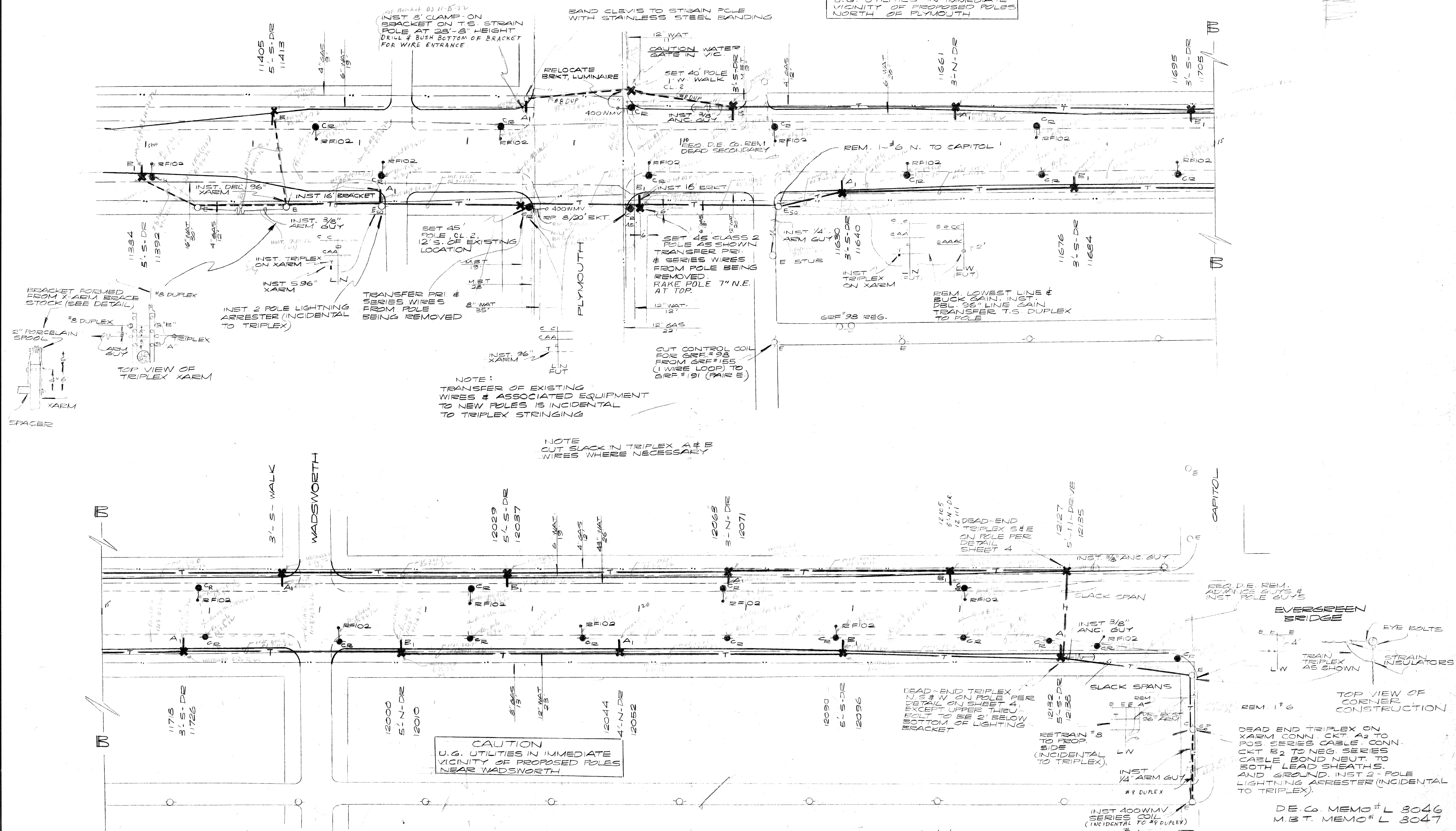
RELIGHTING OF WIDENED EVERGREEN S. OF PLYMOUTH TO N. OF SCHOOLCRAFT

DRAWN BY
 CHECKED BY
 DATE

PUBLIC LIGHTING COMMISSION
 CITY OF DETROIT

19 OF 43
 PLAN NO. 49-0545
 SHEET NO. 1 OF 5
 DATE 3-30-71

CAUTION
U.G. UTILITIES IN IMMEDIATE
VICINITY OF PROPOSED POLES
NORTH OF PLYMOUTH



DATE	DESCRIPTION	CHKD. BY
3/28/77	MISC. REVISIONS	EG

RELIGHTING OF WIDENED EVERGREEN
S. OF PLYMOUTH TO N. OF SCHOOLCRAFT

SCALE 1" = 40'

DRAWN BY
E.M.E.

CHECKED BY
E.M.E.

APPROVED BY
E.M.E.

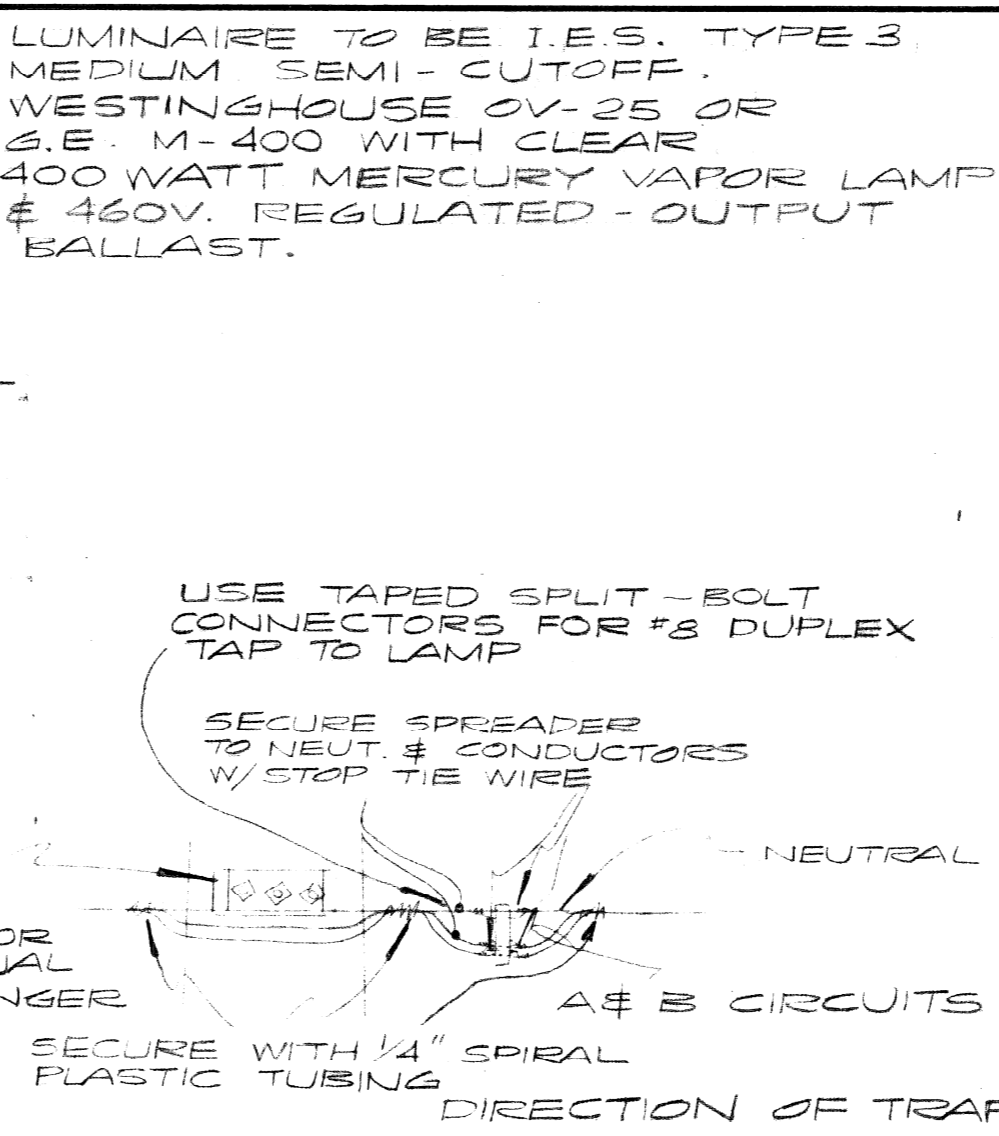
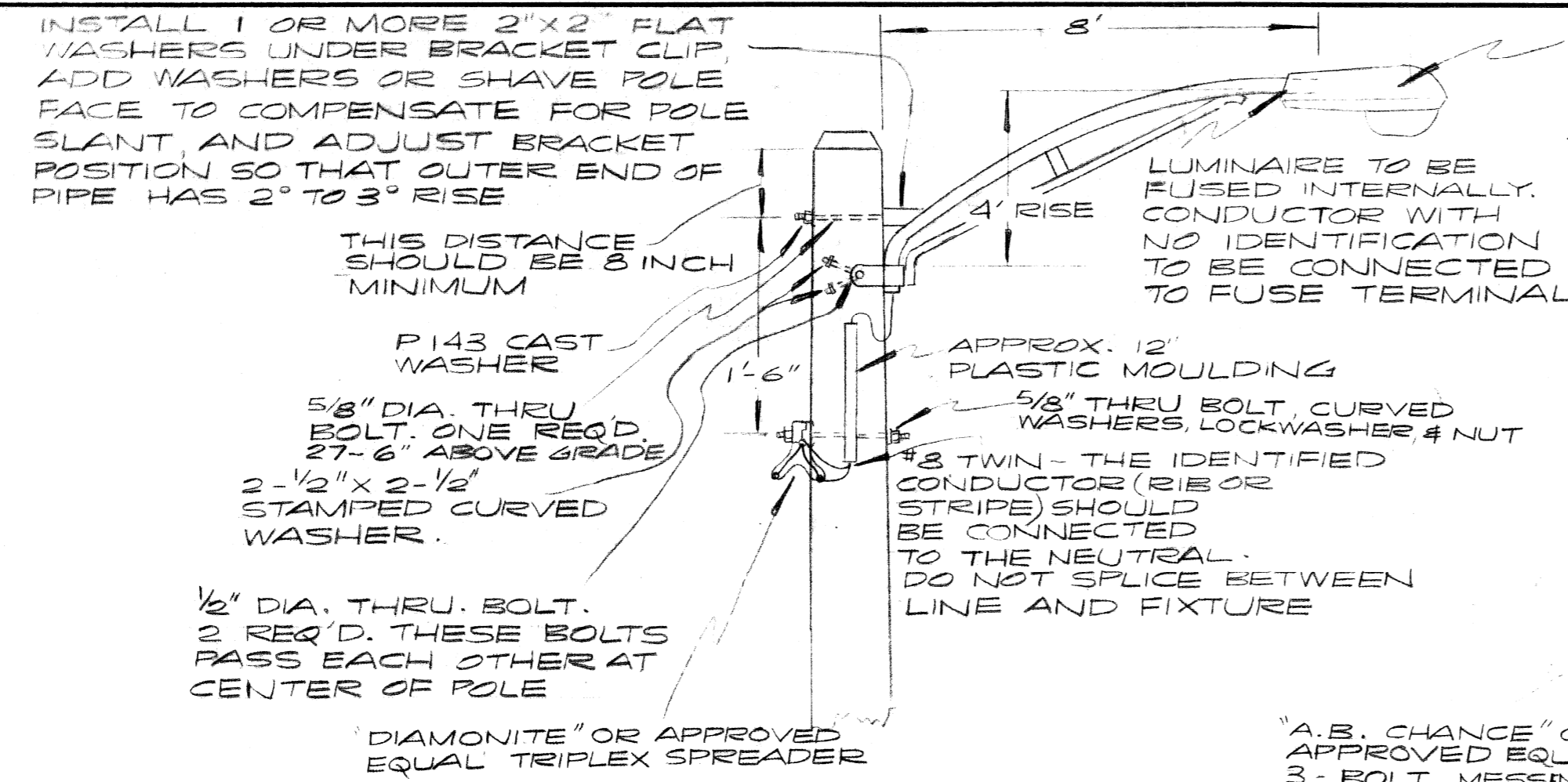
PUBLIC LIGHTING
COMMISSION
CITY OF DETROIT

FILE NO.
49-0545

SHEET NO.
2 OF 5

DATE
3-30-77

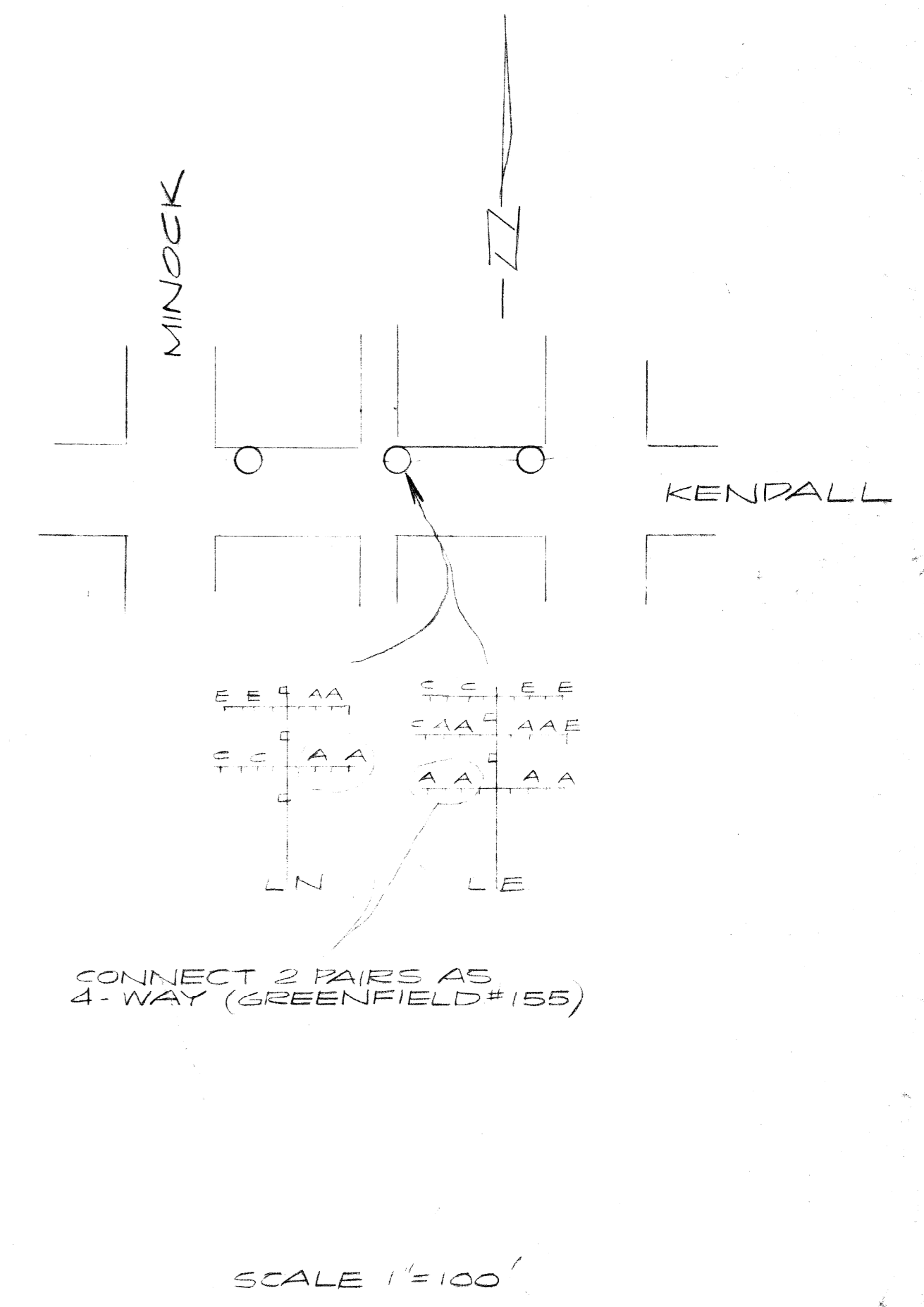
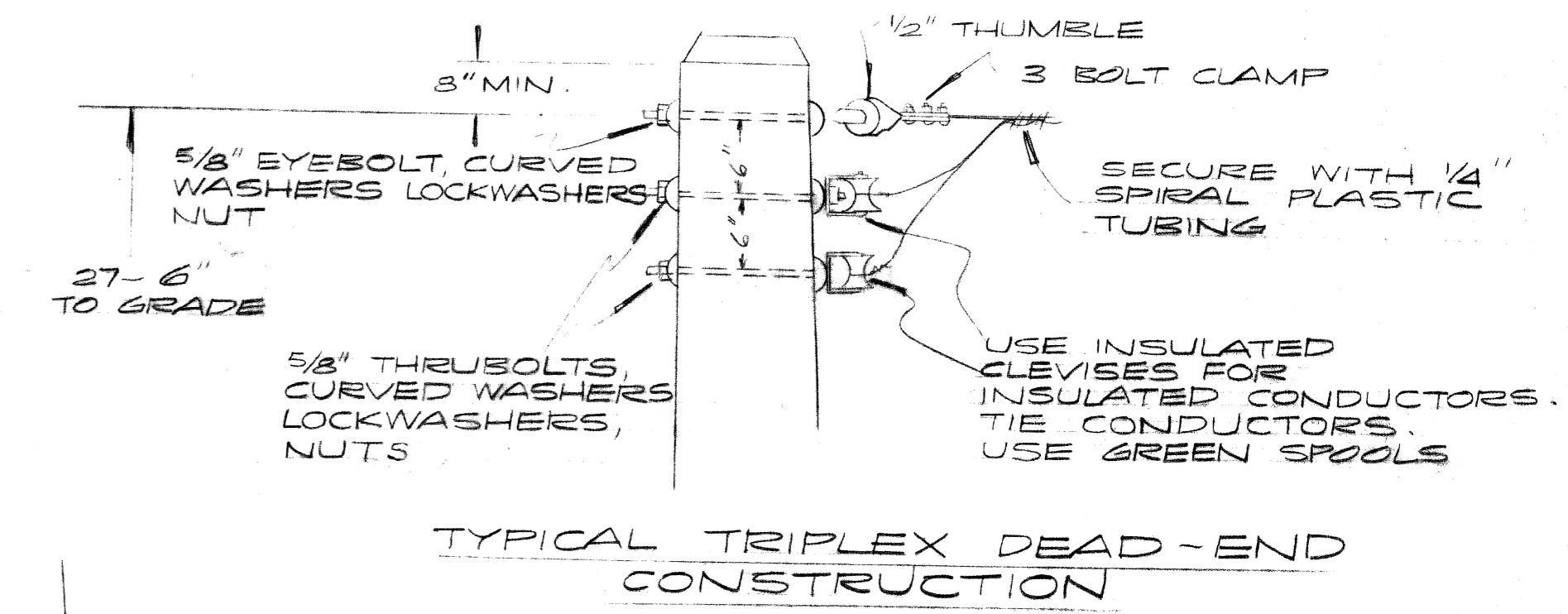
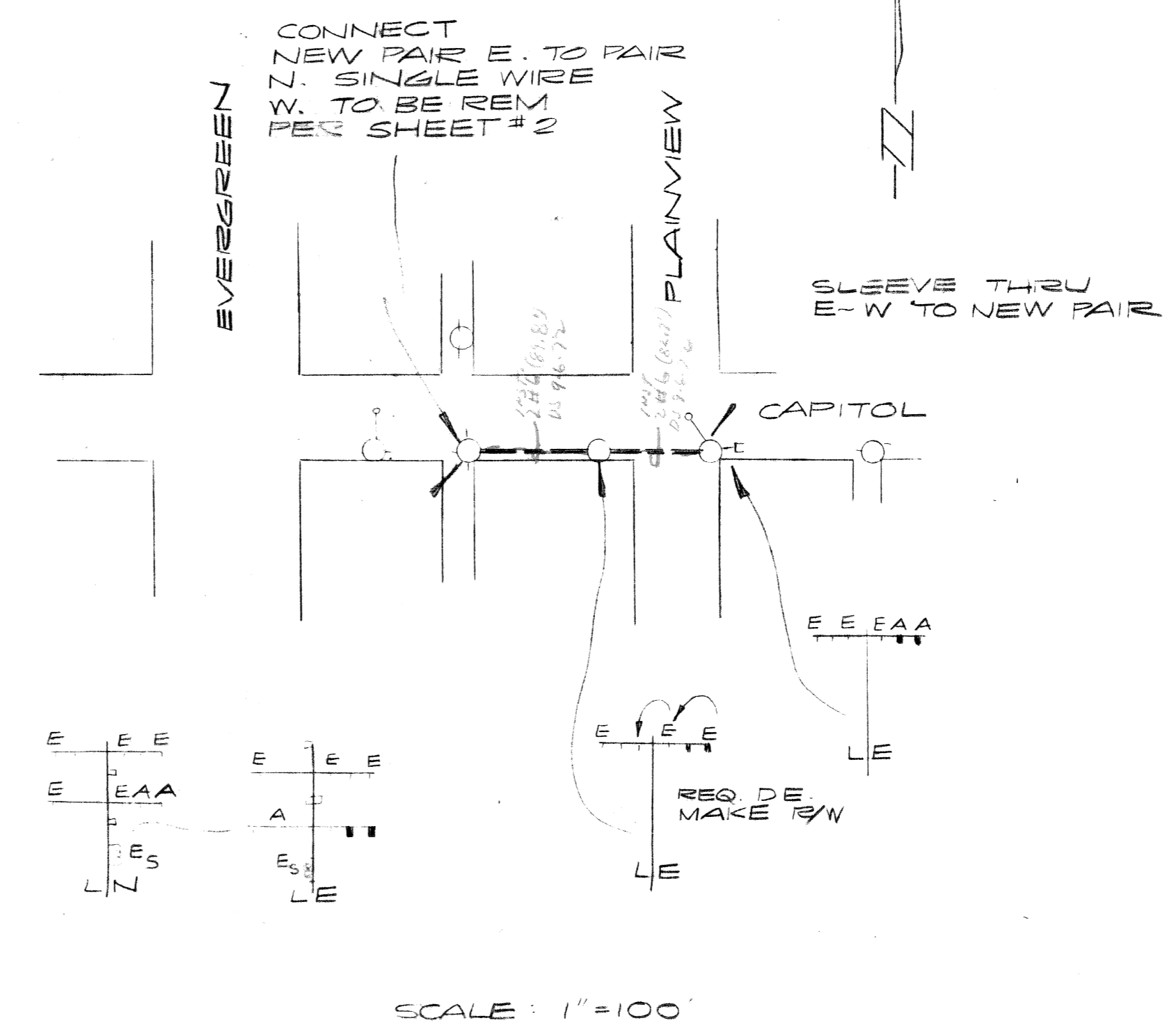
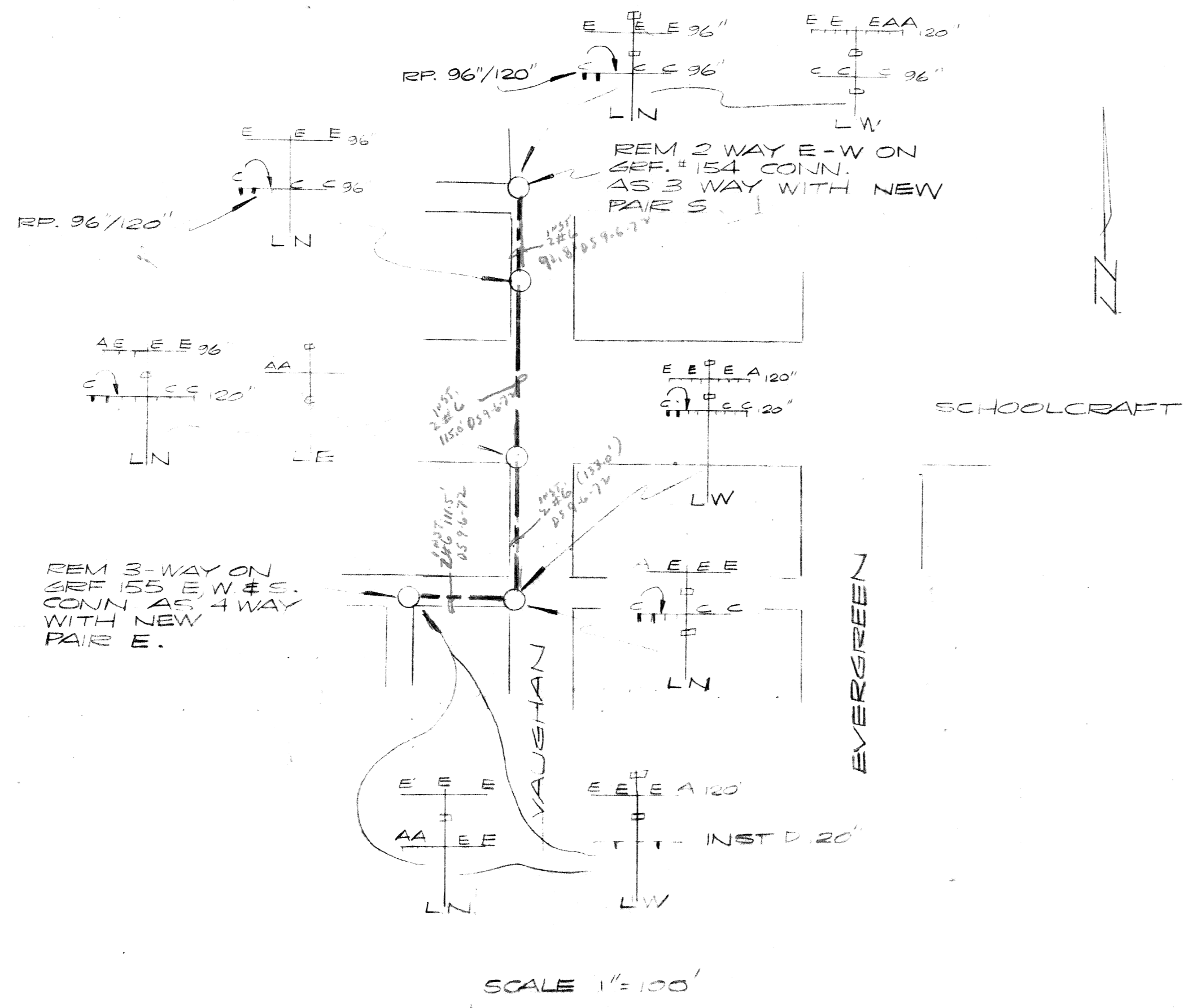
DE. Co. MEMO # L 8046
M.B.T. MEMO # L 8047



NOTE: ALWAYS TAP STREET SIDE CONDUCTOR AND NEUTRAL. A OR B CIRCUITS TO ALTERNATE ON STREET SIDE POSITION ON ADJACENT LIGHT POLES

DETAIL OF TYPICAL LIGHT POLE WITH TRIPLEX CIRCUIT
NO SCALE

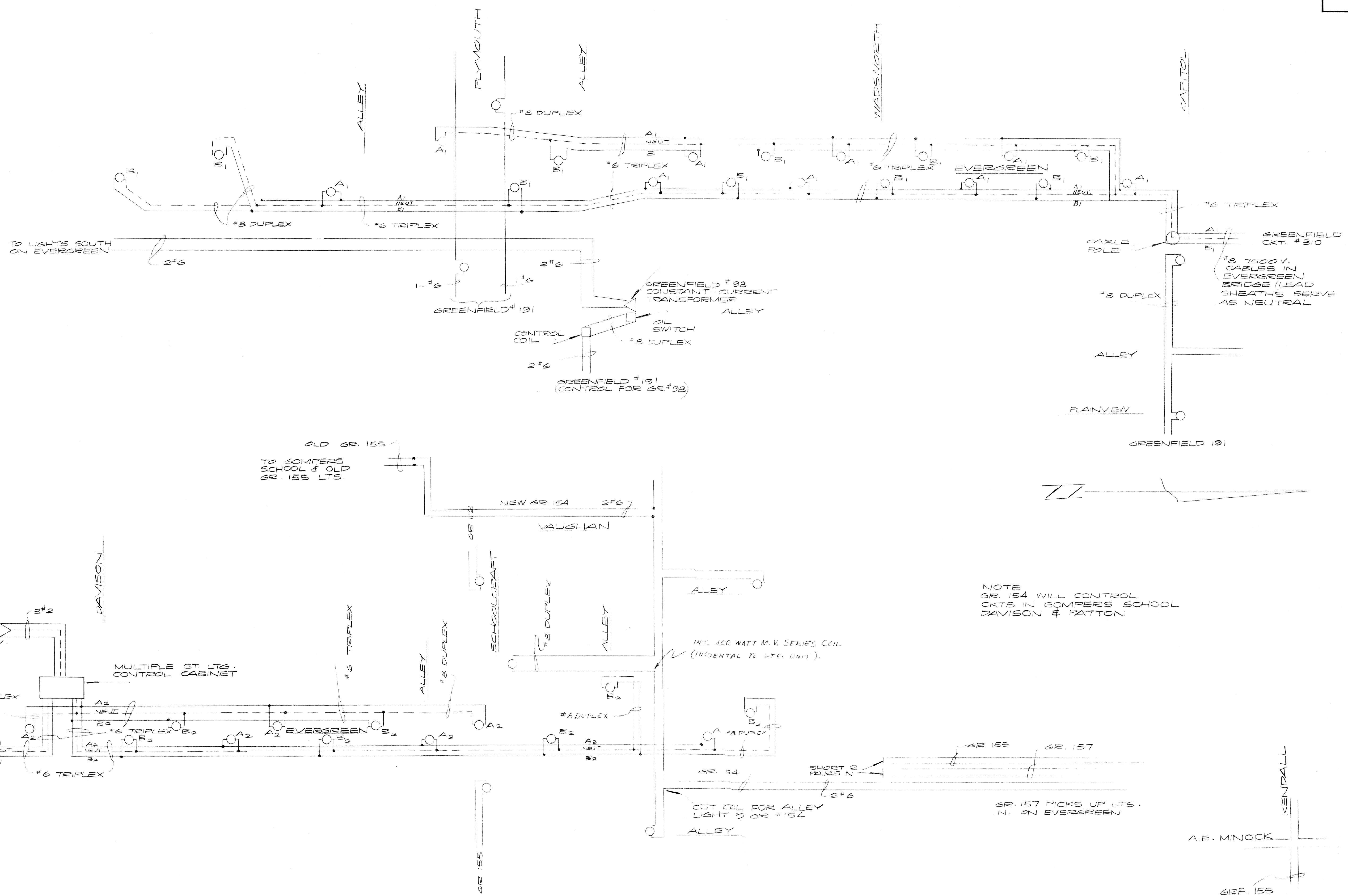
BILL OF MATERIALS			
ITEM	QUANTITIES	ITEM CODE NO.	MEM. NO.
REMOVE 1 NO. 6 O.H. LINE	2,530 LIN. FT.	5308	
REMOVE 2 NO. 6 O.H. LINE	2,080 LIN. FT.	5309	
REMOVE NO. 8 TWIN SECONDARY	670 LIN. FT.	5313	
REMOVE WOOD POLE	46 EACH	5314	
REMOVE O.H. ST. LGS. UNIT	31 EACH	5315	
35 FT. CLASS 4 WOOD POLE	28 EACH	5471	
40 FT. CLASS 2 WOOD POLE	7 EACH	5473	
45 FT. CLASS 2 WOOD POLE	2 EACH	5477	
1 NO. 6 O.H. LINE	470 LIN. FT.	5438	
2 NO. 6 O.H. LINE	990 LIN. FT.	5439	
NO. 8 TWIN SECONDARY	1,190 LIN. FT.	5444	
NO. 6 TRIPLEX O.H. LINE	5,360 LIN. FT.		
3 NO. 2 O.H. LINE	250 LIN. FT.		
INST. SALVAGED 400W MV. O.H. ST. LGS. UNIT	2 EACH		
400W. MV. - O.H. ST. LGS. UNIT & SER. COIL	2 EACH	5667	
400W. MV. - O.H. ST. LGS. UNIT & CLAMP ON BRKT	1 EACH		
400W. MV. - O.H. MULTIPLE ST. LGS. UNIT	31 EACH		
MULT. ST. LGS. CONTROL CABINET	1 LUMP SUM		



DATE	DESCRIPTION	DRW. BY
3/28/70	MISC. REVISIONS	

RELIGHTING OF WIDENED EVERGREEN S. OF PLYMOUTH TO N. OF SCHOOLCRAFT

DRAWN BY RMC	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 49-0545
CHECKED BY CH		SHEET NO. 4 OF 5
APPROVED BY CK		DATE 3-30-71



FINAL WIRING DIAGRAM - STREET LIGHTING
NOT TO SCALE

DATE	DESCRIPTION	CHKD. BY
5/28/72	MISS REVISIONS	SY

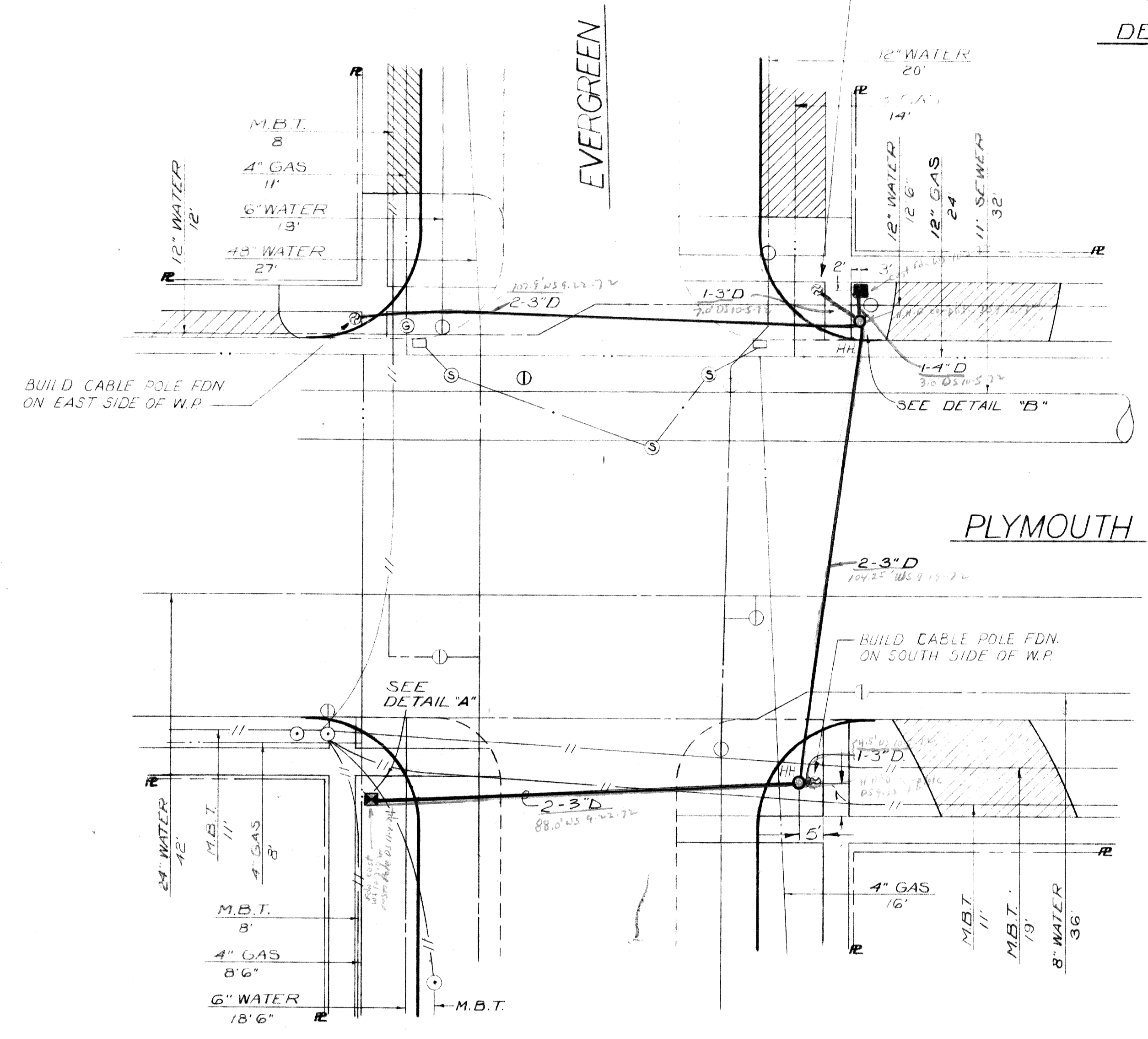
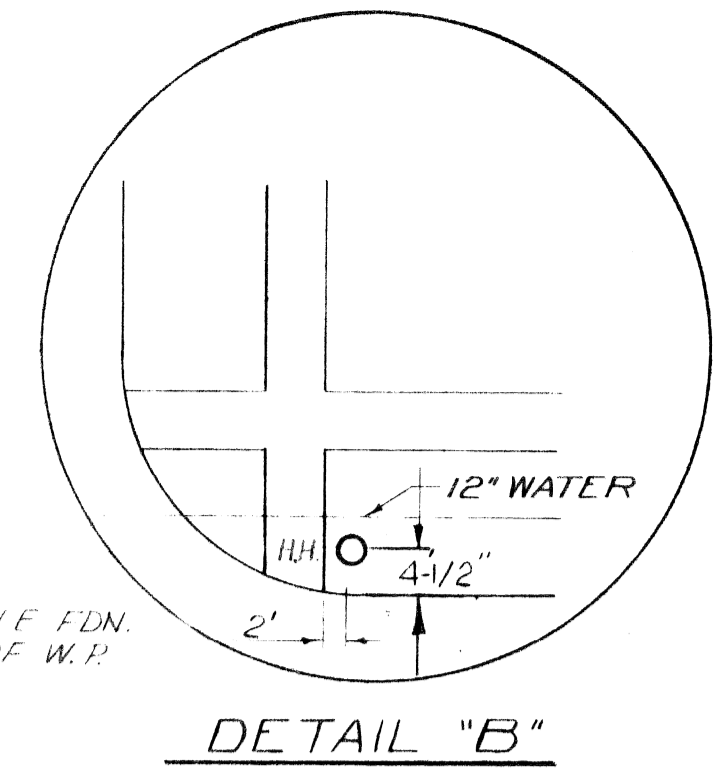
RELIGHTING OF WIDENED EVERGREEN S. FLYMOUTH
TO N. OF SCHOOLCRAFT

DRAWN BY RMC
CHECKED BY GJ CH
APPROVED BY JK

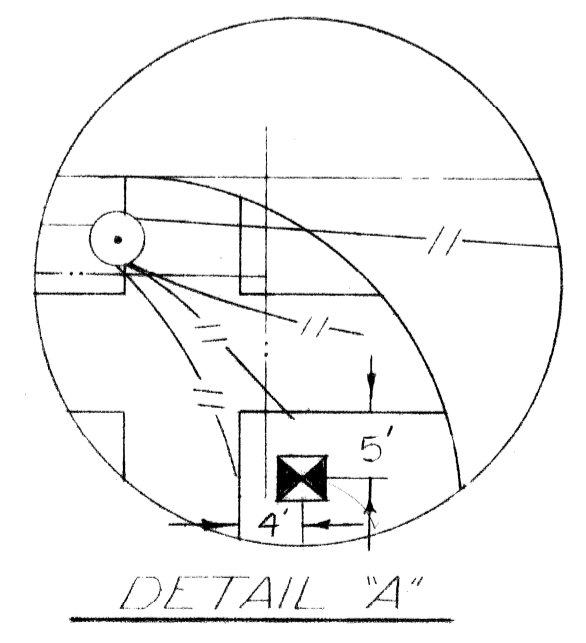
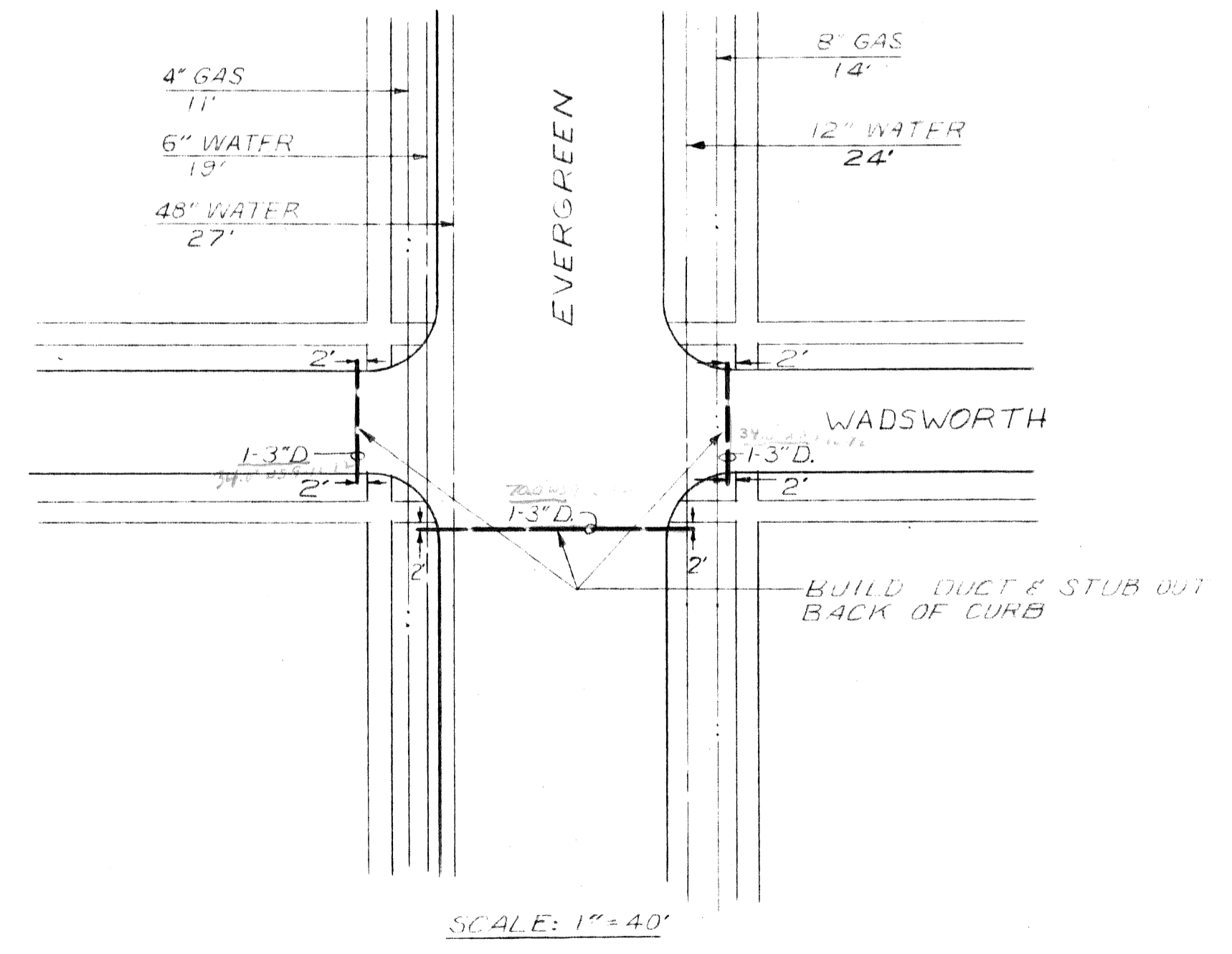
**PUBLIC LIGHTING
COMMISSION**
CITY OF DETROIT

FILE NO. 49-0545
SHEET NO. 5 OF 5
DATE 3-30-71

- LEGEND**
- BUILD STRAIN POLE FOUNDATION (DRAWING "52-2096, SHEET 2")
 - BUILD PEDESTAL POST FOUNDATION (DRAWING "52-2096, SHEET 2")
 - BUILD SIDEWALK TYPE "D" HANDHOLE
 - BUILD 1-3" CONCRETE ENCASED TYPE "I" CONDUIT
 - BUILD CONCRETE ENCASED TYPE "I" CONDUIT OF SIZE & NUMBER INDICATED
 - ⊙ EXISTING WOODPOLE TO REMAIN
- UTILITIES**
- BELL TELEPHONE CONDUIT
 - GAS MAIN
 - WATER MAIN
 - P.L.C. CONDUIT
 - SEWER
 - ⊕ WATER MANHOLE
 - ⊗ FIRE HYDRANT
 - CATCH BASIN
 - ⊙ M.B.T. MANHOLE
 - ⊙ GAS MANHOLE
 - ⊙ SEWER MANHOLE
- CURBS**
- PROPOSED NEW CURB
 - EXISTING CURB TO REMAIN
 - EXISTING CURB TO BE REMOVED
 - ////// EXISTING DRIVE WAY TO REMAIN



BILL OF MATERIALS	
DESCRIPTION	AMOUNT
SIDEWALK TYPE "D" HANDHOLE	2 EACH
1-3" CONCRETE ENCASED CONDUIT	165 LIN. FT.
2-3" CONCRETE ENCASED CONDUIT	325 LIN. FT.
1-4" CONCRETE ENCASED CONDUIT	10 LIN. FT.



CAUTION: DIG CAREFULLY UTILITIES IN AREA

SCALE 1"=20'

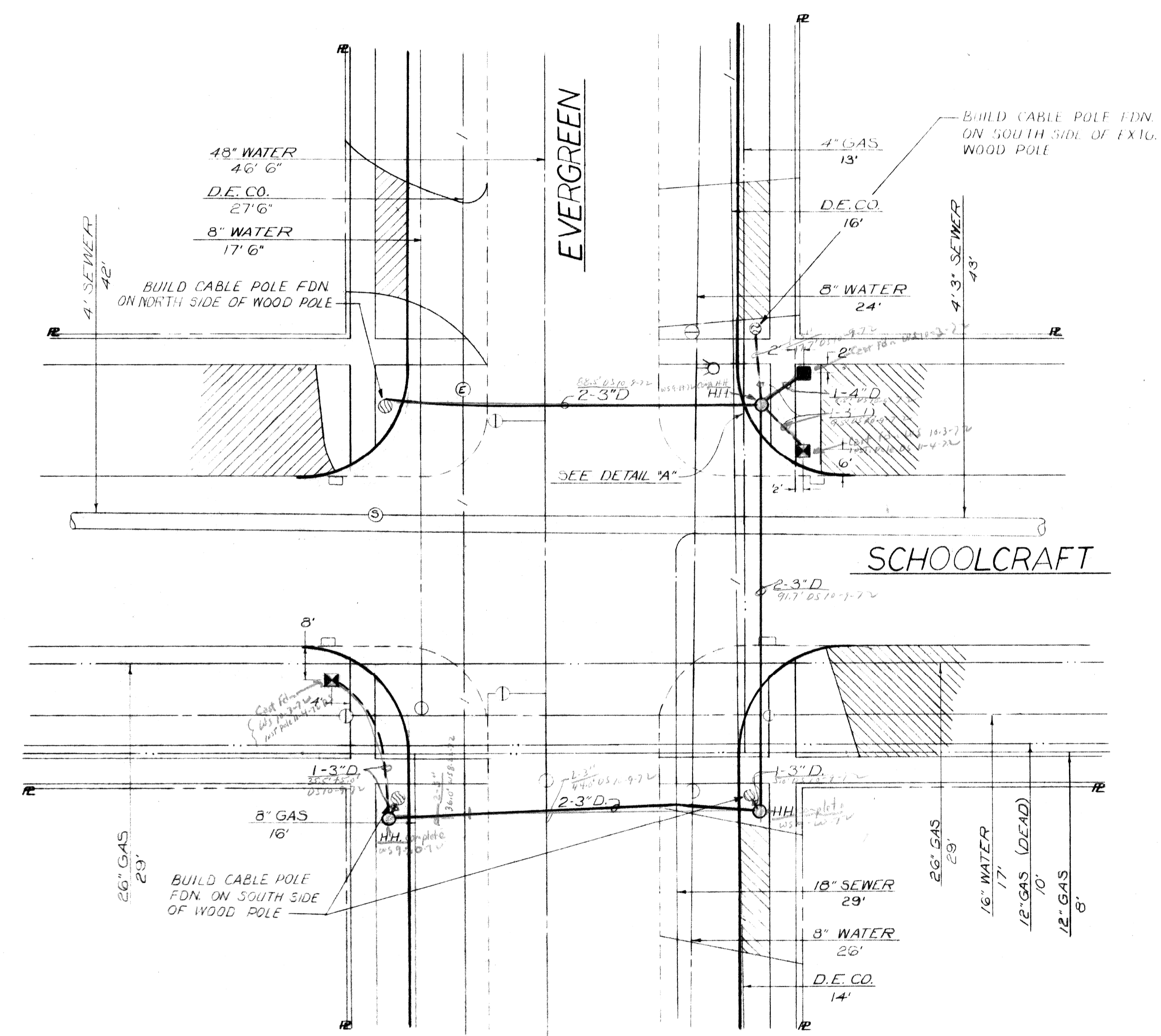
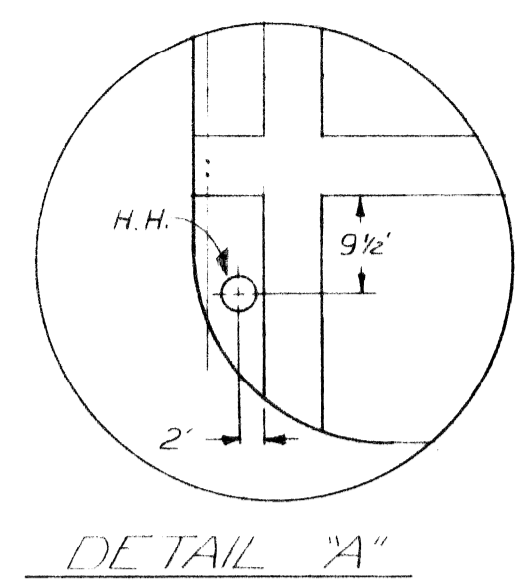
EVERGREEN WIDENING
PLYMOUTH TO SCHOOLCRAFT
— UNDERGROUND CONSTRUCTION —
— AT PLYMOUTH & AT WADSWORTH —

DATE	DESCRIPTION	CHKD. BY

DRAWN BY W.O.P.	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 52-2087
CHECKED BY ANS		SHEET NO. 1 OF 7
APPROVED BY <i>G.F.</i>		DATE 11-1-71

- LEGEND**
- ⊠ BUILD STRAIN POLE FOUNDATION (DRAWING #52-2036, SHEET 2)
 - BUILD PFDSTAL POST FOUNDATION (DRAWING #52-2036, SHEET 2)
 - BUILD SIDEWALK TYPE "D" HANDHOLE
 - BUILD 1-3" CONCRETE ENCASED TYPE I CONDUIT
 - BUILD CONCRETE ENCASED TYPE I CONDUIT OF SIZE & NUMBER INDICATED
 - ⊙ EXISTING WOOD POLE TO REMAIN

- UTILITIES**
- EDISON CONDUIT
 - GAS MAIN
 - WATER MAIN
 - SEWER
 - ⊕ WATER MANHOLE
 - CATCH BASIN
 - FIRE HYDRANT
 - ⊙ EDISON MANHOLE
- CURBS**
- PROPOSED NEW CURBS
 - EXISTING CURB TO REMAIN
 - - - EXISTING CURB TO BE REMOVED
 - ||||| EXISTING DRIVEWAY TO REMAIN



BILL OF MATERIALS	
DESCRIPTION	AMOUNT
SIDEWALK TYPE "D" HANDHOLE	3 EACH
1-3" CONCRETE ENCASED TYPE I CONDUIT	80 LIN. FT.
2-3" CONCRETE ENCASED TYPE I CONDUIT	315 LIN. FT.
1-4" CONCRETE ENCASED TYPE I CONDUIT	12 LIN. FT.

SCALE 1"=20'

EVERGREEN WIDENING
PLYMOUTH TO SCHOOLCRAFT
— UNDERGROUND CONSTRUCTION —
— AT SCHOOLCRAFT —

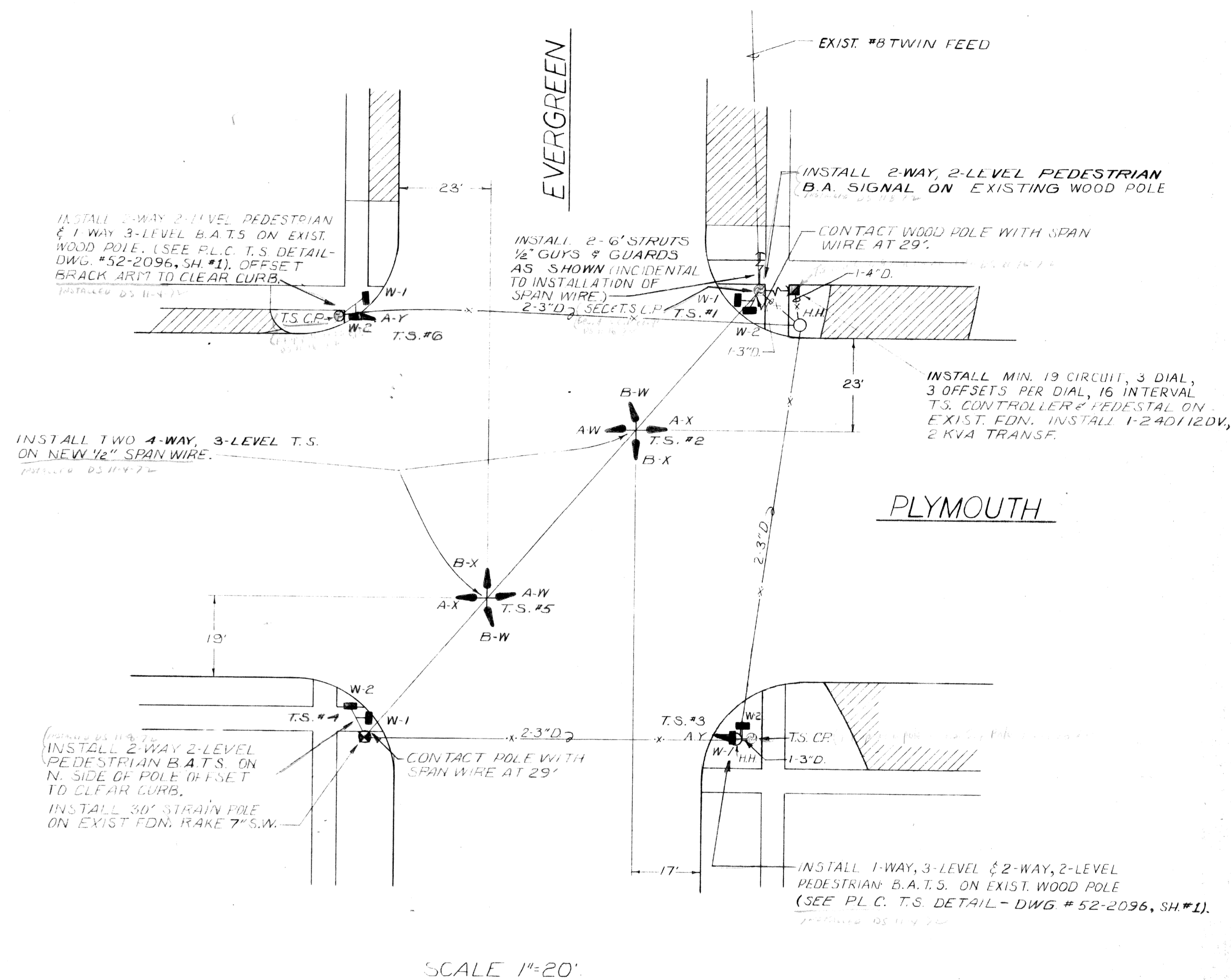
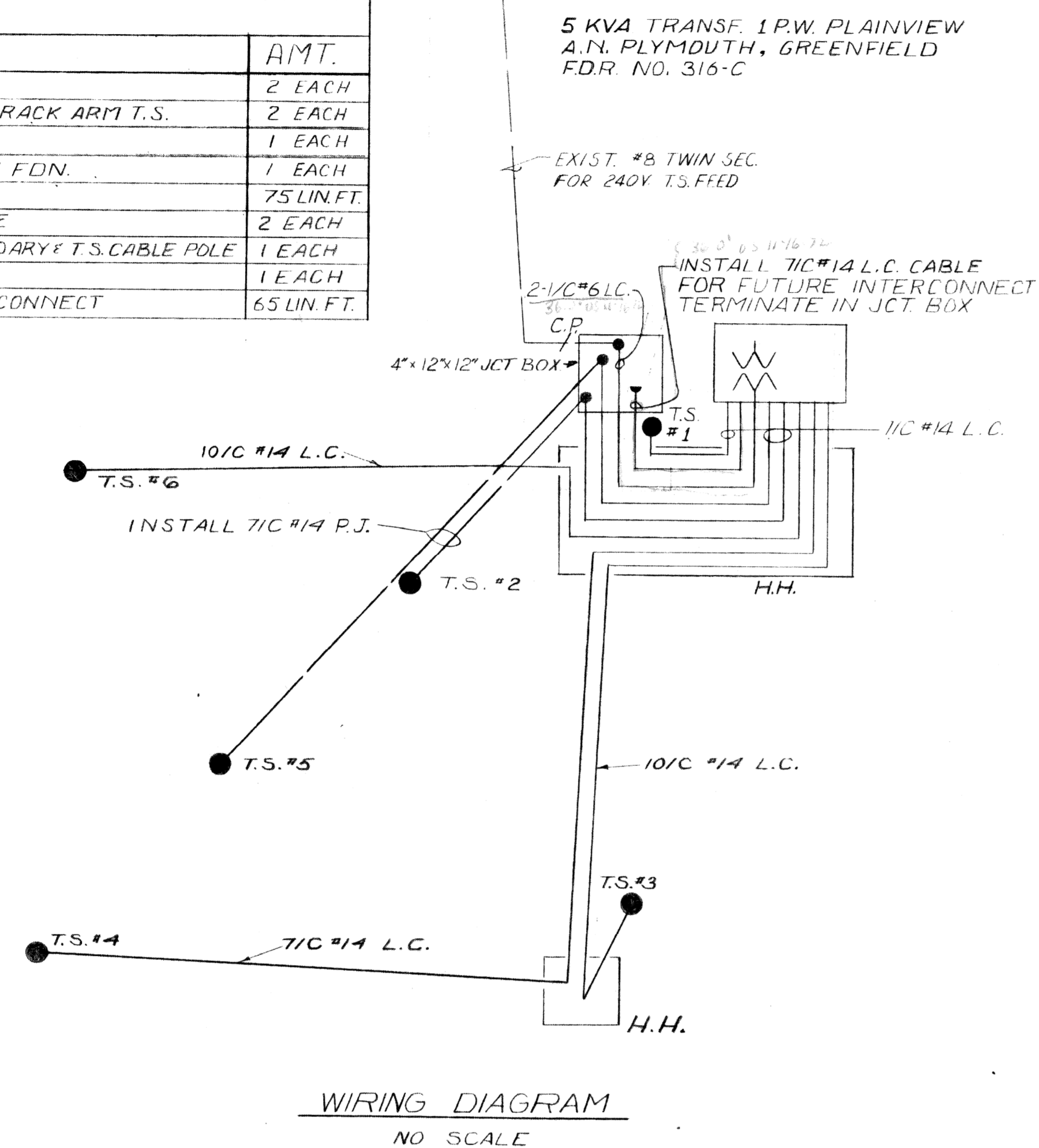
DATE	DESCRIPTION	CHKD. BY

DRAWN BY W.O.P.	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 52-2087
CHECKED BY [Signature]		SHEET NO. 2 OF 7
APPROVED BY [Signature]		DATE 11-1-71

LEGEND

- NEW T.S. TO BE INSTALLED
- NEW PEDESTRIAN SIGNAL TO BE INSTALLED
- ⊠ NEW CONTR. TO BE INSTALLED
- ⊙ NEW STRAIN POLE TO BE INSTALLED
- ⊕ EXISTING WOOD POLE TO REMAIN
- NEW U.G. CABLE TO BE INSTALLED
- NEW O.H. CABLE TO BE INSTALLED

BILL OF MATERIALS	
DESCRIPTION	AMT.
2-WAY, PEDESTRIAN BRACK ARM T.S.	2 EACH
2-WAY, PEDESTRIAN & 1-WAY 3-LEVEL BRACK ARM T.S.	2 EACH
TWO 4-WAY T.S. ON NEW SPAN WIRE	1 EACH
T.S. CONTROLLER CAB. & PED. ON NEW FDN.	1 EACH
600V 2-1/2" #6 L.C. CABLE	75 LIN. FT.
FIT UP WOOD POLE AS T.S. CABLE POLE	2 EACH
FIT UP WOOD POLE AS A COMB. SECONDARY & T.S. CABLE POLE	1 EACH
30" STEEL POLE - NEW FDN.	1 EACH
600V 1-7/8" #14 L.C. CABLE FOR INTERCONNECT	65 LIN. FT.



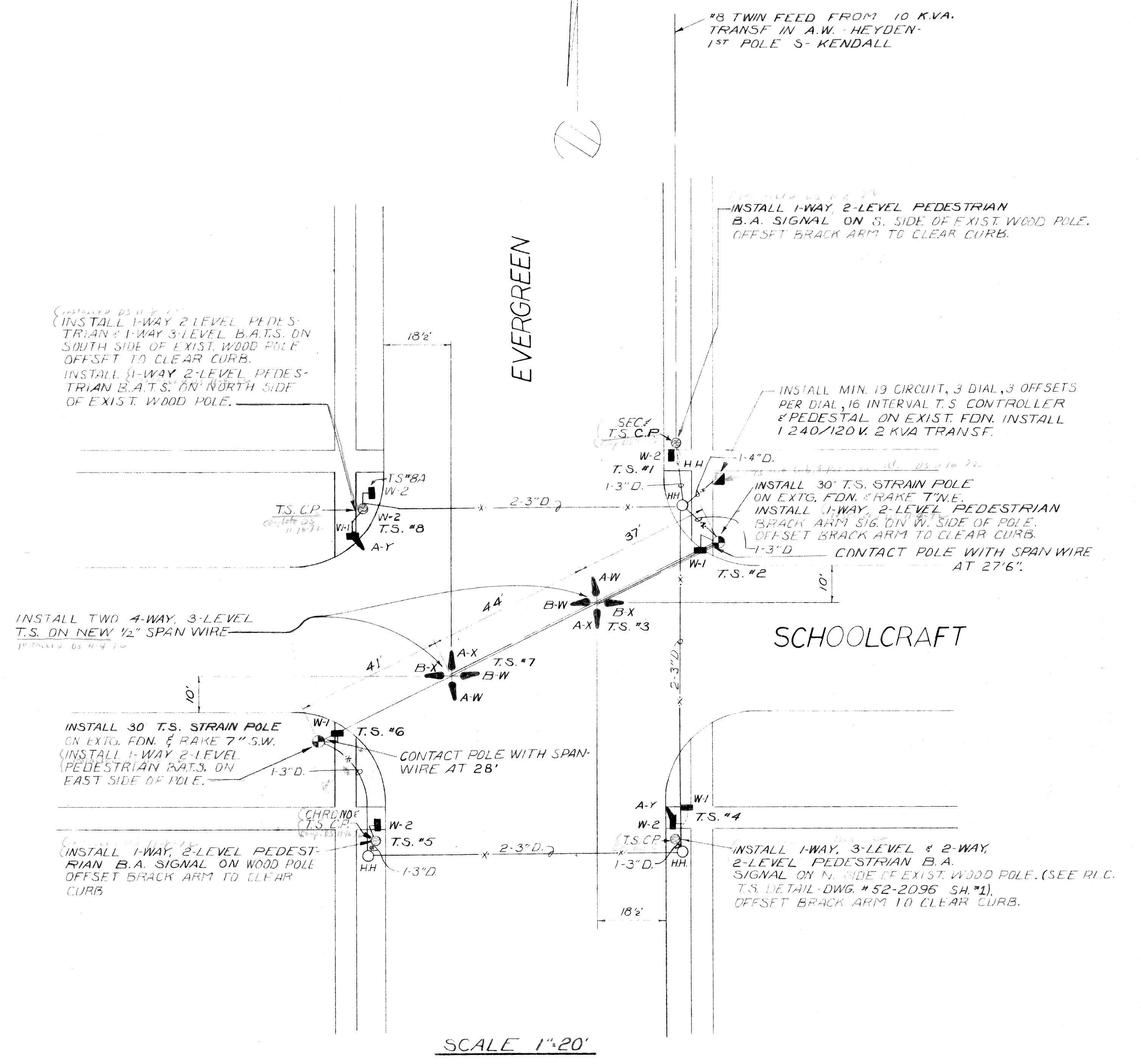
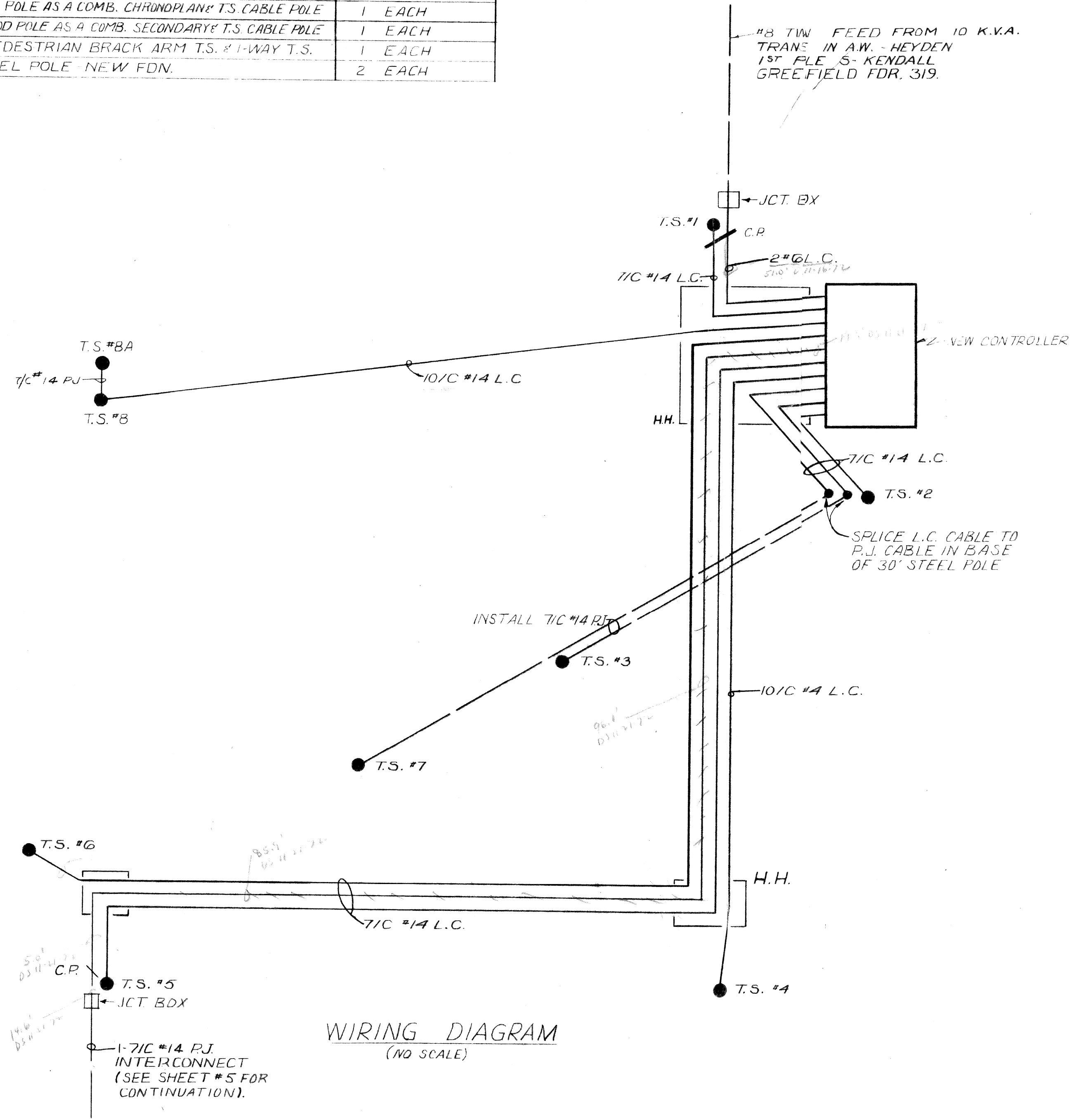
DATE	DESCRIPTION	CHKD. BY

EVERGREEN WIDENING
PLYMOUTH TO SCHOOLCRAFT
— FINAL SIGNAL INSTALLATION AT PLYMOUTH —

DRAWN BY W.O.P.	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 52-2087
CHECKED BY [Signature]		SHEET NO. 3 OF 7
APPROVED BY [Signature]		DATE 11-1-71

- LEGEND**
- NEW T.S. TO BE INSTALLED
 - NEW PEDESTRIAN SIGNAL TO BE INSTALLED
 - NEW CONTR TO BE INSTALLED
 - NEW STRAIN POLE TO BE INSTALLED
 - NEW PEDESTAL TO BE INSTALLED
 - EXISTING WOOD POLE TO REMAIN
 - NEW U.G. CABLE TO BE INSTALLED
 - NEW OH CABLE TO BE INSTALLED

BILL OF MATERIALS	
DESCRIPTION	AMOUNT
T.S. CONTROLLER, CAB. & PED. - NEW FDN.	1 EACH
1-WAY PEDESTRIAN BRACK ARM T.S.	5 EACH
2-WAY PEDESTRIAN BRACK ARM T.S. & 1-WAY T.S.	1 EACH
TWO-4-WAY T.S. ON NEW SPN. WIRE	1 EACH
600V 2-1/2" #6 L.C. CABLE	50 LFT.
FIT UP WOOD POLE AS A T.S. CABLE POLE	2 EACH
FIT UP WOOD POLE AS A COMB. CHRONOPANE T.S. CABLE POLE	1 EACH
FIT UP WOOD POLE AS A COMB. SECONDARY T.S. CABLE POLE	1 EACH
1-WAY PEDESTRIAN BRACK ARM T.S. & 1-WAY T.S.	1 EACH
30' STEEL POLE NEW FDN.	2 EACH



DATE	DESCRIPTION	CHKD. BY

**EVERGREEN WIDENING
PLYMOUTH TO SCHOOLCRAFT
— FINAL SIGNAL INSTALLATION AT SCHOOLCRAFT —**

FILE NO. 52-2087	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	DATE 11-1-71
SHEET NO. 4 of 7		
DRAWN BY W.O.P.	APPROVED BY <i>[Signature]</i>	
CHECKED BY J.W.S.		

LEGEND

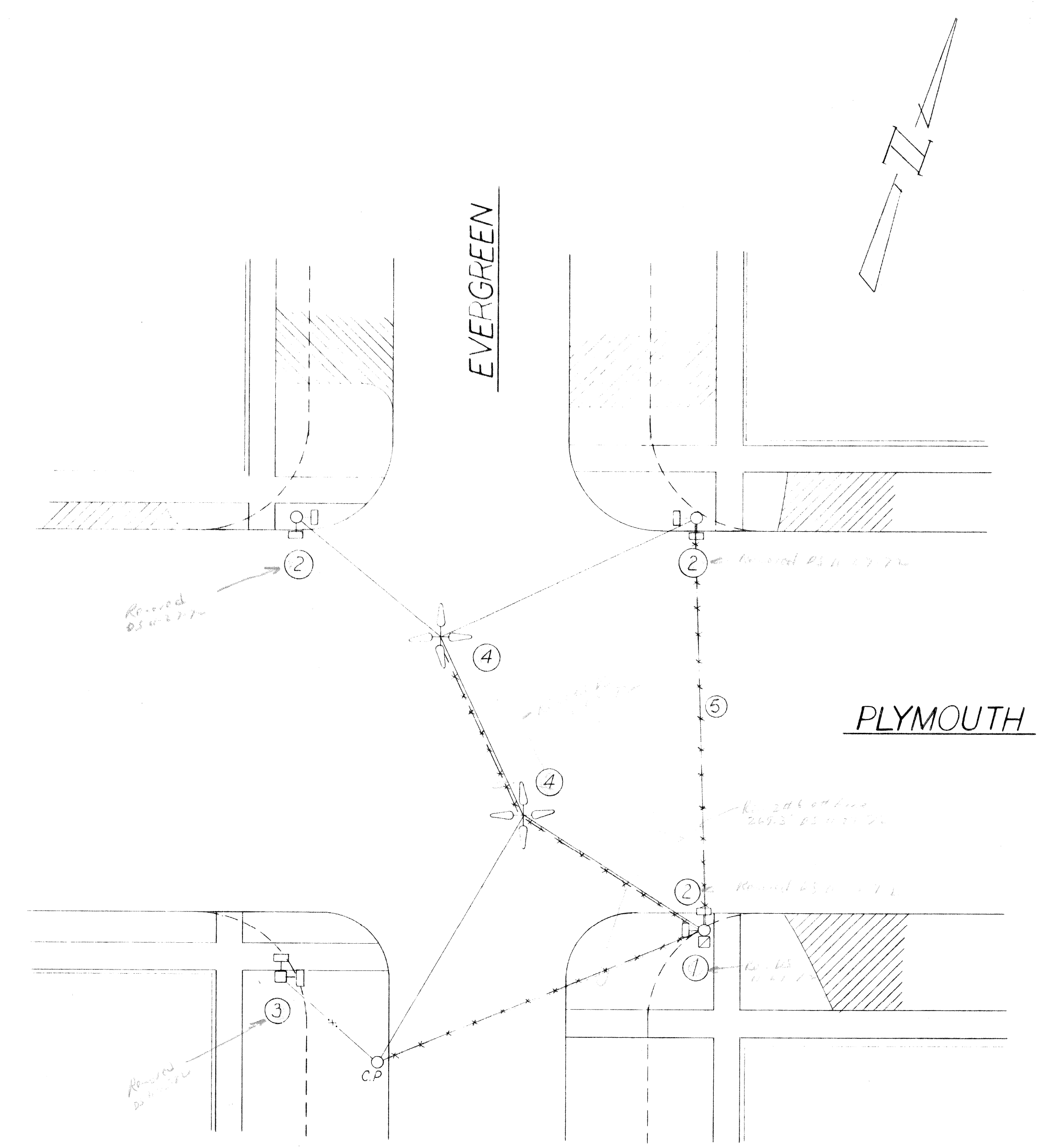
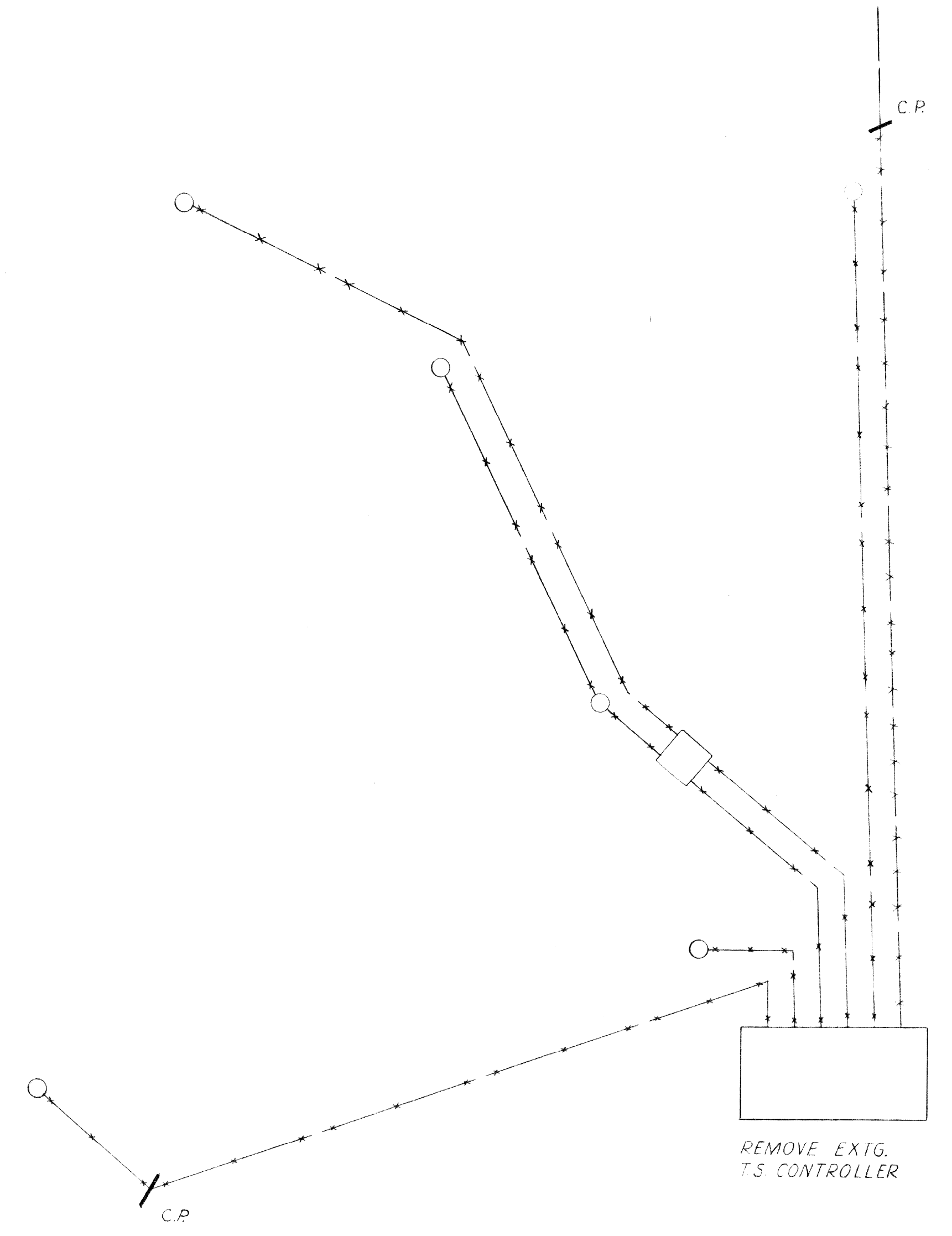
- EXISTING TRAFFIC SIGNALS TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL TO BE REMOVED
- ⊠ EXISTING CONTROLLER TO BE REMOVED
- EXISTING WOOD POLE TO BE REMOVED
- EXISTING O.H. WIRE TO BE REMOVED
- EXISTING PEDESTAL TO BE REMOVED

CURBS

- EXISTING CURB
- - - PROPOSED CURB
- ////// EXISTING DRIVE WAY

BILL OF MATERIALS

NO.	DESCRIPTION	AMOUNT
①	REMOVE T.S. CONTROLLER PLAB	1 EACH
②	REMOVE 2-WAY PEDESTRIAN B.A.T.S.	3 EACH
③	REMOVE 2-WAY PEDESTRIAN SIG. PEDESTAL	1 EACH
④	REMOVE 2 SPAN WIRE T.S. (SPAN WIRE)	1 EACH
⑤	REMOVE 2-1/2" #6 O.H. LINE	100 FT.



DATE	DESCRIPTION	CHKD. BY

EVERGREEN WIDENING
PLYMOUTH TO SCHOOLCRAFT
— TRAFFIC SIGNAL REMOVAL AT PLYMOUTH —

DRAWN BY
W.O.P.
CHECKED BY
[Signature]
APPROVED BY
[Signature]

**PUBLIC LIGHTING
COMMISSION**
CITY OF DETROIT

29 OF 43
FILE NO.
52-2087
SHEET NO.
6 OF 7
DATE
11-1-71

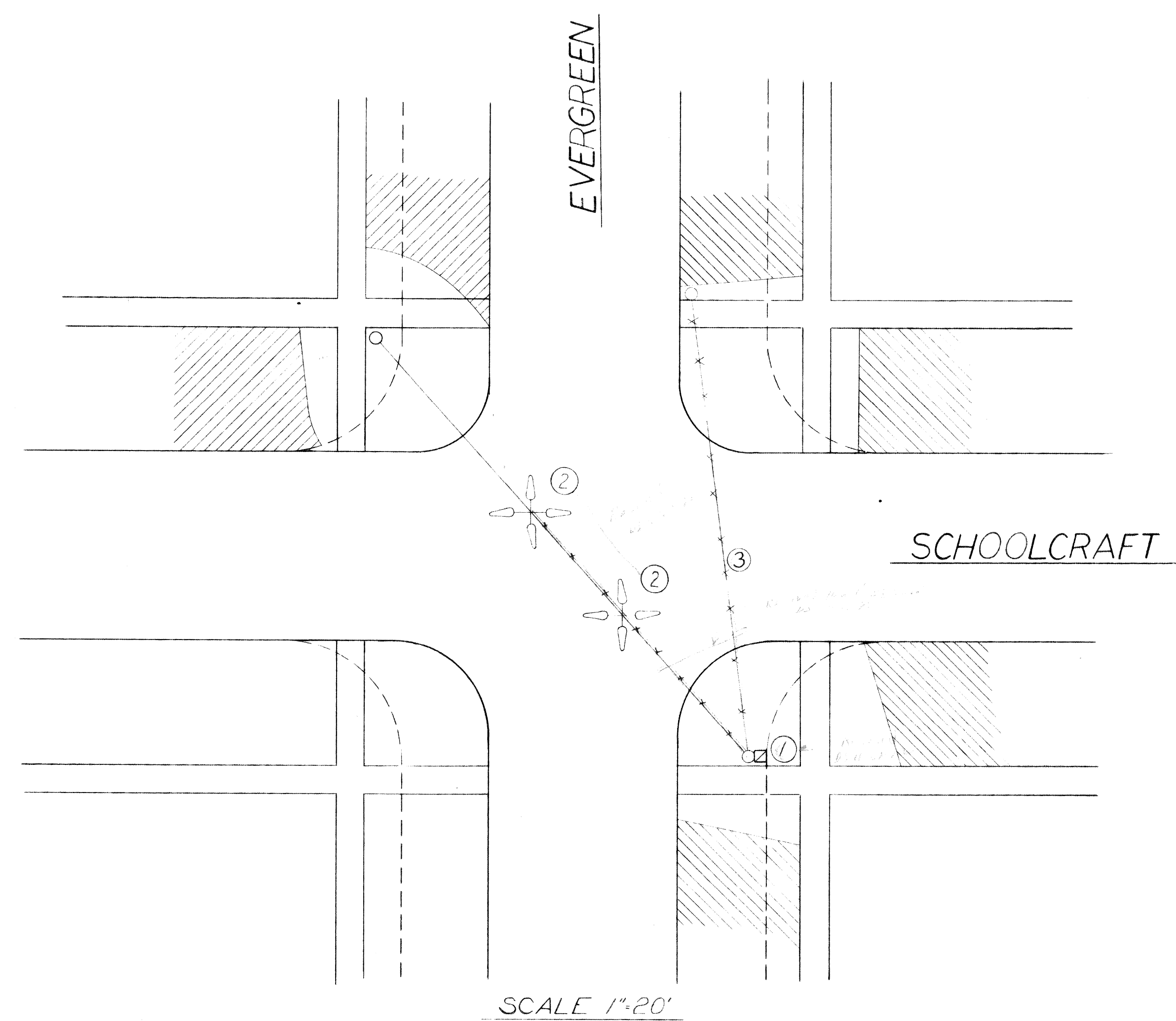
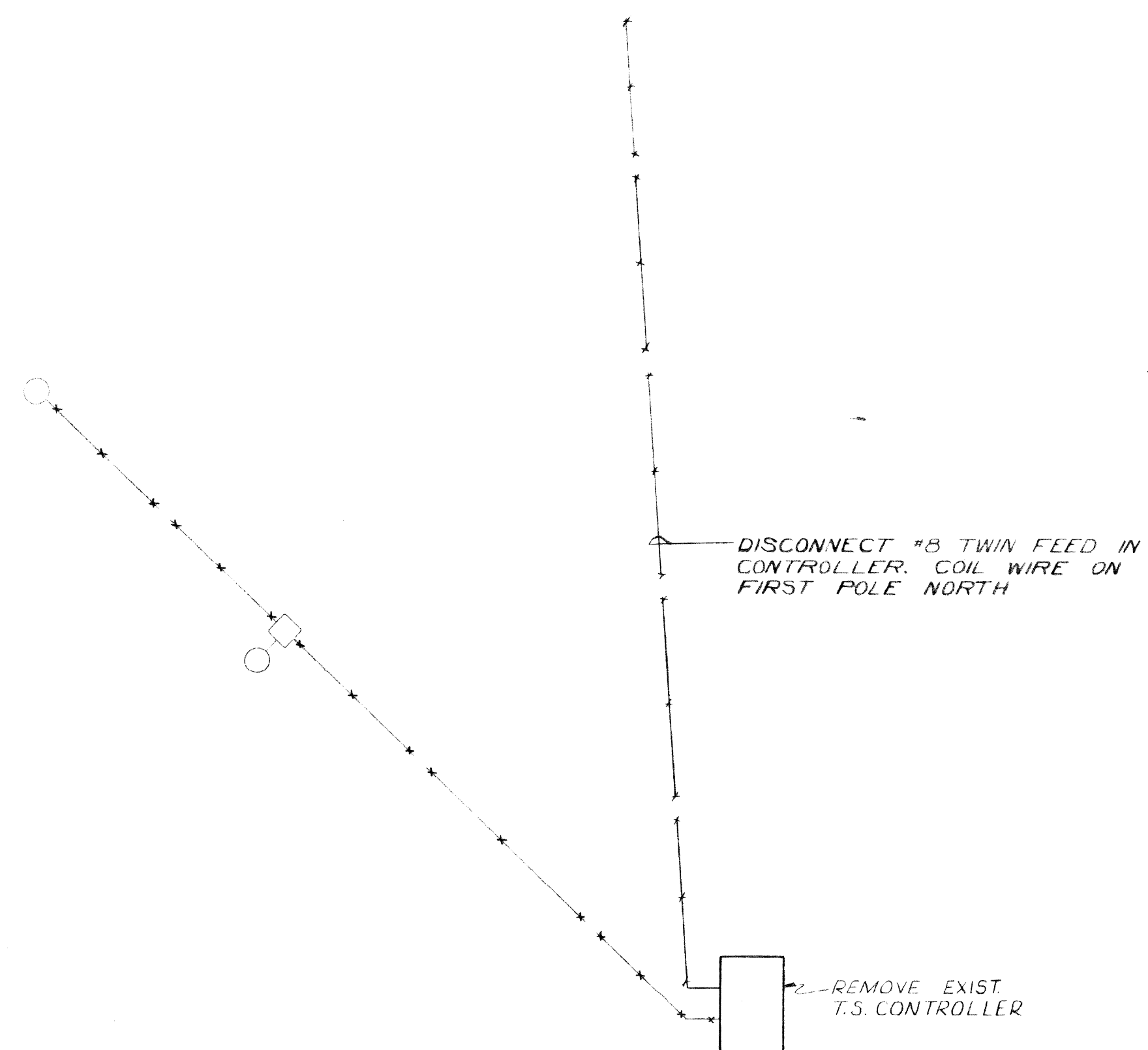
LEGEND

- ◻ EXISTING TRAFFIC SIGNAL TO BE REMOVED
- ◻ EXISTING CONTROLLER TO BE REMOVED
- EXISTING WOOD POLE TO BE REMOVED
- EXISTING D.H. WIRE TO REMAIN
- EXISTING D.H. WIRE TO BE REMOVED

CURBS

- EXISTING CURB
- - - PROPOSED CURB
- ////// EXISTING DRIVEWAYS

BILL OF MATERIALS		
NO.	DESCRIPTION	AMOUNT
1	REMOVE T.S. CONTROLLER	1 EACH
2	REMOVE SPAN WIRE T.S. CONTROLLER	1 EACH
3	REMOVE #8 TWIN FEED	130 FT



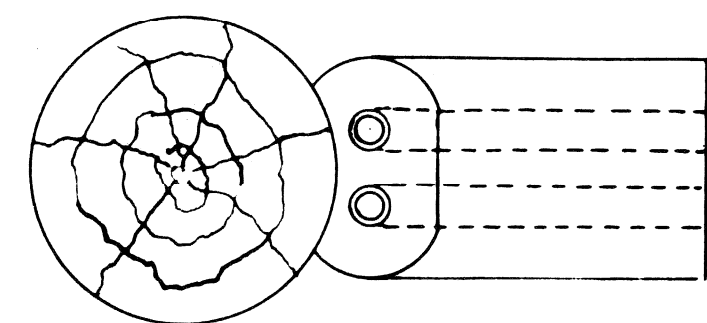
DATE	DESCRIPTION	CHKD. BY

EVERGREEN WIDENING
 PLYMOUTH TO SCHOOLCRAFT
 — TRAFFIC SIGNAL REMOVAL AT SCHOOLCRAFT —

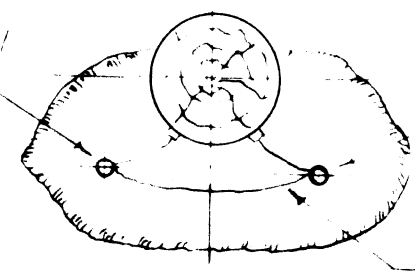
DRAWN BY
W.O.P.
 CHECKED BY
[Signature]
 APPROVED BY
[Signature]

**PUBLIC LIGHTING
 COMMISSION**
 CITY OF DETROIT

30 OF 43
 FILE NO. 52-2087
 SHEET NO. 7 OF 7
 DATE 11-1-71



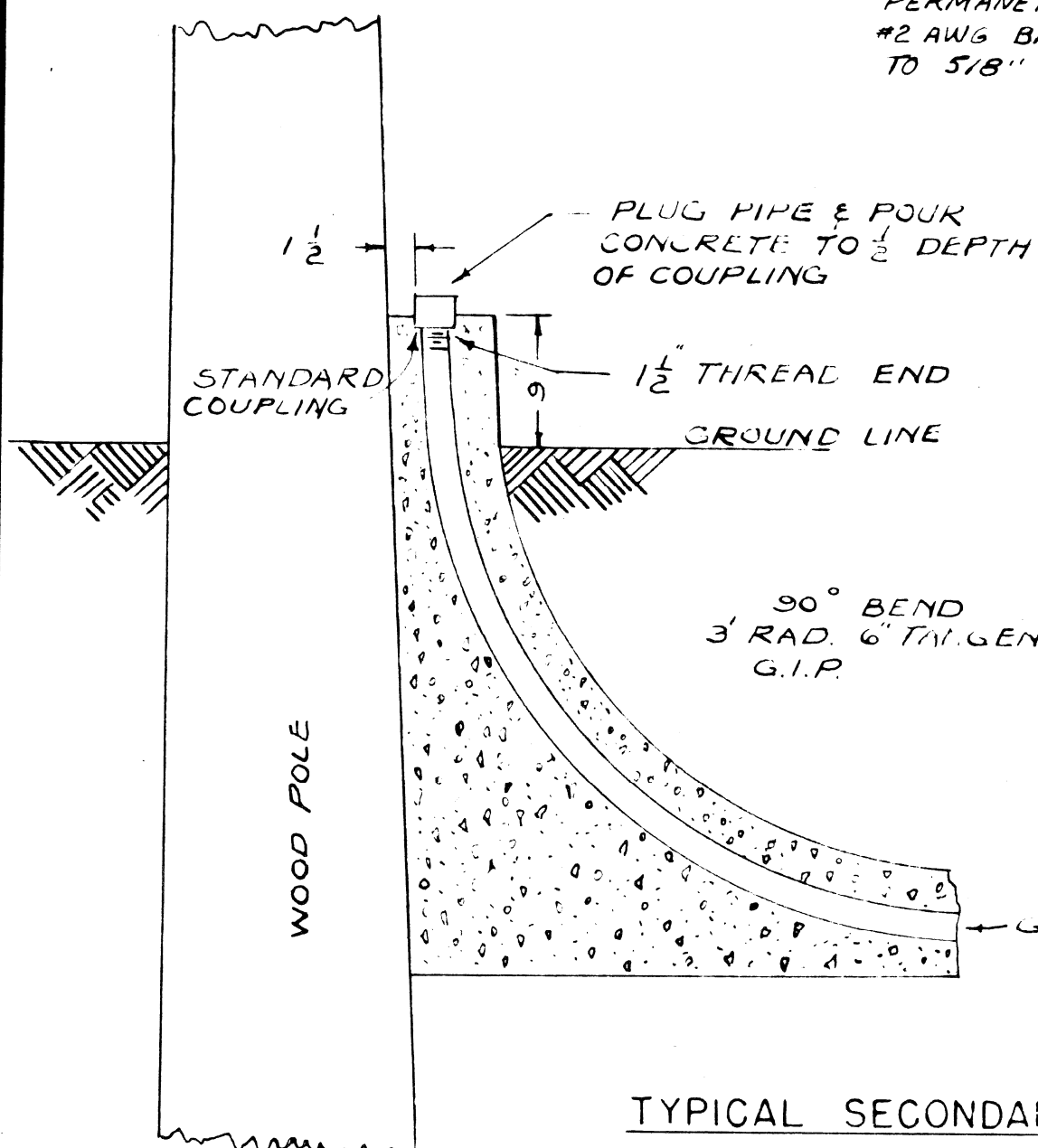
ADDITIONAL GRD. ROD FOR TRANS. SEC. NEUTRAL WHEN WATER PIPE GRD. IN BLDG. TO BE SERVED IS NOT AVAILABLE. OR WHEN INSTALLATION IS NOT FOR A BLDG. SERVICE



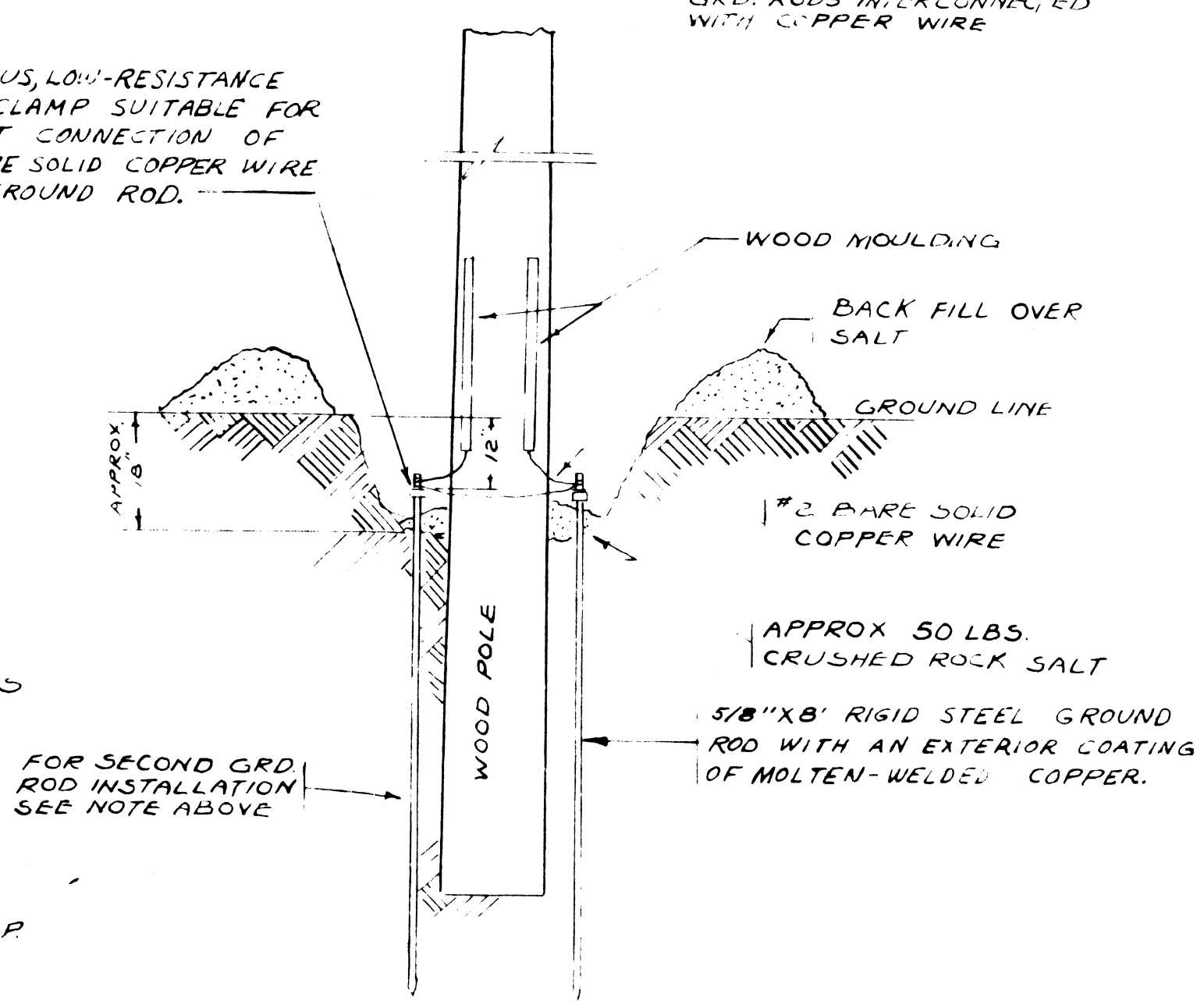
GRD. ROD FOR LIGHTNING ARRESTER

GRD. RODS INTERCONNECTED WITH COPPER WIRE

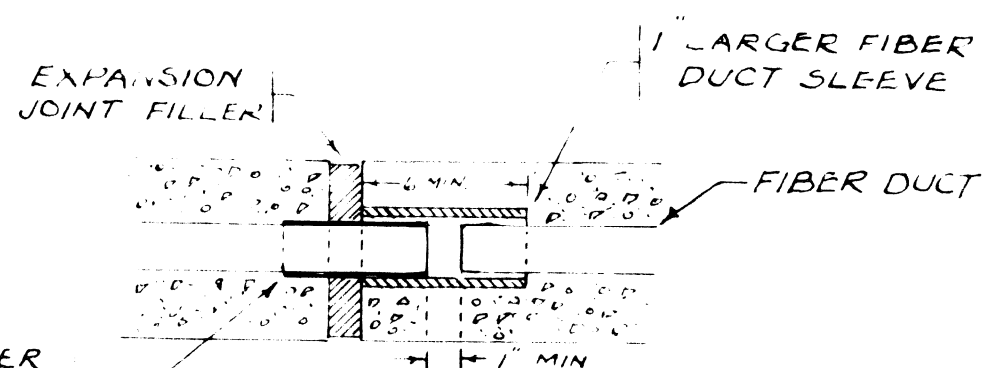
NON-FERROUS, LOW-RESISTANCE GROUNDING CLAMP SUITABLE FOR PERMANENT CONNECTION OF #2 AWG BARE SOLID COPPER WIRE TO 5/8" GROUND ROD.



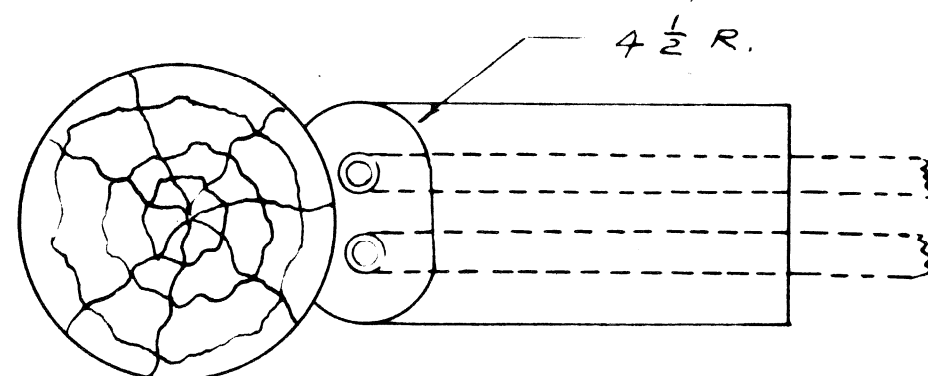
TYPICAL SECONDARY CABLE POLE G.I.P. CONN. SCALE 1" = 1'-0"



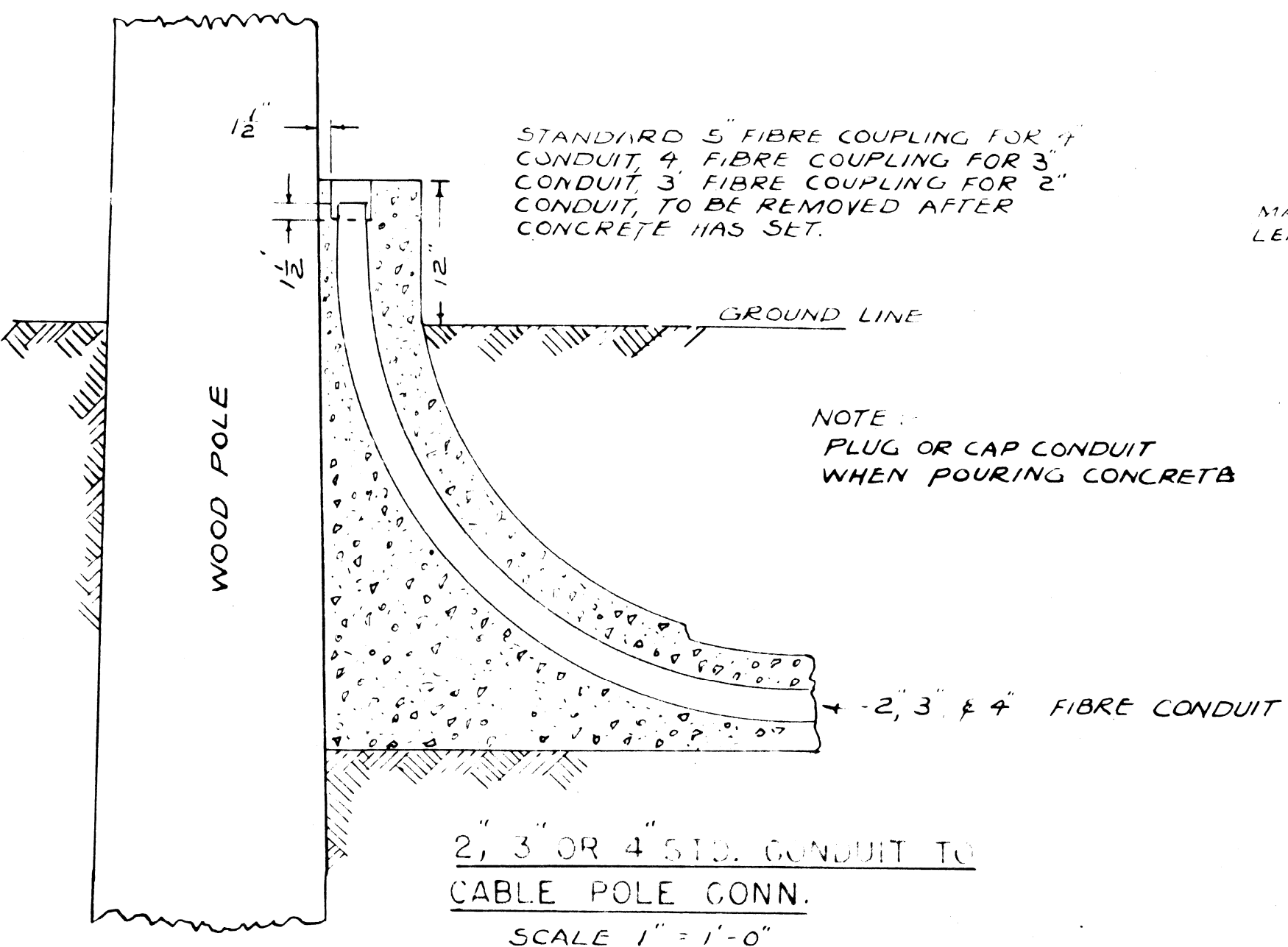
GROUND ROD INSTALLATION SCALE 1/2" = 1'-0"



DETAIL OF EXPANSION JOINT ON BRIDGE



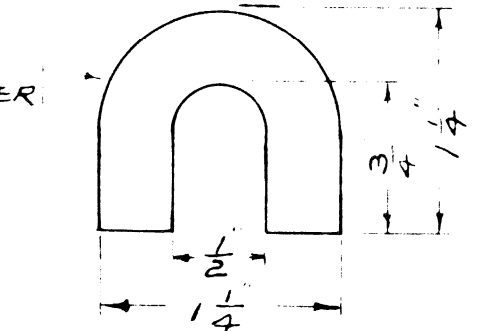
STANDARD 5" FIBRE COUPLING FOR 4" CONDUIT, 4" FIBRE COUPLING FOR 3" CONDUIT, 3" FIBRE COUPLING FOR 2" CONDUIT, TO BE REMOVED AFTER CONCRETE HAS SET.



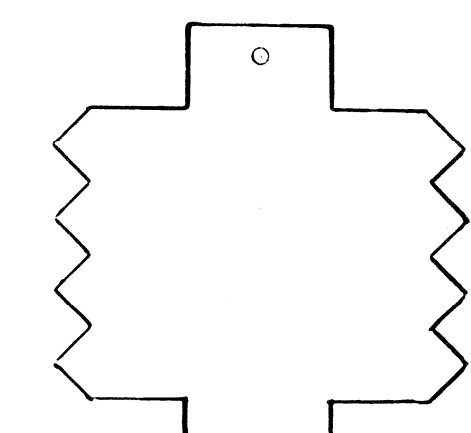
2, 3 OR 4 SID. CONDUIT TO CABLE POLE CONN. SCALE 1" = 1'-0"

NOTE: PLUG OR CAP CONDUIT WHEN POURING CONCRETE

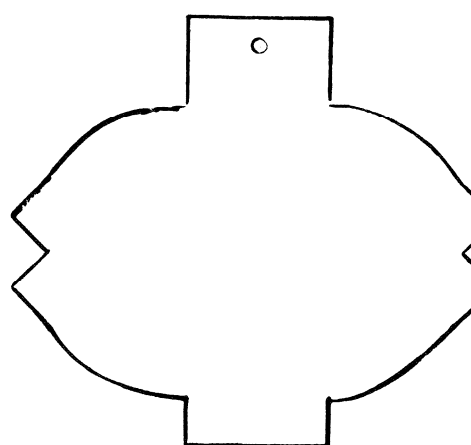
MADE IN 10'-0" LENGTHS & LONGER



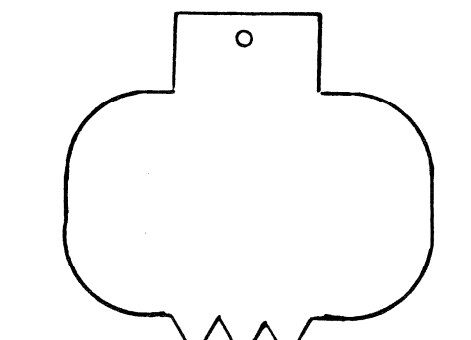
CYPRESS MOLDING FULL SCALE



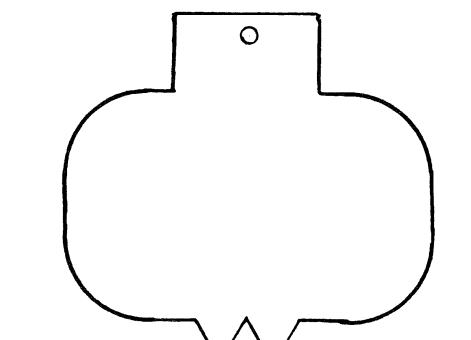
24000 VOLT TRUNK LINE



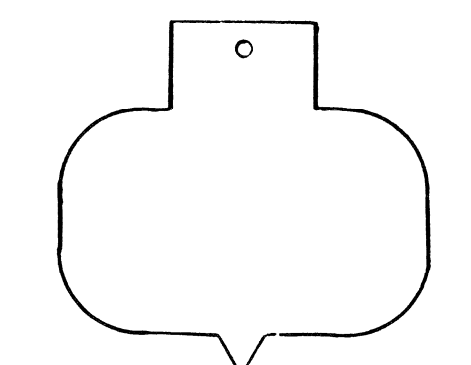
24000 VOLT FEEDER



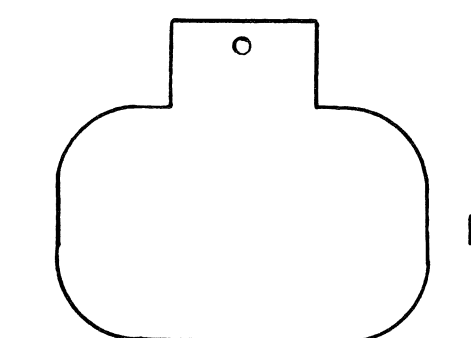
7200 VOLT FEEDER



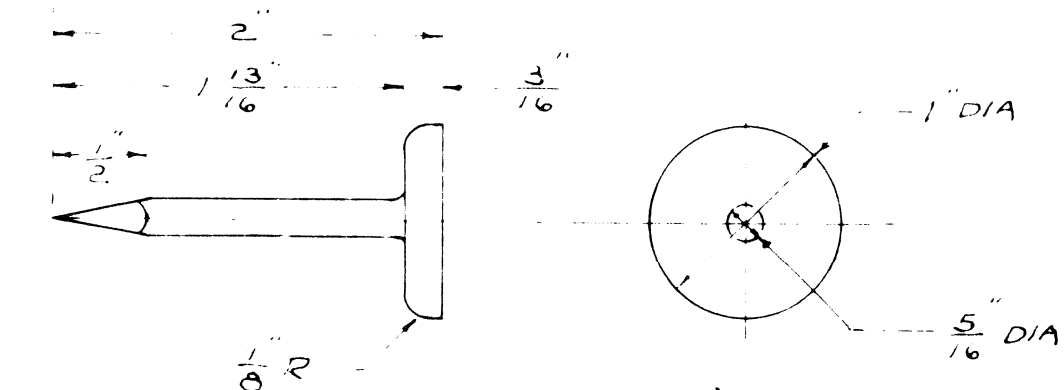
4800 VOLT & 5500 VOLT FEEDER



2400 VOLT FEEDER



MISCELLANEOUS



CAST BRONZE POLE MARKER FOR ALL WOOD POLES

TYPICAL MARKING

- C 45 - PLC 45 POLE
- 60 - SET IN 1960

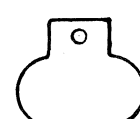
USE 1/4" STEEL STAMP FOR LETTERING PIN

SET MARKER 7'-0" ABOVE GRADE

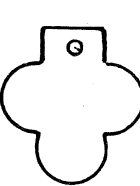
FACE OF HEAD TO BE ROUGH-GROUND. P.L.C. PATTERN PROVIDES FOR 40 MARKERS PER POURING

SUBSTATION NAMES ON IDENTIFICATION TAGS SHALL BE SPELLED AS FOLLOWS

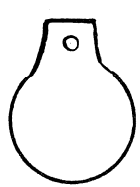
- ATWTR.
- BI
- BUTZL
- CNFLD
- CONNR
- CUSTER
- GRNFD
- HUDSN
- J. CAMP
- JOY RD.
- L.A. BEL
- LTHRP
- LUDDN
- MAPLE
- MORDE
- MTRSF
- FALL PK.
- PHILP
- PORTER
- STNTN
- STONE



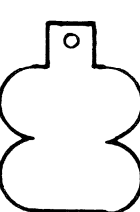
MULTIPLE INC. LTG.



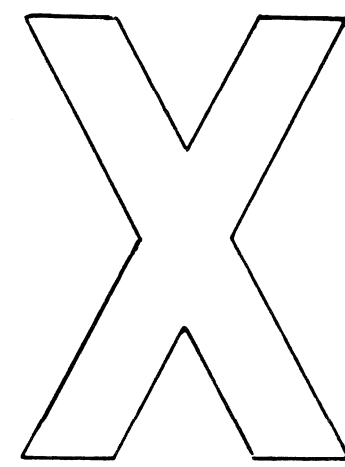
SECONDARY POWER SAFETY ISLANDS & TRAFFIC SIGNALS



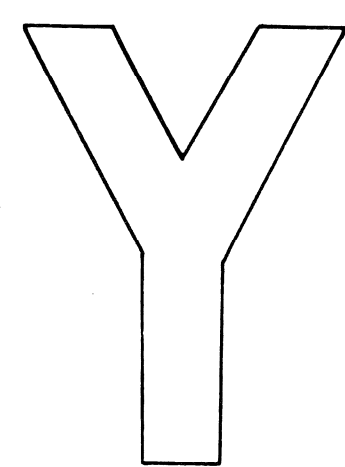
TRAFFIC SIGNALS



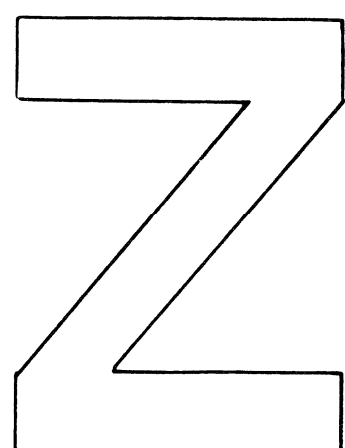
TRAFFIC SIGNAL CHRONOLIZER



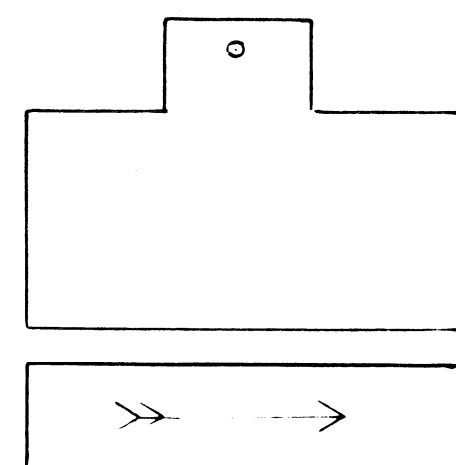
O.H. LINE PHASE TAG



O.H. LINE PHASE TAG



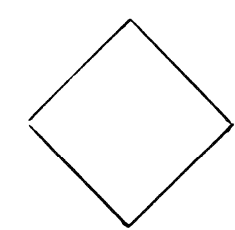
O.H. LINE PHASE TAG



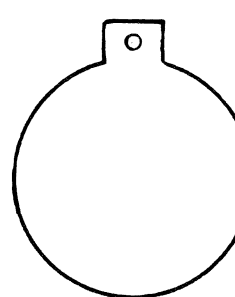
SUPERVISORY CONTROL



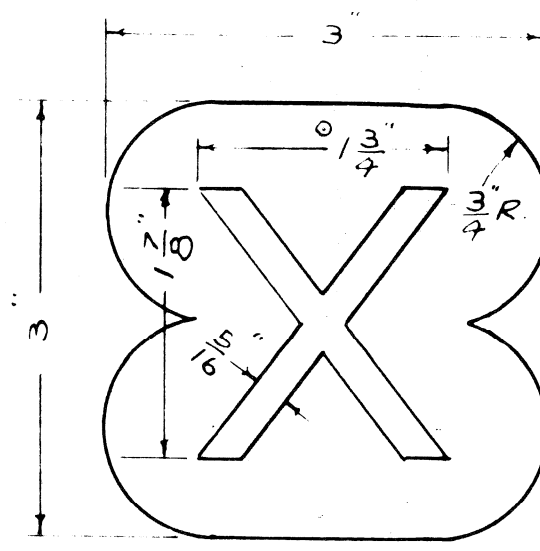
CIRCUIT DIRECTION



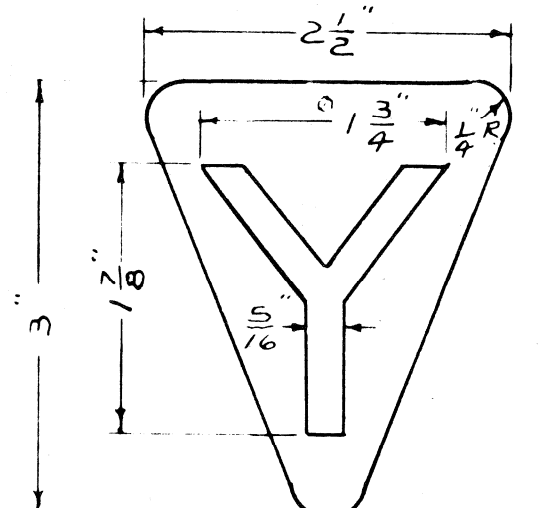
ST. LTG. COND. NO. (FROM 8/C CABLE)



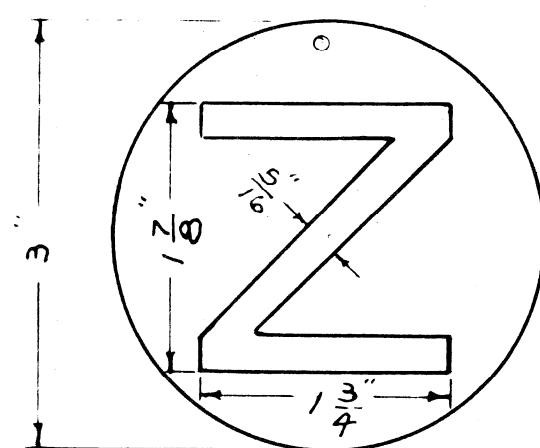
ST. LTG. CIRC. NUMBER



O.H. LINE OR POTHEAD PHASE TAG.



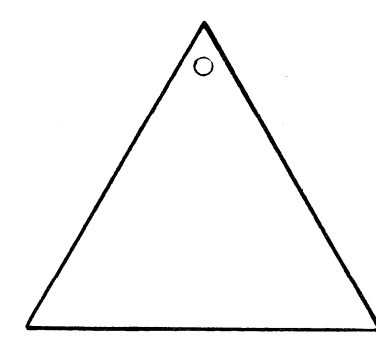
O.H. LINE OR POTHEAD PHASE TAG



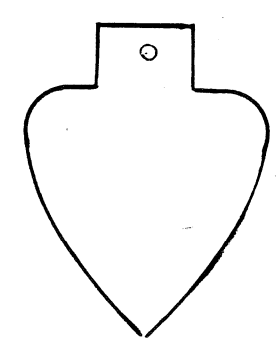
O.H. LINE OR POTHEAD PHASE TAG

NOTE: OVERHEAD LINE OR POTHEAD PHASE MARKERS

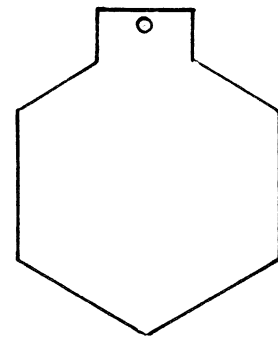
MATERIAL LEAD .035" THICK RAISED LETTERS .093" THICK



DEAD CABLE



8 COND. CABLE



MULTIPLE LTG. CONTROL

IDENTIFICATION TAGS

MATERIAL LEAD SCALE 3/4" = 1"

NOTE

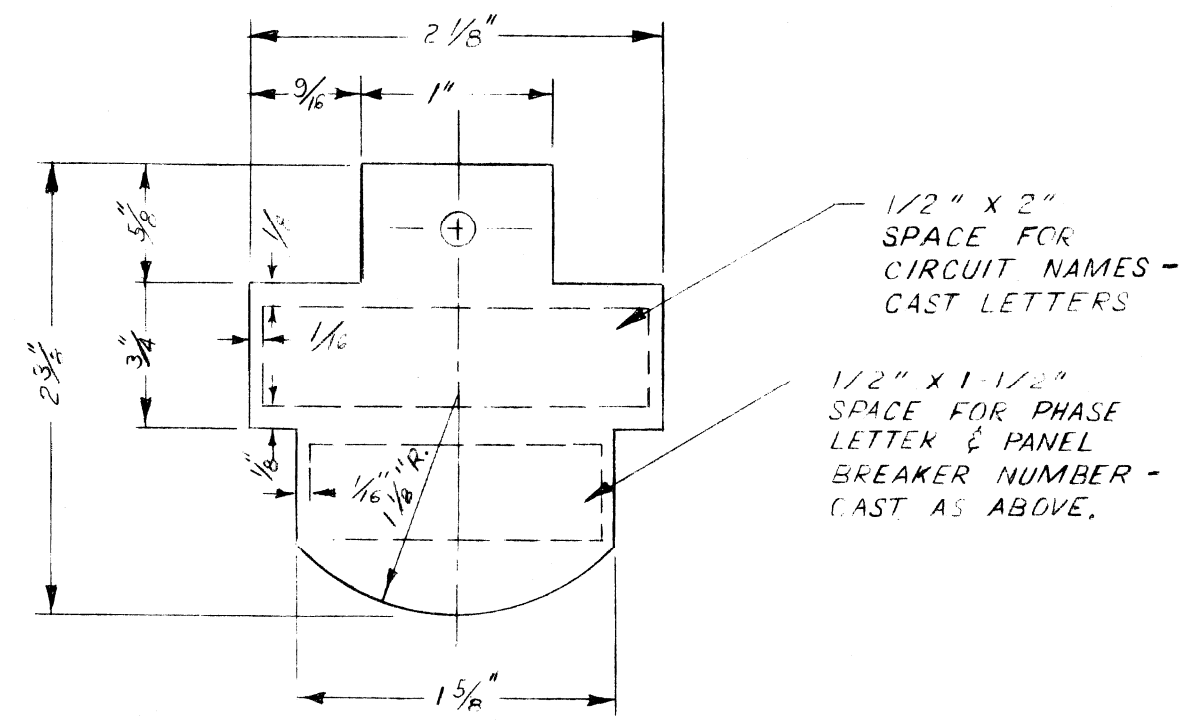
CABLE TAG MARKINGS SUCH AS SUBSTATION OR CABLE MARKINGS WILL BE AS SHOWN ON PLANS OR WILL BE FURNISHED BY P.L.C.

CITY OF DETROIT		DRAWN BY	FILE NO.
PUBLIC LIGHTING COMMISSION		<i>M.C.</i>	55-3A
P.L.C. DETAILS		CHECKED BY	SHEET NO.
CABLE POLE & CABLE MARKING TAGS		<i>J.</i>	10
		APPROVED BY	DATE
		<i>[Signature]</i>	2-11-52

MICHIGAN STATE HIGHWAY DEPARTMENT

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADDED CAST BRONZE POLE MARKER	3-8-60	<i>[Signature]</i>

SQUAD BOSS	
DRAWN BY	
TRACED BY	
CHECKED BY	
SHEET	31 OF 43



SUBSTATION NAMES ON IDENTIFICATION TAGS
SHALL BE SPELLED AS FOLLOWS:

CONSTANCE — CONST.
FULLERTON — FULLT.
KEELER — KEELF.
7-MILE — 7-MILE
MEYERS — MEYRS.
SCHAEFER — SCHFR.
FREELAND — FRELD.
WATSON — WATSN.
CONGRESS — CONGRS.
MONTGALM — MTGLM.
FERRY — FERRY.
HOLBROOK — HOLBK.
FORD — FORD.
CASS — CASS

TRANSCLASURE:

FORD RD. SOUTHFIELD — FORD
8-MILE - JAMES C. WILSONS — 8-MILE
S FORT - SCHAEFER — S.FORT
E. GD. BLVD - RICHMOND — RICH
DEARBORN — DFRBN.
CASS TECH — CASS
JUNCTION — JUNCT.
RUSKIN S. OF MICH — RUSKN.
OAKLAND - LANTZ — LANTZ
MICHIGAN — MICH.

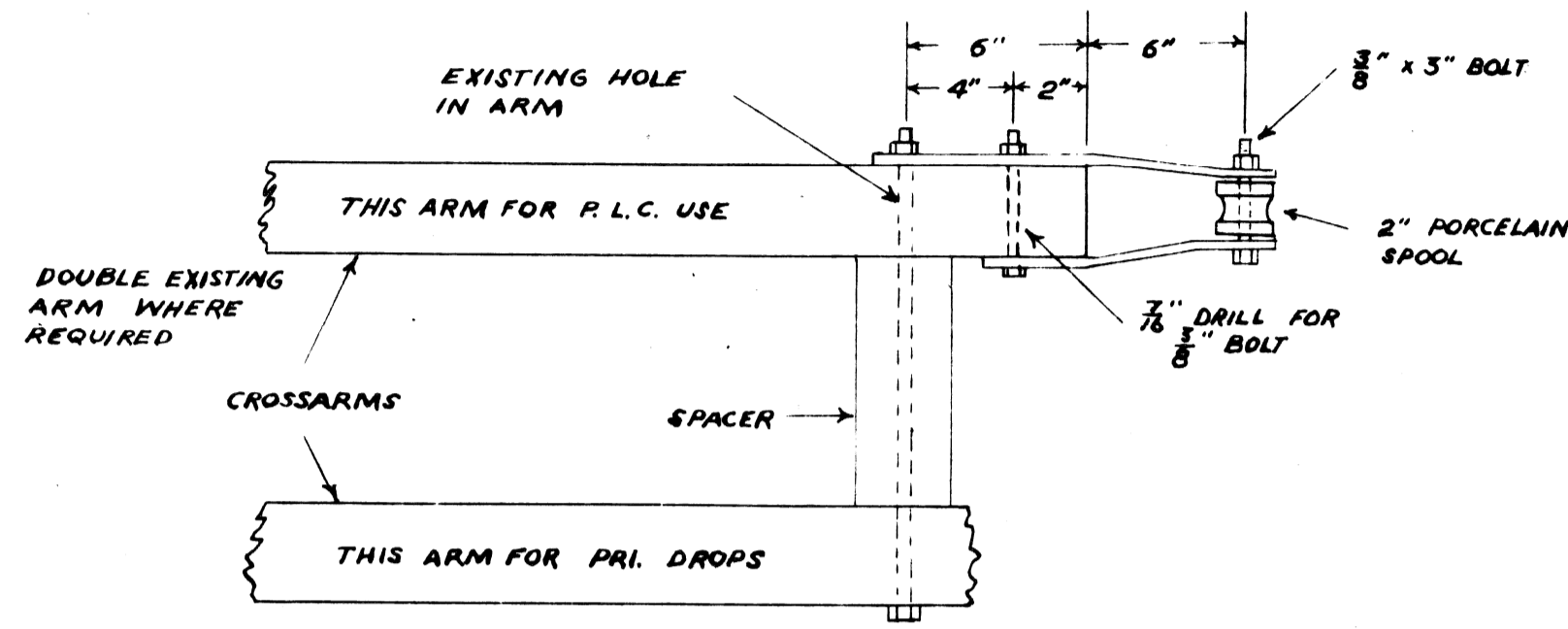
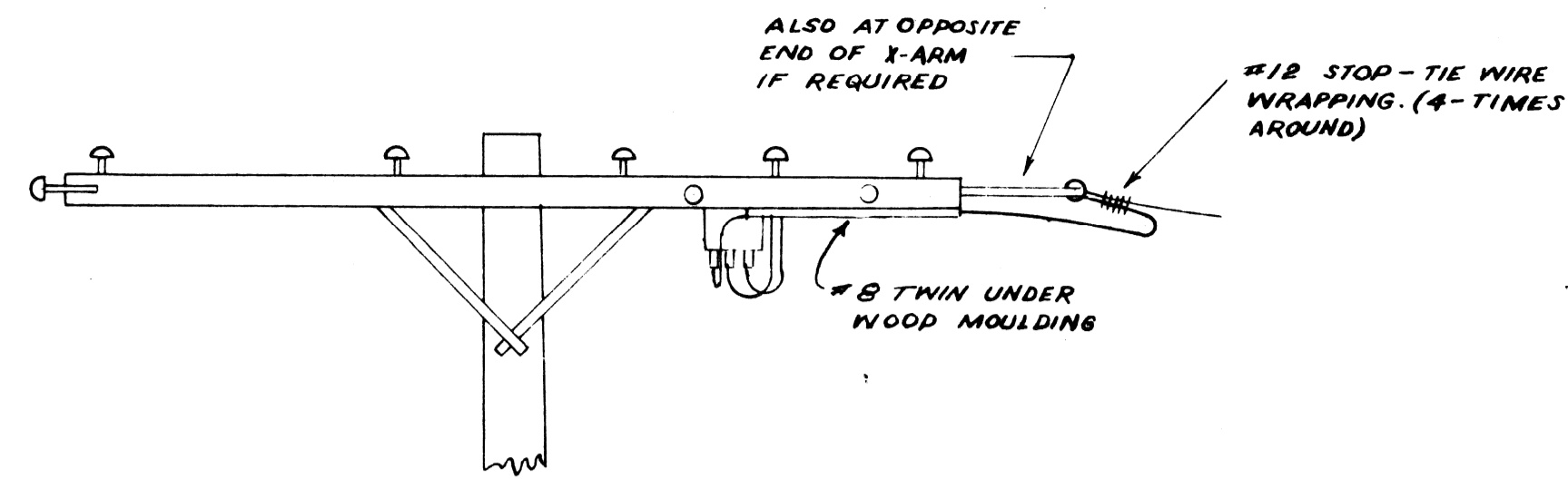
MULTIPLE MERCURY LIGHTING
IDENTIFICATION TAGS
EXPRESSWAYS

CITY OF DETROIT PUBLIC LIGHTING COMMISSION P.L.C. DETAILS CABLE MARKING TAGS	DRAWN BY	FILE NO.
	DE	55-3
	CHECKED BY	SHEET NO.
		10 A
APPROVED BY	DATE	
		2-23-62

MICHIGAN STATE HIGHWAY DEPARTMENT

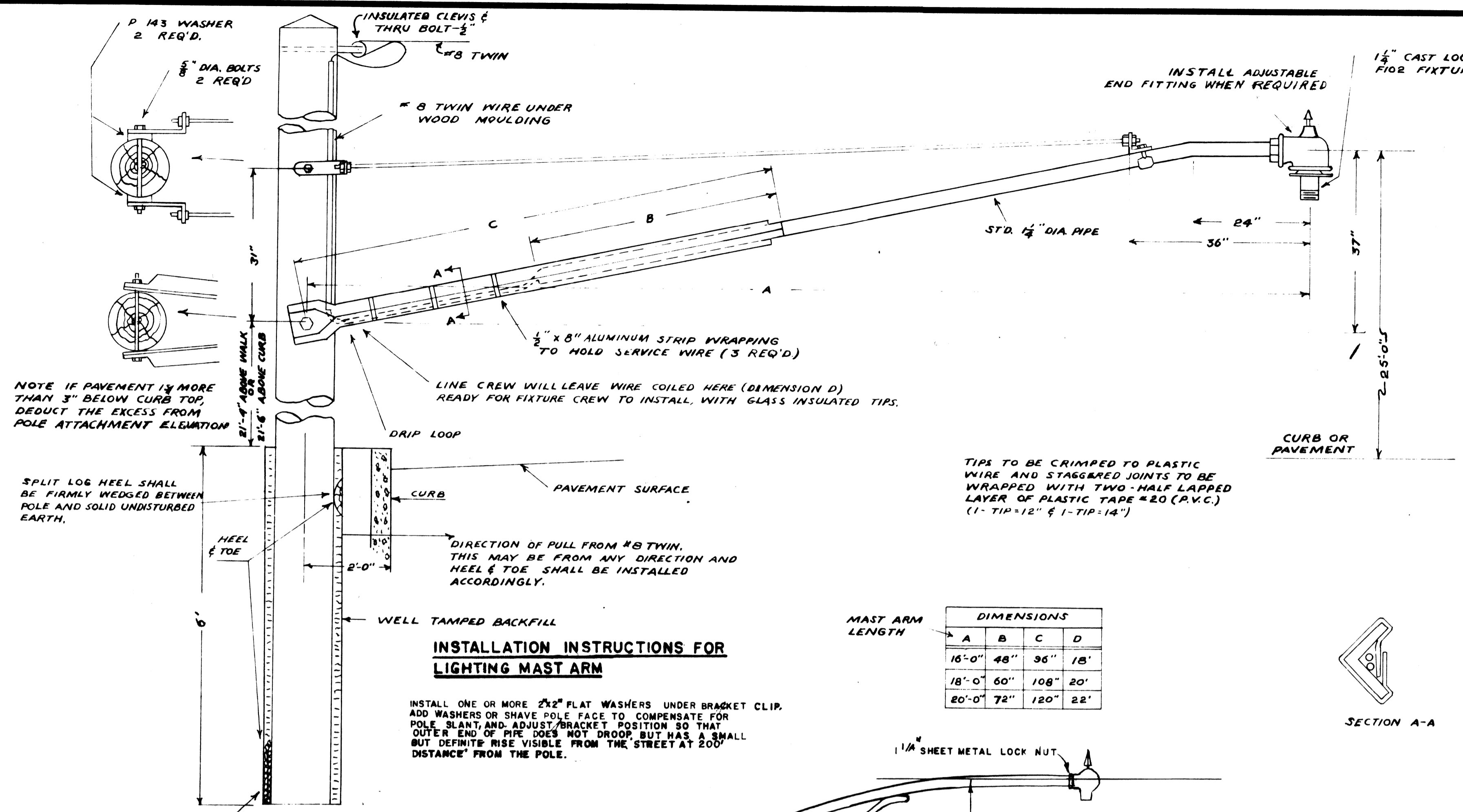
REVISIONS				SQUAD BOSS	
NO.	DESCRIPTION	DATE	BY	DRAWN BY	CHECKED BY

SHEET 32 OF 43



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

**END OF ARM CONSTRUCTION FOR STREET LIGHTING
AT TRANSFORMER OR CABLE POLES**



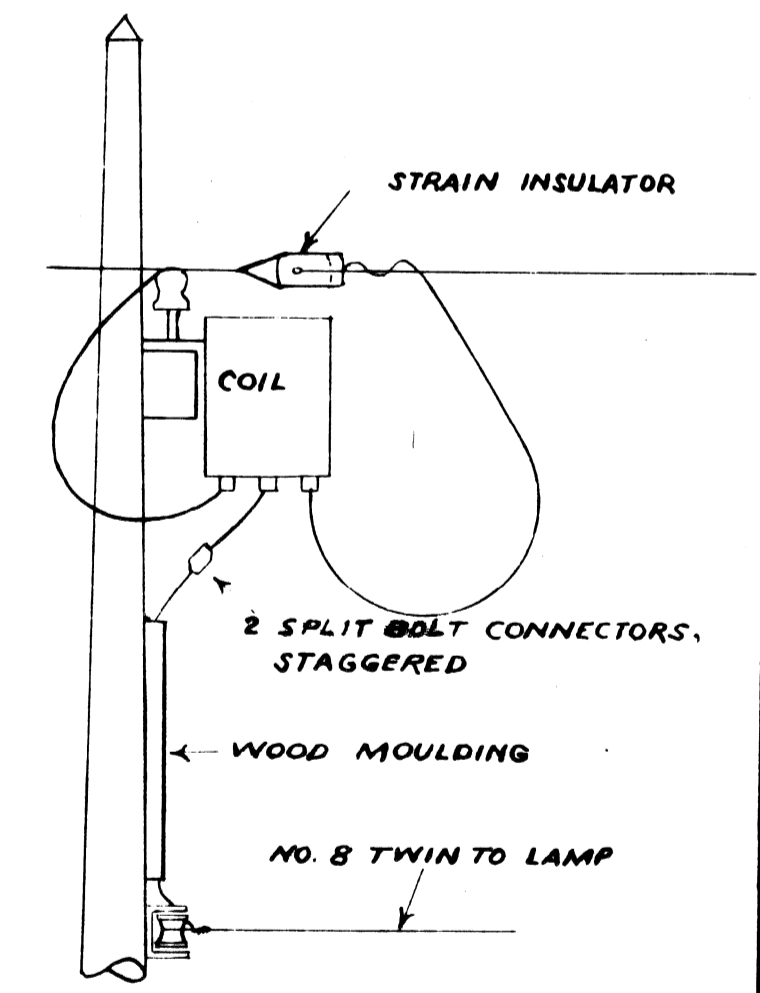
NOTE IF PAVEMENT IS MORE THAN 3" BELOW CURB TOP, DEDUCT THE EXCESS FROM POLE ATTACHMENT ELEVATION

SPLIT LOG HEEL SHALL BE FIRMLY WEDGED BETWEEN POLE AND SOLID UNDISTURBED EARTH.

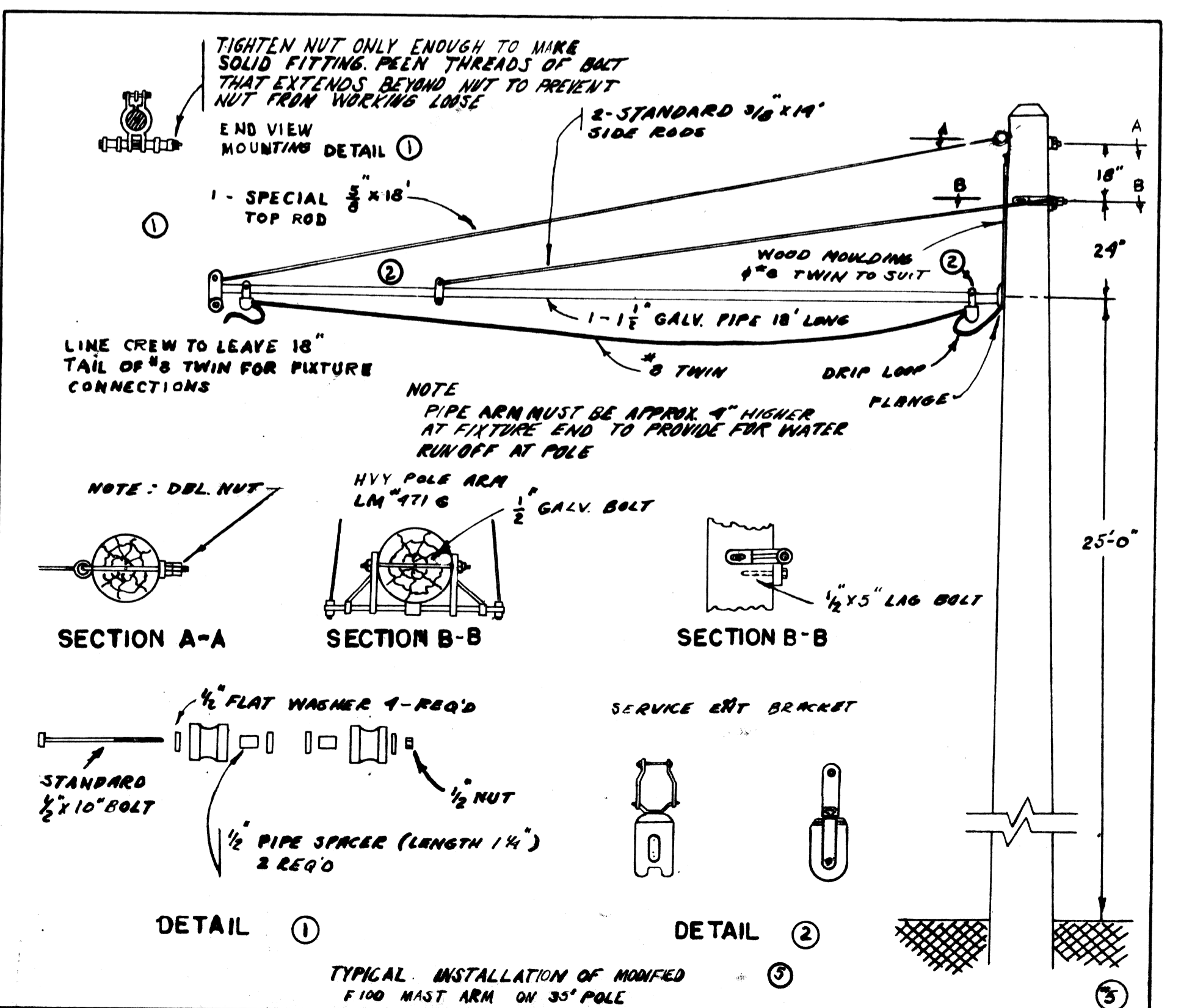
**INSTALLATION INSTRUCTIONS FOR
LIGHTING MAST ARM**

INSTALL ONE OR MORE 2x2" FLAT WASHERS UNDER BRACKET CLIP. ADD WASHERS OR SHAVE 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 20' DISTANCE FROM THE POLE.

MAST ARM LENGTH	DIMENSIONS			
	A	B	C	D
16'-0"	48"	36"	18'	
18'-0"	60"	108"	20'	
20'-0"	72"	120"	22'	



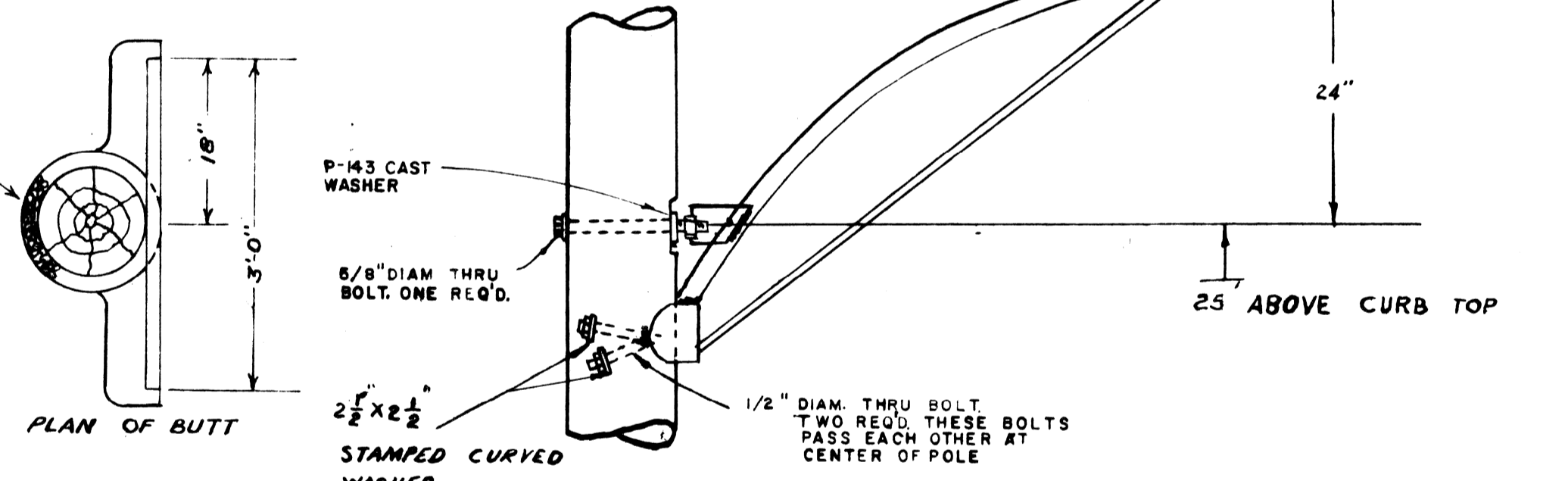
TYPICAL COIL INSTALLATION



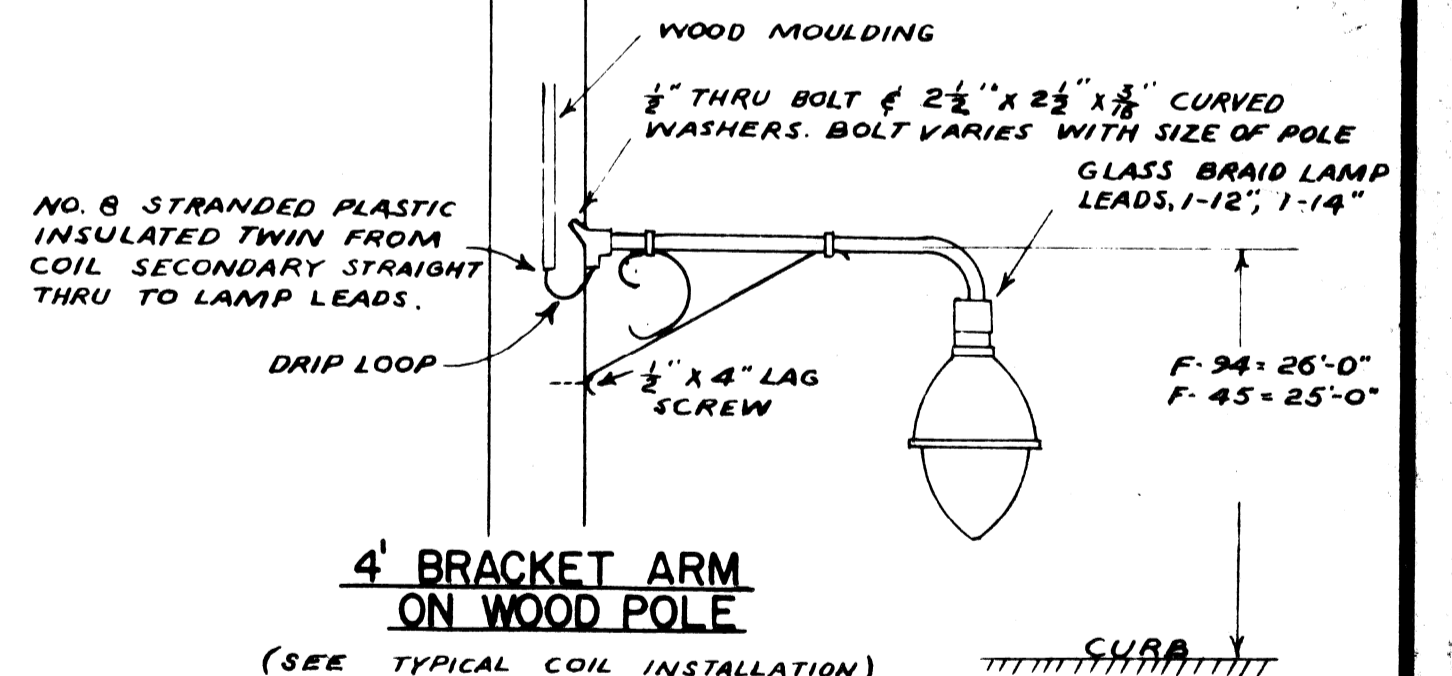
DETAIL 1

DETAIL 2

TYPICAL INSTALLATION OF MODIFIED F100 MAST ARM ON 35' POLE

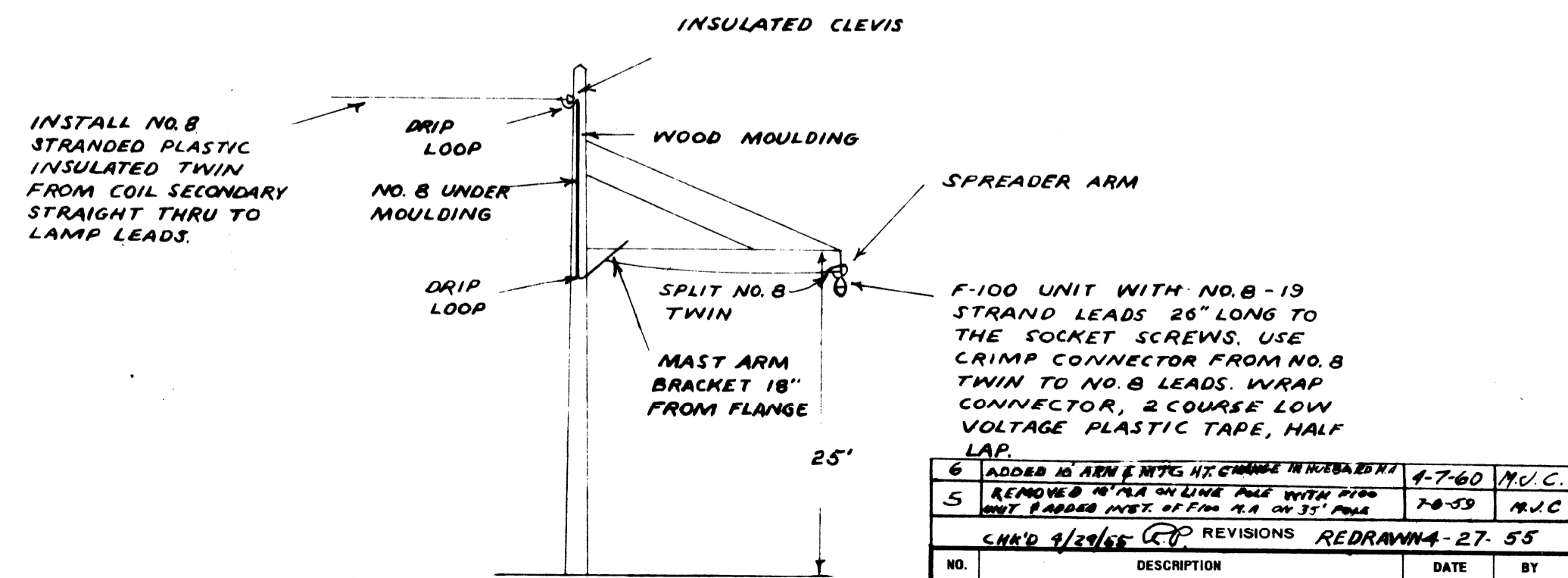


**6 FT. OR 10 FT. UPSWEEP STREET LIGHTING BRACKET
PIPE & BRACE TYPE**



4' BRACKET ARM ON WOOD POLE

(SEE TYPICAL COIL INSTALLATION)



**18' PIPE MAST ARM ON SEPARATE
WOOD POLE WITH FORM NO. 100 LUMINAIRE**

NO.	DESCRIPTION	DATE	BY
6	ADDED 10' ARM & MTC HT CHANGE IN DRAWING	4-7-60	M.C.
5	REMOVED 8' PIPE ON LINE FACE WITH 10' MTC BRACKET MET. FROM 11.4 ON 11' POLE	7-8-59	M.C.
CHK'D 9/29/66 C.P. REVISIONS REDRAWN 4-27-55			
1	HUBBARD M.A. REPL. FAB. M.A.	6-27-49	G.E.
2	MISC. CHANGES	8-15-50	W.G.
3	MOUNTING HEIGHT CHANGE	4-29-53	R.G.P.
4	6' BRACKET ARM ADDED	5-7-56	CM

**CITY OF DETROIT
PUBLIC LIGHTING COMMISSION**

**P.L.C. DETAILS
STREET LIGHTING MAST ARM**

DRAWN BY R.S.C.	FILE NO. 55-3C
CHECKED BY G.J.	SHEET NO. 14
APPROVED BY [Signature]	DATE 7-7-47

MICHIGAN STATE HIGHWAY DEPARTMENT

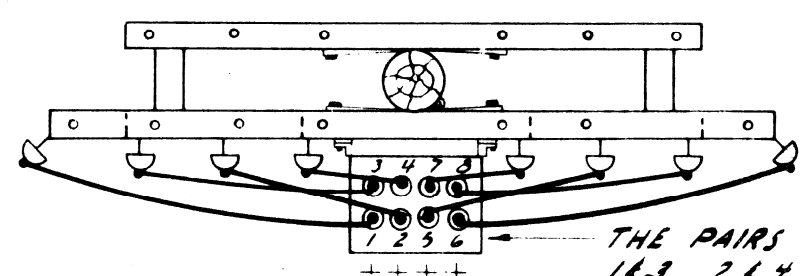
STATE HIGHWAY COMMISSIONER

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

SQUAD BOSS

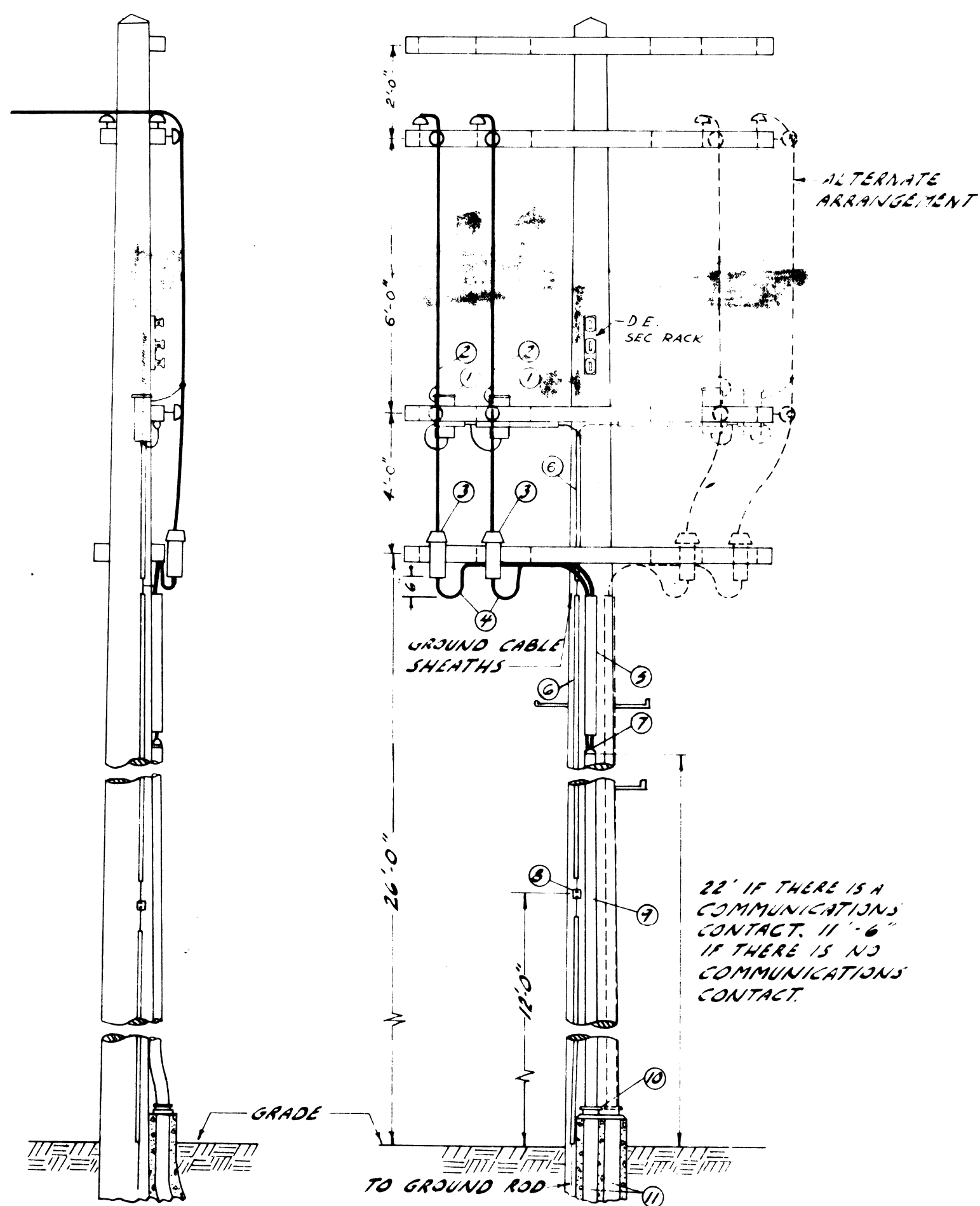
DRAWN BY	
TRACED BY	
CHECKED BY	

SHEET 33 OF 43

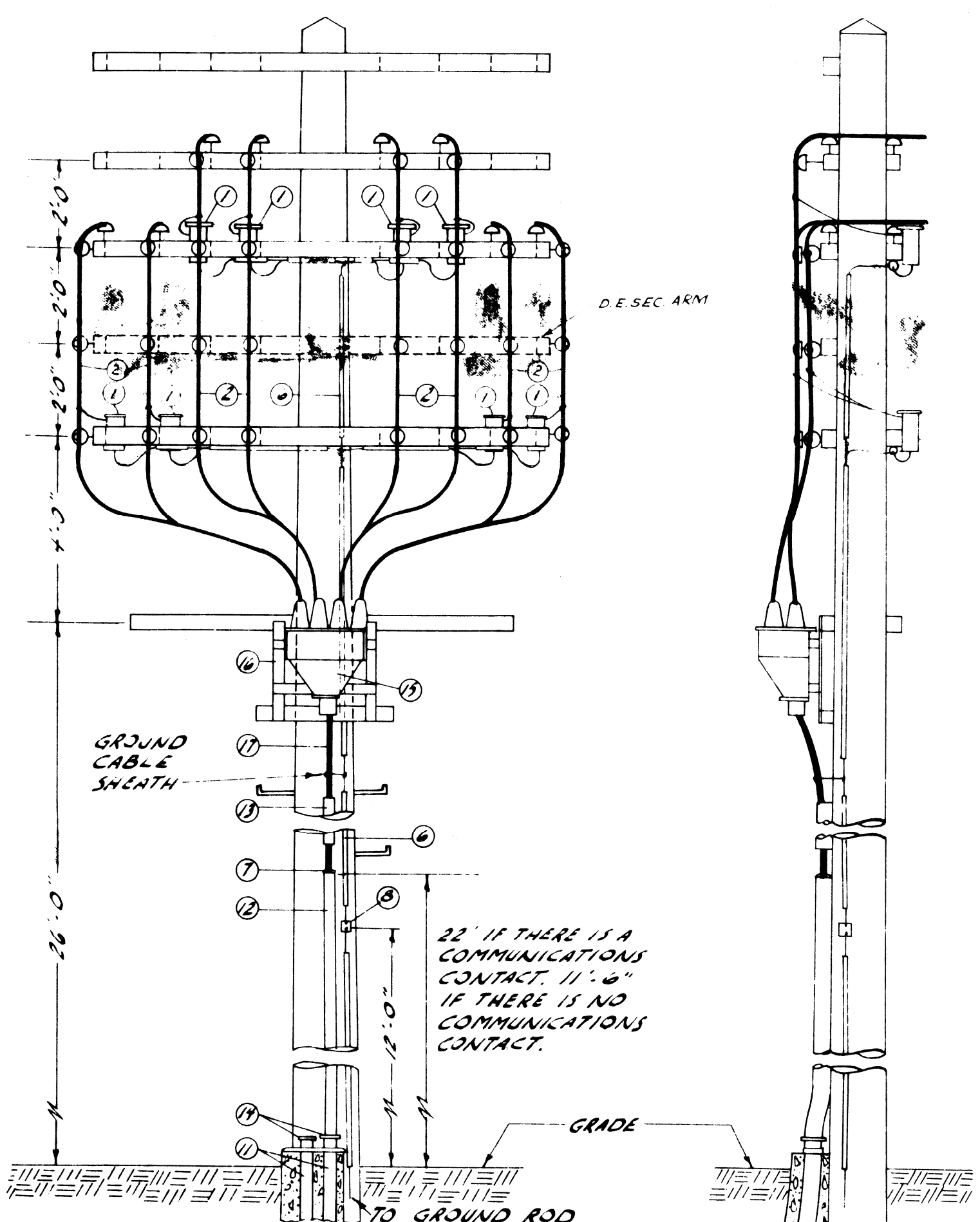


THE PAIRS FOR EACH CIRCUIT ARE
1,3, 2,4, 3,1, 2,1, 3,1, 2,3,
4,6 ARE POSITIVE.

PLAN AT FIFTH GAIN INCLUDING
3/C POTHEAD.

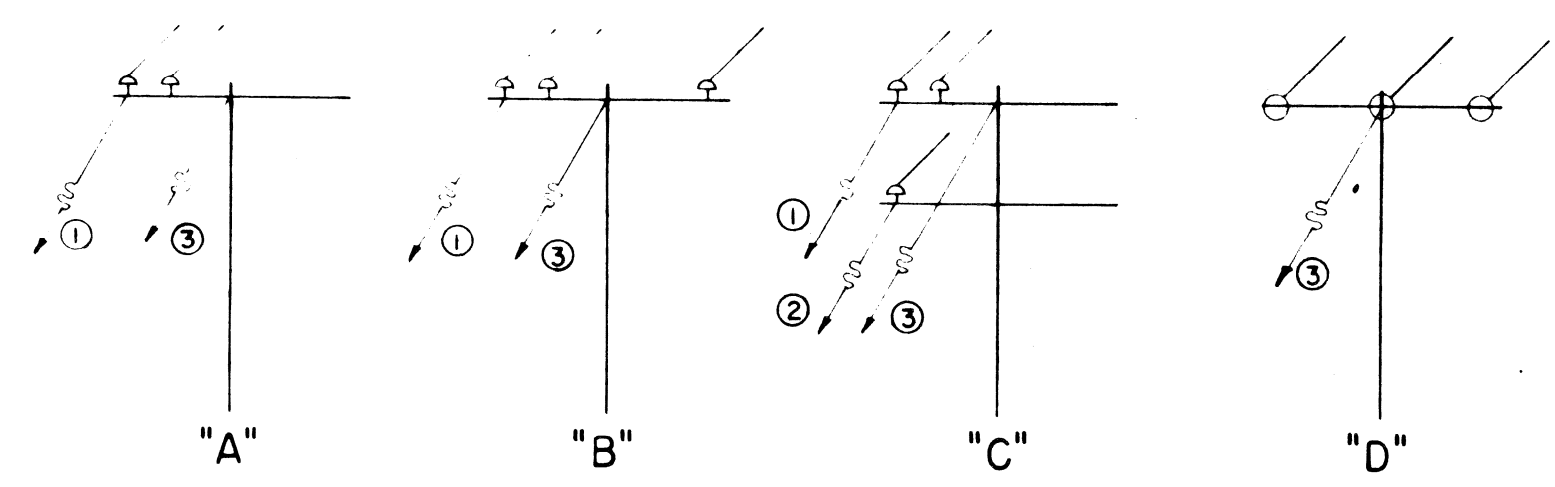


TYPICAL STREET LIGHTING CABLE POLE
NO SCALE



TYPICAL 8/C STREET LIGHTING CABLE POLE
NO SCALE

7 GUYING SIEMENS-MARTIN GRADE GALVANIZED STRAND



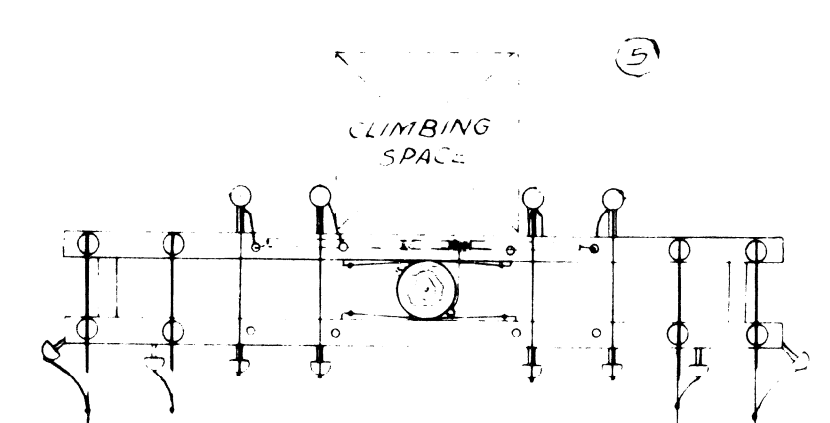
DEAD-END #6 ON PINS & DOUBLE ARMS
DEAD-END #2 8"2/0 ON DISKS & DOUBLE ARMS
DEAD-END #4/0 ON DISKS & TRIPLE ARMS

GUY STRENGTH

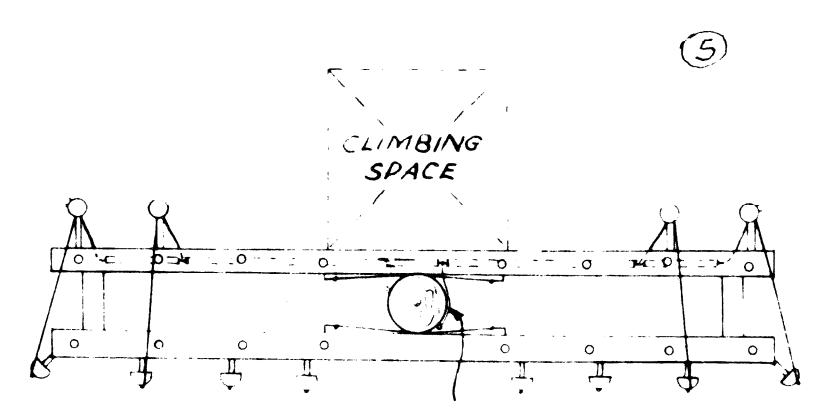
SIZE	WGT./M'	ULTIMATE STRENGTH LBS.	# WORKING STRENGTH LBS.
1/4"	121	3150	2760
3/8"	273	6950	6075
1/2"	517	12,100	10,600

*(7/8 X ULT.)

WIRE SIZE	NORMAL TENSION EACH WIRE LBS.	USE GUY WIRE SIZE			
		ARM ①	ARM ②	POLE ③	ANCHOR GUY
#4 8" #6	700	1/4"	1/4"	1/4"	3/8"
#2	1200	1/4"	1/4"	3/8"	3/8"
#2/0	1700	3/8"	1/4"	3/8"	1/2"
#4/0	2500	3/8"	1/4"	1/2"	1/2"



PLAN AT THIRD ARM

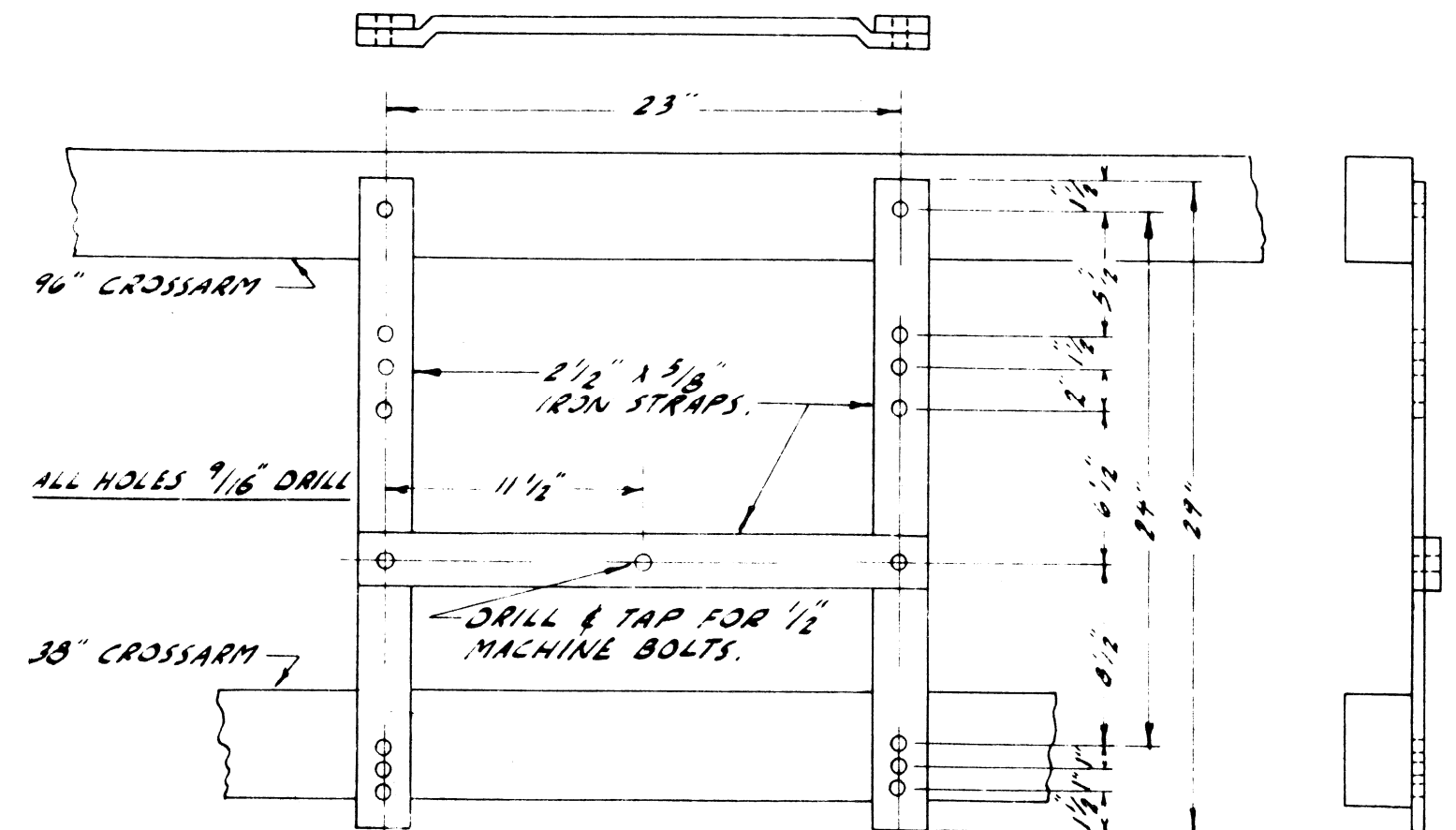


PLAN AT FIFTH ARM

NOTE:
COVER ALL GRD. WIRE NOT COVERED WITH MOLDING, WITH PLASTIC TREE GUARD

DETAIL ITEMS

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



BRACKET FOR 8/C POLE TYPE POTHEAD
DETAIL "A"
NO SCALE

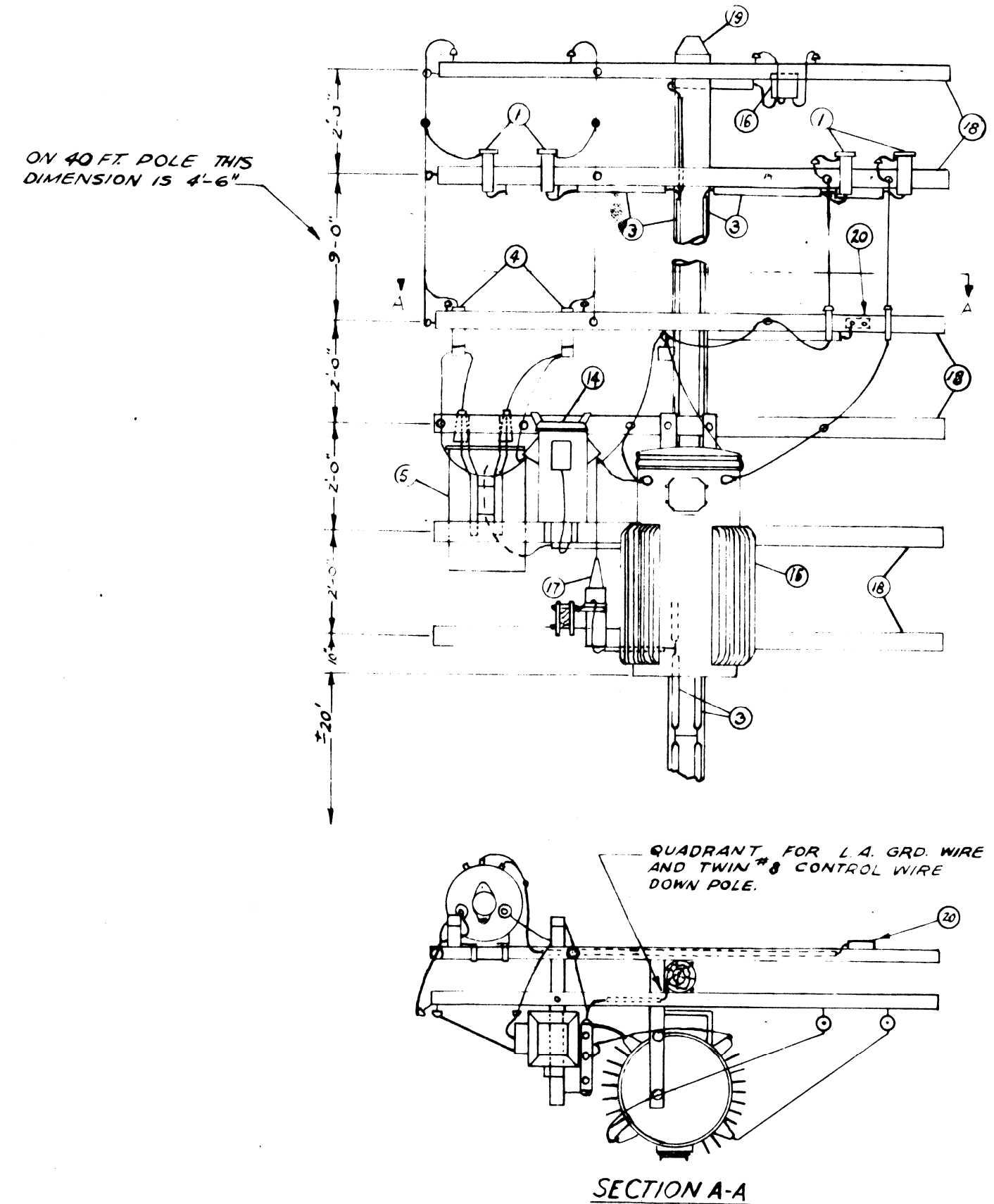
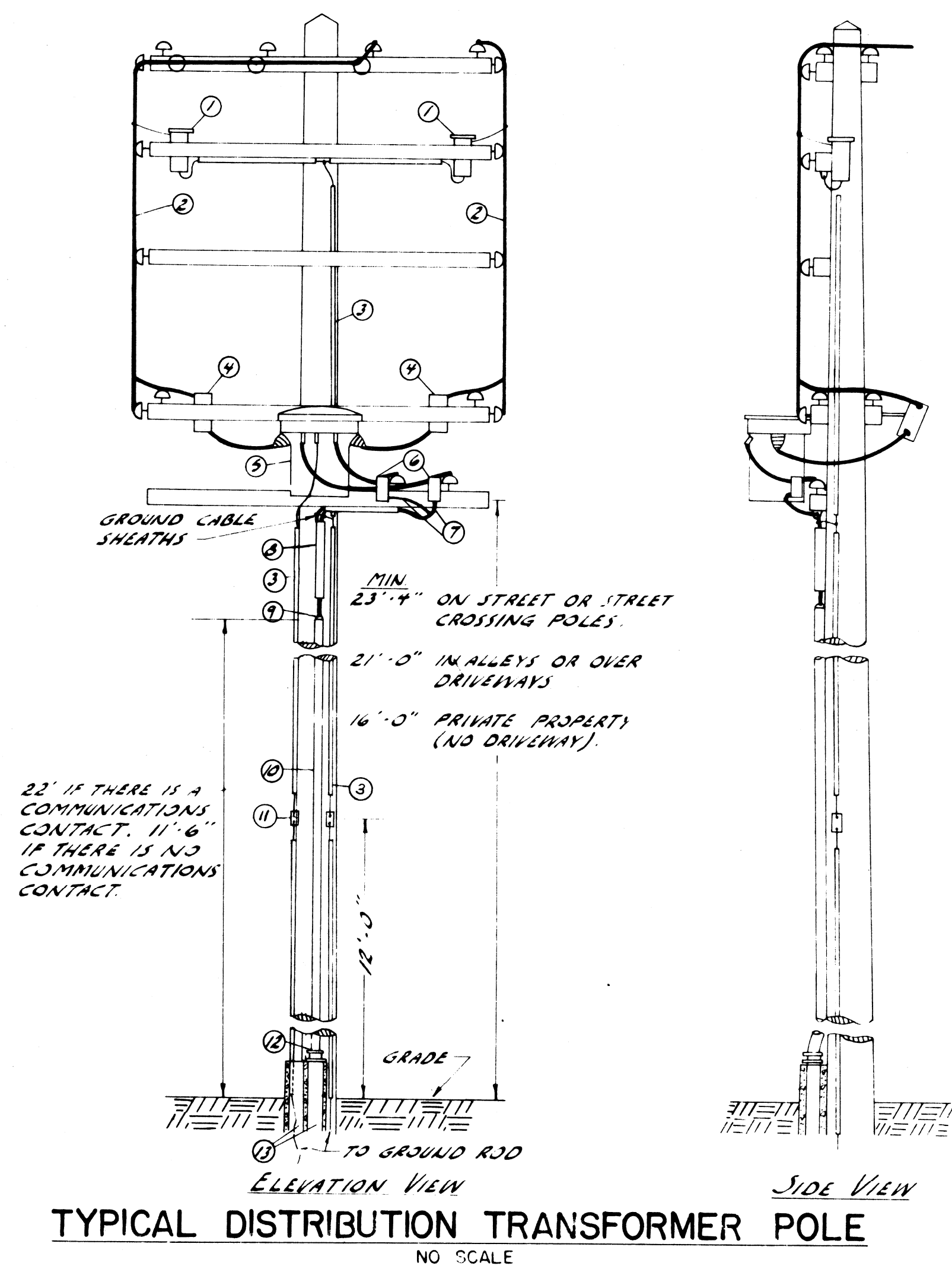
NOTES

- SEE SHEET 10 OF P.L.C. DETAILS FOR GROUND ROD AND CONDUIT INSTALLATION.
- INSTALL STEPS ON POLE FROM 8'-0" ABOVE GROUND TO 48" BELOW POT HEAD ARM.
- INSTALL BRASS TAG ON EACH PH. CAPS, PH. BODY. TAGS TO BE STAMPED WITH THE FOLLOWING INFORMATION: STREET LIGHTING CIRC. NUMBER, & "PLUS" TO INDICATE POSITIVE LEAD.

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
4	REFRAMED ST. LIG. CABLE POLE'S	8-18-57	W.K.K.F.	1	ADDED 8/C C.A. DETAIL	2-11-58	D.J.N.
5	REMOVED ENVELOPE OF EXHAUST GASES	8-11-58	M.J.C.	2	CHANGED DIM. TO POTHEAD	8-9-55	R.T.
6	NOTES #2 & 3 ADDED	9-19-54	C.F.B.	3	CHANGED GUYING DETAIL & ADDED CLIMBING SPACE DETAIL	6-2-55	R.C.D.
7	ADDED GUY WIRE CHART	4-7-66	R.K.J.				

CITY OF DETROIT PUBLIC LIGHTING COMMISSION		DRAWN BY DJN	FILE NO. 55-3
P. L. C. DETAILS--CABLE POLES		CHECKED BY <i>[Signature]</i>	SHEET NO. 26
		APPROVED BY <i>[Signature]</i>	DATE 4-27-55
MICHIGAN STATE HIGHWAY DEPARTMENT			
APPROVED _____	CHIEF BRIDGE DRAFTSMAN		
APPROVED _____	ENGINEER OF BRIDGE DESIGN		
APPROVED _____	BRIDGE ENGINEER		

SQUAD BOSS
DRAWN BY
TRACED BY
CHECKED BY
SHEET 34 OF 43



TYPICAL POLE MOUNTED
C.C. REGULATOR OH. STREET
LIGHTING CIRCUIT

DETAIL ITEMS	
1	LIGHTNING ARRESTER
2	OVERHEAD TRAINING WIRE (#8-2-#10-#10 AS SPECIFIED)
3	#2 GROUND WIRE UNDER WOOD MULDING
4	PRIMARY FUSE CUTOUT
5	1 1/2 DISTRIBUTION TRANSFORMER
6	NEARBY TYPE "A" (SECONDARY) FUSE CUTOUT
7	1/2 L.C. SECONDARY CABLE
8	3" PLUT FIBRE DUCT ABOVE S.P. TO 8" 3/8 IN. CROSS-ARM
9	LEAD WEATHERCAP & 1 1/2" BALL BUSHING
10	S.P. RISER (SIZE TO CABLE OR AS SPECIFIED)
11	FOUR S-REW CONNECTOR
12	1 1/2" X 4" REDUCER ADAPTER
13	4" FIBRE CONDUIT
14	R.C.C. RELAY
15	30 AMP. C.C. REGULATOR
16	1/2 K.V. COIL
17	CAPACITOR
18	150" X-ARM
19	45" HEAVY CL. 2 POLE UNLESS 40" POLE IS SPECIFIED; SELF-SUPPORT IN GRAVEL
20	TEST BOX- NEPTUNE #65000 B; COVER #60000 B; CAT #305 RECEPTACLE CAP; CAT #431 KEYLESS S-REW SHELL LAMP RECEPTACLE; 15 A. PLUG FUSE.

③ & ⑤ VOLTAGE RATING OF EQUIPMENT & SIZE OF TRANSFORMERS SHALL BE AS SHOWN ON THE PLAN DRAWINGS.

NOTES

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

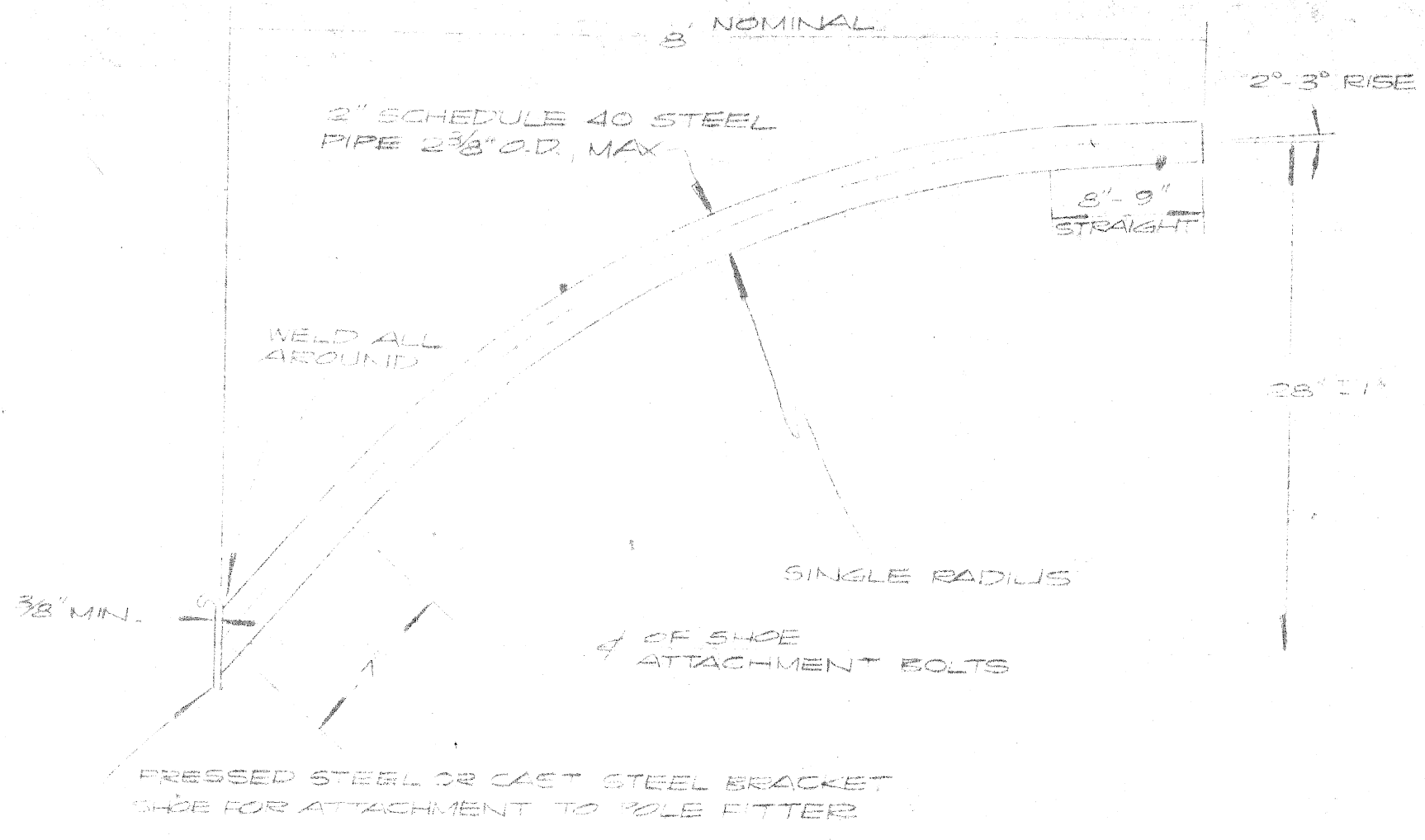
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADDED SECOND GROUND ROD CONNECTION	7-19-51	R.C.T.
2	CHANGED POLE TOP CONFIGURATION OF POLE MTD. ST. LTD. REGULATOR	3-17-60	L.W.M.
3	REVISED ITEM DETAILS & ADDED NOTE	11-9-60	L.W.M.

CITY OF DETROIT		DRAWN BY	FILE NO.
PUBLIC LIGHTING COMMISSION		DJN	55-3A
P.L.C. DETAILS		CHECKED BY	SHEET NO.
OVERHEAD TRANSFORMER INSTALLATION			27
		APPROVED BY	DATE
			7-9-49

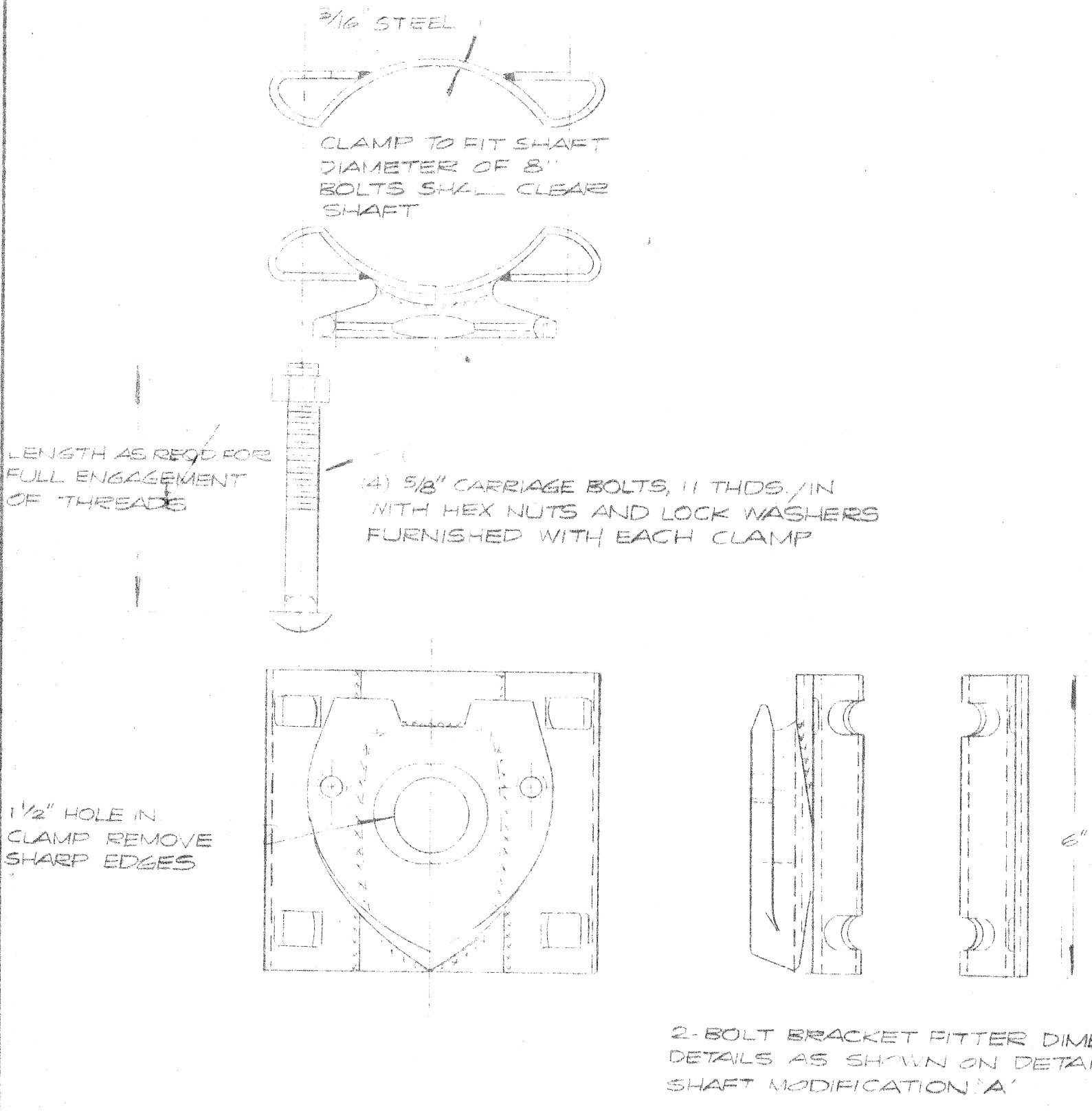
MICHIGAN STATE HIGHWAY DEPARTMENT

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

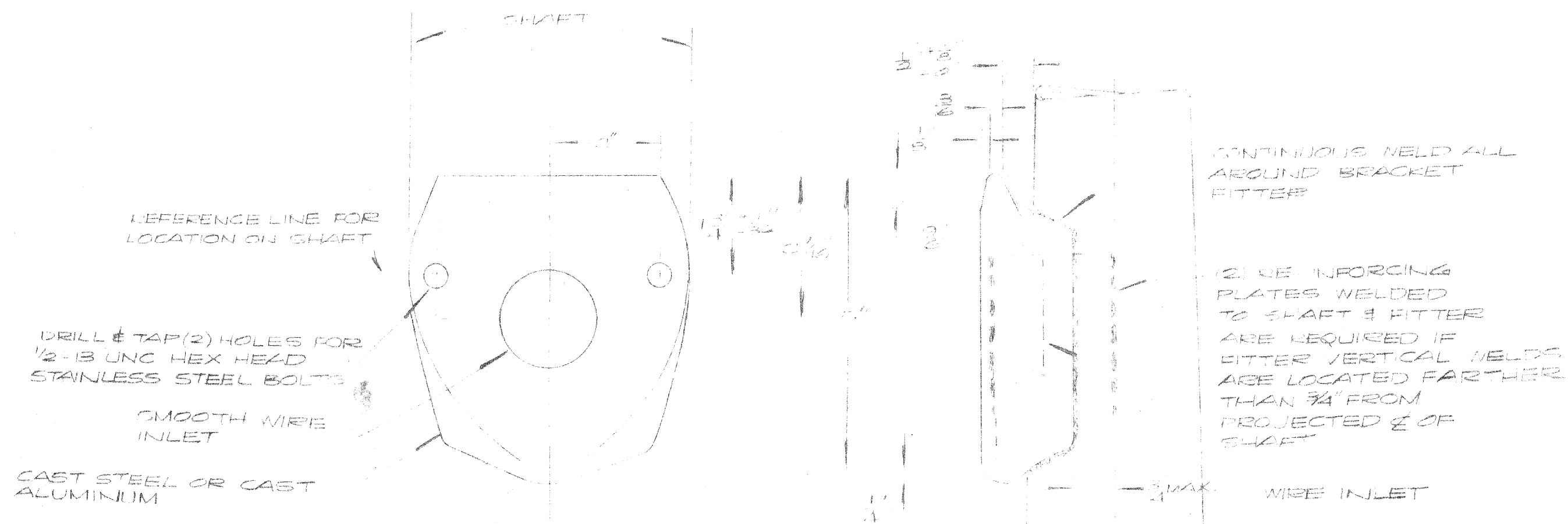
SQUAD BOSS	
DRAWN BY	
TRACED BY	
CHECKED BY	
SHEET 35 OF 43	



BRACKET TYPE :



LENGTH AS REQD FOR FULL ENGAGEMENT OF THREADS
 (4) 5/8" CARRIAGE BOLTS, 11 THDS./IN WITH HEX NUTS AND LOCK WASHERS FURNISHED WITH EACH CLAMP



SHAFT MODIFICATION 'A'

NOTES
 CLAMP & BRACKET FINISH TO BE SAME AS STANDARD FINISH

BRACKET ACCESSORY 'A'

NOT TO SCALE

DETAIL OF CLAMP-ON STREET LIGHTING BRACKETS

DATE	DESCRIPTION	CHKD. BY

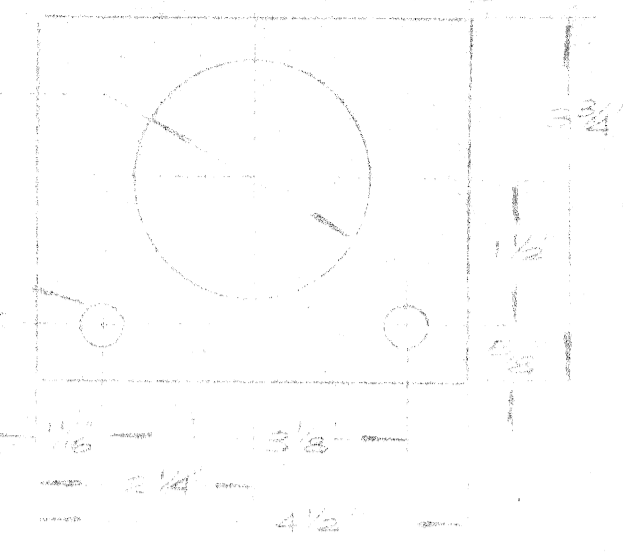
DRAWN BY
 R. M. K.
 CHECKED BY
 G. H.
 APPROVED BY
 J. H.

PUBLIC LIGHTING COMMISSION
 CITY OF DETROIT

36 OF 43
 FILE NO. 35-0202
 SHEET NO. 1 of 1
 DATE 2-14-72

DETAIL A
STOCK 5/8" MILD STEEL

ALL BRACKET 2" DIA HOLES
OR ARE TURNED TO
ADJUST TO FIT WITH
2" DIA HOLES IN
ENLARGED DETAIL



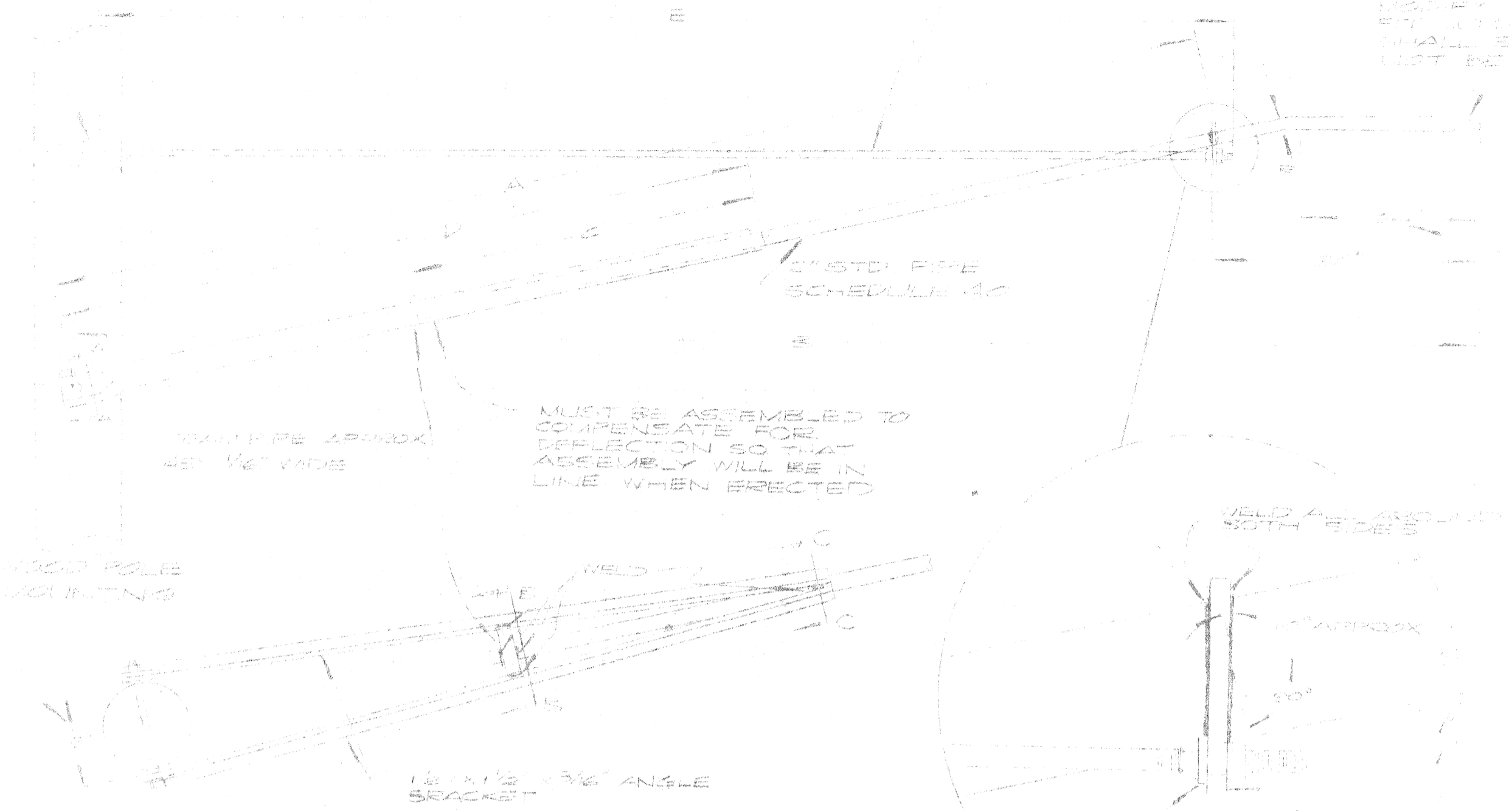
5/8" DIA TRUSS RODS
2 REQ WITH 5" THREADED
LENGTH BOTH ENDS

SEMS MUST BE IN THE BRACKET
PLANE THROUGH THE LINE OF NUTS
SO THAT END OF ROD WILL NOT
BE REFLECTED TO THE SIDE

WASHERS MUST BE PLACED ON BOTH
ENDS OF TRUSS RODS. WASHERS
SHALL BE 7" LONG AND 5/8" DIA
MUST BE DEFORMABLE

LEAVE 3" CLEARANCE BETWEEN
WASHERS IF NEEDED FOR
THE WASHERS TO BE
EASILY REMOVED

WHEN MOVEMENT IS ANTICIPATED
OR EXCESSIVE LOADS ARE APPLIED
WASHERS SHOULD BE REPLACED BY
HEAVY DUTY WASHERS

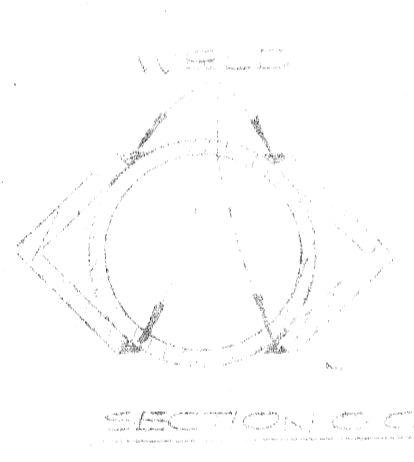
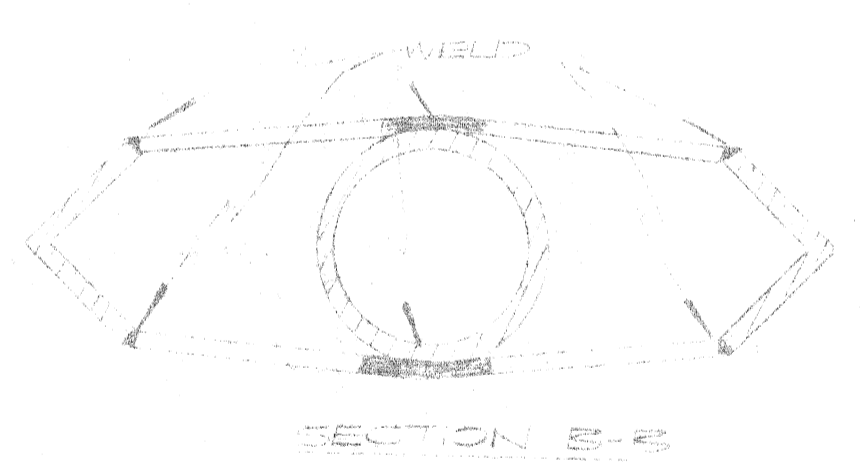
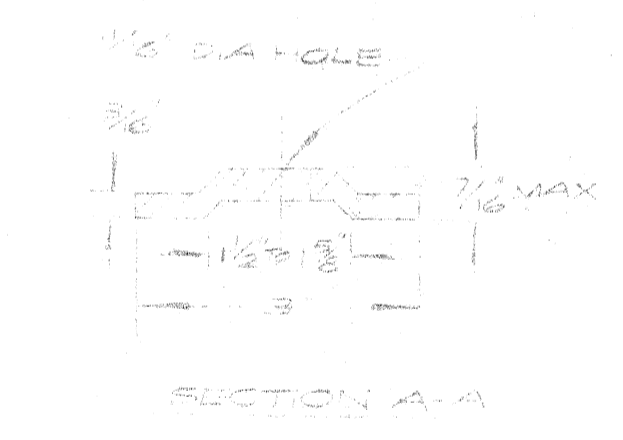


THIS DRAWING IS FOR THE
DESIGN OF THE BRACKET
AND DOES NOT INCLUDE
THE DESIGN OF THE
WOOD POLE OR THE
FOUNDATION FOR THE
WOOD POLE

MUST BE ASSEMBLED TO COMPENSATE FOR DEFLECTION SO THAT ASSEMBLY WILL BE IN LINE WHEN ERRECTED

ONE PLATED LOCK WASHER
NUTS AT EACH END
OF ROD USE HEAVY DUTY
NUTS

SEE DETAIL
PLATE IN BRACKET
PLANE PERPENDICULAR
TO THE ROD



STREET LIGHTING BRACKET
A' FRAME TYPE

DIMENSIONS					ROD LENGTH
A	B	C	D	E	
13.4	6.0	48"	30"	12.4	
12.5	16.0	5.0	8.0	5.2	
7.3	20.0	6.0	10.0	11.5	

DETAILS OF STREET LIGHTING BRACKETS

DATE	REVISION	BY

37 OF 43

FILE NO. 35-0203
SHEET NO. 1051
DATE 2-14-72

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

APPROVED BY: [Signature]
DATE: [Signature]

INITIAL POINTS ON TOP OF CABINET
FURNISHED WITH CABINET.

2" CONDUIT TOP EXTENSION AND
QUALITY OF 3/4" DIA. WIRES TO
AND THE 2" DIA. RIGID CONNECTOR.

USE 1/8" DIA. WATER PROOF
SEAL ON ALL HOLES.

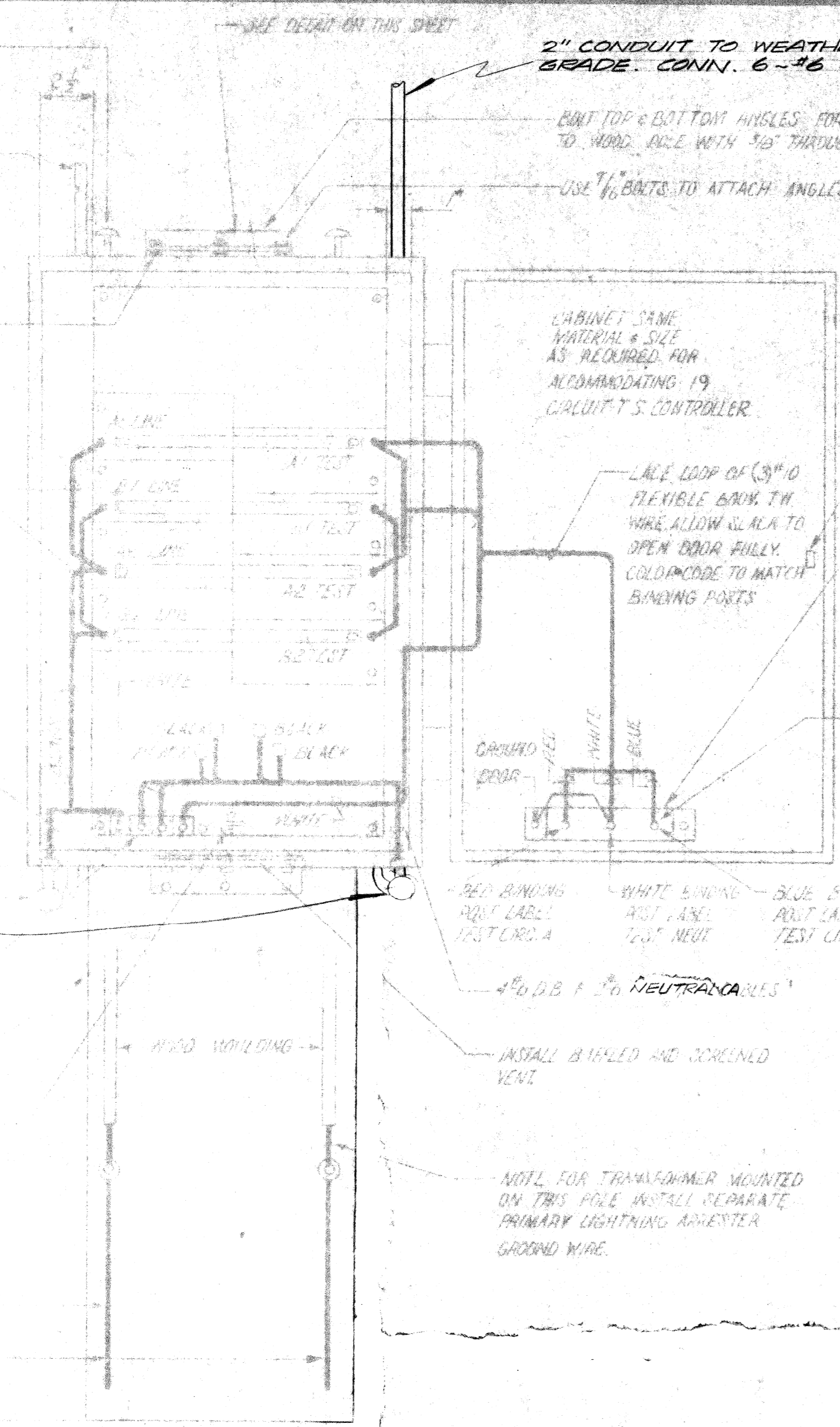
WIRE WINDING TO BE CONNECTED
TO WIRE PANEL INSULATION.

WIRE WINDING TO BE CONNECTED
TO WIRE PANEL INSULATION.

WIRE WINDING TO BE CONNECTED
TO WIRE PANEL INSULATION.

WIRE WINDING TO BE CONNECTED
TO WIRE PANEL INSULATION.

WIRE WINDING TO BE CONNECTED
TO WIRE PANEL INSULATION.



2" CONDUIT TO WEATHERHEAD AT 20' ABOVE
GRADE CONN. 6-#6 CABLES TO TRIPLEX CKTS.

BENT TOP & BOTTOM ANGLES FOR MOUNTING
TO WOOD RAIL WITH 3/8" THROUGH-BOLTS.

USE 1/8" BOLTS TO ATTACH ANGLES TO CABINET.

CABINET SAME
MATERIAL & SIZE
AS REQUIRED FOR
ACCOMMODATING 19
CIRCUIT'S CONTROLLER.

LACE LOOP OF 3/16" O
FLEXIBLE BRONZE
WIRE ALLOW SLACK TO
OPEN DOOR FULLY.
COLD WIRE TO MATCH
BIRMINGHAM PORTS.

STANDARD
T.S. CABINET
LOCK.

ATTACH STRAP TO
CLEAR BY INTERNAL
RESTRICTIONS. SEE
DETAIL "A" ON THIS SHEET.

BODY WIRE CONNECTORS
(INSULATED FROM GROUND)

INTERLOCK PLATE
BOTH BRANCHES
MAY BE IN "OFF"
POSITION BUT ONLY
ONE BE ON "ON" OR
"OFF" POSITION.
A2-B2 NEUTRAL
A1-B1 NEUTRAL

RED BUNDLING
POST LABEL
TEST CIRCUIT A

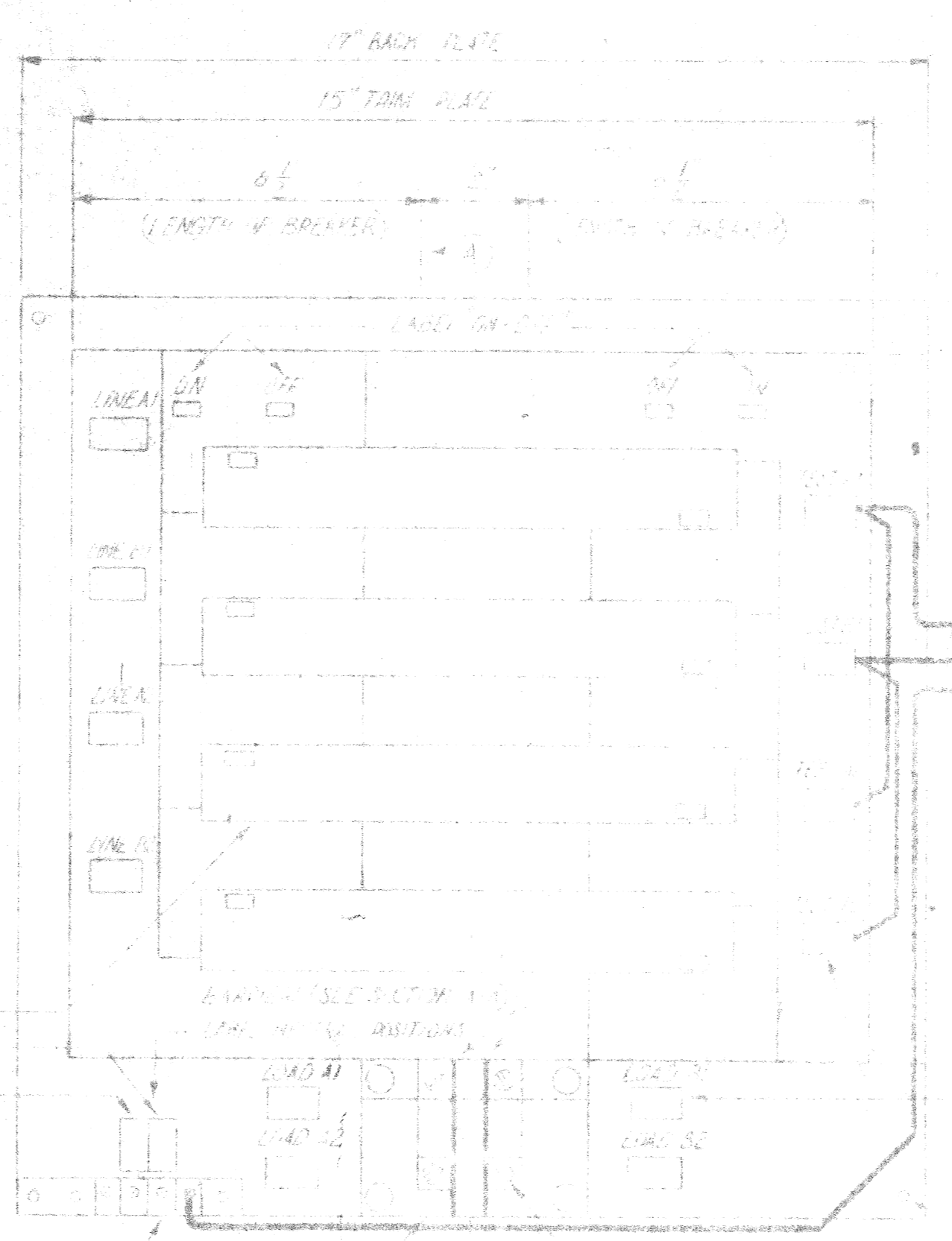
WHITE BUNDLING
POST LABEL
TEST NEUTRAL

BLUE BUNDLING
POST LABEL
TEST CIRCUIT B

4#0 D.B. 1 #6 NEUTRAL CABLES

INSTALL BLENDED AND SCREENED
VENT.

NOTE FOR TRANSFORMER MOUNTED
ON THIS POLE INSTALL SEPARATE
PRIMARY LIGHTING ARRESTER
GROUND WIRE.



NEUTRAL BAR WITH
4 CLAMP TERMINALS #6-#10

INTERLOCK PLATE
BOTH BRANCHES
MAY BE IN "OFF"
POSITION BUT ONLY
ONE BE ON "ON" OR
"OFF" POSITION.
A2-B2 NEUTRAL
A1-B1 NEUTRAL

INTERLOCK PLATE
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POSITION BUT ONLY
ONE BE ON "ON" OR
"OFF" POSITION.

INTERLOCK PLATE
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INTERLOCK PLATE
BOTH BRANCHES
MAY BE IN "OFF"
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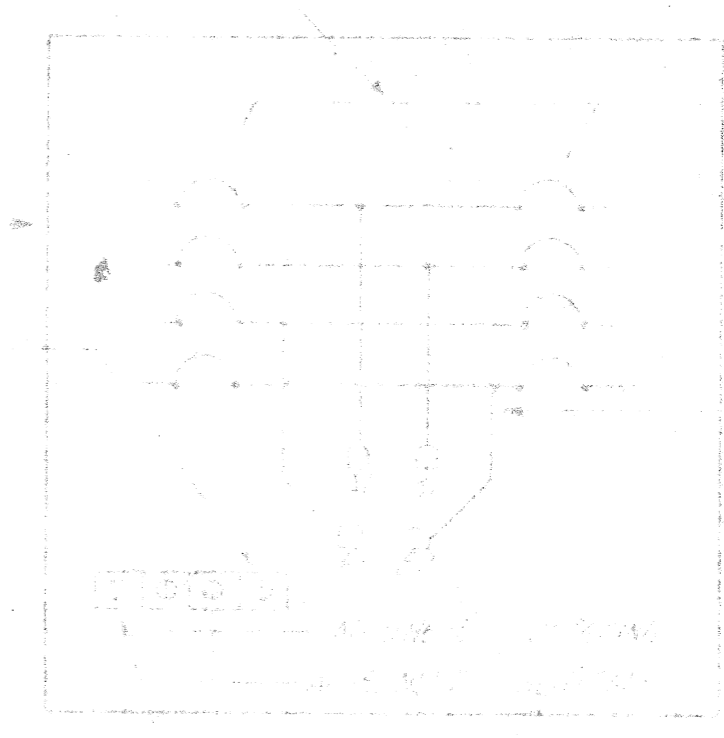
INTERLOCK PLATE
BOTH BRANCHES
MAY BE IN "OFF"
POSITION BUT ONLY
ONE BE ON "ON" OR
"OFF" POSITION.

INTERLOCK PLATE
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INTERLOCK PLATE
BOTH BRANCHES
MAY BE IN "OFF"
POSITION BUT ONLY
ONE BE ON "ON" OR
"OFF" POSITION.



TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

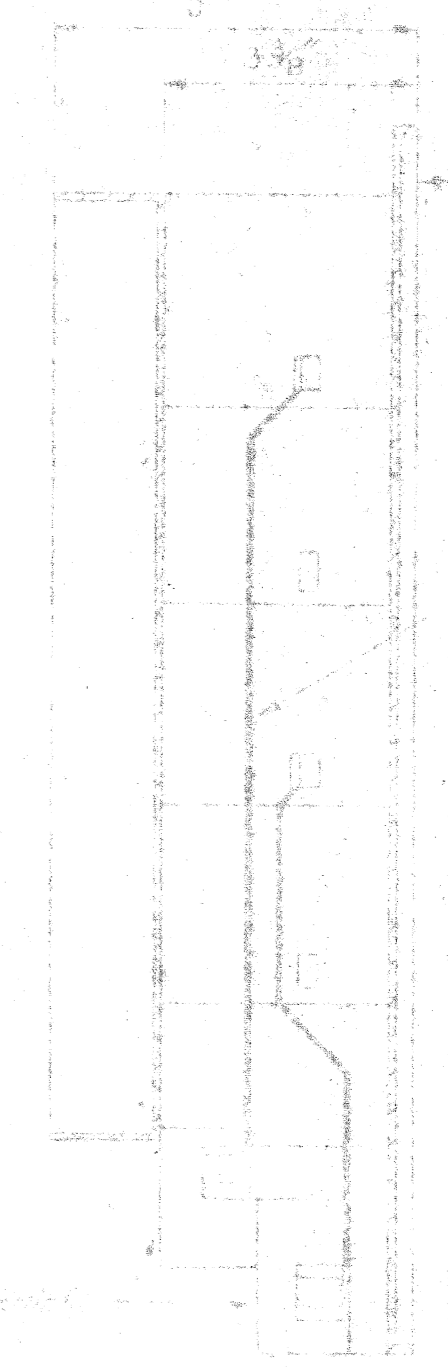
TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

TEST DEVICE
WIRING

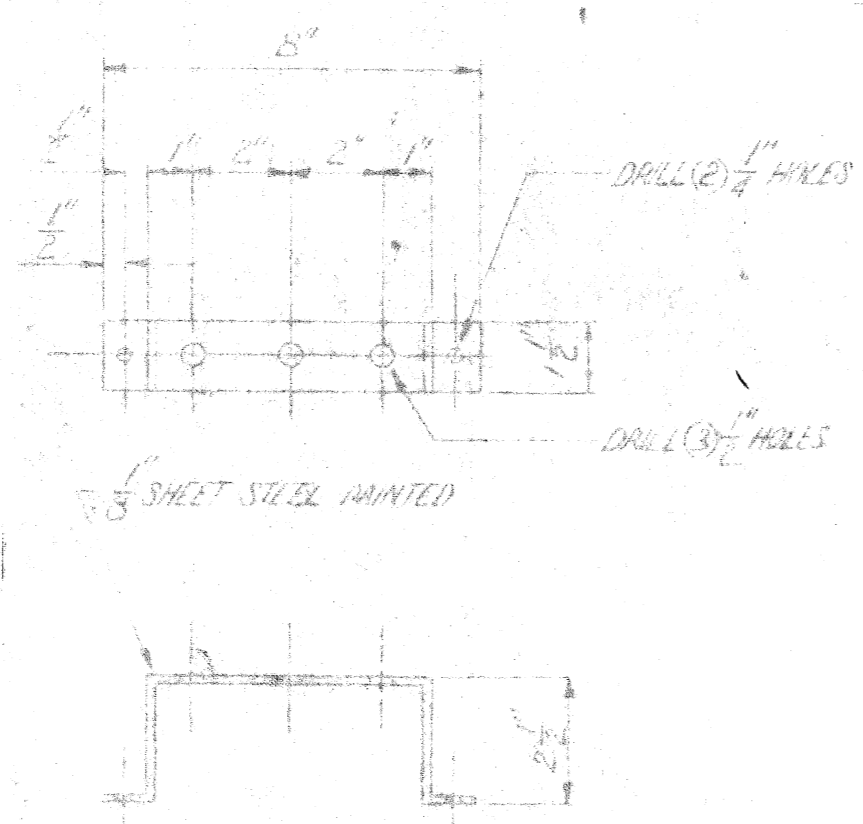
TEST DEVICE
WIRING



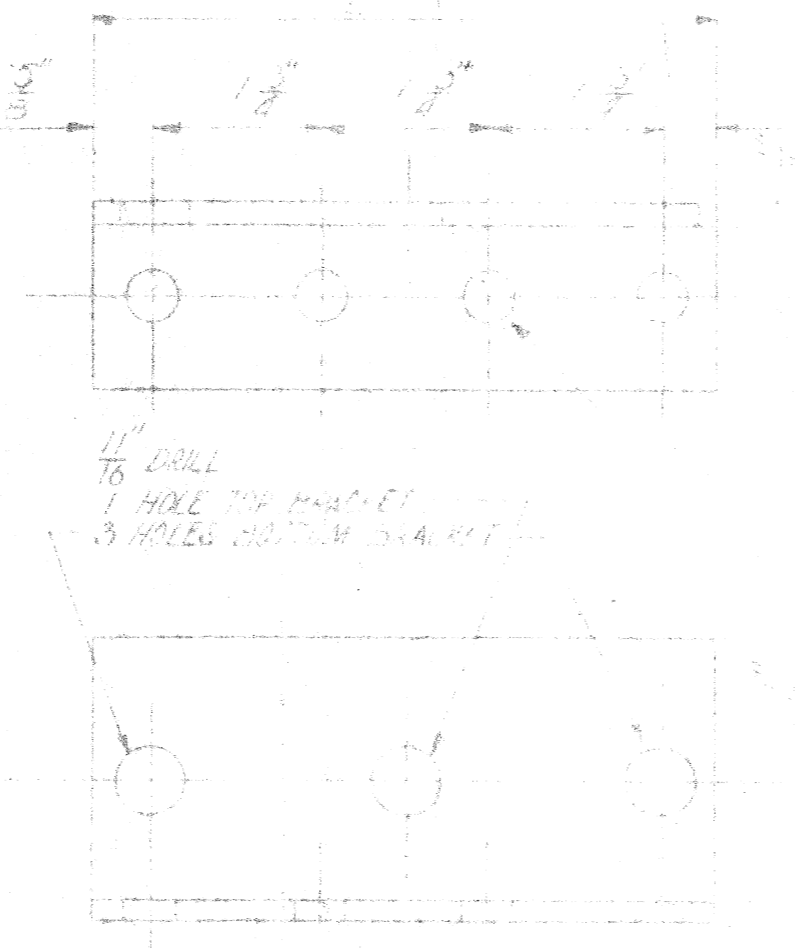
ALL HOLES FOR FASTENING
PARTS TO BACK PLATE
SHALL HAVE WIPES AND
GREA WASHERS.

SEE WIRE TRACING OVER ALL
WIRE WINDING TO BE CONNECTED
TO WIRE PANEL INSULATION.

MULTIPLE ST. L.T.C. CONTROL AND TEST ASSEMBLY
IN REAR DOOR ENCLOSURE
N.T.S.



DETAIL "A"
N.T.S.

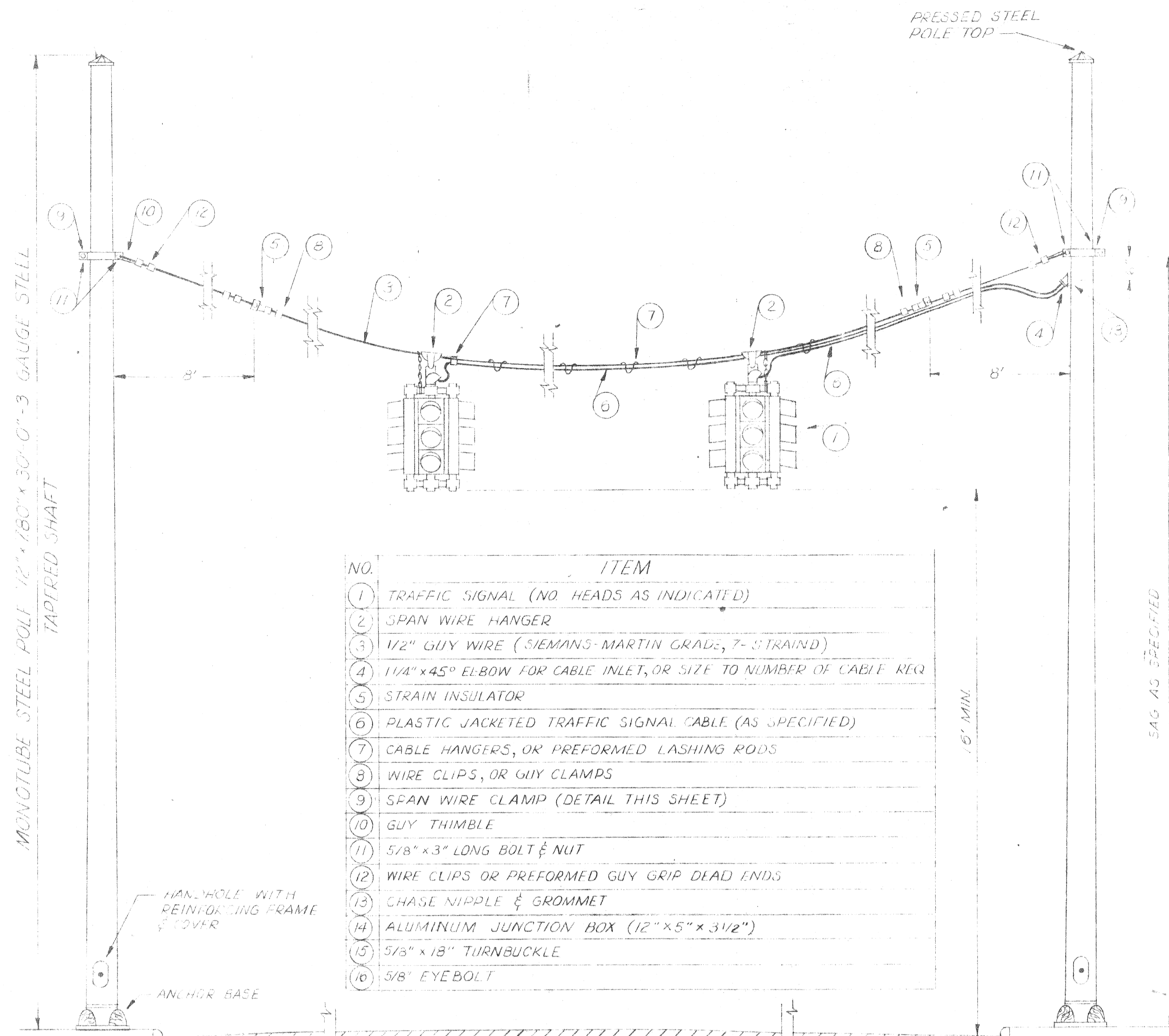


DETAIL "B"
N.T.S.

GALVANIZED ANGLE IRON
MOUNTING BRACKETS
N.T.S.

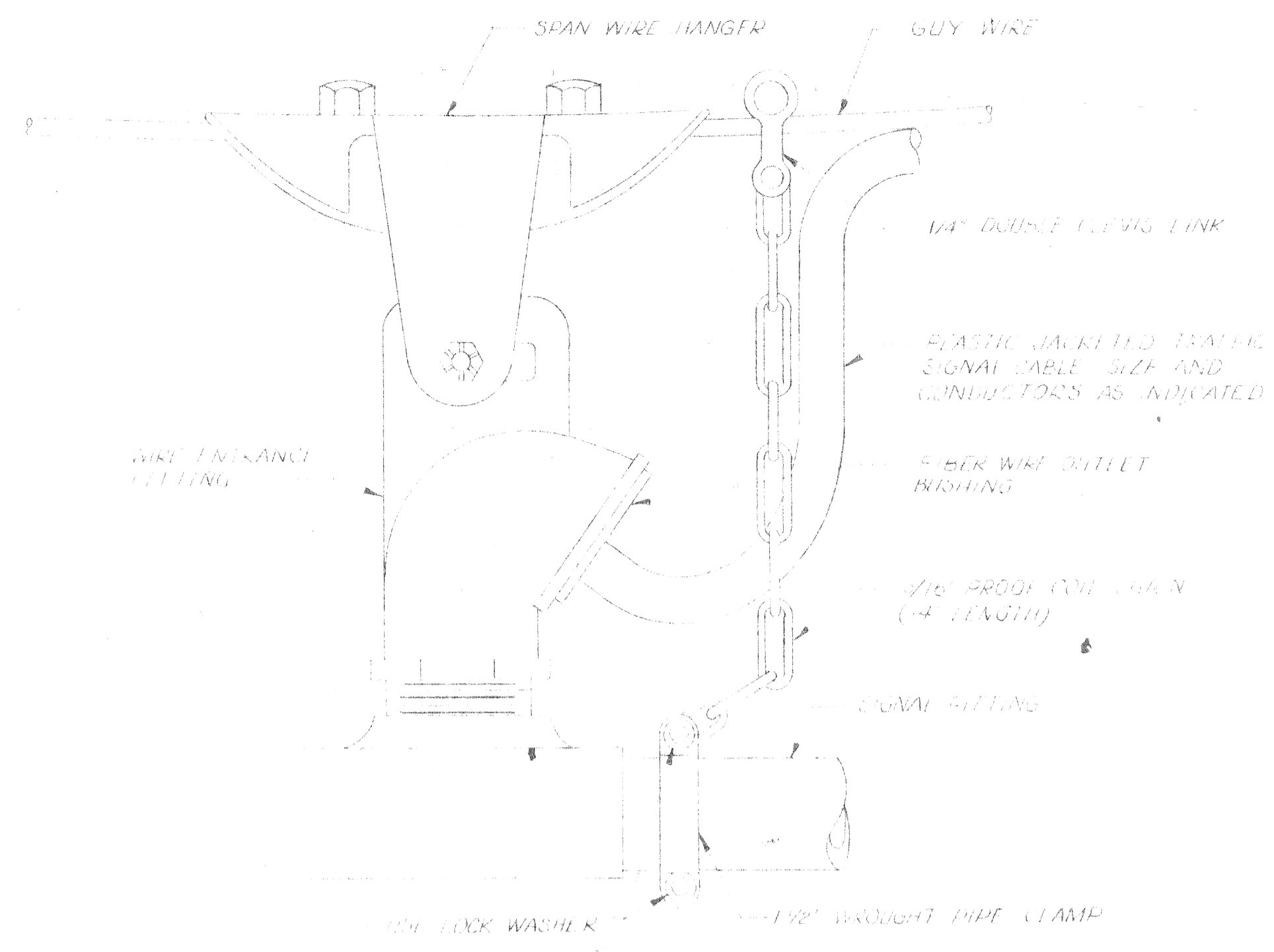
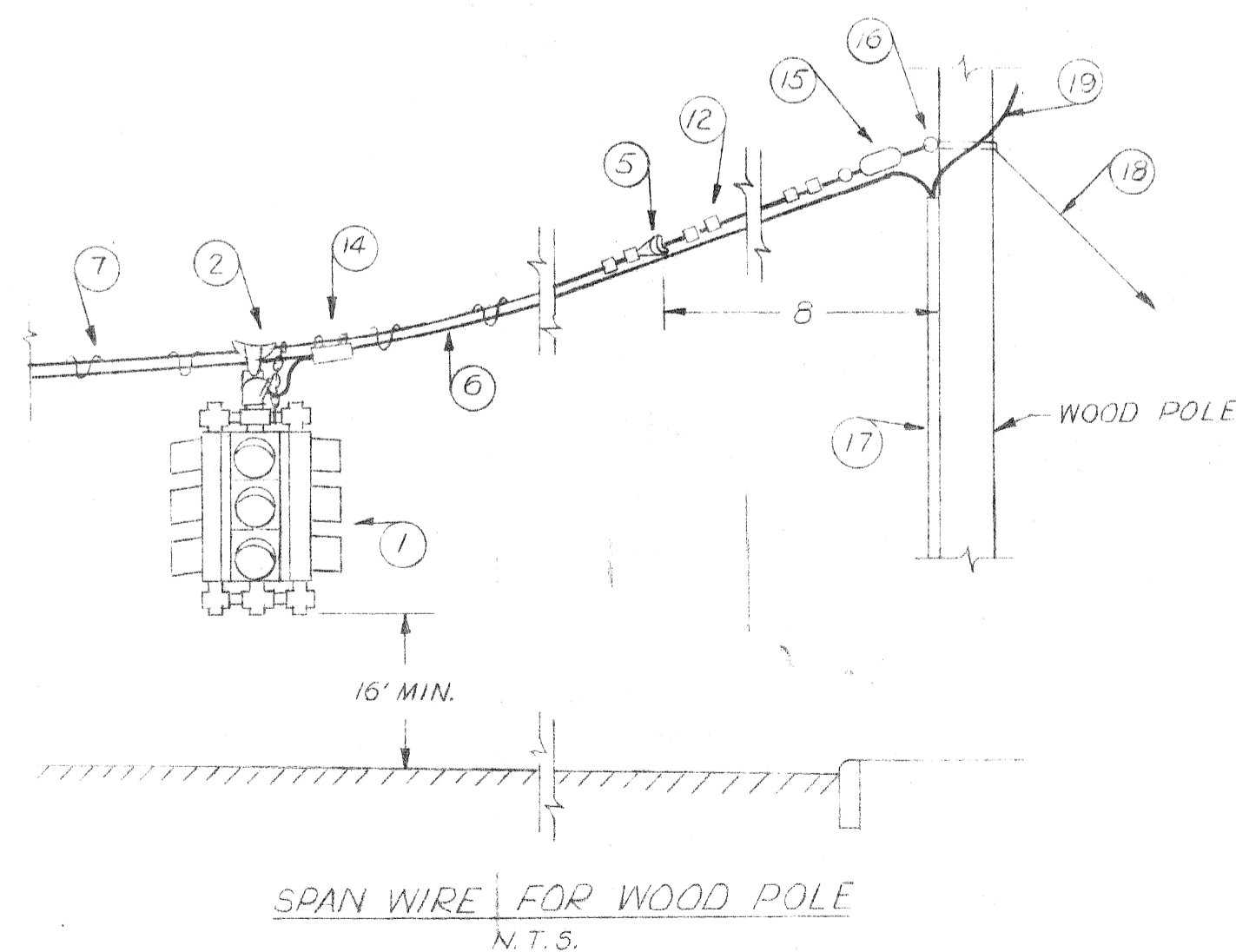
DETAIL OF MULTIPLE STREET
LIGHTING CONTROL CABINET

CITY OF DENVER PUBLIC LIGHTING COMMISSION	
DATE 2-14-72	BY [Signature]
PROJECT NO. 42-0495	SCALE [Blank]



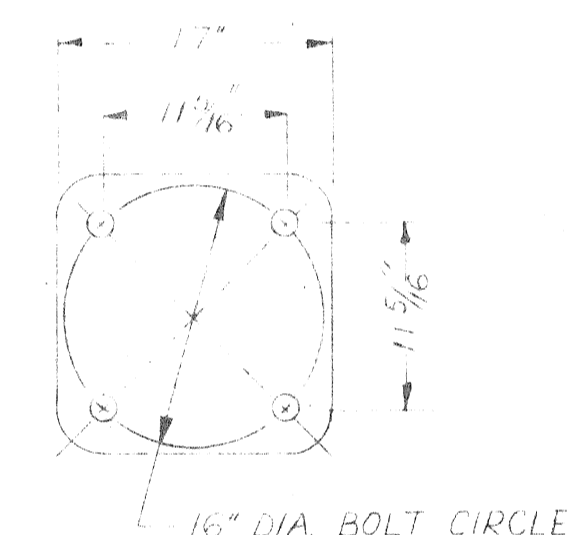
NO.	ITEM
1	TRAFFIC SIGNAL (NO HEADS AS INDICATED)
2	SPAN WIRE HANGER
3	1/2" GUY WIRE (SIEMENS-MARTIN GRADE, 7-STRAND)
4	1/4" x 45° ELBOW FOR CABLE INLET, OR SIZE TO NUMBER OF CABLE REQ
5	STRAIN INSULATOR
6	PLASTIC JACKETED TRAFFIC SIGNAL CABLE (AS SPECIFIED)
7	CABLE HANGERS, OR PREFORMED LASHING RODS
8	WIRE CLIPS, OR GUY CLAMPS
9	SPAN WIRE CLAMP (DETAIL THIS SHEET)
10	GUY THIMBLE
11	5/8" x 3" LONG BOLT & NUT
12	WIRE CLIPS OR PREFORMED GUY GRIP DEAD ENDS
13	CHASE NIPPLE & GROMMET
14	ALUMINUM JUNCTION BOX (12" x 5" x 3 1/2")
15	5/8" x 18" TURNBUCKLE
16	5/8" EYEBOLT

17	WOOD MOULDING, OR SPLIT FIBRE DUCT
18	1/2" GUY, GUARD & ANCHOR
19	2IC * 8 CABLE FOR SERVICE (WHEN REQ'D)

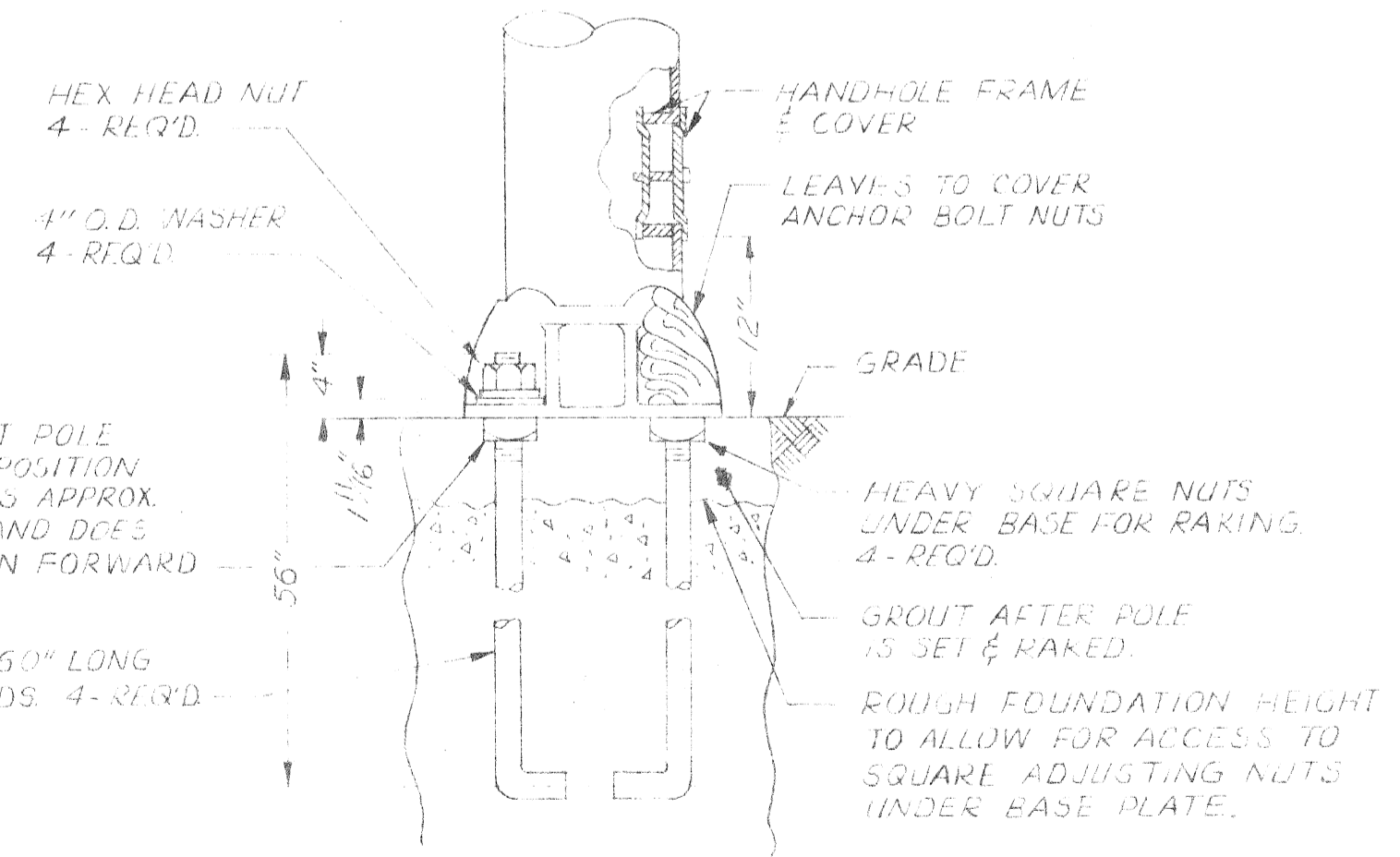


NOTE: USE BALANCE ADJUSTER WHERE NECESSARY SO SIGNALS HANG VERTICALLY

SPAN WIRE FITTING & WEATHER CAP (NO SCALE)

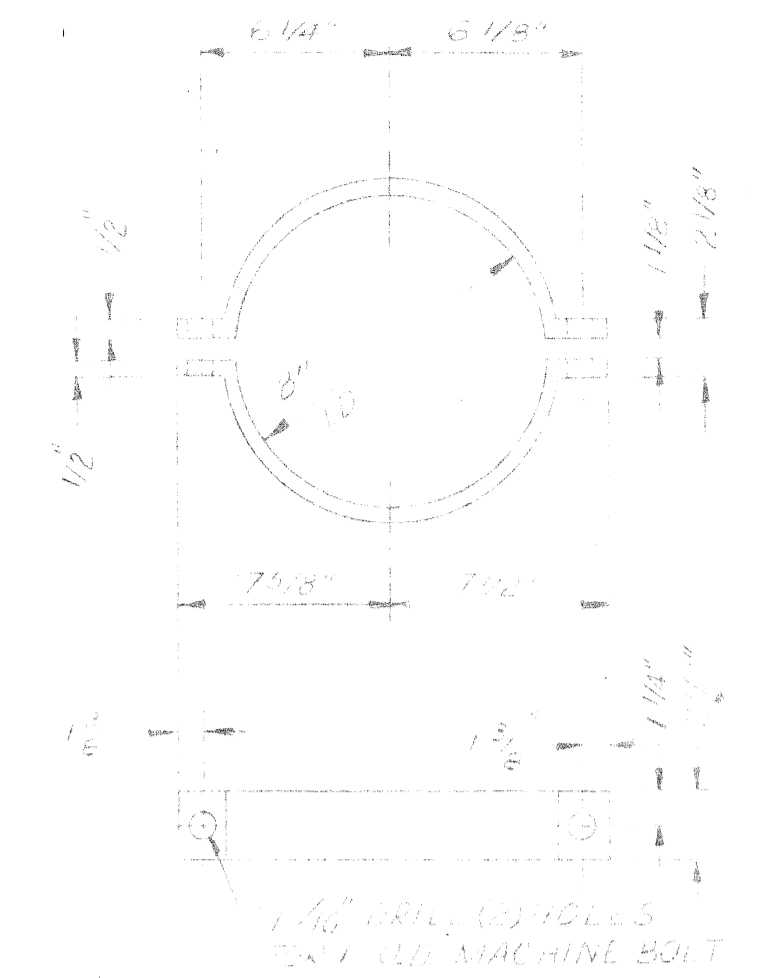


ANCHOR BOLT PLAN

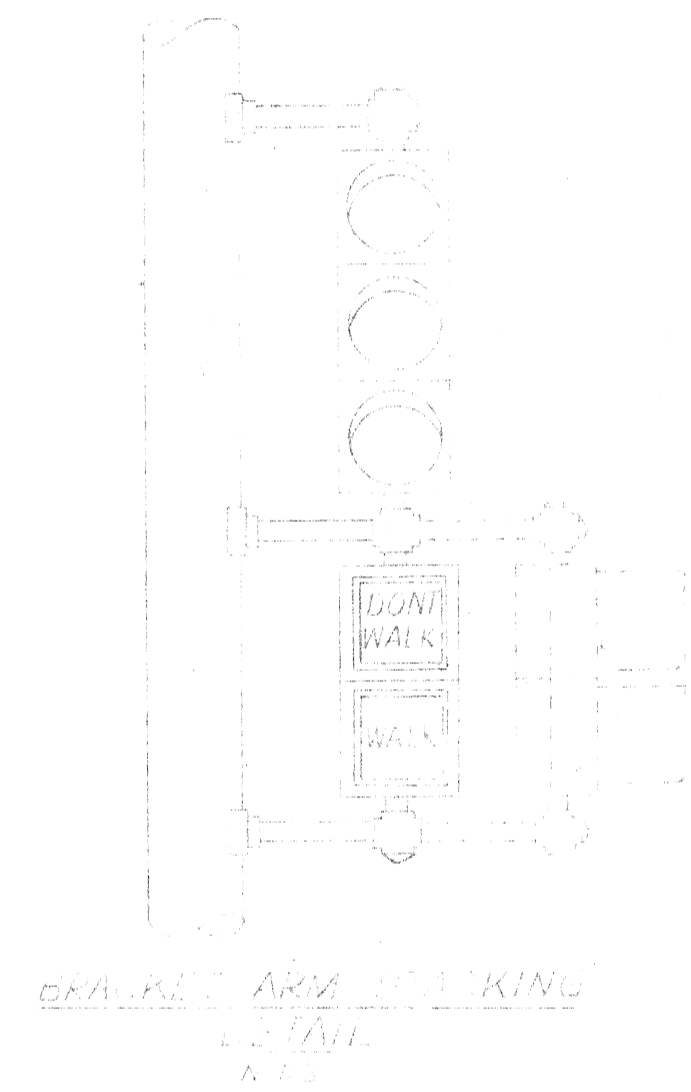


ADJUST NUTS SO THAT POLE CAN BE RAKED TO A POSITION WHERE TOP OF POLE IS APPROX IN LINE WITH BASE AND DOES NOT APPEAR TO LEAN FORWARD

BOLT LAYOUT FOR SPAN-WIRE FOUNDATION



SPAN WIRE CLAMP N.E. WATER ALLOYED GALVANIZED STEEL (ARCHITECTURAL FINISH) HEAVY PIPE (SEE FIG. 298 OR EQUIVALENT)



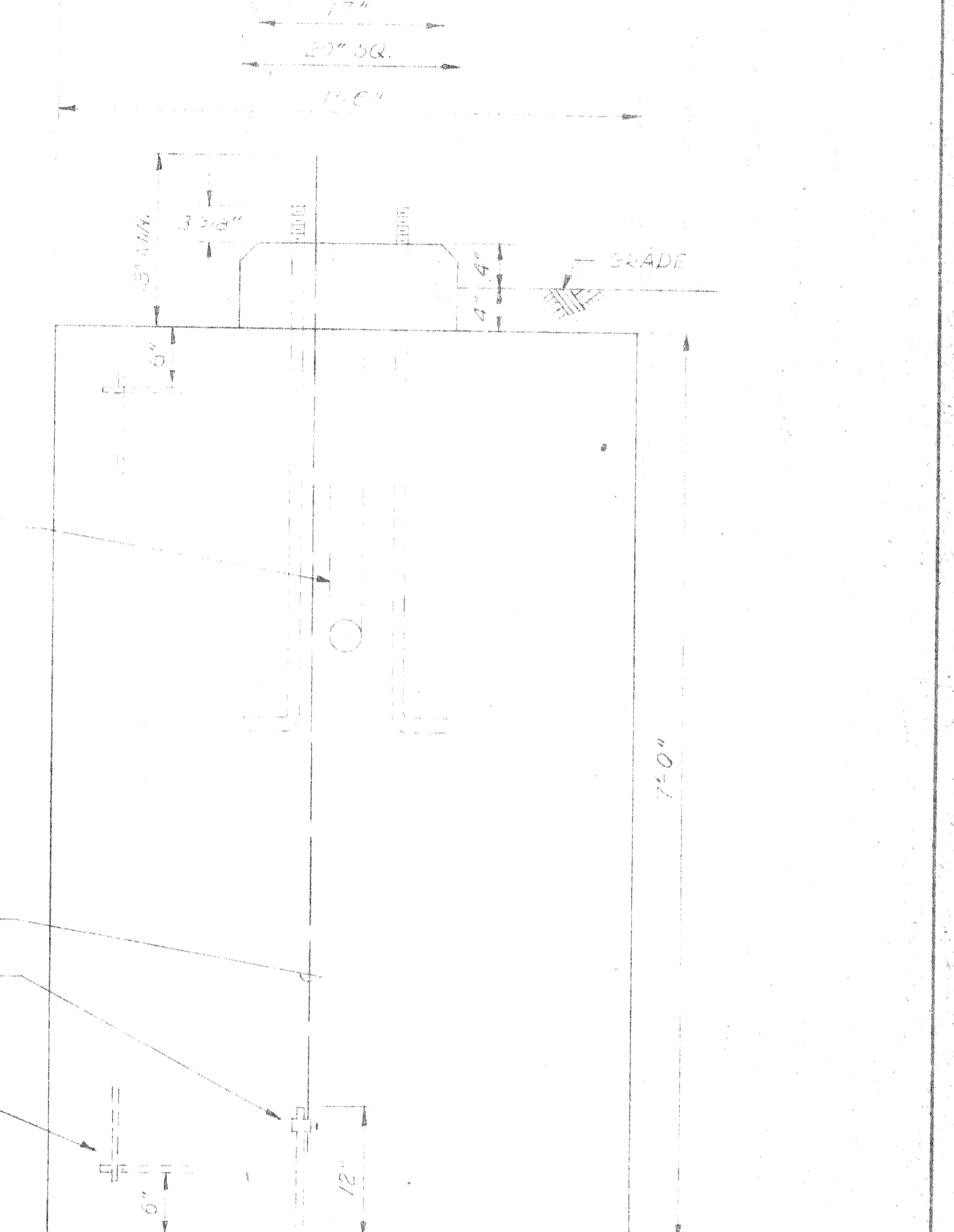
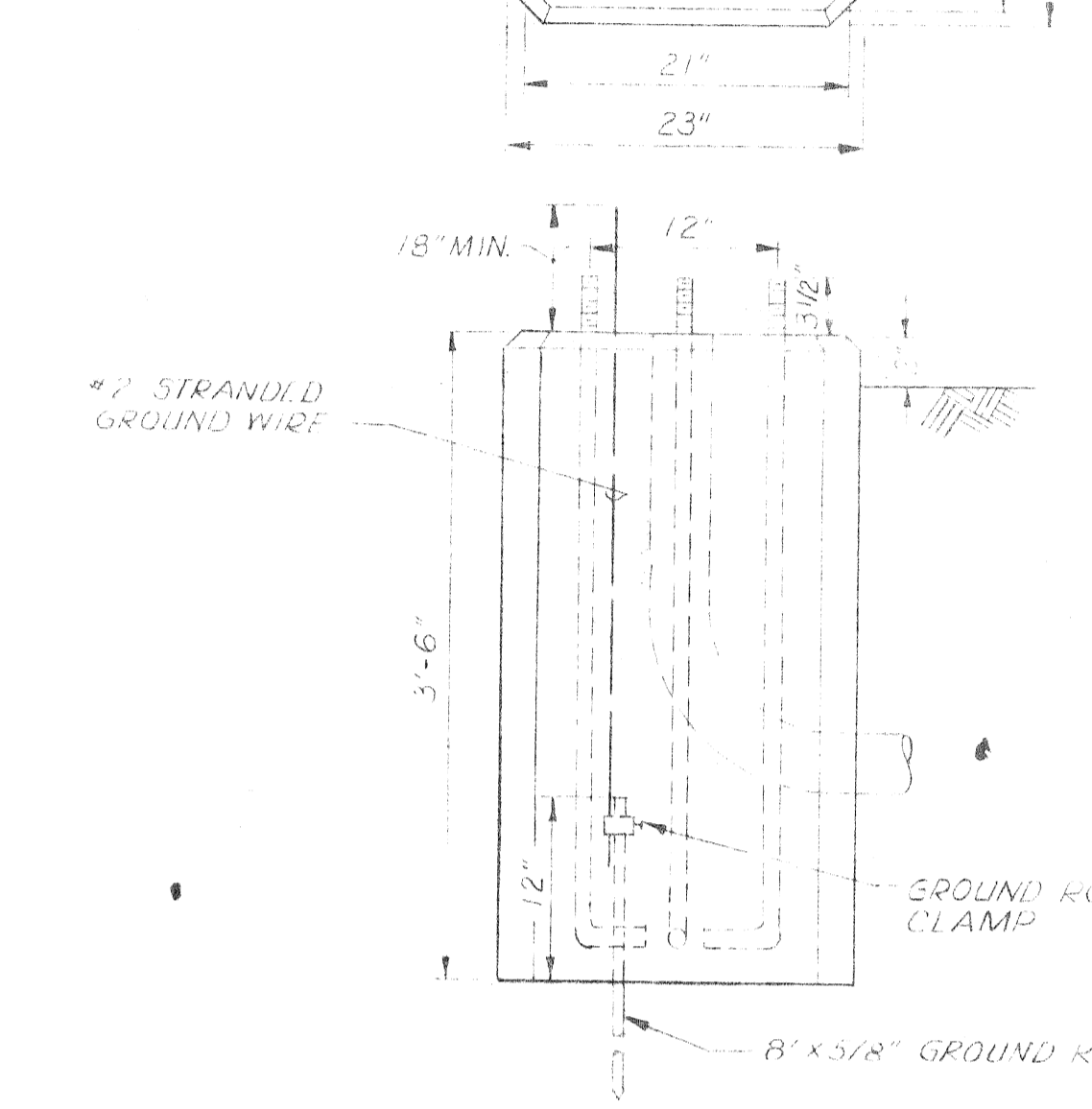
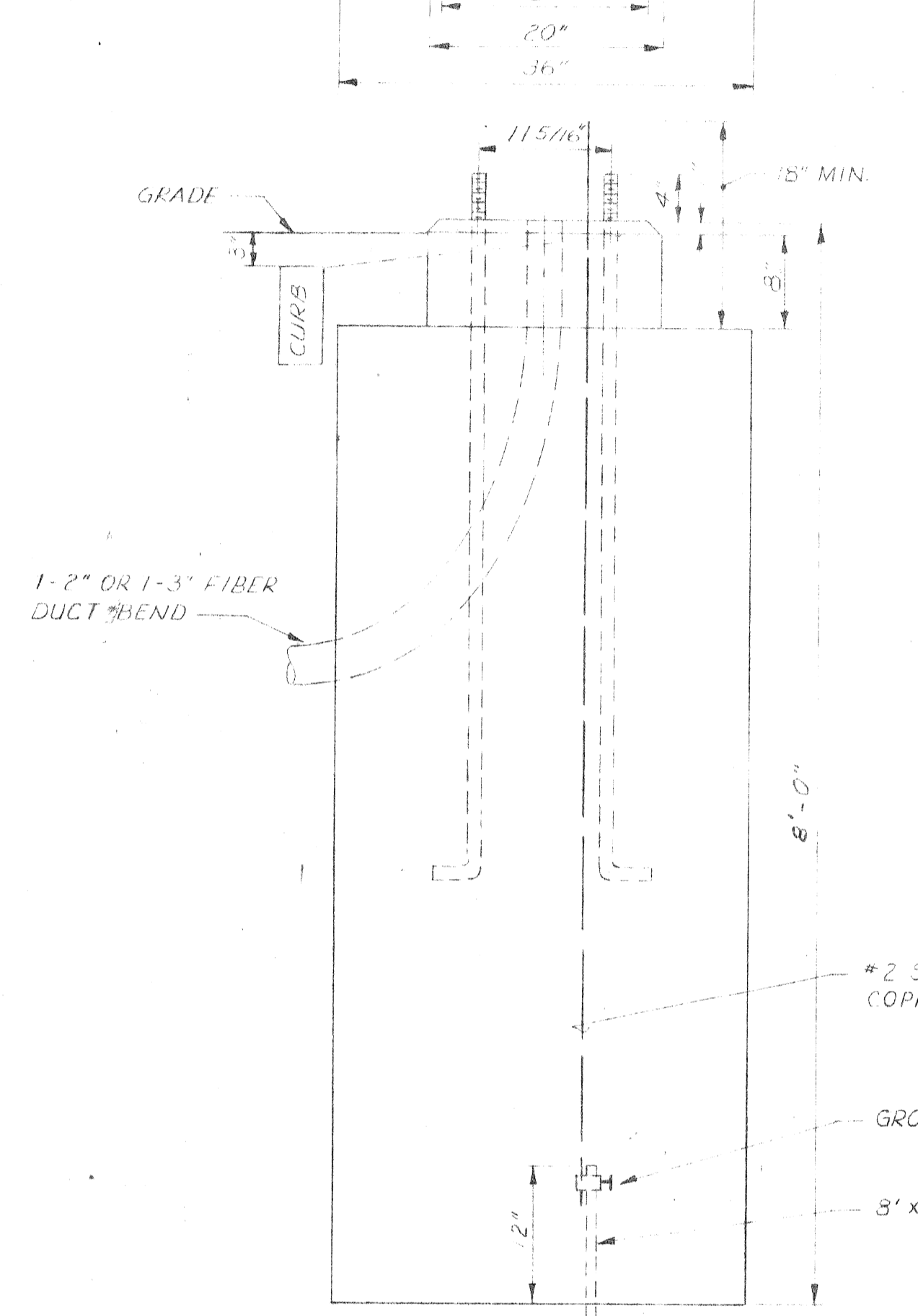
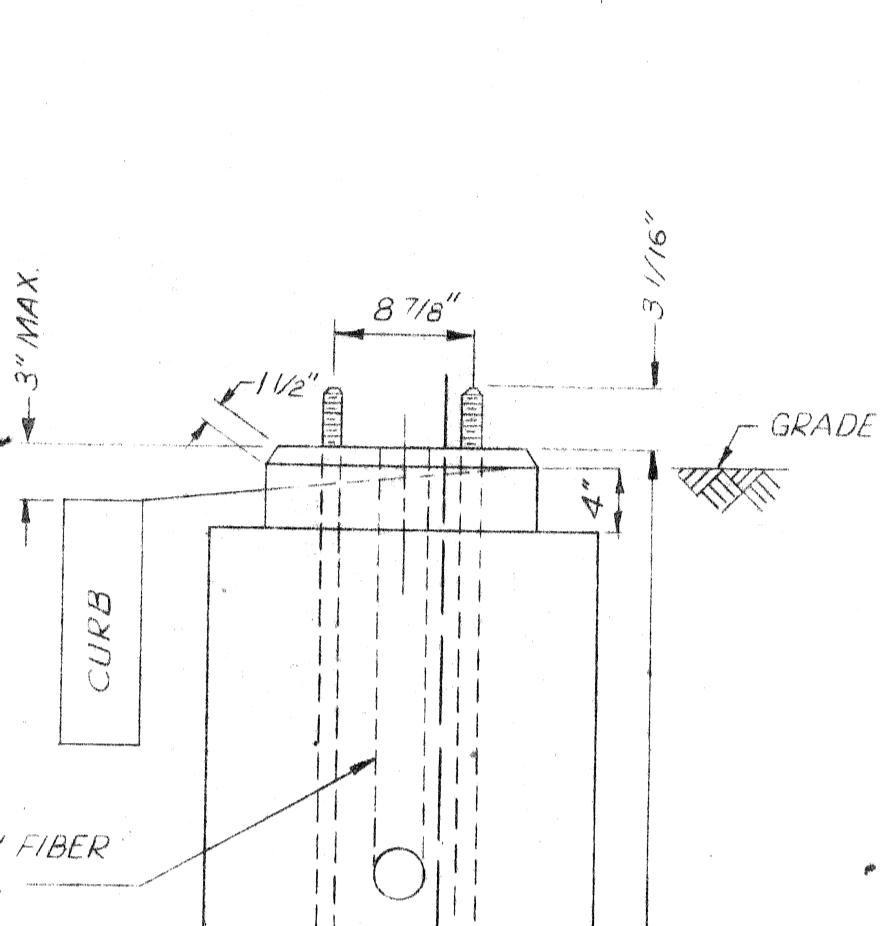
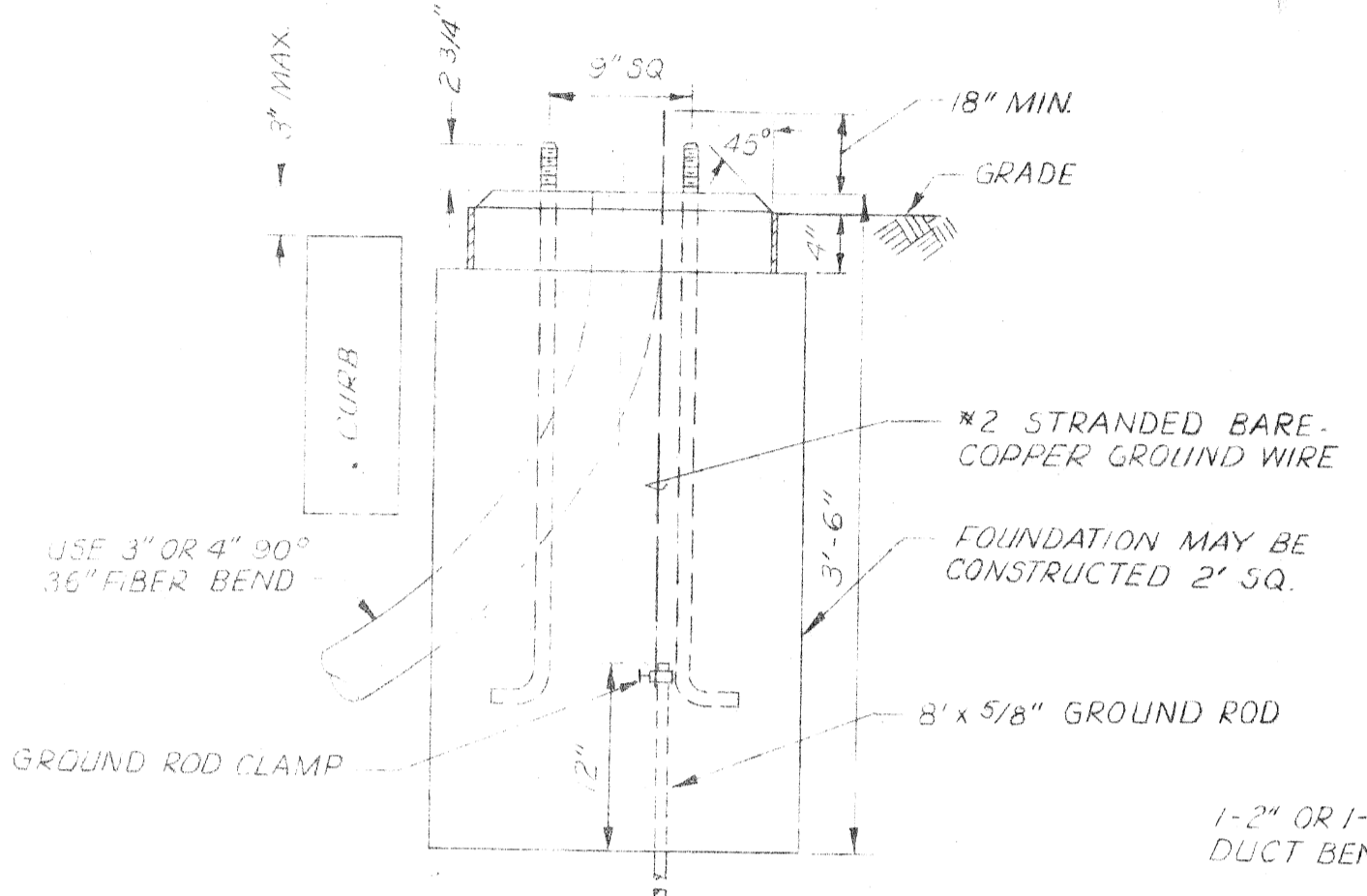
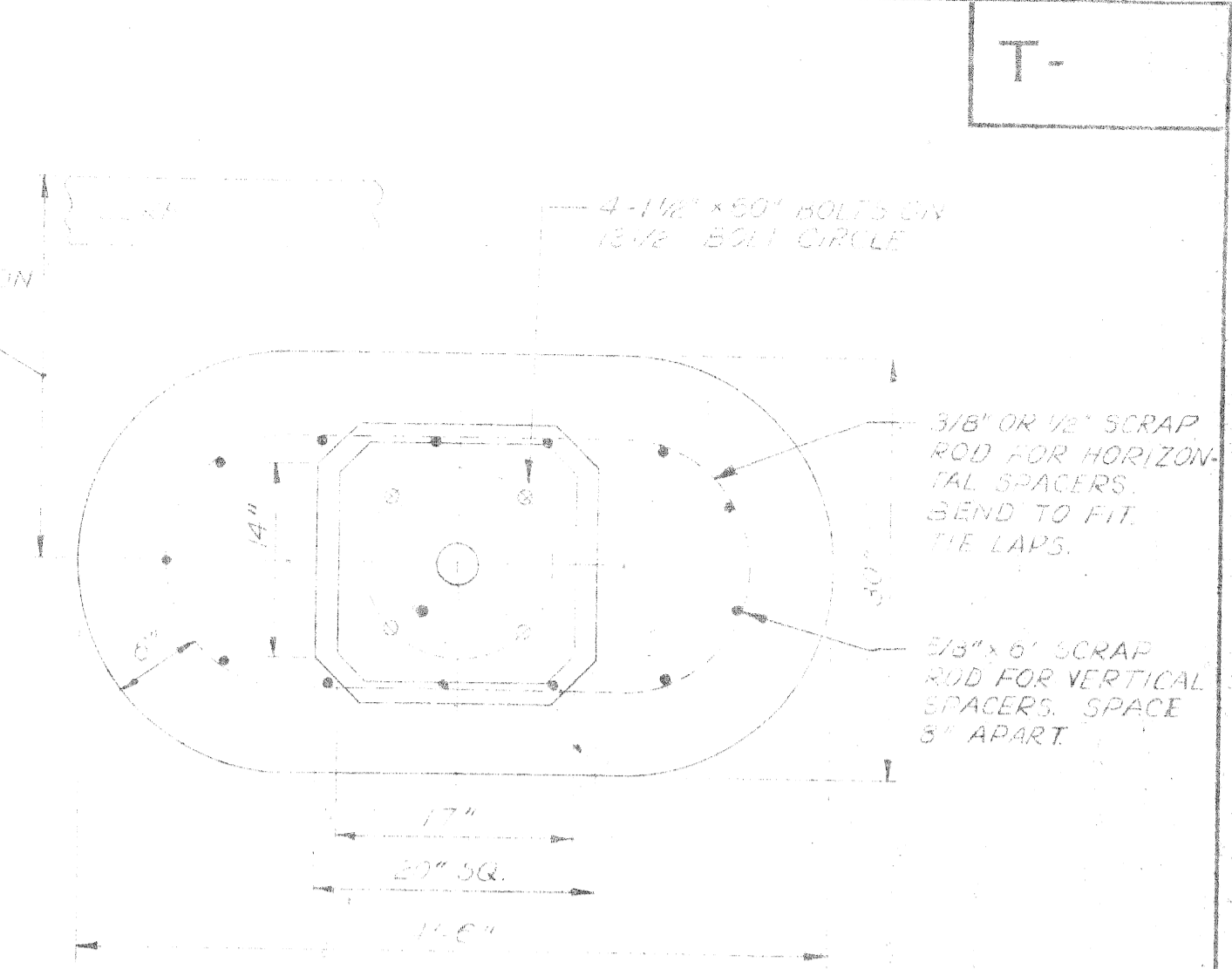
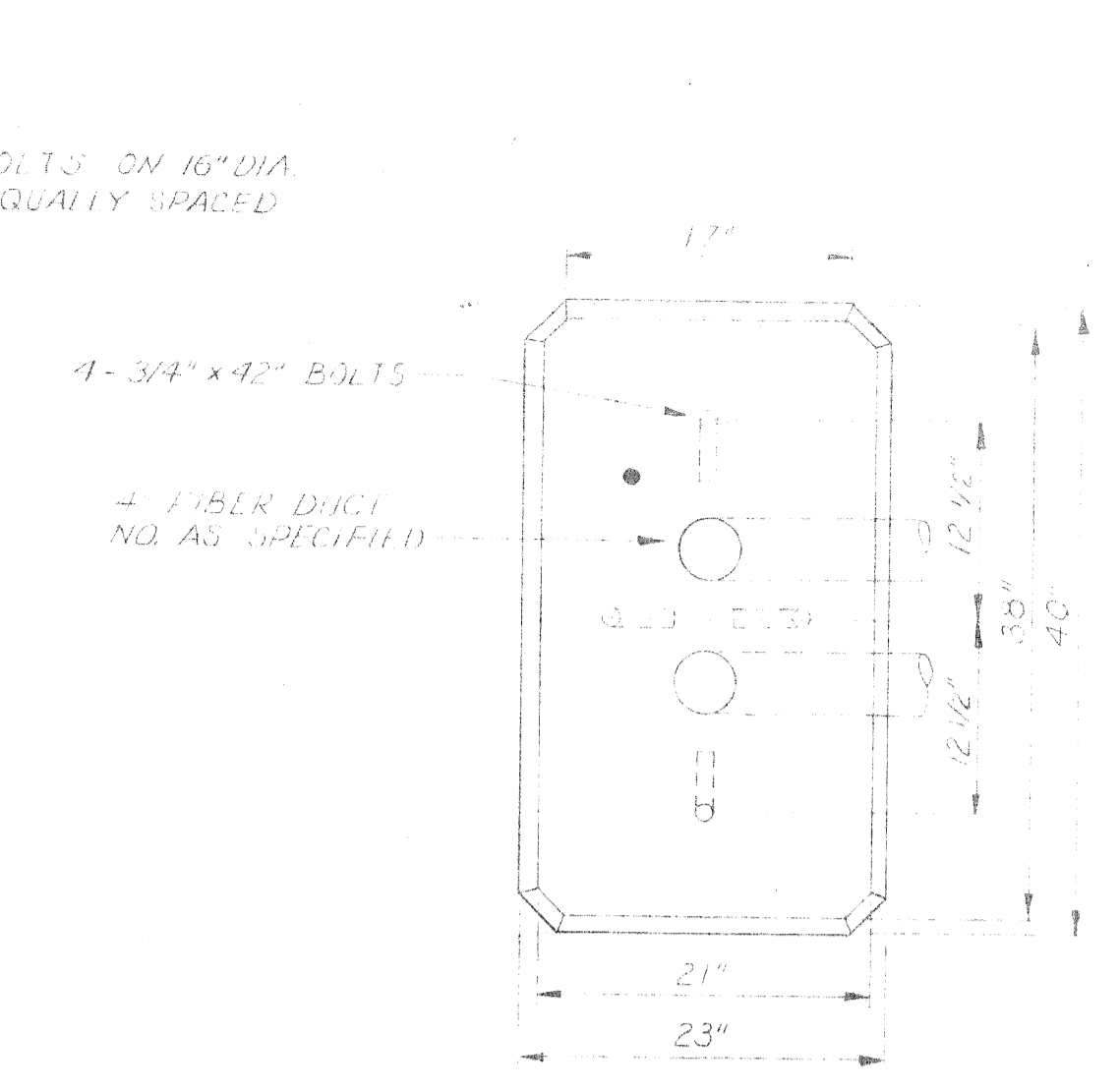
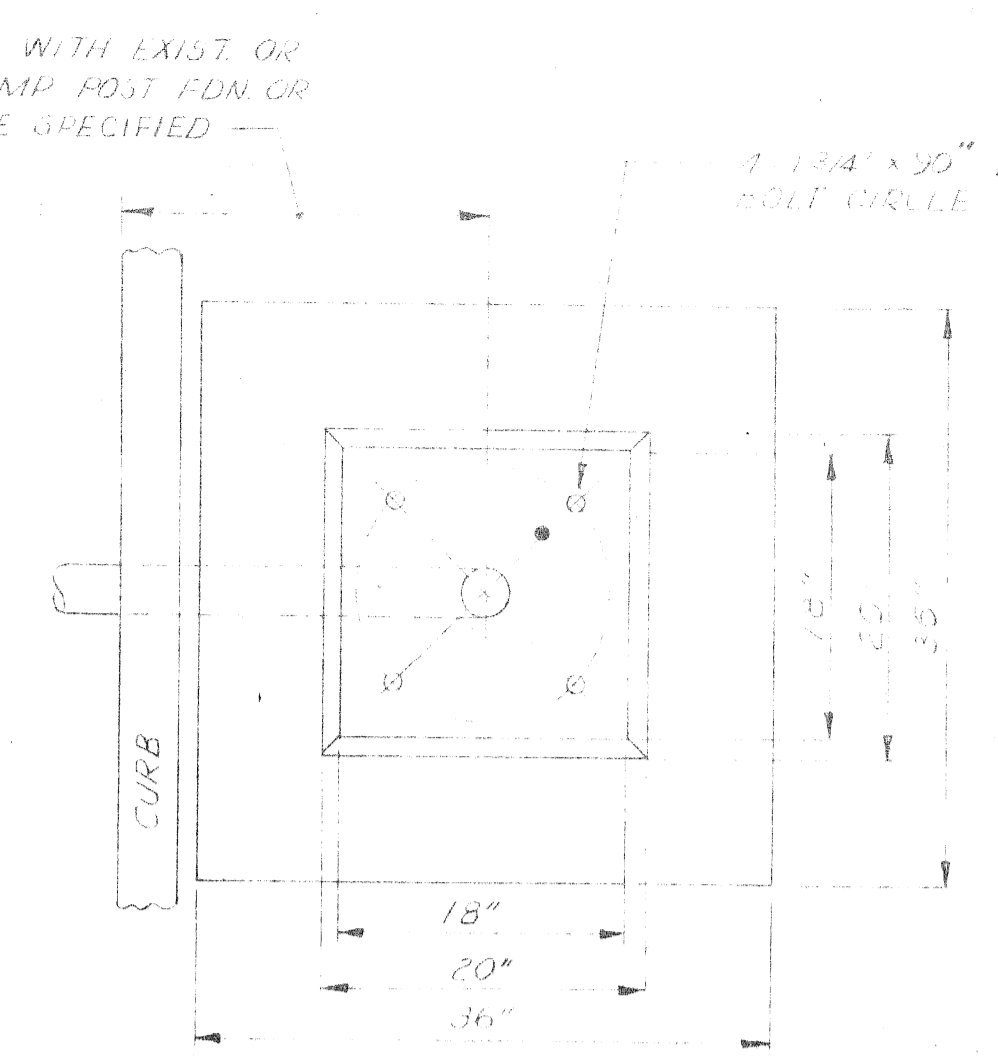
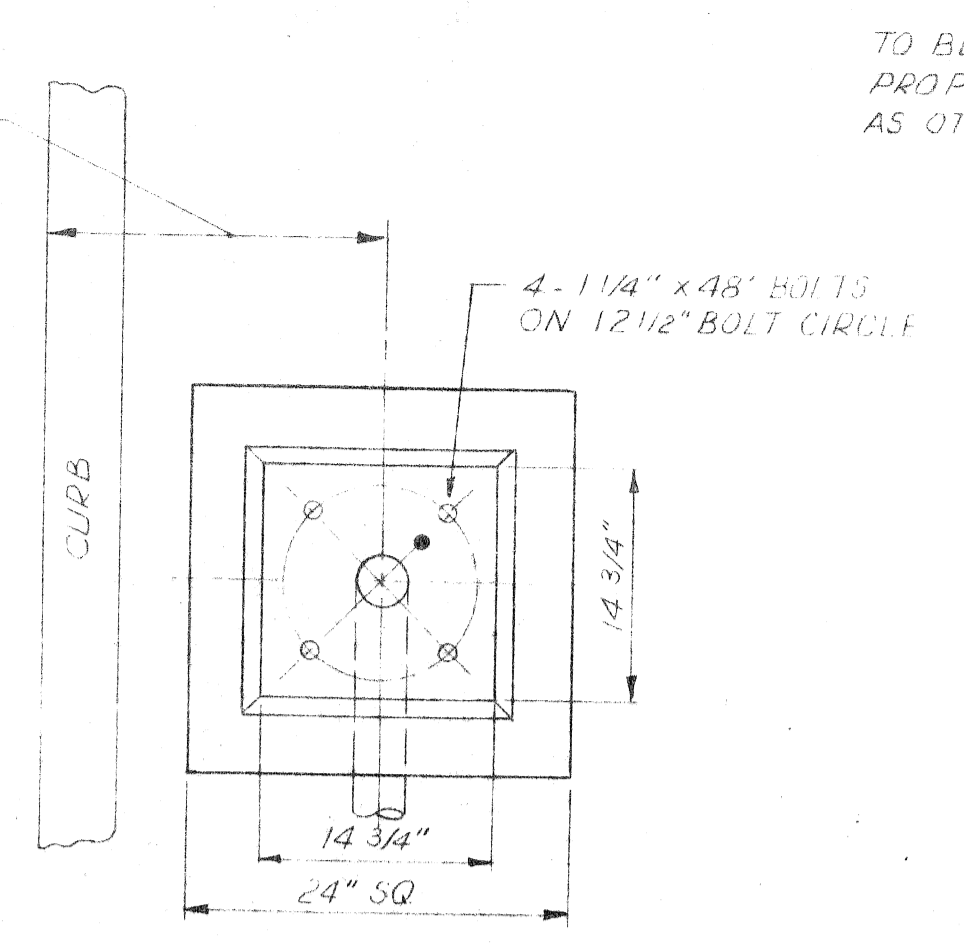
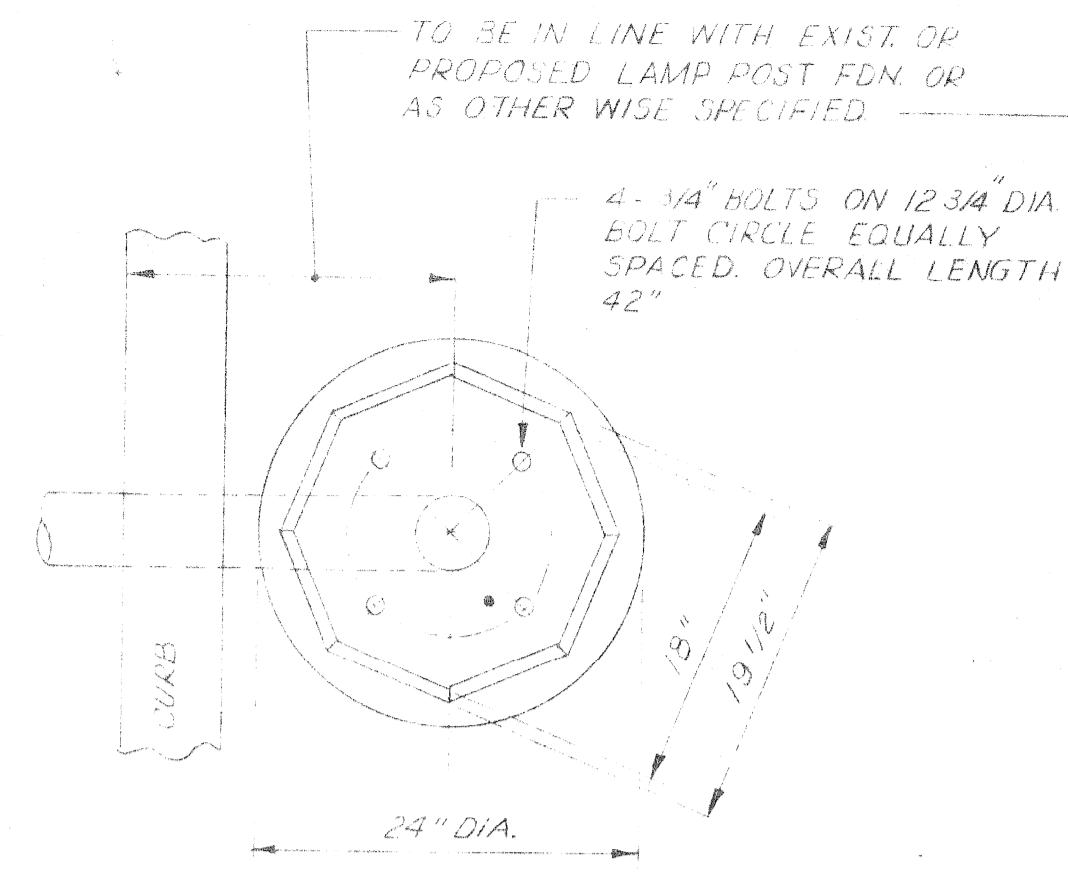
GRAVEL AREA MARKING (NO SCALE)

DATE	DESCRIPTION	CHKD. BY

P. L. C. DETAILS
TRAFFIC SIGNALS

DRAWN BY	FILE NO.
CHECKED BY	52-2096
APPROVED BY	SHEET NO.
	1
	DATE
	1-10-72

PUBLIC LIGHTING
COMMISSION
CITY OF DETROIT



FOUNDATION FOR OCTAGON BASE PEDESTAL FOR TRAFFIC SIGNALS OR CONTROLLER

FOUNDATION FOR BASE MOUNTED CONTROLLER

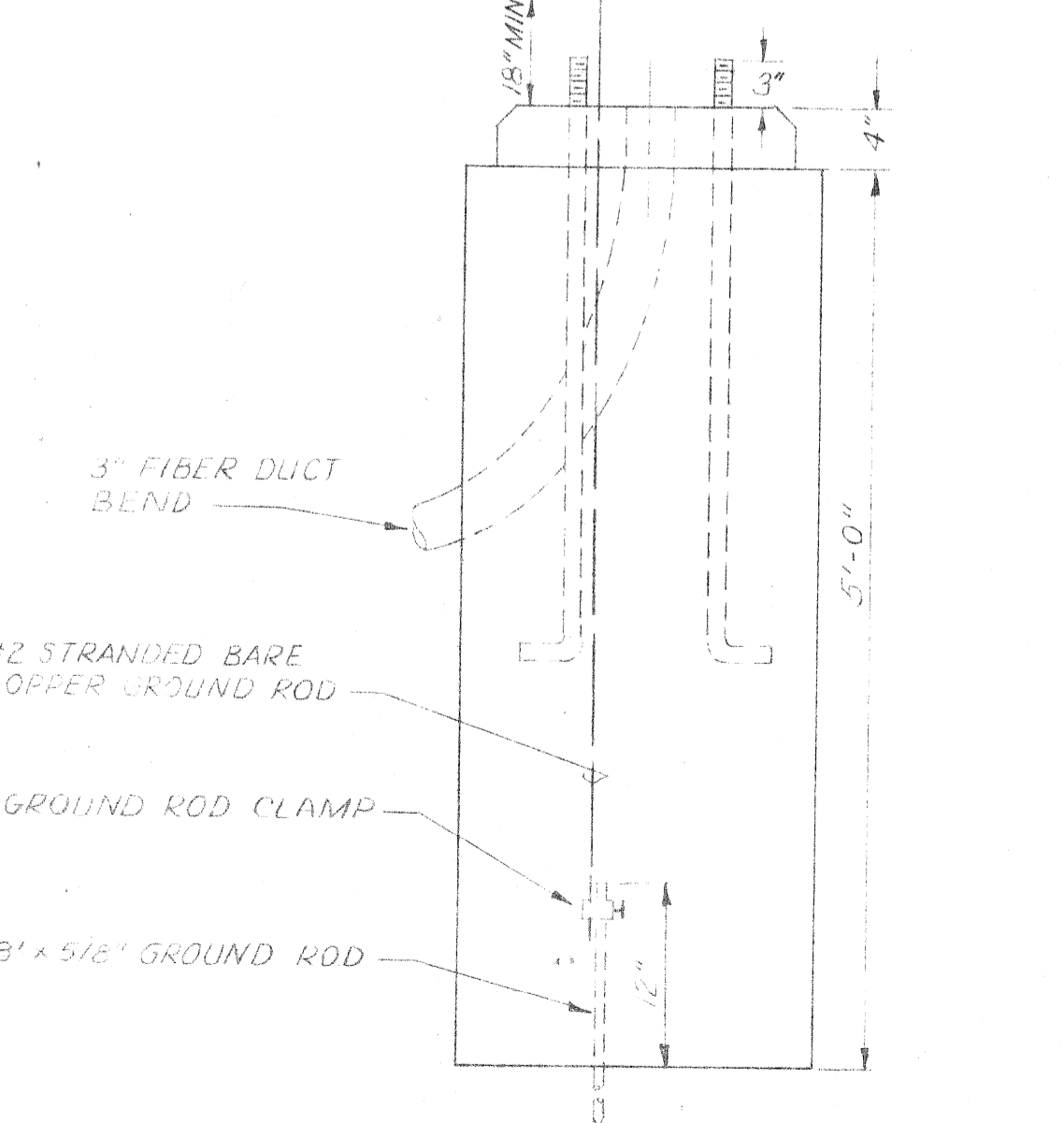
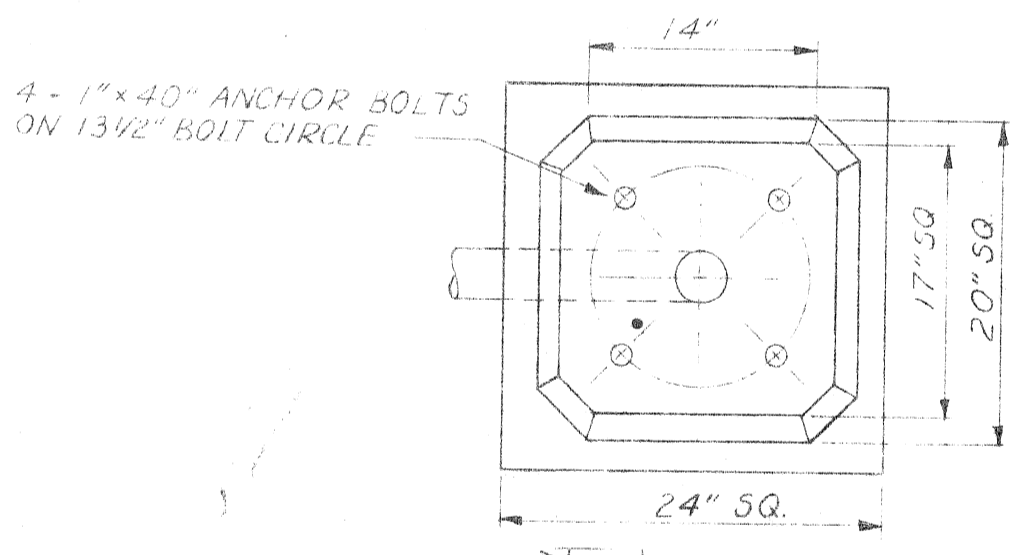
MAST ARM STANDARD FOUNDATION 20FT & 25FT. GUY ROD TYPE ONLY

FOUNDATION FOR 30 FT STRAIN POLE

FOUNDATION FOR MAST ARM AND COMBINATION STANDARD FOR TRUSS TYPE T.S. MAST ARM

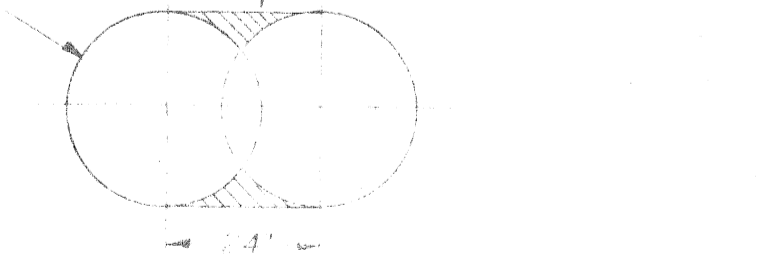
NOTE: ENTIRE EXCAVATION FOR FOUNDATION TO BE FILLED WITH CONCRETE. FORMS SHALL NOT BE USED (EXCEPT FOR FDN TOP) WITHOUT APPROVAL OF PROJECT ENGR.

NOTE: USE SLIGHTLY RUSTED SCRAP RODS. DO NOT USE PAINTED SCRAP RODS



13 1/2" BOLT CIRCLE FOUNDATION

DIGGING DETAIL



DATE	DESCRIPTION	CHKD. BY

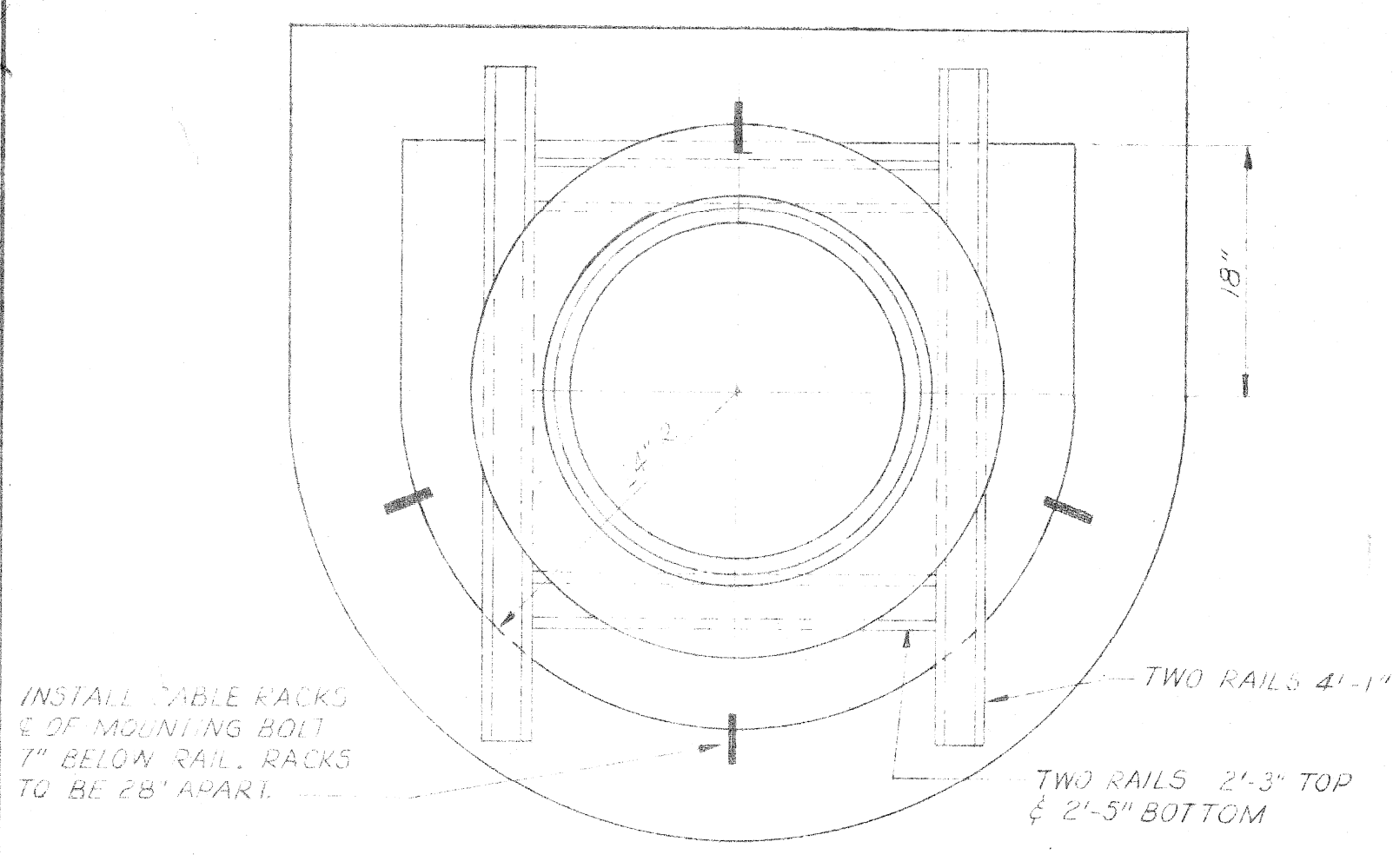
P. L.C. DETAILS TRAFFIC SIGNALS

DRAWN BY

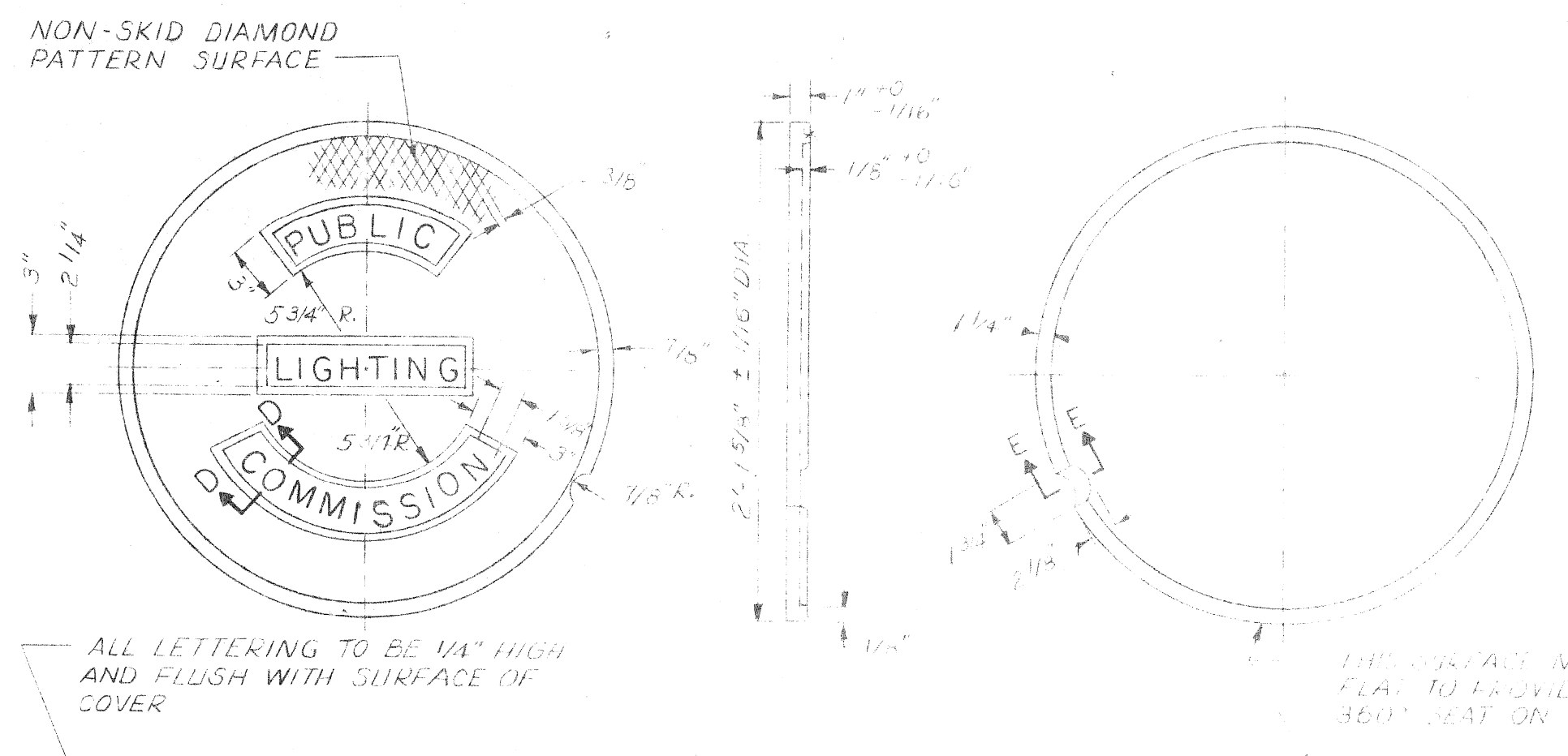
CHECKED BY

APPROVED BY

PUBLIC LIGHTING COMMISSION CITY OF DETROIT

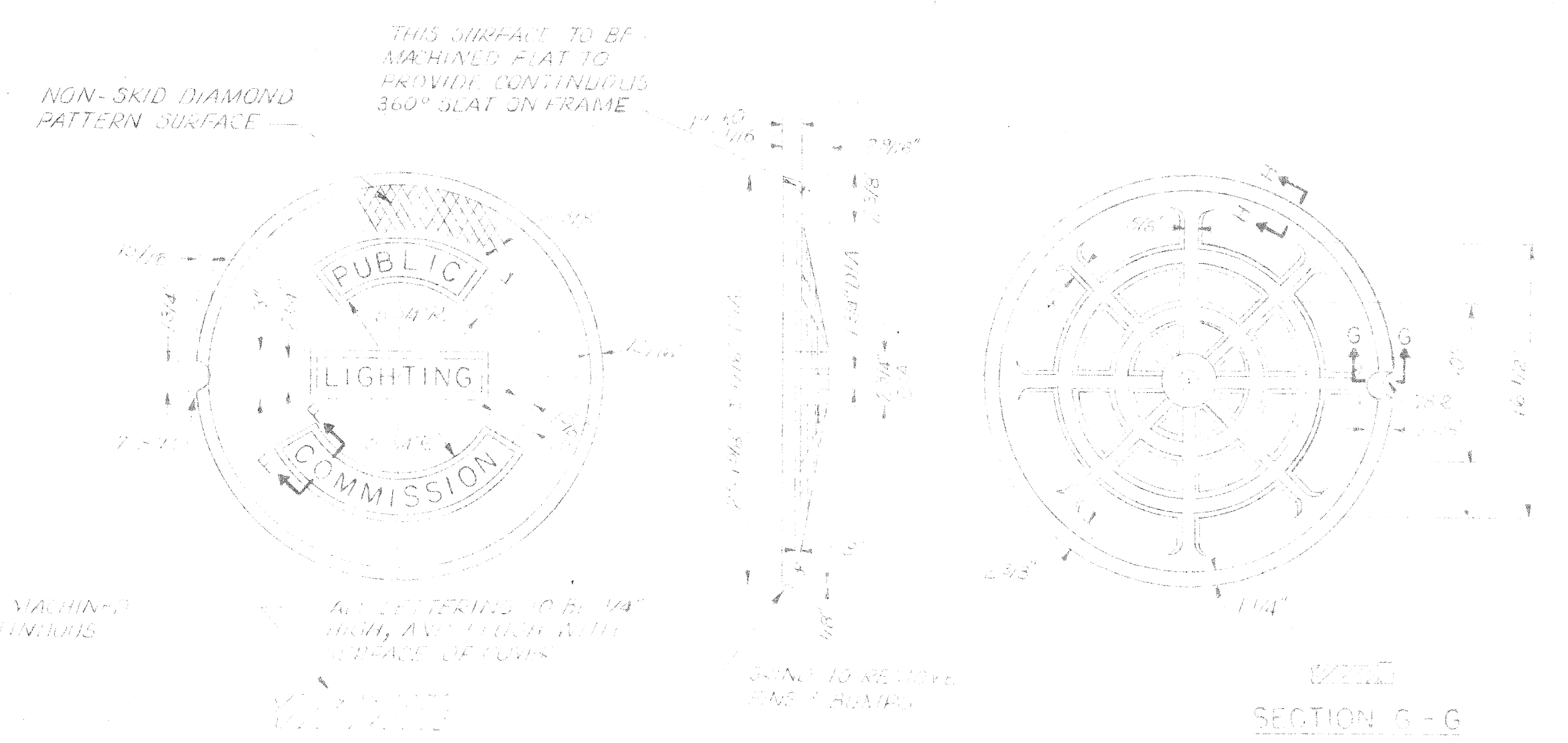


PLAN TYPE "D" HANDHOLE



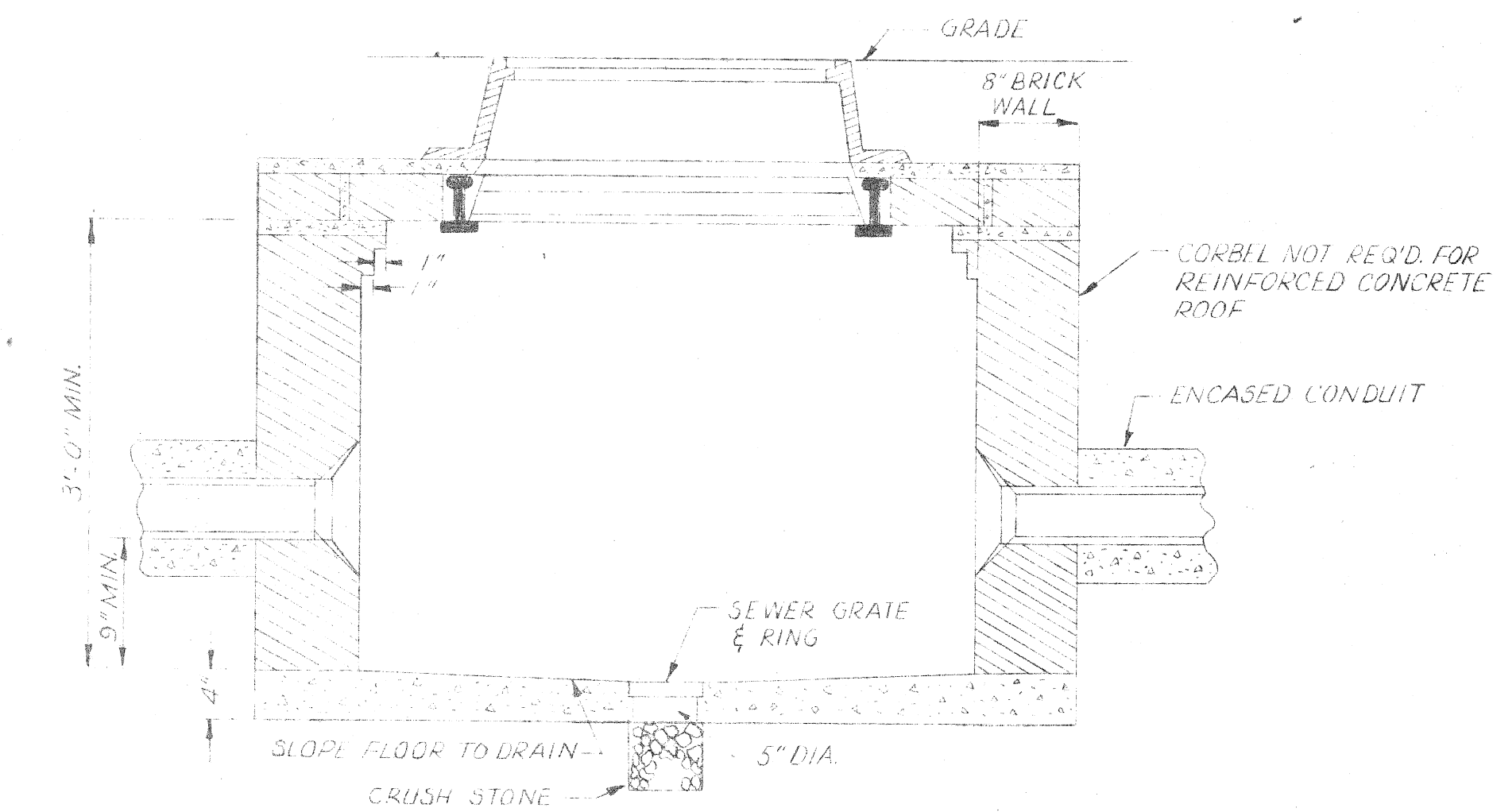
SECTION D-D

P.L.C. PATTERN NO. 419
A.S.T.M. CLASS 30 GRAY IRON
SIDEWALK TYPE COVER
TO BE USED IN SIDEWALK & DIRT AREAS

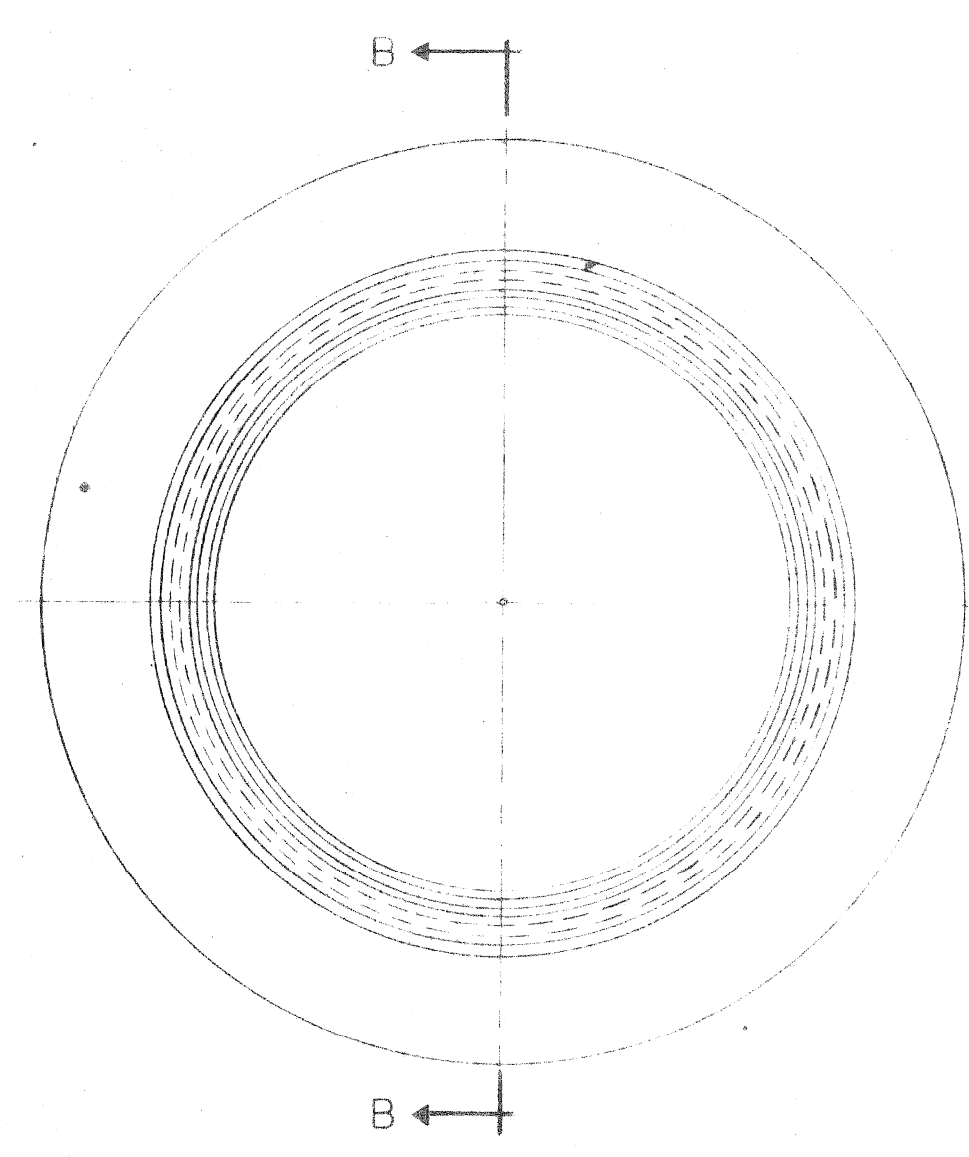


SECTION E-E

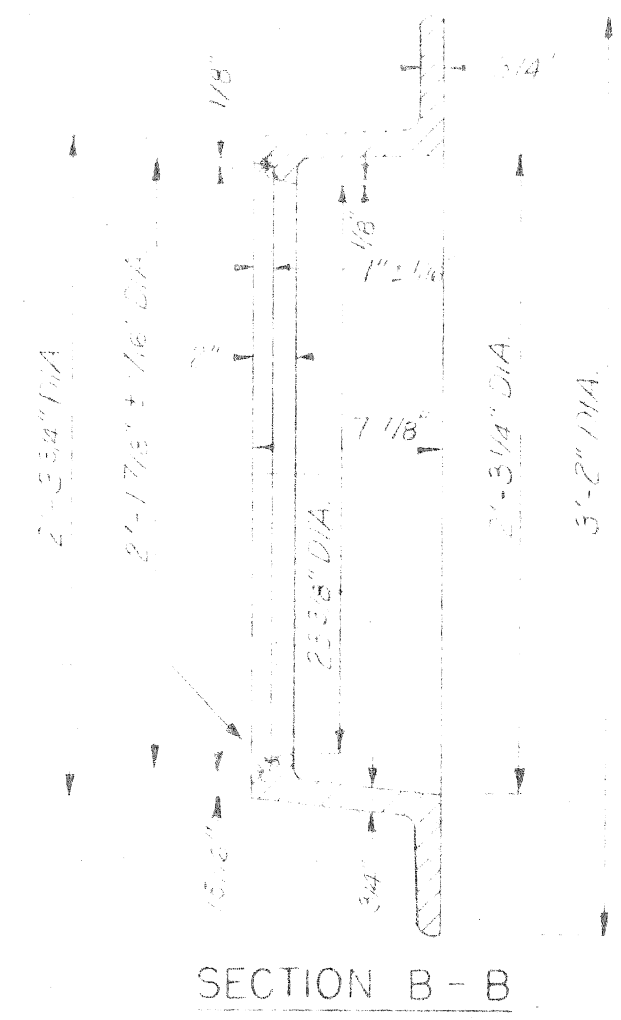
P.L.C. PATTERN NO. 2A
A.S.T.M. CLASS 30 GRAY IRON
APPROX. WT. 145 LBS.
TO BE USED IN STREET & DRIVES



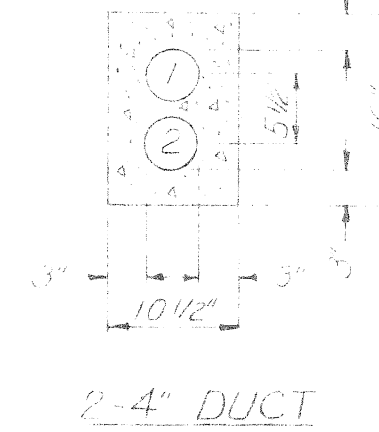
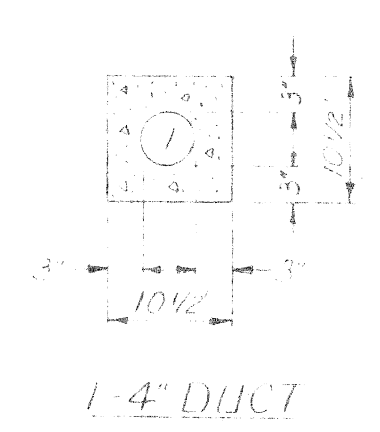
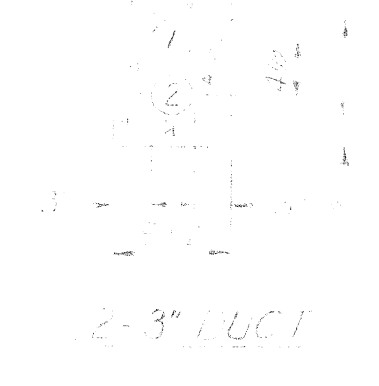
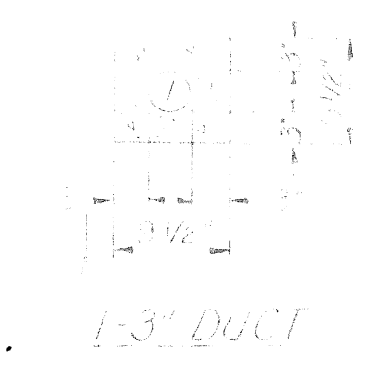
SECTION TYPE "D" STREET HANDHOLE



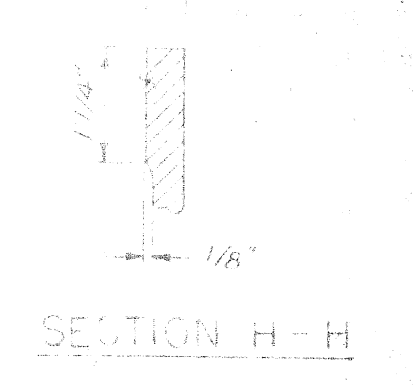
P.L.C. PATTERN NO. 1A
A.S.T.M. CLASS 20 OR 30 GRAY IRON
APPROX. WT. 251 LBS.
HANDHOLE FRAME



SECTION B-B



CONCRETE ENCASED CONDUIT



SECTION H-H

DATE	DESCRIPTION	CHKD. BY

P. L. C. DETAILS
TRAFFIC SIGNALS

DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

PUBLIC LIGHTING
COMMISSION
CITY OF DETROIT

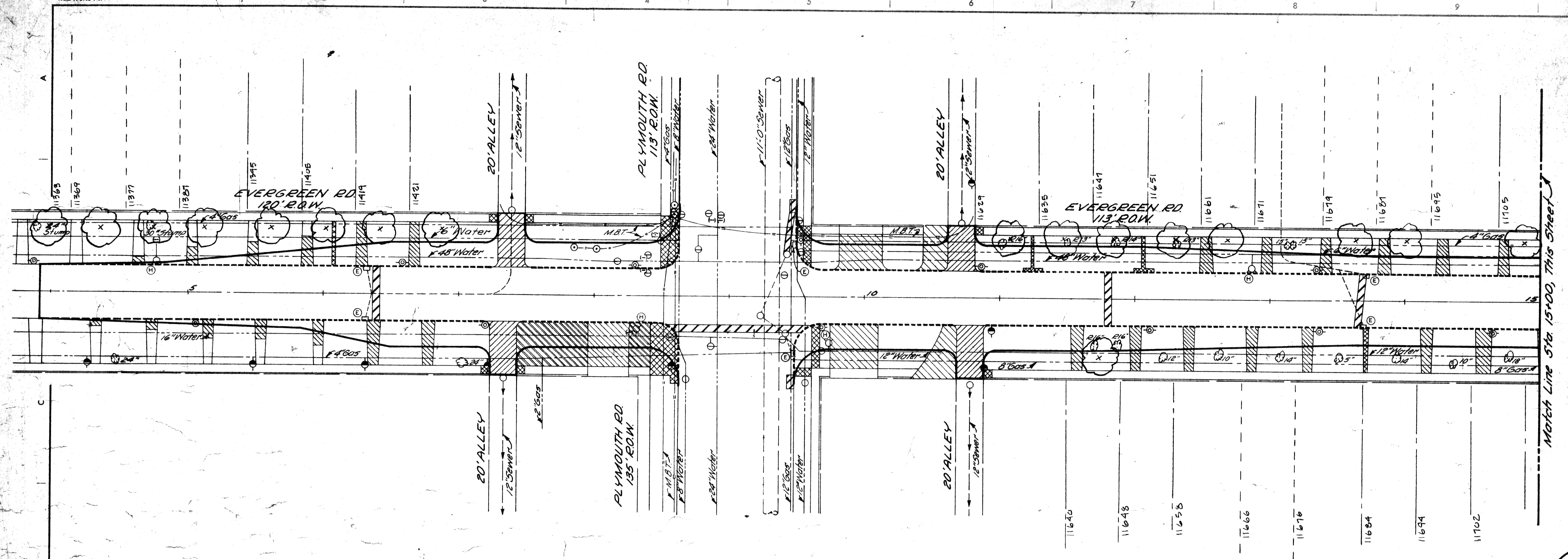
FILE NO. 52 2096
SHEET NO. 3
DATE 1-10-72

QUANTITY SHEET - E

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			42	43
ROUTE	STATE PROJECT	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS

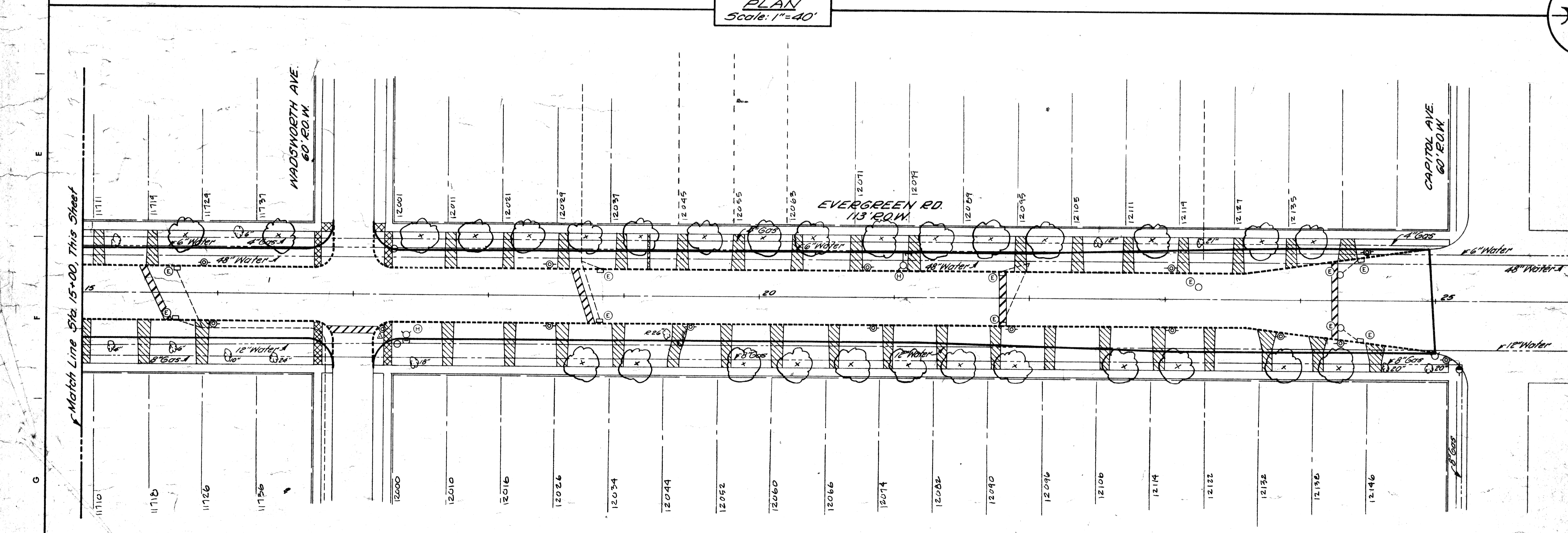
ITEM	AS PER PLANS						AS CONSTRUCTED						MISCELLANEOUS ITEMS						
	REMOVAL SOUTH OF PLYMOUTH TO CAPITOL	REMOVAL DAVISON TO NORTH OF SCHOOL-CRAFT	PLAN & PROFILE STA. 3+90.7 TO STA. 15+00	PLAN & PROFILE STA. 15+00 TO STA. 24+97.4	PLAN & PROFILE STA. 49+59.11 TO STA. 57+50	PLAN & PROFILE STA. 57+50 TO STA. 63+77.3	TOTAL	UNITS	TOTAL	UNITS	REMOVAL SOUTH OF PLYMOUTH TO CAPITOL	REMOVAL DAVISON TO NORTH OF SCHOOL-CRAFT	PLAN & PROFILE STA. 3+90.7 TO STA. 15+00	PLAN & PROFILE STA. 15+00 TO STA. 24+97.4	PLAN & PROFILE STA. 49+59.11 TO STA. 57+50	PLAN & PROFILE STA. 57+50 TO STA. 63+77.3	ITEM	AS PER PLANS	AS CONSTRUCTED
Removing Trees 13"-24" Dia.	6						6	Each	7								Maintaining Traffic	Lump	Sum
Removing Old Pavement	2637	5285					7922	Sq. Yd.	8083	2447	5414						5-40 Barricades	675	Lin. Ft.
Removing Old Pavement (Patching)	399	270					669	Sq. Yd.	483	292	123						Water (1000 Gal. Units)	434	Units
Removing Bituminous Surface	702	198					900	Sq. Yd.	1220	152	243						Calcium Chloride	72	Tons
Removing Sidewalk	333	510					843	Sq. Yd.	879	352	527						Class I Barricades	19	Each
Removing Curb	4150	1096					5246	Lin. Ft.	5068	4104	1064						Illuminated Target Arrow Signs - Type A	2	Each
Abandoning Drainage Structures	17	11					28	Each	28	17	11						6" Driveway - Grade P.H.E.	300	Sq. Ft.
Earth Excavation			1590	1373	1312	900	5175	Cu. Yd.	4418			1385	1206	1117	760		8" Driveway - Grade P.H.E.	150	Sq. Ft.
Granular Material Class II					669	49	718	Cu. Yd.	705					652	49		Concrete Pavement, 9" Uniform - Grade P.H.E.	200	Sq. Yd.
Aggregate Base for Concrete			18	16	685	80	799	Cu. Yd.	722			15	15	477	75		Concrete Pavement, 9" Uniform, Non-Event - Grade P.H.E.	55	Sq. Yd.
12" Sewer (C-76-II) Tr. Det. 9			114	282	108	80	584	Lin. Ft.	564			112	271	101	79		Concrete Base Course, 9" Uniform - Grade P.H.E.	200	Sq. Yd.
15" Sewer (C-76-II) Tr. Det. 9			326	316	216		858	Lin. Ft.	850			323	315	212			Lawn Sprinkler System	1	Each
18" Sewer (C-76-II) Tr. Det. 9				316	78	153	547	Lin. Ft.	551					320	77	154			
21" Sewer (C-76-II) Tr. Det. 9			314	38			352	Lin. Ft.	348			310	38						
12" Sewer (C-76-III) Tr. Det. 9			144	265	142	140	691	Lin. Ft.	677			147	265	147	140				
12" Class B Sewer Tr. Det. 9			9				9	Lin. Ft.	9			3							
24" Class B Sewer Tr. Det. 9			206				206	Lin. Ft.	206			206							
12" Class C Sewer Tr. Det. 9						10	10	Lin. Ft.	10						10				
24" Class C Sewer Tr. Det. 9						33	33	Lin. Ft.	33						29				
24" Sewer (C-76-V) In Tunnel			38				38	Lin. Ft.	30			30							
Temporary Culvert					2		2	Each	2						2				
12" Sewer Tap			1			2	3	Each	2			1			1				
24" Sewer Tap			1			1	2	Each	2			1			1				
12" Sewer Traps			4	2	1	3	10	Each	10			4	2	1	3				
15" Sewer Traps			1	1	1		3	Each	3			1	1	1					
Catch Basin "A"			2	6	1	4	13	Each	12			2	6	1	4				
Catch Basin "B"			5	3	2	3	13	Each	12			5	3	2	3				
Catch Basin "L"					3		3	Each	3					3					
Catch Basin "Y"			2				2	Each	2			2							
Manhole			2	3			5	Each	5			2	3						
Drop Manhole			1		1	1	3	Each	3			1		1	1				
Adjusting Drainage Structure Covers					4	1	5	Each	4					3	1				
Adjusting Water Shut-off			2			3	5	Each	5			2			3				
Adjusting Manhole Covers (Water)			8	2	1	8	19	Each	16			7	2	1	6				
Adjusting Manhole Covers (Electrical)					1		1	Each	1					1					
Reconstructing Manholes (Water)			1		1	1	3	Each	5			2		2	1				
Separate Curb Type II			2095	1983		1066	5144	Lin. Ft.	5202			2182	1977		1092				
Separate Curb Type II Reinforced						1548	1698	Lin. Ft.	1632					1431	127				
4" Concrete Sidewalk			1225	247		550	4388	Sq. Ft.	5145			1492	389	2727	617				
6" Concrete Sidewalk			796	252		360	1744	Sq. Ft.	1744			435	132	177	192				
6" Driveway			2582	4854		199	7804	Sq. Ft.	12263			4047	7682	245	368				
8" Driveway			1866			1140	3831	Sq. Ft.	4830			2347		1014	1442				
Concrete Pavement, 9" Uniform						612	6670	Sq. Yd.	6670						6670	490			
Concrete Base Course, 9" Uniform			3173	2772		1383	7328	Sq. Yd.	7347			3258	2920		1452				
Conc. Pavt., 9" Uniform, Non-Reinforced			200		64	99	363	Sq. Yd.	331			182		60	87				
Pavement Replacement	448	260					708	Sq. Yd.	483			344	179						
Concrete Pavement Patching		32					32	Sq. Yd.	0										
Pavement Reinforcement						612	6670	Sq. Yd.	6670						6670	488			
Bituminous Conc. Binder Course 9A			43				43	Tons	0										
Bituminous Conc. Leveling Course 25A			592	566	3	285	1443	Tons	1447			592	566	3	287				
Bituminous Conc. Wearing Course Type F			372	389	4	196	957	Tons	1210			371	494	5	280				
Bituminous Bond Coat			1507	1555	11	783	3856	Gals.	3115			1212	1274	6	623				
ALL SLAG AGGREGATE ALT:																			
Bit. Conc. Binder Course (BF Slag)			41				41	Tons	0										
Bit. Conc. Leveling Course (BF Slag) 25A			562	538	3	271	1371	Tons	1371										
Bit. Conc. Wearing Course (BF Slag) Type F			353	370	4	186	909	Tons	909										
Class A Sodding			1606	2579	725	610	5520	Sq. Yd.	4845			1405	2277	630	539				

JOB NO. 03187A PROJECT NO. T4000 (7)



PLAN
Scale: 1"=40'

- REMOVAL LEGEND**
- Removing Old Pavement [diagonal hatching]
 - Removing Curb [dotted line]
 - Driveway Removal * [diagonal hatching with asterisk]
 - Sidewalk Removal [diagonal hatching with asterisk]
 - Abandoning Drainage Structures [circle with cross]
 - Removing Drainage Structures [circle with cross]
 - Hydrant Removal [circle with cross]
 - Removing Trees [circle with cross]
 - Concrete Slab Removal * [diagonal hatching with asterisk]
 - Removing Old Pavt. (Patching) with Pavement Replacement [diagonal hatching with asterisk]
 - Removing Old Pavt. (Patching) with Conc. Pavement Patching [diagonal hatching with asterisk]
 - * Paid for as Removing Old Pavt.



- NOTES:**
1. For Utility Legend and Symbols, See Standard Detail Dwg. C-502-15, 16
 2. The removal of trees less than 8" in diameter is incidental to this contract.

PROPOSED TREE PLANTING SITES

X = 46 proposed trees

FOR LOCATION AND PLANTING SPECIFICATIONS, SEE ATTACHED SHEET OF JANUARY 20, 1972

PARKS & REC.
PROP. TREES
Sh. #1 of 1
1-20-72 u/s

DESIGNED BY	APPROVED:
DRAWN BY	
TRACED BY	
CHECKED BY	
DATE	

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

REMOVALS
EVERGREEN ROAD
FROM S. OF PLYMOUTH TO CAPITOL

SHEET	5	OF	5	SHEETS
PROJECT NO.	T4000 (7)			
JOB NO.	03187			
DATE	4/7			