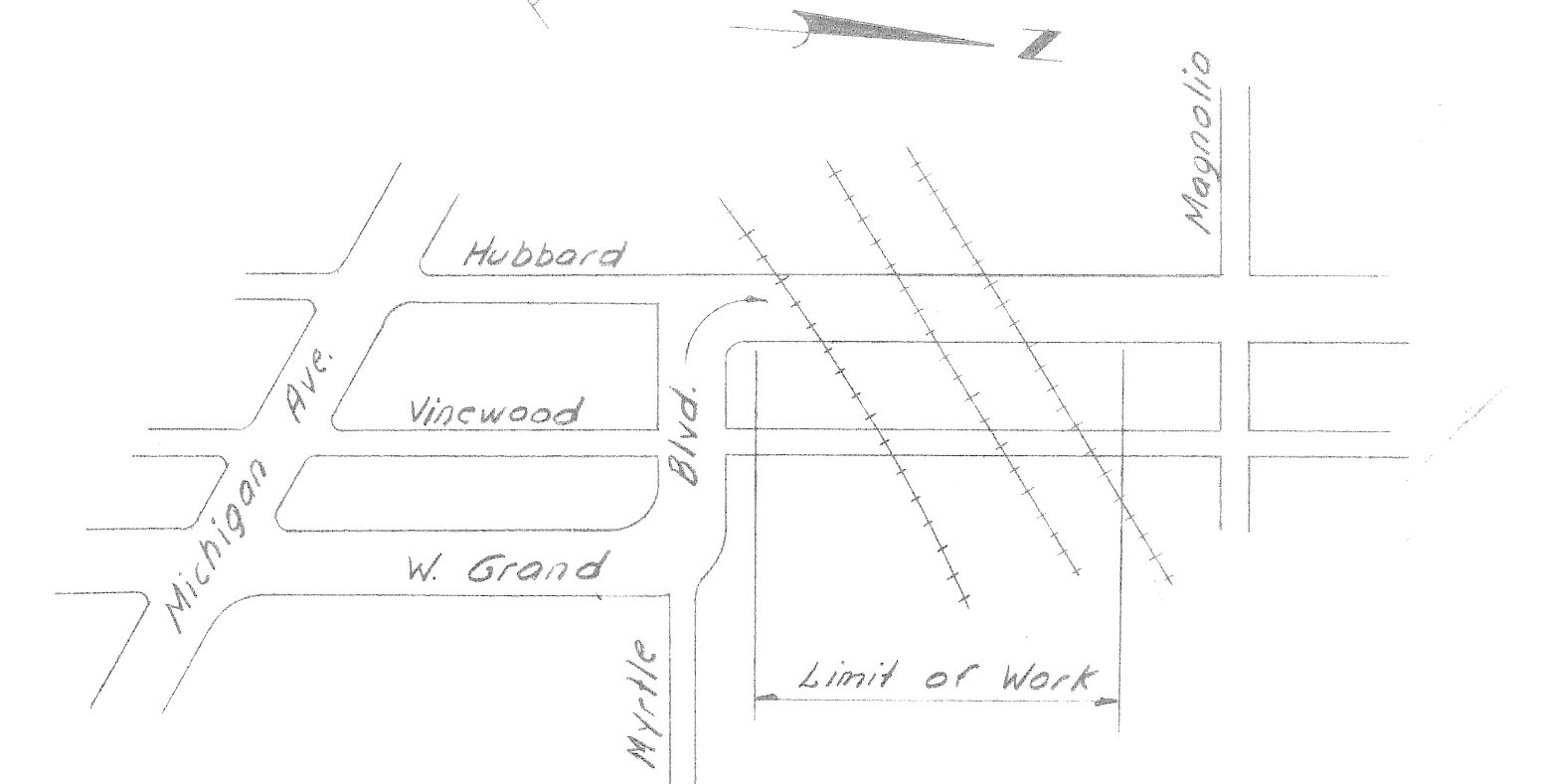
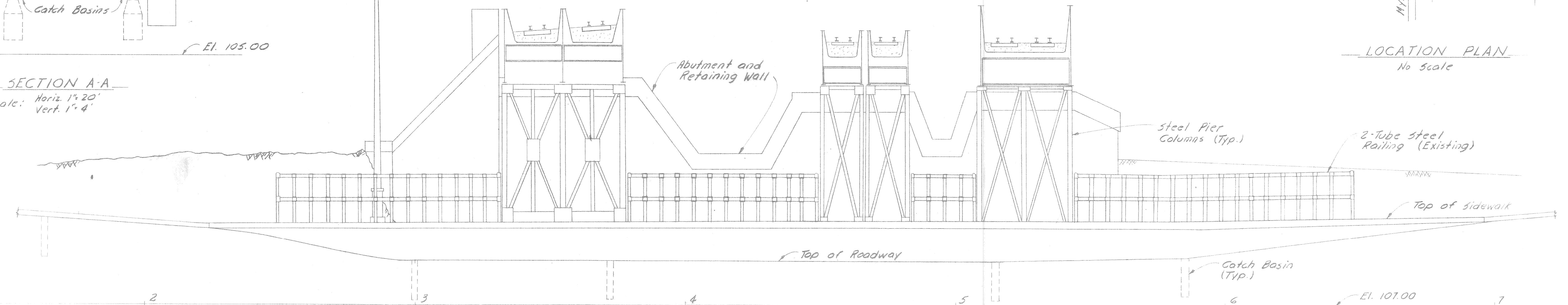


PLAN  
Scale: 1"=20'

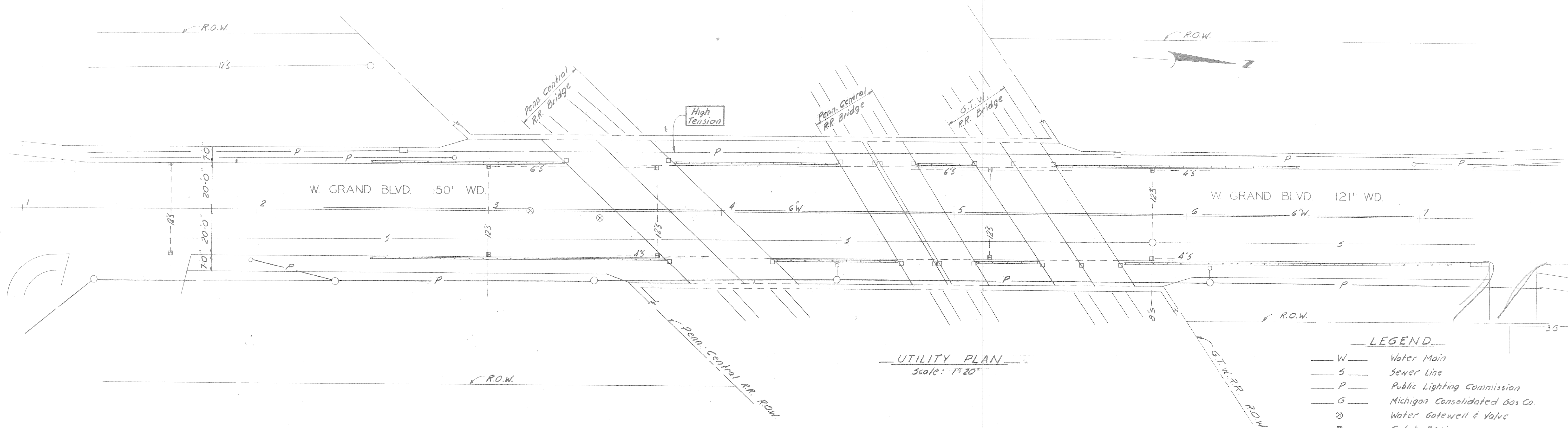


LOCATION PLAN  
No Scale



PROFILE ALONG W. GRAND BLVD. AT W. CURB LINE  
Scale: Horiz. 1"=20'  
Vert. 1"=4'

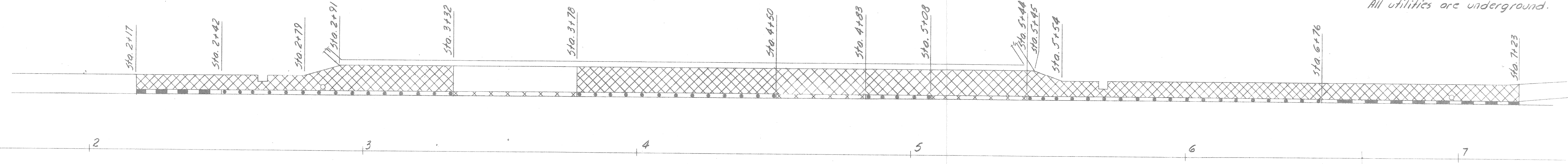
DESCRIPTION WORK LOCATED BY COORDINATED ON SHEET	REFERENCE DRAWINGS	DESIGNED BY D. J. R.	APPROVED:	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION <b>SIDEWALK, CURB &amp; RAILING REPAIR</b>	WEST GRAND BOULEVARD UNDER BRIDGE XU-27 PENN CENTRAL & G.T.W. RAILROADS <b>GENERAL DRAWING</b>	SHEET 1 OF 3 SHEETS
	DRAWN BY A. J. G.	TRACED BY	JOB No. AO-1371			
	CHECKED BY W. A. L.	HIGHWAY & EXPRESSWAY ENGINEER	DRWG No. 1			
	DATE JULY 1969					



**LEGEND**

- W — Water Main
- S — Sewer Line
- P — Public Lighting Commission
- G — Michigan Consolidated Gas Co.
- ⊗ Water Gatewell & Valve
- Catch Basin
- □ P.L.C. Manhole
- P.L.C. Light Pole

*Note:*  
All utilities are underground.



**LEGEND**

- ▨ Sidewalk Removal
- ▬ Curb Removal
- ⊗ Wall Removal
- ▬ Wall & Railing Removal

**NOTES:**

Existing wall is to be removed a minimum distance of 1'-0" behind curb line, except where limited by bridge substructure. The excavation depth is to be 3'-6" below pavement grade except at pier columns, where the top of footing will control the depth. The top of footing elevation is 108.5± or 1.5' to 2' below pavement grade.

Catch basins are not to be disturbed. The wall is not to be removed below pavement grade for a distance of 2 feet on either side of any catch basin. For construction limits of catch basins and pier footings see wall elevation at catch basins and pier footings on Sheet #3.

After concrete has been removed, any damage or deterioration to bridge substructure should be reported to the Design Office before proceeding with work.

All underground utilities shall be located prior to removal operations. The removal operations shall be conducted in such a manner as to insure that these utilities will not be disturbed.

Fill (Grade A) is to be used as required in voids behind the wall prior to pouring sidewalk.

Roadway paving should be left undisturbed if possible; however, if it is necessary to remove any paving during construction it shall be patched and restored to its original condition.

NO.	DESCRIPTION	BY	DATE

DESIGNED BY *D.J.R.*  
 DRAWN BY *A.J.G.*  
 TRACED BY  
 CHECKED BY *W.A.L.*

APPROVED:  
 HIGHWAY & EXPRESSWAY ENGINEER

**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAY & EXPRESSWAY DIVISION

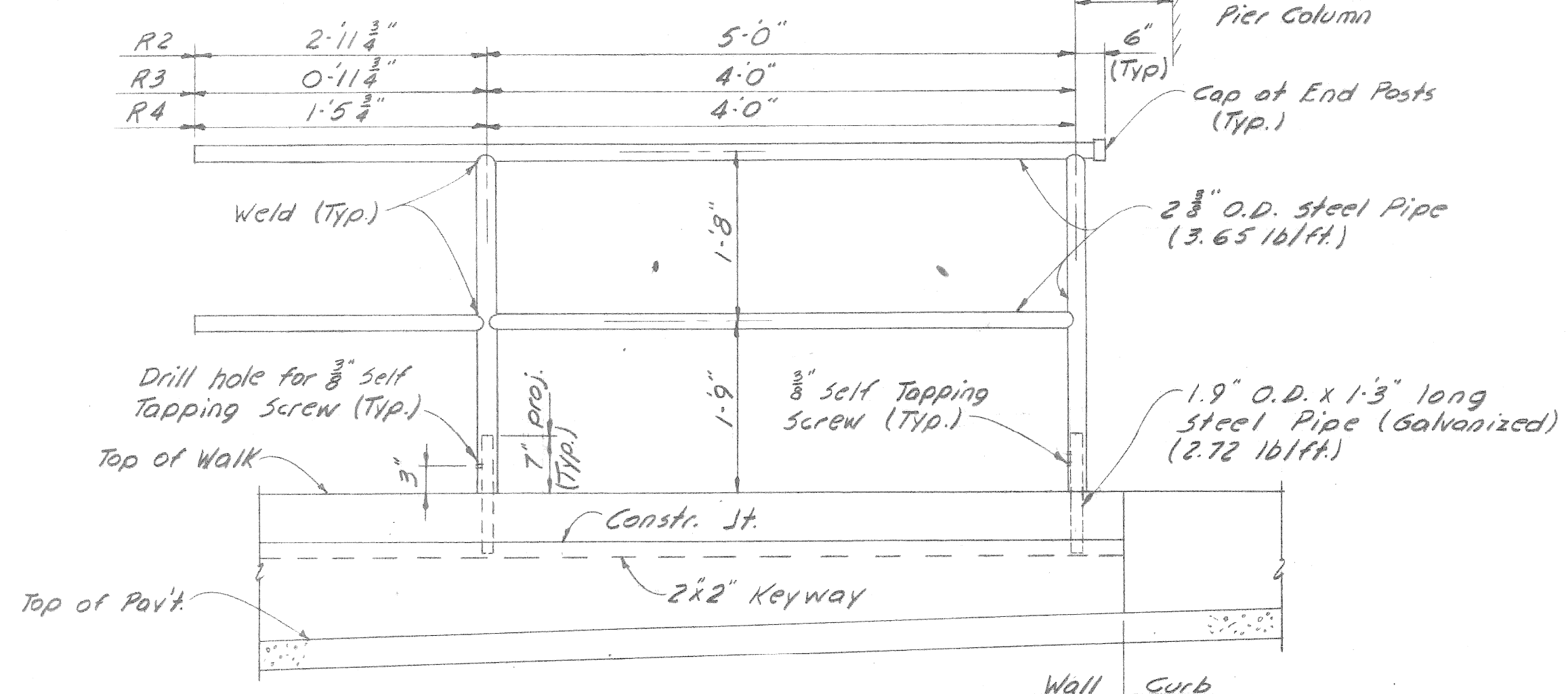
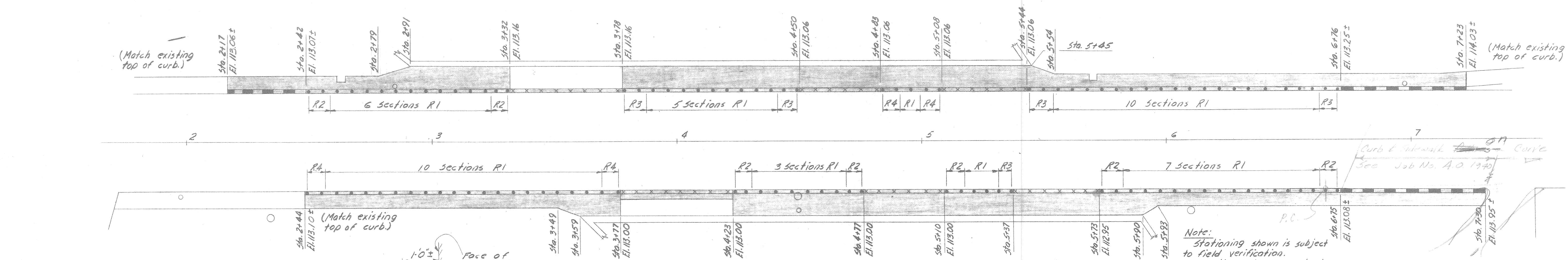
**SIDEWALK, CURB & RAILING REPAIR**

**WEST GRAND BOULEVARD UNDER BRIDGE XU-27**  
**PENN CENTRAL & G.T.W. RAILROADS**

**UTILITY PLAN & REMOVAL PLAN**

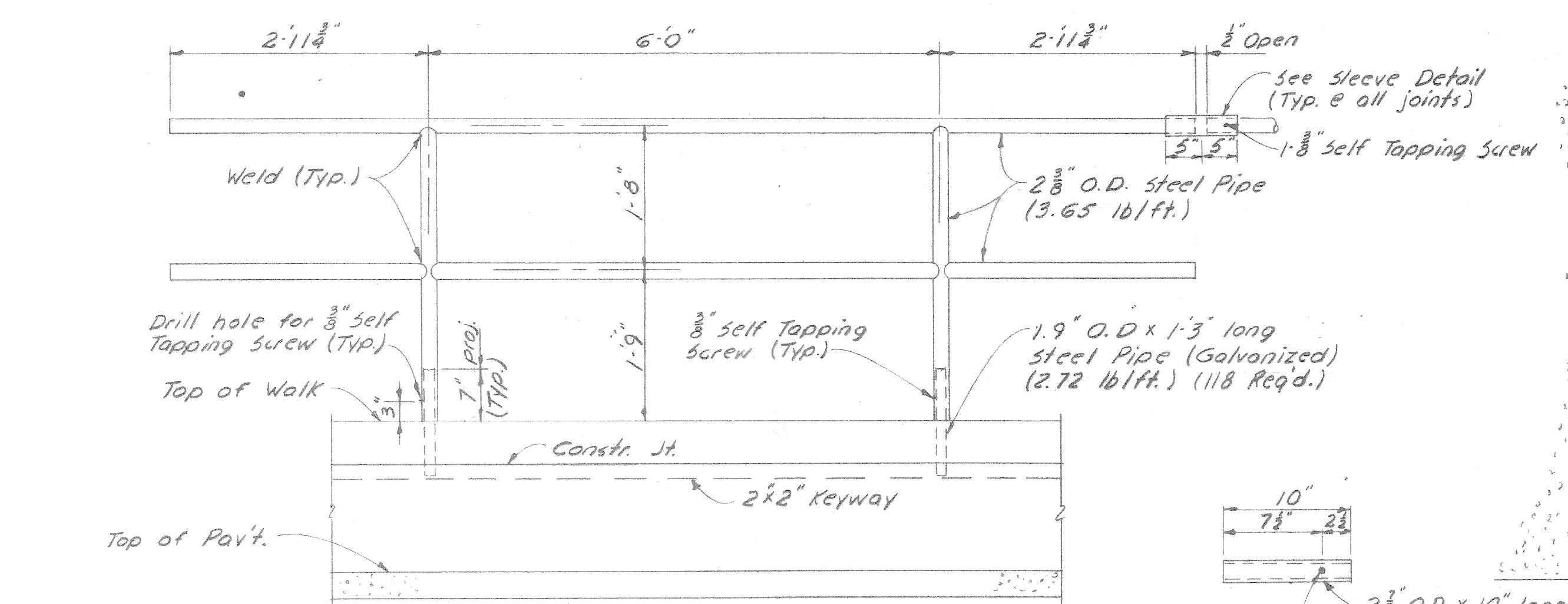
SHEET 2 OF 3 SHEETS  
 JOB No. AO-1871  
 DRWG No. 2  
 DATE JULY 1969



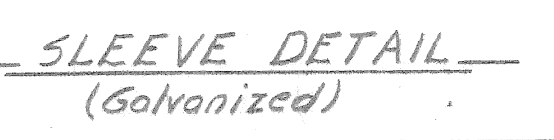


END RAILING DETAIL R2, R3 & R4  
Scale: 3/8" = 1'-0"

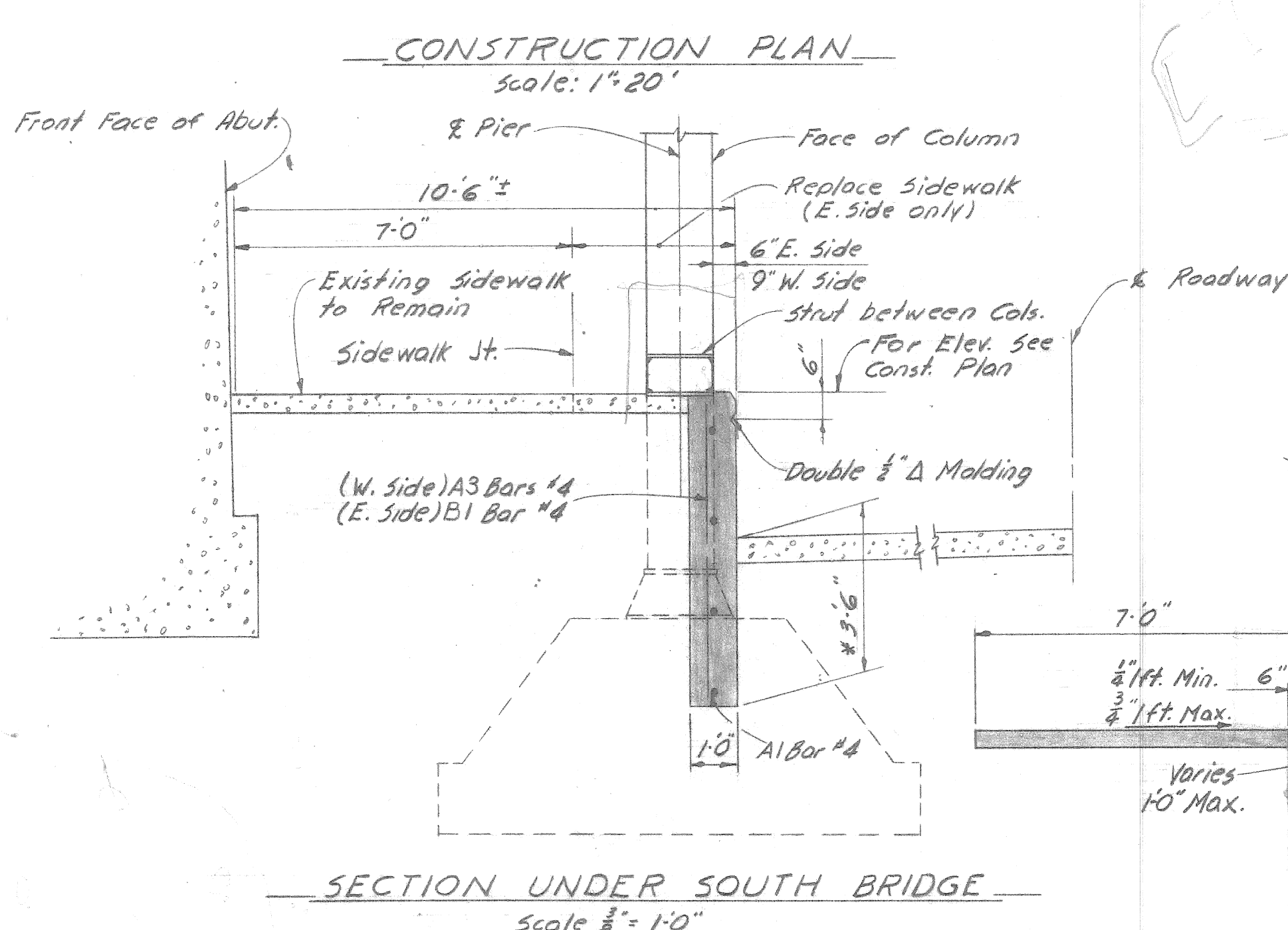
Note: All Railing sections are to be galvanized after fabrication.



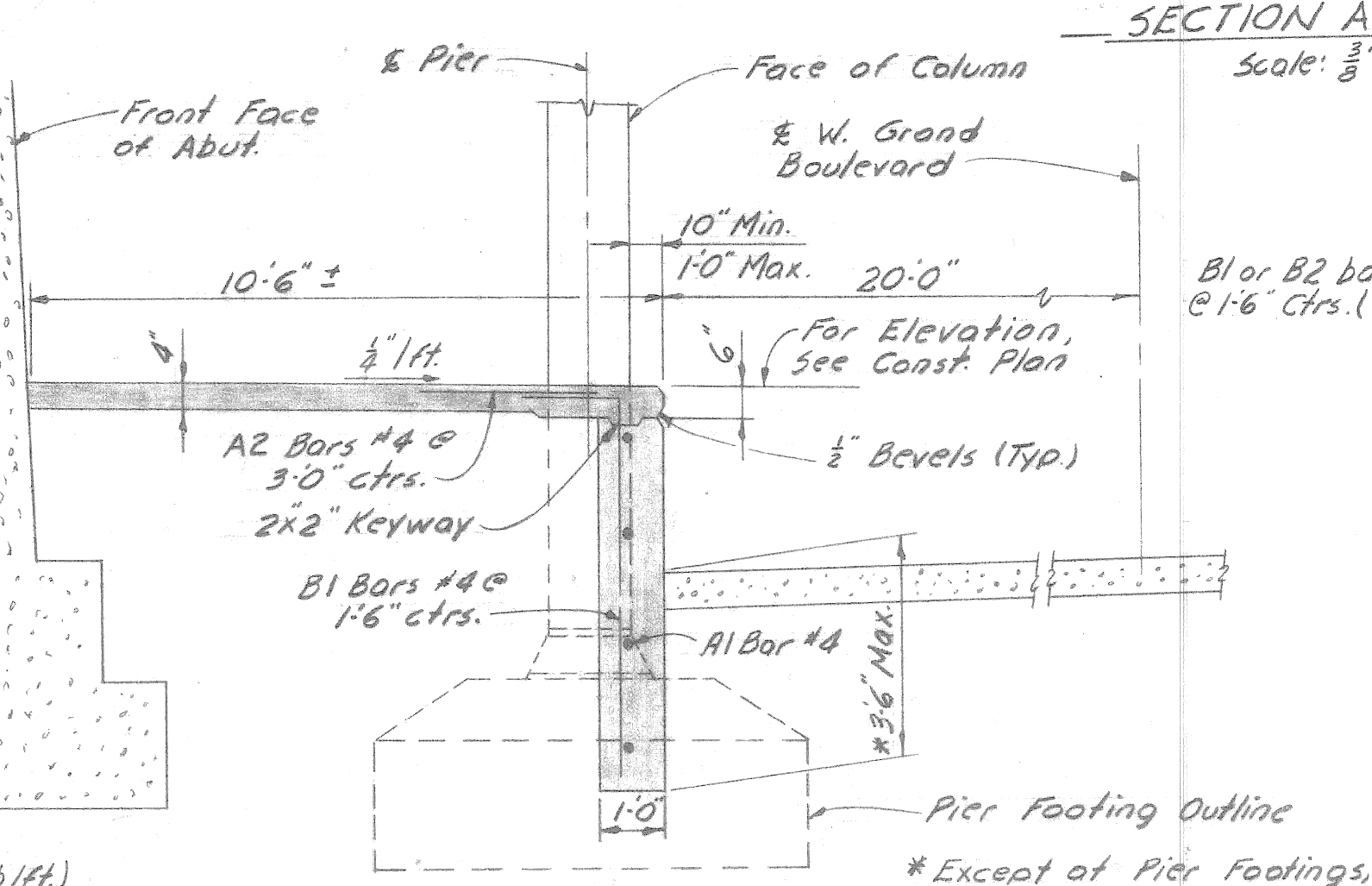
RAILING DETAIL R1  
Scale: 3/8" = 1'-0"



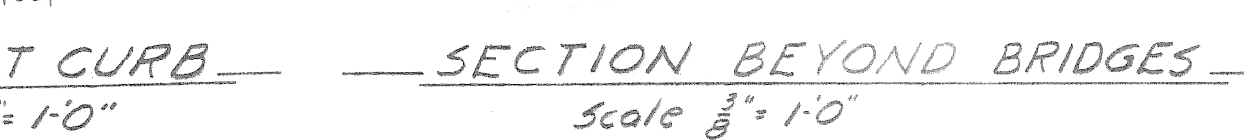
SLEEVE DETAIL (Galvanized)



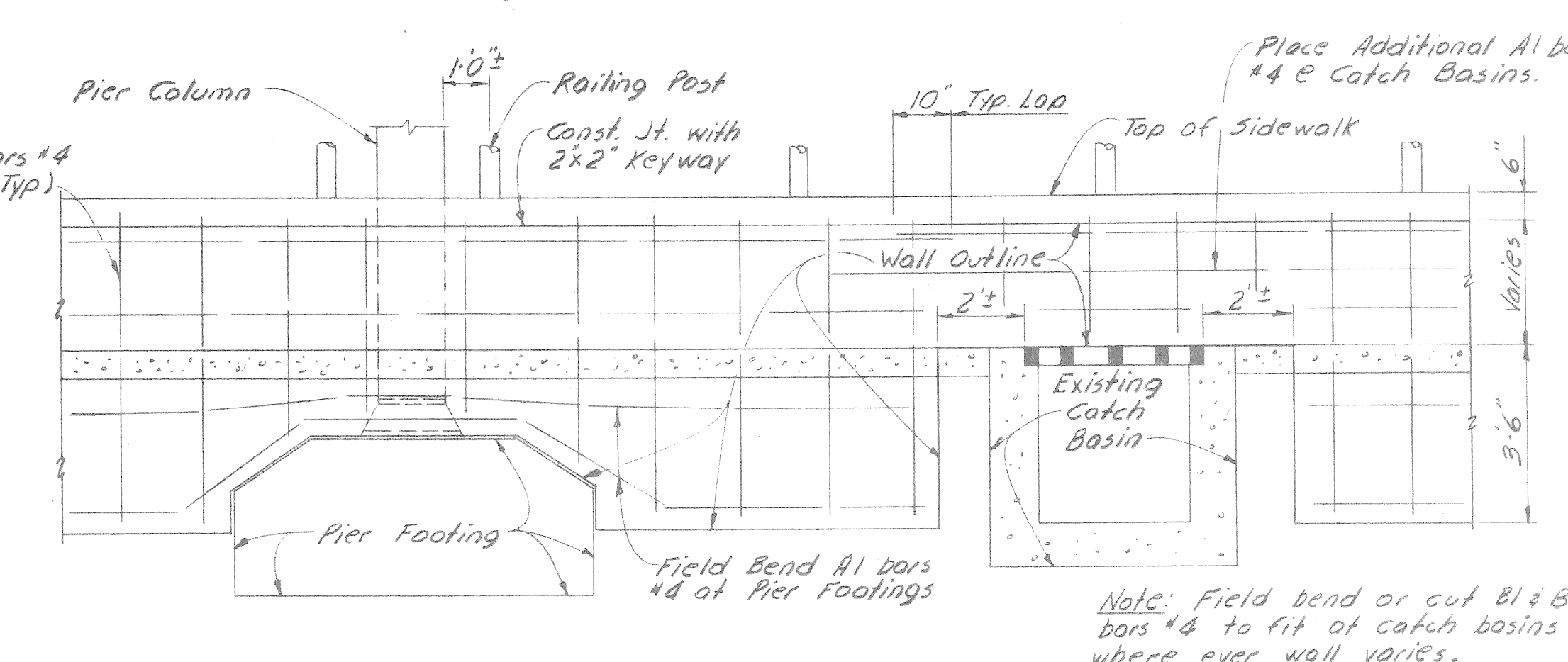
SECTION UNDER SOUTH BRIDGE  
Scale: 3/8" = 1'-0"



SECTION UNDER NORTH & MIDDLE BRIDGES  
Scale: 3/8" = 1'-0"



SECTION AT CURB  
Scale: 3/8" = 1'-0"



WALL ELEVATION AT CATCH BASINS AND PIER FOOTINGS

Note: Stationing shown is subject to field verification. Elevations shown are to top of curb or top of walk at curb line.

LEGEND

- New Sidewalk
- New Curb
- New Wall
- New Wall & Railing

QUANTITIES

Item	Unit	Am't
Concrete Grade (AGAA)	Cu. Yd.	169
Sidewalk 4"	Sq. Ft.	7822
Railing, 2-Tube	Lin. Ft.	627
Curb, Detail 2	Lin. Ft.	127
Fill (Grade A)	Cu. Yd.	10
Debris Removal	Cu. Yd.	310
Steel Reinforcement	Lbs.	5670

REINFORCEMENT BAR SCHEDULE

Bar	a	b	Size	Length	No. Req'd	Length
A1			#4	20'-0"	184	A
A2			#4	3'-0"	275	
A3			#4	6'-0"	32	
B1	6'-0"	1'-6"	#4	7'-6"	358	
B2	4'-0"	1'-6"	#4	5'-6"	201	B

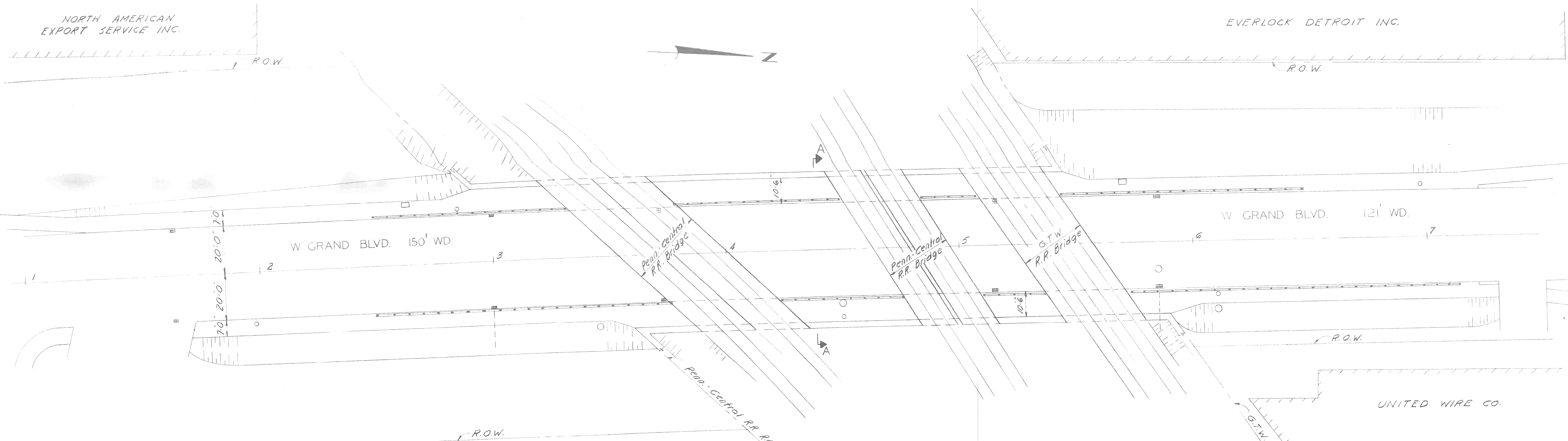
DESIGNED BY	D.J.R.	APPROVED:	
DRAWN BY	A.J.G.		
TRACED BY			
CHECKED BY	W.A.L.		

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
HIGHWAY & EXPRESSWAY DIVISION  
SIDWALK, CURB & RAILING REPAIR

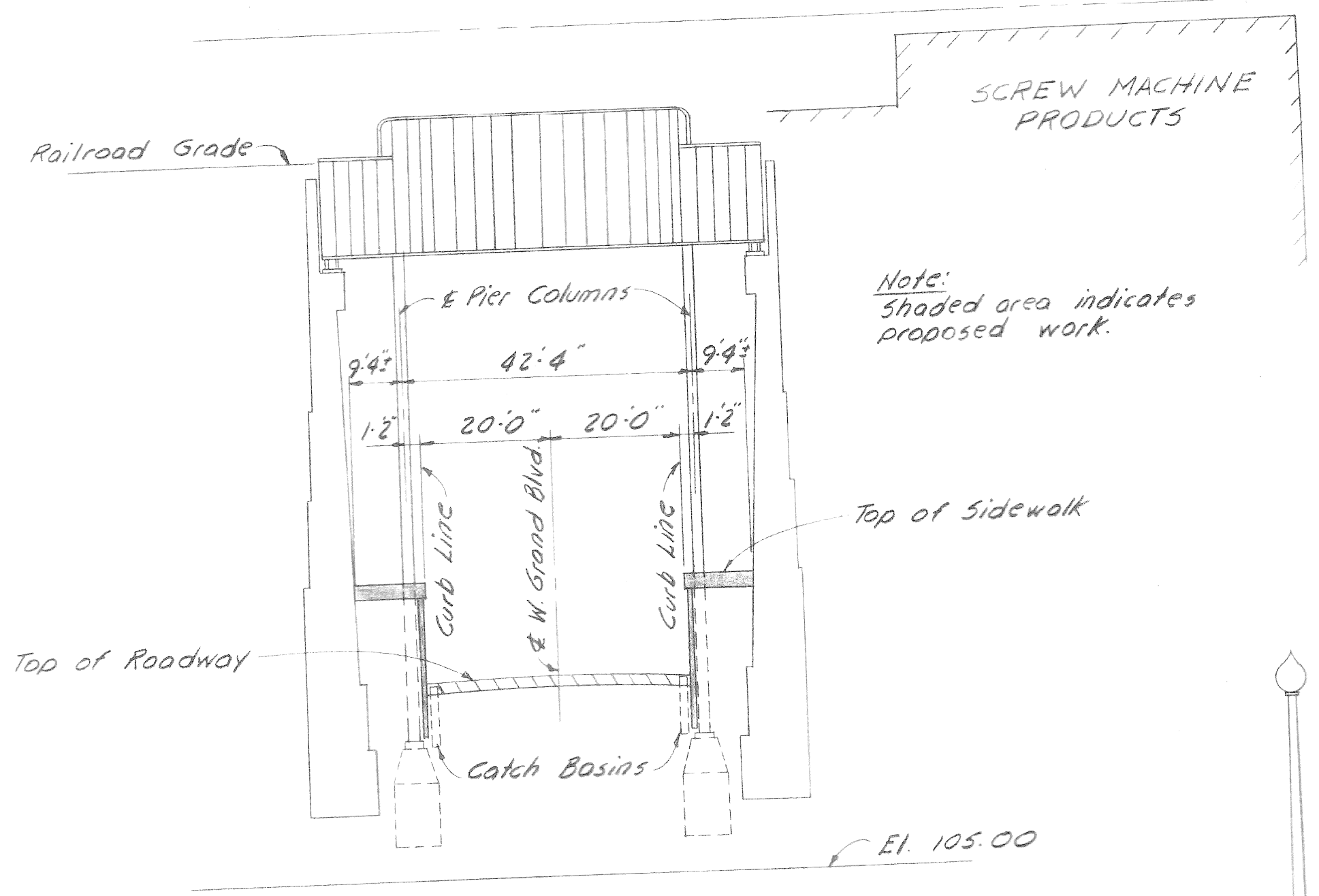
WEST GRAND BOULEVARD UNDER BRIDGE XU-27  
PENN CENTRAL & G.T.W. RAILROADS  
CONSTRUCTION PLAN

SHEET 3 OF 3 SHEETS  
JOB No. AO-1871  
DRWG No. 3  
DATE JULY 1969

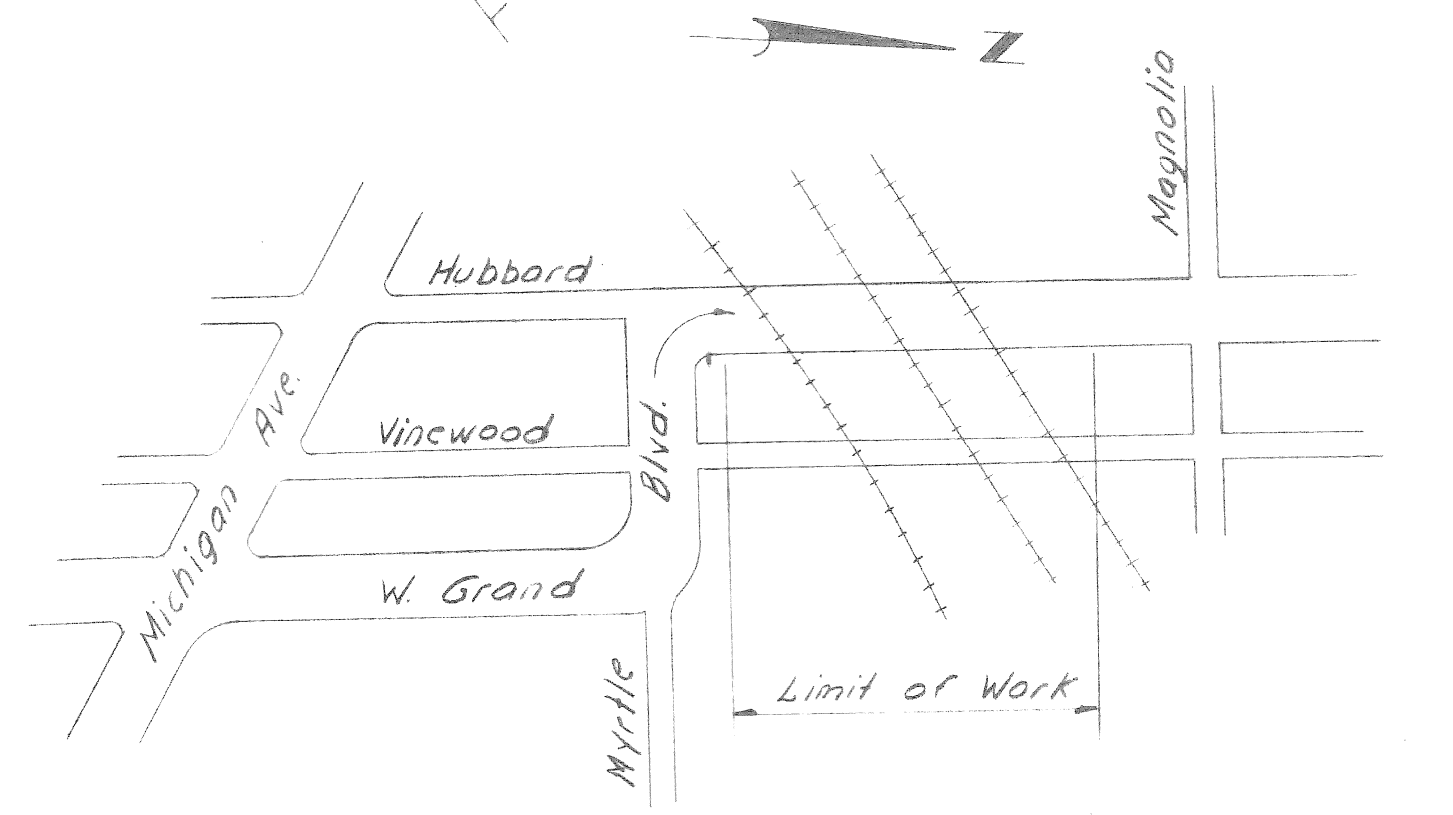




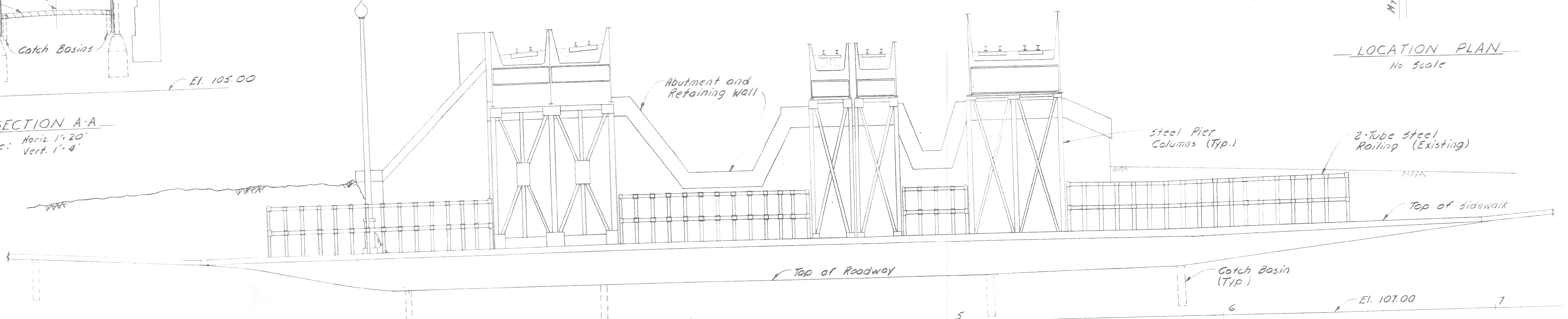
PLAN  
Scale: 1"=20'



SECTION A-A  
Scale: Horiz. 1"=20'  
Vert. 1"=4'



LOCATION PLAN  
No Scale

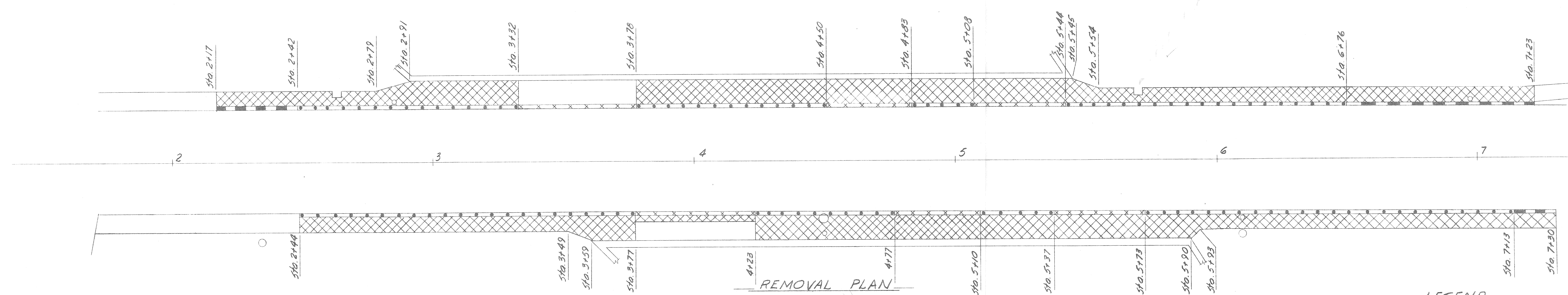
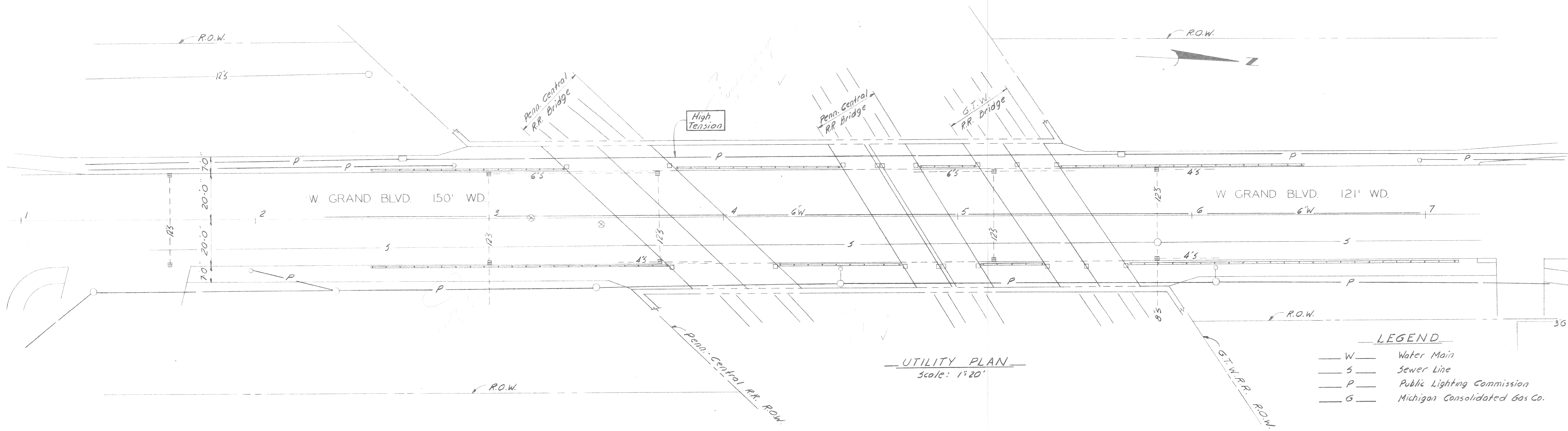


PROFILE ALONG W. GRAND BLVD. AT W. CURB LINE  
Scale: Horiz. 1"=20'  
Vert. 1"=4'

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION				WEST GRAND BOULEVARD UNDER XU-27 PENN CENTRAL & G.T.W. BRIDGES				SHEET 1 OF 3 SHEETS JOB No. AO-1871	
DESIGNED BY: D.J.R. DRAWN BY: A.J.G. TRACED BY: _____ CHECKED BY: W.A.L.				APPROVED: _____ HIGHWAY & EXPRESSWAY ENGINEER				DRWG No. 1 DATE: JULY 1969	
SIDWALK, CURB & RAILING REPAIR				GENERAL DRAWING					

REVISIONS LOCATED BY COORDINATES ON SHEET





**NOTES:**

Existing wall is to be removed a minimum distance of 1'-0" behind curb line, except where limited by bridge substructure. The excavation depth is to be 3'-6" below pavement grade except at pier columns, where the top of footing will control the depth. The top of footing elevation is 108.5± or 1.5' to 2' below pavement grade.

Catch basins are not to be disturbed. The wall is not to be removed below pavement grade for a distance of 2 feet on either side of any catch basin. For construction limits at catch basins and pier footings see wall elevation at catch basins and pier footings on Sheet #3.

After concrete has been removed, any damage or deterioration to bridge substructure should be reported to the Project Engineer.

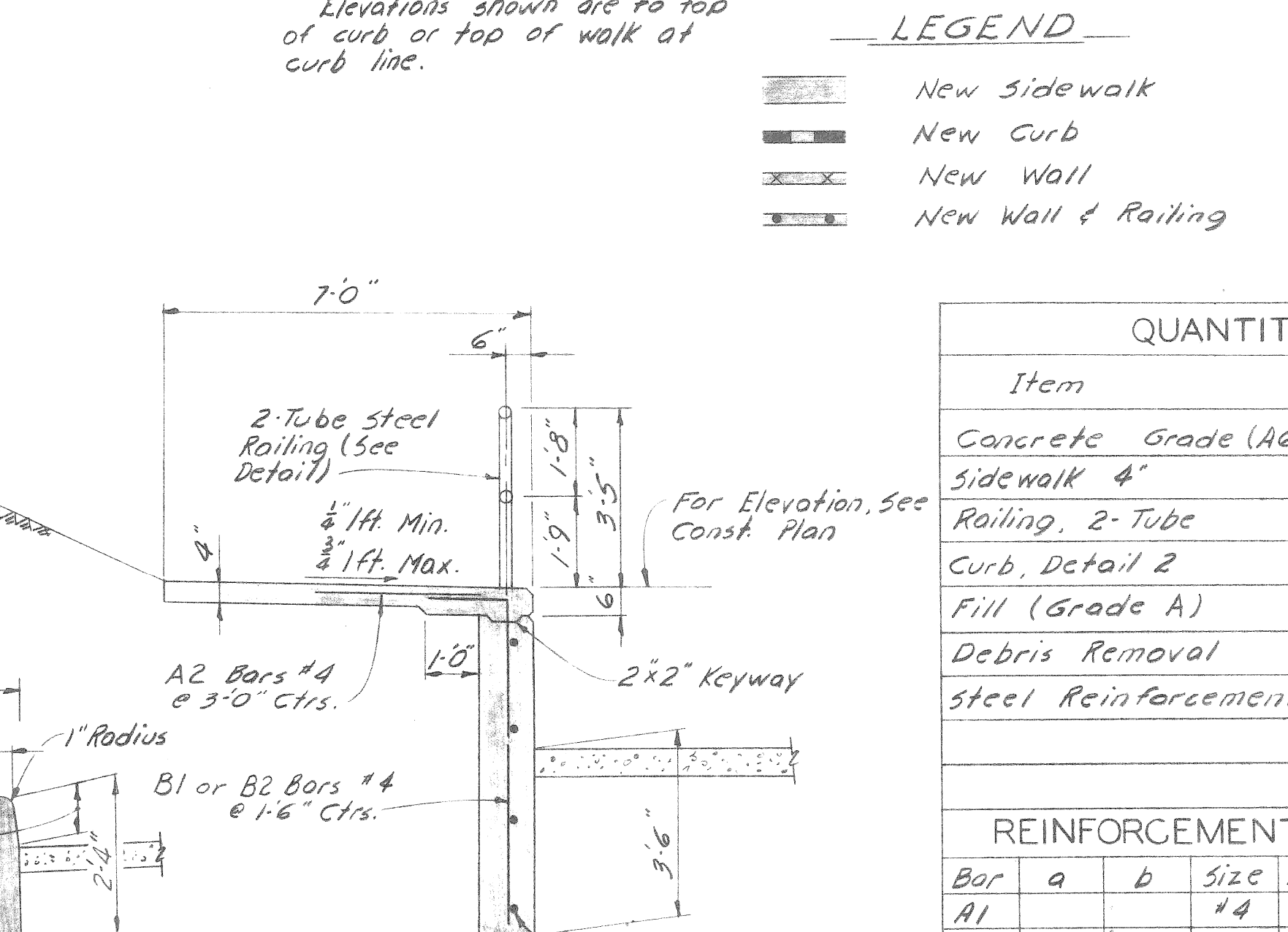
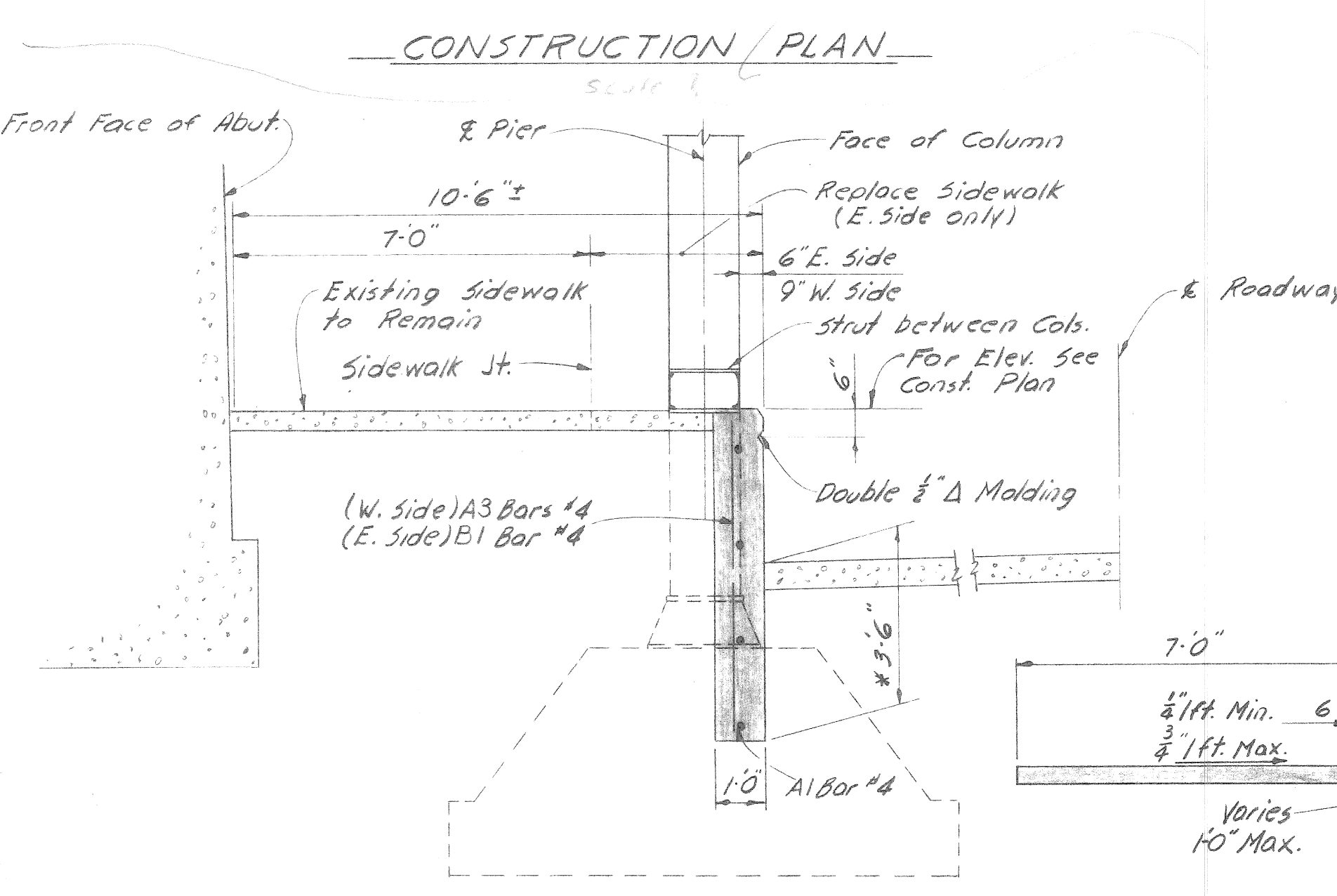
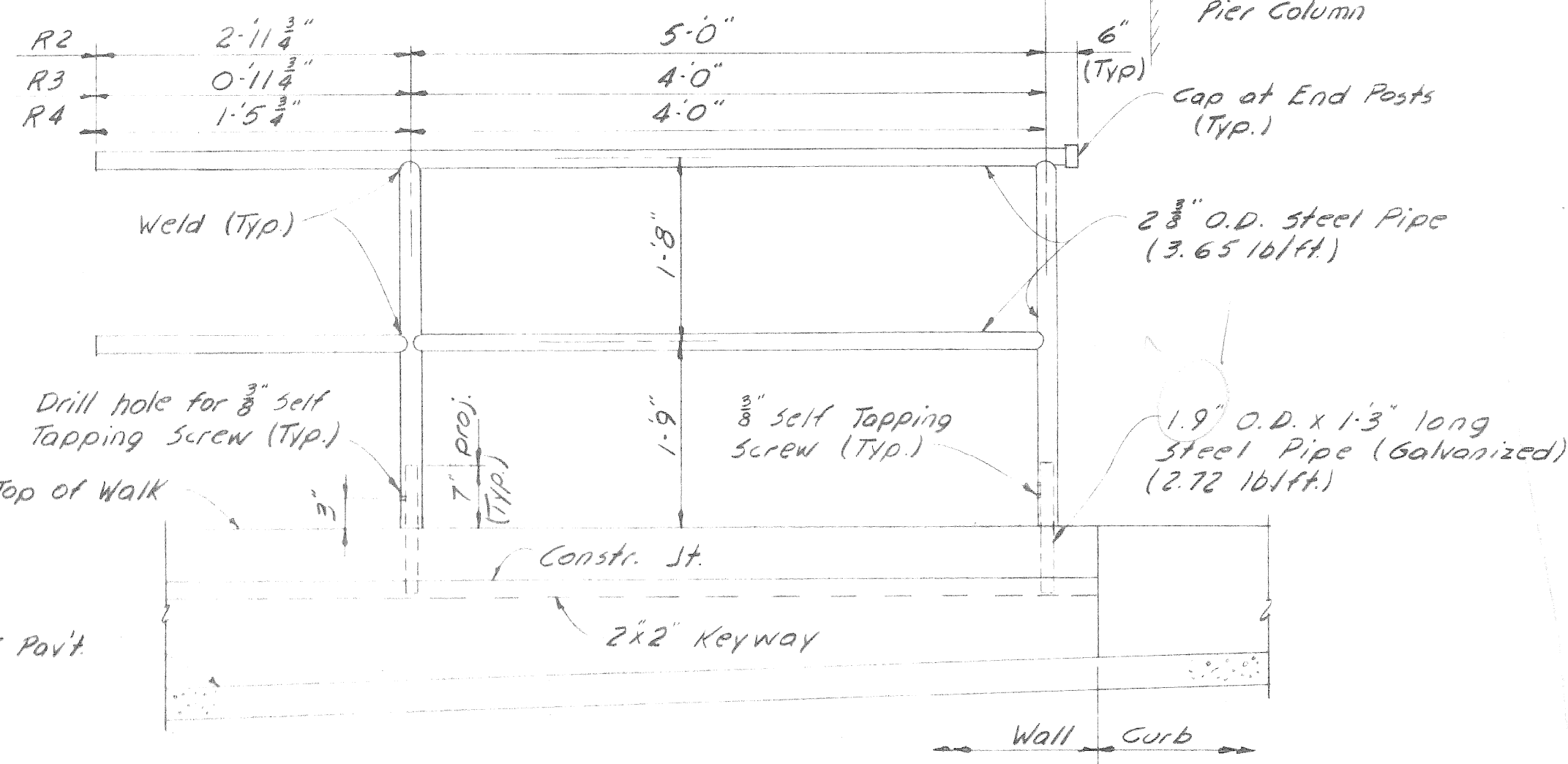
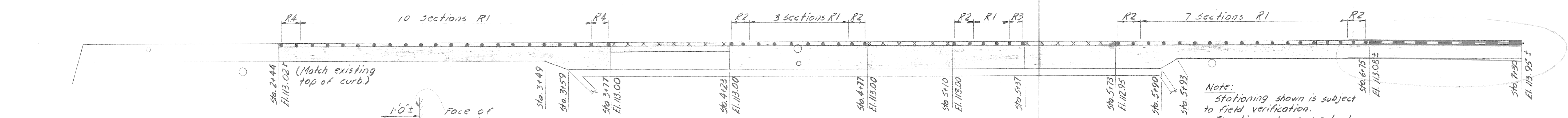
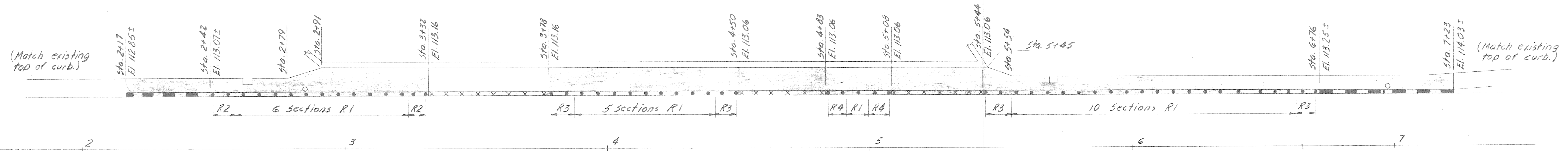
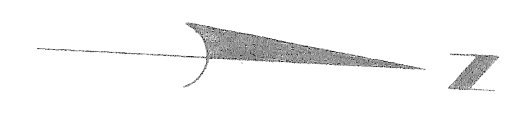
All underground utilities shall be located prior to removal operations. The removal operations shall be conducted in such a manner as to insure that these utilities will not be disturbed.

Fill (Grade A) is to be used as required in voids behind the wall prior to pouring sidewalk.

Roadway paving should be left undisturbed if possible; however, if it is necessary to remove any paving during construction it shall be patched and restored to its original condition.

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION		WEST GRAND BOULEVARD UNDER XU-27 PENN CENTRAL & G.T.W. BRIDGES		SHEET <u>2</u> OF <u>3</u> SHEETS
DESIGNED BY <i>D.J.R.</i> DRAWN BY <i>A.J.G.</i> TRACED BY CHECKED BY <i>W.A.L.</i>		APPROVED: HIGHWAY & EXPRESSWAY ENGINEER		JOB No. AO-1871 DRWG No. 2 DATE JULY 1969
REVISIONS LOCATED BY COORDINATES ON SHEET		SIDEWALK, CURB & RAILING REPAIR		UTILITY PLAN & REMOVAL PLAN





**LEGEND**

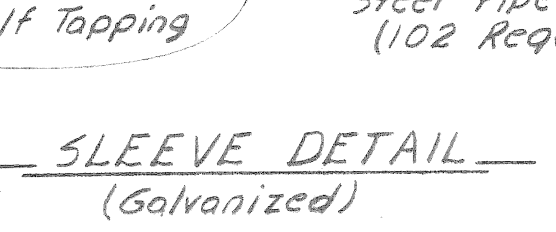
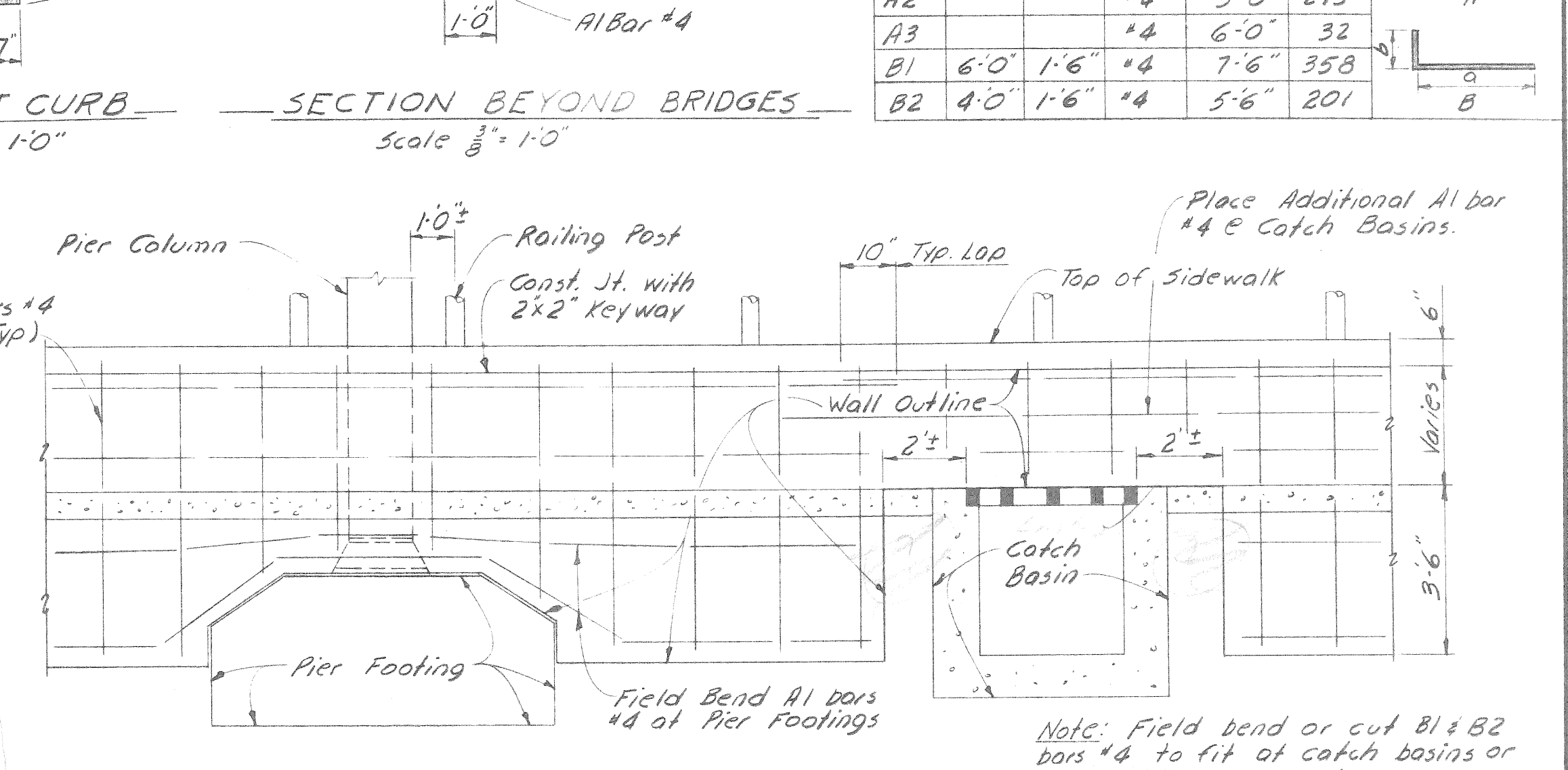
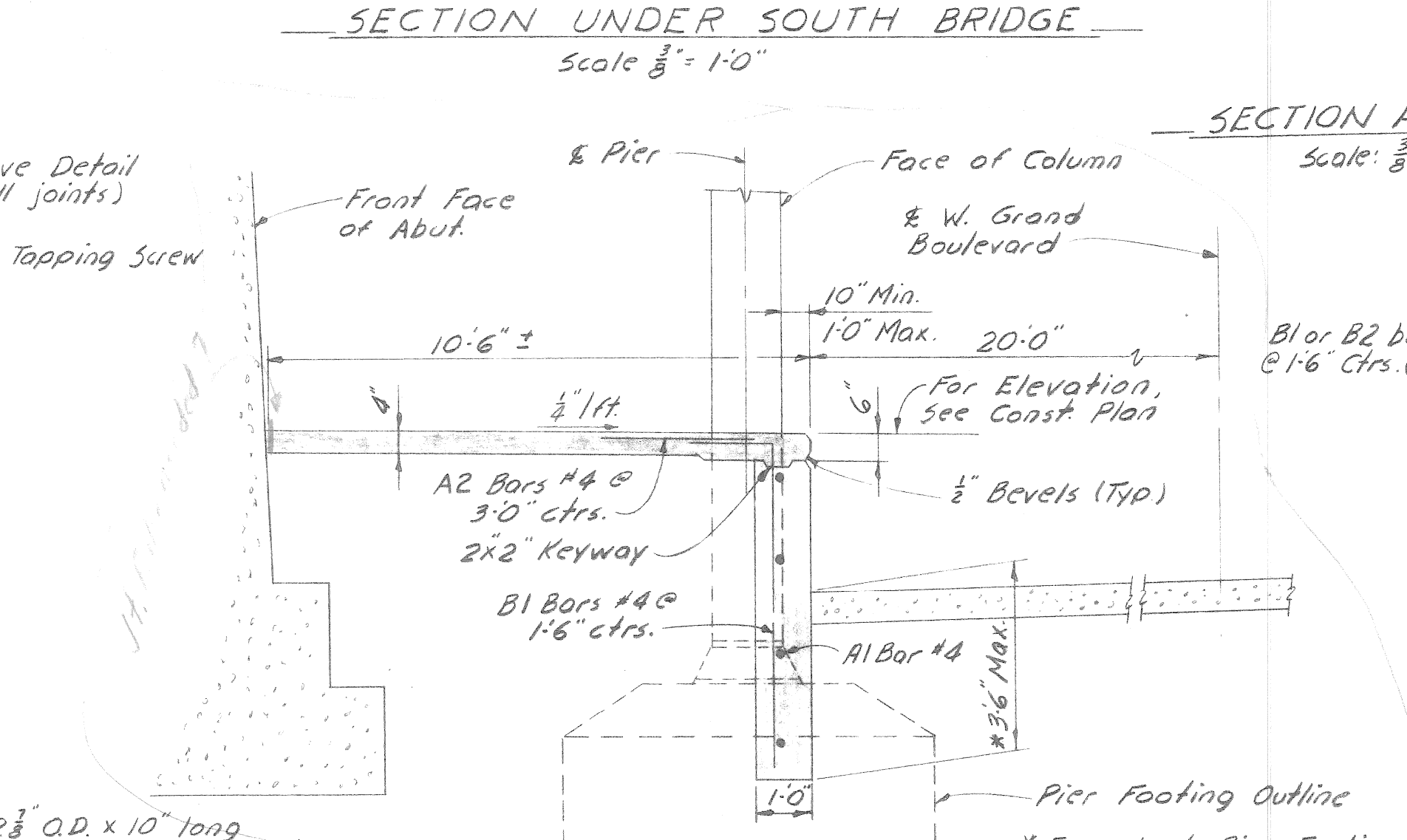
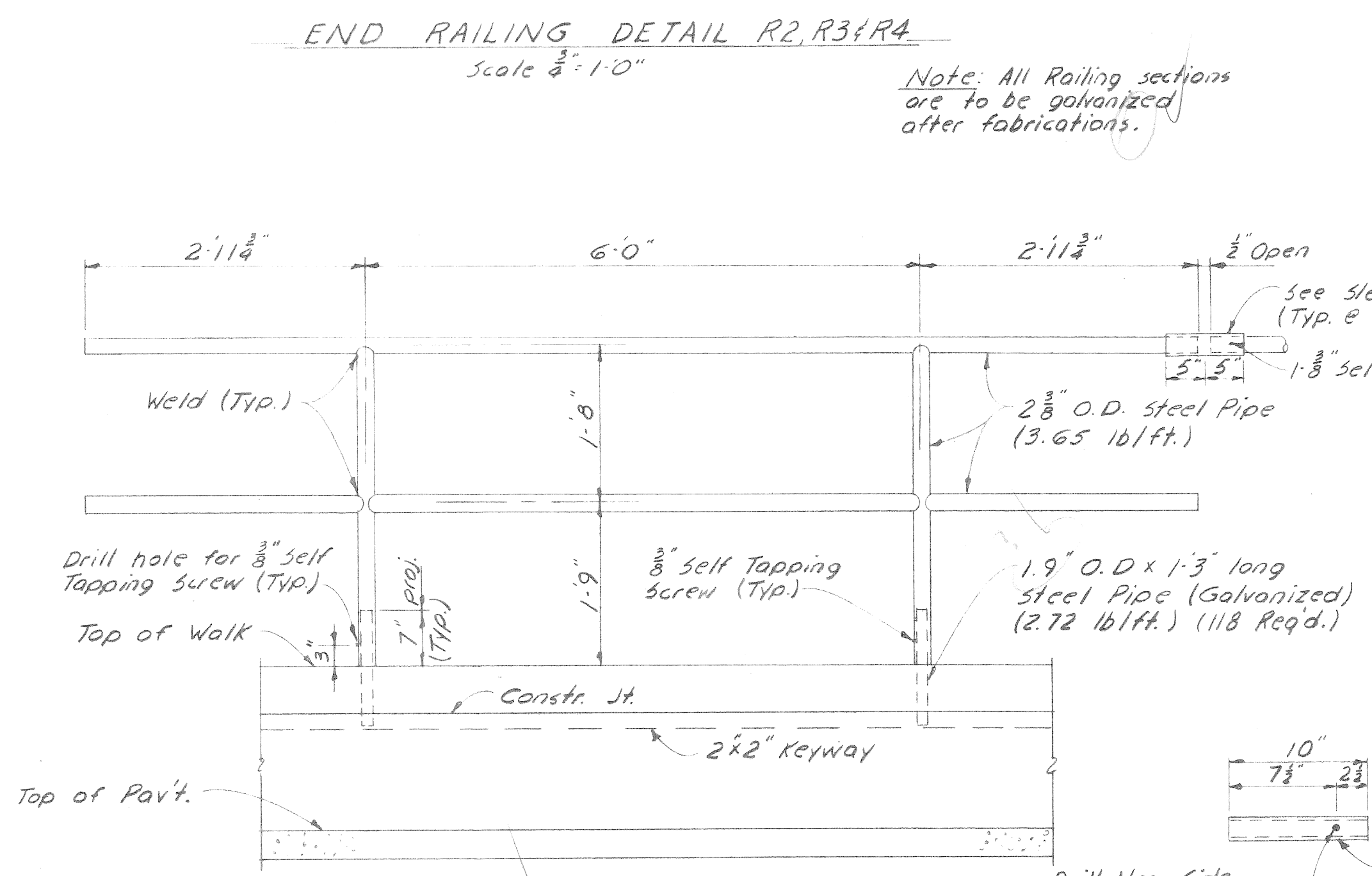
- New Sidewalk
- New Curb
- New Wall
- New Wall & Railing

**QUANTITIES**

Item	Unit	Am't.
Concrete Grade (AGAA)	Cu. Yd.	169
Sidewalk 4"	Sq. Ft.	7822
Railing, 2-Tube	Lin. Ft.	627
Curb, Detail 2	Lin. Ft.	127
Fill (Grade A)	Cu. Yd.	10
Debris Removal	Cu. Yd.	310
Steel Reinforcement	Lbs.	5670

**REINFORCEMENT BAR SCHEDULE**

Bar	a	b	Size	Length	No. Req'd.	length
A1			#4	20'-0"	184	A
A2			#4	3'-0"	275	
A3			#4	6'-0"	32	
B1	6'-0"	1'-6"	#4	7'-6"	358	
B2	4'-0"	1'-6"	#4	5'-6"	201	



COORD	DESCRIPTION	DRN	CHK	APVD	DATE
	REVISIONS LOCATED BY COORDINATES ON SHEET				

DESIGNED BY	D.J.R.	APPROVED:	
DRAWN BY	A.J.G.		
TRACED BY			
CHECKED BY	W.A.L.	HIGHWAY & EXPRESSWAY ENGINEER	

**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAY & EXPRESSWAY DIVISION

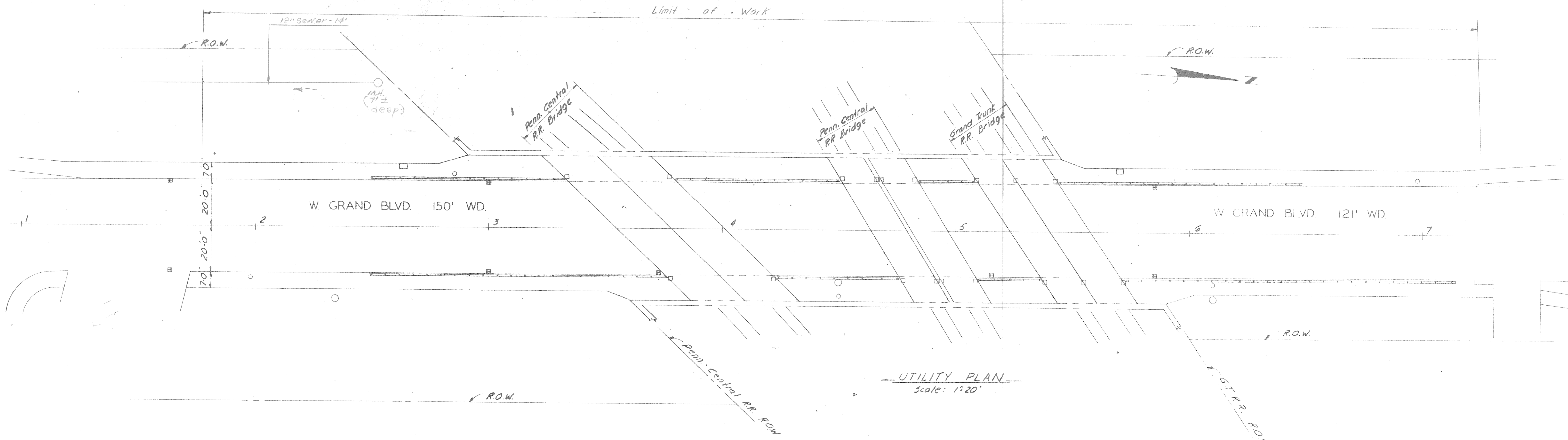
**SIDEWALK, CURB & RAILING REPAIR**

**WEST GRAND BOULEVARD UNDER XU-27  
 PENN CENTRAL & G.T.W. BRIDGES**

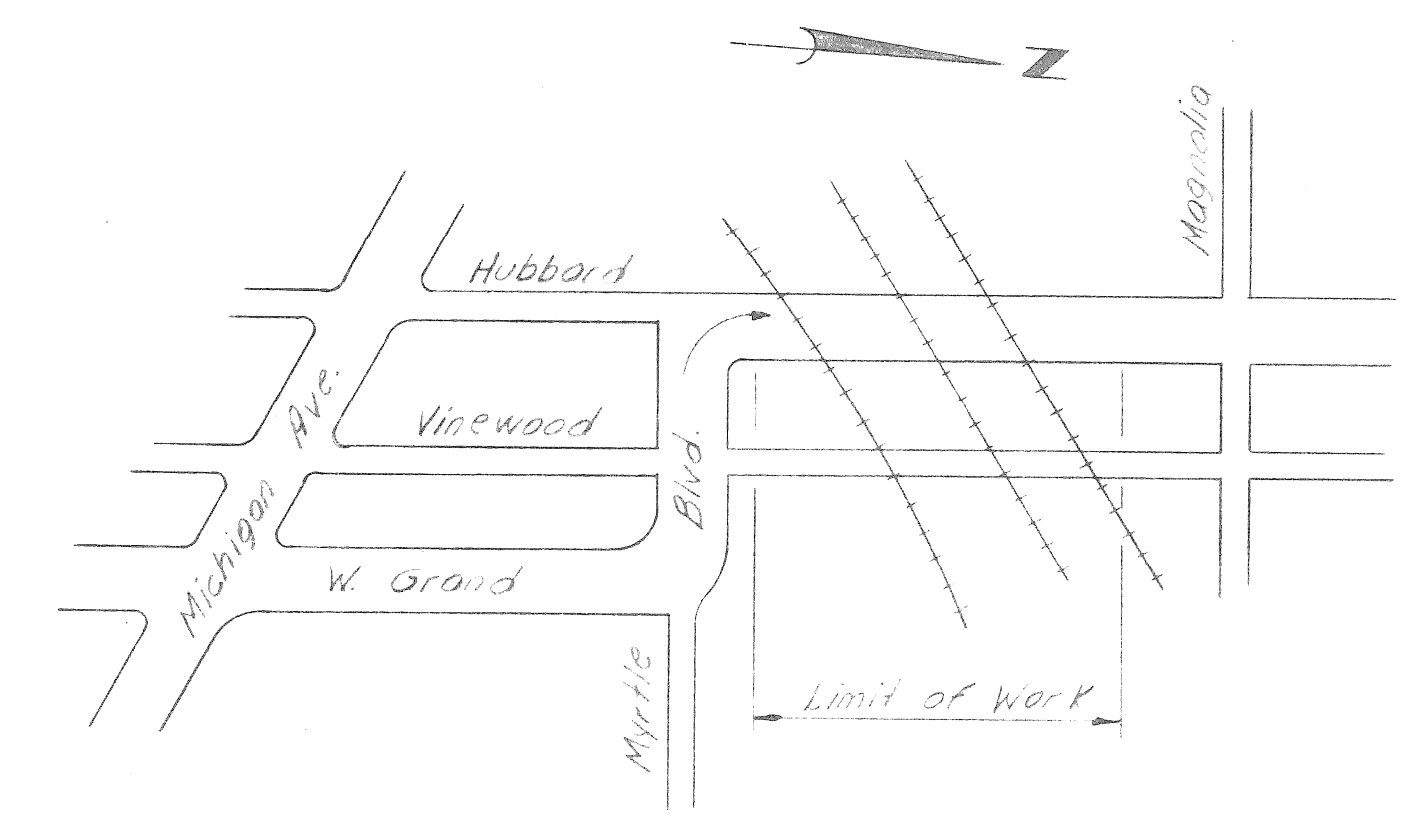
**CONSTRUCTION PLAN**

SHEET 3 OF 3 SHEETS  
 JOB No. AO-1871  
 DRWG No. 3  
 DATE JULY 1969





UTILITY PLAN  
Scale: 1"=20'

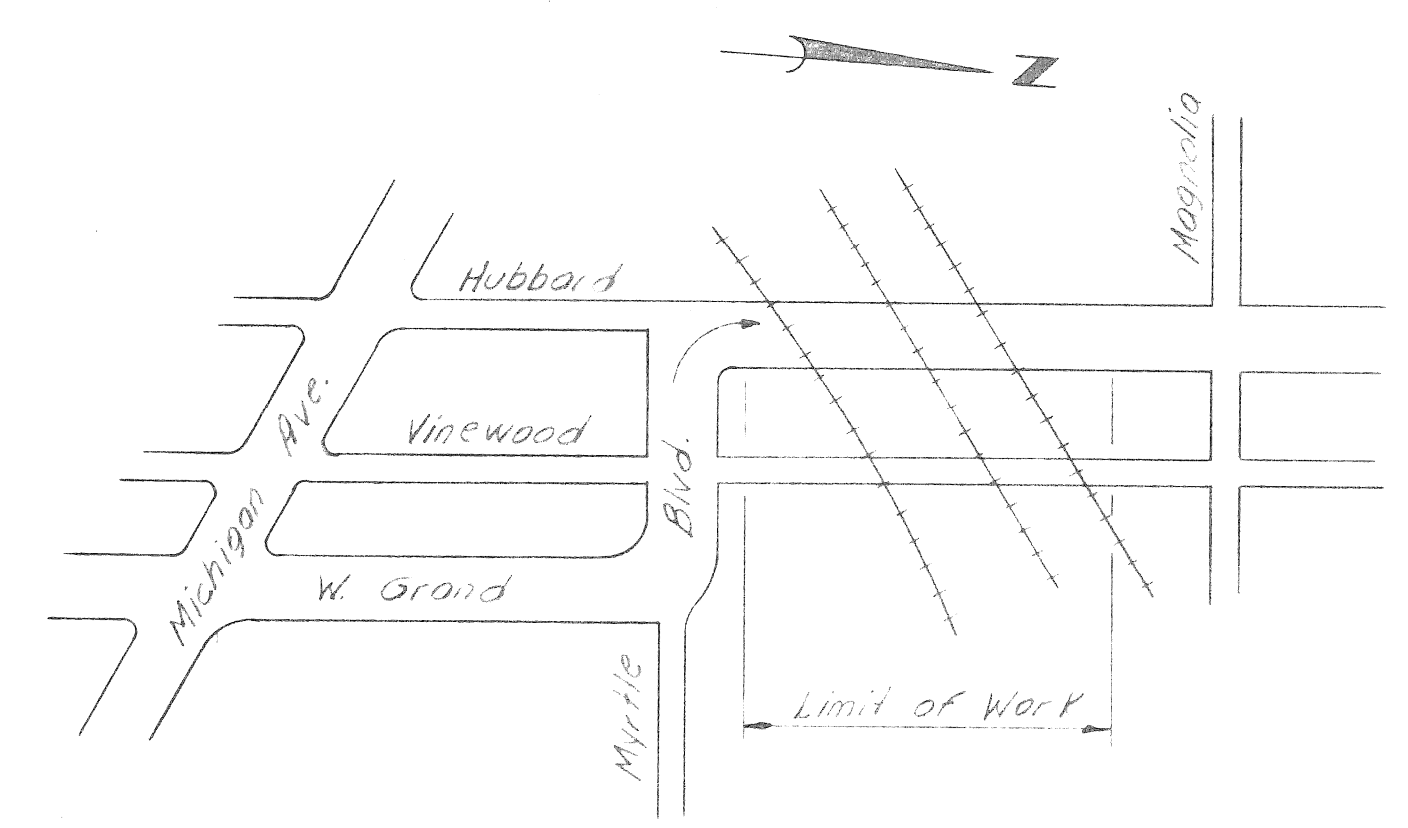
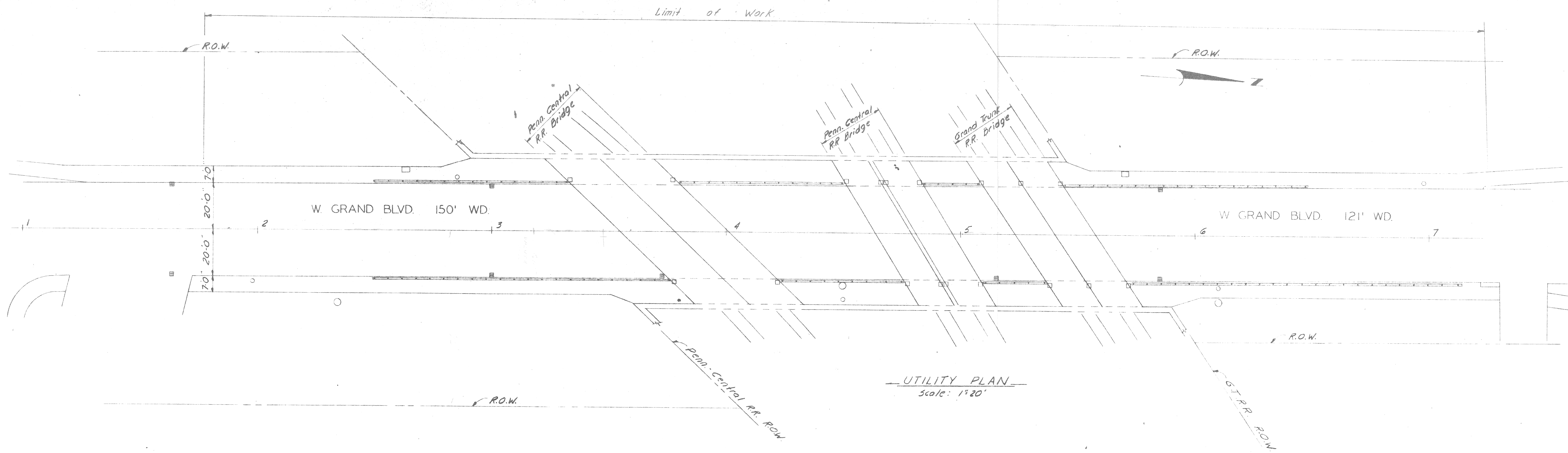


LOCATION PLAN  
No Scale

Revised June 18, 1961

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	DESCRIPTION	DATE	BY																																		
DESIGNED BY																																					
DRAWN BY																																					
TRACED BY																																					
CHECKED BY																																					
APPROVED:																																					
SHEET 1 OF 3 SHEETS																																					
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DRWG No. 1																																					
DATE June 1961																																					
<p align="center">SIDEWALK, CURB &amp; RAILING REPAIR</p>			<p align="center">GENERAL DRAWING</p>																																		
<p align="center">HIGHWAY &amp; EXPRESSWAY ENGINEER</p>																																					
<p>REVISIONS LOCATED BY COORDINATES ON SHEET</p>																																					





FACILITIES OF THE DETROIT DEPARTMENT OF WATER SUPPLY AS SHOWN ON THIS DRAWING INDICATE LOCATIONS AS DISCLOSED BY THE DEPARTMENT'S RECORDS ONLY AND NO GUARANTEE IS MADE AS TO COMPLETENESS OR ACCURACY. WHEREVER IT IS INDICATED THAT CLEARANCES OR INTERFERENCES MAY BE CRITICAL, MAINS AND APPURTENANCES SHOULD BE EXPOSED AND THEIR LOCATIONS DETERMINED BY FIELD MEASUREMENTS. BEFORE EXPOSURE, HOWEVER, APPROVAL SHALL FIRST BE OBTAINED, IN EACH INSTANCE, FROM THE UNDERSIGNED.

CITY OF DETROIT  
DEPARTMENT OF WATER SUPPLY  
BY: *Boehring* DATE: *6/16/69*

L  
IHS  
WL

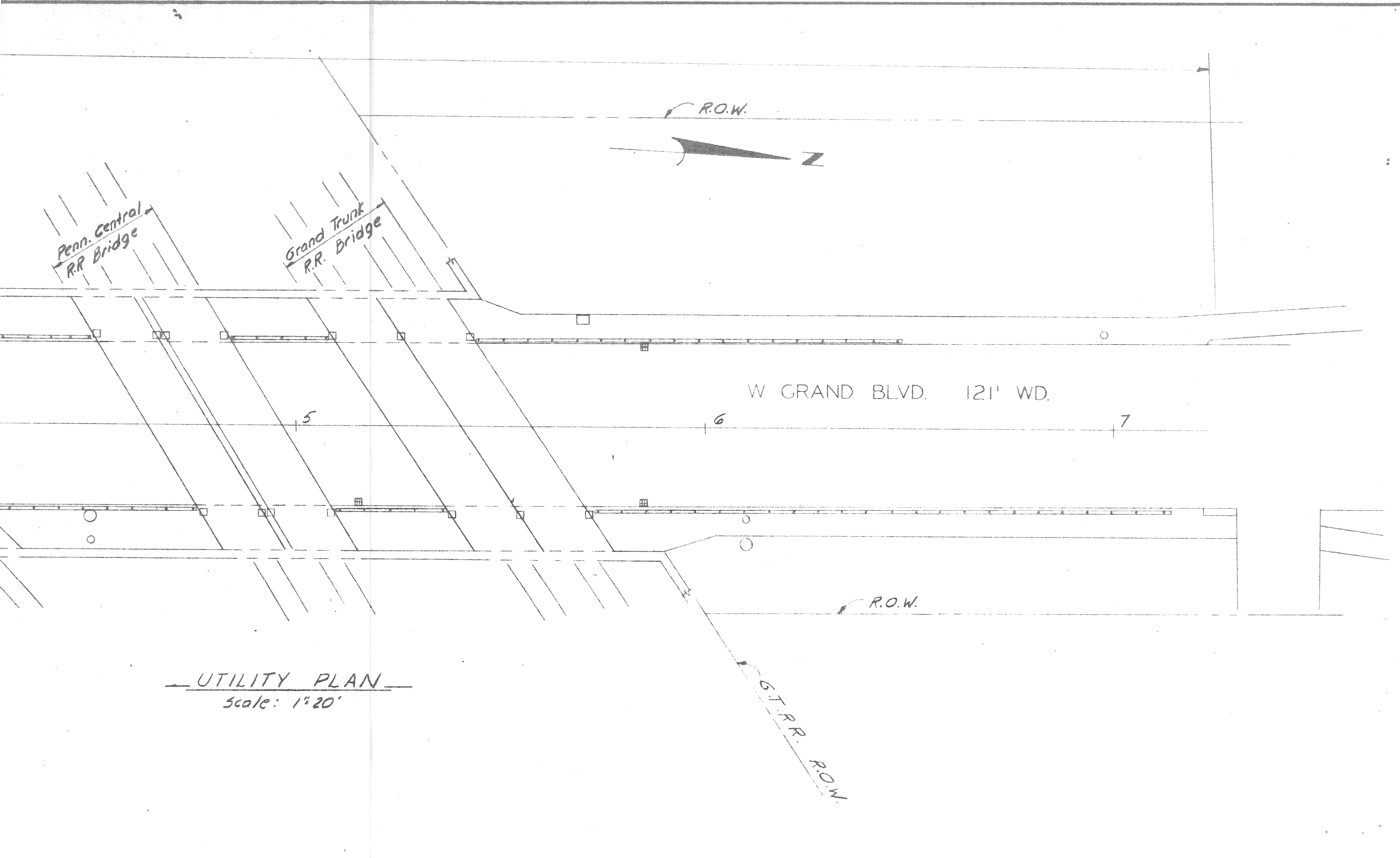
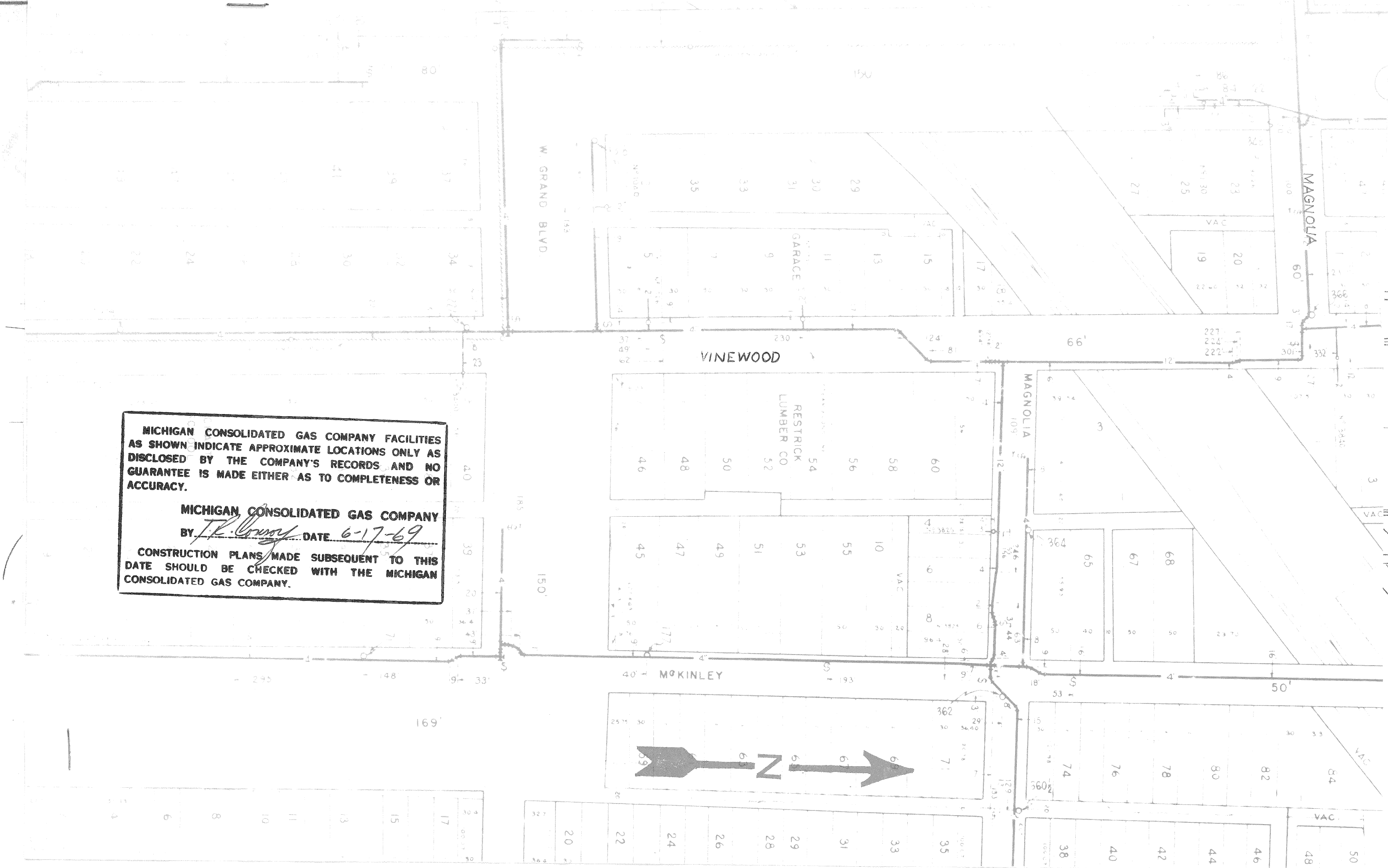
Revised June 19, 1969

REVISIONS LOCATED BY COORDINATES ON SHEET NO. DATE BY	DESIGNED BY	APPROVED:	<b>CITY OF DETROIT</b> DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION SIDEWALK, CURB & RAILING REPAIR	WEST GRAND BOULEVARD UNDER XU-27 PENN CENTRAL & GTW BRIDGES GENERAL DRAWING	SHEET 1 OF 3 SHEETS
	DRAWN BY				JOB No. 10314
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	CHECKED BY				DATE 6/19/69

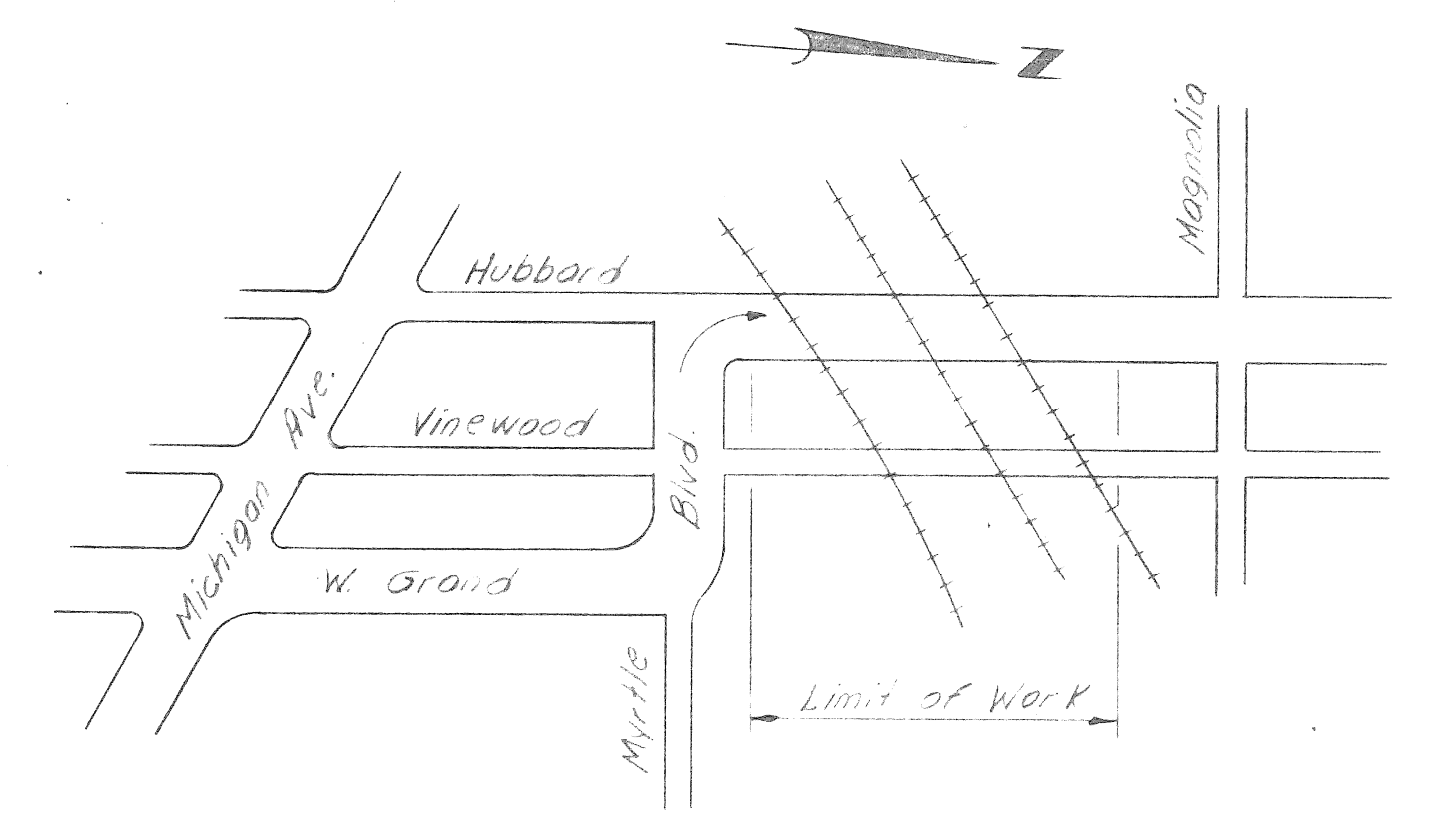


MICHIGAN CONSOLIDATED GAS COMPANY FACILITIES AS SHOWN INDICATE APPROXIMATE LOCATIONS ONLY AS DISCLOSED BY THE COMPANY'S RECORDS AND NO GUARANTEE IS MADE EITHER AS TO COMPLETENESS OR ACCURACY.

MICHIGAN CONSOLIDATED GAS COMPANY  
 BY *J.R. Conroy* DATE *6-17-69*  
 CONSTRUCTION PLANS MADE SUBSEQUENT TO THIS DATE SHOULD BE CHECKED WITH THE MICHIGAN CONSOLIDATED GAS COMPANY.



UTILITY PLAN  
 Scale: 1"=20'



LOCATION PLAN  
 No Scale

*Rec'd 6/23/69*

NO.	DESCRIPTION	BY	CHK	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWING	DESIGNED BY	APPROVED
	DRAWN BY	
	TRACED BY	
	CHECKED BY	

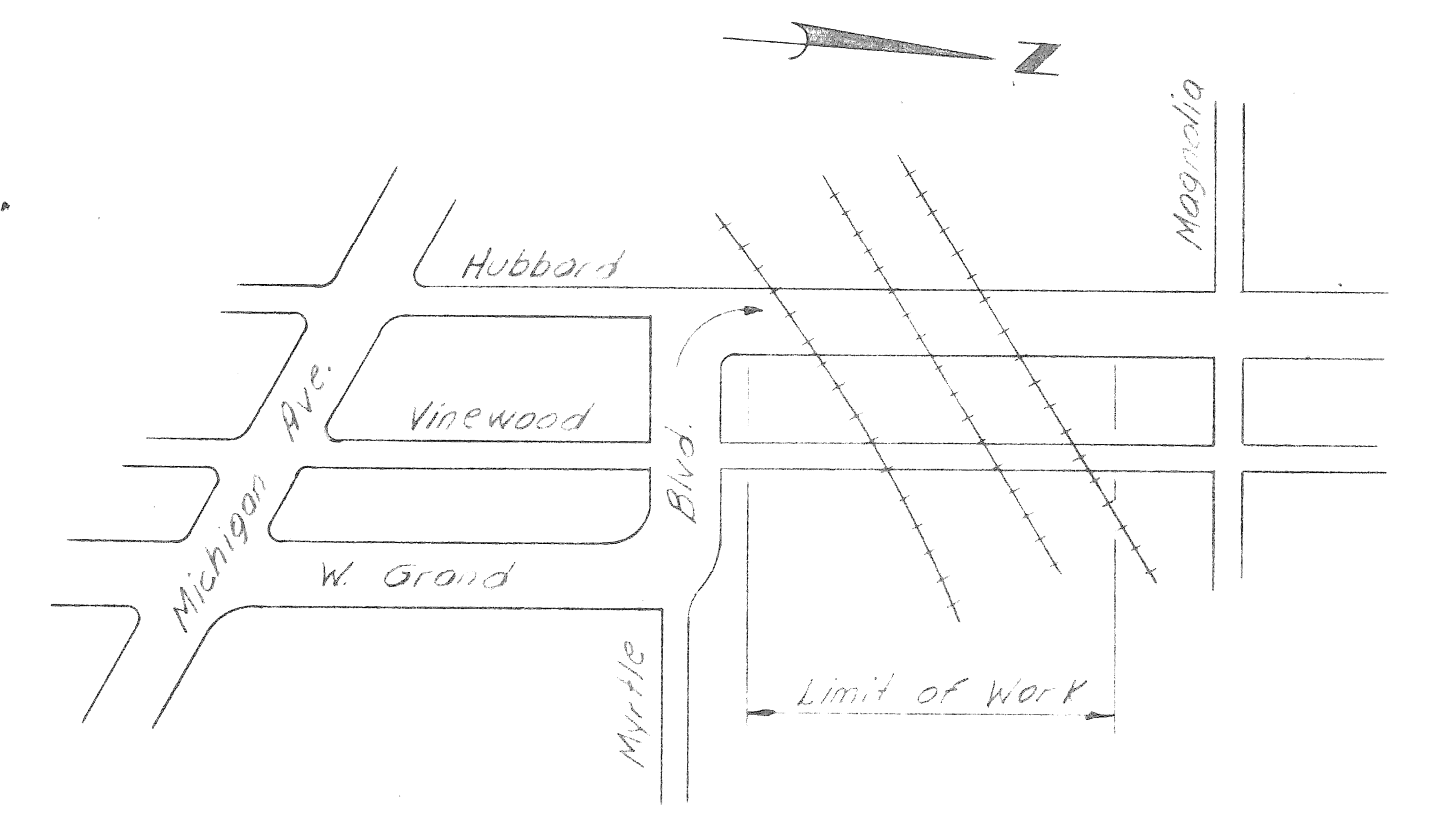
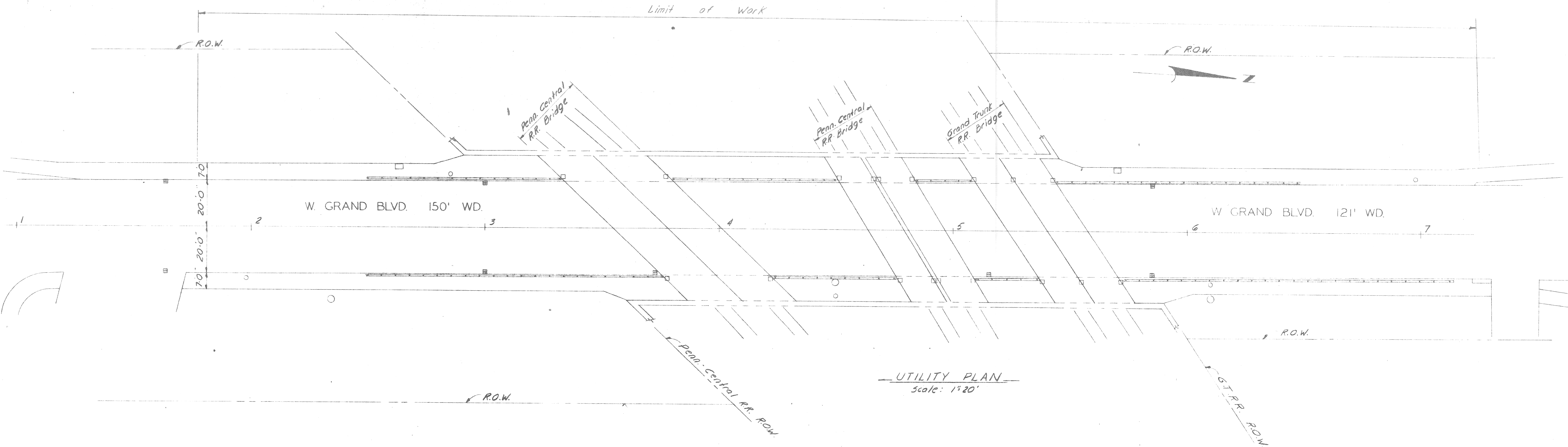
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAY & EXPRESSWAY DIVISION

SIDEWALK, CURB & RAILING REPAIR

WEST GRAND BOULEVARD UNDER XU-27  
 PENN CENTRAL & GTW BRIDGES

GENERAL DRAWING

SHEET <u>1</u> OF <u>3</u> SHEETS
JOB No. AO 1871
DRWG No. 1
DATE <i>June 1969</i>

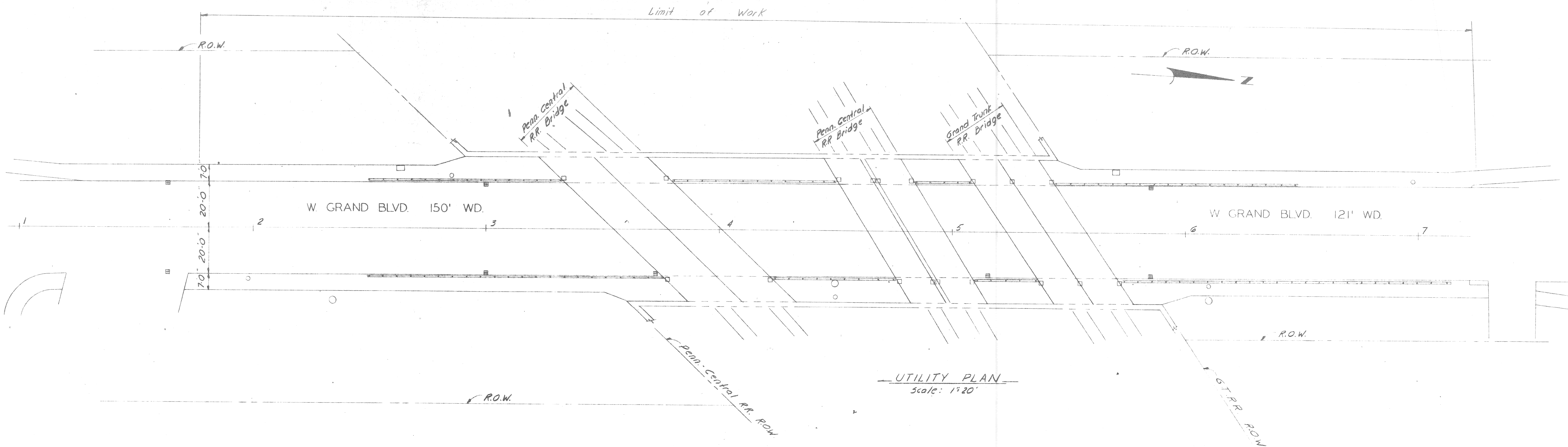


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IHSV  
WL

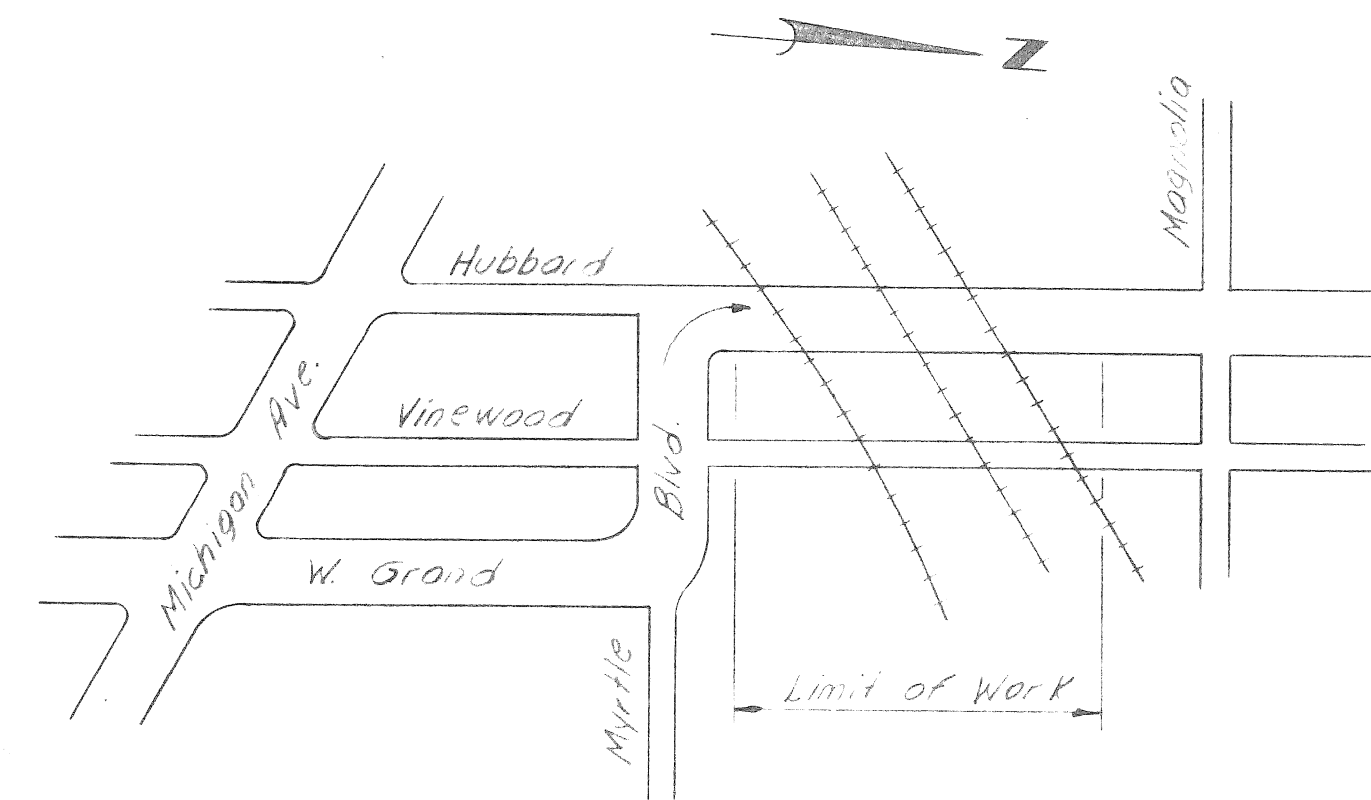
*Handwritten notes:*  
 This drawing shows the location of the work on West Grand Boulevard under the Penn Central and Grand Trunk bridges. The work is to be done on the sidewalks, curbs and railings. The drawing is a general drawing and does not show the details of the work.

<table border="1"> <tr> <td>NO.</td> <td>DESCRIPTION</td> <td>DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DESCRIPTION	DATE										REFERENCE DRAWINGS DESIGNED BY DRAWN BY TRACED BY CHECKED BY	APPROVED: HIGHWAY & EXPRESSWAY ENGINEER	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION SIDEWALK, CURB & RAILING REPAIR	WEST GRAND BOULEVARD UNDER XU-27 PENN CENTRAL & GTW BRIDGES GENERAL DRAWING	SHEET 1 OF 3 SHEETS JOB No. A01371 DRWG No. 1 DATE June 1969
NO.	DESCRIPTION	DATE																





UNDERGROUND CONSTRUCTION IS SHOWN AS ACCURATELY AS POSSIBLE FROM UNDERGROUND RECORDS. PROCEED WITH CAUTION IN PROXIMITY. MICHIGAN BELL TELEPHONE CO. CHECKED BY *[Signature]* DATE 7/1/69  
**NO TELEPHONE OBSTRUCTIONS IN THIS AREA.**



Rec'd 7/12/69

NO.	DESCRIPTION	DATE

DESIGNED BY	
DRAWN BY	
TRACED BY	
CHECKED BY	

APPROVED:	
HIGHWAY & EXPRESSWAY ENGINEER	

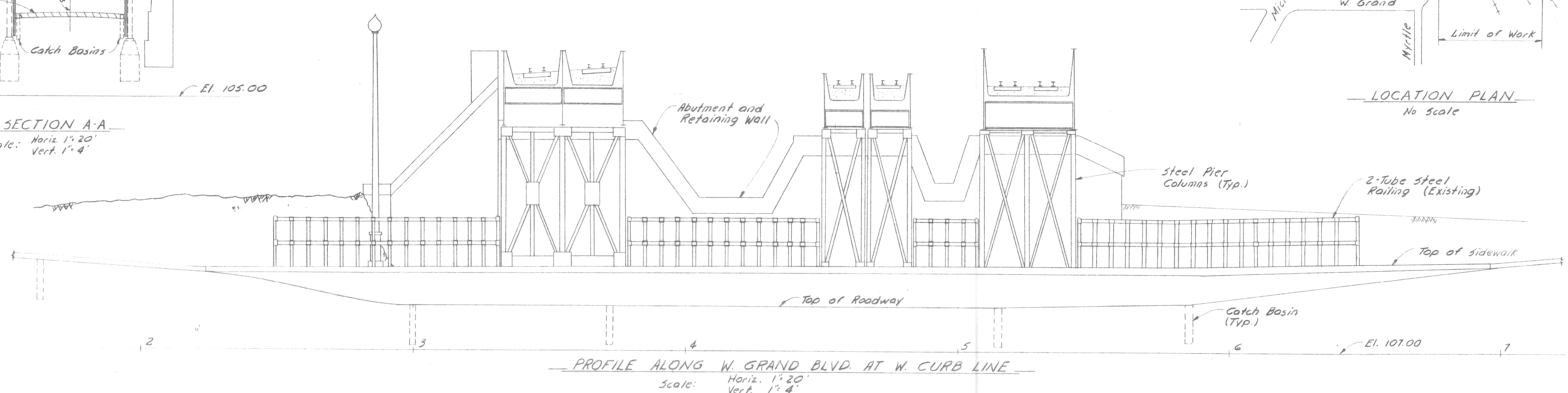
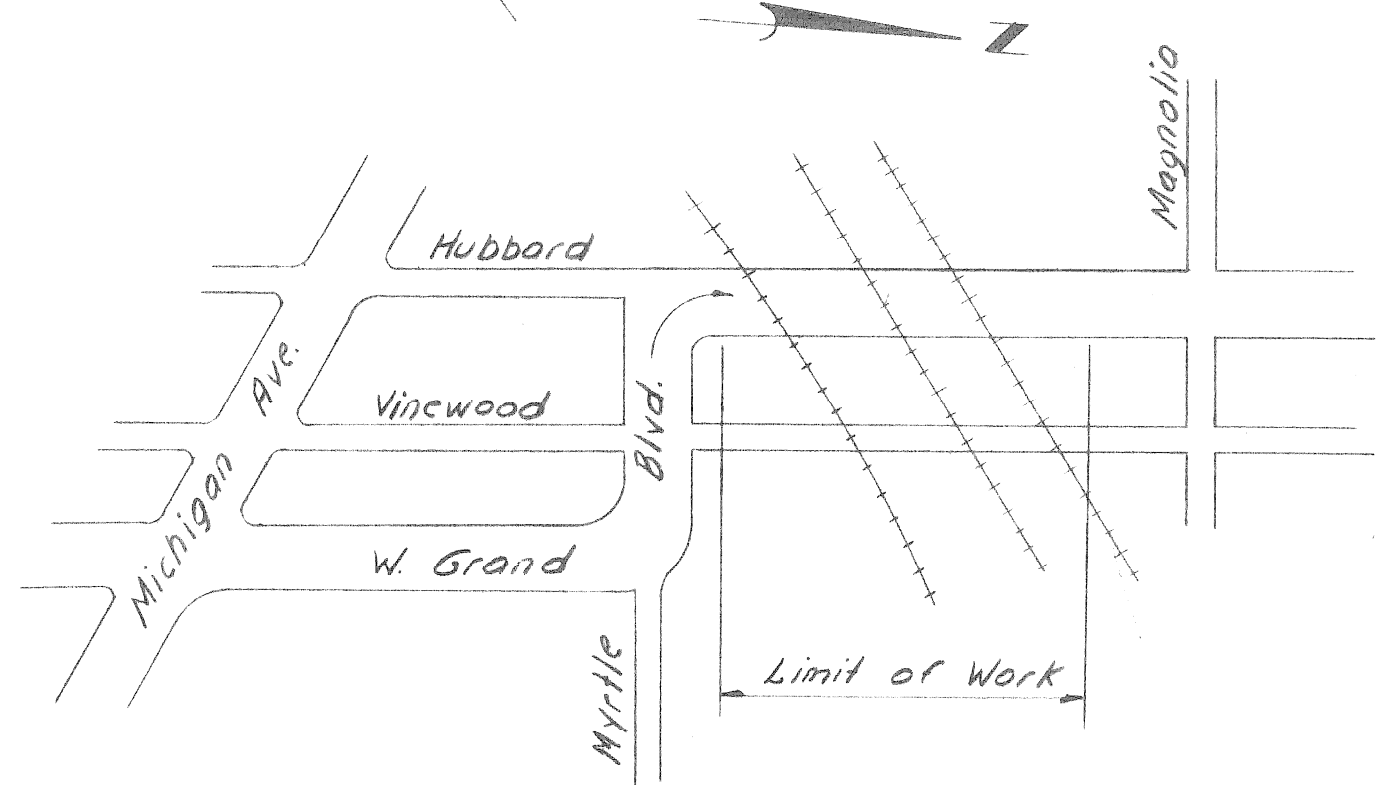
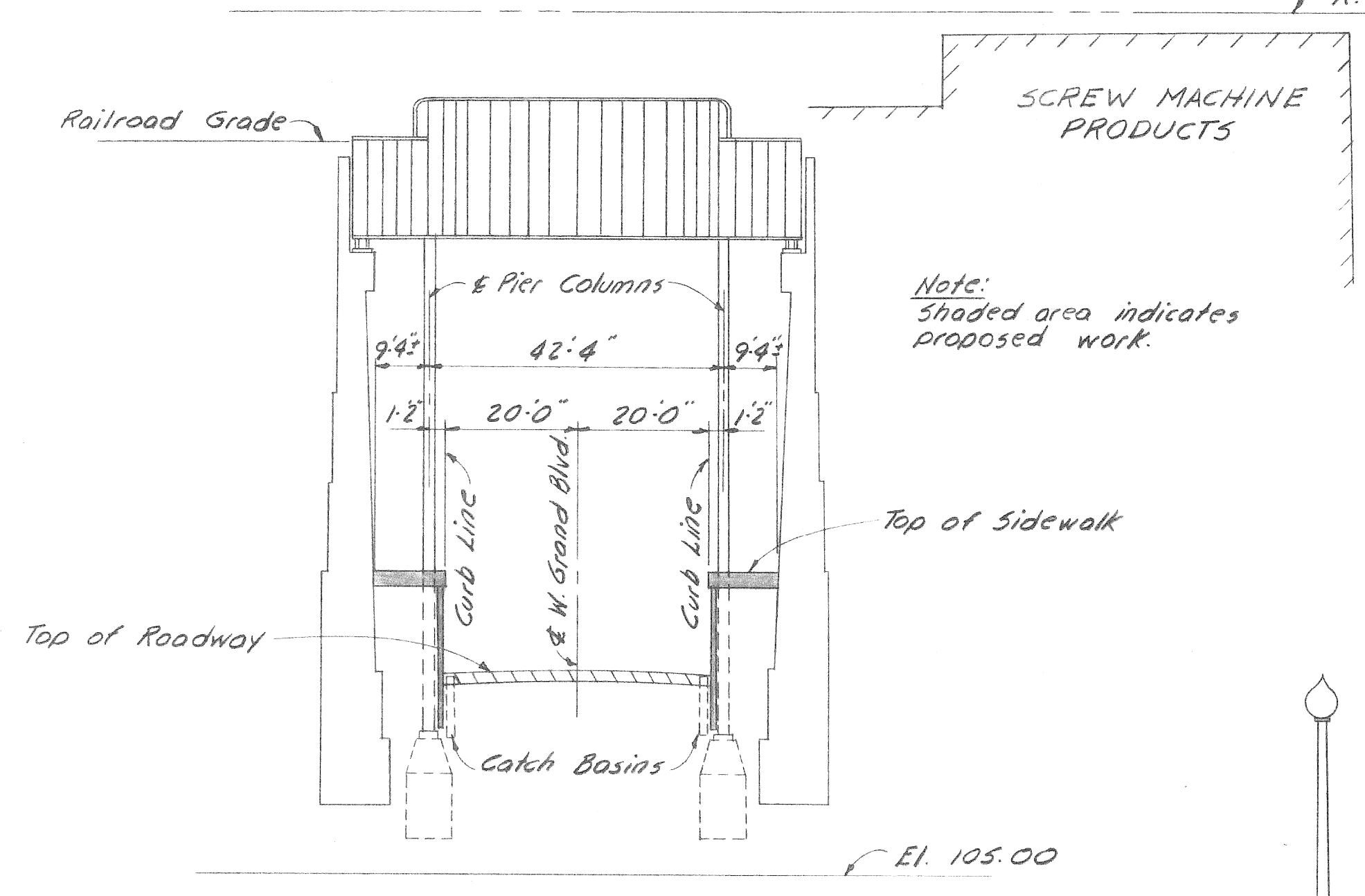
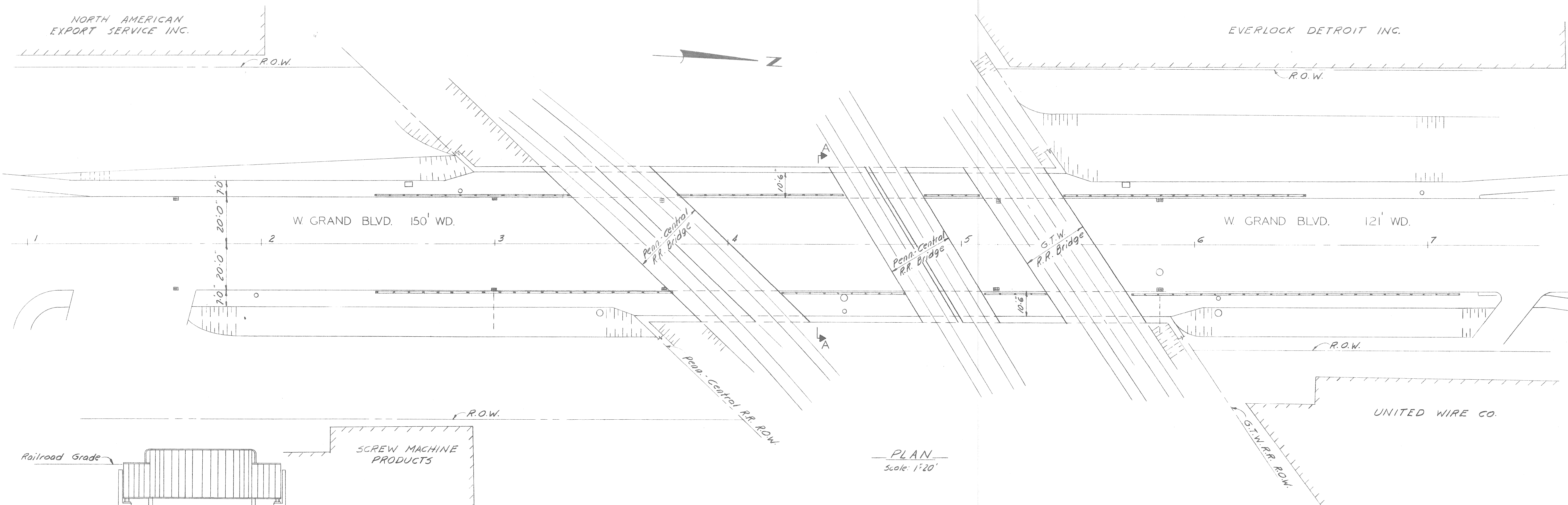
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAY & EXPRESSWAY DIVISION

SIDEWALK, CURB & RAILING REPAIR

WEST GRAND BOULEVARD UNDER XU-27  
 PENN CENTRAL & GTW BRIDGES

GENERAL DRAWING

SHEET 1 OF 3 SHEETS
JOB No. AD 1371
DRWG No. 1
DATE June 1969

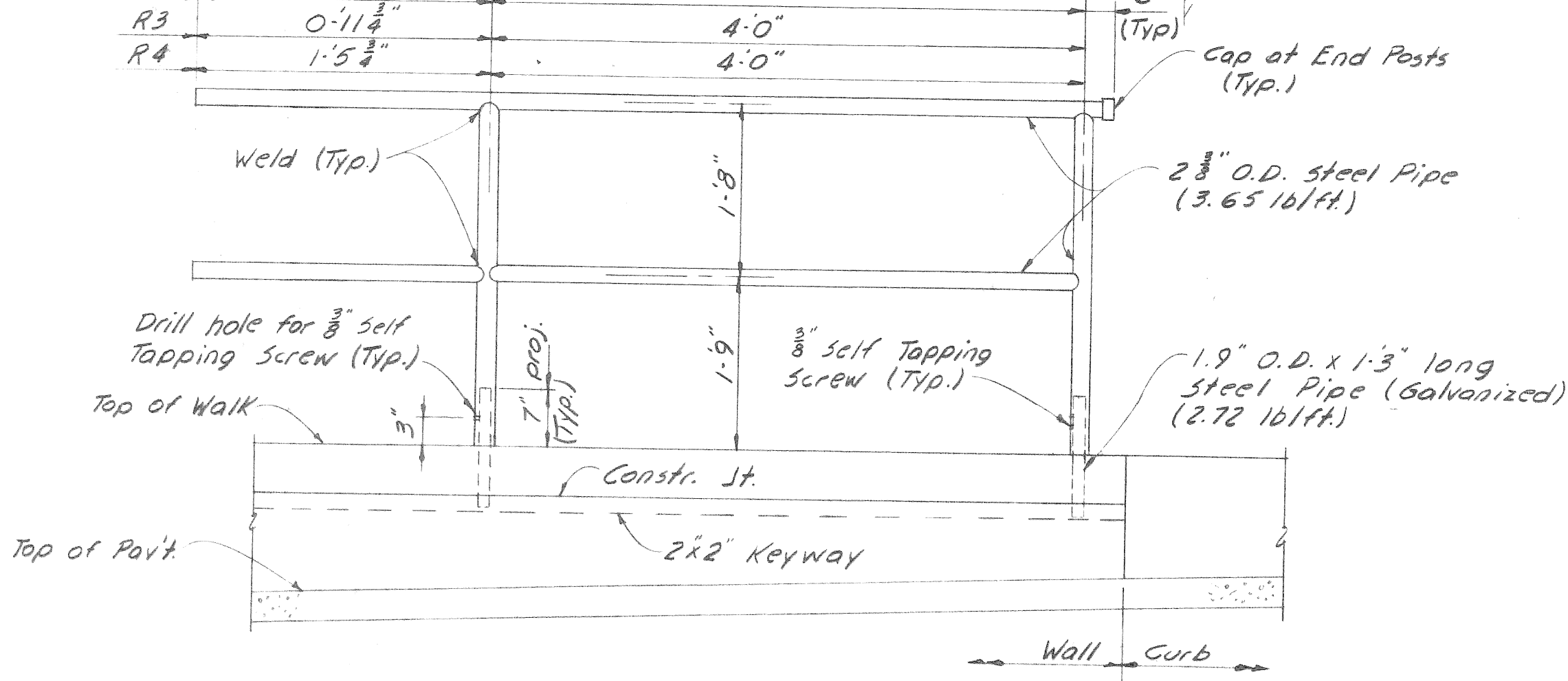
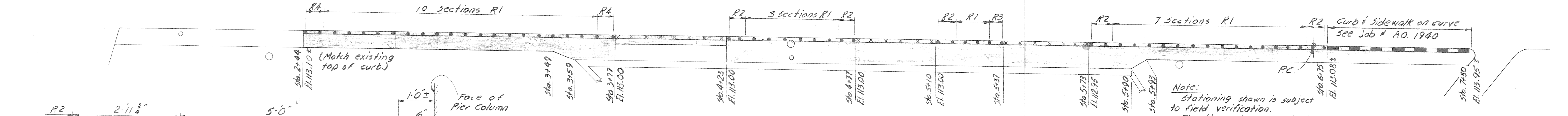
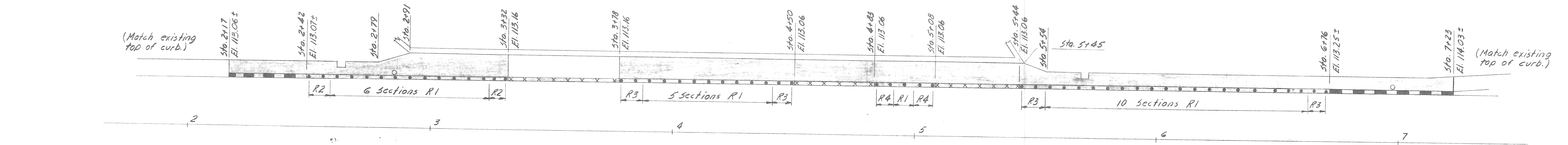
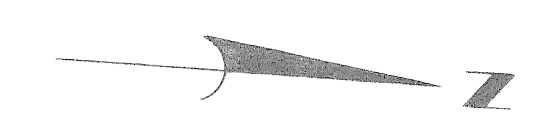


REVISIONS LOCATED BY COORDINATES ON SHEET	DESIGNED BY	D. J. R.	APPROVED:	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION <b>SIDEWALK, CURB &amp; RAILING REPAIR</b>	WEST GRAND BOULEVARD UNDER BRIDGE XU-27 PENN CENTRAL & G.T.W. RAILROADS <b>GENERAL DRAWING</b>	SHEET 1 OF 3 SHEETS
	DRAWN BY	A. J. G.	JOB No. AO-1871			
	TRACED BY	—	DRWG No. 1			
	CHECKED BY	W. A. L.	DATE JULY 1969			

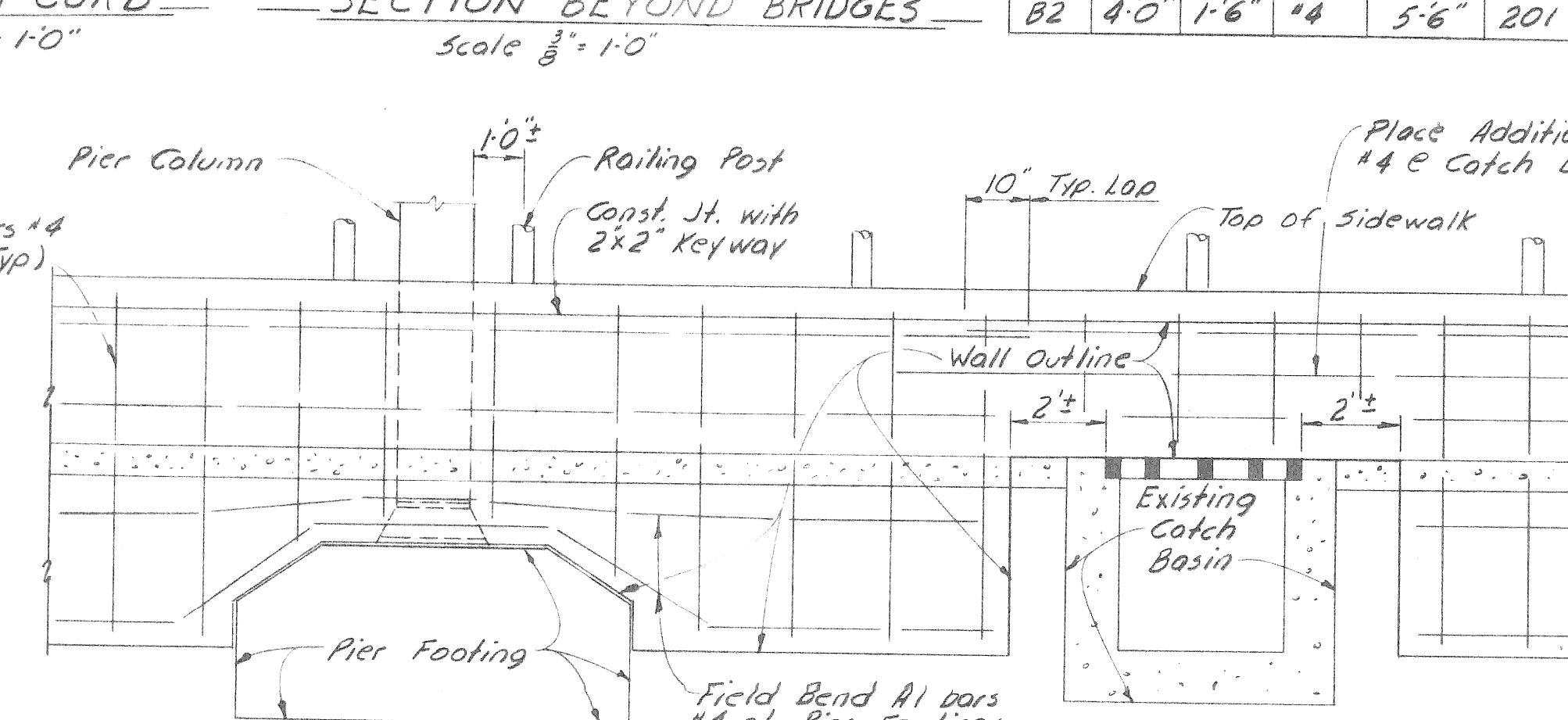
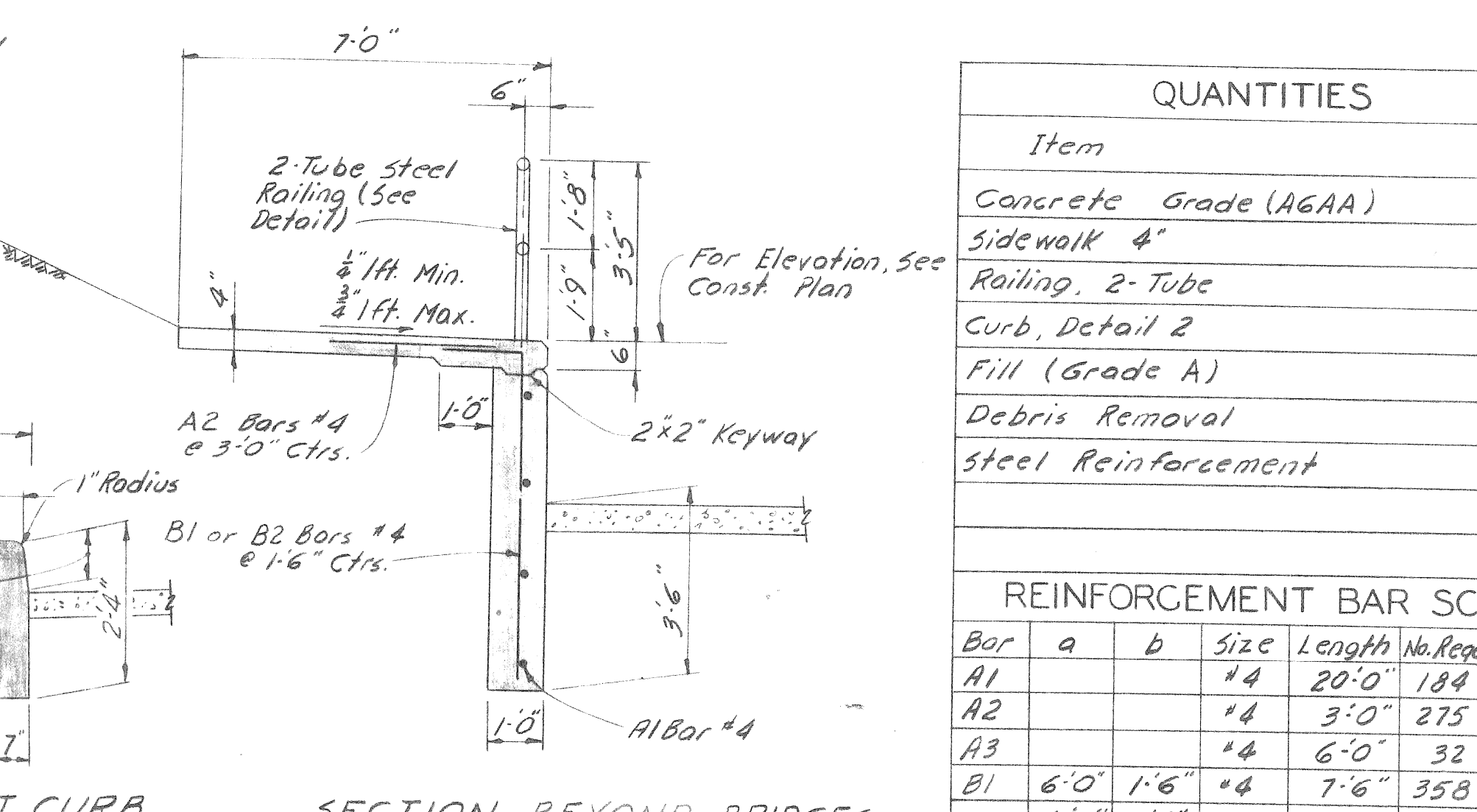
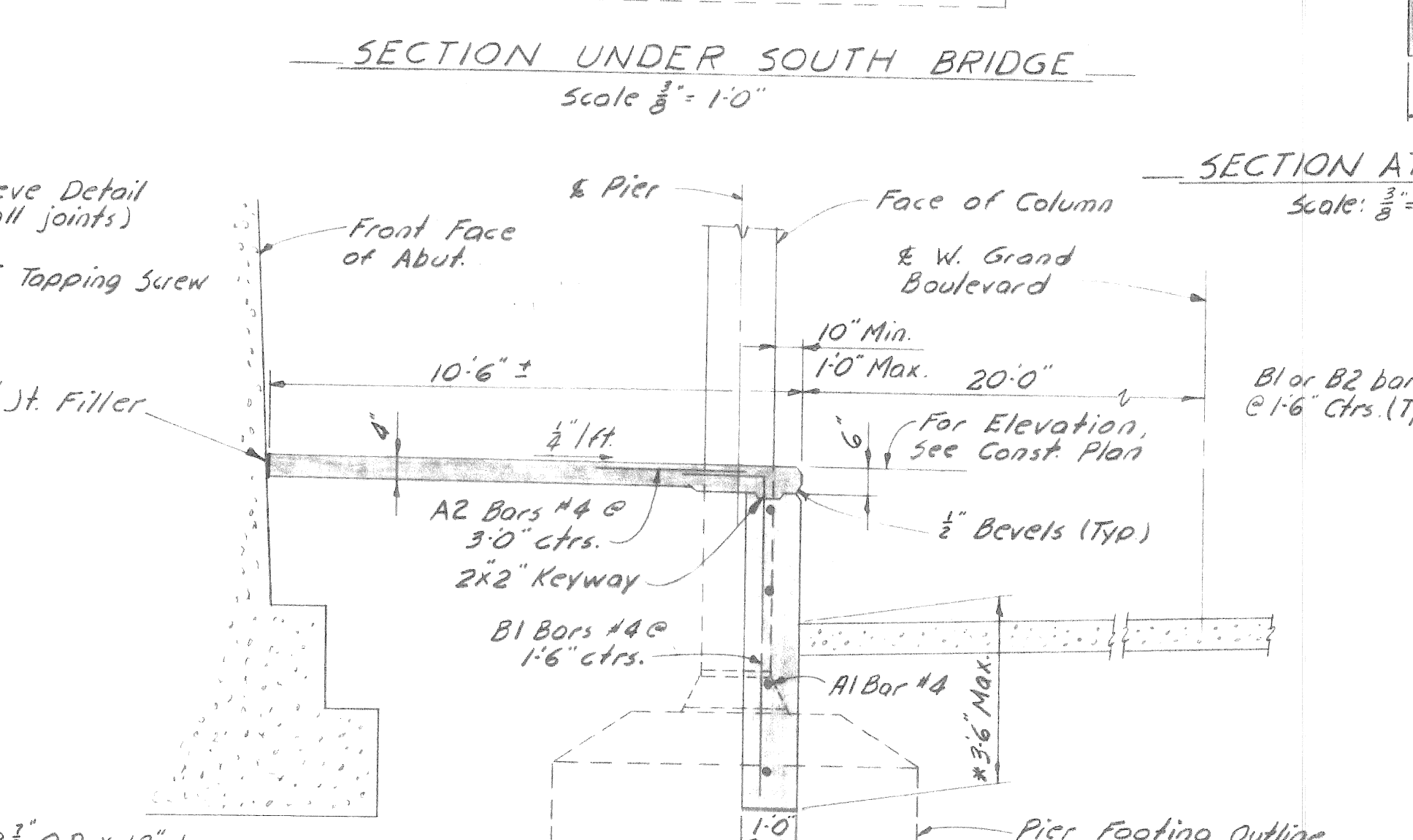
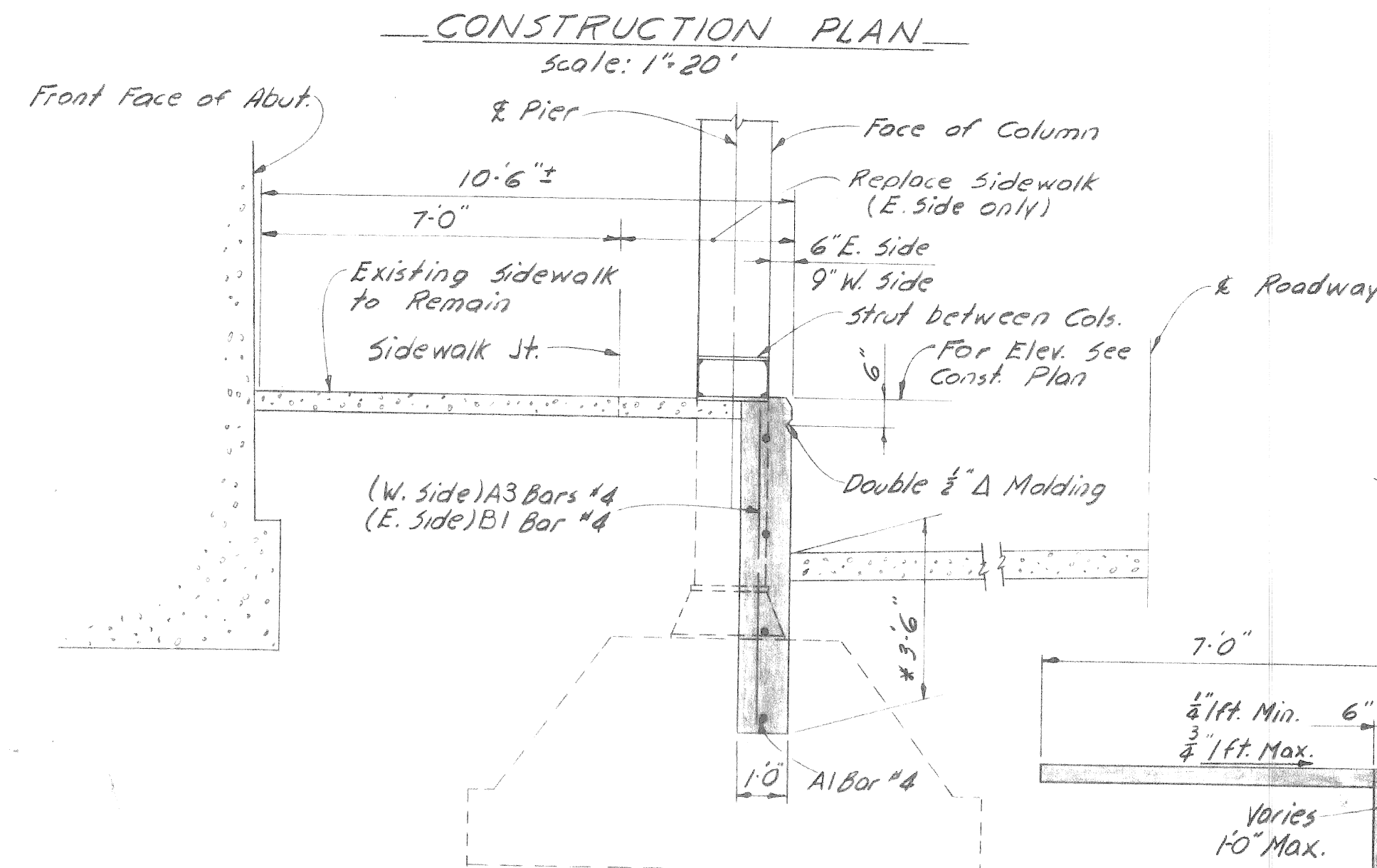
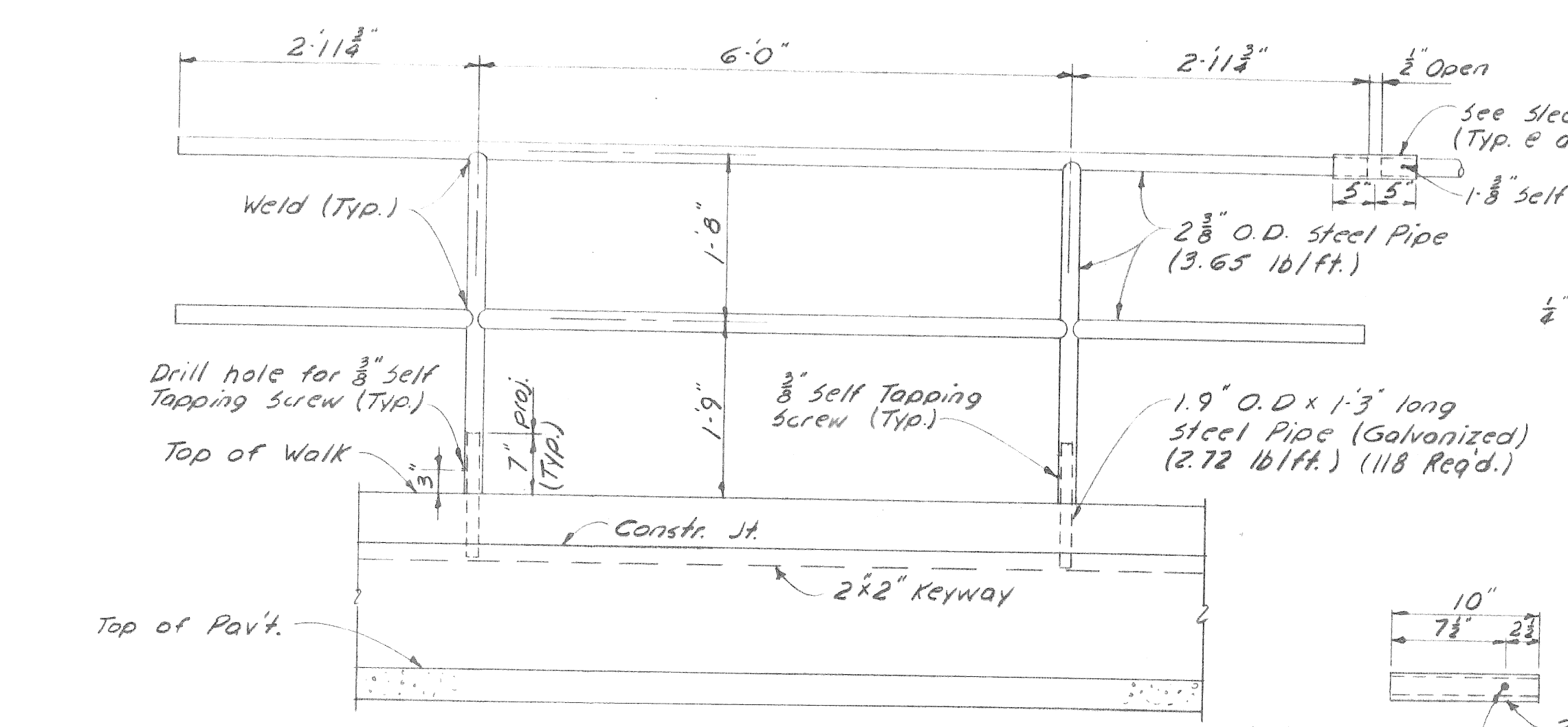








Note: All Railing sections are to be galvanized after fabrication.



Note: Stationing shown is subject to field verification. Elevations shown are to top of curb or top of walk at curb line.

**LEGEND**

- New Sidewalk
- New Curb
- New Wall
- New Wall & Railing

**QUANTITIES**

Item	Unit	Am't.
Concrete Grade (A&AA)	Cu. Yd.	169
Sidewalk 4"	Sq. Ft.	7822
Railing, 2-Tube	Lin. Ft.	627
Curb, Detail 2	Lin. Ft.	127
Fill (Grade A)	Cu. Yd.	10
Debris Removal	Cu. Yd.	310
Steel Reinforcement	Lbs.	5670

**REINFORCEMENT BAR SCHEDULE**

Bar	a	b	Size	Length	No. Req'd.	Length
A1			#4	20'-0"	184	A
A2			#4	3'-0"	275	A
A3			#4	6'-0"	32	A
B1	6'-0"	1'-6"	#4	7'-6"	358	B
B2	4'-0"	1'-6"	#4	5'-6"	201	B

NO.	DESCRIPTION	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

DESIGNED BY	D.J.R.
DRAWN BY	A.J.G.
TRACED BY	
CHECKED BY	W.A.L.

APPROVED: HIGHWAY & EXPRESSWAY ENGINEER

**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAY & EXPRESSWAY DIVISION

**SIDEWALK, CURB & RAILING REPAIR**

**WEST GRAND BOULEVARD UNDER BRIDGE XU-27**  
**PENN CENTRAL & G.T.W. RAILROADS**

SHEET 3 OF 3 SHEETS  
 JOB No. AO-1871  
 DRWG No. 3  
 DATE JULY 1969