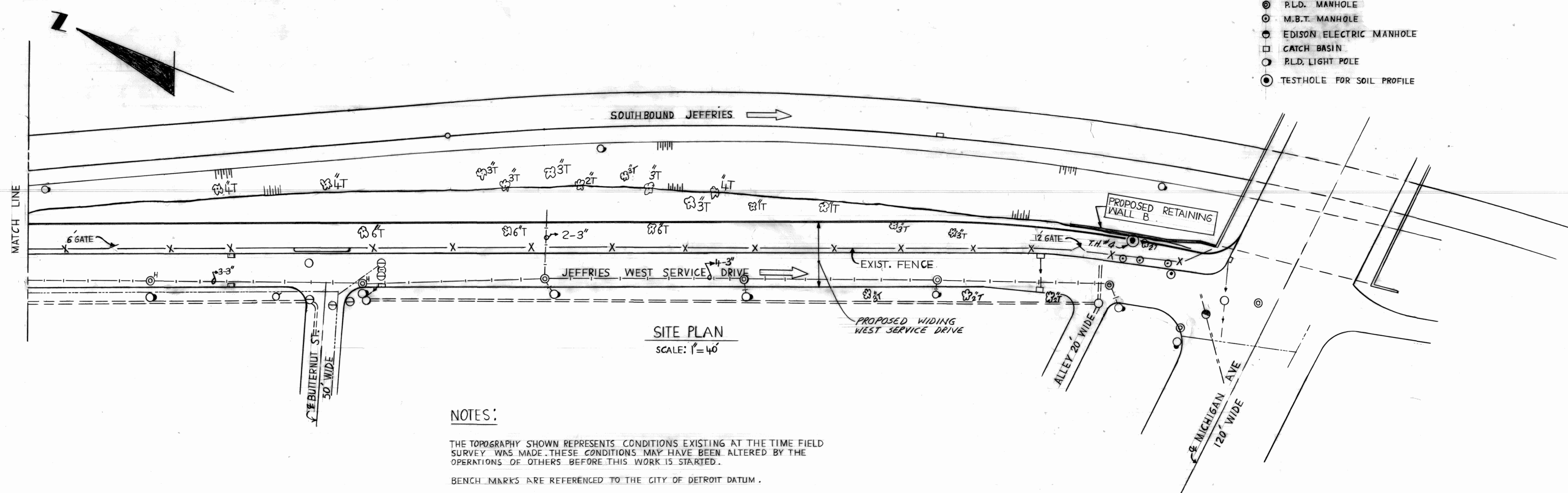


SITE PLAN  
SCALE: 1" = 40'

- LEGEND
- ☉ TREE
  - ✕ SHRUB
  - FENCE
  - SEWER MANHOLE
  - ⊙ WATER MANHOLE OR GRATE
  - ⊙ P.L.D. MANHOLE
  - ⊙ M.B.T. MANHOLE
  - ⊙ EDISON ELECTRIC MANHOLE
  - CATCH BASIN
  - P.L.D. LIGHT POLE
  - ⊙ TESTHOLE FOR SOIL PROFILE



SITE PLAN  
SCALE: 1" = 40'

NOTES:

THE TOPOGRAPHY SHOWN REPRESENTS CONDITIONS EXISTING AT THE TIME FIELD SURVEY WAS MADE. THESE CONDITIONS MAY HAVE BEEN ALTERED BY THE OPERATIONS OF OTHERS BEFORE THIS WORK IS STARTED.

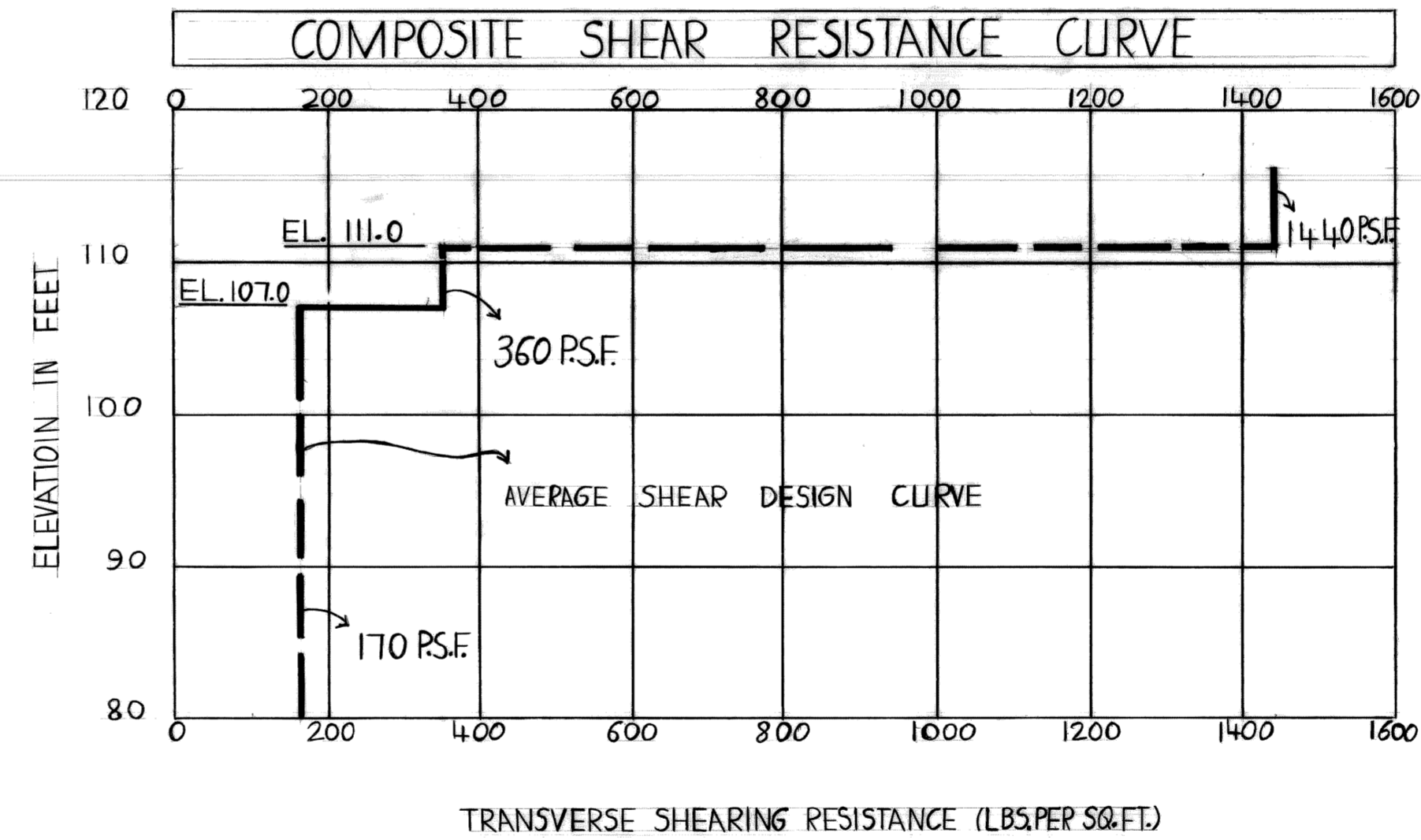
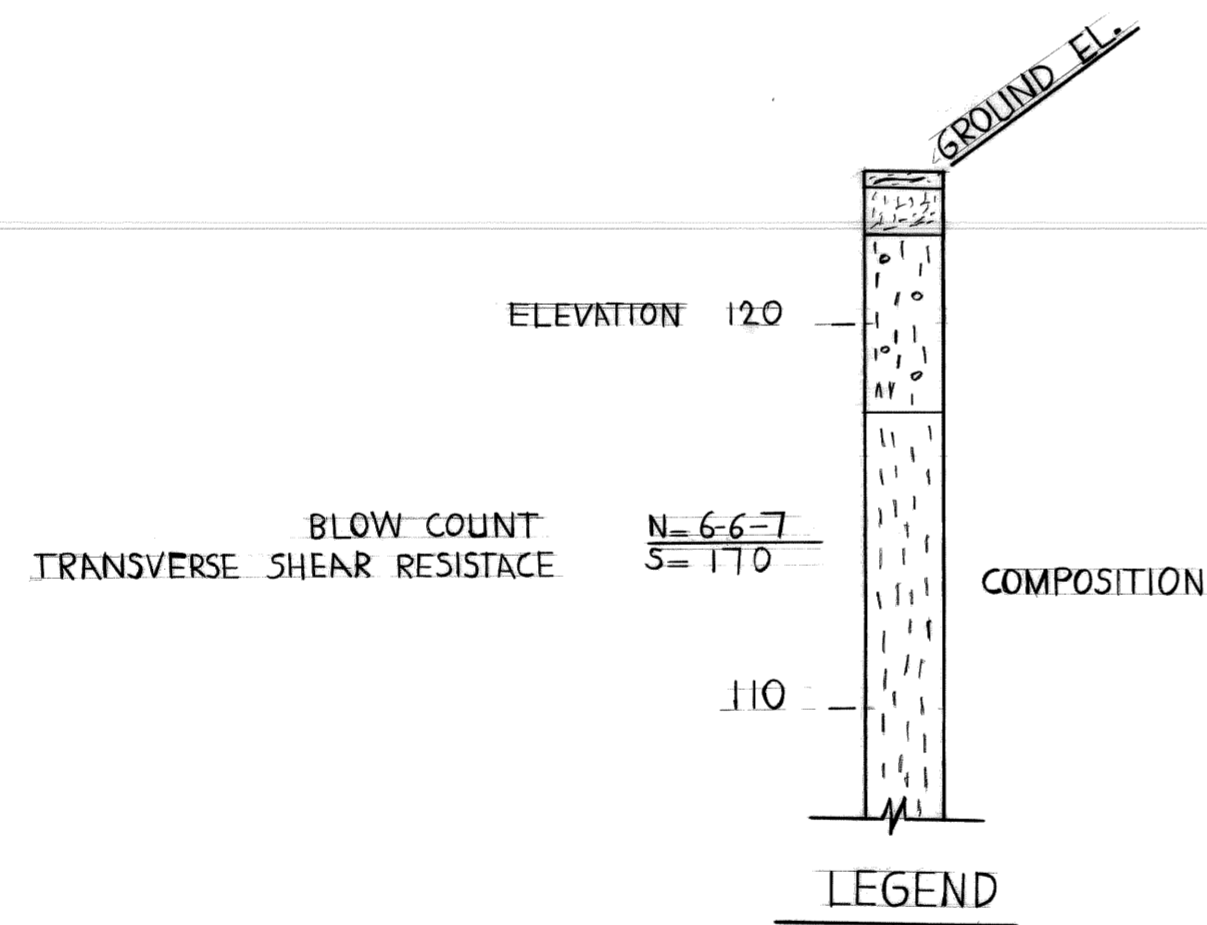
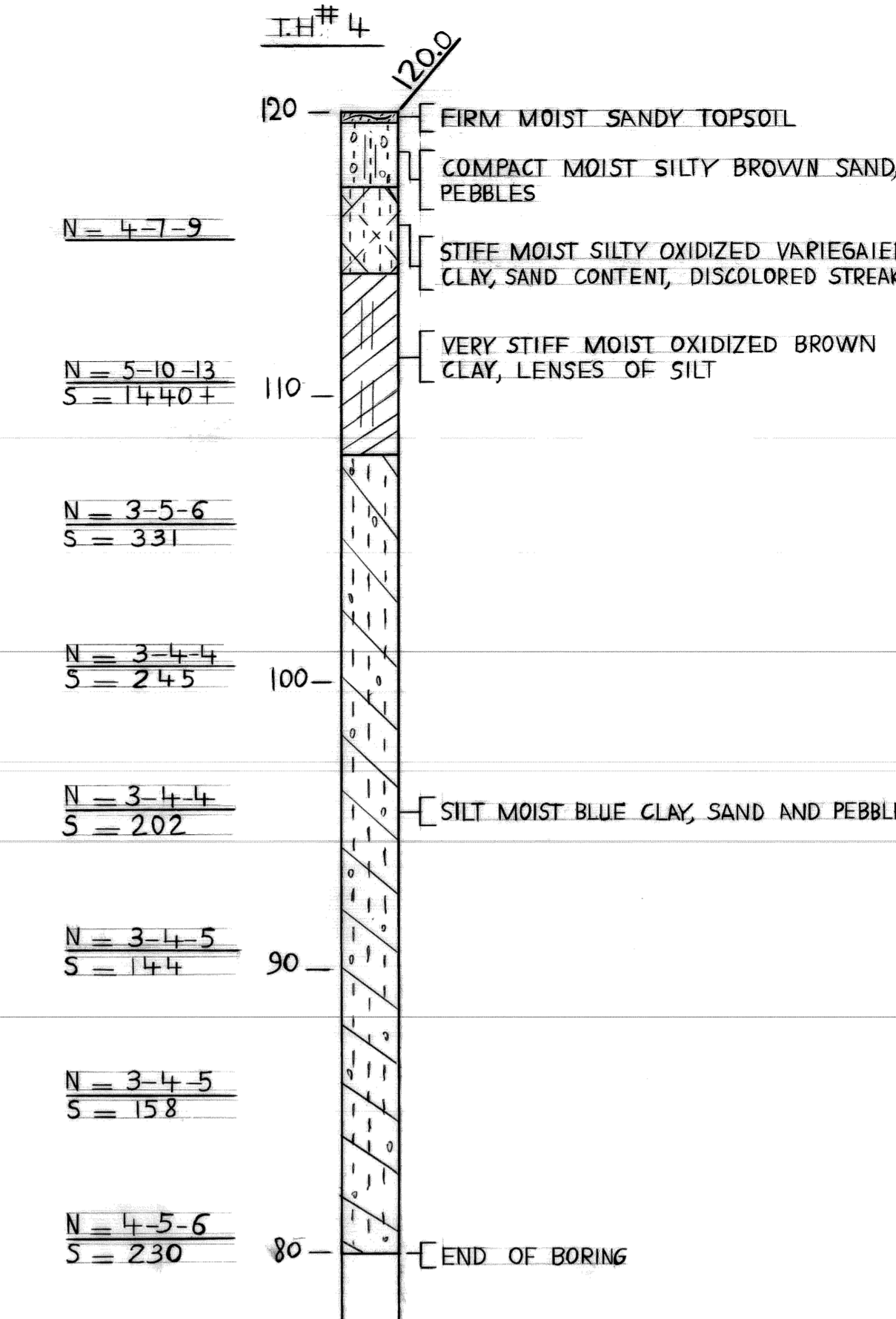
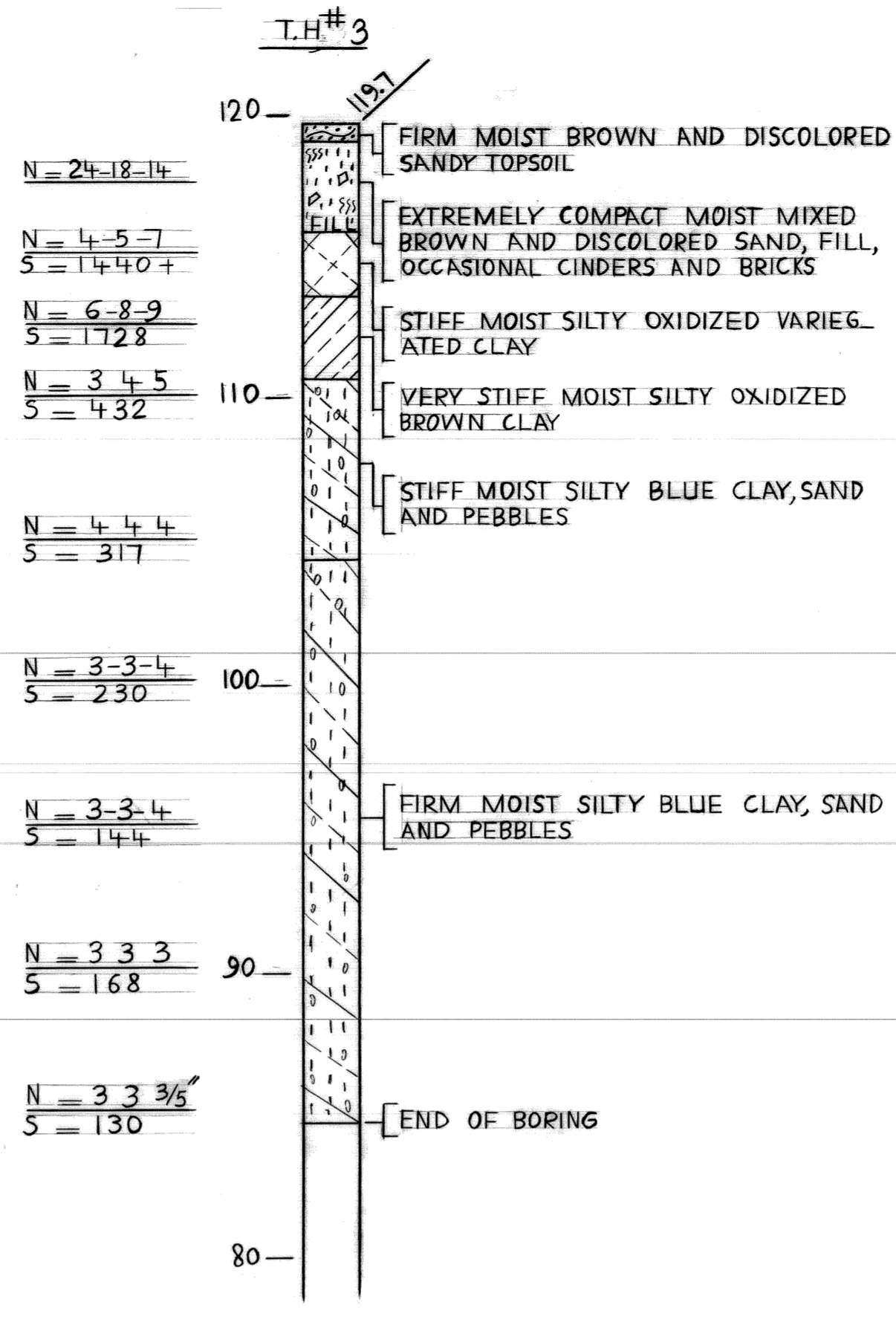
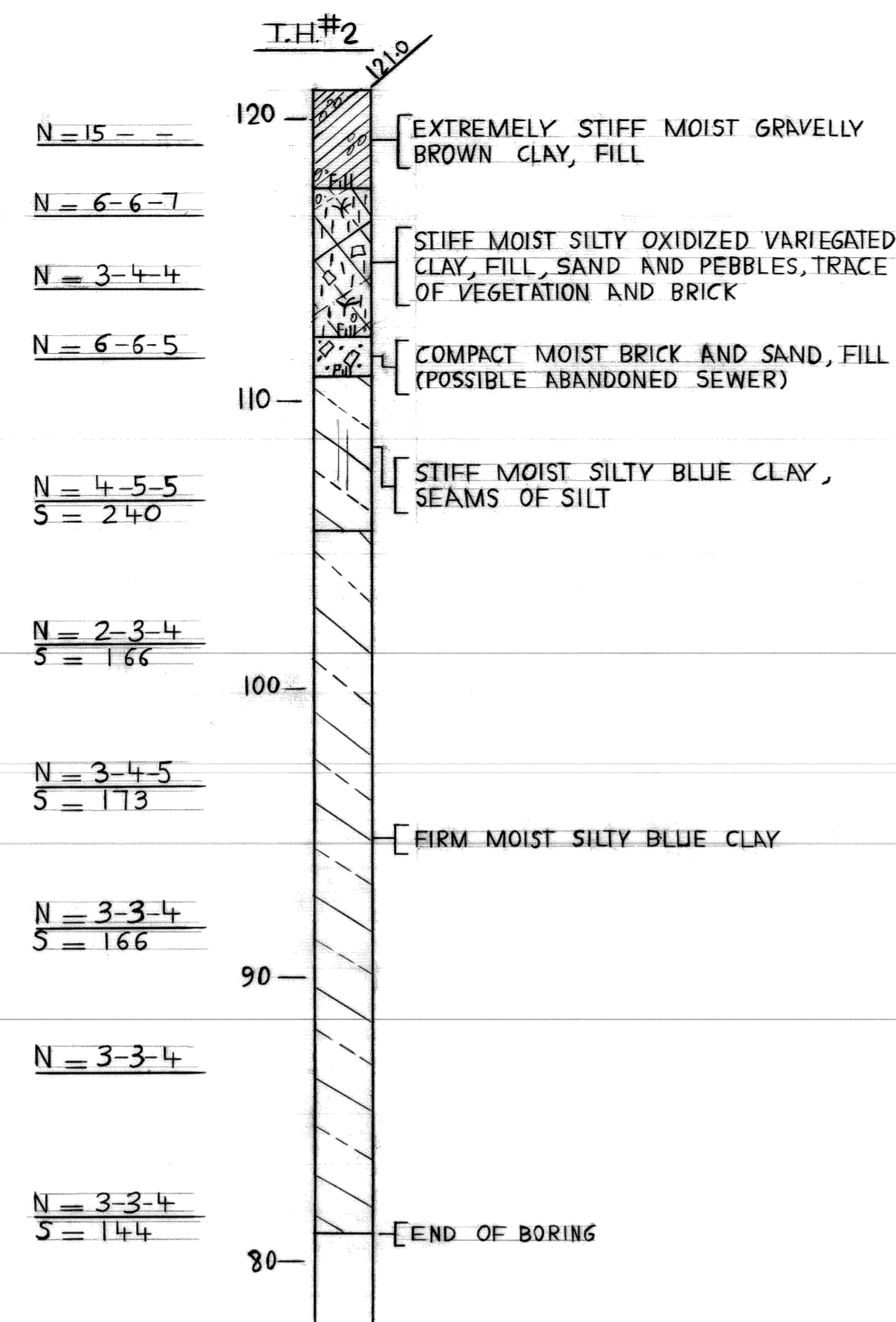
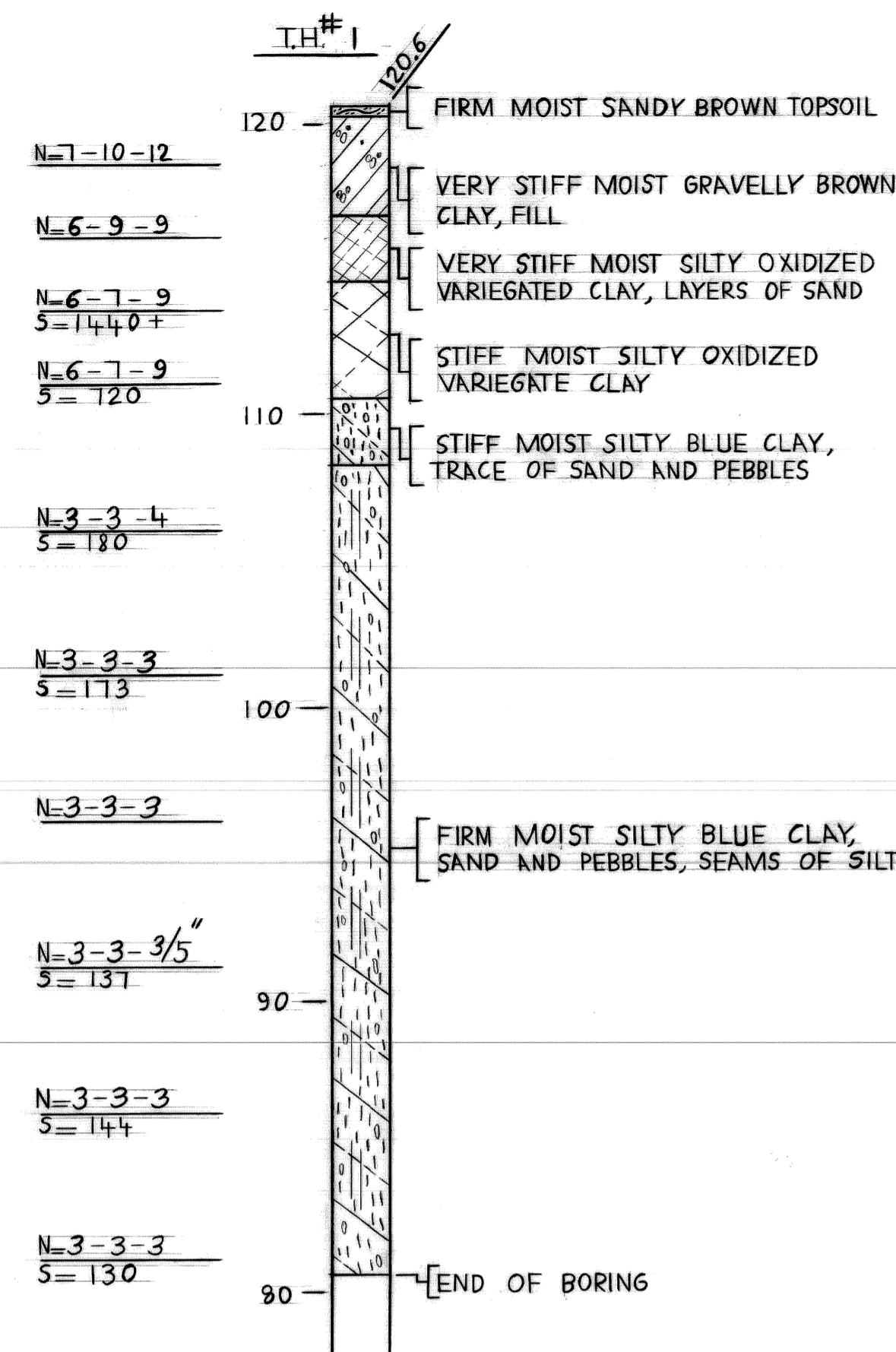
BENCH MARKS ARE REFERENCED TO THE CITY OF DETROIT DATUM.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

SEE SHEET #2 FOR SOIL BORING DATA.

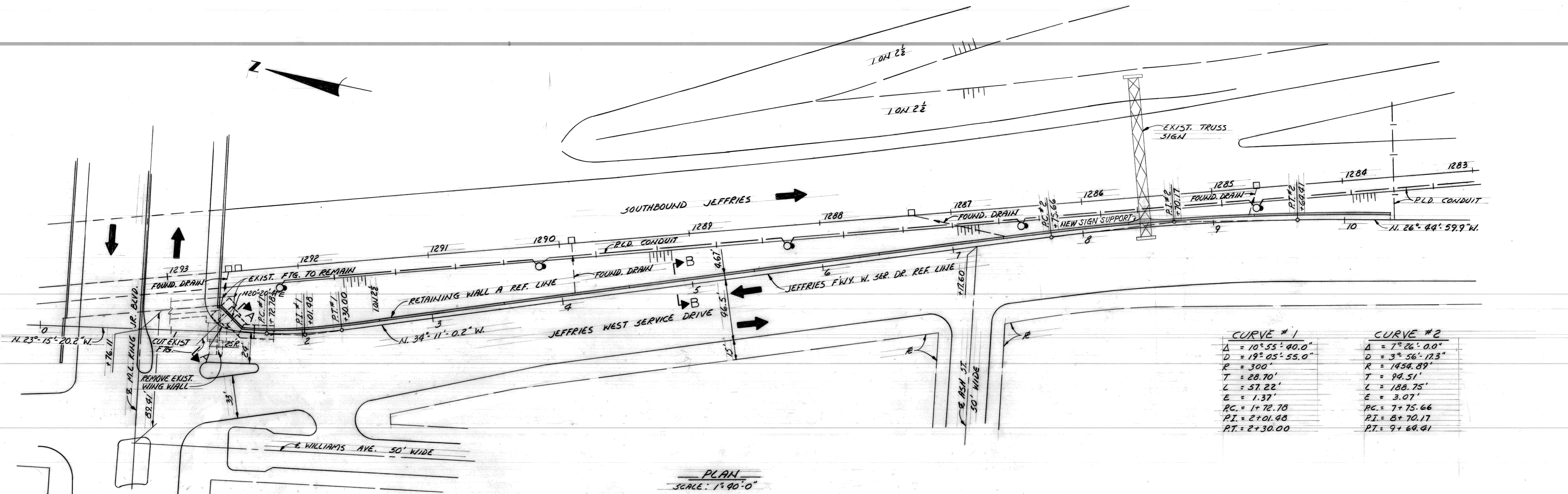
REFERENCE DRAWINGS		DESIGNED BY	APPROVED:	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RETAINING WALL A & B	SHEET 1 OF 18 SHEETS
		DRAWN BY N.H.	ASSISTANT CITY ENGINEER			CONTRACT NO.
		TRACED BY				ASSIGNMENT NO. 77-22-10
COORD	DESCRIPTION	DRN	CHK'D	APVD	DATE	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET						
		CHECKED BY	DIRECTOR			

- LOG OF SOIL BORINGS -



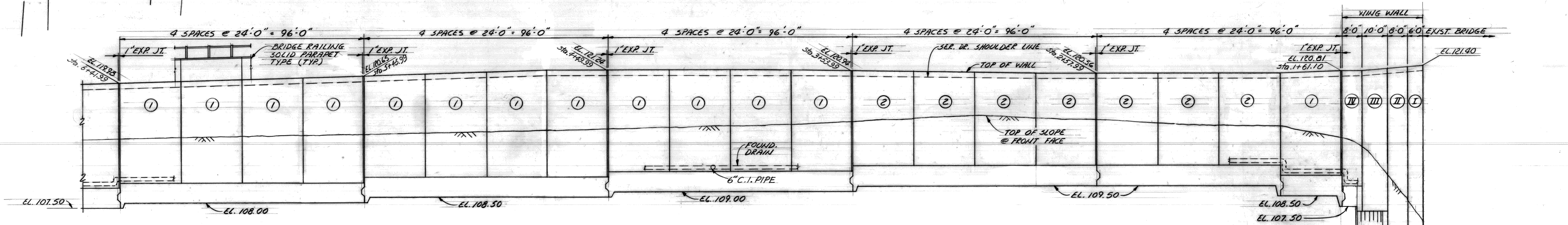
**NOTES:**  
 N. INDICATES THE NUMBER OF BLOWS REQUIRED TO DRIVE THE 2"  $\phi$  SAMPLER 6" (OR AS NOTED) USING A 140 LB. HAMMER FALLING 30".  
 S. INDICATES TRANSVERSE SHEARING RESISTANCE IN LBS. PER SQ. FT. AS DETERMINED BY M.D.O.T. STANDARD TEST.  
 THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

REFERENCE DRAWINGS		DESIGNED BY	APPROVED:	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L.KING JR. BLVD TO MICHIGAN AVE. RETAINING WALL A & B	SHEET 2 OF 18 SHEETS
		DRAWN BY	ASSISTANT CITY ENGINEER			CONTRACT NO.
		TRACED BY				ASSIGNMENT NO. 77-22-10
COORD.	DESCRIPTION	DRN	CKD	APVD	DATE	LOG OF SOIL BORINGS
REVISIONS LOCATED BY COORDINATES ON SHEET		CHECKED BY	DIRECTOR			DATE

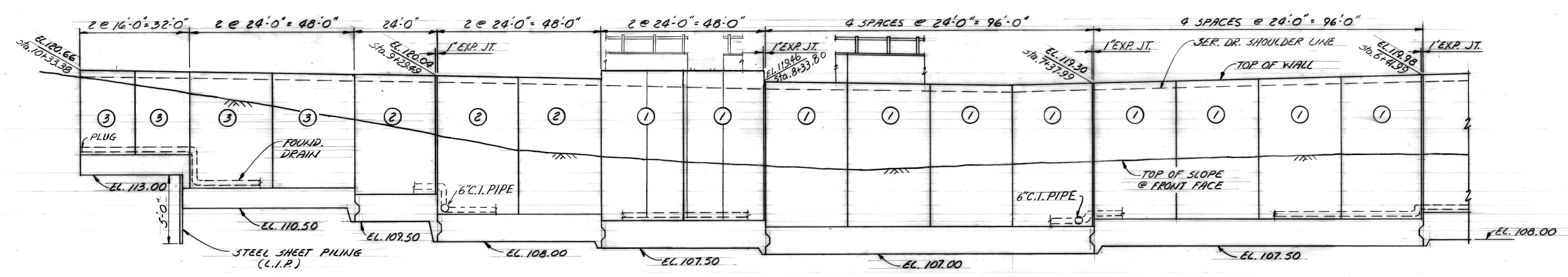


CURVE #1		CURVE #2	
Δ	10° 55' 40.0"	Δ	7° 26' 0.0"
D	19° 05' 55.0"	D	3° 56' 17.3"
R	300'	R	1454.89'
T	28.70'	T	94.51'
L	57.22'	L	188.75'
E	1.37'	E	3.07'
PC	1+72.78	PC	7+75.66
PI	2+01.48	PI	8+70.17
PT	2+30.00	PT	9+64.41

PLAN  
SCALE: 1"=90'-0"



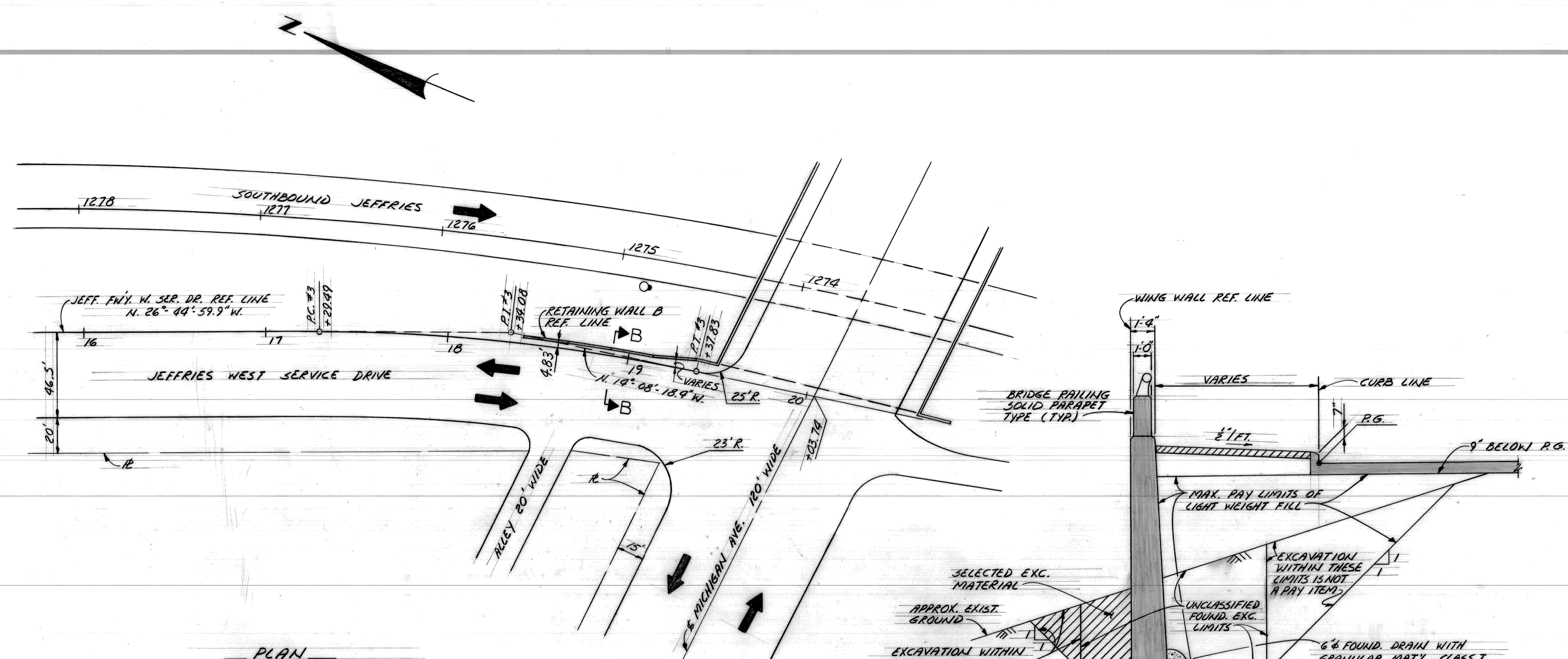
RETAINING WALL A ELEVATION  
SCALE: HORIZ. 1"=20'-0"  
VERT. 1"=5'-0"



RETAINING WALL A ELEVATION  
SCALE: HORIZ. 1"=20'-0"  
VERT. 1"=5'-0"

NOTE: ALL HORIZONTAL DIMENSIONS ARE ALONG RETAINING WALL REFERENCE LINE.

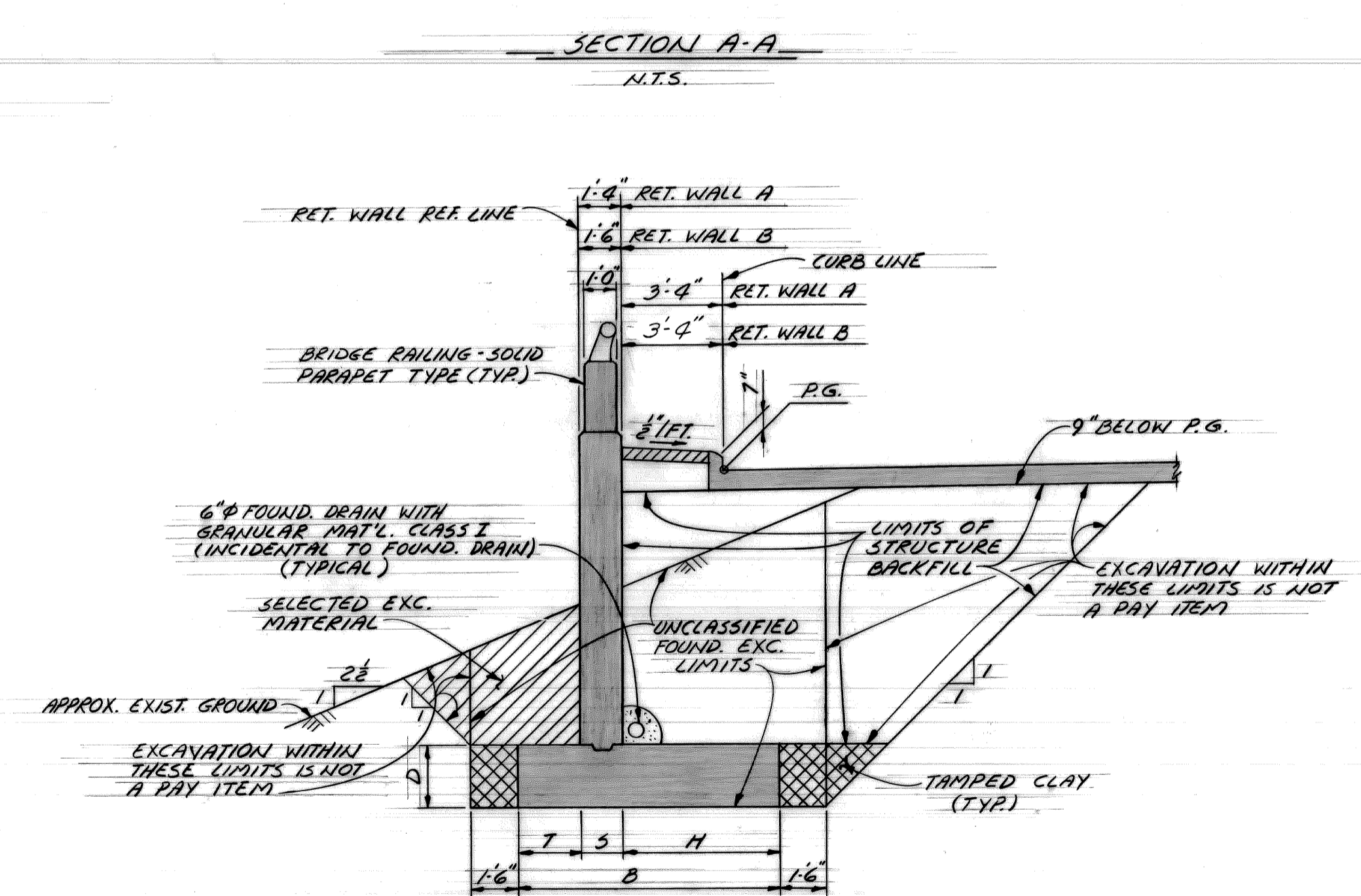
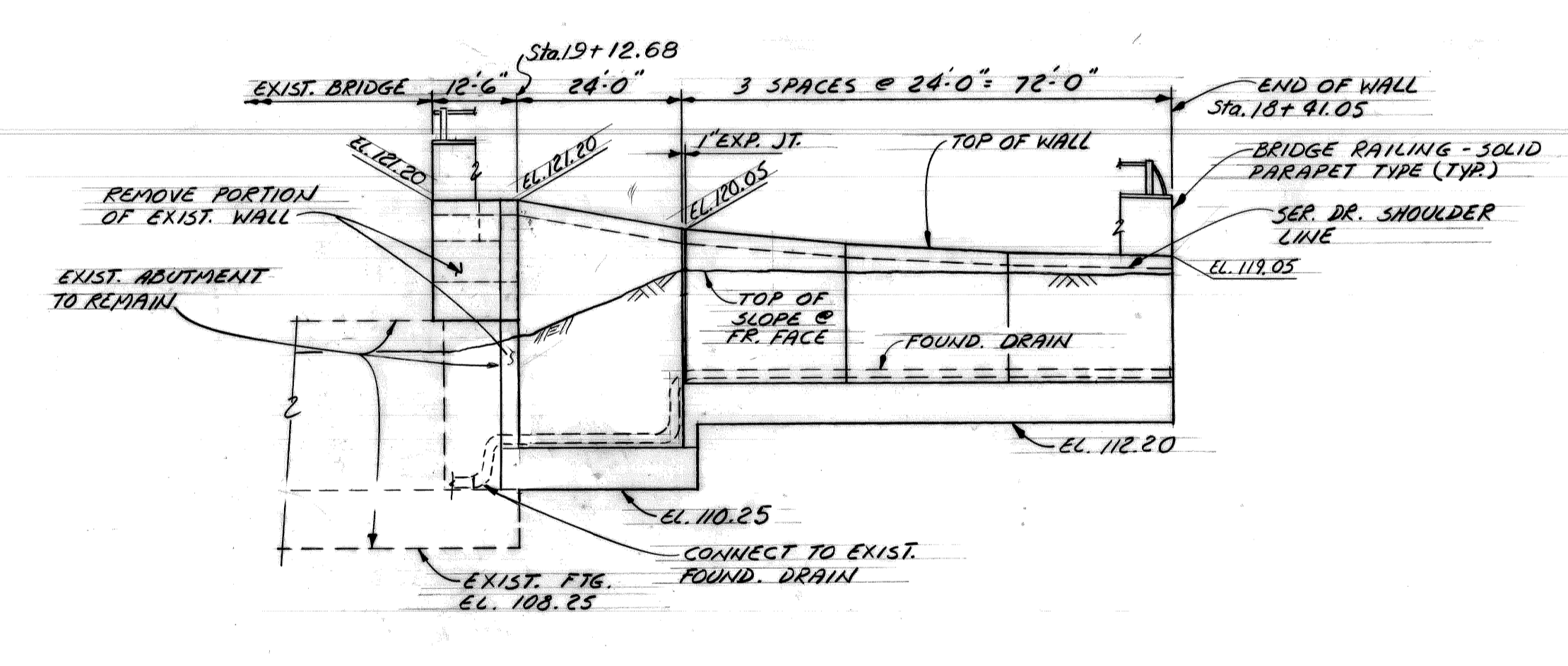
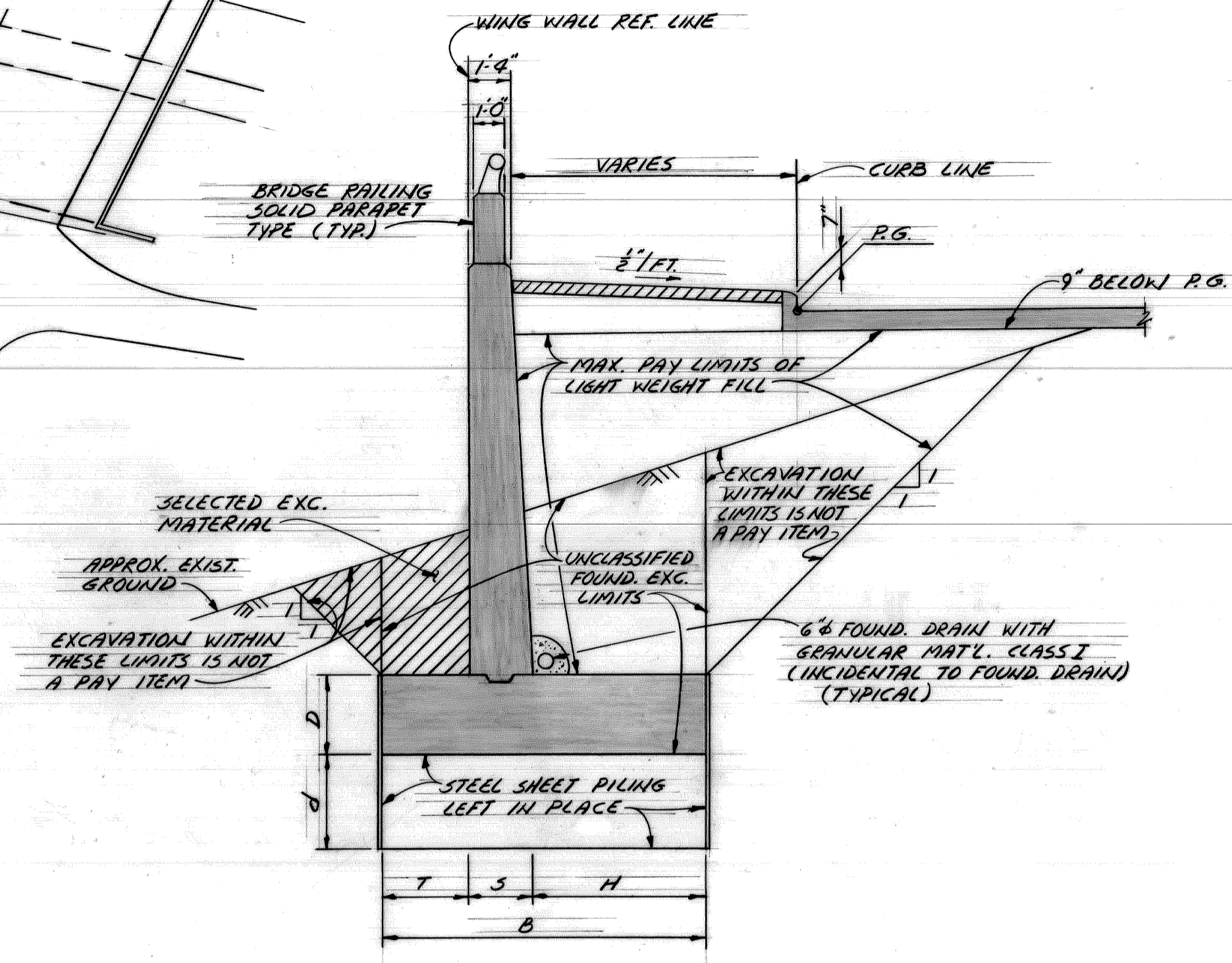
DESIGNED BY: M.C. DRAWN BY: A.G. TRACED BY: CHECKED BY:				APPROVED: ASSISTANT CITY ENGINEER DIRECTOR		CITY OF DETROIT CITY ENGINEERING DEPARTMENT				JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B				SHEET 3 OF 18 SHEETS CONTRACT NO. ASSIGNMENT NO. 77 22 19 DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET				GENERAL PLAN OF STRUCTURE											



**CURVE #3**

$\Delta = 12^{\circ}36'41.5''$   
 $D = 6^{\circ}03'12.4''$   
 $R = 746.50'$   
 $T = 108.59'$   
 $L = 208.39'$   
 $E = 5.76'$   
 $PC = 17+29.49$   
 $PT = 18+39.08$   
 $PI = 19+37.83$

DIM.	WING WALL				RET. WALL A		RET. WALL B
	SEG. I	SEG. II	SEG. III	SEG. IV	SEG. 1	SEG. 2	SEG. 3
T	8'-0"	5'-0"	3'-6"	2'-0"	2'-0"	2'-0"	1'-6"
S	2'-8"	2'-0"	1'-10"	1'-4"	1'-4"	1'-4"	1'-6"
H	9'-4"	7'-6"	5'-2"	6'-8"	6'-8"	5'-2"	3'-0"
B	20'-0"	14'-6"	10'-6"	10'-0"	10'-0"	8'-6"	6'-0"
D	3'-0"	2'-6"	2'-0"	2'-0"	2'-0"	2'-0"	1'-6"
d	—	7'-0"	5'-0"	5'-0"	—	—	—



**GENERAL NOTES**

THE DESIGN OF THIS STRUCTURE IS BASED ON M.D.S.M. & T. SPECIFICATIONS FOR THE DESIGN OF HIGHWAY BRIDGES, 1958 EDITION, AND CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

EXCEPT WHERE OTHERWISE INDICATED ON THIS STRUCTURE SHEET OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1984 EDITION.

MWP DENOTES MEMBRANE WATERPROOFING. JWP DENOTES JOINT WATERPROOFING. NS DENOTES NEAR SIDE. FS DENOTES FAR SIDE. ES DENOTES EACH SIDE. FOR BEVEL AND MOLDING DETAILS, SEE STANDARD SHEET R-18A.

THE EXPOSED FACES OF THE WING WALL & RET. WALLS SHALL HAVE SPECIAL ARCHITECTURAL TREATMENT IN ACCORDANCE WITH SECTION 5.03.06(C) OF THE STANDARD SPECIFICATIONS.

THE SUBSTRUCTURE CONCRETE AND EXCAVATION QUANTITIES TAKE INTO CONSIDERATION THE ADDITIONAL CONCRETE AND EXCAVATION NECESSARY TO POUR AND EXCAVATE TO THE PERMANENT STEEL SHEET PILING.

TAMPED CLAY AND SELECTED EXCAVATED MATERIAL ARE INCIDENTAL TO UNCLASSIFIED FOUNDATION EXCAVATION.

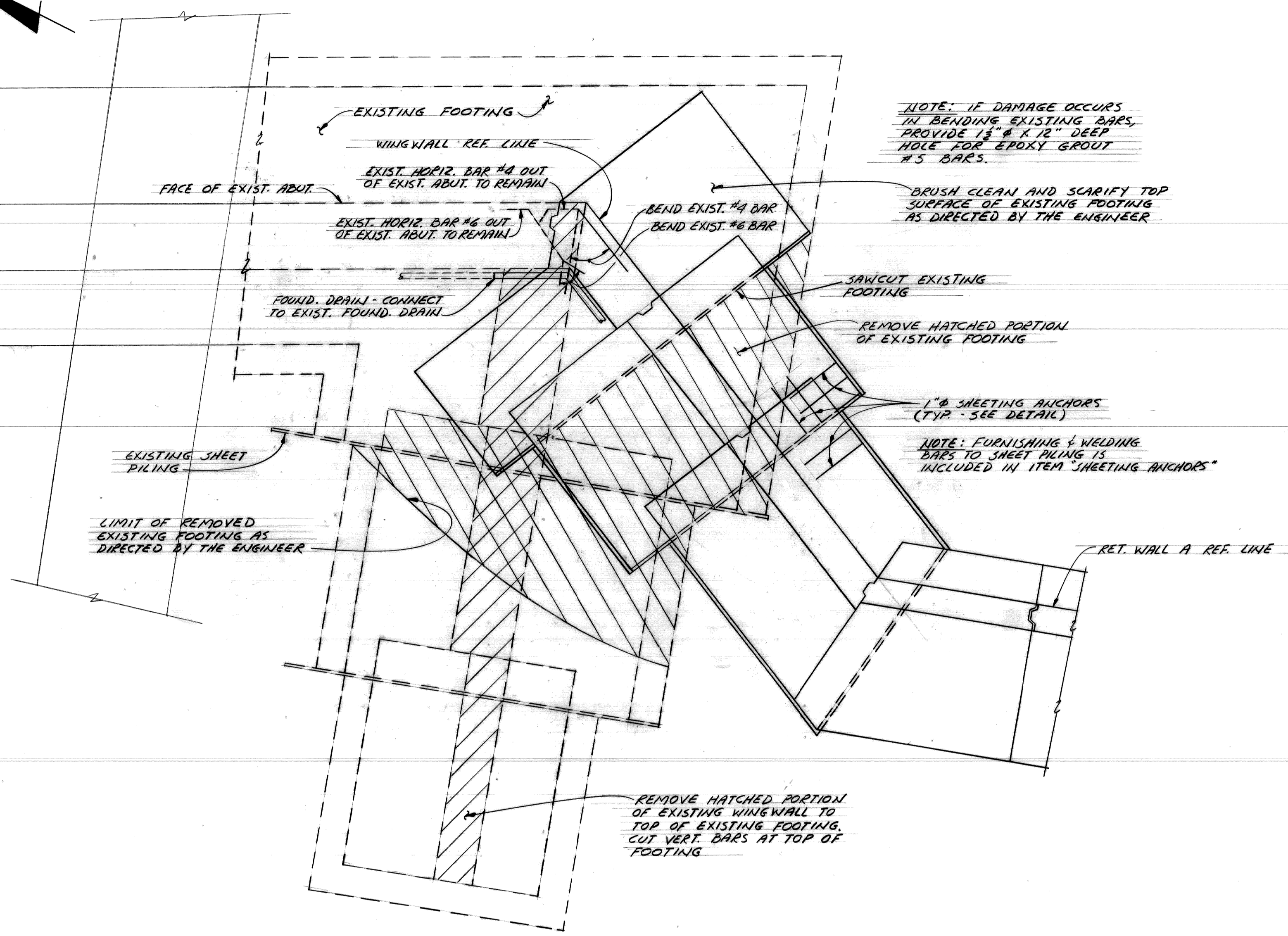
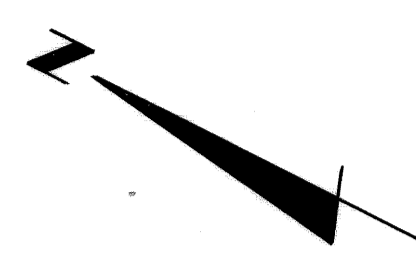
POUR DESIGNATIONS SHALL NOT BE CONSTRUED AS A REQUIRED POUR SEQUENCE.

1", 2" AND 3" JOINT FILLER ARE INCIDENTAL TO STRUCTURE CONCRETE.

SEE M.D.O.T. RAILING STANDARD X-18A FOR RAILING DETAILS.

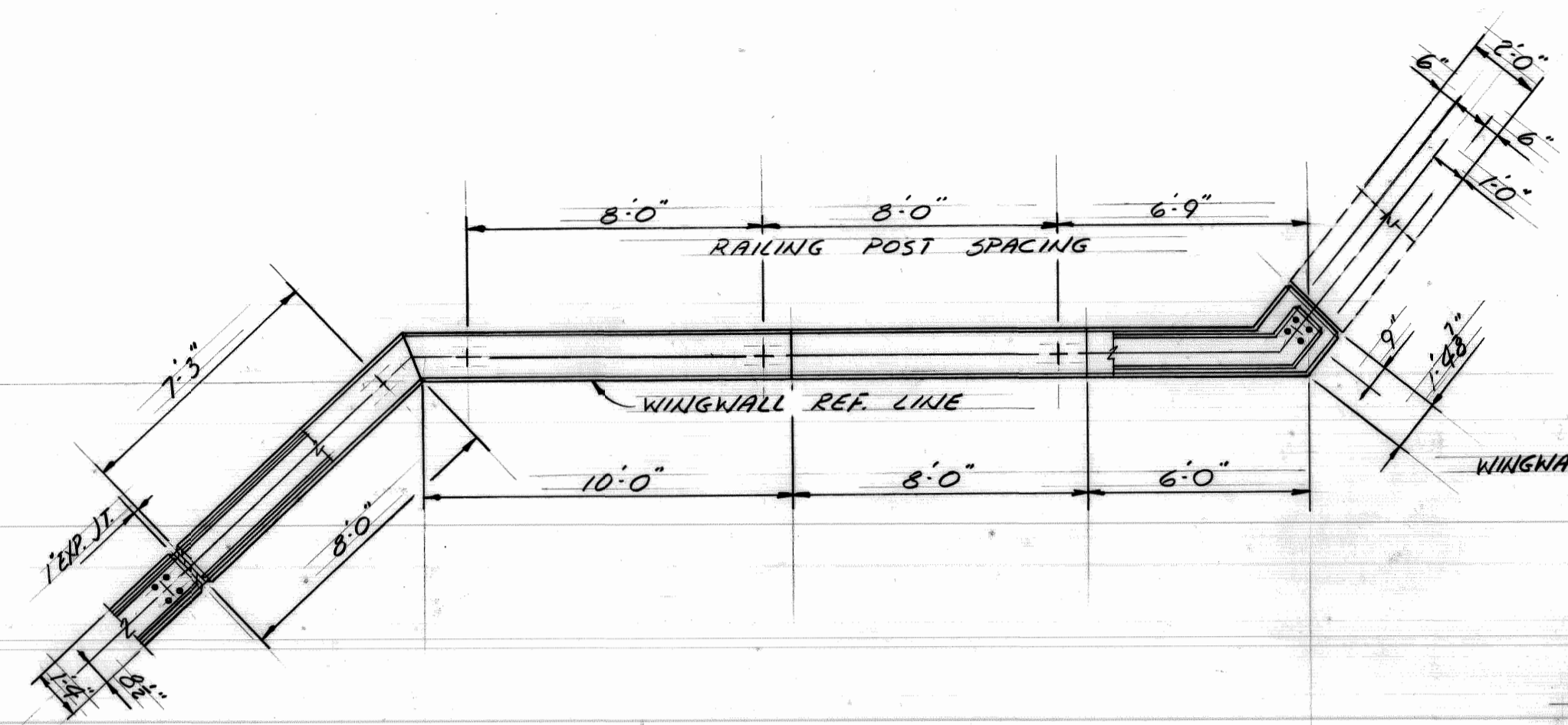
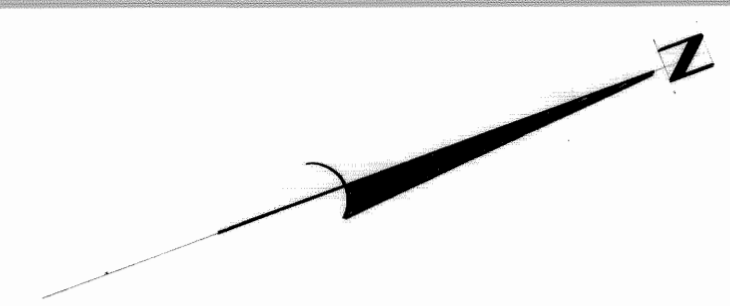
NOTE: ALL HORIZONTAL DIMENSIONS ARE ALONG RETAINING WALL REFERENCE LINE.

DESIGNED BY M. C.	APPROVED: ASSISTANT CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B	SHEET 4 OF 18 SHEETS
DRAWN BY A. G.	DIRECTOR			CONTRACT NO.
TRACED BY			GENERAL PLAN OF STRUCTURE	ASSIGNMENT NO. 77-22-10
CHECKED BY				DATE

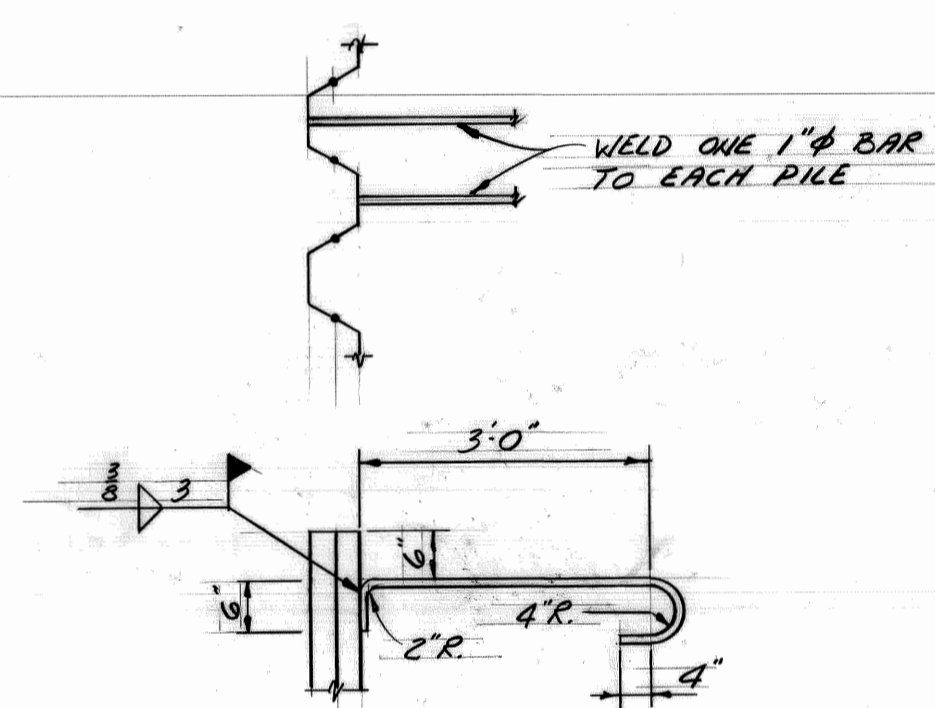


REMOVAL PLAN

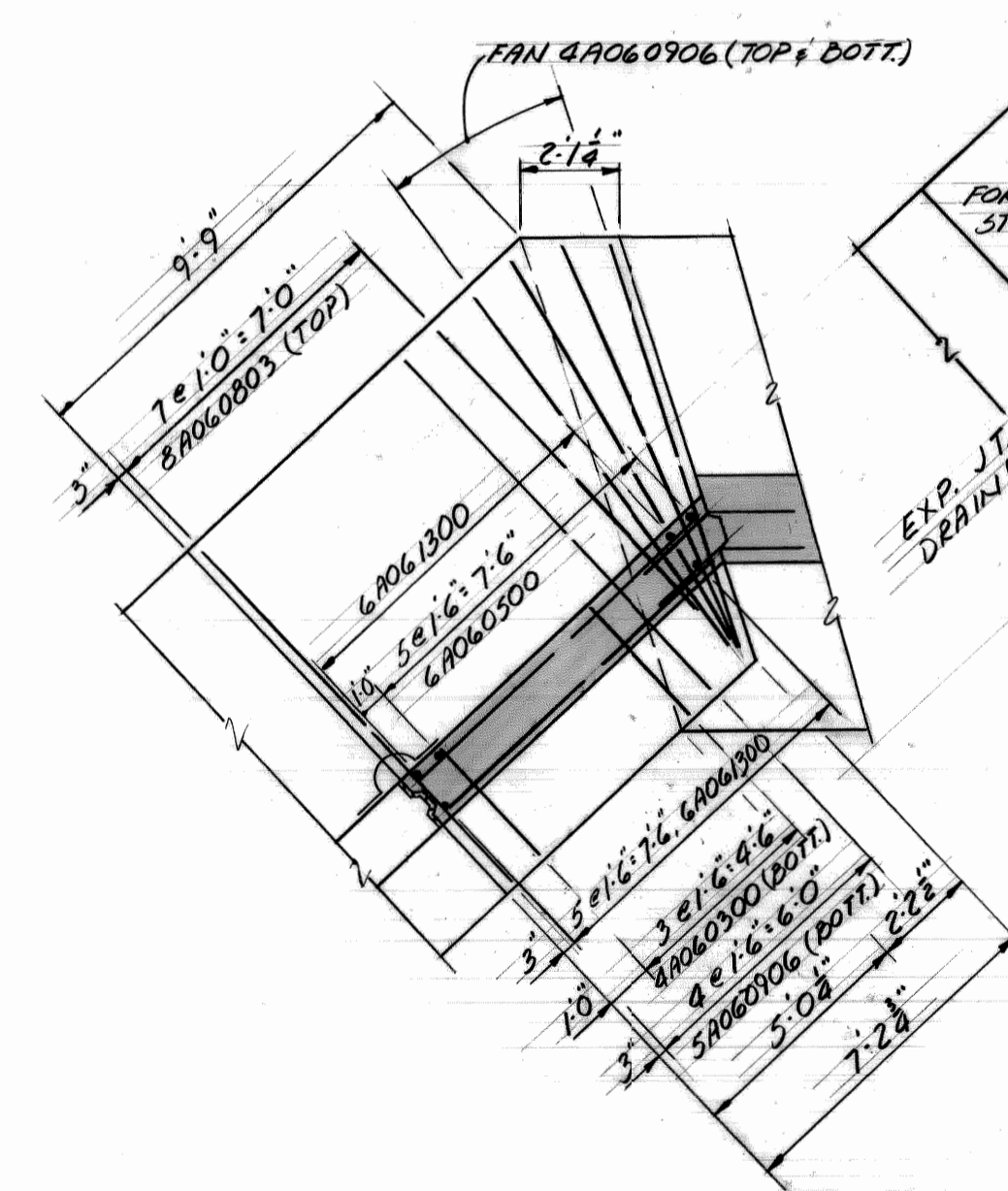
<table border="1"> <tr> <td>COORD</td> <td>DESCRIPTION</td> <td>DN</td> <td>CK'D</td> <td>APVD</td> <td>DATE</td> </tr> <tr> <td colspan="6">REVISIONS LOCATED BY COORDINATES ON SHEET</td> </tr> </table>		COORD	DESCRIPTION	DN	CK'D	APVD	DATE	REVISIONS LOCATED BY COORDINATES ON SHEET						<table border="1"> <tr> <td>DESIGNED BY</td> <td></td> </tr> <tr> <td>DRAWN BY</td> <td>A.G.</td> </tr> <tr> <td>TRACED BY</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> </tr> </table>	DESIGNED BY		DRAWN BY	A.G.	TRACED BY		CHECKED BY		<table border="1"> <tr> <td>APPROVED:</td> <td></td> </tr> <tr> <td>ASSISTANT CITY ENGINEER</td> <td></td> </tr> <tr> <td>DIRECTOR</td> <td></td> </tr> </table>	APPROVED:		ASSISTANT CITY ENGINEER		DIRECTOR		<p>CITY OF DETROIT CITY ENGINEERING DEPARTMENT</p>	<p>JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A &amp; B</p> <p>EXISTING FOUNDATION REMOVAL PLAN</p>	<table border="1"> <tr> <td>SHEET</td> <td>5</td> <td>OF</td> <td>18</td> <td>SHEETS</td> </tr> <tr> <td>CONTRACT NO.</td> <td colspan="4"></td> </tr> <tr> <td>ASSIGNMENT NO.</td> <td colspan="4">77-22-19</td> </tr> <tr> <td>DATE</td> <td colspan="4"></td> </tr> </table>	SHEET	5	OF	18	SHEETS	CONTRACT NO.					ASSIGNMENT NO.	77-22-19				DATE				
COORD	DESCRIPTION	DN	CK'D	APVD	DATE																																															
REVISIONS LOCATED BY COORDINATES ON SHEET																																																				
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DATE																																																				



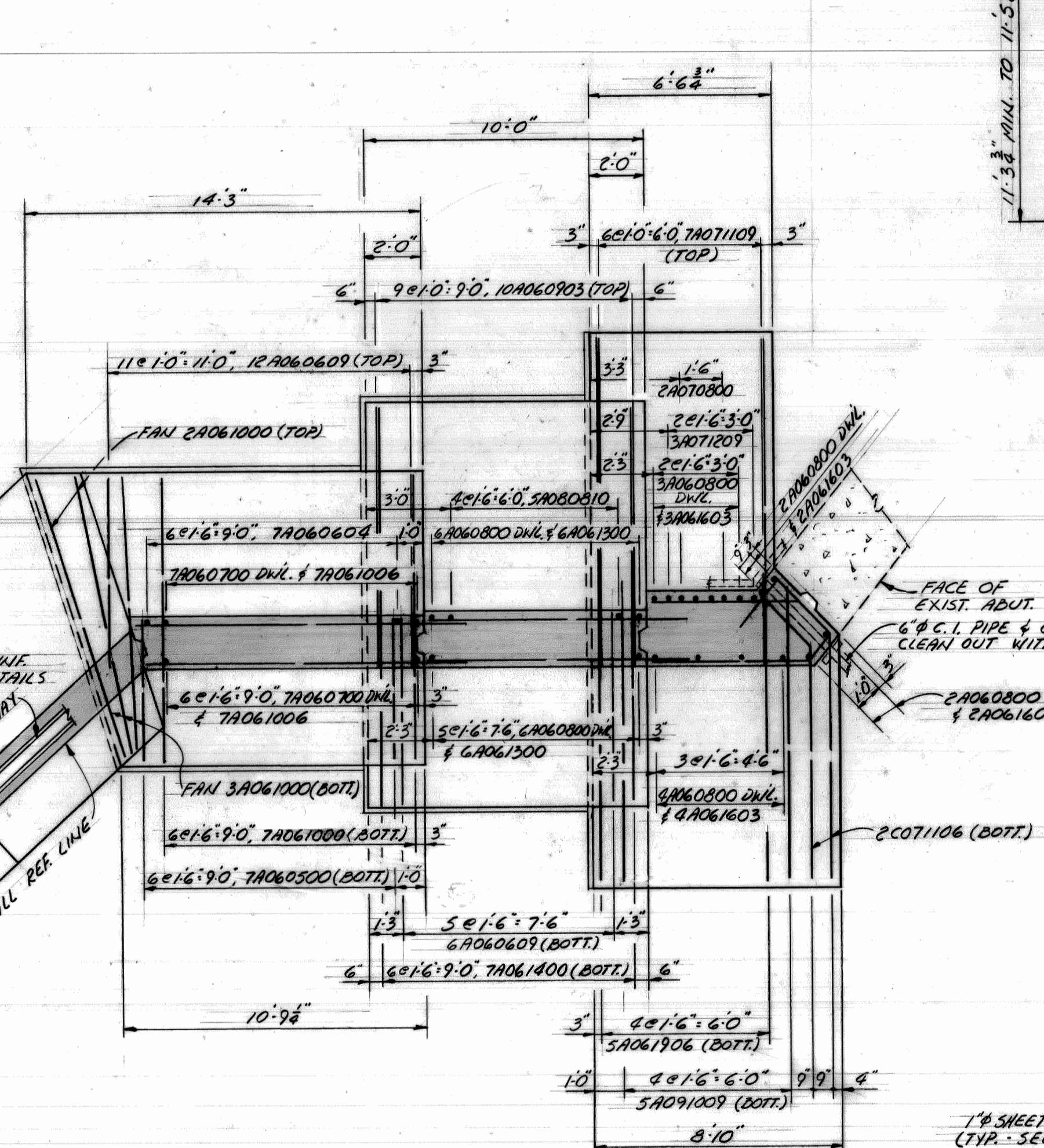
PLAN OF TOP



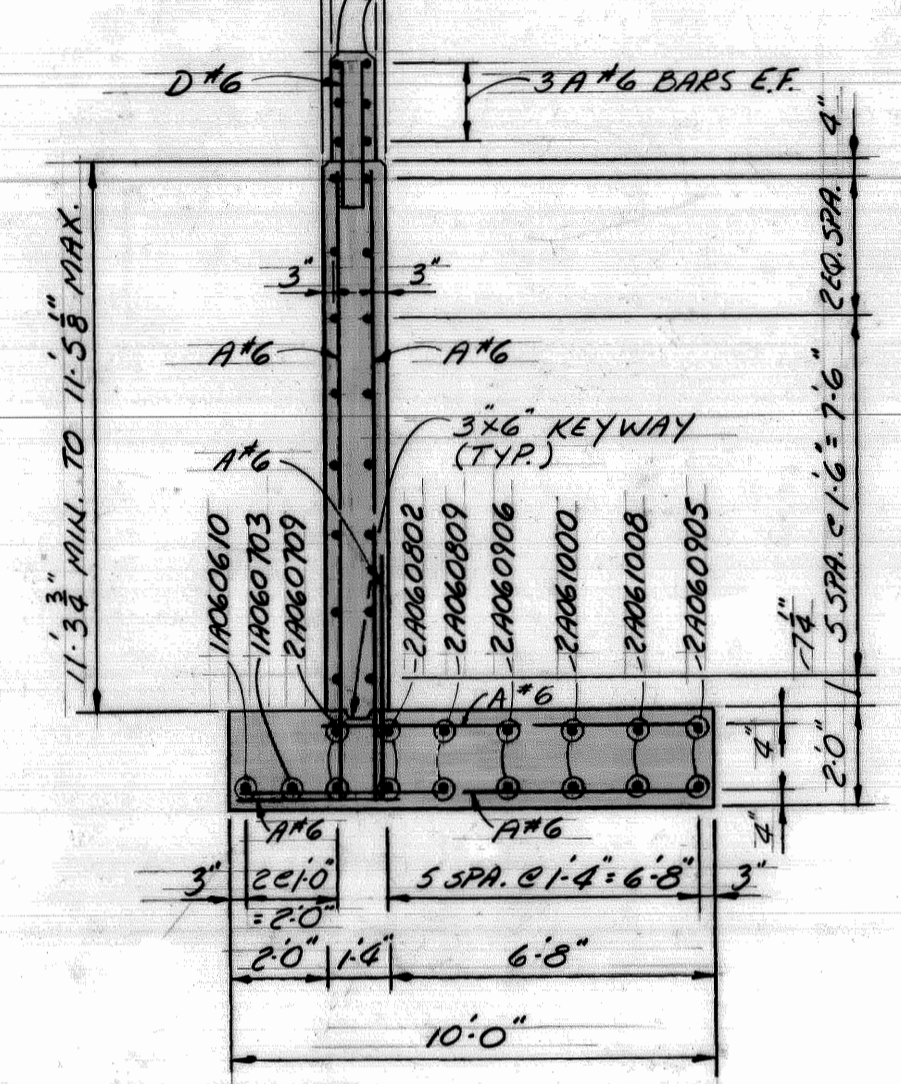
SHEETING ANCHOR DETAIL



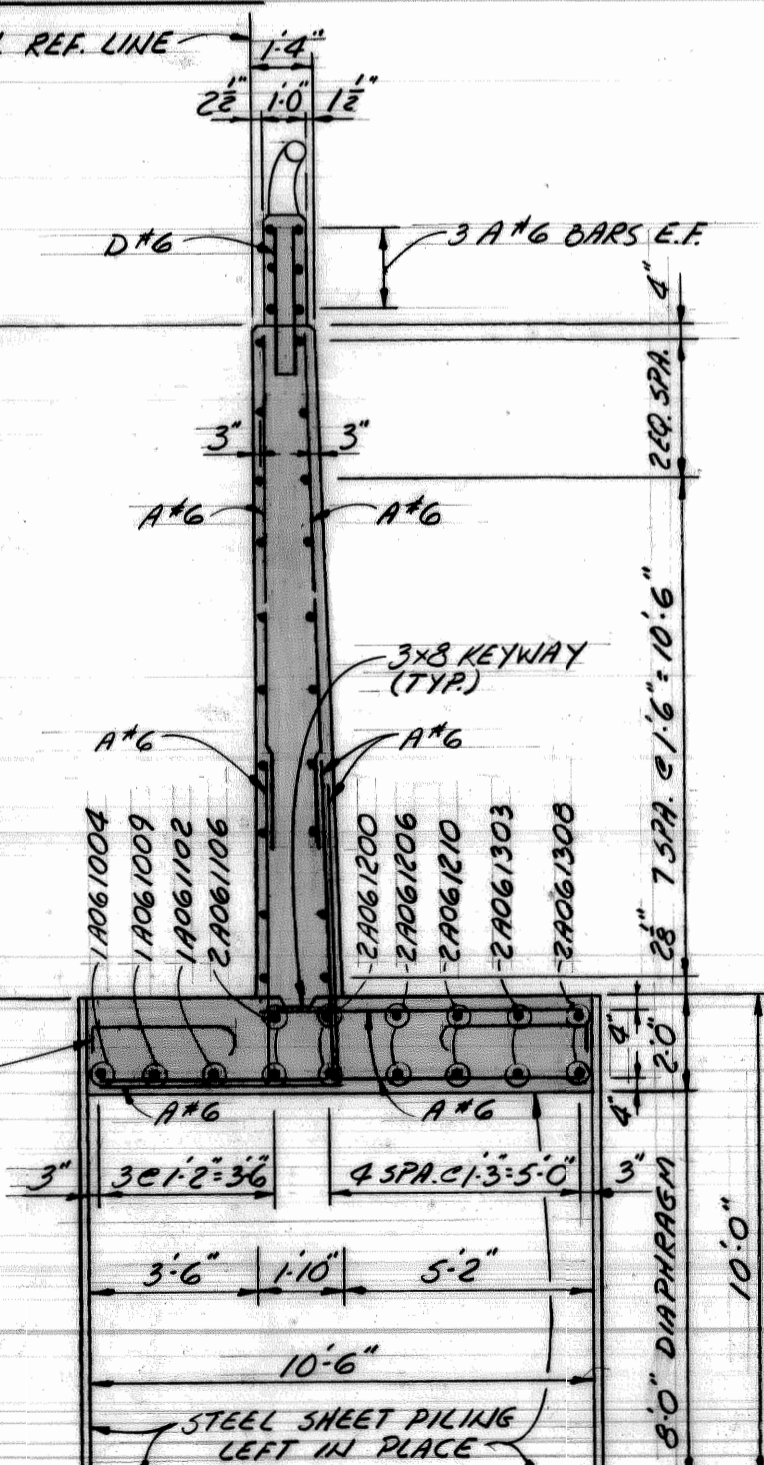
POUR D DETAILS



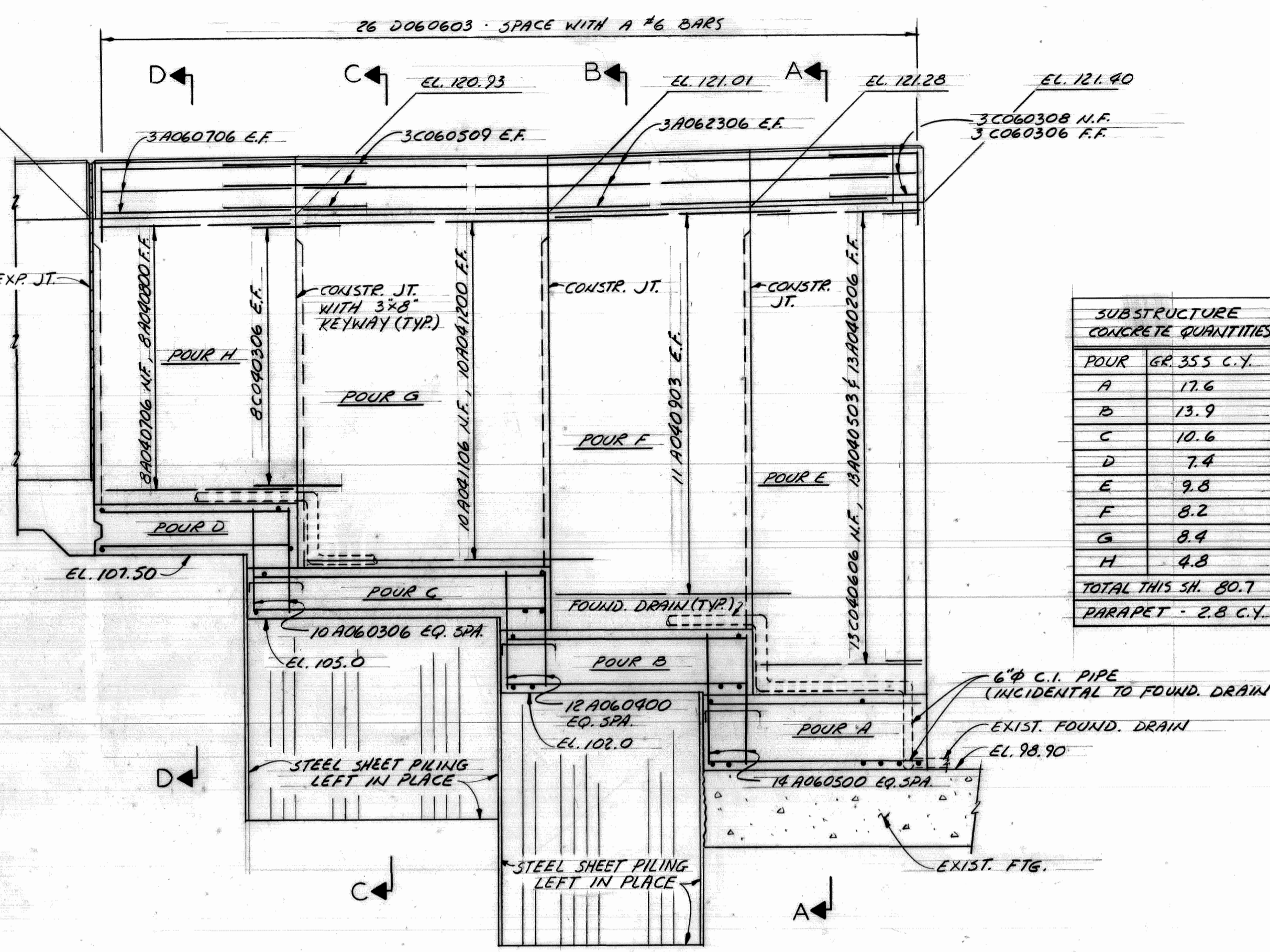
FOUNDATION PLAN



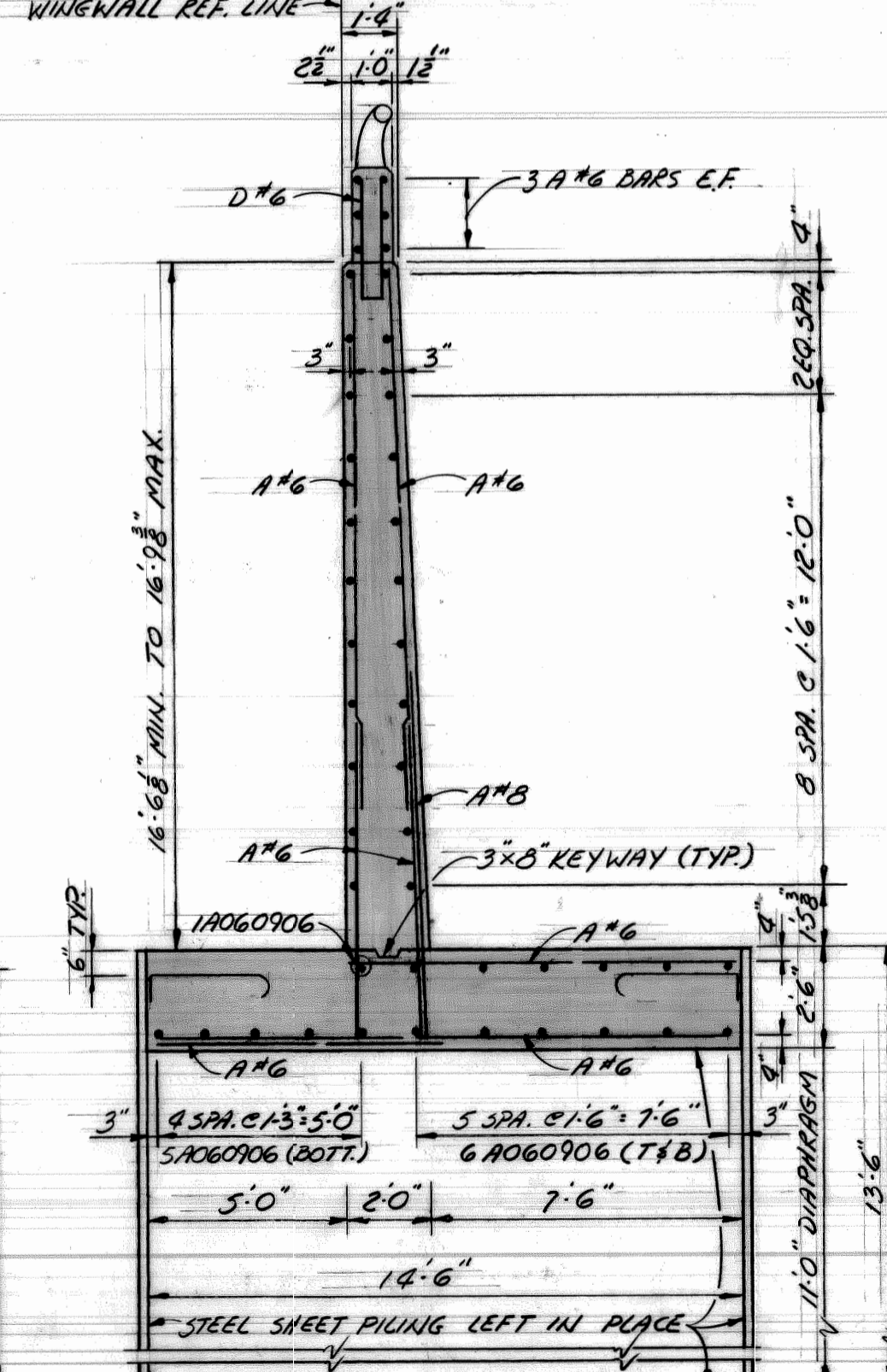
SECTION D-D



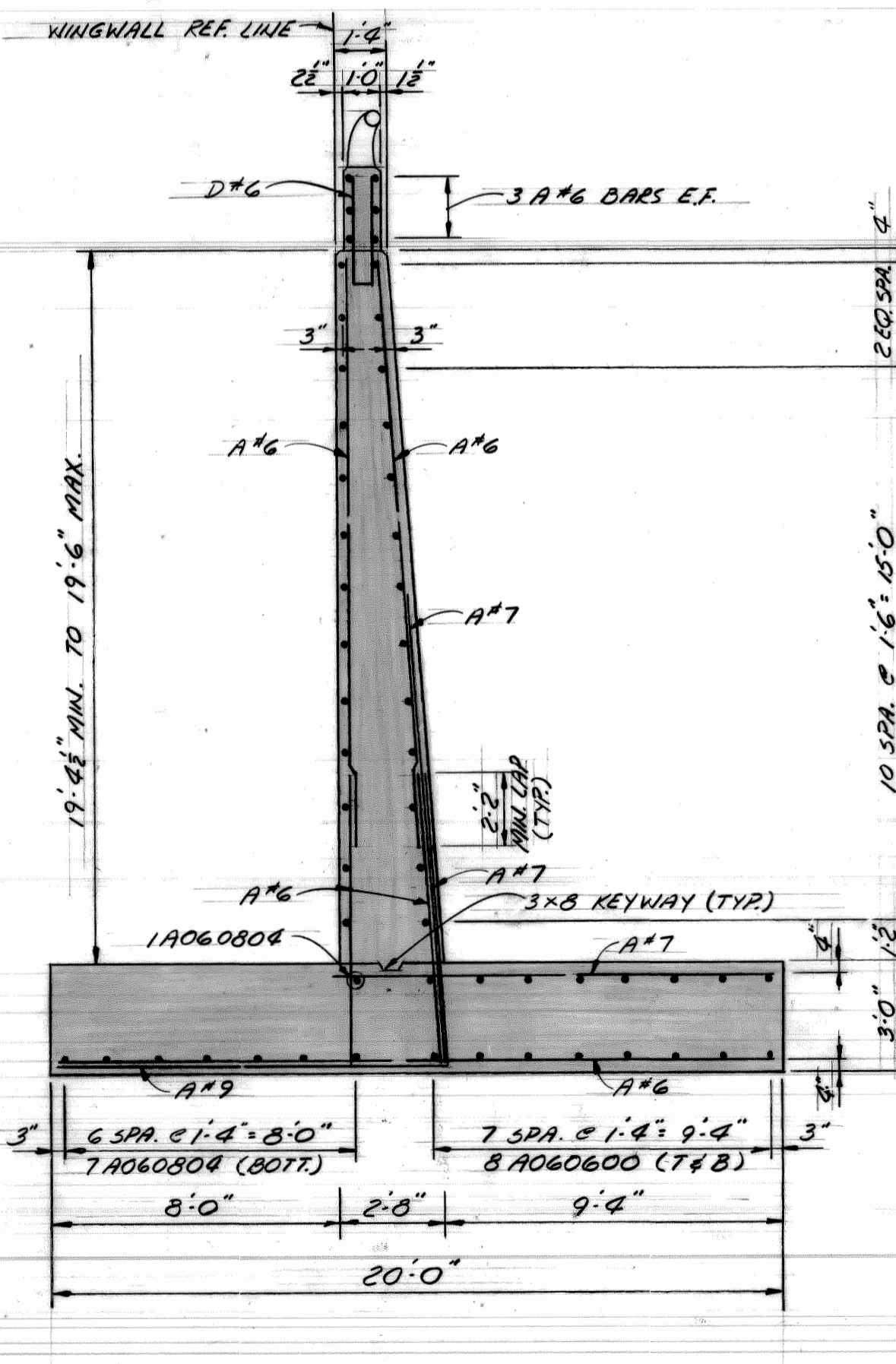
SECTION C-C



ELEVATION



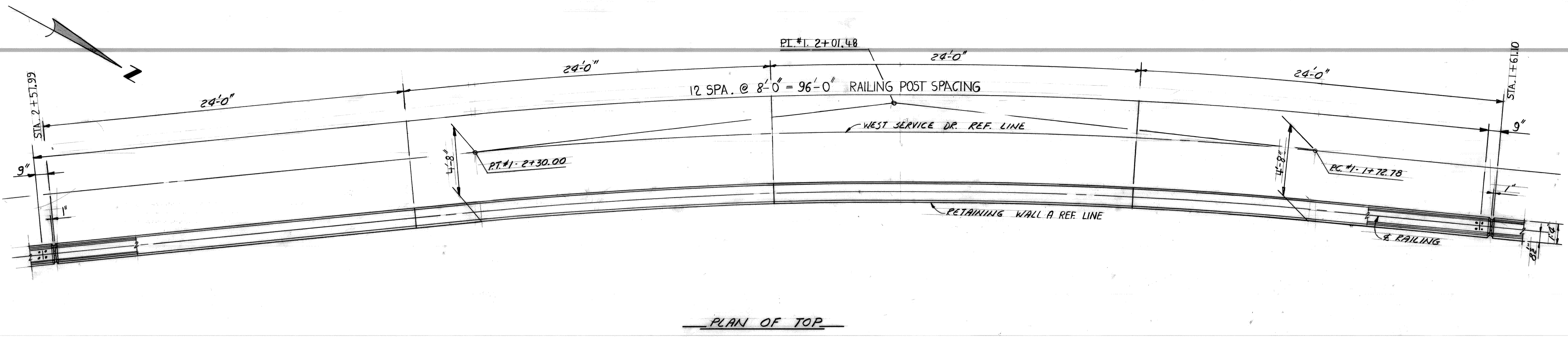
SECTION B-B



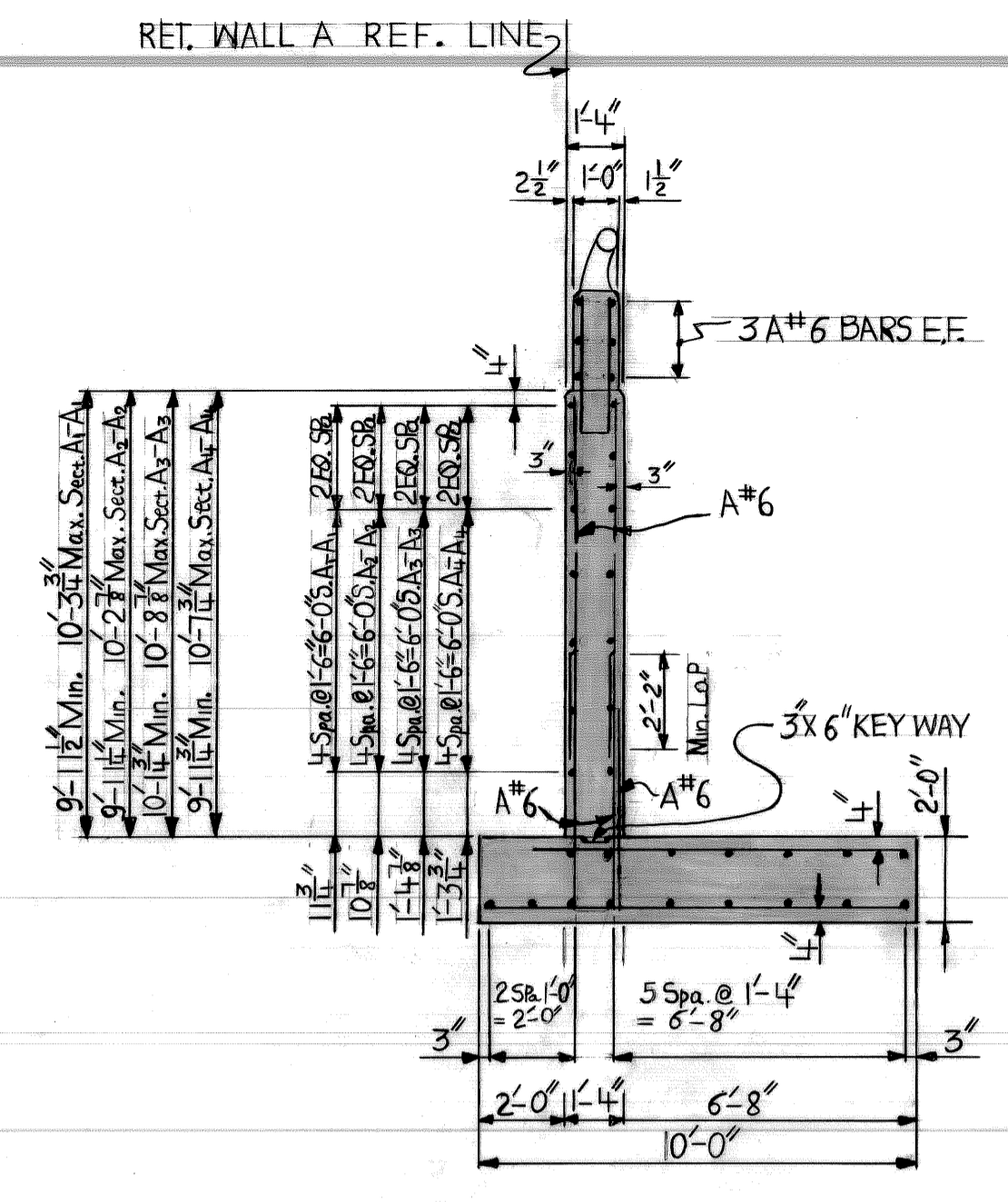
SECTION A-A

SUBSTRUCTURE CONCRETE QUANTITIES	
POUR	GR. 35.5 C.Y.
A	17.6
B	13.9
C	10.6
D	7.4
E	9.8
F	8.2
G	8.4
H	4.8
TOTAL THIS SH.	80.7
PARAPET	- 2.8 C.Y.

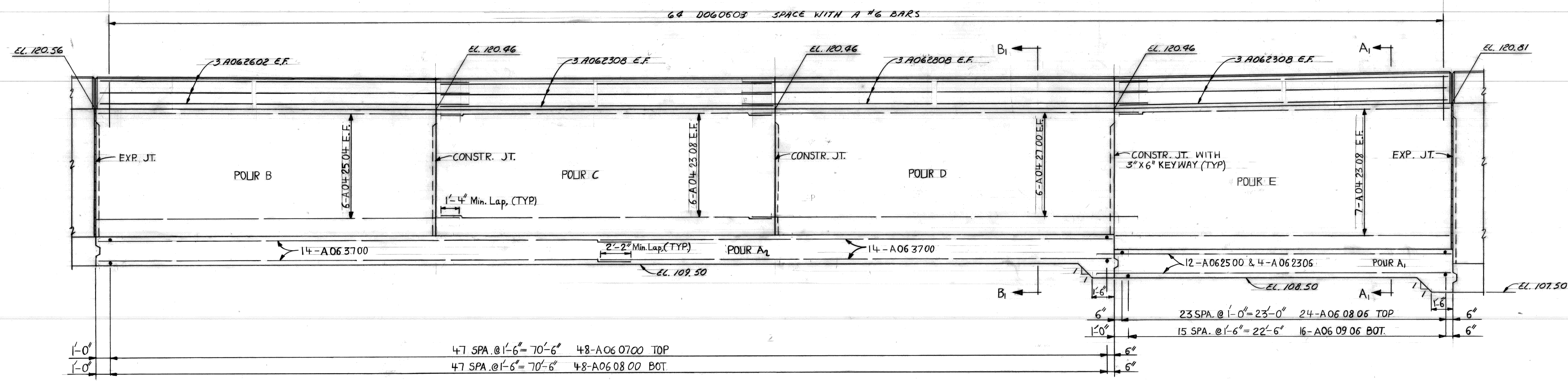
CITY OF DETROIT CITY ENGINEERING DEPARTMENT		JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B		SHEET 6 OF 18 SHEETS
DESIGNED BY M.C.	APPROVED ASSISTANT CITY ENGINEER			CONTRACT NO.
DRAWN BY A.G.				ASSIGNMENT 77-22-10
TRACED BY				DATE
CHECKED BY	DIRECTOR			
REVISIONS LOCATED BY COORDINATES ON SHEET				



PLAN OF TOP

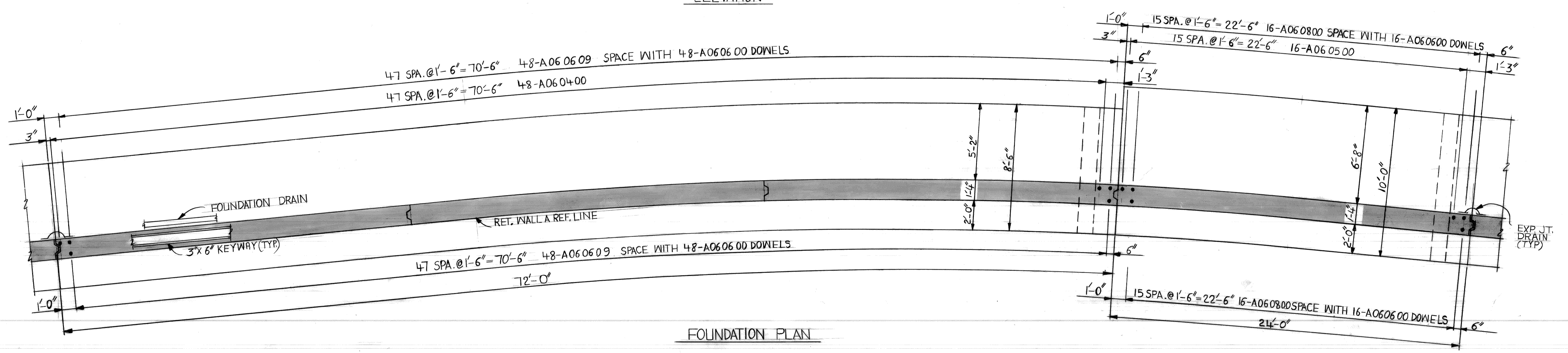


SECTION: A-A, A1-A1, A2-A2, A3-A3

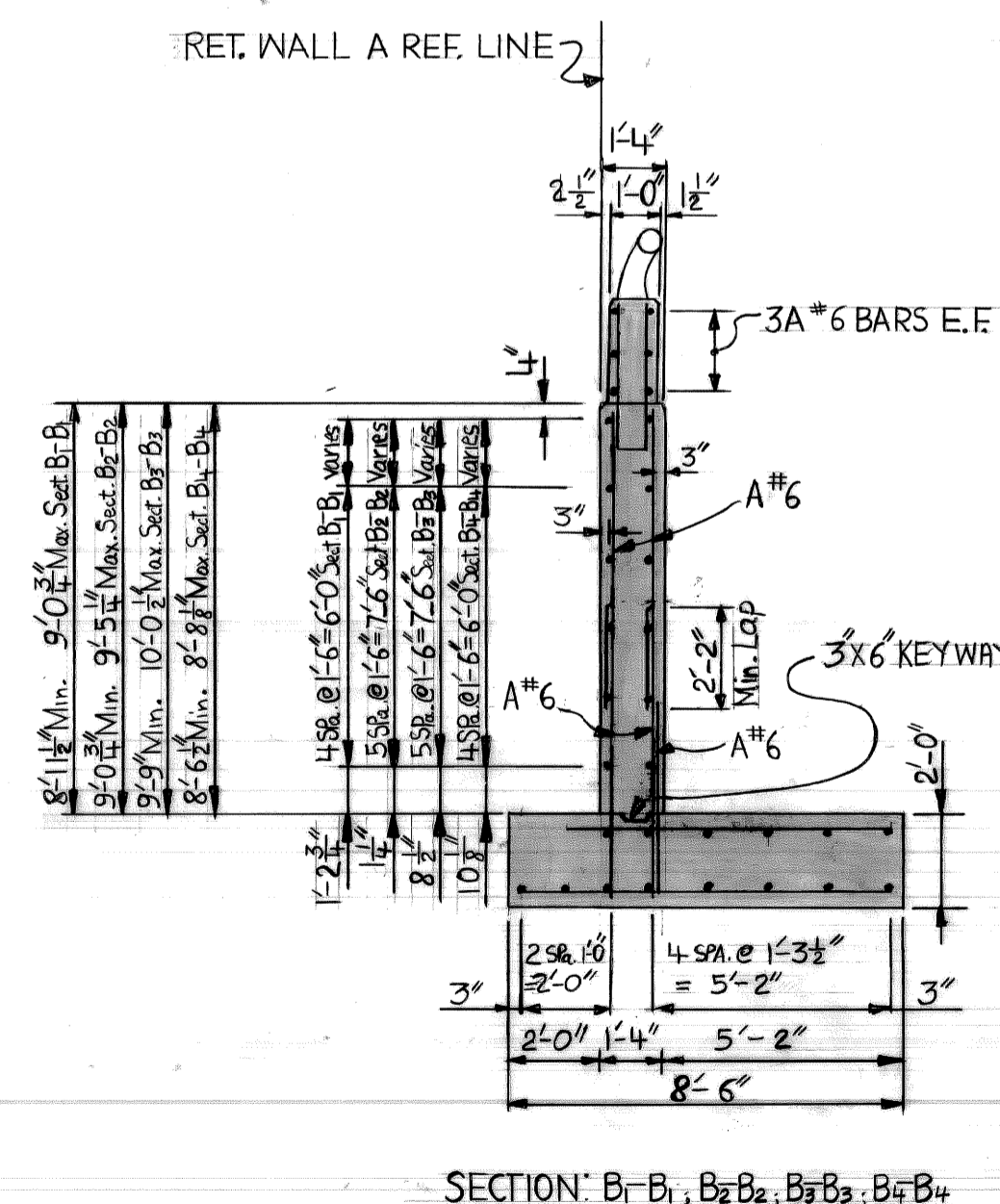


ELEVATION

SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	Gr. 35 S	Cu. Yds.
A1		18.6
A2		46.1
B		10.7
C		10.6
D		10.6
E		12.0
TOTAL THIS SHEET		108.6
PARAPET		8.0 Cu. Yds.



FOUNDATION PLAN

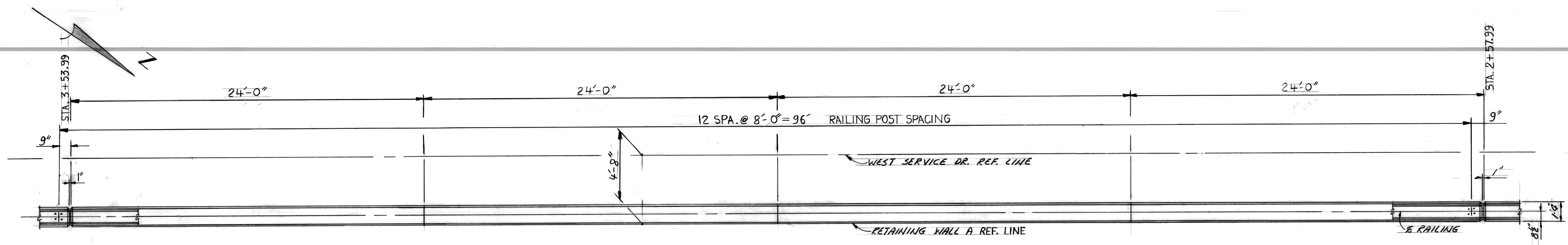


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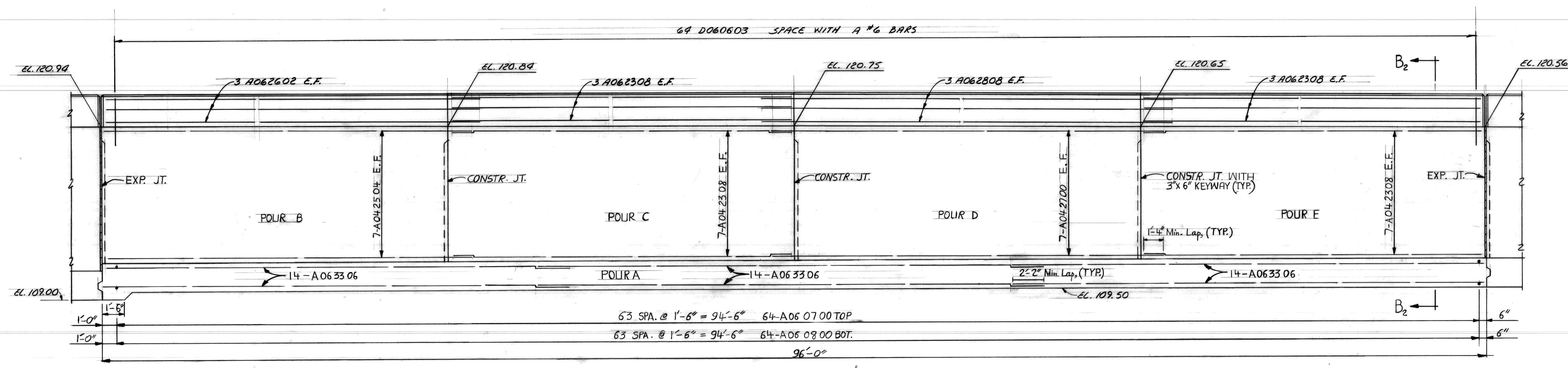
NOTE: ALL REINFORCING STEEL SPACING IS ALONG REFERENCE LINE.

COORD. DESCRIPTION REVISIONS LOCATED BY COORDINATES ON SHEET		REFERENCE DRAWINGS DESIGNED BY: M.C. DRAWN BY: N.H. TRACED BY: CHECKED BY:	APPROVED: ASSISTANT CITY ENGINEER DIRECTOR	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B	SHEET 7 OF 18 SHEETS CONTRACT NO. ASSIGNMENT 77 22 19 DATE
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RETAINING WALL A DETAILS

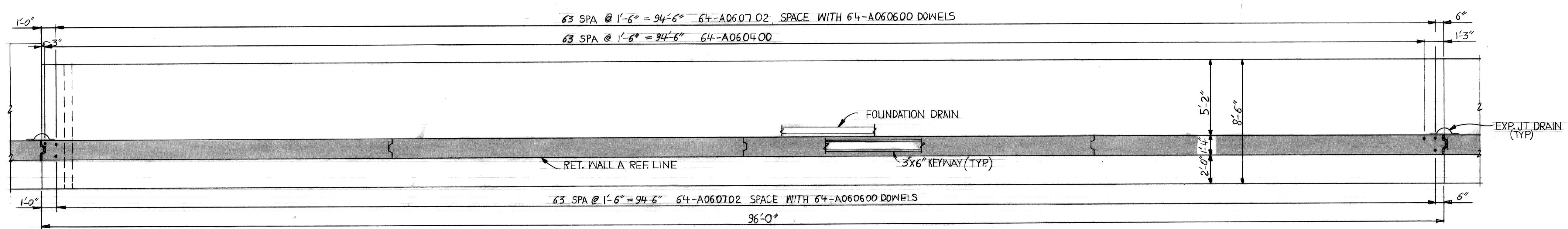


PLAN OF TOP



ELEVATION

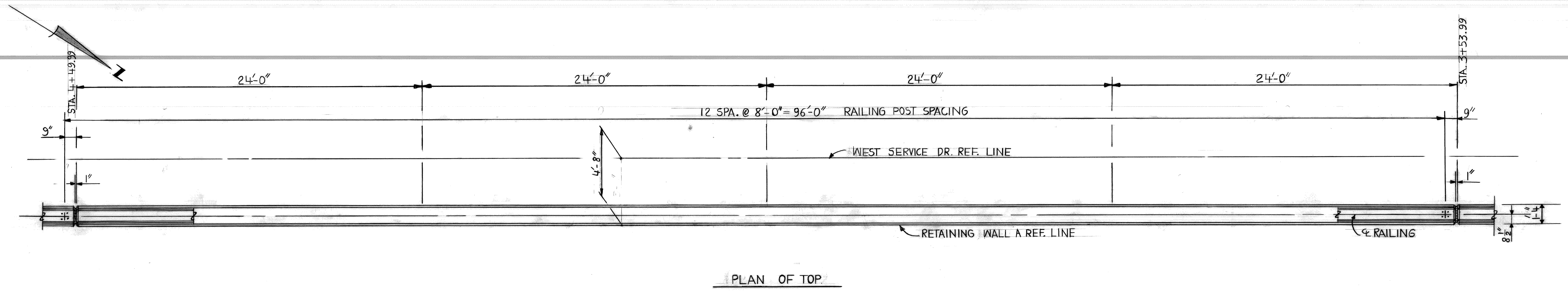
SUBSTRUCTURE CONCRETE QUANTITIES	
POUR	Gr. 355 Cu. Yds.
A	60.8
B	11.1
C	11.0
D	10.9
E	10.8
TOTAL THIS SHEET	104.6
PARAPET	8.0 Cu. Yds.



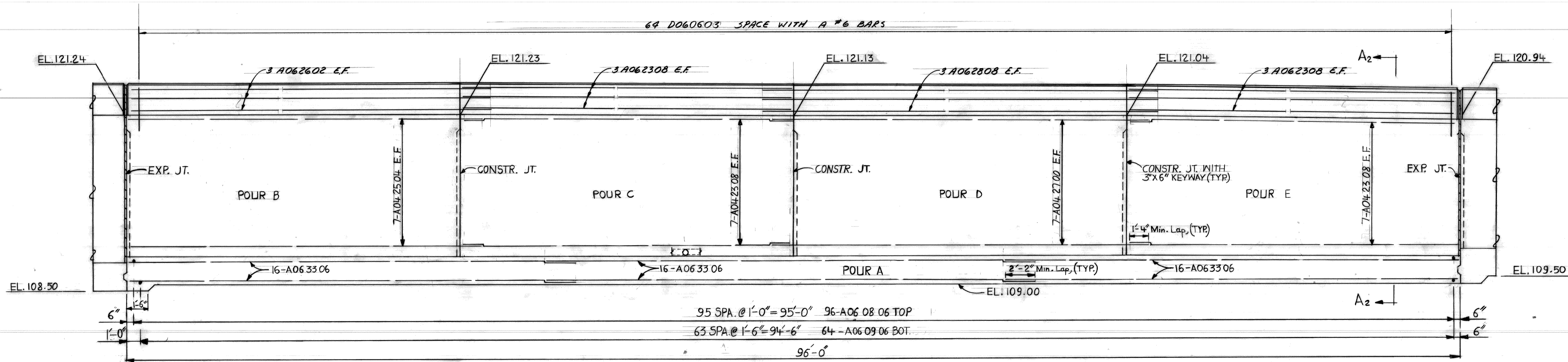
FOUNDATION PLAN

COORD DESCRIPTION REVISIONS LOCATED BY COORDINATES ON SHEET	REFERENCE DRAWINGS	DESIGNED BY <i>M.C.</i>	APPROVED: ASSISTANT CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B	SHEET 8 OF 18 SHEETS
	DRAWN BY <i>N.H.</i>	TRACED BY	DIRECTOR			CONTRACT NO.
CHECKED BY	RETAINING WALL A DETAILS				DATE	



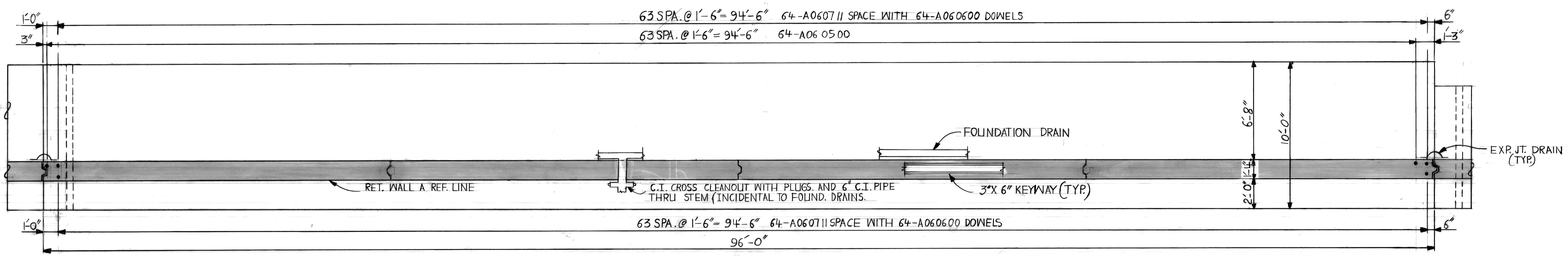


PLAN OF TOP



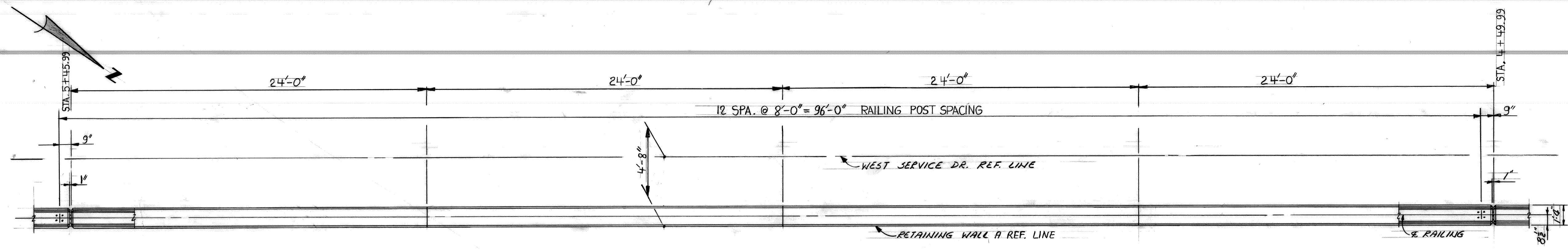
ELEVATION

SUBSTRUCTURE CONCRETE QUANTITIES	
POUR	Gr. 35 S Cu. Yds.
A	71.4
B	12.1
C	12.1
D	12.0
E	11.8
TOTAL THIS SHEET	119.4
PARAPET	8.0 Cu. Yds.

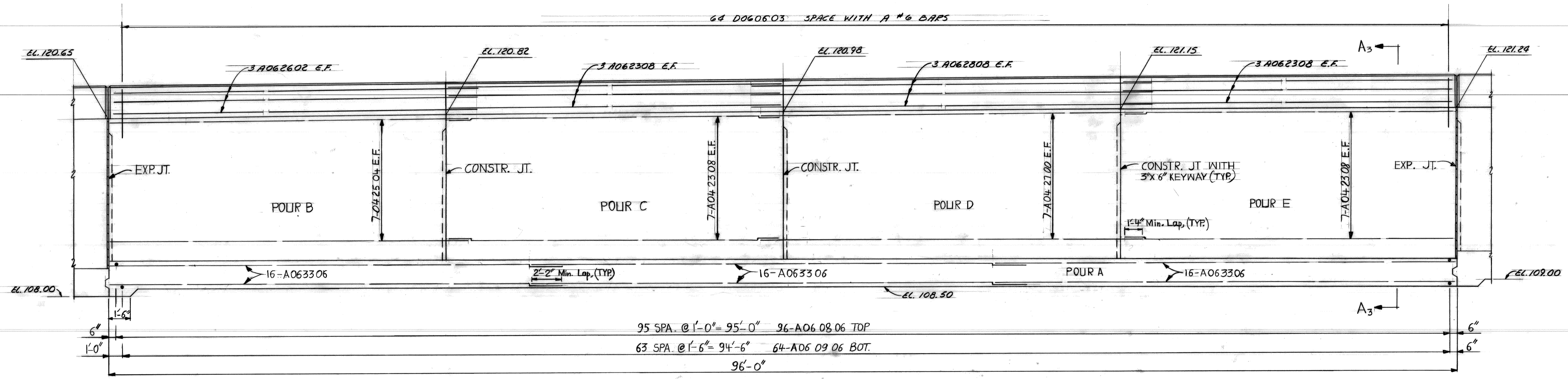


FOUNDATION PLAN

COORD. DESCRIPTION REVISIONS LOCATED BY COORDINATES ON SHEET		REFERENCE DRAWINGS DESIGNED BY: M.C. DRAWN BY: N.H. TRACED BY: CHECKED BY:	APPROVED: ASSISTANT CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B RETAINING WALL A DETAILS	SHEET 9 OF 18 SHEETS CONTRACT NO. ASSIGNMENT NO. 77 22 19 DATE
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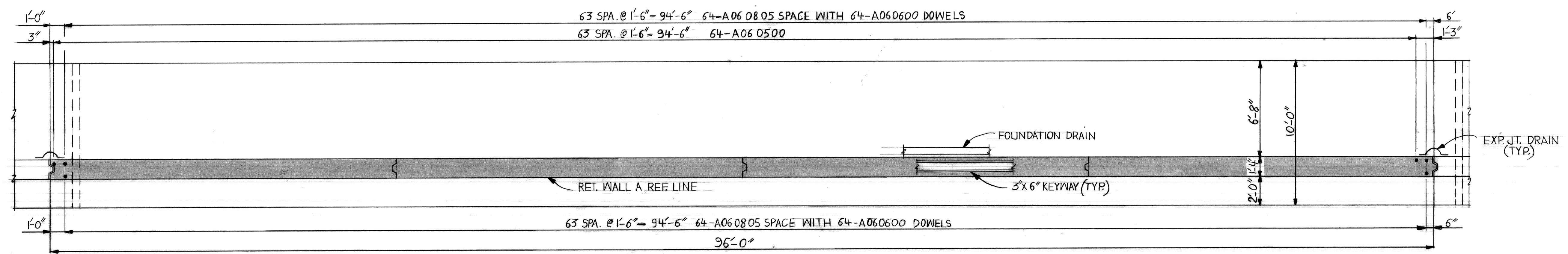


PLAN OF TOP



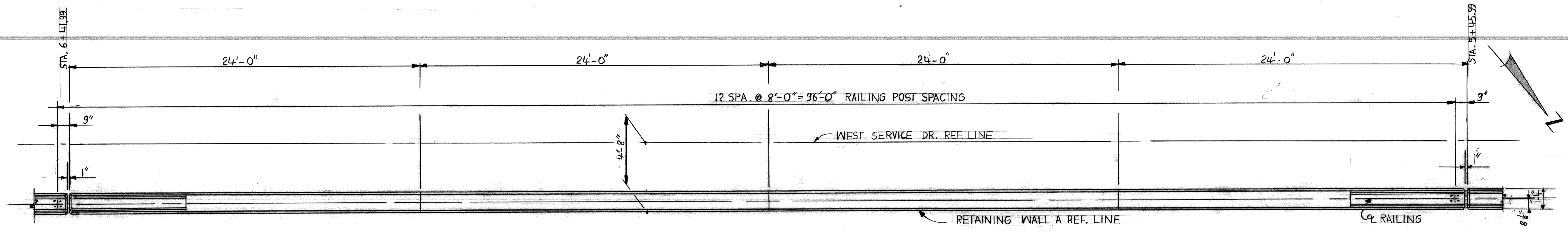
ELEVATION

SUBSTRUCTURE CONCRETE QUANTITIES	
POUR	Gr. 35S Cu. Yds.
A	71.4
B	12.1
C	12.3
D	12.5
E	12.7
TOTAL THIS SHEET	121.0
PARAPET	8.0 Cu. Yds.

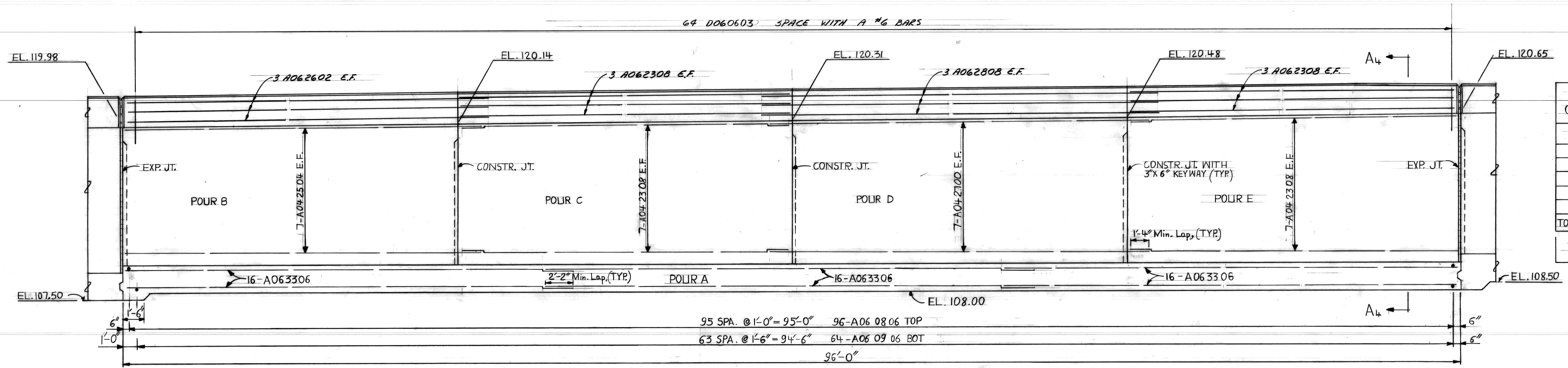


FOUNDATION PLAN

REFERENCE DRAWINGS DESIGNED BY: M.C. DRAWN BY: N.H. TRACED BY: CHECKED BY:			APPROVED: ASSISTANT CITY ENGINEER DIRECTOR		CITY OF DETROIT CITY ENGINEERING DEPARTMENT			JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B			SHEET 10 OF 18 SHEETS					
REVISIONS LOCATED BY COORDINATES ON SHEET								RETAINING WALL A DETAILS			CONTRACT NO. ASSIGNMENT NO. 772219 DATE					
COORD	DESCRIPTION	DRN	CKD	APVD	DATE	1	2	3	4	5	6	7	8	9	10	11

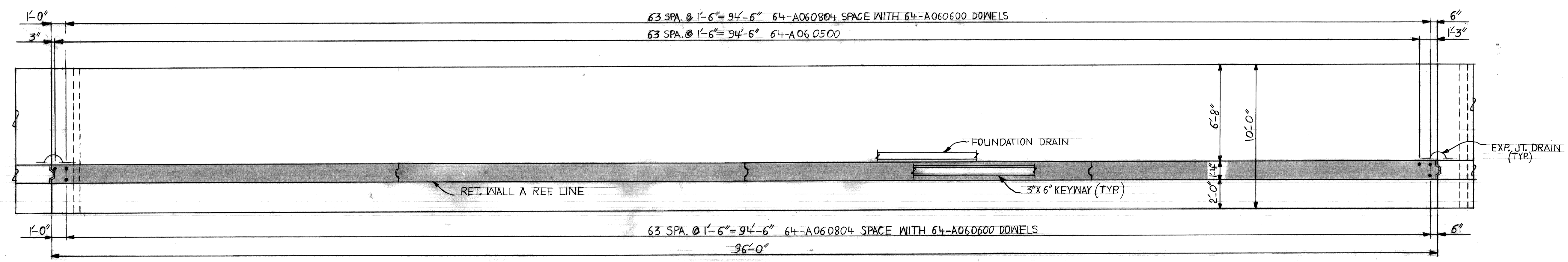


PLAN OF TOP



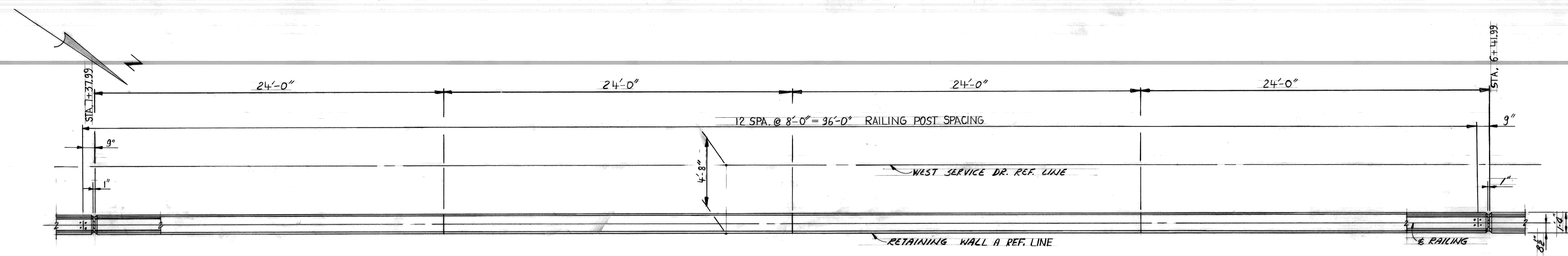
ELEVATION

SUBSTRUCTURE CONCRETE QUANTITIES	
POLIR	Gr 355 Cu Yds.
A	71.4
B	11.9
C	12.1
D	12.3
E	12.5
TOTAL THIS SHEET 120.2	
PARAPET 8.0 Cu Yds.	

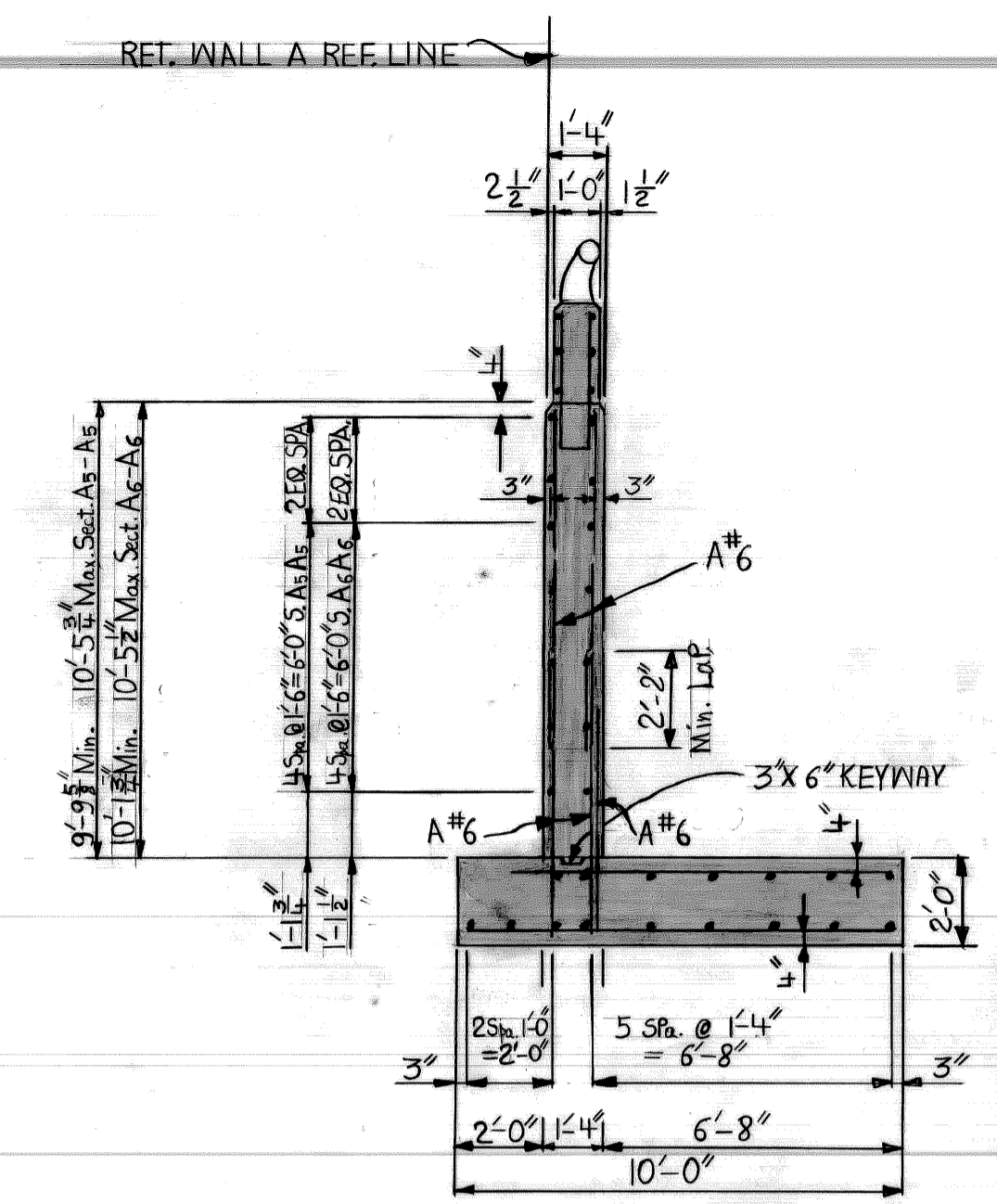


FOUNDATION PLAN

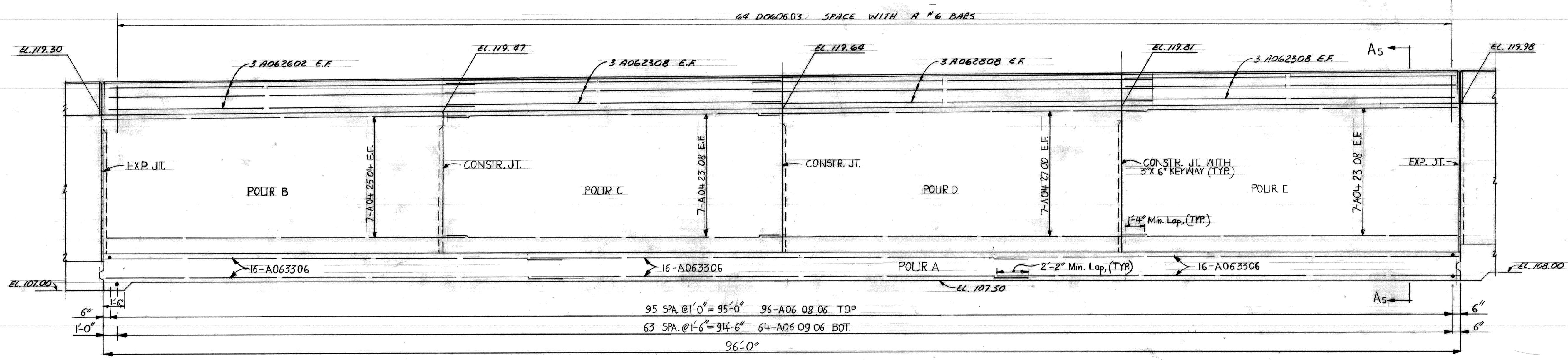
<table border="1"> <tr> <td>COOR'D</td> <td>DESCRIPTION</td> <td>DRN</td> <td>CHK'D</td> <td>AP'D</td> <td>DATE</td> </tr> <tr> <td colspan="6">REVISIONS LOCATED BY COORDINATES ON SHEET</td> </tr> </table>		COOR'D	DESCRIPTION	DRN	CHK'D	AP'D	DATE	REVISIONS LOCATED BY COORDINATES ON SHEET						<table border="1"> <tr> <td>DESIGNED BY</td> <td>M.C.</td> </tr> <tr> <td>DRAWN BY</td> <td>N.H.</td> </tr> <tr> <td>TRACED BY</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> </tr> </table>	DESIGNED BY	M.C.	DRAWN BY	N.H.	TRACED BY		CHECKED BY		<table border="1"> <tr> <td>APPROVED:</td> <td></td> </tr> <tr> <td></td> <td>ASSISTANT CITY ENGINEER</td> </tr> <tr> <td></td> <td>DIRECTOR</td> </tr> </table>	APPROVED:			ASSISTANT CITY ENGINEER		DIRECTOR	<p align="center">CITY OF DETROIT CITY ENGINEERING DEPARTMENT</p>	<p align="center">JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A &amp; B</p>	<p align="center">RETAINING WALL A DETAILS</p>	<p>SHEET 11 OF 18 SHEETS</p> <p>CONTRACT NO.</p> <p>ASSIGNMENT NO. 77-22-10</p> <p>DATE</p>
COOR'D	DESCRIPTION	DRN	CHK'D	AP'D	DATE																												
REVISIONS LOCATED BY COORDINATES ON SHEET																																	
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DRAWN BY	N.H.																																
TRACED BY																																	
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	ASSISTANT CITY ENGINEER																																
	DIRECTOR																																



PLAN OF TOP

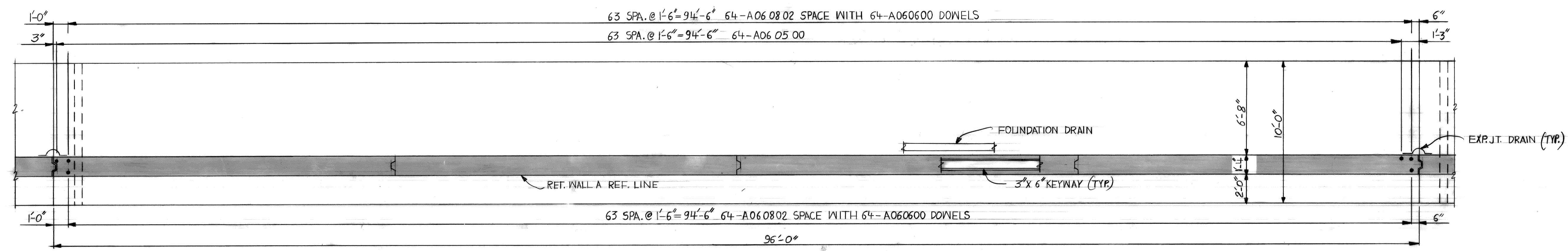


SECTION A5A5, A6A6



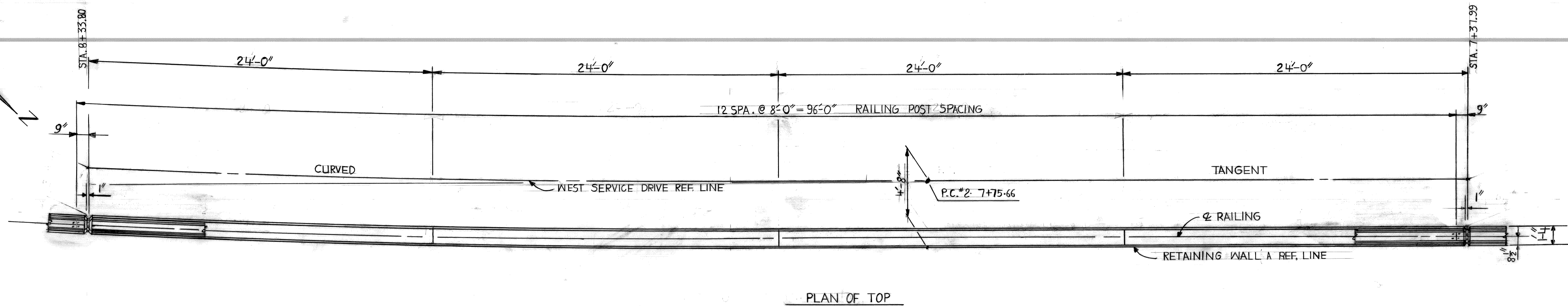
ELEVATION

SUBSTRUCTURE CONCRETE QUANTITIES	
POLIR	Gr. 35 S Cu. Yds.
A	71.4
B	11.7
C	11.9
D	12.1
E	12.3
TOTAL THIS SHEET	119.4
PARAPET	8.0 Cu. Yds.

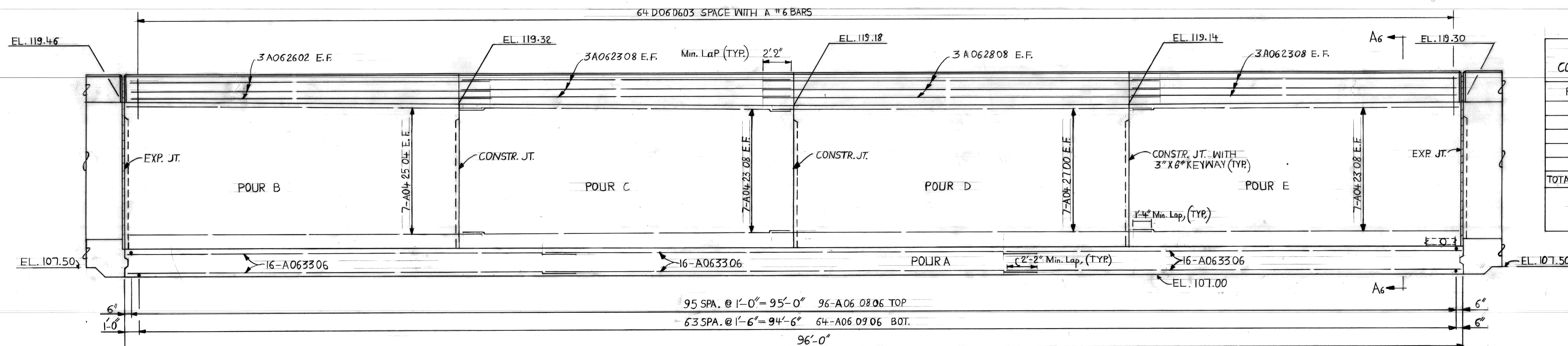


FOUNDATION PLAN

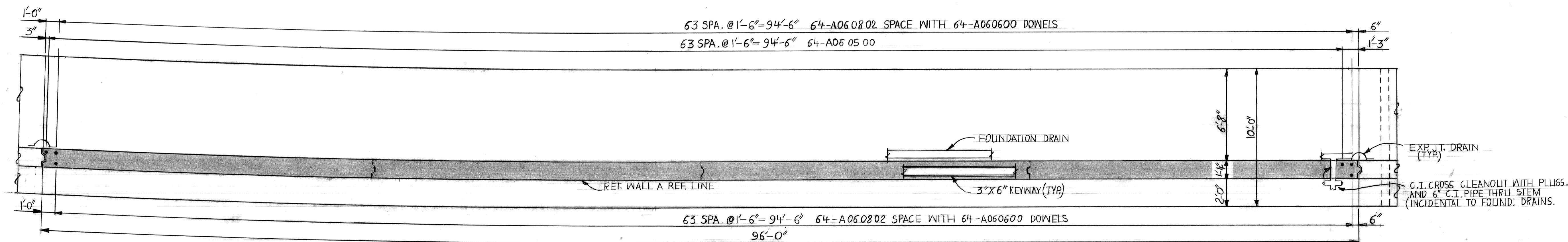
<table border="1"> <tr> <td>DESIGNED BY</td> <td>M.C.</td> </tr> <tr> <td>DRAWN BY</td> <td>N.H.</td> </tr> <tr> <td>TRACED BY</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> </tr> </table>	DESIGNED BY	M.C.	DRAWN BY	N.H.	TRACED BY		CHECKED BY		<table border="1"> <tr> <td>APPROVED:</td> <td></td> </tr> <tr> <td></td> <td>ASSISTANT CITY ENGINEER</td> </tr> <tr> <td></td> <td>DIRECTOR</td> </tr> </table>	APPROVED:			ASSISTANT CITY ENGINEER		DIRECTOR	<p align="center">CITY OF DETROIT CITY ENGINEERING DEPARTMENT</p>	<p align="center">JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A &amp; B</p>	<p>SHEET 12 OF 18 SHEETS</p> <p>CONTRACT NO.</p> <p>ASSIGNMENT NO. 172219</p> <p>DATE</p>
DESIGNED BY	M.C.																	
DRAWN BY	N.H.																	
TRACED BY																		
CHECKED BY																		
APPROVED:																		
	ASSISTANT CITY ENGINEER																	
	DIRECTOR																	
<p align="center">REVISIONS LOCATED BY COORDINATES ON SHEET</p>				<p align="center">RETAINING WALL A DETAILS</p>														



PLAN OF TOP



ELEVATION

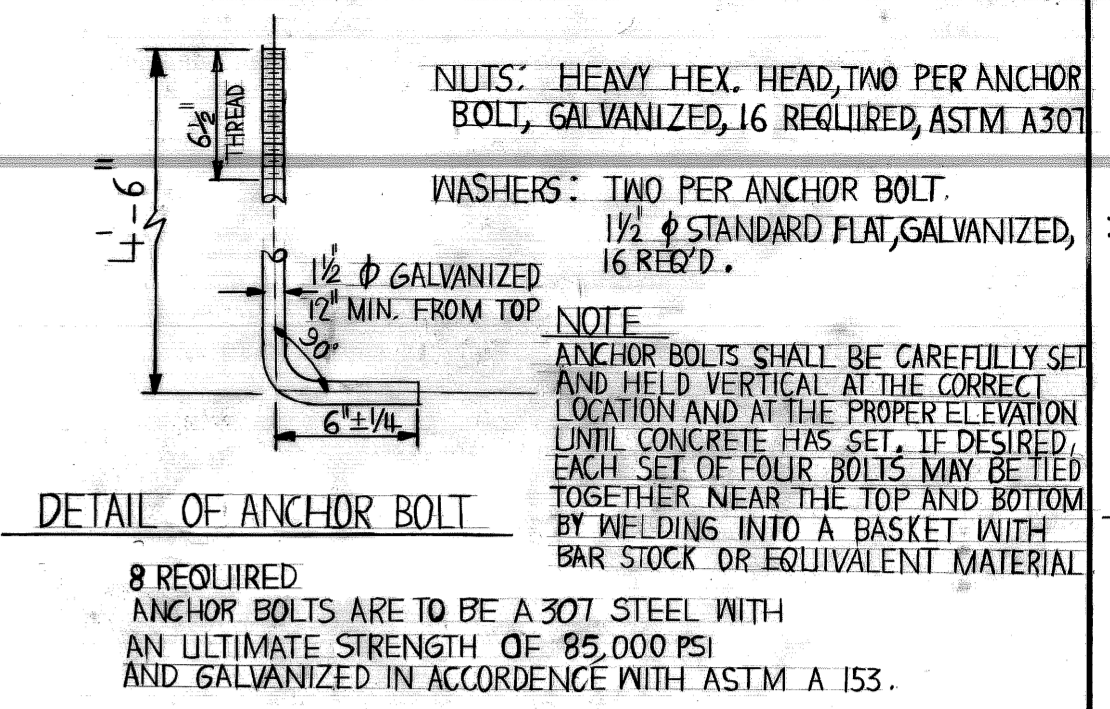
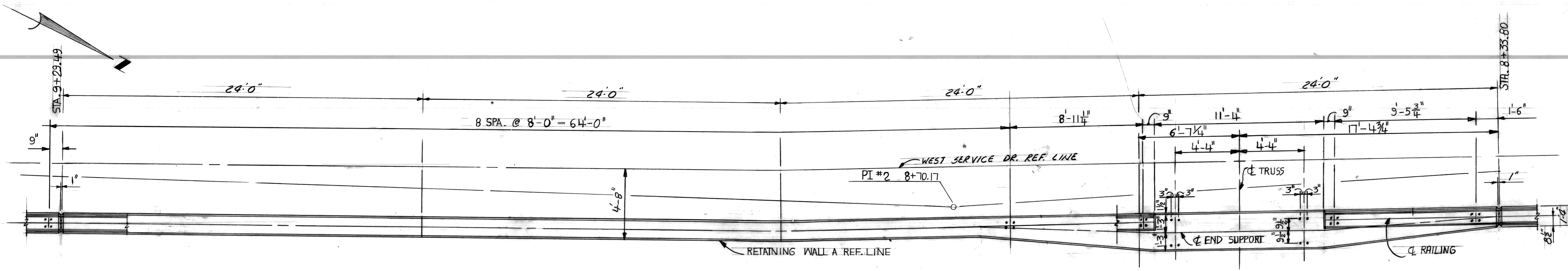


FOUNDATION PLAN

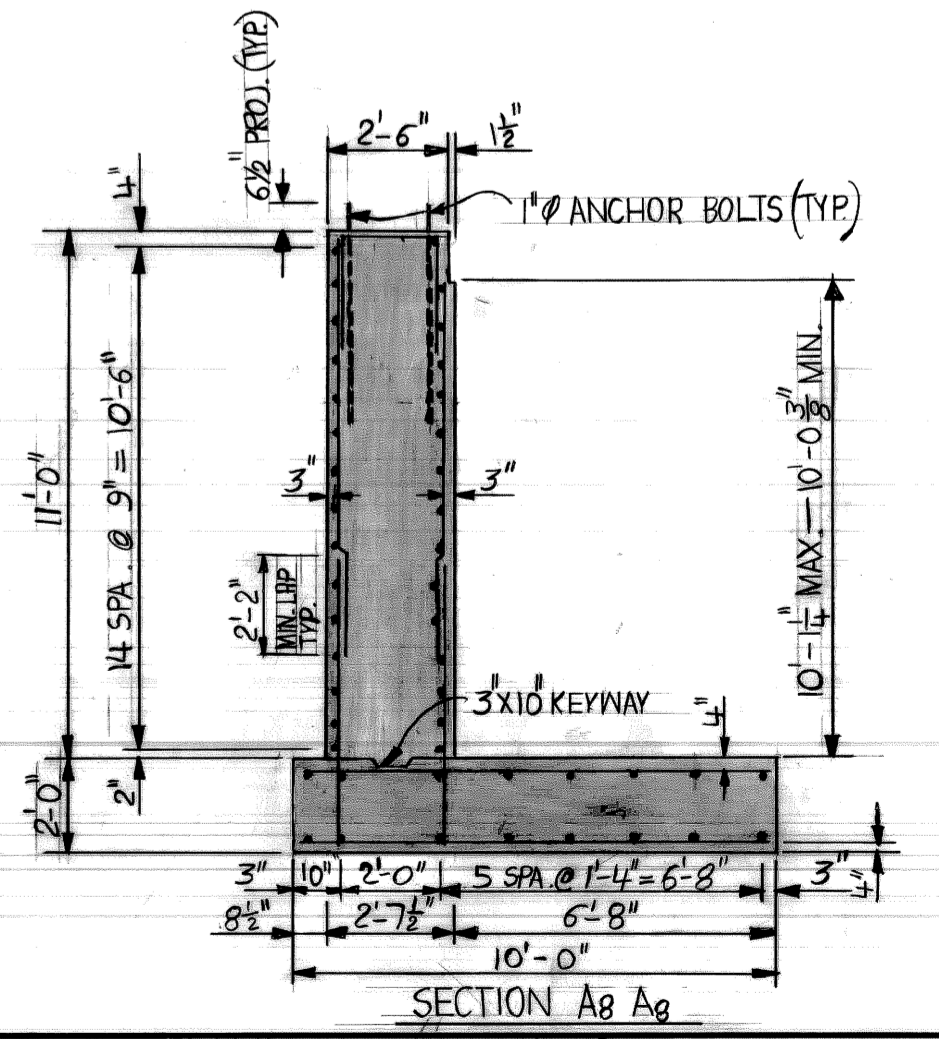
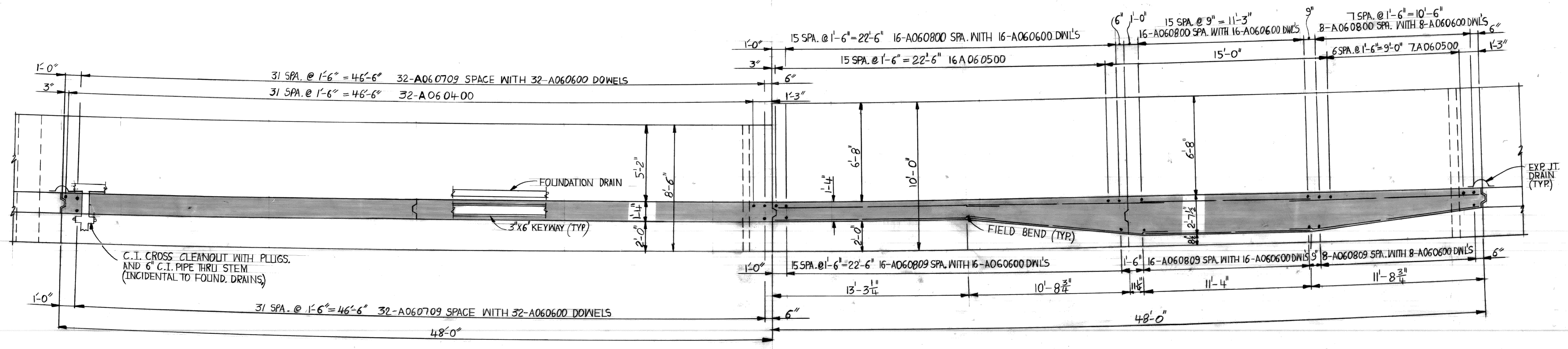
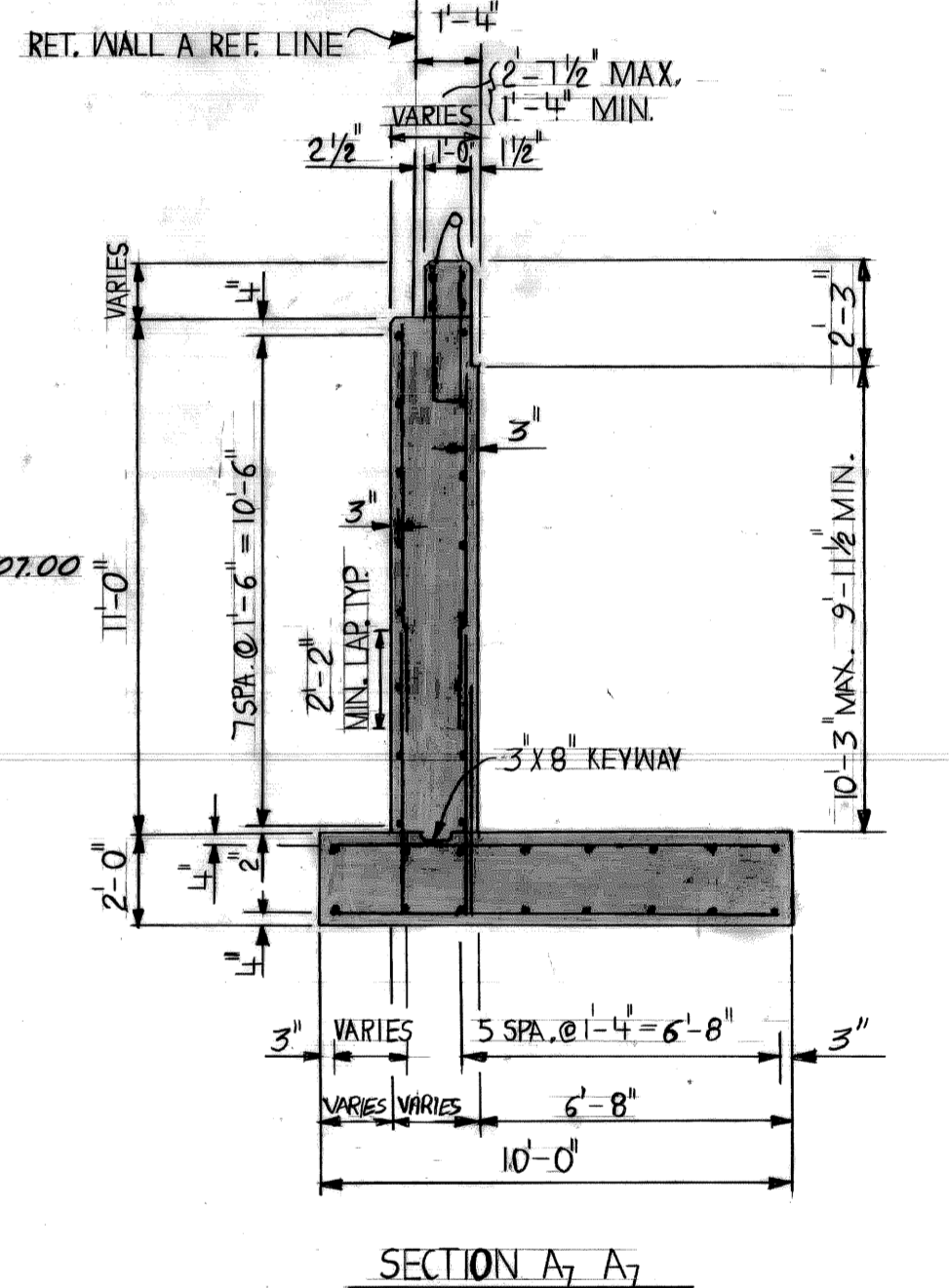
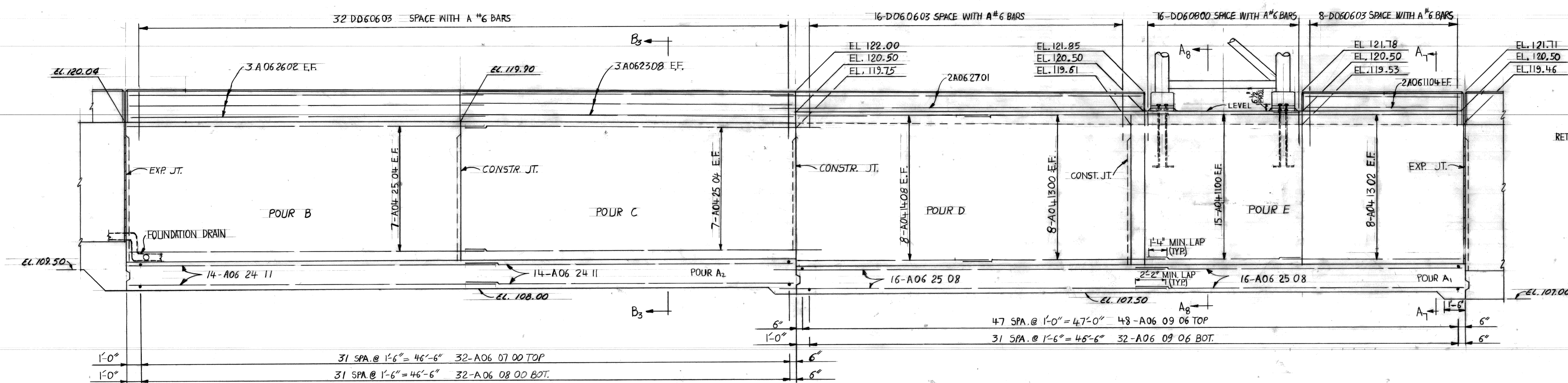
NOTE: ALL REINFORCING STEEL SPACING IS ALONG REFERENCE LINE.

SUBSTRUCTURE CONCRETE QUANTITIES	
POUR	Gr. 355 Cu. Yds.
A	71.0
B	12.3
C	12.2
D	12.0
E	12.1
TOTAL THIS SHEET	119.6
PARAPET	8.0 Cu. Yds.

COORD. DESCRIPTION REVISIONS LOCATED BY COORDINATES ON SHEET	REFERENCE DRAWINGS	DESIGNED BY <i>M.C.</i>	APPROVED: _____ ASSISTANT CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD TO MICHIGAN AVE. RET. WALL A & B	SHEET 13 OF 18 SHEETS
		DRAWN BY <i>N.H.</i>				CONTRACT NO.
		TRACED BY				ASSIGNMENT NO. 77-22-10
		CHECKED BY	_____ DIRECTOR			DATE

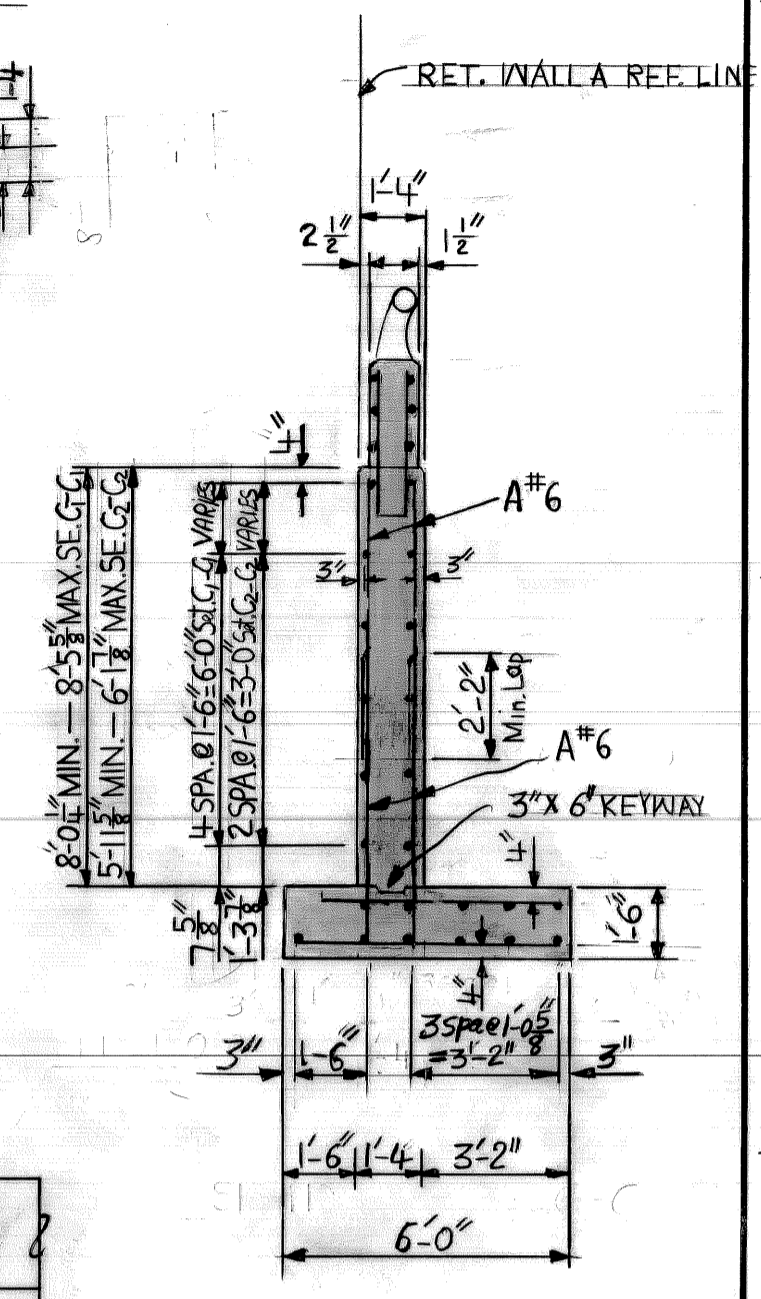
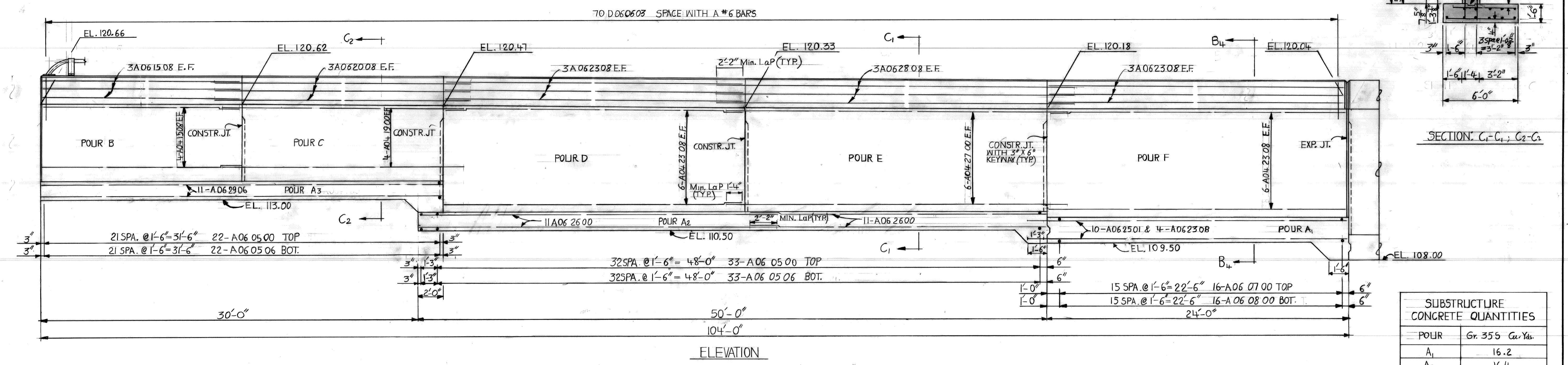
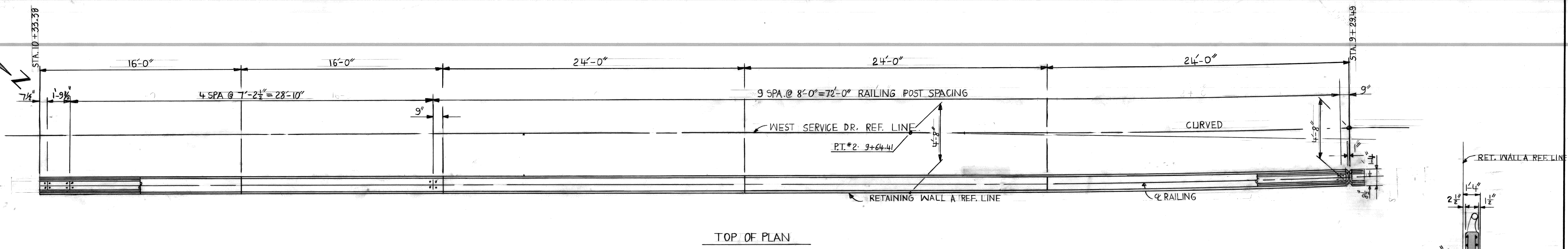


SUBSTRUCTURE	
CONCRETE QUANTITIES	
POUR	GR. 35 S cu. YDS
A <sub>1</sub>	35.8
A <sub>2</sub>	30.5
B	11.8
C	11.6
D	15.3
E	22.5
TOTAL THIS SHEET	127.5
PARAPET	5.9 CU. YDS.

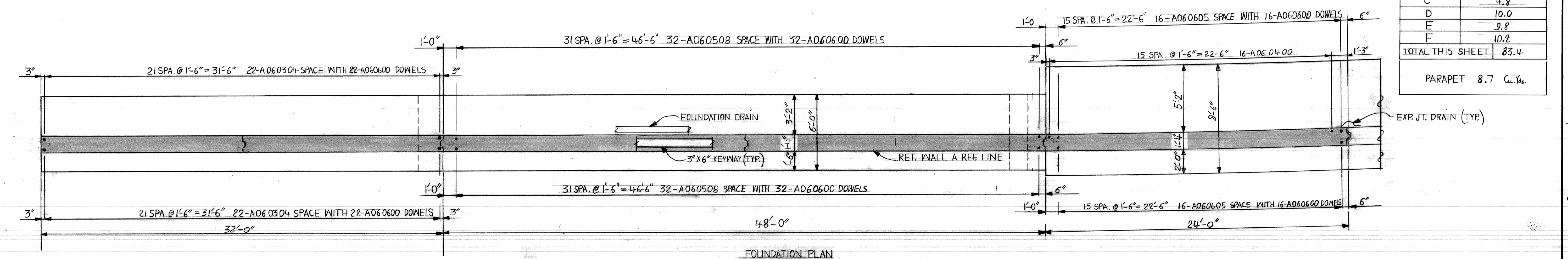


NOTE: ALL REINFORCING STEEL SPACING IS ALONG REFERENCE LINE.

REFERENCE DRAWINGS DESIGNED BY: M.C. DRAWN BY: N.H. TRACED BY: CHECKED BY:		APPROVED: ASSISTANT CITY ENGINEER DIRECTOR		CITY OF DETROIT CITY ENGINEERING DEPARTMENT			JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B			SHEET 14 OF 18 SHEETS CONTRACT NO. ASSIGNMENT NO. 77 22 19 DATE	
RETAINING WALL A DETAILS											

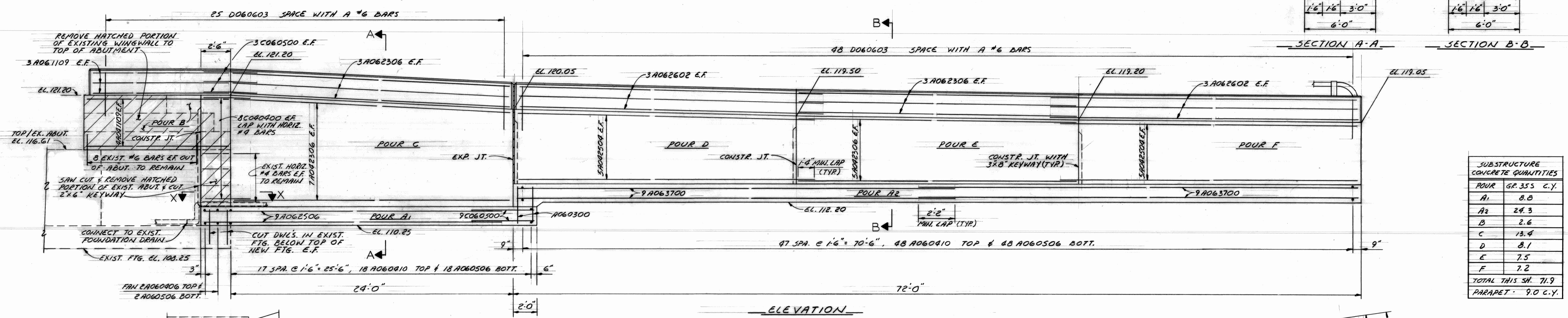
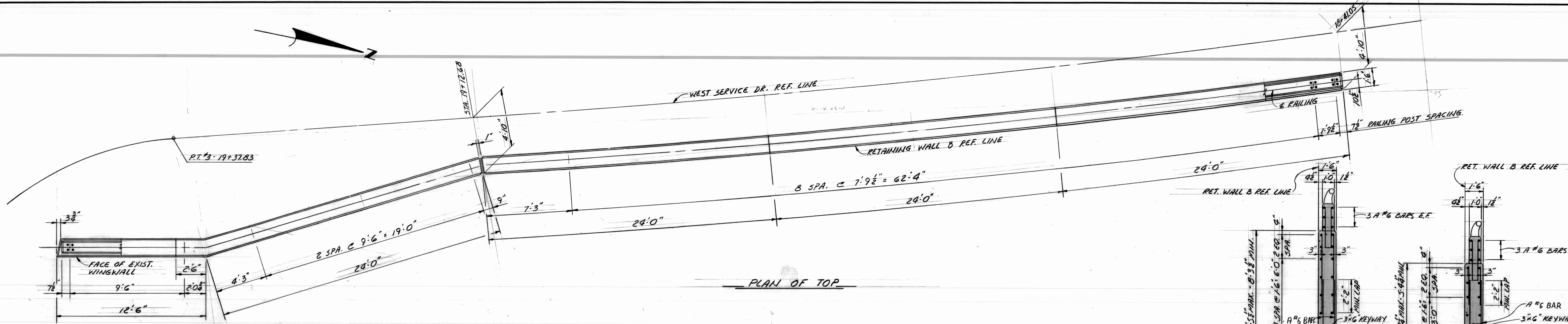


SUBSTRUCTURE CONCRETE QUANTITIES	
POUR	Gr. 355 Cu. Yds.
A <sub>1</sub>	16.2
A <sub>2</sub>	16.4
A <sub>3</sub>	11.2
B	4.9
C	4.8
D	10.0
E	9.8
F	10.2
TOTAL THIS SHEET	83.4
PARAPET	8.7 Cu. Yds.

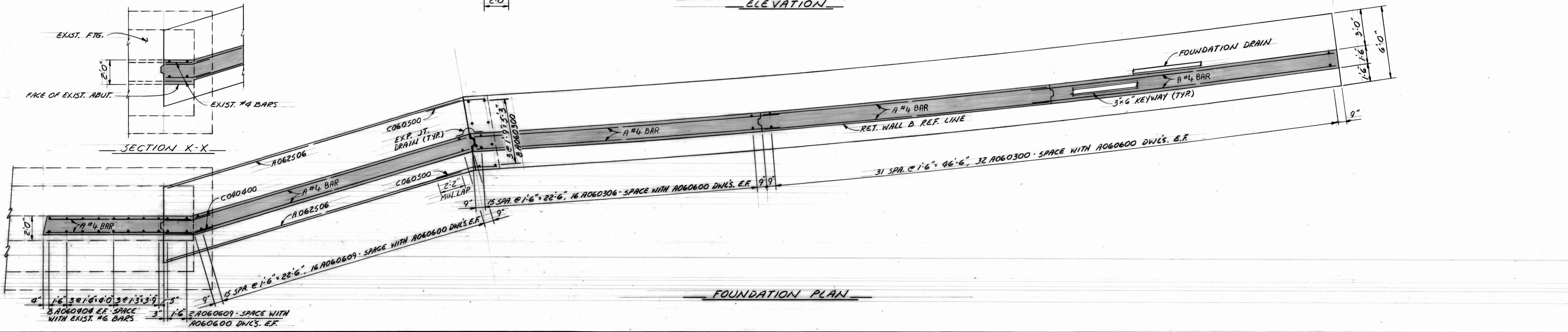


NOTE: ALL REINFORCING STEEL SPACING IS ALONG REFERENCE LINE

DESIGNED BY: M.C. DRAWN BY: N.H. TRACED BY: CHECKED BY:		APPROVED: ASSISTANT CITY ENGINEER DIRECTOR		CITY OF DETROIT CITY ENGINEERING DEPARTMENT		JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B		SHEET 15 OF 18 SHEETS CONTRACT NO. ASSIGNMENT NO. 772219 DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET									



SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	GR. 355	C.Y.
A1	8.0	
B	24.3	
C	2.6	
D	13.4	
E	8.1	
F	7.5	
TOTAL THIS SH.	77.9	
PARAPET	9.0	C.Y.



REVISIONS LOCATED BY COORDINATES ON SHEET TELDYNE POST N03155		DESIGNED BY DRAWN BY <i>A.G.</i> TRACED BY CHECKED BY	APPROVED: ASSISTANT CITY ENGINEER DIRECTOR	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	JEFFRIES FREEWAY WEST SERVICE DRIVE WIDENING M.L. KING JR. BLVD. TO MICHIGAN AVE. RET. WALL A & B RETAINING WALL B DETAILS	SHEET 16 OF 18 SHEETS CONTRACT NO. ASSIGNMENT NO. 77 22 10 DATE
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