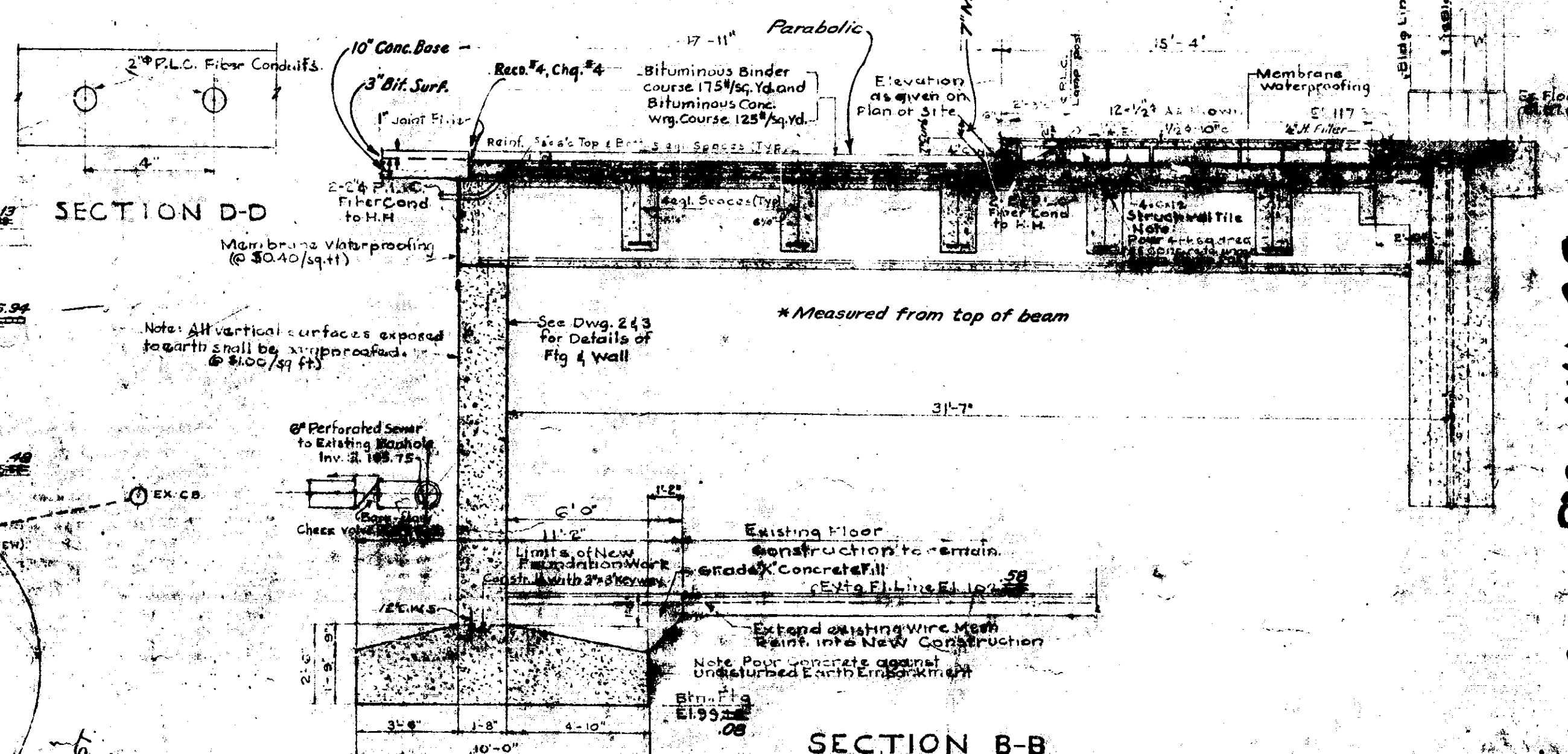
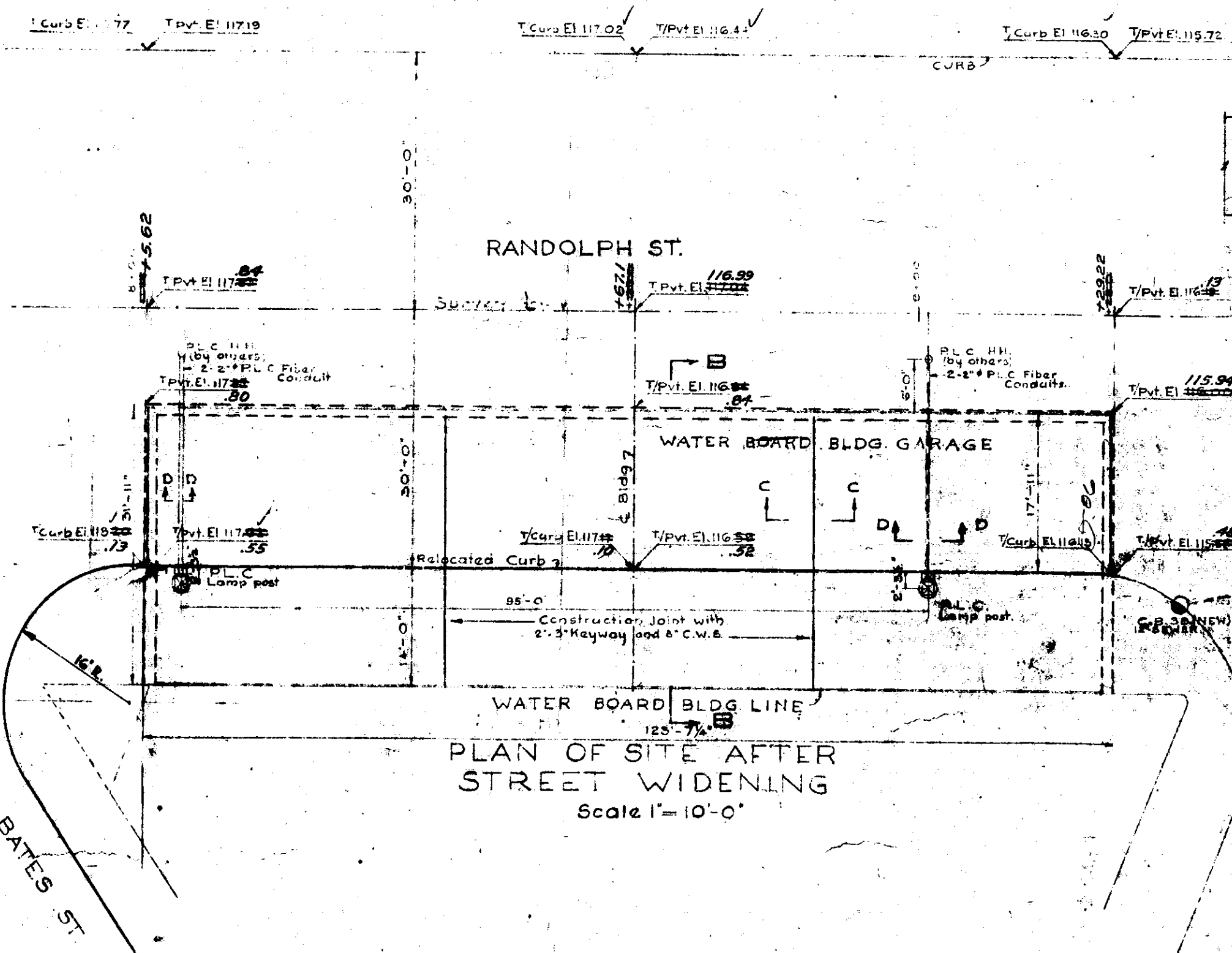
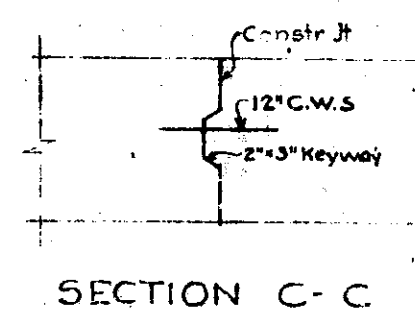
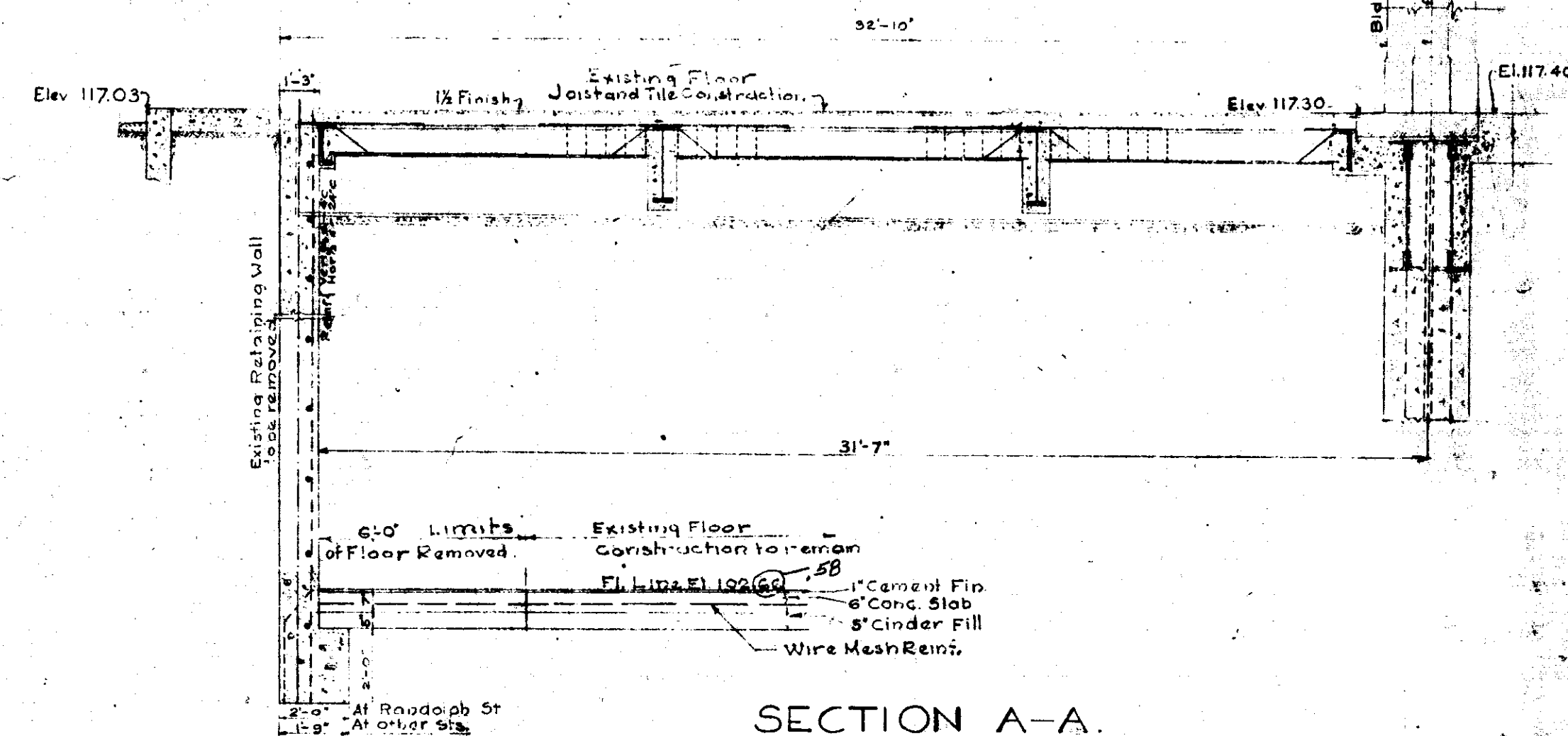
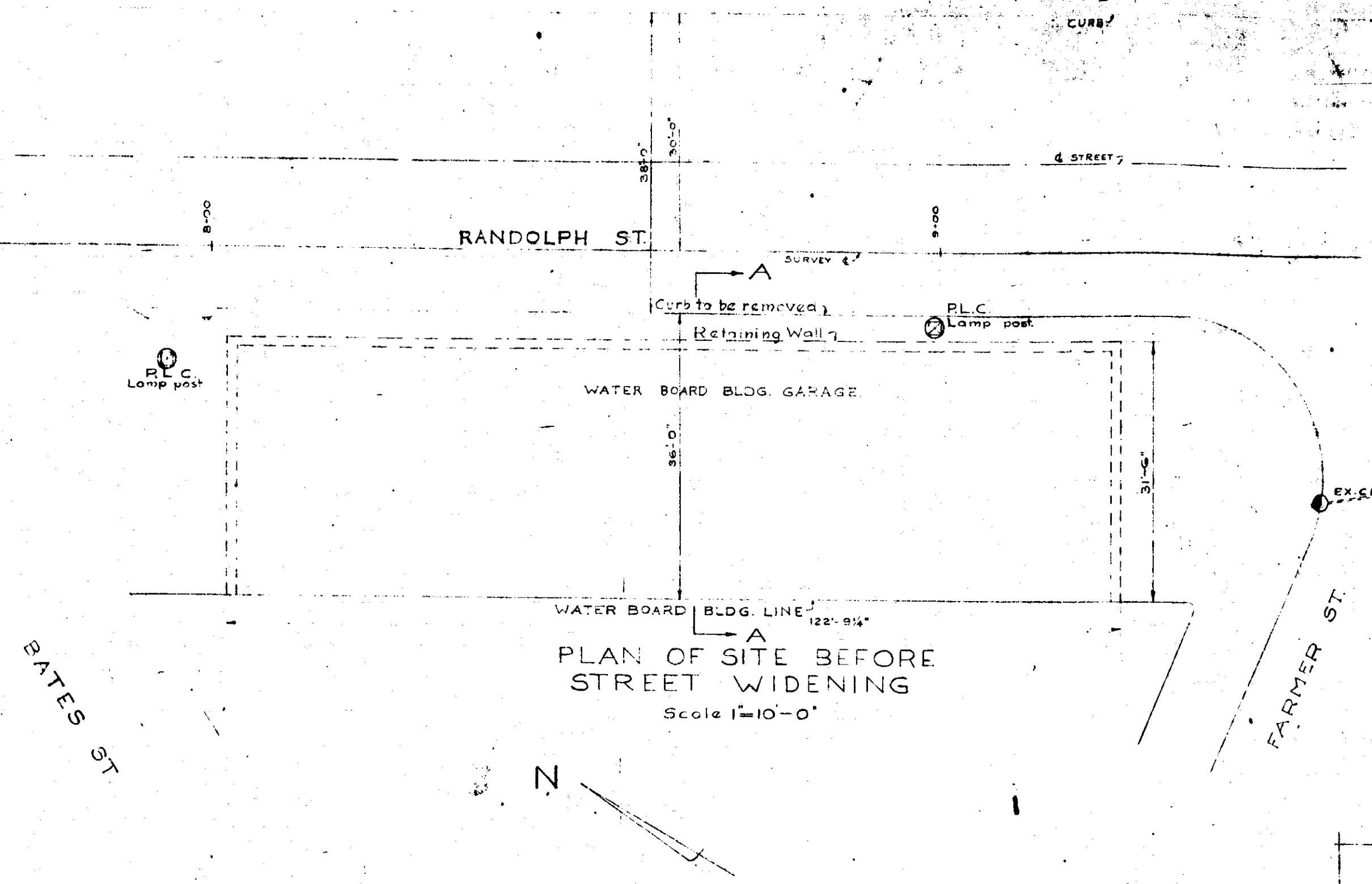


L-55-C-5B

82072 CB
82-141

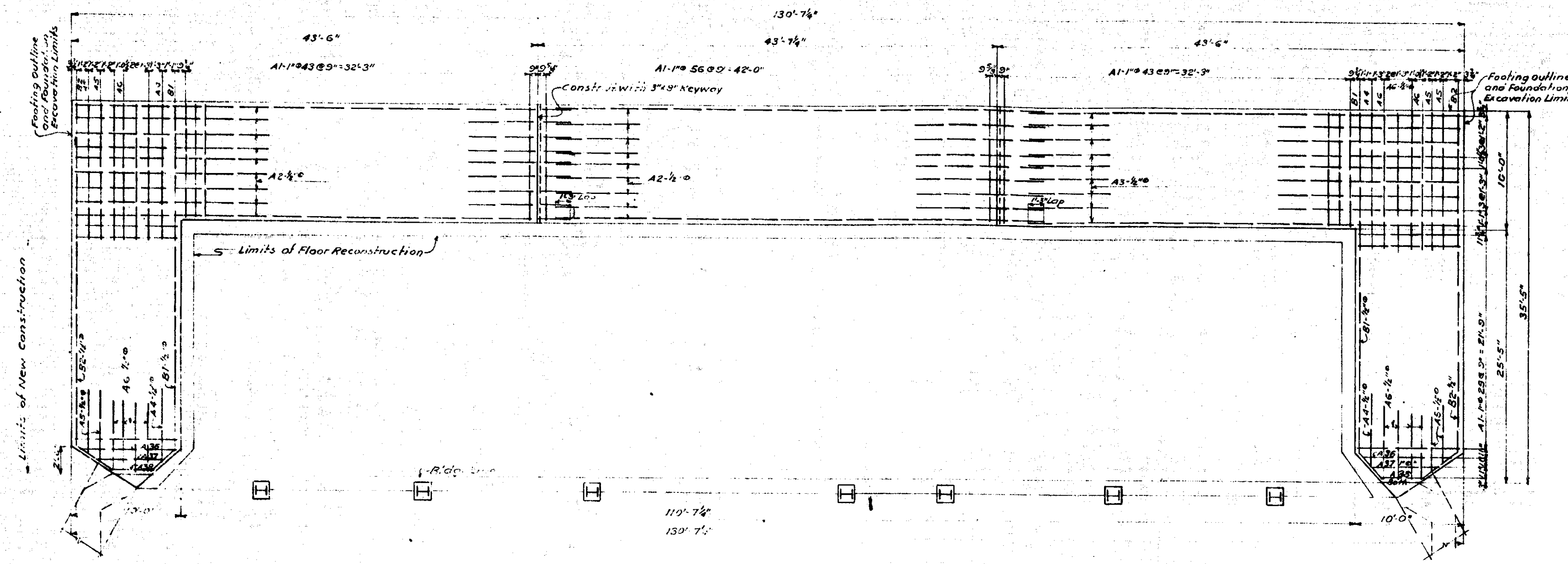
CS: 82072

ID: C8 82-141 L-55-C-5B

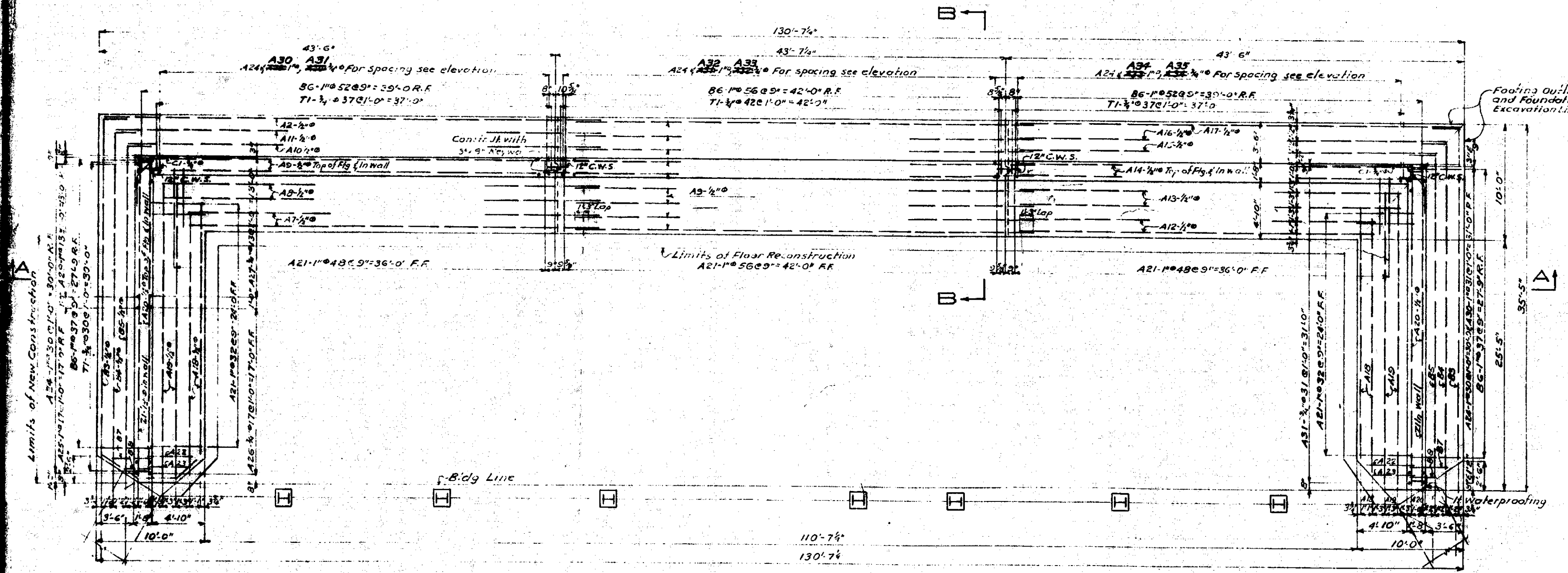


DATE		DESIGNED BY		CHECKED BY		APPROVED		CONSULTING ENGINEER		GENERAL PLAN AND SECTIONS		CITY OF DETROIT DEPARTMENT OF WATER SUPPLY DIVISION OF ENGINEERING		122	
10/1/55		J. A. SHOWN		J. A. SHOWN		BURT S. GENERAL MANAGER		BURT S. GENERAL MANAGER		SCALE: AS SHOWN DATE		STEVEN ANTONOFF & ASSOCIATES DETROIT, MICH.		L-55-C-5	

R2072 82-141 C8



PLAN AT BOTTOM OF FOOTING
Showing Reinforcement Details

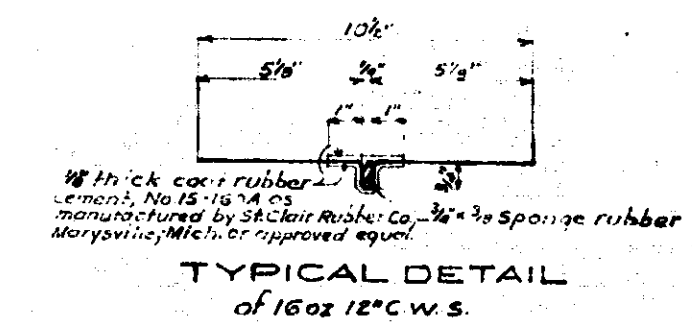


PLAN AT TOP OF FOOTING
Showing Reinforcement Details

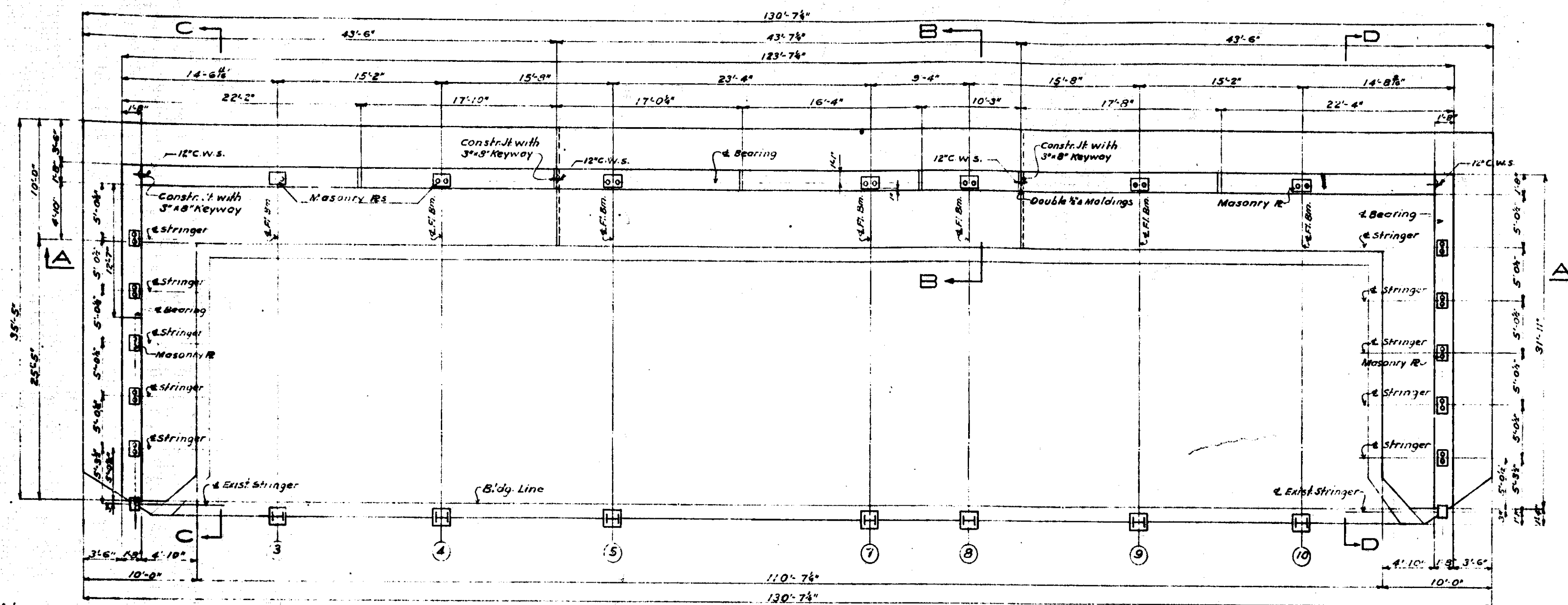
Note: Work this sheet with sheet 344.

MISCELLANEOUS QUANTITIES		
ITEM	Unit	Quantities
Excavation, Excavation	Cu. Yds.	506.5 Reco. N ^o . 1, Chg. N ^o . 1
Sand Gravel Basefill	Cu. Yds.	500.0
Compaction	Sq. Ft.	1757 Reco. N ^o . 9, Chg. N ^o . 11
Membrane Waterproofing	Sq. Ft.	2743 " N ^o . 10, Chg. N ^o . 13
Wire Fireproofing	Lbs.	1972 " N ^o . 12, Chg. N ^o . 12
Joint Filler	Sq. Ft.	0 " N ^o . 8, Chg. N ^o . 9
12" C. W. S.	Sq. Ft.	62 " N ^o . 8, Chg. N ^o . 15
12" C. W. S.	Lbs.	239
12" C. W. S.	Units	2600 Reco. N ^o . 11, Chg. N ^o . 15

CONCRETE QUANTITIES		
Retaining wall, ft.		
POUR	Grade A (6A) Cu. Yds.	Grade A (6B) Cu. Yds.
A	51.8	
B	55.4	
C	55.8	
	162.9	134.5 Reco. N ^o . 2, Chg. N ^o . 2
D		27.5
E		29.5
F		24.3
G		25.9
H		25.8
		149.4
Grav. X Concrete fill		50 Reco. N ^o . 3, Chg. N ^o . 3
		50 Reco. N ^o . 3, Chg. N ^o . 5

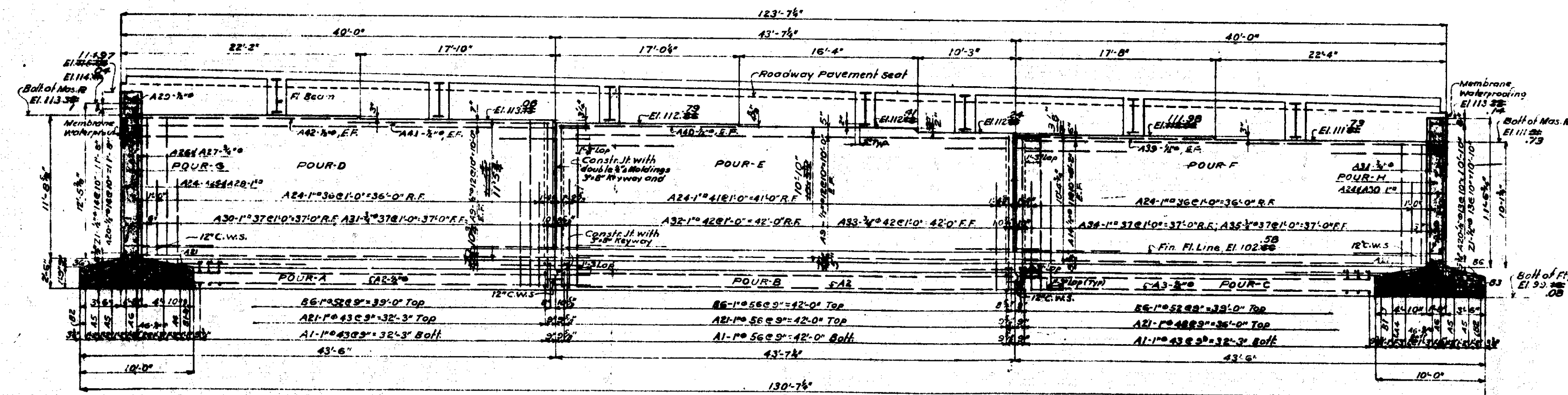


NOTED BY	REFERENCE DWG'S	DRAWN BY	APPROVED	CITY OF DETROIT DEPARTMENT OF WATER SUPPLY DIVISION OF ENGINEERING STEVEN ANTONOFF (ASSOCIATES) DETROIT MICH.	Project 62-141 DWG. 2 L-55-C-5-B
TRACED BY		Consulting Engineer			
CHECKED BY					
		SUP'T. & GENERAL MANAGER			
RANDOLPH STREET WIDENING-CITY OF DETROIT ALTERATION TO WATER BOARD BLDG. PARKING GARAGE FOOTING PLAN DETAILS SCALE AS SHOWN DATE					

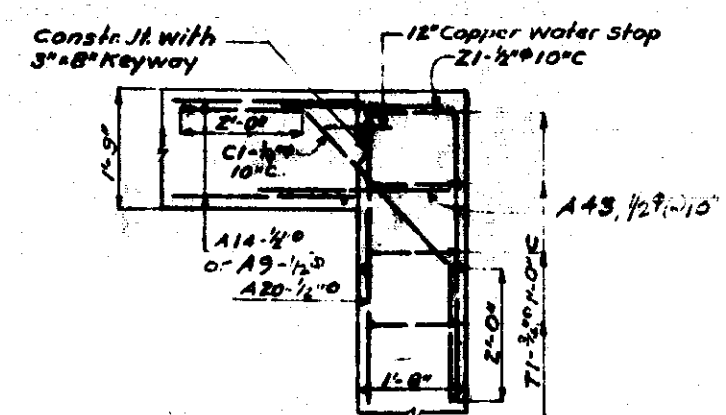


Notes:
 All possible care shall be exercised by the Contractor to prevent damage to adjoining parts of the structure during the removal of the existing walls and slab.
 All available horizontal reinforcing bars in the existing walls shall be embedded in the new walls.
 Joints between existing walls and new walls shall be caulked with lead wad and made water tight by a method approved by the Engineer. Lead wad is not a separate pay item.

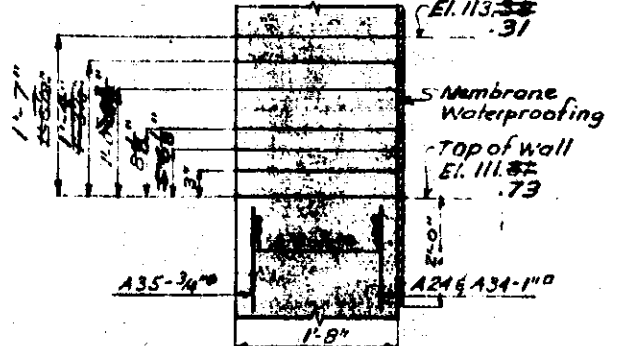
PLAN AT TOP OF WALL



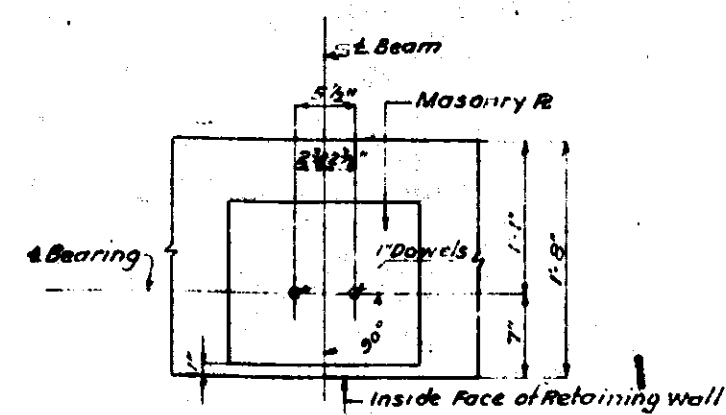
ELEVATION A-A



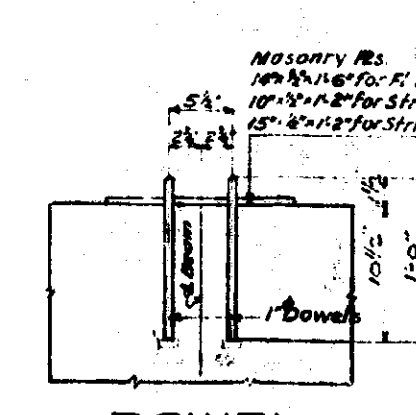
DETAIL OF WALL CONSTRUCTION AT CORNER



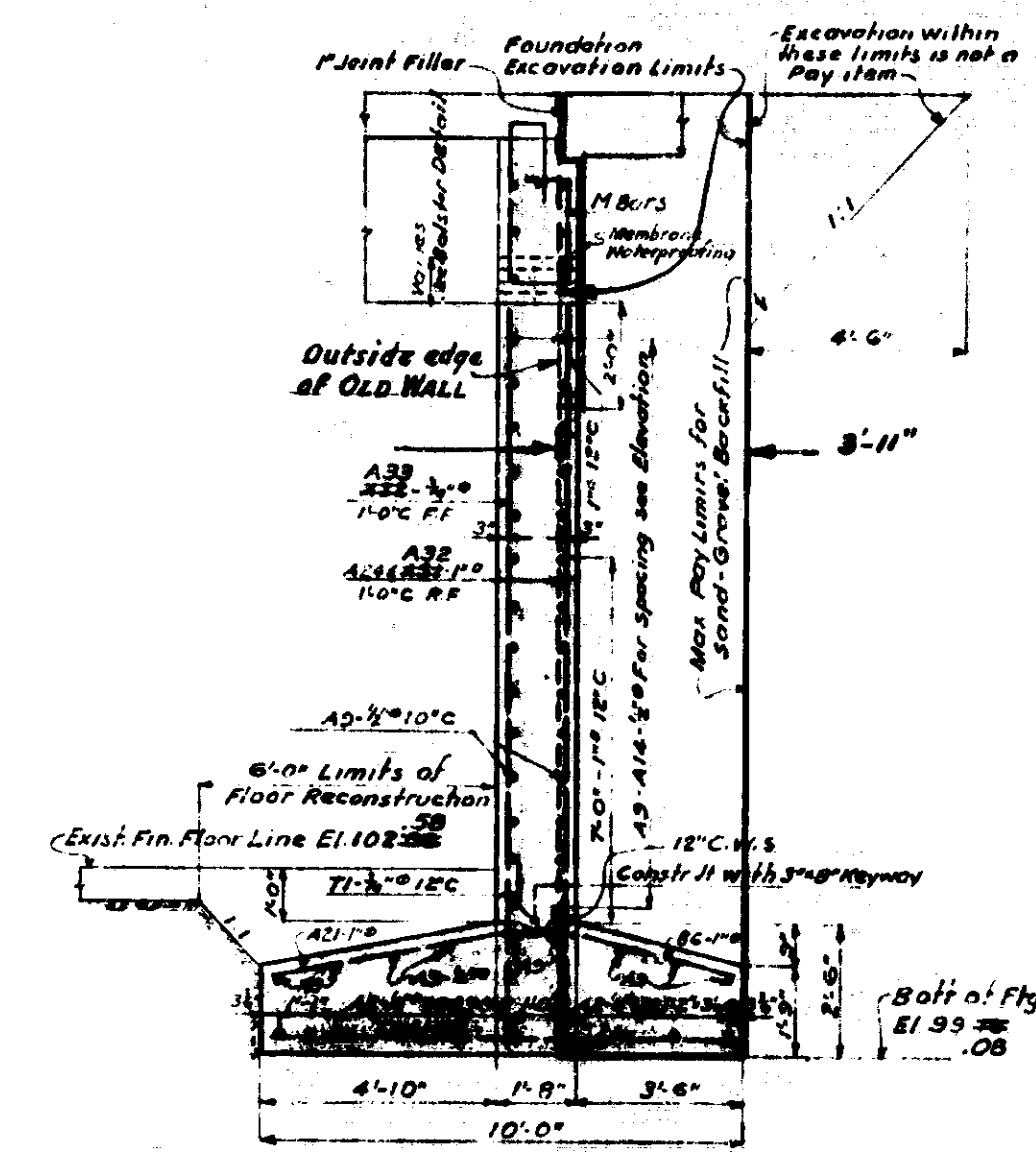
BOLSTER DETAIL



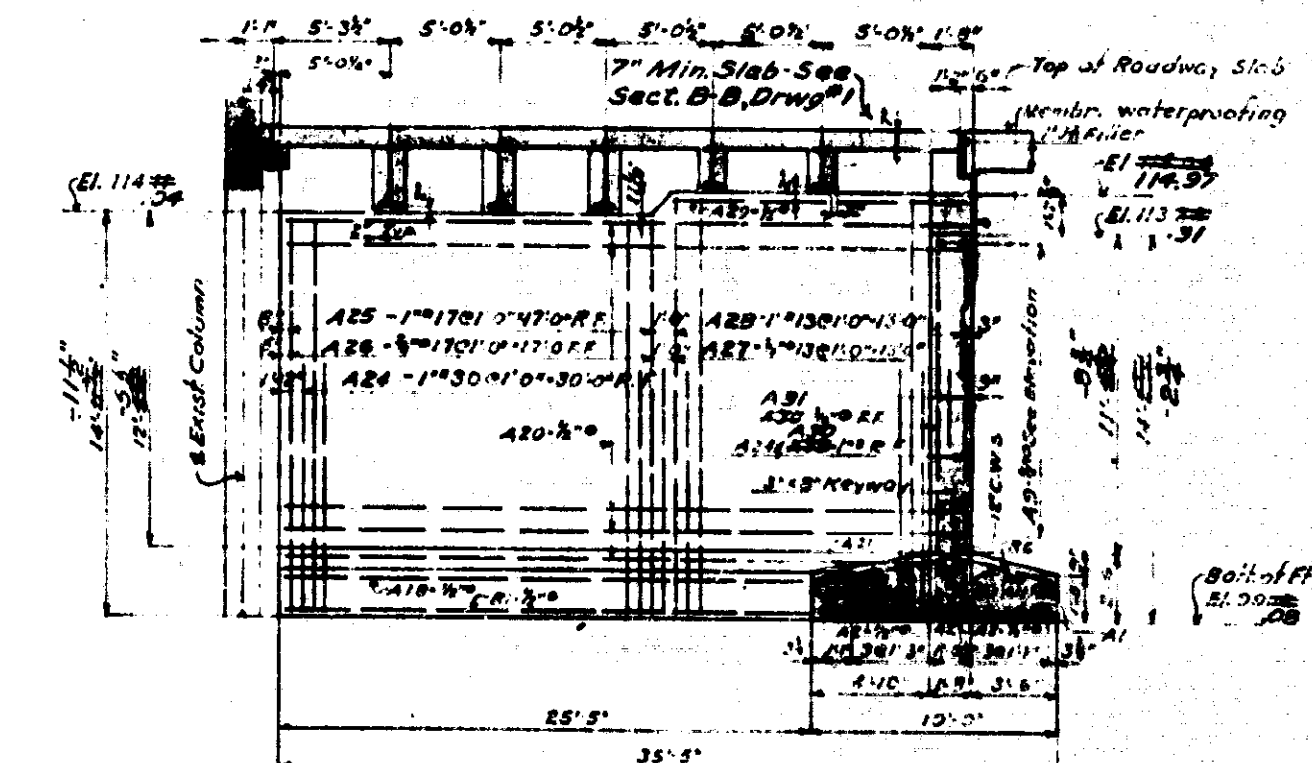
DOWEL SETTING DETAIL



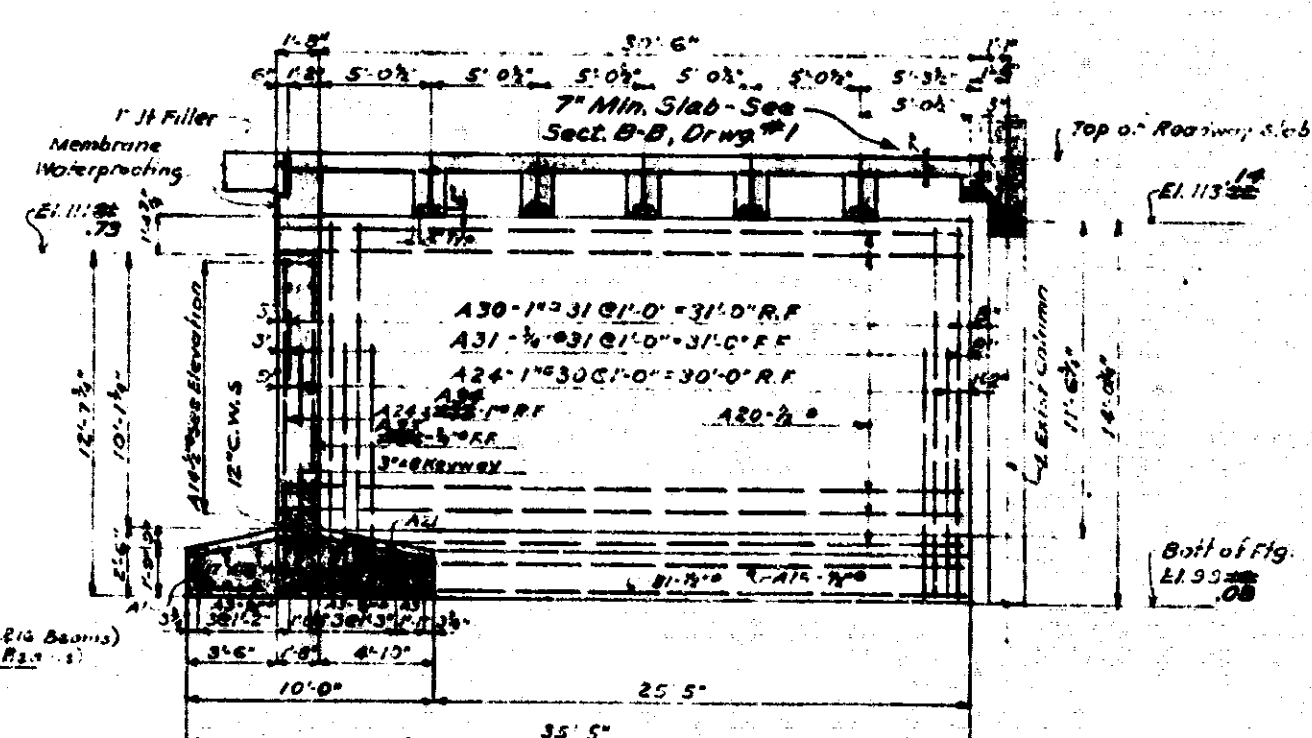
EMBEDMENT DETAIL



SECTION B-B



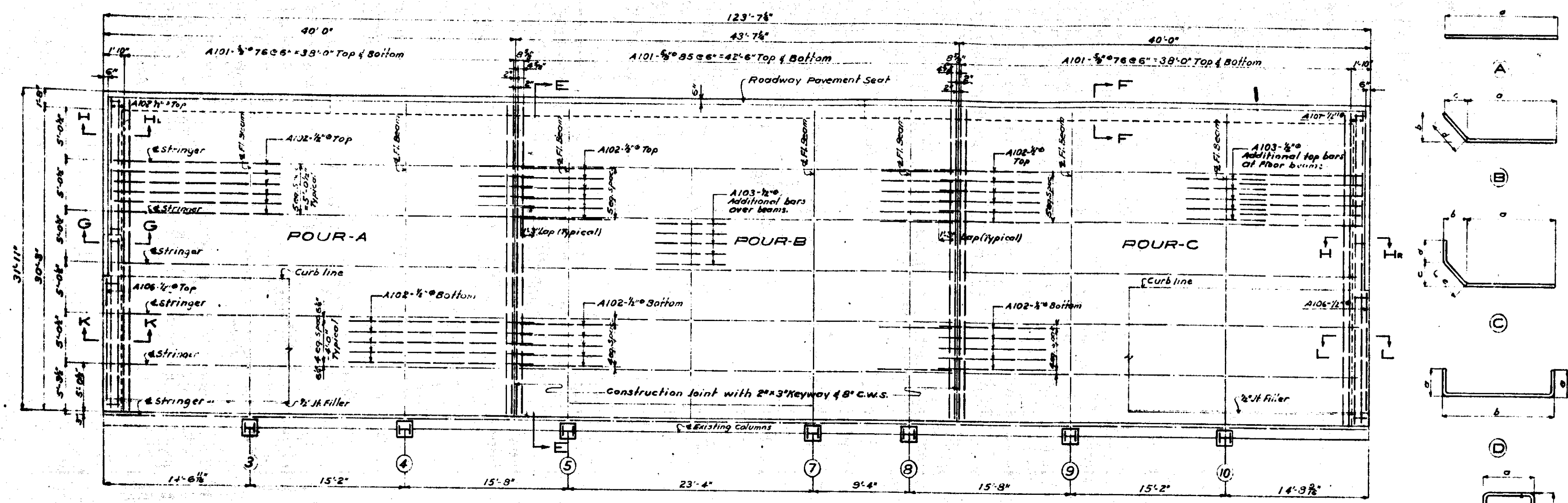
SECTION C-C



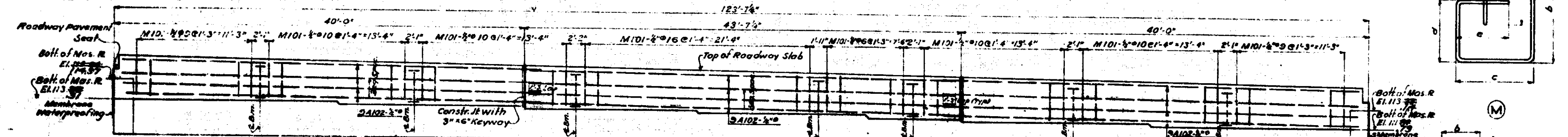
SECTION D-D

Note: Work this sheet with sheets #24 & #25.
 P. 2 shows front face.
 P. 2 shows back face.
 P. 2 shows side face.

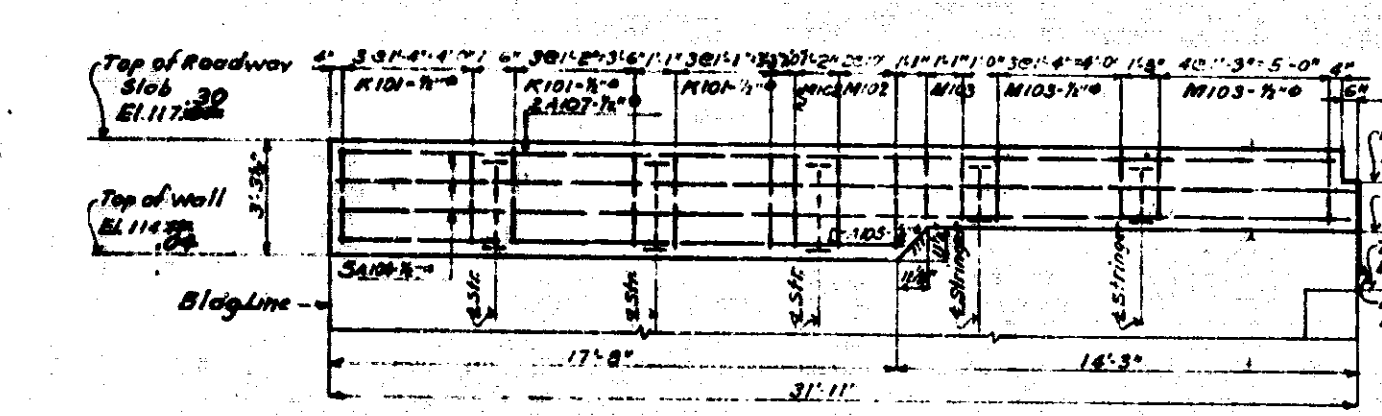
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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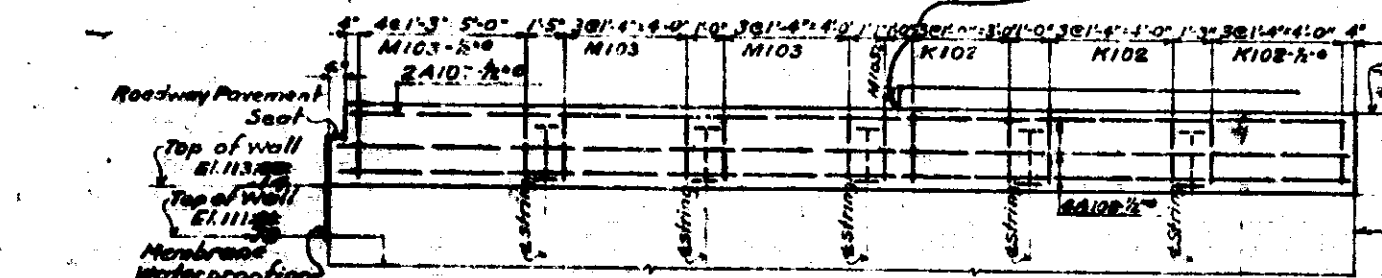
PLAN OF ROADWAY SLAB



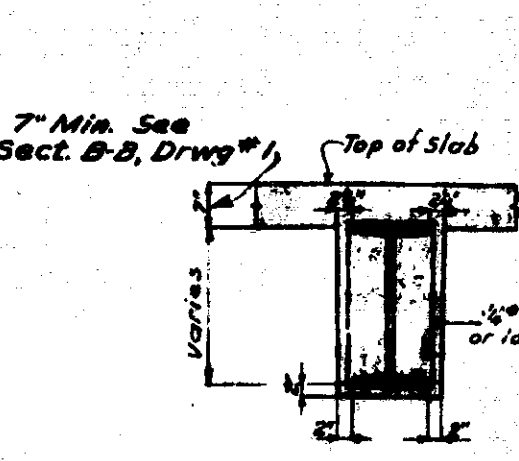
BACKWALL DETAILS VIEW A-A



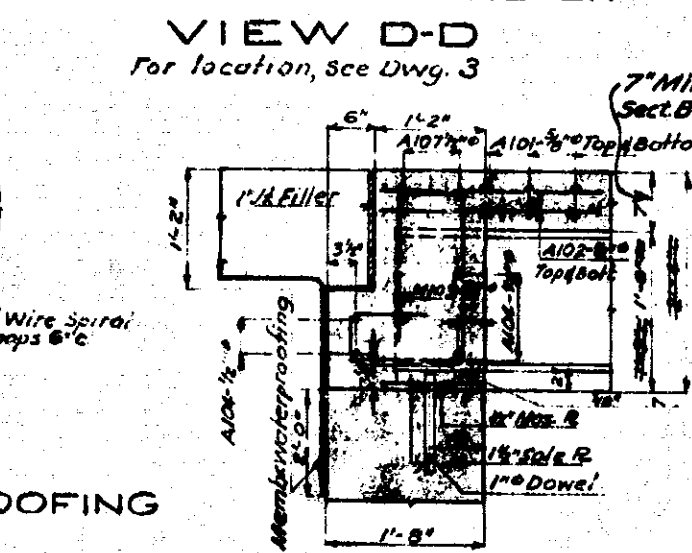
VIEW C-C



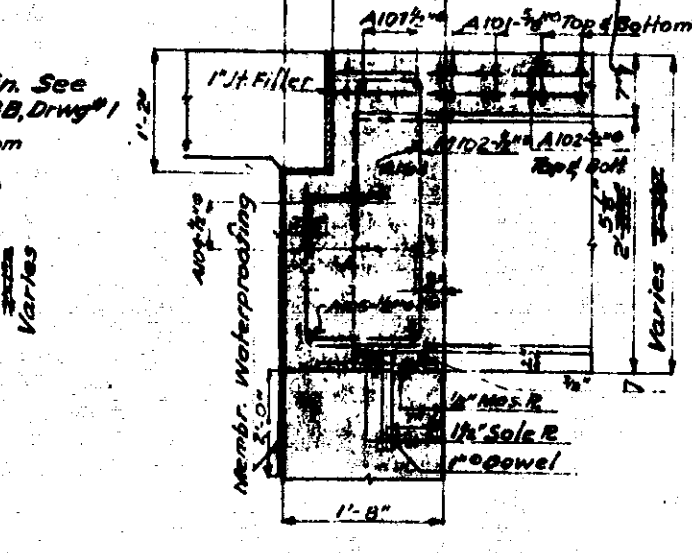
BACKWALL DETAILS SHOWING STEEL REINFORCEMENT VIEW D-D



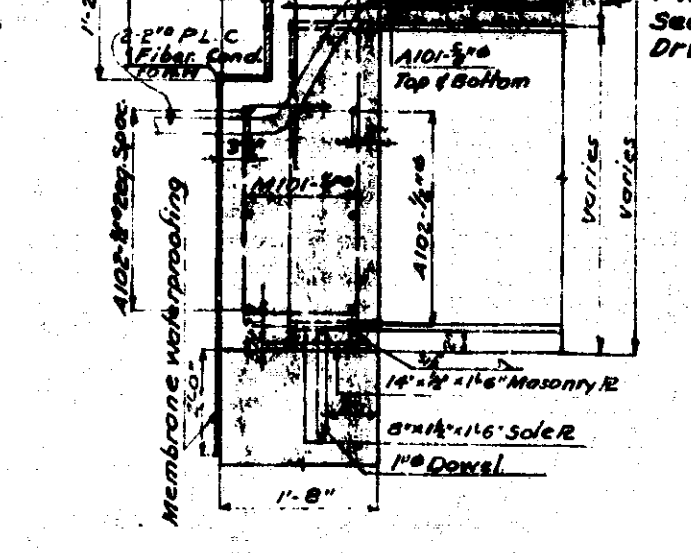
TYPICAL FIREPROOFING DETAIL



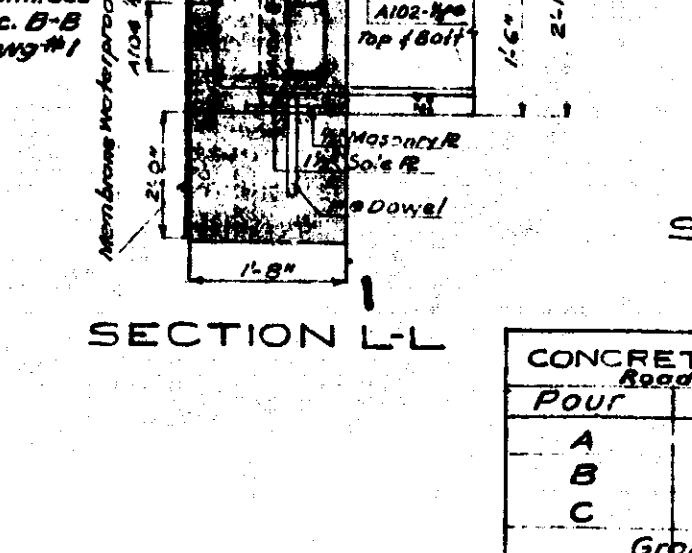
SECTION H-H



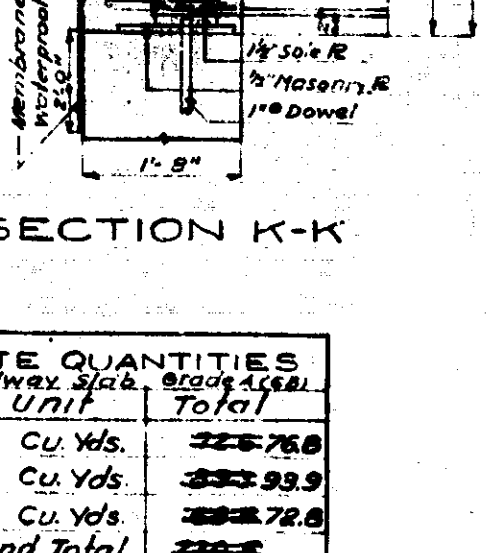
SECTION G-G



SECTION F-F



SECTION L-L

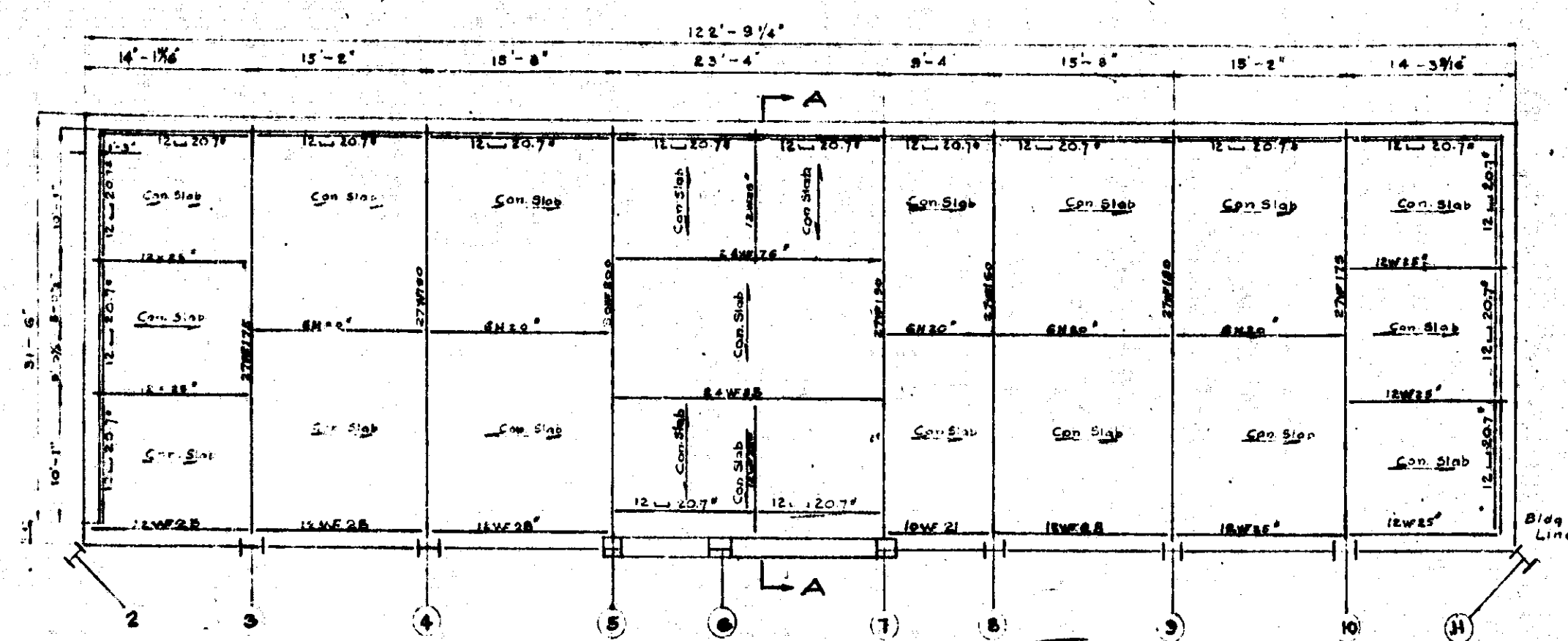


SECTION K-K

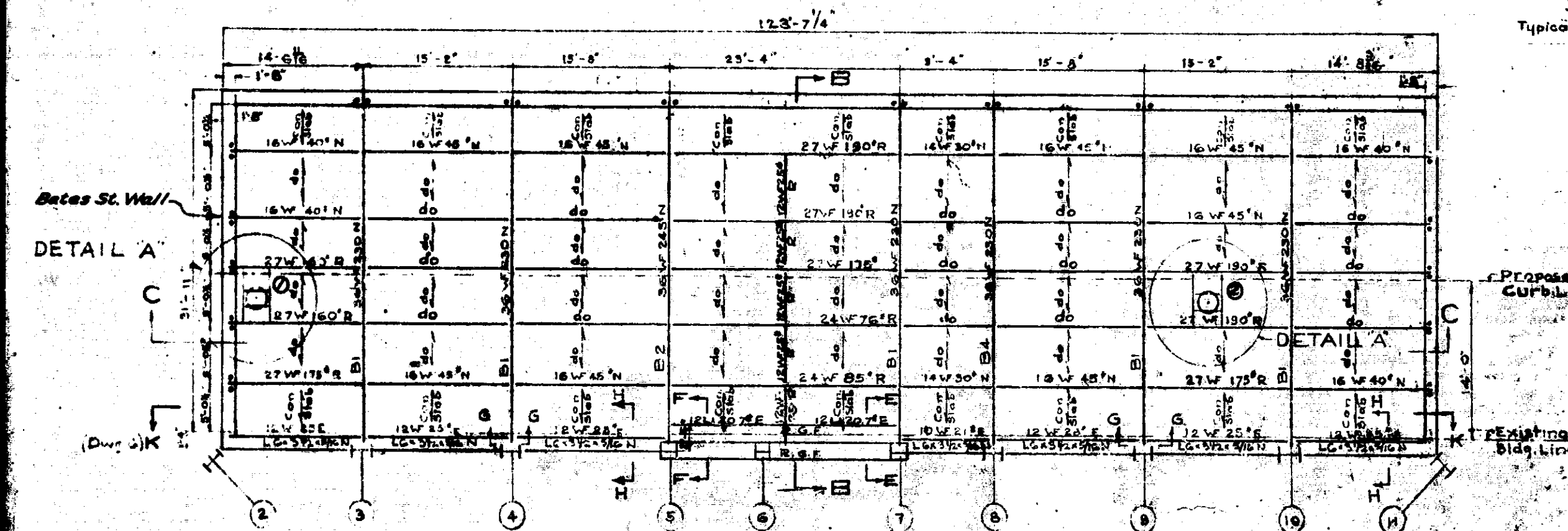
CONCRETE QUANTITIES			
POUR	Cu Yds.	Sq. Yds.	Yds.
A	255.78		
B	333.99		
C	333.78		
Grand Total	923.55		

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQD.	TOTAL WT.
	a	b	c	d	e	f	g				
A1	9'-8"							#4	9'-8"	205	5291
A2	46'-0"							#4	46'-0"	19	594
A3	40'-9"							#4	40'-9"	9	245
A4	33'-6"							#4	33'-6"	2	45
A5	33'-6"							#4	33'-6"	4	89
A6	35'-1"							#4	35'-1"	8	187
A7	38'-6"							#4	38'-6"	2	51
A8	41'-3"							#4	41'-3"	2	55
A9	41'-3"							#4	41'-3"	63	1743
A10	41'-3"							#4	41'-3"	1	30
A11	45'-9"							#4	45'-9"	1	31
A12	33'-9"							#4	33'-9"	2	45
A13	36'-3"							#4	36'-3"	2	48
A14	37'-2"							#4	37'-2"	26	645
A15	39'-3"							#4	39'-3"	1	26
A16	40'-6"							#4	40'-6"	1	27
A17	41'-9"							#4	41'-9"	1	29
A18	23'-0"							#4	23'-0"	4	67
A19	23'-0"							#4	23'-0"	4	78
A20	31'-7"							#4	31'-7"	33	636
A21	5'-3"							#4	5'-3"	221	3099
A22	4'-6"							#4	4'-6"	2	24
A23	3'-6"							#4	3'-6"	2	19
A24	9'-4"							#4	9'-4"	179	5648
A25	14'-8"							#4	14'-8"	18	397
A26	14'-8"							#4	14'-8"	18	397
A27	15'-7"							#4	15'-7"	14	329
A28	15'-7"							#4	15'-7"	14	342
A29	13'-0"							#4	13'-0"	2	17
A30	13'-9"							#4	13'-9"	70	3271
A31	13'-9"							#4	13'-9"	70	1443
A32	12'-10"							#4	12'-10"	43	1876
A33	12'-10"							#4	12'-10"	43	829
A34	12'-5"							#4	12'-5"	38	1604
A35	12'-5"							#4	12'-5"	38	709
A36	8'-3"							#4	8'-3"	2	44
A37	5'-0"							#4	5'-0"	2	31
A38	3'-9"							#4	3'-9"	2	20
A39	17'-4"							#4	17'-4"	2	23
A40	16'-8"							#4	16'-8"	2	22
A41	18'-10"							#4	18'-10"	2	25
A42	21'-10"							#4	21'-10"	2	29
A43	1'-0"							#4	1'-0"	25	25
Total for Footing and Retaining Wall											36850
Total for Roadway Slab											27080
Grand Total											63930

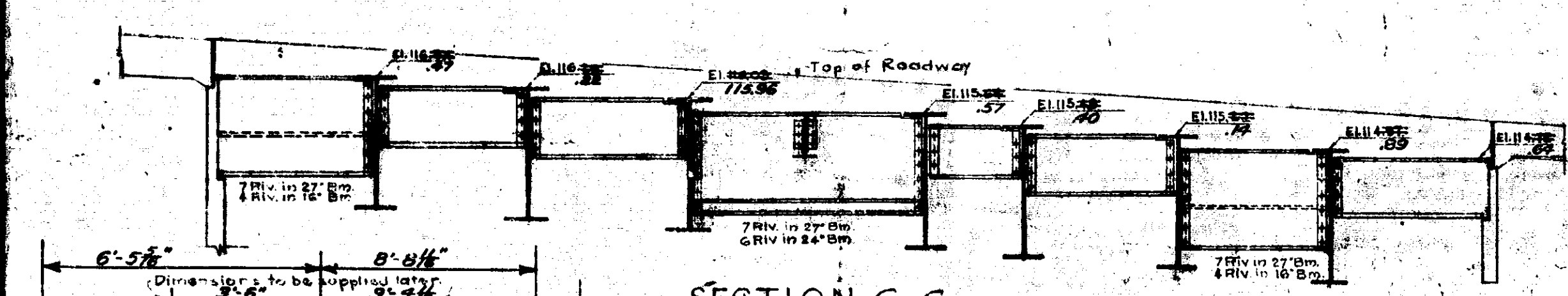
NOTED BY	DATE	REFERENCE DWGS	DRAWN BY	DATE	APPROVED	DATE
					Consulting Engineer	
			TRACED BY			
			CHECKED BY			
DESCRIPTION			RANDOLPH STREET WIDENING-CITY OF DETROIT ALTERATION TO WATER BOARD BLDG. PARKING GARAGE ROADWAY SLAB DETAILS			
REVISIONS			SCALE AS SHOWN			
DATE			DATE			
SHEET NO.			SHEET NO.			
PROJECT NO.			PROJECT NO.			
CITY OF DETROIT			CITY OF DETROIT			
DEPARTMENT OF WATER SUPPLY			DEPARTMENT OF WATER SUPPLY			
DIVISION OF ENGINEERING			DIVISION OF ENGINEERING			
STEVEN ANTONOFF & ASSOCIATES			STEVEN ANTONOFF & ASSOCIATES			
DETROIT, MICH.			DETROIT, MICH.			
Project 82-141			Project 82-141			
DWG. 5-B			DWG. 5-B			



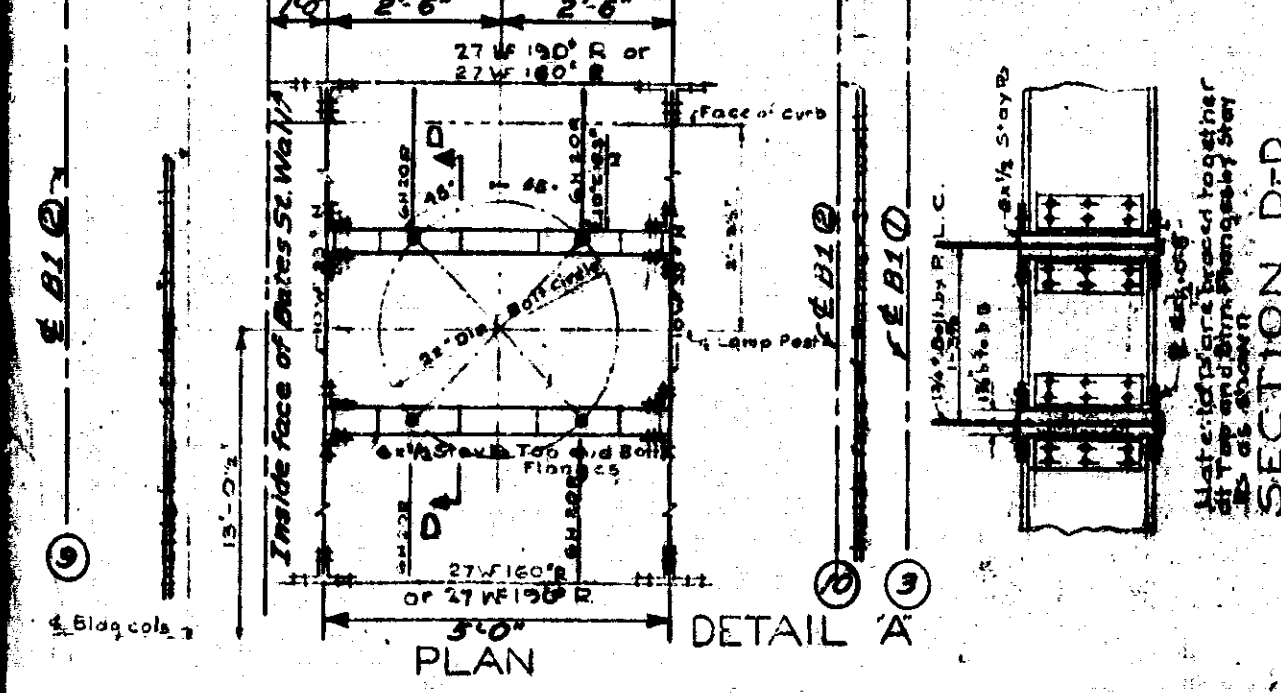
PLAN OF FRAMING BEFORE RECONSTRUCTION



PLAN OF FRAMING AFTER RECONSTRUCTION

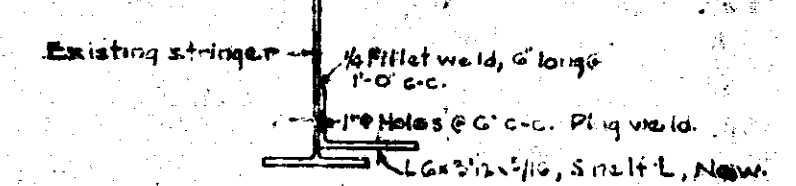


SECTION C-C

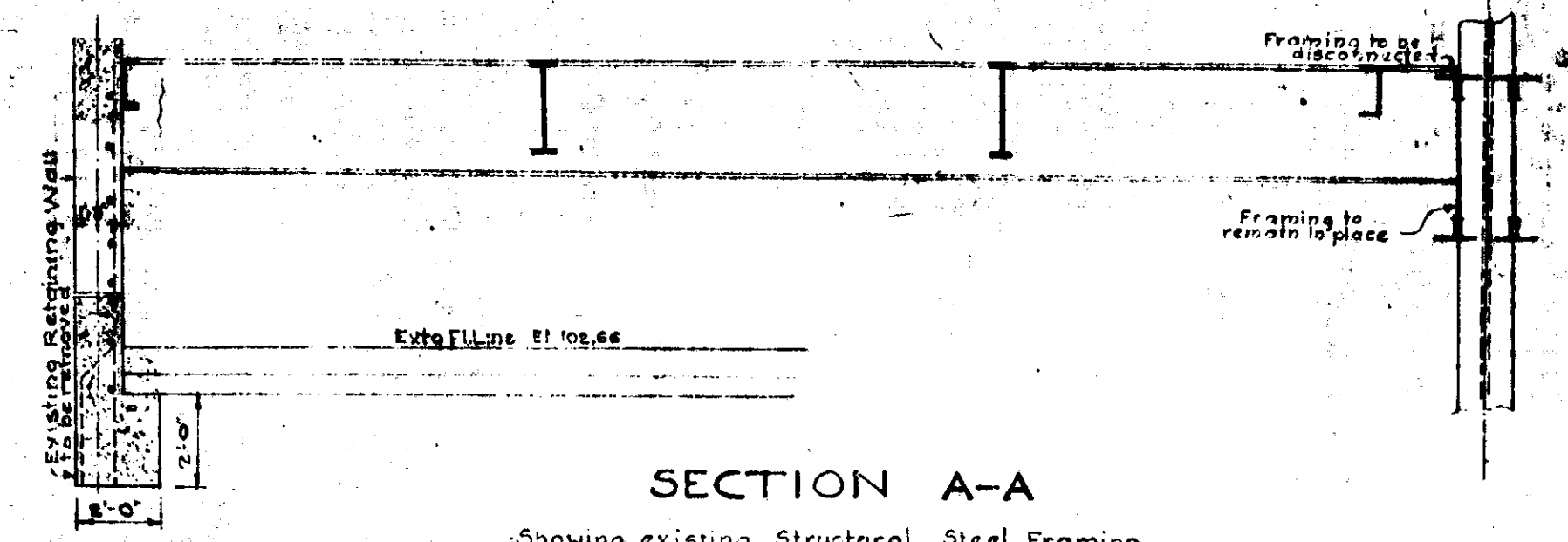


SECTION D-D

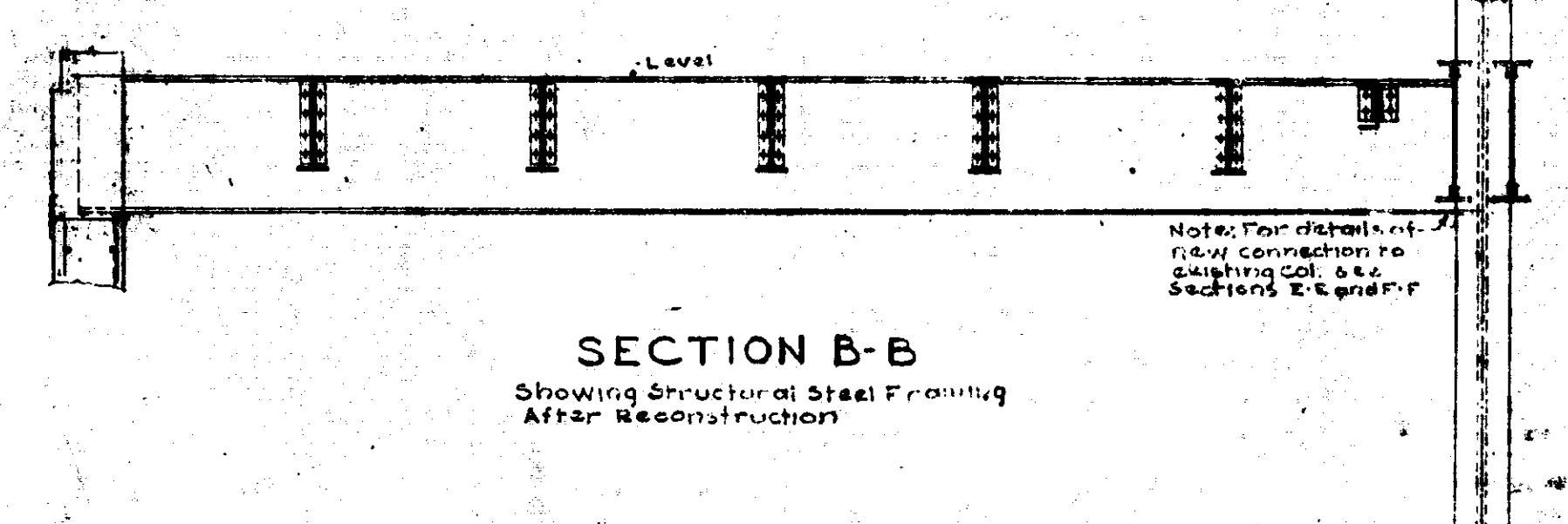
TYPICAL DETAIL for Connection of 36" W Beams to Columns



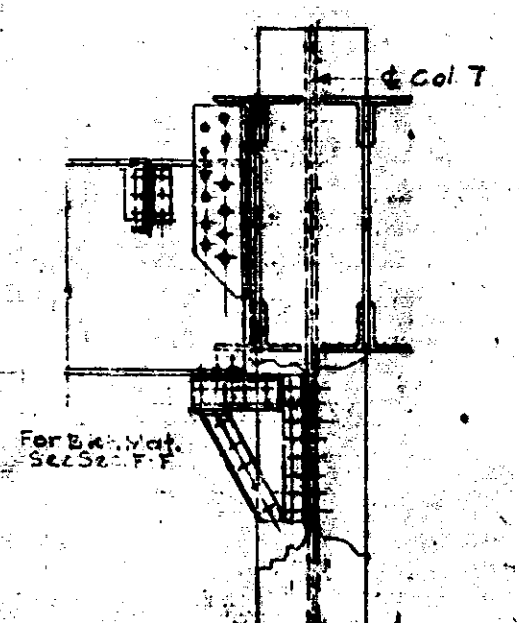
SECTION H-H
Typical between Cols. 2, 3, 4, 5, 7, 8, 9, 10 & 11



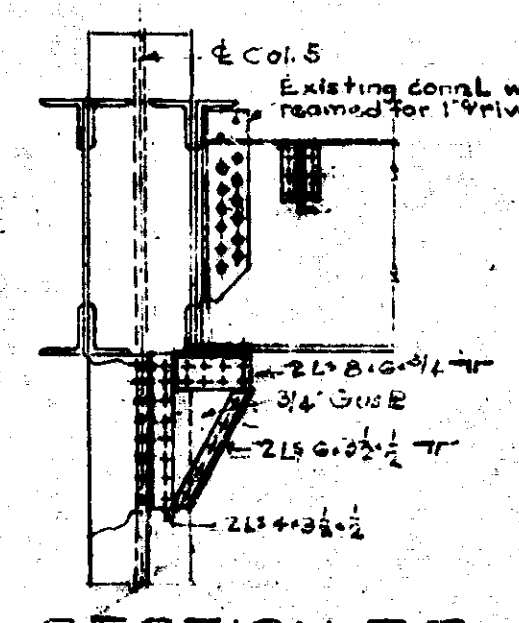
SECTION A-A
Showing existing Structural Steel Framing Before Reconstruction



SECTION B-B
Showing existing Structural Steel Framing After Reconstruction



SECTION E-E



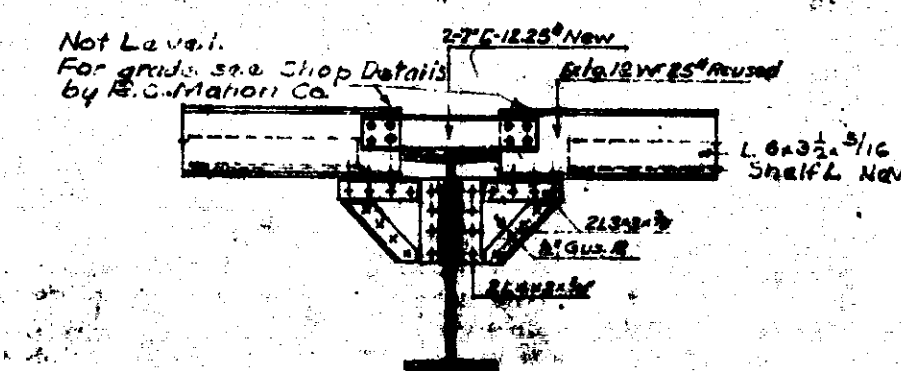
SECTION F-F

STRUCTURAL STEEL QUANTITIES:

Existing Structural Steel (Remain)	53,210 Lbs.
Existing Structural Steel Salvaged And Not Reused	17,350 Lbs.
Existing Structural Steel Salvaged And Reused	55,560 Lbs.
New Structural Steel Fabricated And Erected	55,560 Lbs.

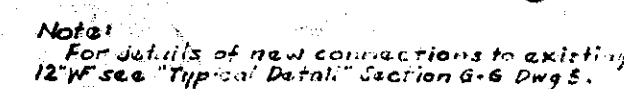
GENERAL NOTES:

- Except where otherwise indicated on these Plans or in the Proposal and Supplemental Specifications contained herein, all materials and workmanship shall be in accordance with the Michigan State Highway Department's Standard Specifications for Road and Bridge Construction, 1971 Edition.
- The design of this structure is based on the Michigan State Highway Department's Specifications for the Design of Highway Bridges, 1966 Edition (MS-516-44). Loading Live Load plus impact deflection and other special loads.
- Revised construction only shall be used on this project.
- Unless otherwise noted, all steel shall be A36.
- Indicates existing structural steel relocated and used in new locations.
- Indicates new material to be used in reconstruction.
- Indicates existing structural steel to be used in present position with new connections. For details of existing structural steel framing see Shop Drawings by R.C. Mahon Co.
- Aluminum shall be bonded sheet copper.



TYPICAL DETAIL for new connection of 36" W Beams to New Pile Beams

DESIGNED BY	CHIEF ENGINEER	DATE	10-1-61
DRAWN BY	STRUCTURAL ENGINEER	DATE	10-1-61
CHECKED BY	STRUCTURAL ENGINEER	DATE	10-1-61
APPROVED	CONSULTING ENGINEER	DATE	10-1-61
APPROVED	SUPV. & GENERAL MANAGER	DATE	10-1-61
ALTERNATION TO WATER BOND BLDG. PARKING GARAGE STRUCTURAL FRAMING PLAN & SECTIONS SCALE AS SHOWN DATE			
CITY OF DETROIT DEPARTMENT OF WATER SUPPLY DIVISION OF ENGINEERING STEVENS AND SONS & ASSOCIATES DETROIT MICH REVISED 10-1-61 55-C-5-B			



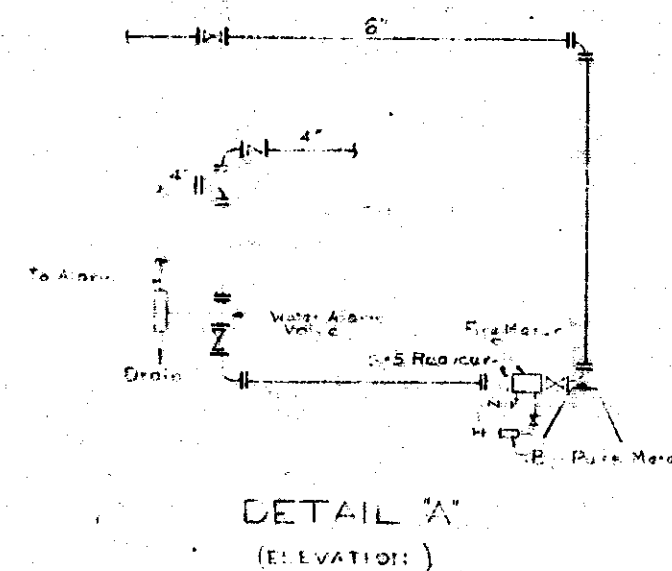
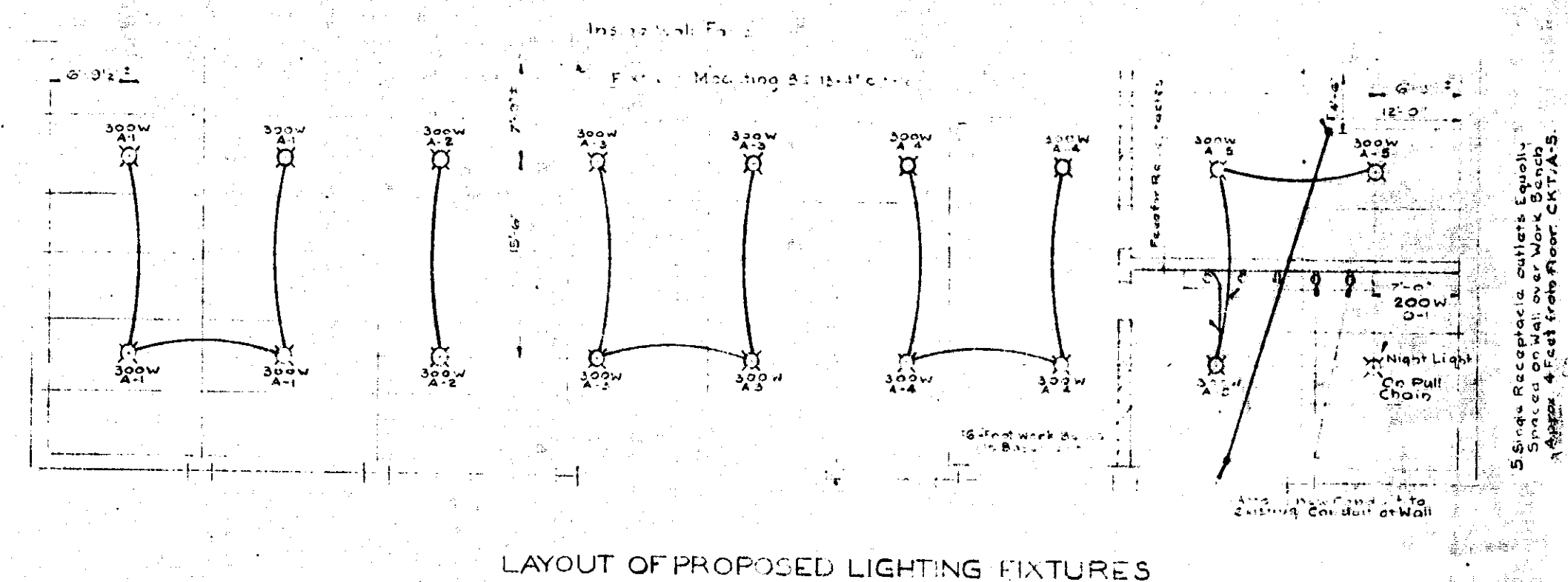
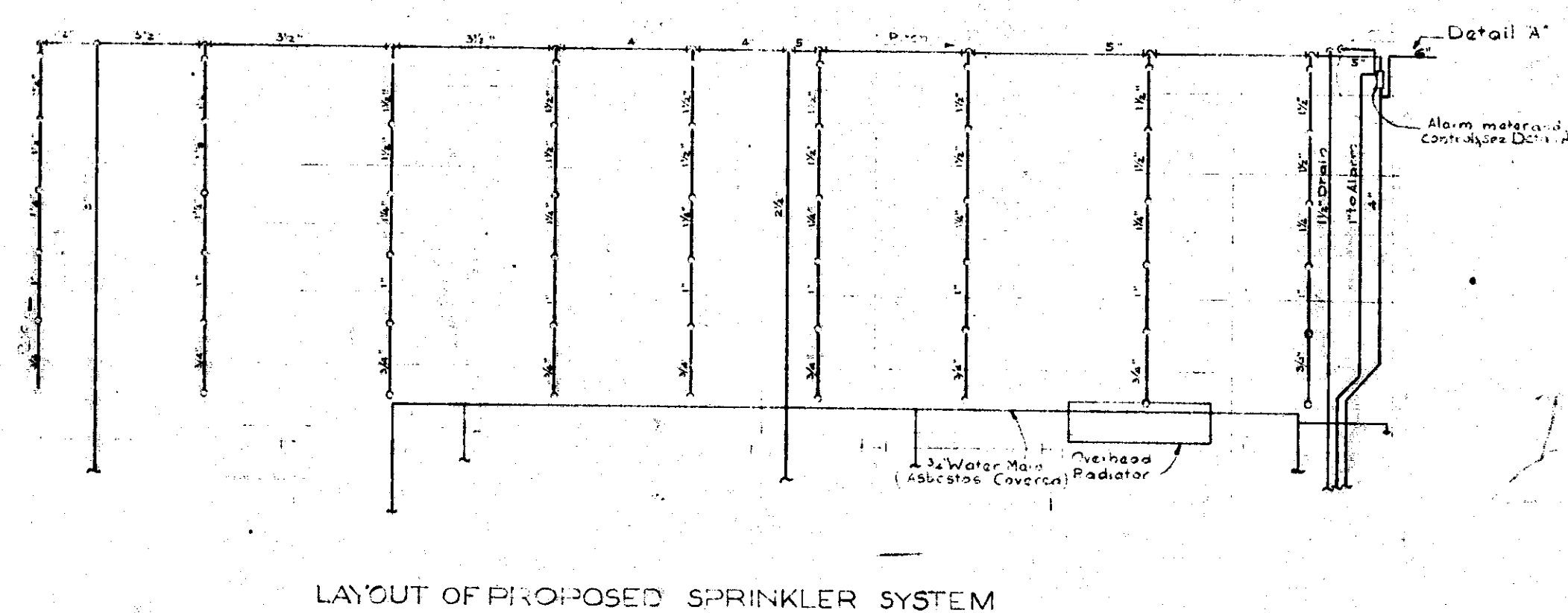
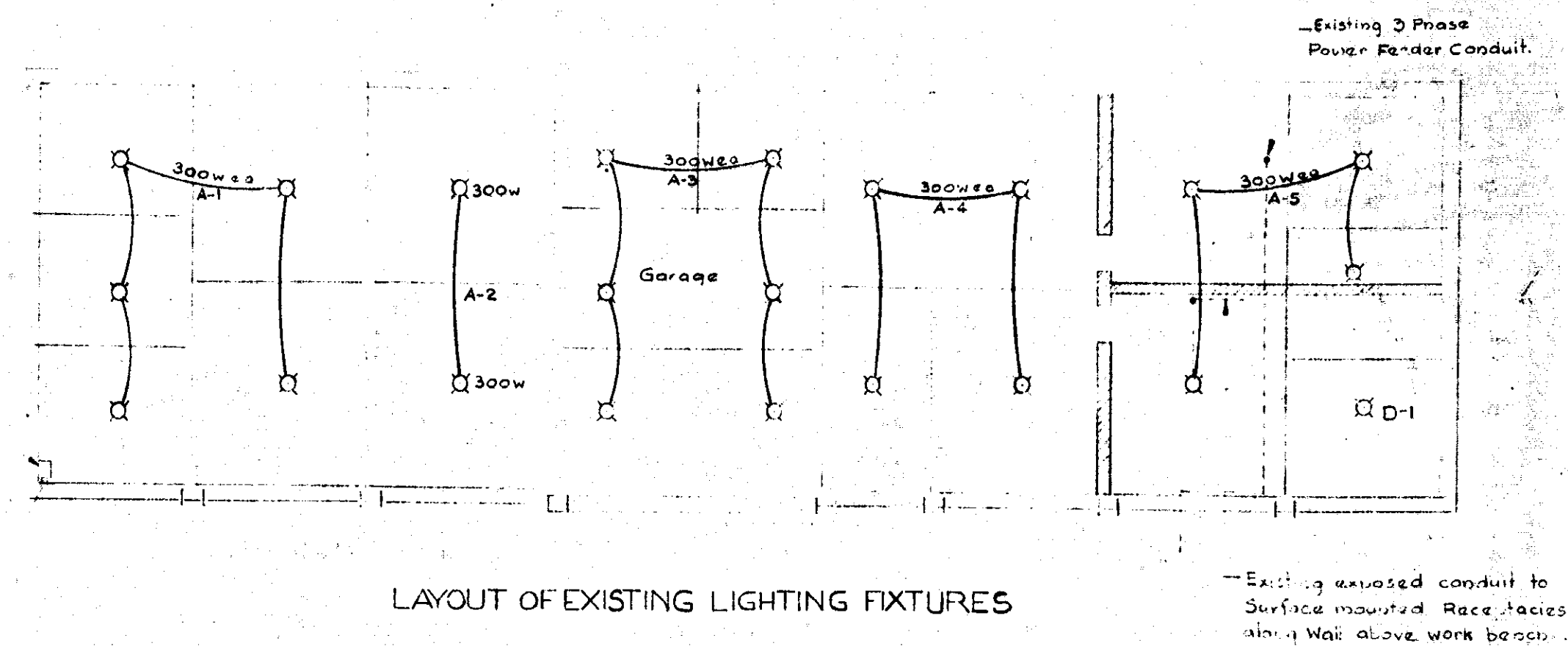
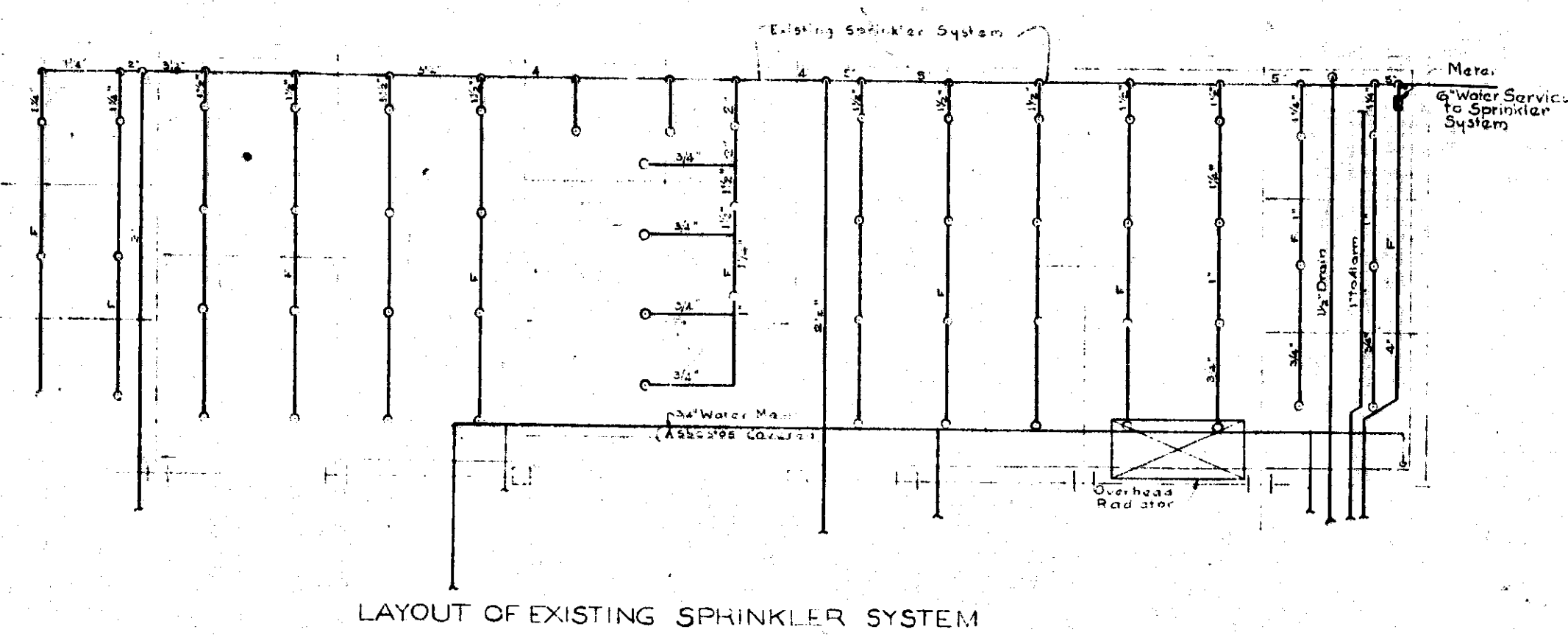
SECTION M-M
(Typical between Cols. 2-3, 3-4, 4-5, 7-8, 8-9, 9-10 & 10-11)

SECTION N-N
(Between Cols. 5 - 7)

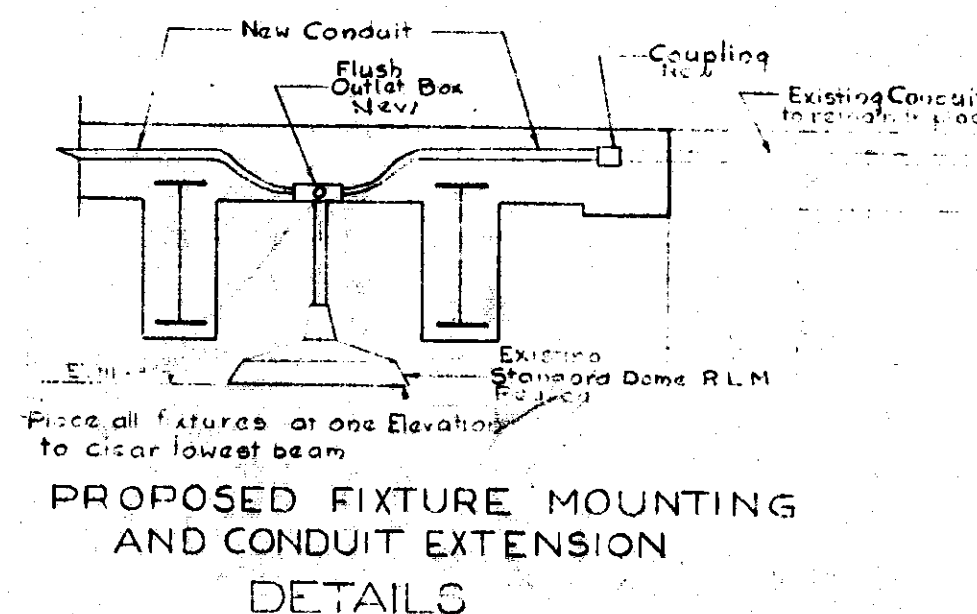
SECTION M-M
(Typical between Cols. 2-3, 3-4, 4-5, 7-8, 8-9, 9-10 & 10-11.)

SECTION N-N
(Between Cols 5 - 7)

NO. 1 DWG. 1 1/2" = 1'-0" 1/4" = 1'-0" 1/8" = 1'-0" 1/16" = 1'-0" 1/32" = 1'-0" 1/64" = 1'-0" 1/128" = 1'-0" 1/256" = 1'-0" 1/512" = 1'-0" 1/1024" = 1'-0" 1/2048" = 1'-0" 1/4096" = 1'-0" 1/8192" = 1'-0" 1/16384" = 1'-0" 1/32768" = 1'-0" 1/65536" = 1'-0" 1/131072" = 1'-0" 1/262144" = 1'-0" 1/524288" = 1'-0" 1/1048576" = 1'-0" 1/2097152" = 1'-0" 1/4194304" = 1'-0" 1/8388608" = 1'-0" 1/16777216" = 1'-0" 1/33554432" = 1'-0" 1/67108864" = 1'-0" 1/134217728" = 1'-0" 1/268435456" = 1'-0" 1/536870912" = 1'-0" 1/1073741824" = 1'-0" 1/2147483648" = 1'-0" 1/4294967296" = 1'-0" 1/8589934592" = 1'-0" 1/17179869184" = 1'-0" 1/34359738368" = 1'-0" 1/68719476736" = 1'-0" 1/137438953472" = 1'-0" 1/274877906944" = 1'-0" 1/549755813888" = 1'-0" 1/1099511627776" = 1'-0" 1/2199023255552" = 1'-0" 1/4398046511104" = 1'-0" 1/8796093022208" = 1'-0" 1/17592186044416" = 1'-0" 1/35184372088832" = 1'-0" 1/70368744177664" = 1'-0" 1/140737488355328" = 1'-0" 1/281474976710656" = 1'-0" 1/562949953421312" = 1'-0" 1/1125899906842624" = 1'-0" 1/2251799813685248" = 1'-0" 1/4503599627370496" = 1'-0" 1/9007199254740992" = 1'-0" 1/18014398509481984" = 1'-0" 1/36028797018963968" = 1'-0" 1/72057594037927936" = 1'-0" 1/144115188075855872" = 1'-0" 1/288230376151711744" = 1'-0" 1/576460752303423488" = 1'-0" 1/1152921504606846976" = 1'-0" 1/2305843009213693952" = 1'-0" 1/4611686018427387904" = 1'-0" 1/9223372036854775808" = 1'-0" 1/18446744073709551616" = 1'-0" 1/36893488147419103232" = 1'-0" 1/73786976294838206464" = 1'-0" 1/147573952589676412928" = 1'-0" 1/295147905179352825856" = 1'-0" 1/590295810358705651712" = 1'-0" 1/1180591620717411303424" = 1'-0" 1/2361183241434822606848" = 1'-0" 1/4722366482869645213696" = 1'-0" 1/9444732965739290427392" = 1'-0" 1/18889465931478580854784" = 1'-0" 1/37778931862957161709568" = 1'-0" 1/75557863725914323419136" = 1'-0" 1/151115727451828646838272" = 1'-0" 1/302231454903657293676544" = 1'-0" 1/604462909807314587353088" = 1'-0" 1/1208925819614629174706176" = 1'-0" 1/2417851639229258349412352" = 1'-0" 1/4835703278458516698824704" = 1'-0" 1/9671406556917033397649408" = 1'-0" 1/19342813113834066795298816" = 1'-0" 1/38685626227668133590597632" = 1'-0" 1/77371252455336267181195264" = 1'-0" 1/154742504910672534362390528" = 1'-0" 1/309485009821345068724781056" = 1'-0" 1/618970019642690137449562112" = 1'-0" 1/1237940039285380274899124224" = 1'-0" 1/2475880078570760549798248448" = 1'-0" 1/4951760157141521099596496896" = 1'-0" 1/9903520314283042199192993792" = 1'-0" 1/19807040628566084398385987584" = 1'-0" 1/39614081257132168796771975168" = 1'-0" 1/79228162514264337593543950336" = 1'-0" 1/158456325028528675187087900672" = 1'-0" 1/316912650057057350374175801344" = 1'-0" 1/633825300114114700748351602688" = 1'-0" 1/1267650600228229401496703205376" = 1'-0" 1/2535301200456458802993406410752" = 1'-0" 1/5070602400912917605986812821504" = 1'-0" 1/10141204801825835211973625643008" = 1'-0" 1/20282409603651670423947251286016" = 1'-0" 1/40564819207303340847894502572032" = 1'-0" 1/81129638414606681695789005144064" = 1'-0" 1/162259276829213363391578010288128" = 1'-0" 1/324518553658426726783156020576256" = 1'-0" 1/649037107316853453566312041152512" = 1'-0" 1/1298074214633706907132624082305024" = 1'-0" 1/2596148429267413814265248164610048" = 1'-0" 1/5192296858534827628530496329220096" = 1'-0" 1/10384593717069655257060992658440192" = 1'-0" 1/20769187434139310514121985316880384" = 1'-0" 1/41538374868278621028243970633760768" = 1'-0" 1/83076749736557242056487941267521536" = 1'-0" 1/166153499473114484112975882535043072" = 1'-0" 1/332306998946228968225951765070086144" = 1'-0" 1/664613997892457936451903530140172288" = 1'-0" 1/1329227995784915872903807060280344576" = 1'-0" 1/2658455991569831745807614120560689152" = 1'-0" 1/5316911983139663491615228241121378304" = 1'-0" 1/10633823966279326983230456482242	REFERENCE DWG'S	DRAWN BY	APPROVED	RANDOLPH STREET WIDENING-CITY OF DETROIT ALTERATION TO WATER BOARD BLDG. PARKING GARAGE MISCELLANEOUS STRUCTURAL DETAILS SCALE AS SHOWN DATE	CITY OF DETROIT DEPARTMENT OF WATER SUPPLY DIVISION OF ENGINEERING STEVEN ANTONOFF & ASSOCIATES DETROIT MICH.	Project Base/1 DWG. 6 C-55-C-5-B
	TRACED BY	Consulting Engineer				
	CHECKED BY					
DESCRIPTION			SUPT. & GENERAL MANAGER			



Note: Reconnect system to existing Detroit Fire Department Siemase connection.

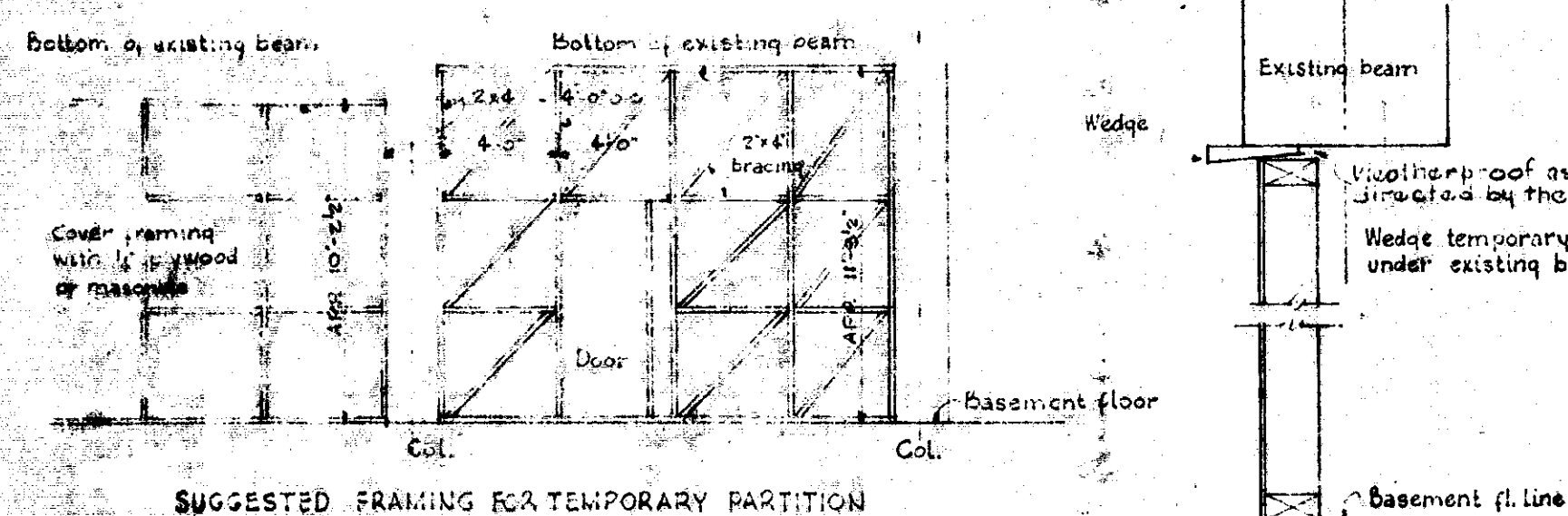
[illegible][illegible]



Note: Existing Sewer Lines to be maintained in service during the entire period of construction operations.



Notes:
Existing Drainage System is shown on Basement Plan.
After Reconstruction appears to be outside of reconstruction limits except at certain locations as shown. However, any portion of the floor drain system, if found within the reconstruction limits, shall be installed as directed by the Engineer.



NOTED										DRAWN BY										APPROVED										CITY OF DETROIT										Project 52-141																			
										TRACED BY										Consulting Engineer										RANDOLPH STREET WIDENING, CITY OF DETROIT										DEPARTMENT OF WATER SUPPLY										DWG. 5									
										CHECKED BY																				ALTERATION TO WATER BOARD BUILDING GARAGE										DIVISION OF ENGINEERING										L-55-C-5-B									
																														DRAINAGE LAYOUT AND TEMPORARY																													
																														PARTITION DETAILS																													
DESCRIPTION										DATE										Supt. & General Manager										SCALE AS SHOWN										DATE										STEVEN ANTONOFF & ASSOCIATES DETROIT MICH									

QUANTITY SHEET - E

STATE	PR. J. NO.	FEEL. YEAR	SHEET NO.	TOTAL SHEETS
ROUTE	MICH.	QUANTITY	TWP.	SHEET NO.
82-141	WAYNE			

AS PER PLANS				AS CONSTRUCTED			
Item	Quant.	Unit		Item	Quant.	Unit	
Removing exist. structure (inc. retaining wall, partition wall, roof slab etc. exc. Structural Steel)	Lump Sum			Removing exist. structure (inc. retaining wall, partition wall, roof slab etc. exc. Structural Steel)	Lump Sum		
Temporary partition wall	Lump Sum			Temporary partition wall	Lump Sum		
Unclassified excavation	450	cyds.		Unclassified excavation	506.5	cyds.	Reco. No. 1-2 Chg. No. 1
Sand-gravel backfill (L.M.)	500	cyds.		Sand-gravel backfill (L.M.)	500	cyds.	
Conc. grade A (6A) conc. retaining wall fittings	147	cyds.		Conc. grade A (6A) conc. retaining wall fittings	154.5	cyds.	Reco. No. 2-3 Chg. No. 2
Concrete grade A (6B) retaining wall	129.4	cyds.		Concrete grade A (6B) retaining wall	134.5	cyds.	Reco. No. 3-4 Chg. No. 3
Concrete grade A (6B) concrete roof slab	230.5	cyds.		Concrete grade A (6B) concrete roof slab	263.5	cyds.	Reco. No. 4-5 Chg. No. 4
Concrete grade X concrete basement slab	51.0	cyds.		Concrete grade X concrete basement slab	50	cyds.	Reco. No. 5-6 Chg. No. 5
Existing structural steel removed	53210	lbs.		Existing structural steel removed	53125	lbs.	Reco. No. 6-7 Chg. No. 6
Salvaged structural steel (fabric. & erected)	35960	lbs.		Salvaged structural steel (fabric. & erected)	33128	lbs.	Reco. No. 7-8 Chg. No. 7
New structural steel (fabricated & erected)	79860	lbs.		New structural steel (fabricated & erected)	77331	lbs.	Reco. No. 8-9 Chg. No. 8
Steel reinforcement	63930	lbs.		Steel reinforcement	63930	lbs.	Reco. No. 9-10 Chg. No. 9
6" Perforated sewer pipe (inc. backflow check valve)	220	lft.		6" Perforated sewer pipe (inc. backflow check valve)	200	lft.	Reco. No. 11-12 Chg. No. 10
1" Joint Filler	189	sft.		1" Joint Filler	0	sft.	Reco. No. 13-14 Chg. No. 11
1/2" Joint Filler	88	sft.		1/2" Joint Filler	62	sft.	Reco. No. 15-16 Chg. No. 12
Dampproofing	1770	sft.		Dampproofing	1757	sft.	Reco. No. 17-18 Chg. No. 13
Membrane waterproofing	2370	sft.		Membrane waterproofing	2743	sft.	Reco. No. 19-20 Chg. No. 14
2" Fiber conduit	150	lft.		2" Fiber conduit	104	lft.	Reco. No. 21-22 Chg. No. 15
Reconstructing sprinkler system	Lump Sum			Reconstructing sprinkler system	Lump Sum		
Electrical work (reconstructing of electrical power and lighting layout)	Lump Sum			Electrical work (reconstructing of electrical power and lighting layout)	Lump Sum		
Structural tile	2510	piece		Structural tile	2600	piece	Reco. No. 23-24 Chg. No. 16
1/4" Fireproofing wire	400	lbs.		1/4" Fireproofing wire	1972	lbs.	Reco. No. 25-26 Chg. No. 17
Wire mesh in reinforcement	700	lbs.		Wire mesh in reinforcement	0	lbs.	Reco. No. 27-28 Chg. No. 18
Copper	410	lbs.		Copper	410	lbs.	

History Posted on Plans by M. O'Donnell & P. S. Shury 9-1-75
W. B. K. Lundy 6/24/76

Randolph St. City Detroit
 M-82-141, COU.

FILE NO.	8-141	SHEET	9
DATE	8-141	TOTAL SHEETS	9