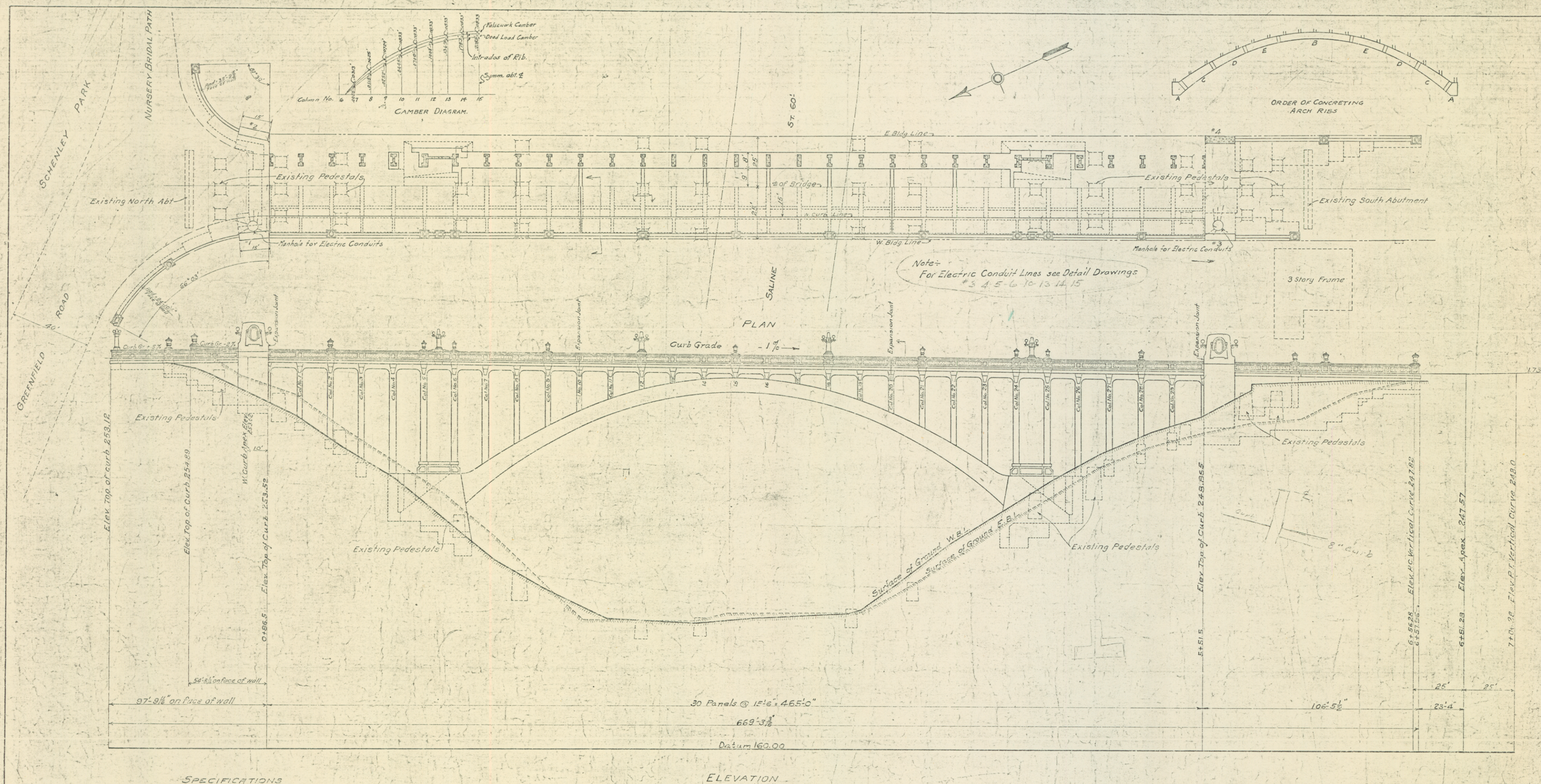




SPECIFICATIONS

All work under this contract shall be done in accordance with the "Standard Contract for the Construction of Bridges, Edition of September 1931 with Special reference to Part 5 of said contract, Standard Specifications for Concrete Bridges, and the following specifications.

Concrete in Arch Abutments and Column Footers shall be 1-2-5 mix. All other concrete shall be 1-2-4 mix.

All stone work shall be Indiana Buff Select Stock Limestone.

Contractor shall remove all Existing Abutments and Pedestals to a depth of 1 ft below finished ground surface.

The City reserves the right to eliminate Items 2, 3, 4, 5, 6, 7, 10, and 11 entirely.

The comparison of bids for this contract shall be upon the basis of the total of the price bid as a lump sum under Item No. 1, and the prices bid as Additions to the lump sum under Items No. 2 to 11 inclusive.

The same unit price shall be bid by the Contractor, under Items No. 23 and 6, for Additions to as for deductions from the lump sum called for in the lump sum bid.

The bidder shall state in his proposal the number of calendar days within which he will complete all work under this contract as the time for completion is of utmost importance in this contract, the number of days proposed by the bidder for completion will be given due consideration in the awarding of the contract.

ESTIMATE

- ① Lump sum for all work shown on Contract Plans F1036 to F1052 inclusive
- ② 500 Lbs. Additions for or Deductions from the Amount of Structural Steel Shown on Plans.
- ③ 5000 Lbs. Additions for or Deductions from the Amount of Reinforcement Shown on Plans.
- ④ 1 M.F. B.M. Sheeting and Bracing Left in Place on Written Order of Director.
- ⑤ 50 Cu. Yds. Additions for or Deductions from the Amount of 1-24 Concrete Shown on Plans Including Excavation.
- ⑥ 50 Cu. Yds. Additions for or Deductions from the Amount of 1-25-5 Concrete Shown on Plans Including Excavation.
- ⑦ 50 Cu. Yds. Additions to the Amount of Broken Stone Drain Shown on Plans.
- ⑧ 100 Cu. Yds. Additional Trench Excavation.
- ⑨ 160 Lin. Ft. 15" T.C. Pipe Sewer.
- ⑩ 10 Lin. Ft. 12" T.C. Pipe Sewer.
- ⑪ 1 Additional 15'x15' Connection.

BOND \$115,000⁰⁰

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

RECONSTRUCTING BRIDGE & APPROACHES

BECHWOOD ROAD BRIDGE

GENERAL PLAN & ELEVATION

CONTRACT NO 1 SHEET 1 OF 17

SCALES 1 20

SEPT 1921 CASE No 10 DRAWER No 10

CALC BY JC Guder.....NOTE BOOK 465-489
DRAWN BY JF Powell.....CHECKED BY H. Higdon
CORRECT BY C. Wherry.....CORRECT
DIV ENGR. J. Guder.....DIV ENGR-DESIGN

Drawing No. F-51.
Case No. B
Pocket No. 4
Folder No. 2

Nov. 7 21

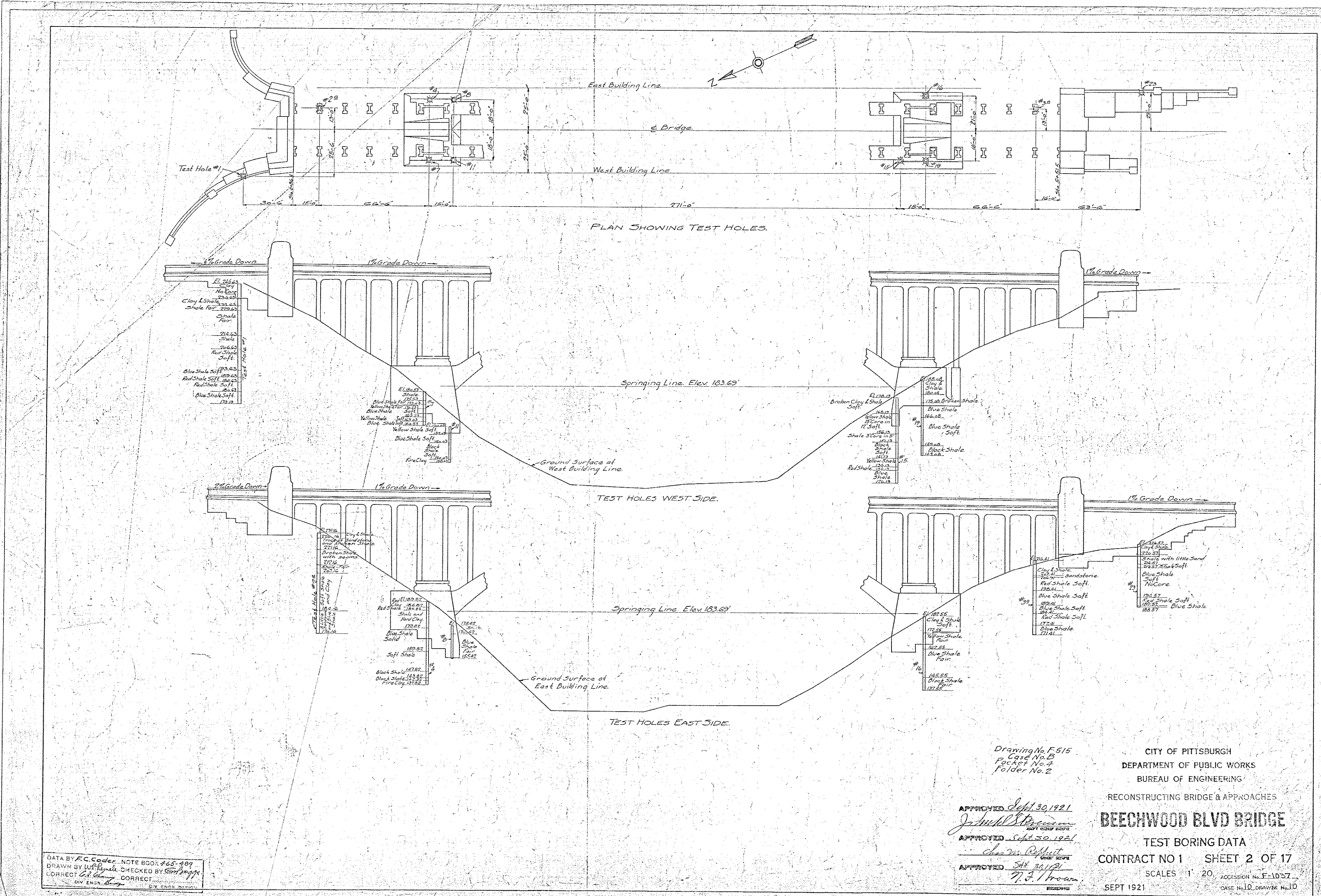
John W. De
George P. Rugg

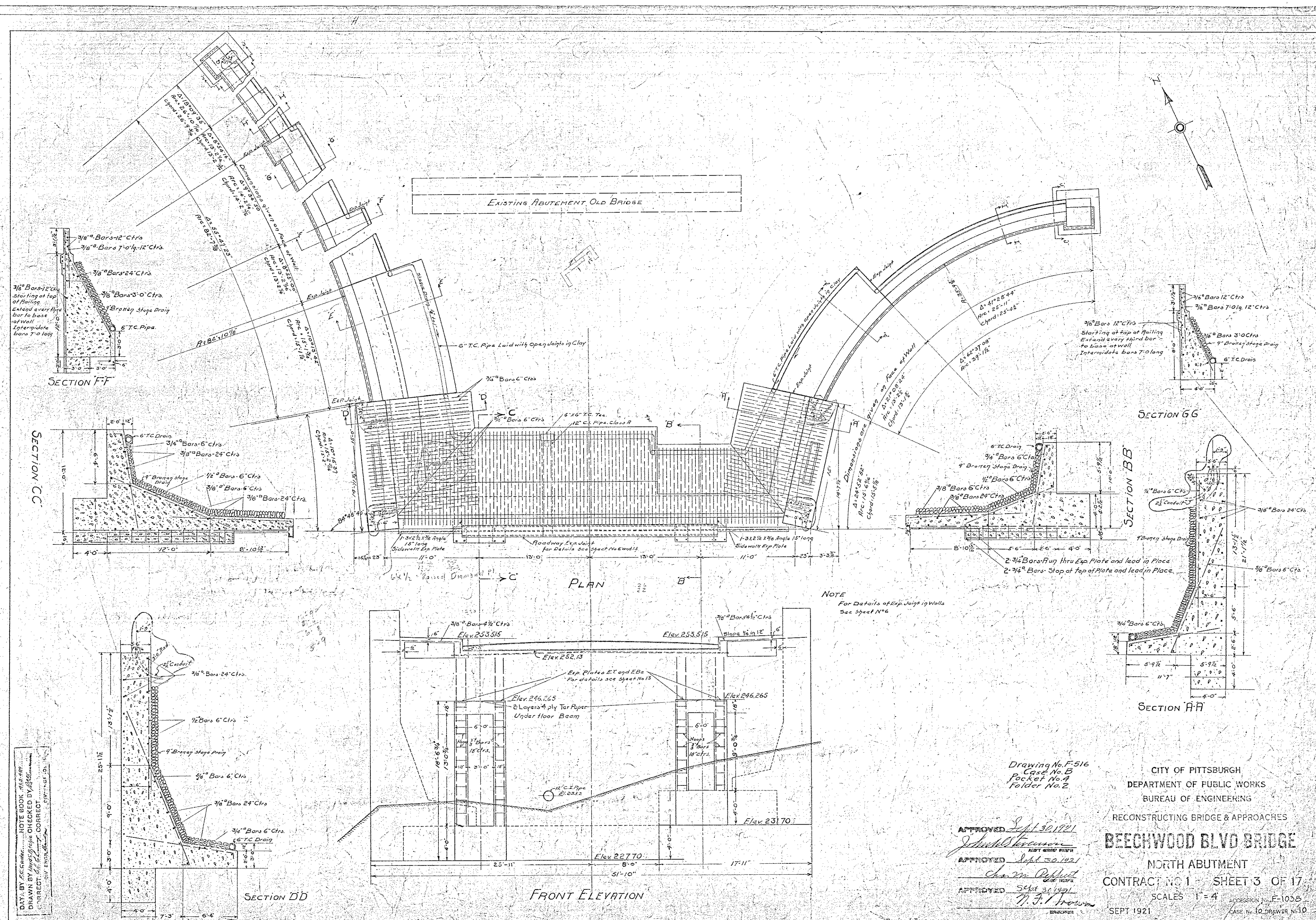
Sept 30, 1921

John W. Stevenson
APPROVED Sept 30, 1921

Chas M. Peckett
5143A/1231

Rev - 6-19-22
Rev. 3-22-2





Drawing No. F-517
 Case No. B
 Pocket No. 2
 Folder No. 2

CITY OF PITTSBURGH
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING

RECONSTRUCTING BRIDGE & APPROACHES

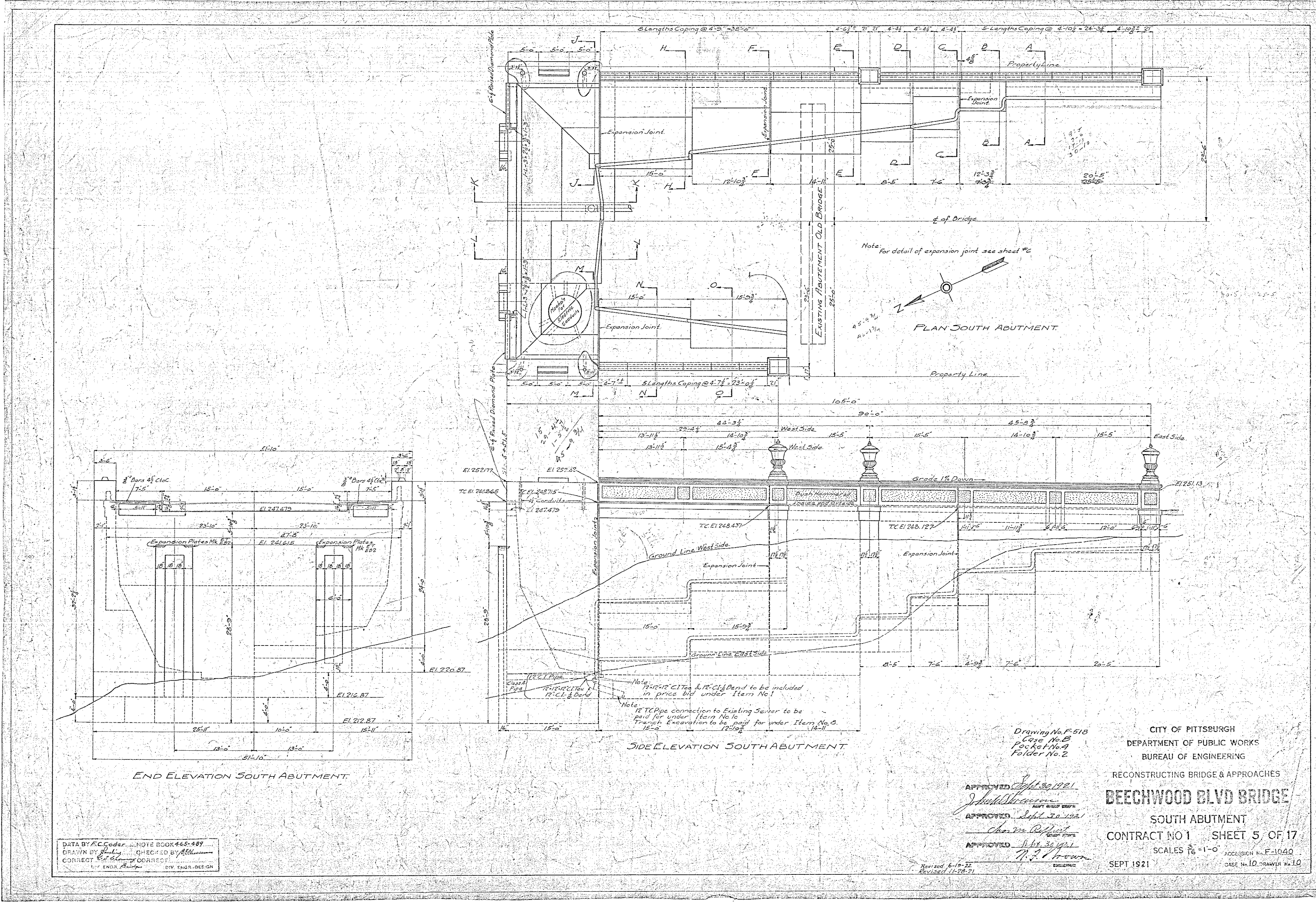
DATED Sept 30, 1921
 BY W. S. Brown
CHIEF CIVIL ENGINEER

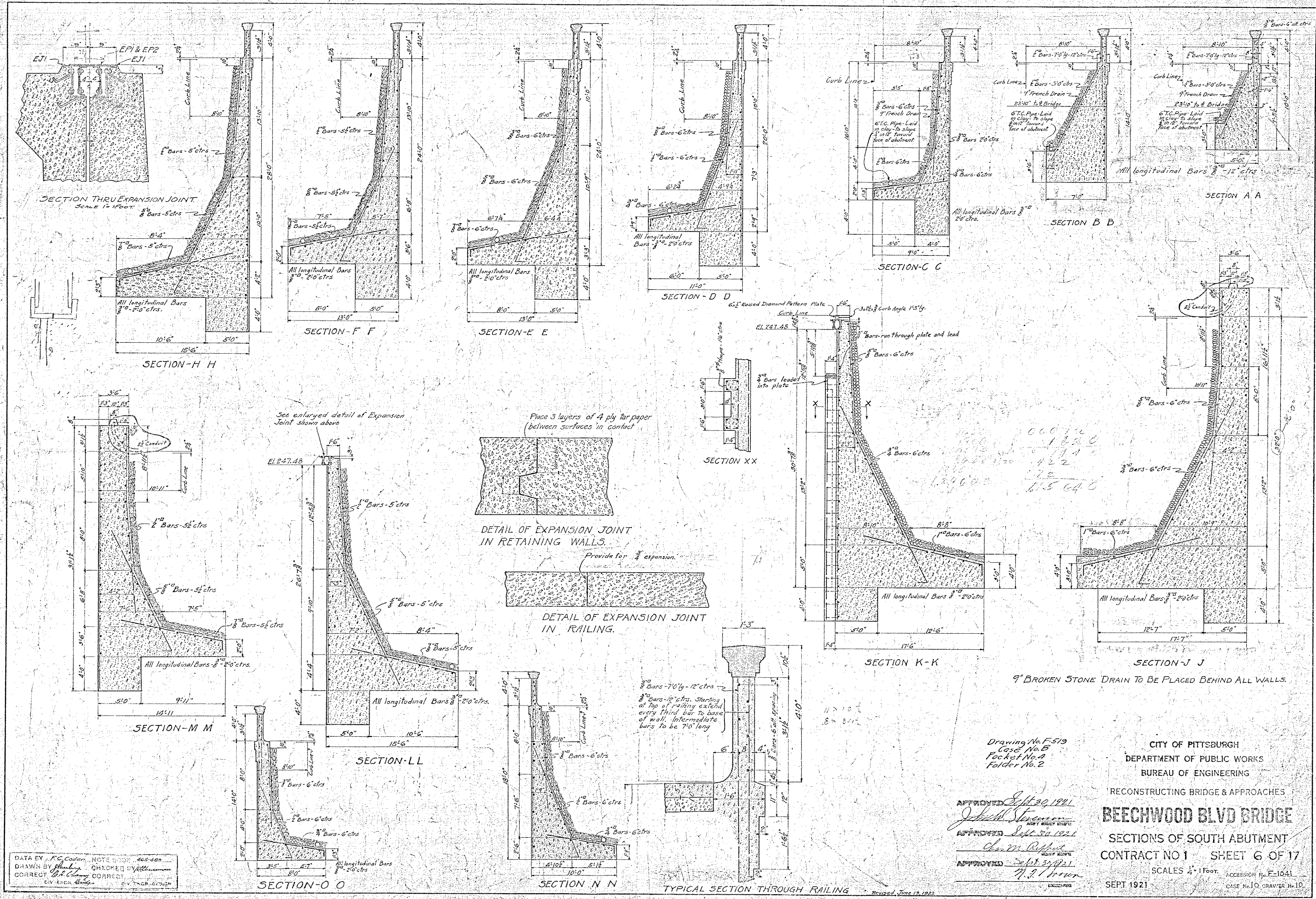
CHECKED Sept 30, 1921
 BY Wm. R. Smith
CHIEF CLERK

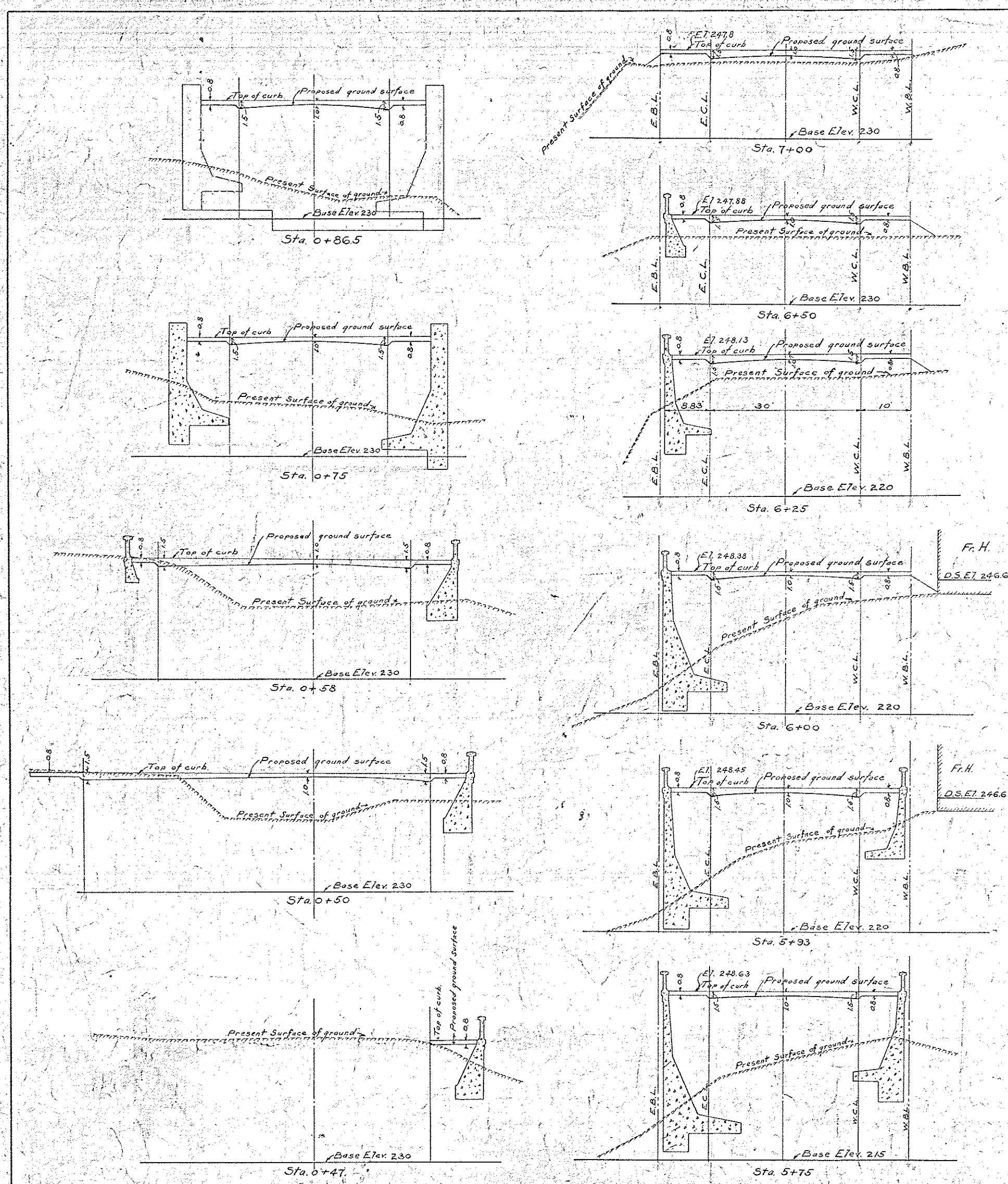
DATED Sept 30, 1921
 BY W. S. Brown
CHIEF CIVIL ENGINEER

BEECHWOOD BLVD BRIDGE
 WING WALL OF NORTH ABUTMENT
 CONTRACT NO 1 SHEET 4 OF 17
 SCALES $\frac{1}{4} = 1'-0"$

ACCESSION No. F-1633
 CASE No. 10, DRAWER No. 10
 SEPT 1921







CROSS SECTIONS OF NORTH ABUTMENT.

CROSS SECTIONS OF SOUTH ABUTMENT.

Note:—
Backfilling abutments to proposed ground surface,
shall be included in the price bid under item #1.
Grading under this contract shall end at Sta. 6+57.96

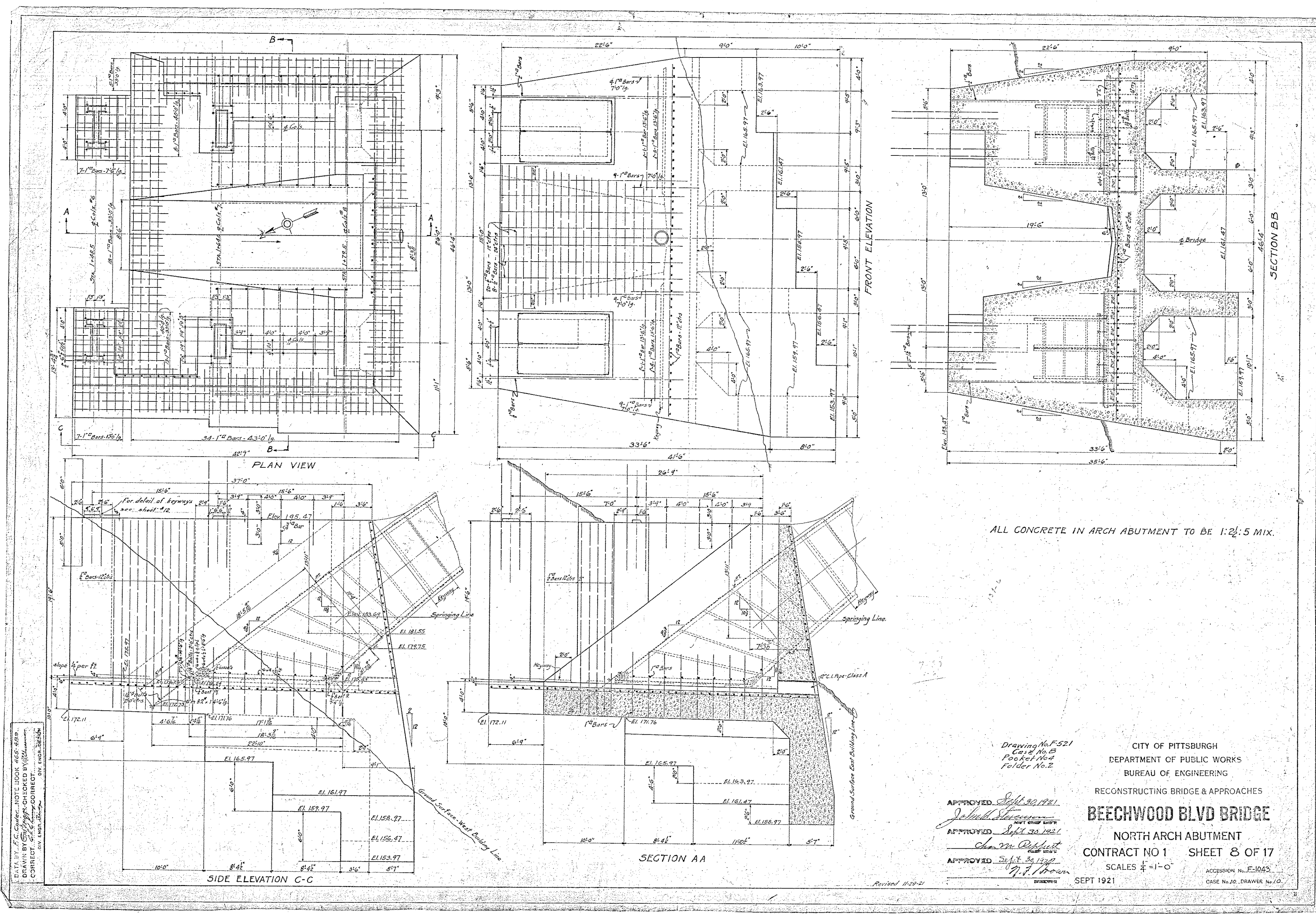
DATA BY E.C. GARDNER, NOTE BOOK #65-389
DRAWN BY W.H. VY, CHECKED BY R.H. GARDNER
CORRECTED BY E.C. GARDNER, CORRECTED BY R.H. GARDNER
DIV. ENGR. DESIGN DIV. ENGR. DESIGN

Drawing No. F-520
Case No. 12
Pocket No. 4
Folder No. 2
APPROVED *[Signature]* Sept 30 1921
APPROVED *[Signature]* Sept 30 1921
APPROVED *[Signature]* Sept 30 1921
APPROVED *[Signature]* Sept 30 1921

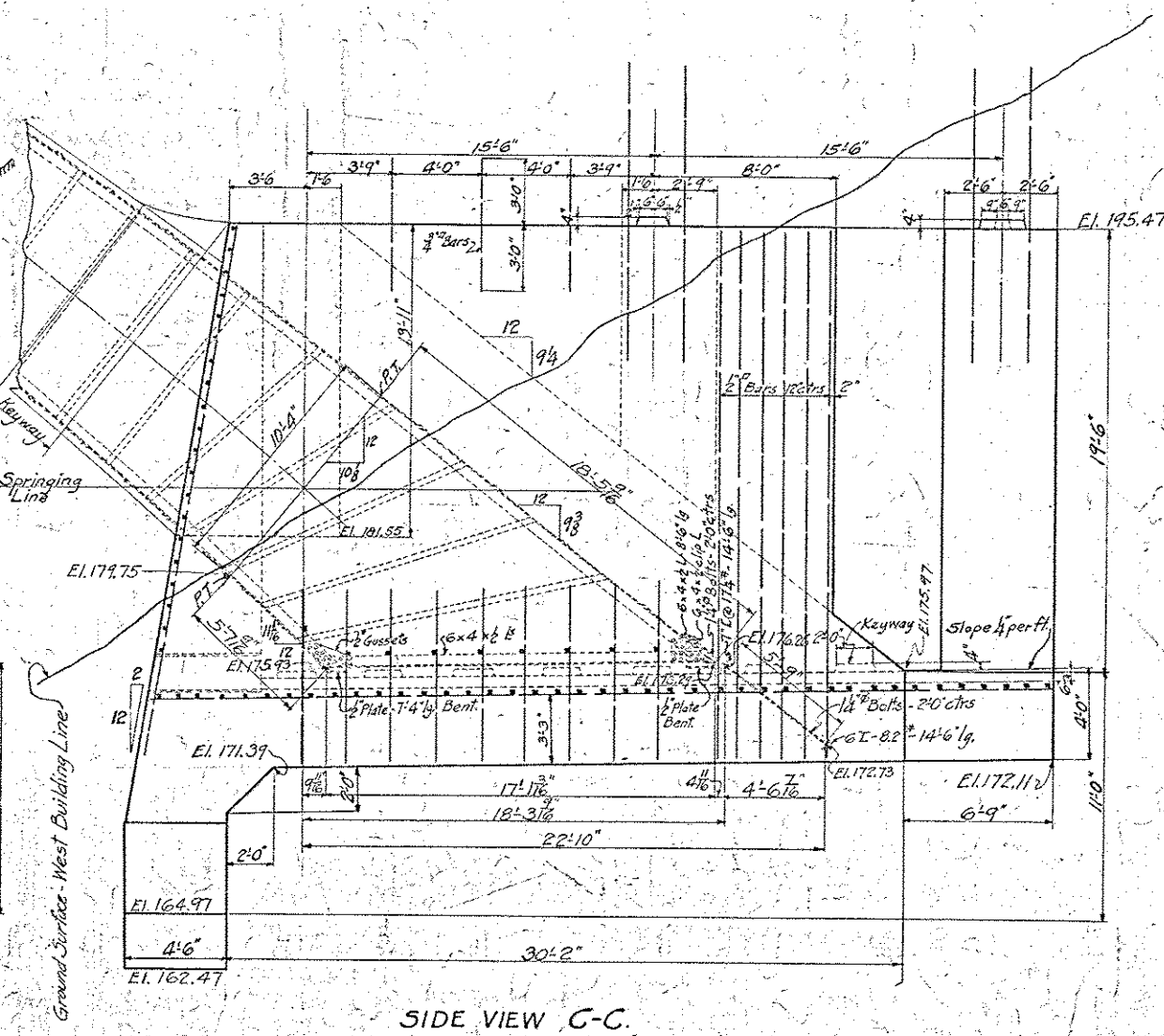
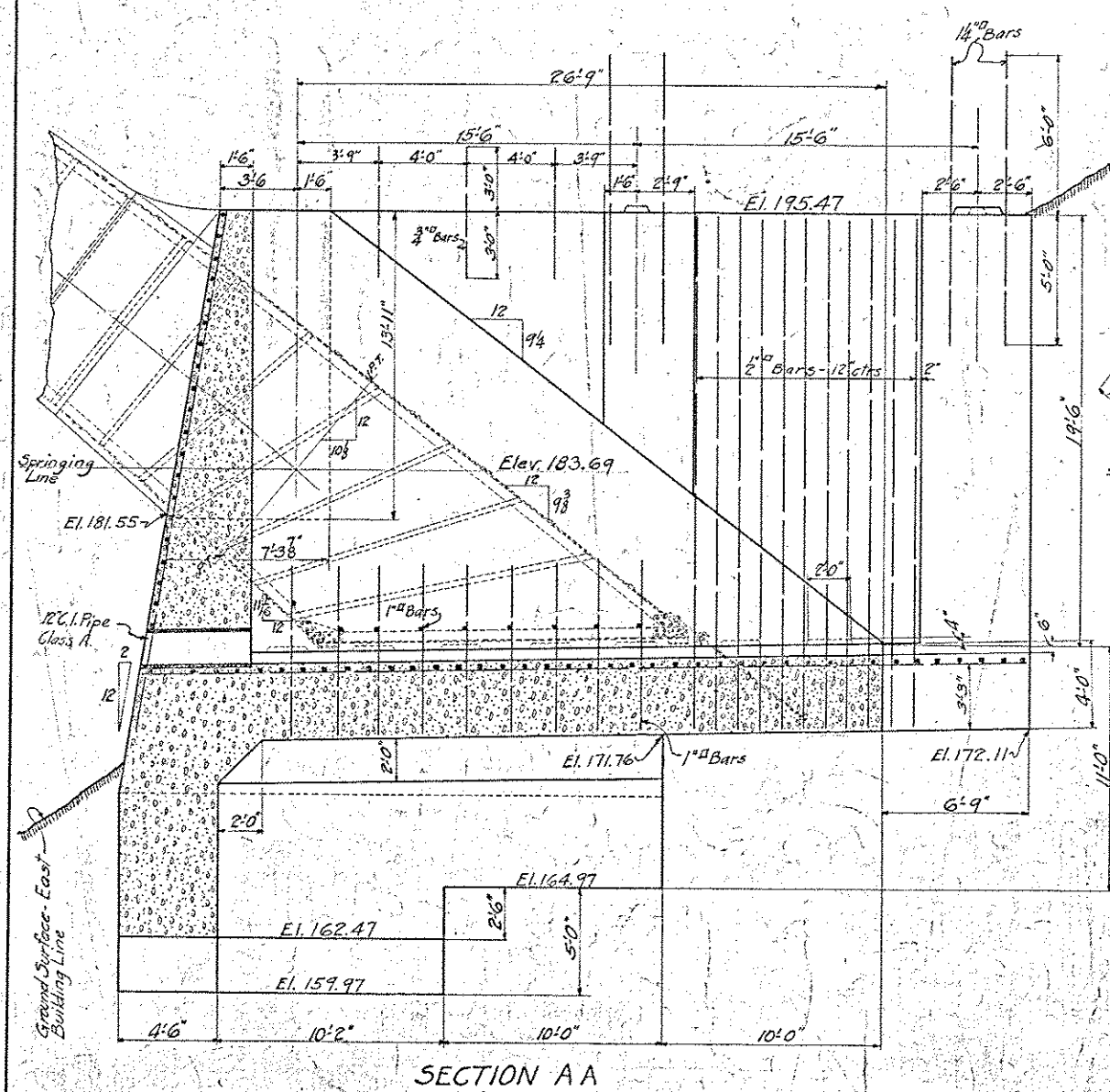
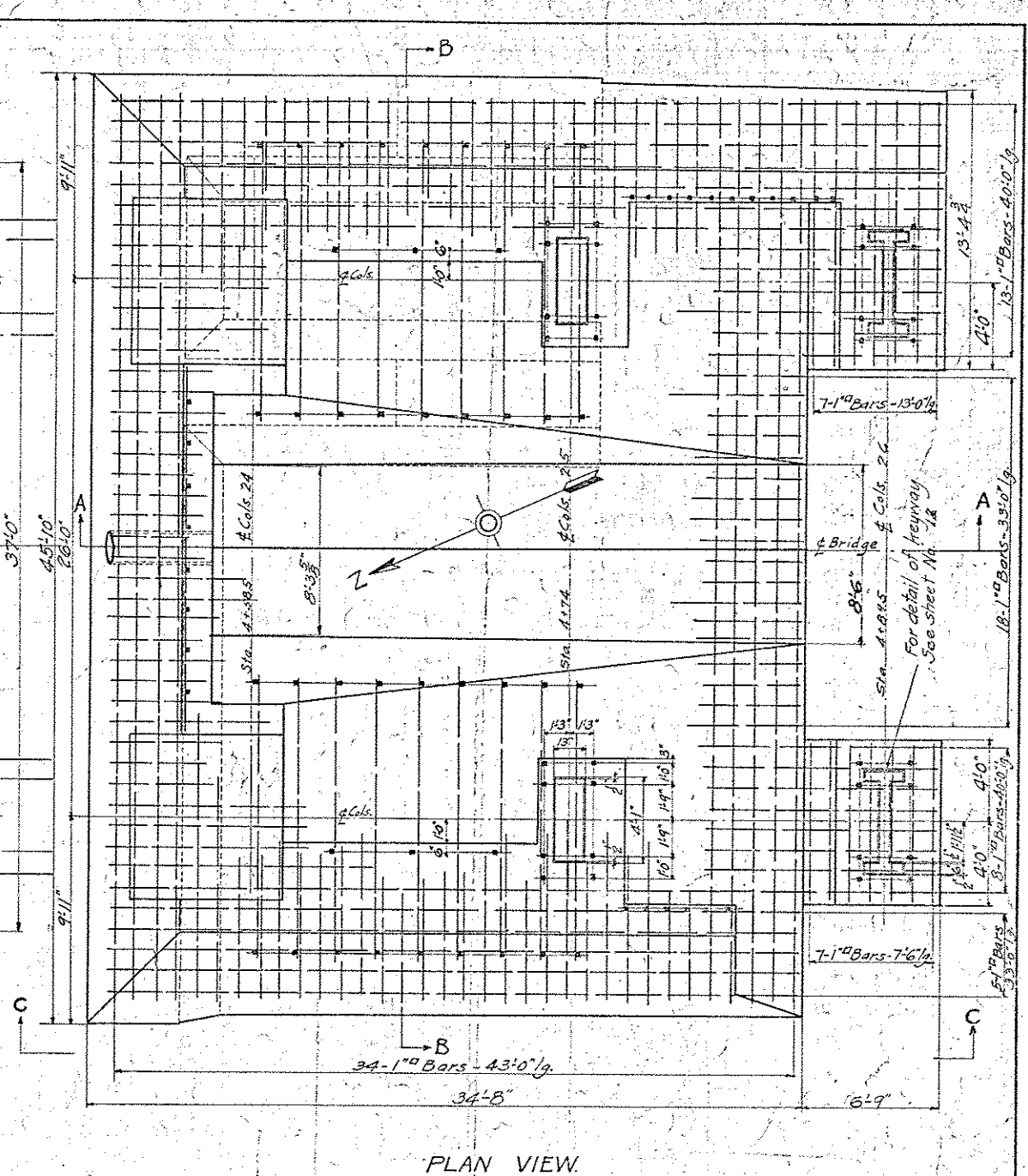
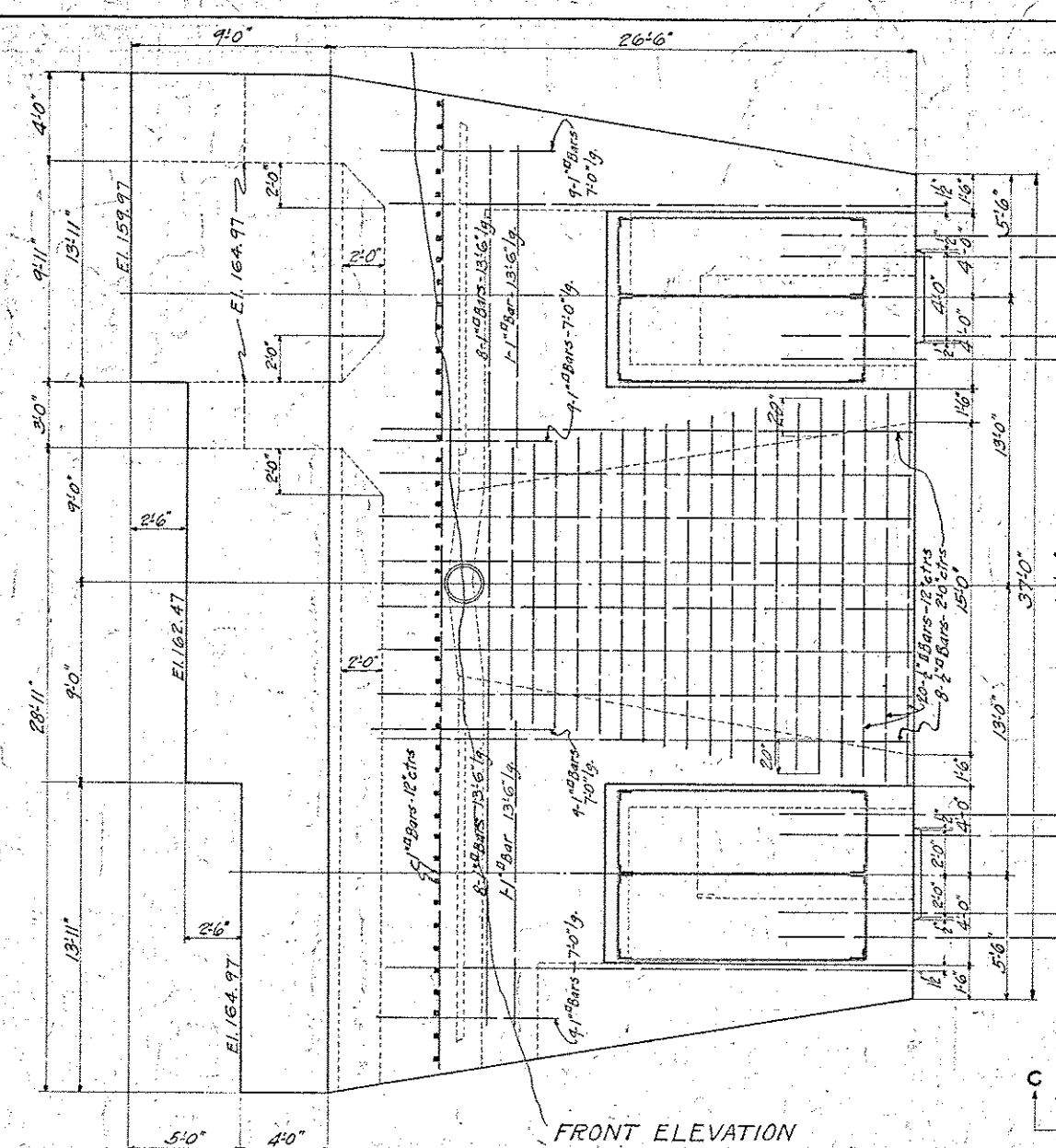
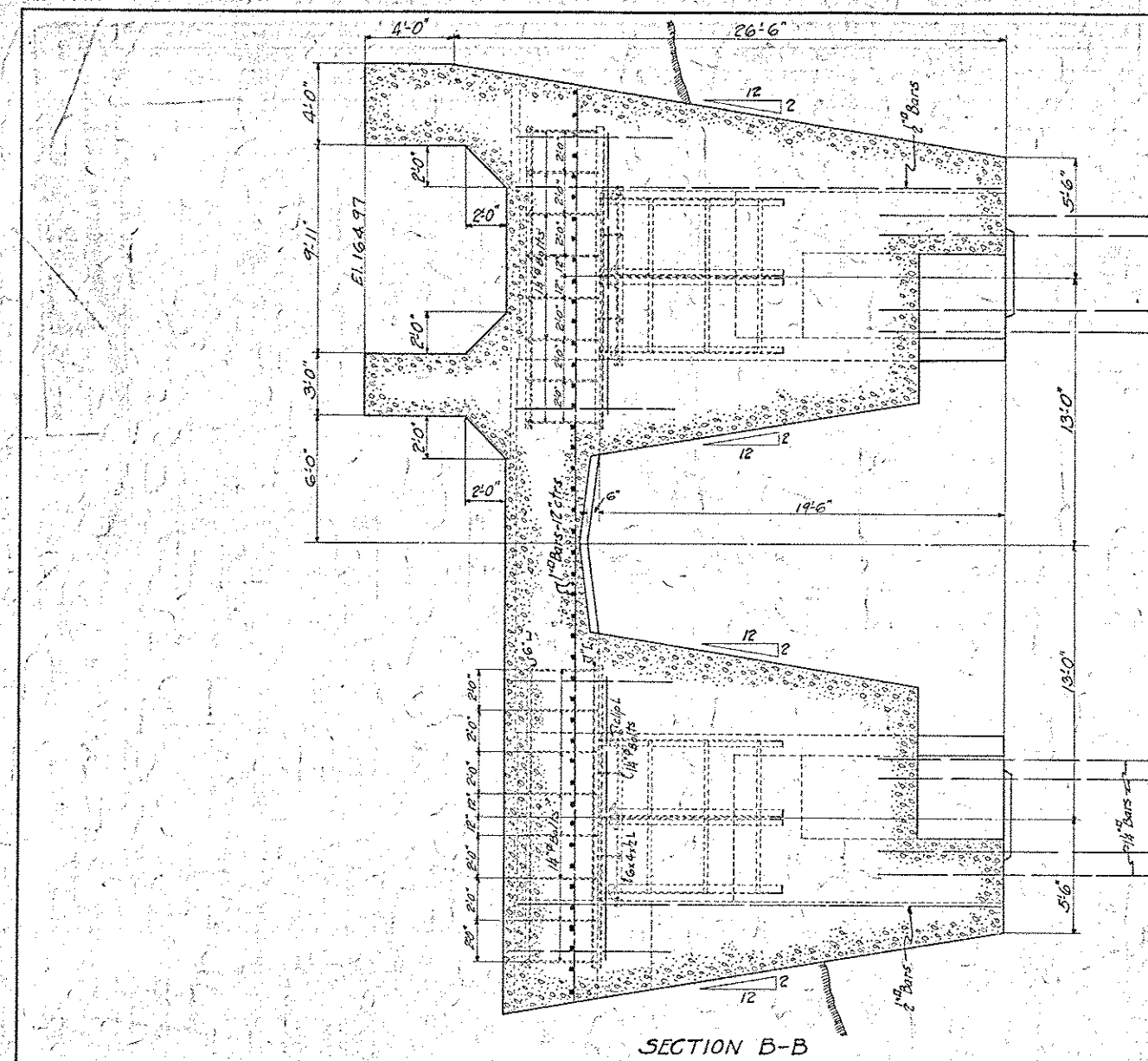
CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
RECONSTRUCTING BRIDGE & APPROACHES
BEECHWOOD BLVD BRIDGE
CROSS SECTIONS OF ABUTMENTS
CONTRACT NO 1 SHEET 7 OF 17
SCALES 1"=1'-0" REVISION No. F-1042
SEPT 1921 CASE No. 12, DRAWING No. 12

26'-8" = 18' CLEAR

FOR INFORMATION ONLY



FOR INFORMATION ONLY



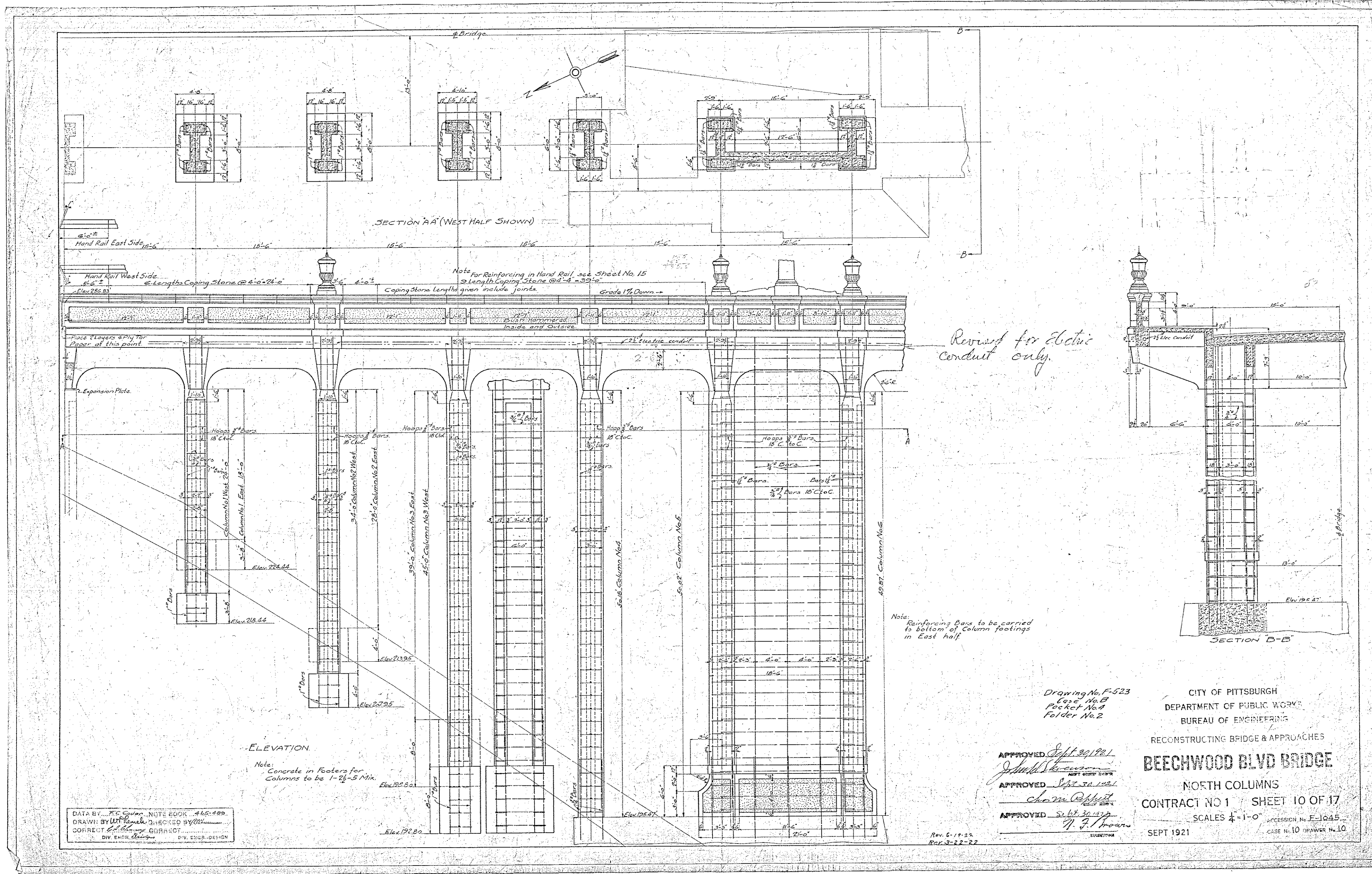
ALL CONCRETE IN ARCH ABUTMENT TO BE 1:2 1/2:5 MIX.

NOTE: SEE BOOK 465-489
FOR BY ENGINEER CHECKED BY M. J. JEFF
CORRECTED BY M. J. JEFF
DIV. ENGINEER

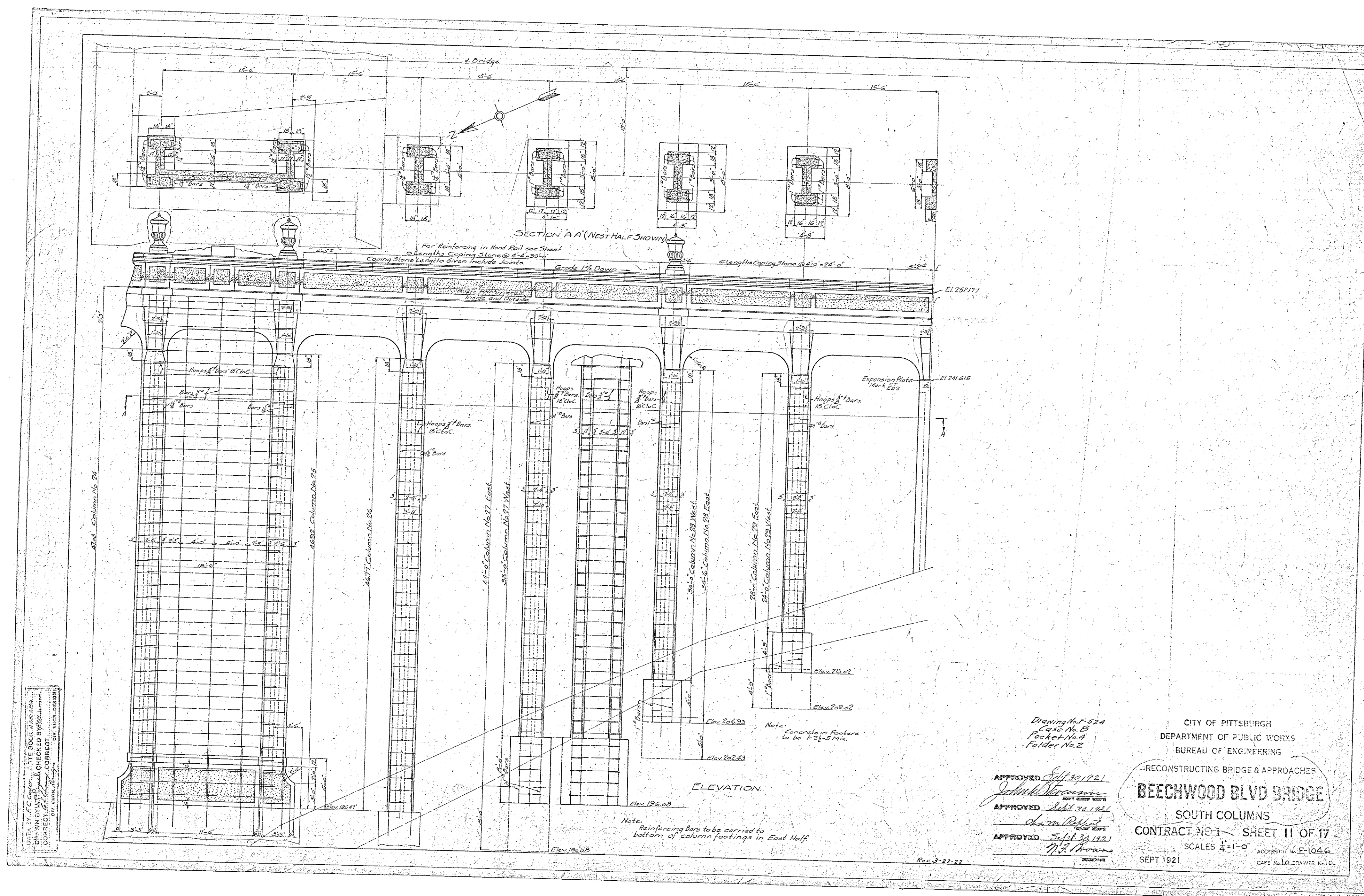
Drawing No. F-522
Case No. 2
Pocket No. 2
Folder No. 2
APPROVED Sept. 30, 1921
J. H. JEFF
APPROVED Sept. 30, 1921
Charles R. Jeff
APPROVED Sept. 30, 1921
M. J. Jeff

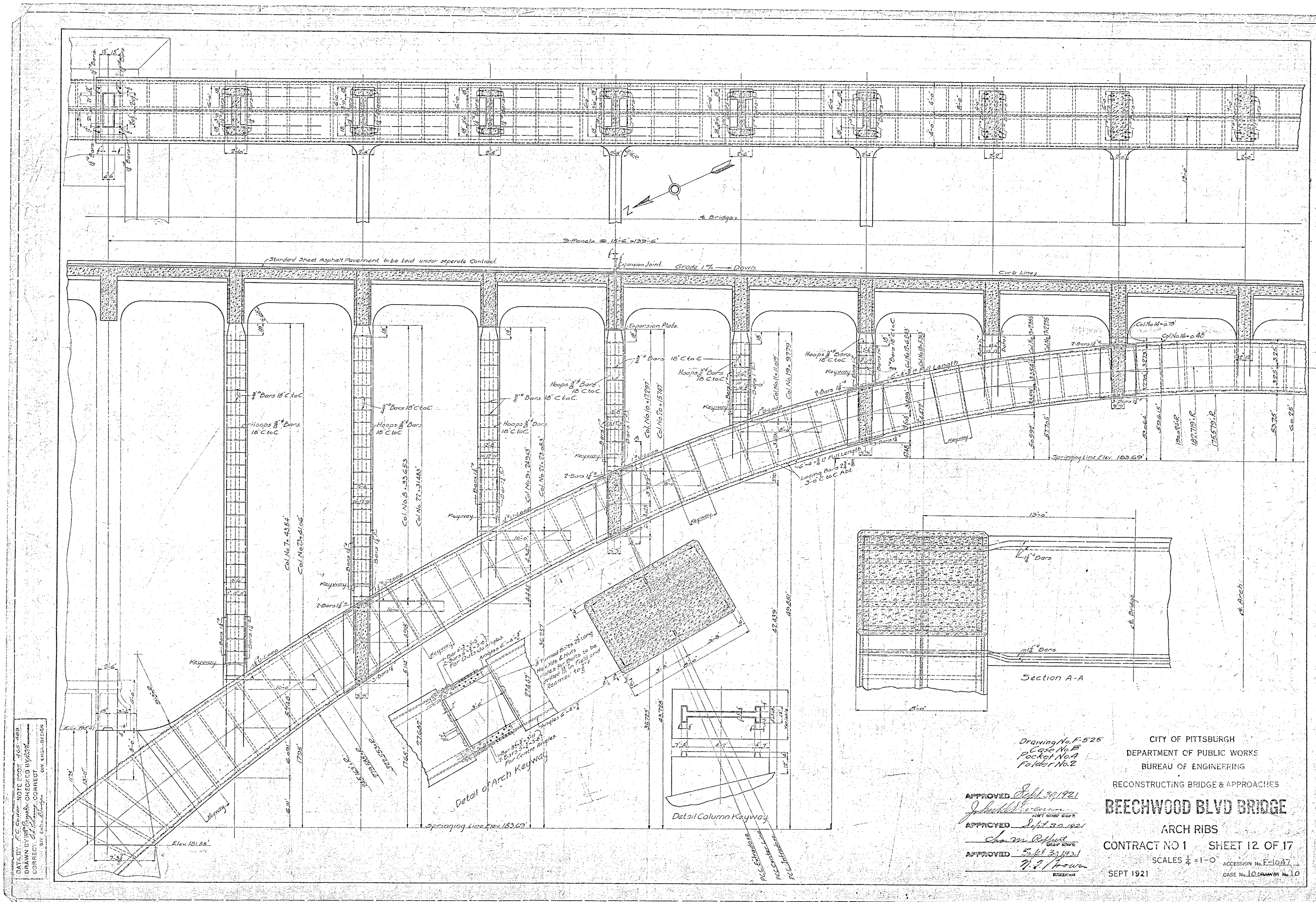
CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
RECONSTRUCTING BRIDGE & APPROACHES
BEECHWOOD BLVD BRIDGE
SOUTH ARCH ABUTMENTS
CONTRACT NO 1 SHEET 9 OF 17
SCALES 1/4" = 1'-0"
SEPT 1921
ACCESSION No. E-1044
CASE No. 10 DRAWER No. 10

FOR INFORMATION ONLY



FOR INFORMATION ONLY

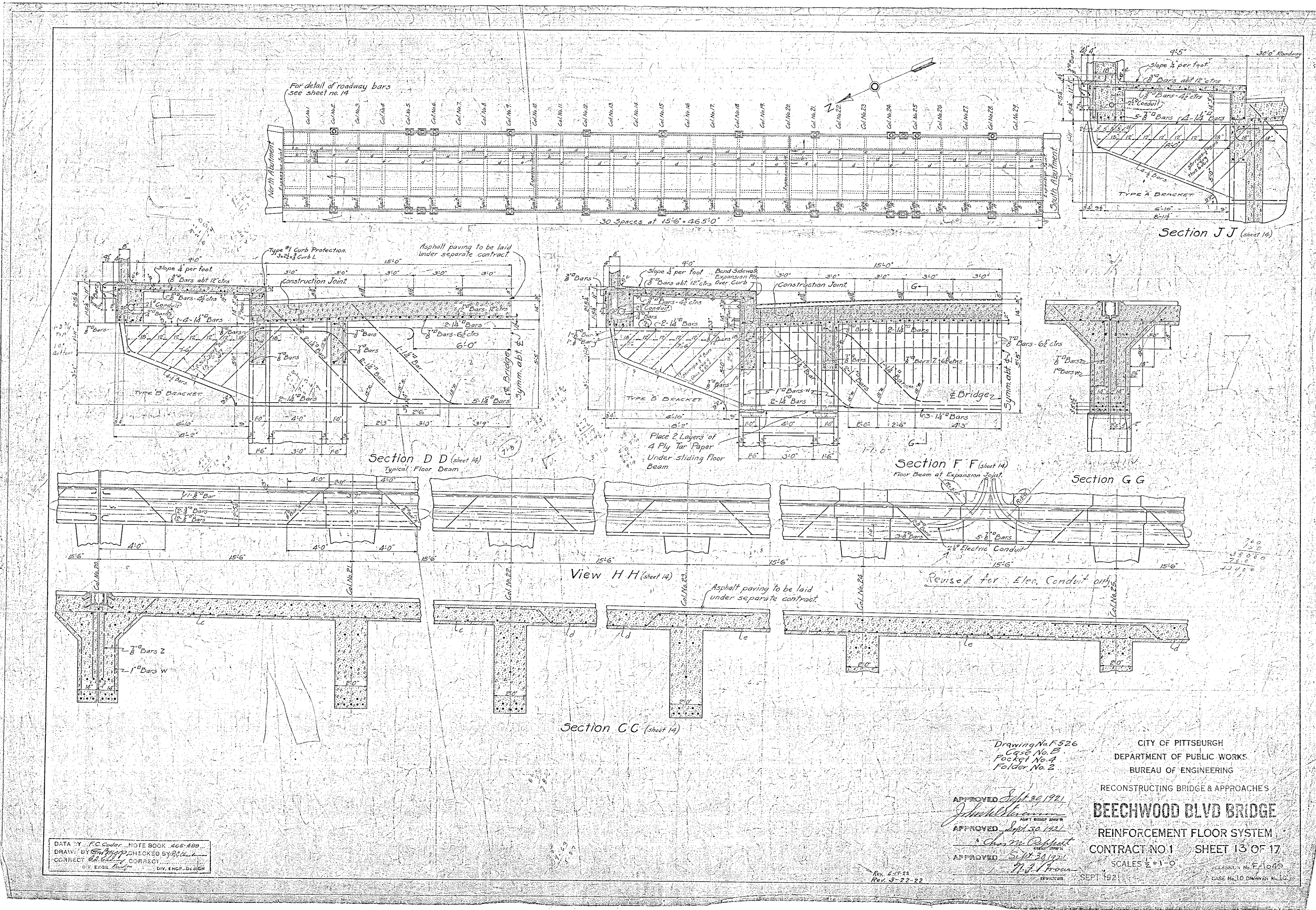


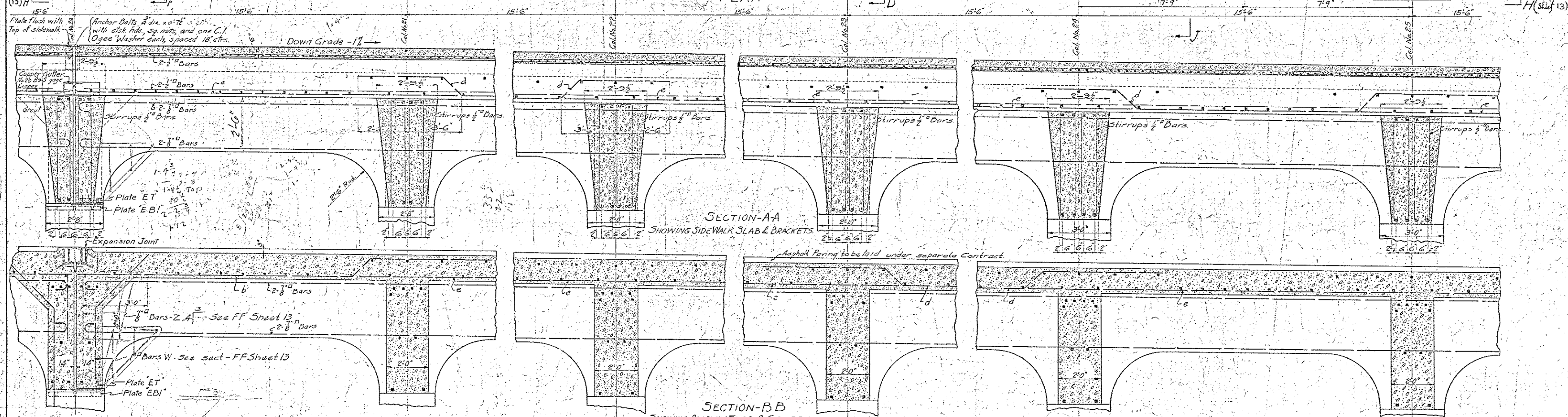
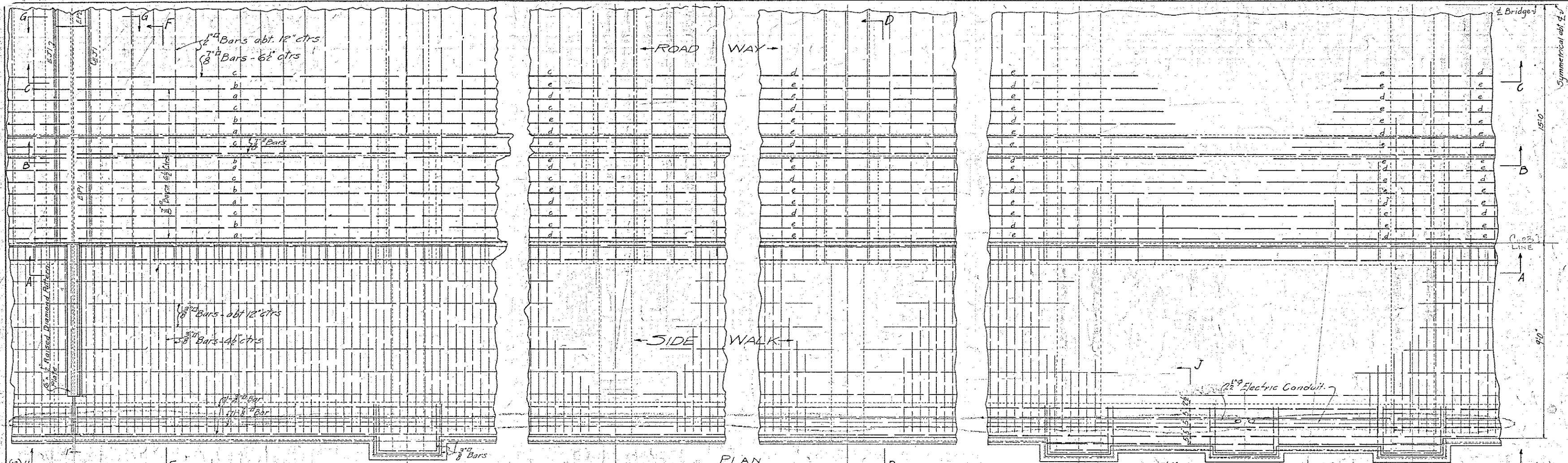


Drawing No. F-525
Case No. B
Pocket No. A
Folder No. 2

APPROVED *J. H. Brown*
APPROVED *J. H. Brown*
APPROVED *J. H. Brown*

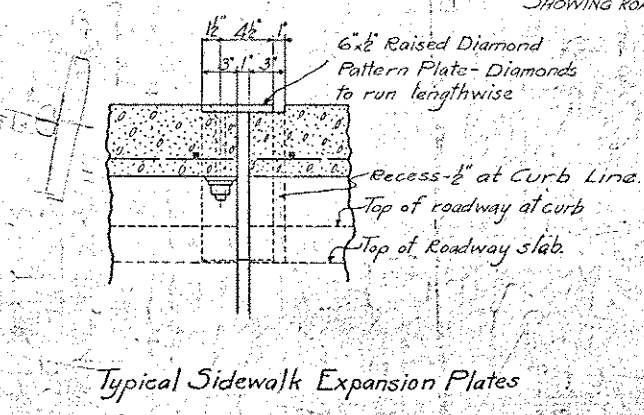
CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
RECONSTRUCTING BRIDGE & APPROACHES
BEECHWOOD BLVD BRIDGE
ARCH RIBS
CONTRACT NO 1 SHEET 12 OF 17
SCALES 1/4" = 1'-0"
SEPT 1921
ACCESSION No. E-1047
CASE No. 10 DRAWING No. 10





Types of Roadway Bars.

Mark	Section	Description
a	1/2"	18'-6"
b	3/8"	18'-6"
c	3/8"	18'-6"
d	3/8"	18'-6"
e	3/8"	18'-6"



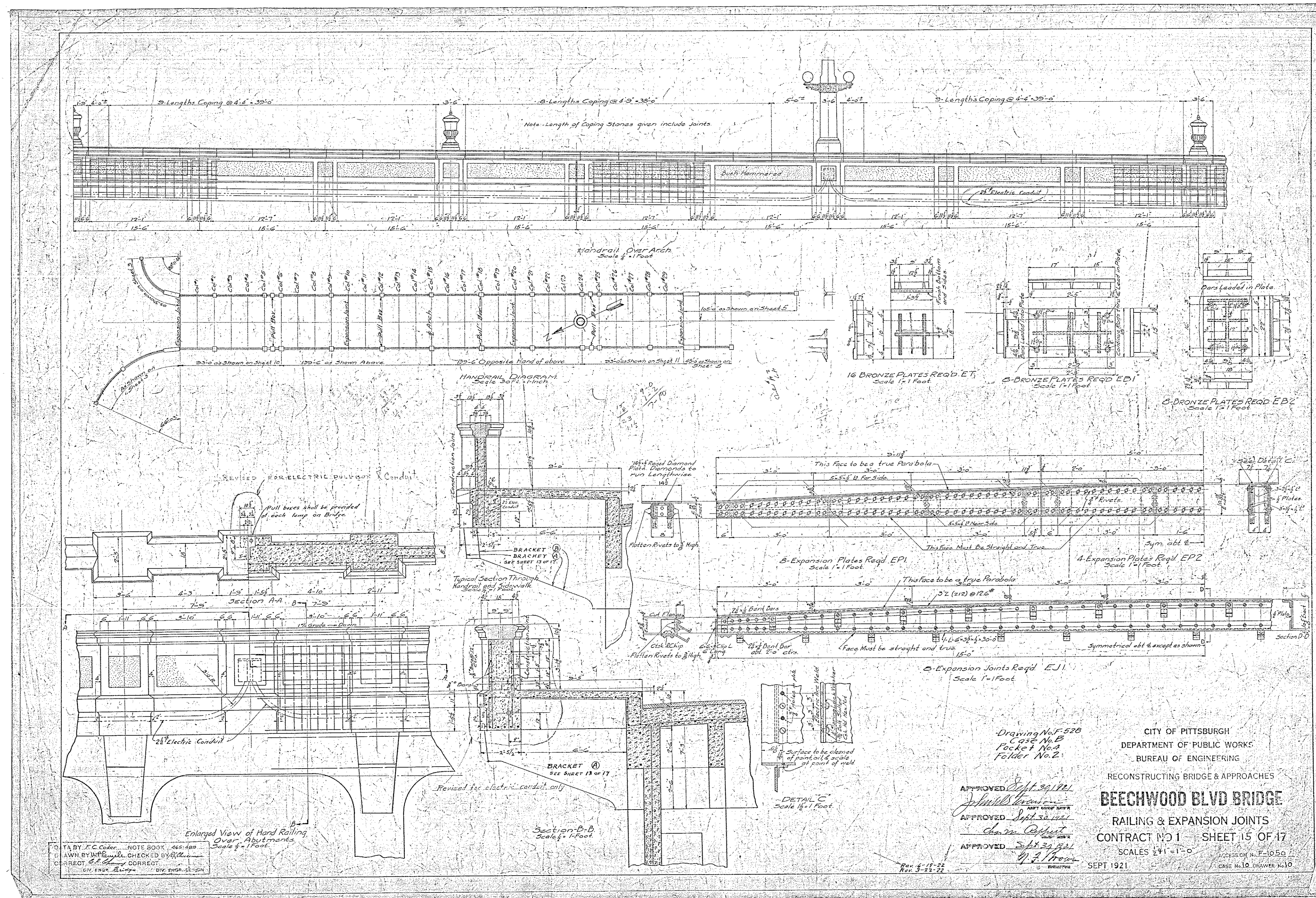
Note: Sections GC, D-D, F-F, G-G, H-H and J-J are detailed on sheet No. 13.

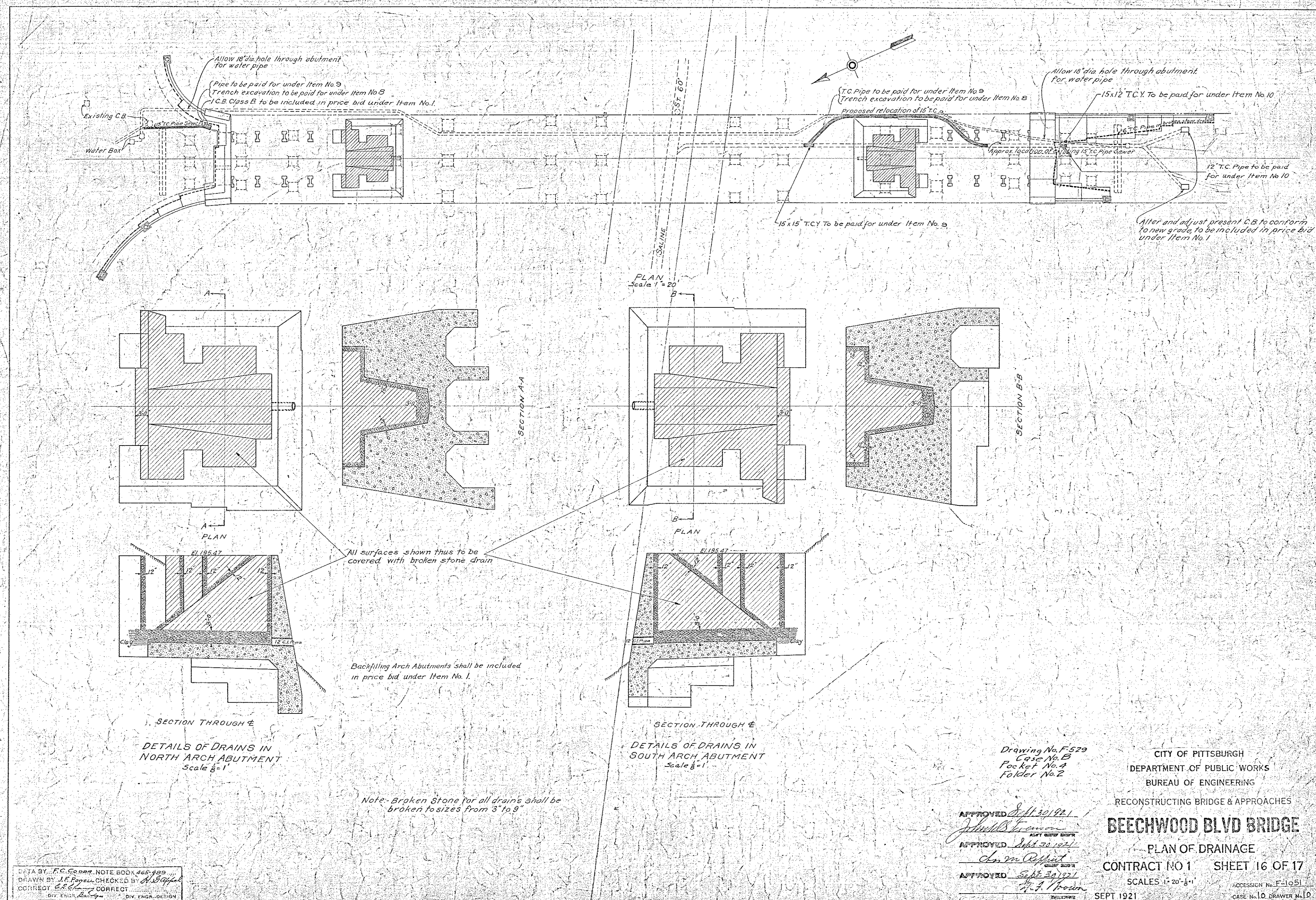
DATA BY: F.C. Carter, NOTE BOOK, 448,489, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

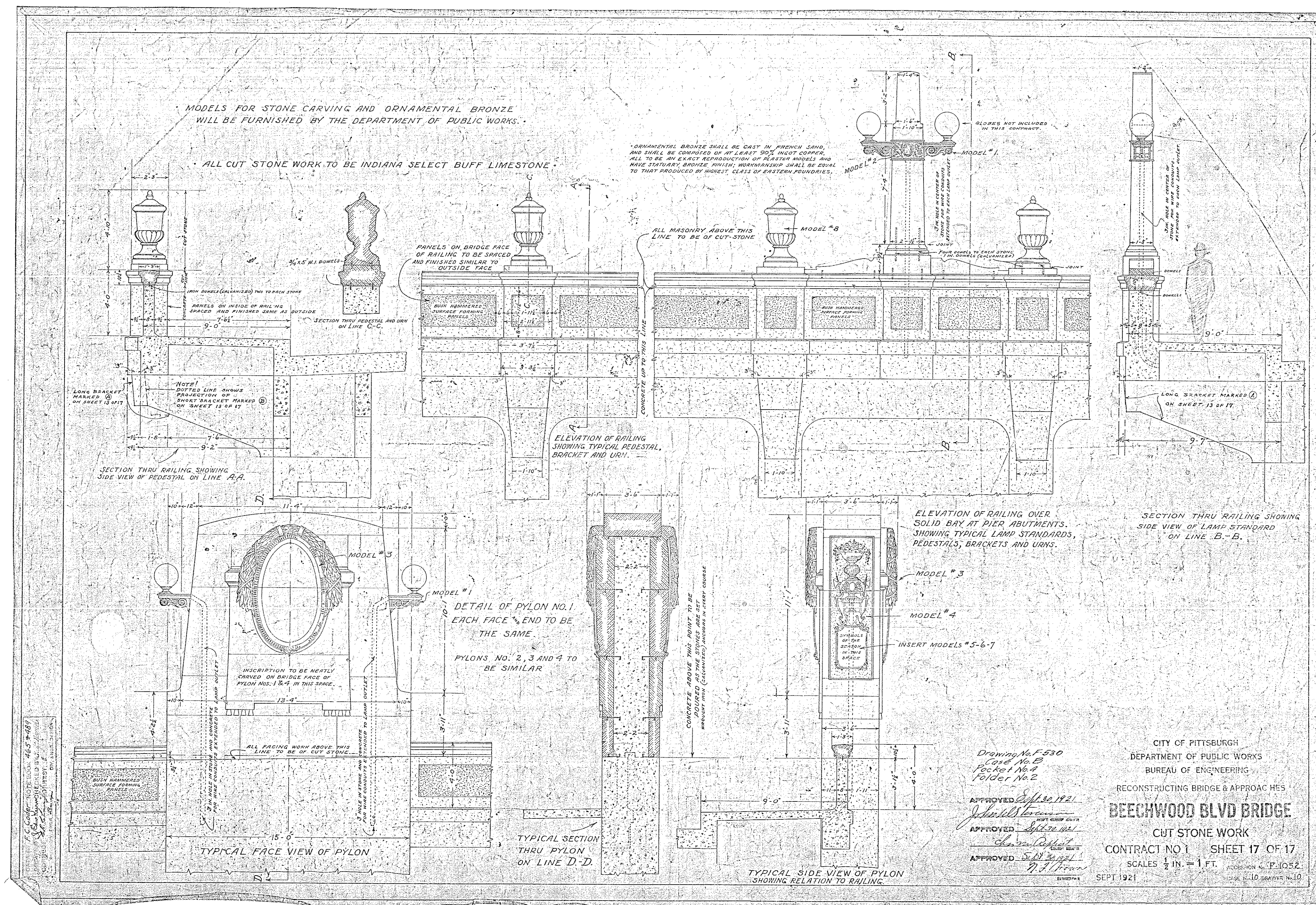
Drawing No. F-527
Cape No. 8
Folder No. 2
APPROVED: *[Signature]*
APPROVED: *[Signature]*
APPROVED: *[Signature]*
APPROVED: *[Signature]*

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
RECONSTRUCTING BRIDGE & APPROACHES
BEECHWOOD BLVD BRIDGE
REINFORCEMENT FLOOR SYSTEM
CONTRACT NO 1 SHEET 14 OF 17
SCALES 1/2" = 1'-0"
SEPT 1921
ACCESSION No. F-1048
CASE No. 10, DRAWING No. 10

FOR INFORMATION ONLY







COPY FROM START UP MEETING 10/15/92

FOR INFORMATION ONLY

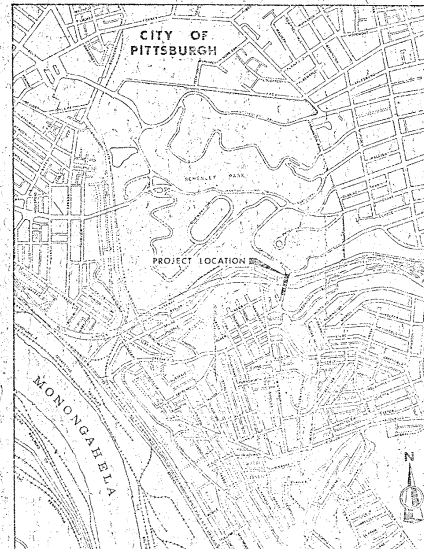
PROJECT NO. M-H063(I)

CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING RECONSTRUCTION OF GREENFIELD AVENUE BRIDGE

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	REMOVAL AND DISPOSAL OF CONCRETE BRIDGE SUPERSTRUCTURE INCLUDING EXISTING WOODEN PLATFORM	L.S.	LUMP SUM
C2	STRUCTURE BACKFILL	C.Y.	30
C3	SUBGRADE	S.Y.	177
C4	SUBBASE 8" DEPTH	S.Y.	177
C5	BITUMINOUS WEARING COURSE 102 2 1/2" DEPTH SPL-H	S.Y.	2,155
6	INLET BOX	EACH	2
7	TYPE M INLET TOP UNIT	EACH	2
C8	PEDESTRIAN TRAFFIC BARRIER	L.F.	282
9	END TRANSITION PEDESTRIAN TRAFFIC BARRIER	EACH	4
C10	CEMENT CONCRETE SIDEWALK (BRIDGE) (APPROX. 180 C.Y.)	L.S.	LUMP SUM
C11	REINFORCED CEMENT CONCRETE APPROACH SLAB	S.Y.	179
C12	3 PLY MEMBRANE WATERPROOFING INS.	S.Y.	75
C13	MEMBRANE WATERPROOFING, SPECIAL	S.Y.	1,505
C14	NO. 2B COARSE AGGREGATE	C.Y.	22
C15	CLASS AA CEMENT CONCRETE (APPROX. 735 C.Y.)	L.S.	LUMP SUM
C16	CLASS A CEMENT CONCRETE	C.Y.	628
C17	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	LUMP SUM
C18	LUMINAIRES - 250 WATT HPS TYPE M-S-11	EACH	4
C19	LIGHT POLES 35' MOUNTING HEIGHT	EACH	4
C20	JUNCTION BOXES STAINLESS STEEL	EACH	6
C21	AIR LID CABLE (COPPER)	L.F.	1,650
C22	2" CONDUIT IN STRUCTURE	L.F.	130
C23	REINFORCING BARS	LBS.	93,932
24	REINFORCING BARS (IN SUPERSTRUCTURE APPROX. 94,700 LBS.)	L.S.	LUMP SUM
25	REINFORCING BARS EPOXY COATED (APPROX. 70,000 LBS.)	L.S.	LUMP SUM
C26	CONCRETE HOLES 24" DEPTH	EACH	60
C27	PROTECTIVE FENCE	L.F.	930
C28	CLASS F EXCAVATION	C.Y.	284
C29	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACE	S.Y.	1,953
C30	ARMORED PREFORMED NEOPRENE COMPRESSION DAM 2" MOVEMENT	L.F.	186
31	FABRICATED STRUCTURAL STEEL (APPROX. 485,800 LBS.)	L.S.	LUMP SUM
32	DOWNSPOUTING (7" DIA. @ 12' ON C.)	L.S.	LUMP SUM
C33	BLEEDER DRAINS	EACH	48
C34	CRACK REPAIR	L.F.	1,000
C35	REMOVE D.P.C., G.W. BRICK BOX, CUT & PLUG TEE ETC.	L.S.	LUMP SUM
36	MOBILIZATION	L.S.	LUMP SUM
C37	SURFACE SPALL REPAIR (PRESSURE APPLIED CONCRETE)	BAGS	48
C38	CEMENT CONCRETE SIDEWALK APPROACH	S.Y.	225
C39	REPAVE WITH BITUMINOUS SURFACE	S.Y.	650
40	SANDBLASTING	L.S.	LUMP SUM
41	EPOXY RESIN PROTECTIVE COATING	L.S.	LUMP SUM
42	FURNISH, MAINTAIN AND REMOVE HIGHWAY PROTECTIVE STRUCTURE	L.S.	LUMP SUM
C43	CEMENT CONCRETE SPILLWAYS	C.Y.	35
C44	REMOVE AND BACKFILL EXIST. WATER VALVE BOX	EACH	3
C45	REMOVAL AND DISPOSAL OF ADDITIONAL CONCRETE BRIDGE SUPERSTRUCTURE	C.Y.	100
C46	UNFORSEEN WATER POLLUTION AND SOIL EROSION CONTROL	HRS.	4000
C47	TRAINERS	L.S.	LUMP SUM
C48	INSPECTORS FIELD OFFICE	L.S.	LUMP SUM
C49	MAINTENANCE ROAD	L.S.	LUMP SUM
C50	SEISMIC INSPECTION	L.S.	LUMP SUM



LOCATION MAP

0 600 1200 2400
SCALE IN FEET

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	LOCATION MAP AND SHEET INDEX
2	GENERAL PLAN AND ELEVATION
3	PLAN AND ELEVATION OF EXISTING BRIDGE
4	COLUMN DETAILS - 1
4A	COLUMN DETAILS - 2
5	COLUMN DETAILS - 3
6	ABUTMENT AND APPROACH SLAB DETAILS
7	FRAMING PLAN AND CROSS SECTION
8	STEEL DETAILS
9	SLAB PLAN
10	DECK DETAILS
11	DECK DRAINAGE - 1
12	DECK DRAINAGE - 2
13	NORTH APPROACH DETAILS
14	SOUTH APPROACH DETAILS
15	ELECTRICAL DETAILS
16	MAINTENANCE AND PROTECTION OF TRAFFIC - 1
17	MAINTENANCE AND PROTECTION OF TRAFFIC - 2
18	MAINTENANCE AND PROTECTION OF TRAFFIC - 3
19	MAINTENANCE AND PROTECTION OF TRAFFIC - 4
20	MAINTENANCE AND PROTECTION OF TRAFFIC - 5
21	SURVEY INFORMATION

APPLICABLE PENNDOT STANDARD DRAWINGS

RC-25	BRIDGE APPROACH SLAB	JAN. 31, 1977
RC-34	INLETS	NOV. 15, 1977
RC-40	SLOPE PROTECTION	NOV. 15, 1977
RC-57	CONCRETE MEDIAN BARRIER	JUNE 1, 1975
BC-321	ELECTRICAL DETAILS	JULY 1, 1970
BC-332	PERMANENT METAL DECK FORMS	JULY 1, 1970
BC-334	THREADED INSERT ANCHOR ASSEMBLY	JUNE 1, 1972
BC-351	BRIDGE DRAINAGE	JULY 1, 1970
BC-363	ARMORED PREFORMED NEOPRENE COMPRESSION DAM	OCT. 20, 1970
APPLICABLE CITY OF PITTSBURGH STANDARDS		
E235	STANDARD BRICK MANHOLE	M158 TO STANDARD DETAILS OF
E309	STANDARD MANHOLE COVER AND LID	M163 TO CONSTRUCTION FOR STREET PAVEMENT
M141A	CHAIN LINK FENCES	M164 STREET LIGHTING STANDARDS
		M174 PRESSURE APPLIED CONCRETE

NOTES:

ALL WORK DONE AND MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CONTRACT PLANS, ACCESSION NOS. F-9620 TO F-9621, INCLUSIVE; THE GENERAL CONTRACT CONDITIONS, EDITION OF JULY, 1956, AND THE STANDARD SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION DATED NOVEMBER, 1930, TOGETHER WITH SUPPLEMENTS AND REVISIONS THERETO DATED MARCH, 1962; SUPPLEMENTAL SPECIFICATIONS FOR CONCRETE PAVEMENT AND BASE COURSE DATED DECEMBER, 1970; SPECIFICATIONS FOR PAINTING OF BRIDGES AND VARIOUS STEEL STRUCTURES DATED NOVEMBER, 1970; SUPPLEMENTAL SPECIFICATIONS FOR BITUMINOUS MIXTURES-REVISED 1974; ALSO, CURRENT STANDARDS FOR CONSTRUCTION OF THE CITY OF PITTSBURGH, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION CURRENT SPECIFICATION FORM 408 AND FORM 409; AND AS OTHERWISE STIPULATED IN THE SPECIAL SUPPLEMENTAL SPECIFICATIONS.

THE DETAILS SHOWN ON THE CONTRACT PLANS WERE MADE TO CONFORM WITH ORIGINAL BRIDGE DRAWINGS WITH THE IDEA OF MAKING THE MATERIAL FIT THE SITUATION AS IT EXISTS IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE DIMENSIONS IN THE FIELD AND MAKE THE NECESSARY ADJUSTMENTS TO INSURE THE CORRECT FIT OF MATERIAL. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THIS WORK.

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

LOCATION MAP AND SHEET INDEX

SCALES AS NOTED
DATE
SHEET NO. 1 OF 21
ACCESSION NO. F-9620
CASE NO. E-10-37
PENNDOT REFERENCE NO. S-13264

FIELD DATA	DRAWN	REVISIONS
BY		
CHECKED		
INCHES		
FOOT		

REVISIONS	DATE
CHARACTER	
APPROVED	3-2-79

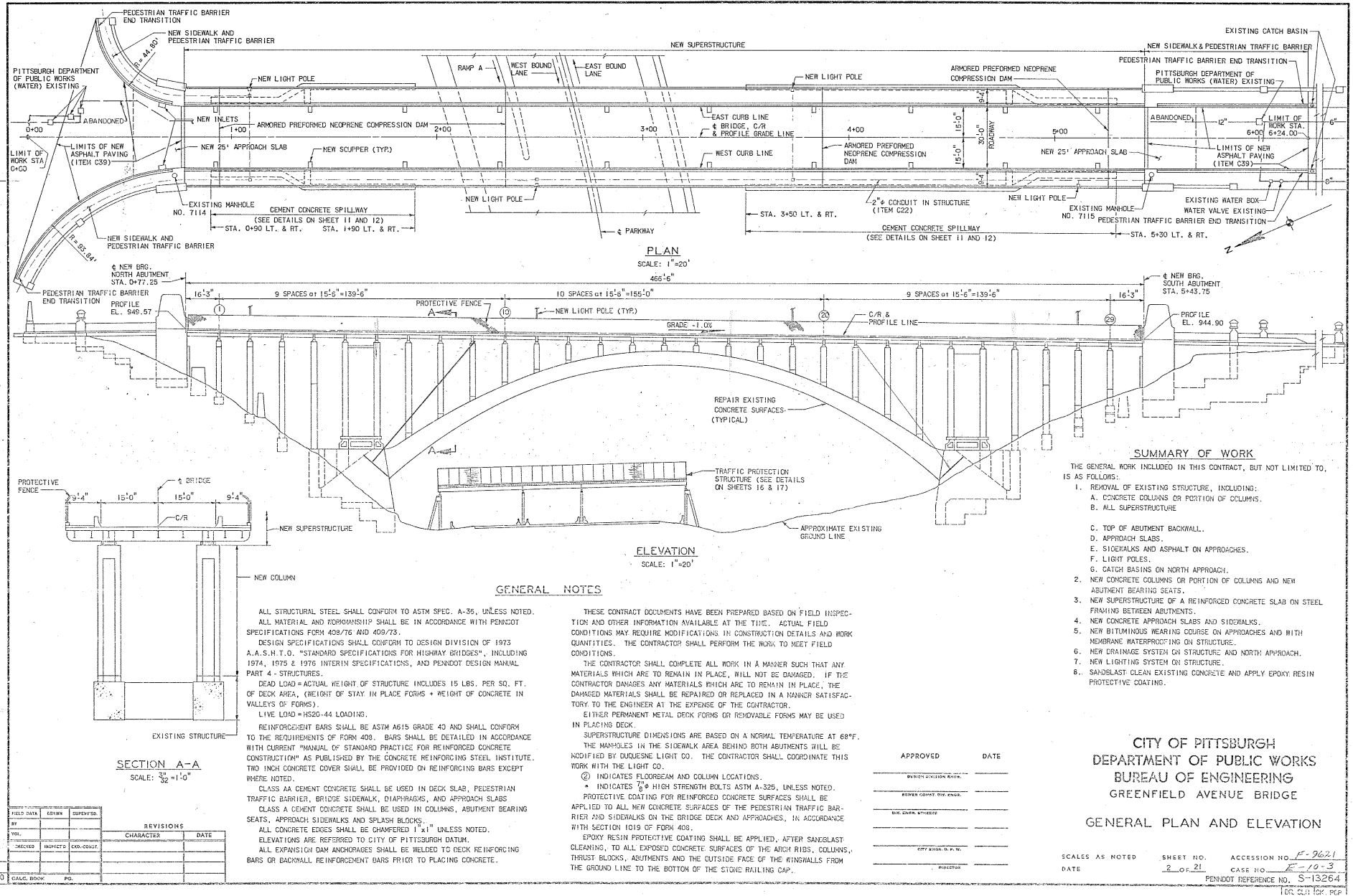
PREPARED BY
MOLESKI & MASTERS
HARRISBURG, PA

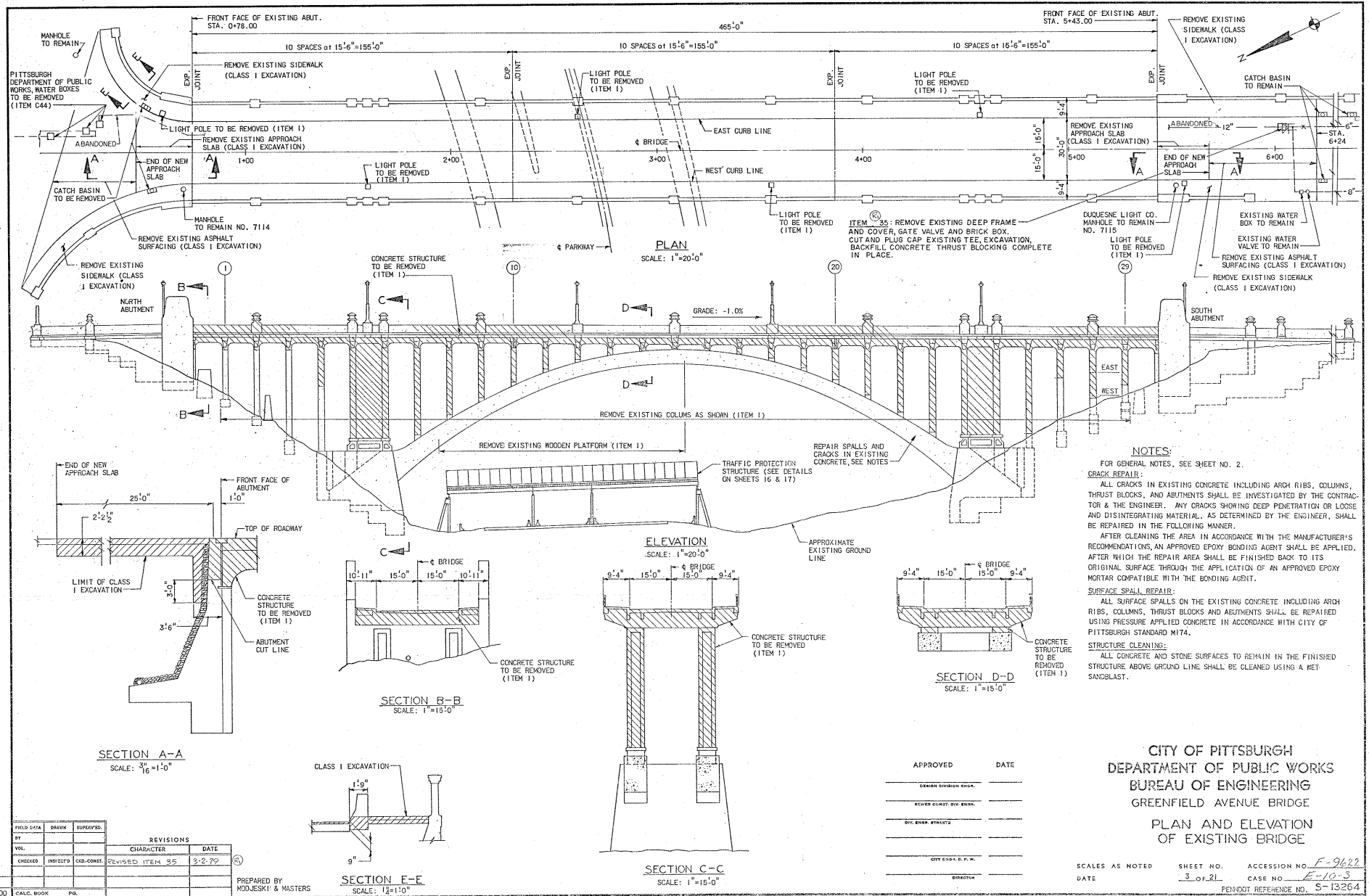


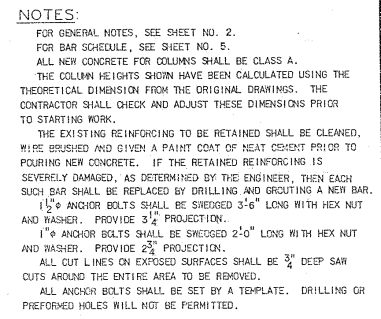
RECOMMENDED August 16, 1978
Anthony J. Galia
DISTRICT ENGINEER
RECOMMENDED August 21, 1978
Philip W. Brown
CHIEF HIGHWAY ENGINEER
APPROVED August 21, 1978
George S. Peltier
ACTING SECT. OF TRANSPORTATION
APPROVED
GOVERNOR

PENNDOT REFERENCE NO. S-13264
APPROVED 8/18/78 (DATE)
B. E. Galia
PENNSYLVANIA DEPT. OF TRANSPORTATION
BRIDGE ENGINEER

APPROVED
DATE
DESIGN DIVISION ENGINEER
SEVEN COUNTY DIST. ENGINEER
SIX COUNTY DIST. ENGINEER







FLBM. NO.	BEARING SEAT ELEVATION	FLBM. NO.	BEARING SEAT ELEVATION
1	944.58	15	942.41
2	944.42	16	942.25
3	944.27	17	942.10
4	944.11	18	941.94
5	943.96	19	941.79
6	943.80	20	941.63
7	943.65	21	941.48
8	943.49	22	941.32
9	943.34	23	941.17
10	943.18	24	941.01
11	943.03	25	940.86
12	942.87	26	940.70
13	942.72	27	940.55
14	942.56	28	940.39
		29	940.24

	FIELD DATA	DRAWN	SUPERS'D.		
	BY			REVISIONS	
	VOL.			CHARACTER	DATE
	CHECKED	INSPECT'D	CKD-CONST.		
0581					
040200	CALC. BOOK	PG.			

PREPARED BY
MOJESKI & MASTERS

APPROVED

DESIGN DIVISION ENGR.

SEWER CONVEY. DIV. ENGR.

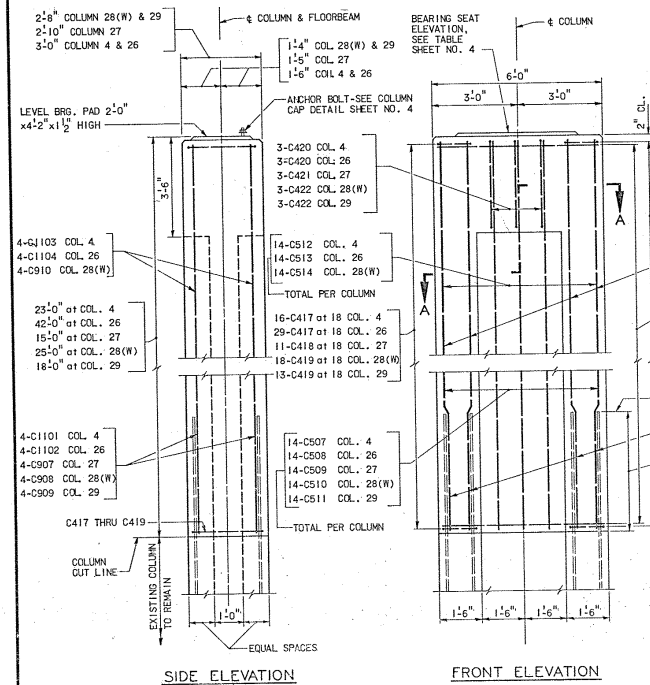
DIV. ENGR. BYSETS

CITY ENGR. S. P. W.

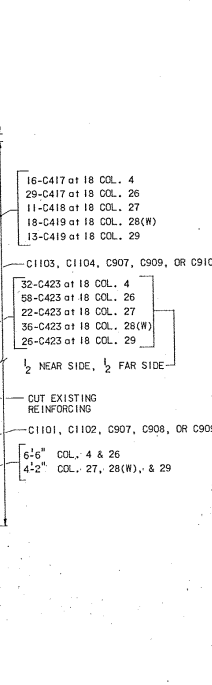
CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

COLUMN DETAILS - I

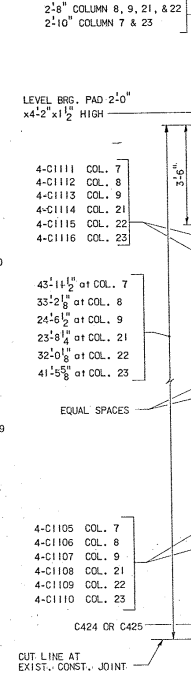
SCALES AS NOTED	SHEET NO.	ACCESSION NO. <u>F-9623</u>
DATE	<u>4 OF 21</u>	CASE NO. <u>F-10-3</u>
FENNDOT REFERENCE NO. <u>S-13264</u>		
CK. PRINT # CWH 12/26/78		DR. CWH CK. PCP



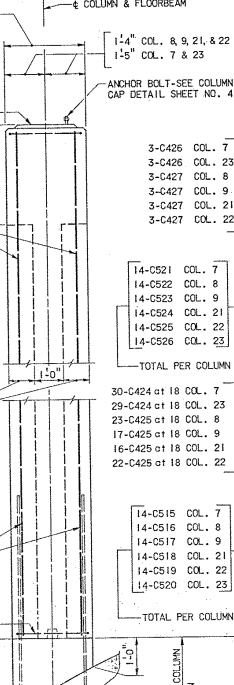
DETAILS OF NEW COLUMNS
AT FLBMS. 4, 26, 27, 28 (WEST), & 29



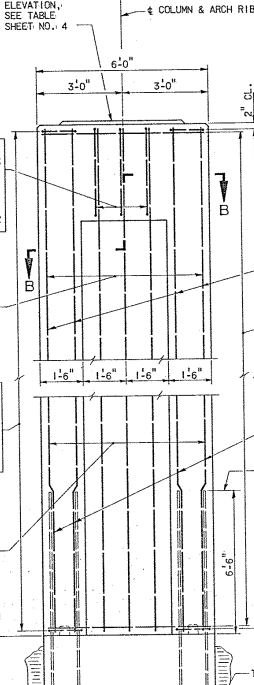
FRONT ELEVATION



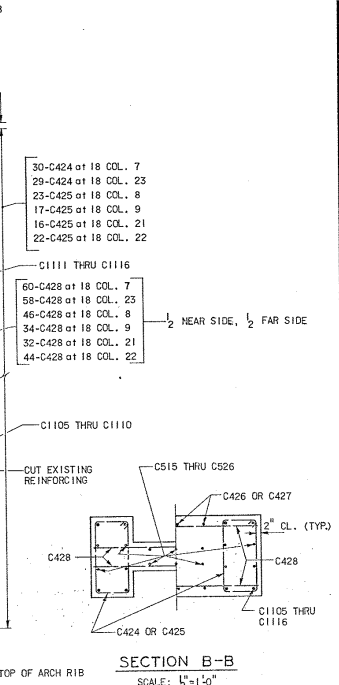
SIDE ELEVATION



DETAILS OF NEW COLUMNS
AT FLBMS. 7, 8, 9, 21, 22, & 23



FRONT ELEVATION



SECTION B-B
SCALE: $\frac{1}{2}" = 1'-0"$

NOTES:
FOR GENERAL NOTES, SEE SHEET NO. 2.
FOR ADDITIONAL COLUMN MODIFICATION NOTES,
SEE SHEET NO. 4.
FOR BAR SCHEDULE, SEE SHEET NO. 5.

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

COLUMN DETAILS-2

SCALES AS NOTED
 DATE

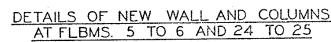
SHEET NO.
 4A OF 21

ACCESSION NO. F-9624
 CASE NO. F-10-3
 PENDOT REFERENCE NO. S-13264
 DR. SLM CK. CMH

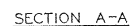
FIELD DATA	DRAWN	SUPPLY'D.		
BY			REVISONS	
VOL.			CHARACTER	DATE
CHECKED	INSPECT'D	CKD-CONST.		
CALC. BOOK	FIG.			

TYPE 1

TYPE 2



SCALE: $\frac{3''}{8} = 1'-0''$



SCALE: $3^{\text{rd}} = 1^{\text{st}} - 0^{\text{th}}$

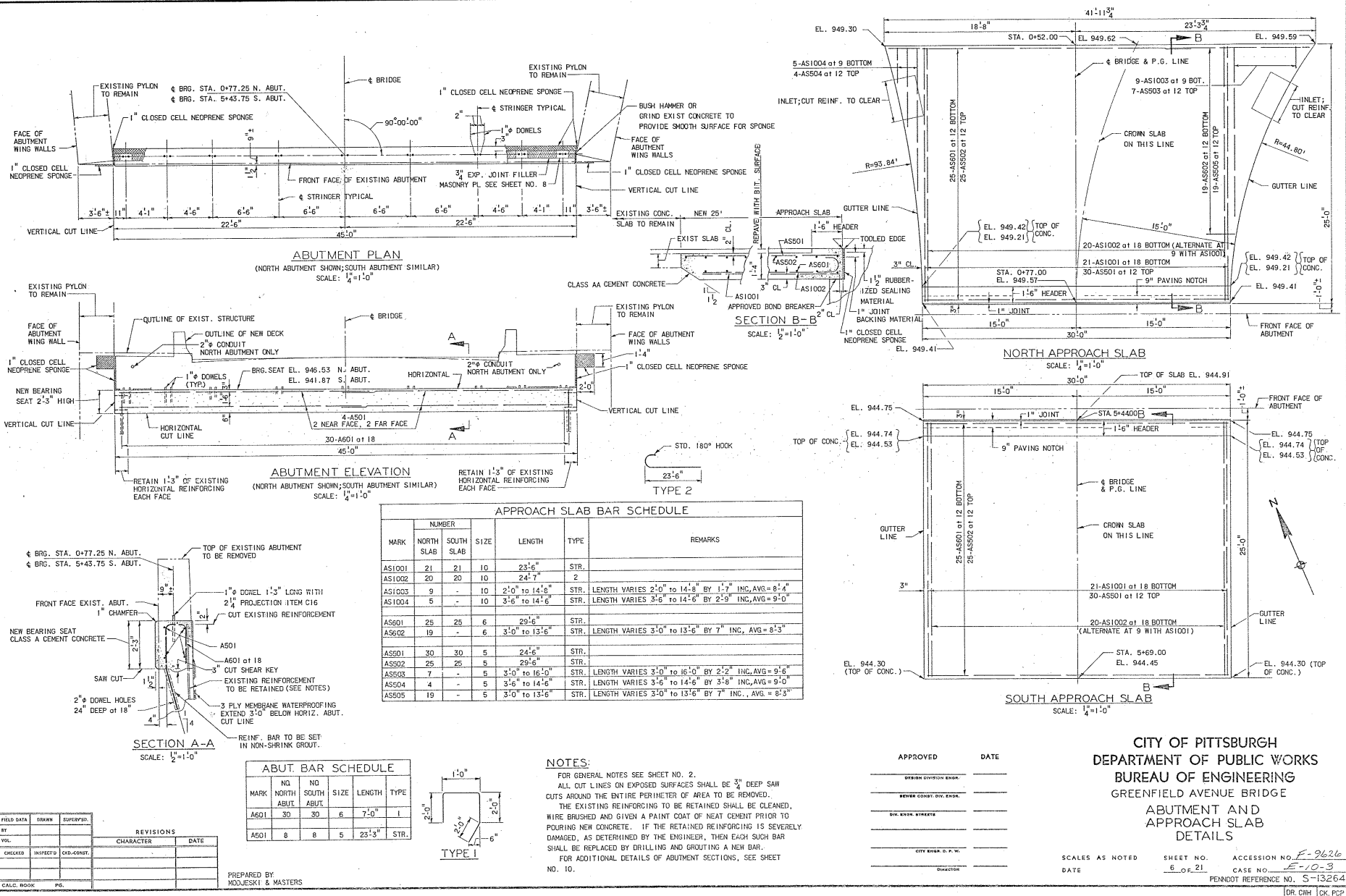
APPROVED	DATE
DESIGN DIVISION ENGR.	
NEWEST CONST. DIV. ENGR.	
DIV. ENGR. STREETS	
CITY ENGR. D. P. W.	

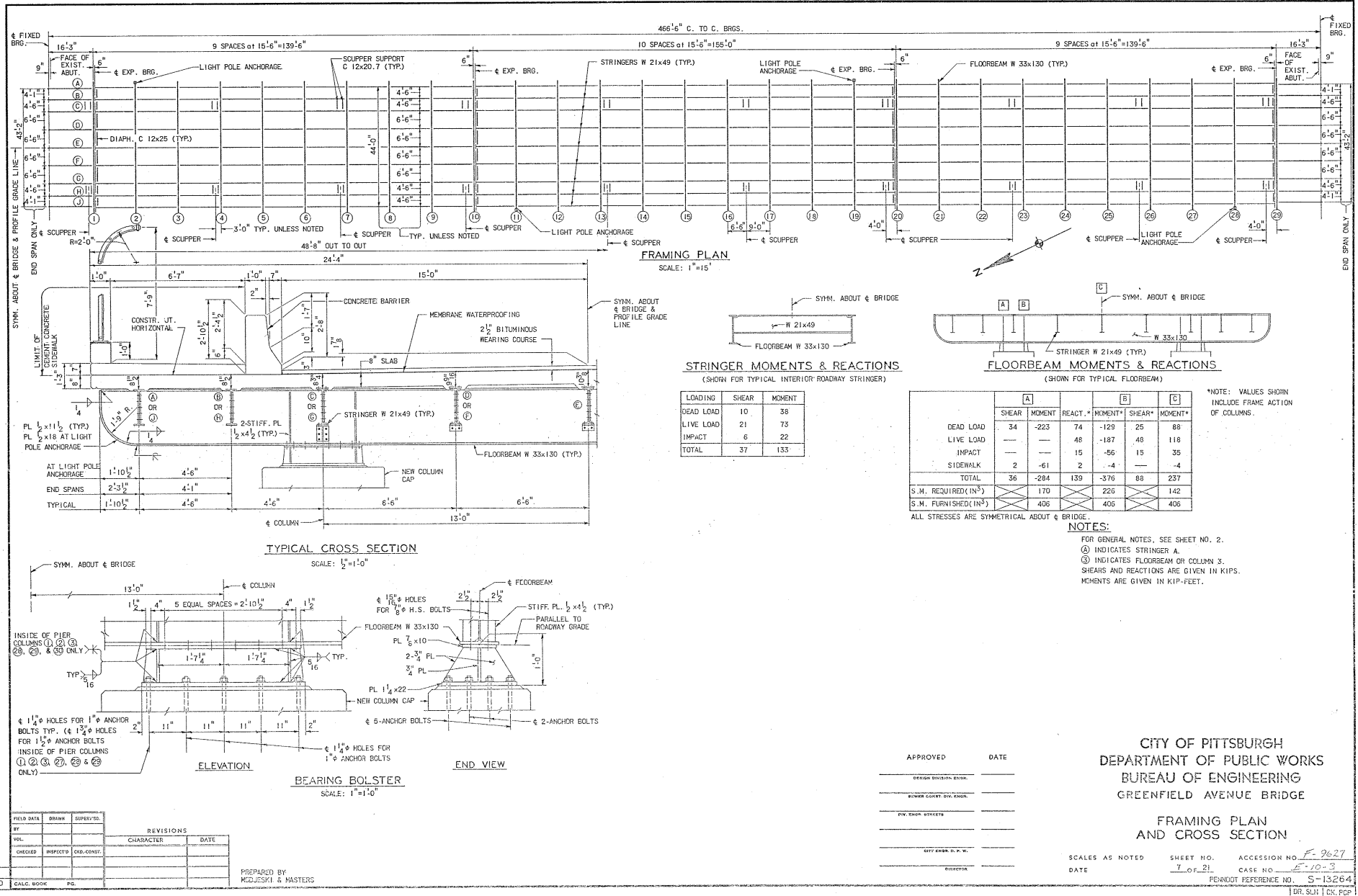
COLUMN DETAILS-3

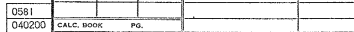
ACCESSION NO. F-9625
CASE NO. E-10-3
ENDDOT REFERENCE NO. S-13264
DR. SLH CK. OAH

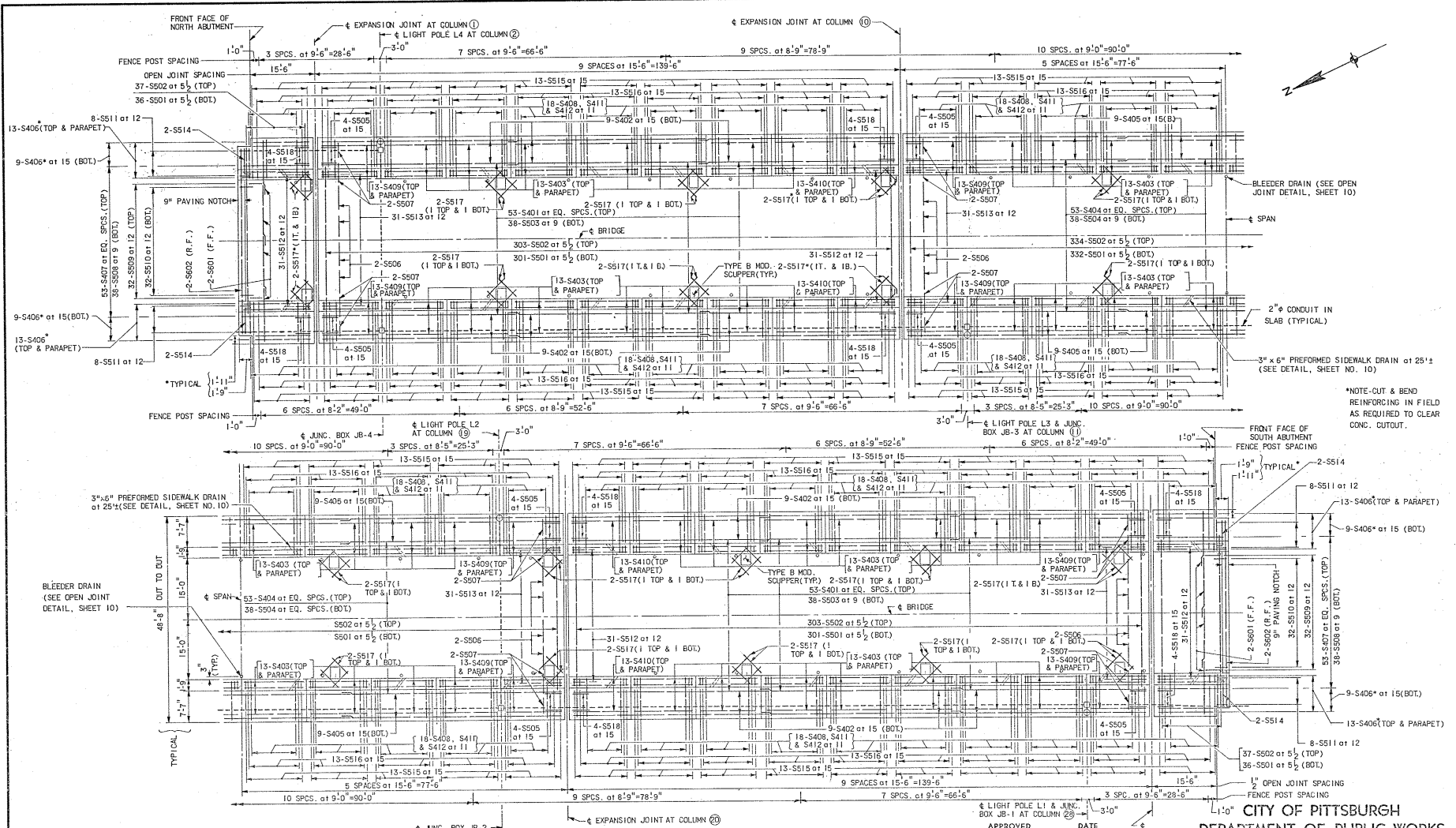
COLUMN BAR SCHEDULE

MARK	NO.	SIZE	LENGTH	TYPE	A	B	MARK	NO.	SIZE	LENGTH	TYPE	A	B
C1101	16	11	14'-7 ^{5/8"}	STR.			C521	28	5	22'-5"	STR.		
C1102	16	11	24'-1"	STR.			C522	28	5	17'-0"	STR.		
C1103	16	11	14'-7 ^{5/8"}	STR.			C523	29	5	12'-5"	STR.		
C1104	16	11	25'-1 ^{1/2"}	STR.			C524	28	5	12'-9"	STR.		
C1105	16	11	25'-1 ^{1/2"}	STR.			C525	29	5	16'-1 ^{1/2"}	STR.		
C1106	16	11	19'-5"	STR.			C526	28	5	21'-2"	STR.		
C1107	16	11	15'-5"	STR.			C527	14	5	5'-8"	STR.		
C1108	16	11	14'-6"	STR.			C528	168	5	16'-0"	STR.		
C1109	16	11	18'-8"	STR.			C529	168	5	15'-0"	STR.		
C1110	16	11	23'-10"	STR.			C530	108	5	14'-10"	STR.		
C1111	16	11	25'-1"	STR.			C531	108	5	13'-11"	STR.		
C1112	16	11	19'-8"	STR.			C532	232	5	15'-6"	STR.		
C1113	16	11	15'-5"	STR.									
C1114	16	11	15'-5"	STR.									
C1115	16	11	19'-9"	STR.			C401	32	4	7'-9"	1	2'-4"	1'-2"
C1116	16	11	23'-10"	STR.			C402	16	4	8'-1"	1	2'-8"	1'-2"
C1117	96	11	19'-7"	STR.			C403	12	4	11'-5"	1	3'-0"	2'-4"
C1118	96	11	18'-7"	STR.			C404	6	4	11'-9"	1	3'-0"	2'-6"
							C405	48	4	5'-8"	STR.		
							C406	100	4	7'-9"	1	2'-4"	1'-2"
C901	16	9	17'-5"	STR.			C407	68	4	7'-5"	1	2'-8"	1'-2"
C902	16	9	11'-5"	STR.			C408	44	4	7'-1"	1	2'-0"	1'-2"
C903	16	9	6'-7"	STR.			C409	12	4	11'-5"	1	3'-0"	2'-4"
C904	16	9	5'-8"	STR.			C410	12	4	11'-1"	1	3'-0"	2'-2"
C905	16	9	10'-0"	STR.			C411	12	4	10'-9"	1	3'-0"	2'-0"
C906	16	9	15'-10"	STR.			C412	212	4	5'-8"	STR.		
C907	16	9	14'-8"	STR.			C413	68	4	6'-9"	1	1'-0"	1'-2"
C908	8	9	14'-5"	STR.			C414	68	4	5'-8"	STR.		
C909	16	9	17'-8"	STR.			C415	12	4	12'-5"	1	4'-0"	1'-0"
C910	8	9	14'-5"	STR.			C416	18	4	7'-1"	1	1'-8"	1'-0"
							C417	180	4	8'-5"	1	2'-8"	1'-2"
							C418	44	4	8'-1"	1	2'-6"	1'-2"
							C419	88	4	7'-9"	1	2'-4"	1'-2"
C501	28	5	17'-5"	STR.			C420	12	4	12'-1 ^{1/2"}	1	3'-0"	2'-8"
C502	28	5	11'-5"	STR.			C421	6	4	11'-9"	1	3'-0"	2'-6"
C503	28	5	6'-7"	STR.			C422	9	4	11'-5"	1	3'-0"	2'-4"
C504	28	5	5'-8"	STR.			C423	312	4	5'-8"	STR.		
C505	28	5	10'-0"	STR.			C424	236	4	8'-1"	1	2'-6"	1'-2"
C506	28	5	15'-10"	STR.			C425	312	4	7'-9"	1	2'-4"	1'-2"
C507	28	5	11'-11"	STR.			C426	12	4	11'-5"	1	3'-0"	2'-6"
C508	28	5	21'-4"	STR.			C427	24	4	11'-1 ^{1/2"}	1	3'-0"	2'-4"
C509	29	5	14'-8"	STR.			C428	548	4	5'-8"	STR.		
C510	14	5	12'-11"	STR.			C429	10	4	7'-9"	1	2'-4"	1'-2"
C511	28	5	17'-8"	STR.			C430	3	4	11'-5"	1	3'-0"	2'-4"
C512	26	5	11'-11"	STR.			C431	10	4	5'-8"	STR.		
C513	28	5	21'-5"	STR.			C432	496	4	8'-5"	1	2'-8"	1'-2"
C514	14	5	12'-11"	STR.			C433	496	4	5'-8"	STR.		
C515	14	5	22'-5"	STR.			C434	36	4	2'-5"	2	0'-5"	1'-0"
C516	28	5	17'-0"	STR.			C435	24	4	12'-1 ^{1/2"}	1	3'-0"	2'-8"
C517	28	5	12'-8"	STR.									
C518	28	5	11'-5"	STR.									
C519	28	5	15'-11"	STR.									
C520	28	5	21'-2"	STR.									









NOTES:

FOR GENERAL NOTES, SEE SHEET NO. 2.
WORK THIS SHEET WITH DECK DETAILS, SHEET NO. 10.
F.F. DENOTES FRONT FACE.
R.F. DENOTES REAR FACE.

APPROVED _____ DATE _____

DESIGN DIVISION ENGINEER _____

SEVEN DIVISION ENGINEER _____

DIV. ENGINEER _____

CITY ENGINEER _____

DISTRICT _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

SLAB PLAN

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

SHEET NO. 9 OF 21

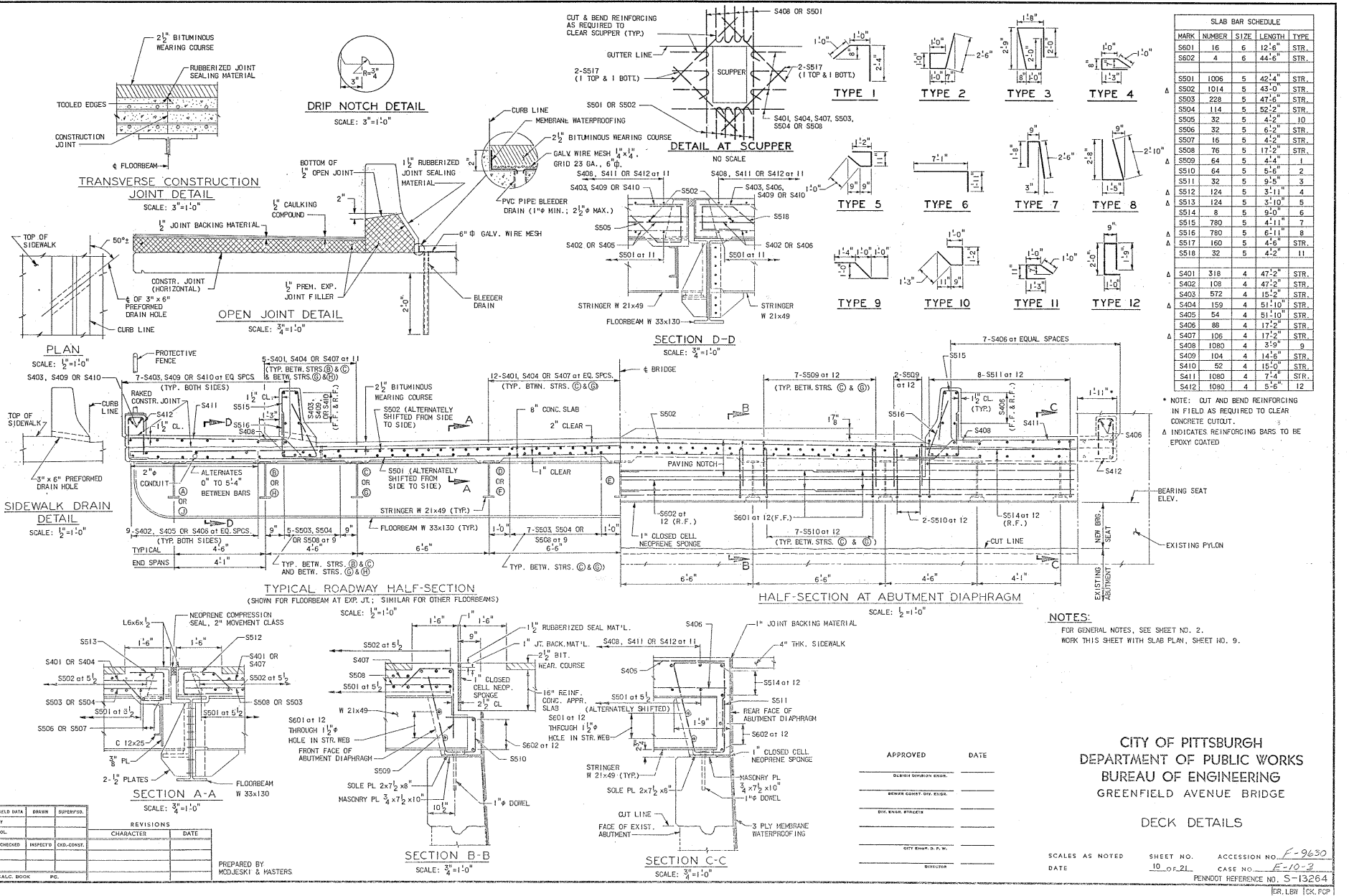
ACCESSION NO. F-9629

CASE NO. F-10-3

PERIODIC REFERENCE NO. S-13264

DR. LBN JK. POP

FIELD DATA	REVISIONS
BY	CHARACTER
CHKD	DATE
INSPECTED	
CONSTR.	
PREPARED BY	
MODJESKI & MASTERS	
0581	
0402	
CALC. BOOK	
PG.	



CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

DECK DETAILS

APPROVED _____ DATE _____

DRAWN BY _____

CHECKED BY _____

CITY ENGINEER _____

DESIGNER _____

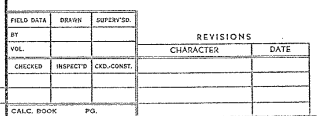
SCALES AS NOTED
SHEET NO. 10 OF 21
ACCESSION NO. F-9630
CASE NO. F-10-2
PENNDOT REFERENCE NO. S-13264
DR. LBN TCC RCP

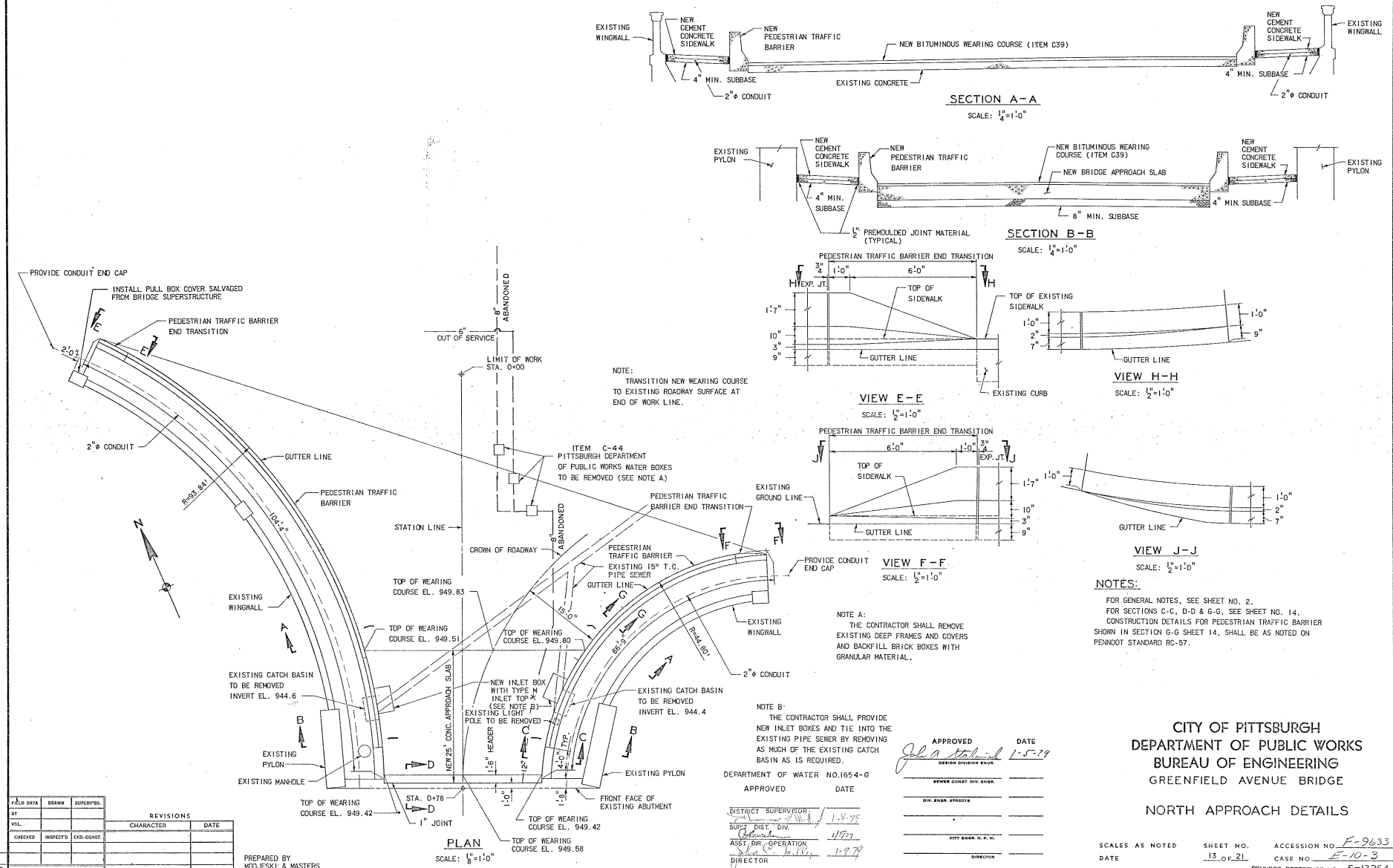
FIELD DATA	DESIGN	SUPERVISOR
BY		
WOL		
CHECKED	INSPECTED	CONSTR.
0581		
0402		

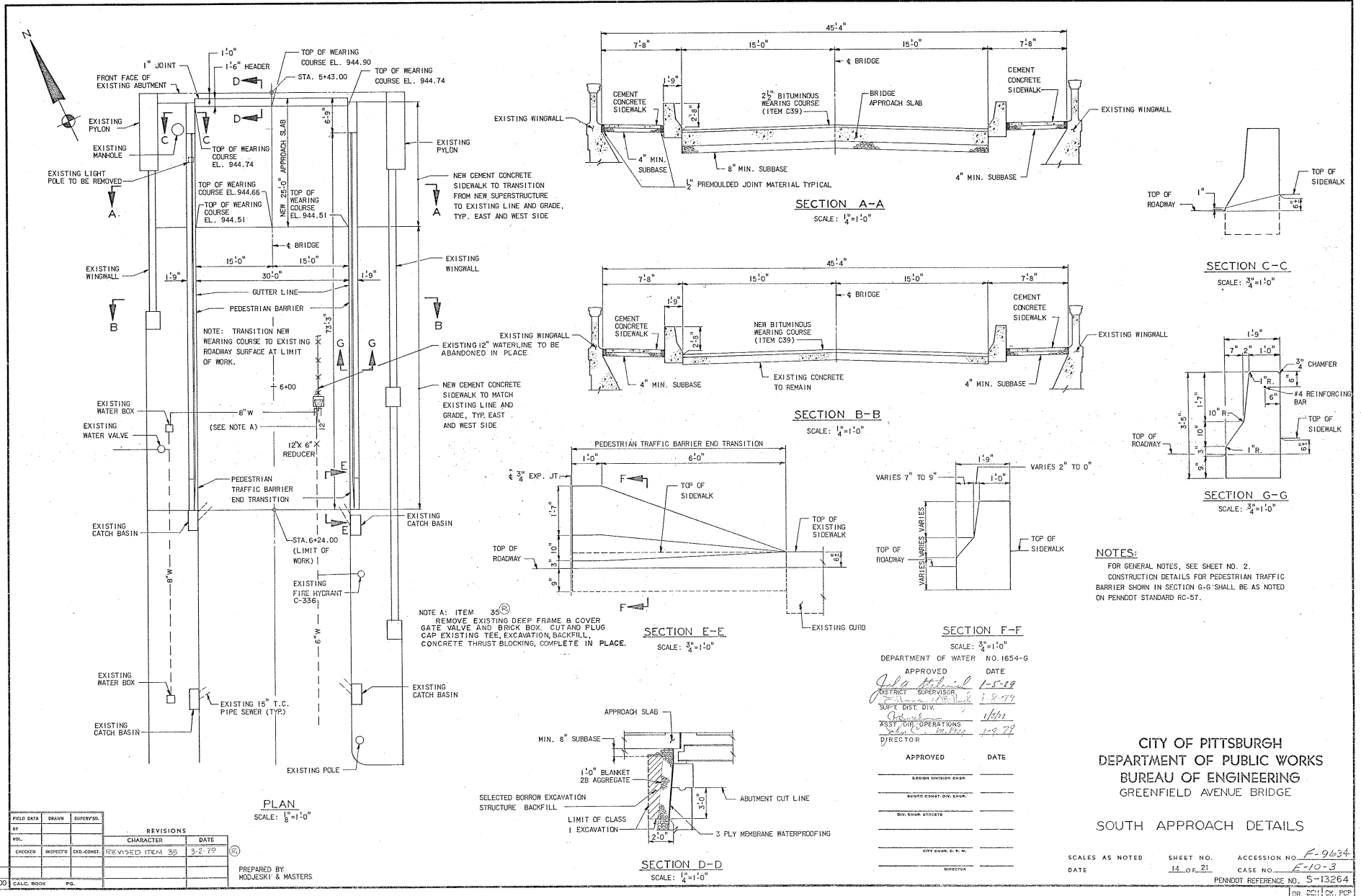
REVISIONS	CHARACTER	DATE

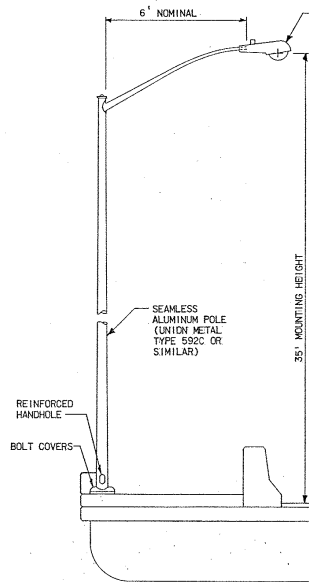
PREPARED BY
MODJESKI & MASTERS

0581
04200

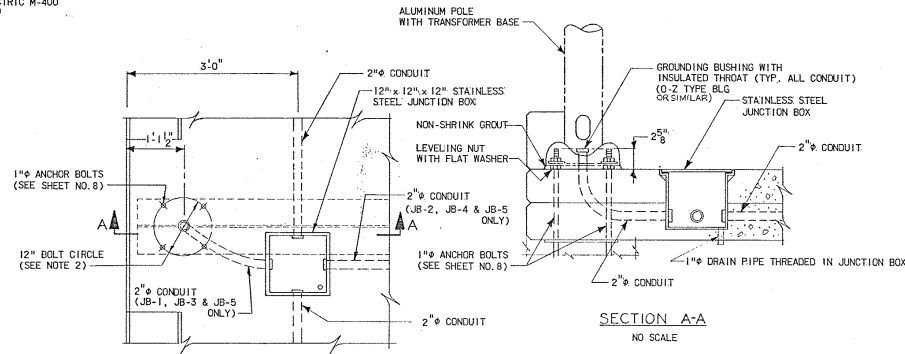




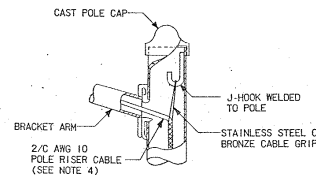




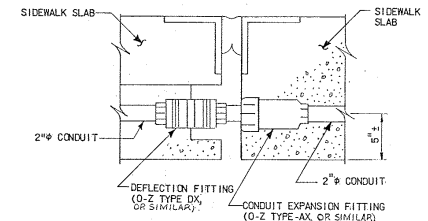
LIGHT POLE DETAIL
SCALE: $\frac{3}{8}''=1'-0''$
TYPICAL 4 PLACES. SEE SHEET NO. 9.



JUNCTION BOX DETAIL
SCALE: $1''=1'-0''$
TYPICAL 4 PLACES. SEE SHEET NO. 9.

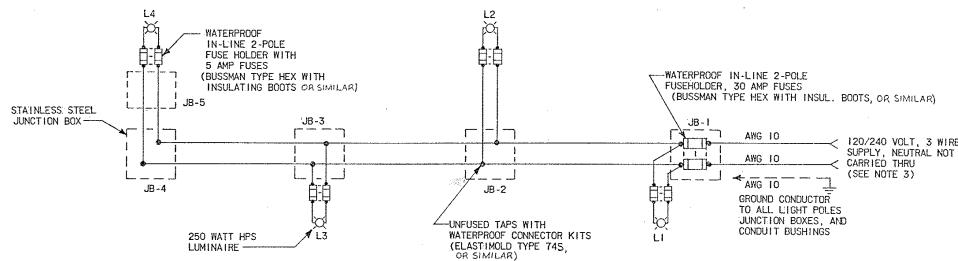


POLE TOP DETAIL
NO SCALE



CONDUIT EXPANSION JOINT DETAIL
SCALE: $2''=1'-0''$

SEE PENNDOT STANDARD DRAWING BC-321 FOR LOCATION OF CONDUITS AND EXPANSION JOINTS. SEE SHEET NO. 9.



BRIDGE LIGHTING CIRCUIT
NO SCALE

INDIVIDUAL LIGHT POLE FUSES TO BE LOCATED IN LIGHT POLE BASES, WITH ADEQUATE WIRE TO PERMIT FUSE REPLACEMENT OUTSIDE OF POLE.

APPROVED _____ DATE _____
DESIGN DIVISION ENGINEER
SEWER CONSTAT DIV. ENGINEER
DIV. ENGINEER STREET
CITY ENGINEER, P. E.
DIRECTOR

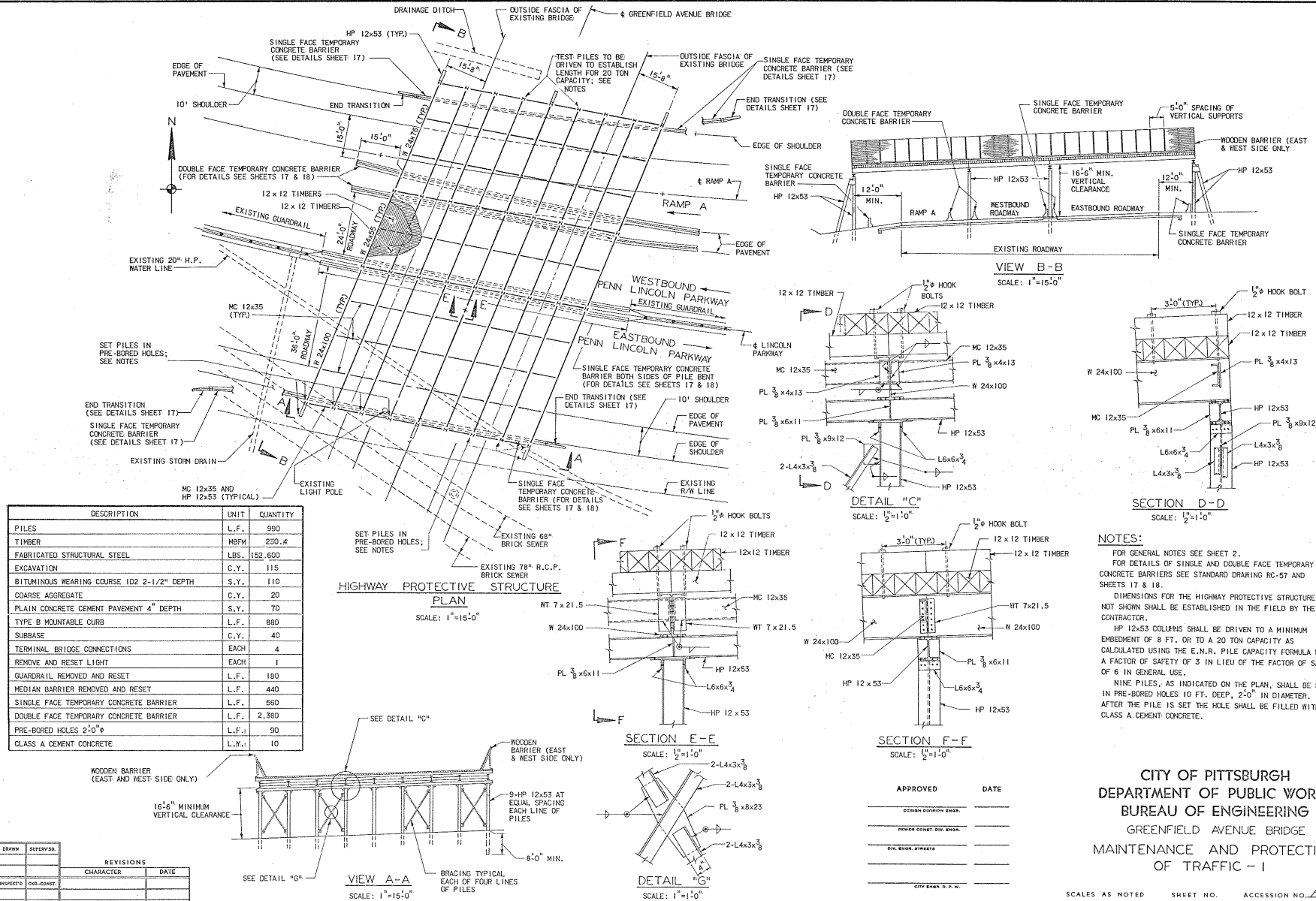
CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

ELECTRICAL DETAILS

SCALES AS NOTED SHEET NO. F-9635
DATE 12-21 CASE NO. E-10-3
PENNDOT REFERENCE NO. S-13264
DR. LVB CK. HAE

FIELD DATA	DESIGN	SUPERVISOR
BY		
CHECKED	INSPECTED	CON-CONST.
0581	040200	
CALC. BOOK	PG.	

PREPARED BY
MODJESKI & MASTERS



0581
04200

FIELD DATA	DRAWN	SUPERVISOR
BY		
CHECKED	INSPECTED	CONTRACTOR

REVISIONS	CHARACTER	DATE

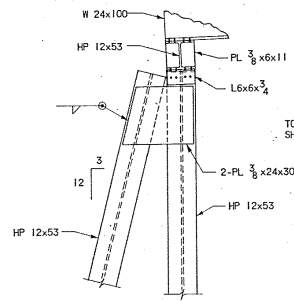
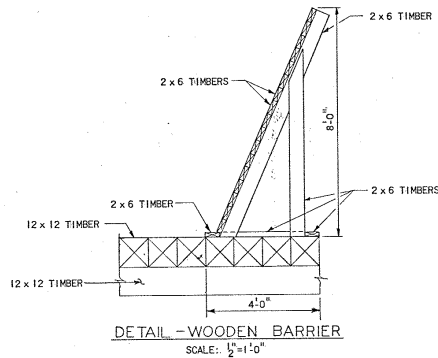
PREPARED BY
MODJESKI & MASTERS

APPROVED	DATE
DESIGN DIVISION ENGR.	
SEWER CONST. DIV. ENGR.	
DIV. ENGR. STREET	
CITY ENGR. D. P. W.	
DIRECTOR	

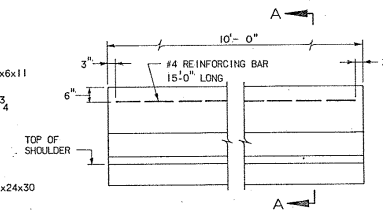
SCALES AS NOTED
DATE

SHEET NO.
16 OF 21

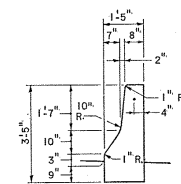
ACCESSION NO. F-9636
CASE NO. E-10-3
PRINTING REFERENCE NO. S-13264
DR. GAS LCK. CRH



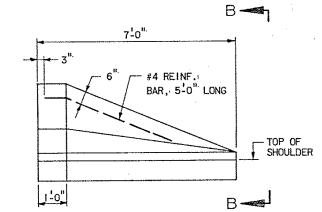
CONNECTION DETAIL AT
TOP OF BATTER PILE
SCALE: $\frac{1}{2}'' = 1'-0''$



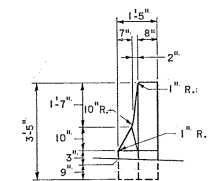
ELEVATION
SCALE: $\frac{1''}{2} = 1'-0''$



SECTION A-A
SCALE: $\frac{1}{2}'' = 1'-0''$



ELEVATION - END TRANSITION
SCALE: $\frac{1''}{2'}$ = $1'-0''$



VIEW B-B
SCALE: $\frac{1''}{2} = 1'-0''$

CONSTRUCTION SIGN TABULATION												
PENNDOT SIGN NO.	SIZE	LEGEND	NUMBER REQUIRED PER STAGE									
			1	2	3	4	5	6	7	8	9	10
W20-1	48"x48"	ROAD CONSTRUCTION	8	11	4	4	11	14	4	4	1	
G20-2	60"x24"	END CONSTRUCTION	3	3	2	2	2	2	2	2	2	
R21-8	48"x48"	WORK AREA	2	3	2			2	1	2		
R4-7-3	36"x48"	KEEP RIGHT	1									
R4-2L	48"x48"	N/A										
R4-2R	48"x48"	N/A		1	1	1			1	1		
W20-5-1	48"x48"	LEFT LANE CLOSED	2	2	1	1			2	1		
W13-1	30"x30"	50 MPH	3	3	3				3	3		
W13-1	30"x30"	45 MPH	2	4	1	2	4		1	2		
W13-1	30"x30"	40 MPH	2	9	3	2	4		7	3		
W13-1	30"x30"	35 MPH	7	1	2	4			2	4		
W13-1	30"x30"	30 MPH	2	8	4				8	4		
W20-5	48"x48"	RIGHT LANE CLOSED		5	4					5	4	
W1-3L	48"x48"	N/A		1	1				1	1		
W6-3	48"x48"	STOP AHEAD							2			1
W3-1	48"x48"	STOP							2			
R11-2	48"x30"	BRIDGE CLOSED								2		
R11-3-2	60"x30"	BRIDGE CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY								4		
SPECIAL	60"x12"	GREENFIELD AVENUE								4		
W30-1-5	SERIES 7C	1 MILE	2	2	2	2	2	2	2	2	2	
W30-1-4	SERIES 7C	1/2 MILE	2	2	2	2	2	2	2	2	2	
W30-1-3	SERIES 7C	1500 FT.	2	2	2	2	2	2	2	2	2	
W30-1-2	SERIES 7C	1000 FT.	3	3	3	4	3	3	3	3	4	
W30-1-1	SERIES 7C	500 FT.	2	3	1	1	2	4	1	1	1	
W30-1-6	SERIES 5C	AHEAD		2					2			
W-20-7	48"x48"	FLAGMAN AHEAD										
W-20-10	48"x48"	BE PREPARED TO STOP							2	2		
W20-1	36"x36"	ROAD CONSTRUCTION	6	10	2	2	10	11	2	11	2	
R6-10	36"x48"	TWO WAY TRAFFIC AHEAD				1	2			1	2	
W20-5	36"x36"	RIGHT LANE CLOSED				3	3			3	3	
W20-5-1	36"x36"	LEFT LANE CLOSED		3	3		3			3	3	
W13-1	24"x24"	50 MPH		2	4		2	4		4	1	
W13-1	24"x24"	45 MPH		2	5		2	4		5	2	
W13-1	24"x24"	40 MPH		2	3		2	2		3	2	
W13-1	24"x24"	35 MPH								2	2	
R4-2R	36"x36"			1	1				1	1		
R4-2L	36"x36"			1	1		1	1		1	1	
W30-1-1	SERIES 5C	500 FT.		1	2				2	2		
W30-1-2	SERIES 5C	1000 FT.		2	2	2	2	2	2	2	2	
W30-1-3	SERIES 5C	1500 FT.		2	2	2	2	2	2	2	2	
W30-1-4	SERIES 5C	1/2 MILE		2	2	2	2	2	2	2	2	
W30-1-5	SERIES 5C	1 MILE		2	2	2	2	2	2	2	2	
	48"x36"	FLASHING ARROW		1	5				1	5	4	
W20-1	48"x48"	ROAD CONSTRUCTION		2	2	2	2	2	2	2	2	
W30-1-7	SERIES 7C	TWO MILES		2	2	2	2	2	2	2	2	

NOTES

FOR GENERAL DETAILS, SEE SHEET 2.
FOR FURTHER DETAILS OF CONCRETE BARRIER AND END TRANSITION
SEE STANDARD DRAWING RC-57 AND SHEET 16.

ALL TRAFFIC CONTROL AND WARNING DEVICES UTILIZED BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF PENNDOT BULLETIN 43; MAINTENANCE AND PROTECTION OF TRAFFIC ON CONSTRUCTION PROJECTS AND PENNDOT PUBLICATION 68; REGULATIONS GOVERNING THE DESIGN, LOCATION AND OPERATION OF ALL TRAFFIC SIGNS, SIGNALS AND MARKINGS ON AND ALONG HIGHWAYS WITHIN THE COMMONWEALTH OF PENNSYLVANIA.

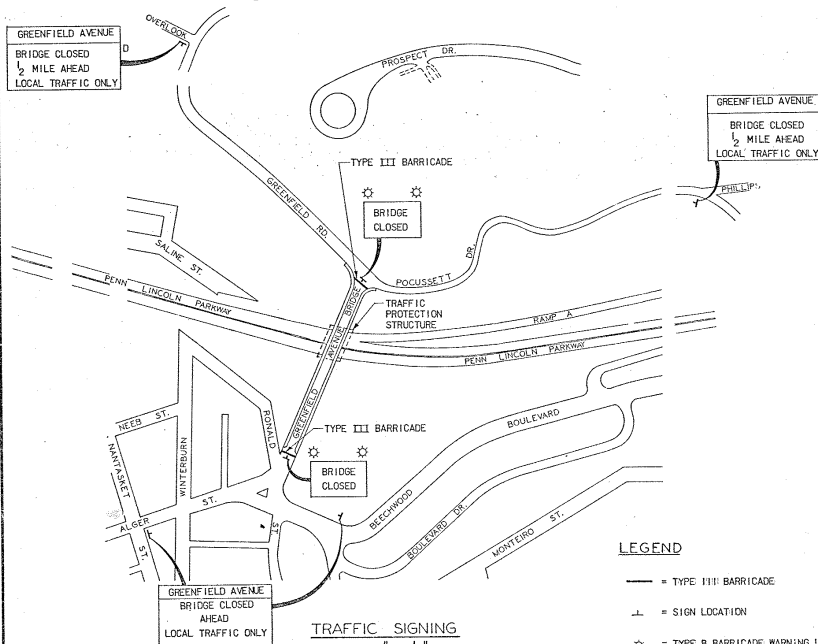
BARRICADES SHALL BE SIMILAR TO PENNDOT TYPE (III).
FLASHING WARNING LIGHTS SHALL BE SIMILAR TO PENNDOT TYPE
B BARRICADE LIGHTS.
PAVEMENT MARKINGS SHALL BE PRESSURE SENSITIVE, TEMPORARY-
PAVEMENT MARKING TAPE WHICH IS PENNDOT APPROVED.

ALL BARRICADE RAILS SHALL BE REFLECTORIZED WITH ALTERNATE STRIPES OF ORANGE AND WHITE PENNDOT APPROVED REFLECTIVE SHEETING MATERIAL, CLASS II MATERIAL.

ALL CONSTRUCTION WARNING SIGNS USED ON THE PARKWAY SHALL BE OF CLASS 11 ORANGE SHEET REFLECTIVE MATERIAL (HIGH INTENSITY SCOT LITE).

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE
MAINTENANCE AND PROTECTION
OF TRAFFIC - 2

SCALES AS NOTED SHEET NO. ACCESSION NO. F-9637
 DATE 17 OF 21 CASE NO. E-10-3
 PEN/LOT REFERENCE NO. S-13264
 DR. GAS CK. CRH



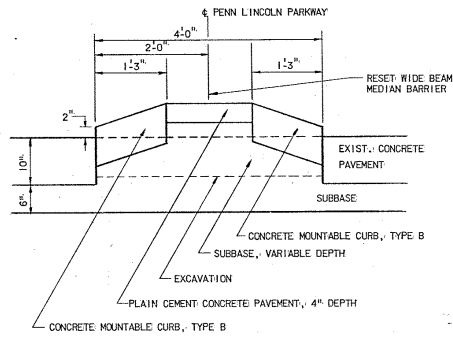
TRAFFIC SIGNING
SCALE: 1"=200'-0"

LEGEND

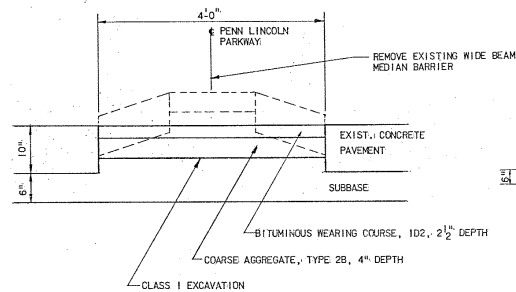
-  = TYPE III BARRICADE
-  = SIGN LOCATION
-  = TYPE B BARRICADE WARNING LIGHT
-  = CONSTRUCTION SIGN WITH PLAN SYMBOL

	FIELD DATA	DRAWN	SUPERVISED.		
	BY			REVISIONS	
	VOL.			CHARACTER	DATE
	CHECKED	INSPECTED	CHK-CONST.		
0581					
04200	CALC. BOOK	Pg.			

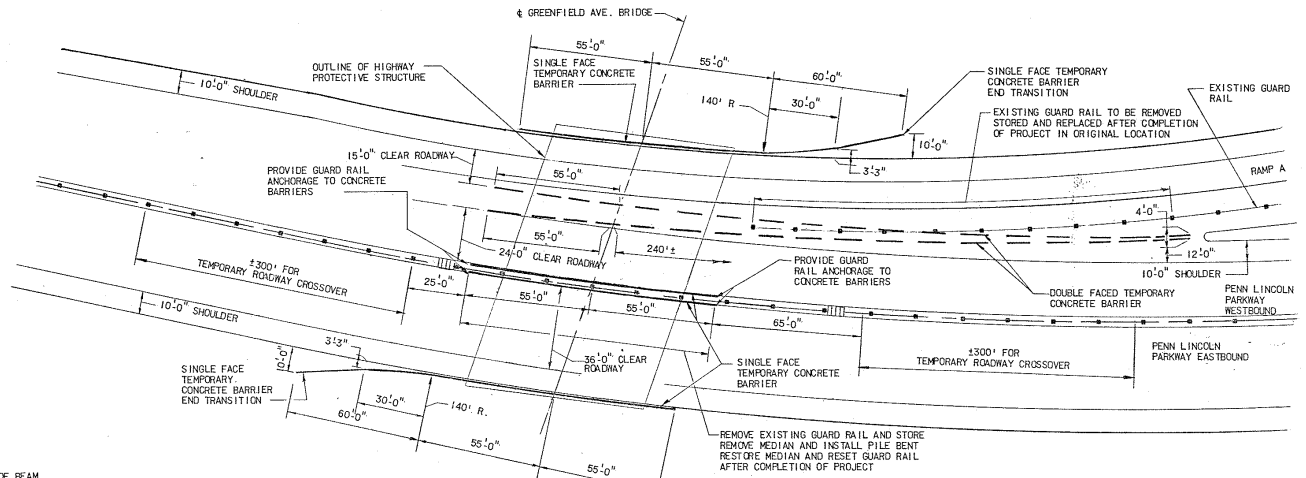
PREPARED BY
MOJESKI & MASTERS



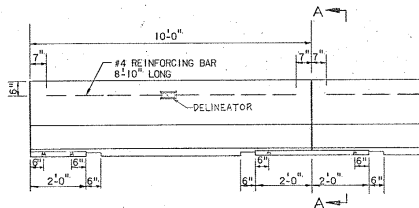
TYPICAL SECTION
RESTORATION OF MEDIAN



TYPICAL SECTION
TEMPORARY MEDIAN CROSSOVER

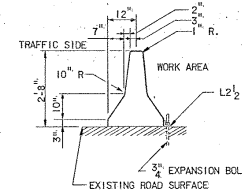


TEMPORARY ROADWAY LAYOUT
SCALE: 1"=25'-0"



ELEVATION

DOUBLE FACE TEMPORARY CONCRETE BARRIER



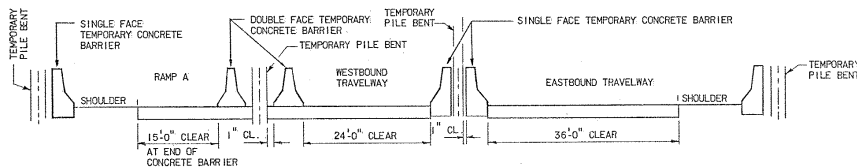
SECTION A-A

NOTES

FOR GENERAL NOTES SEE SHEET 2.
FOR CONSTRUCTION STAGING SEE PROJECT SPECIAL PROVISIONS.
FOR CONSTRUCTION AND MATERIAL SPECIFICATIONS SEE PROJECT SPECIAL PROVISIONS.

TEMPORARY CROSSOVERS

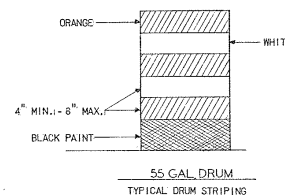
- STAGE 1. REMOVE EXISTING WIDE BEAM MEDIAN BARRIER AND EXISTING CONCRETE MEDIAN. CONSTRUCT TEMPORARY CROSSOVER AND PLACE DOUBLE FACE CONCRETE BARRIER IN MEDIAN OPENING.
- STAGE 2. DOUBLE FACE TEMPORARY CONCRETE BARRIER IN PLACE.
- STAGE 3 & 4. DOUBLE FACE TEMPORARY CONCRETE BARRIER REMOVED FROM MEDIAN OPENINGS.
- STAGE 5. RESET WIDE BEAM MEDIAN BARRIER.
- STAGE 6. REMOVE WIDE BEAM MEDIAN BARRIER FROM MEDIAN OPENING AT COMPLETION OF GREENFIELD AVENUE BRIDGE RECONSTRUCTION.
- STAGE 7 & 8. CROSSOVERS IN USE.
- STAGE 9. RESTORE MEDIAN AND RESET WIDE BEAM MEDIAN BARRIER.



TYPICAL SECTION STAGE 6
WORK ZONE PENN LINCOLN PARKWAY

FIELD DATA	DATE	SUPVISED
BY		
CHECKED	INSPECTED	CMD-CONST.
CALC.	BOOK	PG.

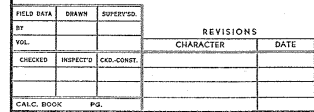
REVISIONS	CHARACTER	DATE

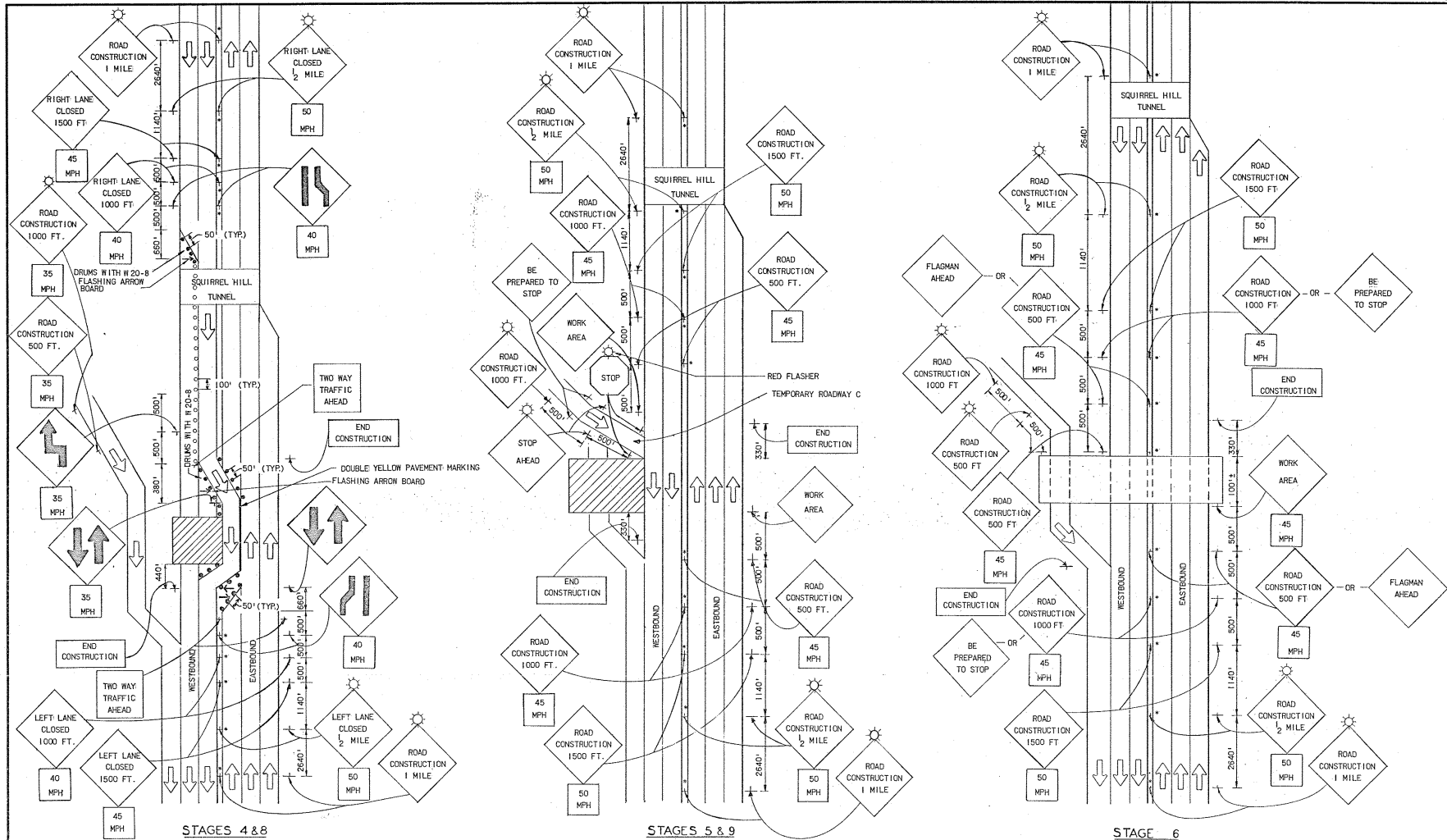


APPROVED	DATE
DESIGN DIVISION ENGR.	
SEVER COUNTY DIV. ENGR.	
DIV. ENGR. STREET	
CITY ENGR. D. P. W.	
DIRECTOR	

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE
MAINTENANCE AND PROTECTION
OF TRAFFIC - 3

SCALES AS NOTED
DATE
SHEET NO. 18 OF 21
CASE NO. E-10-3
ACCESSION NO. F-9638
PENNDOT REFERENCE NO. S-13264





FIELD DATA	DRAWN	SUPERVISED
BY		
CHECKED	INSPECTED	CHG-CONST.
CALC. BOOK	FIG.	

REVISIONS		
CHARACTER	DATE	

APPROVED _____ DATE _____

DESIGN DIVISION ENGINEER _____

SEWER CONSTRUCTION DIVISION ENGINEER _____

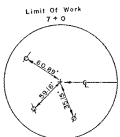
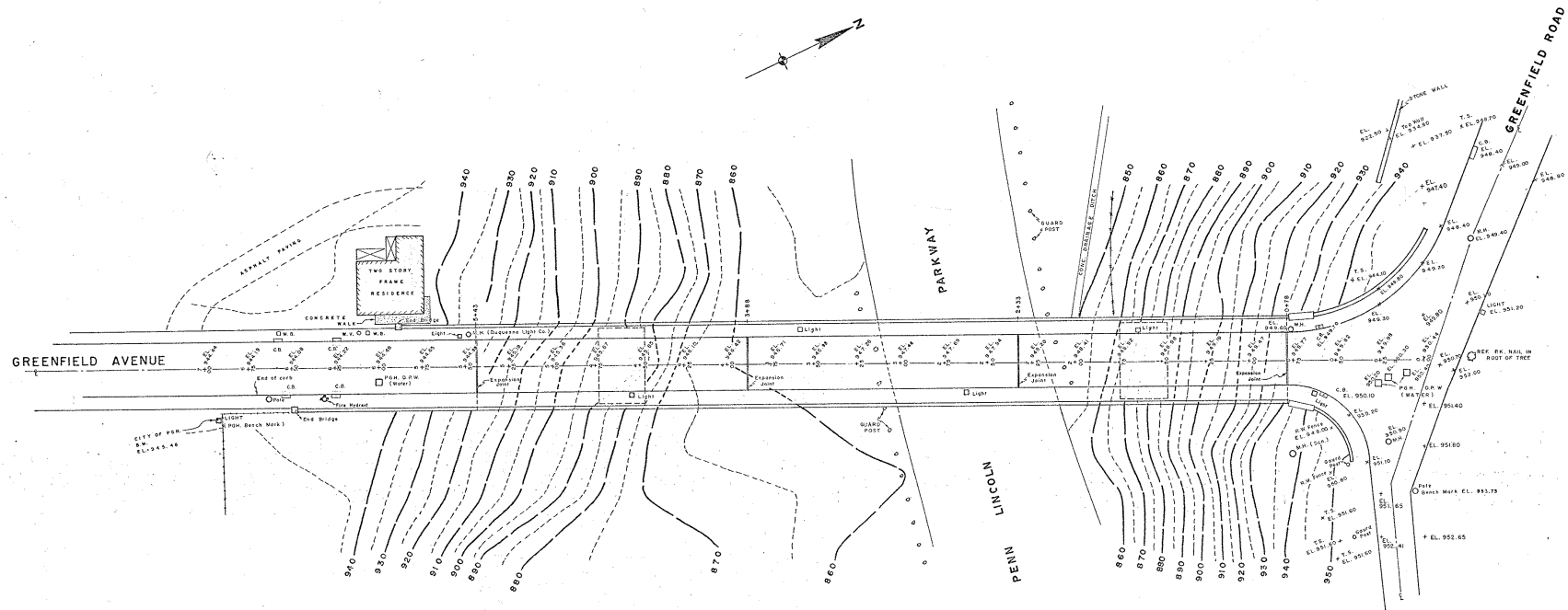
DIVISION ENGINEER _____

CITY ENGINEER, D. P. W. _____

DIRECTOR _____

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE
MAINTENANCE AND PROTECTION
OF TRAFFIC - 5

SCALES AS NOTED SHEET NO. 20 OF 21 ACCESSION NO. F-9640
DATE CASE NO. E-10-3
PENNOT REFERENCE NO. S-13264



NOTE: β = POLE-TACK

T.B.M. CITY OF PITTSBURGH
SQUARE CUT ON LIGHT POST
29.5' LEFT OF 6+54
ELEVATION = 945.48

SITE B.M. "A"
NAIL IN DUG LIGHT CO. POLE NO. 8051
75' LEFT OF 0+0
EL. UNADJUSTED = 953.74
ADJUSTED EL. = 953.73

SITE B.M. "B"
SQUARE CUT UNDER BRIDGE
AT ARCH
7.5' LEFT OF 4+48
EL. = 891.73

SITE B.M. "C"
SQUARE CUT UNDER BRIDGE
AT ARCH
7.0' RIGHT OF 1+71.3
EL. = 891.76



SURVEY WAS PERFORMED AND PLOTTED SEPTEMBER 1976
BY NORTH HILLS ENGINEERING COMPANY

APPROVED DATE

DESIGN DIVISION ENGR.
SENIOR CIVIL DIV. ENGR.
CIV. ENGR. STREETS
CITY ENGR. S.P.W.
DIRECTOR

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

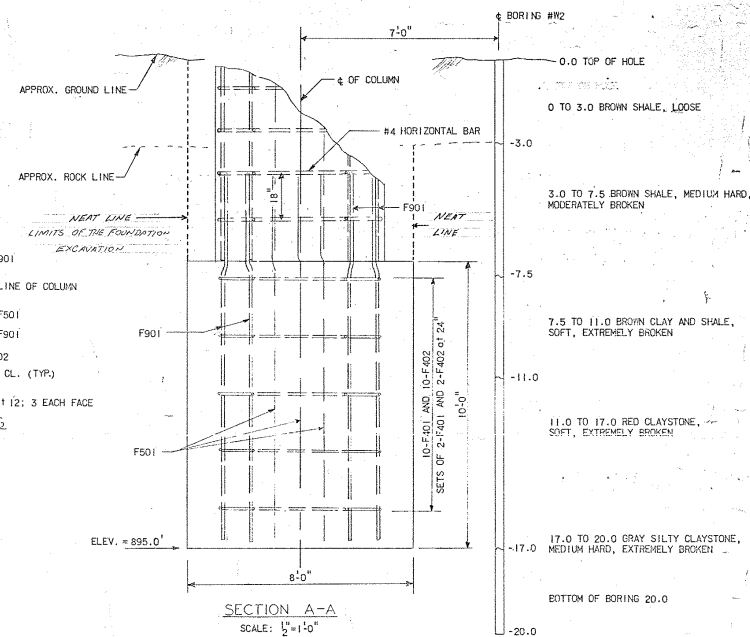
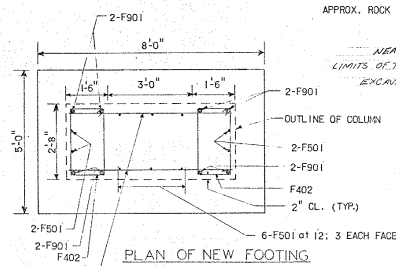
SURVEY INFORMATION

SCALE: 1" = 30'
DATE

SHEET NO. 21 OF 21
CASE NO. E-10-3
PENNDOT REFERENCE NO. S-13264

FIELD DATA	DATE	SUPERVISOR
BY		
VOL.		
CHECKED	INSPECTED	CIB-CONST.
REVISIONS		
CHARACTER	DATE	

0581
040200 CALC. BOOK PG.



SUMMARY OF ADDITIONAL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
1	CEMENT CONCRETE FOOTING	C.Y.	15
2	FOUNDATION EXCAVATION	C.Y.	27
3	REINFORCING BARS	LBS.	655

NEAT LINES -
LIMITS OF THE
FOUNDATION
EXCAVATION
NEW FOOTING

NOTE

FOOTING SHALL BE
SOCKETED INTO SOUND
ROCK.

FOOTING ELEVATION
SCALE: $\frac{1}{4}'' = 1'-0''$

NEW FOOTING BAR SCHEDULE

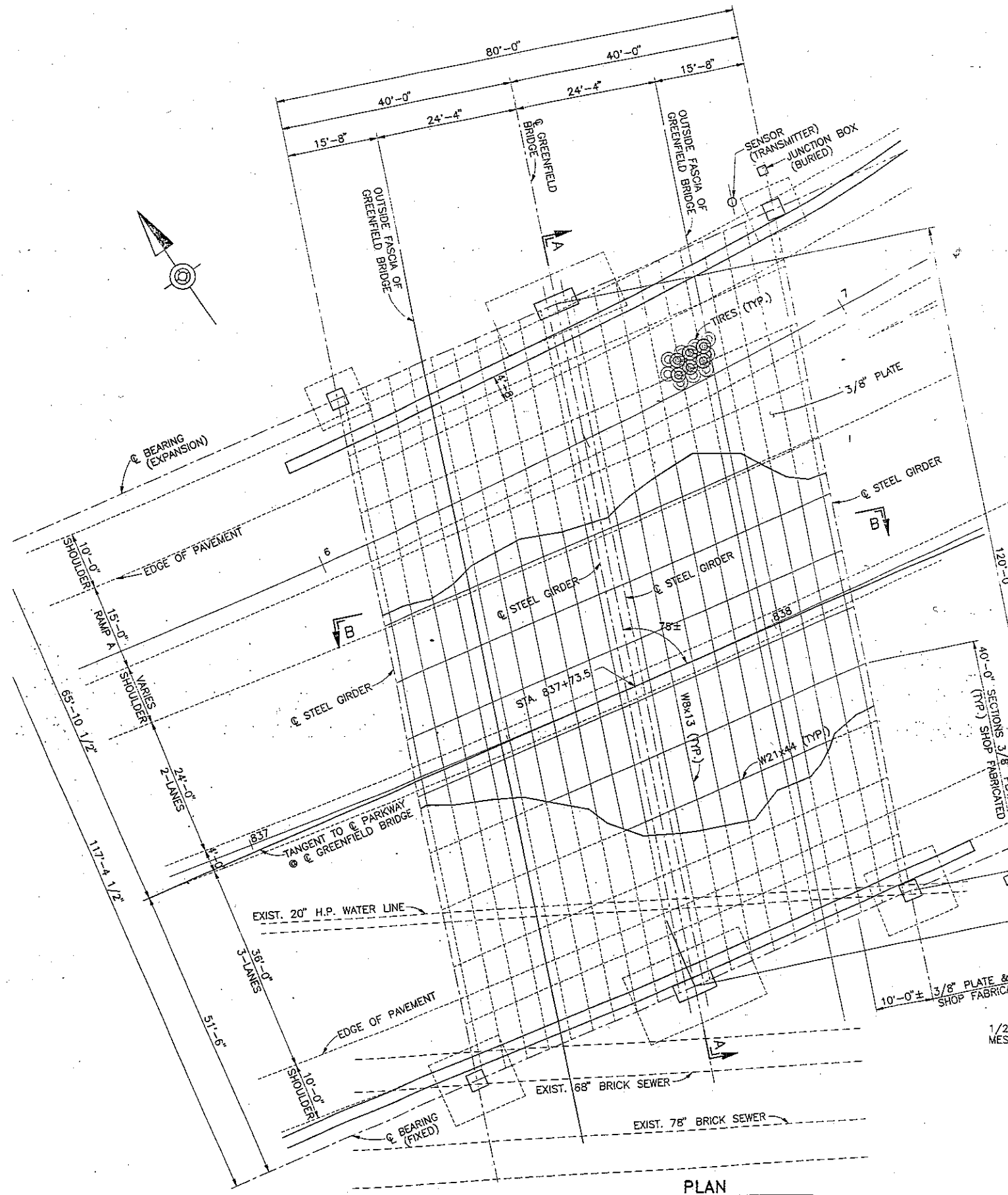
MARK	NO.	SIZE	LENGTH	TYPE
F901	8	9	15-0"	STR.
F501	10	5	15-0"	STR.
F401	10	4	5-8"	STR.
F402	10	4	7-9"	I

APPROVED	DATE
<i>Robert R. H. H.</i> Bridge, "SECOND DIVISION ENGR."	2/1/74
BRIDGE CONST. DIV. ENGR.	
DIV. ENGR. STREET	
<i>Phil W. H. H.</i>	2/1/74
<i>Phil W. H. H.</i>	2/1/74
CITY ENGR. D. P. W.	2/1/74
Signature	

CITY OF PITTSBURGH
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GREENFIELD AVENUE BRIDGE

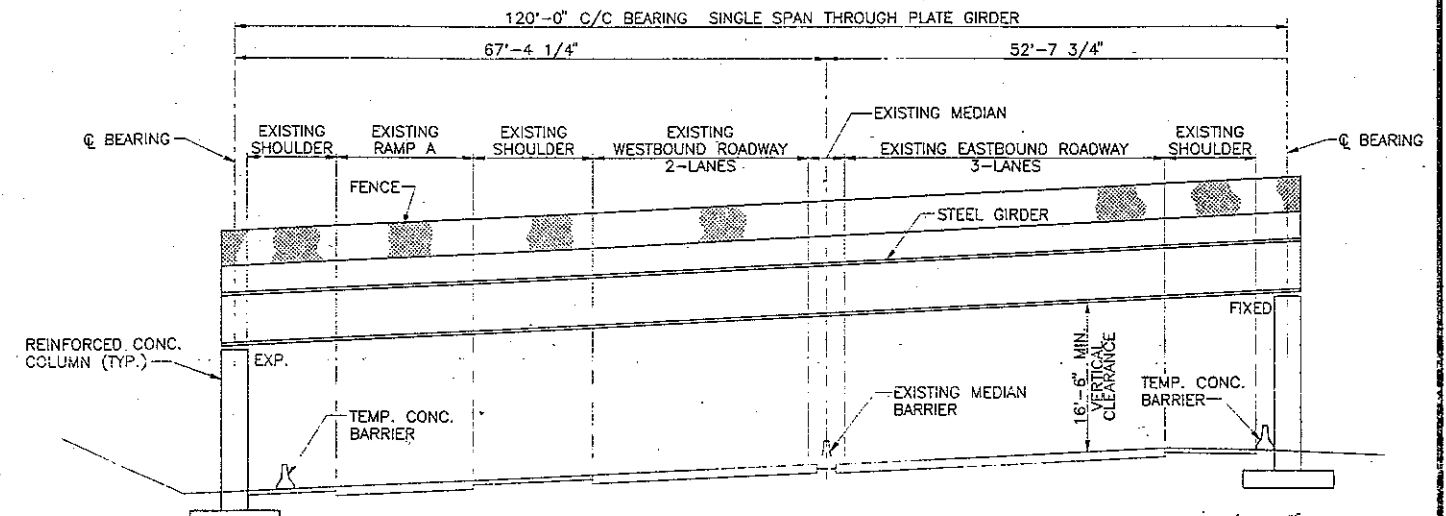
REVISD FOOTING-COLUMN W-2

SCALES AS NOTED SHEET NO. ACCESSION NO. F-9641A
DATE FEB. 6, 1981 OF CASE NO. E-10-3

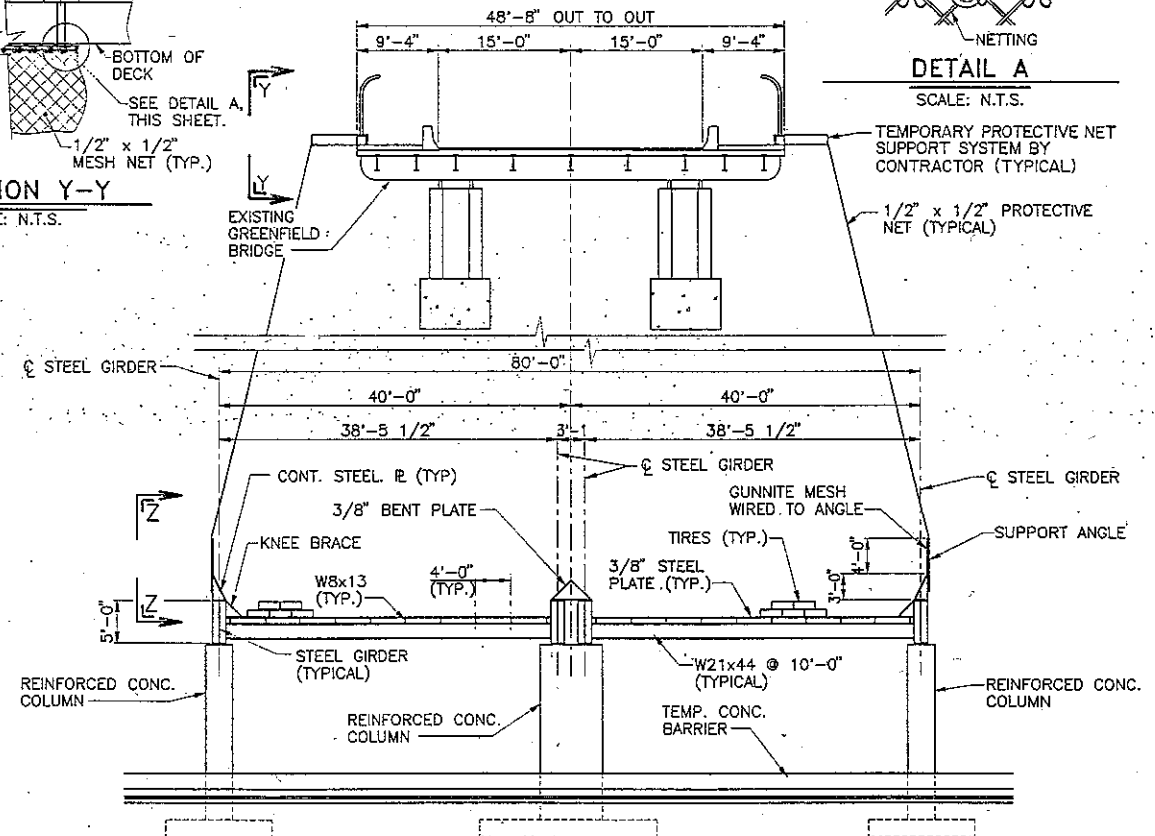
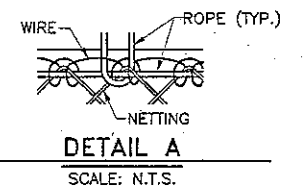
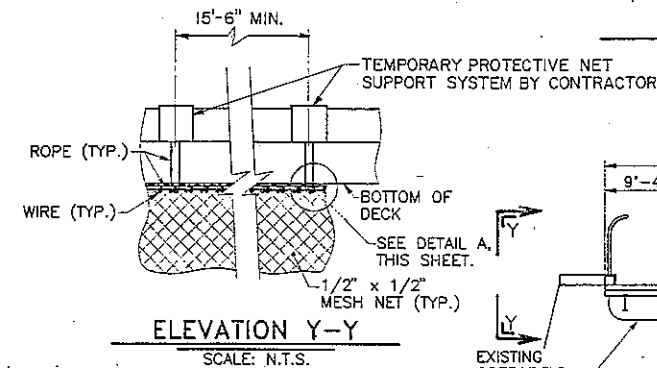


PLAN
SCALE: 1" = 10'-0"

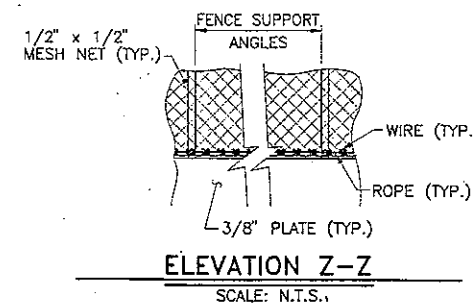
- NETTING NOTES:
1. PASS ROPE THROUGH ENTIRE LENGTH OF NETTING TOP AND BOTTOM.
 2. SECURE EACH MESH WITH DOUBLE HITCHES TO PROPERLY SPACE MESHES.
 3. ATTACH NETTING TO EACH FENCE POST ON GREENFIELD BRIDGE.



SECTION A-A
SCALE: 1" = 10'-0"



SECTION B-B
SCALE: 1" = 10'-0"



STEEL GIRDER DETAILS	BC-753	07-01-93
REINFORCEMENT BAR FABRICATION DETAILS	BC-736	07-01-93
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11	06-30-90
DESCRIPTION	DWG. NO.	APP. DATE

JWN	SUPERVISOR
P.	P.C.P.
CTO	CKD.-CONST.
REVISIONS	
CHARACTER	DATE

CITY OF PITTSBURGH
DEPARTMENT OF ENGINEERING
AND CONSTRUCTION
D.E.C. PROJECT NO. 90206
GREENFIELD BRIDGE
REHABILITATION DESIGN
GENERAL PLAN AND ELEVATION
PROTECTIVE STRUCTURE
SCALE: AS NOTED
SHEET NO.
ACCESSION NO.

ITEM 8120 0001 TEMPORARY PROTECTIVE STRUCTURE, AS DESIGNED (For Information Only)					
DESCRIPTION	PIER (EXPANSION)	PIER (FIXED)	SUPERSTR.	TOTAL	UNIT
CLASS 3 EXCAVATION	51	84		135	CY
CLASS A CEMENT CONCRETE	76	103		179	CY
REINFORCEMENT BARS	10595	11784		22379	LB
BEARING DEVICE - FIXED		4		4	EA
BEARING DEVICE - EXPANSION	4			4	EA
FABRICATED STRUCTURAL STEEL			415,193	415,193	LB

TEMPORARY PROTECTIVE STRUCTURE GENERAL NOTES

MATERIALS AND WORKMANSHIP SPECIFICATION: PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408/90, 1988 AASHTO/AWS BRIDGE WELDING CODE, INCLUDING CURRENT INTERMS; AND CONTRACT SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: DESIGN DIVISION I OF 1989 AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", (INCLUDING 1991 INTERIM SPECIFICATIONS) AND AS SUPPLEMENTED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION DESIGN MANUAL PART 4, STRUCTURES (INCLUDING SEPTEMBER, 1991 REVISIONS).

DESIGN IS IN ACCORDANCE WITH THE STRENGTH DESIGN METHOD (LOAD FACTOR DESIGN.)

NO LIVE LOAD IS CONSIDERED IN THIS DESIGN. THE IMPACT FORCE OF THE FALLING OBJECT IS TREATED AS A DEAD LOAD. THE DESIGN IS BASED ON A VOLUME OF CONCRETE 1.5 FT³ WHICH IS EQUIVELANT TO 225# WEIGHT FALLING FROM 65± TO MINIMUM 24" HEIGHT LAYERS OF RUBBER TIRES.

THE TIRES ARE USED ONLY TO REDUCE THE IMPACT FORCE ON THE TEMPORARY STRUCTURE. PROVIDE NETTING TO STOP THE REBOUNING OBJECTS FROM FALLING TO THE HIGHWAY.

THE CONTRACTOR IS ALLOWED TO DROP A MAXIMUM VOLUME OF CONCRETE 1.5 FT³ (225 POUNDS WEIGHT) FROM A HEIGHT NOT EXCEED 65± FEET.

PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS EXCEPT AS NOTED.

USE CLASS A CEMENT CONCRETE FOR PIERS BELOW BRIDGE SEAT CONSTRUCTION JOINTS AND ALL FOOTINGS.

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT (A615), OR AXLE STEEL (A617). DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS SECTIONAL AREA.

PROVIDE MINIMUM LAP AND EMBEDMENT LENGTHS FOR REINFORCEMENT BARS IN ACCORDANCE WITH CHAPTER 8, PART D, OF THE AASHTO 1989 SPECIFICATIONS FOR HIGHWAY BRIDGES OR 30 DIAMETERS, WHICHEVER IS GREATER.

REMOVE EXISTING FOOTINGS COMPLETELY.

ALL STRUCTURE DIMENSIONS ARE BASED ON A NORMAL TEMPERATURE OF 68° F. (20° C). ALL DIMENSIONS ARE HORIZONTAL UNLESS NOTED OTHERWISE.

PREPARE BRIDGE SEATS FOR PLATE GIRDERS TO A SMOOTH (TROWEL) FINISH TO THE INDICATED BRIDGE SEAT ELEVATION AND GRADE. ADJUST BRIDGE SEATS TO PROVIDE FULL BEARING UNDER EACH BEAM BY GROUTING AS NEEDED AND AS DIRECTED BY THE ENGINEER.

IF GIRDERS CAN BE FABRICATED IN LENGHTS LONGER THAN THE SECTIONS SHOWN ON THE PLANS BY ELIMINATING FIELD SPLICES, FIELD SPLICES MAY BE OMITTED AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR SECURING A HAULING PERMIT. APPROVAL FOR ELIMINATION OF A FIELD SPLICE AT THE SHOP DRAWING STAGE DOES NOT OBLIGATE THE DEPARTMENT TO ISSUE A HAULING PERMIT.

ALL FASTENERS ARE 7/8" H.S. BOLTS EXCEPT AS NOTED.

REAMING OF FIELD SPLICES IS REQUIRED IN THE FABRICATION SHOP.

PROVIDE STRUCTURAL STEEL CONFORMING TO ASTM-A36 DESIGNATION EXCEPT WHEN NOTED OTHERWISE.

MAINTAIN 16'-6" MIN. CLEARANCE OVER I-376 AT ALL POINTS.

PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(k)8.

DO NOT MAKE WELDS BY MANUAL SHIELDED METAL ARC PROCESS FOR PRIMARY GIRDER WELDS SUCH AS FLANGE TO WEB WELDS OR FOR SHOP SPLICES OF WEBS AND FLANGES.

WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.

SET ANCHOR BOLTS TO TEMPLATE OR IN PREFORMED HOLES. DO NOT DRILL UNLESS SPECIFICALLY INDICATED ON PLANS. FILL THE PREFORMED HOLES WITH NONSHRINK GROUT. FILL THE CLEARANCE BETWEEN ANCHOR BOLTS AND HOLES IN MASONARY PLATES WITH APPROVED NONHARDENING CAULKING COMPOUND CONFORMING TO PUBLICATION 408, SECTION 705.8

MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODE, AND INCORPORATE IN THE FINAL WELD. NO OTHER TACK WELDING WILL BE PERMITTED.

DO NOT WELD WHEN SURFACES TO BE WELDED ARE MOIST OR EXPOSED TO RAIN, SNOW, OR WIND, OR WHEN WELDERS ARE EXPOSED TO INCLEMENT CONDITIONS THAT WILL ADVERSELY AFFECT THE QUALITY OF THE WORK.

DO NOT WELD OR BURN WHEN THE TEMPERATURE IS BELOW 0 DEGREES F. PREHEAT AND MAINTAIN THE TEMPERATURE OF THE METAL TO AT LEAST 70 DEGREES F WHEN THE TEMPERATURE OF THE METAL IS BETWEEN 0 DEGREES F AND 30 DEGREES F DURING WELDING OR BURNING. EXTEND THE AREA TO BE HEATED 3" BEYOND THE WELD IN ALL DIRECTIONS.

REMOVE BY APPLICATION OF HEAT ANY MOISTURE PRESENT AT POINT OF WELD. PROVIDE WINDBREAKS FOR PROTECTION FROM DIRECT WIND.

COORDINATE THE REQUIREMENTS FOR PROTECTION AND/OR RELOCATION OF UTILITIES WITH THE UTILITY OWNER PRIOR TO STARTING WORK.

VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK; CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE DEPARTMENT DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN, AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE, AND LOCATION OF ANY UTILITY.

OVER HEIGHT VEHICLE SENSOR, TRANSMITTER AND RECEIVER ARE LOCATED WITHIN THE PROJECT SITE. SENSOR MUST BE OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.

USE EXTREME CAUTION WHEN PREFORMING ANY TYPE OF WORK ADJACENT TO THE TRANSMITTER SENSOR OR RECEIVER.

SPREAD FOOTINGS MAY BE ORDERED BY THE ENGINEER AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.

MAXIMUM ALLOWABLE FOUNDATION PRESSURE = 1.5 TON/SQ.FT.

THE COLUMNS ARE DESIGNED FOR 27 FEET HEIGHT. IF ANY VARIATIONS DURING CONSTRUCTION RESULT IN ADDITIONAL HEIGHT TO THE 27 FEET COLUMNS, A NEW DESIGN IS REQUIRED.

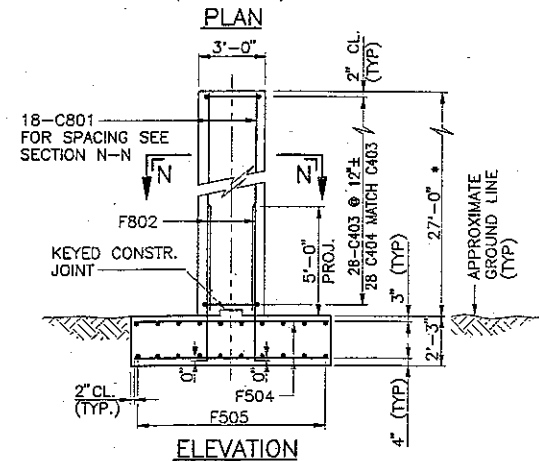
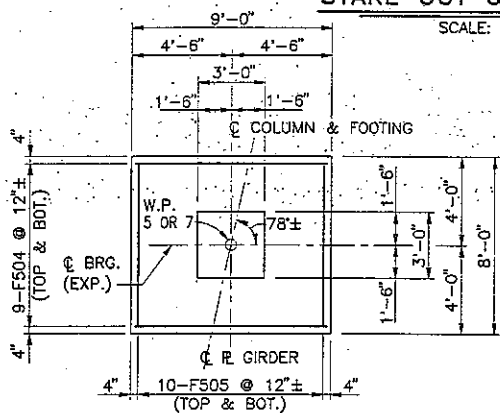
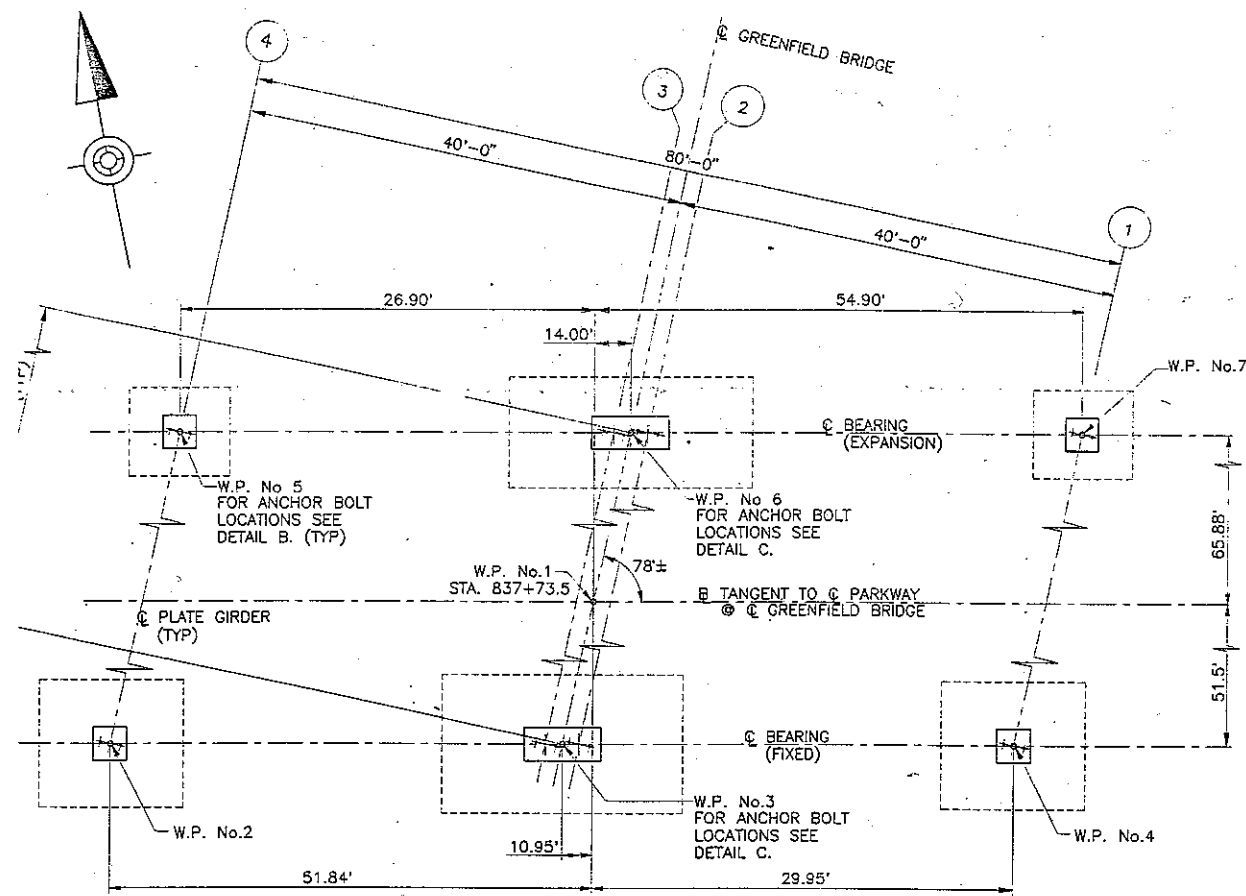
CONTRACTOR SHOULD VERIFY ALL PLAN DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL STEEL.

CITY OF PITTSBURGH
DEPARTMENT OF ENGINEERING
AND CONSTRUCTION

D.E.C. PROJECT NO. 90206
GREENFIELD BRIDGE
REHABILITATION DESIGN
QUANTITIES & GENERAL NOTES
PROTECTIVE STRUCTURE

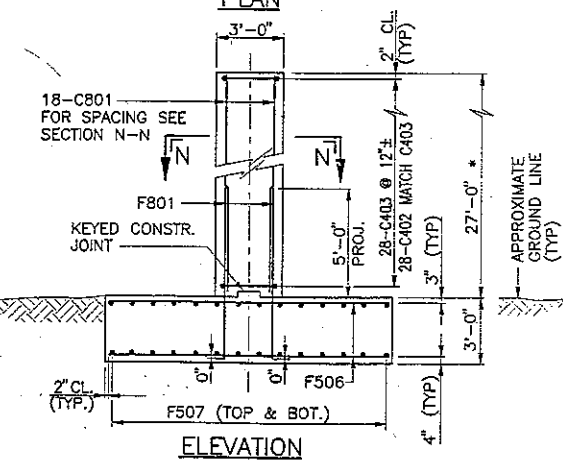
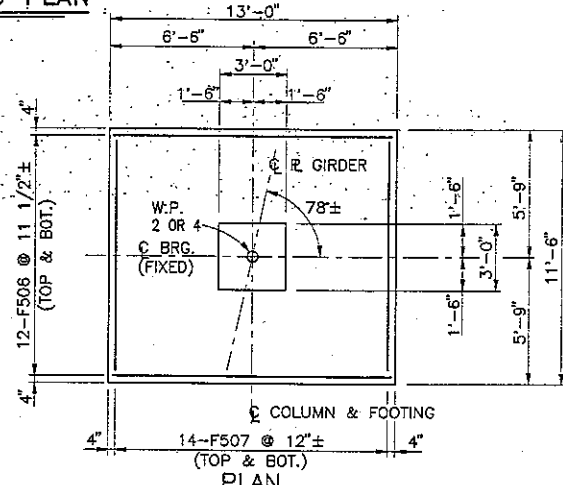
SCALE: N/A SHEET NO. ACCESSION NO.

RAWN	SUPERV'SD		
J.P.	P.C.P.		
		REVISIONS	
PECT'D	CKD.-CONST	CHARACTER	DATE

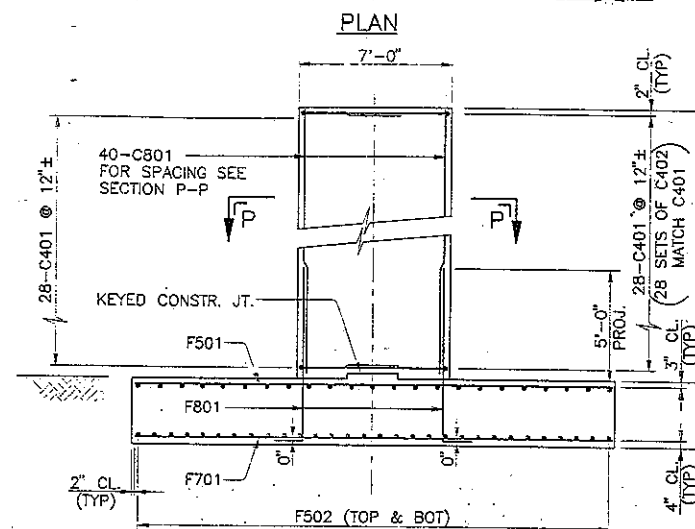
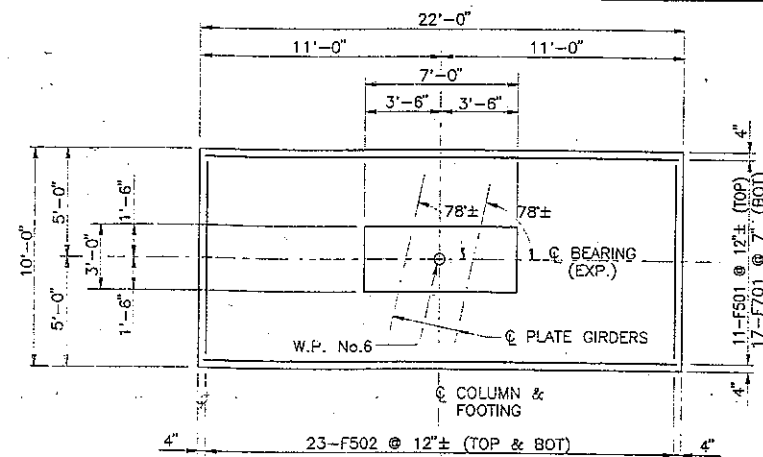


MAX. DESIGN PRESSURE = 1.44 T.S.F.
ALLOWABLE BEARING PRESSURE = 1.5 T.S.F.
* 27'-0" IS THE MAX. DESIGN HEIGHT

REVISIONS	DATE
CHARACTER	
DATE	

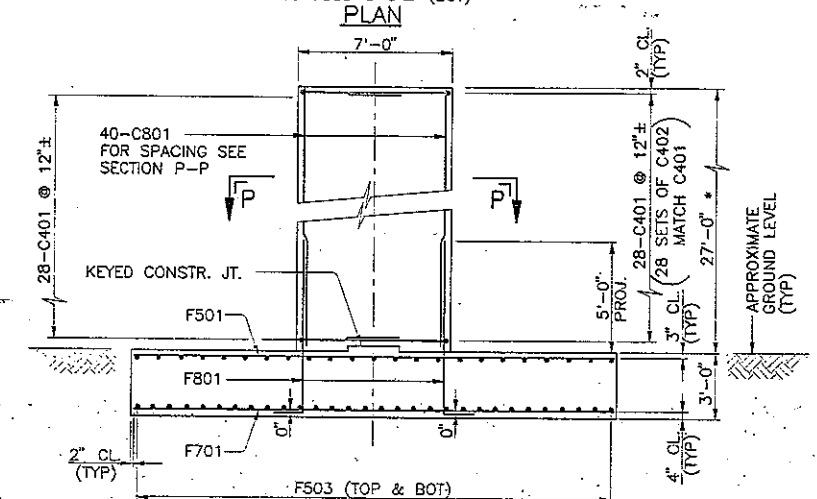
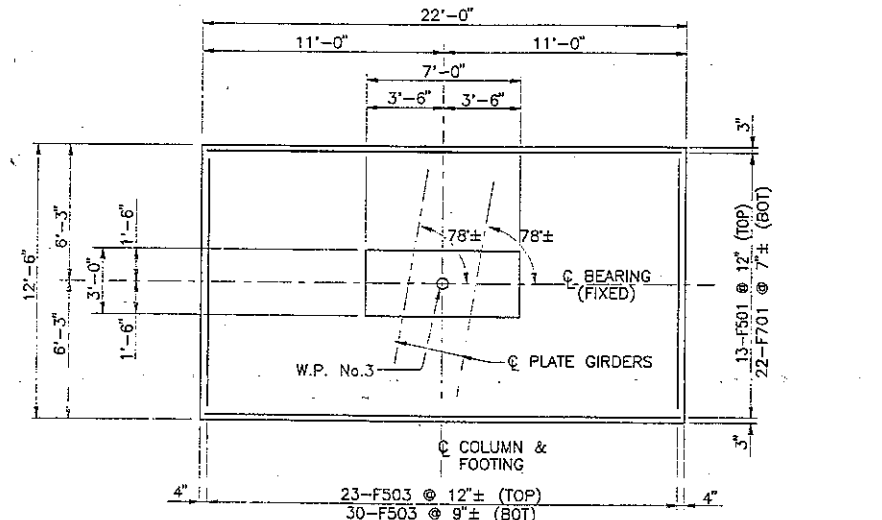
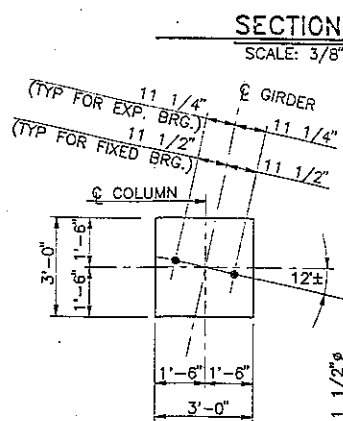
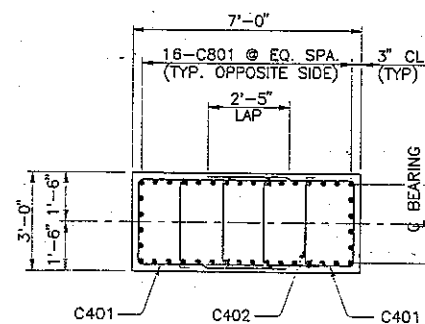


MAX. DESIGN PRESSURE = 1.0 T.S.F.
ALLOWABLE BEARING PRESSURE = 1.5 T.S.F.
* 27'-0" IS THE MAX. DESIGN HEIGHT



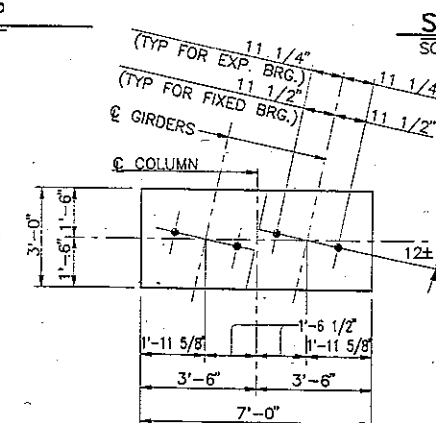
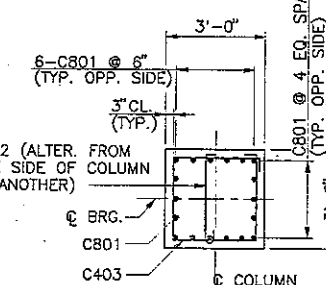
MAX. DESIGN PRESSURE = 1.0 TSF
ALLOWABLE BEARING PRESSURE = 1.5 TSF
* 27'-0" IS THE MAX. DESIGN HEIGHT

EXPANSION INTERIOR COLUMN
SCALE: 1/4" = 1'-0"



MAX. DESIGN PRESSURE = 1.22 TSF
ALLOWABLE BEARING PRESSURE = 1.5 TSF
* 27'-0" IS THE MAX. DESIGN HEIGHT

FIXED INTERIOR COLUMN
SCALE: 1/4" = 1'-0"



NOTES:

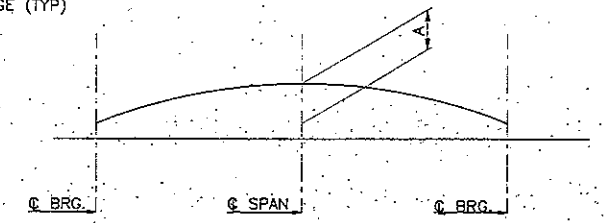
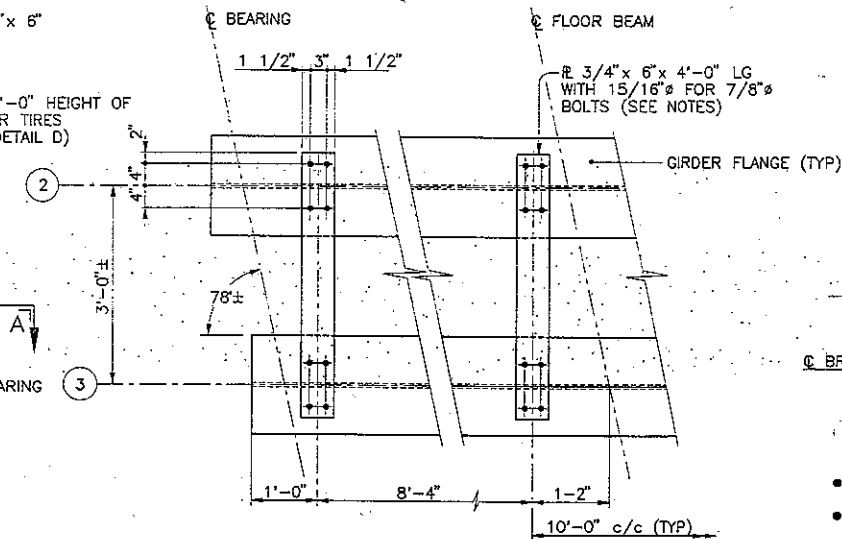
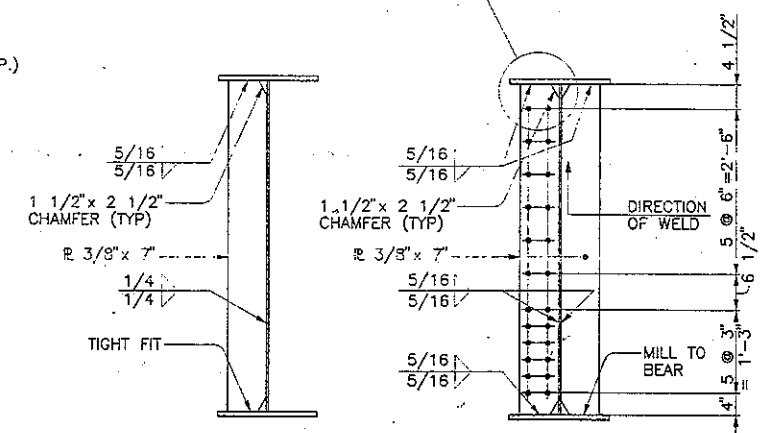
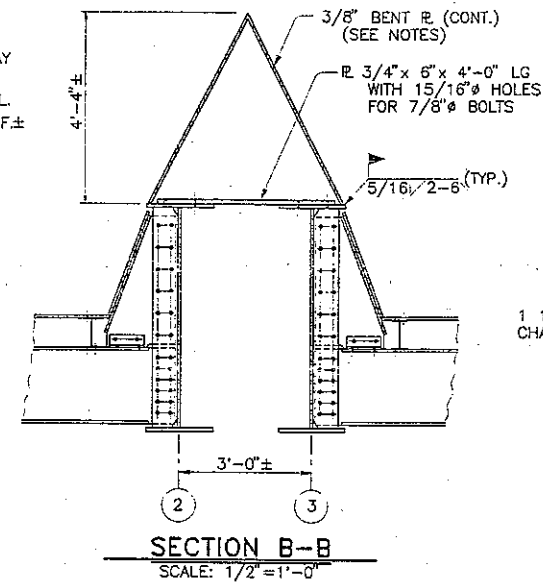
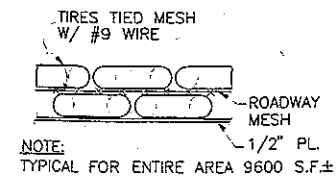
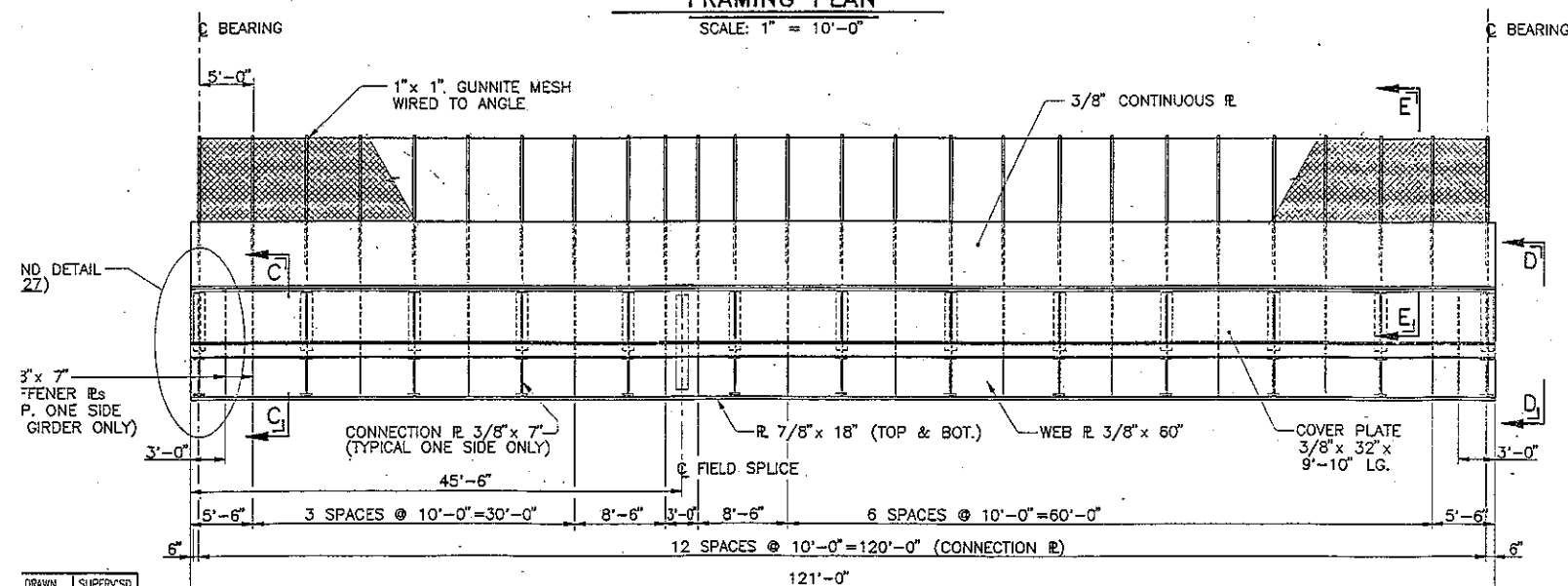
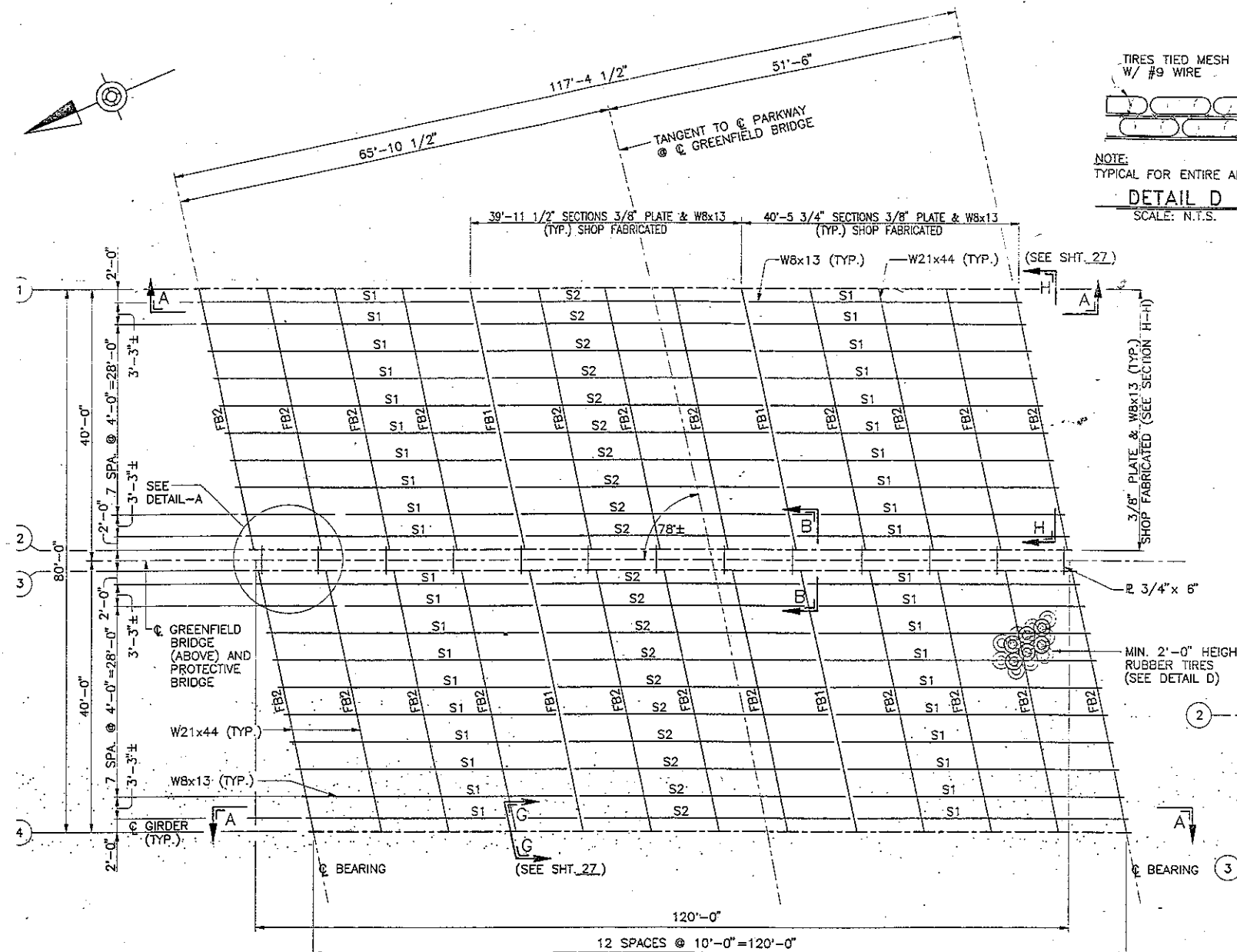
- FOR GENERAL PLAN & ELEVATION, SEE SHT. 23.
- FOR GENERAL NOTES, SEE SHT. 24.
- FOR BEARING PAD DETAILS, SEE SHT. 28.
- FOR ANCHOR BOLT EMBEDDING DETAILS, SEE SHT. 28.
- FOR REBAR SCHEDULE, SEE SHT. 28.

CITY OF PITTSBURGH
DEPARTMENT OF ENGINEERING
AND CONSTRUCTION
D.E.C. PROJECT NO. 90206
GREENFIELD BRIDGE
REHABILITATION DESIGN
PIERS AND FOOTINGS
PROTECTIVE STRUCTURE

SCALE: AS NOTED

SHEET NO.

ACCESSION NO.



- A = ESTIMATED DEAD LOAD CAMBER = 6.98"
- A IS THE THEORETICAL VALUE BASED ON THE ESTIMATED DEAD LOAD WHICH INCLUDES 12 LBS. PER SQUARE FOOT FOR TIRES AND 1 1/2" ADDITIONAL DEAD LOAD WITH WEIGHT DENSITY OF 96 LBS PER CUBIC FOOT. "A" VALUE MAY VARY WITH ACTUAL LOADING CONDITIONS.

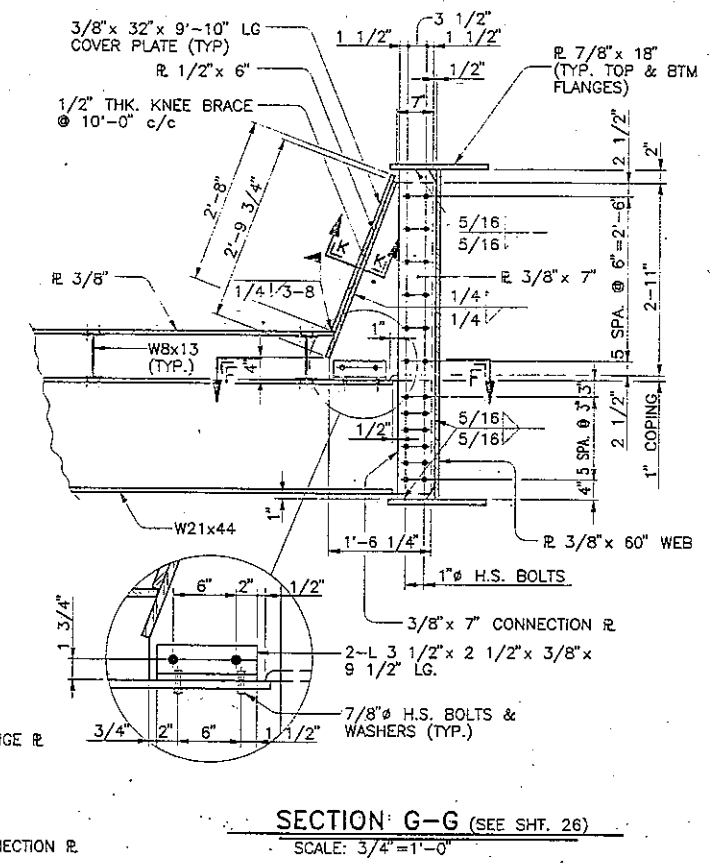
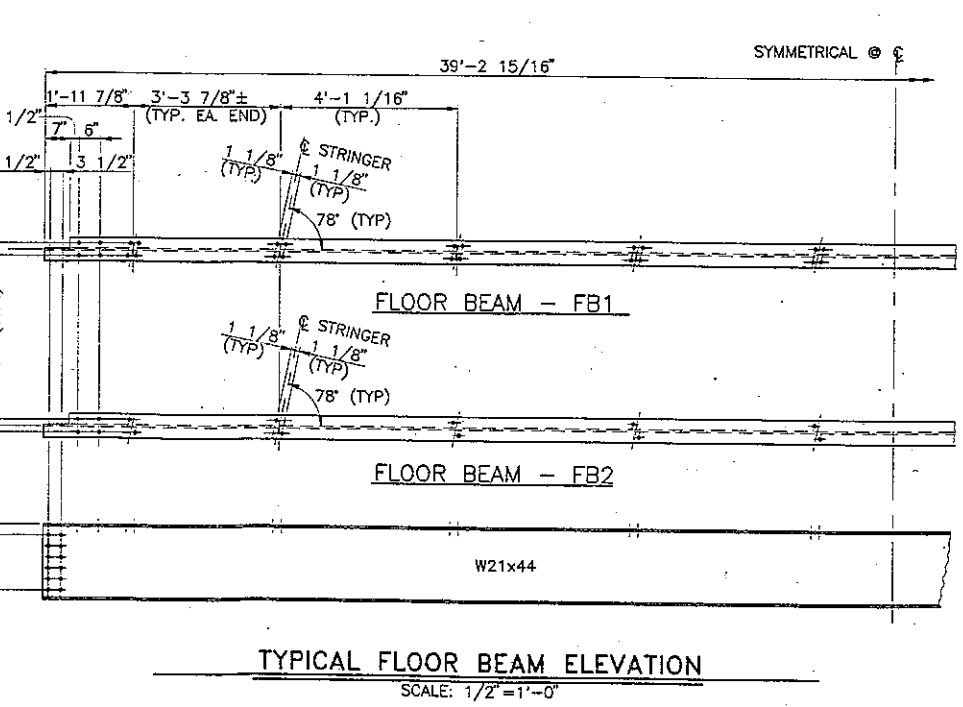
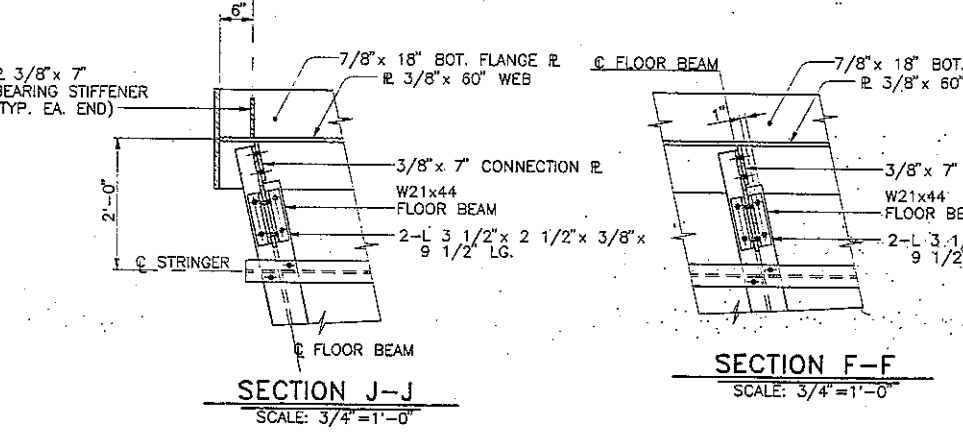
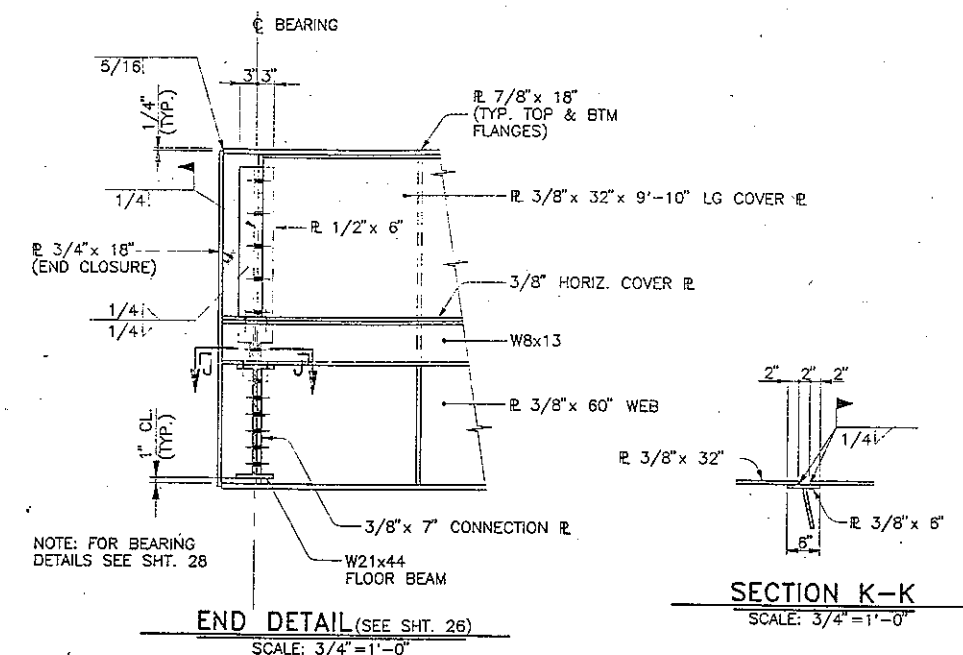
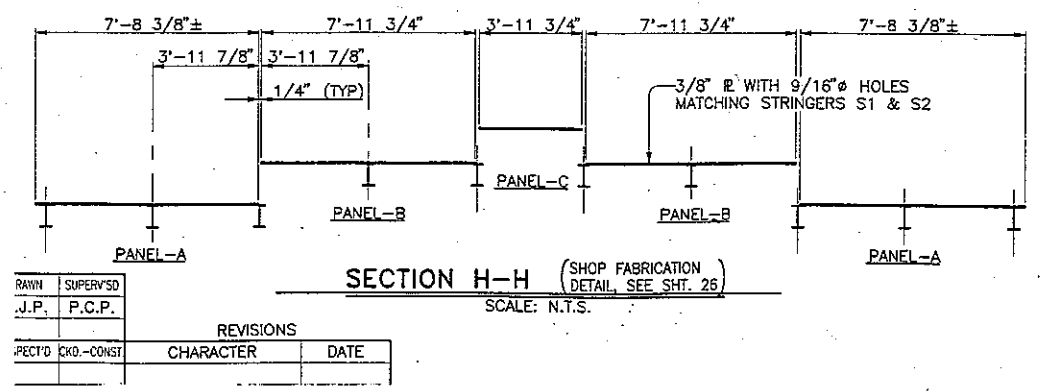
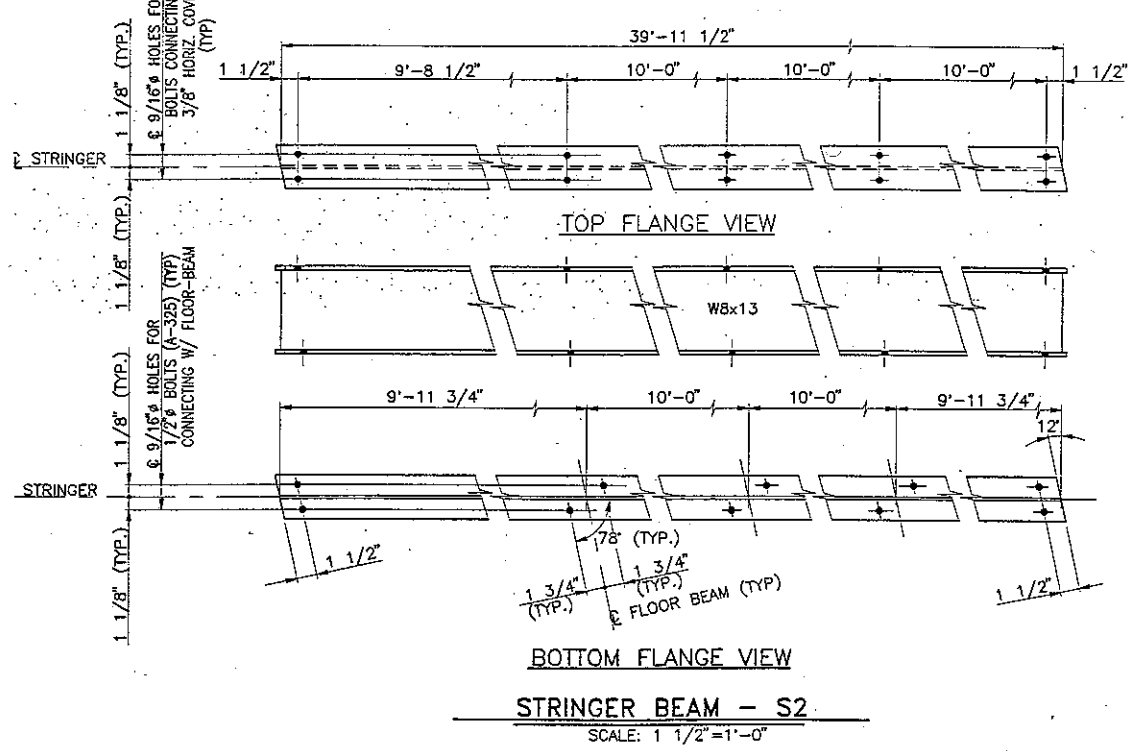
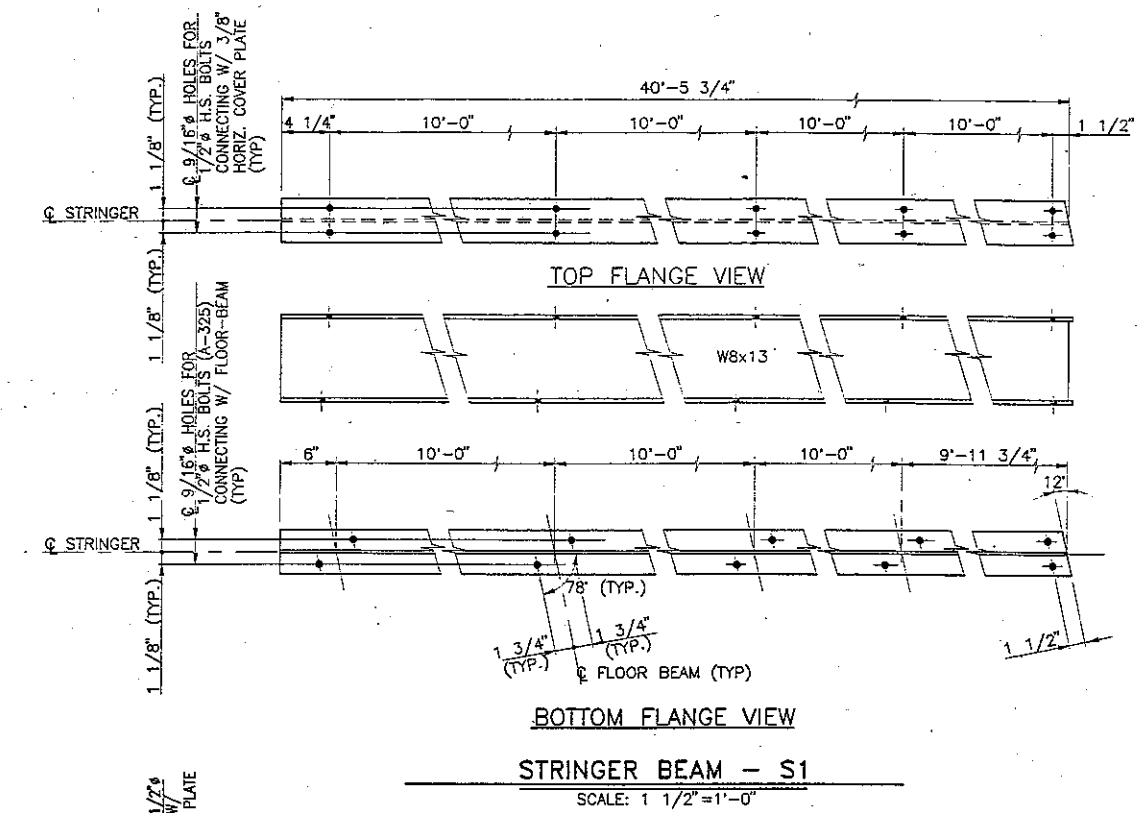
- NOTES:
- FOR GENERAL NOTES, SEE SHT. 24.
 - FOR BEARING PAD DETAILS, SEE SHT. 28.
 - FB - FLOOR BEAM
 - S - STRINGER
 - INSTALL THE 3/4" x 6" x 4'-0" LG PLATES BEFORE WELDING THE 3/8" BENT PLATE.
 - PLACE THE 3/8" CONTINUOUS PLATE BEFORE WIRING THE GUNNITE MESH.

CITY OF PITTSBURGH
DEPARTMENT OF ENGINEERING
AND CONSTRUCTION

D.E.C. PROJECT NO. 90206
GREENFIELD BRIDGE
REHABILITATION DESIGN
FRAMING PLAN & TYPICAL SECTION
PROTECTIVE STRUCTURE

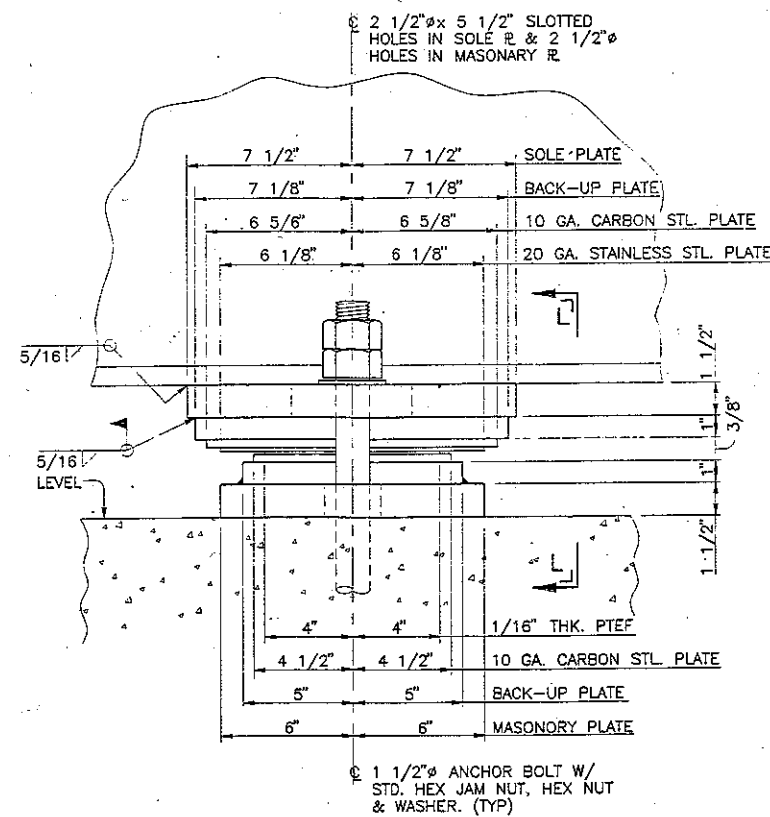
SCALE: AS NOTED
SHEET NO. _____
ACCESSION NO. _____

DRAWN	SUPERVISOR
R.J.P.	P.C.P.
SPECTOR	CHK-CONST
REVISIONS	CHARACTER
DATE	

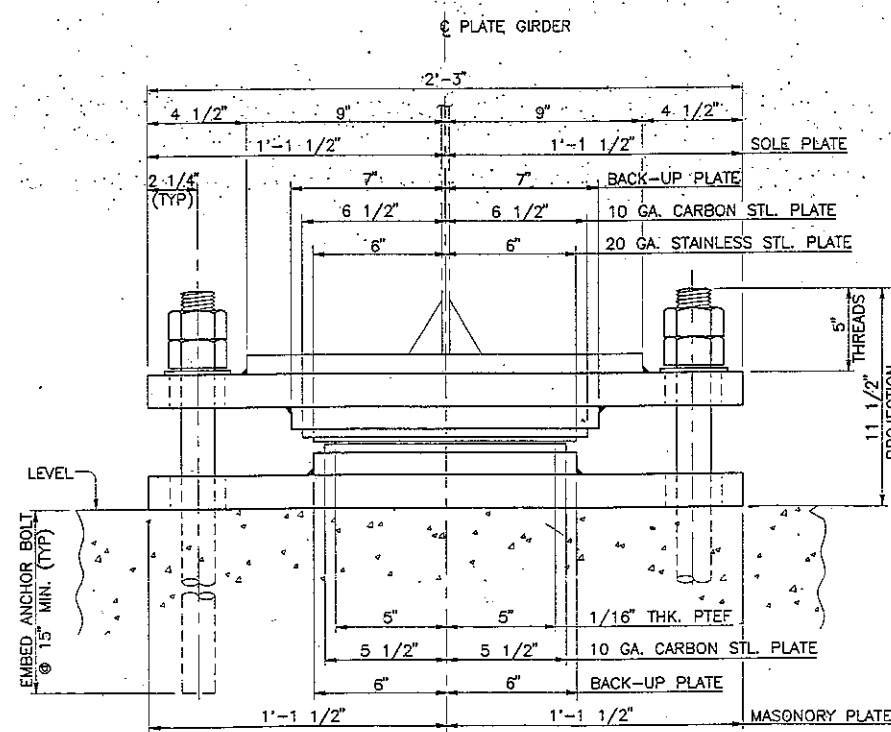


NOTES:
FOR GENERAL PLAN, SEE SHT. 23.
FOR GENERAL NOTES, SEE SHT. 24.
FOR BEARING PAD DETAILS, SEE SHT. 28.
USE STANDARD BOLT HOLES.

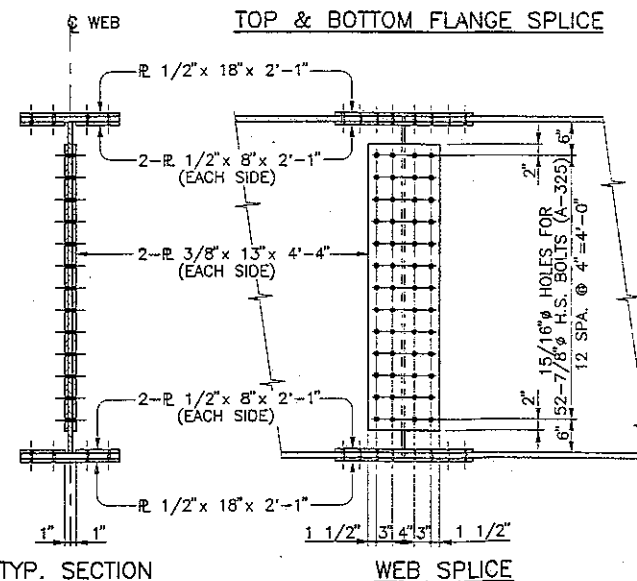
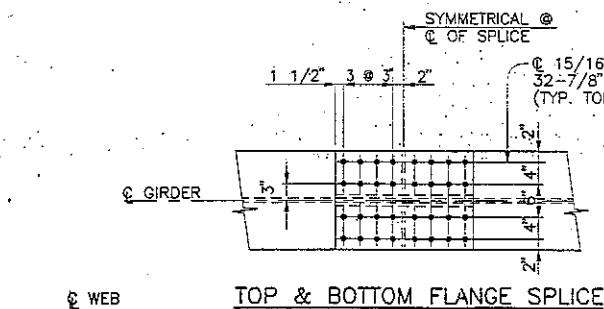
**CITY OF PITTSBURGH
DEPARTMENT OF ENGINEERING
AND CONSTRUCTION**
**D.E.C. PROJECT NO. 90206
GREENFIELD BRIDGE
REHABILITATION DESIGN
SECTIONS & DETAILS
PROTECTIVE STRUCTURE**
SCALE: AS NOTED
SHEET NO. _____
ACCESSION NO. _____



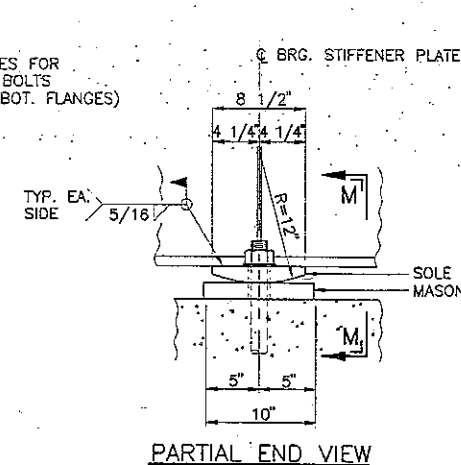
PARTIAL END VIEW



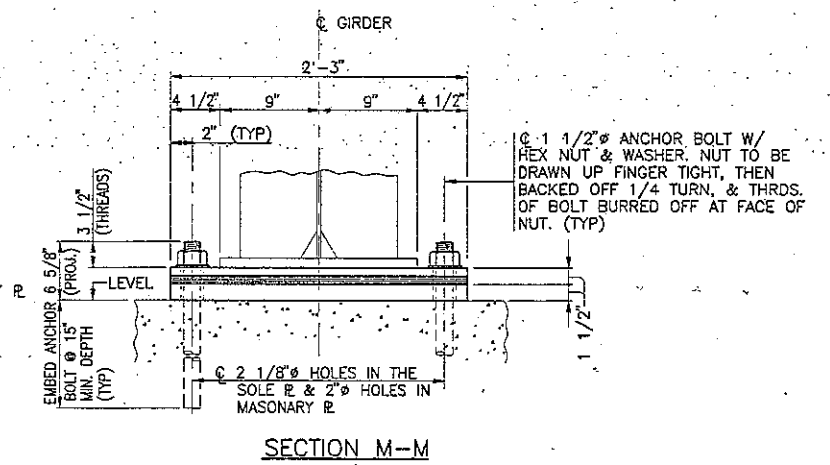
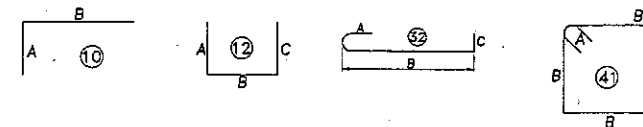
SECTION L-L
EXPANSION BEARING
SCALE: 3"=1'-0"



FIELD SPLICE DETAIL



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

REINFORCEMENT BAR SCHEDULE[illegible]

REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY.

VERIFY REINFORCEMENT BAR SCHEDULE PRIOR TO BIDDING AND FABRICATION.

FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO
STANDARD DRAWING BC-736.

FIGURE IN CIRCLES SHOW TYPES.

FY = 60 K.S.I.

SHOW DIMENSION ON 180° HOOKS ONLY WHERE NECESSARY
TO RESTRICT HOOK SIZE, OTHERWISE USE STANDARD HOOKS.

NOTES:
FOR GENERAL PLAN, SEE SHT. 23.
FOR GENERAL NOTES, SEE SHT. 24.

CITY OF PITTSBURGH
DEPARTMENT OF ENGINEERING
AND CONSTRUCTION

D.E.C. PROJECT NO. 90206
GREENFIELD BRIDGE
REHABILITATION DESIGN
BEARING DEVICES, FIELD SPLICE & REBAR SCHEDULE
PROTECTIVE STRUCTURE

SCALE: AS NOTED SHEET NO. ACCESSION NO.