

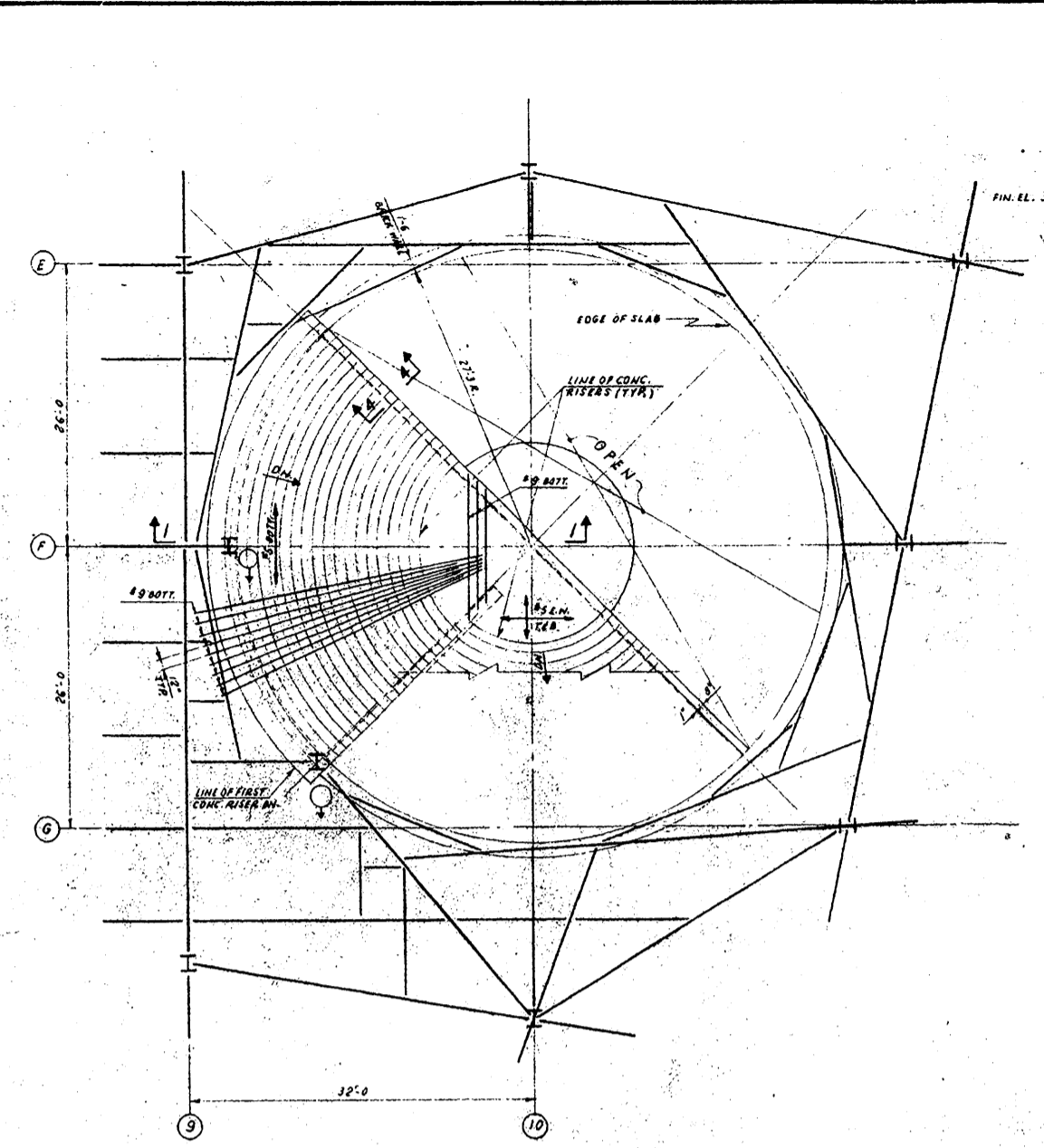




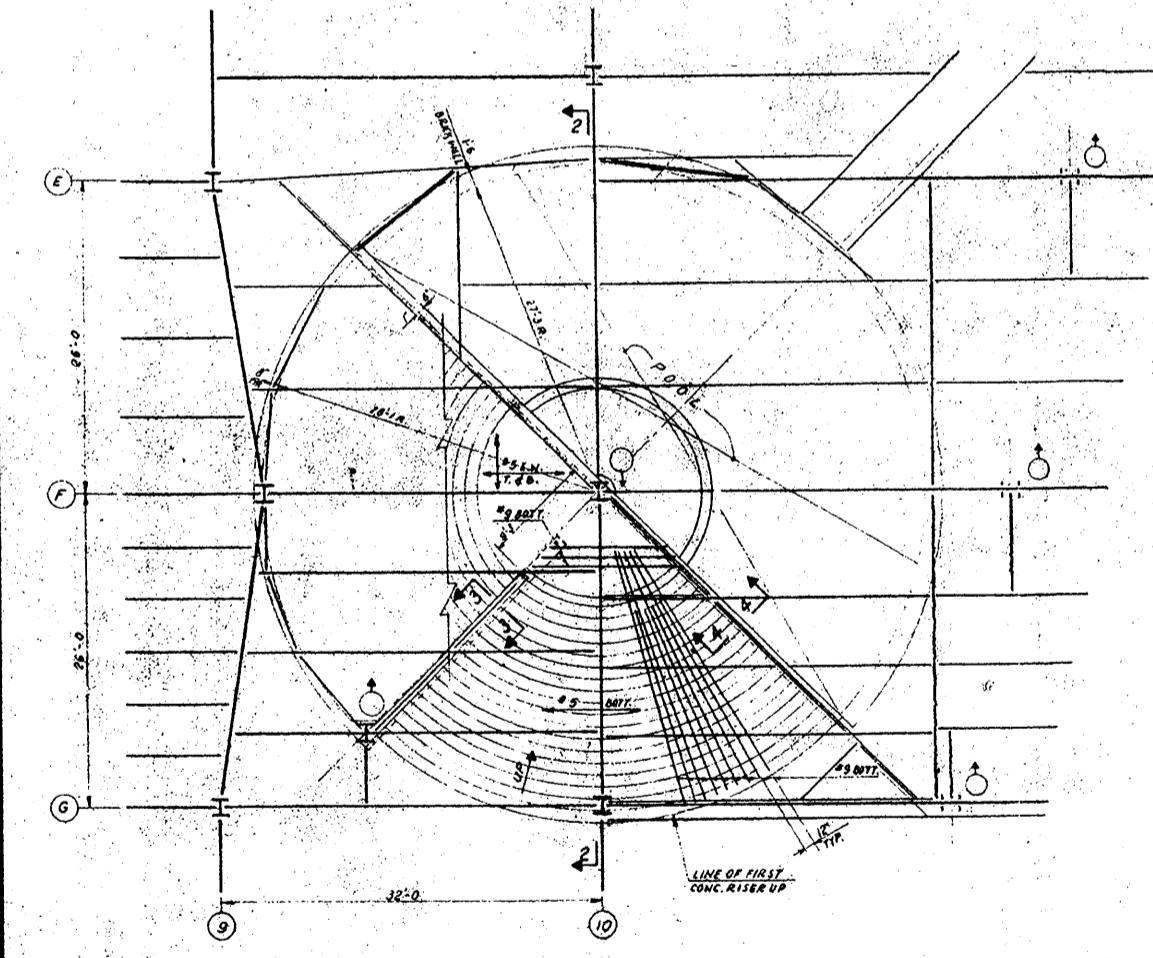




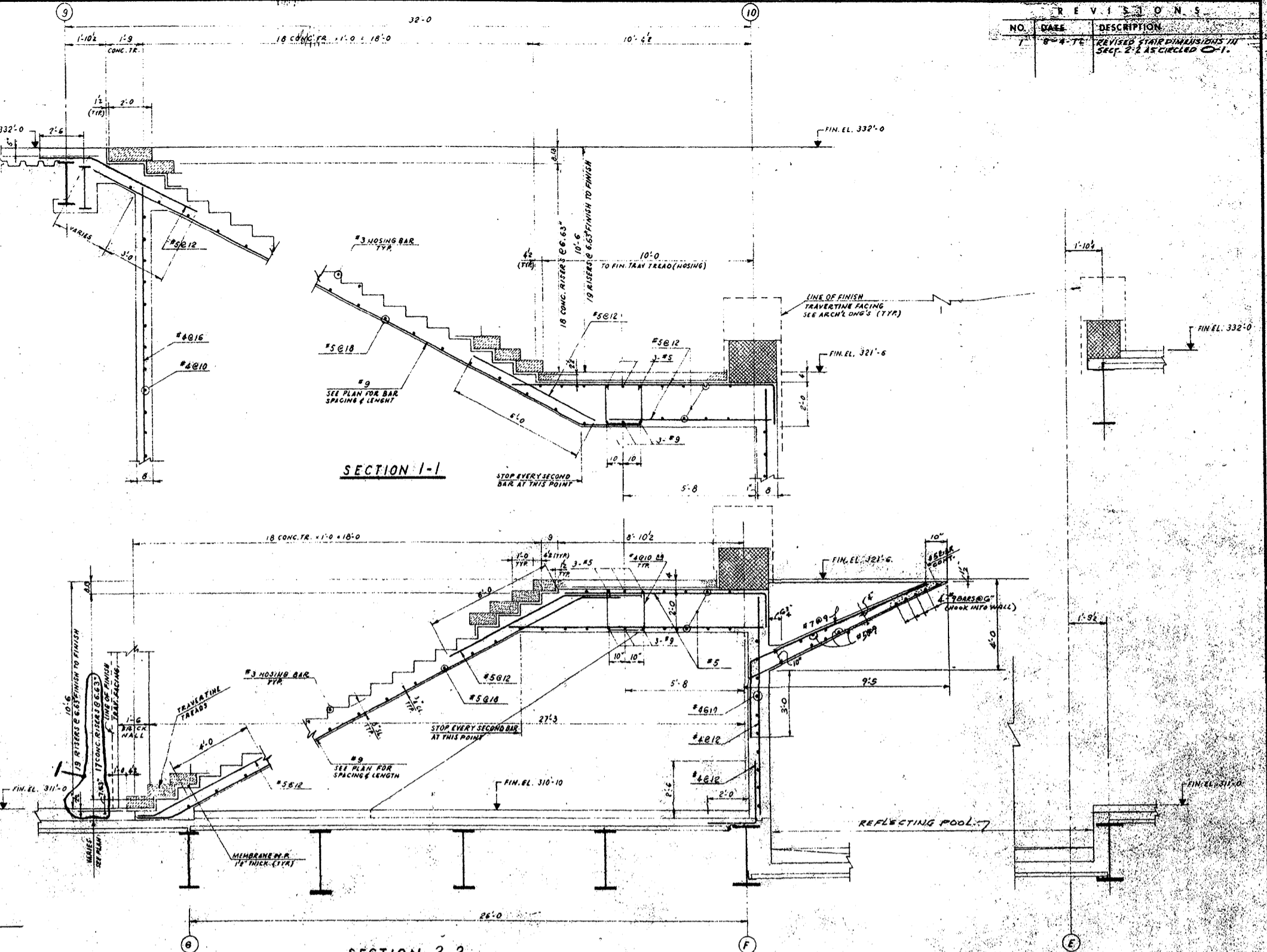
REVISIONS		
NO.	DATE	DESCRIPTION
7	8-9-72	REVISED TO REFLECT CHANGES ON SHEET S-35 ENCLOSED D-1.



2<sup>ND</sup> FLOOR PART FRAMING PLAN - CONCRETE STAIR

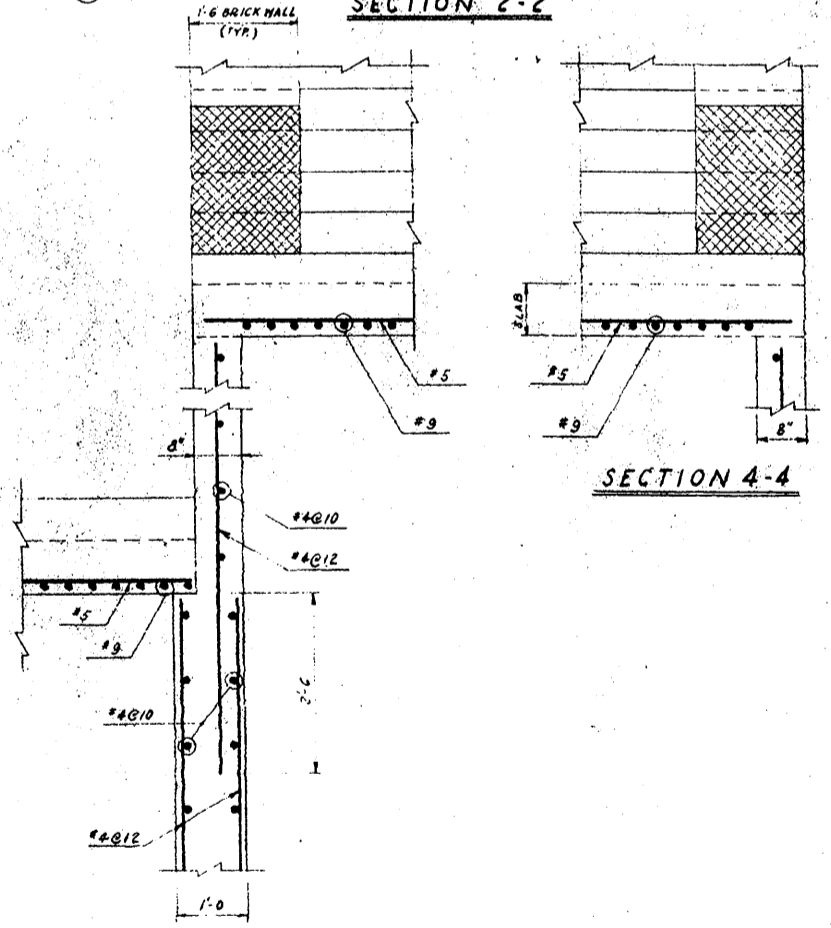


1<sup>ST</sup> FLOOR PART FRAMING PLAN - CONCRETE STAIR



SECTION 1-1

SECTION 2-2



SECTION 3-3

SECTION 4-4

NOTE:  
 1. ALL CONCRETE IN STAIR TO BE L.H. CONCRETE & TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5500 PSI.  
 2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A615.  
 3. LAP ALL BARS 40 DIA. AT 3 PLACES UNLESS OTHERWISE NOTED.  
 4. FOR FINISH SEE ARCHT. DWG'S A-10 & A-12.

RELEASED FOR CONSTRUCTION JULY 11, 1972

**BANKERS TRUST PLAZA**

A FISHER BROTHERS PROJECT

GREENWICH AND LIBERTY ST. N.Y. N.Y.

SHREVE/LAMB/HARMON ASSOCIATES P.C. ARCHITECTS  
 475 PARK AVENUE SOUTH N.Y. N.Y. 10014

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
 919 THIRD AVENUE N.Y. N.Y. 10022

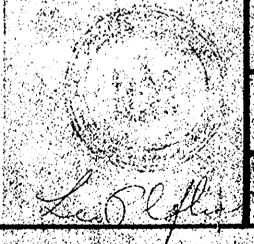
THE OFFICE OF JAMES RUBINMAN STRUCTURAL ENGINEERS  
 318 MADISON AVENUE N.Y. N.Y. 10017

JAROS BAUM & CO. L.L.C. MECHANICAL ENGINEERS  
 345 PARK AVENUE N.Y. N.Y. 10022

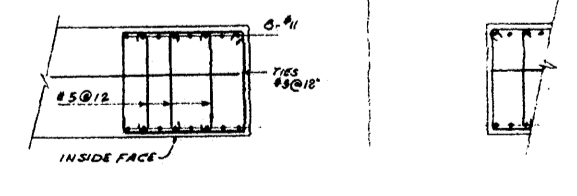
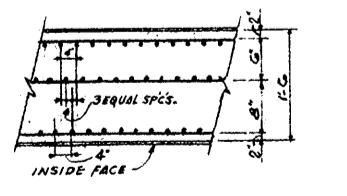
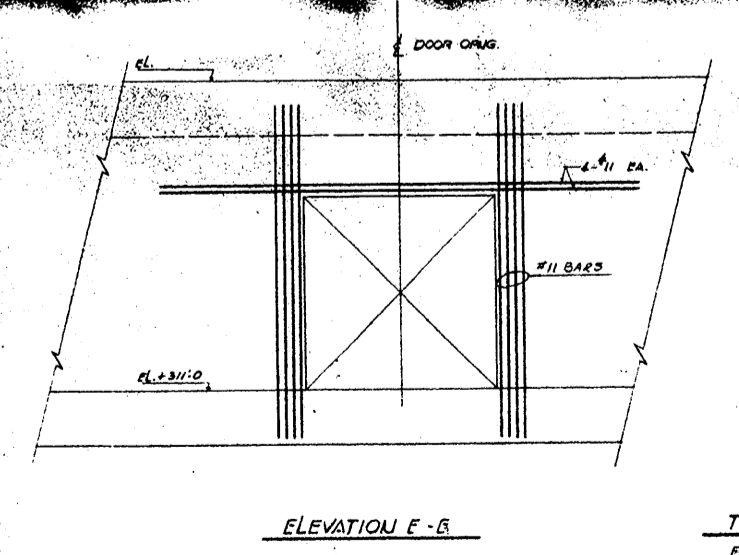
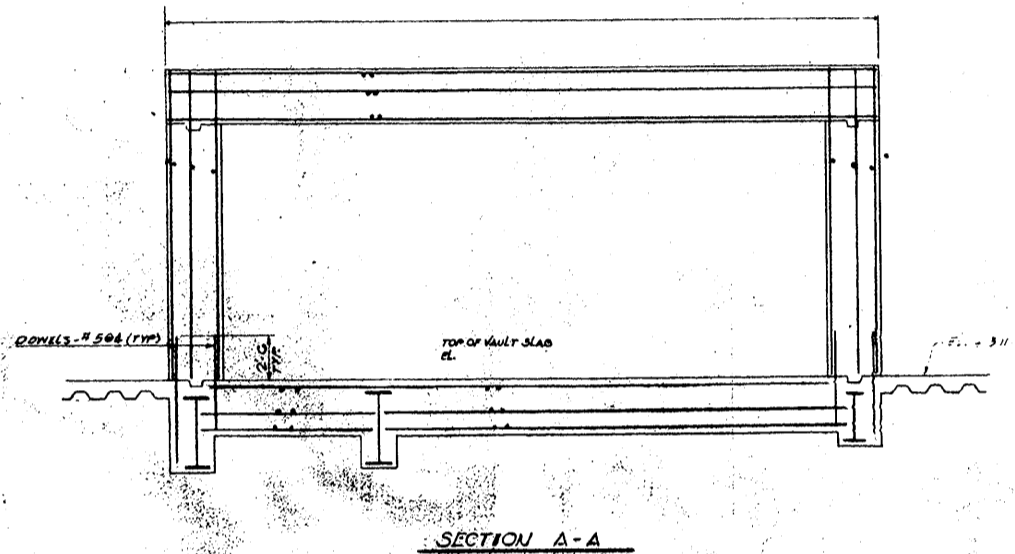
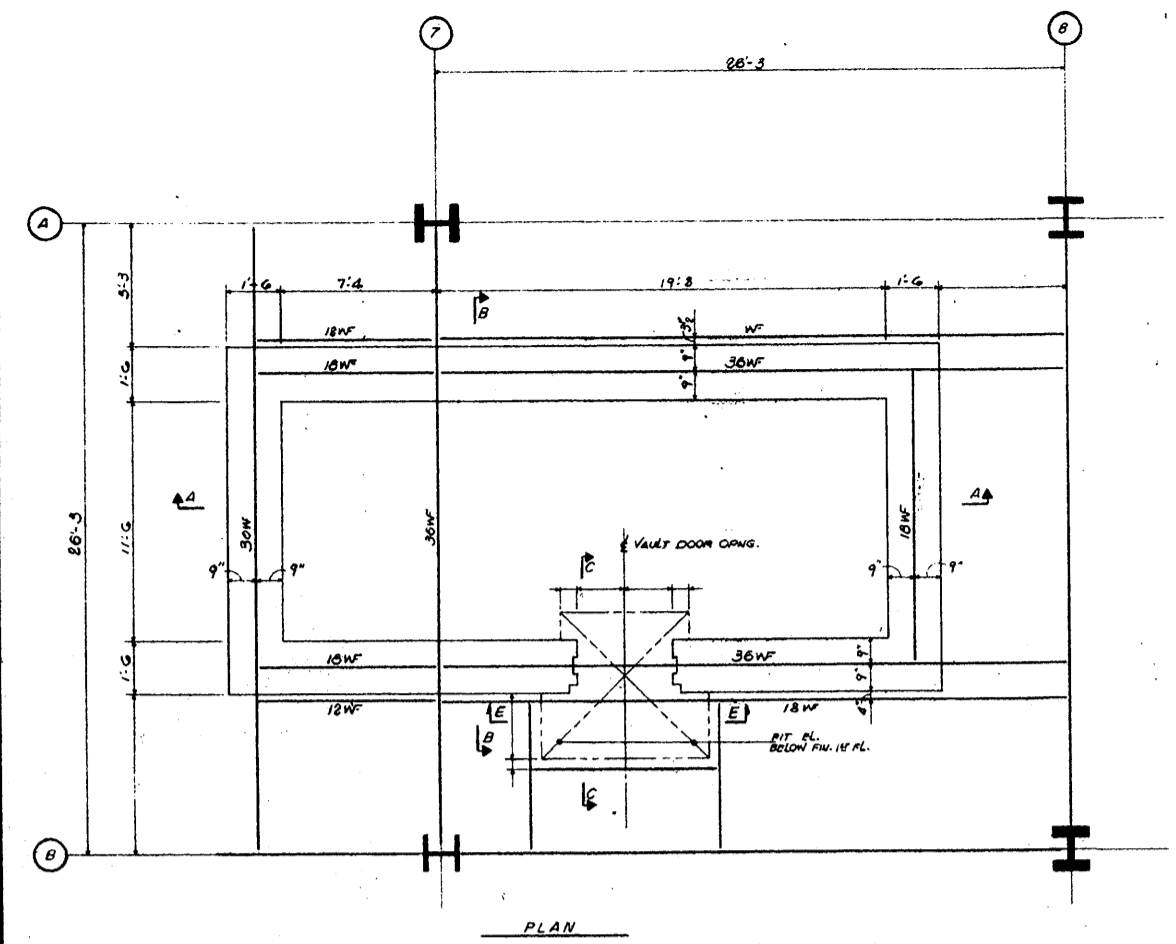
RECEIVED  
 OCT 15 2001  
 SECTOR 8000

**EXTERIOR STAIR**

PROJECT NUMBER  
**7101**  
 DRAWING NUMBER  
**S-35**  
 DATE  
 SCALE  
 1/4" = 1'-0"



REVISION		
NO.	DATE	DESCRIPTION



FOR ALL WALLS, SLAB & ROOF.  
ALL REIN. #30 UNLESS OTHERWISE NOTED.

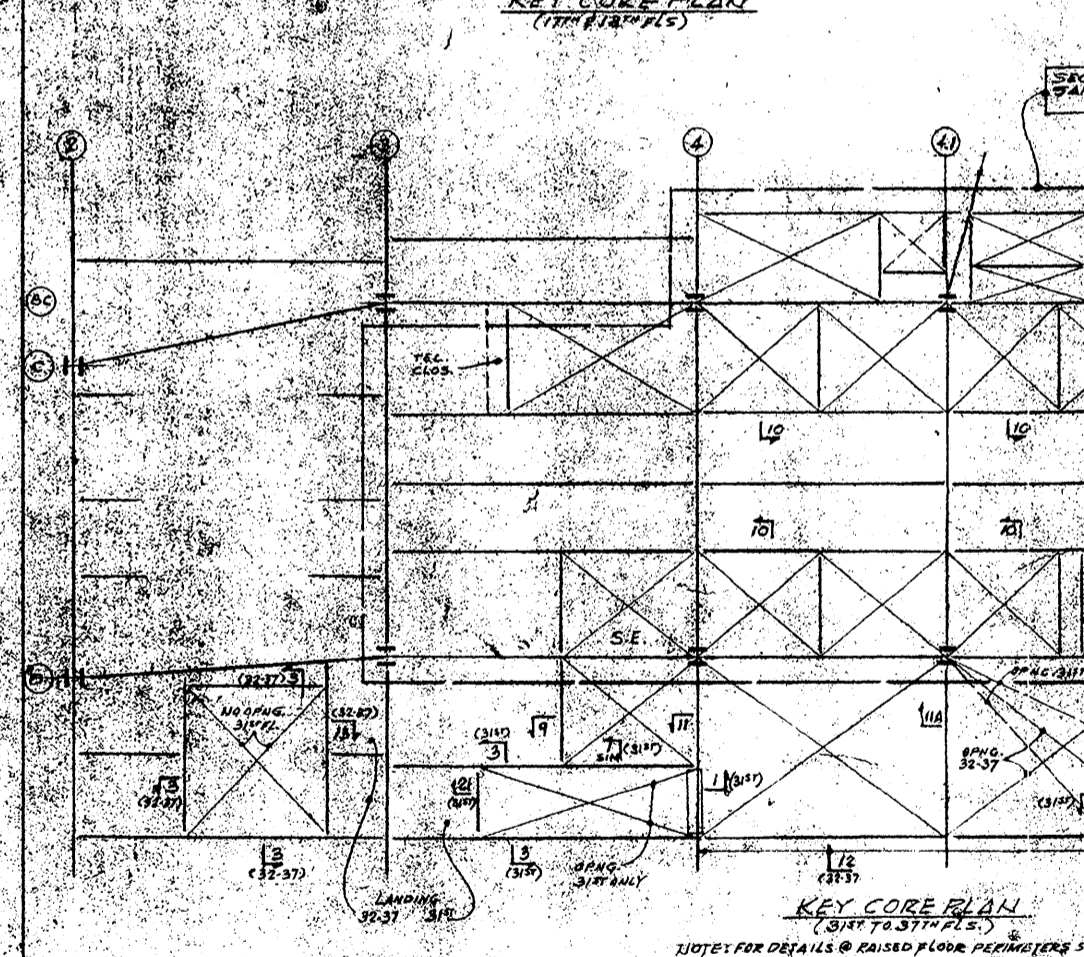
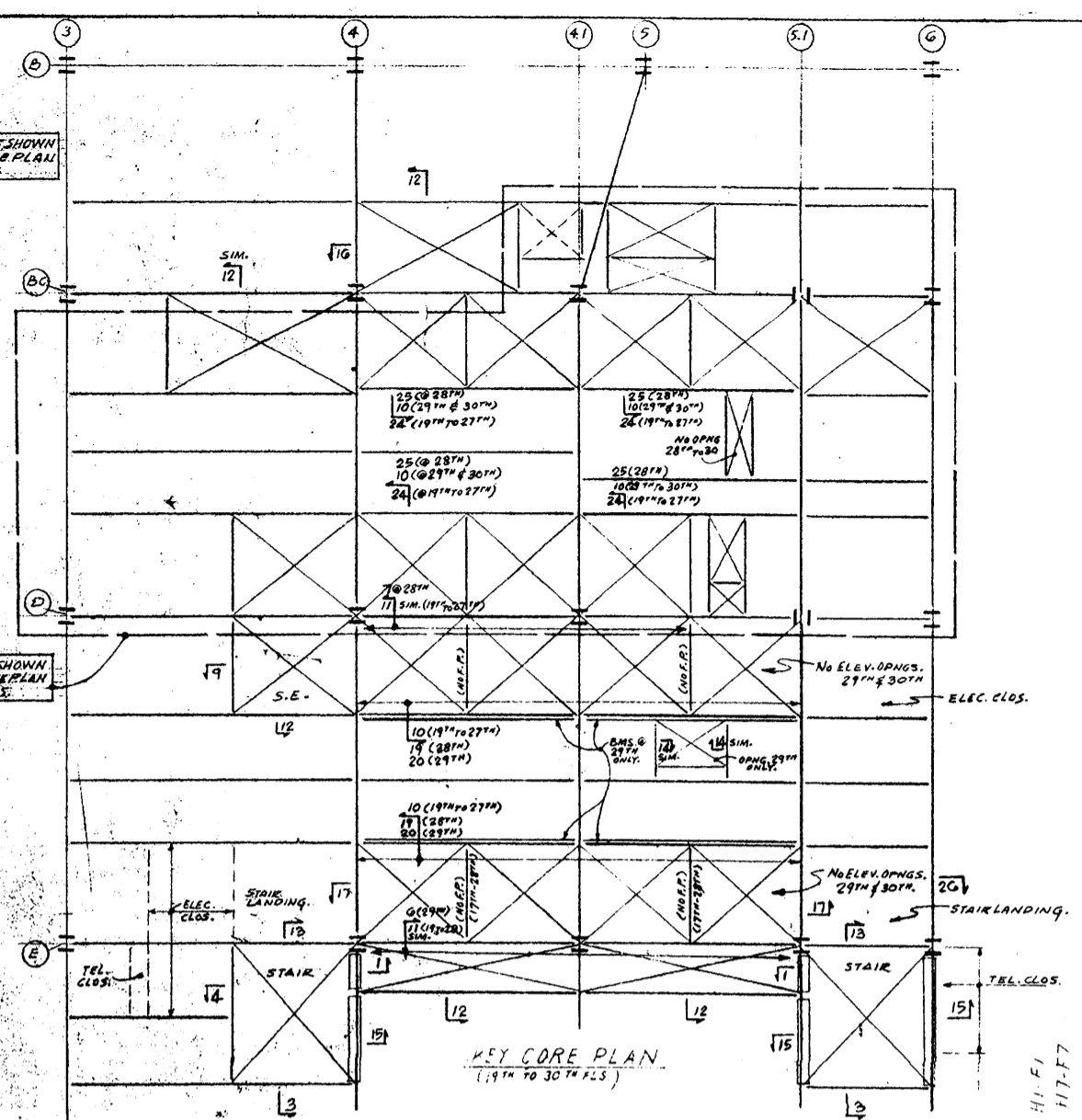
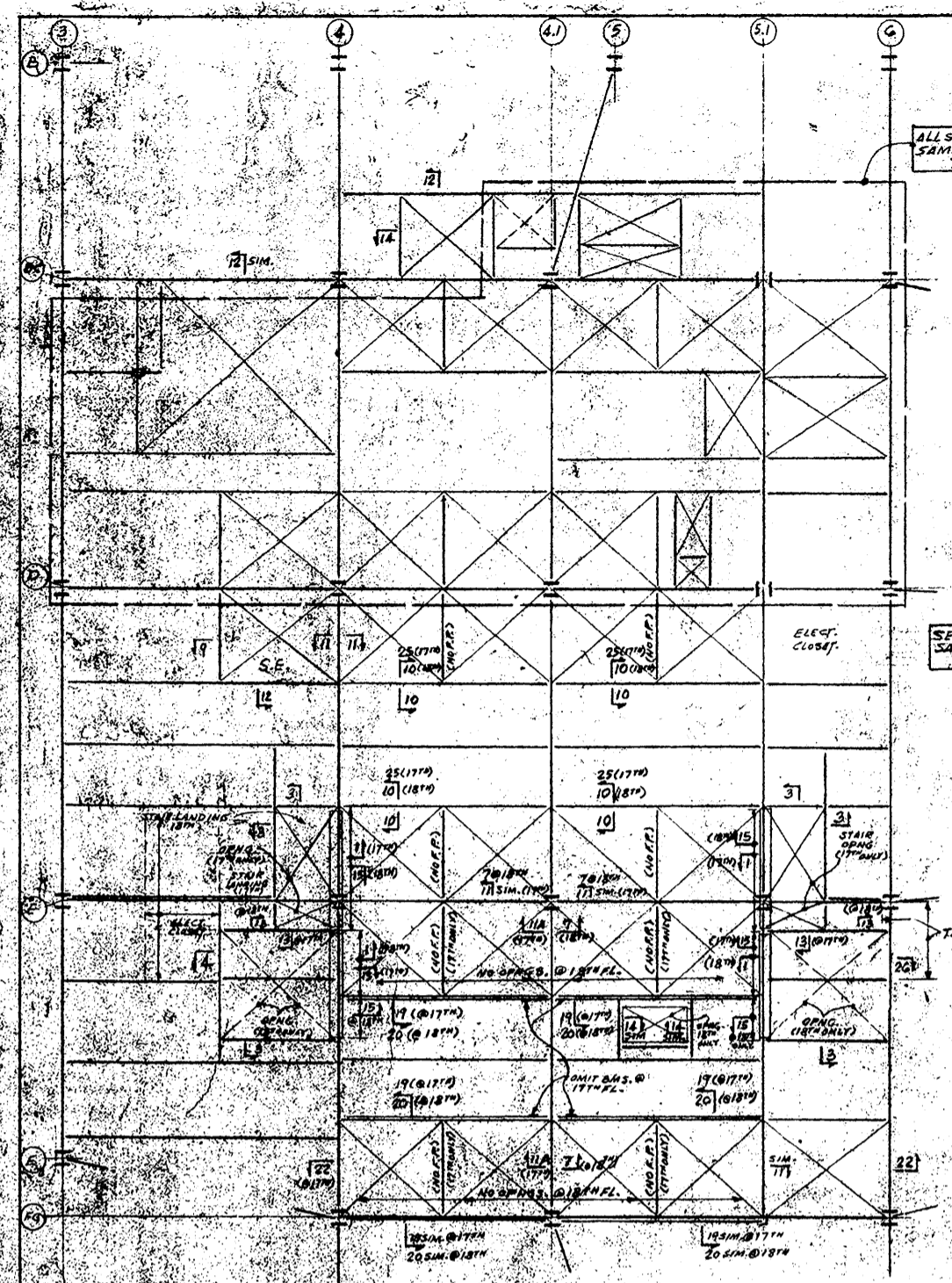
- CONCRETE NOTES:**
1. ALL CONCRETE USED IN BANK VAULT TO BE SPONGE CONCRETE & HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI (28 DAYS).
  2. ALL REINFORCING BARS SHALL BE DEFORMED BARS OF A.S.T.M. A-615, G.O. LATEST EDITION.
  3. LAP ALL BARS 40 DIAM. AT SPICES. ALL BARS SHALL BE WELDED TOGETHER AT INTERSECTIONS AND SPICES.
  4. THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".
  5. FOR EXACT CONFIGURATION OF DOOR OPENINGS, VENTILATION, ETC., SEE MANUFACTURER'S DWGS.
  6. PROVIDE CORNER BARS AT ALL INTERSECTIONS.

ISSUED TO	NO.	DATE	PKG. NO.
<b>BANKERS TRUST PLAZA</b>			
<b>A FISHER BROTHERS PROJECT</b>			
GREENWICH AND LIBERTY ST. N. Y. N. Y.			
SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS 475 PARK AVENUE SOUTH N. Y. N. Y. 10016			
PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS 919 THIRD AVENUE N. Y. N. Y. 10022			
THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS 515 MADISON AVENUE N. Y. N. Y. 10022			
J A R O S . B A U M & B O L L E T S MECH. & ELEC. ENGINEERS 345 PARK AVENUE N. Y. N. Y. 10022			

BRANCH BANK VAULT	
PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-34</b>
DATE	
SCALE	

FOR CONCRETE BIDS ONLY 12-1-71

REVISIONS		
NO.	DATE	DESCRIPTION
1	11-9-70	ADDED LOADING & MESH SCHEDULE FOR 1ST FLOOR INTERM.



LOADING SCHEDULE	2ND FLOOR		TYPICAL FLOOR				5TH FLOOR OVER MECHANICAL				MECHANICAL FLOORS				ELEVATOR MACHINE RMS.				ROOF								
	#1	#2	#1	#2	#3	#4	#1	#2	#3	#4	#1	#2	#3	#4	#1	#2	#3	#4	#1	#2	#3						
BATTERY STORAGE																											
ELEVATOR LOBBY																											
FILL																											
FINISH																											
PARTITIONS																											
CEILING PIPING																											
CONC. FILL																											
DECK																											
SOLID CONC. SLAB																											
<b>TOTAL LOAD</b>	465	100	230	200	188	127	148	99	140	280	280	248	198	288	313	310	313	438	613	585	50	189	150	185	180	143	100
CLEAR SPAN	5'-0"		6'-0"	6'-0"	7'-6"	7'-6"	8'-0"	8'-0"	8'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
REIN. REQUIRED	22		18	24	24	24	24	24	24	18	24	24	24	24	18	24	24	24	24	24	24	24	24	24	24	24	24
MESH S.I.C.	24-4		24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4	24-4
PROVIDE BM IN INTERIOR CLEAR SPAN OVER																											
PROVIDE DIV. IN 2ND CLEAR SPAN OVER																											

- LOADING SCHEDULE NOTES**
1. PROVISION HAS BEEN MADE FOR A CONCENTRATED LOAD OF 20' AT ANY POINT AS PER SECT. C-20 - 105.2 (C) OF THE NEW YORK CITY BUILDING CODE.
  2. CONCENTRATED LOAD OF 2' RIPS AT ANY POINT - NON CONCURRENT WITH UNIFORM LIVE LOAD.
  3. PROVISION HAS BEEN MADE FOR ACTUAL WEIGHT OF EQUIPMENT ASSOCIATED WITH MECHANICAL FLOORS.
  4. CONCENTRATED LOAD ON ROOF 250 LBS (ON AREA 2 FT x 2 FT) AT ANY POINT, NON-CONCURRENT WITH UNIFORM LIVE LOAD.
  5. ON STAIRS: A CONCENTRATED LOAD OF 300 LBS (ON AREA 1 FT WIDE x DEPTH OF TREADS AND SPACED 30" CENTER TO CENTER); NON-CONCURRENT WITH UNIFORM LIVE LOAD.

NOTE: SEE DWG. S-32 FOR TYPICAL DETAILS & SECTIONS

RELEASED FOR ORDERING & DETAILING - 1-20-72.

ISSUED TO: NO. DATE PRG. NO.

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N. Y. N. Y.

**SHREVE, LAMB & HARMON ASSOCIATES INC. ARCHITECTS**

475 PARK AVENUE SOUTH N. Y. N. Y. 10018

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**

919 THIRD AVENUE N. Y. N. Y. 10022

**THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS**

185 MADISON AVENUE N. Y. N. Y. 10022

**J. A. ROS, BAUM & BOLLER MECH. ELEC. ENGINEERS**

345 PARK AVENUE N. Y. N. Y. 10022

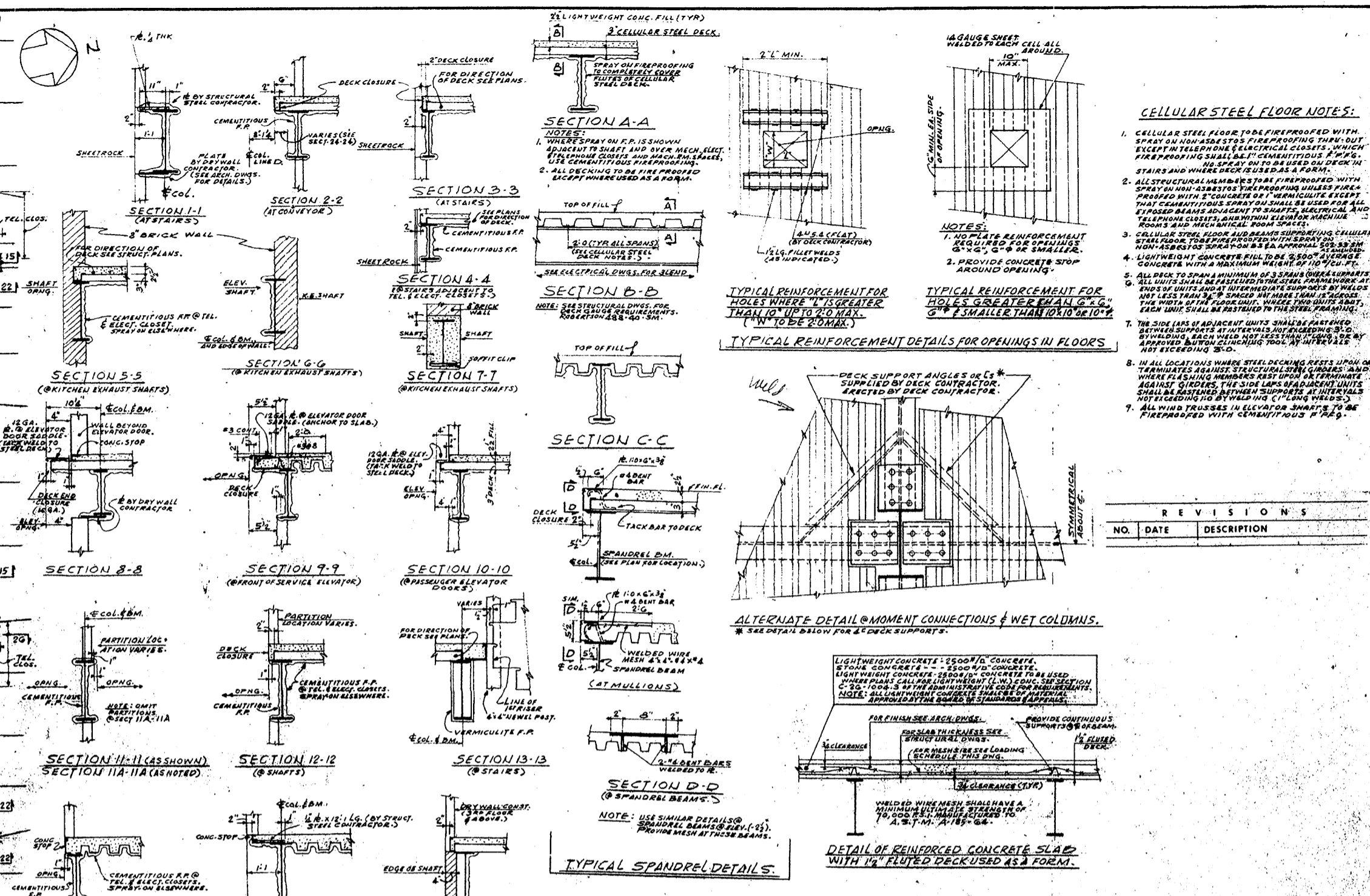
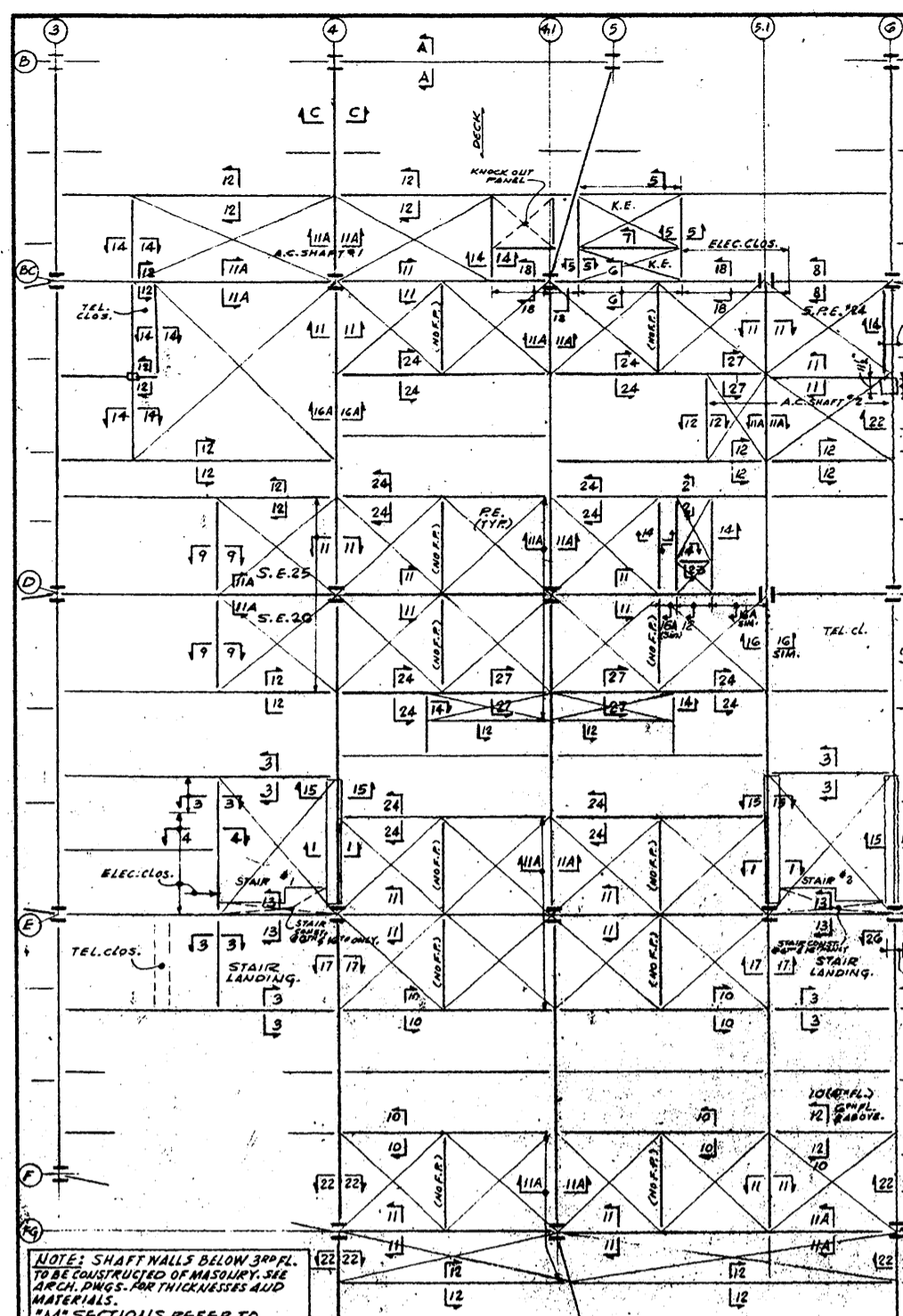
**TYPICAL CONSTRUCTION DETAILS II**

PROJECT NUMBER  
**7101**

DRAWING NUMBER  
**S-33**

DATE

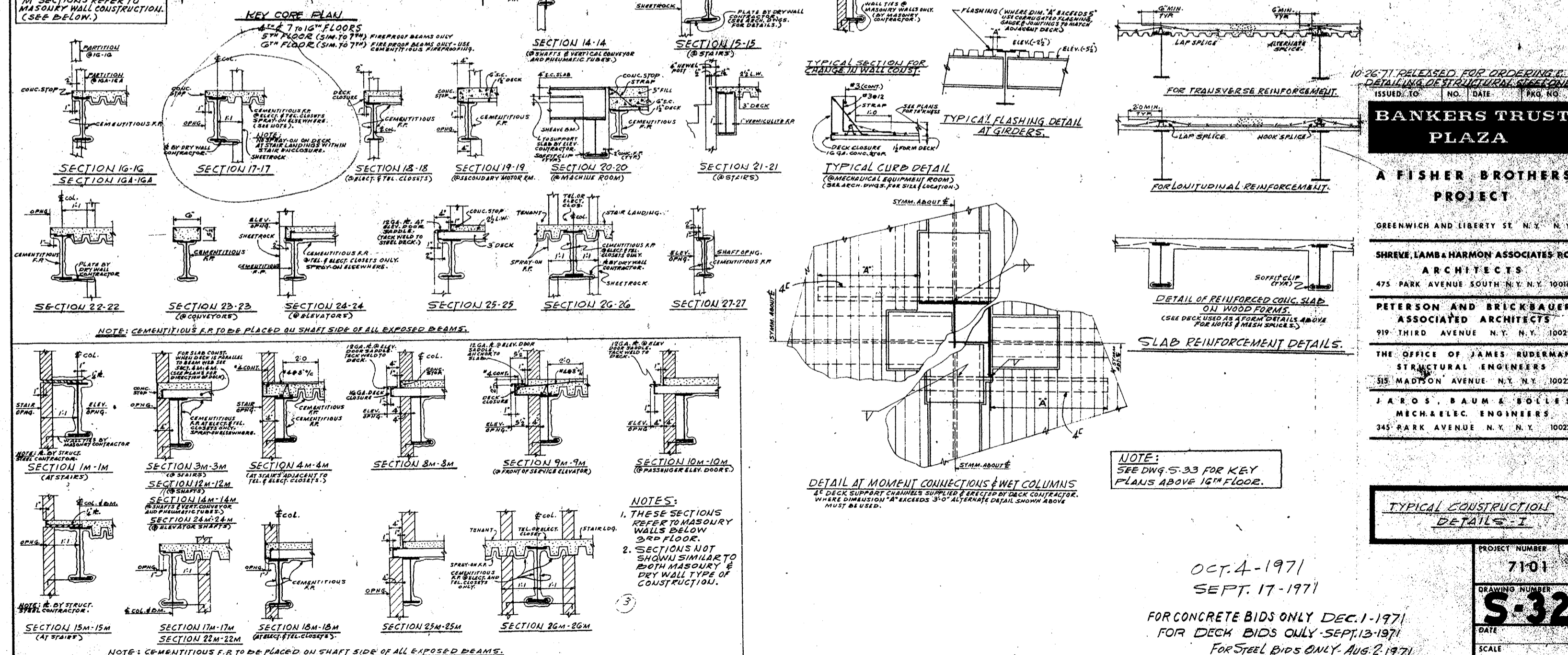
SCALE



**CELLULAR STEEL FLOOR NOTES:**

- CELLULAR STEEL FLOOR TO BE FIREPROOFED WITH SPRAY ON NON-REINFORCED FIREPROOFING TYPE-OUT EXCEPT IN TELEPHONE & ELECTRICAL Closets, WHICH FIREPROOFING SHALL BE CEMENTITIOUS F.R. STAIRS AND WHERE DECK IS USED AS A FORM.
- ALL STRUCTURAL MEMBERS TO BE FIREPROOFED WITH SPRAY ON NON-REINFORCED FIREPROOFING UNLESS FIREPROOFED WITH 2" CONCRETE OR 1" MORTARITE EXCEPT WALL CEMENTITIOUS SPRAY ON SHALL BE USED ON ALL EXPOSED BEAMS ADJACENT TO SHAFTS, ELECTRICAL AND TELEPHONE Closets, AND WITHIN ROOM SPACES.
- CELLULAR STEEL FLOOR SHALL BE FIREPROOFED WITH CELLULAR STEEL FLOOR TRAPINGS PROVIDED WITH SPRAY ON CONCRETE WITH A MAXIMUM HEIGHT OF 10" TO 12" FT.
- LIGHTWEIGHT CONCRETE FILL TO BE 5000 PSI STRENGTH CONCRETE WITH A MAXIMUM HEIGHT OF 10" TO 12" FT.
- ALL DECK TO SPAN MINIMUM OF 3 SPANS (OVER SUPPORTS).
- ALL JOISTS SHALL BE FASTENED TO THE STRUCTURAL MEMBERS AT ENDS AND INTERMEDIATE SUPPORTS BY MEANS OF STEEL BOLTS AND NUTS. BOLTS SHALL BE 1/2" DIA. AND NUTS SHALL BE 1/2" DIA. UNLESS OTHERWISE SPECIFIED.
- THE JOIST LAYS ADJACENT JOISTS SHALL BE FASTENED TOGETHER AT INTERMEDIATE SUPPORTS BY MEANS OF APPROVED BOLTED CLAMPING TOOL AT INTERVALS NOT EXCEEDING 30'-0".
- IN ALL LOCATIONS WHERE STEEL DECKING RESTS UPON OR OVERLIES EXISTING STRUCTURAL MEMBERS (WALLS, BEAMS, etc.) THE JOIST LAYS SHALL BE PROTECTED BY DECK CONTRACTOR.
- ALL JOISTS SHALL BE FASTENED TO THE STRUCTURAL MEMBERS AT ENDS AND INTERMEDIATE SUPPORTS BY MEANS OF STEEL BOLTS AND NUTS. BOLTS SHALL BE 1/2" DIA. AND NUTS SHALL BE 1/2" DIA. UNLESS OTHERWISE SPECIFIED.
- ALL JOIST TRUSSES IN ELEVATOR SHAFTS TO BE FIREPROOFED WITH CEMENTITIOUS F.R.

REVISIONS		
NO.	DATE	DESCRIPTION



10-26-71 RELEASED FOR ORDERING & DETAILING OF STRUCTURAL STEELWORK

ISSUED TO: NO. DATE PKG. NO.

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

SHREVE, LAMB & HARMON ASSOCIATES, R.C. ARCHITECTS  
475 PARK AVENUE SOUTH, N.Y. N.Y. 10018

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
919 THIRD AVENUE, N.Y. N.Y. 10022

THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
515 MADISON AVENUE, N.Y. N.Y. 10022

J. A. ROSS, BAUM & SOLE'S MECH. ELEC. ENGINEERS  
345 PARK AVENUE, N.Y. N.Y. 10022

**TYPICAL CONSTRUCTION DETAILS - I**

PROJECT NUMBER: 7101

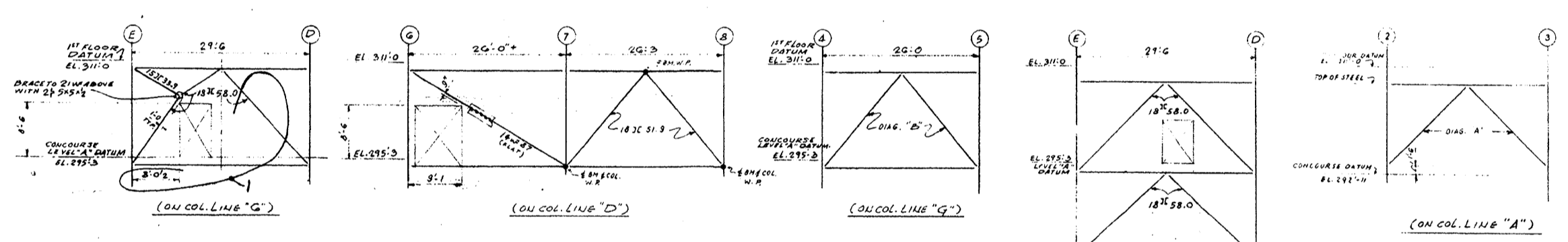
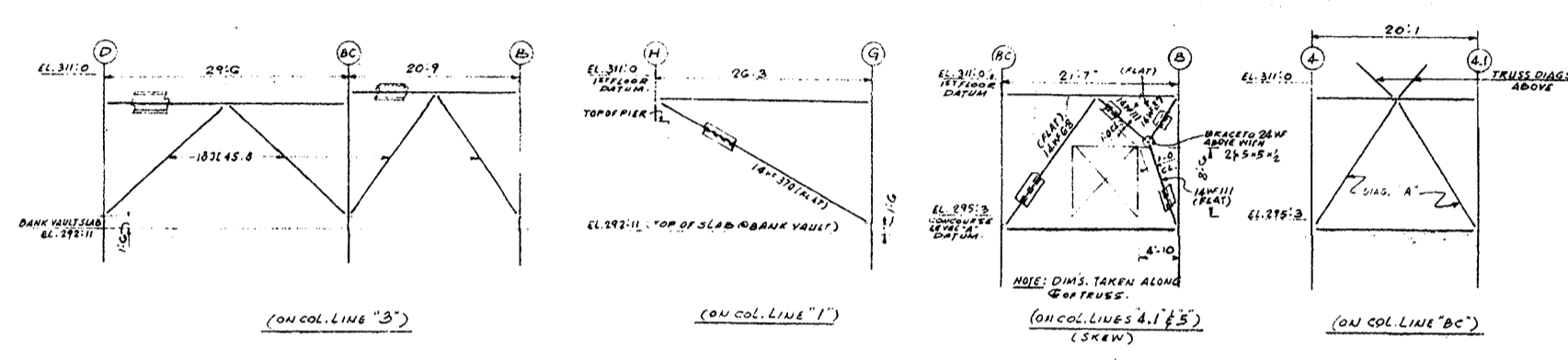
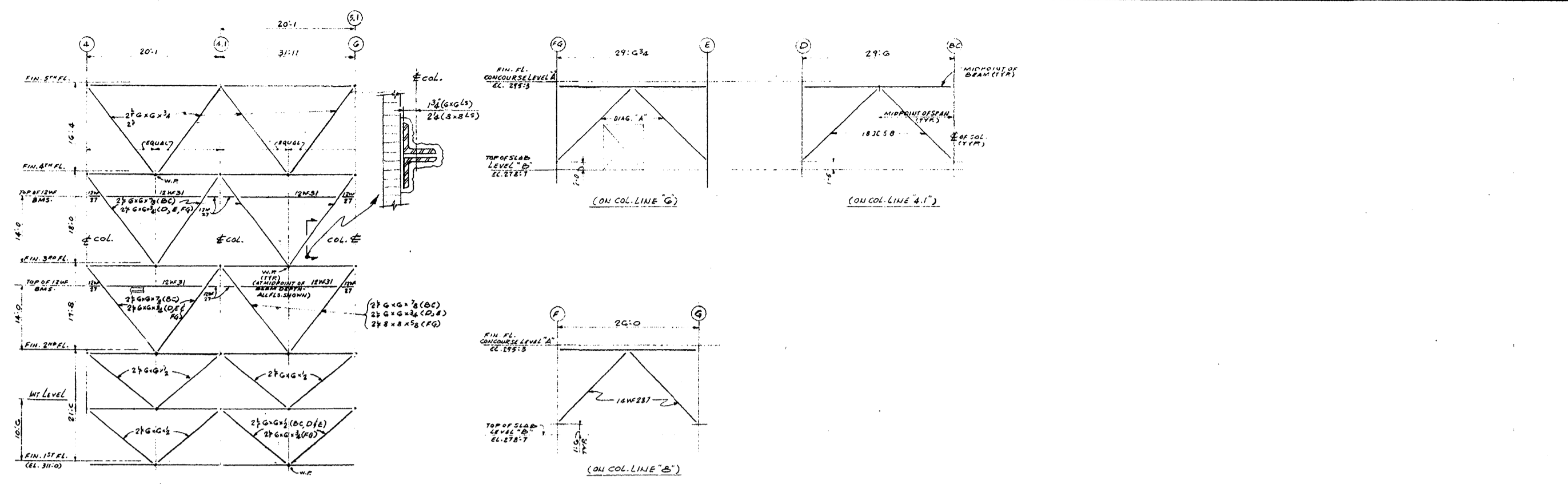
DRAWING NUMBER: S-32

DATE: OCT. 4-1971

SCALE: FOR CONCRETE BIDS ONLY DEC. 1-1971 FOR DECK BIDS ONLY SEPT. 13-1971 FOR STEEL BIDS ONLY AUG. 2-1971

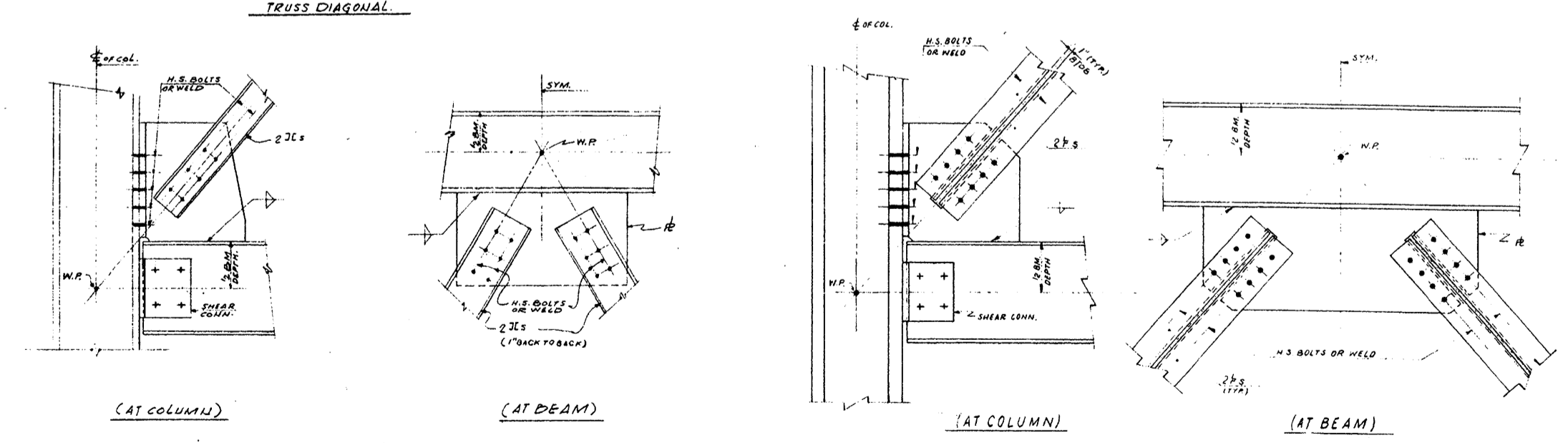


REVISIONS		
NO.	DATE	DESCRIPTION
1	1-24-72	WIND TRUSS REVISION DUE TO NEW CONCRETE LAYOUT (CONCRETE)



DIAGONAL SCHEDULE		
MARK	COVER #	(REFER)
A	C x 1	
B	B x 1	

COVER # TRUSS DIAGONAL



TYPICAL WIND TRUSS CONNECTIONS

RELEASED FOR ORDERING & DETAILING 10-27-71

ISSUED TO NO. DATE PKG. NO.  
**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N. Y. N. Y.

SHREVE, LAMB & HARMON ASSOCIATES P.C.  
 ARCHITECTS  
 475 PARK AVENUE SOUTH N. Y. N. Y. 10016

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
 919 THIRD AVENUE N. Y. N. Y. 10022

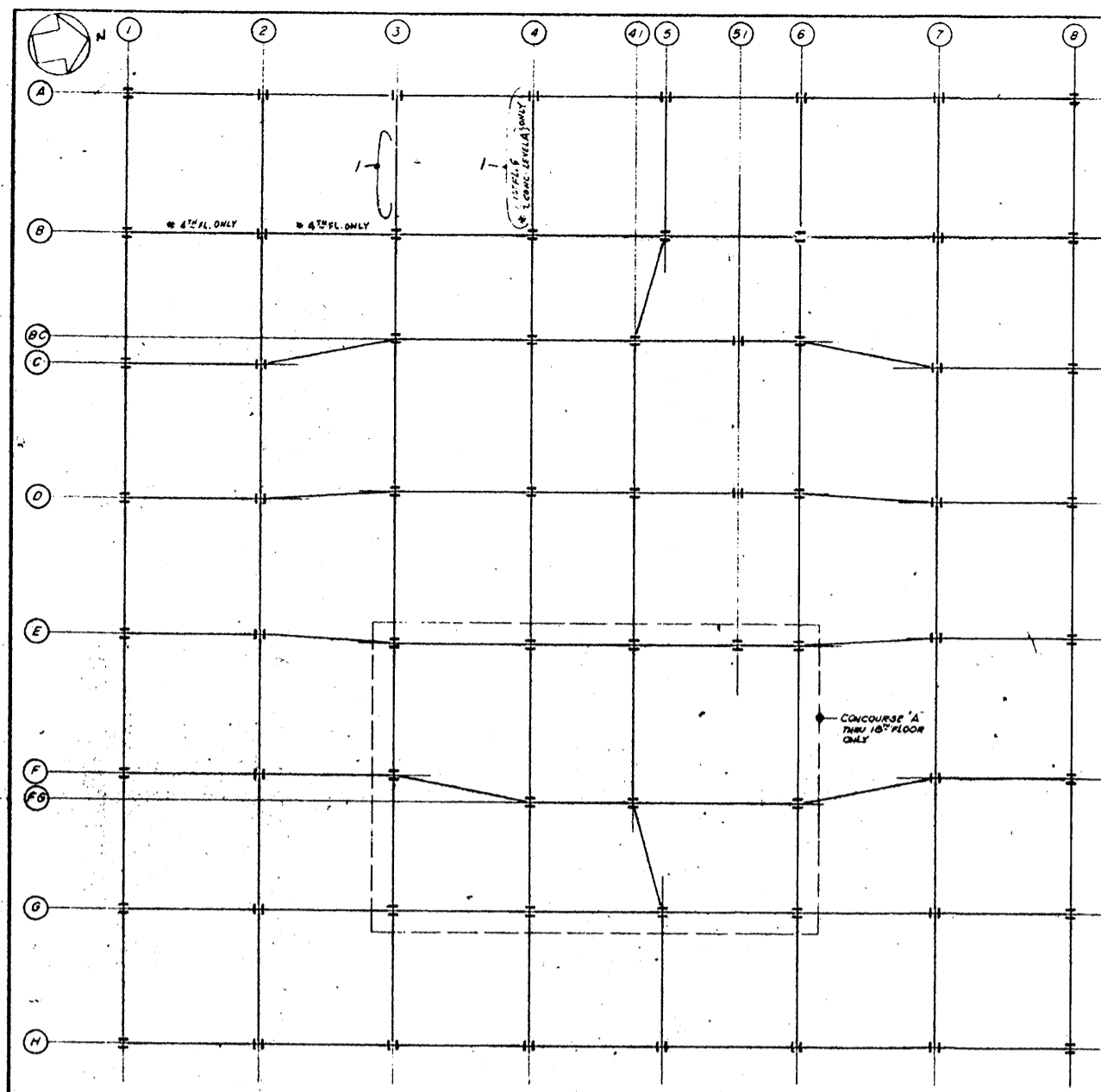
THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
 515 MADISON AVENUE N. Y. N. Y. 10022

JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS  
 345 PARK AVENUE N. Y. N. Y. 10022

WIND TRUSS LAYOUT & DETAILS

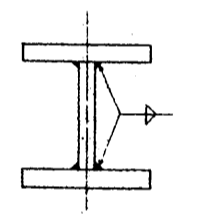
PROJECT NUMBER  
**7101**  
 DRAWING NUMBER  
**S-31**  
 DATE  
 SCALE

FOR CONCRETE BIDS ONLY 12-1-71



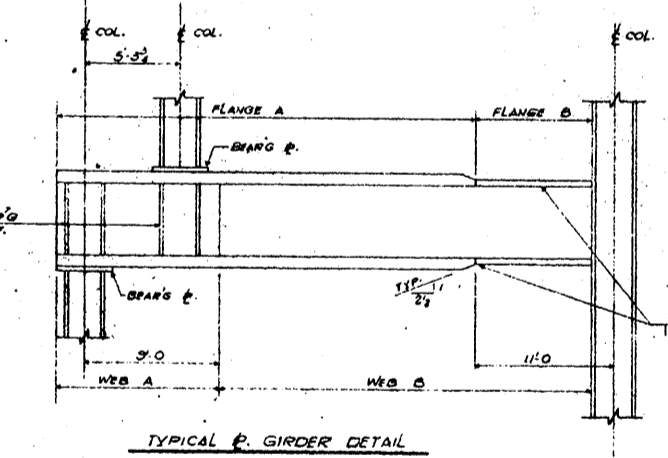
WIND MOMENT CONNECTION KEY PLAN

1. ALL COL. TO COL. BEAMS SHOWN TO HAVE MOMENT CONNECTIONS ON ALL FLOORS WHERE FRAMING OCCURS (CONCOURSE "A" THRU MAIN ROOF).
2. MOMENT CONNECTIONS IN LINES B, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.



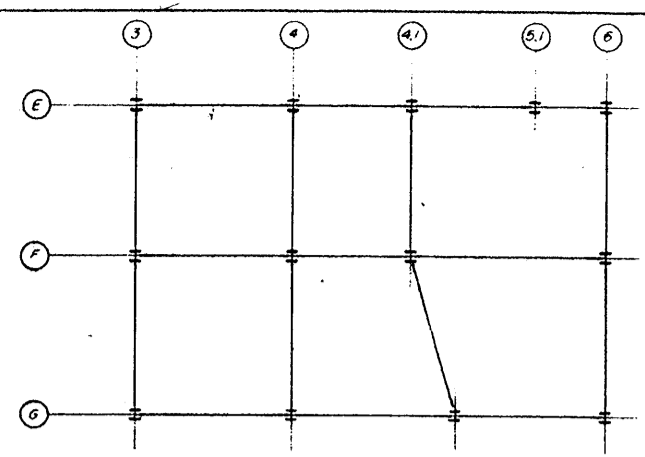
TYP. WIND GIRDER DETAIL

WIND GIRDER SCHEDULE	FLANGE	WEB	SIZE
WG-1	10 1/2 x 14	39 x 1	
WG-2	10 1/2 x 14	39 x 1	
WG-3	10 1/2 x 14	39 x 1	
WG-4	10 1/2 x 14	39 x 1	
WG-5	10 1/2 x 14	39 x 1	

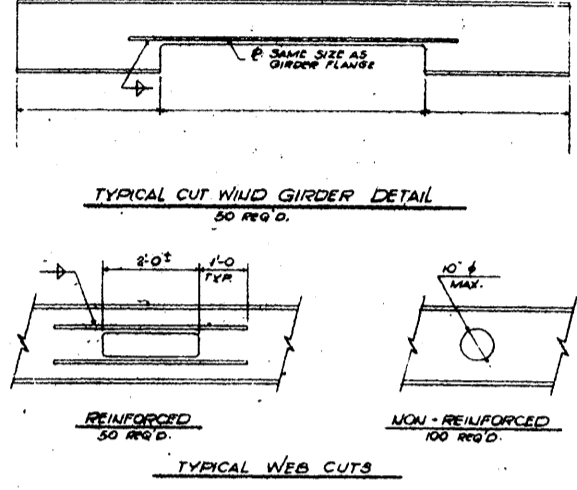


TYPICAL P. GIRDER DETAIL

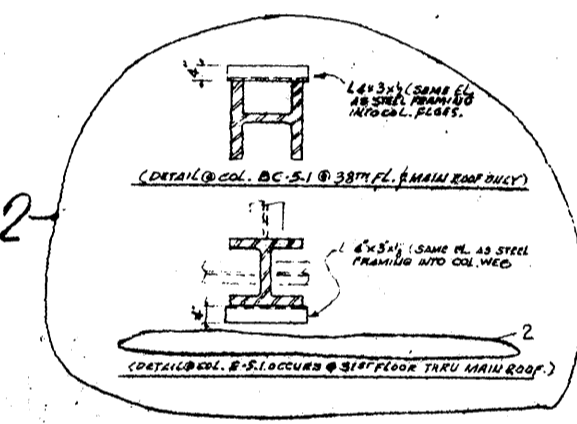
PLATE GIRDER SCHEDULE	WEB	FLANGE	SIZE
19PG-1	41 1/2 x 1/2	20 x 3	20 x 3
19PG-2	41 1/2 x 1/2	20 x 3	20 x 3
19PG-3	41 1/2 x 1/2	20 x 3	20 x 3



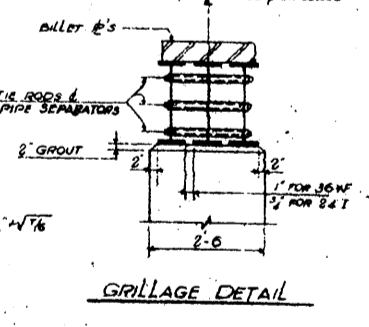
PART PLAN 19th FL. THRU MAIN ROOF



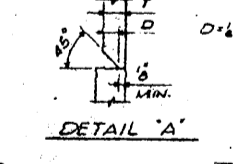
TYPICAL WEB CUTS



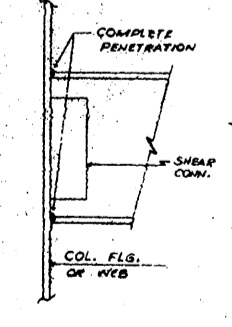
TYPICAL SPANDREL BEAM CUTS



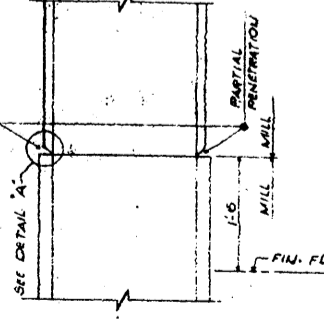
GRILLAGE DETAIL



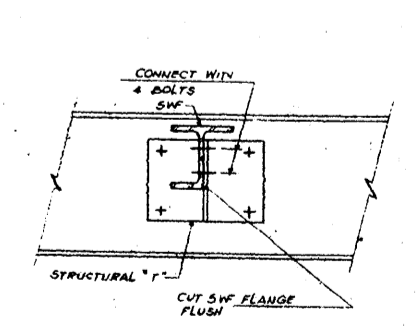
DETAIL 'A'



TYPICAL WIND CONN. DETAIL



TYPICAL COL. SPLICE



TYPICAL DETAIL FOR ELEVATOR GUIDE RAIL SUPPORT

NOTE: SPICE FOR COLUMNS 70, 76, 100 & 106. 21 FT FLOOR TO OCCUR. 4" ALONG FINISHED 1" FL. SPICES. 1" FLATES. 1/8" WEB COLUMN FLANGES.

NOTE: CONNECTION ANGLE TO RUN DOWN TO BOTTOM FLANGE OF BEAM AT ALL WIND TRAVELERS. HOLDING OUT SPACING 1/2" VERTICALLY.

GENERAL STEEL NOTES:

1. Calculated stresses used for structural steel are in accordance with Sect. C26-1005.1, C26-1005.2 of the New York City Building Code. Steel shall be A36 steel, and where specifically called for, A-588.
2. AISC Specifications for design, fabrication and erection of structural steel for buildings adopted Feb. 1989 shall apply, except as modified by the notes, schedules and details shown on the structural drawings, or by any more restrictive requirements of the New York City Building Code.
3. All shop connections shall be welded.
4. All column splices, connections of beams to columns up within 3'-6" of column, connections of beams carrying machinery loads or column loads and all cross connections shall be field welded. All other connections may be field bolted except where specifically shown otherwise on the structural drawings. High strength bolting may be substituted, shown otherwise on the structural drawings.
5. All ends of columns at splices and at other bearing connections shall be welded to complete true bearing.
6. Milled stiffeners shall be provided under all column concentrations and over all columns.
7. Where web plates are called for, they shall be welded to flanges of beam and at both sides.
8. Provide flange reinforcement where top or bottom cuts are called for and web plate reinforcement where holes and slots are called for.
9. Provide field welding at all cantilevers; keep ends of all cantilevered beams up 1/8". High strength bolting may be used as an alternate.
10. Steel contractor shall refer to the structural steel and welding specifications for detailed requirements for materials, procedures and inspection.
11. The use of the cutting torch in the field will not be permitted.
12. All welding to be done by welders licensed by the Building Superintendent in accordance with Sect. C26-1005.2(1)(1)(2) of the New York City Building Code, and the rules and regulations of the Board of Standards and Appeals.
13. Live loads of columns have been reduced in accordance with Sect. C26-908.2, C26-901.3 of the New York City Building Code.
14. All bolted or riveted substitutions shall be submitted to the engineer for approval.
15. The frame shall be carried up true and plumb, and temporary bracing shall be introduced whenever necessary to take care of all loads to which the structure may be subjected including equipment and the operation of same. Such bracing shall be the responsibility of the steel contractor and shall be left in place as long as required for safety.

ALTERNATE MOMENT CONNECTIONS - FOR STRUCTURE ONLY

- ALTERNATE 1
1. A plate butt welded to the column and fillet welded to the beam may be substituted for the moment connections shown on this drawing.
  2. Area of plate shall equal 100% of area of beam flange. (Average)
  3. Fillet weld shall equal strength of net area of plate.
- ALTERNATE 2
1. A plate butt welded to the column and riveted or bolted to the beam may be substituted for the moment connections shown on this drawing.
  2. Net area of plate shall equal 100% of beam flange area. (Average)
  3. Rivets or bolts shall equal strength of net area of plate.
- ALTERNATE 3
1. A high-strength bolted or riveted to column and beam flanges may be substituted for the moment connections shown on this drawing.
  2. All plates and connectors shall equal 100% of area of beam flange. (Average)

NOTES:

1. Stiffeners shall be required for design flanges in the case of welding to the column where local stresses exceed the allowable stress. The detail of calculating stiffener position shall be based on AISC publication "Welded Interior Beams to Column Connections".
2. Web reinforcing of column for shear and bending shall be required where web stresses due to shear and/or bending stresses are exceeded locally at the moment connections. This requirement is for both welded and riveted connections.
3. Where cover plates are used, additional rivets or other methods shall be used at moment connections to ensure that the forces are transferred to the entire column area, if necessary.
4. Alternate column sections will be permitted if the alternate is at least equal in area, moment of inertia and section modulus about all axes to the column section shown on the plans. Slight variation within architectural limitation will be approved by the engineer upon substitution.
5. Alternate column splices will be considered and approved if they follow AISC standards such as those shown in the AISC Manual.
6. All beams and girders are having a moment connection shall be provided with flexible shear connections equal in value to the loads shown in the AISC code, load table 11.10.2. This provision may be reduced only where specifically permitted by the engineer.
7. All beams and girders having moment connections shall be provided with shear connections at least equal to the wind shear plus 110% of the gravity shear. Provision for wind shear shall be made for those cases where the wind shear exceeds the design dead load shear.
8. Where beams are butt welded directly to columns, such welding shall be completed prior to making up shear connections.

FLOOR	LOW BUILDING COLUMN SCHEDULE																							
	9A	9B	9C	9D	9E	9F	9G	9H	9I	9J	9K	9L	9M	9N	9O	9P	9Q	9R	9S	9T	9U	9V	9W	9X
PLAZA 2nd FLOOR																								
1st FLOOR																								
CONCOURSE A																								
CONCOURSE B																								
BILLETS																								

NO.	DATE	DESCRIPTION
1	1/20/72	REVISED WITH COL. BC-SI (19th FL. THRU MAIN ROOF)
2	6-26-72	REVISED TYPICAL SPANDREL BEAM CUT DETAIL AS CALLED OUT

REMAINING PAGES RELEASED FOR ORDERING & DETAILING 6-11-72  
 RELEASED FOR ORDERING & DETAILING 10-19-71

ISSUED TO: NO. DATE: PRG. NO.

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PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
 919 THIRD AVENUE N.Y. N.Y. 10022

THE OFFICE OF JAMES RUBERMAN STRUCTURAL ENGINEERS  
 315 MADISON AVENUE N.Y. N.Y. 10022

JAROS, BAUM & BOLLE'S MECHANICAL ENGINEERS  
 345 PARK AVENUE N.Y. N.Y. 10022

STEEL DETAILS, LOW BUILDING COLUMN SCHEDULE & NOTES

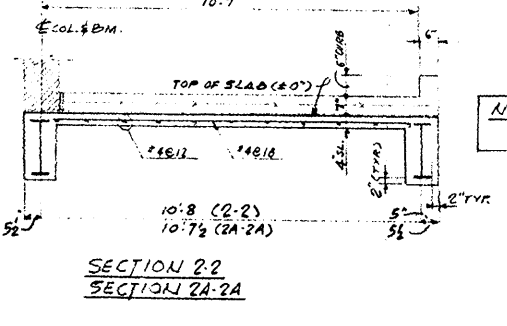
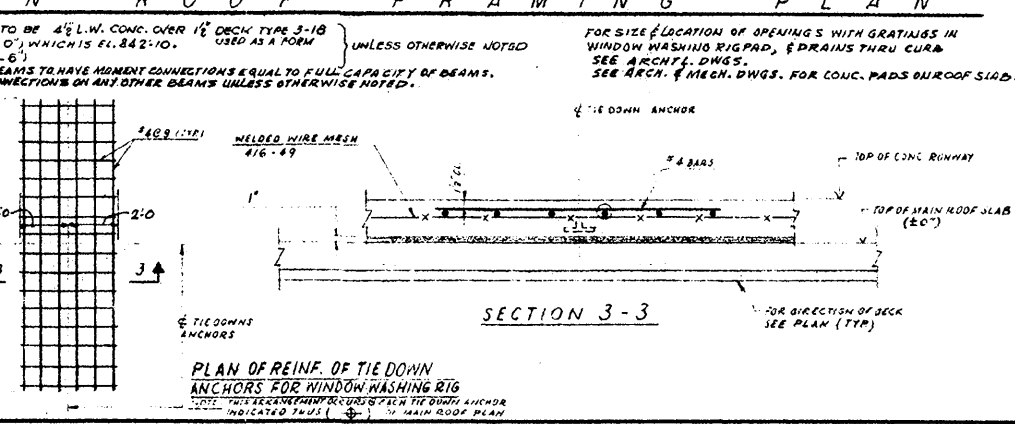
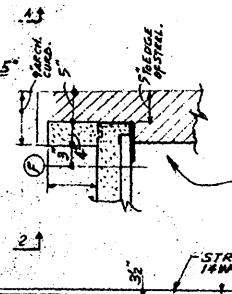
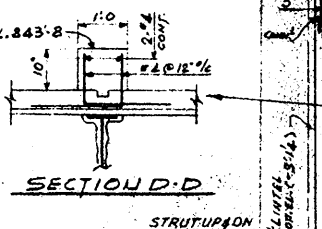
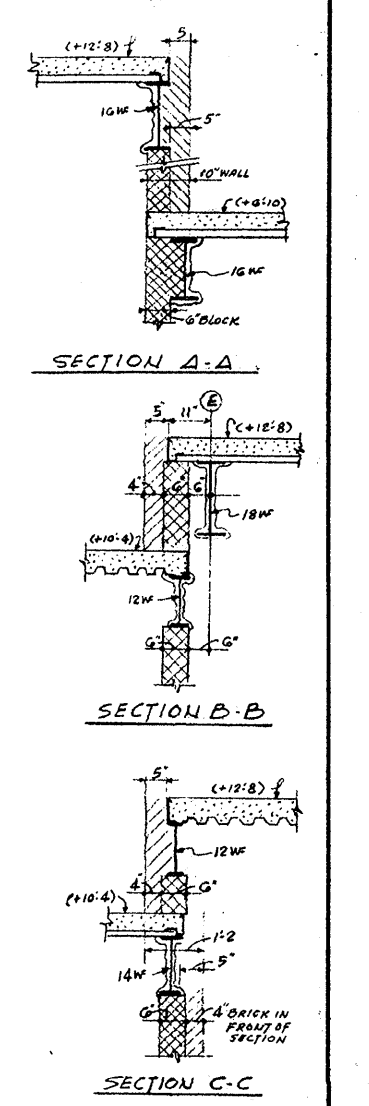
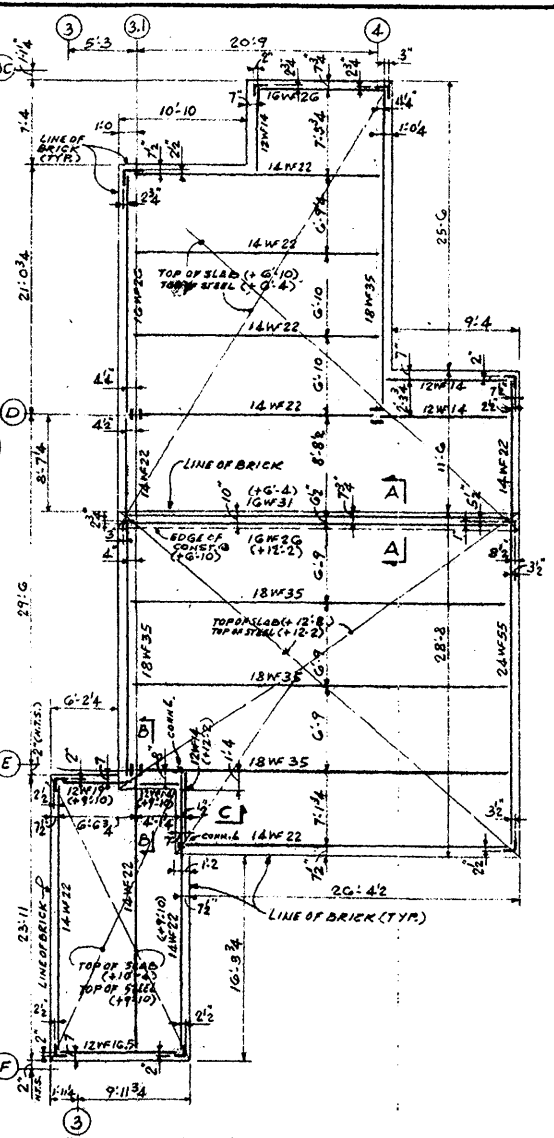
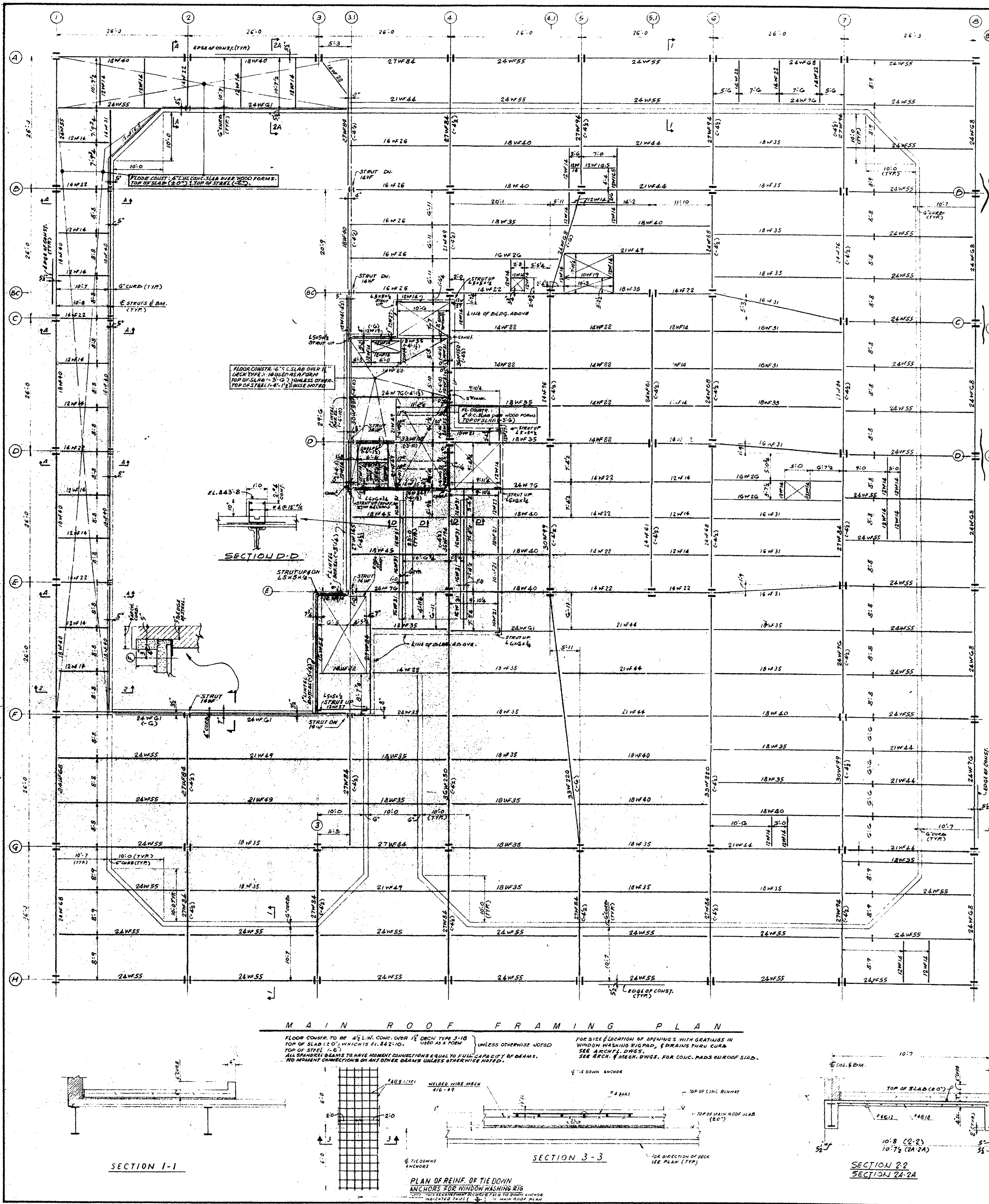
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DRAWING NUMBER S-30

DATE

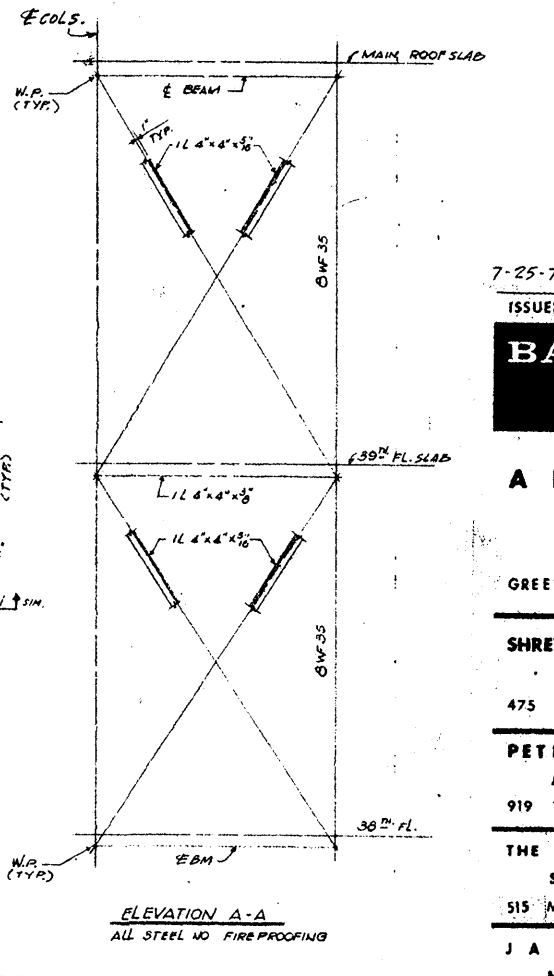
SCALE





**BULKHEAD ROOF FRAMING PLAN**  
 TOP OF SLAB IS INDICATED  
 ELEVATIONS INDICATED (+) ABOVE MAIN ROOF SLAB AL. BASELINE  
 FLOOR JOIST: 4" L.W. CONC. SLAB OVER 1/2" DECK (TYP.) USED AS A FORM.

**MAIN ROOF FRAMING PLAN**  
 FLOOR JOIST TO BE 4" L.W. CONC. OVER 1/2" DECK TYPE 3-10 TOP OF SLAB IS 0" WHICH IS AL. BASELINE TOP OF STEEL (C-6) UNLESS OTHERWISE NOTED  
 ALL SPANNER BEAMS TO HAVE MOMENT CONNECTIONS AS TO FULL CAPACITY OF BEAMS. NO MOMENT CONNECTIONS ON ANY OTHER BEAMS UNLESS OTHERWISE NOTED.  
 FOR SIZE & LOCATION OF OPENINGS WITH GRATINGS IN WINDOW WASHING RIG PAD, & DRAINS THRU CURB SEE ARCH. DWGS. FOR CONC. PADS SURROUNDING.  
 1/4" DIA. ANCHOR  
 TOP OF CONC. RUNWAY  
 TOP OF MAIN ROOF SLAB (E.C.)  
 PLAN OF REINF. OF TIE DOWN ANCHORS FOR WINDOW WASHING RIG  
 SEE ARCH. DWGS. FOR CONC. PADS SURROUNDING.  
 SEE DIRECTION OF JACK SEE PLAN (TYP.)



**ELEVATION A-A**  
 ALL STEEL W/ FIRE PROOFING

REVISIONS		
NO.	DATE	DESCRIPTION

7-25-72 RELEASED FOR ORDERING & DETAILING.

ISSUED TO	NO.	DATE	PKG. NO.

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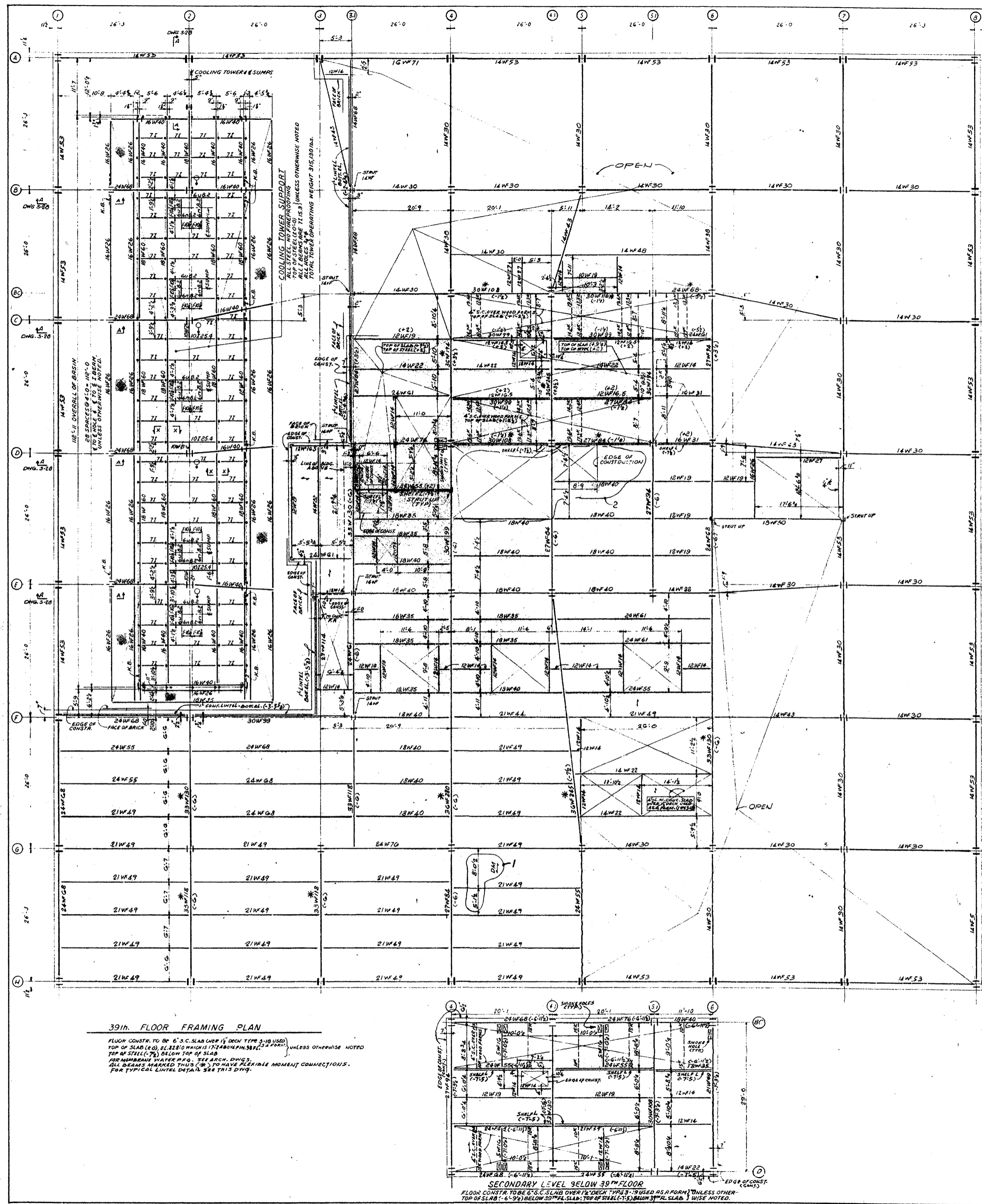
PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
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THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
 515 MADISON AVENUE N.Y. N.Y. 10022

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**MAIN ROOF FRAMING PLAN**

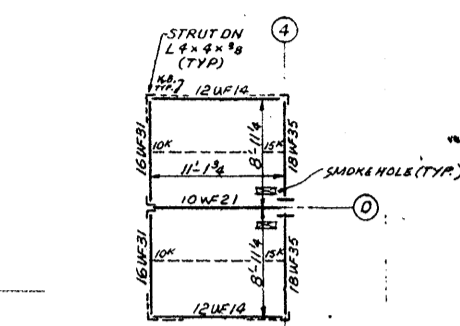
PROJECT NUMBER	7101
DRAWING NUMBER	S-28
DATE	
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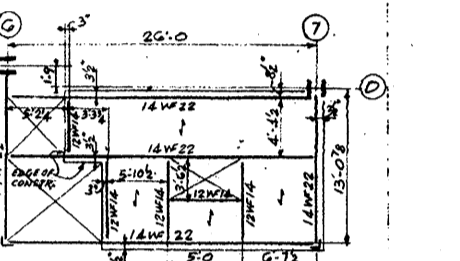
**ELEVATOR NOTES:**

1. SLABS MARKED "X" ARE TO BE POUNDED AFTER SHEAVE BEAMS ARE IN PLACE.
2. SHEAVE BEAM REACTIONS HAVE BEEN DOUBLED FOR IMPACT.
3. BEAMS SUPPORTING SHEAVE BEAMS HAVE BEEN DESIGNED FOR A LIVE LOAD OF 18,000 P.S.F. DUE TO SHEAVE BEAM REACTIONS.
4. FOR SITE LOCATION OF SMOKE HOLES SEE ELEVATOR SHOP DRAWINGS.

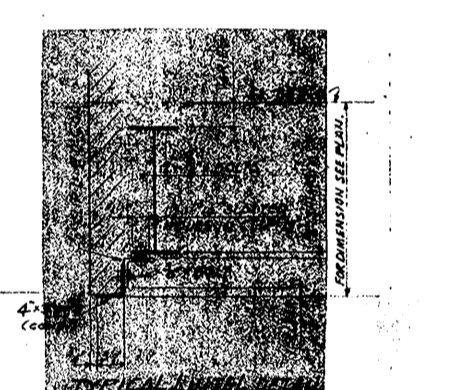
NO.	DATE	DESCRIPTION
1	8-29-72	REVISED DRAWING FOR CONSTRUCTION NOISE AS SPECIFIED
2	12-14-72	REVISED TO ACCOMMODATE NEW MECHANICAL OPENINGS AS CIRCLED



**SECONDARY LEVEL PART FRAMING PLAN.**  
FLOOR CONST. TO BE 4" S.C. SLAB OVER WOOD FORMS.  
TOP OF SLAB (+5.0') ABOVE 39TH FL. SLAB.  
TOP OF STEEL (+4.70') ABOVE 39TH FL. SLAB.



**ROOF FRAMING PLAN OVER STAIR W/2.**  
ROOF CONST. TO BE 4" W. CONC. OVER 1" DECK USED AS FORM.  
TOP OF SLAB (+1.5') ABOVE 39TH FL. SLAB.  
TOP OF STEEL (+1.35').



10-13-72 COOLING TOWER SUPPORT PREVIOUSLY MARKED "HOLD" RELEASED FOR ORDERING & DETAILING.  
7-14-72 RELEASED FOR ORDERING & DETAILING OF STRUCT. STEEL EXCEPT AREA MARKED "HOLD".

ISSUED TO	NO.	DATE	PRG. NO.

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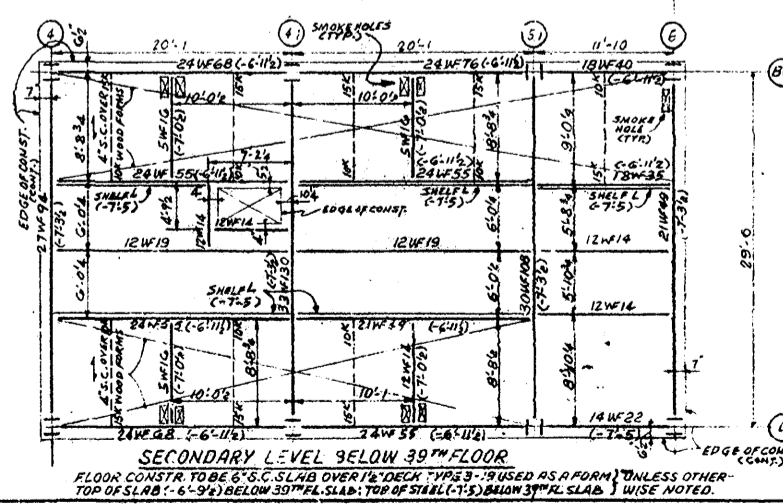
**JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS**  
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**39th FLOOR FRAMING PLAN**

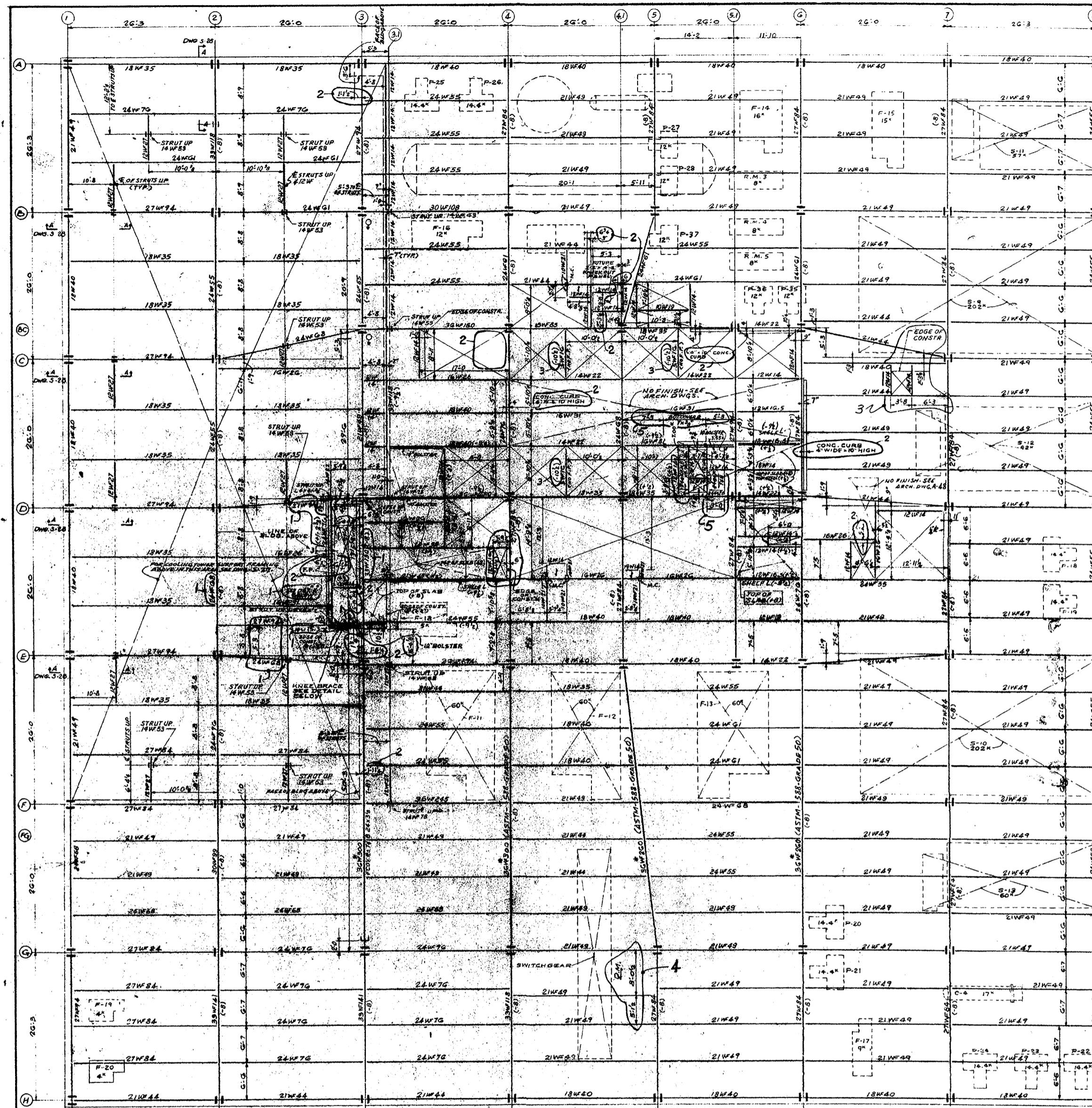
PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-27</b>
DATE	
SCALE	

NOTE: ALL ELEVATIONS SHOWN THUS (+...) ARE ABOVE OR BELOW EL. 328.0 WHICH IS 11'-2" ABOVE FIN. 28TH FLOOR.

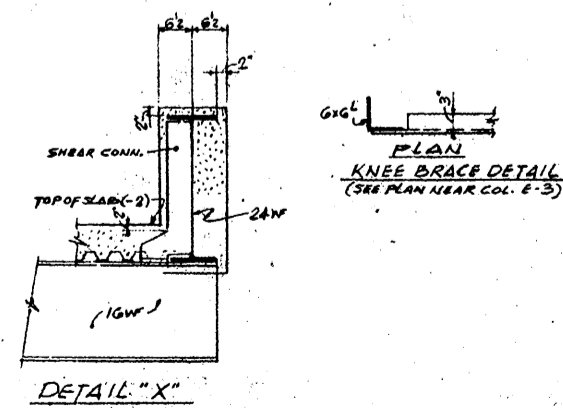
**39th FLOOR FRAMING PLAN**  
FLOOR CONST. TO BE 6" S.C. SLAB OVER 1" DECK TYPE 3 (18 USED) UNLESS OTHERWISE NOTED.  
TOP OF SLAB (+5.0') ABOVE FIN. 28TH FLOOR.  
TOP OF STEEL (+4.70') ABOVE FIN. 28TH FLOOR.  
FOR MEMBER WATER P.F.O. SEE ARCH. DWGS.  
ALL BEAMS MARKED THUS (C-1) TO HAVE RECEIVABLE MOMENT CONNECTIONS.  
FOR TYPICAL LINTEL DETAIL SEE THIS DWG.



**SECONDARY LEVEL BELOW 39th FLOOR**  
FLOOR CONST. TO BE 6" S.C. SLAB OVER 1" DECK TYPE 3 (18 USED AS A FORM) UNLESS OTHERWISE NOTED.  
TOP OF SLAB (+1.5') ABOVE 39TH FL. SLAB.  
TOP OF STEEL (+1.35') ABOVE 39TH FL. SLAB.



38TH FLOOR FRAMING PLAN



NOTES:  
 1. FLOOR CONST. 6" S.C. SLAB OVER 1 1/2" STEEL DECK TYPE 3-18 USED AS A FORM.  
 2. TOP OF STEEL (-9") BELOW FIN. FLOOR.  
 3. TOP OF SLAB (-2") BELOW FIN. FLOOR.  
 4. FOR SIZE & LOCATION OF ROUNDS, RECESSES, CURBS ETC. SEE ARCHT. DWGS.  
 5. BEAMS MARKED THIS (B) TO HAVE FLEXIBLE MOMENT CONNECTIONS.  
 6. ALL BEAMS TO HAVE MOMENT CONNECTIONS EQUAL TO BEAM CAPACITY.

REVISIONS		
NO.	DATE	DESCRIPTION
1	6-12-72	REVISED AS CIRCLED C-1
2	7-10-72	ADDED BEAM AT HOOKOUT PANEL NEAR COL. 2C-1, AND REMOVED 3 BEAMS NEAR COL. 2C-1. AS CIRCLED C-2. ADDED BEAM & SPACING NEAR COL. 2C.
3	8-4-72	REVISED ELEVATION OF SHEAR BEAMS BETWEEN ELEVATOR SHAFTS. ADDED OPENING NEAR COL. C-7. REVISED AS CIRCLED C-3.
4	8-29-72	ADDED BM. NEAR COL. 2C-5 FOR CONSTRUCTION POINT AS CIRCLED C-4.
5	10-13-72	DMV ADDED COOLING TOWER SUPPORT.
6	12-1-72	ADDED BEAM NEAR COL. D-5 FOR COVERING DRIVE LOADS. ADDED BOTTOM COVER B. REVISED C-5.

6-5-72 RELEASED FOR ORDERING & DETAILING.  
 ISSUED TO: NO. DATE: PKG. NO.

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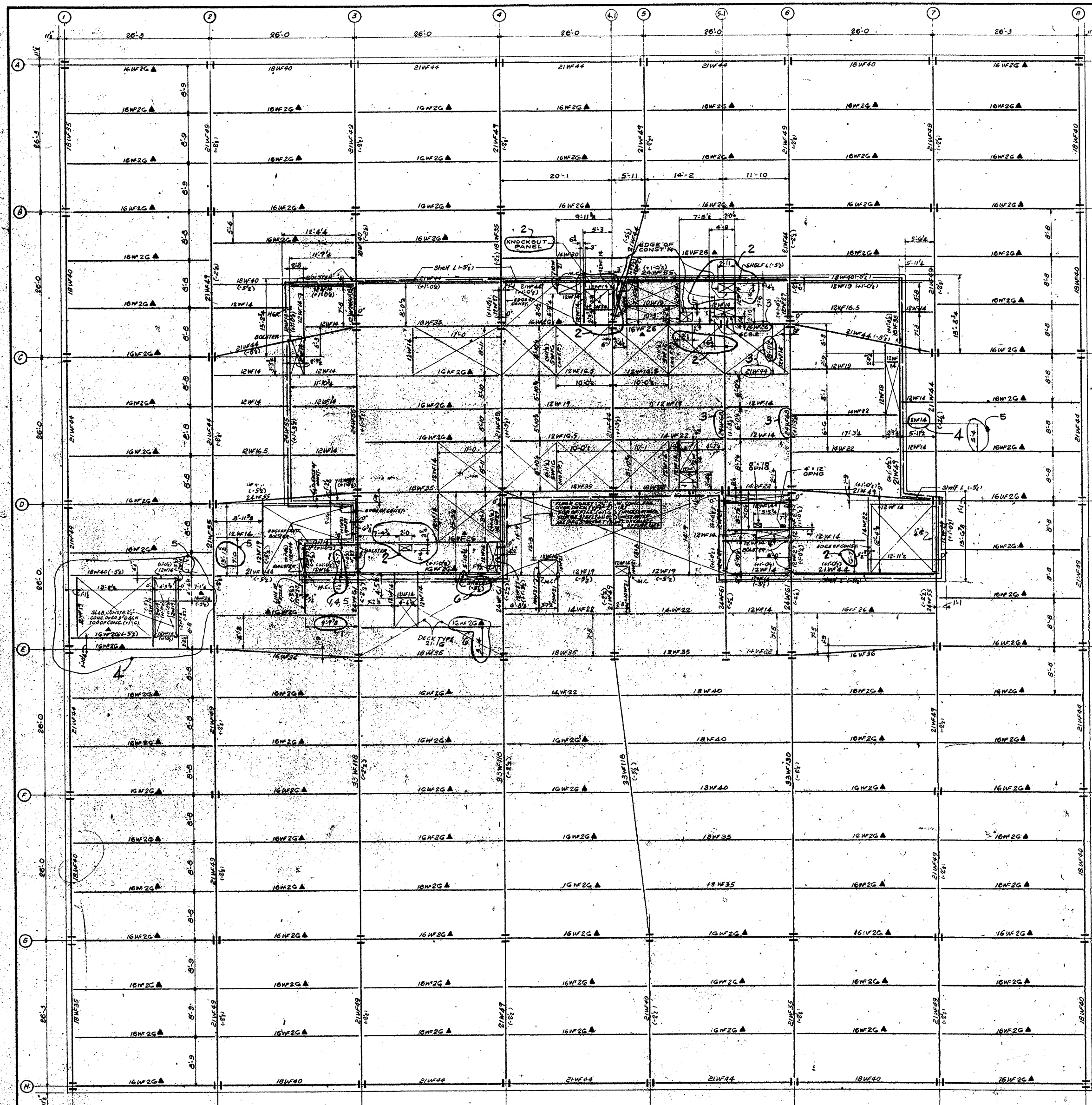
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J. A. ROSS, BAUM & BOLLES MECH. & ELEC. ENGINEERS  
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**38TH FLOOR FRAMING PLAN**

PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-26</b>
DATE	
SCALE	





37<sup>TH</sup> FLOOR FRAMING PLAN

NOTES:  
 1. FLOOR CONCRETE TO BE 3" MIN. CONC. ALL OVER UNLESS OTHERWISE NOTED.  
 2. TOP OF CONC. ALL (100) DOOR TYPE ENDS.  
 3. TOP OF STEEL -5'11" ±.  
 4. FOR TYPICAL DETAILS SEE DWG. 18-2-33.  
 5. THE SECTION IS IDENTIFIED BY NUMBER PORTION OF BEAM SHEETING S-24.  
 6. (Δ) INDICATES BEAMS TO BE OF A192GR. 50 STEEL.

REVISIONS		
NO.	DATE	DESCRIPTION
1	6-8-72	REVISED AS CIRCLED C-1
2	7-10-72	REVISED AS CIRCLED C-2
3	8-8-72	CHANGED BEAM SIZES FOR STAIR ELEVATORS NEAR COL. E1 AND C-10. REVISED AS CIRCLED C-3
4	10-2-72	ADDED FRAMING FOR STAIR NEAR COL. E1. ADDED BEAMS NEAR COL. C7 AS PER S.L.H. DWG. NCS-84 DATED 9-25-72. I.B.M. DWG. NO. 97-C DATED 6-4-72. ALL AS CIRCLED C-4
5	10-25-72	REVISED AS CIRCLED C-5
6	12-19-72	ADDED DOWN WATER RUNNING NEAR COL. E-9 AS PER S.L.H. DWG. NCS-84 DATED 9-25-72. I.B.M. DWG. NO. 97-C DATED 6-4-72. ALL AS CIRCLED C-6

5-1-72: RELEASED FOR ORDERING CONTAINING OF STEEL.

ISSUED TO:	NO.:	DATE:	PROJ. NO.:

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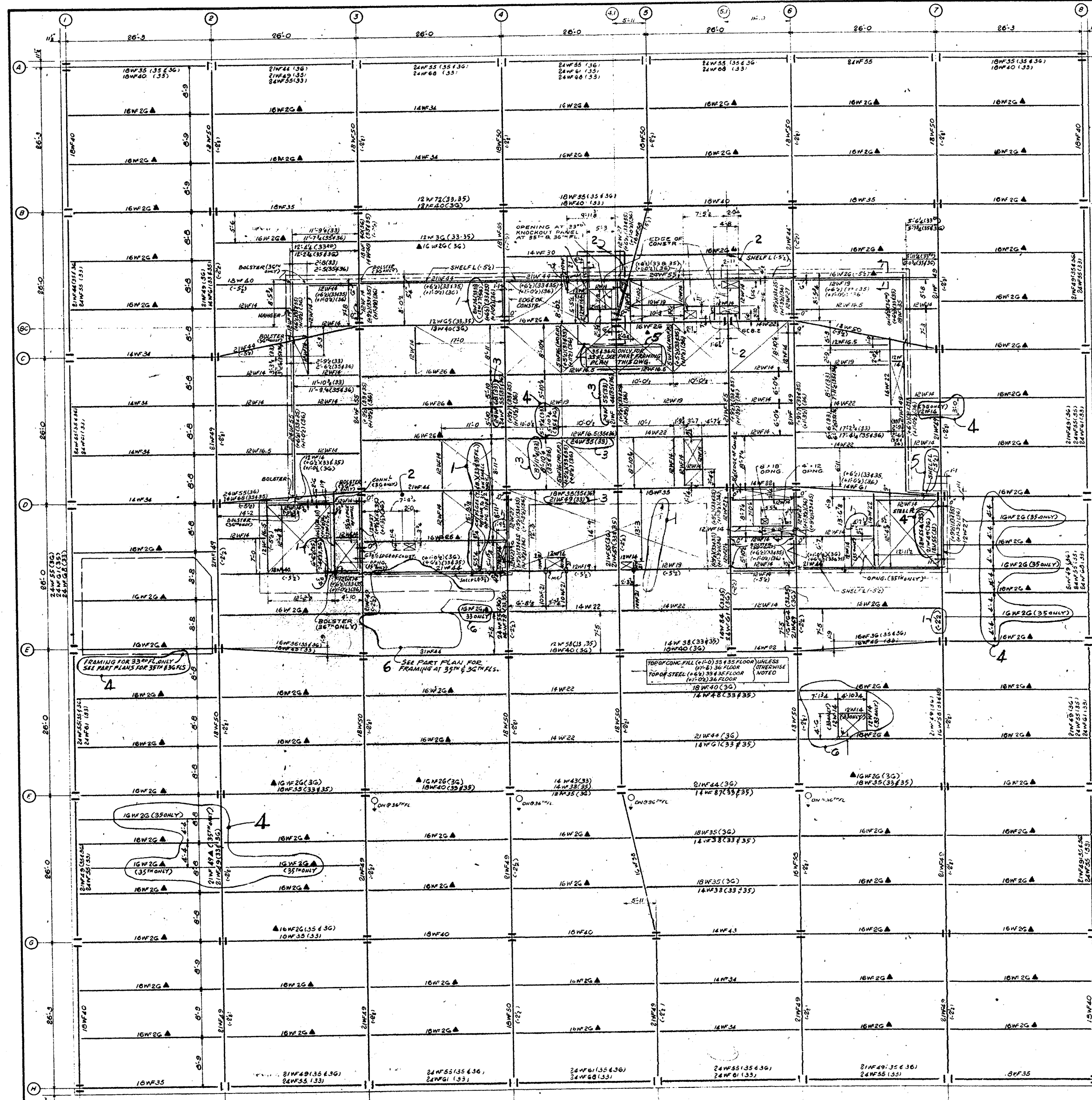
PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
 919 THIRD AVENUE N.Y. N.Y. 10022

THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
 313 MADISON AVENUE N.Y. N.Y. 10022

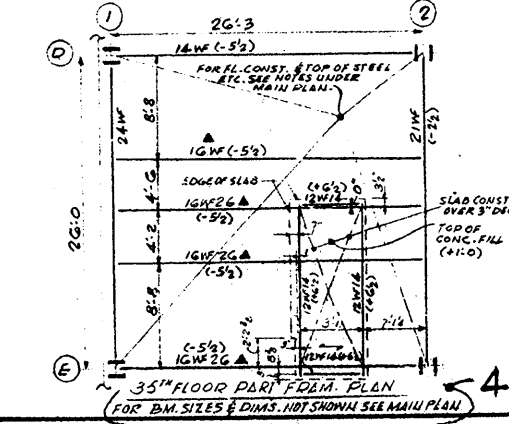
J. A. ROSS, BAUM & BOLLE'S MECH. & ELEC. ENGINEERS  
 345 PARK AVENUE N.Y. N.Y. 10022

37<sup>TH</sup> FLOOR FRAMING PLAN  
 37/FLOOR

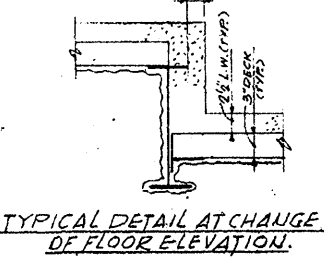
	PROJECT NUMBER
	7101
	DRAWING NUMBER
	S-25
	DATE
	SCALE



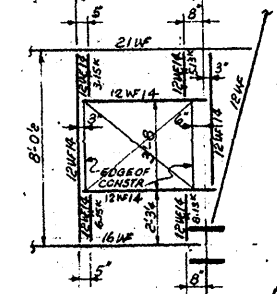
33<sup>RD</sup> 35<sup>TH</sup> FLOOR FRAMING PLAN



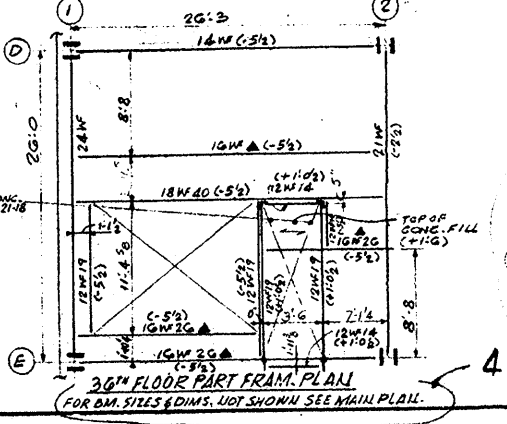
SECTION 1-1



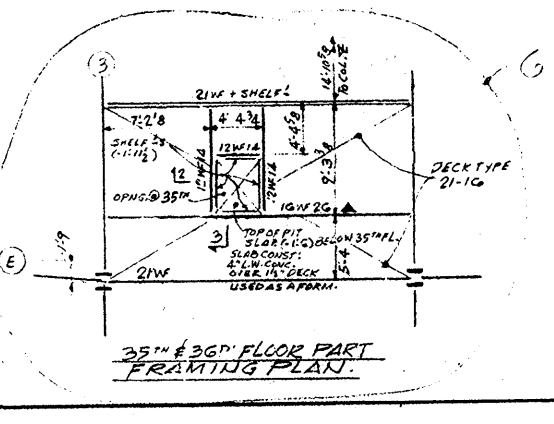
TYPICAL DETAIL AT CHANGE OF FLOOR ELEVATION



PART 33<sup>RD</sup> FLOOR FRAMING PLAN



33<sup>RD</sup> FLOOR PART FRAMING PLAN



35<sup>TH</sup> & 36<sup>TH</sup> FLOOR PART FRAMING PLAN

- NOTES:
- FLOOR CONSTR TO BE 8" L.W. CONC. FILL OVER 8" CONC. TYPE 8/10
  - TOP OF CONG. FILL (120)
  - TOP OF STEEL (105)
  - FOR TYPICAL DETAILS SEE DWG. NO. S-33
  - (A) INDICATES BEAMS ARE A572 GR. 50 STEEL.

REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-72	REVISED SHEET NEAR COL. D-2 & 3 AS CIRCLED C-1
2	7-10-72	REVISED OPENINGS NEAR COL. D-1, D-2, D-3, D-4, AS CIRCLED C-2
3	8-4-72	CHANGED BEAM SIDES FOR TEMA ELEVATORS NEAR COL. D-1 & D-4) REVISED AS CIRCLED C-3
4	9-2-72	ADDED PART PLANS @ 35 1/2" FLOOR FOR STAIRS REV. AREA NEAR COL. G-2 & F-1 AS PER SK. NO. 241 DATED 7-25-72 & SHK. DWG. 35-C-136 C DATED 6-16-72 ALL AS CIRCLED C-4
5	12-1-72	ADDED BEAMS FOR COVERED DRIVE (PARTS 33 <sup>RD</sup> & 34 <sup>TH</sup> FLOOR FRAMING PLAN), 10W18 & 10W20 COL. D-7 & D-5
6	12-19-72	ADDED DRAINWATER OPENINGS NEAR COLS. E & G, F.G. 10W33 <sup>RD</sup> FLOOR. ADDED DRAINWATER OPENINGS NEAR COLS. E & G, F.G. 10W33 <sup>RD</sup> FLOOR. ON 35 <sup>TH</sup> & 36 <sup>TH</sup> FLOORS WITH 10" 35" REVISED FRAMING AS PER S.L. DWG. A-92 DATED 10-12-72. ALL AS CIRCLED C-5.

4-11-72 RELEASED FOR ORDERING & DETAILING

ISSUED TO	NO.	DATE	PKG. NO.
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THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
315 MADISON AVENUE N.Y. N.Y. 10022

J. A. ROSS, BAUM & BOLLES MECH. & ELEC. ENGINEERS  
345 PARK AVENUE N.Y. N.Y. 10022

33<sup>RD</sup> 35<sup>TH</sup> & 36<sup>TH</sup> FLOOR FRAMING PLAN

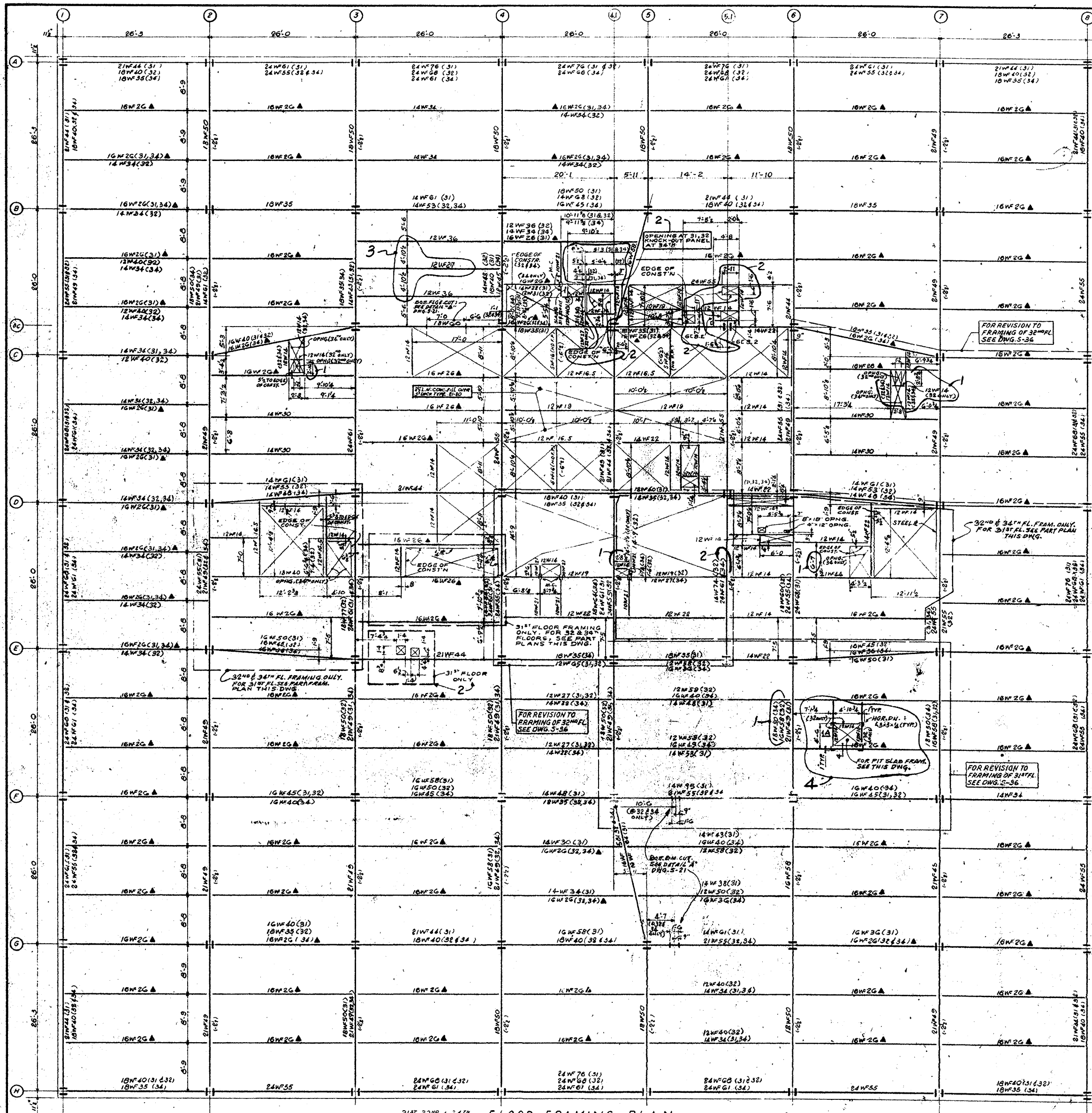
PROJECT NUMBER 7101

DRAWING NUMBER **S24**

DATE

SCALE

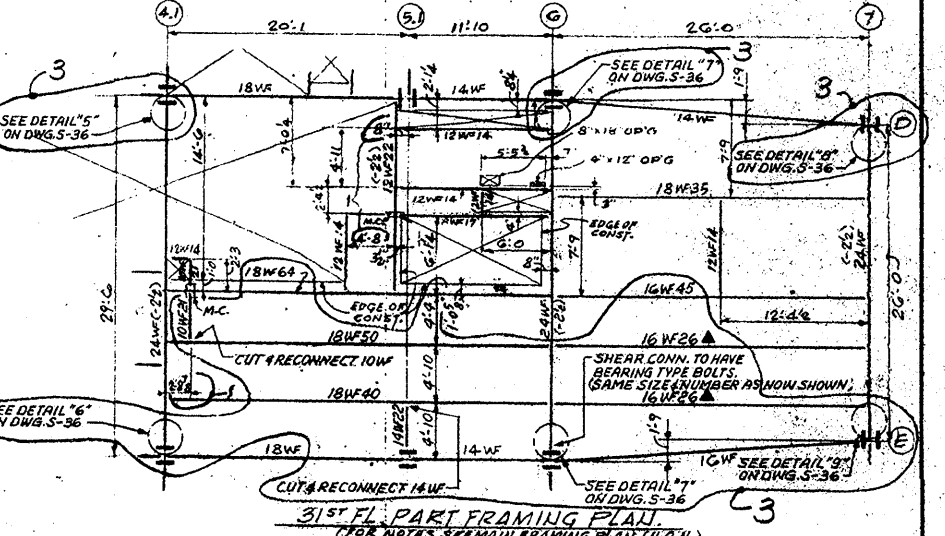




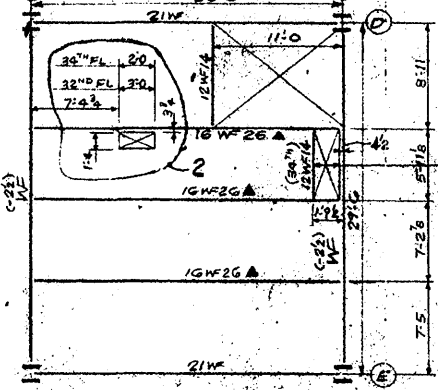
31<sup>st</sup>, 32<sup>nd</sup> & 34<sup>th</sup> FLOOR FRAMING PLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	4-11-72	REVISED AS CIRCLED 1
2	7-10-72	REVISED AS PER LATEST DIM. DIM. (PLATE DATED 11-9-72) (BY P.L. DUNN)
3	12-7-72	ADDED DIMENSIONAL INFORMATION AT 32 <sup>nd</sup> FLOOR AS PER LATEST DIM. DIM. (PLATE DATED 11-9-72) (BY P.L. DUNN)
4	12-19-72	ADDED DIMENSIONAL INFORMATION AT 31 <sup>st</sup> FLOOR AS PER LATEST DIM. DIM. (PLATE DATED 11-9-72) (BY P.L. DUNN)

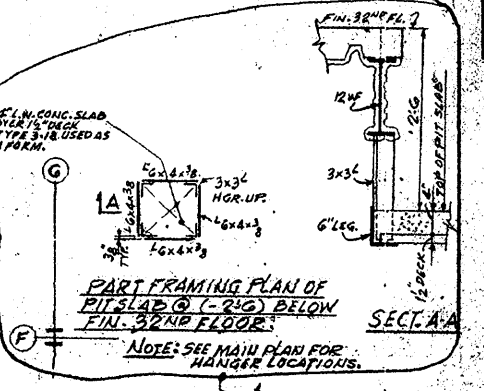
31<sup>st</sup> FL PART FRAMING PLAN  
FOR NOTES SEE MAIN FRAMING PLAN (10-0-0)



31<sup>st</sup> FL PART FRAMING PLAN  
FOR NOTES SEE MAIN FRAMING PLAN (10-0-0)



32<sup>nd</sup> & 34<sup>th</sup> FL PART FRAMING PLAN



PART FRAMING PLAN OF BEARING WALL (C-25) BELOW FIN. 32<sup>nd</sup> FLOOR  
NOTE: SEE MAIN PLAN FOR MEMBER LOCATIONS

- NOTES:
- FLOOR CONSTR. TO BE 8" L.V. CONC. FULL OVER DOCK TYPES 8" x 8" MAX 10-80
  - TOP OF CONC. FULL TO 1" BELOW TOP OF STEEL (10-81)
  - TOP OF STEEL (10-81)
  - FOR FINISH, DETAILS SEE DWG. S-35
  - (A) INDICATES BEAMS ARE 18" x 20" x 30" STEEL.

3-27-72. REVISED FOR DRAWING & DETAILING.  
ISSUED TO: NO. DATE PKG. NO.

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

SHREVE, LAMB & HARMON ASSOCIATES P.C.  
ARCHITECTS  
475 PARK AVENUE SOUTH N.Y. N.Y. 10014

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
919 THIRD AVENUE N.Y. N.Y. 10022

THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
515 MADISON AVENUE N.Y. N.Y. 10022

F. A. ROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS  
345 PARK AVENUE N.Y. N.Y. 10022

31<sup>st</sup>, 32<sup>nd</sup> & 34<sup>th</sup> FLOOR FRAMING PLANS

PROJECT NUMBER  
**7101**

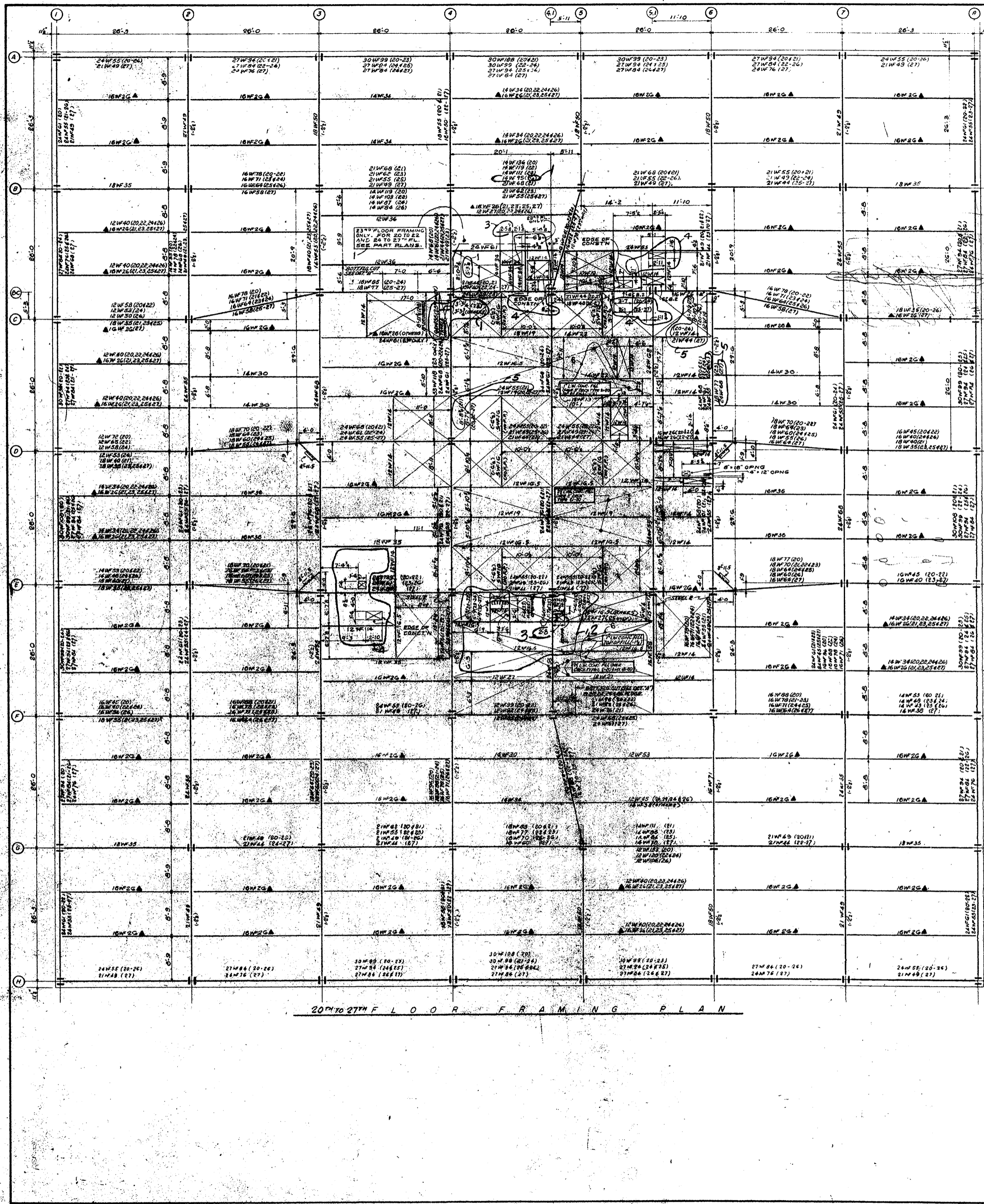
DRAWING NUMBER  
**S23**

DATE

SCALE

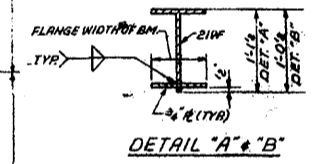






REVISIONS		
NO.	DATE	DESCRIPTION
1	3-7-72	REVISED AS CIRCLED 1
2	3-15-72	REVISED AS CIRCLED 2
3	4-6-72	CHANGED BEAM SIZES NEAR ELEVATOR SHAFTS NEAR COL. 10 AS CIRCLED 3. ALL REVISED AS CIRCLED 3.
4	7-10-72	ADDED OPENINGS NEAR COL. 10 AS CIRCLED 4. BEAMS NEAR COL. 10 REVISED AS CIRCLED 4.
5	8-4-72	CHANGED BEAM SIZES FOR TENN. ELEVATORS NEAR COL. 10-11-12 REVISED AS CIRCLED 5.
6	1-8-73	ADDED CORRECTIONS IN SLAB NEAR COL. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 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.

PART FRAMING PLAN  
(20th to 27th & 24th to 27th FLOORS)  
(FOR PART'S LOT SHOWN SEE MAIN PLAN.)



1-24-72 REMAINDER OF PLAN RELEASED FOR ORDERING & DETAILING  
1-12-72 RELEASED FOR DRAWINGS, DETAILING SPANDECK BEAMS ONLY

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N. Y. N. Y.

SHREVE, LAMB & HARMON ASSOCIATES INC. ARCHITECTS  
475 PARK AVENUE SOUTH N. Y. N. Y. 10016

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
919 THIRD AVENUE N. Y. N. Y. 10022

THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
315 MADISON AVENUE N. Y. N. Y. 10022

JAROS, BAUM & BOLLE MECH. & ELEC. ENGINEERS  
345 PARK AVENUE N. Y. N. Y. 10022

- NOTES:
- FLOOR CONCRETE TO BE 4" L.V. CONC. FILL OVER 4" CONC. TYPE 1-10'S WITH 10-20
  - TOP OF CONC. FILL 10'
  - TOP OF STEEL - 85'
  - TOP TYPICAL DETAILS ARE SHOWN ON S-35
  - TOP OF CONCRETE FLOOR AT TOILETS AND SERVICE CLOSETS
  - (A) INDICATES BEAMS ARE A372 GR. 50 STEEL.

20th to 27th FLOOR FRAMING PLAN

20th to 27th FLOOR FRAMING PLAN

PROJECT NUMBER  
**7101**

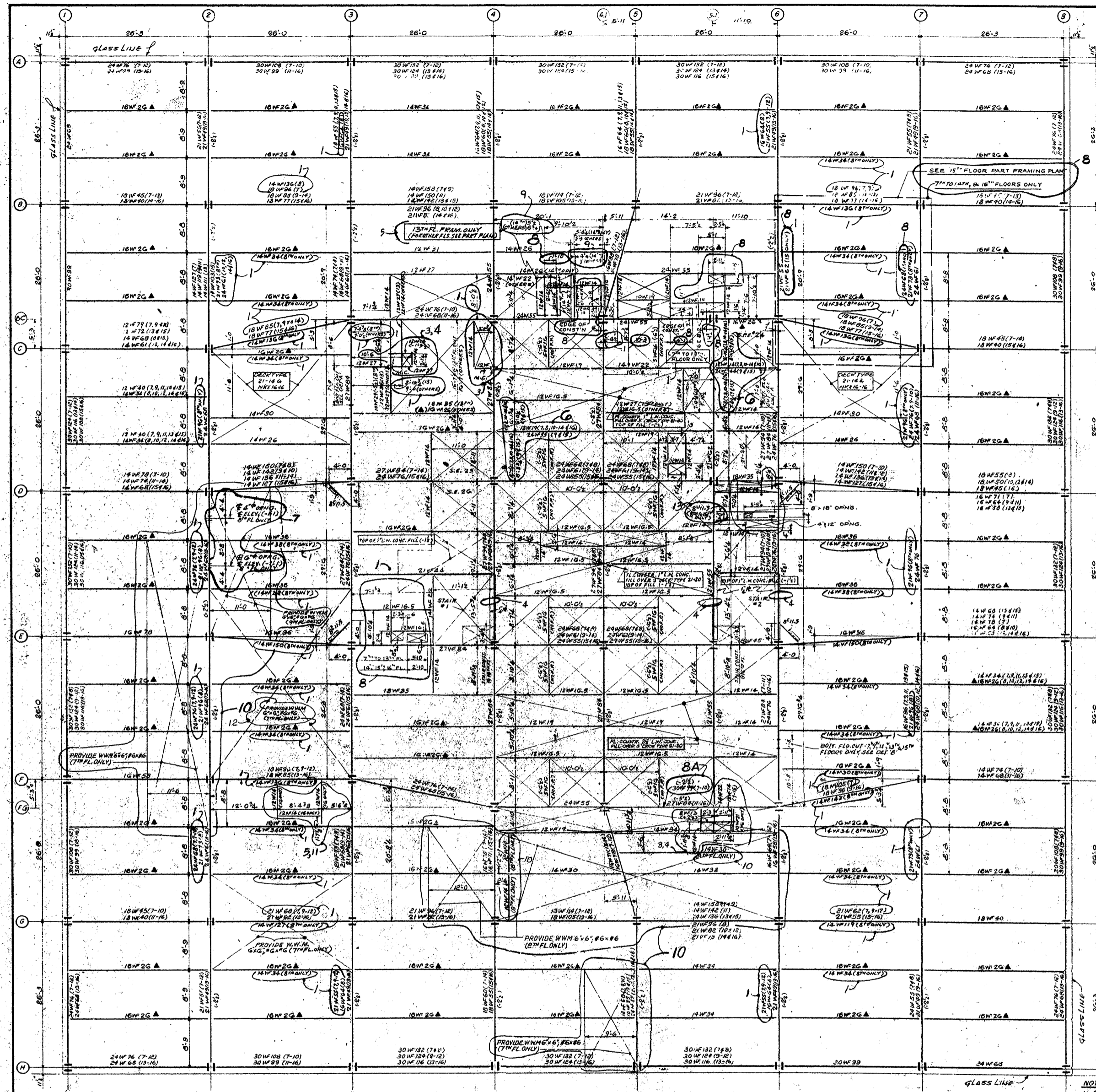
DRAWING NUMBER  
**S 21**

DATE

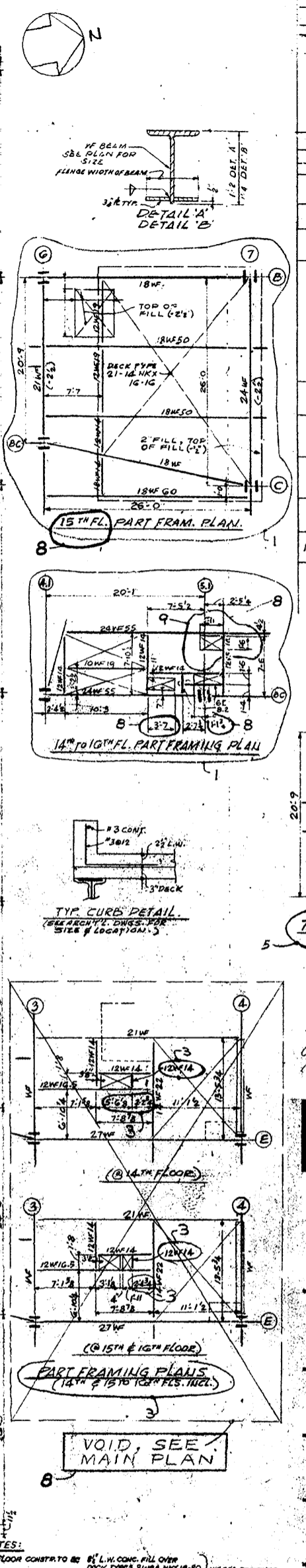
SCALE







7<sup>TH</sup> TO 10<sup>TH</sup> FLOOR FRAMING PLAN



REVISIONS			
NO.	DATE	DESCRIPTION	PKG. NO.
1	12-13-71	REVISED BY PL. STEEL TO ACCOMMODATE REVISED TRADING COUDES & MEDICAL AREAS - 10" PL. FRAMING TO ACCOMMODATE VALVE - FRAMING MODIFIED TO REFLECT THE LATEST SIZES. GENERAL REVISIONS - ALL REFERENCED.	
2	1-11-72	REVISED AS CIRCLED C-2	
3	3-7-72	REVISED AS CIRCLED C-3	
4	3-12-72	REVISED AS CIRCLED C-4	
5	4-6-72	REVISED AREA NEAR COL. DC-41. GARDER PART BEAM - ALL REFERENCED TO DIMENSIONAL PART BEAM - ALL REFERENCED TO 7" TO 10" PL. PART FRAMING PLAN.	
6	MAY 1-72	ADDED DIMENSION NEAR COL. DC-41. CHANGED BEAM SIZE BETWEEN COLUMNS DC-41 & DC-42. AS CIRCLED C-5. "10" PL. PART FRAMING PLAN" CHANGED TO "10" PL. PART FRAMING PLAN".	
7	5-22-72	REVISED 10" TO 10" PL. PART FRAMING PLAN. REVISED OPENINGS NEAR COLUMN DC-41, DC-42, DC-43, DC-44, DC-45, DC-46, DC-47, DC-48, DC-49, DC-50, DC-51, DC-52, DC-53, DC-54, DC-55, DC-56, DC-57, DC-58, DC-59, DC-60, DC-61, DC-62, DC-63, DC-64, DC-65, DC-66, DC-67, DC-68, DC-69, DC-70, DC-71, DC-72, DC-73, DC-74, DC-75, DC-76, DC-77, DC-78, DC-79, DC-80, DC-81, DC-82, DC-83, DC-84, DC-85, DC-86, DC-87, DC-88, DC-89, DC-90, DC-91, DC-92, DC-93, DC-94, DC-95, DC-96, DC-97, DC-98, DC-99, DC-100.	
8	6-22-72	REVISED 10" TO 10" PL. PART FRAMING PLAN. REVISED OPENINGS NEAR COLUMN DC-41, DC-42, DC-43, DC-44, DC-45, DC-46, DC-47, DC-48, DC-49, DC-50, DC-51, DC-52, DC-53, DC-54, DC-55, DC-56, DC-57, DC-58, DC-59, DC-60, DC-61, DC-62, DC-63, DC-64, DC-65, DC-66, DC-67, DC-68, DC-69, DC-70, DC-71, DC-72, DC-73, DC-74, DC-75, DC-76, DC-77, DC-78, DC-79, DC-80, DC-81, DC-82, DC-83, DC-84, DC-85, DC-86, DC-87, DC-88, DC-89, DC-90, DC-91, DC-92, DC-93, DC-94, DC-95, DC-96, DC-97, DC-98, DC-99, DC-100.	
9	7-10-72	REVISED 10" TO 10" PL. PART FRAMING PLAN. REVISED OPENINGS NEAR COLUMN DC-41, DC-42, DC-43, DC-44, DC-45, DC-46, DC-47, DC-48, DC-49, DC-50, DC-51, DC-52, DC-53, DC-54, DC-55, DC-56, DC-57, DC-58, DC-59, DC-60, DC-61, DC-62, DC-63, DC-64, DC-65, DC-66, DC-67, DC-68, DC-69, DC-70, DC-71, DC-72, DC-73, DC-74, DC-75, DC-76, DC-77, DC-78, DC-79, DC-80, DC-81, DC-82, DC-83, DC-84, DC-85, DC-86, DC-87, DC-88, DC-89, DC-90, DC-91, DC-92, DC-93, DC-94, DC-95, DC-96, DC-97, DC-98, DC-99, DC-100.	
10	8-4-72	MESH REIN. AND BEAMS AS PER BANK DWS. PL. DIMS. S-36 TO PL. DC. DIMS. S-36. REVISED AS CIRCLED C-10.	
11	9-19-72	REVISED STAIR AREA BETWEEN PULL 2 & 3. BEAM COL. LINE AS SHOWN. REVISED AS CIRCLED C-11.	
12	10-4-72	ADDED VESH REIN. NEAR COL. DC-41, DC-42, DC-43, DC-44, DC-45, DC-46, DC-47, DC-48, DC-49, DC-50, DC-51, DC-52, DC-53, DC-54, DC-55, DC-56, DC-57, DC-58, DC-59, DC-60, DC-61, DC-62, DC-63, DC-64, DC-65, DC-66, DC-67, DC-68, DC-69, DC-70, DC-71, DC-72, DC-73, DC-74, DC-75, DC-76, DC-77, DC-78, DC-79, DC-80, DC-81, DC-82, DC-83, DC-84, DC-85, DC-86, DC-87, DC-88, DC-89, DC-90, DC-91, DC-92, DC-93, DC-94, DC-95, DC-96, DC-97, DC-98, DC-99, DC-100.	
13	1-11-73	ADDED BEAM NEAR COL. DC-41, DC-42, DC-43, DC-44, DC-45, DC-46, DC-47, DC-48, DC-49, DC-50, DC-51, DC-52, DC-53, DC-54, DC-55, DC-56, DC-57, DC-58, DC-59, DC-60, DC-61, DC-62, DC-63, DC-64, DC-65, DC-66, DC-67, DC-68, DC-69, DC-70, DC-71, DC-72, DC-73, DC-74, DC-75, DC-76, DC-77, DC-78, DC-79, DC-80, DC-81, DC-82, DC-83, DC-84, DC-85, DC-86, DC-87, DC-88, DC-89, DC-90, DC-91, DC-92, DC-93, DC-94, DC-95, DC-96, DC-97, DC-98, DC-99, DC-100.	

REMAINDER OF FLOOR RELEASED FOR ORDERING & DETAILING. BEAM RELEASED TO COLUMN. BEAM RELEASED FOR ORDERING & DETAILING. 10-25-71

**BANKERS TRUST PLAZA**  
**A FISHER BROTHERS PROJECT**  
 GREENWICH AND LIBERTY ST. N.Y. N.Y.  
**SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS**  
 475 PARK AVENUE SOUTH N.Y. N.Y. 10016  
**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
 919 THIRD AVENUE N.Y. N.Y. 10022  
**THE OFFICE OF JAMES RUPERTMAN STRUCTURAL ENGINEERS**  
 385 MADISON AVENUE N.Y. N.Y. 10022  
**JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS**  
 345 PARK AVENUE N.Y. N.Y. 10022

7<sup>TH</sup> TO 10<sup>TH</sup> FLOOR FRAMING PLAN  
 PROJECT NUMBER  
**7101**  
 DRAWING NUMBER  
**S 19**  
 DATE  
 SCALE

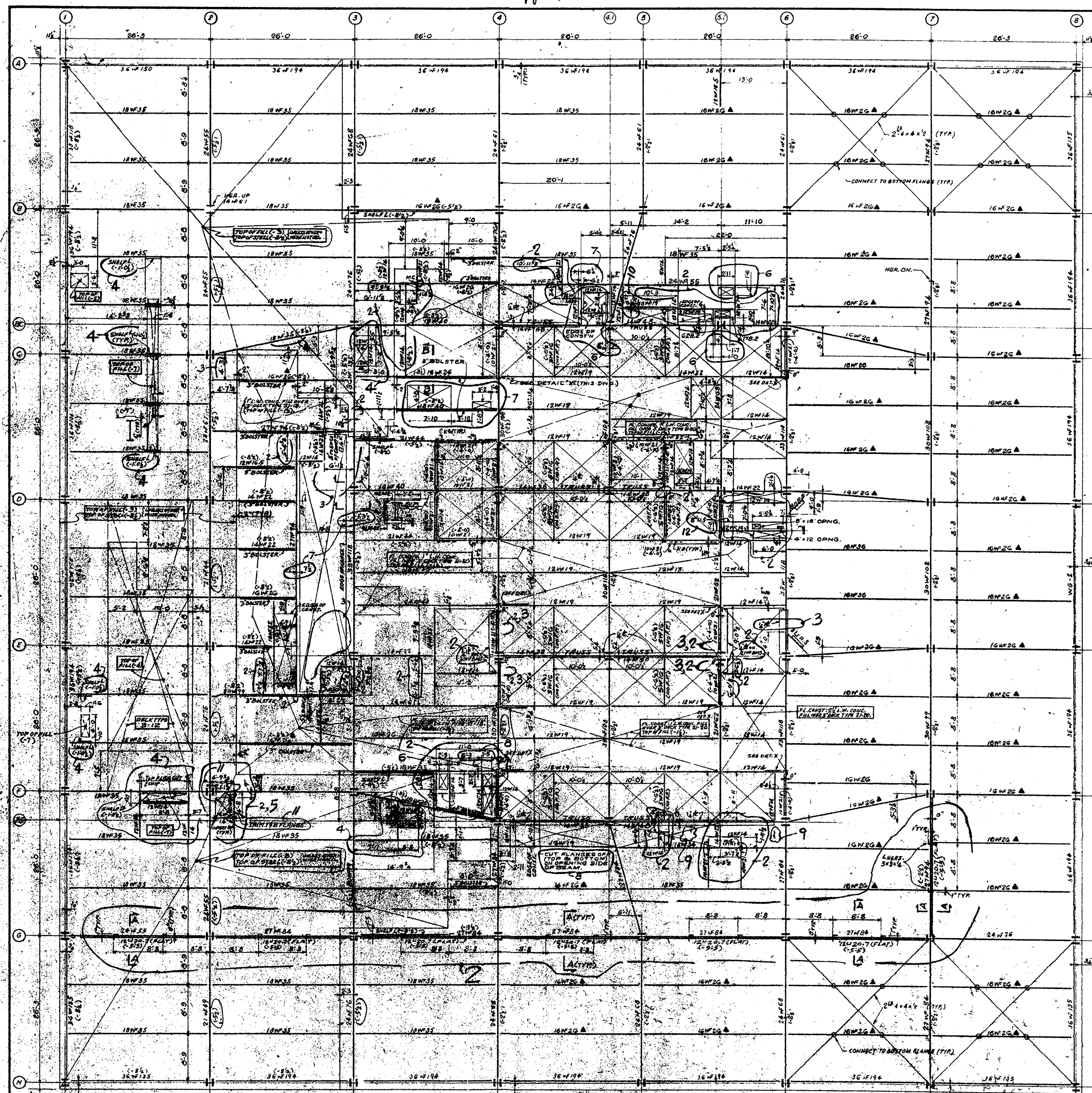






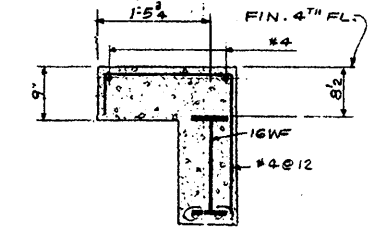
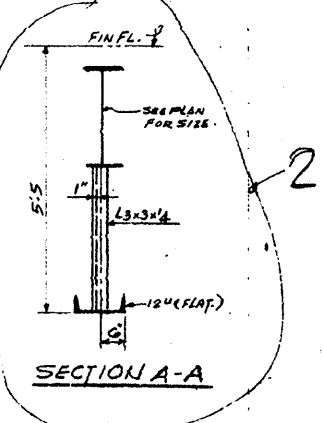
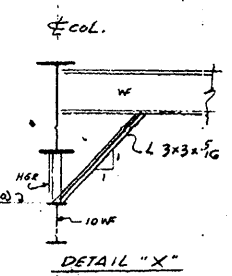






4TH FLOOR FRAMING PLAN

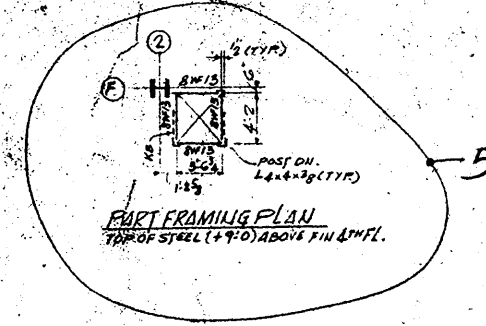
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-23-71	REVISED AS CIRCLED
2	3-7-72	REVISED AS CIRCLED
3	3-20-72	REVISED AS CIRCLED
4	4-3-72	REVISED AS CIRCLED
5	4-11-72	REVISED AS CIRCLED
6	6-22-72	REVISED AS CIRCLED
7	7-10-72	REVISED AS CIRCLED
8	8-4-72	REVISED AS CIRCLED
9	10-12-72	REVISED AS CIRCLED
10	10-26-72	REVISED AS CIRCLED
11	12-1-72	REVISED AS CIRCLED
12	1-12-73	REVISED AS CIRCLED



11-23-71 - REMAINDER OF FLOOR RELEASED FOR COL TO COL. BEAMS RELEASED FOR ORDERING & DETAILING 10-25-71

ISSUED TO: **BANKERS TRUST PLAZA**  
 A FISHER BROTHERS PROJECT  
 GREENWICH AND LIBERTY ST. N.Y. N.Y.  
 SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS  
 475 PARK AVENUE SOUTH N.Y. N.Y. 10016  
 PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
 919 THIRD AVENUE N.Y. N.Y. 10022  
 THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
 515 MADISON AVENUE N.Y. N.Y. 10022  
 J. ARON, BAUM & BOLLES MICHAEL E.C. ENGINEERS  
 345 PARK AVENUE N.Y. N.Y. 10022

- NOTES:
- FLOOR CONCRETE TO BE 8" L.M. CONC. FULL OVER 2" CHOK TIME 8" IS
  - TOP OF CONC. FILL (TO)
  - TOP OF STEEL (TO)
  - FOR TYPICAL DETAILS SEE DWG. S-32.
  - FOR TRUSSES SEE DWG. S-31.
  - (C.A.) INDICATES BEAMS ARE A572GR. 50 STEEL.



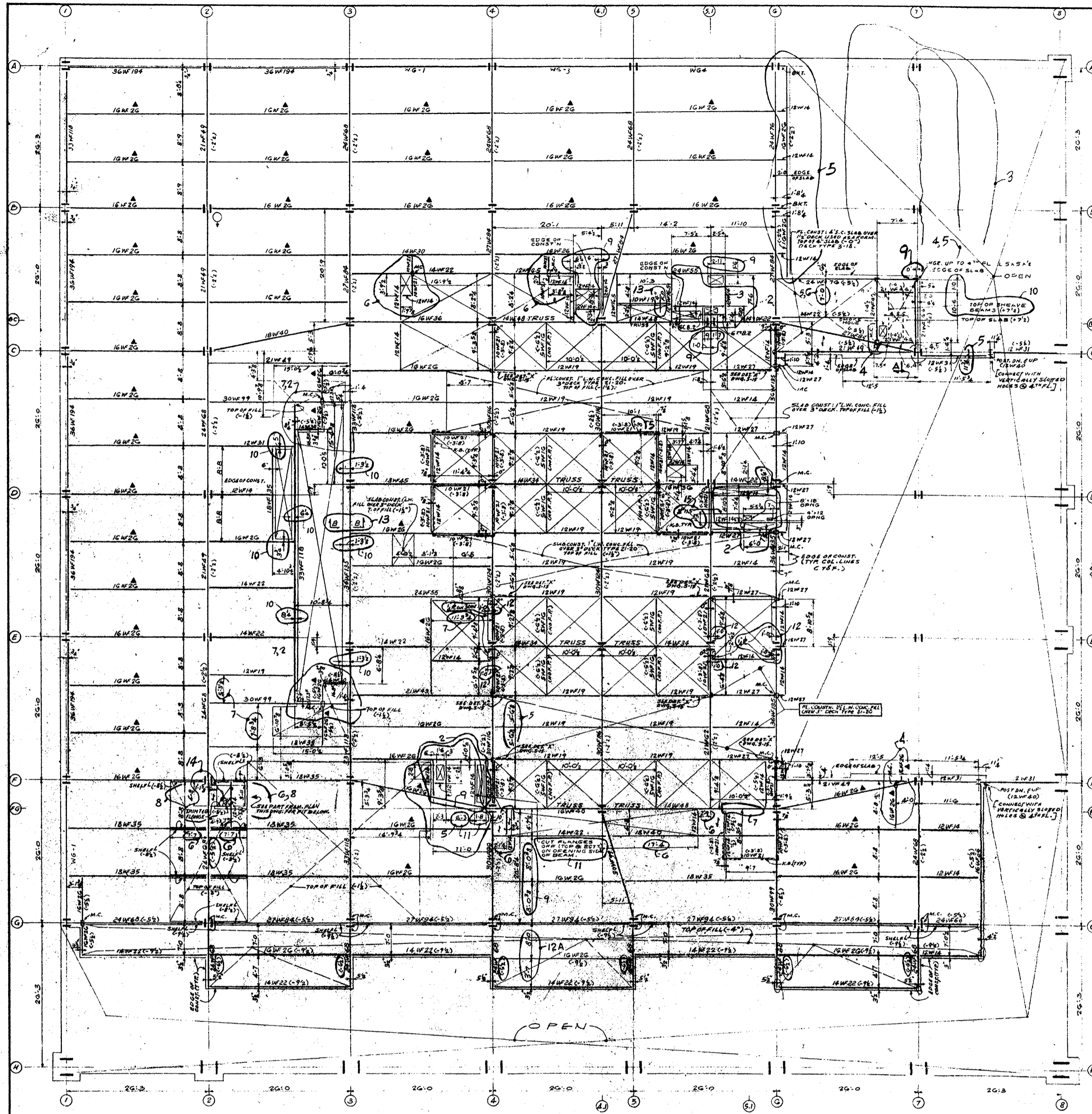
4TH FLOOR FRAMING PLAN

PROJECT NUMBER: 7101

DRAWING NUMBER: S-15

DATE: \_\_\_\_\_

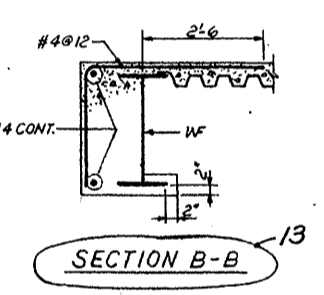
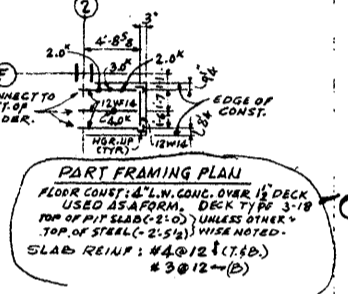
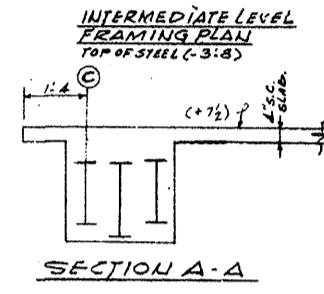
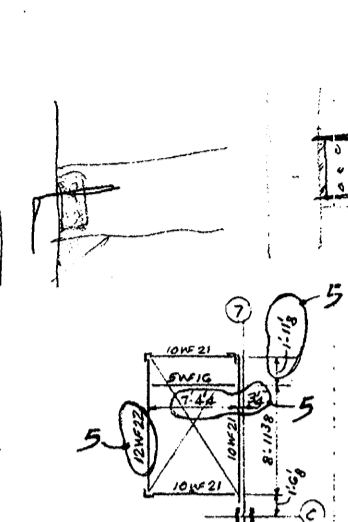
SCALE: \_\_\_\_\_



3RD FLOOR FRAMING PLAN

- NOTES:
- FLOOR CONCR. TO BE 2" L.W. CONC. FILL OVER 2" CONC. TYPE 3110
  - TOP OF CONC. FILL (1-5)
  - TOP OF STEEL (1-5)
  - FOR TYPICAL DETAILS SEE DWG. 1-55.
  - FOR TRUSSES SEE 1-31.
  - (A) INDICATES BEAMS ARE A572 GR. 50 STEEL.

ELEVATOR NOTES:



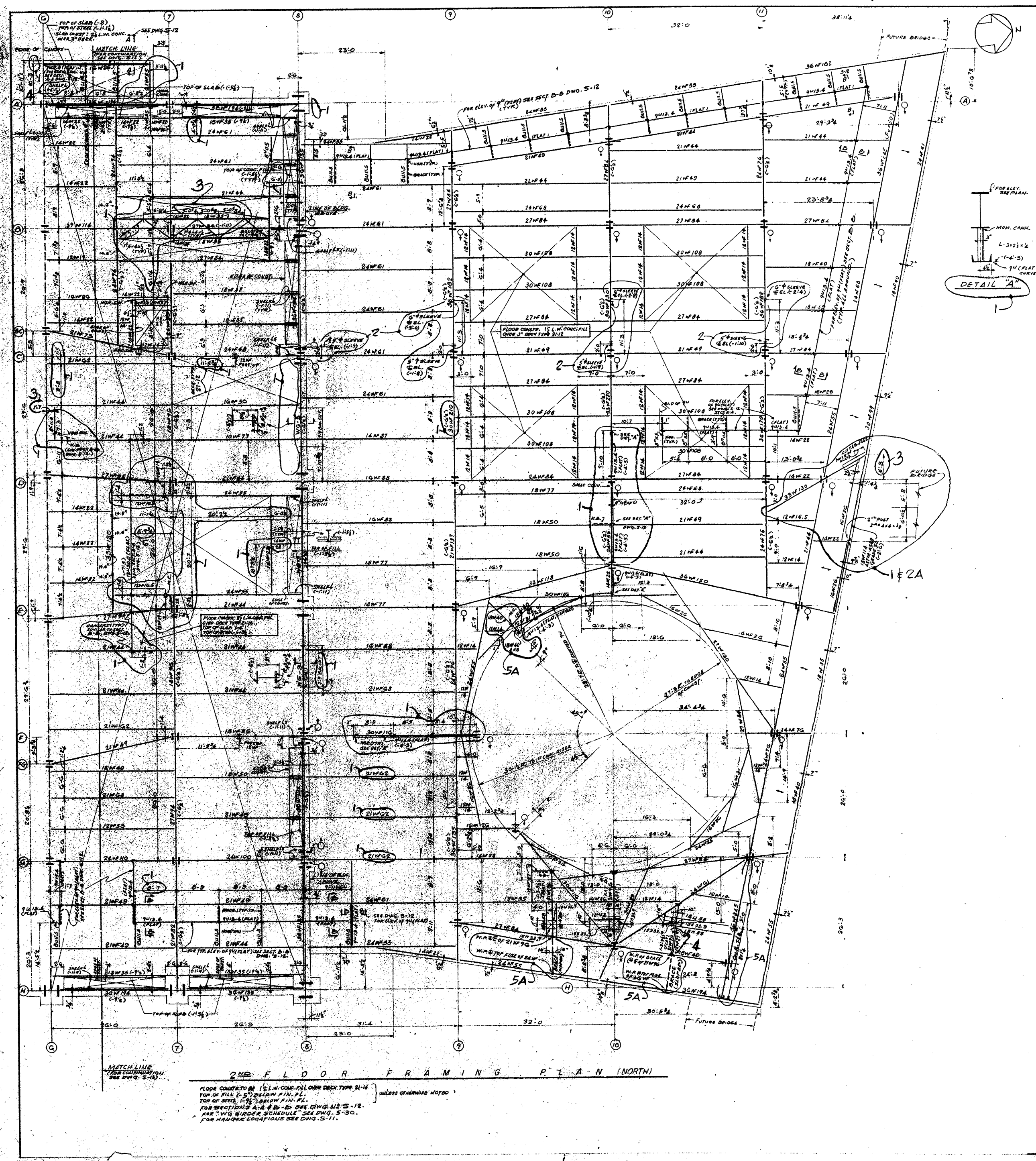
REVISIONS		
NO.	DATE	DESCRIPTION
1	10-6-71	REVISED AS CIRCLED 1
2	1-11-72	REVISED AS CIRCLED 2
3	1-24-72	REVISED AS CIRCLED 3
4	1-25-72	REVISED AS CIRCLED 4
5	2-3-72	REVISED AS CIRCLED 5
6	2-29-72	REVISED AS CIRCLED 6
7	3-20-72	REVISED AS CIRCLED 7
8	4-11-72	REVISED DIMS. NEAR COL. F-2 AND ADDED POINT FROM PLAN AS CIRCLED 8
9	6-12-72	REMOVED DIMS. NEAR COL. G-4 AND DIMS. COL. G-7 REVISED AS CIRCLED 9
10	7-10-72	REVISED DIMENSIONS NEAR COL. G-7 AS CIRCLED 10
11	8-4-72	REVISED FRAMING FOR OPENINGS NEAR COL. F-8 AS CIRCLED 11
12	8-29-72	ADDED #4 REINFORC. EACH SIDE OF COL. LINE E. OVER CORNER #1 & #2 AS CIRCLED 12 AND NOTED AS CIRCLED 12A
13	10-26-72	ADDED SEC. B-B CONC. FIREPROOFING IN DOWNSTAIR HATCHWAY FLOOR, REVISED AS CIRCLED 13
14	12-1-72	REVISED DIM. ADDED NOTE NEAR COL. F-2 AS CIRCLED 14
15	1-12-73	ADDED BEAM NEAR COL. D-C-5.1. DIMS. REVISOR'S DEC. CUTS. AS CIRCLED 15

12-6-71 REMOVED BY FLOOR RELEASED FOR REPAIRS & DETAILS  
 10-25-71 COLUMN TO COLUMN BEAMS RELEASED FOR ORDERING & DETAILING EXCEPT WHERE SHOWN HOLD

ISSUED TO	NO.	DATE	PKG. NO.
<b>BANKERS TRUST PLAZA</b>			
<b>A FISHER BROTHERS PROJECT</b>			
GREENWICH AND LIBERTY ST. N.Y. N.Y.			
<b>SHREVE, LAMBA HARMON ASSOCIATES P.C. ARCHITECTS</b>			
475 PARK AVENUE SOUTH N.Y. N.Y. 10016			
<b>PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS</b>			
919 THIRD AVENUE N.Y. N.Y. 10022			
<b>THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS</b>			
315 MADISON AVENUE N.Y. N.Y. 10022			
<b>J. A. ROS. BAUM &amp; BOLLES MECH. &amp; ELEC. ENGINEERS</b>			
345 PARK AVENUE N.Y. N.Y. 10022			

3RD FLOOR FRAMING PLAN

PROJECT NUMBER	7101
DRAWING NUMBER	S-14
DATE	
SCALE	



REVISIONS		
NO.	DATE	DESCRIPTION
1.	1-21-71	RELEASED DATA PREVIOUSLY MARKED "MOLDY" AND REVISED AS ORDERED
2.	1-11-72	ADDED BEAMS AS REVISED QUOTE 2. RELOCATED LIGHTS STAIRCASE AS CIRCLED "2A"
3.	2-18-72	REVISED AS ORDERED "3"
4.	4-11-72	ADDED BAY BEAR COL. M-10. ADDED SHEET ANGLE BEAM COLS. G & H ALL AS CIRCLED "4"
5.	7-10-72	REVISED AS ORDERED "5A" AS PER STRUCTURAL STEEL COMPANY'S REQUEST. BEAM COL. M-11 (E-9) ADDED. SHEET BEARERS AS PER STRUCT. STEEL COMPANY'S REQUEST. (IN BACK SIDE OF COL. M-10.)
6.	9-13-72	REVISED BEARING BEAM COL. D-7 AS CIRCLED "6"

11-5-71 RELEASED FOR ORDERING & DETAILING.

ISSUED TO NO. DATE PKG. NO.

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS  
475, PARK AVENUE SOUTH N.Y. N.Y. 10016

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919 THIRD AVENUE N.Y. N.Y. 10022

THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
515 MADISON AVENUE N.Y. N.Y. 10022

J. A. ROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS.  
345 PARK AVENUE N.Y. N.Y. 10022

**2<sup>ND</sup> FLOOR FRAMING PLAN (NORTH)**

**2<sup>ND</sup> FLOOR FRAMING PLAN (NORTH)**

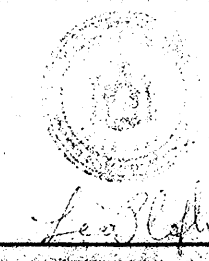
FLOOR CONGR. TO BE 15 L.W. CONC. FULL OVER DECK TYPE B-W TOP OF FIN. & 3" BELOW FIN. PL. TOP OF STEEL. (1") BELOW FIN. PL. FOR BEARINGS & A-B-D-D SEE DWG. M-10-S-12. FOR "W" BEAMER SCHEDULES SEE DWG. S-30. FOR HANGING LOCATIONS SEE DWG. S-11.

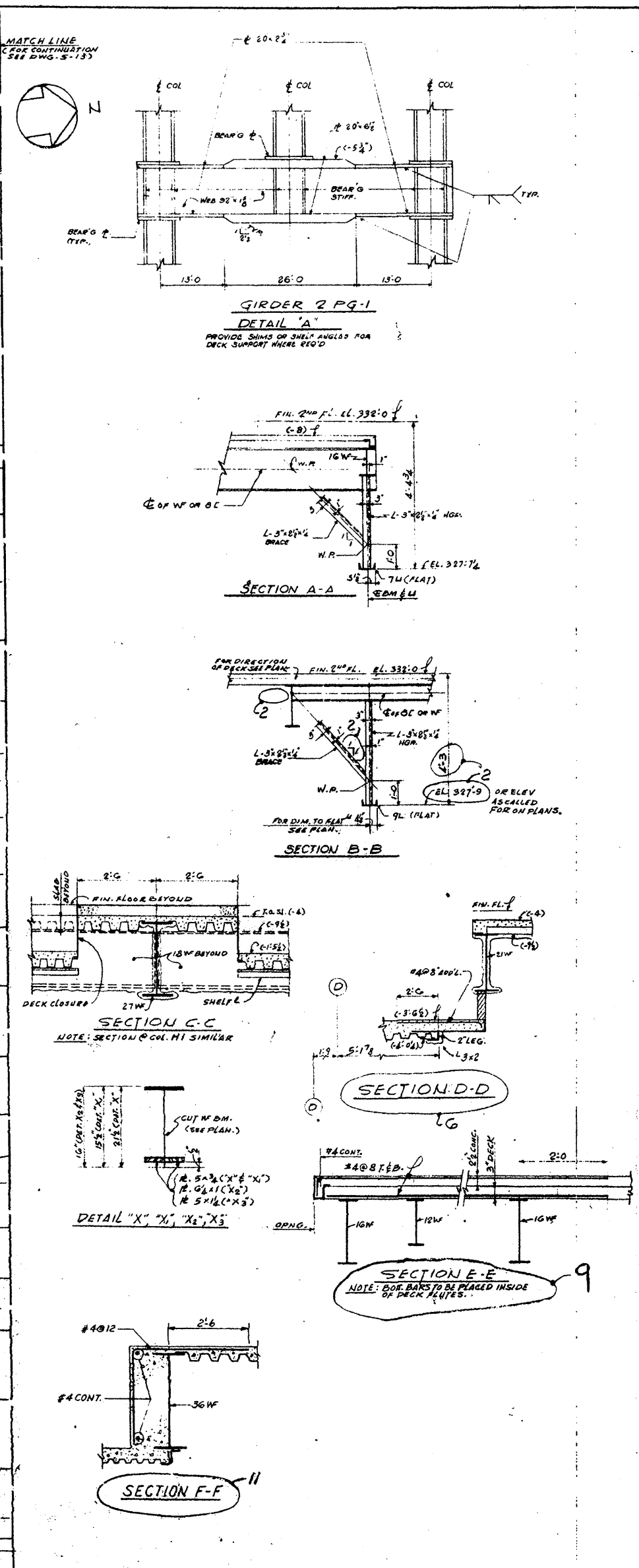
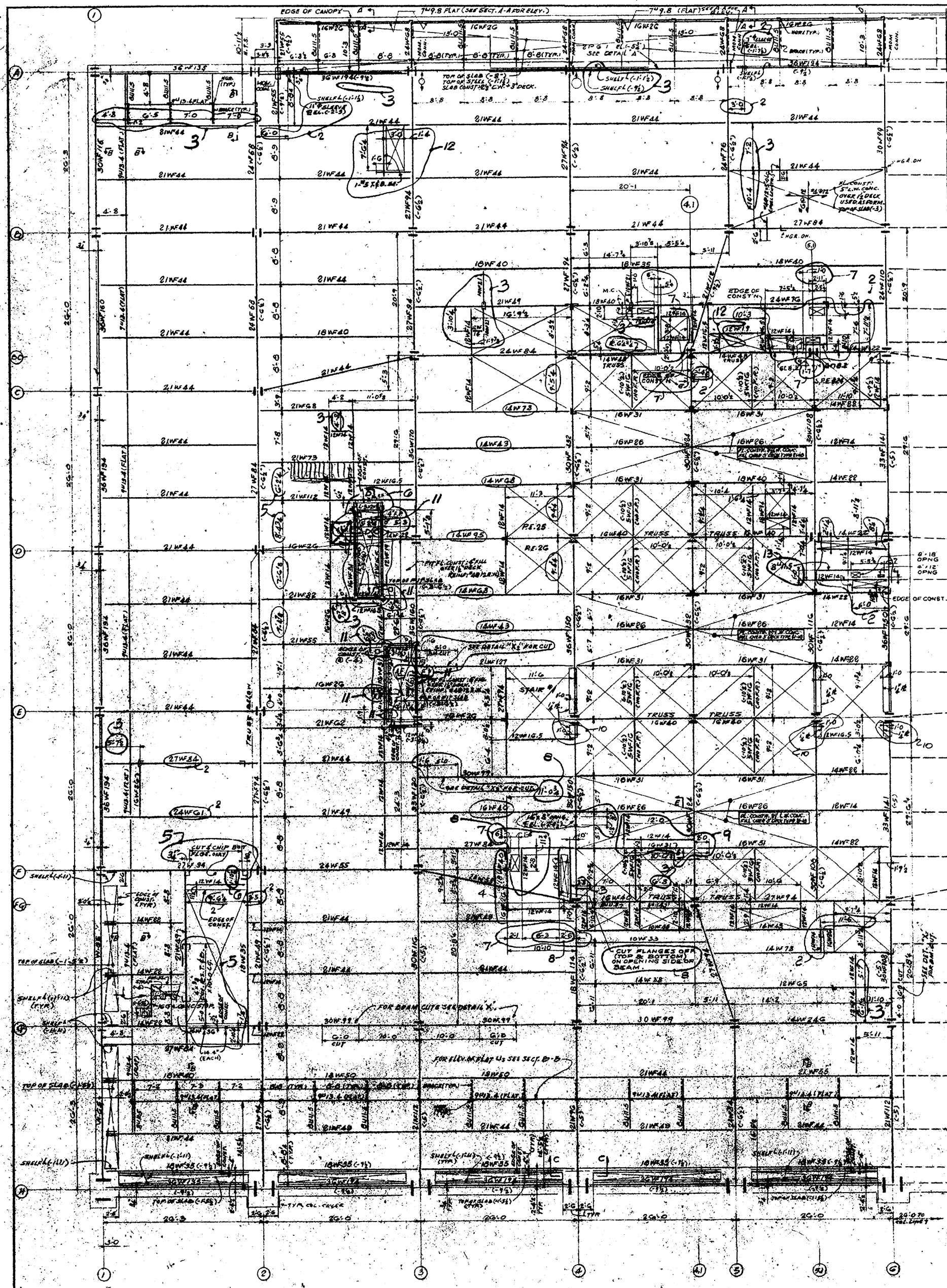
PROJECT NUMBER  
**7101**

DRAWING NUMBER  
**S-13**

DATE

SCALE





REVISIONS		
NO.	DATE	DESCRIPTION
1	11-5-71	REVISED AS CIRCLED - DIM TO BECH CHANG
2	1-11-72	REVISED AS CIRCLED - S
3	2-18-72	REVISED AS CIRCLED - S
4	3-7-72	REVISED BEAM SHEET WITH COLS. F-3 AND PG. 4. AS CIRCLED - S
5	3-20-72	BEAM CUTTING NEAR COL. F-2 BEAM & GIRDERS. ADDING BEAMS. G-1 BEAM MOVING NEAR COL. F-3 AND BEAM SUPPORTS NEAR COL. D-2 AS CIRCLED - S
6	MAY-1-72	ADDED DIM. NEAR COL. F-2. REVISED PIV. NEAR COL. D-3. ADDED DIM. D-1. ALL AS CIRCLED - S
7	6-22-72	REVISED OPENINGS NEAR COL'S BE-1, BE-2, BE-3, BE-4
8	7-4-72	REVISED BRANNING FOR OPENING NEAR COL. F-2. AS CIRCLED - S
9	9-15-72	ADDED BEAMS NEAR COL. L-1 & L-2. E-1. DIM TO CONDUIT. DIMENSIONS - AS CIRCLED - S
10	10-2-72	ADDED DIM. NEAR COL. D-3. AS CIRCLED - S
11	10-26-72	FIREPROOFING INFORMATION ADDED AT ESCALATORS. SEC. F-4. NOTE. REVISED AS CIRCLED - S
12	11-14-72	REVISED NEAR COL. D-3. DIM. TO BEAM. DIMENSIONS - AS CIRCLED - S
13	1-12-73	ADDED BEAM NEAR COL. D-3. E-1. BECAUSE OF EXCESSIVE DECK CUTS. AS CIRCLED - S

2ND FLOOR FRAMING PLAN (SOUTH)

FLOOR CONSTR. TO BE 8" L.W. CONC. FILL OVER 3" DECK TOP 8'-10" UNLESS OTHERWISE NOTED  
 TOP OF SLAB (S-1)  
 TOP OF STEEL (S-2)  
 (1" OR 2") SHOWN ON PLAN ARE HANGERS DOWN TO IMMEDIATE LEVEL ABOVE (S-1) & (S-2)  
 FOR TRUSSES SEE DWG. S-31  
 FOR BEAMS (TYPE "H") SEE SCHEDULE DWG. S-30  
 PROVIDE STANDARD MULTIPLE ANCHORS FOR GLASS WALL SEPARATING  
 SHAWT BEAM FROM SOUTHWALL ANCHORS.  
 □ DENOTES CONC. F.B. ONE SIDE ONLY - 11

RELEASED FOR DRAWING & DETAILING NOV. 2, 1971

ISSUED TO	NO.	DATE	PKG. NO.
<b>BANKERS TRUST PLAZA</b>			

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

**SHREVE, LAMB & HARMON ASSOCIATES PC ARCHITECTS**  
 475 PARK AVENUE SOUTH N.Y. N.Y. 10016

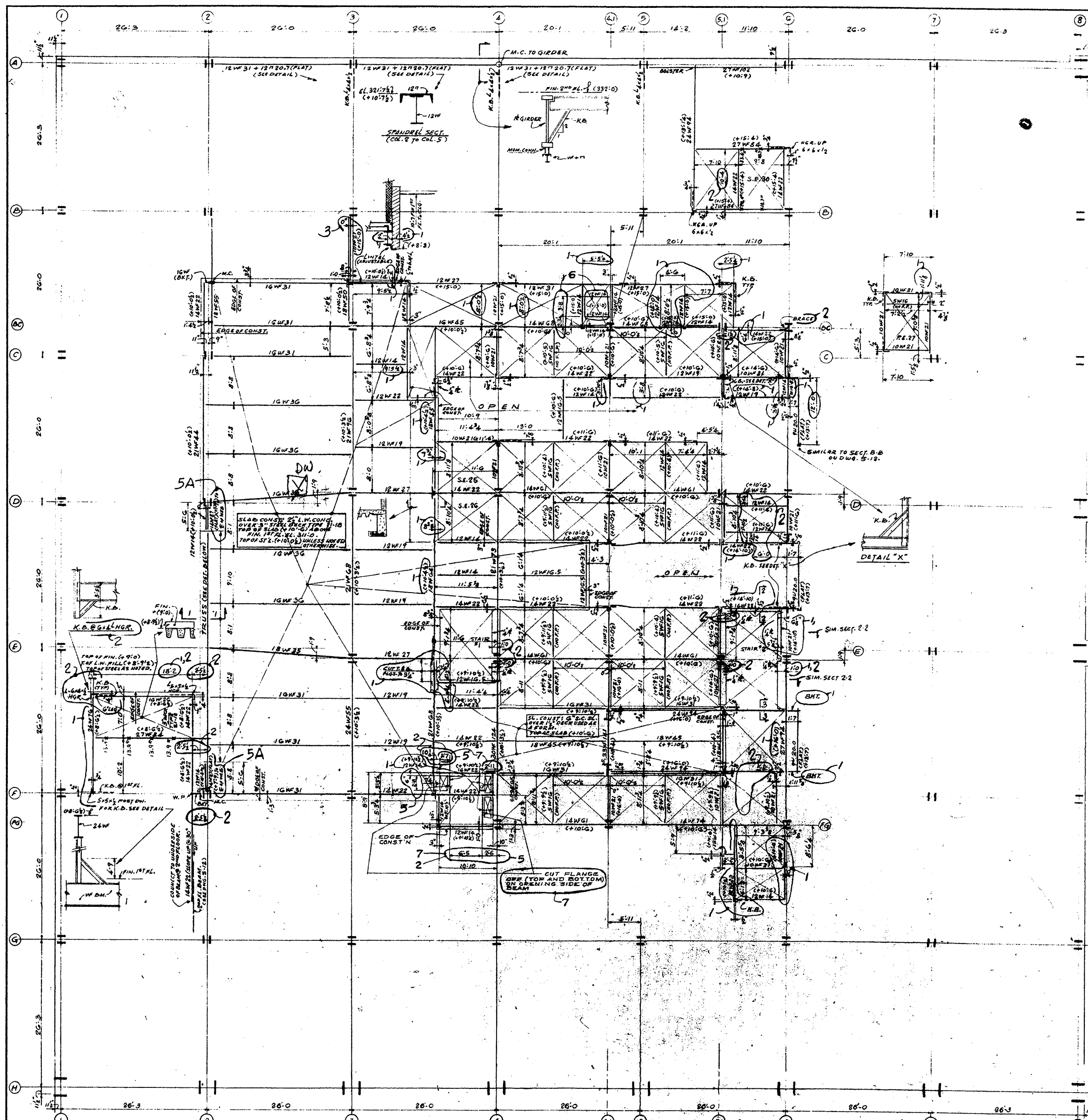
**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
 919 THIRD AVENUE N.Y. N.Y. 10022

**THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS**  
 315 MADISON AVENUE N.Y. N.Y. 10022

**J. A. ROSS, BAUM & BOLLES MECH. ELEC. ENGINEERS**  
 345 PARK AVENUE N.Y. N.Y. 10022

2ND FLOOR FRAMING PLAN (SOUTH)

PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-12</b>
DATE	
SCALE	



REVISIONS		
NO.	DATE	DESCRIPTION
1	1-12-72	REVISED AS CIRCLED 1
2	2-18-72	REVISED AS CIRCLED 2
3	3-7-72	HANGERS & STRUPE LOCATED & REVISED AS CIRCLED 3
4	5-1-72	CHANGES MADE IN MEMBER LOCATIONS TO ADHERE WITH STEEL Erection PLANS. DIM. ADDED CHANGE OF DIM. BEZEL ENDS OF TRUSS IN LINE 2 BETWEEN COLS. A & D AS PER STEEL CONTRACTOR REQUEST AS CIRCLED 4
5	6-22-72	RELOCATED BEAM NEAR COL. PG-8
6	7-10-72	ADDED BEAMS NEAR COL. DC-11 AS CIRCLED 5
7	8-4-72	REVISED DIMENSIONS & ADDED NOTE, NEAR COL. PG-8

11-20-71 RELEASED FOR ORDERING OF DETAILS.

ISSUED TO	NO.	DATE	PKG. NO.
<b>BANKERS TRUST PLAZA</b>			

**A FISHER BROTHERS PROJECT**

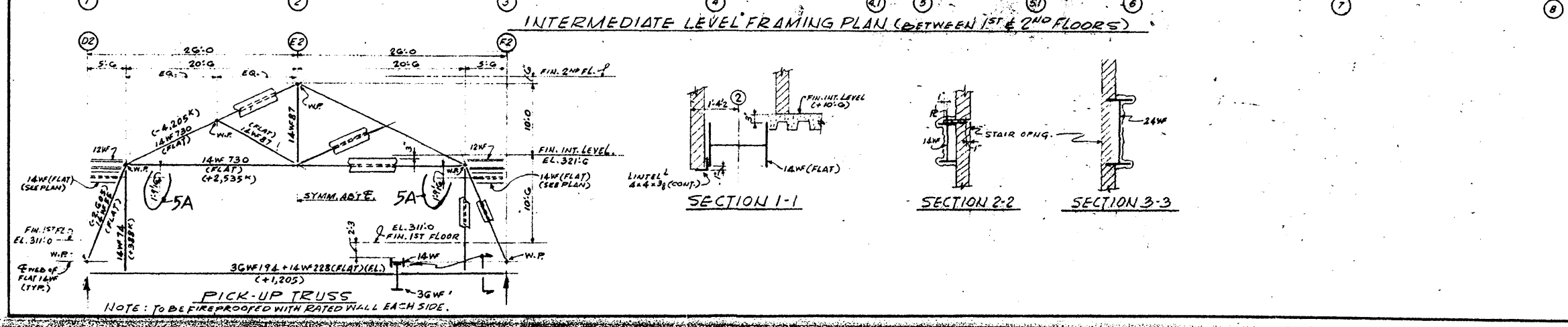
GREENWICH AND LIBERTY ST. N.Y. N.Y.

**SHREVE, LAMB & HARMON ASSOCIATES P.C.**  
ARCHITECTS  
475 PARK AVENUE SOUTH N.Y. N.Y. 10016

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
919 THIRD AVENUE N.Y. N.Y. 10022

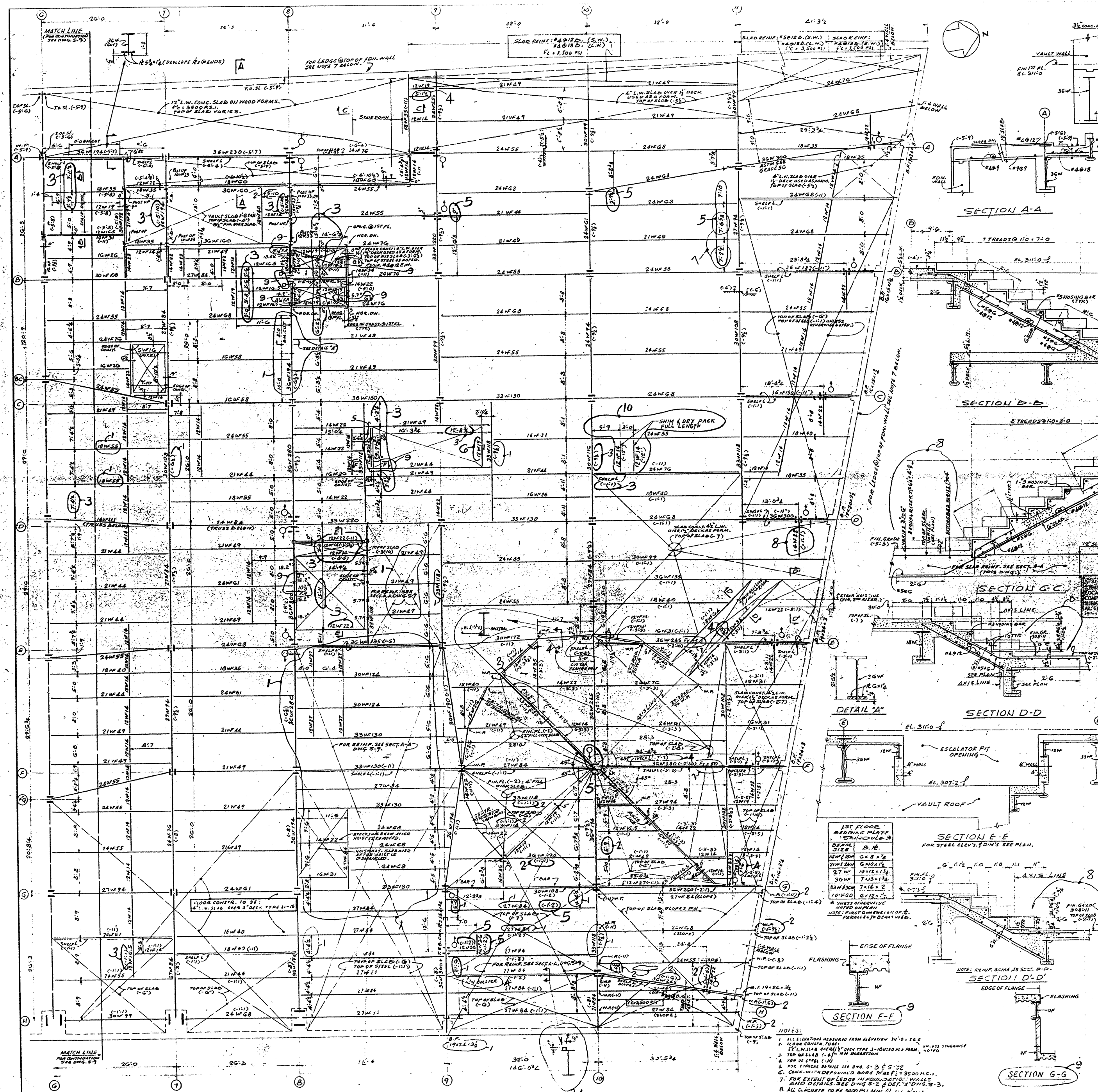
**THE OFFICE OF JAMES RUDERMAN**  
STRUCTURAL ENGINEERS  
515 MADISON AVENUE N.Y. N.Y. 10022

**JAROS, BAUM & BOLLES**  
MECH. & ELEC. ENGINEERS  
345 PARK AVENUE N.Y. N.Y. 10022

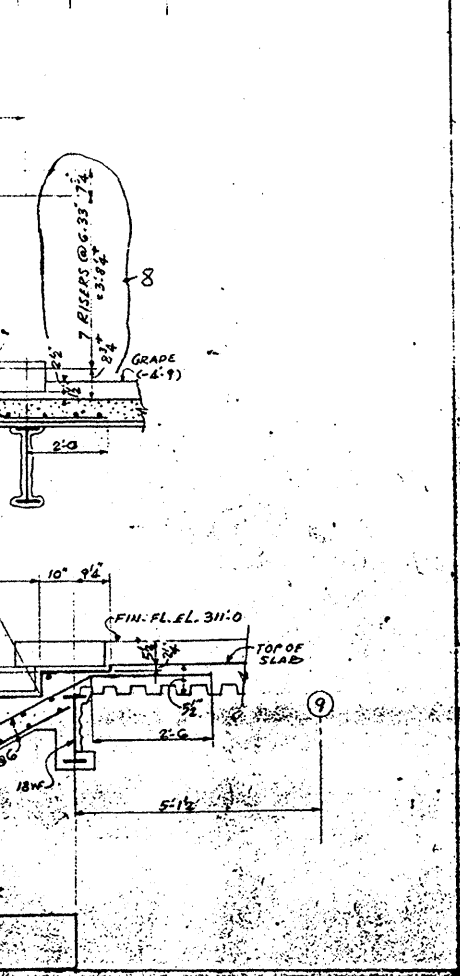


**INTERMEDIATE LEVEL FRAMING PLAN**  
BETWEEN 1ST & 2ND FLOORS

PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-11</b>
DATE	
SCALE	



NO.	DATE	DESCRIPTION
1	12-27-71	DESIGNED BY JAMES RUDERMAN
2	2-3-72	REVISIONS AS CIRCLED 1-2
3	2-18-72	REVISIONS AS CIRCLED 3-4 AND 5-6 FOR CHANGES IN WALLS NOT SHOWN
4	3-7-72	REVISIONS AS CIRCLED 7-8 AND 9-10 ADDED IN PLACE OF BEAMS
5	3-20-72	REVISIONS AS CIRCLED 11-12 ADDED BEAMS TO MATCH SECTION G-G
6	MAY-1-72	ADDED BEAM NEAR COL. 2-7 AND BRANCH BANK EQUIPMENT STORAGE
7	MAY-18-72	REVISIONS AS CIRCLED 13-14
8	7-10-72	ADDED BEAM NEAR COL. D-11 CONCRETE CHANGED AT STAIN SECTION AS CIRCLED 15-16
9	10-26-72	FIREPROOFING INFORMATION ADDED AT ESCALATORS, SEC. F-F, SEC. G-G, NOTE #3, REVISIONS AS CIRCLED 17-18
10	2-6-73	ADDED BEAMS TO SUPPORT HIGH DEPOSITORY FOR BRANCH BANK REVISIONS AS CIRCLED 19-20



THIS PLAN HAS BEEN DESIGNED TO BE CONSTRUCTION READY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, BEFORE ANY INSTALLATION, OF ALL STRUCTURAL ELEMENTS. COMPLETELY DETAILED PROPOSED INSTALLATIONS ARE CIRCLED ON THIS PLAN. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. ALL ENGINEERING APPROVALS ARE REQUIRED.

RELEASED FOR ORDERING & DETAILING OF STEEL  
CLIPART AREA MARKED AS SUCH  
ISSUED TO: \_\_\_\_\_ DATE: \_\_\_\_\_ PROJ. NO. \_\_\_\_\_

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

SHRIVE, LAMBA HARMON ASSOCIATES P.C.  
ARCHITECTS  
475 PARK AVENUE SOUTH N.Y. N.Y. 10016

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
919 THIRD AVENUE N.Y. N.Y. 10022

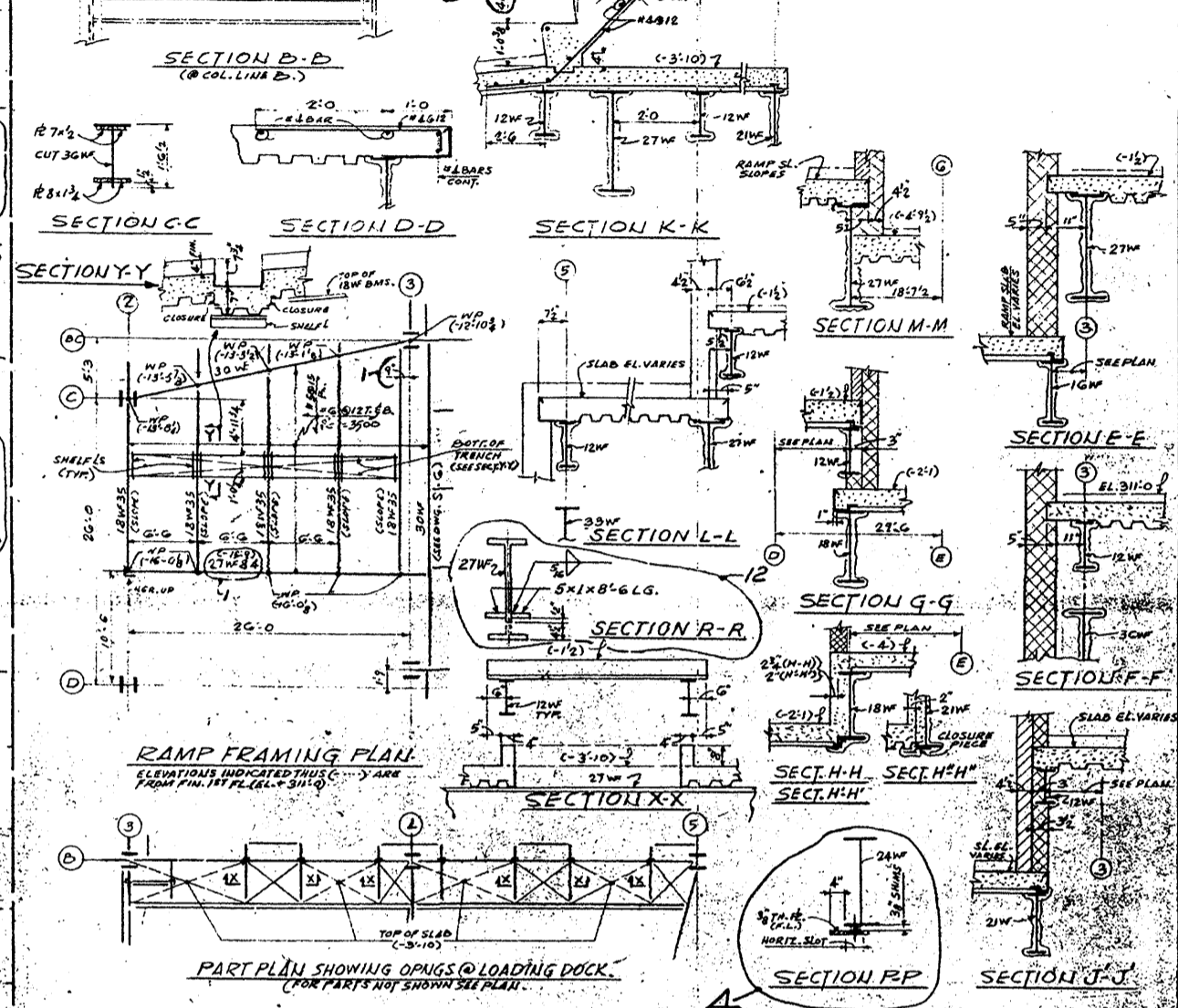
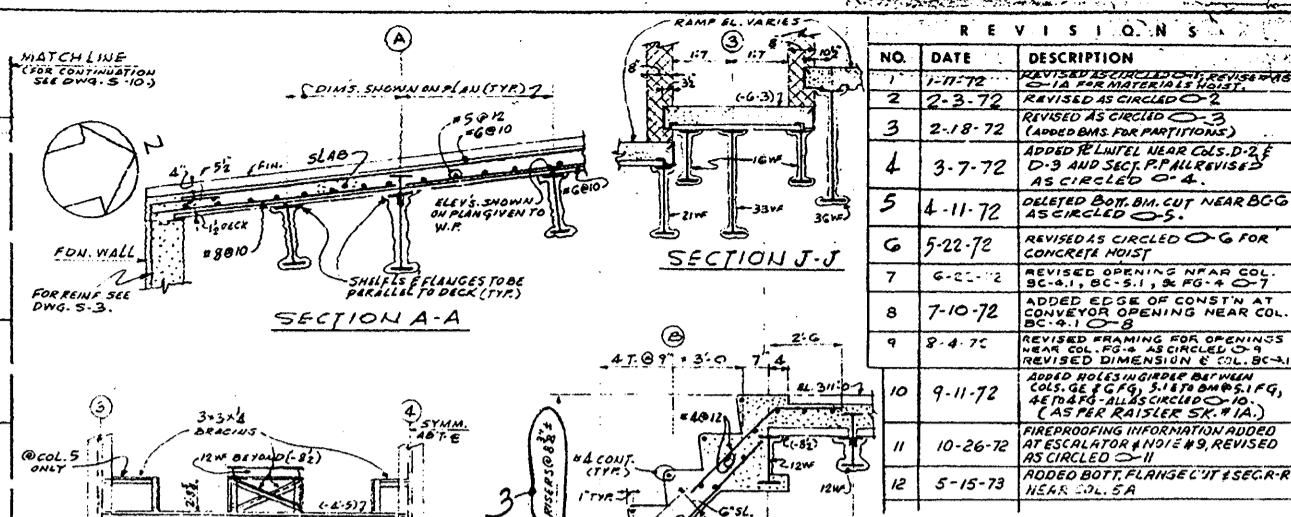
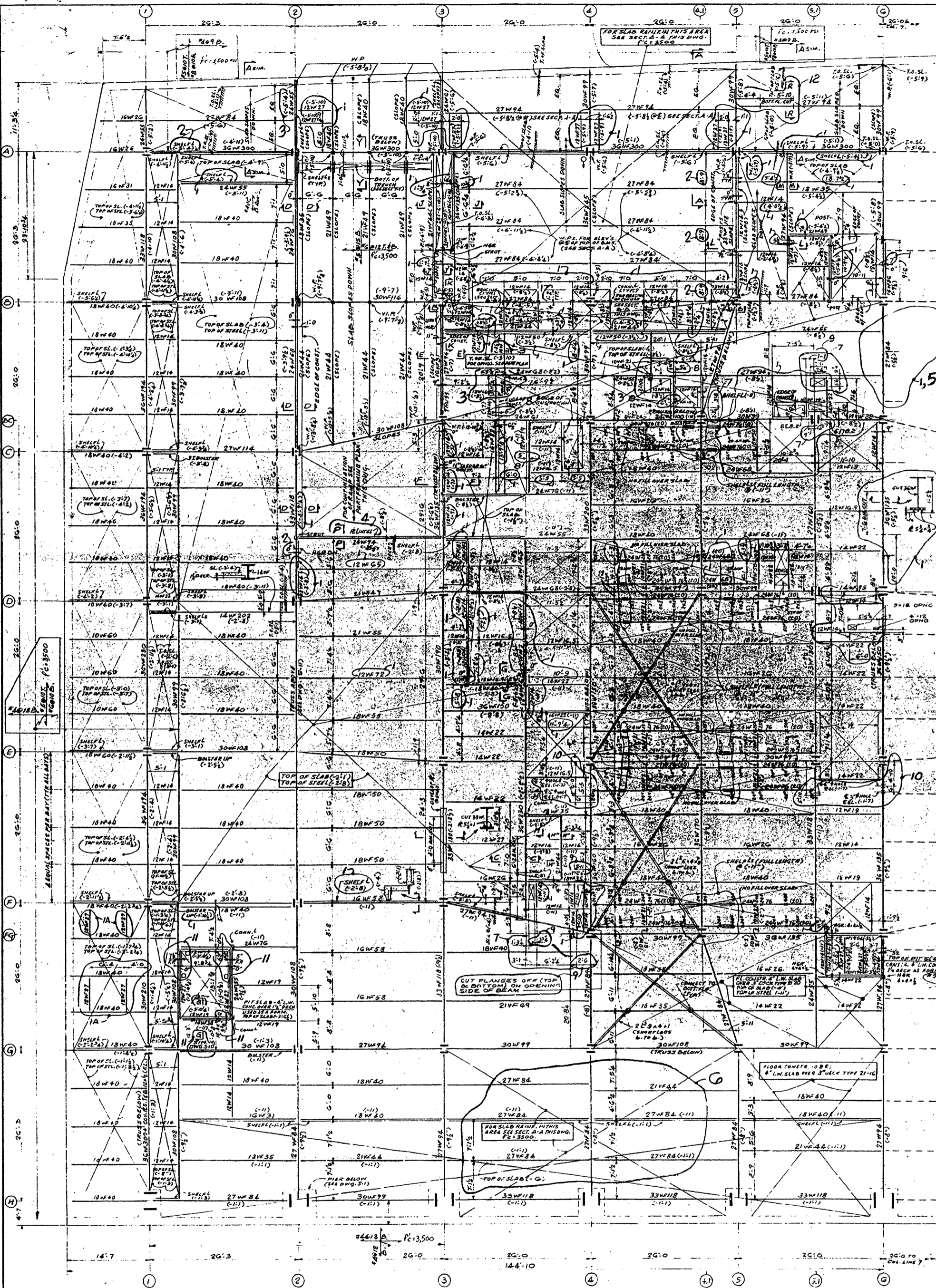
THE OFFICE OF JAMES RUDERMAN  
STRUCTURAL ENGINEERS  
315 MADISON AVENUE N.Y. N.Y. 10022

JAROS, BAUM & BOLLES  
MECH. ELEC. ENGINEERS  
345 PARK AVENUE N.Y. N.Y. 10022

1st FLOOR FRAMING PLAN (NORTH)

PROJECT NUMBER	7101
DRAWING NUMBER	S-10
DATE	
SCALE	

- NOTES:
- ALL ELEVATIONS MEASURED FROM ELEVATION 30'-0" TO 0
  - ALONG CONCRETE BEAMS
  - 35" WALLS ON ALL CORNERS TYPE 3-10000 AS PER 50100
  - TOP OF SLAB 1'-0" FROM FINISH FLOOR
  - TOP OF STEEL (C-1)
  - FOR FINISH WALL SEE DWG. S-2 & S-3
  - CONCRETE WITH REINFORCED CONCRETE ON ALL BEAMS
  - FOR EXTENT OF LEADS IN FOUNDATION, WALLS AND DETAILS SEE DWG. S-1 & S-2
  - ALL CONCRETE TO BE 3000 PSI MIN. ST. 4
  - Ø D DENOTES CONC. FOR ONE SIDE ONLY



**LOADING SCHEDULE (L.S.)**

LOADING SCHED. NO.	1st FLOOR						
	1	2	3	4	5	6	7
CIVE LOAD	100	100	100	100	100	100	100
FILL	100						
FINISH	50	50	50	50	50	50	50
PARTITIONS	12	12	12	12	12	12	12
CEILING & PIPING	4						
CONC. FILL	45						
DECK	10	10	10	10	10	10	10
SOLID CONC. SLAB	24	24	24	24	24	24	24
<b>TOTAL LOAD</b>	<b>220</b>	<b>220</b>	<b>215</b>	<b>174</b>	<b>153</b>	<b>153</b>	<b>153</b>
CLEAR SPAN	10	6	11	5	6	6	6
REIN. REQUIRED	140	142	140	106	100	100	100
MESH SIZE	SLABERS 21x11x	66.33	66.33	66.33	66.33	66.33	66.33
PROVIDE CONC. IN INTERIOR CLEAR SPAN OVER	6'-0"	7'-2"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
PROVIDE DIA. IN SHD. CLEAR SPAN OVER	7'-0"	7'-3"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"

**REVISIONS**

NO.	DATE	DESCRIPTION
1	1-17-72	ISSUED FOR PERMITS
2	2-3-72	REVISED AS CIRCLED 2
3	2-18-72	REVISED AS CIRCLED 3
4	3-7-72	REVISED AS CIRCLED 4
5	4-11-72	REVISED AS CIRCLED 5
6	5-22-72	REVISED AS CIRCLED 6
7	6-21-72	REVISED OPENING NEAR COL. BC-1
8	7-10-72	ADDED EDGE OF CONCRET. AT CONVEYOR OPENING NEAR COL. BC-1
9	8-4-72	REVISED FRAMING FOR OPENINGS NEAR COL. BC-1, BC-2, BC-3
10	9-11-72	ADDED EDGE OF CONCRET. AT CONVEYOR OPENING NEAR COL. BC-1
11	10-26-72	ADDED BOTTOM FLANGE TO BE REVISED AS CIRCLED 11
12	5-15-73	ADDED BOTTOM FLANGE TO BE REVISED AS CIRCLED 12

THIS PLAN HAS BEEN DESIGNED TO CARRY THE EQUIPMENT IN ITS FINAL LOCATION. BEFORE ANY INSTALLATION OF EQUIPMENT IS STARTED, COMPLETELY DETAILED PROPOSED METHODS OF INSTALLATION SHALL BE SUBMITTED BY THE SUBCONTRACTOR TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL.

**NOTES:**

1. ALL ELEVATIONS MEASURED FROM FIN. ELEVATION 111.10
2. REVISIONS FROM THIS PLAN
3. TOP OF SLAB OVER 1" DECK TOP 3" OVER ALL FROM FIN. ELEVATION 111.10
4. TOP OF STEEL 1" H
5. FOR TYPICAL DETAILS SEE DWG. S-3 & S-32
6. FOR BEARING PLATE SCHEDULES SEE DWG. S-10
7. FOR TRUSSES SEE DWG. S-31
8. ALL CONCRETE TO BE SPREAD MIN.

**BANKERS TRUST PLAZA**

**A. FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N. Y. N. Y.

**SHREVE, LAMB & HARMON ASSOCIATES P.C.**  
 ARCHITECTS  
 475 PARK AVENUE SOUTH N. Y. N. Y. 10016

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
 919 THIRD AVENUE N. Y. N. Y. 10022

**THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS**  
 515 MADISON AVENUE N. Y. N. Y. 10022

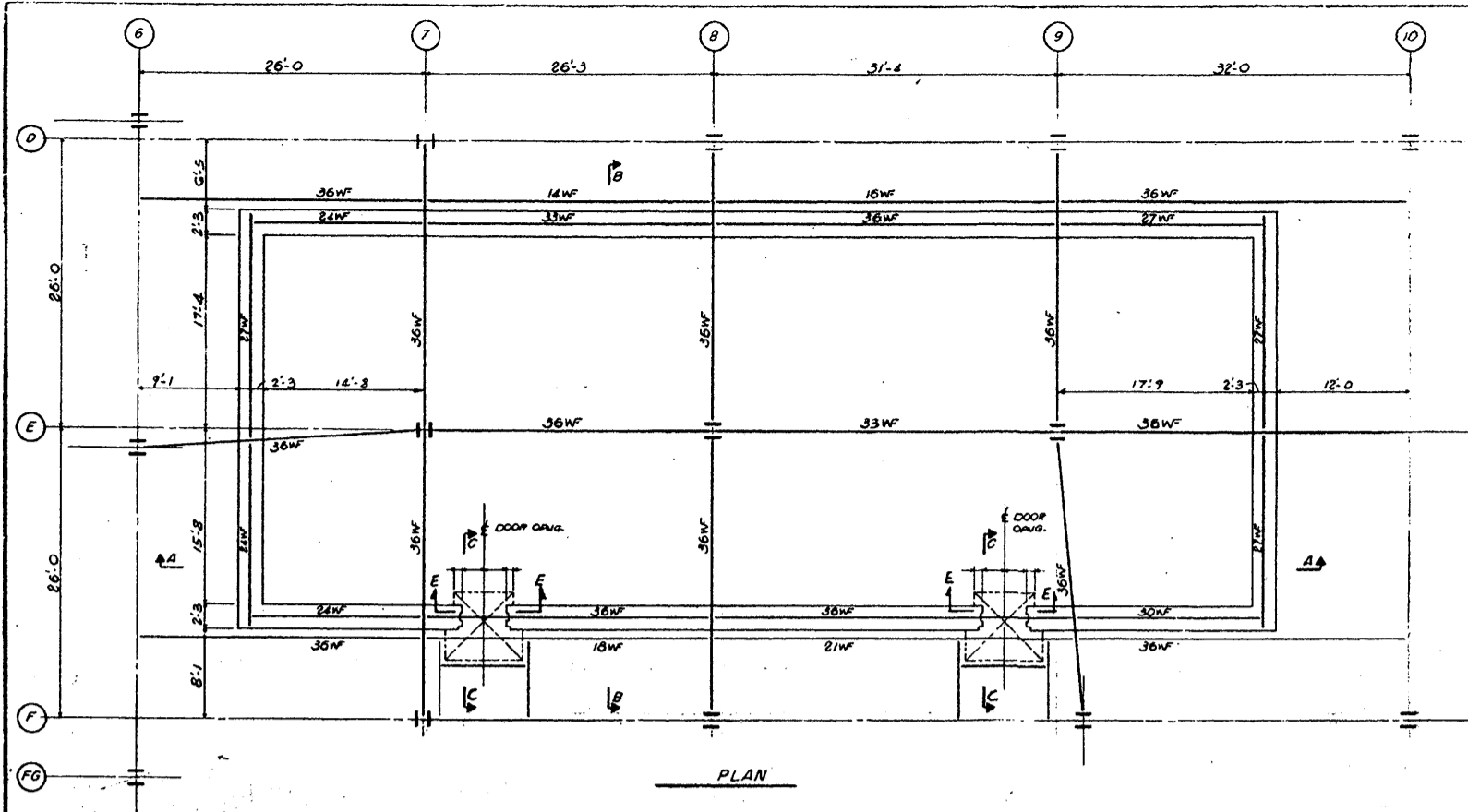
**JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS**  
 345 PARK AVENUE N. Y. N. Y. 10022

**1st FLOOR FRAMING PLAN (SOUTH)**

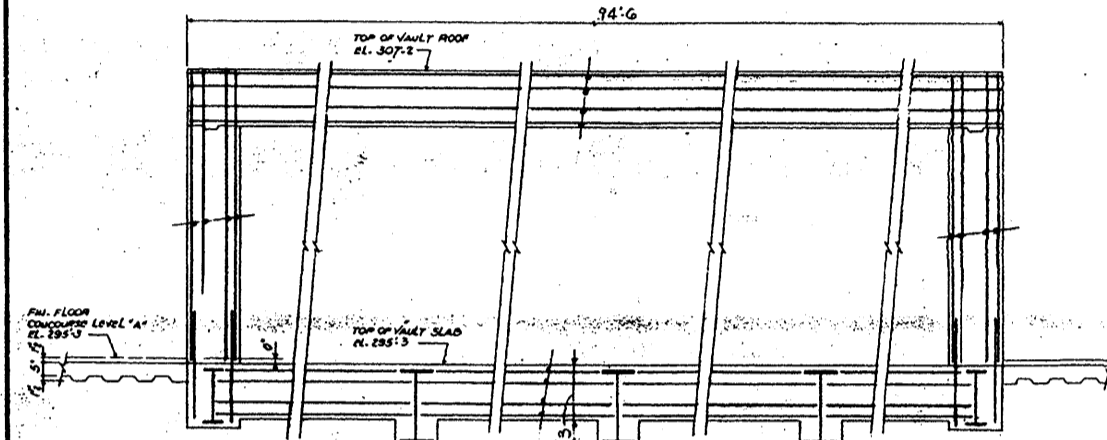
PROJECT NUMBER  
71-01

DRAWING NUMBER  
**S-9**

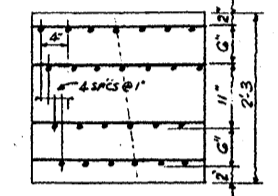
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SCALE



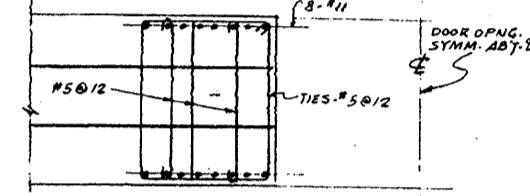
PLAN



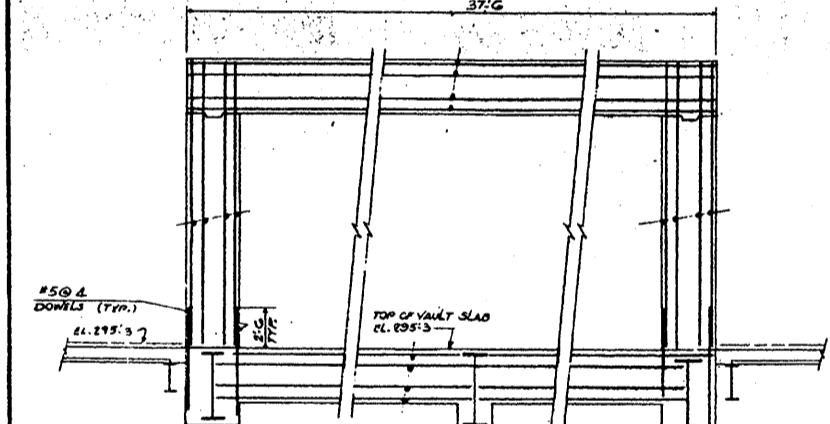
SECTION A-A



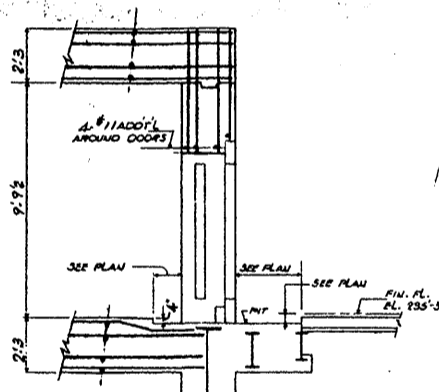
TYPICAL DETAIL OF REINFORCEMENT (FOR ALL WALLS, SLAB & ROOF) ALL REBAR #5 @ 12" (UNLESS OTHERWISE NOTED)



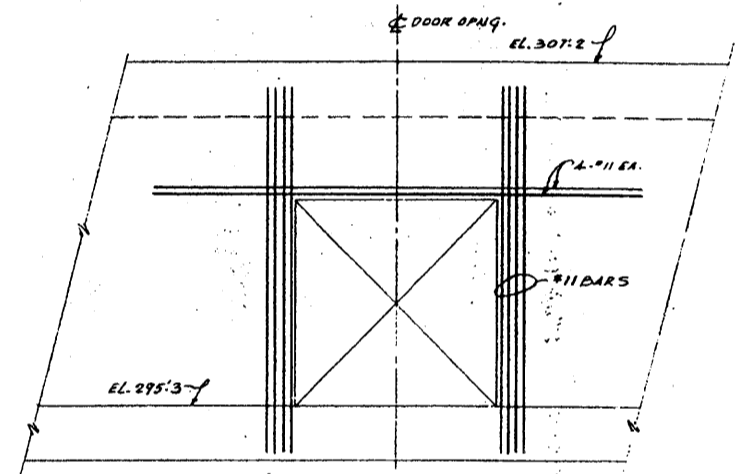
TYPICAL PLAN THRU DOOR OPENINGS



SECTION B-B



SECTION C-C



ELEVATION E-E

REVISIONS		
NO.	DATE	DESCRIPTION

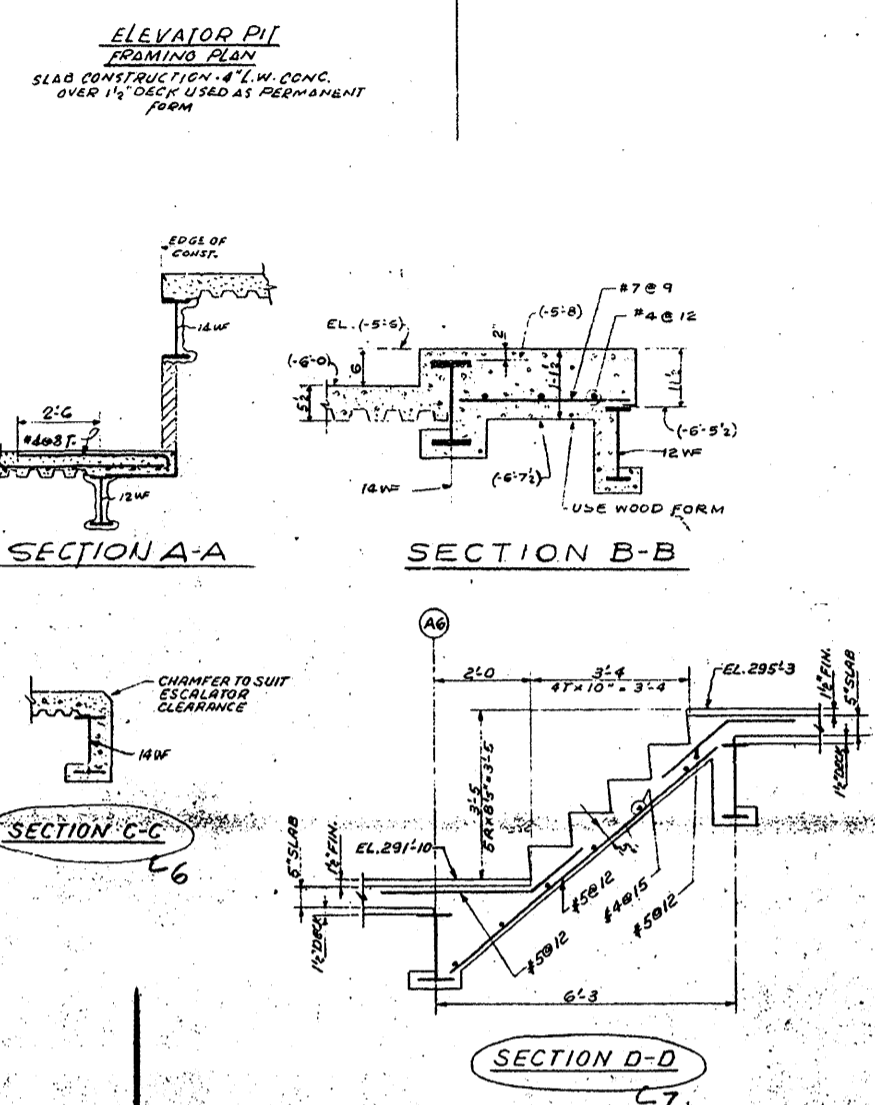
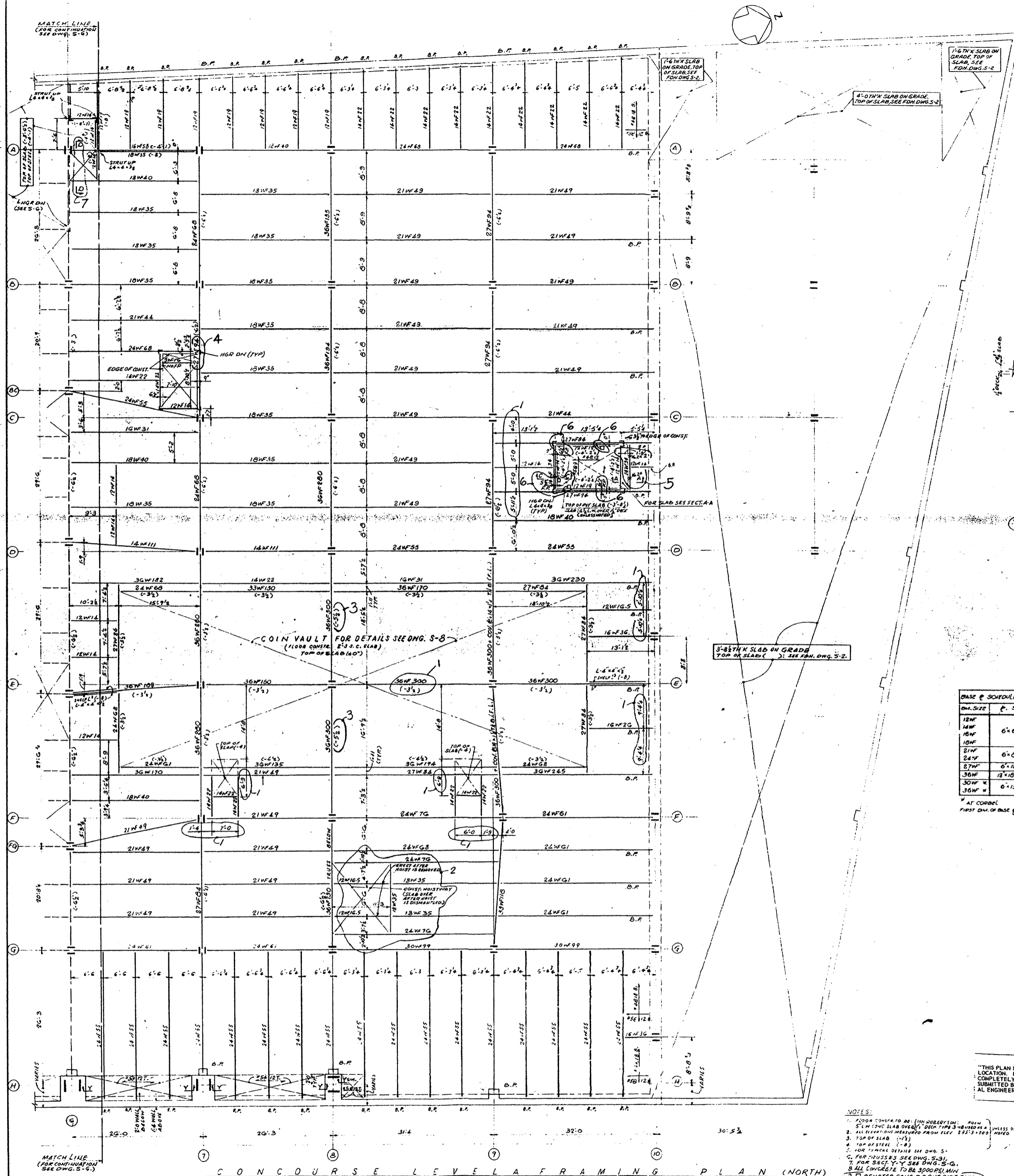
ISSUED TO	NO.	DATE	PKG. NO.
<b>BANKERS TRUST PLAZA</b>			
<b>A FISHER BROTHERS PROJECT</b>			
GREENWICH AND LIBERTY ST. N.Y. N.Y.			
SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS 475 PARK AVENUE SOUTH N.Y. N.Y. 10016			
PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS 919 THIRD AVENUE N.Y. N.Y. 10022			
THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS 515 MADISON AVENUE N.Y. N.Y. 10022			
JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS 345 PARK AVENUE N.Y. N.Y. 10022			

- CONCRETE NOTES:**
1. ALL CONCRETE USED IN BANK VAULT TO BE STONE CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 P.S.I.
  2. ALL REINFORCEMENT SHALL BE DEFORMED BARS OF A.S.T.M. A-615, 60 LATEST EDITION.
  3. LAP ALL BARS 40 DIAM. AT SPLICES. ALL BARS SHALL BE WIRED TOGETHER AT INTERSECTIONS AND SPLICES.
  4. THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".
  5. FOR EXACT CONFIGURATION OF DOOR OPENINGS, VENTILATION, ETC., SEE MANUFACTURER'S DIMS.
  6. PROVIDE CORNER BARS AT ALL INTERSECTIONS.

\*THIS PLAN HAS BEEN DESIGNED TO CARRY THE EQUIPMENT IN ITS FINAL LOCATION. BEFORE ANY INSTALLATION OF EQUIPMENT IS STARTED, COMPLETELY DETAILED PROPOSED METHODS OF INSTALLATION SHALL BE SUBMITTED BY THE SUBCONTRACTOR TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL.

COIN VAULT	
PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-8</b>
DATE	
SCALE	





BASE & SCHEDULE

NO.	DESCRIPTION	QTY.
1	18W35	1
2	18W40	1
3	18W45	1
4	21W49	1
5	21W54	1
6	24W61	1
7	24W62	1
8	24W63	1
9	24W64	1
10	24W65	1
11	24W66	1
12	24W67	1
13	24W68	1
14	24W69	1
15	24W70	1
16	24W71	1
17	24W72	1
18	24W73	1
19	24W74	1
20	24W75	1
21	24W76	1
22	24W77	1
23	24W78	1
24	24W79	1
25	24W80	1
26	24W81	1
27	24W82	1
28	24W83	1
29	24W84	1
30	24W85	1
31	24W86	1
32	24W87	1
33	24W88	1
34	24W89	1
35	24W90	1
36	24W91	1
37	24W92	1
38	24W93	1
39	24W94	1
40	24W95	1
41	24W96	1
42	24W97	1
43	24W98	1
44	24W99	1
45	24W100	1

AT CORNER FIRST DIM. OF BASE & PARALLEL TO DIM. W.B.

NO.	DATE	DESCRIPTION
1	12-13-71	REVISED AS CIRCLED S-7
2	12-17-71	REVISED AREA NEAR COL. G-B FOR CONSTRUCTION ASSIST. CIRCLED S-2
3	2-3-72	REVISIONS CHANGED DIMENSIONS D-B & B AS CIRCLED S-3
4	2-18-72	REVISED ESCALATOR SUPPORT DIM. NEAR COL. C-13 & D-10, C-2 AS CIRCLED S-4
5	3-20-72	REVISED ESCALATOR SUPPORT DIM. NEAR COL. C-13 & D-10, C-2 AS CIRCLED S-5
6	7-10-72	ADDED SECTION B-B
7	10-26-72	FIREPROOFING INFORMATION ADDED AT ESCALATOR. SEE C-C NOTE #7 REVISED AS CIRCLED S-6
8	5-31-73	ADDED SECTION D-D, REVISED AS CIRCLED S-7

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

**SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS**  
475 PARK AVENUE SOUTH N.Y. N.Y. 10016

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
919 THIRD AVENUE N.Y. N.Y. 10022

**THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS**  
515 MADISON AVENUE N.Y. N.Y. 10022

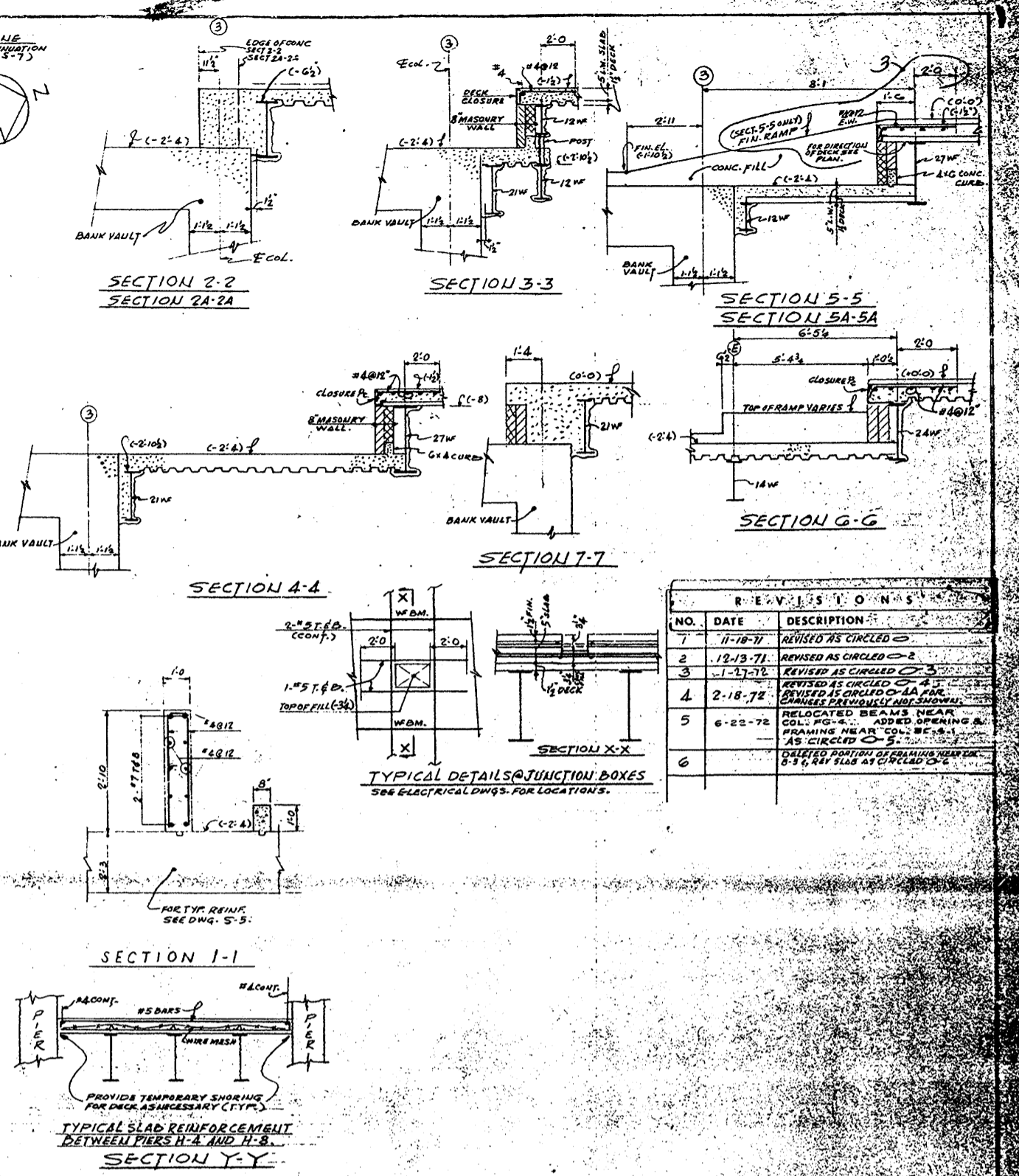
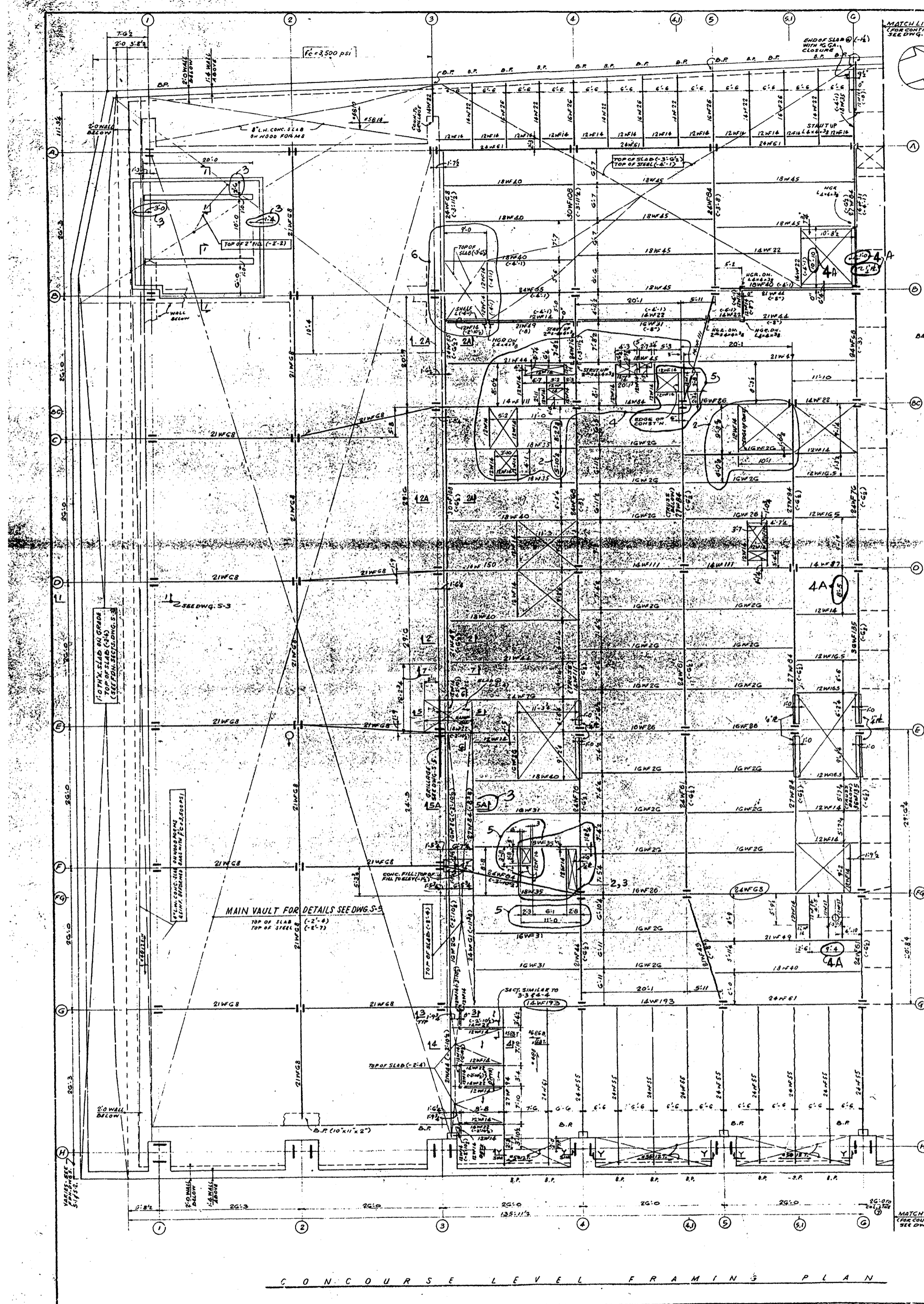
**J. A. ROSS, BAUM & BOLLES MECH. & ELEC. ENGINEERS**  
345 PARK AVENUE N.Y. N.Y. 10022

CELLAR LEVEL "A" NORTH FRAMING PLAN

PROJECT NUMBER	7101
DRAWING NUMBER	<b>S-7</b>
DATE	
SCALE	

- NOTES:
1. FOR CONCRETE TO BE (IN JOB ORDER) FOR 5% W/SLAB OVERLAY, DIM. TYP. 3" MINIMUM UNLESS OTHERWISE NOTED.
  2. ALL REINFORCING MATERIALS FROM DEC. 1, 1971 TO 1973.
  3. TOP OF SLAB (-1.5)
  4. TOP OF STEEL (-1.8)
  5. FOR FINISH DETAILS SEE DWS. S-1
  6. FOR FINISHES SEE DWS. S-2
  7. FOR SECT. T-Y SEE PWD. S-G.
  8. ALL CONCRETE TO BE 3000 PSI MIN.
  9. D DENOTES CONC. ON ONE SIDE ONLY.

10-25-71 RELEASED FOR ORDERING & DETAILING



**LOADING SCHEDULE**

**CONCOURSE LEVEL**

LOADING SCHEDULE	100	200	300	400	500	600	700	800	900	1000
FILL	18	18	18	18	18	18	18	18	18	18
FINISH	18	18	18	18	18	18	18	18	18	18
PARTITIONS	12	12	12	12	12	12	12	12	12	12
CEILING & PIPING	6	6	6	6	6	6	6	6	6	6
CONC. FILL	6	6	6	6	6	6	6	6	6	6
DECK	6	6	6	6	6	6	6	6	6	6
SPREAD CONC. SLAB	50	50	50	50	50	50	50	50	50	50
<b>TOTAL LOAD</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>
CLEAR SPAN	8'-2"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
REIN. REQUIRED	147	125	125	125	125	125	125	125	125	125
MESH 5/8"	316	288	288	288	288	288	288	288	288	288
PROVIDE DM. H. W. 1/2"	8'-7"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"
PROVIDE DM. H. W. 3/4"	8'-11"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"
PROVIDE DM. H. W. 1"	9'-5"	9'-1"	9'-1"	9'-1"	9'-1"	9'-1"	9'-1"	9'-1"	9'-1"	9'-1"

**REVISIONS**

NO.	DATE	DESCRIPTION
1	11-18-71	REVISED AS CIRCLED
2	12-13-71	REVISED AS CIRCLED
3	1-17-72	REVISED AS CIRCLED
4	2-18-72	REVISED AS CIRCLED
5	6-22-72	RELOCATED BEAMS NEAR COL. PG. 4. AS NOTED ON DRAWING AS CIRCLED
6		DELETED PORTION OF DRAWING NEAR PG. 3. SEE SLAB AT COL. PG. 4.

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

**SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS**

475 PARK AVENUE SOUTH N.Y. N.Y. 10016

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**

919 THIRD AVENUE N.Y. N.Y. 10022

**THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS**

515 MADISON AVENUE N.Y. N.Y. 10022

**JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS**

345 PARK AVENUE N.Y. N.Y. 10022

**CELLAR LEVEL "A" SOUTH FRAMING PLAN**

PROJECT NUMBER  
**7101**

DRAWING NUMBER  
**S-6**

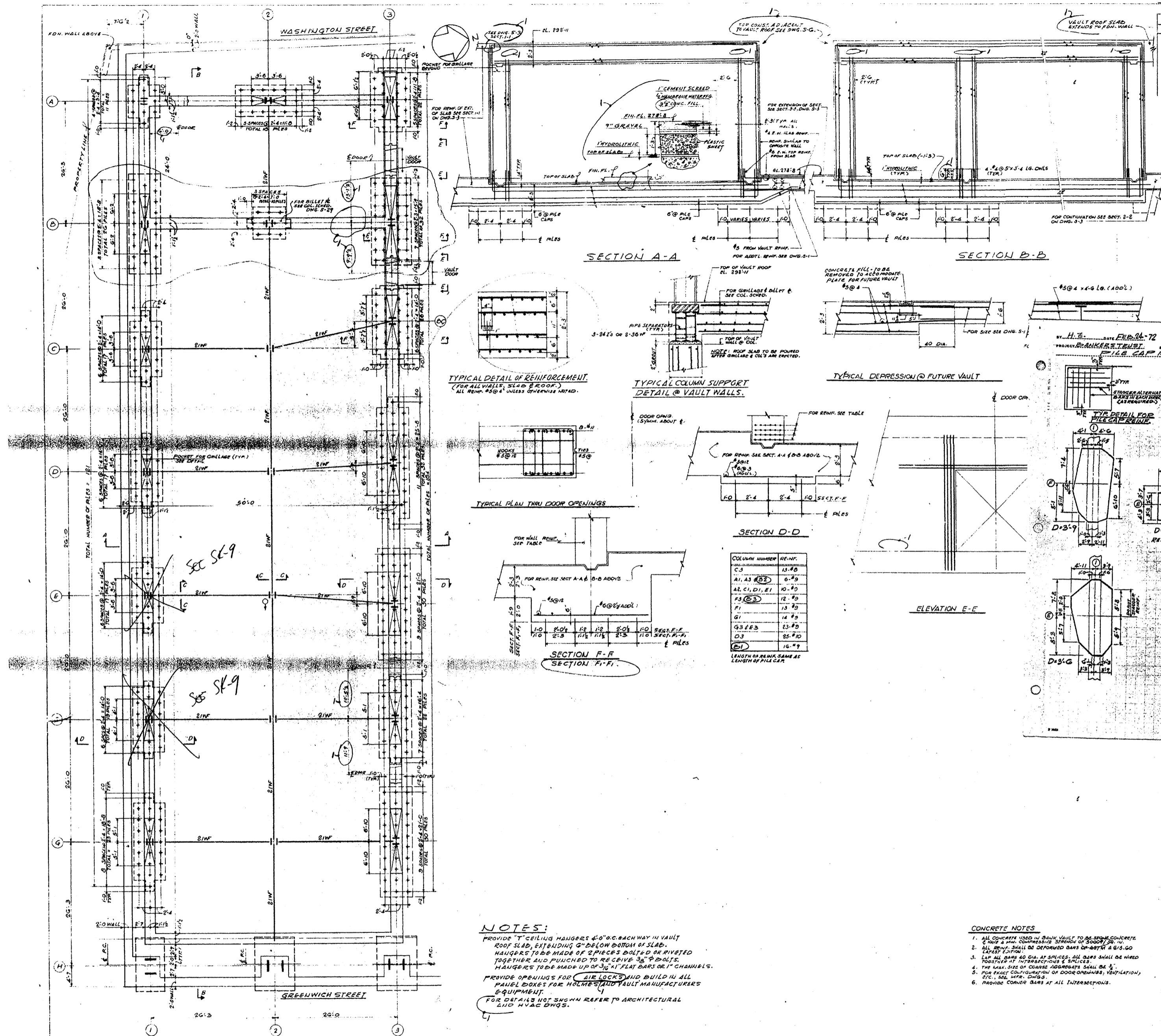
DATE  
SCALE

NOTES:

1. REFER TO DRAWING S-5 FOR CONCRETE SLAB DETAILS.
2. ALL REINFORCEMENT SHALL BE 60,000 PSI YIELD STRENGTH UNLESS OTHERWISE NOTED.
3. TOP OF SLAB (T.O.S.)
4. TOP OF DECK (T.O.D.)
5. FOR TYPICAL DETAILS SEE DWG. S-3.
6. FOR BEAM & COLUMN SEE DWG. S-7.
7. FOR TRUSSES SEE DWG. S-3.

THIS PLAN HAS BEEN DESIGNED TO CARRY THE EQUIPMENT IN ITS FINAL LOCATION. BEFORE ANY INSTALLATION OF EQUIPMENT IS STARTED, COMPLETELY DETAILED PROPOSED METHODS OF INSTALLATION SHALL BE SUBMITTED BY THE SUBCONTRACTOR TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL.

REVISIONS		
NO.	DATE	DESCRIPTION
1	1-27-72	REVISED AS SHOWN



BY: H.E. DATE: FEB. 24-72  
 PROJECT: BANK VULT. REDESIGN AS DRIVEN  
 THE OFFICE OF JAMES RUDERMAN CONSULTING ENGINEERS  
 315 MADISON AVE. N.Y. N.Y. 10022

SK-9

**LEGEND**

**NOTES:**

1. THIS SECTION TO BE USED IN CONNECTION WITH DWG. S-5.
2. REFER TO DWG. S-1 THROUGH S-4 FOR ORIGINAL PILE CAPS (AS REQUIRED).
3. MINIMUM DISTANCE FROM PILE TO FACE OF PILE CAP SHALL BE 12" (MINIMUM AS SHOWN).
4. MINIMUM DISTANCE FROM PILE TO FACE OF PILE CAP SHALL BE 12" (MINIMUM AS SHOWN).

**TYPICAL DETAIL FOR PILE CAP REIN.**

**TYPICAL DEPRESSION @ FUTURE VAULT**

**ELEVATION E-E**

**SECTION D-D**

**SECTION F-F**  
SECTION F1-F1

**NOTES:**

PROVIDE "C" CEILING HANGERS @ 6" O.C. EACH WAY IN VAULT ROOF SLAB, EXTENDING 6" BELOW BOTTOM OF SLAB. HANGERS TO BE MADE OF 2 PIECES DOLPH D OR RIVETED TOGETHER AND PUNCHED TO RECEIVE 3/8" Ø BOLTS. HANGERS TO BE MADE UP OF 3/4" FLAT BARS OR 1" CHANNELS.

PROVIDE OPENINGS FOR AIR LOCK AND BUILD IN ALL PANEL DOORS FOR HOLMES AND VAULT MANUFACTURERS EQUIPMENT.

FOR DET. NOT SHOWN REFER TO ARCHITECTURAL AND HVAC DWGS.

**CONCRETE NOTES**

1. ALL CONCRETE USED IN BANK VAULT TO BE SP-8 CONCRETE.
2. USE A MIN. COMPRESSIVE STRENGTH OF 5000 PSI.
3. ALL REIN. SHALL BE DEFORMED BARS OR WELDED WIRE FABRIC.
4. ALL MAX. DIA. AT SPICES. ALL BARS SHALL BE WELD TOGETHER AT INTERSECTIONS & SPICES.
5. THE MAX. SIZE OF COARSE AGGREGATE SHALL BE 3/4".
6. PROVIDE CORNER BARS AT ALL INTERSECTIONS.

GREENWICH AND LIBERTY ST. N.Y. N.Y.

**SHREVE, LAMB & HARMON ASSOCIATES P.C. ARCHITECTS**  
 475 PARK AVENUE SOUTH N.Y. N.Y. 10016

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
 919 THIRD AVENUE N.Y. N.Y. 10022

**THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS**  
 315 MADISON AVENUE N.Y. N.Y. 10022

**JAROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS**  
 345 PARK AVENUE N.Y. N.Y. 10022

**BANK VAULT PLAN & DETAILS**

PROJECT NUMBER  
**7101**

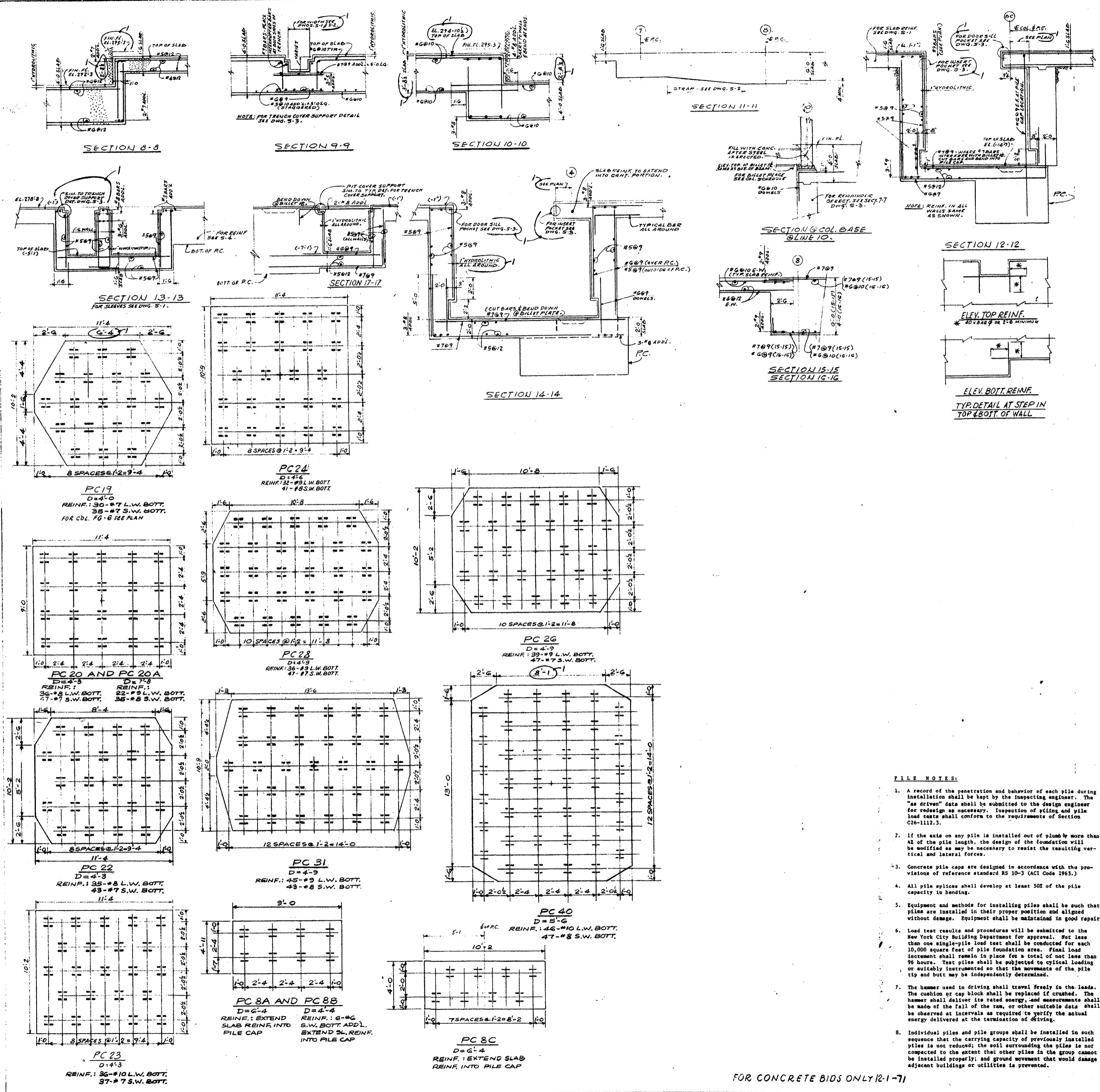
DRAWING NUMBER  
**S-5**

DATE

SCALE

FOR CONCRETE BIDS ONLY 12-1-71

REVISIONS	
NO.	DATE DESCRIPTION
1	1-27-72 REVISED AS CIRCLED



REVISED FOR 100 TONS PILE CAPACITY  
SEPT. 13-71

ISSUED TO	NO.	DATE	PKG. NO.
<b>BANKERS TRUST PLAZA</b>			
<b>A FISHER BROTHERS PROJECT</b>			
GREENWICH AND LIBERTY ST. N.Y. N.Y.			
<b>SHREVE, LAMB &amp; HARMON ASSOCIATES P.C. ARCHITECTS</b>			
475 PARK AVENUE SOUTH N.Y. N.Y. 10016			
<b>PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS</b>			
919 THIRD AVENUE N.Y. N.Y. 10022			
<b>THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS</b>			
515 MADISON AVENUE N.Y. N.Y. 10022			
<b>J. ARON, BAUM &amp; BOLLES MECH. &amp; ELEC. ENGINEERS</b>			
345 PARK AVENUE N.Y. N.Y. 10022			

- FILE NOTES:**
- A record of the penetration and behavior of each pile during installation shall be kept by the inspecting engineer. The "no drive" data shall be submitted to the design engineer for redesign as necessary. Inspection of piling and pile load tests shall conform to the requirements of Section 220-111.3.
  - If the axis on any pile is installed out of plumb by more than 4% of the pile length, the design of the foundation will be modified as may be necessary to resist the resulting vertical and lateral forces.
  - Concrete pile caps are designed in accordance with the provisions of reference standard BS 10-3 (ACI Code 1965.)
  - All pile splices shall develop at least 50% of the pile capacity in bending.
  - Equipment and methods for installing piles shall be such that piles are installed in their proper position and aligned without damage. Equipment shall be maintained in good repair.
  - Load test results and procedures will be submitted to the New York City Building Department for approval. Not less than one single-pile load test shall be conducted for each 10,000 square feet of pile foundation area. Final load increment shall remain in place for a total of not less than 96 hours. Test piles shall be subjected to cyclical loading or suitably instrumented so that the movements of the pile tip and butt may be independently determined.
  - The hammer used in driving shall travel freely in the leads. The cushion or cap block shall be replaced if crushed. The hammer shall deliver its rated energy, and measurements shall be made of the fall of the ram, or other suitable data shall be observed at intervals as required to verify the actual energy delivered at the termination of driving.
  - Individual piles and pile groups shall be installed in such sequence that the carrying capacity of previously installed piles is not reduced; the soil surrounding the piles is not compacted to the extent that other piles in the group cannot be installed properly; and ground movement that would damage adjacent buildings or utilities is prevented.

**FOUNDATION SECTIONS AND TYPICAL DETAILS**

PROJECT NUMBER  
**7101**

DRAWING NUMBER  
**S-4**

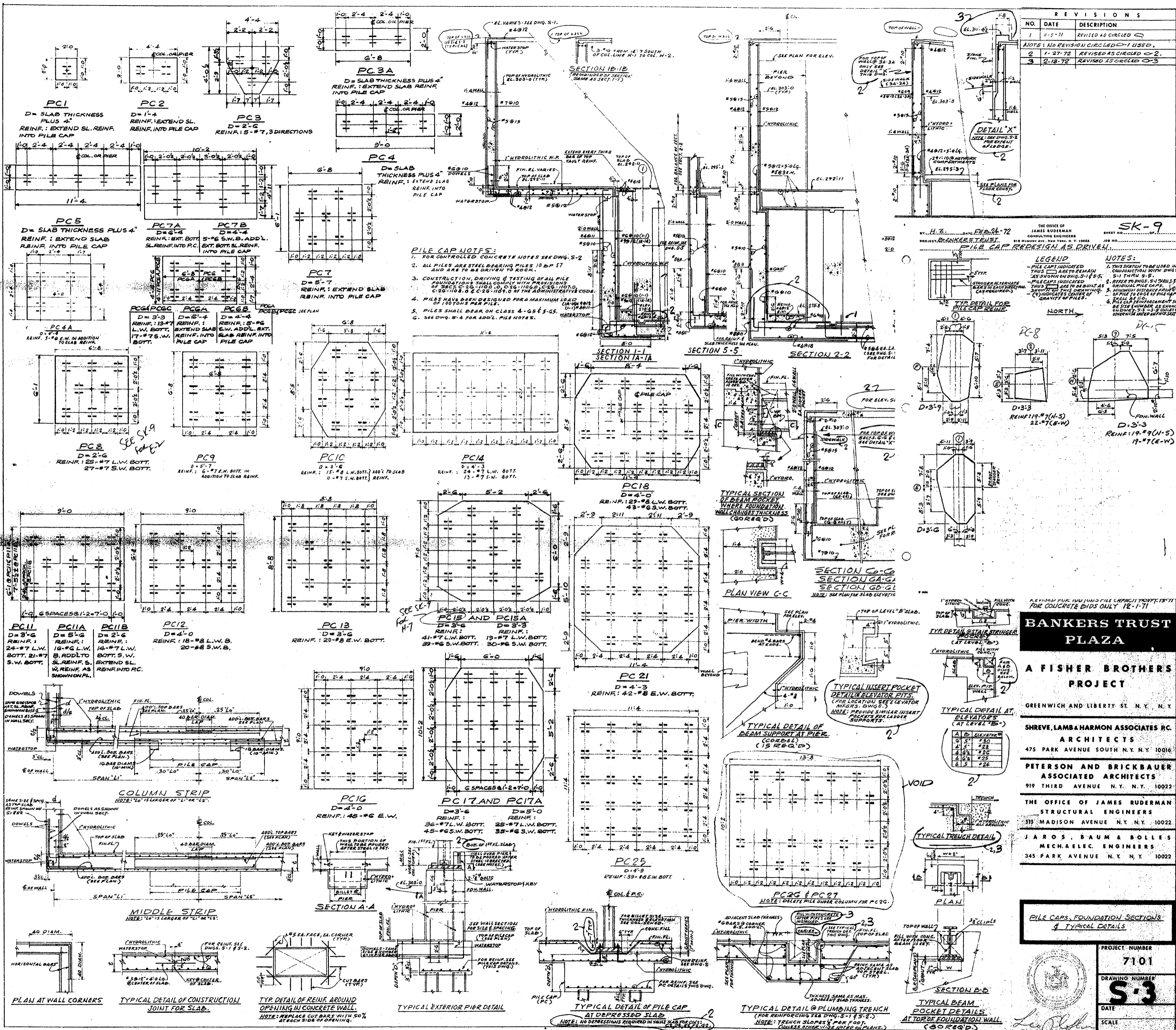
DATE

SCALE

FOR CONCRETE BIDS ONLY (2-1-71)

REVISIONS		
NO.	DATE	DESCRIPTION
1	4-5-71	REVISED AS CIRCLED C-1
2	1-27-72	REVISED AS CIRCLED C-2
3	2-18-72	REVISED AS CIRCLED C-3

NOTE: NO REVISION CIRCLED C-1 USED.



**PILE CAP NOTES:**

- FOR CONTROLLED CONCRETE NOTES SEE DWG. S-2
- ALL PILES ARE STEEL BEARING PILES 10 IN. Ø AND ARE TO BE DRIVEN TO ROCK.
- CONSTRUCTION, DRIVING & TESTING OF ALL PILE CAPS SHALL BE IN ACCORDANCE WITH PROVISIONS OF SECTION 5.02 OF THE ADMINISTRATIVE CODE.
- PILES HAVE BEEN DESIGNED FOR A MAXIMUM USED (UNIFORM) LOAD OF 100 TONS PER PILE.
- PILES SHALL BEAR ON CLASS 4-GS & 5-GS.
- SEE DWG. S-4 FOR ADD'L. PILE NOTES.

**LEGEND**

PILE CAPS INDICATED THIS WAY ARE TO REMAIN AS SHOWN ON DWG. S-1 & S-2. PILES INDICATED THIS WAY ARE TO BE BUILT AS ORIGINAL PILE CAPS. MINIMUM 5" DIA. PILES TO BE USED FOR ALL PILES TO BE BUILT AS ORIGINAL PILE CAPS. PILE CAPS INDICATED THIS WAY ARE TO BE BUILT AS ORIGINAL PILE CAPS. MINIMUM 5" DIA. PILES TO BE USED FOR ALL PILES TO BE BUILT AS ORIGINAL PILE CAPS.

**NOTES:**

- THIS SKETCH TO BE USED IN CONNECTION WITH DWG. S-1 THRU S-5.
- REFER TO DWG. S-1 & S-2 FOR ORIGINAL PILE CAPS.
- MINIMUM 5" DIA. PILES TO BE USED FOR ALL PILES TO BE BUILT AS ORIGINAL PILE CAPS.
- PILE CAP REINFORCEMENT SHALL BE SET (NUMBER AS SHOWN ON DWG. S-1 & S-2) UNLESS OTHERWISE NOTED.

**BANKERS TRUST PLAZA**

A FISHER BROTHERS PROJECT

GREENWICH AND LIBERTY ST. N.Y. N.Y.

SHREVE, LAMB & HARMON ASSOCIATES INC. ARCHITECTS  
475 PARK AVENUE SOUTH N.Y. N.Y. 10016

PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS  
919 THIRD AVENUE N.Y. N.Y. 10022

THE OFFICE OF JAMES RUDERMAN STRUCTURAL ENGINEERS  
385 MADISON AVENUE N.Y. N.Y. 10022

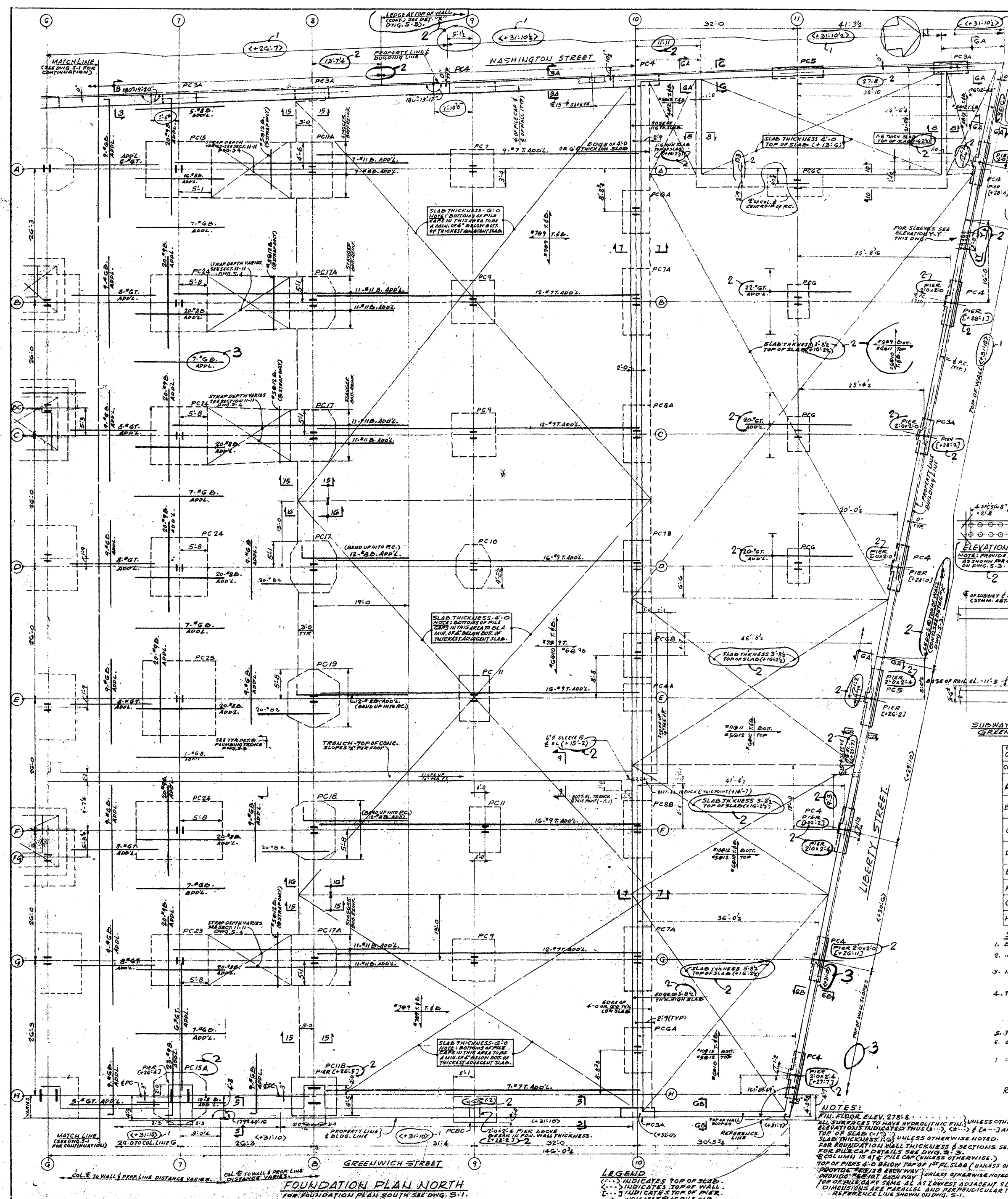
J. A. ROS, BAUM & BOLLES MECH. & ELEC. ENGINEERS  
345 PARK AVENUE N.Y. N.Y. 10022

**PILE CAPS, FOUNDATION SECTIONS & TYPICAL DETAILS**

PROJECT NUMBER	7101
DRAWING NUMBER	S-3
DATE	
SCALE	



James Ruderman



- FOUNDATION NOTES:**
- All concrete for piers, pile caps and slabs to be 5000 lbs. per square inch controlled concrete. All concrete for foundation walls to be 3500 lbs. per square inch controlled concrete.
  - Piers shall be reinforced with 18 of vertical reinforcement (#5 min.) uniformly spaced around perimeter and #3 ties 10" o.c.
  - Elevations are given relative to architects datum (+0'-0") which is City datum elevation (-300.00).
  - Provide pockets in foundation walls for wall bearing beams.
  - First dimension of piers is parallel to web of column unless otherwise noted.
  - No backfill shall be placed against foundation walls until adjoining floors have been poured and structural initial set.
  - For all exterior wall columns, omit wall directly over pier until after steel is erected and then fill in with same concrete by superstructure contractor.
  - Provide slots, holes and openings in foundation walls as required for electrical and mechanical trades.
  - No construction shall be started before borings are submitted in accordance with Sect. C26-1101.0 of the Administrative Code.
  - Provide ejector pits, sump pits, etc. as called for on architectural and mechanical drawings.
  - Provide water stops where shown on drawings and at all joints.
  - No anchor bolts, dowels, etc. permitted to pierce hydroblastic finish for concrete pads, etc.
  - Load test will be filed in accordance with Sect. C26-1107.1 of the Administrative Code.
  - All reinforcement shall be deformed bars of intermediate grade new billet steel conforming to current requirements of ASTM A616.
  - All grout under column piers shall be non-shrink and shall have a minimum compressive strength of 7500 psi at 28 days as measured by 2" x 2" x 2" cubes taken and tested in accordance with the procedure in A.S.T.M. C 1017 latest edition. Such tests shall be taken from the grout by an independent laboratory and the results shall be reported to the supervising engineer and Department of Buildings.

- FIELD PROCEDURE NOTES:**
- No horizontal joints shall be placed in walls except as shown on drawings, without the approval of the engineer.
  - For water stop requirements see Foundation Specifications.
  - Maximum lengths of foundation wall pour in one operation shall be no more than 60 feet.

- CONTROLLED CONCRETE NOTES:**
- All concrete work shall be inspected by a Licensed Professional Engineer engaged by the Owner and approved by the Department of Buildings as per C26-1004.4 of the New York City Building Code. A record shall be kept of such inspections covering the quantity and quality of concrete materials, the progress of the work, the mixing of concrete and placing of the reinforcing steel, the temperatures, including those of the concrete when placed, and the protection given the concrete during curing. Such records shall be kept on file by the architect during the progress of the work and for two years after completion of the structure, and shall be available for inspection by the Superintendent at all times during this period as per Sect. C26-1004.4 of the New York City Building Code. Four standard cylinders should be made per 50 cubic yards of concrete as per IS 10-3 (Sect. 504). Cores of all tests to be done by the Owner.
  - During the progress of the work, samples of concrete shall be taken directly from the mixer and tested as per IS 10-1 of the New York City Building Code. Records of slump, air content, temperatures, weight per cubic foot and compression tests of concrete samples shall be kept and filed with the Building Department. Twenty-eight days after the specimens are molded, three acceptance cylinders shall be tested in compression in accordance with ASTM C39-11 by an approved testing laboratory. The test strength shall be the average of the breaking strengths of the three acceptance cylinders. The fourth cylinder cast shall be similarly tested in compression seven days after it is molded.
  - Before any concrete work is performed, an amendment (Form 10A) shall be submitted by the licensed Professional Engineer engaged by the Owner and approved by the Superintendent of Buildings, stating that he has assumed responsibility for inspection of the concrete work and will file all reports as required by the Department of Buildings.

**REVISIONS**

NO.	DATE	DESCRIPTION
1	10-20-71	REVISED AS CIRCLED C-1
2	11-2-71	REVISED TOP OF WALL IS CIRCLED D AND CIRCLED D-1
3	1-27-72	REVISED AS CIRCLED E-1
4	2-10-72	REVISED AS CIRCLED G-1

**FOURTH FLOOR TO PIER**

CH. NO.	LOAD
A	780
B	880
C	1390
D	1250
E	1120
F	1490
G	1400
H	1950
I	1450
J	1150
K	2310
L	850
M	2100
N	2100
O	1750
P	1300
Q	1500

- SUBWAY NOTES:**
- BUILDING MATERIALS & EQUIPMENT ARE NOT TO BE STORED IN SUBWAY STRUCTURE OR NEARBY VENTILATORS ARE TO BE UNDERGOING INSPECTION AND REPAIR AS DIRECTED BY TRANSIT AUTHORITY ENGINEER.
  - IF REPAIRS OF THE SUBWAY STRUCTURE OR NEARBY VENTILATORS ARE DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS AS THE ORIGINALS AT THE EXPENSE OF THE OWNER OF THE BUILDING.
  - THE TRANSIT AUTHORITY FURTHER RESERVES THE RIGHT TO PLACE WATCHMEN, FLASHERS AND OTHER PERSONNEL IN THE SUBWAY AT ANY TIME DURING THE CONSTRUCTION OF THE FOUNDATION. IF DAMAGED NECESSARILY, TRANSIT AUTHORITY ENGINEER SHALL BE ADVISED IMMEDIATELY AND THE COST OF THIS PERSONNEL AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE BUILDING.
  - TRANSIT AUTHORITY IS TO GET SEVEN DAYS NOTICE PRIOR TO ANY EXCAVATION.
  - EXCAVATION OPERATIONS ADJACENT TO TRANSIT STRUCTURE TO BE SUBJECT TO SUPERVISION BY TRANSIT AUTHORITY ENGINEER.
  - CONTRACTOR TO ARRANGE A MEETING WITH TRANSIT AUTHORITY ENGINEER PRIOR TO STARTING FOUNDATION WORK.

**FOUNDATION PLAN (NORTH)**

REVISED FOR 100 TONS PILE CAPACITY SEPT 13-71

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY ST. N.Y. N.Y.

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**JAROS, BAUM & BOLLES MECH. ELEC. ENGINEERS**

345 PARK AVENUE N.Y. N.Y. 10022

**FOUNDATION PLAN (NORTH)**

PROJECT NUMBER **7101**

DRAWING NUMBER **S-2**

DATE

SCALE

**FOUNDATION PLAN NORTH**  
FOR FOUNDATION PLAN SOUTH SEE DWG. S-1

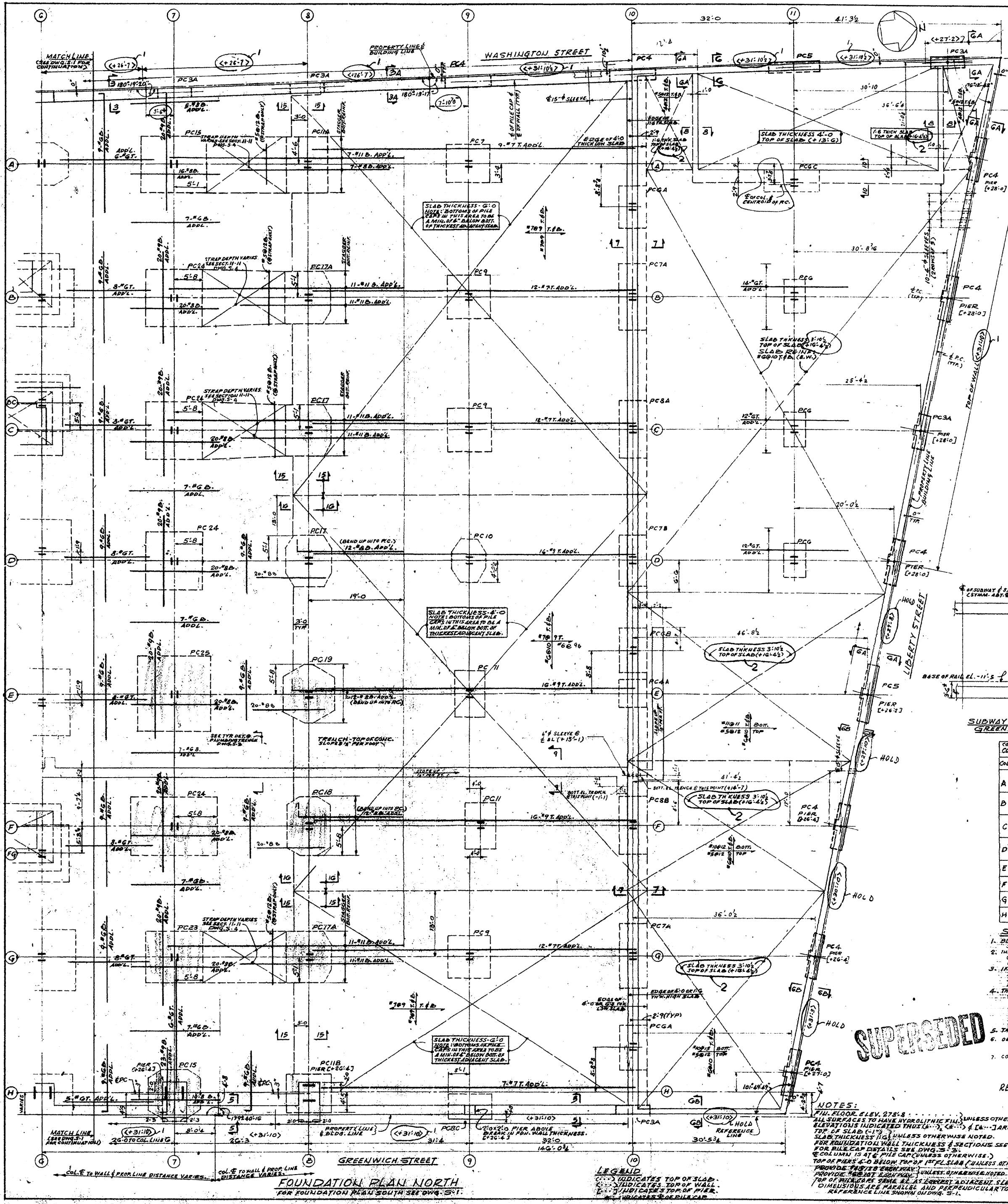
**LEGEND**

○ INDICATES TOP OF SLAB  
○ INDICATES TOP OF WALL  
○ INDICATES TOP OF PIER  
○ INDICATES PILE CAP

**NOTES:**

FIN. FLOOR ELEV. 278'-8"  
ALL SURFACES TO HAVE HYDROBLASTIC FIN. UNLESS OTHERWISE NOTED.  
ELEVATIONS INDICATED THUS (3'-10") & (4'-11") ARE ABOVE OR BELOW EL. 278'-8".  
TOP OF SLAB (S-1) & (S-2) ARE ABOVE OR BELOW EL. 278'-8".  
SLAB THICKNESS 4'-0" UNLESS OTHERWISE NOTED.  
FOR FOUNDATION WALL THICKNESS & SECTIONS SEE DWG. S-3; SEE DWG. S-4 FOR OTHER SECTIONS.  
FOR PILE CAP DETAILS SEE DWG. S-5.  
SLAB THICKNESS 4'-0" UNLESS OTHERWISE NOTED.  
TOP OF PIERS 4'-0" BELOW TOP OF 14" FL. SLAB (UNLESS OTHERWISE NOTED).  
PROVIDE 2" DIA. 28 EACH WAY 12" LONG AT LOWEST ADJACENT SLAB U.O.H.  
TOP OF PILE CAPS SAME AS AT LOWEST ADJACENT SLAB U.O.H.  
DIMENSIONS ARE PER WALL AND PERPENDICULAR TO REFERENCE LINE SHOWN ON DWG. S-1.

FOR CONCRETE BIDS ONLY 10-1-71



- FOUNDATION NOTES:**
- All concrete for piers, pile caps and slabs to be 5000 lbs. per square inch controlled concrete; All concrete for foundation walls to be 3500 lbs. per square inch controlled concrete.
  - Piers shall be reinforced with 1% of vertical reinforcement (#9 min.) uniformly spaced around perimeter and #3 ties 10" o.c.
  - Elevations are given relative to architects datum (0'-0") which is City datum elevation (+200.00).
  - Provide pockets in foundation walls for wall bearing beams.
  - First dimension of piers to parallel to web of column above unless otherwise noted.
  - No backfill shall be placed against foundation wall until adjoining floors have been poured and attained initial set.
  - For all exterior wall columns, omit wall directly over pier until after steel is erected and then fill in with stone concrete by superstructure contractor.
  - Provide slots, holes and openings in foundation walls as required for electrical and mechanical trades.
  - No construction shall be started before borings are submitted in accordance with Sect. C28-1101.0 of the Administrative Code.
  - Provide ejector pits, sump pits, etc. as called for on architectural and mechanical drawings.
  - Provide water stops where shown on drawings and at all joints.
  - No anchor bolts, dowels, etc. permitted to pierce hydrostatic finish for concrete pads, etc.
  - Load test will be filed in accordance with Sect. C28-1107.1 of the Administrative Code.
  - All reinforcement shall be deformed bars of intermediate grade new billet steel conforming to current requirements of ASTM A63, 60.
  - All girth under column billets shall be non-shrink and shall have a minimum compressive strength of 7500 psi at 28 days of the New York City Building Code. Records of slump, air content, and temperature shall be kept on file by the architect during the progress of the work and for two years after completion of the structure, and shall be available for inspection by the Superintendent at all times during this period as per Sect. C28-1101.4 of the New York City Building Code. Four standard cylinders should be made per 50 cubic yards of concrete as per AS 10-3 (Sect. 504). Costs of all tests and inspections to be borne by the Owner.
- FIELD PROCEDURE NOTES:**
- No horizontal joints shall be placed in walls except as shown on drawings, without the approval of the engineer.
  - For water stop requirements see Foundation Specifications.
  - Maximum lengths of foundation wall pour in one operation shall be no more than 60 feet.

- CONTROLLED CONCRETE NOTES:**
- All concrete work shall be inspected by a Licensed Professional Engineer engaged by the Owner and approved by the Engineer of Record as per C28-1004.0 of the New York City Building Code. A record shall be kept of such inspections covering the quantity and quality of concrete materials, the progress of the work, the mixing of concrete and placing of the reinforcing steel, the temperatures, including those of the concrete when placed, and the protection given the concrete during curing. Such records shall be kept on file by the architect during the progress of the work and for two years after completion of the structure, and shall be available for inspection by the Superintendent at all times during this period as per Sect. C28-1101.4 of the New York City Building Code. Four standard cylinders should be made per 50 cubic yards of concrete as per AS 10-3 (Sect. 504). Costs of all tests and inspections to be borne by the Owner.
  - During the progress of the work, samples of concrete shall be taken directly from the mixer and tested as per AS 10-3 of the New York City Building Code. Records of slump, air content, and temperature, weight per cubic foot and compressive tests of concrete samples shall be kept and filed with the Building Department. Twenty-eight days after the specimens are molded, three acceptance cylinders shall be tested in compression in accordance with ASTM C39-61 by an approved testing laboratory. The test strength shall be the average of the breaking strengths of the three acceptance cylinders. The fourth cylinder cast shall be similarly tested in compression seven days after it is molded.
  - Before any concrete work is performed, an amendment (Form 10A) shall be submitted by the Licensed Professional Engineer engaged by the Owner and approved by the Engineer of Record, stating that he has assumed responsibility for inspection of the concrete work and will file all reports as required by the Department of Buildings.

REVISIONS		
NO.	DATE	DESCRIPTION
1		ISSUED AS CONTRACT
2		1/31/57 REVISED PER COMMENTS AND GENERAL NOTES FOR FOUNDATION
3		

**BANKERS TRUST PLAZA**

**A FISHER BROTHERS PROJECT**

GREENWICH AND LIBERTY STS. N.Y. N.Y.

**SHREVE, LAMB & HARMON ASSOCIATES P.C.**  
ARCHITECTS  
475 PARK AVENUE SOUTH N.Y. N.Y. 10016

**PETERSON AND BRICKBAUER ASSOCIATED ARCHITECTS**  
919 THIRD AVENUE N.Y. N.Y. 10022

**THE OFFICE OF JAMES RUDERMAN**  
STRUCTURAL ENGINEERS  
315 MADISON AVENUE N.Y. N.Y. 10022

**J. A. ROSS, BAUM & BOLLES**  
MECHANICAL ENGINEERS  
345 PARK AVENUE N.Y. N.Y. 10022

**SUBWAY SECTION AT GREENWICH STREET**

COL. NO.	LOAD
9	780
A 10	680
11	1030
B 10	1390
11	1550
C 10	1120
11	1490
D 10	1400
11	1090
E 10	1450
11	850
F 10	2100
11	1150
G 10	2100
11	1750
H 10	1500
11	1800

- SUBWAY NOTES:**
- BUILDING MATERIALS/EQUIPMENT ARE NOT TO BE STORED ON SUBWAY VENTILATORS OR OPENINGS.
  - THE MAIN SUBWAY STRUCTURE EXHAUST VENTILATORS ARE TO BE UNDERPINNED OR SHORED AND BRACED FROM AS DIRECTED BY TRAVEL AUTHORITY ENGINEER.
  - IF ALTERATIONS TO THE SUBWAY STRUCTURE (PIERS OR WALLS) IS NECESSARY, IT SHALL BE SUPERVISED BY THE TRAVEL AUTHORITY ENGINEER.
  - THE TRAVEL AUTHORITY ENGINEER RESERVES THE RIGHT TO TAKE THE EXHAUST VENTILATORS OFF LINE AT ANY TIME DURING THE CONSTRUCTION OF THE BANKERS TRUST PLAZA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXHAUST VENTILATORS AND SHALL BE RESPONSIBLE FOR THE REPAIR OF THE EXHAUST VENTILATORS AT ALL TIMES DURING THE CONSTRUCTION OF THE BANKERS TRUST PLAZA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXHAUST VENTILATORS AND SHALL BE RESPONSIBLE FOR THE REPAIR OF THE EXHAUST VENTILATORS AT ALL TIMES DURING THE CONSTRUCTION OF THE BANKERS TRUST PLAZA.
  - THE TRAVEL AUTHORITY ENGINEER SHALL BE NOTIFIED SEVEN DAYS PRIOR TO THE STARTING OF ANY WORK ADJACENT TO THE SUBWAY STRUCTURE TO BE SUBJECT TO SUPERVISION BY TRAVEL AUTHORITY ENGINEER.
  - CONTRACTOR TO ARRANGE A MEETING WITH TRAVEL AUTHORITY ENGINEER PRIOR TO STARTING FOUNDATION WORK.

**FOUNDATION PLAN (NORTH)**

REVISED FOR 100 TONS PILE CAPACITY SEPT. 13-71

REC'D BY BANKERS TRUST

PROJECT NUMBER **7101**

DRAWING NUMBER **S-2**

DATE

SCALE

**NOTES:**

1. ALL SURFACES TO HAVE MINIMUM FINISH ELEVATIONS INDICATED THROUGHOUT DRAWING UNLESS OTHERWISE NOTED.

2. SLAB THICKNESS (T) UNLESS OTHERWISE NOTED.

3. FOR FOUNDATION WALL THICKNESS & SECTIONS SEE DRAWINGS; SEEING: S-4 FOR OTHER SECTIONS.

4. TOP OF PIER IS AT ELEVATION OF PILE CAP UNLESS OTHERWISE NOTED.

5. PROVIDE PILES TO BE 10' DIA. UNLESS OTHERWISE NOTED.

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**SUPERSEDED**

**FOUNDATION PLAN NORTH**  
FOR FOUNDATION PLAN SOUTH SEE DWG. S-1.