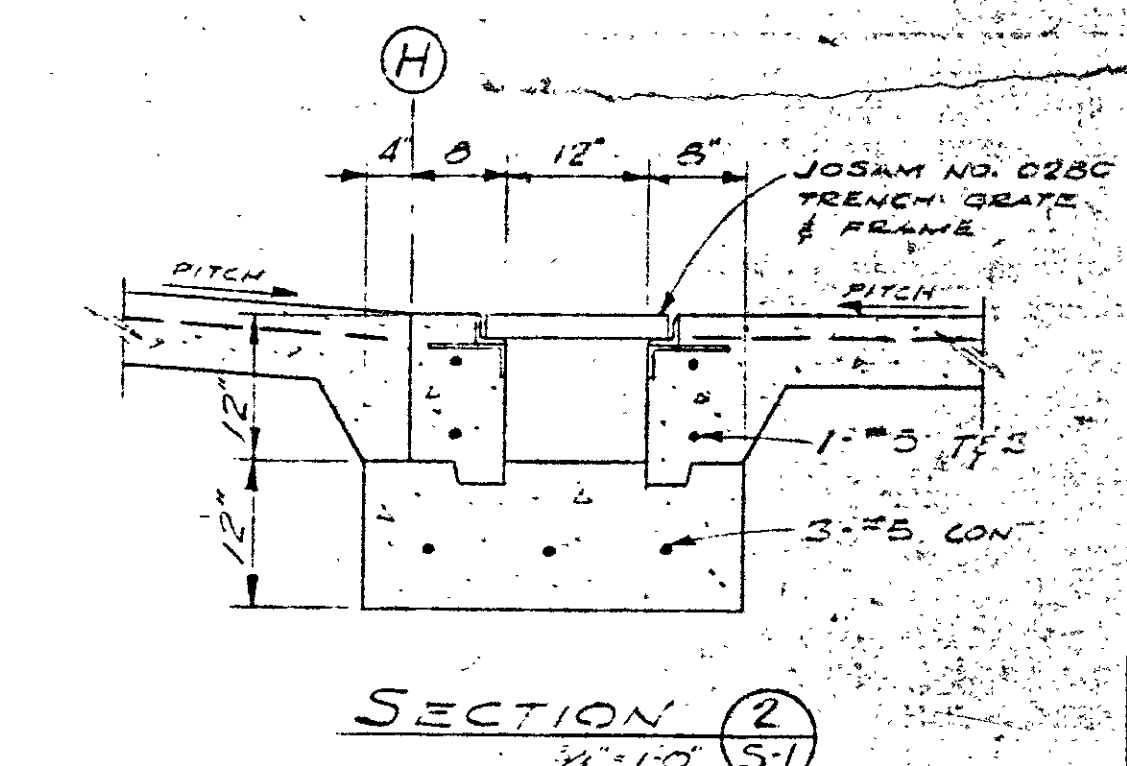
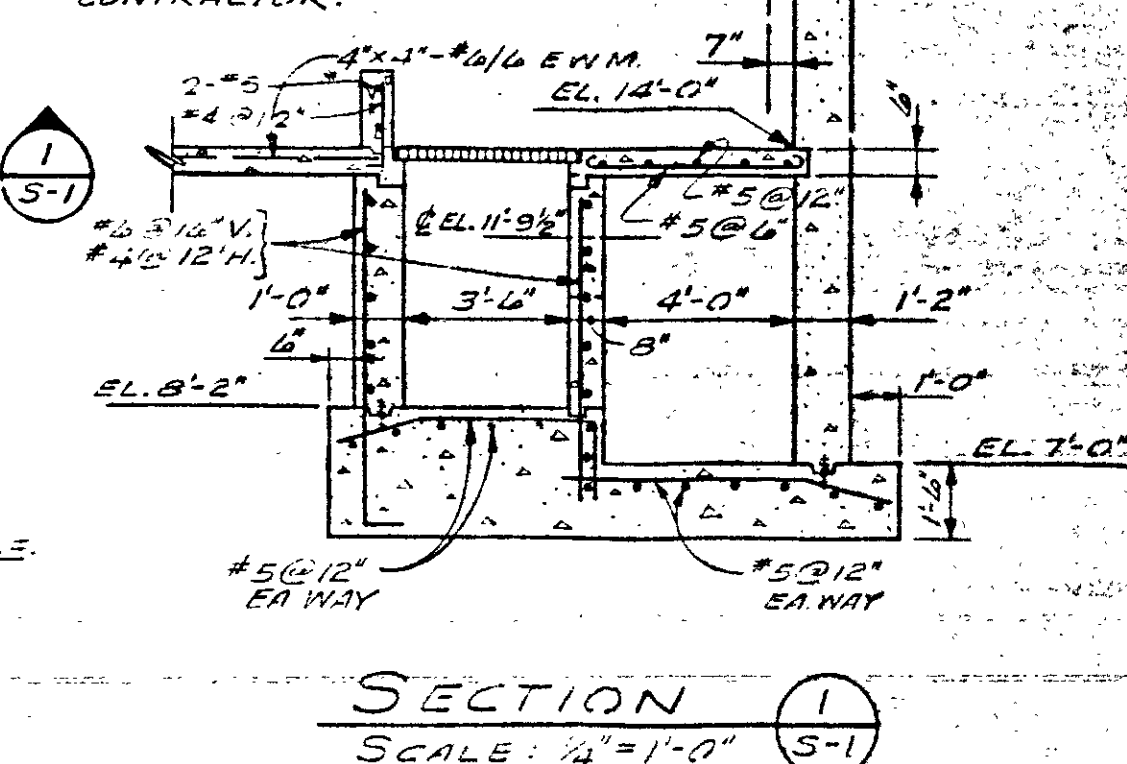
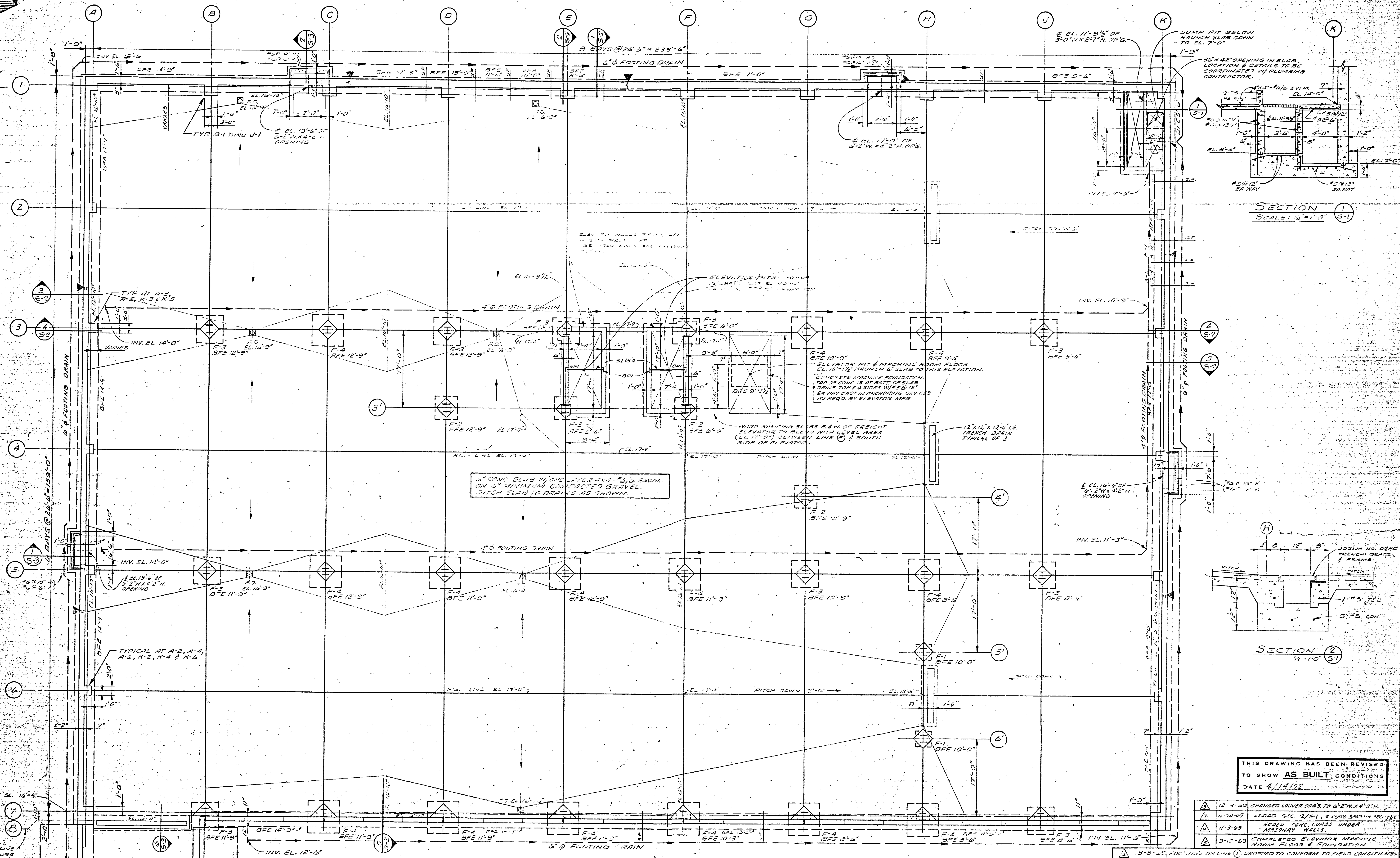


Abatement, Demolition and Site Reconstruction Design Services RFP
 Attachment 8 – Structural Drawings



FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

MARK	SIZE	DEPTH	REIN.	CONV.	REMARKS
F-1	3'-6" x 3'-0"	2'-0"	3'-0"	MINOR ANALYS	
F-2	5'-0" x 3'-0"	2'-0"	18'-0"	"	
F-3	4'-0" x 4'-0"	3'-0"	22'-0"	"	
F-4	7'-0" x 7'-0"	3'-0"	24'-0"	"	

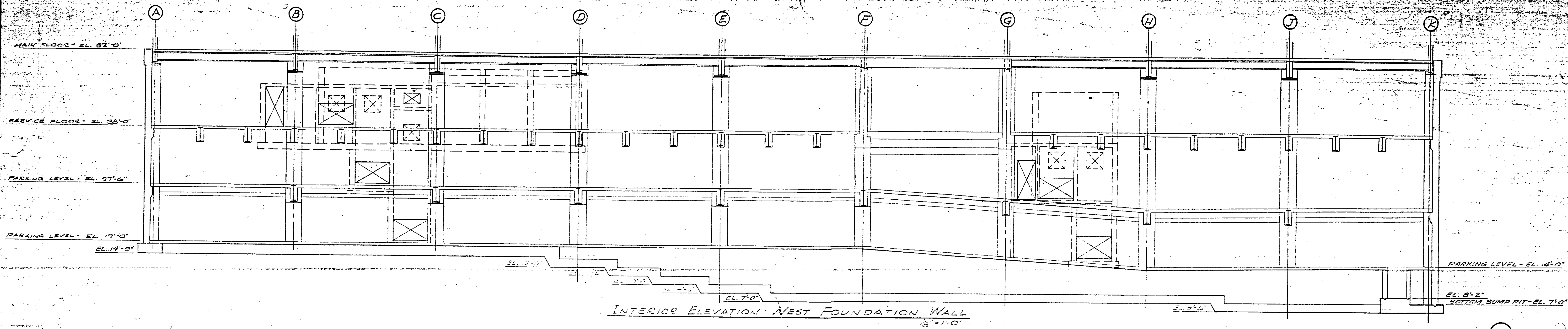
THIS DRAWING HAS BEEN REVISED TO SHOW AS BUILT CONDITIONS DATE 4/14/22

- 12-3-69 CHANGED LOWER PARTS TO 6" x 2" x 4" S.
- 11-24-69 ADDED SEC. 2/5-1, 2 CLRS BATH RM SEC. 128
- 11-3-69 ADDED CONC CURBS UNDER MASONRY WALLS.
- 9-10-69 COMPLETED ELEVATOR MACHINE ROOM FLOOR & FOUNDATION

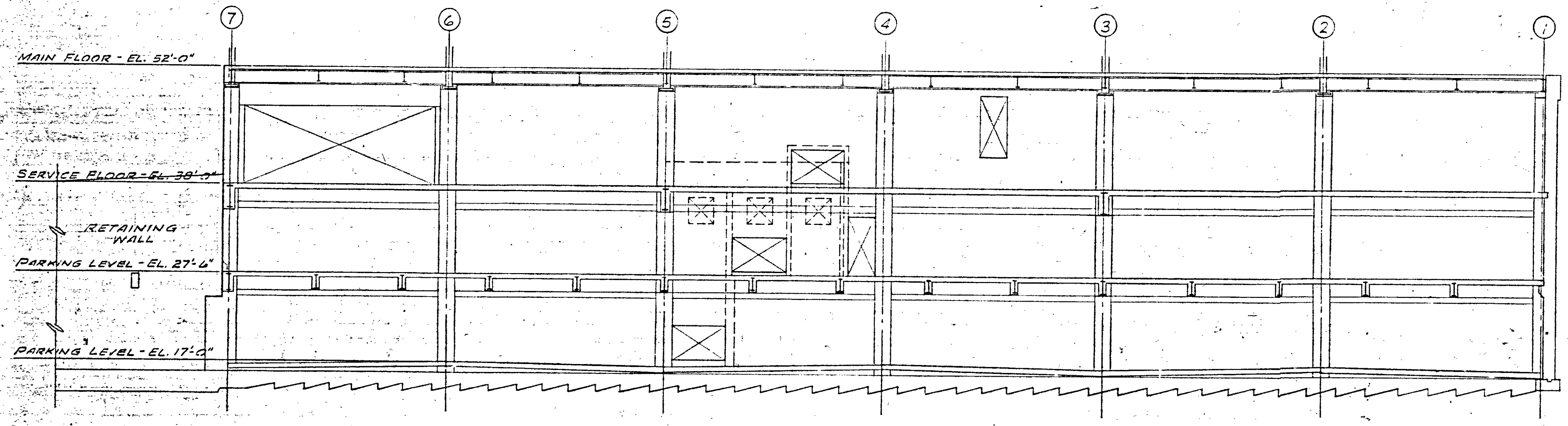
- 5-8-66 FOOTINGS ON LINE 1 DRIPPED TO CONFORM TO FIELD CONDITIONS
- 7-16-69 REISSUED FOR REINFORCING STEEL BIDDING
- 6-17-69 RE-SEED FOR STRUCTURAL STEEL BIDDING
- 6-10-69 REVISED FOOTING SIZES, ELIMINATE SPREAD FOOTINGS AT NORTH, WEST & SOUTH WALLS.

S-1
FOUNDATION PLAN
OPERATIONS CENTER
HARTFORD NATIONAL BANK AND TRUST COMPANY
 HARTFORD, CONNECTICUT
CHARLES DU BOSE FAIA, ARCHITECT
 45 WOODLAND STREET, HARTFORD, CONNECTICUT
JAMES S. MINGES & ASSOCIATES ENGINEERS
 FARMINGTON, CONNECTICUT
 DATE: MAY 5, 1969
 JOB NO. 1085

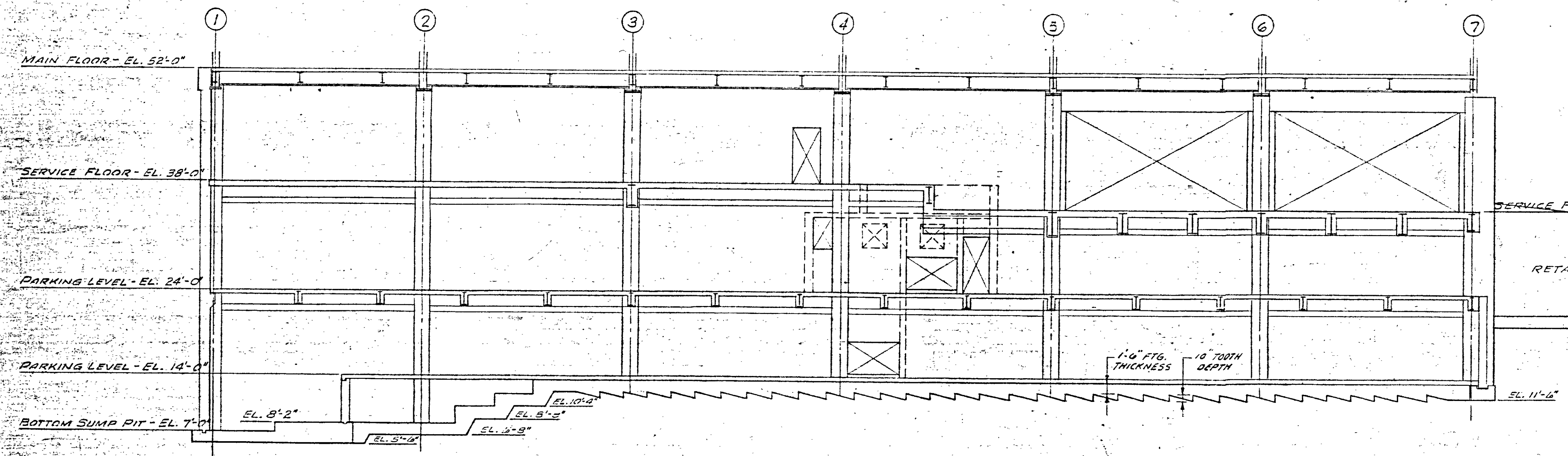




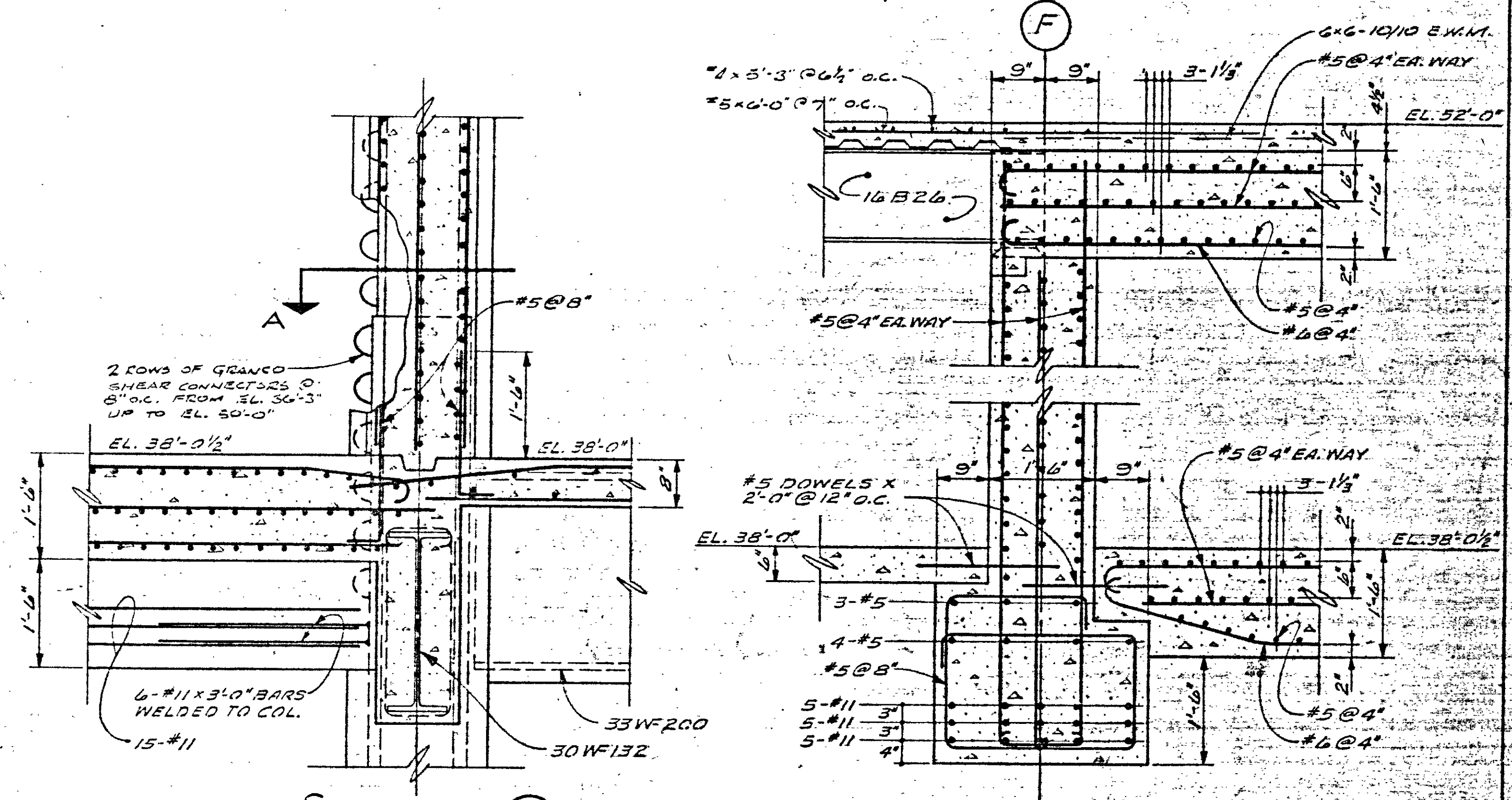
INTERIOR ELEVATION - WEST FOUNDATION WALL
3/8" = 1'-0"



INTERIOR ELEVATION - SOUTH FOUNDATION WALL
1/8" = 1'-0"



INTERIOR ELEVATION - NORTH FOUNDATION WALL
3/8" = 1'-0"



SECTION 2
3/8" = 1'-0"

SECTION 1
SCALE: 3/4" = 1'-0" S-1A

SECTION A
3/8" = 1'-0"

NOTE: PURPOSE OF SAWTOOTH PATTERN (FOR NORTH & SOUTH WALLS ONLY) IS TO KEY FOOTING TO ROCK TO COUNTERACT IMBALANCE IN LATERAL EARTH PRESSURES ON EAST & WEST WALLS. SPECIAL CARE MUST BE TAKEN IN EXCAVATING & SHAPING THE ROCK SURFACE TO ACHIEVE THE REQUIRED PATTERN.

3-10-68	CHANGE T/SLAB AT NORTH WALL TO EL. 24'-0"
5-8-68	FOOTINGS ON LINE 1 DROPPED TO CONFORM TO FIELD CONDITIONS
7-16-68	REVISED FOR REINFORCING STEEL BIDDING
6-17-68	REISSUED FOR STRUCTURAL STEEL BIDDING
6-10-68	ELIMINATE SPREAD FOOTINGS AT WALLS

S-1A FOUNDATION WALL ELEVATIONS
OPERATIONS CENTER

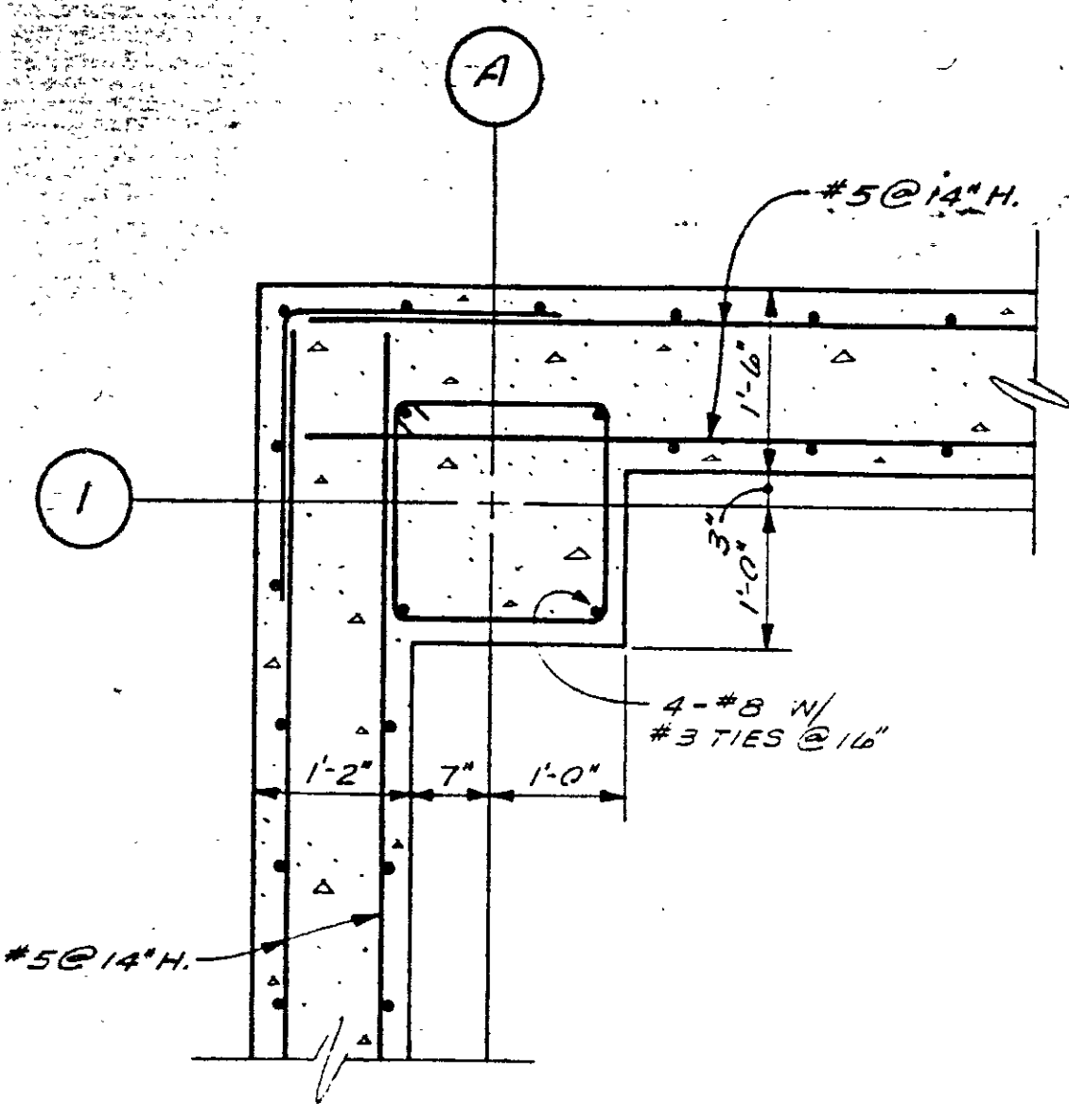
HARTFORD NATIONAL BANK AND TRUST COMPANY
HARTFORD, CONNECTICUT

APPROVED: D.S.W. FAIA ARCHITECT
DATE: MAY 29, 1968
JOB NO. 085
JAMES S. MINGES & ASSOCIATES ENGINEERS
HARTFORD, CONNECTICUT

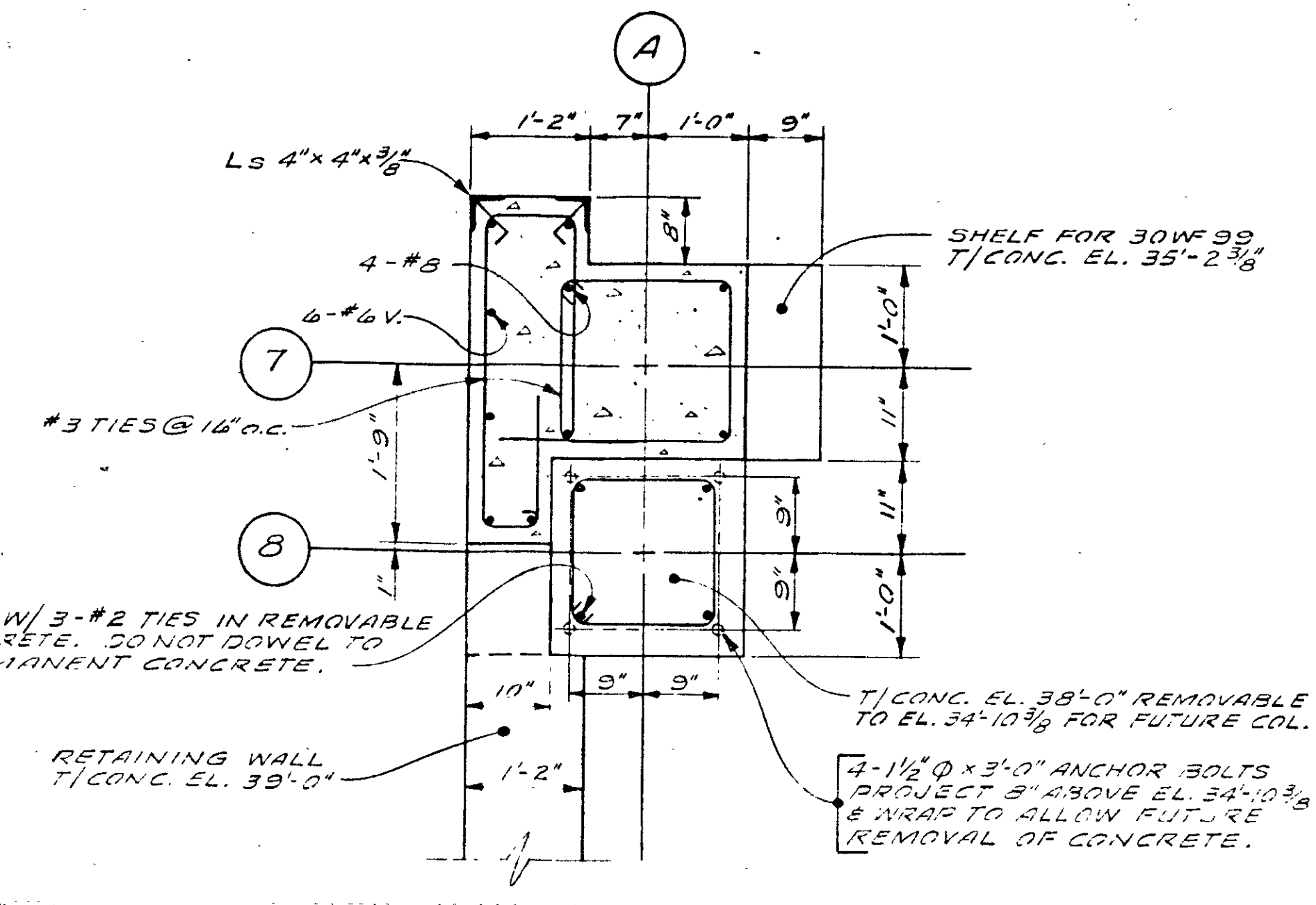
THIS DRAWING HAS BEEN REVISED TO SHOW AS BUILT CONDITIONS
DATE: 4/14/72

COMM. NO. 56-39

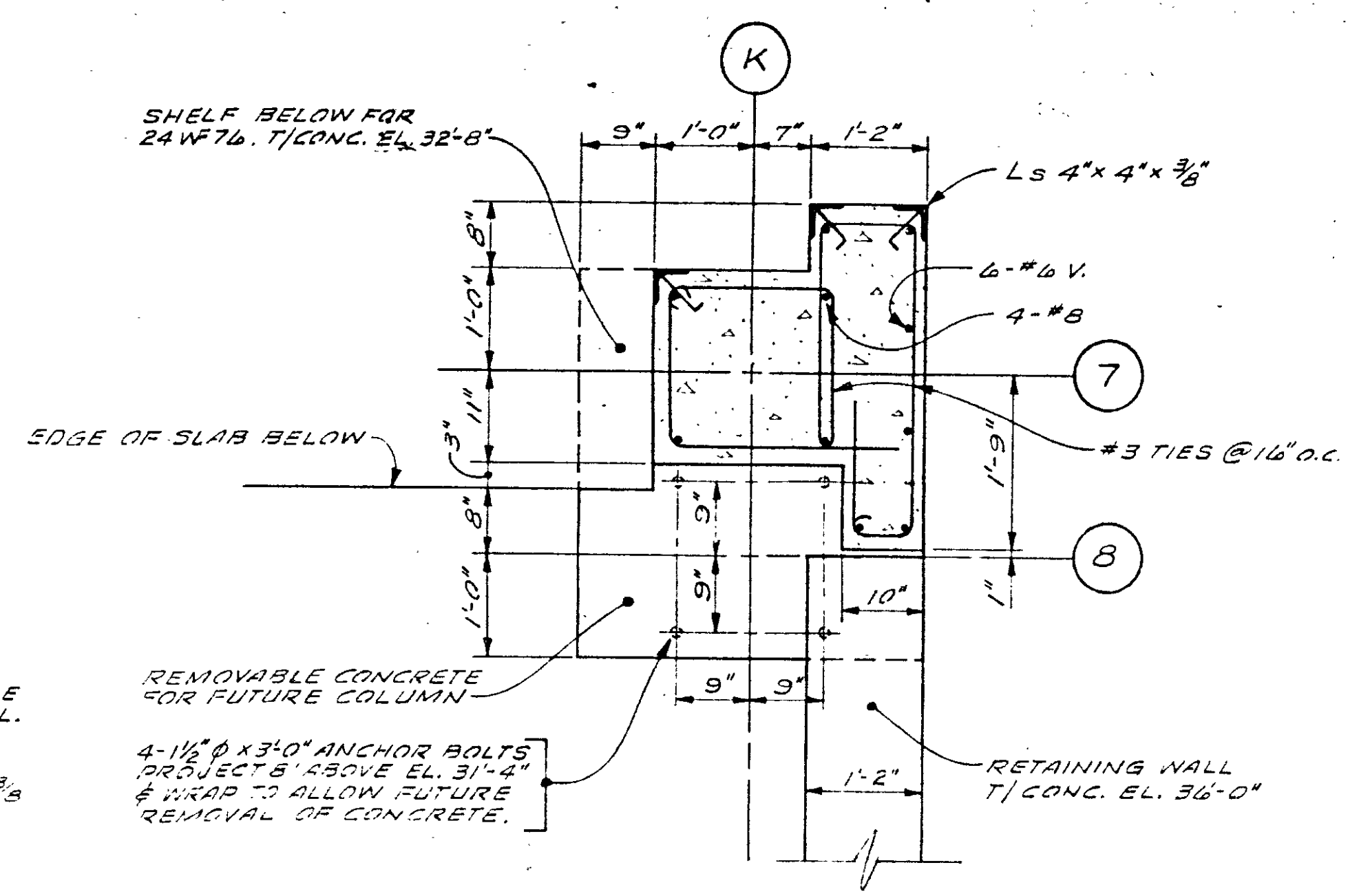




CORNER DETAIL AT A-1
SCALE: 3/4" = 1'-0"

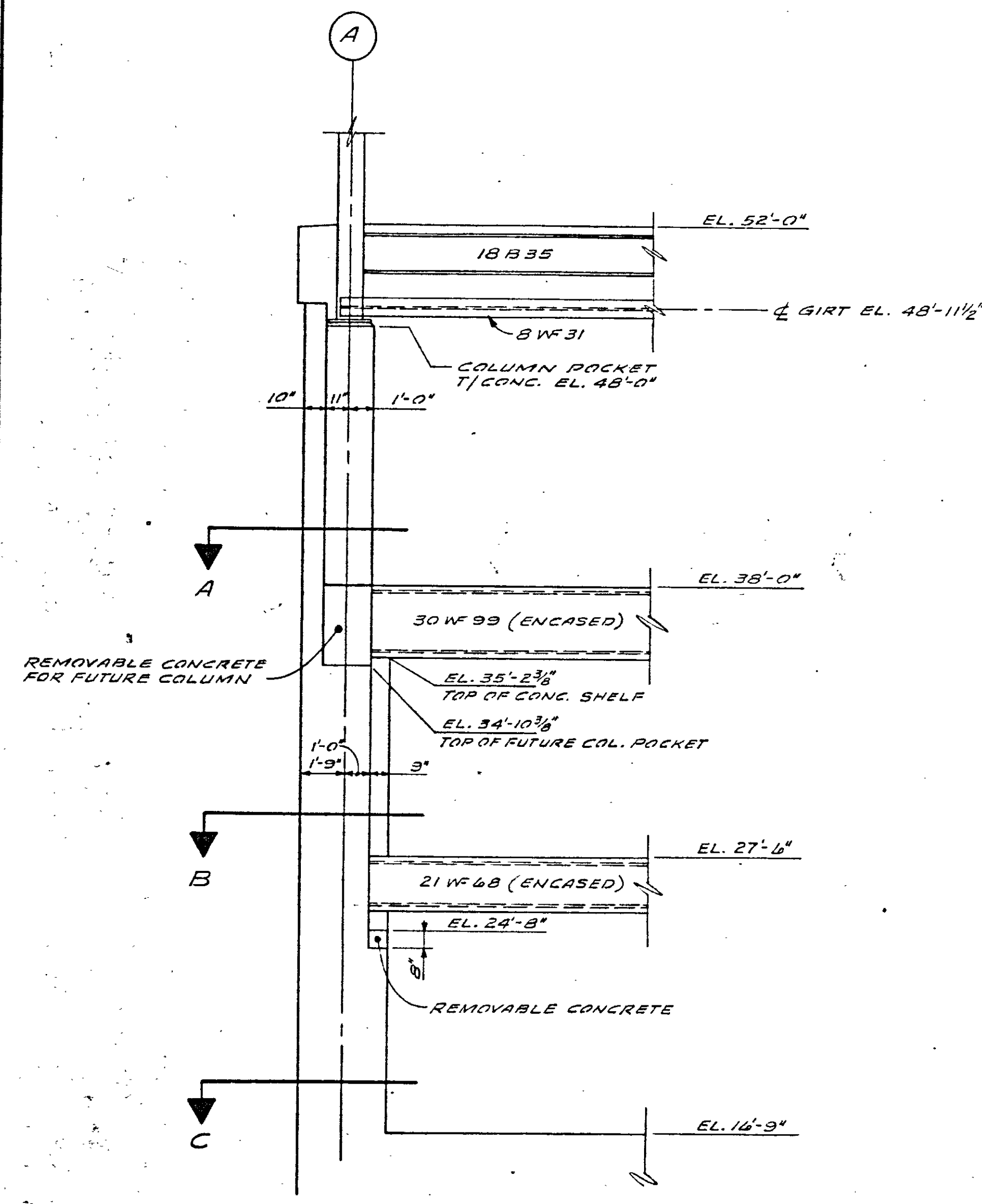


SECTION A



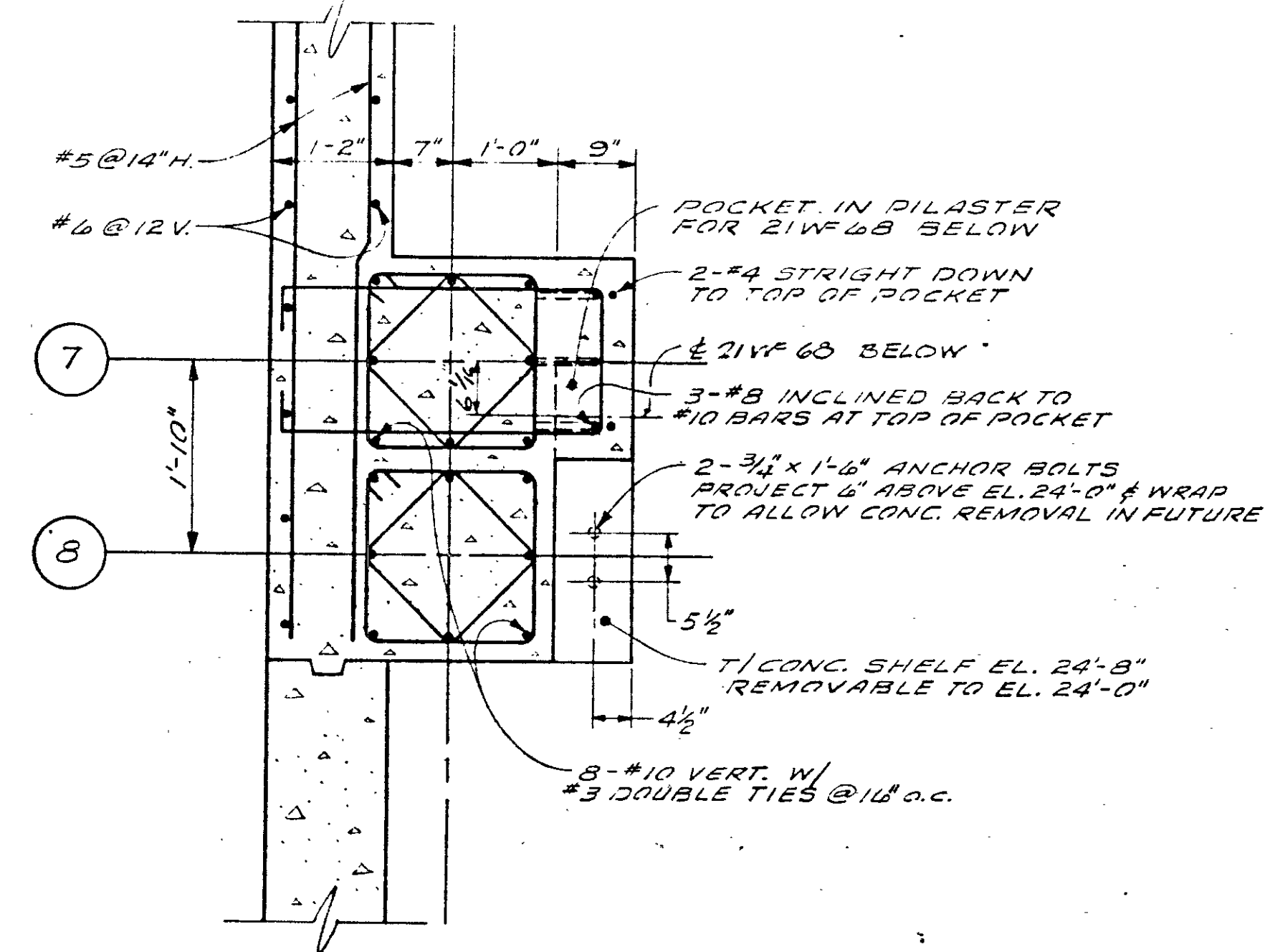
SECTION D

NOTE:
CONTACT SURFACES OF ALL CONCRETE DESIGNATED AS REMOVABLE SHALL BE LINED WITH 15# ROOFING FELT TO ASSURE CLEAN REMOVAL IN FUTURE.

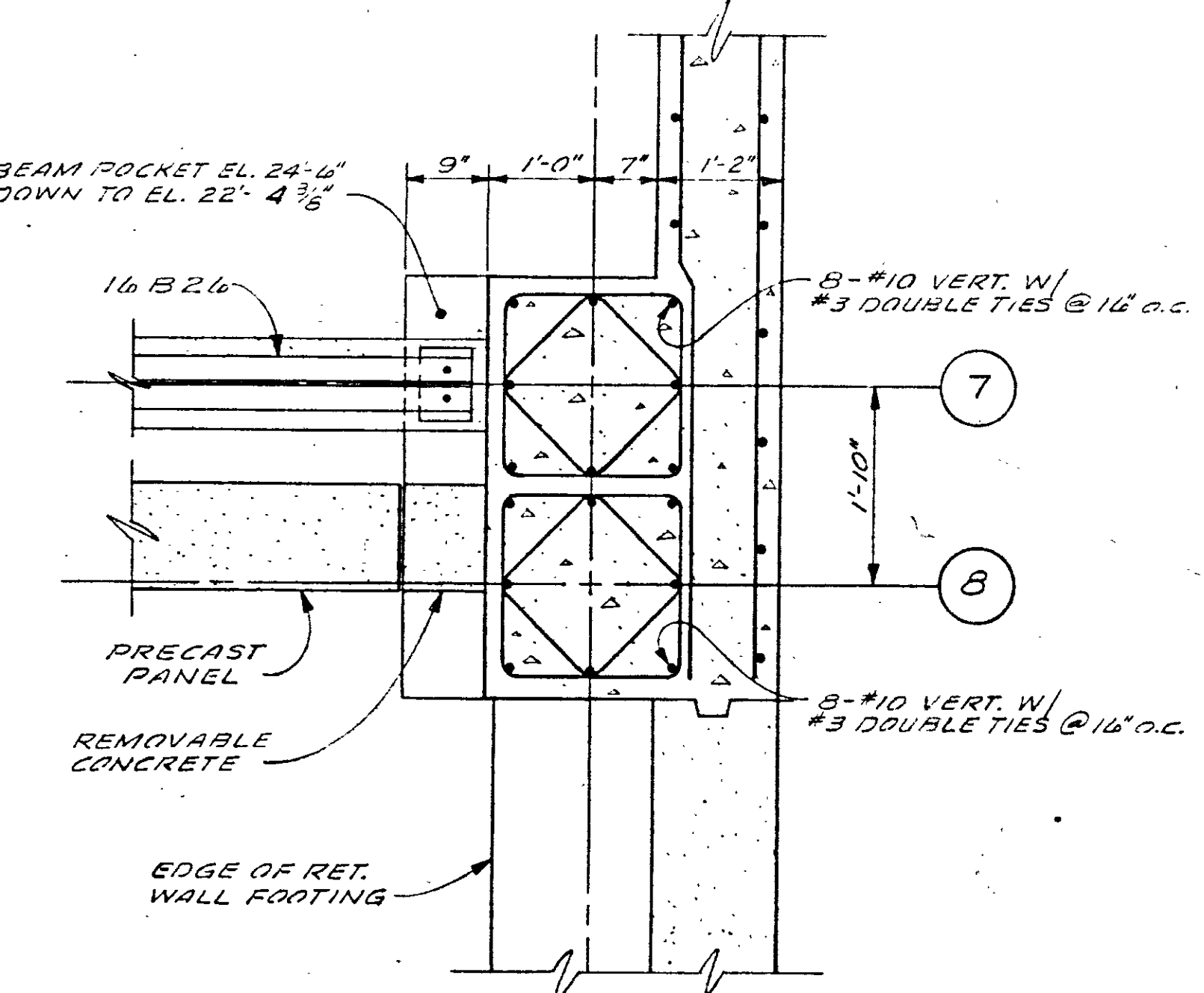


ELEVATION OF PILASTER A-7
SCALE: 1/4" = 1'-0"

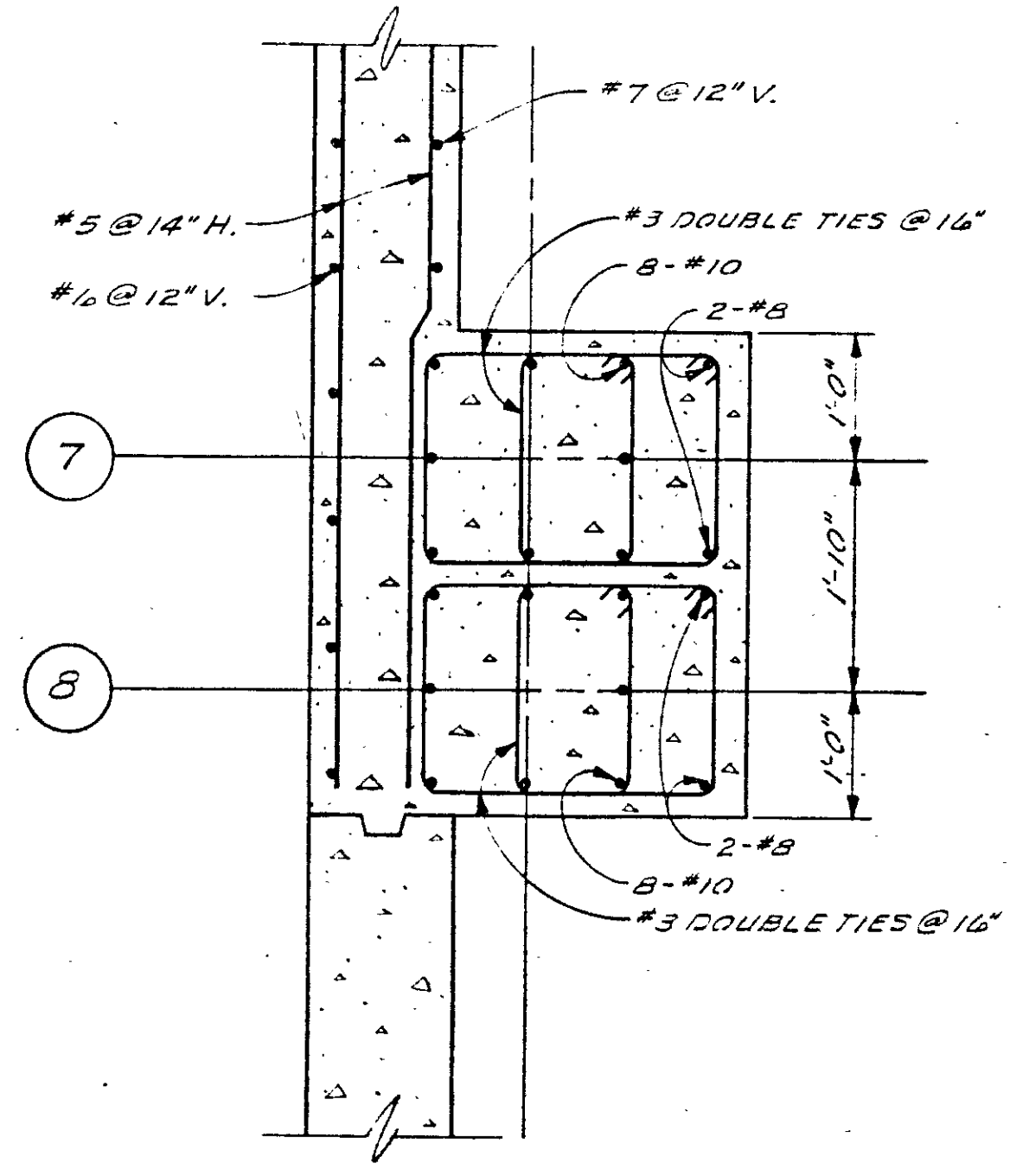
NOTE: RETAINING WALL & PRECAST PANELS NOT SHOWN.



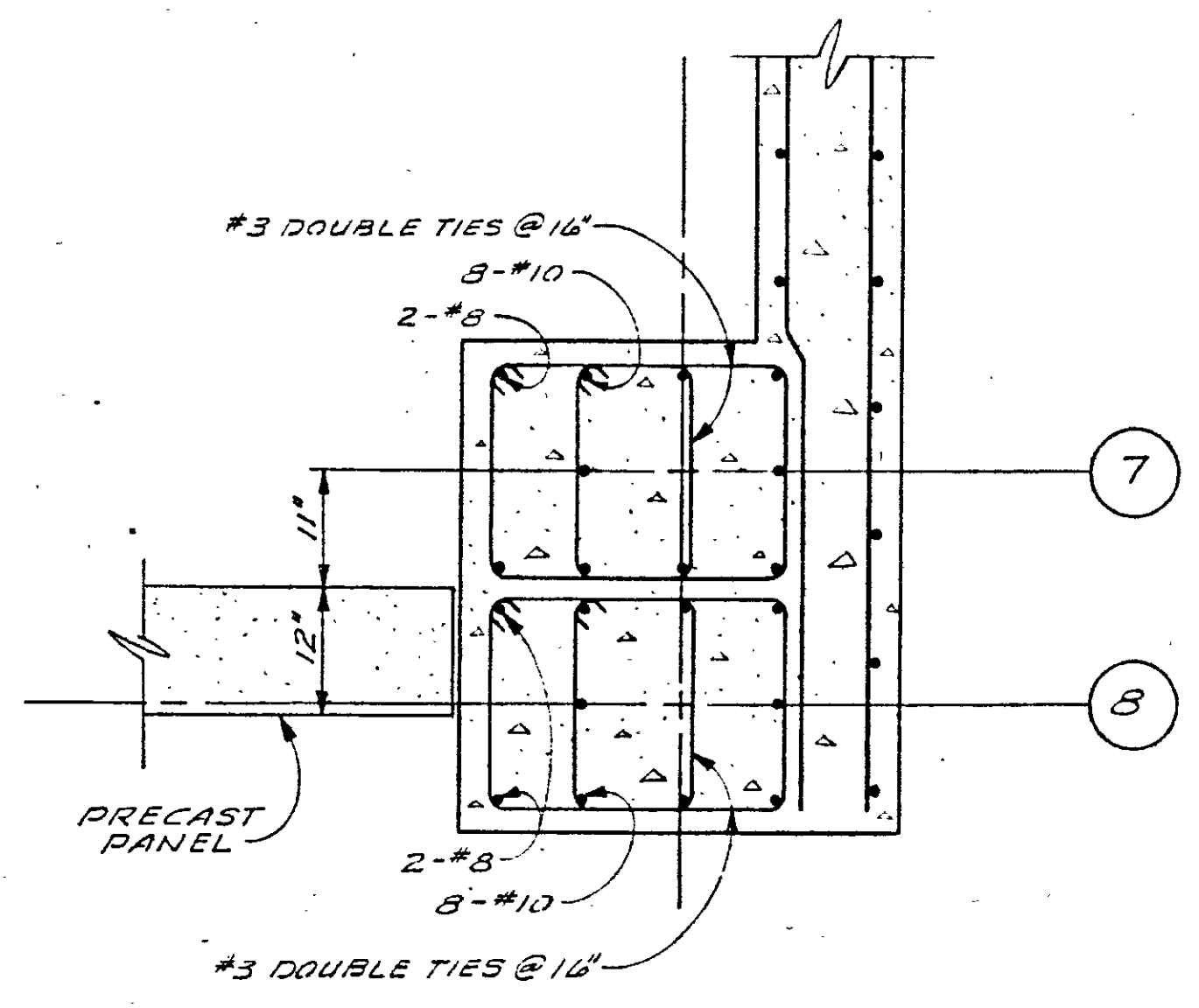
SECTION B



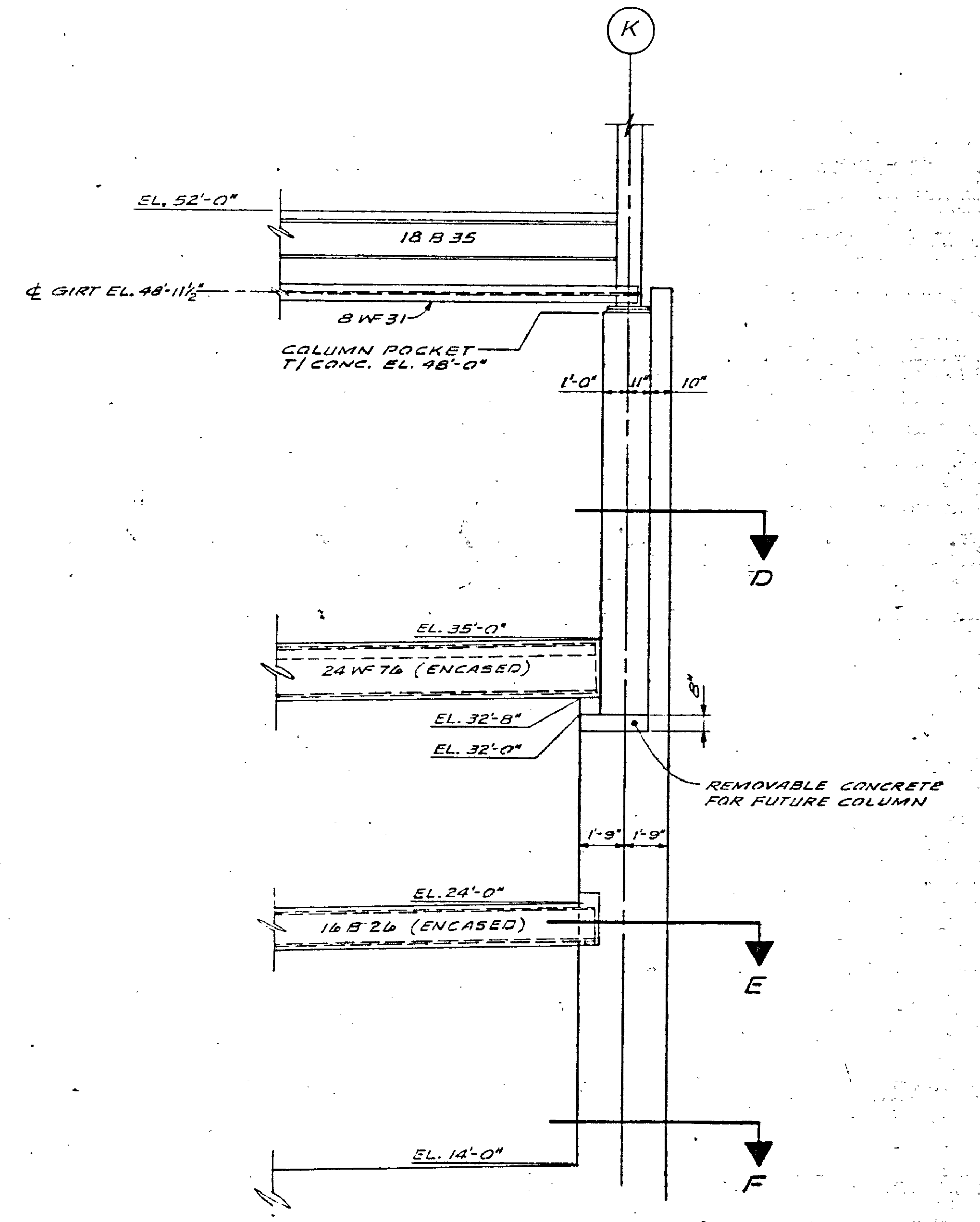
SECTION E



SECTION C
SCALE: 3/4" = 1'-0"



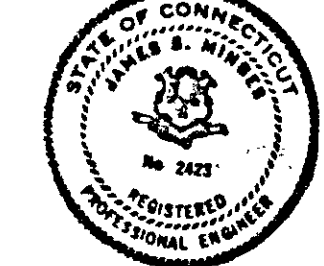
SECTION F
SCALE: 3/4" = 1'-0"



ELEVATION OF PILASTER K-7
SCALE: 1/4" = 1'-0"

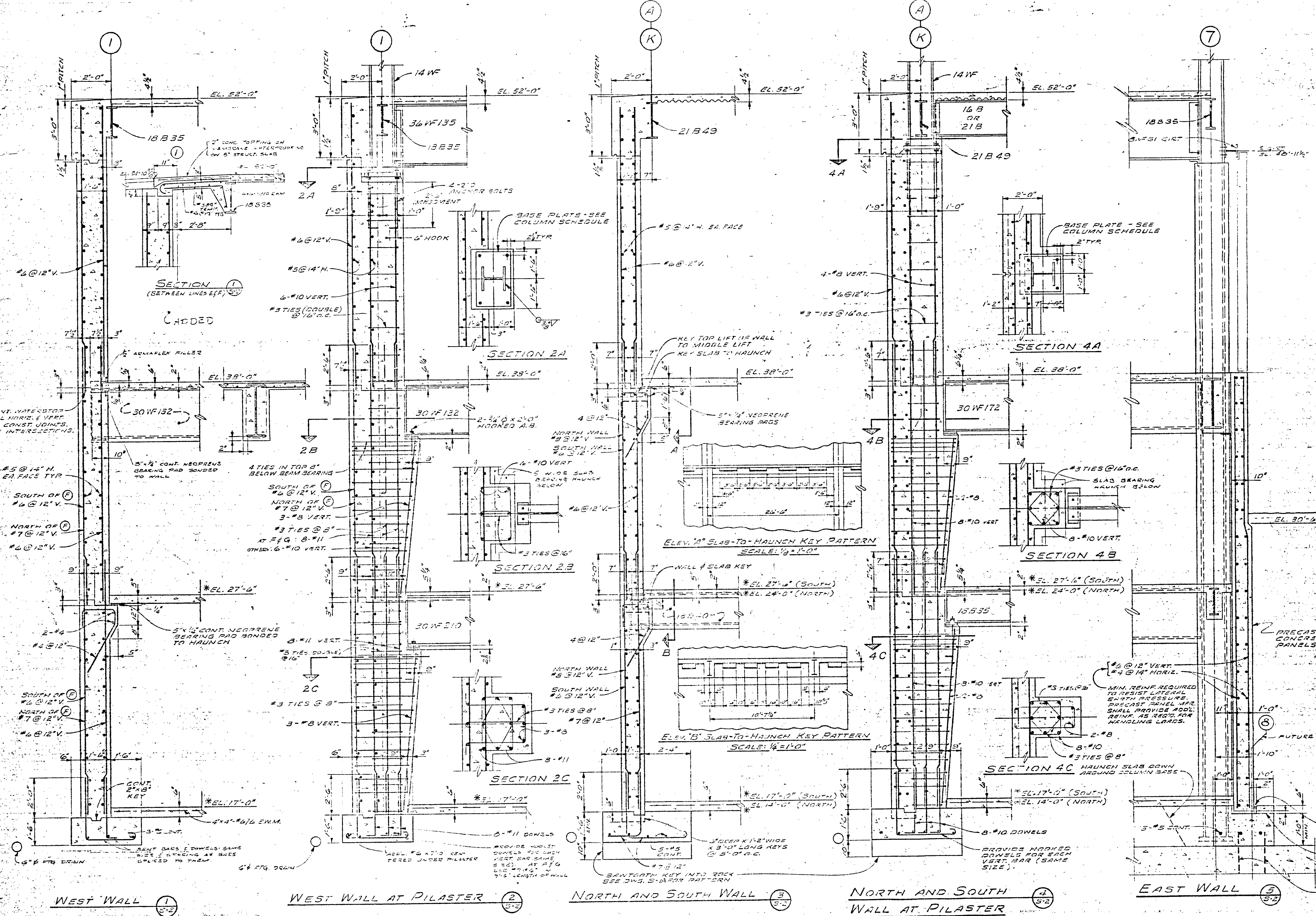
NOTE: RETAINING WALL & PRECAST PANELS NOT SHOWN.

COMM. NO. 56-39



THIS DRAWING HAS BEEN REVISED TO SHOW AS BUILT CONDITIONS DATE: 4/14/72

REV. DATE	DRAWING NO.	S-1B	FOUNDATION DETAILS
SHEET OF		HARTFORD NATIONAL BANK AND TRUST COMPANY <small>HARTFORD, CONNECTICUT</small>	
SCALE: AS NOTED	DRAWN: R.C.S.		
APPROVED: J.K.G., D.S.W.	DATE: SEPT. 19 1969	JAMES S. MINGES & ASSOCIATES ENGINEERS <small>FARMINGTON, CONNECTICUT</small>	
JOB NO. 1085			



SEE ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND DETAILS REQUIRED AS NOTED ON THESE DRAWINGS EXCEPT TO THE EXTENT OTHERWISE NOTED IN THESE NOTES AND SPECIFICATIONS.

CONCRETE SHALL BE 3000 P.S.I. COMPACTED BACKFILL.

REINFORCING STEEL SHALL BE AS NOTED ON THESE DRAWINGS EXCEPT TO THE EXTENT OTHERWISE NOTED IN THESE NOTES AND SPECIFICATIONS.

CONCRETE SHALL BE 3000 P.S.I. COMPACTED BACKFILL.

DESIGN ON MASONRY WALLS

FOOTINGS ARE TO BE CONCRETE UNLESS OTHERWISE NOTED. EXTERIOR FOUNDATION FOOTINGS SHALL BE CARRIED A MINIMUM 4" BELOW FINAL GRADE AND ALL FOOTINGS A MINIMUM OF 12" BELOW PRESENT GRADE, BUT IN SOUND GROUND IN ANY CASE.

CONCRETE BEAMS ARE CAST INDIVIDUALLY WITH SLABS AND ARE LISTED IN BEAM SCHEDULE. OPTICS ARE MEASURED FROM TOP OF SLABS TO BOTTOM OF BEAMS.

REINFORCEMENT SHALL BE PLACED WITH PROTECTION UNLESS OTHERWISE NOTED. EXTERIOR FOUNDATION FOOTINGS SHALL BE CARRIED A MINIMUM 4" BELOW FINAL GRADE AND ALL FOOTINGS A MINIMUM OF 12" BELOW PRESENT GRADE, BUT IN SOUND GROUND IN ANY CASE.

CONCRETE BEAMS ARE CAST INDIVIDUALLY WITH SLABS AND ARE LISTED IN BEAM SCHEDULE. OPTICS ARE MEASURED FROM TOP OF SLABS TO BOTTOM OF BEAMS.

REINFORCEMENT SHALL BE PLACED WITH PROTECTION UNLESS OTHERWISE NOTED. EXTERIOR FOUNDATION FOOTINGS SHALL BE CARRIED A MINIMUM 4" BELOW FINAL GRADE AND ALL FOOTINGS A MINIMUM OF 12" BELOW PRESENT GRADE, BUT IN SOUND GROUND IN ANY CASE.

CONCRETE BEAMS ARE CAST INDIVIDUALLY WITH SLABS AND ARE LISTED IN BEAM SCHEDULE. OPTICS ARE MEASURED FROM TOP OF SLABS TO BOTTOM OF BEAMS.

REINFORCEMENT SHALL BE PLACED WITH PROTECTION UNLESS OTHERWISE NOTED. EXTERIOR FOUNDATION FOOTINGS SHALL BE CARRIED A MINIMUM 4" BELOW FINAL GRADE AND ALL FOOTINGS A MINIMUM OF 12" BELOW PRESENT GRADE, BUT IN SOUND GROUND IN ANY CASE.

CONCRETE BEAMS ARE CAST INDIVIDUALLY WITH SLABS AND ARE LISTED IN BEAM SCHEDULE. OPTICS ARE MEASURED FROM TOP OF SLABS TO BOTTOM OF BEAMS.

REINFORCEMENT SHALL BE PLACED WITH PROTECTION UNLESS OTHERWISE NOTED. EXTERIOR FOUNDATION FOOTINGS SHALL BE CARRIED A MINIMUM 4" BELOW FINAL GRADE AND ALL FOOTINGS A MINIMUM OF 12" BELOW PRESENT GRADE, BUT IN SOUND GROUND IN ANY CASE.

CONCRETE BEAMS ARE CAST INDIVIDUALLY WITH SLABS AND ARE LISTED IN BEAM SCHEDULE. OPTICS ARE MEASURED FROM TOP OF SLABS TO BOTTOM OF BEAMS.

REINFORCEMENT SHALL BE PLACED WITH PROTECTION UNLESS OTHERWISE NOTED. EXTERIOR FOUNDATION FOOTINGS SHALL BE CARRIED A MINIMUM 4" BELOW FINAL GRADE AND ALL FOOTINGS A MINIMUM OF 12" BELOW PRESENT GRADE, BUT IN SOUND GROUND IN ANY CASE.

FOUNDATION WALL SECTIONS
SCALE: 1/2" = 1'-0"

* NOTE: FLOOR ELEVATIONS ON PARKING LEVELS VARY DUE TO PITCHING AND RAMPING. SEE PLANS FOR ELEVATIONS.

REV.	DATE	DESCRIPTION
1	11-24-69	ADDED INFORMATION TO SEC. 1, 3, 2
2	9-10-69	SEC. 3 CHANGE ELEV. TO 24'-0". SEC. 5: ADD FUTURE COL. LINE (8) & ANCHOR BOLTS. ADD DIMENSIONS.
3	8-8-69	REVISED TOP OF NORTH, SOUTH & WEST FOUNDATION WALLS.
4	7-16-69	REISSUED FOR REINFORCING STEEL BIDDING.
5	6-17-69	REISSUED FOR STRUCTURAL STEEL BIDDING.
6	6-10-69	ELIMINATE CHAIRS FOOTINGS IF WALLS REDUCE WIDTH OF WEST WALL FOOTING & INCREASE 1/2" THICKNESS.

FOUNDATION DETAILS
OPERATIONS CENTER

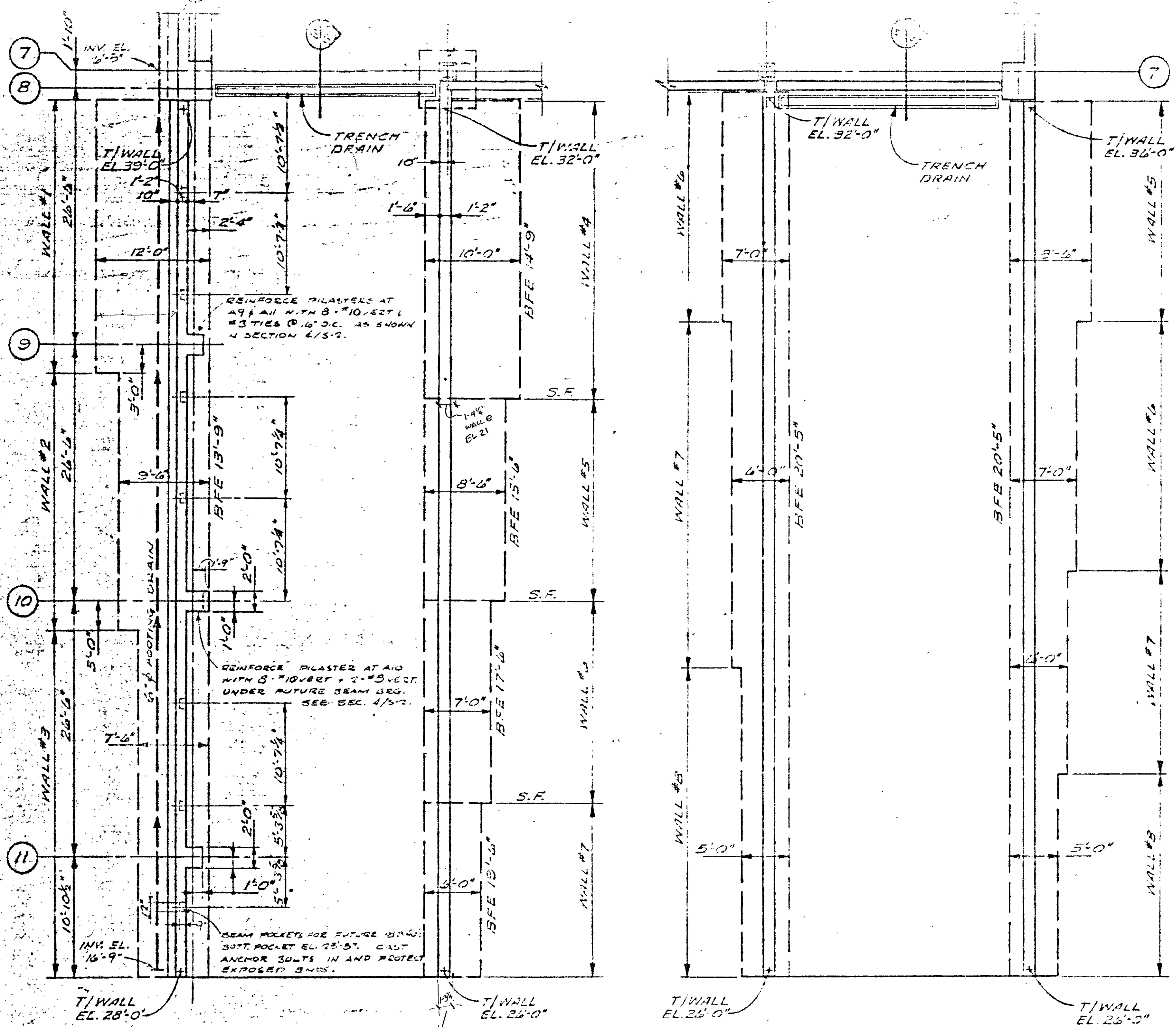
HARTFORD NATIONAL BANK AND TRUST COMPANY

CHARLES DU BOSE, F.A.A. ARCHITECT
45 WOODLAND STREET, HARTFORD, CONNECTICUT

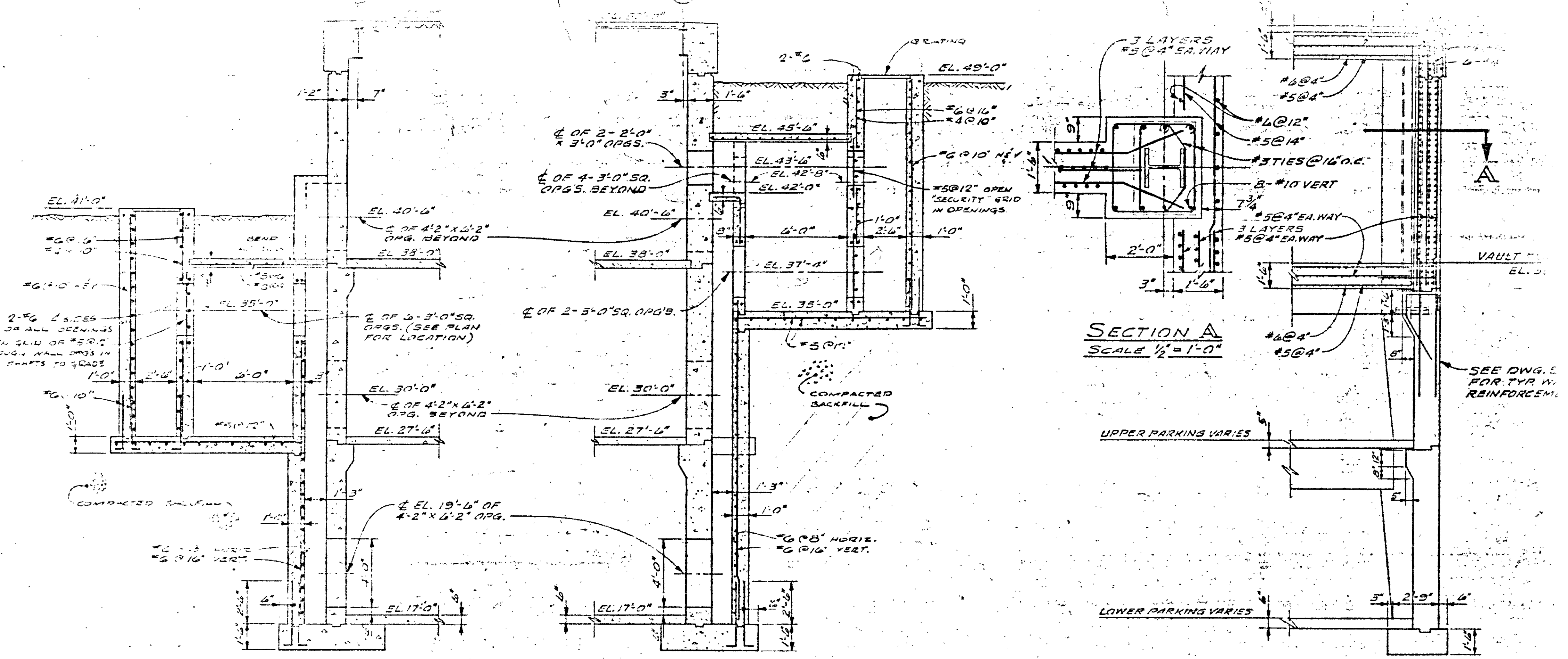
JAMES S. MINGES & ASSOCIATES, ENGINEERS
CANTON, CONNECTICUT

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DATE: 2/18/1961

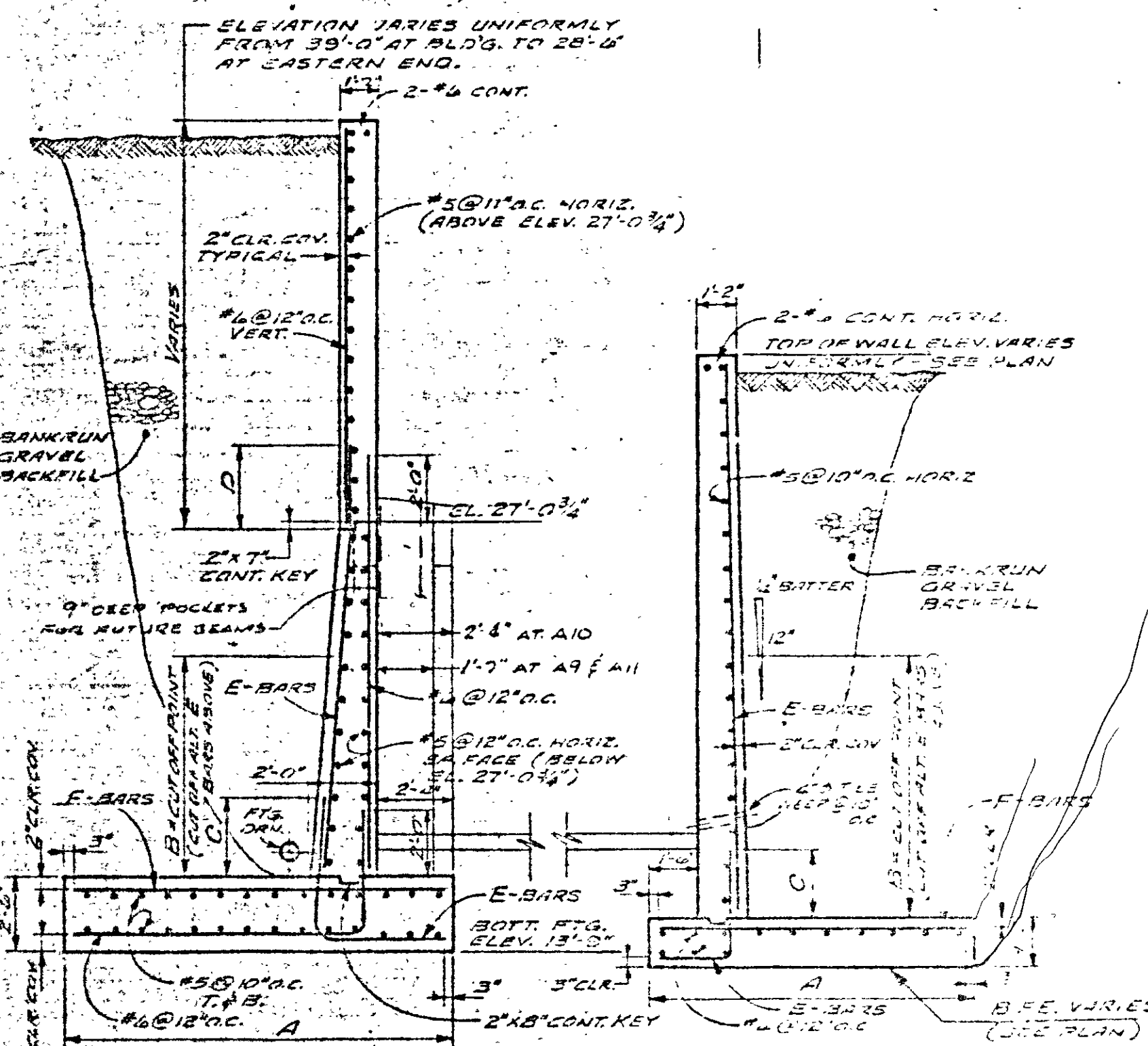




SOUTH RAMP
NORTH RAMP
RAMP RETAINING WALLS
SCALE: 1/4"=1'-0"

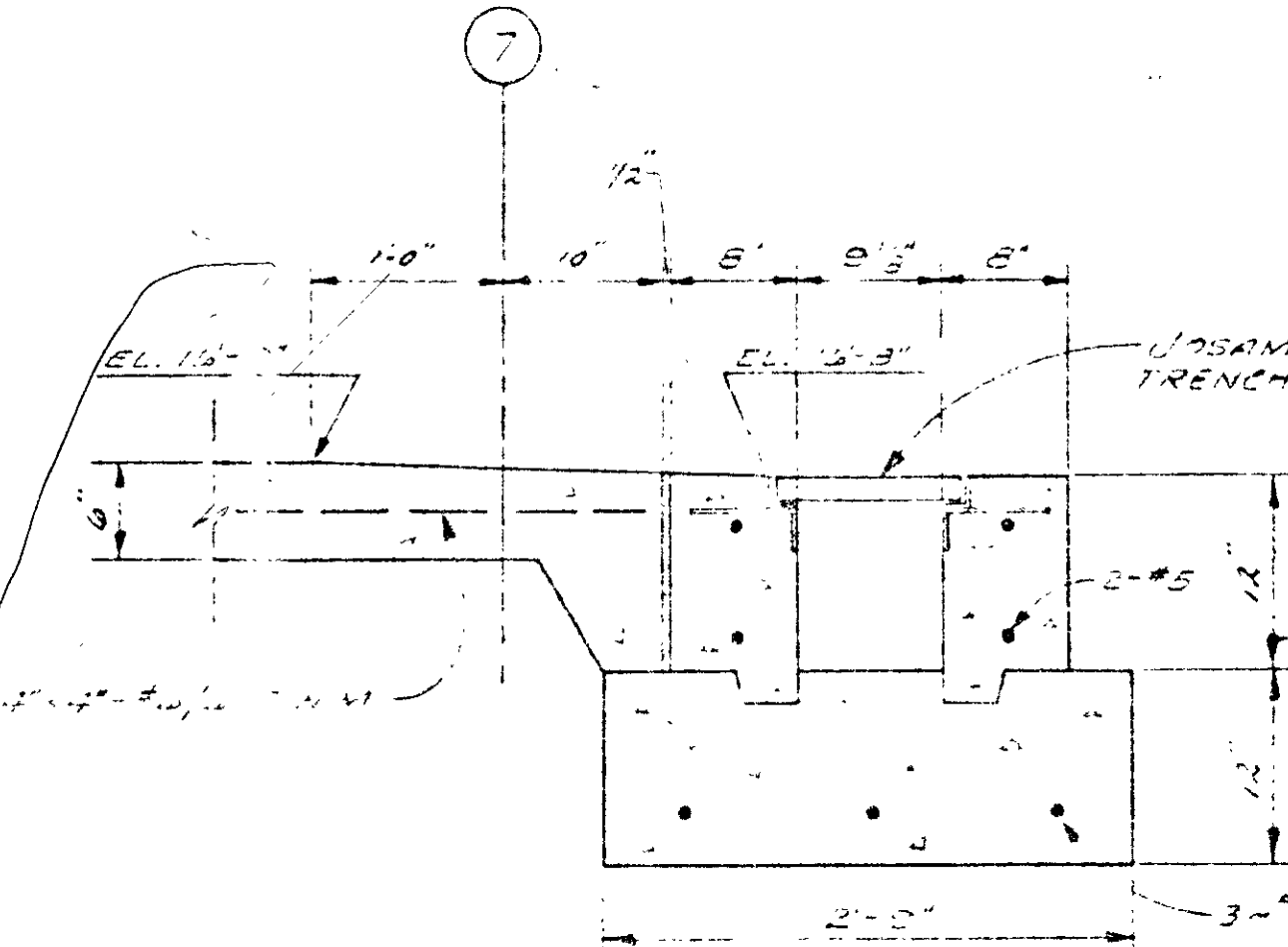


SECTION 1 SCALE: 1/4"=1'-0"
SECTION 2 SCALE: 1/4"=1'-0"
SECTION 3 SCALE: 1/4"=1'-0"

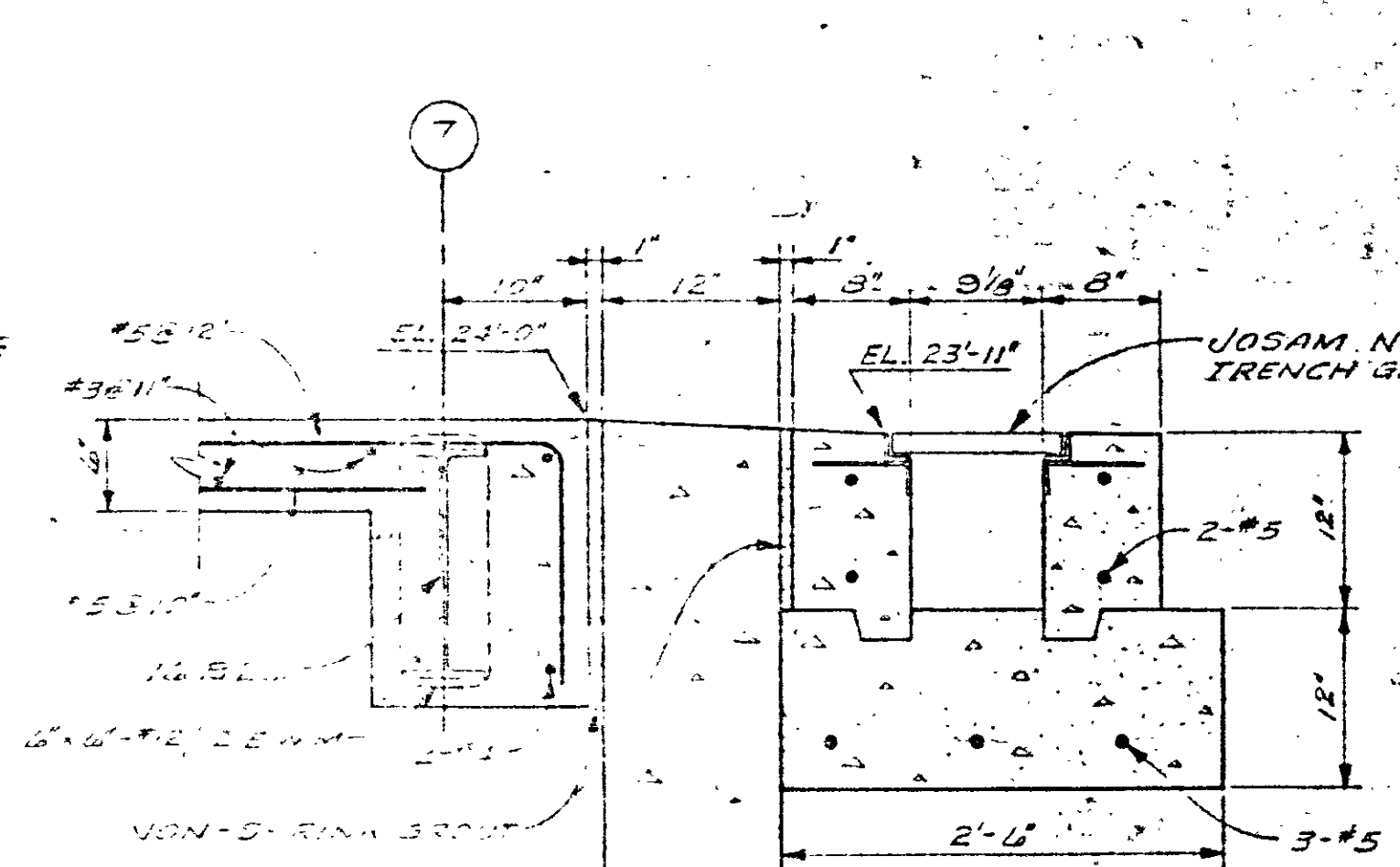


RETAINING WALL DETAILS
SCALE: 1/2"=1'-0"

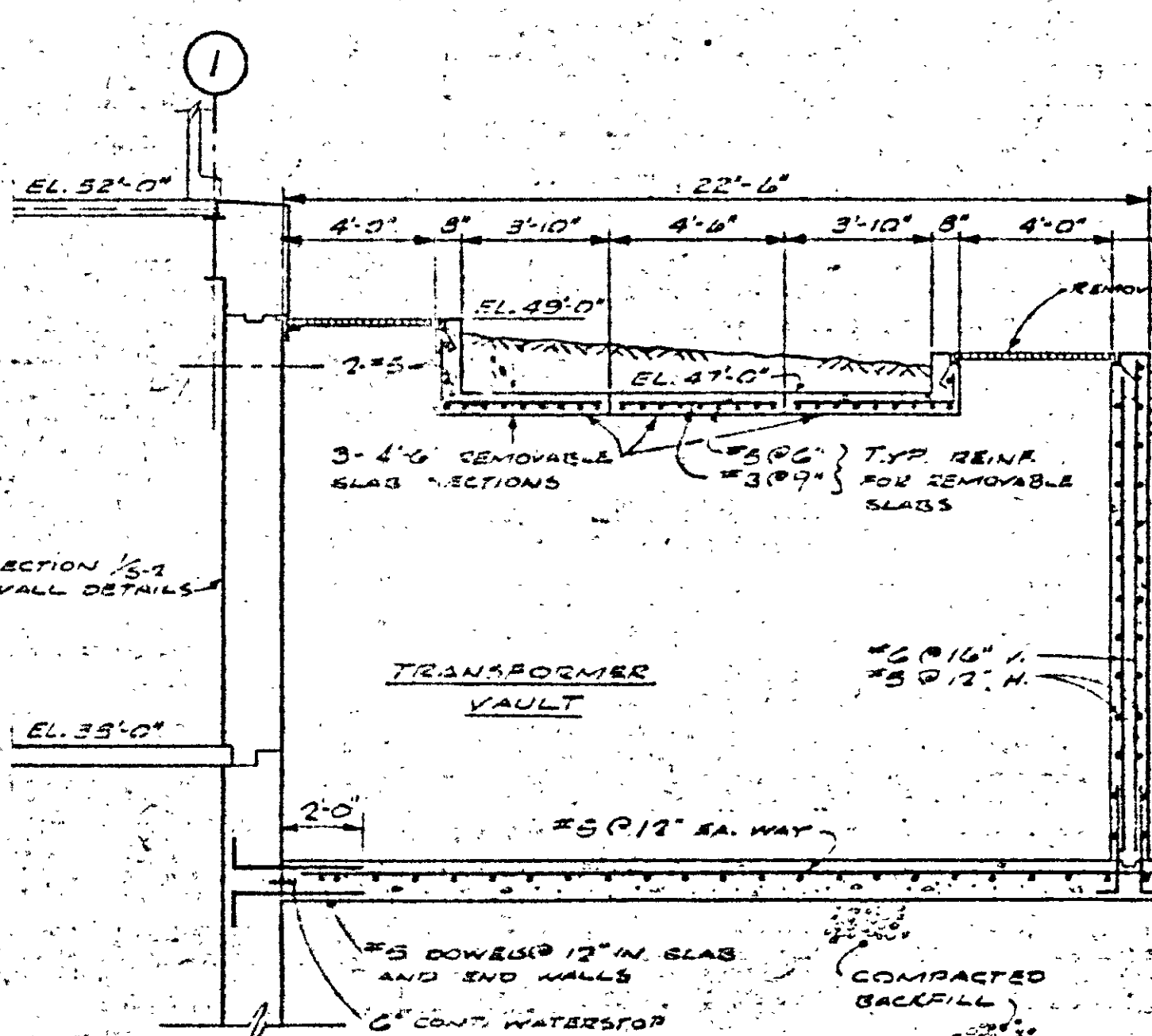
WALL NO.	A	B	C	D	E-BARS	F-BARS	REMARKS
1	18'-0"	7'-0"	2'-0"	2'-0"	#5@12"OC	#5@12"OC	
2	3'-0"	7'-0"	2'-3"	1'-11"	#5@12"OC	#5@12"OC	
3	7'-0"	—	2'-3"	1'-11"	#5@12"OC	#5@12"OC	
4	10'-0"	9'-0"	2'-3"	—	#5@12"OC	#5@12"OC	
5	3'-0"	1'-0"	2'-3"	—	#5@12"OC	#5@12"OC	
6	7'-0"	5'-0"	1'-11"	—	#5@12"OC	#5@12"OC	
7	6'-0"	1'-0"	1'-7"	—	#5@12"OC	#5@12"OC	DO NOT CUT OFF ANY REINFORCING
8	5'-0"	1'-0"	1'-7"	—	#5@12"OC	#5@12"OC	WALL #8 CAN BE CONSTRUCTED AT 2'-0"



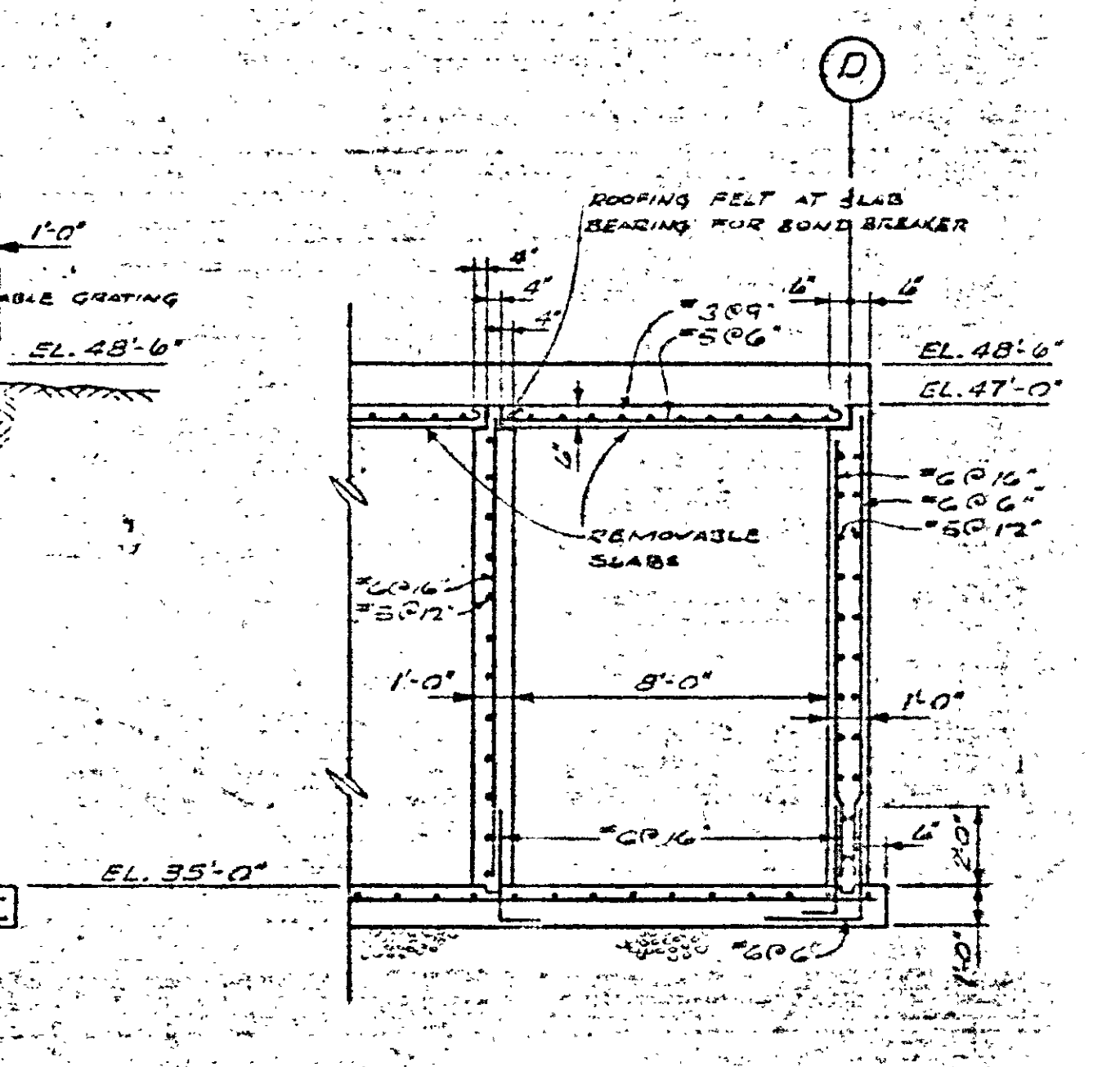
SECTION 4
SCALE: 1/2"=1'-0"



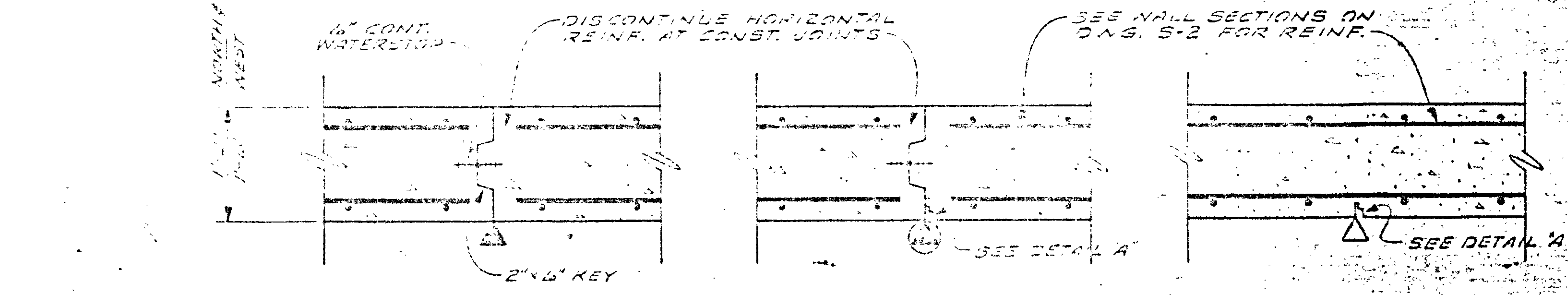
SECTION 5
SCALE: 1/2"=1'-0"



SECTION 6
SCALE: 1/4"=1'-0"

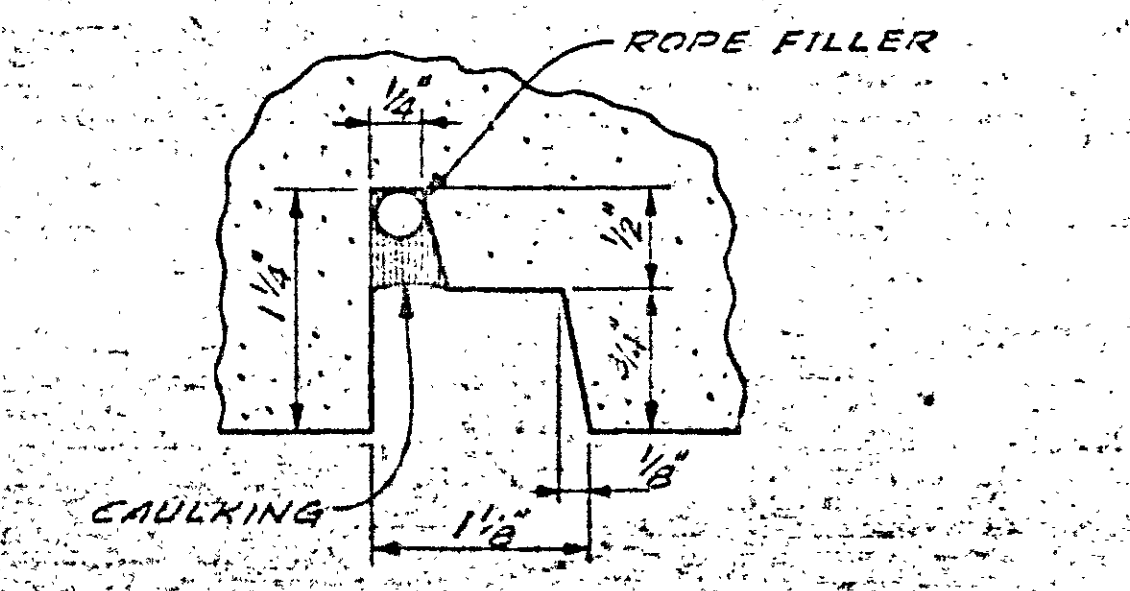


SECTION 7
SCALE: 1/4"=1'-0"



CONSTRUCTION JOINT
CONTROL JOINT

FOUNDATION WALL JOINT DETAILS
SCALE: 1/2"=1'-0"
SEE DWGS. 5-1, 5-4, 5-5 & 5-6 FOR JOINT LOCATIONS



DETAIL A
FULL SIZE

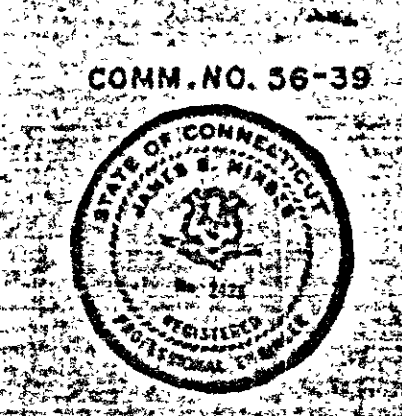
2-13-70	CHANGED ELEV. & DIMENSION AT WALL #3.
12-3-69	CHANGED LOUVER OPENINGS TO 6'-2" W. X 4'-2" H.
11-11-69	REVISED SEC. 5/1-3 TO SHOW CULVERT FOOTING EXTENDING DOWN TO SERVICE LEVEL.
11-3-69	CHANGED ELEV. TO 48'-0" ON SEC. 3 & 4/1-3. ADDED END DIMENSION ON WALL #3.
9-10-69	ADDED TRENCH DRAINS & DETAILS & 7. ADDED 2" OF OPENING ELEVATIONS TO SEC. 1/1-2.
8-8-69	REVISED TOP OF NORTH, SOUTH & WEST FOUNDATION WALLS.
7-12-69	REVISED & REISSUED FOR REINFORCING STEEL BIDDING.
6-17-69	REISSUED FOR STRUCTURAL STEEL BIDDING.
6-10-69	REDUCE WEST FOUNDATION WALL FOOTING, SLABbing WALL BARRIS FOOTINGS.

REV. DATE
DRAWING NO. **S-3**
SCALE: AS NOTED
DATE: MAY 5, 1969
JOB NO. 1045

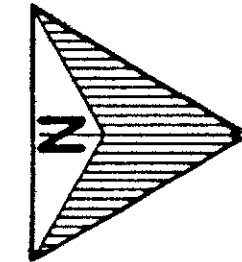
FOUNDATION DETAILS
OPERATIONS CENTER

HARTFORD NATIONAL BANK AND TRUST COMPANY
HARTFORD, CONNECTICUT

CHARLES DU BOSE, FAIA ARCHITECT
49 WOODLAND STREET, HARTFORD, CONNECTICUT
JAMES S. MINGES & ASSOCIATES, ENGINEERS
HARTFORD, CONNECTICUT

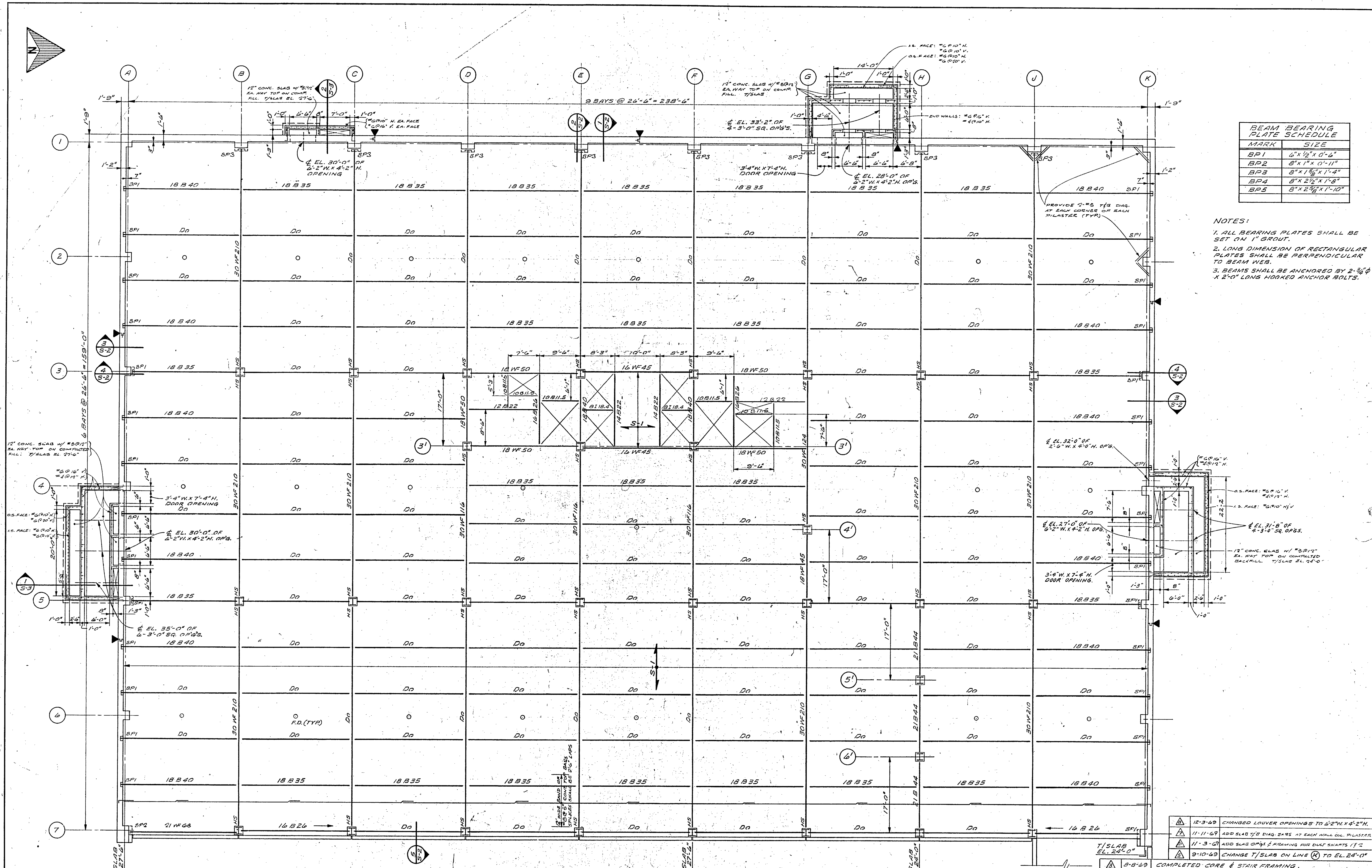


THIS DRAWING HAS BEEN REVISED APPROVED FOR AS BUILT CONDITIONS DATE: MAY 5, 1969



BEAM BEARING PLATE SCHEDULE	
MARK	SIZE
BP1	6" x 1/2" x 0'-6"
BP2	8" x 1" x 0'-11"
BP3	8" x 1 1/2" x 1'-4"
BP4	8" x 2 1/2" x 1'-8"
BP5	8" x 2 3/8" x 1'-10"

- NOTES:
- ALL BEARING PLATES SHALL BE SET ON 1" GROUT.
 - LONG DIMENSION OF RECTANGULAR PLATES SHALL BE PERPENDICULAR TO BEAM WEB.
 - BEAMS SHALL BE ANCHORED BY 2-3/8" x 2'-0" LONG HOOKED ANCHOR BOLTS.



- NOTES:
- H.S. INDICATES CONNECTIONS IN WHICH A-325 BOLTS ARE USED. NUMBER OF ROWS REQUIRED IS DETERMINED BY BEAM DEPTH. SEE SPECIFICATIONS.
 - CONSTRUCTION JOINTS THROUGH STRUCTURAL SLABS AT ALL ELEVATIONS UP TO AND INCLUDING ELEVATION 52'-0" WILL BE REQUIRED TO HAVE A SPECIAL ALTERNATING OFFSET PATTERN IN PLAN. THIS PATTERN AND THE LOCATION OF ALL CONSTRUCTION JOINTS THROUGH ALL STRUCTURAL SLABS SHALL BE REVIEWED WITH THE ENGINEER, AND HIS APPROVAL OBTAINED BEFORE CONSTRUCTION OF THESE SLABS.
 - FLOOR SLAB IS 5" THICK NORMAL WEIGHT CONCRETE. SEE SLAB SCHEDULE, DWG. S-5. TOP OF SLAB ELEVATIONS AS SHOWN ON PLAN.
 - ALL BEAMS ARE ENCASED IN CONCRETE WITH TOP OF BEAM 2" BELOW TOP OF SLAB.

PARKING LEVEL FRAMING PLAN ~ EL. 27'-6"
SCALE: 1/8" = 1'-0"

LIVE LOAD: 50 PSF OR 2K CONCENTRATED ON 2.5' SQ ANYWHERE ON FLOOR.

12-3-69	CHANGED LOUVER OPENINGS TO 6'-2" X 4'-2" H.
11-11-69	ADD SLAB T/SLAB DIAG. BARS AT EACH WALL CORNER PLASTER.
11-3-69	ADD SLAB OPQS & FRAMING FOR DUCT SHAKTS 17'-2
9-10-69	CHANGE T/SLAB ON LINE (K) TO EL. 24'-0"

REV.	DATE	DESCRIPTION
1	8-8-69	COMPLETED CORE & STAIR FRAMING.
2	7-16-69	REVISED & REISSUED FOR REINFORCING STEEL BIDDING.
3	6-17-69	ADDED HIGH STRENGTH BOLTS (H.S.)

DRAWING NO. **S-4**

PARKING LEVEL FRAMING PLAN
EL. 27'-6"
OPERATIONS CENTER

HARTFORD NATIONAL BANK AND TRUST COMPANY
HARTFORD, CONNECTICUT

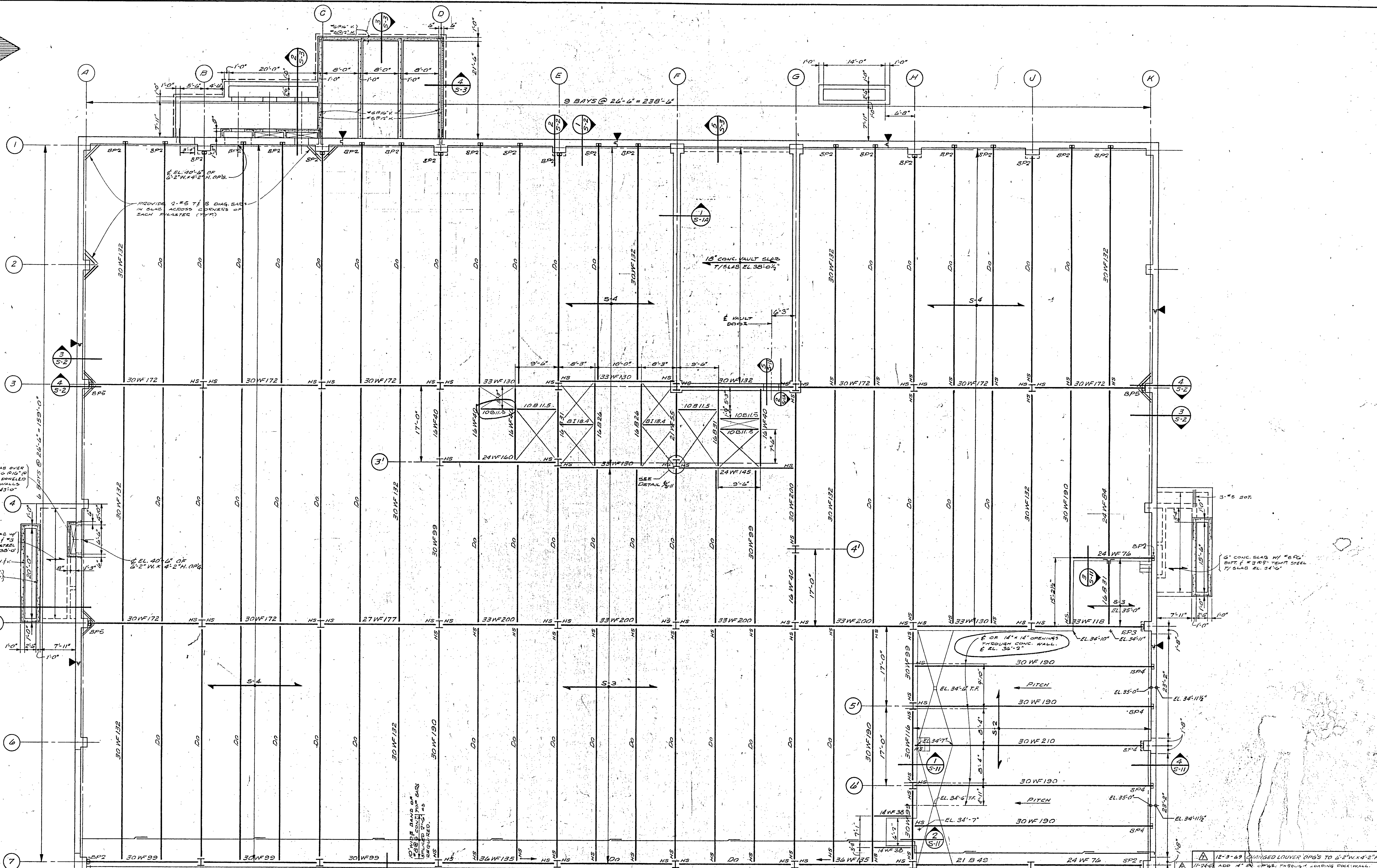
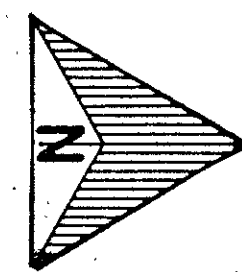
CHARLES DU BOSE FAIA ARCHITECT
49 WOODLAND STREET HARTFORD, CONNECTICUT

JAMES S. MINGES & ASSOCIATES ENGINEERS
FARMINGTON, CONNECTICUT

SCALE: AS NOTED
DRAWN: R.S.
APPROVED: J.G., D.W.
DATE: MAY 5, 1969
JOB NO.: 1085

COMM. NO. 56-39





SOLID CONCRETE SLAB SCHEDULE						
FLOOR	MARK	AREA	THICKNESS	REINFORCEMENT	DIAGRAM	REMARKS
PARKING EL. 27'-6"	S-1	ALL	5"	MAIN STEEL #5 @ 18" BOTTOM #5 @ 12" TOP OVER SUPPORTS	#3 @ 11"	
	S-2	TRUCK DOCK	8"	#5 @ 12" T. & B. CONT.	#5 @ 6"	
SERVICE LEVEL	S-3	LOADING PLATFORM & STOCKING REMAINING AREAS (EXC. VAULT)	8"	#5 @ 12" T. & B.	#3 @ 7"	AREA BOUNDED BY 21, 24 & 27
	S-4		6"	#5 @ 12" T. & B.	#3 @ 9"	

SLAB NOTES:

- CONCRETE FOR SOLID CONCRETE SLABS SHALL BE NORMAL WEIGHT 3000 PSI CONCRETE, AND SHALL BE PLACED MONOLITHICALLY WITH BEAM ENCASUREMENT.
- ALL MAIN TOP BARS SHALL HAVE 1/4" COVER, BOTTOM BARS SHALL HAVE 3/4" COVER. PROVIDE #5 X 6'-0" @ 12" OVER ALL GIRDERS.
- SEE GENERAL NOTES, SECTIONS, AND DETAILS FOR SUPPLEMENTAL INFORMATION.

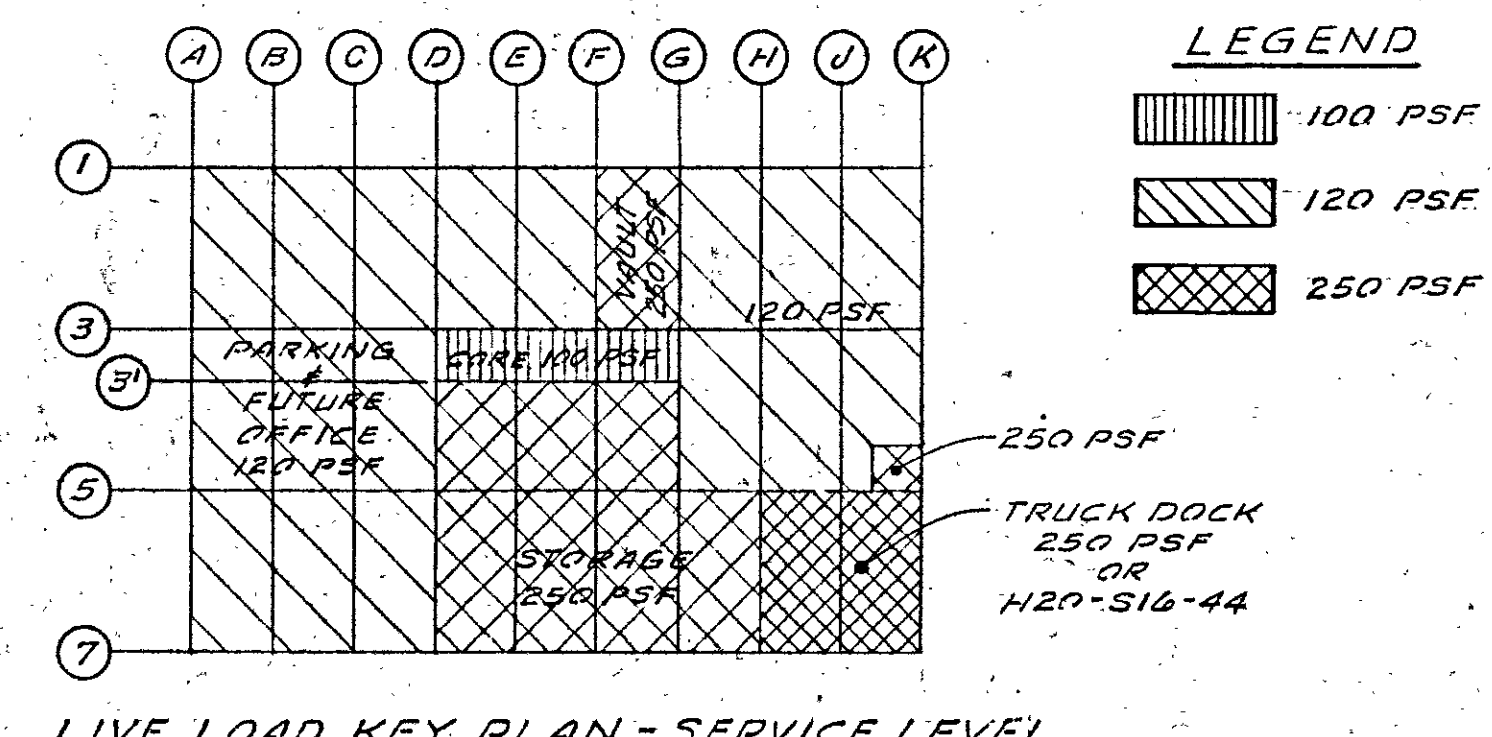
ALL CONCRETE SLABS THROUGHOUT THIS LEVEL WITH THE EXCEPTION OF THE TRUCK DOCK AREA (APPROX. 4200') SHALL BE FORMED WITH PERMANENTLY ATTACHED INSULATING 3" THICK STRUCTO-FORM, FURNISHED AS MANUFACTURED BY THE PLINKOTE COMPANY OF RICHMOND, VIRGINIA. SPECIAL ANCHORAGE CLIPS AND COMPLETE ERECTION PROCEDURE SHALL BE IN STRICT ACCORD WITH MANUFACTURERS RECOMMENDATIONS.

SERVICE FLOOR FRAMING PLAN

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

NOTES:

- H.S. INDICATES HIGH STRENGTH BOLTS. SEE NOTE NO. 1 ON SHEET S-4.
- T/SLAB EL. 35'-0" EXCEPT WHERE INDICATED.
- TOP OF ALL BEAMS IS 2" BELOW TOP OF SLAB EXCEPT AS SHOWN IN DETAILS.



11-3-67	REMOVE STAIRS NEAR J.B. ADD EX. DEVELOP. DRAWING. ADD CONCRETE STAIRS WEST OF 21B, 24B, 27B. ADD 1/2" SHIRT BY 1'-10" DIA.
8-8-69	COMPLETED CORE & STA. FRAMING.
7-16-69	REVISED & REISSUED FOR REWORKING STEEL BIDDING.
6-17-69	ADDED HIGH STRENGTH BOLTS (H.S.).

DRAWING NO. **S-5**

SERVICE FLOOR FRAMING PLAN

OPERATIONS CENTER

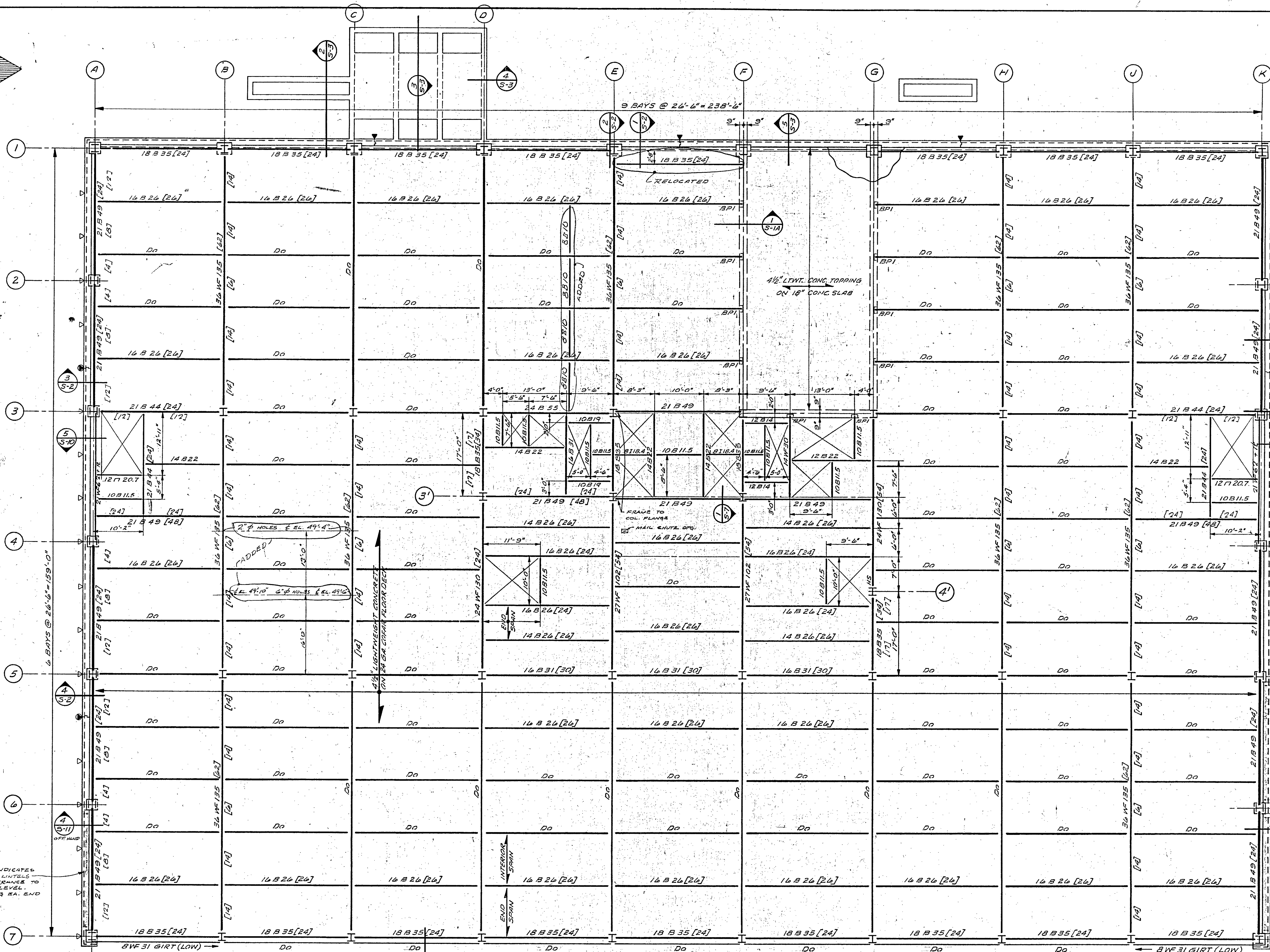
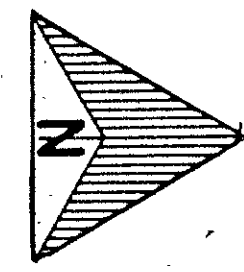
HARTFORD NATIONAL BANK AND TRUST COMPANY
HARTFORD, CONNECTICUT

CHARLES DU BOSE FAIA ARCHITECT
49 WOODLAND STREET HARTFORD, CONNECTICUT

JAMES S. MINGES & ASSOCIATES ENGINEERS
FARMINGTON, CONNECTICUT

DATE: MAY 5, 1969
JOB NO. 1085





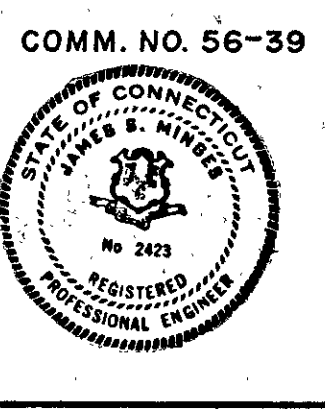
COFAR SLAB SCHEDULE				
FLOOR	THICKNESS	SPAN	T-WIRES TYPE & SPACING	TOP REINFORCEMENT CONTINUOUS END DISCONTINUOUS END
MAIN, 2ND, 3RD & 4TH	4 1/2"	INTERIOR	B (7" O.C.)	#4x5'3"@6" O.C.
		END	D (5" O.C.)	#4x5'3"@6" O.C.
PENTHOUSE	6"	INTERIOR	A (8" O.C.)	#4x4'6"@8" O.C.
		END	B (7" O.C.)	#4x3'0"@6" O.C.
ROOF TOP STAIR AREA	5"	ALL SPANS	B (7" O.C.)	#4x4'6"@8" O.C.

MAIN FLOOR FRAMING PLAN

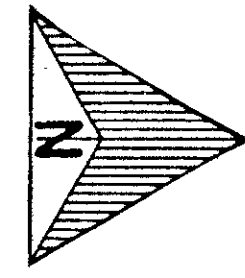
LIVE LOAD: 100 PSF
 SCALE: 1/8" = 1'-0"
 T/SLAB ELEVATION 52'-0"
 T/STEEL IS: -4 1/2" FROM T/SLAB

- NOTES:**
1. H.S. INDICATES HIGH STRENGTH BOLTS. SEE NOTE #1 ON SHEET S-4.
 2. NUMBERS IN BRACKETS [26] FOLLOWING THE BEAM SIZE INDICATE THE TOTAL NUMBER OF BRANCO ARCH SHEAR CONNECTORS REQUIRED. ON MOST MEMBERS THE SPACING SHALL BE AS UNIFORM AS POSSIBLE. ON CERTAIN GIRDERS THE DISTRIBUTION SHALL BE AS SHOWN IN THE SPACES BETWEEN BEAMS. IN CERTAIN AREAS OF MAIN, 2ND, 3RD AND 4TH FLOORS, WHERE HEADER DUCTS FURNISHED BY ELECTRICAL CONTRACTOR RUN BETWEEN AND PARALLEL TO CEL-WAY, EXACT LOCATION OF ARCH SHEAR CONNECTORS ON BEAMS CROSSED BY SUCH HEADER DUCTS SHALL BE COORDINATED CLOSELY WITH ELECTRICAL CONTRACTOR. ANY SHIFTING OF ARCH SHEAR CONNECTORS FROM NORMAL UNIFORM SPACING BECAUSE OF DUCTS, SHALL BE DONE IN DIRECTION TOWARD NEAREST END OF THAT BEAM.
 3. Δ INDICATES CONTROL JOINT
 \circ INDICATES CONSTRUCTION JOINT. SEE DWG. S-3 FOR JOINT DETAILS.

- SLAB NOTES:**
1. SLAB CONSTRUCTION IS LIGHTWEIGHT CONCRETE ON 24 GA. COFAR FLOOR DECK, OVERALL THICKNESS AS SCHEDULED.
 2. T-WIRES ARE NO. 4 GA. DEFORMED STEEL WIRES WELDED TO COFAR.
 3. TOP BARS AT DISCONTINUOUS ENDS SHALL BE HOOKED 180°.
 4. CEL-WAY UNDERFLOOR ELECTRICAL DUCT SHALL BE PROVIDED IN MAIN, 2ND, 3RD & 4TH FLOOR SLAB. SEE DWG. S-7 & ELECTRICAL DRAWINGS FOR LAYOUT.
 5. A CONTINUOUS 2" WIDE STRIP OF 6x6-10/10 EWM SHALL BE PLACED OVER ALL CEL-WAY & HEADER DUCT.



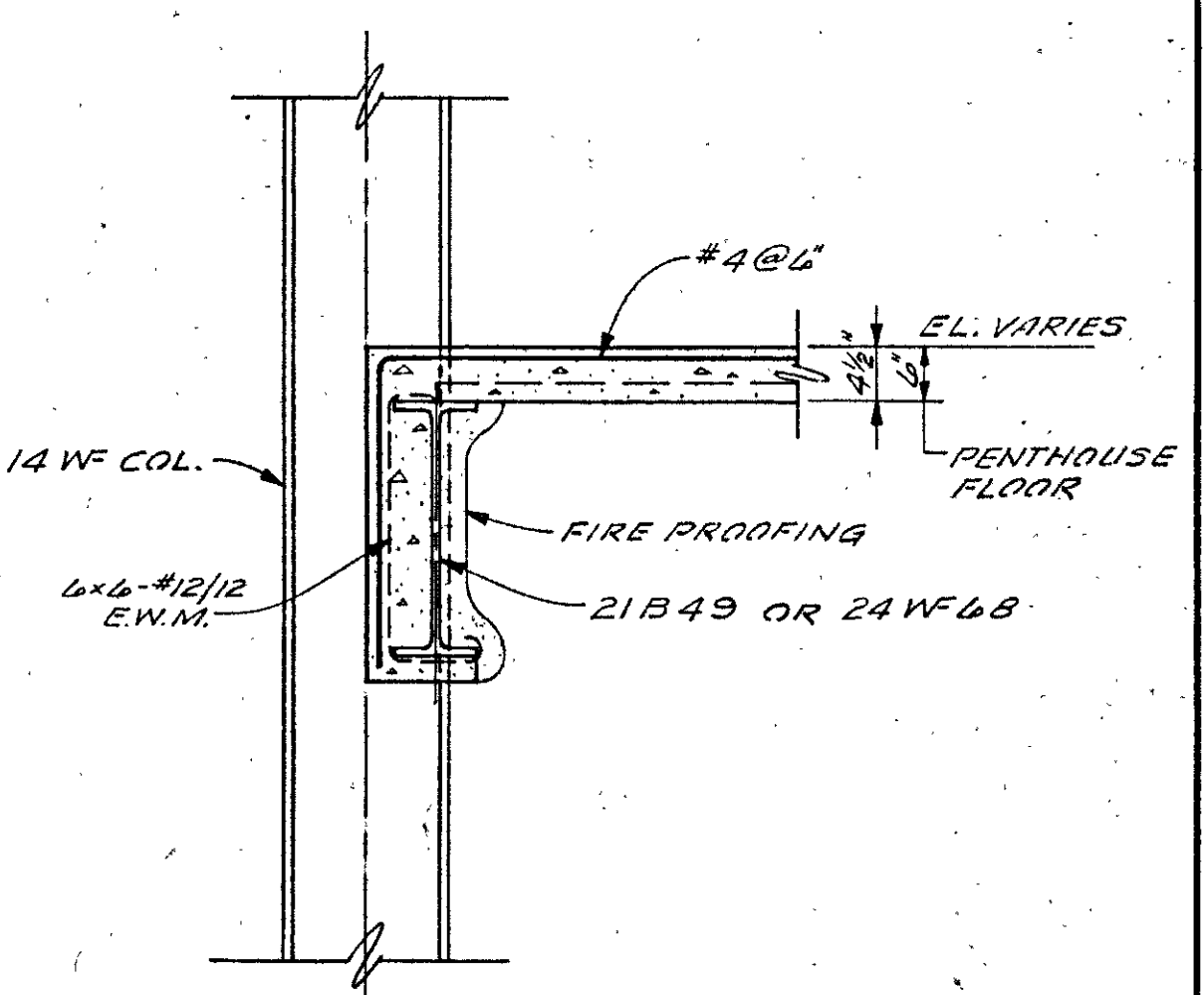
9-10-69	CHANGED HOLES IN 3 GIRDERS. ADDED 2 CONTROL JOINTS BETWEEN 21 B 49 & 10 B 15. SEE NOTE 2. RELOCATED BEAMS BETWEEN 21 B 49 & 10 B 15.
8-8-69	COMPLETED CORE & STAIR FRAMING.
7-16-69	REISSUED FOR REINFORCING STEEL BIDDING
7-7-69	REISSUED FOR FLOOR DECK BIDDING
6-17-69	ADDED HIGH STRENGTH BOLTS (H.S.) & ADDED 8 WF 31 GIRTS AT EAST WALL.
REV. DATE	
DRAWING NO.	
S-6 MAIN FLOOR FRAMING PLAN	
OPERATIONS CENTER	
HARTFORD NATIONAL BANK AND TRUST COMPANY	
HARTFORD, CONNECTICUT	
CHARLES DU BOSE FAIA ARCHITECT	
49 WOODLAND STREET HARTFORD, CONNECTICUT	
DATE: MAY 5, 1969	
JOB NO. 1085	
JAMES S. MINGES & ASSOCIATES—ENGINEERS FARMINGTON, CONNECTICUT	



CEL-WAY UNDERFLOOR ELECTRICAL DUCTS @ 5'-3 3/4" O.C. SEE SPECIFICATION DIVISION 3. PATTERN SHOWN IS TYPICAL FOR MAIN FLOOR, 2ND, 3RD AND 4TH FLOORS. SEE ELECTRICAL POWER DRAWINGS FOR COMPLETE FLOOR PLANS.

1/2" x 6" HEADER DUCT (BY ELECTRICAL CONTRACTOR)

27WF102 W/1/8" NORTH AND SOUTH WALLS ON SECOND FLOOR STAIR OPENINGS SHALL FRAME TO INSIDE OF COLUMN FLANGES.



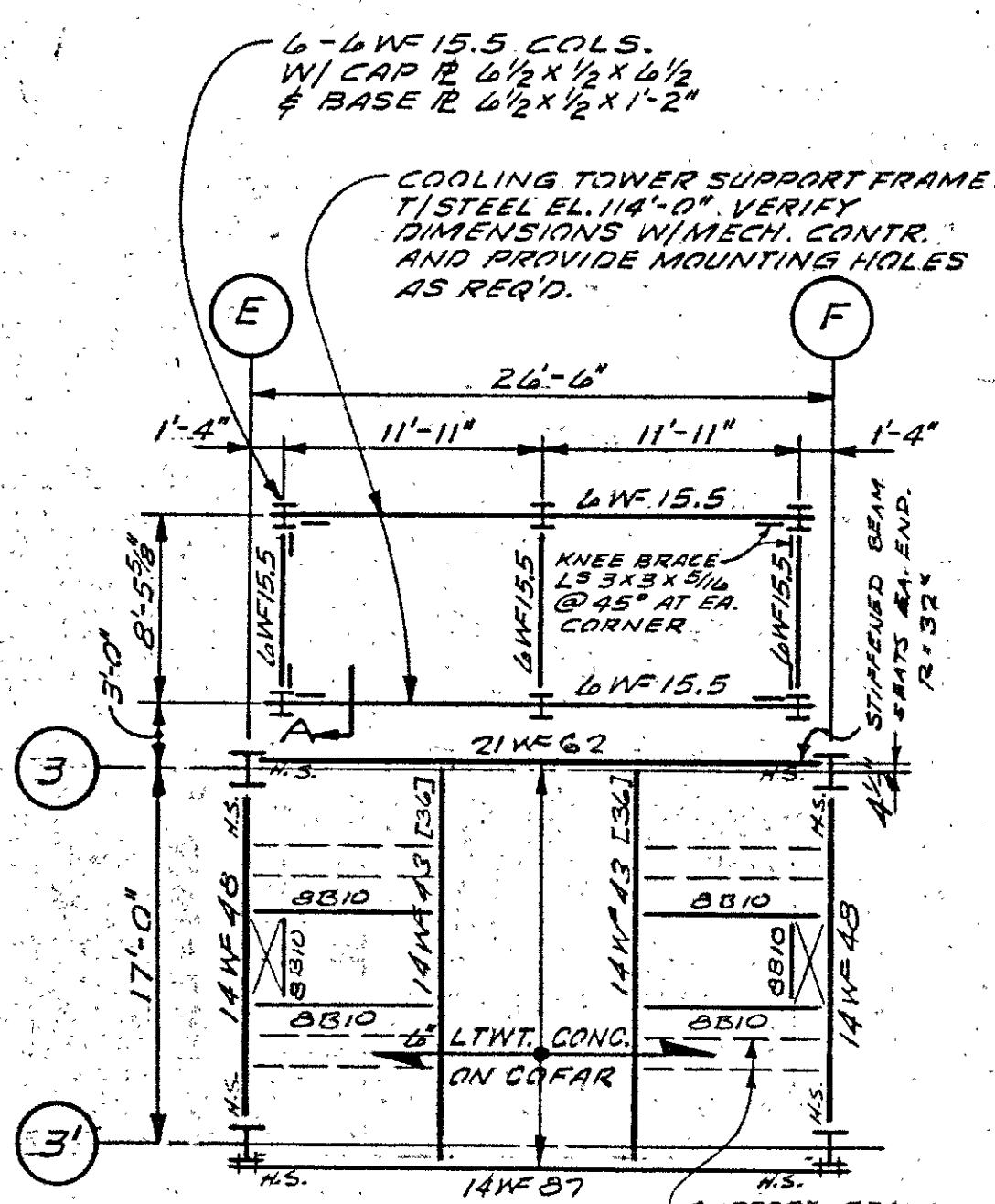
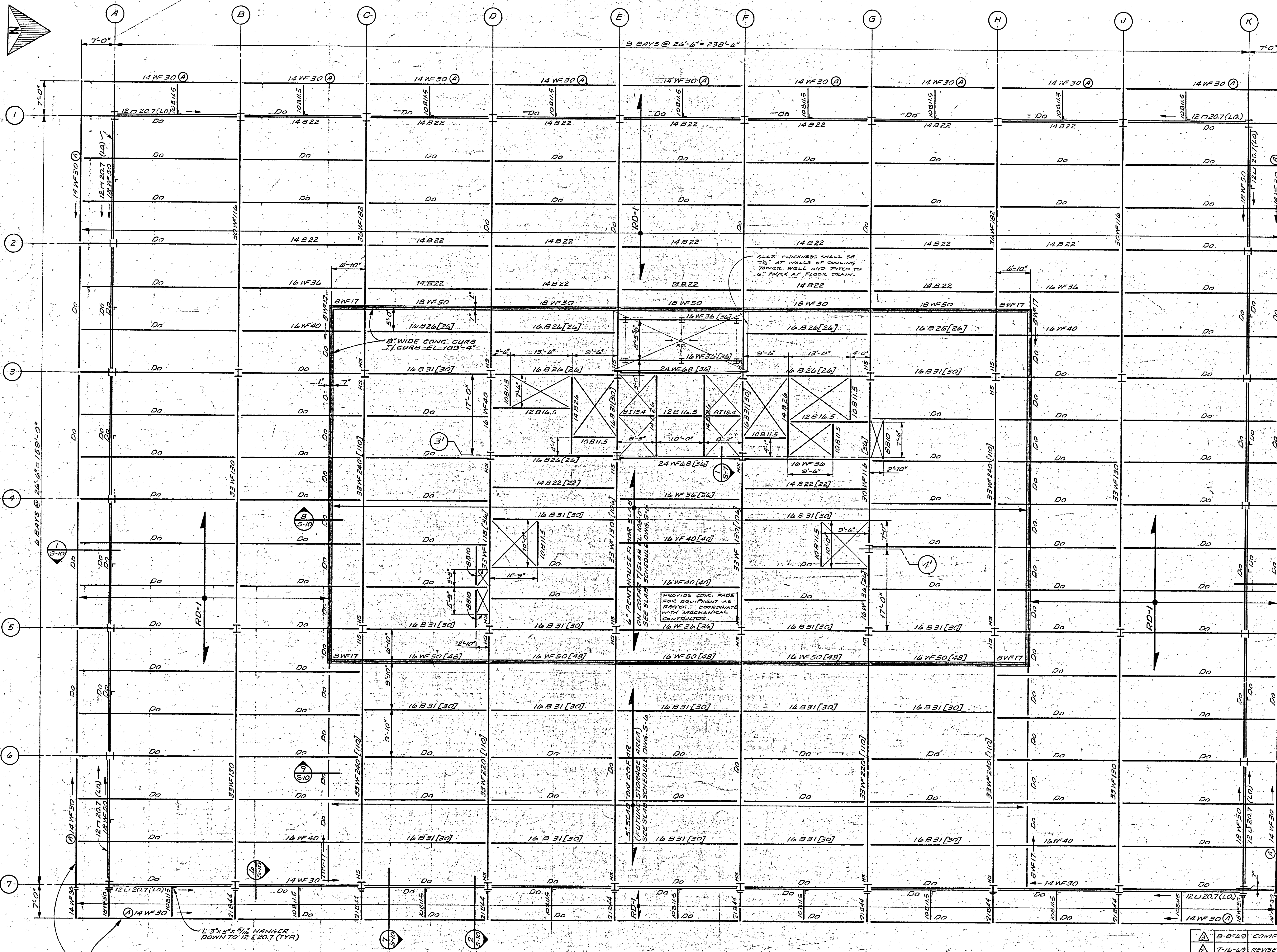
2ND, 3RD & 4TH FLOOR FRAMING PLAN
LIVE LOAD: 100 P.S.F. SCALE: 1/8" = 1'-0"

- NOTES:
- H.S. INDICATES HIGH STRENGTH BOLTS. SEE NOTE #1 ON SHEET S-4. IN ADDITION, ALL SHORREL BEAM AND GIRDER CONNECTIONS SHALL BE MADE WITH H.S. BOLTS IN SINGLE SHEAR.
 - ALL 27WF GIRDERS ON LINES A AND K SHALL FRAME TO COLUMNS WITH 3 H.S. BOLTS. ALL OTHER MEMBERS SHALL HAVE H.S. BOLTS, WITH NUMBER OF ROWS AS CALLED FOR IN SPECS.
 - SEE NOTE #2 ON SHEET S-4.

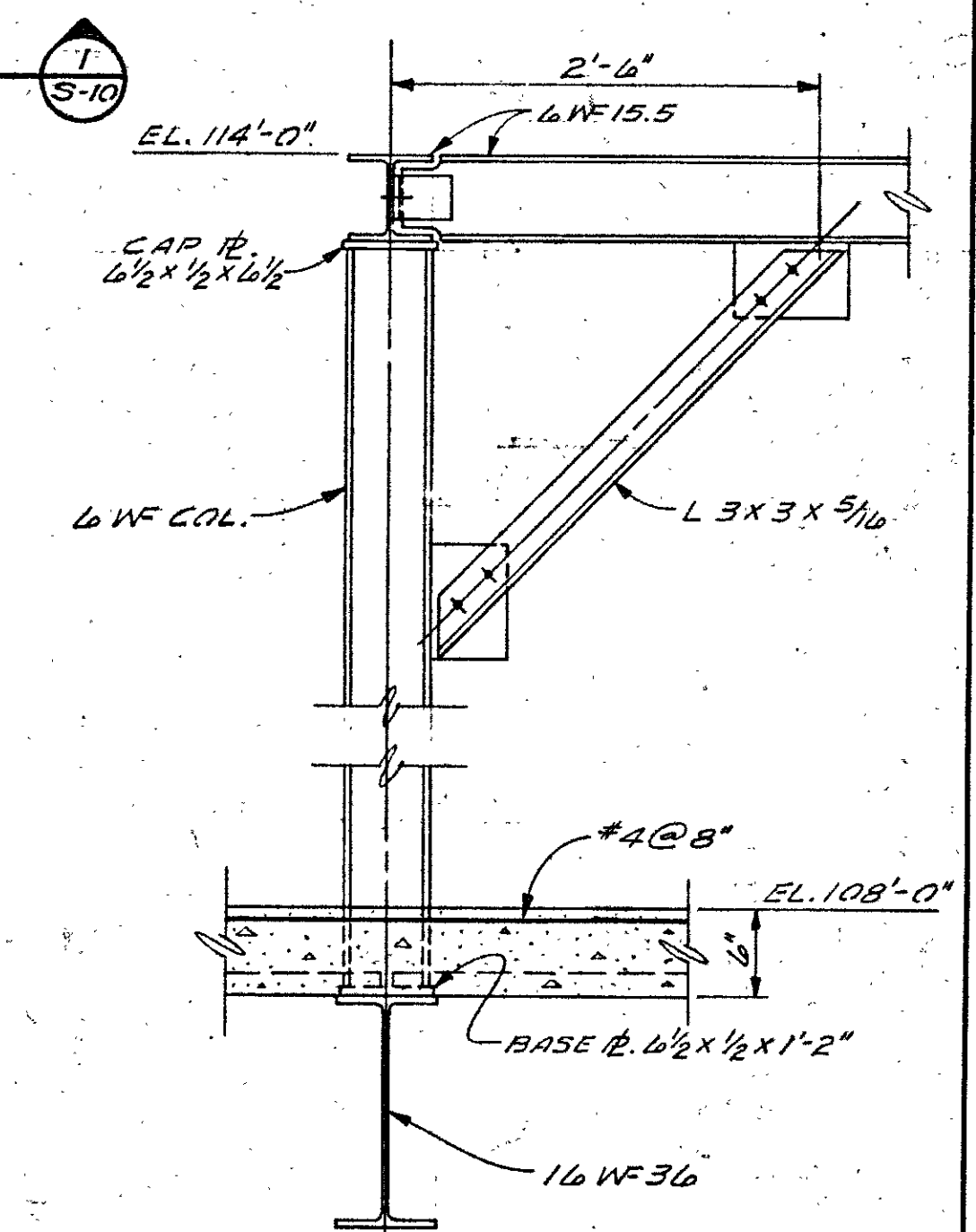
T/SLAB ELEVATIONS
2ND FLOOR EL. 46'-0"
3RD FLOOR EL. 60'-0"
4TH FLOOR EL. 94'-0"
T/STEEL IS 4 1/2" FROM T/SLAB

9-10-69	CHANGED LOCATION DIMENSIONS OF BEAMS AT 3 STAIRWELLS
8-8-69	COMPLETED CORE & STAIR FRAMING.
7-16-69	REISSUED FOR REINFORCING STEEL BIDDING
7-7-69	REISSUED FOR FLOOR DECK BIDDING
REV.	DATE
DRAWING NO. S-7	
2ND, 3RD, & 4TH FLOOR FRAMING PLAN	
OPERATIONS CENTER	
HARTFORD NATIONAL BANK AND TRUST COMPANY HARTFORD, CONNECTICUT	
APPROVED: CHARLES DU BOSE FAIA ARCHITECT DATE: JUNE 17, 1969 49 WOODLAND STREET HARTFORD, CONNECTICUT JAMES S. MINGES & ASSOCIATES - ENGINEERS FARMINGTON, CONNECTICUT	
SCALE: AS NOTED	
DRAWN: R.C.S.	
J.O.S., D.S.W.	
JUNE 17, 1969	
1085	





ELEVATOR MACHINE ROOM FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"
T/SLAB EL. 115'-9"
LIVE LOADS: 100 PSF + REACTIONS (SEE DWG. A-31)



SECTION - A
SCALE: 1" = 1'-0"
14 WF 30 IS OFFSET 3" TO THE EAST OF COLUMN LINE (7)

MAIN ROOF AND PENTHOUSE FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTES:

- RD-1 INDICATES 2 1/2" POURED GYPSUM ON 1/2" SHEETROCK FORMBOARD ON V-200 BULB TEES @ 2'-5 1/2" o.c.
- H.S. INDICATES HIGH STRENGTH BOLTS. SEE NOTE NO. 1 ON SHEET S-4.
- (A) INDICATES 14 WF 30 FASCIA BEAMS WHICH SHALL NOT BE ERRECTED UNTIL PRECAST WALL PANELS ARE IN PLACE.

LIVE LOAD: PENTHOUSE FLOOR (EXC. CHILLER AREA) & FUTURE STORAGE AREA - 125 PSF
CHILLER AREA - 200 PSF
ROOF AREAS - 30 PSF

REV.	DATE	DESCRIPTION
1	7-16-49	COMPLETED CORE & STAIR FRAMING.
2	7-16-49	REVISED & REISSUED FOR REINFORCING STEEL BIDDING
3	7-7-49	REISSUED FOR FLOOR DECK BIDDING

DRAWING NO. **S-8**

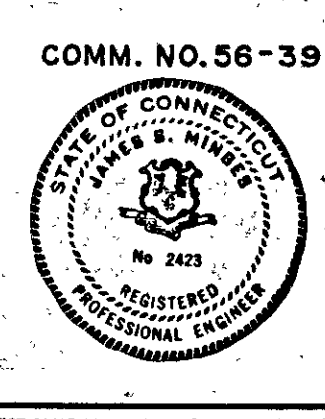
MAIN ROOF & PENTHOUSE FLOOR FRAMING PLAN
OPERATIONS CENTER

HARTFORD NATIONAL BANK AND TRUST COMPANY
HARTFORD, CONNECTICUT

CHARLES DU BOSE FAIA ARCHITECT
49 WOODLAND STREET HARTFORD, CONNECTICUT

JAMES S. MINGES & ASSOCIATES-ENGINEERS
FARMINGTON, CONNECTICUT

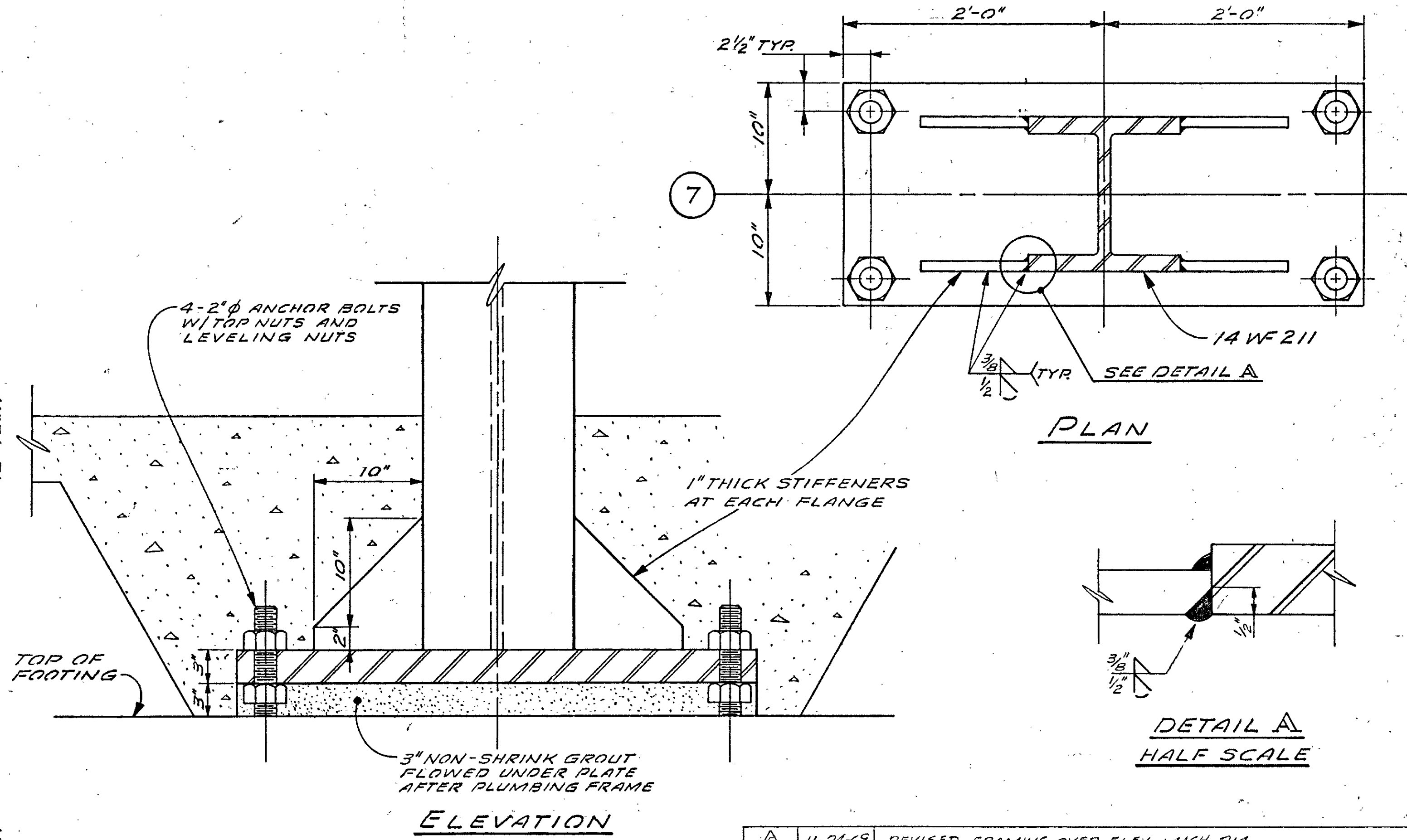
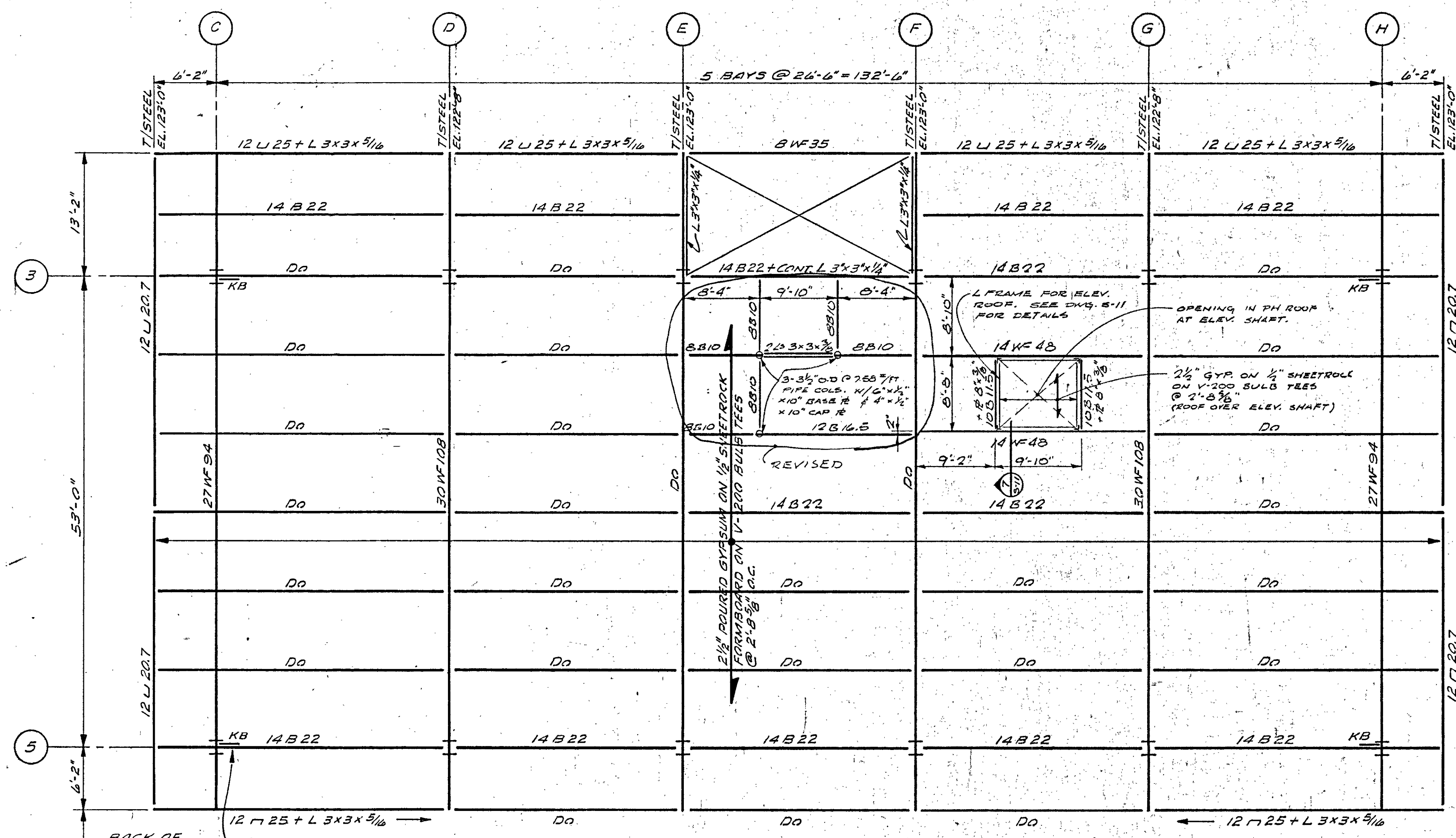
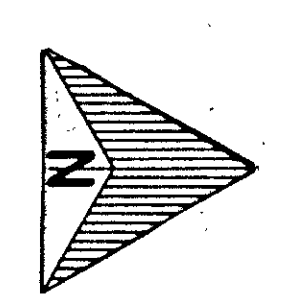
DATE: JUNE 17, 1969
JOB NO. 1085



COLUMN SCHEDULE

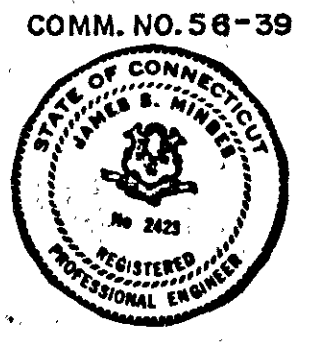
COLUMN NUMBER	B-1 C-1 D-1 E-1 F-1 G-1 H-1 U-1	A-1 K-1 A-7 K-7	A-2 A-3 A-4 A-5 A-6	K-2 K-3 K-4 K-5 K-6	B-7 U-7	C-7 D-7 E-7 F-7 G-7 H-7	B-3 B-5 U-3	U-5	C-3 C-5 H-3 H-5	E-5 F-5	E-3 F-3	D-3 E-3	F-3	G-3	D-5	G-5	D-3 G-4	H-5 H-6	
PENTHOUSE ROOF T/STEEL EL. 123'-0"																			
MAIN ROOF T/STEEL EL. 108'-0"																			
4TH FLOOR T/SLAB EL. 94'-0"	14WF 63	14WF 64	14WF 64						14WF 67		14WF 67		14WF 68		14WF 68				
3RD FLOOR T/SLAB EL. 80'-0"									14WF 103		14WF 103		14WF 103		14WF 103				
2ND FLOOR T/SLAB EL. 66'-0"	14WF 103	14WF 78	14WF 84						14WF 103		14WF 103		14WF 103		14WF 103				
MAIN FLOOR T/SLAB EL. 52'-0"	OTHERS	A-1/K-1 A-7/K-7							14WF 126		14WF 126		14WF 126		14WF 126				
SERVICE FLOOR T/SLAB EL. 38'-0"									14WF 126		14WF 126		14WF 126		14WF 126				
PARKING LEVEL T/SLAB EL. 27'-6"									14WF 126		14WF 126		14WF 126		14WF 126				
PARKING LEVEL T/SLAB EL. 17'-0"									14WF 126		14WF 126		14WF 126		14WF 126				
CAP PLATE	11" x 1" x 1'-10"	11" x 1" x 1'-10"	11" x 1" x 1'-10"	12" x 1" x 1'-2"	14 1/2" x 1" x 1'-2 1/2"	14 1/2" x 1" x 1'-2 1/2"	14 1/2" x 1" x 1'-2 1/2"	15" x 1" x 1'-10"	15" x 1" x 1'-10"	14 1/2" x 1" x 1'-2 1/2"	15" x 1" x 1'-10"	15" x 1" x 1'-10"	15" x 1" x 1'-10"	15" x 1" x 1'-10"	15" x 1" x 1'-10"	15" x 1" x 1'-10"	14" x 1" x 1'-2 1/2"	NONE	
BASE PLATE	22" x 3 1/4" x 2'-10"	20" x 1 1/2" x 1'-8"	23" x 2" x 1'-11"	20" x 4 1/2" x 3'-2"	20" x 3" x 4'-0" STIFFENED PLATE	36" x 4 1/4" x 3'-0"	34" x 3 1/4" x 2'-10"	39" x 3 3/4" x 3'-3"	40" x 3 3/4" x 3'-4"	31" x 3 1/4" x 2'-7"	34" x 3 3/4" x 2'-10"	34" x 3 3/4" x 2'-10"	40" x 4 3/4" x 3'-4"	39" x 4 3/4" x 3'-3"	36" x 4 1/4" x 3'-0"	31" x 3 1/4" x 2'-7"	23" x 2" x 1'-11"		

- COLUMN NOTES**
- ALL DIMENSIONS ARE FROM BOTTOM OF BASE PLATE TO TOP OF COLUMN OR TOP OF CAP PLATE. ALL COLUMN SPLICES ARE LOCATED 2'-0" ABOVE FLOOR SLABS.
 - ALL COLUMN BASES SHALL HAVE 4-2" Ø HOOKED ANCHOR BOLTS WITH HEAVY HEX TOP NUTS AND LEVELING NUTS. IMBEDMENT LENGTH SHALL BE 2'-6" ON WALLS AND 3" LESS THAN FOOTING THICKNESS ON SPREAD FOOTINGS. HOOK SHALL BE AS NEEDED TO HAVE AT LEAST 2 THREADS EXPOSED ABOVE TOP OF NUT.
 - BOTTOM OF BASE PLATE SHALL BE LOCATED 3" ABOVE TOP OF FOOTING OR FOUNDATION WALL. AFTER THE STEEL FRAME IS PLUMBED AND LEVELING NUTS ARE IN THEIR FINAL POSITION AND BEFORE MORE THAN ONE STRUCTURAL LEVEL ABOVE HAS BEEN COMPLETED, TIGHTEN TOP NUTS AND FLOW NON-SHRINK GROUT BENEATH FULL AREA OF BASE PLATE.
 - LONG DIMENSION OF RECTANGULAR BASE PLATES ON LINES 1 & 7 SHALL BE PARALLEL TO COLUMN FLANGES.
 - LONG DIMENSION OF CAP PLATES SHALL BE PARALLEL TO MEMBER FRAMING OVER COLUMN.
 - ALL COLUMN BASES ON SPREAD FOOTINGS SHALL BE ENCASED BY THE FLOOR SLAB TO GIVE AT LEAST 2" CONCRETE COVER.



BASE PLATE DETAILS
COLS. C-7, D-7, E-7, F-7, G-7 & H-7
SCALE 1/2" = 1'-0"

REV.	DATE	DESCRIPTION
1	11-24-69	REVISED FRAMING OVER ELEV. MACH RM.
2	11-11-69	EXTENDED COLS. A1 & G1 DOWN TO BELOW SERVICE LEVEL.
3	11-3-69	ADDED 8" x 8" x 1/2" AT ELEV. SHAFT OPNG.
4	9-10-69	REVISED CIRCLED AREAS
5	7-16-69	REISSUED FOR REINFORCING STEEL BIDDING.



PENTHOUSE ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

LIVE LOAD: 30 PSF + 20 PSF HUNG.

NOTE:
TOP OF PERIMETER 12 C'S IS EL. 123'-0".
L 3 X 3 X 3/16 ON EAST AND WEST SIDES
IS WELDED TO BACK OF CHANNEL TO
RECEIVE BULB TEES.

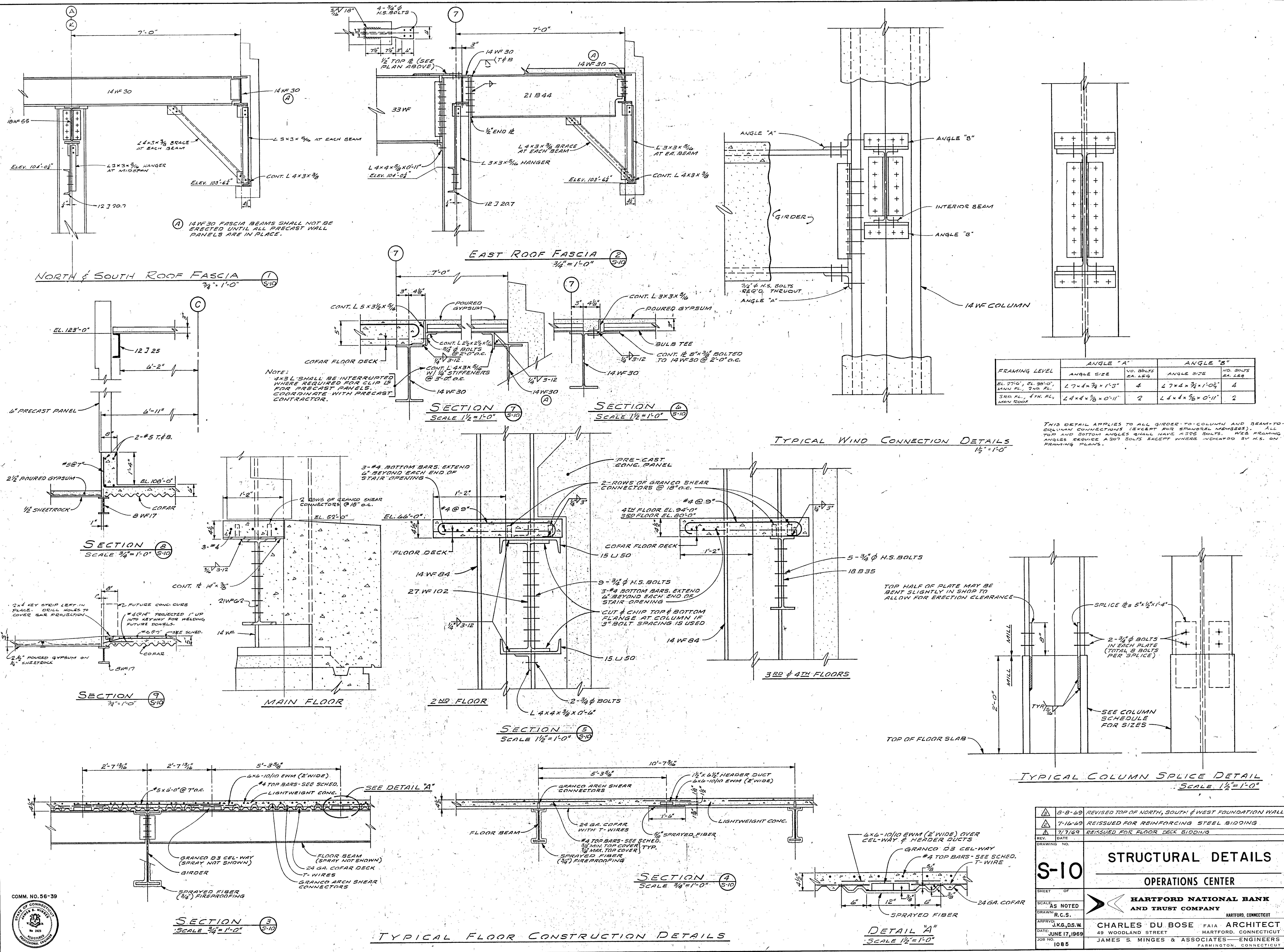
S-9 PENTHOUSE ROOF FRAMING PLAN
OPERATIONS CENTER

HARTFORD NATIONAL BANK AND TRUST COMPANY
HARTFORD, CONNECTICUT

CHARLES DU BOSE FAIA ARCHITECT
49 WOODLAND STREET HARTFORD, CONNECTICUT

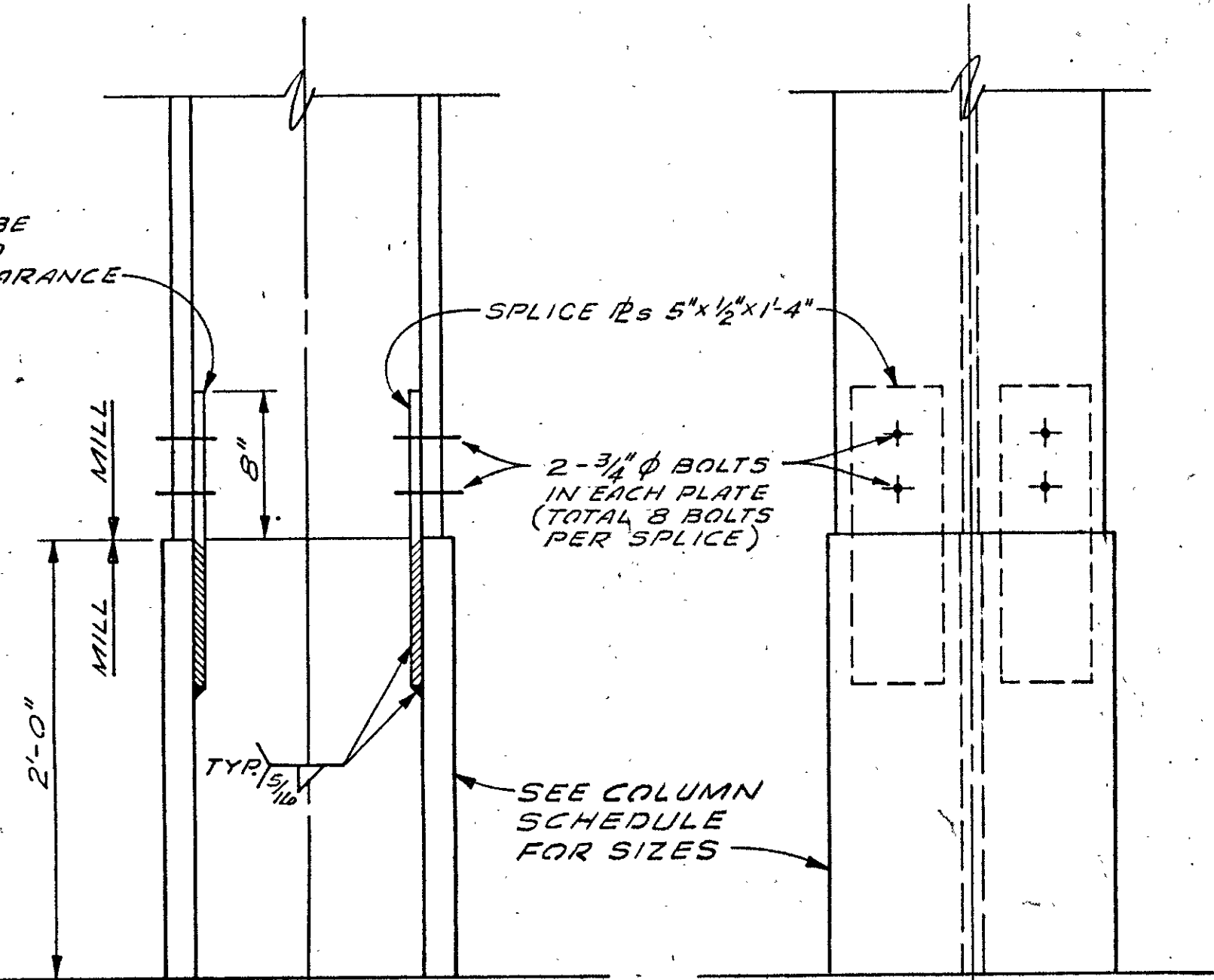
JAMES S. MINGES & ASSOCIATES ENGINEERS
FARMINGTON, CONNECTICUT

DATE: JUNE 17, 1969
JOB NO. 1085



FRAMING LEVEL	ANGLE "A"		ANGLE "B"	
	ANGLE SIZE	NO. BOLTS EA. LEG	ANGLE SIZE	NO. BOLTS EA. LEG
EL. 104'-0" MAIN FL., 2ND FL.	L7x4x3/8x1'-3"	4	L7x4x3/8x1'-0 1/2"	4
3RD FL., 4TH FL. MAIN ROOF	L4x4x3/8x0'-11"	2	L4x4x3/8x0'-11"	2

THIS DETAIL APPLIES TO ALL GIRDER-TO-COLUMN AND BEAM-TO-COLUMN CONNECTIONS (EXCEPT FOR SPANREL MEMBERS). ALL TOP AND BOTTOM ANGLES SHALL HAVE HSS BOLTS. WBS FRAMING ANGLES REQUIRE A307 BOLTS EXCEPT WHERE INDICATED BY H.S. ON FRAMING PLANS.



TYPICAL COLUMN SPLICE DETAIL
SCALE 1/2" = 1'-0"

REV.	DATE	DESCRIPTION
3-B-69		REVISED TOP OF NORTH, SOUTH & WEST FOUNDATION WALLS.
7-16-69		REISSUED FOR REINFORCING STEEL BIDDING
7-17-69		REISSUED FOR FLOOR DECK BIDDING
DRAWING NO. S-10		
STRUCTURAL DETAILS		
OPERATIONS CENTER		
HARTFORD NATIONAL BANK AND TRUST COMPANY		
HARTFORD, CONNECTICUT		
CHARLES DU BOSE FAIA ARCHITECT		
49 WOODLAND STREET HARTFORD, CONNECTICUT		
JAMES S. MINGES & ASSOCIATES—ENGINEERS		
FARMINGTON, CONNECTICUT		
DATE: JUNE 17, 1969		
JOB NO. 1085		



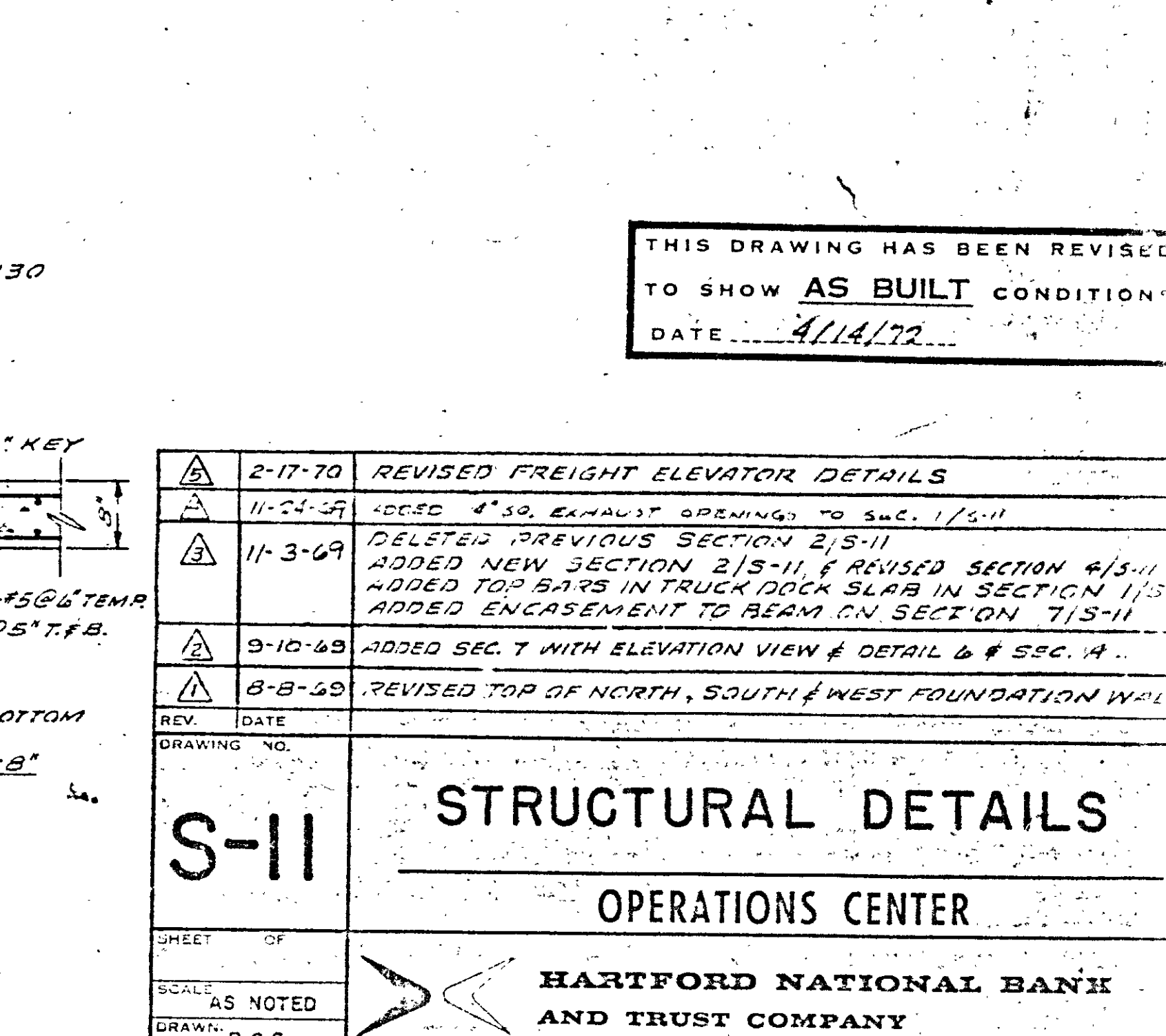
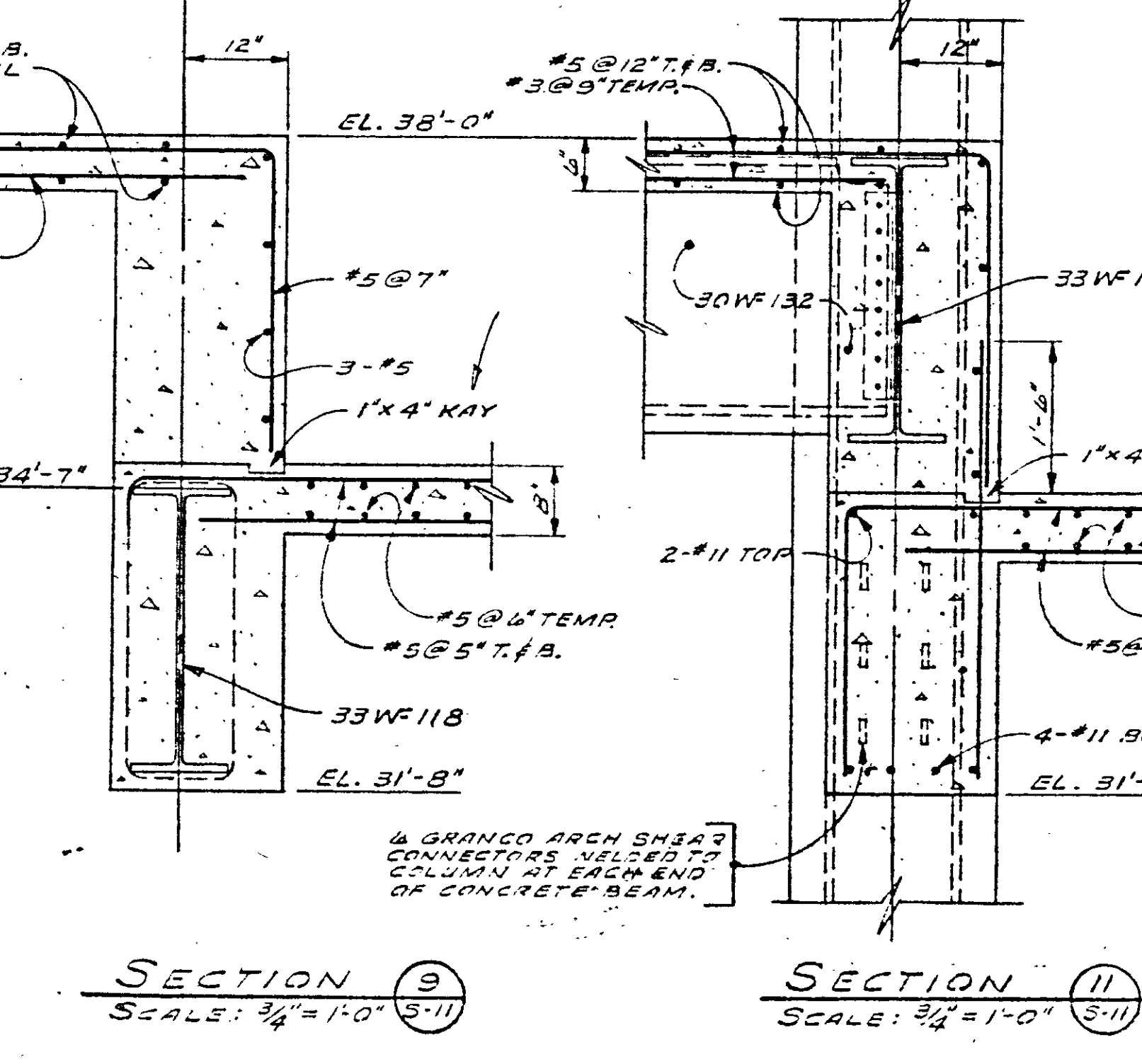
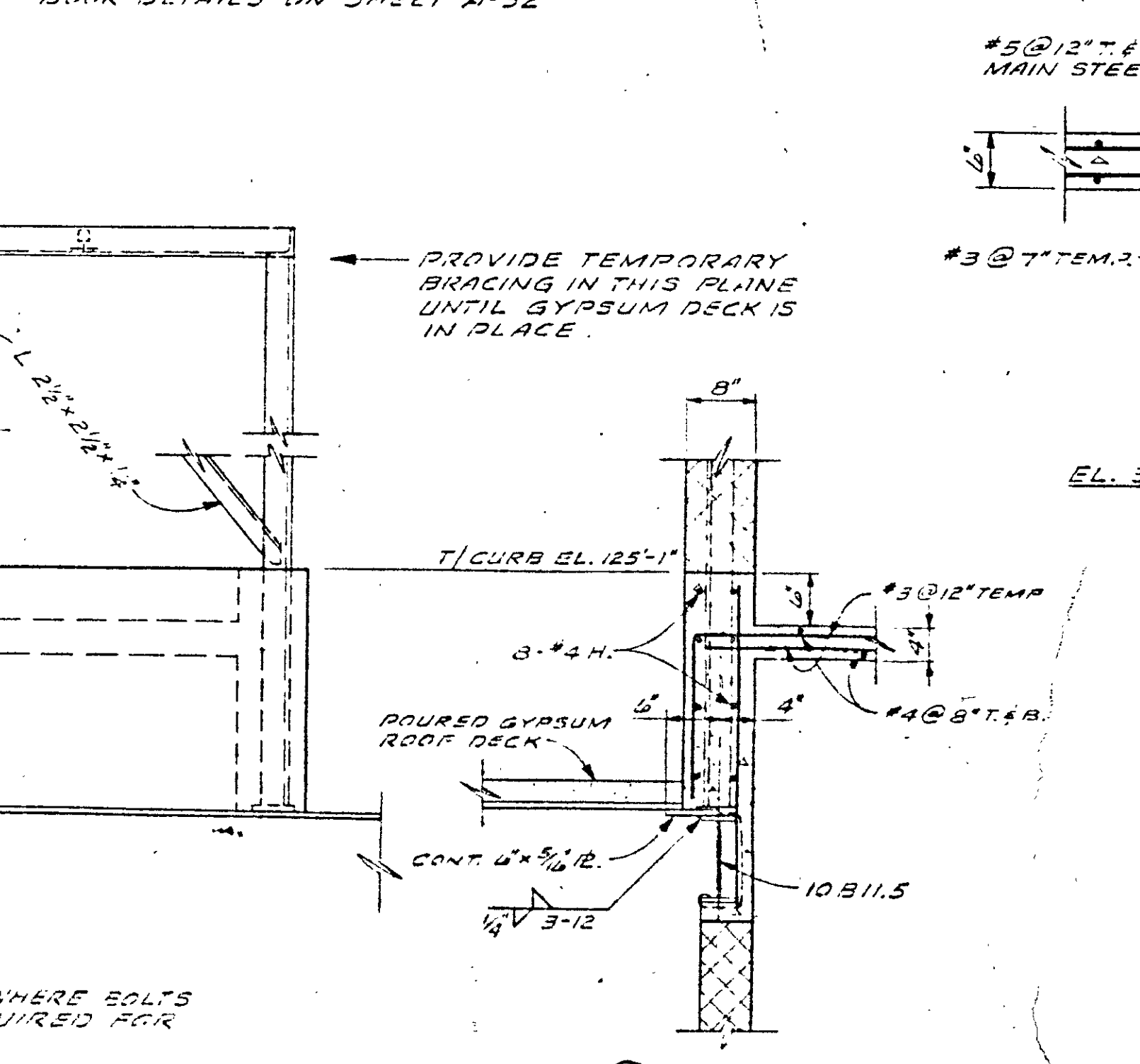
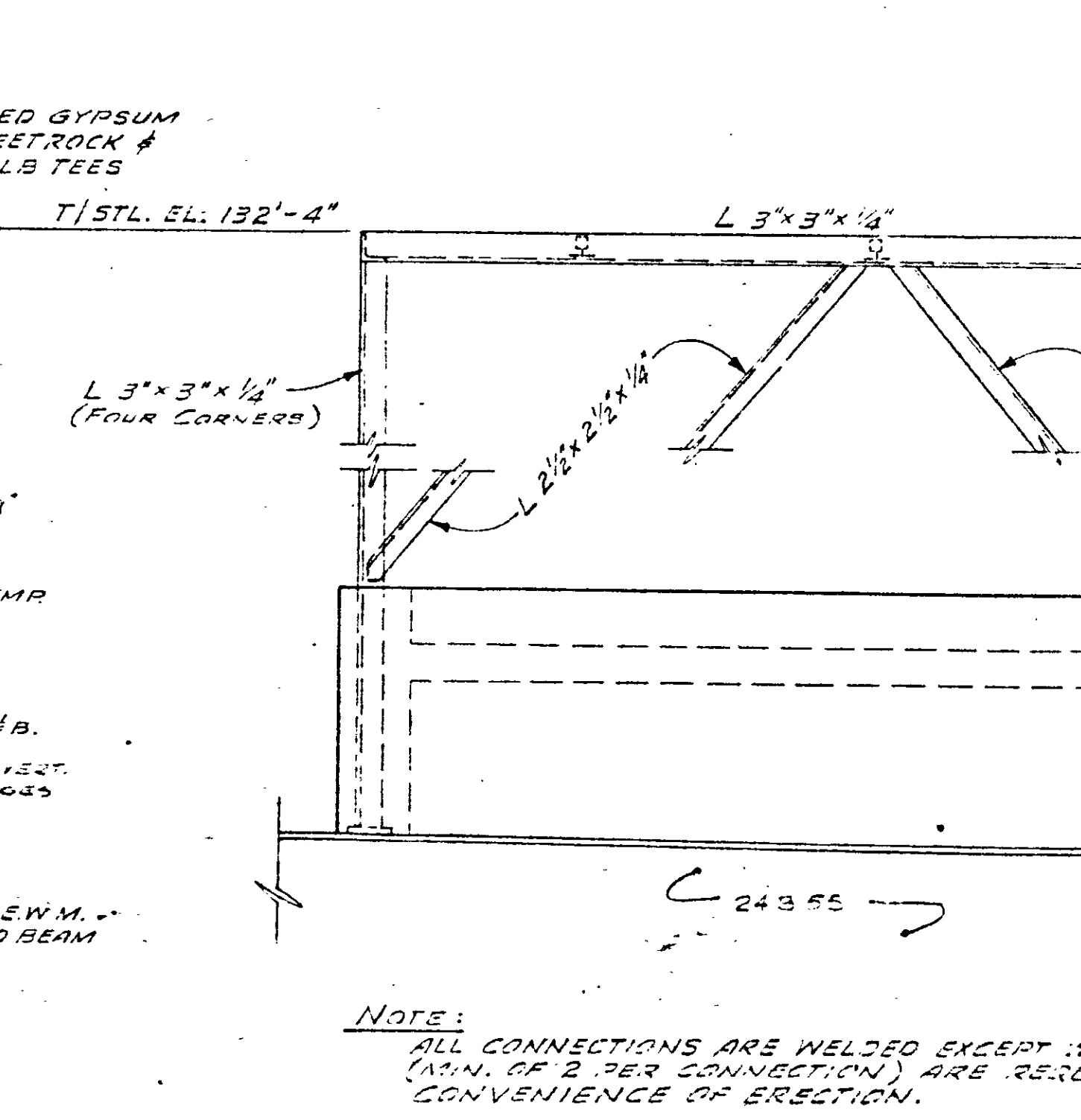
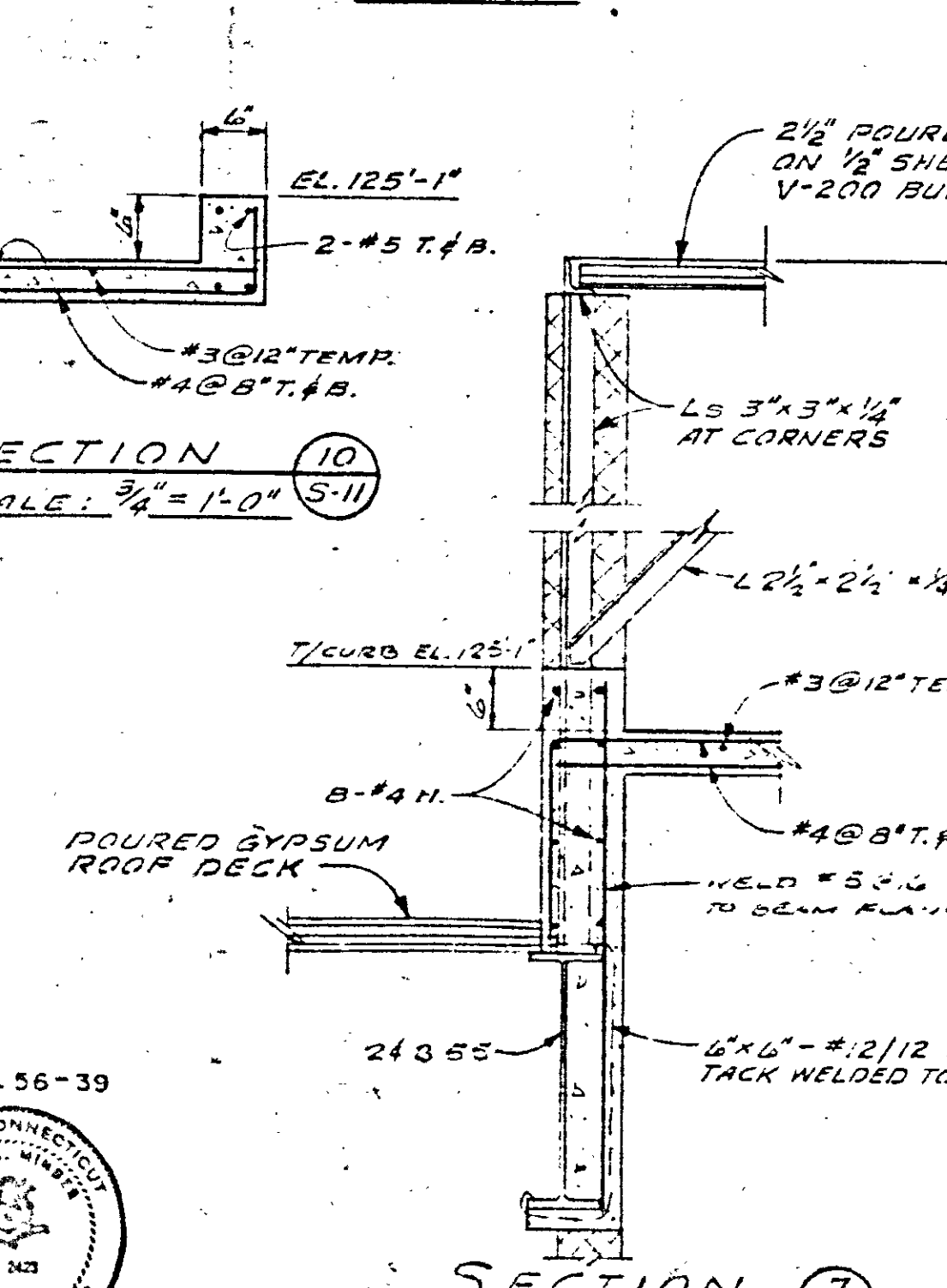
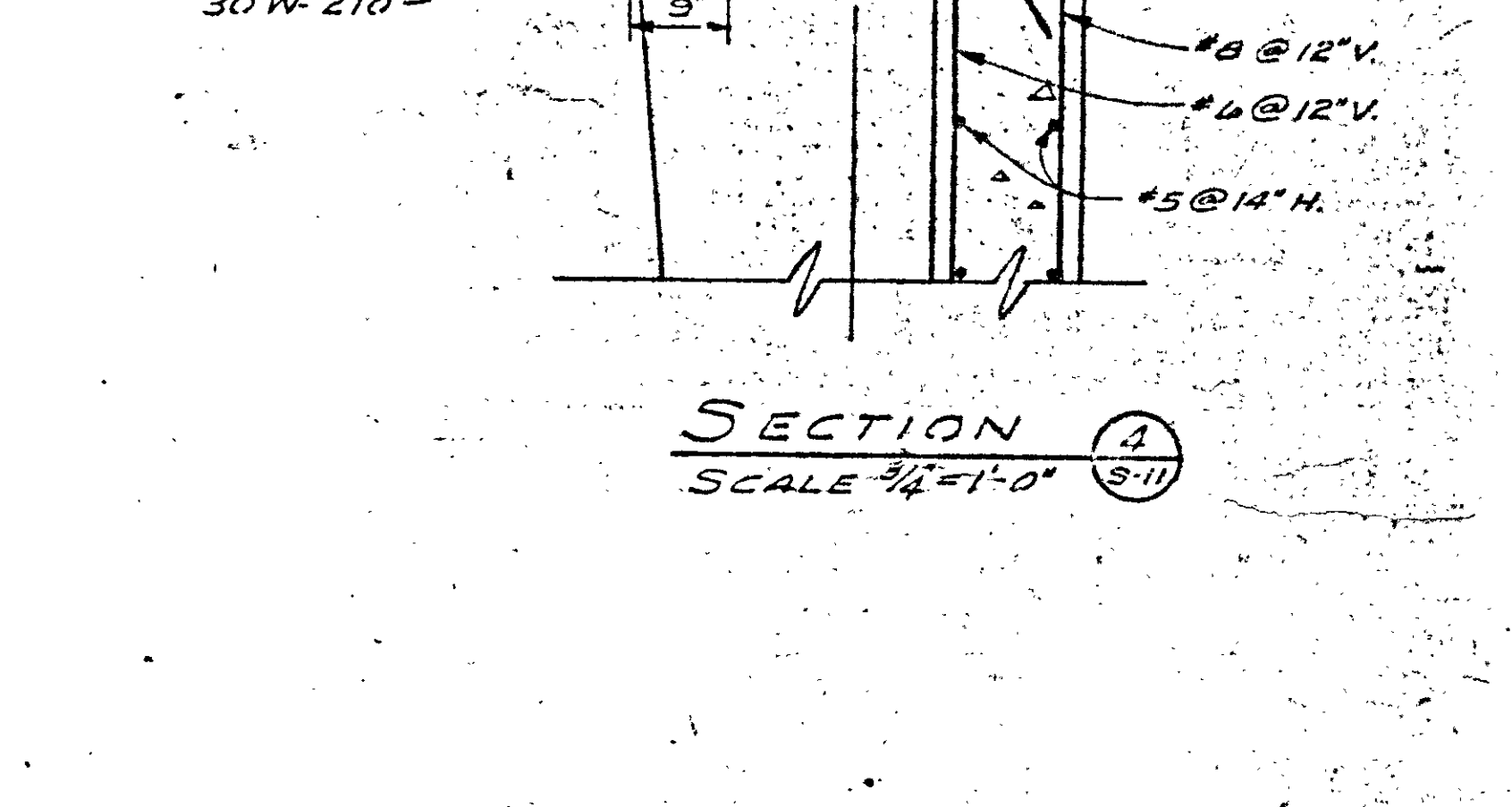
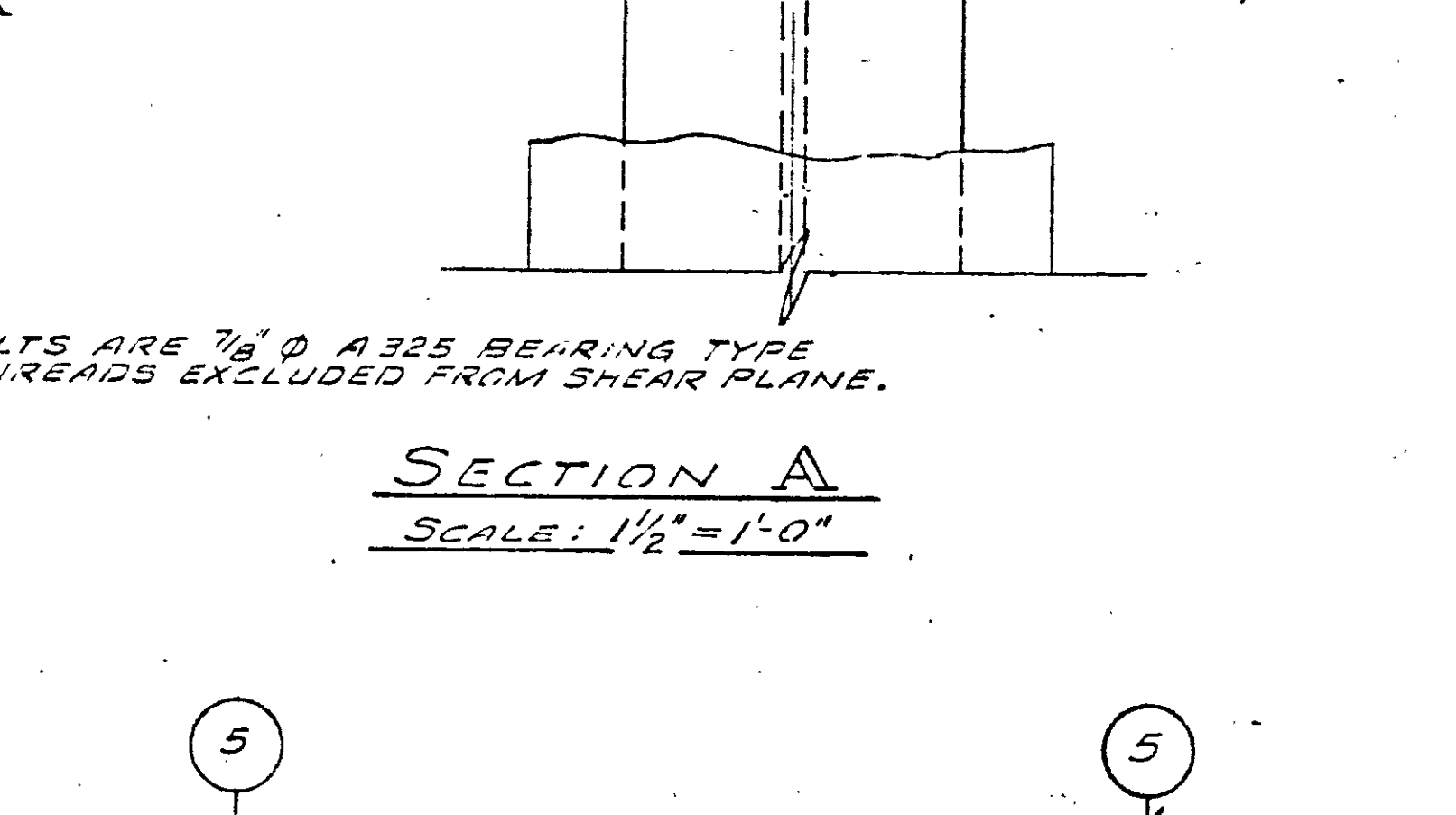
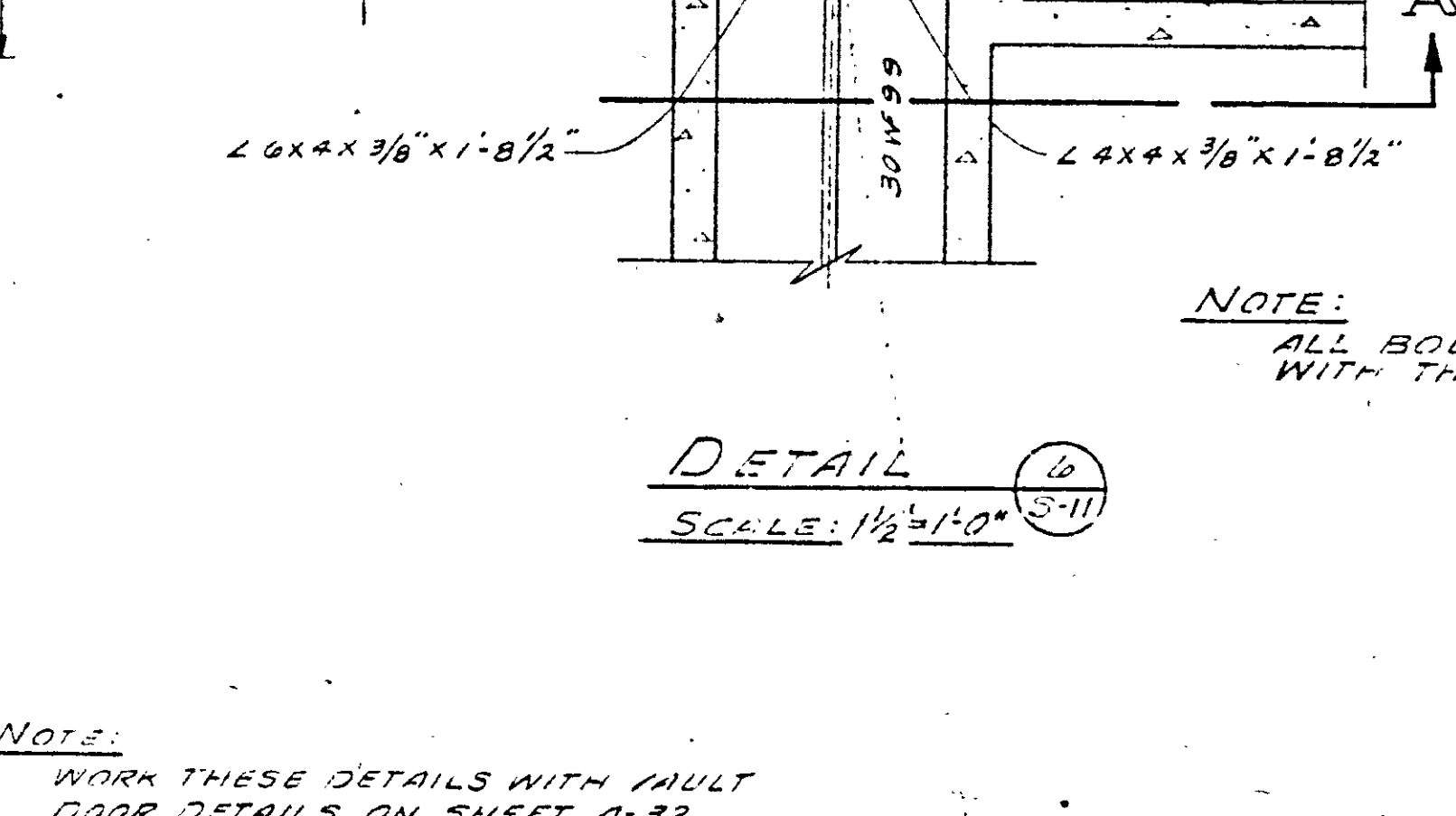
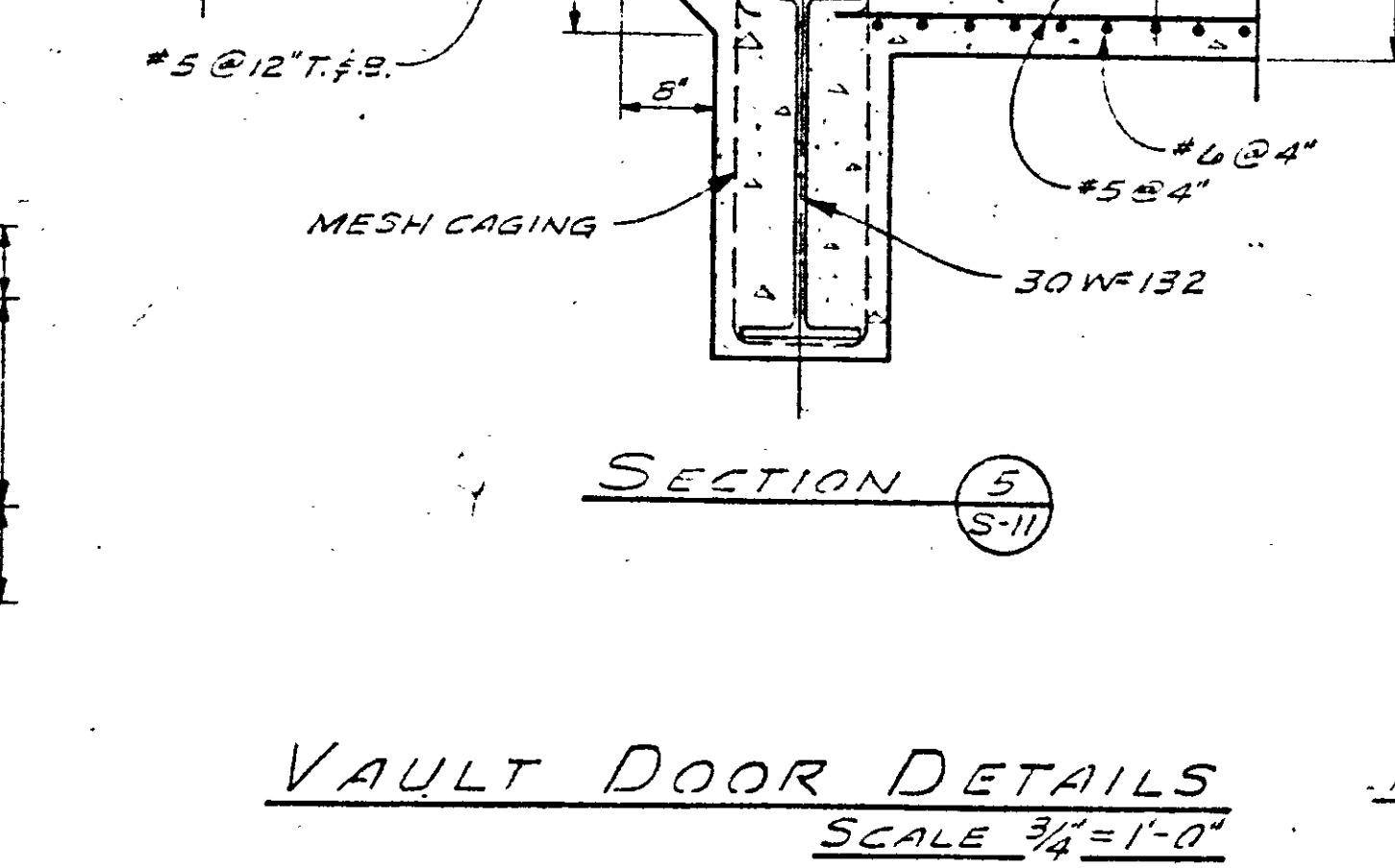
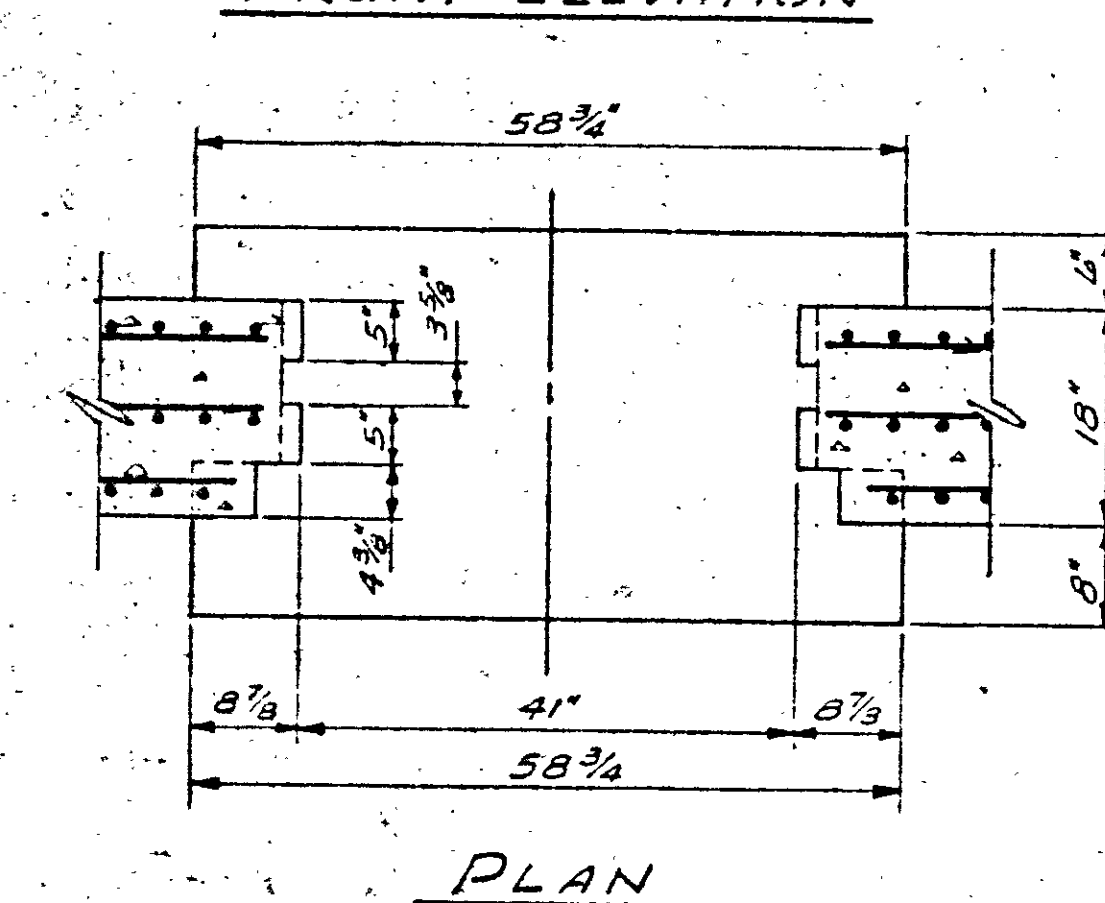
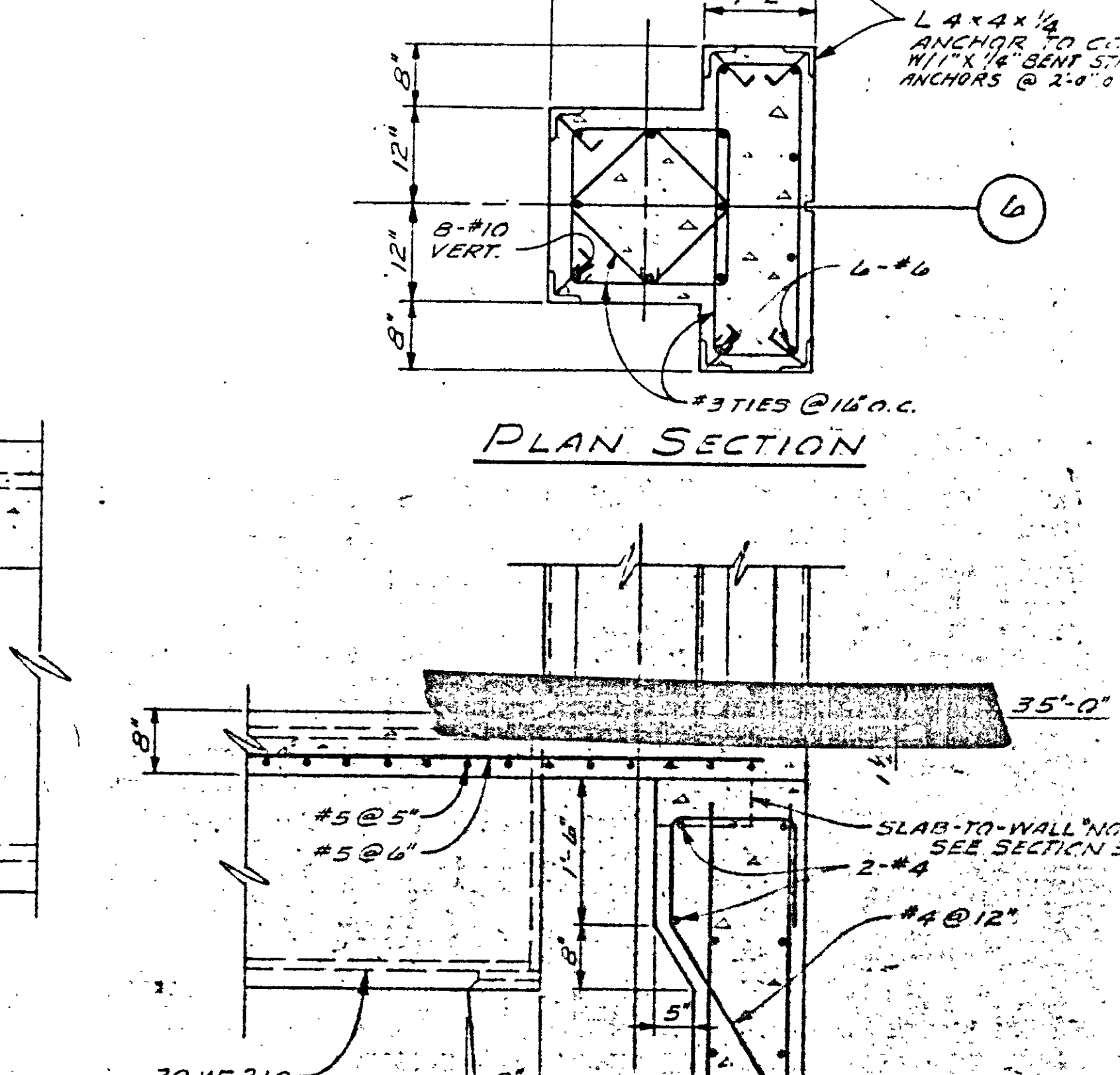
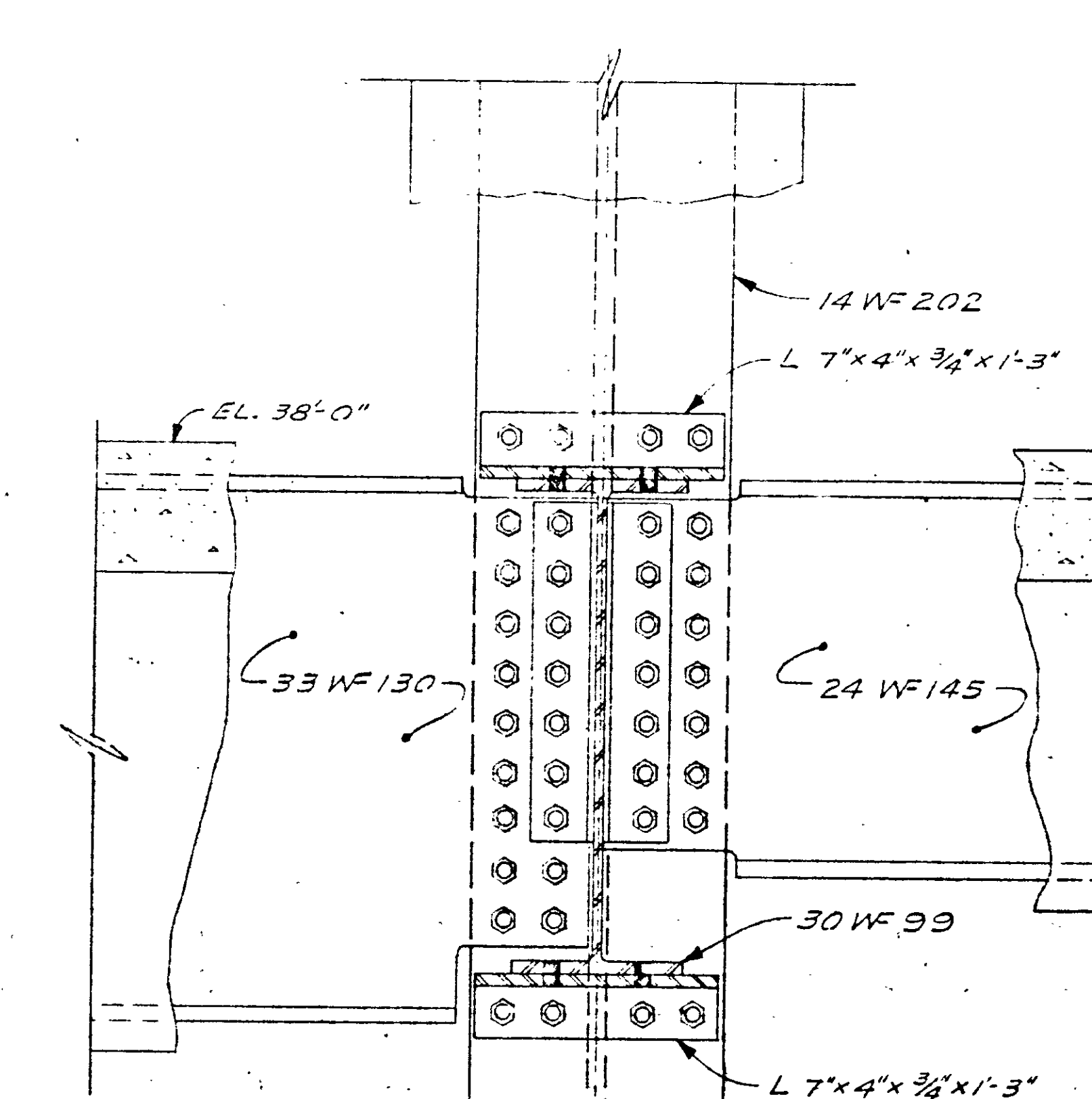
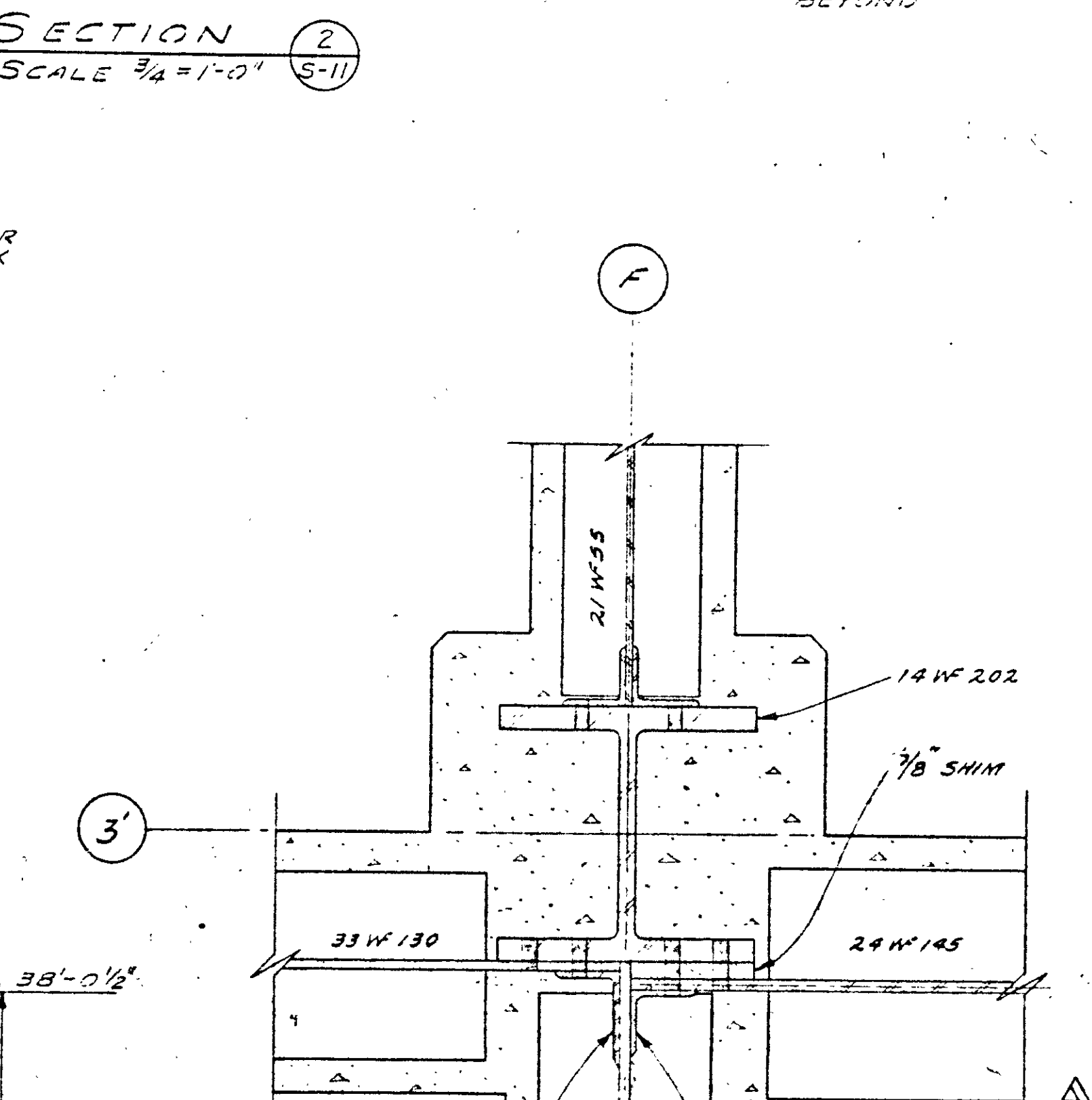
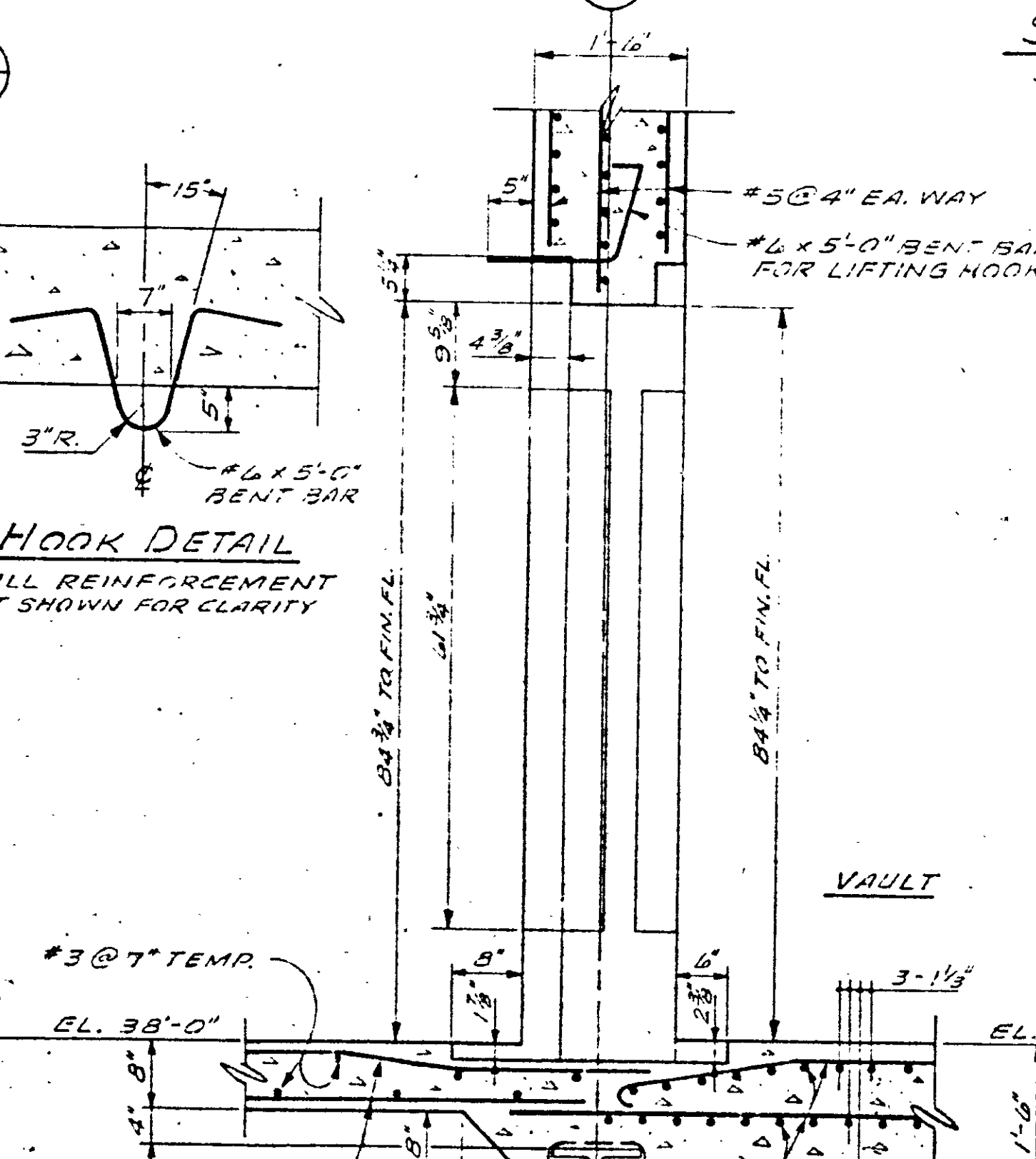
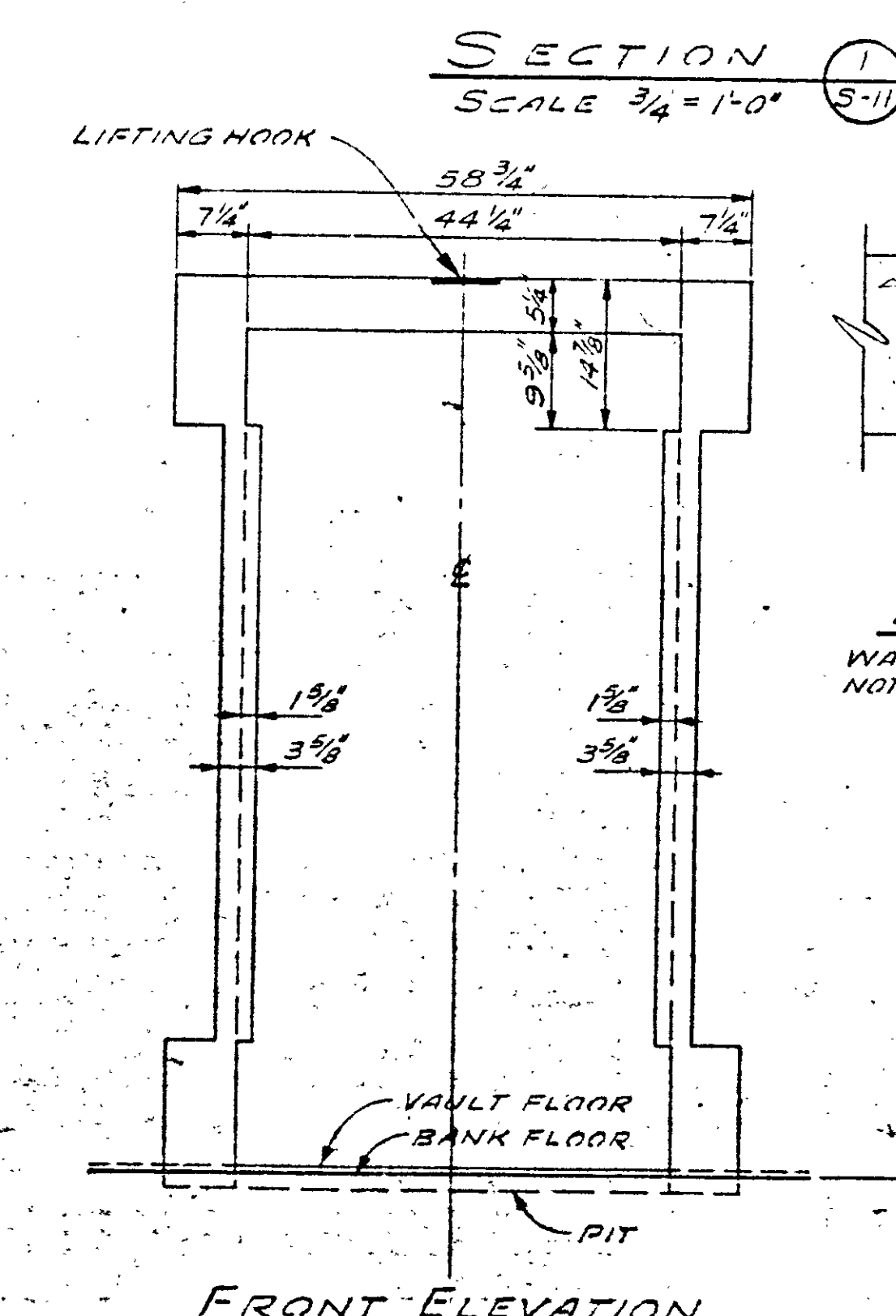
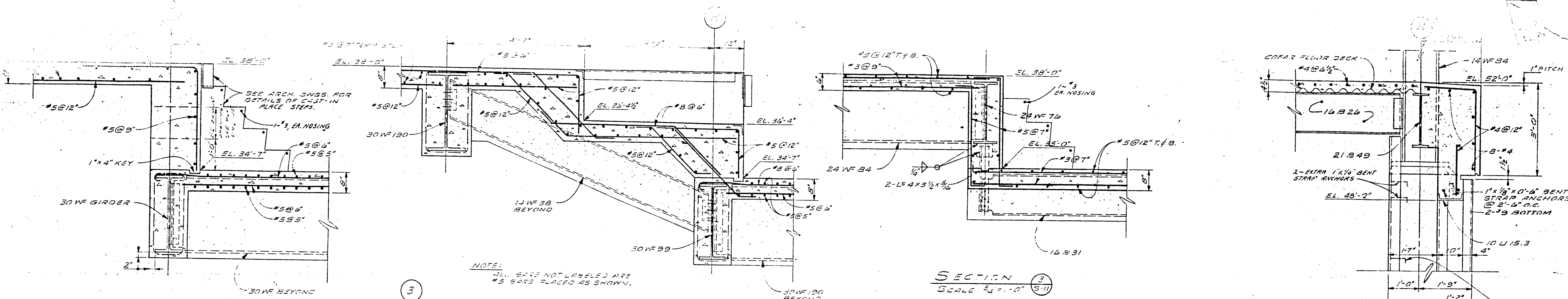
SECTION 3
SCALE 3/4" = 1'-0"

TYPICAL FLOOR CONSTRUCTION DETAILS

SECTION 4
SCALE 3/4" = 1'-0"

DETAIL "A"
SCALE 1/2" = 1'-0"

COMM. NO. 56-39



SECTION 10 SCALE: 3/4"=1'-0" (S-11)

SECTION 11 SCALE: 3/4"=1'-0" (S-11)

SECTION 12 SCALE: 3/4"=1'-0" (S-11)

SECTION 13 SCALE: 3/4"=1'-0" (S-11)

SECTION 14 SCALE: 3/4"=1'-0" (S-11)

SECTION 15 SCALE: 3/4"=1'-0" (S-11)

SECTION 16 SCALE: 3/4"=1'-0" (S-11)

SECTION 17 SCALE: 3/4"=1'-0" (S-11)

SECTION 18 SCALE: 3/4"=1'-0" (S-11)

SECTION 19 SCALE: 3/4"=1'-0" (S-11)

SECTION 20 SCALE: 3/4"=1'-0" (S-11)

SECTION 21 SCALE: 3/4"=1'-0" (S-11)

SECTION 22 SCALE: 3/4"=1'-0" (S-11)

SECTION 23 SCALE: 3/4"=1'-0" (S-11)

SECTION 24 SCALE: 3/4"=1'-0" (S-11)

SECTION 25 SCALE: 3/4"=1'-0" (S-11)

SECTION 26 SCALE: 3/4"=1'-0" (S-11)

SECTION 27 SCALE: 3/4"=1'-0" (S-11)

SECTION 28 SCALE: 3/4"=1'-0" (S-11)

SECTION 29 SCALE: 3/4"=1'-0" (S-11)

SECTION 30 SCALE: 3/4"=1'-0" (S-11)

SECTION 31 SCALE: 3/4"=1'-0" (S-11)

SECTION 32 SCALE: 3/4"=1'-0" (S-11)

SECTION 33 SCALE: 3/4"=1'-0" (S-11)

SECTION 34 SCALE: 3/4"=1'-0" (S-11)

SECTION 35 SCALE: 3/4"=1'-0" (S-11)

SECTION 36 SCALE: 3/4"=1'-0" (S-11)

SECTION 37 SCALE: 3/4"=1'-0" (S-11)

SECTION 38 SCALE: 3/4"=1'-0" (S-11)

SECTION 39 SCALE: 3/4"=1'-0" (S-11)

THIS DRAWING HAS BEEN REVISED TO SHOW AS BUILT CONDITIONS DATE 4/14/72

NO.	DATE	DESCRIPTION
1	2-17-70	REVISED FREIGHT ELEVATOR DETAILS
2	11-24-69	DELETED 4" DIA. EXHAUST OPENING TO SUC. 17S-11
3	11-3-69	DELETED PREVIOUS SECTION 2/5-11 ADDED NEW SECTION 2/5-11, & REVISED SECTION 4/5-11 ADDED TOP 5" DIA. IN TRUCK DOOR SLAB IN SECTION 1/5-11 ADDED ENCASEMENT TO BEAM IN SECTION 7/5-11
4	9-10-69	ADDED SEC. T WITH ELEVATION VIEW & DETAIL & SEC. A
5	8-8-69	REVISED TOP OF NORTH, SOUTH & WEST FOUNDATION WALL

SHEET OF **S-11**
 SCALE AS NOTED
 DRAWN: R.C.S.
 APPROVED: J.K.G., D.S.W.
 DATE: JULY 16, 1969
 JOB NO. 1085

STRUCTURAL DETAILS
OPERATIONS CENTER
HARTFORD NATIONAL BANK AND TRUST COMPANY
 HARTFORD, CONNECTICUT
CHARLES DU BOSE FAIA ARCHITECT
 49 WOODLAND STREET HARTFORD, CONNECTICUT
JAMES S. MINGES & ASSOCIATES ENGINEERS
 FARMINGTON, CONNECTICUT

