PROJECT NO. SHEET NO.

INDEX

CAFETERIA EQUIPMENT LAYOUTS

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15	FLOOR PLAN: BODY TO PAINT ROOF CONVEYOR HOUSING
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SHEET NUMBER	SHEET TITLE
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C-3	FOUNDATION PLAN
C-4	FOUNDATION PLAN
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C-7	FOUNDATION PLAN
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CONTRACTOR NOTES

1ST FLOOR SLAB — ALL STEEL (EXCEPT STRUCTURAL STEEL) WHICH IS CAST INTO OR PENETRATING THE FIRST FLOOR CONCRETE WORK SHALL BE FURNISHED AND INSTALLED BY THE FIRST FLOOR SLAB CONTRACTOR (EXCEPT IN PLENUM AREA).

PLENUM — ALL STEEL (EXCEPT STRUCTURAL STEEL) WHICH IS CAST INTO OR PENETRATING PLENUM AREA SHALL BE FURNISHED & INSTALLED BY PLENUM CONTRACTOR.

MISCELLANEOUS STEEL — ALL STEEL (EXCEPT STRUCTURAL STEEL) NOTED MISC. ON DRAWINGS BUT NOT NOTED BY SPECIFIC CONTRACTOR, I.E. PLENUM CONTR., SLAB CONTR. ETC. SHALL BE FURNISHED & INSTALLED BY MISCELLANEOUS STEEL CONTRACTOR.

GENERAL NOTES:

1. F.S.E. - 1 THRU F.S.E.-9 = FOOD SERVICE EQUIPMENT DRAWINGS.
2. SP-1 = SEPARATE PRICE SCHEDULE
3. MECHANICAL SHEET INDEX - SEE MECHANICAL DRAWINGS.
4. ELECTRICAL SHEET INDEX - SEE ELECTRICAL DRAWINGS.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STR. STL. REF		
3-23-77	PRIME MECH & ELECT REF.		
3-21-77	CAISSION REF		
4-7-77	METAL ROOF DECK BID		
4-7-77	METAL SIDING BID		
4-7-77	PRECAST PANEL BID		
4-28-77	CONC. PLENUM BID		
4-28-77	INT FLR. CONC. BID		
5-20-77	SUPPORTED SLAB BID		
5-25-77	MISC STEEL BID		
5-26-77	ARCH BID		
5-27-77	PAINTING & FINISHING BID		

NO.	DATE	BY	APPROVAL	APPROVAL
G1	5-26-78	ZM		
1G0	6-15-78	ZM		
1192	11-7-77	ZM		
G1	7-7-77	MK		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

ARGONAUT DIVISION OF GENERAL MOTORS — ARCHITECTURE & ENGINEERING

PLANT ENGINEERING AND CONSTRUCTION — MANUFACTURING STAFF — GENERAL MOTORS CORPORATION — 485 WEST MILWAUKEE AVENUE • DETROIT, MICHIGAN — & REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

INDEX

SHEET TITLE

OWNER'S IDENTIFICATION

4500 — P. E. B. C. PROJECT NUMBER

DATE

DRAWN BY

JOB CAPT. C. BAISEE

1 — SHEET NUMBER

ARGO 118 REV. 12-69 K&E 17 0153 12-69

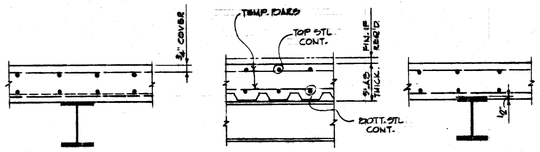
PROJECT NO. SHEET NO.

GENERAL NOTES - STEEL -

1. STRUCTURAL STEEL DESIGN IS BASED ON THE USE OF A.S.T.M. GRADE A36, UNLESS NOTED.
2. ALL BEAM CONNECTIONS ARE TO CONFORM TO A.I.S.C. STANDARD TWO ANGLE WEB CONNECTION CAPABLE OF SUPPORTING A MINIMUM OF 75% OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE "TABLES FOR "ALLOWABLE LOADS ON BEAMS" UNLESS OTHERWISE NOTED.
3. SPLICES OF TOP OR BOTTOM CHORD OF TRUSSES SHALL DEVELOP FULL CAPACITY OF CHORD MEMBER (NOT STRESSES SHOWN ON TRUSS DIAGRAM). THE LOCATION OF TRUSS SPLICES WHERE REQUIRED SHALL BE AT 75% OF MAX. STRESS.
4. PROVIDE SHELF ANGLES AT PURLIN OR BEAM LEVELS AT COLUMNS AND ELSEWHERE AS REQUIRED TO SUPPORT ROOF DECK OR FLOOR SLAB.
5. ANCHOR BOLTS AND LEVELING PLATES ARE TO BE FURNISHED BY THE STRUCTURAL STEEL CONTRACTOR AND SET BY THE FOUNDATION CONTRACTOR.
   LOOSE BASE PLATES ARE TO BE FURNISHED AND SET BY THE STRUCTURAL STEEL CONTRACTOR AND GROUTED BY OTHERS. ALL ANCHOR BOLT LOCATIONS SHALL BE VERIFIED BY STRUCTURAL STEEL CONTRACTOR PRIOR TO ERECTION OF STEEL.
6. SHOP CONNECTIONS ARE TO BE WELDED OR BOLTED UNLESS NOTED.
7. FIELD CONNECTIONS FOR MAIN MEMBERS STRUTS AND PURLINS IN LINE WITH SWAY FRAMES OR FORMING PART OF THE BRACING SYSTEM OR WHERE PURLIN WEBS FRAME TO TRUSS VERTICAL OR BEAM, CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS.
8. FIELD CONNECTIONS FOR PURLINS, GIRTS AND SECONDARY MEMBERS NOT FORMING PART OF THE BRACING SYSTEM MAY BE MADE WITH MACHINE BOLTS.
9. ALL FIELD WELDING TO BE CONTINUOUS MINIMUM 1/4" WELDS OR AS REQUIRED AND SHALL BE EXECUTED BY A CERTIFIED WELDER TO THE HIGHEST STANDARDS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATIONS OF THE TOP OF STEEL UNLESS NOTED.
11. ALL CLIP ANGLES FOR ROD BRACING SHALL BE NOT LESS THAN 5/8" x 6" LONG MATERIAL FOR 3/4" ϕ RODS AND 3/4" x 5" LONG MATERIAL FOR 7/8" ϕ RODS. THE GAGE FOR ROD HOLES SHALL NOT EXCEED 2 1/4" UNLESS THE MATERIAL IS CORRESPONDINGLY THICKENED.
12. END WORKING POINTS OF TRUSSES AT SUPPORTS CAN BE AT THE FACE OF COLUMN FLANGES WHERE TWO OPPOSITE TRUSS REACTIONS ARE EQUAL. WHEN REACTIONS AT SUPPORTS ARE NOT BALANCED, END WORKING POINTS OF TRUSSES ARE TO BE AT CENTER LINE OF COLUMNS. CONNECT BOTH LEGS OF BOTTOM CHORD MEMBERS TO SUPPORTING MEMBERS OR COLUMNS. WHERE DIFFERENCE IN REACTIONS AT COL. FLANGES IS LESS THAN 15%, THE TRUSSES MAY HAVE WORKING POINTS AT THE FACE OF THE COL. FLANGES.
13. BOTTOM CHORD STRUTS PERPENDICULAR TO TRUSSES AND BOTTOM CHORD OF SWAY FRAMES ARE TO HAVE BOTH LEGS CONNECTED TO TRUSSES OR COLUMNS. GUSSET PLATES ARE TO BE WELDED TO BOTTOM CHORD OF TRUSSES AND BOLTED TO COLUMN, STRUTS OR SWAY FRAME.
14. MINIMUM END CONNECTION FOR ANY TRUSS WEB MEMBER SHOULD BE CAPABLE OF CARRYING MINIMUM 26K. MINIMUM END CONNECTION FOR ANY SWAY FRAME WEB MEMBER SHOULD BE CAPABLE OF CARRYING MINIMUM 20K. MINIMUM END CONNECTION FOR BOTTOM OR TOP CHORD, TRUSS MEMBER SHOULD BE CAPABLE OF CARRYING MINIMUM 38K. (TENSION OR COMPRESSION HORIZONTAL FORCE) END REACTIONS OF TRUSSES SHALL BE MADE WITH NOT LESS THAN 3 BOLTS IN DOUBLE SHEAR (SEE TRUSS DIAGRAMS OR MINIMUM TRUSS REACTION OF 38K.)
15. STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE GUSSET PLATES OF SAME THICKNESS AS STEM OF TEE AT TOP OR BOTTOM CHORD OF TRUSSES AS REQUIRED FOR VERTICAL STEM SHEAR OF CHORD MEMBER AND TO DEVELOP CONNECTION OF WEB MEMBERS. GUSSET PLATES SHALL HAVE FULL BUTT WELD TO TOP OR BOTTOM CHORD OF TRUSSES. WELD SHALL BE GROUND SMOOTH UNDER ALL CLIP ANGLES AND TRUSS WEB MEMBERS. ALSO, SEE ITEM #25.
16. GUSSET PLATES FOR SWAY FRAMES AND BRACING SHALL BE NOT LESS THAN 5/16" THICK MATERIAL. ALSO, SEE ITEM #25.
17. PROVIDE CLIP ANGLES AT STARRED VERTICALS WHERE CARRYING TRUSSES FRAME TO JACK TRUSSES, PURLINS OR FLOOR BEAMS FRAME TO STARRED VERTICALS. CLIP ANGLES TO BE OF SAME THICKNESS AS STARRED VERTICALS OR 3/8" MAXIMUM THICKNESS.
18. TYPICAL DETAILS, CONNECTIONS, BASE PLATES, ETC. SHOWN ON ANY DRAWING SHALL BE APPLICABLE TO THE ENTIRE JOB UNLESS NOTED.
19. THE SEQUENCE OF NEW WORK MUST BE COORDINATED WITH THE OWNER - SEE SPECIFICATIONS.
20. EXTEND DOOR JAMBS MIN. 4" BELOW FLOOR LINE OR AS SHOWN ON ARCH. DWGS. (u.n.) PROVIDE L-3½ x 2½ x 3/8 L.L.H. MIN. 6" LONG AT BOTTOM OF FA. SIDE OF BOXED DOOR JAMBS. DRILL HOLE IN ANGLE FOR 5/8"ϕ x 11'-3" ANCHOR BOLT (LENGTH INCLUDES 3" HOOK). ANGLES AND ANCHOR BOLTS TO BE FURNISHED BY STRUCTURAL STEEL CONTRACTOR AND SET BY FOUNDATION CONTRACTOR.
21. WHERE COLUMNS BEAR ON TOP CHORD OF TRUSSES EXTEND VERTICAL WEB MEMBERS TO OUTSTANDING LEGS OF TOP CHORD MEMBERS AND GRIND TO BEAR AGAINST OUTSTANDING LEGS OF TOP CHORD MEMBERS.
22. THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER ALIGNMENT OF GIRTS AS SHOWN ON ARCHITECTURAL DRAWINGS.
23. THE MIN. THICKNESS OF ANGLES FOR BEAM CONNECTION SHALL BE AS FOLLOWS:
    FOR W16 OR LESS USE MIN. 5/16"
    FOR W18 TO W24 USE MIN. 3/8"
    FOR W27 & LARGER USE MIN. ½"
    ALL BMS. FRAMING TO COL'S. (EXCEPT SWAY FRAMES) TO HAVE IN ADDITION TO WEB CONNECTION AS CALLED FOR IN ITEM #2 ABOVE TO HAVE SEAT ANGLES AS FOLLOWS:
    FOR W12 OR SMALLER 1-L-4 x 4 x ¼
    FOR W14 TO W18 1-L-6 x 4 x 3/8 + 1-3/8" STIFFENER
    FOR W21 OR LARGER 1-L-8 x 4 x ½ + 1-½" STIFFENER
24. ALL TRUSSES ARE DESIGNED WITH NO HOLES OUT OF TENSION MEMBERS UNLESS OTHERWISE NOTED. HOLES MAY BE PUNCHED IN BOTTOM CHORD MEMBERS IF PROPER LOCAL REINFORCEMENT IS PROVIDED IN PLACES WHERE SUCH HOLES ARE PUNCHED OR DRILLED. SUCH REINFORCEMENT SHALL EXTEND 12" BEYOND THE HOLE AND BE FULLY DEVELOPED BY WELDING.
25. WHERE BOTTOM CHORD OF TRUSSES, SWAY FRAMES OR STRUTS CONSISTS OF TWO CHANNELS (TEE), THE CONTRACTOR SHALL DEVELOP END CONNECTION OF BOTTOM CHORD CHANNELS TO SUPPORTING MEMBERS FOR MINIMUM VERTICAL LOAD OF 20K OR AS CALLED FOR IN ITEMS #12, #13, & #14 OF GENERAL NOTES, WHICHEVER IS GREATER. THE THICKNESS OF GUSSET PLATES TO BE MINIMUM 3/8" THICK MATERIAL UNLESS OTHERWISE CALLED FOR ON TRUSS DIAGRAM, OR MATERIAL SCHEDULE, OR WEB THICKNESS OF TEE OF TOP CHORD MEMBER, WHICHEVER IS GREATER UNLESS OTHERWISE APPROVED BY THE ENGINEER.
26. WHERE STRUTS OR BOTTOM CHORD OF SWAY FRAMES CONSIST OF WIDE FLANGE SECTIONS, IN ADDITION TO A STRUT CONNECTION, PROVIDE A.I.S.C. STANDARD TWO ANGLE WEB CONNECTION CAPABLE OF SUPPORTING 50% OF THE TOTAL CAPACITY TABULATED IN THE "ALLOWABLE LOADS ON BEAMS" UNLESS OTHERWISE NOTED.
27. ALL CONNECTIONS OF TRUSSES TO SUPPORTING MEMBERS SHALL BE MADE WITH MINIMUM 3/4"ϕ A-325 BOLTS.
28. WHERE PURLINS OR BEAMS ARE SUPPORTED BELOW BY TRUSSES OR GIRDERS AND THE DEPTH OF PURLINS OR BEAMS VARIES ALONG THE SPAN OF TRUSSES OR GIRDERS THE CONTRACTOR SHALL COPE PURLINS AND BEAMS AS REQUIRED, OR SHALL PROVIDE SHIMS AS REQUIRED. THE TOP OF ALL PURLINGS TO BE OF UNIFORM SLOPE AS SHOWN ON ARCHITECTURAL DWG'S. AND TOP OF BEAMS TO BE AT CONSTANT ELEVATION.
29. PRIOR TO PREPARING SHOP DWGS., STRUCTURAL STEEL CONTRACTOR SHALL VERIFY WITH THE OWNER SIZES AND THE LOCATION OF THE STRUCTURALLY FRAMED OPENINGS.
30. THE BUILDING IS DESIGNED FOR FUTURE EXPANSION IN ALL DIRECTIONS AROUND THE PERIMITER OF THE BUILDING. THE STRUCTURAL STEEL CONTRACTOR SHALL MAKE ALL NECESSARY PROVISION IN THE PRESENT STEEL, IN COLUMNS, TRUSSES AND PURLINS FOR THE FUTURE EXPANSION INCLUDING CLIP ANGLES, HOLES, ETC., AS REQUIRED FOR EXTENSION OF SIMILAR FRAMING. THE EXPANSION JOINTS IN THE FUTURE ADDITIONS SHALL BE IN LINE WITH THE EXPANSION JOINTS IN THE PRESENT BUILDING.
31. ALL GIRTS AT CORNERS TO BE CONNECTED TO COLUMN AND TO EACH OTHER. THE GIRT "G1" SHALL BE ALIGNED ALL AROUND THE BUILDING FOR THE SAME AND CONSTANT ELEVATION.
32. THE CONTRACTOR SHALL BOX ROOF SUPPORTING COLUMNS WHERE SHOWN AT BOTTOM CHORD OF TRUSSES AND SHALL BOX COLUMNS ON EACH SIDE AT TOP AND BOTTOM CHORDS OF TRUSSES OR BEAMS AT COLUMNS SUPPORTING SUBSTATION FLOORS. MEZZANINE FLOORS, FLOOR OF CONVEYOR ENCLOSURE, CONCRETE ROOF AREA AND OTHER 2ND LEVEL AREAS AT ROOF CONDUCTOR LOCATIONS ONLY. FOR LOCATION OF BOXED COLUMNS SEE STRUCTURAL DRAWINGS.
33. ALL COLUMNS SHALL BE ALIGNED AND PLUMBED WITHIN THE BOUNDARY OF EACH EXPANSION JOINT. AFTER COMPLETION OF EACH AREA THE CONTRACTOR SHALL PROVIDE TEMPORARY VERTICAL BRACING AS REQUIRED.
34. THE CONTRACTOR SHALL USE SINGLE SPAN PURLINS.
35. WHERE COLUMN SPLICES ARE SHOWN OR WHERE COLUMN SIZE VARIES ALONG ITS LENGTH, THE CONTRACTOR MAY ELIMINATE THE SPLICE AND EXTEND LOWER COLUMN FULL HEIGHT.
36. THE STRUCTURAL CONTRACTOR MAY SUGGEST COST REDUCTION CHANGES TO DETAILS OR OTHER COST REDUCTION CHANGES SUBJECT TO WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER AND PRIOR TO AWARD OF CONTRACT.
37. WHERE THE TRUSS LOCATIONS ARE SHOWN ON THE TRUSS DIAGRAMS, THEY DO NOT NECESSARILY MEAN THAT THESE TRUSSES ARE LIMITED TO THOSE LOCATIONS. THE CONTRACTOR SHALL IDENTIFY THE TRUSS MARK AND VERIFY LOCATIONS FROM THE TOP CHORD FRAMING PLANS.
38. IN PROVIDING COLUMNS AND BASE PLATES, THE CONTRACTOR SHALL BE GOVERNED BY THE TYPE OF COLUMN AS SHOWN ON THE MASTER PLAN. IF THERE IS A DISCREPANCY BETWEEN THE MASTER COLUMN LOCATION PLAN AND THE COLUMN SCHEDULE THE CONTRACTOR SHALL BID ON THE LARGER COLUMN SIZE AND VERIFY THE SIZE WITH THE STRUCTURAL ENGINEER.
39. WHERE THE STUB COLUMNS ARE SHOWN ON THE FRAMING PLANS OR ELEVATIONS AND THE SIZE OF THE STUB COLUMN IS NOT CALLED FOR, THE CONTRACTOR SHALL PROVIDE COLUMN "C4" AS CALLED FOR IN MATERIAL SCHEDULE.
40. THE FOLLOWING CAMBER SHALL BE PROVIDED FOR TRUSSES (UNLESS OTHERWISE NOTED):
    TRUSS SPAN 45'-0" - CAMBER 9/16" FOR TRUSSES 7'-9" OR LESS
    TRUSS SPAN 45'-0" - CAMBER 3/16" FOR TRUSSES 7'-10" TO 9'-5"
    TRUSS SPAN 45'-0" - NO CAMBER FOR TRUSSES 9'-6" OR DEEPER
41. WHERE FILL PLATES ARE USED AT TRUSS WEB MEMBERS, INCREASE THE WELD REQUIRED BY 33%.
42. ALL JACK TRUSSES THROUGHOUT THE ENTIRE JOB ARE TO HAVE THE TOP CHORDS RESTRAINED BY STRUTS "S1" AT 7'-6" (MAX.) EVEN IF THEY ARE NOT SHOWN ON THE PLAN. WHERE TOP CHORD IS RESTRAINED BY CONCRETE SLAB, "S1" STRUT MAY BE ELIMINATED.
43. ALL PURLINS THROUGHOUT THE ENTIRE JOB ARE "P1" SPACED @ 7'-6" (UNLESS OTHERWISE SHOWN OR CALLED ON ON DWGS.)
44. STRUCTURAL STEEL CONTRACTOR SHALL NOT INSTALL COLUMNS IN WET OR RAINY DAYS, DUE TO POSSIBLE PENETRATION OF WATER BELOW LINE STABILIZED SURFACE AT COLUMN POCKETS. SEE ALSO GENERAL NOTES ON SHEET C-1.
45. ALL BOXED DOOR JAMB SECTIONS FRAMING TO UNDERSIDE OF TRUSSES & BOXED DOOR HEADS FRAMING TO COLUMNS ARE TO HAVE A MIN. 1/4" THICK CLOSURE PLATES.

GENERAL NOTES FOR SUPPORTED CONCRETE SLAB ON STEEL

1. ALL CONCRETE TO HAVE 4,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL, UNLESS OTHERWISE NOTED, IS TO CONFORM WITH THE LATEST ISSUE OF THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ISSUED BY A.C.I.
3. BEND TOP BARS DOWN AT NON-CONTINUOUS EDGES OF SLABS.
4. CONCRETE PROTECTION COVERING FOR REINFORCING TO BE NOT LESS THAN 3/4". UNLESS NOTED OTHERWISE.
5. PROVIDE 1-#4 CONTINUOUS HORIZONTAL BAR IN CURB AND PROVIDE #3 @ 18" O.C. DOWELS TO CURB. FOR OTHER DETAILS, SEE ARCH. DRAWINGS.
6. LAP BOTTOM REINFORCING 1'-0" AT SUPPORTS AND LAP TOP REINFORCING 1'-6" AT MID-SPAN. UNLESS NOTED OTHERWISE.
7. TEMPERATURE REINF. TO BE AT BOTTOM OF SLAB THROUGHOUT. ADD TEMPERATURE REINFORCING THROUGHOUT AT TOP OF SLAB FOR CONTINUOUS STEEL REINFORCING. WHERE TOP STEEL IS NOT CONTINUOUS, ADD TEMPERATURE REINFORCING AT TOP FOR LENGTH OF TOP MAIN REINFORCING.
8. IN ADDITION TO REINFORCING SHOWN PROVIDE:
   A. #6 @ 12" x 6'-0" LG. IN TOP OF SLAB OVER AND AT RIGHT ANGLES TO ALL TRUSSES, WALLS, AND BEAMS THAT RUN PARALLEL TO MAIN REINFORCING BARS.
   B. 1 - #5 x 4'-0" LG. IN TOP OF SLAB AND DIAGONALLY ACROSS ALL CORNERS OF ALL FLOOR OPENINGS.
   C. AT UNSUPPORTED SIDES OF OPENINGS, PROVIDE 4 EXTRA REINF. BARS OF SAME SIZE AS MAIN REINF. (2 BOTTOM, 2 TOP) @ 4" o/c PARALLEL TO MAIN REINF. AND ADJACENT TO EACH SIDE OF OPENING, AS WELL AS 2 EXTRA #5 @ 4" o/c STRAIGHT BARS IN BOTTOM OF SLAB ON EACH SIDE OF OPENING, AT RIGHT ANGLES TO MAIN REINF. OF LENGTH 3'-0" LONGER THAN SIZE OF OPENING.
   D. AT SIDES OF OPENINGS SUPPORTED BY STEEL FRAMING, PROVIDE 1 - #6 STRAIGHT BAR IN TOP OF SLAB OF LENGTH 3'-0" LONGER THAN SIZE OF OPENING.
9. ALL SUPPORTED CONCRETE SLABS ON MEZZ. AND ROOF INCLUDING REINFORCING BARS TO BE BY SUPPORTED SLAB ON STEEL CONTRACTOR.
10. TOILET SLAB AREA, OR OTHER DEPRESSED SLAB AREAS TO EXTEND BEYOND THE BOUNDRIES OF THE AREA TO THE NEAREST STRUCTURAL STEEL SUPPORT.
11. IN AREAS WHERE THE TOP OF SLAB, IS LOWER THAN THE FINISHED FLOOR AND NO FLOOR FINISH IS CALLED FOR, APPROPRIATE THICKNESS OF CONCRETE FILL SHALL BE PROVIDED AS REQUIRED. FOR ADDITIONAL DETAILS AND INFORMATION SEE ARCHITECTURAL DRAWINGS.
12. THE ARCHITECTURAL TRADE CONTRACTOR SHALL PROVIDE 2" OR 1½" THICK CONCRETE FILL ABOVE WATERPROOF MEMBRANE ABOVE THE SLAB IN AREAS SHOWN OR CALLED FOR ON ARCHITECTURAL DRAWINGS. CONCRETE FILL ABOVE WATERPROOF MEMBRANE AND CONCRETE FILL AS CALLED FOR IN ITEM #11 OF GENERAL NOTES SHALL BE REINFORCED WITH WWF 4 x 4 W2.5 x W2.5 PLACED 3/4" BELOW TOP OF CONCRETE FILL.
13. REINFORCING STEEL, TO BE USED FOR SUPPORTED CONCRETE SLAB SHALL BE GRADE 60 STEEL: ALLOWABLE 24 KSI. YIELD 60 KSI, EXCEPT TIES & STIRRUPS TO BE GRADE 40.
14. REFER TO MECHANICAL, ELECTRICAL, ARCHITECTURAL AND EQUIPMENT CONTRACTORS DRAWINGS BEFORE PLACING CONCRETE SLAB FOR SIZES AND LOCATION OF UNFRAMED OR FRAMED SLAB OPENINGS, FOR LOCATION OF PIPE SLEEVES OR PIPE INSERTS, CURB CHANNELS, CONCRETE PADS AND ALL OTHER EMBEDDED ITEMS.
15. ALL SLABS ON MEZZANINES AND ROOF ARE ON PERMANENT METAL FORMS UNLESS OTHERWISE NOTED ON SLAB SCHEDULE. PERMANENT METAL FORMS BY METAL DECK CONTRACTOR.



SLAB ON PERMANENT FORMS — ON TEMPORARY FORMS

TYPICAL SLAB DETAILS

SUPPORTED SLAB SCHEDULE

SLAB IN AREA	THICKNESS	MAIN REINFORCING BOTT. STEEL CONT.	MAIN REINFORCING TOP STEEL CONT.	TEMPERATURE REINFORCING BOTH T.&B.	REMARKS	DESIGN LIVE LD. P.S.F.
"A"	4½"	#4@6"	#4@6"	#3@12"	"OILETS	125
"B"	6½"	#4@6"	#4@6"	#3@12"	OFFICE MEZZANINE DEPRESSED AT TOILETS	125
"C"	6"	#5@6"	#5@6"	#4@12"	WELDER WATER PLATFORM	500
"D"	6"	#5@6"	#5@6"	#3@12"	TRANSFORMER RM.	500
"E"	6½"	#5@6"	#5@6"	#3@12" TOP; #3@12" (TOP)	CONCRETE ROOF	150 OR 35# CONC. + 20# LIFT TRUCK
"F"	6½"	#5@6"	#5@6"	#3@12"	TRANSF. RM. Nº 7	500

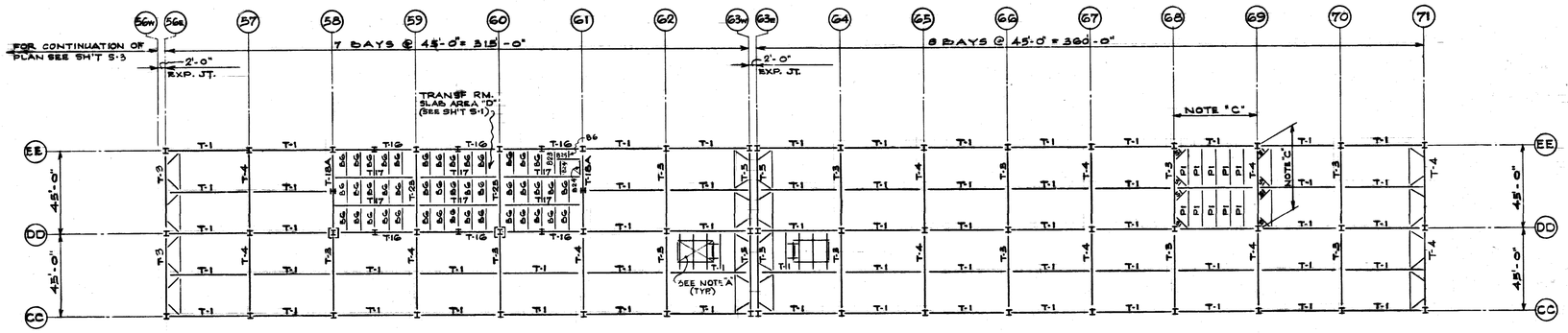
MATERIAL SCHEDULES

MARK	SHAPE	SIZE	REMARKS
G1		C 12 x 20.7	CONN. TO B.C. OF TRUSS @ EA. PANEL PT. & TO COL. W/ ⅜" ϕ
G2		L-6 x 4 x 7/8	CLIP TO TRUSS VERTICALS
G3		WT 5 x 10.5 + L-3 x 2 x ¼	PROVIDE ⅜" ϕ ATJD BOLTS @ 2'-0" o/c STAGGER + ANGLE @ T.C. CONN. TO EA. TRUSS VERT. & TO COL. W/ ⅜" ϕ, 1½" x 3½" ϕ H.S. BOLTS. (SEE ARCH. DWGS.)
G4		L-6 x 4 x 5/16 + L-3 x 2 x ¼ POST	
G5		2-C 9 x 13.4	CONN. BOTH C'S TO COL.
G6		C 9 x 13.4 + L-3½ x 3 x ¼ (L.L.H.)	OMIT L @ DOORS
G7		C 12 x 20.7 + L-3½ x 2 x ¼	PROVIDE 1-⅜" ϕ STUD @ 8'-0" o/c + 1-⅜" ϕ STUD @ C.B. REMARKS FOR G4 & G5
G8		C 9 x 13.4 + L-3½ x 3 x ¼	PROVIDE 1-⅜" ϕ STUD @ 2'-6" o/c
G9		C 9 x 13.4	CONN. TO G5 W/ ⅜" ϕ HANGERS @ MAX. 7'-6" o/c
G10		2-C 15 x 33.9	CONN. BOTH C'S TO COL.
G11		C 15 x 33.9 + ¼ PL.	
G12		C 9 x 13.4 + ¼ PL.	PROVIDE ⅜" ϕ STUDS @ 2'-6" o/c
G13		L-4 x 3 x 5/16	(L.L.W.) CONN. TO BOTT. FLG. OF PDM.
G14		L-4 x 3 x 5/16	(L.L.H.) CLIP TO TRUSS OR PDM. @ 7'-6" MAX.
G15		L-6 x 3½ x 5/16	CONN. TO PDM. @ 7'-6" o/c
G16		L-3½ x 3½ x 5/16	CONN. TO TRUSS @ 7'-6" o/c
G17		W 16 x 36 + ¼ PL. + L-3 x 3 x ¼	
G18		C 9 x 13.4 + ¼ PL. + L-3 x 2 x ¼	
G19		L-6 x 3½ x ⅜ + ⅜" ϕ STUDS @ 1'-6" o/c	(L.L.V.) CONN. TO PDM. OR TRUSS @ 7'-6" o/c
G20		BENT PL. 6½ x 2½ x ¼ (L.L.V.)	CONN. TO PDM. OR TRUSS @ 7'-6" o/c MAX.
G21		C 10 x 15.3	PROVIDE ⅜" ϕ AT 1'-0" - 5/16" @ 2'-6" o/c. CONN. TO DM. DELOW.
G22		C 8 x 11.5	
G23		C 9 x 13.4 + ¼ PL.	
G24		C 6 x 8.2 + ½" FILL PL. @ 7'-6" o/c	PROVIDE ⅜" ϕ STUDS x 6" LG. @ 3'-0" o/c @ EDGE & ⅜" ϕ STUDS @ 3'-6" o/c @ TOP.
G25		C 9 x 13.4 + ¼ PL.	
G26		2L-3½ x 3 x 5/16 + 3/16 PL.	CONN. TO G1 & T.C. OF TRUSS VERT. WITH 3/16" PL. @ 7'-6" o/c MAX.
G27		2-C 9 x 13.4 + L-3½ x 3 x 5/16 + 5/16 PL.	CONN. BOTH C'S TO COL.
G28		C 9 x 13.4 + L-3½ x 3 x 5/16 + 5/16 PL.	
G29		C 12 x 20.7 + L-3½ x 3 x 5/16 (L.L.H.)	
G30		C 12 x 20.7 + WT 4 x 5	PROVIDE ⅜" ϕ STUDS @ 2'-6" o.c.
G31		L-3½ x 3½ x 5/16	CONN. TO TRUSS VERT. @ PDM. @ 7'-6" o/c W/ 5/16" THK. MAT.
G32		L-3 x 3 x 5/16 + C 12 x 20.7	
G33		C 12 x 20.7	
G34		C 9 x 13.4 + ¼ PL.	
G35		C 12 x 20.7 + ¼ PL.	
G36		C 15 x 33.9	
G37		C 9 x 13.4 + ¼" PL.	
G38		2-C 9 x 13.4	
G39		2-C 12 x 20.7	CONN. BOTH C'S TO COL.
DH1		2-C 12 x 20.7 + ¼" PL. TOP + 5/16" PL. BOTT.	CONN. BOTH C'S & BOTH PL'S TO COL. OR D.J.
DH2		3-C 12 x 20.7 + 2-5/16" PL'S + STIFF. PL'S @ T.P. @ 3'-0"	do
DH3		2-C 12 x 20.7 + ¼ PL. TOP + 2-3½ x 3 x ¼ + 5/16" PL. BOTT.	do
DH4		2-C 9 x 13.4 + ¼ PL.	CONN. BOTH C'S TO COL. PL. @ OPNG. ONLY.
DH5		C 9 x 13.4 + ¼" PL.	CUT PL. @ OPNG.
DH6		2-C 12 x 20.7 + ¼" PL.	CONN. BOTH C'S TO COL. PL. @ OPNG. ONLY
DJ1		4 PL'S - ¼" THK. 4L-3 x 3 x 5/16	CONN. EA. PL. TO COL. @ 2'-0" (MAX.) ADD FILL PL. AS REQ'D.
DJ2		4 PL'S - 5/16" THK. + 4L-3 x 3 x 5/16	
DJ3		4-5/16" PL'S + 4L-3 x 3 x 5/16 + 2-¼" x 3" x ⅜	CONN. TO COL. @ 3'-0" MAX. ADD C 10 x 15.3 STIFF. @ 2'-0" o/c
DJ4		2L-3 x 3 x 5/16 + 2-5/16 PL. + C 10 x 15.3	
DJ5		2-C 12 x 20.7 + 2-5/16 PL.	CONN. TO COL. @ 2'-0 (MAX.)
DJ6		3L-3 x 3 x 5/16 + 2-5/16 PL.	
DJ7		2L-3 x 3 x 5/16 + 2-5/16 PL.	CONN. TO COL. @ 2'-0" (MAX. W/ L-3½ x 2½ x ¼ + FILL PL.
DJ8		3L-3 x 3 x 5/16 + 2-5/16" PL'S	CONN. TO COL. @ 2'-0 (MAX.) W/ 1L-3 x 3 x ¼ + ADD L'S FOR SUPPORT OF SIDING.
DJ10		2-C 15 x 20.7 + 2-5/16 PL. + L 3 x 3 x ¼	
DJ11		C 9 x 13.4 + ¼" PL.	
DJ12		4L-4 x 4 x ⅜ + 4-5/16" PL'S	ADD 1L-3 x 3 x ¼ AT SIDING AS REQ'D.
DJ13		8L-3 x 3 x 5/16 + 4-5/16" PL'S	CONN. TO COL. @ 2'-0" PROV. 2L-3 x 3 x ¼ STIFF. @ 4'-0" o/c

MARK	SHAPE	SIZE	REMARKS
P1	I	W 12 x 14	
P2	I	W 12 x 36	
P3	I	W 21 x 62	
P4	I	W 12 x 27	
P5	I	W 8 x 10	
P6	I	W 10 x 21	
P7	I	W 12 x 19	
P8	I	W 21 x 55	
P9	I	W 21 x 49	
P10	I	W 14 x 68	
P11	I	W 12 x 53	P-11 DESIGNED AS A HOIST BM W/20" ϕ CTR.
P12 P12A	I	W 10 x 15	CONN. TO P1 @ EA. END (FOR P12A ONLY)
P14	I	W 12 x 36	
D1	⊢ ⊣	WT 4 x 14	CONN. W/ 4-⅜" ϕ H.S.B. & 5/16" GUSS. PL. BA. END.
D2	⊤	2L-6 x 3½ x ⅜	CONN. W/ 6-⅜" ϕ H.S.B. & ⅜" GUSS. PL. BA. END.
D3	⊤	2L-4 x 3 x 5/16	PROVIDE ⅜ GUSSET PL. + 3-¾" ϕ H.S. BOLTS
D4	⊤	2L-3 x 2½ x ¼	PROVIDE ⅜ GUSSET PL. + 3-¾" ϕ H.S. BOLTS
C1	I	W 8 x 24	PROV. ⅜" x 9" x 1'-6" PL'S. CONN. TO T.C. OF TRUSS & BM. W/ 8-¾" ϕ H.S.B. SEE TYP. DETL.
C2	I	W 8 x 17	PROV. ⅜" x 10" x 1'-6" PL'S. & CAP PL.
C3	I	W 10 x 33	PROVIDE ⅜" x 11" x 1'-6" PL'S. & ⅜" ϕ H.S.B.
C4	I	W 8 x 31	PROVIDE ⅜" x 9" x 1'-6" PL'S. & 4-⅜" ϕ H.S.B.
C5	I	W 10 x 49	PROVIDE ⅜" x 11" x 1'-6" PL'S. & 4-⅜" ϕ H.S.B.
C6	I	W 12 x 65	
C7	I	W 12 x 53	
H1	⊥	2L-3½ x 3½ x ⅜	HANGER
H2	•	⅜" ϕ ROD	
HD1	T	5 15 x 50 + C 10 x 15.3	HOIST BM. 10-TON CAP.
KD1	⅃L	2L-6 x 4 x ⅜	SEE SECT. 1/S2
L1	⊥	WT 5 x 10.5	BOTT. CHORD BRACING USE MIN. 4-⅜" H.S.B.
L2	⊥	WT 5 x 8.5	do
L3	⊥	WT 7 x 15	do
L4	⅂	L-3 x 3 x ¼	
S1	⅂	L-3 x 3 x ¼	T.C. STRUT
S2	⊥	WT 6 x 13.5	B.C. STRUT
S3	I	W 10 x 33	B.C. STRUT
S4	I	W 10 x 25	B.C. STRUT
S5	⅃L	2L-3 x 2½ x ¼	
S6	⅂	L 3 x 3 x ¼	CONN. TO BOTT. FLANGE OF PURLINS
EJ1	⅃L	L-3½ x 3 x 5/16 + 1L-3½ x ¼ POSTS	PROVIDE ⅜" ϕ STUD PL'S @ 2'-0" o/c + PUST @ 7'-6" o/c CONN. TO BALK PURLIN OR BA. TIE-LGS FRAME, PT. & COL. WITH ¼" PL. & 2-⅜" ϕ H.S.B. (SEE ARCH. DWG.)

MARK	SHAPE	SIZE	REMARKS
B1	I	W 10 x 27	PROVIDE 2-⅜" ϕ STUDS @ 2'-0" o/c STAGGERED.
B2	I	W 14 x 26	
B3	I	W 27 x 114	
B4	I	W 12 x 36	
B5	I	W 16 x 31	
B6	I	W 18 x 45	
B7	I	W 30 x 124	
B8	I	W 16 x 40	
B9	I	W 14 x 43	
B10	I	W 16 x 64	
B11	⊥	W 8 x 24 + C 10 x 15.3	VERIFY LOCATION OF BM. WITH ELEV. CONTL.
B12	I	W 18 x 50	
B13	I	W 36 x 150	
B14	I	W 30 x 116	
B15	I	W 12 x 16.5	
B16	I	W 14 x 61	
B17	I	W 24 x 55	
B18	I	W 33 x 118	
B19	I	W 33 x 130	
B20	⊡	W 12 x 58 + W 18 x 45 + C 12 x 20.7 + 2-¼ PL'S	CONN. CHANNEL, BMS. & PLS TO COLS. & BMS
B21	I	W 27 x 94	
B22	I	W 36 x 170	
B23	I	W 18 x 55	
B24	I	W 8 x 17	
B25	I	W 12 x 27	
B26	I	W 10 x 21	
B27	I	W 27 x 145	
B28	I	W 36 x 182	
B29	I	W 36 x 260	
B30	I	W 36 x 194	
B31	I	W 36 x 280	
B32	I	W 14 x 30	5/16" PL. @ ELEVATOR ONLY
B33	I	W 27 x 177	
B34	I	W 21 x 55	
B35	I	W 21 x 55 + 5/16" PL.	5/16" PL. @ ELEV. ONLY
B36	I	W 27 x 160	
B37	I	W 21 x 68	
B38	I	W 27 x 177 + 5/16 PL.	5/16" PL. @ ELEV. ONLY.
B39	E	C 12 x 20.7	PROVIDE ⅜"

PROJECT NO. SHEET NO.

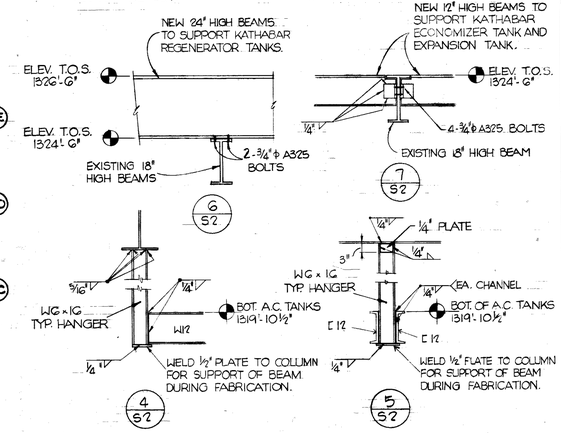


PARTIAL TOP CHORD ROOF FRAMING PLAN

1/32" = 1'-0"

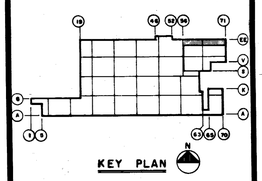
NOTE "A" AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A". SEE ENLARGED FRAMING PLAN ON SH'T S-10 (SEE ARCH. DRW'GS ALSO).

NOTE "C" TYP. BAY REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED).

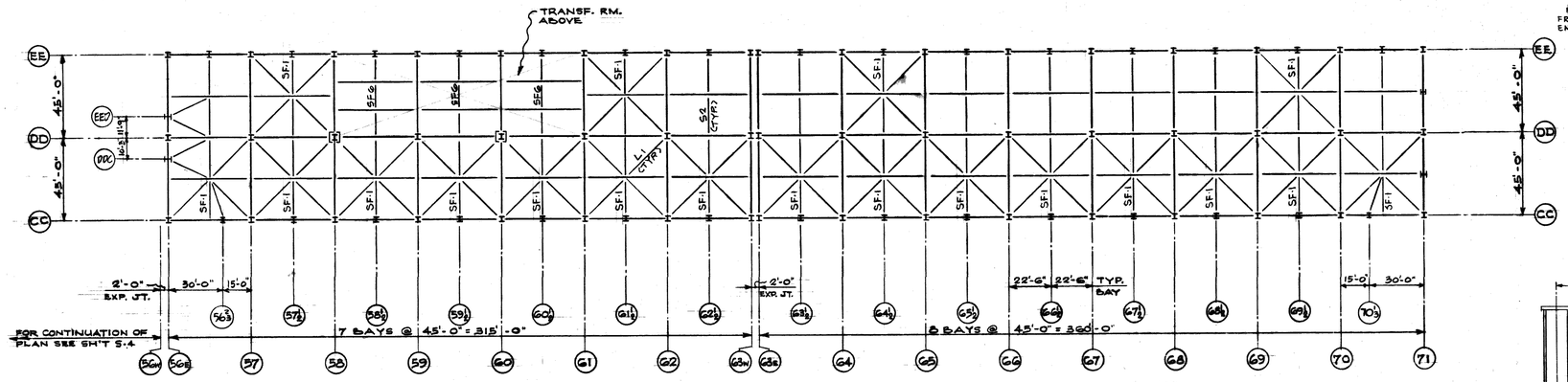


DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL. BID		
3-23-77	PRIMS NO. 115	ELECT REF	
3-21-77	CAISSON REF.		
4-7-77	MST. ROOF DECK, MST.	SIDING, PRECAST	PARTIELS REF.
4-18-77	FIRE PROTECTION	BID REF.	
4-23-77	COND. PLENUM	BID REF.	
4-23-77	EXT. FL. COND.	BID REF.	
5-2-77	SUPPORTED SLAB #2		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-29-77	PAINTING & FINISHING	REF	
5-18-77	EXCAVATION & FOUNDATION		

* NOTE: QMAD CONTRACT - BINKS #CC-110-77PE



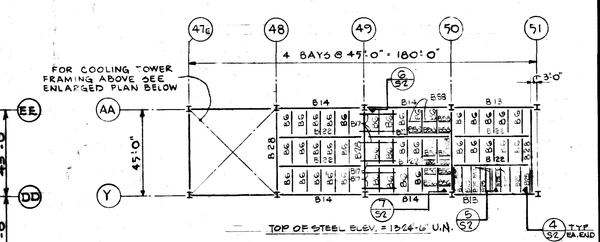
KEY PLAN



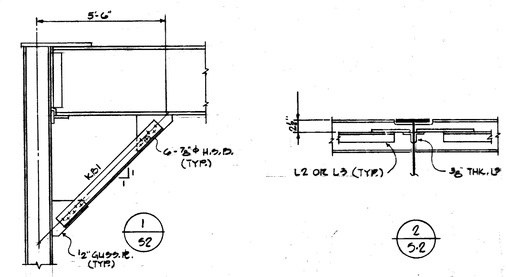
PARTIAL BOTTOM CHORD ROOF FRAMING PLAN

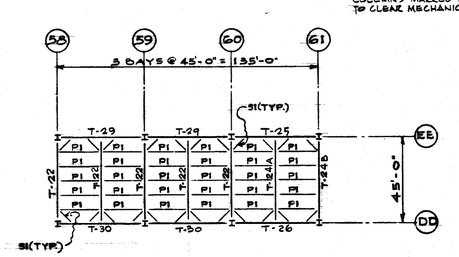
1/32" = 1'-0"

NOTE: FOR ALL TRUSS MARKS SEE TOP CHORD FRAMING PLAN ON THIS SHEET.
ALL STRUTS ARE "S2" (UNLESS NOTED.)
ALL DIAGONAL BRACING "L1" (UNLESS NOTED.)
COLUMNS MARKED THUS [X] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMN REQ'D TO CLEAR MECHANICAL PIPING. SEE TYP. DETAIL ON SH'T S-2A.

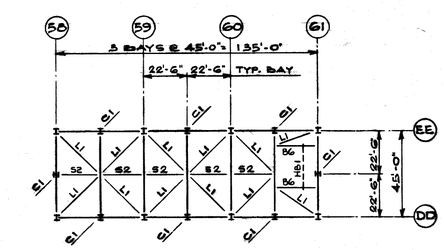


GRILLAGE FRAMING PLAN





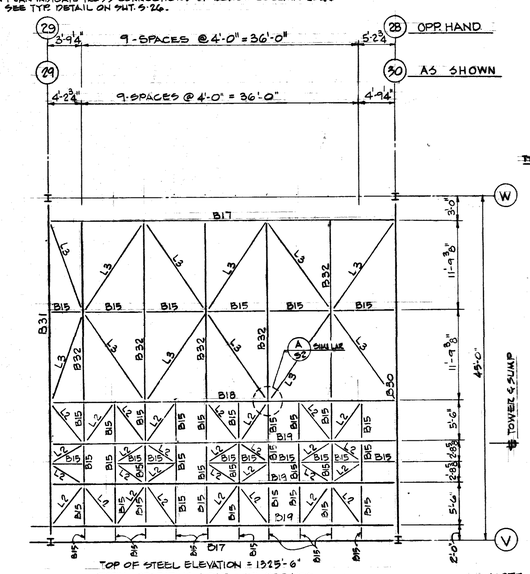
TOP CHORD



BOTTOM CHORD

TRANSFORMER ROOM ROOF FRAMING PLANS

1/32" = 1'-0"



TOP OF STEEL ELEVATION = 1325'-6"
TOTAL OPERATING LOAD = 115,000 LDS.

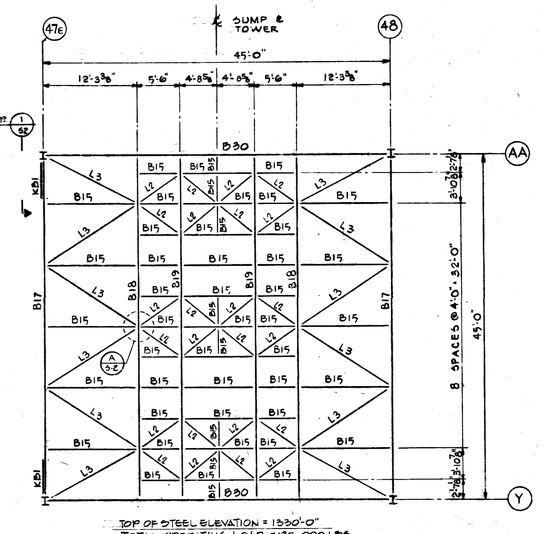
COOLING TOWER GRILLAGE FRAMING PLAN

1/8" = 1'-0"

NOTE

ALL COOLING TOWER DIMENSIONS MUST BE VERIFIED WITH EQUIPMENT CONTR. PRIOR TO FABRICATING SHOP DWG'S.

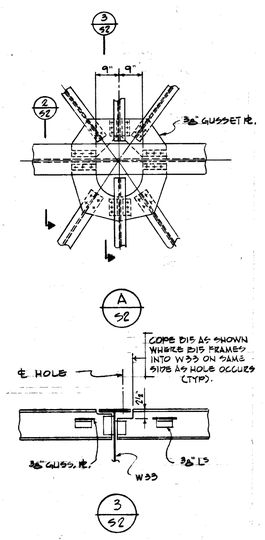
ALL HOLES WHICH MAY BE REQ'D IN BMS SIZE & LOCATIONS MUST BE VERIFIED WITH EQUIPMENT CONTR. (SEE 3/S2)



TOP OF STEEL ELEVATION = 1330'-0"
TOTAL OPERATING LOAD = 135,000 LDS.

COOLING TOWER GRILLAGE FRAMING PLAN

1/8" = 1'-0"



NO.	DATE	BY	APPROVAL	APPROVAL
141	5-5-78	DG		
61	7-7-77	E.K.		
49	7-18-77	A.C.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

ARGONAUT — PLANT ENGINEERING AND CONSTRUCTION — MANUFACTURING STAFF — GENERAL MOTORS CORPORATION

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY **G M ASSEMBLY DIVISION**

GENERAL MOTORS CORPORATION — OKLAHOMA CITY — OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLANS AREA NO. 1

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE 3-8-77

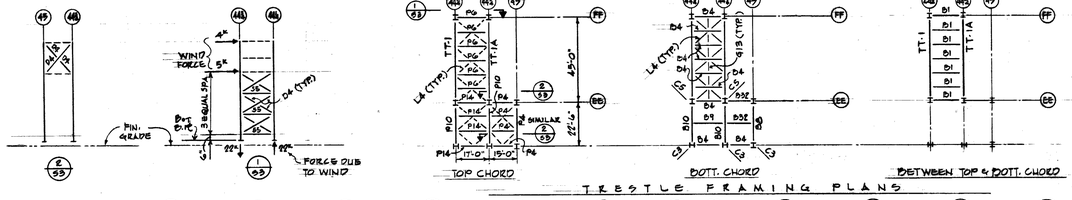
DRAWN BY R. NAGY

JOB CAPT. E. KUCZYNSKI

SHEET NUMBER: S-2

ARGO 115 REV. 12-69 K&E 17 0132 2-74 1790

PROJECT NO. SHEET NO.



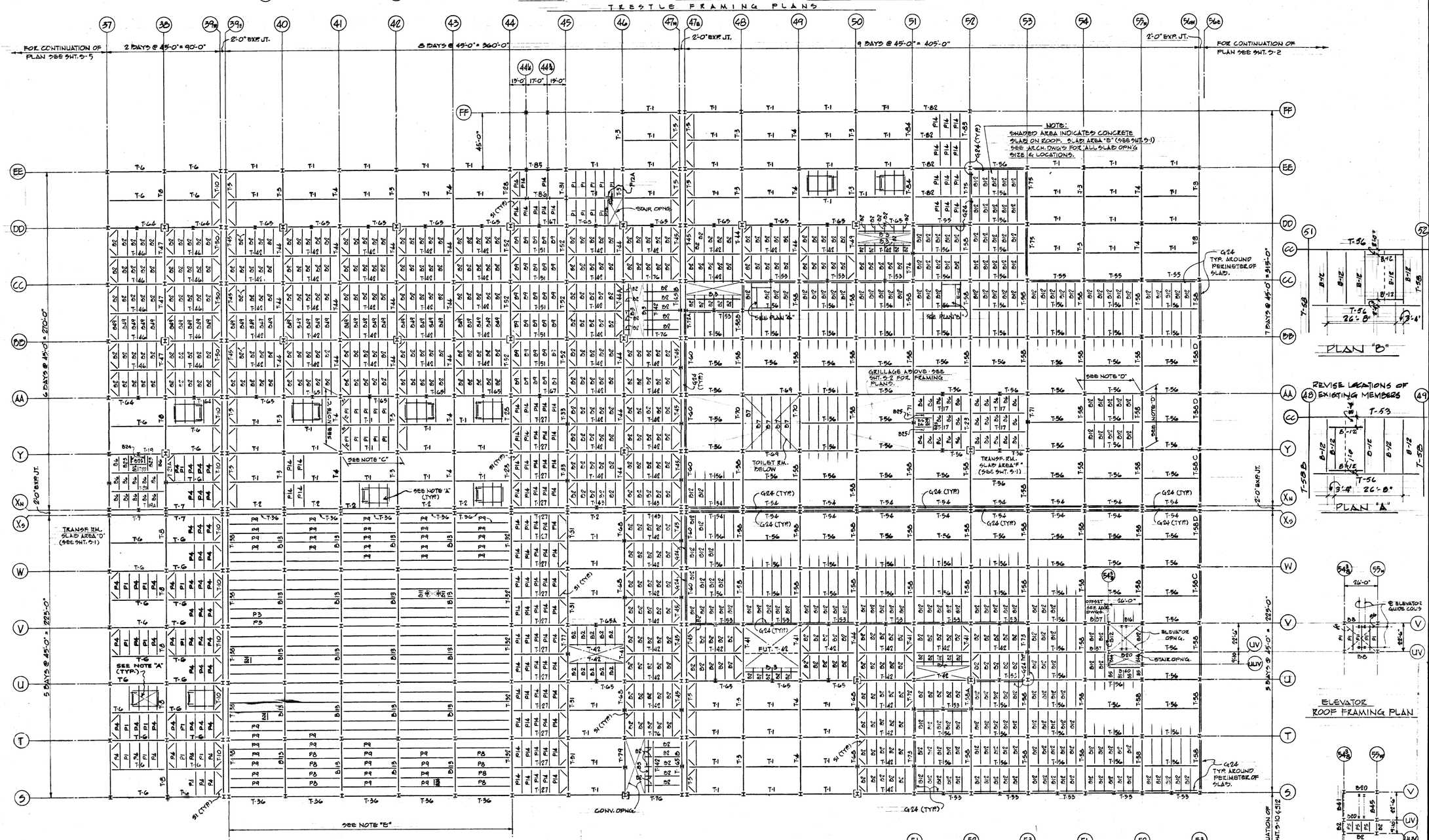
TRESTLE FRAMING PLANS

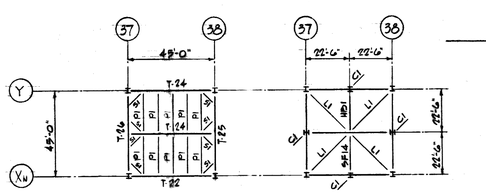
NOTE "A" AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" · SEE ENLARGED FRAMING PLAN ON SHT. S-10. (SEE ARCH. DWG'S ALSO).

NOTE "C" TYPICAL DAY · REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED).

NOTE "D" TYPICAL DAY · REPEAT B12 IN ALL BAYS BETWEEN COLUMN LINES "47G" THRU "50W" & "Y" THRU "CC", LINES "51" THRU "50W" & "S" THRU "TU", LINES "52" THRU "54" & "TU" THRU "U", LINES "53" THRU "54" & "U" THRU "V" (UNLESS NOTED).

NOTE "E" TYPICAL DAY · REPEAT P9 IN ALL BAYS BETWEEN COLUMN LINES "39E" THRU "44" & "S" THRU "X6". UNLESS OTHERWISE NOTED.



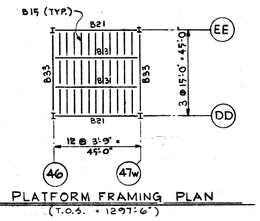


TRANSFORMER ROOM ROOF FRAMING PLANS

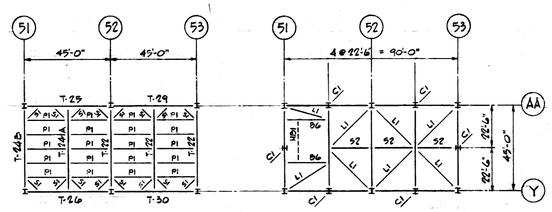
PARTIAL TOP CHORD ROOF FRAMING PLAN

SCALE: 1/32" = 1'-0"

NOTE: COLUMNS MARKED THUS ⊠ ON THE PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMN REQUIRED TO CLEAR MECHANICAL PIPING. SEE TYPICAL DETAIL SH'T. S-26.



PLATFORM FRAMING PLAN
(T.O.S. = 1297'-6")



TRANSFORMER ROOM ROOF FRAMING PLANS
SCALE: 1/32" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	FLUME MECH	& ELECT REF.	
3-21-77	CAISSON REF.		
4-7-77	MBT. ROOF DECK,	MBT. SIDING, PRECAST MASS. REF.	
4-18-77	FIRE PROTECTION BID REF.		
4-25-77	CONC. PLENUM	BID REF.	
4-25-77	1ST. FL. CONC.	BID REF.	
5-20-77	SUPPORTED SLAB BID		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PLUMBING & PLUMBING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
161	5-3-78	DG		
EFO 182	2-2-78	RM		
EFO 168	12-20-77	RM		
88	9-9-77	E.K.		
62	7-21-77	A.C.		
61	7-7-77	E.K.		
49	7-18-77	A.C.		
25	6-9-77	E.K.		
R.C. #9	4-15-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

485 WEST MILWAUKEE AVENUE • DETROIT, MICHIGAN

ARCHITECTURE & ENGINEERING · REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLANS AREA NO. 2

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P.E. & C. PROJECT NUMBER

DATE 5-8-77

DRAWN BY ALGINI

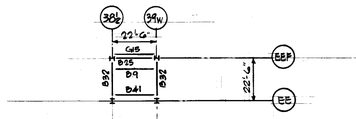
JOB CAPT. KUCZYNSKI

S-3

SHEET NUMBER

MAR 5 1978

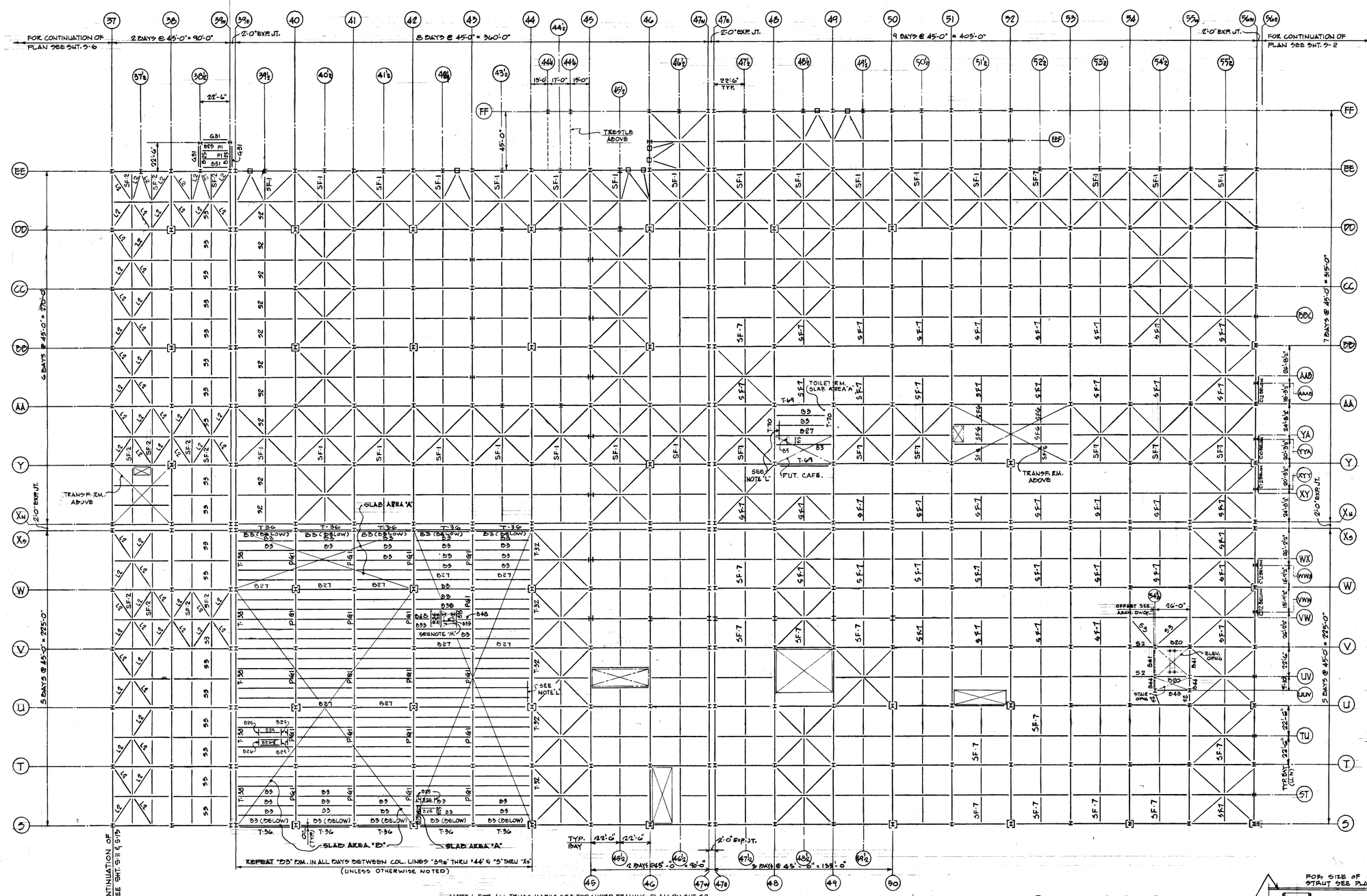
PROJECT NO. SHEET NO.



EMPLOYEE ENTRANCE
SOFFIT FRAMING PLAN

NOTE "L" G19 GIRT AROUND PERIMETER OF TOILET RM. OR CAFE. SEE ARCH. DWG'S FOR LOCATION & EXTENT OF G19.

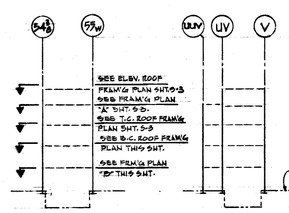
NOTE "M" ELEVATOR GUIDE COLUMNS - SEE COL. SCHED. FOR SIZES. SEE TYP. SECT. ON SHT. 5-9



NOTE: FOR ALL TRUSS MARKS SEE TOP CHORD FRAMING PLAN ON SHT. 5-3
ALL STRUTS EAST OF COL. LINE "39e" ARE "S2" (UNLESS NOTED).
ALL STRUTS WEST OF COL. LINE "34w" ARE "S3" (UNLESS NOTED).
ALL DIAGONAL BRACING "L1" (UNLESS NOTED)
COLUMNS MARKED THUS ▥ ON THE PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMN REQUIRED TO CLEAR MECHANICAL PIPING. SEE TYPICAL DETAIL SH'T 5-26

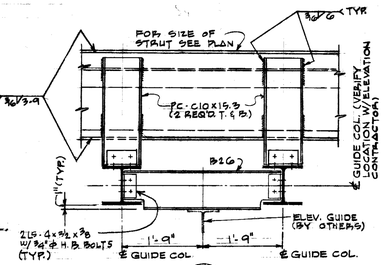
PARTIAL BOTTOM CHORD ROOF FRAMING PLAN

SCALE: 1/32" = 1'-0"



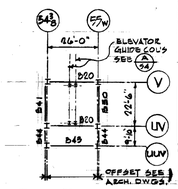
SOUTH (AS SHOWN) EAST (AS SHOWN)
NORTH (OPP. HAND) WEST (OPP. HAND)

ELEVATOR & STAIR ELEVATIONS

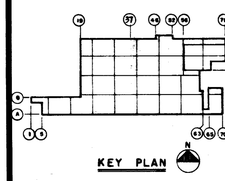


NOTE: VERIFY DIMENSIONS WITH ELEVATOR CONTRACTOR. FOR SIZE OF ELEVATOR GUIDE COLS. SEE COL. SCHEDULE SHT. 5-24.

A 5-4 PLAN DETAIL SCALE: 3/4"=1'-0"



ELEVATOR & STAIR FRAMING PLAN "D"



KEY PLAN

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIME MECH & ELECT. REF		
3-31-77	CAISSON REF.		
4-7-77	MET. ROOF DECK MET. SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROTECTION BID REF.		
4-23-77	CONC. PLENUM BID REF.		
4-25-77	1ST. FL. CONC. BID REF.		
5-20-77	SUBMITTED SHOP DWG		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PAINTING & FINISHING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
88	9-9-77	E.K.		
85	9-9-77	E.K.		
82	7-21-77	A.C.		
49	7-18-77	A.C.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		
5.23	6-1-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
REGISTERED
STATE
NUMBER
DATE

ARGONAUT
PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
DIVISION OF GENERAL MOTORS • 485 WEST MILWAUKIE AVENUE • DETROIT, MICHIGAN
ARCHITECTURE • ENGINEERING • REAL ESTATE • CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLAN AREA NO. 2

SHEET TITLE

OWNER'S IDENTIFICATION
DATE 3-8-77
DRAWN BY ALCINI, PROSKY
JOB CAPT. KUCZYNSKI

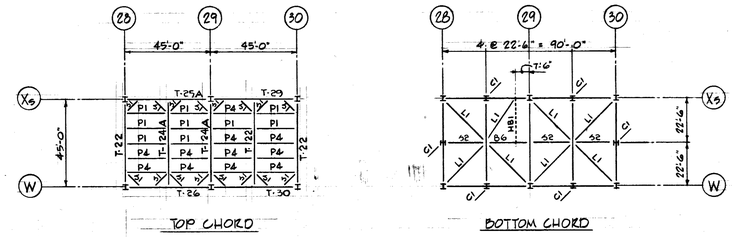
4500
P.E.&C. PROJECT NUMBER

S-4
SHEET NUMBER

ARGO 118 REV. 12-69 KOKE 17 0133 2-24 1790+

MAR 3 1978

PROJECT NO. SHEET NO.



TOP CHORD

BOTTOM CHORD

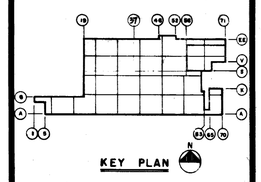
WELDER WATER ROOF FRAMING PLANS

NOTE "A"
AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" - SEE ENLARGED FRAMING PLAN ON SH'T 5-10 (SEE ARCH. DWGS ALSO)

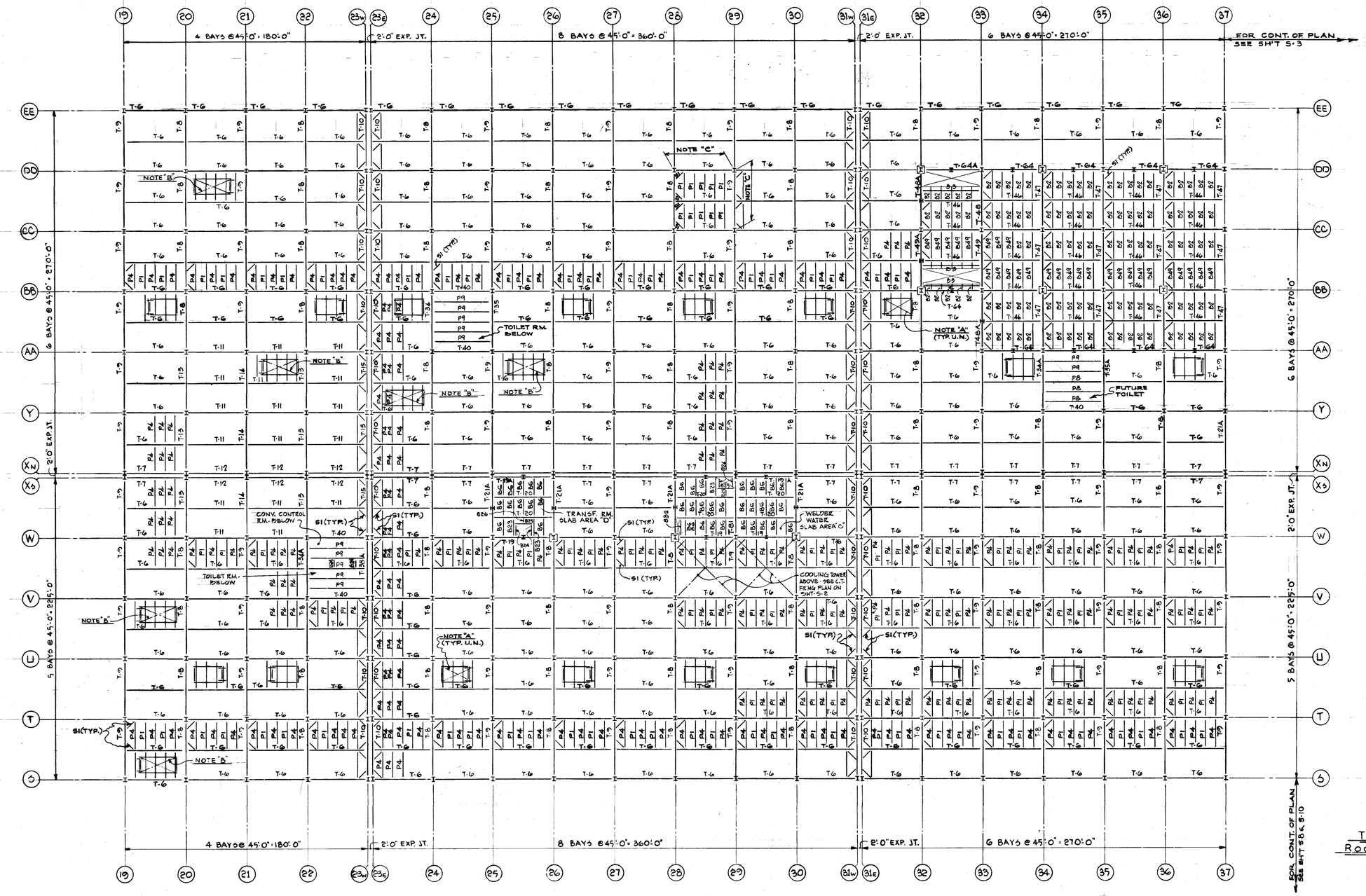
NOTE "B"
AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "B" - SEE ENLARGED FRAMING PLAN ON SH'T 5-10 (SEE ARCH DWGS ALSO)

NOTE "C"
TYPICAL BAY - REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED)

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIMB MECH & ELECT REF.		
3-21-77	GAISSON REF.		
4-7-77	MET. ROOF DECK, MET. SIDING, PRECAST PANELS REF		
4-18-77	FIRE PROTECTION BID REF.		
4-28-77	1ST. FL. CONC. BID REF.		
5-10-77	DEFECTED S'LAB & O		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH. REF.		
5-27-77	PAINTING & FINISHING REF.		

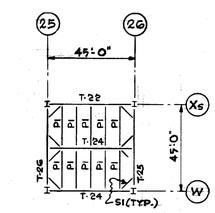


KEY PLAN

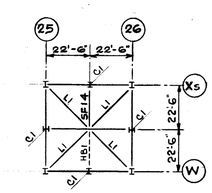


PARTIAL TOP CHORD ROOF FRAMING PLAN

NOTE:
COLUMNS MARKED THUS ⊠ ON THE PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMN REQUIRED TO CLEAR MECHANICAL PIPING. SEE TYPICAL DETAIL SH'T 5-26.



TOP CHORD



BOTTOM CHORD

TRANSFORMER ROOM ROOF FRAMING PLANS
SCALE: 1/8" = 1'-0"

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
61	7-7-77	E.K.		
25	6-9-77	E.K.		
P.C. 32	6-1-77	EK		

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
REGISTERED
STATE
NUMBER
DATE

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLANS AREA NO. 3

SHEET TITLE

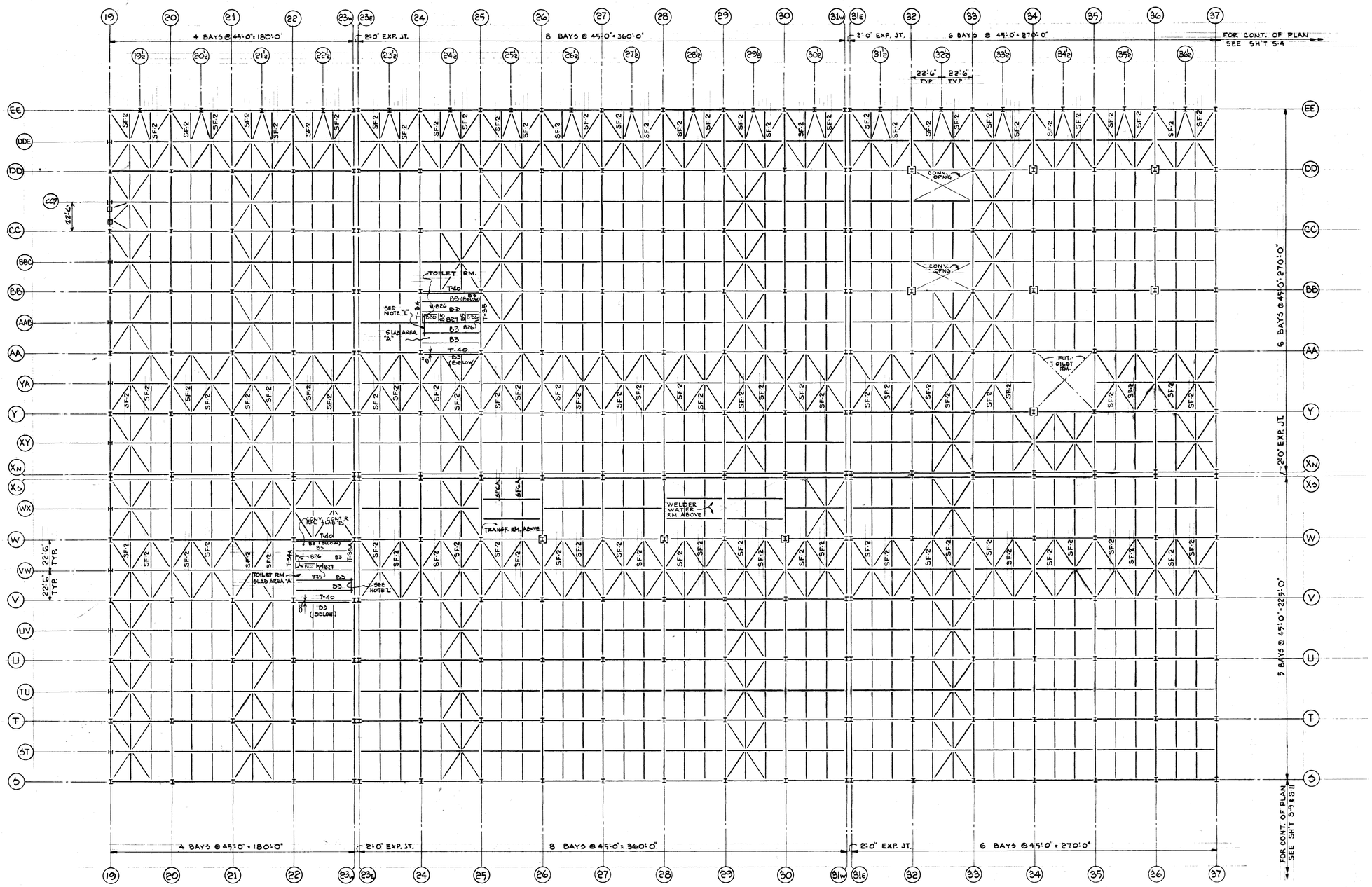
OWNER'S IDENTIFICATION	4500 P. E. & C. PROJECT NUMBER
DATE 3-8-77	S-5
DRAWN BY F. BROSKY	
JOB CAPT. E. KUCZYNSKI	SHEET NUMBER

ARGO 118 REV. 12-69 KORE 17 0153 5-74 1750+

MAR 2 1978

PROJECT NO. SHEET NO.

NOTE "L" G19 GIRT AROUND PERIMETER OF TOILET RM. SEE ARCH. DWG'S FOR LOCATION & EXTENT OF G19.

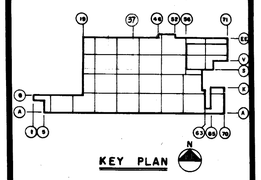


PARTIAL BOTTOM CHORD FRAMING PLAN

NOTE: FOR ALL TRUSS MARKS SEE TOP CHORD FRAMING PLAN ON SHT S-5
ALL STRUTS ARE "S3" (UNLESS NOTED)
ALL DIAGONAL BRACING "L2" (UNLESS NOTED)

COLUMNS MARKED THUS [I] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMNS REQ'D TO CLEAR MECHANICAL PIPING. SEE TYP. DETAIL ON SHT. S-20.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-3-77	STRUCT. STL BIDS		
3-23-77	PRIME MECH & ELECT REF.		
3-21-77	CANISSON REF.		
4-7-77	MBT. ROOF DECK, MBT. SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROTECTION BID REF.		
4-28-77	1ST. FL. CONC. BID REF.		
5-20-77	SUMMETED SLAB DO		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REF		



NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	MAM		
61	7-7-77	E.K.		
25	6-9-77	E.K.		
RC-32	6-1-77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
ARGONAUT — GENERAL MOTORS CORPORATION
DIVISION OF GENERAL MOTORS • 485 WEST MILWAUKEE AVENUE • DETROIT, MICHIGAN
ARCHITECTURE • ENGINEERING • REAL ESTATE • CONSTRUCTION

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF
FRAMING PLANS
AREA NO. 3

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C PROJECT NUMBER: 4500

DATE 3-8-77

DRAWN BY F. BROOKY

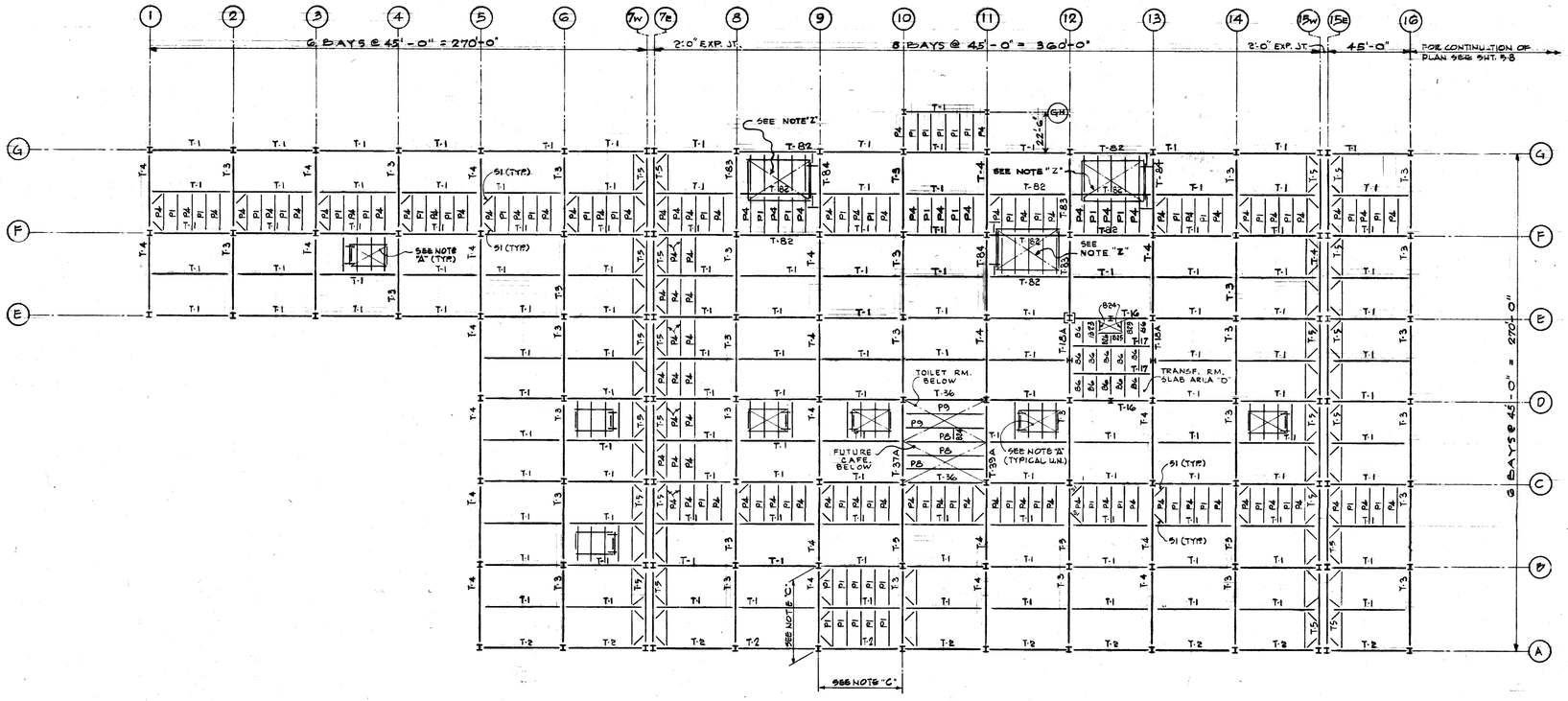
JOB CAPT. E. KUCZYNSKI

SHEET NUMBER: S-6

ARGO 112 REV. 12-69 K&E 17 0133 5-74 1750+

MAR 3 1978

PROJECT NO. SHEET NO.



PARTIAL TOP CHORD ROOF FRAMING PLAN

SCALE: 1/32" = 1'-0"

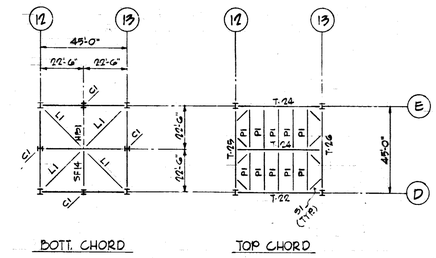
NOTE "A" AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" SEE ENLARGED FRAMING PLAN ON SHT S-10.

NOTE "B" AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "B" SEE ENLARGED FRAMING PLAN ON SHT. 10

NOTE "C" TYPICAL BAY - REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED)

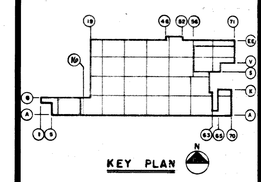
NOTE "L" "G19" GIET AROUND PERIMETER OF TOILET RM. SEE MECH. DWG'S FOR EXTENT OF "G19" & LOCATION.

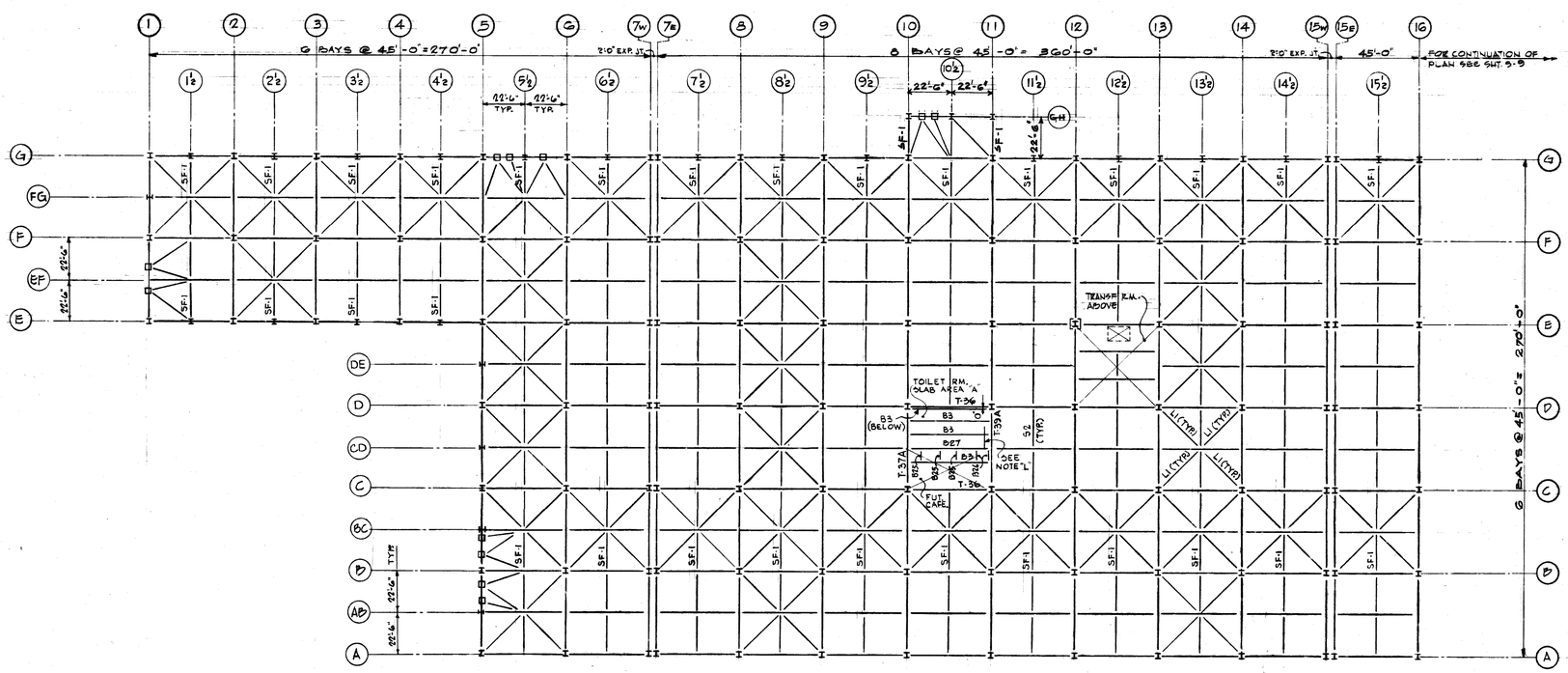
NOTE "Z" AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "C" SEE ENLARGED FRAMING PLAN ON SHT 10.



TRANSFORMER RM. ROOF FRAMING PLANS

SCALE: 1/32" = 1'-0"





NOTE: FOR ALL TRUSS MARKS SEE PARTIAL TOP CHORD FRAMING PLAN ON THIS SHT.
ALL STRUTS ARE S2 UNLESS NOTED.
ALL DIAGONAL BRACING ARE "L1" (UNLESS NOTED).

NOTE: COLUMNS MARKED THUS [I] ON THE PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMN REQUIRED TO CLEAR MECHANICAL PIPING. SEE TYPICAL DETAIL ON SHT. S-26

PARTIAL BOTTOM CHORD ROOF FRAMING PLAN

SCALE: 1/32" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. ST'L BID'G		
3-25-77	PRIME & MECH & ELECT REF.		
3-21-77	CAISSON REF.		
4-7-77	MISC. ROOF DECK, MISC. SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROTECTION BID REF.		
4-23-77	1ST FL. CONC. BID REF.		
5-20-77	SUSPENDED SLAB &		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	DRAFTING & ENGINEERING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
130-139	12-20-77	DG		
61	7-7-77	E.K.		
49	7-18-77	A.G.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT

PLANT ENGINEERING AND CONSTRUCTION MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

DIVISION OF GENERAL MOTORS & 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

ARCHITECTURE & ENGINEERING

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLANS AREA NO. 4

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY W. ALCINI, R. NAGY

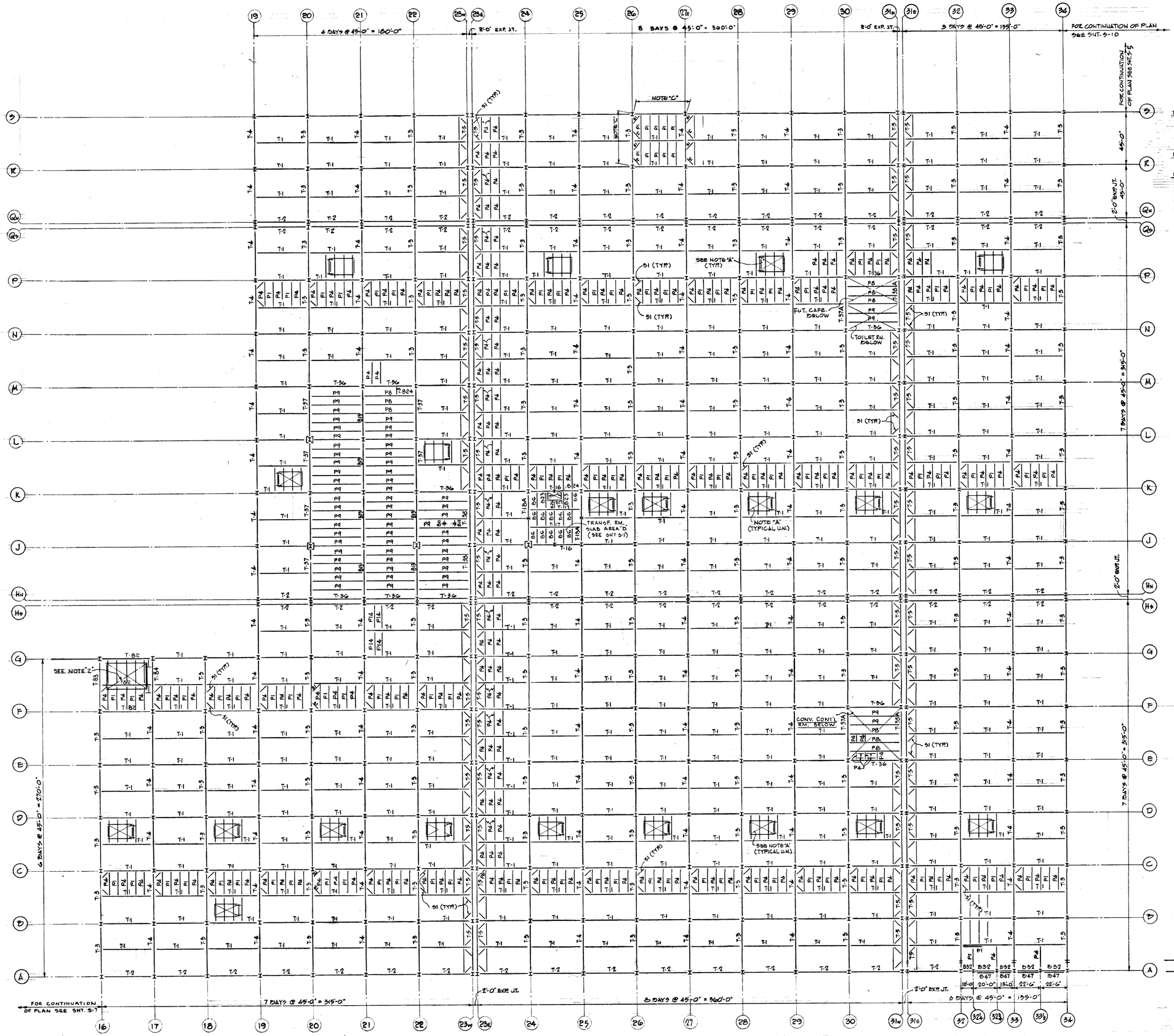
JOB CAPT. E. KUCZYNSKI

S-7

SHEET NUMBER

MAR 8 1978

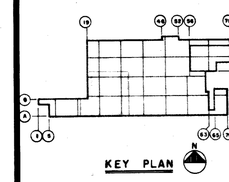
PROJECT NO. SHEET NO.



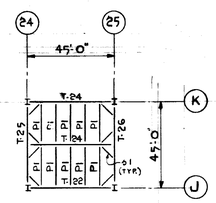
NOTE "A": AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" - SEE ENLARGED FRAMING PLAN ON SHT. 5-10

NOTE "C": TYPICAL DAY - REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED).

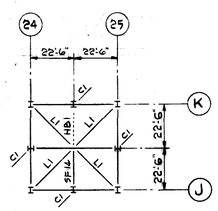
NOTE "Z": AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "C" - SEE ENLARGED FRAMING PLAN ON SHT. 5-10



KEY PLAN



TOP CHORD



BOTTOM CHORD

TRANSFORMER ROOM ROOF FRAMING PLANS

PARTIAL TOP CHORD - ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTE: COLUMNS MARKED T-45 [X] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMNS REQ'D TO CLEAR MECHANICAL PIPING. SEE TYPICAL DETAIL SHT. 5-26.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-19-77	STRUCT. STL. BID.		
3-23-77	PRIME MECH & ELECT REF.		
3-21-77	CAISSON REF.		
4-7-77	MBT. ROOF DECK, MT. SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROTECTION BID REF.		
4-28-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPLIED SLAB BD		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PAINTING & INSULATION REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
EF01555	12-8-77	DG		
EF01455	11-11-77	EK		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

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ARGONAUT

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

DIVISION OF GENERAL MOTORS 6-88 WEST BURLINGAME AVENUE & METROY, MICHIGAN

ARCHITECTURE & ENGINEERING

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLANS AREA NO. 5

SHEET TITLE

OWNER'S IDENTIFICATION

P.E. & C PROJECT NUMBER 4500

DATE 3-8-77

DRAWN BY F. BROSKY W. ALSINI

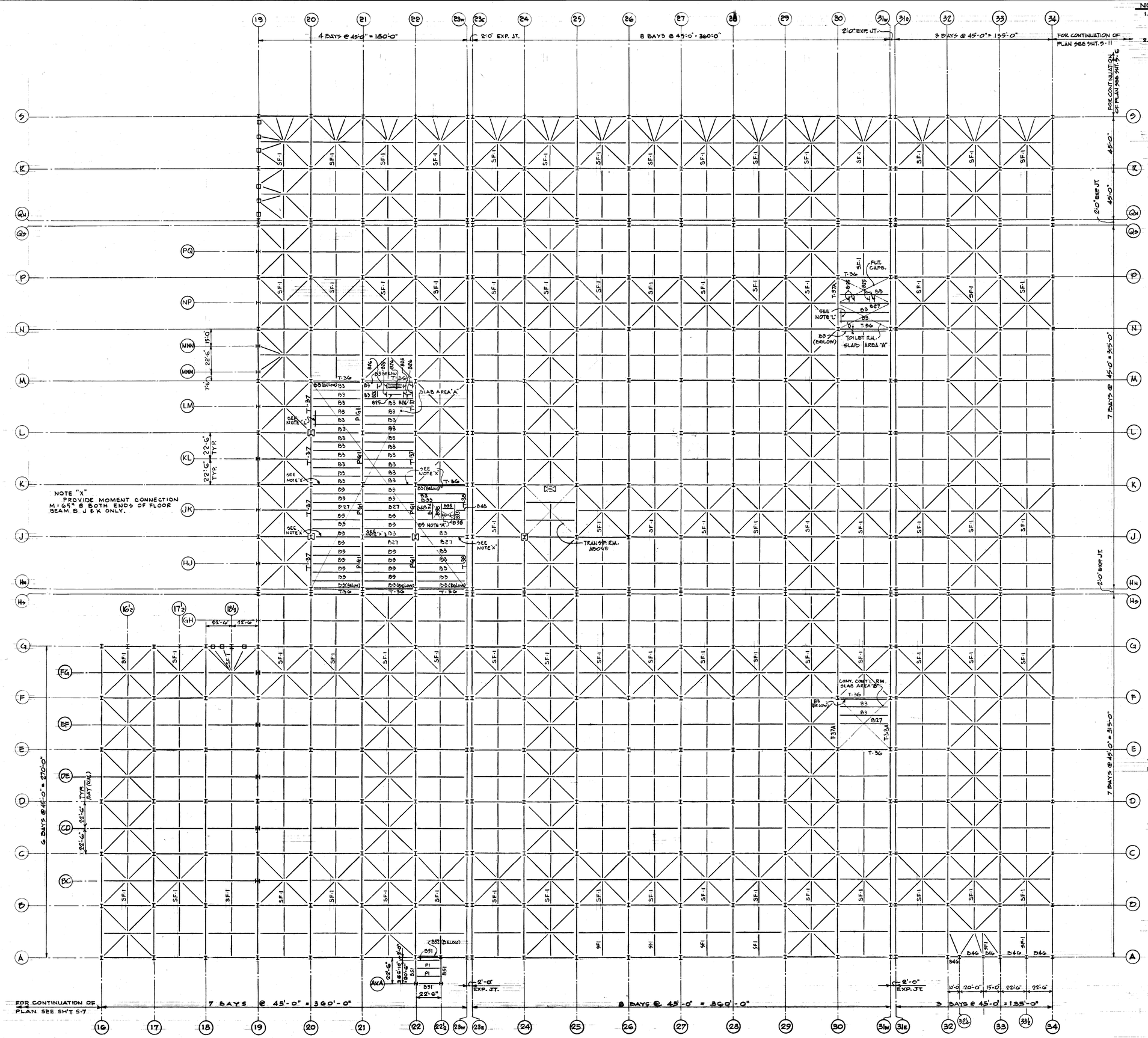
JOB CAPT. E. KUCZYNSKI

S-8

SHEET NUMBER

MAR 3 1978

PROJECT NO. SHEET NO.



PARTIAL BOTTOM CHORD ROOF FRAMING PLAN

1/32" = 1'-0"

NOTE:

1. FOR ALL TRUSS MARKS SEE PARTIAL TOP CHORD FRAMING PLAN S-8. ALL STRUTS ARE "S-2" UNLESS NOTED. ALL DIAGONAL BRACING "L1" (UNLESS NOTED)
2. COLUMNS MARKED THUS [X] ON THE PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMN REQUIRED TO CLEAR MECHANICAL PIPING. SEE TYPICAL DETAIL SHT S-2G.

NOTE "L"

G19 GIRT AROUND PERIMETER OF TOILET RM. SEE ARCH. DWG'S FOR LOCATION & EXTENT OF G19.

NOTE "M"

ELEVATOR GUIDE COL'S - SEE COL. SCHED. FOR SIZE. (SEE TYP. SECT. THIS SHT.)

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-25-77	PRIME MECH. & ELECT REF.		
3-21-77	CAISSON REF.		
4-7-77	MBT. ROOF DECK, MBT SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROTECTION BID REF.		
4-25-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTS SLAB ON GRADE		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PAINTING & MINIMAX REF.		

KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
5327	6-1-78	RM		
141	5-3-78	DG		
61	7-7-77	E.K.		
25	6-9-77	E.K.		
5326	6-1-77	E.K.		

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PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

ARGONAUT

GENERAL MOTORS CORPORATION

DIVISION OF GENERAL MOTORS & 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLAN AREA NO. 5

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P. E. & C. PROJECT NUMBER

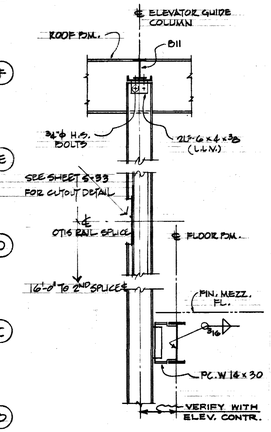
DATE 3-8-77

DRAWN BY W. ALCINI F. BROSKY

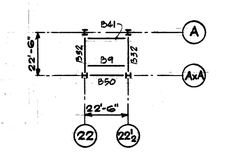
JOB CAPT. E. KUCZYNSKI

S-9

SHEET NUMBER



TYPICAL SECTION
ELEVATOR GUIDE COLUMN

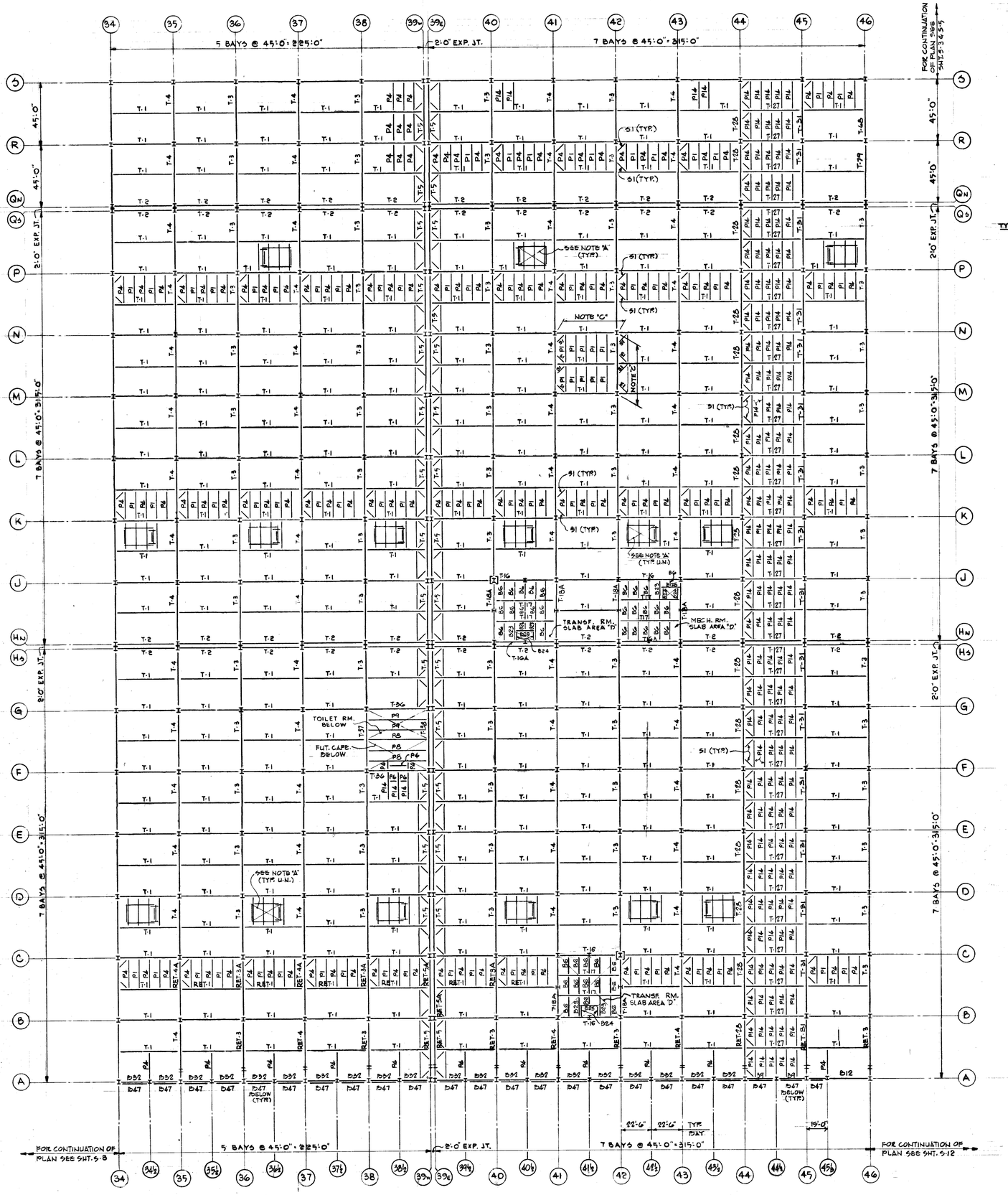


EMPLOYEE ENTRANCE
SOFFIT FRAMING PLAN

1/32" = 1'-0"

MAR 3 1978

PROJECT NO. SHEET NO.

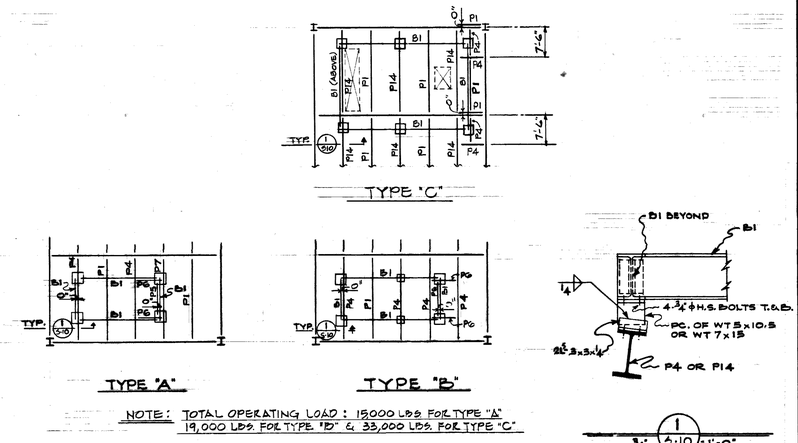


PARTIAL TOP CHORD ROOF FRAMING PLAN

SCALE: 1/32" = 1'-0"

NOTE: COLUMNS MARKED THUS [X] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMNS REQ'D TO CLEAR MECH. PIPING. SEE TYPICAL DETAIL ON SHT. S-26.

NOTE: FOR REINFORCING OF EXISTING TRUSSES MARKED RET. SEE SHEET S-34, S35 & S-36

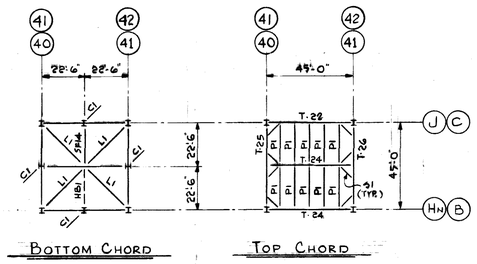


NOTE: TOTAL OPERATING LOAD: 13,000 LBS. FOR TYPE "A" 19,000 LBS. FOR TYPE "B" & 33,000 LBS. FOR TYPE "C"

TYPICAL AIR SUPPLY HOUSE SUPPORT FRAMING PLANS

1/16" = 1'-0"

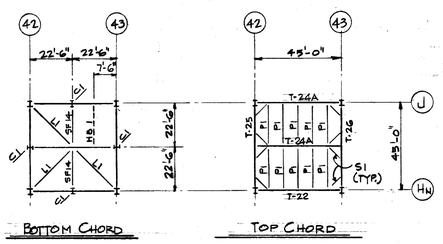
NOTE: THE ACTUAL SIZE OF OPENINGS FOR AIR SUPPLY HOUSES AND MEZZANINE PACKAGE AIR CONDITIONING UNITS TO BE VERIFIED WITH MECHANICAL CONTRACTOR BEFORE PREPARING SHOP DRAWINGS.



TRANSFORMER ROOM ROOF FRAMING PLANS

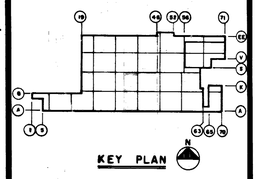
NOTE "A" AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" - SEE ENLARGED FRAMING PLAN ON THIS SHEET (SEE ARCH. DWG'S ALSO).

NOTE "C" TYPICAL BAY - REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED).



MECHANICAL ROOM ROOF FRAMING PLANS

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	612 OCT. 67 & B105		
3-23-77	PRIME MECH	B BLBLT REF.	
3-21-77	CAISSON REF.		
4-7-77	MET. DECK DECK, MET SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROTECTION B10 REF.		
4-23-77	1 ST FL. CONC. B10 REF.		
5-20-77	SUPPORT FOR SLAB B-10		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH B25		
5-27-77	PAINTING & FINISHING B10		



NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
EFO 1558	12-8-77	DG		
EFO #155	11-11-77	EK		
EFO #27	10-17-77	EK		
49	7-18-77	A.C.		
61	7-7-77	E.K.		
25	6-9-77	EK		

REVISIONS

CONTRACT SIGNATURES

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REGISTERED

STATE

NUMBER

DATE

ARGONAUT DIVISION OF GENERAL MOTORS & 465 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

PLANT ENGINEERING AND CONSTRUCTION MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLAN AREA NO. 6

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P.E. & C. PROJECT NUMBER

DATE 3-8-77

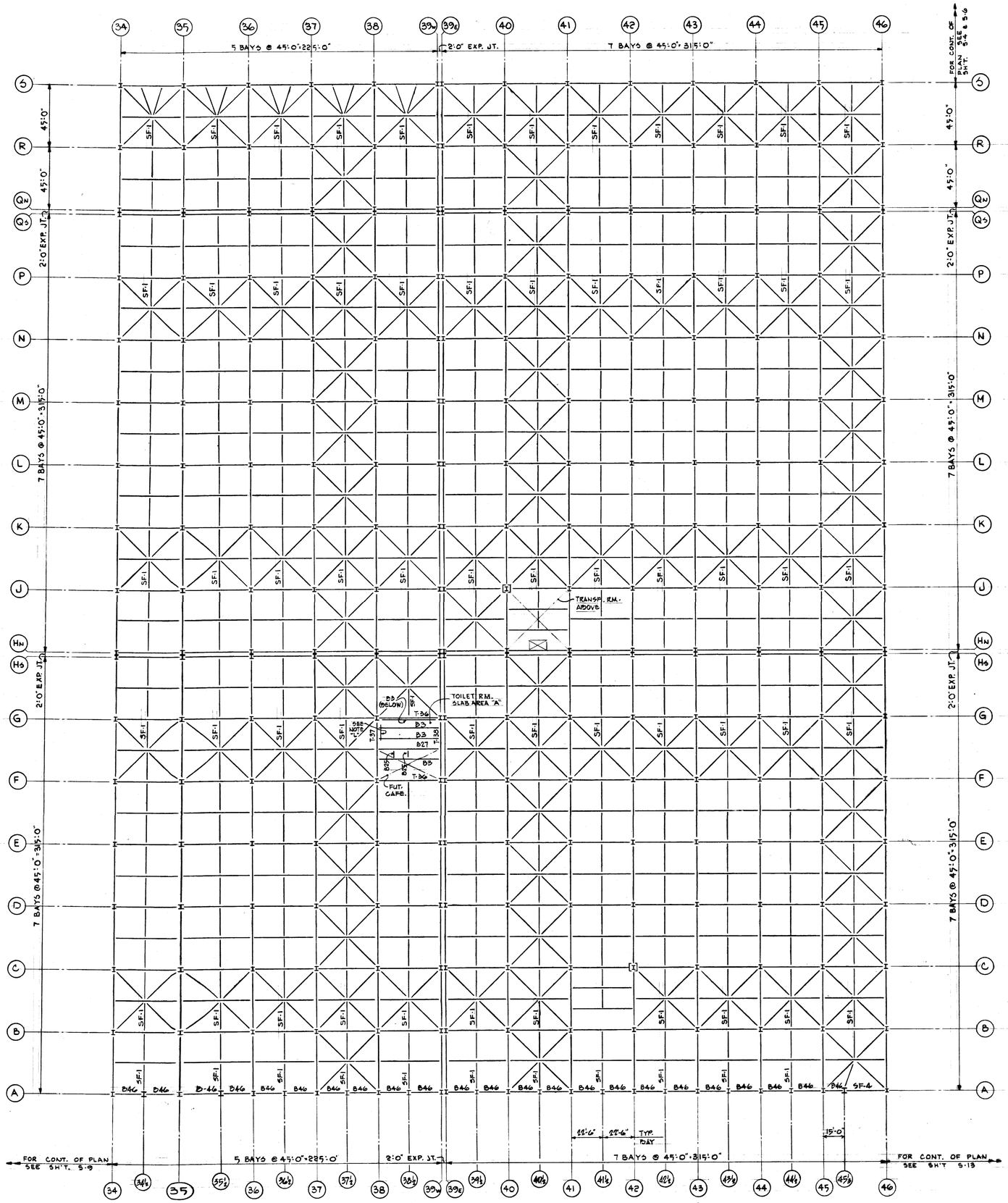
DRAWN BY ALCINI NAY BRADLEY

JOB CAPT. KOCZYNSKI

S-10 SHEET NUMBER

MAR 3 1978

PROJECT NO. SHEET NO.

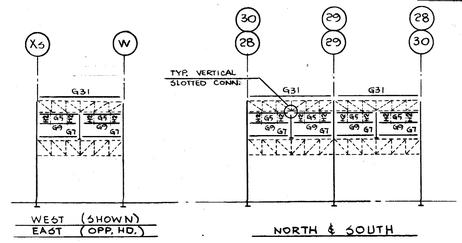


PARTIAL BOTTOM CHORD ROOF FRAMING PLAN

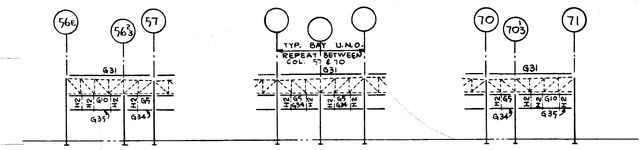
NOTE: FOR ALL TRUSS MARKS SEE TOP CHORD FRAMING PLAN ON SHT S-10.
ALL STRUTS ARE "S2" (UNLESS NOTED)
ALL DIAGONAL BRACING "L1" (UNLESS NOTED)

COLUMNS MARKED THUS [X] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMNS REQ'D TO CLEAR MECH. PIPING. SEE TYPICAL DETAIL ON SHT. S-26.

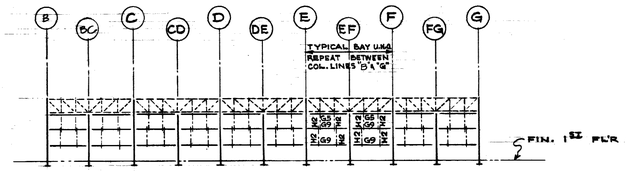
NOTE "L" G-19 AROUND PERIMETER OF TOILET RMS. SEE ARCH. DWG'S FOR LOCATION & EXTENT OF G-19.



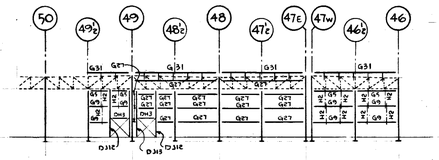
ELEVATIONS FOR WELDER WATER



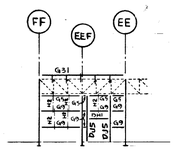
ELEVATIONS ALONG COLUMN LINE "CC"
(LOOKING NORTH)



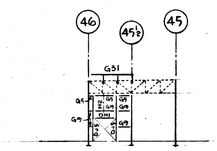
ELEVATION ALONG COLUMN LINE "19"



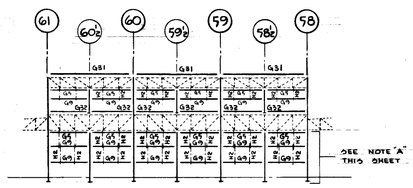
ELEVATION ALONG COLUMN LINE "FF"
(LOOKING SOUTH)



ELEV. ALONG COL. LINE "46"
(LOOKING SOUTH)



ELEV. ALONG COL. LINE "EE"

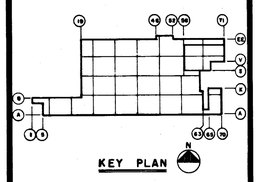


ELEVATION ALONG COLUMN LINE "EE"
(LOOKING SOUTH)

NOTE:
FOR ADDITIONAL ELEVATIONS SEE SHEETS S-17, S-18, & S-24.

NOTE A:
OMIT ALL GIRTS & WIND COL'S FROM TRANSF. RM. FLOOR TO FIN. 1ST FLOOR FOR SEPARATE PRICE "B".

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. OTL BIDS		
3-23-77	PLUMB MECH & ELECT REF.		
3-21-77	CAISSON REF.		
4-7-77	MBT ROOF DECK, MBT SIDING, PRECAST PANELS REF.		
4-13-77	FIRE PROT. BID REF.		
4-25-77	1ST FL. CONC. BID REF.		
5-20-77	SUMPETS & GEAR REF.		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PAINTING & FIREPROOFING REF.		



KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
49	7-18-77	A.C.		
61	7-7-77	B.K.		
25	6-9-77	B.K.		

REVISIONS

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NUMBER
DATE

ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF
FRAMING PLAN
AREA NO. 6

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

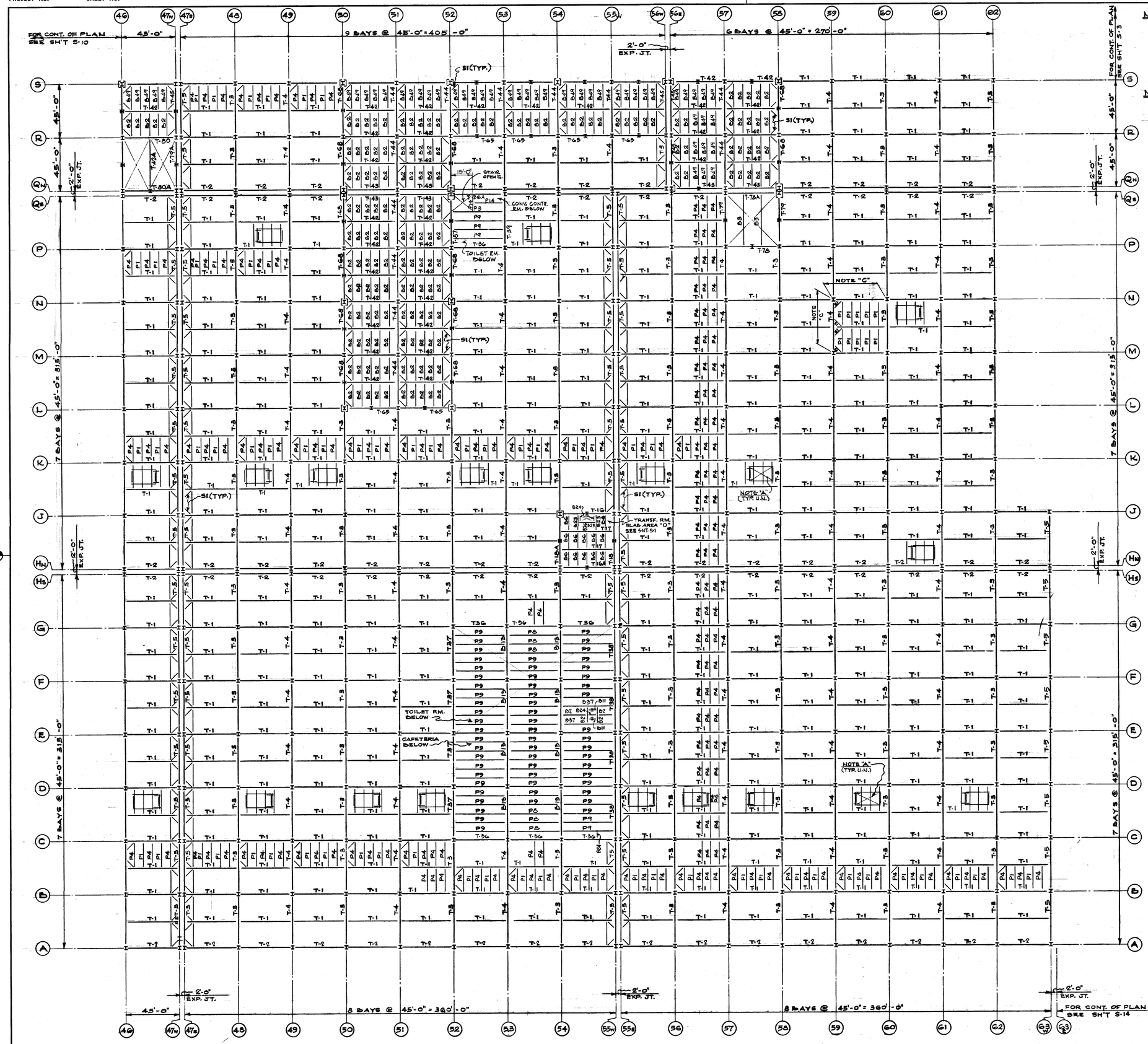
DATE 3-8-77
DRAWN BY F. BROSKY
JOB CAPT. E. KUCZYNSKI

S-11
SHEET NUMBER

K&E 17 0153 5-73 50579+

MAR 3 1978

PROJECT NO. SHEET NO.



PARTIAL TOP CHORD ROOF FRAMING PLAN

1/32" = 1'-0"

NOTE: COLUMNS MARKED THUS [X] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMNS REQ'D TO CLEAR MECH. PIPING. SEE TYPICAL DETAIL ON SH'T. S-20.

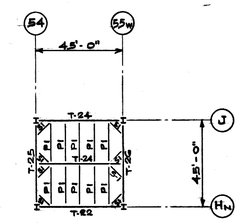
NOTE: FOR REINFORCING OF EXISTING TRUSSES MARKER REF. SEE SHEET S-34, S35 & S-36

NOTE "A"

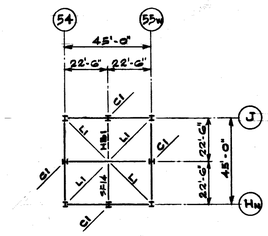
AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" SEE ENLARGED FRAMING PLAN ON SH'T S-10. (SEE ARCH. DWG'S ALSO).

NOTE "C"

TYPICAL BAY - REPEAT P1 & S1 IN ALL BAYS (UNLESS NOTED)



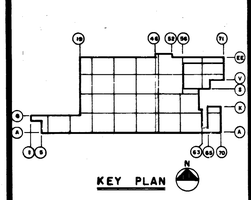
TOP CHORD



BOTTOM CHORD

TRANSFORMER ROOM ROOF FRAMING PLAN

1/32" = 1'-0"



KEY PLAN

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT STL BIDS		
3-23-77	PRIME & MECH. BIDS		
3-21-77	CAISSON REF.		
4-7-77	MET. ROOF DECK, MET SIDING, PRECAST PANELS REF		
4-18-77	FIRE PROT. BID		
4-23-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTED SLAB BID		
5-25-77	MISC. STL. REF.		
6-26-77	ARCH REF.		
5-27-77	PAINTING & FINISHING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
EPO 155	11-11-77	E.K.		
62	7-21-77	A.G.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

DIVISION OF GENERAL MOTORS 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

DIRECTOR

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLAN AREA No. 7

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY NASY

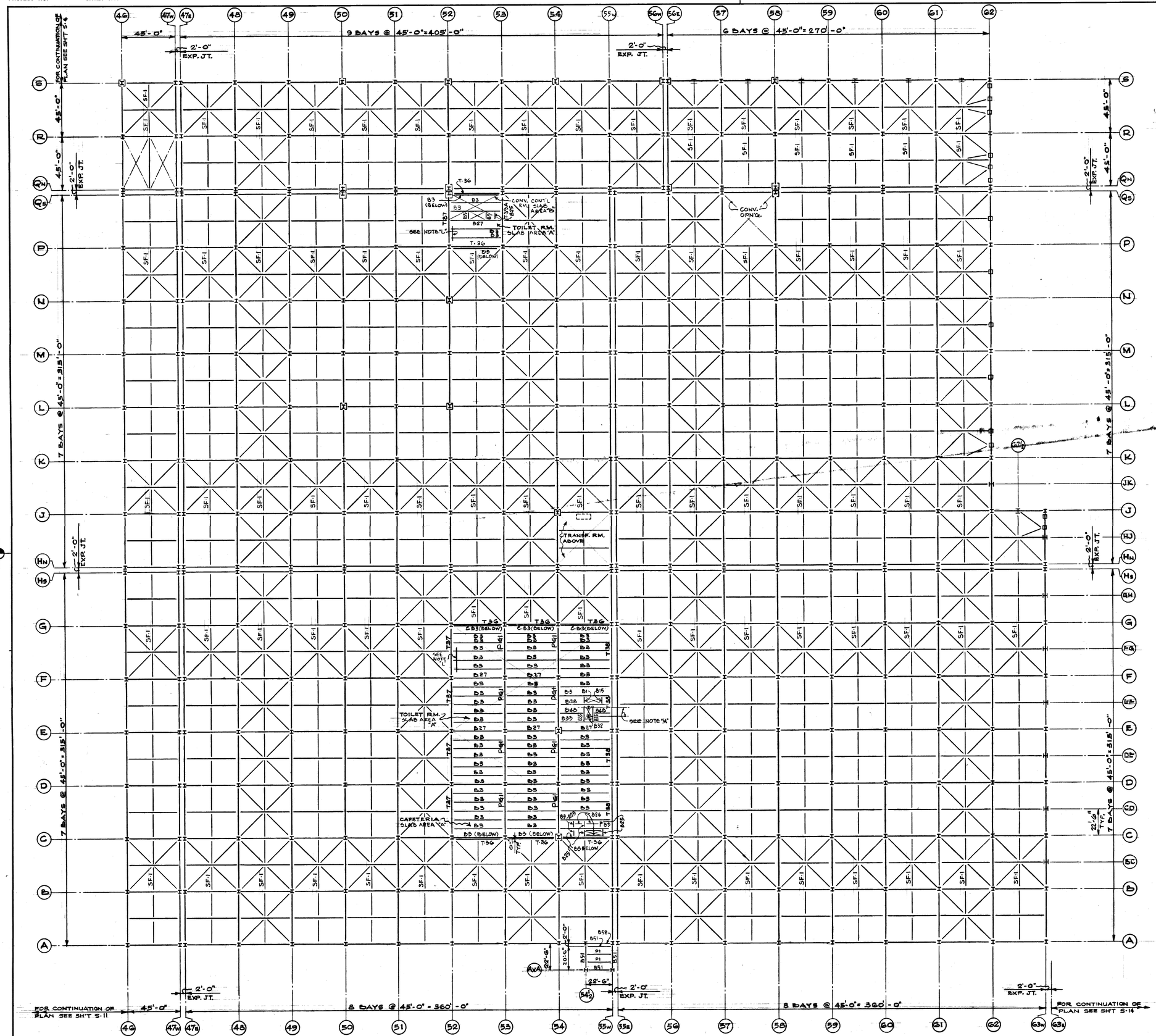
JOB CAPT. KUCZYNSKI

S-12

SHEET NUMBER

MAR 3 1978

PROJECT NO. SHEET NO.



PARTIAL BOTTOM CHORD ROOF FRAMING PLAN

1/32" = 1'-0"

NOTE "L" 419 GIET AROUND PERIMETER OF TOILET RM. SEE ARCH. DWG'S FOR LOCATION & EXTENT OF 419.

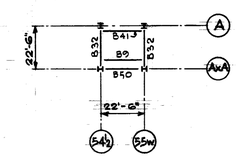
NOTE "M" ELEVATOR GUIDE COL'S: SEE COL. SCHED. FOR SIZE. SEE TYP. SECT. ON SHT. S-9.

NOTE: FOR ALL TRUSS MARKS SEE TOP CHORD FRAMING PLAN ON SHT S-12

ALL STRUTS ARE "S2" (UNLESS NOTED)

ALL DIAGONAL BRACING "L1" (UNLESS NOTED)

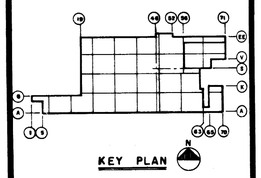
ALL COLUMNS MARKED THUS [X] ON PLAN INDICATE TRUSS CONNECTIONS OF BOXED COLUMNS REQ'D TO CLEAR MECH. PIPING. SEE TYPICAL DETAIL ON SHT. S-26.



EMPLOYEE ENTRANCE SOFFIT FRAMING PLAN

1/32" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIME MECH & ELECT REF		
3-21-77	CAISSON REF.		
4-7-77	MBT ROOF DECK, MST SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROT. BID REF.		
4-28-77	1ST FL. CONC. BID REF.		
5-20-77	SUMMITED BAC & O		
5-25-77	MISC. STL REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REF.		



KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	D.G.		
61	7-7-77	E.K.		
49	7-18-77	AC		
25	6-9-77	E.K.		
PC 32	6-1-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

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STATE

NUMBER

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ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF FRAMING PLAN AREA No. 7

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P.E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY BROSKY NAGY

JOB CAPT. KUCZYNSKI

S-13

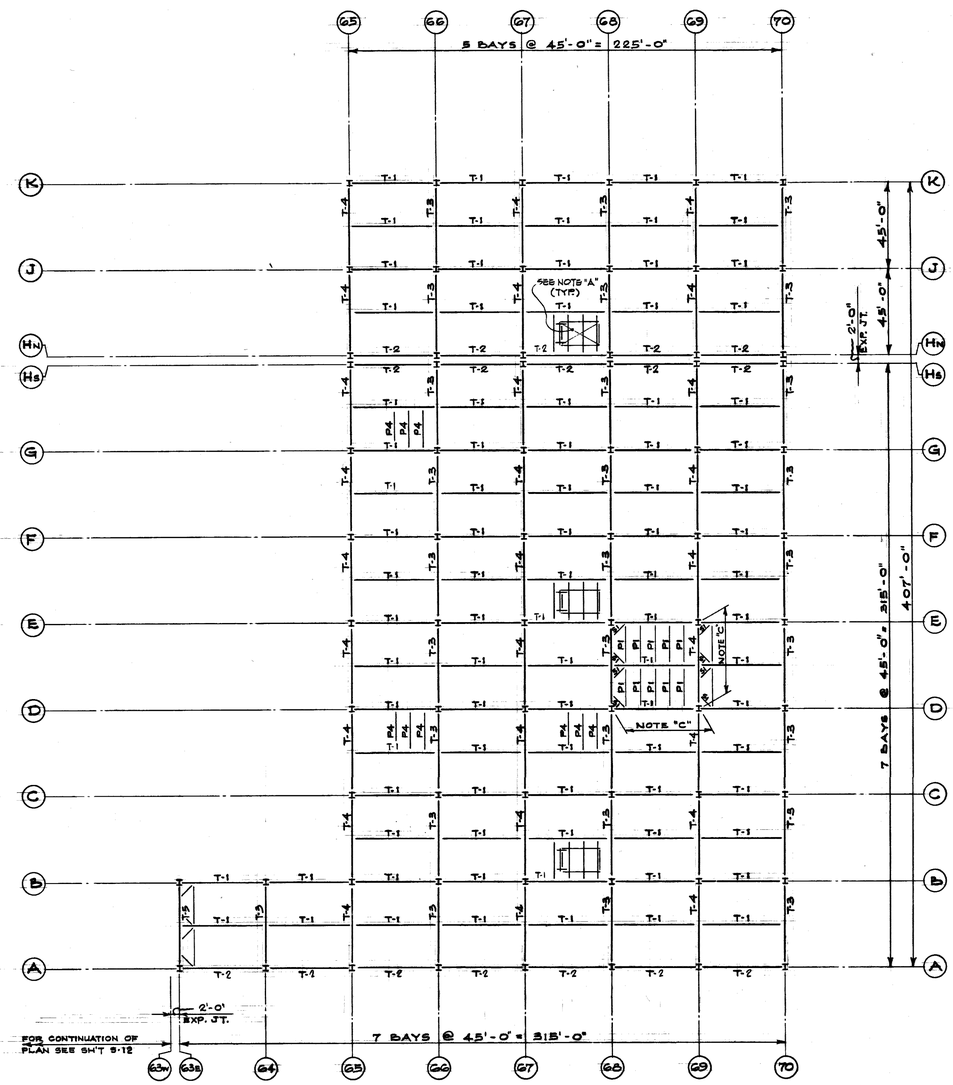
SHEET NUMBER

ARGO 118 REV. 12-69 KSE 17 0133 2-74 1790+

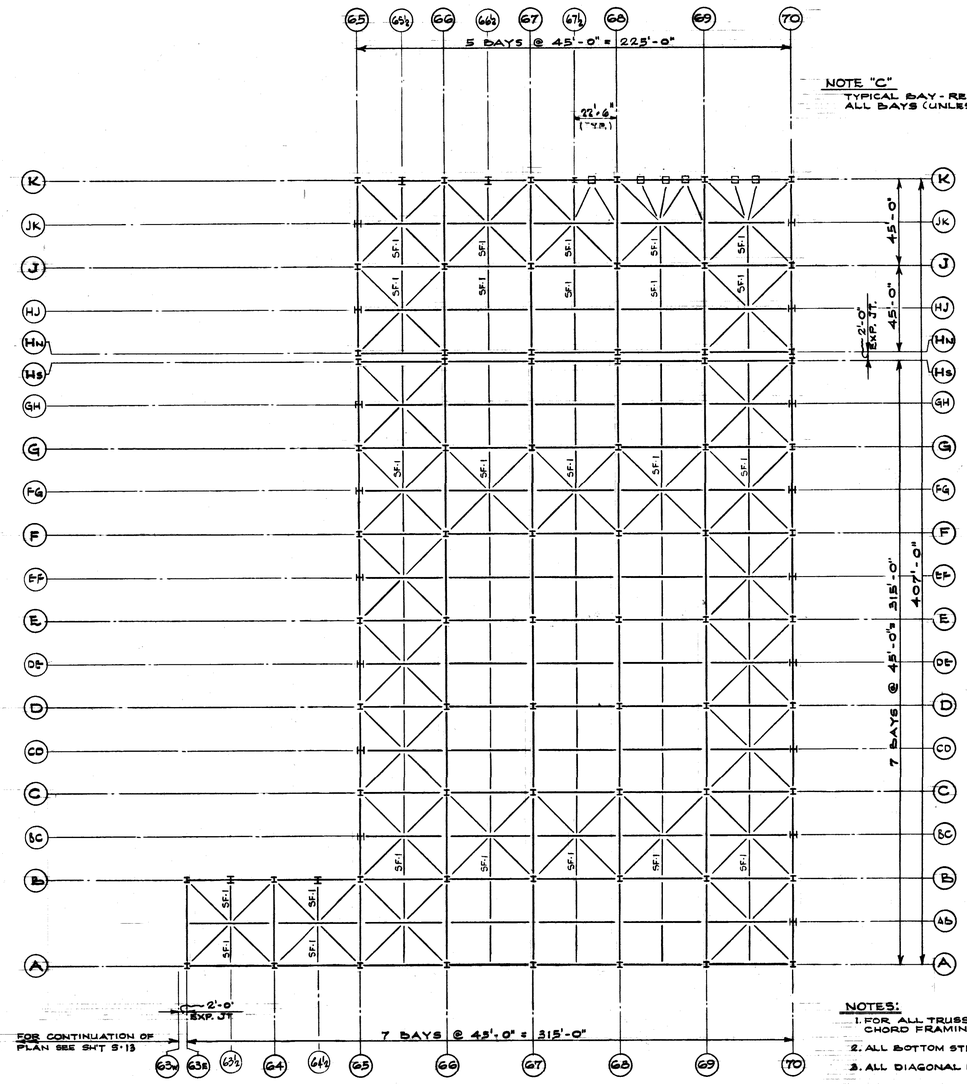
MAR 3 1978

PROJECT NO. SHEET NO.

NOTE "A"
AIR SUPPLY HOUSE SUPPORT FRAMING TYPE "A" - SEE SHLAGEBD FRAMING PLAN ON SHT. S-10 (SEE ARCH. DWG'S).



TOP CHORD ROOF FRAMING PLAN
1/32" = 1'-0"

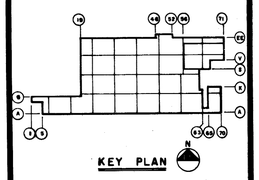


NOTE "C"
TYPICAL BAY - REPEAT "P1" & "S1" IN ALL BAYS (UNLESS NOTED)

NOTES:
1. FOR ALL TRUSS MARKS SEE TOP CHORD FRAMING PLAN.
2. ALL BOTTOM STRUTS "S2" (U.N.)
3. ALL DIAGONAL BRACING "L1" (U.N.)

BOTTOM CHORD ROOF FRAMING PLAN
1/32" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL. BLDG		
3-23-77	PRIMS MECH	& ELECT REF.	
3-24-77	CANOPY REF.		
4-7-77	MET. ROOF DECK, MET.	SIDING, PRECAST PANELS REF.	
4-18-77	FIRE PROT. DWG	REF.	
4-22-77	1ST FL. CONC.	BLD REF.	
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PAINTING & FINISHING REF		



NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
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NUMBER
DATE

ARGONAUT
DIVISION OF GENERAL MOTORS
PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE • DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ROOF
FRAMING PLANS
BULK STORAGE BLDG.

SHEET TITLE

OWNER'S IDENTIFICATION
4500
P. E. & C. PROJECT NUMBER

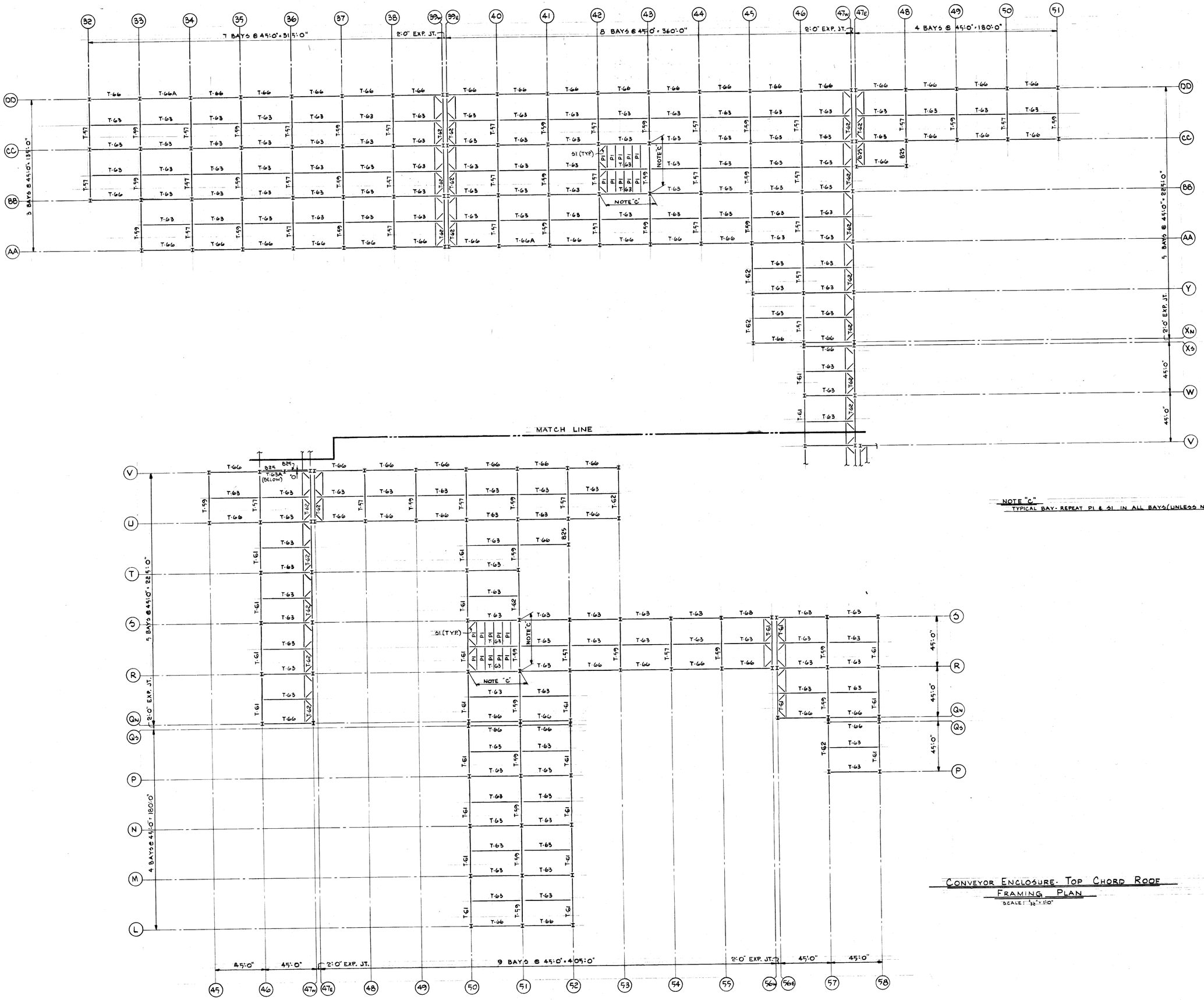
DATE 3-8-77
DRAWN BY BROSKY
JOB CAPT. KUCZYNSKI

S-14
SHEET NUMBER

ARGO 118 REV. 12-69 KSE 17 0153 8-74 170m

MAR 3 1978

PROJECT NO. SHEET NO.



NOTE "C"
TYPICAL BAY - REPEAT PI & S1 IN ALL BAYS (UNLESS NOTED)

CONVEYOR ENCLOSURE - TOP CHORD ROOF FRAMING PLAN
SCALE: 1/32" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIME MECH	E. BUBLT REF.	
4-5-77	MET ROOF DECK, MET SIDING, PEDESTAL		PANELS REF.
4-18-77	FIRE PROT. BID	REF.	
4-23-77	1ST FL. CONC. BID	REF.	
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PLUMBING & ELECTRICAL REF.		

KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
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ARGONAUT
DIVISION OF GENERAL MOTORS

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GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

CONVEYOR ENCLOSURE
TOP CHORD ROOF
FRAMING PLAN

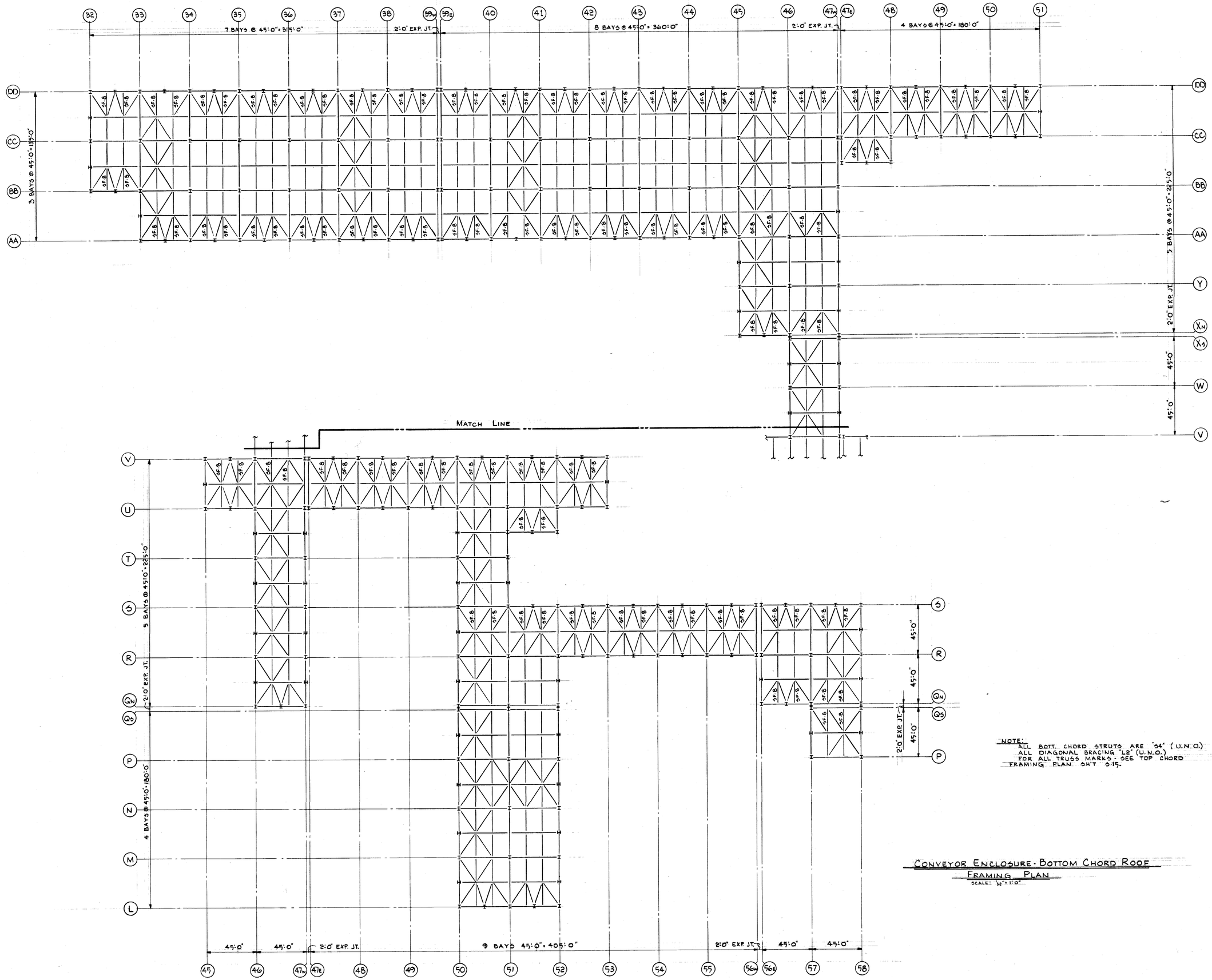
SHEET TITLE

OWNER'S IDENTIFICATION
P. E. & C. PROJECT NUMBER: 4500
DATE 3-8-77
DRAWN BY BROSKY
JOB CAPT. E. KUCZYNSKI
SHEET NUMBER: S-15

MAR 3 1978

ARGO 116 REV. 12-69 K&E 17 0133 5-74 1790

PROJECT NO. SHEET NO.



NOTE:
ALL BOTT. CHORD STRUTS ARE "S4" (U.N.O.)
ALL DIAGONAL BRACING "L2" (U.N.O.)
FOR ALL TRUSS MARKS - SEE TOP CHORD FRAMING PLAN SH'T S-15.

CONVEYOR ENCLOSURE - BOTTOM CHORD ROOF
FRAMING PLAN
SCALE: 1/8" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIME & MECH. & BLDG'T. REF.		
4-27-77	MBT ROOF DECK, MBT SIDING, PRECAST PANELS REF.		
4-28-77	1ST FL. CONC. BID REF.		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REF.		

KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
141	3-3-78	DG		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
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STATE
NUMBER
DATE

ARGONAUT
DIVISION OF GENERAL MOTORS
PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

CONVEYOR ENCLOSURE
BOTTOM CHORD ROOF
FRAMING PLAN

SHEET TITLE

OWNER'S IDENTIFICATION
4500
P. E. & C. PROJECT NUMBER

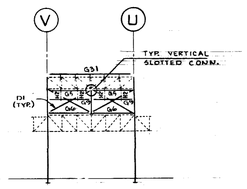
DATE 3-8-77
DRAWN BY BROSKY
JOB CAPT. E. KUCZYNSKI

S-16
SHEET NUMBER

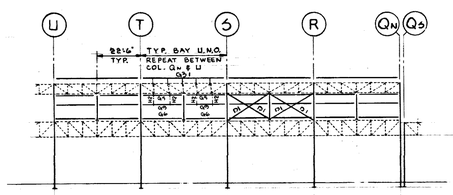
ARGO 116 REV. 12-69 KBE 17 0133 5-74 1790

MAR 3 1977

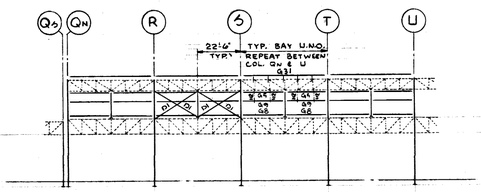
PROJECT NO. SHEET NO.



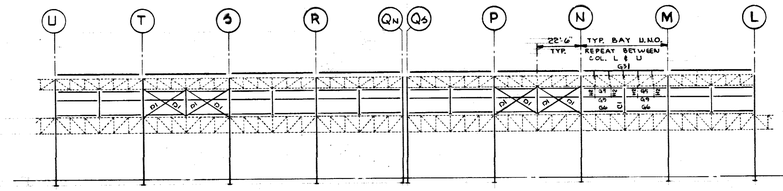
ELEV. ALONG COL. LINE "45"
(LOOKING EAST)



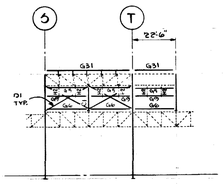
ELEVATION ALONG COLUMN LINE "46"
(LOOKING EAST)



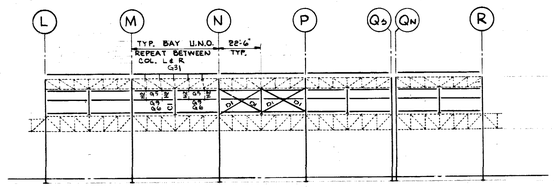
ELEVATION ALONG COLUMN LINE "47w"
(LOOKING WEST)



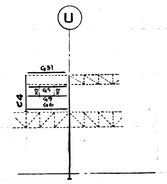
ELEVATION ALONG COLUMN LINE "50"
(LOOKING EAST)



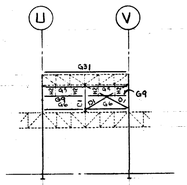
ELEV. ALONG COL. LINE "51"
(LOOKING WEST)



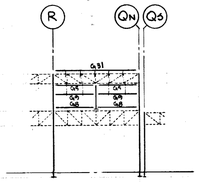
PARTIAL ELEVATION ALONG COLUMN LINE "52"
(LOOKING WEST)



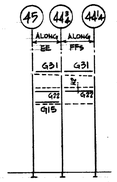
PART. ELEV. ALONG COL. LINE "52"
(LOOKING WEST)



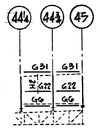
ELEV. ALONG COL. LINE "53"
(LOOKING WEST)



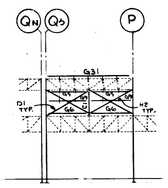
ELEV. ALONG COL. LINE "56E"



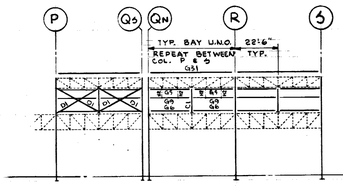
ELEV. ALONG COL. LINE "EE"
& "FFs"



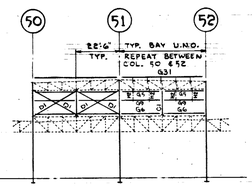
ELEV. ALONG COL. LINE "DDE"



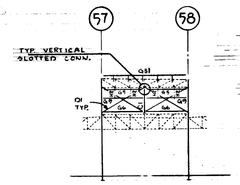
ELEV. ALONG COL. LINE "57"
(LOOKING EAST)



ELEVATION ALONG COLUMN LINE "58"
(LOOKING WEST)



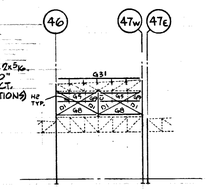
ELEV. ALONG COL. LINE "L"
(LOOKING NORTH)



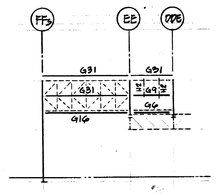
ELEV. ALONG COL. LINE "P"
(LOOKING NORTH)

NOTE

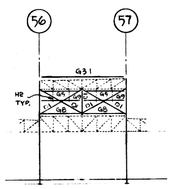
WHERE DIAGONAL WALL BRACING INTERFERES WITH GIRTS, THE GIRTS SHALL BE COPED AS REQ'D AND SHALL BE REINFORCED WITH L 7½"x7½". THE ANGLE SHALL EXTEND 1'-0" BEYOND COPED SECT. (TYP. FOR ALL SIMILAR CONDITIONS)



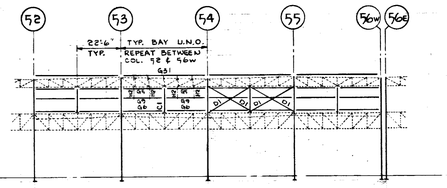
PART. ELEV. ALONG COL. LINE "QN"
(LOOKING NORTH)



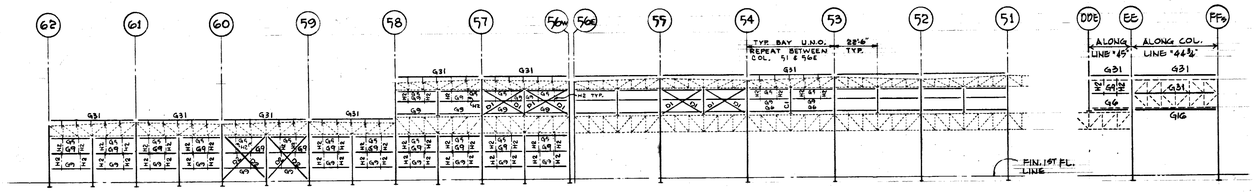
ELEVATION ALONG COL. LINE "44¼"



PART. ELEV. ALONG COL. LINE "QN"
(LOOKING NORTH)

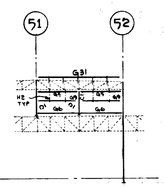


ELEVATION ALONG COL. LINE "R"
(LOOKING NORTH)

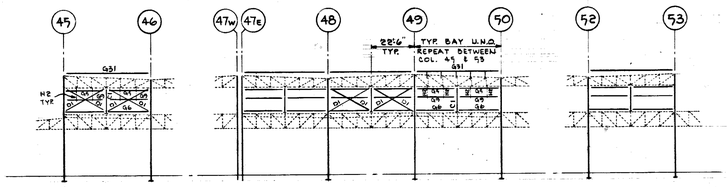


ELEVATION ALONG COLUMN LINE "S"
(LOOKING SOUTH)

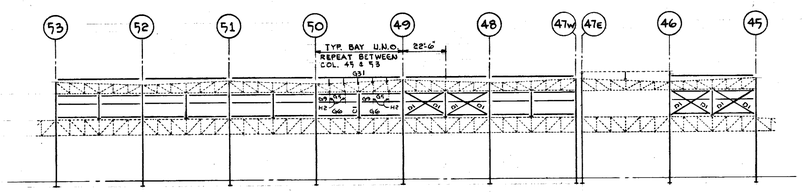
ELEVATION ALONG COL. LINES "45" & "44½"



ELEV. ALONG COL. LINE "TU"
(LOOKING NORTH)

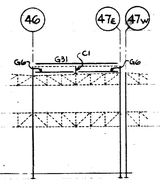


ELEVATIONS ALONG COLUMN LINE "U"
(LOOKING NORTH)

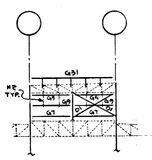


ELEVATION ALONG COLUMN LINE "V"
(LOOKING SOUTH)

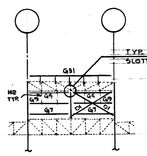
NOTE:
FOR ADDITIONAL ELEVATIONS SEE SHEETS S-11, S-18, & S-24.



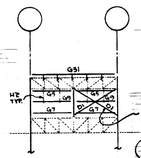
ELEV. ALONG COL. LINE "V"
(LOOKING NORTH)



SOUTH

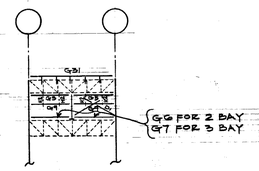


NORTH

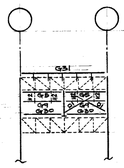


EAST & WEST

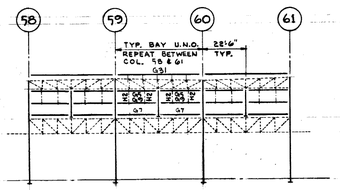
TYPICAL ONE BAY TRANSFORMER ROOM ELEVATIONS



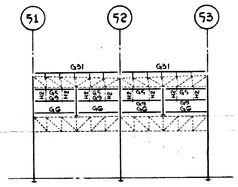
TYPICAL END BAY FOR 2 & 3 BAY TRANSFORMER ROOM



TRANSFORMER ROOM ELEV. AT EXPANSION JOINT



ELEV. ALONG COL. LINE "DD"
3 BAY TRANSF. RM.
(LOOKING NORTH)



ELEV. ALONG COL. LINE "Y" (SHOWN)
ELEV. ALONG COL. LINE "AA" (OPP. HD.)
2 BAY TRANSF. RM.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-25-77	PRIMB MECH	& ELECT REF.	
3-21-77	CAISSON REF.		
4-7-77	MST. ROOF DECK, MISC STEEL, PRECAST	PANELS REF.	
4-15-77	FIRE PROT. DET	REF.	
4-21-77	CONC. PLENUM	BID REF.	
4-22-77	1ST FL. CONC.	BID REF.	
5-20-77	SUBMITTED SHOP DR.		
5-26-77	MISC. STL. REF.		
5-26-77	ARCH REF.		
5-27-77	PAINTING & FINISH SCHD. REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
49	7-18-77	A.C.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ELEVATIONS

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE 3-8-77

DRAWN BY BROSKY

JOB CAPT. E. KUCZYNSKI

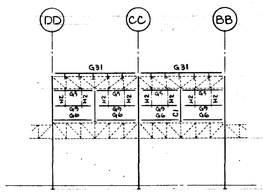
S-17

SHEET NUMBER

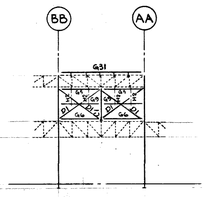
ARGO 118 REV. 12-69 KODE 17 0183 2-74 7790M

MAR 3 1979

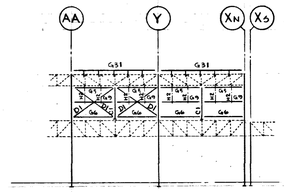
PROJECT NO. SHEET NO.



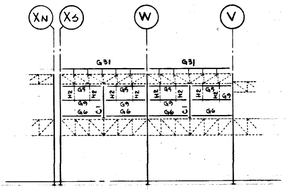
ELEV. ALONG COL. LINE "32"
(LOOKING EAST)



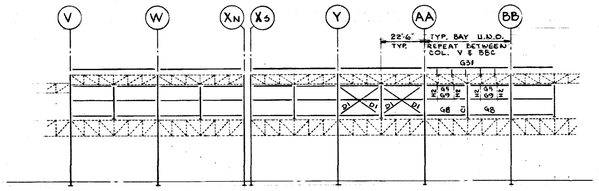
ELEV. ALONG COL. LINE "33"
(LOOKING EAST)



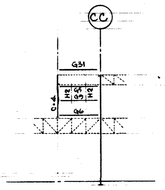
PART. ELEV. ALONG COL. LINE "45"
(LOOKING EAST)



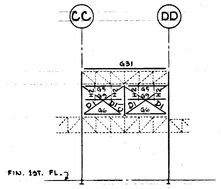
PART. ELEV. ALONG COL. LINE "46"
(LOOKING EAST)



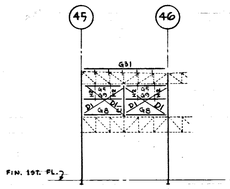
PARTIAL ELEVATION ALONG COLUMN LINE "47W"
(LOOKING WEST)



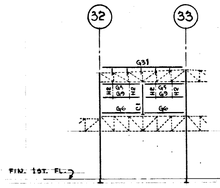
ELEV. ALONG COL. LINE "48"
(LOOKING WEST)



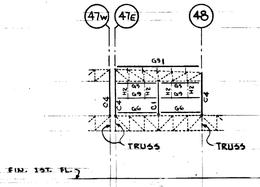
ELEV. ALONG COL. LINE "51"
(LOOKING WEST)



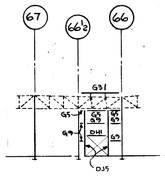
PART. ELEV. ALONG COL. LINE "XN"
(LOOKING NORTH)



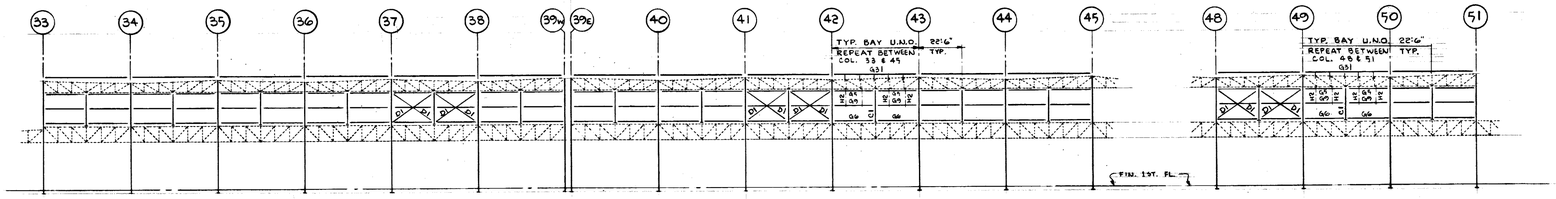
ELEV. ALONG COL. LINE "BB"
(LOOKING NORTH)



ELEV. ALONG COL. LINE "BBC"
(LOOKING NORTH)

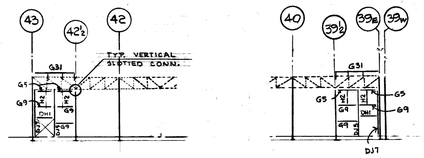


ELEV. ALONG COL. LINE "EE"
(LOOKING SOUTH)

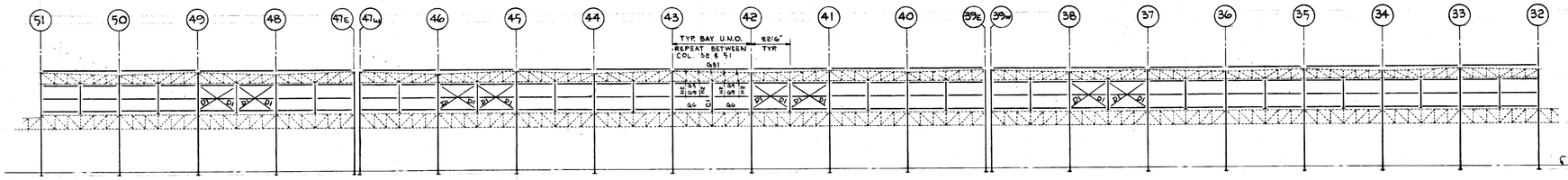


ELEVATION ALONG COLUMN LINE "AA"
(LOOKING NORTH)

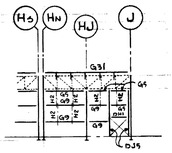
ELEV. ALONG COL. LINE "CC"
(LOOKING NORTH)



ELEVATIONS ALONG COLUMN LINE "EE"
(LOOKING SOUTH)

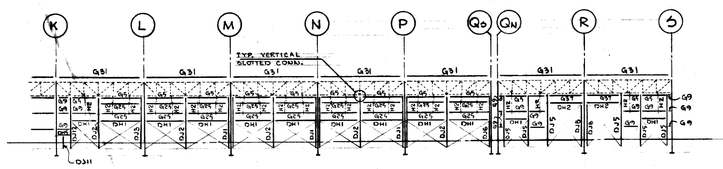


ELEVATION ALONG COLUMN LINE "DD"
(LOOKING SOUTH)

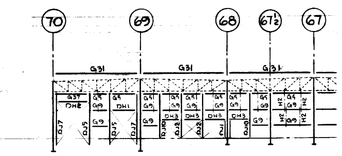


ELEV. ALONG COL. LINE "63W"

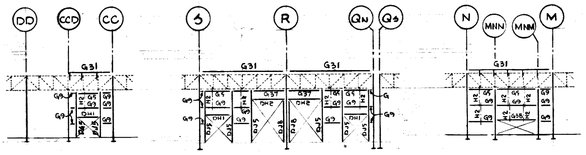
NOTE:
AT DOOR CLOSURES AND CORNERS PROVIDE SAME SIZE GIRT AS SHOWN TYPICALLY ON THE ELEVATION. SEE ALSO ARCH. DRAWINGS.



ELEVATION ALONG COLUMN LINE "62"
(LOOKING WEST)

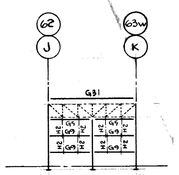


ELEVATION ALONG COLUMN LINE "K"

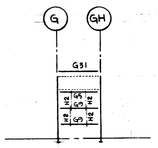


ELEVATIONS ALONG COLUMN LINE "19"

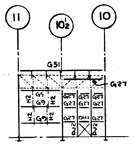
NOTE:
FOR ADDITIONAL ELEVATIONS SEE SHEETS S-11, S-17, & S-24



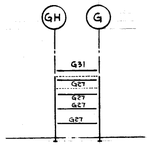
ELEV. ALONG COL. LINE "J"
ELEV. ALONG COL. LINE "62"



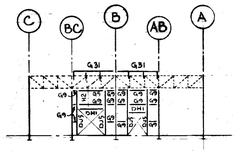
ELEV. ALONG COL. LINE "11"
(LOOKING WEST)



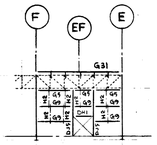
ELEV. ALONG COL. LINE "GH"
(LOOKING SOUTH)



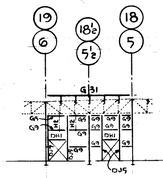
ELEV. ALONG COL. LINE "10"
(LOOKING EAST)



ELEV. ALONG COL. LINE "5"
(LOOKING EAST)



ELEV. ALONG COL. LINE "1"
(LOOKING EAST)



ELEV. ALONG COL. LINE "G"
(LOOKING SOUTH)

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT STL BIDS	J. E. Kuczynski	R. J. Meard
3-23-77	PRIMB MECH & ELECT REF		
3-21-77	CAUSON REF.	R. J. Meard	J. E. Kuczynski
4-7-77	MET. ROOFDECK, MET SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROT. BID REF.		
4-28-77	CONC. PLENUM BID REF.		
4-28-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTED STAIR 4A	J. E. Kuczynski	R. J. Meard
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PARTITION & FINISH MATL. REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
49	7-18-77	AC		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT DESIGN OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
488 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
GM ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

ELEVATIONS

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER 4500

DATE 3-8-77

DRAWN BY BROSKY

JOB CAPT. E. KUCZYNSKI

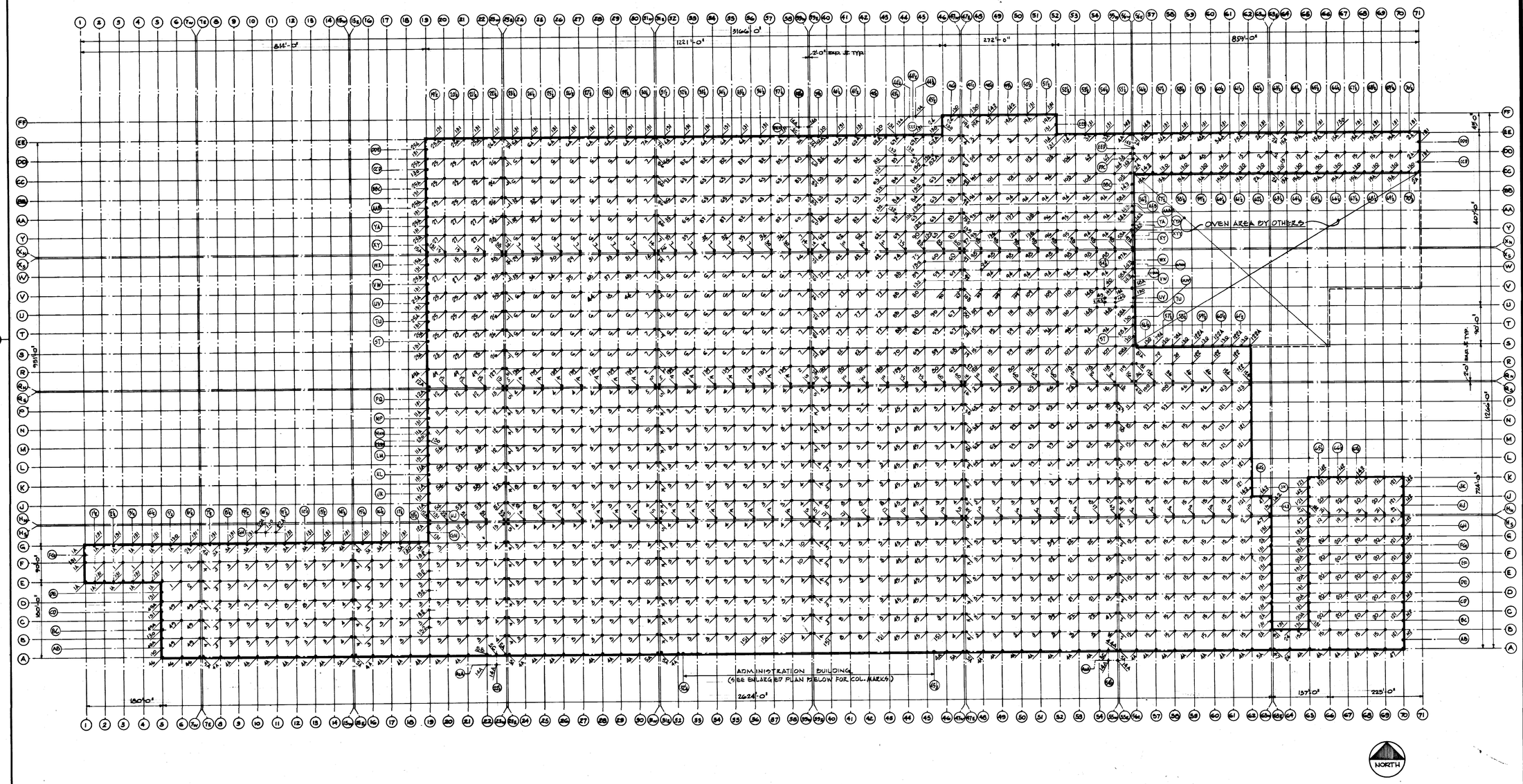
S-18

SHEET NUMBER

ARGO 115 REV. 12-69 K&E 17 0133 2-74 1790-

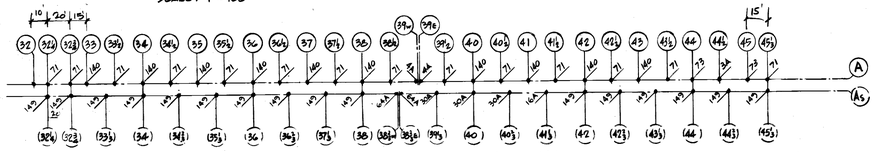
MAR 3 1978

PROJECT NO. SHEET NO.



MASTER COLUMN LOCATION PLAN

SCALE: 1" = 100'



ENLARGED PLAN ALONG COLUMN LINE "A"

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BID	J.E. Andrus	R. J. Heard
3-23-77	PRIME MECH & ELECT. REF.		
3-21-77	CAISSON REF.	R. J. Heard	J.E. Andrus
4-7-77	MET. ROOF DECK, MET. SIDING, PRECAST PANELS REF		
4-15-77	FIRE PROT. BID REF.		
4-22-77	CONC. PLENUM BID REF.		
4-22-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTED STAIR BID	R. J. Heard	R. J. Heard
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	DETAILING & FINISHING REF.		
5-29-77	REF. FOR BULL. #26		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
EFO#174	12-7-77	DG		
EFO#127	10-17-77	E.K.		
80	9-9-77	E.K.		MK/RR
85	9-9-77	E.K.		MK/RR
61	7-7-77	E.K.		
49	7-18-77	A.C.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE, DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHOPITY
TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

COLUMN LOCATION MASTER PLAN

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY ALCINI BROSKY

JOB CAPT. E. KUCZYNSKI D. LEE

S-19
SHEET NUMBER

PROJECT NO. SHEET NO.

COLUMN SCHEDULE

COLUMN NUMBER	B-8, C-8, D-8, E-8, F-8, B-9, C-9, D-9, E-9, F-9, B-10, C-10, F-10, B-11, C-11, F-11, B-12, C-12, F-12, B-13, C-13, F-13, B-14, C-14, D-14, E-14, F-14, B-16, C-16, D-16, E-16, F-16, B-17, C-17, D-17, E-17, F-17, B-18, C-18, D-18, E-18, F-18, B-19, C-19, D-19, E-19, F-19, B-20, C-20, D-20, E-20, F-20, B-21, C-21, D-21, E-21, F-21, B-22, C-22, D-22, E-22, F-22, B-24, C-24, D-24, E-24, F-24, G-24, G-25, C-25, D-25, E-25, F-25, G-25, B-26, C-26, D-26, E-26, F-26, G-26, B-27, C-27, D-27, E-27, F-27, G-27, B-28, C-28, D-28, E-28, F-28, G-28, B-29, C-29, D-29, E-29, F-29, G-29, B-30, C-30, D-30, G-30, U-26, K-26, L-24, M-24, N-24, P-24, L-25, M-25, N-25, P-25, L-26, M-26, N-26, P-26, J-27, K-27, L-27, M-27, N-27, J-28, K-28, L-28, M-28, N-28, P-28, J-29, K-29, L-29, M-29, N-29, P-29, J-30, K-30, L-30, M-30, P-32, P-33, N-32, N-33, EE-48, EE-49, EE-50, EE-51, P-27, G-48, B-48, B-53, B-54, G-28, U-32, K-32, L-32, M-32, J-33, K-33, L-33, M-33, J-34, K-34, L-34, M-34, N-34, P-34, J-35, K-35, L-35, M-35, N-35, P-35, J-36, K-36, L-36, M-36, N-36, P-36, J-37, K-37, L-37, M-37, N-37, P-37, J-38, K-38, L-38, M-38, N-38, P-38, B-32, C-32, D-32, E-32, F-32, G-32, B-33, C-33, D-33, E-33, F-33, G-33, B-34, C-34, D-34, E-34, F-34, G-34, B-35, C-35, D-35, E-35, F-35, G-35, G-36, C-36, D-36, E-36, F-36, G-36, C-37, D-37, E-37, F-37, G-37, C-38, D-38, E-38, K-40, L-40, M-40, N-40, P-40, K-41, L-41, M-41, N-41, P-41, K-42, L-42, M-42, N-42, P-42, K-43, L-43, M-43, N-43, P-43, J-46, K-46, L-46, M-46, N-46, P-46, H-44, H-44, H-45, H-45, Q-44, Q-45, D-41, E-41, F-41, G-41, C-40, D-40, E-40, F-40, G-40, D-42, E-42, F-42, G-42, C-43, D-43, E-43, F-43, G-43, C-46, D-46, E-46, F-46, G-46, C-48, D-48, E-48, F-48, J-48, K-48, C-49, D-49, E-49, F-49, J-49, K-49, C-50, D-50, E-50, F-50, J-50, K-50, C-51, D-51, E-51, F-51, J-51, K-51, J-52, K-52, J-53, K-53, K-54, G-49, G-50, G-51, B-48, B-49, B-50, B-51, Q-20, Q-21,	B-63w, C-63w, D-63w, E-63w, F-63w, G-63w, EE-56E, CC-56E, EE-63E, CC-63E, G-TW CC-71, DD-71 EE-71	XW-40, XW-41, XW-42, E-7W, QN-42, F-7W, HN-46, QN-43, HN-48, HN-49, HN-50, HN-51, Q-49, HN-52, HN-53, HN-56E, H5-56E, Q5-49, HN-57, H5-57, HN-58, H5-58, Q5-54, HN-59, H5-59, HN-60, H5-60, QN-53, HN-61, H5-61, HN-62, H5-62, QN-54, B-55E, C-55E, D-55E, E-55E, QN-55W, F-55E, G-55E, J-55E, K-55E, L-55W, L-55E, M-55E, DD-56E, DD-63W, DD-63E, XW-43, R-23E, R-31W, R-31E, R-39W, QN-48, QN-49, QN-40, QN-41,	E-3, E2, E-1, G6, E4, E5, G-2, F1, G1, G-5, G3, G4	F-2, F-3, F-5, F-6 E-6, F-4	COLUMN NUMBER
COLUMN TYPE	3							2A	2	1A	1	COLUMN TYPE
LIVE LOAD (IN KIPS)	80							45	45	80	80	LIVE LOAD (IN KIPS)
DEAD LOAD (IN KIPS)	45							25	25	45	45	DEAD LOAD (IN KIPS)
TOTAL LOAD (IN KIPS)	125							70	70	125	125	TOTAL LOAD (IN KIPS)
COLUMN — HIGH ROOF												HIGH ROOF
COLUMN — MAIN ROOF												MAIN ROOF
COLUMN — FIN. 1ST. FLOOR	W12x65							W12x65	W12x65	W14x103	W14x103	FIN. 1ST FLOOR
BASE PL. SIZE (TxWxL)	¾" x 14" x 1'-2"							¾" x 14" x 1'-2"	¾" x 14" x 1'-2"	¾" x 17" x 1'-5"	¾" x 17" x 1'-5"	BASE PL. SIZE (TxWxL)
BASE PL. TYPE	A							A	A	A	A	BASE PL. TYPE
ANCHOR BOLTS	2-7/8"ϕ x 2'-6" LG.							2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	ANCHOR BOLTS
DIM. FROM FIN. 1ST. FLOOR TO BOTT. B. PL.	2'-0" @ OTHERS 2'-6½" @ D-8, C-8, 2'-0" (EE-48) 2'-10" (EE-49)							1'-0" (CC-56E, EE-56E) 2'-10" (OTHERS)	5'-10" (R-23E, R-31W, R-31E, R-39W) 1'-0" (DD-56E) 2'-4" (F-7W, E-7W) 2'-0" (OTHERS)	2'-10"	1'-0" (OTHERS) 2'-6" (F-6, E-6)	DIM. FROM FIN. 1ST. FLOOR TO BOTT. B. PL.
REMARKS								PROV. 2-ANCHOR BOLTS FOR FUT. COL. SAME SIZE AS ABOVE. FOR COLS C-63W, D-63W E-63W, F-63W, G-63W EE-71, DD-71, CC-71 ONLY				REMARKS

COLUMN SCHEDULE (CONTINUED)

COLUMN NUMBER	A-22½ A-54½ EE-38½	A-22	A-7E, A-15W, A-15E, A-23W, A-23E, A-31W, A-31E, A-47W, A-47E, A-55E, A-63W	QN-23E, Q5-23E, QN-31E, Q5-31E, QN-31W, Q5-31W, QN-39W, Q5-39W, Q5-39E, Q5-47W, Q5-47E, HN-23E, H5-23E, HN-31W, H5-31W, HN-31E, H5-31E, HN-39W, H5-39W, H5-39E, H5-47W, H5-47E, H5-55W, HN-39E, HN-47W HN-47E	A-8, A-9, A-10, A-11, A-12, A-13, A-14, A-16, A-17, A-18, A-19, A-20, A-21 A-24, A-25, A-26, A-27, A-28, A-29, A-30, A-32 A-46, A-48, A-49, A-50, A-51, EE-50W, A-52, A-53, A-54, A-56E, A-57, A-58, A-59, A-60, A-61, A-62, A-65, A-66, A-67, A-68, A-69, G-7E, G-15W, G-15E	B-7E, C-7E, D-7E, E-7E, F-7E, B-15W, C-15W, D-15W, E-15W, F-15W, B-15E, C-15E, D-15E, E-15E, F-15E, B-23W, C-23W, D-23W, E-23W, F-23W, B-23E, C-23E, D-23E, E-23E, F-23E, G-23E, J-23E, K-23E, L-23E, M-23E, N-23E, P-23E, B-31W, C-31W, D-31W, G-31W, J-31W, K-31W, L-31W, M-31W, B-55W, E-31E, F-31E, G-31E, J-31E, K-31E, L-31E, M-31E, N-31E, P-31E, B-39W, C-39W, D-39W, E-39W, J-39W, K-39W, L-39W, M-39W, N-39W, P-39W, B-39E, C-39E, D-39E, E-39E, F-39E, G-39E, J-39E, K-39E, L-39E, M-39E, N-39E, P-39E, B-47W, C-47W, D-47W, E-47W, F-47W, G-47W, J-47W, K-47W, L-47W, M-47W, N-47W, P-47W, B-47E, C-47E, D-47E, E-47E, F-47E, G-47E, J-47E, K-47E, EE-47E, K-55W, HN-24, H5-24, HN-25, H5-25, HN-26, H5-26, HN-27, H5-27, HN-28, H5-28, HN-29, H5-29, HN-30, H5-30, HN-32, H5-32, HN-33, H5-33, HN-34, H5-34, HN-35, H5-35, HN-36, H5-36, HN-37, H5-37, HN-38, H5-38, H5-40, H5-41, H5-42, H5-43, H5-46, QN-24, Q5-24, QN-25, Q5-25, QN-26, Q5-26, QN-27, Q5-27, QN-28, Q5-28, QN-29, Q5-29, QN-30, Q5-30, QN-32, Q5-32, QN-33, Q5-33, QN-34, Q5-34, QN-35, Q5-35, QN-36, Q5-36, QN-37, Q5-37, QN-38, Q5-38, Q5-40, Q5-41, Q5-42, Q5-43, Q5-46, H5-48, H5-49, H5-50, H5-51, H5-52, H5-53, H5-54, G-23W,	A-44½, EE-54, G-8, G-9, G-10, G-11, G-12, G-13, G-14, G-16, G-17, G-18, G-19, EE-55W	COLUMN NUMBER
COLUMN TYPE	5C	5B	5A	5	4A	4					3A	COLUMN TYPE
LIVE LOAD (IN KIPS)	5	50	28	28	45	45					80	LIVE LOAD (IN KIPS)
DEAD LOAD (IN KIPS)	20	40	12	12	25	25					45	DEAD LOAD (IN KIPS)
TOTAL LOAD (IN KIPS)	25	90	40	40	70	70					125	TOTAL LOAD (IN KIPS)
COLUMN — HIGH ROOF												HIGH ROOF
COLUMN — MAIN ROOF												MAIN ROOF
COLUMN — FIN. 1ST FLOOR	W12x40	W12x53	W12x40	W12x40	W12x53	W12x53					W12x65	FIN. 1ST. FIN.
BASE PL. SIZE (TxWxL)	¾" x 10" x 1'-2"	¾" x 12" x 1'-2"	¾" x 10" x 1'-2"	¾" x 10" x 1'-2"	¾" x 12" x 1'-2"	¾" x 12" x 1'-2"					¾" x 14" x 1'-2"	BASE PL. SIZE (TxWxL)
BASE PL. TYPE	A	A	A	A	A	A					A	BASE PL. TYPE
ANCHOR BOLTS	2-7/8"ϕ x 2'-6" LG	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.					2-7/8"ϕ x 2'-6" LG.	ANCHOR BOLTS
DIM. FROM FIN. 1ST. FLOOR TO BOTT. OF B. PL.	2'-10"	2'-10"	2'-10"	2'-0"	1'-0" (EE-38W) 2'-10" (OTHERS)	5'-6" (BB-23W, BB-23E) 2'-4" (E-7W, F-7W) 2'-0" (OTHERS) 2'-10" (EE-47E) 2'-6½" (C-7E, D-7E)					2'-10"	DIM. FROM FIN. 1ST FLOOR TO BOTT. B. PL.
REMARKS	WIND COL. - PROVIDE VERT. SLOTTED CONN.		PROVIDE 2-ANCHOR BOLTS FOR FUTURE COL. SAME SIZE AS ABOVE. (FOR ALL COLUMNS ALONG COL. LINE "A" ONLY).									REMARKS

COLUMN SCHEDULE (CONTINUED)

COLUMN NUMBER	P-23W, N-23W, M-23W, L-23W, H5-22, H5-21, H5-20, QN-20, Q5-20, QN-21, Q5-21, QN-22, Q5-22	K-19, P-19, N-19, M-19, L-19, J-19	P-56E, P-59, P-60, P-20, P-21, P-22, N-20, N-21, N-22	E-31W, F-31W, F-39W, G-39W N-31W, P-31W	E-10, E-11, D-10, D-11, E-30, F-30, F-38, G-38, N-30, P-30, P-53	E-12, E-13, D-12, D-13, K-25, K-24, J-25, J-24, J-40, J-41, J-54 B-41, B-42 C-41, C-42 J-42, J-43	EE-23E, EE-31W, EE-31E, EE-39W	DD-23E, CC-23E, BB-23E, AA-23E, Y-23E, XN-24, XN-25, XN-26, XN-27, XN-28, XN-29, XN-30, Y-31W, AA-31W, BB-31W, CC-31W, DD-31W, S-39W, T-39W, U-39W, V-39W, Y-31E, XN-32, X5-32, XN-33, X5-33, XN-34, X5-34, XN-35, X5-35, XN-36, X5-36, X5-37, X5-38, W-39W, S-31E, T-31E, U-31E, V-31E, Y-39W, W-23E, V-23E, U-23E, T-23E, S-23E, W-31W, V-31W, U-31W, T-31W, S-31W, W-31E, Y-39E	EE-24, EE-25, EE-26, EE-27, EE-28, EE-29, EE-30, EE-32, EE-33, EE-34, EE-35, EE-36, EE-37, EE-38	DD-24, DD-25, DD-26, DD-27, DD-28, DD-29, DD-30, S-24, S-25, S-26, S-27, S-28, S-29, S-30, S-32, CC-24, CC-25, CC-26, CC-27, CC-28, CC-29, CC-30, S-33, S-34, S-35, S-36, S-37, S-38, T-32, T-33, BB-26, BB-27, BB-28, BB-29, BB-30, T-24, T-25, T-26, T-27, T-28, T-29, T-30, T-34, AA-26, AA-27, AA-28, AA-29, AA-30, T-35, T-36, T-37, T-38, U-38, U-37, Y-24, Y-25, Y-26, Y-27, Y-28, Y-29, Y-30, U-36, U-35, U-34, W-32, W-33, W-34, W-35, W-36, W-37, W-38, V-24, V-25, V-26, V-27, V-32, V-33, V-34, V-35, V-36, V-37, V-38, U-24, U-25, U-26, U-27, U-28, U-29, U-30, U-32, U-33, EE-47W	COLUMN NUMBER
COLUMN TYPE	12	11A	11	10	9	8	7A	7	6A	6	COLUMN TYPE
LIVE LOAD (IN KIPS)	45	80	80	95	130	200	60	60	110	110	LIVE LOAD (IN KIPS)
DEAD LOAD (IN KIPS)	25	45	45	75	95	120	30	30	45	45	DEAD LOAD (IN KIPS)
TOTAL LOAD (IN KIPS)	70	125	125	170	225	320	90	90	155	155	TOTAL LOAD (IN KIPS)
COLUMN — HIGH ROOF											HIGH ROOF
COLUMN — MAIN ROOF						W14x176					MAIN ROOF
COLUMN — FIN. 1ST. FLOOR	W12x92	W14x127	W14x127	W12x79	W14x87	W14x119	W12x65	W12x65	W12x72	W12x72	FIN. 1ST. FL.
BASE PL. SIZE (TxWxL)	¾" x 15" x 1'-3"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	1" x 15" x 1'-3"	1" x 17" x 1'-5"	1½" x 18" x 2'-1"	¾" x 14" x 1'-2"	¾" x 14" x 1'-2"	1" x 14" x 1'-2"	1" x 14" x 1'-2"	BASE PL. SIZE (TxWxL)
BASE PL. TYPE	A	A	A	A	A	B	A	A	A	A	BASE PL. TYPE
ANCHOR BOLTS	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	4-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	2-7/8"ϕ x 2'-6" LG.	ANCHOR BOLTS
DIM. FROM FIN. 1ST. FLOOR TO BOTT. B. PL.	2'-0"	2'-10"	2'-0"	2'-0"	2'-0"	2'-0"	2'-10"	2'-6" (XN-24, XN-25) 2'-0" (OTHERS) 5'-6" (BB-23E)	2'-10"	4'-6" (AA-26, AA-27) 2'-4" (Y-25) 2'-0" (OTHERS) 2'-10" (EE-47W)	DIM. FROM FIN. 1ST FLOOR TO BOTT. B. PL.
REMARKS											REMARKS

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. OTL BIDS		
3-23-77	PRIME MECH & ELECT REF.		
3-21-77	CAISSON REF.		
4-7-77	MST. ROOF DECK, MST. SIDING, PERIMETER FANDS REF.		
4-18-77	FIRE PROT. BID	REF.	
4-23-77	CONC. PLENUM	BID REF.	
4-23-77	1ST FL. CONC.	BID REF.	
5-20-77	SUPPORTING BEAMS & COLS.		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REF.		
5-26-77	REF. FOR	BULL. #24	

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
ERO#174	12-7-77	DG		
ERO#127	10-17-77	E.K.		
49	7-18-77	A.C.		
61	7-7-77	E.K.		
25	6-9-77	B.K.		
RC-99	4-15-77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

ARGONAUT — PLANT ENGINEERING AND CONSTRUCTION — MANUFACTURING STAFF — GENERAL MOTORS CORPORATION — DIVISION OF GENERAL MOTORS — 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN — ARCHITECTURE & ENGINEERING & REAL ESTATE

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

COLUMN SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION — 4500 P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY BROOKY

JOB CAPT. E. KUCZYNSKI B. LEE

S-20

SHEET NUMBER

ARGO 118 REV. 12-69 KSE 17 0133 5-74 1799-

MAR 8 1978

PROJECT NO. SHEET NO.

COLUMN SCHEDULE (CONTINUED)

COLUMN NUMBER	C-66, C-67, C-68, C-69, D-66, D-67, D-68, D-69, E-66, E-67, E-68, E-69, F-66, F-67, F-68, F-69, G-66, G-67, G-68, G-69, J-66, J-67, J-68, J-69,	FF-51, FF-52 FF-47E, FF-48, FF-50	HN-66, HO-66, HN-67, HO-67, HN-68, HO-68, HN-69, HO-69, T-47E, S-47E	V-29	HN-40, HN-41, HN-54, J-55W HN-42, HN-43	AS-41⅓	HN-55E HS-55E QN-59E QN-47E QN-56W QO-47E QO-55W	B-65 XN-19, XO-19, EE-57, EE-62, EE-64, EE-65, EE-66, EE-67, EE-68, EE-69, EE-70, CC-57 CC-58, CC-59, CC-60, CC-61, CC-62, CC-64, CC-65, CC-66, CC-68, CC-69, CC-70, CC-67	XN-20, XO-20, XN-21, XO-21, XN-22, XO-22, B-56E, B-57, B-58, B-59, B-60, B-61, B-62, C-56E, C-57, C-58, C-59, C-60, C-61, C-62, D-56E, D-57, D-58, D-59, D-60, D-61, D-62, E-56E, E-57, E-58, E-59, E-60, E-61, E-62, F-56E, F-57, F-58, F-59, F-60, F-61, F-62, G-56E, G-57, G-58, G-59, G-60, G-61, G-62, J-56E, J-57, J-58, J-59, J-60, J-61, K-56E, K-57, K-58, K-59, K-60, T-48, L-56E, L-57, L-58, L-59, L-60, T-49, M-56E, M-57, M-58, M-59, M-60, S-48 B-66, B-67, B-68, B-69, DD-57, DD-62, DD-64, DD-65, DD-66, DD-67, DD-68, DD-69, DD-70, S-49, K-61, N-56E, N-57, N-58, N-59, N-60	AXA-22, AXA-22½ AXA-54⅜ AXA-55W EEF-38½ EEF-39W	XN-23E, XO-23E XN-31W, XO-31W XN-31E, XO-31E XN-39W, XO-39W XN-39E	HO-23W QN-23W, QO-23W, QO-55E	HO-19, HN-19 QN-19, QO-19	COLUMN NUMBER
COLUMN TYPE	20	19A	19	18	17	16A	16	15A	15	14A	14	13	12A	COLUMN TYPE
LIVE LOAD (IN KIPS)	80	45	45	155	165		28	80	80	5	38	28	45	LIVE LOAD (IN KIPS)
DEAD LOAD (IN KIPS)	45	25	25	145	100		12	45	45	15	12	12	25	DEAD LOAD (IN KIPS)
TOTAL LOAD (IN KIPS)	125	70	70	300	265	130	40	125	125	20	50	40	70	TOTAL LOAD (IN KIPS)
COLUMN — HIGH ROOF					W14×78									HIGH ROOF
COLUMN — MAIN ROOF														MAIN ROOF
COLUMN — FIN. 1ST. FL.	W18×119	W12×79	W12×79	W14×103	W14×103		W12×53	W14×95	W14×95	W10×88	W12×53	W12×65	W12×92	FIN. 1ST FL.
BASE PL. SIZE (TxWxL)	1" x 17" x 1'-5"	¾" x 14" x 1'-2"	¾" x 14" x 1'-2"	1½" x 18" x 2'-1"	1¼" x 18" x 1'-6"		¾" x 12" x 1'-2"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	¾" x 12" x 1'-0"	¾" x 12" x 1'-2"	¾" x 14" x 1'-2"	1" x 15" x 1'-3"	BASE PL. SIZE (TxWxL)
BASE PL. TYPE	A	A	A	B	C	A	A	A	A	"A"	"A"	A	A	BASE PL. TYPE
ANCHOR BOLTS	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	ANCHOR BOLTS
DIM. FROM FIN. 1ST. FL. TO BOTT. OF B. PL.	2'-0"	2'-10"	2'-0"	2'-0"	2'-0"	2'-10"	2'-0"	2'-10"	~~2'-6½"~~ (E-61, F-62, E-61, E-62) 2'-10" (L-60, J-59, J-60, J-61, K-59) 2'-0" (OTHERS)	2'-10"	2'-0"	2'-0"	6'-4" (QN-19, QS-19) 2'-10" (OTHERS)	DIM. FROM FIN. 1ST. FL. TO BOTT. B. PL.
REMARKS		PROVIDE 2 ANCHOR BOLTS FOR FUTURE COL. SAME SIZE AS ABOVE.		EXTEND COLUMN ABOVE ROOF TO SUPPORT COOLING TOWER.										REMARKS

COLUMN SCHEDULE (CONTINUED)

COLUMN NUMBER	AS-39⅓, AS-40 AS-40⅔	XO-25, XO-26, XN-37, XN-38,	XO-24, XO-27,	AA-23W, Y-23W	AA-20, AA-21, AA-22, Y-20, Y-21, Y-22, W-20, W-21	EE-23W	S-23W, T-23W, U-23W, BB-23W, CC-23W, DD-23W	S-19, T-19, U-19, V-19, W-19, Y-19, AA-19, BB-19, CC-19, DD-19, EE-19, EE-20, EE-21, EE-22	S-20, S-21, S-22, T-20, T-21, T-22, U-20, U-21, U-22, V-20, V-21, BB-20, BB-21, BB-22, CC-20, CC-21, CC-22, DD-20, DD-21, DD-22	A-64, B-64, FF-46, FF-47W	V-22, W-22,	GH-10 GH-11	C-53, C-54, E-40, D-52, E-52, F-52, G-53, G-54, S-41, S-42, S-43	D-53, D-54 E-53, E-54, F-53, F-54,	C-65, D-65, E-65, F-65, G-65,	COLUMN NUMBER
COLUMN TYPE	30A	30	29	28	27	26A	26	25A	25	24	23	22A	22	21	20A	COLUMN TYPE
LIVE LOAD (IN KIPS)		170	60	80	125	60	60	110	110	50	160	45	180	280	80	LIVE LOAD (IN KIPS)
DEAD LOAD (IN KIPS)		110	30	35	50	30	30	45	45	25	110	25	150	250	45	DEAD LOAD (IN KIPS)
TOTAL LOAD (IN KIPS)	160K	280	90	115	175	90	90	155	155	75	270	70	330	530	125	TOTAL LOAD (IN KIPS)
COLUMN — HIGH ROOF		W14×78														HIGH ROOF
COLUMN — MAIN ROOF																MAIN ROOF
COLUMN — FIN. 1ST FL.	W14×119		W12×79	W12×92	W14×142	W12×92	W12×92	W14×136	W14×136	W14×119	W14×167	W14×87	W14×87	W14×103	W14×119	FIN. 1ST FL.
BASE PL. SIZE (TxWxL)	—	1½" x 18" x 1'-6"	¾" x 14" x 1'-2"	¾" x 15" x 1'-3"	1" x 18" x 1'-6"	¾" x 15" x 1'-3"	¾" x 15" x 1'-3"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	1¼" x 18" x 1'-6"	¾" x 17" x 1'-5"	1½" x 18" x 2'-1"	2'-4" x 22" x 2'-4"	1" x 17" x 1'-5"	BASE PL. SIZE (TxWxL)
BASE PL. TYPE	A	C	A	A	A	A	A	A	A	A	C	A	B	Ba	A	BASE PL. TYPE
ANCHOR BOLTS	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-1"φ x 3'-0" LG.	2-⅞"φ x 2'-6" LG.	ANCHOR BOLTS
DIM. FROM FIN. 1ST. FL. TO BOTT. OF B. PL.	2'-10"	2'-4" (XO-25) 2'-0" (OTHERS)	2'-4" (XO-24) 2'-0" (OTHERS)	2'-0"	2'-4" (W-21, AA-21 W-20, AA-20, AA-22) 2'-0" (OTHERS)	2'-10"	5'-6" (DD-23W) 2'-0" (OTHERS)	6'-4" (S-19) 2'-10" (OTHERS)	4'-0" (DD-20, BB-21) 5'-6" (DD-22) 2'-0" (OTHERS)	2'-10"	2'-4" (W-22) 2'-0" (OTHERS)	2'-10"	2'-0"	2'-0"	2'-10"	DIM. FROM FIN. 1ST. FL. TO BOTT. OF B. PL.
REMARKS										PROVIDE 2 ANCHOR BOLTS FOR FUTURE COL. SAME SIZE AS ABOVE, (FOR A-64 FF-46, FF-47W ONLY)						REMARKS

COLUMN SCHEDULE (CONTINUED)

COLUMN NUMBER	B-44, B-45, C-44, C-45, D-44, D-45, E-44, E-45, F-44, F-45, G-44, G-45, J-44, J-45, K-44, K-45, L-44, L-45, M-44, M-45, N-44, N-45, P-44, P-45.	A-55W	V-28, V-30	HN-55W	D-55W, E-55W, F-55W, XO-40, XO-41, XO-42, XO-43	C-55W, G-55W.	UV-54⅜ V-54⅜	C-52, G-52	XN-23W, XO-23W R-39E, N-55E, DD-56W, M-47E, N-47E, P-47E, M-55W, N-55W, P-55W	W-29	QN-56E QN-58	W-24, Y-32, W-27, Y-33, AA-32, Y-36	EE-58, EE-61,	W-25, W-26, DD-58, DD-61 Y-37, Y-38	XO-29	AA-24, BB-24 AA-25, BB-25 Y-34, Y-35	XO-28, XO-30,	COLUMN NUMBER
COLUMN TYPE	45	44A	44	43	42	41	40	39	38	37	36	35	34A	34	33	32	31	COLUMN TYPE
LIVE LOAD (IN KIPS)	147	33	119	150	150	100	80	140	50	448	97	110	230	230	395	160	240	LIVE LOAD (IN KIPS)
DEAD LOAD (IN KIPS)	45	32	81	80	125	75	105	100	25	247	38	45	120	120	170	95	110	DEAD LOAD (IN KIPS)
TOTAL LOAD (IN KIPS)	192	65	200	230	275	175	185	240	75	695	135	155	350	350	565	255	350	TOTAL LOAD (IN KIPS)
COLUMN — HIGH ROOF				W14×78							W14×61		W14×78	W14×78	W14×78		W14×78	HIGH ROOF
COLUMN — MAIN ROOF																		MAIN ROOF
COLUMN — FIN. 1ST. FL.	W12×92	W12×40	W14×95	W14×95	W12×79	W12×65	W14×78	W14×87	W12×72	W14×246	W14×103	W14×87	W14×142	W14×142	W14×202	W14×95	W14×127	FIN. 1ST. FL.
BASE PL. SIZE (TxWxL)	1" x 16" x 1'-4"	¾" x 10" x 1'-2"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	1¼" x 18" x 1'-6"	1" x 14" x 1'-2"	1" x 18" x 1'-6"	1" x 17" x 1'-5"	¾" x 14" x 1'-2"	2¾" x 24" x 2'-6"	¾" x 17" x 1'-5"	1" x 17" x 1'-5"	1½" x 20" x 2'-1"	1½" x 18" x 2'-1"	2'-2" x 22" x 2'-2"	1" x 17" x 1'-5"	1½" x 18" x 2'-1"	BASE PL. SIZE (TxWxL)
BASE PL. TYPE	C	A	C	C	C	A	C	C	A	Ba	A	A	B	B	Ba	C	B	BASE PL. TYPE
ANCHOR BOLTS	4-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-1¼"φ x 3'-0" LG.	2-⅞"φ x 2'-6" LG.	2-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	4-1"φ x 3'-0" LG.	4-⅞"φ x 2'-6" LG.	4-⅞"φ x 2'-6" LG.	ANCHOR BOLTS
DIM. FROM FIN. 1ST. FL. TO BOTT. OF B. PL.	2'-0"	2'-10"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	5'-10" (R-39E) 1'-0" (DD-56W) 2'-0" (OTHERS)	2'-0"	2'-0"	2'-0"	2'-10"	2'-0"	2'-0"	2'-4" (Y-34) 4'-0" (BB-24, BB-25) 4'-6" (AA-24, AA-25) 2'-0" (OTHERS)	2'-0"	DIM. FROM FIN. 1ST. FL. TO BOTT. OF B. PL.
REMARKS			EXTEND COLUMN ABOVE ROOF TO SUPPORT COOLING TOWER.															REMARKS

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT ST'L BIDS	E. Kuczynski	R. J. Meade
3-23-77	PRIME MSCH	& ELECT REF.	
3-21-77	CAISSON REF	R. J. Meade	E. Kuczynski
4-7-77	MET. ROOF DECK, MET	SIDING, PRECAST	PANELS REF.
4-28-77	CONC. PLENUM	BID REF.	
4-28-77	1ST FL. CONC.	BID REF.	
5-20-77	SUPPORTED STAIR BID	R. Wanek	R. J. Meade
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PRINTING & FINISH NO. REF		
5-26-77	REF. FOR	BULL. #24	

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
EO #127	10-17-77	E.K.		
49	7-18-77	A.G.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		
[illegible]	4-15-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT — DIVISION OF GENERAL MOTORS — STRUCTURE & ENGINEERING

PLANT ENGINEERING AND CONSTRUCTION MANUFACTURING STAFF

GENERAL MOTORS CORPORATION 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

A NEW, SEVERE, SHOCK CONDITION

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

COLUMN SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

4500 — P.E.&C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY F. BROSKY

JOB CAPT. E. KUCZYNSKI, B. LEE

S-21 — SHEET NUMBER

ARGO 118 REV. 12-69 KOBE 17 0133 8-74 1750M

MAR 3 1978

PROJECT NO. SHEET NO.

COLUMN NUMBER	COLUMN TYPE	LIVE LOAD (IN KIPS)	DEAD LOAD (IN KIPS)	TOTAL LOAD (IN KIPS)	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)	BASE PL. SIZE (TxWxL)	BASE PL. TYPE	ANCHOR BOLTS	DIM. FROM FIN. 1ST FL. TO BOTT. OF B.PL.	REMARKS
T-46, W-46, M-50, N-50, P-50, S-50, L-51, M-52, N-52, S-46, DD-48, DD-49, DD-50, U-48, U-49, T-50	59	165	75	240	W14x78 / W14x136	1 x 17" x 1'-5"	C	4-7/8"ϕ x 2'-6" LG.	2'-10" (DD-48, DD-49, DD-50) 2'-0" (OTHERS)	
T-56W, U-56W V-56W, W-56W Y-56W, AA-56W DD-56W	58A	124	156	290	W14x142	1½" x 18" x 2'-1"	D	4-7/8"ϕ x 2'-6" LG.	2'-10" (T-56W & U-56W) V-56W) 1'-0" (OTHERS)	
K-22	58	230	200	430	W14x142	1¾" x 20" x 2'-1"	Ba	4-1"ϕ x 3'-0" LG.	2'-0"	
P-57, P-58	57	128	65	193	W14x78 / W14x136	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
M-20, M-22,	56	140	100	240	W14x127	1" x 17" x 1'-5"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
J-21, K-21, L-21, J-22	55	280	250	530	W14x176	2" x 22" x 2'-2"	Ba	4-1"ϕ x 3'-0" LG.	2'-0"	
J-20, K-20, L-20, M-21, L-22	54	180	150	330	W14x136	1½" x 18" x 2'-1"	B	4-7/8"ϕ x 2'-6" LG.	2'-0"	
HN-23W	53	80	60	140	W12x92	1" x 15" x 1'-3"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
HN-20 K-23W	52	100	75	175	W14x95	1" x 16" x 1'-4"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
HN-21, HN-22 J-23W	51	150	125	275	W14x95	1¼" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
V-23W, W-23W	50	120	80	200	W14x127	1" x 17" x 1'-5"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
B-5, C-5, D-5 R-19	49A	80	45	125	W14x167	1" x 18" x 1'-6"	A	6-7/8"ϕ x 2'-6" LG.	6'-4" (@ R-19) 2'-10" (@ OTHERS)	
B-6, B-7W, C-6, C-7W, D-6, D-7W R-20, R-21, R-22	49	80	45	125	W14x167	1" x 18" x 1'-6"	A	2-7/8"ϕ x 2'-6" LG.	8'-10" (R-20, R-21, R-22) 2'-6" (C-7W, D-7W) 2'-0" (OTHERS)	
EE-59, EE-60	48A	300	165	465	W14x78 / W14x167	2" x 20" x 2'-2"	Ba	4-1"ϕ x 3'-0" LG.	2'-10"	
DD-59, DD-60 W-25 W-30	48	300	165	465	W14x78 / W14x167 @ DD-59, DD-60 / W14x167 @ W-25, W-30	2" x 20" x 2'-2"	Ba	4-1"ϕ x 3'-0" LG.	2'-0"	
A-63E, B-63E, HN-63W, J-63W HN-70, HS-70 A-70, R-47E P-55E, FF-49 HS-63W, HN-65 HS-65	47	45	25	70	W14x87	¾" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	G-82 (A-70, HN-70, HS-70 G-47 (U-63W, FF-49, HN-65 HN-63, HS-65 & HN-67) 5'-10" (R-47E) 2'-0" (OTHERS)	PROVIDE 2-ANCHOR BOLTS FOR FUTURE COL. SAME SIZE AS ABOVE FOR A-63E, HN-63W J-63W, FF-49, HS-63W
A-5, A-6, A-7W Q5-56E, Q5-59 Q5-60, Q4-59 Q4-60,	46	45	25	70	W14x95	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-0" (Q5-56E) 2'-10" (OTHERS)	PROVIDE 2-ANCHOR BOLTS FOR FUTURE COL. SAME SIZE AS ABOVE (FOR A-5, A-6 & A-7W).

COLUMN NUMBER	COLUMN TYPE	LIVE LOAD (IN KIPS)	DEAD LOAD (IN KIPS)	TOTAL LOAD (IN KIPS)	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)	BASE PL. SIZE (TxWxL)	BASE PL. TYPE	ANCHOR BOLTS	DIM. FROM FIN. 1ST FL. TO BOTT. OF B.PL.	REMARKS
A-36½, A-37½, A-38½ A-39½, A-40½, A-41½ A-42½, A-43½, A-33½, A-34½, A-35½ A-32½, A-23¾ A-45½	71	17	48	65	W12x65	¾" x 14" x 1'-2"	A	2-7/8"ϕ x 2'-6" LG.	2'-10"	
S-44	70	200	100	300	W14x127	1½" x 18" x 2'-1"	B	4-7/8"ϕ x 2'-6" LG.	2'-0"	
EE-44, EE-45	69A	180	60	240	W14x119 (SEE REM. MDC)	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-10"	AT EE-45, EXTEND COL. TO SUPPORT PIPE TRAY LEB
S-45, Y-44	69	147	45	192	W14x119	1" x 17" x 1'-5"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
S-47W	68	140	55	195	W14x95	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
R-47W, T-47W U-47W, V-47W W-47W	67	140	55	195	W14x119	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	5'-10" (@ R-47W) 2'-0" (OTHERS)	
Q5-52 AA-33 BB-32 DD-32	66	158	65	223	W14x103	1" x 17" x 1'-5"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
QW-51 Q5-51	65	140	55	195	W14x95	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
A5-33¾W A5-33¾E	64A		65	65			A	2-7/8"ϕ x 2'-6" LG.	2'-10"	
L-48, L-49, L-53, L-54	64	80	45	125	W12x78	¾" x 14" x 1'-2"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
M-51, N-51, P-51, P-52 Y-46, AA-46, BB-46, CC-46, AA-45, DD-45, BB-43, CC-43, BB-42, CC-42, BB-41, CC-41, BB-40, CC-40, BB-38, CC-38, BB-37, CC-37, BB-36, CC-36, BB-35, CC-35, BB-34, CC-34, BB-33, CC-33	63	269	114	383	W14x158	1¾" x 18" x 2'-1"	Ba	4-7/8"ϕ x 2'-6" LG.	2'-4" (CC-35, CC-36, CC-37) (BB-35, BB-36, BB-37) 2'-0" (FOR OTHERS)	
EE-40, EE-41, EE-42, EE-43, EE-46	62A	80	45	125	W14x87	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-10"	
M-48, N-48, P-48, M-49, N-49, P-49, M-53, N-53, M-54, N-54, P-54, Y-40, Y-41, Y-42, Y-43, DD-54 DD-55W	62	80	45	125	W14x87	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
L-50, L-52	61	130	63	193	W14x127	1" x 17" x 1'-5"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
QW-46, Q5-50, X5-46, AA-39E, DD-39W, QW-47W, Q5-52, XW-47W, AA-39W, DD-39E, DD-47W, DD-47E, QW-50, X5-47W,	60	93	42	135	W14x87	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-10" (DD-47W, DD-47E) 2'-0" (OTHERS)	

COLUMN NUMBER	COLUMN TYPE	LIVE LOAD (IN KIPS)	DEAD LOAD (IN KIPS)	TOTAL LOAD (IN KIPS)	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)	BASE PL. SIZE (TxWxL)	BASE PL. TYPE	ANCHOR BOLTS	DIM. FROM FIN. 1ST FL. TO BOTT. OF B.PL.	REMARKS
DD-46	82A	228	107	335	W14x61 / W14x103	1½" x 18" x 2'-0"	"D"	4-7/8"ϕ x 2'-6" LG.	2'-10"	
AA-36, AA-37, AA-38, AA-40, AA-41, AA-42, AA-43, DD-33, DD-34, DD-35, DD-36, DD-37, DD-38, DD-40, DD-41, DD-42, DD-43,	82	195	75	270	W14x61 / W14x103	1¼" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	3'-6" (AA-36, AA-37) 2'-0" (OTHERS)	
S-56E	81A	140	55	195	W14x78 / W14x211	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-10"	
K-56E	81	140	55	195	W14x78 / W14x211	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	5'-10"	
U-45 V-45 R-46 R-50	80	165	75	240	W14x78 / W14x167	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-0" @ U-45, V-45 5'-10" @ R-46, R-50	
S-57	79A	269	114	383	W14x78 / W14x287	¾" x 18" x 2'-3"	Ba	4-7/8"ϕ x 2'-6" LG.	2'-10"	
K-57	79	269	114	383	W14x78 / W14x287	1¾" x 18" x 2'-3"	Ba	4-7/8"ϕ x 2'-6" LG.	5'-10"	
S-58	78A	165	75	240	W14x78 / W14x211	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-10"	
K-58	78	165	75	240	W14x78 / W14x211	1" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	5'-10"	
T-40, T-41, T-42, T-43, U-40, U-41, U-42, U-43, V-40, V-41, V-42, V-43, W-40, W-41, W-42, W-43	77	280	250	530	W14x136	2¼" x 22" x 2'-2"	Ba	4-1"ϕ x 3'-0" LG.	2'-0"	
T-39E, U-39E, V-39E, W-39E	76	190	85	275	W14x87	1¼" x 18" x 1'-6"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
QW-44, QW-45, XW-44, X5-45	75	80	25	105	W12x79	¾" x 14" x 1'-2"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	
X5-44	74	147	63	210	W12x79	1" x 16" x 1'-4"	C	4-7/8"ϕ x 2'-6" LG.	2'-0"	
X5-39E A-44	73	77	63	140	W12x65	1" x 14" x 1'-2"	A	2-7/8"ϕ x 2'-6" LG.	2'-0" @ X5-39E 2'-10" @ A-44	
S-39E Q5-53	72	100	75	175	W14x87	1" x 17" x 1'-5"	A	2-7/8"ϕ x 2'-6" LG.	2'-0"	

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BLDG		
5-23-77	PRIMB MECH	B ELECT REF.	
3-21-77	CAISSON REF.		
4-7-77	MST. ROOF DECK, MISC SKYLINGS, PRECAST	PANELS REF.	
4-18-77	FIRE PROT. BLD	REF.	
4-23-77	CONC. PLENUM	BLD REF.	
4-23-77	1ST FL. CONC.	BLD REF.	
5-10-77	SUPPORTS SLAB		
5-25-77	MISC. STL REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISH INFO REF		
5-24-77	REF. FOR	BULL #26	

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
61	7-7-77	E.K.		
28	6-9-77	E.K.		
RC-#3	4-15-77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

ARGONAUT — GENERAL MOTORS CORPORATION — DIVISION OF GENERAL MOTORS & 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN — ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION & MAINTENANCE

PLANT ENGINEERING AND CONSTRUCTION — MANUFACTURING STAFF

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION — OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

COLUMN SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION — P. E. & C. PROJECT NUMBER: 4500

DATE: 3-8-77

DRAWN BY: BROSKY

JOB CAPT.: E. KUCZYNSKI, B. LEE

S-22

SHEET NUMBER

ANCO 118 REV. 12-69 K&E 17 0193 5-74 1790-

MAR 3 1978

PROJECT NO. SHEET NO.

COLUMN NUMBER	COLUMN TYPE	LIVE LOAD (IN KIPS)	DEAD LOAD (IN KIPS)	TOTAL LOAD (IN KIPS)	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)	BASE PL. SIZE (TxWxL)	BASE PL. TYPE	ANCHOR BOLTS	DIM. FROM FIN. 1ST FLOOR TO BOTT. OF B.PL.	REMARKS
Q-57, Q-58	100	93	42	135	W14x61 / W14x135	1" x 17" x 1'-5"	A	2-7/8" ϕ x 2'-6" LG.	2'-0"	
CC-47e	99	156	105	261	W14x78 / W14x119	1½" x 18" x 1'-6"	C	4-7/8" ϕ x 2'-6" LG.	2'-0"	
X-45 X-46 X-47 X-48 X-49 X-50 X-51 X-52 X-53 X-54 X-55w, Xu-45 Xu-46 Xu-47 Xu-50 Xu-51 Xu-52 Xu-53 Xu-54 Xu-55w	98	134	136	290	W14x136	1½" x 18" x 1'-6"	C	4-7/8" ϕ x 2'-6" LG.	1'-0"	
X-56w, Xu-56w	97A	70	80	150	W14x103	1" x 17" x 1'-5"	A	2-7/8" ϕ x 2'-6" LG.	1'-0"	
X-47e, Xu-47e	97	70	80	150	W14x103	1" x 17" x 1'-5"	A	2-7/8" ϕ x 2'-6" LG.	2'-0"	
Y-52, AA-52	96	426	329	755	W14x287	3" x 26" x 2'-6"	Ba	4-1¼" ϕ x 3'-0" LG.	1'-0"	
Y-53, AA-53	95	362	308	670	W14x237	2½" x 24" x 2'-6"	Ba	4-1¼" ϕ x 3'-0" LG.	1'-0"	
T-52, T-53, T-54, T-55w, W-48, W-49, W-50, W-51, W-52, W-53, W-54, W-55w, Y-54, Y-55w, AA-54, AA-55w, BB-48, BB-49, BB-50, BB-51, BB-52, BB-53, BB-54, BB-55w, CC-52	94	285	285	570	W14x237	2½" x 22" x 2'-4"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0" (T-52, T-53, T-54, T-55w, CC-52), 1'-0" (OTHERS)	
Y-48, AA-48	93	424	396	820	W14x314	3¼" x 26" x 2'-8"	Ba	4-1¼" ϕ x 3'-0" LG.	1'-0"	EXTEND COL. ROOF TO SUPPORT BILLINGS & COOLING TOWER
W-47e, BB-47e	92	134	156	290	W14x142	1½" x 18" x 2'-1"	B	4-7/8" ϕ x 2'-6" LG.	2'-0"	
CC-32	91	145	75	270	W14x136	1½" x 18" x 1'-6"	C	4-7/8" ϕ x 2'-6" LG.	2'-0"	
V-46, U-46, Y-45	90	190	110	300	W14x167	1½" x 18" x 2'-0"	B	4-7/8" ϕ x 2'-6" LG.	2'-0"	
T-45, W-45	89	147	45	192	W14x136	1" x 17" x 1'-5"	C	4-7/8" ϕ x 2'-6" LG.	2'-0"	
T-44, U-44, V-44, W-44	88	255	145	400	W14x167	1¾" x 18" x 2'-2"	Ba	4-1" ϕ x 3'-0" LG.	2'-0"	
AA-34, AA-35	87	245	125	370	W14x127	1¾" x 18" x 2'-1"	Ba	4-7/8" ϕ x 2'-6" LG.	2'-0"	
AA-31e, BB-31e, CC-31e, DD-31e	86	60	30	90	W14x87	¾" x 17" x 1'-5"	A	2-7/8" ϕ x 2'-6" LG.	2'-0"	
AA-44, DD-44	85	225	75	300	W14x142	1½" x 18" x 2'-1"	B	4-7/8" ϕ x 2'-6" LG.	2'-0"	
BB-44, CC-44, BB-45, CC-45	84	336	114	430	W14x167	2" x 20" x 2'-2"	Ba	4-1" ϕ x 3'-0" LG.	2'-0"	
Xn-45, Xn-46, Y-47w, AA-47w, BB-47w, CC-47w, BB-39w, BB-39e, CC-39w, CC-39e	83	140	55	195	W14x87	1" x 17" x 1'-5"	A	2-7/8" ϕ x 2'-6" LG.	2'-0"	

COLUMN NUMBER	COLUMN TYPE	LIVE LOAD (IN KIPS)	DEAD LOAD (IN KIPS)	TOTAL LOAD (IN KIPS)	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)	BASE PL. SIZE (TxWxL)	BASE PL. TYPE	ANCHOR BOLTS	DIM. FROM FIN. 1ST FLOOR TO BOTT. OF B.PL.	REMARKS
R-53, R-54, R-55w	118	165	75	240	W14x142 / W14x176	1" x 18" x 1'-6"	C	4-7/8" ϕ x 2'-6" LG.	5'-10"	
R-52	117	212	88	300	W14x176	1½" x 18" x 2'-2"	B	4-7/8" ϕ x 2'-6" LG.	5'-10"	
R-51	116	269	114	383	W14x202	1¾" x 18" x 2'-2"	Ba	4-7/8" ϕ x 2'-6" LG.	5'-10"	
DD-51	115	173	127	300	W14x142	1½" x 18" x 2'-1"	B	4-7/8" ϕ x 2'-6" LG.	2'-10"	
EE-52, EE-53	114	161	75	236	W14x142	1" x 18" x 1'-6"	C	4-7/8" ϕ x 2'-6" LG.	2'-10"	
U-52	113	276	238	514	W14x219	2½" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	
U-51	112	323	180	503	W14x167	2" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	
U-50	111	212	88	300	W14x142	1½" x 18" x 2'-1"	B	4-7/8" ϕ x 2'-6" LG.	2'-0"	
U-53, V-53	110	276	238	514	W14x219	2½" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	
V-48, V-49, V-50, V-51, V-52	109	267	189	456	W14x202	2" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	
V-47e, S-56w	108, 108A	134	116	250	W14x142	1" x 18" x 1'-6"	C	4-7/8" ϕ x 2'-6" LG.	2'-0" @ V-47E (TYPE 108), 2'-10" @ S-56W (TYPE 108A)	
S-52, S-53, S-54, S-55w, T-51	107	267	189	456	W14x184	2" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	
S-51	106	259	150	409	W14x176	1¾" x 18" x 2'-2"	Ba	4-1" ϕ x 3'-0" LG.	2'-0"	
CC-56w	105	102	83	185	W14x119	1" x 17" x 1'-5"	A	2-7/8" ϕ x 2'-6" LG.	1'-0"	
CC-54, CC-55w, DD-53	104	187	183	370	W14x142	1¾" x 18" x 2'-1"	Ba	4-7/8" ϕ x 2'-6" LG.	2'-0"	
CC-53, DD-52	103	237	220	457	W14x187	1" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0" CC-53, 2'-10" @ DD-52	
CC-51	102	276	238	514	W14x202	2½" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	
CC-48, CC-49, CC-50	101	267	189	456	W14x167	2" x 20" x 2'-2"	Ba	4-1¼" ϕ x 3'-0" LG.	2'-0"	

COLUMN NUMBER	COLUMN TYPE	LIVE LOAD (IN KIPS)	DEAD LOAD (IN KIPS)	TOTAL LOAD (IN KIPS)	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)	BASE PL. SIZE (TxWxL)	BASE PL. TYPE	ANCHOR BOLTS	DIM. FROM FIN. 1ST FLOOR TO BOTT. OF B.PL.	REMARKS
COLUMNS FOR SEPARATE PRICE: LINE "FB": 1, LINE "B": CD, DE, LINE "E": 1½, 2½, 3½, 4½, LINE "D": 6½, 6½. LINE "G": 1½, 2½, 3½, 6½, 7½, 8½, 9½, 12½, 11½, 13½, 14½, 15½, 16½, 17½, 4½. LINE "G3W": BC, CD, DE, EF, FG, GH. LINE "G5": BC, CD, DE, EF, FG, GH. XY, YA, AAB, BBC-19, DDE; LINE "19": GH, HJ, JK, KL, LM, NP, PQ, ST, TU, UV, VW, WX; LINE "EE": 50½, 51½. LINE "EE5": EG. LINE "T": CCD, DDE, LINE "EE": 1½, 2½, 2½, 2½, 3½, 4½, 5½, 6½, 7½, 8½, 9½, 10½, 11½, 12½, 13½, 14½, 15½, 16½, 17½, 18½, 19½, 20½, 21½, 22½, 23½, 24½, 25½, 26½, 27½, 28½, 29½, 30½, 31½, 32½, 33½, 34½, 35½, 36½, 37½, 38½, 39½, 40½, 41½, 42½, 43½, 44½, 45½, 46½, 47½, 48½, 49½, 50½, 51½, 52½, 53½, 54½, 55½, 56½, 57½, 58½, 59½, 60½, 61½, 62½, 63½, 64½, 65½, 66½, 67½, 68½, 69½, 70½.	AA-44½, AA-45½, AAB-43, BBC-43, CCD-43, DD-43½, DD-44½, YW-45, CD-19, DE-19, EF-19, FG-19, BC-19, WX-45, XY-45, YA-45, AAD-45, BBC-45, CCD-45, DD-45½	MNN-19, FF-46½, EEF-46, MNM-19, FF-47½, S-56½, S-57½, S-58½, S-59½, S-60½, S-61½, ST-56W, TU-56w, UV-56w, CC-57½, CC-58½, CC-59½, CC-60½, CC-61½, CC-62½, CC-63½, CC-64½, CC-65½, CC-66½, CC-67½, CC-68½, CC-69½, CC-70½, AB-15, GH-10½, G-5½, CCD-19, EE-60½, EE-39½, EE-42½, EE-45½, G-18½, BC-5	R-23W	QW-57	R-44, R-45	QW-61, QW-62	Q5-61, Q5-62	S-59, S-60, S-61, S-62	R-59, R-60, R-61, R-62	B-70, C-70, D-70, E-70, F-70, G-70, J-70, K-70, L-61, M-61, N-61, P-61; K-62, L-62, M-62, N-62, P-62, K-63, J-62, R-40; K-65, L-66, K-67, K-68, P-63, J-65	R-48, R-49, R-41, R-42, R-43	R-56W	
131	132	130	127	126	125	124	123	122A	122	121	120	119	COLUMN TYPE
	—	—	45	140	147	45	45	80	80	80	80	93	LIVE LOAD (IN KIPS)
	—	—	25	55	45	25	25	45	45	45	45	42	DEAD LOAD (IN KIPS)
15	15	15	70	195	192	70	70	125	125	125	125	135	TOTAL LOAD (IN KIPS)
W14x84	W12x97	W14x84	W14x95	W14x78 / W14x103	W14x142	W14x187	W14x103	W14x176	W14x176	W14x142	W14x95	W14x61 / W14x119	COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST FL.)
¾" x 9" x 1'-4"	¾" x 9" x 1'-2"	¾" x 9" x 1'-4"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	1" x 18" x 1'-6"	1" x 17" x 1'-5"	¾" x 17" x 1'-5"	1" x 18" x 1'-6"	1" x 18" x 1'-6"	1" x 18" x 1'-6"	1" x 17" x 1'-5"	1" x 17" x 1'-5"	BASE PL. SIZE (TxWxL)
A	A	A	A	A	C	A	A	A	A	A	A	A	BASE PL. TYPE
2-7/8" ϕ x 2'-6" LG.	2-¾" ϕ x 2'-0" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	4-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	ANCHOR BOLTS
0'-6" @ EE 65½, 2'-10" ALL OTHERS	0'-6"	2'-10"	5'-10"	2'-0"	5'-10"	6'-4"	6'-4"	6'-4" (R-62), 2'-10" (OTHERS)	6'-4" (R-62), 5'-10" (OTHERS)	G'-8" @ B-70, C-70, D-70, E-70, F-70, G-70, J-70, K-70, 5'-10" (M-61, N-61, P-61), 6'-4" (OTHERS)	4'-8" (R-42, R-43), 5'-10" (OTHERS)	5'-10"	DIM. FROM FIN. 1ST FL. TO BOTT. OF B.PL.
WIND COLUMNS: PROVIDE VERT. SLOTTED CONNECTION AT TOP — SEE TYP. DETAIL. SEPARATE PRICE HAS BEEN ACCEPTED.	WIND COLS. PROVIDE VERT. SLOTTED CONN. @ TOP — SEE TYP. DETAIL	WIND COLUMNS: PROVIDE VERT. SLOTTED CONN. AT TOP. — SEE TYP. DETAIL											REMARKS

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL. BID	J. Elmdrus	R. J. Mead
3-23-77	PRIME MECH & ELECT REF.		
3-31-77	CUPSON REF.	R. J. Mead	J. Elmdrus
4-7-77	MBT. ROOF DECK, MBT SIDING, PRE CAST PANELS REF.		
4-25-77	CONC. PLENUM BID REF.		
4-29-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTED SIND EQ	K. Olszewski	R. J. Mead
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	DRAFTING & FINISHING REF		
5-25-77	REF. FOR	BULL. #24	

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG	[illegible]	[illegible]
85	9-9-77	EK	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]
49	7-18-77	A.C.	[illegible]	[illegible]
25	6-9-77	E.K.	[illegible]	[illegible]
PC #9	4-15-77	EK	[illegible]	[illegible]

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

COLUMN SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION — P. E. & C. PROJECT NUMBER: 4500

DATE 3-8-77

DRAWN BY BROSKY, ALCINI

JOB CAPT. E. KUCZYNSKI, D. LEE

SHEET NUMBER: S-23

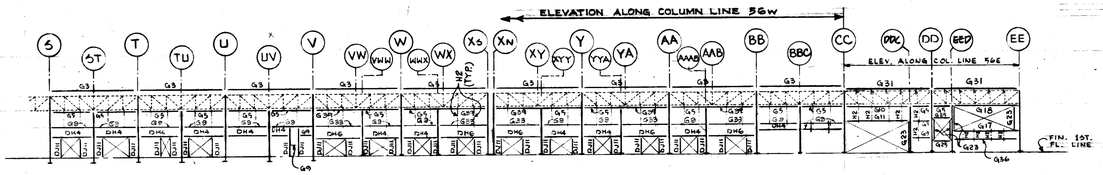
ARGO 118 REV. 12-69 K&E 17 0133 2-74 1790-

MAR 3 1978

PROJECT NO. SHEET NO.

COLUMN SCHEDULE

COLUMN NUMBER	B-36, B-37 B-38, B-40 B-43, B-46	U-47E	V-56 U-54 U-55W	V-59W	GUIDE COL'S IN BAY 56-55W & V & VU	UUV-54 3/8 UUV-55W	UV-55W	VWW-56W WWX-56W XYY-56W YYA-56W AAB-56W BBC-56W CC-56 3/8 DDC-56E EED-56E EE-56 1/2 EE-55 1/2	J-62 1/2 JK-62 K-67 1/2 FF-48 1/2 FF-49 1/2 HJ-65 1/2 AB-70 BC-70 CD-70 DE-70 EF-70 FG-70 GH-70	HJ-70 JK-70 HJ-65 JK-65 KG-61 1/2 KG-62 1/2	EE-39E	A-37, A-38, A-40, A-41, A-33, A-35, A-42, A-43, A-34, A-36	R-24, R-25, R-26, R-27, R-28, R-29, R-30, R-32 R-33 R-34 R-35 R-36 R-37 R-38	Y-51 AA-61	Y-50 AA-50	Y-49 AA-49	Y-47E AA-47E	FF-44 1/4 FF-44 3/4	MEZZANINE ELEVATOR GUIDE COL.
COLUMN TYPE	151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133
LIVE LOAD (IN KIPS)	85	90		245	240	5	35K	100K	—	—	45K	40K	80K	431K	402K	473K	154K	35K	5K
DEAD LOAD (IN KIPS)	80	50		245	270	5	65K	150K	—	—	25K	75K	45K	329K	348K	377K	196K	20K	5K
TOTAL LOAD (IN KIPS)	165	140	75	490	510	10	100K	250K	15K	15K	70K	115K	125K	760K	750K	850K	350K	55K	10K
COLUMN (HIGH ROOF / MAIN ROOF / FIN. 1ST. FL.)	W12x65 / W14x119	W14x119		W14x219	W14x257 W14x61	W10x49	W12x53	W14x78	W14x34	W14x34	W12x72	W12x65	W14x87	W14x287	W14x287	W14x314	W24x167	W12x53	W10x49
BASE PL. SIZE (TxWxL)	3/4" x 14" x 1'-2"	1" x 17" x 1'-5"	—	2 1/4" x 20" x 2'-2"	2 1/4" x 20" x 2'-3"	1" x 17" x 1'-2"	1" x 14" x 1'-2"	1 1/4" x 18" x 1'-6"	3/4" x 9" x 1'-2"	3/4" x 9" x 1'-4"	3/4" x 14" x 1'-2"	3/4" x 14" x 1'-2"	1" x 16" x 1'-4"	3" x 26" x 2'-6"	3" x 26" x 2'-6"	3 1/4" x 28" x 2'-8"	1 1/2" x 18" x 2'-2"	3/4" x 12" x 1'-11"	3/4" x 12" x 1'-0"
BASE PL. TYPE	A	A	A	Ba	Ba	D	C	C	D	A	A	A	A	Ba	Ba	Ba	Ba	B	D
ANCHOR BOLTS	2-7/8 ϕ x 2'-6" LG.	2-7/8 ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	4-1" ϕ x 3'-0" LG.	4-1" ϕ x 3'-0" LG.	SEE BASE PL. DET.	4-7/8" ϕ x 2'-6"	4-7/8" ϕ x 2'-6" LG.	SEE BASE PL. TYPE	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	2-7/8" ϕ x 2'-6" LG.	4-1 1/4" ϕ x 3'-0" LG.	4-1 1/4" ϕ x 3'-0" LG.	4-1 1/4" ϕ x 3'-0" LG.	4-7/8" ϕ x 2'-6" LG.	4-7/8" ϕ x 2'-6" LG.	SEE BR. DET'L
DIM. FROM FIN. 1ST. FL. TO BOTT. OF B. PL.	2'-0"	2'-0"	2'-10"	2'-0"	2'-0"	17'-11"	2'-0"	2'-0"	SEE DET'L	6'-4" (FF-48 1/2) 1'-8 OTHERS	2'-10"	2'-10"	5'-10"	1'-0"	1'-0"	1'-0"	2'-0"	+ 0'-6" ABOVE FIN. 1ST FL.	3'-11"
REMARKS	SEE "COLUMN 151 DETAIL" ON SHT. S-24					SEE DET'L ON SHT S-6.			WIND COL: PROVIDE VERT. SLOTTED CONN. AT TOP. SEE TYP. DETAIL	WIND COL: PROVIDE VERT. SLOTTED CONN. AT TOP. SEE TYP. DETAIL.					EXTEND COL. ABOVE ROOF TO SUPPORT GRILLAGE STEEL.	EXTEND COL. ABOVE ROOF TO SUPPORT GRILLAGE STEEL.	EXTEND COL. ABOVE ROOF TO SUPPORT COOLING TOWER.	COL. SUPPORT TROSTLE. SEE DETAIL FOR WIND FORCE ON COL. SEE BENT ON SHT B-3	SEE CUT OUT DETAILS ON SHEET S-33

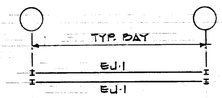


ELEVATION ALONG COLUMN LINE "56W" & 56E
(LOOKING WEST)

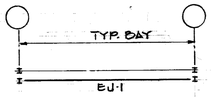
ALTERNATE Nº 3 - ACCEPTED

THE STRUCT. STEEL CONTRACTOR SHALL SUBMIT AN ALTERNATE PRICE Nº 3 FOR THE CONVEYOR ENCLOSURE HOUSING, ALL SUBSTATIONS & WELDER WATER ENCLOSURE FOR THE FOLLOWING GIRT SYSTEM ONLY.

a) DELETE GIRTS G3 AND SUBSTITUTE WITH G31 CONNECTED WITH 5/16" THICK MATERIAL TO EA. TRUSS VERTICAL OR PURLIN AT MAX. 7'-6" o/c AND ALSO TO COLUMNS AFTER ALIGNMENT.



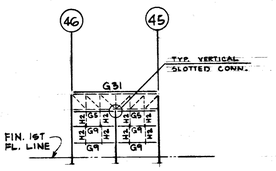
AT TYPICAL EXPAN. JT.



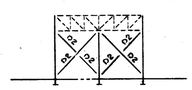
AT TYPICAL EXPAN. JT.
ADJOINING ROOF ENCLOSURE

SEPARATE PRICE Nº 7 - NOT ACCEPTED

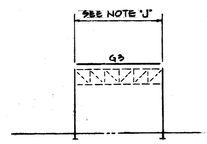
THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE A SEPARATE PRICE TO INCLUDE STRUCTURAL STEEL MEMBERS "BU1" AS SHOWN ON PLANS ABOVE AND MATERIAL SCHED. FOR THE DETAIL, LENGTH, TYPE & EXTENT OF "EJ-1 SEE ARCHITECTURAL DRAWINGS.



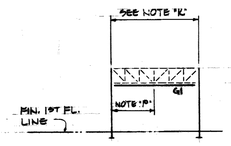
ELEVATION ALONG COL. LINE "DD"
(LOOKING SOUTH)



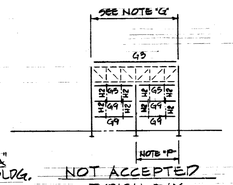
TYPICAL BRACED BAY
REPEAT IN ALL BAYS INDICATED ON PLAN BELOW.



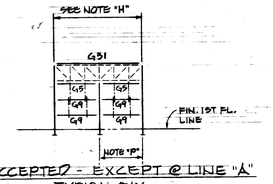
ACCEPTED ONLY ALONG LINE "EE" BETWEEN COL. LINE 52 & 53
TYPICAL DAY
SEPARATE PRICE "G"



ACCEPTED ALONG LINE "A" ONLY EXCEPT AT OFFICE BLDG.
TYPICAL DAY
SEPARATE PRICE "D" & D1



NOT ACCEPTED
TYPICAL DAY
SEPARATE PRICE "EE" & EE1



ACCEPTED - EXCEPT @ LINE "A"
TYPICAL DAY
SEPARATE PRICE "FF" & FF1

NOTE "J"
REPEAT GIRTS "G3" IN ALL BAYS INDICATED ON PLAN BELOW.

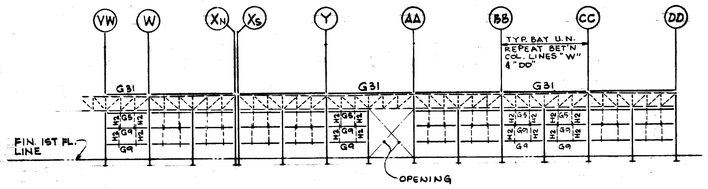
NOTE "P"
TYPICAL HALF BAY. REPEAT ALL GIRTS SHOWN FOR ONLY ONE HALF BAY WHERE HALF BAYS ARE INDICATED ON PLAN BELOW.

NOTE "K"
REPEAT GIRT G1 IN ALL BAYS INDICATED ON PLAN BELOW.

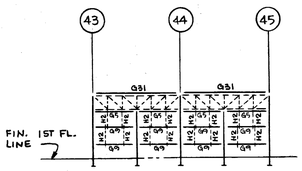
NOTE: SEE ALSO SHT. S-11.

NOTE "G"
REPEAT GIRTS G3, G5, G9, H1 & INTERMEDIATE COL. TYPE "151" (SEE COL. SCHED.), IN ALL BAYS INDICATED ON PLAN BELOW.

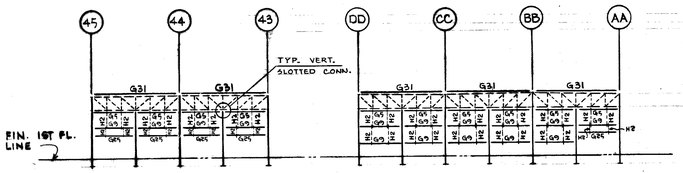
NOTE "H"
REPEAT GIRTS G31, G5, G9, H2 & INTERMEDIATE COL. TYPE "151" (SEE COL. SCHED.), IN ALL BAYS INDICATED ON PLAN BELOW.



ELEVATION ALONG COLUMN LINE "45" (LOOKING WEST)



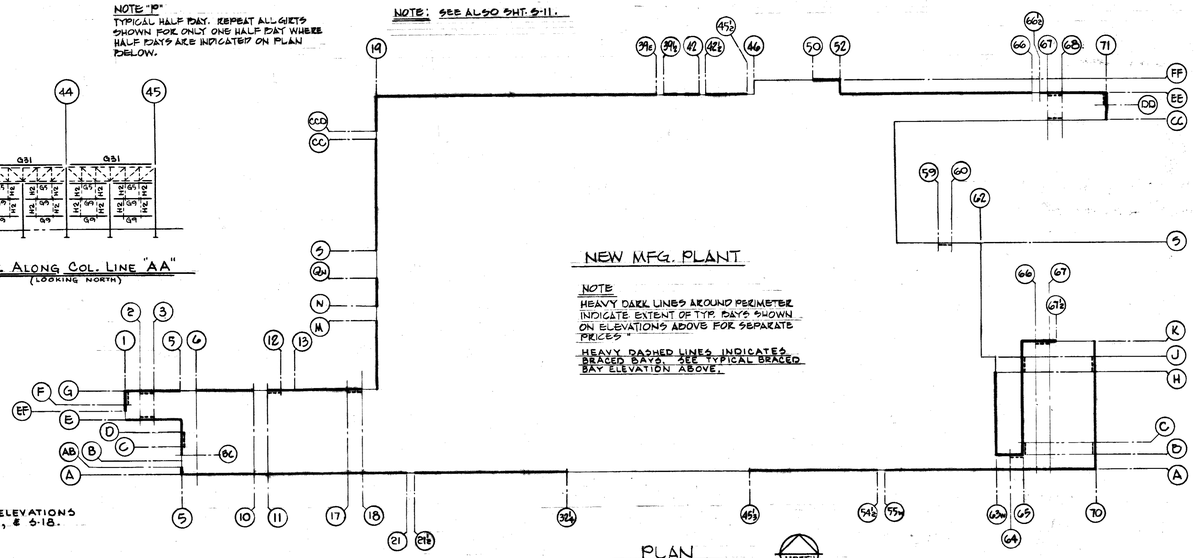
ELEV. ALONG COL. LINE "AA"
(LOOKING NORTH)



ELEV. ALONG COL. LINE "DD"
(LOOKING SOUTH)

ELEV. ALONG COL. LINE "43"
(LOOKING EAST)

NOTE:
FOR ADDITIONAL ELEVATIONS SEE SHEET S-11, S-17, & S-18.



NEW MFG. PLANT

NOTE
HEAVY DARK LINES AROUND PERIMETER INDICATE EXTENT OF TYP. BAYS SHOWN ON ELEVATIONS ABOVE FOR SEPARATE PRICES.

HEAVY DASHED LINES INDICATES BRACED BAYS. SEE TYPICAL BRACED BAY ELEVATION ABOVE.

PLAN
1" = 200'

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BID		
3-23-77	PRIMS MECH	E. ELLIOTT REF.	
3-21-77	CANOPY REF.		
4-7-77	MET. ROOF DECK MET. SIDING, PRECAST PANELS REF.		
4-23-77	CONC. PLENUM	BID REF.	
4-23-77	1ST FL. CONC.	BID REF.	
5-20-77	SEPARATED SLAB BID		
5-25-77	MISC. STL REF.		
5-26-77	MECH REF		
5-27-77	PAINTING & FINISHING REF		
5-25-77	REF. FOR	BULL. #24	

NO.	DATE	BY	APPROVAL	APPROVAL
EC 927	6-1-78	RM		
141	5-3-78	MAT		
EC 942	2-15-78	MAT		
EC 736	12-7-77	L.S		
88	9-9-77	E.K.		
85	9-9-77	E.K.		
49	7-18-77	A.C.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
REGISTERED
STATE
NUMBER
DATE

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
ARGONAUT
GENERAL MOTORS CORPORATION
DIVISION OF GENERAL MOTORS 465 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN
CONSTRUCTION & ENGINEERING

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
GM ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA
PROJECT TITLE

COLUMN SCHEDULE AND ELEVATIONS
SHEET TITLE

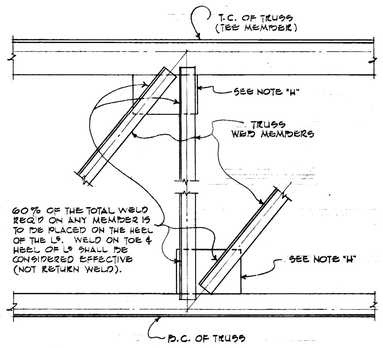
OWNER'S IDENTIFICATION
ARGONAUT PROJECT NUMBER: 4500
DATE 3-8-77
DRAWN BY BROSKY ALCINI NAGY
JOB CAPT. KUCZYNSKI
SHEET NUMBER: S 24

ARGO 118 REV. 12-69 KGE 17 0193 8-74 1799-

MAR 3 1978

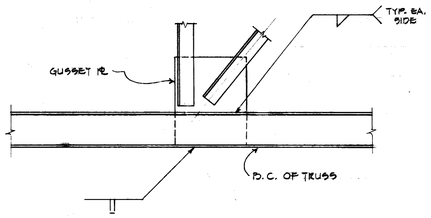
PROJECT NO. SHEET NO.

NOTE "H"
PROVIDE GUSSET PL OF SAME THICKNESS AS STEM OF TEE WHERE REQ'D FOR PROPER WELDING OR WEB SHEAR. GUSSET PL IS TO BE WELDED TO STEM OF TEE WITH FULL STRENGTH BUTT WELD AND GROUND SMOOTH UNDER WED L's - SEE GEN. NOTE # 15 (TYP) IN DETAILING TRUSSES. THE STRUCT. STEEL CONTRACTOR SHALL GIVE FULL CONSIDERATION TO LAYOUTS & SIZES OF MECHANICAL DUCTS.



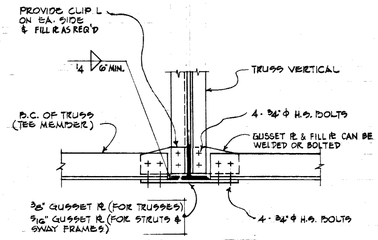
B.C. - TEE MEMBER

NOTE: SEE DETAIL ABOVE FOR TOP CHORD

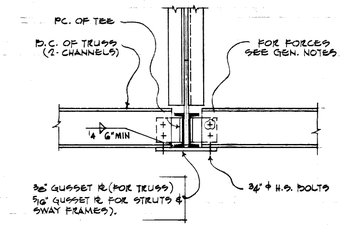


B.C. - 2 CHANNELS

TYPICAL TRUSS DETAILS



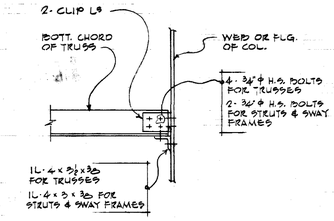
TEE MEMBER



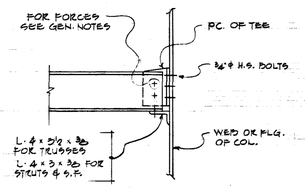
CHANNELS

TYPICAL CONNECTION OF BOTTOM CHORD OF CARRYING TRUSS, STRUT OR SWAY FRAME

(SEE GENERAL NOTES ALSO)



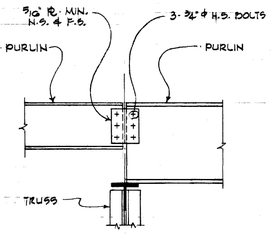
TEE MEMBER



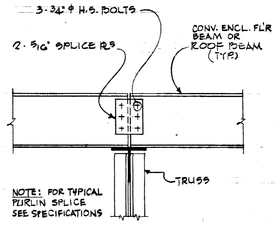
CHANNELS

TYPICAL CONNECTION OF BOTTOM CHORD OF TRUSSES, STRUTS OR SWAY FRAME TO COLUMN

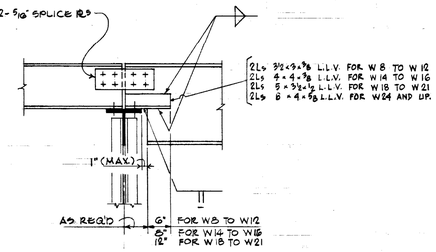
(SEE GENERAL NOTES ALSO)



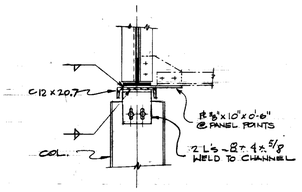
TYPICAL CONNECTION OF DIFFERENT SIZE PURLINS AT ROOF TRUSSES



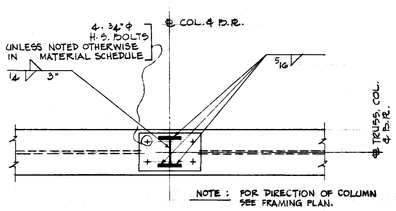
TYPICAL SPLICE BEAM BEARING ON TRUSS



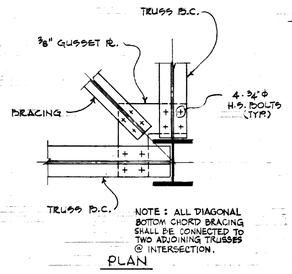
TYPICAL DETAIL OF COPING & REINFORCING OF BEAMS OR PURLINS OF VARIABLE DEPTH BEARING ON TRUSSES



SLOTTED CONNECTION @ TOP OF WIND COLUMNS FOR TRUSS T-58C & T-58D

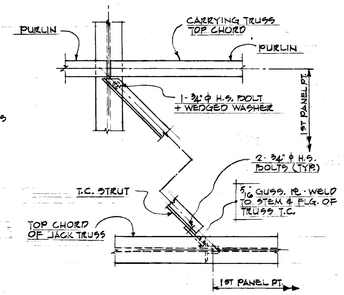


PLAN



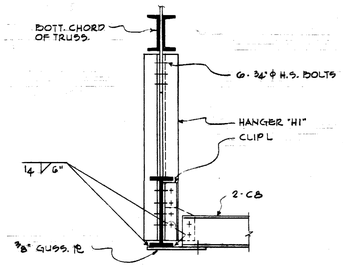
PLAN

TYPICAL CONNECTION OF BOTT. CHORD BRACING AT COL.

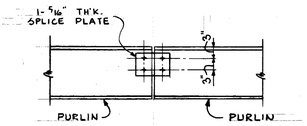


PLAN

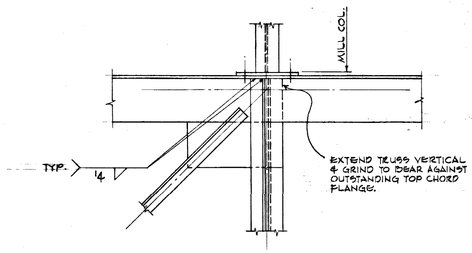
TYPICAL CONNECTION OF TOP CHORD BRACING



TYPICAL HANGER CONNECTION FOR "H1"



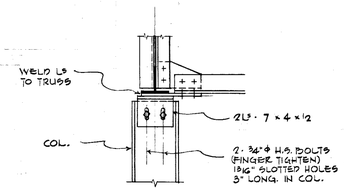
TYPICAL PURLIN SPLICE



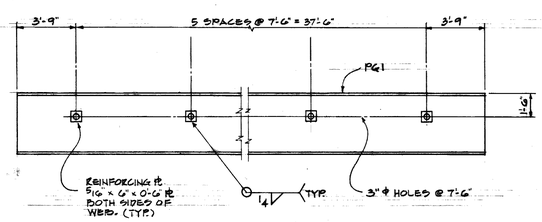
ELEVATION

TYPICAL BASE PLATE DETAILS FOR WIND COLUMNS SUPPORTED ON TRUSSES

NOTE:
WHERE WIND COLUMNS OR STUB COLUMNS ARE SHOWN ABOVE THE CARRYING TRUSSES THE COLUMNS SHALL EXTEND DOWN TO TOP CHORD OF CARRYING TRUSS. PURLINS OR BEAMS SHALL FRAME INTO THE COLUMN. WHERE THE PURLINS OR BEAMS ARE SHOWN TO EXTEND BEYOND THE COLUMN FOR STRUCTURAL PURPOSES OR WHERE THE COLUMN INTERRUPTS LENGTH OF PURLIN OR BEAM THE CONTRACTOR SHALL PROVIDE PIECE OF WF SECTION OF SAME SIZE AS PURLIN OR BEAM FRAMING INTO IT; OTHERWISE THE CONTRACTOR SHALL PROVIDE SHELF ANGLE FOR SUPPORT OF DECK OR GIRT.

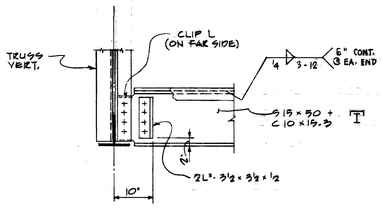


TYPICAL SLOTTED CONNECTION AT TOP OF WIND COL'S



ELEVATION

TYPICAL DETAIL OF "PG1" GIRDER



TYPICAL HOIST STOP DETAIL FOR "H51" (IN TRANSFORMER RMS)

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	SUBMIT. ON'L BIDS		
3-23-77	PRIMB MECH	& ELECT REF.	
4-7-77	VBT ROOF DECK, MISC. SIDING, PRECAST	PANELS REF.	
4-28-77	1ST FL. CONC.	& D REF.	
5-20-77	SUPPORT TO SLAB ON		
5-25-77	MISC. STL REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REQ		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78			
88	9-9-77	E.K.		
61	7-7-77	E.K.		
REV 9	4-5-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT
DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE 3-8-77

DRAWN BY W. ALGINT

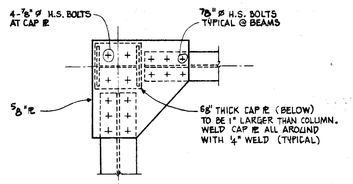
JOB CAPT. E. KUCZYNSKI

SHEET NUMBER: S-25

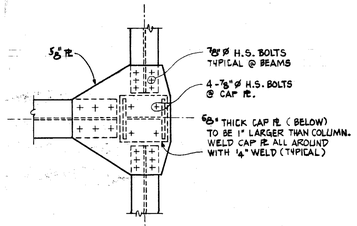
K&E 17 0158 5-73 36879+

MAR 3 1978

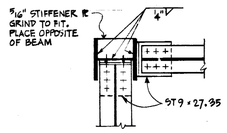
PROJECT NO. SHEET NO.



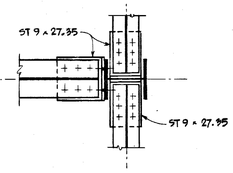
PLAN AT CORNER COLUMN



PLAN AT INTERMEDIATE COLUMN

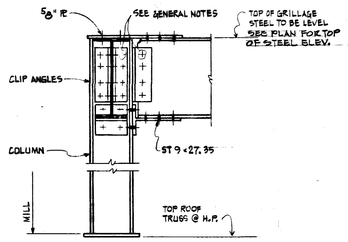


SECTIONAL PLAN AT CORNER COLUMN



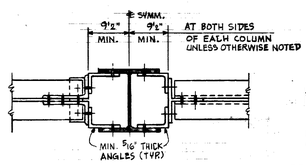
SECTIONAL PLAN AT INTERMEDIATE COLUMN

SCALE 1" = 1'-0"

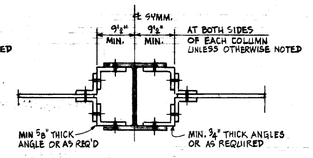


ELEVATION AT CORNER COLUMN

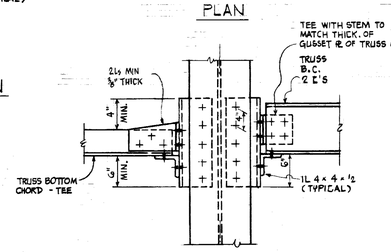
TYPICAL DETAILS OF CONNECTIONS AT COOLING TOWER GRILLAGE & SOLAR ENERGY SYSTEM GRILLAGE



PLAN



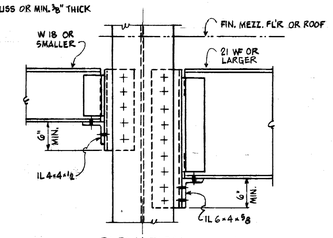
PLAN



ELEVATION

TYPICAL CONNECTION OF ROOF TRUSS BOTTOM CHORDS TO COLUMN AT RAIN CONDUCTOR - SEE NOTE "C" THIS SHEET

SCALE 1" = 1'-0"



ELEVATION

TYPICAL BEAM CONNECTION TO COLUMN AT MEZZANINE FLOOR OR ROOF PURLIN AT RAIN CONDUCTOR - SEE NOTE "C" THIS SHEET

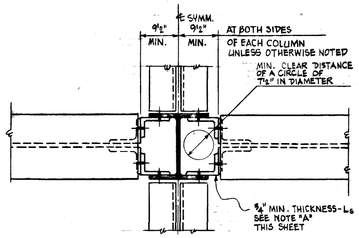
SCALE 1" = 1'-0"

NOTE : ELEVATION @ INTERMEDIATE COLUMN SIMILAR TO CORNER COLUMN CONDITION.

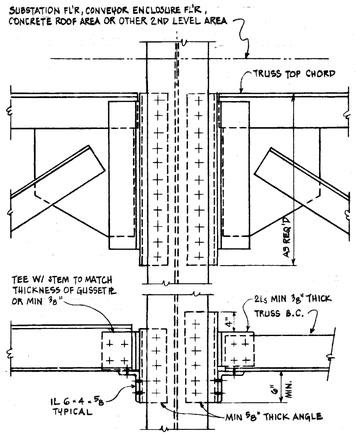
NOTE C : FOR LOCATION OF BOXED COLUMNS SEE FRAMING PLANS AND GENERAL NOTES. (THE BOXED COLUMNS ARE NOT AT EACH LOCATION OF RAIN CONDUCTORS). WHERE BOXED COLUMN ARE SHOWN AT TOP CHORD ROOF FRAMING PLAN OR OTHER HIGHEST ELEVATION ALL FRAMING BELOW SHALL HAVE BOXED COLUMNS EVEN IF NOT INDICATED ON THE DRAWINGS.

NOTE A: TWO ROWS OF BOLTS MAY BE USED IF REQUIRED TO DEVELOPE THE REQUIRED FULL STRENGTH OF TRUSS TO COLUMN CONNECTION. THE SIZE, THICKNESS AND LENGTH OF ANGLES AND THE SIZE AND NUMBER OF BOLTS SHALL BE DETERMINED BY STRUCTURAL STEEL CONTRACTOR (ALSO SEE GENERAL NOTES). STRUCTURAL STEEL CONTRACTOR SHALL SUBMIT WITH SHOP DRAWINGS, COMPLETE DESIGN OF TYPICAL CONNECTION, INCLUDING COMPUTATIONS.

IMPORTANT NOTE:
1ST FLOOR SLAB AND CYLINDRICAL FORM AT COLUMN POCKET SHALL BE INSTALLED PRIOR TO ERECTION OF STEEL. SEE ALSO ARCH. DW'GS



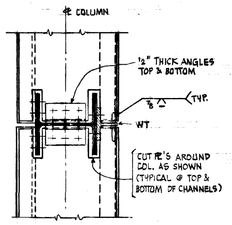
PLAN



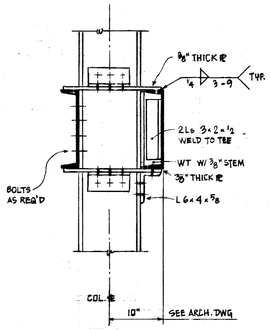
ELEVATION

TYPICAL CONNECTION OF TRUSS TO COLUMN AT RAIN CONDUCTOR - SEE NOTE "C" THIS SHEET

SCALE 1" = 1'-0"



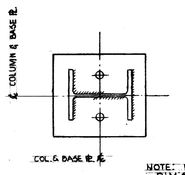
PLAN



ELEVATION

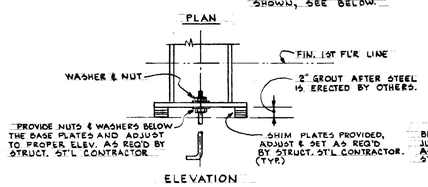
TYPICAL CONNECTION OF BEAM B46 & B52 TO COL.

SCALE 1" = 1'-0"



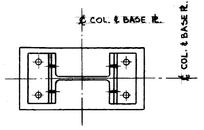
NOTE: FOR ALL WELDS, DIMS. & NOTES NOT SHOWN, SEE BELOW.

PLAN



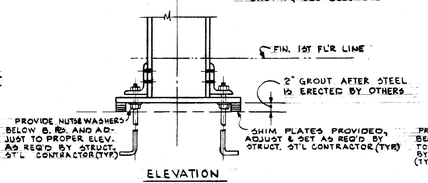
ELEVATION

COL. BASE DET. TYPE "A"
(ALTERNATE #2)



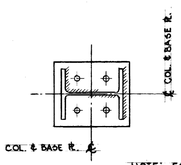
NOTE: FOR ALL WELDS, DIMS. & NOTES NOT SHOWN, SEE BELOW.

PLAN



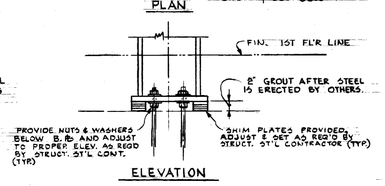
ELEVATION

COL. BASE DET. TYPE "B" & "Ba"
(ALTERNATE #2)



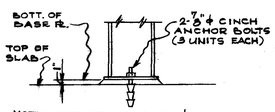
NOTE: FOR ALL WELDS, DIMS. & NOTES NOT SHOWN, SEE BELOW.

PLAN



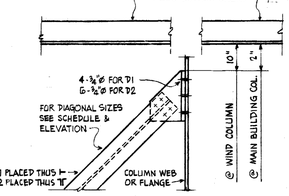
ELEVATION

COL. BASE DET. TYPE "C"
(ALTERNATE #2)

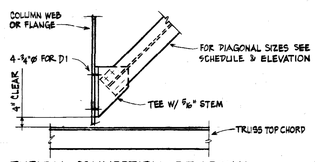


NOTE: FOR COL. TO BASE PL WELDING SEE DETAIL TYPE "A" THIS SH'T

COL. BASE DET. TYPE "D"

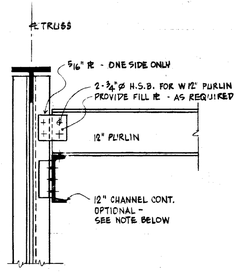


TYPICAL CONNECTION OF DIAGONAL WALL BRACING AT BOTTOM OF TRUSS



TYPICAL CONNECTION OF DIAGONAL WALL BRACING "D1" TO COLUMN AT FLOOR

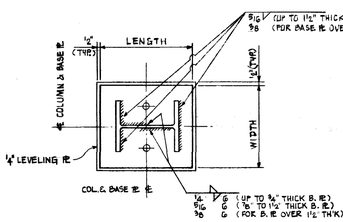
SCALE 1/2" = 1'-0"



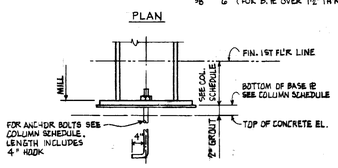
NOTE :
THE STRUCTURAL STEEL CONTRACTOR MAY ELIMINATE CHANNEL FROM THE TRUSSES CALLED FOR ON THE TRUSS DIAGRAM FOR THE SUPPORT OF W12 PURLINS IN LINE WITH TRUSS VERTICAL, AND SHALL SUBSTITUTE WITH STANDARD FRAMED-IN TWO SIDED WEB CONNECTION. PROVIDE 5/16" THICK CLIP ANGLE AND FILL AS REQUIRED AND MIN. 3 - 3/4" ø H.S. BOLTS.

ELEVATION

TYPICAL CONNECTION OF W12 PURLIN TO TRUSS AND CHANNEL



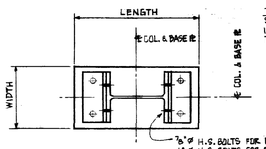
PLAN



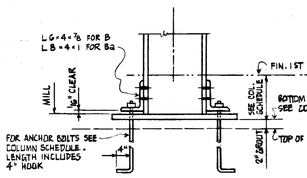
ELEVATION

COLUMN BASE DETAIL TYPE "A"

TYPICAL NOTE : SIZE OF BASE PL GIVEN THUS IN COLUMN SCHEDULE : THICKNESS × WIDTH × LENGTH

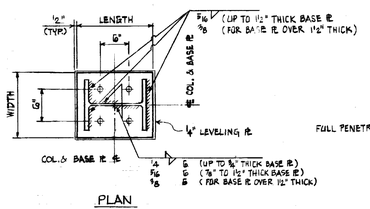


PLAN

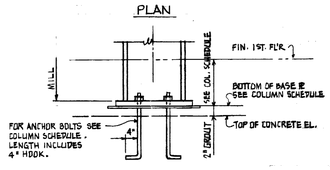


ELEVATION

COLUMN BASE DETAIL TYPE "B" & "Ba"

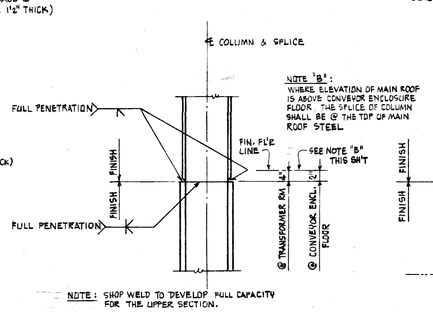


PLAN



ELEVATION

COLUMN BASE DETAIL TYPE "C"

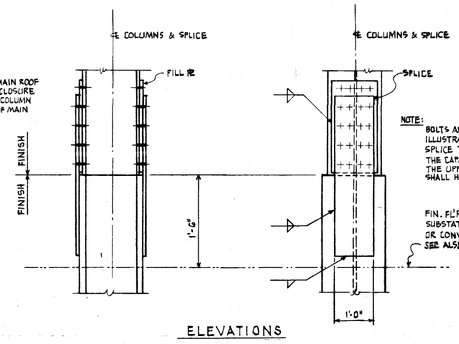


NOTE 'B': WHERE ELEVATION OF MAIN ROOF IS ABOVE CONVEYOR ENCLOSURE FLOOR THE SPLICE OF COLUMN SHALL BE @ THE TOP OF MAIN ROOF STEEL

NOTE : SHOP WELD TO DEVELOP FULL CAPACITY FOR THE UPPER SECTION.

ELEVATION

OPTIONAL TYPICAL COLUMN SPLICE DETAIL



NOTE: BOLTS ARE SHOWN FOR ILLUSTRATION PURPOSE ONLY. SPLICE TO DEVELOP 75% OF THE CAPACITY IN BENDING OF THE UPPER SECTION AND SHALL HAVE FULL BEARING.

ELEVATIONS

TYPICAL COLUMN SPLICE DETAIL

SCALE THIS SHEET 3/4" = 1'-0" UNLESS OTHERWISE NOTED

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. ST'L BIDS		
3-23-77	PRIME MECH & ELECT REF.		
3-21-77	CAISSON REF.		
4-7-77	MST. ROOF DECK, MST. SIDING, PRECAST PANELS REF.		
4-28-77	CONC. PLENUM	B.O. REF.	
4-28-77	1ST FL. CONC.	B.O. REF.	
5-20-77	SUMMARIZED GEAS BID		
5-25-77	MISC. STL. REF.		
6-26-77	ARCH REF.		
5-27-77	PAINTING & FINISHING REF.		
5-25-77	REF. FOR BULL. #24		
3-1-78	REF. SOLAR REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
EFO#165	11-1-77	EK		
61	7-7-77	E.K.		
26	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES | DRAWING CERTIFIED BY

FOR THE OWNER | REGISTERED | STATE | NUMBER | DATE

FOR THE CONTRACTOR

ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION MANUFACTURING STAFF

GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION | 4500 P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY W. ALCINI

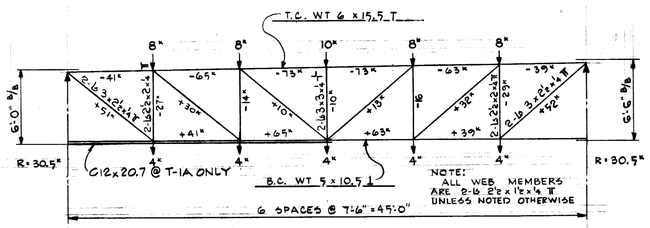
JOB CAPT. E. KUCZYNSKI

S-26

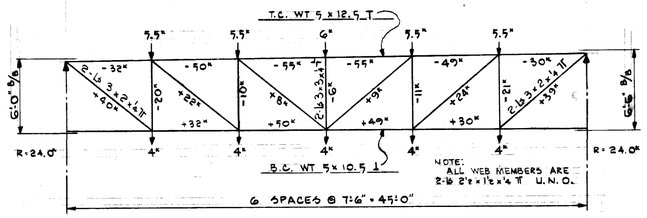
SHEET NUMBER

MAR 9 1978

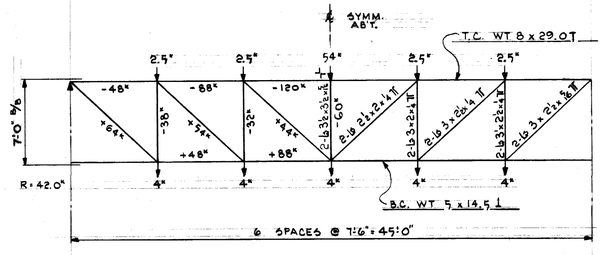
ECT NO. SHEET NO.



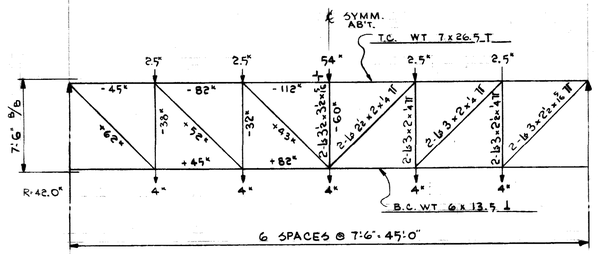
T-1 & T-1A



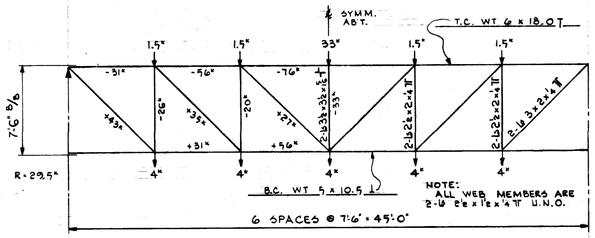
T-2



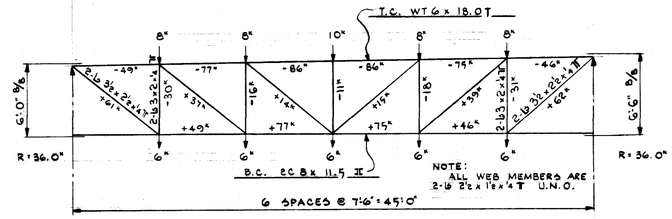
T-3



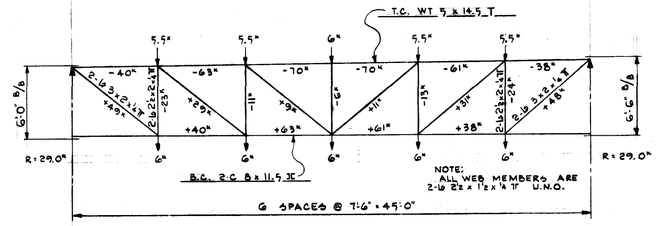
T-4



T-5



T-6



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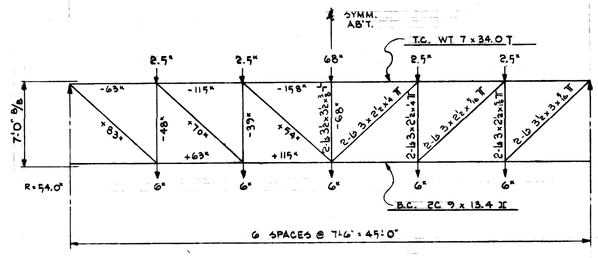
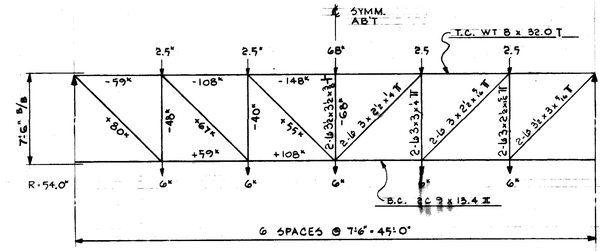


T-8



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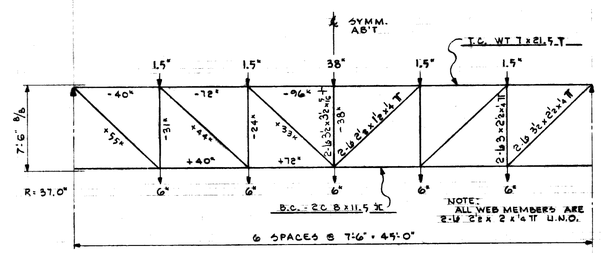

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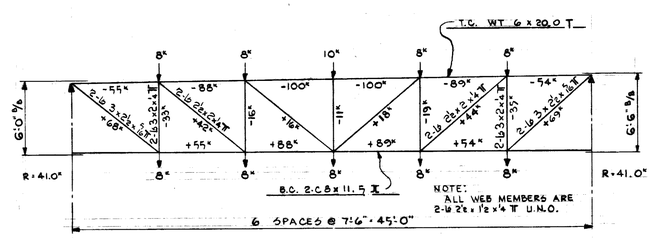
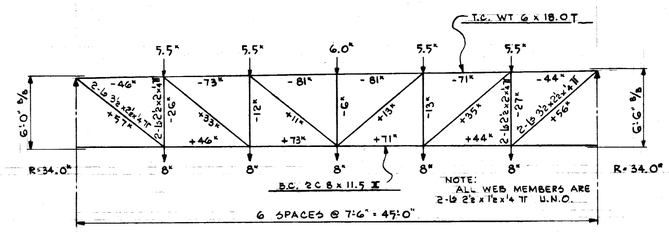


T-11



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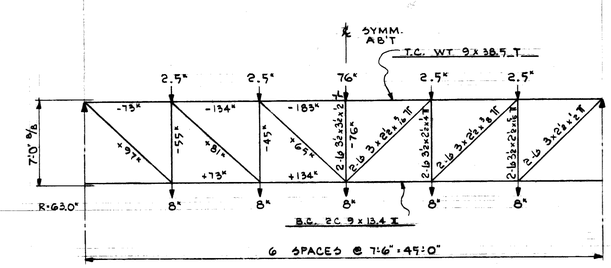
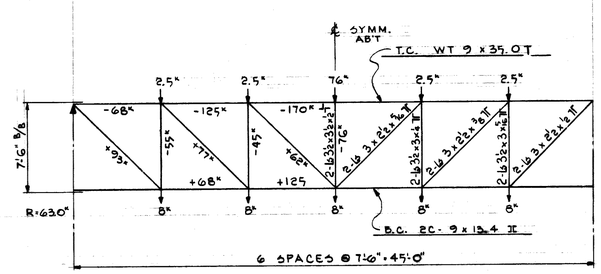
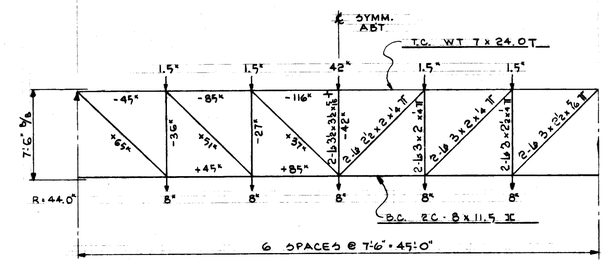


T-13



T-14



T-15

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIMB MECH & ELECT REF.		
4-7-77	MST. ROOF DECK, ME SIDING, PRECAST PANELS REF.		
4-23-77	1ST FL. CONC. BID REF.		
5-20-77	SUMMARY SLAB BID		
5-25-77	MISC. STL REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FIRE SPRINK REF		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
61	7-7-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT

DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

625 WEST MILWAUKEE AVENUE, DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY F. BROSKY

JOB CAPT. E. KUCZYNSKI

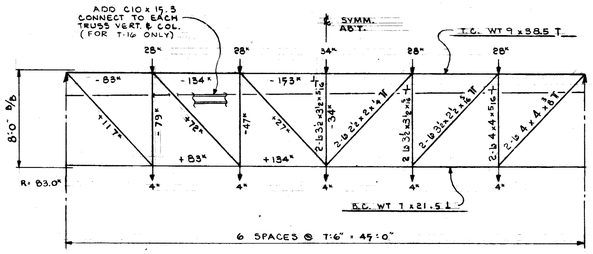
S-27

SHEET NUMBER

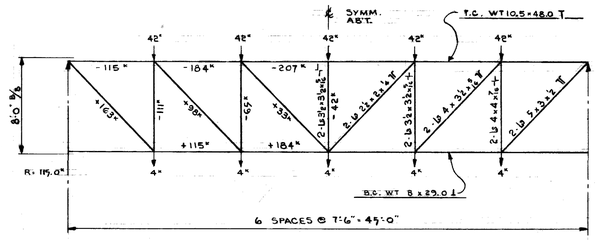
K&E 17 0133 5-73 50370+

MAR - 3 1978

PROJECT NO. SHEET NO.



T-16 & T-16A



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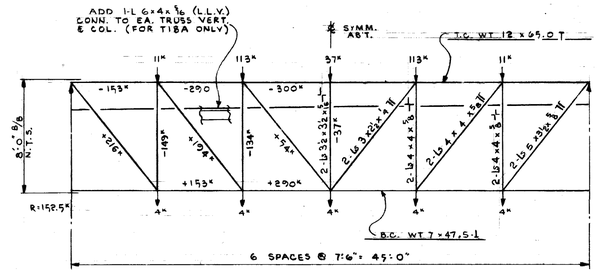
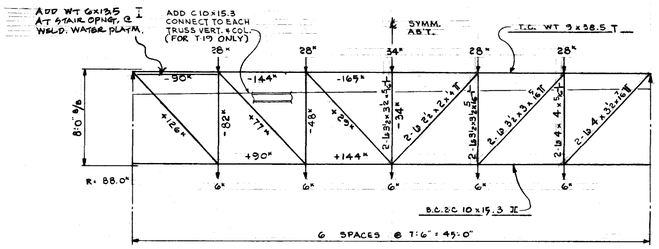
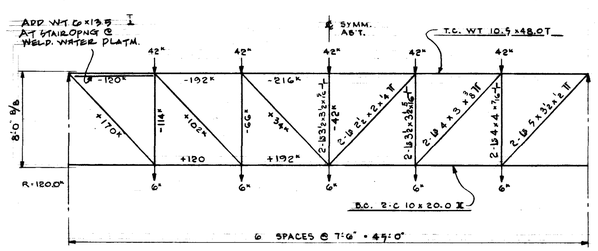


T-18 & T-18A



T-19 & T-19A



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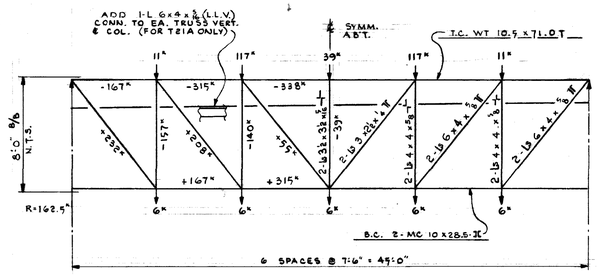
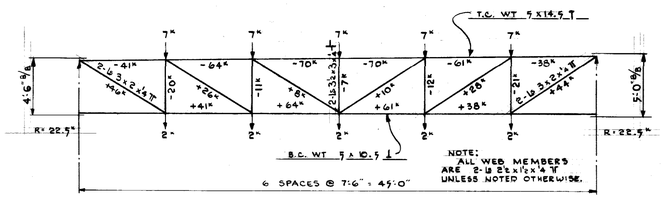


T-21 & T-21A



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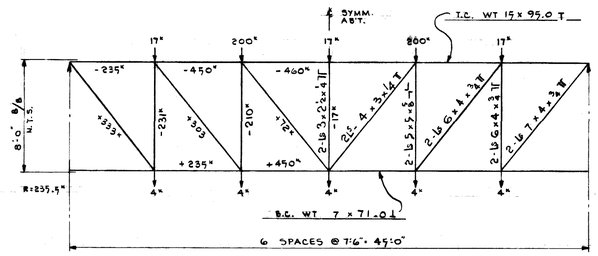

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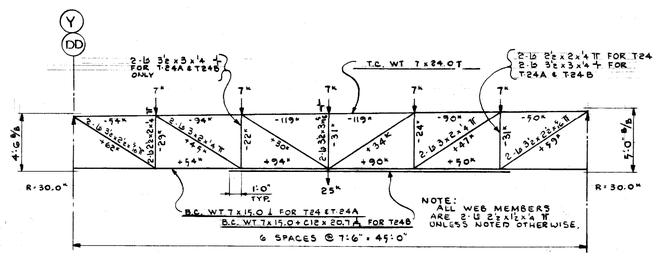
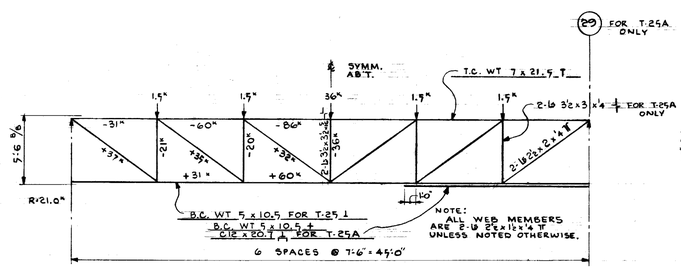
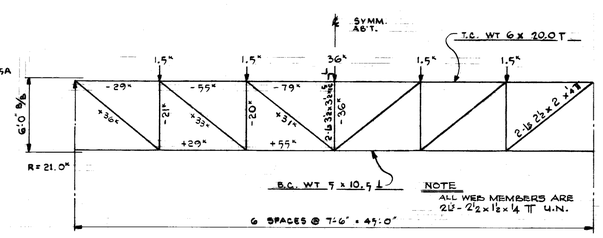


T-24, T-24A, & T-24B



T-25 & T-25A



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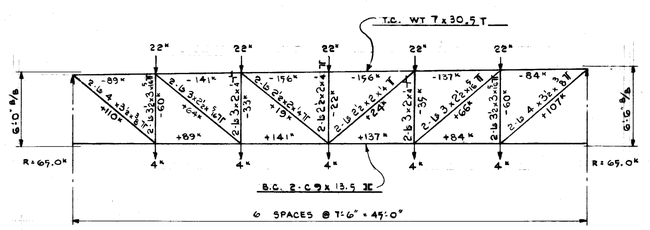

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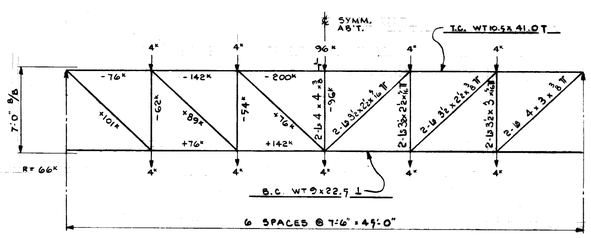
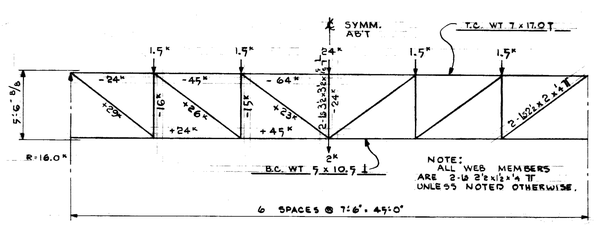
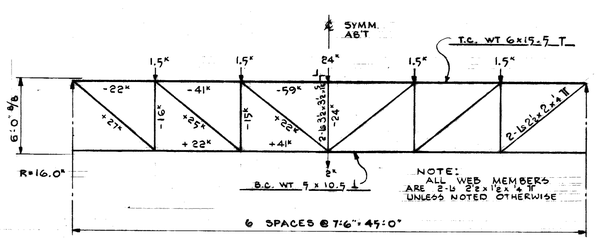


T-28



T-29



T-30

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIMB MTCH	& BLECT REF.	
4-7-77	MBT. ROOF DECK, MBT SIDING, PRECAST PANELS REF.		
4-28-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTS FOR SIDING		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PRELIMINARY & PRELIMINARY		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
61	7-7-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

3044 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER 4500

DATE 3-8-77

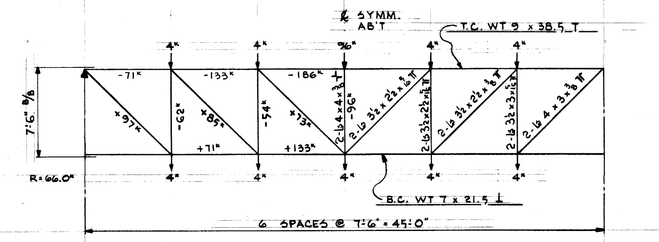
DRAWN BY F. BROSKY

JOB CAPT. E. KUCZYNSKI

S-28

SHEET NUMBER

PROJECT NO. SHEET NO.



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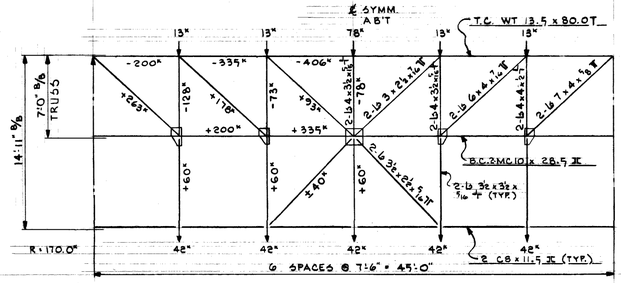

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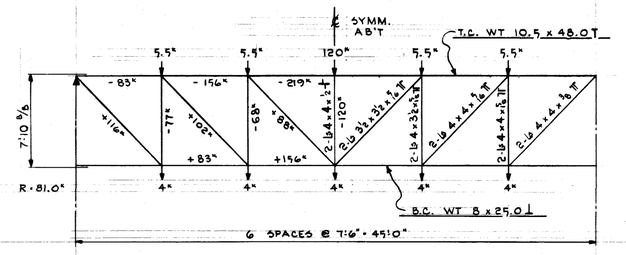

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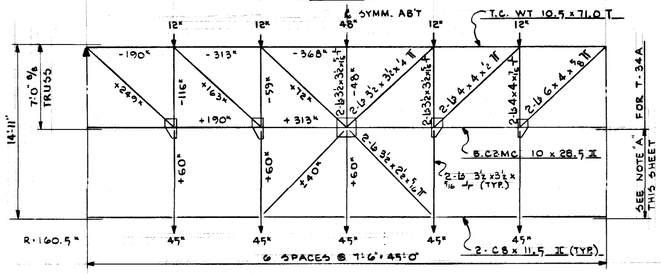
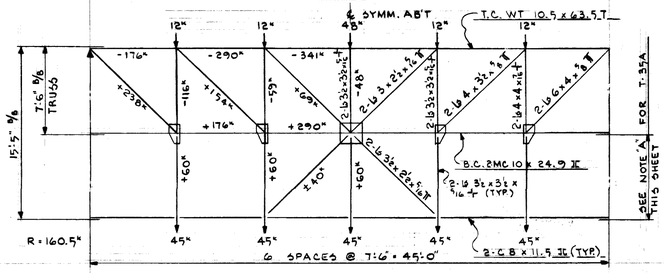
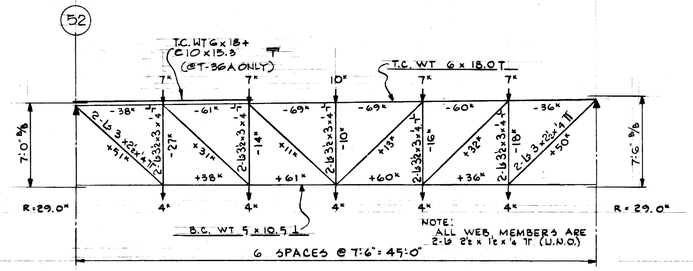


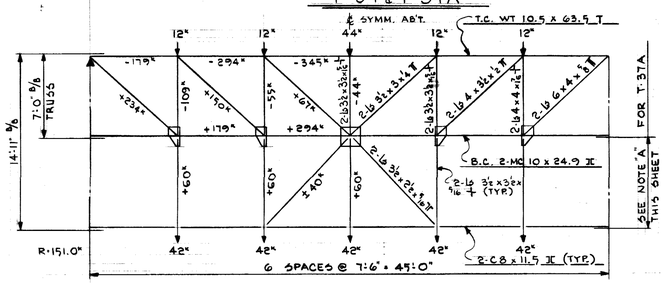
T-34 & T-34A



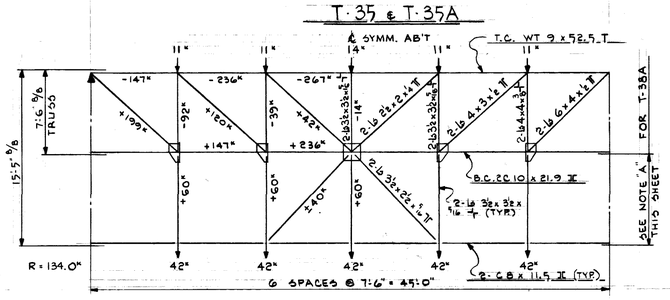
T-35 & T-35A



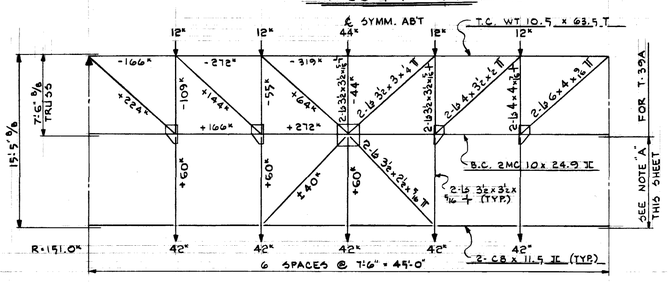
T-36 & T-36A



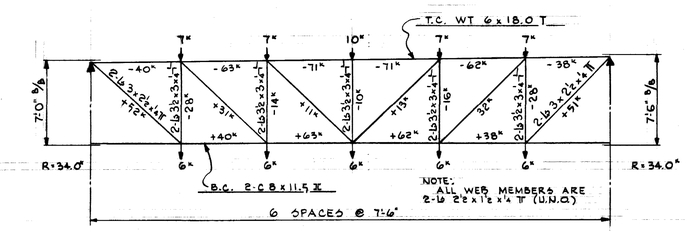
T-37 & T-37A



T-38 & T-38A



T-39 & T-39A



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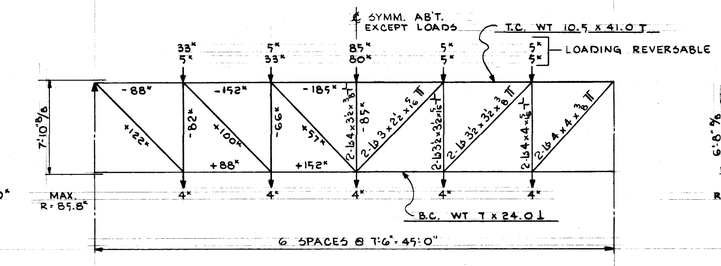
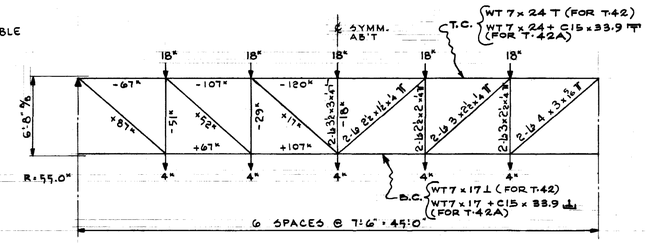
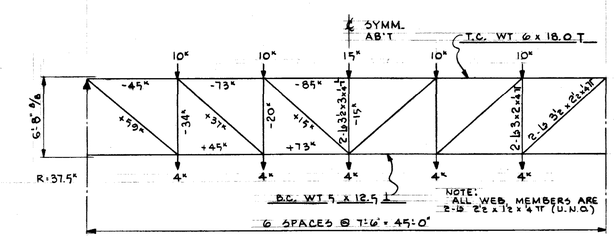


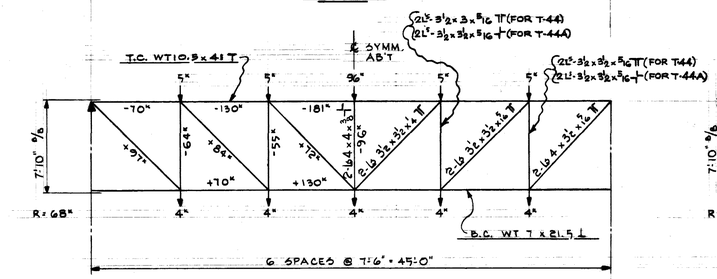
T-41



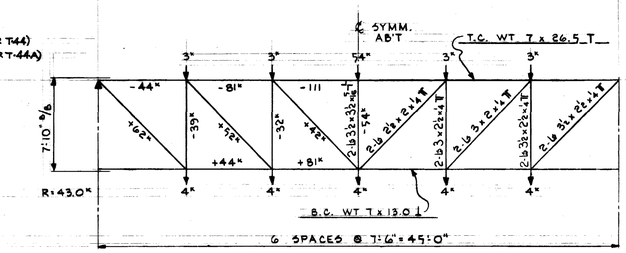
T-42 & T-42A



T-43



T-44 & T-44A



T-45

NOTE "A"
TRUSS DESIGNED FOR FUTURE MEZZANINE. WHERE FRAMING FOR PRESENT MEZZANINE IS NOT SHOWN OMIT HANGERS, 2-L 3/8 x 3/8 x 5/16, CROSS BRACING 2-L 3/8 x 2½ x 5/16 AND 2-C8 x 11.5 BELOW THE TRUSS BUT EXTEND ALL GUSSET PL. AND PUNCH HOLES TO RECEIVE FUTURE FRAMING. FOR LOCATION AND EXTENT OF PRESENT PARTIAL MEZZANINE SEE STRUCTURAL STEEL FRAMING PLANS & ARCHITECTURAL DRAWINGS.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL. BIDS	J. E. Andrews	R. J. Heard
3-23-77	PRIME MECH. & ELECT. REP.		
4-7-77	MISC. ROOF DECK, MISC. SIDING, PRECAST PANELS REF.		
4-28-77	1ST FL. CONC. BID REF.		
5-20-77	SUPPORTING STEEL BID	[illegible]	R. J. Heard
5-25-77	MISC. STL. REF.		
5-26-77	ARCH. REF.		
5-27-77	PAINTING & FIREPROOFING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG	[illegible]	[illegible]
62	7-27-77	A.C.	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE • DETROIT, MICHIGAN

ARCHITECTURE • ENGINEERING • PLANT SERVICE • CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY BROSKY

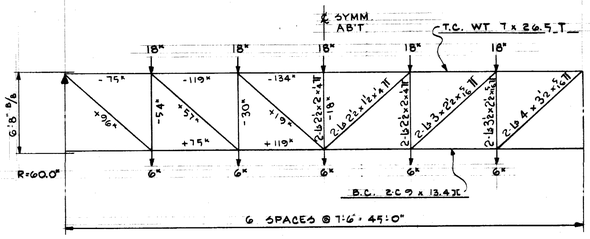
JOB CAPT. E. KUCZYNSKI

S-29
SHEET NUMBER

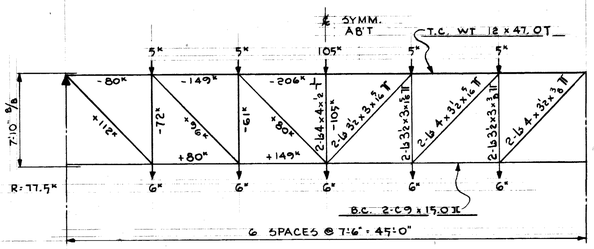
ARGO 116 REV. 12-69 KSE 17 0132 2-74 1750M

MAR 3 6/8

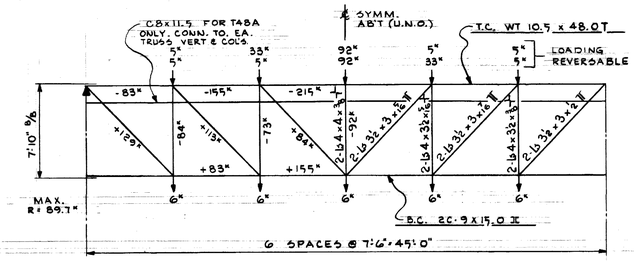
PROJECT NO. SHEET NO.



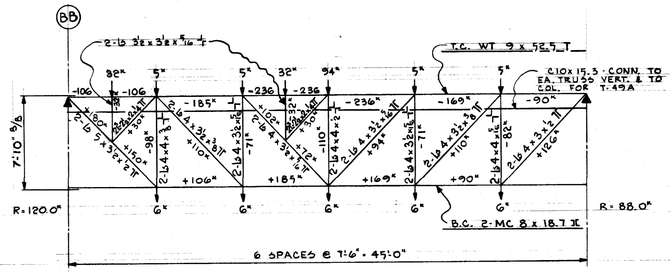
T-46



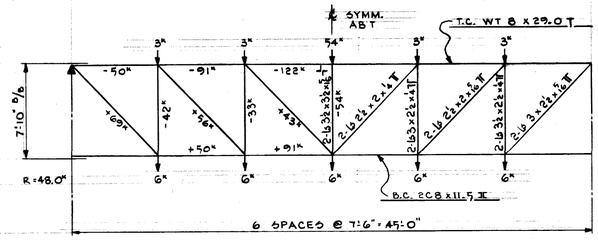
T-47



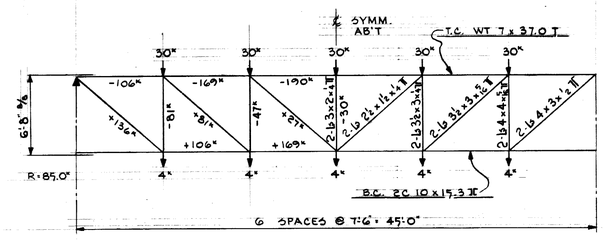
T48 & T48A



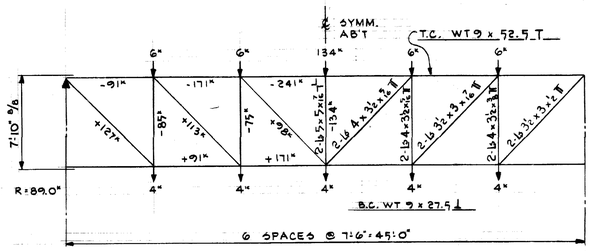
T-49 & T-49A



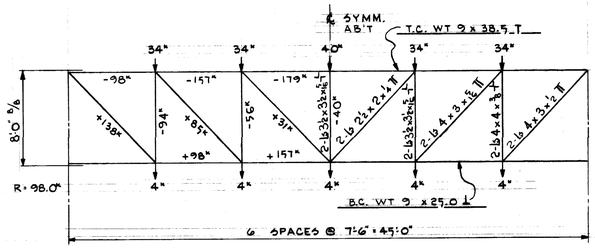
T-50



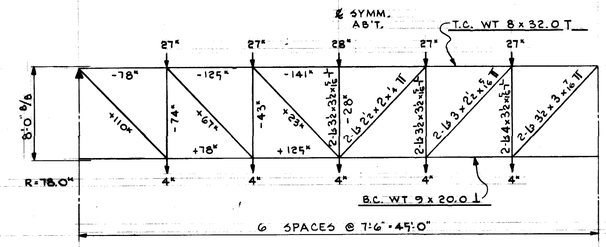
T-51



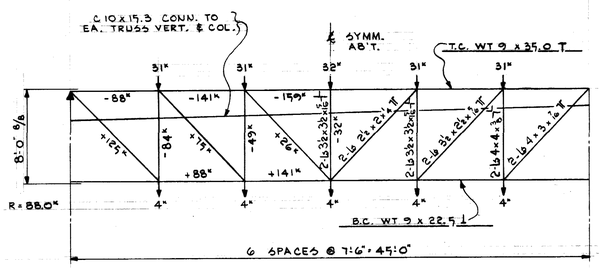
T-52



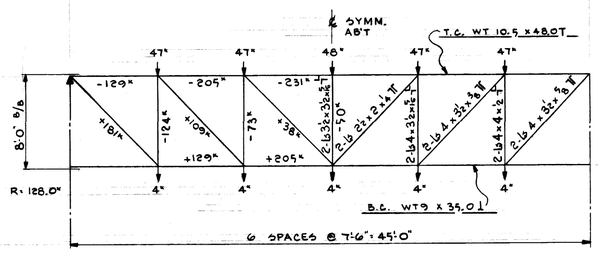
T-53



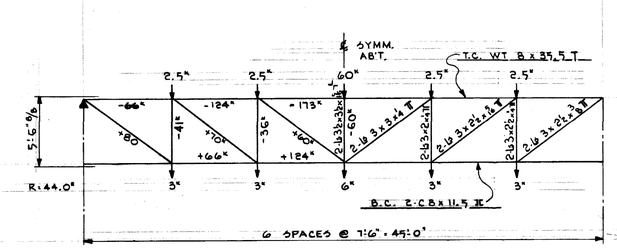
T-54



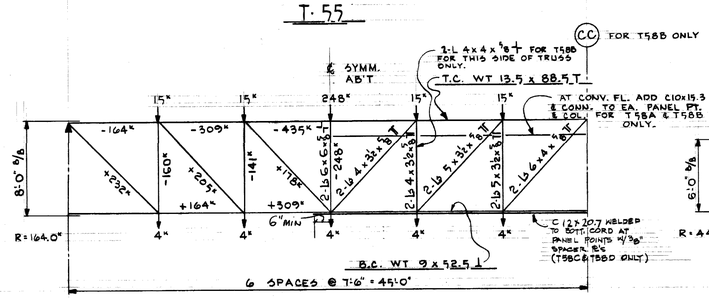
T-55



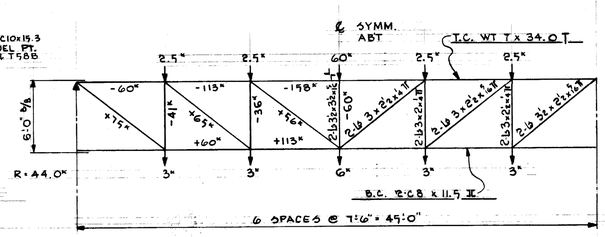
T-56



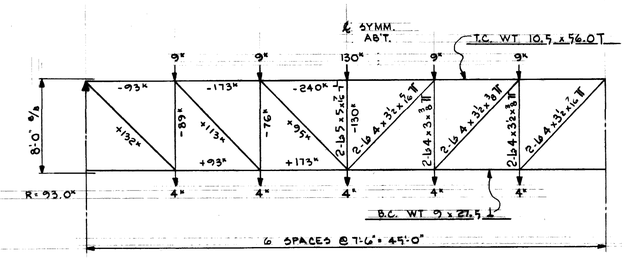
T-57



T-58, T-58A, T-58B & T-58C
(T-58D OPP. HAND)



T-59



T-60

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIME MECH	& ELECT REF	
4-7-77	MET. ROOF DECK, MET SIDING, PRECAST PANELS REF.		
4-21-77	1st FL. CONC	BID REF.	
5-20-77	SUGGESTED SCHEME A&B		
5-25-77	MISC. STL. REF		
5-26-77	ARCH REF		
5-27-77	PLUMBING & ELECTRICAL REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
88	9-9-77	E.K.		
61	7-7-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT
DIVISION OF GENERAL MOTORS 455 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY BROSKY

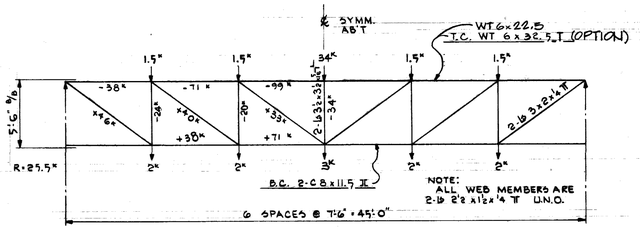
JOB CAPT. E. KUCZYNSKI

S-30
SHEET NUMBER

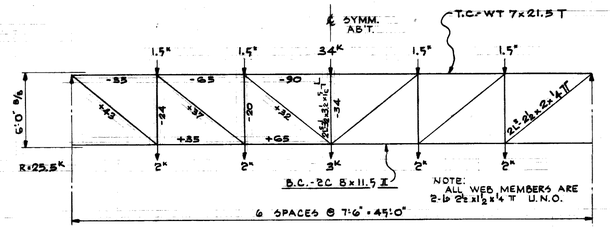
ARGO 118 REV. 12-69 KOKE 17 0133 3-74 1790+

MAR 3 1978

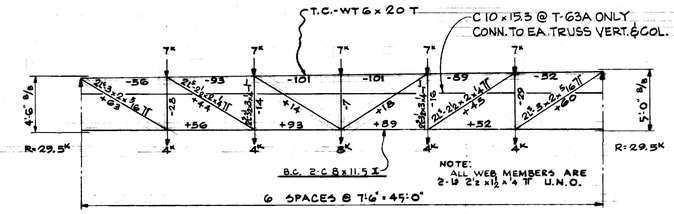
PROJECT NO. SHEET NO.



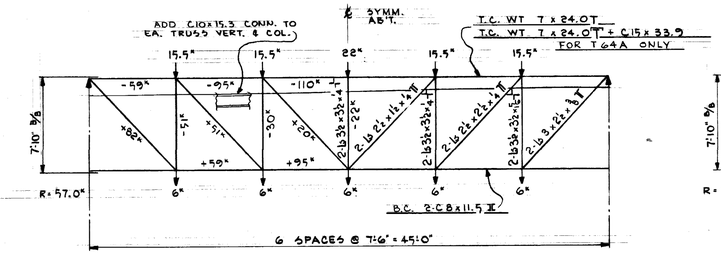
T-61



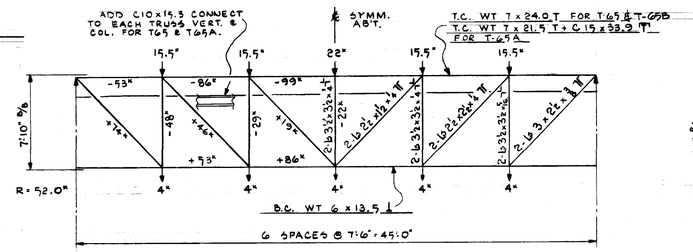
T-62



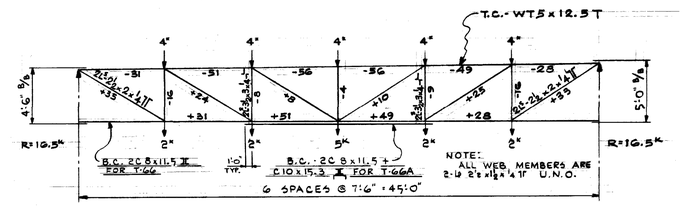
T-63 & T-63A



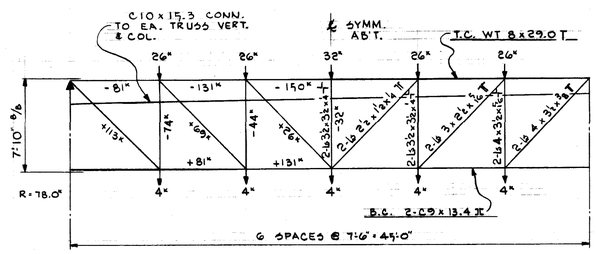
T-64 & T64A



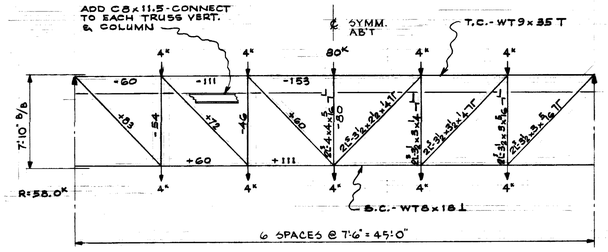
T-65, T-65A & T-65B



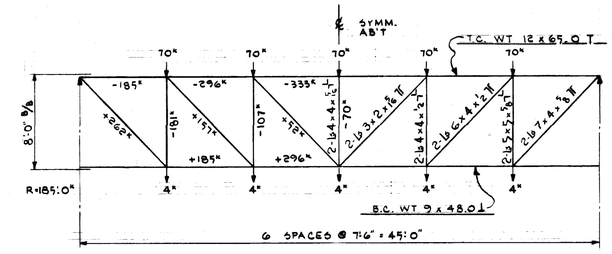
T-66 & T-66A



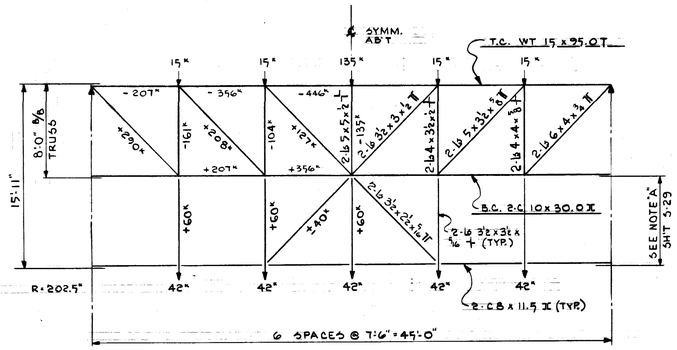
T-67



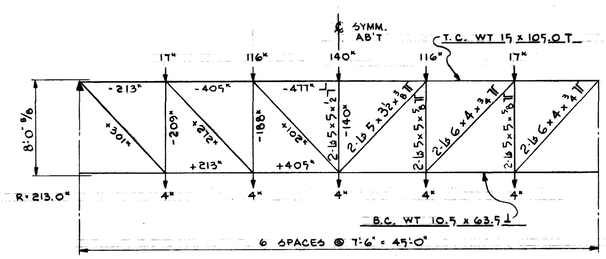
T-68



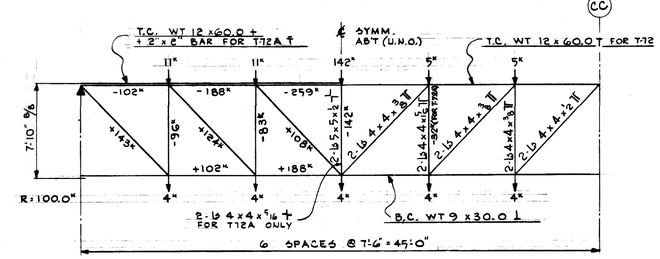
T-69



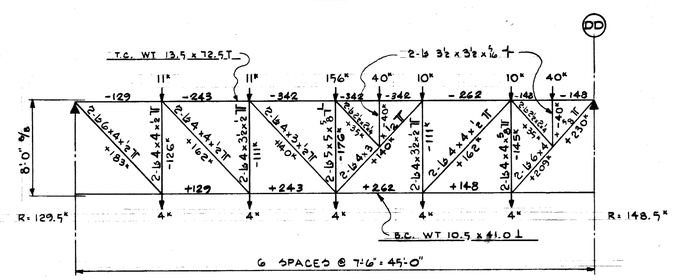
T-70



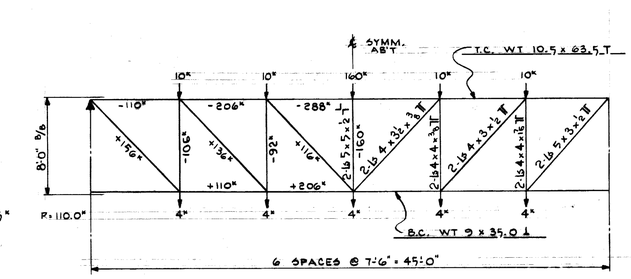
T-71



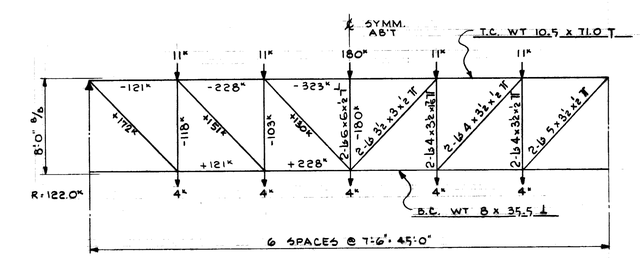
T-72 & T72A



T-74



T-75



T-73

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-3-77	STRUCT. STL. & DK		
3-23-77	PRIMS MBCI	& ELECT REF.	
4-7-77	MST ROOF DECK, MBF SIDING, PRECAST PANEL REF.		
4-21-77	1ST FL. CONC.	& DO REF.	
5-20-77	SUNDRY STRC. & ELEC.		
5-25-77	MISC. STL. REF.		
5-26-77	A.R.C.H. REF		
5-27-77	PAINTING & FINISHING REF		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
49	7-18-77	A.C.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

ARGONAUT — PLANT ENGINEERING AND CONSTRUCTION — MANUFACTURING STAFF — GENERAL MOTORS CORPORATION — 465 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE 3-8-77

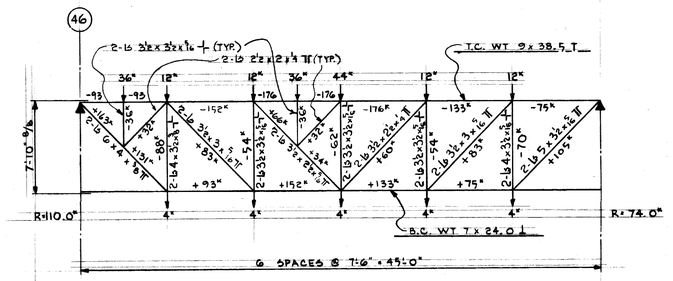
DRAWN BY BROSKY

JOB CAPT. E. KUCZYNSKI

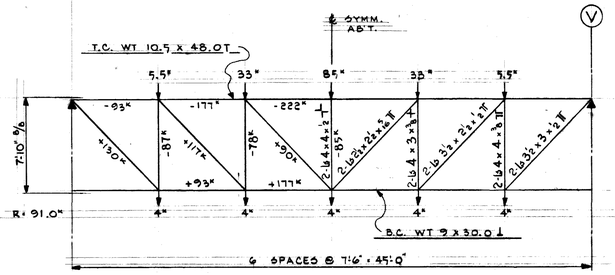
SHEET NUMBER: S-31

MAR 3 1978

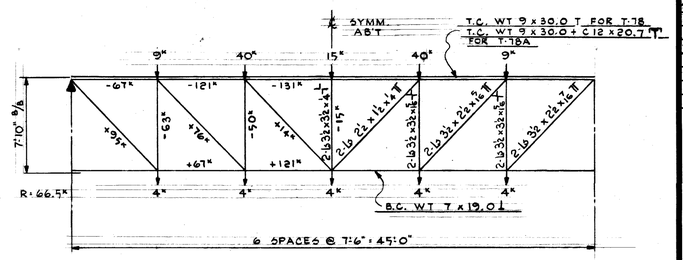
PROJECT NO. SHEET NO.



T-76

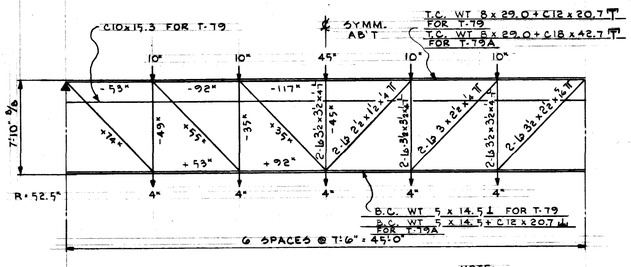


T-77



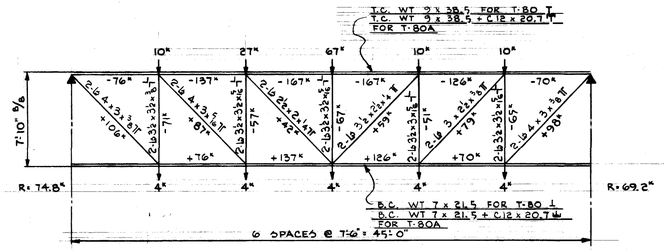
T-78 & T78A

NOTE:
EXTEND VERT. WEB L & BEAR AGAINST OUTSTANDING LEGS OF TOP CHORD.



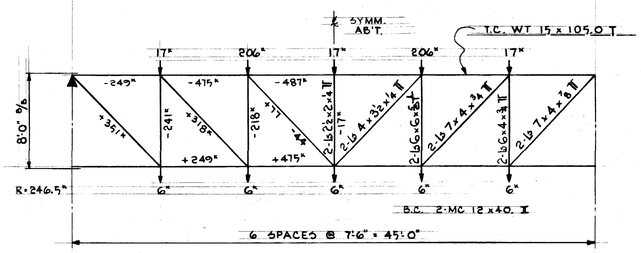
T-79 & T-79A

NOTE:
EXTEND VERT. WEB L & BEAR AGAINST OUTSTANDING LEGS OF TOP CHORD.

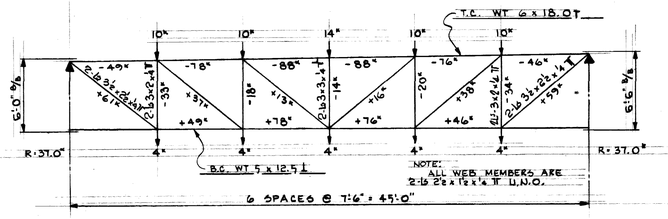


T-80 & T-80A

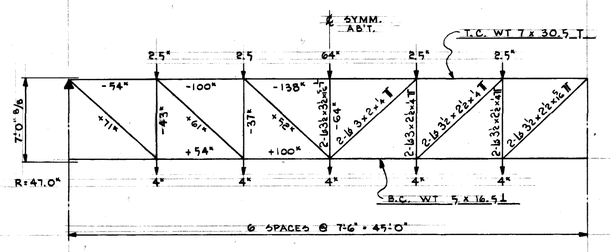
NOTE:
EXTEND VERT. WEB L & BEAR AGAINST OUTSTANDING LEGS OF TOP CHORD.



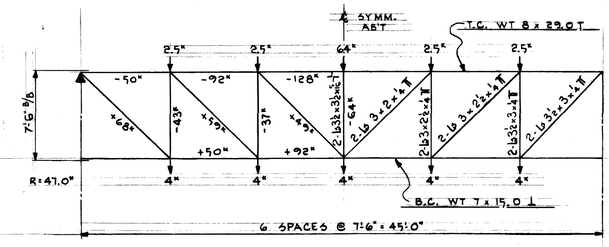
T-81



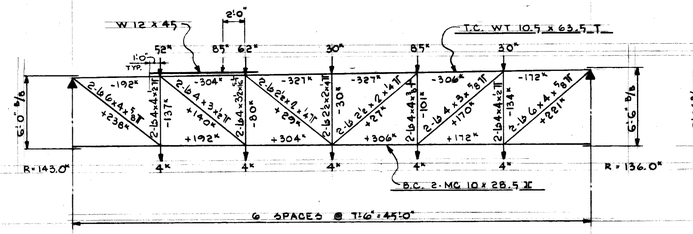
T-82



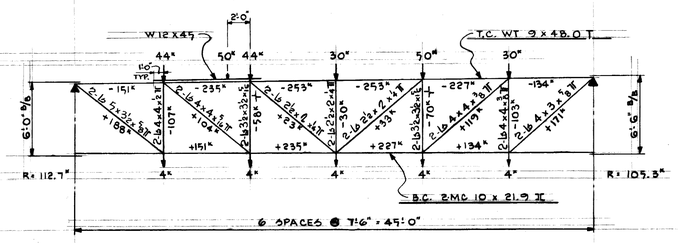
T-83



T-84

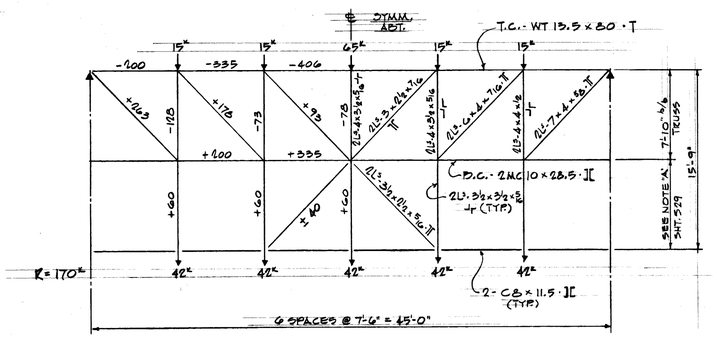


T-85

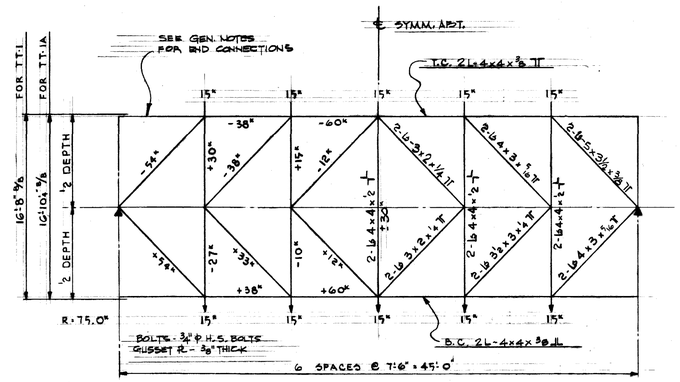


T-86

NOTE
SCALE FOR ALL TRUSSES: 3/16" = 1'-0" (U.N.)



T-87



NOTE - THE CONTRACTOR MAY ASSEMBLE TRUSSES TT-1 & TT-1A IN FIELD IF REQUIRED

TRESTLE TRUSS TT-1 & TT-1A (BOLTED)

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. STL BIDS		
3-23-77	PRIME MECH & ELEC REF.		
4-7-77	MET. ROOF DECK, MET SIDING, PRECAST PANELS REF.		
4-25-77	1ST FL. CONC. BID. REF.		
5-20-77	SUPPORTED BLDG BID		
5-25-77	MISC. STL. REF.		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		
70	8-2-77	E.K.		
61	7-7-77	E.K.		
25	6-9-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONAUT DIVISION OF GENERAL MOTORS

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
465 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 3-8-77

DRAWN BY BROSKY

JOB CAPT. E. KUCSYNOKI

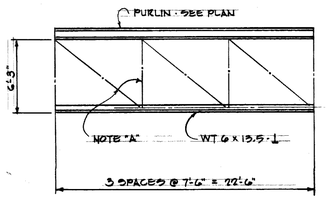
S-32
SHEET NUMBER

ARGO 118 REV. 12-69 KGE 17 8133 8-74 1750

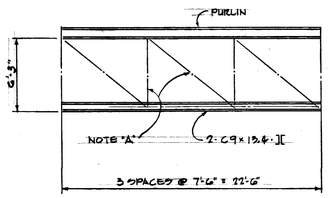
MAR 3 1978

PROJECT NO. SHEET NO.

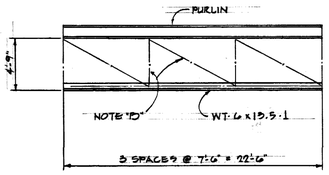
NOTE "A" ALL WEB MEMBERS ARE 2L-2½x2x¼-T.
NOTE "B" ALL WEB MEMBERS ARE 2L-3x2x¼-T.



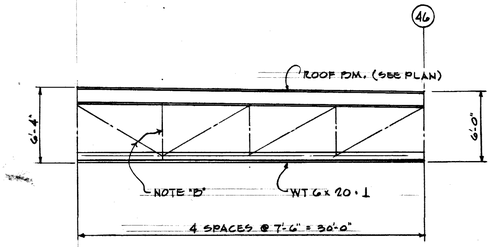
SF-1



SF-2

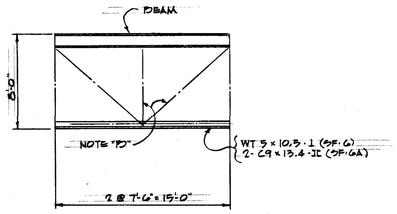


SF-14

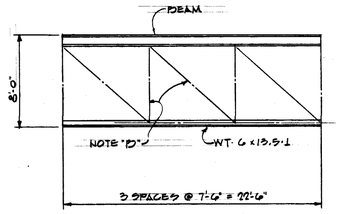


SF-4

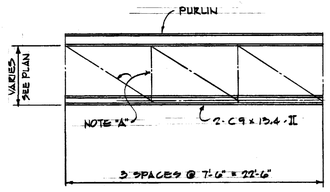
NOTE
SLOPE DIAGONAL WEB MEMBERS SAME AS TRUSS BEYOND. TYP. ALL SWAY FRAMES



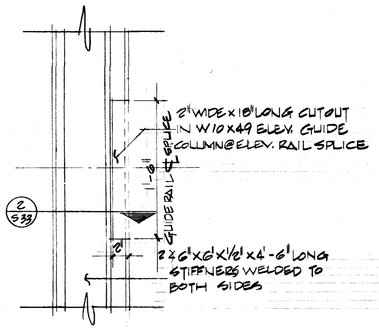
SF-6 & SF-6A

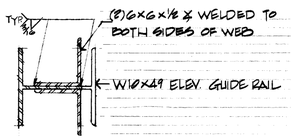


SF-7



SF-8





SECTION 2/S33

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-8-77	STRUCT. ST'L BLDG		
3-25-77	PEMB MBR & ELECT REF		
4-7-77	MFT ROOF DECK, MFT SIDING, PRECAST PANEL REF		
4-28-77	1st FL. CONC. BLD. REF.		
5-10-77	SUPPORTED PIPE & [illegible]		
5-25-77	MISC. STL REF		
5-26-77	ARCH REF		
5-27-77	PAINTING & FINISHING REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
EO 327	6-1-78	RM		
141	5-3-78	DG		
61	7-7-77	E.K.		
25	6-9-77	E.K.		
P.C. #8	4-15-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
REGISTERED
STATE
NUMBER
DATE

ARGONAUT
DIVISION OF GENERAL MOTORS
GENERAL MOTORS CORPORATION
485 WEST MILWAUKEE AVENUE, DETROIT, MICHIGAN
DESIGNING & ENGINEERING

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF

NEW MANUFACTURING PLANT
FOR
OKLAHOMA INDUSTRIES AUTHORITY
TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

SWAY FRAMES

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

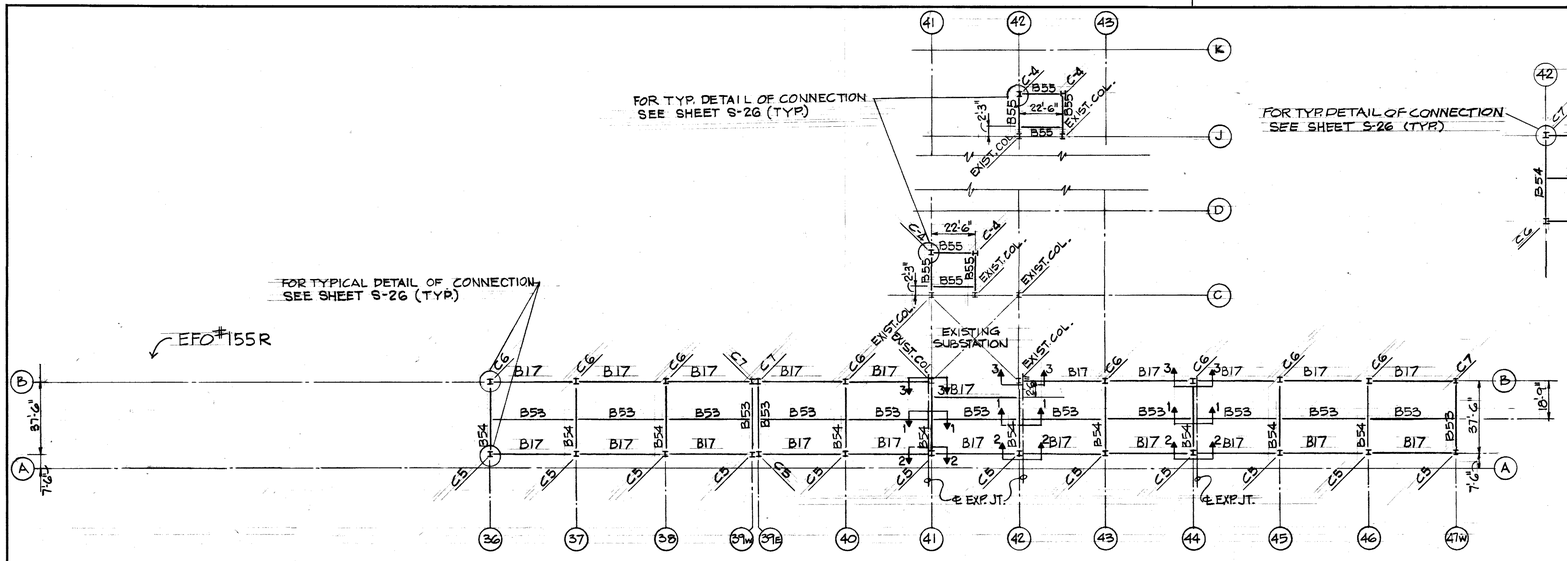
DATE 3-8-77
DRAWN BY ALCINI
JOB CAPT. KUCZYNSKI

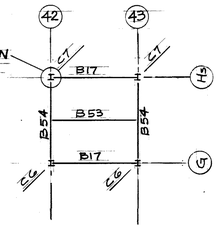
S33
SHEET NUMBER

ARGO 118 REV. 12-69 KSC 17 0133 5-24 1790

MAR 8 1978

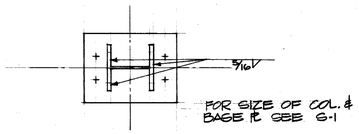
PROJECT NO. SHEET NO.

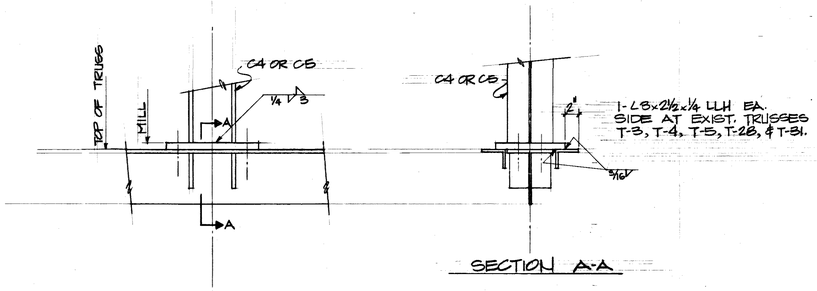




GRILLAGE FRAMING PLAN-FOR SOLAR ENERGY SYSTEM

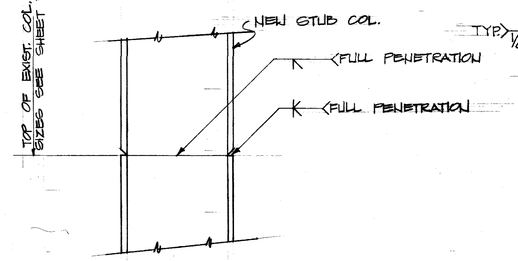
TOP OF STEEL EL. 1322'-6"



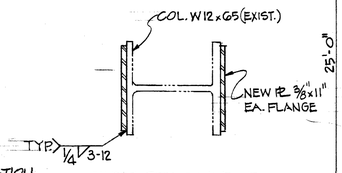


SECTION A-A

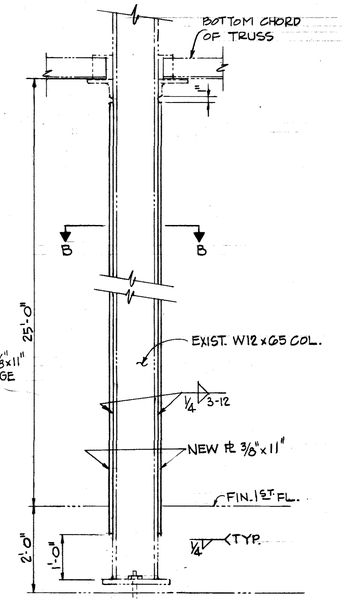
TYPICAL BASE PL DETAIL FOR STUB COLUMNS C4 & C5



TYPICAL SPLICE FOR STUB COLUMNS C6 & C7

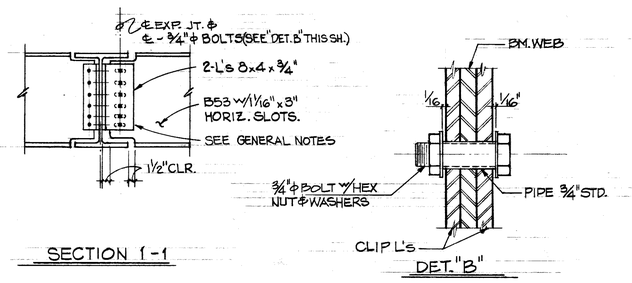


SECTION B-B



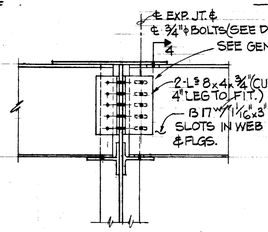
COLUMN 151 DETAIL

@ COL. NOS. B-36, B-37, B-38, B-40, B-43 & B-46

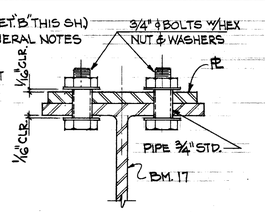


SECTION 1-1

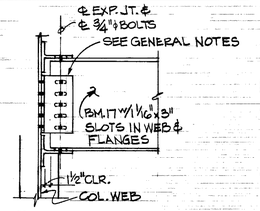
DET. "B"



SECTION 2-2



SECTION 4



SECTION 3-3

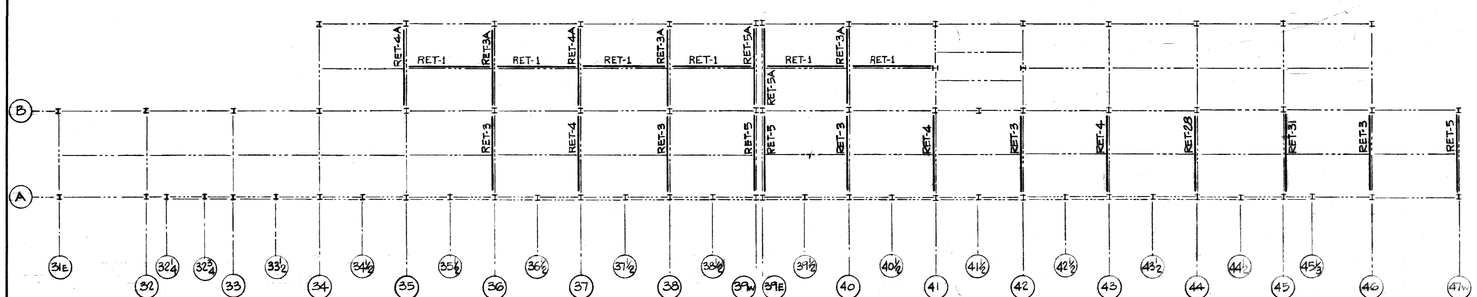
GENERAL NOTES CONTINUED.

FOR GENERAL NOTES SEE SHEET S-1.

A.) IN REINFORCING TRUSS MEMBERS, THE CONTRACTOR MAY REVISE/INCREASE THE SIZES OF NEW ANGLES SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL AND WITHOUT ADDITIONAL COST TO THE OWNER.

B.) ALL NEW WELDING IS DESIGNED USING E70XX ELECTRODES.

C.) SEE STRUCTURAL STEEL SHOP DRAWINGS FOR SIZES AND LENGTHS OF EXISTING TRUSS MEMBERS.



ROOF FRAMING PLAN - REINFORCING OF TRUSSES

LEGEND

EXISTING

REINFORCED TRUSSES

THIS SHEET ISSUED WITH EFO #155 DATED 11-11-77

DATE	ISSUED FOR	APPROVAL	APPROVAL
11-11-77	EFO #155		
3-1-78	REF. SOLAR BID		

NO.	DATE	BY	APPROVAL	APPROVAL
141	6-3-78	DG		
EFO 215	1-13-78	LRS		
EFO 155R	12-8-77	DG		
EFO 174	12-7-77	DG		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

DATE

ARGONAUT DIVISION OF GENERAL MOTORS ARCHITECTURE & ENGINEERING

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

G M ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

GRILLAGE FRAMING PLAN FOR SOLAR SYSTEM AND PLAN OF REINFORCED TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P.E. & C. PROJECT NUMBER

DATE 11-11-77

DRAWN BY L. MAULSBY

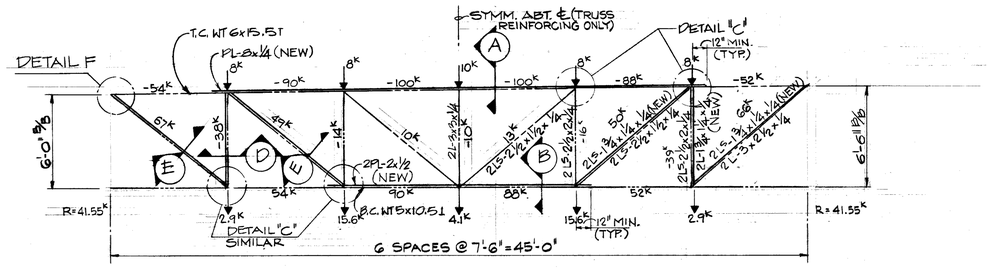
JOB CAPT. D. GASTGEB

S-34 SHEET NUMBER

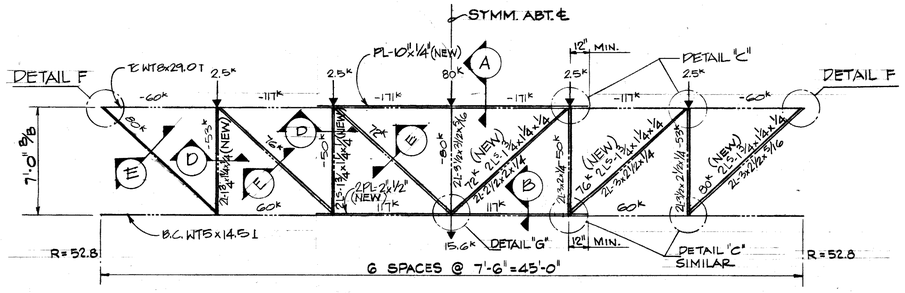
ARGO 148 K&E 17 0133 8-74 2027+

MAR 3 1978

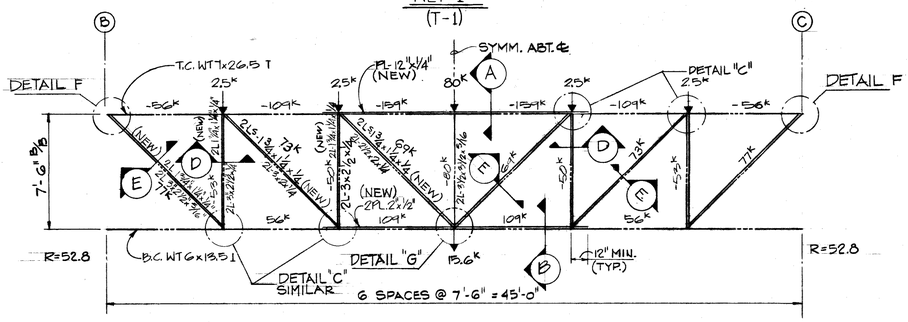
PROJECT NO. SHEET NO.



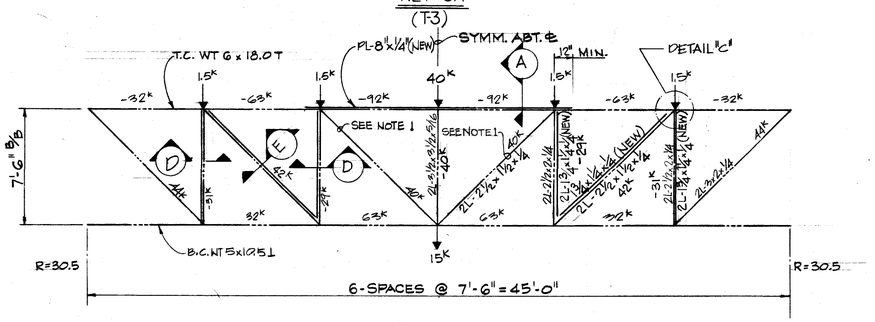
RET-1
(T-1)



RET-3A
(T-3)



RET-4A
(T-4)

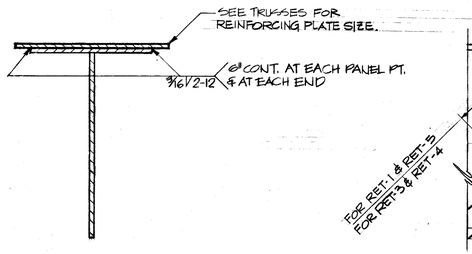


RET-5A
(T-5)

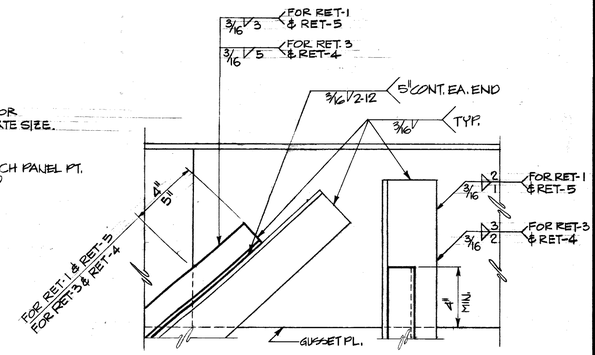
NOTE 1: ADD 4" EXTRA 3/16" WELD TO EACH END OF EXISTING MEMBER @ GUSSET PL'S.

LEGEND
EXISTING MEMBER
NEW MEMBER

FOR LOCATION OF TRUSSES SEE SH. S-34

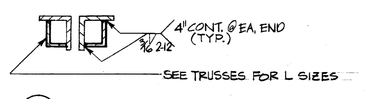


A TYPICAL SECTION THRU TOP OF TRUSS
SCALE: 1/4" = 1"

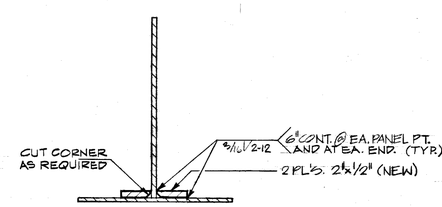


C TYPICAL TRUSS MEMBER CONNECTIONS
SCALE: 1/4" = 1" SIMILAR AT BOTTOM OF TRUSS

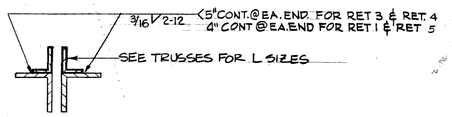
NOTE: DIAGONAL AND VERTICAL REINFORCING ADDED ONLY WHERE SHOWN ON TRUSS ELEV.



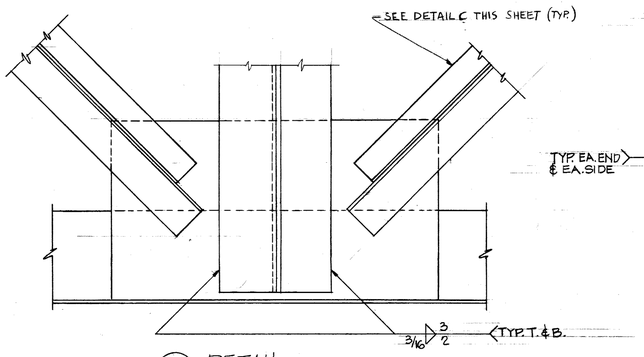
D TYPICAL SECTION THRU VERTICAL MEMBERS
SCALE: 1/4" = 1"



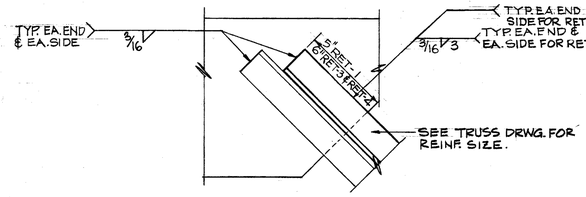
B TYPICAL SECTION THRU BOTTOM OF TRUSS
SCALE: 1/4" = 1"



E TYPICAL SECTION THRU DIAGONAL MEMBERS
SCALE: 1/4" = 1"



G DETAIL
SCALE: 1/4" = 1"



F TYPICAL CONNECTIONS
SCALE: 1/4" = 1"

THIS SHEET ISSUED WITH EFO #155 DATED 11-11-77

DATE	ISSUED FOR	APPROVAL	APPROVAL
11-11-77	EFO # 155		
5-1-78	REF. SCHED. BID		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		

REVISIONS

CONTRACT SIGNATURES: FOR THE OWNER / FOR THE CONTRACTOR

DRAWING CERTIFIED BY / DATE

ARGONAUT DIVISION GENERAL MOTORS — PLANT ENGINEERING AND CONSTRUCTION, MANUFACTURING STAFF — GENERAL MOTORS CORPORATION, 485 WEST MILWAUKEE AVENUE, DETROIT, MICHIGAN — ARCHITECTURE & ENGINEERING

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

REINFORCING OF TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION

ARGONAUT PROJECT NUMBER: 4500

DATE

DRAWN BY: EJM & LDM

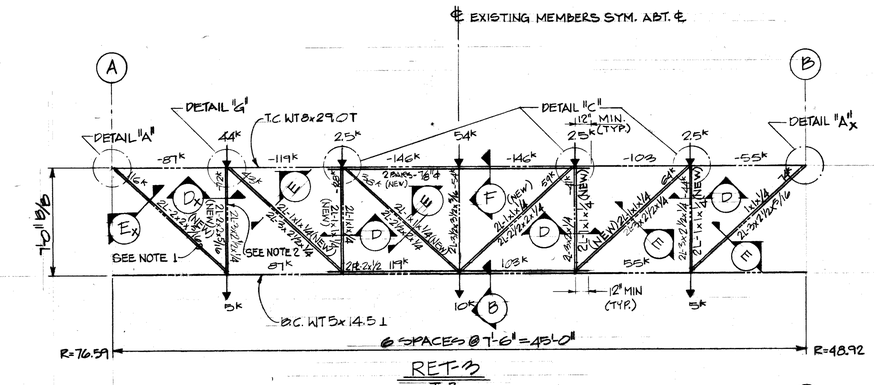
JOB CAPT. D. GASTGES

SHEET NUMBER: S-35

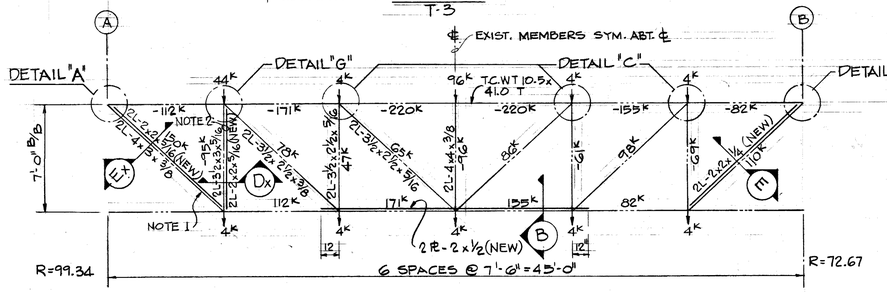
ARGO 145 K&E 17 0133 8-74 2027-

MAR 9 1978

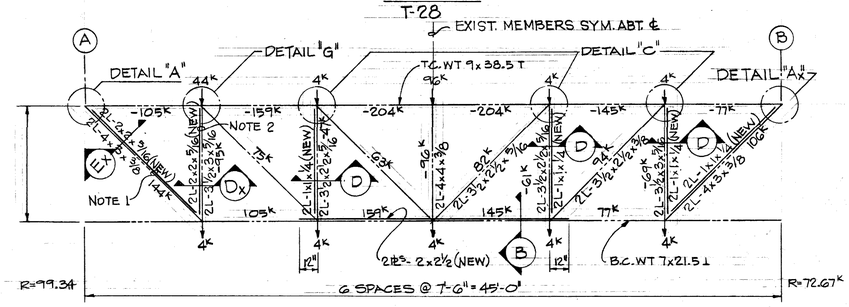
PROJECT NO. SHEET NO.



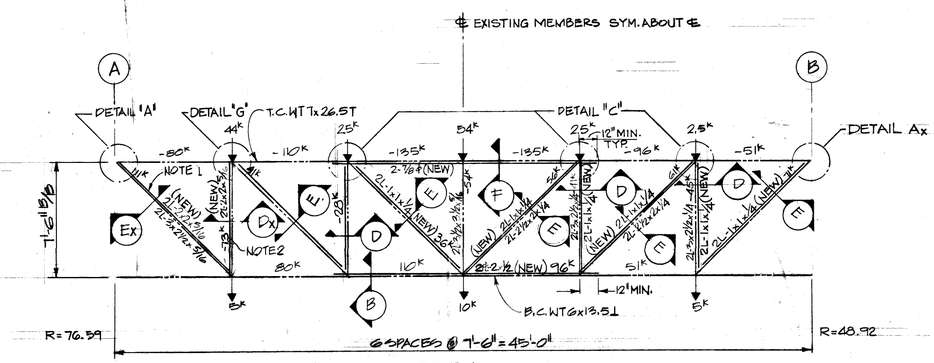
RET-3
T-3



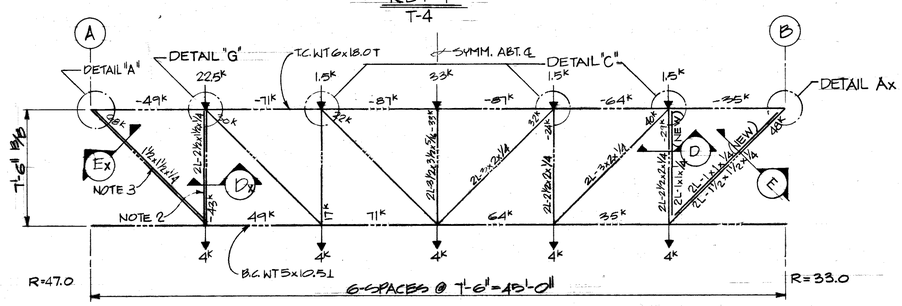
RET-28
T-28



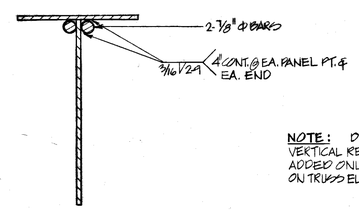
RET-31
T-31



RET-4
T-4

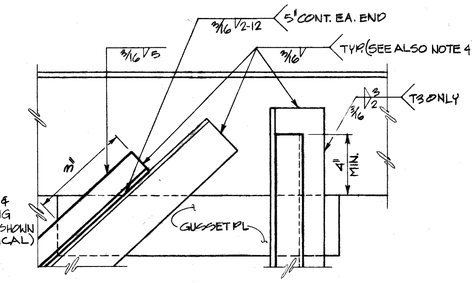


RET-5
T-5

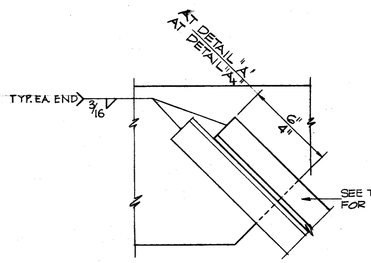


F — SECTION THRU T.C. OF T-3 & T-4
SCALE: 1/4" = 1"

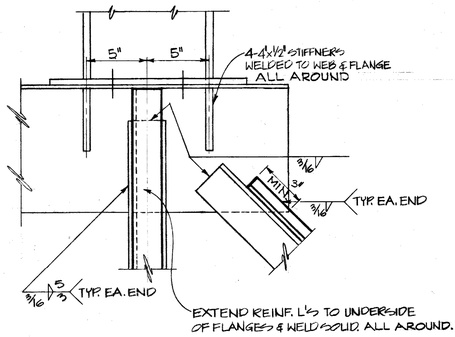
NOTE: DIAGONAL & VERTICAL REINFORCING ADDED ONLY WHERE SHOWN ON TRUSS ELEV. (TYPICAL)



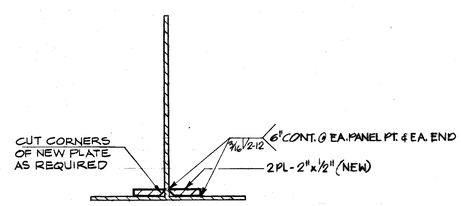
C — TYPICAL TRUSS MEMBER CONNECTIONS
SCALE: 1/4" = 1" (SIMILAR @ BOTTOM OF TRUSS)



A Ax — TYPICAL CONNECTIONS
SCALE: 1/4"
SIMILAR AT BOTTOM OF TRUSS

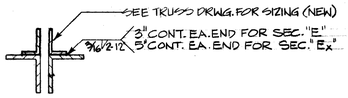


G — TRUSS MEMBER CONNECTIONS @ T-3
SCALE: 1/4" = 1"



B — TYPICAL SECTION THRU BOTTOM OF TRUSS
SCALE: 1/4" = 1"

D Dx — TYPICAL SECTION THRU VERTICAL MEMBERS
SCALE: 1/4" = 1"



E Ex — TYPICAL SECTION THRU DIAGONAL MEMBERS
SCALE: 1/4" = 1"

NOTE 1. ADD 11" OF 3/16" WELD @ EA. END OF EXISTING MEMBER.

NOTE 2. ADD 8" OF 3/16" WELD @ EA. END OF EXISTING MEMBER

NOTE 3. ADD 5" OF 3/16" WELD @ EA. END OF EXISTING MEMBER.

NOTE 4. ADD 3/16" WELD AT END OF EACH WEB MEMBER EVEN THOUGH NO ADDITIONAL STEEL REINFORCING IS CALLED FOR.

FOR LEGEND SEE SHEET S-35.

THIS SHEET ISSUED WITH EFO #155 DATED 11-11-77

DATE	ISSUED FOR	APPROVAL	APPROVAL
11-11-77	EFO #155		
5-1-78	REF. BOLAB. BID		

NO.	DATE	BY	APPROVAL	APPROVAL
141	5-3-78	DG		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — DATE

ARGONAUT DIVISION OF GENERAL MOTORS — PLANT ENGINEERING AND CONSTRUCTION — MANUFACTURING STAFF — ARCHITECTURE & ENGINEERING — GENERAL MOTORS CORPORATION

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

REINFORCING OF TRUSSES

SHEET TITLE

OWNER'S IDENTIFICATION	4500 ARGONAUT PROJECT NUMBER
DATE 11-11-77	
DRAWN BY E. McGANN	S-36
JOB CAPT. D. GASTGEB	SHEET NUMBER

ARGO 149 K&E 17 0153 8-74 3027-

MAR 3 1978