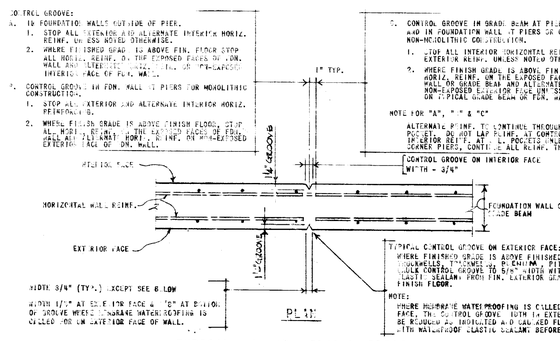
PROJECT NO. SHEET NO.

NOTE:
SEE SHEET C-27 FOR NOTES PERTAINING TO SPECIAL INFORMATION ON CONSTRUCTION JOINTS IN PLENUM AREA.

CONTROL GROOVE:
A. IN FOUNDATION WALLS OUTSIDE OF PIER.
1. STOP ALL INTERIOR AND ALTERNATE INTERIOR HORIZ. REINF. UNLESS NOTED OTHERWISE.
2. WHERE FINISH GRADE IS ABOVE FIN. FLOOR STOP ALL HORIZ. REINF. ON THE EXPOSED FACES OF FOUNDATION WALL AND ALTERNATE HORIZ. REINF. ON THE NON-EXPOSED INTERIOR FACE OF FDN. WALL.
B. CONTROL GROOVE IN FDN. WALL IN PIERS FOR MONOLITHIC CONSTRUCTION.
1. STOP ALL EXTERIOR AND ALTERNATE INTERIOR HORIZ. REINFORCING.
2. WHERE FINISH GRADE IS ABOVE FINISH FLOOR, STOP ALL HORIZ. REINF. ON THE EXPOSED FACES OF FDN. WALL AND ALTERNATE HORIZ. REINF. ON THE NON-EXPOSED EXTERIOR FACE OF FDN. WALL.

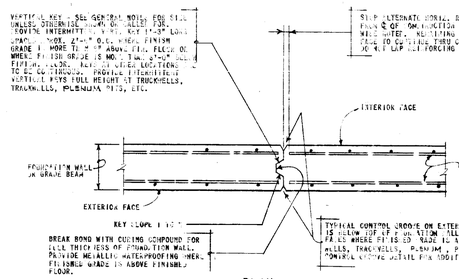


TYPICAL CONTROL GROOVE DETAIL

2. CONTROL GROOVE IN GRADE BEAM AT PIERS OR COLUMN POCKETS AND IN FOUNDATION WALL AT PIERS OR COLUMN POCKETS FOR NON-MONOLITHIC CONSTRUCTION.
1. STOP ALL INTERIOR HORIZONTAL REINF. AND ALTERNATE EXTERIOR REINF. UNLESS NOTED OTHERWISE.
2. WHERE FINISH GRADE IS ABOVE FINISH FLOOR, STOP ALL HORIZ. REINF. ON THE EXPOSED FACES OF FOUNDATION WALL OR GRADE BEAM AND ALTERNATE HORIZ. REINF. ON NON-EXPOSED EXTERIOR FACE UNLESS NOTED OTHERWISE ON TYPICAL GRADE BEAM OR FDN. WALL SECTIONS.

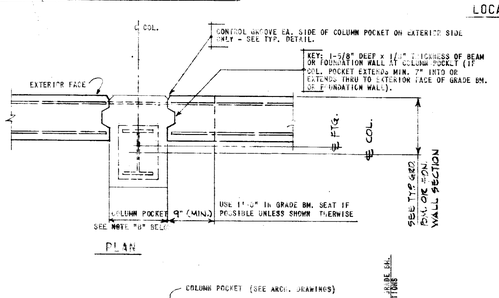
NOTE FOR "A", "B" & "C"
ALTERNATE REINF. TO CONTINUE THROUGH THE OF COLUMN POCKET. DO NOT LAP REINF. AT CONTROL GROOVE. STOP ALL INTERIOR REINF. AT COLUMN POCKETS UNLESS NOTED. AT CORNER POCKETS, CONTINUE ALL REINF. THROUGH PIER.

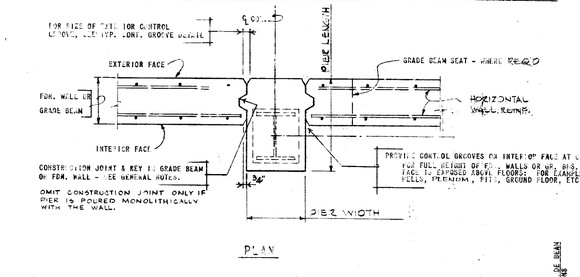
TYPICAL CONTROL GROOVE ON EXTERIOR FACE:
WHERE FINISHED GRADE IS ABOVE FINISHED FLOOR (SUCH AS COURTYARDS, TRENCHES OR PLENUMS, PITS & TUNNELS), CONTROL GROOVE TO 5/8" WIDE WITH WATERPROOF ELASTIC SEALANT FROM FIN. EXTERIOR GRADE TO 6" BELOW FINISH FLOOR.
NOTE:
WHERE MEMBRANE WATERPROOFING IS CALLED FOR ON EXTERIOR FACE, THE CONTROL GROOVE WITH EXTERIOR GRADE IS TO BE REDUCED AS INDICATED AND CALLED FLUSH TO FULL DEPTH WITH WATERPROOF ELASTIC SEALANT BEFORE MEMBRANE IS APPLIED.

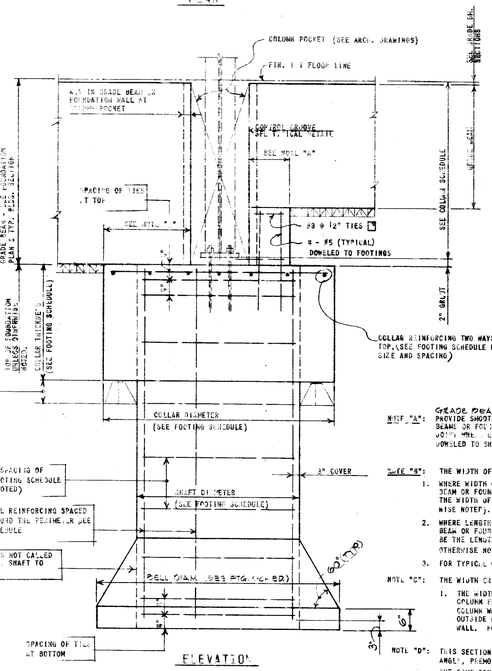


TYPICAL CONSTRUCTION JOINT DETAIL IN FOUNDATION WALLS

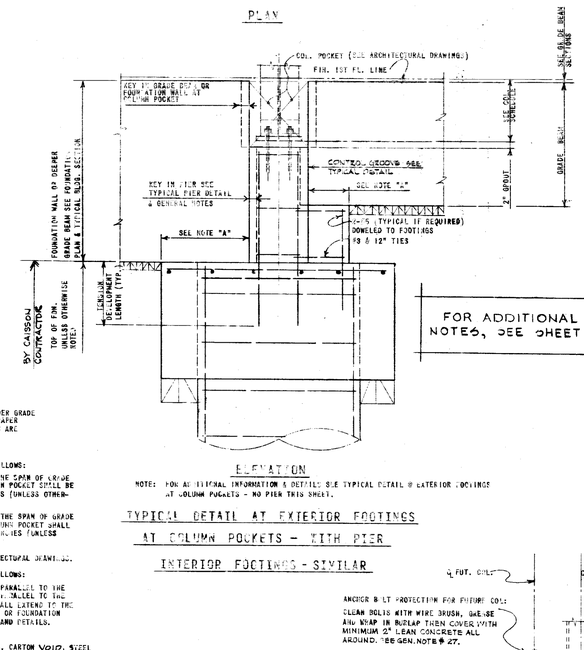
LOCATE AT CONTROL GROOVE LOCATIONS WHERE REQUIRED TO STOP CONCRETE POUR







TYPICAL DETAIL AT EXTERIOR FOOTINGS
AT COLUMN POCKETS - NO PIER
INTERIOR FOOTINGS - SIMILAR



FOR ADDITIONAL GENERAL NOTES, SEE SHEET C-2.

NOTE: FOR ALL EXTERNAL INFORMATION & DETAILS SEE TYPICAL DETAIL @ EXTERIOR FOOTINGS AT COLUMN POCKETS - NO PIER THIS SHEET.

TYPICAL DETAIL AT EXTERIOR FOOTINGS
AT COLUMN POCKETS - WITH PIER
INTERIOR FOOTINGS - SIMILAR

NOTE "A": GRADE BEAM SEAT
PROVIDE SMOOTH SURFACE & TARPAPER JOINT UNDER GRADE BEAMS OR FOUNDATION WALLS (TYP.) OMIT TARPAPER JOINT WHEN GRADE BEAMS OR FOUNDATION WALLS ARE DOWELED TO SHAFT OR COLLAR.

NOTE "B": THE WIDTH OF COLUMN POCKETS SHALL BE AS FOLLOWS:
1. WHERE WIDTH OF BASE PLATE IS PARALLEL TO THE SPAN OF GRADE BEAM OR FOUNDATION WALL THE WIDTH OF COLUMN POCKET SHALL BE THE WIDTH OF BASE PLATE PLUS SIX (6) INCHES (UNLESS OTHERWISE NOTED).
2. WHERE LENGTH OF BASE PLATE IS PARALLEL TO THE SPAN OF GRADE BEAM OR FOUNDATION WALL. THE WIDTH OF COLUMN POCKET SHALL BE THE LENGTH OF BASE PLATE PLUS SIX (6) INCHES (UNLESS OTHERWISE NOTED).
3. FOR TYPICAL CONCRETE ENCASEMENT SEE ARCHITECTURAL DRAWINGS.

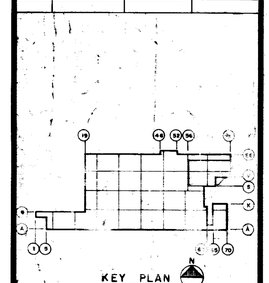
NOTE "C": THE WIDTH OR LENGTH OF PIER SHALL BE AS FOLLOWS:
1. THE WIDTH OF THE PIER SHALL ALWAYS BE PARALLEL TO THE COLUMN FLANGE AND THE LENGTH SHALL BE PARALLEL TO THE COLUMN WEB. THE LENGTH OF THE PIER SHALL EXTEND TO THE OUTSIDE EXTREME EDGE OF THE GRADE BEAM OR FOUNDATION WALL. FOR SIZES SEE FOOTING SCHEDULE AND DETAILS.

NOTE "D": THIS SECTION OF SLAB INCLUDING REINFORCING, CARTON VOID, STEEL ANGLE, PREMOLDED JOINT, ETC. TO BE INCLUDED AND INSTALLED BY THE SAME CONTRACTOR WHO INSTALLS GRADE BMS & FDN. WALLS.

NOTE: ALL DOWELS TO EXTEND MIN. 40 DIA. UNLESS OTHERWISE DETAILED.

GENERAL NOTES: (THE PHRASE "UNLESS OTHERWISE SHOWN OR NOTED" REFERS TO FACH NOTE.)

1. CONCRETE STRENGTH: MINIMUM REQUIRED STRENGTH OF CONCRETE (PSI) AT 28 DAYS TO BE AS FOLLOWS:
ALL PIERS, GRADE BEAMS, EXTERIOR WALLS - ALL PLENUM CONSTRUCTION - 4000 P.S.I.
INTERIOR WALLS - 4000 PSI
DRILLED IN FOOTINGS, CAISSON & DRILLED IN PIERS - 3000 PSI
SEE SPECIFICATIONS FOR REMAINING CONSTRUCTION TYPES.
2. REINFORCING STEEL: SEE SPECIFICATIONS FOR REQUIREMENTS. TENSILE STRESSES (LBS./SQ.IN.) USED IN DESIGN ARE AS FOLLOWS:
FOR REINFORCING STEEL BARS:
GRADE 60 - YIELD 60,000, ALLOWABLE 20,000, TO BE USED UNLESS NOTED.
GRADE 40 - YIELD 40,000, ALLOWABLE 20,000. TO BE USED ONLY WHERE SPECIFICALLY CALLED FOR OR AS FOLLOWS: CAISSON TIES, BEAM STIRRUPS - COLLAR PIER TIES.
3. CONCRETE PROTECTION FOR REINFORCING STEEL FOR CAST-IN-PLACE CONSTRUCTION
3" CLEAR FOR SURFACES DEPOSITED AGAINST THE GROUND OR EXPANSIVE POCKET FORMS
2" CLEAR FOR FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER EXCEPT FOR WALLS WITH #5 OR SMALLER. USE MIN. 1½" CLEAR
SEE SPECIFICATION FOR OTHER REQUIREMENTS.
4. ALL CONSTRUCTION JOINTS SHALL BE KEYED WITH KEY CENTERED ON MEMBER. WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY WIDTH SHALL BE ONE THIRD OF THE CROSS SECTION DIMENSION OF THE MEMBER AND THE KEY DEPTH SHALL BE 1½" OF THE CROSS SECTION DIMENSION OF THE MEMBER WITH A MINIMUM DIMENSION OF 2½ INCHES.
5. FOOTINGS AND FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED NATURAL SOIL UNLESS SPECIFICALLY STATED THAT THEY REST ON FIRM THOROUGHLY COMPACTED APPROVED FILL. THE MINIMUM ALLOWABLE BEARING CAPACITY FOR DEAD LOAD AND LIVE LOAD CONDITIONS SHALL BE 4,000 LBS./SQ.FT. AS ASSUMED IN THE DESIGN AND MIN. 2000 LBS./SQ.FT. FOR DEAD LOAD ONLY. FOR OTHER MINIMUM ALLOWABLE BEARING CAPACITIES SEE FOOTING SCHEDULE OR PLAN.
6. ALL FOOTING DEPTHS AND EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF THE TESTING LABORATORY WHO SHALL BE CONSULTED WHEN POOR SOIL, WATER OBSTRUCTIONS, PIPING, ADJACENT SEWER, EXISTING FOOTINGS, EXCAVATIONS, ETC., ARE ENCOUNTERED.
7. SEE SPECIFICATIONS FOR SETTING OF ANCHOR BOLTS, LEVELING PLATES, COLUMN BASE PLATES AND FOR PROVIDING AND PLACING OF GROUT BEDS. SEE STRUCTURAL STEEL SHOP DRAWINGS FOR ELEVATION OF LEVELING PLATES, BASE PLATES, LOCATION OF ANCHOR BOLTS. DIMENSION FOR GROUT THICKNESS INCLUDES THICKNESS OF LEVELING PLATES.
8. PROVIDE POCKETS FOR REPESTS FOR COLUMNS AND BEAMS AS REQUIRED AND/OR AS CALLED FOR IN THE SPECIFICATIONS EVEN IF NOT SHOWN ON THE DRAWINGS.
9. PROVIDE RECESS IN TOP OF FOUNDATION WALLS AND GRADE BEAMS AT DOOR OPENINGS, RAMPS, ETC. FOR SUPPORT OF THICKENED FLOOR SLABS AND TO RECEIVE DOOR JAMBS. DEPTH OF RECESS TO BE 2 INCHES GREATER THAN THICKNESS OF FLOOR SLAB UNLESS OTHERWISE SHOWN OR NOTED.
10. WHERE FOUNDATION WALL FOOTINGS ARE USED AS CALLED FOR ON FOUNDATION DRAWINGS OR ARCHITECTURAL DRAWINGS AND THE FOUNDATION WALL ACCOMODATES FRAMES INTO PITS, UNDERGROUND TUNNELS OR OTHER DEEP FOOTINGS EXCEPT DRILLED, THE FOOTINGS WHICH ARE LONGER THAN THE FOUNDATION WALL FOOTINGS, THE TOP OF WALL FOOTINGS ARE TO BE FLUSH WITH THE TOP OF LOWER FOOTING. STEP WALL FOOTINGS AS REQUIRED AT A RATIO OF TWO (2) HORIZONTAL TO ONE (1) VERTICAL.
11. PROVIDE HORIZONTAL DOWEL BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS USING THE SAME SIZE AND SPACING AS FOR HORIZONTAL WALL REINFORCING. USE BENT DOWELS IF NECESSARY TO DEVELOPE ANCHORAGE, SEE TYP. DETAIL S-AT. C-35.
12. PROVIDE VERTICAL DOWELS FROM COLUMN AND PIER FOOTINGS TO PIERS AND COLLARS; AND FROM WALL FOOTINGS TO WALLS OF SAME SIZE AND SPACINGS AT VERTICAL REINFORCING AND OFFSET FOR SPLICES AS REQUIRED.
DOWELS TO EXTEND INTO PIERS AND COL. AND PIER FOOTINGS A MIN. 40 BAR DIAMETERS.
DOWELS IN RETAINING WALLS TO DEVELOPE TENSION LAP AND ANCHORAGE.
13. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT SHOWN OR CALLED FOR. VERIFY ALL EXISTING DIMENSIONS BEFORE PROCEEDING WITH NEW WORK.
14. "AS BUILT" DRAWINGS: SHOW ACTUAL BOTTOM OF FOOTING ELEVATIONS AND OTHER APPROVED DEVIATIONS FROM THE PLANS IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE SPECIFICATIONS.
15. ALL CONCRETE WORK, CONSTRUCTION AND REINFORCING RETAINING SHALL COMPLY WITH THE SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE STANDARD "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318-71.
16. ALL STEEL COLUMNS, BASE PLATES, AND ALL OTHER STEEL BELOW GRADE SHALL BE PROTECTED WITH A MINIMUM OF 3" CONCRETE COVER BY CONCRETE CONTRACTOR.
17. ALL EXCAVATIONS AND REINFORCING SET IN PLACE MUST BE INSPECTED AND APPROVED BY THE TESTING LABORATORY BEFORE CONCRETE IS DEPOSITED.
18. PROVIDE A MINIMUM OF 2 - #5 BARS AROUND EACH SIDE OF ALL OPENINGS IN CONCRETE WALLS, GRADE BEAMS, TUNNEL WALLS, AND SLABS, EXCEPT WHICH ARE NOT SLEEVED. LENGTH OF BARS ARE TO BE 4'-0" LONGER THAN THE SIZE OF THE OPENING. IF OPENING IS NOT DETAILED, ITS LOCATION AND SIZE MUST BE CONTROLLED TO AVOID STRUCTURAL IMPAIRMENT AND IS SUBJECT TO THE APPROVAL OF THE ARCHITECT-ENGINEER.
19. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS. UNLESS NOTED OTHERWISE.
20. WHERE GRADE BEAMS ARE BACK-FILLED TO A DIFFERENCE IN ELEVATION GREATER THAN 1'-6" THE GRADE BEAM IS TO BE SHORED ON THE SIDE OPPOSITE THE HIGHER ELEVATION OF BACKFILL AND SHORING IS TO REMAIN IN PLACE UNTIL FIRST FLOOR SLABS ARE IN PLACE AND PROPERLY CURED.
21. TYPICAL DETAILS, REINFORCING, WATERSTOPS AND DAMP-PROOFING MEMBRANE SHOWN ON ANY DRAWING SHALL BE APPLICABLE TO THE ENTIRE JOB, UNLESS SHOWN OR CALLED FOR OTHERWISE.
22. CONCRETE CONTRACTOR SHALL PROVIDE CONCRETE FILL AT POCKETS AND RECESSES AT COLUMNS AND BEAMS AS REQUIRED AND/OR AS CALLED FOR IN THE SPECIFICATIONS EVEN IF NOT SHOWN ON THE DRAWINGS.
23. FOR UNDERGROUND MECHANICAL AND ELECTRICAL LINES PASSING THROUGH FOUNDATION WALLS OR GRADE BEAMS, SEE MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS.
24. THE FOLLOWING DRILLED IN FOOTINGS SHALL BE REINFORCED:
a) ALL FOOTINGS CONSISTING OF SHAFT AND BELL AROUND THE EXTERIOR PERIMETER OF THE BUILDING AND THE FOOTINGS CONSISTING OF SHAFT AND BELL AT FIRST INTERIOR COLUMNS AROUND THE EXTERIOR PERIMETER OF THE BUILDING SHALL BE REINFORCED REGARDLESS OF ITS BOTTOM ELEVATION.
b) WHERE BOTTOM ELEVATION OF FOOTING IS LESS THAN 10'-0" BELOW FIRST FLOOR AND THE BELL DIAMETER IS 4'-6" OR MORE.
c) WHERE BOTTOM ELEVATION OF FOOTING IS GREATER THAN 10'-0" BELOW FIRST FLOOR AND THE FOOTING CONSISTS OF SHAFT AND BELL.
d) WHERE BOTTOM OF FOOTING IS MORE THAN 15'-0" BELOW FIRST FLOOR AND THE FOOTING CONSISTS OF SHAFT ONLY.
e) THE FOLLOWING VERTICAL REINFORCING SHALL BE PROVIDED IN FOOTINGS. REINFORCING SHALL STOP 3" FROM THE BOTTOM OF BELL AND 12" FROM TOP OF SHAFT OR COLLAR, WHICHEVER IS HIGHER. - SEE ALSO ITEM NO 12 ABOVE.
2'-6" ⌀ SHAFT - 6 - #8
3'-0" ⌀ SHAFT - 8 - #8
3'-6" ⌀ SHAFT - 9 - #8
4'-0" ⌀ SHAFT - 10 - #8
4'-6" ⌀ SHAFT - 12 - #8
5'-0" ⌀ SHAFT - 14 - #8
5'-6" ⌀ SHAFT - 16 - #8
(THE TIES SHALL BE AS SHOWN ON TYPICAL FOOTING ELEVATION.)
25. WHEN THE FOOTING CONSISTS OF SHAFT AND BELL AND THE BOTTOM OF BELL IS LESS THAN 12'-0" BELOW THE FIRST FLOOR AND THE BELL DIAMETER IS 4'-6" OR LESS, THE CAISSON CONTRACTOR MAY AT HIS OPTION AND AT NO EXTRA COST TO THE OWNER PROVIDE SHAFT DIAMETER OF SAME SIZE AS BELL DIAMETER AND ELIMINATE FOOTING REINFORCING.
26. ALL JOINTS BETWEEN BELL AND SHAFT, SHAFT AND SHAFT, SHAFT AND COLLAR SHALL BE CONNECTED TO EACH OTHER WITH MINIMUM REINFORCING AS CALLED FOR IN ITEM #24 OF GENERAL NOTES. THE DOWELS SHALL EXTEND 40 DIAMETERS DOWN AND 40 DIAMETERS UP AT THE HORIZONTAL JOINT. THE DIAMETER OF SHAFT SHALL DETERMINE THE NUMBER AND THE SIZE OF REINFORCING.
27. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ANCHOR BOLTS FOR FUTURE EXPANSION AS SHOWN ON TYPICAL FOOTING DETAILS OR AS CALLED FOR IN FOOTING SCHEDULE. ANCHOR BOLTS FOR FUTURE EXPANSION TO BE 2-16 ⌀ x 2'-0" LG. INCLUDING 4" HOOK (UNLESS OTHERWISE SHOWN OR NOTED. ANCHOR BOLTS SHALL EXTEND 6" ABOVE TOP OF CONCRETE FTG. AND SHALL HAVE 5" THREAD.
THE CAISSON CONTRACTOR SHALL INSTALL ANCHOR BOLTS FOR FUTURE EXPANSION, GREASE & WRAP EXPOSED ANCHOR BOLTS WITH BURLAP & COVER WITH LEAN CONCRETE A MINIMUM OF 2" ALL AROUND.
28. WHERE COLLAR AND SHAFT ARE CALLED FOR IN THE FOOTING SCHEDULE AND THE COLLAR DIAMETER IS 5'-6" OR LESS THE CAISSON CONTRACTOR MAY AT HIS OPTION AND AT NO EXTRA COST TO THE OWNER PROVIDE SHAFT DIAMETER OF SAME SIZE AS COLLAR DIAMETER. THE REINFORCING IN COLLAR - SIZE SHAFT SHALL BE INCREASED ACCORDINGLY (BOTH VERTICAL REINFORCING AND TIES)
29. MINIMUM DIMENSION TO THE BOTTOM OF INTERIOR COLUMN AND GRADE BEAM FOOTINGS SHALL BE 8'-0" BELOW FINISHED FIRST FLOOR AT EL. 127'-0" MINIMUM DIMENSION TO THE BOTTOM OF EXTERIOR COLUMN AND GRADE BEAM FOOTINGS SHALL BE 10'-0" BELOW FINISHED FIRST FLOOR AT EL. 127'-0" FOR BOTTOM ELEVATION OF FOOTINGS SEE FOUNDATION PLANS.
WHERE ACTUAL SOIL CONDITIONS INDICATE SOIL BEARING VALUES ASSUMED IN DESIGN AT HIGHER ELEVATIONS THAN THOSE CALLED FOR ON FOUNDATION DRAWINGS, FOR FOOTINGS DEEPER THAN 10'-0" BELOW FINISH FIRST FLOOR, THE CAISSON CONTRACTOR SHALL INFORM TESTING LABORATORY AND IF APPROVED MAY RAISE BOTTOM OF FOOTING ELEVATION TO SATISFY ENGINEERING REQUIREMENTS.
WHERE ASSUMED DESIGN BEARING PRESSURE ARE NOT REACHED AT ELEVATIONS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL LOWER BOTTOM OF FOOTINGS IN INCREMENTS OF 2'-0" IN DEPTH (MAXIMUM 8'-0") TO SATISFY DESIGN BEARING REQUIREMENTS UNLESS OTHERWISE DIRECTED BY TESTING LABORATORY.
30. IF THE EXISTING SOIL WITHIN THE AREA AT THE BOTTOM OF THE FOOTINGS IS SATURATED WITH WATER THE CONTRACTOR SHALL LOWER THE BOTTOM OF THE FOOTINGS TO SUITABLE AND STABLE SOIL.
31. THE CAISSON CONTRACTOR SHALL LOCATE EXISTING AND ABANDONED 21" DIAMETER WATER PIPE. WHERE AND IF DRILLED-IN FOOTINGS FALL WITHIN THE EXISTING PIPE OR PIPE TRENCH THE FOUNDATION CONTRACTOR SHALL BREAK EXISTING PIPE AS REQUIRED AND PLACE THE BOTTOM OF FOOTING MIN. 2'-0" BELOW THE BOTTOM OF THE PIPE.
32. CONTROL JOINTS IN TUNNELS, TRANSWELLS, LONG PITS ETC. ARE TO BE SPACED A MAXIMUM OF 22'-6" APART.
33. BEFORE POURING CONCRETE SLAB ON GRADE, THE CONTRACTOR SHALL SATURATE WITH WATER THE TOP SURFACE OF THE SOIL 24 HOURS PRIOR TO POURING OF CONCRETE AND MOISTEN WITHOUT PUDDLING, TOP SURFACE OF GRADE JUST PRIOR TO POURING OF CONCRETE SLAB, ALSO SEE SPEC.
34. ALL CONTRACTORS SHALL TAKE SPECIAL AND EFFECTIVE PRECAUTION TO PREVENT WATER FROM PERMEATING THE LIME STABILIZED SOIL SURFACE.
a) IN THE EVENT OF PRECIPITATION THE CONTRACTOR SHALL TAKE EFFECTIVE MEASURES TO PROTECT OPEN EXCAVATIONS, COLUMN POCKETS, GRADE BEAM TRENCHES, PIPE TRENCHES, PITS ETC. WHICH EXTEND BELOW THE LIME STABILIZED SOIL. - SEE ALSO SPECIFICATIONS.
b) CONCRETE SHALL NOT BE DEPOSITED BELOW THE LIME STABILIZED SOIL LAYER IF THE MOISTURE CONTENT OF SOIL IS MORE THAN FOUR (4) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT. IF THE EXCAVATED AREA IS SATURATED WITH WATER, THE SOIL SHALL BE ALLOWED TO DRY BEFORE ANY CONCRETE CAN BE DEPOSITED. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE TESTING LABORATORY, WHO SHALL DETERMINE IF THE SOIL IS WITHIN THE ALLOWABLE LIMITS OF DRYNESS BEFORE DEPOSITING THE CONCRETE.
c) AFTER THE DRILLED-IN CONCRETE FOOTINGS (CAISSONS) ARE POURED, THE COLUMN POCKET SHALL BE PROTECTED WITH A CLOSURE WHICH THE CONTRACTOR SHALL GREASE THE ANCHOR BOLTS AND WRAP THEM WITH BURLAP. THE COLUMN POCKET SHALL THEN BE BACKFILLED WITH ORDINARY TREATED SOIL WITH A MINIMUM OF 5% OF LIME. THIS FILL SHALL BE CROWNED TO 3" AT THE CENTER LINE OF THE FOOTING AND SHALL BE LIME STABILIZED.
d) THE STRUCT. STEEL CONTRACTOR SHALL REMOVE THE FILL AND THE BURLAP PLACED BY THE CAISSON CONTRACTOR AS REQUIRED TO ERECT THE STRUCTURAL STEEL COLUMNS. AFTER THE COLUMNS ARE ERECTED, THE STRUCT. STEEL CONTRACTOR SHALL BACKFILL THE COLUMN POCKETS WITH ORDINARY FILL MATERIAL TO AN ELEVATION OF MINUS NINE (9) INCHES BELOW THE EXISTING SURFACE. THE REMAINING 9" OF FILL SHALL BE LIME TREATED SOIL WITH A MINIMUM OF 5% OF LIME. THIS FILL SHALL BE CROWNED TO 3" AT THE CENTER LINE OF THE FOOTING AND SHALL BE WELL COMPACTED. IN THE EVENT OF PRECIPITATION, ANY OPEN HOLE SHALL BE PROTECTED WITH A CLOSURE WHICH IS A MINIMUM OF 12" LARGER THAN THE OPEN HOLE.
e) AFTER FINAL ALIGNMENT OF THE COLUMNS AND THE STRUCTURE, THE STRUCT. STEEL CONTRACTOR SHALL REPLACE THE FILL AT EACH COLUMN AS REQUIRED.
f) THE CONTRACTOR SHALL LIMIT THE EXTENT OF INSTALLATION OF GRADE BEAMS, FOUNDATION WALLS, PIPES, PITS, ETC. IN SUCH A MANNER THAT ALL EXCAVATIONS SHALL BE PROTECTED EFFECTIVELY AGAINST THE WATER. THE CAST IN PLACE GRADE BEAMS AND WALLS SHALL BE CURED FOR A MINIMUM PERIOD OF 48 HOURS BEFORE BACKFILLING.
35. THE TOP OF GRADE BEAMS OR FOUNDATION WALLS WHICH ARE TO RECEIVE PRECAST CONCRETE PANELS SHALL BE TRUE AND STRAIGHT AND THE TOP ELEVATION SHALL NOT VARY MORE THAN PLUS OR MINUS ¼ INCH IN 20'-0".
36. THE DEAD LOAD CALLED FOR IN FOOTING SCHEDULE INDICATES THE MINIMUM DEAD LOAD. THE TOTAL LOAD CALLED FOR IN FOOTING SCHEDULE INDICATES THE MAXIMUM DEAD LOAD PLUS MAXIMUM LIVE LOAD.



DATE	ISSUED FOR	APPROVAL	APPROVAL
3-16-77	TEST PRODUCT ST.		
2-28-77	REDIM FOOTINGS		
2-25-77	REDIMS PIERS		
2-24-77	SA 100-01, B-3		
2-2-77	TEST PRODUCT MAT	BIDING SET	PANEL S.
1-13-77	FIRST FLOOR	BIDING SET	
1-28-77	CONCRETE COLUMN BASES		
1-28-77	FIRST FLOOR COLUMN BASES		
1-19-77	PARKING SLAB		
6-26-76	DRAFT ISSUE		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-15-76	D.G.	AS BUILT	
61	7-7-77	E.K.		
78	8-25-77	E.K.		
PC-18	5-11-77	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
GM ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

GENERAL NOTES AND TYPICAL DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

PROJECT NUMBER 4500

DATE 8-25-77

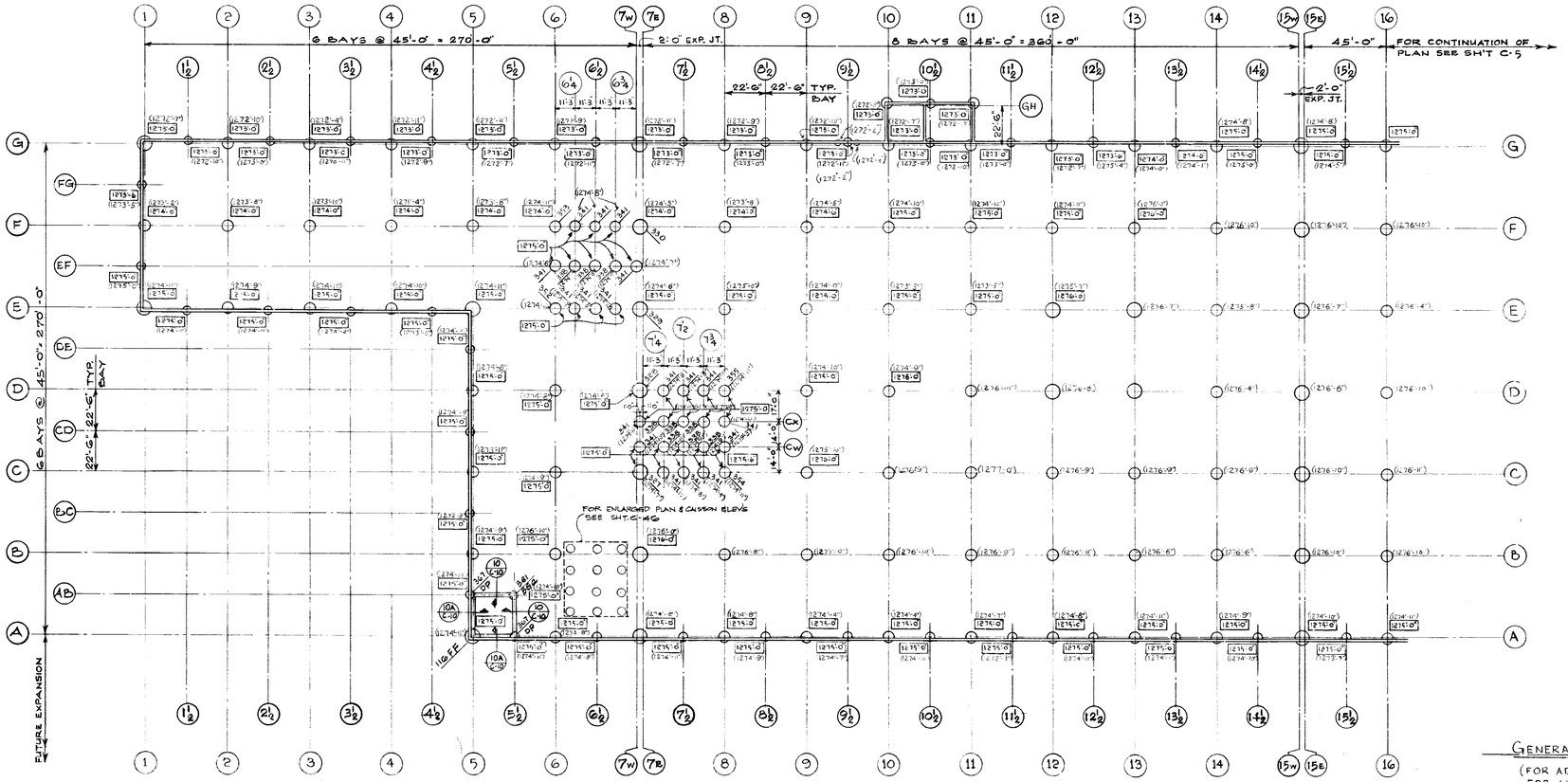
DRAWN BY W. ALGINI

JOB CAPT. E. KUCZYNSKI

C-1

SHEET NUMBER

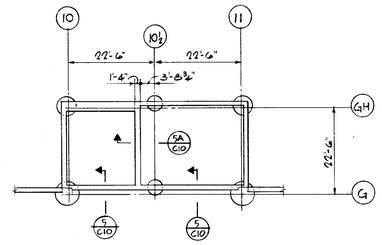
PROJECT NO. SHEET NO.



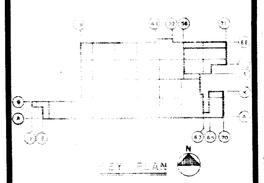
PARTIAL FOUNDATION PLAN

1/32" = 1'-0"

NOTE:
ALL BOTTOM OF FOOTING ELEVATIONS ARE 1271'-0 UNLESS OTHERWISE NOTED.



ENLARGED PLAN
PAINT MIX ROOM
SCALE: 1/16" = 1'-0"



GENERAL NOTES FOR PLENUM AREA & 1ST FL. SUPPORTED SLABS

(FOR ADDITIONAL GENERAL NOTES SEE SHEET C-1 AND GENERAL NOTES FOR SUPPORTED CONCRETE SLAB ON STEEL SEE SHEET S-1 ITEMS 1, 2, 3, 5, 6, 7, 8, 11, 12, 13, & 14.)

I. CONCRETE PROTECTION FOR REINFORCING IN PLENUM AREA AND 1ST FLOOR SUPPORTED SLAB TO BE AS SHOWN ON TYPICAL SECTIONS.
ITEMS NOT SHOWN TO BE AS FOLLOWS:
BEAM STEEL: TOP - 1½"
BOTTOM & SIDES 2"
COLUMNS & PIERS STEEL 2"
BEAMS STEEL, CONCRETE POURED AGAINST EARTH 3"
BEAM & SLAB STEEL POURED AGAINST VOID FORMS - 2"

II. INTERIOR WALLS IN PLENUM AREA TO BE POURED IN TWO LIFTS, SEE DRAWINGS, WITH SECOND LIFT TO BE NOT SOONER THAN 3 DAYS FOLLOWING 1ST POUR, SEE SPECIFICATIONS.

III. EXTERIOR WALLS IN PLENUM AREA TO BE POURED IN ONE LIFT.

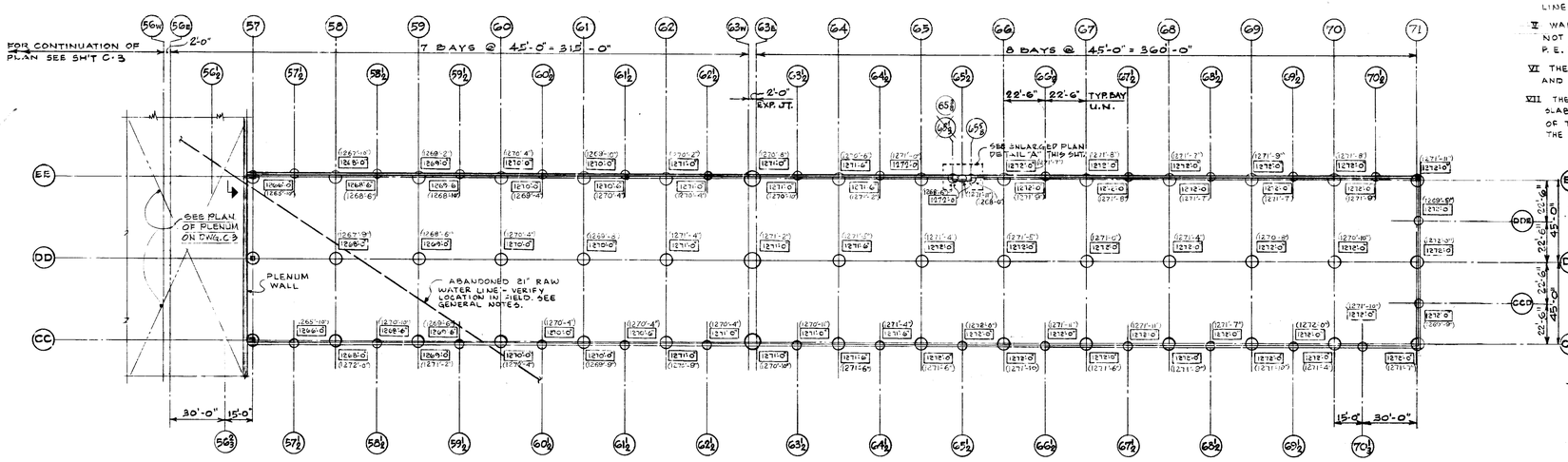
IV CONTROL JOINTS IN WALLS ARE IN GENERAL LOCATED AT SIDES OF PIER. WHERE NO PIER IS REQUIRED, THE JOINT SHALL BE AT CENTER LINE OF CAISSON UNLESS DETAILED OTHERWISE.

V WALLS AND DEEP POURS ARE TO BE MADE AT A VERTICAL RATE NOT TO EXCEED 3 FT. PER HOUR, UNLESS OTHERWISE APPROVED BY P.E. & C. STRUCTURAL DEPT.

VI THE SIZE & DEPTH OF CONSTRUCTION KEYS IN PLENUM BASE SLAB AND IN WALLS MUST BE ADHERED TO FOR STRUCTURAL REASONS.

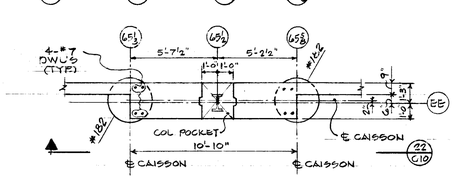
VII THE CONSTRUCTION JOINTS IN THE FIRST FLOOR FRAMING AND PLENUM SLAB FLOOR SHALL BE LOCATED AS NOT TO IMPAIR THE STRUCTURAL INTEGRITY OF THE FLOORS SYSTEM. THE CONSTRUCTION JOINTS SHALL BE LOCATED AT THE MIDDLE OF THE SPAN.

VIII. AT ALL COLUMNS AND PIERS CALLED FOR IN THE SCHEDULE AROUND THE THE TOTAL PERIMITER OF THE PLENUM AREA INCLUDING THE ELEVATOR AND THE STAIRS, THE PLENUM CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE VERTICAL REINFORCING CALLED FOR IN THE SCHEDULE, ALL THE DOWELS TO AND FROM THE WALLS AND ALL THE VERTICAL WALL REINFORCING AS SHOWN ON TYPICAL WALL SECTIONS, (WALLS ADJOINING THE PIERS OR COLUMNS.) WHERE THE PIER SIZE CALLED FOR IN THE SCHEDULE IS LESS THAN THE THICKNESS OF THE ADJOING WALLS (THE EXTERIOR WALLS SLOPES) THE PHYSICAL SIZE OF THE PIER SHALL BE THE SAME AS ADJOINING WALL.
THE PIER OR COLUMN REINFORCING CALLED FOR IN THE SCHEDULE SHALL BE PLACED ACCORDING TO PIER SIZE CALLED IN THE SCHEDULE. THE DOWELS AND THE VERTICAL REINFORCING IN TYPICAL WALLS WHICH IS ALSO TO BE PROVIDED IN COLUMNS AND PIERS SHALL BE PLACED SAME AS IN TYPICAL WALLS.



PARTIAL FOUNDATION PLAN

1/32" = 1'-0"



ENLARGED PLAN - DETAIL "A"
SCALE: 1/2" = 1'-0"

NOTE:
CONCRETE PLENUM CONTRACTOR AND FIRST FLOOR CONCRETE CONTRACTOR TO BID ON THE DRAWINGS AND SPECIFICATIONS AS SHOWN AND NOTED. IF SOME DETAILS, SECTIONS, NOTES AND SPECIFICATION ARE NOT CLEAR OR REQUIRE CLARIFICATION THE CONTRACTORS SHALL CLARIFY ALL THOSE ITEMS WITH P.E.&C. STRUCTURAL DEPARTMENT PRIOR TO SUBMITTAL OF BIDS

NOTE:
ELEVATIONS SHOWN THUS ( ) INDICATE BOTTOM OF PIER ELEVATIONS AS BUILT.

DATE	ISSUED FOR	APPROVAL	APPROVAL
7-25-77	MECH + ELEC SPEC		
3-25-77	PRIMB MECH & ELECT REF.		
5-11-77	CAISSON BIDS		
4-18-77	FIRE PROT. BID REF.		
4-21-77	CONCRETE & PLUMB BIDS		
4-28-77	ELEV. & STAIR CONCRETE & BIDS		
5-25-77	PAINT SHOP SYSTEM REF		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
130	1-6-78	L.S.		
85	5-9-77	E.K.		
44	7-15-77	A.C.		
60	7-18-77	A.C.		
61	7-7-77	E.K.		
34	5-25-77	E.K.		
P.C.26	5-20-77	E.K.		
P.C.16	5-11-77	E.K.		
P.C.17	5/10/77	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

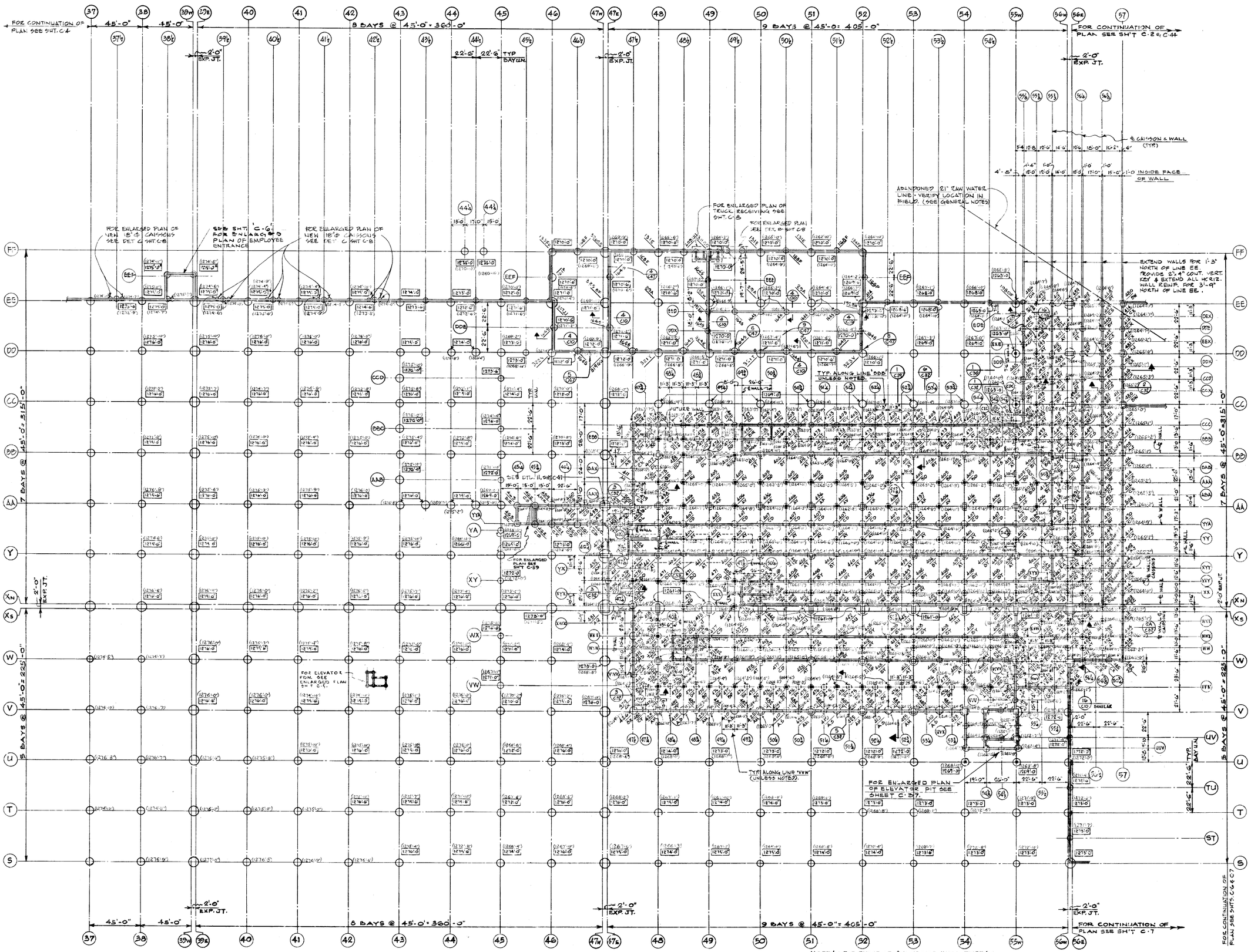
FOUNDATION PLAN
AREA No. 1 &
AREA No. 4

SHEET TITLE

OWNER'S IDENTIFICATION
4500
P.E.&C. PROJECT NUMBER
DATE 4-28-77
DRAWN BY NASY BROOKY
JOB CAPT. E. KUCZYNSKI
C-2
SHEET NUMBER

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

PROJECT NO. SHEET NO.



PARTIAL FOUNDATION PLAN

1/32" = 1'-0"

NOTE: FOR EXTERIOR & INTERIOR WALL TYPES IN PLENUM AREA, SEE SHT. C-2G IN ADDITION TO SECT. MARKS SHOWN ON THIS SHEET.

MARKS SHOWN THUS 400/A IN PLENUM AREA INDICATES THAT THE NUMBER 400 IS THE FOOTING NUMBER, AND THE LETTER 'A' INDICATES THE FOOTING TYPE (DETAIL). ALSO SEE FOOTING SCHEDULE.

NOTE:
ALL BOTTOM OF FOOTING ELEVATIONS ARE 1277'-0 UNLESS OTHERWISE NOTED.
ALL BOTTOM OF FOOTING ELEVATIONS IN PLENUM AREA 1265'-0 UNLESS OTHERWISE NOTED.
ELEVATIONS SHOWN THUS ( ) INDICATE BOTTOM OF PIER ELEVATIONS AS BUILT.

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-20-77	NEW-UNCL REFER		
3-23-77	PLANS MEH & E	ELECT REF.	
3-6-77	CAISSON BIDS		
4-15-77	FIRE PROT. BID REF.		
4-28-77	BIDS REF.		
4-29-77	BIDS REF.		
6-25-77	PAINT BUILDING	SYSTEM REF	

NO.	DATE	BY	APPROVAL	APPROVAL
142	6/19/78	D.G.	AS BUILT	
130	1-6-78	L.S.		
85	5-4-77	E.K.		
70	8-1-77	W.L.		
60	7-18-77	A.C.		
44	7-15-77	A.C.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
38	6/17/77	A.C.		
24	5/25/77	E.K.		
RC.28	5/20/77	E.K.		
RC.23	5/16/77	E.K.		
RC.16	5/11/77	E.K.		
RC.17	5/10/77	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

FOUNDATION PLAN
AREA No. 2

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 4-28-77

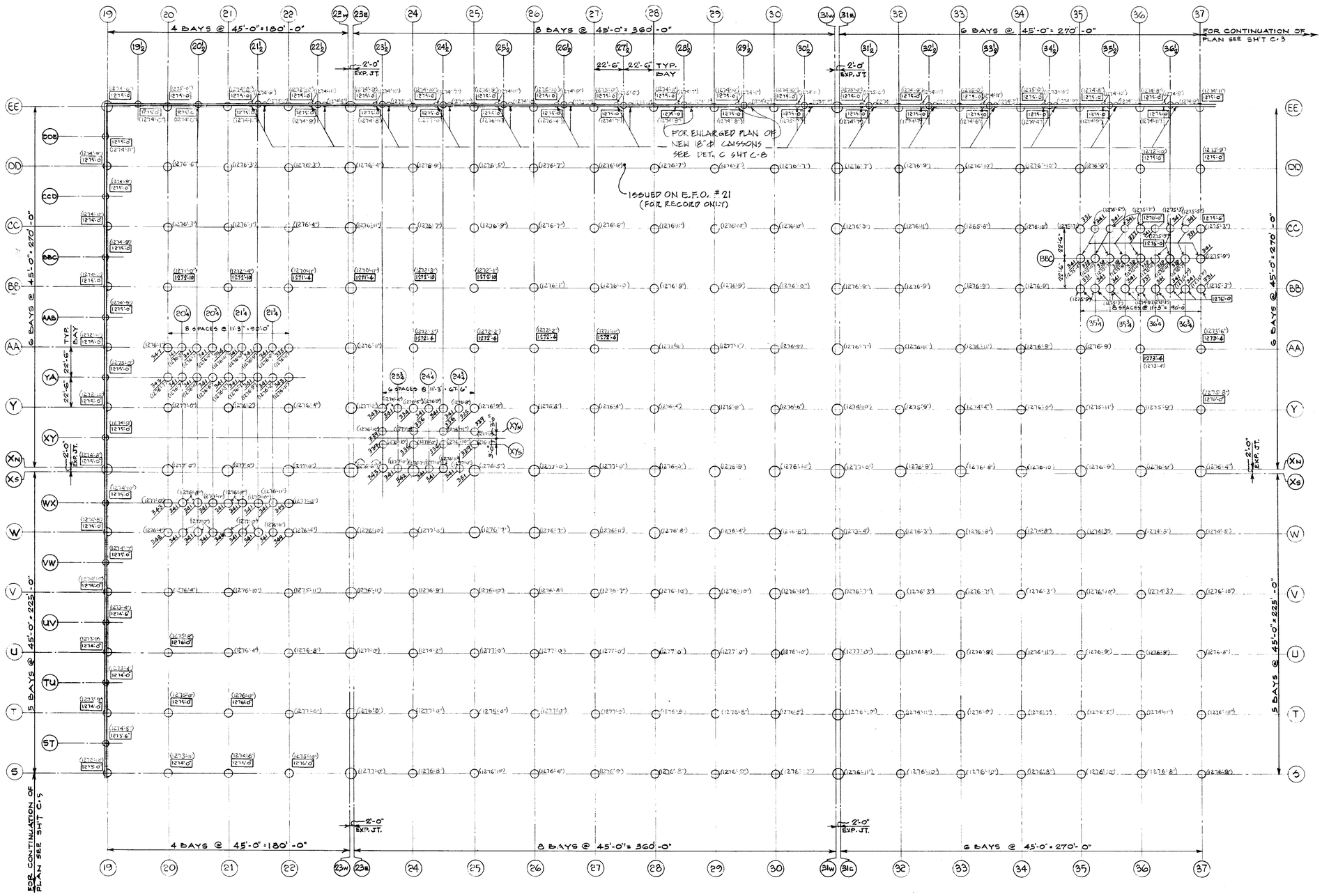
DRAWN BY ROBERT ALGINI

JOB CAPT. E. KUCZYNSKI
A. CHU

C-3
SHEET NUMBER

ARGO 118 REV. 12-69 K&E 17 0133 2-74 1750+

PROJECT NO. SHEET NO.

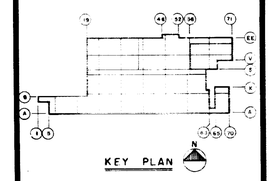


PARTIAL FOUNDATION PLAN

1/32" = 1'-0"

NOTE:
ALL BOTTOM OF FOOTING ELEVATIONS ARE 1277'-0" UNLESS OTHERWISE NOTED.
ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATION AS BUILT.

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. U.G. REQ		
3-28-77	PR. MG MECH & ELECT	R.E.F.	
3-21-77	CAISSON BID	R.J. Meade	J. Eckler
4-8-77	FIRE PROT. BID	R.E.F.	
4-28-77	FIRST FLOOR CONSTR. BID	R.J. Meade	W. Allen



NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
130	1-6-78	L.S.		
60	7-18-77	A.C.		
61	7-7-77	B.K.		
24	5/25/77	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 & 486 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN
ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGEMENT

GM ASSEMBLY DIVISION
OKLAHOMA CITY, OKLAHOMA

PROJECT TITLE

FOUNDATION PLAN
AREA No. 3

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P.E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY BROSKY NAGY

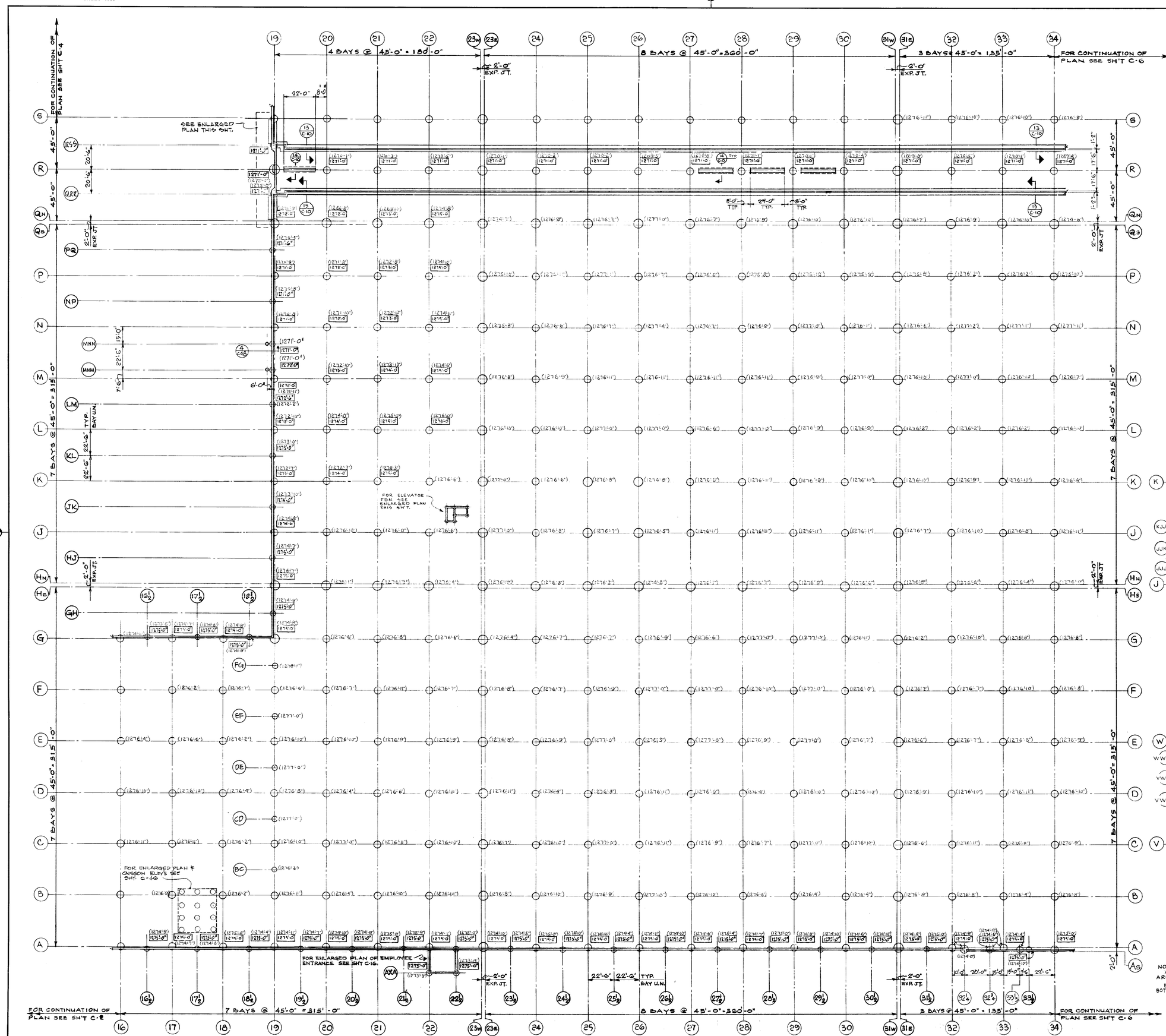
JOB CAPT. E. KUCZYNSKI

C-4
SHEET NUMBER

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

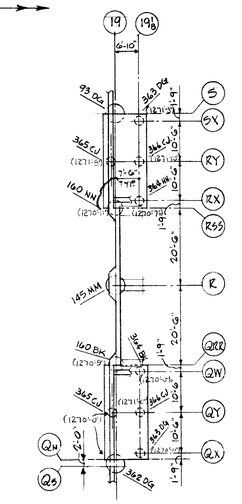
MAR 3 1978

PROJECT NO. SHEET NO.

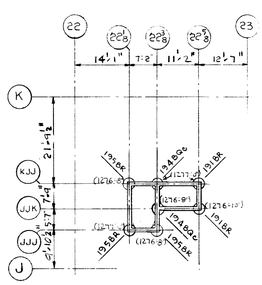


PARTIAL FOUNDATION PLAN

1/32" = 1'-0"

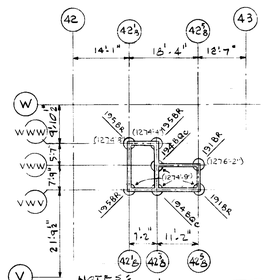


PARTIAL ENLARGED PLAN ALONG COL. LINE "19"



SEE NOTES 1 & 2, ELEVATOR #2

ENLARGED PLAN



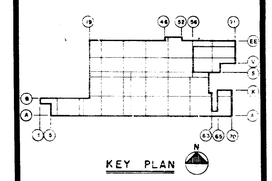
NOTES:
1. BOTT. OF FTG ELEV'S ARE [127'-0"]
2. ALSO SEE SUPPORTED SLAB PLANS ON SHT 'C-16'

ELEVATOR #2

ENLARGED PLAN

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

NOTE:
ALL BOTTOM OF FOOTING ELEVATIONS ARE [127'-0"] UNLESS OTHERWISE NOTED.
ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATIONS AS BUILT.



KEY PLAN

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. & ELEC. REF.		
3-23-77	REIMS MECH & ELECT REF.		
3-21-77	CAISSON & IDO		
4-15-77	FIRE PROT. BID		
4-28-77	BIDS & FOR CONSTRUCTION BIDS		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
ER 35	4-27-78	RM		
130	1-6-78	L.S.		
85	9-9-77	E.K.		
70	8-1-77	W.A.		
57	7-27-77	D.W.		
50	7-21-77	A.C.		
61	7-7-77	E.K.		
38	6/7/77	A.C.		
24	5-25-77	E.K.		
RC 23	5-16-77	E.K.		
RC 15	5-11-77	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

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

MANUFACTURE • ENGINEERING • REAL ESTATE • CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT

OKLAHOMA INDUSTRIES AUTHORITY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOUNDATION PLAN AREA No. 5

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P.E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY BROOKY

JOB CAPT. E. KUCZYNSKI & CHU

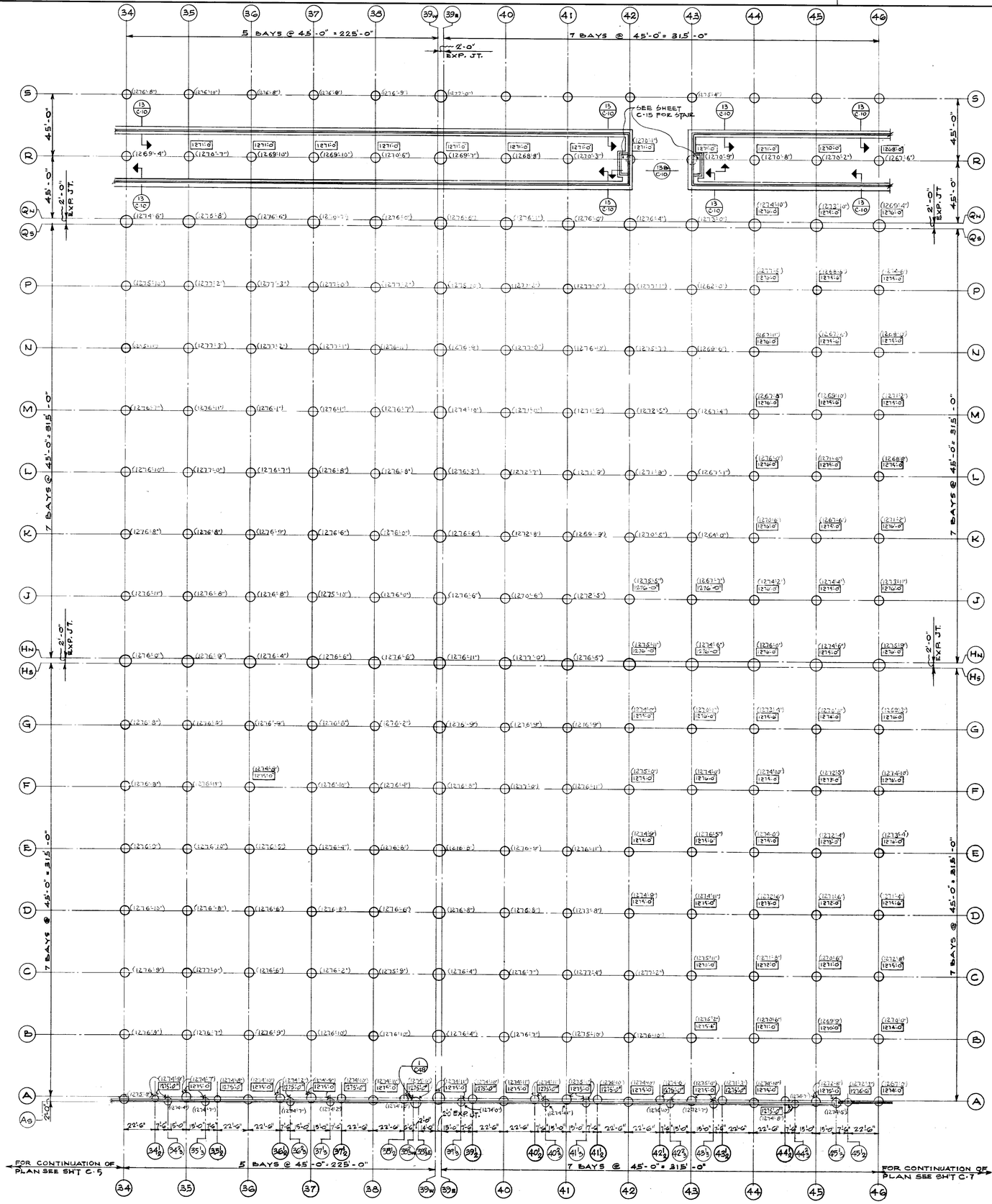
C-5

SHEET NUMBER

ARGO 116 REV. 12-69 K&E 17 0133 2-74 1750+

MAR 3 1979

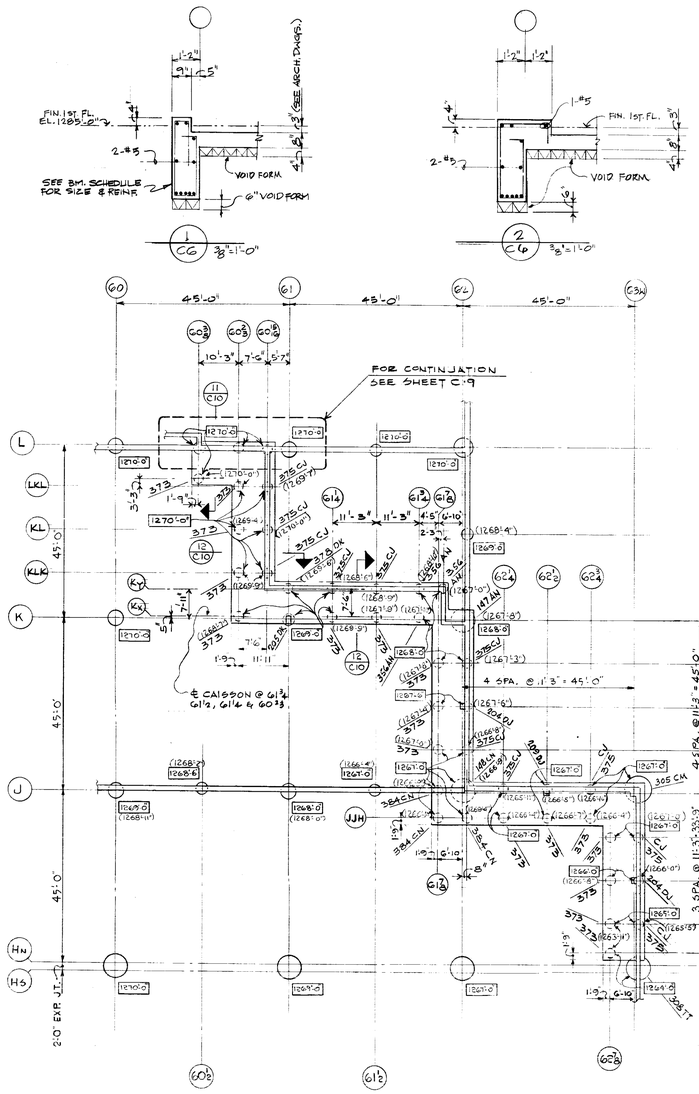
PROJECT NO. SHEET NO.



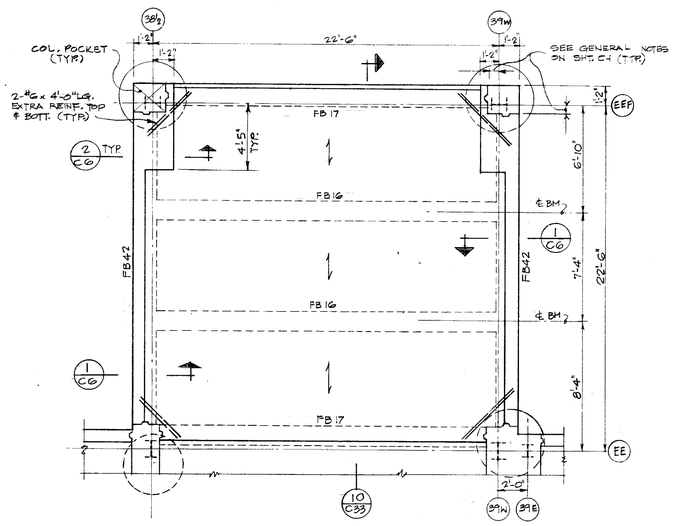
PARTIAL FOUNDATION PLAN

1/32" = 1'-0"

NOTE:
ALL BOTTOM OF FOOTING ELEVATIONS ARE 1271'-0" UNLESS OTHERWISE NOTED.
ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATIONS AS BUILT.



PARTIAL ENLARGED FOUNDATION PLAN
(SEE SHEET C-7)
SCALE: 1/16" = 1'-0"



EMPLOYEE ENTRANCE FRAMING PLAN
SCALE: 1/4" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. w. Q. 28-30		
3-23-77	PRIME MECH.	ELECT REF	
3-21-77	CAISSON BIDS	R. J. Hearn	J. Erickson
4-18-77	FIRE PROT. BID	E&F.	
4-28-77	FIRST ISSUE CONSTRUCTION BID	R. J. Hearn	H. J. Erickson

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-75	D.G.	AS BUILT	
150	1-6-75	L.S.	E.K.	
EKS 27	10-17-77	E.K.		
70	8-1-77	W.A.		
57	7-27-77	D.L.W.		
61	7-7-77	B.K.		
39	6-16-77	E.K.		
24	5-25-77	E.K.		
P.C. 23	5-16-77	E.K.		
P.C. 18	5-11-77	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
465 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN
ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGEMENT

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

PROJECT TITLE

FOUNDATION PLAN
AREA No. 6

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P.E. & C. PROJECT NUMBER

DATE 4-28-77

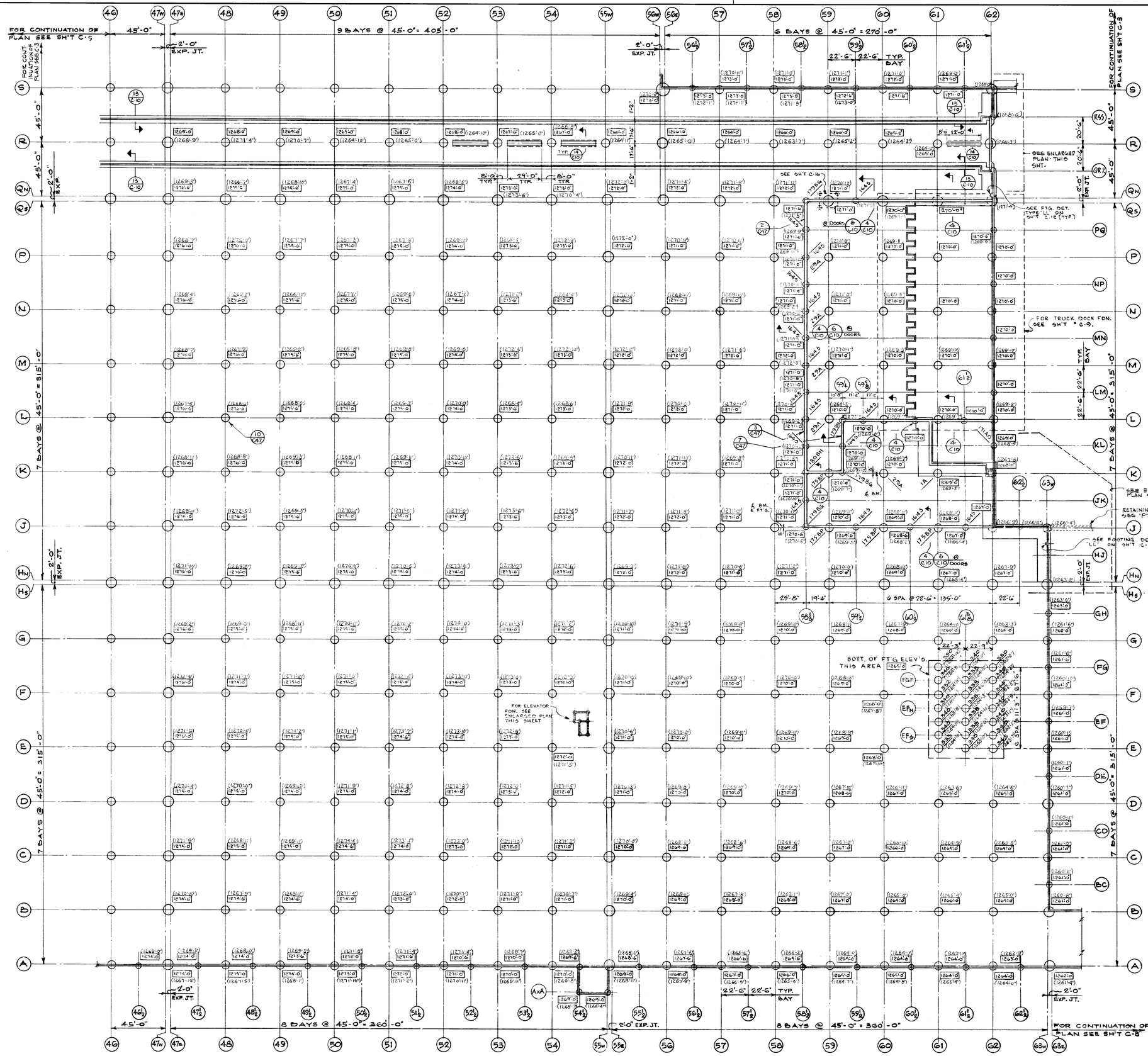
DRAWN BY NAGY

JOB CAPT. E. KUCZYNSKI
A. CHU

C-6
SHEET NUMBER

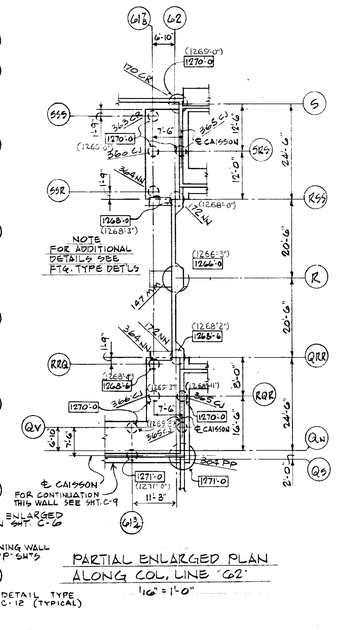
ARGO 118 REV. 12-69 KBE 17 0153 2-74 1750+

PROJECT NO. SHEET NO.



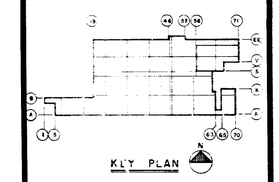
FOUNDATION PLAN

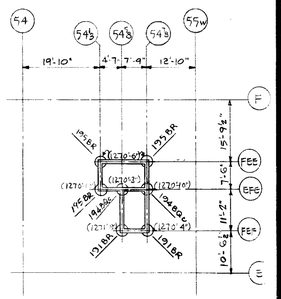
1/32" = 1'-0"



PARTIAL ENLARGED PLAN ALONG COL. LINE '62'

1/16" = 1'-0"





NOTE: BOTT. OF FTG ELEV'S 1271'-6" (U.N.)

ALSO SEE SUPPORTED SLAB PLANS ON SHT. C-16.

ENLARGED PLAN OF ELEVATOR #3

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

NOTE:
ALL BOTTOM OF FOOTING ELEVATIONS ARE INDICATED THUS: 12000

ELEVATIONS SHOWN THUS ( ) INDICATE BOTTOM OF PIER ELEVATIONS AS BUILT.

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. ELEC. & PER.		
3-23-77	PRIME MECH 3	ELECT REF	
3-21-77	CAISSON BIDS	R. J. Meech	J. Gordon
4-18-77	FIRE PROT BID	REF.	
4-28-77	FIRST FLOOR CONCRETE BID 3	R. J. Meech	R. J. Nelson

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-13-78	D.G.	AS BUILT	
B0315	4-27-78	RM		
130	1-6-78	L.S.		
50	7-21-77	A.C.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
38	6/1/77	A.C.		
24	5/23/77	E.K.		
P.C. 23	5-16-77	E.K.		
P.C. 18	5-11-77	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

PROJECT MANAGEMENT • DESIGN • 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

FOUNDATION PLAN AREA No. 7

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE: 4-28-77

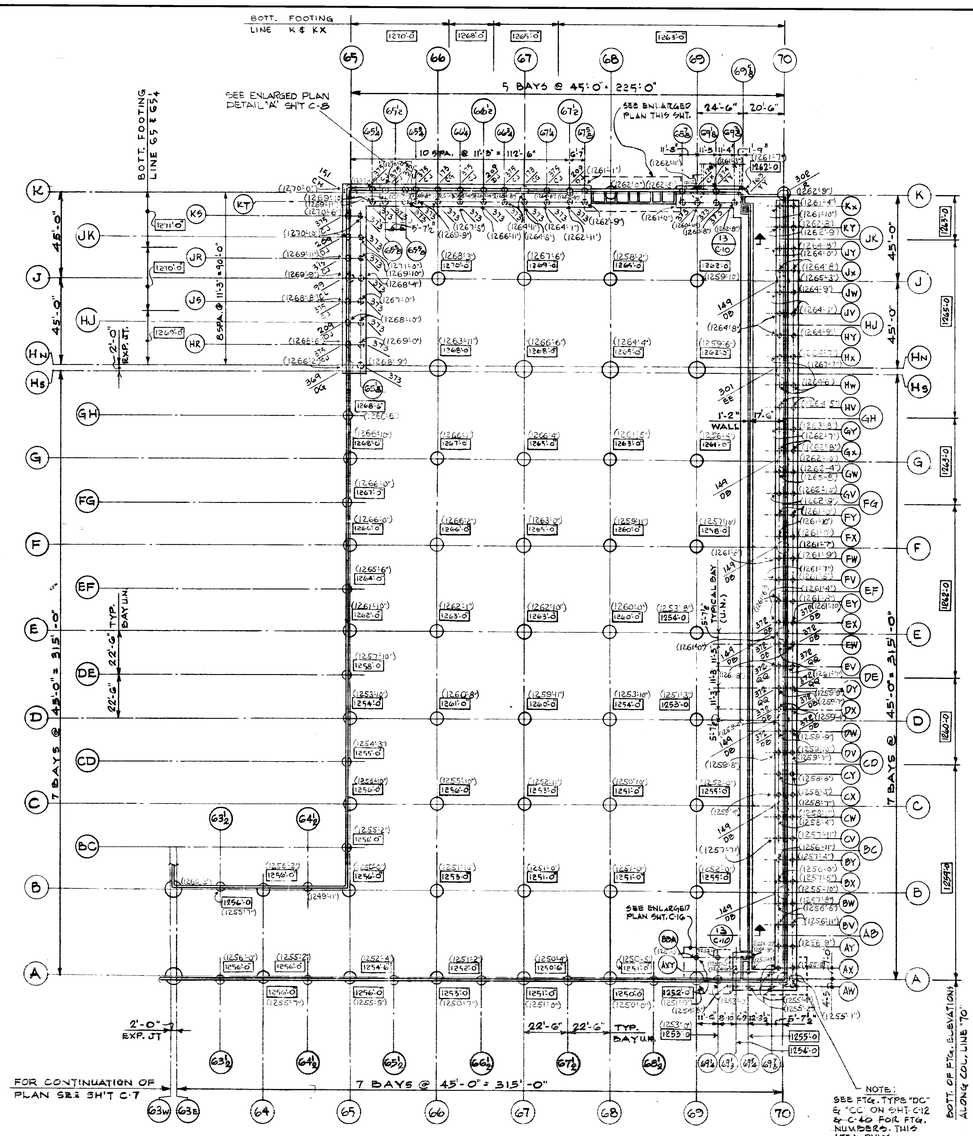
DRAWN BY: BROSKY NAGY

JOB CAPT.: KUCZYNSKI A. CHU

SHEET NUMBER: C-7

ARGO 118 REV. 12-69 K&E 17 0153 2-74 1750+

PROJECT NO. SHEET NO.



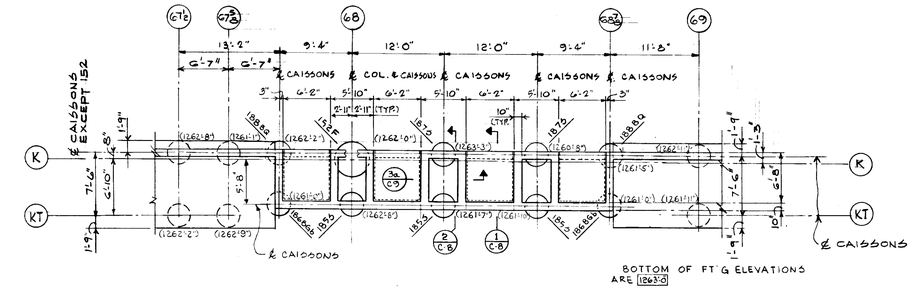
NOTE: SEE PLAN ON SHT. C-34 FOR ALL PERIMETER GRADE BMS & WALLS

ALL BOTTOM OF FTG. ELEVATIONS ARE INDICATED THUS: 1200-0

ALL MARKS SHOWN THUS 38/DC ON PLAN INDICATE THAT THE NO 38 IS THE FOOTING NUMBER AND THE LETTERS "DC" INDICATE THE FOOTING TYPE DETAIL. ALSO SEE FOOTING SCHEDULE.

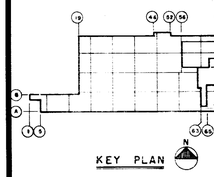
PARTIAL FOUNDATION PLAN

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

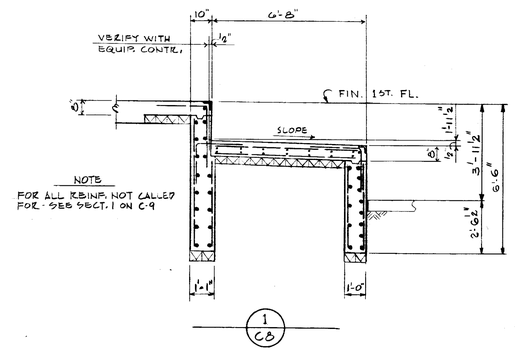


BULK STORAGE TRUCK RECEIVING ENLARGED PLAN

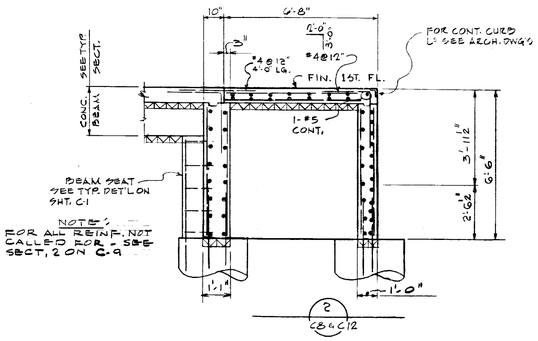
SCALE: 1/8" = 1'-0"



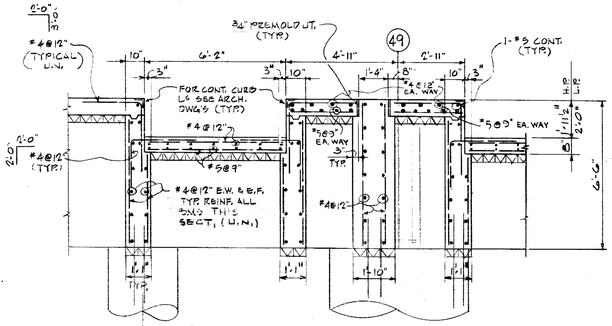
KEY PLAN

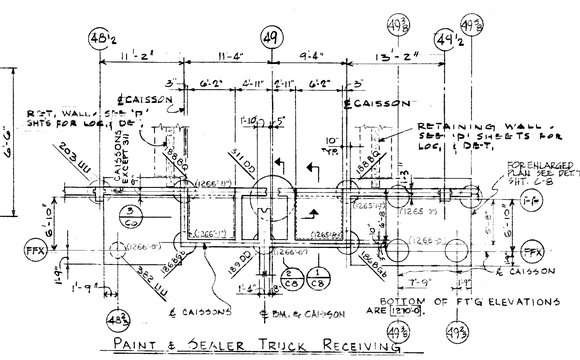


1 / C8



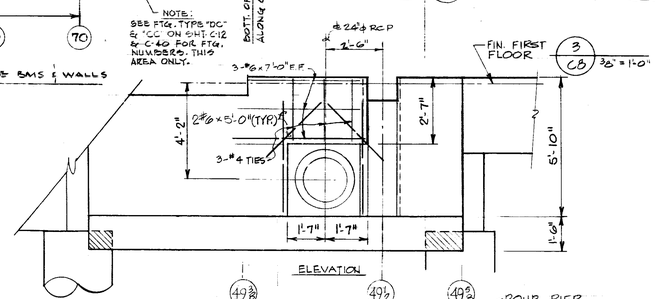
2 / C8 & C12

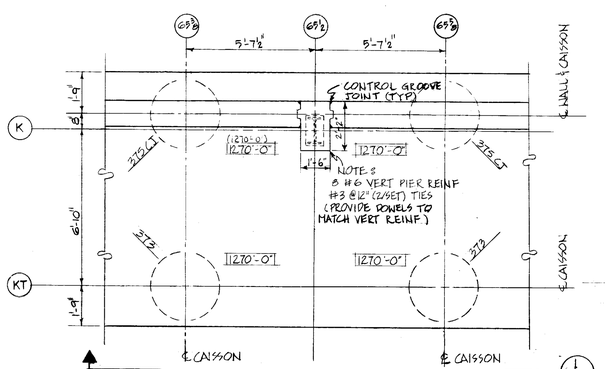




PAINT & SEALER TRUCK RECEIVING ENLARGED PLAN

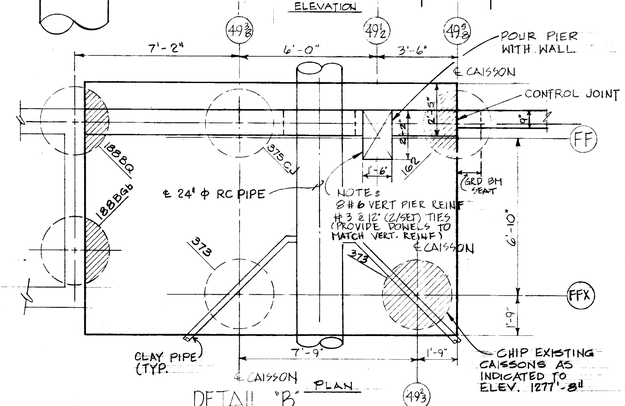
SCALE: 1/8" = 1'-0"





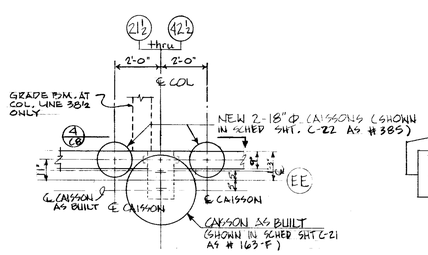
DETAIL "A"

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



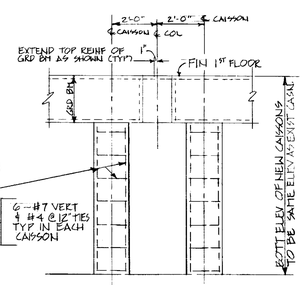
DETAIL "B"

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



DETAIL "C"

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



4 / C8 3/8" = 1'-0"

NOTE: ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATIONS AS BUILT.

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-26-77	MECH. U.G. REFER		
3-23-77	PRIME MECH 1	SLECT REF	
3-21-77	CAISSON BIDS	R. H. [illegible]	[illegible]
4-18-77	PIRS PERT. BID	R.E.F.	
4-28-77	FIRST FLOOR CONCRETE BIDS	R. [illegible]	[illegible]
5-27-77	PAINTING & FINISHING	R.E.F.	

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
130	1-6-78	L.S.	[illegible]	[illegible]
5-P.S. 34	9-19-77	J.E.	[illegible]	[illegible]
70	8-1-77	W.A.	[illegible]	[illegible]
100	1-18-11	A.C.	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]
31	6-16-77	E.K.	[illegible]	[illegible]
24	5-25-77	E.K.	[illegible]	[illegible]
PC 23	5-16-77	E.K.	[illegible]	[illegible]
PC 18	5-11-77	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

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOUNDATION PLAN AREA No. 8

SHEET TITLE

OWNER'S IDENTIFICATION

DATE 4-28-77

DRAWN BY PEDDY NASY

JOB CAPT. E. KUCZYNSKI

4500

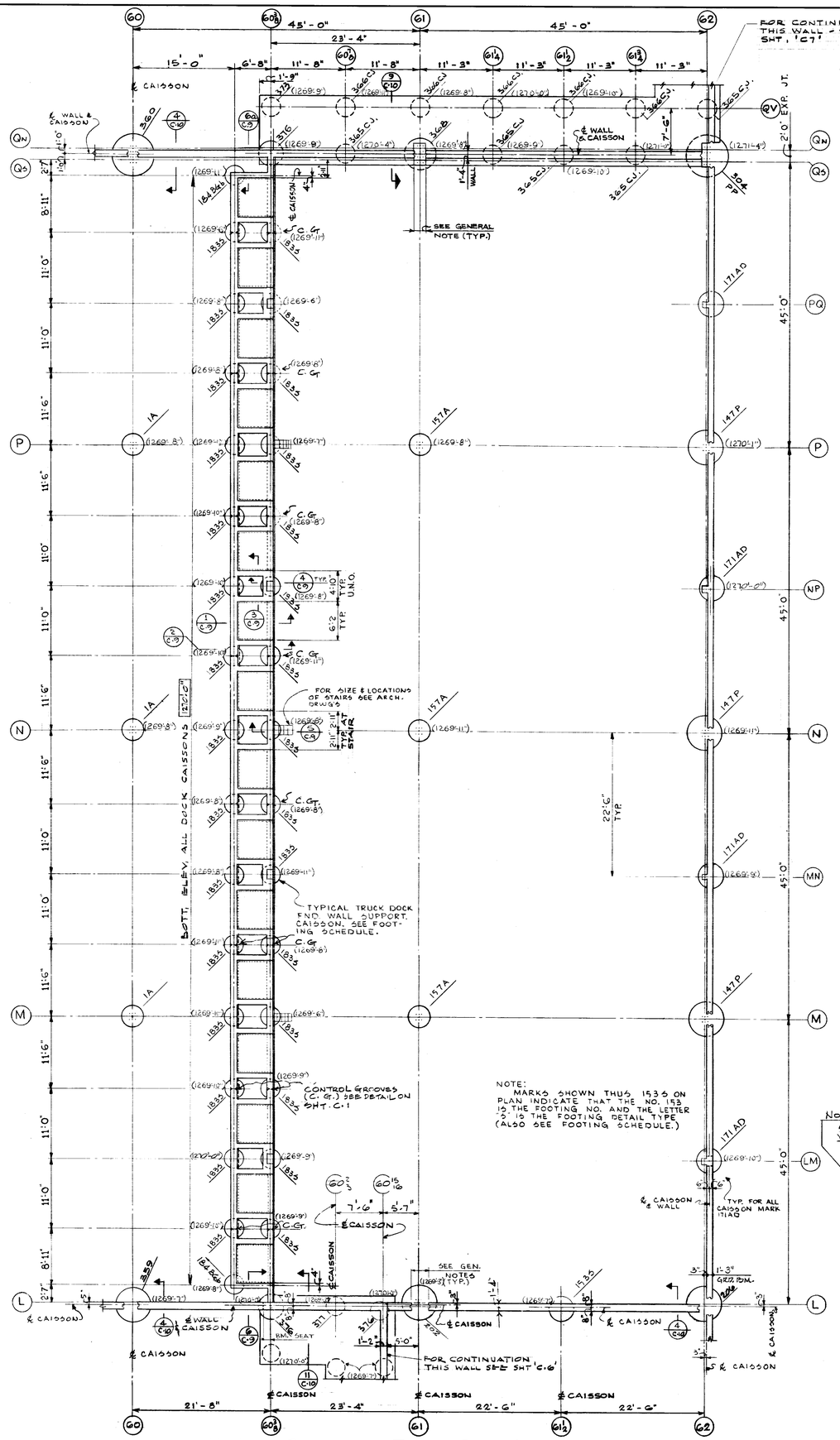
P. E. & C. PROJECT NUMBER

C-8

SHEET NUMBER

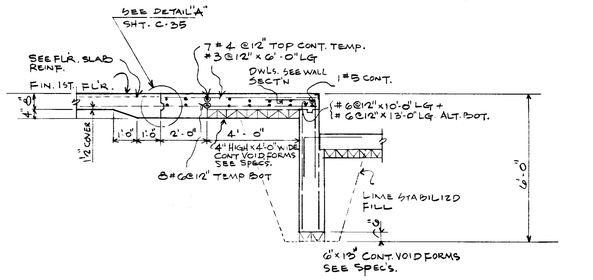
ARGO 118 REV. 12-69 K&E 17 0553 2-74 1790M

PROJECT NO. SHEET NO.

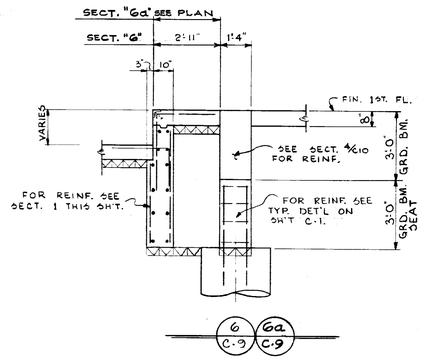


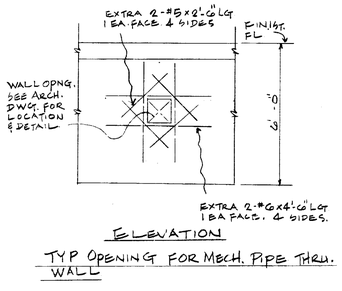
ENLARGED TRUCK DOCK AREA

1/8" = 1'-0"



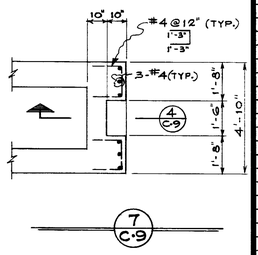
TYP. 1ST. FLR SLAB TO FND. WALL DETAIL

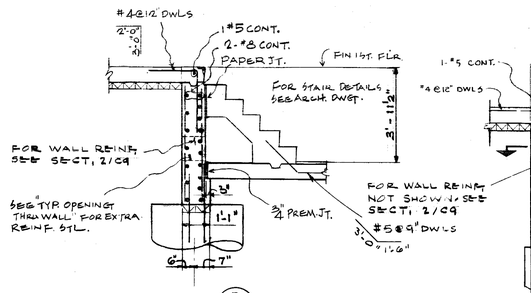


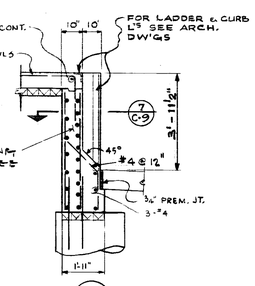


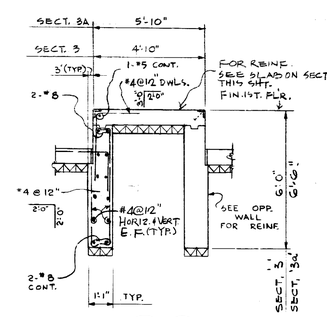
ELEVATION

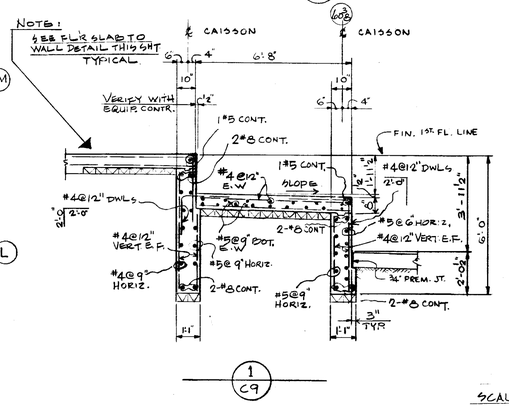
TYP OPENING FOR MECH. PIPE THRU. WALL

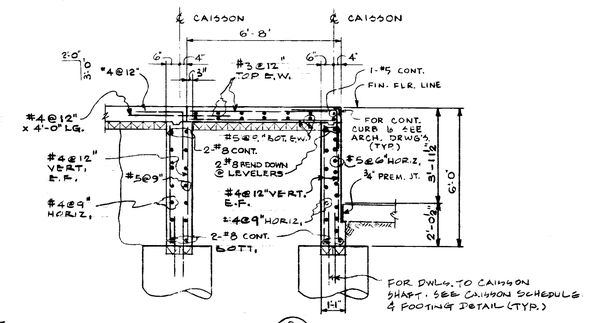












NOTE

SCALE FOR ALL DETAILS THIS SHT.: 3/8" = 1'-0"

NOTE: ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATION AS BUILT.

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. U.G. & FDN.		
3-23-77	PRIME MECH'S	ELECT REF	
3-21-77	CAISSON BIDS		
4-28-77	FIRST FLOOR CONCRETE BIDS		
5-27-77	PAINTING & FINISH.	REF.	

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
130	1-6-78	LS		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
RC-23	5-16-77	E.K.		
P.C. 12	5/11/77	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 — 486 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

ENLARGED FOUNDATION PLAN · TRUCK RECEIVING

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE: 4-28-77

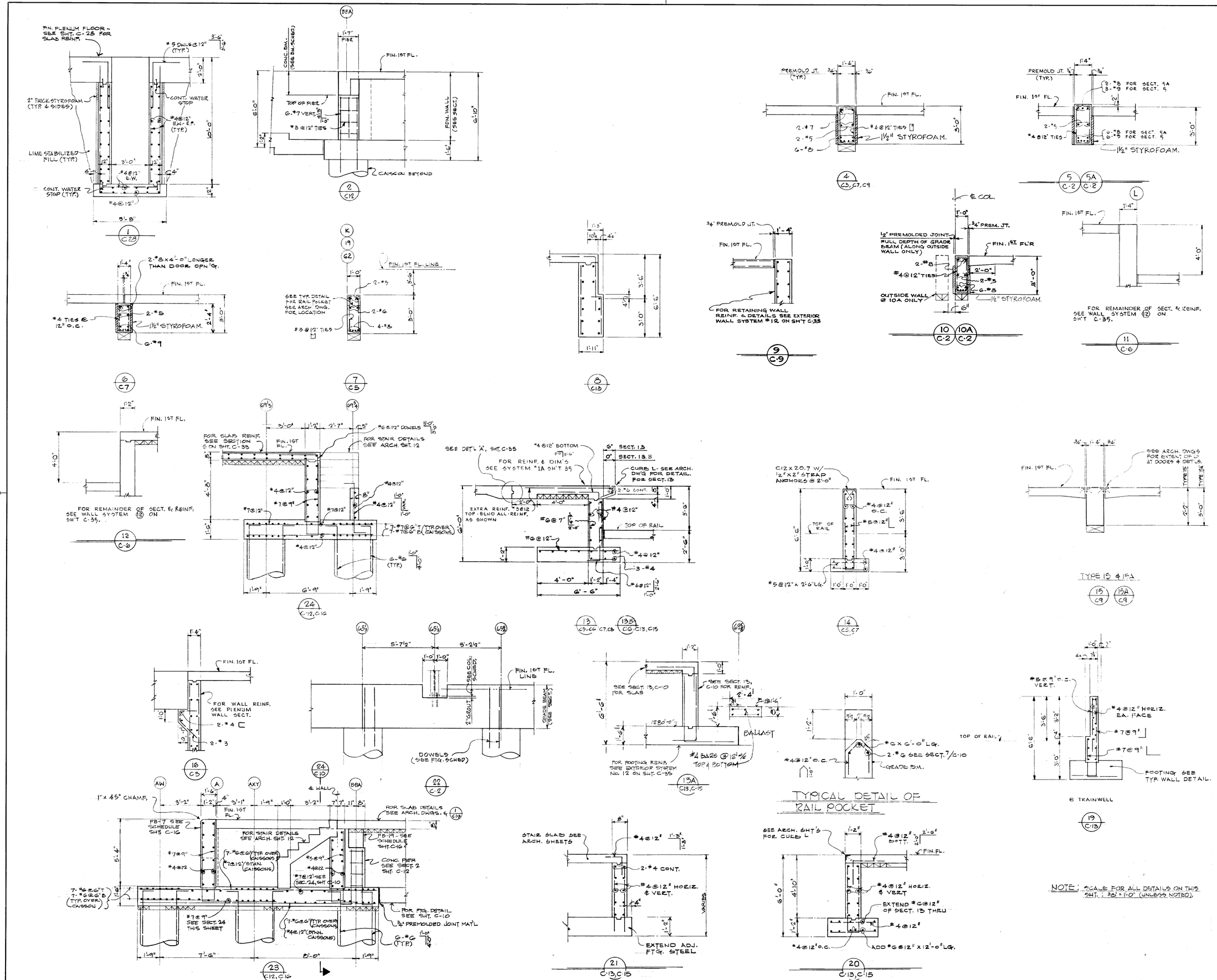
DRAWN BY: BROSKY

JOB CAPT.: E. KUCZYNSKI

SHEET NUMBER: C·9

ARGO 118 REV. 10-69 KGE 17 0133 2-74 1790+

PROJECT NO. SHEET NO.



DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. U.G. REF'S		
3-23-77	PRIME MECH & ELECT REF		
3-31-77	CAISSON & DOORS		
4-18-77	FIRE PROT. PLN REF.		
4-28-77	ELEC. & MECH. UNDERGRD. DWG.		
5-27-77	PAINTING & FINISHING REF		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
EP235	4-27-78	E.M.		
70	8-1-77	W.A.		
50	7-21-77	A.C.		
60	7-18-77	A.C.		
61	7-7-77	E.K.		
24	5/23/77	E.K.		
P.C. 23	5/16/77	E.K.		
P.C. 18	5/11/77	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

SECTIONS

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P.E. & C. PROJECT NUMBER

DATE 4-28-77

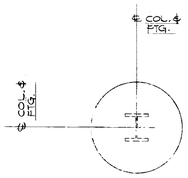
DRAWN BY W. ALCINI

JOB CAPT. E. KUCZYNSKI

C-10
SHEET NUMBER

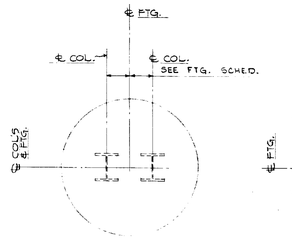
K&E 17 0133 9-73 5079-

PROJECT NO. SHEET NO.



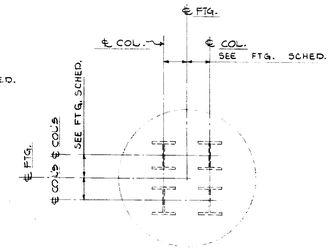
PLAN

TYPE "A"



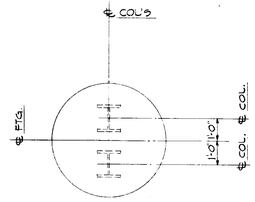
PLAN

TYPE "B"



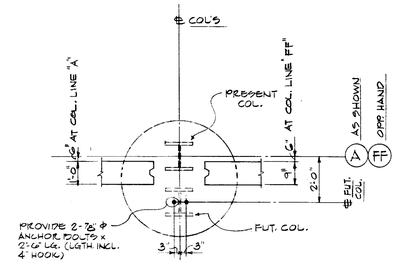
PLAN

TYPE "D"



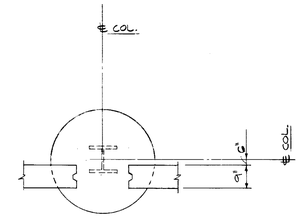
PLAN

TYPE "C"



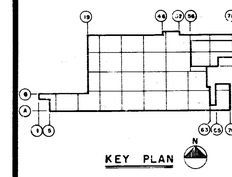
PLAN

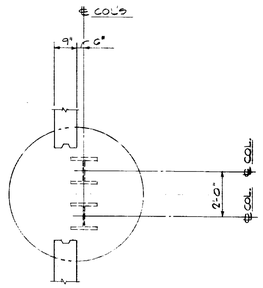
TYPE "E"



PLAN

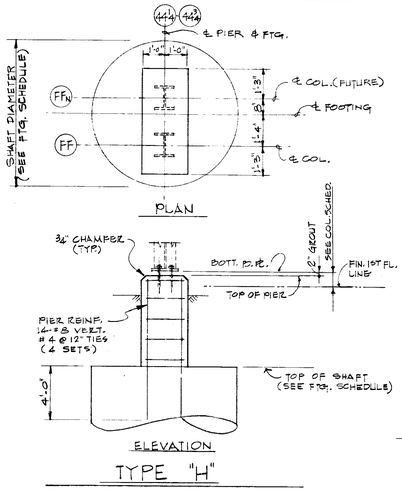
TYPE "F"



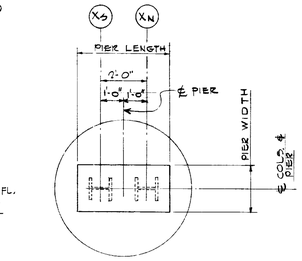


PLAN

TYPE "G"

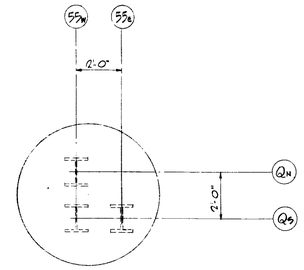


TYPE "H"



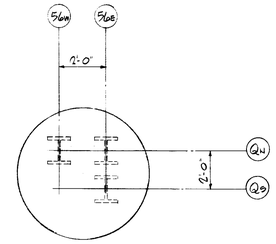
PLAN

TYPE "J"



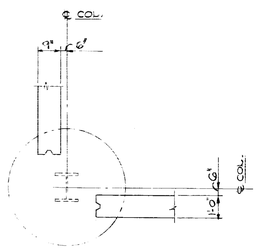
PLAN

TYPE "K"



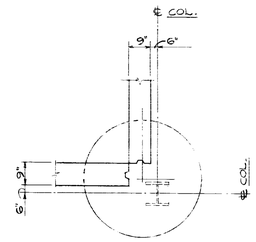
PLAN

TYPE "L"



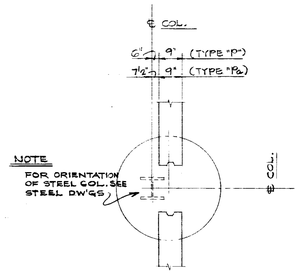
PLAN

TYPE "M"



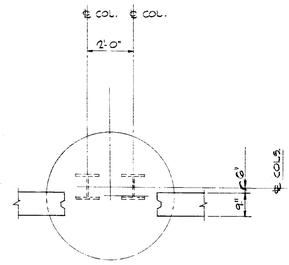
PLAN

TYPE "N"



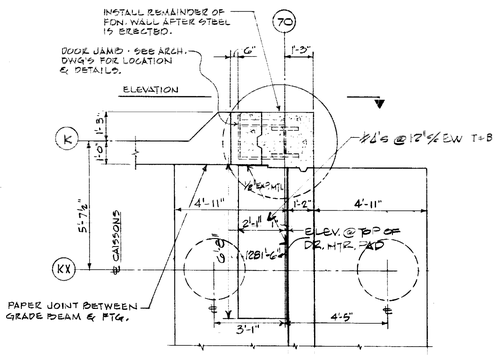
PLAN

TYPE "P & Pa"

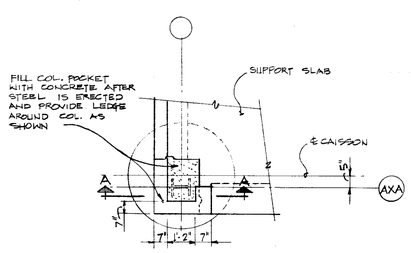


PLAN

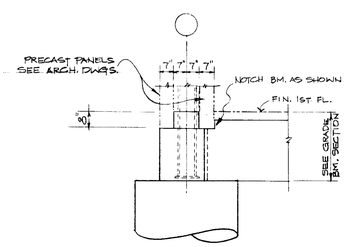
TYPE "Q"



PLAN

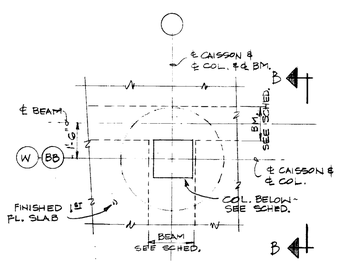


PLAN

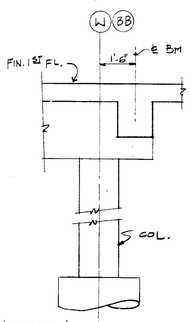


SECT. A-A

TYPICAL CORNER FTG. DETAIL AT EMPLOYEE ENTRANCE
(ALONG COLUMN AXA ONLY)

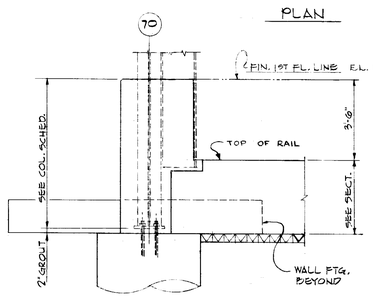


PLAN



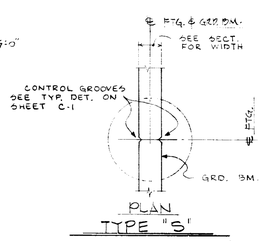
SECT. B-B

TYPE "BDA"



ELEVATION

TYPE "R"



PLAN

TYPE "S"

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH, ELEC, REF.		
3-23-77	PRIME MECH'S	ELECT REF	
3-21-77	CAISSON BIDS		
4-11-77	MBT, ROOF DECK, WL TC SIDING, PRECAST PANELS REF.		
4-18-77	FIRE PROT. BID	REF.	
4-28-77	REF. TO SOIL CONCRETE BID		

KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
FCO 215	4-27-78	2M		
85	9-9-77	E.K.		
70	8-1-77	W.A.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
24	5/25/77	E.K.		
RC.17	5/10/77	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 & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P.E.&C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY W. ALGINI

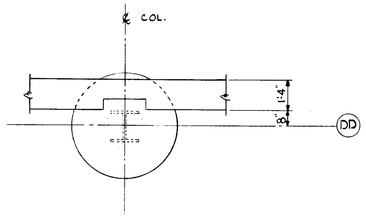
JOB CAPT. E. KUCZYNSKI

C-11

SHEET NUMBER

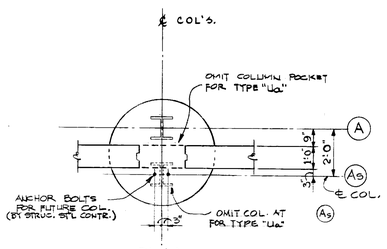
K&E 17 0153 9-73 5079+

PROJECT NO. SHEET NO.



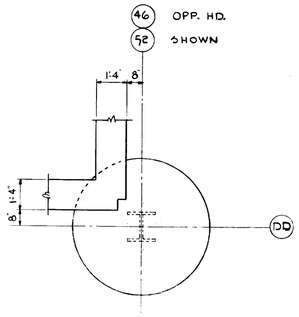
PLAN

TYPE "T"



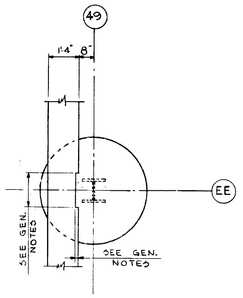
PLAN

TYPE "U" & "Ua"



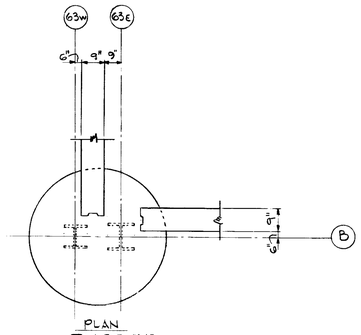
PLAN

TYPE "V"



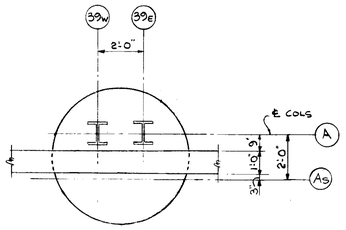
PLAN

TYPE "W"



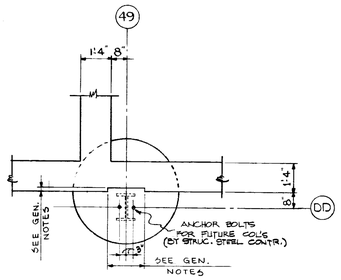
PLAN

TYPE "X"



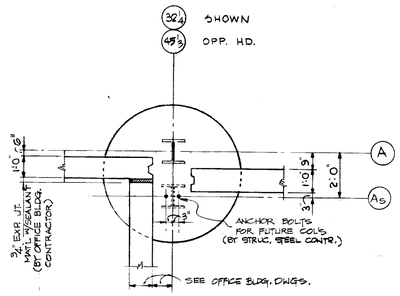
PLAN

TYPE "Y"



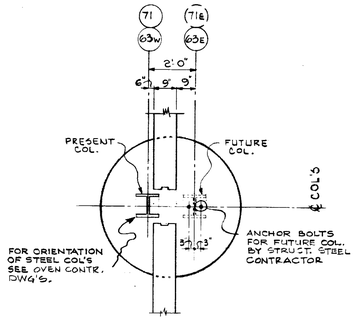
PLAN

TYPE "Z"



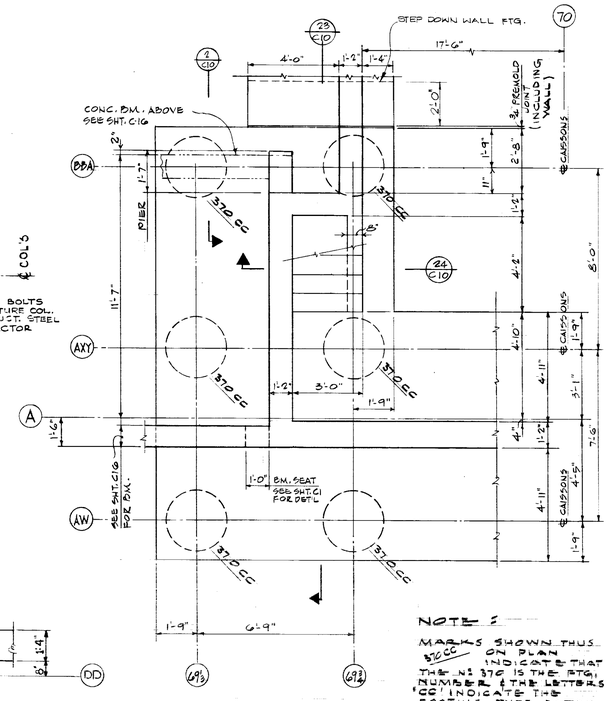
PLAN

TYPE "AA"



PLAN

TYPE "BB"

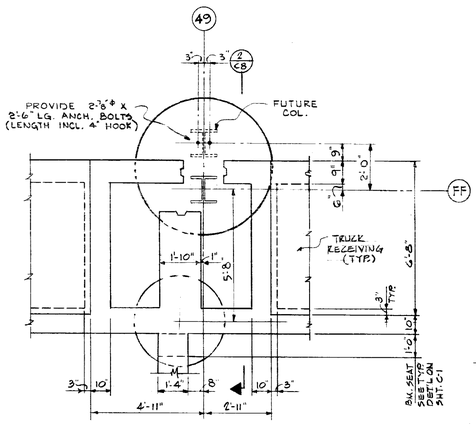


PLAN

TYPE "CC"

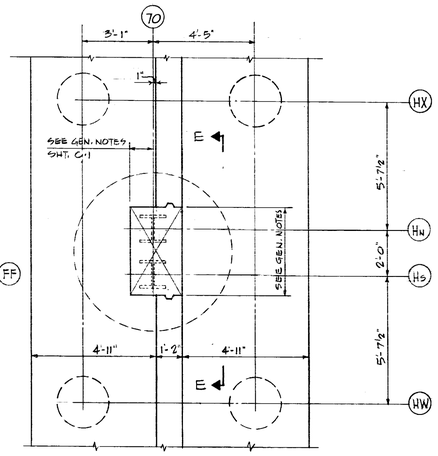
NOTE:

MARKS SHOWN THUS 370 CC ON PLAN INDICATE THAT THE No. 370 IS THE FTG. NUMBER & THE LETTERS "CC" INDICATE THE FOOTING TYPE DETAIL. ALSO SEE FTG. SCH'D.

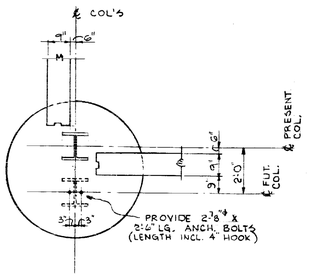


PLAN

TYPE "DD"

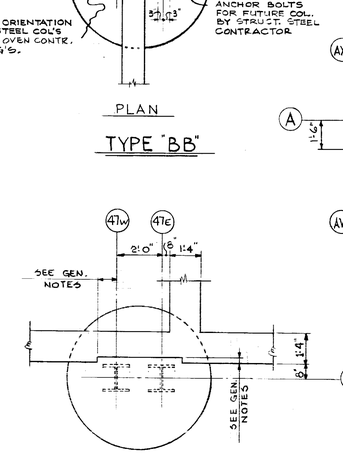


PLAN



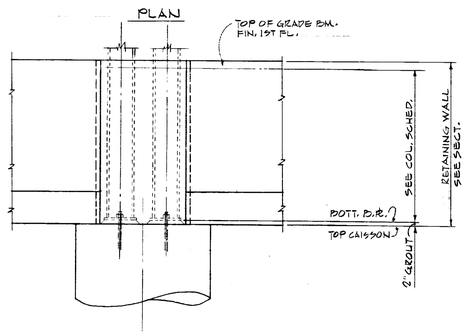
PLAN

TYPE "FF"



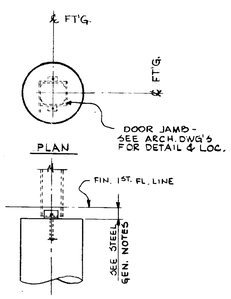
PLAN

TYPE "GG"



SECT. E-E

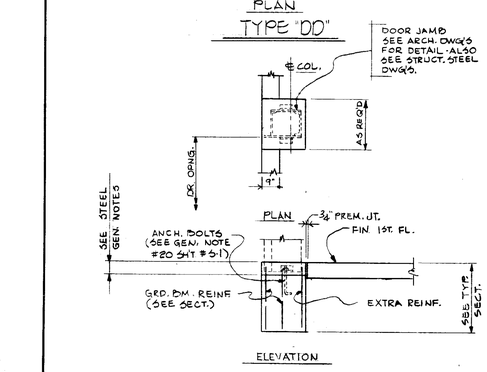
TYPE "EE"



PLAN

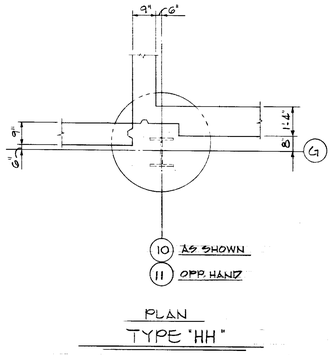
ELEVATION

TYPE "KK"



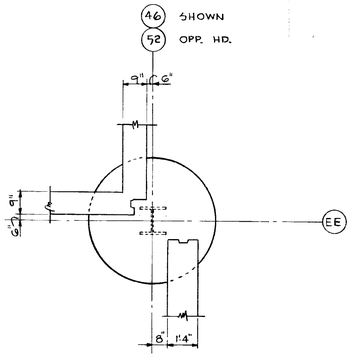
ELEVATION

TYPE "LL"



PLAN

TYPE "HH"



PLAN

TYPE "JJ"

NOTE: SCALE FOR ALL DETAILS THIS SHT.: 3/8" = 1'-0" (U.N.)

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. W/G REFER.		
3-23-77	PRIME MECH'Y	ELECT REF	
3-21-77	CAISSON BLDG	R. J. Marek	J. Elman
4-18-77	PIER PEDT. BLD	ELEC.	
4-28-77	FIRST FLOOR CONCRETE BLDG	R. J. Marek	R. J. Elman

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
70	8-1-77	W.A.	[illegible]	[illegible]
57	7-27-77	D.W.	[illegible]	[illegible]
60	7-21-77	A.C.	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]
39	6/16/77	E.K.	[illegible]	[illegible]
24	5/25/77	E.K.	[illegible]	[illegible]
P.C. 18	5/11/77	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 REAL ESTATE & CONSTRUCTION

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER 4500

DATE 4-28-77

DRAWN BY BROSKY

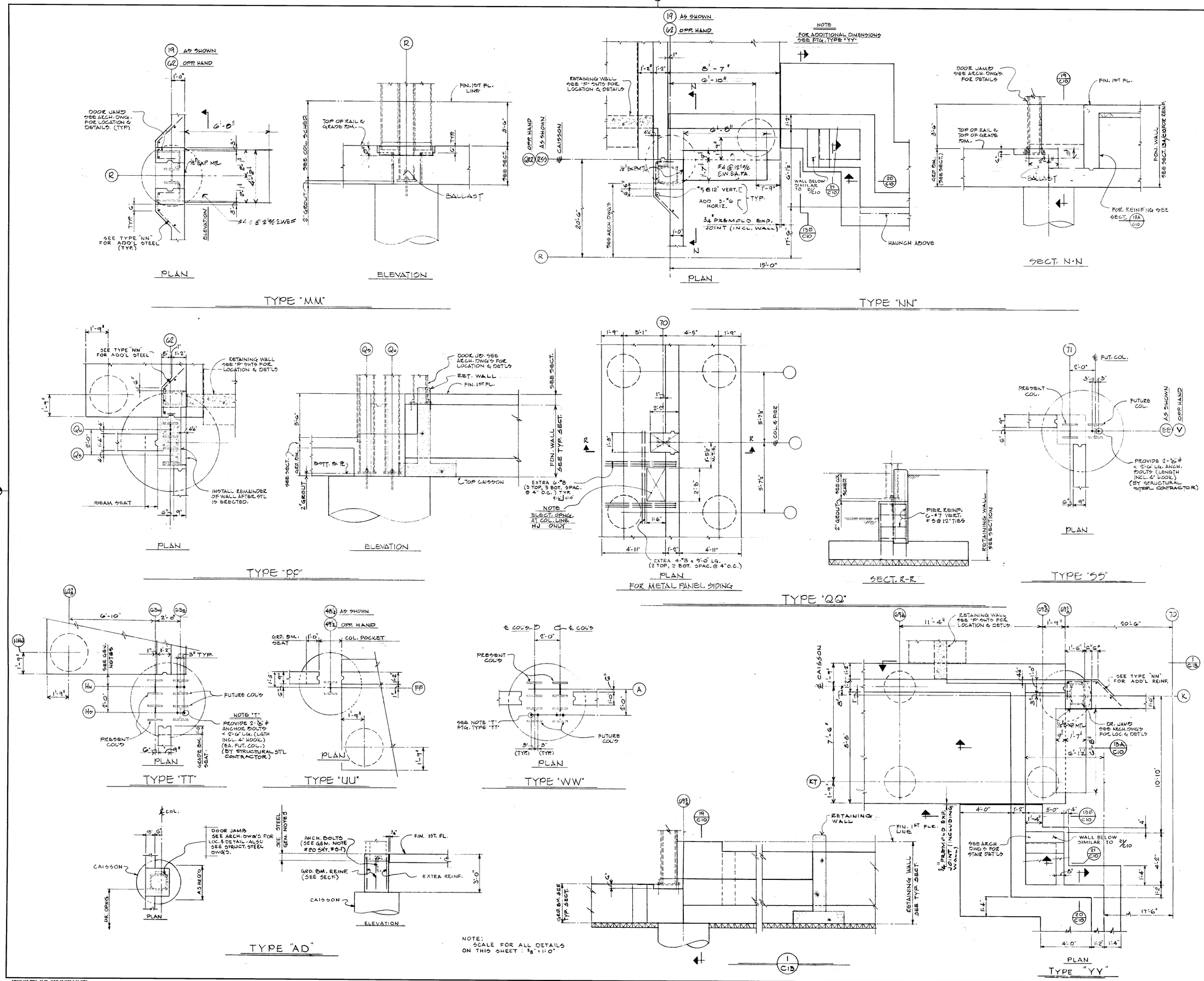
JOB CAPT. E. KUCZYNSKI

C-12

SHEET NUMBER

ARGO 118 REV. 12-69 K&E 17 0133 2-74 1750+

PROJECT NO. SHEET NO.



DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. U.G. REF.		
3-22-77	PRIME MECH.	ELECT REF	
3-2-77	CAISSON BIDS		
4-18-77	FIRE PROT. BID	REF.	
4-8-77	FIRE PROT. SOLICIT. BIDS		

KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
SR23-5	6-28-78	R.M.		
70	8-1-77	W.K.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
24	5/23/77	E.K.		
RC.23	5-12-77	E.K.		
RC.18	5/11/77	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
GM ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 4-28-77

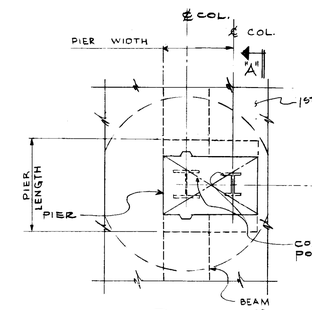
DRAWN BY ALGINI

JOB CAPT. KUCZYNSKI

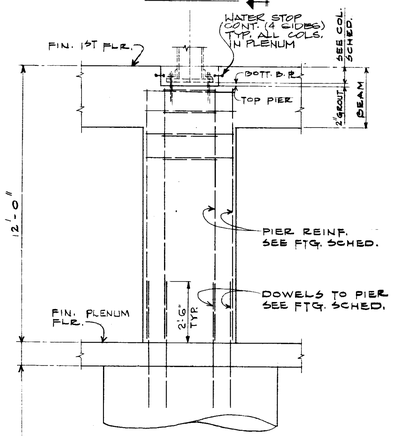
C-13
SHEET NUMBER

ARGO 118 REV. 12-69 K&E 17 0133 2-74 1750

PROJECT NO. SHEET NO.

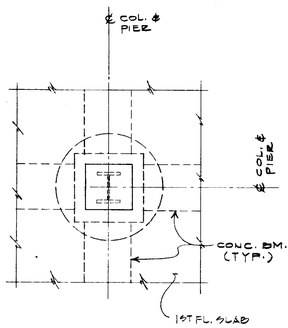


PLAN



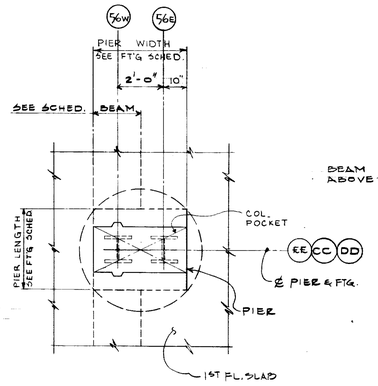
SECTION "A-A"

TYPE "AE"



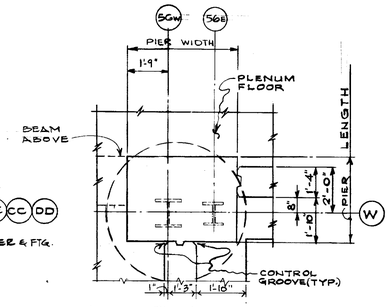
PLAN

TYPE "AF"



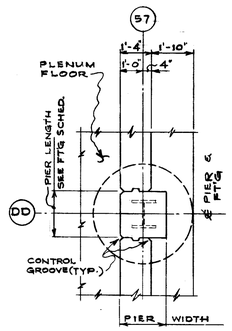
PLAN

TYPE "AG"



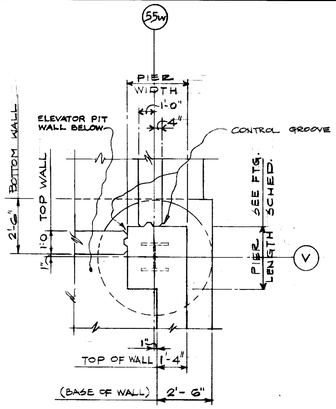
PLAN

TYPE "AH"



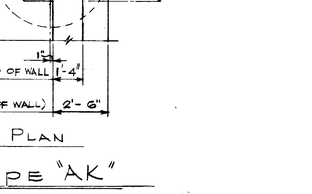
PLAN

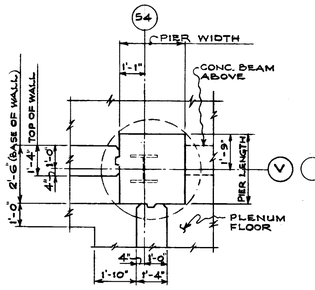
TYPE "AJ"



PLAN

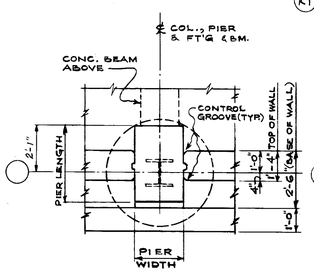
TYPE "AK"





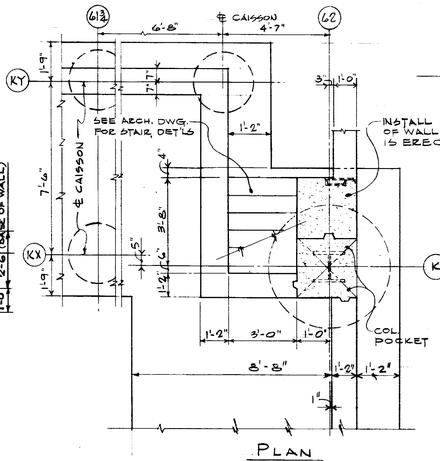
PLAN

TYPE "AL"



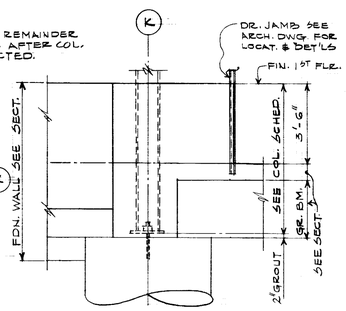
PLAN

TYPE "AM"

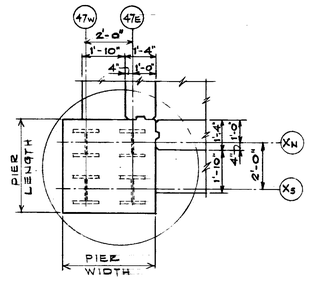


PLAN

TYPE "AN"

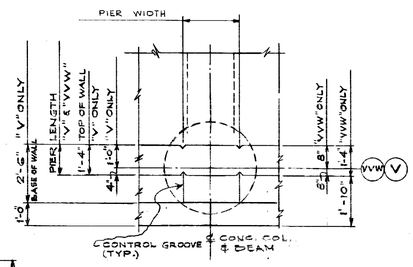


ELEVATION



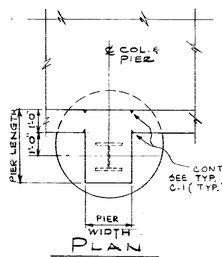
PLAN

TYPE "AQ"



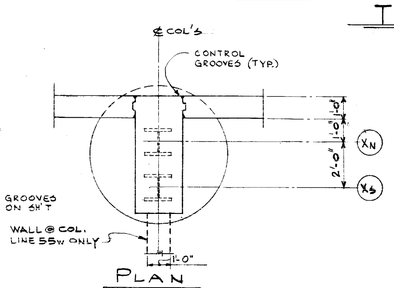
PLAN

TYPE "AS"



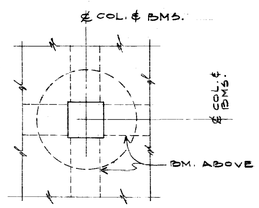
PLAN

TYPE "AT"



PLAN

TYPE "AU"



PLAN

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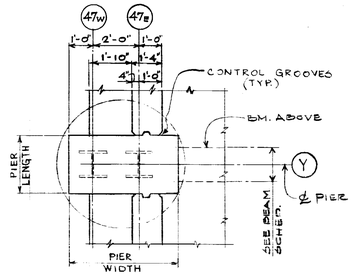
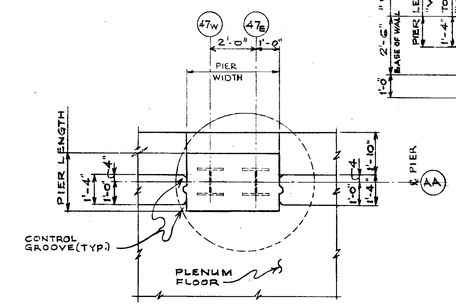


PLAN



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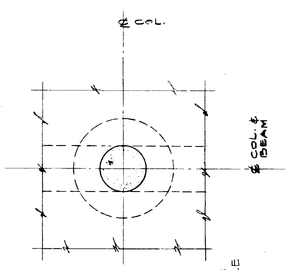

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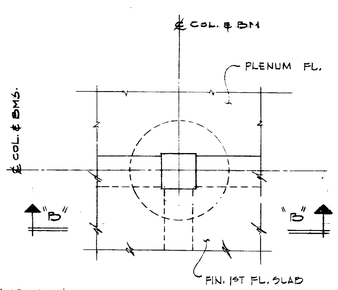
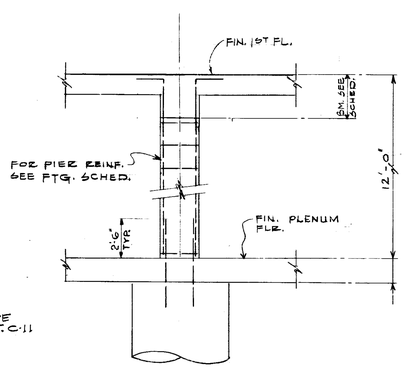


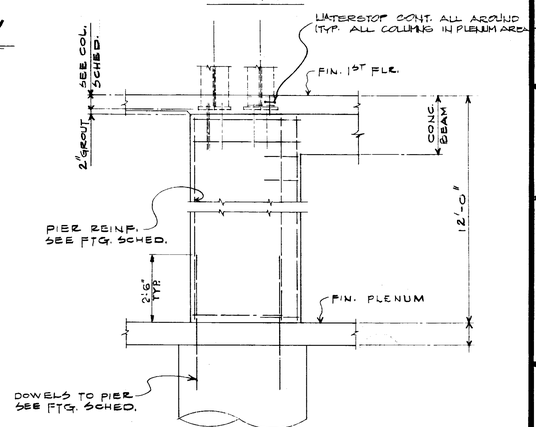
PLAN

TYPE "BD"

NOTE - FOR TYPE "BDA" SEE SH'T. C-11

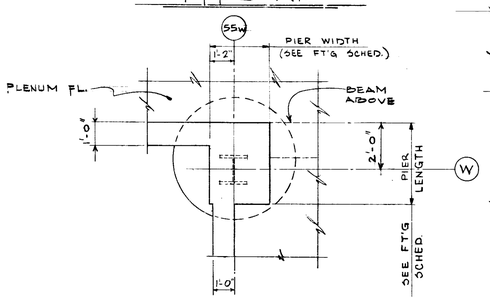


SECTION "B-B"



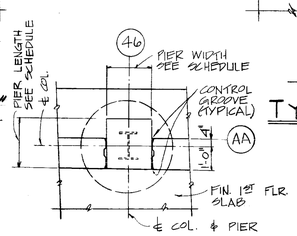
ELEVATION

TYPE "AW"



PLAN

TYPE "AX"



PLAN

TYPE "AMa"

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. U.G. REF'S		
3-25-77	PRIME MECH 7	ELECT REF	
3-21-77	CAISSON BIDS	R. Heard	J. Clayborn
4-18-77	FIRE PROT BID	REF.	
4-28-77	CONCRETE PLANT BIDS	R. Heard	J. Clay
4-25-77	FIBERGLASS CONCRETE BIDS	R. Heard	J. Clay
6-7-77	REF. FOR BULL'TIN #38		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
85	9-9-77	E.K.		
44	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
P.C. 26	5-20-77	E.K.		
P.C. 23	5-23-77	E.K.		
P.C. 17	5/10/77	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

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P. E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY R. TAYLOR

JOB CAPT. KUCZYNSKI

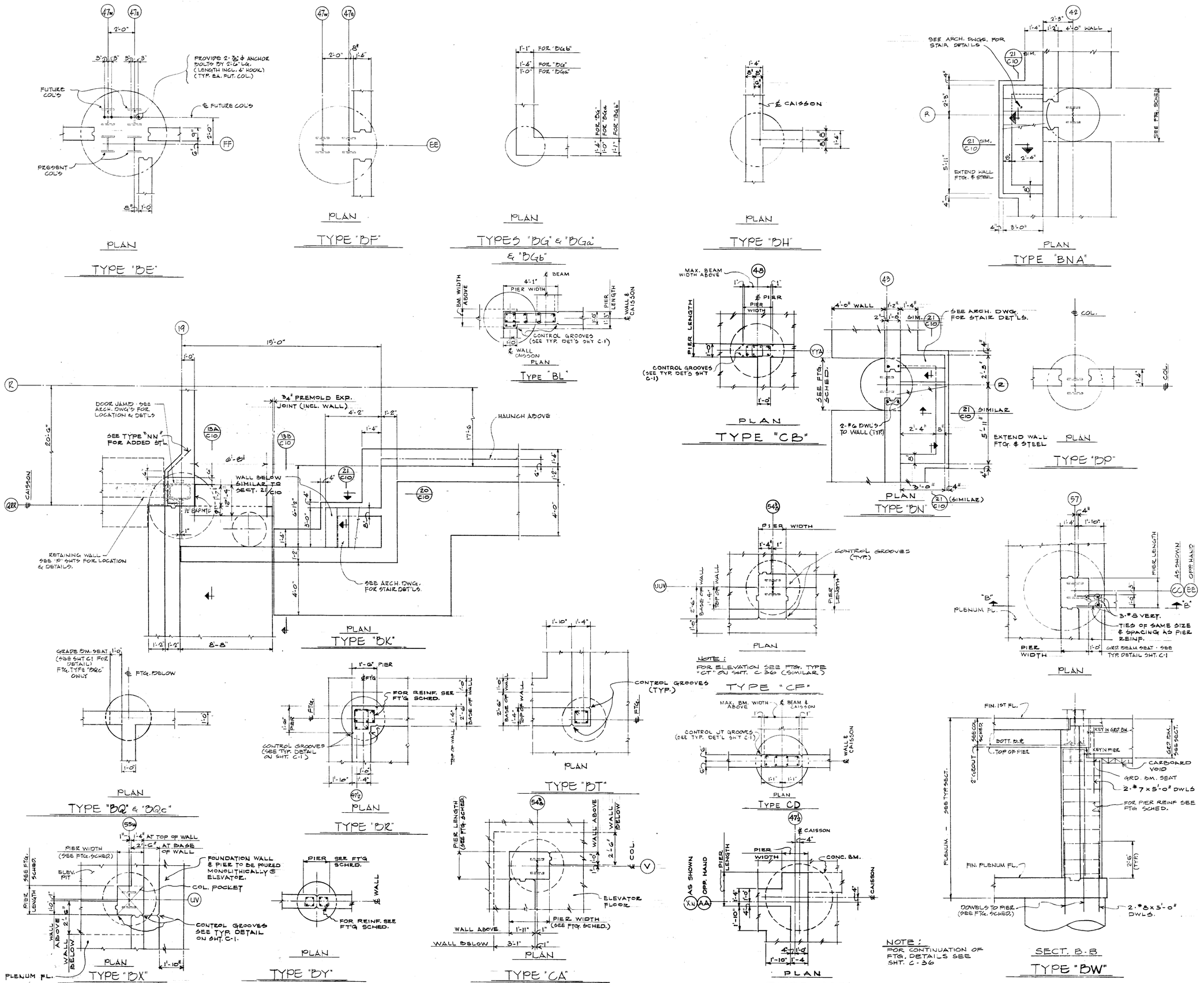
C-14

SHEET NUMBER

ARGO 118 REV. 12-69 KOKE 17 0153 2-74 1790+

MAR 3 1978

PROJECT NO. SHEET NO.



DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. W.G. REFER		
3-23-77	PRIME MECH'L	ELECT REF	
3-21-77	CAISSON BIDS	J. Hearn	J. Hearn
4-18-77	FIRE PROT. BID	REF.	
4-25-77	CONCRETE & CONCOURSE BIDS	J. Hearn	J. Hearn
4-28-77	FIRST FLOOR	J. Hearn	J. Hearn
4-28-77	CONCRETE BIDS	J. Hearn	J. Hearn
6-7-77	REF. FOR BULL	TW #38	

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
EFO 315	6-27-78	RM		
85	8-8-77	E.K.		
70	8-1-77	W.A.		
EFO 70	7-21-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
P.C. 28	5/20/77	E.K.		
P.C. 18	5/11/77	E.K.		
P.C. 17	5/10/77	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 MILWAUKIE 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

FOOTING DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P. E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY ALGINI

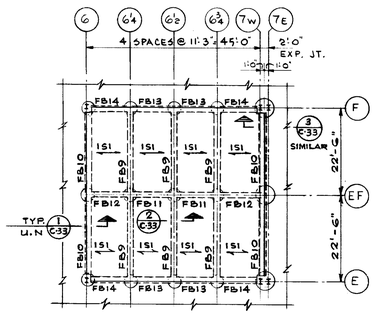
JOB CAPT. KUCZYNSKI

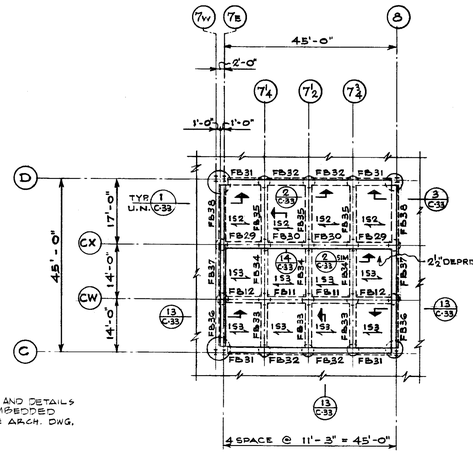
C-15

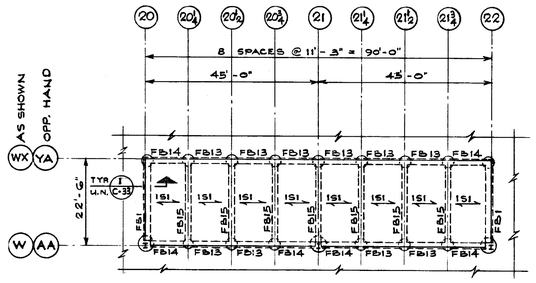
SHEET NUMBER

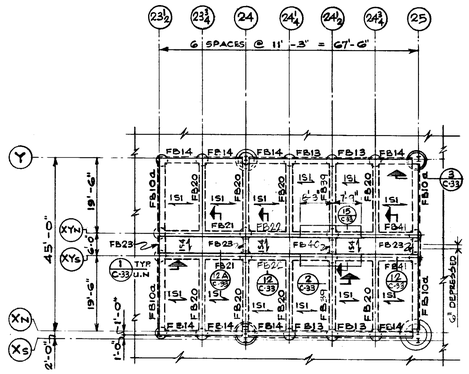
ARGO 118 REV. 12-69 KAE 17 0133 2-74 1750+

PROJECT NO. SHEET NO.

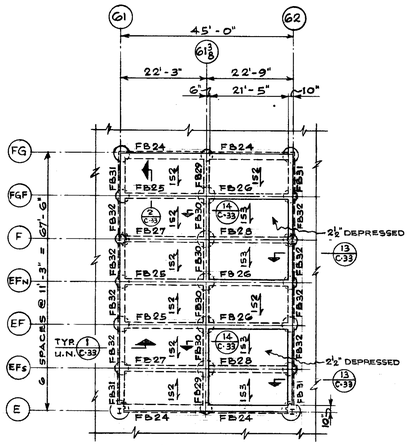






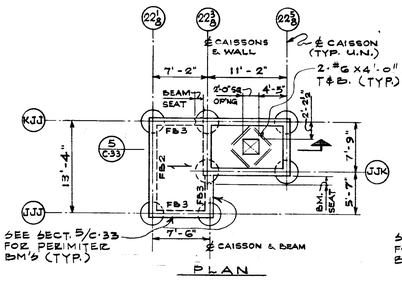


NOTE: FOR LOCATION AND DETAILS OF STEEL PLATES EMBEDDED INTO CONC. SLAB SEE ARCH. DWG.



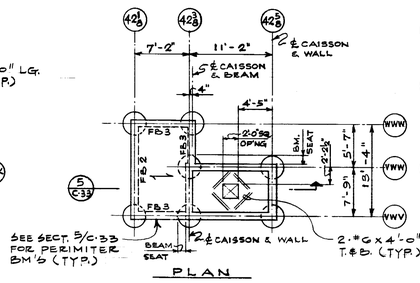
FIRST FLOOR SUPPORTED SLAB FRAMING PLANS

1/16" = 1'-0"



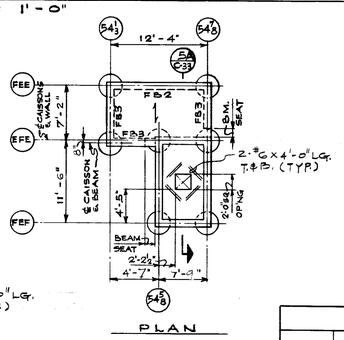
PLAN

ELEVATOR #1



PLAN

ELEVATOR #2



PLAN

ELEVATOR #3

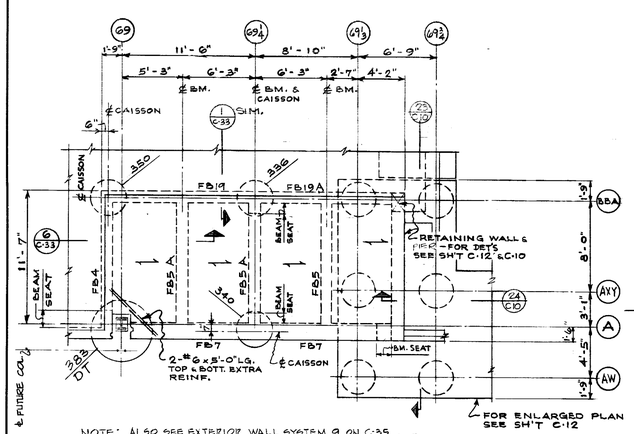
NOTES

1. BEND TOP BARS DOWN AT NON-CONTINUOUS EDGES OF SLAB.
2. EXTEND TEMPERATURE REINFORCING INTO BEAM A MINIMUM OF 6".
3. FOR TYPICAL SLAB AND BEAM DETAILS SEE SH'T C-25.
4. FOR CONCRETE AND REINFORCING STEEL REQUIREMENTS, SEE SPECIFICATIONS.
5. FLOOR SLAB DESIGN LIVE LOADS ARE AS FOLLOWS:
   a. FIRST FLOOR SUPPORTED SLAB = 350 P.S.F. OR 8KIP CAPACITY FORK LIFT TRUCK.
   b. ELEVATOR MACHINE ROOM = 250 P.S.F.
6. FOR TYPICAL BEAM REINF. DETAIL SEE SH'T C-38.
7. PROVIDE 2-#5 STIRRUP TIE BARS WHEN TOP BARS ARE NOT AT CORNERS OF THE BEAM.

FIRST FLOOR SUPPORTED SLAB SCHEDULE

MARK	THICKNESS	REINFORCEMENT: BOTTOM STRAIGHT	TOP CONTINUOUS	TEMPERATURE: TOP	TEMPERATURE: BOTTOM	REMARKS
151	9"	#6@6"	#6@6"	#4@12"	#6@12"	
152	11½"	#6@6"	#6@6"	#4@12"	#6@12"	
153	9"	#7@6"	#6@6"	#4@12"	#6@12"	2½" DEPRESSED WITH CONCRETE FILL.
154	7"	#6@6"	#6@12"	#4@12"	#6@12"	

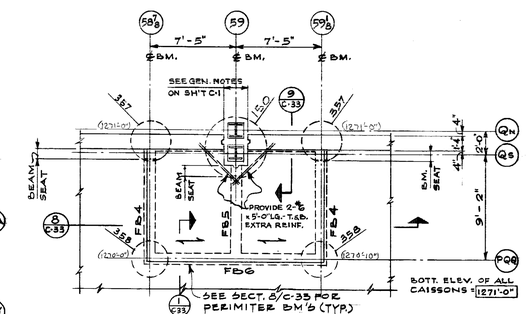
ELEVATOR MACHINE ROOM FLOOR FRAMING PLANS



NOTE: ALSO SEE EXTERIOR WALL SYSTEM 9 ON C-35

FIRST FLOOR TOILET ROOM #11 FRAMING PLAN

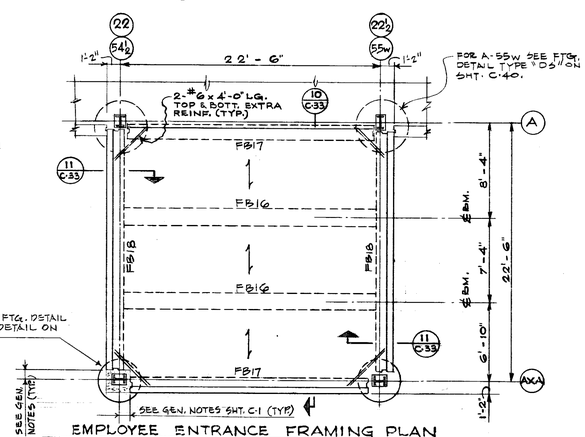
3/16" = 1'-0"



FIRST FLOOR TOILET ROOM #12 FRAMING PLAN

3/16" = 1'-0"

NOTE: MARKS SHOWN THUS 22S ON PLANS INDICATE FTG. NO. (SEE FTG. SCHED.)



EMPLOYEE ENTRANCE FRAMING PLAN

3/16" = 1'-0"

NOTE: ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATIONS AS BUILT.

NOTE

FOR CONTINUATION OF BEAM SCHEDULE SEE SHT. C-33.

CONCRETE BEAM SCHEDULE (FOR CONTINUATION SEE SH'T C-33)

BEAM MARK	SIZE (b x d)	SHAPE	LONGITUDINAL REINFORCING: STRAIGHT BOTTOM	TOP: STRAIGHT CONT.	TOP: OVER SUPPORT	PLACEMENT	STIRRUP REINFORCING: SIZE	TYPE	SPACING EACH END U.N.	REMARKS
FB1	16" x 30"		4-#11	3-#7	—		#3		@12" O.C. THRU-OUT	
FB2	12" x 24"		2-#8	2-#6	—		#3		do.	BEND TOP REINF. AT DISC. END.
FB3	12" x 24"		2-#6	2-#6	—		#3		do.	do.
FB4	12" x 26"		3-#8	2-#6	—		#3		do.	do.
FB5 / FB5A	12" x 24" / 16" x 24"		3-#8 / "	2-#6 / "	—		#3 / "		do.	do.
FB6	12" x 26"		3-#9	2-#7	—		#3		do.	do.
FB7	16" x 36"		3-#8	2-#8	1-#7 x 8'-0" LG. AT CONT. SUPPORT		#3		do.	EXTEND TOP REINF. INTO ADJACENT BEAM.
FB8	12" x 36"		2-#8	2-#7	1-#7 x 8'-0" LG. AT CONT. SUPPORT		#3		do.	SEE EXTERIOR SYSTEM #9 SH'T C-35
FB9	18" x 30"		5-#10	3-#9	2-#9 x 15'-0" LG. AT CONT. SUPPORT (2 LAYERS)		#4		8@8"; REMAINDERS @ 12" O.C.	EXTEND TOP REINF. 7'-6" INTO ADJACENT BEAM.
FB10 / FB10a	16" x 30"		3-#11	2-#9	1-#9 x 15'-0" LG. CONT. SUPPORT (FOR FB10 ONLY)		#3		5@10"; REMAINDERS @ 12" O.C.	EXTEND TOP REINF. 7'-6" INTO ADJACENT BEAM (FOR FB10 ONLY)
FB11	12" x 30"		2-#8	2-#6	—		#3		@ 12" O.C. THROUGH-OUT	LAP TOP REINF. AT MID-SPAN
FB12	12" x 30"		2-#8	2-#6	—		#3		do.	BEND TOP REINF AT DISC. END.
FB13	14" x 30"		2-#8	2-#6	—		#3		do.	LAP TOP REINF. AT MID-SPAN.
FB14	14" x 30"		2-#8	2-#6	—		#3		do.	BEND TOP REINF. AT DISC. END
FB15	18" x 30"		5-#10 + 2-#10 x 11'-6" LG. (2 LAYERS)	3-#8	—		#4		do.	TOP LAYER OF BOTT. REINF. CENTERED AT MID-SPAN.
FB16	16" x 30"		5-#10	3-#7	—		#3		do.	BEND TOP REINF. AT DISC. END
FB17	18" x 36"		5-#9	3-#7	—		#3		do.	do.
FB18	18" x 36"		5-#11	3-#8	—		#4		do	do
FB19 / FB19A	14" x 26" / 14" x 34"		3-#8 / "	2-#9 / "	1-#9 x 8'-0" LG. AT CONT. SUPPORT		#3		@ 8" AT CONT. SUPPORT REMAINDERS @ 12" O.C.	EXTEND TOP OVER SUPPORT REINF. 6'-0" INTO ADJACENT BM
FB20	16" x 30"		5-#10	3-#7	—		#4		@ 12" O.C. THRU-OUT	BEND TOP REINF. AT DISC END.
FB21	18" x 30"		5-#11	5-#10	—		#4		7@9" AT CONT. SUPPORT REMAINDERS @ 12" O.C.	EXTEND TOP REINF. 14'-1" INTO FB22
FB22	18" x 30"		4-#10	—	5-#9 x 21'-0" CENTER ON GRID 24½		#4		@ 12" O.C. THRU-OUT	
FB23	16" x 24"		3-#6	3-#6	—		#3		do.	EXTEND TOP REINF. 2'-0" INTO FB20

NO.	DATE	BY	APPROVAL	APPROVAL
3-63	11	PRIME MACH & BLDG'T	REF.	
4-8-77		FIRST FLOOR & CONCRETE BLDG.		
142	6-19-78	MAT	AS BUILT	
EFO 327	6-1-78	DG		
130	1-6-78	LS		
EFO-62	8-30-77	J.S.		
70	8-1-77	W.A.		
50	7-21-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
P.C.18	5-11-77	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 DIVISION OF GENERAL MOTORS

GENERAL MOTORS CORPORATION 485 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

SUPPORTED SLAB PLANS AND DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P. E. & C. PROJECT NUMBER

DATE 4-25-77

DRAWN BY R. NAGY

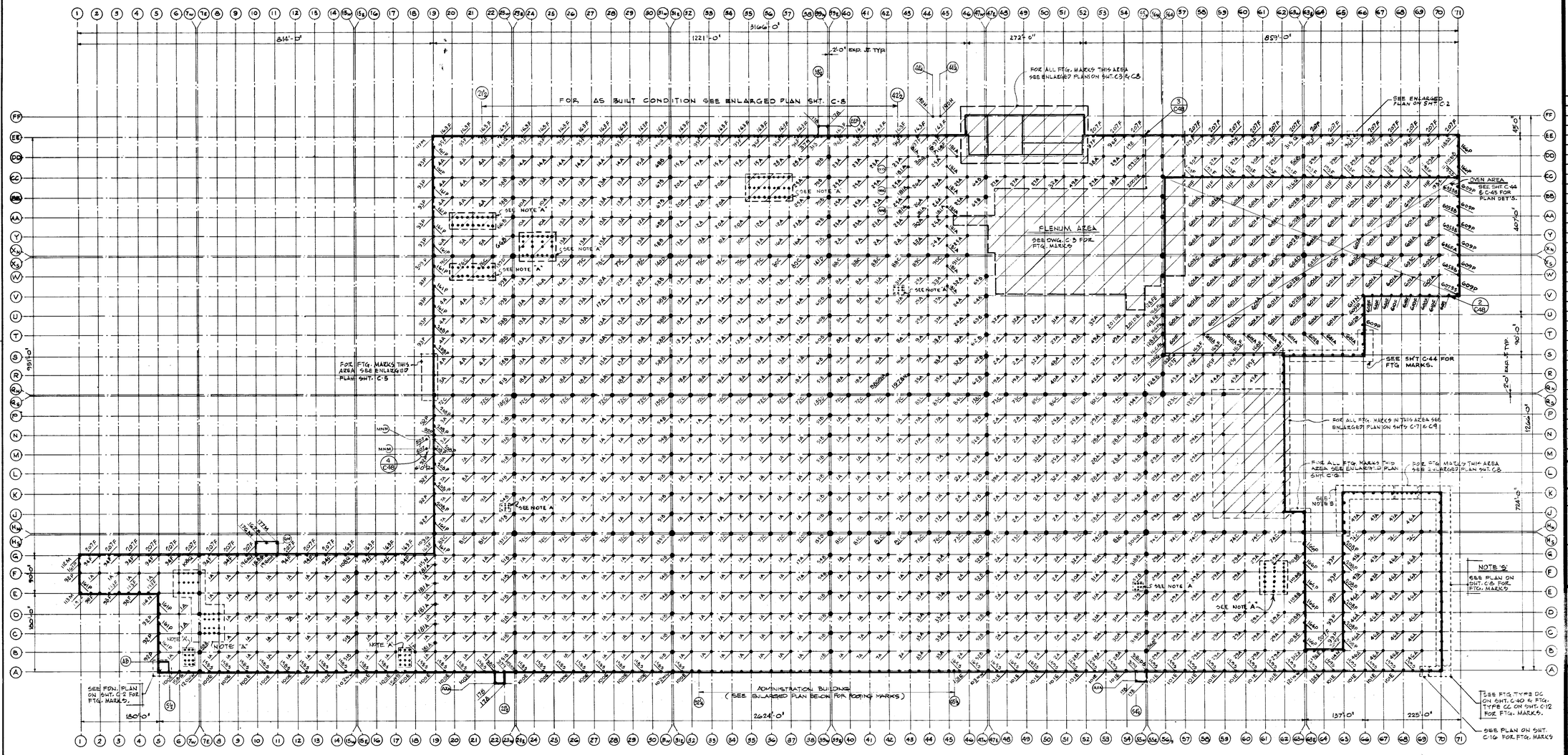
JOB CAPT. E. KUCZYNSKI

C-16 SHEET NUMBER

ARGO 118 REV. 12-69 K&E 17 0133 5-74 1790-

PROJECT NO. SHEET NO.

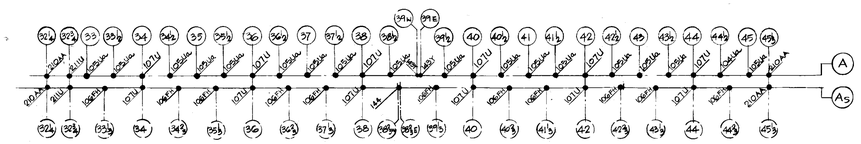
DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH. U.G. REFER.		
3-23-77	PRIME MECH & ELECT REF.		
3-21-77	CAISSON BIDS		
4-18-77	FIRE PROT. BID REF.		
4-28-77	FOOT F.C.R. CONCRETE BIDS		



NOTE: MARKS SHOWN THUS; 1A. ON PLAN INDICATES THAT THE NUMBER "1" IS A FOOTING NUMBER AND THE LETTER "A" INDICATES THE FOOTING TYPE (DETAIL). ALSO SEE FOOTING SCHEDULE.

NOTE "A": FOR FT'G NO. & TYPES SEE FOUNDATION PLANS.

FOOTING LOCATION · MASTER PLAN



ENLARGED PLAN ALONG COLUMN LINE "A"

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
EFS 127	10-17-77	E.K.		
85	9-9-77	E.K.		
57	7-27-77	D.L.W.		
60	7-18-77	A.C.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
38	6/1/77	A.C.		
24	5/25/77	E.K.		
PC.23	5-16-77	E.K.		
PC.18	5-11-77	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 AUTHORITY TENANCY BY
G M ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING LOCATION MASTER PLAN

SHEET TITLE

OWNER'S IDENTIFICATION

4500 PROJECT NUMBER

DATE 4-28-77

DRAWN BY BROSKY

JOB CAPT. S. KUCZYNSKI A. CHU

C-17 SHEET NUMBER

PROJECT NO. SHEET NO.

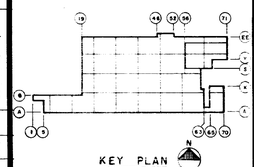
FOOTING SCHEDULE

| | | |

PROJECT NO. SHEET NO.

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	SHAFT: DIMENSION FROM FIN. 1ST FLOOR	SHAFT: DIAMETER	SHAFT: VERT. REINF.	SHAFT: TIES	BELL DIAMETER	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	REMARKS
AA-31w-AA-31E DD-31w-DD-31E	96K	290K	"68B"	2'-2"	4'-6"φ	12-#8	#5@12"	5'-6"φ	15	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
BB-31w-BB-31E CC-31w-CC-31E	130K	410K	"67B"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-6"φ	15	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
AA-23w-AA-23E Y-23w-Y-23E	85K	225K	"66B"	2'-2"	4'-6"φ	———	#5@12"	———	15	℄ COL. & CAISSON; 10"; 1'-2"; ℄ CAISSON
W-47w-W-47E BB-47w-BB-47E	256K	530K	"65B"	2'-2"	4'-6"φ	12-#8	#5@12"	8'-0"φ	12	℄ COL. & CAISSON; 1'-2½"; 9½"; ℄ CAISSON
V-47w-V-47E CC-47w-CC-47E	204K	510K	"64B"	2'-2"	4'-6"φ	12-#8	#5@12"	7'-6"φ	12	℄ COL. & CAISSON; 1'-1½"; 1'-0½"; ℄ CAISSON
U-47w-U-47E	130K	350K	"63B"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-6"φ	12	℄ COL. & CAISSON; 9"; 1'-3"; ℄ CAISSON
R-47w-R-47E S-47w-S-47E T-47w-T-47E	110K	295K	"62B"	6'-0" (R-47w-R-47E) 2'-2" (OTHERS)	4'-6"φ	12-#8	#5@12"	6'-6"φ	12	℄ COL. & CAISSON; 8"; 1'-4"; ℄ CAISSON
S-39w-S-39E	130K	290K	"61B"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-0"φ	15	℄ COL. & CAISSON; 1'-2"; 10"; ℄ CAISSON
T-39w-T-39E U-39w-U-39E V-39w-V-39E W-39w-W-39E	185K	395K	"60B"	2'-2"	5'-0"φ	14-#8	#5@12"	7'-0"φ	15	℄ COL. & CAISSON; 1'-4"; 8"; ℄ CAISSON
V-23w-V-23E W-23w-W-23E	145K	325K	"59B"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-0"φ	15	℄ COL. & CAISSON; 8"; 1'-4"; ℄ CAISSON
S-23w-S-23E T-23w-T-23E U-23w-U-23E S-31w-S-31E T-31w-T-31E U-31w-U-31E V-31w-V-31E W-31w-W-31E Y-31w-Y-31E BB-23w-BB-23E CC-23w-CC-23E DD-23w-DD-23E	80K	200K	"58B"	5'-8" (BB-23w, 23E) 2'-2" (OTHERS)	4'-6"φ	———	———	———	15	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
D-55w-D-55E E-55w-E-55E F-55w-F-55E J-55w-J-55E	195K	390K	"57B"	2'-2"	5'-0"φ	14-#8	#5@12"	7'-0"φ	12	℄ COL. & CAISSON; 5"; 1'-7"; ℄ CAISSON
B-55w-B-55E K-55w-K-55E L-55w-L-55E M-55w-M-55E N-55w-N-55E P-55w-P-55E DD-63w-DD-63E	75K	170K	"56B"	2'-2"	4'-6"φ	12-#8	#5@12"	———	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
J-23w-J-23E	180K	375K	"55B"	2'-2"	5'-0"φ	14-#8	#5@12"	6'-0"φ	15	℄ COL. & CAISSON; 5"; 1'-7"; ℄ CAISSON
E-31w-E-31E F-31w-F-31E N-31w-N-31E P-31w-P-31E F-39w-F-39E G-39w-G-39E K-23w-K-23E	130K	270K	"54B"	2'-2"	5'-0"φ	———	———	———	15	℄ COL. & CAISSON; 7"; 1'-5"; ℄ CAISSON
B-7w-B-7E	95K	220K	"53B"	2'-2"	4'-6"φ	———	———	———	15	℄ COL. & CAISSON; 9"; 1'-3"; ℄ CAISSON
B-47w-B-47E C-47w-C-47E D-47w-D-47E E-47w-E-47E F-47w-F-47E G-47w-G-47E J-47w-J-47E K-47w-K-47E L-47w-L-47E M-47w-M-47E N-47w-N-47E P-47w-P-47E	75K	165K	"52B"	2'-2"	4'-6"φ	———	———	———	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
B-15w-B-15E, C-15w-C-15E, D-15w-D-15E E-15w-E-15E, F-15w-F-15E, B-23w-B-23E C-23w-C-23E, D-23w-D-23E, E-23w-E-23E F-23w-F-23E, G-23w-G-23E, L-23w-L-23E M-23w-M-23E, N-23w-N-23E, P-23w-P-23E R-23w-R-23E, B-31w-B-31E, C-31w-C-31E D-31w-D-31E, G-31w-G-31E, J-31w-J-31E K-31w-K-31E, L-31w-L-31E, M-31w-M-31E R-31w-R-31E, B-39w-B-39E, C-39w-C-39E D-39w-D-39E, E-39w-E-39E, J-39w-J-39E K-39w-K-39E, L-39w-L-39E, M-39w-M-39E N-39w-N-39E, P-39w-P-39E, R-39w-R-39E	70K	160K	"51B"	2'-0" (R-23w-R-23E, R-31w-R-31E, R-39w-R-39E) 2'-0" (OTHERS)	4'-0"φ	———	———	———	15	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
DD-58, DD-61	155K	385K	"50A"	2'-2'	3'-6"φ	9-#8	#4@12"	6'-6"φ	12	
T-52 T-53 T-54 T-55w CC-52	350K	605K	"49A"	2'-2"	4'-0"φ	10-#8	#5@12"	8'-6"φ	12	



NOTE: ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	SHAFT: DIMENSION FROM FIN. 1ST FLOOR	SHAFT: DIAMETER	SHAFT: VERT. REINF.	SHAFT: TIES	BELL DIAMETER	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	REMARKS
Qs-52-QN-52	120K	390K	"87C"	2'-2"	4-6"φ	12-#8	#5@12"	7'-0"φ	12	℄ COL. & CAISSON; 9"; 1'-3"; ℄ CAISSON
Qs-51-QN-51	130K	410K	"86C"	2'-2"	4'-6"φ	12-#8	#5@12"	7'-0"φ	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Qs-50-QN-50	95K	290K	"85C"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-0"φ	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Qs-46-QN-46	85K	225K	"84C"	2'-2"	4-6"φ	12-#8	#5@12"	5'-6"φ	12	℄ COL. & CAISSON; 1'-3"; 1'-3"; ℄ CAISSON
Qs-44-QN-44 Qs-45-QN-45	95K	255K	"83C"	2'-2"	4'-0"φ	10-#8	#5@12"	5'-6"φ	15	℄ COL. & CAISSON; 1'-1"; 1'-1"; ℄ CAISSON
Hs-20-HN-20 Qs-53-QN-53	130K	275K	"82C"	2'-2"	5'-0"φ	14-#8	#5@12"	———	15	℄ COL. & CAISSON; 1'-5"; 1'-5"; ℄ CAISSON
Hs-21-HN-21 Hs-22-HN-22 Hs-40-HN-40 Hs-41-HN-41 Hs-54-HN-54 HN-42, HN-43	195K	390K	"81C"	2'-2"	5'-0"φ	14-#8	#5@12"	6'-0"φ	15	℄ COL. & CAISSON; 1'-2"; 1'-2"; ℄ CAISSON
Xs-37-XN-37 Xs-38-XN-38	170K	400K	"80C"	2'-2"	5'-0"φ	14-#8	#5@12"	6'-6"φ	15	℄ COL. & CAISSON; 1'-4"; 1'-4"; ℄ CAISSON
Xs-29-XN-29	240K	695K	"79C"	2'-2"	5'-6"φ	16-#8	#5@12"	8'-0"φ	15	℄ COL. & CAISSON; 3'-6"; 1'-6"; ℄ CAISSON
Xs-28-XN-28 Xs-30-XN-30	170K	470K	"78C"	2'-2"	5'-0"φ	14-#8	#5@12"	7'-0"φ	15	℄ COL. & CAISSON; 5"; 1'-7"; ℄ CAISSON
Xs-26-XN-26	170K	400K	"77C"	2'-2"	5'-0"φ	14-#8	#5@12"	6'-6"φ	15	℄ COL. & CAISSON; 5"; 1'-7"; ℄ CAISSON
Hs-44-HN-44 Hs-45-HN-45 Xs-20-Xn-20 Xs-21-Xn-21 Xs-22-Xn-22	115K	275K	"76C"	2'-2"	4'-6"φ	12-#8	#5@12"	5'-6"φ	15	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Xs-27-Xn-27 Xs-32-Xn-32 Xs-33-Xn-33 Xs-34-Xn-34 Xs-35-Xn-35 Xs-36-Xn-36	80K	200K	"75C"	2'-2"	4'-6"φ	———	———	———	15	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Hs-53-HN-53 Hs-56-HN-56 Hs-57-HN-57 Hs-58-HN-58 Hs-59-HN-59 Hs-60-HN-60 Hs-61-HN-61 Hs-62-HN-62 Hs-66-HN-66 Hs-67-HN-67 Hs-68-HN-68 Hs-69-HN-69 Qs-54 QN-54 HN-52-HS-52	70K	160K	"74C"	2'-2"	4'-6"φ	12-#8	#5@12"	———	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Hs-48-HN-48 Hs-49-HN-49 Hs-50-HN-50 Hs-51-HN-51 Qs-45-QN-45 Qs-49-QN-49 Hs-46-HN-46	70K	160K	"73C"	2'-2"	4'-6"φ	———	———	———	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Hs-24-HN-24, Hs-25-HN-25, Hs-26-HN-26 Hs-27-HN-27, Hs-28-HN-28, Hs-29-HN-29 Hs-30-HN-30, Hs-32-HN-32, Hs-33-HN-33 Hs-34-HN-34, Hs-35-HN-35, Hs-36-HN-36 Hs-37-HN-37, Hs-38-HN-38, Hs-42- Hs-43-, Qs-20-QN-20, Qs-21-QN-21 Qs-22-QN-22, Qs-24-QN-24, Qs-25-QN-25 Qs-26-QN-26, Qs-27-QN-27, Qs-28-QN-28 Qs-29-QN-29, Qs-30-QN-30, Qs-32-QN-32 Qs-33-QN-33, Qs-34-QN-34, Qs-35-QN-35 Qs-36-QN-36, Qs-37-QN-37, Qs-38-QN-38 Qs-40-QN-40, Qs-41-QN-41, Qs-42-QN-42 Qs-43-QN-43,	70K	160K	"72C"	2'-2"	4'-0"φ	———	———	———	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
Y-39w-Y-39E	90K	210K	"71B"	2'-2"	5'-0"φ	———	———	———	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
BB-39w-BB-39E CC-39w-CC-39E	130K	410K	"70B"	2'-2"	4'-6"φ	12-#8	#5@12"	7'-0"φ	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON
AA-39w-AA-39E DD-39w-DD-39E	96K	290K	"69B"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-0"φ	12	℄ COL. & CAISSON; 1'-0"; 1'-0"; ℄ CAISSON

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	SHAFT: DIMENSION FROM FIN. 1ST FLOOR	SHAFT: DIAMETER	SHAFT: VERT. REINF.	SHAFT: TIES	BELL DIAMETER	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	REMARKS
G-7w-G-7E G-15w-G-15E	110K	225K	"108Q"	3'-0"	5'-6"φ	16-#8	#5@12"	———	15	FUT. LOAD = 60K INCL.; ℄ COL.; 1'-0"; ℄ COL.; ℄ CAISSON
A-34-As-34 A-36-As-36 A-38-As-38 A-40-As-40 A-42-As-42 A-44-As-44	213K	335K	"107U"	3'-0"	4'-6"φ	12-#8	7'-0"φ	12	℄ COL. (A); 1'-0"; ℄ COL. & CAISSON
As-33⅓, As-34⅓ As-35⅓, As-36⅓ As-37⅓, As-39⅓, As-40⅓ As-41⅓, As-42⅓ As-43⅓, As-44⅓	101K	120K	"106FH"	3'-0"	8-#8	#4@12"	4'-6"φ	12	℄ COL. (A); 1'-0"; 1'-0"; ℄ COL. (OFFICE BLDG); ℄ CAISSON
A-33, A-33½ A-34½, A-35 A-35½, A-36½ A-37, A-37½ A-38½, A-39½ A-40½, A-41 A-41½, A-42½ A-43, A-43½ A-45	144K	206K	"105Ua"	3'-0"	8-#8	#4@12"	5'-0"φ	12	℄ COL. (A); 1'-3"; 1'-3"; ℄ COL. & CAISSON
A-44½	127K	207K	"104Ua"	3'-0"	8-#8	#4@12"	5'-0"φ	12	℄ COL. (A); 1'-1"; 1'-1"; ℄ CAISSON
A-47w-A-47E	100K	236K	"103WW"	3'-0"	5'-0"φ	#5@12"	6'-0"φ	12	FUTURE LOAD = 80K INCL.; ℄ COL.; 1'-0"; ℄ CAISSON
A-15w-A-15E A-23w-A-23E A-31w-A-31E	102K	238K	"102WW"	3'-0"	5'-6"φ	16-#8	#5@12"	———	15	FUTURE LOAD = 80K INCL.; ℄ COL.; 1'-0"; ℄ CAISSON
A-46, A-48 A-49, A-50 A-51, A-52<A-53, A-56E A-57, A-58 A-59, A-60 A-61, A-62 A-65, A-66 A-67, A-68 A-54	165K	245K	"101E"	3'-0"	4'-0"φ	10-#8	#5@12"	6'-0"φ	12	FUTURE LOAD = 70K INCL.; ℄ COL.; 1'-0"; ℄ COL. & CAISSON
A-6, 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	129K	215K	"100E"	3'-0"	4'-0"φ	10-#8	#5@12"	5'-6"φ	15	FUTURE LOAD = 70K INCL.; ℄ COL.; 1'-0"; ℄ CAISSON
C-65, D-65 E-65, F-65 G-65, J-65	135K	215K	"99CL" (J-65) "99P" (OTHERS)	6'-6" @ J-65 3'-0" @ OTHERS	4'-0"φ	10-#8	#5@12"	5'-6"φ	12	FUTURE LOAD = 55K INCL.; ℄ COL.; 5"; 1'-7"; ℄ CAISSON
E-2, E-3 E-4	130K	200K	"98F"	3'-0"	4'-0"φ	10-#8	#5@12"	5'-0"φ	15	FUTURE LOAD = 55K INCL.; ℄ COL.; 5"; 1'-7"; ℄ CAISSON
EE-44, EE-45 EE-53	150K	380K	"97F"	3'-0"	4'-6"φ	12-#8	#5@12"	7'-0"φ	12	FUTURE LOAD = 70K INCL.; ℄ COL.; 1'-0"; ℄ COL. & CAISSON
EE-36, EE-37 EE-38, EE-40 EE-41, EE-42 EE-43, EE-62 EE-64, EE-65 EE-66, EE-67 EE-68, EE-69 EE-70, EE-54	130K	200K	"96F"	3'-0"	4'-0"φ	10-#8	#5@12"	5'-6"φ	12	FUTURE LOAD = 55K INCL.; ℄ COL.; 5"; 1'-7"; ℄ CAISSON
EE-20, EE-21 EE-22, EE-24 EE-25, EE-26 EE-27, EE-28 EE-29, EE-30 EE-32, EE-33 EE-34, EE-35	135K	230K	"95F"	3'-0"	4'-0"φ	10-#8	#5@12"	5'-0"φ	15	FUTURE LOAD = 70K INCL.; ℄ COL.; 1'-0"; ℄ CAISSON
G-2, G-3 G-4, G-5 G-6, G-8 G-9, , G-12 G-13, G-14 G-16, G-17 G-18	200K	380K	"94F"	93DG FOR 5-19 93P ALL OTHERS	4'-0"φ	12-#8	#5@12"	5'-0"φ	15	FUTURE LOAD = 55K INCL.; ℄ COL.; 5"; 1'-7"; ℄ CAISSON
T-19, U-19 V-19, W-19 Y-19, AA-19 BB-19, CC-19 DD-19, S-19	135K	230K	"92P"	6'-6" (5-19) 3'-0" (OTHERS)	4'-0"φ	10-#8	#5@12"	5'-6"φ	15	FUTURE LOAD = 70K INCL.; ℄ COL.; 3"; 1'-5"; ℄ CAISSON
B-5, C-5 D-5, F-1 J-19, K-19 L-19, M-19 N-19, P-19	130K	200K	"91C"	2'-2"	4'-6"φ	12-#8	#5@12"	7'-0"φ	15	FUTURE LOAD = 55K INCL.; ℄ COL.; 5"; 1'-7"; ℄ CAISSON
Xs-46-Xn-46	133K	370K	"90C"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-6"φ	12	℄ COL.; 1'-2½"; 1'-0"; ℄ COL. & CAISSON
Xs-45-Xn-45	105K	325K	"89C"	2'-2"	4-6"φ	12-#8	#5@12"	6'-6"φ	12	℄ COL.; 1'-2"; 1'-0"; ℄ COL. & CAISSON
Xs-44-Xn-44	118K	345K	"88C"	2'-2"	4'-6"φ	12-#8	#5@12"	6'-6"φ	12	℄ COL.; 2"; 1'-4"; ℄ COL. & CAISSON
Xs-40-Xn-40 Xs-41-Xn-41 Xs-42-Xn-42 Xs-43-Xn-43	195K	390K	"88C"	2'-2"	5'-0"φ	14-#8	#5@12"	7'-0"φ	12	℄ COL.; 5"; 1'-7"; ℄ COL. & CAISSON

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

NO.	DATE	BY	APPROVAL	APPROVAL
2-28-77	MECH.U.G. REFER			
3-23-77	PRIME MECH & ELECT REF.			
3-21-77	CAISSON BIDS			
4-28-77	FIRST FLOOR CONCRETE BIDS			

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
E-5 121	10-17-77	E.K.		
57	7-27-77	D.L.W.		
61	7-7-77	E.K.		
38	6/7/77	A.C.		
24	5/25/77	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
450 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

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE: 4-28-77

DRAWN BY: R. NAGY

JOB CAPT.: E. KUCZYNSKI, A. CHU

SHEET NUMBER: C-19

PROJECT NO. SHEET NO.

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	DIMENSION FROM FIN. 1ST FLOOR (SHAFT)	DIAMETER (SHAFT)	VERT. REINF. (SHAFT)	TIES (SHAFT)	BELL DIAMETER (SHAFT)	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	REMARKS
EE-59 EE-60	240K	"130F"	3'-0"	4'-6"ϕ	12-#8	#5@12"	8'-0"ϕ	12	FUTURE LOAD = 55K INCL.	
EE-61 EE-58	175K	"129F"	3'-0"	4'-6"ϕ	12-#8	#5@12"	7'-6"ϕ	12	FUTURE LOAD = 55K INCL.	
T-5Gw - T-5Gε U-5Gw - U-5Gε V-5Gw - V-5Gε	240K	"128FE"	3'-0"	5'-0"ϕ	14-#8	#5@12"	7'-0"ϕ	12		
S-57	172K	"127F"	3'-0"	4'-6"ϕ	12-#8	#5@12"	7'-6"ϕ	12		
S-58	130K	"126F"	3'-0"	4'-6"ϕ	12-#8	#5@12"	6'-6"ϕ	12		
S-59, S-60 S-61	100K	"125F"	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-6"ϕ	12		
R-5Gw-R-5Gε	132K	"124B"	6'-0"	4'-6"ϕ	12-#8	#5@12"	7'-0"ϕ	12		
Qs-57-Qn-57	132K	"123C"	2'-2"	4'-6"ϕ	12-#8	#5@12"	7'-0"ϕ	12		
Qs-58-Qn-58	115K	"122C"	2'-2"	4'-6"ϕ	12-#8	#5@12"	6'-0"ϕ	12		
A-G3w-A-G3ε	105K	"121WW"	3'-0"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	15	FUTURE LOAD = 80K INCL.	
A-7w-A-7ε	105K	"120WW"	3'-0"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	15	FUTURE LOAD = 80K INCL.	
CC-71	124K	"119SS"	3'-0"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	12	FUTURE LOAD = 100K INCL.	
EE-71	124K	"118SS"	"117M"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	12	FUTURE LOAD = 100K INCL.	
EE-19	120K	"115N"	3'-0"	5'-0"ϕ	14-#8	#5@12"	#5@12"	15	FUTURE LOAD = 65K INCL.	
A-5	115K	"114F"	3'-0"	5'-6"ϕ	16-#8	#5@12"	#5@12"	13	FUTURE LOAD = 100K INCL.	
G-19	100K	"113N"	3'-0"	4'-0"ϕ	10-#8	#5@12"	#5@12"	13	FUTURE LOAD = 40K INCL.	
E-5 B-G5	100K	"114N"	3'-0"	4'-0"ϕ	10-#8	#5@12"	#5@12"	15	FUTURE LOAD = 40K INCL.	
E-1	100K	"113M"	3'-0"	4'-6"ϕ	12-#8	#5@12"	#5@12"	15	FUTURE LOAD = 85K INCL.	
G-1	100K	"112M"	3'-0"	4'-6"ϕ	12-#8	#5@12"	#5@12"	15	FUTURE LOAD = 85K INCL.	
CC-58 CC-59 CC-60 CC-61 CC-62, CC-64 CC-65 CC-66 CC-67 CC-68 CC-69 CC-70	130K	"111F"	3'-0"	4'-0"ϕ	10-#8	#5@12"	#5@12"	12	FUTURE LOAD = 55K INCL.	
D-G3w, C-G3w D-G3ε, E-G3ε F-G3w, G-G3w DD-71	116K	"110BB"	3'-0"	4'-0"ϕ	10-#8	#5@12"	#5@12"	12	FUTURE LOAD = 70K INCL.	
Hs-19-Hn-19	110K	"109G"	3'-0"	5'-6"ϕ	16-#8	#5@12"	#5@12"	15		

FOOTING SCHEDULE

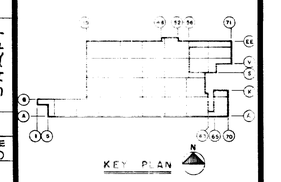
COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	DIMENSION FROM FIN. 1ST FLOOR (SHAFT)	DIAMETER (SHAFT)	VERT. REINF. (SHAFT)	TIES (SHAFT)	BELL DIAMETER (SHAFT)	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	REMARKS
K-68	180K	"152F"	6'-6"	4'-6"ϕ	12-#8	#5@12"	6'-0"ϕ	15	FUTURE LOAD = 55K INCL.	
K-65	190K	"151CH"	6'-6"	4'-0"ϕ	10-#8	#4@12"	6'-6"ϕ	15	FUTURE LOAD = 125K INCL.	
Qs-59-Qn-59	105K	"150" SEE PLAN SH'T C-16	3'-0"	5'-0"ϕ	16-#8	#5@12"	6'-0"ϕ	12	PROVIDE 6-#6 DW'LS	
B-70, C-70 D-70, E-70 F-70, G-70 J-70	180K	"149DB"	6'-10"	4'-6"ϕ	14-#8	#5@12"	6'-0"ϕ	15	FUTURE LOAD = 55K INCL.	
J-62	210K	"148CN"	6'-6"	4'-6"ϕ	12-#8	#5@12"	5'-6"ϕ	15	FUTURE LOAD = 25K INCL.	
K-62, M-62 N-62, P-62 R-62	105K	205K "147AN" FOR K-62 "147MM" FOR R-62 "147P" ALL OTHERS	6'-6"	5'-6"ϕ	16-#8	#5@12"	———	15	FUTURE LOAD = 55K INCL.	
EE-23w-EE-23ε EE-31w-EE-31ε	140K	240K	3'-0"	5'-6"ϕ	16-#8	#5@12"	———	15	FUTURE LOAD = 80K INCL.	
R-19	80K	280K	6'-6"	5'-0"ϕ	14-#8	#5@12"	———	15	FUTURE LOAD = 55K INCL.	
$A_{G}^{28\frac{1}{2}}N-A_{G}^{38\frac{1}{2}}E$	85K	145K	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-0"ϕ	12	SEE DTL. 1 ON SHT. C-48	
A-39W - A-39E	128K	218K	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-6"ϕ	12		
		"152F"	6'-6"	4'-6"ϕ	12-#8	#5@12"	6'-0"ϕ	15	FUTURE LOAD = 55K INCL.	
		"151CH"	6'-6"	4'-0"ϕ	10-#8	#4@12"	6'-6"ϕ	15	FUTURE LOAD = 125K INCL.	
		"150" SEE PLAN SH'T C-16	3'-0"	5'-0"ϕ	16-#8	#5@12"	6'-0"ϕ	12	PROVIDE 6-#6 DW'LS	
		"149DB"	6'-10"	4'-6"ϕ	14-#8	#5@12"	6'-0"ϕ	15	FUTURE LOAD = 55K INCL.	
		"148CN"	6'-6"	4'-6"ϕ	12-#8	#5@12"	5'-6"ϕ	15	FUTURE LOAD = 25K INCL.	
		205K "147AN" FOR K-62 "147MM" FOR R-62 "147P" ALL OTHERS	6'-6"	5'-6"ϕ	16-#8	#5@12"	———	15	FUTURE LOAD = 55K INCL.	
		240K	3'-0"	5'-6"ϕ	16-#8	#5@12"	———	15	FUTURE LOAD = 80K INCL.	
		280K	6'-6"	5'-0"ϕ	14-#8	#5@12"	———	15	FUTURE LOAD = 55K INCL.	
		145K	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-0"ϕ	12	SEE DTL. 1 ON SHT. C-48	
		218K	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-6"ϕ	12		
		"146Q"	6'-6"	5'-6"ϕ	16-#8	#5@12"	———	15	FUTURE LOAD = 55K INCL.	
		"145MM"	6'-6"	5'-0"ϕ	14-#8	#5@12"	———	15	FUTURE LOAD = 55K INCL.	
		"144"	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-0"ϕ	12	SEE DTL. 1 ON SHT. C-48	
		"143Y"	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-6"ϕ	12		
		"141D"	2'-2"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	13	FUTURE LOAD = 55K INCL.	
		"140D"	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	13	FUTURE LOAD = 100K INCL.	
		"139D"	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	13	FUTURE LOAD = 100K INCL.	
		"138D"	2'-2"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	12	FUTURE LOAD = 100K INCL.	
		"137D"	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	13	FUTURE LOAD = 100K INCL.	
		"136D"	2'-2"	5'-0"ϕ	14-#8	#5@12"	———	12	FUTURE LOAD = 100K INCL.	
		"135D"	2'-2"	5'-0"ϕ	14-#8	#5@12"	———	13	FUTURE LOAD = 100K INCL.	
		"134FF"	3'-0	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	12	FUTURE LOAD = 100K INCL.	
		"133FF"	3'-0"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	12	FUTURE LOAD = 100K INCL.	
		"132W"	3'-0"	4'-6"ϕ	14-#8	#5@12"	#5@12"	12	FUTURE LOAD = 70K INCL.	
		"131E"	3'-0"	4'-0"ϕ	10-#8	#5@12"	5'-6"ϕ	12	FUTURE LOAD = 70K INCL.	
Xn-39w-Xn-39ε Xs-39w-Xs-39ε	140K	330K	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	13		
Xn-31w-Xn-31ε Xs-31w-Xs-31ε	85K	235K	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	13		
Xn-23w-Xn-23ε Xs-23w-Xs-23ε	175K	260K	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	15		
Qn-47w-Qn-47ε Qs-47w-Qs-47ε	125K	290K	2'-2"	5'-6"ϕ	16-#8	#5@12"	6'-6"ϕ	12		
Hn-23w-Hn-23ε Hs-23w-Hs-23ε	125K	290K	2'-2"	5'-6"ϕ	16-#8	#5@12"	———	13		
Hn-47w-Hn-47ε Hs-47w-Hs-47ε	80K	200K	2'-2"	5'-0"ϕ	14-#8	#5@12"	———	12		
Hn-31w-Hn-31ε Hs-31w-Hs-31ε Hn-39w-Hn-39ε Hs-39w-Hs-39ε Qn-23w-Qn-23ε Qs-23w-Qs-23ε Qn-31w-Qn-31ε Qs-31w-Qs-31ε Qn-39w-Qn-39ε Qs-39w-Qs-39ε	80K	200K	2'-2"	5'-0"ϕ	14-#8	#5@12"	———	15		
FF-52	124K	220K	3'-0	5'-6"ϕ	16-#8	#5@12"	#5@12"	12	FUTURE LOAD = 100K INCL.	
FF-46	124K	220K	3'-0"	5'-6"ϕ	16-#8	#5@12"	#5@12"	12	FUTURE LOAD = 100K INCL.	
EE-49	125K	245K	3'-0"	4'-6"ϕ	14-#8	#5@12"	#5@12"	12	FUTURE LOAD = 70K INCL.	
FF-48, FF-50 FF-51	116K	225K	3'-0"	4'-0"ϕ	10-#8	#5@12"	#5@12"	12	FUTURE LOAD = 70K INCL.	

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	DIMENSION FROM FIN. 1ST FLOOR (STAIRS)	DIAMETER (STAIRS)	VERT. REINF. (STAIRS)	TIES (STAIRS)	BELL DIAMETER (STAIRS)	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	REMARKS
EEF-46 EF-1 CCD-19 FG-1 CD-5 DE-5 BC-5 GH-19 HJ-19 UV-19 VW-19 WX-19 XY-19 YA-19 AAB-19 BBC-19 DDE-19	40K	"161P"	3'-0"	3'-0"ϕ	———	———	———	12		
RSS-19	60K	"160NN"	6'-6"	4'-0"ϕ	———	———	———	15	PROVIDE 4-#6 DOWELS	
A-G3½, A-G4½, A-G5½, A-G6½, A-G7½, A-5O½ A-5I½, A-5J½, A-5K½, A-G8½, A-55½, A-5L½ A-57½, A-5M½, A-59½, A-G0½, A-G1½, A-G2½	100K	"159S"	3'-0"	4'-0"ϕ	10-#8	#5@12"	———	15		
, A-G½, A-7½, A-8½, A-9½, A-10½, A-11½, A-12½ A-13½, A-14½, A-15½, A-16½, A-17½, A-18½, A-19½, A-20½ A-21½, , A-23½, A-24½, A-25½, A-26½, A-27½, A-28½ A-29½, A-30½, A-31½, GH-10½	80K	"158S"	3'-0"	3'-0" ϕ	———	———	———	15		
M-61, N-61 P-61	60K	"157A"	6'-6"	3'-0"ϕ	———	———	———	15		
B-64	130K	"156F"	3'-0"	4'-0"ϕ	14-#8	#5@12"	#5@12"	12	FUTURE LOAD = 55K INCL.	
A-64	165K	"155E"	3'-0"	4'-0"ϕ	14-#8	#5@12"	#5@12"	12	FUTURE LOAD = 70K INCL.	
Qs-55w-Qs-55ε Qn-55w	90K	"154K"	2'-2"	5'-6"ϕ	16-#8	#5@12"	#5@12"	12	PROVIDE 4-#6 DOWELS	
L-61½	130K	"153S"	6'-6"	4'-0"ϕ	10-#8	#4@12"	———	15	FOR LOCATION SEE SH'T C-9	

ARGO 118 REV. 12-69 KAE 17 0153 2-74 1750+

DATE	ISSUED FOR	APPROVAL	APPROVAL
2-28-77	MECH U.G. REFER		
3-25-77	PRIME MECH & ELECT REF.		
3-21-77	CAISSON BIDS		
4-28-77	FIRST FLOOR CONCRETE BIDS		



NOTE: ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-75	D.G.	AS BUILT	
57	7-27-77	D.L.W.		
61	7-7-77	E.K.		
39	6-16-77	E.K.		
38	6-7-77	A.C.		
24	5-25-77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

ARGONAUT — GENERAL MOTORS CORPORATION — 440 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN — ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION SERVICES

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

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER: 4500

DATE 4-28-77

DRAWN BY R. NAGY

JOB CAPT. E. KUCZYNSKI, A. CHU

SHEET NUMBER: C-20

MAR 3 1978

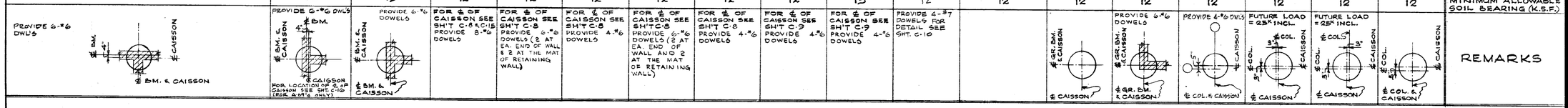
PROJECT NO. SHEET NO.

FOOTING SCHEDULE

COLUMN NUMBER																							
Cx-7¼, EF-61⅜, Cw-7¼, EFN-61⅜, EFs-61⅜, F-61⅜, Cx-7½, Cx-7¾, EF-6½, EF-6½, EF-6¾, BBC-35¾, BBC-35¾, BBC-36, BBC-36¼, BBC-36½, BBC-36¼, Cw-7½, Cw-7¾, FGF-61⅜	BB-36, CC-36	XYs-24, XYs-24½, XYN-24, XYN-24½, BBA-69¼	Y-25	AA-21, Y-24	E-61	F-61	BB-35, BB-37, CC-35, CC-37	K-69 NOTE: FOR CONT. OF FTG NO'S IN 100 SERIES SEE SCHED. BELOW.	K-66, K-67	QRR-62, RSS-62	LM-62, MN-62, NP-62, PQ-62, KL-62	S-62	K-69⅝	S-60½, S-61½, FF-46½, FF-47½, EE-45½, FF-50½, FF-51½	GH-10½	UV-56w, TU-56w, ST-56w, BC-63w, CD-63w, DE-63w, EF-63w, FG-63w, GH-63w, CCD-71, DDE-71, EEF-52	A-45½, A-46½, A-47½, A-48½, A-49½	DD-46½, DD-47½, DD-48½, DD-49½, DD-50½, DD-51½, DDE-46, DDE-47, DDX-52, EEF-47, J-59½, J-60½, J-61½, JJK-58⅝, KL-58⅝, KL-59¼, L-58⅝, L-59⅝, LM-58⅝, M-58⅝, MN-58⅝, N-58⅝, NP-58⅝, P-58⅝, PQ-58⅝, EEE-49, QN-QS-59½, DDX-49, EED-49½, EED-50, EED-50½, EED-51, EED-51½	G-18½, S-56½, S-57½, S-58½, S-59½, EE-39½, EE-42½, EE-19⅞, EE-33⅛, EE-20⅞, EE-34⅛, EE-21⅞, EE-35⅞, EE-22⅞, EE-36½, EE-23⅞, EE-37⅛, EE-24⅞, EE-40⅛, EE-25⅞, EE-41⅛, EE-26⅞, EE-43⅛, EE-27⅞, EE-44⅛, EE-28⅞, G-19½, EE-29⅞, G-15½, EE-30⅞, G-16½, EE-31⅞, G-17½	FF-49⅝	
75K	170K	65K	85K	105K	90K	108K	135K	160K	160K	60K	40K	180K	80K	40K	60K	50K	80K	90K	40K	60K	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)		
150K	480K	180K	230K	270K	190K	230K	440K	354K	354K	80K	70K	280K	110K	60K	80K	70K	100K	90K	60K	60K	TOTAL LOAD (IN KIPS)		
338 SEE SHT C-16	337 SEE SHT C-16	336 SEE SHT. C-16	335 SEE SHT C-16	334 SEE SHT C-16	333 SEE SHT C-16	332 SEE SHT C-16	331 SHT C-16	"174 CK	"173 CG	"172NN"	"171AD"	"170CR"	"169YY"	"168F"	"167F"	"166P"	"165S"	"164S"	"163F"	162 SEE PLAN SHT. C-8	TYPE		
SEE REMARKS	2'-6"	2'-2" (BBA-69¼), 2'-0" (OTHERS)	2'-6"	2'-6"	2'-8½"	2'-8½"	2'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	6'-6"	DIMENSION FROM FIN. 1ST FLOOR	SHAFT	
4'-6"φ	5'-0"φ	3'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	5'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	3'-0"φ	3'-0"φ	3'-0"φ	3'-6"φ	3'-6"φ	3'-0"φ	3'-0"φ	DIAMETER		
12-#8	14-#8	10-#8	10-#8	10-#8	10-#8	10-#8	14-#8	10-#8	10-#8	—	10-#8	16-#8	10-#8	8-#8	9-#8	8-#8	—	—	—	8-#8	VERT. REINF.		
#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	—	#5@12"	#5@12"	#5@12	#4@12"	#4@12"	#4@12"	—	—	—	#4@12"	TIES		
—	7'-0"φ	4'-6"φ	5'-0"φ	5'-6"φ	5'-0"φ	5'-6"φ	6'-6"φ	6'-6"φ	6'-6"φ	—	—	6'-6"	—	—	—	—	—	—	—	—	BELL DIAMETER		
12	15	15	15	15	12	12	15	12	12	15	15	12	12	12	12	15	12	12	12	12	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)		
2'-6½" (EF-61⅜, EF-61⅜, EFs-61⅜, CX-7¼, CX-7¼, CW-7¼, CW-7¼, F-61⅜, FGF-61⅜) 2'-0" (OTHERS) PROVIDE 8-#6 DWLS	PROVIDE 6-#6 DWLS.	PROVIDE 8-#6 DWLS	PROVIDE 4-#6 DOWELS	PROVIDE 6-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 6-#6 DOWELS	PROVIDE 4-#6 DOWELS	FUTURE LOAD = 55K INCL. PROVIDE 6-#6 SEE SHT C-35 FOR DET.	FUTURE LOAD = 55K INCL. PROVIDE 6-#6 SEE SHT C-35 FOR DET.	PROVIDE 4-#6 DOWELS		FUTURE LOAD = 40K INCL.	FOR DETAIL SEE SHT C-13 PROVIDE 4-#6 DOWELS				FOR AS BUILT CONDITION FOR COL. LINES 26% & 27% & 6% & 5% & SEE DETL 4 SHT C-18	FOR AS BUILT CONDITION SEE TH. COL. LINES SIZE 62½ ALONG COL. LINE 28½ SEE DET. C ON SHT. C-8		REMARKS		

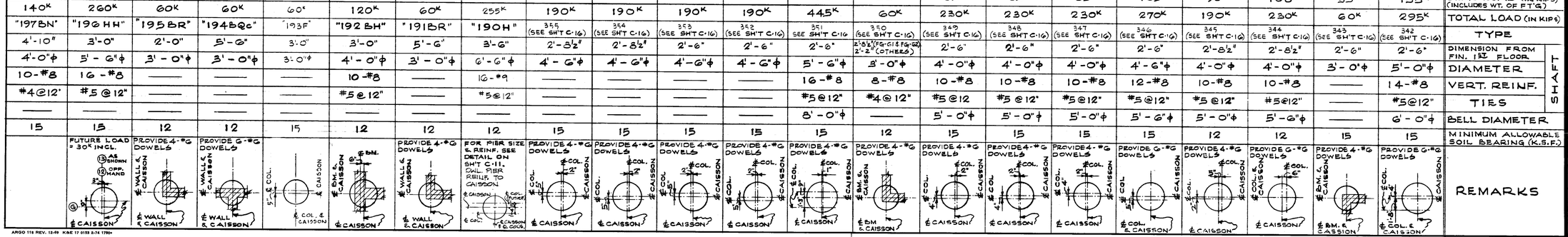
FOOTING SCHEDULE

COLUMN NUMBER																							
XN-23¾, XN-24¼, XN-24½, XN-24¾, Y-23¾, Y-24¼, Y-24½, Y-24¾, C-7½, C-7¾, F-6½, F-6¾, W-20¼, W-20½, W-20¾, W-21¼, W-21½, W-21¾, WX-20¼, WX-20½, WX-20¾, WX-21, WX-21¼, WX-21½, WX-21¾, YA-20¼, YA-20½, YA-20¾, YA-21, YA-21¼, YA-21½, YA-21¾, AA-20¼, AA-20½, AA-20¾, AA-21¼, AA-21½, AA-21¾, BB-35¼, BB-35½, BB-35¾, BB-36¼, BB-36½, BB-36¾, CC-35¼, CC-35½, CC-35¾, CC-36¼, CC-36½, CC-36¾, D-7¼, D-7½, D-7¾, E-6¼, E-6½, E-6¾, EF-6, EF-7w, EBC-35, BBC-37, Cx-7e, Cw-7e, Cx-8, Cw-8	FGF-62, EF6-61, EF-61, EFN-61, FGF-61, EF6-62, EF-62, EFN-62, A-69¼, E-61⅜, FG-61⅜	XYs-23½, XYs-25, XYN-23½, XYN-25	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS NOTE: FOR CONT. OF FTG NO'S IN 100 SERIES SEE SCHED. BELOW	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS	TRUCK DOCK LEVELER FD'N SUPPORT CAISSONS	BE-69½, BE-69⅜	VW-45, AA-44½, AA-43½, BBC-43, DD-43½, DD-44½, WX-45, XY-45, YA-45, AAB-45, BBC-45, CCD-45, DD-45½, CD-19, DE-19, EF-19, FG-19, BC-19,	K-58⅝	Q5-QN-58⅝, L-59¼, K-59¼, J-58⅝	AXA-22, AXA-22½, AXA-E6½, AXA-55w, EEF-36½, EEF-39w	GH-11	GH-10	J-59, J-60, J-61, K-59	COLUMN NUMBER		
55K	55K	40K	110K	70K	70K	40K	40K	40K	40K	60K	35K	135K	90K	40K	80K	80K	165K	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)		
95K	95K	50K	130K	90K	90K	60K	60K	60K	60K	60K	35K	135K	90K	50K	120K	120K	245K	TOTAL LOAD (IN KIPS)		
341 SEE SHT C-16	340 SEE SHT C-16	339 SEE SHT C-16	"189DD"	"188BQ"	"187S"	"186BGb"	"185S"	"184BGb"	"183S"	182 SEE PLAN SHT. C-2	"181A"	"180BH"	"179BG"	178 SEE PLAN ON SHT C-8 & C-16	"177M"	"176M"	"175BP"	TYPE		
2'-8½" (CC-7¼, C-7½, CX-7e, CW-7e, C-7¾, D-7¼, D-7½, D-7¾, CX-8, CW-8, 2'-0" (OTHERS)	3'-0" (A-69¼) 2'-8½ (ALL OTHERS)	2'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-0"	6'-0"	3'-0"	0'-8"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	DIMENSION FROM FIN. 1ST FLOOR	SHAFT	
3'-0"φ	3'-6"φ	3'-0"φ	4'-0"φ	3'-6"φ	3'-6"φ	3'-0"φ	3'-0"φ	3'-0"φ	3'-0"φ	3'-0"φ	3'-0"φ	4'-0"φ	3'-6"φ	4'-6"φ	4'-0"φ	4'-0"φ	4'-0"φ	DIAMETER		
—	9-#8	—	—	—	—	—	—	—	—	8-#8	—	—	—	12-#8	—	—	10-#8	VERT. REINF.		
—	#4@12"	—	—	—	—	—	—	—	—	#4@12"	—	—	—	#5@12"	—	—	#4@12"	TIES		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5'-6"φ	BELL DIAMETER		
15	12	15	12	12	12	12	12	12	15	12	12	12	12	12	12	12	12	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)		
PROVIDE 6-#6 DWLS	PROVIDE 6-#6 DWLS	PROVIDE 6-#6 DOWELS	FOR ℄ OF CAISSON SEE SHT C-8 & C-15 PROVIDE 8-#6 DOWELS	FOR ℄ OF CAISSON SEE SHT C-8 PROVIDE 6-#6 DOWELS (2 AT EA. END OF WALL & 2 AT THE MAT OF RETAINING WALL)	FOR ℄ OF CAISSON SEE SHT C-8 PROVIDE 4-#6 DOWELS	FOR ℄ OF CAISSON SEE SHT C-8 PROVIDE 6-#6 DOWELS (2 AT EA. END OF WALL AND 2 AT THE MAT OF RETAINING WALL)	FOR ℄ OF CAISSON SEE SHT C-8 PROVIDE 4-#6 DOWELS	FOR ℄ OF CAISSON SEE SHT C-9 PROVIDE 4-#6 DOWELS	FOR ℄ OF CAISSON SEE SHT C-9 PROVIDE 4-#6 DOWELS	PROVIDE 4-#7 DOWELS FOR DETAIL SEE SHT. C-10			PROVIDE 6-#6 DOWELS	PROVIDE 4-#6 DWLS	FUTURE LOAD = 25K INCL.	FUTURE LOAD = 25K INCL.		REMARKS		



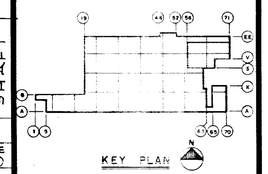
FOOTING SCHEDULE

COLUMN NUMBER																							
R-43 NOTE: SEE SHT. C-41 FOR CONTINUATION OF Nos 100 SERIES	G-10, G-11	JJJ-22⅛, JJJ-22⅛, KJJ-22⅛, WWW-42⅞, WWW-42⅞, VWV-42⅛, EFE-54⅜, FEE-54⅜, FEE-54⅜	EFE-54⅝, EFE-54⅝, JJK-22⅝, KJJ-22⅝, VWW-42⅝, VWV-42⅝	E-1½, E-2½, E-3½, E-4½, 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	EED-49, EED-52	KJJ-22⅝, JJK-22⅝, VWW-42⅝, VWV-42⅝, FEF-54⅝, FEF-54⅝	FF-44⅛, FF-44⅜	D-8 NOTE: FOR CONTINUATION OF FTG. Nos IN 300 SERIES SEE SHT. C-22	C-8	F-6,	E-6	Xs-25-XN-25	FG-61, FG-62, BBA-69	W-22	W-20	AA-20	W-21	E-62	F-62	XN-23½, Y-23½, WX-20, WX-22, YA-20, YA-22	Xs-24-XN-24	COLUMN NUMBER		
60K	145K	40K	40K	40K	120K	40K	80K	90K	90K	90K	90K	195K	35K	85K	85K	85K	105K	90K	108K	35K	135K	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)		
140K	260K	60K	60K	60K	120K	60K	255K	190K	190K	190K	190K	445K	60K	230K	230K	230K	270K	190K	230K	60K	295K	TOTAL LOAD (IN KIPS)		
"197BN"	"196HH"	"195BR"	"194BQc"	"193F"	"192BH"	"191BR"	"190H"	355 (SEE SHT C-16)	354 (SEE SHT C-16)	353 (SEE SHT C-16)	352 (SEE SHT C-16)	351 SEE SHT C-16	350 (SEE SHT C-16)	349 (SEE SHT C-16)	348 (SEE SHT C-16)	347 (SEE SHT C-16)	346 (SEE SHT C-16)	345 (SEE SHT C-16)	344 (SEE SHT C-16)	343 (SEE SHT C-16)	342 (SEE SHT C-16)	TYPE		
4'-10"	3'-0"	2'-0"	5'-6"	3'-0"	3'-0"	5'-6"	3'-6"	2'-8½"	2'-8½"	2'-6"	2'-6"	2'-6"	2'-8½" (FG-61 & FG-62) 2'-2" (OTHERS)	2'-6"	2'-6"	2'-6"	2'-6"	2'-8½"	2'-8½"	2'-6"	2'-6"	DIMENSION FROM FIN. 1ST FLOOR	SHAFT	
4'-0"φ	5'-6"φ	3'-0"φ	3'-0"φ	3'-0"φ	4'-0"φ	3'-0"φ	6'-6"φ	4'-6"φ	4'-6"φ	4'-6"φ	4'-6"φ	5'-6"φ	3'-0"φ	4'-0"φ	4'-0"φ	4'-0"φ	4'-6"φ	4'-0"φ	4'-0"φ	3'-0"φ	5'-0"φ	DIAMETER		
10-#8	16-#8	—	—	—	10-#8	—	16-#9	—	—	—	—	16-#8	8-#8	10-#8	10-#8	10-#8	12-#8	10-#8	10-#8	—	14-#8	VERT. REINF.		
#4@12"	#5@12"	—	—	—	#5@12"	—	#5@12"	—	—	—	—	#5@12"	#4@12"	#5@12	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	—	#5@12"	TIES		
—	—	—	—	—	—	—	—	—	—	—	—	8'-0"φ	—	5'-0"φ	5'-0"φ	5'-0"φ	5'-6"φ	5'-0"φ	5'-6"φ	—	6'-0"φ	BELL DIAMETER		
15	15	12	12	15	12	12	12	15	15	15	15	15	12	15	15	15	15	12	12	15	15	MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)		
	FUTURE LOAD = 30K INCL.	PROVIDE 4-#6 DOWELS	PROVIDE 6-#6 DOWELS		PROVIDE 6-#6 DOWELS	PROVIDE 4-#6 DOWELS	FOR PIER SIZE & REINF. SEE DETAIL ON SHT C-11. COL. PIER REINF. TO CAISSON	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 6-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 6-#6 DOWELS	PROVIDE 4-#6 DOWELS	PROVIDE 6-#6 DOWELS	REMARKS		



ARGO 118 REV. 12-69 KAE 17 0153 5-74 1780+

DATE	ISSUED FOR	APPROVAL	APPROVAL
2/28/77	MECH. U.S. REFER.		
3-23-77	PRIME MECH & ELECT. REF.		
3-21-77	CAISSON BIDS		
4-28-77	FOOTING & FOOR CONCRETE BID		



NOTE: ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-75	D.G.	AS BUILT	
85	4-8-77	E.K.		
70	8-1-77	W.A.		
60	7-18-77	A.C.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
38	6/7/77	A.C.		
24	5/25/77	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 DIVISION OF GENERAL MOTORS
GENERAL MOTORS CORPORATION 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

FOOTING SCHEDULE

SHEET TITLE

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

DATE: 4-28-77

DRAWN BY: R. NAGY

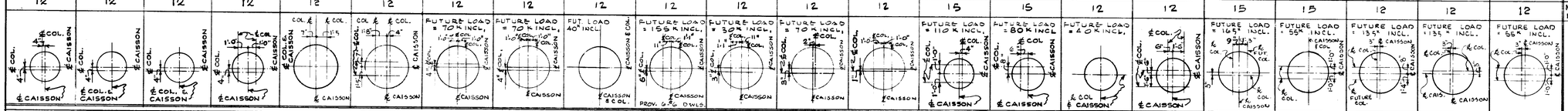
JOB CAPT.: E. KUCZYNSKI, A. CHU

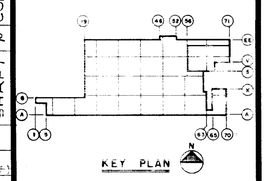
SHEET NUMBER: C-21

PROJECT NO. SHEET NO.

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	COLLAR: DIMENSION FROM FIN. 1st FLOOR	COLLAR: SIZE (DIAMETER x THICKNESS)	COLLAR: HORIZ. REINF. (EACH WAY - TOP)	COLLAR: DOWELS TO COLLAR	SHAFT: DIAMETER	SHAFT: VERT. REINF.	SHAFT: TIES	BELL DIAMETER	MINIMUM ALLOW. SOIL BEARING CAPACITY (K.S.F.)	REMARKS
DD-46	230K	460K	"322V"	3'-0"	6'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	7'-0"	12	
DD-48 DD-50	195K	360K	"321T"	3'-0"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-6"	12	
DD-51	250K	420K	"320T"	3'-0"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	
DD-47W-DD-47E	280K	500K	"319GG"	3'-0"	7'-0"φ x 3'-0"	10-#5	12-#8	4'-6"φ	12-#8	#5@12"	7'-6"φ	12	
G-55W G-55E C-55W C-55E	145K	290K	"318B"	2'-2"	5'-0"φ x 2'-6"	8-#5	9-#8	3'-6"φ	9-#8	#4@12"	6'-0"φ	12	
QN-56W, QN-56E, Q5-56E	130K	300K	"317L"	2'-2"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-6"φ	12	
CC-63W CC-63E	140K	225K	"316Q"	3'-0"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	5'-6"φ	12	
EE-63W EE-63E	100K	220K	"315Q"	3'-0"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	5'-6"φ	12	
EE-52	185K	355K	"314JJ"	3'-0"	5'-6"φ x 3'-0"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-6"φ	12	
EE-39W EE-39E	140K	245K	313 SEE SHT C-6	3'-0"	6'-0"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-0"φ	12	
B-63W B-63E	180K	290K	"312X"	3'-0"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	5'-6"φ	12	
FF-49	120K	260K	"311DD"	6'-6"	6'-0"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-0"φ	12	
S-56W S-56E	245K	545K	310FG	3'-0"	6'-0"φ x 2'-6"	8-#5	12-#8	4'-6"φ	12-#8	#5@12"	8'-0"φ	12	
Xs-19 XN-19	164K	380K	"309P"	3'-0"	6'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-0"φ	12	
HS-63W HN-63W	200K	380K	"308TT"	6'-6"	7'-0"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-6"φ	12	
EE-46	140K	245K	"307JJ"	3'-0"	6'-0"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	5'-6"φ	12	
HS-55W HN-55W HS-55E HN-55E	116K	390K	"306D"	2'-2"	6'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	
J-63W	170K	315K	"305CM"	6'-6"	6'-6" x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	6'-0"φ	15	
QN-62-Q5-62	190K	275K	"304PP"	6'-6"	6'-6"φ x 2'-6"	8-#5	8-#5	3'-6"φ	9-#8	#4@12"	5'-6"φ	15	
A-70	200K	300K	"303DC"	6'-10"	6'-0"φ x 2'-6"	8-#5	8-#5	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	
K-70	170K	330K	"302R"	6'-10"	6'-0"φ x 2'-6"	8-#5	8-#5	4'-0"φ	10-#8	#5@12"	6'-0"φ	12	
HN-70 HS-70	175K	280K	"301EE"	6'-10"	6'-0"φ x 2'-6"	8-#5	8-#5	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	

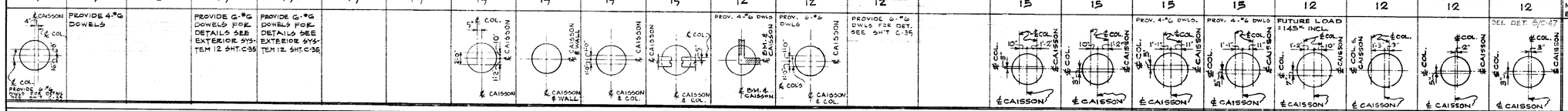




NOTE: ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	COLLAR: DIMENSION FROM FIN. 1st FLOOR	COLLAR: SIZE (DIAMETER x THICKNESS)	COLLAR: HORIZ. REINF. (EACH WAY - TOP)	COLLAR: DOWELS TO COLLAR	SHAFT: DIAMETER	SHAFT: VERT. REINF.	SHAFT: TIES	BELL DIAMETER	MINIMUM ALLOW. SOIL BEARING CAPACITY (K.S.F.)	REMARKS
HN-65, HS-65	210K	369 DG	6'-6"	7'-6" x 2'-6"	—	10-#5	10-#8	4'-0"φ	10-#8	#4@12"	5'-6"	15	PROVIDE 4-#6 DOWELS
QN-61, Q5-61	140K	368 SEE SH'T C-9	6'-6"	—	—	—	—	5'-0"φ	14-#8	#5@12"	—	15	
A-5'2 AB-5	100K	367 DP	3'-0"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	12	
QY-19'8, RY-19'8, SR5-61'8, RQR-61'8, QV-60'8, QV-61'4, QV-61'2, QV-61'3/4	70K	366 CJ	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	15	PROVIDE 6-#6 DWLS FOR DETAILS SEE EXTERIOR SYSTEM 12 SHT. C-35
QY-19 RY-19 SR5-62 RQR-62 QN-Q5-60'8 QN-Q5-61'4 QN-Q5-61'2 QN-Q5-61'3/4 QV-62	80K	365 CJ	6'-6"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	15	PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 12 SHT. C-35
RX-19'8, SSR-61'8, RRQ-61'8	40K	"364 NN"	6'-6"	—	—	—	—	5'-0"φ	14-#8	#4@12"	—	15	
QX-19'8, QX-19'8, SSS-61'8	40K	363 CE @ 655-512 363 DG (OTHERS)	6'-6"	—	—	—	—	4'-0"φ	10-#8	#4@12"	5'-6"	15	
QN-19, Q5-19	150K	"362 DG"	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	PROV. 4-#6 DWLS
AB-5'2	60K	361 BG	3'-0"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	12	PROV. 6-#6 DWLS
Q5-60, Q-60	160K	360 SEE SH'T C-9	3'-0"	—	—	—	—	5'-0"φ	14-#8	#5@12"	—	15	
L-60	155K	359 SEE SH'T C-9	3'-0"	—	—	—	—	4'-0"φ	10-#8	#4@12"	5'-6"	15	
PQQ-58'8 PQQ-59'8	30K	358 SEE PLAN SHT. C-16	2'-2"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	
QU-58'8, Q5-58'8 QN-59'8, Q5-59'8	60K	"357" SEE SHT. C-16	3'-0"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	12	
KY-61 2 KY-61 7/8 KX-61 3/4	65K	356 AN	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	
NOTE: FOR FT'G NO'S 331 THRU 355 SEE SHT C-21													
F-7W-F-7E	100K	210K	330 SEE SH'T C-16	2'-6"	5'-6"φ x 2'-6"	8-#5	9-#8	3'-6"φ	9-#8	#4@12"	5'-0"φ	15	PROV. 4-#6 DWLS.
E-7W-E-7E	100K	210K	329 SEE SH'T C-16	2'-6"	5'-6"φ x 2'-6"	8-#5	9-#8	3'-6"φ	9-#8	#4@12"	5'-0"φ	15	PROV. 4-#6 DWLS.
D-7W-D-7E	130K	295K	328 SEE SH'T C-16	2'-8 1/2"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	5'-6"φ	15	
C-7W-C-7E	130K	295K	327 SEE SH'T C-16	2'-8 1/2"	5'-6"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	5'-6"φ	15	PROV. 4-#6 DWLS
FF-47W-FF-47E	180K	420K	"326BE"	3'-0"	7'-0"φ x 3'-0"	10-#5	12-#8	4'-6"φ	12-#8	#5@12"	7'-6"φ	12	FUTURE LOAD = 145K INCL.
EE-47W-EE-47E	205K	335K	"325BF"	3'-0"	6'-0"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	
DD-49	245K	400K	"324Z"	3'-0"	6'-0"φ x 2'-6"	8-#5	10-#8	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	
DD-52	343K	580K	"323V"	3'-0"	6'-0"φ x 2'-6"	8-#5	12-#8	4'-6"φ	12-#3	#5@12"	8'-6"φ	12	SEE DET. 5/C-47



NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
85	9-9-77	E.K.		
70	8-1-77	W.A.		
60	7-18-77	A.C.		
61	7-7-77	E.K.		
29	6/10/77	E.K.		
38	6/7/77	A.C.		
24	5/25/77	E.K.		

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — REGISTERED — STATE — NUMBER — DATE

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

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. B.C. PROJECT NUMBER: 4500

DATE: 4-28-77

DRAWN BY: R. NAGY, R. ALLEN, F. BROSKY

JOB CAPT.: E. KUCZYNSKI, A. CHU

SHEET NUMBER: C-22

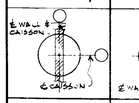
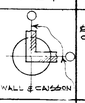
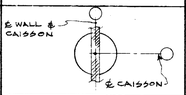
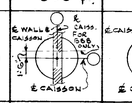
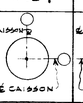
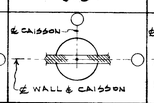
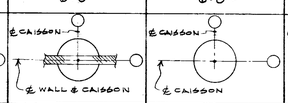
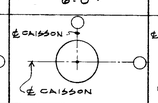
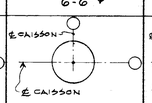
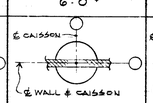
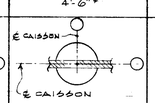
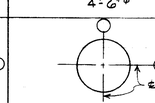
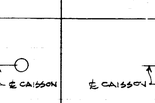
FOOTING SCHEDULE

COLUMN NUMBER	DEAD LOAD (IN KIPS) (INCLUDES WT. OF FT'G)	TOTAL LOAD (IN KIPS)	TYPE	COLLAR: DIMENSION FROM FIN. 1st FLOOR	COLLAR: SIZE (DIAMETER x THICKNESS)	COLLAR: HORIZ. REINF. (EACH WAY - TOP)	COLLAR: DOWELS TO COLLAR	SHAFT: DIAMETER	SHAFT: VERT. REINF.	SHAFT: TIES	BELL DIAMETER	MINIMUM ALLOW. SOIL BEARING CAPACITY (P.S.F.)	REMARKS
R-42	60K	386 BNA	4'-10"	—	—	—	—	4'-0"φ	10-#8	#4@12"	—	15	(2) INDICATES 2 CAISSONS PER EACH FTG. LINE - 1 CAISSON ON EACH SIDE OF COL LINE
EE-21'2; EE-22'2, EE-23'2, EE-24'2, EE-25'2, EE-26'2, EE-27'2, EE-28'2, EE-29'2, EE-30'2, EE-31'2, EE-32'2, EE-33'2, EE-34'2, EE-35'2, EE-36'2, EE-37'2, EE-38'2, EE-90'2, EE-91'2, EE-92'2	20K	385 (SEE DETAIL "C" ON SHT C-8)	3'-0"	—	—	—	—	4'-0"φ	10-#8	#4@12"	—	12	
JJH-62 JJH-61'8 J-61'8	65K	384 CN	6'-6"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	12	PROV. 6-#6 DWLS FOR DET. SEE SHT C-35.
A-69	120K	383 DT	3'-0"	—	—	—	—	4'-6"φ	12-#8	*5@12"	6'-0"φ	12	FUTURE LOAD = 70K INCL. PROVIDE 6-#6 DWLS.
FFX-48'3	60K	382 UU	6'-6"	—	—	—	—	3'-6"φ	9-#8	*4@12"	—	12	PROVIDE 6-#6 DWLS. FOR DETAILS SEE SHT. C-35
A-55W A-55E	127K	381 DS	3'-0"	6'-0" x 2'-6"	8-#5	10-#8	—	4'-0"φ	10-#8	#5@12"	7'-0"φ	12	PROVIDE 6-#6 DOWELS
A-22	158K	380 SEE SH'T C-16	3'-0"	—	—	—	—	4'-6"φ	12-#8	#5@12"	5'-6"	15	PROV. 6-#6 DWLS
A-22'2 A-54'2 EE 38'2	110K	379 SEE SHT. C-6 & C-16	3'-0"	—	—	—	—	4'-0"φ	10-#8	#5@12"	5'-6"	15	PROV. 6-#6 DWLS
KY-61	65K	378 DK	6'-6"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	12	PROVIDE 6-#6 DOWELS. FOR DETAIL SEE SH'T C-35
L-60'3	53K	377 SEE SH'T C-9	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	PROVIDE 6-#6 DOWELS SEE EXTERIOR SYSTEM 13 SH'T C-35 FOR DWLS DET.
L-60'3 L-60'8/8 QN-Q5-60'3	95K	376 SEE SH'T C-9	6'-6"	—	—	—	—	3'-6"φ	9-#8	#4@12"	—	12	PROVIDE 6-#6 DOWELS SEE EXTERIOR SYSTEM 13 SHT. C-35 PROVIDE 6-#6 DWLS FOR DETAIL (FOR L-60'8/8 ONLY)
K-61'4, K-66'4, K-65'4, K-66'4, K-65'4, K-65 HR-65, HJH-63W, JHJ-63W J-62'4, J-62'4, JKJ-62 KJK-62, KY-61'2 KY-61'4, KLK-60'8, KL-60'3/8 LKL-60'8/8, K-65'8, K-65'3/8 FF-49'3/8	65K	375 CJ	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 13 SHT. C-35
K-69'8	85K	374 YY	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	13	PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 13 SHT. C-35.
KT-69'8, KT 60'3, KT-69, KT-67'2, KT-67'4, KT-67, KT-66'4, KT-66'2, KT-66'4, KT-66, KT-65'4, KT-65'4, K5-65'8, JK-65'8, JR-65'8, J-65'8, J-65'8, J-65'8, HJ-65'8, HR-65'8, HN-65'8, HHJ-62'8, HJH-62'8, HJ-62'8, JHJ-62'8, JJH-62'4, JKJ-61'8, JK-61'8, KJK-61'8, KX-61'4, KX-61'2, KX-61'4, KX-60'3, KLK-60'3, KL-60'3, LKL-60'3, ~~QY-60'3~~ KT-69'8 KT-65'8, FFX-49'3/8, FFX-49'3	65K	373 (SEE REMARKS)	6'-6"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	FOR CAISSON TYPE & LOCATION SEE DETAIL PLANS SHTS. C-6 & C-8. PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 13 SHT. C-35.
AX-70, AY-70, BX-70, BY-70, CX-70, CY-70, DX-70, DY-70, EX-70, EY-70, FX-70, FY-70, GX-70, GY-70, HX-70, HY-70, JX-70, JY-70, BV-70, CV-70, DV-70, EV-70, FV-70, GV-70, HV-70, JV-70, KY-70, BW-70, CW-70, DW-70, EW-70, FW-70, GW-70, HW-70, JW-70, KX-70	85K EACH	372 DC FOR AX-70 372 DB & QQ FOR OTHERS	6'-10"	—	—	—	—	3'-6"φ	9-#8 (IN EACH)	#4@12" (IN EACH)	—	13	(2) INDICATES 2 CAISSONS PER EACH FOOTING LINE, 1 CAISSON ON EACH SIDE OF COLUMN LINE "70". AX-70, - SEE TYPE DC KX-70, - SEE TYPE A. PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 11 ON SH'T C-35.
AW-70	50K	371 DC	6'-10"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 10 SHT. C-35
AW-69'8, AW-69'3 AW-69'3, AXY-69'8 AXY-69'3, AXY-69'3 BBA-69'3 BBA-69'3	75K	370 CC & DC	6'-10"	—	—	—	—	3'-0"φ	8-#8	#4@12"	—	12	TYPE DC - FOR LINE 69'8 ONLY. PROVIDE 6-#6 DOWELS FOR DETAILS SEE EXTERIOR SYSTEM 10 SHT. C-35.

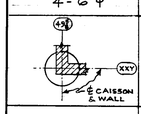
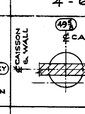
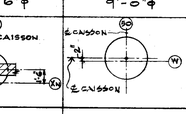
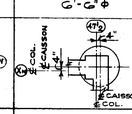
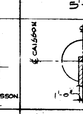
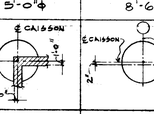
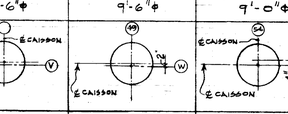
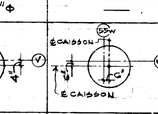
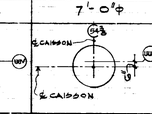
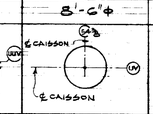
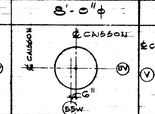
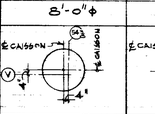
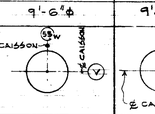
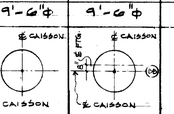
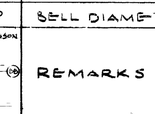
ARGO 118 REV. 12-69 KBE 17 0193 2-74 1750M

PROJECT NO. SHEET NO.

PIER AND FOOTING SCHEDULE (PLENUM AREA)

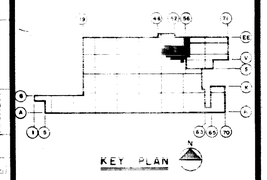
XXY-57, ABA-57, YY-57, DEX-57, XXY-57, AAA-57, XX-57, DDX-57, CCD-57, DDE-57, CCX-57, BBB-57, BAB-57, EEX-57	YYA-55¾, XXX-50¼, WWX-55W, WW-48¾, YY-48	CCC-55¾, YYA-56¼, CC-55¾, AA-56¼, CCD-55¾, AAA-56¼, DD-55¾, BB-56¼, DDE-55¾, CCC-56¼, EE-55¾, CC-56¼, AAA-55¾, CCD-56¼, BA-55¾, DD-56¼, DDE-56¼, EE-56¼	BBB-47½, XXY-47E, AAA-47½, BBB-47½, WWX-47½, W-47½, VWW-47½, VVW-55½, W-56¼	V-51½, V-52½, V-53½, V-48½, V-49½, V-50½	XN-50½, XN-51½, XN-52½, XN-53½, XN-54½, XN-55½	W-52½, W-53½, W-54½, WWX-52, WWX-52½, WWX-53, WWX-53½, WWX-54, WWX-54½, XXY-51, XXY-51½, XXY-52, XXY-52½, XXY-53, XXY-53½, XXY-54, XXY-54½, XXY-55W, XXY-55½, XXY-50½, WWX-50½, WWX-51, WWX-51½, W-48½, W-49½, W-51½	YYA-48½, YYA-49, YYA-49½, YYA-50, YYA-50½, YYA-51, YYA-51½, YYA-52, YYA-52½, YYA-53, YYA-53½, YYA-54, YYA-54½, YYA-55W, YYA-55½	AA-48½, AA-49½, AA-50½, AA-51½, AA-52½, AA-53½, AA-54½, AA-55½	XXY-49½, AAA-48½, AAA-49, AAA-49½, AAA-50, AAA-50½, AAA-51, AAA-51½, AAA-52, AAA-52½, AAA-53, AAA-53½, AAA-54, AAA-54½, AAA-55W, AAA-55½, X_N-49½	BB-50½, BB-51½, BB-52½, BB-53½, BB-54½, BB-55½, Y-48½, Y-49½, Y-50½, Y-51½, Y-52½, Y-53½, Y-54½, Y-55½	CCC-49, CCC-49½, CCC-50, CCC-50½, CCC-51, CCC-51½, CCC-52, CCC-52½, CCC-53, CCC-53½, CCC-54, CCC-54½, CCC-55, CCC-48½, CCC-48½, CCC-48¾, CCC-47¾, CCC-49¼, CCC-50¾, CCC-51¼, CCC-52¼, CCC-53¼, CCC-53¾, CCC-54¼, CCC-54¾, CCC-55W	XX-50½, XX-51, XX-51½, XX-52, XX-52½, XX-53, XX-53½, XX-54, XX-54½, XX-55W, XX-55½, XX-56W, WW-52, WW-52½, WW-53, WW-53½, WW-54, WW-54½, WW-55W, WW-55½, WW-56W, XXY-56W, XYY-56W, XYY-56¼, XXY-56¼, XX-56¼, WW-49, W-49½, WW-50, WW-50½, WW-51, WW-51½, WWX-56W, WWX-56¼, WXX-56¼	YY-48½, YY-49, YY-49½, YY-50, YY-50½, YY-51, YY-51½, YY-52, YY-52½, YY-53, YY-53½, YY-54, YY-54½, YY-55W, YY-55½, YY-56W, YYA-56W, AAA-56W, BBB-56W, CCC-56W, CCD-56W, DDE-56W	COLUMN NUMBER
414CX	413BQa	412BY	411AS	410AS	409BY	408BY	407CD	406AV	405BD OR AV	404BY	403CY	402AY	401AY	TYPE
—	—	—	—	—	—	—	—	—	—	—	—	—	—	DEAD LOAD (KIPS) (FROM STEEL 1ST FLR. COLUMN)
—	—	—	—	—	—	—	—	—	—	—	—	—	—	LIVE LOAD (KIPS) (FROM STEEL 1ST FLR. COLUMN)
65	64	61	40	30	105	115	110	85	80	105	35	45	65	D.L. (KIPS) (FROM STEEL 1ST FLR. COLUMN)
55	87	102	55	45	110	95	95	125	120	105	50	65	80	L.L. (KIPS) (FROM STEEL 1ST FLR. COLUMN)
120	151	163	95	75	215	210	205	210	200	210	85	110	145	TOTAL LOAD TO CONCRETE COL. (KIPS) (FROM STEEL 1ST FLR. COLUMN)
2-12"x16"	12"x12"	2-12"x12"	26"x16"	26"x16"	2-12"x12"	2-12"x12"	26"x12"	18"x18"	18"x18"	2-12"x12"	2-12"x16"	18"⌀	20"⌀	SIZE (WIDTH x LENGTH) (COLUMN OR PIER)
8-#8	4-#6	8-#6	8-#8	8-#8	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#8	8-#6	8-#7	VERT. REINF. (COLUMN OR PIER)
#3@12" 2/SET	—	#3@12" 2/SET	#4@12" 2/SET	#4@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@9" o.c.	#3@9" o.c.	TIES (COLUMN OR PIER)
65	84	116	125	115	90	90	60	85	110	90	90	40	55	D.L. (KIPS) (FROM PLENUM)
35	69	72	30	25	100	100	75	95	125	100	15	45	60	L.L. (KIPS) (FROM PLENUM)
140	160	177	180	155	210	215	180	180	205	205	135	95	135	TOTAL DEAD LOAD (INCL. WT. OF FTG.) KIPS)
230	316	351	265	225	420	410	350	400	450	410	200	205	275	TOTAL LOAD TO FTG (KIPS)
8-#8	4-#6	8-#6	8-#8	8-#8	8-#6	8-#6	8-#6	8-#6	8-#6	8-#6	8-#8	8-#6	8-#7	DOWELS TO COL.
13'-6"	13'-4"	13'-4"	13'-6" @ W-56¼ 14'-6" @ BBB-47½ 14'-0" OTHERS 14'-9" @ VWV-47½	14'-9"	13'-4"	13'-4"	13'-4"	13'-4"	13'-4"	13'-4"	14'-6"	13'-6" @ WW-56W 13'-4" OTHERS	13'-4"	DIM. FROM 1ST FL. TO TOP OF COLLAR OR SHAFT
—	—	—	—	—	—	—	—	—	—	—	—	—	—	SIZE (DIAM. x THICK.) (COLLAR)
—	—	—	—	—	—	—	—	—	—	—	—	—	—	HORIZ. REINF. TOP EA. W. (COLLAR)
—	—	—	—	—	—	—	—	—	—	—	—	—	—	DOWELS TO COLLAR
3'-0"⌀	3'-0"	3'-0"⌀	3'-0"⌀	3'-0"⌀	3'-0"⌀	3'-0"⌀	3'-0"⌀	4'-0"⌀	4'-0"⌀	3'-0"⌀	3'-0"⌀	3'-0"⌀	3'-0"⌀	DIAMETER (SHAFT)
8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	10-#8	10-#8	8-#8	8-#8	8-#8	8-#8	VERT. REINF. (SHAFT)
#3@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12" o.c.	#4@12 o.c.	#4@12" o.c.	#4@12" o.c.	#4@12" o.c.	TIES (SHAFT)
4'-6"⌀	5'-6"⌀	6'-0"⌀	5'-0"⌀	4'-6"⌀	6'-6"⌀	6'-0"	6'-0"⌀	6'-0"⌀	6'-6"⌀	6'-0"⌀	4'-6"⌀	4'-6"⌀	5'-0"⌀	BELL DIAMETER
														REMARKS
3'-6"	4'-6"	4'-6"	4'-0"	3'-6"	5'-0"	5'-0"	4'-6"	5'-0"	5'-0"	5'-0"	3'-6"	3'-6"	4'-0"	ALTERNATE NO. 1

PIER AND FOOTING SCHEDULE (PLENUM AREA)

XXY-49⅝	XN-49⅝	W-50, W-51, W-52, W-53, W-54,	XN-47½	V-47½ CCC-47½	V-51 V-52 V-53 V-48 V-49 V-50	W-49	V-54	UUV-55W	UUV-54⅜	UV-54⅜	UV-55W	V-54⅜	V-55W	AA-54 AA-55W	BB-50 BB-51 BB-52 BB-53 BB-54 BB-55W	COLUMN NUMBER
430BXGa	429DQ	428AT	427CE	426BZ	425AM	424AT	423AL	422CT	421CF	420CV	419BX	418CA	417AK	416AF	415AT	TYPE
—	—	285	—	—	238	285	245	65	65	105	150	95	270	285	285	DEAD LOAD (KIPS) (FROM STEEL 1ST FLR. COLUMN)
—	—	285	—	—	276	285	245	35	35	60	100	80	240	285	285	LIVE LOAD (KIPS) (FROM STEEL 1ST FLR. COLUMN)
55	55	55	75	45	30	105	35	20	35	45	35	60	35	85	105	D.L. (KIPS) (FROM STEEL 1ST FLR. COLUMN)
50	50	80	105	65	45	105	65	30	50	35	20	80	55	125	105	L.L. (KIPS) (FROM STEEL 1ST FLR. COLUMN)
105	105	705	180	110	589	780	590	150	185	245	305	315	600	780	780	TOTAL LOAD TO CONCRETE COL. (KIPS) (FROM STEEL 1ST FLR. COLUMN)
12"x12"	16"x12"	28"x42" @ W-50 & 51 28"x42" OTHERS	24"x31"	SEE FTG. DETAIL SHT. C-15	28"x40"	28"x41"	35"x38"	27"x26"	27"x26"	36"x25"	29"x25"	36"x25"	30"x34"	38"x44"	30"x42"	SIZE (WIDTH x LENGTH) (COLUMN OR PIER)
4-#7	6-#7	12-#9	10-#8	8-#7	12-#8	10-#8	14-#8	8-#8	8-#8	8-#8	8-#8	8-#8	12-#8	14-#9	14-#8	VERT. REINF. (COLUMN OR PIER)
#3@12"	#3@12" 2/SET	#4@12" 4/SET	#4@12 4/SET	#3@12" 2/SET	#4@12" 3/SET	#4@12" 3/SET	#4@12" 4/SET	#4@12" 2/SET	#4@12" 2/SET	#4@12" 2/SET	#4@12" 2/SET	#4@12" 2/SET	#4@12" 4/SET	#4@12" 4/SET	#4@12" 4/SET	TIES (COLUMN OR PIER)
65	65	100	125	80	115	97	225	205	255	445	325	220	305	85	90	D.L. (KIPS) (FROM PLENUM)
40	40	50	75	30	25	75	40	20	25	45	30	90	40	95	100	L.L. (KIPS) (FROM PLENUM)
130	130	485	245	150	404	525	555	315	390	630	550	410	650	495	520	TOTAL DEAD LOAD (INCL. WT. OF FTG.) KIPS)
220	220	900	425	235	750	990	905	400	500	770	700	660	985	1000	1010	TOTAL LOAD TO FTG (KIPS)
4-#7	6-#7	12-#9	10-#8	8-#7	16-#9	10-#9	14-#9	8-#8	8-#8	8-#8	8-#8	8-#8	12-#8	14-#9	14-#8	DOWELS TO COL.
13'-4"	13'-4"	13'-4"	14'-0"	14'-6" @ CCC-47½ 14'-9" @ V	14'-9"	13'-4"	14'-9"	14'-6"	14'-6"	20'-6"	20'-6"	20'-6"	20'-6"	13'-4"	13'-4"	DIM. FROM 1ST FL. TO TOP OF COLLAR OR SHAFT
—	—	—	—	—	—	—	—	—	—	6'-6"⌀ x 2'-6"	6'-6"⌀ x 2'-6"	—	7'-6"⌀ x 2'-6"	—	—	SIZE (DIAM. x THICK.) (COLLAR)
—	—	—	—	—	—	—	—	—	—	9-#5	9-#5	—	9-#5	—	—	HORIZ. REINF. TOP EA. W. (COLLAR)
—	—	—	—	—	—	—	—	—	—	14-#8	14-#8	—	14-#8	—	—	DOWELS TO COLLAR
3'-0"	3'-0"	5'-0"⌀	4'-6"⌀	3'-0"⌀	5'-0"⌀	5'-0"⌀	5'-6"⌀	5'-0"⌀	5'-0"⌀	5'-0"⌀	5'-0"⌀	6'-0"⌀	5'-0"⌀	5'-6"⌀	5'-6"⌀	DIAMETER (SHAFT)
8-#8	8-#8	12-#9	12-#8	9-#8	14-#8	14-#8	14-#9	16-#8	14-#8	14-#8	14-#8	20-#9	14-#8	16-#9	16-#9	VERT. REINF. (SHAFT)
#3@12"	#3@12"	#5@12"	#5@12"	#4@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	TIES (SHAFT)
4'-6"⌀	4'-6"⌀	9'-0"⌀	6'-0"⌀	5'-0"⌀	8'-6"⌀	9'-6"⌀	9'-0"⌀	—	7'-0"⌀	8'-6"⌀	8'-0"⌀	8'-0"⌀	9'-6"⌀	9'-6"⌀	9'-6"⌀	BELL DIAMETER
																REMARKS
3'-6"	3'-6"	7'-0"	5'-0"	4'-0"	6'-6"	7'-6"	7'-0"	5'-0"	5'-6"	6'-6"	6'-6"	6'-0"	7'-6"	7'-6"	7'-6"	ALTERNATE NO. 1

MINIMIUM ALLOWABLE SOIL BEARING CAPACITY = 15 K.S.F. (TYPICAL @ PLENUM AREA)

DATE	ISSUED FOR	APPROVAL	APPROVAL
2/22/77	MECH. U.G. REF.		
3-23-77	PRIMS MECH & ELECT REF.		
3-21-77	CAISSON BIDS		
4-28-77	CONCRETE PLENUM BIDS		
4-28-77	FIRST FLOOR CONCRETE BIDS		



NOTE: ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COL. ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
B.C.#38	7-21-77	A.C.		
44	7-15-77	A.C.		
61	7-7-77	E.K.		
58	6/7/77	A.C.		
24	5/25/77	E.K.		
P.C.28	5/20/77	E.K.		
P.C.17	5/10/77	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 DIVISION OF GENERAL MOTORS CORPORATION

485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

ARCHITECTS ENGINEERS CONSULTANTS

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P.E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY ALLEN

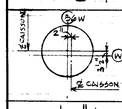
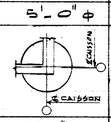
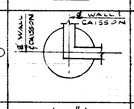
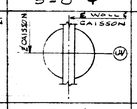
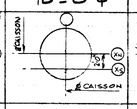
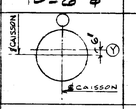
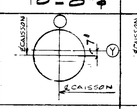
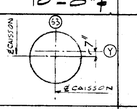
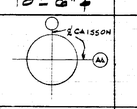
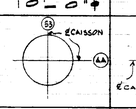
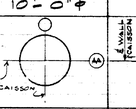
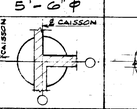
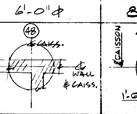
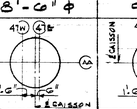
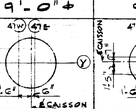
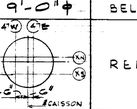
JOB CAPT. KUCZYNSKI CHU

C-23 SHEET NUMBER

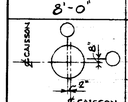
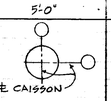
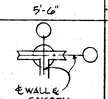
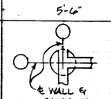
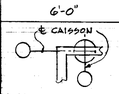
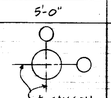
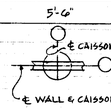
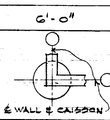
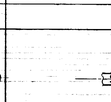
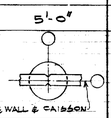
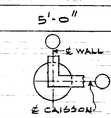
ARGO 118 REV. 12-69 K&E 17 0153 2-74 1730+

PROJECT NO. SHEET NO.

PIER AND FOOTING SCHEDULE (PLENUM AREA)

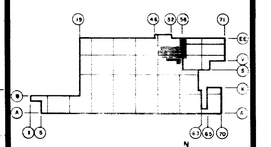
W-56W	VVW-56W	UUV-54	UV-54 UVX-54	XN-X5-50 XN-X5-51 XN-X5-52 XN-X5-53 XN-X5-54 XN-X5-55W	Y-48 Y-49	Y-50 Y-51 Y-52	Y-53 Y-54 Y-55W	AA-48 AA-49	AA-53	AA-50 AA-51 AA-52	VVW-55W	YYA-48	AA-47W-47E	Y-47W-47E	XN-X5-47W-47E	COLUMN NUMBER
446 AH	445 DR	444 BR	443 BY	442 AU	441 AT	440 AT	439 AT	438 AF	437 AF	436 AF	435 CQ	434 CB	433 AR	432 AW	431 AQ	TYPE
150	—	—	—	312	377	329	308	377	308	329	—	—	251	251	244	DEAD LOAD (KIPS) — FROM 1ST FLR COLUMN
186	—	—	—	268	473	431	362	473	362	431	—	—	294	294	326	LIVE LOAD (KIPS) — FROM 1ST FLR COLUMN
55	85	15	45	105	105	105	105	85	85	85	55	83	45	60	45	D. L. (KIPS) — FROM 1ST FLR COLUMN
55	65	25	65	110	105	105	105	125	125	125	55	83	60	90	65	L. L. (KIPS) — FROM 1ST FLR COLUMN
446	150	40	110	795	1060	970	880	1060	880	970	110	166	650	695	680	TOTAL LOAD TO CONCRETE COL. (KIPS) — FROM 1ST FLR COLUMN
54"×42"	16"×16"	SEE FTG DET.	2-16"×12"	26"×60"	36"×44"	34"×44"	32"×44"	44"×48"	40"×40"	42"×46"	16"×16"	26×12"	48"×30"	53"×30"	48"×48"	SIZE (WIDTH × LENGTH) — COLUMN OR PIER
16-#9	8-#8	8-#7	8-#8	16-#8	14-#9	12-#9	12-#9	16-#9	14-#9	14-#9	8-#8	8#6	12-#9	12-#9	20-#9	VERT. REINF. — COLUMN OR PIER
#3@12" 4/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#4@12" 5/SET	#4@12" 4/SET	#4@12" 4/SET	#4@12" 4/SET	#4@12" 5/SET	#4@12" 4/SET	#4@12" 4/SET	#3@12" 2/SET	#3@12 2/SET	#4@12" 4/SET	#4@12" 4/SET	#4@12" 6/SET	TIES — COLUMN OR PIER
140	80	45	75	90	90	90	90	85	85	85	140	71	80	100	80	D. L. (KIPS) — FROM BASEMT
30	30	15	40	100	100	100	100	95	95	95	30	79	30	55	30	L. L. (KIPS) — FROM BASEMT
387	180	75	135	552	622	564	543	607	528	549	210	178	446	471	420	TOTAL DEAD LOAD (INCL. WT. OF FTG. KIPS) — FROM BASEMT
636	275	115	240	1030	1300	1200	1110	1300	1110	1200	295	340	830	910	841	TOTAL LOAD TO FTG (KIPS) — FROM BASEMT
16-#9	8-#8	8-#7	12-#7	16-#8	14-#9	12-#9	12-#9	16-#9	14-#9	14-#9	8-#8	8#6	12-#9	14-#9	20-#9	DOWELS TO COL.
13'-6"	14'-0"	14'-0"	14'-0"	13'-4"	13'-4"	13'-4"	13'-4"	14'-0" @ AA-48 13'-4" @ AA-49	13'-4"	13'-4"	14'-0"	13'-4"	14'-0"	14'-0"	14'-0"	DIM. FROM 1ST FL. TO TOP OF COLLAR OR SHAFT
—	—	—	—	7'-0"φ × 2'-6"	—	—	—	—	—	—	—	—	6'-6"φ × 2'-6"	6'-0"φ × 2'-6"	7'-0"φ × 2'-6"	SIZE (DIAM. × THICK) — COLLAR
—	—	—	—	8-#5	—	—	—	—	—	—	—	—	8-#5	8-#5	8-#5	HORIZ. REINF. TOP E.W. — COLLAR
—	—	—	—	16-#9	—	—	—	—	—	—	—	—	16-#9	16-#9	16-#9	DOWELS TO COLLAR
6'-0"φ	3'-6"φ	4'-0"φ	3'-0"φ	5'-6"φ	6'-0"φ	5'-6"φ	5'-6"φ	6'-0"φ	5'-6"φ	5'-6"φ	3'-6"φ	3'-0"φ	5'-6"φ	5'-6"φ	5'-6"φ	DIAMETER — SHAFT
18-#9	9-#8	10-#8	9-#8	16-#9	18-#9	16-#9	16-#9	18-#9	16-#9	16-#9	9-#8	8#8	16-#9	16-#9	16-#9	VERT. REINF. — SHAFT
#5@12"	#4@12"	#4@12"	#4@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#4@12"	#4@12	#5@12"	#5@12"	#5@12"	TIES — SHAFT
7'-6"φ	5'-0"φ	—	5'-0"φ	10'-0"φ	10'-6"φ	10'-0"φ	10'-0"φ	10'-6"φ	10'-0"φ	10'-0"φ	5'-6"φ	6'-0"φ	8'-6"φ	9'-0"φ	9'-0"φ	BELL DIAMETER
																REMARKS
6'-0"φ	4'-0"φ	3'-6"φ	4'-0"φ	7'-6"φ	8'-6"φ	8'-0"φ	8'-0"φ	8'-6"φ	8'-0"φ	8'-0"φ	4'-0"φ	4'-6"φ	7'-0"φ	7'-0"φ	7'-0"φ	ALTERNATE No. 1

PIER AND FOOTING SCHEDULE (PLENUM AREA)

Y-56W	WWX-55½, WXX-55½ WXX-56W				Y-55⅓	YY-47⅞, XXY-49⅜ WXW-48⅜, BBB-49¾	YYA-47⅞	WXX-56⅝ WWX-56⅝ WW-56⅝ WW-56¼	CC-56⅝ CCC-56⅝ YYA-56⅝ AA-56⅝	Y-47⅞ W-48⅜	VWV-55W XXX-50 DEX-56⅝ EEX-56⅝ DDX-56⅝ CCX-56⅝ BBB-56⅝ BAB-56⅝ ABA-56⅝ YY-56⅝ XYY-56⅝	XX-56⅝ WXW-48¾ BB-52¾ BB-54⅝ YYA-52¾ Y-54⅜ XXY-52¾ XN-54⅜ W-54⅜ YY-56¼ BBB-56¼	BBB-55⅔ BAA-55⅔ XXY-50 XWW-55W XYX-55⅔ WWX-52⅞	EE-56⅝, Y-56⅝ DDE-56⅝ DD-56⅝ CCD-56⅝ BB-56⅝ AAA-56⅝ XXY-56⅝	XN-56⅝ XXY-55⅔ BB-49¾ BBB-50⅜ Y-56¼ WWX-48⅜	COLUMN NUMBER
457 EA	456 AY				455 BQ	454 BQ	453 BL	452 AY	451 BY	450 DQ		449 CB	448 BY	447 BGQ	TYPE
171	—				—	—	—	—	—	—		—	—	—	DEAD LOAD (KIPS) — FROM 1ST FLR COLUMN
165	—				—	—	—	—	—	—		—	—	—	LIVE LOAD (KIPS) — FROM 1ST FLR COLUMN
53	50				45	65	95	55	75	105		65	65	60	D. L. (KIPS) — FROM 1ST FLR COLUMN
86	85				72	80	95	80	95	105		80	80	72	L. L. (KIPS) — FROM 1ST FLR COLUMN
475	135				417	145	190	135	170	210		145	145	132	TOTAL LOAD TO CONCRETE COL. (KIPS) — FROM 1ST FLR COLUMN
45"×39"	20"φ				12"×12"	12"×12"	49"×15" (SEE DET. SHT. C-15)	20"φ	2-12"×12"	12"×12"		12"×12"	2-12"×12"	12"×12"	SIZE (WIDTH × LENGTH) — COLUMN OR PIER
14-#9	8-#7				4-#7	4-#7	12-#6	8-#7	8-#6	4-#6		4-#6	8-#6	4-#6	VERT. REINF. — COLUMN OR PIER
#4@12" 4/SET	#3@9" 4/SET				#3@12"	#3@12"	#3@12" 3/SET	#3@9"	#3@9" 2/SET	—		—	#3@12" 2/SET	—	TIES — COLUMN OR PIER
101	72				108	101	82	60	70	90		60	60	71	D.L. (KIPS) — FROM BASEMT
76	53				64	60	91	60	70	100		60	60	60	L. L. (KIPS) — FROM BASEMT
337	130				165	178	202	125	155	205		135	135	142	TOTAL DEAD LOAD (INCL. WT. OF FTG KIPS) — FROM BASEMT
664	265				301	318	388	265	325	410		275	275	274	TOTAL LOAD TO FTG (KIPS) — FROM BASEMT
8-#9	8-#7				4-#7	4-#7	12-#6	8-#7	8-#6	4-#6		4-#6	8-#6	4-#6	DOWELS TO COL.
13'-4"	13'-4"				13'-4"	14'-0" @ YY-47⅞ 14'-6" @ BBB-49¾ 13'-4" @ OTHERS	14'-0"	13'-6"	13'-6"	14'-0" @ Y-47⅞ 13'-4" OTHERS		13'-6" @ LINE 56⅝ 13'-4" (OTHER)	13'-6"	14'-6" @ LINE BBB 13'-4" OTHERS 13'-6" @ LINE XN	DIM. FROM 1ST FL. TO TOP OF COLLAR OR SHAFT
7'-0"×2'-6"	—				—	—	—	—	—	—		—	—	—	SIZE (DIAM. × THICK) — COLLAR
8-#5	—				—	—	—	—	—	—		—	—	—	HORIZ. REINF. TOP E.W. — COLLAR
14-#9	—				—	—	—	—	—	—		—	—	—	DOWELS TO COLLAR
5'-0"	3'-0"				3'-0"	3'-0"	8'-0"	3'-0"	3'-0"	3'-0"		3'-0"	3'-0"	3'-0"	DIAMETER — SHAFT
14-#9	8-#8				8-#8	8-#8	8-#8	8-#8	8-#8	8-#8		8-#8	8-#8	8-#8	VERT. REINF. — SHAFT
#4@12"	#4@12"				#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"		#4@12"	#4@12"	#4@12"	TIES — SHAFT
8'-0"	5'-0"				5'-6"	5'-6"	6'-0"	5'-0"	5'-6"	6'-0"		5'-0"	5'-0"	5'-0"	BELL DIAMETER
														REMARKS
7'-0"φ	4'-0"φ				4'-0"	4'-6"φ	5'-0"φ	4'-0"φ	4'-6"φ	5'-0"φ		4'-0"φ	4'-0"φ	4'-0"φ	ALTERNATE No. 1

NOTE:
FOR CONTINUATION OF PLENUM FOOTING SCHEDULE SEE SH'T C-42.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-23-77	PRIMS MBLN & SUBST. EER.		
3-21-77	CAISSON BIDS		
4-29-77	GENERAL & PLENUM BIDS		
4-22-77	CONCRETE BIDS		



KEY PLAN

NOTE:
ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-75	DG	AS BUILT	
44	7-15-77	A.C.		
61	7-7-77	E.K.		
33	6/7/77	A.C.		
24	5/25/77	E.K.		
P.C.23	5/20/77	E.K.		
P.C.17	5-10-77	E.K.		
P.C.10	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 MILWAUKIE AVENUE & DETROIT, MICHIGAN
ENGINEERING & REAL ESTATE & CONSTRUCTION

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

PROJECT TITLE

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P. E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY BROSLY

JOB CAPT. KLUCZYNSKI CHU

C-24
SHEET NUMBER

ARGO 118 REV. 12-69 KAE 17 0133 8-74 1790+

PROJECT NO. SHEET NO.

PLENUM FLAT SLAB REINFORCEMENT SCHEDULE

STRIP MARK	THICK. (INCHES)	REINFORCEMENT BOTT.	TOP REINFORCEMENT STRAIGHT CONT.	TOP REINFORCEMENT OVER SUPPORT (EA. SUPPORT U.N.)	REMARKS
AA	16	15-#7	12-#6	23-#7 x 15'0" LG. @ SOUTH SUP'T 23-#7 CONT. @ NORTH SUP'T.	EXTEND TOP REINF. INTO STRIP BB
BB	16	12-#6	23-#7 CONT. FROM STRIP AA, CC, HH & AZ	—	EXTEND TOP REINF 9'6" INTO STRIP CC & DD
CC	16	18-#7	12-#6	23-#7 FROM STRIP BB, EE OR NN @ SOUTH END 23-#7 CONT. @ NORTH SUP'T.	EXTEND TOP REINF. INTO STRIP BB
DD	16	12-#6	12-#6	23-#7 FROM STRIP BB @ SOUTH SUP'T 8-#7 x 12'-9" LG. @ NORTH SUP'T	EXTEND TOP REINF. 7'0" INTO STRIP EE
EE	16	15-#6	12-#6	8-#7 x 12'-9" LG. @ SOUTH SUP'T 23-#7 x 16'-0" LG. @ NORTH SUP'T	EXTEND TOP REINF. 9'-0" INTO STRIP CC
FF	16	14-#6	12-#6	—	LAP TOP REINF. @ MID-SPAN
GG	16	18-#6	12-#6	—	LAP TOP REINF. @ MID-SPAN
HH	16	17-#7	13-#6	23-#7 @ NORTH SUP'T.	EXT. T&B REINF. 3'-6" INTO COL. LINE "VVW"
JJ	16	13-#6	13-#6	23-#7 CONT. FROM STRIP BG 8-#7 x 12'-9" LG. AT NORTH SUP.	EXTEND TOP REINF. 7'-0" INTO STRIP KK
KK	16	15-#6	10-#6	8-#7 X 12'-9" LG. @ SOUTH SUP'T. 10-#7 x 15'-0" LG. AT NORTH SUP'T	EXTEND TOP REINF. 8'-0" INTO STRIP "LL"
LL	16	15-#6	10-#6	10-#7 X 15'-0" LG. AT SOUTH SUP'T. 14-#7 CONT. @ NORTH SUP'T	EXTEND TOP REINF. INTO STRIP MM
MM	16	13-#6	15-#7 CONT. FROM STRIP LL	—	EXT. T&B REINF. 3'-6" INTO ADJ. SLAB AT NORTH END
NN	16	14-#6	12-#6	23-#7 FROM STRIP CC @ SOUTH SUP'T. 23-#7 x 16'-8" LG @ NORTH SUP'T.	EXTEND TOP REINF. 8'-6" INTO ADJ. STRIPS
PP	16	13-#7	8-#7 CONT. FROM STRIP QQ OR TT	—	BOTT. REINF. EXTENDED FROM STRIP QQ
QQ	16	13-#7	10-#7	8-#7 x 17'-6" LG.	EXTEND TOP CONT. REINF. INTO STRIP PP
RR	16	13-#7	7-#6	8-#7 x 17'-6" LG.	—
SS	16	10-#7	12-#7	8-#7 x 14'-0" LG.	—
TT	16	13-#7	7-#6	8-#7 x 17'-6" LG.	EXTEND TOP REINF. 8'-6" INTO STRIP PP
UU	16	14-#7	7-#6	8-#7 x 17'-6" LG. @ SOUTH SUP'T. 10-#7 x 17'-6" LG. AT NORTH SUP'T	—
VV	16	13-#7	7-#6	10-#7 x 15'-0" LG. (19-#7 x 15'-0" LG. @ COL. LINE "EE")	—
WW	16	12-#6	15-#7	—	EXTEND TOP REINF. INTO STRIP XX
XX	16	10-#7	15-#7	—	LAP 9-#7 FROM STRIP YY AT MID-SPAN
YY	16	10-#7	9-#7	—	EXTEND T.&B. REINF. 5'-0" INTO ADJ. SLAB @ DISC. END
ZZ	16	10-#7	8-#6	11-#7 x 12'-9" LG @ SOUTH SUP'T 8-#7 x 16'-0" LG. @ NORTH SUP'T	EXT. TOP REINF. 5'-9" INTO ADJ. SLAB @ SOUTH END
AB	16	12-#7	8-#6	8-#7 X 16'-0" LG. @ SOUTH SUP'T. 5-#7 CONT. AT NORTH SUP'T	EXTEND TOP REINF. INTO STRIP AC
AC	16	7-#6	15-#7 CONT. FROM STRIP AB	—	EXTEND TOP REINF. 3'-6" INTO ADJ. SLAB @ SOUTH END
AD	16	6-#6	4-#6	—	EXTEND TOP REINF. 5'-0" INTO ADJ. SLAB AT ENDS
AE	16	12-#6 CONT. FROM STRIP AF	9-#6 CONT. FROM STRIP AF	—	EXTEND TOP REINF. 4'-0 INTO STRIP FF
AF	16	12-#6	9-#6	—	EXTEND TOP REINF. INTO STRIPS AE & AG
AG	16	9-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
AH	16	12-#6	9-#6	2-#6 x 15'-0" LG. AT NORTH SUPPORT	—
AJ	16	12-#6	7-#6	4-#6 x 15'-0" LG AT NORTH SUPPORT	—
AK	16	7-#6	7-#6	—	EXT. T&B REINF. 3'-6" INTO ADJ. SLAB @ SOUTH END
AL	16	7-#6	7-#6 FROM STRIP AK 9-#7 FROM STRIP AM	—	LAP TOP REINF. AT MID-SPAN
AM	16	7-#6	9-#7	—	EXTEND TOP REINF. INTO STRIP AL
AN	16	9-#6	9-#7	—	EXTEND TOP REINF. 7'-0" INTO STRIP AP
AP	16	9-#6	7-#6	9-#7 FROM STRIP AN @ SOUTH END 7-#7 x 15'-0" LG. @ NORTH END	EXTEND TOP REINF. 8'-0" INTO STRIP AQ
AQ	16	9-#7	7-#6	7-#7 x 15'-0" LG. @ SOUTH END 13-#7 CONT. AT NORTH END	EXTEND TOP REINF. INTO STRIP AR
AR	16	7-#6	13-#7 CONT. FROM STRIP AQ	—	EXTEND TOP REINF. 5'-0" INTO STRIP AS
AS	16	9-#7	7-#6	7-#7 X 15'-0" LG (14-#7 AT COL. LINE EE)	—
AT	16	12-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
AU	16	15-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
AV	16	8-#6	8-#6	—	LAP TOP REINF. AT MID-SPAN
AW	16	12-#6	8-#6 CONT. FROM STRIP AV AT SOUTH SUP'T 10-#7 x 17'-5 LG. AT NORTH SUP'T	—	LAP TOP REINF. AT MID-SPAN & EXT. TOP REINF. 7'-0" INTO STRIP AX @ NORTH SUP'T
AX	16	13-#7	7-#6	8-#7 x 15'-6" LG.	EXTEND TOP REINF. 8'-6 INTO STRIP UU
AY	16	15-#7	12-#6	23-#7 x 11'-0" LG. @ SOUTH SUP'T 23-#7 FROM STRIP CC @ NORTH SUP'T	EXT. T&B REINF. 3'-6" INTO ADJ. SLAB AT SOUTH END
AZ	16	12-#6	23-#7 CONT. FROM STRIP BB	—	EXT. T&B REINF. 3'-6" INTO ADJ. SLAB AT NORTH END.
DK	16	15-#6 FROM STRIP BV	13-#6 CONT. FROM STRIP BV	—	—
DL	16	8-#6	8-#6	—	EXT. TOP REINF. INTO STRIP DM
DM	16	8-#6	8-#6 CONT. FROM STRIP DL AT WEST SUP'T 8-#7 CONT FROM STRIP DN @ EAST SUP'T	—	LAP TOP REINF. AT MID-SPAN
DN	16	9-#6	8-#7	—	EXT. T.&B. REINF. 3'-0" INTO ADJ. SLAB AT DISC. END
DP	16	15-#7	12-#7	23-#7 x 15'-0" LG. @ WEST SUP'T. 10-#7 x 15'-0" LG. @ EAST SUP'T.	EXTEND TOP REINF. 7'-0" INTO ADJACENT STRIP
DR	16	10-#7 FROM STRIP CU	—	—	EXTEND ALL TOP REINF. FROM STRIP CU
DS	16	15-#7 EXT. FROM STRIP BA	10-#7 EXTENDED FROM STRIP BA	—	EXTEND TOP AND BOTT. REINF. 3'-6" INTO ADJ. SLAB @ EAST END

ARGO 118 REV. 12-69 KBE 17 0153 2-74 1790+

PLENUM FLAT SLAB REINFORCEMENT SCHEDULE (CONT.)

STRIP MARK	TH'KN'S (INCHES)	REINFORCEMENT BOTT.	TOP REINFORCEMENT STRAIGHT CONT.	TOP REINFORCEMENT OVER SUPPORT (EA. SUPPORT U.N.)	REMARKS
BA	16	15-#7	10-#6	10-#7 x 15'-0" LG. (20-#7 x 15'-0" LG. @ COL. LINE 48)	EXT. TOP REINF. 7'-6" INTO ADJACENT STRIP
BC	16	11-#7	8-#6	10-#7 x 15'-0" LG. AT WEST SUP'T. 15-#7 CONT. AT EAST SUPPORT	EXT. TOP REINF. INTO STRIP BD
BD	16	11-#6	15-#7 CONT. FROM STRIP BC	—	EXT. TOP REINF. 6'-0" INTO STRIP BE
BE	16	11-#6	8-#6	15-#7 FROM STRIP BD AT WEST SUP'T 15-#6 x 9'-0" LG. AT EAST SUP'T	EXT. T&B REINF. 3'-6" INTO ADJ. SLAB AT EAST SUP'T
BF	16	15-#7 FROM STRIP BR	—	—	EXTEND ALL TOP REINF. FROM STRIP BR
BG	16	15-#7 FROM STRIP BA	—	—	EXTEND ALL TOP REINF. FROM STRIP BA
BH	16	9-#7	6-#6	10-#7 X 15'-0" LG. @ WEST SUP'T 11-#7 CONT. AT EAST SUPPORT	EXTEND TOP REINF. INTO STRIP BJ
BJ	16	7-#7	11-#7 CONT. FROM STRIP BH	—	EXTEND TOP REINF. 6'-0" INTO STRIP BK OR CY
BK	16	7-#7	6-#6	11-#7 CONT. FROM STRIP BJ AT WEST END 9-#7 x 9'-0" LG. AT EAST SUP'T	EXT. T&B. REINF. 3'-6 INTO ADJ. SLAB AT EAST SUP'T
BL	16	12-#6	12-#6	—	EXTEND TOP REINF. INTO STRIP BM
BM	16	12-#6	12-#6 CONT. FROM STRIP BL @ WEST SUP'T. 12-#7 CONT. FROM STRIP BN @ EAST SUP'T.	—	LAP TOP REINF. AT MID-SPAN.
BN	16	14-#6	12-#7	—	EXT. T. & B. REINF. 3'-6" INTO ADJ. SLAB @ EAST END
BP	16	12-#6	12-#6	—	LAP TOP REINF. AT MID-SPAN.
BQ	16	15-#7	12-#6	12-#7 X 15'-0" LG. (23-#7 x 15'-0" LG. @ COL. LINE 48)	EXTEND TOP REINF. 7'-6 INTO ADJACENT STRIP
BR	16	15-#7	12-#6	12-#7 x 15'-0" LG. @ WEST SUP'T. 17-#7 x 13'-6" LG. @ EAST SUP'T	EXTEND TOP REINF. 6'-0 INTO STRIP BS
BS	16	13-#6	12-#6	17-#7 FROM STRIP BR OR DP @ WEST SUP'T. 12-#7 AT EAST SUPPORT	EXTEND TOP REINF. INTO STRIP BT
BT	16	13-#6	12-#7 CONT. FROM STRIP BS	—	LAP TOP REINF. AT MID-SPAN
BU	16	13-#6	12-#6	12-#7 CONT. FROM STRIP BT @ WEST SUP'T 15-#7 x 9'-0" LG. AT EAST SUPPORT	EXT. T.&B. REINF. 3'-6" INTO ADJ. SLAB @ EAST END
BV	16	15-#6	13-#6	—	LAP TOP REINF. AT MID-SPAN
BW	16	13-#6	13-#6	—	LAP TOP REINF. AT MID-SPAN
BX	16	12-#7	9-#6	9-#7 x 15'-0" LG. (17-#7 x 15'-0" LG. AT COL. LINE 48)	EXTEND TOP REINF. 7'-6 INTO ADJACENT STRIP
BY	16	12-#7	9-#6	13-#7 FROM STRIP BX @ WEST SUP'T 15-#7 x 13'-6" LG. @ EAST SUPPORT	EXTEND TOP REINF. 6'-0 INTO STRIP BZ
BZ	16	12-#6	9-#6	15-#7 FROM STRIP BY @ WEST SUP'T 9-#7 FROM STRIP CA @ EAST SUP'T	—
CA	16	9-#6	9-#7	—	LAP TOP REINF. AT MID-SPAN
CB	16	9-#6	9-#6	9-#7 CONT. FROM STRIP CA @ WEST SUP'T 11-#7 x 9'-0" LG. AT EAST SUPPORT	EXT. T.&B. REINF. 3'-6 INTO ADJ. SLAB @ EAST END
CD	16	12-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
CE	16	9-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
CF	16	7-#7	7-#6	6-#7 x 15'-0" LG.	EXT. T&B REINF. 3'-6" INTO ADJ. SLAB @ WEST END
CG	16	7-#7	7-#6	6-#7 x 15'-0" LG. @ WEST SUP'T. 9-#7 CONT. AT EAST SUPPORT	EXTEND TOP REINF. INTO STRIP CH
CH	16	7-#6	9-#7 CONT. FROM STRIP CG	—	EXTEND TOP REINF. 6'-0" INTO STRIP CJ
CJ	16	7-#6	7-#6	9-#7 FROM STRIP CH @ WEST SUP'T 7-#7 x 9'-0" LG. @ EAST SUP'T	EXT. T&B REINF. 3'-6 INTO ADJ. SLAB AT EAST SUP'T
CK	16	7-#6	5-#6	—	LAP TOP REINF. AT MID-SPAN
CL	16	7-#7	5-#6	—	LAP TOP REINF. AT MID-SPAN
CM	16	5-#6	5-#6	—	EXT. T&B REINF. 3'-6 INTO ADJ. SLAB AT EAST SUP'T
CN	16	5-#6	7-#7	—	EXT. TOP REINF. 3'-6" INTO ADJ. SLAB AT WEST END
CP	16	6-#7	5-#6	7-#7 FROM STRIP CN @ WEST SUP'T 6-#7 x 15'-0" LG @ EAST SUP'T	EXT. TOP REINF. 7'-6" INTO STRIP CF AT EAST SUPPORT
CQ	16	17-#6	13-#6	—	LAP TOP REINF. AT MID-SPAN
CR	16	7-#7	7-#6	11-#7 x 10'-0" LG. @ WEST SUP'T 8-#7 CONT FROM STRIP CQ AT EAST SUPPORT	EXT. TOP REINF. 3'-6" INTO ADJ. STRIP @ WEST SUP'T
CS	16	8-#6	8-#7 (LAP TOP REINF. @ MID-SPAN)	—	EXTEND TOP REINF. 7'-6 INTO STRIP CR OR DK
CT	16	7-#6	7-#6	—	LAP TOP REINF. AT MID-SPAN
CU	16	10-#7	8-#6	8-#7 x 15'-0" LG. (19-#7 x 15'-0" LG. AT COL. LINE "48")	EXTEND TOP REINF. 7'-6 INTO ADJACENT STRIP
CV	16	10-#7	8-#6	8-#7 x 15'-0" LG AT WEST SUP'T. 13-#7 CONT. AT EAST SUPPORT	EXTEND TOP REINF. INTO STRIP CW
CW	16	8-#6	13-#7 CONT. FROM STRIP CV	—	EXTEND TOP REINF. 8'-0" INTO STRIP CX
CX	16	8-#6	13-#7 CONT. FROM STRIP CW	9-#6 CONT. AT EAST SUP'T	LAP TOP REINF. AT MID-SPAN AND EXTEND TOP REINF. INTO STRIP CY
CY	16	10-#6	9-#6	—	EXTEND TOP REINF. 10'-6" INTO STRIP CZ
CZ	16	10-#6 CONT. FROM STRIP CY	—	9-#6 FROM STRIP CY @ WEST SUP'T 9-#7 x 13'-6" LG. @ EAST SUP'T	LAP TOP REINF. AT MID-SPAN EXT. T&B REINF. 3'-6" INTO ADJ. SLAB AT EAST SUPPORT
DA	16	8-#7	8-#7	—	EXTEND TOP REINF. 3'-6" INTO ADJ. SLAB @ WEST END
DB	16	9-#6	8-#7 FROM STRIP DA 9-#6 FROM STRIP DC	—	LAP TOP REINF. AT MID-SPAN
DC	16	9-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
DE	16	7-#6	7-#6	—	LAP TOP REINF. AT MID-SPAN
DF	16	9-#6	9-#6	—	LAP TOP REINF. AT MID-SPAN
DG	16	12-#7	7-#6	6-#7 x 11'-6" @ WEST SUP'T 13-#7 x 16'-0" @ EAST SUP'T	EXT. T&B REINF. 3'-6 INTO ADJ. SLAB AT WEST END
DH	16	10-#6	10-#7 CONT. FROM STRIP DA @ WEST SUP'T + 9-#7 @ EAST SUP'T.	—	EXTEND TOP REINF. 8'-9" INTO STRIP DJ AND CT
DJ	16	10-#6 CONT. FROM STRIP DH	9-#6 CONT. FROM STRIP CY @ EAST SUPPORT 9-#7 CONT. FROM STRIP DH @ WEST SUPPORT	—	LAP TOP REINF. AT MID-SPAN

CONCRETE BEAM SCHEDULE

BEAM MARK	SIZE b x d	SHAPE	LONGITUDINAL REINFORCING: STRAIGHT BOTTOM	TOP: STRAIGHT CONT.	TOP: OVER SUPPORT (EA. SUPP. U.N.O.)	PLACEMENT	STIRRUP REINFORCING: SIZE	TYPE	SPACING EA. END	REMARKS
B1	16" x 24"		6-#8	3-#8	1-#8 x 15'-0"	℄ SUPT ℄ SUPT	#3		4@8" + REMAINDER @12"	—
B2	16" x 24"		5-#9	3-#8	2-#8 x 17'-0" AT CONT. END.		#3		16@3" + 7@6" REMAINDER @ 12"	BEND TOP BARS @ NON-CONT. ENDS.
B3	16" x 24"		6-#8	3-#8	2-#8 x 17'-0" AT CONT. END.		#3		12@4" + 7@6" REMAINDER @ 12"	EXTEND TOP CONT. BAR FULL LGTH INTO B5 AND BEND DOWN
B4	16" x 24"		5-#9	3-#8	3-#8 x 18'-0" AT CONT. END.		#3		16@3" + 8@6" REMAINDER @ 12"	EXTEND TOP CONT. BAR FULL LGTH INTO B5 AND BEND DOWN AT EACH END
B5	16" x 24"		4-#8	REINF. EXTENDED FROM B3, B8, B21 OR B23	3-#8 x 18'-0" AT CONT. END & EXTEND TO ℄ OF B5		#3		@ 12" THROUGH OUT	USE TOP STEEL OF ADJ. BEAM IF EQUIVALANT
B7	16 x 24"		5-#9	2-#7	—	1) 2) 7'-0"	#3		10@6" REMAINDER @ 12"	1) BEND TOP BARS @ NON-CONT ENDS 2) EXTEND TOP BARS INTO ADJ. SLAB
B8	18" x 26"		6-#9	3-#9	1-#8 x 15'-0"		#3		12@3" + 6@4" + 4@6" REMAINDER @ 12"	—
B10	20" x 28"		7-#9	4-#9	—		#4		13@6" + 6@8" REMAINDER @ 12"	BEND DOWN TOP BARS AT NON-CONT. END
B11	20" x 28"		7-#9	1) 3-#9	—	1)	#4		18@4", 6@8" CONT. @ 12" O.C.	1) EXTEND THROUGT SPAN OF ADJAC. SLAB 2) BEND DOWN AT NON-CONT. END
B12	24" x 28"		7-#9	3-#9	1-#8 x 15'-0" LG. @ CONT. END		#4		10@4", 6@8" CONT. @ 12" O.C.	BEND DOWN TOP BARS AT NON-CONT END
B13	24" x 28"		6-#8	3-#8	—		#4		8@6" CONT. @ 12"	BEND DOWN TOP BARS AT NON-CONT END
B14	24" x 28"		9-#9	4-#9	2-#9 OVER CONT. END		#4		14@3", 8@6" CONT. @ 12"	BEND DOWN TOP BARS AT NON-CONT END
B15	24" x 28"		8-#8	4-#8	—		#4		8@4" CONT. @ 12"	BEND DOWN TOP BARS AT NON-CONT. END
B16	24" x 12"		4-#9	4-#8	—		#4		8@4" CONT. @ 12"	BEND DOWN TOP BARS
B17	20" x 20"		4-#9	3-#9	—		#4		12@3", 8@6" CONT. @ 12"	BEND DOWN TOP BARS EXTEND TOP BARS OF ADJ. BEAM WHERE EQUIVALENT
B18	20" x 20"		5-#9	3-#9	—		#4		12@3", 8@6" CONT. @ 12"	BEND DOWN TOP BARS AT NON-CONT END
B19	20" x 28"		7-#9	4-#9	—		#4		16@3", 8@6" CONT. @ 12"	EXTEND TOP BARS THROUGH ADJ. SHORT SPAN
B20	20" x 20"		4-#9	2-#9	—		#3		10@4" CONT. @ 12"	BEND DOWN TOP BARS @ NON-CONT. END
B21	18" x 28"		5-#9	3-#9	—		#3		13@4", 7@8" REMAINDER @ 12"	BEND DOWN TOP BARS AT NON-CONT. END
B22	18" x 28"		5-#9	3-#9	2-#8 x 17'-0" AT CONT. END		#3		16@3", 7@6" REMAINDER @ 12"	BEND DOWN TOP BARS AT NON-CONT. END
B23	18" x 28"		5-#9	3-#9	2-#8 x 17'-0" AT CONT. END		#3		16@3", 7@6" REMAINDER @ 12"	—
B25	18" x 28"		6-#9	3-#9	2-#8 x 18'-0" AT CONT. END		#3		16@3", 7@4", 4@6" REMAINDER @ 12"	BEND DOWN TOP BARS @ NON-CONT. END
B26	20" x 24"		4-#9	2-#9	—		#4		8@4", 6@8" CONT. @ 12"	BEND DOWN TOP BARS @ NON-CONT END
B27	16" x 24"		4-#8	2-#9	—		#3		6@8" CONT. @12"	BEND DOWN TOP BARS @ NON-CONT. END
B28	20" x 30"		6-#9	2-#9	—		#3		8@6" CONT. @ 12"	BEND DOWN TOP BARS EXTEND TOP BARS @ COLS 55 3/8
B29	24" x 30"		2-#9 (2ND LAYER) 8-#9 (1ST LAYER)	3-#9	—		#4		8@3", 12@6" CONT. @12"	BEND DOWN TOP BARS
B30	24" x 30"		2-#9 (2ND LAYER) 8-#9 (1ST LAYER)	4-#9	1-#9 x 14'-0" OVER CENTER SUPT. (NO COL. POCKET)		#4		8@3", 12@6" CONT. @ 12"	BEND DOWN TOP BARS @ NON-CONT. END
B31	24" x 30"		6-#9	4-#9	—		#4		9@6" CONT. @ 12"	BEND DOWN TOP BARS @ NON-CONT. END
B32	18" x 24"		6-#9	3-#9	—	1) 2) 7'-6"	#4		6@4", 6@8" CONT. @ 12"	1) BEND DOWN TOP BARS 2) EXTEND TOP BARS INTO ADJ SLAB
B33	24" x 30"		2-#9 (2ND LAYER) 8-#9 (1ST LAYER)	4-#9	—		#4		12@3", 8@6' CONT. @ 12"	BEND DOWN TOP BARS @ NON-CONT. END
B34	24" x 38"		3-#9 2ND LAYER 8-#9 1ST LAYER	3-#9	ADD 5-#9 x 18'-0" LG @ CONT. END		2-#4		12@8" @ CONT. END REMAINDER @ 12"	BEND TOP BARS @ NON. CONT END
B35	20" x 30"		7-#9	4-#8	—		#4		@ 12" THRUOUT	BEND DOWN TOP BARS @ NON-CONT. END
B36	16" x 20"		3-#8	2-#7	—		#3		@ 8" THRUOUT	BEND DOWN TOP BARS @ NON-CONT. END
B37	23" x 24"		7-#9	4-#8	—		#4		@ 8" THRUOUT	BEND DOWN TOP BARS @ NON-CONT. END
B38	20" x 32"		7-#9	1) 3-#8	—		#4		6@4" @ NORTH END REMAINDER @ 12"	1) EXTEND 2-#8 FOR 6'-0" BEYOND SUPPORT @ EA. END
B39	16" x 34"		6-#8	3-#8	1-#8 x 15'-0" @ CONT. END		#4		8@5" @ EAST END REMAINDER @ 12"	BEND DOWN TOP BARS @ NON-CONT. END.
B40	16" x 24"		5-#8	3-#8	—		#3		8@6" REMAINDER @ 12"	—
B41	16" x 30"		4-#9	3-#8	—		#3		@ 12" THRUOUT	BEND DOWN TOP BARS
B42	24" x 40"		4-#9 2ND LAYER 8-#9 1ST LAYER	4-#9	—	2'-0"	2-#4		@ 12" THRUOUT	1) EXTEND TOP BARS @ W x 55 3/8 ON. 2) BEND TOP BARS @ NON-CONT. ENDS
B43	24" x 38"		3-#9 2ND LAYER 8-#9 1ST LAYER	3-#8	—		2-#4		10@10" @ SOUTH END 8@10" @ NORTH END REMAINDER @ 16"	BEND DOWN TOP BARS @ SUPTS
B44	24" x 38"		9-#9	3-#8	—		2-#4		8@12" @ EA. END REMAINDER @ 16"	BEND DOWN TOP BARS @ SUPTS
B45	24" x 38"		2-#9 2ND LAYER 8-#9 1ST LAYER	3-#8	—		2-#4		8@12" @ EA. END REMAINDER @ 16"	BEND DOWN TOP BARS @ SUPTS
B46	16" x 30"		2-#9 (2ND LAYER) 5-#9 (1ST LAYER)	3-#9	1-#8 x 15'-0" LG.		#4		@ 12" THRUOUT	—
B47	24" x 38"		3-#9 2ND LAYER 6-#9 1ST LAYER	3-#9	8-#9 x 17'-0" @ CONT. END IN 2ND LAYER		2-#4		11@8" @ CONT. END REMAINDER @ 16"	BEND DOWN TOP BARS @ NON-CONT. END
B48	24" x 38"		6-#9	3-#9	—		#4		10@9" @ CONT. SUPP. REMAINDER @ 16"	BEND TOP BARS @ NON CONT. END
B49	18" x 24"		6-#9	3-#7	—		#3		8@6" REMAINDER @ 12"	BEND TOP REINF. @ SUPTS
B50	20" x 24"		6-#8	3-#8	1-#8 x 15'-0" @ CONT. SUP'T		#3		4@8" REMAINDER @ 12"	BEND TOP BARS @ NON-CONT. ENDS
B51	16" x 24"		6-#8	3-#8	2-#8 x 15'-0" + BENDS CONT. END		#3		6@6" @ WEST END 10@6 @ EAST END REMAINDER @ 12"	EXTEND ALL TOP REINF. FULL LENGTH INTO B5 & BEND DOWN.
B52	16" x 24"		3-#9	3-#8	—		#3		@ 12" THRUOUT	BEND TOP BARS @ NON-CONT ENDS

NOTE: FOR TYPICAL BEAM AND FLAT SLAB REINFORCEMENT DETAILS SEE SH'T C-38

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-23-77	PRIME MECH	& ELECT REF	
4-28-77	CONCRETE SOUND BLDG	R. J. Marsh	H. J. Olsen
4-28-77	FIRST FLOOR CONCRETE BLDG	R. J. Marsh	H. J. Olsen

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-12-75	DG	AS BUILT	
70	8-1-77	W.A.	[illegible]	[illegible]
44	7-15-77	A.C.	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]
24	5/25/77	E.K.	[illegible]	[illegible]
PC 38	5-20-77	E.K.	[illegible]	[illegible]
BC 17	5/10/77	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 486 WEST MILWAUKEE AVENUE DETROIT, MICHIGAN

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT

OKLAHOMA INDUSTRIES AUTHORITY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

PLENUM FLAT SLAB REINFORCEMENT & CONCRETE BEAM SCHEDULES

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P.E. & C. PROJECT NUMBER

DATE 4-28-77

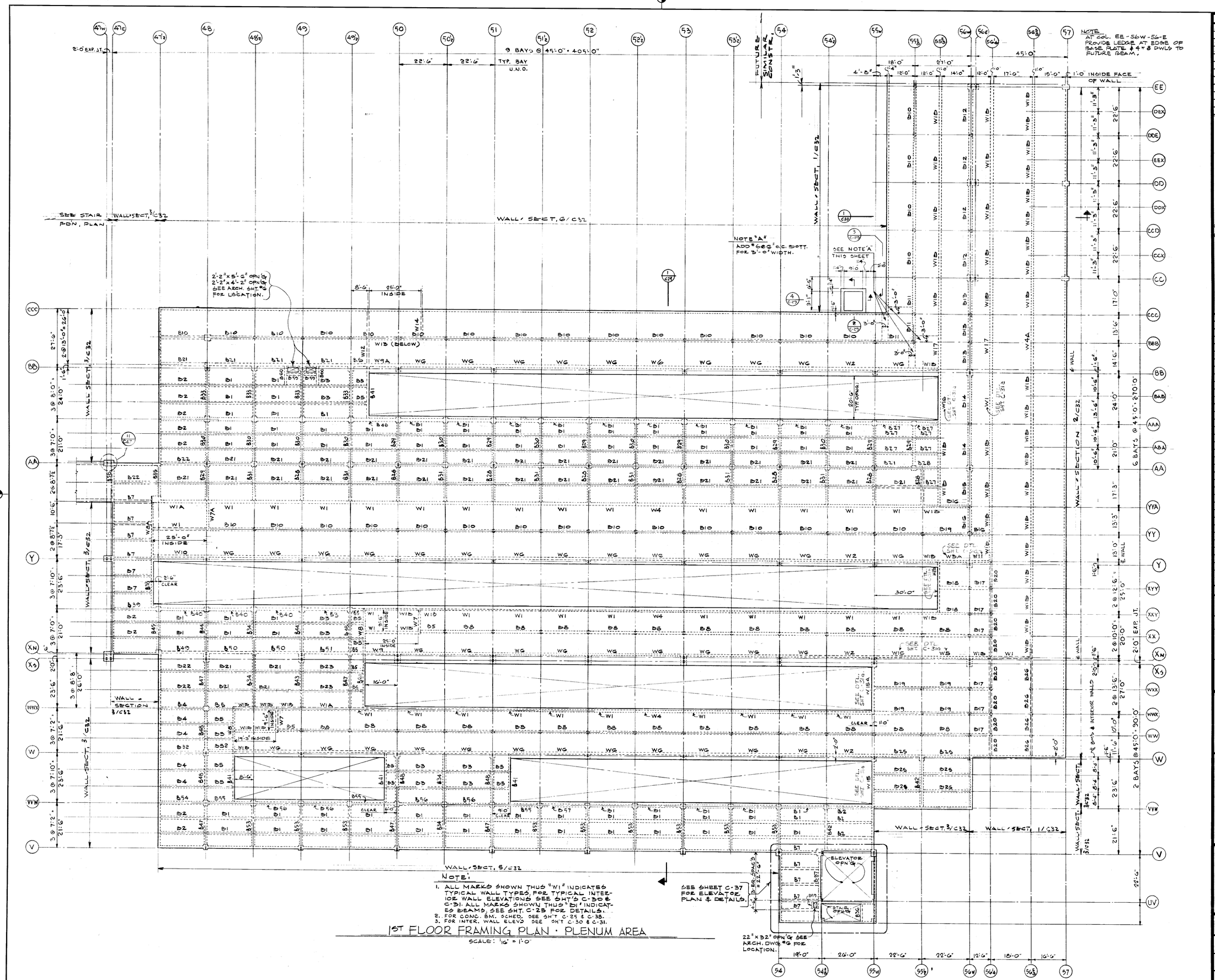
DRAWN BY BROSKY

JOB CAPT. E. KUCZYNSKI

A. CHU E. POOK

C-25 SHEET NUMBER

PROJECT NO. SHEET NO.



NOTE:

1. ALL MARKS SHOWN THUS "W1" INDICATES TYPICAL WALL TYPES, FOR TYPICAL INTERIOR WALL ELEVATIONS SEE SHT'S C-30 & C-31. ALL MARKS SHOWN THUS "B1" INDICATES BEAMS, SEE SHT. C-25 FOR DETAILS.
2. FOR CONC. BM. SCHED. SEE SH'T C-25 & C-38.
3. FOR INTER. WALL ELEVS SEE SH'T C-30 & C-31.

1ST FLOOR FRAMING PLAN · PLENUM AREA

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

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-23-77	PRIME MECH & ELECT REF.		
4-28-77	CONCRETE BLDG.		
4-28-77	FIN. FLOOR CONCRETE BLDG.		
5/11/77	ISS. FOR P.C. #118		

KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
83	9-9-77	E.K.		
70	8-1-77	W.A.		
66	7-15-77	A.C.		
61	7-7-77	B.K.		
46	5/25/77	E.K.		
P.C. 28	5/20/77	E.K.		
P.C. 17	5/10/77	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 • CONSTRUCTION • REAL ESTATE • CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT

FOR

OKLAHOMA INDUSTRIES AUTHORITY

TENANTED BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

1ST FLOOR FRAMING PLAN

PLENUM AREA

SHEET TITLE

OWNER'S IDENTIFICATION	4500 BUSINESS ASSIGNMENT PROJECT NUMBER
DATE 4-28-77	
DRAWN BY ALCINI BROSKY	C·26
JOB CAPT. KUCZYNSKI E. ROSA	SHEET NUMBER

ARGO 118 REV. 12-69 KAE 17 0153 2-74 1790M

MAR 9 1978

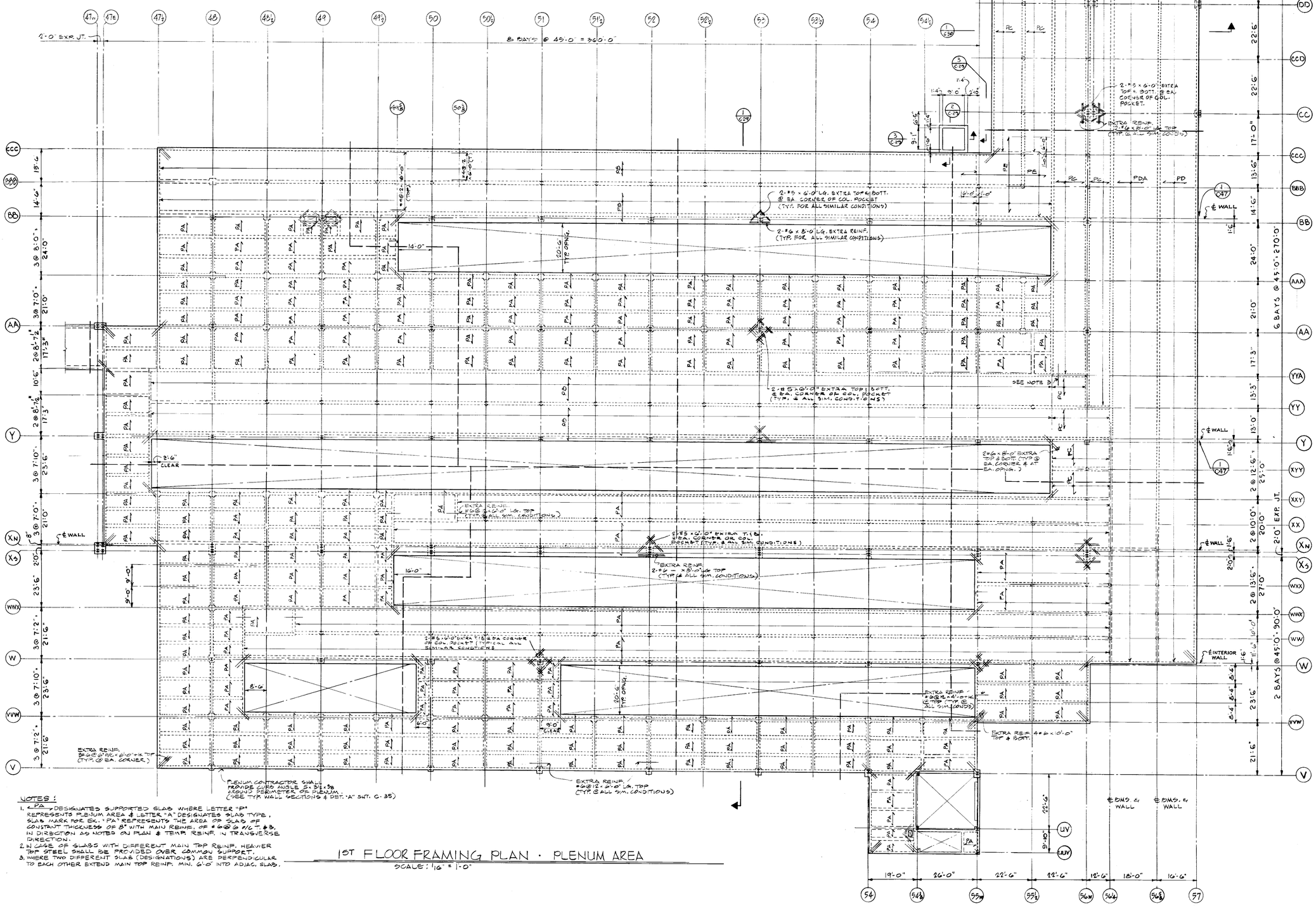
PROJECT NO. SHEET NO.

SUPPORTED SLAB SCHEDULE IN PLENUM AREA

SLAB MARK	THICKNESS	MAIN REINFORCING BOTT. STEEL CONT.	MAIN REINFORCING TOP STEEL CONT.	TEMP BARS TOP CONT.	TEMP BARS BOTT. CONT.	REMARKS	DESIGN LIVE LOAD
PA	8"	#6@6"	#6@6"	#4@12"	#6@12"	—	
PD	9"	#6@6"	#6@6"	#4@12"	#6@12"	—	
PC	10"	#6@6"	#6@6"	#4@12"	#6@12"		
PD PDA	12"	#7@6	1) #7@6"	#5@12"	#6@12"	1) EXTEND 8'-0" INTO ADJAC. SLAB WEST OF LINE 56W.	
PE	10"	#6@6	1) #6@6"	—	—	1) EXTEND 6'-0" INTO ADJAC. SLABS AS MARKED ON PLAN	

NOTES FOR CONSTRUCTION JOINTS · PLENUM AREA

1. LINES SHOWN THUS (————) ON PLAN INDICATE VERTICAL MANDATORY CONSTRUCTION JOINTS (SUCH AS. CONSTRUCTION JOINTS THRUGH PLENUM FL. SLAB, WALLS AND FIRST FL. SLAB AND BEAMS). FOR HORIZONTAL CONSTR. JOINTS, WALLS SEE DWGS C-30 AND C-31. OTHER CONSTRUCTION JOINTS CAN BE INTRODUCED IN PLENUM AREA SUBJECT TO THE APPROVAL OF THE CONSTR. MANAGER AND THE STRUCTURAL ENGINEER. NO TWO ADJOINING HORIZONTAL POURS (WITHIN THE BOUNDARIES SHOWN ON THE PLAN) SHALL BE MADE SOONER THAN SEVEN DAYS APART (CHECKER BOARD SYSTEM CAN BE USED).
2. ALL HORIZONTAL AND VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH THE CONSTRUCTION JOINTS. ADDITIONAL REINFORCING AT THE CONSTRUCTION JOINTS CAN BE INTRODUCED IF REQUIRED TO DEVELOP FULL LAP CAPACITY OF THE REINFORCING BARS IN TENSION.
3. BEFORE POURING ADJOINING AREA, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND THE STRUCTURAL BONDING ADHESIVE APPLIED AT ALL JOINTS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. ALL CONSTRUCTION JOINTS SHALL BE KEYED AS SHOWN ON THE DWG'S OR AS CALLED FOR IN GENERAL NOTES.



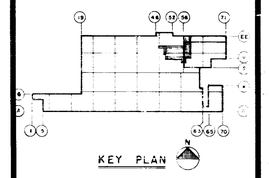
NOTES:

1. PA DESIGNATES SUPPORTED SLAB WHERE LETTER "P" REPRESENTS PLENUM AREA & LETTER "A" DESIGNATES SLAB TYPE, SLAB MARK FOR EX. "PA" REPRESENTS THE AREA OF SLAB OF CONSTANT THICKNESS OF 8" WITH MAIN REINF. OF #6@6 T/C + #3, IN DIRECTION AS NOTED ON PLAN & TEMP. REINF. IN TRANSVERSE DIRECTION.
2. IN CASE OF SLABS WITH DIFFERENT MAIN TOP REINF. HEAVIER TOP STEEL SHALL BE PROVIDED OVER COMMON SUPPORT.
3. WHERE TWO DIFFERENT SLAB (DESIGNATIONS) ARE PERPENDICULAR TO EACH OTHER EXTEND MAIN TOP REINF. MIN. 6'-0" INTO ADJAC. SLAB.

1ST FLOOR FRAMING PLAN · PLENUM AREA

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

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-23-77	PRIME MECH & ELECT. REF.		
4-28-77	CONCRETE PLENUM BLDG.	R. J. Heard	W. J. Allen
4-28-77	FIRST FLOOR CONCRETE BLDG.	R. J. Heard	W. J. Allen
5/11/77	REF. FOR P.C. #18		



NO.	DATE	BY	APPROVAL	APPROVAL
142	6-15-78	D.G.	AS BUILT	
44	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	B.K.		
P.C. 28	5/20/77	E.K.		
P.C. 17	5/10/77	B.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
645 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

1ST FLOOR SUPPORTED SLAB · PLENUM AREA

SHEET TITLE

OWNER'S IDENTIFICATION — 4500 R.E.S.C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY ALCINI DROSKY

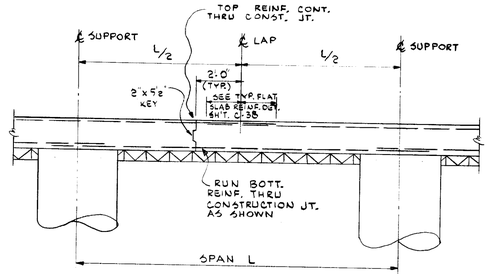
JOB CAPT. KUCZYNSKI

C-27

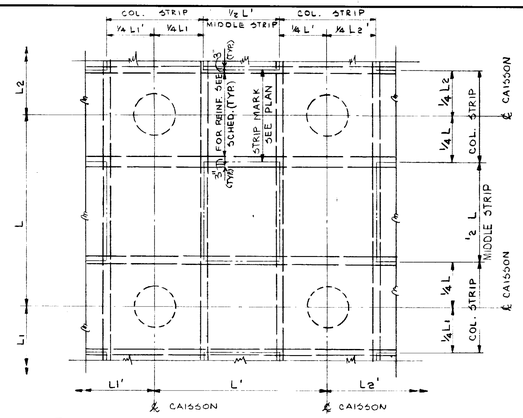
SHEET NUMBER

ARGO 118 REV. 12-68 K&E 17 0193 2-74 1790+

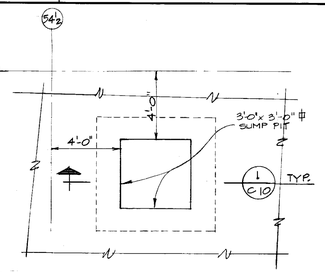
PROJECT NO. SHEET NO.



TYP. CONSTRUCTION JOINT DETAIL FOR PLENUM FL. SLAB

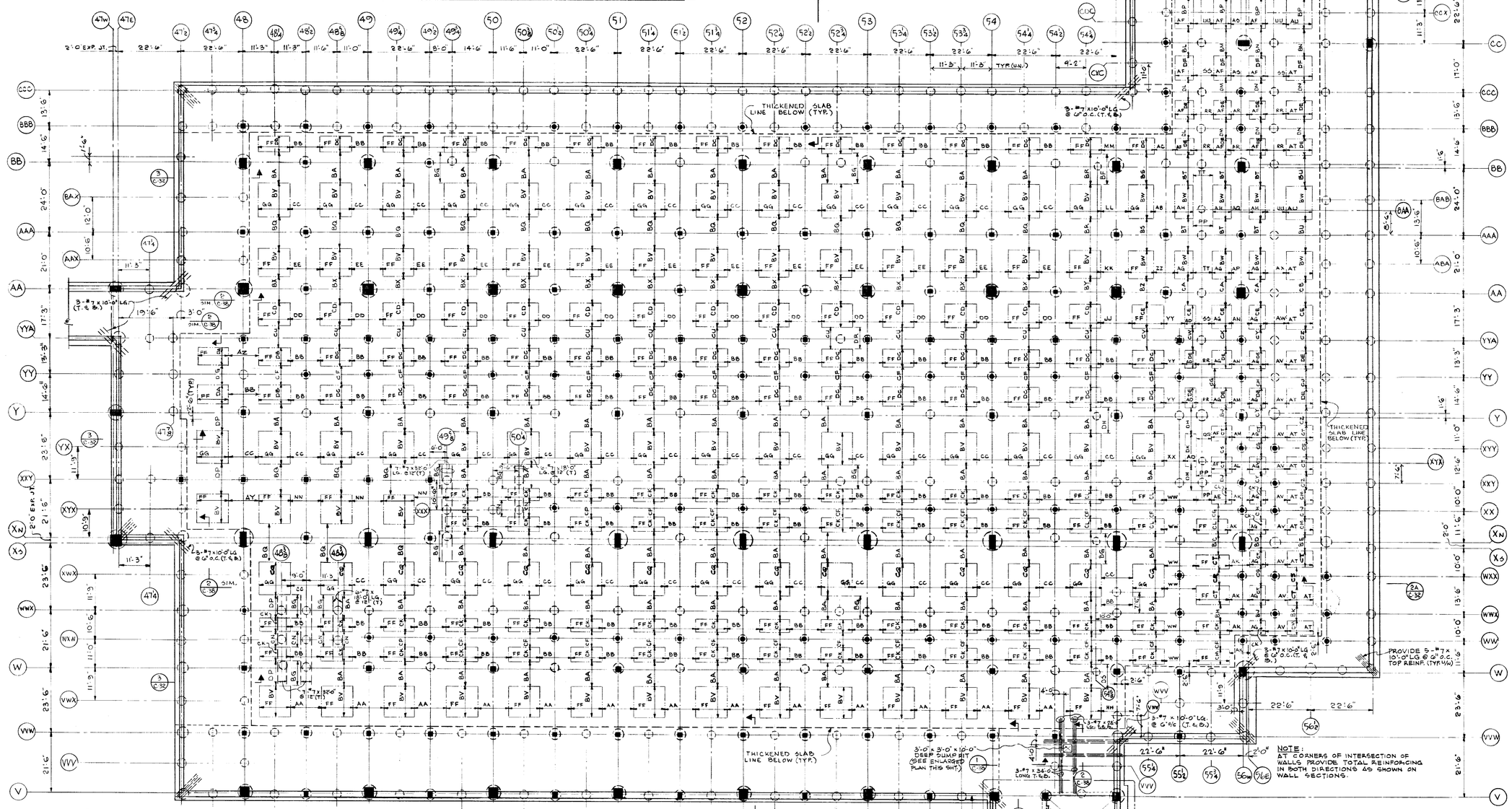


TYPICAL ARRANGEMENT FOR COL. AND MIDDLE STRIPS



ENLARGED PLAN OF SUMP PIT

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

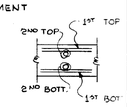


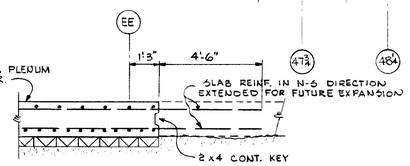
NOTE:
AT CORNERS OF INTERSECTION OF WALLS PROVIDE TOTAL REINFORCING IN BOTH DIRECTIONS AS SHOWN ON WALL SECTIONS.

NOTES:
1. INTERIOR WALLS NOT SHOWN FOR CLARITY SEE SH'T C3 & C-26 FOR LOCATIONS & TYPES.
2. FLOOR DESIGN LIVE LOAD TO BE 200 P.S.F.

NOTE:
PLENUM FLOOR SLAB REINFORCEMENT TO BE PLACED IN THE FOLLOWING SEQUENCE:

1ST TOP LAYER IN E-W DIRECTION
2ND TOP LAYER IN N-S DIRECTION
2ND BOTT. LAYER IN N-S DIRECTION
1ST BOTT. LAYER IN E-W DIRECTION



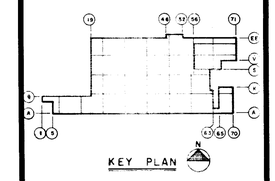


1 / C-28

PLENUM FLOOR SLAB FRAMING PLAN

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

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-28-77	B. CONST. TR. & PLENUM FLOOR		
4-28-77	FIRST FLOOR CONST. - 3 PLS		
5/11/77	REF. FOR P.C. 11B		



KEY PLAN

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-75	D.G.	AS BUILT	
85	9-9-77	E.K.	754/Ok	MC/RW
70	8-1-77	V.A.	754/Ok	MC/RW
44	7-15-77	A.C.	754/Ok	
61	7-7-77	E.K.	754/Ok	
24	6/25/77	E.K.	754/Ok	
P.C. 28	6/20/77	E.K.	754/Ok	
P.C. 17	5/10/77	E.K.	754/Ok	

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

GENERAL OFFICES: 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN

ARCHITECTURE, ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT

FOR

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

PLENUM FLOOR PLAN

SHEET TITLE

OWNER'S IDENTIFICATION

P. E. & C. PROJECT NUMBER 4500

DATE 4-28-77

DRAWN BY BROSKY

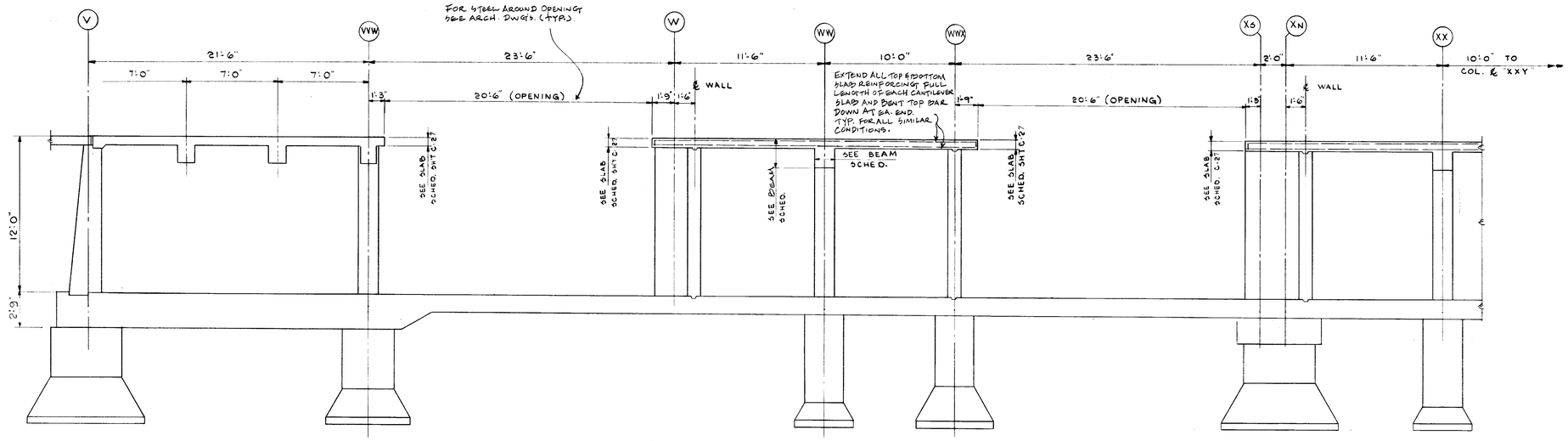
JOB CAPT. E. KUCZYNOKI A. CHU

C-28

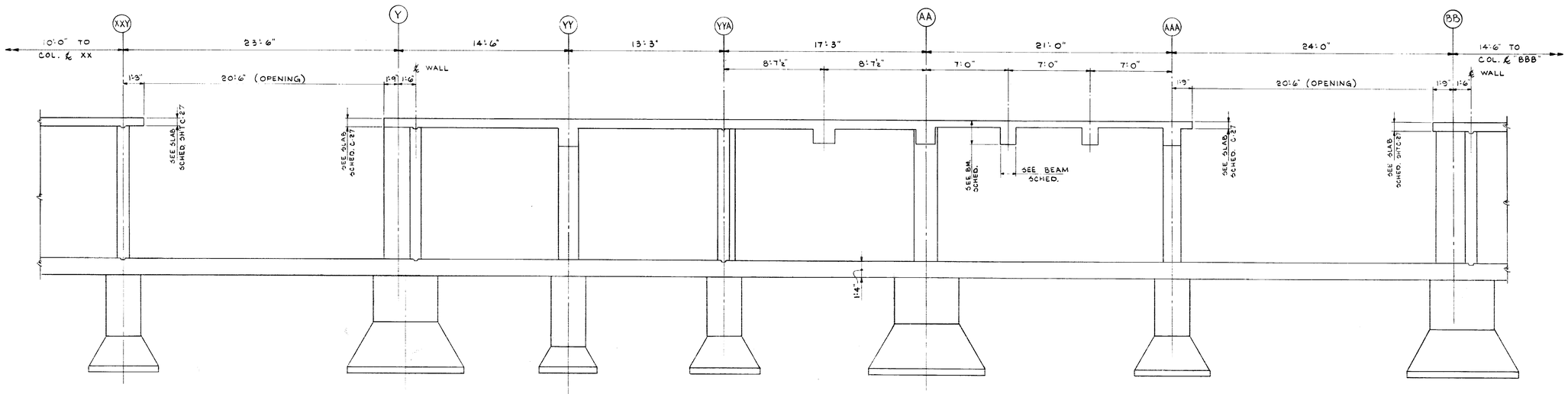
SHEET NUMBER

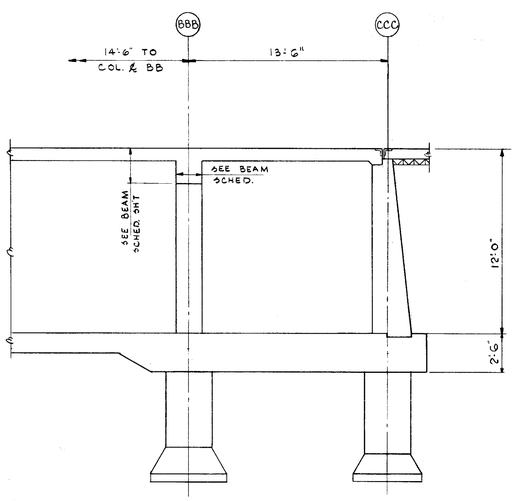
ARGO 118 REV. 12-69 K&E 17 0193 2-74 1750»

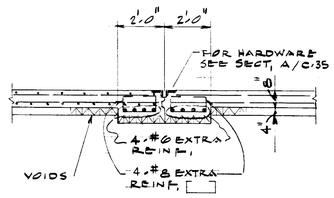
PROJECT NO. SHEET NO.



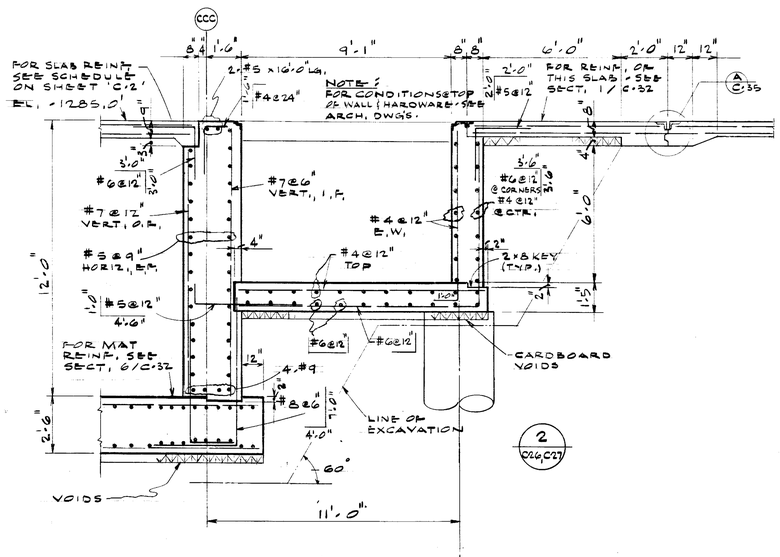
1
C3, C26, C27 1/4" = 1'-0"







3
C26, C27



2
C26, C27

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-25-77	PRIME MECH & ELECT EQP.		
3-21-77	CAISSON BIDS	R. J. Meade	J. Kendrick
4-28-77	CONCRETE BLDG. BIDS	R. J. Meade	W. Olsen
4-28-77	CONCRETE BIDS	R. J. Meade	W. Olsen

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
70	8-1-77	W.A.		
44	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
RC.17	5-10-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

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

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

GENERAL MOTORS CORPORATION

NEW MANUFACTURING PLANT

OKLAHOMA CITY AUTHORITY

BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

SECTIONS

SHEET TITLE

OWNER'S IDENTIFICATION

ARGONAUT PROJECT NUMBER 4500

DATE 4-28-77

DRAWN BY BROSKY

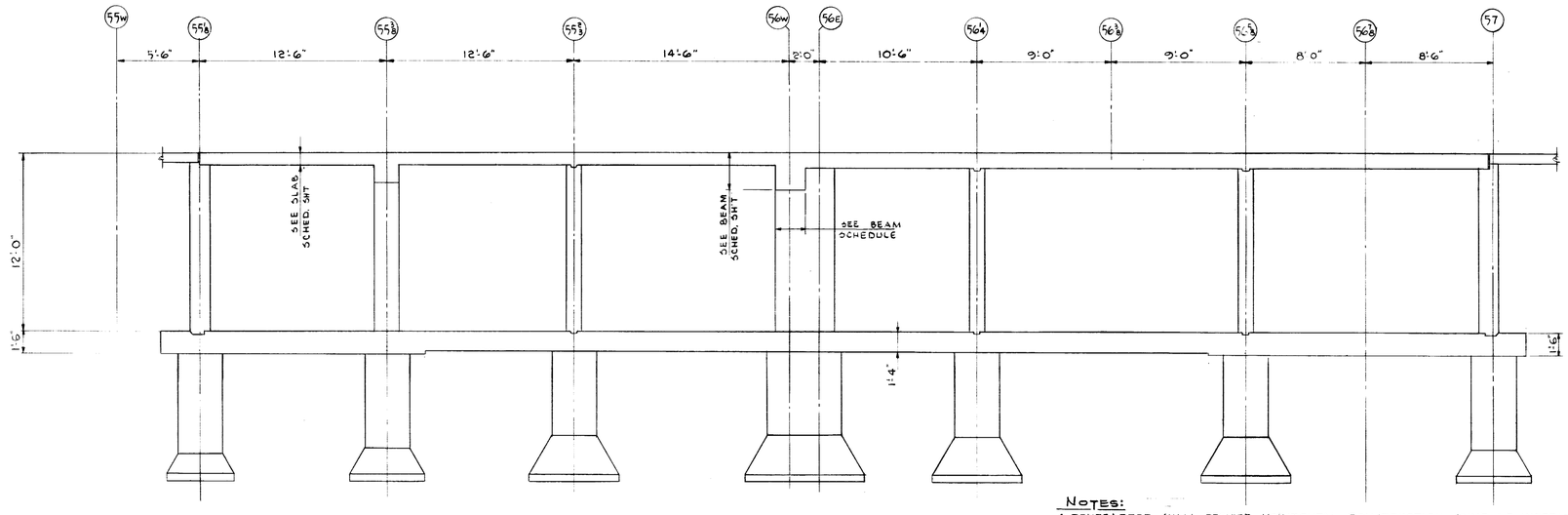
JOB CAPT. KUCZYNSKI

C-29

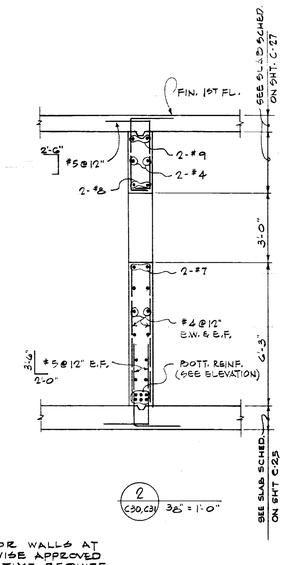
SHEET NUMBER

ARGO 116 REV. 12-69 K&E 17 0159 2-74 1750-

PROJECT NO. SHEET NO.



1 / C-2G, C-3



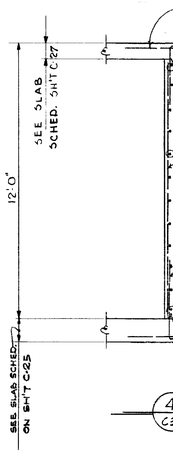
2 / C30, C31 3/8" = 1'-0"

NOTES:

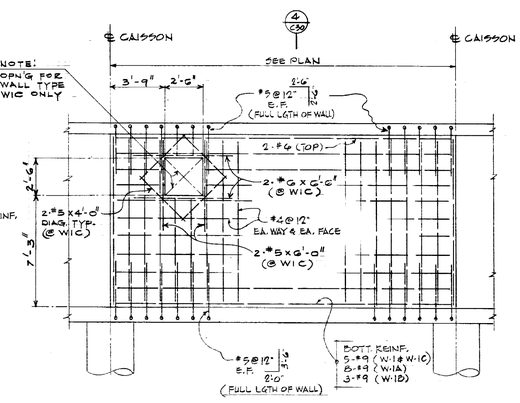
1. CONTRACTOR SHALL PROVIDE HORIZONTAL CONSTRUCTION JOINT AT INTERIOR WALLS AT APPX. 0'-3" ABOVE FIN. LINE FROM PLENUM FLOOR SLAB UNLESS OTHERWISE APPROVED IN WRITING BY P.E. & C. STRUCTURAL DEPT. *SEE SPEC. ALSO FOR TIME REQUIREMENTS BETWEEN THE POURS & THE USE OF STRUCTURAL BONDING ADHESIVE.

   * NOTE THAT ALL VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGHOUT HORIZ. CONSTRUCTION JOINT.

2. FOR TERMINATION OF HORIZ. WALL REINF. SEE TYP. PIER DET'S & CONTROL JOINTS.

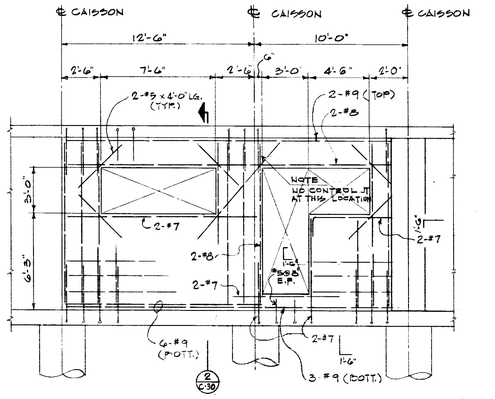


4 / C30



TYPICAL ELEVATION · WALL TYPE "W-1", W-1A, W-1B & W-1C

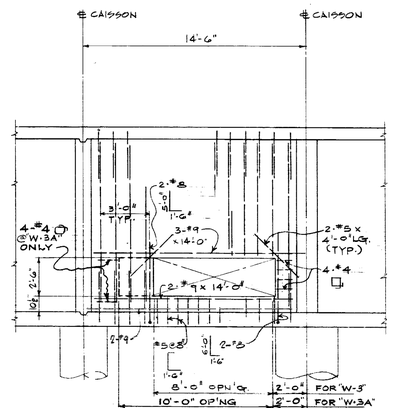
SEE DETAIL, SHEET C-31a.



2 / C30

NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" UNLESS OTHERWISE NOTED.

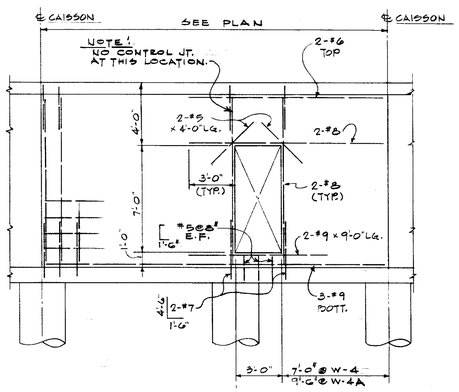
TYPICAL ELEVATION · WALL TYPE "W-2"



NOTE: FOR ALL REINF. SEE WALL TYPE "W1" UNLESS OTHERWISE NOTED.

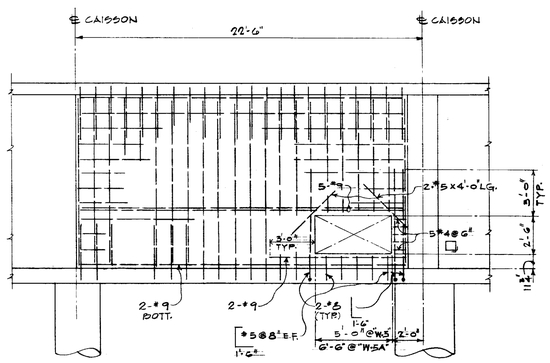
ELEVATION · WALL TYPE "W-3" & "W-3A"

SEE DETAIL, SHEET C-31a



NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON THIS SHT. (U.O.N.)

TYPICAL ELEVATION · WALL TYPE "W-4" & "W-4A"

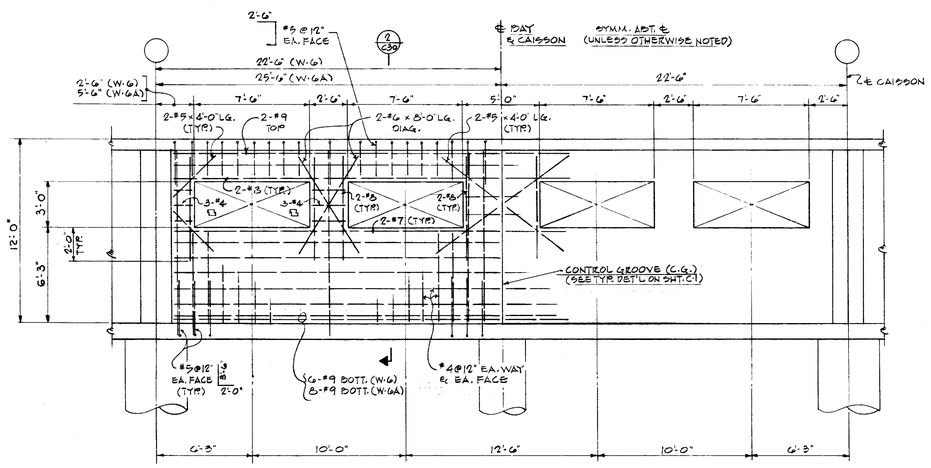


NOTE

FOR REINF. SEE WALL TYPE "W1" ON THIS SHT. UNLESS OTHERWISE NOTED

TYPICAL ELEVATION · WALL TYPE "W-5" & "W-5A"

SEE DETAIL, SHEET C-31a.



TYPICAL ELEVATION · WALL TYPE "W-6" & "W-6A"

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

NOTE:
CONTRACTOR SHALL VERIFY ALL WALL OPENINGS WITH ARCHITECTURAL & MECHANICAL DRAWINGS.

DATE	ISSUED FOR	APPROVAL	APPROVAL
3-23-77	FRIMB MECH & SUBST REF.		
3-21-77	CAISSON BIDS	R. J. Meaux	J. E. Cummins
4-28-77	CONCRETE PLENUM BIDS	R. J. Meaux	W. J. Allen
4-29-77	FIRST FLOOR CONCRET 5-05	R. J. Meaux	W. J. Allen
5-25-77	PAINT SLUDGE & STEM REF		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
85	5-2-77	E.K.		MK/RW
70	8-1-77	W.A.		
48	7-13-77	A.C.		
61	7-7-77	E.K.		
26	5/25/77	E.K.		
P.C. 18	5-20-77	E.K.		
P.C. 17	5/10/77	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

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

ARCHITECTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MARGARET PLANT

OKLAHOMA CITY, OKLAHOMA

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY, OKLAHOMA

PROJECT TITLE

WALL ELEVATIONS AND SECTIONS

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P.E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY DROSLY

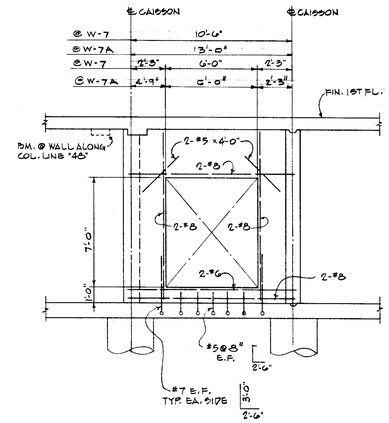
JOB CAPT. KUCZYNSKI

C-30

SHEET NUMBER

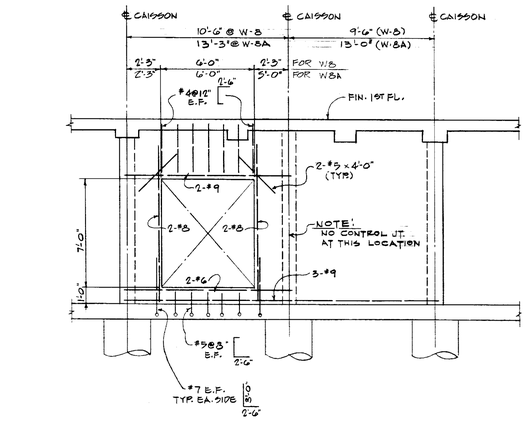
ARGO 118 REV. 12-69 KME 17 0193 2-74 1790+

PROJECT NO. SHEET NO.



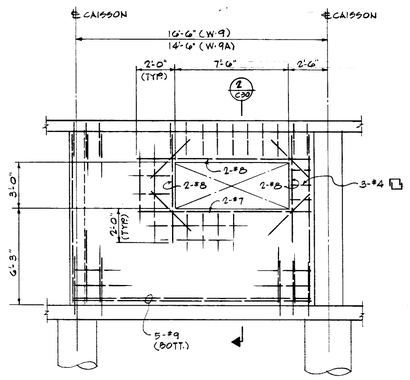
NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SHT. C-30 (UNLESS OTHERWISE NOTED.)

ELEVATION · WALL TYPE "W-7" & "W-7A"



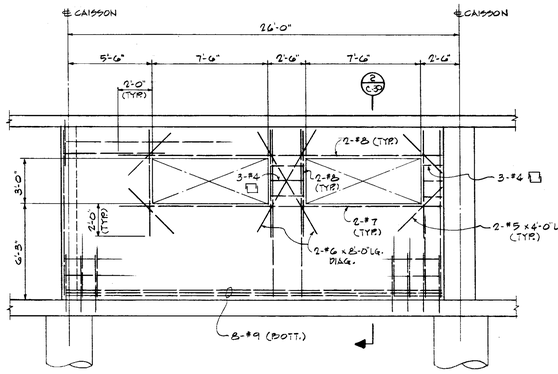
NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SHT. C-30 (U.O.N.)

ELEVATION · WALL TYPE "W-8" & "W-8A"



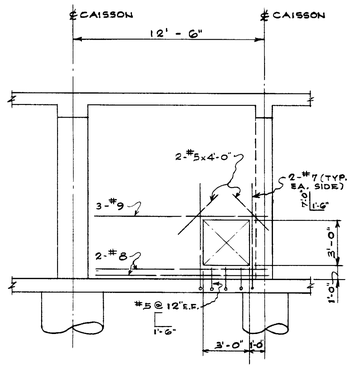
NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SHT. C-30 (U.O.N.)

ELEVATION · WALL TYPE "W-9" & "W-9A"



NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SHT. C-30 (U.O.N.)

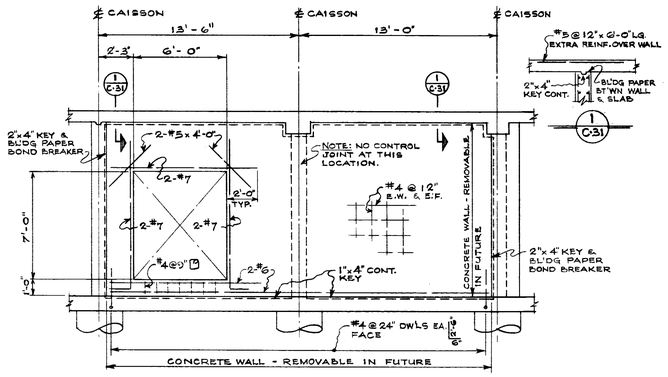
ELEVATION · WALL TYPE "W-10"



NOTE: FOR ALL REINF. SEE WALL TYPE "W1" ON SH'T C-30 (U.O.N.)

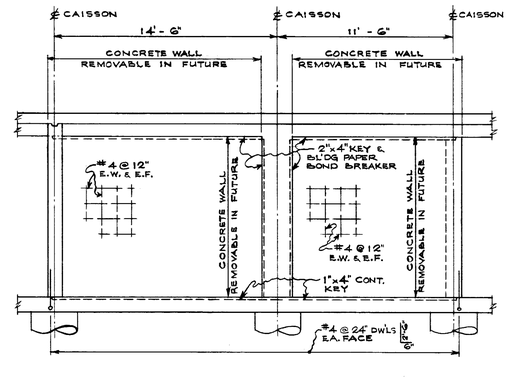
ELEVATION · WALL TYPE "W11"

SEE DETAIL, SHEET C-31a.



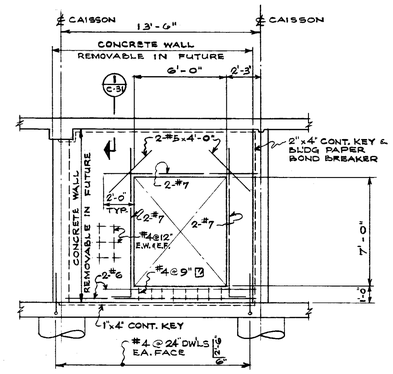
NOTE: FOR ALL REINF. SEE WALL TYPE "W-1 ON SH'T C-30 (U.O.N.)

ELEVATION - WALL TYPE "W12"



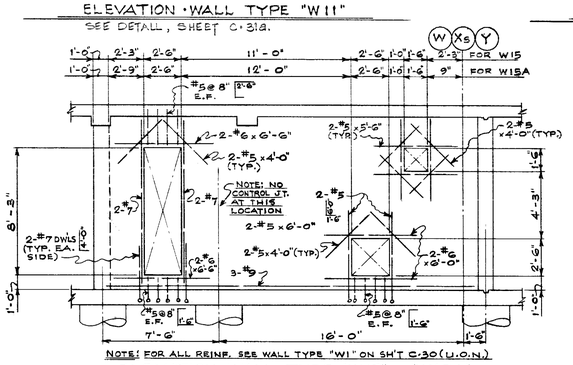
NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SH'T C-30 (U.O.N.)

ELEVATION - WALL TYPE "W13"



NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SH'T C-30 (U.O.N.)

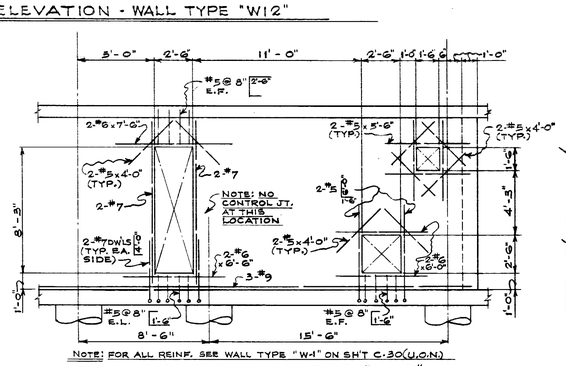
ELEVATION - WALL TYPE "W14"



NOTE: FOR ALL REINF. SEE WALL TYPE "W1" ON SH'T C-30 (U.O.N.)

ELEVATION-WALL TYPE "W15" & "W15A"

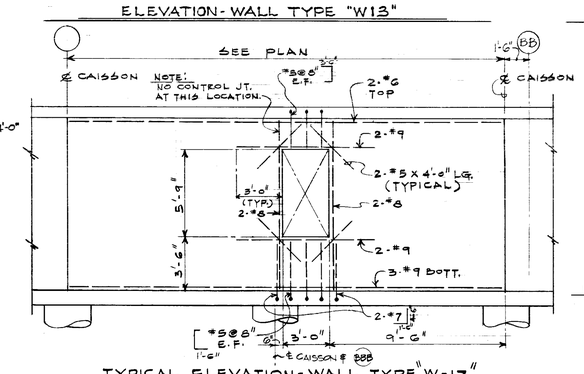
SEE DETAIL, SHEET C-31a.



NOTE: FOR ALL REINF. SEE WALL TYPE "W-1" ON SH'T C-30 (U.O.N.)

ELEVATION - WALL TYPE "W-16"

SEE DETAIL, SHEET C-31a.



NOTE:
FOR ALL REINF. SEE WALL TYPE "W1" SHT. C-30 (U.O.N.)

TYPICAL ELEVATION-WALL TYPE "W-17"

NOTE:
CONTRACTOR SHALL VERIFY ALL WALL OPENINGS WITH ARCHITECTAL & MECHANICAL DRAWINGS.

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-28-77	BIDDING SET		
4-28-77	FOR BIDDING		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-17-78	D.G.	AS BUILT	
85	9-9-77	E.K.		
70	8-1-77	W.A.		
44	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5-25-77	E.K.		

REVISIONS

CONTRACT SIGNATURES

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FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

PLANT ENGINEERING AND CONSTRUCTION

MANUFACTURING STAFF

ARGONAUT

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

ARCHITECTURE • ENGINEERING • REAL ESTATE • CONSTRUCTION MANAGEMENT

GM ASSEMBLY DIVISION

PROJECT TITLE

PLENUM WALL ELEVATIONS AND DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500 P.S.&C. PROJECT NUMBER

DATE 4-28-77

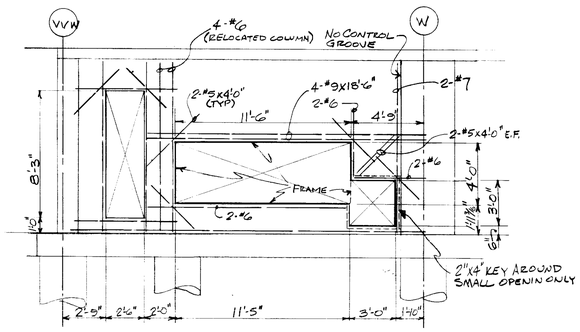
DRAWN BY ALCINI NAGY

JOB CAPT. KUCZYNSKI

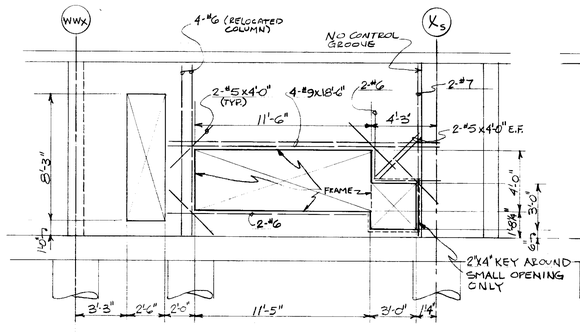
C-31 SHEET NUMBER

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

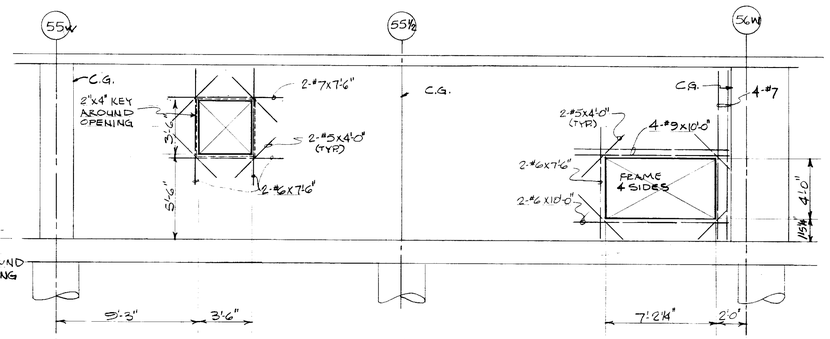
PROJECT NO. SHEET NO.



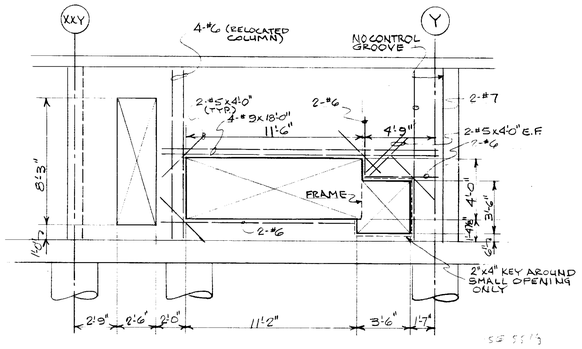
W-15 @ COL. LINE 55
FOR ADDITIONAL REINFORCING SEE
W-1 SHT. C-30 AND W-15 SHT. C-31



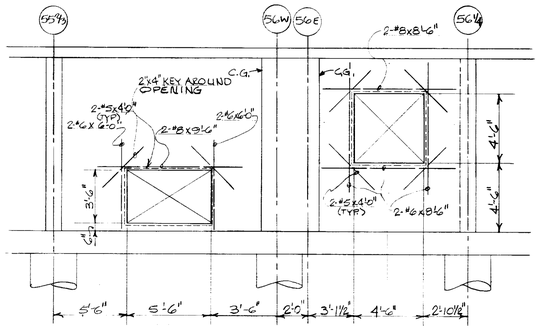
W-15A @ COL. LINE 55
FOR ADDITIONAL REINFORCING SEE
W-1 SHT. C-30 AND W-15A SHT. C-31



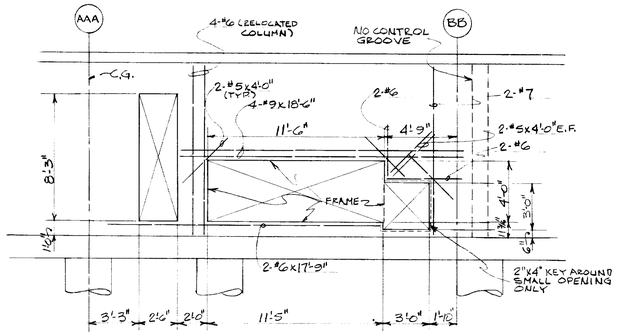
WALL W-1C @ COL. LINE XN WALL W-5
FOR ADDITIONAL REINFORCING SEE
W-1 SHT. C-30 AND W-5 SHT. C-31



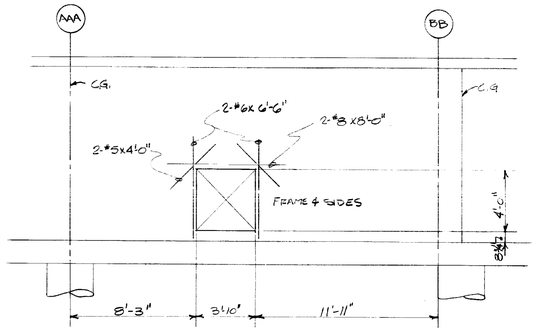
W-15 @ COL. LINE 55⅔
FOR ADDITIONAL REINFORCING SEE
W-1 SHT C-30 AND W-15 SHT. C-31.



W-3A @ COL. LINE Y W-11
FOR ADDITIONAL REINFORCING SEE W-1 SHT C-30,
W-3A SHT. C-30 AND W-11 SHT. C-31



W-16 @ COL. LINE 55⅔
FOR ADDITIONAL REINFORCING SEE
W-1 SHT. C-30 AND W-16 SHT. C-31



W-1 @ COL. LINE 56¼
FOR ADDITIONAL REINFORCING
SEE W-1 SHT. C-30

NOTE:
THIS SHEET ISSUED WITH
BULLETIN # 142.

DATE	ISSUED FOR	APPROVAL	APPROVAL
6-19-78	BULL #142	AS BUILT	

NO.	DATE	BY	APPROVAL	APPROVAL

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
DATE

Plant Engineering & Construction
General Motors Corporation 485 West Milwaukee Avenue Detroit, Michigan 48202

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

PROJECT TITLE

PLENUM WALL ELEVATIONS AND DETAILS

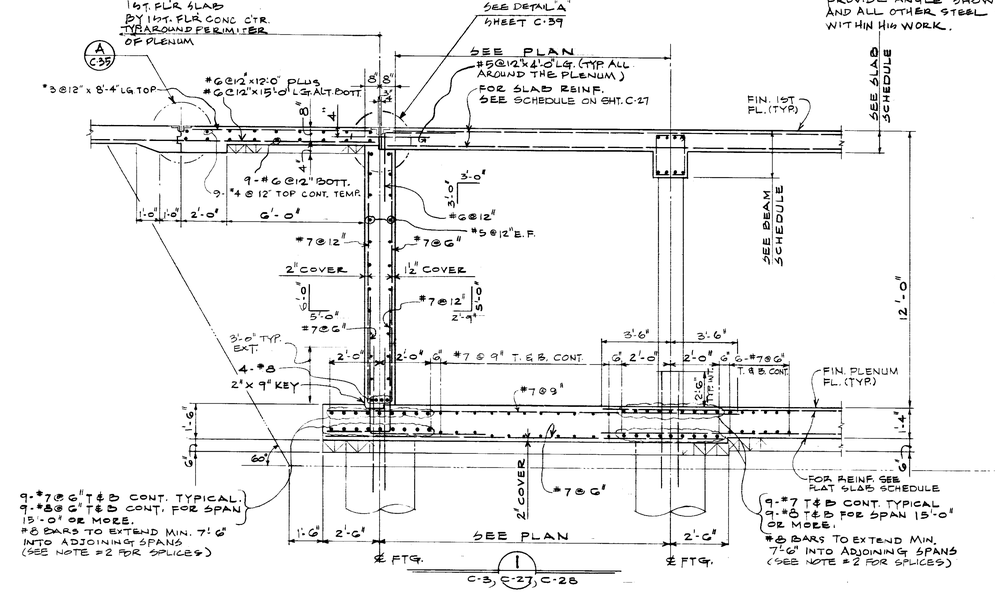
SHEET TITLE

OWNER'S IDENTIFICATION
P.E. & C. PROJECT NUMBER 4500
DATE
DRAWN BY M. THOMPSON
JOB CAPT. M. THOMPSON
SHEET NUMBER C·31a

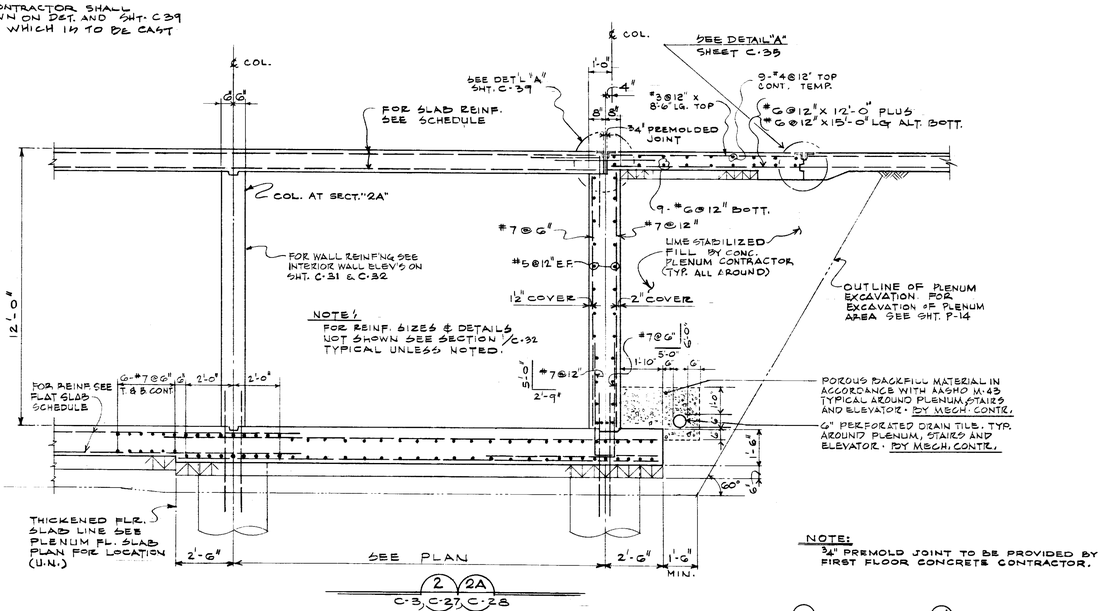
P.E. & C. 145 REV. 1-77 K&E 17-0153 8-77 3321•

PROJECT NO. SHEET NO.

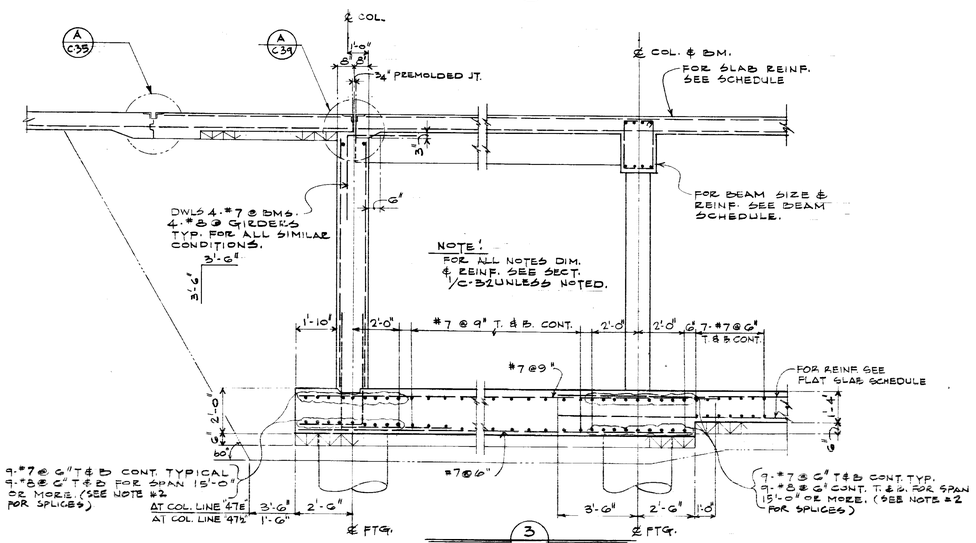
NOTE: CONCRETE PLENUM CONTRACTOR SHALL PROVIDE ANGLE SHOWN ON DET. AND SHT. C39 AND ALL OTHER STEEL WHICH IS TO BE CAST WITHIN HIS WORK.



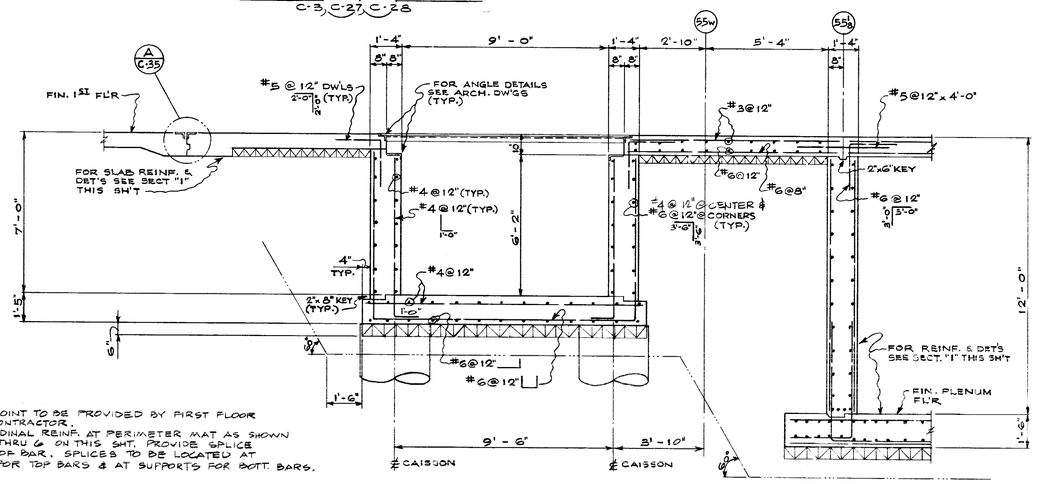
1
C-3, C-27, C-28



2 2A
C-3, C-27, C-28

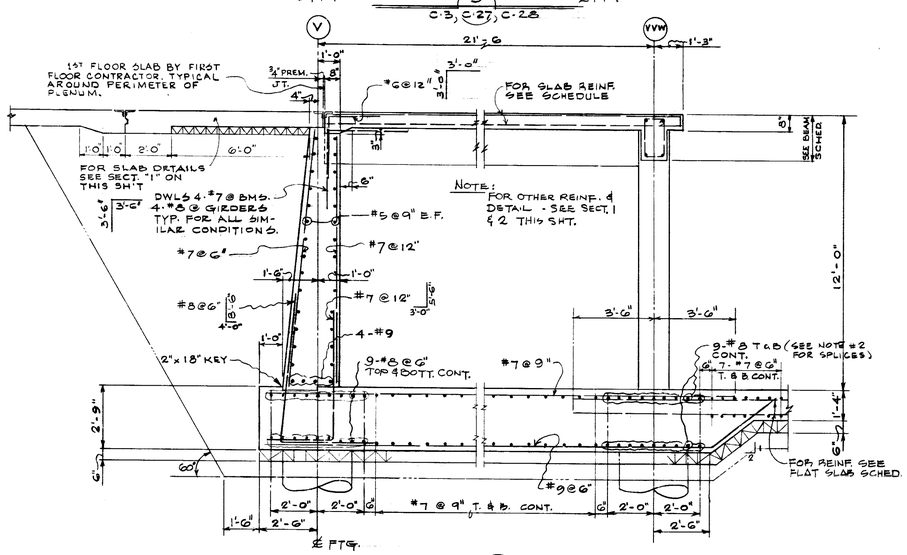


3
C-3, C-27, C-28

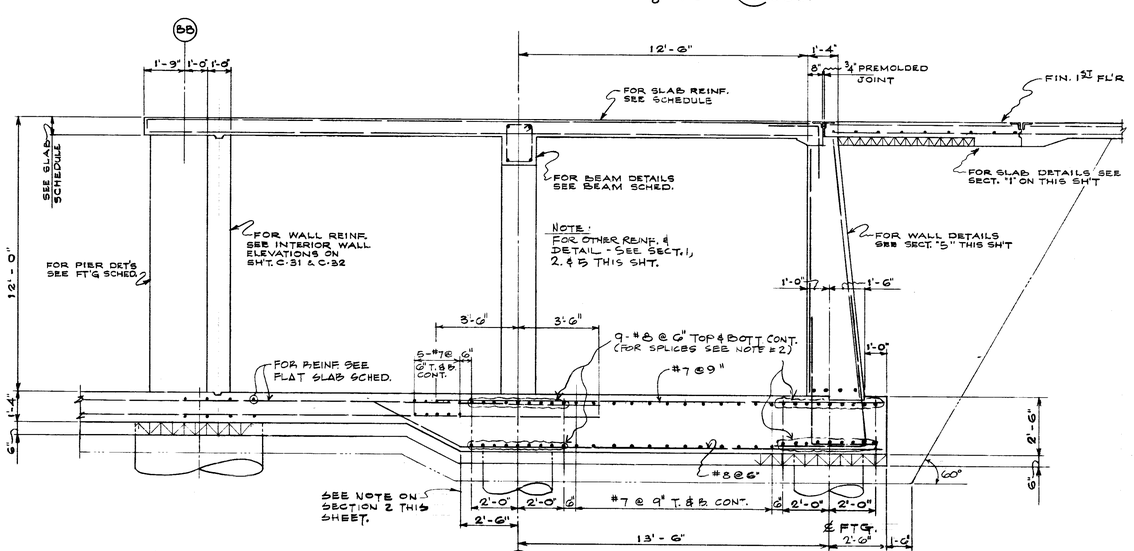


NOTES:
1. 3/4" PREMOLD JOINT TO BE PROVIDED BY FIRST FLOOR CONCRETE CONTRACTOR.
2. FOR LONGITUDINAL REINF. AT PERIMETER MAT AS SHOWN ON SECT'S 1 THRU 6 ON THIS SHT. PROVIDE SPLICE MIN. 40 DIA. OF BAR. SPLICES TO BE LOCATED AT MID-SPAN FOR TOP BARS & AT SUPPORTS FOR BOTT. BARS.

4
3/8" = 1'-0"
C-26 & C-27



5
C-3, C-27, C-28



6
C-3, C-27, C-28

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-28-77	PLENUM BIDS		
4-28-77	FIRST FLOOR CONCRETE BIDS		
5-27-77	PAINTING & FINISHING REF.		
6-6-77	PAINT SLUDGE SYSTEM REF.		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
44	7-15-77	A.C.		
101	7-7-77	E.K.		
24	5/25/77	E.K.		
P.C.18	5-20-77	E.K.		
P.C.18	5-11-77	E.K.		
P.17	5/10/	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONA CORPORATION

PLANT ENGINEERING AND CONSTRUCTION
MANUFACTURING STAFF
GENERAL MOTORS CORPORATION
485 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

SECTIONS

SHEET TITLE

OWNER'S IDENTIFICATION

DATE 4-28-77

DRAWN BY R. TAYLOR, R. NAGY

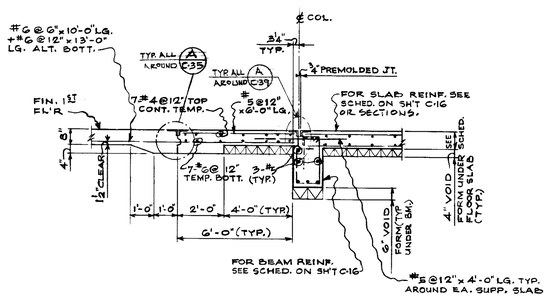
JOB CAPT. E. KUCZYNSKI

4500
P.E. & C. PROJECT NUMBER

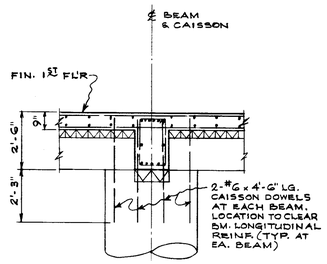
C-32
SHEET NUMBER

ARGO 118 REV. 12-69 KAE 17 0533 2-74 1790

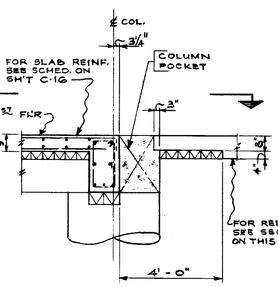
PROJECT NO. SHEET NO.



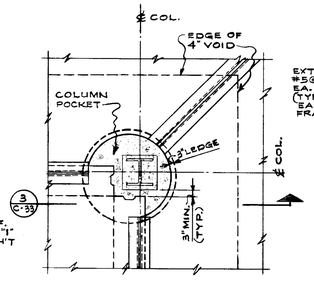
1 C-16 3/8" = 1'-0"



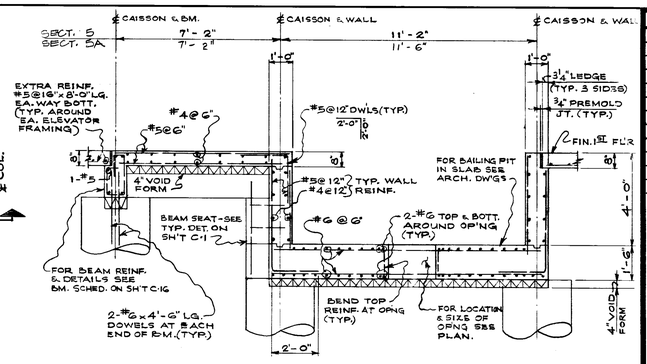
2 C-16 3/8" = 1'-0"



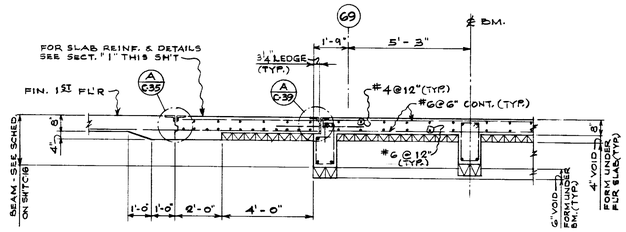
3 C-16 C-33 3/8" = 1'-0"



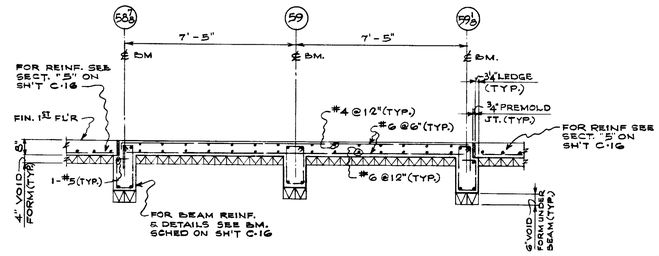
4 C-33 3/8" = 1'-0"



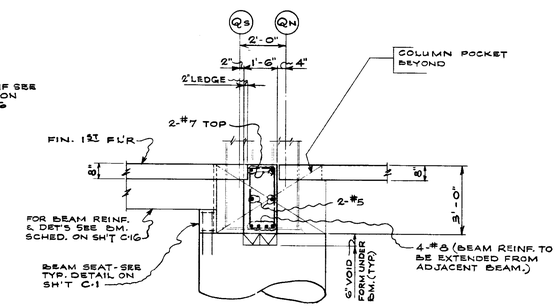
5 C-16 5A C-16 3/8" = 1'-0"



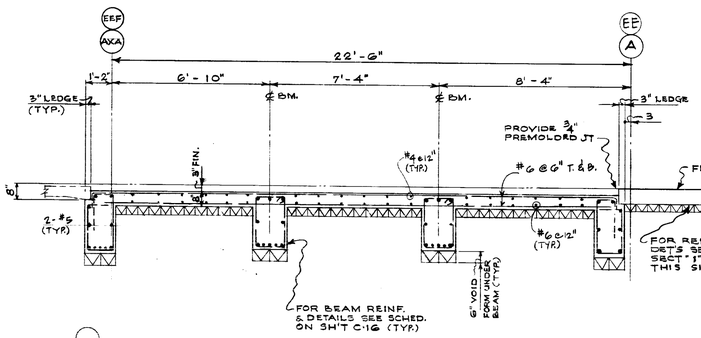
6 C-16 3/8" = 1'-0"



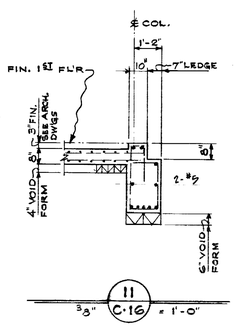
8 C-16 3/8" = 1'-0"



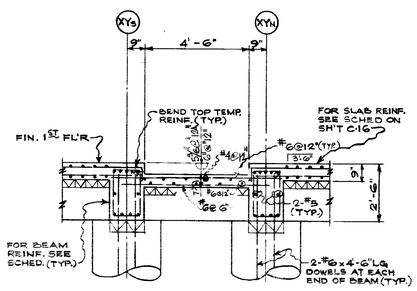
9 C-16 3/8" = 1'-0"



10 C-16 3/8" = 1'-0"

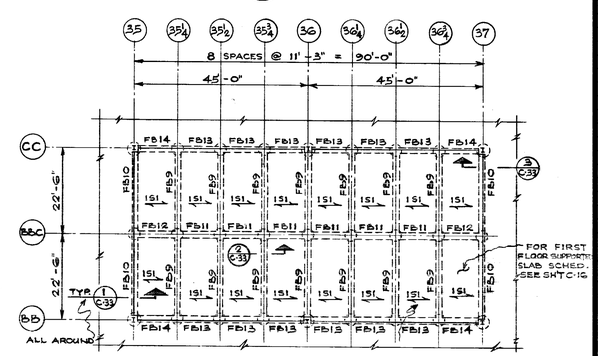


11 C-16 3/8" = 1'-0"

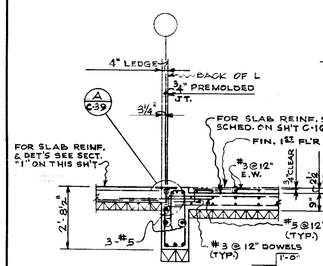


12 C-16 12A C-16 3/8" = 1'-0"

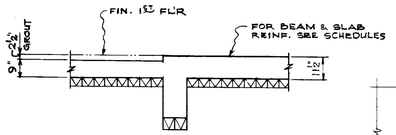
NOTE: SECT. "12A" FROM GRID "23½" TO GRID "24"
SECT. "12" FROM GRID "24" TO GRID "25"



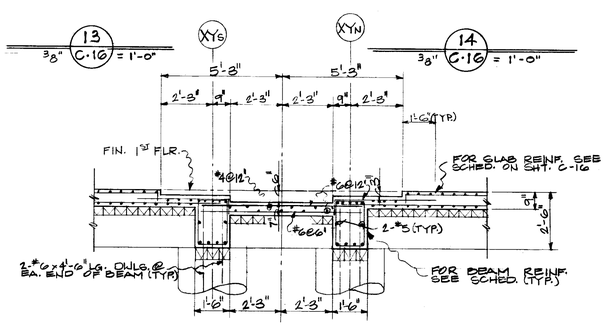
FIRST FLOOR SUPPORTED SLAB FRAMING PLAN
1/16" = 1'-0"



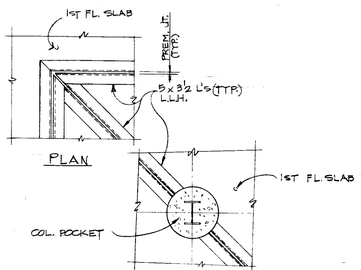
13 C-16 3/8" = 1'-0"

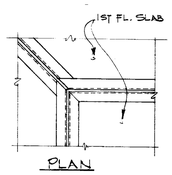


14 C-16 3/8" = 1'-0"



15 C-16 3/8" = 1'-0"





TYPICAL FLOOR ANGLE DETAILS AT CORNERS AND COLUMN POCKETS
NOTE: SEE ALSO SECT 4 C-33

CONCRETE BEAM SCHEDULE

BEAM MARK	SIZE (b x d)	SHAPE	LONGITUDINAL REINFORCING: STRAIGHT BOTTOM	TOP: STRAIGHT CONT.	TOP: OVER SUPPORT	PLACEMENT	STIRRUP REINFORCING: SIZE	TYPE	SPACING EACH END U.N.	REMARKS
FB24	16" x 32½"		5-#9	3-#9	2-#8 x 15'-0" LG. AT CONT. SUPPORT		#3		@ 12" O.C. THRU-OUT	LAP TOP REINF. AT MID-SPAN.
FB25	20" x 32½"		6-#9	4-#9	2-#8 x 15'-0" LG. AT CONT. SUPPORT		#4		12 @ 6" AT CONT. SUPPORT. REMAINDER @ 12" O.C.	TOP REINF. AT CONT. SUPT. IN 2 LAYERS. EXTEND TOP REIN. 7'-6" INTO "FB26".
FB26	20" x 32½"		6-#9	3-#9	4-#9 + 2-#8 FROM "FB25" (2 LAYERS)		#4		12 @ 6" AT CONT. SUPPORT. REMAINDER @ 12" O.C.	EXTEND TOP REINF. 7'-6 INTO "FB25".
FB27	20" x 32½		5-#10	3-#9	2-#9 x 15'-0" LG. AT CONT. SUPPORT		#4		do.	BEND & EXTEND TOP REINF 7'-6" INTO "FB28".
FB28	20" x 30"		5-#10 (EXTEND 3'-6" INTO FB27)	4-#9	3-#9 + 2-#9 FROM "FB27" (2 LAYERS)		#4		8 @ 9" (3 PER SET) AT CONT. SUPPORT. REMAINDER @ 12" (1 PER SET)	BEND & EXTEND TOP REINF. 7'-6" INTO "FB27".
FB29	12" x 32½"		2-#8	2-#6	—		#3		@ 12" O.C. THRU-OUT	BEND TOP REINF. AT DISC END.
FB30	12" x 32½"		2-#8	2-#6	—		#3		do.	LAP TOP REINF. AT MID-SPAN.
FB31	14" x 32½"		2-#8	2-#6	—		#3		do.	BEND TOP REINF. AT DISC. END
FB32	14" x 32½"		2-#8	2-#6	—		#3		do.	LAP TOP REINF. AT MID-SPAN.
FB33	16" x 30"		3-#8	4-#8	—		#3		do.	EXTEND TOP & BOTT. REINF INTO "FB34".
FB34	16" x 30"		3-#8 CONT. FROM FB33	—	4-#8 FROM FB33 & 4-#9 FROM FB34		#3		do.	LAP TOP REINF. AT MID-SPAN.
FB35	16" x 32½"		4-#9	4-#9	—		#3		6 @ 8" AT CONT. SUPPORT. REMAINDER @ 12" O.C.	BEND & EXTEND TOP REINF. INTO "FB34".
FB36	14" x 30"		3-#7	3-#8	—		#3		@ 12" O.C. THRU-OUT	EXTEND TOP & BOTT. REINF. INTO "FB37".
FB37	14" x 30"		3-#7 CONT. FROM FB36	—	3-#8 FROM FB38 & 3-#9 FROM FB39		#3		do.	LAP TOP REINF. AT MID-SPAN.
FB38	14" x 32½"		3-#9	3-#9	—		#3		do.	BEND & EXTEND TOP REINF. INTO "FB37".
FB39	16" x 30"		5-#10	3-#7	—		#4		do.	BEND TOP REINF AT DISC END
FB40	16" x 24"		3-#6	3-#6	—		#3		do.	EXTEND TOP REINF. 4'-0" INTO FB39
FB41	18" x 30"		5-#11	3-#7	—		#4		do.	BEND TOP REINF. AT DISC. END
FB42	18" x 40"		5-#11	3-#8	—		#4		do.	do. SEE SECT. FOR TYPE OF STIRRUP AT END OF BM.

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-25-77	CONCRETE BIDS		
5-27-77	PAINTING & FINISHES, ECF.		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
ECO 327	6-1-78	DG		
EFOC8	3-30-77	J.C.		
70	5-1-77	W.A.		
50	7-21-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
PC.18	5-11-77	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 MILWAUKIE AVENUE & DETROIT, MICHIGAN

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

PROJECT TITLE

SECTIONS

SHEET TITLE

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

DATE 4-28-77

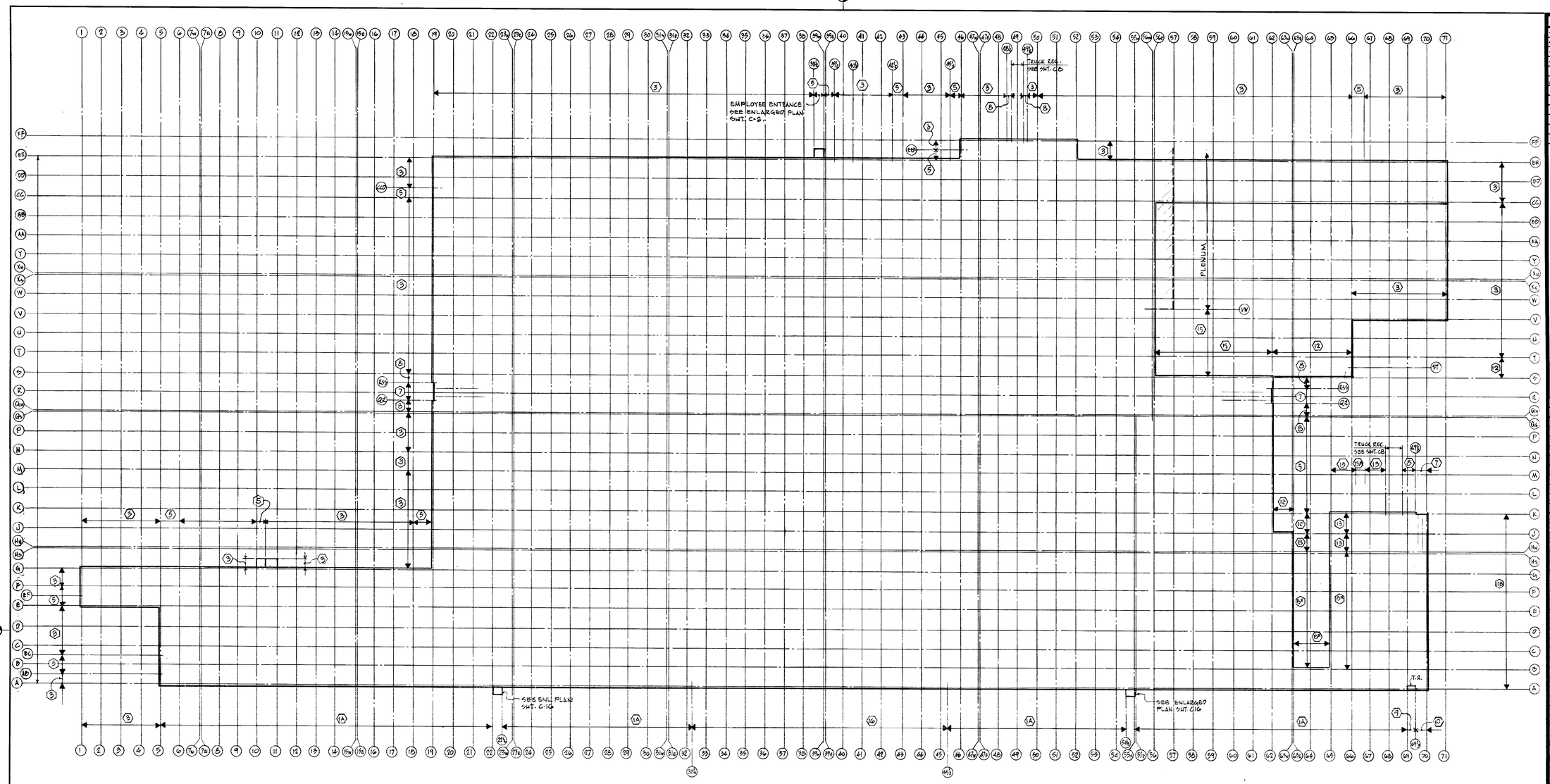
DRAWN BY R. NAGY

JOB CAPT. A. CHU

C-33 SHEET NUMBER

ARGO 118 REV. 12-69 KME 17 0193 8-74 1750+

PROJECT NO. SHEET NO.



NORTH

PLAN · EXTERIOR WALL & GRADE BEAM SYSTEMS

NOTE

FOR THE EXTERIOR TREATMENT OF THE MANUFACTURING BUILDING THE OWNER WILL RECEIVE BIDS FOR THREE TYPES OF PRECAST CONCRETE PANELS AND ONE TYPE OF METAL PANEL SIDING.

AFTER THE BIDS ARE RECEIVED THE OWNER WILL SELECT ONE, TWO OR POSSIBLY THREE OF THE METHODS TO BE USED FOR THE EXTERIOR TREATMENT OF THE BUILDING.

IN ORDER TO ALLOW FOR EASIER EVALUATION OF DIFFERENT EXTERIOR TREATMENTS OF THE BUILDING, A SYSTEM METHOD IS BEING USED COMPOSED OF SEPARATE PRICES AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

MARK THUS (A) ON THE PLAN INDICATES CONSIDERATION OF THREE SYSTEMS, #1, #1A OR #2 WITH BASE BID OF SYSTEM #2.

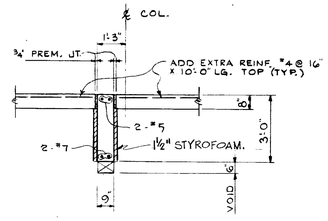
MARK THUS (B) ON THE PLAN INDICATES CONSIDERATION OF FOUR SYSTEMS, #1, #1A, #2 OR #3 WITH BASE BID SYSTEM #3.

MARK THUS ⬡ WITH A № INDICATES BASE BID SYSTEM WITHOUT ALTERNATES.

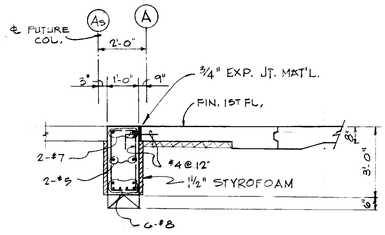
FOR ADDITIONAL INFORMATION SEE STRUCT. STEEL SHT. S24 & ARCH. DWG'S.

MARK THUS (C) ON THE PLAN INDICATES CONSIDERATION OF SYSTEM 11, 11A, 11B. SYSTEM #11 FOR TEE SECTION, SYSTEM #11A FOR FLAT PANELS & SYSTEM #11B FOR SIDING WITH BASE BID OF SIDING.

MARK (D) INDICATES SAME AS (B) EXCEPT THE CONSTRUCTION OF GRADE BEAMS MUST BE DONE AFTER FINISH GRADING IS COMPLETED IN AREA "G3" TO "G5" AND "B" TO "H"



SYSTEM #15



SYSTEM #16

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-7-77	MGT. ROOF DECK, MGT. SIDING, PRE CAST PANEL REF.		
4-18-77	FIRE PROT. BID	REF.	
4-29-77	CONTRACT PLENUM BIDS		
4-28-77	FIRST FLOOR CONCRETE BIDS		
5-27-77	PRINTING & FINISHING REF		
6-9-77	REF. 142		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-13-77	D.G.	AS BUILT	
75	6-9-77	E.K.		MK
70	5-31-77	W.A.		
61	7-7-77	E.K.		
39	6/10/77	E.K.		
24	5/25/77	E.K.		
RC 23	5-16-77	E.K.		
RC 18	5/11/77	E.K.		
RC 5	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

DIVISION OF GENERAL MOTORS CORPORATION 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

PLAN · EXTERIOR WALL & GRADE BEAM SYSTEMS

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P.E. & C. PROJECT NUMBER

DATE 4-28-77

DRAWN BY ALGINI

JOB CAPT. KUCZYNSKI

C·34

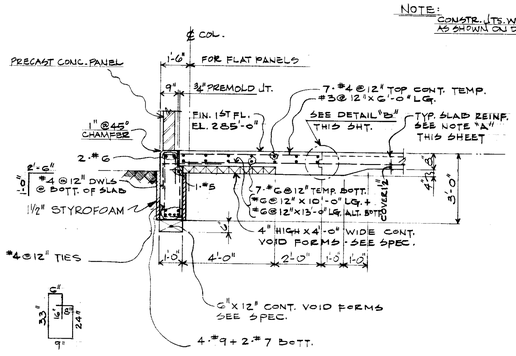
SHEET NUMBER

ARGO 118 REV. 12-69 KAE 17 0193 2-74 1790•

MAR 3 1978

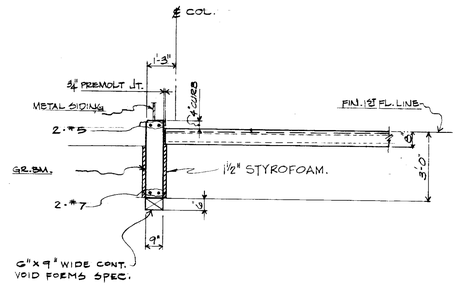
PROJECT NO. SHEET NO.

NOTE: CONSTR. JTS. WILL BE TURNED AS SHOWN ON DWGS.



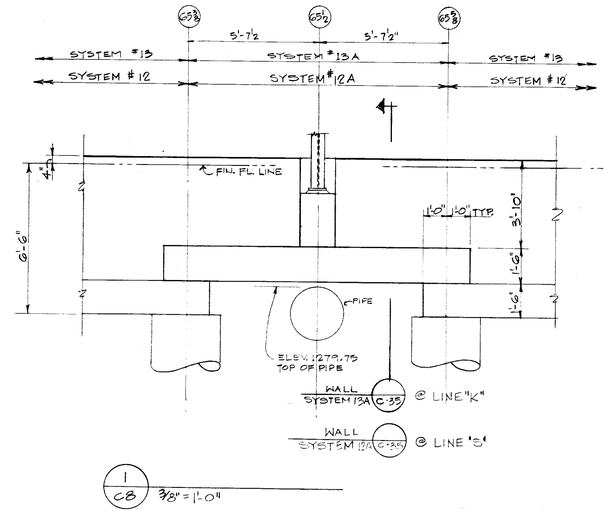
SECTION

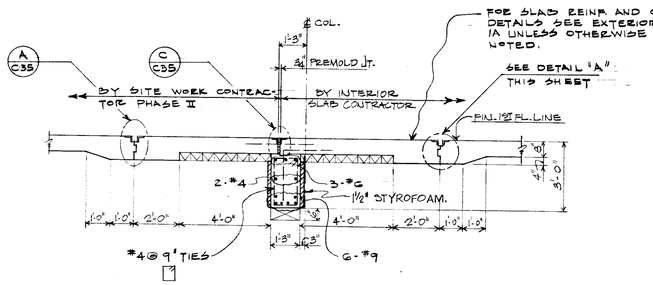
EXTERIOR SYSTEM 1A



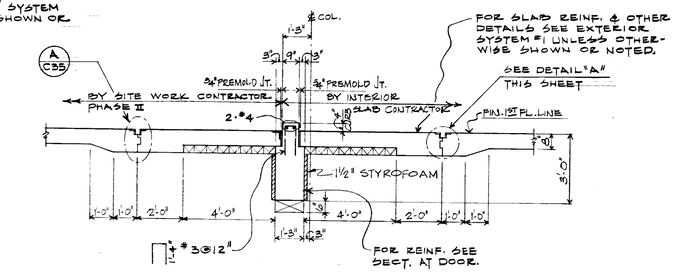
SECTION

EXTERIOR SYSTEM 3



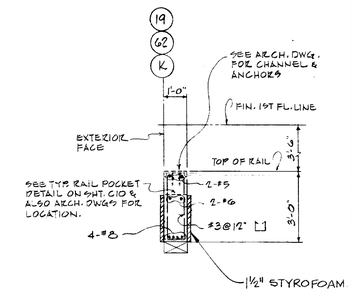


SECTION AT DOORS



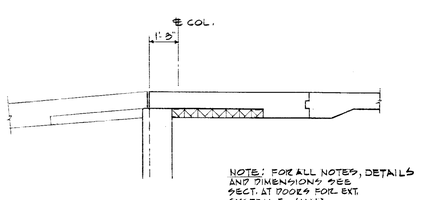
SECTION AT SIDING

EXTERIOR SYSTEM 5

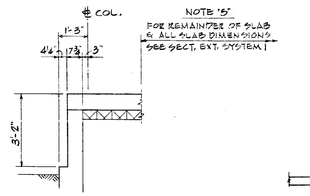


SECTION

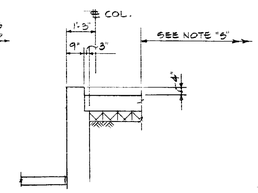
EXTERIOR SYSTEM 7



SECT. AT RAMP



SECT. AT TRAIN WELL

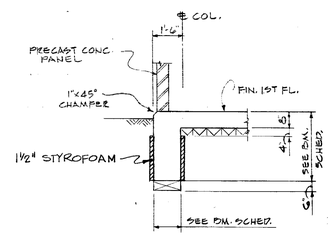


SECT. AT TRUCK DOCK

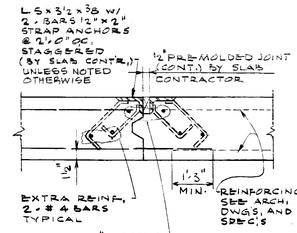
NOTE: SEE ARCH. DWG'S FOR LOCATION OF SECTIONS

NOTE: FOR LOWER SECT. SEE SYSTEM #12

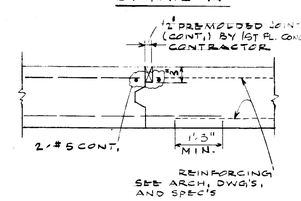
EXTERIOR SYSTEM 8



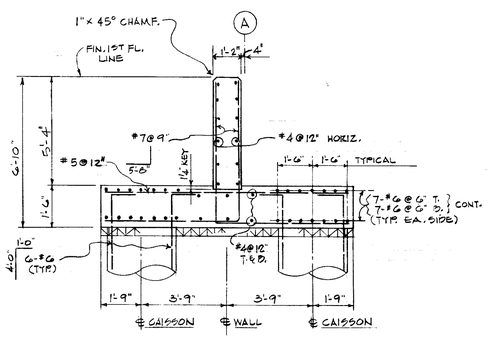
EXTERIOR SYSTEM 9



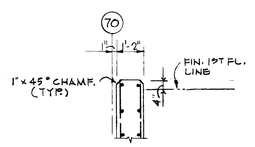
DETAIL "A"



DETAIL "B"



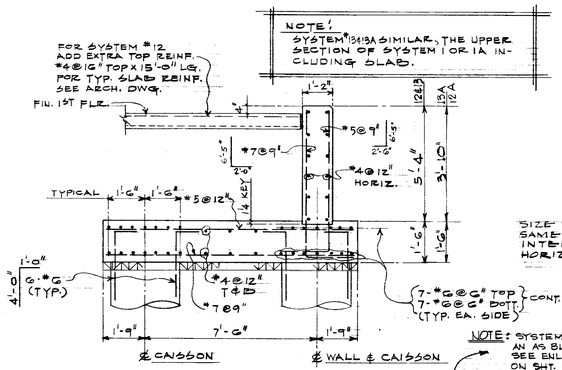
EXTERIOR SYSTEM 10



NOTE: FOR REMAINDER OF SECT., ALL DIM. & NOTES SEE SYSTEM 10 (U.N.)

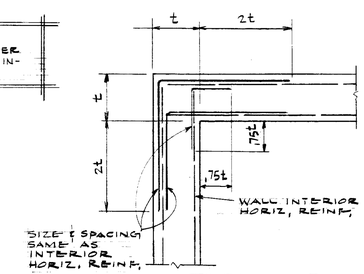
EXTERIOR SYSTEM 11 B

NOTE: SYSTEM #13 & 13A SIMILAR, THE UPPER SECTION OF SYSTEM 1 OR 1A INCLUDING SLAB.

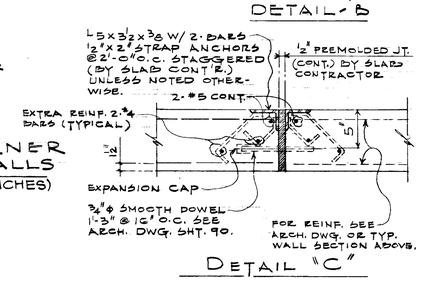


EXTERIOR SYSTEM 12 & 13 (SIMILAR)
13A (SIMILAR)

NOTE: SYSTEM 13A IS AN AS BUILT CONDITION. SEE ENLARGED PLAN, DETAIL "A", ON SHT. C-8



TYPICAL CORNER REINF. AT WALLS
(PITS AND TRENCHES)



DETAIL "C"

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-7-77	MFG. ROOF DECK, PRECAST SIDING, PRECAST PANEL REF.		
4-15-77	FIRE PROT. BLDG REF.		
4-22-77	CONCRETE PODIUM BLDG	R. Hlavacek	N.J. Olson
4-28-77	FIRST FLOOR CONCRETE SLAB	R. Hlavacek	N.J. Olson
5-27-77	PAINTING & FINISHING RIGS		
6-9-78	REF. BULL. #142		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
70	8-1-77	W.A.		
50	7-21-77	A.C.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
24	5/25/77	E.K.		
P.C. 18	5-11-77	E.K.		
P.C. 5	4-18-77	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

485 WEST MILWAUKEE AVENUE DETROIT, MICHIGAN

STRUCTURE & ENGINEERING & REAL ESTATE & CONSTRUCTION MANAGER

NEW MANUFACTURING PLANT

OKLAHOMA INDUSTRIES AUTHORITY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

EXTERIOR WALL AND GRADE BEAM SYSTEMS

SHEET TITLE

OWNER'S IDENTIFICATION

DATE 4-28-77

DRAWN BY ROSE

JOB CAPT. E. KUCZYNSKI

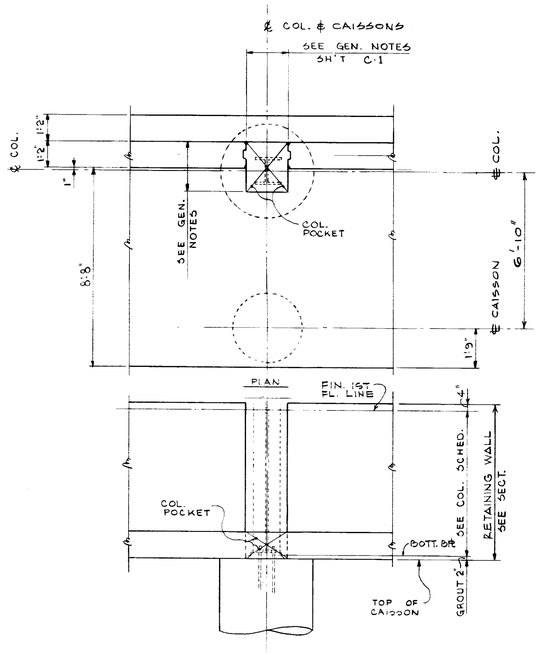
4500

P.E. & C. PROJECT NUMBER

C-35

SHEET NUMBER

PROJECT NO. SHEET NO.



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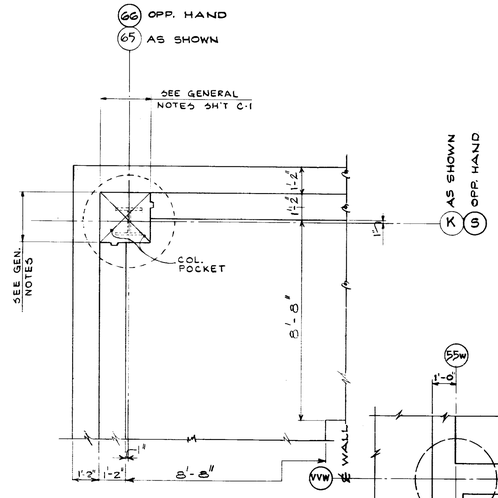

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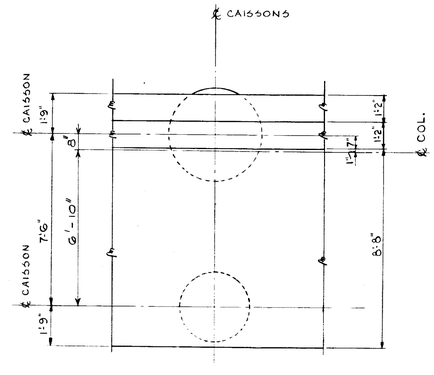

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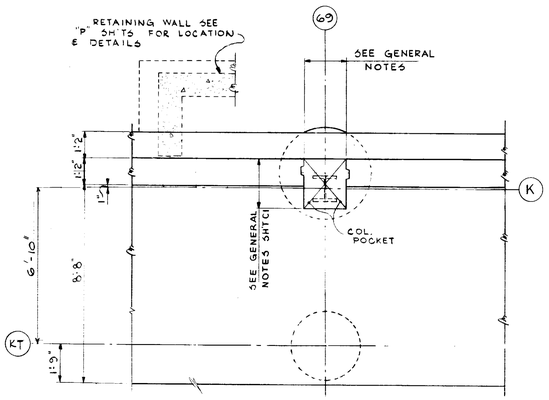

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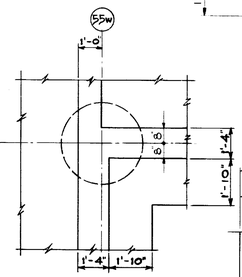

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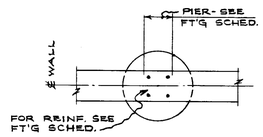

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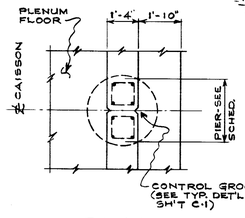
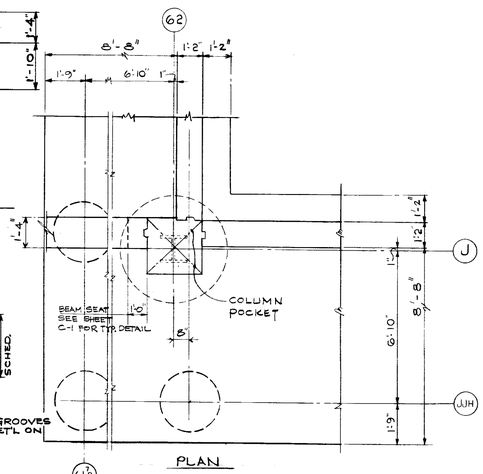


TYPE "CX"



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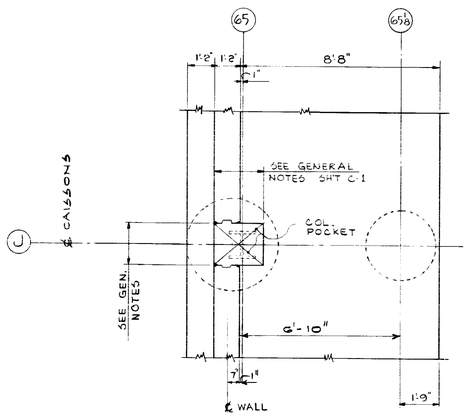

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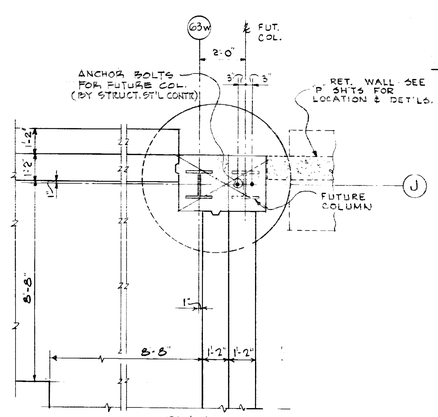

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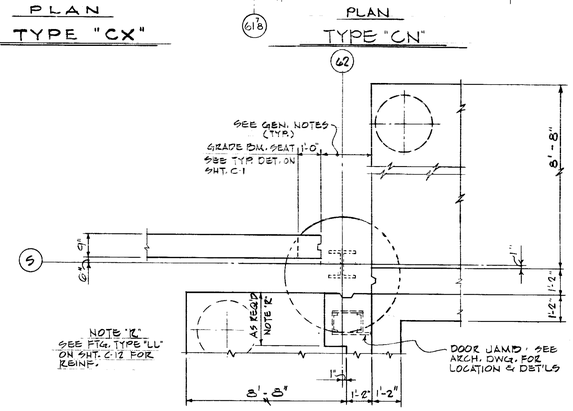

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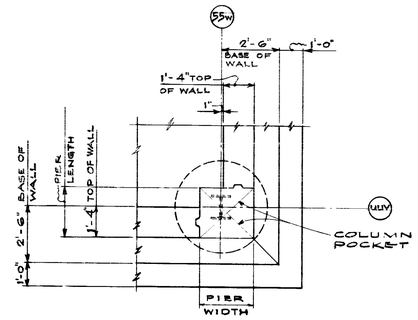

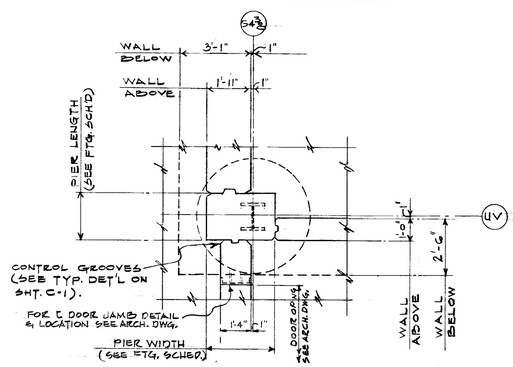

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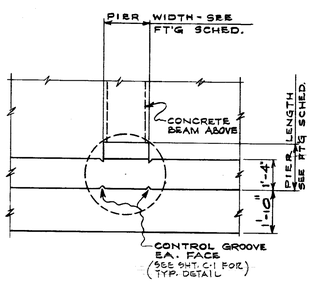

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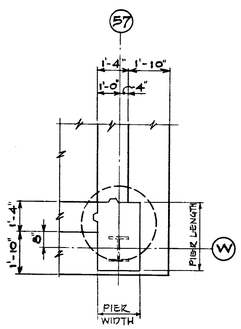

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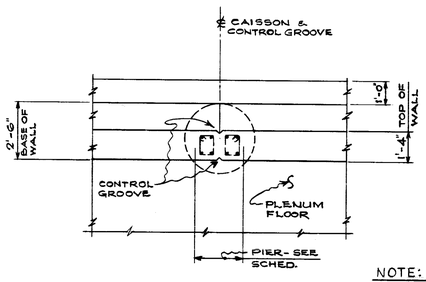
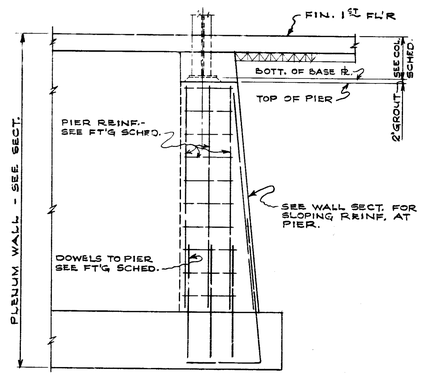


TYPE "CY"

NOTE:
FOR CONT. OF FTG TYPES SEE SH'T. C-40.



TYPE "CT"

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-28-77	ISSUED FOR CONSTRUCTION		
4-28-77	ISSUED FOR CONCRETE BIDS		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
70	8-1-77	W.A.		
BC.30	7-21-77	A.C.		
61	7-7-77	E.K.		
29	6/16/77	E.K.		
24	5/25/77	E.K.		
RC.20	5-16-77	E.K.		
RC.18	5/11/77	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
DIV. OF GENERAL MOTORS ☆ 485 WEST MILWAUKEE AVENUE ☆ DETROIT, MICHIGAN
FUTURE ☆ 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

FOOTING DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P.E. & C. PROJECT NUMBER

DATE 4-28-77

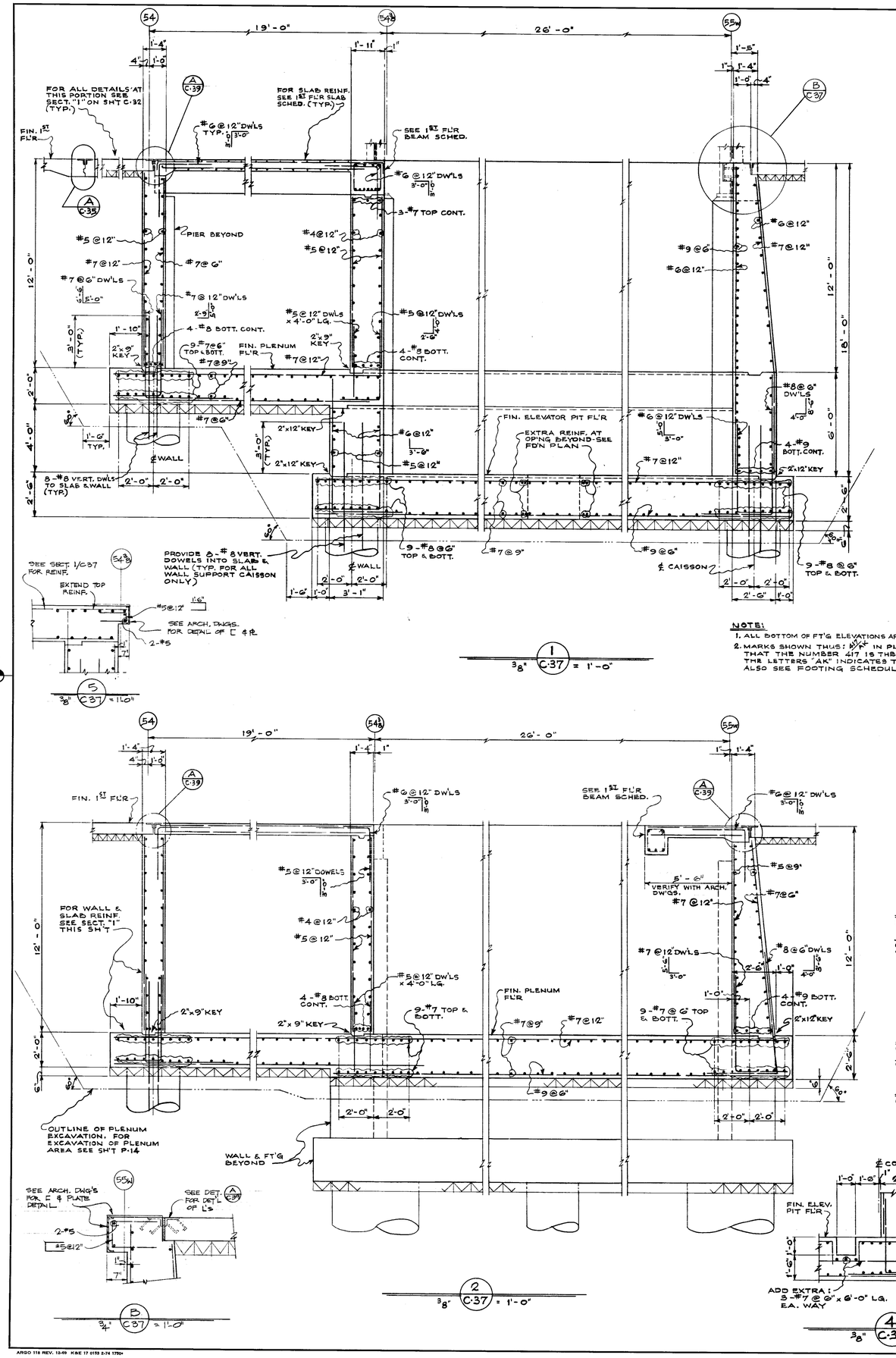
DRAWN BY BROSKY

JOB CAPT. E. KUCZYNOKI

C-36
SHEET NUMBER

ARGO 118 REV. 12-69 K&E 17 0193 2-74 1790+

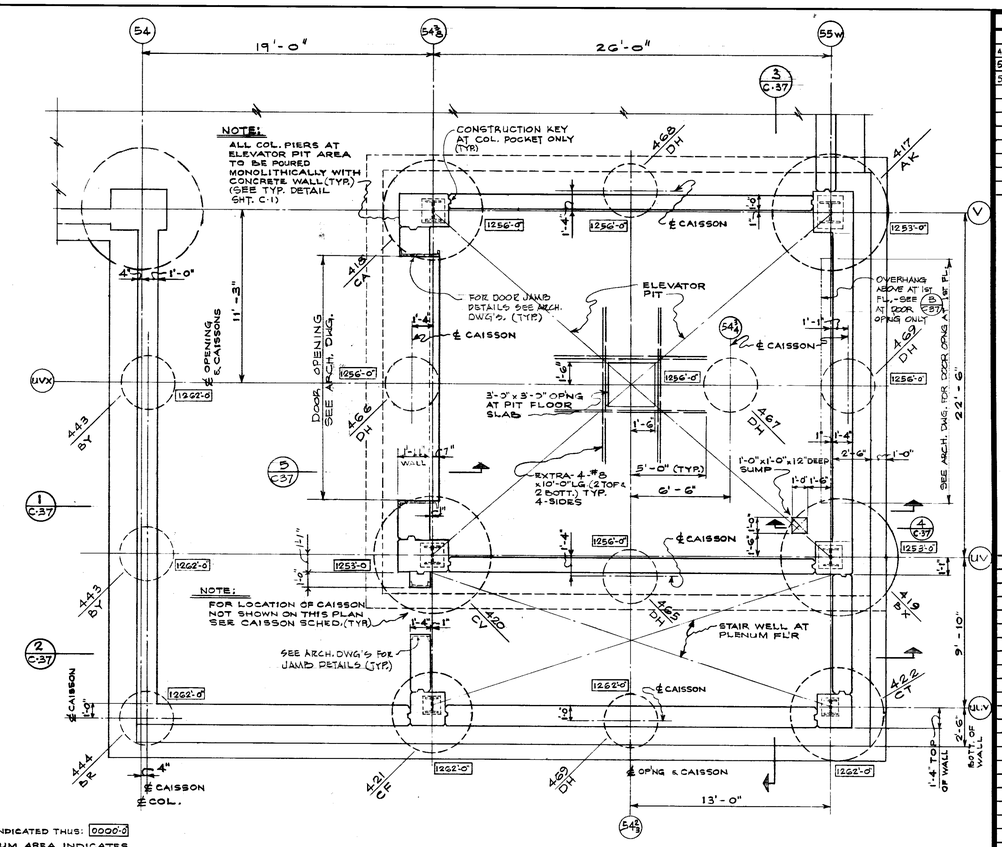
PROJECT NO. SHEET NO.



1 C-37 3/8" = 1'-0"

5 C-37 3/8" = 1'-0"

NOTE:
1. ALL BOTTOM OF FT'G ELEVATIONS ARE INDICATED THUS: 0000'-0
2. MARKS SHOWN THUS: 417 IN PLENUM AREA INDICATES THAT THE NUMBER 417 IS THE FOOTING NUMBER AND THE LETTERS "AK" INDICATES THE FOOTING TYPE (DETAIL). ALSO SEE FOOTING SCHEDULE.

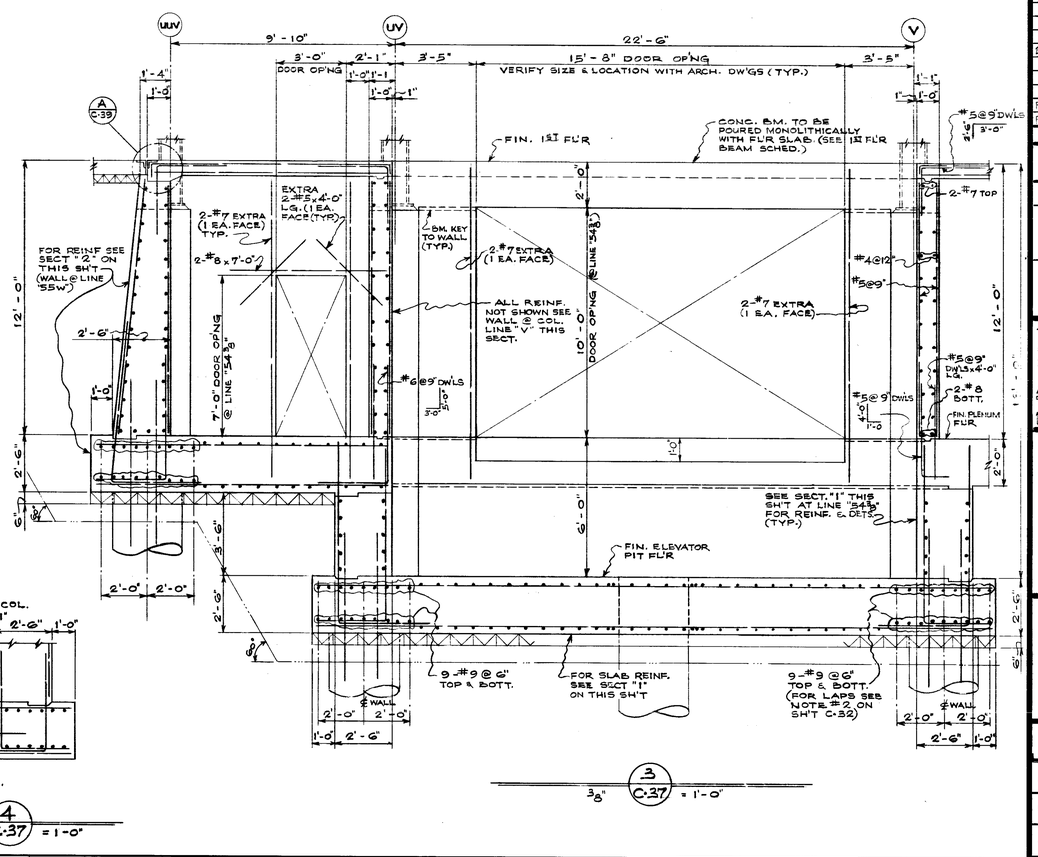


FREIGHT ELEVATOR PIT & STAIRWELL FOUNDATION PLAN
1/4" = 1'-0"

2 C-37 3/8" = 1'-0"

B C-37 3/4" = 1'-0"

4 C-37 3/8" = 1'-0"



3 C-37 3/8" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-28-77	FIRST ISSUE FOR CONSTRUCTION	R. J. Nagy	H. J. Elliott
5-10-77	P.C. # 17	R. J. Nagy	J. A. Fox
5-27-77	PAINTING & FINISHING	REF.	

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
85	9-9-77	E.K.		
80 30	7-21-77	A.C.		
48	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		
P.C. 28	5-20-77	E.K.		
P.C. 18	5-11-77	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

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FREIGHT ELEVATOR PIT & STAIRWELL FOUNDATION PLAN & SECTIONS

SHEET TITLE

OWNER'S IDENTIFICATION

ARGONAUT PROJECT NUMBER: 4500

DATE 4-28-77

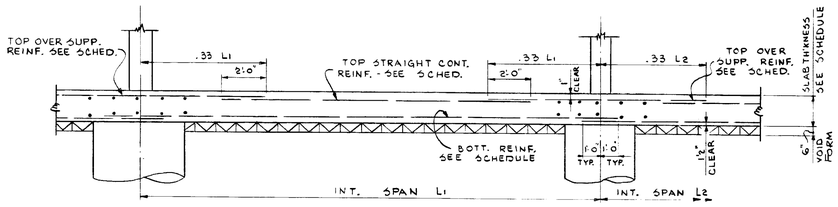
DRAWN BY R. NAGY

JOB CAPT. E. KUCZYNSKI

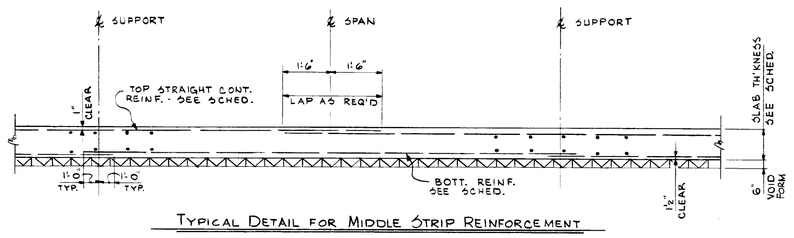
SHEET NUMBER: C-37

ARGO 116 REV. 12-69 KBE 17 0153 2-74 1790+

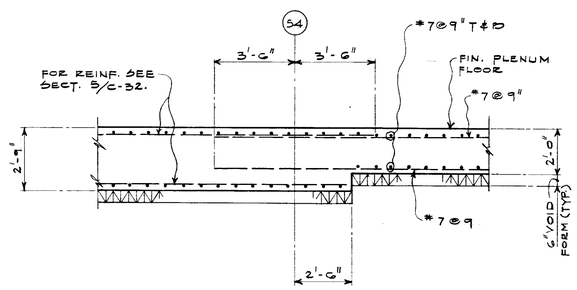
PROJECT NO. SHEET NO.



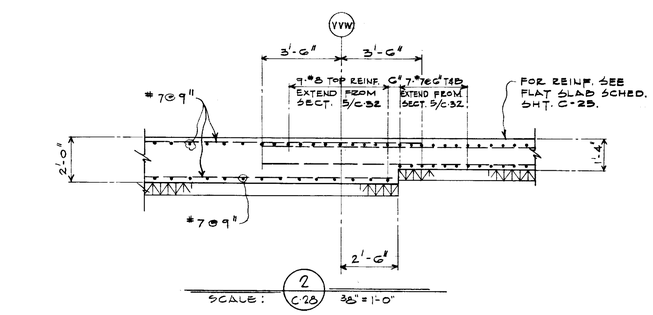
TYPICAL DETAIL FOR COL. STRIP REINFORCEMENT



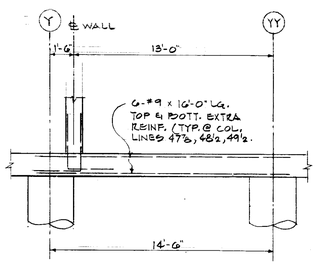
TYPICAL DETAIL FOR MIDDLE STRIP REINFORCEMENT



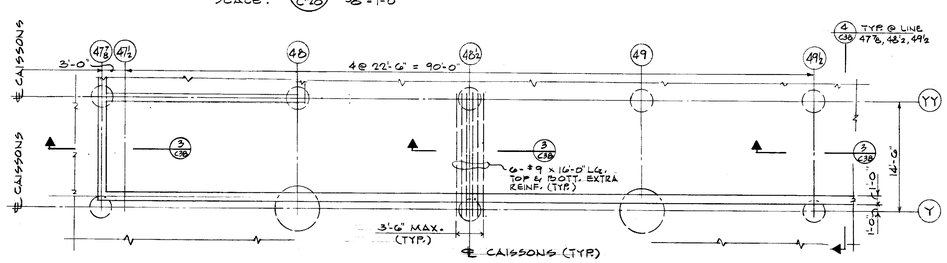
1 C-28 SCALE: 3/8" = 1'-0"



2 C-28 SCALE: 3/8" = 1'-0"

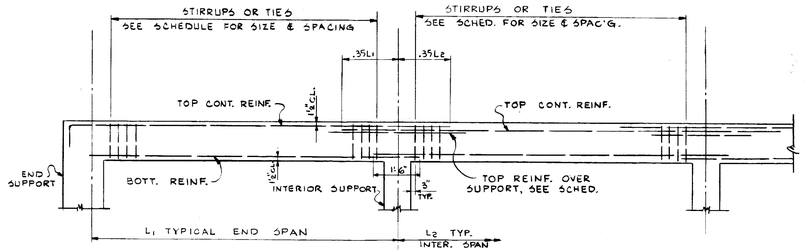


4 C-38 1/4" = 1'-0"

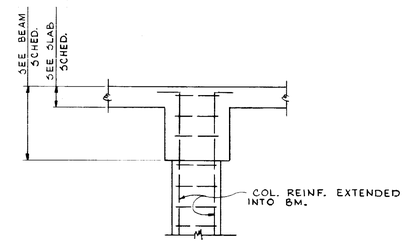


PLAN

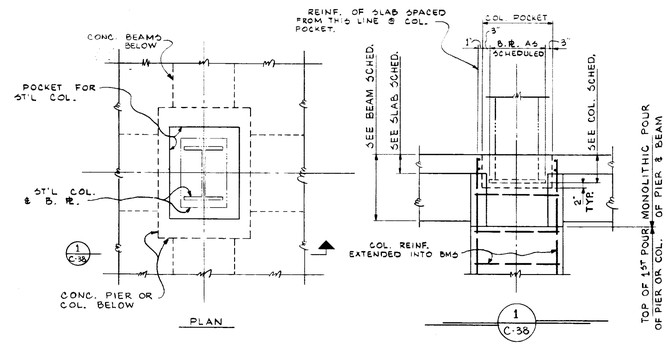
A C-3 1/8" = 1'-0"



TYPICAL BEAM REINFORCEMENT



TYPICAL DETAIL OF CONCRETE COLUMN OR PIER WITHOUT POCKET



TYPICAL DETAIL OF CONCRETE COLUMN OR PIER WITH POCKET FOR STEEL COLUMN

CONCRETE BEAM SCHEDULE (CONTINUED)

BEAM MARK	SIZE b x d	SHAPE	LONGITUDINAL REINFORCING: STRAIGHT BOTTOM	TOP: STRAIGHT CONT.	TOP: OVER SUPPORT (EA. SUP'T U.N.O.)	PLACEMENT	STIRRUP REINFORCING: SIZE	TYPE	SPACING EA. END	REMARKS
B53	24" x 38"		2-#9 2ND LAYER 7-#9 1ST LAYER	3-#9	—	℄ SUPT ℄ SUP'T	#4		11@8" - REMAINDER @ 16"	BEND DOWN TOP REINF. @ SUP'TS
B54	16" x 28"		5-#8	3-#9	ADD 2-#9 x 18'-0" LG. CONT. SUP'T		#4		12@8" + REMAINDER @ 12"	BEND TOP BARS @ NON-CONT. END
B55	16" x 36"		3-#9 2ND LAYER 5-#9 1ST LAYER	3-#9	—		2-#4		@ 10" THRUOUT	—
B56	16" x 28"		6-#8	3-#9	2-#9 x 15'-0" LG. IN 2ND LAYER		#4		10@10" + REMAINDER @ 12"	—
B57	16" x 28"		6-#8	3-#8	—		#3		10@8" + REMAINDER @ 12"	—
B58	16" x 28"		5-#9	3-#7	—		#4		@ 12" THRUOUT	BEND TOP BARS @ NON-CONT. END
B59	12" x 16"		2-#6	2-#6	—		#3		@ 12" THRUOUT	BEND TOP BARS @ NON-CONT. END
B60	12" x 18"		2-#7	2-#7	—		#3		@ 12" THRUOUT	BEND TOP BARS @ NON-CONT. END
B61	16" x 26"		6-#7	3-#7	—		#4		12@9" + REMAINDE@12"	BEND TOP BARS@ NON-CONT. END

DATE	ISSUED FOR	APPROVAL	APPROVAL
4-28-77	CONSTR. & FOUND. BIDS		
4-28-77	CONSTRUCTION & CONCRETE BIDS		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-17-78	D.G.	AS BUILT	
44	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	B.K.		
P.C. 28	5-20-77	E.K.		
P.C. 17	5/10/77	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 — 485 WEST MILWAUKEE AVENUE & DETROIT, MICHIGAN — A DIVISION OF GENERAL MOTORS

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

TYPICAL REINFORCEMENT & CONCRETE BEAM SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

ARGONAUT PROJECT NUMBER 4500

DATE 4-28-77

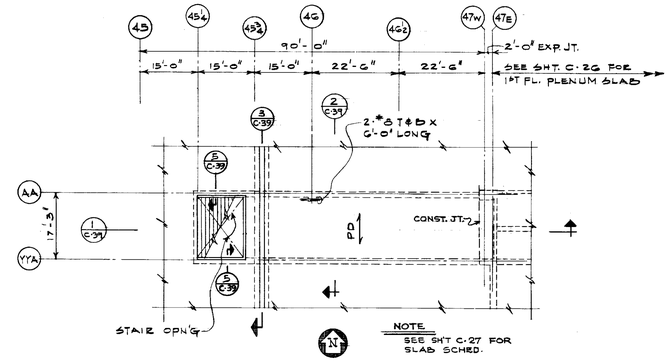
DRAWN BY BROSKY

JOB CAPT. E. KUTZNER

SHEET NUMBER C-38

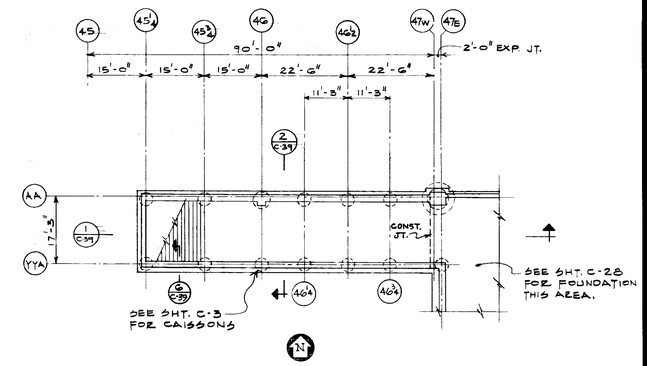
ARGO 118 REV. 12-69 K&E 17 0193 2-74 1790

PROJECT NO. SHEET NO.



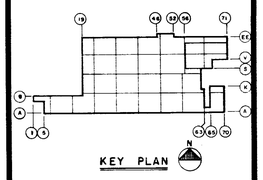
PARTIAL 1ST FLOOR PLAN AT PLENUM ACCESS STAIR

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

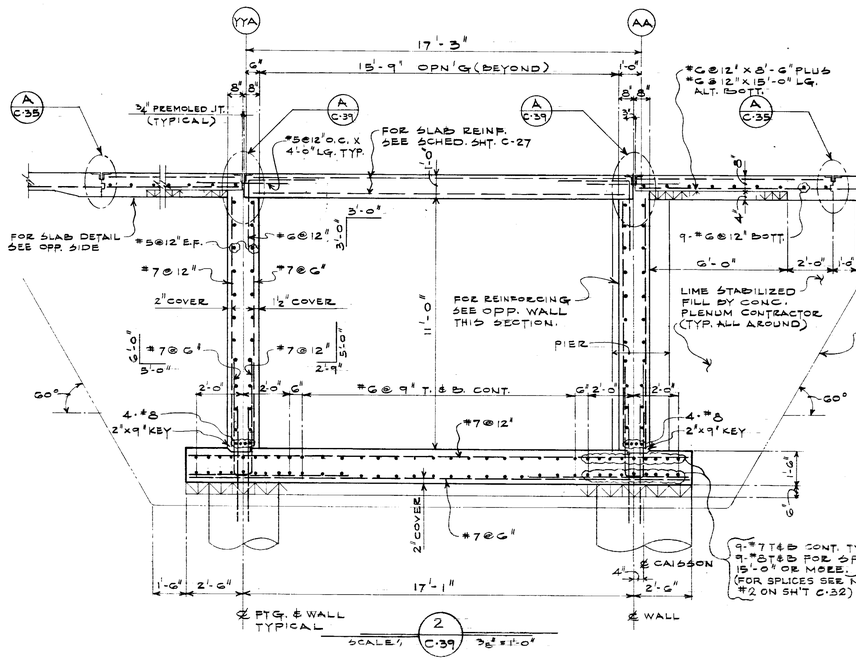


FOUNDATION PLAN AT PLENUM ACCESS STAIR

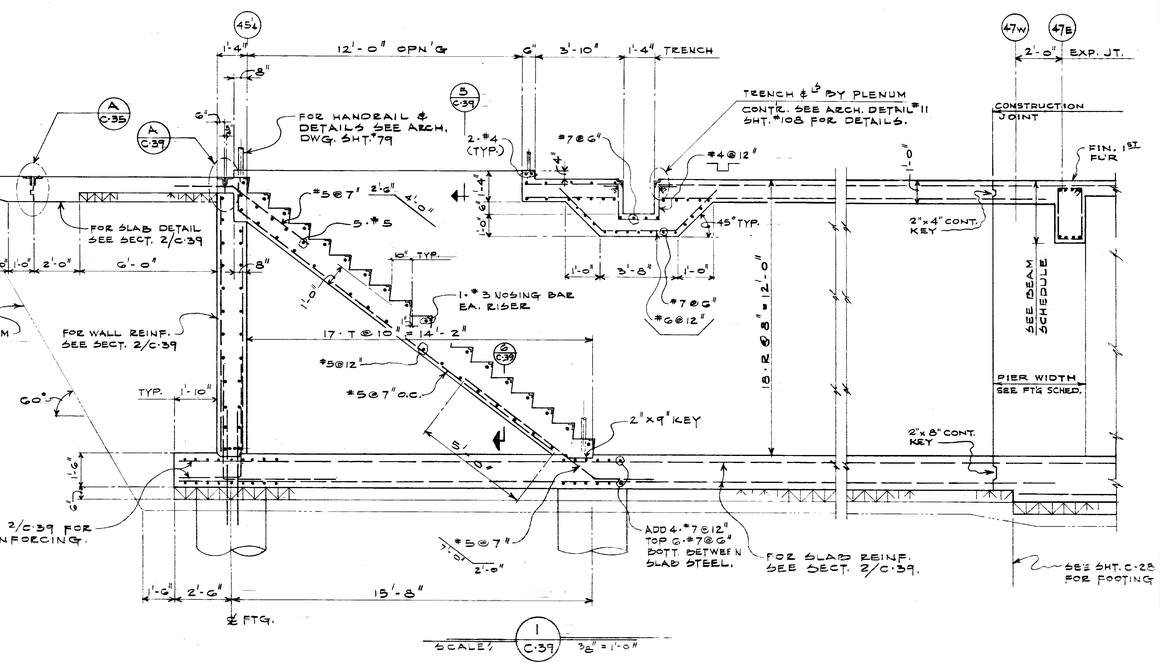
SCALE: 1/16" = 1'-0"



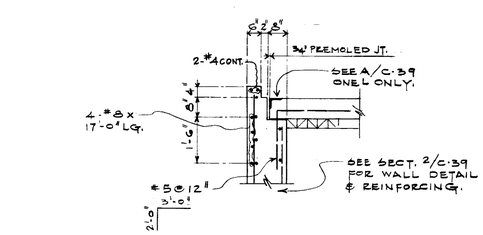
KEY PLAN



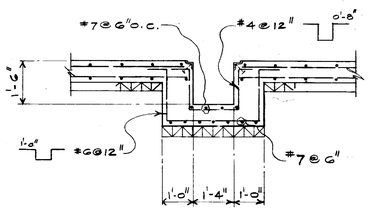
2 / C-39 SCALE: 3/8" = 1'-0"



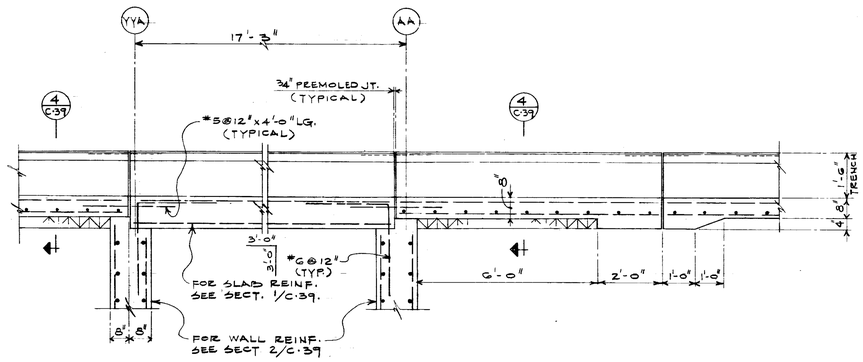
1 / C-39 SCALE: 3/8" = 1'-0"



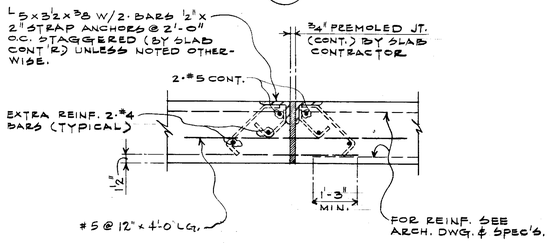
5 / C-39 SCALE: 1/2" = 1'-0"



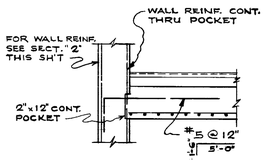
4 / C-39 SCALE: 1/2" = 1'-0"



3 / C-39 SCALE: 1/2" = 1'-0"



DETAIL "A"



6 / C-39 3/8" = 1'-0"

DATE	ISSUED FOR	APPROVAL	APPROVAL
5/10/77	P.C. #17		
5/11/77	P.C. #18		
5-27-77	PAINTING & FINISHING REQ.		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-15-78	DG	AS BUILT	
70	8-1-77	W.A.		
44	7-15-77	A.C.		
61	7-7-77	E.K.		
24	5/25/77	E.K.		

REVISIONS

CONTRACT SIGNATURES

FOR THE OWNER

FOR THE CONTRACTOR

DRAWING CERTIFIED BY

REGISTERED

STATE

NUMBER

DATE

ARGONA 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

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

PLENUM ACCESS STAIR & DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

4500
P.E. & C. PROJECT NUMBER

DATE 5-10-77

DRAWN BY R. TAYLOR

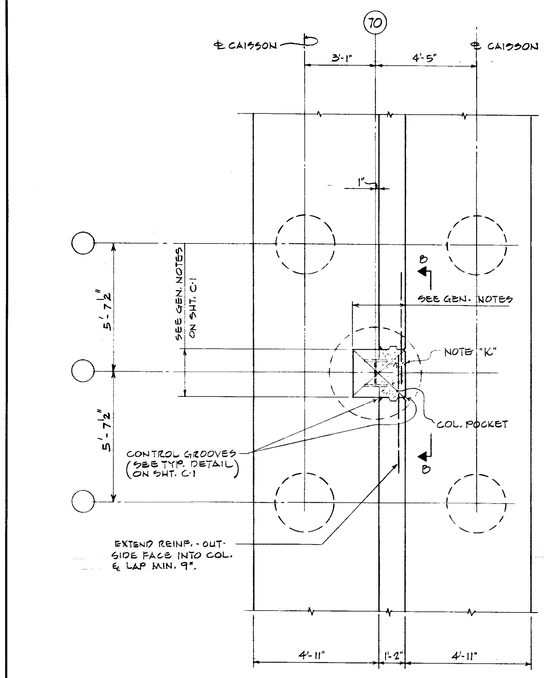
JOB CAPT. E. KLUCZYNSKI

C-39
SHEET NUMBER

ARGO 118 REV. 12-69 KAE 17 0133 2-74 1790*

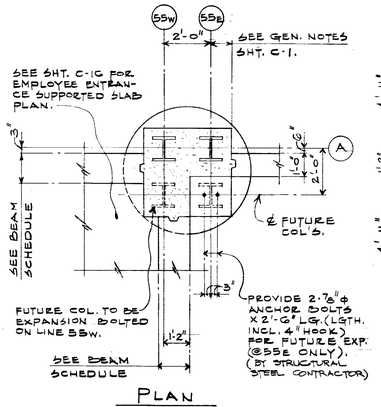
MAR 2 1979

PROJECT NO. SHEET NO.

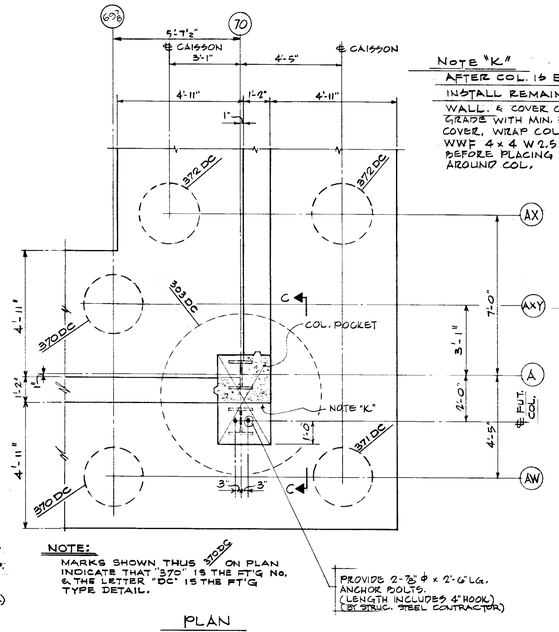


PLAN

TYPE "D5"



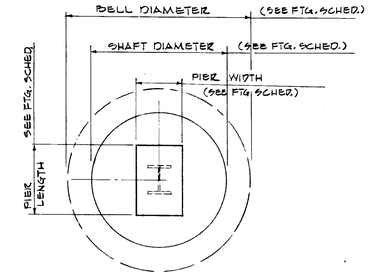
PLAN



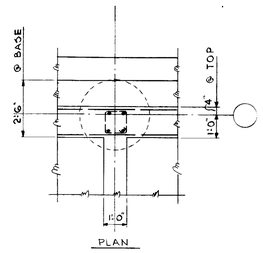
NOTE "K"
AFTER COL. IS ERECTED
INSTALL REMAINDER OF
WALL & COVER COL. BELOW GRADE WITH MIN. 3" CONC. COVER, WRAP COL. WITH WWF 4 x 4 W2.5 x W2.5 BEFORE PLACING CONCRETE AROUND COL.

NOTE:
MARKS SHOWN THUS 370DC ON PLAN INDICATE THAT '370' IS THE FT'G NO. & THE LETTER 'DC' IS THE FT'G TYPE DETAIL.

PLAN

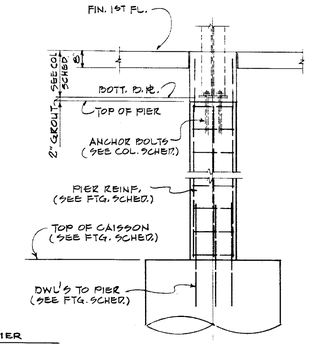


PLAN



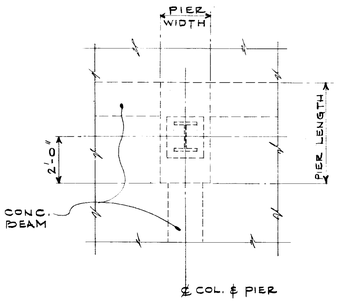
PLAN

TYPE "DN"



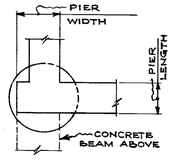
ELEVATION

TYPE "DE"



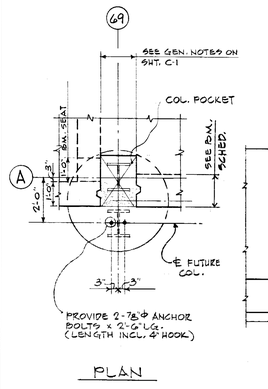
PLAN

TYPE "DL"



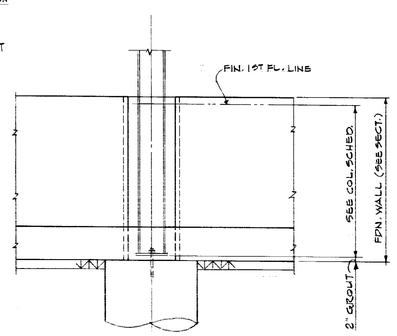
PLAN

TYPE "DQ"



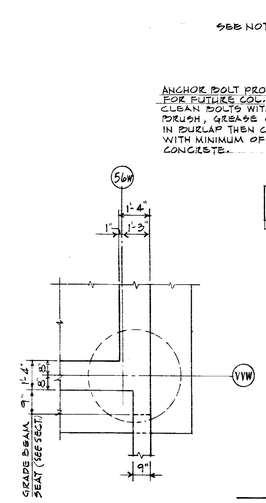
PLAN

TYPE "DT"



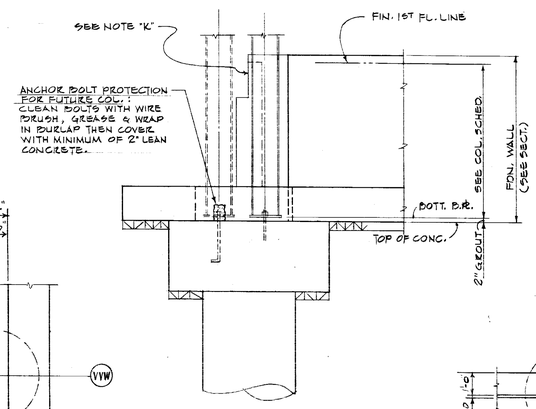
SECT. B-B

TYPE "DB"



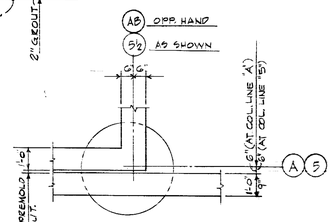
PLAN

TYPE "DR"



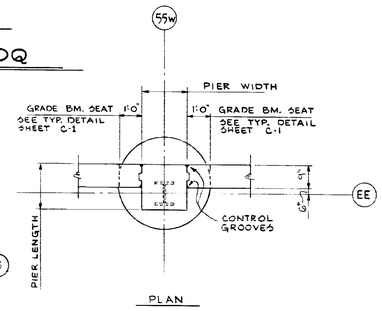
SECT. C-C

TYPE "DC"



PLAN

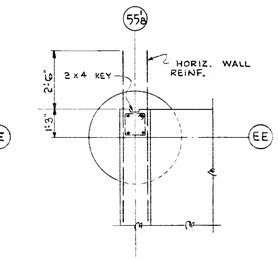
TYPE "DP"



PLAN

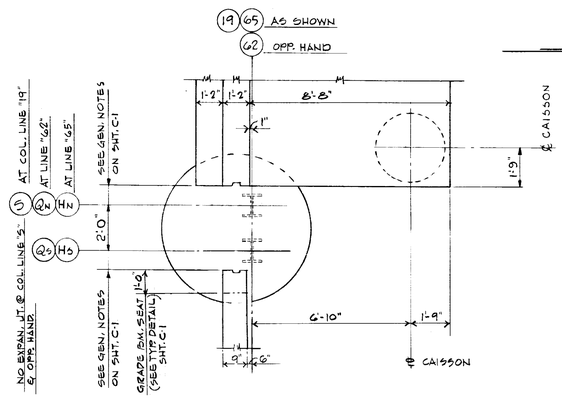
NOTE:
FOR ELEV. SEE TYP. DET. & EXT. PIERS ON SH'T C-1

TYPE "DF"



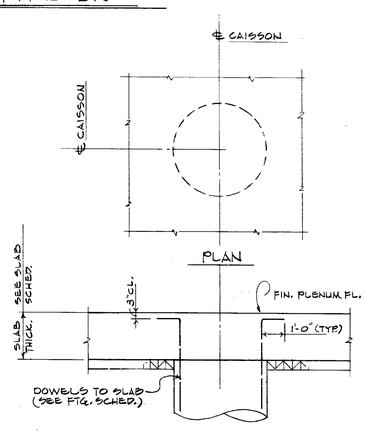
PLAN

TYPE "DM"



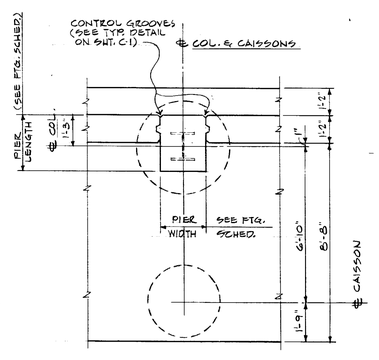
PLAN

TYPE "DG"



ELEVATION

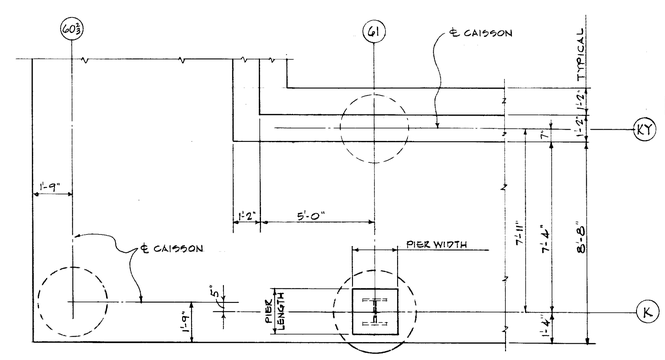
TYPE "DH"



PLAN

NOTE: FOR SECT. - SEE FTG. TYPE "QQ" SECT. K-K (SIMILAR)

TYPE "DJ"



PLAN

NOTE: FOR SECTION - SEE FTG. TYPE "QQ" SECT. K-K (SIMILAR)

TYPE "DK"

NOTE
FOR CONTINUATION OF FOOTING TYPES SEE SHT. C-43

DATE	ISSUED FOR	APPROVAL	APPROVAL
5-11-77	P.C. 18		

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
70	8-1-77	W.A.		
61	7-7-77	E.K.		
60	3/25/77	E.K.		
P.C. 18	5-10-77	E.K.		
P.C. 23	5-16-77	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
A 486 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

FOOTING DETAILS

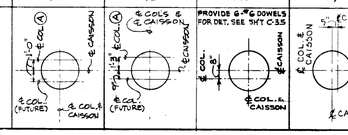
SHEET TITLE

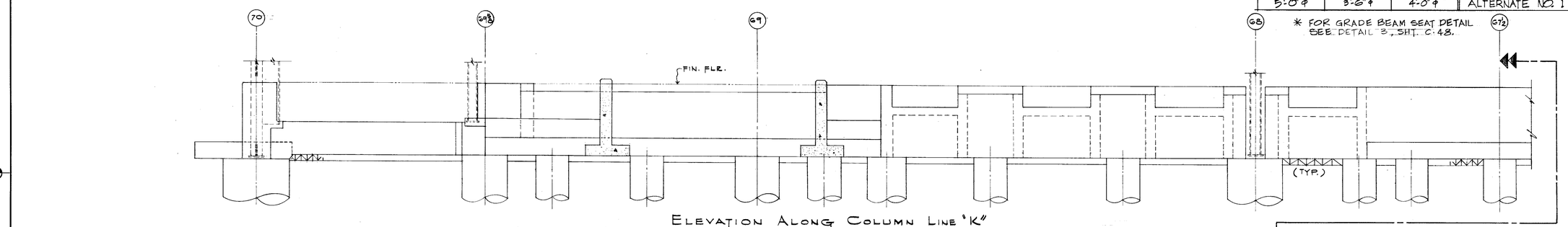
OWNER'S IDENTIFICATION
P.E.&C. PROJECT NUMBER 4500
DATE 5-10-77
DRAWN BY ALCINI
JOB CAPT. E. KUCZYNSKI
SHEET NUMBER C-40

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

PROJECT NO. SHEET NO.

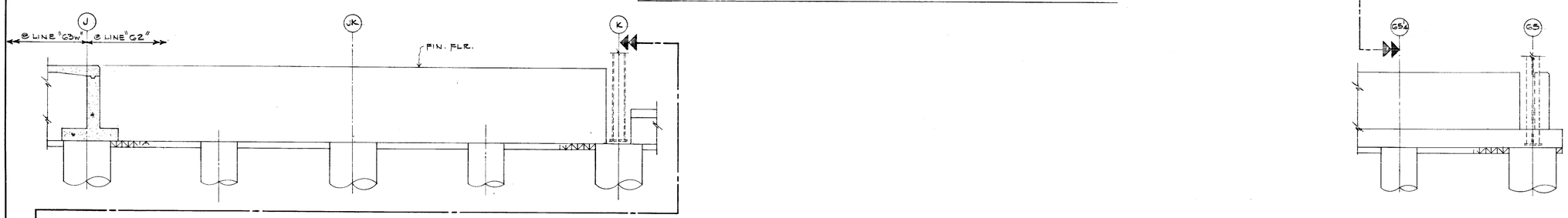
FOOTING SCHEDULE

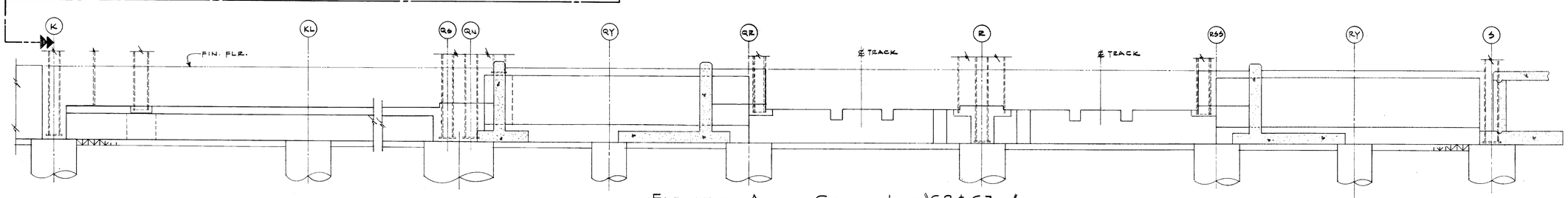
COLUMN NUMBER															
	A-32¾ - A5-32¾	A-32¼ - A5-32¼ A-45⅓ - A5-45⅓	J-62½ K-67½ K-66½ JK-65 HJ-65	JK-19, KL-19, LM-19, MNN-19 MNN-19, NP-19, PQ-19, ST-19, TU-19, BC-65, CD-65, DE-65, EF-65, FG-65, GH-65,	G-1½, G-2½, G-3½, G-4½, G-5½, G-6½, G-7½, G-8½, G-9½, G-11½, G-12½, G-13½,	EE-52½, EE-53½ EE-54½, EE-57½ EE-58½, EE-59½ EE-60½, EE-61½ EE-62½, EE-63½ EE-64½, EE-66½, EE-67½ EE-68½, EE-69½ EE-70½ D-63½, D-64½	L-62	K-61	HJ-63W, JK-62,	FF-48½	L-61	U-54 U-55W	CC-55W	DD-55W	EE-55W
TYPE	211 U	210 AA	209 DJ	208 P	207 F	206 SEE SH'T C-9	205 DK	204 DJ	203 UU	202 SEE SH'T C-9	201 DE	200 DE	199 DE	198 *
DEAD LOAD (IN KIPS INCL. WT. FTG.)	158K	179K	80	40	40	219	125	80	80	124	370	223	95	140
TOTAL LOAD (KIPS)	223K	244K	100	60	60	264	250	100	100	204	625	410	175	210
PIER: SIZE (WIDTH x LENGTH)	—	—	16" x 26"	—	—	—	24" x 24"	16" x 26"	—	—	30" x 36"	28" x 34"	26" x 26"	24" x 24"
PIER: VERT. REINF.	—	—	6-#6	—	—	—	8-#8	6-#6	—	—	18-#6	12-#6	12-#6	8-#6
PIER: TIES	—	—	#3@12" 2/SET	—	—	—	#3@12" 2/SET	#3@12" 2/SET	—	—	#3@12" 4/SET	#3@12" 3/SET	#3@12" 3/SET	#3@12" 2/SET
PIER: DOWELS TO PIER	—	—	6-#6	—	—	—	8-#8	6-#6	—	—	18-#6	12-#6	12-#6	8-#6
DIM. FROM 1ST FL. TO TOP OF SHAFT.	3'-0"	3'-0"	6'-6"	3'-0"	3'-0"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	14'-6"	13'-6"	13'-6"
SHAFT: DIAMETER	4'-6" ϕ	5'-0" ϕ	3'-6" ϕ	3'-0" ϕ	3'-0" ϕ	5'-0" ϕ	3'-0" ϕ	3'-6" ϕ	3'-6" ϕ	5'-0" ϕ	4'-6" ϕ	4'-0" ϕ	3'-6" ϕ	4'-0" ϕ
SHAFT: VERT. REINF.	12-#8	14-#8	8-#8	8-#8	8-#8	14-#8	8-#8	8-#8	8-#8	14-#8	12-#8	10-#8	9-#8	10-#8
SHAFT: TIES	#5@12"	#5@12"	#4@12"	#4@12"	#4@12"	#5@12"	#4@12"	#4@12"	#4@12"	#5@12"	#5@12"	#5@12"	#4@12"	#5@12"
BELL DIAMETER	5'-6" ϕ	6'-0" ϕ	—	—	—	—	5'-0" ϕ	—	—	—	8'-6" ϕ	7'-0" ϕ	4'-6" ϕ	5'-6" ϕ
MINIMUM ALLOWABLE SOIL BEARING (K.S.F.)	12	12	12	15	12	15	15	12	12	15	12	12	12	12
REMARKS			PROVIDE 6-#6 DOWELS FOR DET. SEE SH'T C-35				PROVIDE 6-#6 DOWELS (FOR DETAIL SEE SHT. C-35.							FUT. LOAD = 55K INCL.	
ALTERNATE NO. 1												5'-0" ϕ	3'-6" ϕ	4'-0" ϕ	



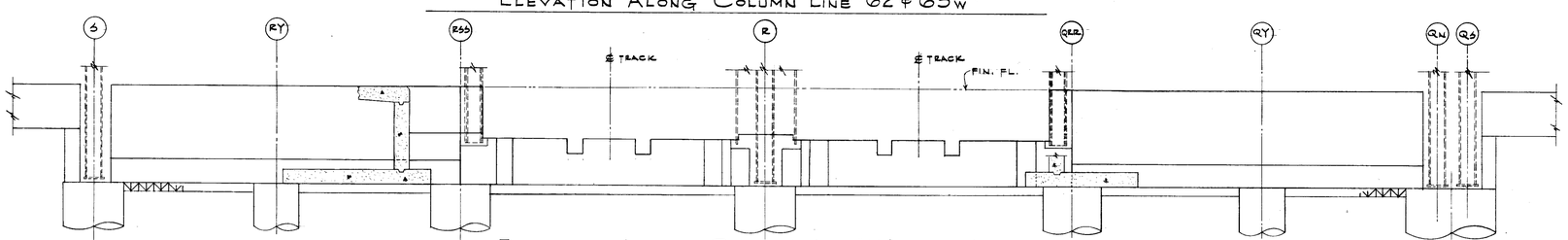
* FOR GRADE BEAM SEAT DETAIL SEE DETAIL 3, SHT. C-48.

ELEVATION ALONG COLUMN LINE 'K'



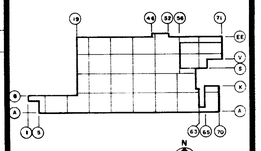


ELEVATION ALONG COLUMN LINE "62 & 63W"



ELEVATION ALONG COLUMN LINE "19" (BETWEEN "S & QN")

DATE	ISSUED FOR	APPROVAL	APPROVAL
5-11-77	P.C. #8		



KEY PLAN

NOTE: ALL CAISSON LOCATION DET'LS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
85	9-9-77	E.K.		
57	7-27-77	D.L.W.		
60	7-18-77	A.C.		
61	7-7-77	E.K.		
39	6/16/77	E.K.		
38	6/7/77	A.C.		
24	5-25-77	E.K.		
P.C. 23	5-16-77	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

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING SCHEDULES AND ELEVATIONS

SHEET TITLE

OWNER'S IDENTIFICATION

P.E.&C. PROJECT NUMBER 4500

DATE 5-10-77

DRAWN BY BROSKY ALCINI

JOB CAPT. E. KUCZYNSKI A. CHU

SHEET NUMBER C-41

\RGO 118 REV. 12-69 K&E 17 0193 8-74 1750+

PROJECT NO. SHEET NO.

FOOTING SCHEDULE

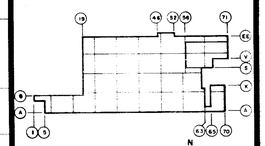
COLUMN NUMBER															
BDD-50½, BDD-51, BDD-51½, BDD-52, BDD-52½, BDD-53, BDD-53½, BDD-54, BDD-54½, BDD-55W	BDD-48, BDD-48½, BDD-49, BDD-49½	XXY-48, XXY-48½, XXY-49, X_U-48½	CCC-57, YYA-57	UUV-54⅔, UVX-55W	V-54⅔	UVX-54¾	UVX-54⅜	UV-54⅔	YYA-47E	AA-45¼, YYA-45¼	AA-45¾, YYA-45¾	AA-46½, YYA-46½, YYA-46	AA-46¾, YYA-46¼, YYA-46¾, AA-46¼	AA-46	X_N-X_S-48, X_N-X_S-49
TYPE	473 AY	472 BD	471 BD	470 CX	(SEE 469 DH SH'T C-37)	(SEE 468 DH SH'T C-37)	(SEE 467 DH SH'T C-37)	(SEE 466 DH SH'T C-37)	(SEE 465 DH SH'T C-37)	464 BT	463 BR	462 CS	461 CX	460 CS	459 AMa	458 J
DEAD LOAD (KIPS) — STEEL COLUMN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	312
LIVE LOAD (KIPS) — STEEL COLUMN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	269	268
D. L. (KIPS) — FROM 1ST FL.	65	65	85	80	10	15	—	20	20	40	29	28	21	21	33	106
L. L. (KIPS) — FROM 1ST FL.	80	80	130	65	15	20	—	25	20	65	47	47	36	36	50	144
TOTAL LOAD TO CONCRETE COL. (KIPS)	145	145	215	145	25	35	—	45	40	105	—	—	—	—	466	830
SIZE (WIDTH x LENGTH) — COLUMN OR PIER	20"φ	20"x 20"	18"x 18"	2 - 12"x 16"	—	—	—	—	—	16"x16"	16"x 16"	2x 16"x16"	2 x 16"x16"	16"x 16"	24" x 30"	34" x58"
VERT. REINF. — COLUMN OR PIER	8-#7	8-#8	8#7	8#8	—	—	—	—	—	8-#7	6-#7	2 x 6-#6	2 x 6-#7	6-#7	10-#8	20-#9
TIES — COLUMN OR PIER	#3@9"	#3@12" 2/SET	#3@12 2/SET	#3@12 2/SET	—	—	—	—	—	#3@12" 2/SET	#3@12"	2 x #3@12" 2/SET	2 x #3@12" 2/SET	#3@12" 2/SET	#3@12" 3/SET	#4@12"
D. L. (KIPS) — FROM PLENUM	150	150	120	80	170	230	235	230	300	110	115	37	29	29	60	95
L. L. (KIPS) — FROM PLENUM	70	70	135	40	15	30	25	35	30	50	—	30	23	23	20	105
TOTAL DEAD LOAD (INCL. WT. OF FT'G. KIPS)	230	230	220	175	205	270	250	275	350	160	144	105	90	90	257	560
TOTAL LOAD TO FT'G (KIPS)	380	380	485	280	235	320	275	335	400	275	191	182	149	149	596	1080
DOWELS TO COL.	8-#7	8-#8	8#7	8#8	8-#6	8-#6	8-#6	8-#6	8-#6	8-#7	6-#7	2 x 6-#7	2 x 6-#7	6-#7	10-#8	20-#9
DIM. FROM 1ST FL. TO TOP OF COLLAR OR SHAFT	14'-6"	14'-6"	13'-4"	13'-6"	14'-6" AT UUV-54⅔, 20'-6" AT UVX-55W	20'-6"	20'-6"	20'-6"	20'-6"	14'-0"	13'-6"	13'-6"	13'-6"	13'-6"	13'-6"	13'-6"
SIZE (DIAM. x THICK) — COLLAR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HORIZ. REINF TOP E.W. — COLLAR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DOWELS TO COLLAR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DIAMETER — SHAFT	3'-0"	3'-0"	4'-0"	3'-0"	3'-6"φ	3'-6"φ	3'-0"φ	3'-6"φ	3'-6"φ	3'-0"φ	3'-0"φ	4'-6"φ	4'-0"φ	4'-0"φ	4'-6"φ	5'-6"φ
VERT. REINF. — SHAFT	8-#8	8-#8	10#8	8#8	9-#8	9-#8	8-#8	9-#8	9-#8	8-#8	8-#8	12-#8	10-#8	10-#8	12-#8	16-#9
TIES — SHAFT	#4@12"	#4@12"	#4@12	#4@12	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#5@12"	#5@12"
BELL DIAMETER	6'-0"	6'-0"	7'-0"	5'-6"	5'-0"φ	5'-6"φ	5'-0"φ	5'-6"φ	6'-6"φ	5'-0"φ	4'-6"φ	—	—	—	7'-6"	10'-0"
REMARKS	℄ COL. & CAISSON	℄ COL. & CAISSON	℄ COL. ℄ CAISS.	℄ CAISS. ℄ WALL & CAISS	SEE FRIEGHT ELEVATOR FOUNDATION PLAN SH'T C-37					℄ CAISSON, 47E, 4", YYA, 2"	8", 45¼, AA, 2", 4", YYA, ℄ CAISSON	℄ CAISSON, AA, 2", 4", YYA, ℄ CAISSON	℄ CAISSON, AA, 2", 4", YYA, ℄ CAISSON	℄ CAISSON, AA, 2", 4", YYA, ℄ CAISSON	℄ CAISSON & COL.	℄ CAISSON & COL., 10'-0", XN, XS, ℄ CAISSON
ALTERNATE Nº 1	4'-6"φ	4'-6"φ	5'-6"φ	4'-0"φ	4'-0"φ	4'-6"φ	4'-0"φ	4'-6"φ	5'-0"φ	4'-0"φ	3'-6"φ	3'-6"φ	3'-0"φ	3'-0"φ	6'-0"φ	8'-0"φ

FOOTING SCHEDULE

COLUMN NUMBER															
DD-5Gw-5GE, EE-5Gw-5GE	BDD-50	CCC-49¾, CCC-50⅜	EE-55⅛	DEX-55⅛, DDE-55⅛, EXE-55⅛, DDD-55⅛, CCD-55⅛, CCC-55⅛, CXC-55⅛, W-56½, W-56¾	BD-49	BD-48½, BD-49½	V-47¾, V-48¾, V-48¾, V-49¼, V-49¾, V-50¼, V-50¾, V-51¼, V-51¾, V-52¼, V-52¾, V-53¼, V-53¾	DD-57	CC-57, EE-57	AAX-47½, AA-47¼, BAX-47½, YY-47E, WXW-47½, YX-47E, XWX-47½, XYX-47E, VVV-47½, XW-47¼, VVW-56¼, VVW-55¾, VVV-55¾, WVV-56W, VWX-47½	WWX-48½	W-50½, WWX-49, WWX-49½, X_W-56¼	VVW-47¾, VVW-48¼, VVW-48¾, VVW-49¼, VVW-49¾, VVW-50¼, VVW-50¾, VVW-51¼, VVW-51¾, VVW-52¼, VVW-52¾, VVW-53¼, VVW-53¾, YYA-47¼, XWX-48, WXW-48, YX-47½, VWX-48, VVV-48, BAX-48, AAX-48, W-53¾, XYX-47½, VVV-54½, W-53¾, XXY-47¾, WVV-53¾	VVW-48, VVW-48½, VVW-49, VVW-49½, VVW-50, VVW-50½, VVW-51, VVW-51½, VVW-52, VVW-52½, VVW-53, VVW-53½, VVW-54, VVW-54½, WWX-48, AAA-48, XXY-47½	BDD-47¾, BDD-48¼, BDD-48¾, BDD-49¼, BDD-50¼, BDD-51¼, BDD-51¾, BDD-52¼, BDD-52¾, BDD-53¼, BDD-53¾, BDD-54¼, BDD-54¾
TYPE	489 AG	488 CS	487 DN	486 DM	485 CX	484 DL	483 DDA	482 CY	481 AJ	480 BW	479 CX	478 CD	477 CD	476 DH	475 BD	474 DH
DEAD LOAD (KIPS) — STEEL COLUMN	50	—	—	—	—	285	—	—	45	45	—	—	—	—	—	—
LIVE LOAD (KIPS) — STEEL COLUMN	90	—	—	—	—	285	—	—	80	80	—	—	—	—	—	—
D.L. (KIPS) — FROM 1ST FL.	38	75	35	50	40	105	105	30	66	82	40	120	120	—	110	—
L.L. (KIPS) — FROM 1ST FL.	92	93	50	40	55	105	105	45	54	67	55	100	100	—	130	—
TOTAL LOAD TO CONCRETE COL. (KIPS)	270	168	85	90	95	780	210	75	245	274	95	220	220	—	240	—
SIZE (WIDTH x LENGTH) — COLUMN OR PIER	46"x 30"	24"x 12" (B-W x N-S)	12"x16"	12"x 16"	2 - 12" x 16"	30"x 51"	24"x 24"	2 - 12"x16"	24"x 24"	24"x 28"	2-16"x 12"	26"x 12"	26"x 12"	—	20"x 20"	—
VERT. REINF. — COLUMN OR PIER	12-#8	6-#8	4-#8	4-#8	8-#8	16-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#6	8-#6	—	8-#8	—
TIES — COLUMN OR PIER	#3@12" 4/SET	#3@12" 2/SET	#3@12"	#3@12"	#3@12" 2/SET	#3@12" 4/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	#3@12 2/SET	#3@12 2/SET	#3@12" 2/SET	—	#3@12" 2/SET	—
D.L. (KIPS) — FROM PLENUM	82	200	103	50	125	100	100	115	66	102	125	74	90	150	150	150
L.L. (KIPS) — FROM PLENUM	67	82	15	25	30	90	90	25	33	41	30	52	100	60	60	70
TOTAL DEAD LOAD (INCL. WT. OF FT'G IN KIPS)	184	291	148	110	180	510	220	155	191	245	180	208	220	160	275	160
TOTAL LOAD TO FT'G (KIPS)	433	466	213	175	265	990	415	225	358	433	265	360	420	220	465	230
DOWELS TO COL.	12-#8	4-#8	4-#8	4-#8	8-#8	16-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#6	8-#6	8-#8	8-#8	8-#8
DIMENSION FROM 1ST FL'R TO TOP OF COLLAR OR SHAFT	13'-4"	14'-6"	14'-6"	13'-6"	13'-6" 14'-0" @ LINE YY	13'-4"	13'-4"	14'-9"	13'-6"	13'-6"	14'-9" @ VVV 14'-0" @ OTHERS	13'-4"	13'-4"	14'-9" @ VVW & VVV 14'-0" @ OTHERS	14'-9" @ VVW 14'-0" @ OTHERS	14'-6"
SIZE (DIAM. x THICK.) — COLLAR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HORIZ. REINF. (TOP EA. WAY) — COLLAR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DOWELS TO COLLAR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DIAMETER — SHAFT	5'-0"	3'-0"	3'-0"	4'-0"	3'-0"	6'-0"	3'-0"	3'-0"	4'-6"	5'-0"	3'-0"	3'-0"φ	3'-0"	3'-0"	3'-0"	3'-0"
VERT. REINF. — SHAFT	12-#9	8-#8	8-#8	—	8-#8	16-#8	8-#8	8-#8	12-#8	14-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8
TIES — SHAFT	#4@12"	#4@12"	#4@12"	—	#4@12"	#5@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12	#4@12"	#4@12"	#4@12"	#4@12"
BELL DIAMETER	6'-6"	6'-6"	4'-6"	—	5'-0"	9'-6"	6'-6"	4'-6"	6'-0"	6'-6"	5'-0"	6'-0"	6'-6"	4'-6"	6'-6"	5'-0"
REMARKS	℄ COL. & CAISSON	℄ COL. & CAISSON	℄ CAISSON	℄ CAISSON ℄ WALL & CAISSON	℄ WALL & CAISSON ℄ CAISSON	℄ CAISSON, 2"	℄ COL. & CAISSON	℄ CAISSON ℄ WALL & CAISSON	℄ CAISSON	℄ CAISSON, 2", 2"	℄ CAISSON, ℄ CAISSON & WALL	℄ CAISSON & WALL, ℄ CAISSON	℄ WALL & CAISSON ℄ CAISSON	℄ CAISSON	℄ CAISSON & COL.	℄ CAISSON
ALTERNATE Nº 1	5'-0"φ	5'-0"φ	3'-6"φ	3'-6"φ	4'-0"φ	7'-6"φ	5'-0"φ	3'-6"φ	4'-6"φ	5'-0"φ	4'-0"φ	4'-6"φ	5'-0"φ	3'-6"φ	5'-0"φ	3'-6"φ

NOTE: FOR CONTINUATION OF FOOTING SCHEDULE - SEE SHT. C-43.

DATE	ISSUED FOR	APPROVAL	APPROVAL
5/10/77	P.C. # 17	[illegible]	[illegible]



NOTE: ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
85	9-9-77	E.K.	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]
38	6/7/77	A.C.	[illegible]	[illegible]
24	5-25-77	E.K.	[illegible]	[illegible]
P.C. 23	5/20/77	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 CORPORATION — ARCHITECTURE ENGINEERING CONSTRUCTION

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

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION — OKLAHOMA CITY, OKLAHOMA

PROJECT TITLE

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

P.E. & C. PROJECT NUMBER: 4500

DATE 5-10-77

DRAWN BY BROSKY

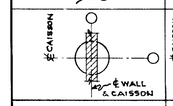
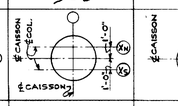
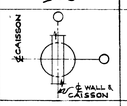
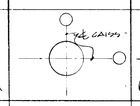
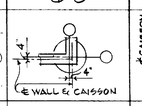
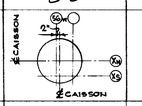
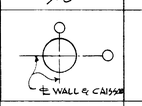
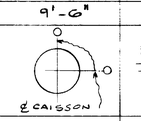
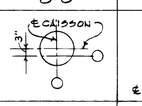
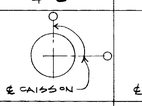
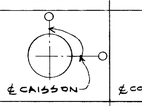
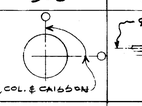
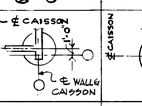
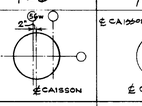
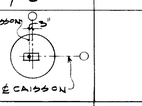
JOB CAPT. E. KUCZYNSKI

SHEET NUMBER: C-42

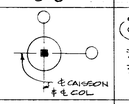
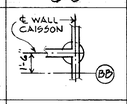
ARGO 118 REV. 12-69 K&E 17 0133 5-74 1790-

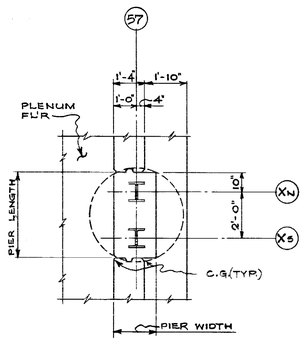
PROJECT NO. SHEET NO.

FOOTING SCHEDULE

AA-57	X_N-X_S-57	BB-57 Y-57	CXC-54 3/4 CXC-54 3/8	AA-47 1/2	X_N-X_S-56W X_N-X_S-56E	WWX-48 3/4 XXY-504	W-48 BB-48	W-55W	CCC-55 1/8	DBX-55 3/8 EE & X-55 3/8 DDX-55 3/8 CCX-55 3/8	BBD-55 3/8 CCC-55 3/8 DDE-55 3/8 CC-55 3/8 DD-55 3/8 EE-55 3/8 CCDX-55 3/8	W-57	AA-56W-56E BB-56W-56E	CC-56W-56E	COLUMN NUMBER
504 AJ	503 EC	502 AJ	501 DH	500 CE	499 EB	498 BQ	497 DL	496 AX	495 BT	494 DH	493 AY	492 CW	491 AE	490 AG	TYPE
30	30	30	—	—	173	—	285	285	—	—	—	30	171	108	DEAD LOAD (KIPS) — FROM 1ST FL. STEEL COL.
62	62	62	—	—	171	—	285	285	—	—	—	62	165	147	LIVE LOAD (KIPS) — FROM 1ST FL. STEEL COL.
80	65	65	—	55	80	70	105	60	30	—	65	55	38	38	D.L. (KIPS) — FROM 1ST FL. STEEL COL.
65	55	55	—	75	60	50	115	40	40	—	100	55	92	92	L.L. (KIPS) — FROM 1ST FL. STEEL COL.
237	212	212	—	125	506	120	790	670	75	—	165	202	466	385	TOTAL LOAD TO CONCRETE COL. (KIPS) — FROM 1ST FL. STEEL COL.
22"x20"	22"x44"	22"x20"	—	18"x20"	45"x60"	12"x12"	38"x46"	33"x42"	16"x16"	—	20"φ	22"x34"	45"x40"	46"x34	SIZE (WIDTH x LENGTH) — COLUMN OR PIER
8-#7	8-#8	8-#8	—	8-#7	16-#8	4-#7	14-#9	14-#8	4-#8	—	8-#7	8-#8	14-#9	12-#8	VERT. REINF. — COLUMN OR PIER
#3@12" 2/SET	#3@12" 2/SET	#3@12" 2/SET	—	#3@12" 2/SET	#3@12" 5/SET	#3@12"	#4@12" 4/SET	#4@12" 4/SET	#3@12"	—	#3@9"	#3@12" 2/SET	#3@12" 4/SET	#3@12" 4/SET	TIES — COLUMN OR PIER
80	65	65	—	135	55	55	150	40	75	60	60	140	82	82	D.L. (KIPS) — FROM PLENUM
40	35	35	—	70	55	55	65	35	15	40	40	30	67	67	L.L. (KIPS) — FROM PLENUM
205	170	170	—	205	335	135	575	400	115	70	135	240	302	244	TOTAL DEAD LOAD (INCL. WT OF FTG. KIPS)
372	322	322	—	350	621	240	1040	660	205	110	340	387	626	550	TOTAL LOAD TO FTG (KIPS)
8-#7	8-#8	8-#7	4#7	8-#7	16-#8	4-#7	14-#9	14-#8	4-#8	8-#7	8-#7	8-#8	14-#9	12-#8	DOWELS TO COL.
13'-6"	13'-6"	13'-6"	8'-3"	14'-0"	13'-4"	13'-4"	14'-0"	13'-4"	14'-6"	13'-6"	14'-6" @ BBD & CCC 13'-6" (OTHER)	13'-6"	13'-4"	13'-4"	DIM. FROM 1ST FL. TO TOP OF COLLAR OR SHAFT
—	—	—	—	—	8'-0"x2'-6"	—	—	—	—	—	—	—	7'-0"x2'-6"	—	SIZE (DIAM. x THK.) — COLLAR
—	—	—	—	—	9-#5	—	—	—	—	—	—	—	8-#5	—	HORIZ. REINF. TOP E.W. — COLLAR
—	—	—	—	—	16-#9	—	—	—	—	—	—	—	12-#9	—	DOWELS TO COLLAR
3'-0"	4'-0"	3'-0"	3'-0"	4'-0"	5'-6"	3'-0"	6'-0"	5'-6"	3'-0"	3'-6"	3'-0"	4'-0"	4'-6"	5'-0"	DIAMETER — SHAFT
8-#8	10-#8	8-#8	8-#8	10-#8	16-#9	8-#8	16-#9	14-#9	8-#8	—	8-#8	10-#8	12-#9	12-#9	VERT. REINF. — SHAFT
#4@12"	#4@12"	#3@12"	#3@12"	#4@12"	#5@12"	#3@12"	#5@12"	#5@12"	#4@12"	—	#4@12"	#4@12"	#4@12"	#4@12"	TIES — SHAFT
5'-6"	5'-6"	5'-6"	—	6'-0"	8'-0"	5'-0"	9'-6"	8'-0"	4'-6"	—	5'-6"	6'-0"	7'-6"	7'-0"	BELL DIAMETER
															REMARKS
4'-6"φ	4'-0"φ	4'-6"φ	3'-0"φ	4'-6"φ	7'-0"φ	4'-0"φ	7'-6"φ	6'-0"φ	3'-6"φ	3'-0"φ	4'-6"φ	4'-6"φ	6'-0"φ	5'-6"φ	ALTERNATE Nº 1

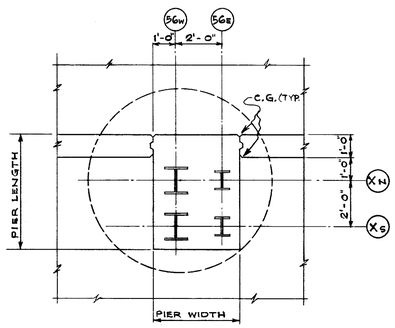
FOOTING SCHEDULE

MNN-18 3/4 MNM-18 3/4"	W-55 1/2	BD-55 2/3	COLUMN NUMBER
507	506 BDA	505 BQ	TYPE
—	—	—	DEAD LOAD (KIPS) — FROM 1ST FL. STEEL COL.
—	—	—	LIVE LOAD (KIPS) — FROM 1ST FL. STEEL COL.
—	110	61	D.L. (KIPS) — FROM 1ST FL. STEEL COL.
—	130	102	L.L. (KIPS) — FROM 1ST FL. STEEL COL.
—	240	163	TOTAL LOAD TO CONC. COLUMN (KIPS) — FROM 1ST FL. STEEL COL.
12"x12"	20"x20"	12"x12"	SIZE (WIDTH x LENGTH) — COLUMN OR PIER
4-#6	8-#8	4-#7	VERT. REINF. — COLUMN OR PIER
#3@12"	#3@12"-2/SET	#3@12"	TIES (KIPS) — COLUMN OR PIER
—	150	116	D.L. (KIPS) — FROM PLENUM
—	60	72	L.L. (KIPS) — FROM PLENUM
—	275	177	TOTAL DEAD LOAD (INCL. WT. OF FTG.) (KIPS)
—	465	351	TOTAL LOAD TO FTG. (KIPS)
4-#6	8-#8	4-#7	DOWELS TO COL.
2'-5"	14'-0"	13'-4"	DIMENSION FROM 1ST FL. TO TOP OF COLLAR OR SHAFT
—	—	—	SIZE (DIAM. x THICK) — COLLAR
—	—	—	HORIZ. REINF. (TOP E.W.) — COLLAR
—	—	—	DOWELS TO COLLAR
3'-0"	3'-0"	3'-0"	DIAMETER — SHAFT
8-#8	8-#8	8-#8	VERT. REINF. — SHAFT
#4@12"	#4@12"	#4@12"	TIES — SHAFT
—	6'-6"	6'-0"	BELL DIAMETER
			REMARKS
	5'-0"φ	4'-6"φ	ALTERNATE Nº 1



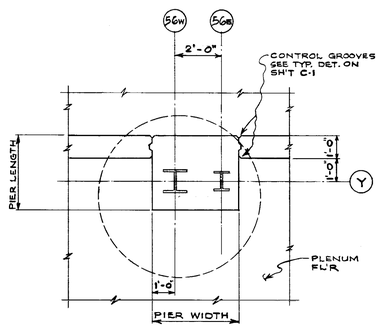
PLAN

TYPE "EC"



PLAN

TYPE "EB"



PLAN

TYPE "EA"

ALTERNATE No. 1

THE ALTERNATE #1 SHALL INCLUDE THE CAISSONS IN PLENUM AREA ONLY.

THE CAISSONS SHALL BE OF STRAIGHT SHAFT AND OF THE DIAMETER SHOWN IN THE SCHEDULE FOR ALTERNATE #1, BUT NOT LESS THAN 3'-0" DIAMETER.

THE VERTICAL REINFORCING AND TIES IN THE SHAFTS CAN BE OMITTED. THE DOWELS FROM THE SHAFTS TO PLENUM STRUCTURE SHALL BE PROVIDED AS CALLED FOR ON THE DETAILS AND IN THE SCHEDULE.

THE CAISSON ARE DESIGNED FOR 25,000 lb/S.F. ALLOWABLE BEARING PRESSURE.

THE BOTTOM ELEVATION OF CAISSONS SHALL BE AT APPROXIMATE ELEVATION OF 1265'-0"

THE BOTTOM ELEVATION OF CAISSON CAN BE RAISED OR LOWERED, BUT THE BOTTOM ELEVATION OF CAISSONS MUST EXTEND:

a. MINIMUM SIX (6) INCHES INTO HARD INDURATED MATERIAL - CEMENTED AND NON-EXPANSIVE CLAY (VERY HARD EXPANSIVE CLAY WILL NOT BE ACCEPTABLE.)

b. THE LENGTH OF CAISSONS SHALL BE NOT LESS THAN ONE-HALF THE DIAMETER OF CAISSON IN ALTERNATE #1.

THE BOTTOM OF EACH CAISSON SHALL BE INSPECTED AND APPROVED IN WRITING BY THE SOIL ENGINEER.

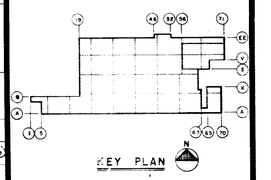
THE BOTTOM OF CAISSONS SHALL BE TESTED BY THE PLATE BEARING TEST METHOD. THE DEFORMATION UNDER THE LOAD OF 30,000 LBS. SHALL NOT BE MORE THAN 1/4 INCHES FOR A PLATE WITH A BEARING AREA OF 1/2 SQUARE FOOT.

THE BOTTOM OF EACH CAISSON SHALL BE FREE OF ALL LOOSE SOIL.

NOTE

FOR CONTINUATION OF FTG. TYPE DETAILS SEE SHT. C-45

DATE	ISSUED FOR	APPROVAL	APPROVAL
5-20-77	P.C. #28	[illegible]	[illegible]



NOTES

ALL CAISSONS LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-10-78	DG	AS BUILT	
85	9-9-77	E.K.	[illegible]	[illegible]
60	7-16-77	A.C.	[illegible]	[illegible]
61	7-7-77	E.K.	[illegible]	[illegible]
39	6/16/77	E.K.	[illegible]	[illegible]
38	6/7/77	A.C.	[illegible]	[illegible]
24	5/25/77	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 — A REAL ESTATE & CONSTRUCTION MANAGEMENT

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION

OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOOTING SCHEDULE

SHEET TITLE

OWNER'S IDENTIFICATION

4500

P. E. & C. PROJECT NUMBER

DATE

DRAWN BY R. TAYLOR

JOB CAPT. E. KUCZYNSKI

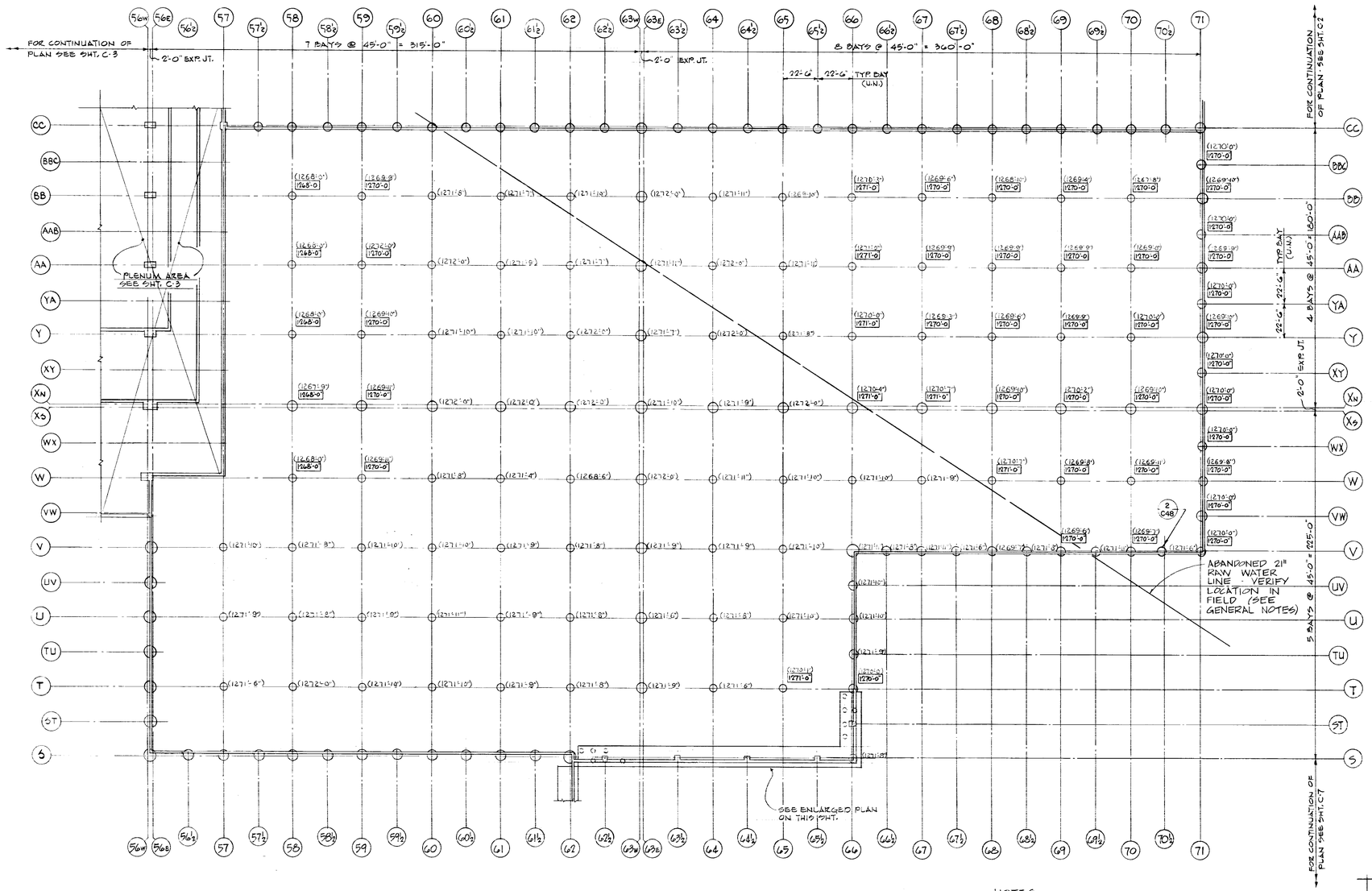
C-43

SHEET NUMBER

ARGO 110 REV. 12-69 KOKE 17 0153 2-74 1790-

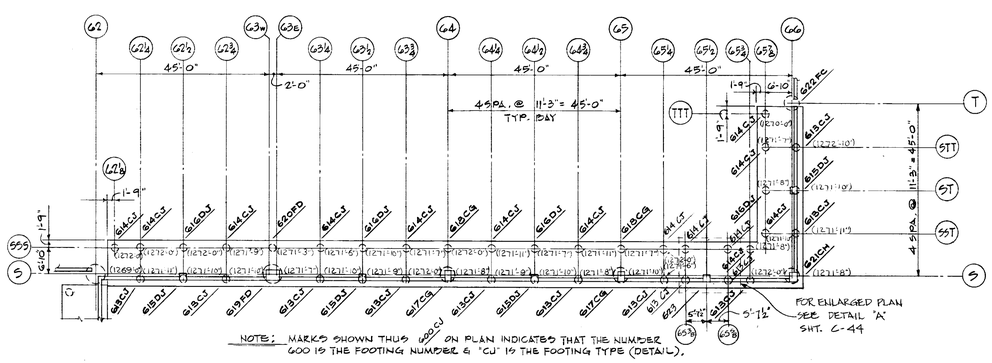
MAR 9 1978

PROJECT NO. SHEET NO.



FOUNDATION PLAN

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



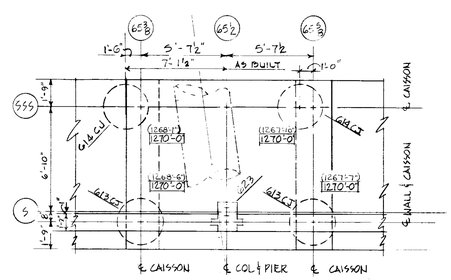
NOTE: MARKS SHOWN THUS 600 CU ON PLAN INDICATES THAT THE NUMBER 600 IS THE FOOTING NUMBER & "CU" IS THE FOOTING TYPE (DETAIL).

ENLARGED PLAN ALONG COL. LINE "5" & "66"

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

NOTES

1. ALL BOTTOM OF FOOTING ELEVATIONS 1270'-0" UNLESS OTHERWISE NOTED.
2. FOR ALL PERIMETER WALLS & GRADE BEAMS SEE SHT. C-24 & C-35.
3. FOR FOOTING NUMBERS & DETAIL TYPES SEE SHT. C17. & ALSO SEE ENLARGED PLAN ON THIS SHT.



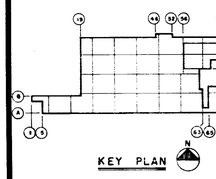
DETAIL "A"

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

NOTE:
ELEVATIONS SHOWN THUS ( ) INDICATES BOTTOM OF PIER ELEVATIONS AS BUILT.

THIS SHEET ISSUED WITH BULLETIN No. 39

DATE	ISSUED FOR	APPROVAL	APPROVAL
6/16/77	BULL #39		
6-9-78	REF. BULL #162		



NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	D.G.	AS BUILT	
130	1-6-78	L.S.		
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, 485 WEST MILWAUKIE AVENUE & DETROIT, MICHIGAN — A REAL DIVISION OF CONSTRUCTION

NEW MANUFACTURING PLANT FOR OKLAHOMA INDUSTRIES AUTHORITY TENANCY BY

GM ASSEMBLY DIVISION

GENERAL MOTORS CORPORATION
OKLAHOMA CITY OKLAHOMA

PROJECT TITLE

FOUNDATION PLAN OVEN AREA

SHEET TITLE

OWNER'S IDENTIFICATION

4500 A.E. & C. PROJECT NUMBER

DATE 6-16-77

DRAWN BY BROSKY ALCINI

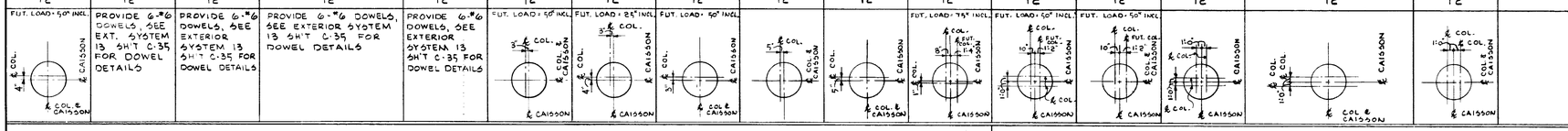
JOB CAPT. E. KLICZYNSKI

C-44 SHEET NUMBER

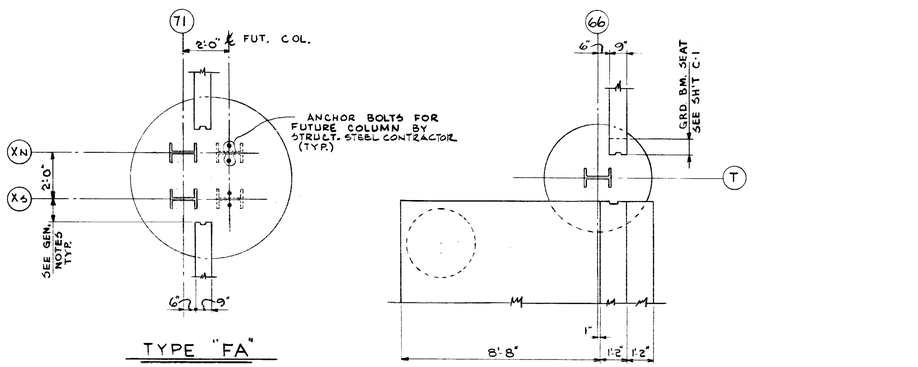
ARGO 118 REV. 12-69 KGE 17 0133 2-74 1790

PROJECT NO. SHEET NO.

COLUMN NUMBER																		
S-64 S-65	SSS-62E SSS-63E SSS-64E ST-65'8	S-62E, S-63E S-64E, ST-66	SSS-62'8, SSS-62'3 SSS-63'3, SSS-63'4 SSS-63'4, SSS-64'4 SSS-64'3, SSS-65'4 SSS-65'3, SSS-65'8 STT-65'8, TTT-65'8 SSS-65'3, SSS-65'8	S-62'4, S-62'3 S-63'4, S-63'3 S-64'4, S-64'3 S-65'4, S-65'3 SST-66'3, S-65'3 STT-66'3, S-65'8	U-66	V-66	V-67, V-68 V-69, V-70	TU-66, UV-66 VW-71, WX-71 XY-71, YA-71 AAB-71, BBC-71	V-66'2, V-67'8 V-68'2, V-69'2	V-71	XN-71 XS-71	W-71, Y-71 AA-71, BB-71	XN-63W, XN-63E, XS-63W, XS-63E	XN-58, XS-58, XN-59, XS-59 XN-60, XS-60, XN-61, XS-61 XN-62, XS-62, XN-64, XS-64 XN-65, XS-65, XN-66, XS-66 XN-67, XS-67, XN-68, XS-68 XN-69, XS-69, XN-70, XS-70	U-63W, U-63E V-63W, V-63E W-63W, W-63E Y-63W, Y-63E AA-63W, AA-63E BB-63W, BB-63E T-63W, T-63E	AA-58, BB-58, T-59, U-59, V-59, W-59, Y-59, AA-59 BB-59, T-60, U-60, V-60, W-60, Y-60, AA-60, BB-60 T-61, U-61, V-61, W-61, Y-61, AA-61, BB-61, T-62 U-62, V-62, W-62, Y-62, AA-62, BB-62, T-64, U-64 V-64, W-64, Y-64, AA-64, BB-64, T-65, U-65, V-65 W-65, Y-65, AA-65, BB-65, W-66, Y-66, AA-66, BB-66 W-67, Y-67, AA-67, BB-67, W-68, Y-68, AA-68, BB-68 W-69, Y-69, AA-69, BB-69, W-70, Y-70, AA-70, BB-70 T-57, U-57, V-57, T-58, U-58, V-58, W-58, Y-58	COLUMN NUMBER
617CG	616DJ	615DJ	614CJ	613CJ	612P	611N	610F	609P	608F	607SS	606FA	605BB	604D	603C	602B	601A	TYPE	
140	65	80	65	85	90	95	90	40	40	90	120	110	85	80	80	75	DEAD LOAD (IN KIPS INCL. WT. FTG.)	
210	65	100	65	85	130	160	130	60	60	160	165	160	125	120	120	115	TOTAL LOAD (IN KIPS)	
—	—	18" x 24"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	SIZE (WIDTH x LENGTH)	PIER
—	—	8-#6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	VERT. REINF.	PIER
—	—	#3@12" (2/SET)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	TIES	PIER
—	—	—	—	—	—	—	—	—	—	5'-6" x 2'-6"	5'-6"ϕ x 2'-6"	—	5'-6"ϕ x 2'-6"	—	—	—	SIZE (DIA. x TH'KNESS)	COLLAR
—	—	—	—	—	—	—	—	—	—	8-#5	8-#5	—	8-#5	—	—	—	HORIZ. REINF. (E.W.-TOP)	COLLAR
—	—	—	—	—	—	—	—	—	—	9-#8	9-#8	—	10-#8	—	—	—	DOWELS TO PIER OR COLLAR	COLLAR
6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	2'-2"	2'-2"	2'-2"	2'-2"	DIM. FROM 1ST. FL. TO TOP OF CAISSON	
3'-6"ϕ	3'-0"ϕ	3'-6"ϕ	3'-0"ϕ	3'-6"ϕ	4'-0"ϕ	4'-6"ϕ	4'-0"ϕ	3'-0"ϕ	3'-0"ϕ	3'-6"ϕ	3'-6"ϕ	4'-6"ϕ	4'-0"ϕ	4'-0"ϕ	4'-0"ϕ	3'-6"ϕ	DIAMETER	SHAFT
9-#8	8-#8	9-#8	8-#8	9-#8	10-#8	12-#8	10-#8	8-#8	8-#8	9-#8	9-#8	12-#8	10-#8	10-#8	10-#8	9-#8	VERT. REINF.	SHAFT
#4@12"	#4@12"	#4@12"	#4@12"	#4@12"	#5@12"	#5@12"	#5@12"	#4@12"	#4@12"	#4@12"	#4@12"	#5@12"	#5@12"	#4@12"	#4@12"	#4@12"	TIES	SHAFT
5'-6"ϕ	—	—	—	—	—	—	—	—	—	5'-0"ϕ	5'-0"ϕ	—	—	—	—	—	BELL DIAMETER	
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	MIN. ALLOW SOIL BRG(K.SF)	
FUT. LOAD-50" INCL.	PROVIDE 6-#6 DOWELS, SEE EXT. SYSTEM 13 SHT C-35 FOR DOWEL DETAILS	PROVIDE 6-#6 DOWELS, SEE EXTERIOR SYSTEM 13 SHT C-35 FOR DOWEL DETAILS	PROVIDE 6-#6 DOWELS, SEE EXTERIOR SYSTEM 13 SHT C-35 FOR DOWEL DETAILS	PROVIDE 6-#6 DOWELS, SEE EXTERIOR SYSTEM 13 SHT C-35 FOR DOWEL DETAILS	FUT. LOAD-50" INCL.	FUT. LOAD-25" INCL.	FUT. LOAD-50" INCL.			FUT. LOAD-75" INCL.	FUT. LOAD-50" INCL.	FUT. LOAD-50" INCL.					REMARKS	

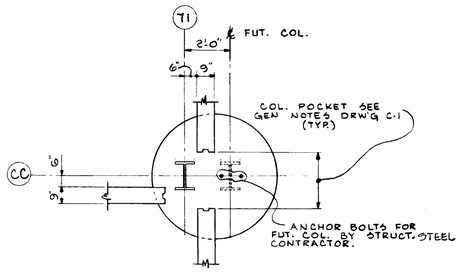


COLUMN NUMBER								
	V-70'2	S-65'2	T-66	S-66	SSS-63	S-63W S-63E	SSS-64 SSS-65	COLUMN NUMBER
	608 *	623	622FC	621CH	620FD	619FD	618CG	TYPE
	40	80	130	145	65	140	65	DEAD LOAD (IN KIPS INCL. WT. FTG.)
	60	100	190	210	65	225	65	TOTAL LOAD (IN KIPS)
	—	18" x 24"	—	—	—	—	—	SIZE (WIDTH x LENGTH) PIER
	—	8-#6	—	—	—	—	—	VERT. REINF. PIER
	—	#3@12" (2/SET)	—	—	—	—	—	TIES PIER
	—	—	—	—	—	—	—	SIZE (DIA. x TH'KNESS) COLLAR
	—	—	—	—	—	—	—	HORIZ. REINF. (E.W.-TOP) COLLAR
	—	—	—	—	—	—	—	DOWELS TO PIER OR COLLAR COLLAR
	3'-0"	—	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	DIM. FROM 1ST. FL. TO TOP OF CAISSON
	3'-0"ϕ	—	4'-0"ϕ	4'-0"ϕ	3'-0"ϕ	5'-0"ϕ	3'-0"ϕ	DIAMETER SHAFT
	8-#8	—	10-#8	10-#8	8-#8	12-#8	8-#8	VERTICAL REINF. SHAFT
	#4@12"	—	#5@12"	#5@12"	#4@12"	#5@12"	#4@12"	TIES SHAFT
	—	—	5'-0"ϕ	5'-0"ϕ	—	6'-0"ϕ	—	BELL DIAMETER
	12	—	12	12	12	12	12	MIN. ALLOW. SOIL BRG(K.SF)
	* SEE FOOTING DETAIL 2/C48		FUT. LOAD: 50" INCL.	FUT. LOAD: 75" INCL.	PROVIDE 6-#6 DOWELS, SEE SH'T C-35 FOR DETAIL	FUT. LOAD: 50" INCL.	PROVIDE 6-#6 DOWELS, SEE SH'T C-35 FOR DETAIL.	REMARKS



TYPE "FA"

TYPE "FC"



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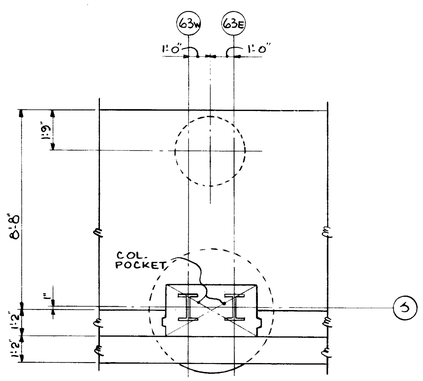

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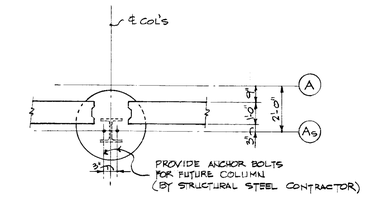
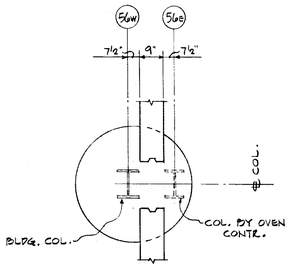


PLAN

TYPE "FH"



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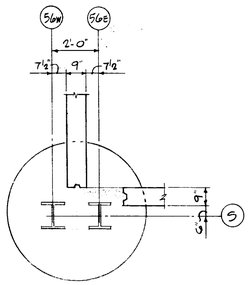

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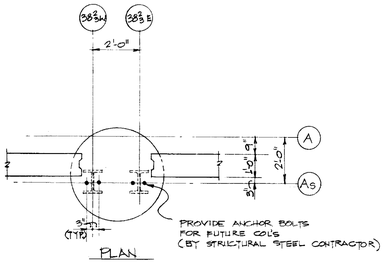
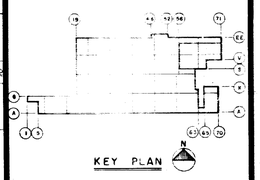


PLAN

TYPE "FJ"

DATE	ISSUED FOR	APPROVAL	APPROVAL
6/14/77	BULL. #39		
6-9-78	REF. BUL. #42		



KEY PLAN

NOTE:
ALL CAISSON LOCATION DETAILS SHOWN IN REMARKS COLUMN ARE ORIENTATED WITH NORTH AS SHOWN ABOVE.

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
57	7-27-77	DLW.		
61	7-7-77	E.K.		

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
REGISTERED
STATE
NUMBER
DATE

ARGONAUT DIVISION

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

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

PROJECT TITLE

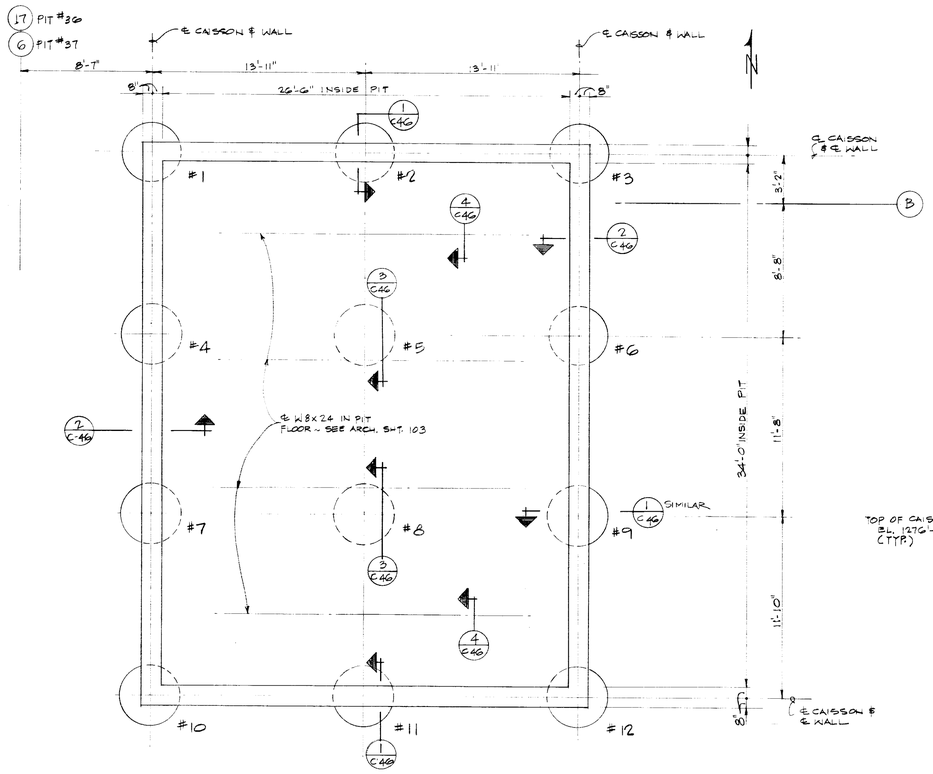
FOOTING SCHEDULE AND DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION
ARGONAUT PROJECT NUMBER: 4500
DATE 6-16-77
DRAWN BY BROSKY
JOB CAPT. E. KUCZYNSKI
SHEET NUMBER: C-45

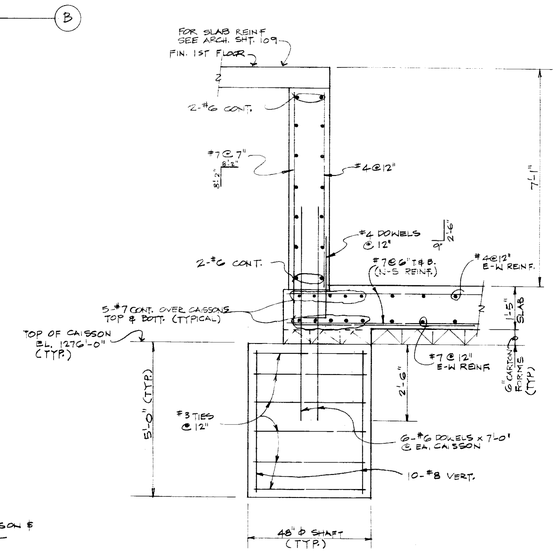
ARGO 118 REV. 12-69 K&E 17 0183 2-74 1790-

PROJECT NO. SHEET NO.

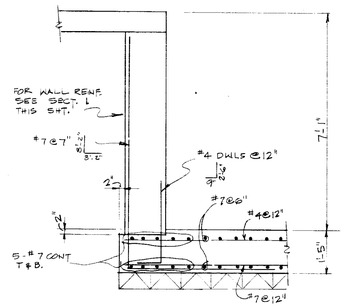


ENLARGED FOUNDATION PLAN
PIT #36 & #37

SCALE ~ 1/2"=1'-0"

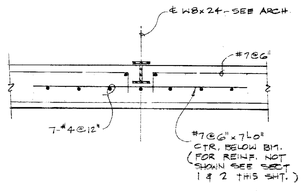


1 / C-46 1/2"=1'-0"

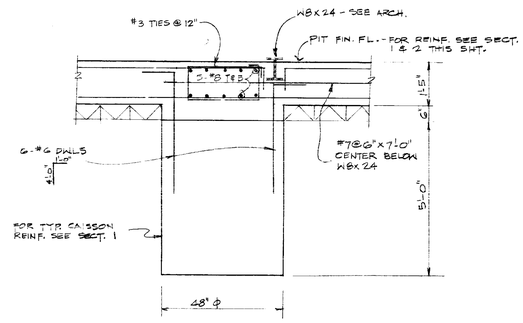


2 / C-46 1/2"=1'-0"

NOTE - FOR OTHER RELATED PIT DETAILS NOT SHOWN ON THIS SHEET SEE ARCH. DWGS.



4 / C-46 1/2"=1'-0"



3 / C-46 1/2"=1'-0"

AS BUILT
BOT. OF CAISSON ELEVATIONS

CAISSON No.	PIT # 36	PIT # 37
1	1269'-10"	1270'-11"
2	1270'-8"	1269'-9"
3	1270'-1"	1270'-2"
4	1270'-1"	1269'-10"
5	1270'-7"	1270'-5"
6	1270'-6"	1270'-9"
7	1270'-3"	1270'-10"
8	1270'-6"	1270'-4"
9	1270'-4"	1270'-9"
10	1270'-9"	1271'-0"
11	1270'-4"	1270'-4"
12	1270'-4"	1270'-7"

THIS SHT. ISSUED WITH P.C. BULLETIN #85

DATE	ISSUED FOR	APPROVAL	APPROVAL

NO.	DATE	BY	APPROVAL	APPROVAL
142	6-19-78	DG	AS BUILT	
130	1-6-78	LS	EK 7/MA	
85	9-9-77	EK	JSA 9/96	MK/RK

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — 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
GM ASSEMBLY DIVISION
GENERAL MOTORS CORPORATION
OKLAHOMA CITY, OKLAHOMA

PROJECT TITLE

PITS #36 & #37
PLAN & DETAILS

SHEET TITLE

OWNER'S IDENTIFICATION

P.E. & C PROJECT NUMBER: 4500

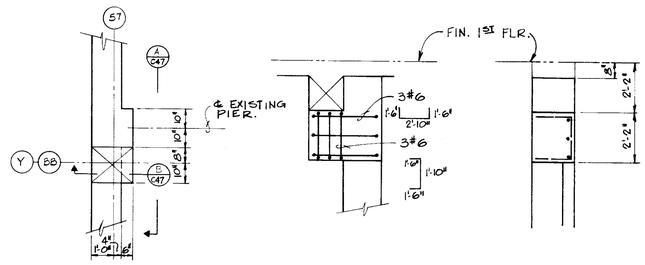
DATE 9-6-77

DRAWN BY J.E.

JOB CAPT. E. KUCZYNSKI / D. GASTOB

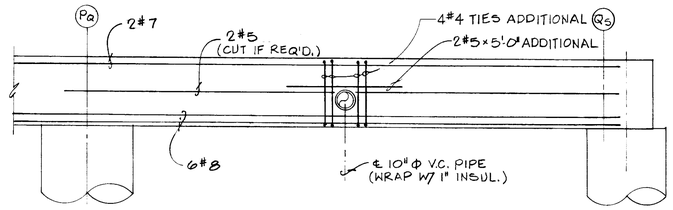
SHEET NUMBER: C·46

ARGO 145 KAE 17 0153 8-74 2027

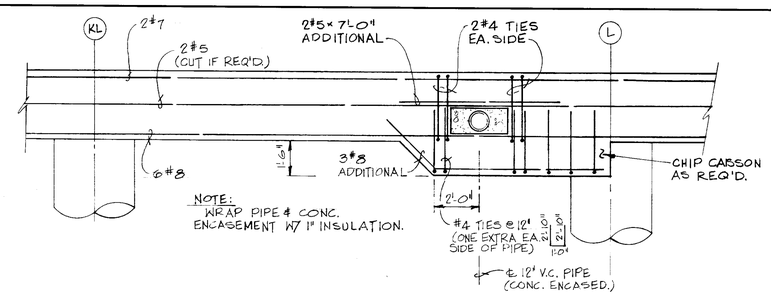


DETAIL "1"

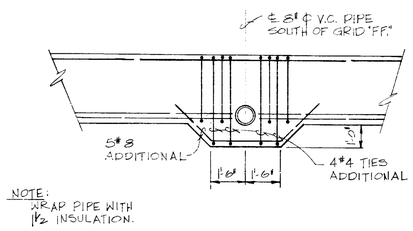
A C·47 B C·47



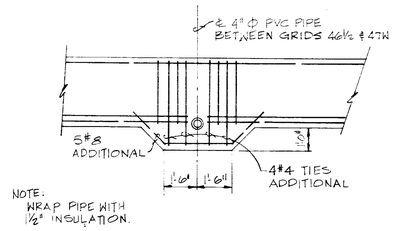
DETAIL "2"
@ GRID 58 5/8



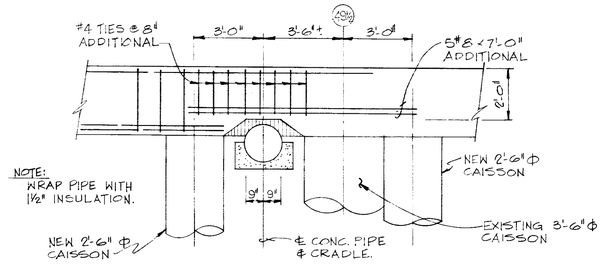
DETAIL "3"
@ GRID 58 5/8



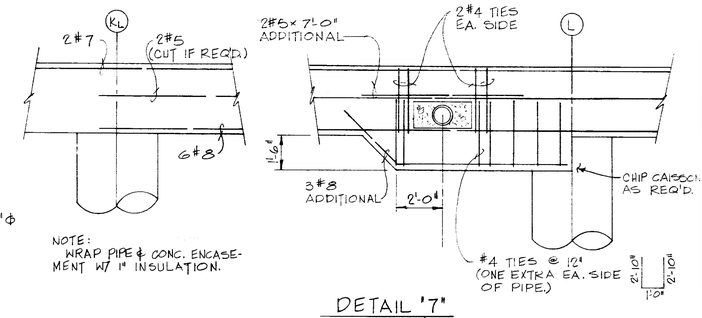
DETAIL "4"
@ GRIDS 47E & FF



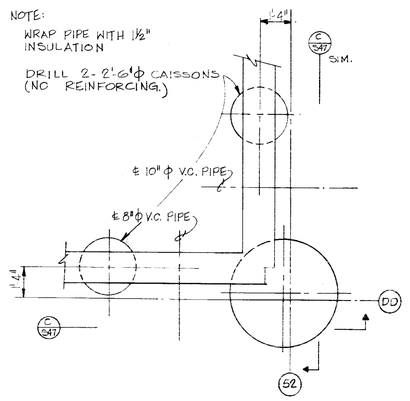
DETAIL "5"
@ GRID "DD"



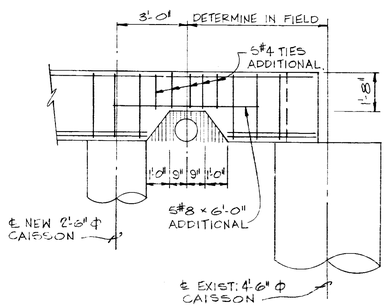
DETAIL "6"
@ GRID "DD"



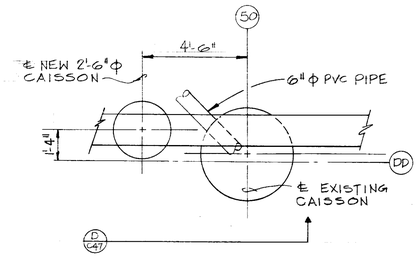
DETAIL "7"
@ GRID 59 1/4



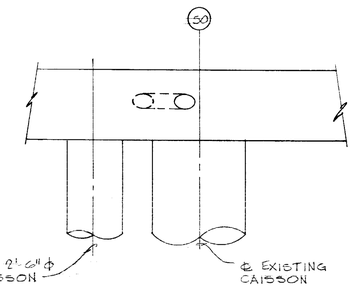
DETAIL "8"



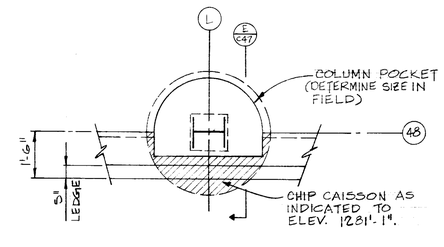
C C47



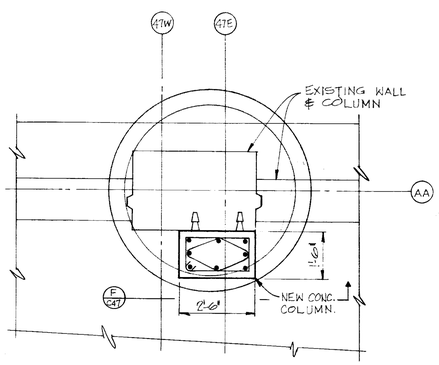
DETAIL "9"



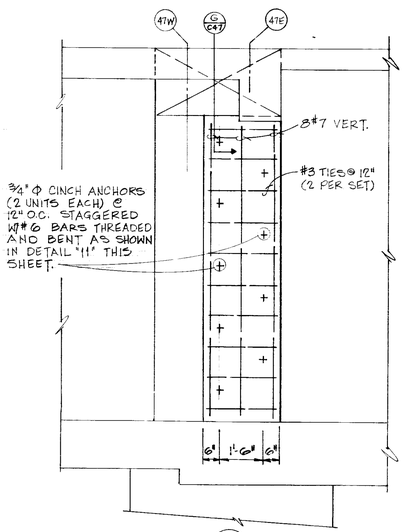
D C47



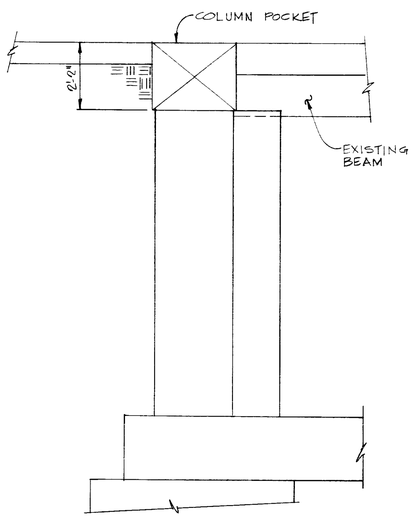
DETAIL "10"
½" = 1'-0"



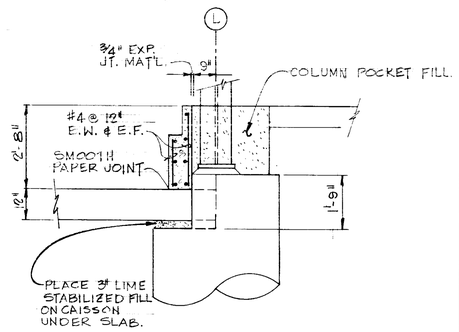
DETAIL "11"
½" = 1'-0"



F C47 ½" = 1'-0"



G C47 ½" = 1'-0"



E C47 ½" = 1'-0"

NOTE:

SCALE FOR ALL DETAILS & SECTIONS ON THIS SHT. ⅜" = 1'-0" UNLESS NOTED.

THIS SHEET ISSUED WITH BULLETIN # 142.

DATE	ISSUED FOR	APPROVAL	APPROVAL
6-19-78	BULL. # 142	ASBUILT	

NO.	DATE	BY	APPROVAL	APPROVAL

REVISIONS

CONTRACT SIGNATURES — FOR THE OWNER — FOR THE CONTRACTOR

DRAWING CERTIFIED BY — DATE

GM Plant Engineering & Construction

General Motors Corporation 485 West Milwaukee Avenue Detroit, Michigan 48202

PROJECT TITLE

SHEET TITLE

OWNER'S IDENTIFICATION

P.E. & C. PROJECT NUMBER: 4500

DATE

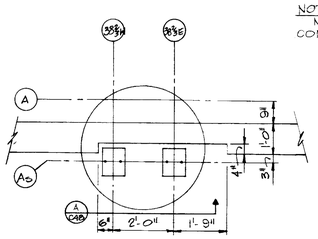
DRAWN BY W. SCOTT

JOB CAPT. M. THOMPSON

SHEET NUMBER: C·47

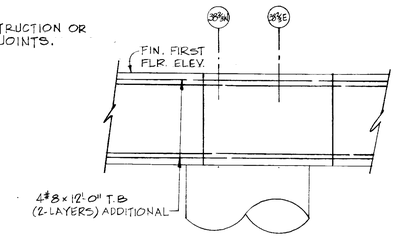
P.E. & C. 145 REV. 1-77 K&E 17 0153 12-77 3489+

PROJECT NO. SHEET NO.

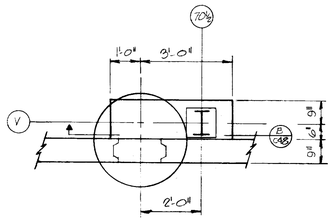


DETAIL "1"
1/2" = 1'-0"

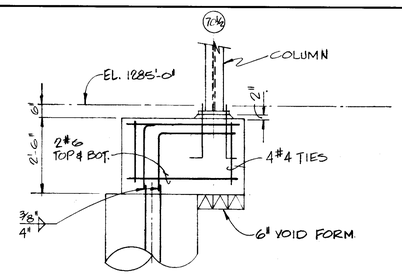
NOTE:
NO CONSTRUCTION OR CONTROL JOINTS.



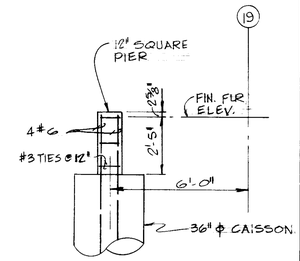
A / C-48 1/2" = 1'-0"



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



B / C48 1/2" = 1'-0"



4 / C5 3/8" = 1'-0"

PLAN

NOTE:
ALL REINFORCING #5 BARS.

DETAIL "3"
1/2" = 1'-0"

C / C48 1" = 1'-0"

DETAIL "4"
3/8" = 1'-0"

NOTE:
THIS SHEET ISSUED WITH BULLETIN #142.

DATE	ISSUED FOR	APPROVAL	APPROVAL
1-19-78	BULL #142	AS BUILT	

NO.	DATE	BY	APPROVAL	APPROVAL

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