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PROJECT DATA

EXTENT OF WORK: ADDITION TO FIRE STATION NO. 4

OCCUPANCY GROUP: B - 2

TYPE OF CONSTRUCTION: V N

FLOOR AREA OF ADDITION: 1312 SQ. FT.

OCCUPANT LOAD: 15

SEISMIC ZONE: 2

SOIL BEARING CAPACITY: 1500 PSF

CONCRETE STRENGTH: 3000 PSI

STRESS VALUES:

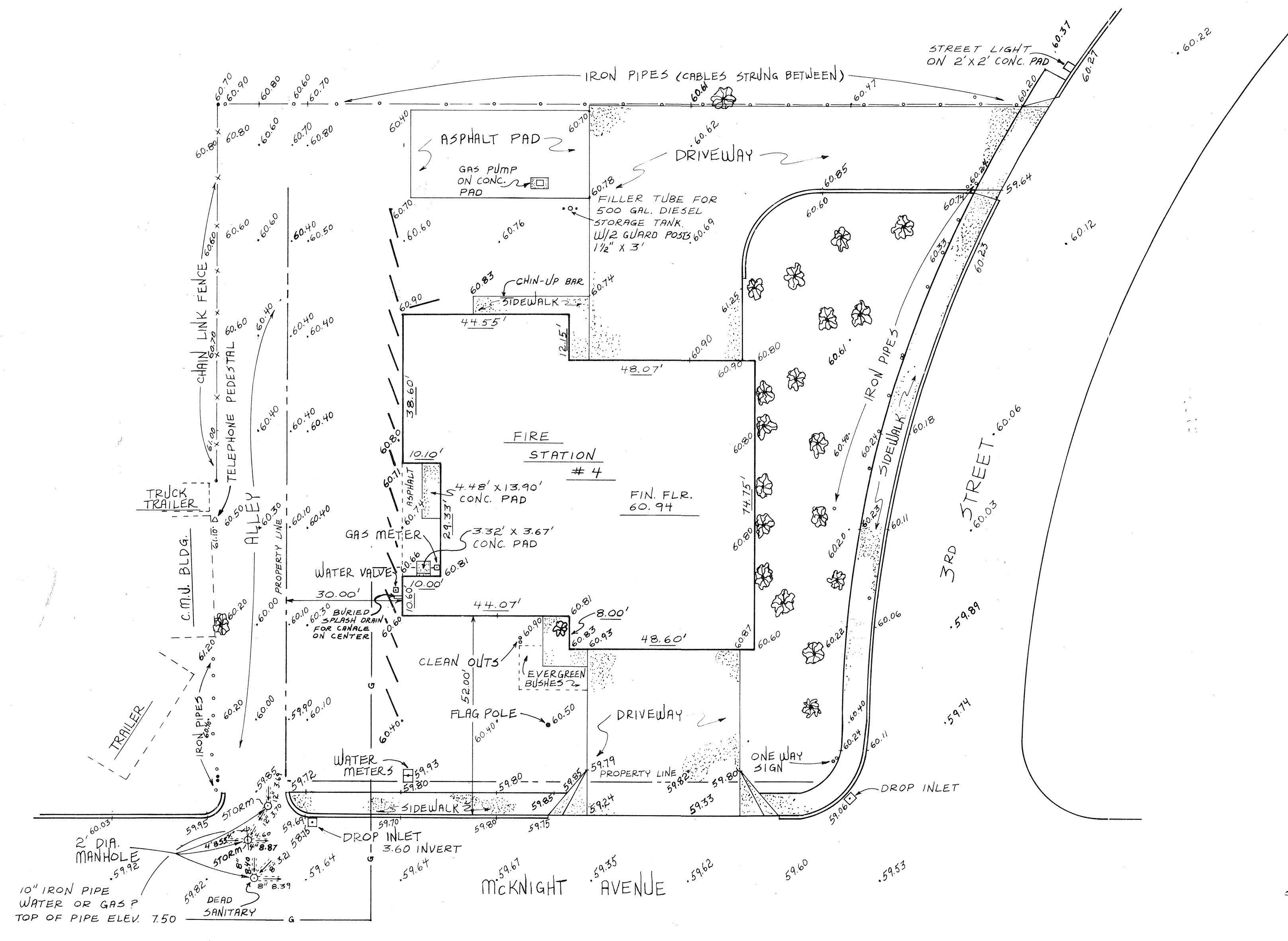
LUMBER: DOUGLAS FIR NO. 2 OR BETTER

STEEL: 36,000 PSI

WIND DESIGN LOAD: 23.3

ROOF DESIGN LOAD: 20 PSF (LIVE)

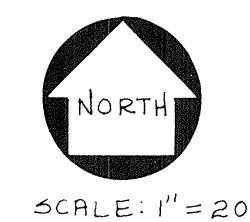
CORRIDOR DESIGN LOAD: 15



REVISED: JUNE 10, 1985

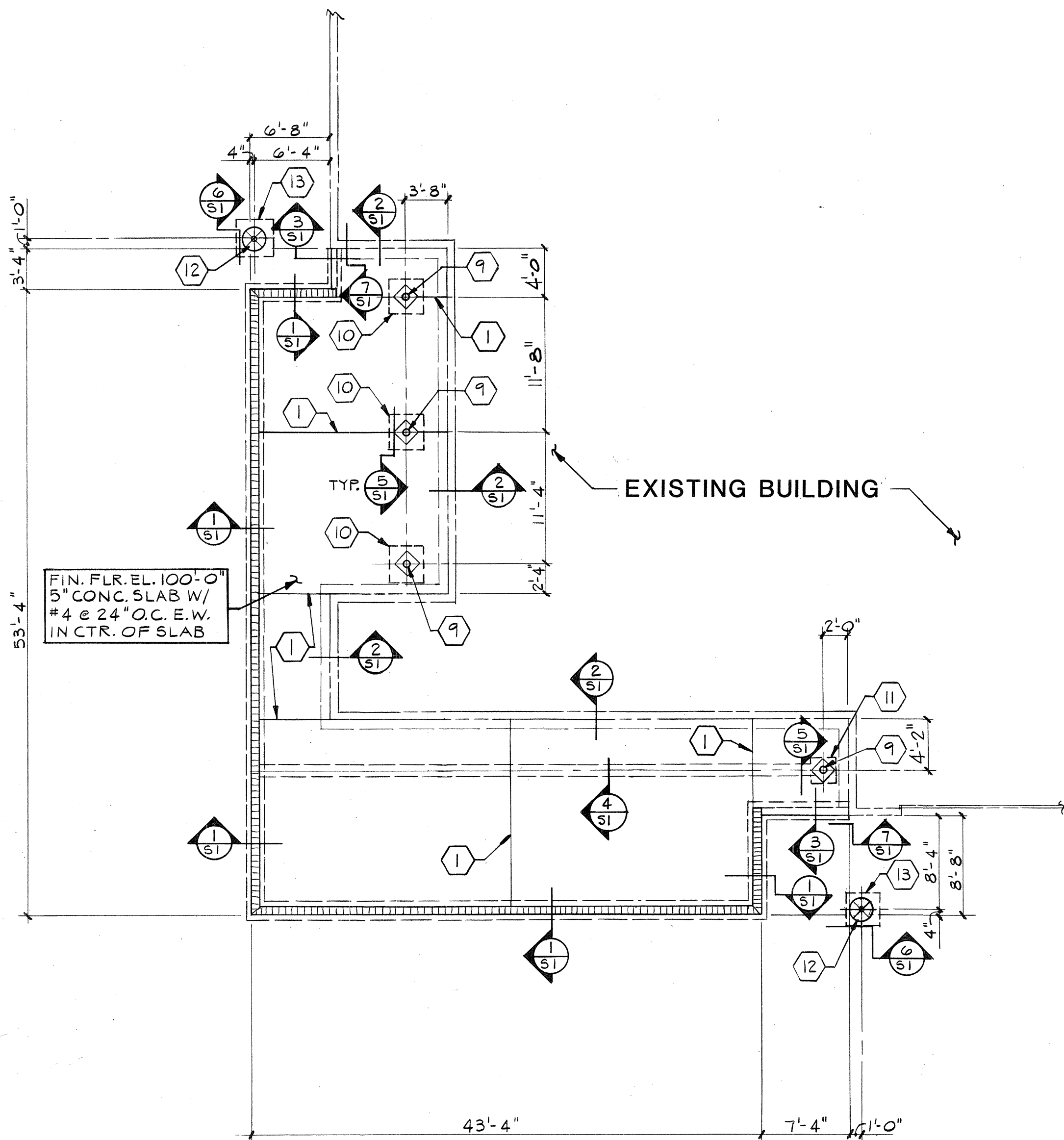
TOPOGRAPHIC SURVEY
FIRE STATION #4
S.W. CORNER,
CORONADA PARK

FOR RAY TRUJILLO & ASSOCIATES, P.A.

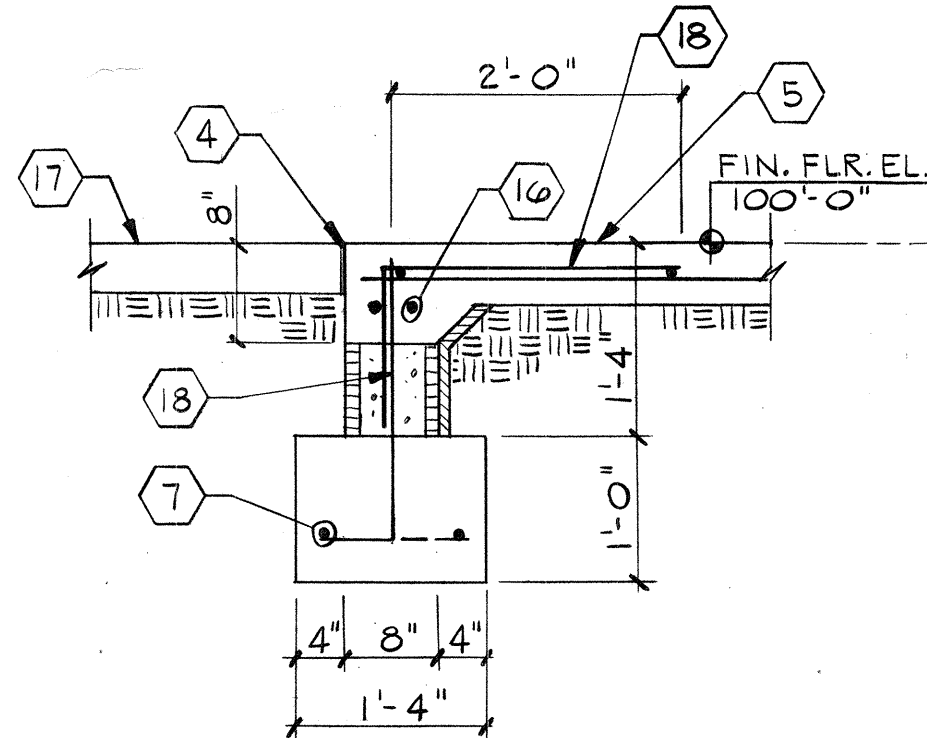


Gordon J. Douglas
& Associates, P.C.
Professional Surveyors
New Mexico
Arizona

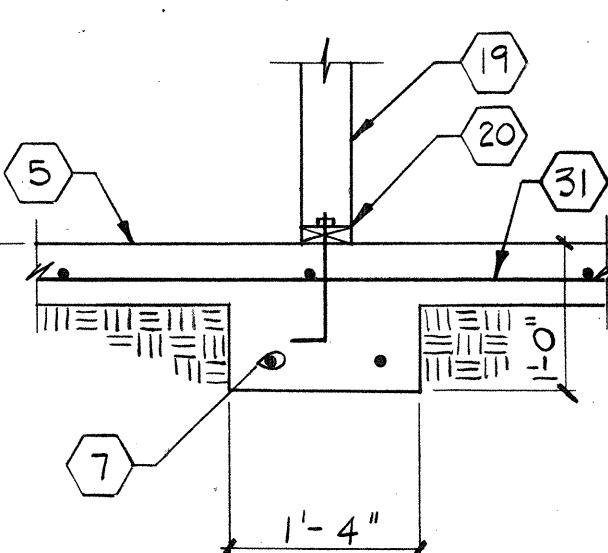
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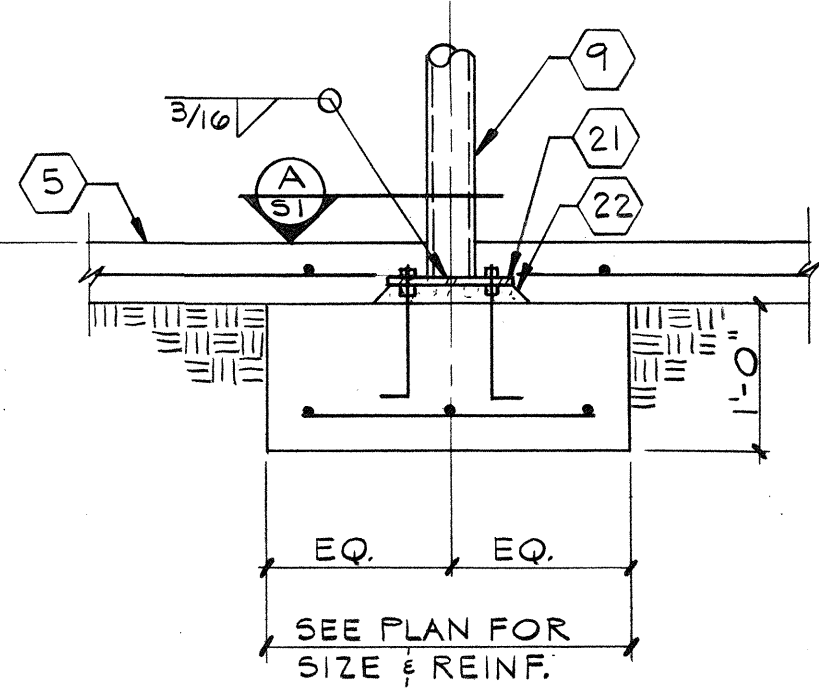
FOUNDATION PLAN
1/8" : 1'-0"



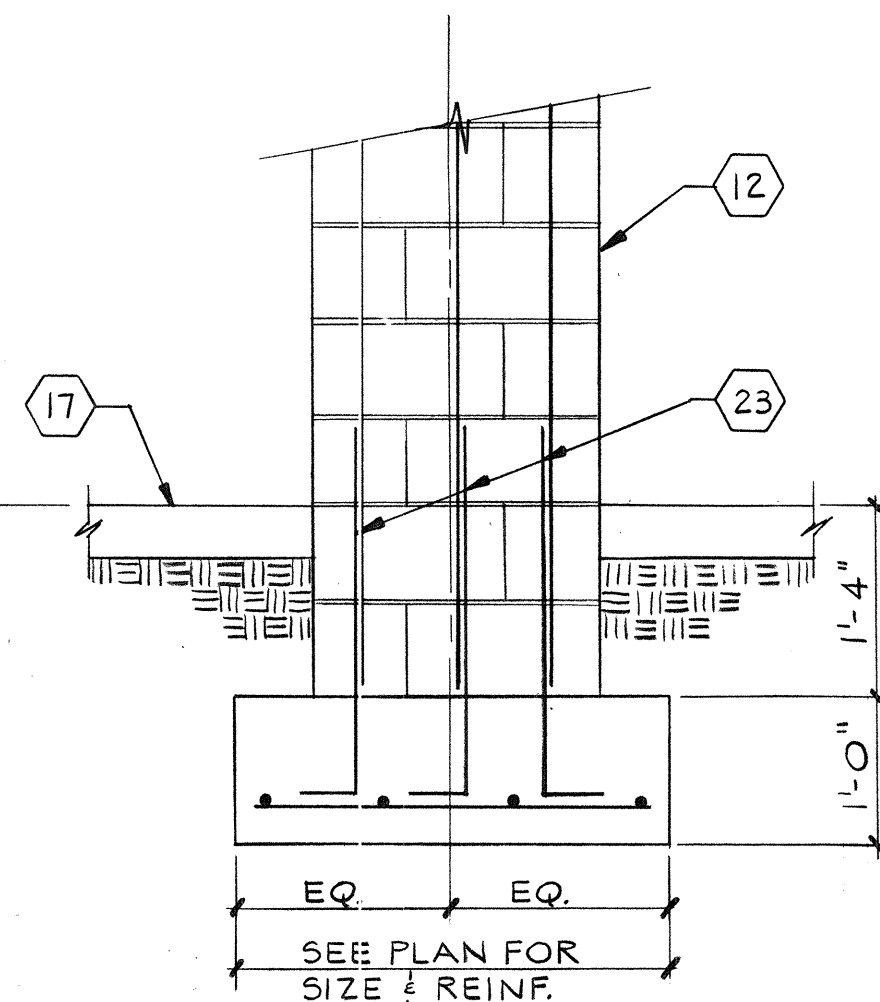
SECTION 3
3/4" : 1'-0"



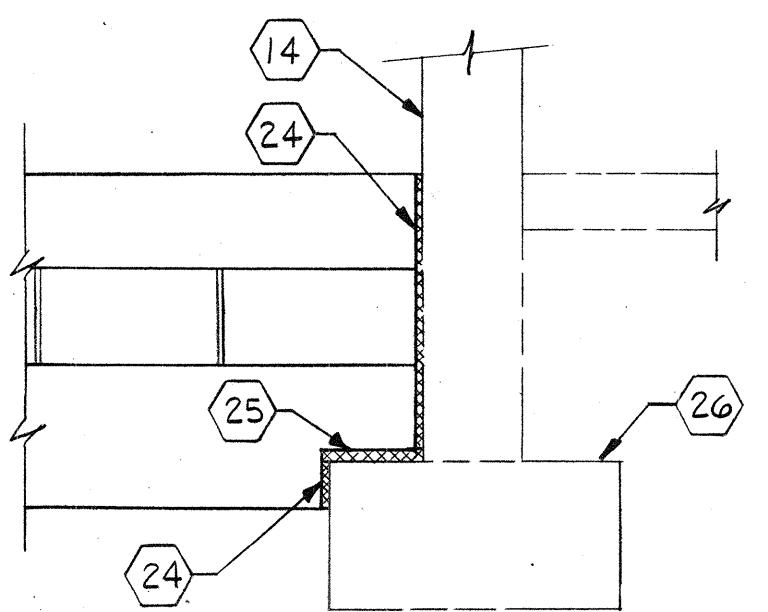
SECTION 4
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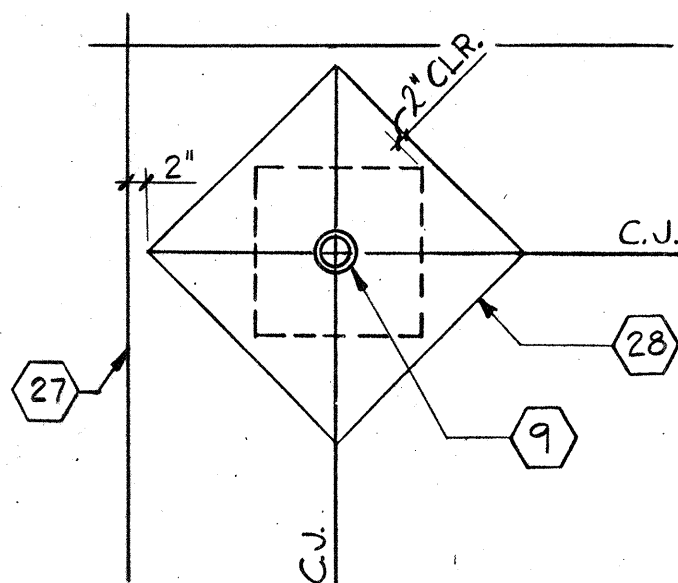
SECTION 5
3/4" : 1'-0"



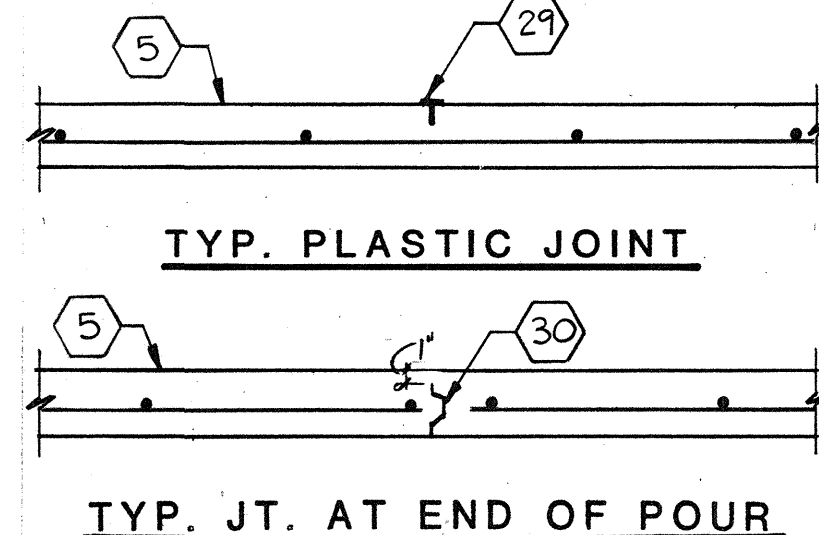
SECTION 6
3/4" : 1'-0"



SECTION 7
3/4" : 1'-0"

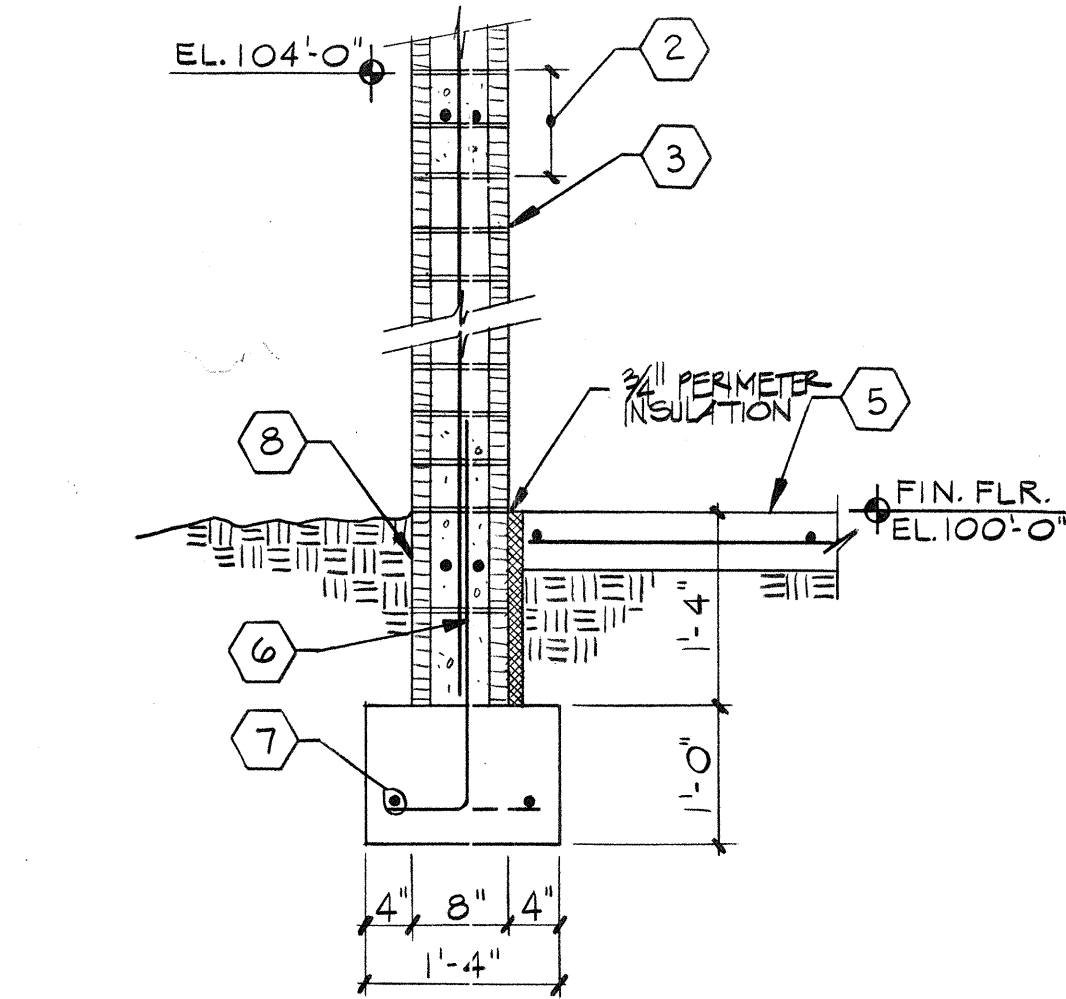


DETAIL A
NO SCALE

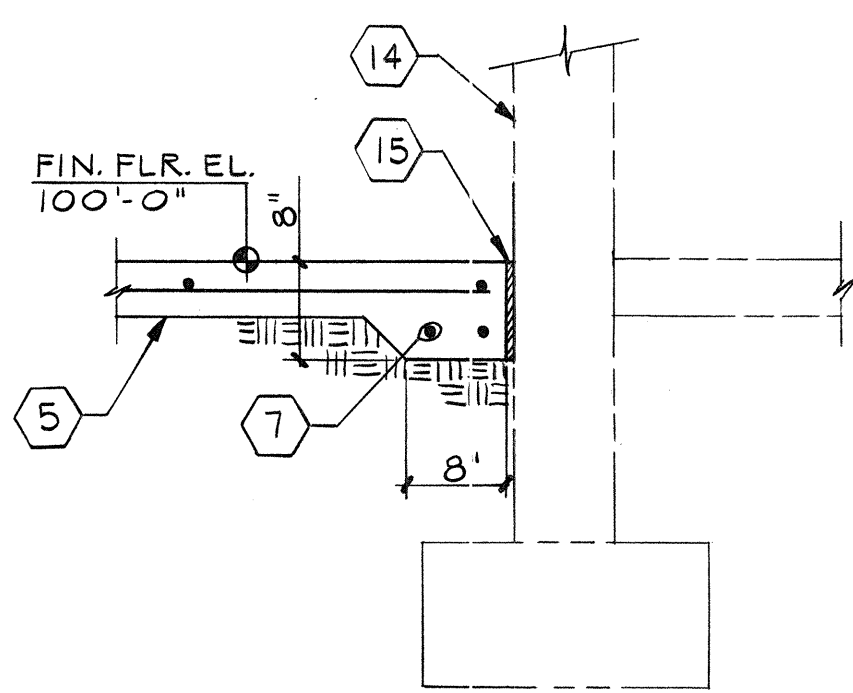


C.J. DETAILS B
NO SCALE

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SECTION 1
3/4" : 1'-0"



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

- KEYED NOTES**
- CONTROL JOINT, SEE DETAIL (B) S1
 - CONTINUOUS BOND BEAM WITH 2 - #5. GROUT FULL 8" SOLID.
 - 8" CMU WALL WITH #5 VERTICAL @ 32" ON CENTER.
 - CONTINUOUS BOND BREAKER.
 - 5" CONCRETE FLOOR SLAB WITH #4 @ 24" ON CENTER EACH WAY IN CENTER OF SLAB.
 - #5 DOWEL @ 16" ON CENTER.
 - 2 - #4 CONTINUOUS.
 - CONTINUOUS KNOCKOUT BOND BEAM WITH 2 - #5.
 - 3"Ø STANDARD STEEL PIPE COLUMN.
 - FOOTING 2'-6"x2'-6"x1'-0" WITH 3 - #4 EACH WAY.
 - FOOTING 2'-0"x2'-0"x1'-0" WITH 3 - #4 EACH WAY.
 - 2'-0"Ø CMU COLUMN WITH 1 - #5 VERTICAL IN EACH CELL.
 - FOOTING 3'-0"x3'-0"x1'-0" WITH 4 - #4 EACH WAY.
 - EXISTING BUILDING WALL.
 - CONTINUOUS 1/2" EXPANSION JOINT.
 - CONTINUOUS BOND BEAM REINFORCING THRU TURN DOWN.
 - EXTERIOR SLAB, SEE ARCHITECTURAL.
 - #4 DOWELS @ 24" ON CENTER.
 - 2x4 WOOD STUDS AT 16" ON CENTER.
 - CONTINUOUS 2x4 PLATE WITH 1/2"Ø ANCHOR BOLTS AT 32" ON CENTER
 - BASE PLATE 5/8"x9"x0'-9" WITH 4 - 5/8"Ø ANCHOR BOLTS
 - 1 1/2" NONSHRINK GROUT.
 - DOWELS TO MATCH VERTICAL COLUMN REINFORCING.
 - 1" EXPANSION JOINT MATERIAL.
 - 2" EXPANSION JOINT MATERIAL.
 - EXISTING FOOTING.
 - #4 x 4'-0" OMIT AT CONTROL JOINT.
 - SLAB BLOCKOUT.
 - PLASTIC TEE CONTROL JOINT, SET IN TOOLED JOINT IN WET CONCRETE.
 - CONTINUOUS 22 GAGE GALVANIZED KEY JOINT. DO NOT USE AS FORM, HOLD 1" BELOW TOP OF SLAB.
 - ALTERNATE #4 x 7'-0" WITH SLAB REINFORCING TO PROVIDE #4 @ 12" ON CENTER TRANSVERSE OVER FOOTING.

STRUCTURAL NOTES

EARTHWORK

- IF UNSUITABLE CONDITIONS ARE ENCOUNTERED AT ANY FOOTING AREA, CONTRACTOR SHALL NOTIFY ARCHITECT AND CEASE WORK IN THAT AREA UNTIL FURTHER NOTICE.
- PROVIDE 4" OF COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE.
- ALLOWABLE SOIL BEARING CAPACITY - 1500 PSF.
- ALL FOOTINGS SHALL BEAR ON NATURAL SOILS.
- A SOIL INVESTIGATION FOR THIS PROJECT WAS PREPARED BY ATL ENGINEERING SERVICES. THE REPORT IS NO. 2-08571-85 DATED MAY 31, 1985. A COPY OF THIS REPORT IS INCLUDED IN THE SPECIFICATIONS UNDER DIVISION 1, SECTION 02200.

CONCRETE & REINFORCING

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS LISTED BELOW:

F'C = 4000 PSI (PORTLAND CEMENT I-II, AIR ENTRAINED) ALL EXTERIOR SIDEWALKS, STAIRS, SLABS, PADDS, CURBS AND GUTTERS.

F'C = 3000 PSI (PORTLAND CEMENT I-II) ALL CAST-IN-PLACE CONCRETE FOR THE STRUCTURE.
- ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 40, MINIMUM YIELD STRENGTH OF 40,000 PSI.
- ALL CONCRETE AND REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-72) AND THE ACI STANDARD DETAILING MANUAL (ACI 315-80).
- PROVIDE BAR SUPPORTS AND SPACERS FOR REBAR IN ACCORDANCE WITH ACI 315 AND CHAIRS WITH 22 GAGE SAND PLATES FOR ALL REBAR BEARING ON GRADE.
- WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE LAP SHALL BE MADE AS FOLLOWS: HORIZONTAL AND VERTICAL REINFORCING 30 BAR DIAMETERS OR 24" MINIMUM UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP 30 BAR DIAMETERS OR 24" MINIMUM.

- VERTICAL BULKHEADS IN FOOTINGS ARE PERMITTED AT POINTS NO CLOSER THAN 10'-0" FROM ANY CORNER OR INTERSECTION. HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH BULKHEADS. NO SPLICES SHALL BE MADE WITHIN 5'-0" OF ANY BULKHEAD.
- CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
FOOTINGS - 3" FROM BOTTOM AND SIDES.
SLABS ON GRADE - AS NOTED ON DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL COLUMN, WALL DOWELS AND VERTICAL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAINS IN THIS POSITION DURING THE PLACING OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TIE BARS WHERE REQUIRED. STICKING OF DOWELS, ANCHOR BOLTS, ETC., INTO WET CONCRETE WILL NOT BE ACCEPTABLE. ANY REINFORCING OR OTHER EMBEDMENT FOUND TO BE IMPROPERLY INSTALLED SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. REINFORCING SHALL NOT BE FIELD BENT WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- SHOP DRAWINGS SHALL BE FURNISHED FOR APPROVAL BEFORE ANY FABRICATION AND ERECTION IS STARTED. POORLY EXECUTED SHOP DRAWINGS SHALL BE REJECTED AND RESUBMITTED.

MASONRY

- ALL MORTAR FOR MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 1800 PSI, USE TYPE 'S'. ALL GROUT FOR MASONRY WALL CORE FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000 PSI.
- ALL REINFORCING STEEL FOR MASONRY SHALL BE ASTM-615, GRADE 40, MINIMUM YIELD STRENGTH OF 40,000 PSI.
- ALL HOLLOW MASONRY OR BRICK TO BE REINFORCED SHALL BE MARKED WITH KEEL AT THE BOTTOM OF THE WALL AT THE CELLS WHERE DOWELS OCCUR OR REBAR IS TO BE PLACED AND GROUTED.
- CELLS OF MASONRY WALLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL. CLEAN OUTS SHALL BE PROVIDED AT THE BOTTOM OF WALLS AT ALL CELLS TO BE GROUTED WITH LIFTS GREATER THAN FOUR FEET HIGH.
- MASONRY REINFORCING: VERTICAL AND HORIZONTAL REINFORCING SHALL BE PLACED AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN USE #5 @ 32" O.C. VERTICALLY. ALL REBAR SHALL BE LAPPED 40 DIAMETERS OR 2'-0" MINIMUM. SPLICES IN HORIZONTAL REINFORCING SHALL BE STAGGERED SO THAT NO MORE THAN ONE SPLICE OCCURS IN ANY 10'-0" LENGTH OF WALL EXCEPT AT CORNERS.
- UNLESS OTHERWISE NOTED, EXTEND VERTICAL REINFORCING IN MASONRY WALLS THROUGH KNOCK OUT BOND BLOCK COURSES. REINFORCING IN KNOCK OUT BOND BEAM COURSES SHALL BE: 12" BLOCK, 2-#5; 8" BLOCK, 2-#5 AND 6" BLOCK, 2-#4 UNLESS OTHERWISE NOTED. FOR ALL BOND BEAMS, INSTALL ONE CORNER BAR FOR EACH HORIZONTAL REBAR IN THE BEAM.
- UNLESS OTHERWISE NOTED OR DETAILED, VERTICAL REINFORCING IN ALL MASONRY WALLS SHALL BE AS FOLLOWS:
A. ONE VERTICAL IN EACH OF THE THREE CELLS AT ALL CORNERS.
B. ONE VERTICAL IN EACH OF THE TWO CELLS AT THE END OF ALL DISCONTINUOUS WALL RUNS.
C. ONE VERTICAL IN EACH OF THE TWO CELLS AT EACH SIDE OF ALL CONTROL JOINTS.
D. ONE VERTICAL IN EACH OF THE TWO CELLS AT EACH SIDE OF ALL MASONRY WALL OPENINGS.
- MASONRY CELLS TO BE FILLED WITH CONCRETE AT VERTICAL REINFORCING SHALL BE FILLED PRIOR TO PLACING VERMICULITE OR LOOSE INSULATION.
- UNLESS OTHERWISE SHOWN, PROVIDE MASONRY CONTROL JOINTS ON EXTERIOR WALLS AT THE FOLLOWING LOCATIONS: A MINIMUM OF 12'-0" FROM ALL CORNERS AND A MAXIMUM OF 32'-0" O.C. IN ALL STRAIGHT WALL RUNS.
- WHERE EARTH FILL IS REQUIRED ON ONE OR BOTH SIDES OF MASONRY WALLS, THE WALL SHALL BE GROUTED SOLID WITH CONCRETE TO THE HEIGHT OF THE EARTH FILL OR AS SPECIFIED OTHERWISE.

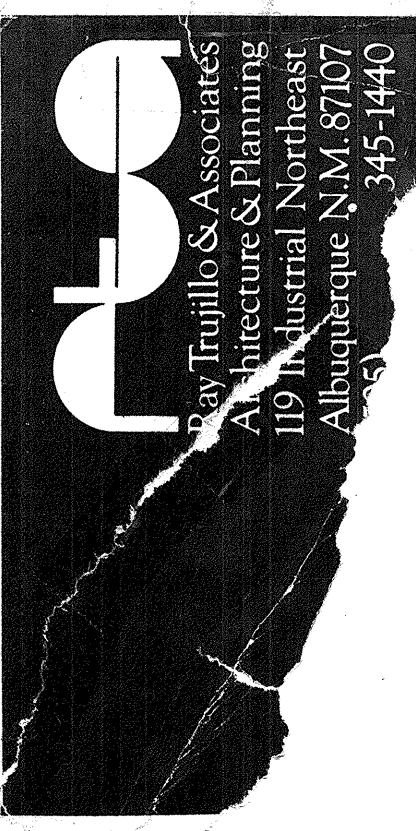
STRUCTURAL STEEL

- ALL STRUCTURAL AND MISCELLANEOUS STEEL MEMBERS, SHAPES AND CONNECTIONS SHALL BE ASTM A36, HAVING A MINIMUM YIELD STRENGTH OF 36,000 PSI.
- ALL STRUCTURAL STEEL PIPE SHAPES SHALL BE ASTM A53, GRADE B, HAVING A MINIMUM YIELD STRENGTH OF 35,000 PSI.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ARCHITECTURAL DRAWINGS FOR ALL MISCELLANEOUS STEEL.
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS AND AISC.
- ALL ANCHOR BOLTS SHALL BE ASTM A307 UNLESS OTHERWISE NOTED.
- ALL CONNECTION BOLTS SHALL BE ASTM A307N.

MISCELLANEOUS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
- ALL TRADES SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE GENERAL CONTRACTOR AND ARCHITECT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH ALL NECESSARY FOUNDATIONS AND SUPPORT STRUCTURES FOR MECHANICAL EQUIPMENT AND ALL NECESSARY HANGING DEVICES AND INSERTS FOR INSTALLATION OF MECHANICAL EQUIPMENT.
- WHERE CONFLICTS OCCUR BETWEEN SPECIFICATIONS, REFERENCED CODES, NOTES AND WORKING DRAWINGS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- DESIGN DATA

LOADS	LOCATION	LIVE LOAD	DEAD LOAD
ROOF	SEISMIC	20 PSF	25 PSF
WIND	WIND	UBC ZONE II	
		23.3 PSF	
	PROJECTED AREA METHOD		
	Ce	1.2	
	Cs	1.3	
	qs	13.0 PSF	
	I	1.15	



PROJECT: ADDITION TO FIRE STATION NO. 4
NEW
ALBUQUERQUE

SHT. TITLE: FOUNDATION PLAN, DETAILS & STRUCTURAL NOTES

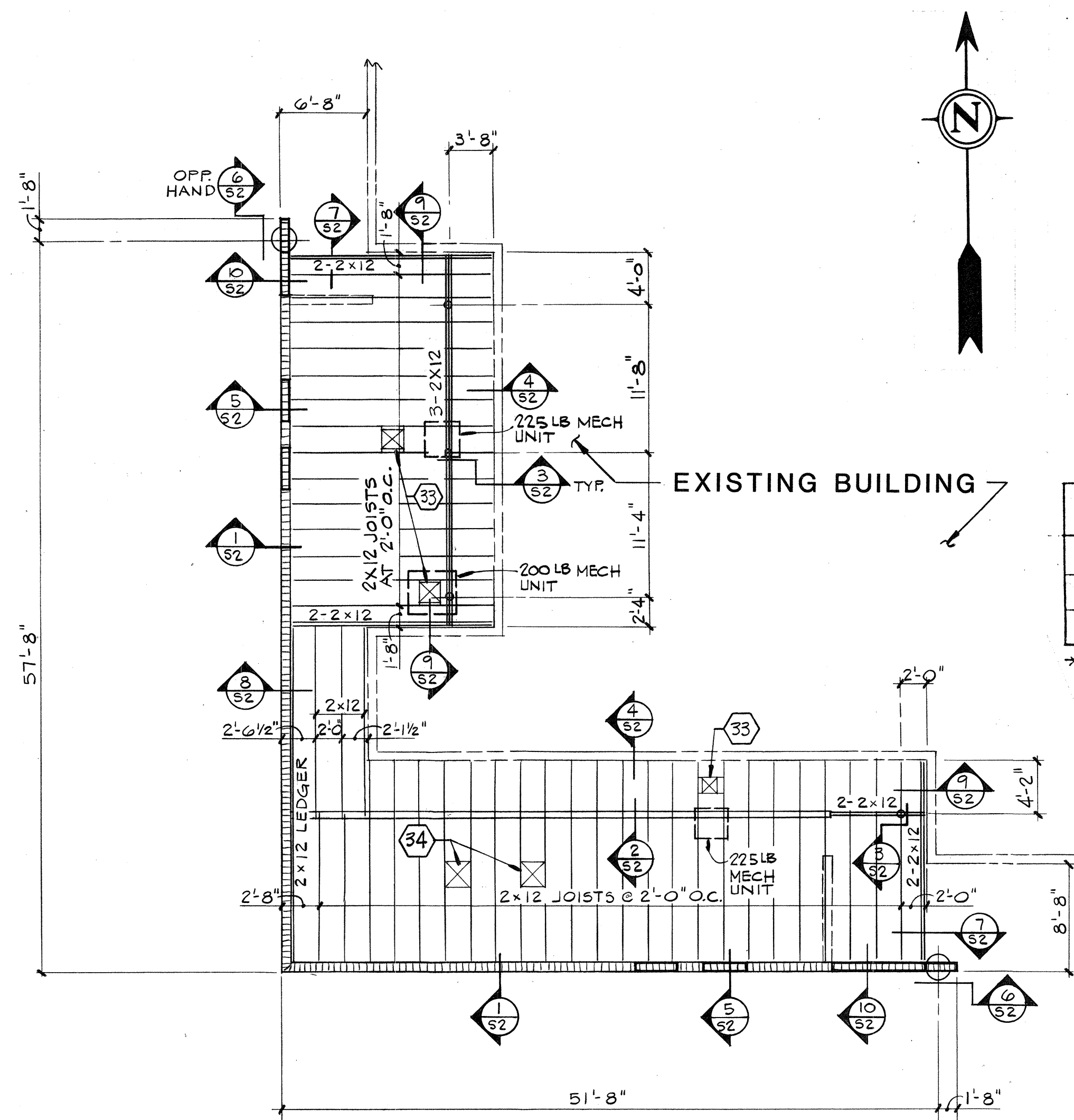
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DRWN: **DATE:** JUNE 86

RVNS:

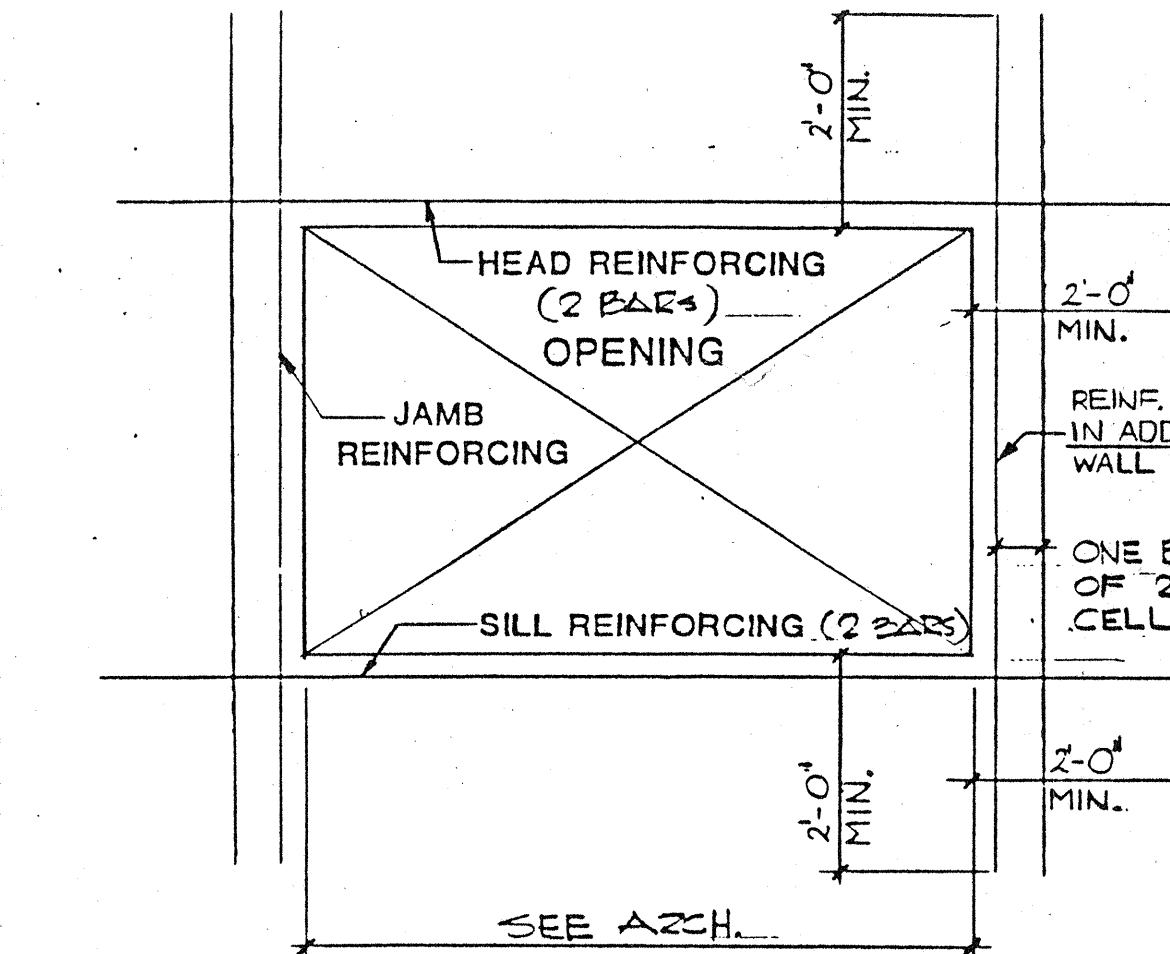
ENCR:

ARCH:

SHEET: S1
2 OF 11



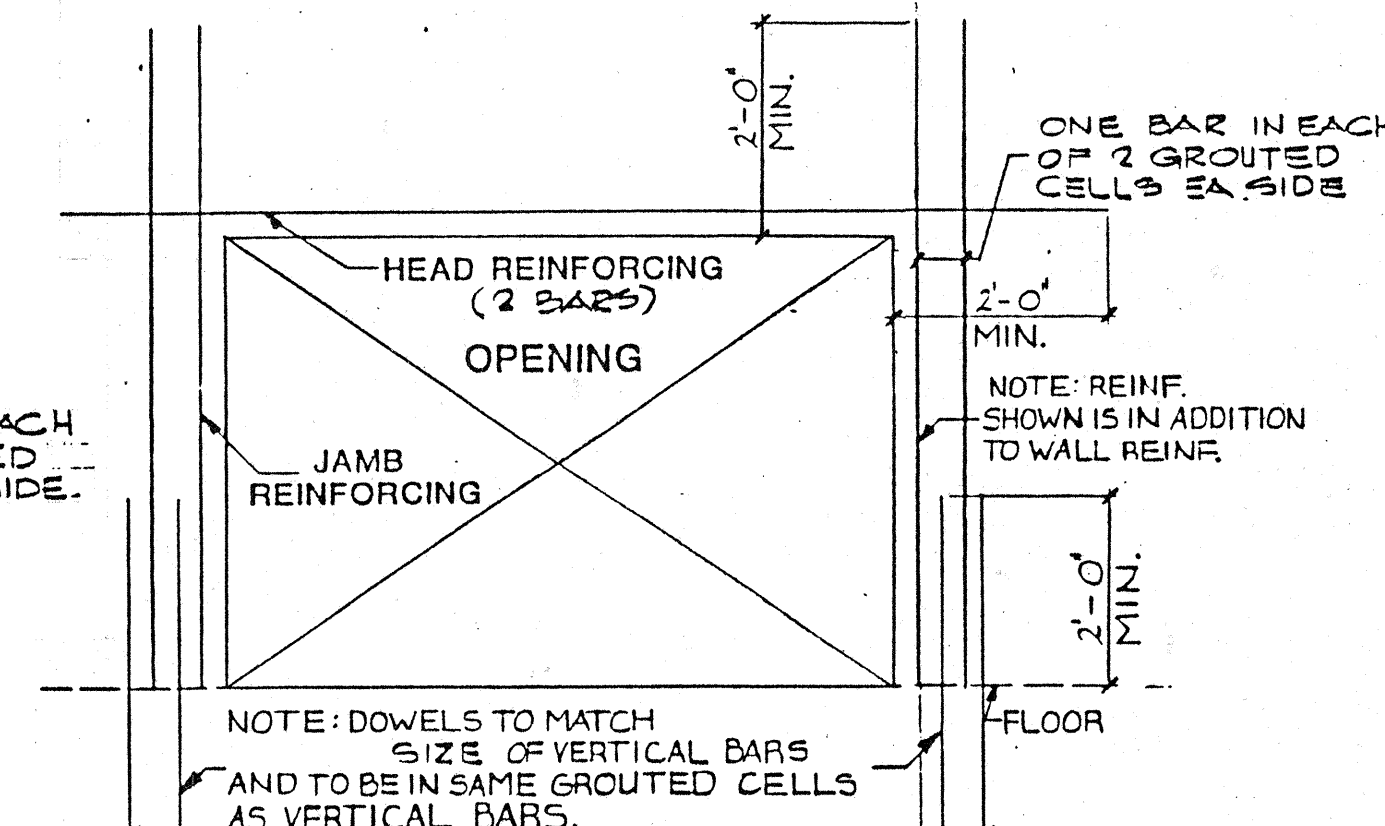
ROOF FRAMING PLAN
1/8" = 1'-0"



OPENING SIZE	LINTEL DEPTH *	HEAD *	JAMB & SILL
TO 5'-0"	3 COURSES	2-#5	2-#5
5'-0" TO 7'-0"	4 COURSES	2-#5	2-#5
7'-0" TO 10'-0"	6 COURSES	2-#6	2-#5

* UNLESS OTHERWISE NOTED IN SCHEDULE.

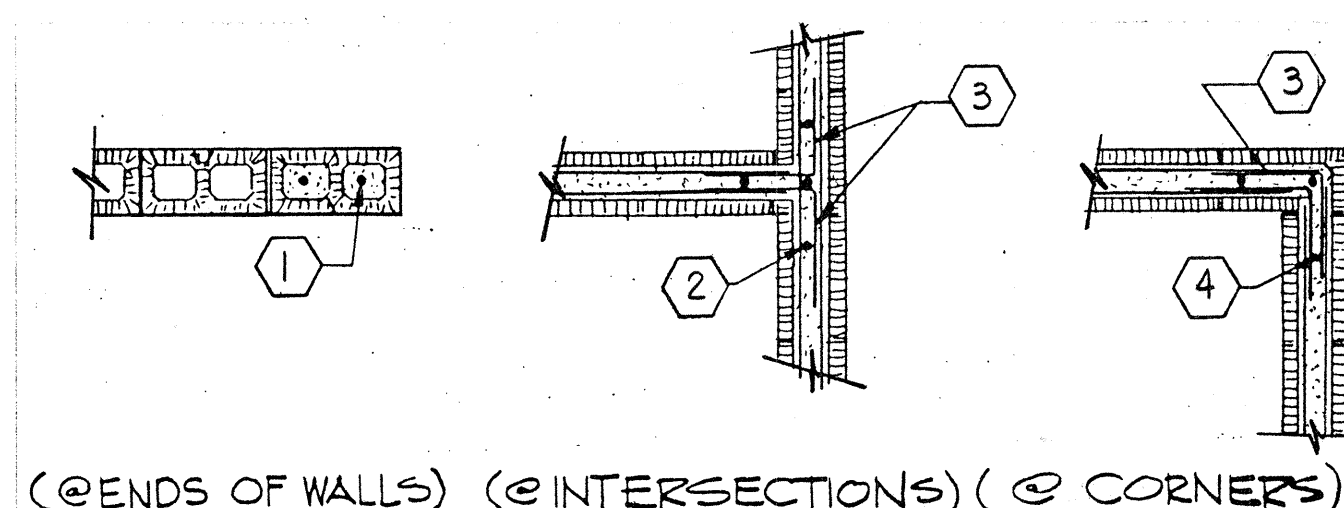
MASONRY OPENING
TYPICAL UNLESS SHOWN OR NOTED OTHERWISE
FOR ALL WINDOWS OR MECHANICAL OPENINGS



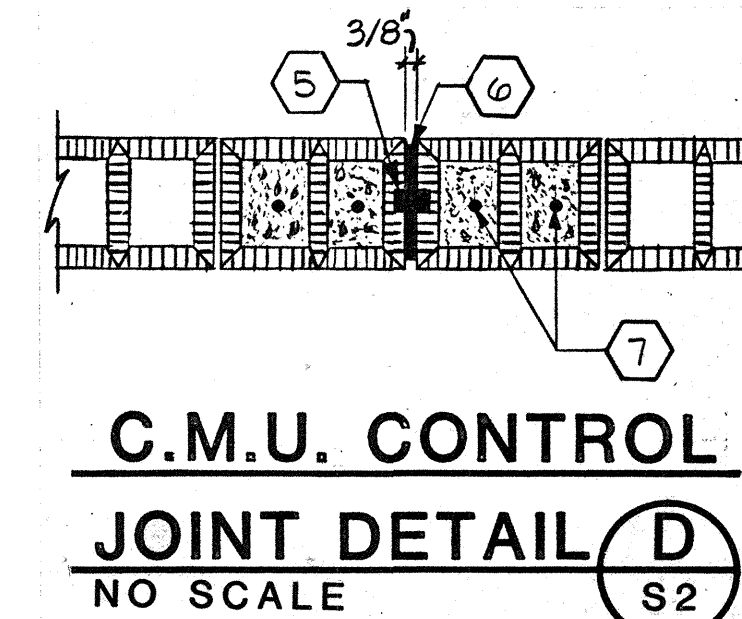
OPENING SIZE	LINTEL DEPTH *	HEAD *	JAMB
TO 5'-0"	3 COURSES	2-#5	2-#5
5'-0" TO 7'-0"	4 COURSES	2-#5	2-#5
7'-0" TO 10'-0"	6 COURSES	2-#6	2-#5

* UNLESS OTHERWISE NOTED IN SCHEDULE.

MASONRY DOOR OPENING
TYPICAL UNLESS SHOWN OR NOTED OTHERWISE

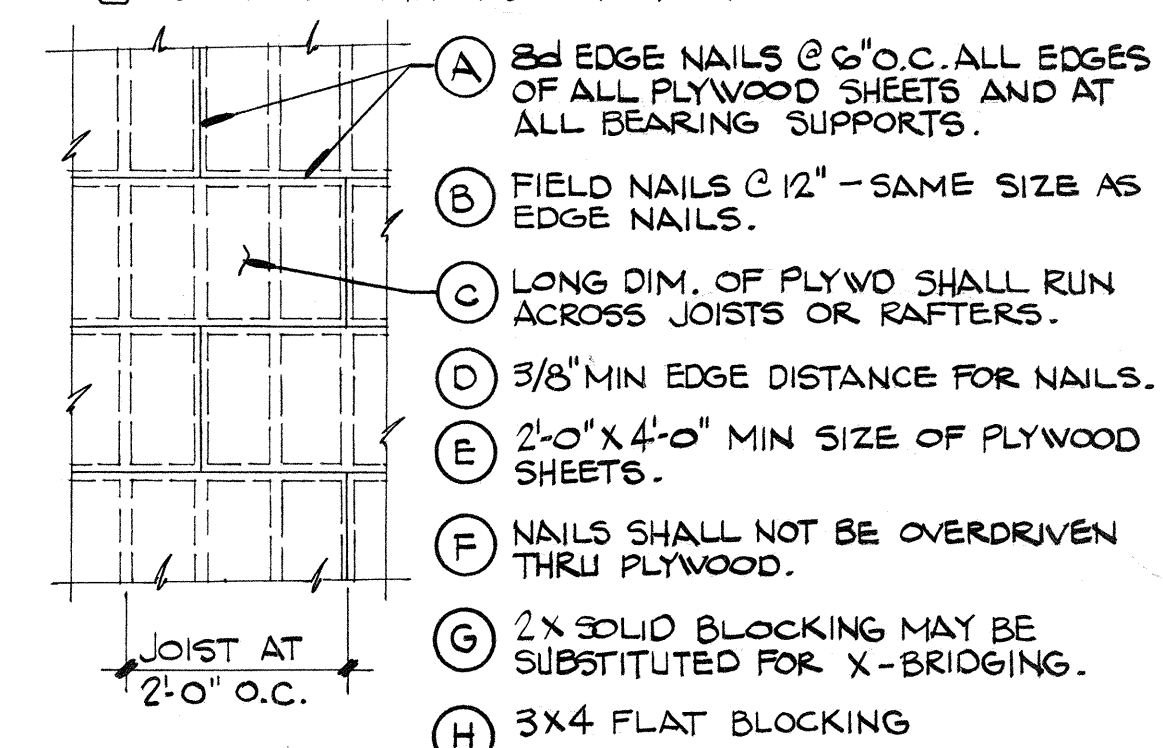


DETAIL A **DETAIL B** **DETAIL C**
NO SCALE
ADD'L WALL REINF. DETAILS TYPICAL



C.M.U. CONTROL JOINT DETAIL D
NO SCALE

- KEYED NOTES**
- ONE VERTICAL IN EACH OF TWO CELLS AT THE END OF ALL DISCONTINUOUS WALL RUNS.
 - ONE VERTICAL IN EACH OF FOUR CELLS AT THE INTERSECTION OF TWO WALLS.
 - CORNER BARS AT ALL HORIZONTAL BOND BEAM REINFORCING $\frac{12}{12}$ "
 - ONE VERTICAL IN EACH OF THE THREE CELLS AT ALL CORNERS.
 - FLANGE RUBBER CONTROL JOINT.
 - FILL WITH SEALANT.
 - ONE VERTICAL IN EACH OF THE TWO CELLS AT EACH SIDE OF CONTROL JOINT.
 - CARDBOARD SLEEVE.
 - BOND BEAM REINFORCING.
 - CMU WALL CONTROL JOINT.
 - CONTINUOUS 2x8 PLATE WITH 1/2" Ø ANCHOR BOLTS @ 32" ON CENTER $\frac{12}{2}$ "
 - 3/4" PLYWOOD DECK.
 - JOIST, SEE PLAN.
 - SIMPSON U210 JOIST HANGER.
 - CONTINUOUS 3x12 LEDGER WITH 3/4" Ø ANCHOR BOLTS $\frac{8}{2}$ " @ 24" ON CENTER.
 - CONTINUOUS BOND BEAM WITH 2 - #5.
 - CONTINUOUS U-BLOCK WITH 2 - #5. GROUT LOWER 3 COURSES SOLID.
 - 8" CMU WALL WITH #5 VERTICAL @ 32" ON CENTER.
 - 2x12 BLOCKING BETWEEN JOISTS.
 - DOUBLE 2x4 CAP PLATE.
 - 2x4 STUDS @ 16" ON CENTER.
 - BEAM, SEE PLAN.
 - 3" Ø STANDARD STEEL PIPE COLUMN.
 - EXISTING ROOF.
 - EXISTING CONCRETE BEAM.
 - EXISTING BUILDING WALL.
 - DOWELS TO MATCH VERTICAL COLUMN REINFORCING.
 - 2'-0" Ø CMU COLUMN WITH 1 - #5 VERTICAL IN EACH CELL.
 - CONTINUOUS 2x12 LEDGER WITH 3/4" Ø ANCHOR BOLTS $\frac{12}{2}$ " @ 32" ON CENTER.
 - CONTINUOUS 2x12 BLOCKING.
 - SIMPSON CCO 4 1/2 COLUMN CAP.
 - CUT BLOCK AS REQUIRED TO FORM SLOPE.
 - MECHANICAL ROOF OPENING. SEE MECH FOR SIZE.
 - SKYLIGHT OPENING. SEE ARCH FOR SIZE.

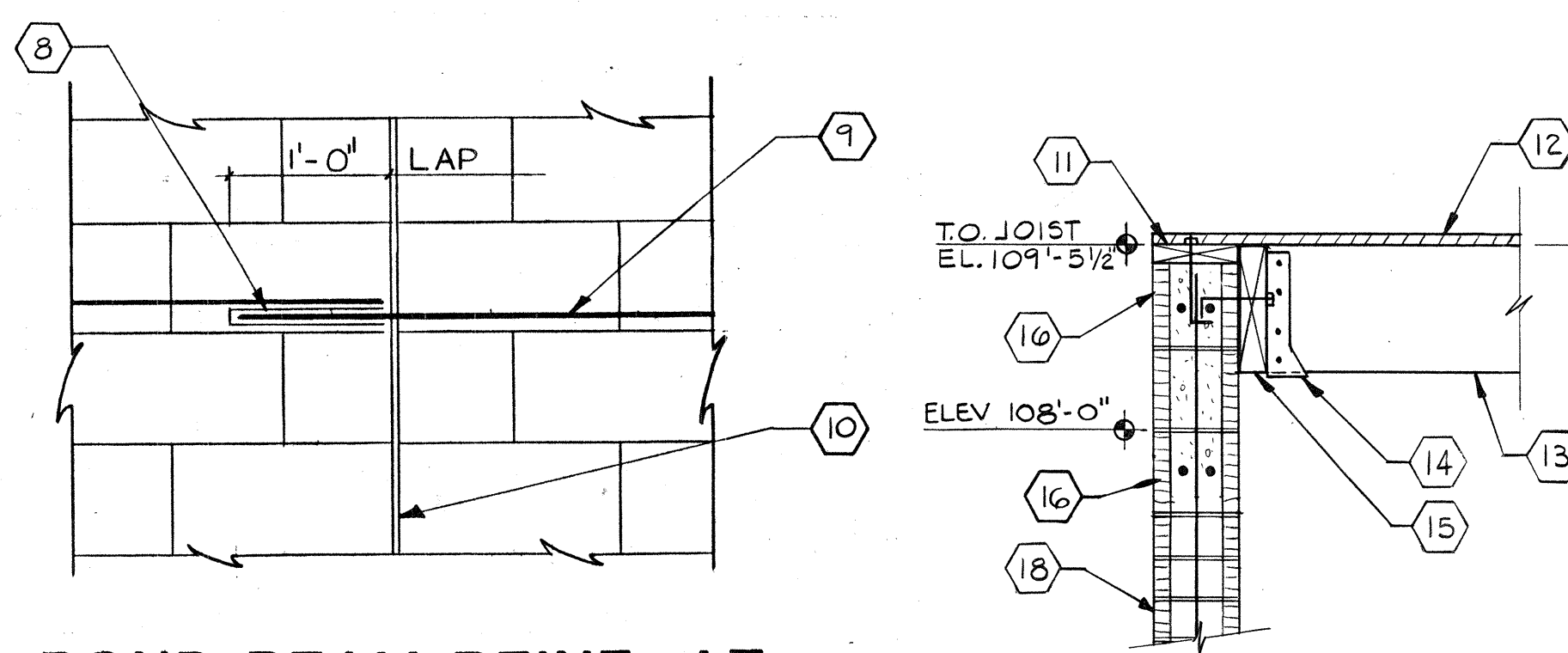


HORIZ. PLYWOOD SHEATHING

THIS NAILING IS TYPICAL UNLESS NOTED OR DETAILED OTHERWISE. ALL NAILS SHALL BE COMMON WIRE NAILS.

JOIST AT ALL BEARING - TOE NAILS EACH SIDE	2-10d
BLOCKING BETWEEN STUDS :	
TOE NAILS EACH END	2-10d
OR END NAILS	2-16d
DOUBLE TOP PLATE :	
LOWER PLATE TO TOP OF STUD	2-20d
UPPER PLATE TO LOWER PLATE	16d @ 16"
SPICE (4'-0" MIN) EACH SIDE OF BUTT IN TOP PLATE	6-16d
UPPER PLATE TO LOWER PLATE AT INTERSECTIONS	3-16d
BUILT-UP BEAMS :	
MORE THAN 10" DEEP (STAGGER)	1/2" Ø BOLTS @ 24"

NAILING SCHEDULE



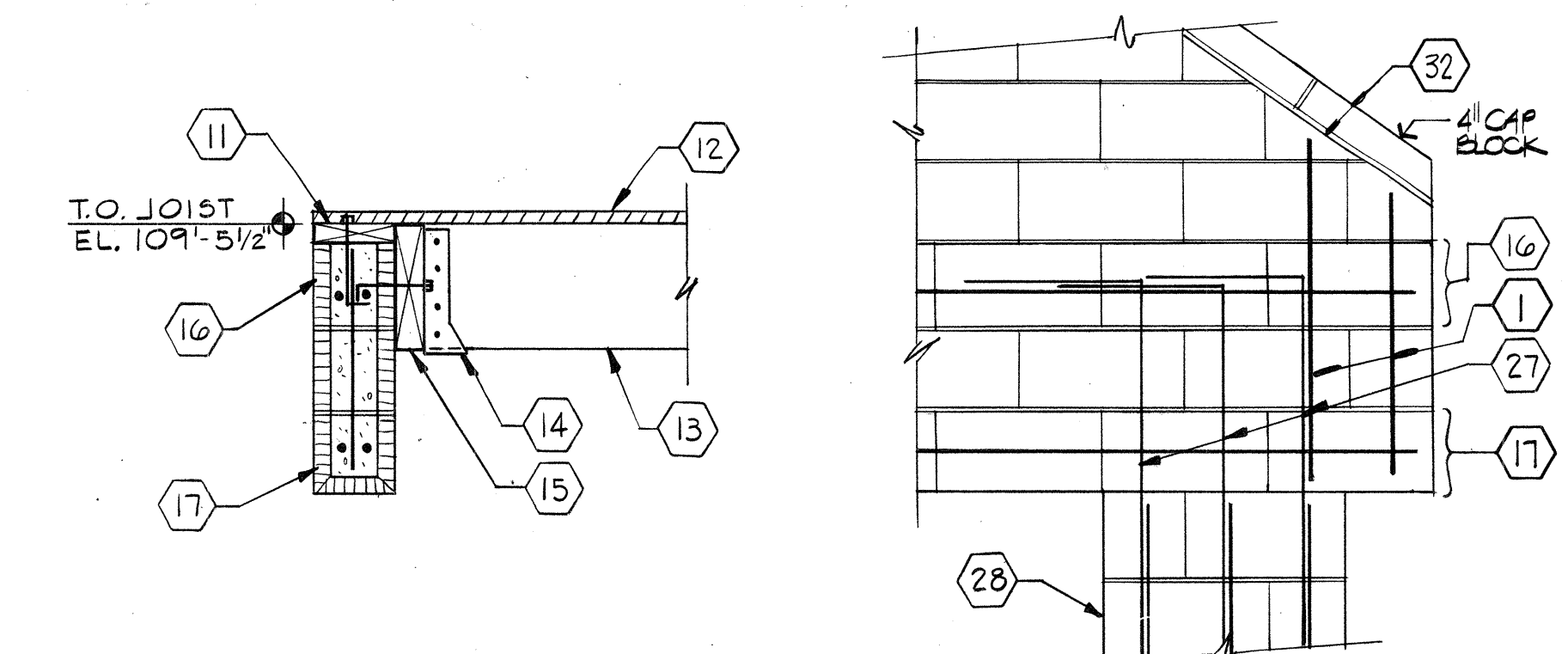
BOND BEAM REINF. AT C.M.U. CONTROL JOINT E
NO SCALE

SECTION 1
3/4" : 1'-0"

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

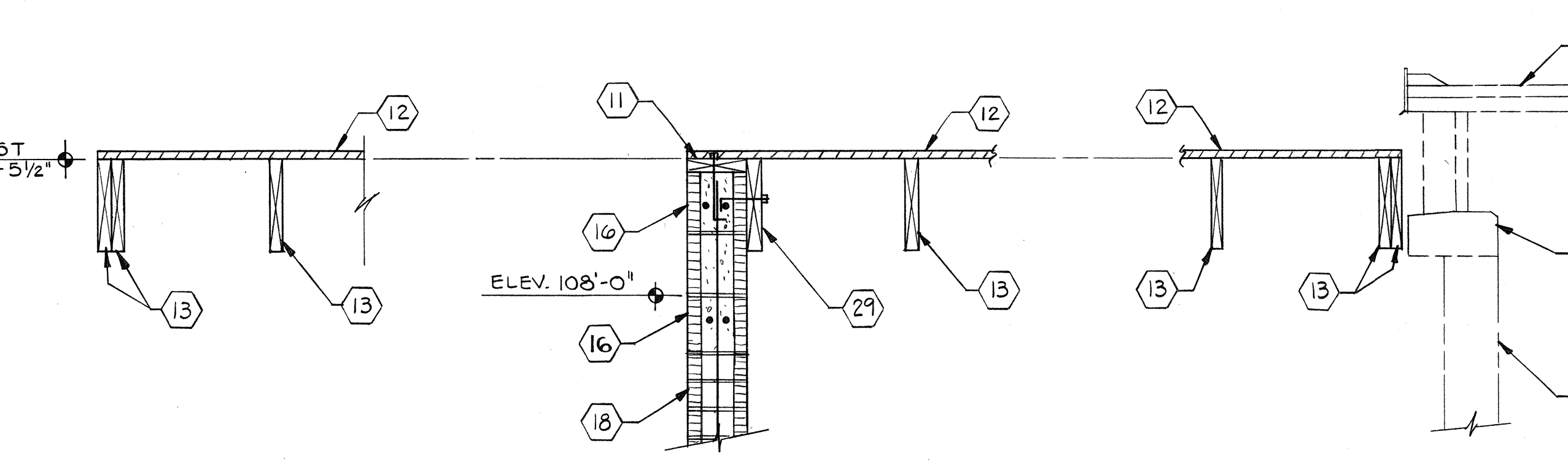
SECTION 3
3/4" : 1'-0"

SECTION 4
3/4" : 1'-0"



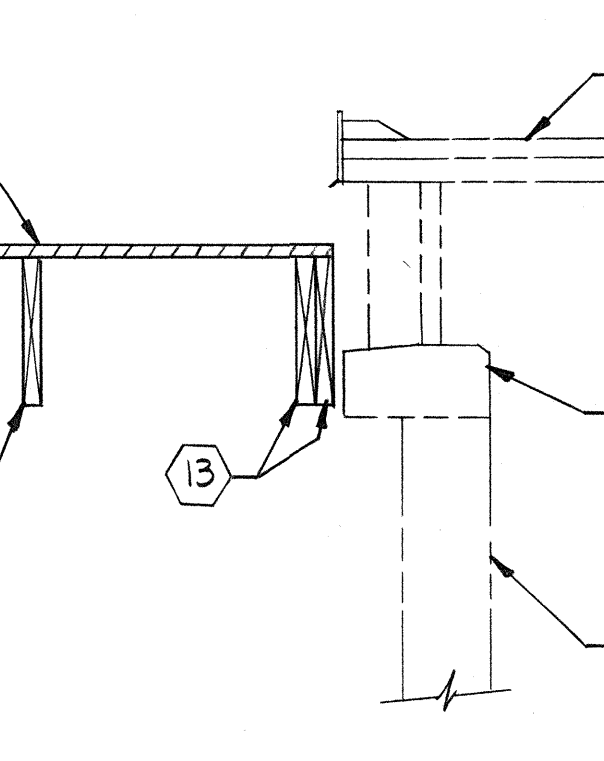
SECTION 5
3/4" : 1'-0"

SECTION 6
3/4" : 1'-0"

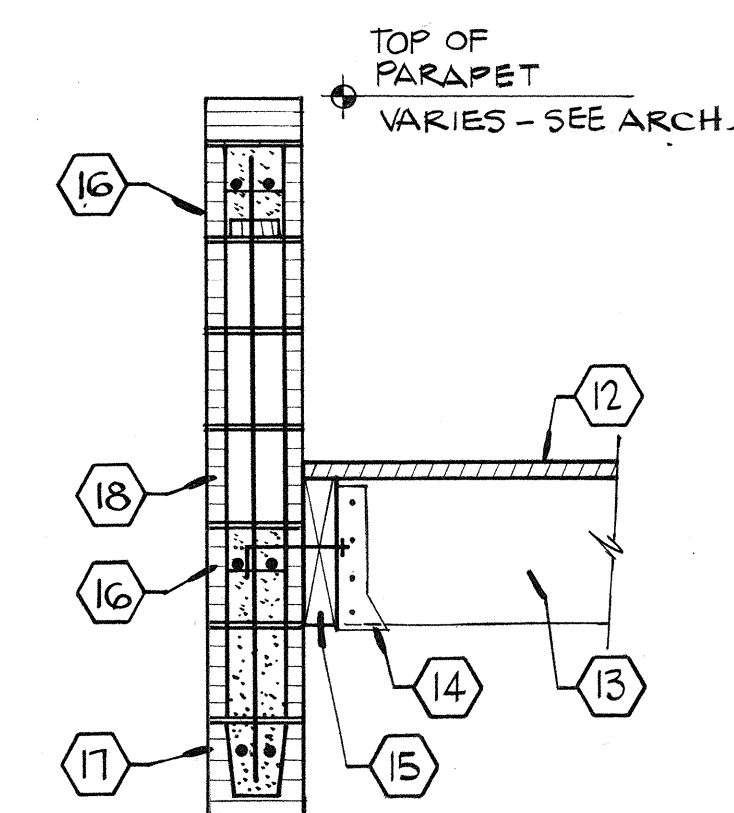


SECTION 7
3/4" : 1'-0"

SECTION 8
3/4" : 1'-0"



SECTION 9
3/4" : 1'-0"



SECTION 10
3/4" : 1'-0"

Ray Trujillo & Associates
Architecture & Planning
119 Industrial Northeast
Albuquerque, N.M. 87107
(505) 345-1440

PROJECT:
ADDITION TO
FIRE STATION NO. 4
NEW MEXICO

SHT. TITLE:
FRAMING PLAN
& DETAILS

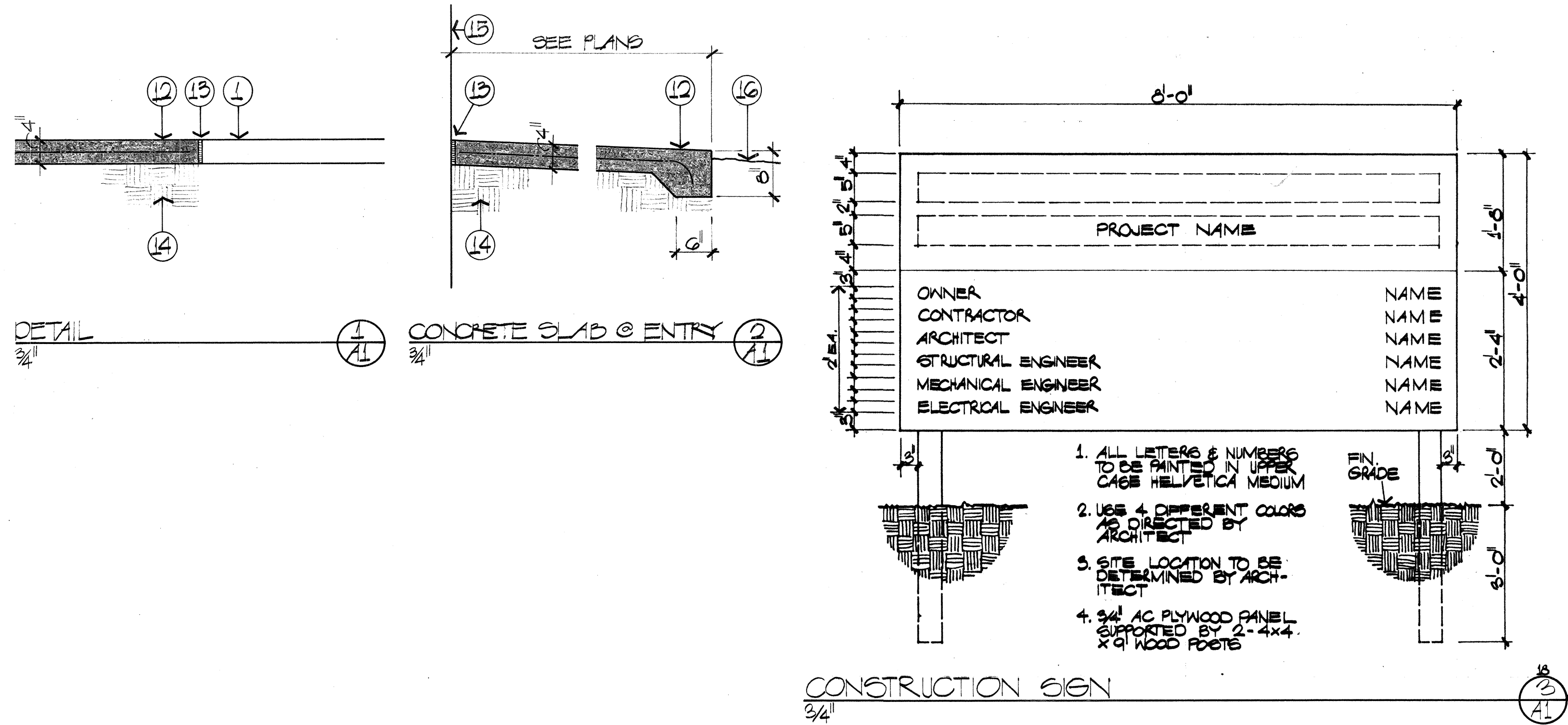
CKD:
DRWN:
RVNS:

JOB NO: 656
DATE: JUNE 85

ENCLOSURE

ARCH:

SHEET:
S2
3 OF 11



ARCHITECTURAL SYMBOLS

- 1 WALL OR BUILDING SECTION -
- 1 DETAILS OR ENLARGED PLAN
- 101 ROOM NUMBER
- 1 DOOR NUMBER
- AA DOOR TYPE
- A BATHROOM ACCESSORY
- 1 DOOR & WINDOW FRAME TYPE
- A INTERIOR ELEVATION
- A CASEWORK, SHELVING, & ACCESSORIES: STREET A-
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- EXISTING CONTOUR
- NEW CONTOUR
- FOG. FACE OF STUD
- N.I.C. NOT IN CONTRACT
- F.O.M. FACE OF MASONRY
- N.T.S. NOT TO SCALE
- R.O. ROUGH OPENING
- E.W.C. ELECTRIC WATER COOLER

SPECIFIC NOTES

1. EXISTING DRIVEWAY.
2. EXISTING ASPHALT PAD.
3. EXISTING DUMPSTER TO REMAIN.
4. RELOCATE EXISTING PARKING BUMPERS AS REQUIRED TO OBTAIN LAYOUT INDICATED.
5. EXISTING BUILDING.
6. LOCATION OF NEW GAS METER.
7. LOCATION OF EXISTING WATER METERS.
8. EXISTING FLAGPOLE TO REMAIN.
9. REMOVE EXISTING CONCRETE STOOPS AND ASPHALT PAVING IN AREAS OF NEW CONSTRUCTION.
10. NEW ENTRY SLAB SHALL SLOPE AWAY FROM DOORWAY. SLOPE SHALL MATCH THAT OF EXISTING DRIVEWAY.
11. PROVIDE 1/2" EXPANSION JOINTS IN SLAB AS SHOWN.
12. 4" THICK CONCRETE SLAB WITH 6x6 10/10 W.W.F.
13. 1/2" EXPANSION JOINT.
14. COMPACTED SUBGRADE.
15. FACE OF NEW ADDITION.
16. FINISH GRADE.
17. PROVIDE NEW GRAVEL SURFACING AS REQUIRED AROUND BUILDING.
18. SEE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED OR RELOCATED.
19. EXISTING GRAVEL TO BE PULLED BACK AS REQUIRED FOR CONSTRUCTION OF ADDITION. AFTER CONSTRUCTION IS COMPLETE SMOOTH OUT GRAVEL BACK TO FACE OF NEW ADDITION.

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PROJECT:
ADDITION TO
FIRE STATION NO. 4
ALBUQUERQUE NEW MEXICO

SHEET TITLE:
SITE PLAN
& DETAILS

CKD: GY
DRWN: GY
RVNS:
ENCR:

JOB NO: 888
DATE: JUNE '88

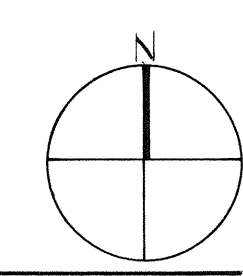
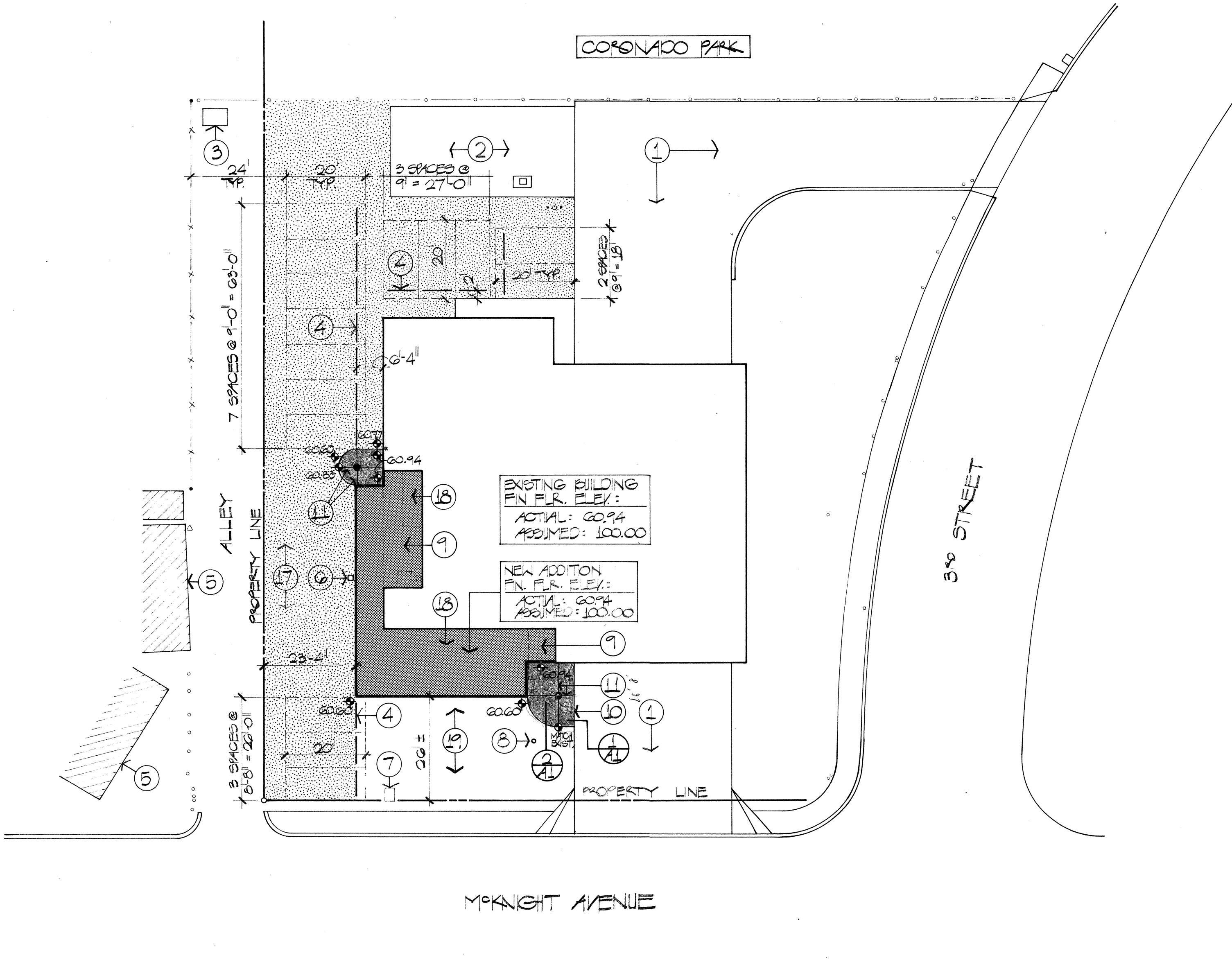
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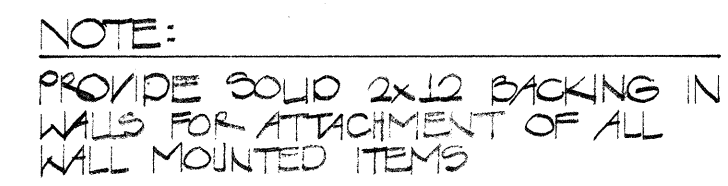
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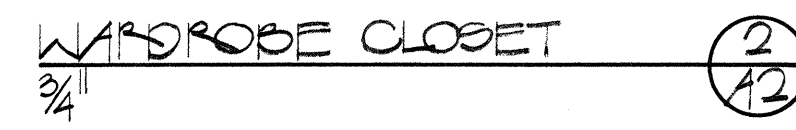
SHEET:
A1
4 OF 11

SITE PLAN
1"=20'

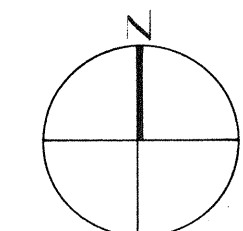




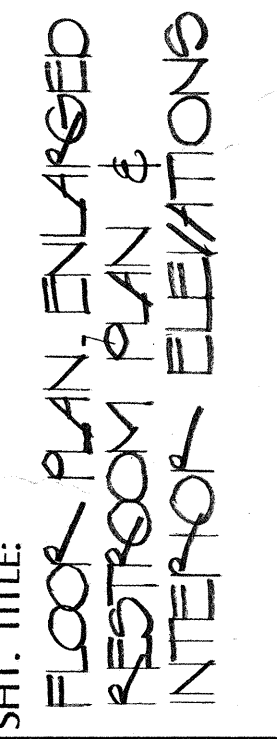
WARDROBE CLOSET



- PROJECT:
ADDITION TO
FIRE STATION NO. 4

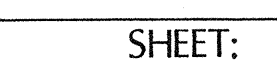


PAINT OR TEXTURE COATING
SEE EXTERIOR ELEVATIONS -

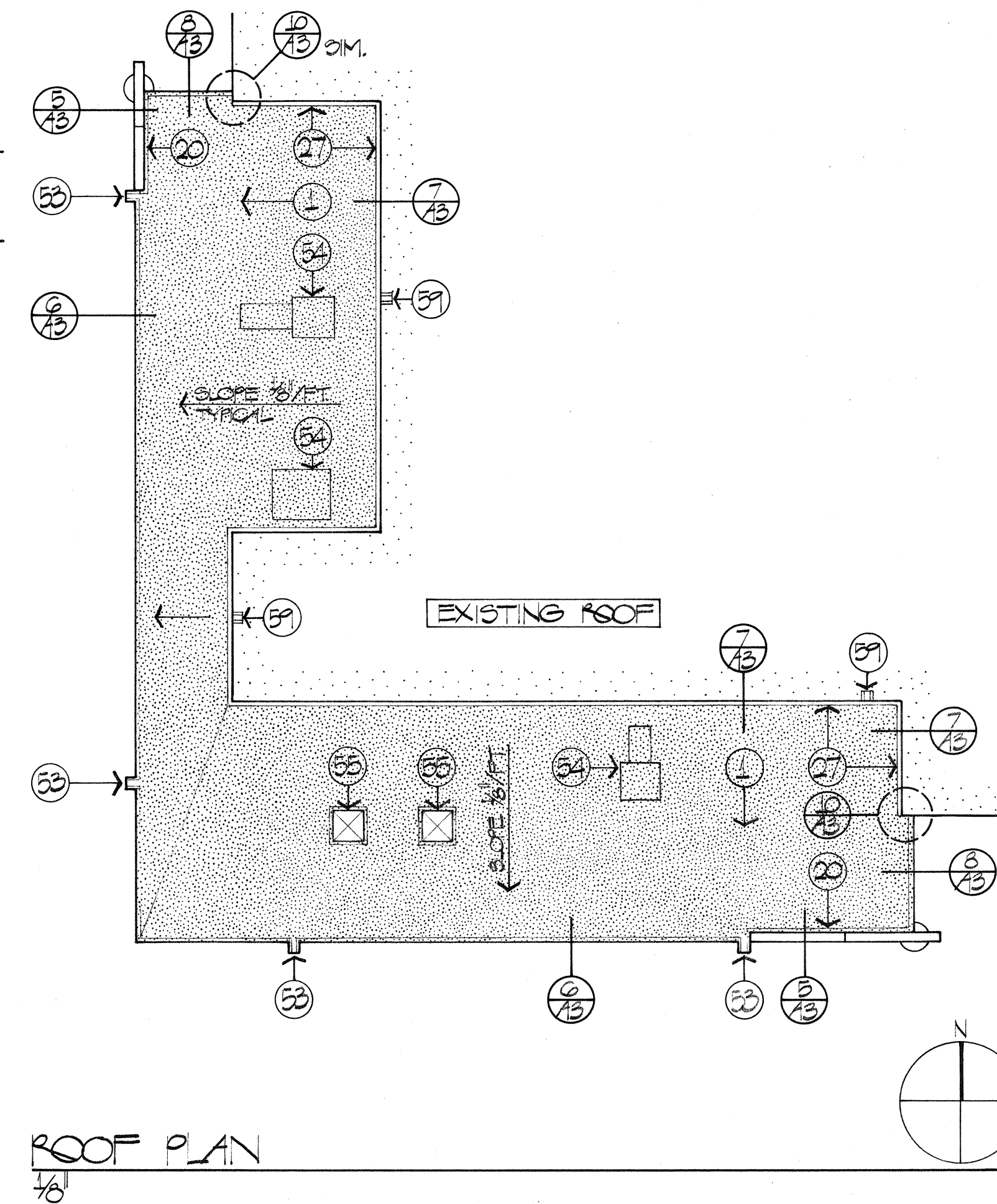
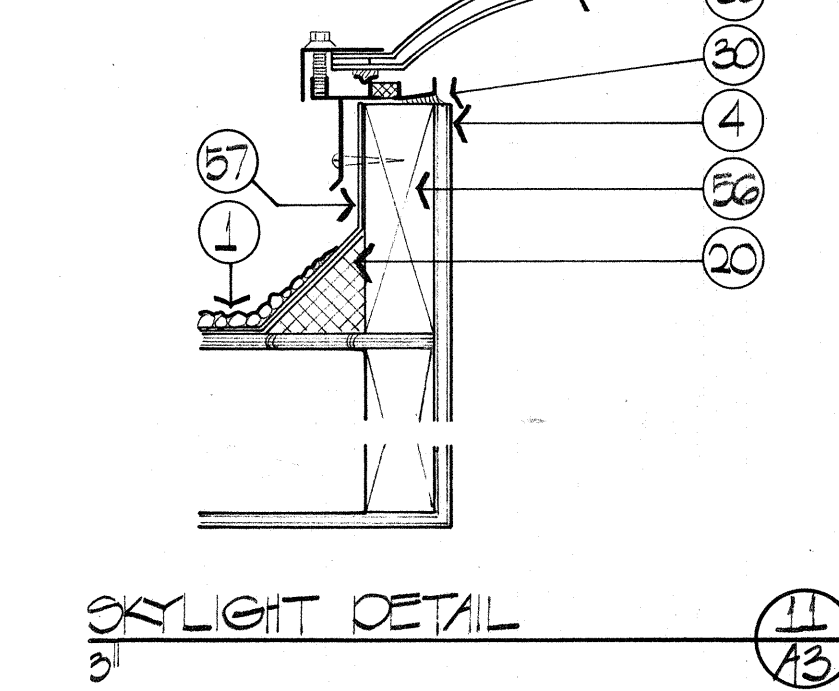
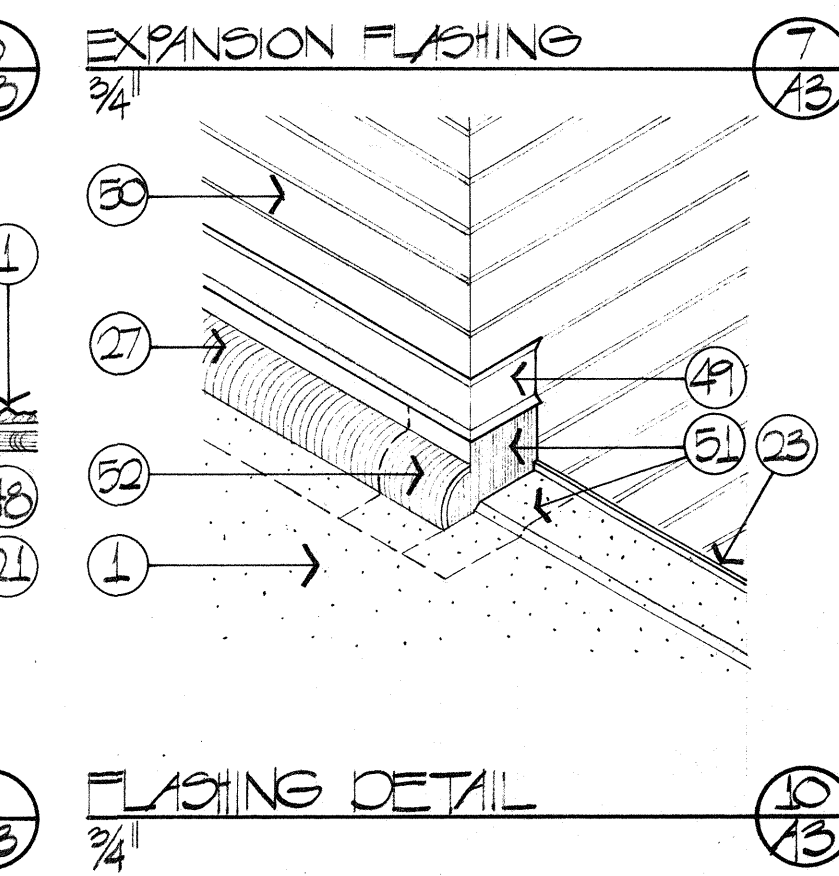
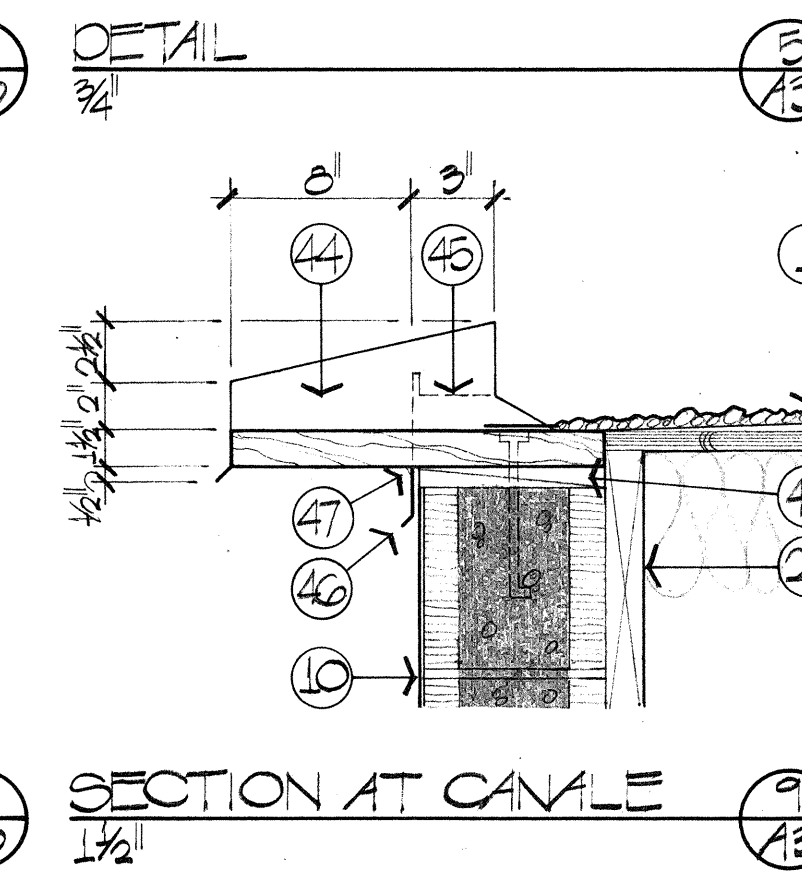
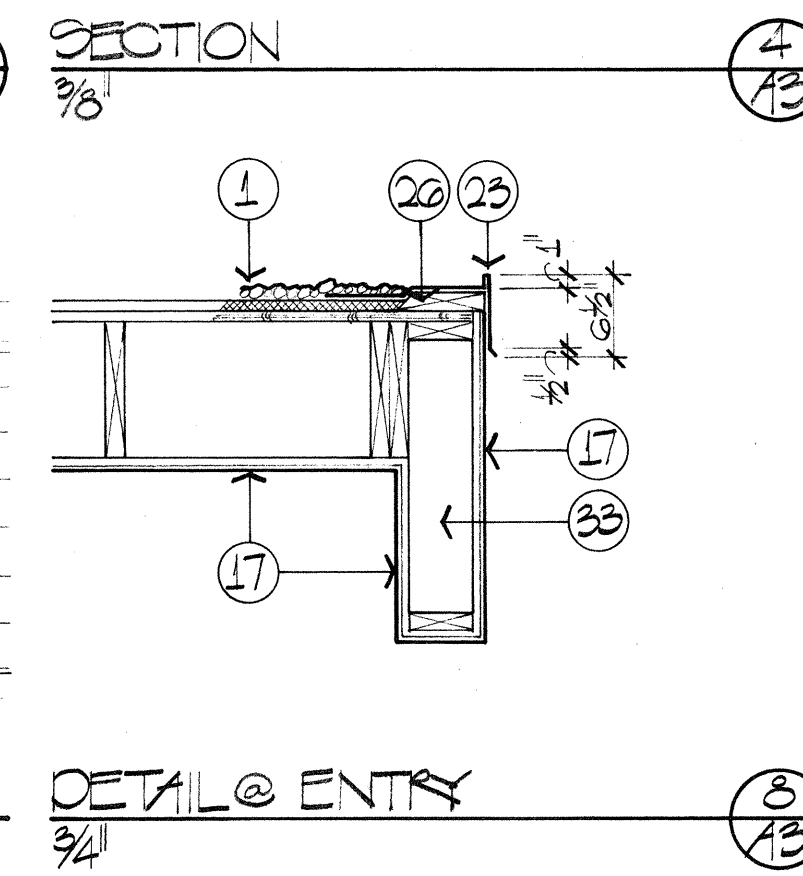
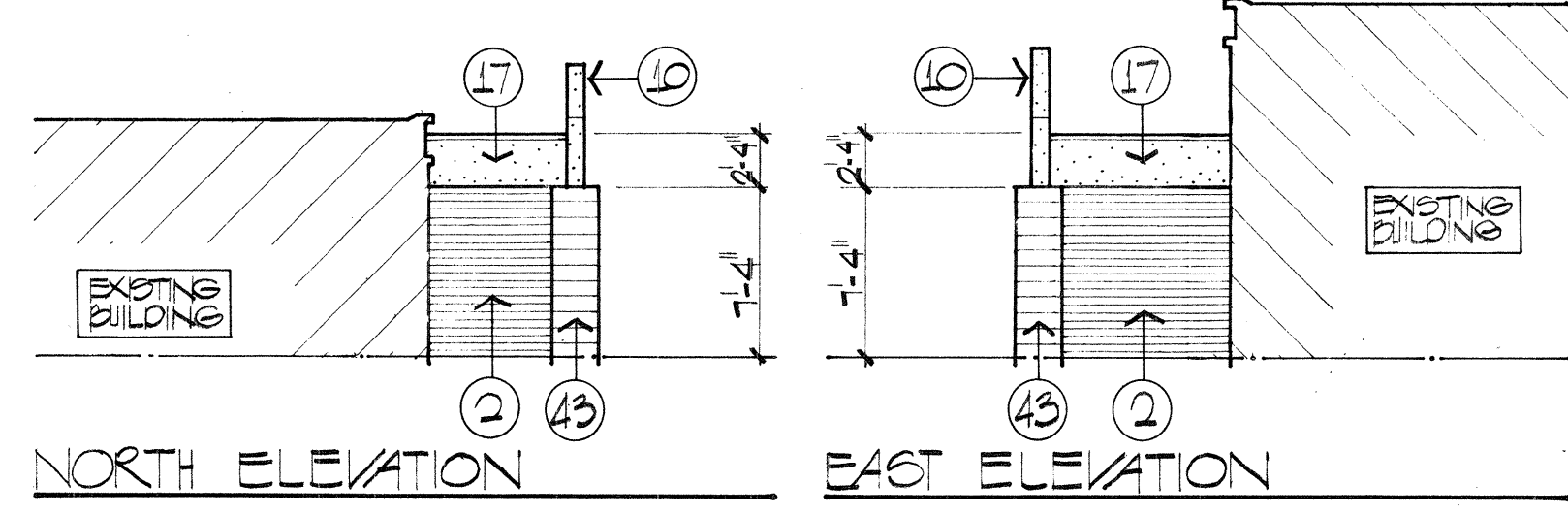
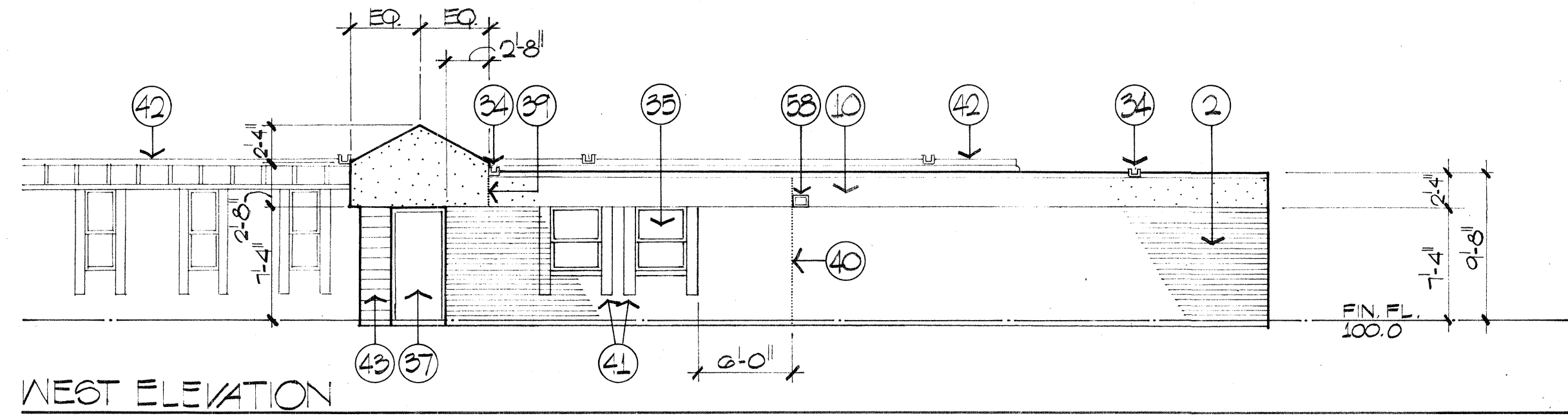
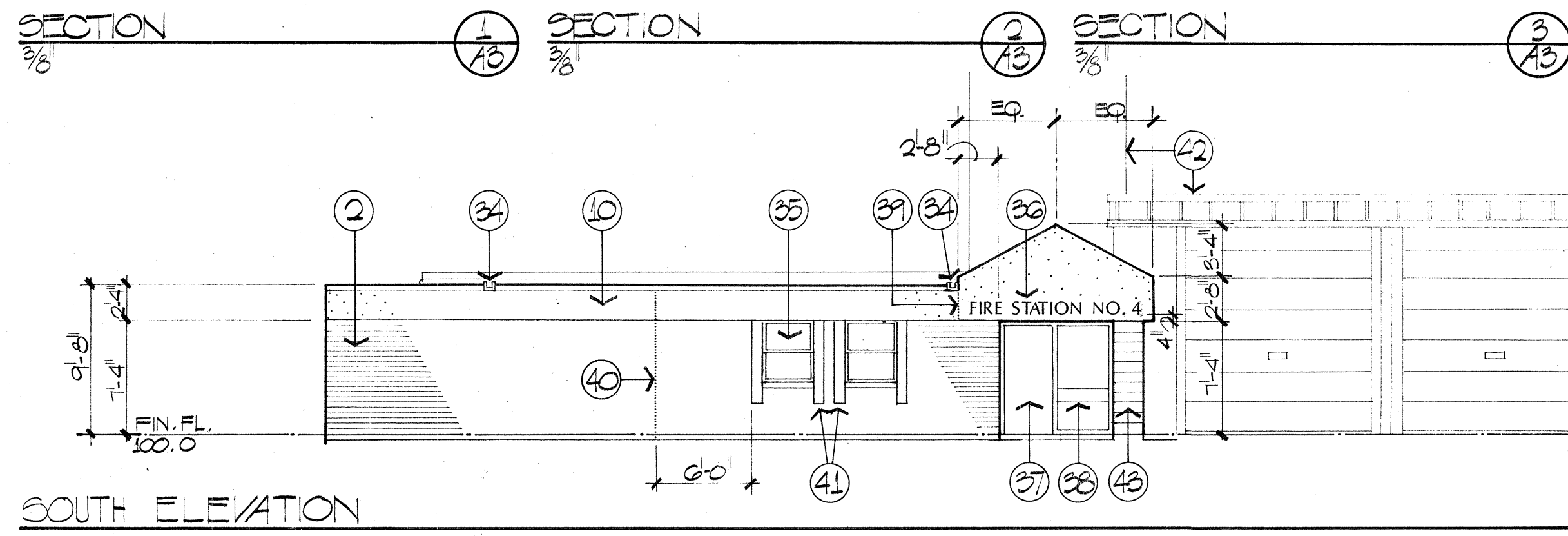
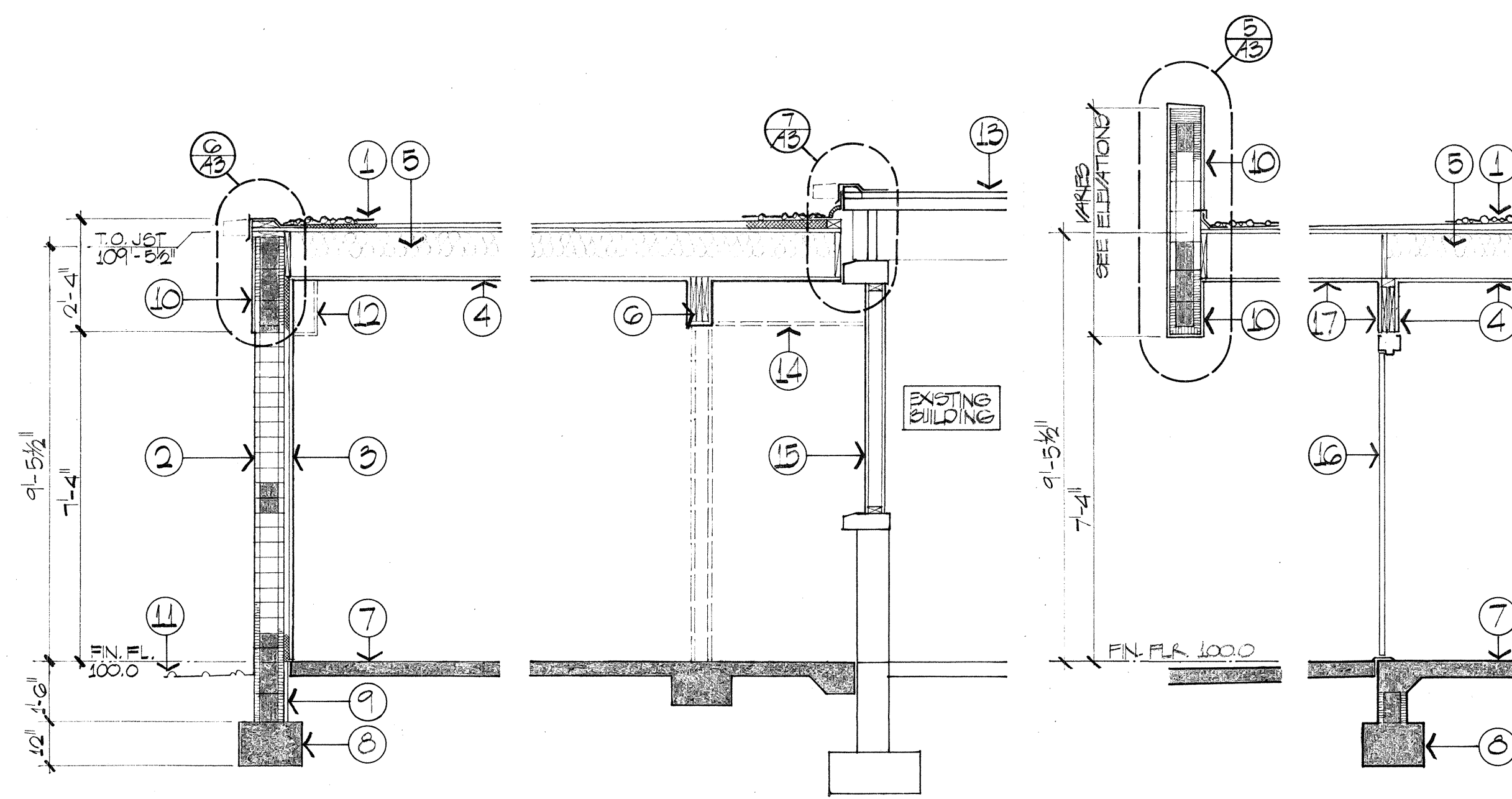


KVNS:

ENGR:



5 OF 11



- ### SPECIFIC NOTES
- BUILT-UP ROOFING OVER TAPERED ROOF INSULATION OVER 3/4" PLYWOOD DECK OVER 2x12 ROOF JOISTS AT 24" O.C.
 - 8x4x16 CMU, PAINTED
 - 5/8" GYPSUM BOARD OVER 2" RIGID INSULATION.
 - 5/8" GYPSUM BOARD
 - 6" BATT INSULATION
 - WOOD BEAM, SEE STRUCTURAL.
 - NEW CONCRETE SLAB
 - CONCRETE FOOTING, SEE STRUCTURAL
 - 3/4" PERIMETER INSULATION
 - TEXTURE COATING OVER 8x8x16 CMU
 - FINISH GRADE
 - FURRED-OUT AREA IN ROOM 111. SEE DETAIL 10/A4.
 - EXISTING ROOF
 - FURR-DOWN CEILING IN CORRIDOR.
 - REMOVE EXISTING WINDOW. INFILL OPENING WITH 2x4 WOOD STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD EACH SIDE.
 - HOLLOW METAL DOOR AND FRAME.
 - TEXTURE COATING OVER 1/2" GYPSUM SHEATHING.
 - CONTINUOUS CAP BLOCK AT SLOPED PARAPETS.
 - 26 GA. GALVANIZED SHEET METAL COUNTERFLASHING.
 - 3" CANT STRIP
 - 2x12 LEDGER, SEE STRUCTURAL DWGS.
 - LINE OF TEXTURE COATING ON MASONRY WALLS BEYOND AS THEY OCCUR AT ENTRIES.
 - 26 GA. GALV. SHEET METAL FLASHING. EXTEND A MINIMUM OF 6" BELOW BUILT-UP ROOFING.
 - CONTINUOUS 2x NAILER.
 - 2x NAILER
 - 2x6 WITH BEVELED EDGE.
 - BELLOWS TYPE EXPANSION FLASHING.
 - NEW 26 GA. SHEET METAL FLASHING TO BE INSTALLED OVER BELLOWS FLASHING AND EXISTING FASCIA. EXTEND A MINIMUM OF 6" ONTO EXISTING ROOF.
 - REROOF EXISTING ROOF AS REQUIRED TO INSTALL NEW FLASHING OVER EXISTING FLASHING.
 - CAULK
 - WOOD NAILER
 - 2x12 BLOCKING
 - 2x6 WOOD STUDS AT 16" O.C. ATTACHED TO ROOF JOISTS.
 - CANALE TO MATCH EXISTING CANALES. SEE DETAIL 9/A3.
 - SINGLE-HUNG ALUMINUM FRAME WINDOWS TYPICAL.
 - 8" HIGH OPTIMA STYLE METAL LETTERS CENTERED OVER ENTRY AS SHOWN.
 - HOLLOW METAL DOOR AND FRAME
 - LOCATION OF OAK GUARDRAIL ON INSIDE OF GLASS & FRAME. SEE DETAILS
 - 1/4" WIDE JOINT IN TEXTURED COATING
 - MASONRY CONTROL JOINT. SEE DETAIL D/S2. CONTROL JOINT TO BE CONTINUOUS, STOP TEXTURED COATING AT EACH SIDE OF JOINT.
 - MASONRY WINGWALLS TO STEP BACK INTO WALL TO MATCH WINGWALLS OF EXISTING BUILDING.
 - EXISTING BUILDING.
 - 2" DIA MASONRY COLUMN CONSTRUCTED FROM STANDARD 8" HIGH RADIUS BLOCK. ALL VERTICAL JOINTS TO BE FLUSH JOINTS. ALL HORIZONTAL JOINTS TO BE RAKED 1/2" DEEP.
 - CANALE TO MATCH EXISTING TO BE CONSTRUCTED OF SOLID 2x REDWOOD AND COMPLETELY CLAD IN 26 GA SHEET METAL. CONTINUOUSLY SOLDIER ALL JOINTS. SECURE CANALE TO MASONRY WALL WITH 1/2" DIA BY 8" ANCHOR BOLTS. CANALE SHALL BE 8" WIDE OUTSIDE DIMENSION.
 - LINE OF FASCIA BEYOND
 - SHEET METAL FASCIA TO BE CONTINUOUS UNDER CANALE.
 - CAULK ALL JOINTS BETWEEN CANALE AND FASCIA.
 - 1x WOOD BLOCKING.
 - 26 GA. GALV. SHEET METAL COUNTERFLASHING AT EXISTING MASONRY WALLS AS THEY OCCUR.
 - EXISTING MASONRY WALL.
 - CUSTOM 26 GA. GALV. SHEET METAL END PIECE TO EXTEND A MINIMUM OF 6" UNDER BELLOWS EXPANSION FLASHING. FLASHING SHALL ALSO EXTEND A MINIMUM OF 4" UNDER GRAVEL STOP AS SHOWN. SOLDER ALL JOINTS. PAINT TO MATCH COLOR OF MASONRY.
 - ADHESIVELY ATTACH RUBBER PORTION OF BELLOWS FLASHING TO CUSTOM SHEET METAL END.
 - CANALE WITH SPLASH BLOCK BELOW.
 - SEE DETAIL 9/A3
 - MECH. UNIT. SEE MECH. DRAWINGS.
 - 2" SQUARE DOUBLE-DOME SKYLIGHT. SEE DETAIL 11/A3.
 - 2x8 WOOD CURB.
 - CAP FLASHING.
 - LIGHT FIXTURE. SEE ELECTRICAL.
 - EXISTING CANALE TO REMAIN.

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PROJECT: ADDITION TO FIRE STATION NO. 4

SHT. TITLE: BUILDING SECTIONS, EXTERIOR ELEVATIONS & DETAILS

DRWN: CKD	BY: SAT	JOB NO: 658
DATE: JUNE 88		

ARCH: RAY TRUJILLO
STATE OF NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 8654

SHEET: A3

6 OF 11

ROOM FINISH SCHEDULE

bldg.	room number	room name	floor		base		walls		ceiling		paint	ceiling height	remarks
			VINYL ASBESTOS TILE 2x2" INCLUDED	CEMENT SEALANT EXPOSED CONC.	4" VINYL COVER BASE 5" CERAMIC BASE (2x2)	PAINTED GYR BOARD 4x4 CERAMIC TILE EXPOSED EXIST. BLOCK CLEANED AND PAINTED	PAINTED GYR BOARD 4x4 CERAMIC TILE	PAINTED GYR BOARD 4x4 CERAMIC TILE	PAINTED GYR BOARD 4x4 CERAMIC TILE	ALL PAINT TO BE SEMI-GLOSS ENAMEL UNLESS OTHERWISE SHOWN			
	101	ENTRY										8'-5 1/2"	
	102	CORRIDOR										7'-4"	
	103	BUNK ROOM										8'-5 1/2"	
	104	BUNK ROOM										8'-5 1/2"	
	105	BATH								EPOXY		8'-5 1/2"	FINISH DOWN CLOS. AT TUB ENCLOSURE
	106	BATH								EPOXY		8'-5 1/2"	AS REQUIRED FOR TUB, E
	107	SIJANA										7'-0"	TAPE, NO TEXTURE OR PAINT
	108	MECH.										8'-5 1/2"	
	109	CLOSET										8'-5 1/2"	
	110	CORRIDOR										7'-4"	
	111	WEIGHT ROOM										8'-5 1/2"	
	112	VESTIBULE										8'-5 1/2"	

DOOR SCHEDULE

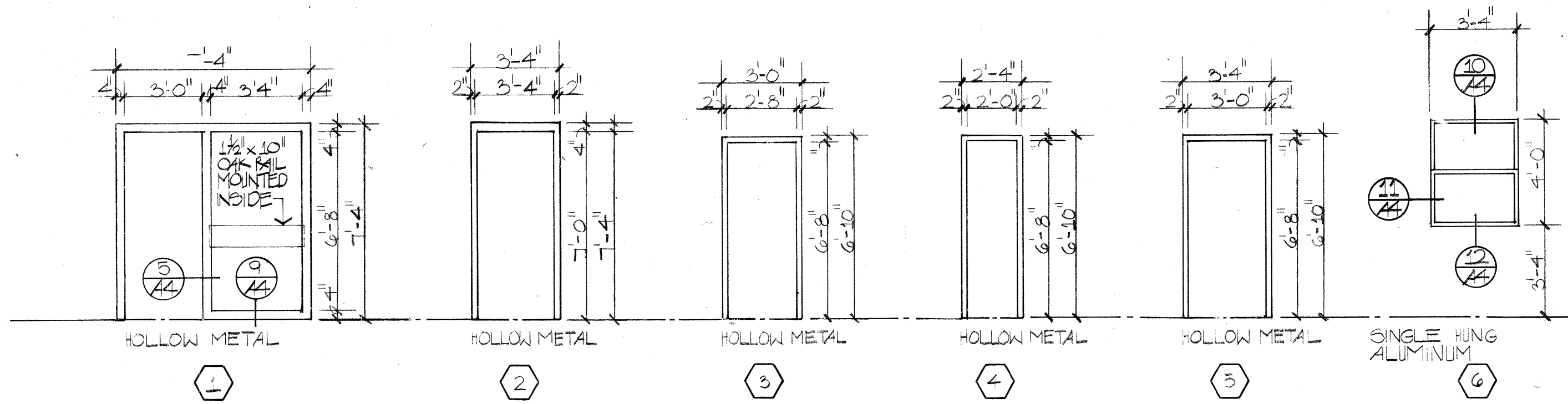
bldg.	door no.	door						frame				fire rating	hardware		remarks	
		size			type	glass	name plate		type	detail			set no.	keyside room no.		
		w	h	t			no.	name		head	jamb					sill
	1	3'-0"	7'-0"	1 3/4"	AA				1	7	3/8	6			EXTERIOR	INSULATED
	2	2'-8"	6'-8"	1 3/4"	BB				3	1	2	-				
	3	2'-8"	6'-8"	1 3/4"	BB				3	1	2	-				
	4	2'-8"	6'-8"	1 3/4"	BB				3	1	2	-				
	5	2'-8"	6'-8"	1 3/4"	BB				3	1	2	-				
	6	-	-	-	-				-	-	-	-				PRE HUNG DOOR WITH SIAN/A PACKAGE. PROVIDE 26" R.O.
	7	2'-0"	6'-8"	1 3/4"	BB				4	1	2	-				
	8	2'-0"	6'-8"	1 3/4"	BB				4	1	2	-				
	9	3'-0"	6'-8"	1 3/4"	BB				5	1	2	-				
	10	3'-0"	7'-0"	1 3/4"	BB				2	7	3/8	6			EXTERIOR	INSULATED

DETAIL NOS
SHOWN
ON THIS SHEET

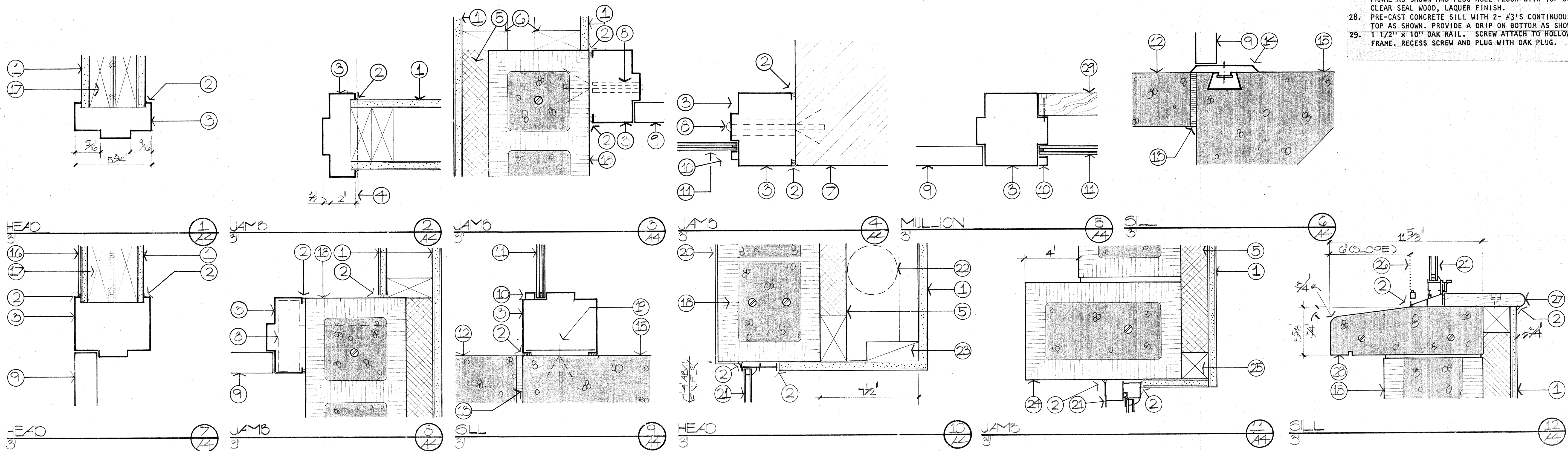
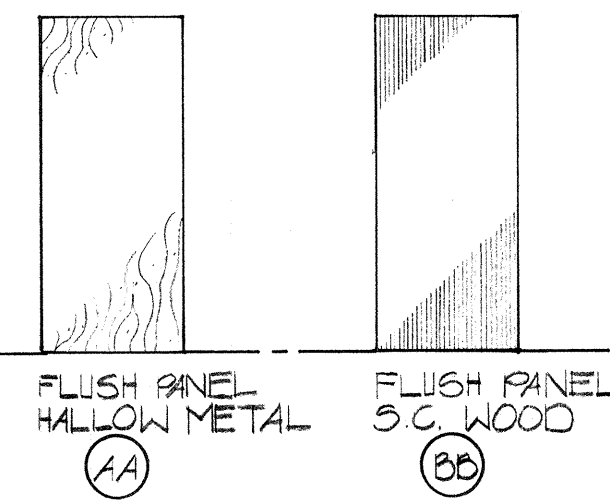
SPECIFIC NOTES

- 5/8" GYPSUM BOARD.
- CAULK, TYPICAL.
- HOLLOW METAL FRAME.
- LINE OF ALTERNATE LOCATION OF WALL.
- 2" POLYSTYRENE INSULATION SYSTEM. SEE SPECIFICATIONS
- 2x4 WOOD STUD FRAMING.
- EXISTING MASONRY WALL.
- HOLLOW METAL FRAME ANCHOR.
- HOLLOW METAL DOOR.
- GLASS STOP.
- 5/8" INSULATING GLASS.
- EXTERIOR CONCRETE SLAB.
- 1/2" EXPANSION JOINT MATERIAL.
- METAL THRESHOLD ANCHORED TO SLAB AS SHOWN.
- INTERIOR CONCRETE SLAB.
- TEXTURE COATING OVER 1/2" GYPSUM SHEATHING.
- WOOD FRAME HEADER. SEE STRUCTURAL FOR REINFORCING.
- NEW MASONRY WALL. SEE STRUCTURAL FOR REINFORCING.
- ANCHOR FRAME TO SLAB.
- TEXTURE COATING OVER MASONRY WALL.
- SINGLE HUNG ALUMINUM FRAME WINDOW WITH INSULATING GLASS.
- INSULATED WATER LINES TO BE STACKED AND RUN INSIDE RIGID INSULATION.
- 2x WOOD FRAME FURR-DOWN.
- BLOCK WING TO STEP BACK INTO BUILDING TO MATCH EXISTING WINGWALLS AT EXISTING WINDOWS.
- 2" THICK WOOD FRAMING.
- REMOVABLE SCREEN.
- 3/4" THICK RED OAK SILL WITH RADIUS NOSE SCREW TO WOOD FRAME AS SHOWN AND PLUG HOLE FLUSH WITH TOP OF SILL. CLEAR SEAL WOOD, LAQUER FINISH.
- PRE-CAST CONCRETE SILL WITH 2- #3'S CONTINUOUS. SLOPE TOP AS SHOWN. PROVIDE A DRIP ON BOTTOM AS SHOWN.
- 1 1/2" x 10" OAK RAIL. SCREW ATTACH TO HOLLOW METAL FRAME. RECESS SCREW AND PLUG WITH OAK PLUG.

FRAME TYPES



DOOR TYPES



MECHANICAL EQUIPMENT SCHEDULE									
SYMBOL		DESCRIPTION							
(CH)		CABINET HEATER : Heating only, complete package unit with fans, hot water coil, filters, unit-mounted speed control switch, disconnect switch, exposed baked enamel finished cabinet. Hinged bottom access door, integral front discharge grille, bottom integral inlet grille. discharge. Coil capacity based on 160-deg.F EWT, 20-deg.F drop, 60-deg.F EAT. Motors to be 115v-1ph. Nos. are TRANE.							
SYMBOL		MODEL	CFM @ " ESP	HTG BTUH	GPM	HP	ARRNGMENT		
(CH)		D-06	530 @ .10	32,215	3.5	1/20	D16		
(FR)		FINNED RADIATION: Complete package assembly, with 16 gauge (minimum) steel cabinet, sloping top, factory color (as directed by Architect), access doors both ends of each cabinet located below coil, continuous manual damper, finned element with copper tube aluminum fins. See details on drawings. Capacities based on natural convection with 180-deg.F EWT, 60-deg.F EAT, 20-deg.F WTD, 150 psig duty. TRANE Model S. Furnish all end panels, brackets, extension sections, etc.							
SYMBOL		ROWS	HEIGHT	DEPTH	BTUH CAPACITY PER LIN. FOOT				
(FR)		1	16"	6"	1,250				
(CEF)		CEILING EXHAUST FANS: Steel cabinet with acoustical lining, centrifugal fan wheel, complete with inlet grille, discharge collar, anti-backdraft damper, resilient motor mounting, AMCA rated. Nos. are GREENHECK, 115v-1ph.							
SYMBOL		MODEL	CFM @ " SP	HP	LOCATION				
(CEF)		SP-25	160 @ .25	1/40	Rest Rooms				
(EF)		EXHAUST FANS: Weatherproof unit for rooftop curb installation. Aluminum construction, low profile design, with factory prime coat for field painting. Furnish with anti-backdraft damper, unit mounted fused disconnect, and birdscreen. Units shall be AMCA certified, and shall have ball bearing NEMA motors, adjustable V-belt drives, hinged hoods for easy access to fans and motors. Nos. are ACME PL or approved equal. Furnish with 2-speed wall switch (HI-OFF-LO).							
SYMBOL		MODEL	CFM	SP " WG	MOTOR HP	VOLTAGE	T.F. SPD MAX	(APPROX.) RPM	
(EF)		PL200E	1400 (Hi-Spd.)	.25	1/4 (2-speed)	115v-1ph-60cy	2775 fpm	530	
(EC-1)		EVAPORATIVE COOLERS: Side discharge, drip type units, 18 gauge construction with under-coated reservoir and blower housing, for rooftop installation. Complete package weather-proof unit, with float valve, pump, pads, bleed off control, overflow and drain fittings. Furnish extra set of pads and 20 gauge galvanized winter pad closure plates. Pumps shall be 115v-1ph. Furnish separate pump and fan switches. ARVIN or equal.							
&									
(EC-2)									
SYMBOL		MODEL	CFM (HI-SPEED)	SP " WG	MOTOR HP	VOLTAGE	LOCATION		
(EC-1)		E 330B	1500	.4"	1/3	115v-1ph-60cy	Weight Rm.		
(EC-2)		E 330B	1000	.5"	1/3	115v-1ph-60cy	Bunk Rms.		
(RC-1)		RECESSED CONVECTOR: TRANE type 490L, recessed wall convector, 14 ga. steel construction cabinet, color of complete assembly as selected by Architect. Heating capacity based on 160-deg.F EWT, 20-deg.F temperature drop and 65-deg.F EAT, 2.0 ft. maximum pressure drop. Furnish full length damper (with control linkage) and all required wall fasteners and brackets.							
&									
(RC-2)									
SYMBOL		MODEL	BTUH CAPACITY	CABINET LENGTH/HEIGHT/DEPTH		GPM	LOCATION		
(RC-1)		RG-490L	3,000	38	24 4	.4	Rest Rooms		
(RC-2)		SG-490L	5,300	38	26 6	.6	Corridor		

GRILLE & REGISTER SCHEDULE									
(D-1)		DIFFUSER: ANEMOSTAT Model E-1 for hard ceiling, 210-deg.F fire damper when installed in a fire-rated ceiling, OBD, steel construction, enamel off-white finish, provide volume damper in neck of diffusers.							
(SR)		SIDEWALL SUPPLY REGISTER: KRUEGER 895V, flanged frame, steel construction, with vertical front blades, adjustable, and horizontal rear adjustable blades. Furnish with OBD and 210-deg.F fire damper when installed in a fire rated wall, deflection vanes on 1/2" centers.							
(ER)		EXHAUST REGISTER: KRUEGER EGC-5, 1/2" core spacing, aluminum construction, eggcrate pattern, OBD, flanged frame, suitable for installation in a fixed type ceiling installation.							
FD		FIRE DAMPER: CESCO or PHILIPS INDUSTRIES INC. (TITUS PRODUCTS DIVISION) "Slam Shut" type, U.L. Listed, or approved equal. 210-deg.F rating at supply duct and 160-deg. F rating at return duct or return opening or at exhaust duct. Coordinate to fit diffusers, grilles, duct sizes, etc.							
		NOTE: Provide FDs in all supply registers, diffusers and exhaust grilles unless walls and/or ceilings have been defined as non-fire rated by Architect and City Inspectors; verify.							

GRILLE & REGISTER SCHEDULE	
(D-1)	DIFFUSER: ANEMOSTAT Model E-1 for hard ceiling, 210-deg.F fire damper when installed in a fire-rated ceiling, OBD, steel construction, enamel off-white finish, provide volume damper in neck of diffusers.
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	NOTE: Provide FDs in all supply registers, diffusers and exhaust grilles unless walls and/or ceilings have been defined as non-fire rated by Architect and City Inspector; verify.

SECTION A
NOT TO SCALE

FR FINNED RADIATION PIPING SCHEMATIC
NOT TO SCALE

CABINET HEATER DETAIL
NOT TO SCALE

CONVECTOR DETAIL (TYP.)
NOT TO SCALE

MECHANICAL FLOOR PLAN - ADDITION
SCALE: 1/8" = 1'-0"

"TIE-IN" LOCATIONS SCHEMATIC
NOT TO SCALE

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

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

TYP. RADIATOR / CONVECTOR CONTROLS
NOT TO SCALE

GENERAL NOTES:

- Provide access doors in fixed ceilings, chases and ductwork to all fire dampers, balancing dampers or other mechanical devices needing service access.
- All fire dampers shall be installed in a U.L. approved manner and shall be U.L. listed.
- All hot water branch lines off mains shall be made with a swing joint.
- B.D. = Manual Balancing Damper.
- A.D. = Access Door.
- F.D. = Fire Damper.

KEYED NOTES:

- New 1-1/4" HWS and HWR sleeve through existing CMU wall, up 7'-8" above finish floor, turn 90-deg. to above lay-in ceiling in Kitchen, and turn 90-deg. up between concrete tees. See schematic (this sheet) for "tie-in" locations in existing Mechanical Room. Manual A.V. @ "High Point", HWS & HWR.
- New 1-1/4" HWS and HWR drop and turn 90-deg. tight against bottom of concrete tees.
- New 1-1/4" HWS and HWR pipes rise between tees, sleeve through existing concrete filler wall, and into new ceiling space (penetrate wall between new 2 x 12 joists).
- Pipes shall be free to expand. Do not anchor to structure, provide hangers 4'-0" (approx).
- Surface mounted cabinet heater with hinged access door. See Detail this sheet for piping and notes.
- 18" x 18" supply air duct up thru curbed opening integral with roof system (sealed to be watertight). See Section (A) on this sheet.
- Outline of evaporative cooler on skids, on roof. See Section (A) on this sheet.
- Outline of curb-mounted exhaust fan on roof. See Standard Detail in Specifications.
- 18" x 18" exhaust duct up thru roof to curb, 18" x 10" above clg. (between joists).
- Exhaust fan speed selector switch (HI-OFF-LOW). (Label switch)
- 3/4" HWS and HWR (future connections) with globe valves and caps. Provide 12"x12" access door in ceiling below valves and caps.
- Coordinate to provide framed opening for recessed wall convector. Bottom of cover shall be 6" minimum above finish floor. See Convector Detail this sheet for typical piping.
- 20" x 6" (SR), 275 cfm each, up high as possible.
- Ceiling exhaust fan above ceiling, between 2x12 joists. Extend 10" x 3-1/2" duct up thru roof, to roof jack. Install roof jack on curbed opening to be integral with roof system.
- Outline of evaporative cooler on skids, on roof. See Section (B) on this sheet.
- 14" x 14" duct thru curbed opening, integral with roof system. See Section (B) on this sheet.
- Evaporative cooler switches; pump (ON-OFF) and fan (HI-LOW-OFF). Label Switches
- Electric thermostat mounted 5'-6" above finish floor. Also see Control Diagrams.
- Finned tube radiation in wall-to-wall continuous cover. See Piping Schematic this sheet.
- Remove existing wall cap and elbows at exist. exterior wall. Replace 3/4" x 10" duct with new 12" x 6" (transition at best location nearest head). Cut opening thru existing roof structure and extend 12" x 6" exhaust duct up thru roof to gooseneck (10" min. above roof up insect screen, in ext. opening). Patch and repair roof to be watertight. Clean or replace head filter(s) as necessary for nonrestricted air flow.

NOTES: (low voltage controls)

A. The (2) semi-recessed convectors serving the corridor shall be controlled by (1) fstat as shown schematically below.

B. The recessed convectors in the restrooms and the (2) radiators shall have similar and (1) valve each.

C. Provide separate transformers, panel mount and label in exist. Elec. Rm.

120V 24V

'HONEYWELL' T87E (Thermostat)

'HONEYWELL' AT87A (Transformer)

'HONEYWELL' V8049B (2-way valve) (N.O.)

'HONEYWELL' V8049B (2-way valve) (N.O.)

TYP. RADIATOR / CONVECTOR CONTROLS
NOT TO SCALE

D. Follow manufacturer's installation instructions.

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
ROBERT M. TRUJILLO
LICENSE NO. 3845

PROJECT: ADDITION TO FIRE STATION NO. 4

SHT. TITLE: MECHANICAL FLOOR PLAN

CKD: RPF

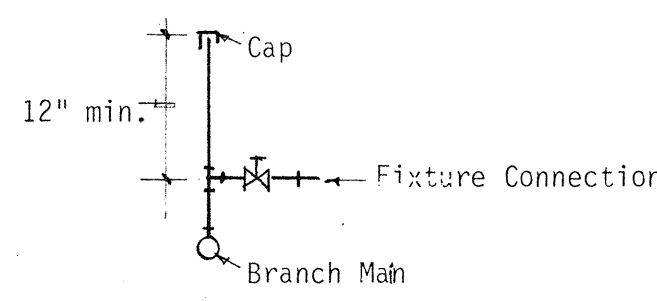
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DATE: MAY '85

JOB NO: 858

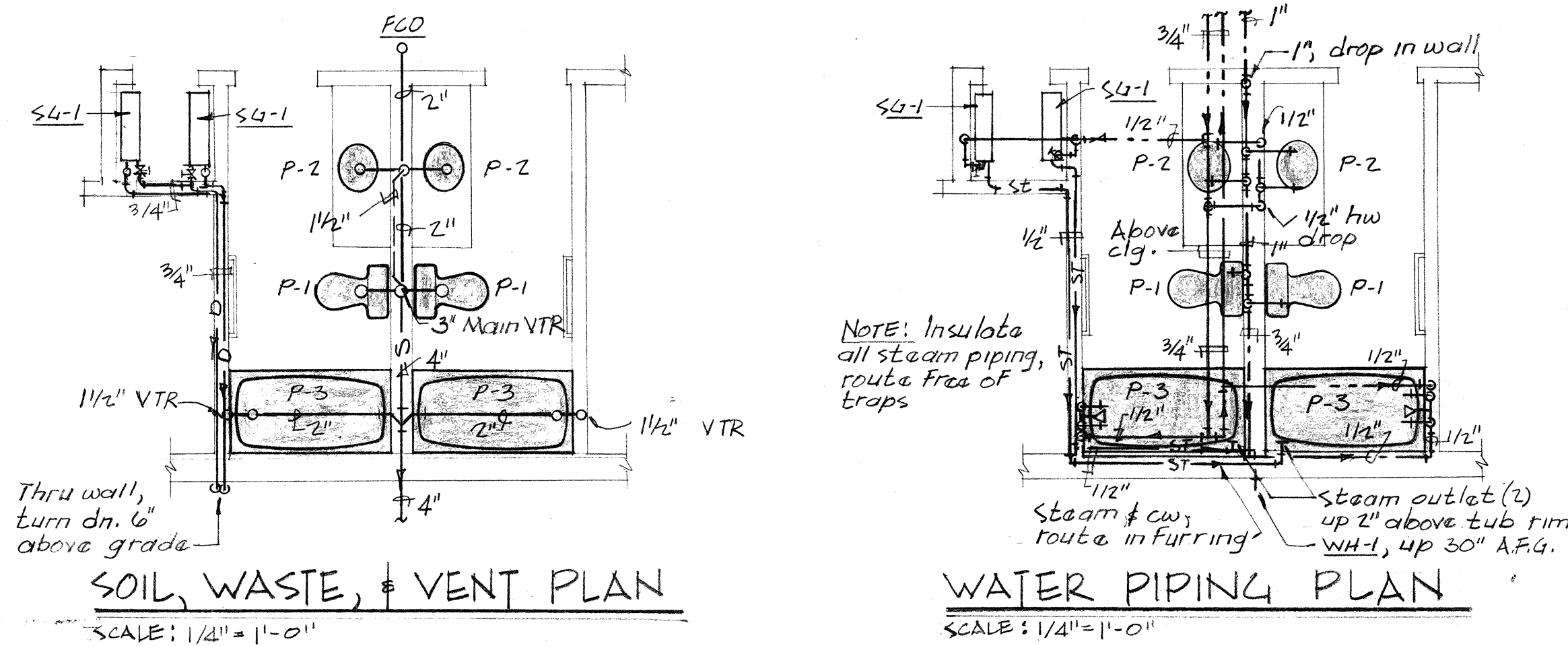
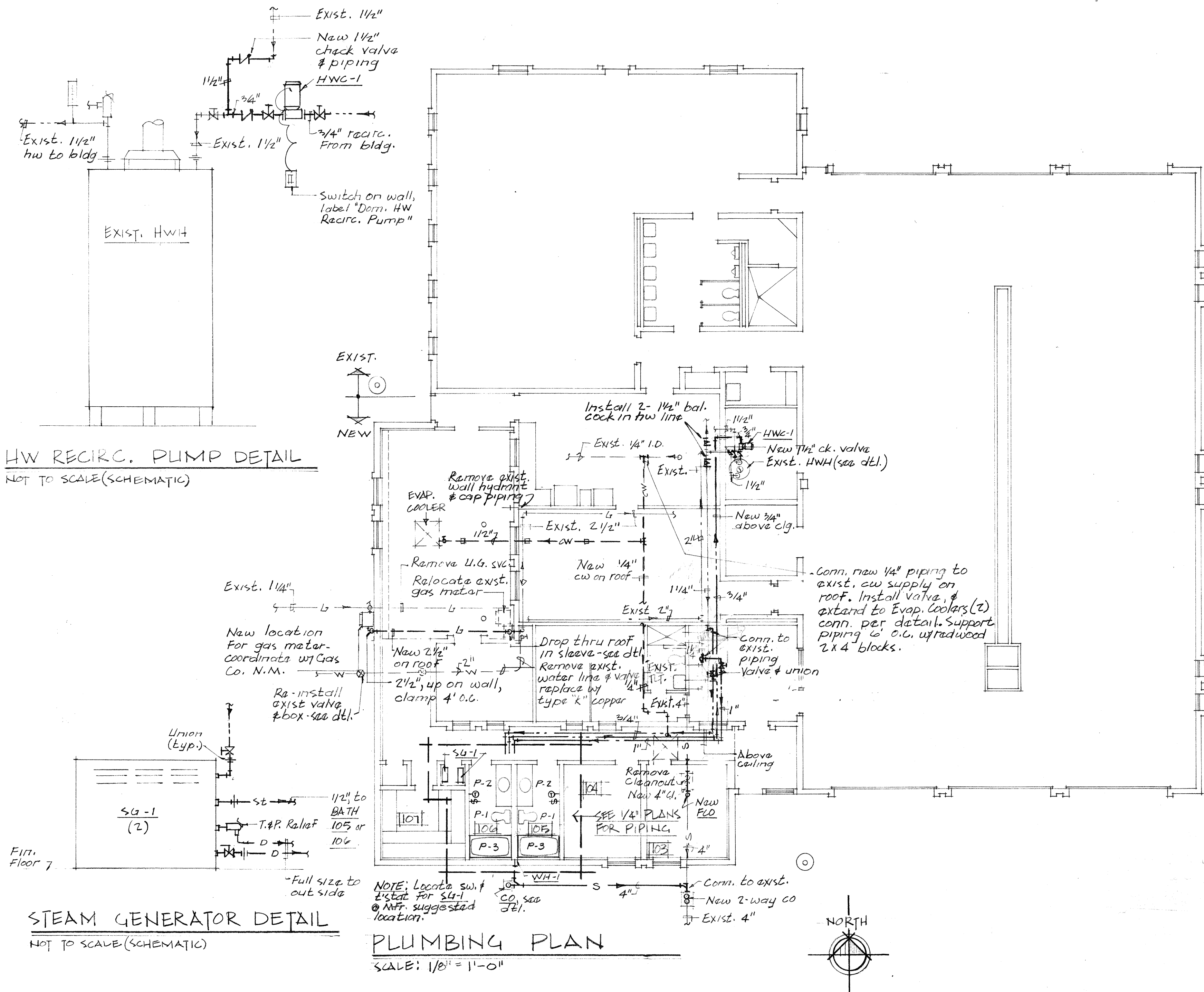
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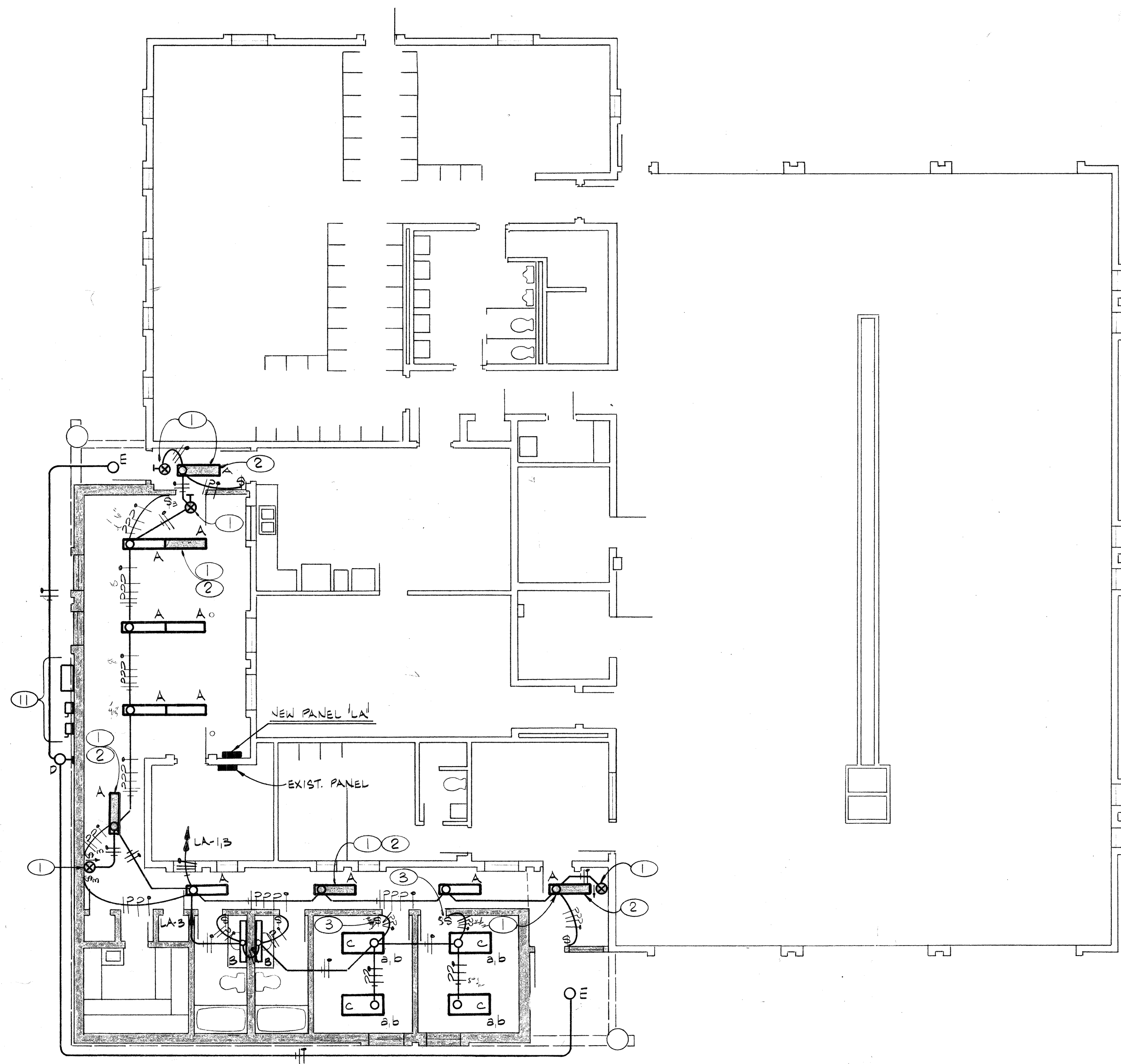
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PLUMBING SCHEDULE	
SYMBOL	DESCRIPTION
P-1	WATER CLOSET: Two-piece, floor-mounted, elongated, siphon jet, tank type, 12" roughing-in, vandalproofed bolt caps, KOHLER "Wellworth" No. K-3500-EB with No. K-7639 angle supply with L.K. stop. Seat: No. K-4650, white, fireproof, self-sustaining seat and cover. Fittings: No. K-9268, 9364, 9400 std. trim. 4" waste, 2" or 4" vent (as shown), 1/2" cw.
P-2	LAVATORY: Enameled cast iron, oval, 19-1/4" x 16-1/4", self-rimming, KOHLER "Farmington" No. K-2904 (4" centers), No. K-7401-T trim with pop-up drain, No. K-7607 supplies with loosekey stops, No. K-9004 (1-1/4" x 1-1/2") p-trap and No. 9015 nipple, 1-1/2" waste, 1- 1/2" vent, 1/2" cw, 1/2" hw.
P-3	TUB AND SHOWER: Acid-resisting enameled cast iron, recessed, 60" x 32", "safeguard" bottom, outlet at right, KOHLER "Mendota" No. K-506-S right outlet or No. K-505-S left outlet, with No. K-7004-T trim including No. K-7371 shower head, No. K-7150-R pop-up drain. 1-1/2" x 2" p-trap, 2" waste, 1-1/2" vent, 1/2" cw, 1/2" hw.
NOTE: All plumbing fixtures above shall have chrome plated finish on all exposed supply piping, valve stops, tailpieces, p-traps and escutcheons. Escutcheons shall be provided at all wall penetrations of supplies and waste lines. This Contractor shall furnish and install all fixtures indicated on this schedule where shown on Floor Plans, with all required connections. Each fixture branch riser shall be taken off from the top of branch main and an air chamber 12" long (minimum) shall be located above each fixture branch, undiminished thus:  12" min. Cap Fixture Connection Branch Main All branches shall be valved and all valves shall be accessible with access provided by this Contractor. All valves shall have unions adjacent.	
FCO	FLOOR CLEANOUT: (Inside building for applicable finish). Concrete, ceramic tile, or quarry tile - SMITH No. 4023-UG. Vinyl or asbestos vinyl tile - SMITH No. 4143-UG, recessed for tile. Carpet - SMITH No. 4023-U-G-Y with carpet marker.
CO	CLEANOUT: (Outside or unfinished area) SMITH No. 4223-U, cast-iron top, vandalproof screws, galvanized. P.B. top in outside areas.
WCO	WALL CLEANOUT: SMITH No. 4472, X:H bronze plug with stainless steel face wall cover and vandalproof screw. Install where C.O. below fixture connection is required by Code and where shown on plans.
HWC-1	HOT WATER CIRCULATING PUMP: BELL & GOSSETT Model ("75") (3/4") flanged connections, in-line booster, 1750 RPM, (1/12) HP, (120v-lph-60cy) motor, (5) 3" against (7.5) ft. TDH, all bronze construction. With switch on wall adjacent to pump, with engraved phenolic resin nameplate attached reading "Hot Water Circulating Pump On-Off".
WH-1	WALL HYDRANT: SMITH, Figure (5609), bronze hydrant with (P.B.) face, freezeproof, with loose-key, 3/4" hose thread, with integral vacuum breaker, 3/4" inlet.
SG-1	STEAM GENERATOR: AMEREC, Model AR50, electric unit with stainless steel tank, safety relief & low water cut-off. 240v-lph-60hz, 5 KW element, U.L. listed. Furnish with two thermostats & two timers, temp & press. relief valve, with all necessary items for double outlet use. Provide chrome plated outlets (2), controls, etc., for a complete working assembly.

GENERAL PLUMBING NOTES

- All piping shall be concealed where possible. All exposed piping, where concealment is not possible, shall be painted.
- All piping (hot water, hot water recirculating and cold water) shall be insulated. See Specifications.
- All branches shall be valved and all valves shall have unions adjacent. Access panels and doors shall be furnished to General Contractor for installation and access to valves where required. Locate additional valves as shown on drawings.
- All piping shall pitch to drain, and Contractor shall provide valving for drainage. Contractor shall deliver a marked-up set of plans to the Owner (prior to final payment) showing all branch valves and all drainage points.
- Care shall be taken to avoid mechanical ductwork, electrical equipment and air handling equipment. This Contractor shall be responsible for coordinating routing of piping with sheet metal contractor. Relocation of piping required by poor coordination by this Contractor shall be at his own expense.
- All water piping in Mechanical Equipment Rooms shall be insulated.
- No water piping shall be located in outside walls, unless shown to be, and then piping to be insulated and located as close as possible to inside of wall cavity with additional insulation between piping and exterior of wall.





LIGHTING PLAN

KEYED NOTES

- ① FIXTURES INDICATED ARE EMERGENCY ILLUMINATION SOURCES DURING NORMAL POWER FAILURE.
- ② ALL LAMPS IN FIXTURE INDICATED SHALL BE CONNECTED TO NORMAL SUPPLY/CONTROL WITH ONE LAMP ALSO BEING CONNECTED THRU AN EMERGENCY BATTERY SUPPLY. THE EMERGENCY BATTERY SUPPLY SHALL BE RADIANT #SNC-77 COMPLETE WITH INDICATOR LIGHT AND TEST SWITCH. BATTERY SUPPLY UNIT ALONG WITH TEST SWITCH AND INDICATOR LIGHT SHALL BE INSTALLED IN FIXTURE PER EMERGENCY BATTERY UNIT MANUFACTURERS WIRING DIAGRAMS FOR A/C SWITCHED CIRCUIT/CONTROL.
- ③ TWO SWITCHES, S_a & S_b . S_a SHALL CONTROL CENTER LAMP IN EACH FIXTURE WITH S_b CONTROLLING THE TWO OUTER LAMPS.
- ④ EXTEND TELEPHONE HOMERUN CONCEALED ABOVE NEW CEILING INTO EXIST. ELECTRICAL CLOSET AND TERMINATE INTO EXIST. TELEPHONE CABINET.
- ⑤ JUNCTION BOX FOR CONNECTION OF SAUNA CONTROLS.
- ⑥ JUNCTION BOX FOR CONNECTION OF SAUNA LIGHT.
- ⑦ JUNCTION BOX FOR CONNECTION OF SAUNA HEATER.
- ⑧ INSTALLATION OF ALL JUNCTION BOXES, CONDUIT AND WIRE SHALL BE AS PER SAUNA MANUFACTURERS REQUIREMENTS AND/OR RECOMMENDATIONS.
- ⑨ LABEL SWITCH "EXHAUST FAN".
- ⑩ FURNISH AND INSTALL A 30 AMP, 250 VOLT, 3 POLE + S.N., NEMA 3R FUSIBLE DISCONNECT SWITCH. ONE POLE FOR FAN "HI", ONE REMAINING POLE FOR "PUMP". FUSE SWITCH WITH BUSS FUSETRONS SIZED 125% OF MOTOR RATED FULL LOAD AMPERES.
- ⑪ LOCATION OF SERVICE ENTRANCE EQUIPMENT. SEE POWER RISER DIAGRAM FOR REQUIREMENT.
- ⑫ DELETED.
- ⑬ INSTALL JUNCTION BOX FOR CONNECTION OF STEAM GENERATOR. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- ⑭ FURNISH AND INSTALL JUNCTION BOXES FOR CONNECTION OF STEAM GENERATOR TIMER AND THERMOSTAT. EXTEND CONDUIT AND CONTROL CIRCUITS TO RESPECTIVE GENERATOR. INSTALLATION SHALL BE AS PER MANUFACTURERS INSTALLATION AND WIRING DIAGRAMS.

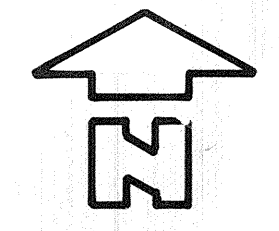


POWER & SPECIAL SYSTEMS PLAN

NOTE:

BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT:

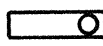
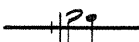
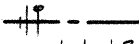
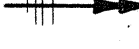
- A. THE BIDDER AND ALL SUBCONTRACTORS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND OTHER CONSTRUCTION DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED; FURTHER THAT,
- B. THE BIDDER HAS CAREFULLY EXAMINED THE PROJECT SITE AND AREA OF WORK AND THAT FROM HIS OWN INVESTIGATIONS HE SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK AND THE CHARACTER, QUALITY, QUANTITIES OF MATERIALS AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK, THE GENERAL AND LOCAL CONDITIONS AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR ITS PERFORMANCE; FURTHER THAT,
- C. THE BIDDER IS AWARE THAT ALL SPECIAL SYSTEMS, ALARM SYSTEM, PROGRAM SOUND, ETC. ARE TOTALLY OPERABLE AND SHALL BE OPERABLE AT PROJECT COMPLETION. ANY DISRUPTION OF SYSTEMS DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, WITH SYSTEMS LEFT TOTALLY OPERABLE; FURTHER THAT,
- D. THE BIDDER IS AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE SUCCESSFUL CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THOSE AREAS AND TO MAINTAIN ALL SUCH BRANCH CIRCUITING AND CONTROLS OPERATIONAL AFTER MODIFICATIONS.





KEYED NOTES

- (1) EXISTING METER BASE RELOCATED AS INDICATED ON PLANS.
- (2) EXISTING 200 AMP DISCONNECT SWITCH RELOCATED AS INDICATED ON PLANS.
- (3) 3 #3/0 THW AND 1 #6 THW GROUND IN 2" CONDUIT.
- (4) 3 #2 THW AND 1 #6 THW GROUND IN 1 1/2" CONDUIT.
- (5) 1 #1/0 BARE COPPER GROUND IN 1" CONDUIT.
- (6) FURNISH AND INSTALL AN 8' X 8' X REQUIRED LENGTH SCREW COVER WEATHERPROOF WIREWAY.
- (7) 3-500 MCM THW IN 3" CONDUIT.
- (8) REMOVE LIGHT FIXTURE COMPLETE. SEE LIGHTING PLAN FOR NEW LOCATION. CONDUIT AND WIRE SHALL BE EXTENDED TO NEW LOCATIONS.
- (9) REMOVE PHOTO-CELL COMPLETE. SALVAGE TO OWNER. CONDUIT AND WIRE SHALL BE EXTENDED TO NEW LOCATIONS.
- (10) REMOVE METER BASE AND MAIN DISCONNECT SWITCH COMPLETE INCLUDING ALL CONDUIT AND WIRE. SEE POWER AND SPECIAL SYSTEMS PLAN FOR NEW LOCATIONS.
- (11) EXISTING UNDERGROUND FEEDER TO BE REMOVED. COORDINATE WITH PMN.
- (12) FURNISH AND INSTALL A 200 AMP, 250 VOLT, 2 POLE + S.N., NEMA 3R FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH 150 AMP BUSS FUSETRONS.
- (13) RELOCATE TELEPHONE AERIAL TERMINATION POINT AT BUILDING AND CABLE ALONG BUILDING PARAPET. COORDINATE WITH MOUNTAIN BELL ON REMOVAL AND RELOCATION.
- (14) FURNISH A 30 AMP, 250 VOLT, 3 POLE + S.N., NEMA 3R FUSIBLE DISCONNECT SWITCH. INSTALL SWITCH ON COOLER SO AS NOT TO HAMPER MAINTENANCE OF UNIT. FUSE SWITCH WITH BUSS FUSETRONS SIZE 125% OF MOTOR RATED FULL LOAD AMPS. FOR FAN "HI SPEED (ONE POLE). FAN "LO" SPEED (ONE POLE), AND PUMP (REMAINING POLE).

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	BRACKET OUTLET AND FIXTURE.
	CEILING MOUNTED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED.
	WALL BRACKET OR RECESSED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED.
	FLUORESCENT OUTLET AND FIXTURE.
	EVAPORATIVE COOLER SWITCHES, ONE "HI-OFF-LO" FOR FAN AND ONE "ON-OFF" FOR PUMP.
	SINGLE POLE WALL SWITCH.
	THREE WAY WALL SWITCH.
	THERMAL SWITCH, WEATHERPROOF IF INSTALLED OUTSIDE.
	JUNCTION BOX FLUSH IN WALL, HEIGHT AS INDICATED WITH CONNECTION TO EQUIPMENT.
	DUPLEX CONVENIENCE OUTLET, UP 16" OR AS INDICATED.
	THERMOSTAT, UP 48" UNLESS OTHERWISE INDICATED.
	PHOTOCELL LIGHTING CONTROLLER, PRECISION #T-15 MOUNTED ON 1/2" RIGID CONDUIT STUBBED UP 12" ABOVE ROOF, WITH WINDOW FACING NORTH.
	LIGHT FIXTURES INDICATED WITH HALF SHADING ARE CONNECTED TO EMERGENCY POWER SOURCE.
	TELEPHONE OUTLET, UP 16" OR AS INDICATED.
	LIGHT BRANCH CIRCUIT PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	MOTOR CONNECTION WITH HP INDICATED.
	SAFETY SWITCH, TO HAVE POLES AND RATING REQUIRED, TO BE NEMA 3R IF INSTALLED OUTDOORS.
	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP). PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.
	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED. NEUTRAL, HOT, SWITCH AND GROUND RESPECTIVELY.
	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR WITH CONDUCTORS INDICATED.
	HOME RUN TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED.
	TELEPHONE CONDUIT, MINIMUM 3/4" WITH PULL WIRE.
	1" CONDUIT WITH PULL WIRE TO TELEPHONE TERMINAL BOARD.
	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, UP 16" OR AS INDICATED. MOUNTING BOX AND DEVICE SHALL BE SIMILAR AND EQUAL TO PASS AND SEYMOUR #1591-F46 DEVICE AND #4600 FLUSH MOUNTED LOCKING BOX.



SCALE: 1/8" 1'-0"