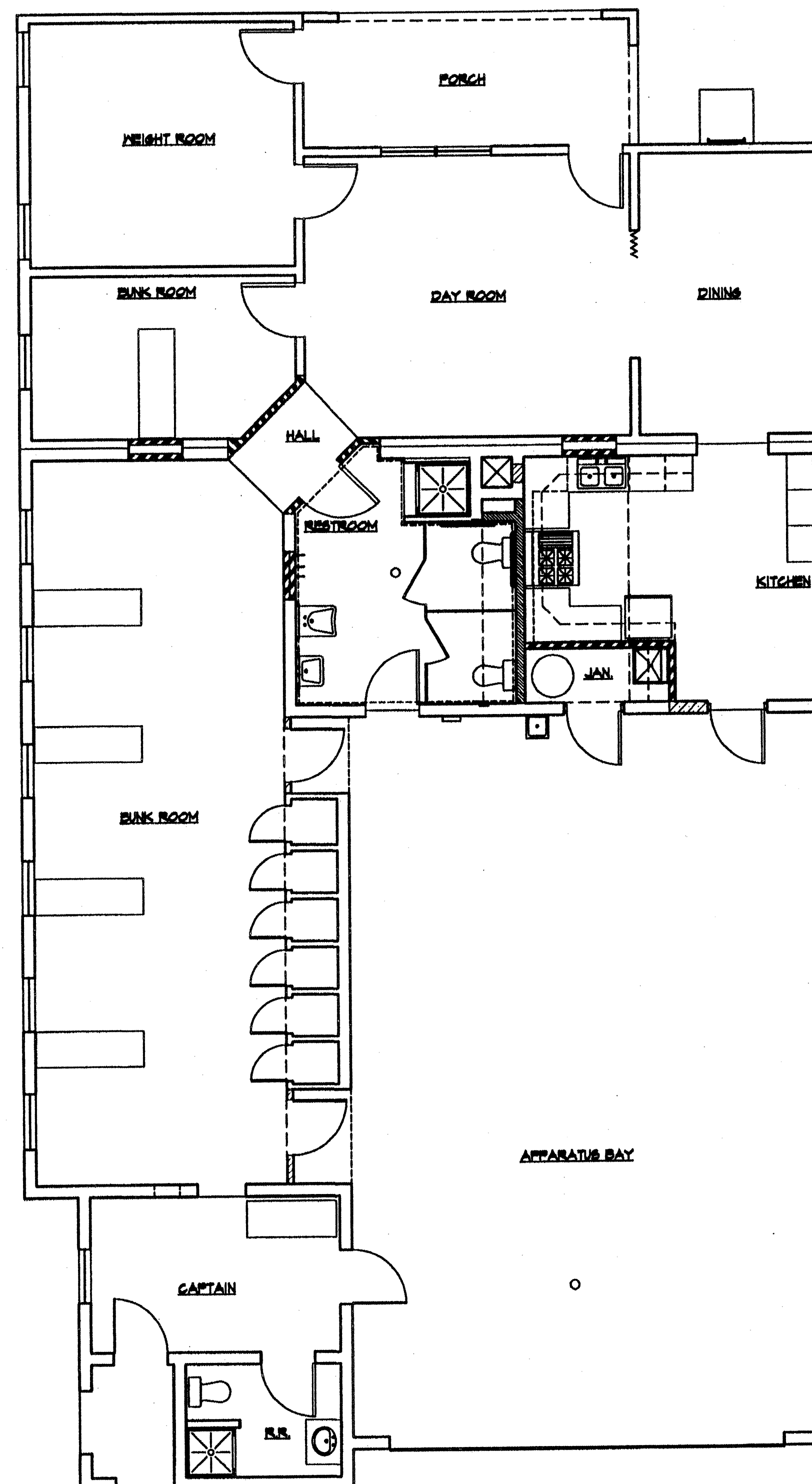
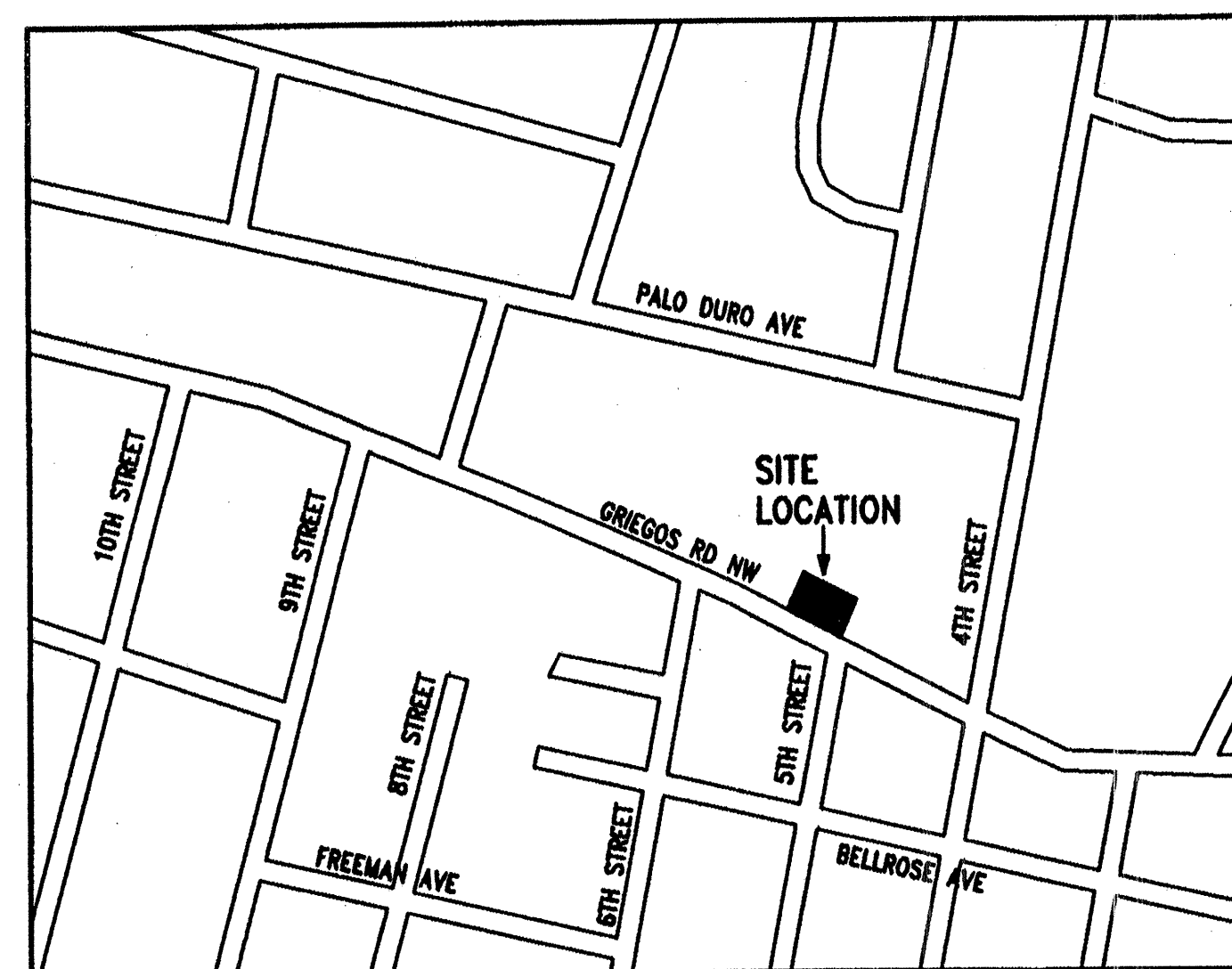


# City of Albuquerque Fire Department

## Improvements to FIRE STATION 6

623 Griegos NW  
Albuquerque, New Mexico

Vicinity Map      Zone Atlas: F-14-Z



### ARCHITECT:

HARBERTS & LEVINE ARCHITECTS, P.C.  
2001 CARLISLE NE, SUITE C  
ALBUQUERQUE, NEW MEXICO 87110  
(505)268-1234 FAX:(505)268-7755



### MECHANICAL ENGINEER:

Jim Feeney Consulting  
P.O. Box 3094  
Farmington, New Mexico 87499  
(505)564-8840

### ELECTRICAL ENGINEER:

Telcon Engineering, Inc.  
4800 Juan Tabo NE  
Albuquerque, New Mexico 87111  
(505)292-3202

### Building Code Data

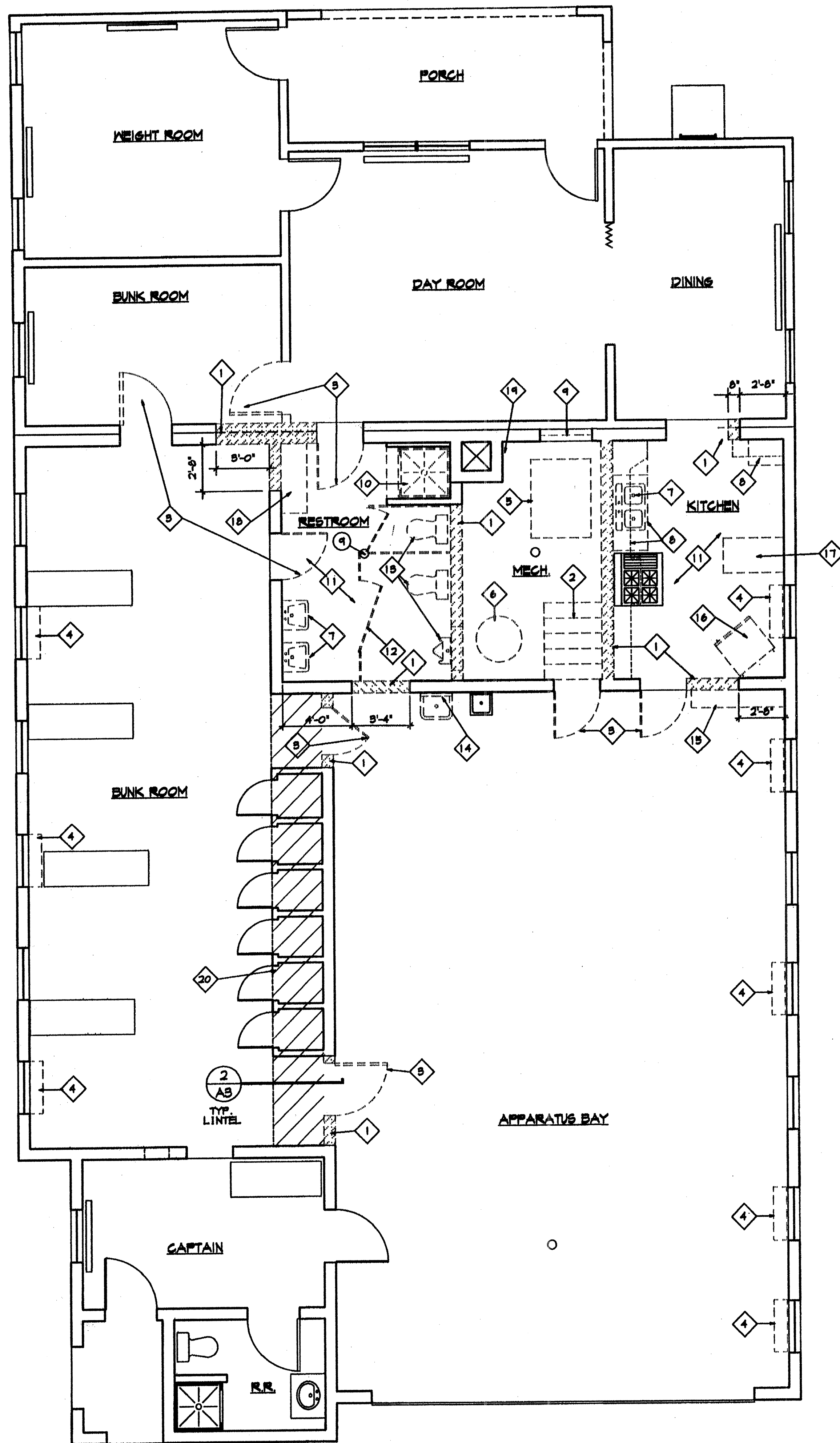
OCCUPANCY GROUP: B-2  
TYPE OF CONSTRUCTION: V-N (EXISTING)  
FLOOR AREA: N/A  
OCCUPANT LOAD: N/A  
SEISMIC ZONE: 2B  
FLOOR DESIGN LOAD: 150 PSF OVER EXISTING MECHANICAL ROOM

### Index to Drawings

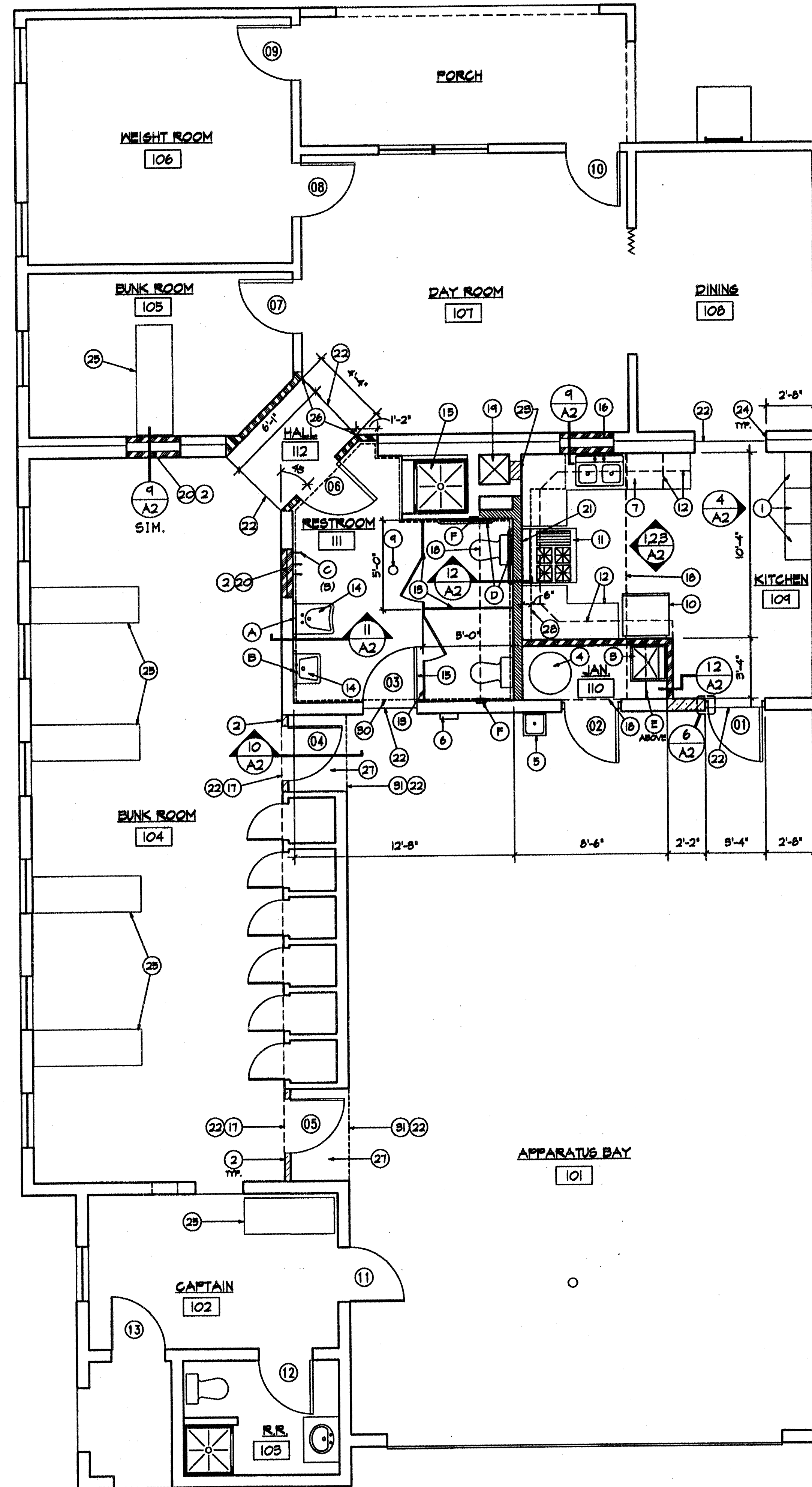
- A1 DEMOLITION PLAN, FLOOR PLAN
- A2 DETAILS, INTERIOR ELEVATIONS, SCHEDULES
- A3 DETAILS, REFLECTED CLG. PLAN, SPECIFICATIONS
- STRUCTURAL FLOOR PLAN
- M1 MECHANICAL DEMOLITION PLAN, FLOOR PLAN
- E1 ELECTRICAL DEMOLITION PLAN
- E2 LIGHTING, POWER, AND SPECIAL SYSTEMS PLANS

DATE: MAY 30, 1997

SET #: \_\_\_\_\_



**DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"



**FLOOR PLAN**  
SCALE: 1/4"=1'-0"

1. (3) 24"x18" FOOD STORAGE LOCKERS.
2. REPAIR MOOD WALL BASE TO MATCH EXIST.
3. MOP BASIN, SEE MECHANICAL DRAWINGS.
4. NEW WATER HEATER, SEE MECHANICAL DRAWINGS.
5. EXISTING ELECTRIC WATER COOLER TO REMAIN.
6. RELOCATED ELEC. PANEL, SEE ELEC. DWGS.
7. RELOCATED DISHWASHER.
8. NOT USED.
9. FLOOR DRAIN, SEE MECHANICAL DRAWINGS.
10. RELOCATED REFRIGERATOR.
11. RELOCATED EXISTING GAS RANGE, SEE MECHANICAL DRAWINGS.
12. NEW COUNTER, BASE CABINETS AND UPPER CABINETS.
13. STEEL TOILET PARTITION, BAKED ENAMEL FINISH, FIELD VERIFY DIMENSIONS.
14. NEW LAVATORIES, SEE MECHANICAL.
15. NEW SHOWER UNIT, SEE MECHANICAL DRAWINGS.
16. FILL IN EXISTING WINDOW OPENING. MATCH ADJACENT FINISHES. SEE DETAIL 9/A2.
17. NEW SOFFIT FOR HVAC DUCT ABOVE.
18. DASHED LINE INDICATES EXTENT OF NEW CONCRETE SLAB.
19. EXISTING EXHAUST FLUE TO REMAIN.
20. FILL IN EXISTING DOOR OPENING. MATCH ADJACENT FINISHES, STAGGER STUDS FOR WALL WIDTH. AS REQUIRED.
21. NEW 18 GA. TYPE 304 STAINLESS STL. BACK SPLASH PANEL, FLOOR TO UNDERSIDE OF VENT HOOD ABOVE. WIDTH OF GAS RANGE.
22. VINYL TRANSITION STRIP.
23. PATCH WALL AT ABANDONED FLUE PIPE.
24. REFINISH PLASTER WITH BULLNOSE CORNER BEAD TO MATCH EXISTING.
25. EXISTING STORAGE UNIT TO REMAIN.
26. EXTEND NEW MOOD WALL BASE TO THIS PT. TRANSITION TO NEW VINYL COVE BASE TO MATCH EXISTING.
27. NEW VCT OVER MOOD FLOORING THIS LOCATION ONLY.
28. REAR OF BASE CABINETS, NEW WALL.
29. REPAIR ROOF WHERE UNIT REMOVED, SEAL AROUND NEW UNITS.
30. FRP. PANEL FULL HEIGHT.
31. SOFFIT ABOVE.

#### General Notes

1. PROVIDE NEW STEEL ANGLE LINTELS AT ALL NEW OPENINGS IN EXIST. WALLS. SEE SCHEDULE.
2. PROVIDE 2X SOLID WALL BLOCKING FOR ALL TOILET ACCESSORIES. SEE SHEET A-2 FOR ACCESSORIES SCHEDULE.
3. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REMOVALS.
4. REPAIR & PATCH ROOF TO WATER TIGHT CONDITION WHERE MECHANICAL UNITS REMOVED. OPTION: CAP DUCT PENETRATION TO REMAIN.
5. ACTUAL CONDITION/LOCATION & DIRECTION OF ROOF STRUCTURE IS TO BE DETERMINED BY DISCOVERY IN FIELD. SHOULD OWNER/CONTRACTOR ENCOUNTER CONDITIONS WHICH CONFLICT W/ REMOVALS & NEW WORK SHOWN, HE SHALL NOTIFY ARCHITECT IMMEDIATELY FOR RESOLUTION.

#### Wall Type Legend

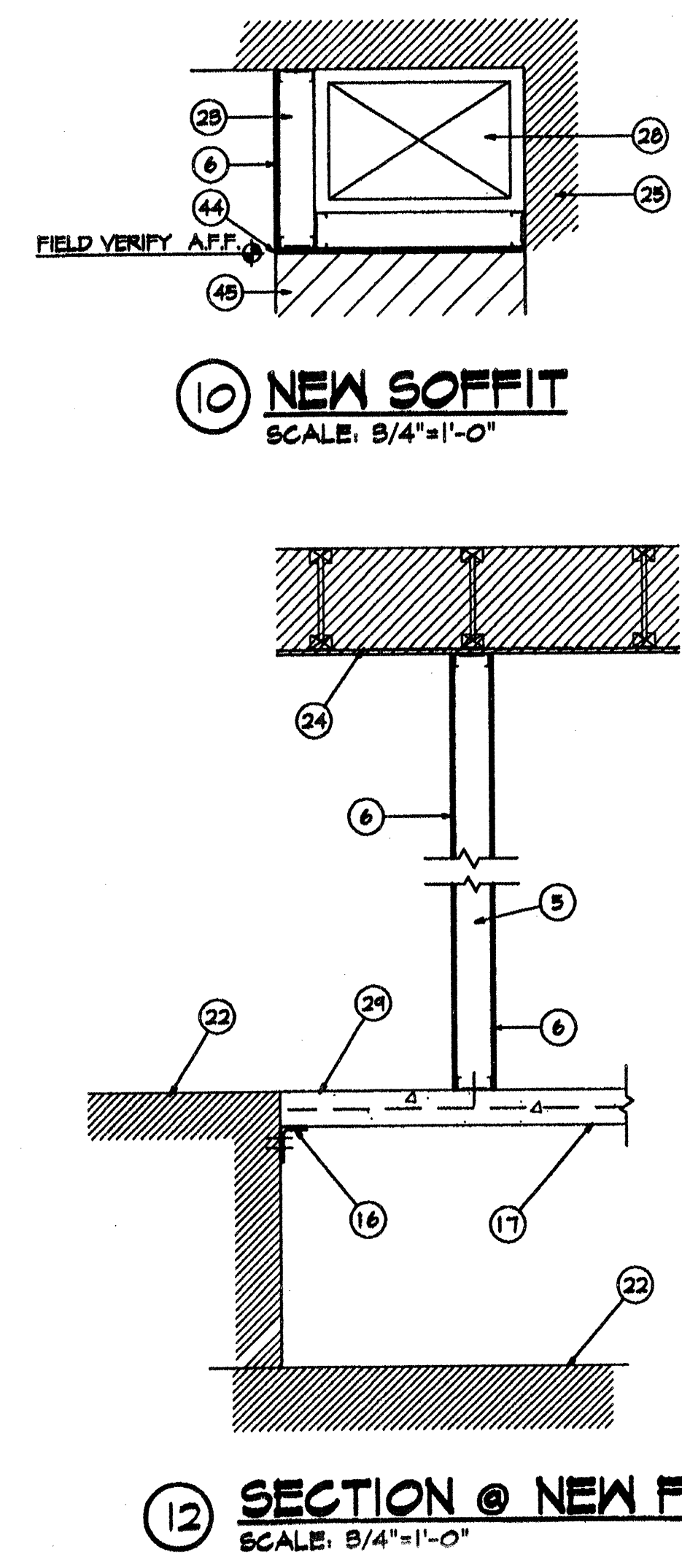
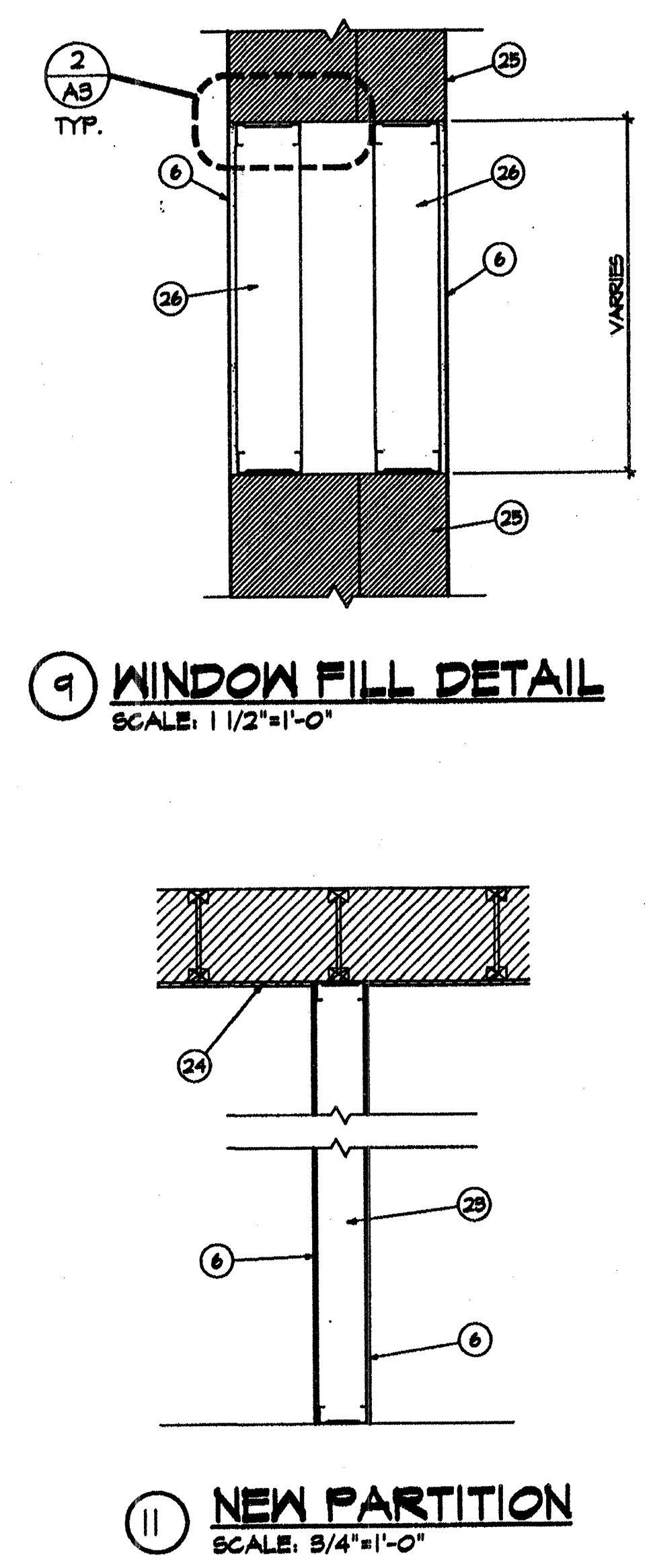
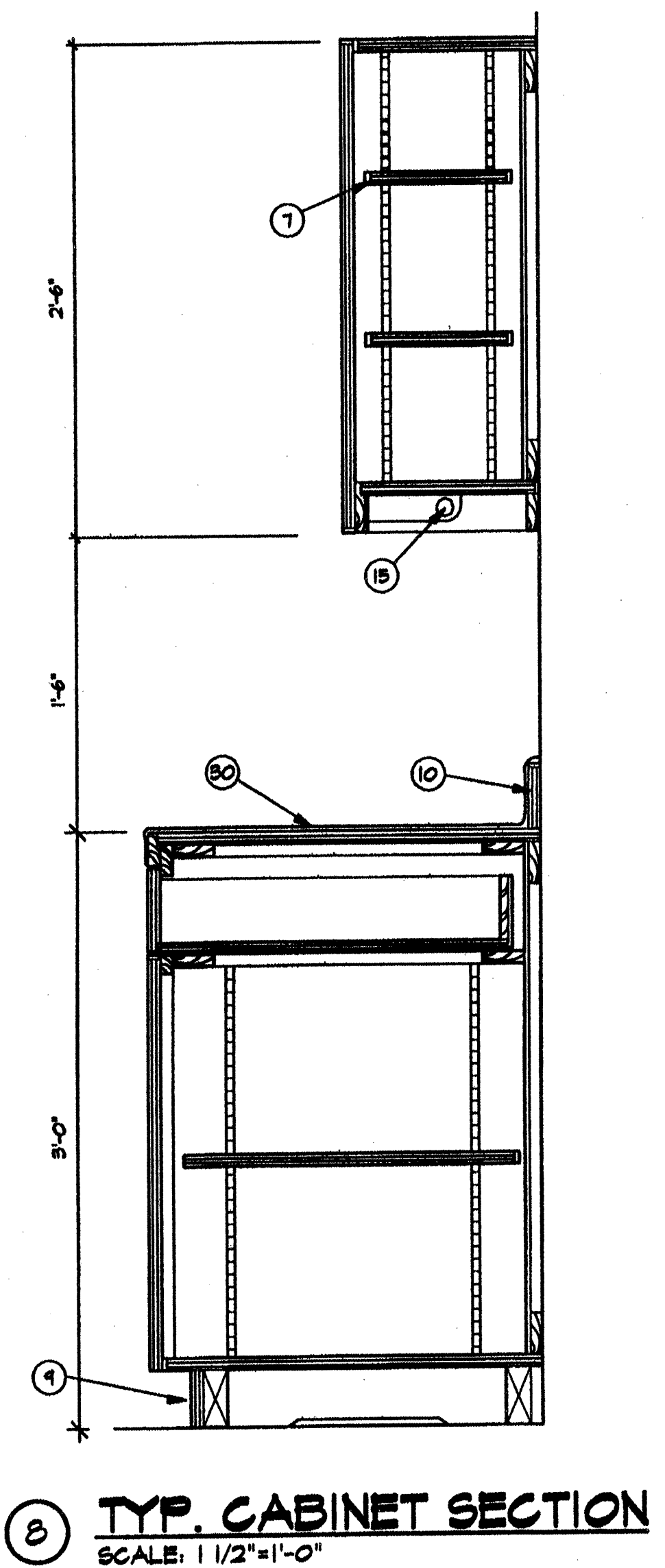
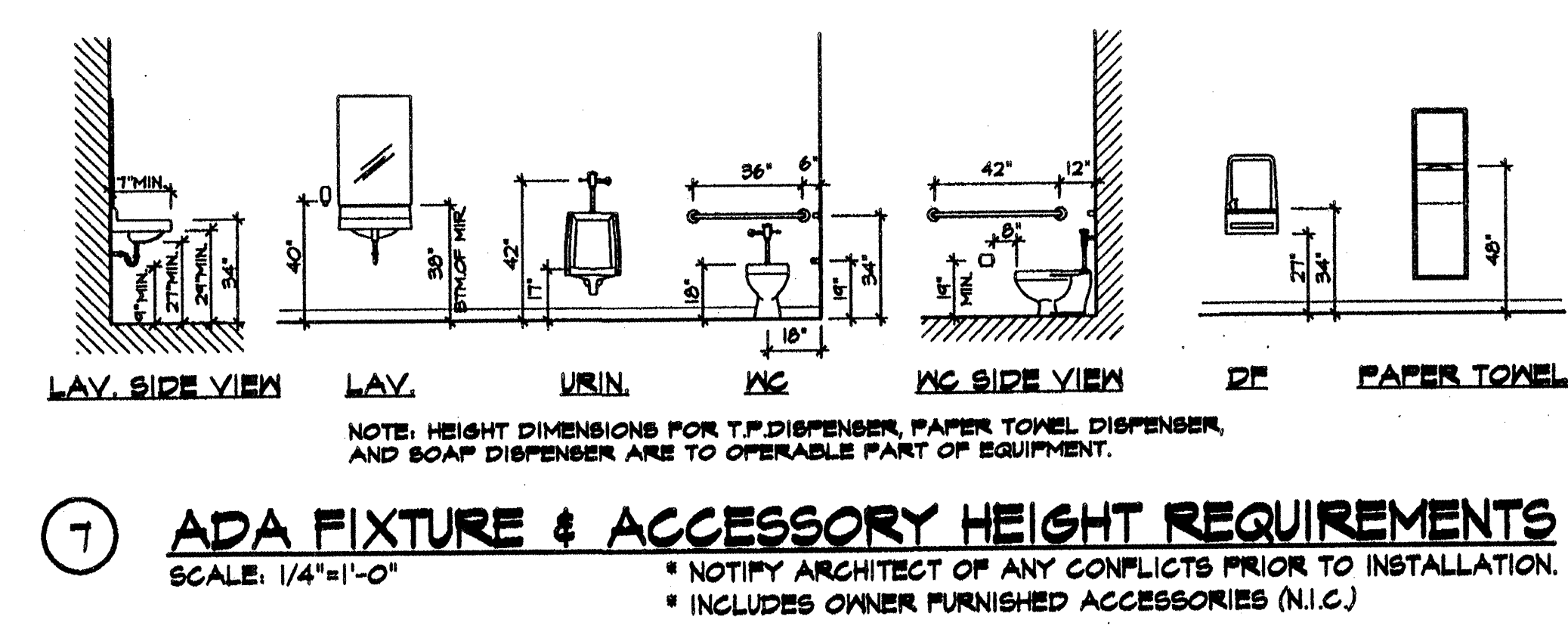
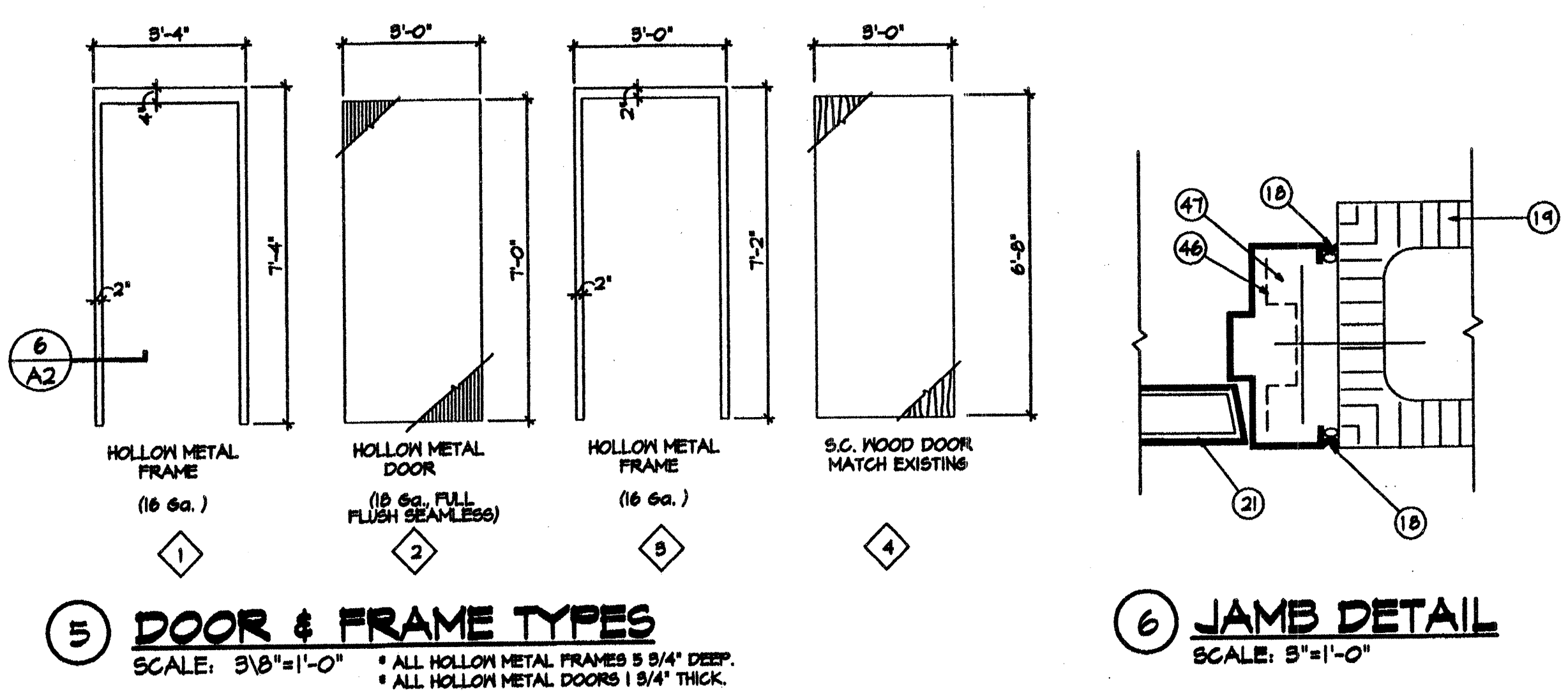
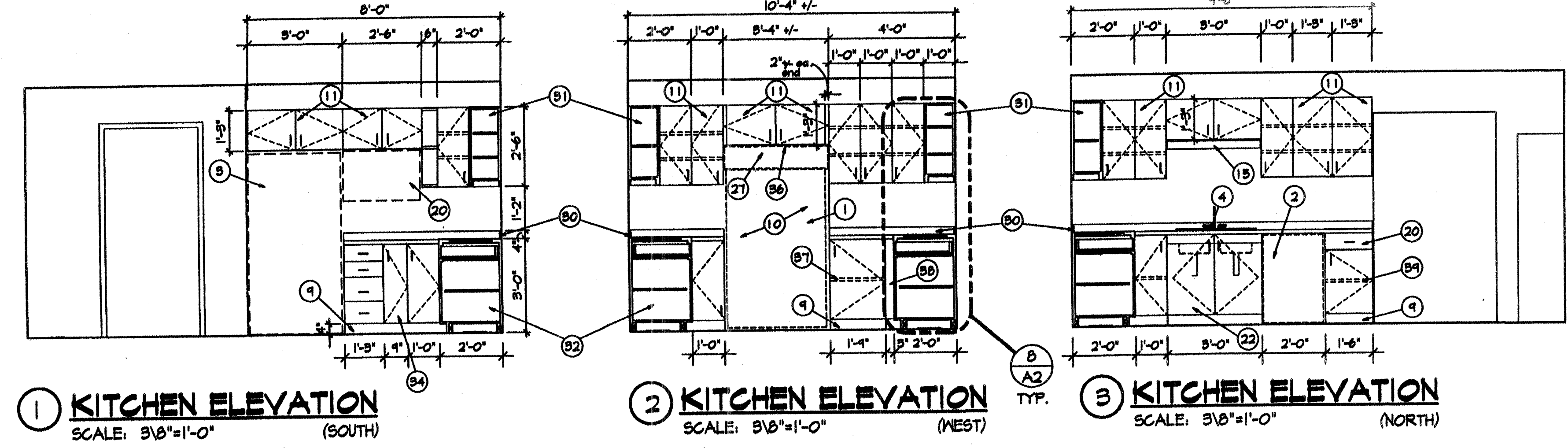
	NEW 6" METAL STUDS @ 24" O.C. PARTITION
	NEW 4" METAL STUD @ 24" O.C. PARTITION
	NEW 8" MASONRY WALL
	WALL REMOVED
	EXIST. WALL CONSTRUCTION TO REMAIN

#### Demolition Notes

1. REMOVE EXISTING MASONRY WALL IN ITS ENTIRETY.
2. REMOVE EXISTING CONCRETE STAIR IN ITS ENTIRETY.
3. REMOVE EXISTING DOOR AND ASSOCIATED FRAME AND HARDWARE.
4. REMOVE WALL HEATERS, SEE MECHANICAL DRAWINGS.
5. REMOVE EXISTING BOILER HEATING SYSTEM, SEE MECHANICAL DRAWINGS.
6. REMOVE EXISTING WATER HEATER, SEE MECHANICAL DRAWINGS.
7. REMOVE EXISTING SINK AND ASSOCIATED PIPING, SEE MECHANICAL DRAWINGS.
8. REMOVE EXISTING COUNTER, LOWER AND UPPER CABINETS.
9. REMOVE EXISTING WINDOW UNIT.
10. REMOVE EXISTING SHOWER WALLS AND ASSOCIATED PIPING, PREP. FLOOR DRAIN TO RECEIVE NEW SHOWER UNIT. SEE MECHANICAL DRAWINGS.
11. REMOVE EXISTING VINYL TILE FLOORING. OWNER TO VERIFY ASBESTOS CONTENT.
12. REMOVE EXISTING TOILET PARTITION.
13. REMOVE EXISTING PLUMBING FIXTURES, SEE MECHANICAL DRAWINGS.
14. REMOVE SERVICE SINK, CAP HW, CH, & DRAIN LINES AT WALL, SEE MECHANICAL DRAWINGS.
15. REMOVE WALL SHELF IN ITS ENTIRETY.
16. RELOCATE EXIST. REFRIGERATOR AS REQUIRED FOR NEW CONST.
17. REMOVE EXISTING BASE CABINET.
18. REMOVE EXISTING STORAGE CABINET.
19. ABANDON BOILER EXHAUST FLUE PIPE AT WALL.
20. SANCUT & REMOVE SOFFIT/WALL AT EXISTING SOFFIT LEVEL (7'-6" 1/2") AS REQUIRED TO INSTALL NEW HVAC DUCTWORK. STORAGE LOCKERS TO REMAIN INTACT.



File FLOORPLANS



- Notes:
1. GAS RANGE W/ INTEGRAL HOOD BY OWNER.
  2. OWNER FURNISHED DISHWASHER.
  3. REFRIGERATOR BY OWNER.
  4. DOUBLE BIN SINK.
  5. 6" X 20 GA. METAL STUDS @ 24" O.C., ANCHOR TO SLAB WITH POWDER DRIVEN FASTENERS AT 24" O.C.
  6. 5/8" GYP. BD., TAPED, TEXTURED, PAINTED, PLASTER TEXTURE TO MATCH EXISTING.
  7. 2 ADJUSTABLE SHELVES.
  8. INSULATE TRAP LINES.
  9. 4" TOE KICK.
  10. 18 GA. ST. STL. BACKSLASH, FLOOR TO UNDERSIDE OF HOOD. ANCHOR TO WALL W/ OVAL HEAD SCREWS & COUNTERSUNK WASHERS AT 12" O.C. AT PERIMETER.
  11. STANDARD WALL CABINET.
  12. OPEN FIXED SHELF UNIT.
  13. 2" X 2" X 5/8" STL. ANGLE, PAINTED, SPACING AS REQUIRED FOR SUPPORT.
  14. ANCHOR TO SOLID BLOCKING W/ 5/8" LAG SCREWS W/ WASHERS.
  15. UNDER CABINET LIGHT, WHERE OCCURS.
  16. CONTINUOUS 5 1/2" X 5" X 1/4" SHELF ANGLE, BOLTED TO FOUNDATION WALL W/ 1/2" EXPANSION BOLTS @ 24" O.C.
  17. LONGSPAN METAL DECK, 20 GA., W/ 5" CONC. FILL & #4'S @ 16" E.N.
  18. BACKER ROD & SEALANT.
  19. 6" CHU.
  20. MICROWAVE BY OWNER.
  21. DOOR AS SCHEDULED.
  22. EXISTING CONC. FLOOR.
  23. 4" X 20 GA. METAL STUDS @ 24" O.C. MAX., ANCHOR TO SLAB POWDER DRIVEN FASTENERS AT 24" O.C.
  24. EXISTING CEILING STRUCTURE TO REMAIN.
  25. EXISTING MASONRY AND/OR STUD WALL WITH PLASTER FINISH.
  26. FILL OPENING W/ 4" METAL STUDS @ 24" O.C. MAX.
  27. VENT HOOD BY OWNER.
  28. MECHANICAL DUCT. SEE MECHANICAL DWGS.
  29. FLOORING AS SCHEDULED.
  30. 18 GA. TYPE 304 ST. STL. COUNTER W/ BACKSLASH.
  31. WALL CORNER CABINET (LAZY SUSAN).
  32. LAZY SUSAN CORNER UNIT.
  33. BASE DRAWER CABINET.
  34. BASE TRAY CABINET.
  35. 2 FIXED SHELVES.
  36. DUCT THRU ROOF/CABINET.
  37. FULL OUT TRAY UNIT.
  38. FIXED FILLER PANEL.
  39. 12" DEEP FIXED SHELF.
  40. ADJUSTABLE SHELF.
  41. FIXED SHELF.
  42. STL. HASP, TYP. OF 6.
  43. FOOD STORAGE LOCKER, TYP. OF 3 24" W X 18" D X HT. SHOWN.
  44. DRYWALL CONTROL JOINT.
  45. EXISTING LOCKER UNITS.
  46. MASONRY JAMB ANCHOR, MINIMUM OF 5/JAMB.
  47. GROUT FRAME SOLID.

DOOR SCHEDULE						
Number	Width	Height	Door Type	Frame Type	H.M.	Comments
01	8'-0"	7'-0"	2	1	1	20 MIN.
02	8'-0"	7'-0"	2	1	1	48 MIN.
03	8'-0"	7'-0"	2	1	1	20 MIN.
04	8'-0"	7'-0"	2	2	1	20 MIN.
05	8'-0"	7'-0"	2	3	1	20 MIN.
06	8'-0"	7'-0"	2	2	5	
07	8'-0"	6'-8"	4	EXISTING	4	MATCH EXISTING
08	EXISTING DOOR/FRAME TO REMAIN				5	NEW HM ONLY
09	EXISTING DOOR/FRAME TO REMAIN				6	NEW HM ONLY
10	EXISTING DOOR/FRAME TO REMAIN				6	NEW HM ONLY
11	EXISTING DOOR/FRAME TO REMAIN				7	NEW HM ONLY
12	EXISTING DOOR/FRAME TO REMAIN				4	NEW HM ONLY
13	EXISTING DOOR/FRAME TO REMAIN				6	NEW HM ONLY

ROOM FINISH SCHEDULE									
Number	Room Name	FLOORS BASE				WALLS			
		EXISTING TO REMAIN	EXPOSED CONCRETE	EXISTING TO REMAIN	REPAIR AS REQ'D	NEW VINYL COE	EXISTING TO REMAIN	NEW PANELS FULL HT.	PTD. GYP. BD.
101	APPARATUS BAY								
102	CAPTAIN								
103	RESTROOM								
104	SUNK ROOM								
105	SUNKROOM								
106	WEIGHT ROOM								
107	DAY ROOM								
108	DINING								
109	KITCHEN								
110	JANITOR								
111	RESTROOM								
112	HALL								

STATE OF NEW MEXICO  
MARK LEVINE  
No. 2314  
REGISTERED ARCHITECT  
HARBERTS & LEVINE  
ARCHITECTS

2001  
CARLISLE N.E.  
SUITE C  
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87110  
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fax (505) 268-7755

A Professional Corporation

CITY OF ALBUQUERQUE FIRE DEPARTMENT

IMPROVEMENTS TO  
FIRE STATION NO. 6  
623 Griegos NW  
Albuquerque, New Mexico

DETAILS  
INTERIOR ELEVATIONS

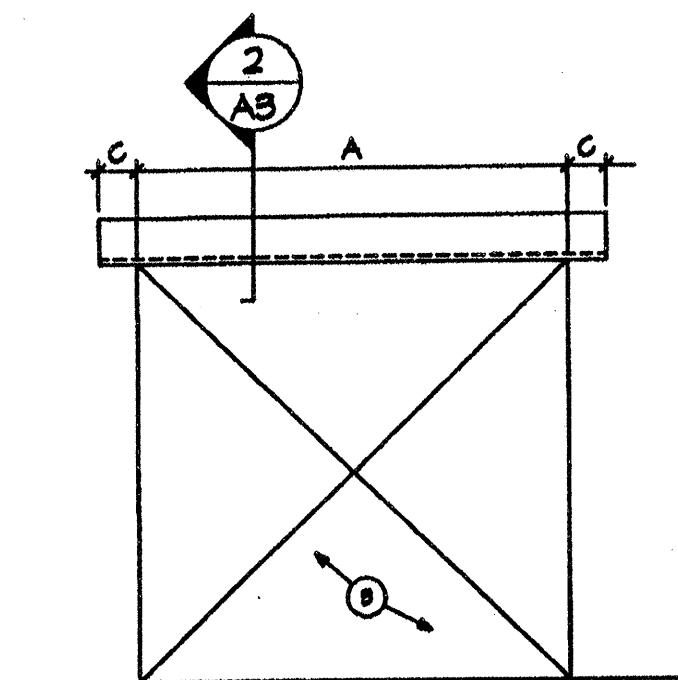
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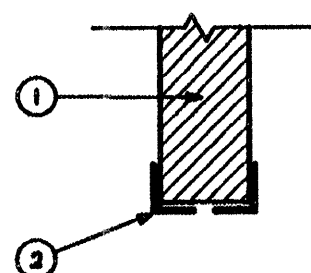
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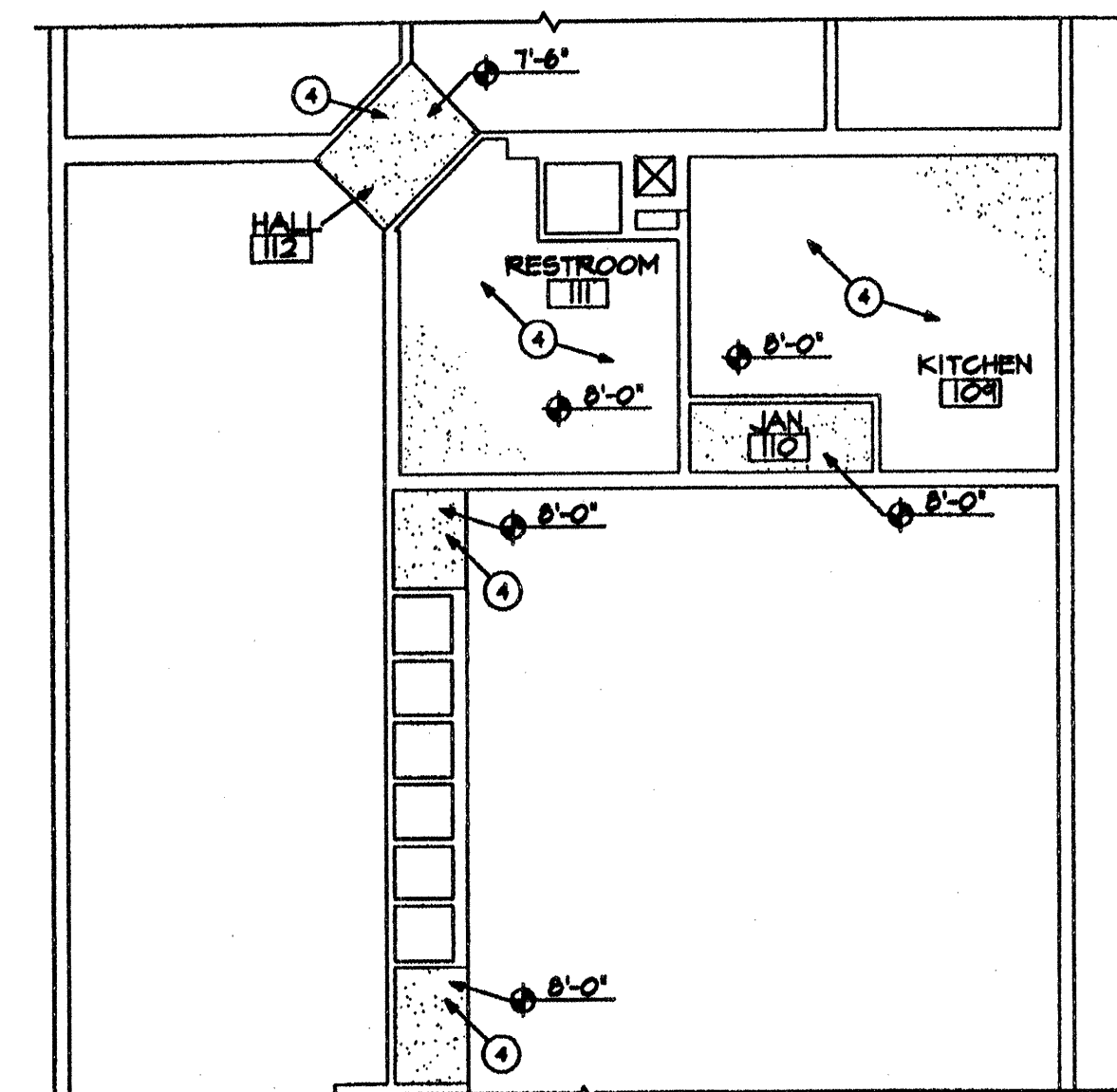


MASONRY STEEL ANGLE SCHEDULE		
A	B	C MIN. SPACING
LESS THAN 4'-0"	ANGLE 4" X 5 1/2" X 1/4"	6"
4'-0" TO 6'-0"	ANGLE 5" X 5 1/2" X 5/8"	12"
6'-0" TO 10'-0"	ANGLE 6" X 5 1/2" X 5/8"	16"

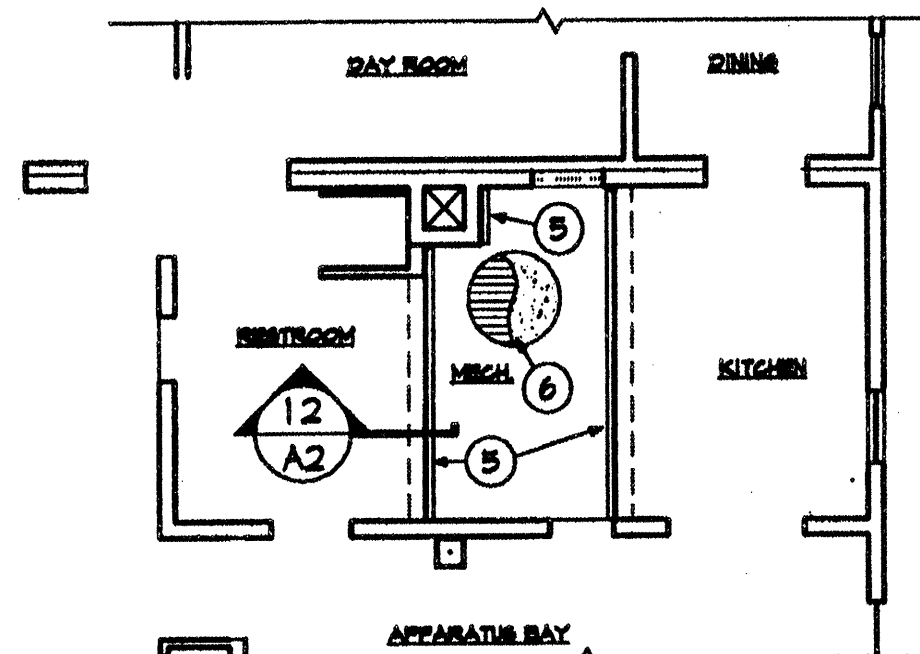
## 1 TYP. NEW OPENING IN EXIST. MASONRY WALL N.T.S.



## 2 LINTEL DETAIL SCALE: 3/4"=1'-0"



## PARTIAL REFLECTED CEILING PLAN SCALE: 1/8"=1'-0"



## STRUCTURAL FLOOR PLAN SCALE: 1/8"=1'-0"

### General Structural Notes

- MATERIALS:**
  - CONCRETE: f'c 3000psi
  - STEEL:
    - Structural Steel: ASTM A56
    - Bolts (Unless Otherwise Noted): ASTM A525
  - MASONRY:
    - Concrete Masonry Units: f'm 1250
    - Grout Strength: f'c 2000 psi
    - Mortar Type: M or S
    - Concrete/Masonry Reinforcing: ASTM A615 GR60
  - WOOD:
    - Framing Lumber: Hem-Fir #2
    - Exposed Lumber: Douglas Fir - Larch #2
    - Plywood: C-D Exterior Grade
    - Sill Plates: Treated Lumber
    - Nails: Common: Fed. Spec. FF-N-1-1 (Exterior Galvanized)
- STEEL FRAMING NOTES:**
  - Structural steel shall be shop fabricated in accordance with AISC "Code of Standard Practice for Steel Buildings and Bridges", latest edition. Welding shall comply with AWS 1.1 "Structural Welding Code".
- WOOD FRAMING NOTES:**
  - Provide studs in continuous lengths without splices. Provide triple studs at corners and wall intersections with nailing surface for edges of finishes. Bore holes not greater than 40% of width of studs, minimum 5/4" from edge of stud. Notch to a depth less than 25% of stud width for bearing walls and 40% for non-bearing walls.
  - Provide double jamb studs for openings less than 4 feet wide, triple jamb studs for openings over 4 feet. Provide two 2 x 6 for headers up to 6'-0", two 2 x 10 for headers up to 10'-0", two 2 x 12 headers greater than 10'-0".
  - Place plywood with face grain perpendicular to supports. Stagger joints and locate over center of framing. Allow 1/16" for expansion and contractions. Unless otherwise called for on the Drawings, support all edges perpendicular to framing by use of lumber blocking and nail 6" on center along all edges and 12" on center at intermediate supports and use 12d nails for 5/4" plywood.
  - Light metal connectors shall be used at all wood to wood framing conditions. Framing anchors and clips shall be a minimum thickness of 18 ga., galvanized, unless otherwise noted on the Drawings. All pre-punched nail holes shall be used with nails as recommended by the manufacturer for the various connectors. Use "Simpson" or an approved equal.
- LIGHT GAUGE METAL STUDS NOTES:**
  - ASTM A611, minimum strength 55 KSI.
  - Finish: Prime paint or galvanized.
  - Section: Depth as noted with 1 5/8" flange and 1/2" flange return lip.

### General Structural Notes

- MISCELLANEOUS NOTES:**
    - Coordinate installation of the required inserts with the general Contractor. See mechanical drawings for supporting structure and inserts.
    - Furnish all necessary structures for mechanical equipment, and all necessary hanging devices and inserts for installation of mechanical equipment.
    - Consult mechanical and electrical drawings for all chases, sleeves, openings, ducts, etc., as required.
- Where conflicts occur between notes on working drawings, the most stringent requirement shall apply.

### Toilet Accessories Schedule

- TILT MIRROR, 24 X 36, 1/4" SHELF & ST. STL. FRAME, EQUAL TO BRADLEY #7405.
- FIXED MIRROR 1/4" ST. STL. FRAME, 24 X 36, EQUAL TO BRADLEY #7405.
- ROBE HOOK, ST. STL. FINISH, EQUAL TO BRADLEY #451.
- GRAB BAR, 36" OR 42" AS SHOWN, 18 GA. TYPE 304 ST. STL. EQUAL TO BRADLEY #512. CONCEALED MOUNTING.
- SURFACE MTD. UTILITY SHELF/BROOM HOLDER, EQUAL TO BRADLEY #4455.
- TOILET TISSUE DISPENSER, RECESSED MOUNTING, EQUAL TO BRADLEY #5104.

### Cabinet Specifications:

All cabinetry to be flush overlay laminate clad (European Style) equal to: Diamond Cabinets, International Series, Hillsboro, Oregon.

#### A. WALL CABINETS & BASE CABINETS (GENERAL):

- END PANELS, TOPS & BOTTOMS, 5/8" laminated with a medium density particleboard core, edgebanded.
- BACKS, 1/2" laminated one side with medium density particleboard core.
- SHELVES, 5/4" laminated two sides with medium density particleboard core, edgebanded two sides.
- DOORS, 5/8" laminated two sides with medium density particleboard core, edgebanded all four sides.
- DRAWER GUIDE, side-mounted, epoxy-coated, glide.
- DRAWER BODY, Vinyl wrapped medium density particleboard with dovetailed construction four sides with medium density particleboard core, edgebanded on all four sides.
- DRAWER FRONTS, Adjustable and removable. 5/8" laminated two sides with medium density particleboard core, edgebanded on all four sides.

#### B. WALL CABINET CONSTRUCTION:

- CASE, Tops, bottoms and sides are dovetailed together. Backs are locked into channels in the sides, top and bottom.
- SHELVES, 5/4" adjustable; held in place by four locking shelf clips.
- HINGES, Attached to mounting plates, which in turn are screwed into the 5mm (5/16") system holes in the end panels.

#### C. BASE CABINET CONSTRUCTION:

- CASE, Bottom panel and three solid wood upper cross rails are dovetailed to end panels. Backs are locked into channels in the sides, bottom and back top rail.
- SHELVES, 5/4" adjustable; held in place by four locking shelf clips.
- DRAWER SUSPENSION, Suspension system is white, epoxy-coated steel. Nylon roller drawer guides are attached to cabinet sides and bottom mounted to drawer.

#### D. HARDWARE:

- PULLS, Polymer or brushed aluminum pull.
- HINGES, European style, 6 way adjustable, hidden hinge with 110° opening.

### Keyed Notes

- EXISTING MASONRY WALL.
- ONE STEEL ANGLE EACH SIDE OF OPENING L.L.V.
- NEW OPENING.
- NEW TEXTURED GYP. BD. CEILING.
- CONTINUOUS 5 1/2" X 5" X 1/4" SHELF ANGLE, BOLTED TO FOUNDATION WALL WITH 1/2 EXPANSION BOLTS @ 24" O.C.
- LONGSPAN METAL DECK, 20 GA., WITH 5" CONCRETE FILL AND #4'S @ 16" O.C., EACH WAY.

### Hardware Schedule

#### MANUFACTURER'S LISTED:

HINGES, STANLEY  
LOCKSETS, DOOR CLOSERS, DEADBOLTS, SARGENT  
KICKPLATES, STOPS, TRIMCO  
WEATHERSTRIPPING, SHOCKSEAL, N6P

#### HN-1: SINGLE DOOR #01, 03, 04, 05

- TO RECEIVE:
- 5 EA. - HINGES FBB174 4.5"X4.5" X US26D
  - 1 EA. - PASSAGE SET 28-65U15-KL X US26D
  - 1 EA. - DOOR CLOSER EN1251-UO X TB4
  - 1 EA. - KICKPLATE 1025-10-X2-LDNXUS2D
  - 1 ROLL - SHOCKSEAL 2525 X 17'
  - 1 EA. - FLOOR STOP M1210ESXUS2D @ DOOR 03
  - 1 EA. - WALL STOP M1216CCSXUS2D @ DOORS 04, 05

#### HN-2: SINGLE DOOR #02

- TO RECEIVE:
- 5 EA. - HINGES FBB174 4.5"X4.5" X US26D
  - 1 EA. - LOCKSET 28-65604-KL X US26D
  - 1 EA. - DOOR CLOSER EN1251-UO X TB4
  - 1 EA. - KICKPLATE 1025-10-X2-LDNXUS2D
  - 1 ROLL - SHOCKSEAL 2525 X 17'

#### HN-3: SINGLE DOOR #06

- TO RECEIVE:
- 5 EA. - HINGES FBB174 4.5"X4.5" X US26D
  - 1 EA. - PASSAGE SET 28-65U15-KL X US26D
  - 1 EA. - KICKPLATE 1025-10-X2-LDNXUS2D
  - 1 ROLL - SHOCKSEAL 2525 X 17'
  - 1 EA. - FLOOR STOP M1210ESXUS2D
  - 1 EA. - WALL STOP M1216CCSXUS2D

#### HN-4: EXISTING DOOR #07, 12

- TO RECEIVE:
- 1 EA. - PRIVACY SET 28-65U65-KL X US26D
  - 1 EA. - WALL STOP M1216CCSXUS2D
  - \* BALANCE OF HARDWARE TO BE RE-USED

#### HN-5: EXISTING DOOR #08

- TO RECEIVE:
- 1 EA. - PASSAGE SET 28-65U15-KL X US26D
  - 1 EA. - WALL STOP M1216CCSXUS2D
  - \* BALANCE OF HARDWARE TO BE RE-USED

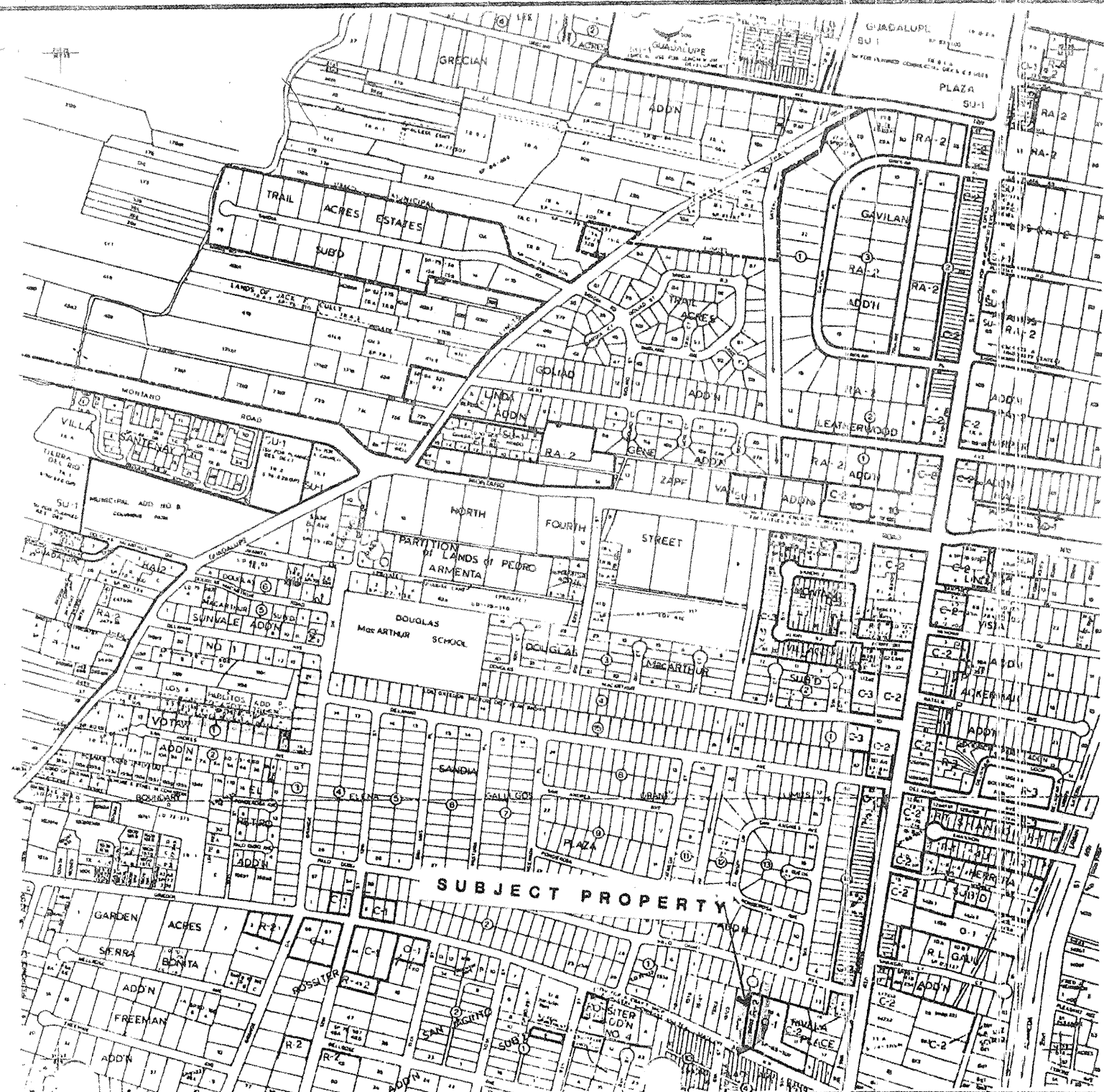
#### HN-6: EXISTING DOOR #09, 10, 13

- TO RECEIVE:
- 1 EA. - LOCKSET 28-65605-KL X US26D
  - 1 EA. - DEADBOLT 485 X US26D
  - 1 EA. - WEATHERSTRIPPING 160 - 36"X84"
  - 1 WALL STOP - M1216CCS X US2D
  - \* BALANCE OF HARDWARE TO BE RE-USED

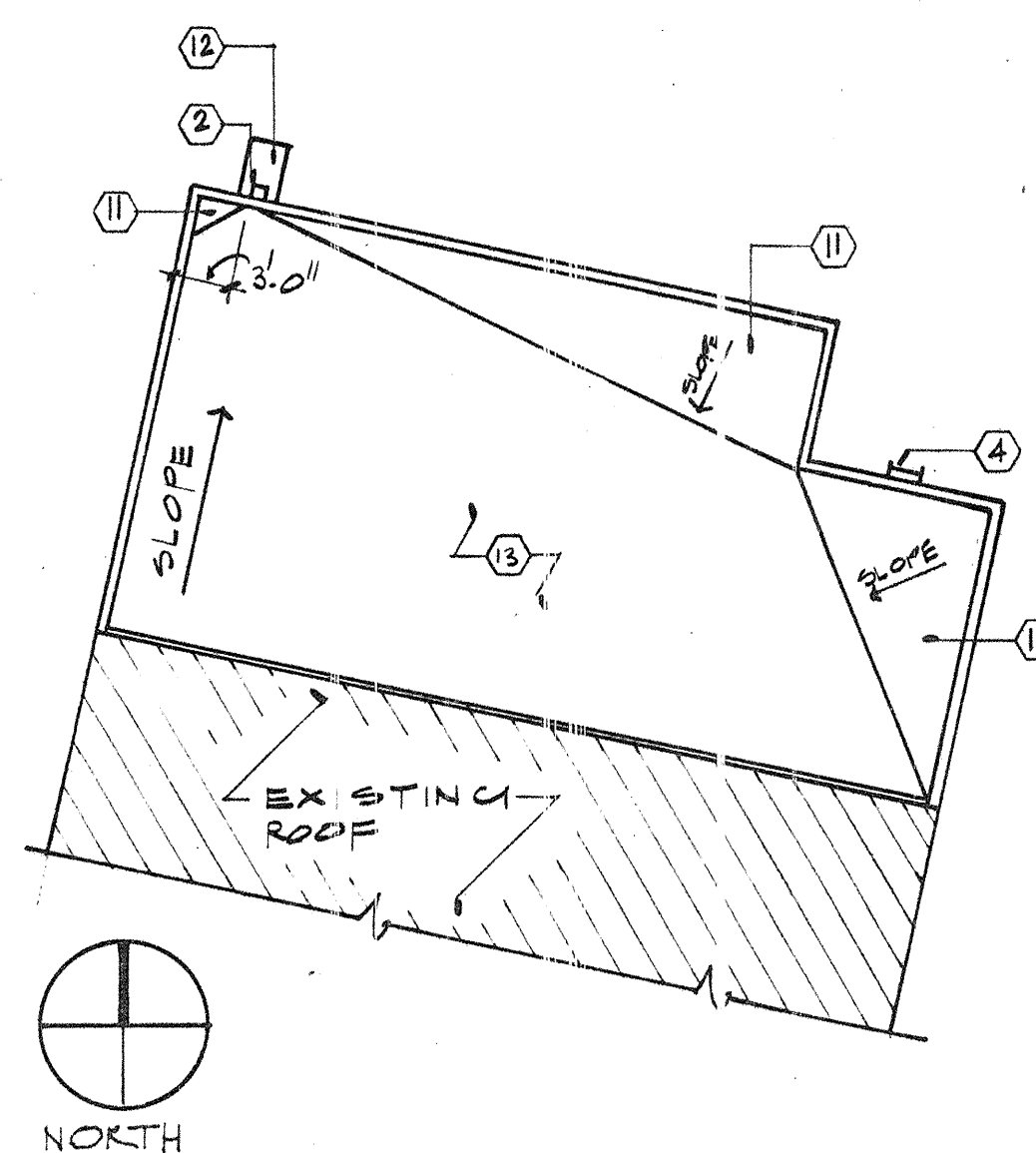
#### HN-7: EXISTING DOOR #11

- TO RECEIVE:
- 1 EA. - PRIVACY SET 28-65U65-KL X US26D
  - 1 EA. - DOOR CLOSER EN1251-UO
  - 1 EA. - KICKPLATE 1025-10" X 2' LDN X US2D
  - 1 ROLL - SHOCKSEAL 2525 X 17'
  - \* BALANCE OF HARDWARE TO BE RE-USED





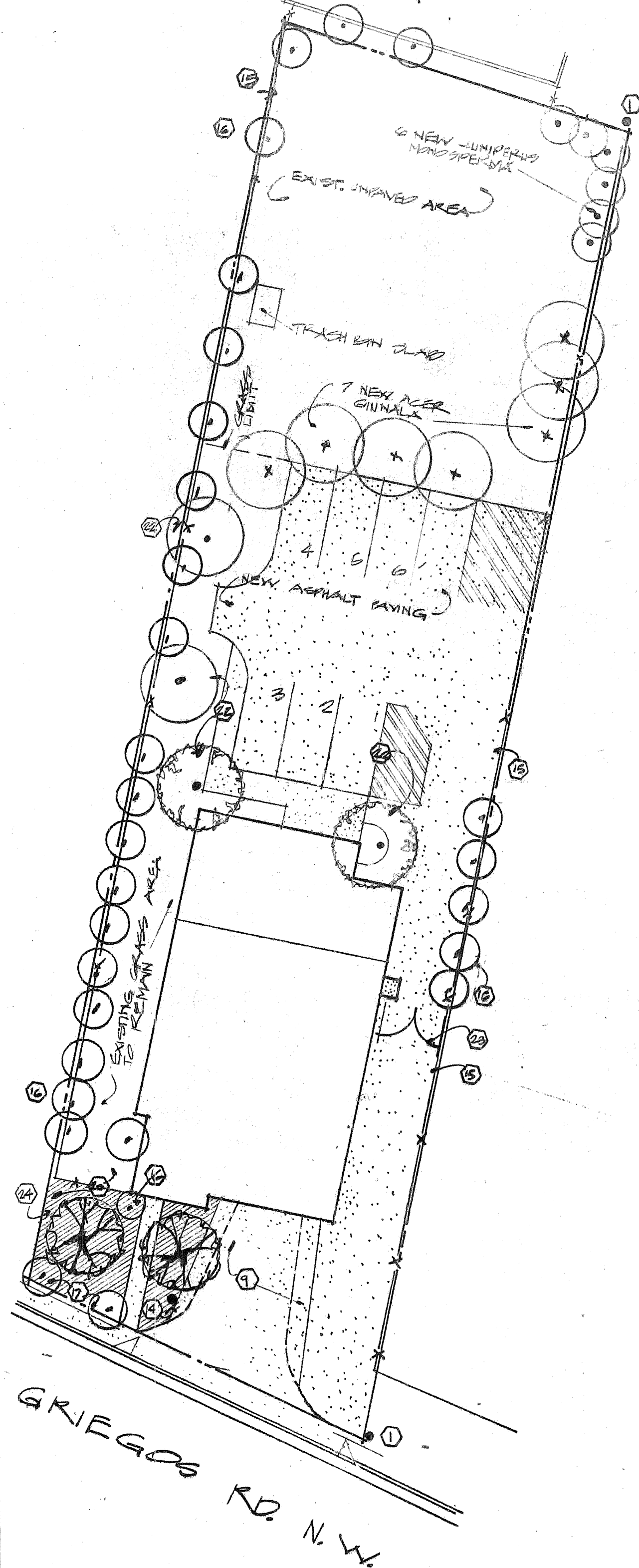
VICINITY MAP



ROOF PLAN 1" = 10'-0"

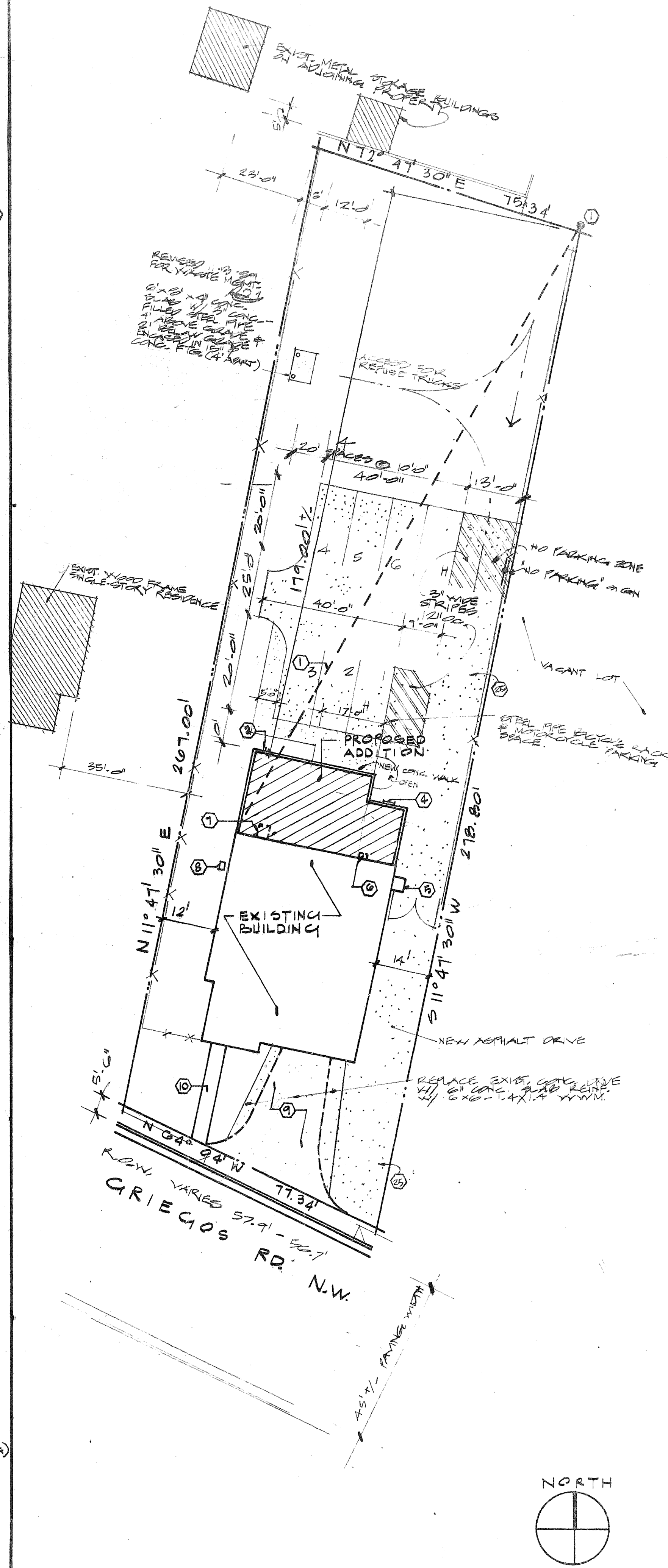
LANDSCAPING MAINTENANCE POLICY:  
ALL LANDSCAPING TO BE REPLANTED & MAINTAINED BY THE FIRE DEPARTMENT.  
IRRIGATION SYSTEM TO BE SELECTED BY FIRE DEPARTMENT.

NOTE: HYDROLOGY, GRADING, & DRAINAGE PLAN APPROVED NOV 1989



LANDSCAPE CALCULATIONS:  
SHRUBS/TREES 3200 S.F.  
GRASS 3200 S.F.  
TOTAL LANDSCAPE 6400 S.F.  
RATIO: 3,730 : 29,469 = 12.2% (LANDSCAPING)  
3,500 : 29,469 = 11.9% (BUILDING)  
7,230 : 29,469 = 24.5% (BLDG. + LANDSCAPING)  
GRAPHIC SCALE  
1" = 20'-0"

LANDSCAPING PLAN 1" = 20'-0"



PLOT PLAN 1" = 20'-0"

FILE NO. Z-89-44

I certify that this Site Development Plan has been prepared in accordance with the Environmental Planning Commission's requirements and that no conditions were required to be met.

Planning Director

Approved as to Requirements:

City Engineer - AMAFCA

Water Resources

Parks and Recreation

Traffic

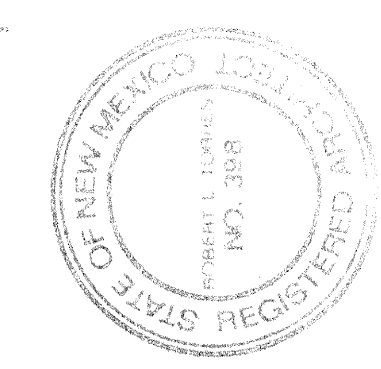
#### PROJECT DATA

ADDRESS: 523 GRIEGOS ROAD NW  
LEGAL DESCRIPTION: LOT 150B1, BLOCK 1, SUBDIVISION 1, ALBUQUERQUE, NEW MEXICO  
OWNER: CITY OF ALBUQUERQUE FIRE DEPARTMENT  
ADDRESS: 724 SILVER AVE SW ALBUQUERQUE, NEW MEXICO 87102  
SEISMIC ZONE: 2  
TYPE OF CONSTRUCTION: VN  
AREA: EXISTING BUILDING = 2498 SF  
PROPOSED ADDITION:  
a) HEATED = 862 SF  
b) PORCH = 140 SF  
TOTAL BUILDING AREA = 3500 SF  
OCCUPANCY GROUP: B-2  
OCCUPANT LOAD: 33 (UBC) (ACTUAL = 3 STAFF VEH. EMP.)  
SOIL COMPACTION: EXCAVATED FOOTING SURFACE 95% OF MAXIMUM DRY DENSITY.  
SLAB EXCAVATION & FILL, 90% OF MAXIMUM DRY DENSITY.  
CONCRETE STRENGTH: f'c = 3000 psi @ 28 days  
WOOD PROPERTIES: ROOF JOISTS = PONDEROSA PINE #1  
WALLS = PONDEROSA PINE STUD GRADE  
Fb = 975 min.  
ROOF LOAD: LIVE LOAD = 20 psf  
DEAD LOAD = 18 psf  
WIND LOAD: UBC 23.4 psf  
ALBUQUERQUE ZONE ATLAS MAP: F-14-Z

#### KEYED NOTES:

- Existing overhead power line.
- New head and downspout.
- 3' x 3' conc. pad - PASTER
- Steel ladder to roof.
- Existing concrete pad to remain.
- Existing electrical riser to be replaced.
- Existing evaporative cooler to be replaced.
- Existing gas meter to remain.
- Existing driveway to be replaced.
- Existing concrete sidewalk.
- Crickett. - SEE ROOF EXAMINATION
- 24' x 36' concrete splash blank.
- Gravel surface built-up roof.
- FLAGSTONE
- 6' TALL CHAIN LINK FENCE
- PERIMETER SHEDS
- 2 SMALL JIMPERS
- 2 ARIZONA ARB
- EXIST. GRASS
- EXIST. GRASS
- NEW GRASS
- NEW GRASS
- EXIST. GRASS
- NEW GRASS





ROBERT L. TORRES & ASSOCIATES  
1801 Louisiana Boulevard Northwest Albuquerque, New Mexico 87102 Tel. 505-243-3764  
2225 CANZANZA N.E., SUITE 207 ALBUQUERQUE, N.M. 87107

TOPOGRAPHY MAP

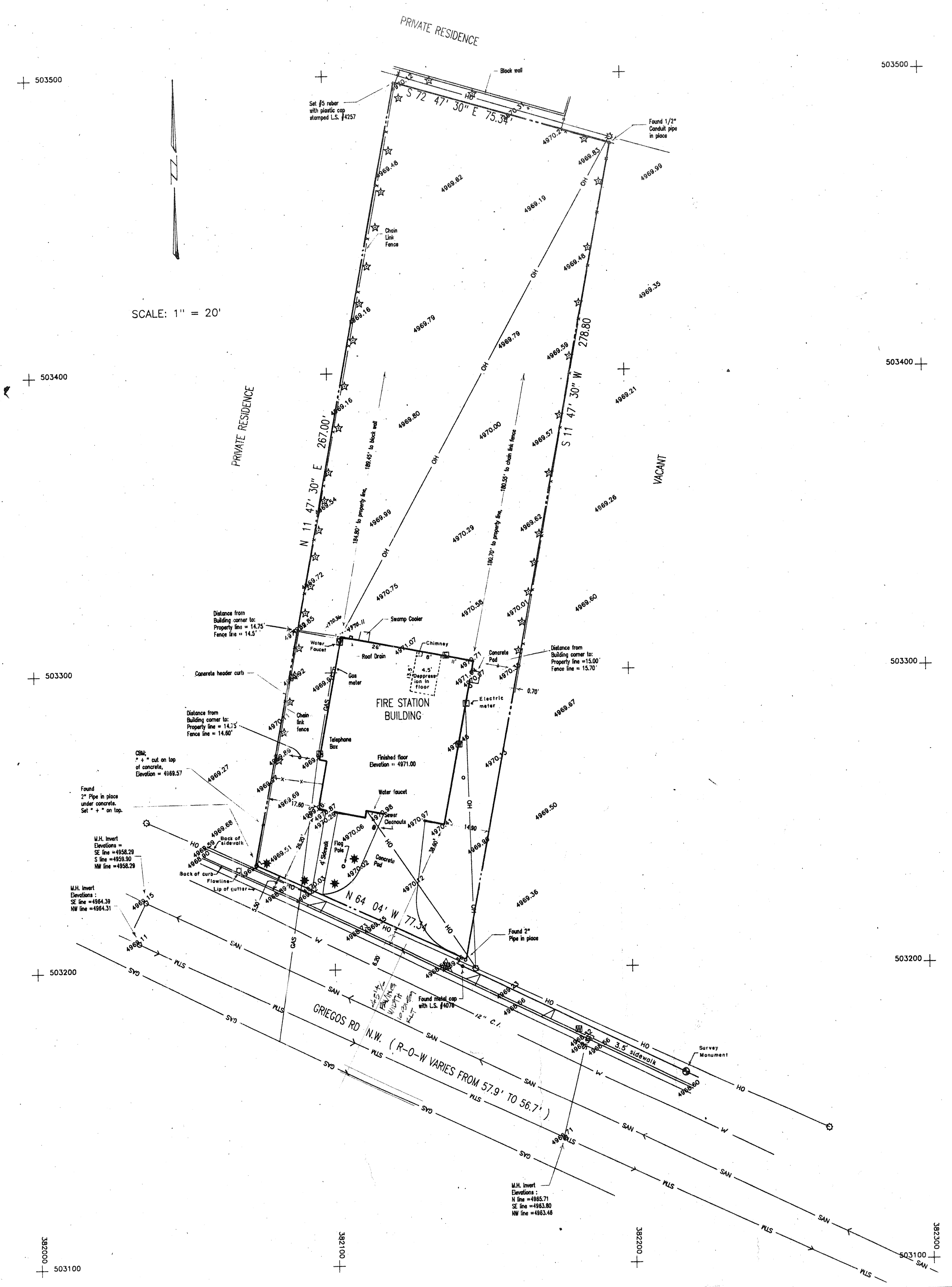
FIRE STATION NO. 6 ADDITION  
ALBUQUERQUE, NEW MEXICO

# FIRE STATION #6

523 GRIEGOS RD. N.W.

DESCRIBED AS:  
THE WESTERLY PORTION OF  
TRACT 150-B OF  
THE MIDDLE RIO GRANDE CONSERVANCY  
DISTRICT SURVEY MAP NO. 32.

COMPILED BY THE  
CITY OF ALBUQUERQUE  
SURVEY SECTION  
FEBRUARY 1986



- LEGEND:
- Sign Post
  - Manhole
  - ⊙ Storm Drain Inlet
  - ⊗ Water Valve
  - ⊠ Electric Riser
  - ⊡ Telephone Riser
  - ⊢ Gas Riser
  - ⊣ Water Riser
  - ⊤ Utility Pole With Light
  - ⊥ Utility Pole
  - ⊦ Fire Hydrant
  - ⊧ Deciduous Tree
  - ⊨ Coniferous Tree
  - ⊩ Shrub
  - OH— Overhead Power Line
  - STM— Storm Sewer Line
  - SAN— Sanitary Sewer Line
  - GAS— Gas Line
  - x— Chain Link Fence
  - W— Water Line
  - Property Line

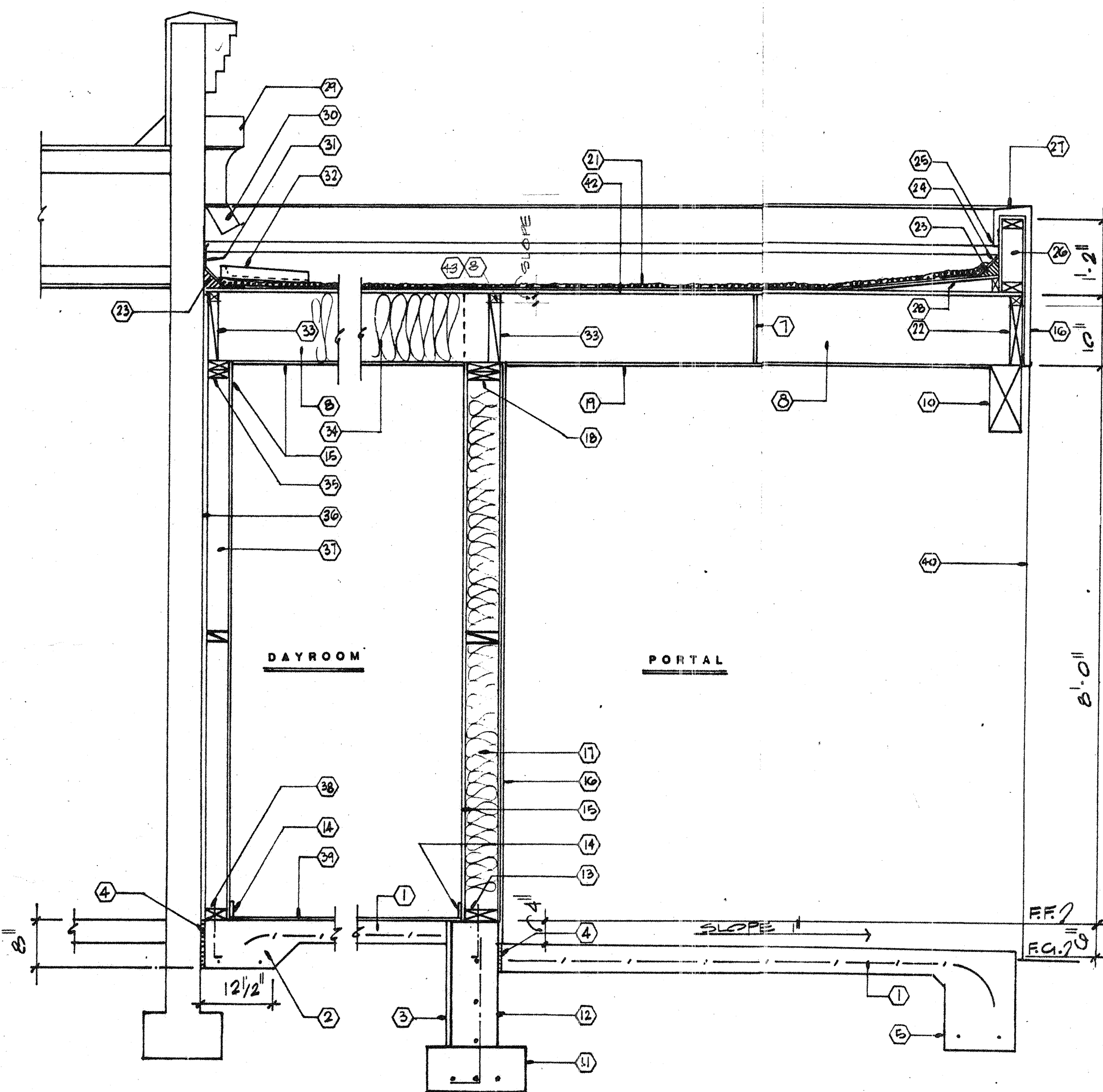
NOTES:  
All curb and gutter are standard as defined by the current contract documents for Public Works Projects.  
Elevations are based on the NAVD 1929.  
Distances are ground distances; bearings are based on the recorded Warranty Deed filed in the Bernalillo County Clerk's office Oct. 17, 1986 in Vol. D-816, Folio 9.  
The total area of the property described above is 20,469 sq. ft.  
The location of the spot elevation is at the decimal point.  
I, LaMonte J. Urban, Chief City Surveyor for the City of Albuquerque New Mexico do hereby certify that to the best of my knowledge and belief the foregoing topographic map is true and correct and that the property lines, utilities and topographic features are as delineated hereon. This topographic map was compiled from a combination of field and record data.

LaMonte J. Urban  
N.M. P.L.S. #4257

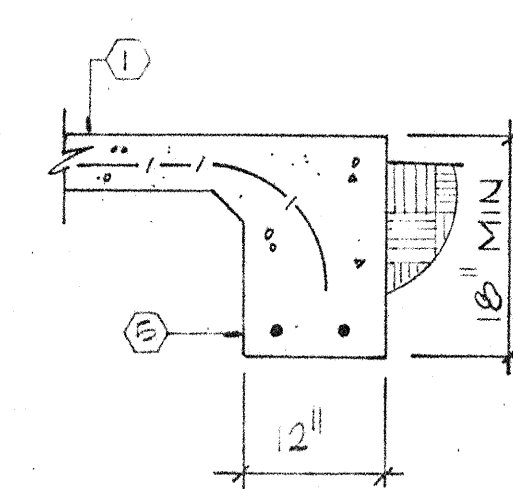
DATE



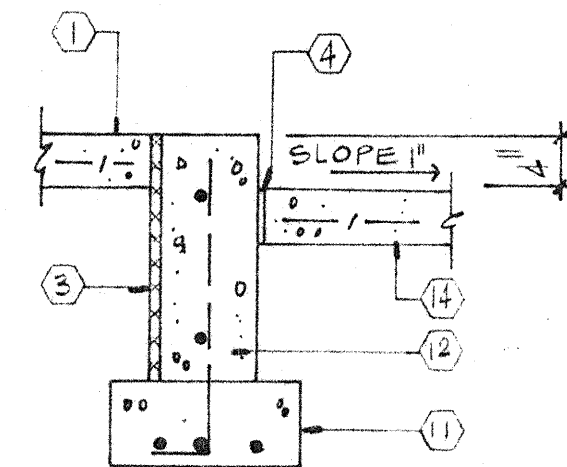
EXISTING CONSTRUCTION NEW CONSTRUCTION



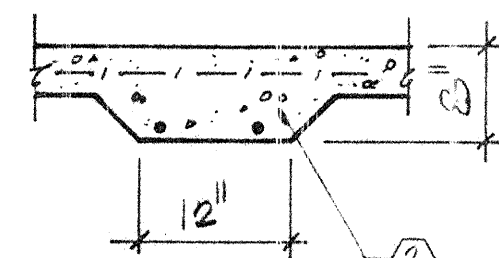
BUILDING SECTION



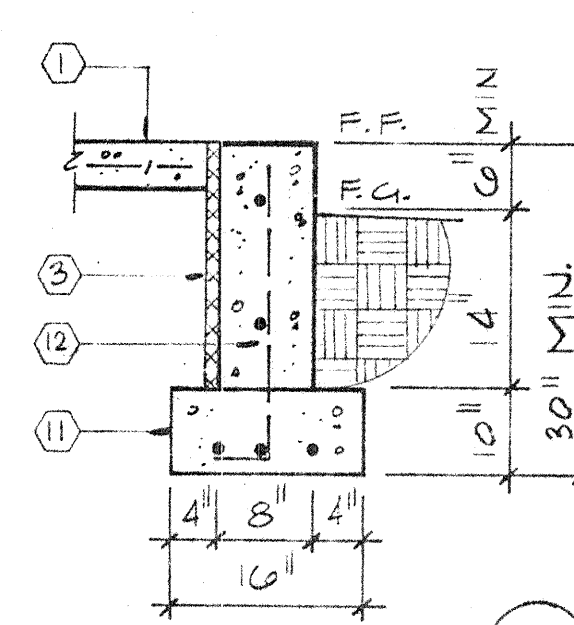
INTEGRAL FOOTING



FTG. AT PORTAL



THICKENED SLAB

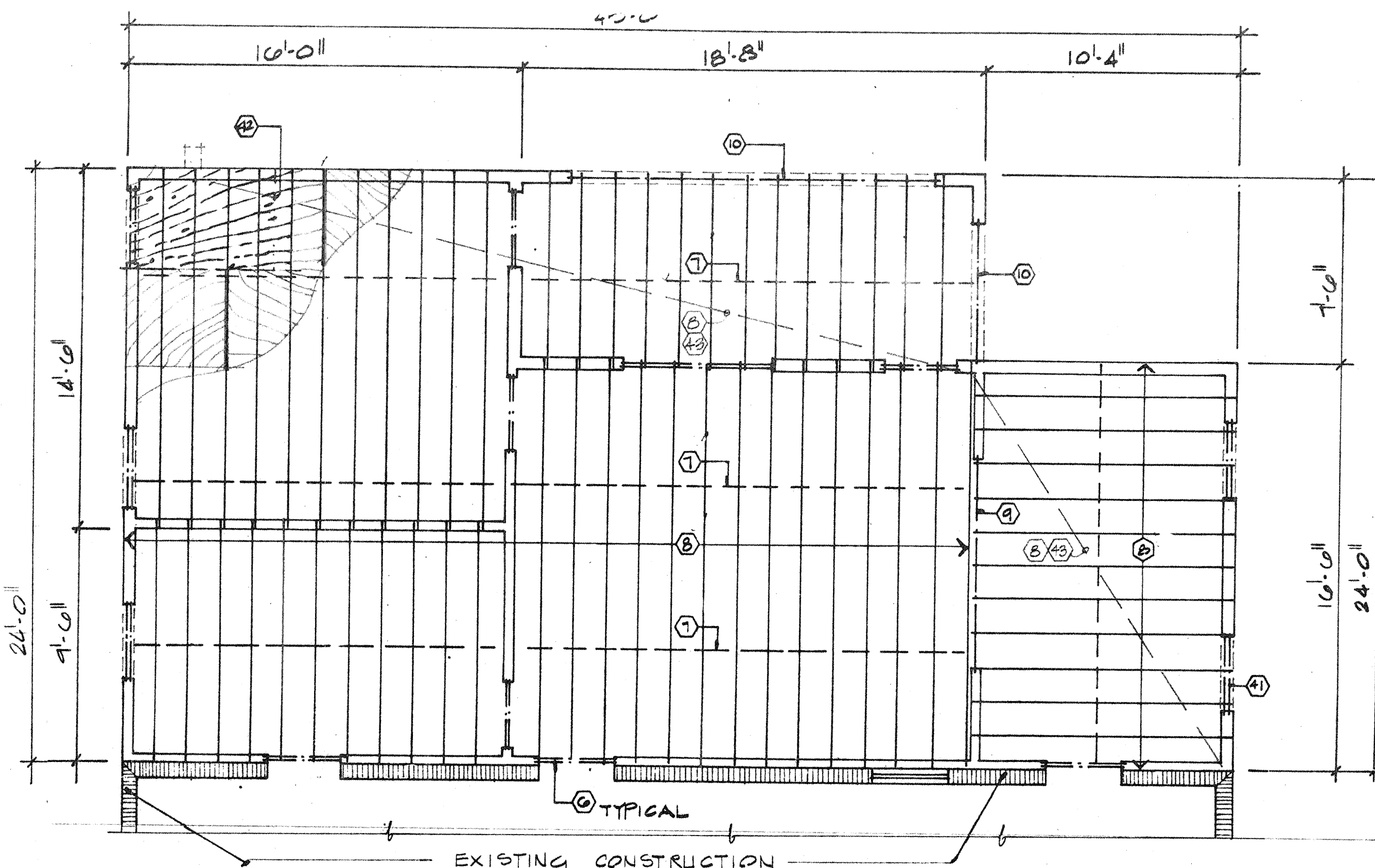


SPREAD FOOTING, TYP

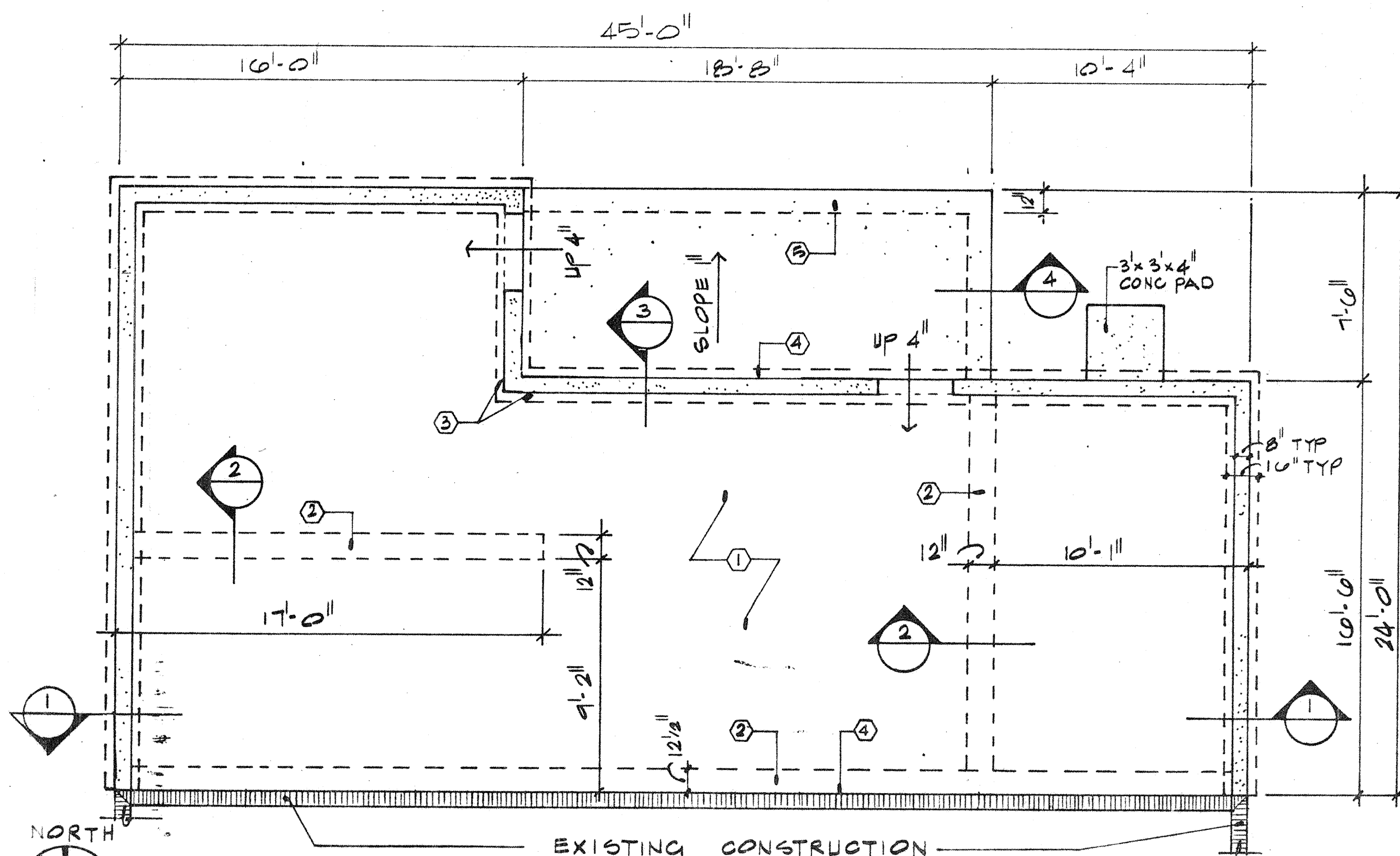
FOOTING DETAILS

SEE ALTERNATE FOOTING DETAIL 3-A-4

3/4" = 1'-0"



ROOF FRAMING PLAN

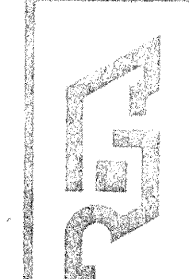


FOUNDATION PLAN

1/4" = 1'-0"

KEYED NOTES

- 4" concrete slab w/6 x 6 - 1.4/1.4 min.
- Thickened slab w/2-#4.
- 1" rigid perimeter insulation.
- 1/2" expansion joint.
- Integral footing w/2-#4.
- 2 - 2 x 12 load bearing headers w/wood spacer.
- metal cross bridging.
- 2 x 12 ceiling joists at 16" o.c. Rip from high end to a 10" low end for roof drainage.
- 4 x 12 wood header #2 Fir FD=1150 min. stained.
- 6 x 12 wood header #2 Fir FD=1150 min. stained.
- Concrete footing w/8 - #4.
- Concrete stem w/4 vert. at 16" o.c. Alt. bearing 4" horiz. end tie.
- 2 x 6 plate w/1/2" # x 10" anchor bolts at 4'-0" o.c.
- Wood base. Stained.
- 5/8" gypsum board Type "X".
- 1" stucco on 17 ga. mesh on 15 # felt paper on 1/2" celotex sheathing w/1/2" CDX plywood, sheathing as shown on floor plan.
- 2 x 6 studs at 16" o.c. w/1-19 butt insulation.
- 2 - 2 x 6 plates.
- 5/8" exterior grade gypsum board painted.
- 5/8" exterior grade gypsum board painted.
- 3-ply gravel surface built-up roofing.
- 2 x 10 header joist.
- Fiber cant strip.
- Flashing and counter-flashing w/ felt (typical).
- Stucco stop.
- Parapet wall. 2 x 4's at 16" o.c. w/plate top and bottom.
- Slope stucco at parapet.
- Cricket. See Roof Plan.
- Existing G.I. leader head.
- Remove existing down-spout to 8" above new roof. Provide new down-spout nozzle.
- Surface mounted flashing w/neo prene steel washers. Fill w/sealant.
- New 24" x 36" concrete splash block. Slope to drain.
- 2 x 12 blocking.
- R-30 insulation.
- 2 - 2 x 4 plates.
- 1/2" plywood sheathing.
- 2 x 4 studs at 16" o.c.
- 2 x 4 plate w/1/2" # x 10" anchor bolts at 4'-0" o.c.
- Flooring as scheduled.
- Line of wall beyond.
- 8 - 2x12 HEADER w/ 1/2" SPACER (TYPICAL)
- 5/8" APA RATED 16/16 SHEATHING w/10 d NAILS @ 6" o.c. AT SUPPORTED EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS. (USE "H" CLIPS PER APA)
- SLOPE TO CANALS - FROM CRICKET - w/ RIPPED 2 x 12 JOISTS FALL TO TOP OF 2x12 JOIST FOR MIN. SLOPE OF 1/4" / 1'-0"



ROBERT L. TORRES & ASSOCIATES  
Architects  
Albuquerque, New Mexico  
3225 CANDELARIA NE. SUITE B  
87107

FOUNDATION & ROOF FRAMING PLANS  
FOOTING DETAILS & BUILDING SECTION

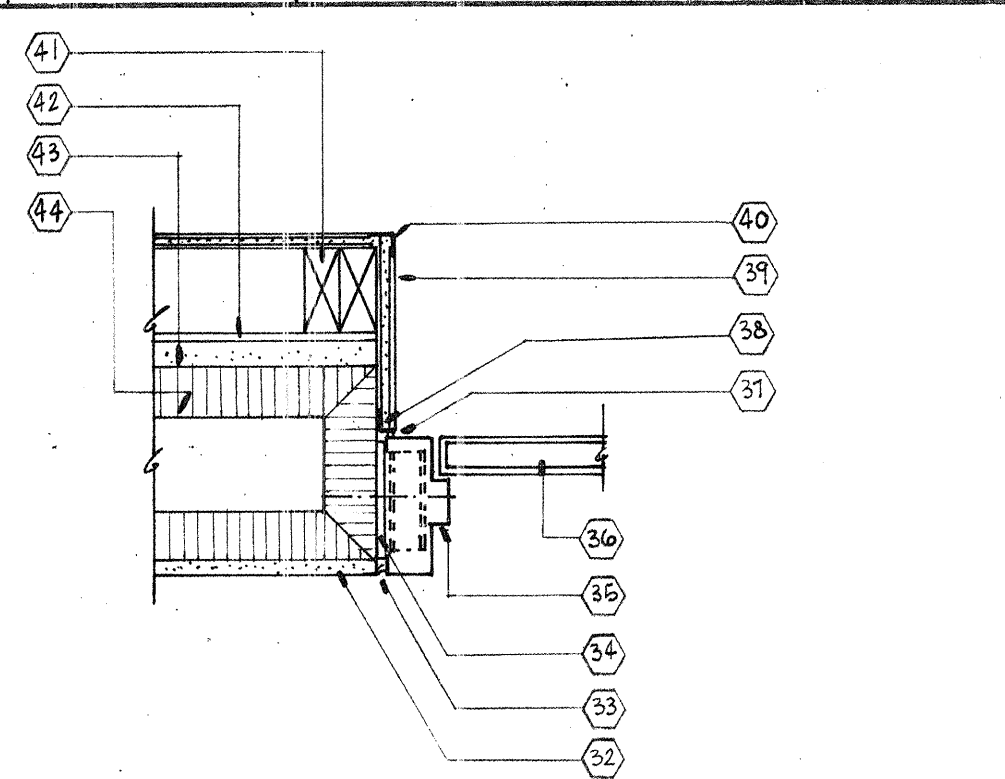
FIRE STATION NO. 6 ADDITION  
ALBUQUERQUE, NEW MEXICO



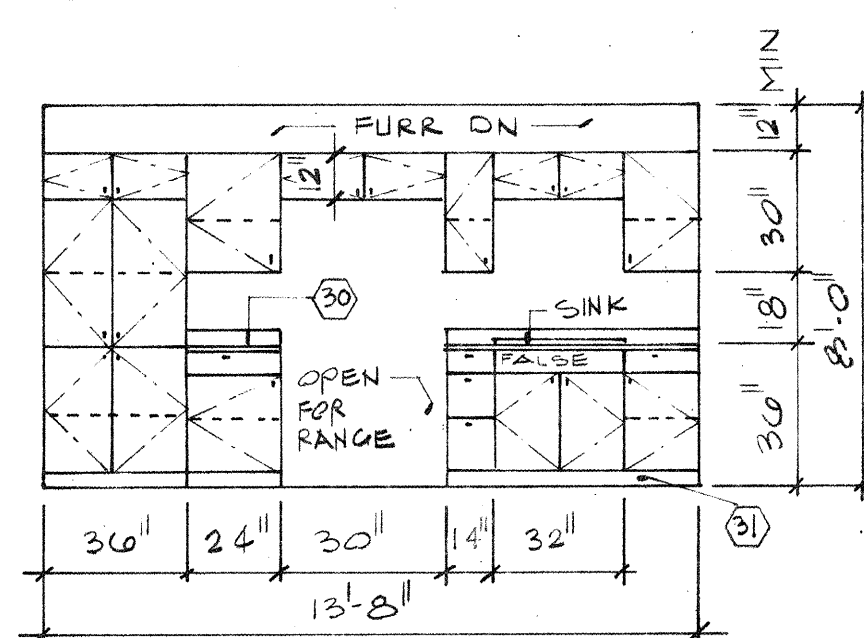
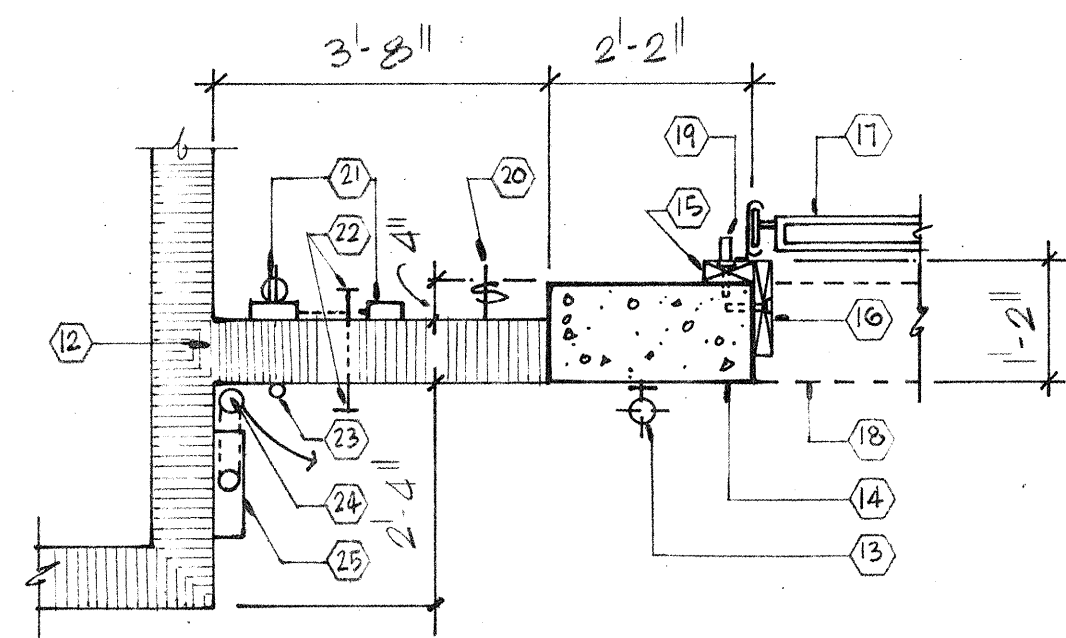
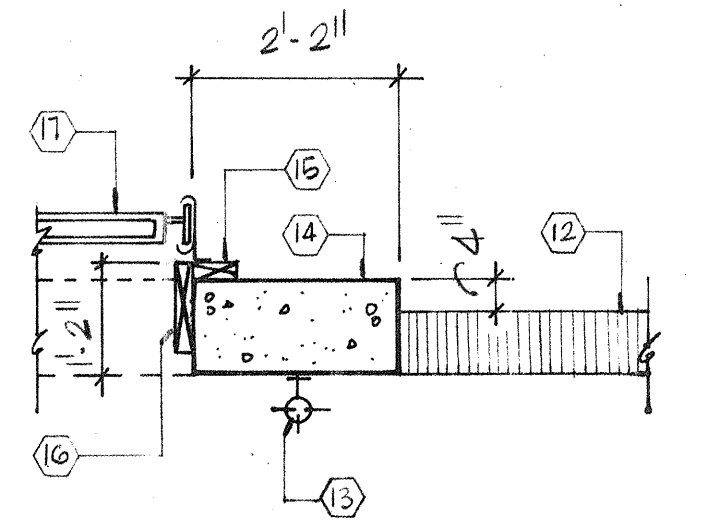
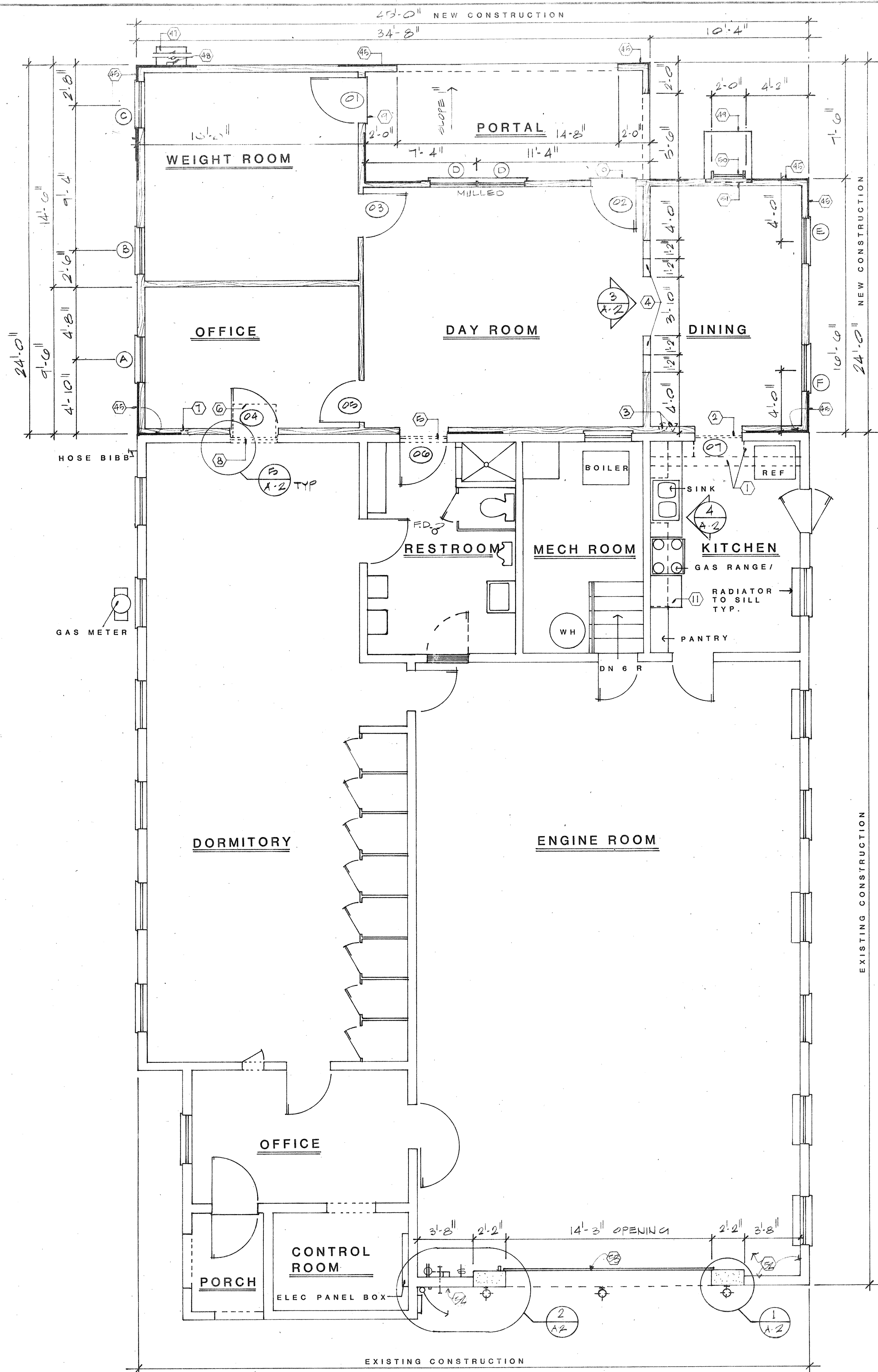
NUMBER	SIZE	TYPE	LOCK	COMMENTS
01	3'-0" x 6'-8" x 1 3/4"	SOLID CORE	ENTRY D BOLT	PRIME AND STAIN
02	3'-0" x 6'-8" x 1 3/4"	SOLID CORE	ENTRY D BOLT	
03	3'-0" x 6'-8" x 1 3/8"	HOLLOW CORE	PASSAGE	
04	2'-8" x 6'-8" x 1 3/8"			
05	2'-8" x 6'-8" x 1 3/8"			
06	2'-8" x 6'-8" x 1 3/8"			
07	3'-0" x 6'-8"			CASED OPENING

MARK	SIZE	TYPE	
A	3050	SINGLE HUNG	ALUMINUM, BRONZE FINISH, INSUL. GLASS, BY "ALenco"
B	3050		
C	3050		
D	2-3050		DOUBLE WINDOWS, MILLED
E	3050		
F	3050	↓	↓

ROOM NAME	WALLS	CEILING	FLOOR	BASE	COMMENTS
WEIGHT ROOM	GYP BD, PAINTED	GYP BD, PAINTED	CARPET	WOOD, STAINED	
OFFICE			VAT		
DAY ROOM			VAT		
DINING	↓	↓	CARPET	↓	
PORTAL	STUCCO	↓	CONC	↓	F/B <sup>1</sup> EXTERIOR GRADE GYP BD @ CEILING

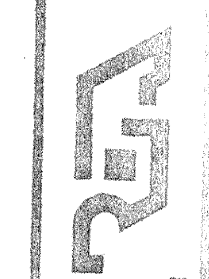


5


$$\|1/4\| = \|1 - 0\|$$

$$\|1/4\| = \|1 - 0\|$$

$$\|1/2\| = \|1 - 0\|$$
$$12 = 1 - 0 \quad (1)$$

$$1/4'' = 1 - 0''$$

1. Remove existing base and overhead cabinets, plumbing, double sink and counter top telephone and electric outlet.
2. Remove existing 3'-0" wide window. Remove existing wall below opening. Frame and trim for new 3'-0" wide cascd opening.
3. Remove and relocate existing spotlight and telephone wire.
4. Stepped wall. See 1/A
5. Remove existing 3'-0" wide window. Frame and trim for new 2'-8" wide door.
6. Remove existing window mounted evaporative cooler.
7. Remove existing downspout to 8' above new roof. Provide new downspout nozzle. See 5/A
8. Remove existing 3'-0" wide window. Frame and trim for new 2'-8" wide door.
9. Metal threshold
10. Metal threshold
11. New kitchen base and overhead cabinets.
12. Existing 8" CMU wall.
13. Existing wall mounted light fixture.
14. Existing concrete column.
15. Existing 2 x 6 wood jamb w/bolts at 30" o.c.
16. Existing 2 x 10 wood jamb w/bolts at 30" o.c.
17. Existing 14'-12" overhead fire engine room door.
18. Line of concrete header.
19. Existing Allen/Bradley Electric Door control button.
20. Existing single pole switch.
21. Existing duplex outlet and timer un 48".
22. Existing hose bibb.
23. 1/2" Ø conduit up to paralet.
24. Existing 2 1/2" Ø electric conduit.
25. Existing electric panel box (wall mounted).
26. Wood base. Stained.
27. Painted gypsum board.
28. 2 x 6 sanded smooth and stained.
29. 4 x 12 exposed beam. Stained.
30. Plastic laminate countertop and backsplash.
31. 4" x 4" toe space.
32. Existing interior finish. Patch as required to match existing.
33. Caulk
34. Shim
35. 2" x 6" hollow metal frame. Painted.
36. New door as scheduled.
37. Caulk
38. L Metal
39. 5/8" gypsum board painted.
40. L Metal
41. 2 - 2 x 4 studs at jamb.
42. 1/2" plywood sheathing.
43. Existing stucco exterior.
44. Existing 8" wall.
45. 1/2" x 4'-0" wide by full height CDX plywood panel w/8d nails at 12" o.c. at intermediate framing and at 6' o.c. along all supported edges.
46. Remove existing 2'-8" wide door and frame. Block-in and finish to match existing.
47. 24" x 36" concrete splash block.
48. S. I. Leader and downspout.
49. 3'-0" x 3'-0" x 4" concrete pad.
50. 24" wide steel ladder to roof. See Detail
51. Double wood blocking.
52. REMOVE BRACING OF EXISTING WALL, CEILING & FLOOR DURING RECONSTRUCTION. BRACE 8" O.C. G-IRG GANGE DOWN KEFACEVER.
53. NEW STEEL SECTIONAL ROOF. W/NOOKS THREA-  
NCE IRON RODS W/LOCK WASHERS GALVANIZED GAL-  
VANIZED STEEL. SEE DETAILS ON P. 45





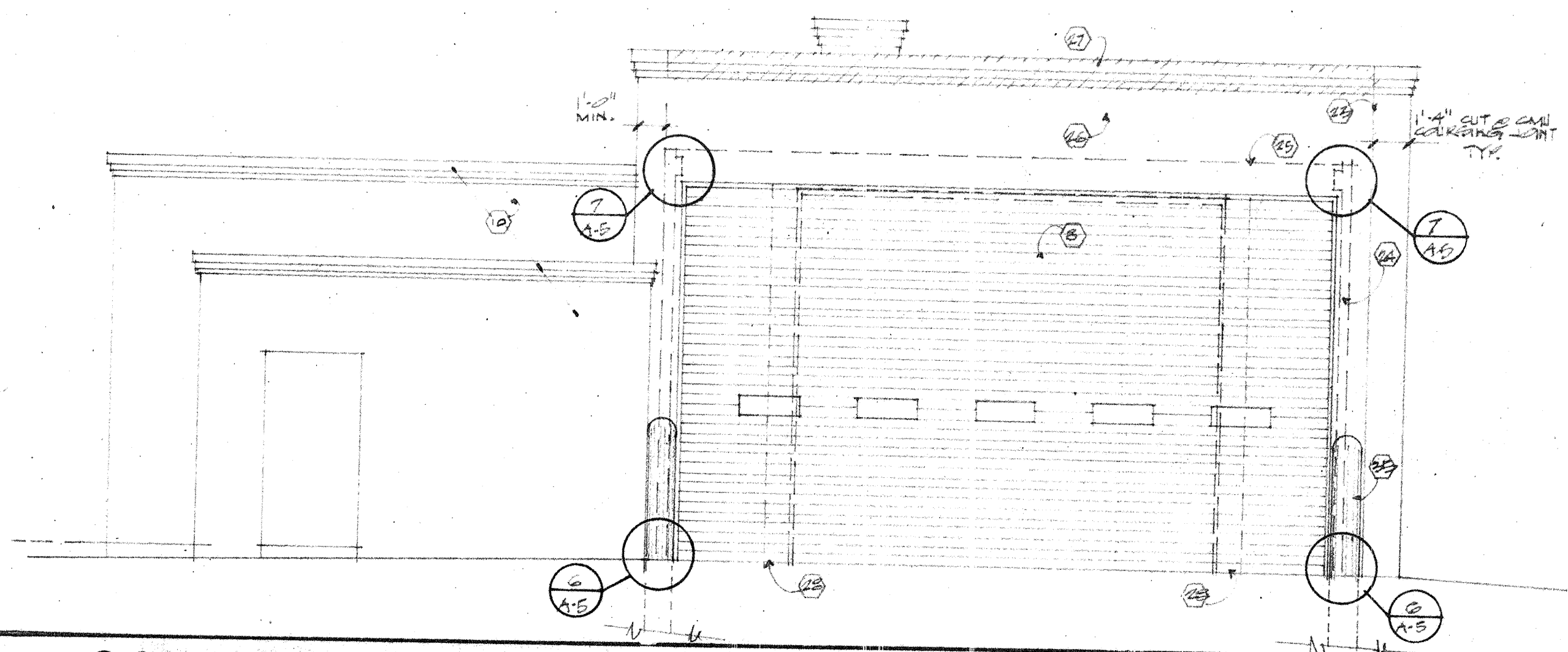
ROBERT L. TORRES & ASSOCIATES  
Architects, New Mexico  
3325 Candelaria N.E. Suite 200  
Albuquerque, NM 87107  
505-263-0700

EXTERIOR ELEVATIONS

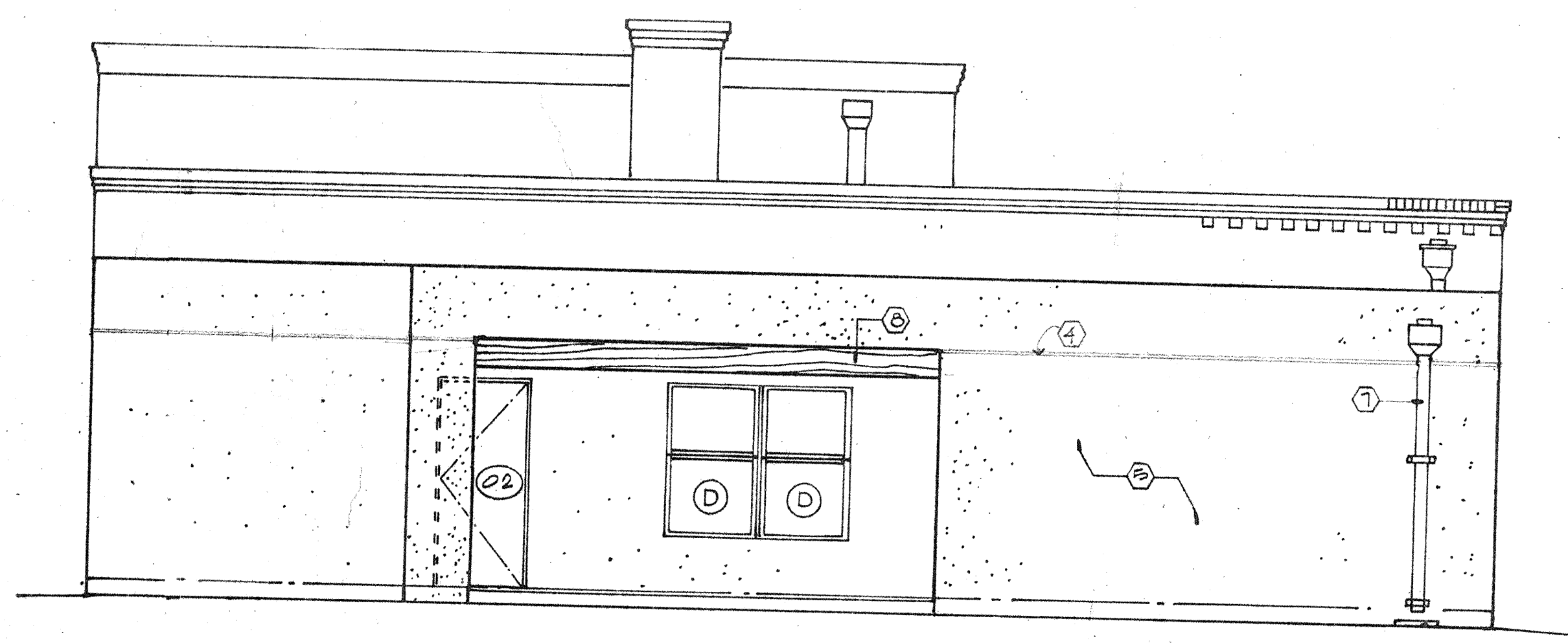
FIRE STATION NO. 6 ADDITION  
ALBUQUERQUE, NEW MEXICO

KEYED NOTES

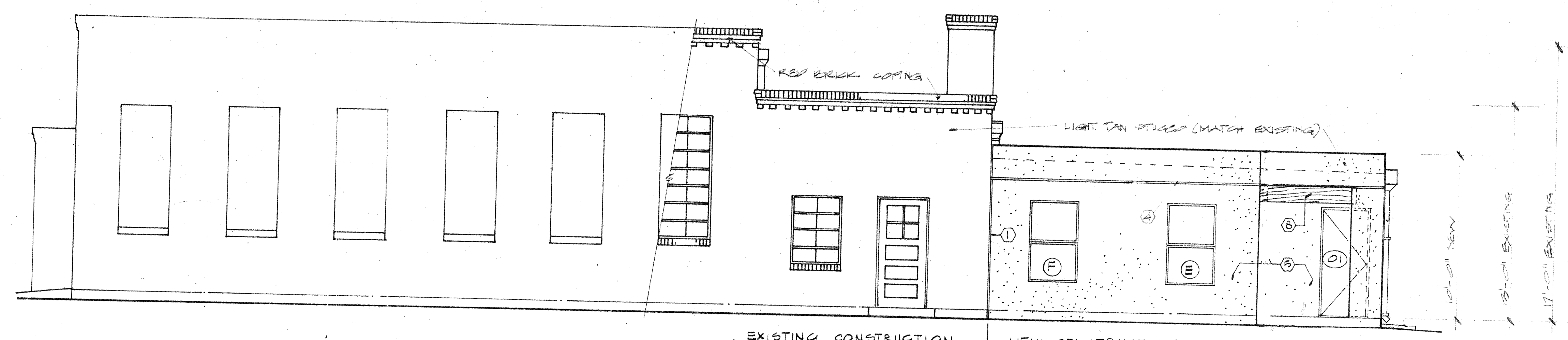
- 1 EXIST. LT. @ NEW/EXIST. CONSTRUCTION
- 2 NEW/EXIST. DOWNSPOUT LEADER
- 3 SLOPE NOT V.M./L.S.
- 4 STUCCO EXP. JOINT
- 5 STUCCO MATCH EXIST. LIGHT TAN COLOR
- 6 CONC. MATCHWORK
- 7 NEW HANGERS, T & LEAVES, ANCHOR B.O.G.
- 8 EXP. WOOD BEAM - STAIR
- 9 SEE ADDITIONAL NOTES ON SHEET A-2 WHICH ALSO APPLIES (SOUTH ELEVATION)  
8, 16, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36
- 10 EXIST. STUCCO & BRICK COPING



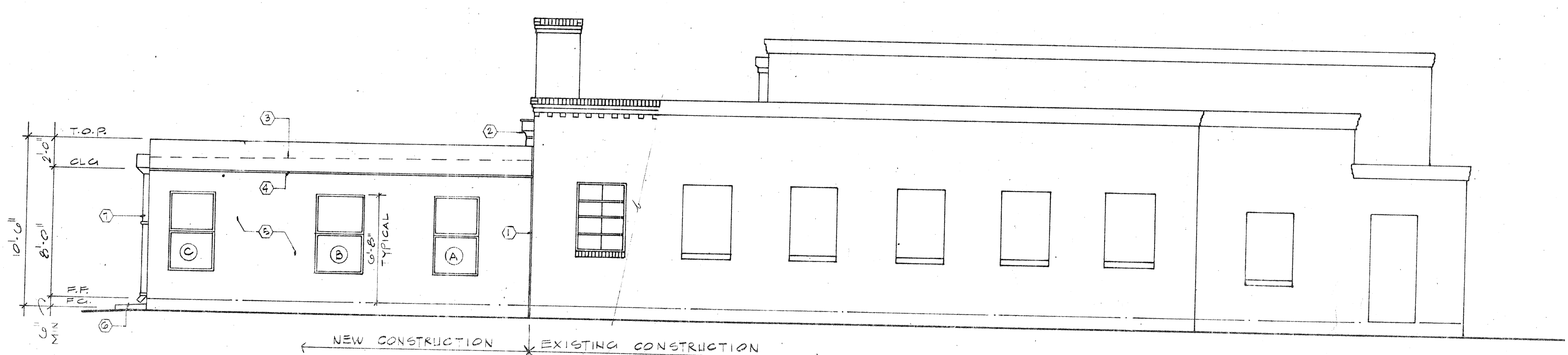
SOUTH ELEVATION  
1/4" = 1'-0"



NORTH ELEVATION  
1/4" = 1'-0"



EAST ELEVATION  
1/4" = 1'-0"

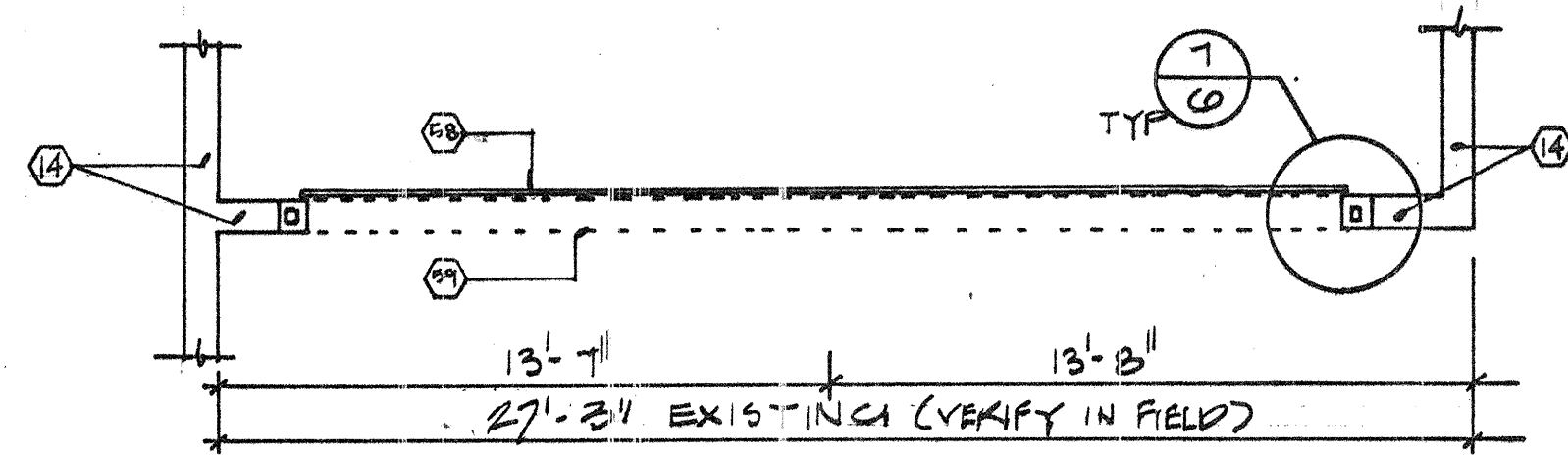


WEST ELEVATION  
1/4" = 1'-0"



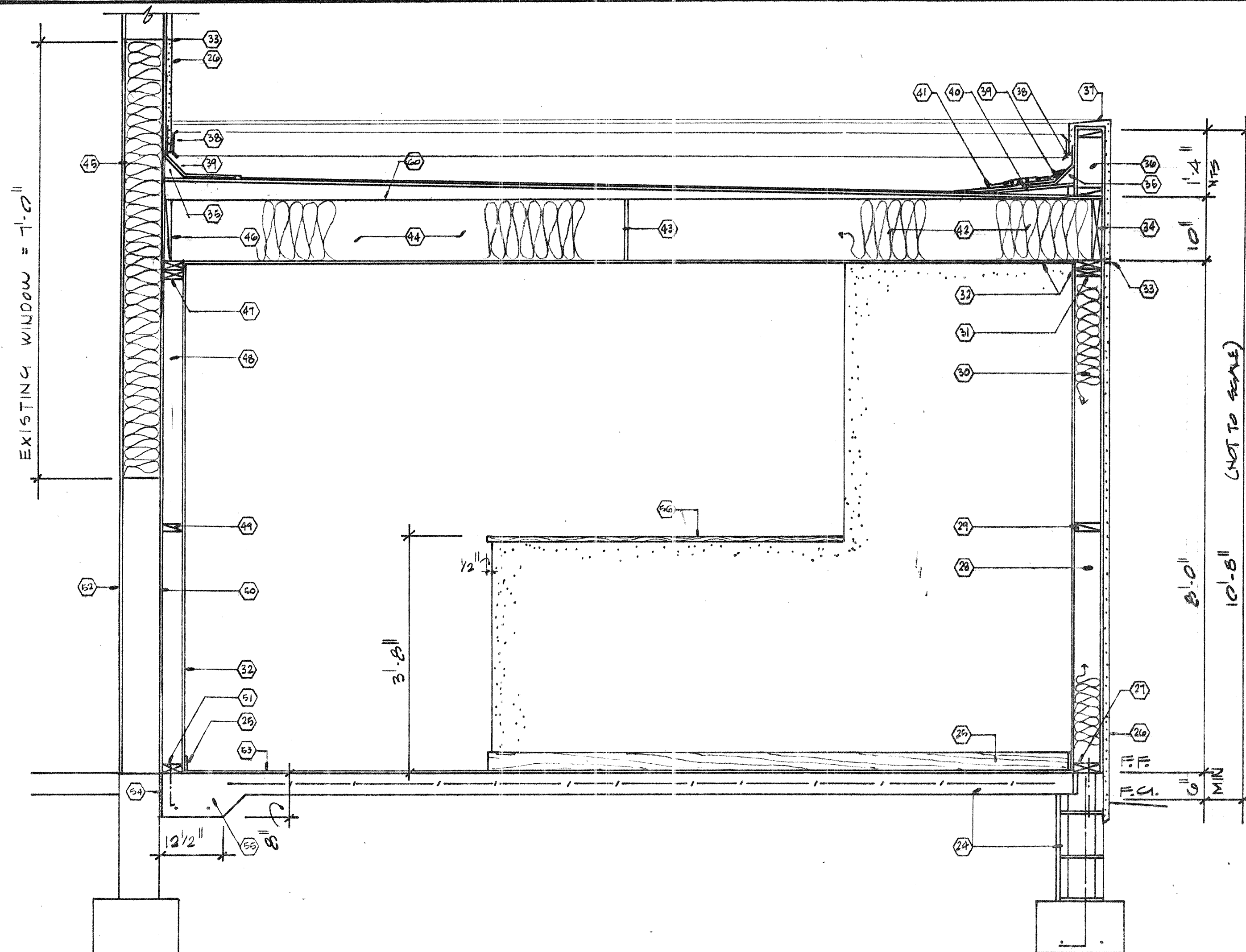
KEYED NOTES

1. Conc. Ftg. W/2-#4 cont. rebar.
2. 1" Rigid Perimeter Insulation.
3. #4 vertical reinf. @ 32" o.c.
4. 8" x 8" x 16" CMU, grout cells full.
5. 8" x 8" x 16" Header Block.
6. 4" concrete slab w/6x6 - 1.4 x 1.4 WM.
7. 12" thick slab.
8. 2 x 4 plate w/ramset @ 24" o.c., 1CB0 3302.
9. Stucco over CMU patio wall.
10. Slope stucco.
11. Hose bibb.
12. Antenna cable.
13. Wall mounted electrical fixture. Relocate. # REUSE
14. Existing CMU walls.
15. Wall mounted pull-chord electric fixture. Relocate.
16. Duplex outlet. Relocate
17. Single pole switch. Relocate
18. Timer to exhaust vent. Relocate
19. Door opener. Relocate
20. 14' x 12' overhead door. Remove & install new 22'x12' door.
21. 2 x 8 & 2 x 6 jamb w/1/2" Ø bolts @ 30" o.c. (Remove)
22. 12" x 12" conc. column. See Structural for new opening design. Columns to be removed.
23. Line of header above.
24. See Foundation Plan and Footing Details.
25. 1 x 4 wood base, stained.
26. 1" stucco on 17 ga. mesh on 15# felt paper on 1/2" asphalt impregnated sheathing.
27. 2 x 6 plate w/1/2" Ø x 10" anchor bolts @ 24" o.c. and 12" from ends and corners.
28. 2 x 6 studs at 16" o.c.
29. 2 x 6 blocking.
30. R-19 batt insulation.
31. 2 - 2 x 6 plates.
32. 5/8" type "X" gypsum board.
33. Stucco expansion joint.
34. 2 x 10 header.
35. Fiber cant strip.
36. 2 x 4 parapet wall, cripple studs at 16" o.c.
37. Slope stucco
38. Surface mounted metal flashing with neoprene steel washers with sealant.
39. Flashing and counter flashing.
40. Cricket. See Roof Plan
41. Gravel surface built-up roof over 5/8" CDX plywood decking.
42. R-30 Roof Insulation.
43. Metal cross bridging.
44. 2 x 12 ceiling joists at 16" o.c. rip to 10" at low end for drainage.
45. Existing window framed-in and filled w/batt insulation, with plaster interior.
46. 2 x 12 blocking.
47. 2 - 2 x 4 plates.
48. 2 x 4 studs at 16" o.c.
49. 2 x 4 blocking.
50. 1/2" CDX plywood sheathing.
51. 2 x 4 plate w/1/2" Ø x 10" anchor bolts @ 16" o.c.
52. Existing CMU wall w/stucco exterior.
53. Finish flooring. See Room Finish Schedule.
54. 1/2" expansion joint.
55. Thicken slab w/2 - #4 cont. rebar.
56. 2 x 6 railing, sanded smooth and stained.
57. Surface mounted flashing with neoprene steel washers.
58. New overhead door windor therma force #2001 22' x 12', install per Manufacturer's instructions.
59. Line of wall above.
60. RIP 2x6 HALL ALONG TOP OF 2x12 JOISTS FOR MIN. SLOPE OF 1/4" PER LIN. FT. - 2x6
61. #4 REBAR @ 24" O.C. 2' 9" x 2'-0"
62. #4 REBAR CONT.
63. MONOLITHIC POLY. FOOTING
64. SLOPE TO DRAIN AWAY FROM EDGE.



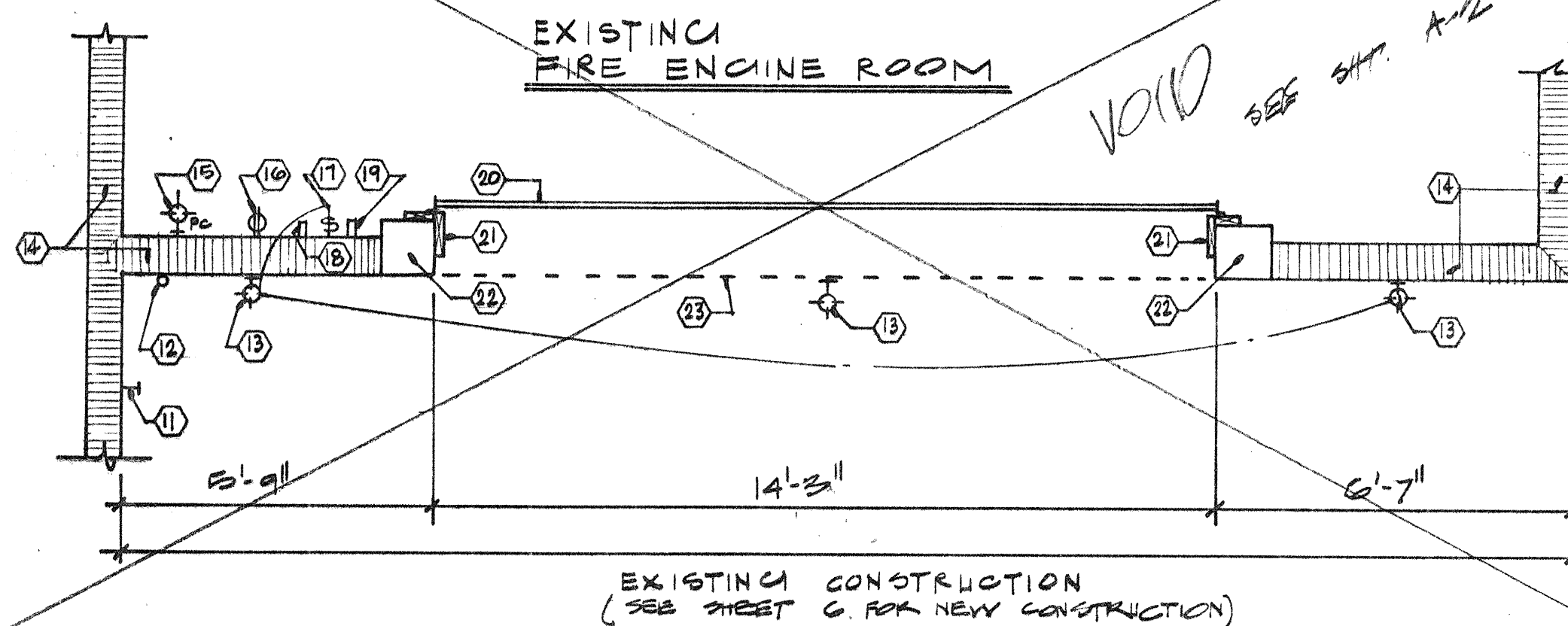
PARTIAL FLOOR PLAN NEW O.H. DOOR at ENGINE ROOM

14'-0"



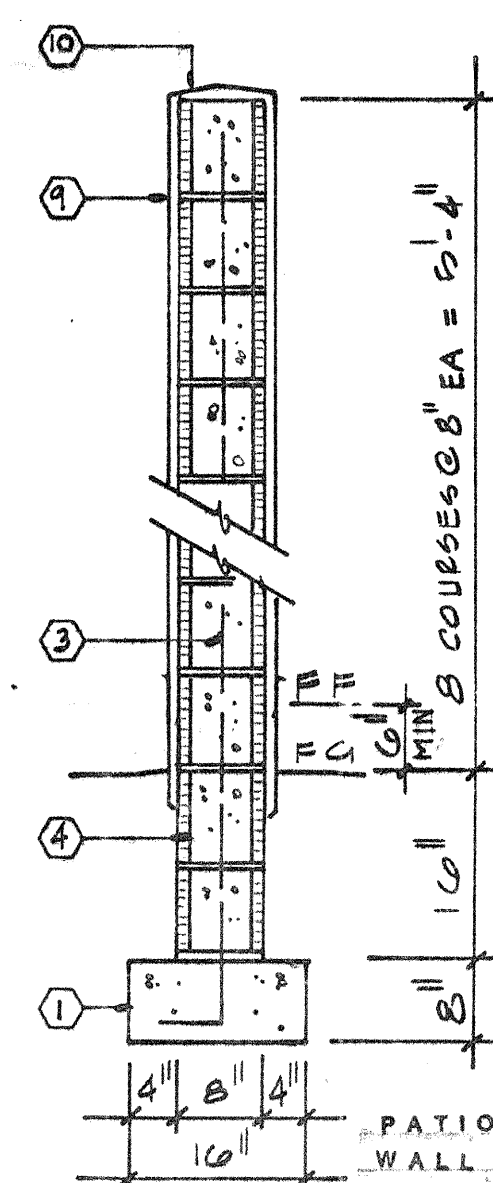
TYPICAL BUILDING SECTION

3/4" = 1'-0"



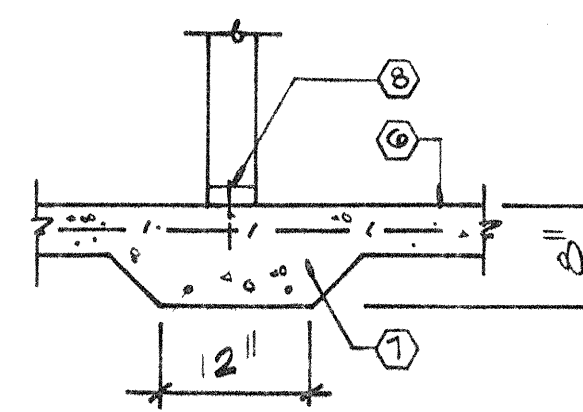
PARTIAL FLOOR PLAN AT EXIST ENGINE ROOM

3/8" = 1'-0"

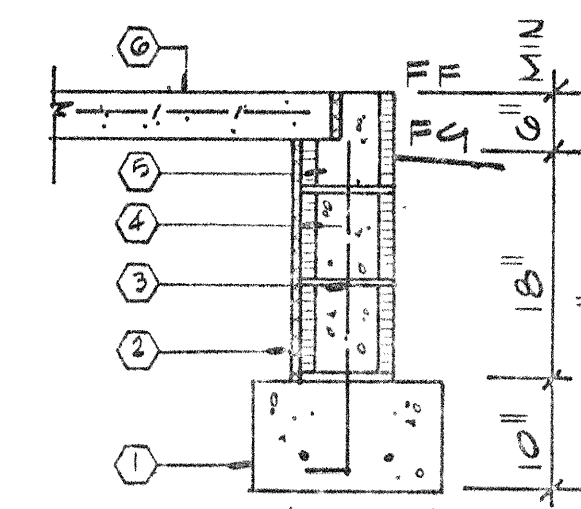


FOOTING DETAILS

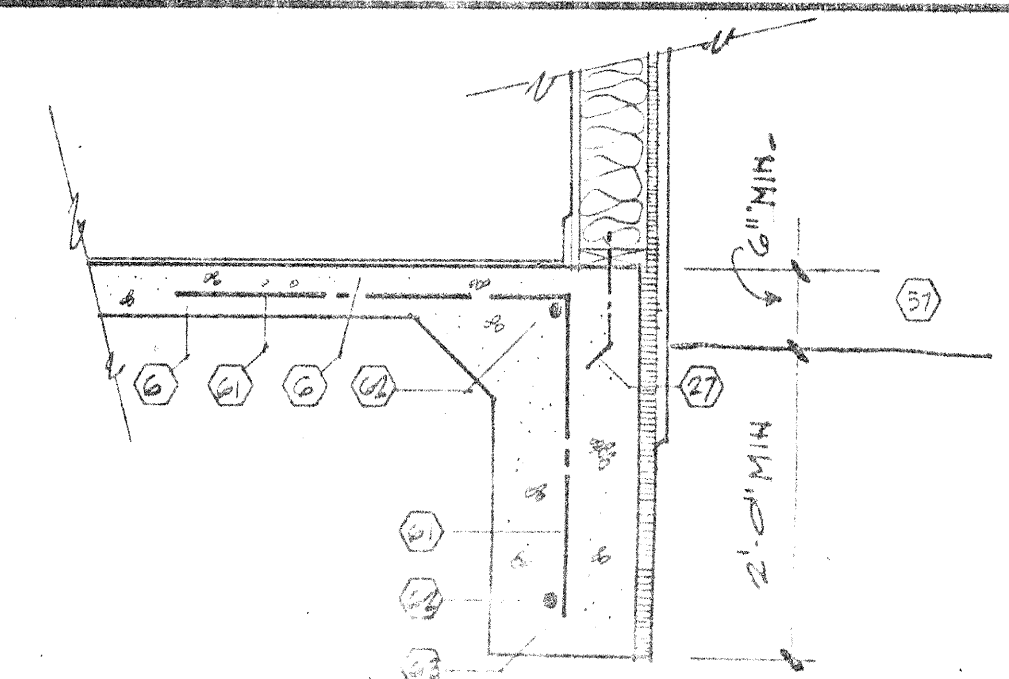
THICKEN SLAB



TYP FOOTING

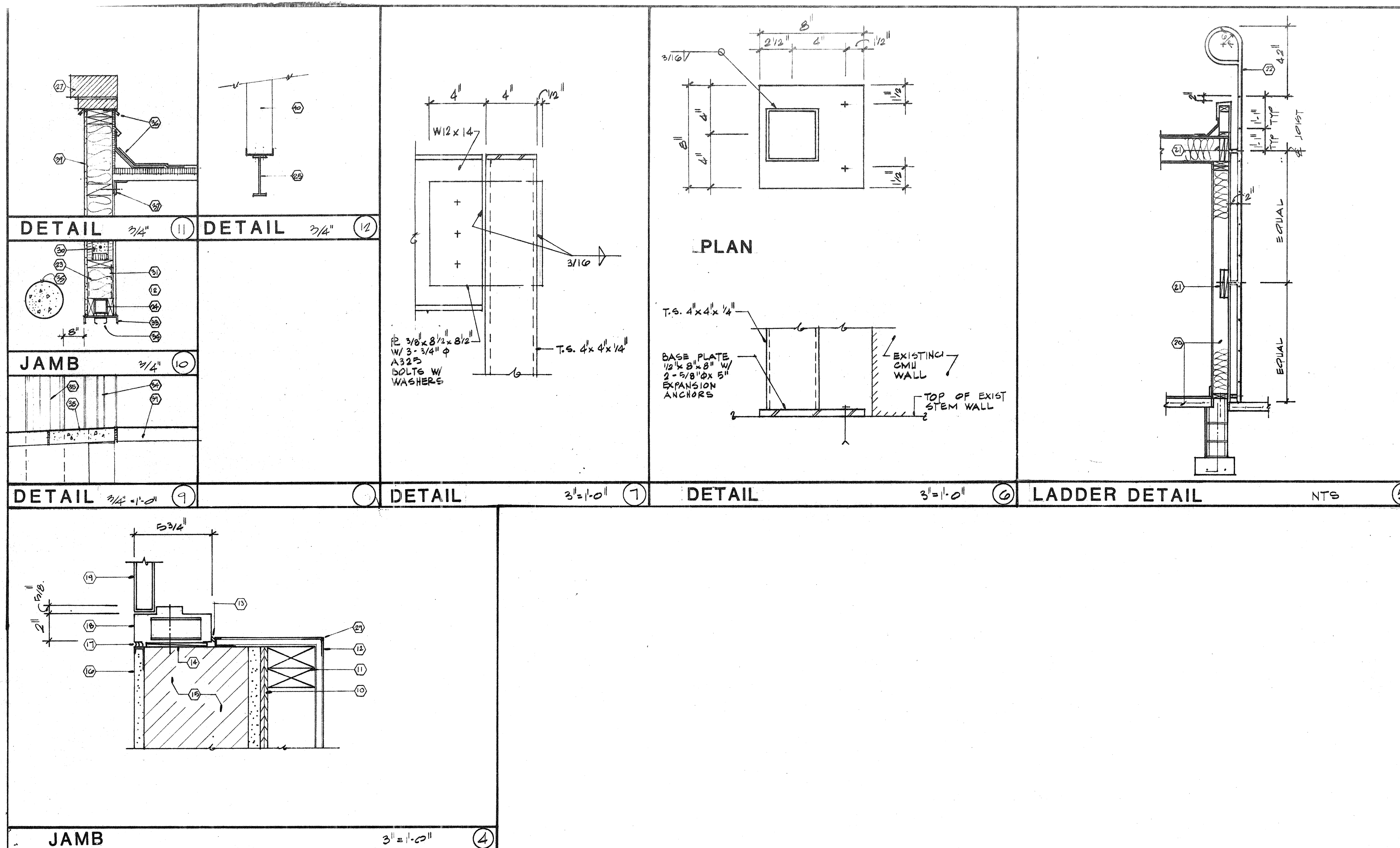


ALTERNATE FOOTING DETAIL





1. 20 ga. 6" x 4" galvanized iron leader head and downspout, primed and painted.
2. 24" x 36" concrete splash block.
3. Concrete patio slab.
4. Metal expansion joint.
5. Existing windows framed-in. Stucco over to match existing.
6. Ladder to roof.
7. Stucco.
8. New steel sectional door. "Windsor" therma-force #2001 w/7" x 24" double glazed clear polycarbonate inserts. See Structural
9. 1 x 6 redwood gate w/deadbolt lock and 2 x 4 "2" bracing.
10. 1/2" plywood sheathing.
11. 2 - 2 x 4 studs at jamb.
12. 5/8" gypsum board painted.
13. Caulk
14. Shlm
15. Existing 6" wall.
16. Existing interior finish. Patch as required to match existing.
17. Caulk
18. 2" x 5 3/4" hollow metal frame (painted) w/ jamb anchors (3) - per jamb.
19. New door as scheduled.
20. New construction. Use typical building section Detail 4 Sheet A
21. Double 2 x 10 blocking.
22. Steel ladder to roof. Bolt to new construction at each end w/ 3/8"  $\emptyset$  bolts.
23. Saw cut existing CMU wall. Remove CMU wall around existing door. Shore existing roof deck prior to removal of existing CMU wall. Remove CMU down to stem wall
24. New T.S. 4" x 4" x 1/4" steel column.
25. New W 12 x 14 steel beam.
26. New 8" x 20 ga. steel studs.
27. Replace coping to match existing.
28. Existing 14' x 12' overhead door, concrete columns, and 8" CMU wall to be removed for replacement w/new 22' x 12' overhead door. See note 8 above.
29. Typical: Use metal corner and edge beads at all gypsum board corners and edges. Provide solid wood blocking behind beads.
30. Remove CMU wall to vertical coursing joint 1'-4"  $\pm$  from corner and form with CMU. Remove "face" of CMU jamb, drill into existing concrete stem and embed #4 steel reinf. bar into concrete stem, fill last cell w/ concrete from top of wall, form with CMU.
31. Notify HKS Engineering at beginning of CMU wall demolition by calling 247-9801.
32. Provide overhead door bracing at walls and roof steel joists as required by door manufacturer.
33. Weld 10" steel channel to 4" steel tube.
34. Overhead garage door track - anchor to steel channel. Verify door opening width prior to final welding.
35. 12" round pipes 7'-0" long, concrete filled with round top.
36. Provide temporary bracing during roof repairs. Provide new continuous flashing, cant strip, and caulking at top of new wall. Provide horizontal flashing cover at new-to-existing construction. Provide metal drip cap and flashing at top of wall, under replaced brick coping.
37. Provide new 3" x 3" x 3/16" steel ledger-anchor to studs at 36" o.c. maximum.
38. New 4" concrete slab with 1/2" expansion joint, slope to drain - remove existing stem wall to 4" below slab.
39. Stucco, over wire mesh and asphalt impregnated sheathing.
40. New 8" 20 ga. metal studs at 24" o.c. Anchor to steel beam with 3/16"  $\emptyset$  ram-set at 24" o.c. staggered.





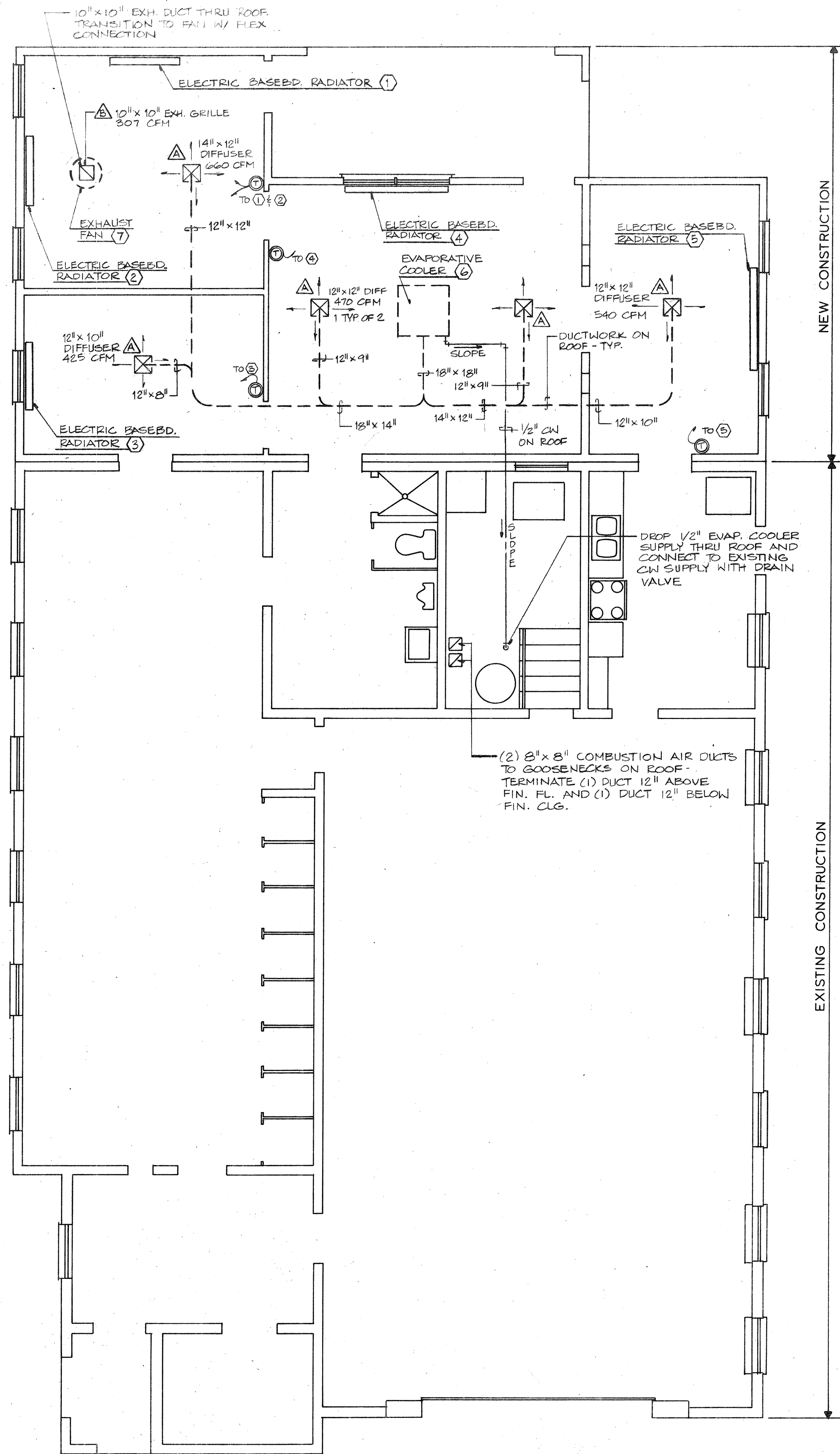
EQUIPMENT SCHEDULE						
SYMBOL	DESCRIPTION					
① THRU ⑤	BASEBOARD RADIATION: UNIT SHALL HAVE LOW-MEDIUM WATT DENSITY HEATING ELEMENT WITH FULL LENGTH 18 GAUGE STEEL FRONT COVER, END CAPS, AND BACK SECTION, FACTORY ASSEMBLED AND WIRED. HEATING ELEMENT SHALL BE AN ALUMINUM FINNED METAL SHEATH WITH CIRCUIT CONNECTIONS IN RIGHT OR LEFT JUNCTION BOXES. UNIT SHALL BE COMPLETE WITH CONTINUOUS CURTAIN AND RUG GUARD, U.L. LABELED, N.E.M.A. VERIFIED, COMPLETE WITH THERMOSTAT SECTION. CHROMOLOX MODEL NUMBERS, OR EQUAL, 120 VOLT, 1-PHASE POWER SUPPLY, FURNISH WITH REMOTE LINE VOLTAGE THERMOSTAT.					
	SYMBOL	MODEL NUMBER	LENGTH	WATTS	BTUH OUTPUT	
	①	BB-C-44	48"	1000	3415	
	②	BB-C-44	48"	1000	3415	
	③	BB-C-44	48"	1000	3415	
	④	BB-C-64	72"	1500	5120	
	⑤	BB-C-64	72"	1500	5120	
⑥	EVAPORATIVE COOLER: UNIT SHALL BE PACKAGED ROOFTOP TYPE, WITH CABINET, BLOWER HOUSING, AND CENTRIFUGAL FAN CONSTRUCTED OF HOT DIPPED GALVANIZED STEEL WITH BLOWER HOUSING, WATER RESERVOIR, AND MOTOR MOUNTS TREATED WITH A RUST INHIBITING UNDERCOATING. COMPLETE WITH FORWARD CURVED CENTRIFUGAL FAN, MOTOR MOUNTED ON ADJUSTABLE RESILIENT BASE WITH AN ADJUSTABLE V-BELT MOTOR SHERVE, EVAPORATIVE MEDIA OF WHITE ASPEN WOOD FIBERS ENCLOSED IN A MESH NETTING, AND A PLASTIC HOUSED CENTRIFUGAL PUMP WITH WATER METERED WITH A FLOAT VALVE. UNIT SHALL BE A.M.C.A. CERTIFIED, MANUFACTURER SHALL BE ARVIN OR APPROVED EQUAL.					
	SYMBOL	MODEL NUMBER	CFM @ " E.S.P.	H.P.	VOLTAGE	SPEED WEIGHT
	⑥	ED-430B	2565 @ 0.5"	1/2	120/1	2 350#
⑦	EXHAUST FAN: CENTRIFUGAL ROOF EXHAUSTER COMPLETE WITH BLOWER, HOUSING, BACKDRAFT DAMPER, BIRDSCREEN, AND PREFABRICATED MOUNTING CURB. UNIT SHALL HAVE A SPUN ALUMINUM HOUSING, ALUMINUM CURB CAP WITH STAINLESS STEEL FASTENINGS, VIBRATION ISOLATORS, NON-OVERLOADING ALL ALUMINUM BLOWER WHEEL WITH HUB DYNAMICALLY AND STATICALLY BALANCED, EXTERNAL WIRING POST, COMPLETELY FACTORY ASSEMBLED AND WIRED TO JUNCTION BOX. BELT DRIVE UNITS SHALL HAVE VARIABLE PITCH MOTOR PULLEYS. ACME MODEL NUMBERS OR APPROVED EQUAL.					
	SYMBOL	MODEL NUMBER	CFM	"E.S.P.	H.P.	VOLTAGE DRIVE
	⑦	G-85-E	307	.125"	1/40	120/1 DIRECT

#### GRILLE AND DIFFUSER SCHEDULE

GENERAL NOTES: GRILLES AND DIFFUSERS SHALL BE FABRICATED OF ALUMINUM. ALUMINUM GRILLES AND DIFFUSERS SHALL BE FINISHED IN BAKED WHITE ENAMEL. THE TYPE OF GRILLE OR DIFFUSER IS SHOWN BY SYMBOL NUMBER ON THE DRAWINGS. ALL SYMBOL NUMBERS SHALL BE CROSS CHECKED AGAINST THE ARCHITECTURAL ROOM FINISH SCHEDULE WHICH SHALL GOVERN IN THE EVENT OF CONFLICT; DISCREPANCIES SHALL BE CLEARLY NOTED ON THE SUBMITTALS. FURNISH ADDITIONAL T-BARS AS REQUIRED TO SUPPORT AND FINISH AROUND CEILING MOUNTED DIFFUSERS AND GRILLES. EQUIPMENT MANUFACTURED BY CARNES, KRUEGER, BARBER COLMAN AND TITUS IS ACCEPTABLE. OTHER MANUFACTURERS SHALL BE ACCEPTED BY PRIOR APPROVAL ONLY.

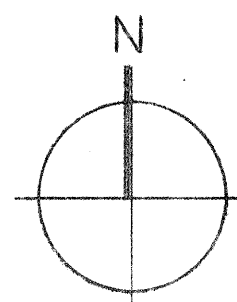
**A** CEILING SUPPLY DIFFUSER: ALUMINUM CONSTRUCTION, ADJUSTABLE CURVED BLADE 4-WAY DEFLECTION, SURFACE MOUNT, OPPOSED BLADE DAMPER, BAKED WHITE ENAMEL FINISH. KRUEGER 5180 OR APPROVED EQUAL.

**B** CEILING RETURN GRILLE: WHITE ALUMINUM CORE OF 1/2" x 1/2" x 1/2" SQUARES IN AN ALUMINUM FRAME WITH APPROXIMATELY 1-1/2" MARGIN FOR SURFACE MOUNTING. SIZED AS SHOWN ON DRAWINGS. KRUEGER EGC-5, CARNES 6295, TITUS 50-F, BARBER COLMAN TXD, OR APPROVED EQUAL.



MECHANICAL FLOOR PLAN

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



ROBERT L. TORRES & ASSOCIATES  
1801 Lomas Boulevard Northwest Albuquerque, New Mexico 87104 Tel. 505-243-3756



DIVISION 15: MECHANICAL  
15100: H.V.A.C. AND PLUMBING  
GENERAL CONDITIONS

1. THE MECHANICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE PLUMBING CODES AND GAS ORDINANCES OF THE STATE OF NEW MEXICO AND THE NATIONAL FIRE PROTECTION ASSOCIATION REGULATIONS REGARDING FIRE PROTECTION.
2. PERMITS NECESSARY FOR THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND ACCESSORIES AS REQUIRED TO COMPLETE THE PROPER INSTALLATION OF THE H.V.A.C. AND PLUMBING SYSTEMS.
3. OBSERVATION OF THE WORK WILL BE MADE BY THE ARCHITECT/ENGINEER AND/OR OWNER. REQUEST FOR INSPECTIONS FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND ACCESSORIES AS REQUIRED TO COMPLETE THE PROPER INSTALLATION OF THE H.V.A.C. AND PLUMBING SYSTEMS.
4. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL BE THE STANDARD PRODUCT OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT AND SHALL BE THE MANUFACTURER'S LATEST DESIGN.
5. THE CONTRACTOR SHALL REFER TO OTHER PARTS OF THE SPECIFICATIONS AND DRAWINGS COVERING WORK OF OTHER TRADES WHICH MUST BE CARRIED ON IN CONJUNCTION WITH MECHANICAL WORK SO THAT THE CONSTRUCTION OPERATIONS CAN PROCEED WITHOUT HARM TO THE OWNER FROM INTERFERENCE, DELAY OR ABSENCE OF COORDINATION.
6. AS SOON AS POSSIBLE AFTER THE CONTRACT IS AWARDED THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT EIGHT COPIES OF SUBMITTAL DATA FOR ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND INSTALLED. SUBMITTAL DATA SHALL CONSIST OF MANUFACTURER'S PRINTED MATTER, CATALOG CUTS, PAMPHLET OR SPECIFICATION SHEETS, CLEARLY MARKED AS TO PLAN CODE. ANY EQUIPMENT OFFERED BY THE CONTRACTOR AS A SUBSTITUTION SHALL BE EQUAL IN QUALITY, DURABILITY, APPEARANCE, CAPACITY, AND EFFICIENCY THROUGH ALL RANGES OF OPERATION.
7. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK, FULLY INFORM HIMSELF AS TO ALL EXISTING CONDITIONS, DIMENSIONS AND LIMITATIONS BEFORE STARTING WORK. IF EXISTING ACTIVE OR NON-ACTIVE SERVICES (WHICH ARE NOT SHOWN ON PLANS) ARE ENCOUNTERED THAT REQUIRE RELOCATION OR DISCONNECTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FOR A DECISION ON PROPER HANDLING OF THESE SERVICES. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL SO AUTHORIZED.
8. ALL PIPING LAID IN TRENCHES SHALL BE BEDDED EVENLY AND FIRMLY. THE TRENCH BED SHALL CONSIST OF UNDISTURBED NATIVE SOIL OR SHALL BE COMPACTED TO AN EQUALLY FIRM BEDDING.
9. WHENEVER POSSIBLE, IT IS DESIRABLE TO LAY PARALLEL WATER AND SEWER LINES AT LEAST TEN FEET APART HORIZONTALLY AND THE WATER LINE SHOULD BE AT A HIGHER ELEVATION THAN THE SEWER. IF THIS IS NOT POSSIBLE, SEPARATE TRENCHES WILL BE REQUIRED IN ALL CASES (THIS SHALL BE EFFECTIVE EVEN THOUGH ONE LINE HAS BEEN INSTALLED PRIOR TO THE OTHER), AND THE WATER LINE SHALL BE AT LEAST TWO FEET ABOVE THE SEWER. WHEN WATER AND SEWER LINES CROSS EACH OTHER, THE WATER LINE SHALL BE AT LEAST THREE FEET ABOVE THE SEWER LINES; OTHERWISE, THE SEWER SHALL BE OF STEEL OR CAST IRON PIPE OR EQUIVALENT FOR TEN FEET ON EACH SIDE OF THE WATER LINE.
10. SURFACES OF ALL EQUIPMENT AND MATERIAL SHALL BE THOROUGHLY CLEANED AND LEFT READY FOR PAINTING, TO BE PERFORMED BY OTHERS.
11. ROOF CURBS, BASES AND FLASHINGS FOR ALL EQUIPMENT LOCATED ON ROOF SHALL BE FURNISHED BY THIS CONTRACTOR.
12. OPERATING INSTRUCTIONS SHALL INCLUDE MANUFACTURER'S PRINTED OPERATING INSTRUCTION, ELECTRICAL WIRING DIAGRAMS AND SEPARATE TYPEWRITTEN OILING AND SERVICING INSTRUCTIONS AS MAY BE REQUIRED FOR ALL MECHANICAL EQUIPMENT COVERED IN THIS SPECIFICATION INCLUDING PERSONAL INDOCTRINATION OF AUTHORIZED OPERATING PERSONNEL. THE INSTRUCTIONS SHALL CONSIST OF THREE SETS ASSEMBLED IN LOOSE RING BINDERS.
13. ALL WORKMANSHIP, EQUIPMENT AND MATERIALS SHALL HAVE A ONE YEAR GUARANTEE. THE CONTRACTOR SHALL MAKE ANY REPAIRS OR REPLACE ANY COMPONENTS AS REQUIRED DURING THE ONE YEAR PERIOD AT NO ADDITIONAL EXPENSE TO THE OWNER.

BASIC MATERIALS AND METHODS:

1. WHERE UNCOVERED EXPOSED PIPES PASS THROUGH FLOORS, FINISHED WALLS OR FINISHED CEILINGS, THEY SHALL BE FITTED WITH CHROMIUM PLATED PLATES.
2. HORIZONTAL UNCOVERED RUNS OF PIPE SHALL BE HUNG WITH ADJUSTABLE 3/8" DIAMETER WROUGHT-IRON OR MALLEABLE-IRON PIPE HANGERS, SPACED NOT OVER EIGHT FEET APART. TUBING OR CAST-IRON PIPE SHALL HAVE HANGERS SPACED NOT OVER FIVE FEET APART. CHAIN, STRAP, PERFORATED BAR OR WIRE HANGERS WILL NOT BE PERMITTED.
3. ALL VALVES SHALL BE AS MANUFACTURED BY CRANE, JENKINS, WALWORTH, KENNEDY, LUNKENHEIMER OR POWELL.
  - A. GATE VALVES 2 INCHES AND SMALLER: CRANE 428 UB, RISING STEM, WEDGE DISC, BRONZE BODY, 125 PSI WORKING PRESSURE.
  - B. SWING CHECK 2 INCHES AND SMALLER: CRANE NO. 37, ALL BRONZE, 125 POUNDS W.S.P.
  - C. GLOBE VALVES 2 INCHES AND SMALLER: CRANE NO. 7, 150 PSI, BRONZE BODY WITH RENEWABLE DISC.
  - D. GATE VALVES FOR COPPER PIPE: CRANE NO. 1320, ALL BRONZE, WEDGE DISC, TAPERED SEAT, RISING STEM 125 POUNDS W.S.P.
  - E. GLOBE VALVES FOR COPPER PIPE: CRANE NO. 1310, BRONZE BODY, COMPOSITION DISC.
  - F. SWING CHECK VALVES, COPPER PIPE: CRANE NO. 1522, ALL BRONZE, 125 POUNDS W.S.P.
4. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING SPECIALTIES NECESSARY FOR SATISFACTORY OPERATION OF THE SYSTEM, AND AS INDICATED ON THE DRAWINGS.
5. GENERAL PIPING:
  - A. PIPE SHALL BE CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT THE CONSTRUCTION SITE AND SHALL BE WORKED TO PLACE WITHOUT SPRINGING OR FORCING, PROPERLY CLEARING ALL OPENINGS AND EQUIPMENT. CUTTING AND/OR WEAKENING OF STRUCTURAL MEMBERS TO FACILITATE PIPING INSTALLATION WILL NOT BE PERMITTED. PIPES SHALL HAVE BURRS REMOVED BY REMING AND SHALL BE SO INSTALLED AS TO PERMIT FREE EXPANSION AND CONTRACTION WITHOUT DAMAGE TO JOINTS OR HANGERS. PIPING ABOVE GROUND WILL BE RUN PARALLEL WITH THE LINES OF THE BUILDING UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - B. REDUCTORS: REDUCTION IN PIPE SIZES SHALL BE MADE WITH ONE-PIECE REDUCING FITTINGS.
  - C. PIPE SLEEVES: PIPES PASSING THROUGH MASONRY CONSTRUCTION SHALL BE FITTED WITH SLEEVES.
6. JOINTS:
  - A. CAULKED JOINTS: THE CYLINDRICAL SPACE BETWEEN EACH FULLY SEATED HUB AND SPIGOT ASSEMBLY SHALL BE FIRMLY PACKED WITH OAKUM OR HEMP TO LEAVE A ONE INCH MINIMUM DEPTH OF REMAINING CYLINDRICAL SPACE TO THE END OF THE HUB. THE REMAINING SPACE SHALL BE CAULKED WITH PURE MOLTEN LEAD NOT LESS THAN ONE INCH DEEP.
  - B. SCREWED JOINTS: SCREWED PIPE JOINTS SHALL HAVE AMERICAN STANDARD TAPER PIPE THREADS ANSI-B2.1-68. BURRS FORMED WHEN CUTTING PIPE SHALL BE REMOVED BY REAMING. CARE SHALL BE TAKEN AT THE INSIDE OF PIPE IS THOROUGHLY CLEAN AND FREE OF CUTTING OIL AND FOREIGN MATERIAL BEFORE INSTALLATION. JOINTS SHALL BE MADE PERFECTLY TIGHT BY THE USE OF TEFLON TAPE OR APPROVED TEFLON THREAD SEALING AND LUBRICATING COMPOUND.
  - C. SOLDER JOINTS: TUBING SHALL BE CUT SQUARE AND BURRS REMOVED. BOTH INSIDE OF FITTINGS AND OUTSIDE OF TUBING SHALL BE WELL CLEANED WITH STEEL WOOL OR WIRE BRUSH BEFORE SWEATING CARE SHALL BE TAKEN TO PREVENT ANNEALING OF FITTINGS AND HARD DRAWN TUBING WHEN MAKING CONNECTIONS. JOINTS FOR SWEATED FITTINGS ON WATER LINES SHALL BE MADE WITH A NON-CORROSIVE PASTE FLUX AND SOLID WIRE SOLDER COMPOSED OF 50 PERCENT TIN AND 50 PERCENT LEAD CORED SOLDER WHICH WILL NOT BE PERMITTED.
  - D. NO HUB JOINTS: HUBLESS PIPING SHALL BE JOINED WITH A STAINLESS STEEL RETAINING CLAMP MANUFACTURED SPECIFICALLY FOR USE IN HUBLESS CAST IRON SANITARY SYSTEMS AND SHALL COMPLY WITH STANDARDS ISSUED BY THE CAST IRON SOIL PIPE INSTITUTE. SEALING GASKET SHALL BE FABRICATED FROM HIGH QUALITY VULCANISED ELASTOMERIC COMPOUND CONTAINING DUPONT NEOPRENE AS THE SOLE ELASTOMER.
  - E. INSULATING FITTINGS SHALL BE USED TO CONNECT DISSIMILAR METALS (SUCH AS STEEL AND COPPER) TO PREVENT ELECTROLYTIC ACTION.

8. UNIONS: SHALL BE INSTALLED IN ALL PIPING CONNECTIONS TO EQUIPMENT, CONTROL VALVES, ETC.
9. PROTECTION OF UNDERGROUND PIPING: ALL UNDERGROUND STEEL PIPE, INCLUDING GALVANIZED PIPE SHALL BE PROTECTED AGAINST CORROSION WITH TWO COMPLETE LAYERS OF SCOTCHWRAP NO. 51 INSULATING TAPE OR APPROVED EQUAL COVERING.
10. TESTING: BEFORE ANY INSTALLATION OF INSULATION OR BEFORE PIPING IS COVERED OR ENCLOSED ALL PIPING SYSTEMS SHALL BE TESTED AND PROVED TIGHT AT NOT LESS THAN THE MAXIMUM SERVICE PRESSURE WHICH THE PIPING WILL BE REQUIRED TO HANDLE UNLESS OTHERWISE SPECIFIED.
11. BELTS AND PULLEYS: THE CONTRACTOR SHALL MAKE ANY CHANGES OR REPLACEMENTS OF PULLEYS AND BELTS REQUIRED FOR CORRECT BALANCE OF THE SYSTEM.
12. CLEANING: AT THE COMPLETION OF WORK, ALL PARTS OF THE INSTALLATION SHALL BE THOROUGHLY CLEANED. ANY STOPPAGE OR DISCOLORATION OR OTHER DAMAGE TO PARTS OF THE BUILDING, ITS FINISH OR FURNISHINGS, DUE TO THE CONTRACTOR'S FAILURE TO PROPERLY CLEAN THE SYSTEM, SHALL BE REPAIRED BY THE CONTRACTOR.

INSULATION:

1. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS, PHILIP CARE, GUSTIN-BACON, JOHNS-MANVILLE OR ARMSTRONG, OR APPROVED EQUAL. ALL INSULATION MATERIALS SHALL HAVE A COMPOSITE (INSULATION, JACKET AND ADHESIVE) FIRE AND SMOKE HAZARD RATING NOT EXCEEDING: FLAME SPREAD - 25; FUEL CONTRIBUTION - 50; SMOKE DEVELOPED - 50. ALL ACCESSORIES AND MATERIALS USED FOR FITTINGS SHALL HAVE SAME RATINGS. PREFABRICATED OR MOLDED INSULATION SHALL BE USED OR ALL FITTINGS WHERE APPLICABLE.
2. DOMESTIC HOT WATER PIPING: PIPING SHALL BE INSULATED WITH ONE INCH THICK FIBERGLASS ONE PIECE PREFORMED PIPE INSULATION WITH PRESIZED GLASS CLOTH JACKET. FITTINGS SHALL BE FINISHED TO A SMOOTH SURFACE.
3. DUCTWORK:
  - A. SUPPLY DUCTS HANDLING HEATING AIR ONLY SHALL BE INSULATED WITH FIBERGLASS WITH A DENSITY OF ONE POUND PER CUBIC FOOT, 13 INCH THICKNESS. ALL END AND LONGITUDINAL JOINTS SHALL LAP A MINIMUM OF TWO INCHES WITH FLAREDON STAPELS, 4" O.C. AND ADDITIONALLY SECURED WITH CORD 12" O.C.
  - B. SUPPLY DUCTS HANDLING HEATING AND REFRIGERATED AIR IN CONCEALED SPACE SHALL BE INSULATED WITH 13" THICK STANDARD FIBERGLASS DUCT WRAP, ONE LB. DENSITY WITH A K VALUE OF 0.27 AT 75 DEGREES F. MEAN TEMPERATURE. INSULATION SHALL HAVE AN ALL SERVICE VAPOR BARRIER JACKET (ASJ). ADHERE INSULATION TO DUCT WITH FIRE RETARDANT ADHESIVE IN SUFFICIENT QUANTITIES TO PREVENT GAGGING. INSULATION SHALL BE BUTTED WITH FACING OVERLAPPING ALL JOINTS A MINIMUM OF 2" AND SEALED WITH FIRE RETARDANT VAPOR BARRIER ADHESIVE. SEAL ALL BREAKS AND PUNCTURES WITH VAPOR BARRIER TAPE AND FIRE RETARDANT ADHESIVE.
  - C. SUPPLY DUCTS IN MECHANICAL EQUIPMENT ROOMS AND EXPOSED IN OCCUPIED AREAS THEY DO NOT SERVE SHALL BE INSULATED WITH ONE POUND DENSITY PLAIN BLANKET APPLIED WITH ADHESIVE AND FINISHED WITH 6 OUNCE CANVAS WHICH IS APPLIED WITH A FULL STRENGTH COATING OF FOSTER'S 30 - 36 LAGGING ADHESIVE. SUPPLY DUCTS IN AREAS THEY SERVE SHALL BE UNINSULATED.
  - D. SUPPLY DUCTS HANDLING EVAPORATIVE COOLING AIR ONLY SHALL NOT BE INSULATED.
  - E. WHERE NOTED ON THE DRAWINGS DUCTWORK SHALL BE LINED WITH 1" DUCT LINER EQUAL TO CERTAIN-TEED #150 ULTRALITE DUCT LINER. COATED DUCT LINES SHALL BE CUT TO ASSURE OVERLAPPED AND COMPRESSED LONGITUDINAL CORNER JOINTS. APPLY LINER WITH COATED SURFACE FACING THE AIR STREAM AND ADHERE WITH 100% COVERAGE OF FIRE RETARDANT ADHESIVE. COAT ALL EXPOSED LEADING EDGES AND ALL TRANSVERSE JOINTS WITH FIRE RETARDANT ADHESIVE. THE LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS WHICH SHALL COMPRESS THE DUCT LINER SUFFICIENTLY TO HOLD IT FIRMLY IN PLACE.
  - F. DUCTWORK EXPOSED ON ROOF SHALL BE INSULATED WITH 3" DENSITY INSULATING BOARD WITH FOIL (FSK) FACING WITH TWO 1/8" WET COATS OF VAPOR BARRIER MASTIC REINFORCED WITH GLASS FABRIC LAPPED A MINIMUM OF 2".

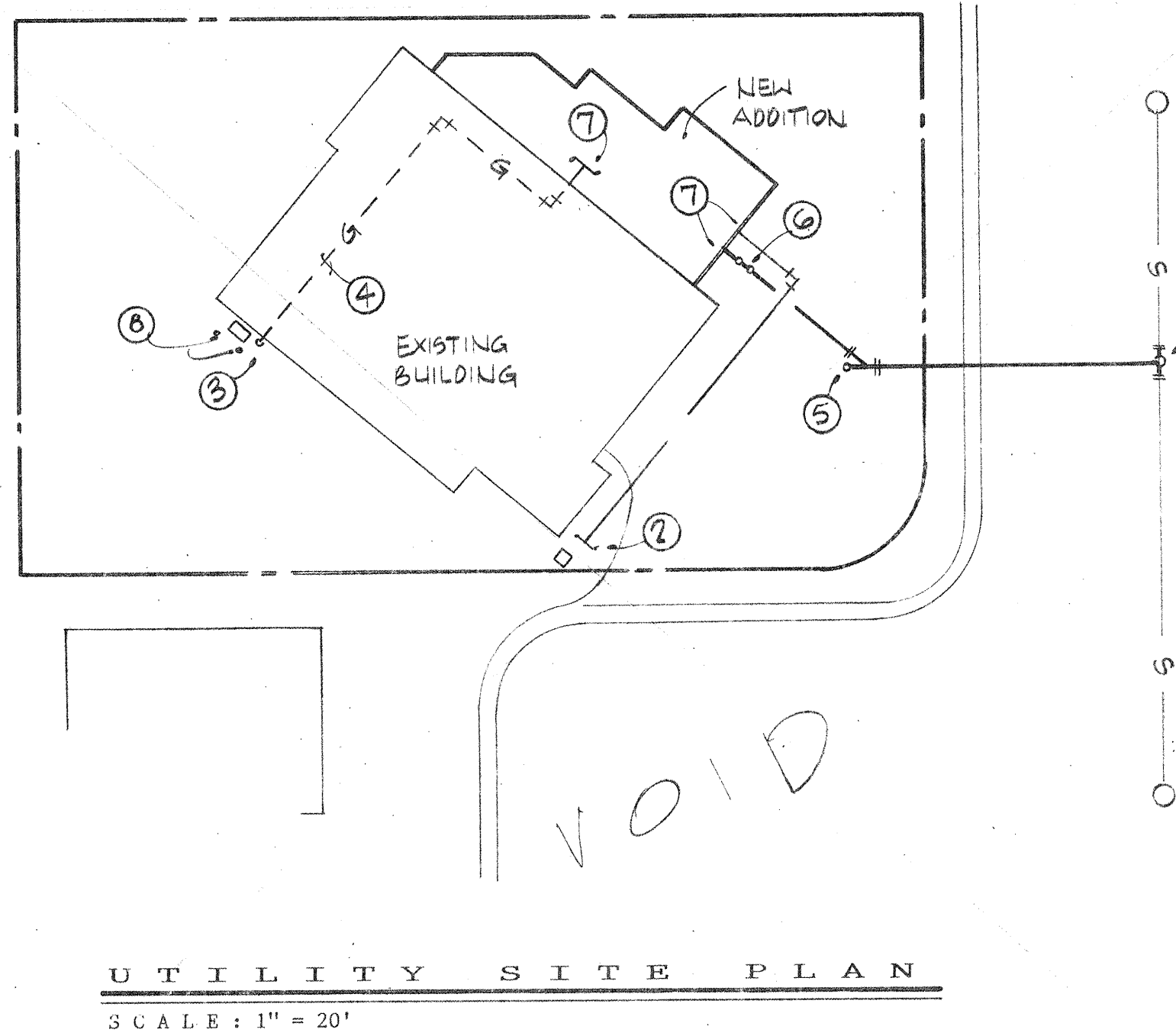
PLUMBING SYSTEM:

1. FIXTURES AND TRIM SHALL BE AS MANUFACTURED BY CRANE, KOHLER OR AMERICAN STANDARD EXCEPT AS OTHERWISE SPECIFIED AND SHALL BE EQUIVALENT TO THOSE SPECIFIED IN THE EQUIPMENT SCHEDULE ON THE DRAWINGS.
2. INTERIOR DOMESTIC HOT AND COLD WATER PIPING: SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A-120-72a; WITH 150 POUND BANDED GALVANIZED MALLEABLE IRON SCREWED FITTINGS CONFORMING WITH ANSI B16.3-71, OR TYPE L HARD DRAWN COPPER TUBING, ASTM B58-72, WITH WROUGHT COPPER SOLDER TYPE FITTINGS CONFORMING WITH ANSI B15.22-63.
3. EXTERIOR COLD WATER PIPING SHALL BE WRAPPED SCHEDULE 40, GALVANIZED STEEL PIPE, ASTM A-120-72a WITH 150 POUND BANDED GALVANIZED MALLEABLE IRON SCREWED FITTINGS CONFORMING WITH ANSI B16.2-71, OR TYPE K HARD DRAWN COPPER TUBING WITH WROUGHT COPPER SOLDER TYPE FITTINGS.
4. INTERIOR SOIL AND WASTE PIPING: SHALL BE STANDARD WEIGHT HUB AND SPIGOT COATED CAST IRON PIPE AND FITTINGS AND SHALL CONFORM WITH ASTM A74-72, AND MAY UTILIZE EITHER COMPRESSION GASKET JOINTS OR NO-HUB TYPE JOINTS.
5. EXTERIOR SOIL AND WASTE PIPING SHALL BE AS FOLLOWS:
  - A. CAST IRON PIPE SHALL CONFORM WITH ASTM A74-72 FOR COATED STANDARD WEIGHT PIPE WITH HUB AND SPIGOT ENDS.
  - B. VITRIFIED CLAY PIPE SHALL CONFORM WITH ASTM-C700-711 FOR EXTRA STRENGTH CERAMIC GLAZED CLAY PIPE WITH HUB AND SPIGOT ENDS.
6. VENT PIPING: SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A-120-72a, WITH BANDED GALVANIZED MALLEABLE IRON SCREWED FITTINGS CONFORMING WITH ANSI B16.3-71, OR STANDARD WEIGHT CAST IRON NO-HUB PIPE UTILIZING NO-HUB JOINTS.
7. NATURAL GAS PIPING:
  - A. PIPE 2 INCHES AND LARGER SHALL CONFORM TO THE REQUIREMENTS OF ASTM A120-72a, BLACK STEEL, STANDARD WEIGHT (SCHEDULE 40) WITH BEVELED ENDS FOR WELDING JOINTS.
  - B. PIPE SMALLER THAN 2 INCHES: SHALL CONFORM TO THE REQUIREMENTS OF ASTM A120-72a, BLACK STEEL, STANDARD WEIGHT (SCHEDULE 40).
  - C. WELDING FITTINGS 2 INCHES AND LARGER: SHALL CONFORM TO ANSI B16.9-71 FOR STANDARD WEIGHT (SCHEDULE 40) STEEL, BUTT-WELDING FITTINGS.
  - D. SCREWED FITTINGS SMALLER THAN 2 INCHES (EXCLUDING UNIONS) SHALL CONFORM TO ANSI B16.3-71 FOR 150 POUND MALLEABLE IRON FITTINGS WITH THREADS CONFORMING TO ANSI B2.1-68.
  - E. VALVES, 2 INCHES AND LARGER: SHALL CONFORM TO API 6D FOR 150 POUND SERVICE CLASS WITH FLANGED ENDS.
  - F. VALVES, 1 1/2 INCHES AND SMALLER: SHALL BE 150 POUND PLUG COCK TYPE WITH BRASS CORES AND WITH THREADS CONFORMING TO ANSI B2.1-68.
8. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, REQUIRED FITTINGS (ELBOWS, Y-BRANCHES, TEES, ETC.) TO BE USED IN PIPELINES SHALL CONFORM WITH THE REQUIREMENTS ASSOCIATED WITH THE SPECIFIC MATERIALS OF THE PIPE TO WHICH THEY WILL BE CONNECTED.
9. VENT PIPES SHALL BE FLASHED AND MADE WATERTIGHT AT THE ROOF WITH SHEET LEAD FLASHING. FLASHING SHALL WEIGH AT LEAST FOUR POUNDS PER SQUARE FEET, SHALL BE 24" SQUARE AND SHALL BE TURNED UP AND AROUND PIPE INTO THE TOP OF THE PIPE. VENT PIPES SHALL BE EXTENDED AT LEAST 12" ABOVE ROOF.
10. EACH FIXTURE AND PIECE OF EQUIPMENT CONNECTING THE DRAINAGE SYSTEM SHALL BE EQUIPPED WITH A TRAP. EACH TRAP SHALL BE PLACED AS NEAR TO THE FIXTURE AS POSSIBLE AND NO FIXTURE SHALL BE DOUBLE TRAPPED.
11. EACH FIXTURE AND PIECE OF EQUIPMENT CONNECTING TO THE WATER SYSTEM SHALL HAVE A STOP OR ISOLATION VALVE.
12. PROVIDE AIR CUSHIONS AT EACH WATER CONNECTION TO EACH FIXTURE (12" MINIMUM HEIGHT).
13. FIXTURES: SHALL BE FIRMLY BOLTED TO WALL, FLOORS OR CARRIERS, IN ACCORDANCE WITH THE MANUFACTURER'S ROUGHING-IN AND SETTING REQUIREMENTS AND DRAWINGS. PROPER PROVISION FOR HANGING AND SETTING FIXTURES AND ACCESSORIES SHALL BE MADE BY THE PLUMBING CONTRACTOR DURING BUILDING CONSTRUCTION. ALL FIXTURES SHALL BE INSTALLED SQUARE WITH THE WALL, IN LINE, AND LEVEL TO GIVE A WORKMANLIKE AND UNIFORM APPEARANCE.

14. EXTERIOR PIPING AND INSTALLATION:
  - A. THE FULL LENGTH OF EACH SECTION OF PIPE SHALL REST SOLIDLY UPON THE PIPE BED WITH RECESSES EXCAVATED TO ACCOMMODATE THE JOINTS. ANY PIPE THAT HAS THE GRADE OR JOINT DISTURBED AFTER LAYING SHALL BE TAKEN UP AND RELAID. THE INTERIOR OF THE PIPE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH AND SHALL BE KEPT CLEAN DURING LAYING OPERATIONS BY MEANS OF PLUGS OR OTHER APPROVED METHODS. MINIMUM DEPTH OF COVER OVER PIPE SHALL BE THREE FEET, WITH GREATER DEPTHS OF COVER AS SHOWN ON THE PLANS.
  - B. CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE WITH FITTINGS SUITABLE FOR THE PARTICULAR CONDITIONS ENCOUNTERED AND IN AN ACCEPTABLE MANNER.
  - C. THE SANITARY SOIL, WASTE AND VENT PIPING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED BY PLUGGING ALL OUTLETS AND FILLING THE LINES WITH WATER TO THE LEVEL OF THE HIGHEST VENT STACK ABOVE THE ROOF. THE SYSTEM SHALL HOLD THIS WATER FOR ONE HOUR WITHOUT SHOWING A DROP GREATER THAN THREE INCHES. ALL JOINTS SHALL BE INSPECTED FOR VISIBLE LEAKS. ALL SOIL OR WASTE PIPE LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING.

AIR DISTRIBUTION SYSTEM:

1. ALL RECTANGULAR DUCTS, CASINGS, PLENUMS, ETC., SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEETS UNLESS OTHERWISE INDICATED ON THE APPLICABLE CONTRACT DRAWINGS OR SPECIFIED HEREIN. SHEETS SHALL BE FREE FROM BLISHTERS, SLIVERS, PITS AND IMPERFECTLY GALVANIZED SPOTS. DUCTS SHALL BE CONSTRUCTED USING PITTSBURGH LOCK CORNER SEAMS.
2. ALL ROUND DUCTS AND FITTINGS SHALL BE EQUAL TO SPIRAL LOCKSEAM CONDUIT AS MANUFACTURED BY UNITED SHEET METAL CO., INC. 540 DREXEL AVE., SOUTH, COLUMBUS, OHIO.
3. ALL FLEXIBLE DUCTS SHALL BE "THERMOFLEX" INSULATED, TYPE M-KA, AS MANUFACTURED BY FLEXIBLE TUBING COMPANY, GUILFORD, CONNECTICUT, UNLESS OTHERWISE NOTED. SHEET METAL DRAW BANDS SHALL BE PROVIDED AT ALL FLEXIBLE DUCT CONNECTIONS.
4. ALL NECESSARY ALLOWANCE AND PROVISIONS SHALL BE MADE IN INSTALLATION OF SHEET METAL DUCTS FOR STRUCTURAL CONDITIONS OF BUILDING AND DUCTS SHALL BE TRANSFORMED OR DIVIED AS MAY BE REQUIRED. WHENEVER THIS IS NECESSARY, THE EQUIVALENT AREA SHALL BE MAINTAINED. ALL OF THESE CHANGES, HOWEVER, MUST BE APPROVED AND INSTALLED AS SO DIRECTED AT PROJECT SITE. DURING INSTALLATION OPEN ENDS OF ALL DUCTS SHALL BE PROTECTED TO PREVENT DEBRIS AND DIRT FROM ENTERING.
5. UNLESS OTHERWISE INDICATED ON DRAWINGS OR SPECIFIED HEREIN, MATERIAL GAUGES TO BE USED AND CONSTRUCTION OF DUCTWORK SHALL CONFORM WITH CURRENT EDITION (AT TIME OF BID LETTING) OF THE "DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS": SECTION 1 - LOW VELOCITY SYSTEMS (2" MAXIMUM STATIC PRESSURE), AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) OR THE ASHRAE GUIDE AND DATA BOOK AS PUBLISHED BY THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS.
6. SHEET METAL DUCTS AND FITTINGS SHALL BE CROSS BROKEN OR OTHERWISE STIFFENED TO REDUCE OIL CANNING OR VIBRATION TO A MINIMUM.
7. ALL RADIUS ELBOWS WITH A RECTANGULAR CROSS SECTION SHALL HAVE AN INSIDE RADIUS OF NOT LESS THAN THE WIDTH OF THE DUCT OR SHALL BE FURNISHED WITH SINGLE BLADE DUCT VANES. VANE SPACING SHALL BE 1/3 THE DUCT WIDTH ON WIDTHS UP TO 35 INCHES. FOR DUCTS 36 INCHES AND OVER VANE SPACING SHALL BE 1/4 THE DUCT WIDTH.
8. ALL SQUARE ELBOWS SHALL BE EQUIPPED WITH AIR FOIL TYPE OR DOUBLE THICKNESS TURNING VANES PRE-ASSEMBLED ON RUNNERS. VANES FOR DUCTS UP TO 18 INCHES WIDTH SHALL HAVE AN INSIDE RADIUS OF 2 INCHES AND AN OUTSIDE RADIUS OF 1 INCH. DUCTS 19 INCHES AND OVER SHALL HAVE VANES WITH AN INSIDE RADIUS OF 4 INCHES AND AN OUTSIDE RADIUS OF 2 INCHES.
9. PROVIDE FLEXIBLE CONNECTIONS NOT LESS THAN FOUR INCHES WIDE, CONSTRUCTED OF FIREPROOF, HEAVY WATERPROOF WOVEN ASBESTOS OR GLASS FABRIC, AT THE INLET AND OUTLET CONNECTION OF EACH FAN UNIT. SECURELY FASTENED TO THE UNIT AND TO THE DUCTWORK BY A GALVANIZED IRON BANK PROVIDED WITH TIGHTENING SCREWS. INSTALL THE FLEXIBLE CONNECTION SO THERE WILL BE NO METAL TO METAL CONTACT, NOR STRETCHING OF THE FLEXIBLE MATERIAL.
10. UNLESS OTHERWISE INDICATED ON DRAWINGS HANGERS AND SUPPORTS SHALL CONFORM WITH THE SMACNA DUCT MANUAL.
11. SEALING DUCTWORK:
  - A. LOW PRESSURE DUCTWORK: SEAMS SHALL BE TAPED OR CAULKED AFTER INSTALLATION WHEN REQUIRED TO PREVENT AIR LEAKAGE.
  - B. EXTERIOR DUCTWORK: EXTERIOR DUCTWORK EXPOSED TO THE WEATHER SHALL HAVE ALL SEAMS SOLDERED.
12. SYSTEM BALANCING SHALL BE PERFORMED UNDER THE DIRECTION OF THIS CONTRACTOR. ALL SUPPLY OUTLETS SHALL BE ADJUSTED TO WITHIN 10% OF THAT SHOWN ON PLAN.



KEYED NOTES: UTILITY

1. EXTEND NEW 4" SEWER LINE FROM BUILDING AND TAP INTO EXISTING SANITARY SEWER MAIN AS APPROVED AND DIRECTED BY THE CITY. COORDINATE WITH LOCAL GOVERNING OFFICIALS AND CONFORM TO THEIR REQUIREMENTS. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF EXISTING SEWER MAIN BEFORE SETTING ANY NEW INVERTS. *NOTE - 12" HIGHER SEWER TAPED LINE, IF AVAILABLE*
2. EXTEND NEW 1" WATER LINE TO DISCHARGE OF EXISTING METER THIS APPROXIMATE LOCATION. INSTALL ISOLATION VALVES ON EACH SIDE FOR SERVICING, WITH ALL ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE.
3. NEW NATURAL GAS SERVICE FOR 130 CFH, CONNECT TO THE DISCHARGE OF EXISTING GAS METER. CONTRACTOR SHALL VERIFY THE SIZE OF EXISTING METER
4. INSTALL GAS LINE ON 4" X 4" X 12" LONG TREATED REDWOOD SKIDS ON EXISTING ROOF. HOT MOP SKID INTO EXISTING ROOF.
5. INSTALL ONE-WAY CLEANOUT TO GRADE.
6. INSTALL TWO-WAY CLEANOUT TO GRADE.
7. SEE PLUMBING PLANS FOR CONTINUATION OF PIPING.
8. *PROVIDE 4" O.C. WALLS, 4-0" HIGH & GAS METER.*

MECHANICAL CONTRACTOR NOTE:

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION DISCUSSIONS WITH LOCAL UTILITIES ENGINEERING OFFICIALS, AND PREVIOUS CONSTRUCTION DRAWINGS, PROVIDED TO ARCHITECT. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES IN THE IMMEDIATE VICINITY OF THE PROPOSED BUILDINGS MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THE DRAWING. IF ADDITIONAL LINES ARE ENCOUNTERED, THEY SHALL BE EXPOSED AND IDENTIFIED BY THIS CONTRACTOR. WHERE ADDITIONAL LINES AND/OR DIFFERING LOCATIONS ARE ENCOUNTERED, THIS CONTRACTOR SHALL REQUEST THAT THE ARCHITECT MAKE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES. GAS COMPANY SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF NATURAL GAS PIPING. ALL LINES ENCOUNTERED THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED TO CLEAR CONSTRUCTION (IF ACTIVE) AND SHALL BE REMOVED IF INACTIVE BY THIS CONTRACTOR UNDER THIS CONTRACT. CONTRACTOR SHALL PAY FOR ANY AND ALL COSTS OF PERMITS, LINE EXTENSIONS, METER INSTALLATION, ETC., AS REQUIRED BY LOCAL GOVERNING UTILITIES ENGINEERING OFFICIALS AND LOCAL GOVERNING GAS COMPANY.

GENERAL MECHANICAL UTILITIES NOTES:

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO MECHANICAL UTILITIES INCLUDING: TRENCHING; BACKFILL; SUPPORTS; CLEANOUT; PADS; SERVICE STOPS AND BOXES; SERVICE LINES; TESTING; CLEANING; AND STERILIZING.

MINIMUM DEPTHS BELOW GRADE (COVER): GAS -- 18" WATER -- 24" SEWER -- 36"

REFER TO ARCHITECTURAL PLANS FOR FINISH AND EXISTING GRADES.

THIS CONTRACTOR SHALL COORDINATE CUTOFF OF EXISTING UTILITIES FOR NEW CONNECTIONS WITH LOCAL UTILITIES ENGINEERING OFFICIALS AND SHALL CONFORM TO THEIR REQUIREMENTS.

UTILITIES CONNECTION POINTS ARE APPROXIMATE ONLY. CONTRACTOR SHALL SATISFY HIMSELF AS TO EXISTING SITE CONDITIONS BEFORE SUBMITTING HIS PRICE. VERIFY EXACT SIZE, LOCATION AND DEPTH OF EXISTING SEWER BEFORE SETTING ANY NEW INVERTS. VERIFY EXACT SIZE, LOCATION AND PRESSURE OF EXISTING WATER AND GAS MAINS.

MECHANICAL CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH LANDSCAPE PLANS TO MISS ALL LARGE TREES, PLANTERS, ETC.

MECHANICAL CONTRACTOR SHALL SLOPE ALL SEWER MAINS AS REQUIRED TO INSURE CONNECTION TO EXISTING SEWER MAIN WITH ADEQUATE SLOPE.

GENERAL MECHANICAL NOTES:

PROVIDE TURNING VANES IN ALL SQUARE ELBOWS.

GENERAL PLUMBING NOTES:

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROUGH-IN AND CONNECTION OF EQUIPMENT REQUIRING COLD WATER, HOT WATER, INDIRECT WASTE, DIRECT WASTE AND VENT, DRAIN PIPING, AND NATURAL GAS PIPING.

COORDINATE ALL PIPING BELOW SLAB WITH STRUCTURAL DRAWINGS.

ALL PIPING SHALL BE CONCEALED EXCEPT WHERE EXPRESSLY NOTED.

TAKE SPECIAL CARE TO KEEP VENTS THROUGH ROOF AWAY FROM ALL FRESH AIR INLETS ON ROOFTOP EQUIPMENT.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL PLUMBING AND MECHANICAL SYSTEMS SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND O.S.H.A. STANDARDS.

Drawings and Specifications are instruments of service and shall remain the property of the Architect whether the same are used or not. The drawings shall not be used on other projects, for reproduction or for completion of this project.



## SPECIFICATIONS

### GENERAL CONDITIONS:

Document A201 of the American Institute of Architects, TWELFTH EDITION, shall be a part of these specifications to the same extent as if found herein.

### SUPPLEMENTARY CONDITIONS:

**Independent Contractor:** The Owner, acting as its own Contractor for this project, represents and warrants that it is licensed by the State of New Mexico to perform the construction work under this agreement.

**Owner's Designated Representative:** The Owner shall designate a representative authorized to act in its behalf with respect to the project. The Owner or its representative shall examine documents submitted by the Architect and shall render decisions pertaining thereto promptly, to avoid unreasonable delay in the progress of the Architect's work.

**Drawings:** The Contractor shall be required to follow the plans referred to, using the data and dimensions shown thereon, in lieu of scaling the measure of the drawings, and to furnish all materials and execute all Work strictly in accordance therewith, and with the quality of materials set forth herein.

**Specifications:** The specifications are presented in brief outline form. The omission of repetitions paragraphs dealing with workmanship, scope of work, reference to drawings, technical materials, etc., shall not relieve each Contractor from the performance of that Work to the best standards of the trade. Trade names are used to indicate a level of quality and shall be used as a standard only. Products by other manufacturers of equal or better may be substituted by the Contractor upon approval of the Architect.

**Contractor's Responsibility to Familiarize Himself with Existing Conditions:** The Contractor shall familiarize himself with the existing conditions at the Project in order to allow him complete the Work within the scope of the Contract Documents. Any questions arising during the construction process in regard to the intent of the Contract Documents shall be brought up in writing for clarification with the Architect.

**Substitutions:** After the Contract has been executed, the Owner and the Architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the General Requirements of the Specifications (Division 1). By making requests for substitutions, the Contractor (a) represents that the Contractor has personally investigated proposed substitute product and determined that it is equal or superior in all respects to that specified; (b) represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified; (c) certifies that the cost data presented is complete and includes all related costs under this Contract but excludes costs under separate contracts, and excludes the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent; and (d) will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

**Insurance:** Do not commence Work until required insurance has been obtained and paid for and until insurance policies have been approved by the City of Albuquerque as to companies, amounts, coverage and form. Do not permit any subcontractor to commence Work on any subcontract until such insurance has been obtained and approved. Provide adequate Workmen's Compensation Insurance for employees engaged in Work who may come within protection of Workmen's Compensation Law, and where practicable, Employer's General Liability Insurance for employees not so protected. City of Albuquerque shall maintain insurance in the following types: Public Liability Insurance, Property Damage Insurance, Automobile Public Liability Insurance.

**Builder's Risk Insurance:** Until the Work is completed and accepted by the Owner, the City of Albuquerque shall purchase and maintain property insurance upon the Work at the site to the full insurable value thereof. This insurance shall include the interests of the City, the Contractor, the subcontractors, the sub-subcontractors in the Work and shall insure against the perils of fire, extended coverage, vandalism, and malicious mischief.

### DIVISION 1: GENERAL REQUIREMENTS

**Work Sequence:** Construct Work to accommodate the Owner's and other Tenants' use of the premises during the construction period. Coordinate the construction schedule and operations with the Owner's representative. Major pedestrian routes and access to the building shall be maintained to the fullest extent possible.

**Coordination of Work with Others:** The Contractor shall verify all dimensions and conditions at the job site and notify the Architect of any errors, omissions, ambiguities, discrepancies or conflicts for corrections before Work is started. The General Contractor shall coordinate the Work of all trades and all subcontractors on the job.

**Safety and Protection of Adjacent Work:** The Contractor shall be responsible for the method and safety of his Work and the safety of personal and property during the performance of his Work both during and after working hours. Contractors are to exercise all precautions necessary to protect adjacent Work and buildings. All equipment of Owner and Tenants shall be thoroughly protected from water, dust, debris, etc.

**Superintendence:** The Contractor's superintendent shall be capable of reading and interpreting the drawings and specifications and shall be competent to direct the correct execution of the Work.

**Permits, Inspections and Regulations:** The Contractor shall obtain and pay for all permits, licenses, and inspections necessary for the prosecution of this Work. The Contractor shall give all notices for inspection, and comply with all laws, ordinances, codes, rules and regulations bearing on the conduct of his Work.

**As Built Drawings:** The subcontractors for electrical work, plumbing and air conditioning must submit two copies of "as-built" drawings upon completion of their Work. Signed working drawings of the electrical and mechanical subcontractors will be acceptable. All switches and controls shall be properly identified.

**Clean-up:** Contractors shall at all times keep the premises free from the accumulation of waste materials and rubbish caused by their operation. Upon completion of the Work, the premises must be left in a clean condition, all finished surfaces cleaned and ready for occupancy.

### DIVISION 2: SITE WORK

**Demolition:** Demolition, disassembly and removal includes, but is not limited to, carefully demolishing existing items as noted in the plans, and others as may be required, while maintaining the integrity of the remaining building, finishes, etc. Except as identified by Owner, or where indicated for reuse, all demolished equipment and materials shall become the property of the General Contractor and shall be removed from the site immediately after removal.

**Site Preparation:** The soils on which footings and floor slabs are to bear shall be densified prior to placement of structural loads. The recommended procedure is as follows:

- The entire building site and 2 feet outside the building perimeters shall be overexcavated 2 feet below existing grade.
- The exposed cut surfaces to receive fill shall be moistened to near optimum moisture. The surface shall then be densified with 10 coverages of a ten ton (minimum weight) vibratory roller.
- Structural fill shall be used to bring overexcavated areas to design grade. Structural fill shall consist of site soils placed in eight inch thick layers, adjusted to near optimum moisture and compacted to 95 percent of maximum density as established by ASTM D-1557.
- The on-site soils are suitable for use as backfill soils and structural fill; however, these soils may require selective stockpiling during the excavation process. All backfill material shall be non-expansive, free of vegetation and debris and contain no rocks larger than 6 inches. Gradation of the backfill materials, as determined in accordance with ASTM D-422, shall be as follows:

Sieve Size	Percent Passing
3-inch	90-100
No. 4	60-100
No. 200	15-40

- The plasticity index shall be no greater than 10 when tested in accordance with ASTM D-423 and D-424.
- Fill or backfill, consisting of soil approved by the Soils Engineer, shall be placed in controlled compacted layers with approved compact on equipment. All compaction shall be to a minimum of 95 percent of the maximum dry density determined in accordance with ASTM D-1557 test method.
- Tests for degree of compaction shall be determined by the ASTM D-1556 method or ASTM D-2922. Observation and field tests shall be carried on during fill and backfill placement by the Soils Engineer to assist the Contractor in obtaining the required degree of compaction. If less than 95 percent is indicated, additional compaction effort shall be made with adjustment of the moisture content as necessary until 95 percent compaction is obtained.
- Wherever, in the opinion of the Soils Engineer, an unstable condition is created, either by cutting or filling, the Work shall not proceed in that area until an investigation has been made and the grading plan revised if found necessary.

**Pavement and Walks:** All concrete pavement and walks shall be broom finish unless otherwise shown on drawings. Concrete strength, 3000 psi at 28 days, 4" thick minimum with 6x6/1.4-1.4 W/F, 8" turn down at edges with 1-#4 rebar continuous, unless otherwise shown on drawings.

**Roadbed:** Driveway as shown on drawings shall be on fill or backfill placed in controlled compacted layers with approved compaction equipment, compacted to a minimum of 95% of the maximum dry density as specified in section 02200, Earthwork. Driveway shall be minimum of 2" "base rock" covered with 2" of "crusher fines", with asphalt 2" paving as approved by soils engineer.

**Moisture Protection:** Precautions shall be taken during and after construction to minimize saturation of the foundation soils. Positive drainage shall be established away from the exterior walls of the structures. All utility trenches leading into the structures shall be backfilled with compacted fill. Special care shall be taken during installation any subfloor sewer and waterlines to reduce the possibility of future subsurface saturation.

### DIVISION 3: CONCRETE

**Form Work:** Use standard acceptable lumber, construction methods, form oil, etc. to insure concrete foundations to be the shaped and sizes as indicated on plans.

**Portland Cement:** Specification C150-49, Type 1 or 1-A.

**Concrete Strength:** 3,000 psi at 28 days

**Reinforcing Steel:** Deformed, domestic, intermediate billet ASTM A615, SD60, 60,000 min. y.s.

**Steel Fabric Reinforcing:** 6 x 6" mesh, 1.4-1.4. Use in slabs as noted. All reinforcing splices shall have a lap of 32 bar diameters unless shown otherwise on the drawings.

**Placing Floor Slabs:** Sprinkler fill with water. Place concrete base to required thickness. Strike off at proper levels to receive finish specified. Finish floors monolithically.

**Placing Concrete:** Place no concrete until foundations, forms and reinforcing steel are approved by Architect. Handle concrete from mixer to deposit as rapidly as practicable, by methods which will prevent separation or loss of concrete against frost and rapid drying.

### DIVISION 4: MASONRY

All masonry shall be installed, and repaired as required, by experienced brick masons, to match existing brick work in every way, including color, mortar, texture, size and pattern. Where practicable, existing (removed) brick may be reused providing it is sound and free from defects.

### DIVISION 5: METALS

**Miscellaneous Metals:** Items of miscellaneous metals not described shall be as follows: bolts, metal furring channels, nuts, anchors, angles, shields, cover plates, clips, joist hangers, etc. The items shall be provided where necessary to meet good construction practices.

### DIVISION 6: WOOD AND PLASTICS

All lumber shall meet the quality standards of WMPA Grading Rules.

**Studs:** "Stud" grade, Ponderosa Pine.

**Roof Joists:** Ponderosa Pine, #1 or Better.

**Roof Sheathing:** C-D-X plywood, 5/8" thick.

**Rough Carpentry:** All lumber shall meet the quality standards of Western Wood Products Association Grading Rules. Lumber must be sound, thoroughly seasoned, well manufactured and free of warp that cannot be corrected in the process of bridging or nailing. Unless otherwise noted, wood work exposed to view shall be dressed four sides.

**Finish Carpentry:** All wood shall be dressed, free of stains, marks and blemishes. No weather stained or sun bleached members shall be used. All surfaces shall be sanded to receive specified finishes.

### DIVISION 7: THERMAL AND MOISTURE PROTECTION

**General:** Contractor shall maintain existing thermal and moisture protection and shall replace or restore any thermal or moisture protection damaged or removed during the construction process. Caulk and seal all penetrations with appropriate materials. Any new roof penetrations shall be sealed using metal flashings and sealant. Caulk and seal at the intersection of all dissimilar materials to provide finished, airtight, water resistant joints.

**Batt Insulation:** R-30 fiberglass batt insulation at all conventional framing roof areas. Full thick R-19 fiberglass batt insulation in exterior frame walls.

**Rigid Insulation:** "Insulbead" expanded polystyrene molded bead board, R = 4/inch.

**Roofing:** Built-up roofing shall be 3-ply asphalt and pea gravel (light color) surface, GAF 15-year bonded, with 2-year Roofer's guarantee and flashing endorsement.

**Sheet Metal:** Flashing metal shall be 26 gauge GI. Install plumb, straight, true and weathertight. Flash around pipes and ducts through-out roof. Examine surfaces on or against which this work is to be applied and notify the Architect of conditions detrimental to proper installation.

### DIVISION 8: DOORS AND WINDOWS

**Metal Doors and Frames:** Steelcraft, L-10, full flush 18 gauge door with full Honeycomb core, with R series 16 gauge frame as shown in details.

**Doors:** Solid Core Masonite, Paint Grade as manufactured by Albuquerque Door Co., or equal.

**Hardware:** Contractor shall coordinate keying, which shall be as required by Owner and Tenant. Provide Yale 5300 Series, Carolina Trim Design with US260 finish, Passage Sets: CA5301 - US260.

**Glazing:** Glazing shall be as shown in drawings. Provide safety glazing materials in compliance with the Consumer Products Safety Commission's Safety Standard for Architectural Glazing Materials. Unless otherwise noted or required, glazing materials shall be:

Clear Sheet Glass: 1/8" minimum.  
Tempered Glass: Heat treated.  
Laminated Glass: Two sheets clear float with 30 mil film.

Install in accordance with frame manufacturer's and glass manufacturer's recommendations with sealant compound or compression gaskets and clean all surfaces.

**Windows:** Alenco Series 380, or equal, in sizes as shown in schedule, anodized, with screens.

**Patio Doors:** Skotty 4000 or equal, as shown in schedule, anodized, with screen.

**Steel Sectional Door:** Windsor Therma-Force #2001 with 7" x 24" double glazed clear polycarbonate window inserts. (See elevation).

**Operator:** Liftmaster Model BTL one H.P. w/3-button pushbutton station. Obtain shop drawings for door and installation.

### DIVISION 9: FINISHES

**Gypsum Board:** Kaiser Gypsum or equal in thickness as noted. Use square or recessed edges and "perfa-tape" method. Use recessed edge type in lengths as required to produce a minimum of vertical joints for facing. Use USG No. 100 "perfa-bead" for metal casings and USG corner beads as required. Finish to be "light orange peel" or as directed by Architect and Owner.

**NOTE:** FOR EXTERIOR WALLS WITHIN 20' OF PROPERTY LINE: PROVIDE ONE HOUR FIRE RATED WALLS: 5/8" type "X" gypsum board interior in accordance with UBC Table 43-B Item #71, and 7/8", three coat exterior stucco in accordance with UBC Table 43-B Item #77.

**Exterior Stucco:** To be 3 coat work and a minimum of 7/8" thickness. Scratch coat to be one part Portland Cement to not less than 3 or more than 4 1/2 parts by volume damp, loose, clean sand (ASTM standard) and not less than 25% by volume of lime putty to a 3/8" thickness. Third coat to be same as scratch coat and shall be applied 96 hours after brown, second coat. Add no lime to the final coat. Color and texture to be selected by Architect. Dampen all masonry or stucco before application of the next coat of stucco. Keep each coat damp for 96 hours after application.

**Exterior Stucco Mesh:** To be standard "Key Mesh" 1.8 lbs. per square yard galvanized.

**Metal Lath:** To be 3.4 lbs. per square yard flat expanded paint and with 18 gauge galvanized tie wires. Furring channels 3/4" C.R. .276 #1 at 16" O.C.

**Metal Accessories:** To be U. S. Gypsum, Gold Bond or Milcor in shapes as called for on drawings and where necessary to insure a sound stucco and plaster application. Expansion joints to be U. S. Gypsum No. 15. Stucco shall be executed to have a smooth flowing, rounded edge appearance. Bullnose metal beading at overlapping of dissimilar materials only.

**Color Mix:** As selected by Architect.

**Carpeting:** Provide carpet and pad, or carpet for direct glue down as shown in Room Finish Schedule, and as selected by Owner and Architect.

**Painting:** Shall be done by expert mechanics to the best standards of the trade. All newly installed walls, door frames, etc., shall be finished. Before painting, remove hardware, accessories, plates, light fixtures and similar items to provide ample protection of such items. Do not apply paint to surface which is damp or when temperature is below 45° F. Sandpaper surfaces smooth. Fill nail holes and other holes and cracks. Finish heating registers and other similar items with a spray gun in such a manner to thoroughly cover interior surfaces and vanes normally visible. At completion of construction, touch-up and restore finish (newly installed and existing) where damaged or blemished and leave in good condition. All stained surfaces to be wiped by hand with a dry cloth.

**Painting and Staining Schedule:** All paints shall be Wellborn and all stains shall be Samuel Cabot's Stains, or equal. Colors as selected by Architect. Substitutions of colors from color selections shall match exactly the sample provided. All stained application shall have sample on wood to be approved by the Architect before final work is done.

**Interior Gypsum Wallboard:** One coat primer/sealer, two coats vinyl acrylic latex flat (Wellborn Pax Plus or Dek I & O).

**Interior Gypsum Wallboard, Wet Areas:** One coat primer/sealer, two coats vinyl acrylic latex semi-gloss (Wellborn Interior Latex Satin Enamel or Par-Gloss Satin Latex).

**Interior Ferrous Metals:** One coat white metal primer or zinc chromate primer and two coats vinyl acrylic latex semi-gloss (Wellborn Interior Latex Satin Enamel or Par-Gloss Satin Latex).

**Galvanized Metal:** One coat vinyl wash primer or zinc chromate primer and two coats acrylic latex semi-gloss (Wellborn Preferred Stock Semi-gloss or Pax-Glo Semi-gloss).

**Interior Wood Doors:** One coat Wellborn #85 white primer and two coats Atkyd semi-gloss.

**Interior Painted Wood:** One coat enamel undercoat (or Wellborn Sudden Seal) and two coats acrylic latex (Wellborn Preferred Stock Semi-gloss or Pax-glo Semi-gloss).

### DIVISION 10: SPECIALTIES

Not Applicable

### DIVISION 11: SPECIALTIES

Not Applicable

### DIVISION 12: FURNISHINGS

By Others.

### DIVISION 13: SPECIAL CONSTRUCTION

Not Applicable

### DIVISION 14: CONVEYING SYSTEMS

Not Applicable

### DIVISION 15: MECHANICAL

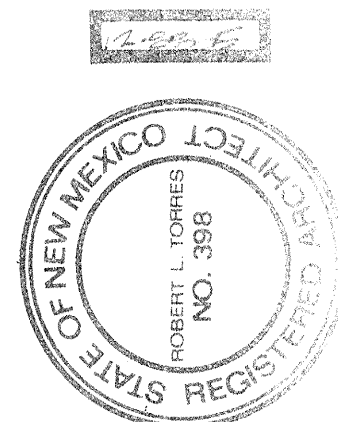
### DIVISION 16: ELECTRICAL

Furnish all labor, materials, service equipment and appliances required to complete the installation of the complete electrical system in accordance with the specifications and the construction documents.

Installation, materials, equipment and workmanship shall conform to all applicable provisions of the national Electric Code (NEC), the National Electric Safety Code (NESC) and the terms and conditions of the electric utility and other authorities having lawful jurisdiction pertaining to the work required.

All materials, appliances, equipment or devices shall conform to the applicable standards of Underwriter Laboratories, Inc., (U.L.). All materials and equipment shall be the product of the same manufacturer and shall be new.

Fabrication, erection and installation of the complete electrical system shall be done in a first class workmanlike manner by qualified personnel experienced in such work and shall proceed in an orderly manner so as not to hold up the progress of the project.



REG

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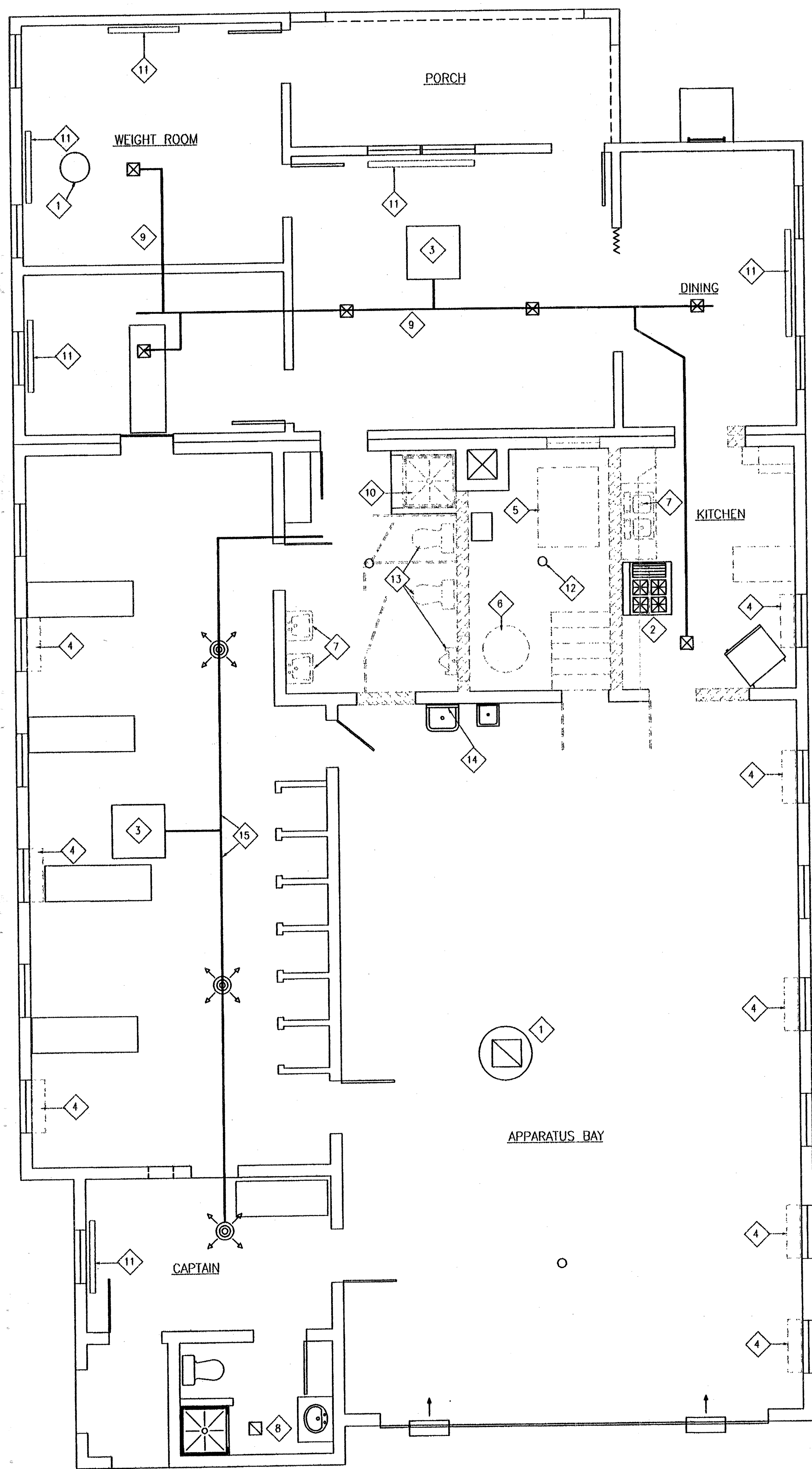
ROBERT L. TORRES & ASSO-  
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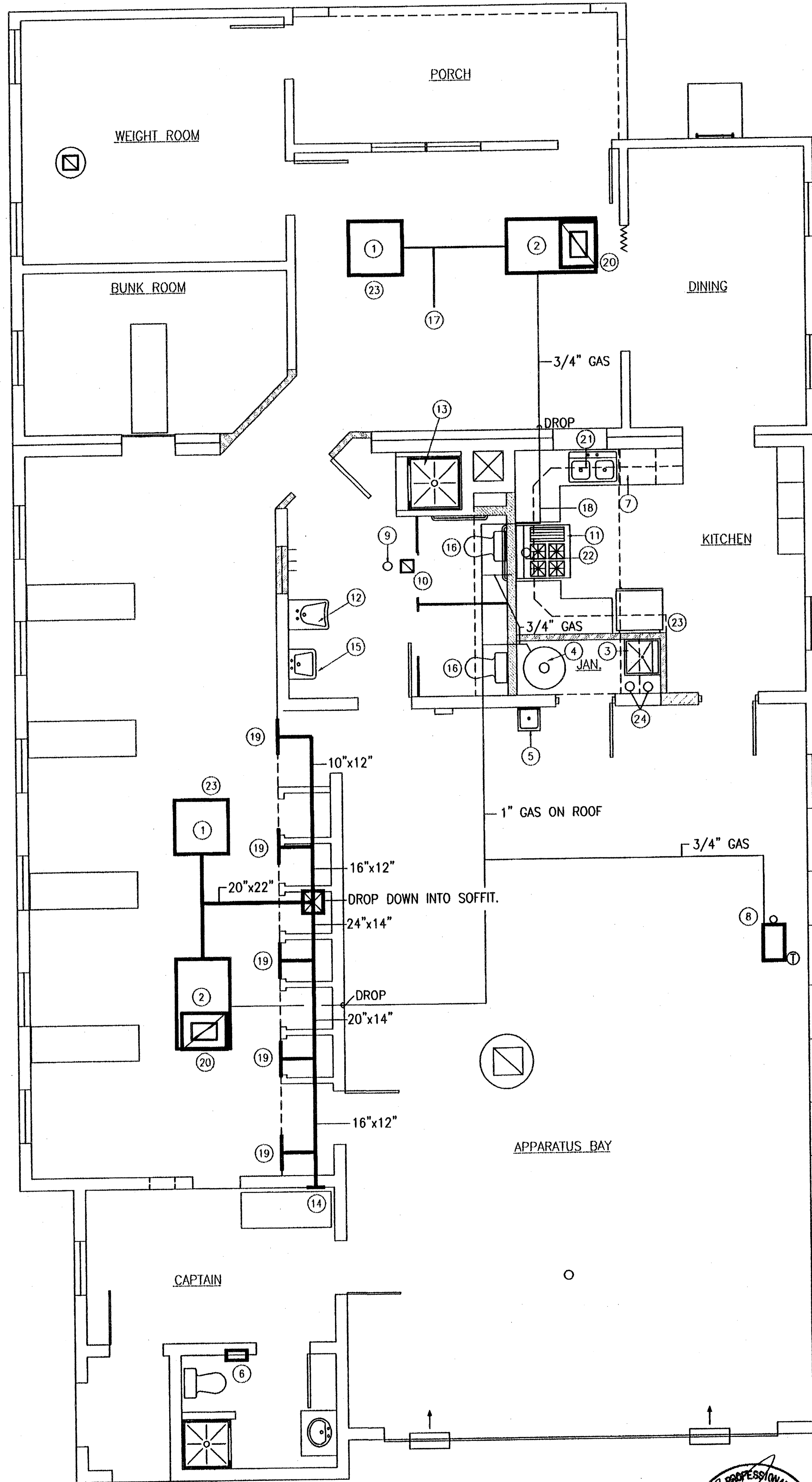
ADDITION TO FIRE STATION  
ALBUQUERQUE, NEW MEXICO

M-3





**DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"



**FLOOR PLAN**  
SCALE: 1/4"=1'-0"

## Keyed Notes

1. EVAPORATIVE COOLER, ARTIC CIRCLE ES630C, 3/4 HP, 2SP, 3800 CFM @ 0.5" SP.
2. FURNACE, REZNOR RGB 100, 100 MBH INPUT, 3/4 HP, 2000 CFM @ 0.5" SP.
3. MOP BASIN, FIAT MSB-2424.
4. NEW 40 GAL. GAS WATER HEATER WITH 3" FLUE.
5. EXISTING ELECTRIC WATER COOLER.
6. TOILET ROOM WALL HEATER, 1100 WATTS.
7. DISHWASHER.
8. GAS UNIT HEATER, REZNOR F-50, 50 MBH WITH 3" FLUE THRU ROOF.
9. EXISTING FLOOR DRAIN.
10. CEILING TOILET FAN, GREENHECK SP-210, 100 CFM, 4" DUCT TO ROOF CAP.
11. RELOCATED EXISTING GAS RANGE.
12. NEW HC LAVATORY, AMERICAN STANDARD 9140.013 W/ 7830.372H FAUCET. INSULATE ALL PIPING UNDER HC SINK.
13. NEW SHOWER, KOHLER PUEBLA K-1596 W/ BRADLEY 1-C-6'-0"-HC-3FC TRIM.
14. SIDEWALL REGISTER, 16"x12", 600 CFM.
15. NEW LAVATORY, AMERICAN STANDARD LEDGEMERE 5300.033 W/ 2605.293 FAUCET.
16. NEW TOILETS, AMERICAN STANDARD CADET 2292.100 & CADET II 17" H EL1.6.
17. CONNECT NEW DUCTWORK FROM FURNACE & EVAP. COOLER TO EXISTING DUCTWORK.
18. CONNECT NEW 1" GAS LINE ON ROOF TO EXISTING GAS.
19. SIDEWALL REGISTER, 22"x12", 640 CFM.
20. RETURN GRILLE, 30"x24", 2000 CFM, DROP DUCT FROM FURNACE OPENING TO RETURN AIR GRILLE.
21. KITCHEN SINK, ELKAY LR-3322, W/ LK-2423 FAUCET.
22. RUN 6" DUCT FROM KITCHEN HOOD TO ROOF CAP.
23. RUN 1/4" WATER WITH SHUT-OFF TO ICEMAKER & EVAP. COOLERS.
24. RUN TWO 6" ROUND COMBUSTION AIR DUCTS TO ROOF CAPS.

## Demolition Notes

1. EXISTING ROOFTOP FAN SHALL BE LEFT IN PLACE.
2. EXISTING 3/4" GAS LINE SHALL BE RELOCATED TO NEW STOVE LOCATION.
3. REMOVE EXISTING EVAPORATIVE COOLER AND ASSOCIATED PIPING.
4. REMOVE STEAM WALL HEATERS AND ASSOCIATED PIPING.
5. REMOVE EXISTING 315 MBH, 15 PSI BOILER, 8" FLUE AND ASSOCIATED PIPING.
6. REMOVE EXISTING 40 GAL. GAS WATER HEATER, 3" FLUE AND ASSOCIATED PIPING.
7. REMOVE EXISTING SINK AND ASSOCIATED PIPING.
8. EXISTING TOILET FAN ON ROOF SHALL BE LEFT IN PLACE.
9. EXISTING DUCTWORK, INSULATION AND DIFFUSERS SHALL BE LEFT IN PLACE.
10. REMOVE EXISTING SHOWER UNIT AND ASSOCIATED PIPING.
11. EXISTING ELECTRIC BASEBOARD HEATER AND THERMOSTAT SHALL LEFT IN PLACE.
12. INSTALL REMOVABLE PLUG IN FLOOR DRAIN.
13. REMOVE EXISTING PLUMBING FIXTURES.
14. REMOVE SINK, CAP HW, CW, & DRAIN LINES AT WALL.
15. REMOVE DUCTWORK AND ASSOCIATED DIFFUSERS.

## Specifications

### 15010 - GENERAL PROVISIONS

All work shall conform to the Uniform Plumbing code and Gas Ordinance of the State of New Mexico, the Uniform Mechanical Code, the Uniform Building Code, the Life Safety Code, and any other applicable codes and ordinances. The mechanical contractor shall apply for all permits and certificates of inspection for work shown on the mechanical drawings.

### 15060 - PIPE AND PIPE FITTINGS

Exterior water - Type K hard copper, ASTM B-88  
Interior water - Type L hard drawn copper, ASTM B-88  
Soil & Waste - Cast iron hubless, ASTM A-74  
Natural Gas - Schedule 40, black steel pipe, ASTM A-197

### 15180 - PIPING INSULATION

Domestic hot water - 1-1/2" fiberglass with all service jacket  
15190 - DUCT INSULATION

Interior ductwork - 1-1/2" fiberglass wrap  
Outside ductwork - 2" Styrofoam w/alum. cover

### 15402 - DOMESTIC WATER SYSTEMS

Sterilize all domestic water lines with 250 PPM chlorine for at least 8 hours. The complete water systems shall be hydrostatically tested at a pressure of 150 psi and shall show no loss in pressure for a period of one hour.

### 15404 - SOIL AND WASTE PIPING SYSTEMS

All vent pipes shall be flashed at the roof and traps shall be installed at all fixtures.

### 15045 - NATURAL GAS PIPING SYSTEMS

Gas trains connecting gas fired equipment shall conform to UL requirements. Ventilated conduits shall be used as required by the Uniform Mechanical Code.

### 15800 - AIR DISTRIBUTION

All sheetmetal ductwork shall be constructed in accordance with SMACNA standards.

Flexible ductwork shall be Thermoflex Type N-KH or approved equal. Gas flue vents shall be Type B for natural draft appliances.

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CITY OF ALBUQUERQUE FIRE DEPARTMENT

IMPROVEMENTS TO  
**FIRE STATION NO. 6**

623 Griegos NW  
Albuquerque, New Mexico

Description

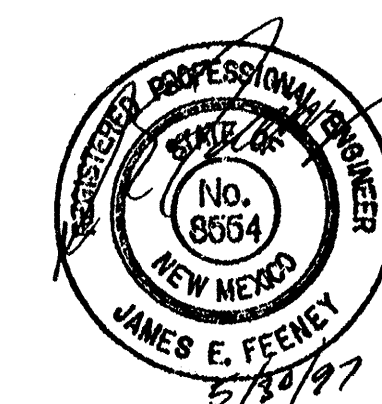
DEMOLITION PLAN,  
FLOOR PLAN

Date MAY 30, 1997

Drawings as instruments of service shall remain the property of the architect. They are not to be used or reproduced without written consent of the architect.

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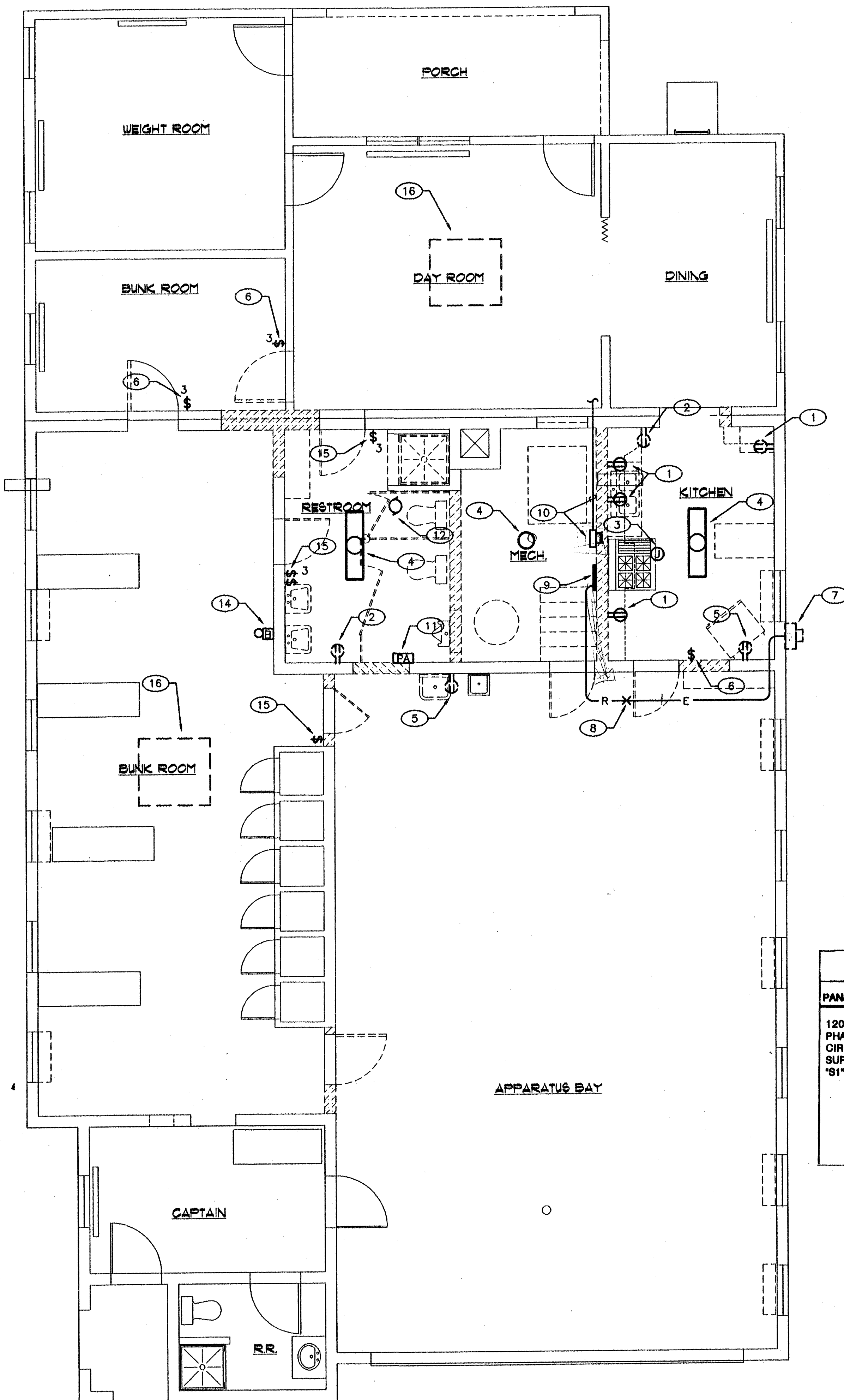
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SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	CEILING OR WALL BRACKET FIXTURE. SEE FIXTURE SCHEDULE.
	FLUORESCENT OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
	POLE MOUNTED FIXTURE. SEE FIXTURE SCHEDULE.
	EXIT LIGHT. ARROWS INDICATE DIRECTIONAL ARROW ON FIXTURE.
	SINGLE POLE WALL SWITCH, UP +48".
	THERMAL O.L. SWITCH. "WP" INDICATES WEATHER PROOF.
	PILOT LIGHT SWITCH
	DIMMER SWITCH. SEE PLANS AND SPECS FOR CHARACTERISTICS
	KEYED SWITCH, UP +48". SEE PLANS
	THREE WAY SWITCH, UP +48" TO CENTER.
	CALL IN SWITCH UP +48" UNLESS OTHERWISE INDICATED. SEE PLANS AND SPECS.
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
	FOURPLEX CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
	SPECIAL PURPOSE OUTLET SEE PLANS FOR RATINGS
	250V-2P-4W SPECIAL PURPOSE GROUNDING OUTLET. AMPERAGE AS INDICATED.
	JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
	NON-METALLIC, MULTI SERVICE RACEWAY - SEE PLANS.
	TELEPHONE OUTLET, UP +18" UNLESS OTHERWISE INDICATED.
	COMPUTER OUTLET, UP +18" UNLESS OTHERWISE INDICATED. EXTEND 1" C. TO ABOVE ACCESSIBLE CEILING SPACE.
	WALL MOUNTED SPEAKER. SEE PLANS.
	TELEVISION OUTLET. DEVICE BY OTHERS. STUB 1" EMPTY CONDUIT ABOVE ACCESSIBLE CEILING SPACE.
	J-BOX ABOVE LAY-IN CEILING W/ FLEX CONDUIT TO LAY-IN FIXTURES
	FIRE ALARM PULL STATION UP +48" SEE SPECS AND PLANS - ADDRESSABLE
	FIRE ALARM STROBE UP +80", SEE SPECS AND PLANS
	FIRE ALARM HORN/STROBE UP +80" SEE SPECS AND PLANS
	FIRE ALARM SMOKE DETECTOR. COMINATION IONIZATION/PHOTOELECTRIC TRANSFORMER. SEE PLANS AND RISER DIAGRAM.
	THERMOSTAT, UP 48" UNLESS OTHERWISE INDICATED. COORDINATE WITH MECHANICAL. "N" INDICATES NIGHT STAT.
	HEAT DETECTOR - FIRE ALARM. SEE SPECS AND PLANS - ADDRESSABLE
	DISCONNECT SWITCH. SIZE AND POLES FOR LOAD CONNECTED.NEMA 3R
	SPECIAL SYSTEMS CABINET W/ HINGED DOOR AND KEYED LOCK
	ELECTRIC PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	CEILING MOUNTED SPEAKER. SEE PLANS AND SPECS.
	DUPLEX FLOOR OUTLET, SEE PLANS FOR CHARACTERISTICS.
	FLUSH FLOOR COMPUTER OUTLET. SEE PLANS AND SPEC.
	FLUSH FLOOR TELEPHONE OUTLET. SEE PLANS AND SPEC.
	MOTOR CONTROLLER SIZE AND POLES FOR MOTOR CONTROLLED.
	FUSE AND SWITCH CONSRTUCTION PANELBOARD. SEE PANELBOARD SCHEDULE.
	MOTOR CONNECTION, FRACTIONAL H.P. (LESS THAN 1/3 H.P.)

FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOGUE #	DESCRIPTION/LOCATION	LAMP TYPE	WATTAGE	QTY.	REMARKS
A	DAY-BRITE	CLW432-120-1/MB	FLUORESCENT CLOUDLINE WRAP AROUND	F032/TW 3500	32	4	SURFACE
B	DAY-BRITE	T282-188-4/MB-WG	4" FLUORESCENT STRIP	F032/TW 3500	32	2	SURFACE FURNISH WITH WIRE GUARD
C	DAY-BRITE	CLW432-120-1/MB	FLUORESCENT CLOUDLINE WRAP AROUND	F032/TW 3500	32	2	SURFACE
D	DAY-BRITE	EB252-WO-120-1/MB	FLUORESCENT WALL BRACKET	F032/TW 3500	32	2	WALL ABOVE MIRROR
E	DAY-BRITE	8-TUUC1255120R8	30" UNDER CABINET	T8	25	1	UNDER CABINET



- Keyed Notes**
1. REMOVE EXISTING RECEPTACLE AND ASSOCIATED CONDUIT AND WIRING.
  2. REMOVE EXISTING DEVICE AND INSTALL NEW GFI TYPE, DUPLEX RECEPTACLE. CONNECT TO EXISTING CIRCUITING. SEE NEW POWER PLAN.
  3. DISCONNECT EXISTING RANGE HOOD. REMOVE EXISTING CONDUIT AND WIRING.
  4. REMOVE EXISTING LIGHT FIXTURE.
  5. EXISTING RECEPTACLE TO REMAIN. MAINTAIN EXISTING CIRCUIT CONTINUITY.
  6. REMOVE EXISTING LIGHT SWITCH AND ASSOCIATED CONDUIT AND WIRING.
  7. EXISTING ELECTRICAL SERVICE EQUIPMENT TO REMAIN.
  8. REMOVE EXISTING 2" CONDUIT FROM POINT INDICATED TO EXISTING PANEL PER NOTE #9. PROTECT FEEDER CONDUCTORS FOR REUSE PER NEW WORK PLANS.
  9. REMOVE EXISTING PANELBOARD. INTERCEPT EXISTING BRANCH CIRCUIT CONDUCTOR/CONDUITS, INSTALL JUNCTION BOX AND MAKE NECESSARY SPLICES. SEE NEW POWER PLAN FOR WORK REQUIRED.
  10. REMOVE EXISTING JUNCTION BOX AND 1 1/2" CONDUIT/CONDUCTORS.
  11. REMOVE AND RELOCATE EXISTING RADIO EQUIPMENT PER NEW WORK PLANS. EXTEND EXISTING CABLING AS REQUIRED. COORDINATE WITH CITY OF ALBUQUERQUE RADIO COMMUNICATIONS DEPARTMENT.
  12. DISCONNECT EXISTING EXHAUST FAN. COORDINATE WITH MECHANICAL.
  13. REMOVE EXISTING SWITCHES AND REPLACE WITH NEW PER NEW WORK PLANS.
  14. EXISTING BELL TO REMAIN.
  15. REMOVE AND RELOCATE EXISTING LIGHT SWITCH. SEE NEW WORK PLANS.
  16. DISCONNECT POWER AND CONTROLS TO EXISTING EVAPORATIVE COOLER. REMOVE WIRING FULL LENGTH BACK TO PANEL AND ABANDON CONDUIT IN PLACE.

PANEL SCHEDULE				
PANEL DESCRIPTION	CCT. NO.	BKR SIZE	WIRE SIZE	LOAD NAMEPLATE
120/240 VOLT, SINGLE PHASE, THREE WIRE, 72 CIRCUIT, TWO-SECTION, SURFACE MOUNT, SIEMENS "S1" OR EQUAL	1-29	20A/1P	#12	EXISTING CIRCUITS
	30-40	20A/1P	#12	NEW LIGHTS, RECEPTACLES, EQUIPMENT, ETC.
	41-50	20A/1P	---	SPARE
	51-60	1P	---	SPACE PROVISIONS
	61-64	20A/2P	#12	EXISTING CIRCUITS
	65, 68	40A/2P	#8	EXISTING CIRCUITS

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CITY OF ALBUQUERQUE FIRE DEPARTMENT  
IMPROVEMENTS TO  
**FIRE STATION NO. 6**  
623 Griegos NW  
Albuquerque, New Mexico

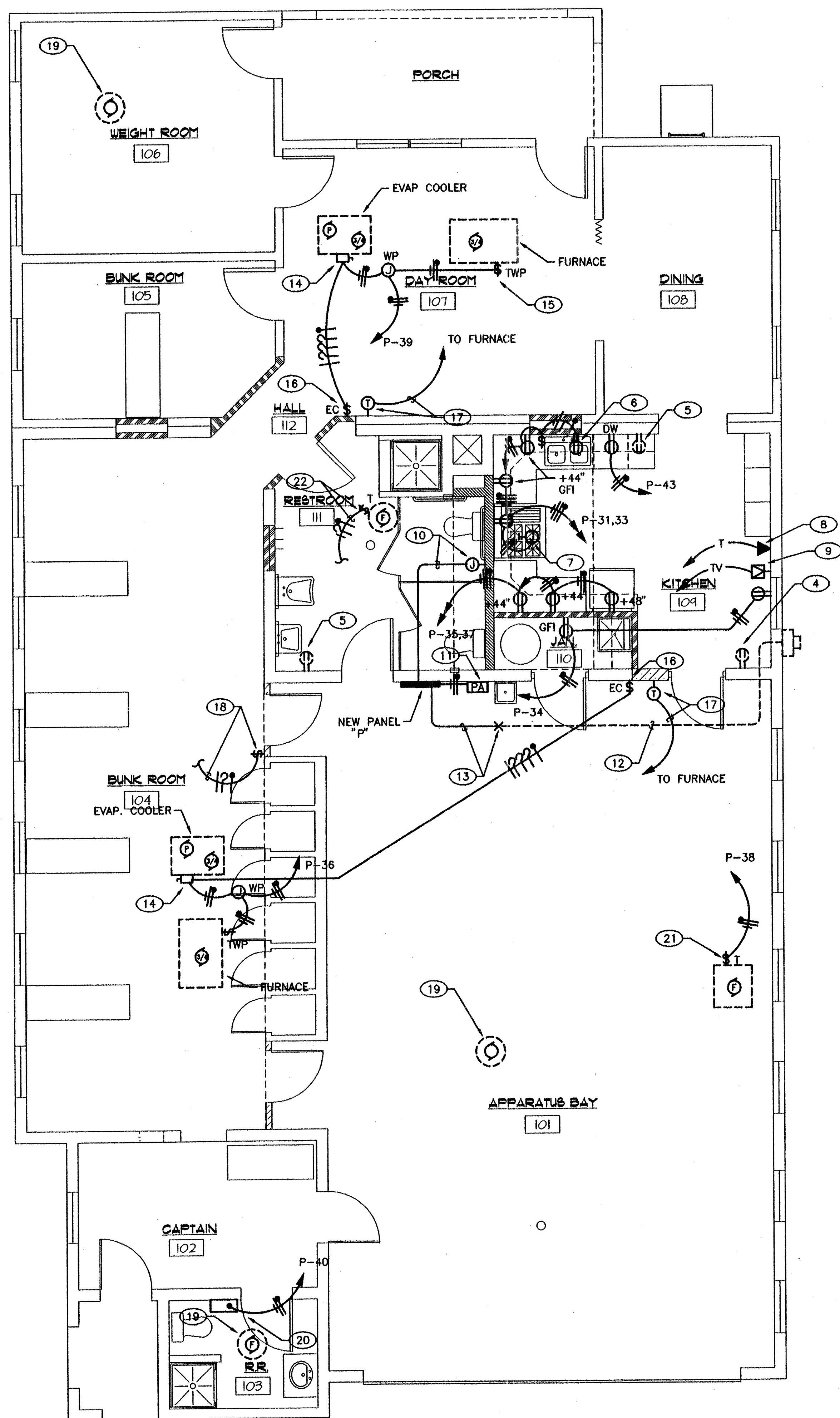
**ELECTRICAL DEMOLITION PLAN**

Description

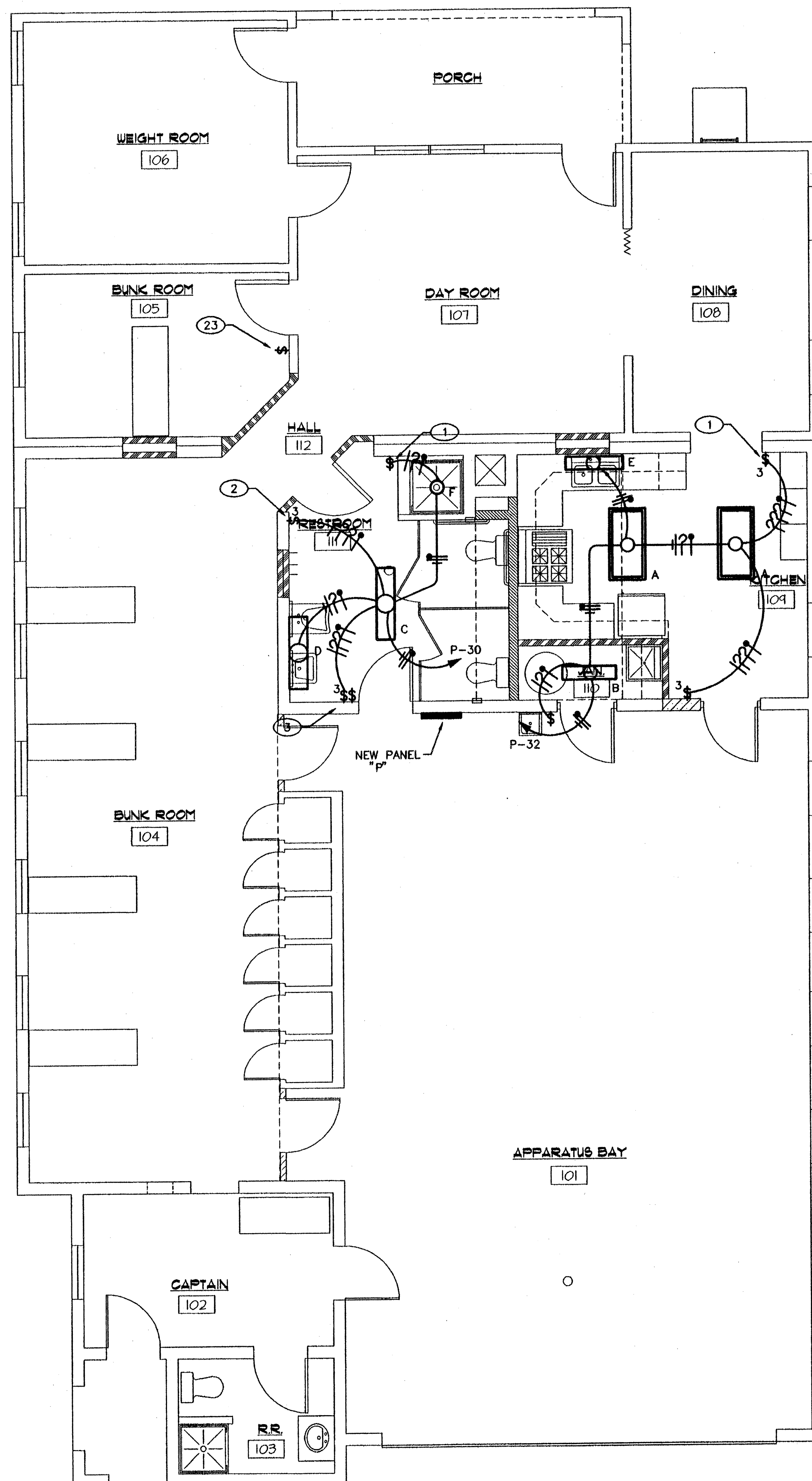
Date MAY. 30, 1997

Sheet 1






**POWER AND SPECIAL SYSTEMS PLAN**  
SCALE: 1/4"=1'-0"



**LIGHTING PLAN**  
SCALE: 1/4"=1'-0"

- Notes**
1. INSTALL NEW SWITCH FLUSH IN EXISTING PARTITION. ALL CONDUIT AND WIRING SHALL BE CONCEALED IF POSSIBLE. IF NOT, UTILIZE WIREMOLD SURFACE RACEWAY AND OUTLET BOXES.
  2. NEW LOCATION OF PREVIOUSLY RELOCATED SWITCH. INSTALL NEW 3-WAY SWITCH. REPLACE EXISTING CONDUCTORS WITH NEW #12 THHN CONDUCTORS THROUGH-OUT LIGHTING CIRCUIT. INSTALL NEW DEVICE PLATE.
  3. NEW LOCATION OF PREVIOUSLY RELOCATED SWITCH. INSTALL NEW 3-WAY AND SINGLE POLE SWITCH. REPLACE EXISTING CONDUCTORS WITH NEW #12 THHN CONDUCTORS THROUGH-OUT LIGHTING CIRCUIT. INSTALL NEW DEVICE PLATE.
  4. EXISTING DUPLEX RECEPTACLE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
  5. INSTALL A NEW GFI TYPE DUPLEX RECEPTACLE IN THIS EXISTING OUTLET. CONNECT TO EXISTING CIRCUIT.
  6. INSTALL DUPLEX RECEPTACLE CONTROLLED BY SWITCH FOR GARBAGE DISPOSAL.
  7. JUNCTION BOX FOR CONNECTION TO RANGE HOOD. COORDINATE WITH MECHANICAL.
  8. INSTALL TELEPHONE OUTLET AT +18" AFF. EXTEND 3/4" CONDUIT WITH 4 PAIR TELEPHONE CABLE TO TELEPHONE EQUIPMENT AND MAKE TERMINATIONS.
  9. INSTALL CABLE TELEVISION OUTLET AT +18" AFF. EXTEND 3/4" CONDUIT WITH RG-59U COAX CABLE TO CABLE TELEVISION ENTRANCE EQUIPMENT.
  10. INTERCEPT EXISTING BRANCH CIRCUIT CONDUITS AND CONDUCTORS. INSTALL NEW 12" X 12" X 6" FLUSH MOUNTED, SCREW COVER JUNCTION BOX. SPLICE NEW TO EXISTING CONDUCTORS AND EXTEND 2" CONDUIT WITH 55-#12 THHN, 4-#8 THHN TO NEW PANEL "P" AND CONNECT TO CIRCUIT BREAKERS FOR EXISTING CIRCUITS. SEE PANEL SCHEDULE ON SHEET E-2. JUNCTION BOX SHALL BE FLUSH MOUNTED IN THE WALL AND THE CONDUITS INSTALLED ABOVE THE CEILING.
  11. NEW LOCATION OF EXISTING RADIO EQUIPMENT. CONNECT TO NEW 20 AMP, 1 POLE CIRCUIT BREAKER IN PANEL "P". CONNECT RADIO SYSTEM CABLEING AS REQUIRED BY CITY OF ALBUQUERQUE RADIO COMMUNICATIONS DEPARTMENT.
  12. EXISTING 2" CONDUIT WITH 3-#3/0 CONDUCTORS + GROUND TO REMAIN.
  13. INTERCEPT EXISTING 2" CONDUIT AND EXTEND NEW 2" CONDUIT TO NEW PANEL "P". RE-INSTALL EXISTING 3-#3/0 CONDUCTORS + GROUND AND CONNECT TO MAIN LUGS IN NEW PANEL "P".
  14. EVAPORATIVE COOLER DISCONNECT SWITCH, MIDWEST #U220H. MAKE CONNECTION TO TWO SPEED FAN MOTOR AND PUMP. FUSE AT MECHANICAL UNIT. RECOMMENDATIONS WITH BUSSMANN FUSESTATS.
  15. SINGLE POLE THERMAL OVERLOAD SWITCH WITH WEATHERPROOF COVER. MAKE WEATHERPROOF FLEXIBLE CONNECTION TO FURNACE.
  16. EVAPORATIVE COOLER SWITCH, ROTARY TWO-SPEED FAN AND PUMP. VERIFY EXACT LOCATION WITH MECHANICAL PLANS.
  17. INSTALL THERMOSTAT FURNISHED BY MECHANICAL. PROVIDE 1/2" CONDUIT WITH CONTROL CONDUCTORS AS REQUIRED TO FURNACE AND MAKE CONNECTIONS. VERIFY EXACT LOCATION WITH MECHANICAL PLANS.
  18. NEW LOCATION OF PREVIOUSLY RELOCATED LIGHT SWITCH. RECONNECT TO LIGHTING CIRCUIT.
  19. EXISTING EXHAUST FAN TO BE RE-USED. COORDINATE WITH MECHANICAL.
  20. PROVIDE 120 VOLT CONNECTION TO WALL HEATER. COORDINATE WITH MECHANICAL.
  21. PROVIDE 120 VOLT CONNECTION TO UNIT HEATER AND ASSOCIATED THERMOSTAT. COORDINATE WITH MECHANICAL.
  22. PROVIDE CONNECTION TO CEILING EXHAUST FAN. SWITCH WITH LIGHT FIXTURES IN THIS ROOM.
  23. INSTALL NEW SWITCH FLUSH IN EXISTING PARTITION AND CONNECT TO EXISTING LIGHT FIXTURE. ALL CONDUIT AND WIRING SHALL BE CONCEALED IF POSSIBLE. IF NOT, UTILIZE WIREMOLD SURFACE RACEWAY AND OUTLET BOXES.

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CITY OF ALBUQUERQUE FIRE DEPARTMENT

IMPROVEMENTS TO

FIRE STATION NO. 6

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Albuquerque, New Mexico

Description

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LIGHTING, POWER, AND  
SPECIAL SYSTEMS PLANS

Date MAY. 30, 1998

Sheet

E2