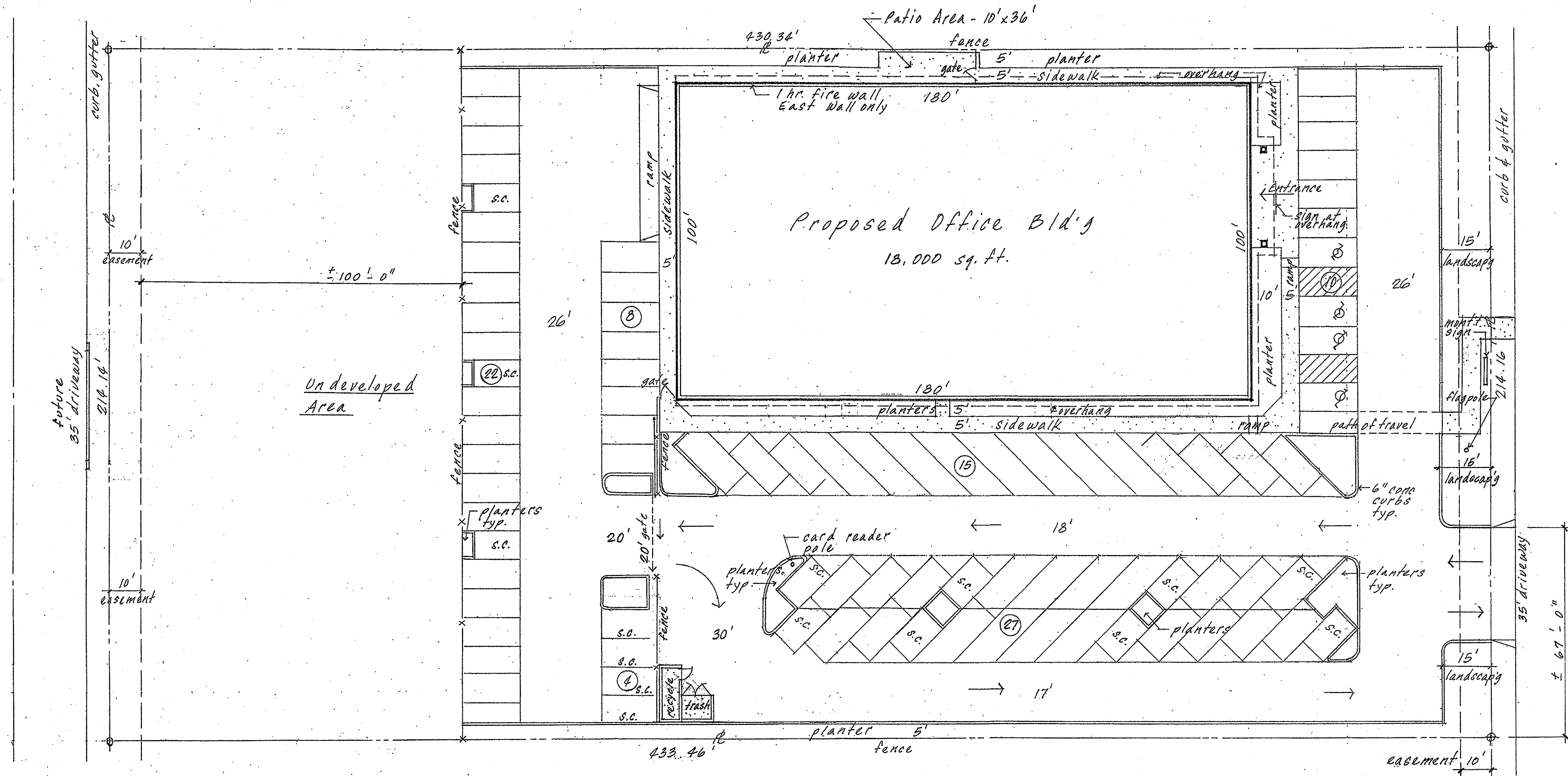


Imperial Ave.



INDEX TO DRAWINGS

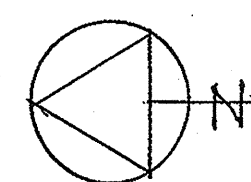
Sheet No. Description

Sheets by
Porter &
Assoc.

- Site Engineering
- Architectural Site Plan
- Floor Plan, Symbols, Window & Door Schedule
- Exterior Elevations & Details
- Architectural Sections & Details
- Restroom Floor Plans, Interior Elevations & Details
- Reflected Ceiling Plan & Details
- Roof Plan, Notes & Details
- Handicapped Notes & Details
- Waste Piping
- Water Piping
- Enlarged Plumbing Plan
- Roof Plan, Gas Piping & Roof Drainage
- Schedules, Legends & Notes

- HVAC Air Distribution Plan
- HVAC Roof Plan
- Schedules, Details & Notes
- Title 24 Documents
- Title 24 Documents
- Site Lighting Plan & Details
- Lighting Plan, Schedules & Details
- Power Plan & Notes
- Electrical Roof Plan & Notes
- One Line Diagram & Panels
- Site Lighting Point By Point & Title 24 Compliance
- Title 24 Compliance

Landscaping Sheets As Required



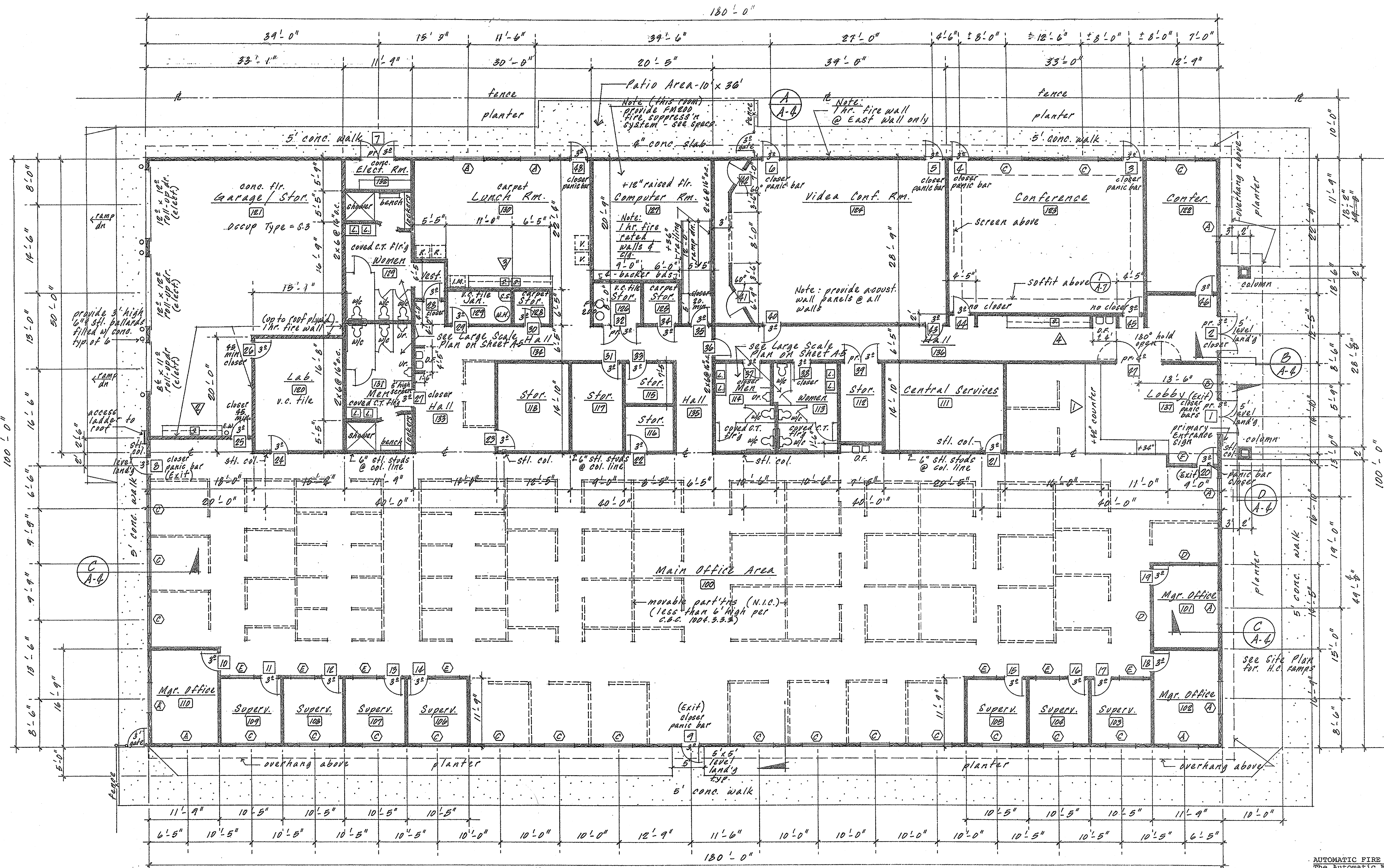
Site Plan

1" = 20'

80 Parking Spaces
Parcel 22, 2.49 Acres

SJVAPCD Office Building
Bakersfield, Ca.

Robert Hart, Architect Architecture and Planning Creative Residences 3505 Columbia Dr. Modesto, CA 95364 (209) 374-3350	rh	5-28-08 4-7-08 11-28-07 Sheet No. A-1 of Sheets
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WINDOW SCHEDULE

Exterior

- (A) - 6'-0" W. x 4'-0" H. nail-on aluminum and double glazed double strength glass mill finish.
- (B) - 3'-0" W. x 4'-0" H. nail-on aluminum and 1/4" tempered plate glass, mill f
- (C) - 5'-0" W. x 4'-0" nail-on aluminum fra and double glazed double strength gla mill finish.

Interior

- (D) - 5'-0" W. x 3'-0" H. nail-on aluminum and double strength glass, mill finis
- (E) - 4'-0" W. x 3'-0" H. nail-on aluminum f and 1/4" tempered plate glass, mill f
- (F) - 3'-0" W. x 3'-0" H. nail-on aluminum and 1/4" tempered plate glass.

DOOR SCHEDULE

- 1 & 2 - pr. 3'-0" x 7'-0" aluminum and glass w/1/4" tempered glass. See Specs.
- 3 & 4 - 3'-0" x 6'-8" steel door and frame.
- 7 - pr. 3'-0" x 6'-8" steel doors and fra
- 8 - 3'-0" x 6'-8" steel door and frame.
- 10 & 11 - 3'-0" x 7'-0" aluminum and glass door w, tempered glass. See Specs.
- 12 - 3'-0" x 6'-8" solid core wood door and frame.
- 25 & 26 - 3'-0" x 6'-8" steel door and frame - 45 fire rated.
- 27 thru 31 - 3'-0" x 6'-8" solid core wood door and frame.
- 32 - 3'-0" x 6'-8" solid core wood door an frame. 20 min. fire rated.
- 32 & 33 - pr. 3'-0" x 6'-8" solid core wood doors steel frame. 27 - pr. 4'-0" x 6'-8"
- 33 thru 35 - 3'-0" x 6'-8" solid core wood door and frame.
- 36 thru 40 - 3'-0" x 6'-8" solid core wood door and frame.

NOTE: Provide 6" x 24" view window in the door at Door Nos. 44, 45 and 46. (wire glass @door #35)

HARDWARE

Provide locksets on all doors except push and pull hardware at Door Nos. 27, 28, 37 and 38. Door No. 35 shall have a special push button type lockset. Verify with tenant. Provide closer at all fire rated doors & exit da

AUTOMATIC FIRE SPRINKLER SYSTEM
The Automatic Fire Sprinkler System Contractor shall provide an approved automatic fire sprinkler system at all areas of the Market and Future Tenant Building. These systems shall be installed as per Chapter 9 1997 UBC and NFPA-13. The sprinkler contractor shall provide shop drawings to be approved by the local Fire Dept. and Building Dept. All valves controlling sprinkler system water supply and flow shall be electrically monitored and the signal shall be automatically transmitted to a UL listed station when the number of heads exceeds 100, MFC 1003.3.1.

SJVAPCD OFFICE BUILDING

BAKERSFIELD, CA.

rh	SHEET NO.
Robert Hart, Architect	A-2
Architecture and Planning Creative Residences	OF SHEETS
3505 Columbia Dr. Modesto, CA 95356 (209) 576-9200	

2-7-08
11-28-07

Building Code Analysis:

1. Occupancy Type
Office Area - 16,674 sq. ft. = B
Garage - 1,326 sq. ft. = S-3
2. One Story
3. Construction Type = 5N with an automatic fire sprinkler system
4. Allowable Floor Area = 8,000 sq. ft. x 3 (fire sprinklers) = 24,000 sq. ft. This building is only 18,000 sq. ft.
5. Occupant Load
Office Area = 9,000 sq. ft. ÷ 100 = 90 people
Kitchen/Lunch Rm. = 600 sq. ft. ÷ 15 = 40 people
(omit Restrooms, Halls, Storage Rms. and Garage)
Separate Use Area
Conference = 858 sq. ft. ÷ 15 = 57 people (all exit to the exterior)
Video Conference Rm. = 1,008 sq. ft. ÷ 15 = 67 people (all exit to the exterior)
Conference = 276 sq. ft. ÷ 15 = 18 people

SYMBOLS

- 2 x 6 @16" o.c. - wood stud walls
- w/stucco finish @exterior and 5/8" gyp. bd. finish @ Interior w/R-19 insulation. Type "X" @ 1 Hr. Wall.
- 3-5/8" x 25 ga. stl. studs @16" o.c. w/5/8" gyp. bd. finish each side w/sound batts (textured and painted finish).
- stl. door frame w/solid core door (6'-8" high), painted w/lever lockset hardware (handicapped) (hollow core steel doors @ exterior)
- water closet (handicapped) - See Plumbing Plan
- 12" x 14" lavatory or s.s. sink See Plumbing Plan
- Urinal - See Plumbing Plan
- Drinking fountain - See Plumbing Plan
- Room number
- Door number - See Sheet A-5
- Window number - See Sheet A-5
- New Item
- Interior Elevations (cabinets) - See A-5.

FLOOR PLAN
18,000 sq. ft.
1/8" = 1'-0"

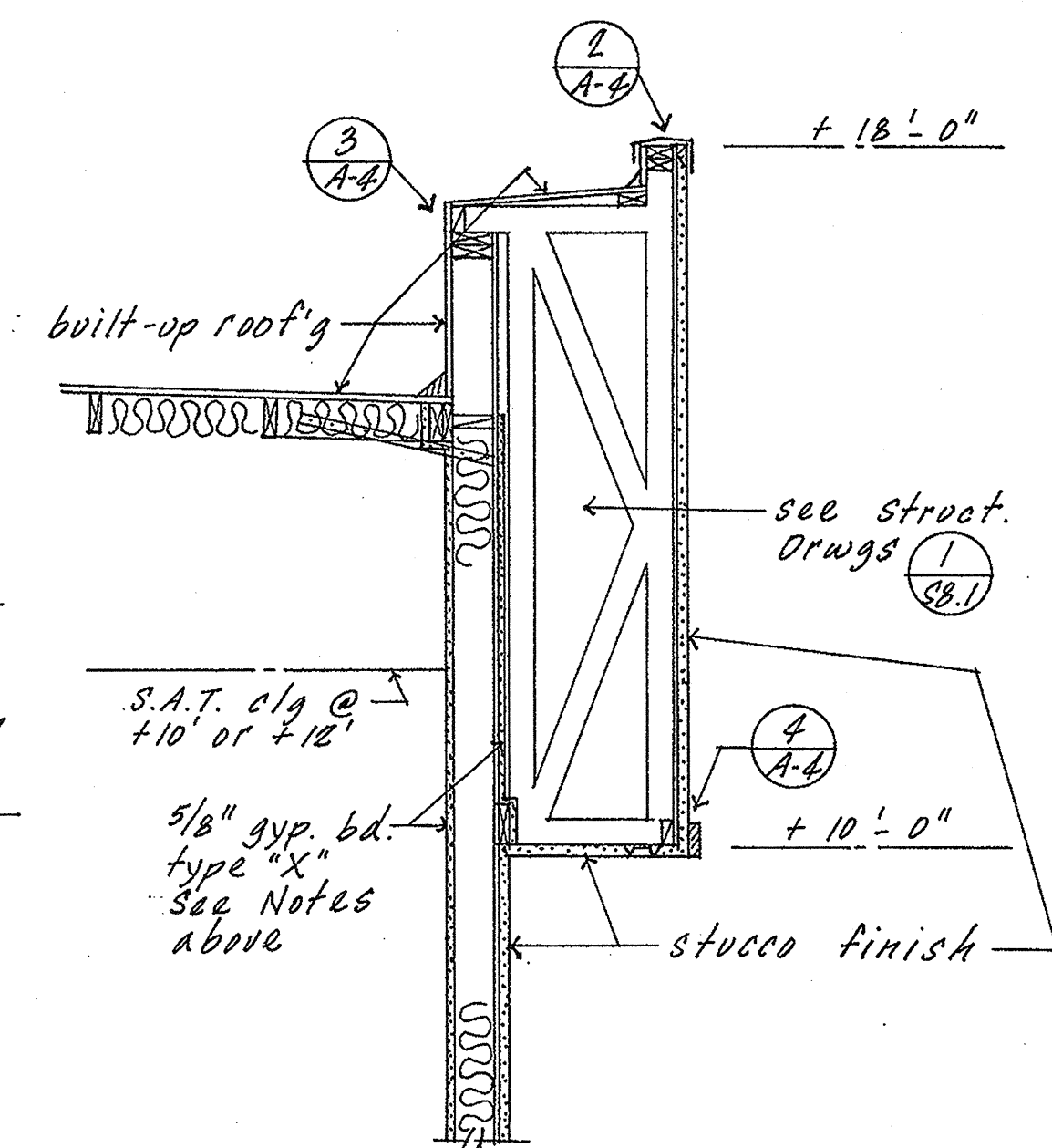
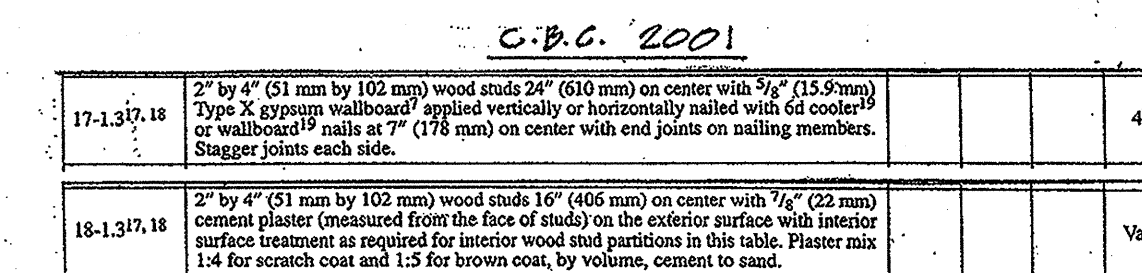
See Sheet A-5 for Door & Window Details and Interior Elevations.

Room #127 Only - Provide a FM200 Fire Suppression System (no Fire Sprinklers) "See Specs." Provide fire rated walls and 5/8" gypsum board ceiling at the bottom of roof joists w/sealed penetrations.

NOTE: Provide Primary Entrance Signage and Tactile Exit Signs per C.B.C.1003.2.8.6.1.

See Sheet H-1 for all Handicapped Notes & Details.

- 1 hr. fire rated wall (occup. separation) 2 x 6 @16" o.c. w/3 stud wall with 5/8" gyp. bd. (type "X") finish each side - up to roof ply'd.



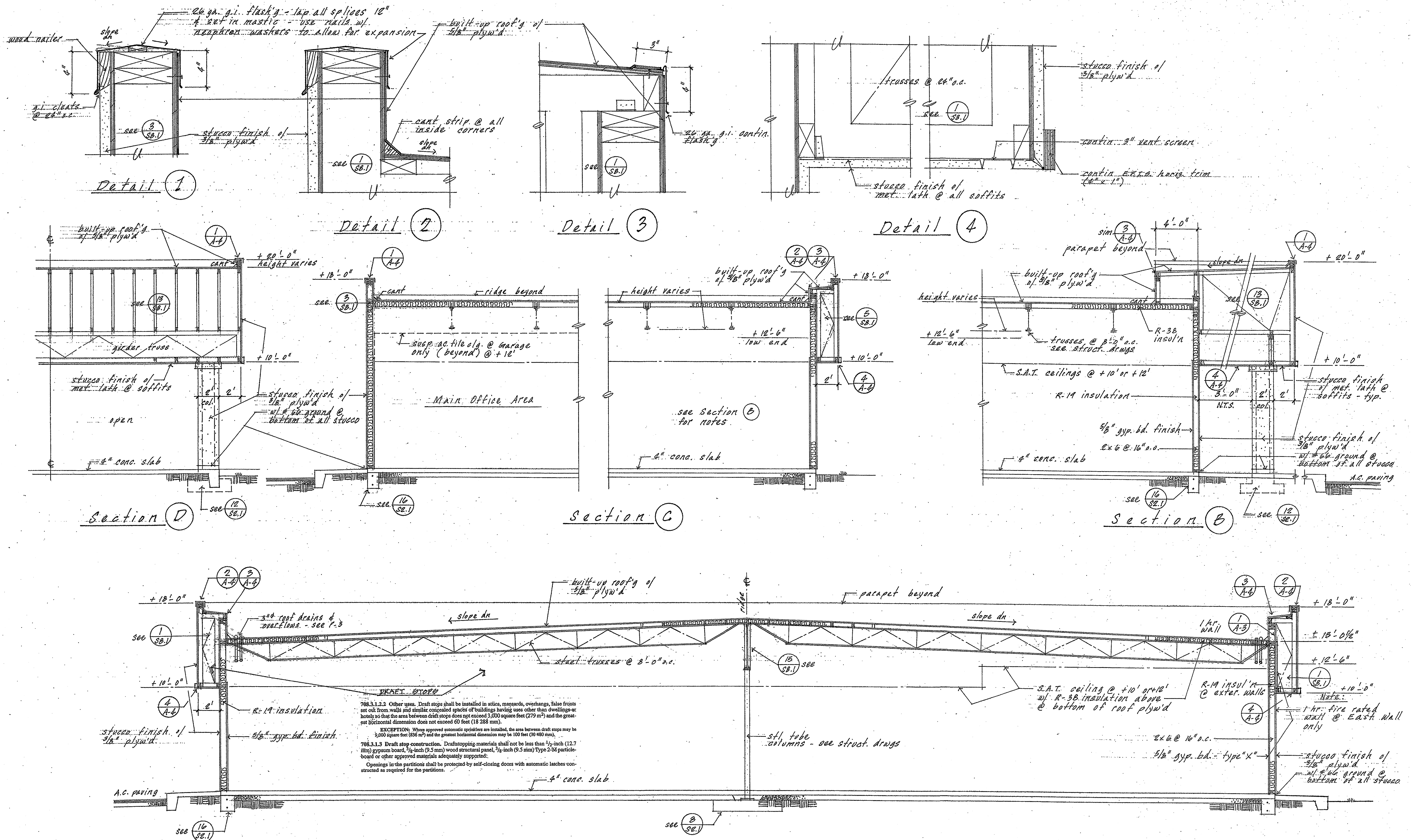
Section (1) $\frac{1}{2}'' = 1'-6$
1 hr. Fire Wall



BAKERSFIELD, CA.

Robert Hart, Architect Architecture and Planning Creative Residences		SHEET NO. A-3
3505 Columbus Dr. Menlo Park, CA 94026 (415) 321-9523		OF SHEETS

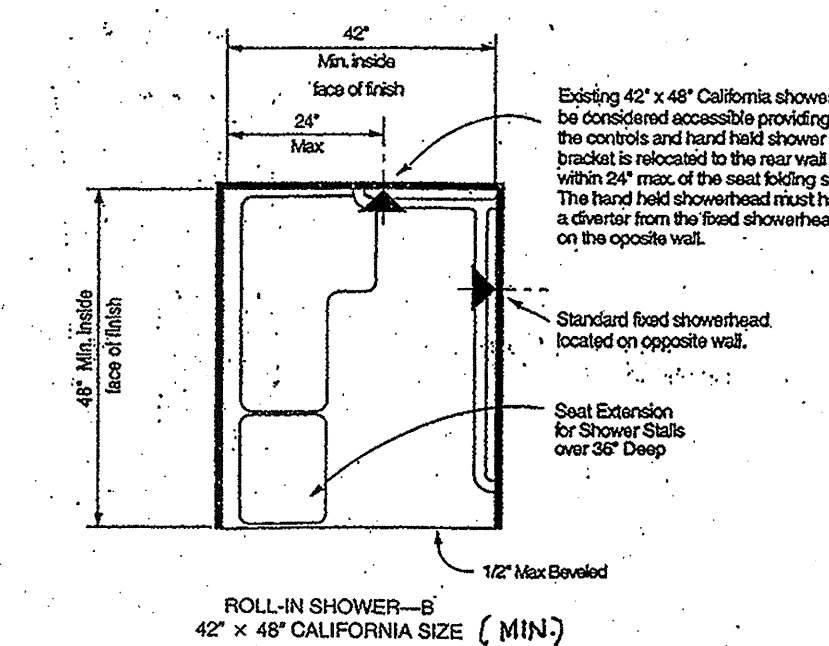
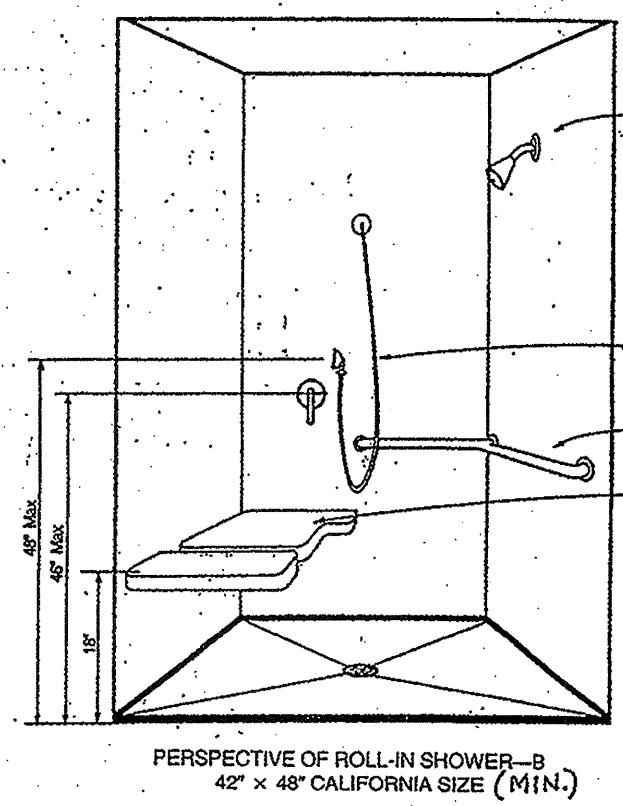
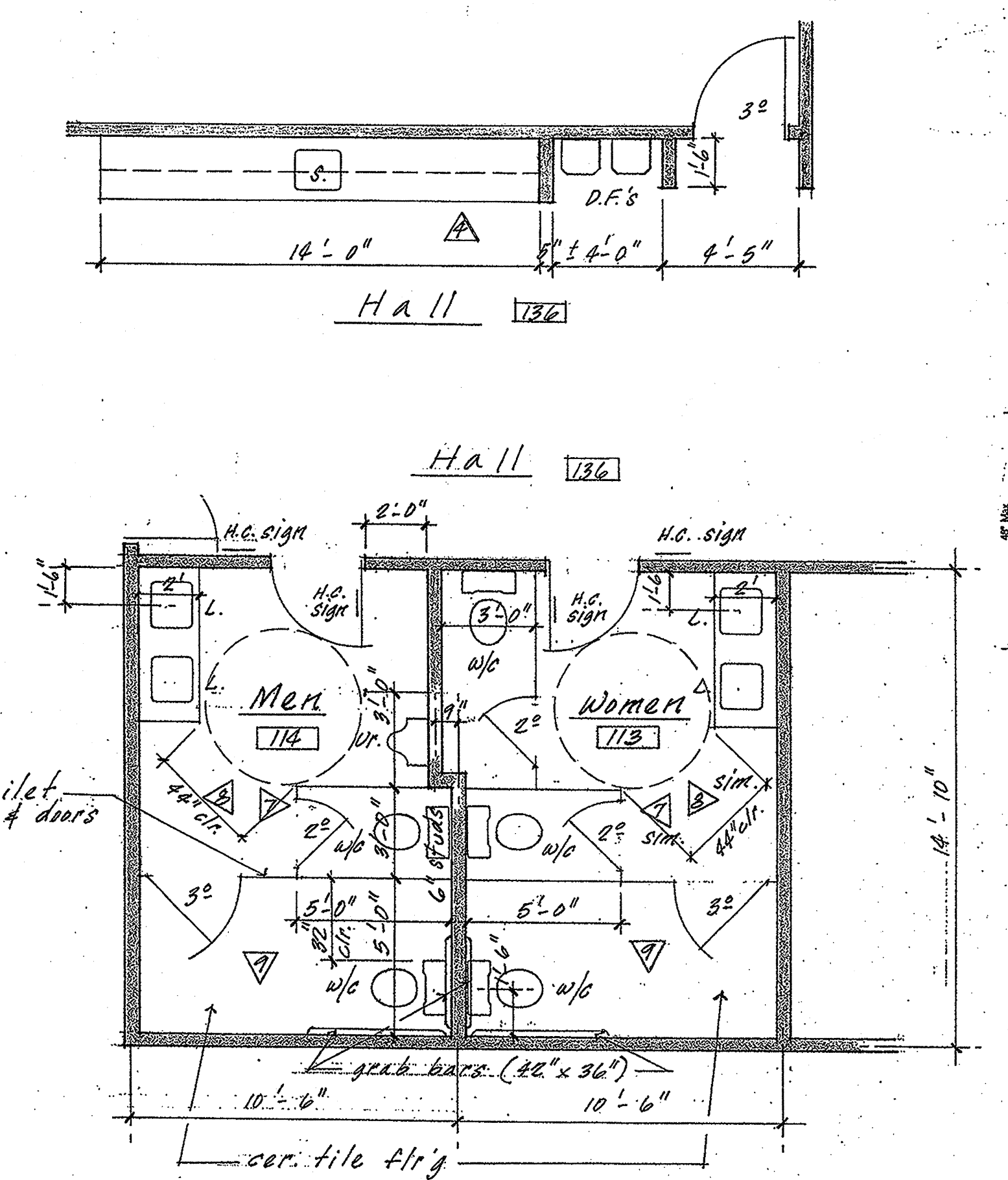
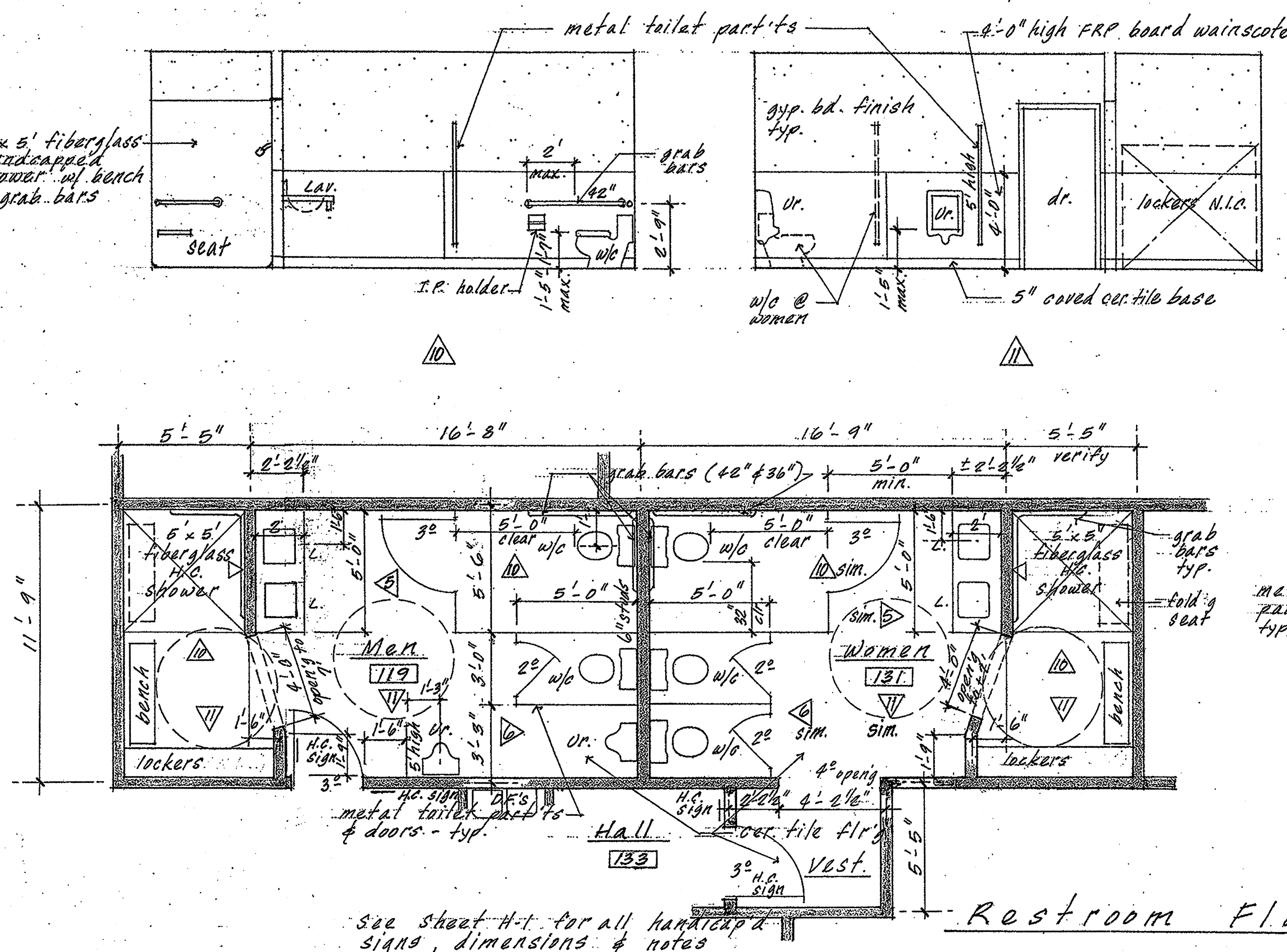
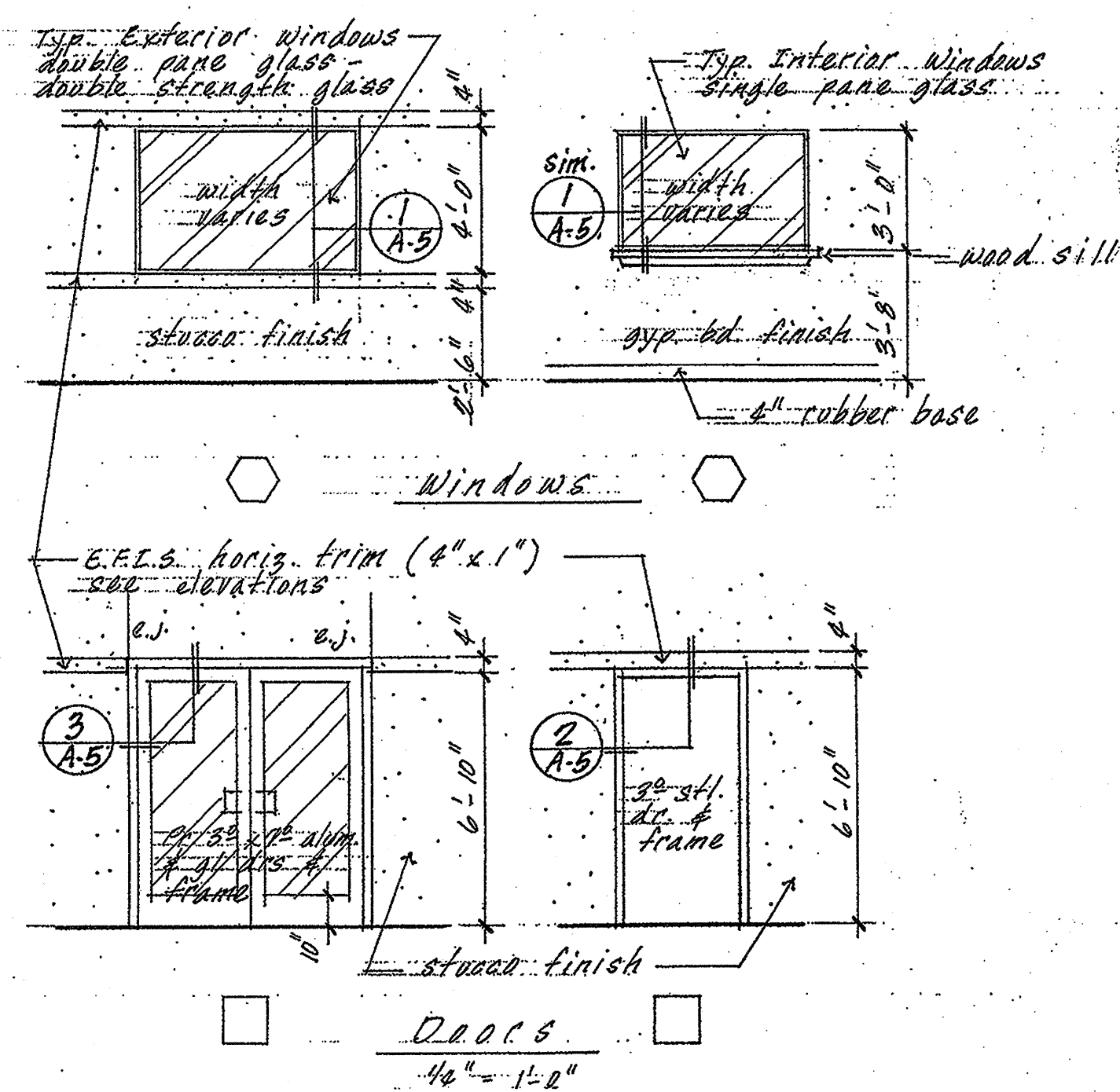
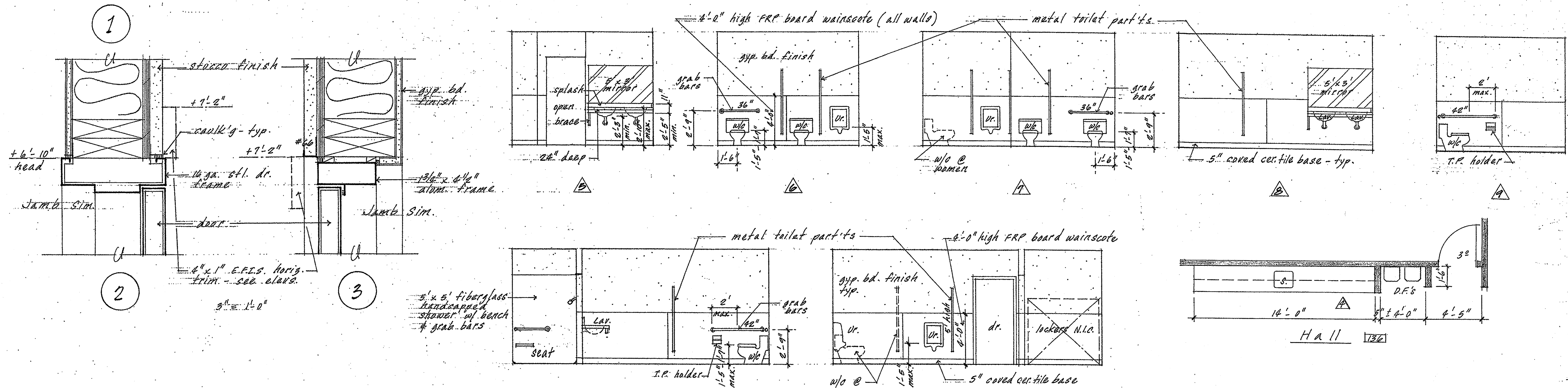
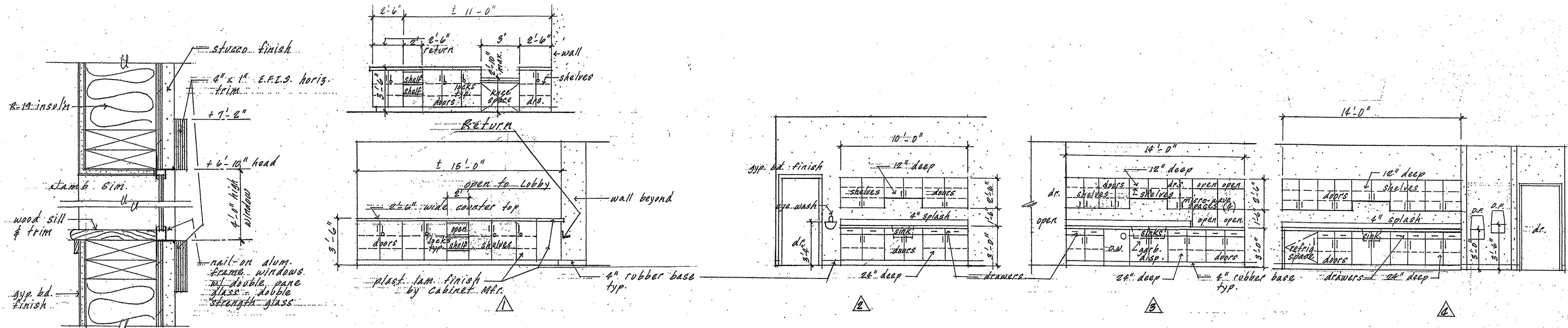
2-7-08
11-28-07



Section A
Scale 1/4" = 1'-0"

SJVAPCD OFFICE BUILDING
BAKERSFIELD, CA.

2-7-08
11-2B-07



see sheet H-1 for all handicap signs, dimensions & notes

Restroom Floor Plans

MIN. HANDICAP'D SHOWER SJVAPCD OFFICE BUILDING

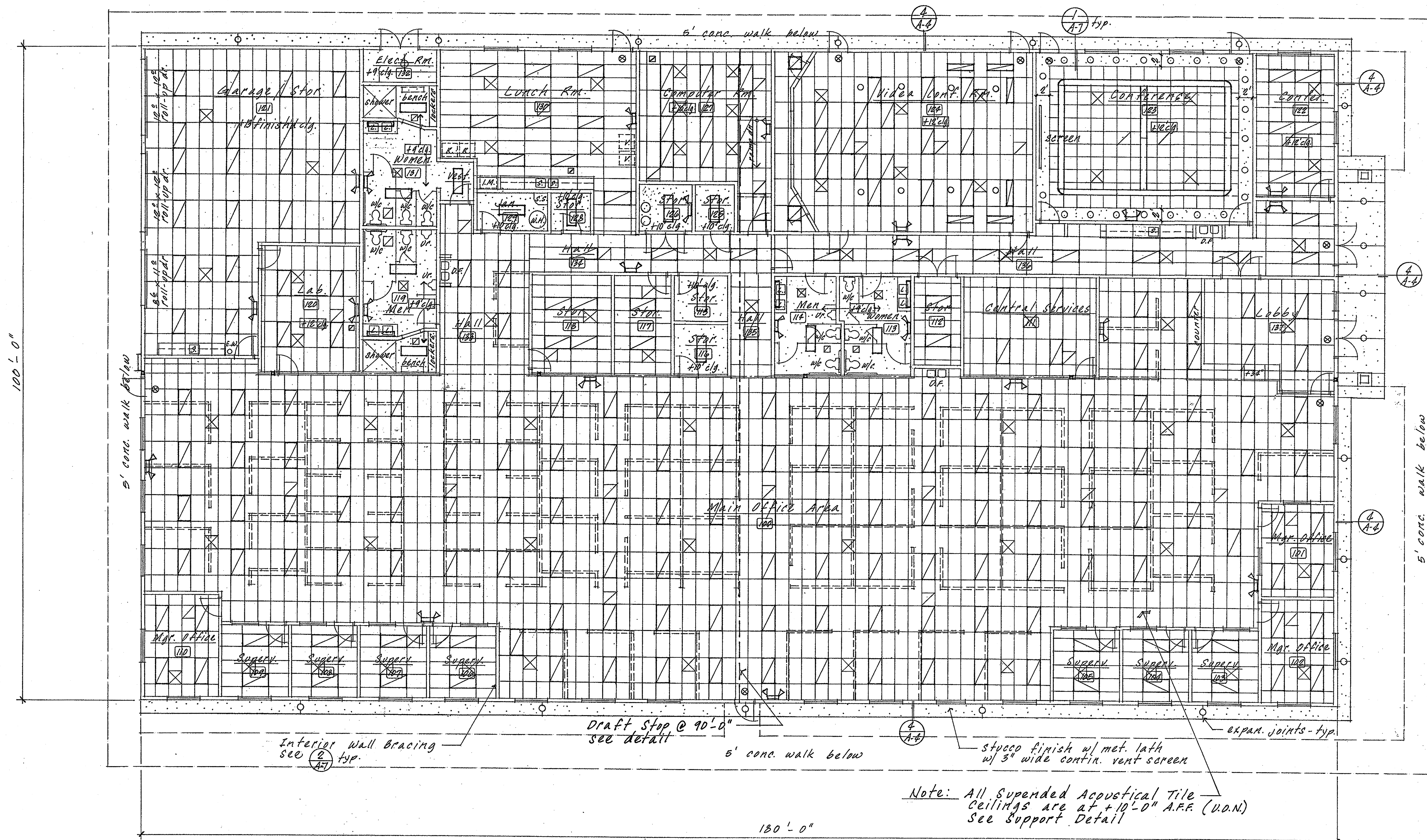
BAKERSFIELD, CA.

rh

Robert Hart, Architect
Architecture and Planning
Creative Residences
3808 Columbia Dr.
Modesto, CA 95358
(209) 576-0303

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of Sheets

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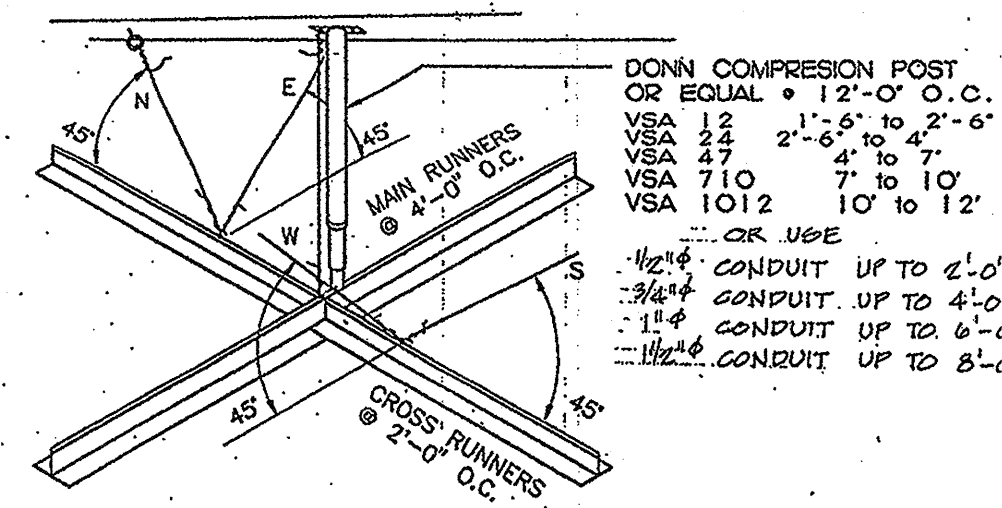


"The Reflected Ceiling"

FLOOR PLAN

 18,000 sq. ft. 1/8" = 1'-0"

- SYMBOLS**
- 2' x 4' lay-in suspended grid acoustical tile ceiling system @10'-0" unless otherwise noted
 - 2' x 2' regular acoustical tile ceiling system @12'-0" unless otherwise noted
 - 5/8" gyp. board taped, textured and painted @16" o.c. @9'-0" unless otherwise noted
 - 1' x 4' surface mounted fluorescent light fixture see light schedule
 - recessed incandescent light fixtures
 - incandescent light fixtures - see light schedule
 - 2' x 4' recessed fluorescent light fixture - see light schedule
 - mechanical supply air grille - see Mech. Plan
 - mechanical return air grille - see Mech. Plan
 - mechanical exhaust fans - see Mech. Plan

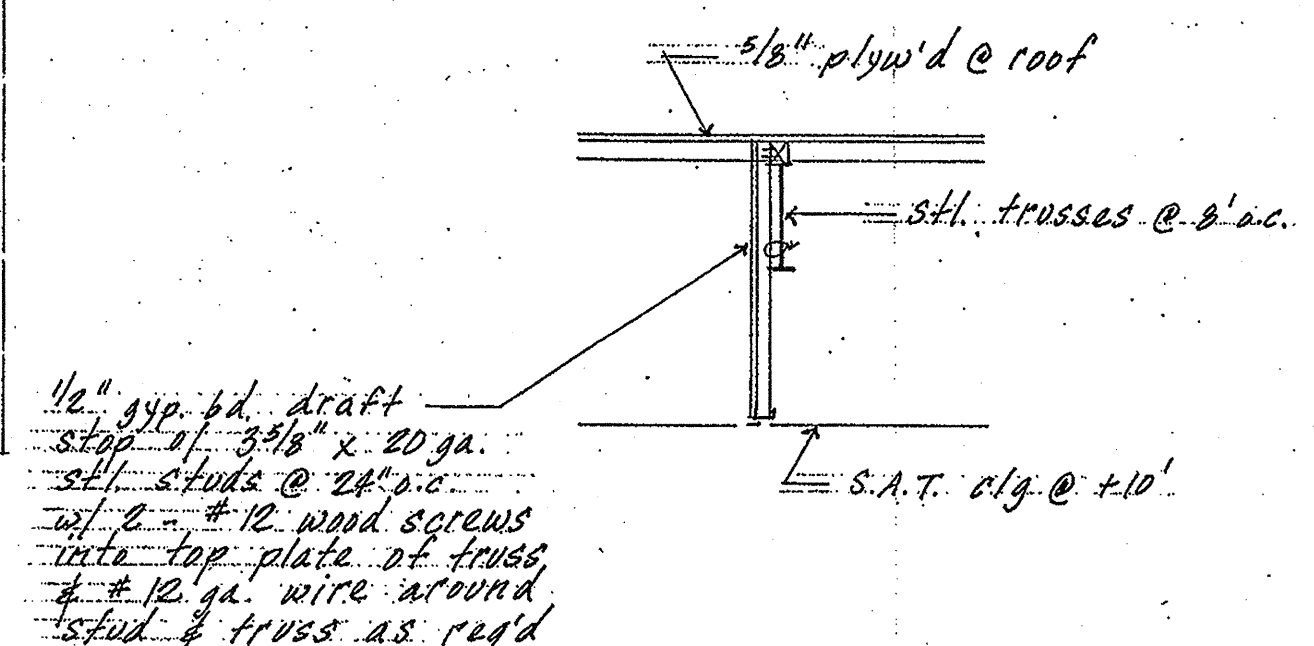


LIGHTING FIXTURES & CEILING MOUNTED AIR REGISTERS OR RETURNS ARE TO BE SUPPORTED INDEPENDENT OF T-BAR GRID. SUPPORT WITH 12 GA. WIRE 48" O.C. WITHIN 8" OF EACH WALL. HANGER WIRES: WIRE HANGERS WITHIN 5" OF PLUMB UNLESS COUNTER SLOPING WIRES ARE PROVIDED AS SHOWN PER STANDARD 52-2 OF THE UBC, VOL. 3.

VERTICAL SUPPORT IS TO BE PROVIDED BY 12 GA. WIRE 48" O.C. WITHIN 8" OF EACH WALL. HANGER WIRES: WIRE HANGERS WITHIN 5" OF PLUMB UNLESS COUNTER SLOPING WIRES ARE PROVIDED AS SHOWN PER STANDARD 52-2 OF THE UBC, VOL. 3.

SEISMIC BRACING TO BE 12 GA. WIRE, 4 WIRES SECURED WITHIN 2" OF THE CROSS RUNNER INTERSECTION & SPREAD 90° FROM EACH OTHER. NOT MORE THAN 45° FROM THE CEILING PLANE. MIN. OF 48" FROM WALLS. PROVIDE SEISMIC STRUT @ 12'-0" O.C.

SUPPORT DETAIL PER UBC 2504 & 710.2 (1997)



Draft Stop

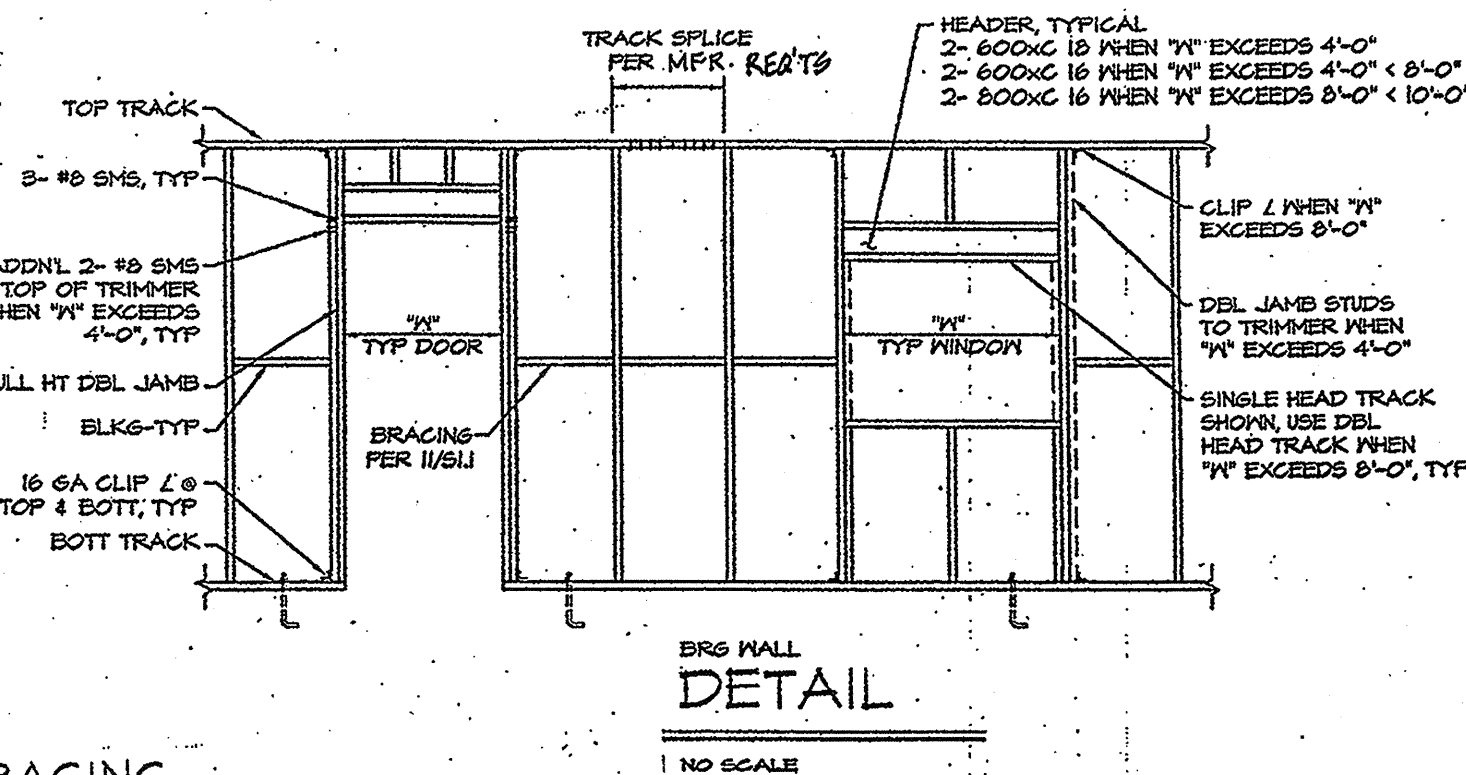
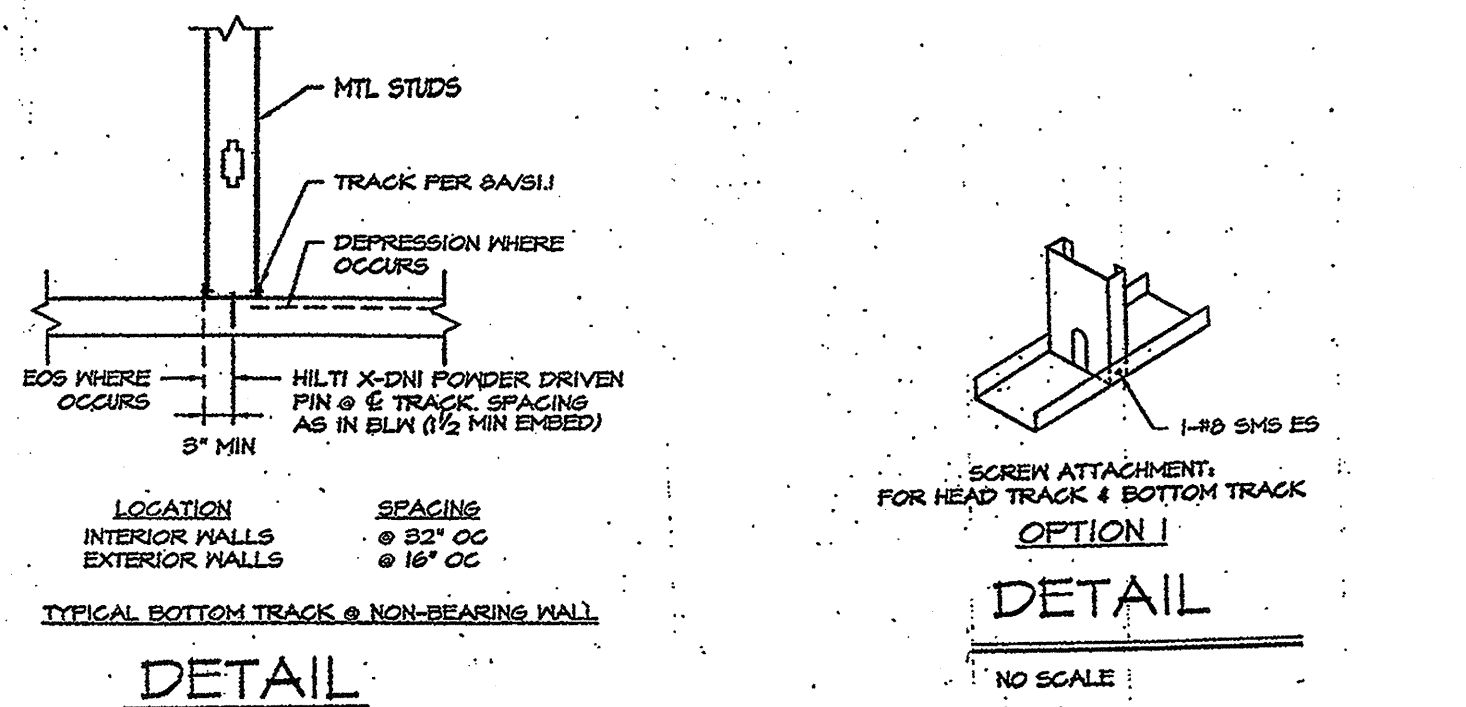
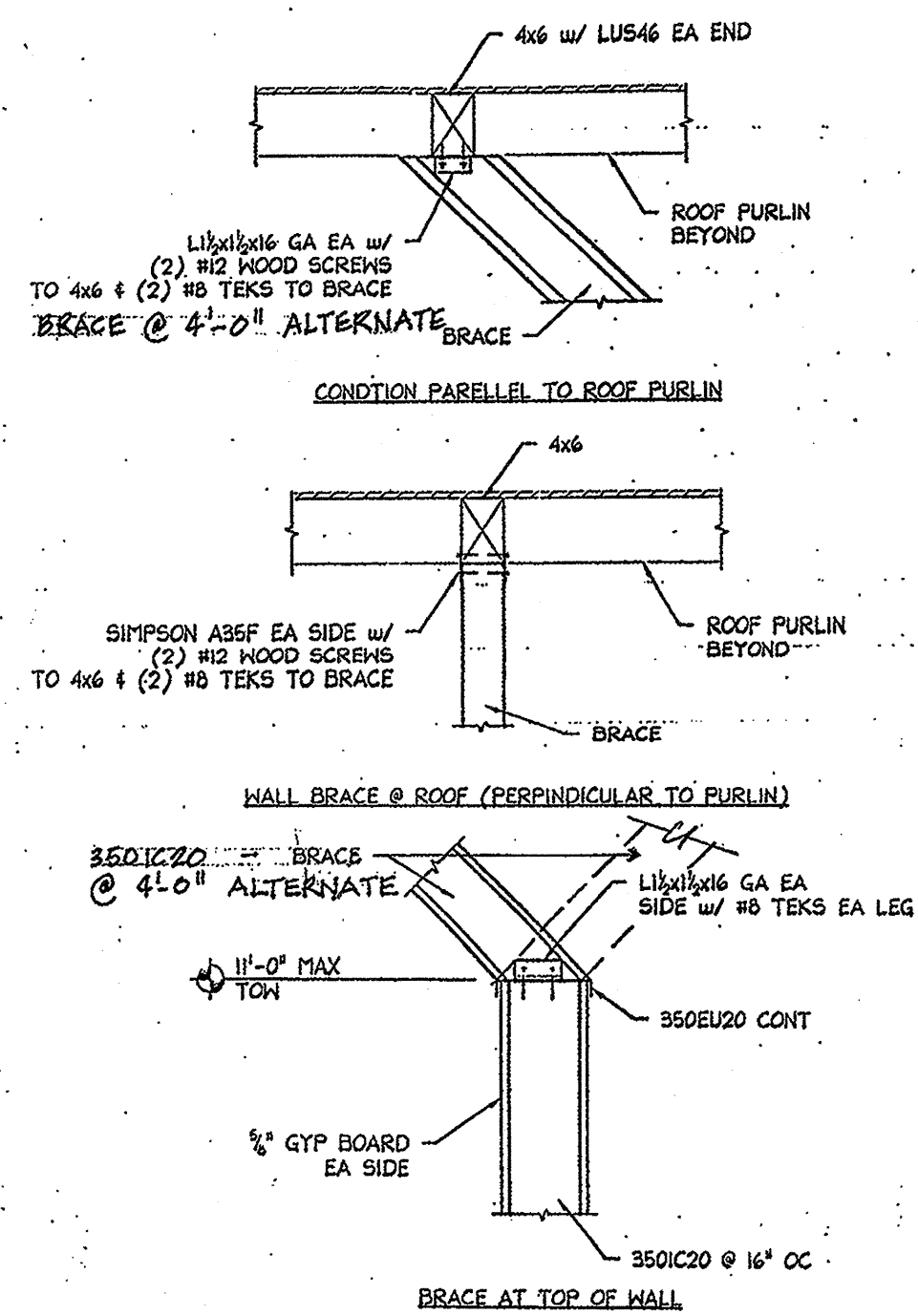
 N.T.S.

SJVAPCD OFFICE BUILDING

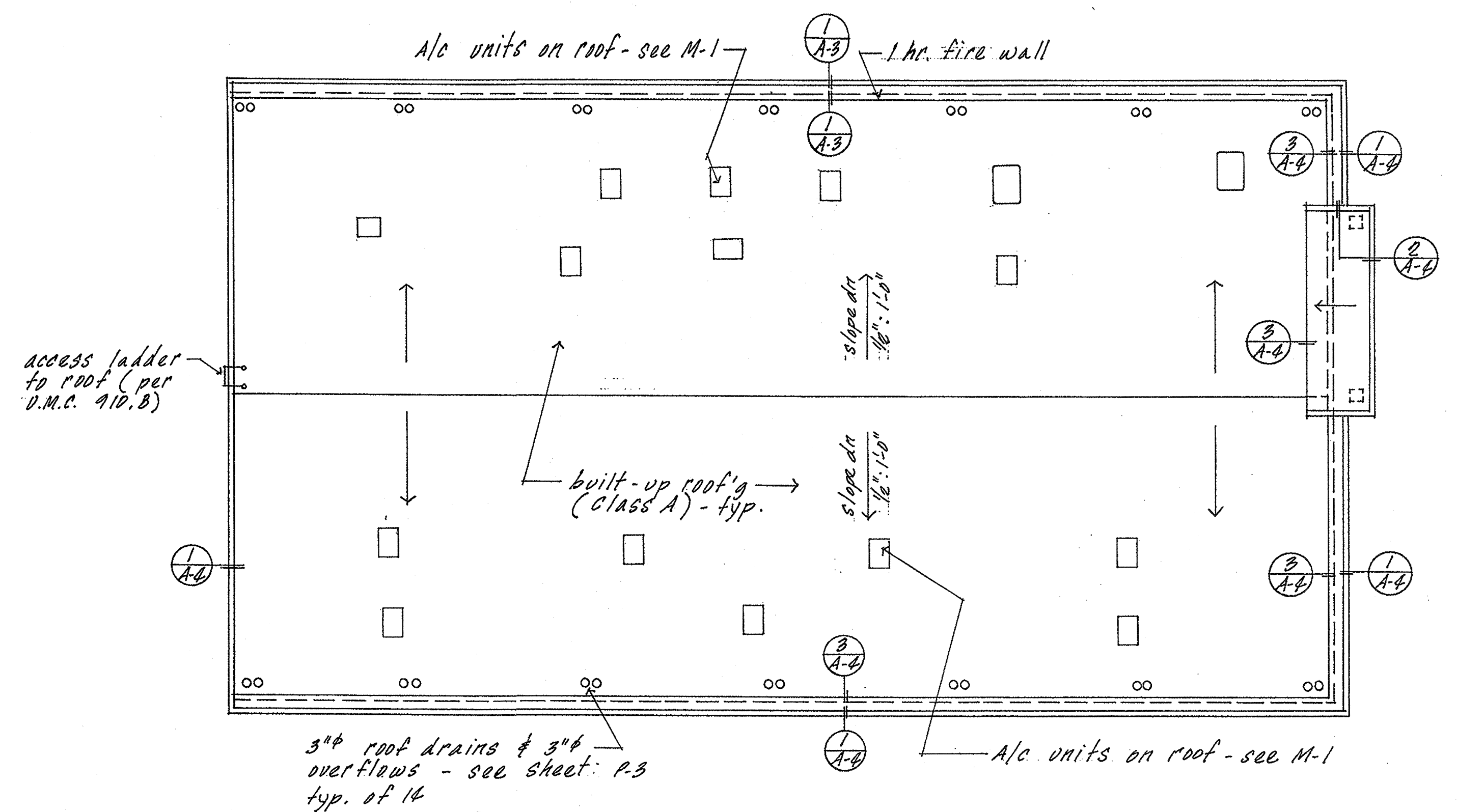
 BAKERSFIELD, CA.

Robert Hart, Architect Architecture and Planning Creative Residences 3505 Columbia Dr. Mojave, CA 93502 (209) 578-9393		SHEET NO. A-6
		OF SHEETS

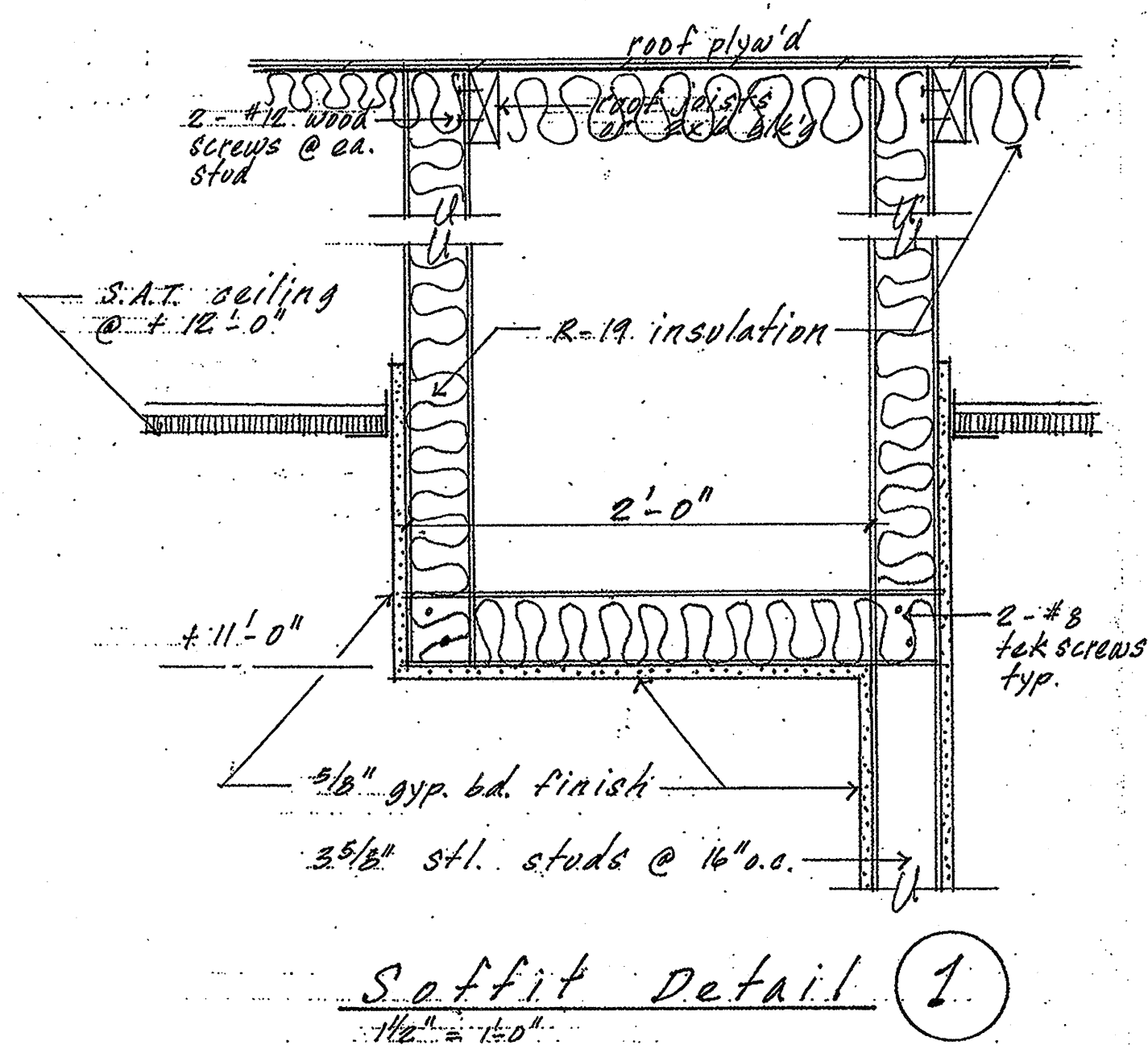
2-7-08
 11-28-07



2 WALL BRACING



Roof Plan 1/16" = 1'-0"



GENERAL NOTES

MAIN EXIT DOORS shall have a sign indicating.. UNLOCKED DURING BUSINESS HOURS. UBC 1004.3

EXIT DOORS shall have latching hardware that is "openable from the inside without the use of a key or special knowledge or effort". UBC 1004.3

Provide approved premises ADDRESS visible from street with contrasting numbers with minimum 6" high characters and 3/4" stroke. UFC 901.4.4

All exterior signage requires a separate permit.

A minimum of 5% of all desks/counter lengths shall be handicapped accessible. Counter height 28" - 34" AFF with employee knee space 30" wide x 27" high x 19" deep. Start at reception desk.

Outlets for power, phone, or data shall be installed a minimum 15" AFF.

Switches and all other controls shall be installed 36"-48" AFF.

Code 22. limits the number of duplex convenience outlets per circuit:

- Maximum 4 per 15 amp circuit.
- Maximum 6 per 20 amp circuit.

A minimum of (2)-2A:10B:C fire extinguishers shall be provided. Travel distance to reach one shall not exceed 75 feet and mounting height shall not exceed 60". UFC Sec. 1002

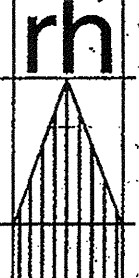
Provide attic draft stops in all attic and overhang areas and other concealed spaces which does not exceed 9,000 sq. ft. and greatest horizontal dimension does not exceed 100'.

This project will conform to the 2001 edition of the Calif. Building Code, Calif. Mechanical Code, Calif. Plumbing Code, the 2001 edition of the California Fire Code and the 1999 edition of the National Electric Code & 2001 C.E.C.

Occupant load capacity is to be posted in a conspicuous place in per U.B.C. 1007.2.6.

SJVAPCD OFFICE BUILDING

BAKERSFIELD, CA.

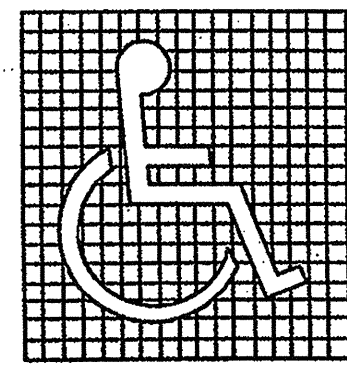
Robert Hart, Architect Architecture and Planning Creative Residences 3505 Columbia Dr. Modesto, CA 95356 (209) 578-3333		SHEET NO.
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		OF SHEETS

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11-28-07

ACCESSIBILITY STANDARDS

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

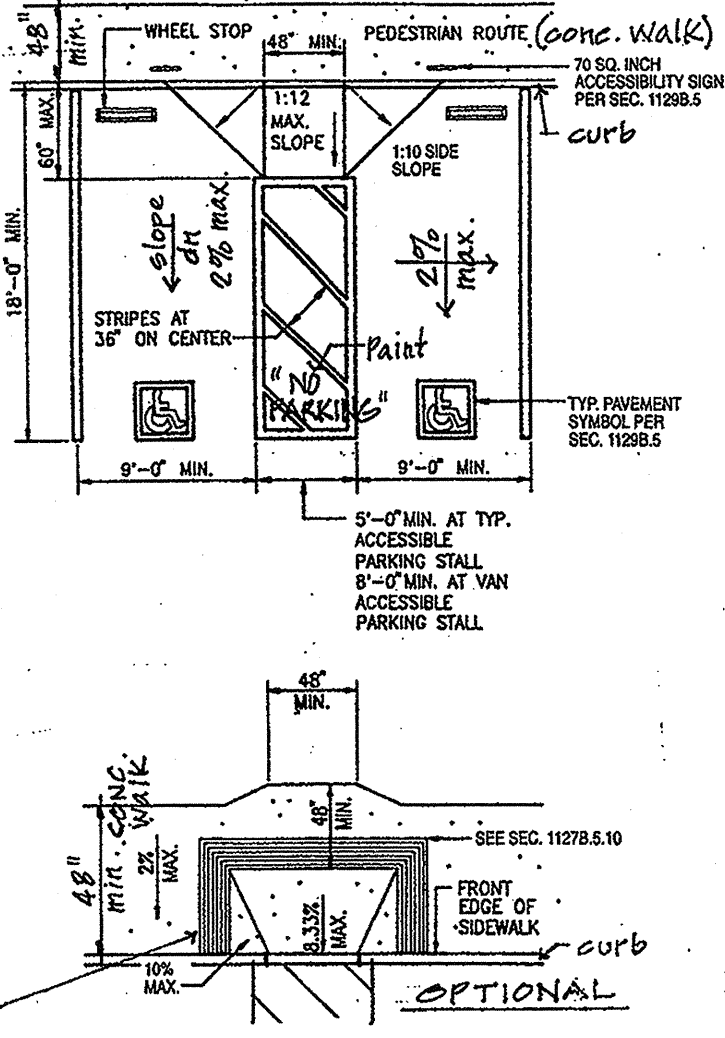
1. Symbol shall be white figure on blue background.
2. A surface identification at all handicapped parking stalls shall be 3' x 3' and shall be located so that it is visible to a traffic enforcement officer when a vehicle is properly parked.



PARKING NOTES

1. Handicapped space shall be as near as possible to the primary entrance of building.
2. Free standing signs located at interior end of a parking space shall be mounted a minimum 80" high if in path of travel.
3. Bumpers are required when no curb barrier is provided which will prevent encroachment of cars over walkways.
4. Wheelchair users must not be forced to go behind parked cars other than their own.
5. Each parking space is required to be at least 18' long.
6. Surface slopes of parking areas for the disabled should be minimal, but are required not to exceed 1/4 in/ft in any direction.

Total Parking in Lot	Required Minimum Number of Accessible Spaces
1 to 25	1 van accessible space
26 to 50	2 including 1 van accessible
51 to 75	3 including 1 van accessible
76 to 100	4 including 1 van accessible
101 to 150	5 including 1 van accessible
151 to 200	6 including 1 van accessible



Except as provided below, access aisles adjacent to accessible spaces shall be 60 in. (1525mm) wide minimum.

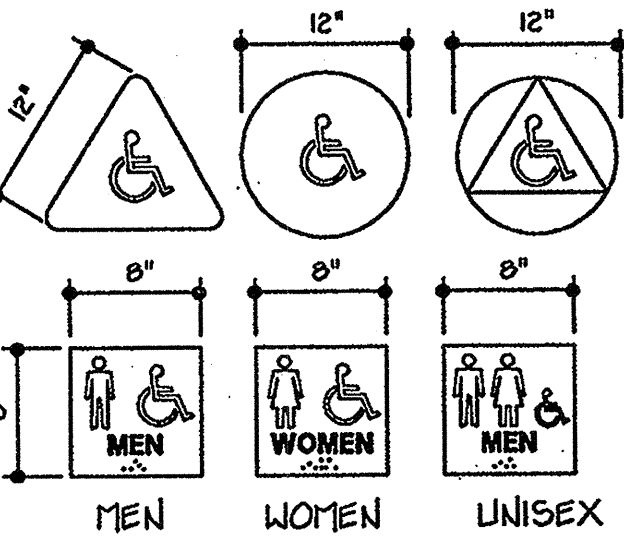
One in every eight accessible spaces, but not less than one, shall be served by an access aisle 96 in. (2440mm) wide minimum and shall be designated "van accessible".

The vertical clearance at such spaces shall be a minimum of 8'-2" and may be grouped on one level of a parking structure.

Since a person with a disability, using a lift or ramp, must maneuver within the access aisle, the aisle cannot include a ramp or sloped area.

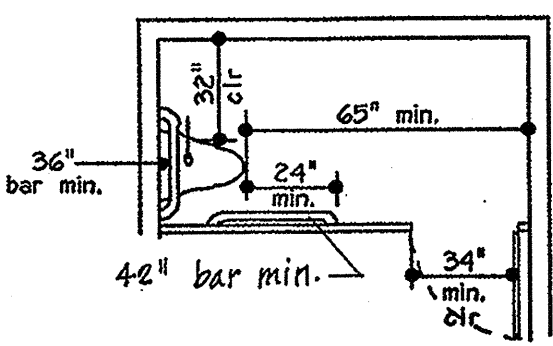
RESTROOM SIGNAGE

1. Characters and symbols are required to contrast with their background.
2. Symbols are to be centered on door 60" above floor and are to be distinctly different from the door in color and contrast.



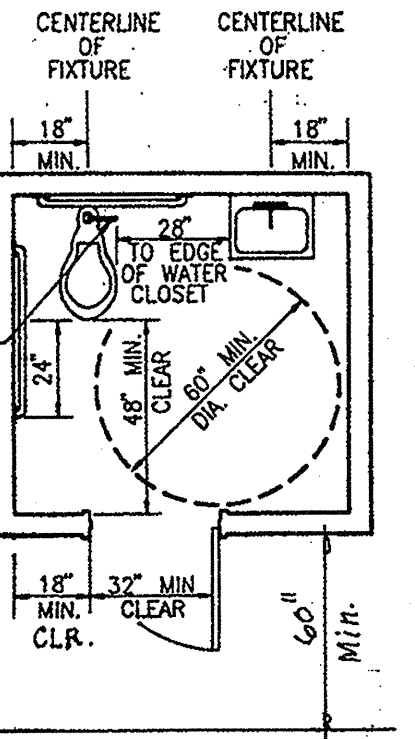
Provide raised letters and Braille lettering @ 60" high to latch side on the out side of door. Raised lettering to be 5/8" to 2" high raised 1/32" sans serif, upper case, non-glare contrasting. Braille to be grade 11, dots = 1/10" on center in each cell with 2/10" space between cells, raised 1/40".

TOILET DETAIL



FRONT ENTRANCE

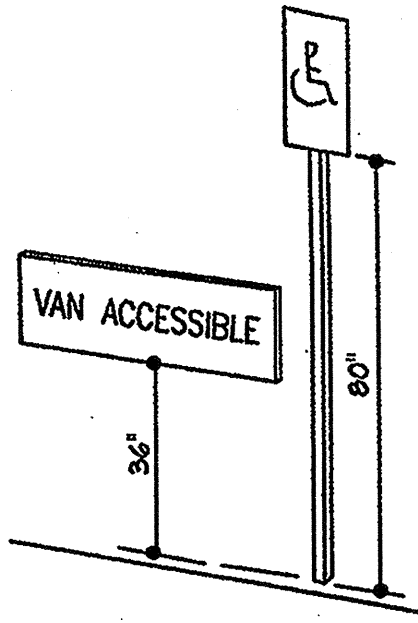
1. Equip the door into the stall with auto closing device and provide a clear opening width of 32" at the end of a stall or 34" at side of stall.
2. Provide 44" wide clear path to a stall and 48" space in front of a compartment door, measured at right angles to door.
3. In multiple accommodations, provide a space 60" in diameter and 27" high or 56" x 36" with 12" maximum intrusion by a door.
4. All accessible toilet compartment doors shall be equipped with a privacy lock with a loop or U-shaped handle immediately below the latch.



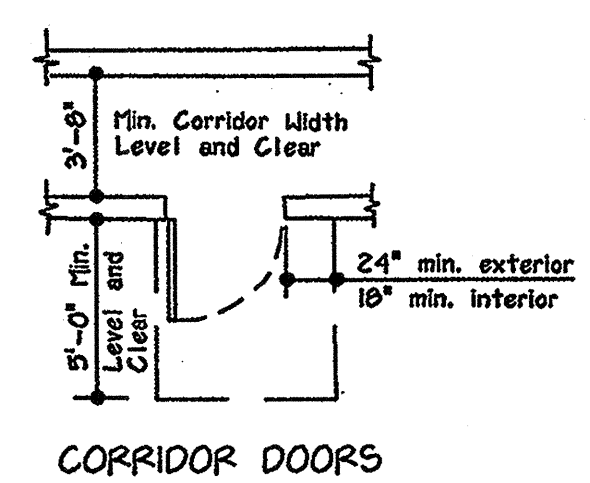
PRIVACY TOILET

SIGNAGE

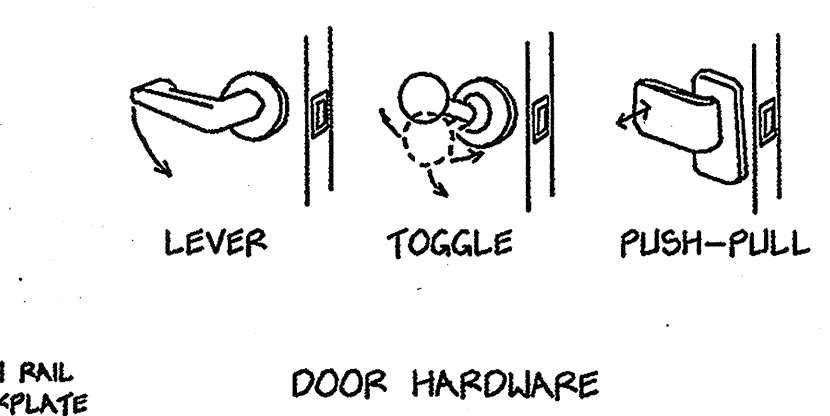
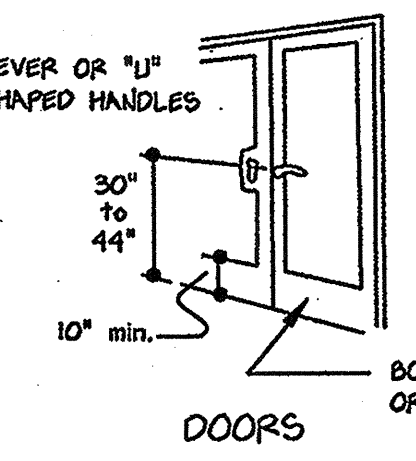
1. Each parking space shall have a permanent (70 sq. in. min.) HANDICAPPED PARKING sign.
2. Free standing signs located at interior end of a parking space shall be mounted a minimum of 80" above finish grade.
3. Wall mounted signs may also be located at interior end of parking space and shall be mounted a minimum of 36" above finish grade.
4. Off-street parking facilities shall have a sign at each street entrance or at each parking stall not less than 17' x 22" in size, in 1" high letters, as follows:



BUILDING ACCESS



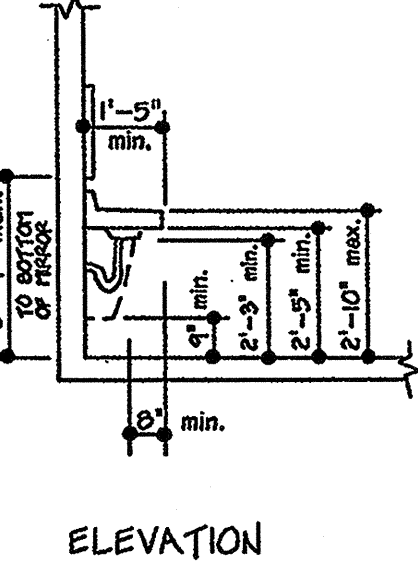
DOOR AND DOOR HARDWARE



DOOR OPENING EFFORTS:
Exterior Doors: 8.5 lbs
Interior Doors: 5 lbs
Firewall Doors: 15 lbs

LAVATORY NOTES

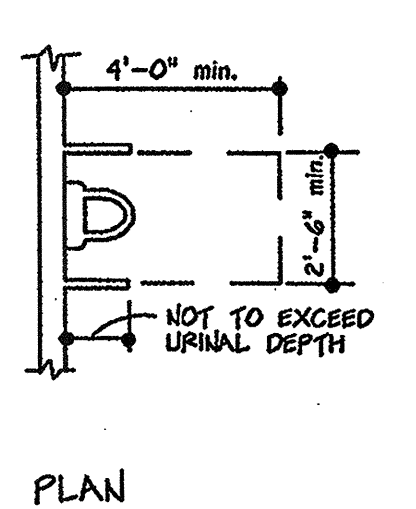
1. Provide a clear space 30" x 48" in front of lavatory. The clear space may extend into knee and toe space under lavatory.
2. Insulate or cover hot water and drain pipes under lavatories.
3. No sharp or abrasive surfaces are allowed under lavatories.
4. Faucet controls and operating mechanisms are required to be operable with one hand and cannot require grasping, pinching, or twisting of wrist. The force required to activate controls is not to exceed 5 lbs. Lever operated, push type and electronically controlled mechanisms are examples of acceptable design.
5. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
6. Top of lavatory shall be a maximum of 34" from finished floor.



ELEVATION

URINAL DETAIL

1. Provide stall type or wall hung urinals with an elongated rim at 17" maximum height. Flush controls to be hand operated and are to meet some requirements as flush controls for toilets and are to be no more than 44" above floor.



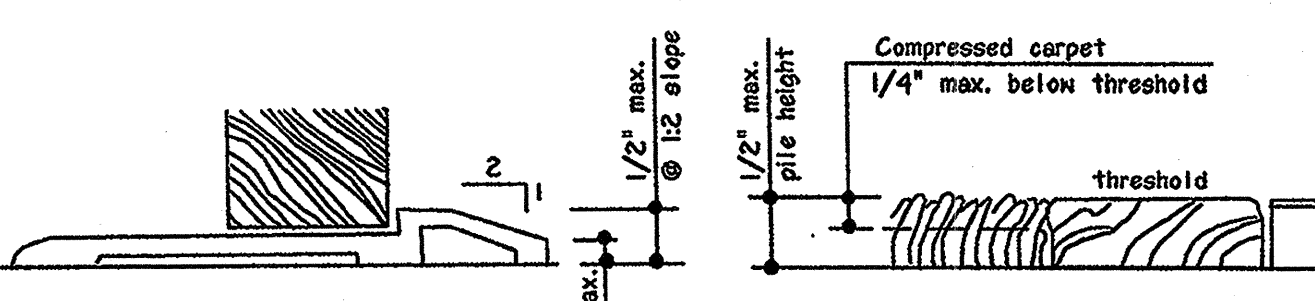
PLAN

ELEVATION

The accessible wall hung urinal shall have an elongated rim at 14" minimum projection.

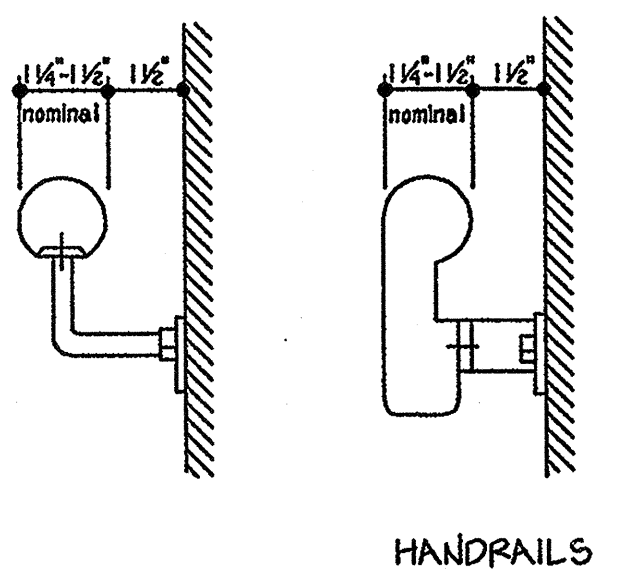
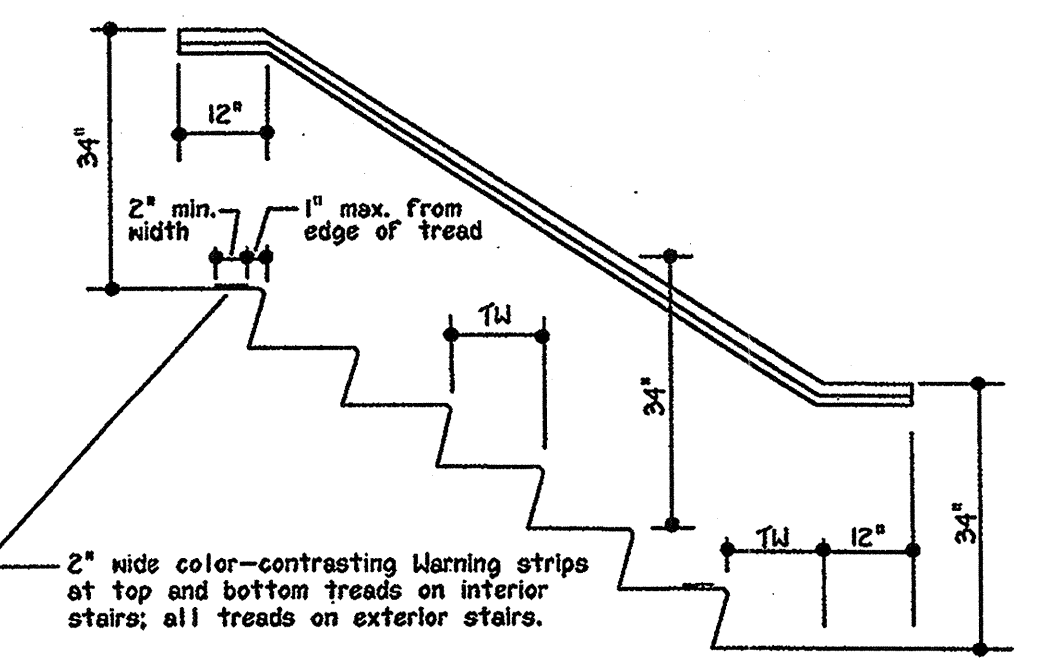
Where urinals are provided at least one shall have a clear space of 30" x 48" in front of urinal.

THRESHOLDS



STAIRS AND HANDRAILS

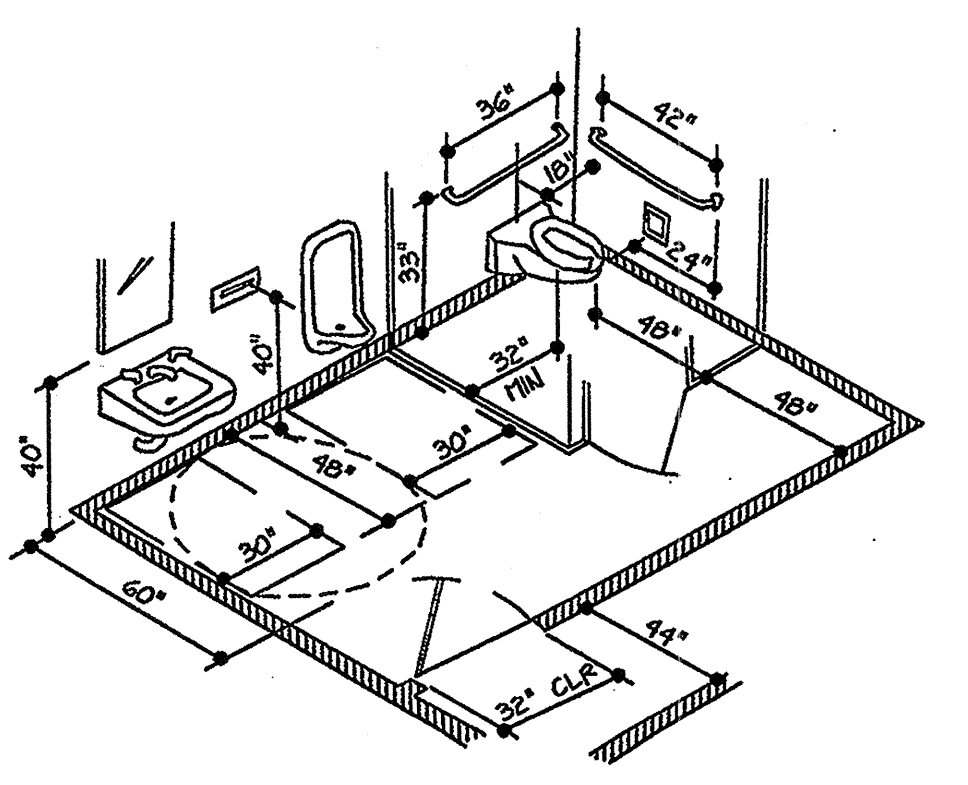
1. Stair risers are uniform and 7" high maximum.
2. Stair treads are uniform and 11" deep minimum.
3. All treads shall be slip-resistant with a smooth, rounded edge.
4. Overall stair width shall be 44" minimum.
5. All handrails shall be 1-1/4" to 1-1/2", uninterrupted, does not rotate within its fittings, and all ends are returned or terminated safely.
6. Stair risers shall be sloped and/or underside of stair nosings shall have an angle of not less than 60 degrees from the horizontal.



HANDRAILS

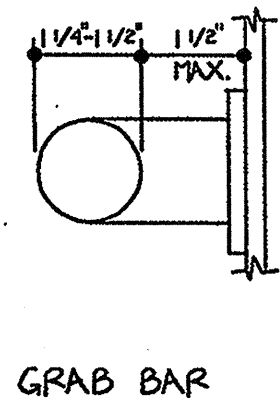
TOILET ACCESSORY DETAIL

1. Where towel, sanitary napkin and waste receptacles and similar dispensing and disposal fixtures are provided, at least one of each type is to be located with all operable parts, including coin slots, within 40" from the floor.
2. Mount mirrors with bottom edge no more than 40" from floor.
3. Locate toilet tissue dispensers on wall within 12" of front edge of toilet seat.



GRAB BAR DETAIL

1. Locate grab bars on each side or one side and the back of toilet, 33" above and parallel to floor. Bars at side to be 42" long with front end 24" in front of toilet. Bars in back to be 36" long. Diameter or width of gripping surface is required to be 1 1/4" to 1 1/2" of shape is to provide an equivalent gripping surface.
2. If grab bars are mounted adjacent to wall, the space between wall and bar is to be 1 1/2".
3. Grab bars shall not rotate.
4. Grab bars and any surface adjacent to them can not have any sharp or abrasive elements.
5. Grab bars and mountings shall withstand 250 lbs/side, 500 lbs total weight/middle.



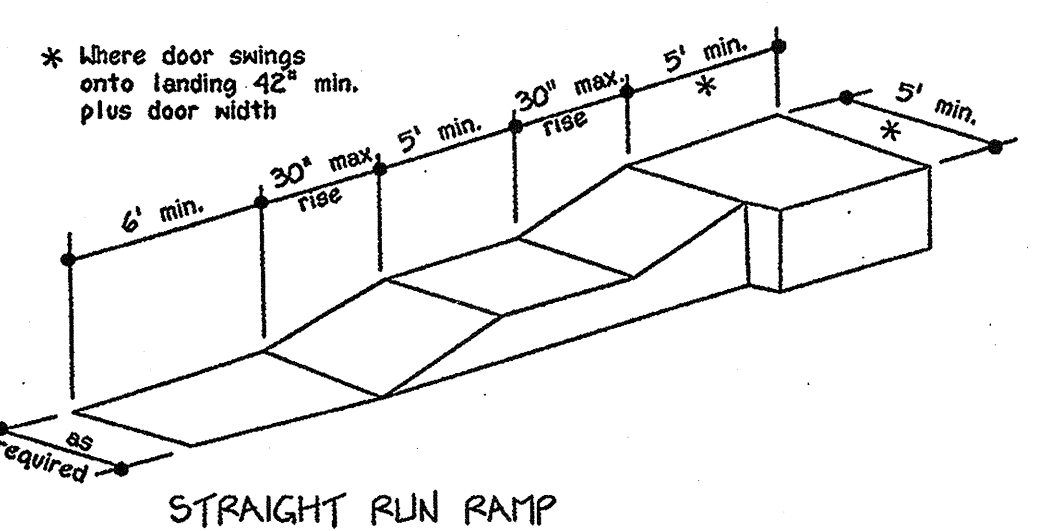
GRAB BAR

RAMP NOTES

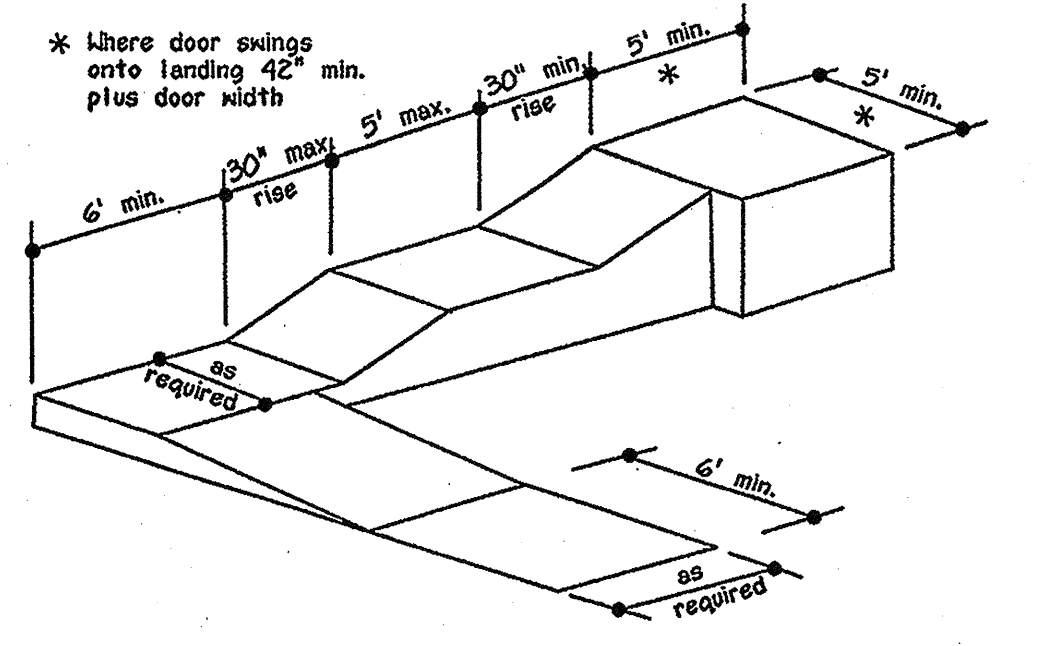
1. Maximum allowable slope of a ramp is 1:12.
2. Landings are required at top and bottom of every ramp.
3. Pedestrian ramps serving primary entrances to buildings with an occupancy load of 500 or more will require 60" clear width; less than 300, width shall be 48".
4. Ramps with occupant load of less than 50 may be 36" wide, when serving Hotels, Apartment houses, Convents, Monasteries and Dwellings.
5. Intermediate landing will be required to be 60" long in the direction of travel.
6. If a ramp has a rise greater than 6" or horizontal projection greater than 72" then it shall have handrails on both sides.
7. Ramps with slopes of 1:16 or steeper will require slip resistant finish.

Note: Examples of ramp dimensions are:

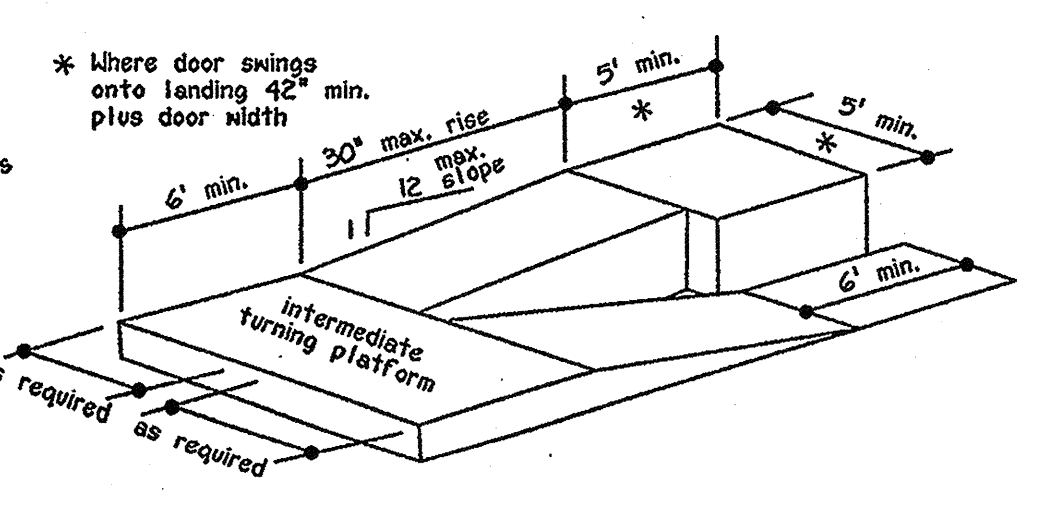
Slope	Max. Rise (inches)	Max. Horizontal Projection (feet)
1:12	30	30
1:15	30	37.5
1:16	30	40
1:20	30	50



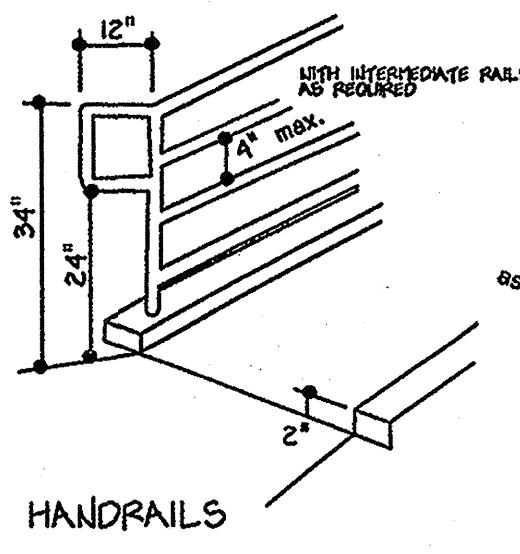
STRAIGHT RUN RAMP



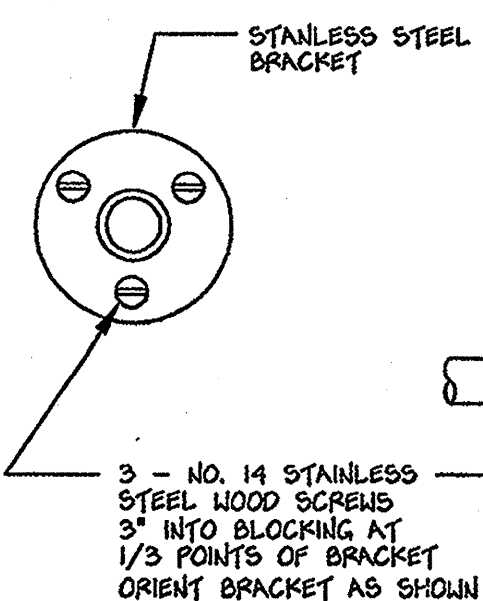
RAMP WITH TURNING PLATFORM



RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM



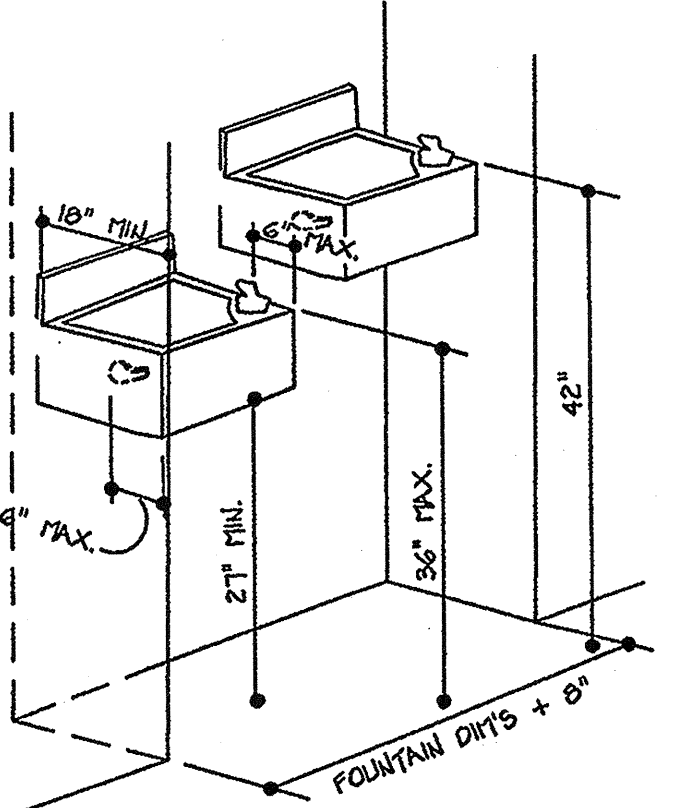
HANDRAILS



GRAB BAR AND HAND RAIL CONNECTION DETAIL

DRINKING FOUNTAINS

1. The drinking fountain shall be a minimum of 18" in depth and there shall be a clear and unobstructed knee space under the drinking fountain not less than 27" in height and 8" in depth, the depth measurement being taken from the front edge of the fountain. Additionally there shall be toe clearance of 9" in height above the floor, and 17" in depth from the front edge of the fountain. A side approach drinking fountain is not acceptable.
2. The bubbler shall be activated by a control which is easily operated by a handicapped person such as a hand-operated lever type control located within 6" of the front of fountain, a push bar control along the front of the drinking fountain, etc. The bubbler outlet orifice shall be located within 6" of the front of the drinking fountain and shall be within 36" of the floor. The water stream from the bubbler shall be substantially parallel to the front edge of the drinking fountain.
3. The drinking fountain shall be located completely within alcoves or so positioned as to not encroach into pedestrian ways.



DRINKING FOUNTAIN ALCOVE

11338.7 Walks and Sidewalks.

11338.7.1 Continuous surface. Walks and sidewalks subject to these regulations shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding 1/2 inch (12.7 mm) (see Section 11338.7.3), and shall be a minimum of 48 inches (1219 mm) in width. Surfaces shall be slip-resistant as follows:

- 11338.7.1.1 Slopes less than 6 percent. Surfaces with a slope of less than 6 percent gradient shall be at least as slip-resistant as that described as a medium salted finish.
- 11338.7.1.2 Slopes 6 percent or greater. Surfaces with a slope of 6 percent gradient shall be slip-resistant.
- 11338.7.1.3 Surface cross slopes. Surface cross slopes shall not exceed 1/4 inch (6 mm) per foot except when the enforcing agency finds that due to local conditions it creates an unreasonable hardship, the cross slope shall be increased to a maximum of 1/2 inch (12.7 mm) per foot for distances not to exceed 20 feet (6096 mm) (2.5% gradient).

EXCEPTION: When, because of right-of-way restrictions, natural barriers or other existing conditions, the enforcing agency determines that compliance with the 48-inch (1219 mm) clear sidewalk width would create an unreasonable hardship, the clear width may be reduced to 36 inches (914 mm).

- 11338.7.2 Gratings. Walks, sidewalks and pedestrian ways shall be free of gratings whenever possible. For gratings located in the surface of any of these areas, grid openings in gratings shall be limited to 1/2 inch (12.7 mm) in the direction of traffic flow.
- EXCEPTIONS: 1. Where the enforcing agency determines that compliance with this section would create an unreasonable hardship, an exception may be granted when equivalent facilities are provided.
2. This section shall not apply in those conditions where, due to legal or physical constraints, the size of the project will not allow compliance with these building standards or equivalent facilities without creating an unreasonable hardship. See Section 101.17.11, Item 4.

11338.7.3 Five percent gradient. When the slope in the direction of travel of any walk exceeds 1 unit vertical to 20 units horizontal (5% gradient), it shall comply with the provisions of Section 11338.5.

11338.7.4 Changes in level. Abrupt changes in level along any accessible route shall not exceed 1/2 inch (12.7 mm). When changes in level do occur, they shall be leveled with a slope no greater than 1 unit vertical to 2 units horizontal (50%), except that level changes not exceeding 1/4 inch (6 mm) may be vertical.

When changes in levels greater than 1/2 inch (12.7 mm) are necessary, they shall comply with the requirements for curb ramps.

NOTE: See Section 11278.5.

11338.7.5 Level areas. Walks shall be provided with a level area not less than 60 inches by 60 inches (1524 mm by 1524 mm) at a door or gate that swings toward the walk, and not less than 48 inches wide by 44 inches (1219 mm by 1118 mm) deep at a door or gate that swings away from the walk. Such walks shall extend 24 inches (610 mm) to the side of the strike edge of a door or gate that swings toward the walk. (For example, see Figure 11B-26B.)

11338.7.6 Walks with continuous gradients. All walks with continuous gradients shall have level areas at least 5 feet (1524 mm) in length at intervals of at least every 400 feet (121 920 mm).

11338.8.3 Detectable warnings at transit boarding platforms. Transit boarding platforms shall have a detectable warning texture extending the full length of the loading area. This detectable warning texture shall have the following features:

Width 24 to 36 inches (610 mm to 914 mm) placed at the edge of the drop-off or safe area.

Durable, slip-resistant material having a surface texture composed of raised, truncated domes in a staggered pattern with a diameter of nominal 0.9 inch (22.86 mm) at the base tapering to 0.45 inch (11.4 mm) at the top, a height of nominal 0.2 inch (5.08 mm), and a center-to-center spacing of nominal 2.35 inches (59.6 mm) in compliance with Figure 11B-23A: "Nominal" as used here shall be in accordance with California State Referenced Standards Code Section 12-11-102. The detectable warning shall contrast visually with adjoining surfaces, either light on dark or dark on light. The material used to provide contrast shall be an integral part of the walking surface. Warning surfaces shall differ from adjoining walking surfaces in resiliency or sound on cane contact. This surface shall be reserved for warning.

Color yellow conforming to Federal Color No. 3353B, as shown in Table IV of Standard No. 595B. Where the color value contrast between the yellow warning and the main walking surface is less than 70 percent, a 1 inch-wide (25 mm) black strip shall separate the yellow warning from the main walking surface. Contrast shall be determined by:

Contrast = [(B1-B2/B1)] x 100 percent where B1 = light reflectance value (LRV) of the lighter area and B2 = light reflectance value (LRV) of the darker area.

11338.8.4 Detectable directional texture at boarding platforms. At transit boarding platforms, the pedestrian access shall be identified with a detectable directional texture. This detectable directional texture shall comply with Figure 11B-23B and shall be 0.1 inch (2.54 mm) in height that tapers off to 0.04 inch (1.02 mm), with bars raised 0.2 inch (5.08 mm) from the surface. The raised bars shall be 1.3 inches (33.02 mm) wide and 3 inches (76 mm) from center-to-center of each bar. This surface shall differ from adjoining walking surfaces in resiliency or sound on cane contact. The color of the directional texture shall comply with Section 11338.8.3. This surface will be placed directly behind the yellow detectable warning texture specified in Section 11338.8.3, aligning with all doors of the transit vehicles, where passengers will embark. The width of the directional texture shall be equal to the width of the transit vehicle's door opening. The depth of the texture shall not be less than 36 inches (914 mm).

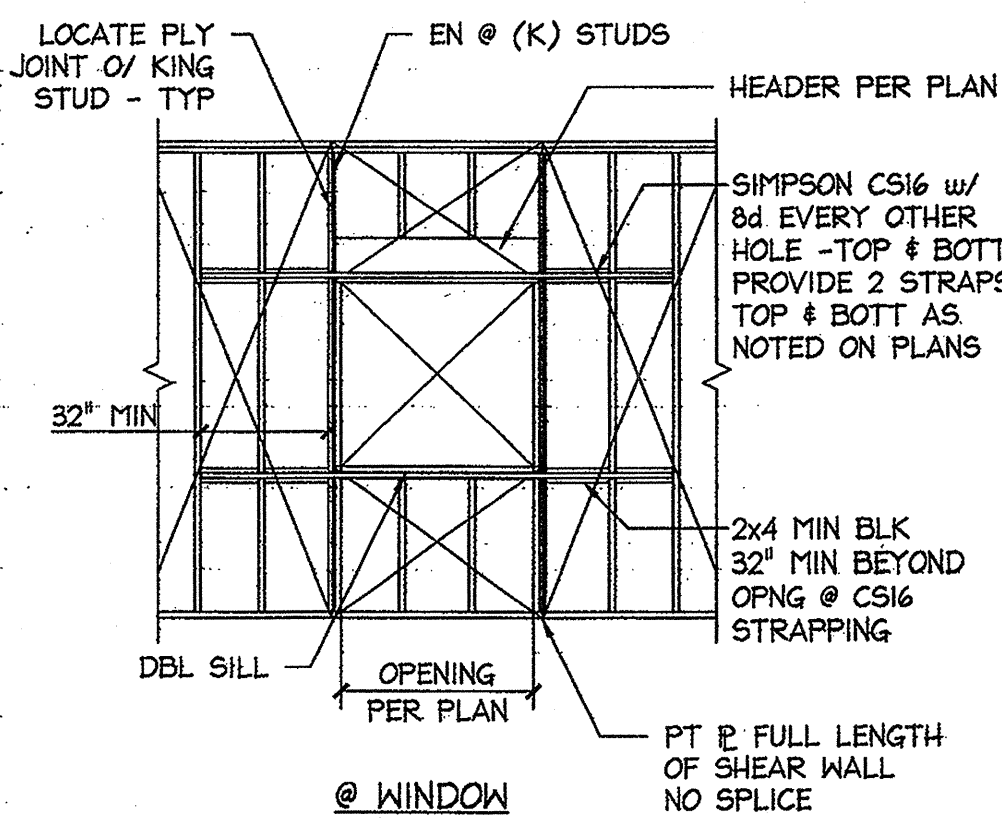
11338.8.5 Detectable warnings at hazardous vehicular areas. If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning which is 36 inches (914 mm) wide, complying with Sections 11338.8.3 through 11338.8.5.

TYPE	SHEATHING	ANCHOR BOLT	SHEATHING FASTENER	FSTNR SPACING		REMARKS
				EDGE	FIELD	
C	3/4" APA RATED SHTG 16/0 EXP 1, PLY OR OSB	5/8" AB @ 48" OC	8d COMMON NAILS	6" OC	12" OC	
D	3/4" APA RATED SHTG 16/0 EXP 1, PLY OR OSB	5/8" AB @ 32" OC	8d COMMON NAILS	4" OC	12" OC	
D	3/4" APA RATED SHTG 16/0 EXP 1, PLY OR OSB	5/8" AB @ 32" OC	8d COMMON NAILS	4" OC	12" OC	3x MIN @ ADJ PANEL EDGES & FDN SILL E's
E	3/4" APA RATED SHTG 16/0 EXP 1, PLY OR OSB	5/8" AB @ 32" OC	8d COMMON NAILS	3" OC	12" OC	3x MIN @ ADJ PANEL EDGES & FDN SILL E's
F	3/4" APA RATED SHTG 16/0 EXP 1, PLY OR OSB	5/8" AB @ 24" OC	8d COMMON NAILS	2" OC	12" OC	3x MIN @ ADJ PANEL EDGES & FDN SILL E's

NOTES:

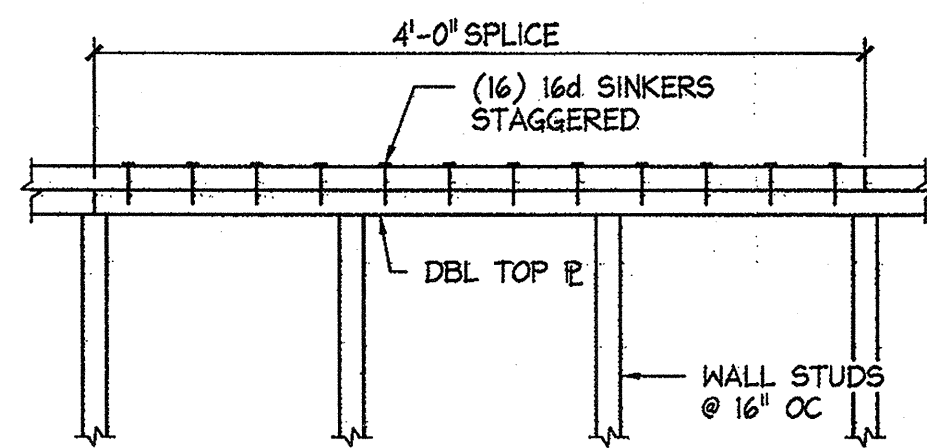
- INSTALL WALL SHTG PRIOR TO CONSTRUCTION OF POP-OUTS & ADJACENT WALLS.
- BLOCK ALL PANEL EDGES.
- ALL NAILS INTO PRESSURE TREATED SILL E'S SHALL BE HOT DIPPED GALVANIZED.

24 SHEARWALL SCHEDULE



23 SPECIAL SHEAR WALL

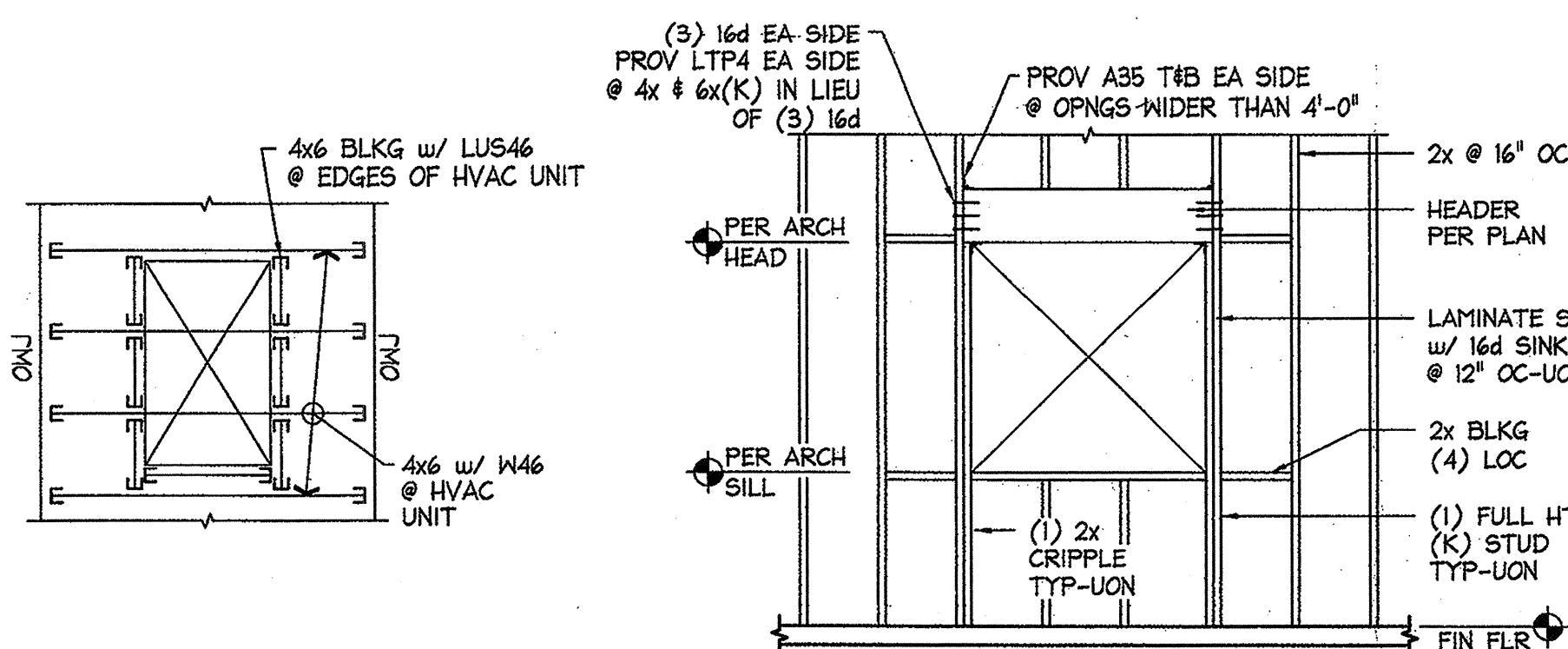
NTS



NOTE: WHERE 4'-0" SPLICE IS NOT AVAILABLE PROVIDE CS16 x 24" LONG w/ 8d EVERY OTHER HOLE EA SIDE

18 TOP PLATE SPLICE

1" = 1'-0"



NOTE:

- VERIFY LOC w/ MECH. LOCATE UNITS SUCH THAT LOADING TO EA OWL IS 1500# MAX.

21 HVAC UNIT SUPPORT

1/4" = 1'-0"

17 DOOR SIM

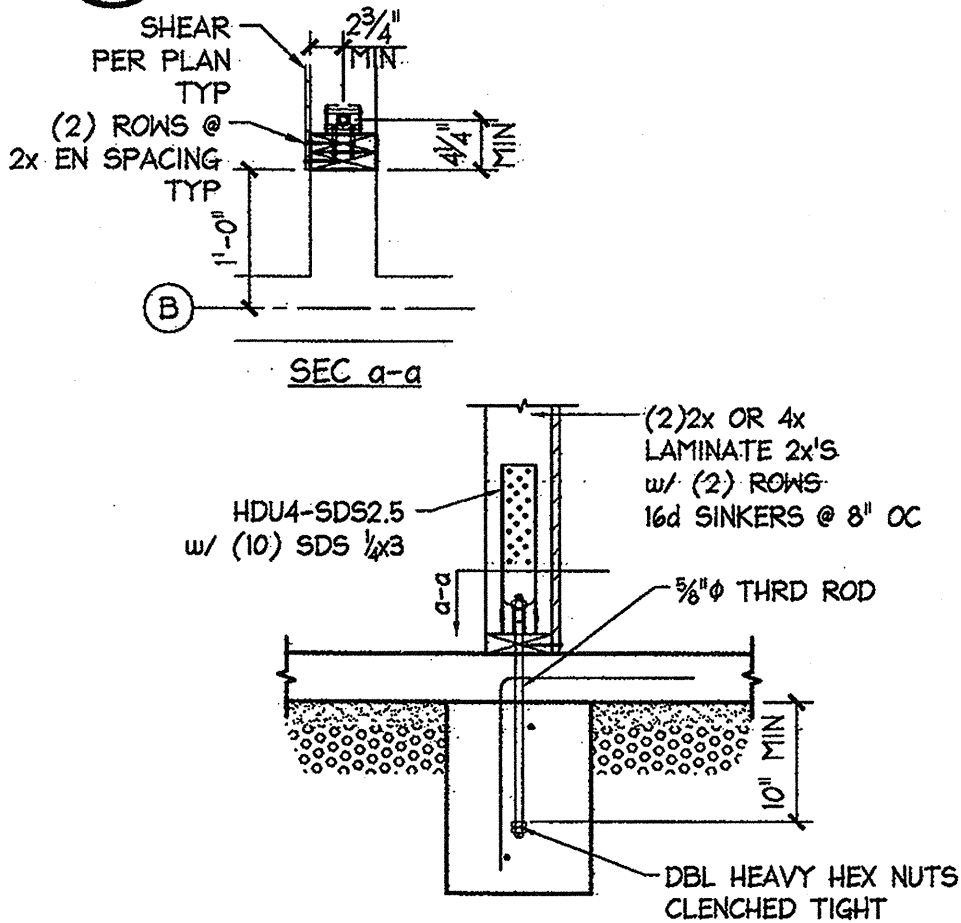
1/2" = 1'-0"

13 SLAB ON GRADE

SOFT-CUT (SC) 3/4" = 1'-0"

16 FOOTING DETAIL

1/2" = 1'-0"

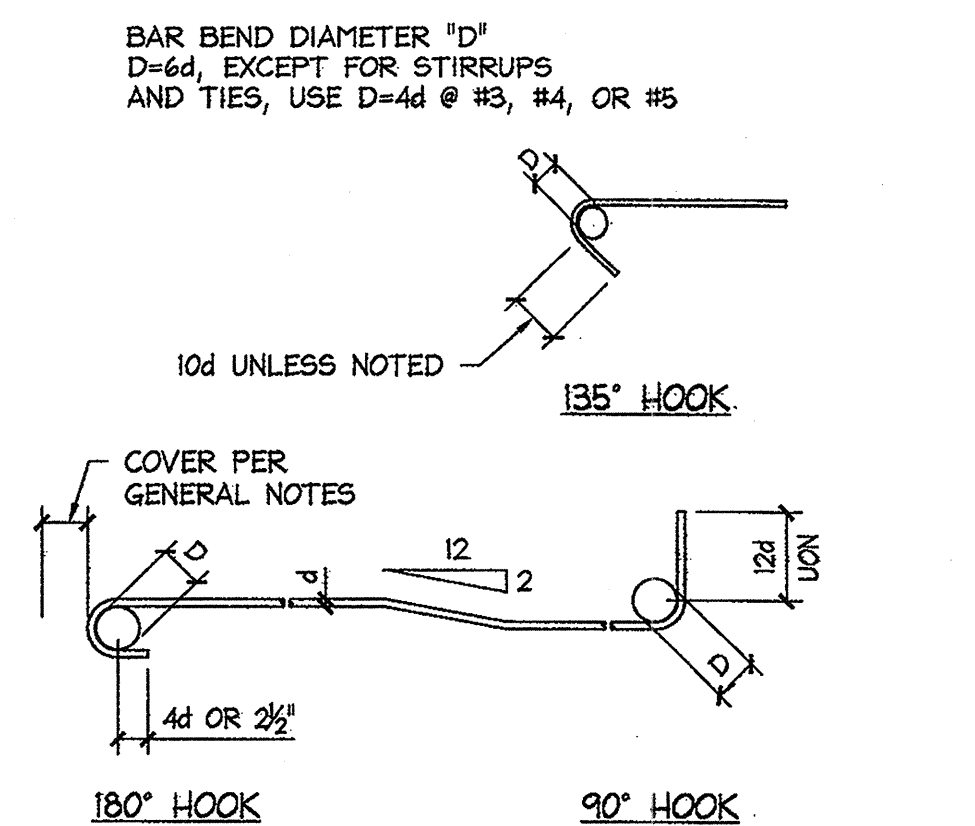


15 HDU HOLDOWN

3/4" = 1'-0"

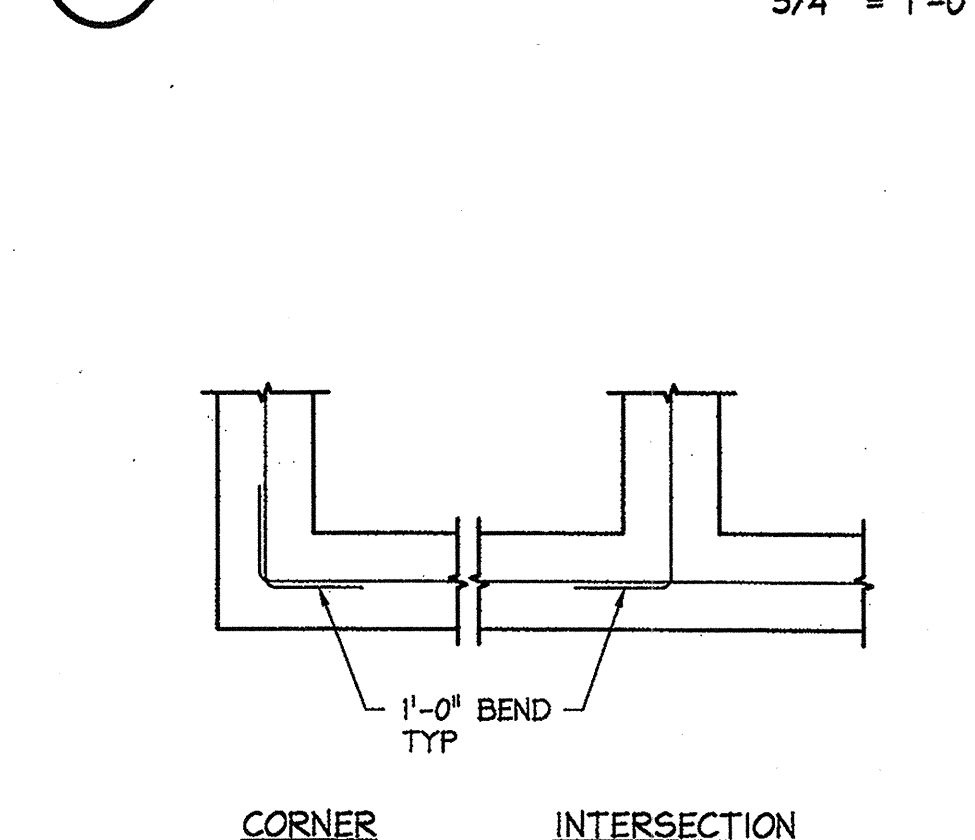
11 PIPES & TRENCHES

1/2" = 1'-0"



10 REINF BAR BENDS

3/4" = 1'-0"



9 TYP FOOTING REINF

1/2" = 1'-0"

- GENERAL
 - THE STRUCTURAL DESIGN FOR THIS BUILDING IS IN ACCORDANCE WITH THE 2001 EDITION OF THE CALIFORNIA BUILDING CODE (CBC).
 - THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:
 - ROOF LIVE LOAD - 20.0 PSF, REDUCIBLE PER CBC TABLE 16C, METHOD 1.
 - DEAD LOAD - AS REQUIRED.
 - WIND: CBC 7.0 MIN BASIC WIND SPEED WITH EXPOSURE C AND 1.0 IMPORTANCE FACTOR.
 - SEISMIC: CBC ZONE 4 USING THE STATIC DESIGN PROCEDURE (16.0.2.1), WITH 5d SLAB PROFILE TYPE, C40-0.44, C40-0.64, & R-5.5 FOR PLYWOOD SHEAR WALLS.
 - FOUNDATIONS HAVE BEEN DESIGNED FOR MAXIMUM SOIL BEARING PRESSURES IN ACCORDANCE WITH CBC TABLE 18-A-1 TYPE 4 (SILTY SANDS, CLAYEY SANDS). FOOTINGS HAVE BEEN DESIGNED FOR 1,500 PSF.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE BRACING AND SUPPORT OF ALL TEMPORARY CONSTRUCTION AND PARTIALLY COMPLETED PORTIONS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ADJACENT PAVED SURFACES, UTILITIES AND STRUCTURES.
 - THE WORK SHALL CONFORM TO THESE NOTES AND DRAWINGS. NO CHANGES SHALL BE ALLOWED WITHOUT WRITTEN AUTHORITY FROM THE ARCHITECT.
 - SLAB ON GRADE AND WATER VAPOR TRANSMISSION - NO GUARANTEE IS GIVEN THAT SLAB ON GRADE SYSTEM (DRAINAGE BASE, VAPOR BARRIER, SAND CUSHION, AND SLAB THICKNESS AND REINFORCEMENT) AS SHOWN ON THESE DRAWINGS WILL REDUCE MOISTURE OR MOISTURE VAPOR TRANSMISSION TO ANY SPECIFIC LEVELS OR RATES TO INHIBIT MOLD GROWTH OR NOT ADVERSELY AFFECT MOISTURE-SENSITIVE FLOORING. IF SPECIFIC LEVELS OR RATES ARE TO BE ACHIEVED, THEN A QUALIFIED CONSULTANT SHOULD BE RETAINED TO PROVIDE RECOMMENDATIONS.
- EARTHWORK
 - THESE NOTES APPLY TO STRIPPING AND REMOVAL OF STRUCTURES, VEGETATION, AND DEBRIS; EXCAVATING; SCARIFYING; RECONSTRUCTION OF SOILS; GRADING OR FILLING TO SUB-BASE ELEVATION; FOUNDATION EXCAVATION AND BACK FILLING; AND PROVIDING AND COMPACTING DRAINAGE BASE, VAPOR BARRIER, AND SAND CUSHION UNDER SLABS ON GRADE WITHIN THE BUILDING LIMITS.
 - FILL SHALL BE APPROVED ON SITE SOILS OR SELECT GRANULAR IMPORT FILL.
 - PRIOR TO COMMENCING ANY EARTHWORK, STRIP THE AREA WITHIN THE BUILDING LIMITS TO REMOVE SURFACE OBSTRUCTIONS, ASPHALT PAVING, BRUSH, VEGETATION, AND ORGANIC CONTAMINATED SOILS. STRIPPING LIMITS TO EXTEND 8'-0" MINIMUM BEYOND EXTERIOR EDGE OF FOUNDATIONS; EXCAVATIONS, Voids LEFT BY THE REMOVAL OF STRUCTURE, FOUNDATIONS, TREES AND THEIR ROOT SYSTEMS, IRRIGATION LINES AND ANY OTHER BURIED OBJECTS SHOULD BE OVER-EXCAVATED AND RECOMPACTED.
 - AFTER STRIPPING OPERATIONS, OVEREXCAVATE TO A MINIMUM DEPTH OF 2' BELOW BOTTOM OF FOOTINGS.
 - AFTER OVEREXCAVATION, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 4" AND RECOMPACT TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 TEST PROCEDURE AT A MOISTURE CONTENT BETWEEN 1% AND 4% ABOVE OPTIMUM.
 - GRADE AS REQUIRED TO SUB-GRADE. PLACE REQUIRED FILL IN 6" MAXIMUM OF LOOSE THICKNESS UNIFORMLY MOISTURE CONDITIONED AS NECESSARY AND COMPACT TO 90% RELATIVE DENSITY IN ACCORDANCE WITH 2.E.
 - AFTER GRADING, EXCAVATE FOR FOUNDATIONS. FILL FOOTING OVER-EXCAVATION WITH CONCRETE. ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW GRADE AND NOT GREATER THAN THE SPECIFIED ELEVATION.
 - AFTER FOUNDATIONS ARE CONSTRUCTED, BACKFILL TO SUB-GRADE PER 2.F. ABOVE.
- SLAB ON GRADE
 - SHALL HAVE A 4 INCH THICK COMPACTED DRAINAGE BASE WITH 10 MIL (15 MIL IF SLAB IS PLACED BY LASER SCREED) ASTM E746, CLASS A VAPOR RETARDER AND SAND CUSHION OVER PREPARED SURGRADE.
 - DRAINAGE BASE SHALL BE CLEAN AND WELL GRADED GRAVEL WITH A MAXIMUM SIZE OF 1/4", A MINIMUM SIZE OF 1/8", AND WITH LESS THAN 5% PASSING THE NO. 4 SIEVE. DRAINAGE BASE SHALL BE GRADED TO REQUIRED ELEVATION, WITHIN A TOLERANCE OF +1/4 INCH TO -1/2 INCH, COMPACT DRAINAGE BASE AS DIRECTED BY SOILS ENGINEER.
 - AFTER DRAINAGE BASE IS COMPACTED PLACE VAPOR RETARDER AND 2 INCHES OF CLEAN SAND CUSHION. VAPOR RETARDER TO BE PLACED IN ACCORDANCE WITH ASTM E746, LAP VAPOR RETARDER JOINTS 6" MINIMUM AND TAPE WITH TAPE AS RECOMMENDED BY MANUFACTURER. ALL PENETRATIONS (ELECTRICAL AND COMMUNICATIONS CONDUITS, PLUMBING, ETC.) TO BE SEALED AND MADE MOISTURE RESISTANT AS RECOMMENDED BY MANUFACTURER. VAPOR RETARDER SHALL EXTEND ACROSS TOP OF SPREAD FOOTINGS AND SEALED MOISTURE TIGHT.
 - AFTER VAPOR RETARDER IS INSTALLED, PLACE 2" OF SAND CUSHION. MOISTURE CONTENT OF THE SAND CUSHION SHOULD NOT EXCEED 4% BY DRY WEIGHT. SHOULD SAND CUSHION BECOME OVERLY WET, REMOVE AND REPLACE CONFORMING SAND.
 - ALL EXCAVATIONS AND APPROVED EARTHWORK SHALL BE PROTECTED FROM WEATHER AND WATER ACCUMULATION AT ALL TIMES.
 - ANY PROPOSED DEVIATIONS FROM THE ABOVE EARTHWORK REQUIREMENTS SHALL HAVE THE SOIL ENGINEER'S PRIOR WRITTEN APPROVAL.
- CONCRETE
 - CONCRETE MIX DESIGNS:
 - SPREAD AND CONTINUOUS FOOTINGS AND INTERIOR SLABS ON GRADE: 2,500 PSI 28 DAY COMPRESSIVE STRENGTH MADE WITH 1" ASTM C39 AGGREGATES (145 PCF MINIMUM DENSITY) AND CONTAIN MINIMUM OF 5.75 BAGS OF CEMENT PER CUBIC YARD WITH A MAXIMUM SIZE OF 1/2". A MINIMUM SIZE OF 1/4" AND WITH LESS THAN 5% PASSING THE NO. 4 SIEVE. DRAINAGE BASE SHALL BE GRADED TO REQUIRED ELEVATION, WITHIN A TOLERANCE OF +1/4 INCH TO -1/2 INCH, COMPACT DRAINAGE BASE AS DIRECTED BY SOILS ENGINEER.
 - EXTERIOR SLABS ON GRADE, CURBS, & GUTTERS: 2,500 PSI 28 DAY COMPRESSIVE STRENGTH MADE WITH 1" ASTM C39 AGGREGATES (145 PCF MINIMUM DENSITY) AND CONTAIN MINIMUM OF 5.0 BAGS OF CEMENT PER CUBIC YARD WITH A 0.60 WATER/CEMENT RATIO AND PLACED AT A 5" MAXIMUM SLUMP.
 - GROUT FOR COLUMN BASE PLATES:
 - PRE-PACKAGED NON-SHRINK TYPE, PRE-MIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.
 - GROUT TO BE MIXED IN ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS TO A FLOWABLE CONSISTENCY.
 - CEMENT SHALL BE ASTM C150, TYPE I. FLYASH USED AS A REPLACEMENT FOR CEMENT NOT ALLOWED.
 - AGGREGATE SHALL CONFORM TO ASTM C33.
 - CONTRACTOR SHALL RETAIN A TESTING LABORATORY TO DESIGN AND TEST CONCRETE MIX DESIGNS. SUBMIT SEPARATE MIX DESIGNS IF CONCRETE IS TO BE PUMPED.
 - ALL CONCRETE SHALL BE READY-MIXED CONCRETE AND SHALL BE BATCHED, MIXED AND DELIVERED TO SITE PER ASTM C94. WATER SHALL BE ADDED ONLY TO OBTAIN MINIMUM SLUMP. PLACE CONCRETE WITHIN 90 MINUTES OF THE ADDITION OF MIXING WATER.
 - REINFORCEMENT:
 - REBAR SHALL BE ASTM A615, GRADE 60.
 - FIBERGLASS TO BE CEM-FIL ANTI-CRACK HP AR GLASS FIBER IN ACCORDANCE WITH E9-REPORT ESR-1226. FIBERS TO BE BLENDED INTO THE CONCRETE MIX IN ACCORDANCE WITH ASTM C1116 AT A DOSE RATE OF 1 POUND PER CUBIC YARD OF CONCRETE. A DELIVERY TICKET, SIGNED BY THE WEIGHT MASTER, SHALL BE DELIVERED TO THE CONTRACTOR'S SUPERINTENDENT AND SHALL INCLUDE THE TYPE AND AMOUNT OF FIBERS ADDED TO THE CONCRETE MIX IN ADDITION TO THE ITEMS NOTED IN SECTION 16.1 OF ASTM C 94-04.
 - REINFORCEMENT SHALL BE FABRICATED WITH BEND AND HOOKS CONFORMING TO ACI 308 AND AS SHOWN ON DRAWINGS. LAP ALL REINFORCING MINIMUM OF 40 BAR DIAMETERS (BUT NOT LESS THAN 12") UNLESS OTHERWISE NOTED.
 - REINFORCEMENT SHALL BE HELD SECURELY IN PLACE AND SUPPORTED ON GALVANIZED CHAIRS CONFORMING TO CRSI. WIRE THE ALL INTERSECTIONS. CONCRETE DOBIES MAY BE USED TO SUPPORT REBAR CAST AGAINST EARTH.
 - MINIMUM CONCRETE COVER OVER REINFORCEMENT SHALL BE 3" FOR CONCRETE CAST AGAINST EARTH, 2" FOR FORMED SURFACES EXPOSED TO EARTH OR WEATHER, AND 1" FOR FORMED SURFACES NOT EXPOSED TO WEATHER UNLESS OTHERWISE SHOWN.
 - PROVIDE SLAB ON GRADE JOINTS PER DETAILS.
 - CHAMFER OR TOOL ALL EXPOSED EDGES 3/4".
 - PROVIDE HOT AND COLD WEATHER PROTECTION PER ACI 308 AND 306 RESPECTIVELY.
 - ALL CONCRETE SHALL BE NET CURED FOR 7 DAYS MINIMUM BY NET CURING OR WITH CURING COMPOUND. CURING COMPOUNDS TO BE COMPATIBLE WITH FLOOR FINISHES.
- STRUCTURAL STEEL
 - ALL STEEL CONSTRUCTION SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE "CODE OF STANDARD PRACTICE" OF AISC.
 - PLATES - ASTM A588; TUBES - ASTM A500, GRADE B; MACHINE BOLTS - ASTM A307; ANCHOR BOLTS - ASTM F1554, GRADE 36 WITH STANDARD NUTS.
 - WELDING:
 - SHALL CONFORM TO AWS D1.1 ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS.
 - ELECTRODES - FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF AWS/AAS SPECIFICATIONS FOR ELECTRODES. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 70 KSI UNLESS OTHERWISE NOTED.
 - FILLET WELDS - FILLET WELD SIZES SHALL BE THE LARGER OF THE SIZES AS SHOWN ON STRUCTURAL DRAWINGS AND AS REQUIRED BY AISC TABLE J2.4.
 - SUBMITTAL DRAWINGS:
 - OBTAIN ENGINEER'S REVIEW OF SUBMITTALS IN A TIMELY MANNER SO AS NOT TO ADVERSELY AFFECT CONSTRUCTION SCHEDULE. ALLOW 10 WORKING DAYS FOR REVIEW.
 - SUBMITTAL DRAWINGS SHALL:
 - INDICATE PROFILES, SIZES, SPACING, LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, ATTACHMENTS, AND FASTENERS.
 - SUBMIT SHOP STANDARDS FOR EACH TYPE OF CONNECTION REQUIRED, CORRESPONDING TO STRUCTURAL DRAWINGS.
 - SUBMIT ERECTION AND PLACING DRAWINGS SHOWING SIZE AND PLACE MARK OF EACH MEMBER AND ITS LOCATION.
 - INDICATE WELDED CONNECTIONS WITH AWS D1.1 WELDING SYMBOLS. INDICATE NET WELD LENGTHS.
 - SUBMIT 3 COPIES OF SUBMITTAL DRAWINGS. ONE REVIEWED SET WILL BE RETURNED TO THE CONTRACTOR FOR REPRODUCTION AND DISTRIBUTION.
 - PRIME PAINTING OF STEEL NOT REQUIRED EXCEPT WHERE STEEL IS EXPOSED TO WEATHER.
 - OPEN WEB STEEL JOISTS
 - OPEN WEB STEEL JOISTS AND JOISTS GIRDERS ARE TO BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH SJI'S "RECOMMENDED CODE OF STANDARD PRACTICE OF STEEL JOISTS AND JOISTS GIRDERS".
 - SEE DRAWINGS FOR LOADING, CLEARANCE, AND SPAN CRITERIA.
 - SUBMITTAL DRAWINGS AND CALCULATIONS:
 - OBTAIN ENGINEER'S REVIEW OF SUBMITTALS IN A TIMELY MANNER SO AS NOT TO ADVERSELY AFFECT CONSTRUCTION SCHEDULE. ALLOW 10 WORKING DAYS FOR REVIEW.
 - DESIGN OF OPEN WEB JOISTS AND JOIST GIRDERS SHALL BE UNDER THE DIRECT SUPERVISION OF A CALIFORNIA REGISTERED CIVIL ENGINEER.
 - DRAWINGS AND CALCULATIONS TO INCLUDE, AS A MINIMUM, THE FOLLOWING:
 - TRUSS LAYOUT DRAWINGS AND FIELD DETAILS.
 - TRUSS CALCULATIONS TO SHOW SHOP DETAILS, AXIAL AND BENDING STRESSES, AND JOINT DESIGNS AND TO SHOW CLEARLY THAT THE DESIGN CONFORMS TO THE CBC.
 - SUBMIT 3 COPIES OF DRAWINGS AND 3 SETS OF NET SIGNED CALCULATIONS. ONE REVIEWED SET WILL BE RETURNED TO THE CONTRACTOR FOR REPRODUCTION AND DISTRIBUTION.
 - MANUFACTURER AND ERECTOR ARE RESPONSIBLE FOR BRIDGING, TEMPORARY BRACING, AND COORDINATING OF JOIST, JOIST GIRDERS, AND BRIDGING CONNECTIONS.
 - WOOD FRAMING
 - ALL FRAMING MEMBERS SHALL BE IDENTIFIED BY GRADE STAMP OF WEST COAST LUMBER INSPECTION BUREAU.
 - FRAMING MEMBERS TO BE OF NO. 2 WITH MAXIMUM MOISTURE CONTENT, EXCEPT AS FOLLOWS:
 - 6x MEMBERS - D.F. NO. 1 WITH MAXIMUM MOISTURE CONTENT.
 - PLATES, LEDGES, AND BLOCKING - HEAVY FIBER OR D.F. NO. 2 WITH MAXIMUM MOISTURE CONTENT.
 - PRESERVATIVE TREATED WOOD:
 - PRESERVATIVE TREATED WOOD SHALL BE USED ONLY WHERE SHOWN ON DRAWINGS AND SHALL NOT BE USED IN PLACE OF OTHER FRAMING UNLESS WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER IS OBTAINED.
 - PRESERVATIVE TREATMENT SHALL BE EITHER ZINC BORATE OR DOT SODIUM BORATE.
 - NAILS USED TO FASTEN FRAMING AND CONNECTORS TO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A663, CLASS G40.
 - MACHINE BOLTS - ASTM A307. PROVIDE WASHERS UNDER NUTS AND BOLTS UNDER HEADS WHICH BEAR AGAINST WOOD.
 - ALL FRAMING MEMBERS ARE TO BE CUT FOR FULL BEARING AND PROPER LENGTH.
 - NAILING - PER CBC TABLE 23-II-B-1. ALL NAILS TO BE BOX, EXCEPT 8d AND 10d COMMON REQUIRED FOR SHEATHING. NAILING FOR JOIST HANGERS AND FRAMING CONNECTORS PER MANUFACTURER'S REQUIREMENTS FOR FULL RATED VALUES OR AS NOTED.
 - LAG BOLTS:
 - LAG BOLTS SHALL CONFORM TO ANS/AWS STANDARD B18.2.1.
 - LEAD HOLES FOR LAG BOLT INSTALLATION:
 - CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK DIAMETER, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF THE UNTHREADED SHANK.
 - LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60% TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
 - THE THREADED PORTION OF THE LAG BOLT SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH HAMMER.
 - SOUP OF OTHER LUBRICANT SHALL BE USED ON THE LAG BOLTS OR IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE LAG SCREW.
 - PARALLEL PSI BEAMS (NOTED AS "PSI" ON DRAWINGS) SHALL BE AS MANUFACTURED BY TRUSS JOIST/MACHILLAN IN ACCORDANCE WITH ICB REPORT NO. ER-47R.
 - PLYWOOD:
 - ROOFS NOTED "PANELIZED" - SHALL BE 5/8" APA RATED SHEATHING, 40/20 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 10d COMMONS @ 6" O.C. AND FIELD @ 12" o.c. UNLESS OTHERWISE NOTED. INSTALL SHEETS WITH FACE GRAIN PARALLEL TO SUPPORTS.
 - ROOFS NOT NOTED "PANELIZED" - SHALL BE 5/8" APA RATED SHEATHING, 32/16 PANEL INDEX, EXPOSURE 1 OR 1/2" APA RATED SHEATHING, 24/0 PANEL INDEX, EXPOSURE 1 AS NOTED. NAIL EDGES WITH 10d COMMONS @ 6" O.C. AND FIELD @ 12" o.c. INSTALL SHEETS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
 - SHEAR WALL SHEATHING SHALL BE 5/8" APA RATED SHEATHING, 24/0 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 10d COMMONS @ 6" O.C. AND FIELD @ 12" o.c.
 - FASCIA AND SOFFIT SHEATHING - SHALL BE 1/2" APA RATED SHEATHING, 24/0 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 8d COMMONS @ 6" O.C. AND FIELD @ 12" o.c.
 - METAL PLATE WOOD TRUSSES:
 - DESIGNED AND MANUFACTURED IN ACCORDANCE WITH TPI'S DESIGN RECOMMENDATIONS.
 - TRUSS MANUFACTURER SHALL DESIGN MEMBERS FOR LOADING CRITERIA AS INDICATED ON DRAWINGS AND MEMBER PROFILES SHALL CONFORM TO INDICATED GEOMETRY.
 - EACH TRUSS TO BE TAGGED IN ACCORDANCE WITH CBC SECTION 2301.3 IDENTIFYING TRUSS MANUFACTURER, DESIGN LOAD, AND SPACING. THIS INFORMATION SHALL BE LEGIBLE AND PERMANENTLY AFFIXED ON THE BOTTOM CHORD OF THE TRUSS WITHIN THE 2'-0" OF TRUSS CENTERLINE.
 - TRUSS MANUFACTURER SHALL PROVIDE 3 COPIES TRUSS ENGINEERING SEALED BY A CALIFORNIA REGISTERED CIVIL ENGINEER AS FOLLOWS:
 - TRUSS LAYOUTS.
 - CALCULATION AND DETAILS FOR EACH TRUSS SHOWING THAT THE DESIGN (AXIAL AND BENDING STRESSES, TRUSS REACTIONS, AND JOINT DESIGNS) ARE IN CONFORMANCE WITH 2001 CBC AND LOADING CRITERIA NOTED ON DRAWINGS.
 - MANUFACTURER TO OBTAIN ENGINEER OF RECORD'S APPROVAL (IN THE FORM OF SHOP DRAWING APPROVAL STAMP OR SEPARATE APPROVAL LETTER) FOR SUBMITTAL TO BUILDING DEPARTMENT MINIMUM OF 2 WEEKS PRIOR TO TRUSS INSTALLATION.
 - TRUSS MANUFACTURER RESPONSIBLE FOR TEMPORARY AND ERECTION BRACING.
 - INSPECTIONS
 - EARTHWORK - PRIOR TO THE CITY'S FOUNDATION INSPECTION, PROVIDE THE BUILDING DEPARTMENT WITH COPIES OF COMPACTION/STRAIN ANALYSIS REPORTS.
 - CONCRETE - SPECIAL INSPECTION NOT REQUIRED EXCEPT 2" OF CBC 1701.6.1 APPLIES.
 - WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH CBC 1701.5.5.1. WELDING IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH CBC 1701.6.2 MAY NOT REQUIRE SPECIAL INSPECTION. PERIODIC INSPECTIONS SHALL BE IN ACCORDANCE WITH CBC 1701.6.2.
 - DEFERRED SUBMITTALS - THE FOLLOWING ARE DEFERRED SUBMITTALS. TWO COPIES OF THE FOLLOWING DEFERRED SUBMITTALS BEARING ENGINEER OF RECORD'S REVIEW (IN THE FORM OF AN AFFIXED SHOP DRAWING STAMP OR SEPARATE LETTER) MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR THEIR AND APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO FRAME INSPECTION IN ACCORDANCE WITH CBC SECTION 106.3.2.2.
 - METAL PLATED WOOD TRUSSES.

5 GENERAL NOTES

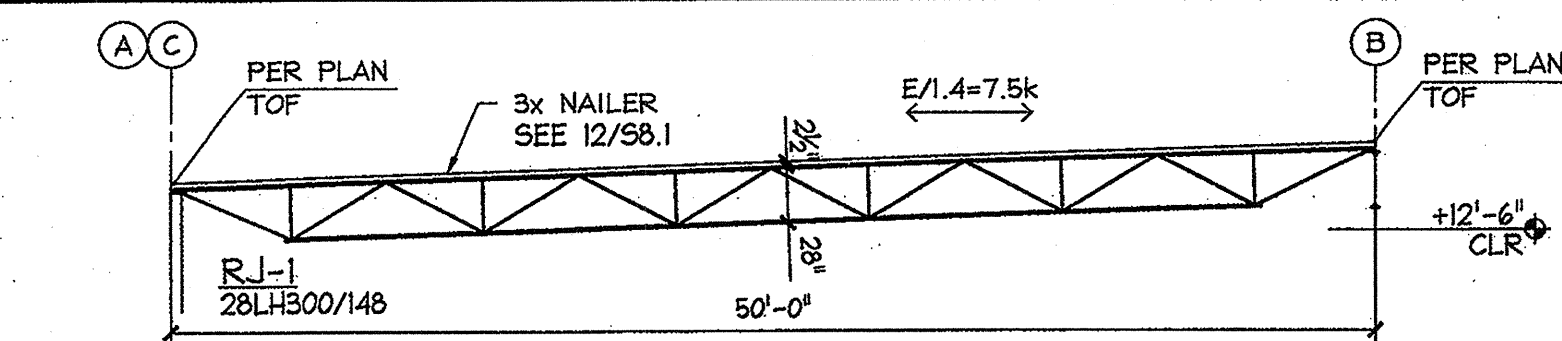
in lawder, inc.
structural engineers
717 18th Street, Ste. 4
Modesto, CA 95354
(209) 561-1143
(209) 521-1581

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWDER
Exp. 5-31-09
STRUCTURAL
STATE OF CALIFORNIA

Bama Construction Company, Inc.
1555 Cummins Drive • P.O. Box 4710 • Modesto, CA 95352
(209) 523-2574 • FAX: (209) 523-0213

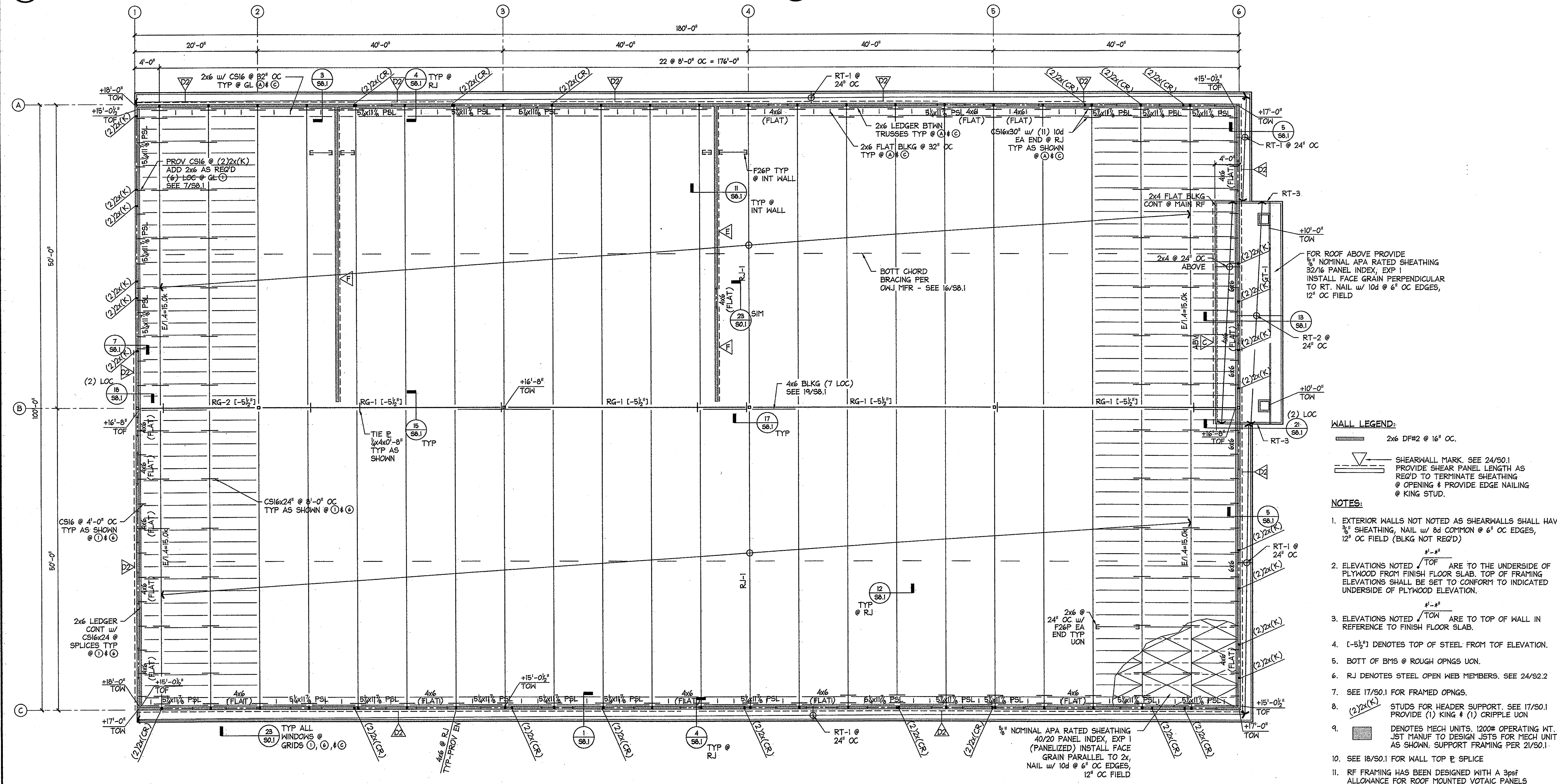
ISSUED 02/11/06
GENERAL NOTES & TYPICAL DETAILS
SJVAPCD OFFICE BUILDING
BAKERSFIELD, CA

REVISIONS BY
REVISED
DATE: 10/31/07
FILE: 07-055
DR. BY: pl
SHEET: 50.1
OF SHEETS



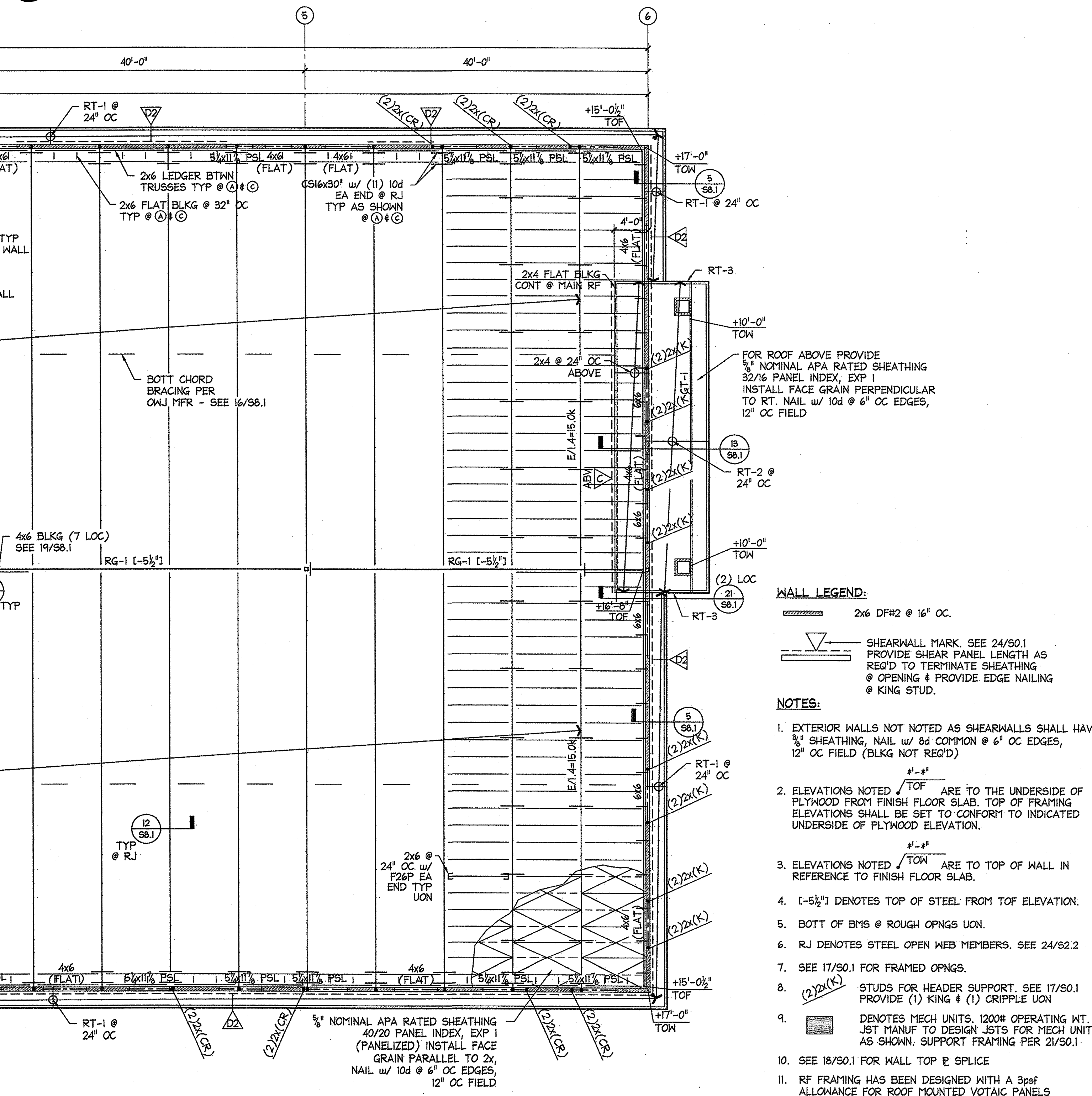
- NOTES:**
- DESIGN LOAD COMBINATION - IN ACCORDANCE w/ CBC SECTION 1612.3
 - ROOF DESIGN LOADS: DL=19psf, LL=20psf, WIND UPLIFT NET = 0.0psf
DL INCLUDES 2.0psf ALLOWANCE FOR ONJ. ADJUST AS REQ IF ONJ DL IS GREATER THAN 2.0psf.
 - DEFLECTION CRITERIA: LL - SPAN/240, DL + LL - SPAN/180
 - DL INCLUDES AN ALLOWANCE FOR SPRINKLERS 3 1/2" AND LESS. VERIFY w/ SPRINKLER SUBCONTRACTOR FOR LOADS & LOCATIONS SHOULD SPRINKLERS GREATER THAN 3 1/2" BE REQUIRED.
 - DESIGN FOR 1500# POINT ADD APPLIED AT ANY TOP CHORD PANEL PT ALONG TRUSS FOR FUTURE LOADING.
 - STANDARD SJ DESIGNATIONS SHOWN INDICATES THE EQUIVALENT LOADING FOR THE LOADING DIAGRAMS SHOWN. MANUFACTURER'S DESIGN MAY BE BASED ON THE EQUIVALENT LOADING OR LOADING DIAGRAMS. OTHER DEPTHS MAY BE USED PROVIDED THAT MINIMUM CLEARANCE TO THE BOTTOM CHORDS MET. FOR JOISTS w/ "SP" SUFFIX, JOIST SUPPLIER TO DESIGN JOISTS TO SUPPORT LOADS AS SHOWN ABOVE.
 - WEB CONFIGURATION PER MANUFACTURER. WEB CONFIGURATIONS FOR ADJACENT JOISTS TO BE CONSISTENT (AS ECONOMICALLY AS POSSIBLE) TO ALLOW FOR MECHANICAL, PLUMBING, AND ELECTRICAL RUNS.
 - E/1.4=10.0k DENOTES TOP CHORD AXIAL LATERAL DESIGN LOADS. DESIGN FOR E/1.4 INDICATED UON PER PLAN.

24 TRUSS DESIGN CRITERIA



21 ROOF FRAMING PLAN

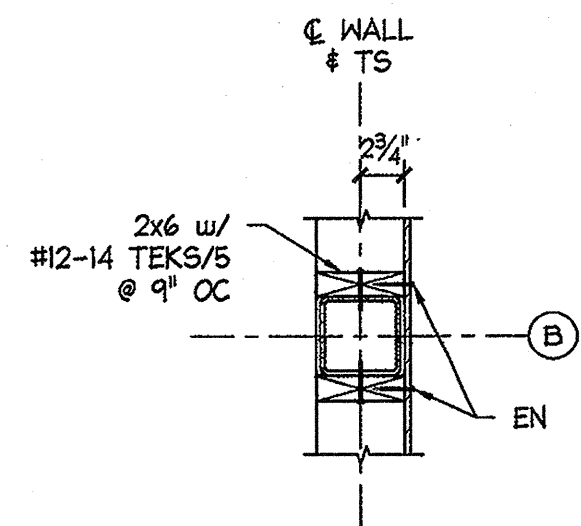
12 TRUSS PROFILES



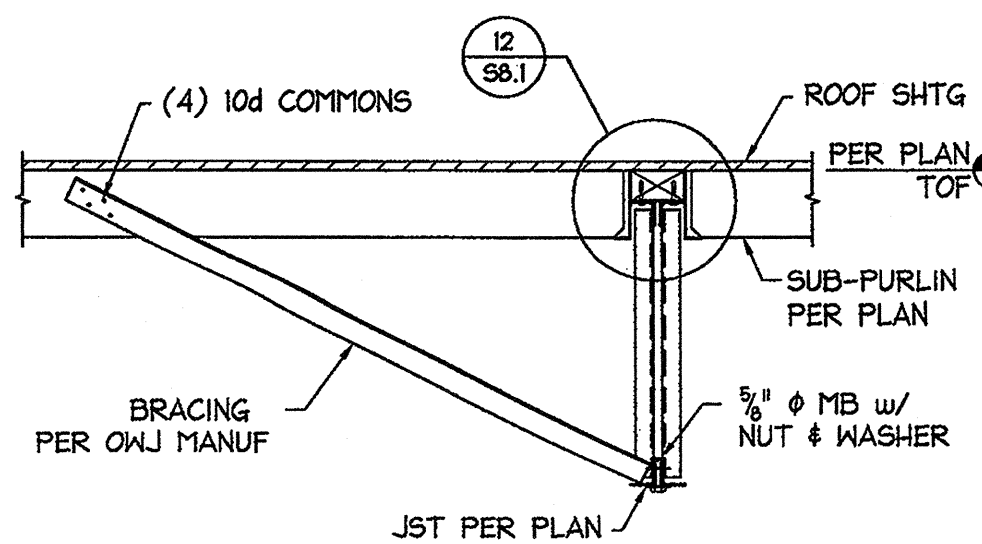
- NOTES:**
- ALL TRUSSES @ 24" OC MAX, UON
 - LOADING (UNLESS OTHERWISE NOTED):
TOP CHORD DL = 6psf
LL = 20psf
BOTTOM CHORD DL = 12psf
LL = 10psf
WIND = UBC 75 MPH, EXP C, C_e = 1.06
A. DEFLECTION CRITERIA: LL - SPAN/240, DL + LL - SPAN/180
B. DL INCLUDES AN ALLOWANCE FOR SPRINKLERS 3 1/2" AND LESS. VERIFY w/ SPRINKLER SUB CONTRACTOR FOR LOADS & LOCATIONS SHOULD SPRINKLERS BE GREATER THAN 3 1/2".
 - BOTT CHORD LL NOT TO BE CONCURRENT w/ TOP CHORD LL
 - TRUSS CHORDS, WEB SIZE AND CONFIGURATION BY TRUSS MFR.
 - TRUSS TO HAVE BEARING SUPPORTS AS INDICATED.

2/11/2008 3:42:05 PM JAI LAWDER, INC. STRUCTURAL ENGINEERS

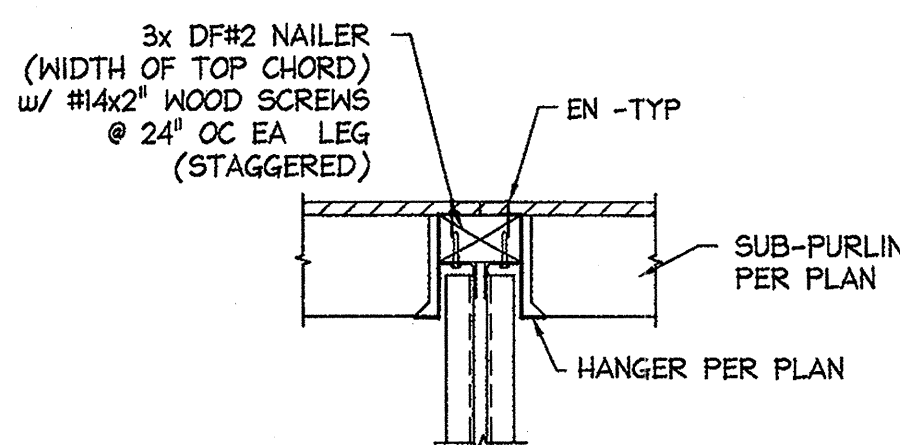
20 DETAIL
1" = 1'-0"



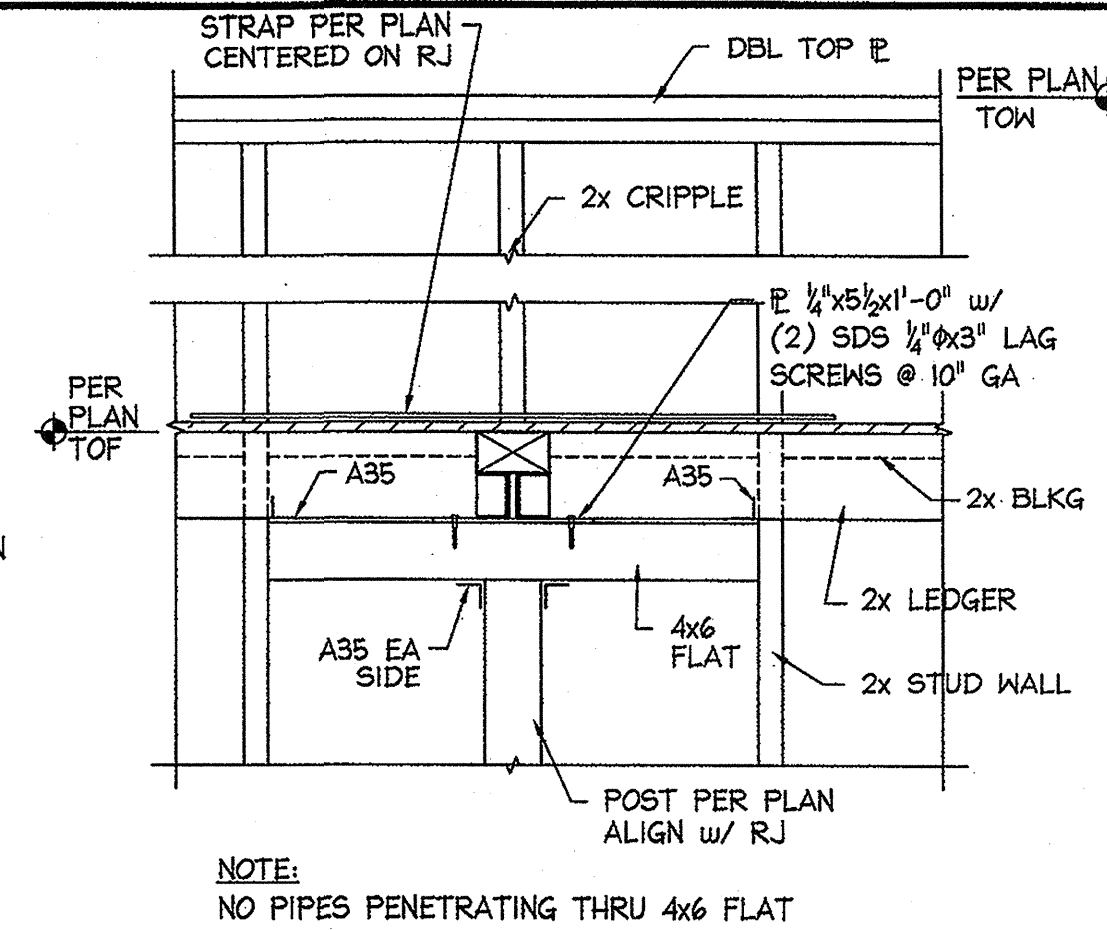
16 JOIST BRACE DETAIL
3/4" = 1'-0"



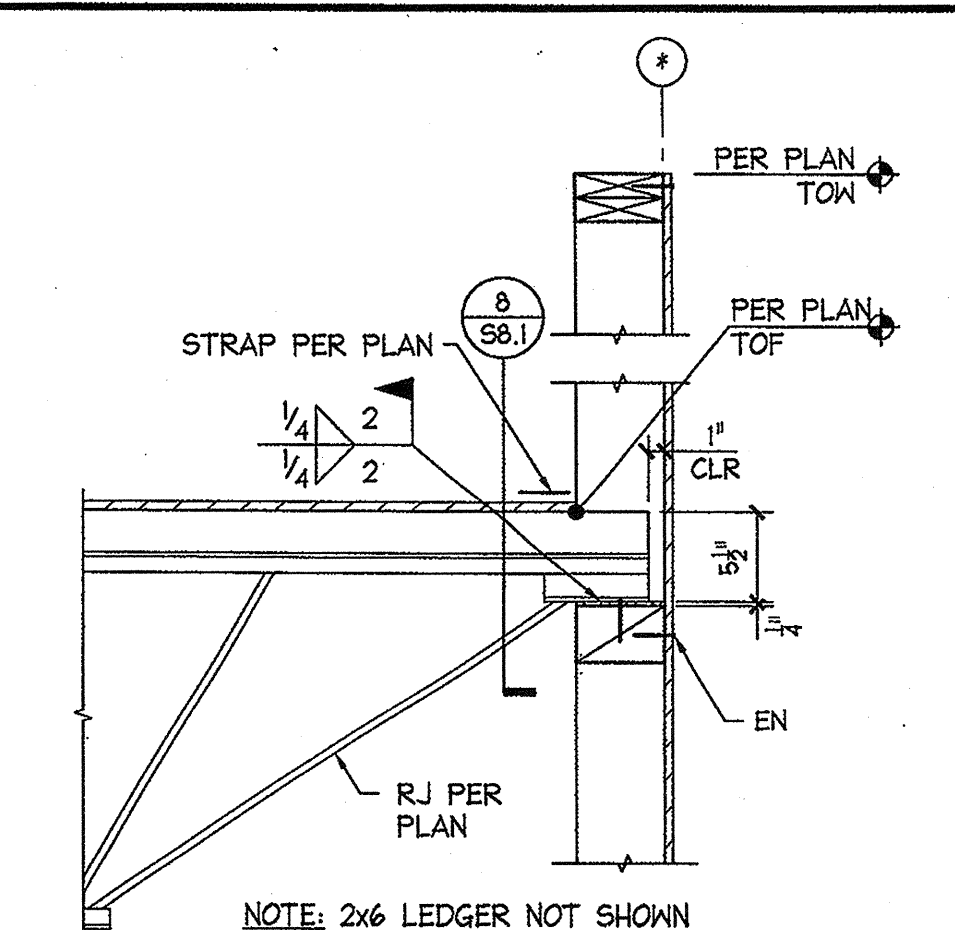
12 NAILER ATTACHMENT
@ ROOF JOIST
3/4" = 1'-0"



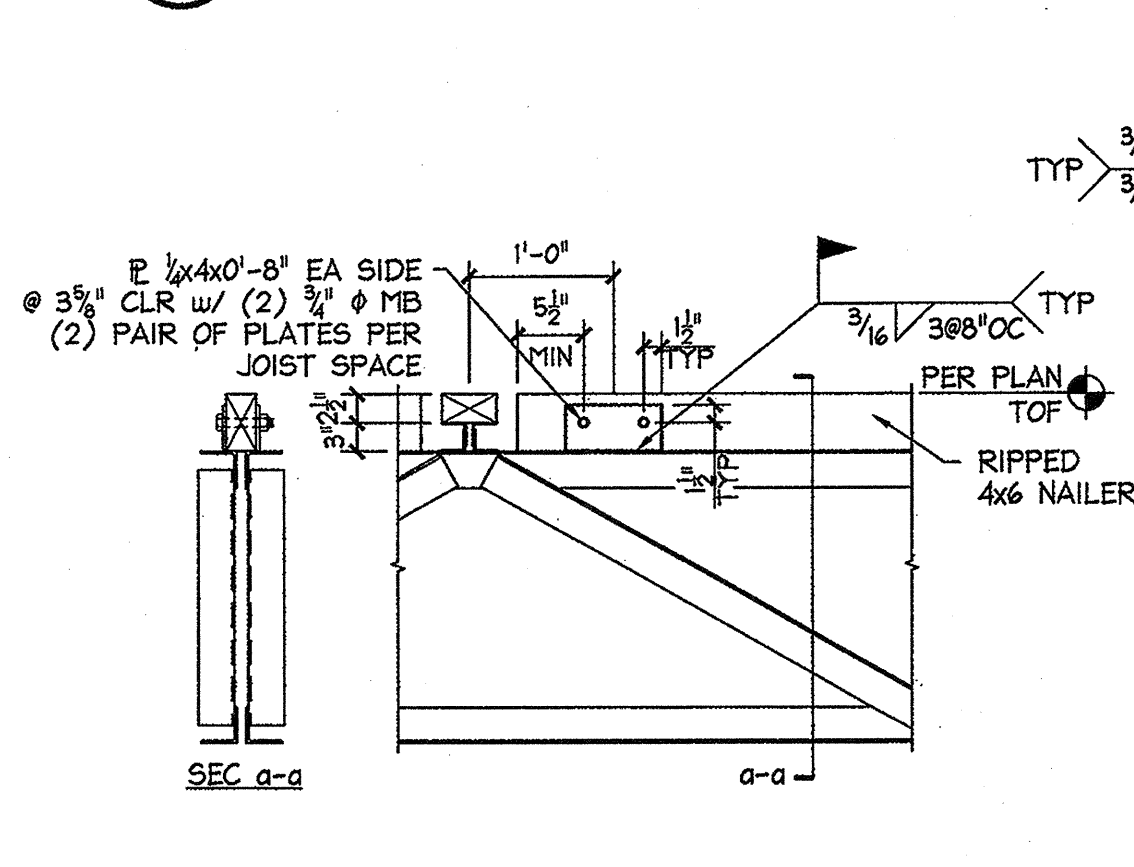
8 DETAIL
1" = 1'-0"



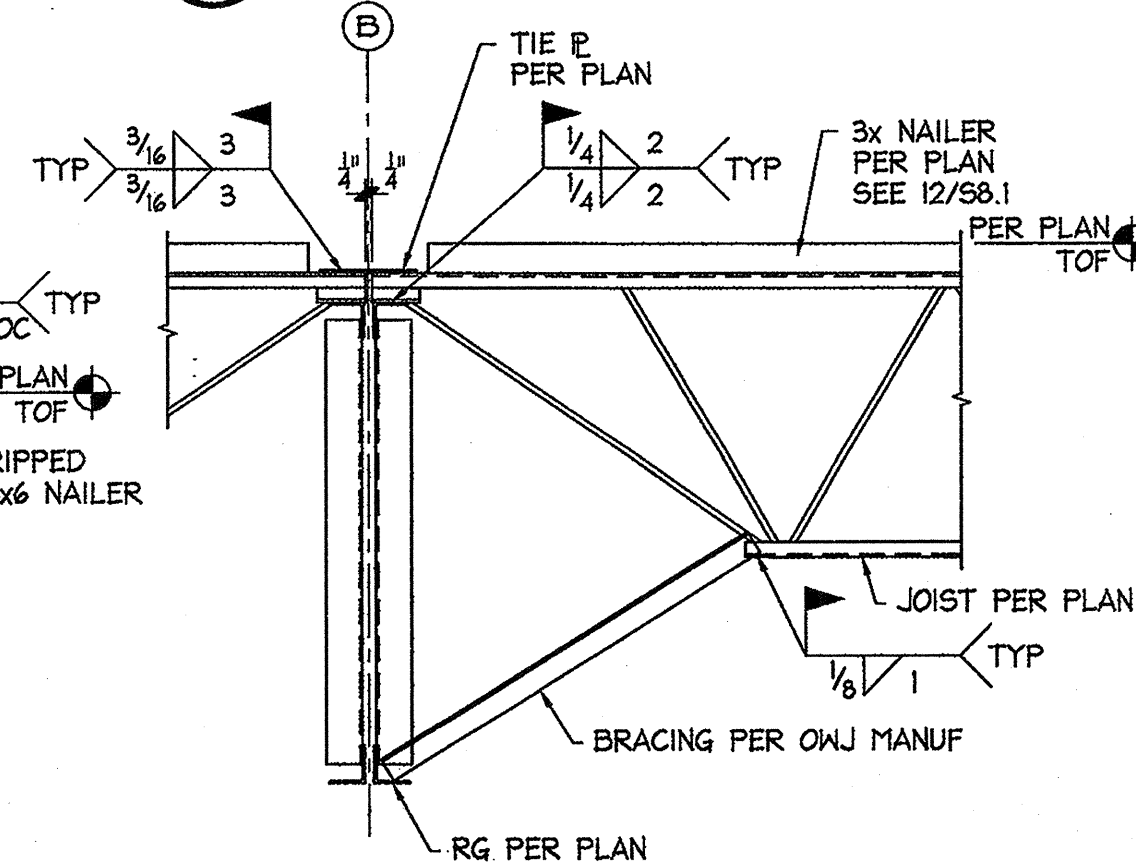
4 JOIST @ WALL
1" = 1'-0"



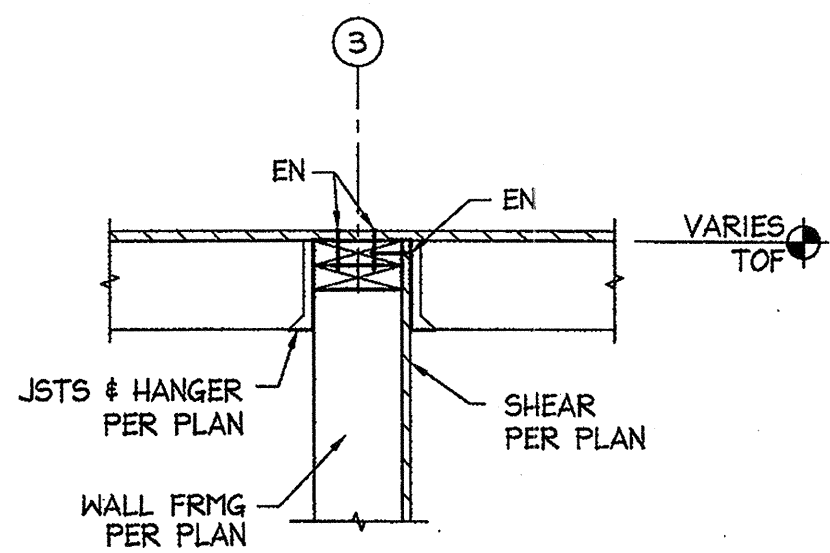
19 NAILER ATTACHMENT
@ TRUSS GIRDER
3/4" = 1'-0"



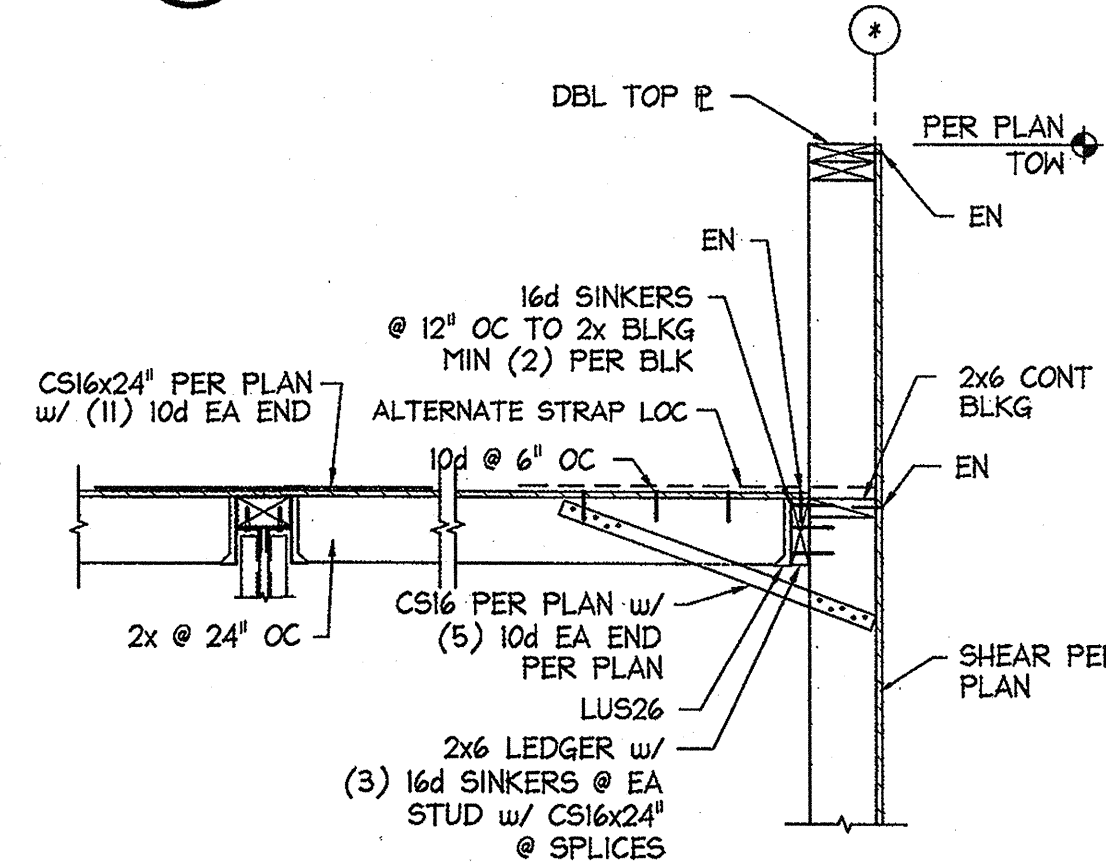
15 JOIST TO GIRDER
3/4" = 1'-0"



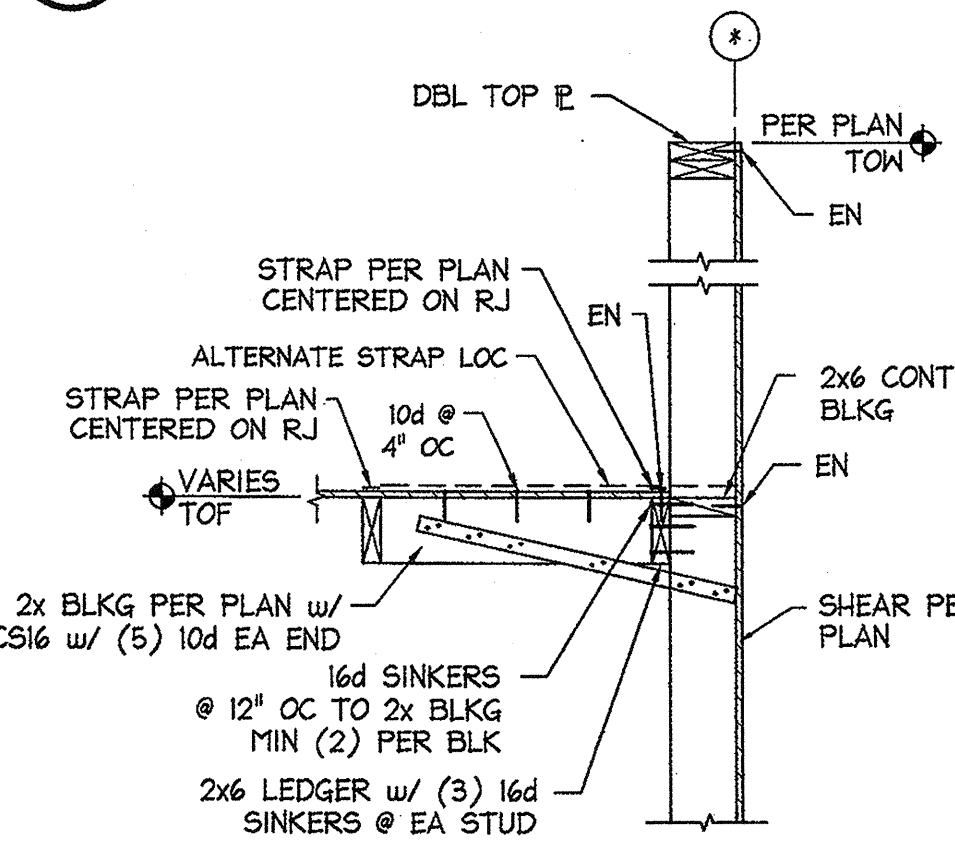
11 DETAIL
1" = 1'-0"



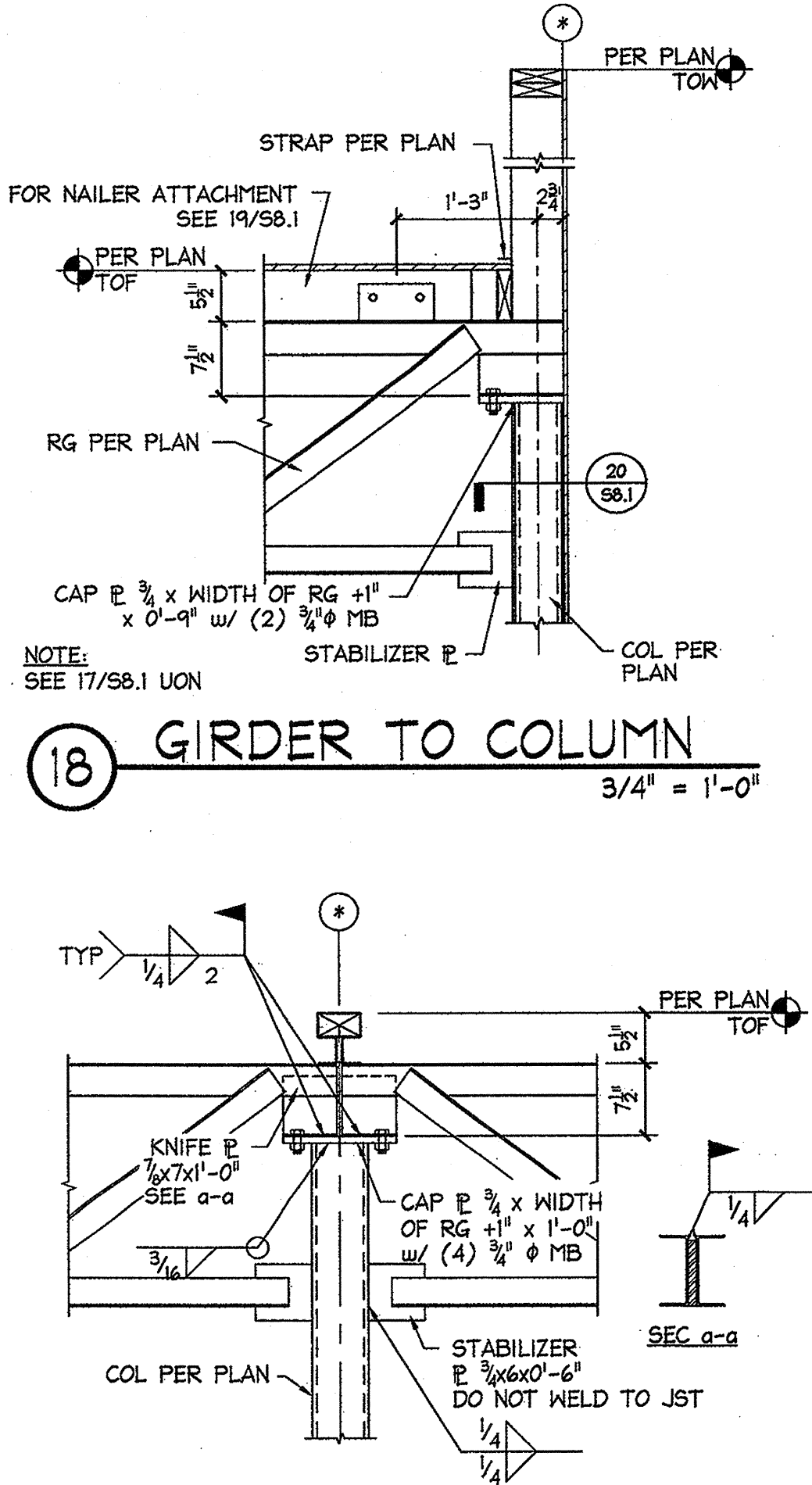
7 WALL SECTION
3/4" = 1'-0"



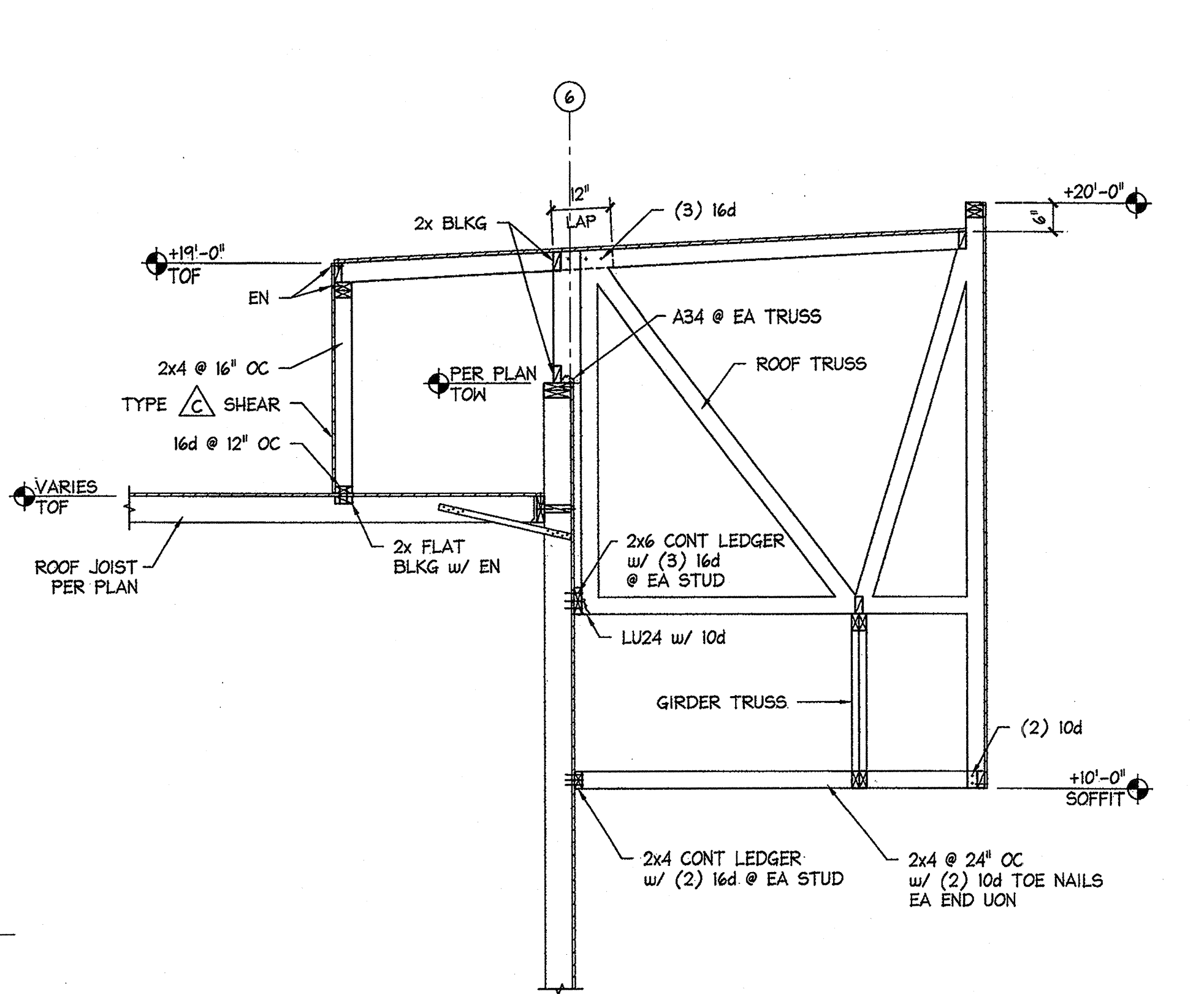
3 WALL SECTION
3/4" = 1'-0"



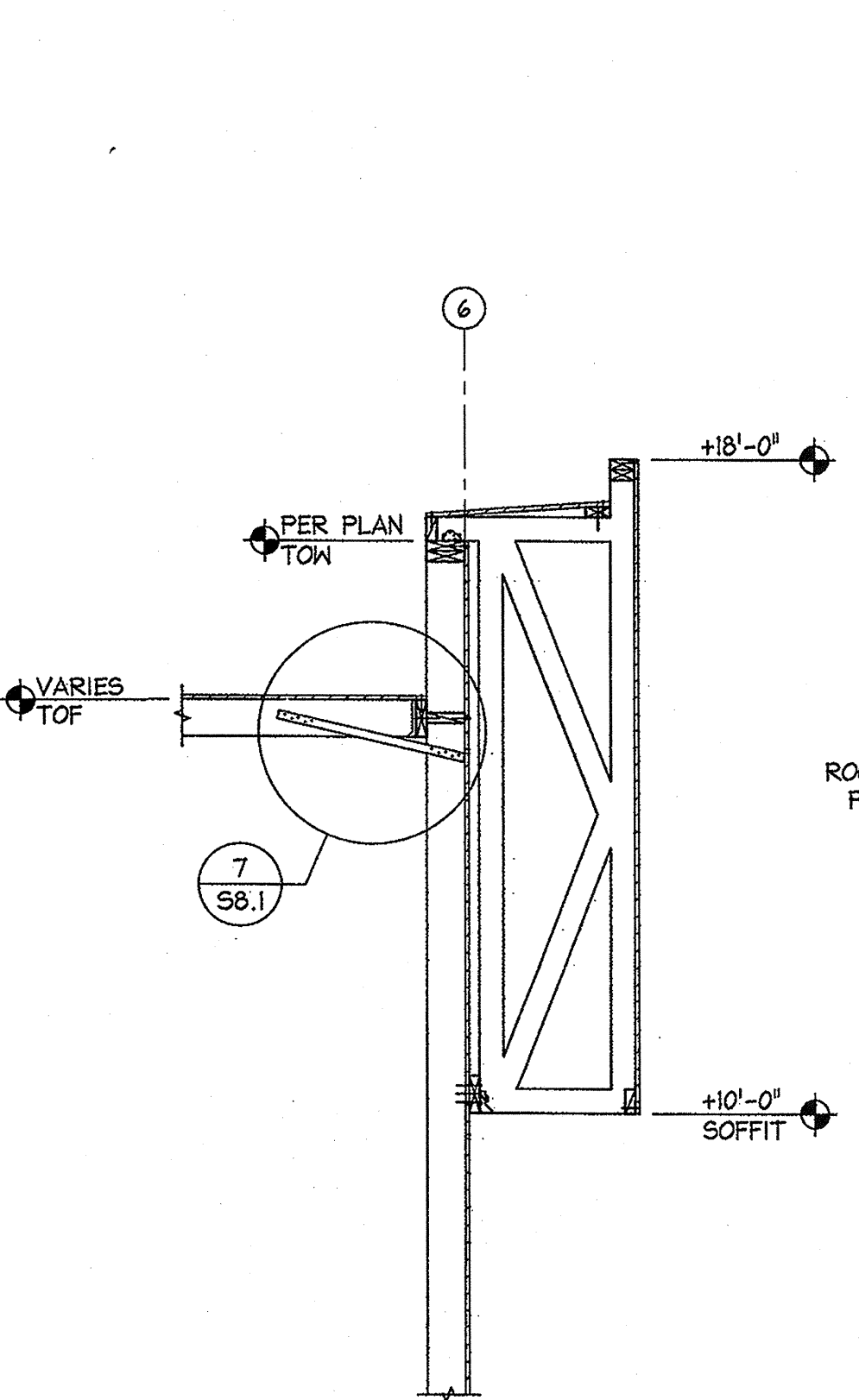
18 GIRDER TO COLUMN
3/4" = 1'-0"



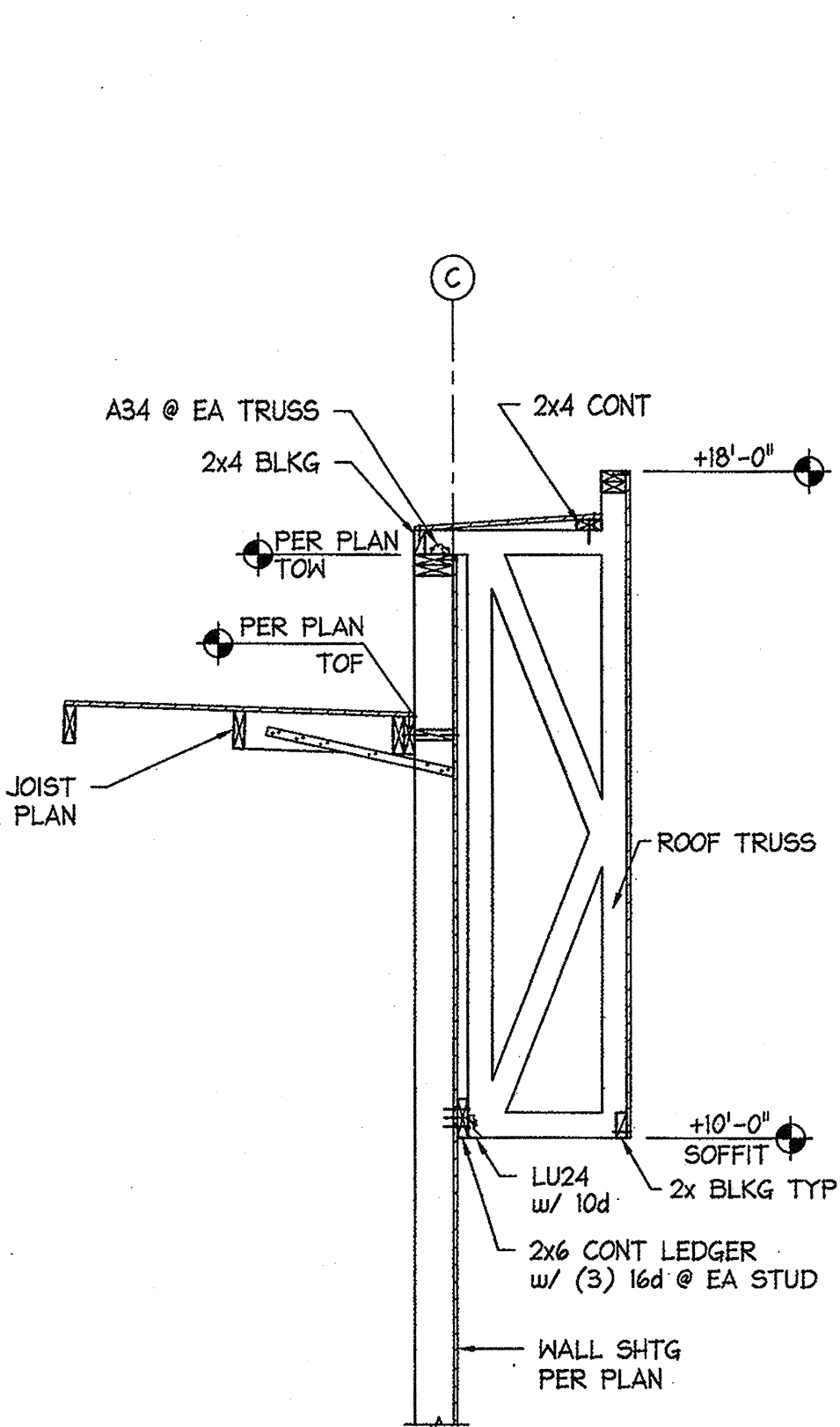
13 FRAMING DETAIL
1/2" = 1'-0"



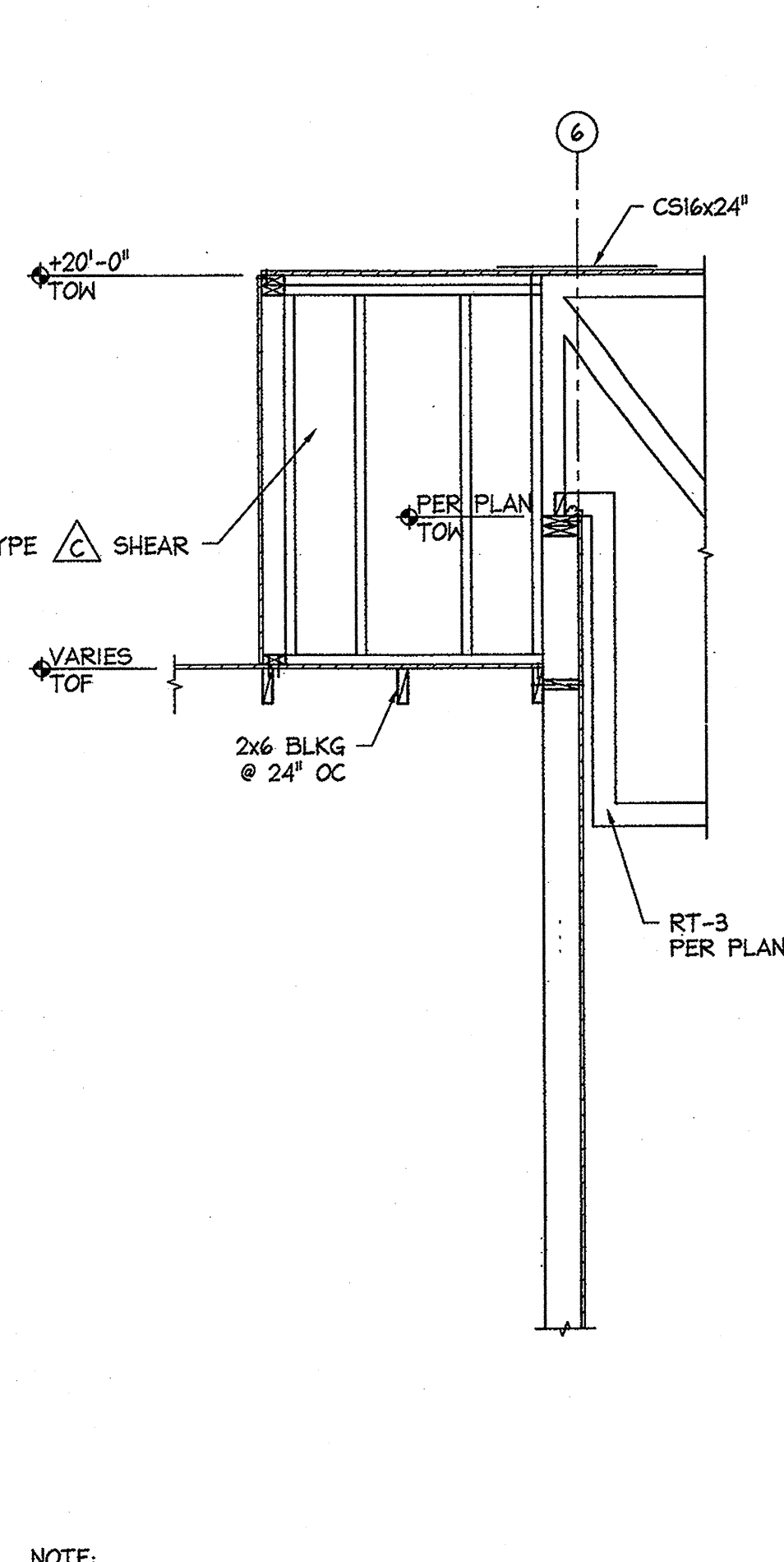
5 FRAMING DETAIL
1/2" = 1'-0"



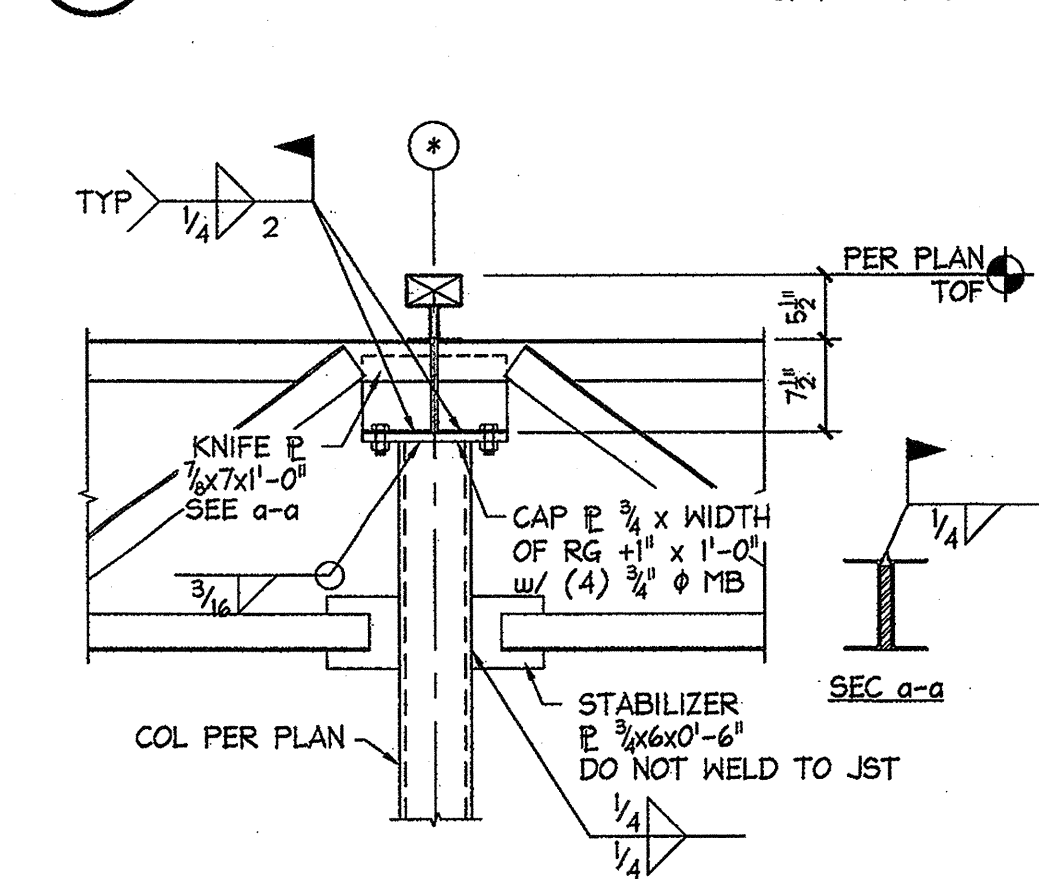
1 FRAMING DETAIL
1/2" = 1'-0"



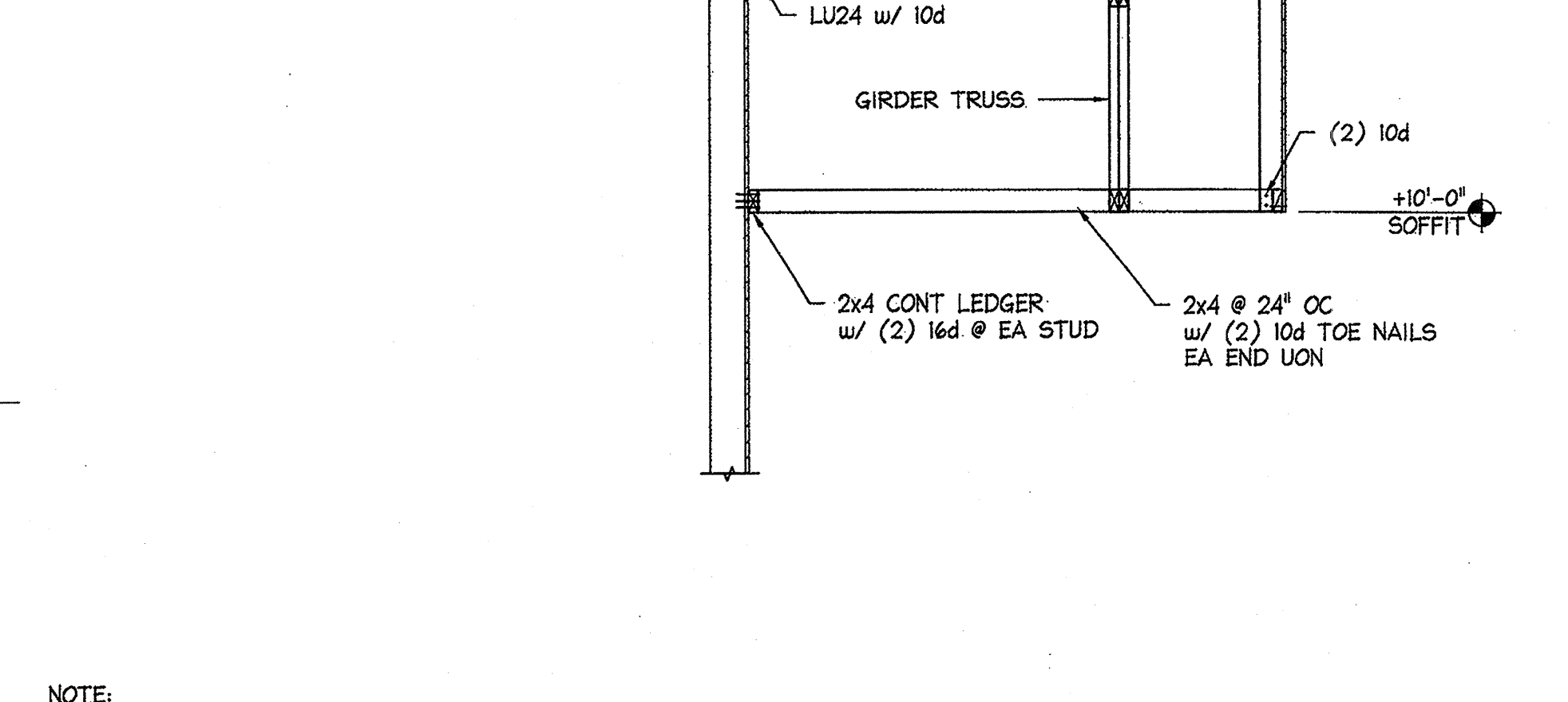
21 FRAMING DETAIL
1/2" = 1'-0"



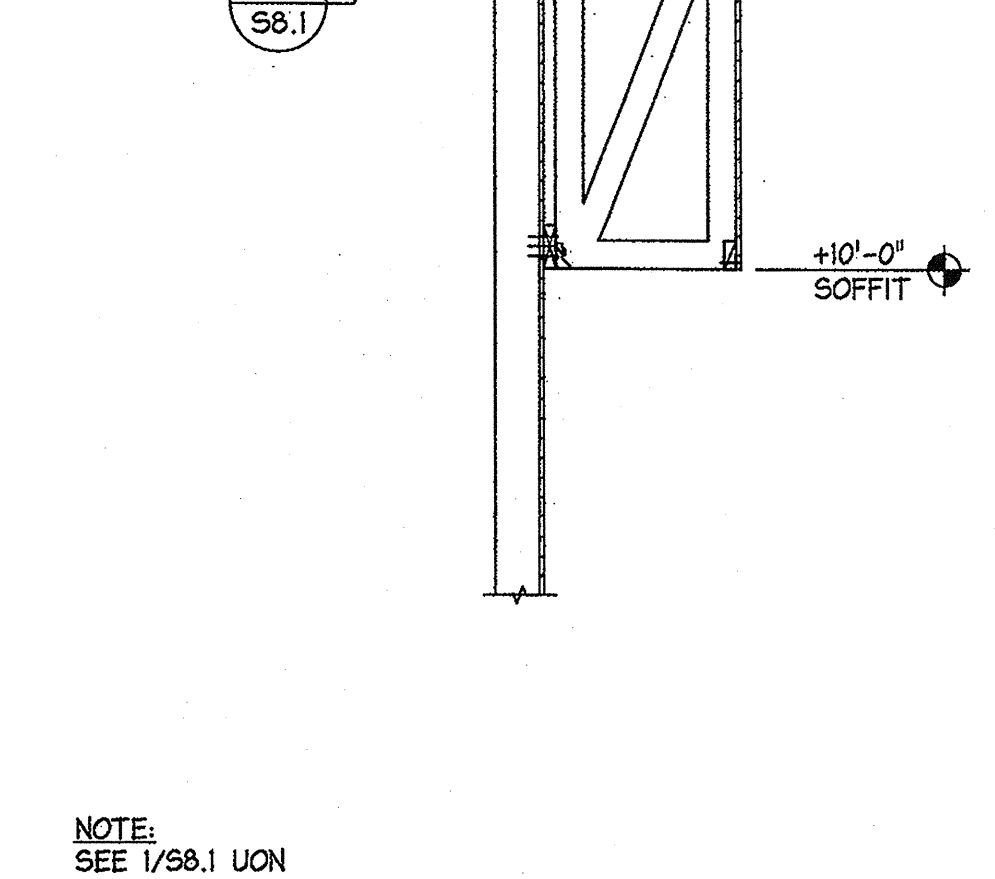
17 GIRDER TO COLUMN
3/4" = 1'-0"



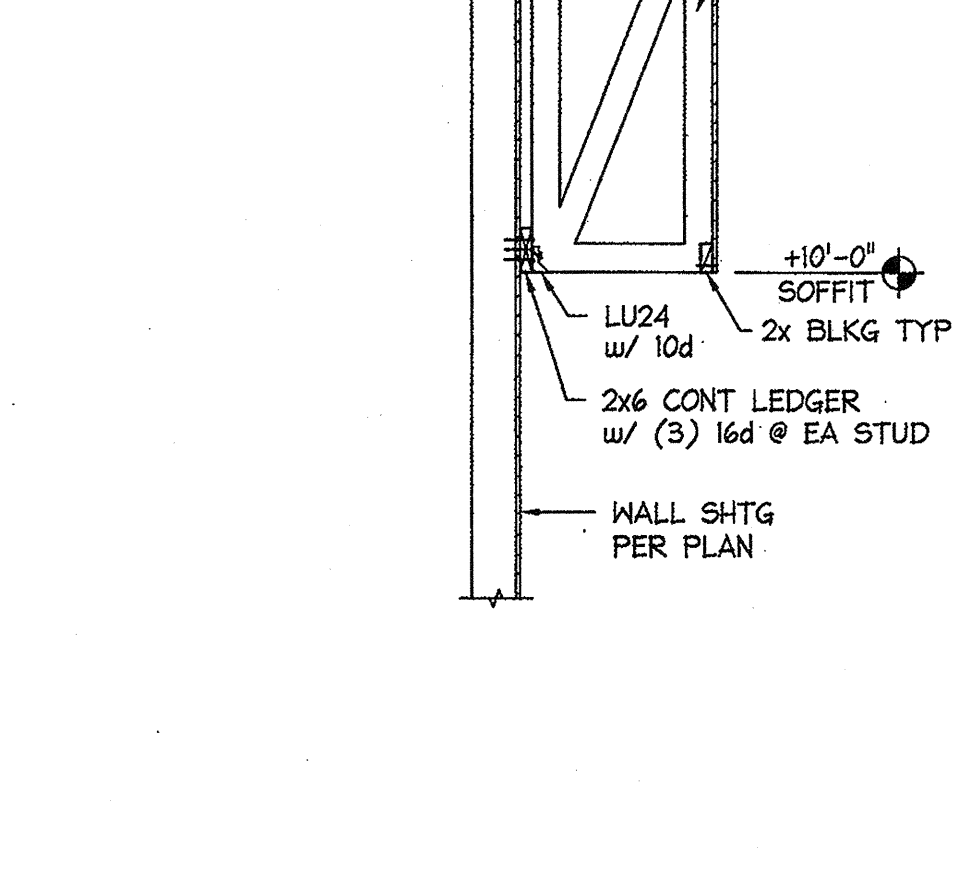
13 FRAMING DETAIL
1/2" = 1'-0"

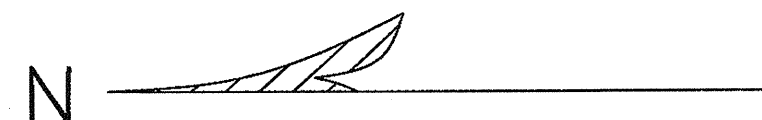
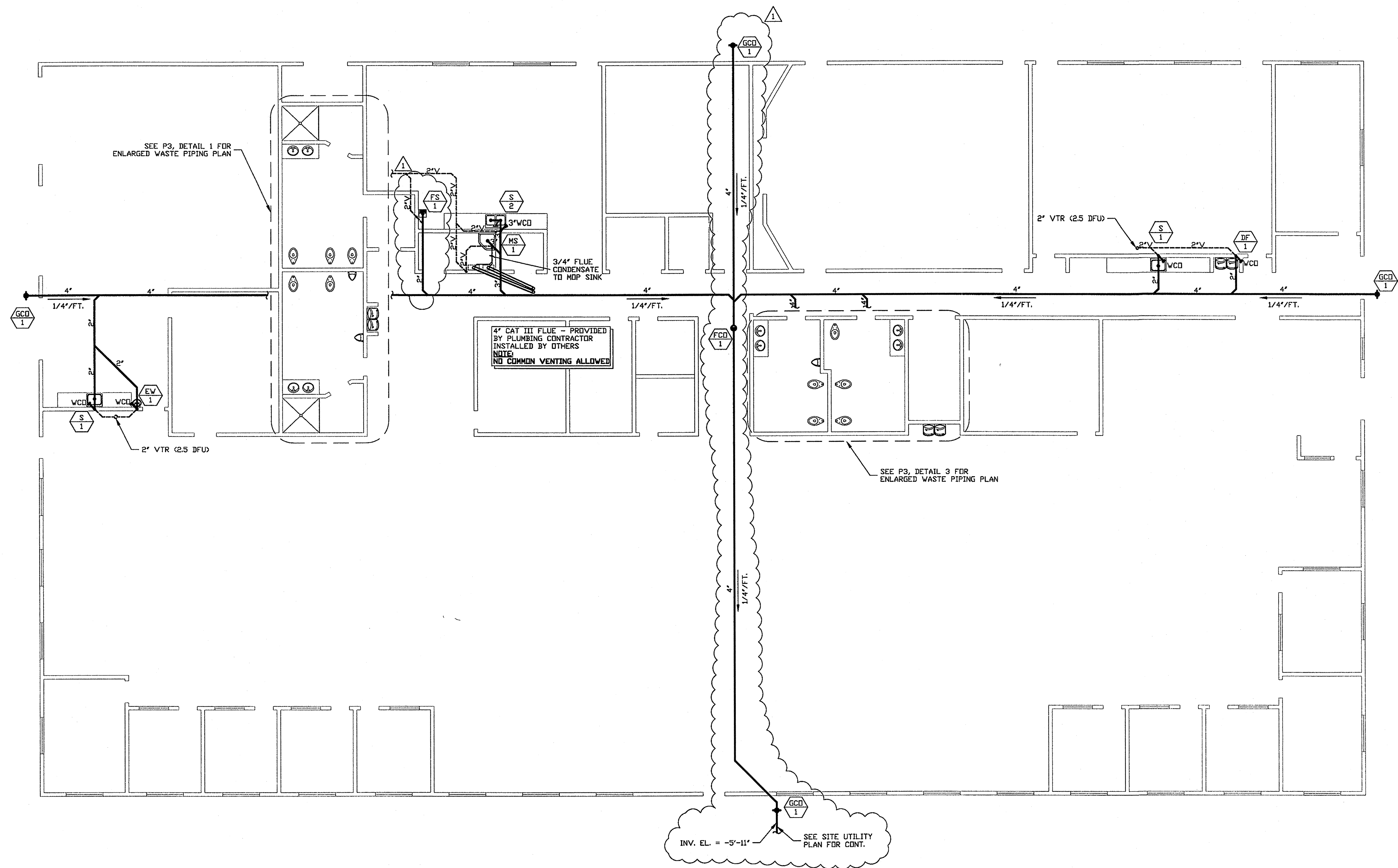


5 FRAMING DETAIL
1/2" = 1'-0"



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





SCALE
1/8"=1'-0"

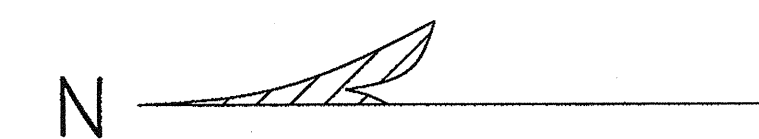
WASTE PIPING PLAN

REVISIONS	DATE
△ PER CITY PLAN CHECK COMMENTS	1/29/08
△	
△	

DEHART
Plumbing, Heating & Air, Inc.
SINCE 1946
311 BITTRITTO WAY • MODESTO, CA 95356
PH (209) 523-4578 • FAX (209) 523-4587
LICENSE #724566

PROJECT TITLE NEW OFFICE FOR: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT BAKERSFIELD, CA	PAGE TITLE WASTE PIPING PLAN
	DATE: 3/28/08
SCALE: SHOWN	DRAWN BY: R.KERR
	DESIGNED BY: E. FLECK
	SHEET NO. PI

ALL DESIGNS AND OTHER INFORMATION ON THESE DRAWINGS ARE FOR THE USE ON THE SPECIFIED PROJECT FOR DEHART PLUMBING, HEATING & AIR, AND SHALL NOT BE USED OTHERWISE WITHOUT EXPRESS WRITTEN PERMISSION OF DEHART PLUMBING, HEATING & AIR.



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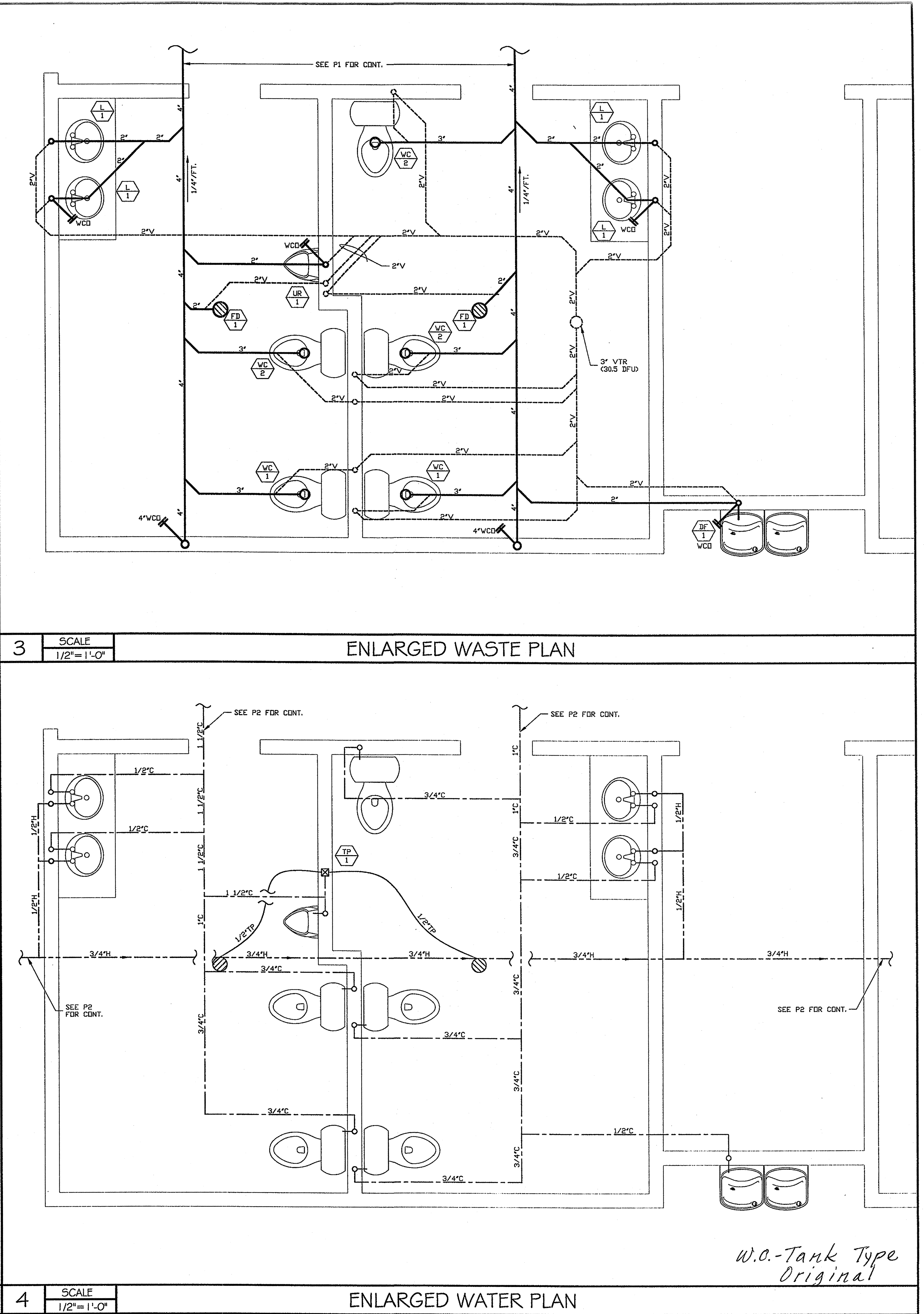
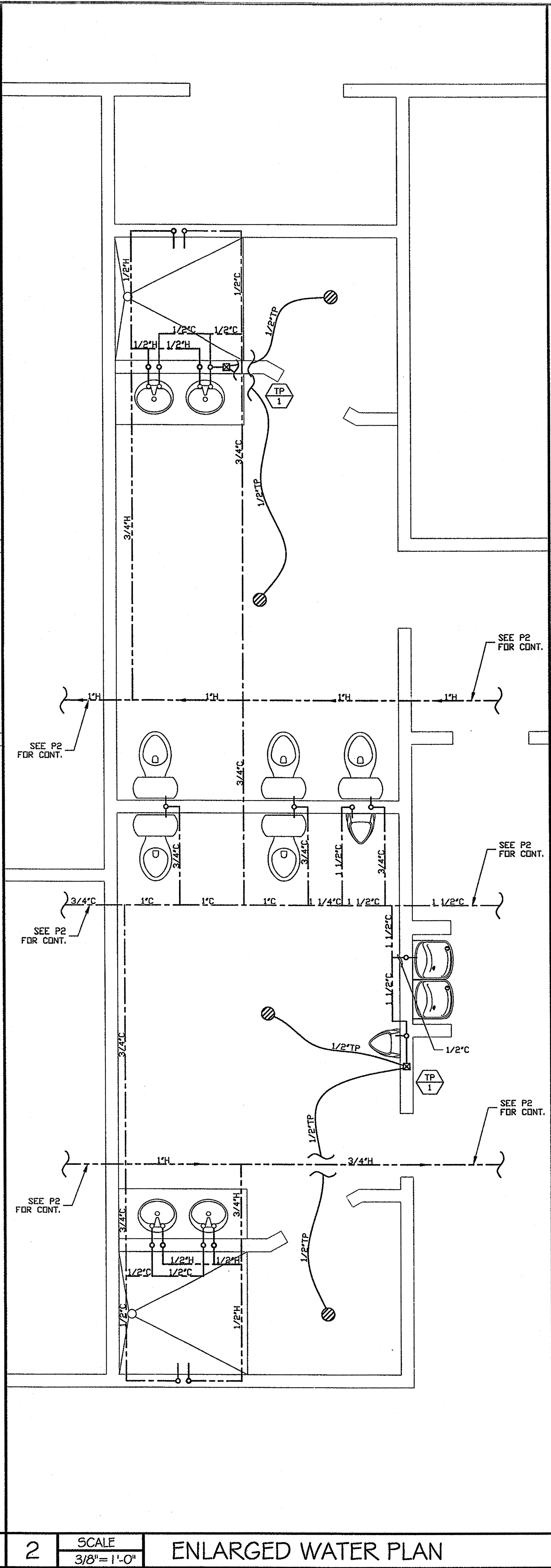
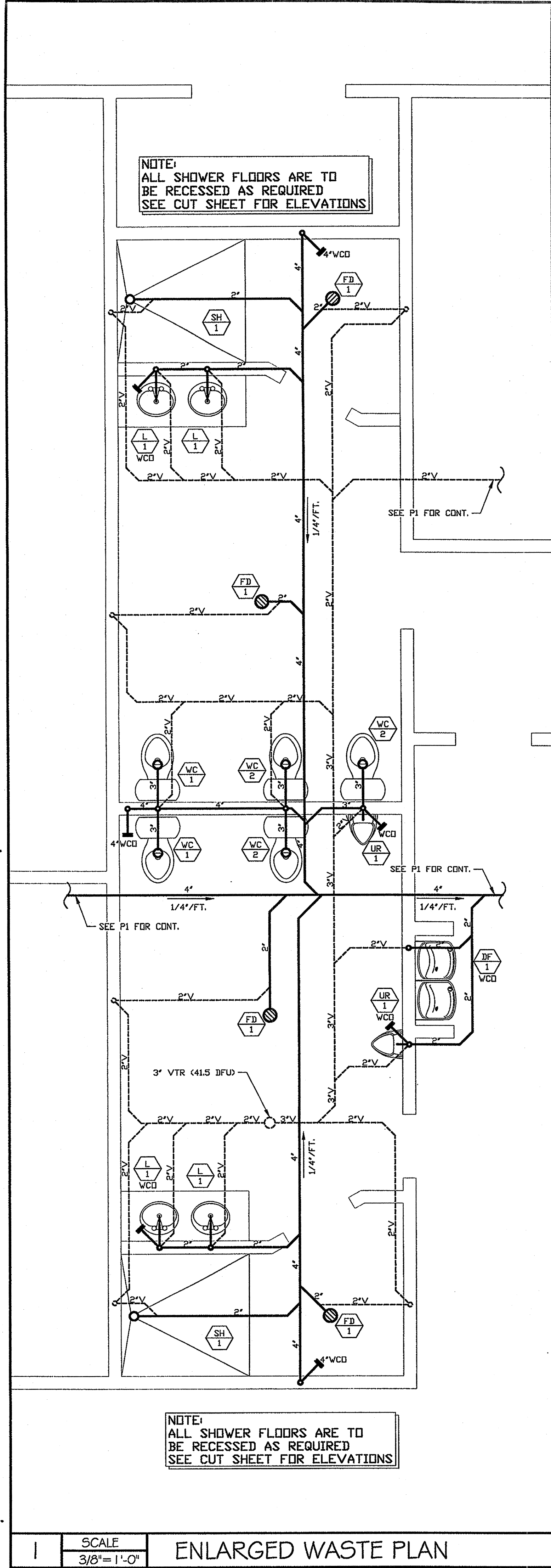
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OF DEHART PLUMBING, HEATING & AIR.

DATE:	3/28/08
DRAWN BY:	R.KERR
DESIGNED BY:	E. FLECK
SCALE:	SHOWN
SHEET NO.	
P2	

P2

ENLARGED WATER PIPING PLAN



1 SCALE 3/8"=1'-0" ENLARGED WASTE PLAN

2 SCALE 3/8"=1'-0" ENLARGED WATER PLAN

4 SCALE 1/2"=1'-0" ENLARGED WATER PLAN

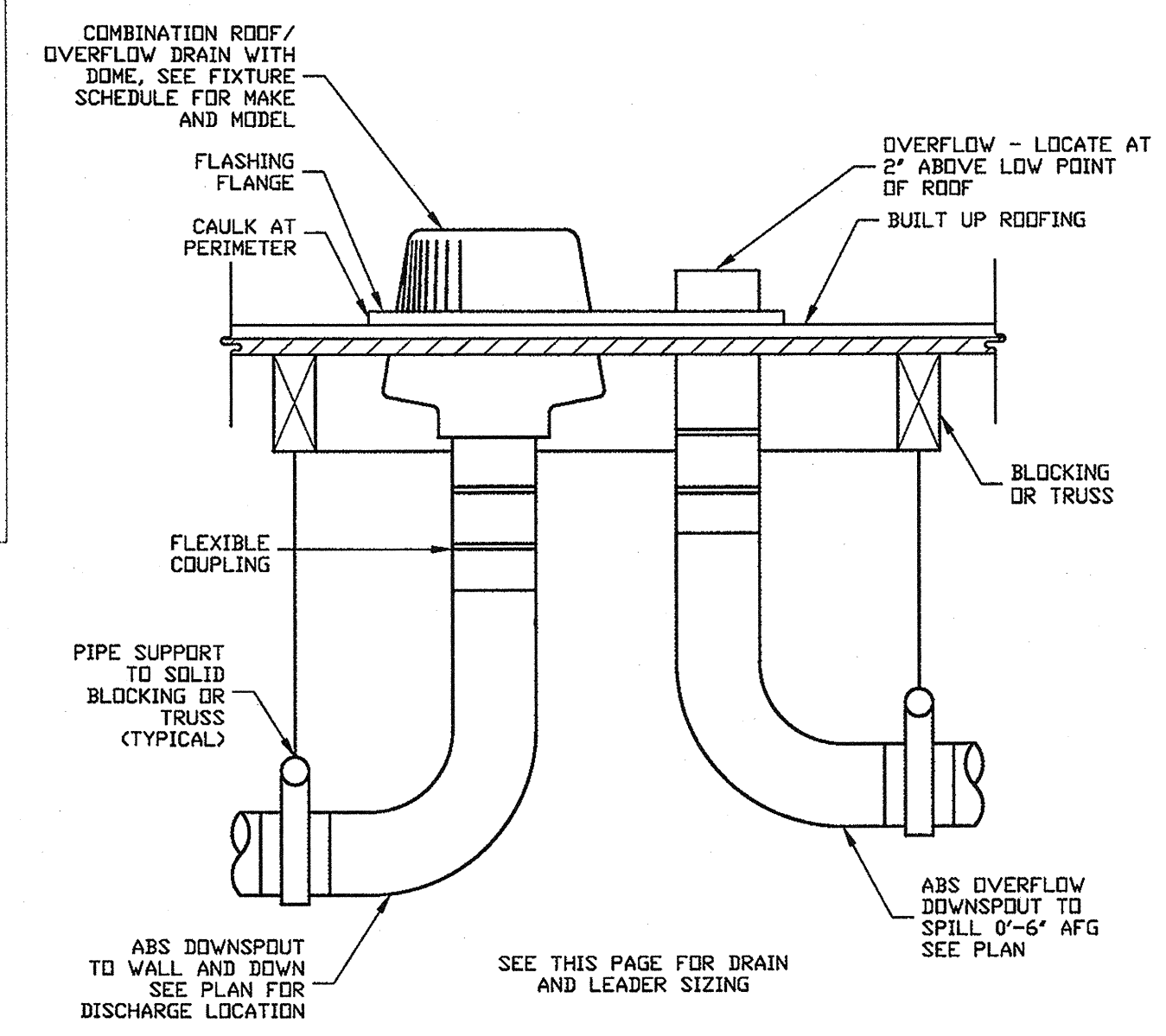
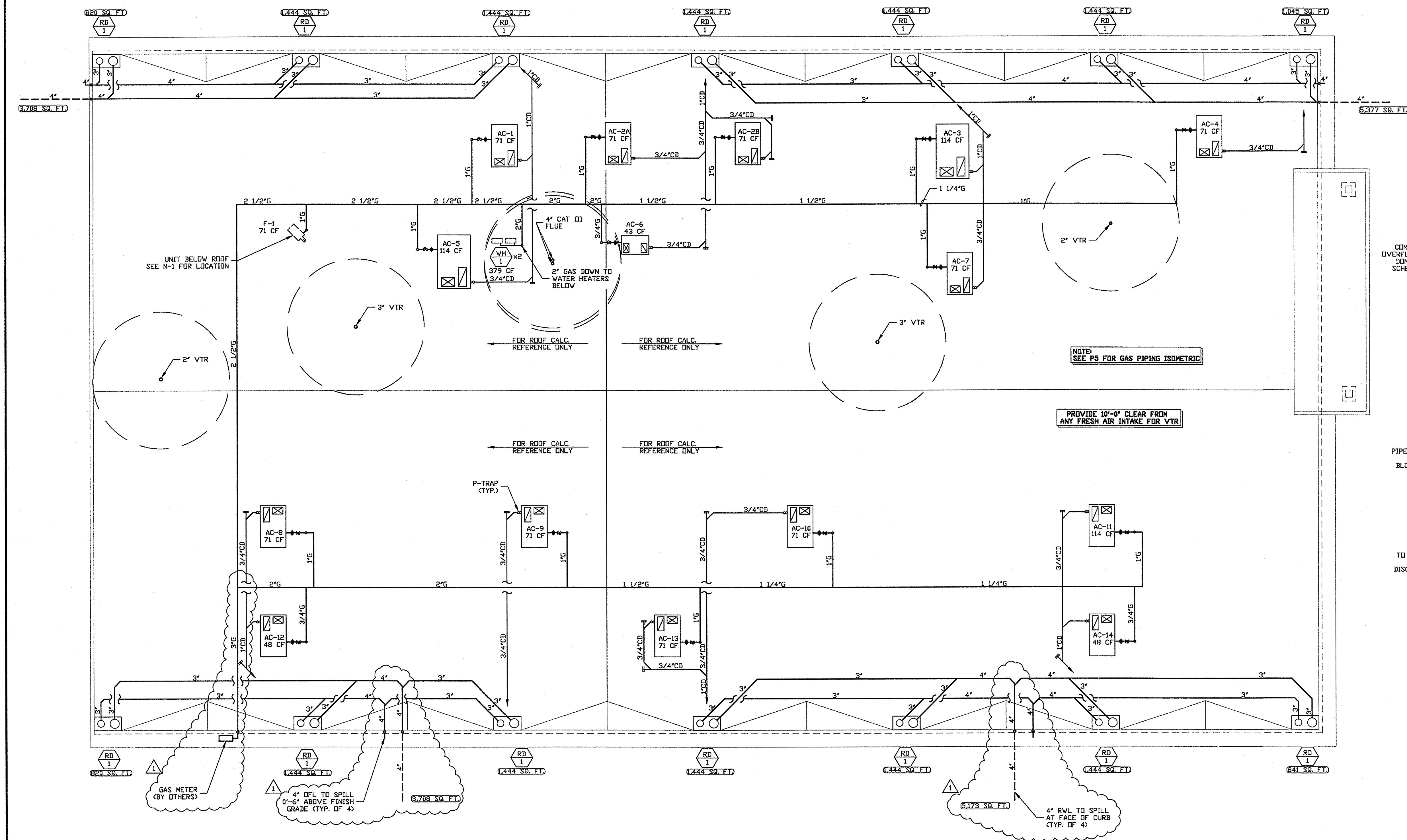
REVISIONS		DATE

DEHART
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PH (209) 523-4578 * FAX (209) 523-4587
LICENSE #724566

PROJECT TITLE	PAGE TITLE
NEW OFFICE FOR: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT BAKERSFIELD, CA	ENLARGED PLUMBING PLAN

DATE:	11/27/07
DRAWN BY:	R.KERR
DESIGNED BY:	E. FLECK
SCALE:	SHOWN
SHEET NO.	P3



ROOF DRAIN SIZING	
TOTAL ROOF AREA	17,966 SQ. FT.
ROOF AREA @ EACH DRAIN	MARKED @ EACH DRAIN
ROOF DRAIN SIZE	3" (TYP.)
DOWNSPOUT/OVERFLOW SIZE	3" (TYP.)
CALCULATED RAINFALL	2" PER HOUR

* CALCULATION DOES INCLUDE GUTTER SIZING FROM HIP ROOF (BY OTHERS)

REVISIONS

DATE

△ PER CITY PLAN CHECK COMMENTS

1/29/08

△

△

DEHART
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PROJECT TITLE

NEW OFFICE FOR:
SAN JOAQUIN VALLEY AIR
POLLUTION CONTROL DISTRICT
BAKERSFIELD, CA

PAGE TITLE

ROOF PLAN

DATE:

3/28/08

DRAWN BY:

R.KERR

DESIGNED BY:

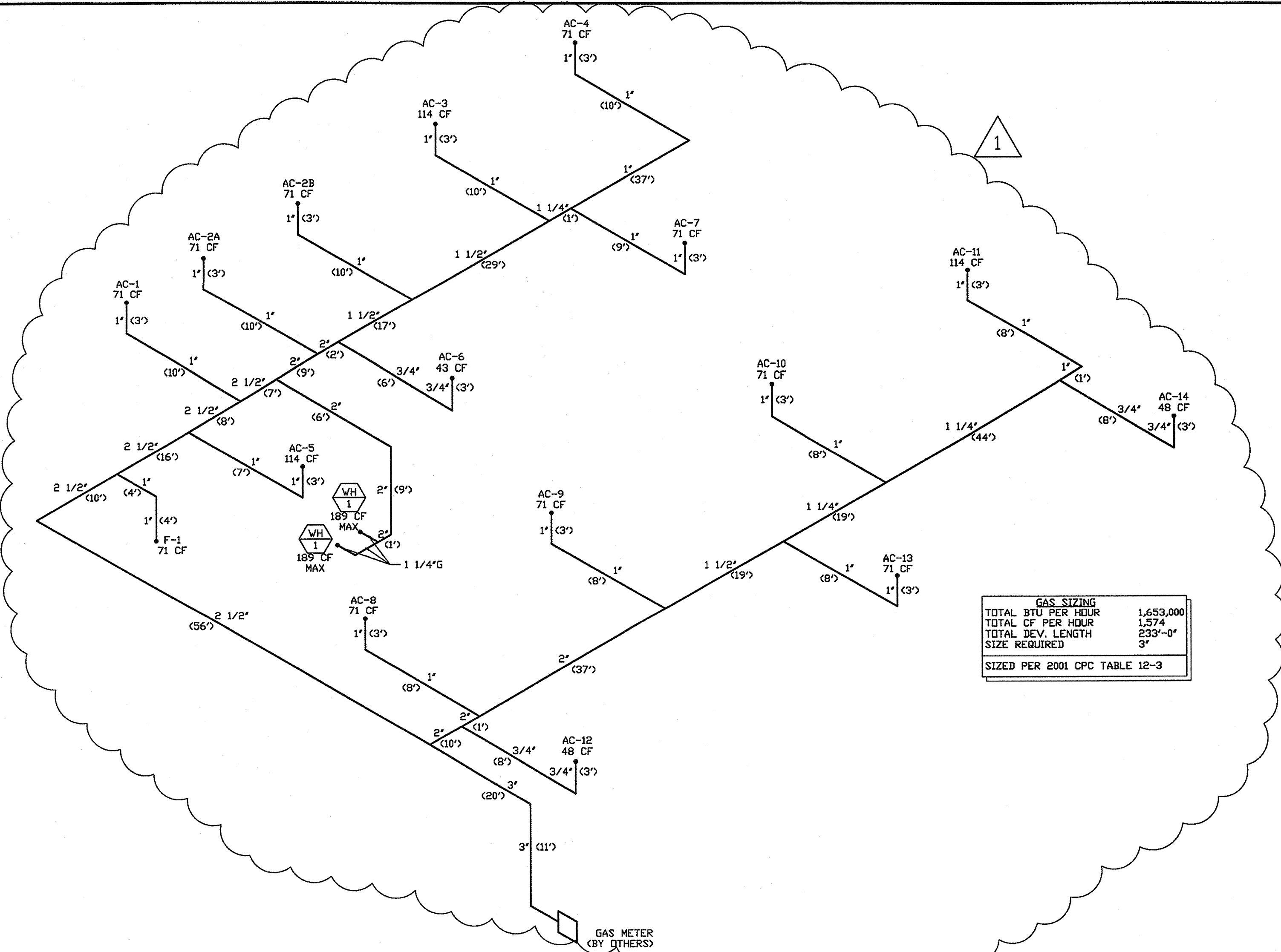
E. FLECK

SCALE:

SHOWN

SHEET NO.

P4



GAS PIPING ISOMETRICS - NTS

CHART 19-63

DOMESTIC WATER DEMAND AND PIPE SIZING

WATER PIPES SHALL BE SIZED BY APPENDIX "A" OF THE UNIFORM PLUMBING CODE WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:
1. PRESSURE LOSSES IN THE SYSTEM DUE TO BACK FLOW PREVENTION VALVE, WATER SOFTENER, ETC. (EXCEPT WATER METERS).
2. SINGLE STORY STRUCTURE WITH BACK FLOW PREVENTION VALVE.
3. STRUCTURES OVER TWO STORIES.
4. TOTAL DEVELOPED LENGTH OVER 1,000 FEET.

PLAN CHECK # _____ DATE: 12/10/07 PREPARED BY: E. FLECK
PROJECT: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT LOCATION: BAKERSFIELD, CA
WATER METER SIZE 1 1/2"
TOTAL FIXTURE UNITS: 67.5 EQUAL TOTAL GPM 35
TOTAL DISTANCE FROM WELL TO MOST REMOTE PLBG FIXTURE: 332'-0"
TOTAL RISE FOR HEAD LOSS FT. 4' X 0.43 1.72 PSI
PSI REQUIRED FOR WATER CLOSET/URINAL (*F.V. = 15.0 PSI, F.T. = 8.0 PSI) 15.0 PSI
PSI FLOW LOSS THROUGH WATER METER (CHART A-1) 2.9 PSI
PSI FLOW LOSS THROUGH BACK FLOW PREVENTER (RP=12.0 PSI, D.C.=12.0 PSI) 12.0 PSI
TOTAL SYSTEM LOSS 31.62 PSI
MINIMUM PSI AVAILABLE @ JOB SITE 50.0
TOTAL SYSTEM LOSS IN PSI 31.62
REMAINING PSI AVAILABLE (IF NEGATIVE USE BOOSTER PUMP) 18.38
BOOSTER PUMP PSI N/A
TOTAL REMAINING PSI AVAILABLE 18.38
PSI AVAILABLE 18.38 / 332' TOTAL FEET = .0554 X 100 5.54 PSI/100 FT.
USE LINE 1 1/2" ON CHART A-4

PIPE WILL DELIVER	—	GPM FOR	—	*F.V. FIXTURE UNITS	—	*F.T. FIXTURE UNITS	—
PIPE WILL DELIVER	—	GPM FOR	—	*F.V. FIXTURE UNITS	—	*F.T. FIXTURE UNITS	—
2" PIPE WILL DELIVER	80	GPM FOR	155	*F.V. FIXTURE UNITS	270	*F.T. FIXTURE UNITS	—
1 1/2" PIPE WILL DELIVER	37	GPM FOR	22	*F.V. FIXTURE UNITS	76	*F.T. FIXTURE UNITS	—
1 1/4" PIPE WILL DELIVER	25	GPM FOR	0	*F.V. FIXTURE UNITS	42	*F.T. FIXTURE UNITS	—
1" PIPE WILL DELIVER	15	GPM FOR	0	*F.V. FIXTURE UNITS	20	*F.T. FIXTURE UNITS	—
3/4" PIPE WILL DELIVER	7	GPM FOR	0	*F.V. FIXTURE UNITS	7	*F.T. FIXTURE UNITS	—
1/2" PIPE WILL DELIVER	2.5	GPM FOR	0	*F.V. FIXTURE UNITS	2.5	*F.T. FIXTURE UNITS	—
PIPE WILL DELIVER	—	GPM FOR	—	*F.V. FIXTURE UNITS	—	*F.T. FIXTURE UNITS	—
PIPE WILL DELIVER	—	GPM FOR	—	*F.V. FIXTURE UNITS	—	*F.T. FIXTURE UNITS	—

F.V. = FLUSHMETER
F.T. = FLUSH TANK

FIXTURE DESCRIPTION	QTY	F.U. EACH	TOTAL F.U.	HOT F.U.
WC-1 (TANK)	10	2.5	25.0	0
UR-1 (FV)	3	4.0	12.0	0
L-1	8	1.0	8.0	6.0
S-1	2	2.0	4.0	3.0
S-2	1	2.0	2.0	1.5
EW-1	1	0.5	1.0	0
SH-1	2	2.0	4.0	3.0
MS-1	1	3.0	3.0	2.25
DF-1	3	0.5	1.5	0
HB-1	1	2.5	2.5	0
HB-1 (EA. ADDITIONAL)	5	1.0	5.0	0
HB-2 (ADDITIONAL)	2	1.0	2.0	0
TOTAL(S)			69.5	15.75

1 1/2" MINIMUM REQUIRED PER 2001 CPC (CHART A-4- APPENDIX "A")

MAXIMUM WATER SIZING

FIXTURE DESCRIPTION	QTY	F.U. EACH	TOTAL F.U.
WC-1 (TANK)	10	4.0	40.0
UR-1 (FV)	3	2.0	6.0
L-1 (SETS)	8	2.0	16.0
S-1	2	2.0	4.0
S-2	1	2.0	2.0
EW-1	1	1.0	1.0
SH-1	2	2.0	4.0
MS-1 (3")	1	3.0	3.0
DF-1	3	0.5	1.5
P-1	1	0.0	0.0
TOTAL(S)			77.5

4" MIN. REQUIRED PER 2001 CPC TABLE 7-5

WC 1	KOHLER #K-4556 - WHITE ADA APPROVED WATER CLOSET WITH SLOAN "REGAL" #111 FLUSH VALVE (1.6 GPM) AND CHURCH #255SSC OPEN FRONT SEAT
WC 2	KOHLER #K-4556 - WHITE ELONGATED BOWL STANDARD HEIGHT WATER CLOSET WITH SLOAN "REGAL" #111 FLUSH VALVE (1.6 GPM) AND CHURCH #2555SC OPEN FRONT SEAT
UR 1	KOHLER #K-4960-ET - BARDON WALL HUNG URINAL WITH SLOAN #186-0.5 "REGAL" FLUSH VALVE (0.5 GPM)
L 1	KOHLER #K-2196-1 WHITE 20"x17" SELF RIMMING LAVATORY WITH KOHLER #K-15199 SINGLE HANDLE CHROME FAUCET (0.5 GPM LOW FLOW AERATOR OPTION)
S 1	DAYTON #D11721 - 17" x 21" STAINLESS STEEL SINGLE COMPARTMENT SINK WITH KOHLER #K-15171-P SINGLE HANDLE CHROME FAUCET AND GRID STRAINER (0.5 GPM LOW FLOW AERATOR)
S 2	DAYTON #DSE12522 - 25"x22" STAINLESS STEEL SINGLE COMPARTMENT SINK WITH KOHLER #K-15171-P SINGLE HANDLE CHROME FAUCET (1.0 GPM LOW FLOW AERATOR) AND BADGER 5 GARBAGE DISPOSAL
SH 1	FLORESTONE #4452 HC ADA APPROVED FIBERGLASS SHOWER WITH MOEN # 8375 POSITEMP CONTROL (2.5 GPM), HAND SHOWER AND SLIDEBAR (CALIFORNIA ADA COMPLIANT)
MS 1	KOHLER #K-6710 - WHITBY CAST IRON SERVICE SINK WITH T&S #B-0665-BSTR SERVICE SINK FAUCET (9.6 GPM)
DF 1	ELKAY #EZ-STL8LC - BI-LEVEL ADA APPROVED ELECTRIC DRINKING FOUNTAIN
EW 1	HAWS #7260-BT WALL MOUNT EYE WASH WITH GREEN PLASTIC BOWL
WH 1	TAKAGI # TK-3 - TANKLESS WATER HEATER 11,000 BTU (MIN) TO 199,000 BTU (MAX)
P 1	B&G 1/12 HP CAST IRON CIRCULATION PUMP WITH AQUASTAT AND TIMER
FD 1	JR. SMITH #2005Y CAST IRON FLOOR DRAIN WITH NICKLE BRONZE TOP
TP 1	PPP #PR-600 - 1/2" TRAP PRIMER VALVE WITH PPP # DUU 2-4 DISTRIBUTION UNIT (WHERE REQUIRED) AND ELMODOR DW-CL - 12X12 METAL ACCESS DOOR WITH CYLINDER LOCK
FS 1	RICHMOND FOUNDRY - 12"x12"x6" CAST IRON FLOOR SINK
FCD 1	JR. SMITH #4429Y - CAST IRON FLOOR CLEAN OUT WITH NICKLE BRONZE TOP
GCD 1	CHRISTY #G6 CONCRETE UTILITY BOX WITH LID MARKED "SEWER"
RD 1	JR. SMITH #SQ-1-1481 CAST IRON COMBINATION ROOF/OVERFLOW DRAIN WITH CAST IRON DOME STRAINER
HB 1	WOODFORD # 24 - CHROME HOSE BIB WITH VACUUM BREAKER
HB 2	WOODFORD # Y24 - HOSE BIB WITH VACUUM BREAKER

WSFU	WATER SUPPLY FIXTURE UNITS
DFU	DRAINAGE FIXTURE UNITS
CD	CONDENSATE DRAIN
SS	SANITARY SEWER
V	WASTE VENT
VTR	WASTE VENT THROUGH ROOF
R	RETURN HOT WATER
H	HOT WATER
G	GAS
WCO	WALL CLEAN OUT
DW	DISH WASHING MACHINE
DF	DRINKING FOUNTAIN
FAU	FORCED AIR UNIT (GAS)
---	HOT WATER RETURN
---	HOT WATER
---	COLD WATER
---	VENT
---	WASTE

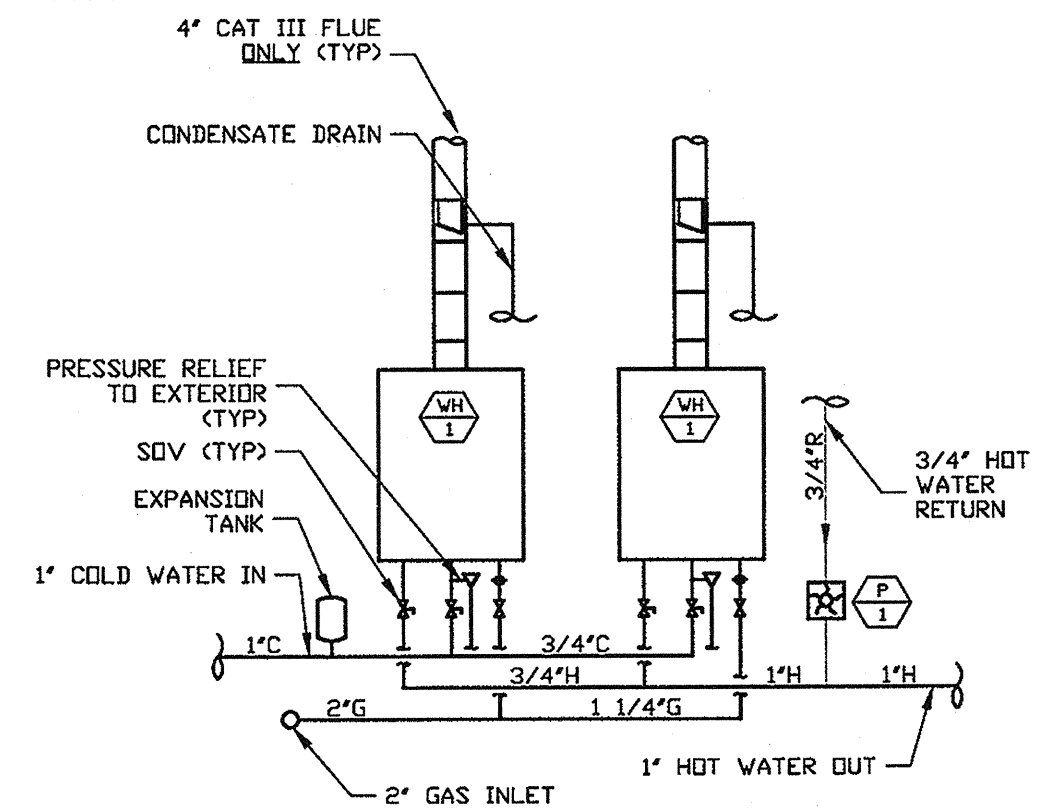
PLUMBING LEGEND

- ALL WASTE AND VENT. PIPING SHALL BE ABS - SLOPED AT 1/8" PER FOOT OR AS NOTED ON PLAN.
- FLOOR DRAINS SHALL HAVE AUTOMATIC TRAP PRIMERS.
- NON-REMOVABLE VACUUM BREAKERS SHALL BE INSTALLED ON ALL HOSE BIBBS AND MOP SINKS, PER 2000 C.P.C.
- PROVIDE SEISMIC RESTRAINTS AND EXPANSION TANK AT WATER HEATERS, PER 2001 C.P.C.
- PROVIDE TEMPERATURE AND PRESSURE RELIEF AT WATER HEATER AND INSTALL PIPING AT 1/8" PER FOOT SLOPE TO FLOOR SINK AS SHOWN.
- ALL PLUMBING AND PLUMBING FIXTURES SHALL COMPLY WITH TITLE 24 HANDICAPPED STANDARDS AND REGULATIONS.
- EXPOSED P-TRAPS SHALL BE WRAPPED TO PROTECT THE HANDICAPPED.
- TRIP AND FLUSH LEVERS SHALL BE INSTALLED ON THE "WIDE" SIDE TO ACCOMMODATE THE HANDICAPPED.
- FLUSHMETERS SHALL NOT EXCEED 1.6 GALLONS PER FLUSH.
- POTABLE WATER SYSTEM SHALL BE DISINFECTED PER C.P.C. 609.9.
- BELOW SLAB WATER PIPING SHALL BE TYPE "K" COPPER TUBE WITH WROUGHT COPPER SOCKET FITTINGS SOLDERED W/ SIL-FLOS SILVER SOLDER.
- ABOVE SLAB WATER PIPING SHALL BE TYPE "L" COPPER TUBE WITH WROUGHT COPPER FITTINGS SOLDERED WITH LEAD FREE SOLDER.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK PIPE WITH BLACK MALLEABLE FITTINGS.
- CONDENSATE PIPING SHALL BE TYPE "M" COPPER TUBE WITH WROUGHT COPPER FITTINGS AND LEAD FREE SOLDER.
- RAIN WATER LEADERS AND DOWNSPOUTS SHALL BE ABS PLASTIC PIPE AND FITTINGS.
- VENT SHALL TERMINATE THRU ROOF PER C.P.C. 906.1 - VENTS SHALL MAINTAIN 10'-0" MINIMUM FROM ANY FRESH INTAKES.

BUILDING PLUMBING NOTES

	SYM.	WASTE CON	WASTE OUT	TRAP	VENT	C/W CON	C/W OUT	H/W CON	H/W OUT
WATER CLOSET(TANK)	WC	3"	3"	---	2",4"	1/2"	1/2"	---	---
WATER CLOSET(FLUSH)	WC	3"	3"	---	2",4"	1.25"	1"	---	---
URINAL	UR	2"	2"	2"	2"	1"	3/4"	---	---
LAVATORY	LAV	2"	2"	2"	2"	3/4"	1/2"	3/4"	1/2"
SINK(KITCHEN)	S	2"	2"	2"	2"	3/4"	1/2"	3/4"	1/2"
SERVICE SINK	SS	3"	3"	3"	3"	3/4"	1/2"	3/4"	1/2"
SHOWER	SH	2"	2"	2"	2"	3/4"	1/2"	3/4"	1/2"
BATHTUB	BT	1.5"	1.5"	1.5"	1.5"	3/4"	1/2"	3/4"	1/2"
DRINKING FOUNTAIN	DF	1.5"	1.5"	1.5"	1.5"	3/4"	1/2"	---	---
FLOOR DRAIN 2" & 3"	FD	2",3"	2",3"	2",3"	2",3"	---	---	---	---
FLOOR SINK	FS	2"	2"	2"	2"	---	---	---	---
CLOTHES WASHER	CW	2"	2"	2"	2"	3/4"	1/2"	3/4"	1/2"
HOSE BIBB	HB	---	---	---	---	3/4"	3/4"	---	---

FIXTURE CONNECTION SCHEDULE



NOTES
1. SEE TAKAGI - TK-3 INSTALLATION MANUAL FOR COMPLETE INSTALLATION GUIDELINES
2. NO COMMON VENTING ALLOWED
3. ELECTRICAL AND FLUE PIPING BY OTHERS

WATER DEMAND

MAXIMUM WASTE SIZING

PLUMBING FIXT. SCHEDULE

WATER HEATER DETAIL

REVISIONS

REVISIONS	DATE
1	1/29/08

PER CITY PLAN CHECK COMMENTS

DEHART Plumbing, Heating & Air, Inc. SINCE 1946
311 BITTUTO WAY • MODESTO, CA 95356
PH (209) 523-4578 • FAX (209) 523-4587
LICENSE #724566

PAGE TITLE

PLUMBING NOTES, DETAILS, & SCHEDULES

PROJECT TITLE

NEW OFFICE FOR:
SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT
BAKERSFIELD, CA

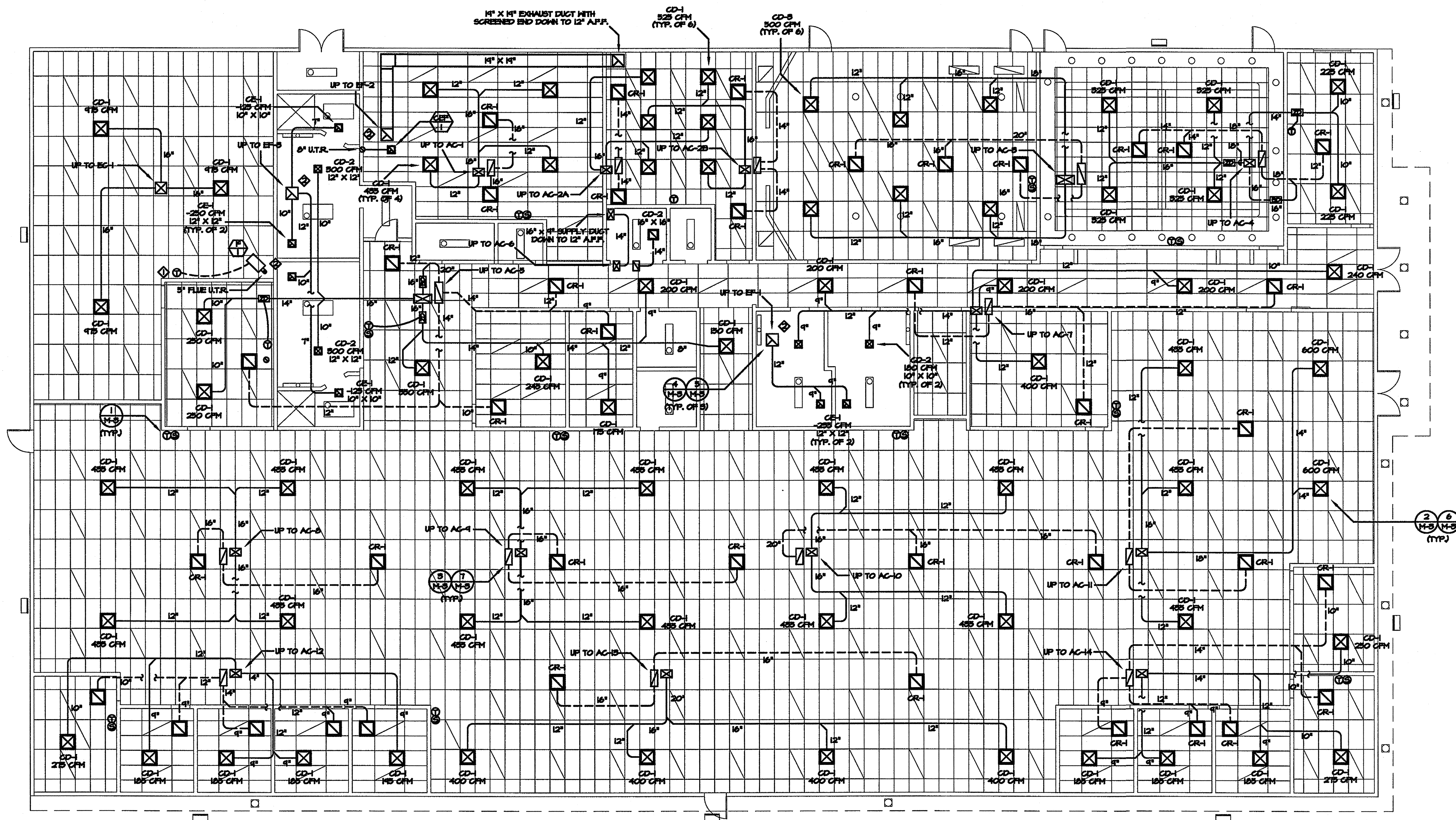
DATE: 3/28/08

DRAWN BY: R.KERR

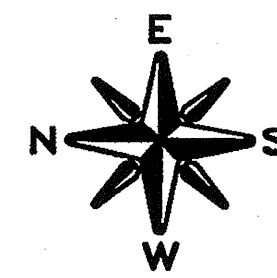
DESIGNED BY: E. FLECK

SCALE: SHOWN

SHEET NO. P5



NOTES:
 ◆ 4-HOUR SPRING MOUND TIMER
 ◆ THERE SHALL BE NO PLUMBING OR EXHAUST VENTS WITHIN A 10' RADIUS OF ANY FRESH AIR INTAKE



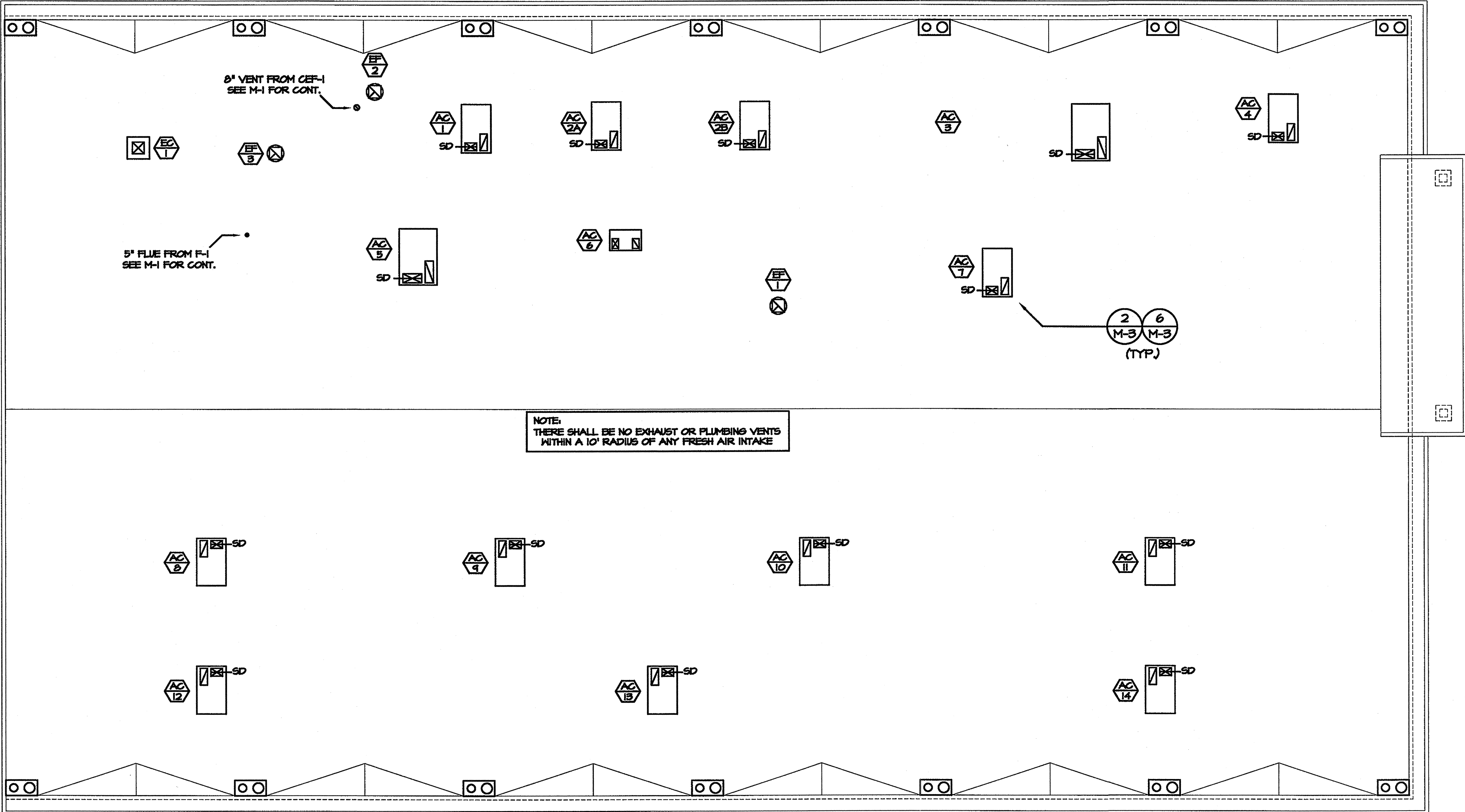
- ☒ SUPPLY AIR DIFFUSER
- ☒ RETURN AIR GRILLE
- ☒ EXHAUST AIR GRILLE
- 1 MANUAL DAMPER
- SD SMOKE DETECTOR
- CFM CUBIC FEET PER MINUTE
- S.A. SUPPLY AIR
- R.A. RETURN AIR
- O.A. OUTSIDE AIR
- T THERMOSTAT
- S CO₂ SENSOR

REVISIONS	DATE
△	
△	
△	

DEHART
 Plumbing, Heating & Air, Inc.
 SINCE 1946
 328-08
 201 KERR AVE. • MODESTO, CA 95354
 PH (209) 523-4515 • FAX (209) 523-4501
 LICENSE #724566

PROJECT TITLE	PAGE TITLE
TENANT IMPROVEMENTS FOR: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT BAKERSFIELD, CA	AIR DISTRIBUTION PLAN

DATE:	12/14/07
DRAWN BY:	J. HARDIN
DESIGNED BY:	J. HARDIN
SCALE:	1/8" = 1'-0"
SHEET NO.	M-1



SD - SMOKE DETECTOR

REVISIONS	DATE
△	
△	
△	

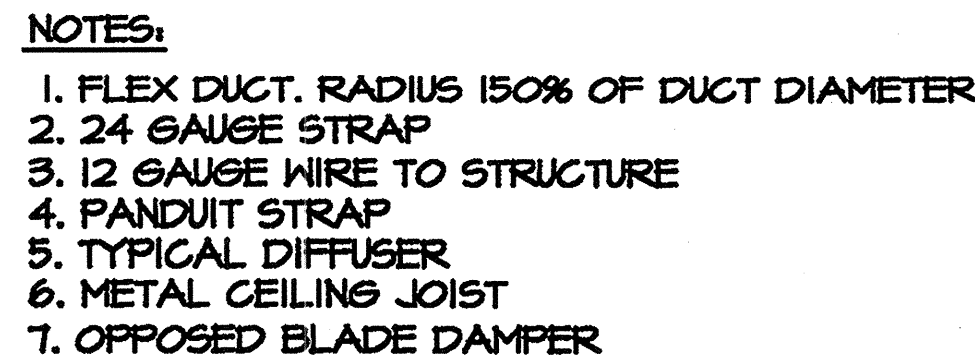
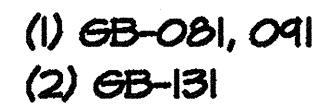
DEHART
Plumbing, Heating & Air, Inc.
J. Hardin
3-28-08

SINCE 1946
204 KERR AVE. • MODESTO, CA 95354
PH (209) 523-4878 • FAX (209) 523-4881
LICENSE #724966

ALL DESIGNS AND OTHER INFORMATION ON THESE DRAWINGS ARE FOR THE USE IN THE SPECIFIED PROJECT FOR DEHART PLUMBING, HEATING & AIR AND SHALL NOT BE USED OTHERWISE WITHOUT EXPRESS WRITTEN PERMISSION OF DEHART PLUMBING, HEATING & AIR.

PROJECT TITLE	PAGE TITLE
TEENANT IMPROVEMENTS FOR SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT BAKERSFIELD, CA	HVAC ROOF PLAN

DATE:	12/14/07
DRAWN BY:	J. HARDIN
DESIGNED BY:	J. HARDIN
SCALE:	1/8" = 1'-0"
SHEET NO.	M-2



DIFFUSER SCHEDULE

ROOF EXHAUST FAN SCHEDULE

1. UNITS ARE TO OPERATE UNDER DEMAND CONTROL VENTILATION - PROVIDE ECONOMIZERS WITH POWER EXHAUST
2. PROVIDE UNIT WITH SMOKE DETECTOR IN SUPPLY AIR DUCT. DETECTOR TO SHUT DOWN SUPPLY FAN UPON DETECTION OF SMOKE.

- ## MECHANICAL NOTES

ALL DESIGNS AND OTHER INFORMATION
ON THESE DRAWINGS ARE FOR THE
USE ON THE SPECIFIED PROJECT FOR
DEHART PLUMBING, HEATING & AIR
AND SHALL NOT BE USED OTHERWISE
WITHOUT EXPRESS WRITTEN PERMISSION
OF DEHART PLUMBING, HEATING & AIR.

DATE:	12/14/07
DRAWN BY:	J. HARDIN
DESIGNED BY:	J. HARDIN
SCALE:	AS NOTED
SHEET NO.	

M-3

[illegible][illegible][illegible]

ENV-1-C			CERTIFICATE OF COMPLIANCE		MECH-1	
DATE			PROJECT NAME		DATE	
12/14/2007			San Joaquin Valley Air Pollution Control Dist.		12/14/2007	
Design:						
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is to check the boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment or a certain type requires equipment documentation and the number of systems to be tested is in parentheses. The NU number designates the Section in the Appendix of the Northridge Code Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of acceptance.						
Building Departments:						
SYSTEM ACCEPTANCE. Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system is installed, building or space is operational for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition, a Certificate of Acceptance, MECH-1-A Form shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-100(b) and Title 24 Part 8.						
MECH-2-A: Ventilation System Acceptance Document						
☐ Variable Air Volume Systems Outdoor Air Acceptance ☐ Constant Air Volume Systems Outdoor Air Acceptance Equipment requiring acceptance testing: Test required on all new systems both <i>New Construction and Rework</i>.						
MECH-3-A: Packaged HVAC Systems Acceptance Document						
Equipment requiring acceptance testing: Test required on all new systems both <i>New Construction and Rework</i>.						
MECH-4-A: Air-Side Economizer Acceptance Document						
Equipment requiring acceptance testing: Test required on all new systems both <i>New Construction and Rework</i>. Units with economizers that are installed at the factory and covered with the commission do not require equipment testing but do require construction inspection.						
MECH-5-A: Air Distribution Acceptance Document						
Equipment requiring acceptance testing: This test required if the test covers 5,000 SF of space or less and 25% or more of the ducts are in nonconditioned or unpartitioned space. If less, then systems that meet the above requirements. Repeat systems that meet the above requirements and other standards, include or remove as pertinent.						
MECH-6-A: Demand Control Ventilation Acceptance Document						
Equipment requiring acceptance testing: All new DCV systems installed on new or existing controlled systems and not tested.						
MECH-7-A: Supply Fan Variable Flow Acceptance Document						
Equipment requiring acceptance testing: All new VAV fan volume controls installed on new or existing systems to be tested.						
MECH-8-A: Hydraulic System Control Acceptance Document						
☐ Variable Flow Controls: Applies to chilled and hot water systems. ☐ Automatic Isolation Controls: Applies to new boilers and chillers and the primary pumps are connected to a common header. ☐ Supply Water Temperature Reset Controls: Applies to new variable flow chilled and hot water systems that have a design capacity greater than or equal to 100,000 Btu/hr. ☐ Water-loop Heat Pump Controls: Applies to all water-loop heat pump systems where the connected loop pumps are greater than 8 gpm. ☐ Variable Frequency Controls: Applies to all new distribution pumps on new variable flow chilled, hydraulic heat pump systems and other pumps. Equipment requiring acceptance testing:						
Plan No. 2008		Page 12 of 24		Job Number: 5971		Job Number: 7078

[illegible]

ALL DESIGNS AND OTHER INFORMATION ON THESE DRAWINGS ARE FOR THE USE IN THE SPECIFIED PROJECT FOR JENHART PLUMBING, HEATING & AIR AND SHALL NOT BE USED OTHERWISE WITHOUT EXPRESS WRITTEN PERMISSION OF JENHART PLUMBING, HEATING & AIR	
PROJECT TITLE	PAGE TITLE
SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT BAKERSFIELD, CA	TITLE 24 DOCUMENTATION
DATE: 12/14/01	
DRAWN BY: J. HARDIN	
DESIGNED BY: J. HARDIN	
SCALE: AS NOTED	
SHEET NO. M-4	

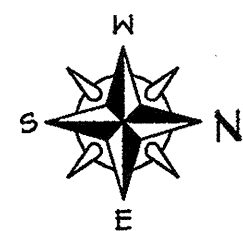
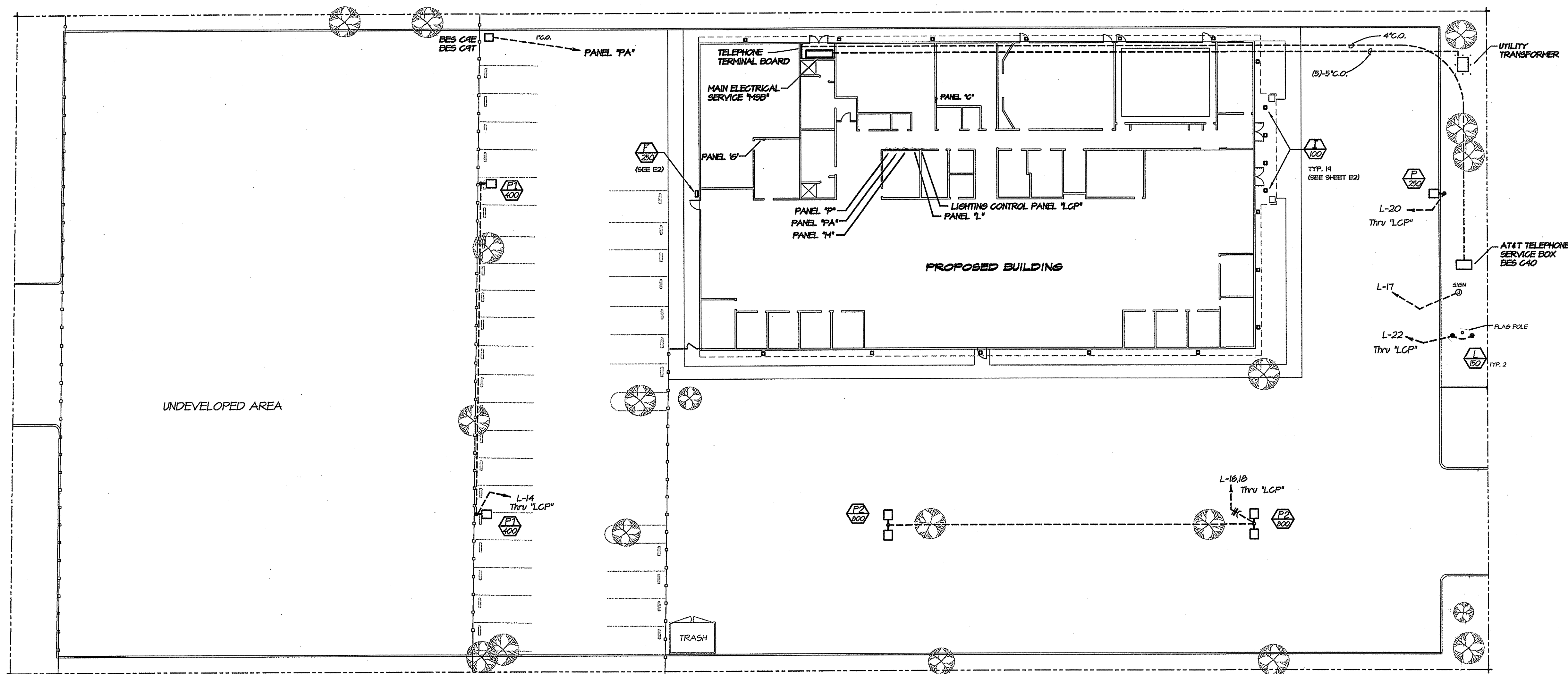
MECHANICAL VENTILATION												MECH-3-C	
PROJECT NAME San Joaquin Valley Air Pollution Control Dist.										DATE 12/14/2007			
MECHANICAL VENTILATION (Section 121(b)(2))										PRESCRIPTIVE REHEAT LIMITATION (Section 144(d))			
AREA BASIS										OCCUPANCY BASIS			
A	B	C	D	E	F	G	H	I	J	K	L	M	N
ZONE/SYSTEM	Room Occupation (ft ²)	Room Area (ft ²)	Room Volume (ft ³)	Number of People	Number of People	Number of People	Number of People	Number of People	Number of People	Number of People	Number of People	Number of People	Number of People
Zone 1	84	0.15	126	8.4	15.0	126	126	126	126				
AC-1													
AC-2A, AC-2B	46	0.15	69	4.6	15.0	69	69	69	69				
Zone 3	1,111	0.50	555	74.4	7.5	555	555	555	555				
AC-3													
Zone 4	1,171	0.50	585	78.4	7.5	585	585	585	585				
AC-4													
Zone 5	1,203	0.15	320	21.3	15.0	320	320	320	320				
AC-5													
Zone 6	125	0.15	18	1.2	15.0	18	18	18	18				
AC-6													
Zone 7	1,403	0.15	210	14.0	15.0	210	210	210	210				
AC-7													
Zone 8	5,311	0.15	787	53.1	15.0	787	787	787	787				
AC-8, AC-9, AC-10													
Zone 9	1,671	0.15	251	16.8	15.0	251	251	251	251				
AC-11													
Zone 10	711	0.15	107	7.1	15.0	107	107	107	107				
AC-12													
Zone 11	1,021	0.15	154	10.3	15.0	155	155	155	155				
AC-13													
Zone 12	751	0.15	113	7.5	15.0	113	113	113	113				
AC-14													
Zone 13	1,213	0.15	184	12.9	15.0	184	184	184	184				
Minimum ventilation rate per Section 121, Table 121-1													
Based on first cost or the priority of the expected number of occupants and 50% of the CFM required for room purposes for rooms without first cost													
Required Ventilation Air (CFM) is the sum of the ventilation rates calculated on and added, or added to the CFM required for room purposes for rooms without first cost													
Must be greater than or equal to the sum of the Required Ventilation Air (CFM) and the CFM required for room purposes for rooms without first cost													
Option for supply air (CFM) is 100% of													
Conditioning area in sq ft of each zone, or													
Minimum of Columns 1, 4, 6, or 200 cfm													
This must be less than or equal to Column 1 and greater than or equal to the sum of Columns 1 + 4													
Transfer air must be provided where the Required Ventilation Air (column H) is greater than the Design Minimum Air (column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (column H) and the Design Minimum Air (column M), column H - M.													
Run Initiation Time: 12/14/07 11:56:21										Run Code: 1197662181			
EnergyPro 4.2 by EnergySoft										User Number: 6271 Job Number: 7076			
										Page 18 of 24			

MECHANICAL VENTILATION												MECH-3-C	
PROJECT NAME San Joaquin Valley Air Pollution Control Dist.										DATE 12/14/2007			
MECHANICAL VENTILATION (Section 121(b)(2))										PRESCRIPTIVE REHEAT LIMITATION (Section 144(d))			
AREA BASIS										VAV MINIMUM			
OCCUPANCY BASIS													
MINIMUM													
MAXIMUM													
ZONE/SYSTEM													
EC-1, F-1										100% OA			

ENVELOPE MANDATORY MEASURES		ENV-MM	
PROJECT NAME San Joaquin Valley Air Pollution Control Dist.		DATE 12/14/2007	
DESCRIPTION		Designer	Enforcement
☒	116(a) Installed Insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for Insulating material, Title 20, Chapter 4, Article 3.		
☒	116(c) All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.		
☒	117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.		
☒	118(b) Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).		
☒	116(a) Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E, of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.		
☒	118(e) Damaging Walls in Nonresidential Buildings: The opaque portions of framed doming walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.		
EnergyPro By EnergySoft User Number: User Job Number: 7076		Page 22 of 24	

MECHANICAL MANDATORY MEASURES		Part 1 of 2 MECH-MM	
PROJECT NAME San Joaquin Valley Air Pollution Control Dist.		DATE 12/14/2007	
DESCRIPTION		Designer	Enforcement
Equipment and Systems Efficiencies			
☒	111	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.	
☒	115(a)	Fan type central furnaces shall not have a pilot light.	
☒	123	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.	
☒	124	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the 2001 CMC Standards.	
Controls			
☒	122(a)	Each space conditioning system shall be installed with one of the following:	
☒	122(a)1A	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or	
☐	122(a)1B	An occupancy sensor to control the operating period of the system; or	
☐	122(a)1C	A 4-hour timer that can be manually operated to control the operating period of the system.	
☒	122(a)2	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setback cooling thermostat setpoint.	
☐	122(a)3	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.	
☒	122(a)4b	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.	
☒	122(c)	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint steps accessible only to authorized personnel.	
☐	112(b)	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.	
EnergyPro 4.2 by EnergySoft		User Number: 6276	Job Number: 7076
		Page 23 of 24	

MECHANICAL MANDATORY MEASURES												Part 2 of 2 MECH-MM			
PROJECT NAME San Joaquin Valley Air Pollution Control Dist.										DATE 12/14/2007					
Description												Designer	Enforcement		
Ventilation															
☒	121(i)	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.													
☐	122(i)	Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.													
☒	122(i)	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.													
☐	121(f)	Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1989); or													
☐	121(i)(2)	Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed c-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed c-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or													
☐	121(i)(3)	Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display device; or													
☒	121(f)(4)	Another method approved by the Commission.													
Service Water Heating Systems															
☒	113(a)(2)	If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.													
☒	113(a)	Launderies in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F.													
</															



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

STANDARD ELECTRICAL SYMBOL LIST

- SURFACE MOUNT FLUORESCENT - SEE FIXTURE SCHEDULE.
- LENSED RECESSED FLUORESCENT FIXTURE - SEE SCHEDULE.
- EMERGENCY EXIT SIGN - SEE SCHEDULE.
- EMERGENCY BATTERY PACK W/TWO HEADS-SEE SCHEDULE.
- RECESSED CAN LIGHT - SEE FIXTURE SCHEDULE.
- HIGH BAY/LOW BAY FIXTURE - SEE SCHEDULE.
- SINGLE POLE TOGGLE SWITCH, 40" UNLESS NOTED.
- THREE WAY TOGGLE SWITCH, 40" UNLESS NOTED.
- 15AMP 125V 3W FLUSH FLOOR MOUNTED RECEPTICLE.
- 15AMP 125V NEMA 5-15R DUPLEX RECEPTICLE, 40".
- 50AMP 208V NEMA 6-50 SPECIALTY OUTLET IN SHOP AREA.
- 15AMP 120V QUADPLEX RECEPTICLE.
- TELEPHONE OUTLET, 4 1/16" SQ. BOX W/IRING & PLATE.
- JUNCTION BOX, SIZE AND TYPE AS INDICATED, OR AS REQ'D.
- POWER POLE - HOOK-UP ONLY, SUPPLIED BY OTHERS.
- COMPUTER OUTLET - CONDUIT ONLY/CABLE BY OTHERS.
- TELEPHONE TERMINAL BACKBOARD.
- FUSED DISCONNECT SWITCH - SIZE AND TYPE AS REQ'D.
- CONTROL EQUIP. - N.I.E.S. INSTALL & CONNECT AS REQ'D.
- MOTOR - N.I.E.S. CONNECT AS REQ'D.
- EXHAUST FAN - N.I.E.S. CONNECT AS REQ'D.
- SURFACE MOUNT PANELBOARD - SEE PANEL SCHEDULE.
- FLUSH MOUNT PANELBOARD - SEE PANEL SCHEDULE.

- P1-1 ELECTRICAL HOMERUN (PANEL "P1", CIRCUIT #1)
- C.O. EMPTY CONDUIT W/ FULL LINE.
- WP WEATHERPROOF.
- "G" GREEN INSULATED GROUND WIRE, #12 AWG UNLESS NOTED.
- U.O.N. UNLESS OTHERWISE NOTED.
- NL NIGHT LIGHT.
- GFI GROUND FAULT CIRCUIT INTERRUPTER.
- CONDUIT RUN CONCEALED IN CEILING OR WALL.
- CONDUIT RUN CONCEALED BELOW FINISHED FLOOR OR GRADE.
- HOME RUN TO RESPECTIVE PANEL OR TERMINAL CABINET.
- BRANCH CIRCUIT W/CONDUCTORS & "G" GROUND WIRE.
- SW AUTOMATIC WALL SWITCH - WATT STOPPER #W5-200.

NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE

Building Lighting Shut-off:
The building lighting shut-off system consists of an automatic time switch, with a zone for each floor.

Override For Building Lighting Shut-off:
The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 s.f.

Automatic Control Devices Certified:
All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.

Fluorescent Ballast and Luminaires Certified:
All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.

Tandem Wiring For Two-Lamp Ballasts:
All one and three lamp fluorescent fixtures are tandem wired with two (2) lamp ballast where required by Standards 152; or, All three lamp fluorescent fixtures are specified with electronic high-frequency ballasts and are exempt from two-lamp tandem wiring requirements.

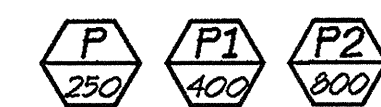
(Title 24, Part 6, Ch. 1)
LIGHTING MANDATORY MEASURES:

Individual Room/Area Controls:
Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.

Uniform Reduction For Individual Rooms:
All rooms and areas greater than 100 square feet and more than 1.2 watts per s.f. of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.

Daylight Area Control:
All rooms with windows and skylights that are greater than 250 s.f. and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylight area controlled by a separate switch.

Control of Exterior Lights:
Exterior mounted fixtures served from the electrical panel inside the building are controlled with a directional photo cell control on the roof and a corresponding relay in the electrical panel.



SPAUING (2) CRI-A-H25-HB-F-Q-XX
Pole #555-2-40-1-XX W/Arm #GR-K-TA-XX
LAMP: 250W / 400W MH
VOLTAGE: QUAD TAP (120,208,240,277V)
FINISH: VERIFY WITH OWNER

4" SQUARE STRAIGHT POLE:
PRIMED & PAINTED WITH
TWO COATS OF QUALITY
ENAMEL IN FACTORY, COLOR TO
MATCH HEAD, TOUCH-UP BY ELECT.
CONT. (EPA RATING = 80mph
WINDS AND SHALL BE CONSTRUCTED
PER U.B.C. STANDARDS.)

QTY. (4) 1" x 30" LONG
ANCHOR BOLTS W/3" HOOK
AT BOTTOM. VERIFY BOLT
PATTERN WITH LIGHT POLE
SUPPLIER PRIOR TO POUR.

PROVIDE FLAT BEARING SURFACE
AT BASE OF POLE WITH ROUNDED
OUTER EDGES FOR DRAINAGE.

3/4" PVC CONDUIT
W/2-1/2" x 1-1/2" THIN CU.
(4) #6 VERTICAL BARS
@ 5" ON C. W/ #5 TIES @
12" O.C.

LIGHT POLE DETAIL
NOT TO SCALE

UTILITIES CONTACT:

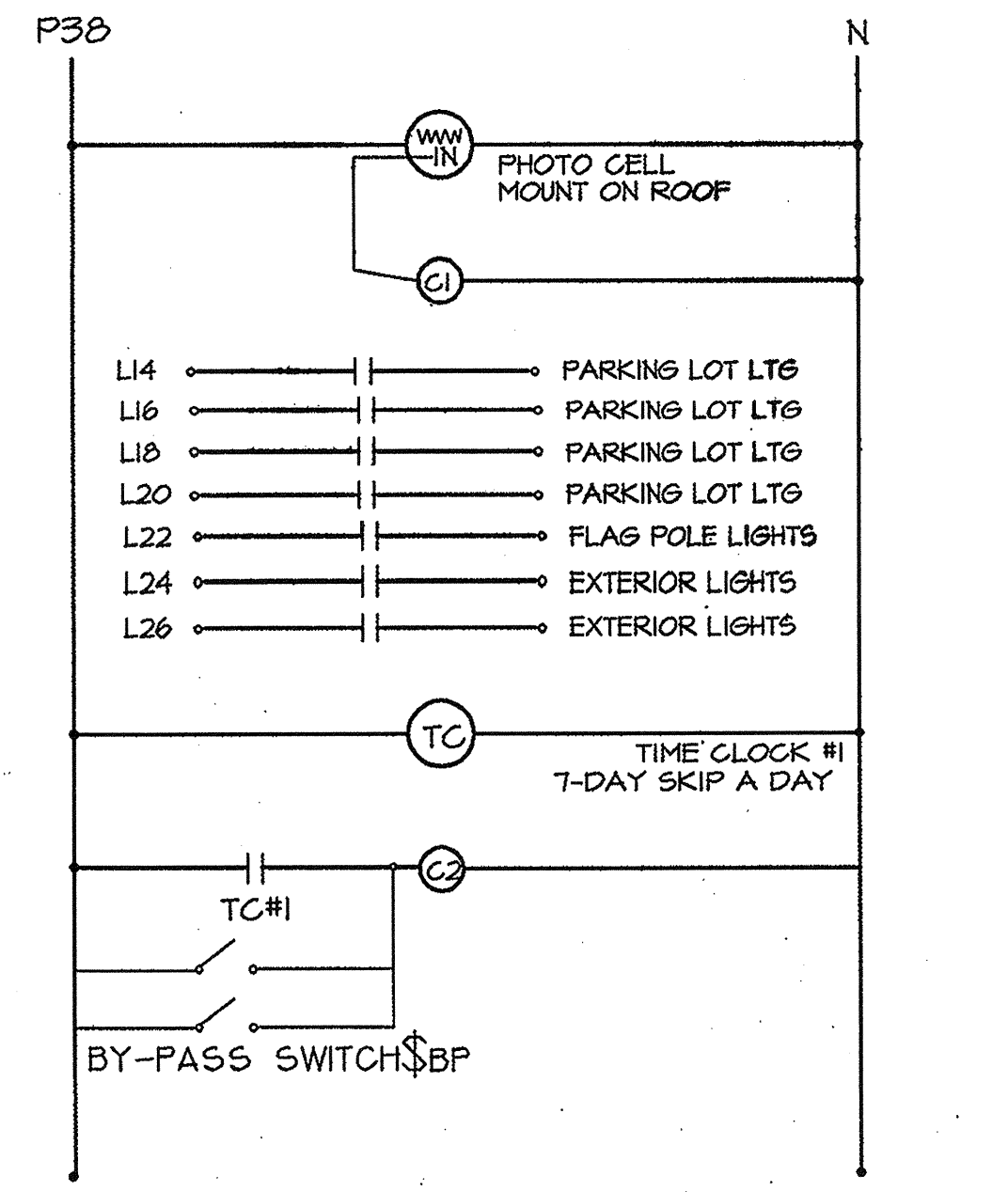
SO. CAL EDISON - BILL (554) 685-3742
AT&T - REGGIE SMITH (661) 631-3413

NOTE: CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CALL U.S.A. UNDERGROUND SERVICE ALERT (TOLL FREE 800-642-2444) PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, PIPE PUSHING, PLANTING TREES, DIGGING FENCE POST HOLES, ETC. THEY WILL SUPPLY INFORMATION OR LOCATE AND MARK ANY UNDERGROUND FACILITIES.

DARRALE PATRIAS
ELECTRICAL CONTRACTOR INC.
2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA. 95381

Signed: *Kristen Patrias*
(204) 632-6146 Lic. No. 348403

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- | | | |
|-----|--|------------------------------|
| L1 | | OFFICE LIGHTING |
| L3 | | OFFICE LIGHTING |
| L5 | | OFFICE LIGHTING |
| L7 | | OFFICE LIGHTING |
| L9 | | CONFERENCE RM. LTG. |
| L11 | | CONFERENCE RM. LTG. |
| L13 | | LAB. & GARAGE LIGHTING |
| L2 | | MGR. / SUPERV. OFF. LTG. |
| L4 | | STOR., RR., CS. LIGHTING |
| L6 | | HALL, CONF. RM. LTG. |
| L8 | | VIDEO CONF. RM. LTG. |
| L10 | | COMPUTER RM. LTG. |
| L12 | | STOR., LUNCH, JAN., RR. LTG. |
| | | SPARE |

LIGHTING CONTROL PANEL

N.T.S

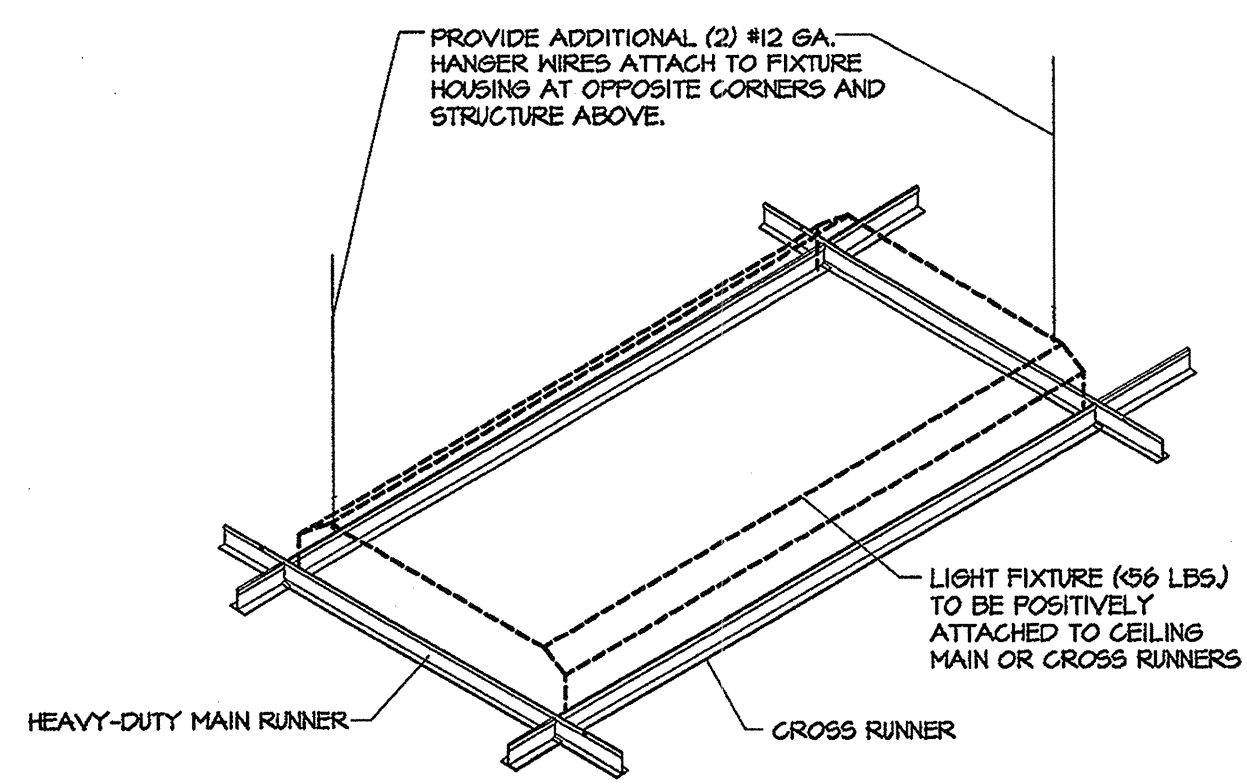
LEGEND

- \$BP BY-PASS SWITCH WATT STOPPER #AS-110
 \$M AUTOMATIC WALL SWITCH - WATT STOPPER #WS-200
 (PC) PHOTO CELL WATT STOPPER #EM-24A2
 "LCP" LIGHTING CONTROL PANEL (SEE DETAIL THIS SHEET)

ELECTRICAL LIGHTING PLAN

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

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER
A	2-F032/741	LITHONIA	#2GTB 232 A12 UNV EBB1
B	2-F032/741	LITHONIA	#LB 232 UNV EBB1
C	2-F032/741	LITHONIA	#WC 232 UNV EBB1
D	2-F032/741	LITHONIA	#2PM3N 6 B 232 24 ND UNV EBB1
E	2-F032/741	LITHONIA	#PM3N 6 B 232 8 ND UNV EBB1
F	LU 250	LITHONIA	#TWR 2 250S TB LPI
G	4-F032/741	LEDALITE	#252 6 TO2 S N 0811 E W
G1	-	LEDALITE	#252 6 JNNNNW (In-line Joint)
G2	-	LEDALITE	#252 6 MLLWW ('L' Intersection)
H	50W 12V MR16	HALO	#H499T/1421C
I	LU100/DIMED	LITHONIA	#LP6H 100S 120/603A
J	2-F032/U6/741/ECO	LITHONIA	#2GTB U316 UNV EBB1
K	2-F032/741	LITHONIA	#2M2-32-FW-A12125-MVOLT-GEB
L	150MH/EDIT	KIM	#KN-LTVIO/KN-RSIO
⊗	LED	LITHONIA	#LGMS W 3 6 120/27T ELN
⊕	-	LITHONIA	#ELM2



LIGHT FIXTURE SUPPORT

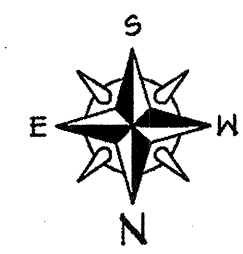
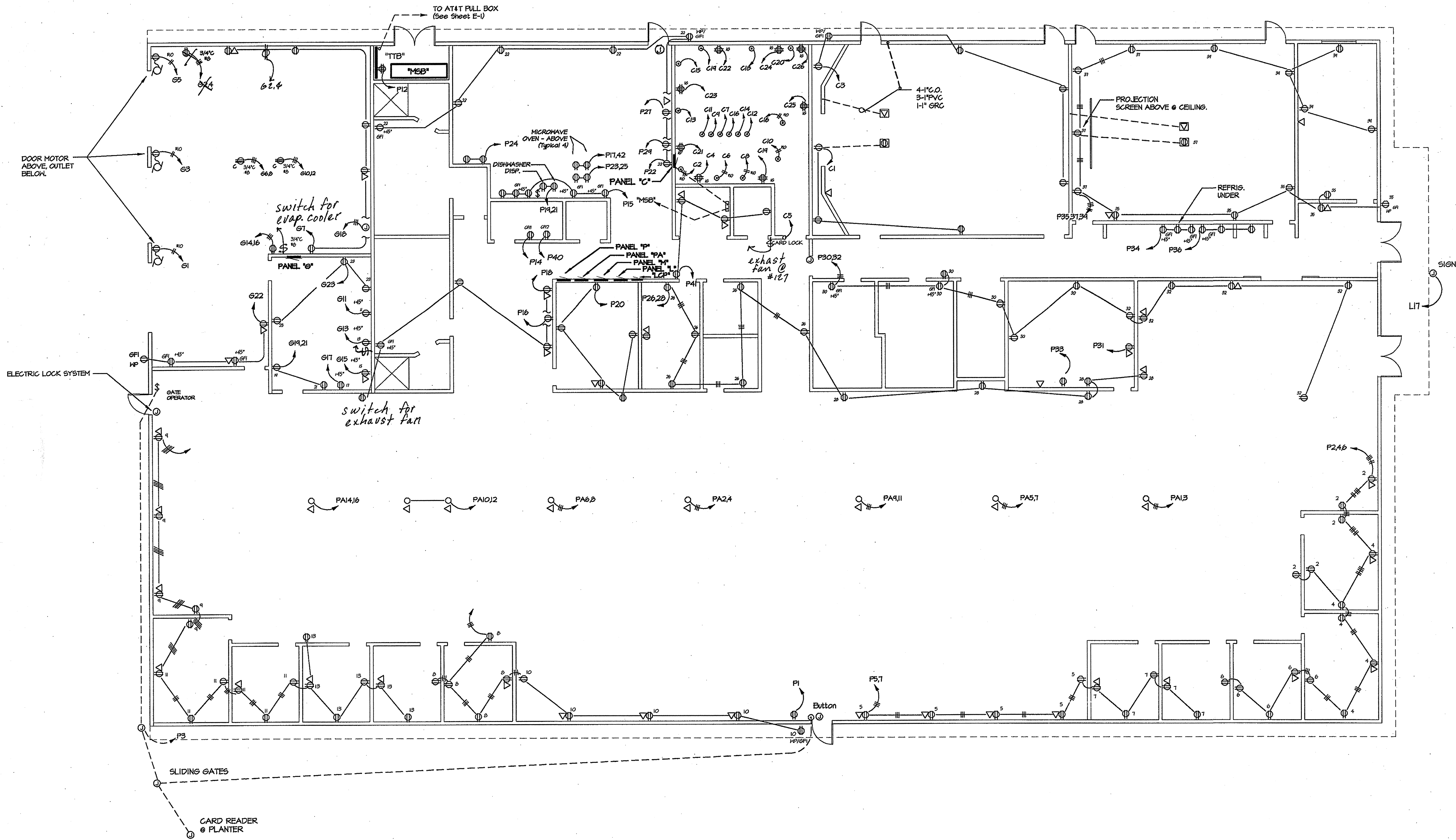
N.T.S.

DARRALE PATRIAS
ELECTRICAL CONTRACTOR INC.
2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA. 95381

Signed: Danah Doh

(209) 632-6196 Lic. No. 348403

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ELECTRICAL POWER PLAN

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

BASIC NOTES & SPECIFICATIONS

ALL ELECTRICAL SHALL BE INSTALLED IN COMPLIANCE WITH THE 2002 NEC.

CONDUITS:

1. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40. ALL UNDERGROUND CONDUITS RUN UNDERNEATH BLDGS SHALL BE RUN BELOW SLAB. ALL UNDERGROUND CONDUITS RUN OUTSIDE OF BLDGS SHALL HAVE MIN 24" COVER.
2. ALL CONDUITS IN BLDGS SHALL BE CONCEALED IN WALL OR ATTICS. CONDUITS SHALL BE EMT, OR METALLIC FLEX CONDUITS FOR CONNECTION TO LIGHTING FIXTURES IN SUSPENDED ACCESSIBLE CEILINGS, MOTORS OR MOTORIZED EQUIPMENT.
3. ALL CONDUITS RUN ON ROOF OR EXPOSED TO WEATHER SHALL BE EMT OR LIQUID-TIGHT FLEX CONDUITS WITH WATER-TIGHT CONNECTION AND FITTINGS.
4. ALL CONDUIT PENETRATION THROUGH ROOF SHALL HAVE ROOF JACKS WITH LEAD FLASHINGS FOR WATER-TIGHT INSTALLATION.
5. TYPICAL 20 AMP BRANCH CIRCUITS SHALL BE 1/2" CONDUIT WITH (3) #12 THHN w. UNLESS NOTED OTHERWISE.

CONDUCTORS:

ALL CONDUCTORS SHALL BE THINWALL COPPER, UNLESS NOTED OTHERWISE.

DEVICES & EQUIPMENT:

ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED. CEC Article 110-2
ALL RECEPTACLES ARE TO BE MOUNTED NO LESS THAN 15" AFF.
ALL LIGHT SWITCHES ARE TO BE MOUNTED NO MORE THAN 48" AFF.
PROVIDE OUTLET WITHIN 25' OF EQUIPMENT PER 210-63.
▽ LAN / PHONE OUTLET BY OTHER - PROVIDE BOX W/ PULL WIRE ONLY.

LIGHTING:

EXIT SIGNS ARE TO BE ILLUMINATED AT ALL TIMES AND PROVIDED WITH AN EMERGENCY ELECTRICAL SYSTEM FROM STORAGE BATTERIES TO INSURE ILLUMINATION FOR NO LESS THAN 1 1/2 HRS IN CASE OF PRIMARY POWER LOSS. CBC Section 1003.2.8.5

DARRALE PATRIAS
ELECTRICAL CONTRACTOR INC.
2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA. 95381

Signed: *Darrale Patris*
(209) 632-6196 Lic. No. 348403

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REVISIONS	BY

DARRALE PATRIAS
Electrical Contractor, Inc.
2480 N. WALNUT ROAD / P.O. BOX 1832 - TURLOCK, CALIFORNIA 95381
Telephone (209) 632-6196 Calif. Lic. #348403

Robert Hart, Architect
Architecture and Planning
Creative Residences
3225 GARDEN DR.
DUBLIN, CA 94568
(925) 835-3300

PROJECT NAME: **SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**
BAKERSFIELD, CALIFORNIA

DATE: 04/10/08
JOB: 07-141
BY: KCP
SHEET: **E3**



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

ALL ELECTRICAL SHALL BE INSTALLED IN COMPLIANCE WITH THE 2002 NEC.

1. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40. ALL UNDERGROUND CONDUITS RUN UNDERNEATH BLDGS SHALL BE RUN BELOW SLAB. ALL UNDERGROUND CONDUITS RUN OUTSIDE OF BLDGS SHALL HAVE MIN 24" COVER.

- ALL CONDUCTORS SHALL BE THINWALL, COPPER UNLESS NOTED OTHERWISE.

ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED. CEC Article 110-2

- ALL RECEPTACLES ARE TO BE MOUNTED NO LESS THAN 15" AFF.
ALL LIGHT SWITCHES ARE TO BE MOUNTED NO MORE THAN 48" AFF.

PROVIDE OUTLET WITHIN 25' OF EQUIPMENT PER 210-63.

EXIT SIGNS ARE TO BE ILLUMINATED AT ALL TIMES AND PROVIDED WITH AN EMERGENCY ELECTRICAL SYSTEM FROM STORAGE BATTERIES TO INSURE ILLUMINATION FOR NO LESS THAN 1 1/2 HRS IN CASE OF PRIMARY POWER LOSS. CBC Section 1003.2.8.5

PROJECT NAME:

DATE: 04/01/08

JOB: 07-141

BY: KCF

SHEET:

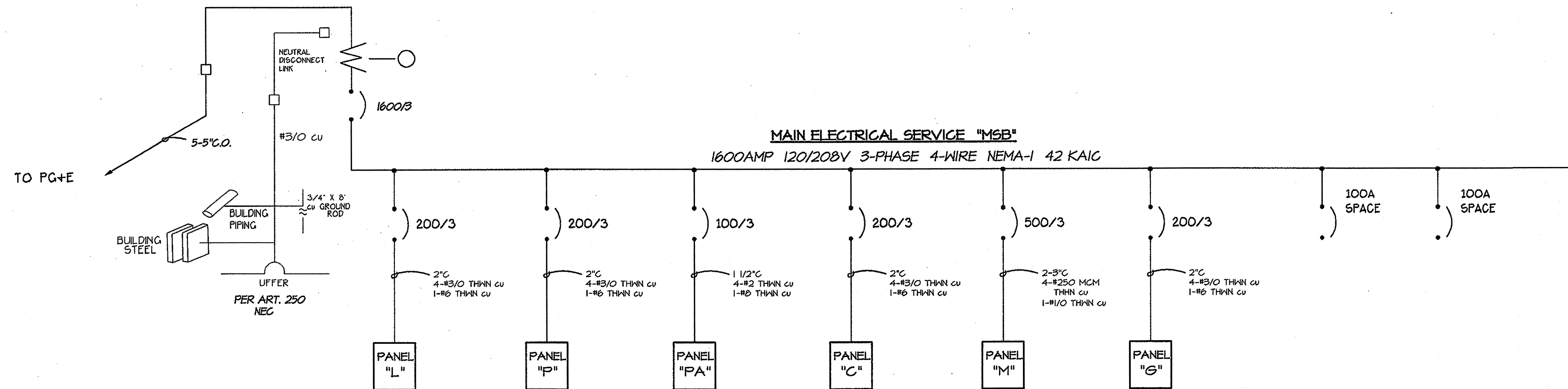
E4

Robert Hart, Architect

PROJECT NAME, SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT
BAKERSFIELD, CALIFORNIA

DARRALE PATRIAS
Electrical Contractor, Inc.
2480 N. WALNUT ROAD / P.O. BOX 1832 - TURLOCK CALIFORNIA 95381
Cable: JIC #3484073
Cable: JIC #3484073
Cable: JIC #3484073

REVISIONS	B



ONE LINE DIAGRAM

N.T.S.

PANEL SCHEDULE "L"

MOUNTING: FLUSH		AMPS: 200		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4		
BRKR		CIRC.	REC.	CIRC.	PHASE			CIRC.	REC.	CIRC.	BRKR	
A	P	WATTS	LUG	No.	A	B	C	LUG	WATTS	No.	A	
201	1	1536	24	1	3136		2	25	1600	MSR. 4 SUPPLY OFF. LTB.	20	
201	1	1128	27	3		2444	4	14	1216	STOR. RR. CS LTB.	20	
201	1	1192	28	5			3136	6	21	1344	HALL. CONF. RM. LTB.	20
201	1	1192	28	7	3642			8	31	1400	VIDEO CONFERENCE LTB.	20
201	1	1536	12	9		2368		10	13	832	COMPUTER RM. LTB.	20
201	1	1020	21	11			2330	12	20	1280	STOR. LUNCH. JAN. RR LTB.	20
201	1	1600	25	13	2460			14	2	860	SITE LIGHTING	20
201	1	1500	28	15		2590		16	2	860	SITE LIGHTING	20
201	1	1500	1	17			2790	18	2	860	SITE LIGHTING	20
201	1			19	250			20	2	250	SITE LIGHTING	20
				21		300		22	2	300	FLAG POLE LIGHTING	20
				23			850	24	6	850	EXTERIOR LIGHTING	20
				25	1400			26	14	1400	EXTERIOR LIGHTING	20
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
PHASE TOTALS		10438	7712	8676						16.11	AMPS.	

PHASE TOTALS 10438 7712 8676 16.11 AMPS.

PANEL SCHEDULE "C"

MOUNTING FLUSH		AMPS: 200		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4		
BRKR		CIRC. WATTS	REC. LUG	CIRC. NO.	PHASE		CIRC. NO.	REC. LUG	CIRC. WATTS		BRKR	
A	P		L.T.S.		A	B	C				A	
201	1	OUTLETS 124	720	4	1	1120		2	1	1000	COMPUTER EQUIPMENT	30
201	1	OUTLETS 124	720	4	3	1220		4	1	500	QUADPLEX OUTLET	30
15	1	CARDLOCK SYSTEM	200	1	5		1200	6	1	1000	COMPUTER EQUIPMENT	30
30	1	COMPUTER EQUIPMENT	1000	1	7	2000		8	1	1000	COMPUTER EQUIPMENT	30
30	1	COMPUTER EQUIPMENT	1000	1	9	2000		10	1	1000	COMPUTER EQUIPMENT	30
30	1	COMPUTER EQUIPMENT	1000	1	11		2000	12	1	1000	COMPUTER EQUIPMENT	30
30	1	COMPUTER EQUIPMENT	1000	1	13	2000		14	1	1000	COMPUTER EQUIPMENT	30
30	1	COMPUTER EQUIPMENT	1000	1	15		2000	16	1	1000	COMPUTER EQUIPMENT	30
30	1	COMPUTER EQUIPMENT	1000	1	17		2000	18	1	1000	COMPUTER EQUIPMENT	30
201	1	QUADPLEX OUTLET	500	1	19	2500		20	1	1000	COMPUTER EQUIPMENT	30
201	1	QUADPLEX OUTLET	500	1	21	1000		22	1	500	QUADPLEX OUTLET	30
201	1	QUADPLEX OUTLET	500	1	23		1000	24	1	500	QUADPLEX OUTLET	30
201	1	QUADPLEX OUTLET	500	1	25	1000		26	1	500	QUADPLEX OUTLET	30
50	1	AC/24	3248	27		3222		28	1	1424		30
3	1		3248	1	29		3222	30		1424	AC/16	
			3248	3	31	3248		32				
50	1	AC/28	3248	33		3248		34				
			3248	1	35		3248	36				
			3248	37	37	3248		38				
				39				40				
				41				42				
PHASE TOTALS		15816	14740	14720						125.82	AMPS.	

PHASE TOTALS 15816 14740 14720 125.82 AMPS.

PANEL SCHEDULE "P"

MOUNTING: FLUSH		AMPS: 200		MAIN: LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4	
BRKR		CIRC. WATTS	INSTR. LUG	CIRC. NO.	PHASE			CIRC. LUG	INSTR. REC.	CIRC. WATTS	BRKR
A	P				A	B	C				A
201	1	COPIER 100	1500	1	3	2400		2	5	900	OUTLETS 100, 101
201	1	GATE OPERATOR	750	1	3	1650		4	5	900	OUTLETS 101, 102
201	1	OUTLETS 100	900	5	5		1800	6	5	900	OUTLETS 102, 103, 104
201	1	OUTLETS 103, 104	900	5	7	1800		8	5	900	OUTLETS 103, 104
201	1	OUTLETS 100, 101	900	5	9	1800		10	5	900	OUTLETS 106, 107
201	1	OUTLETS 100, 101	1080	6	11		1500	12	1	500	TELEPHONE
201	1	OUTLETS 100, 102, 101	1080	6	13	1480		14	1	400	WATER HEATER / C/P1
201	1	OUTLETS COUNTER 130	900	5	15		2400	16	1	1500	COPIER 133
201	1	MICROWAVE 130	1250	1	17			18	5	900	OUTLETS 100, 114, 133
201	1	DISPOSAL 130	500	1	19	1400		20	5	900	OUTLETS 100, 116
201	1	DISHWASHER 130	1000	1	21		1400	22	5	900	OUTLETS 130, 131
201	1	MICROWAVE 130	1250	1	23			24	2	1500	REFRIGERATORS 130
201	1	MICROWAVE 130	1250	1	25	2150		26	5	900	OUTLETS 111, 115, 116, 135, 128
201	1	VENDING MACHINE 130	1250	1	27	2150		28	5	900	OUTLETS 100, 111, 131
201	1	VENDING MACHINE 130	1250	1	29		2150	30	5	900	OUTLETS 114, 113, 112, 111
201	1	COPIER III	1500	1	31	2400		32	5	900	OUTLETS 111, 131
201	1	COPIER III	1500	1	33	2040		34	3	540	OUTLETS COUNTER 136
201	1	OUTLETS 123, 136	900	5	35		1440	36	3	540	OUTLETS COUNTER 136
201	1	OUTLETS 123	900	5	37	1400		38	1	800	LIGHTING CONTROL PANEL
201	1	OUTLETS 123, 122	900	5	39	1500		40	1	400	WATER HEATER / C/P2
201	1	OUTLETS 123, 126, 134	720	4	41		1470	42	1	1250	MICROWAVE 130
PHASE TOTALS		13020	13240	13940						11.41	AMPS.

PHASE TOTALS 13020 13240 13940 11.41 AMPS.

PANEL SCHEDULE "M"

MOUNTING: FLUSH		AMPS: 600		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4	
BRKR		CIRC. WATTS	SEC. LUG	CIRC. NO.	PHASE		CIRC. LUG	SEC. LUG	CIRC. WATTS		BRKR
A	P				A	B	C			A	P
50	1	3536	1	1	6836		2	1	3248	AC/1	50
50	1	3536	1	3		6836	4	1	3248		50
50	1	3536	1	5			6	1	3248		50
10	3	5733	7	4371			8	1	3536	AC/3	50
50	1	5733	9		4371		10	1	3536		50
50	1	5733	11			4371	12	1	3536	AC/3	50
50	1	3536	13	7076			14	1	3536	AC/4	50
50	1	3536	15		7076		16	1	3536		50
50	1	3536	17			7076	18	1	3536	AC/4	50
10	3	5733	19	4271			20	1	3536	AC/10	50
50	1	5733	21		4271		22	1	3536		50
50	1	5733	23			4271	24	1	3536	AC/10	50
201	1	400	5	25	5718		26	5	5218	AC/11	40
40	1	2814	27	29		8037	28	1	5218		40
40	1	2814	29		8037		30	1	5218	AC/11	40
40	1	2814	31	5636			32	1	2814	AC/12	40
201	1	120	4	33	3534		34	1	2814		40
201	1	1200	4	35		4014	36	1	2814	AC/12	40
201	1	500	1	37	3248		38	1	3248	AC/13	50
201	1			39		3248	40	1	3248		50
				41			42	1	3248	AC/13	
				49			50	1	3248		
PHASE TOTALS		47100	47420	47400					328.41	AMPS.	

PHASE TOTALS 47100 47420 47400 328.41 AMPS.

PANEL SCHEDULE "PA"

MOUNTING FLUSH		AMPS: 100		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4	
BRKR		CIRC WATTS	SEC. LUG	CIRC NO.	PHASE			CIRC LUG	SEC. LUG	CIRC WATTS	
A	P				A	B	C				B
201	1	PARTITION	1250	1	1	2500		2	1	1250	PARTITION
201	1	PARTITION	1250	1	3		2500	4	1	1250	PARTITION
201	1	PARTITION	1250	1	5			6	1	1250	PARTITION
201	1	PARTITION	1250	1	7	2500		8	1	1250	PARTITION
201	1	PARTITION	1250	1	9		2500	10	1	1250	PARTITION
201	1	PARTITION	1250	1	11			12	1	1250	PARTITION
				13	1250			14	1	1250	PARTITION
				15		1250		16	1	1250	PARTITION
				17				18			
				19				20			
				21				22			
				23				24			
PHASE TOTALS				6250		6250	5000	48.63		AMPS.	

PHASE TOTALS 6250 6250 5000 48.63 AMPS.

PANEL SCHEDULE "G"

MOUNTING FLUSH		AMPS: 200		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4	
BRKR		CIRC. WATTS	SEC. LUG	CIRC. NO.	PHASE		CIRC. NO.	SEC. LUG	CIRC. WATTS		BR
A	P				A	B	C				
30	1	1420	1	1	4416			2	1	2446	TEST VAN
30	1	1420	1	3	4416			4	1	2446	
30	1	1420	1	5		4416	6	1	2446	TEST VAN	
201	1	900	5	7	3346			8	1	2446	
201	1	540	3	9	3036			10	1	2446	
201	1	250	1	11		2746		12	1	2446	TEST VAN
201	1	250	1	13	2896			14	1	2446	
201	1	250	1	15		2746		16	2446		
201	1	250	1	17			450	18	1	200	UNIT HEATER
201	1	250	1	19	2710			20	1	1420	EVAP. COOLER
201	1	250	1	21		740		22	4	120	OUTLETS - GARAGE
201	1	540	3	23				24			
				25				26			
				27				28			
				29				30			
				31				32			
				33				34			
				35				36			
				37				38			
				39				40			
				41				42			
PHASE TOTALS		12728	10878	8152						88.26	AMPS.

PHASE TOTALS 12728 10878 8152 88.26 AMPS.

LOAD CALCULATION

PANEL "L"	27.38 KW
PANEL "G"	31.75 KW
PANEL "C"	45.28 KW
PANEL "P"	40.11 KW
PANEL "PA"	20.00 KW
PANEL "M"	132.17 KW
25% FUTURE	13.11 KW
- TOTAL -	369.81 KW

$$\frac{369.81 \times 1000}{\sqrt{3} \times 208} = 1027.70$$

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE – LIGHTING		(Part 1 of 4)	LTG-1-C
PROJECT NAME: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT		DATE: 12/11/2007	
PROJECT ADDRESS: BAKERSFIELD, CALIFORNIA		Building permit#	
PRINCIPAL DESIGNER: DARRIEL PATRAS ELECTRICAL CONTRACTOR		CLIENT/UTILITY INFORMATION: Agency Use	
TELEPHONE: (209) 632-6196			
DOCUMENTATION AUTHORITY: KRISTY PATRAS		TELEPHONE: (209) 632-6196	
GENERAL INFORMATION			
DATE OF PLANS: 11/15/2007		BUILDING CONDITIONED FLOOR AREA: 18,000	
BUILDING TYPE: Q3 UNCONDITIONED SPACE		☒ NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL/HOTEL QUEST	
PHASE OF CONSTRUCTION: Q2 NEW		☐ ADDITION/OUTDOOR SIGNS ☐ ALTERATION	
METHOD OF LTG. COMPLIANCE:			
☐ PERFORMANCE ☒ COMPLETE BUILDING ☐ AREA CATEGORY ☐ DETAILOR ☐ COMMON LIGHTING			
STATEMENT OF COMPLIANCE			
The Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, part 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.			
The documentation preparer hereby certifies that the documentation is accurate and complete.			
DOCUMENT AUTHORITY: KRISTY PATRAS		SIGNATURE:	
		DATE: 04/01/08	
The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with all other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in section 110, 115, 120 through 130, and 146, 148, & 149 of TITLE 24, PART 6.			
☐ The plans & specifications meet the requirements of part 6 (Sections 10-103a), ☐ The installation certificates meet the requirements of part 6 (10-103a, 130).			
☐ The operation & maintenance information meets the requirements of part 6 (10-103c).			
☐ Please check one: These sections of business and professions code are printed in full in the Nonresidential Manual.			
☐ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; I am a licensed in the state of California as a civil engineer, or electrical engineer, or I am a licensed architect.			
☒ I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5557.2 or 6737.3; the Business and Professions Code to sign this document as the person responsible for its preparation and that I am a licensed contractor preparing documents for work that I have contracted to perform.			
☐ I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to business and professions code sections 5557.2(5)(c), and 6737.1.			
PRINCIPAL LIGHTING DESIGNER NAME: KRISTY PATRAS		SIGNATURE:	
		LIC. NO.: 348403	
		DATE: 04/01/08	
LIGHTING MANDATORY MEASURES			
QD Indicate location on plans of Note Book Measures. E1			
LIGHTING COMPLIANCE FORMS & WORKSHEETS (CHECK BOX IF WORKSHEET IS INCLUDED)			
☒ LTG-C-1, PARTS 1 of 4 & 2 of 4		Certificate of Compliance, Part 1 of 4 and 2 of 4 are required for all subdivisions.	
☒ LTG-C-2, PART 3 of 4		Certificate of Compliance, Part 3 of 4 submitted is required only if Control Credits are claimed.	
☒ LTG-C-3, PART 4 of 4		Certificate of Compliance, part 4 of 4 submitted is required when lighting controls are installed.	
☐ LTG-C-4		Indoor lighting schedule.	
☐ LTG-C-5		Portable lighting worksheet.	
☐ LTG-C-6		Lighting controls check worksheet.	
☐ LTG-C-7		Indoor lighting power allowance.	
☐ LTG-C-8		Tailored method worksheet.	
☐ LTG-C-9		Room cavity ratio worksheet.	
☐ LTG-C-10		Common lighting systems method worksheet.	
☐ LTG-C-11		Line voltage track lighting worksheet.	
☐ LTG-C-12		Signage.	
☐ LTG-C-13		Signage.	
☐ LTG-C-14		Signage.	
☐ LTG-C-15		Signage.	
☐ LTG-C-16		Signage.	
☐ LTG-C-17		Signage.	
☐ LTG-C-18		Signage.	
☐ LTG-C-19		Signage.	
☐ LTG-C-20		Signage.	
☐ LTG-C-21		Signage.	
☐ LTG-C-22		Signage.	
☐ LTG-C-23		Signage.	
☐ LTG-C-24		Signage.	
☐ LTG-C-25		Signage.	
☐ LTG-C-26		Signage.	
☐ LTG-C-27		Signage.	
☐ LTG-C-28		Signage.	
☐ LTG-C-29		Signage.	
☐ LTG-C-30		Signage.	
☐ LTG-C-31		Signage.	
☐ LTG-C-32		Signage.	
☐ LTG-C-33		Signage.	
☐ LTG-C-34		Signage.	
☐ LTG-C-35		Signage.	
☐ LTG-C-36		Signage.	
☐ LTG-C-37		Signage.	
☐ LTG-C-38		Signage.	
☐ LTG-C-39		Signage.	
☐ LTG-C-40		Signage.	
☐ LTG-C-41		Signage.	
☐ LTG-C-42		Signage.	
☐ LTG-C-43		Signage.	
☐ LTG-C-44		Signage.	
☐ LTG-C-45		Signage.	
☐ LTG-C-46		Signage.	
☐ LTG-C-47		Signage.	
☐ LTG-C-48		Signage.	
☐ LTG-C-49 </			

[illegible]

PERMITTEE OF COMPLIANCE		Part 4 of 4		LTG-1-C	
PROJECT NAME: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT		DATE: 12/14/2007			
DESIGNER: This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The installer designates the location in the Appendix of the Nonresidential AIA Manual that describes the test. Also indicate the person responsible for performing the test's (i.e. the installing contractor, design professional or an agent selected by the owner). Since the time from will be part of the plan, completion of the section will allow the responsible party to budget for the scope of work appropriately.					
BUILDING DEPARTMENTS: System Acceptance: Before an occupancy permit is granted for a newly constructed building or space, or new space-conditioning system serving a building or space is operated for public use, all control devices serving the building or space shall be certified as meeting the acceptance requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department.					
A. Certificate plans, specifications, installation certificates, and operating and maintenance information meet the requirements of § 10-103(b) and this 24 part G.					
TEST DESCRIPTION				TEST PERFORMED BY:	
☒ LTG-2--An LIGHTING CONTROL ACCEPTANCE DOCUMENT OCCUPANCY SENSOR ACCEPTANCE MANUAL DAYLIGHT CONTROL'S ACCEPTANCE AUTOMATIC THE SWITCH CONTROL ACCEPTANCE "LCP" EQUIPMENT REQUIRING ACCEPTANCE TESTING _____				MANUFACTURER _____	
☐ LTG-3--An AUTOMATIC DAYLIGHTING CONTROLS ACCEPTANCE DOCUMENT EQUIPMENT REQUIRING ACCEPTANCE TESTING _____				_____	
_____				_____	
_____				_____	
_____				_____	

Nonresidential Compliance Form
September 2005

[illegible][illegible][illegible]

DARRALE PATRIS
ELECTRICAL CONTRACTOR INC.
2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA. 95381

Darale Patris

signed: _____
(204) 632-6196

LIC. NO. 348403

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