NEW HOLDING CELL PROJECT

Superior Court of Kern County
Delano / North Kern Court
1122 Jefferson Street
Delano, California 93215

BLDG ID # 15-D1
SWO #1027073

PROJECT DATA

PROJECT DESCRIPTION:	Remodel of existing office space to create two new holding cells and access/egress hallway; construction of new exterior sally port.
ADDRESS:	1122 Jefferson Street, Delano, CA 93215
APM:	Book 038, Page 370
SITE AREA:	127,748 S.F.
BUILDING AREA:	14,990 S.F.
CBC CONSTRUCTION TYPE:	TYPE V̲A
CBC OCCUPANCY:	B (OFFICE), A-3 (ASSEMBLY), I-3 (HOLDING)
AREA OF REMODELING:	285 S.F. (CELLS)
AREA OF NEW CONSTRUCTION:	316 S.F. (SALLYPORT)

GENERAL NOTES

1. All work shall comply with the minimum standards of the following codes:
   - California Building Code, 2007 Edition
   - California Plumbing Code, 2007 Edition
   - California Mechanical Code, 2007 Edition
   - California electrical Code, 2007 Edition
   - California Code of Regulations Title 24
   - Americans with Disabilities Act
   - All accumulative supplements to the above codes
   - All applicable standards, ordinances and regulations of the agencies with jurisdiction over the work
2. The Contractor shall verify all existing conditions for dimension, grade, configuration, and other aspects of compatibility with the work described in these Construction Documents. Any conditions which interfere with the work shall immediately be brought to the attention of the Architect and the work shall not proceed in the areas of conflict until such conflicts have been resolved.
3. Written dimensions shall take precedence over drawing scale or proportion.

DIRECTORY

OWNER:
SUPERIOR COURT OF CALIFORNIA
% JUDICIAL COUNCIL OF CALIFORNIA,
ADMINISTRATIVE OFFICE OF THE COURTS
2860 GATEWAY OAKS DRIVE
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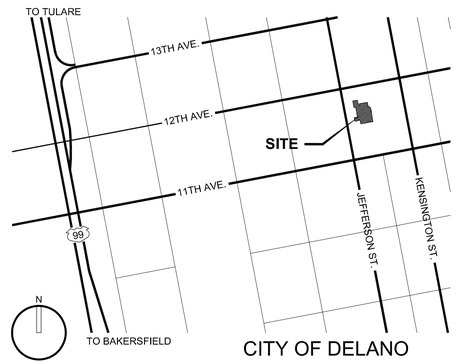
SHEET INDEX

VICINITY MAP



PROJECT
NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST. DELANO, CALIFORNIA

CLIENT JOB # 1027073
ARCHITECT JOB # 1002

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

DRAWN BY BS

DATES
07-07-10
09-10-10
10-18-10 PLAN CHECK 1
11-23-10 PLAN CHECK 2
01-05-11 PLAN CHECK 3

SIGNED

LICENSED ARCHITECT
BRUCE DOUGLAS FRASER
C 9787
EXPIRES 12-31-2013
STATE OF CALIFORNIA

SHEET TITLE
TITLE SHEET

SCALE : NONE

SHEET #
T.1

DELANO HOLDING CELL PROJECTS
ADMINISTRATIVE OFFICE OF THE COURTS

05/26/10

DIVISION 1: GENERAL

01000 DESCRIPTION OF THE WORK
Work under this contract provides for demolition and new construction associated with holding cells and exterior sally port. The project is located at 1122 Jefferson Street, Delano, California.

01010 DEFINITIONS
Throughout these drawings and specifications, the following definitions apply:
A. "Owner" or "Owner's Representative" shall refer to the Superior Court of California, or any of the Court's or Administrative Office of the Court's specifically assigned representatives.
B. "Contractor" shall refer to Chamblin-Landes Construction and any subcontractor who, by contract with or employment by the Owner, is responsible for the execution of some portion of the work.
C. "Architect" shall refer to Fraser Seiple Architects, or any of their specifically assigned project staff.
D. "Engineer" shall refer to any engineering consultant specifically referenced in a given note or section of these specifications.

01100 SPECIAL PROJECT PROCEDURES
Contractors shall make every effort to protect existing improvements, neighboring property and construction in place as the work progresses. Any damage to such existing improvements, neighboring property, or construction resulting from acts of a Contractor shall be repaired to the satisfaction of, and at no additional cost to, the Owner.

Contractors shall control the spread of dust to the public right-of-way in compliance with Delano City requirements.

Construction activities are limited to the hours of 6:00 p.m. through 12:00 a.m., Monday through Friday, or 7:00 a.m. through 6:00 p.m., Saturday and Sunday, unless other arrangements are made with the Court in advance.

Solid waste generated during construction shall be gathered and removed from the site in compliance with Delano City requirements. Cleaning of concrete, plaster and similar material containers or tools shall not produce runoff that leaves the property or enters the storm drainage system. Every effort shall be made to recycle waste produced by construction.

01330 SUBMITTALS
Shop drawings, samples, and product data submittals shall be made as described in individual sections of these specifications for review prior to the ordering or delivery of materials to the jobsite. Submittals shall be transmitted to the Architect in the quantities required for the Contractor's use plus one for the Architect's records.

01400 TESTING AND INSPECTION
Contractors are not required to provide laboratory testing in connection with construction; however, any Contractor shall schedule and cooperate with any testing or field inspection required by the specifications, the Architect, applicable building codes, or the Administrative Office of the Courts inspectors, and shall replace or correct work which fails to meet the requirements of the specifications when tested.

01600 SUBSTITUTIONS AND ALTERNATES
Substitutions or alternates to the materials, assemblies, or products described in the drawings and specifications will be acceptable only if approved in advance by the Owner.

01700 CLOSEOUT PROCEDURES
At the completion of construction the Contractor shall deliver to the Owner copies of operation and maintenance manuals, spare parts lists, guarantees and warranties for products and equipment installed in the work, as well as as-built drawings indicating the location of any concealed installations that vary from the position and alignment indicated on working drawings.

The Contractor shall provide demonstration or instruction to the Owner's representative(s) for building equipment and systems.

DIVISION 2: SITE WORK

02050 DEMOLITION
Demolition shall be as described on the drawings, and as necessary to accommodate new installations.

Temporary barricades shall be erected and maintained to keep members of the public at a safe distance from demolition and construction operations. Existing construction and items to remain shall be protected.

The contractor shall immediately notify Owner's Representative of contaminated, hazardous, or potentially dangerous materials encountered; proceed with removal and disposal as directed.

02200 EARTHWORK
Soil in the area of new footings and plumbing trenches shall be excavated to a minimum of 12" below the bottom of new installations. Moisture condition and compact non-expansive granular fill material at footings to approximately the same density as existing subgrade. Assumed bearing is 2,000 psi. See additional notes on structural drawings.

Bedding and backfilling at new below-grade plumbing installations shall comply with notes on mechanical/plumbing drawings.

02513 ASPHALTIC CONCRETE PAVING
Patch and level asphaltic paving as required in the area of new work adjacent to the sallyport enclosure. Paving shall comply with materials and installation requirements of CalTrans Standard Specifications.

02515 CONCRETE PAVING AND SITEWORK
Except as otherwise indicated in the drawings, concrete walks, landings, steps, and other flatwork shall be 4 inches thick, reinforced with #3 bars at 24 inches each way, placed over compacted, granular base. Finish shall be light/medium broom at unless noted otherwise on drawings.

DIVISION 3: CONCRETE

03300 CAST IN PLACE CONCRETE
Concrete footings and slab shall be configured and reinforced as indicated in the drawings, and shall meet the requirements of Structural Notes on the structural drawings. Concrete strength testing required. Concrete materials shall be as specified in structural notes and as follows:

Cement: Portland Type II, per ASTM C150
Fine Aggregate: per ASTM C33
Course Aggregate: per ASTM C535
Water: clean, potable, free of contaminants
Reinforcing Steel: intermediate (Grade 40) bars per ASTM A615
Admixtures: none specified

03600 GROUT
Cementitious grout for concrete anchoring and patching shall be high strength, non-shrinking; Burkestone or equivalent. Product data submittals are required.

DIVISION 4: MASONRY

04220 CONCRETE UNIT MASONRY
New concrete block walls shall be configured and reinforced as indicated in the drawings and structural notes. Materials shall be as follows:

Concrete Block: "Precision" units per ASTM C90, in sizes indicated in drawings, natural gray color
Mortar: per ASTM C270, Type S
Grout: per ASTM C94, minimum 2,000 psi strength at 28 days
Reinforcing Steel: intermediate (Grade 40) bars per ASTM A615

DIVISION 5: METAL

05500 MISCELLANEOUS METALS
Metal fabrications for this work include, but are not limited to structural framing and wire cloth at sallyport, handrails at sallyport, privacy screens in cells, wrought iron gate at sallyport and structural welding and bolting. Shop drawings are required for structural components and must receive Architect's approval prior to fabrication. Materials shall be as follows:

Structural Steel: per ASTM A36
Stainless Steel: per ASTM T304
Primer: red iron oxide per FS TT-P-31
Galvanizing: zinc galvanized coating per ASTM A123, A153, and A386
Welding Materials: per AWS D1.1
Woven Wire Cloth: McNichols plain weave 0.135, 2 mesh, pre-galvanized steel with M-2 hookstrip edge or equivalent
Wrought Iron Gate: Master Halco Monumental Iron Works "Imperial" swing gate with all required accessories, mounting hardware, and hardware preparation or equivalent, prefinished in color as selected by Architect

Structural welding shall only be performed by certified journeyman welders. All exposed-to-view cuts and welds shall be deburred and ground smooth and even. Exposed-to-weather metal fabrications shall be made in the largest pieces manageable and primed, galvanized, or powder coated prior to delivery to the project site.

DIVISION 6: WOOD AND PLASTIC

06100 ROUGH CARPENTRY
Lumber strength, grading requirements and connector requirements shall be as indicated in Structural Notes on the structural drawings:

Beams, girders, and posts: DF-L No. 1 or better joists, rafters, headers, plates, blocking, 2 X 6 thru 4 X 16, and misc. wood not specifically described: DF-L NO. 2 or better
Wall framing, 2 X 2 thru 4 X 6 (except headers): DF-L Stud grade or standard and better
Sheathing: Plywood conforming to U.S. Product Standard PS-1-83, Group 1 or 2, or APA Performance Rated Panels (plywood, composite board, oriented strand board). Roof or wall sheathing plywood shall bear the designation CDX Structural II or better.

All framing shall be laid out accurately to the line and dimension shown on the drawings. Notching of studs and joists is not allowed; boring of studs and joists to accommodate plumbing or electrical installations is subject to the approval of the Structural Engineer. Provide all backing, blocking, stripping, furring, false framing, and other miscellaneous support to allow the work of other trades to proceed. Where shear panels do not cover the full extent of wall surface, provide additional sheathing or furring to create a continuous substrate for finishes.

DIVISION 7: THERMAL AND MOISTURE PROTECTION

07200 BUILDING INSULATION
Exterior wall insulation shall be kraft faced fiberglass batts, stapled to framing members; interior wall sound insulation shall be unfaced fiberglass batts, friction fit between framing members and wired as necessary. Design is based on the products of Owens-Corning Company Fiberglas Corporation. Product data and test result submittals are required. Materials shall be as follows:

3-1/2" Sound Insulation: per ASTM C423
5-1/2" Thermal Wall Insulation: per ASTM C665
Flammability of Materials: per ASTM E136
Fire Classifcation (Class A): per UL Standards 790, 1256

07270 FIRESTOPPING
Provide fire retardant insulation, manufactured fire barrier systems, fire caulking and sealant, firestopping systems, and related materials as required to maintain the continuity and integrity of fire rated assemblies in new construction, particularly at annular spaces around penetrations; Hilti "Firestop" or 3M "Fire Barrier" products or equivalent, with any primers or accessories recommended by manuracturer. Product submittals are required.

07610 METAL ROOFING
Metal roofing at sallyport roof shall be exposed-fastener, prefinished structural metal panels; MBCI "PBU" or "7.2 Panel" profile, minimum 26 gauge, with "Signature 200" finish in color as selected by Architect from standard range. Provide all fasteners, accessories, trims, and flashings as required for a complete and watertight installation. Install metal roofing over light steel supports per drawings.

07900 CAULKING AND SEALANTS
Caulking and sealants which match the color of adjacent surfaces shall be used as indicated in the drawings and additionally as required to prevent the entry of water or outside air into exterior assemblies, and in bathrooms to control the penetration of moisture. Caulking materials shall be chosen for specific applications as recommended by the manufacturers and backing rods shall be applied where appropriate; caulking beads shall be clean, slightly concave, and excess material shall be immediately cleaned from adjacent surfaces. Materials shall be as follows:

Polysulphide Sealant: Morton-Thiokol or equivalent
Acrylic Emulsion Latex: Red Devil or equivalent
Butyl Sealant: Red Devil or equivalent
Silicone Sealant: General Electric or equivalent
Polyurethane Sealant: Sonneborn or equivalent
Use of Latex Sealing Compound: per ASTM C790
Use of Solvent-Release Type Sealants: per ASTM C804
Sealing Compound: Elastomeric Type, Multi-Component: per FS TT-S-00227
Sealing Compound: Elastomeric Type, Single Component: per FS TT-S-00230
Sealing Compound, Silicone Rubber Base: per FS TT-S-001543
Sealant and Caulking Guide Specification: per SWI (Sealing and Waterproofers Institute)

DIVISION 8: WINDOWS AND DOORS

08100 METAL DOORS AND FRAMES
Rated metal doors and frames shall be provided as indicated in the Door Schedule. Design is based on the following materials and manufacturers:

Interior and Exterior Passage Doors: flush panel primed, rated 18 gauge steel; Republic DM series or equivalent.
Interior and Exterior Passage Door Frames: mitered primed, rated 16 gauge steel; Republic MG series or equivalent.
Interior Holding Cell Doors/Frames: internally reinforced steel doors and frames, primed and factory prepared for hardware and custom view lites; Trussbilt Detention Security doors and frames or equivalent.
Plumbing Chase Frames: mitered primed, non-rated 18 gauge steel; Republic MG series or equivalent.

Shop drawing and product data submittals are required

08200 WOOD DOORS
Interior non rated solid core wood doors at plumbing chases shall be provided in the configurations shown in the Door Schedule. Design is based on the following materials and manufacturers:

Flush Panel Interior Doors: stain grade hardwood over solid particle board or lumber core (solid core); Eggers Industries or equivalent MDF faced

Product data and sample submittals are required. All doors shall be adjusted to close easily and fit snugly in frames. Wood doors shall be per the following guidelines:

ANSI/NWMA I.S.1: Industry Standard For Wood Flush Doors
WIC Manual: "Premium" grade; Section 12 Architectural Wood Doors

08700 FINISH HARDWARE
Unless otherwise noted, door hardware finishes shall be US26D dull or brushed chrome. All final hardware selections are subject to the Architect's approval; product data and materials list submittals require approval before hardware is ordered. Specific door hardware components shall be as described in the Door Hardware schedule. Opening hardware is to be centered between 30" and 44" above finished floor.

Finish hardware shall be per the following guidelines:

ANSI A117.1, CAC Title 24, U.S. Dept. of Justice 28 CFR Part 36 (ADA) - Specifications for Making Buildings and Facilities
Accessible to and Usable by Physically Handicapped People
AWI: Architectural Woodwork Institute
BHMA: Builders' Hardware Manufacturers Association
DHI: Door and Hardware Institute
NFPA 101: Life Safety Code
Underwriters Laboratories Inc.: applicable reports

08800 GLASS AND GLAZING
Window glass at the interview room and door glass in cell doors shall be glass-clad polycarbonate, clear, with a minimum protection level of 2, Pacific Bulletproof Company product PBBRGCPC2 or equivalent. Product data and submittals are required.

Glass and glazing shall be per the following guidelines:

ASTM C1349 - 04 Standard Specification for Architectural Flat Glass Clad Polycarbonate

ANSI Z97.1: Safety Performance Specifications and Methods of Test for Safety GlazingMaterial Used in Buildings
"Manual of Glazing" of the Flat Glass Marketing Association

DIVISION 9: FINISHES

09100 LATH AND PLASTER
Exterior building surface patches shall be finished with three coat Portland cement plaster in a dense finish to match the existing adjacent finish. Product data submittals and mockup required. Materials shall be as follows:

Lath: 2 layers Grade D paper; wire lath at vertical surfaces; Western Metal Lath or equivalent
Lath: 2 layers Grade D paper; expanded metal rib lath at horizontal surfaces; Inland Ryerson rib lath or equivalent
Screeds, Moldings, and Accessories: Western Metal Lath Company or equivalent
Cement: Portland cement per ASTM C150, Type 1
Lime: dry hydrated lime per ASTM C206, Type S
Sand: clean, graded sand per ASTM C144
Water: clean, potable water
Integral Color Additive: La Habra or equivalent
Texture/Finish: Smooth, flat steel-troweled

Lath and plaster shall be per the following guidelines:

Federal Specification UU-B-70: building paper, stucco lath
"Lathing and Plastering Data Guide and Reference Specifications," by the Southern California Plastering Institute

09250 GYPSUM DRYWALL
Gypsum drywall shall be installed as indicated in the Finish Notes and details. Product data and materials list submittals required. Materials shall be as follows:

Gypsum Panels at Ceilings and walls: 5/8" panels; U.S. Gypsum or equivalent
Accessories: galvanized steel corner reinforcement at outside corners in bullnose profile at vertical corners and square profile at horizontal corners, fiberglass web at bridging conditions; U.S. Gypsum or equivalent.
Texture: Level 4, flat/smooth.

Finish texture is subject to Tenant and Architect approval of a field sample. Gypsum drywall shall be per the following guidelines:

Gypsum Association publication GA 216.
ASTM C 36.
ASTM C 475.

09900 PAINTING
Paint and related coatings shall be applied as indicated in the drawings. Paint products shall be Sherwin Williams or equivalent, as approved by the Architect. Surface preparation, application and total mil thickness shall be as recommended by the paint or coating manufacturer for the subject surface.

Exterior concrete block walls: Low VOC water based block sealer
Interior cell walls and ceilings: low VOC water based block sealer, high-build catalyzed, water based epoxy, semi-gloss texture
Interior walls and ceilings, other: low VOC sealer/primer, two coats low VOC acrylic latex wall paint, semi-gloss texture
Interior metal trim: low VOC high hiding metal primer, two coats water based alkyd acrylic enamel, semi-gloss texture
Paint grade interior wood doors: low VOC high hiding wood primer, two coats water based acrylic latex trim paint, semi-gloss texture
Exterior exposed metals: industrial metal primer, two coats low VOC industrial alkyd acrylic enamel paint, semi-gloss texture
Floors: high-build industrial filler/primer and high-solids institutional epoxy coating, solid color with integral aggregate, semi-gloss texture

Colors shall be as selected by the Architect.

Product data, materials list and brushout submittals required. Painting shall be per the following guidelines:

ANSI/ASTM D16: Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products
ASTM D2016 - Test Method for Moisture Content of Wood

DIVISION 10: SPECIALTIES

10100 PRIVACY SCREENS
Privacy screen panels shall be color-thru solid HDPE panels mounted to custom stainless steel frames per details; Santana or equivalent, in standard color as selected by the Architect

10400 SIGNAGE
Identifying and direction signage shall be installed at walls as described in drawings. Wall mounted interior and exterior room identification and accessible exit signs shall be Scott Sign Systems engraved photopolymer plaque signs or equivalent, with Grade 2 Braille where required . Vinyl accessibility symbols shall be applied to glass surfaces: Scott Sign Systems or equivalent. Product data, shop drawings and sample submittals required.
Signage shall comply with Cal access requirements per CBC 1117B.5.

DIVISION 11: EQUIPMENT

11100 DETENTION EQUIPMENT
Cell benches shall be floor mounted 11 ga. stainless steel benches on 2" diameter powder coated steel pipe posts and 6" x 6" square mounting plates, as manufactured by Bob Barker Company or equivalent. Lay out per drawings and mount with stainless steel security bolts into wedge anchors per manufacturer's recommendations. Seats shall have smooth, rounded edges and corners compliant with California Title 24, Part I, Section 13-102 and Part 2, Section 470A standards.

Cell mirrors shall be highly polished stainless steel in 16 ga. chrome steel frames, with rounded corners and tamper resistant fasteners, as manufactured by Bob Barker Company or equivalent. Mirror dimensions shall be 12-1/2" wide x 16-1/2" tall; mount above comby toilet/sink with bottom edge no more than 40" above the floor.

DIVISION 12: FURNISHINGS

(not used)

DIVISION 13: SPECIAL CONSTRUCTION

(not used)

DIVISION 14: VERTICAL TRANSPORTATION

(not used)

DIVISION 15: MECHANICAL SYSTEMS

15300 FIRE PROTECTION SYSTEM
The building fire sprinkler system shall be per NFPA standard 13; product data, hydrostatic calculations and shop drawing submittals are required. Materials shall be as follows:

Piping: Black iron per approved shop drawings.
Holding cell heads: Viking Institutional style flush or equivalent.
Public view heads: Viking Mirage concealed or equivalent.
Utility room heads: Viking standard pendent or equivalent.

15400 PLUMBING
Plumbing fixtures require product data submittals. Piping systems inside building require as-built drawings. Materials shall be as listed in notes on mechanical / plumbing drawings.

15600 HEATING, VENTILATING, AND AIR CONDITIONING
Extension of existing space conditioning system will require product data submittals and as-built drawings. Materials shall be as listed in schedules and notes on mechanical / plumbing drawings.

DIVISION 16: ELECTRICAL SYSTEMS

16400 ELECTRICAL SERVICE
Extension of building electrical service and switchgear shall be 120/208 volt, 3 phase, as described on electrical drawings and in electrical notes. Distribution of power shall be achieved with conventional duplex wall outlets, isolated ground where required. As-built drawings required.

16500 LIGHTING
Light fixtures and switching shall be provided as indicated on the drawings and in the Light Fixture Schedule; alternatives to the specified light fixtures require the Architect's and Tenant's approval of submittal materials. All light fixtures shall have manufacturer's recommended lamp installed, chosen for consistent color temperature throughout the installation and per CCR Title 24. Materials shall be as described in light fixture schedule.

16720 ALARM SYSTEMS
Extension of the building fire alarm system shall be provided per AOC specification, based on approval of product data, shop drawing submittals provided by the Contractor to the City Fire Department and Building Department. The Contractor shall coordinate the installation of, and provide power to, any intrusion or security alarm systems provided by the Tenant's vendors.

16740 COMMUNICATIONS
Holding cells shall have sound-activated audio monitoring microphones as indicated on electrical drawings, Louroe Electronics Verifact D-V or equivalent, with base station and all required accessories. Extension of the building communication and data infrastructure shall be provided per AOC specifications, based on approval of product data submittals. As-built drawings required.

PROJECT
NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST.
DELANO, CALIFORNIA

CLIENT JOB # 1027073
ARCHITECT JOB # 1002

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

DRAWN BY BS

DATES 07-07-10
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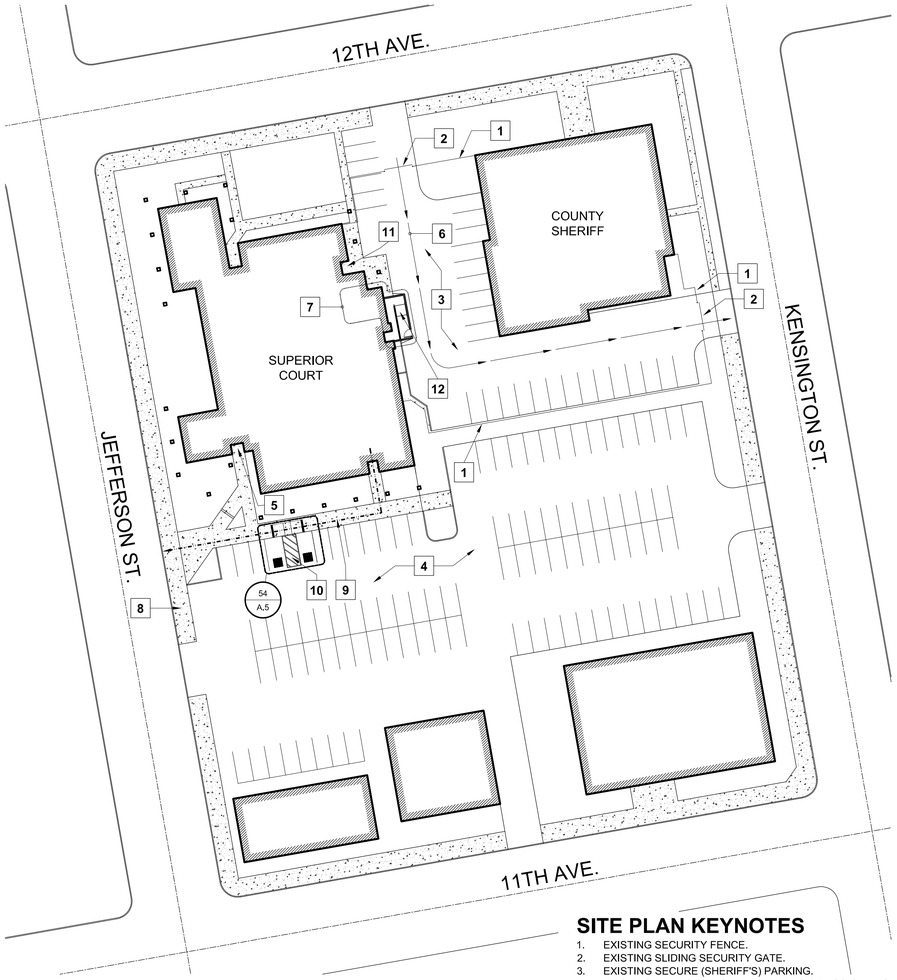
SIGNED

LICENSED ARCHITECT BRUCE DOUGLAS FRASER C 9787 EXPIRES 12-31-2013 STATE OF CALIFORNIA

SHEET TITLE
SPECIFICATIONS

SCALE : NONE

SHEET # T.2



SITE PLAN KEYNOTES

1. EXISTING SECURITY FENCE.
2. EXISTING SLIDING SECURITY GATE.
3. EXISTING SECURE (SHERIFF'S) PARKING.
4. EXISTING PUBLIC AND STAFF PARKING (50 ASSIGNED SPACES).
5. PUBLIC ENTRANCE.
6. IN-CUSTODY TRANSPORT PATH OF TRAVEL.
7. LIMIT OF AREA OF WORK UNDER THIS PROJECT.
8. EXISTING SIDEWALK ("PUBLIC WAY").
9. ACCESSIBLE PATH OF TRAVEL TO PUBLIC WAY: MAX. SLOPE 5% IN DIRECTION OF TRAVEL; MAX.CROSS SLOPE 2% IN ANY DIRECTION.
10. RELOCATE EXISTING VAN-ACCESSIBLE PARKING TO COMPLY WITH ALL REQUIREMENTS OF **DETAIL 54/A.5** .
11. EXISTING ACCESSIBLE LANDING AT EXIT DOOR; NO PATH OF TRAVEL BEYOND SECURE AREA.
12. NEW ACCESSIBLE LANDING AND RAMP AT SALLY PORT DOOR; NO PATH OF TRAVEL BEYOND SECURE AREA.

N

SITE PLAN

SCALE : 1" = 40'

ACCESSIBILITY NOTES

1. The path of travel (P.O.T.) as indicated is a barrier free accessible route at least 48 inches wide without any abrupt vertical changes exceeding 1/2" at 1:2 maximum slope, except that level changes do not exceed 1.4" vertical. Maximum cross-slope 2% typical and maximum slope in the direction of travel is 5% or less, unless otherwise noted. P.O.T. shall be maintained free of overhead obstructions to 80" minimum (CBC1133B8.2) and side objects protruding greater than 4" into P.O.T. between 27 and 80 inches above the finished floor (CBC 1133B8.6).

2. Parking spaces assigned to Delano Division Court building: 50; number of accessible parking spaces provided: 2 (CBC1129B.1).

3. All doors on indicated P.O.T.'s shall comply with applicable provisions of CBC 1133B, including:
   a. The unlatching of any exit door shall not require more than one operation.
   b. All exit doors shall be openable from the inside without the use of a key or any special knowledge.
   c. Accessible door hardware shall be centered between 30 and 44 inches above the finish floor or landing, and shall be operated with single push-pull activating bars or other hardware designed to provide passage without requiring the ability to grasp the opening hardware.
   d. Interior and exterior thresholds shall meet the level change limitations of item #1 above.
   e. On doors that have closers the closer pressure shall not exceed 5 pounds for interior doors or 8.5 pounds for exterior doors.
   f. The bottom 10 inches of all accessible doors shall have a smooth uninterrupted surface to allow the door to be opened by a wheelchair footrest.
   g. Provide a level and clear landing on both sides of accessible doors, a minimum of 60" deep on the pull side and 48" deep on the push side, and extending a minimum of 18" beyond the latch jamb on the pull side of interior doors (24" at exterior doors), and a minimum of 12" beyond the latch jamb on the push side, unless the door is not equipped with a latch and closer.

SIGNAGE GENERAL NOTES

A. All new signage shall comply with the provisions of CBC 1117B.5 for finish and contrast, proportions, character height, the use of raised characters/images, the application of Grade 2 Braille, and mounting location/height.

B. The height to the center of signs shall be 60" above the finish floor unless otherwise noted.

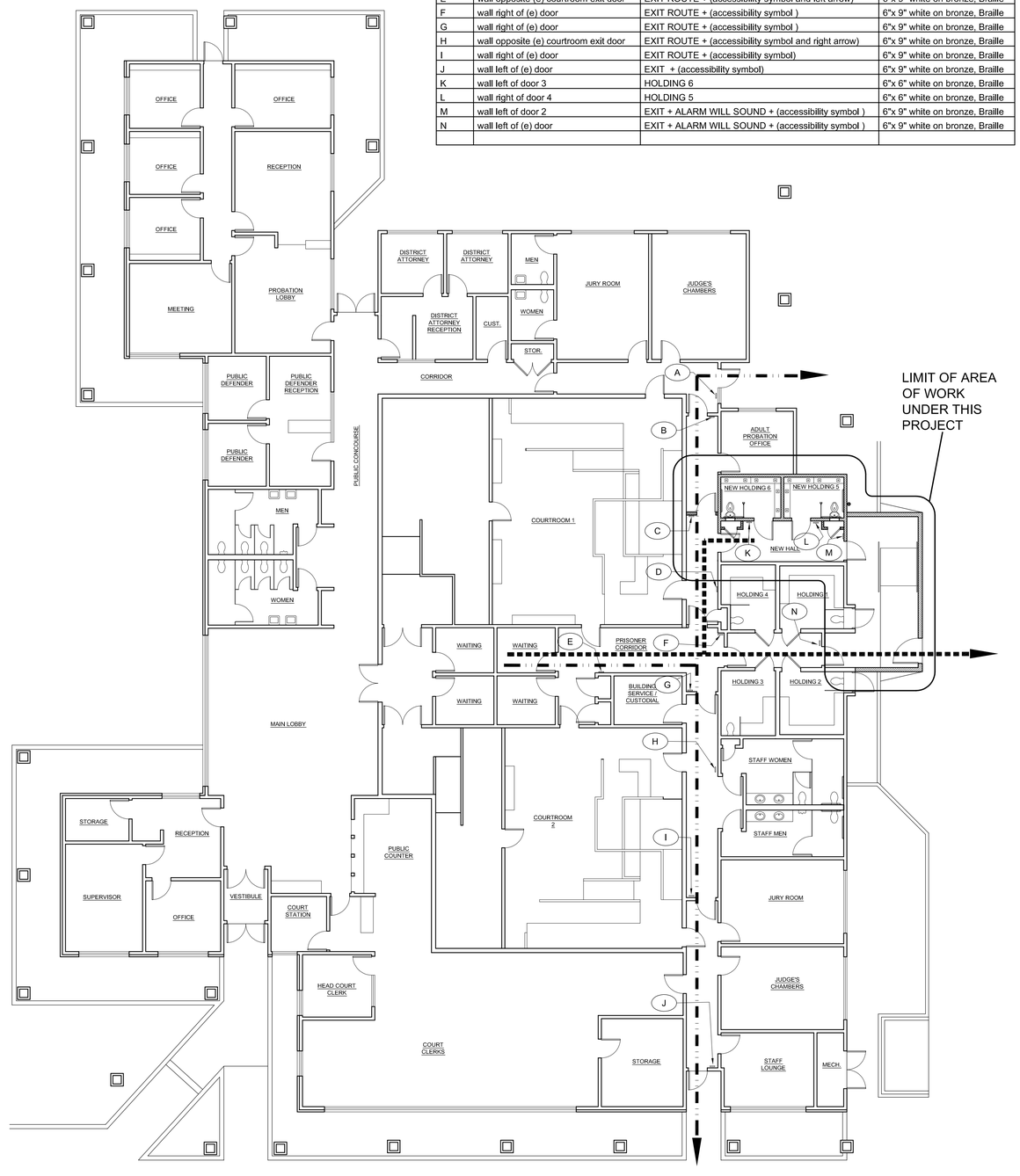
C. The international symbol of accessibility at the building entry may be a decal or vinyl image applied to the glass; all other signage for this work shall be wall-mounted plaques with raised characters/images and Braille dots as indicated in the Sign Schedule.

D. Bring any conflicts between the proposed location of a sign and other signage, electrical devices, etc., to the attention of the Architect for resolution prior to signage installation.

SIGNAGE LEGEND

REFER TO SIGN DETAILS, SHEET A.4

SIGN	LOCATION	COPY	NOTES (SIGN SIZE W x H)
A	glass right of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille
B	wall right of (e) door	EXIT ROUTE + (accessibility symbol and right arrow)	6"x 9" white on bronze, Braille
C	wall left of door 8	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille
D	wall opposite (e) courtroom exit door	EXIT ROUTE + (accessibility symbol and left arrow)	6"x 9" white on bronze, Braille
E	wall opposite (e) courtroom exit door	EXIT ROUTE + (accessibility symbol and left arrow)	6"x 9" white on bronze, Braille
F	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille
G	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille
H	wall opposite (e) courtroom exit door	EXIT ROUTE + (accessibility symbol and right arrow)	6"x 9" white on bronze, Braille
I	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille
J	wall left of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille
K	wall left of door 3	HOLDING 6	6"x 6" white on bronze, Braille
L	wall right of door 4	HOLDING 5	6"x 6" white on bronze, Braille
M	wall left of door 2	EXIT + ALARM WILL SOUND + (accessibility symbol)	6"x 9" white on bronze, Braille
N	wall left of (e) door	EXIT + ALARM WILL SOUND + (accessibility symbol)	6"x 9" white on bronze, Braille



PATH OF TRAVEL LEGEND

IN-CUSTODY PATH OF TRAVEL

STAFF / SHERIFF PATH OF TRAVEL

N

OVERALL PLAN / SIGNAGE PLAN

SCALE : 1" = 10'- 0"

PROJECT

NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST.
DELANO, CALIFORNIA

CLIENT JOB # 1027073

ARCHITECT JOB # 1002

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

DRAWN BY BS

DATES
07-07-10
09-10-10
10-18-10 PLAN CHECK 1
11-23-10 PLAN CHECK 2
01-05-11 PLAN CHECK 3

SIGNED

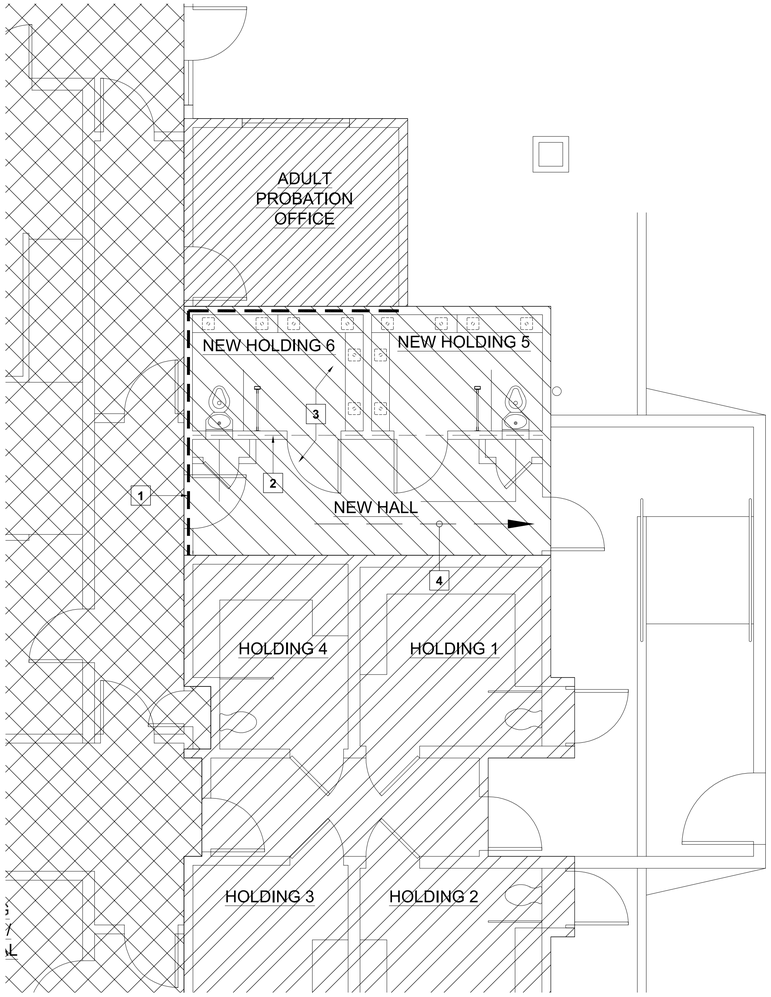
LICENSED ARCHITECT BRUCE DOUGLAS FRASER C 9787 EXPIRES 12-31-2012 STATE OF CALIFORNIA

SHEET TITLE

SITE, OVERALL PLAN

SHEET #

A.1



CODE ANALYSIS

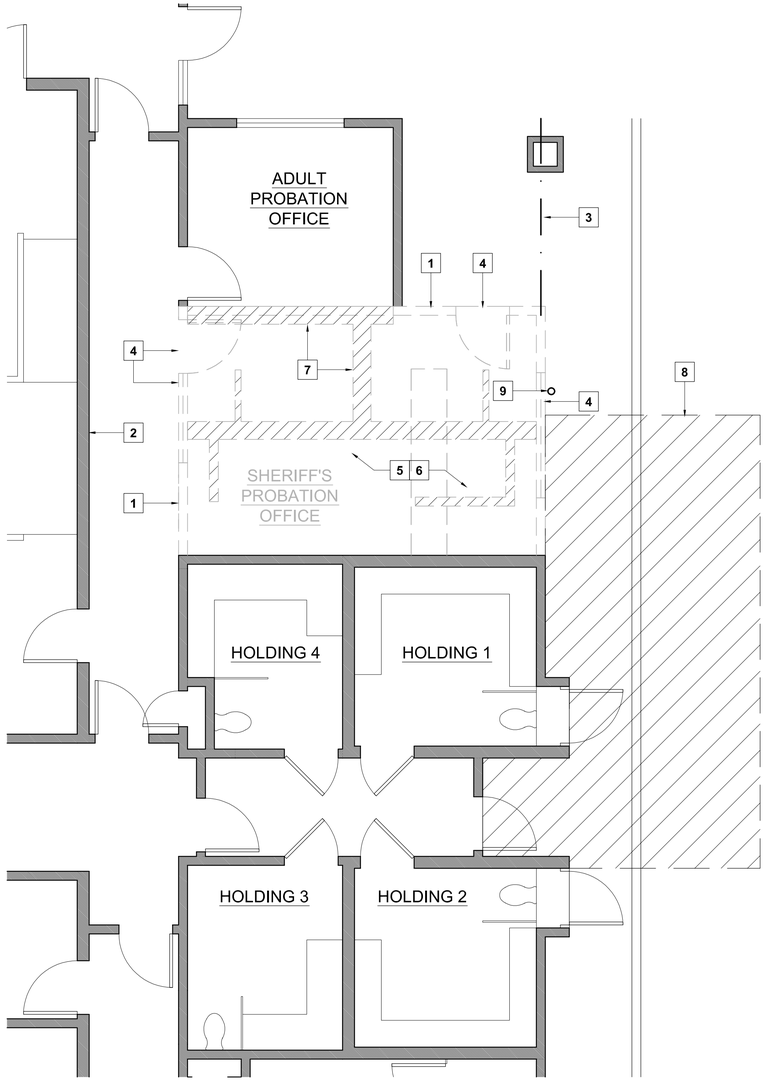
SCALE : 1/4" = 1'-0"

OCCUPANCY KEYNOTES

1. EXTENT OF CBC REQUIRED 2-HOUR VERTICAL BARRIER.
2. EXTENT OF CBC REQUIRED 1-HOUR VERTICAL BARRIER.
3. CBC REQUIRED 2-HOUR HORIZONTAL BARRIER AT ALL NEW "I" OCCUPANCY.
4. EXIT PATH OF TRAVEL FOR NEW "I" OCCUPANCY.

LEGEND

- EXISTING A-3 OCCUPANCY
- EXISTING B OCCUPANCY
- EXISTING I OCCUPANCY
- NEW I OCCUPANCY



DEMOLITION PLAN

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

DEMOLITION KEYNOTES

1. EXISTING WOOD FRAMED WALL TO BE DEMOLISHED AND REMOVED FROM SITE; PULL WIRING AND OTHER INSTALLATIONS INTO ATTIC SPACE TO CLEAR NEW CONSTRUCTION.
2. GYPSUM BOARD TO BE REMOVED AT INTERSECTION OF NEW WALL.
3. EXISTING BEAM TO BE SHORED AND BRACED UNTIL ATTACHED TO NEW CONSTRUCTION.
4. DOORS, WINDOWS, AND FRAMES TO BE REMOVED AND DELIVERED TO KERN COUNTY AS DIRECTED.
5. ALL FLOORING FINISHES TO BE REMOVED FROM SITE.
6. ALL CEILING TILES AND LIGHT FIXTURES TO BE REMOVED AND DELIVERED TO KERN COUNTY AS DIRECTED. CEILING SUSPENSION SYSTEM AND GYPSUM BOARD CEILING SURFACES TO BE REMOVED FROM SITE.
7. FLOOR SLAB TO BE SAWCUT AT AREAS OF NEW FOOTINGS AND WASTE PLUMBING AND REMOVED. RECYCLE PER KERN COUNTY STANDARDS.
8. CONCRETE SIDEWALK AND CURB, AND ASPHALTIC CONCRETE PAVING TO BE SAWCUT AND REMOVED AS REQUIRED TO ACCOMMODATE NEW SALLYPORT. RECYCLE PER KERN COUNTY STANDARDS.
9. EXISTING FIRE SPRINKLER RISER AND ALARM ASSEMBLY TO BE RELOCATED. COORDINATE WITH COURTS, MONITORING AGENCY, AND FIRE SPRINKLER TO ASSURE MAXIMUM CONTINUITY OF SERVICE.

LEGEND

- EXISTING WALL TO REMAIN AND PROTECT
- EXISTING TO BE REMOVED

PROJECT

NEW HOLDING CELL PROJECT

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DELANO, CALIFORNIA

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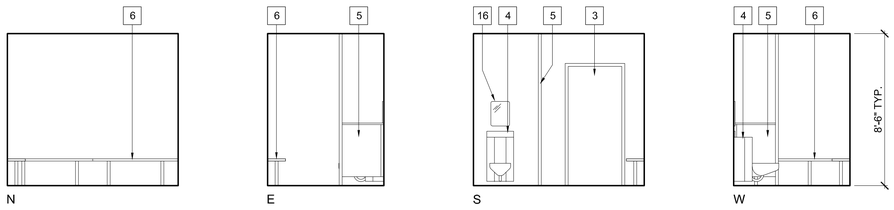
LICENSED ARCHITECT
BRUCE DOUGLAS FRASER
C 9787
EXPIRES 12-31-2013
STATE OF CALIFORNIA

SHEET TITLE

DEMOLITION PLAN, CODE ANALYSIS

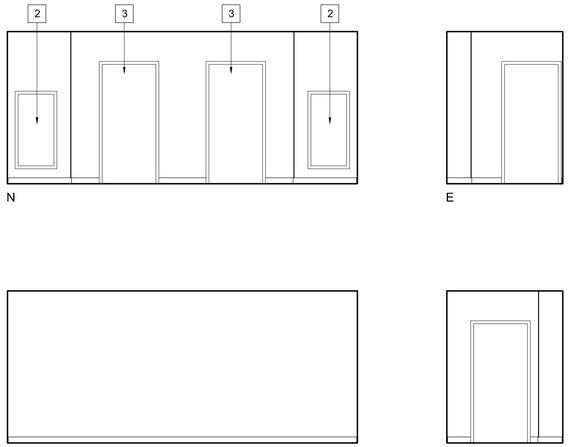
SHEET #

A.2



51 CELL 1, CELL 2 (SIM.)

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



53 HALL

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

KEYNOTES

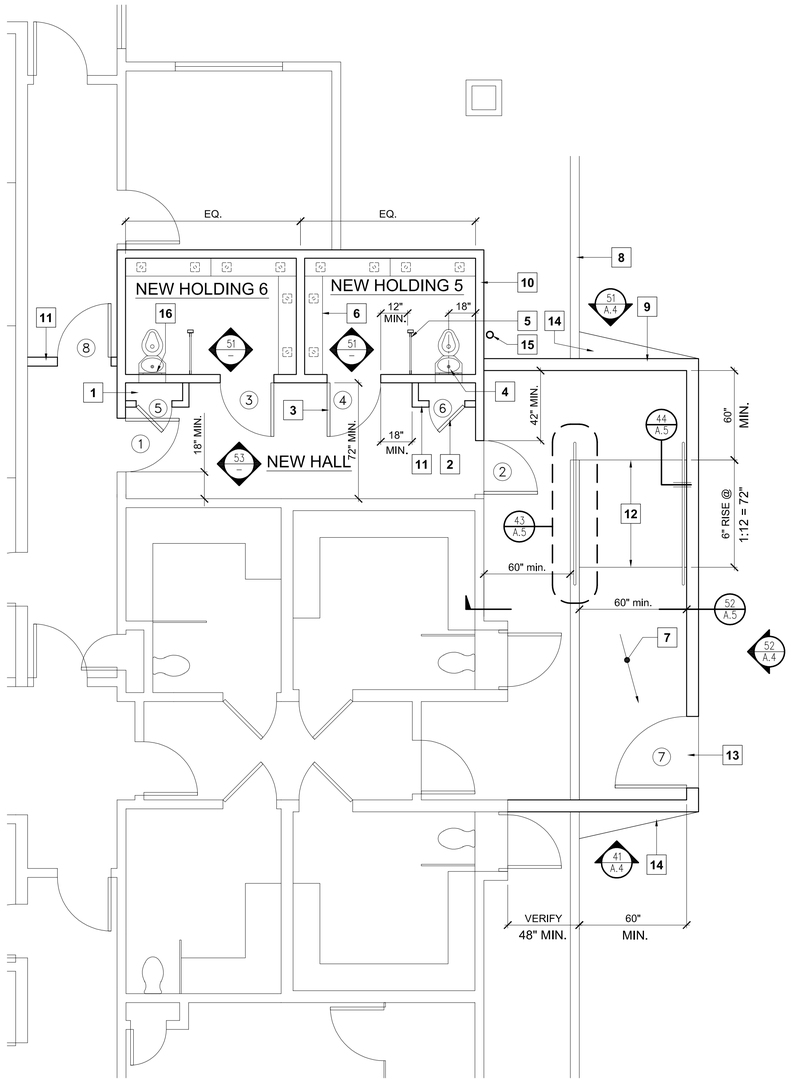
1. PLUMBING CHASE
2. 2040 SOLID CORE WOOD DOOR
3. 3070 SOLID CORE STEEL DOOR
4. "COMBY" TOILET / SINK / BUBBLER
5. STAINLESS STEEL PRIVACY SCREEN
6. STAINLESS STEEL 12" FLOOR MTD. BENCH
7. SLOPE 1% TO DRAIN
8. EXISTING CURB
9. CONCRETE BLOCK SALLY PORT WALL
10. NEW CONCRETE BLOCK WALL
11. NEW WOOD FRAMED WALL
12. RAMP
13. 4 FT. WIDE GATE
14. CRICKET ASPHALT TO FACILITATE DRAINAGE
15. RELOCATED FIRE SPRINKLER RISER
16. 12-1/2"W X 16-1/2" H STAINLESS STL. MIRROR

FINISH NOTES

NEW HOLDING CELLS
- FLOOR: Epoxy coating over concrete slab
- WALL BASE: N/A
- WALLS: Block filler and epoxy coating over concrete block
- CEILING: Epoxy coating over thin-coat plaster over gypsum board

NEW HALLWAY
- FLOOR: Epoxy coating over concrete slab
- WALL BASE: 4 inch resilient wall base
- WALLS: Acrylic paint over filler/concrete block or gypsum board
- CEILING: Acrylic paint over thin-coat plaster over gypsum board

NEW EXTERIOR SALLYPORT
- FLOOR: Light broom finished concrete
- WALLS: Extend existing textured plaster
- CEILING: Acrylic paint at new metal framing and roofing; repair existing textured plaster as required

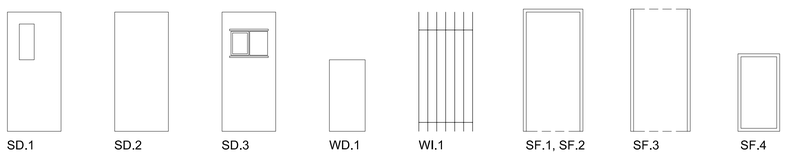


REMODEL PLAN

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

DOOR SCHEDULE

NO.	TYPE	FRAME	WIDTH	HT.	THICK.	HDWRE.	REMARKS
1	SD.1	SF.1	3'-0"	6'-8"	1-3/4"	1	HALLWAY SECURE PASSAGE, GLASS-CLAD POLYCARBONATE, 90 MIN. RATED
2	SD.2	SF.1	3'-0"	6'-8"	1-3/4"	2	EXTERIOR ENTRY/EXIT, 90 MIN. RATED
3	SD.3	SF.2	3'-0"	6'-8"	1-3/4"	3	HOLDING CELL ENTRY, GLASS-CLAD POLYCARBONATE, 60 MIN. RATED
4	SD.3	SF.2	3'-0"	6'-8"	1-3/4"	3	HOLDING CELL ENTRY, GLASS-CLAD POLYCARBONATE, 60 MIN. RATED
5	WD.1	SF.4	2'-0"	4'-0"	1-3/4"	4	CHASE ACCESS DOOR
6	WD.1	SF.4	2'-0"	4'-0"	1-3/4"	4	CHASE ACCESS DOOR
7	WI.1	SF.3	4'-0"	6'-8"	-	5	WROUGHT IRON GATE
8	SD.1	SF.1	3'-0"	6'-8"	1-3/4"	6	HALLWAY SECURE PASSAGE, GLASS-CLAD POLYCARBONATE, NON RATED



HARDWARE SCHEDULE

GROUP 1
- Hinges: 3, ball bearing standard duty (Hager BB1279)
- Lockset: heavy duty communicating lock function, lever handle (Schlage D72PD)
- Closer: inside surface mount (LCN 4110)
- Door Bottom: aluminum shoe, vinyl bulb smoke seal (Pemko 217)
- Threshold: accessible saddle, full width (Pemko 270)
- Stop: wall stop (Ives WS 401/402)
- Seals: silicone bulb, head and jambs (Pemko S88)
- Electric Function: electric latch retraction (Falcon EL with power supply)
- Access Control: proximity card reader (HID Thinline II)

GROUP 2
- Hinges: 3, ball bearing heavy duty exterior (Hager BB1199)
- Lock: keyed cylinder, compatible with Court standards (Schlage B500)
- Panic Device: alarmed rim latch fire exit device, electric and key override (Von Duprin E98L-NL-F-SS)
- Closer: inside surface mount (LCN 4110)
- Door Bottom: aluminum shoe, vinyl bulb seal (Pemko 217)
- Threshold: accessible saddle with riser, full width (Pemko 271/282)
- Viewer: wide angle, one way (Ives U698)
- Seals: silicone bulb, head and jambs (Pemko S88)
- Electric Function: electric latch retraction (Von Duprin E with power supply)
- Access Control: proximity card reader (HID Thinline II)

GROUP 3
- Hinges: 3, ball bearing heavy duty (Hager BB1168)
- Lock: keyed cylinder, compatible with Court standards (Schlage B600)
- Pull: 1" diameter round x 8" long (Ives 8103-8)
- Pull Plate: 4" x 16", custom cutouts for pull and cylinder (Ives 8300)
- Seals: silicone bulb, head and jambs (Pemko S88)
- Cabinet Pull (window cover): metal 4" wire pull (Hafele 117.50.610)

GROUP 4
- Hinges: 2, standard duty (Hager AB700)
- Lock: keyed cylinder, compatible with Court standards (Schlage B600)
- Seals: silicone bulb, all sides (Pemko S88)

GROUP 5
- Hinges: gate/fence manufacturer's standard, spring return
- Panic Device: mortise latch exit device, electric and key override (Von Duprin E98L-NL-M)
- Electric Function: electric latch retraction (Von Duprin E with power supply)
- Access Control: proximity card reader (HID Thinline II)

GROUP 6
- Hinges: 3, ball bearing standard duty (Hager BB1279)
- Lockset: heavy duty communicating lock function, lever handle (Schlage D72PD)
- Closer: inside surface mount (LCN 4110)
- Stop: wall stop (Ives WS 401/402)
- Seals: silicone bulb, head and jambs (Pemko S88)
- Electric Function: electric latch retraction (Falcon EL with power supply)
- Access Control: proximity card reader (HID Thinline II)

PROJECT

NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST.
DELANO, CALIFORNIA

CLIENT JOB # 1027073

ARCHITECT JOB # 1002

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

DRAWN BY BS

DATES
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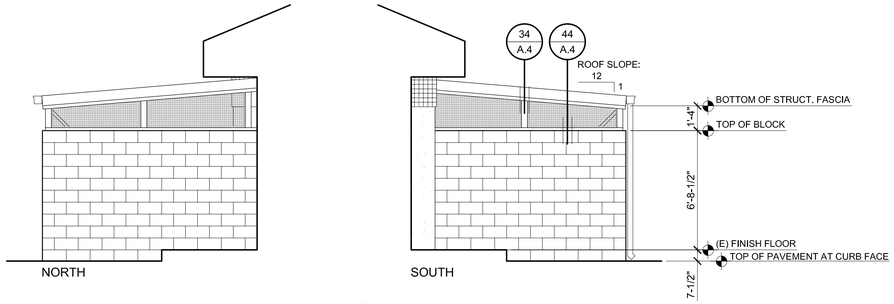
SIGNED

LICENSED ARCHITECT BRUCE DOUGLAS FRASER C 9787 EXPIRES 12-31-2012 STATE OF CALIFORNIA

SHEET TITLE

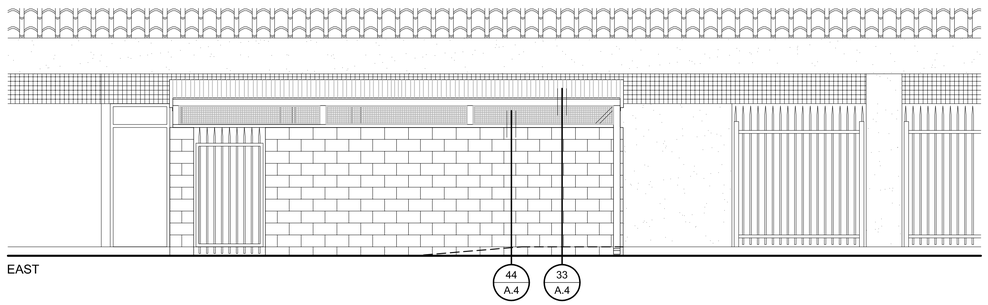
REMODEL PLAN, INTERIOR ELEVATIONS

SHEET # **A.3**

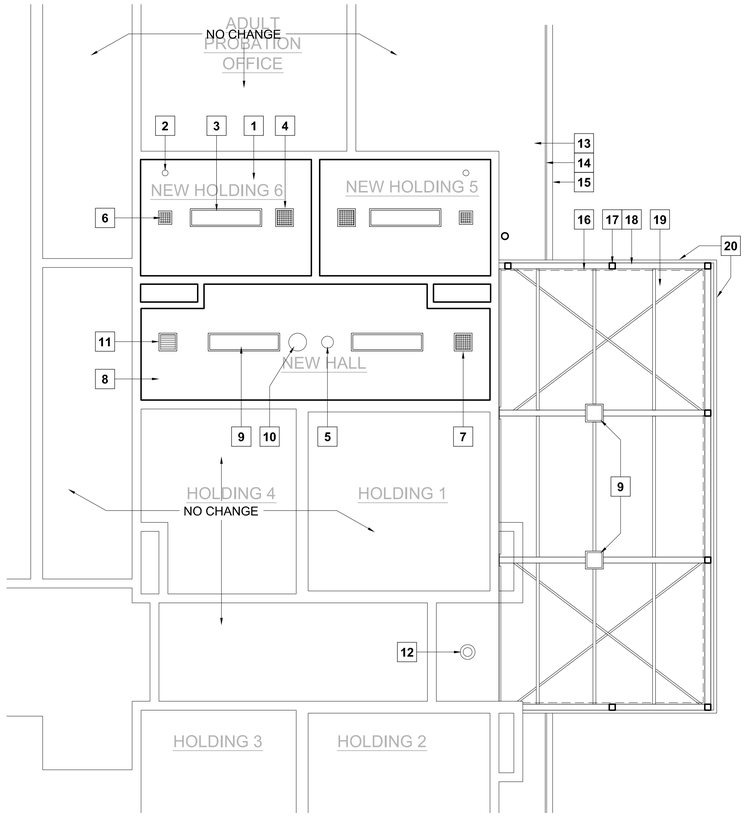


51 SALLY PORT ELEVATION
SCALE : 1/4" = 1'-0"

41 SALLY PORT ELEVATION
SCALE : 1/4" = 1'-0"



52 SALLY PORT ELEVATION
SCALE : 1/4" = 1'-0"

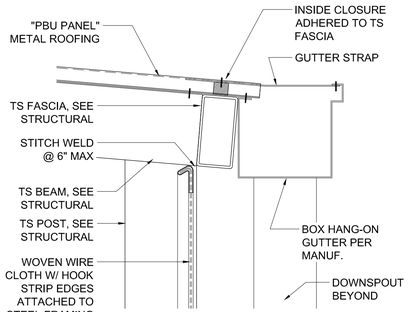


N

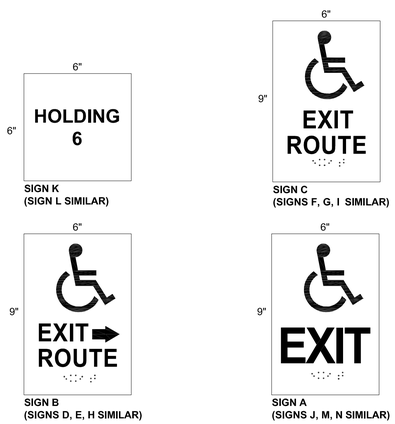
REFLECTED CEILING PLAN
SCALE : 1/4" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES

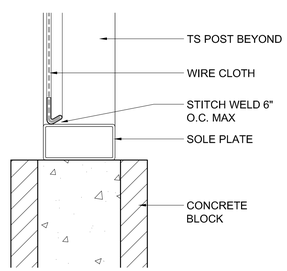
1. PAINTED PLASTER CEILING AT +8'-6".
2. CCTV SURFACE CEILING CAMERA.
3. SURFACE MOUNTED VANDAL RESISTANT LIGHT FIXTURE.
4. HARDENED SUPPLY AIR REGISTER.
5. SURFACE CEILING SMOKE DETECTOR.
6. HARDENED EXHAUST GRILLE.
7. EXHAUST GRILLE.
8. PAINTED GYPSUM BOARD CEILING AT +8'-6".
9. SURFACE MOUNTED LIGHT FIXTURE.
10. CEILING SPEAKER.
11. SUPPLY AIR REGISTER.
12. EXISTING RECESSED LIGHT FIXTURE.
13. EXISTING PLASTER SOFFIT.
14. EXISTING RAIN DRIP.
15. LINE OF SOFFIT EDGE.
16. WIRE MESH SECURITY SCREEN.
17. METAL COLUMN.
18. METAL ROOF FRAMING.
19. METAL ROOFING.
20. LINE OF METAL ROOF EDGE.



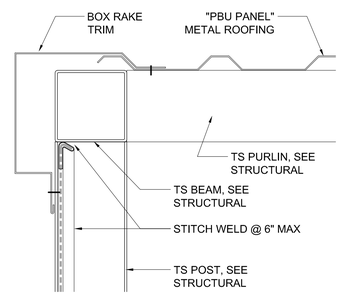
33 GUTTER ATTACHMENT
3"=1'- 0"



54 SIGN DETAILS
3"=1'- 0"



44 SCREEN AT WALL
3"=1'- 0"



34 RAKE EDGE
3"=1'- 0"

PROJECT

NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST.
DELANO, CALIFORNIA

CLIENT JOB # 1027073
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FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

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SIGNED

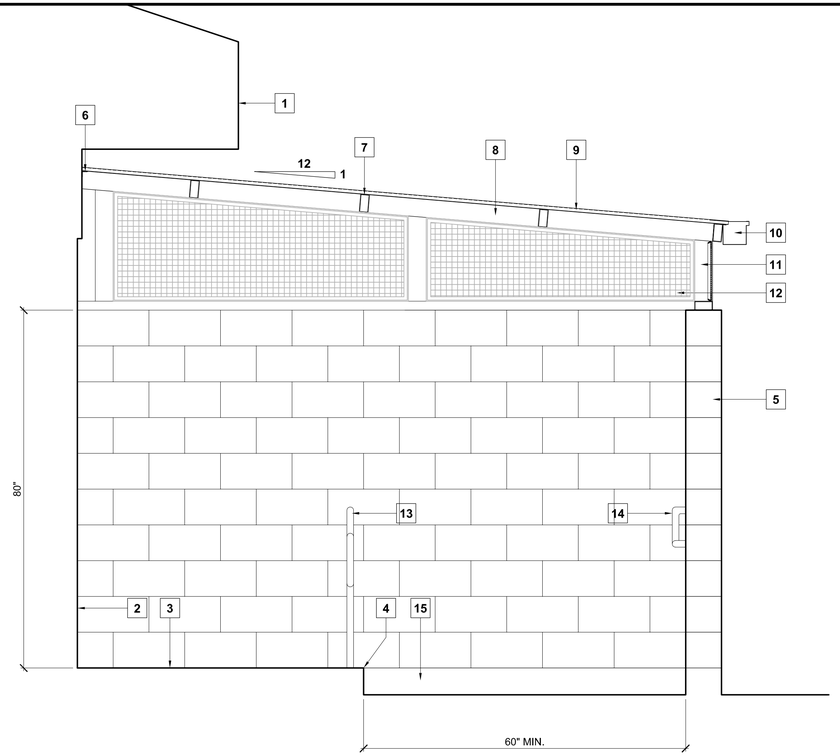
LICENSED ARCHITECT
BRUCE DOUGLAS FRASER
C 9787
EXPIRES 12-31-2013
STATE OF CALIFORNIA

SHEET TITLE

REFLECTED CEILING PLAN, ELEVATIONS, DETAILS

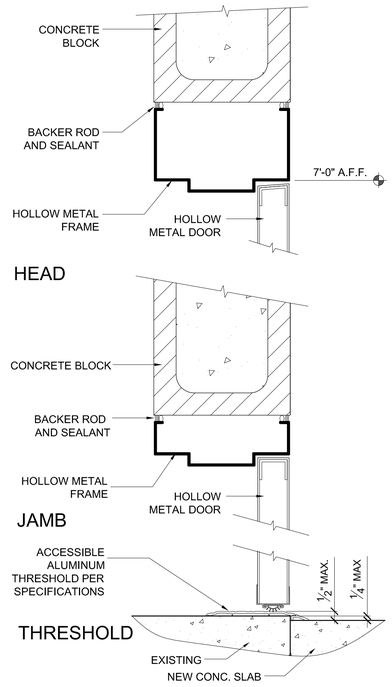
SHEET #

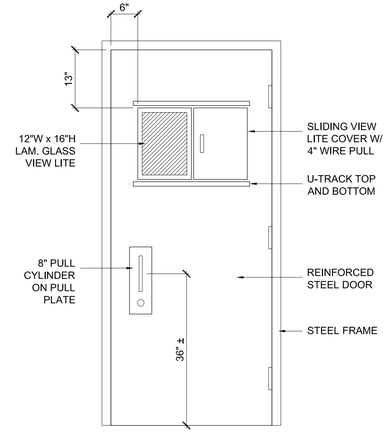
A.4



SALLY PORT SECTION KEYNOTES

1. EXISTING PLASTER FASCIA AND SOFFIT.
2. EXISTING PLASTER BUILDING WALL.
3. EXISTING CONCRETE SIDEWALK.
4. EXISTING CONCRETE CURB.
5. NEW CONCRETE BLOCK SALLYPORT ENCLOSURE WALL.
6. STEEL ANGLE ROOF FRAMING ATTACHED TO WALL.
7. STEEL ROOF PURLIN.
8. STEEL ROOF BEAM.
9. METAL ROOFING.
10. MANUFACTURED BOX HANG-ON GUTTER.
11. STEEL POST.
12. WOVEN WIRE CLOTHE, 3 SIDES.
13. STEEL PIPE HANDRAIL MOUNTED TO CURB.
14. STEEL PIPE HANDRAIL MOUNTED TO WALL.
15. RAMP BEYOND.

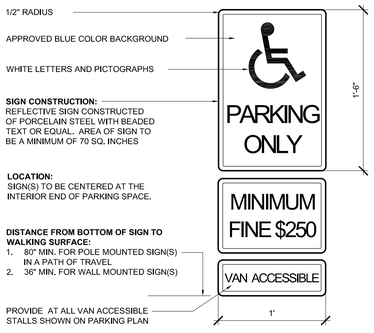




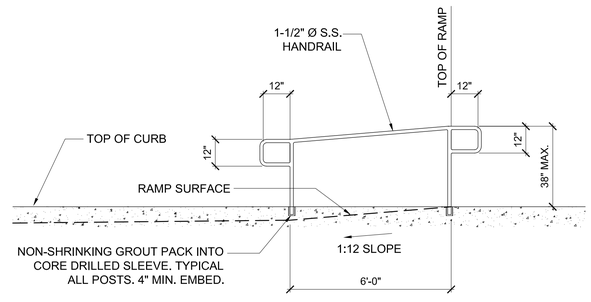
52 SALLY PORT SECTION
SCALE : 3/4" = 1'-0"

22 DOOR HEAD / JAMB @ CMU
3"=1'- 0"

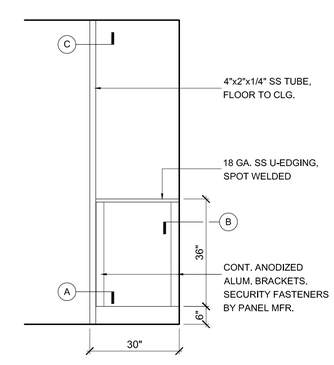
12 CELL DOOR ELEVATION
SCALE : 3/4" = 1'-0"



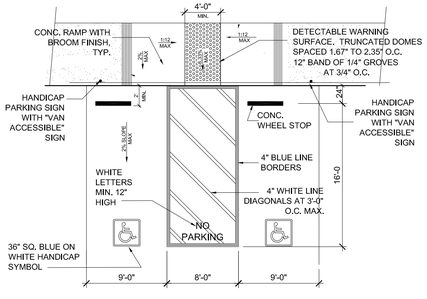
53 ACCESSIBLE STALL SIGN
1 1/2"= 1' -0" D104006E



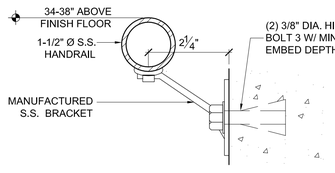
43 HANDRAIL AT RAMP
SCALE : 3/8" = 1'-0"



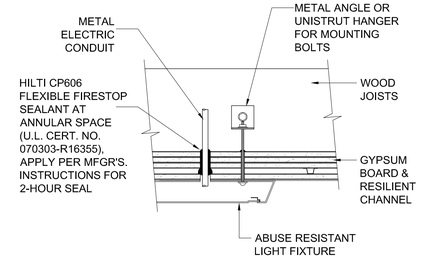
ELEVATION
1/2" = 1'-0"



54 VAN ACCESSIBLE H/C PARKING PLAN
1/8"=1' -0"



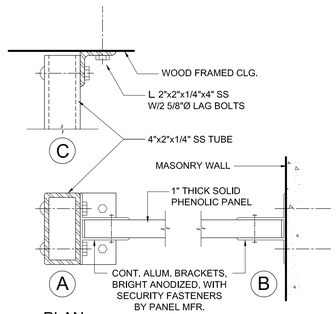
44 HANDRAIL SUPPORT
SCALE : 6" = 1'-0"



34 CELL LIGHT FIXTURE
1-1/2"=1'- 0"

GA File No. RC2750:
Base layer 5/8" type X gypsum wallboard applied at right angles to either 2x10 wood joists or 9-1/2" deep wood I-joists 24" o.c. with 1-1/4" Type W drywall screws 12" o.c. **Second** layer 5/8" type X gypsum wallboard applied at right angles to joists or I-joists with 2" Type W drywall screws 12" o.c. Second layer joints offset 24" from base layer joints. **Third** layer 5/8" type X gypsum wallboard applied at right angles to joists or I-joists with 2-1/2" Type W drywall screws 12" o.c. Third layer joints offset 12" from second layer joints. Hat-shaped rigid furring channels 24" o.c. applied at right angles to joists or I-joists over third layer with two 2-1/2" long Type W drywall screws at each joist or I-joist. **Face** layer 5/8" type X gypsum wallboard applied at right angles to furring channels with 1-1/8" Type S drywall screws 12" o.c. Wood joist or I-joists supporting 3/4" T&G edge plywood applied at right angles to joist or I-joists with 8d nails 6" o.c. at joints and 12" at intermediate joists or I-joists. Appropriate roof covering.

24 2-HOUR CEILING
1-1/2"=1'- 0"



PLAN
3" = 1'-0"

14 PRIVACY SCREEN
SCALE : AS NOTED

PROJECT
NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST.
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ARCHITECT JOB # 1002

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

DRAWN BY BS

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SIGNED
LICENSED ARCHITECT BRUCE DOUGLAS FRASER C 9787 EXPIRES 12-31-2012 STATE OF CALIFORNIA

SHEET TITLE
DETAILS

SHEET # **A.5**

DESIGN LOADS

Roof Live Load: 20 psf
Ceiling Live Load: 10 psf
Floor Live Load: N/A
Roof Snow Load: N/A
Flood Design Data: N/A

Basic Wind Speed: 85 mph
Exposure: B
Importance Factor: 1.15
Seismic Design Catagory: D
SITE CLASS: D
Importance Factor: 1.25
SI= 0.31
Ss= 0.82
SDS= 0.64
SDI= 0..37
Bearing Wall System:7
V= Cs*W
Cs= .16
R= 5
Equivalent Lateral Force Analysis

GENERAL NOTES

1. Verify all dimensions on the structural sheet with the architectural plans.
2. Report any discrepancies to the architect and engineer immediatly and prior to resumption of work.
3. UNO = Unless Noted Otherwise.

STRUCTURAL STEEL

1. Rolled shapes and plates shall conform to ASTM A-36 unless noted.
   Tubes shall be ASTN A500 Grade B
   Pipes shall be ASTM A53 Grade B.
   Identification procedures shall conform to ASTM A-6.
2. Welding shall conform to AWS D1.1 and shall use either the shielded or submerged arc methods. Electrodes used for welding to A-36 steel shall be E70XX. Electrodes for welding to A-572 (Grade 50) steel shall be E70XX low hydrogen type. Welders shall be certified.
3. All connections show on plans are typical. Steel fabricator to detail those connections not specifically shown and shall submit shop drawings for review by the engineer of record, and approval by the D.S.A.
4. Steel fabricator to verify all dimensions with the architectural and structural drawings.
5. All welding to be continuously inspected by AWS certified inspector.
6. All fabrication shall be done in a shop of approved fabricator.
7. All bolt holes shall be 1/16" larger than bolt unless noted.

MASONRY

1. All concrete block shall conform to ASTM C90, Grade N. Fill all cells with grout.
2. Grout shall develop 2000 psi in 28 days. Mortar shall be type "S".
3. All reinforcing steel shall be ASTM A-615 Grade 60 (#3 may be Grade 40) Splices in reinforcing steel shall be minimum 48 bar diameters unless noted.
4. All isolated bolts embedded in masonry shall be grouted solidly in place with not less than 1" of grout surrounding bolt.
   Titen HD anchors shall be separated from masonry head joints as required by ICC ESR-1056.
5. Vertical bolts set on top of the wall shall be set on center line of wall UNO.
6. Alll wood plates bolted on top of masonry walls shall be set on a mortar bed to provide uniform bearing.

SPECIAL INSPECTIONS REQUIRED

A. Structural Steel per CBC 1704.3 and Table 1704.3
B. Concrete Design f'c= 2500 psi, No Special Inspection Required.
C. Structural Masonry (Level 1) per CBC 1704.5.2 and CBC Table 1704.5.1
   1. Type S Mortar, 2000 psi Soild Grout, Rebar Fy= 60ksi
   2. Placement of Anchor Bolts for Seismic Ties @ Ceiling (Detail T1)
   3. Placement of rebar, especially in wall ends and corners.
D. Post-installed concrete anchors per CBC 1704.13 and ICC Evaluation Report ESR-2508.
E. Placement of Ceiling Joist Ties (Detail T1)
F. Diaphragm placement and nailing.

REINFORCED CONCRETE

1. Use aproved percast concrete Dobies to support footing steel off the ground.
2. All concrete f'c= 3000 psi (Slab-on-grade can have f'c= 2500 psi).
3. Anchor bolts and dowels shall be securly held in place befor concrete is poured.
4. All reinforcing steel shall be ASTM A-615 Grade 60 (#3 may be Grade 40)
   Splices in reinforcing steel shall lap as follows:
   #3 thru #5 = 30*Diam., #6 & #7 = 40*Diam., #8 & #9 = 52*Diam.,
   #10 and #11 = 66*Diam., Column bars = 30*diam. UNO.
   Horizontal splices shall be staggered.
   At splices and laps for beams, bars shall be separated 2.1/2"oc min. but in no case shall the separation be less than 1.1/2" clr. (Column bars may be in contact and wall bars be wired together at splices). Lap splice W.W.F. one cross bar +2".
5. The clear distance between parallel bars shall not be less than 1.1/2" UNO.
6. Reinforcing steel shall have a protected concrete cover as follows: UNO

Wall Steel Below Grade:	On dirt side poured against dirt	= 3"
	On dirt side when formed	= 2"
Wall Steel Above Grade:	In all cases	= 1.1/2"
Other items:	Footing Pads	= 3"
	Slabs (L.W. Conc.)	= 3/4"
	Slabs (Hard Rock Conc.)	= 1"
	Joists (sides, tops & soffits)	= 1"
	Columns (to main steel)	= 2"
	Beam Girders (sides,top & soffit)	= 2"

7. All slabs on earth shall have "quick-joint" installed to provide approximately 15 foot squares UNO. Where concrete pours are stopped, the joint shall be formed as a construction joint.

FOUNDATION NOTES:

1. Soil Design Bearing Value = 1500 psf, Footings to extend 18" Min. below adjacent grade.
2. All footings are to bear in firm native soil or approved engineered fill.

WOOD FRAMING NOTES:

1. All framing lumber shall be grade marked Douglas Fir-Larch.
2. Sill plates shal be preasure treated Douglas Fir UNO.
3. Bearing Sill Plates bolted to concrete w/ 5/8"x 10" Anchor Bolts @ 48"oc UNO.
4. Studs shall be spaced 16"oc UNO & the size shown on the plans & Sections.
5. Bolts fastened to wood shall be fitted with standard cut washers.
6. Holes for bolts shall bored 1/32" to 1/16" larger than nominal bolt diameter.
7. Joist hanger and steel straps and connectors are by Simpson Strong-Tie company. Substitutions by other manufacturer's should be approved prior to use and any documentation required for the substitutions shall be submitted for review.
8. Refer to CBC Table 2304.9.1 for minimum nailing schedule.

NEW HOLDING CELL PROJECT

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REGISTERED PROFESSIONAL ENGINEER
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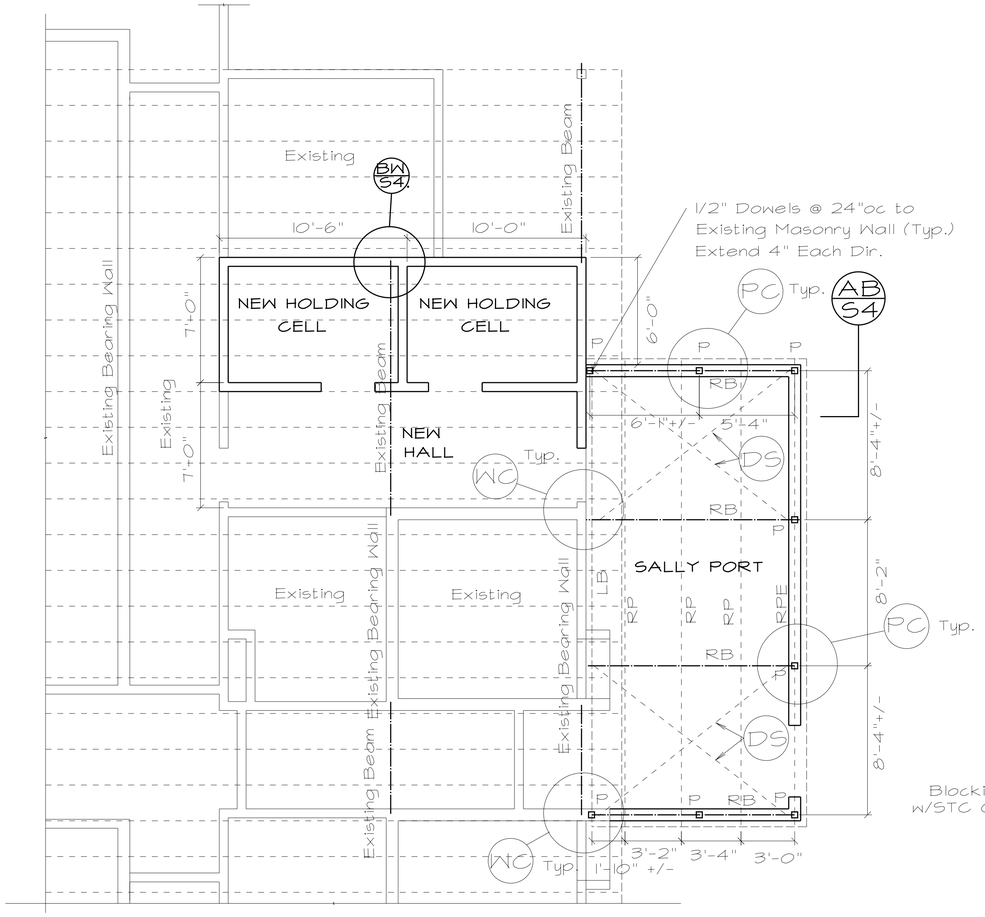
CIVIL
STATE OF CALIFORNIA

REV 11/1/10

SHEET TITLE:

SHEET #: S1

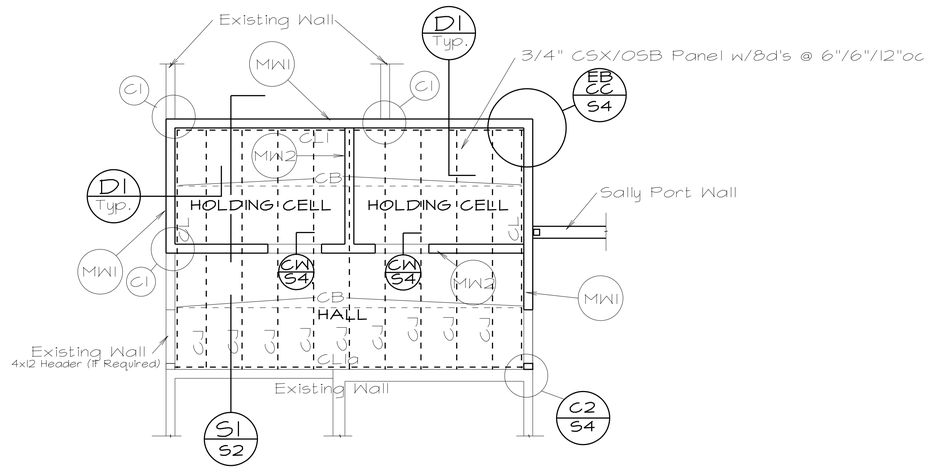
NOTE: Verify all dimensions with the architectural drawings.



SALLY PORT ROOF FRAMING PLAN

1/4" = 1'-0"

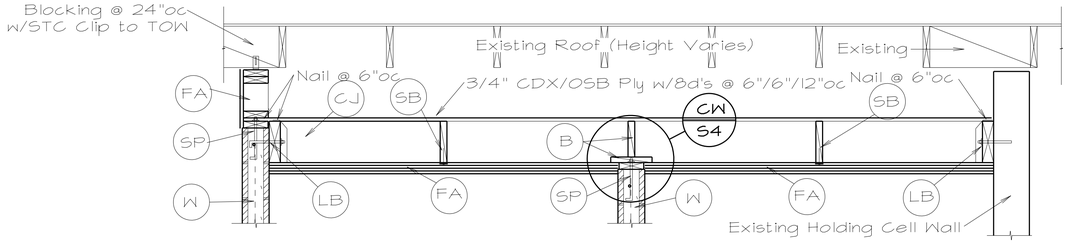
RP = HSS2x2x1/8 Steel Tube Purlin @ 48"oc, Fy= 46 ksi
RPE = HSS4x2x1/8 Steel Tube End Purlin, Fy= 46 ksi
RB = HSS4x4x1/8 Steel Tube Beam @ 8'-3.1/4"oc, Fy = 46 ksi
P = HSS4x4x1/8 Steel Tube Post, Fy = 46 ksi
LB = L1.1/4x1.1/4x1/8 Angle w/1/4x2.1/4 (TTN25214H) TITEN Screws @ 12"oc
(Screw to Roofing from Under side)
Metal Roofing per MAnufacturer's Specifications
DS = CS20 Strap w/#6-20 Phillips Bugle Head Screws
On top of and 1 to each purlin and 2 @ ends to beam
See Sally Port Elevations on Sheet 4



NEW HOLDING CELLS CEILING FRAMING

1/4" = 1'-0"

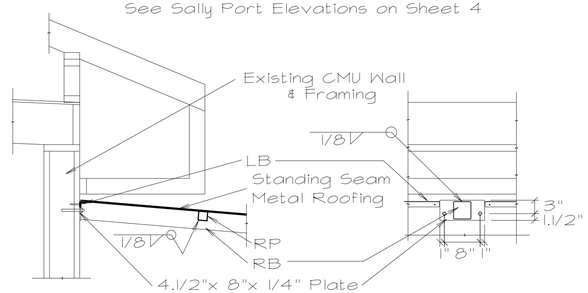
MW1 = 6"x8"x16" CMU (f'm=1500psi, Solid Grout) Height = 9'-8"
w/#4's @ 32"oc Vertical & Horizontal
and #4 Vertical @ each corner and end of wall
MW2 = 6"x8"x16" CMU (f'm=1500psi, Solid Grout) Height = 8'-0"
CJ = 2x10 DF#2 @ 24"oc w/ JB210 Hanger to Ledger
CL1 = 3x10 DF#2 Ledger w/ 1/2" AB's @ 24"oc
CL1a = 3x10 DF#2 Ledger w/ 1/2" TR @ 24"oc Epoxy w/SET or AT System
CL = 3x10 DF#2 Ledger w/ 1/2" AB's @ 48"oc
C1 = 1/2"x 6" AB from Masonry to Wall Stud @ 48"oc (3 min.)
C2 = 1/2" Dowels epoxied 4" into Existing Masonry @ 48"oc (min. 3) See C2/S4
CB = Ceiling Blocking w/DTT2Z to Wall (See D1) & CS20 Strap over ply full length.



S1 NEW HOLDING CELLS CEILING SECTION

3/4" = 1'-0"

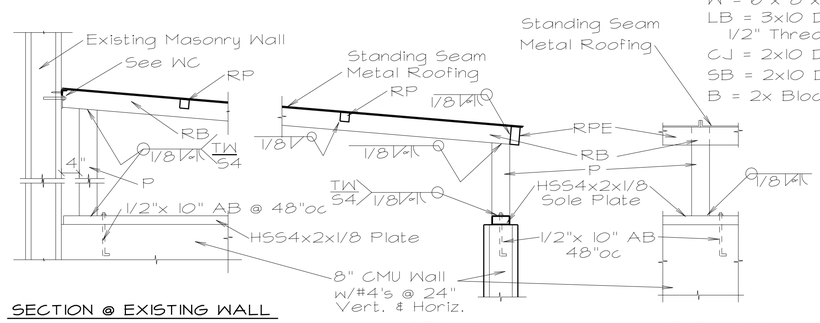
FA = Cripple wall to exsiting roof over Holding Cell Walls
SP = 1/2"x 10" AB @ 48"oc
W = 6"x 8"x 16" CMU Solid Grout w/#4's @ 32"oc Vert. & Horiz.
LB = 3x10 DF#2 Ledger w/ 1/2"x 8" AB @ 48"oc
1/2" Threaded Rod @ 4'oc @ Existing (4" into Wall w/Simpson SET System)
CJ = 2x10 DF#2 Ceiling Joist @ 24"oc w/ JB210 Hanger
SB = 2x10 DF#2 Blocking w/ CS20 Strap Fluul Length (nail @ 6"oc)
B = 2x Blocking



SECTION ELEVATION

WC CONNECTION AT EXISTING BUILDING

3/4" = 1'-0"

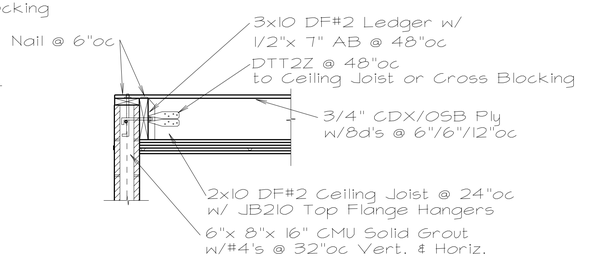


SECTION @ EXISTING WALL

SECTION ELEVATION

PC CONNECTION AT POST

3/4" = 1'-0"



D1 OUT OF PLANE TIE

3/4" = 1'-0"

NEW HOLDING CELL PROJECT

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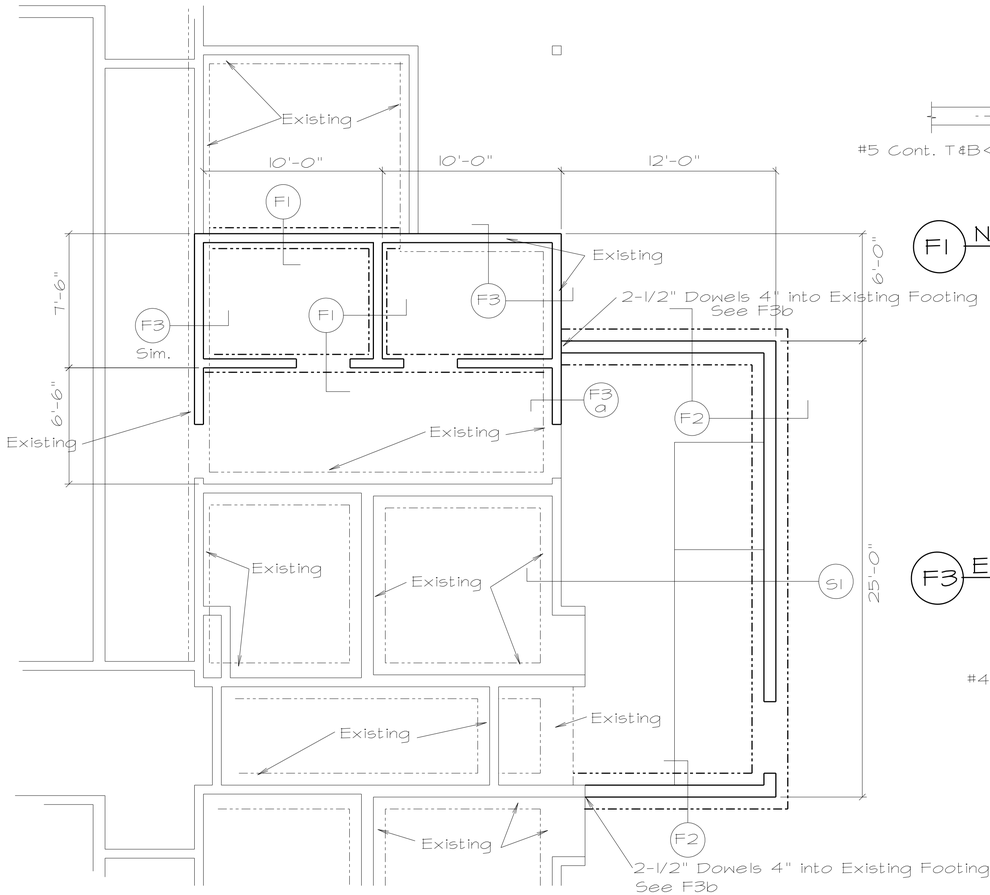
REGISTERED PROFESSIONAL ENGINEER STEPHEN MACIE No. 28063 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

REV 11/1/10

SHEET TITLE:

SHEET #: S2

NOTE: Verify all dimensions with the architectural drawings.

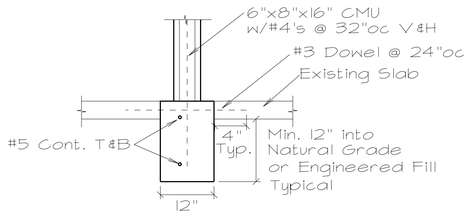


FOUNDATION PLAN

1/4" = 1'-0"

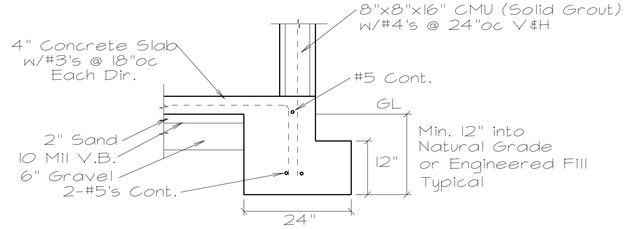
Concrete f'c = 3000 psi @ 28 days
(Special Inspection not required if batch ticket showing Concrete design strength is provided)
Rebar Fy= 60 ksi (#3 Fy= 40 ksi)
Dowel Existing Slab to New Footing w/#3's @ 24"oc
(Extend 4" min. into slab)
NOTE: Refer to the Architectural Drawings fo verify all dimensions shown on these sheets.

Dowel New Footing Rebar into Existing Footing min. 4" (F3b)
New Footing should extend 12" min. into Natural Grade
Rebar in concrete poured against soil requires 3" cover.



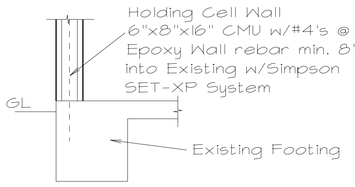
F1 NEW FOOTING

3/4" = 1'-0"



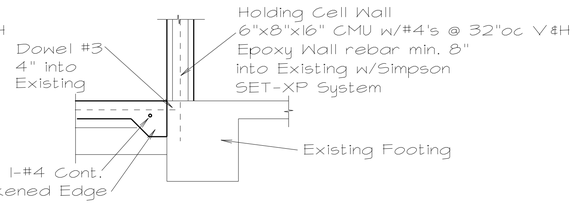
F2 SALLEY PORT FOOTING

3/4" = 1'-0"



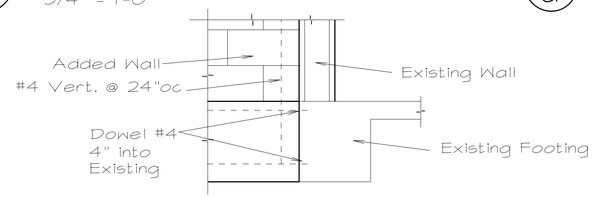
F3 EXISTING FOOTING

3/4" = 1'-0"



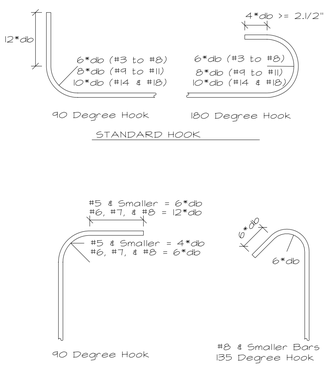
F3a NEW SLAB AT EXISTING FOOTING

3/4" = 1'-0"



F3b NEW FOOTING TO EXISTING FOOTING

3/4" = 1'-0"

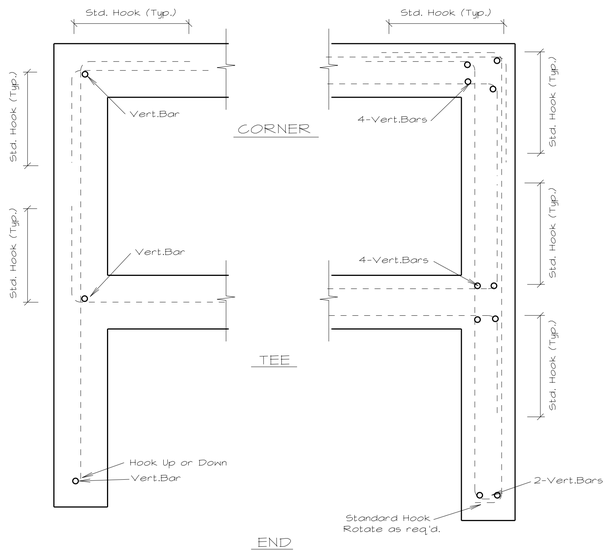


Concrete Lap Splices

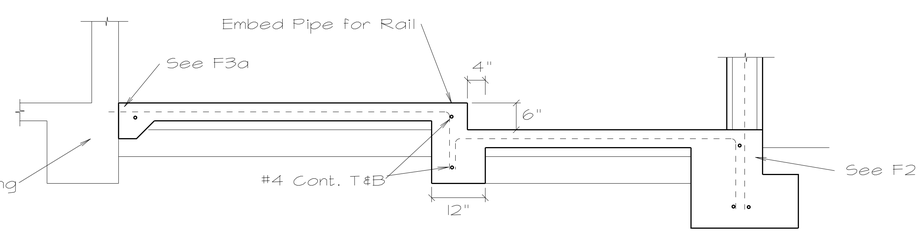
#3 Ld=12"	#8 Ld=32"
#4 Ld=16"	#9 Ld=36"
#5 Ld=20"	
#6 Ld=24"	
#7 Ld=28"	

Masonry Lap Splices

#3 Ld=18"	#8 Ld=48"
#4 Ld=24"	#9 Ld=54"
#5 Ld=30"	
#6 Ld=36"	
#7 Ld=42"	



HORIZONTAL BARS IN WALLS & FOOTINGS



S1 SALLEY PORT SECTION

3/4" = 1'-0"

NEW HOLDING CELL PROJECT

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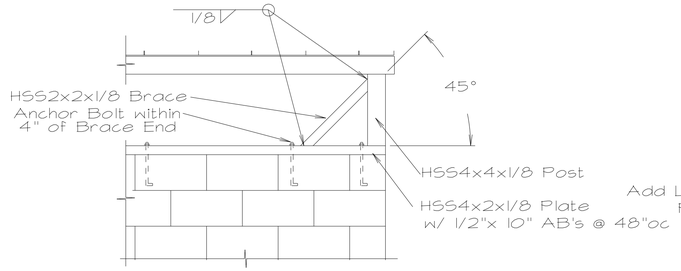
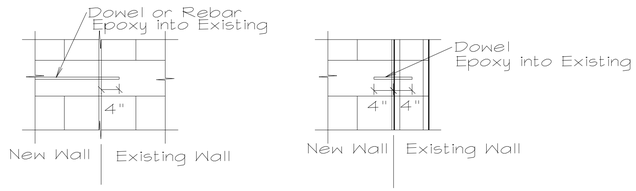
SHEET TITLE:

SHEET #: S3

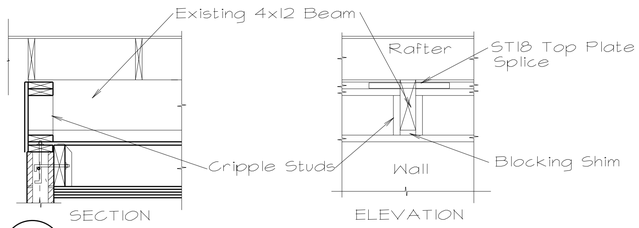
NOTE: Verify all dimensions with the architectural drawings.



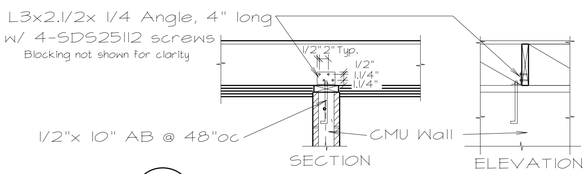
AB ANGLE BRACE DETAIL TYP.
3/4" = 1'-0"



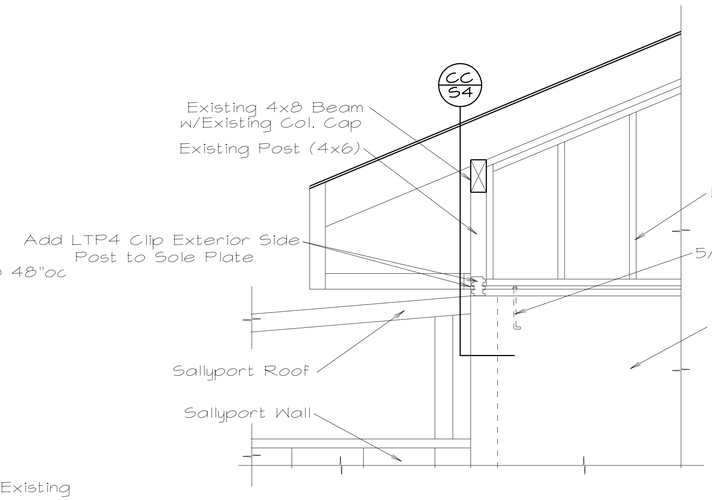
TD TYPICAL DOWEL DETAIL
3/4" = 1'-0" USE: Simpson SET Epoxy System



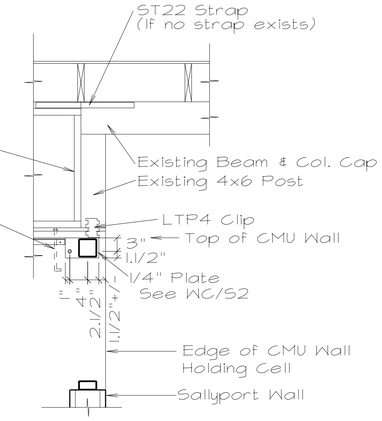
BW BEAM ON NEW CMU WALL
3/4" = 1'-0"



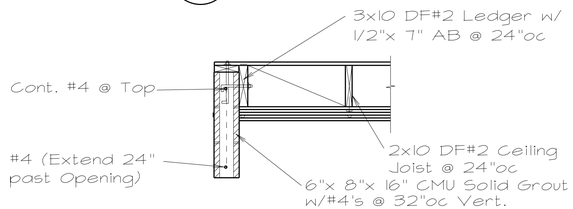
CW CENTER WALL OUT OF PLANE TIE
3/4" = 1'-0"



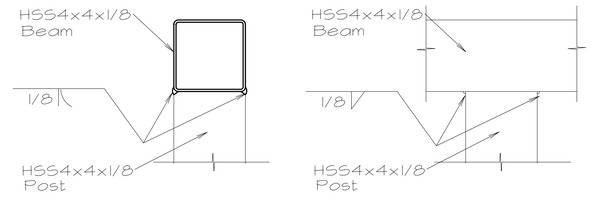
EB EXISTING BEAM SUPPORT AT NEW WALL
3/4" = 1'-0"



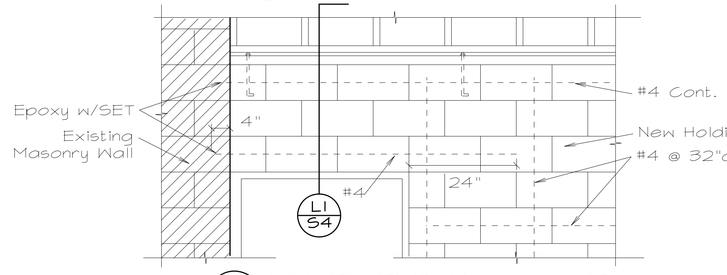
CC CORNER DETAIL
3/4" = 1'-0"



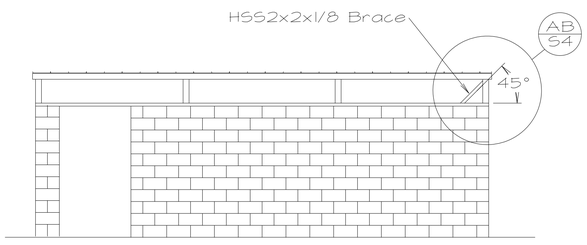
LI LINTEL SECTION TYP.
3/4" = 1'-0"



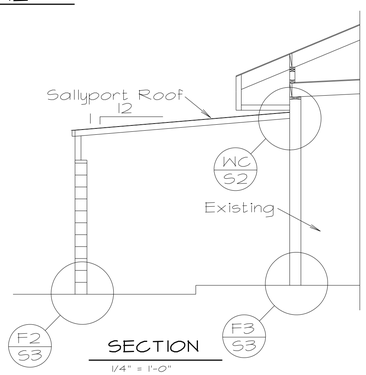
TW TYPICAL WELD DETAIL
3" = 1'-0"



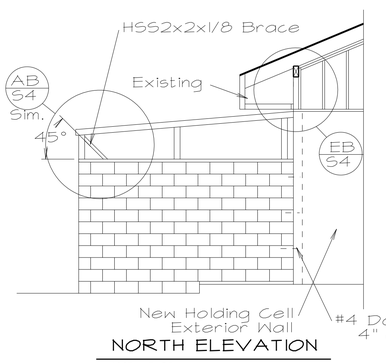
C2 LINTEL ELEVATION TYP.
3/4" = 1'-0"



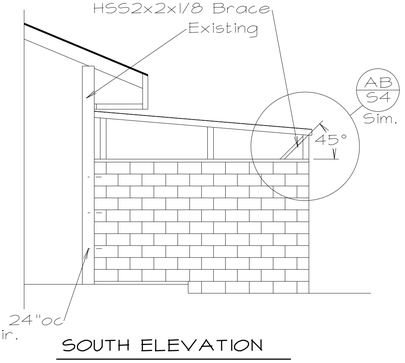
EAST ELEVATION
1/4" = 1'-0"



SECTION
1/4" = 1'-0"



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



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

See Architectural Elevations for Relative Heights

NEW HOLDING CELL PROJECT

DELENO / NORTH KERN COURT

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REGISTERED PROFESSIONAL ENGINEER STEPHEN MACIE No. 28063 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

REV 11/1/10

SHEET TITLE:

SHEET #: S4

GENERAL NOTES

MECHANICAL/PLUMBING WORK CONSISTS OF ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF THE SYSTEMS AS INDICATED ON THESE DRAWINGS.

SUBMITTAL REQUIREMENTS:

- WITHIN 15 DAYS OF CONTRACT AWARD, THE MECHANICAL/PLUMBING CONTRACTOR SHALL SUBMIT COMPLETE APPLICABLE PRODUCT, EQUIPMENT, AND MATERIAL INFORMATION. NO PRODUCT, EQUIPMENT, OR MATERIAL SHALL BE ORDERED OR INSTALLED UNTIL SUBMITTALS ARE APPROVED BY THE MECHANICAL ENGINEER. ANY ITEM NOT INCLUDED IN THE SUBMITTAL SHALL BE PROVIDED WITHOUT SUBSTITUTION. SUBMITTAL INFORMATION SHALL INCLUDE: MANUFACTURER'S NAME AND CATALOGUE NUMBERS, DIMENSIONS, CAPACITIES, PERFORMANCE CURVES, AND ALL OTHER CHARACTERISTICS AND ACCESSORIES AS LISTED IN THE CONTRACT DOCUMENTS. THE INFORMATION SHALL BE CURRENT MANUFACTURER'S SUBMITTALS AND BROCHURES.

- SUBMITTALS FOR ANY EQUIPMENT SUBSTITUTED AS EQUIVALENT TO THE SCHEDULED EQUIPMENT SHALL INCLUDE TABULATED COMPARISON DATA SO AS TO CLEARLY DEMONSTRATE EQUIVALENCY. THIS DATA SHALL SPECIFICALLY INCLUDE COMPARISONS BETWEEN SCHEDULED AND PROPOSED EQUIPMENT IN THE FOLLOWING AREAS:
  WEIGHT (INCLUDING CURBS AND ACCESSORIES)
  DIMENSIONS
  ELECTRICAL AND GAS REQUIREMENTS (VOLTAGE, PHASE, FULL LOAD AMPS & BTU)
  SOUND LEVELS (WHERE APPLICABLE)
  PERFORMANCE (EFFICIENCIES, HEATING, COOLING, AIR FLOW, STATIC PRESS.)

- THREE COPIES OF CLOSE OUT SUBMITTALS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF SYSTEM START-UP AND BALANCING. CLOSE-OUT SUBMITTALS SHALL INCLUDE THE FOLLOWING TEST REPORTS: HVAC EQUIPMENT OPERATING DATA AND AIR BALANCE, VALVES, THERMOMETERS, PRESSURE GAUGES, WATER METERS, WATER FEEDERS, AIR VENTS, TRAP PRIMERS, VACUUM BREAKERS, AND ALL OTHER APPLICABLE MECHANICAL/PLUMBING SYSTEM COMPONENTS.

- ALL WORK INDICATED ON THESE PLANS SHALL BE DONE IN COMPLIANCE WITH CURRENT STATE AND LOCAL CODES AND ALL APPLICABLE CALIFORNIA TITLE-24 REQUIREMENTS. IN THE EVENT OF CONFLICT BETWEEN CODES, THE MORE RESTRICTIVE REQUIREMENTS SHALL BE EXERCISED.

- NOTHING IN THESE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO CONFLICT WITH ANY CITY OR STATE LAW, REGULATION, CODE, ORDINANCE, RULING, OR FIRE UNDERWRITER'S REQUIREMENT APPLICABLE TO THIS CLASS OF WORK.

- CONSTRUCTION AND/OR ENGINEERING COSTS RESULTING FROM PRODUCT SUBSTITUTIONS SHALL BE PAID BY THE MECHANICAL/PLUMBING CONTRACTOR. APPROVAL OF SUBSTITUTED PRODUCTS DOES NOT NEGATE THIS OBLIGATION.

- THE MECHANICAL/PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF AIR TERMINALS WITH THE REFLECTED CEILING PLAN, AND VERIFY CORRECT LOCATION OF EQUIPMENT, PIPING, AND PLUMBING SERVICES BEFORE PROCEEDING WITH INSTALLATION.

- ALL LOCATIONS OF DUCTWORK, EQUIPMENT AND PIPING ARE SHOWN DIAGRAMMATICALLY. THE MECHANICAL/PLUMBING CONTRACTOR SHALL ADHERE TO LOCATIONS INDICATED ON THE DRAWINGS AS CLOSELY AS POSSIBLE, VARYING PIPE RUNS AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE PROJECT.

- THE MECHANICAL/PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ALL PLUMBING-RELATED EQUIPMENT, ACCESSORIES, AND CONTROLS.

- DUCT DIMENSIONS SHOWN ARE INTERNAL.

- ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED WITH AT LEAST THE MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCE ALLOWANCE FOR SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. FOR MAINTENANCE AND PROPER OPERATION.

- ALL MECHANICAL/PLUMBING DUCTING, PIPING, AND EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING SERVICES AS REQUIRED BY LOCAL BUILDING CODES.

- THE WORK UNDER THIS SECTION SHALL BE IN COOPERATION WITH THE WORK OF OTHER TRADES TO PREVENT CONFLICT OR INTERFERENCE AND TO AID RAPID COMPLETION OF THE OVERALL PROJECT.

- THE MECHANICAL/PLUMBING CONTRACTOR SHALL GUARANTEE THAT THE SYSTEMS INSTALLED ARE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, AND WILL WARRANT ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. THE MECHANICAL/PLUMBING CONTRACTOR SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL, WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED. IN ADDITION, THE MECHANICAL/PLUMBING CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS. IN THE EVENT OF FAILURE TO COMPLY WITH THE ABOVE-MENTIONED CONDITIONS WITHIN TEN (10) DAYS AFTER BEING NOTIFIED IN WRITING, THE MECHANICAL/PLUMBING CONTRACTOR SHALL COLLECTIVELY OR SEPARATELY AUTHORIZE THE OWNER TO PROCEED TO HAVE SAID DEFECTS REPAIRED AND MADE GOOD AT THE CONTRACTORS EXPENSE. THE CONTRACTOR WILL HONOR AND PAY THE SAID COSTS AND CHARGES ON DEMAND.

- BY JVA MECHANICAL ENGINEERING ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVED THESE DOCUMENTS AS ORIGINAL AND UNPUBLISHED WORK PRODUCT OF JVA MECHANICAL ENGINEERING AND THIS WORK SHALL NOT BE COPIED, DISCLOSED, OR USED IN CONNECTION WITH ANY WORK PROJECT OTHER THAN THE SPECIFIC PRODUCT FOR WHICH IT HAS BEEN PREPARED OR ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF JVA MECHANICAL ENGINEERING VISUAL CONTACT WITH THIS DOCUMENT SHALL CONSTITUTE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS AND CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF THE JOB. UPON DISCOVERY OF ANY VARIATION, DISCREPANCY, OR OMISSIONS, PLEASE NOTIFY JVA MECHANICAL ENGINEERING AND PRIOR TO PROCEEDING WITH RELATED WORK OBTAIN WRITTEN RESOLUTION FROM JVA MECHANICAL ENGINEERING

- THE MECHANICAL/PLUMBING CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF THE JOB. UPON DISCOVERY OF ANY VARIATION, DISCREPANCY, OR OMISSIONS, NOTIFY JVA MECHANICAL ENGINEERING AND PRIOR TO PROCEEDING WITH RELATED WORK, OBTAIN WRITTEN RESOLUTION FROM JVA MECHANICAL ENGINEERING

SPECIFICATIONS

MECHANICAL/PLUMBING: THE WORK UNDER THIS SECTION INCLUDES EVERYTHING NECESSARY FOR AND INCIDENTAL TO EXECUTING AND COMPLETING THE MECHANICAL/PLUMBING WORK, EXCEPT AS HEREINAFTER SPECIFICALLY EXCLUDED. WORK INCLUDED SHALL BE AS INDICATED ON THE DRAWINGS COMPLETELY INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- MECHANICAL EQUIPMENT
- AIR DISTRIBUTION
- CONTROLS
- START UP AND BALANCE
- SANITARY SOIL, WASTE, AND VENT SYSTEMS
- DOMESTIC WATER SYSTEMS
- PLUMBING FIXTURES AND EQUIPMENT
- REQUIRED SUPPORTS AND BLOCKING

RELATED WORK: THE FOLLOWING WORK SHALL NOT BE FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS BUT WILL BE INCLUDED IN OTHER SPECIFICATIONS SECTIONS:
- CUTTING, PATCHING, AND FURRING
- CONDUIT AND LINE VOLTAGE ELECTRICAL
- FINAL PAINTING
- ROOFING
- CONCRETE PLACEMENT

RIGID ROUND DUCTWORK AND FITTINGS:
- ALL RIGID ROUND DUCTWORK SHALL BE UNITED SHEET METAL SPIRAL LOCKSEAM DUCT, OR APPROVED EQUAL, MANUFACTURED FROM GALVANIZED STEEL MEETING THE ASTM A-527-71. ALL DUCT GAUGES SHALL CONFORM WITH TABLE 6-8, CMC 2007

- ALL FITTINGS SHALL BE MANUFACTURER AS SEPARATE FITTINGS. NO BRANCH TAPS WILL BE ALLOWED.

FLEXIBLE DUCT:
- FLEXIBLE AIR DUCTS SHALL BE THERMAFLEX M-KF(R=8.0), OR APPROVED EQUAL AND SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS. CONNECTIONS AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE 2007 CMC.

INTERIOR DUCTWORK SEALING:
- PROVIDE COMPLETE SEALING OF ALL DUCT CONNECTIONS WITH 'UNI-MASTIC 181' FIBER REINFORCED DUCT SEALER BY 'MCGILL AIRSEAL PRODUCTS.'

DUCT INSULATION:
- EXTERNAL DUCT INSULATION SHALL BE APPLIED TO ALL HEATING AND/OR COOLING DUCTS NOT INTERNALLY INSULATED AND NOT WITHIN CONDITIONED SPACES. MANVILLE MICROLITE FSK 1-1/2", R-SERIES, ALUMINUM FOIL REINFORCED WITH FIBERGLASS, SCRIM LAMINATED TO U.L. RATED KRAFT, WITH R=4.8, SHALL BE USED OR APPROVED EQUAL. CIRCUMFERENTIAL AND LONGITUDINAL SEAMS SHALL BE LAPPED MINIMUM OF 2" AND SECURED WITH 3" WIDE PRESSURE SENSITIVE FOIL VAPOR BARRIER TAPE. FURTHER ATTACH INSULATION TO THE DUCTWORK BY SPIRALING WIRE AT 12" CENTERS ITS ENTIRE LENGTH. THE FINISHED PRODUCT SHALL BE VAPOR-PROOF AND FREE OF SAGS.

EXECUTION (MECHANICAL):
- BENDING OR FORCING OF DUCTWORK IS NOT ALLOWED. USE FITTINGS FOR ALL OFFSETS OR CHANGES IN ALIGNMENT OF DUCTING.

- DUCTING SHALL BE FIRMLY HELD IN PLACE BY ADJUSTABLE HANGERS & SUPPORTS. ALL HANGERS AND SUPPORTS SHALL BE OF DESIGN WHICH WILL SUPPORT WEIGHT OF DUCT, INSULATION, AND PREVENT SAGGING. MAKESHIFT DEVICES ARE NOT ACCEPTABLE. PLUMBER'S TAPE IS NOT APPROVED.

- WHERE APPLICATIONS ARE NOT SPECIFICALLY COVERED IN THIS SECTION, FOLLOW MANUFACTURER'S INSTRUCTIONS. ALL DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT FOR APPROVAL BEFORE STARTING WORK.

- ALL EXPOSED DUCTWORK, TAPS AND REGISTERS SHALL BE LEVEL, STRAIGHT AND FREE OF DEFECTS. ALL DAMPERS AND REGISTERS MUST BE INSTALLED AS TO NOT WHISTLE OR RATTLE.

- ALL FLEXIBLE DUCTWORK MUST BE RUN AS STRAIGHT AS POSSIBLE WITHOUT TIGHT BENDS. USE AN ELBOW ANYWHERE A 2' RADIUS CANNOT BE ACHIEVED.

PLUMBING FITTINGS AND PIPING:
- SOIL, WASTE, AND VENT: ABOVE AND BELOW GRADE: PLASTIC ABS OR PVC PIPE AND FITTINGS WITH SOLVENT JOINTS.

- DOMESTIC WATER PIPING: ABOVE GRADE: TYPE 'L' COPPER TUBING HARD DRAWN WITH WROUGHT COPPER SOLDER FITTINGS. SOLDER WITH 95 – 5 TIN-ANTIMONY SOLDER.

PLUMBING FIXTURES:
- PLUMBING FIXTURES SHALL BE AS PER PLUMBING FIXTURE SCHEDULES-SEE PLANS

PIPING SPECIALTIES:
- SHUT-OFF VALVES (WATER): APOLLO, OR EQUIVALENT, FULL PORT BALL VALVE.

- SUPPLIES: ANGLE TYPE WITH TEE HANDLE STOP AND RIGID RISERS: "SPEEDWAY," R1700-S SERIES, ROBERT ML-600 SERIES OR EQUAL. P-TRAPS: CHROME PLATED BRASS 17 GAUGE WITH CP TUBING DRAIN TO WALL AND CLEAN-OUT PLUG. TRAP ARMS UNDER LAVATORIES, SINK, AND ESCUTCHEON AT WALL ALSO TO BE CHROME-PLATE

- FLOOR CLEANOUTS (FCO/COTG): J. R. SMITH #4810 COVER WITH U.P.C. BRONZE PLUG.

- WALL CLEANOUTS (WCO): TERRI, PRIME-COATED WITH U.P.C. BRONZE PLUG IN "NO-HUB" TEST-TEE.

PIPING HANGERS, SUPPORTS, AND ACCESS PANELS:
- PROVIDE HANGER SPECIFIED HEREIN. EQUIVALENT MODELS BY ELCEN, FEE & MASON OR KIN-LINE ARE ACCEPTABLE.

- ADJUSTABLE HANGERS WITH MINIMUM 3/8" RODS, UPPER ATTACHMENTS: B-LINE #B3690. PROVIDE SHIELDS AT INSULATED PIPING.

- TRAPEZE HANGERS: B-LINE #B22 WITH PIPE CLAMPS AND GUIDES AS REQUIRED.

- RISER CLAMPS: B-LINE #B3373.

- OFFSET PIPE CLAMPS: B-LINE #B3148.

- WATER PIPE ISOLATION: INCLUDE WITH HANGERS, 1/4" FELT OR APPROVED EQUIVALENT.

- ACCESS PANEL FOR VALVES: MILCOR PAINTED STEEL SIZE AS REQUIRED FOR EASY ACCESS MINIMUM SIZE 12" X 12".

PIPING INSULATION:
- DOMESTIC HOT WATER PIPING: ENGINEERED POLYMER FOAM INSULATION (EPFI) 3/4" WALL 'IMCOA' OR EQUIVALENT.

EXCAVATION AND BACKFILL:
- EXECUTE ALL EXCAVATION TO GRADES TO ACCOMMODATE ELEVATIONS INDICATED AND WHERE INVERT ELEVATIONS ARE NOT INDICATED, PROVIDE MINIMUM COVERAGE FOR ANY PIPING UNDER BUILDING SLAB (TOP OF PIPE TO UNDERSIDE OF SLAB) OF 18 INCHES.

- EXCAVATION FOR PIPE SHALL BE CUT A MINIMUM OF SIX INCHES BELOW THE REQUIRED GRADE. A SIX-INCH BED OF SAND OR OTHER APPROVED MATERIAL SHALL BE THEN PLACED AND PROPERLY COMPACTED TO PROVIDE AN ACCURATE GRADE AND UNIFORM BEARING THROUGHOUT THE LENGTH OF THE PIPE.

- SAND USED SHALL BE WASHED RIVER SAND NORMALLY USED FOR BACKFILL PURPOSES, FREE OF CLODS OR LUMPS OF CLAY, ROCK, DEBRIS, AND RUBBISH.

- BACKFILLING SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED, AND APPROVED.

- BACKFILL TO POINT 12 INCHES ABOVE TOP OF PIPING WITH FINE EARTH (EXCAVATED MATERIAL MAY BE USED) FREE OF EXCESSIVE AMOUNTS OF CLAY, DEBRIS, RUBBISH, ROCKS, OR CLODS, AS APPROVED BY THE ARCHITECT. BACKFILL ABOVE 12 INCHES FROM TOP OF PIPING MAY BE WITH EXCAVATED MATERIAL. APPLY BACKFILL BY HAND IN 6-INCH DEEP LAYERS THE FULL WIDTH OF THE TRENCH. MOISTEN EACH LAYER (DO NOT FLOOD OR PUDDLE), AND HAND TAMP TO MINIMUM 90 PERCENT COMPACTION BEFORE PROCEEDING WITH THE NEXT LAYER OF BACKFILL.

- CLODS OR LUMPS ONE INCH IN SIZE OR LARGER WILL NOT BE PERMITTED IN THE BACKFILL. IF THE EXCAVATED MATERIAL IS NOT SUITABLE, ADEQUATE MATERIAL SHALL BE PROVIDED BY HAULING IN FROM OTHER LOCATIONS.

- SURPLUS EARTH OR MATERIAL REMAINING AFTER BACKFILLING SHALL BE REMOVED FROM THE SITE AS INDICATED IN SECTION ENTITLED "EARTHWORK."

- DO NOT EXCAVATE UNDER OR NEAR FOUNDATIONS OR FOOTINGS EXCEPT IN MANNER PERMITTED AND APPROVED BY THE ARCHITECT. DO NOT BACKFILL UNTIL INSTALLED PIPING HAS BEEN SUCCESSFULLY TESTED AND APPROVED FOR BACKFILL BY THE JURISDICTIONAL INSPECTOR AND THE ARCHITECT.

- PROVIDE SLEEVES AT ALL PIPE PENETRATIONS OF FOOTING AND FOUNDATIONS.

EXECUTION (PLUMBING):
- SOIL, WASTE AND VENT PIPING IS TO BE ASSEMBLED, CONNECTED, AND SUPPORTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ENCASE BELOW GRADE SOIL, WASTE, AND VENT PIPING IN SAND, 6" ALL AROUND PIPE. WRAP PENETRATIONS OF CONCRETE SLAB WITH FOAMED PLASTIC SLEEVING MATERIAL. ALL SOIL, WASTE, AND VENT PIPING SHALL HAVE A SMOOTH AND UNIFORM INVERT, AND BACK-FILLED SO AS NOT TO DISTURB THE PIPE OR JOINTING.

- JOINTS IN COPPER TUBING SHALL BE MADE BY FIRST THOROUGHLY CLEANING THE SURFACE OF THE PIPE AND FITTINGS, APPLYING A COPPERIZED FLUX AND SWEAT WITH 95 – 5 TIN ANTIMONY SOLDER OR EQUIVALENT LEAD-FREE SOLDER.

- FLUSH OUT ALL WATER MAINS, CONDENSATE DRAINS, SANITARY, AND STORM PIPING WITH WATER SO AS TO OBTAIN FREE FLOW.

- ALL PIPING, EXCEPT WHERE NOTED OTHERWISE ON PLANS, SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS. COORDINATE PIPING LOCATION WITH DUCTWORK AND CONDUIT.

- BENDING OR FORCING OF PIPE IS NOT ALLOWED. USE FITTINGS FOR ALL OFFSETS OR CHANGES IN ALIGNMENT OF PIPING.

- CLEANOUTS SHALL BE ACCESSIBLE IN ALL CASES AND SHALL BE BROUGHT TO SURFACE ON "Y" BRANCHES. ALL CLEANOUTS SHALL BE PROVIDED WITH REMOVABLE FLOOR OR WALL PLATES.

- PIPING SHALL BE FIRMLY HELD IN PLACE BY ADJUSTABLE HANGERS, SUPPORTS, AND PIPE RESTS. ALL HANGERS AND SUPPORTS SHALL BE OF DESIGN WHICH WILL SUPPORT WEIGHT OF PIPE, FLUID, INSULATION, AND PREVENT SAGGING. MAKESHIFT DEVICES ARE NOT ACCEPTABLE. PLUMBER'S TAPE IS NOT APPROVED.

- PIPING SHALL BE ISOLATED FROM ALL DIRECT CONTACT WITH THE STRUCTURE BY THE USE OF MANUFACTURED HANGER ISOLATORS AND STUD ISOLATION DEVICES.

- INSTALL ALL FIXTURES AND EQUIPMENT PER MANUFACTURER'S ROUGH-IN AND INSTALLATION INSTRUCTIONS. INSTALL HANDICAPPED FIXTURES PER TITLE 24 AND A.D.A. REQUIREMENTS. PROVIDE 17 GAUGE CHROME PLATED P-TRAPS, ANGLE STOPS AND FLEXIBLE RISERS, SUPPORT PLATES, ETC., AS REQUIRED.

- PROVIDE FIRE STOPPING AND SLEEVES FOR PIPING PENETRATIONS OF FIRE-RATED WALLS, FLOORS, AND CEILINGS. METHOD OF SLEEVING AND FIRE STOPPING SHALL BE APPROVED BY FIRE MARSHALL.

PLUMBING TEST AND ADJUSTMENTS:
- ALL WORK SHALL BE COMPLETELY INSTALLED, SANITIZED, AND TESTED AS REQUIRED BY LOCAL CODE AND THE STATE ORDINANCES AND STATE SAFETY ORDERS, AND SHALL BE LEAK-TIGHT BEFORE INSPECTION IS REQUESTED. ALL TESTS SHALL BE REPEATED UPON REQUEST TO THE SATISFACTION OF THOSE MAKING THE INSPECTION.

TITLE 24 MANDATORY MEASURES

VENTILATION
- CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.

- 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.

- 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.

- AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983),OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989).

- 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.

ENVELOPE MANDATORY MEASURES
- INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

- ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF §2602 AND §707 OF TITLE 24, PART 2.

- DEMISING WALL INSULATION (R-11) SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

CONTROLS
- EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF §112(B) 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 HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.

- EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING THERMOSTAT SETPOINT.

- EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55°F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85°F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST

- 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.

- THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F.

SERVICE WATER HEATING SYSTEMS
THE FOLLOWING SERVICE WATER HEATING SYSTEMS AND EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN THE APPLIANCE EFFICIENCY REGULATIONS.

- UNFIRED SERVICE WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER HEATING SYSTEMS SHALL HAVE EITHER: EXTERNAL INSULATION WITH AN INSTALLED R-VALUE OF AT LEAST R-' R-16; OR SUFFICIENT INSULATION SO THAT THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80°F WATER-AIR TEMPERATURE DIFFERENCE SHALL BE LESS THAN 6.5 BTU/HR/SF.

- 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.

LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH EITHER:
- OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.

- FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.

- PROXIMITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.

- SELF-CLOSING VALVES AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.25 GALLONS/CYCLE (CIRCULATING SYSTEM).

- SELF-CLOSING VALVES AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLONS/CYCLE (NON-CIRCULATING SYSTEM).

- SELF-CLOSING VALVES AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.75GALLONS/CYCLE (FOOT SWITCHES AND PROXIMITY SENSOR CONTROLS). LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110°F.

HVAC LEGEND

SYMBOL	DESCRIPTION	ABBREV.	SYMBOL	DESCRIPTION	ABBREV.	SYMBOL	DESCRIPTION	ABBREV.
	SUPPLY AIR DIFFUSER	SA		RECTANGULAR DUCT	–	VD	VOLUME DAMPER	VD
	RETURN AIR GRILLE	RA		LINED RECTANGULAR DUCT	–	FD	FIRE DAMPER	FD
	EXHAUST AIR GRILLE	EA	FLEXIBLE DUCT IF NOTED	RIGID ROUND DUCT	–	SD	SMOKE DECTECTOR	SD
	CEILING EXHAUST FAN	CEF		FLEXIBLE ROUND DUCT	–		FLEXIBLE CONNECTION	FC
	SIDEWALL GRILLE, REGISTER, OR LOUVER	–		POINT OF CONNECTION OR DISCONNECTION	POC/POD	T S	THERMOSTAT SENSOR	–
MARK CFM	GRILLE, DIFFUSER, REGISTER, OR LOUVER TAG	–	Ø	DIAMETER	DIA		EQUIPMENT OR DUCTWORK TO BE REMOVED	–

HVAC ABBREVIATIONS

ABV	ABOVE
A/C	AIR CONDITIONING, CONDITIONER
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL, ARCHITECT
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CAP	CAPACITY
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
CONN	CONNECTION
CSE	CALIFORNIA SEASONAL EFFICIENCY
CTE	CAP TO EXISTING
CU	CONDENSING UNIT
DET	DETAIL
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
FA	FACE AREA
FAU	FORCED AIR UNIT
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	U.S. GAUGE (OR GAGE)
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
HP	HORSEPOWER
HR	HOUR, HOURS
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
LBS	POUNDS
KBH	BTU PER HOUR (THOUSANDS)
MC	MECHANICAL CONTRACTOR
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
(N)	NEW
N/A	NOT APPLICABLE
NFA	NET FREE AREA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OPER	OPERATING
OSA	OFFICE OF STATE ARCHITECT
PC	PLUMBING CONTRACTOR
PLMG	PLUMBING
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REV	REVISION
RND	ROUND
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SHT	SHEET
SQ	SQUARE
SSE	STEADY STATE EFFICIENCY
TA	TRANSFER AIR
TBR	TO BE REMOVED
TEMP	TEMPERATURE
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VD	VOLUME DAMPER
W/	WITH
W/O	WITHOUT
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WT	WEIGHT
WFB	WALL FIRE DAMPER
(X2)	TYPICAL OF 2

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABB.	SYMBOL	DESCRIPTION	ABB.	SYMBOL	DESCRIPTION	ABB.
	SOIL, WASTE, OR SEWER	W		PIPE CONNECTION	–		POINT OF CONNECTION/DIS.	POC/POD
	GREASE WASTE	GW		CAPPED OR PLUGGED PIPE	–		FIXTURE GAS SUPPLY	–
	STORM/OVERFLOW DRAIN	SD/OD		PIPE OR EQUIP. T.B.R.	–		WATER HAMMER ARRESTOR	WHA
	VENT	V		HOSE BIB	HB		GATE VALVE	–
	CONDENSATE DRAIN	COND		RECESSED HOSE BIB	RHB		BALL VALVE	–
	COLD WATER	CW		FIRE RISER	–		GLOBE VALVE	–
	COLD WATER TRAP PRIMER	–		FIRE DEPARTMENT CONNECTION	FDC		GAS COCK	–
	HOT WATER SUPPLY	HW		FLOOR CLEAN OUT	FCO		CHECK VALVE	–
	HOT WATER RECIRCULATION	HWR		CLEAN OUT TO GRADE	COTG		DOUBLE CHECK VALVE	–
	GAS LINE	G		WALL CLEAN OUT	WCO		VALVE IN RISER	–
	PIPE UP	–		FLOOR SINK	–		AUTOMATIC AIR VENT	AAV
	PIPE DOWN	–		FLOOR DRAIN	–		VALVE IN YARD BOX	–

PLUMBING ABBREVIATIONS

AA	AREA ALARM
ABV	ABOVE
ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
ARCH	ARCHITECTURAL, ARCHITECT
B	BATHTUB
BEH	BEHIND
BEL	BELOW
BLDG	BUILDING
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CLG	CEILING
CP	CHROME PLATED
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
(E)	EXISTING
ELEC	ELECTRICAL
ESH	EMERGENCY SHOWER
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FD	FLOOR DRAIN
FF	FINISH FLOOR
FG	FINISH GRADE
FS	FLOOR SINK
FT	FLUSH TANK OR FEET
FU	FIXTURE UNITS
FV	FLUSH VALVE
GA	GAUGE (OR GAGE)
GALV	GALVANIZED
GO	GAS OUTLET
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
LH	LEFT HAND
L	LAVATORY
KW	KILLOWATTS
LBS	POUNDS
MBTUH	BTU PER HOUR (THOUSANDS)
MFR	MANUFACTURE, MANUFACTURER
MH	MANHOLE
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	PUMP
PH	PHASE
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RH	RIGHT HAND
RI&C	ROUGH IN AND CONNECT
RPM	REVOLUTIONS PER MINUTE
RM	ROOM
S	SINK
SD	STORM DRAIN
SH	SHOWER
SOV	SHUT OFF VALVE
TA	TEMPERATURE
TV	ALARM TEMPERING VALVE
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL
URN	URINAL
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VS	VACUUM SWITCH
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCH	WATER CHILLER
WH	WATER HEATER
WT	WEIGHT
W/	WITH
W/O	WITHOUT
ZV	ZONE VALVE

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REGISTERED PROFESSIONAL ENGINEER ★ JAMES L. VAN DE VANTER ★ M31205 EXP. 12/31/11 ★ MECHANICAL ★ STATE OF CALIFORNIA

PROJECT TITLE:
DELANO/NORTH KERN COUNTY COURT
1122 JEFFERSON STREET
DELANO, CA

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SHEET TITLE AND DESCRIPTION:
GENERAL NOTES, SPECIFICATIONS LEGENDS, MANDATORY MEASURES & ABBREVIATIONS

DATE	REMARKS
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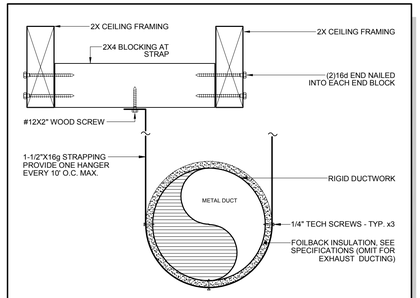
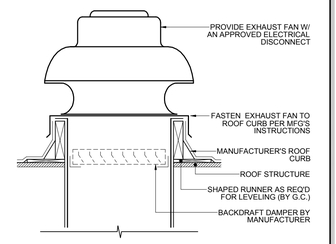
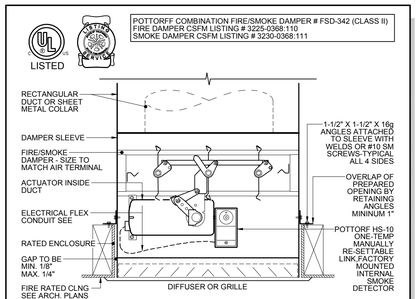
SHEET
GENERAL NOTES, SPECIFICATIONS LEGENDS, MANDATORY MEASURES & ABBREVIATIONS
MP1.1



41 RIGID DUCT SUPPORT
NO SCALE



31 ROOF MOUNTED EXHAUST FAN
NO SCALE



32 3-HOUR CEILING FIRE/SMOKE DAMPER
NO SCALE

PLUMBING FIXTURE SCHEDULE

SYMBOL	MAKE & MODEL	DESCRIPTION	ROUGH IN SIZES				FITTINGS OR ACC.	NOTES
			HW	CW	W	V		
WC-1	ACORN #1418-FA-CT-2-BP-4 STAINLESS STEEL	FLOOR MOUNTED, VANDAL/SUICIDE RESISTANT COMBINATION WATER CLOSET/LAVATORY	1/2"	1-1/4"	3"	2"	PUSH BUTTON FLUSH VALVE BY OTHERS, AIR-TROL HW & CW LAVATORY VALVE, & SHOKTROL WATER HAMMER ARRESTOR	ALL APPLY
FD-1	J.R. SMITH SERIES # 2005Y02-A05PB-U	5"Ø, CAST IRON FLOOR DRAIN WITH BRONZE STRAINER	–	1/2"	2"	1-1/2"	PROVIDE WITH 'PRECISION PRODUCTS' PRIME-RITE TRAP PRIMER EXPOSED MOUNT IN PLUMBING CHASE	–

NOTES:
1. ALL FIXTURES DESIGNATED TO BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES SHALL BE IN ACCORDANCE WITH THE "AMERICANS WITH DISABILITIES ACT OF 1990" FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 – "PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE" AND/OR GOVERNING CODE.
2. ALL PLUMBING FIXTURES, EQUIPMENT, TRIM, AND FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING BUT NOT LIMITED TO WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTORS BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH THE GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR THE COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS AND CODES
3. MAXIMUM ALLOWABLE WATER USAGE: WC = 1.6 GPF LAV = 0.5 GPM URN = 1.0 GPF SK = 0.5 GPM

AIR TERMINAL SCHEDULE

SYMBOL	MFG	MODEL	NECK SIZE	BORDER	CONST.	FINISH	OBD	NOTES
CSD-1	TITUS	SG-PR	10"X10"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	2
CSD-2	TITUS	MCD	10"X10"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	2
CRG-1	TITUS	350RL	10"X10"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	1
CEG-1	TITUS	SG-PR	10"X10"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	1

NOTES:
1. PAINT GRILLE CANS FLAT BLACK INSIDE
2. MATCH DEFLECTIONS SEEN ON PLAN

LEGEND

MOUNTING LOCATION		FUNCTION		DEVICE	
C	CEILING	E	EXHAUST	D	DIFFUSER
D	DUCT	R	RETURN	G	GRILLE
Dr	DOOR	S	SUPPLY	R	REGISTER
W	WALL	I	INTAKE	L	LOUVER
F	FLOOR	V	VENTILATION	S	SLOT

EXAMPLE: CSD=CEILING SUPPLY DIFFUSER

EXHAUST FAN SCHEDULE

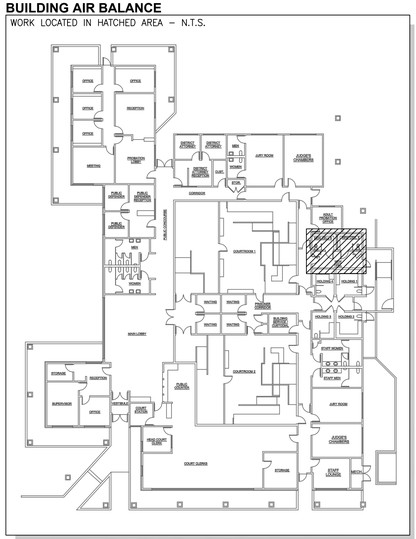
SYMBOL	MFG	MODEL	STYLE	LOCATION	POWER	DRIVE	CFM	E.S.P. "W.C.	HP	BHP	RLA	FRPM	WEIGHT (LBS)	NOTES
EF-1	GREENHECK	GB-081	DOME	ROOF	115/120-1-60	BELT	300	0.75	1/6	0.08	–	1361	58	ALL APPLY

NOTES:
1. INTERLOCK WITH EXISTING AC UNIT, BY EC
2. PROVIDE FACTORY ROOF CURB. BIRD SCREEN, & BACK DRAFT DAMPER

MECHANICAL - FLOOR PLAN
1/4" = 1'-0"

PLUMBING - FLOOR PLAN
1/4" = 1'-0"

BUILDING AIR BALANCE
WORK LOCATED IN HATCHED AREA – N.T.S.



REFERENCE NOTES

1. 1-1/4"CW DOWN PLUMBING CHASE. PROVIDE FULL PORT BRASS SOV & WATER HAMMER ARRESTOR, 1" TO COMBINATION WATER CLOSET LAVATORY UNIT, & 1/2" TRAP PRIMER TO FLOOR DRAIN 'P' TRAP WITH SHUTOFF VALVE AHEAD OF PRIMER VALVE & AN APPROVED AIR-GAP ON THE OUTLET SIDE OF THE TRAP PRIMER VALVE – TYPICAL
2. 1/2"HW DOWN PLUMBING CHASE TO LAVATORY CONNECTION. PROVIDE FULL PORT BRASS SOV – TYPICAL
3. 4" CLEANOUT ON EXPOSED WASTE PIPING – TYPICAL

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SHEET TITLE AND DESCRIPTION:
MECHANICAL/PLUMBING FLOOR PLANS

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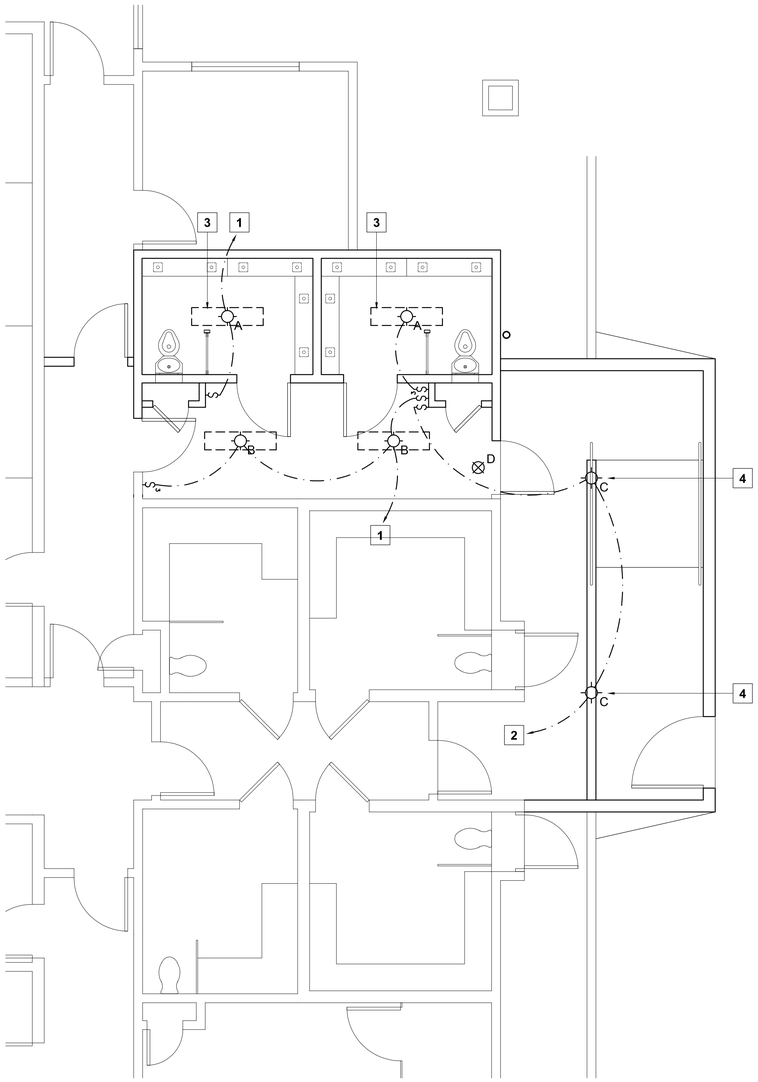
MECHANICAL/PLUMBING FLOOR PLANS
MP2.1



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LIGHTING PLAN

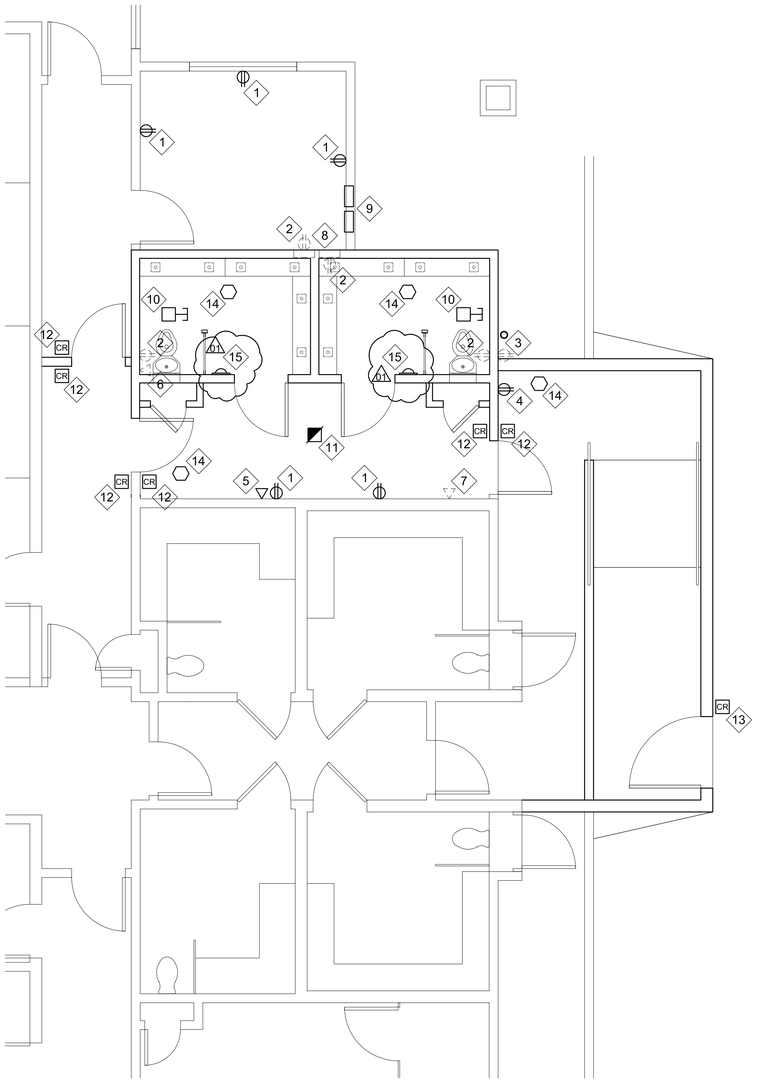
SCALE : 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

TYPE	MFGR	CATALOG NO.	LAMP(S)	REMARKS
A	KENALL	SDSAT5	2 - 28W T5 fluor.	"Mighty Mac" ceiling surface linear correctional fixture, 16 GA housing, white finish, prismatic polycarbonate lens, Torx fasteners
B	KENALL	SCT4	3 - 28W T5 fluor.	"Mighty Mac" ceiling surface linear high-abuse fixture, 16 GA housing, white finish, prismatic polycarbonate lens
C	KENALL	H1212FM	2 - 32W PLT fluor.	Herculux ceiling mounted high-abuse wet location fixture, dark bronze finish, clear prismatic lens
D	KENALL	METSU	LED	Millenium Metrex ceiling canopy mounted correctional fixture, white with red graphics, EL emergency battery option

LIGHTING KEYNOTES

1. POWER FROM EXISTING CEILING LIGHTING CIRCUIT(S).
2. POWER FROM NEW SPARE CIRCUIT ON PANEL "A".
3. SEE DETAIL 34, SHEET A.5, FOR MOUNTING AND FIRESTOPPING.
4. MOUNT DIRECTLY TO STEEL ROOF STRUCTURE WITH MECHANICAL CONNECTORS TO RESIST 500 LBS. VERTICAL OR LATERAL FORCE.



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POWER / SIGNAL PLAN

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

POWER, SIGNAL KEYNOTES

1. EXISTING WALL POWER OUTLET TO REMAIN.
2. EXISTING WALL POWER OUTLET, BOX, AND CONDUIT TO BE REMOVED.
3. EXISTING WP POWER OUTLET TO BE REMOVED, CONDUIT/WIRING TO BE RELOCATED.
4. NEW WP AND TAMPER PROOF POWER OUTLET WITH RELOCATED CONDUIT/WIRING.
5. EXISTING WALL COMMUNICATIONS OUTLET TO REMAIN.
6. EXISTING WALL COMMUNICATIONS OUTLET, BOX, CONDUIT TO BE REMOVED.
7. EXISTING PAY PHONE OUTLET, BOX, CONDUIT TO BE REMOVED.
8. EXISTING EMERGENCY CALL ANNUNCIATOR AND FIRE ALARM PANEL TO BE RELOCATED.
9. NEW LOCATION OF EMERGENCY CALL ANNUNCIATOR AND FIRE ALARM PANEL.
10. NEW DUCT SMOKE DETECTOR, WIRED TO RELOCATED FIRE ALARM PANEL.
11. NEW CEILING SMOKE DETECTOR, WIRED TO RELOCATED FIRE ALARM PANEL.
12. NEW CARD READER DOOR ACCESS CONTROL; PROVIDE CONCEALED CONDUIT AND WIRING AS REQUIRED TO ACTUATE ELECTRIC DOOR STRIKE; POWER TRANSFORMER(S) FROM SPARE CIRCUIT ON PANEL "B".
13. NEW CARD READER GATE ACCESS CONTROL; PROVIDE CONCEALED CONDUIT AND WIRING AS REQUIRED TO ACTUATE ELECTRIC DOOR STRIKE.
14. NEW BOX AND MOUNTING PLATE FOR CCTV VIDEO CAMERA; PROVIDE CONDUIT AS REQUIRED FOR SYSTEM VENDOR TO CONNECT TO MONITORING STATION.
15. AUDIO MONITORING MICROPHONE, RECESSED WALL-MOUNTED AT +90"; PROVIDE CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED TO MONITORING STATION. 01

PROJECT

NEW HOLDING CELL PROJECT

DELANO / NORTH KERN COURT

1122 JEFFERSON ST.
DELANO, CALIFORNIA

CLIENT JOB # 1027073

ARCHITECT JOB # 1002

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER BDF

DRAWN BY BS

DATES
07-07-10
09-10-10
01 10-18-10 PLAN CHECK 1
11-23-10 PLAN CHECK 2

SIGNED

LICENSED ARCHITECT
BRUCE DOUGLAS FRASER
C 9787
EXPIRES 12-31-10
STATE OF CALIFORNIA

SHEET TITLE

LIGHTING PLAN,
POWER / SIGNAL PLAN

SHEET #

E.1