SOLANO COMMUNITY COLLEGE RESTROOM BUILDING 2600 BUILDING 1800-B, INCREMENT #2

4000 SUISUN VALLEY ROAD FAIRFIELD, CALIFORNIA

ABBREVIATIONS

| &c | AND | DR. | DOOR | HDWD. | HARDWOOD | D | RISER/RADIUS |
|----------|--|----------------|--|----------------|---|-------------------------|--------------------------|
| 0 | AT | DWR. | DRAWER | HDWE. | HARDWARE | R. R.D. REF. | ROOF DRAIN |
| * | CENTERLINE | DNK. DS. | DOWNSPOUT | | | K.D. | ROOF DRAIN |
| 4 | | D C D | | H.M. | HOLLOW METAL | REF. | REFRIGERATOR |
| SP Ch | DIAMETER/ROUND | D.S.P. | DRY STANDPIPE | HORIZ. | HORIZONTAL | REINF. | REINFORCED |
| E. | PLATE/PROPERTY LINE | DWG. | DRAWING | HR. | HOUR | REQ'D. | REQUIRED |
| 先、 | POUND/NUMBER | | , A. | HT. | HEIGHT | RESIL. | RESILIENT |
| DENRA.B. | DEMOLITION | E. EA. | EAST | | 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. | RM. R.O. RWD. | ROOM |
| (E) | EXISTING | EA. | EACH | I.D. | INSIDE DIAMETER/DIMENSION | R.O. | ROUGH OPENING |
| (N) | NEW | E.J. | EXPANSION JOINT | INSUL. | INSULATION | RWD. | REDWOOD |
| (R) | REMOVE | EL. | ELEVATION | INT. | INTERIOR | R.W.L. | RAIN WATER LEADER |
| A.B. | AGGREGATE BASE | ELEC. | ELECTRICAL | | | | |
| A/C | ASPHALT CONCRETE | ELEV. | ELEVATOR | JAN. | JANITOR | S. S.C. | SOUTH |
| ACC. | ACCESSIBLE ACOUSTICAL ADJUSTABLE | EMER. | EMERGENCY ENCLOSURE | JT. | JOINT | S.C. | SOLID CORE |
| ACCUS. | ACOUSTICAL | ENCL. | ENCLOSURE | | | SCHED. | SCHEDULE |
| ADJ. | ADJUSTABLE | E.P. | ELECTRICAL PANELBOARD | KIT. | KITCHEN | SECT. | SECTION |
| ALUM. | ALUMINUM | EQ. | EQUAL | | | SH. | SHELF |
| APPROX. | APPROXIMATE | EQUIP. | EQUIPMENT | LAB. | LABORATORY | SHWR. | SHOWER |
| ARCH. | ARCHITECTURAL | E.W.C. | ELECTRIC WATER COOLER | LAM. | LAMINATE | SHT. | SHEET |
| ASB. | ASBESTOS | EXIST. | EXISTING | LAV. | LAVATORY | SIM. | SIMILAR |
| | | EXP. | EXPANSION | LKR. | LOCKER | SPEC. | SPECIFICATION |
| BD. | BOARD | EXT. | EXTERIOR | LT. | LIGHT | SO. | SQUARE |
| BIT. | BITUMINOUS | EA 11 | | i 3 • | mor: | SQ. S.S. | STAINLESS STEEL |
| BLDG. | BUILDING | F.A. | FIRE ALARM | MAX. | MAXIMUM | STA. | STATION |
| BLK. | BLOCK | F.B. | FLAT BAR | M.C. | MEDICINE CABINET | STD. | STANDARD |
| BLKG. | BLOCKING | F.D. | FLOOR DRAIN | MECH. | MECHANICAL | 3 IV. | SIANDARD |
| BM. | BEAM | F.D. F.D.C. | | MECH. | | OIL. | STEEL |
| DM. | DCAM DOTTOLA | r.D.G. | FIRE DEPARTMENT CONNECTION | MEMB. | MEMBRANE | STL. STOR. STRUC. | STORAGE |
| BTM. | ВОТТОМ | FDN. | FOUNDATION | MFR. | MANUFACTURER | Siruu. | STRUCTURAL |
| 045 | A PRINT | F.E. F.E.C. | FIRE EXTINGUISHER | MH. | MANHOLE | SUSP. | SUSPENDED |
| CAB. | CABINET | r.E.C. | FIRE EXTINGUISHER CABINET | MIN. | MINIMUM | S.V. | SHEET VINYL |
| C.B. | CATCH BASIN | F.F. | FINISH FLOOR FIRE HYDRANT | MISC. | MISCELLLANEOUS | SYM. | SYMMETRICAL |
| CEM. | CEMENT | F.H. | FIRE HYDRANI | M.O. | MASONRY OPENING | _ | |
| CER. | CERAMIC | F.H.V.C. | FIRE HOSE VALVE CABINET | MTD. | MOUNTED | Ţ | TREAD |
| C.G. | CORNER GUARD | FIN. | FINISH | MTL. | METAL | T.C. | TOP OF CURB |
| C.I. | CAST IRON | FLR. | FLOOR | MUL. | MULLION | TEL. | TELEPHONE |
| C.I.D. | CLEAR INSIDE DIMENSION | FLASH. | FLASHING | | | TER. | TERAZZO |
| C.J. | CONTROL JOINT | FLUOR. | FLUORESCENT | N. | NORTH | T.&G. | TONGUE AND GROOVE |
| CLG. | CEILING | F.O. | FACE OF | N.I.C. | NOT IN CONTRACT | THK. | THICK |
| CLKG. | CAULKING | F.O.C. | FACE OF CONCRETE/CURB | NO./# | NUMBER | T.O. | TOP OF |
| CLO. | CLOSET | F.O.F. | FACE OF FINISH | NOM. | NOMINAL | T.O.F. | TOP OF FRAMING |
| CLR. | CLEAR | F.O.M. | FACE OF MASONRY | N.T.S. | NOT TO SCALE | T.O.S. | TOP OF STEEL |
| CNTR. | COUNTER | F.O.S. | FACE OF STUDS | | | T.V. | TELEVISION |
| C.O. | CASED OPENING | FPRF. | FIREPROOF | 0/ | OVER | T.W. | TOP OF WALL |
| COL. | COLUMN | F.R.T. | FIRE RETARDANT TREATED | O.A. | OVERALL | TYP. | TYPICAL |
| CONC. | CONCRETE | F.S. | FULL SIZE | O.C. | ON CENTER | | |
| CONN. | CONNECTION | FT. | FOOT/FEET | O.D. | OUTSIDE DIAMETER/DIMENSION | U.O.N. | UNLESS OTHERWISE NOTED |
| CONSTR. | CONSTRUCTION | FTG. | FOOTING | OFF. | OFFICE | UR. | URINAL |
| CONT. | CONTINUOUS | FURR. | FURRING | 0.H. | OVERHEAD | •110 | |
| COORD. | COORDINATE | FUT. | FUTURE | OPNG. | OPENING | VERT. | VERTICAL |
| CORR. | CORRIDOR | . • | | OPP. | OPPOSITE | VEST. | VESTIBULE |
| CPT. | CARPET | GA. | GAUGE | Φ ε 1 • | OI I OOI IE | VCT. | VINYL COMPOSITION TILE |
| CTSK. | COUNTERSUNK | GALV. | GALVANIZED | P.C. | PRECAST | 101. | VIIVIE COMI COMICION MEL |
| 010(1) | OODIT I EKSOMK | G.B. | GRAB BAR | P.I.V. | POST INDICATOR VALVE | W. | WEST |
| DBL. | DOUBLE | G.F.R.G. | GLASS FIBER REINFORCED GYPSUM | PL. | PLATE | W / | WITH |
| DEPT. | DEPARTMENT | | | D.M. | | W/ W.C. | |
| DET. | DETAIL | G.I. | GALVANIZED IRON | P.M. | PRESSED METAL | H.O. | WATER CLOSET |
| | | GL. | GLASS | PLAS. | PLASTER/PLASTIC | WD. | WOOD |
| D.F. | DRINKING FOUNTAIN | GND. | GROUND | PLYWD. | PLYWOOD | w/o | WITHOUT |
| DIA. | DIAMETER | GR. | GRADE | PR. | PAIR | WP. | WATERPROOF |
| DIM. | DIMENSION | GYP. | GYPSUM | PT. | POINT TOTAL TER | WSCT. | WAINSCOT |
| DISP. | DISPENSER | | NOOE SIDE | P.T. | PRESSURE TREATED | WT. | WEIGHT |
| DN. | DOWN | H.B. | HOSE BIBB | ^- | ALLED VITE | | TD 1110H071 'TT |
| D.O. | DOOR OPENING | H.C. | HOLLOW CORE | Q.T. | QUARRY TILE | XFMR. | TRANSFORMER |
| | | | | | | | |

PROJECT SUMMARY

SOLANO COMMUNITY COLLEGE 4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534 TELEPHONE: (707) 864-7189 FACSIMILE: (707) 864-7192

> KITCHELL CEM 4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534 TELEPHONE: (707) 864-7189 FACSIMILE: (707) 807-0423

DESCRIPTION: CONSTRUCTION OF NEW RESTROOM BUILDING FOR BUILDING 1800-B OCCUPANTS

OCCUPANCY

CONSTRUCTION TYPE: TYPE V-N NON-SPRINKLED

AREA CALCS: 757 SF

PARTIAL LIST OF

APPLICABLE

STANDARDS:

CONSTRUCTION

MANAGER:

APPLICABLE CODES: 2001 BUILDING STANDARDS ADMINSTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2001 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2001 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24 C.C.R. 2001 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2001 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.

2001 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. 2001 CALIFORNIA REFERENCED STANDARDS, PARTS 12, TITLE 24 C.C.R. 1990 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2001 CBC (SFM) 3504.1

NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 1999 EDITION (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES") NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2000 EDITION NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2000 EDITION REFERENCE CODE SECTION FOR NFPA STANDARDS

PROJECT TEAM

CUNNINGHAM ENGINEERING 2940 SPAFFORD STREET DAVIS, CALIFORNIA 95616 TELEPHONE: (530) 758-2026 FACSIMILE: (530) 758-2066 **STRUCTURAL** BUEHLER & BUEHLER M. NEILS ENGINEERING 10 FULLERTON COURT, #201 600 Q STREET, SUITE 200 SACRAMENTO, CALIFORNIA 95814 SACRAMENTO, CALIFORNIA 95825 TELEPHONE: (916) 923-4400 TELEPHONE: (916) 443-0303 FACSIMILE: (916) 443-0313 FACSIMILE: (916) 923-4410

ARCHITECTURAL DREYFUSS & BLACKFORD 3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA 95816 TELEPHONE: (916) 453-1234 FACSIMILE: (916) 453-1236

MECHANICAL CAPITAL ENGINEERING CONSULTANTS 11020 SUN CENTER DRIVE, SUITE 100 SACRAMENTO, CALIFORNIA 95826 TELEPHONE: (916) 386-8888 FACSIMILE: (916) 386-2610

A0.1 COVER SHEET

DRAWING INDEX

S3.1 DETAILS C-1 CIVIL IMPROVEMENT PLANS SITE GRADING AND UTILITY PLAN

ARCHITECTURAL

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FIXTURE ACCESSIBILITY STANDARDS

A3.1 BUILDING ELEVATIONS A3.2 BUILDING SECTIONS PLUMBING A5.1 INTERIOR ELEVATIONS AND

A8.1 DETAILS A8.2 DETAILS

ELECTRICAL

ELECTRICAL SHEET INDEX. SYMBOL LIST. ABBREVIATIONS AND GENERAL NOTES SITE PLAN - ELECTRICAL ONE LINE POWER DIAGRAM AND PANEL

FLOOR PLANS - LIGHTING AND POWER FLOOR PLAN - FIRE ALARM & RISER DIAGRAM FIRE ALARM SCHED, NOTES, DETAILS &

CALCULATIONS ELECTRICAL DETAILS MECHANICAL LEGEND & GENERAL NOTES

T-24 TITLE 24 LIGHTING COMPLIANCE FORMS

STRUCTURAL

MECHANICAL

SCHEDULES

GENERAL NOTES

TYPICAL DETAILS

FOUNDATION & ROOF FRAMING PLANS

PLUMBING LEGEND, SCHEDULES & NOTES PLUMBING FLOOR PLAN AND PLUMBING ROOF PLAN

MECHANICAL FLOOR PLAN.

MECHANICAL DETAILS MECHANICAL CONTROLS

MECHANICAL ROOF PLAN AND

P5.1 PLUMBING DETAILS

. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES A#02-106610 INCR #2 DATE APR 2 0 2005

DREYFUSS& BLACKFORD

ARCHITECTS

3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA

TELEPHONE 916 453-1234 FACS: MILE 916 453-1236

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GRID LINE TYPICAL WORK POINT, CONTROL POINT OR DATUM POINT SECTION CUT TAG SEE SHEET INDICATED

> ELEVATION DESIGNATION TAG SEE SHEET INDICATED

> > KEYNOTE TAG

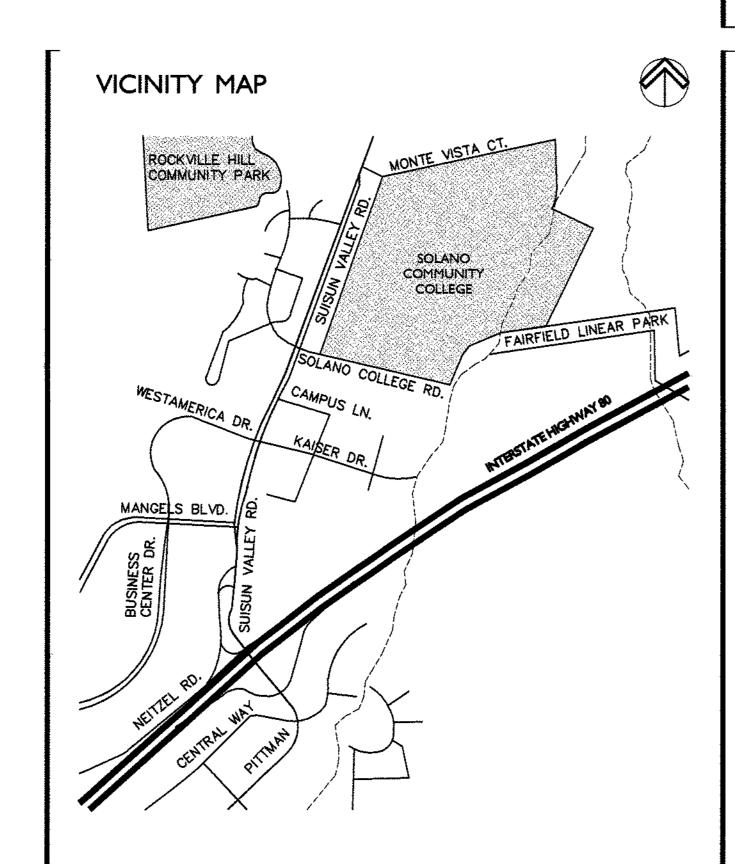
SEE NOTES ON SIDE OF SHEET SEE PROJECT MANUAL (BOUND SEPARATELY)

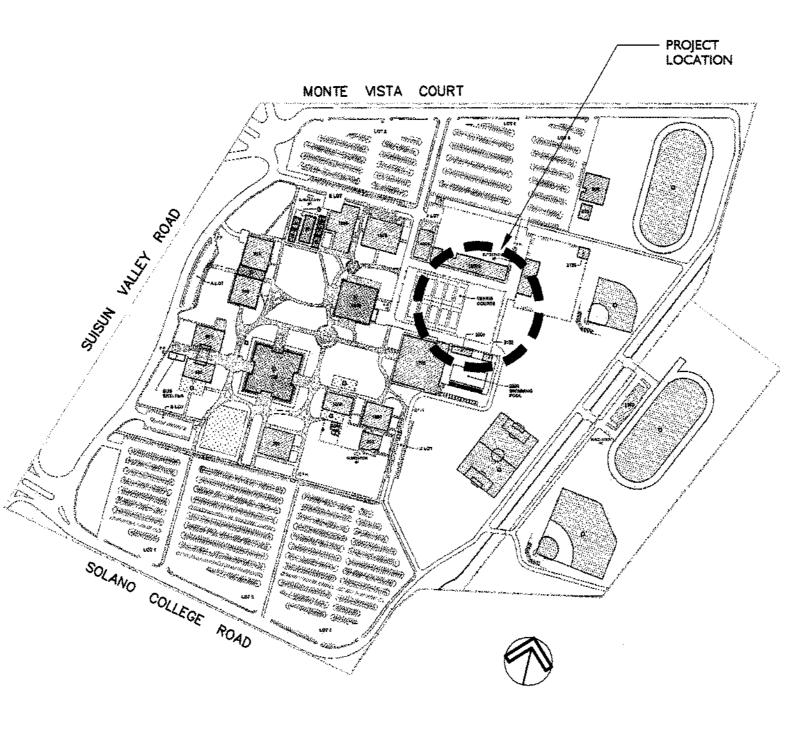
DOOR TAG (DOOR SCHEDULE) SEE PROJECT MANUAL (BOUND SEPARATELY)

SEE WNDOW SCHEDULE SHEET

EQUIPMENT DESIGANTION

X10 ROOM NAME





GENERAL NOTES:

- ON ARCHITECTURAL FLOOR PLANS, ALL DIMENSIONS ARE TO FACE OF FRAMING/CONCRETE CURB, CENTERLINE OF PLUMBING FIXTURE, OR FACE OF TOILET PARTITION UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS CLEAR ARE TO FACE OF FINISHED SURFACE.
- VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED OPERATING EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
- SCHEDULE ALL WORK WITH THE CONSTRUCTION MANAGER INCLUDING CONSTRUCTION ACCESS AND STORAGE.
- THE CONSTRUCTION SCHEDULE PROCEDURE SHALL BE APPROVED BY THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
- ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES.
- WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY AND PERFORMANCE. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND TO OCCUPANTS OF
- EXISTING BUILDINGS. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH

APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT

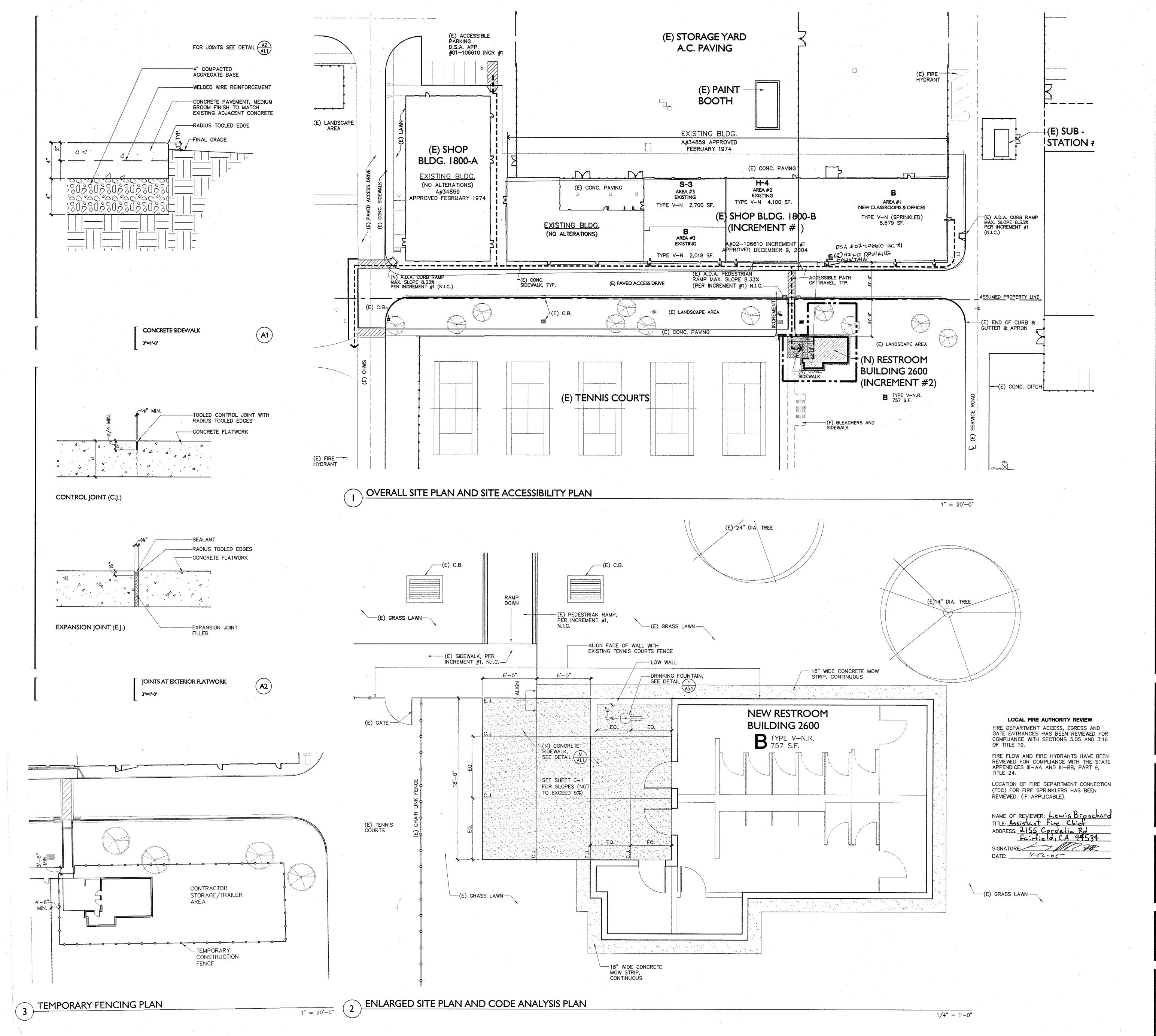
- PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. COORDINATE WITH OTHER CONTRACTS:
- IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT ARCHITECT OF RECORD, ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTORS WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTORS WORK AFTER EXECUTION OF THIS CONTRACTORS WORK.
- INSPECTOR SHALL BE EMPLOYED BY OWNER AND APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND DSA.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA



SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2** RESTROOM BUILDING 2600

COVER SHEET

A4745.05



DREYFUSS&BLACKFORD

ARCHITECTS

3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA 95816 TELEPHONE 916 453-1234 FACSIMILE 916 453-1236

DOCCUPANCY
CLASSIFICATION

PROPOSED BUILDING

(N) CONCRETE
PAVING AREA

LIMITS OF WORK

ACCESSIBLE PATH OF
TRAVEL (P.O.T.)

PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAX. CROSS SLOPE 2% TYP. IN THE DIRECTION OF TRAVEL, THE MAXIMUM SLOPE IS 5% U.O.N. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED. SEE CIVIL DRAWINGS FOR EXISTING GRADE.

ALLOWABLE BUILDING AREAS:

AREA TABULATION:

OCCUPANCY GROUP: B
TYPE OF CONSTRUCTION: TYPE V-N NONSPRINKLED
BASIC ALLOWABLE AREA: = 8,000 S.F.
ACTUAL BLDG. AREA = 757 S.F.
(757 < 8,000 OK)

GENERAL NOTES

SEE CIVIL, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

FLATWORK EXPANSION JOINTS (E.J.) AND CONTROL JOINTS (C.J.) SHALL BE LOCATED AS SHOWN ON PLAN U.O.N. SEE DETAILS

A1 A2
A1.1 A1.1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#02-106610
INCR #2

ACUTATION STAMP

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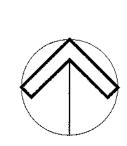


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SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

OVERALL SITE PLAN AND SITE ACCESSIBILITY PLAN, ENLARGED SITE PLAN AND SITE DETAILS

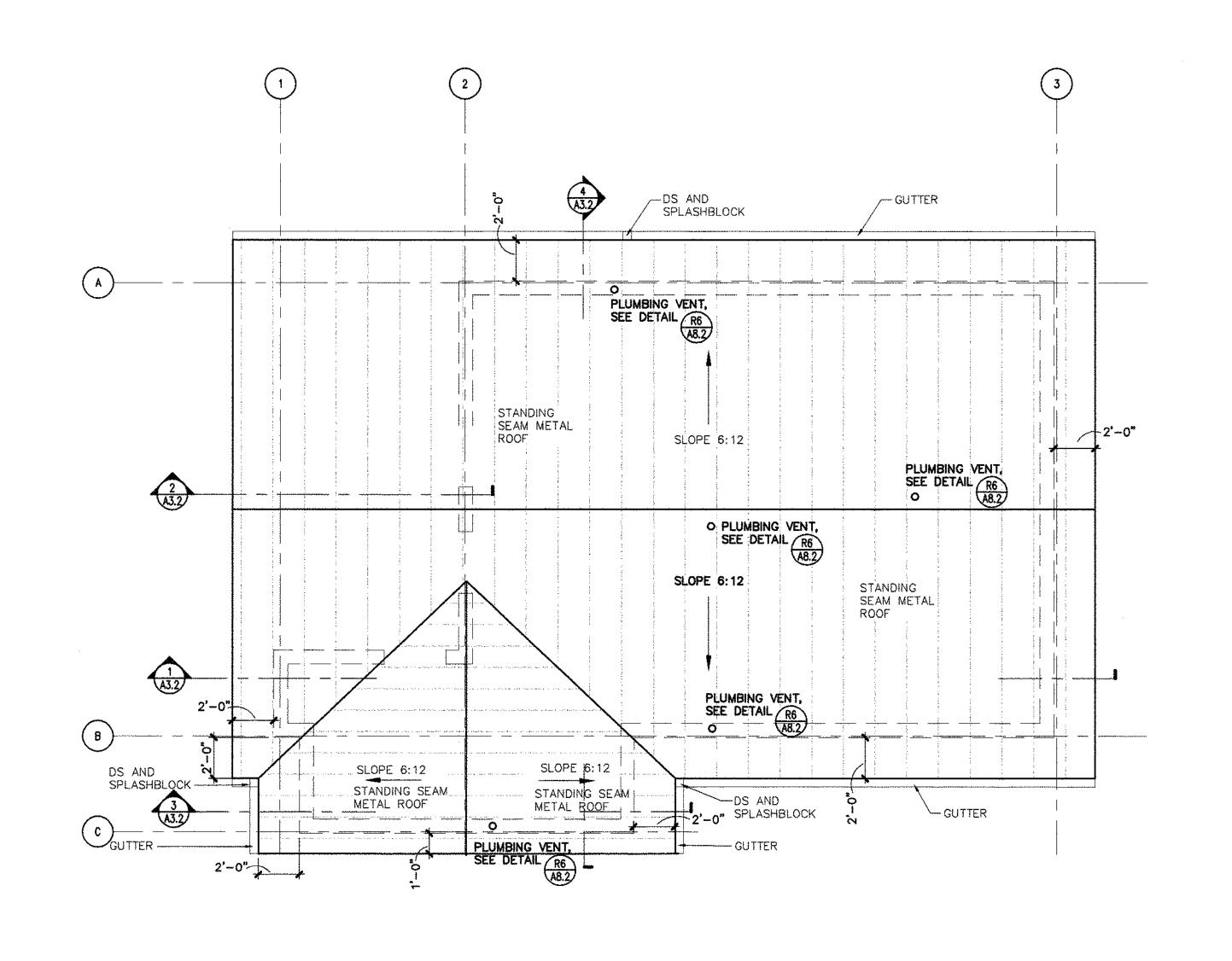


NORTH

1"=20'-0" 20 APRIL 2005

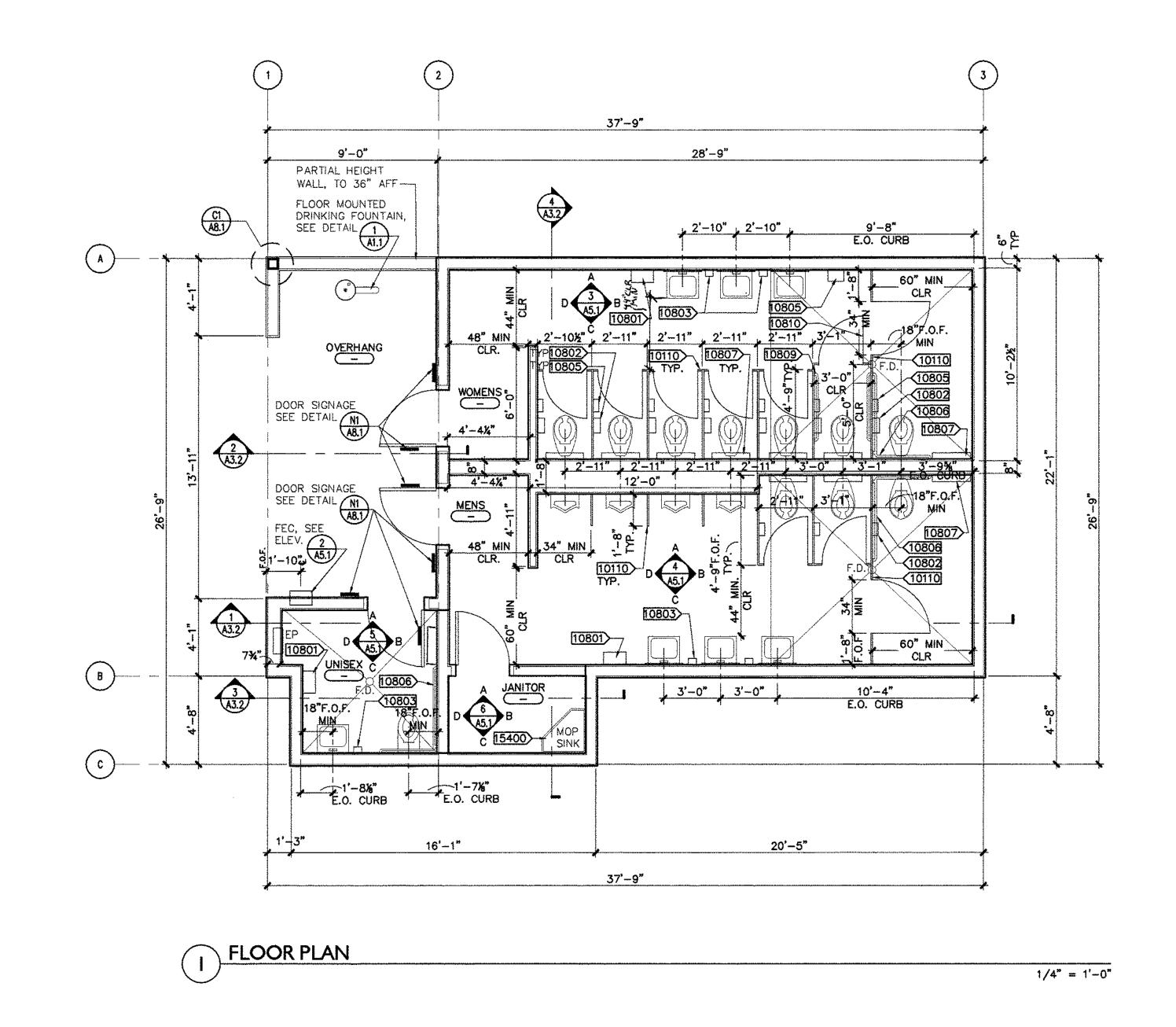
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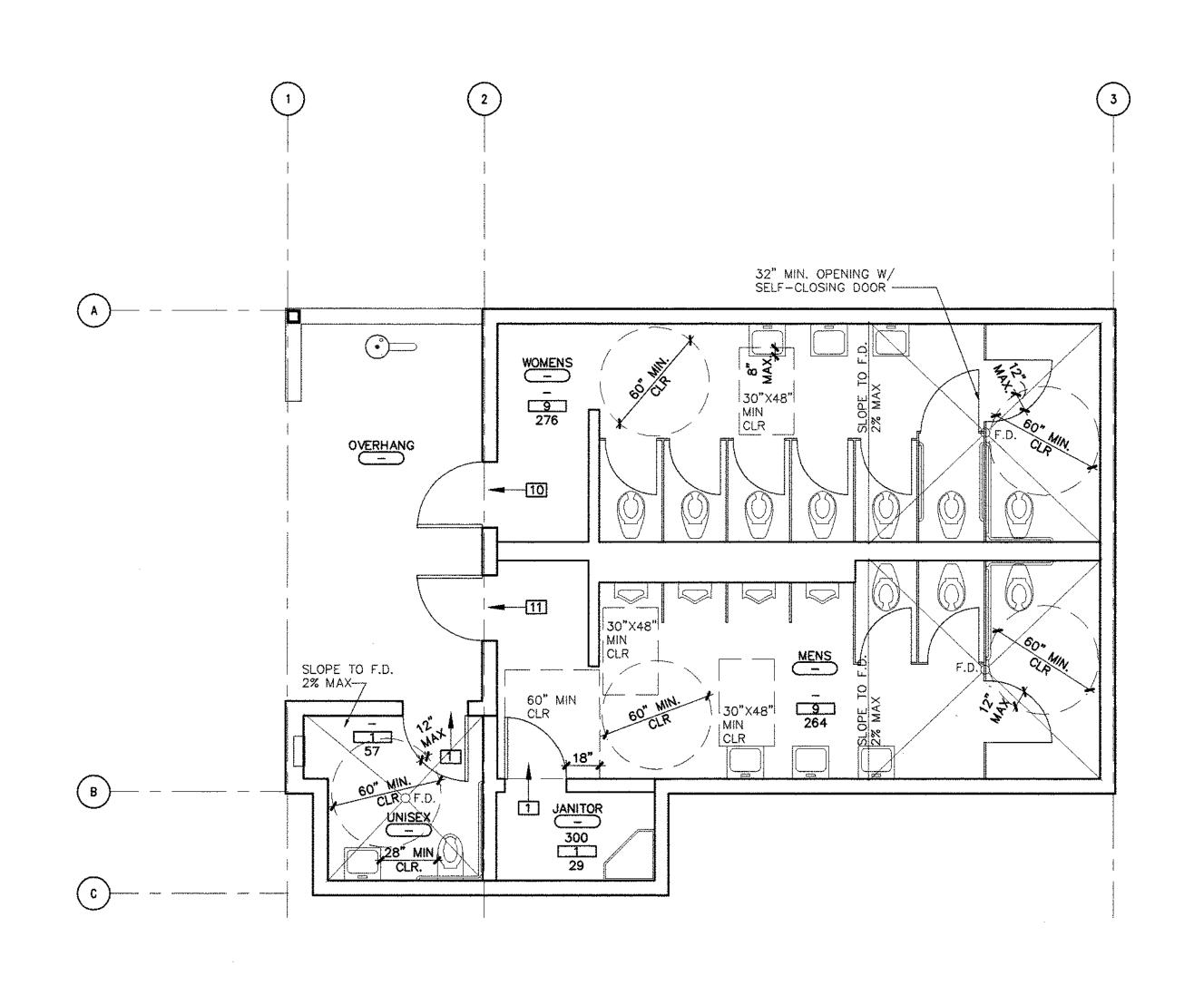
AI.I



1/4" = 1'-0"

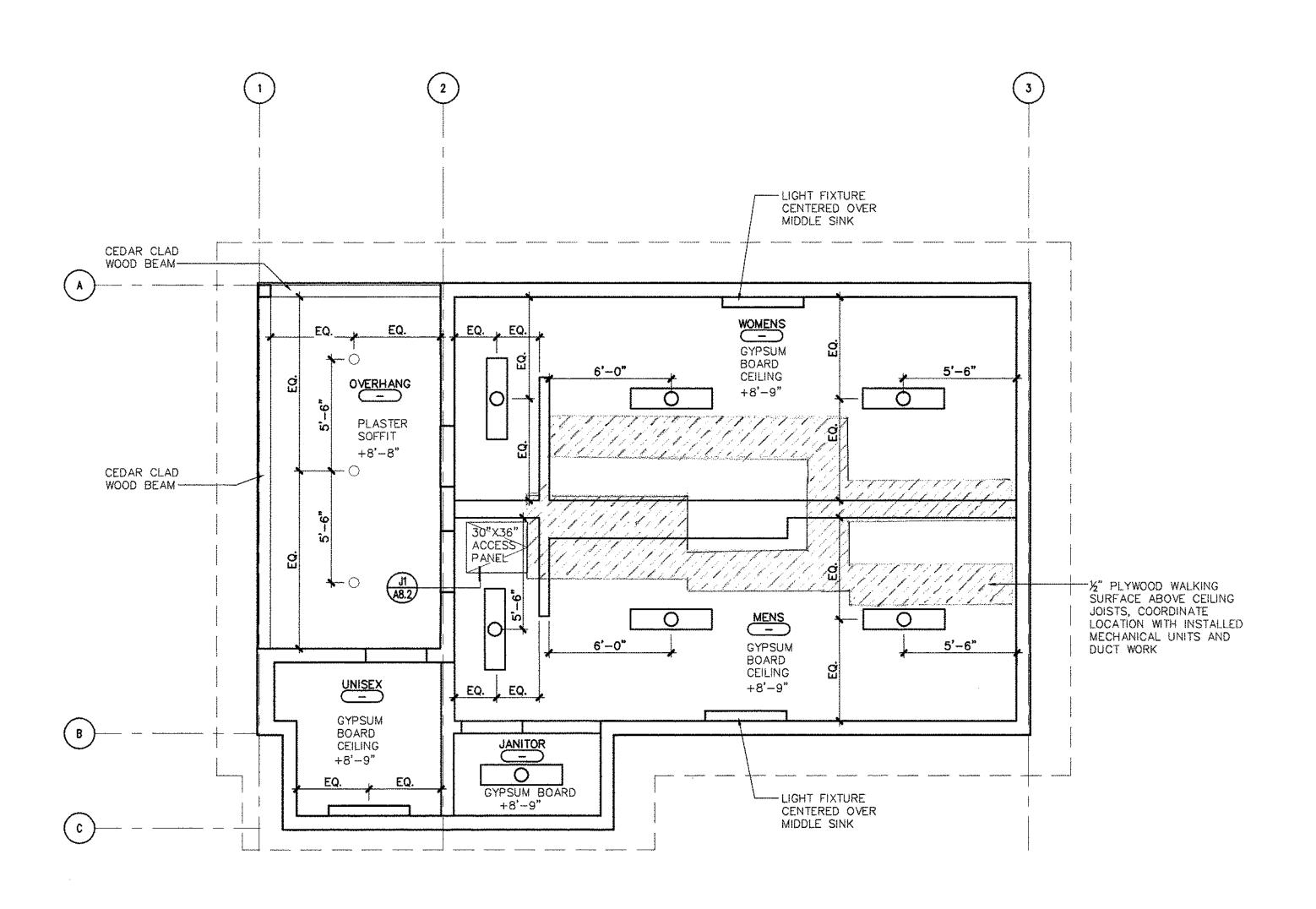
1/4" = 1'-0"





ROOF PLAN

CODE ANALYSIS PLAN



(2) REFLECTED CEILING PLAN 1/4" = 1'-0"



ARCHITECTS

3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA TELEPHONE 916 453-1234 FACSIMILE 916 453-1236

GENERAL NOTES:

1. ON ARCHITECTURAL FLOOR PLANS, ALL DIMENSIONS ARE TO FACE OF CONCRETE CURB, CENTERLINE OF PLUMBING FIXTURE, OR FACE OF TOILET PARTITION UNLESS
OTHERWISE NOTED. DIMENSIONS NOTED AS
CLEAR ARE TO FACE OF FINISHED SURFACE.

2. SLOPE TO FLOOR DRAINS (F.D.) NOT TO EXCEED 2%

3. REFER TO GENERAL NOTES ON COVER SHEET

KEY NOTES:

10110 FLOOR MOUNTED TOILET PARTITIONS 10801) SURFACE MOUNTED (4" PROTRUSION MAX.) PAPER TOWEL DISPENSER
OWNER SUPPLIED, CONTRACTOR INSTALLED

10802 MULTI-ROLL TOILET TISSUE DISPENSER (3" PROTRUSION MAX.) OWNER SUPPLIED, CONTRACTOR INSTALLED

10803 SURFACE MOUNTED LIQUID SOAP DISPENSER
OWNER SUPPLIED, CONTRACTOR INSTALLED

SURFACE MOUNTED NAPKIN/TAMPON VENDOR OWNER SUPPLIED, CONTRACTOR INSTALLED

10806 ONE PIECE 54"WX36"D, 1 1/2" O.D. GRAB BAR

10807 TOILET SEAT COVER DISPENSER
OWNER SUPPLIED, CONTRACTOR INSTALLED

10809 TWO 42"L, 1 1/2" O.D. GRAB BARS GRAB BAR 10810 OUTWARD SWINGING, SELF CLOSING DOOR 32" MIN. WIDTH CLEAR

15400 MOP SINK

LEGEND

----OCCUPANT LOAD FACTOR -OCCUPANT LOAD ---ROOM FLOOR AREA —EXIT LOAD AND DIRECTION OF FLOW

一½" PLYWOOD WALKING
SURFACE ABOVE CEILING
JOISTS, COORDINATE
LOCATION WITH INSTALLED
MECHANICAL UNITS

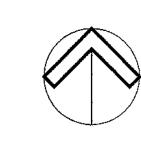


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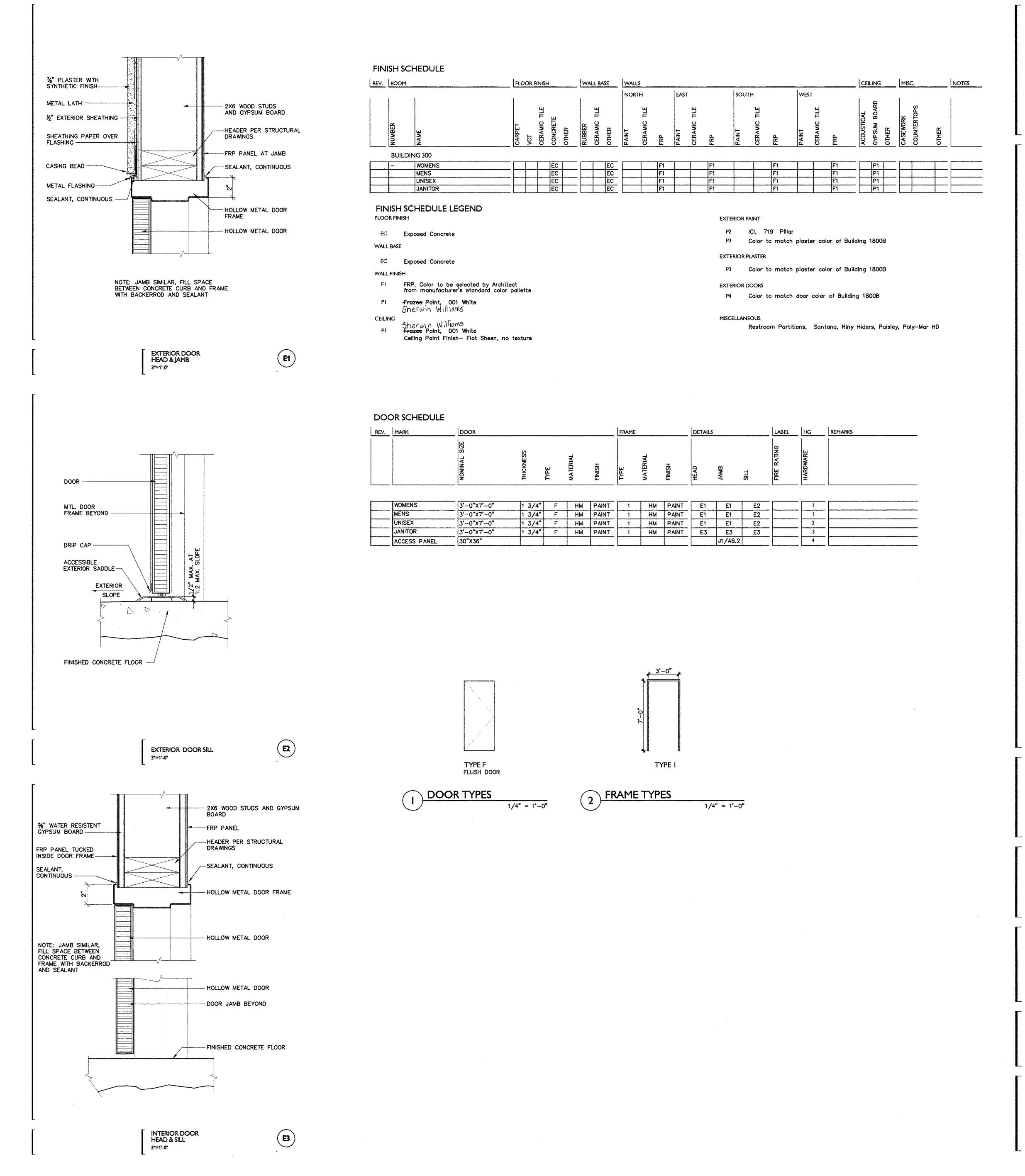


SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600**

FLOOR PLAN, REFLECTED CEILING PLAN, ROOF PLAN, CODE ANALYSIS PLAN



A4745.05 1/4" = 1'-0" 20 APRIL 2005





3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA

95816 Telephone 916 453-1234 Facsimile 916 453-1236

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SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

BUILDING 300 DOOR AND FINISH SCHEDULES DOOR DETAILS

A4745.05

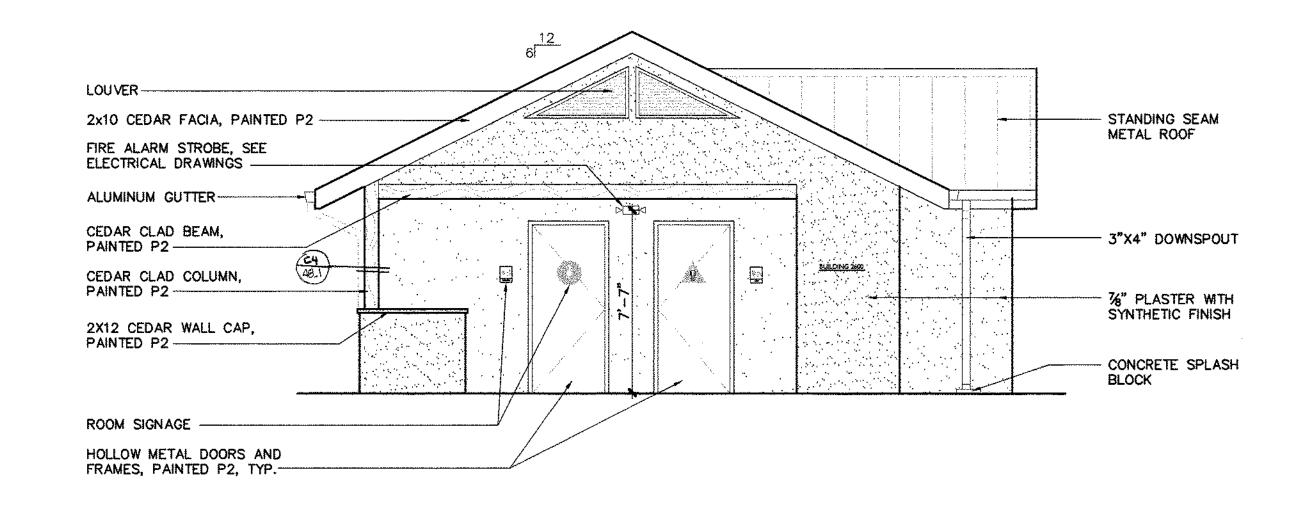
20 APRIL 2005

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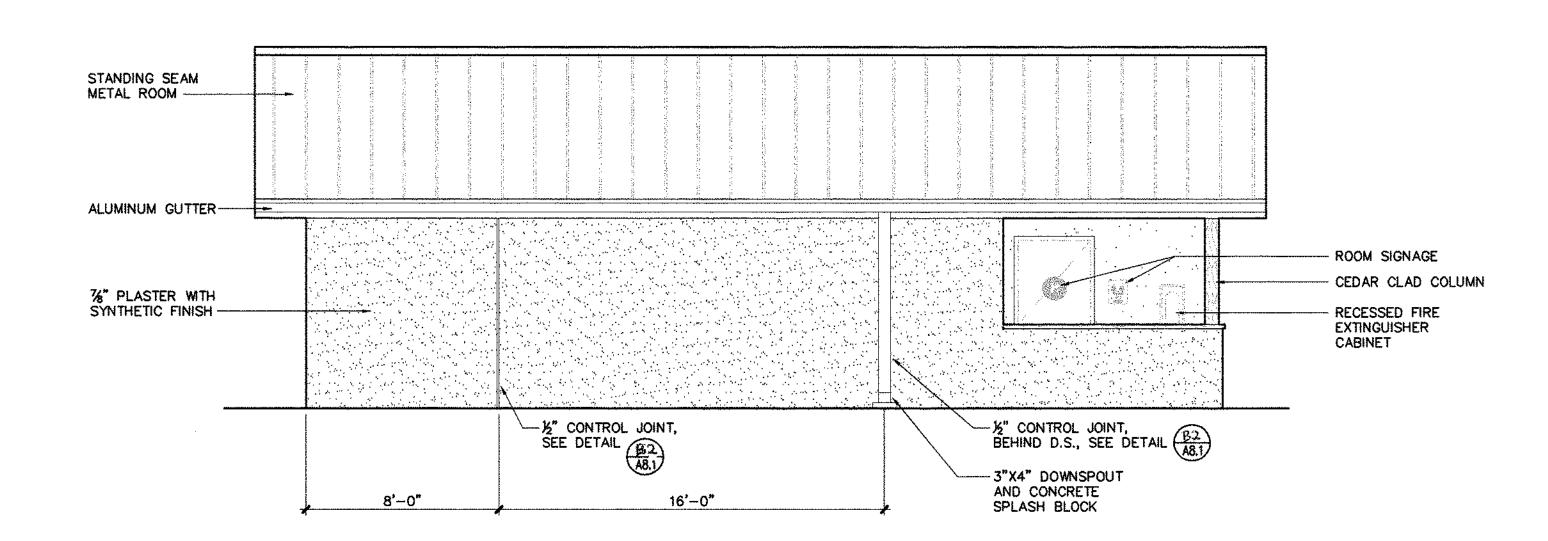


3540 FOISOM BOULEVARD SACRAMENTO, CALIFORNIA 95816

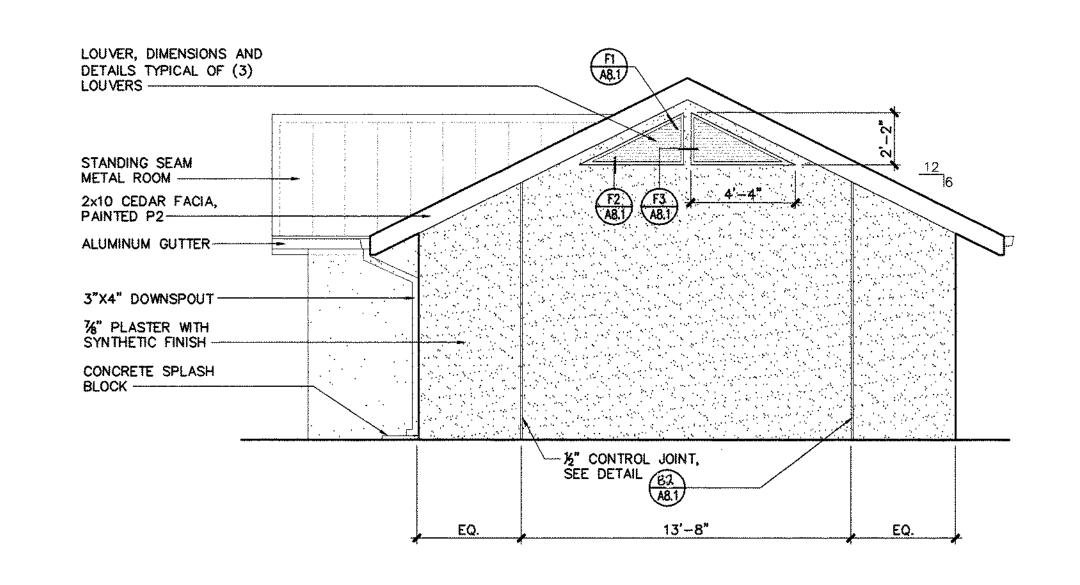
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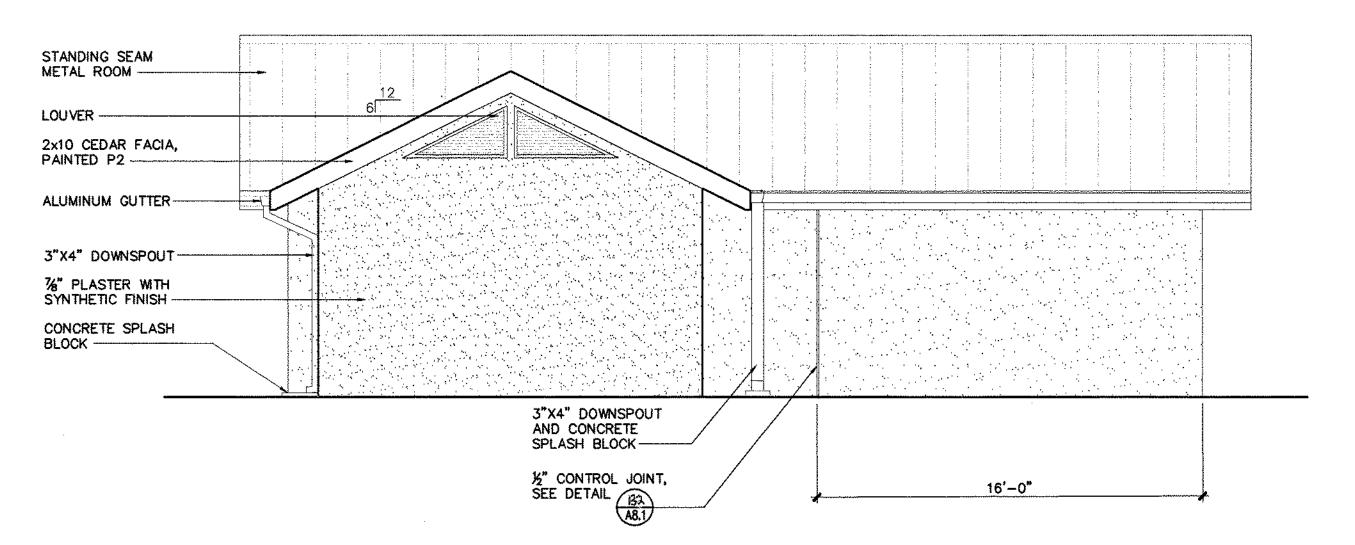


WEST

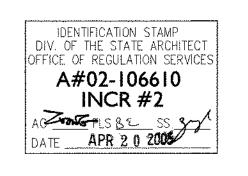


NORTH





SOUTH



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1/4" = 1'-0"

SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

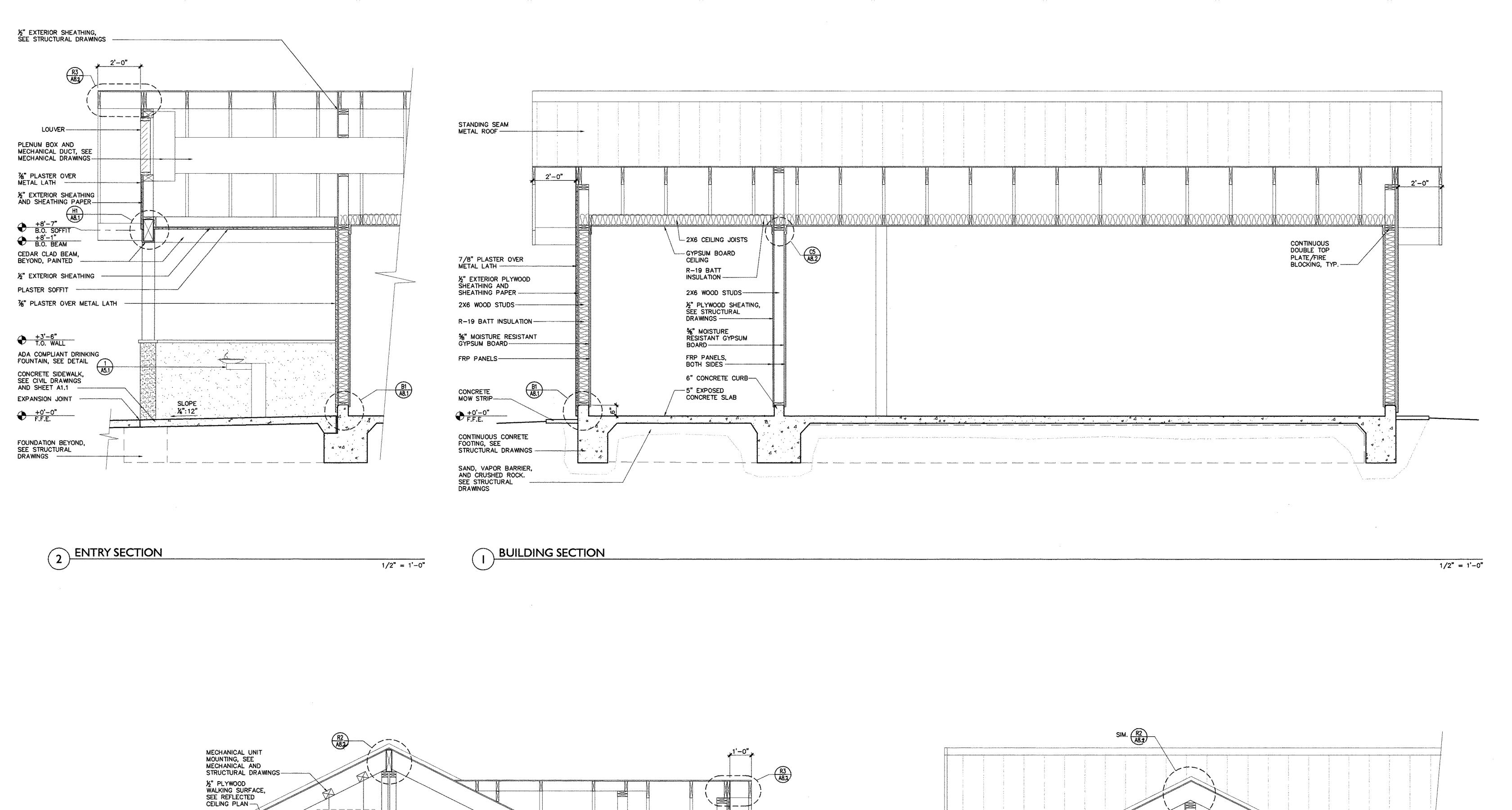
BUILDING ELEVATIONS

A4745.05 1/4" = 1'-0" 20 APRIL 200

Δ3 Ι

EXTERIOR ELEVATIONS

EAST



+8'-7" B.O. PLATE

1/2" = 1'-0"

STANDING SEAM METAL ROOF, ON 30# FELT, ON 1/2" PLYWOOD SHEATHING—

7/8" PLASTER OVER METAL LATH -----

½" EXTERIOR PLYWOOD SHEATHING AND SHEATHING PAPER

2X6 WOOD STUDS-

R-19 BATT INSULATION-

%" MOISTURE RESISTANT GYPSUM BOARD

CONTINUOUS CONRETE FOOTING, SEE STRUCTURAL DRAWNGS -

SAND, VAPOR BARRIER, AND CRUSHED ROCK. SEE STRUCTURAL

4 BUILDING SECTION

CONCRETE MOW STRIP- MECHANICAL UNIT

-2X6 CEILING JOISTS

----R-19 BATT INSULATION

FRP PANELS

2X4 WOOD STUDS -

%" MOISTURE RESISTANT GYPSUM BOARD ----

GYPSUM BOARD CEILING

34" PLYWOOD FIRE BLOCKING OR SECURED

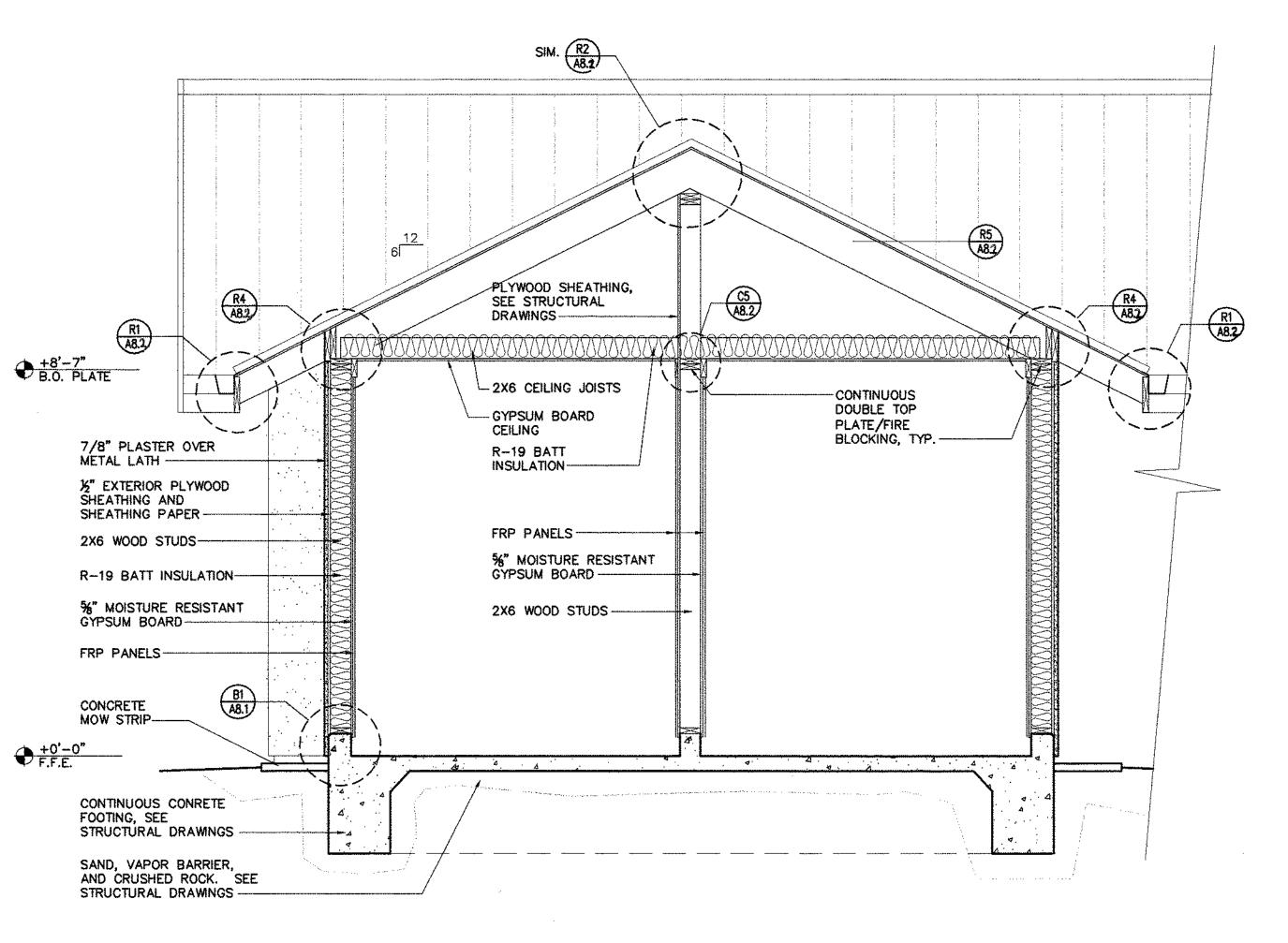
MINERAL GLASS FIBER BATTS BETWEEN STUDS

CONTINUOUS 34" PLYWOOD FIRE BLOCKING WITH

JOINTS LAPPED BY 3/4" PLYWOOD BACKING

- CONTINUOUS DOUBLE TOP

PLATE/FIRE BLOCKING, TYP. -



3 BUILDING SECTION

No. C 29764

No. C 29764

No. C 29764

No. C 29764

SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

A#02-106610 INCR #2 APR 2 0 2005

> THIS DRAWING IS NOT FINAL OR TO BE USED FOR CONSTRUCTION UNTIL IT IS SIGNED BY THE ARCHITECT/ENGINEER

Dreyfussa Blackford

ARCHITECTS

3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA

TELEPHONE 916 453-1234

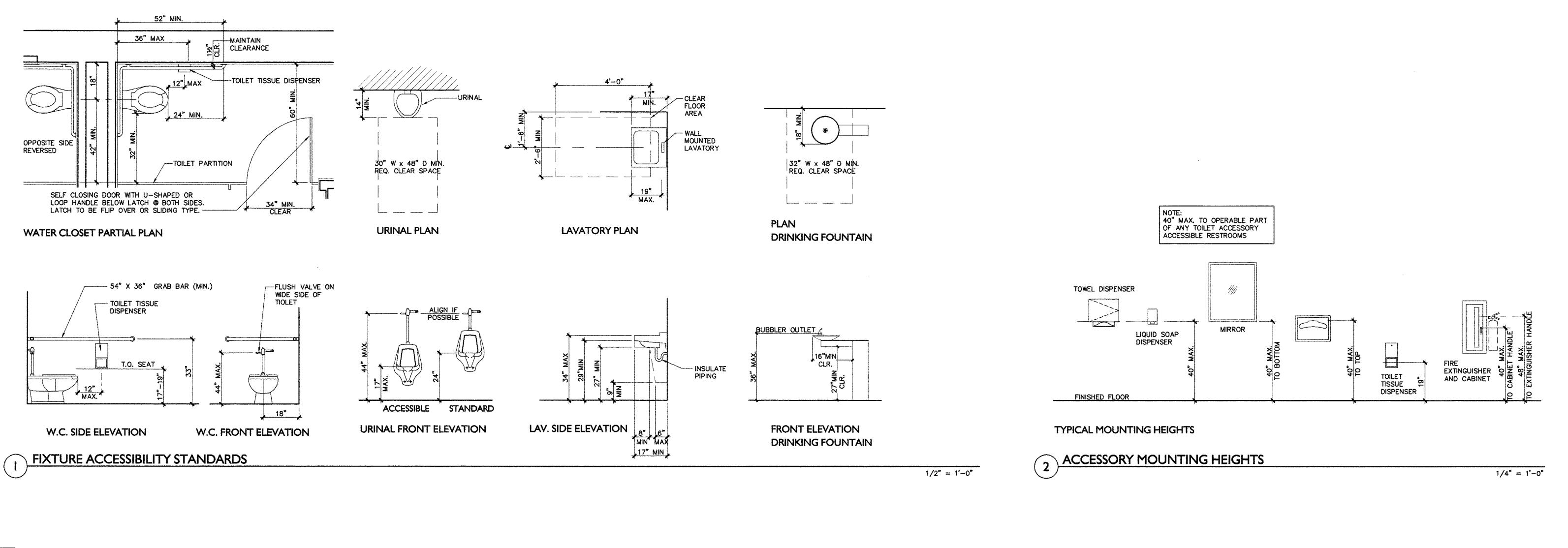
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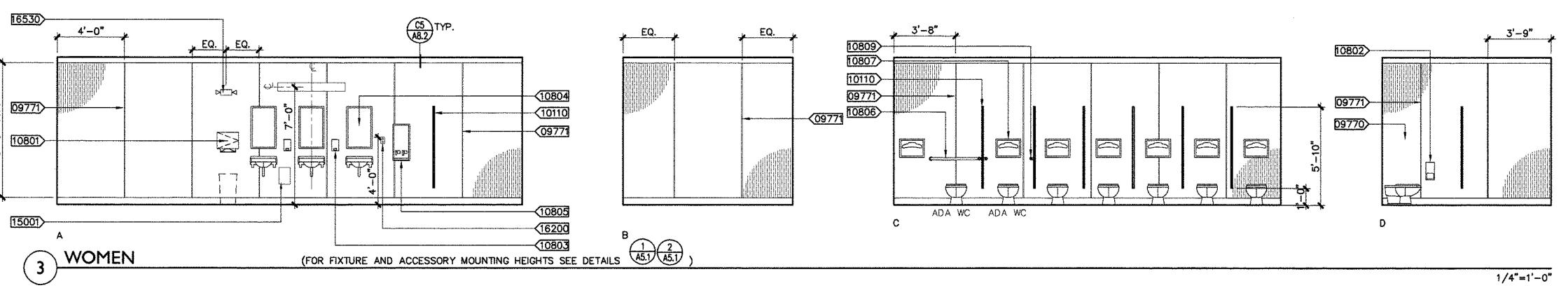
BUILDING SECTIONS

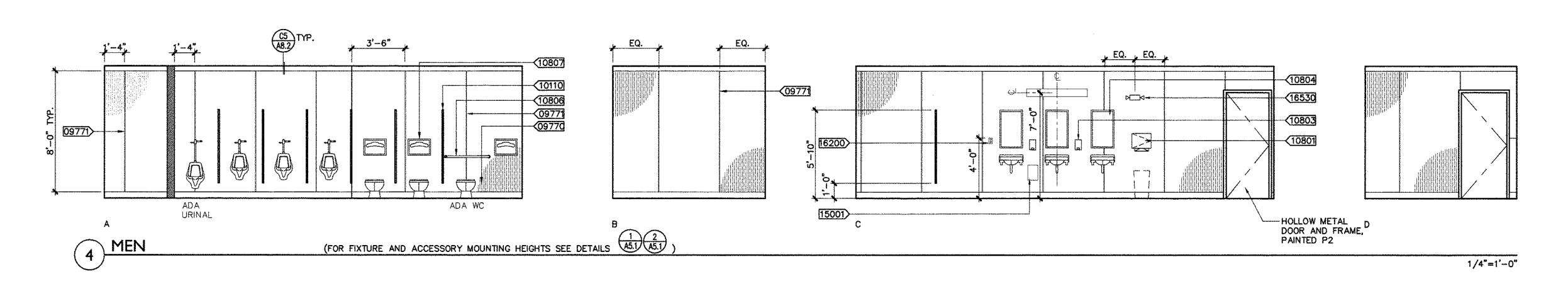
1/2" = 1'-0"

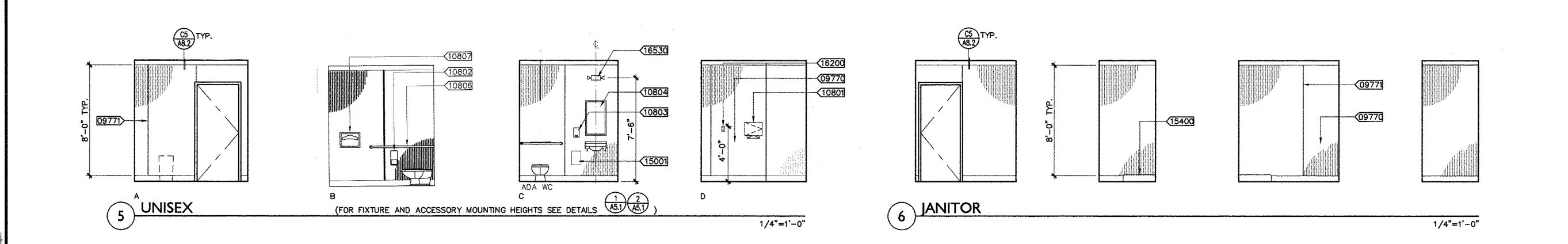
A4745.05 1/2" = 1'-0" 20 APRIL 2005

A3.2











3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA

Тегеьноме 946 453-1234 FACSIMILE 916 453-1236

KEY NOTES:

59770 FULL HEIGHT FRP., SEE A2.2 FOR FINISH 09771) ALUMINUM MOLDING BAR WITH SEALANT ON ALL JOINTS AND EDGES, TYP.

10110 FLOOR MOUNTED TOILET PARTITIONS

WALL MOUNTED "UNISEX" NI SIGN, SEE DETAIL A8.1

WALL MOUNTED "MEN" N1 A8.1

WALL MOUNTED "WOMEN" NI SIGN, SEE DETAIL A8.1

DOOR MOUNTED "MEN" NI SIGN, SEE DETAIL A8.1

DOOR MOUNTED "WOMEN" N1
SIGN, SEE DETAIL

A8.1

10801 SURFACE MOUNTED PAPER TOWEL DISPENSER
OWNER SUPPLIED, CONTRACTOR INSTALLED

10802> SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER

OWNER SUPPLIED, CONTRACTOR INSTALLED 10803 SURFACE MOUNTED LIQUID SOAP DISPENSER

OWNER SUPPLIED, CONTRACTOR INSTALLED

10804 18"X30"MIRROR

SURFACE MOUNTED NAPKIN/TAMPON VENDOR OWNER SUPPLIED, CONTRACTOR INSTALLED

10806 ONE PIECE 54"WX36"D, 1 1/2" O.D.

10807 TOILET SEAT COVER DISPENSER OWNER SUPPLIED, CONTRACTOR INSTALLED

10809 TWO 42"L, 1 1/2" O.D. GRAB BARS GRAB BAR

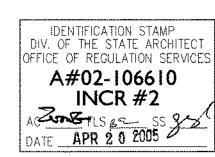
15001> RECESSED TANKLESS WATER HEATER COVER PLATE 15400 MOP SINK

16200 RECEPTACLE, SEE ELECTRICAL DRAWNGS

16530 FIRE ALARM STROBE, SEE ELECTRICAL DRAWINGS

GENERAL NOTES:

FOR FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS, SEE DETAILS 1 2 A5.1 A5.1



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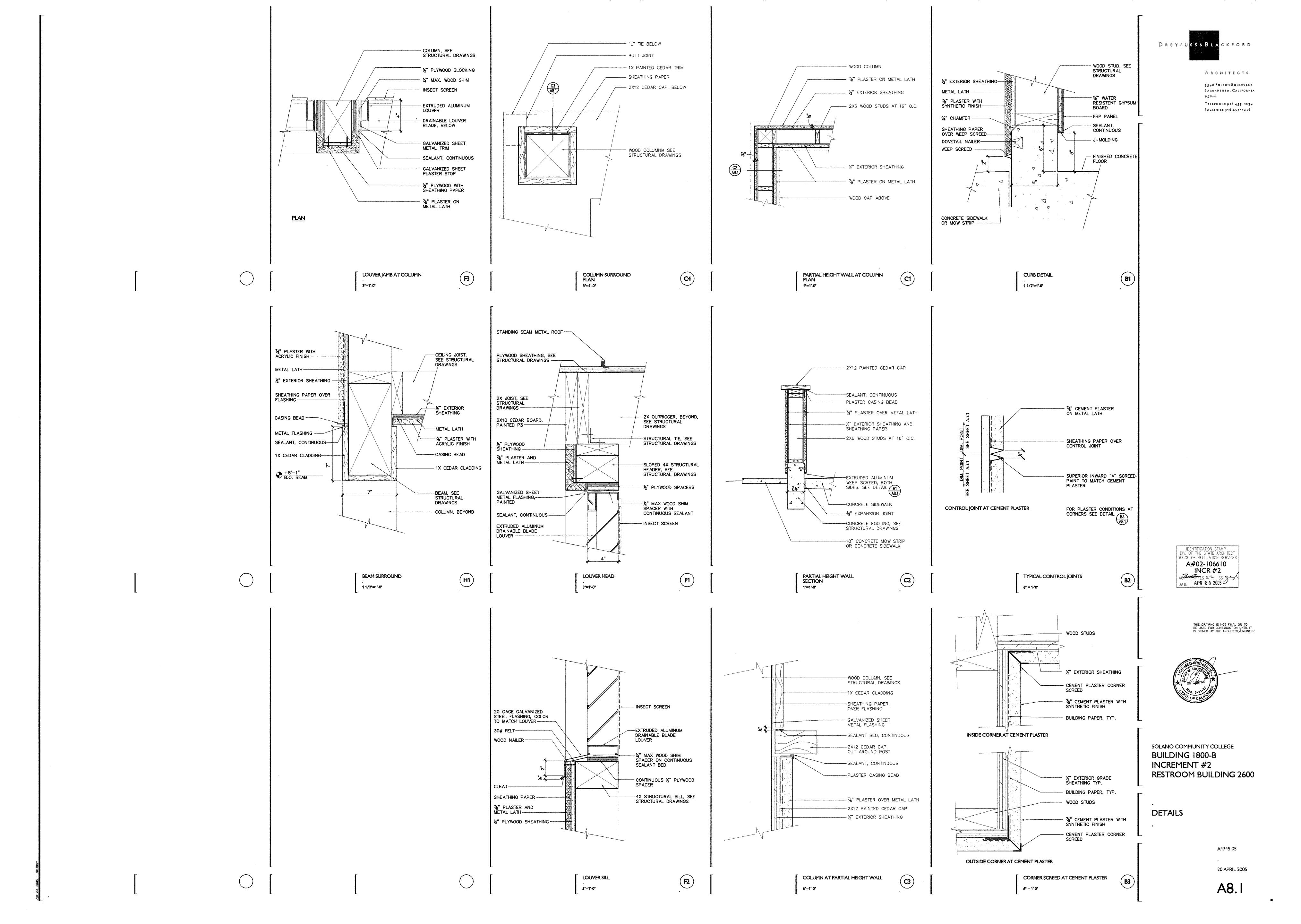
SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2** RESTROOM BUILDING 2600

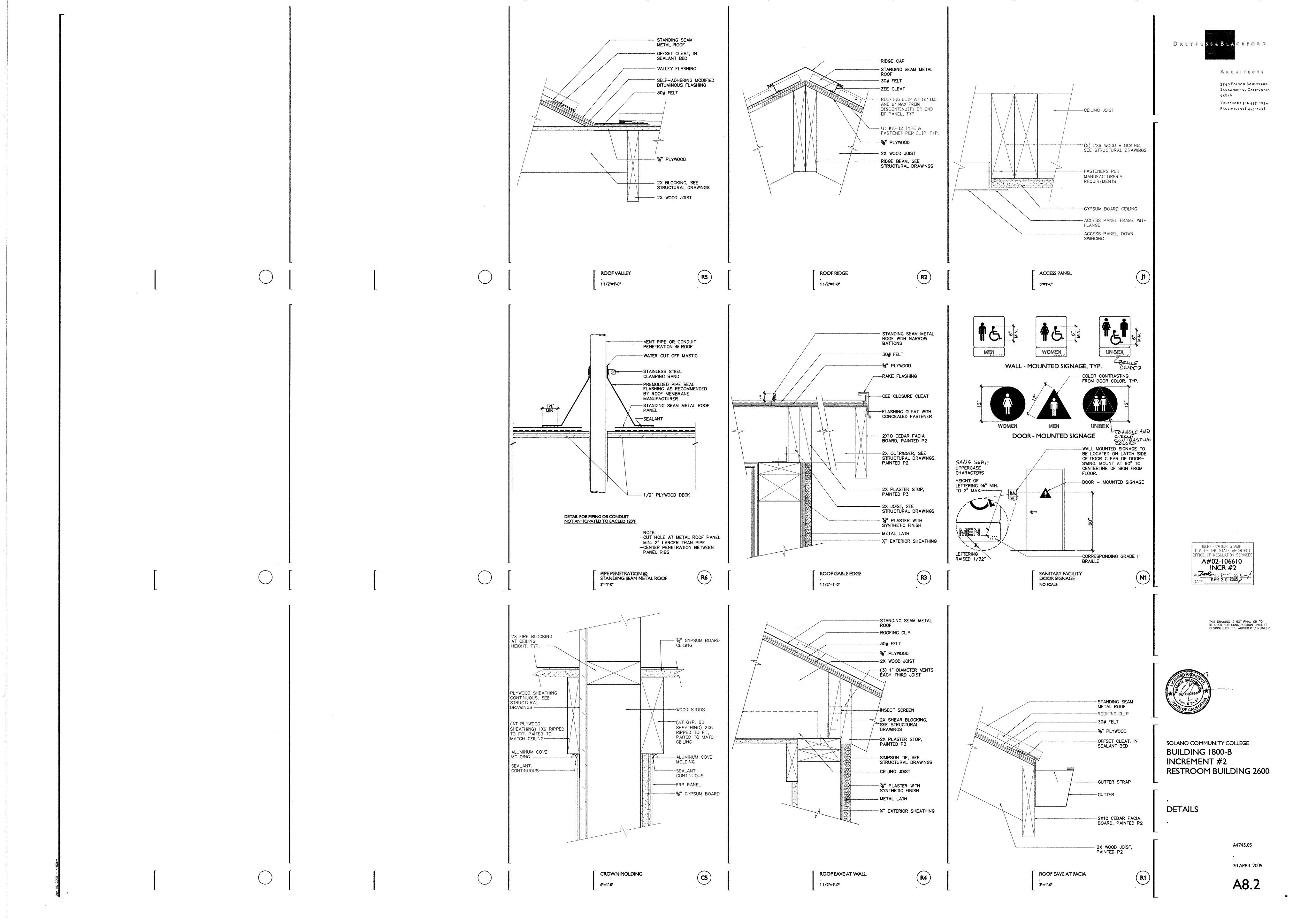
INTERIOR ELEVATIONS AND FIXTURE ACCESSIBILITY **STANDARDS**

A4745.05

20 APRIL 2005

A5.





that are detailed, marked or specified. If conflicts occur on drawinas and/or specifications, the most expensive materials or methods will prevail c) Should an error appear in the working details or specifications or in work done by others affecting this work, the Contractor shall notify the Architect at once and in writing. If the Contractor proceeds with the work so affected without having given such written notice and without receiving the necessary approval, decision or instructions in writing from the Owner, then he shall have no valid claim against the Owner, for the cost of so proceeding and shall make good any resulting damage or defect. No verba approval, decision, or instruction shall be valid or be the basis for any claim against the Owner, its officers, employees or agents. The foregoing includes typical errors in the specifications or notational errors in the working details where the interpretation is doubtful or where the error is sufficiently apparent as to place a reasonably prudent contractor on notice that, should he elect to proceed, he is doing so at his own risk.

Construction shall conform to all applicable codes and regulations. Shop Drawing Note:
a) Shop Drawings shall be submitted in the form of one sepia transparency and two blue line prints of each sheet.

b) The purpose of Shop Drawings submittals by the Contractor is to demonstrate to the Structural Engineer that he understands the design concept by indicating which material he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use. c) Prior to fabrication, Shop Drawings shall be submitted for review by the Structural Engineer. Shop Drawing submittals shall include, but are not necessarily limited to, structural steel, reinforcing steel, & glued laminated

d) Prior to submission the Contractor shall review all submittals for conformance with the Contract Documents and shall stamp submittals as being "Reviewed for Conformance". e) Shop Drawings submittals processed by the Structural Engineer are not Change Orders. f) Any detail on the Shop Drawing that deviates from the Contract Documents shall clearly be marked with the note "This a change"

a) Shop drawinas or calculations submitted for review that require resubmittal for re-review shall be billed hourly for such time to the General Contractor. Re-review will not proceed without written approval from the General Contractor for additional engineering review services. 4. Safety Note: a) It is the Contractors responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California latest edition, and all OSHA requirements.

b) The Owner and the Structural Engineer do not accept any responsibility for the Contractor's failure to comply with these requirements.
c) The Contractor shall be responsible for adequate design and construction of all forms and shoring required.
5. The contractor shall notify the Architect and Structural Engineer where a conflict or discrepancy occurs between the Structural drawings and any other portion of the Contract Documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule. In case of a conflict between Structural drawings and specifications the more restrictive condition shall take precedence unless written approval has been given for the least restrictive. Contractor shall verify all dimensions with Architectural prior to commencing any work.
6. Where no specific detail is shown, the construction shall be identical or similar

to that indicated for like cases of construction on this project. Should there be any question, contact the Architect and Structural Engineer prior to 7. When construction attaches to an existing building, a complete set of drawings of the existing building shall be kept on the job site. Contractor to obtain these drawings from the Owner. 8. Contractor shall provide an allowance equal to 2% of the bid for structural steel, misc. iron and reinforcing steel to be used at the discretion of the Structural

Engineer. Unused amount to revert to the Owner upon completion of the lob

9. Any substitutions for structural members, hardware or details shall be reviewed by the Architect and Structural Engineer. Such review will be billed on a time and materials basis to the General Contractor with no guarantee that the substitution will be allowed. 10. Do not scale drawings. Contact the Architect or Structural Engineer for any dimensions not shown. 11. These drawings are not complete until reviewed and approved by DSA and

signed by the Architect and the Structural Engineer.

ABBREVIATIONS

| 100TN03-1 | • | |
|--|-----------------------------|-------------------------------|
| AB | -Anchor Bolt | MIMalleable Iron |
| abv | | (n)New |
| agg | | NICNot in Contract |
| b/w | Below | NSNear Side |
| bof | -Bottom of Footing | ntsNot to Scale |
| btwn | -Retween | NWNormal Weight |
| | -Center to Center | OHOpposite Hand |
| 6/ | -Control Joint | OSBOriented Strand Board |
| c/r | | OSHPDOffice of Statewide |
| | -Concrete Masonry Unit | Health Planning & |
| CN/ | -Construction Joint | Development |
| cont | | pcPiece |
| contr | | ppPartial Joint Penetration |
| | -Complete Joint Penetration | PTPressure Treated |
| csk | -Countersink | rwdRedwood |
| DF | -Douglas Fir | SCSlip Critical |
| DL | -Dead Load | shtgSheathing |
| do | | simSimilar |
| | -Division of the State | SMSSheet Metal Screw |
| <i>D</i> | Architect | SPStructural Panel |
| dwg | | stfnrStiffener |
| (e) | | stgrdStaggered |
| ĔĚ | -Fach Face | t&bTop & Bottom |
| F./ | -Expansion Joint | t&gTongue & Groove |
| E/ | -Flevation | thrdThreaded |
| EN | Edge Nailing | tnToe Nail |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | -Edge of Slab | toTop of |
| eq | | tocTop of Concrete (slab uno) |
| EW | | tofTop of Footing or |
| | -Each Way Each Face | Top of Framing |
| FB | -Face of Block(or Brick) or | tosTop of Steel |
| , , | Flat Bar | towTop of Wall |
| FC | -Face of Concrete or | TSTube Steel |
| | Framing Clip(Simpson A35) | unoUnless Noted Otherwise |
| FF | -Finish Floor | w/with |
| | -Face of Stud or Far Side | w/cwater/cement |
| aa | -Gauge or gage | w/owithout |
| alb | -Glued Laminated Beam | WPWork Point |
| HDG | -Hot Dip Galvanized | WSWood Screw |
| hdr | | WWFWelded Wire Fabric |
| | -High Strength Bolt | ⊈Centerline |
| HSS | -Hollow Structural Section | ₽Plate |
| ht | | ₩Wide Flange |
| IOR | -Inspector of Record | #Number or Pounds |
| ih | -Joist Hanger | sqSquare |
| // // | -Live Load | ΦRound |
| 7.7 H | -Long Leg Horizontal | TOTALCont Wood in Section |
| ZZV | -Long Leg Vertical | Wood Blocking in Section |
| ZS | -Laa Screw | SEnd of Wood Piece |
| LW | -Light Weight | (a)"member" above |
| MB | -Machine Bolt | (b)"member" below |
| | A A | • • |

1. Codes and Standards 2001 California Building Code (CBC) w/ State of Calif. Amendments 3. Lateral loads

2. Vertical loads Roof Live Load = 20 psf Floor Live Load = __ psf Floor Partition Load = __ psf Live loads are reduced where permitted by code. 4. Soils Values

Allowable soils pressure 1) DL + LL + Seismic 1000 psf

Minimum depth = $\frac{12}{12}$ Minimum width = $\frac{12}{12}$

TESTS AND INSPECTIONS

mfr-----Manufacturer

<u>DESIGN_CRITERIA</u>

Tests and Inspections shall be provided by a qualified testing agency as required below and shall conform to the requirements of the 2001 CBC.

Testing and inspection records shall be kept for all structural concrete in accordance with section 1929A.7 & 1929B.7 of the 2001 California Building Code.

Fill Compaction Reinforcing Steel (Mill Certs.) Concrete : Structural Steel ☐ Grout and Mortar
☐ Epoxy & Expansion Anchors
☐ Shotcrete
☐ Shear Studs (IOR)

Inspections: ■ Footing Excavation
□ Pile/Pier Installation Reinforcement Placement (IOR) ■ Concrete Placement (IOR) ■ Shop Welding
□ Field Welding
□ High Strength Bolting Masonry Placement & Groutina Shear Stud Installation Epoxy & Expansion Anchors Anchor Bolts Embedded in Conc or Masonry Shotcrete ■ Glu-Lam Fabrication

Zone \underline{A} ; $Z = \underline{A}$ $R = \underline{5.5}$; $I = \underline{1.0}$; $I_p = \underline{-}$ Soil Profile Type: \underline{Sd} Near Source Factors:

(for Z=0.4 only) No = 1.3; Nv = 1.6

 $\frac{80}{l_w} = \frac{mph}{1.0} - Exposure C$

FOUNDATIONS

All foundation work shall be done in accordance with the requirements of the California Building Code chapter 18A.

Foundations shall bear on <u>compacted native soil 18" below arade</u> See notes and details on sheet <u>S2.1</u>
Bottoms of all foundations shall be level. Changes in bottom of foundation elevation shall be made according to "Typical Footing Step" detail on the Typical Detail Sheet. Building pad construction shall conform to the requirements of the CBC. The extent and depth of overexcavation and placement of

engineered fill shall at a minimum be as shown on the plans. Final depth and extent of excavation and fill shall be determined at time of construction by a representative of the Soils Engineer. Foundation depths indicated on plans are for estimating purposes only. Foundation concrete may be placed directly into neat excavations provided the foundation trench walls are stable as determined by the Architect/Structural Engineer and subject to the approval of the enforcement agency. In such case the minimum formwork shown on the drawinas is mandatory to insure clean excavations immediately prior to and during the placing of concrete. Starter walls are required for all masonry or

6. Notify the Structural Engineer 48 hours before casting foundations.

Structural concrete shall attain 28 day compressive strength as required in note #27. Maximum slump shall not exceed 4 inches. Concrete mix designs shall be prepared by registered Civil Engineer, reviewed by the Owner's testing laboratory and submitted to the Structural Engineer for review.

Cement shall conform to ASTM C-150 type I or II. Concrete aggregates shall conform to ASTM C-33 for normal weight concrete and ASTM C-330 for light weight concrete.

Non-shrink grout or drypack shall consist of a premixed nonmetallic formula.

Reinforcing steel shall conform to ASTM A-615 Grade 60 for #4 and larger,

and ASTM A-615 Grade 40 for #3 and smaller, except reinforcing steel to be

welded shall conform to ASTM A-706. All preheating and welding of reinforcing bars shall be done in accordance with

AWS D1.4 latest edition and shall be continuously inspected by a qualified laboratory. Contractor shall furnish to the laboratory, rebar mill certificates. Reinforcing steel shall be fabricated according to "Manual of Standard Practice for Reinforced Concrete Construction Wire fabric shall conform to ASTM A-185.

Beams (top bars)----1-1/2"
Beams (all other main reinforcing)-----2" Walls (exterior face)----1-1/2" Walls (interior face)-----3/4" Slabs (on forms) ------3/4" Splices in continuous reinforcement shall be lapped uno. In no case shall

splices be less than 48 bar diameters. Splices in adjacent bars shall be not less than 5'-0" apart. Splice continuous bars in soil-bearing grade beams as follows: top bars at centerline of support; bottom bars at mid-span. Splice continuous bars in spandrel beams, wall beams, etc. as follows: to bars at mid-span; bottom bars at centerline of support. All bars size #1 and larger shall be continuous for the full length shown. Splices in WWF shall be 1-1/2 meshes wide. Provide hooks at ends of all reinforcing at ends, corners and intersections u.n.o. All hooks shall be standard hooks unless otherwise shown or noted.

Construction joints shall be made rough and all laitance removed from the surface. Concrete may be roughened by chipping the entire surface, sand blasting, or raking the surface to provide 1/4" deep deformations. Remove all debris from forms before casting any concrete. Reinforcing, dowels, bolts, anchors, sleeves, etc., to be embedded in concrete shall be securely positioned before placing concrete. Anchor bolts cast in concrete or masonry shall be headed bolts with cut threads conforming to ASTM A307, ASTM A36, or ASTM A572 as indicated on drawings. Walls shall be cast in horizontal layers of 2'-0" maximum depth. Concrete in walls, piers or column's shall set at least 2 hour's before placing concrete in beams, spandrels, or slabs supported thereon. Horizontal wall bars in double layer walls shall be staggered.

Dowel all vertical reinforcing in walls and columns from foundation with same Consolidate concrete placed in forms by mechanical vibratina equipment supplemented by hand-spading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the recommended practices of ACI 309 to suit the type of concrete and project conditions. Concrete shall not be dropped through reinforcing steel (as in walls) so as to cause segregation of aggregates. In such cases hoppers and chutes or trunks of variable lengths shall be used so that the free unconfined fall of concrete Drill through steel columns, beams and plates to pass continuous reinforcina. No wood spreaders allowed. No wood stakes allowed in areas to be concreted. Additional reinforcing in precast or tilt-up panels required for lifting stresses

Provide 2 - #5 x 4'-0" diagonal reinforcing at mid-depth of slab at all reentrant corners typical. All saw cutting shall be done after initial set has occurred to avoid tearing of damage by the saw blade, but before initial shrinkage has occurred.

CONCRETE STRENGTHS: Max Agareagte Ma. f'c at 28 days Size Weight Ratio 1 1/2" 145 .*55* footing

STRUCTURAL STEEL

Fabrication, erection and materials shall conform with the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings and the Uniform Building Code, latest editions. 2. Structural Steel wide flange shapes shall conform with ASTM A-992. All other Structural Steel rolled shapes (channels, angles, etc) and plates shall conform with ASTM A-36, uno.

145

Steel Pipe shall conform to ASTM A-53, Types E or 5, Grade B. Structural Tubing shall conform to ASTM A-500, Grade B. All structural steel shall receive minimum of one shop coat of red primer paint Do not paint areas to be field welded, to receive slip-critical high strength bolts, or to be embedded in concrete. Provide additional painting as noted in the specifications. 6. All structural steel shall be erected plumb and true to line. Temporary bracing shall be installed and shall be left in place until other means are provided to adequately brace the structure. Contractor responsible for reviewing all base plate and support conditions during erection and bracing as required. See AISC and OSHA requirements.

Place non-shrink grout under all base plates before adding vertical load. Structural steel below grade shall have 3 inches minimum of concrete cover. Bolted connections shall consist of unfinished bolts conforming to ASTM A-307 unless noted otherwise. Where high strength bolts are indicated, bolts conforming to ASTM A-325 or ASTM A-490 as needed shall be provided. Anchor bolts cast in concrete or masonry shall be headed bolts with cut threads conforming to ASTM A307, ASTM A36, or ASTM A572 gr. 50 as ndicated on drawings.

10. "Slip-critical" bolted connections: a) "Slip-critical" connections (A325SC design values with special inspection) are required at all braced frame connections, at all connections along chord lines and drag lines (as noted on plans), and at all bolts in oversized or slotted holes. b) The special inspector must be present during installation and tightening operation of "slip-critical" connections.

Provide 1/2" diameter stitch bolts and ring fills, spaced at not more than 2'-0" on center for all double angle members. At wood to steel parallel contact, bolt with 1/2" diameter bolts at maximum 13. Holes for unfinished bolts shall be of the same nominal diameter of the bolt plus 1/16". Use standard AISC gage and pitch for bolts except as noted

Holes for anchor bolts embedded in concrete shall be of the same nominal bolt diameter plus 3/16" unless noted otherwise. Welding shall be done by the electric arc process in accordance with American Welding Society Standards, using only certified welders. All groove welds shall have complete penetration unless noted otherwise. All exposed welds shall be ground smooth. All electrodes for welding shall comply with AWS code, E70

Weld lengths called for on plans are the net effective lengths required. 17. Minimum fillet welds: 3/16" @ t < 1/2" 1/4" @ t < 3/4"

shrinkage strains.

5/16" @ t > 3/4" Welding Procedure Specifications (WPS) for shop and field pregualified weld joints and weld joints qualified by test shall be prepared for review prior to fabrication. All welding procedure items such as base metals, welding processes, filler metals and joint details that meet the requirements of AWS D1.1 Section 5.1 shall be considered as prequalified. Any change or substitution that is beyond the range or tolerance or requirements for prequalification shall be qualified by test per AWS D1.1 Section 5 part B. Qualification testing is required when the depth of a partial penetration or complete penetration weld is 2" or greater. 19. For nondestructive testing of welded connections excluding primary members of

moment resisting frames: a) Welded connections shall be tested by nondestructive methods for compliance with AISC J2. and iob specifications. Ultrasonic Testina shall be in accordance with AWS D1.1 ASTM E164 and ASME Section V. Radiography shall be in accordance twith AWS D1.1. ASTM E94 and E99. and ASME Section V. This testing shall be part of the special inspection requirements of UBC Section 1701 performed by an approved independent testing laboratory as follows: 1. Base metal thicker than 1 inch when subject to through thickness weld

All complete penetration groove or butt welds. All partial penetration groove welds when used in column splices. b) Any material discontinuities shall be accepted or rejected on the basis of defect rating in accordance with the (larger reflector) criteria of AISC J2.

GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

1. All structural wood shall conform with the following specifications: Douglas Fir - Coast Region - WCLIB grading rules #17. 2x studs, rafters, ledgers, joists, plates, nailers - #1. 3x and larger studs, posts, ledgers, plates, nailers – #1. 4x beams - #1. 6x and larger" beams - #1.

2x decking - Select Dex.
non structural blocking, stripping, furring - Construction.
For timber 3x and larger, no more than 20% of the cross section shall contain heart center. Redwood — California Redwood, RIS. Glued Laminated Beams - Standard Spec. for Structural Glued Laminated Timber AITC 117. Submit Shop Drawings prior to fabrication of glued

lominated members. Engineered Lumber Microllam laminated veneer lumber (LVL) - National Evaluation Report Parallam parallel strand lumber (PSL) - National Evaluation Report No. NER-292

Sheathing - US Product Standard PS 1-95 for soft plywood, Struct 1 CDX @ walls, floors, & roofs uno Pressure Treated Douglas Fir — Standard Specification FDN, by AWPB.

All wood in direct contact with earth or concrete shall be pressure treated. Bearing and shear walls shall have double top plates, lapped at wall and partition intersection with 3 — 16d nails. Splice upper and lower plates as in "Typical Stud Wall & Opening Framing Detail" on Typical Detail Sheet \$1.2.

Provide solid blocking between joists and rafters at all supports.

Provide blocking at all ceiling levels. Joists under and parallel to partitions shall be doubled and nailed together. The moisture content of 2x material and holdown post at time of installation shall be less than 19%. The moisture content of lumber 3x and larger at time of installation shall be less than 30%. Holes for bolts in wood shall be bored with a bit of the same nominal diameter as the bolt plus 1/16". Holes for lag screws shall be first bored to the same diameter and

depth as the unthreaded shank, and the rest to 50% of the shank diameter. Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate screws. All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to inserted expanding fasteners, Red

OLT DIAMETER MI WASHER STEEL WASHER

1/2" dia 2-1/2" dia x 1/4" 2" x 2" x 3/16"

5/8" dia 2-3/4" dia x 5/16" 2-1/2" x 2-1/2" x 1/4"

3/4" dia 3" dia x 7/16" 3" x 3" x 5/16"

7/8" dia 3-1/2" dia x 7/16" 3-1/2" x 3-1/2" x 3/8"

1" dia 4" dia x 1/2" 3-3/4" x 3-3/4" x 3/8"

solts and lag screws shall be tightened on installation and retightened by 12. All bolts and lag screws shall be tightened on installation and retightened before

closing in or at completion of job.

Lay all structural plywood on roof and floors with face grain perpendicular to supports unless noted otherwise. Block shtg joints with flat blocking where noted on roof or floor framing plans and with 3x stud width blocking at walls. Use plyclips at midspar of unsupported roof plywood edges. Framing hardware shown on the plans is Simpson Strong-Tie. Use framing hardware as manufactured by Simpson Company or equivalent. Prior to installation of any non-Simpson hardware, the contractor shall submit a list of all detail references where a hardware substitution is proposed, the designation or the Simpson item and non-Simpson proposed equivalent and an ICBO report

for each substitution item. Notify Structural Engineer after wall, floor, and roof shtg nailing has been completed and a minimum of 48 hours prior to concealing shtg. No upset threaded bolts allowed. No upset threaded bolts allowed.
Use of machine nailing is subject to a satisfactory job site demonstration for each project and approved by the project Architect or Structural Engineer and DSA/ORS. The approval is subject to continued satisfactory performance.
Machine nailing will not be approved in 5/16" plywood. If nail heading the project to the subject to the provided in the subject to the project that the the outer ply by more than would be normal for a hammer or if minimum allowable edge distances are not maintained, the performance will be deemed

Field cuts and bolt holes in pressure treated wood shall be protected in accordance with AWPA standard M4.

NAILING SCHEDULE

All nails for structural work shall be common wire nails conforming to the following minimum sizes: 0.131" diameter x 2-1/2"
 0.148" diameter x 3" 10d shorts - 0.148" diameter x 1-5/8" plus thickness of shta (sheathing nails) - 0.162" diameter x 3-1/2"

– 0.192" diameter x 4" Where 20d nails are specified, use 20d box nails - 0.148" diameter x 4" at unscheduled walls.

Holes shall be sub-drilled where necessary to prevent splitting. Nailing not noted below or on plans shall be a minimum of two nails at each contact. 8d for 1 material and 16d for 2" material.

| 1, | Joists or Raftersto sides of studs | 8" joists or less 3-16d |
|------------|---|--------------------------------|
| | | each additional 4" depth 1-16d |
| | at all bearings | TN each side2-10d |
| 2. | Studs to Bearings 2x4 studs | TN each side2-10d |
| | • | EN in place of TN2-16d |
| | 2x6 & 2x8 studs | TN each side 3-10d |
| | | EN in place of TN 3-16d |
| <i>3</i> . | Blocking between joists, rafters | TN each side each end2-10d |
| | or studs | EN in place of TN2-16d |
| | between joist or | TN each side3-10d |
| | rafter bearings (plates) | |
| 4. | Ledgersto studs | 1" ledger2-8d |
| | | 2" ledger2-16d |
| <i>5</i> . | Double Top Plates lower plate to 2x4 stud | |
| - | | 2×8 etud 3-16d |

2-16d lower plate to 2x6 or 2x8 stud -----upper plate to lower plate-----See "Typical Stud Wall & Opening Framina" on Typical Detail Sheet 6. Sill Plates -----to parallel framing -----------------------20d @ 12"cc to perpendicular framing--each contact ---- 2-20d 7. Multiple Studs ---- stagger for widths more than 4"------16d @ 12"cc 8. Built Up Beams --- 10" or less in depth each side staggered--- 16d @ 12"cc more than 10" in depth----- 1/2" diameter bolts at 24"cc staggered 9. Ceiling Stripping --- holes shall be pre-drilled 1" thick ---- 2-8d (1-slant) for nails at ends of

2" thick----2-16d (1-slant) Where ceiling is plaster or 5/8" gypsum use Annular Ring Nails (no slant). 10. Structural Sheathing ------See "Structural Sheathing & Siding Nailing" detail on Typical Detail Sheet.

11. Non-Structural---at supported edges finish nails-----6d @ 6"cc Sheathing at Interior bearings finish nails------6d @ 6"cc 12. Use deformed shank nails for all floor sheathing.

13. All exposed fasteners shall have a zinc-coating corrosion resistance. 14. Nails used into pressure treated lumber shall be hot dipped galvanized per

GLUED LAMINATED BEAMS

1. Glued Laminated beams shall be manufactured from visually graded Western species and shall conform to the following combinations: Simple Span Members: 24F-V4 $F_b=2400$, $F_v=190$, $E=1.8\times10^{\circ}$, $F_c=650$ psi psi psi psi psi psi psi 6 Cantilever & Continuous Members: <u>24F-VB</u> F_b=2400, Fv=190, E=1.8x10 , F_c=650 Exterior Members not protected from weather: 20F-V12 Alaskan Yellow Cedar (all heartwood) 2. Camber all beams as indicated on plans between supports (no camber at

cantilevers), unless noted otherwise. 3. All glulam timber fabrication inspection per section 2304A.4 of the 2001 CBC shall be continuous. Inspector shall be approved by the enforcement agency. An AITC/ANSI certificate or stamp is not acceptable. 4. All Glued Laminated beams shall be fabricated using wet-use adhesives

complying with ANSI/AITC A190.1. Fabrication shall be in accordance with CBC section 2304A.4.

5. All exterior Glued Laminated beams shall be fabricated for wet conditions All members shall have appropriate protection during transit, storage, and erection (load wrapped min for transit).

Maximum moisture content at the time of gluing shall not exceed 12% (10% for members permanently exposed to direct sunlight). The range of moisture content of laminations assembled into a single member shall not exceed 5% at the time of gluing.

For glulam laminating requirements, see detail 1/S1.1

TYPICAL SIMPSON HARDWARE NOTES

Simpson hardware for this project has been specified using 100% of the allowable load values and product information given in the Simpson catalog #C-2004 dated January 1, 2004. A 20% reduction has been used for projects under DSA and

2. Plans, sections and details indicate general product type and any required modifications (i.e.: slopes and skews). Specific catalog call outs are determined by individual member sizes.

Plans/sections indicate 2x10 members supported by Simpson 'U' hangers.
Simpson call-out: U210. Plans/sections indicate 5-1/8"x18" glb supported by 4x6 post and Simpson ECC cap. Simpson callout: ECC5&1/4-4 or option with straps rotated 90° ECC5&1/4-6. Where the Simpson catalog indicates two sizes may be used for the same size member, use the larger size.

<u>Example:</u>
Plans/sections indicate 4x8 member supported by Simpson LUS hangers.
Simpson catalog indicates LUS46 or LUS48 may be used. The LUS48 shall be used unless noted otherwise. 4. Use Simpson 'max' nailing configuration ("fill all holes with nails"), typical unless noted otherwise. Where optional nail sizes are indicated in Simpson catalog, use largest nail size

listed, typical unless noted otherwise. 6. Simpson hardware supplier shall submit material list itemizing hanger designation, load rating, supported member size and location of installation for review by the enforcement agency and the Structural Engineer.

-1/8 depth plus 1 lam 12.5% 125%

-1/8 depth plus 1 lam Tension zone = top 4 bottom full lenath

Simple Beams (SB)

Shaded area = 6" min joint spacing per ANSI/AITC A190.1 and ASTM D3737 approved modification of specification

Continuous Beams (CB)

for structural glued laminated members. Glulam Beam Detail (51

| | RCEMENT LA | | | - | <u>A</u> <u>S1.1</u> | | | | 1997 | 18-95 UBC CBC |
|-----------------|-------------------|----|-----------|---------|-------------------------|------|----|-----|------|---------------------|
| | | | fe | c' 30 | 100 psi | conc | | | | |
| Splice Class | Reinf Location | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
| | Тор | 22 | 29 | 36 | 43 | 63 | 72 | 81 | 91 | 101 |
| A | Other | 17 | 22 | 28 | 33 | 48 | 55 | 62 | 70 | 78 |
| 5 | Тор | 28 | <i>37</i> | 47 | 56 | 81 | 93 | 105 | 118 | 131 |
| B | Other | 22 | 29 | 36 | 43 | 63 | 72 | 81 | 91 | 101 |
| | | | fe | c' = 40 | 00 psi | conc | | | | |
| Splice Class | Reinf Location | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
| | Тор | 19 | 25 | 31 | <i>37</i> | 54 | 62 | 70 | 79 | 87 |
| A | Other | 15 | 19 | 24 | 29 | 42 | 48 | 54 | 61 | <i>67</i> |
| B | Тор | 24 | 32 | 40 | 48 | 70 | 80 | 91 | 102 | 113 |
| Ø | Other | 19 | 25 | 31 | 37 | 54 | 62 | 70 | 79 | 87 |

Schedule applies to uncoated. Grade 60 reinforcina steel and normal weight

All lap splices shall be class B, uno. Top reinforcement is horizontal reinforcement located such that more than

With all required increases, lap splice length shall not be less than 53 bar dia.

12 inches of fresh concrete is cast in the member below the splice. When lightweight concrete is used, multiply lap lengths by 1.30. Where clear spacing of bars being spliced is less than 2 bar dia. OR

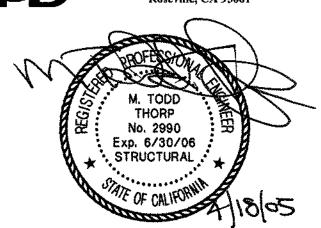
where clear cover of bars being spliced is less than 1 bar dia., multiply lap lengths by 1.50, uno. Where notes #4 <u>AND</u> #5 occur, multiply lap lengths by 2.00, uno. DREYFUSS BLACKFORD

ARCHITECTS

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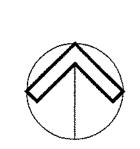
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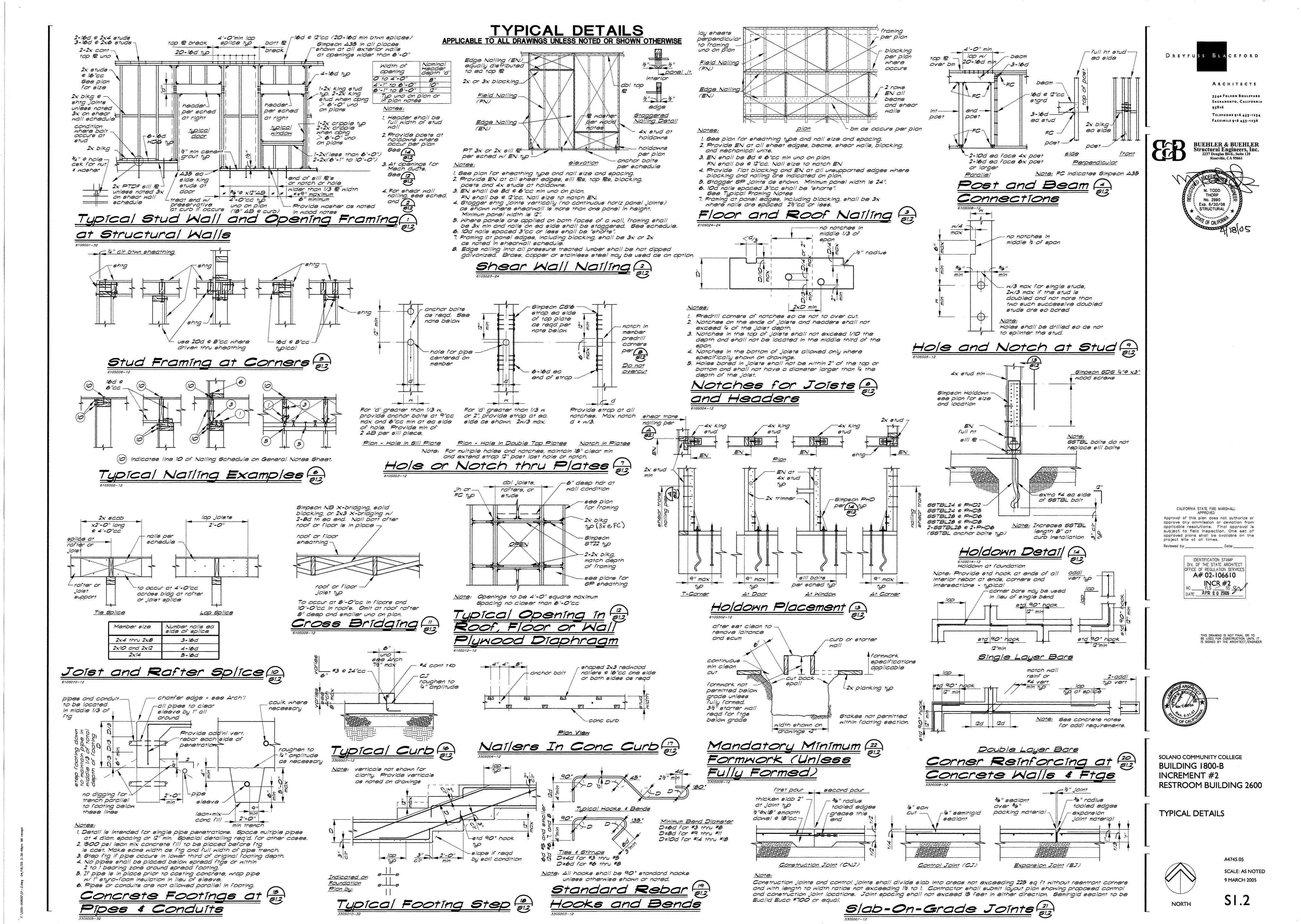
SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600**

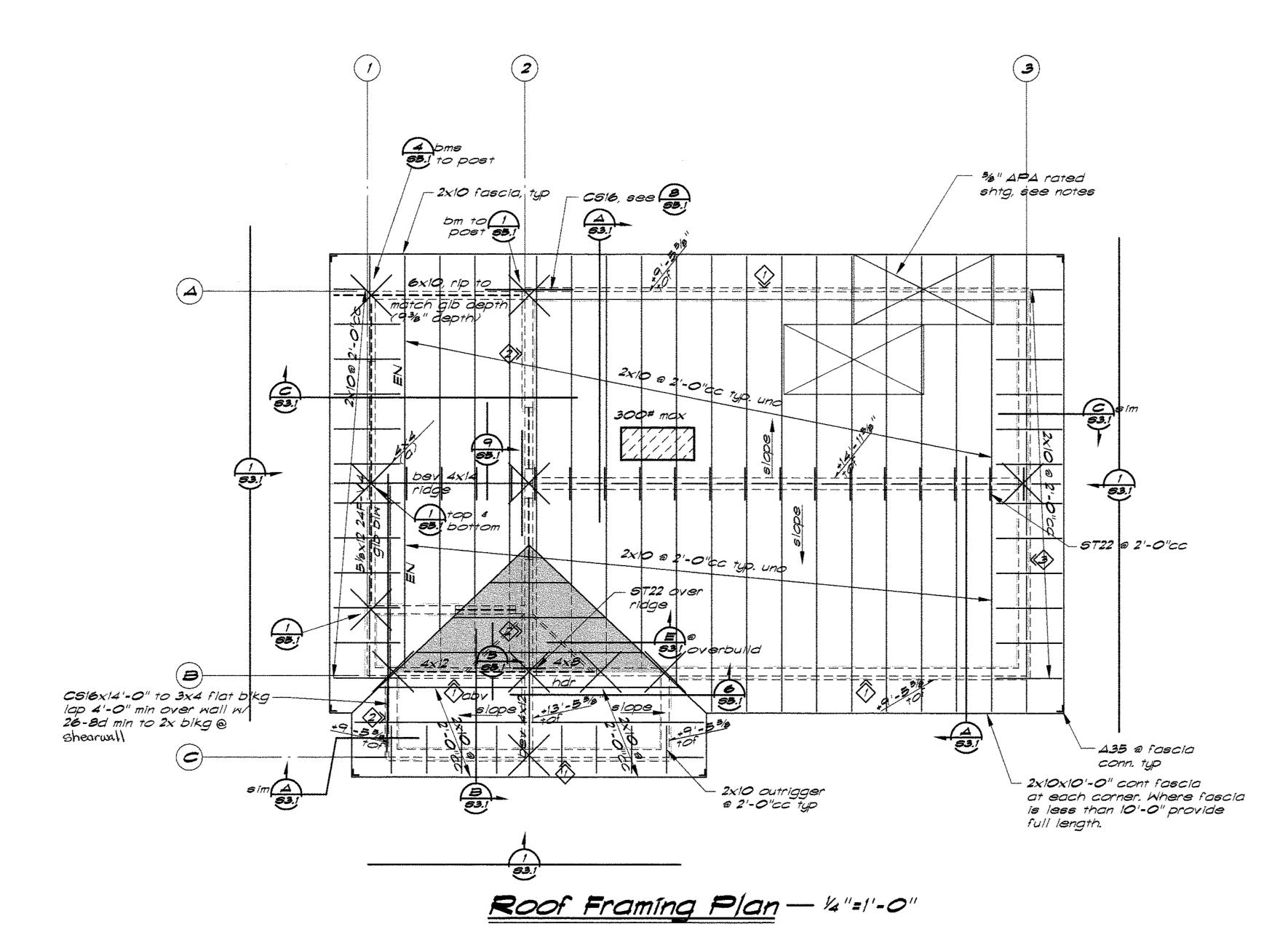
GENERAL NOTES

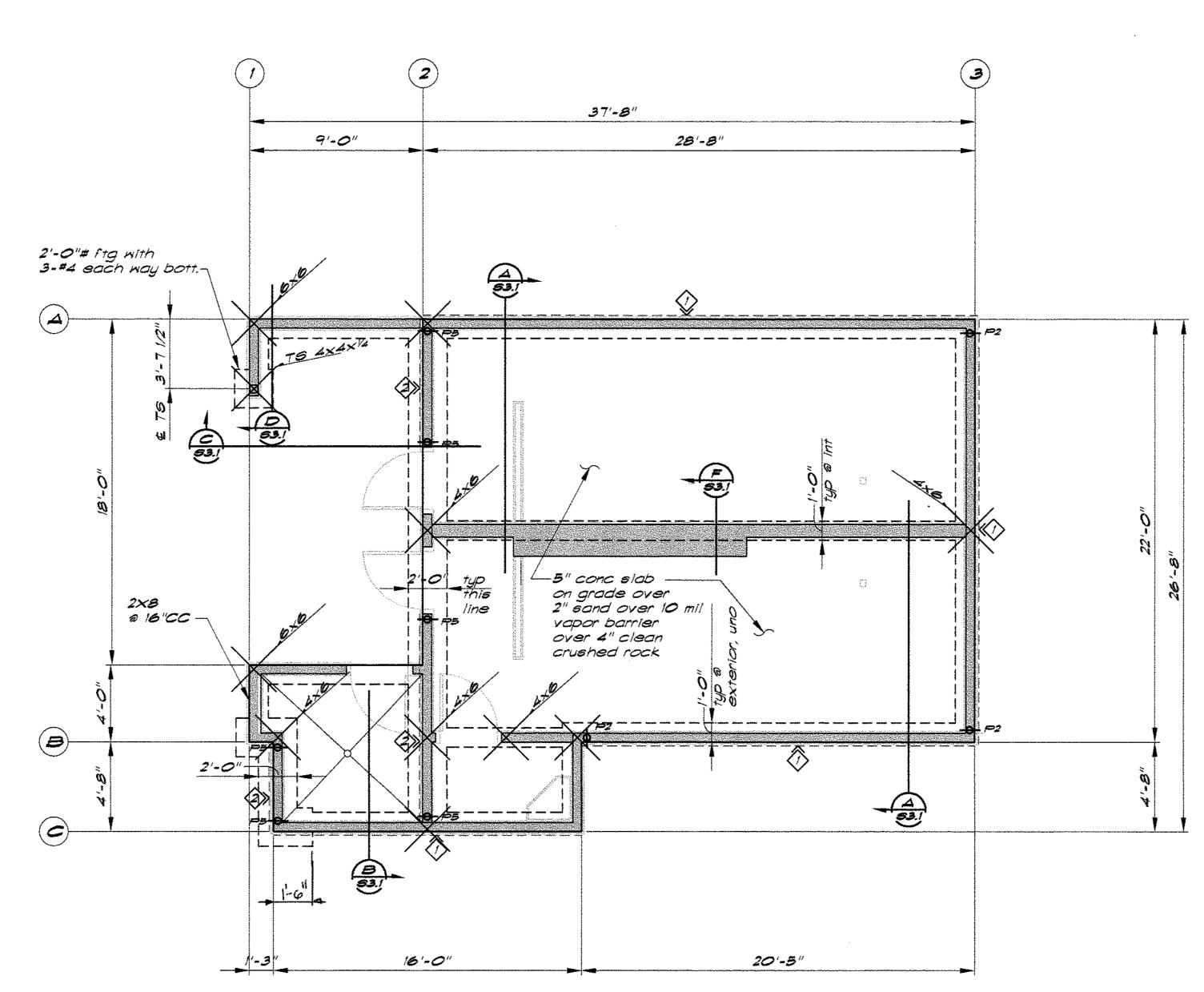


SCALE: AS NOTED 9 MARCH 2005

A4745.05







Foundation Plan - 4"=1'-0"

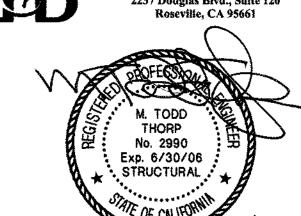


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Roof Framing Plan Notes:

3/6" roof sheathing where indicated shall be 19/32" CDX plywood (32/16) nailed with 10d shorts a 6"cc a all supported edges and 10d shorts @ 12"cc @ field. No blocking a unsupported edges unless noted on plan. Provide one plyclip between each framing member a unsupported edges.

2. 7377 Indicates mech'l unit below & max. allowable ELLA weight (unit+accessories)

Mech'l units are to be field located. 3. ____ Indicates header below.

All headers shall be 6x10 uno on plan Headers in non-bearing walls shall be per 512 4. Indicates plywood shearwalls below-see schedule A

5. X Indicates 4x wood post below continuous to foundation

 \cancel{K} 0' Indicates wood post above not continuous to foundation.

Indicates top of framing elevation.

7. See sheets 51.1 thru 51.2 for typical details which are applicable to all drawings uno.

8. See 12 for mechanical duct penetrations through shearwalls.

Shear Wall Schedule (A)

| 05251- | -1 | CDX W | MC<19% | | | |
|----------|-----------------------|-------|---------------------------|--|-------------------|-----------------|
| ® | Sheathing Material | | المستدور وتعملها المستداد | shear/sill Transfer Nailing D | Anchor Bolting | Allow Shear |
| ♦ | ½" shtg 1 side | 2x | 10d a 6"cc | 16d @ 6"cc | 3/4" | 23 2 pif |
| ② | ½" shtg 1 side | 2x | 10d @ 4"cc | 16d @ 4"cc | ³¼"¢ @ 48"CC | 345 pif |
| 3 | ½" shtg 1 side | 3х | 10d @ 3"cc staggered | 16d 0 3"cc | 34" | 450 pif |

Footnotes:

- A. APA rated CD-X sheathing.
- B. Top plates may be 2-2x nominal.
- C. For shear wall nailing and framing requirements see 2
 51.2

 D. Where indicated on other sections and details.
- D. Where indicated on other sections and details.
- E. 12 Inch long anchor bolts. Use 18" long bolts at curbs, typ." See 'Wood' Notes for washer requirements.

Foundation Notes:

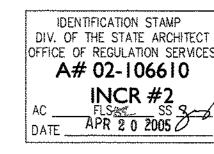
- 1. Site preparation and building pad construction shall be done in accordance with CBC.
- 2. Slab on grade shall be 5" thick concrete w/ #3 @ 18"cc each way @ mid-depth. Base shall be 2" sand bed over 10 mil. vapor barrier over 4" bed of clean rock or gravel.
- 3. All dimension are to face of stud or center lines uno.
- 4. Indicates 6" high concrete curbs. All exterior wood walls to receive 6" concrete curbs typ. See arch'l for exact locations of curbs a non-structural walls. See 16 for curbs a 512 non-structural walls.
- Indicates 6x6 post typical, depth to match stud depth where depth is greater than 6".
- Indicates TS4x4 column typical. Indicates Simpson PHD to post-see detail 14
 513
 Center footing on post, typ, uno.
- 8. Indicates shear wall type. For anchor bolt requirements, see schedule A All exterior walls receive (1) plywood 52.1 uno on plan. Dashed line indicates extent of shear wall.
- 10. Indicates Elevation to top of footings.

 Top of footing is 11" below top of slab uno on plan.
- 11. Verify all building dimensions w/ Arch'l drawings. Notify the Architect immediately if there are any conflicts with the dimensions shown.
- 12. It is the contractor's responsibility to coordinate slab control joints w/ location of tile crack control joints. Verify tile crack control joints w/ Arch'l drawings.
- 13. CJ indicates control joint per 312. Any CJ may be a construction joint at the contractor's option.
- are applicable to all drawings uno. 15. All structural bearing and shear walls shall be 2x6 stude
- 16. Indicates slab on grade sloped to drain. See Arch'l for amount of slope.

14. See sheets S1.1 thru S1.2 for tupical details which

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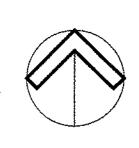


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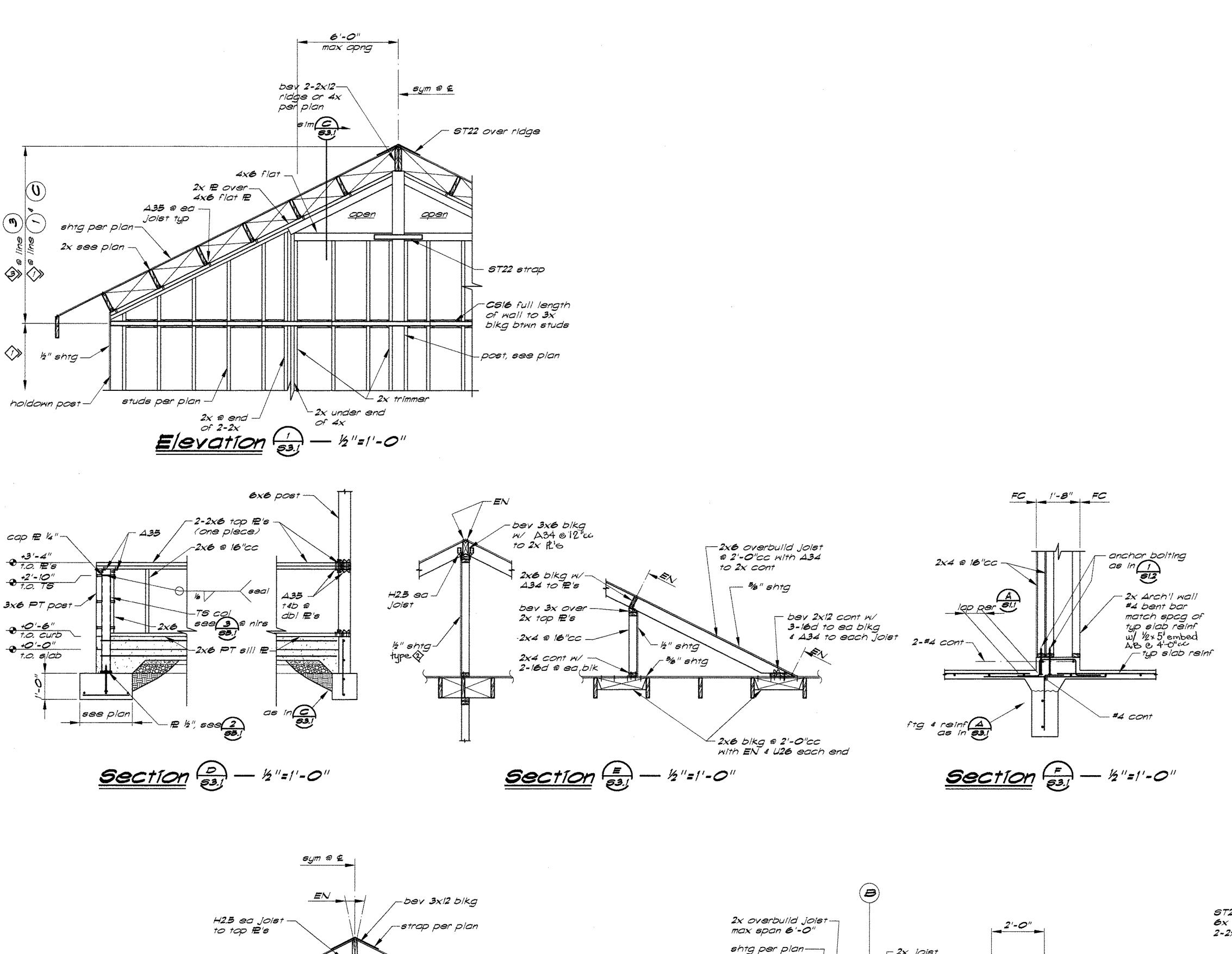


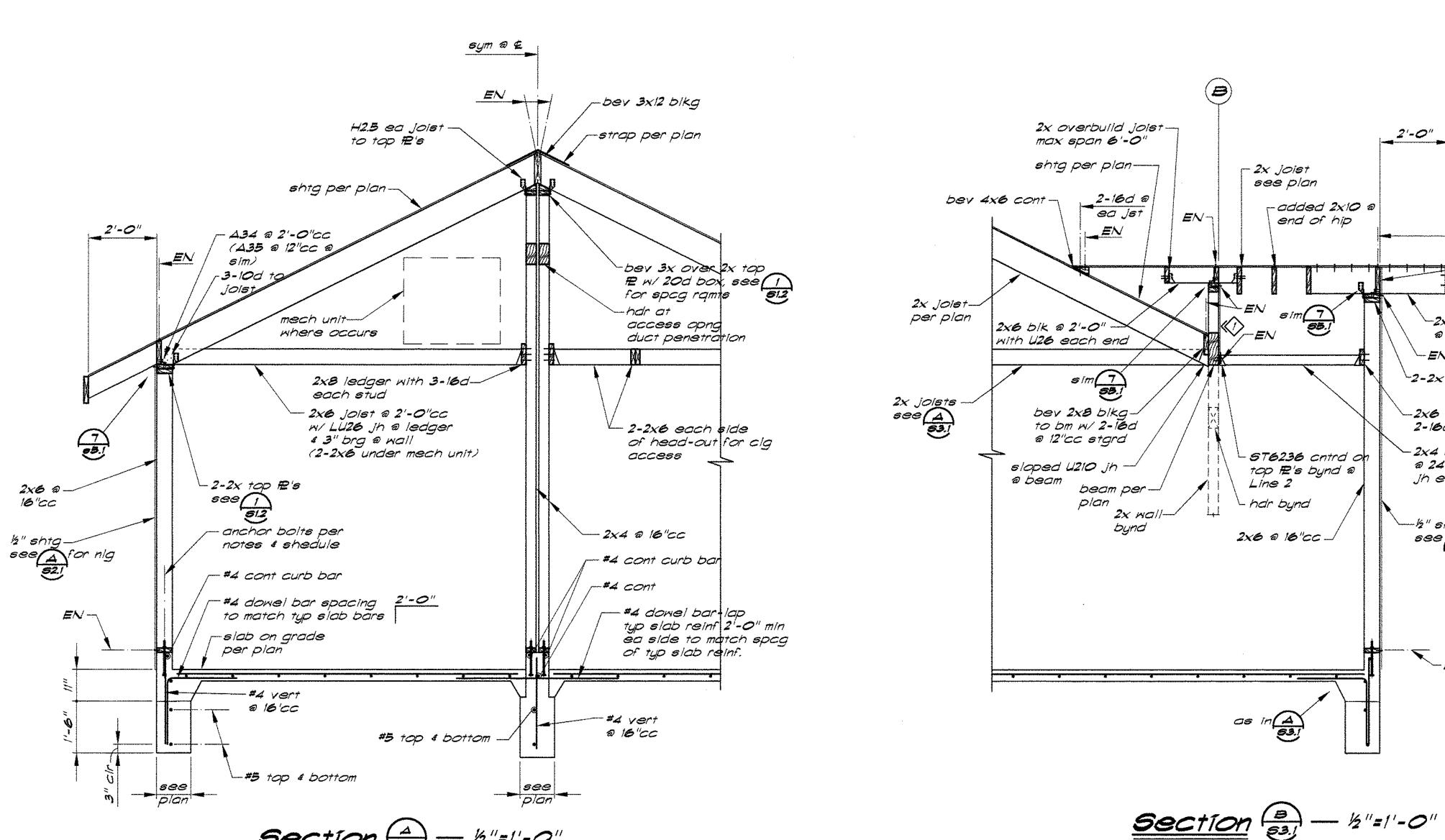
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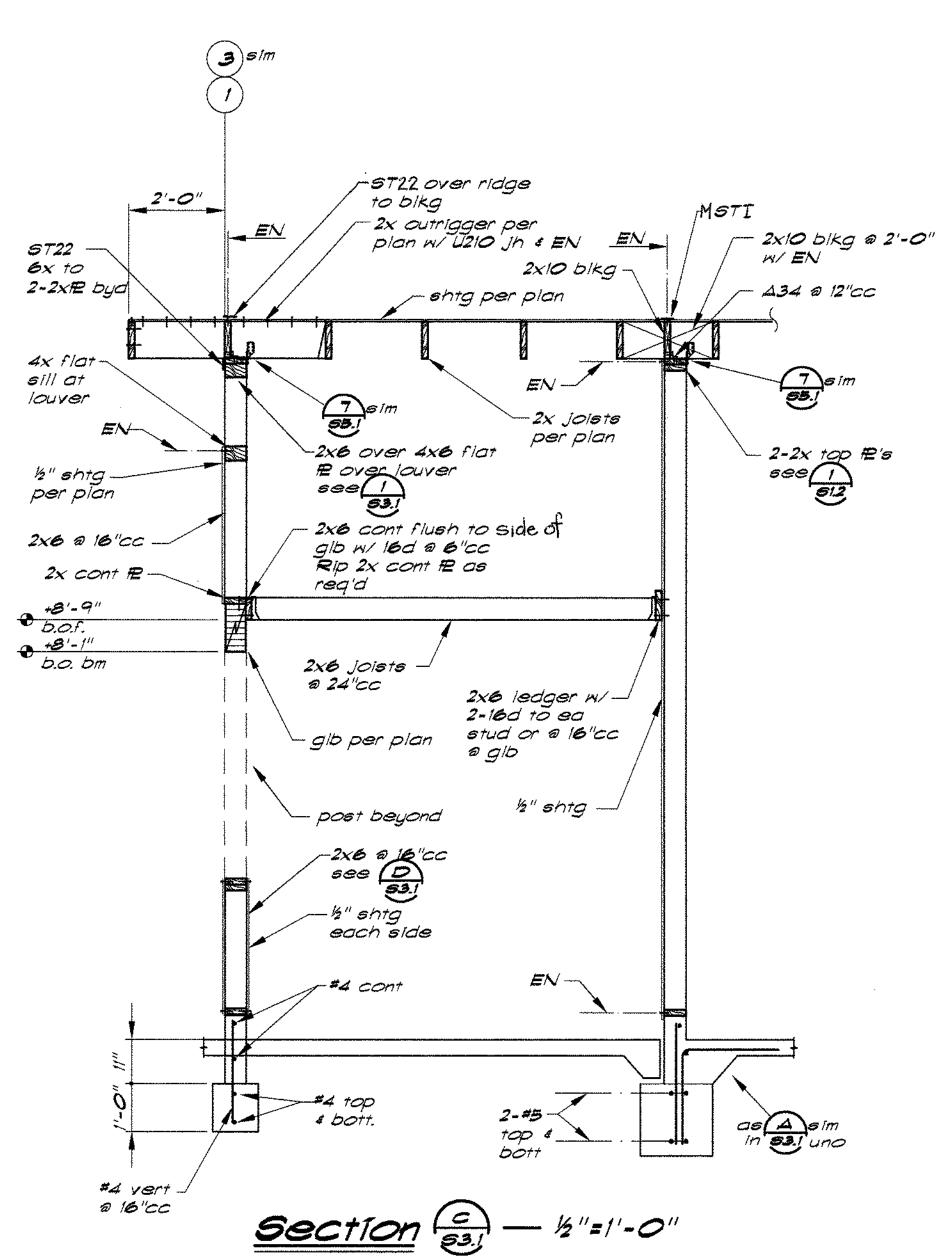
FOUNDATION AND **ROOF FRAMING PLANS**



A4745.05 SCALE: AS NOTED 9 MARCH 2005







EN

-2x10 outrigger @ 24"cc w/ EN

2-2x Æ's

-2x6 ledger w/ 2-16d ea stud

2x4 clg joists
a 24"cc w/ U24

see A for nig

jh ea end

-2x10 blkg with A34

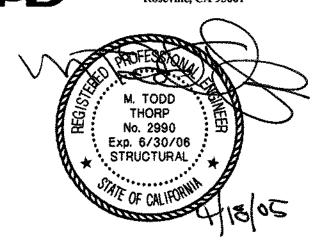


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Reviewed by:

Date:

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OFFICE OF REGULATION SERVICES

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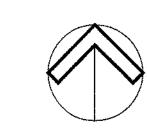
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INCREMENT #2
RESTROOM BUILDING 2600

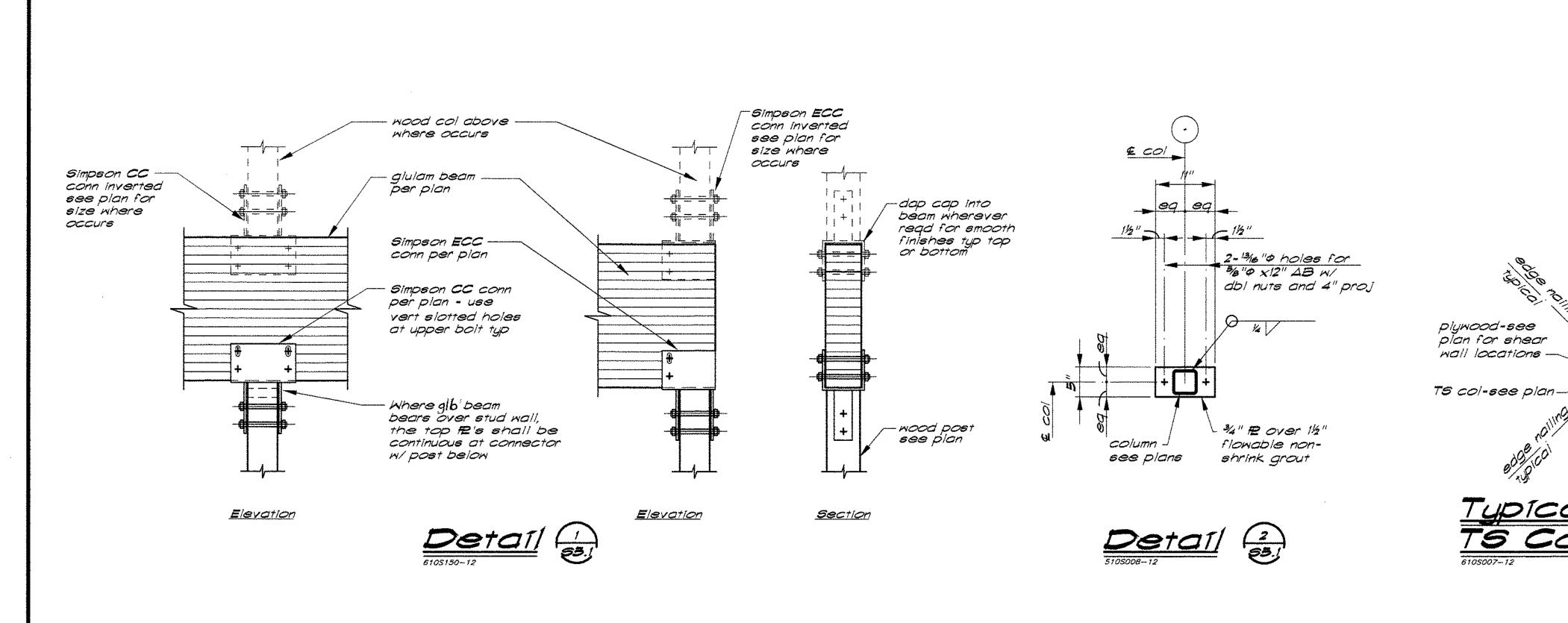
SECTIONS

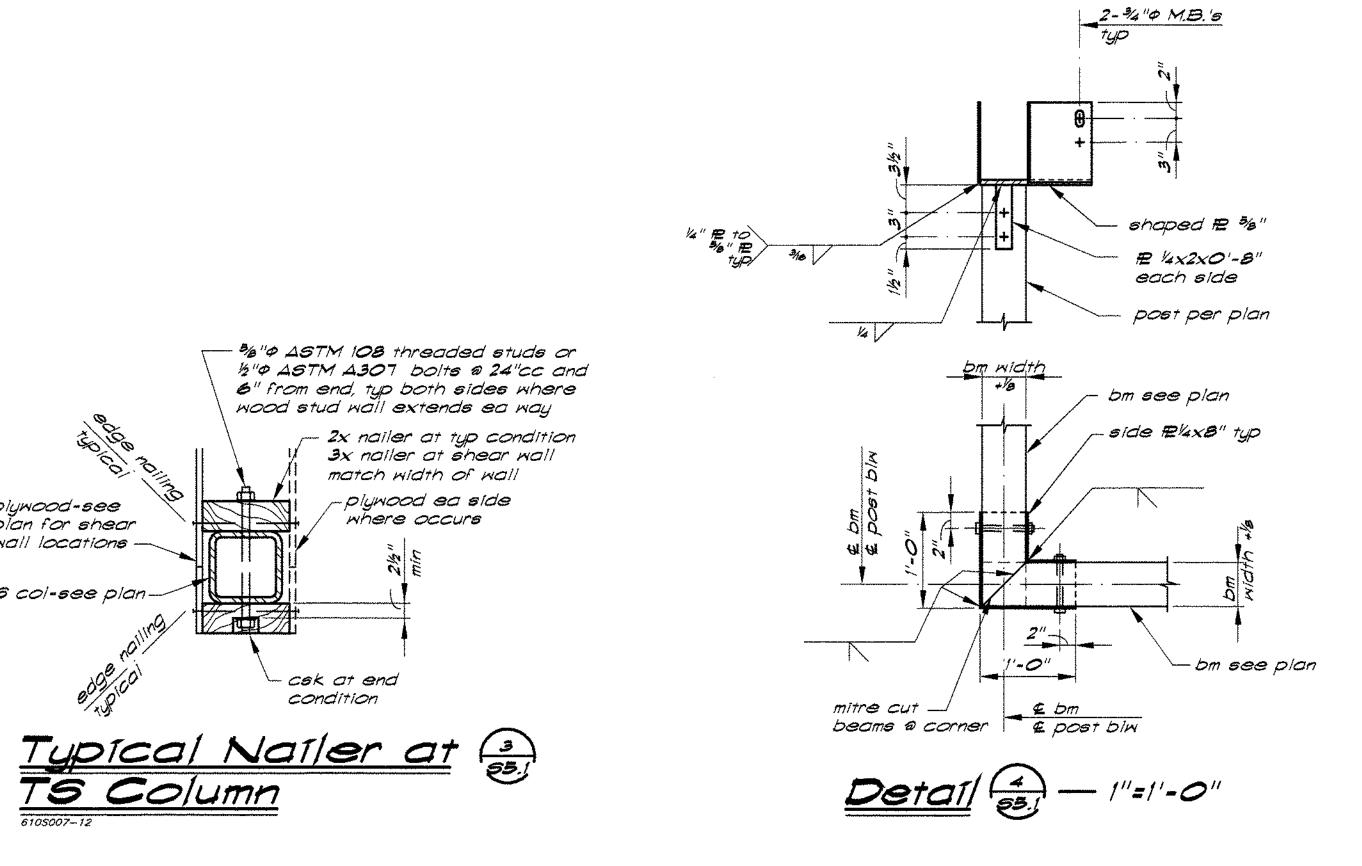


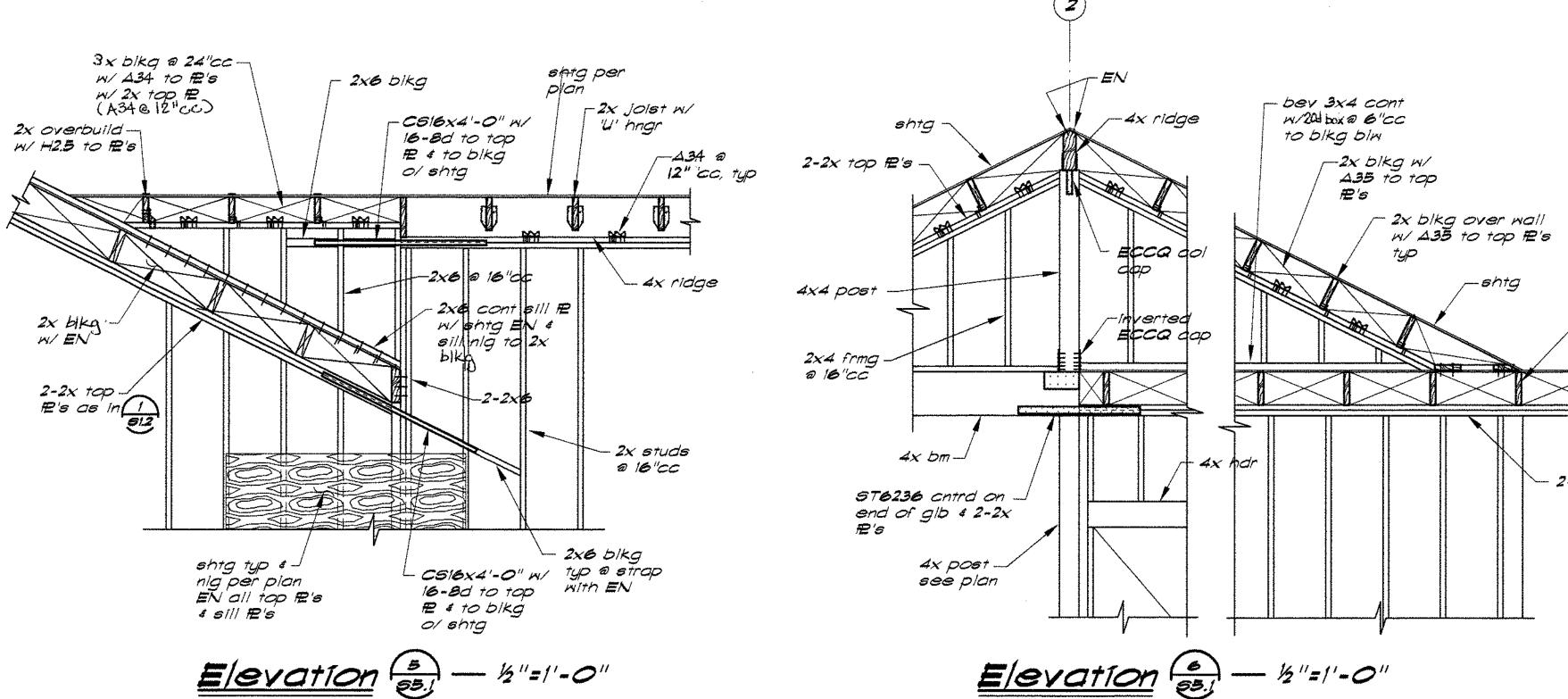
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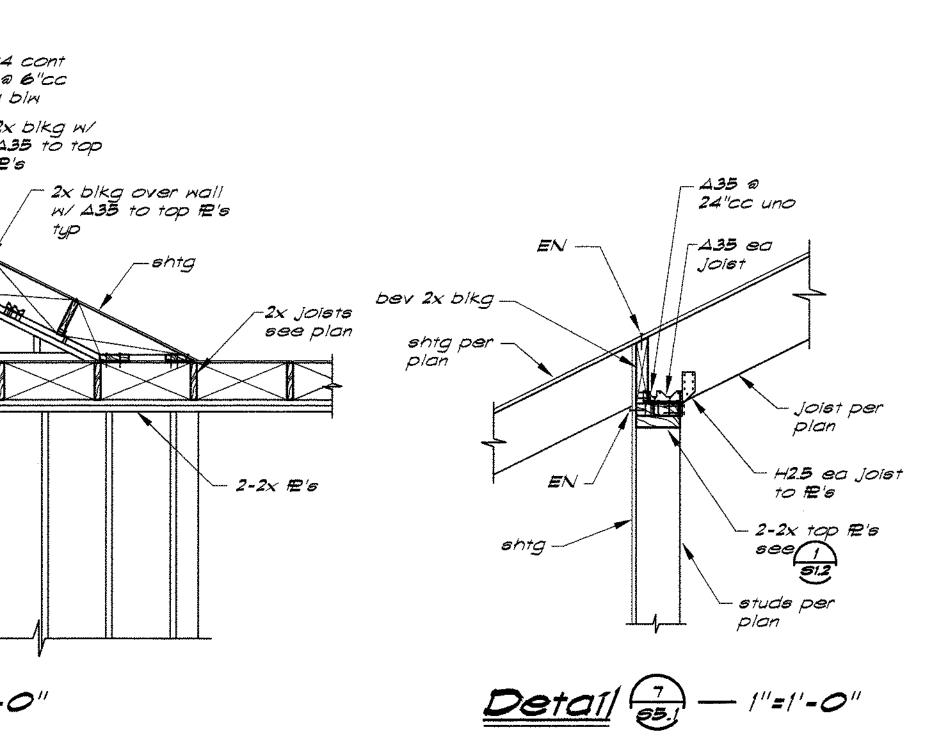
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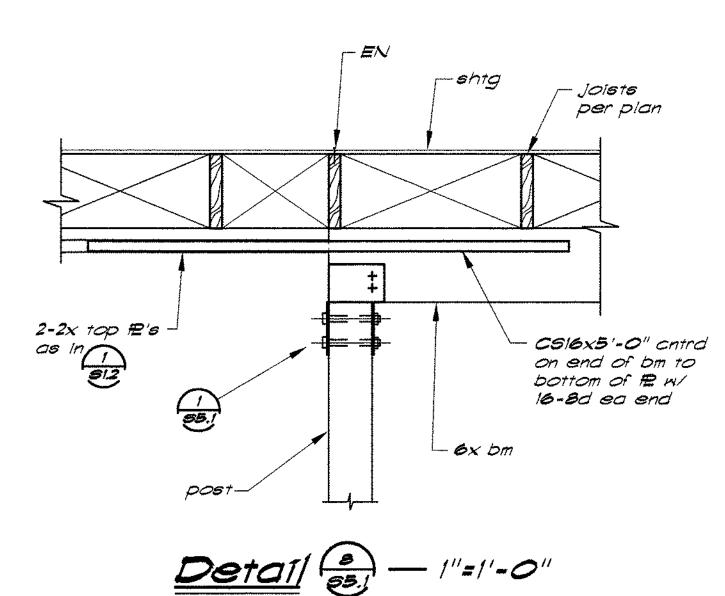
S3.1











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DATE __APR 2 0 2005

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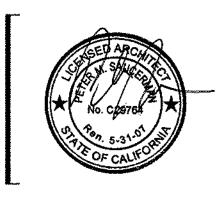
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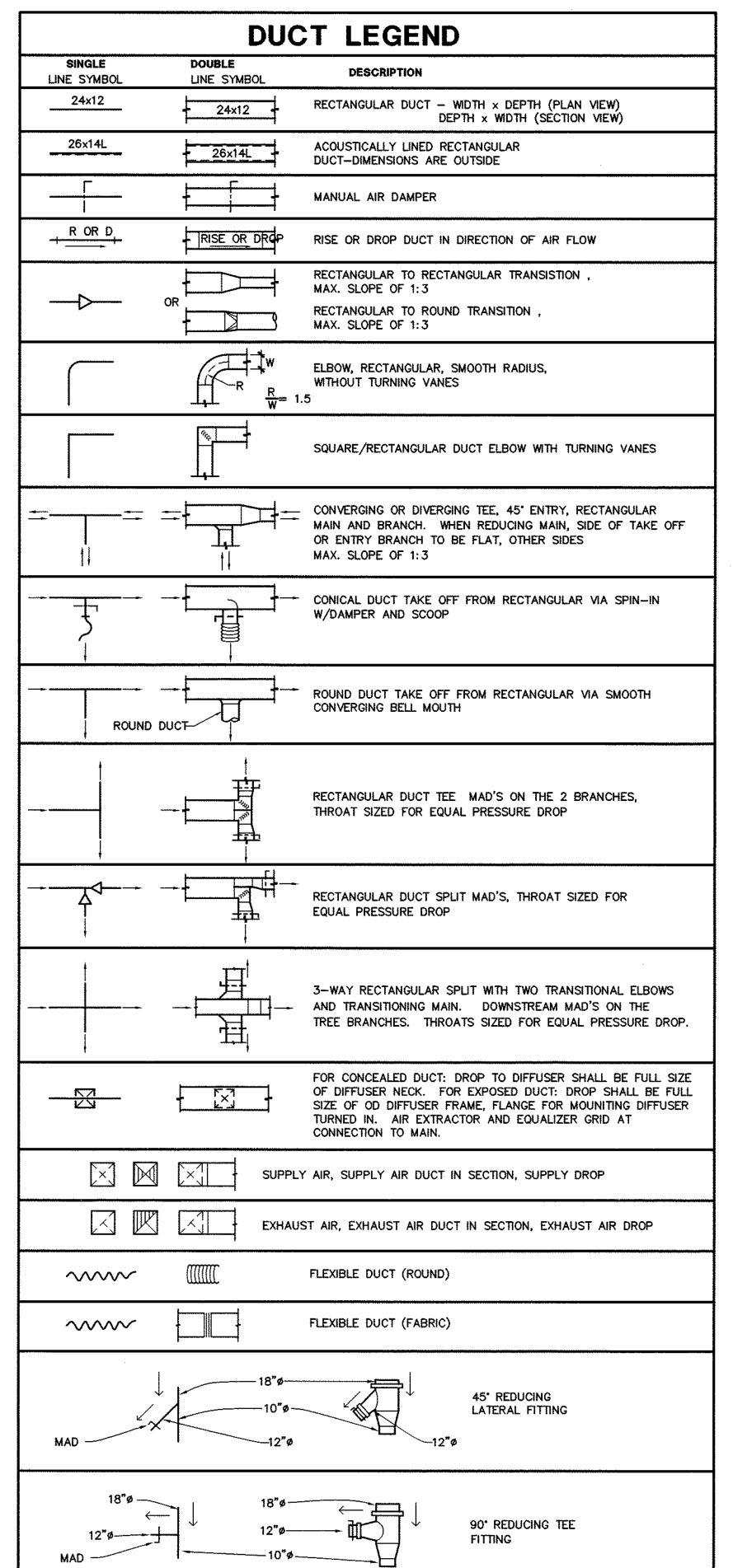
SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600**

DETAILS



A4745.05 SCALE: AS NOTED 9 MARCH 2005

– 4x ridge bm over ridge rbikg & shr transfer per 53.1



| | MECHA | NICAL LEGEND |
|-------------|--------------|-----------------------------------|
| SYMBOL | ABBREVIATION | DESCRIPTION |
| | ABV | ABOVE |
| | ABC | ABOVE CEILING |
| | AF | ABOVE FLOOR |
| | AFF | ABOVE FINISHED FLOOR |
| | AFG | ABOVE FINISHED GRADE |
| \square | AD, AP | ACCESS DOOR , ACCESS PANEL |
| | AC | AIR CONDITIONING |
| | ₿V | BALL VALVE |
| | BDD | BACK DRAFT DAMPER |
| | BHP | BRAKE HORSE POWER |
| | Вти(н) | BRITISH THERMAL UNITS (PER HOUR) |
| | CEF | CEILING EXHAUST FAN |
| | CONC | |
| | CONC | CONCRETE |
| | COURT | CONCENTRIC REDUCER |
| | CONN | CONNECT OR CONNECTION |
| | CONT | CONTINUATION |
| - | CONTR | CONTRACTOR |
| f | CFM | CUBIC FEET OF AIR FLOW PER MINUTE |
| | DPR | DAMPER |
| ۳ | | DEGREES FAHRENHEIT |
| ø | DIA | DIAMETER, PHASE |
| | DL | DOOR LOUVER |
| | DN | DOWN |
| | DR | DRAIN |
| | DB | DRY BULB (DEGREES FAHRENHEIT) |
| D | | ECCENTRIC REDUCER |
| | EP | ELECTRICAL PANEL |
| | 1 | ELEVATION |
| | EL | |
| | ENT | ENTERING |
| | EDB | ENTERING DRY BULB |
| | EWB | ENTERING WET BULB |
| | EA | EXHAUST AIR |
| | EAD | EXHAUST AIR DAMPER |
| | EF | EXHAUST FAN |
| | ESP | EXTERNAL STATIC PRESSURE |
| | FC | FLEX CONNECTOR |
| | FPM | FEET PER MINUTE |
| | FIN | FINISH |
| | FC | FLEXIBLE CONNECTION |
| | FLR | FLOOR |
| | FA | FROM ABOVE |
| | FB | FROM BELOW |
| | FLA | FULL LOAD AMPS |
| | GA | GAUGE |
| | HTG | HEATING |
| | 1115 | |
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| <u>N</u> | IECHANIC | AL LEGEND cont'd |
|--------------|-----------------------------|---|
| SYMBOL | ABBREVIATION | DESCRIPTION |
| | LVR | LOUVER |
| | MAD, MD MAX | MANUAL AIR DAMPER MAXIMUM |
| | MIN | MINIMUM |
| | MCC | MOTOR CONTROL CENTER |
| | (N) | NEW |
| | oc | ON CENTER |
| | OA | OUTSIDE AIR |
| | OAD | OUTSIDE AIR DAMPER |
| X | | PIPE ANCHOR |
| (| | PIPE DROP |
| | | PIPE GUIDE |
| | | PIPE RISE |
| | RA DIA | RETURN AIR |
| | RAD | RETURN AIR DAMPER |
| | RPM | REVOLUTIONS PER MINUTE |
| 6 | RLA | RUNNING LOAD AMPERES |
| © | GM. | ROOM SENSOR SHEET METAL |
| | SM SQFT, FT ² | SQUARE FEET |
| • | SQIN, IN ² | SQUARE INCHES |
| | 5P | STATIC PRESSURE |
| | SPD | STATIC PRESSURE DROP |
| | SA | SUPPLY AIR |
| | 5F | SUPPLY FAN |
| | TCP | TEMPERATURE CONTROL PANEL |
| _ | TCV | TEMPERATURE CONTROL VALVE |
| n ⊕x | | TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED |
| Q v | | THERMOMETER |
| ' ①x | T | THERMOSTAT, "X" INDICATES DEVICE CONTROLLED |
| | мвн | THOUSAND BRITISH THERMAL UNITS PER HOUR |
| | TΔ | TO ABOVE |
| | тв | TO BELOW |
| | ΤP | TOTAL PRESSURE |
| | TSP | TOTAL STATIC PRESSURE |
| | TYP | TYPICAL. |
| | UG | UNDERGROUND |
| | UON | UNLESS OTHERWISE NOTED |
| | YLY | VALVE |
| | WPD | WATER PRESSURE DROP |
| | W | WATT6 |
| | WT | WEIGHT |
| | WB | WET BULB |
| | WMS | WIRE MESH SCREEN |
| | WP | WORKING PRESSURE |
| | | |
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SOLANO COMMUNITY COLLEGE **BUILDING 1800-B** INCREMENT #2 **RESTROOM BUILDING 2600**

MECHANICAL LEGEND & **GENERAL NOTES**

> A4745.05 AS NOTED 20 APRIL 2005

GENERAL NOTES

I. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN AS EXISTING PRIOR TO THE INSTALLATION OF ANY NEW WORK.

2. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.

3. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF NEW, IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.

4. FURNISH AND INSTALL DUCT INSULATION ON ALL NEW DUCTWORK. INSULATION SHALL MEET ALL REQUIREMENTS AS SET FORTH BY THE MECHANICAL SPECIFICATIONS.

DIFFUSER, REGISTER & GRILLE SCHEDULE

| SYMBOL | DESCRIPTION | TITUS | BAILEY | METALAIR | KRUEGER |
|---------|--|-------------------------------|---------|----------|------------------|
| CD × | MODULAR CORE CEILING DIFFUSER, SURFACE MOUNT, FLAT FRAME | MCD - BORDER TYPE I | AQDV | 1-0009 | 1240 FRAME 22 |
| CE | CEILING EXHAUST WITH ½" EGG CRATE CORE SURFACE MOUNT | MODEL 50 F - BORDER TYPE I | CRE-507 | CC5D | EGC-5 |

- NOTES: I. ALL SYMBOLS NOTED MAY NOT BE USED.
 REFER TO PLANS FOR SIZE AND QUANTITY.
 - 2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW
 - UNLESS SHOWN OTHERWISE. 3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER, EXCEPT AS NOTED
 - 4. COORDINATE DIFFUSER LOCATION WITH

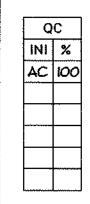
WHERE DASHES SHOWN IN SCHEME, EQUAL

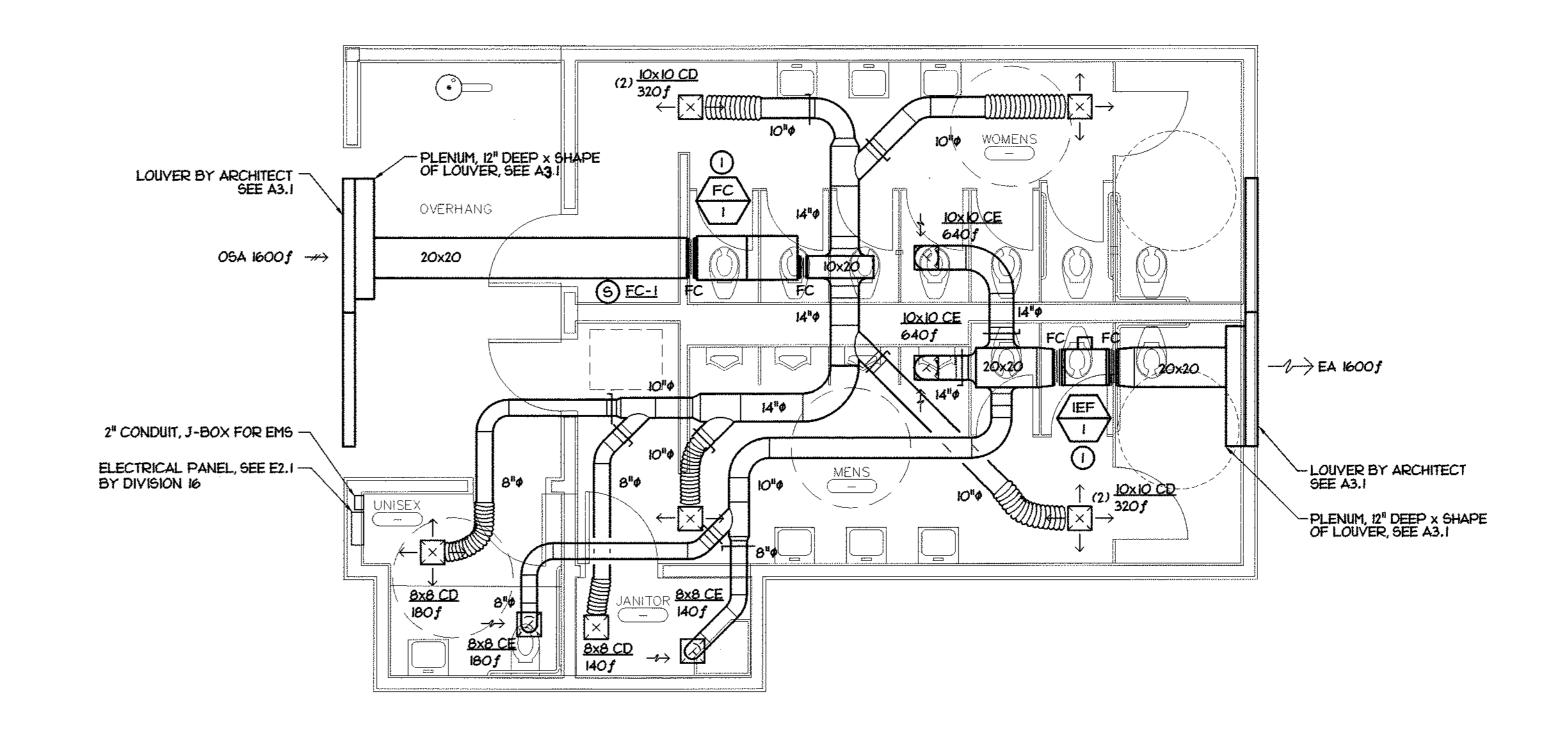
- 5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.
- 6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER,
- REGISTER OR GRILLE. 7. FOR DIFFUSER/GRILLE MOUNTING DETAIL,
- TO "TITUS" MAY BE FURNISHED. SEE 2/M5.1. ARCHITECTURAL REFLECTED CEILING PLAN

MECHANICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION PER THE SPECIFICATIONS.
- 3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH CEILING AND
- WALLS WITH ARCHITECTURAL AND STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- 4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, ELECTRICAL, AND EQUIPMENT PRIOR TO COMMENCING WORK.
- 5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
- 6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DUFFUSER.
- 7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- 8. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9" \$ 9x9), CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM AT DIFFUSER TO ACCOMODATE THE ROUND DUCT CONNECTION.

M0.1

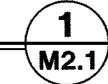




COORDINATE UNIT LOCATION WITH LOCATION OF EQUIPMENT ACCESS PANEL AND WALKING PLATFORM IN ATTIC SHOWN ON A2.1

FLOOR PLAN

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



| UNIT LOCATION "MFR" MODEL NO. CFM (IN. W.G.) HEAT (MBH) VOLT/PH FA | AL DATA OPE | OPER. | | |
|--|------------------------------|-----------------------|-------------------------|-----|
| | N HEATER WI A KW FLA (LBS | OPER. MOUNTING DETAIL | CONTROL DIAGRAM NOTE | ES |
| ATTIC FC4CNF048018E 1600 .30 62.8 208/3¢ 3.4 | | | 2 M6.1 | 2,3 |

NOTES:
1. PROVIDE WITH 2", 30% FILTERS.
2. PROVIDE WITH ACCESSORY HEATER KFCEH340 IF24.

3. THIS UNIT IS HEATING ONLY.

| | | | | | | | F | :AN | IS | CHE | DUL | Æ | | |
|------|----------|--------------------------|------|---------------------|------|-------|----------------------|------|-----|---------|------------------------|--------------------|--------------------|-------|
| UNIT | LOCATION | "MFR" Model No. | CFM | SP (IN, W.G.) | DUTY | STYLE | FAN WHEEL DIA. | RPM | HP | VOLT/PH | OPER. WT. (LBS.) | MOUNTING DETAIL | CONTROL DIAGRAM | NOTES |
| (IEF | ATTIC | "GREENHECK" B9Q 130-3 | 1600 | .375 | E | L | 13 | 1380 | 1/3 | 208/I# | 110 | 3 M5.1 | 3 M6.1 | 1. |

DUTY: S-SUPPLY, R-RETURN, E-EXHAUST
STYLE: BI-BACKWARD INCLINED, FC-FORWARD CURVED, AF-AIRFOIL, RD-RADIAL, TU-TUBULAR, IL-INLINE, VS-VENT SET, VA-VANE AXIAL, TA-TUBE AXIAL, PP-PROPELLAR, RE-ROOF EXHAUST, WE-WALL EXHAUST, CA-CABINET, CE-CEILING
NOTES:

I. PROVIDE WITH HANGING SPRING VIBRATION ISOLATOR KIT.

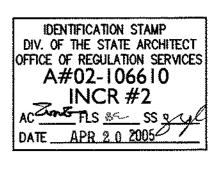


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3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA 95816 Telephone 916 453-1234 Facsimile 916 453-1236





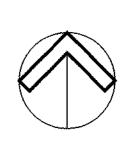


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BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

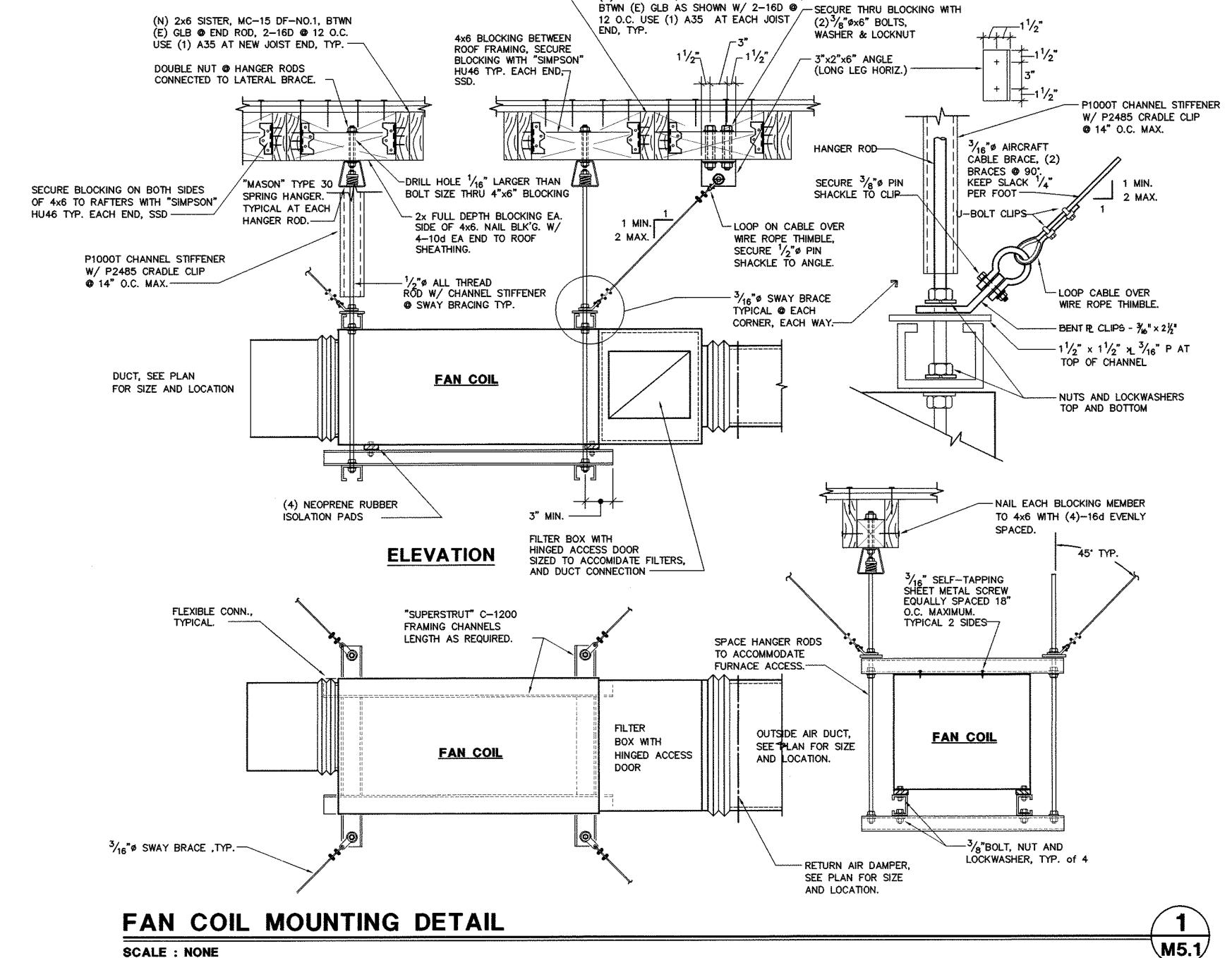
MECHANICAL FLOOR PLAN
MECHANICAL ROOF PLAN AND
SCHEDULES



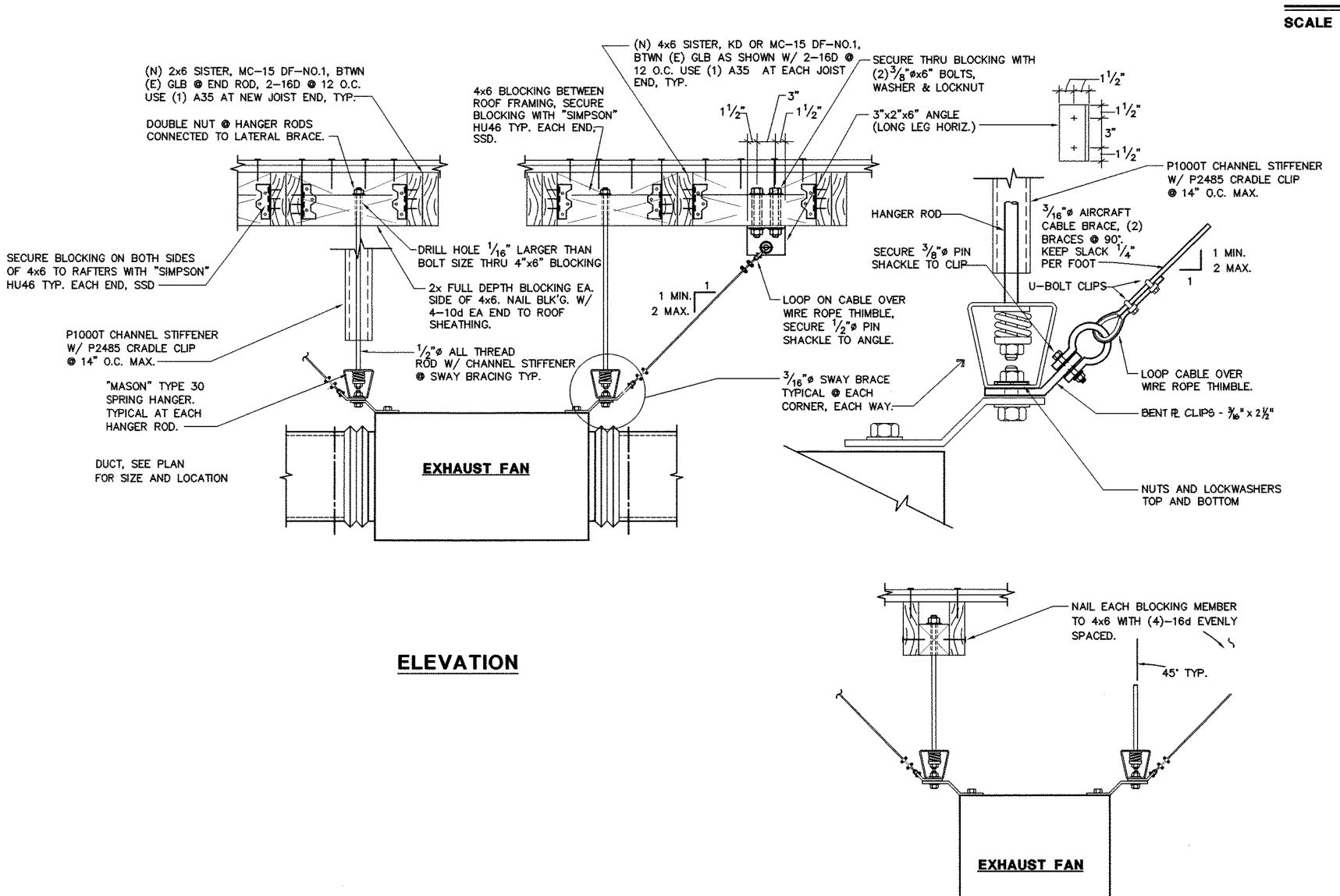
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20 APRIL 2005

A4745.05

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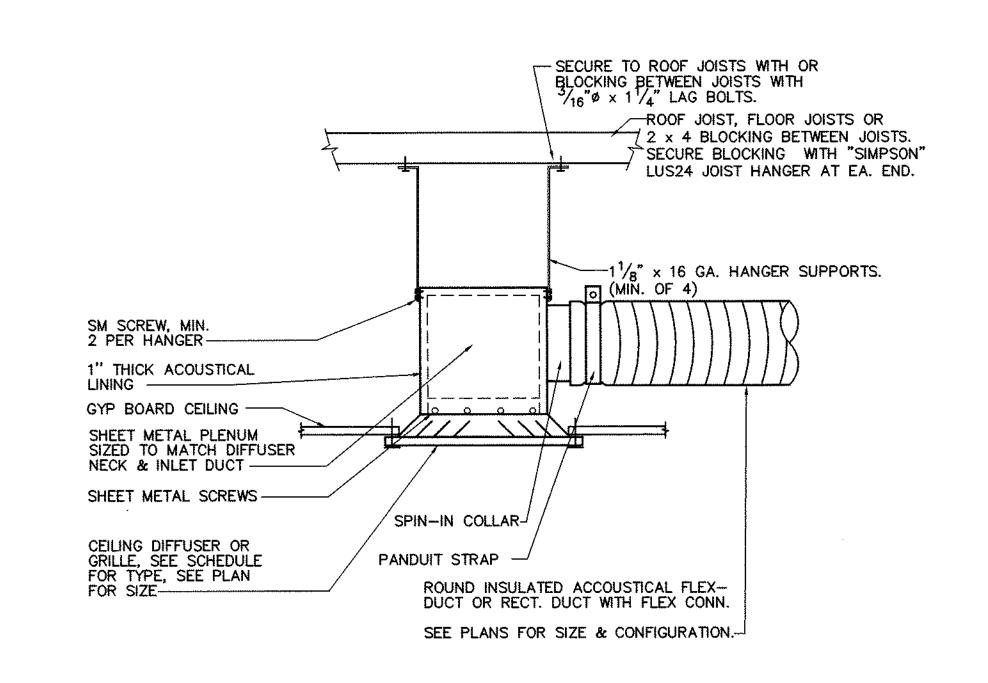


(N) 4x6 SISTER, KD OR MC-15 DF-NO.1,



EXHAUST FAN MOUNTING DETAIL

SCALE : NONE



CEILING DIFFUSER

SCALE: NONE

M5.1

TYPICAL FOR "CD" AND "CE" DIFFUSERS

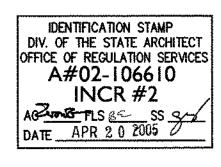


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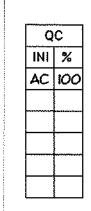


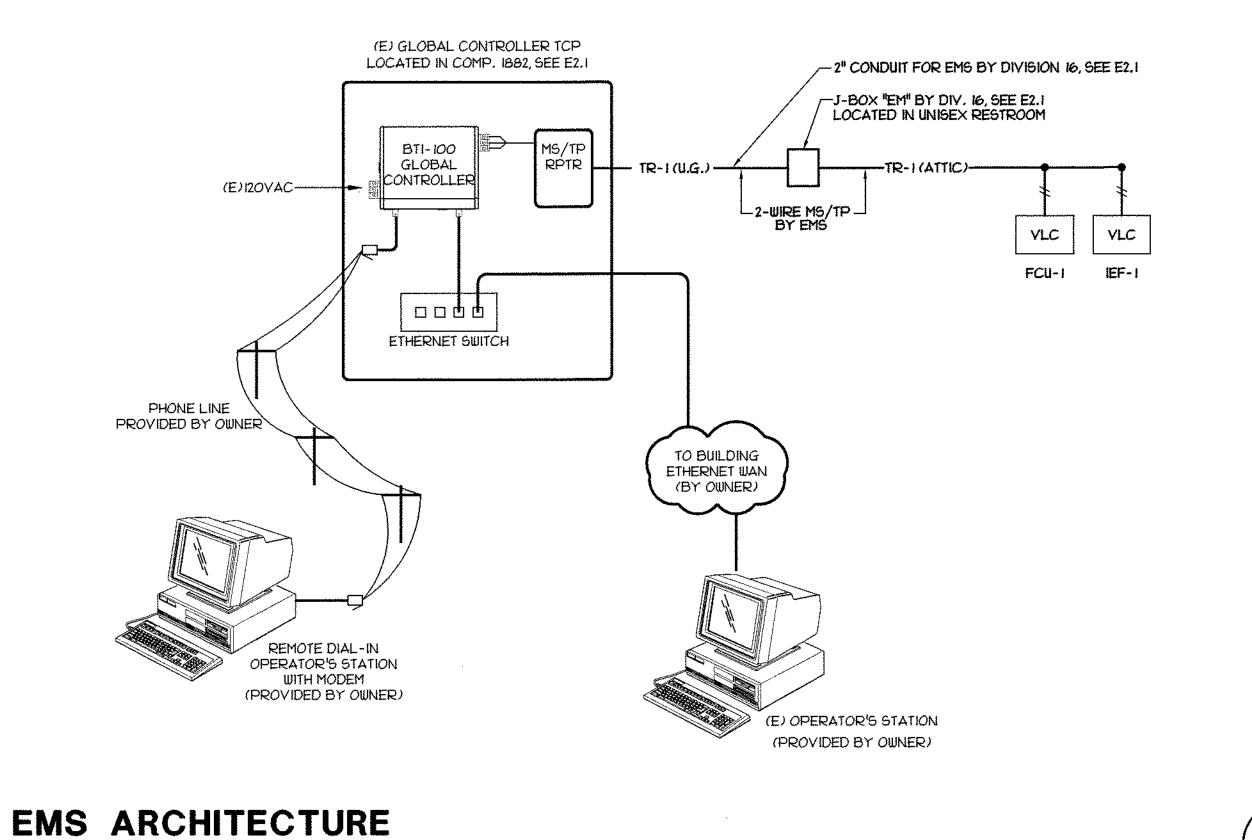
SOLANO COMMUNITY COLLEGE BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600

MECHANICAL DETAILS

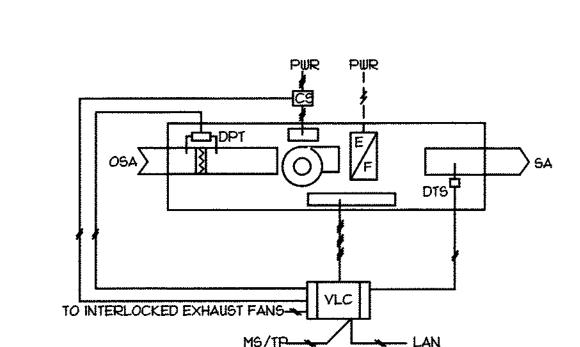
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> > M5.1

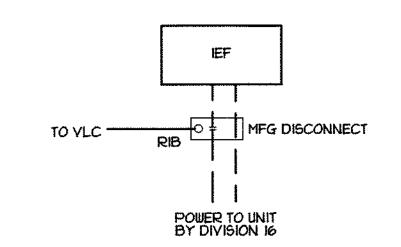




SCALE : NONE



TYPICAL FC UNIT CONTROL DIAGRAM (2) SCALE : NONE



IEF CONTROL DIAGRAM **√M6.1**⁄ SCALE : NONE I. INTERLOCK WITH FC-1 VLC CONTROLLER.



| SYMBOL | DE5CRIF | PTION | | | | | | | | | |
|---------|--|---------------------|--------------|---|--|--|--|--|--|--|--|
| BTI | ALERTO | N BACNET GLOBAL CO | ONTROLLER | | | | | | | | |
| VLC | | | | ER (SIZE AS REQUIRED) | | | | | | | |
| SDVAV | | DUCT VAV/VVT VLC E | | | | | | | | | |
| RTS | · · · · · · · · · · · · · · · · | | | WITH LOCAL AND OUTSIDE AIR POINT AND OVERRIDE FUNCTION | | | | | | | |
| DAS | DUCT 12 FOOT AVERAGING TEMPERATURE SENSOR | | | | | | | | | | |
| DTS | DUCT TE | MPERATURE SENSOR | | | | | | | | | |
| OTS | GLOBAL OUTSIDE AIR TEMPERATURE SENSOR | | | | | | | | | | |
| DA | DIRECT MOUNT MODULATING DAMPER ACTUATOR (SIZE AS REQD) | | | | | | | | | | |
| DAVAV | VAY BOX DIRECT MOUNT DAMPER ACTUATOR CONTROL DAMPER, FACTORY INSTALLED BY EQUIPMENT MANUFACTURER | | | | | | | | | | |
| DMP | | | | | | | | | | | |
| DPT | VERIS DIFFERENTIAL PRESSURE TRANSDUCER - AIR | | | | | | | | | | |
| ENCL-3R | NEMA-3R CONTROL PANEL | | | | | | | | | | |
| RIB | FUNCTIONAL DEVICES RELAY IN A BOX | | | | | | | | | | |
| SD | FIRE MARSHALL APPROVED DUCT SMOKE DETECTOR | | | | | | | | | | |
| AL | RED ALARM LIGHT - KELE MG-RA | | | | | | | | | | |
| PWR | | O EQUIPMENT BY DIV | | | | | | | | | |
| PWR/FA | | R AND FIRE ALARM WI | IRING BY DIV | . 16 | | | | | | | |
| TX | | 24V TRANSFORMER | | | | | | | | | |
| MS/TP | BACNET | NETWORK FOR COMM | UNICATIONS | | | | | | | | |
| | EA | EXHAUST AIR | Al | ANALOG INPUT | | | | | | | |
| | SA | SUPPLY AIR | BI | BINARY INPUT | | | | | | | |
| | RA | RETURN AIR | AO | ANALOG OUTPUT | | | | | | | |
| | OSA | OUTSIDE AIR | BO | BINARY OUTPUT | | | | | | | |
| | WIRING I | BY TEMPERATURE CO | NTROL CONT | RACTOR (TCC) | | | | | | | |
| | WIRING B | Y DIVISION IS ELECT | RICAL CONTR | PACTOR (EC) | | | | | | | |
| | | | | | | | | | | | |
| | | | <i>,lyl</i> | | | | | | | | |

SEQUENCE OF OPERATIONS

PROVIDE A NATIVE BACNET CONTROL SYSTEM BASED UPON THE ASHRAE 2001-135 STANDARD. ALL COMPONENTS SHALL BE COMPLETELY NATIVE BACNET FOR A TRUE OPEN PROTOCOL SYSTEM. BASIS OF DESIGN IS THE ALERTON BACTALK SYSTEM. ALL SYSTEM TEMPERATURES, SETPOINTS AND STATUS' SHALL BE DISPLAYED AND BE ADJUSTABLE FROM THE ALERTON ENVISION FOR BACTALK WINDOWS COMPUTER. WHENEVER A SYSTEM ALARM OCCURS, AN ALARM WINDOW WILL OPEN ON THE ALERTON COMPUTER AND A TEXT MESSAGE WILL BE SENT TO THE OWNER DESIGNATED TELEPHONE NUMBER.

TEMPERATURE CONTROLS CONTRACTOR (TCC) WILL FURNISH ALL LOW VOLTAGE CONTROL WIRING AND CONDUIT FOR ALL HVAC CONTROL DEVICES SHOWN ON DRAWINGS. ALL ROOM SENSORS SHALL BE BACKLIT LCD TYPE DISPLAYING ROOM SETPOINT, ROOM TEMPERATURE, OUTSIDE AIR TEMPERATURE, AND A MOVING FAN ICON TO SHOW ENABLED

FC UNIT CONTROL

FC UNIT CONTROL
DURING PERIODS OF OCCUPANCY THE AC UNIT VLC CONTROLLER WILL ENABLE THE FAN. ON A CALL FOR HEATING
THE VLC CONTROLLER WILL STAGE THE HEATING TO MAINTAIN ROOM HEATING SETPOINT OF 65 DEGREES
(ADJUSTABLE), MOUNT VLC CONTROLLER EITHER INSIDE OF UNIT CONTROL COMPARTMENT OR IN NEMA
ENCLOSURE ON OUTSIDE OF UNIT. PROVIDE FAN CURRENT SENSOR FOR SUPPLY FAN STATUS AND TEMPERATURE
SENSORS AS SHOWN ON CONTROL DRAWINGS.

INTERLOCK SCHEDULE

| FAN | UNIT |
|-------|------|
| IEF-I | FC-I |

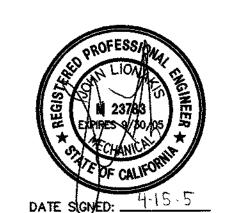


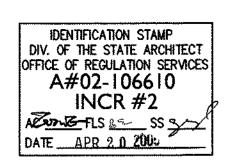
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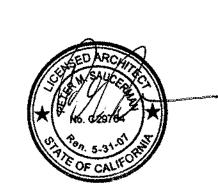
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SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600**

MECHANICAL CONTROLS

> A4745.05 AS NOTED 20 APRIL 2005

M6.1

| | FIXTURE SCHEDULE | | | | | | | | | | | | |
|------------------------------|------------------|-----------------|-----------------------|-----------------|----------------|-----------------|---|---------|--|--|--|--|--|
| FIXTURE | SYMBOL | VENT | WA | STE | COLD | WATER | нст | WATER | | | | | |
| | 011111002 | 72.1 | BRANCH | OUTLET | BRANCH | OUTLET | BRANCH | OUTLET | | | | | |
| WATER CLOSET, (FV) | WC | 2 ¹¹ | 4 ^H | 4 ⁿ | 1½" | j ^{ia} | - | | | | | | |
| URINAL, WALL | UR | 1½" | 2 ^{it} | 2 [#] | j ^a | 34" | | - | | | | | |
| LAVATORY | L. | 1½" | 2" | 1½" | 3 <u>/</u> 4 | 1/2" | 3 4 11 | ½" | | | | | |
| SERVICE SINK, 3 ⁸ | 55 | 2 ⁸ | 3 ¹¹ | 3 ⁸ | 3/4" | 3/4" | 34 H 74 | 3/4" | | | | | |
| DRINKING FOUNTAIN | DF | 1½" | 2" | 1½" | 3½" 74" | 1/211 | fing the state of | - | | | | | |
| FLOOR DRAIN, 2" | FD | 2 [#] | 2 ⁿ | 2 ¹¹ | - | <u></u> | | - | | | | | |
| FLOOR DRAIN, 3" | FD | 2" | 3 ^µ | 3" | - | | | <u></u> | | | | | |
| TRAP PRIMER | ΤP | - | - | - | 1/2" | 1/ II /2 | - | ** | | | | | |

| PL | UMBING EQUIPMENT SCHEDULE | | PLUM | BING LEGEND |
|--------|--|---|---|--|
| SYMBOL | DESCRIPTION | SYMBOL | ABBREVIATION | DESCRIPTION |
| IWH I | INSTANTANEOUS WATER HEATER-1: "CHRONOMITE", MODEL E-46-L INSTANTANEOUS WATER HEATER. MICROPROCESSOR TEMPERATURE CONTROLLED EECTRIC TANKLESS WATER HEATER WITH CELCON WATERWAYS AND STAINLESS STEEL HEATING COILS. HOT WATER STORAGE VESSELS ARE NOT ALLOWED. EACH FAUCET SERVING THE LOW FLOW WATER HEATER SHALL BE EQUIPEND WITH AN OMNI FAUCET FLOW CONTROL. ELECTRICAL DATA: 208V/Iø/60HZ, 4.6 KW, 22 AMPS LOCATION: IWH-I JANITORS, SEE SHEET P2.1. DETAIL: SEE 2/P5.1 INSTANTANEOUS WATER HEATER-2,-3: | ▼ | (NTS) POC (R),(D) (R),(D) S,W (TYP.) VB V UCO WHA | NOT TO SCALE POINT OF CONNECTION RISE, DROP RISER DOWN (ELBOW) RISER UP (ELBOW) RISE OR DROP SOIL, WASTE OR SANITARY SEWER BELOW FLOOR TYPICAL VALVE IN RISER (TYPE AS INDICATED OR NOTED) VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS REQUIRED FOR VALVE TYPE USED) VENT PIPING VENT, VENT RISER, VENT THRU ROOF WALL CLEANOUT WATER HAMMER ARRESTER |
| 2,3 | "CHRONOMITE", MODEL E-70-L. INSTANTANEOUS WATER HEATER. MICROPROCESSOR TEMPERATURE CONTROLLED EETCET TANKLESS WATER HEATER WITH CELCON WATERWAYS AND STAINLESS STEEL HEATING COILS. HOT WATER STORAGE VESSELS ARE NOT ALLOWED. EACH FAILCET SERVING THE LOW FLOW WATER HEATER SHALL BE EQUIPEND WITH AN OWNI FAUCET FLOW CONTROL. ELECTRICAL DATA: 208V/10/60HZ, 1.0 KW, 34 AMPS LOCATION: WH-2 MEN'S, SEE SHEET P2.1. WH-3 WOMEN'S, SEE SHEET P2.1. DETAIL: SEE 2/P5.1 | FU PO | (AB.C.) (AFF.) (AFG.) (AF),(BF) COP CCC CQ (E) FCQ FD GCQ HD HD HD | ABOVE CEILING ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ABOVE FLOOR, BELOW FLOOR BRANCH - TOP CONNECTION BRANCH - BOTTOM CONNECTION BRANCH - SIDE CONNECTION CAP ON END OF PIPE COLD WATER CONDENSATE DRAIN LINE CLEANOUT DEGREES FAHRENHEIT EXISTING TO BE REMOVED FIXTURE UNIT FLOOR CLEANOUT FLOOR DRAIN FLUSH VALVE, FLUSH TANK FROM ABOVE, TO ABOVE FROM BELOW, TO BELOW GAS - LOW PRESSURE GAS - HIGH PRESSURE GATE VALVE GALLONS PER MINUTE GRADE CLEANOUT HOSE BIBB HOT WATER PIPING |

| | PLUMBING SHEET INDEX |
|-----------|--|
| SHEET No. | DESCRIPTION |
| P0.1 | PLUMBING LEGEND, SCHEDULE & NOTES |
| P2.1 | PLUMBING FLOOR PLAN AND PLUMBING ROOF PLAN |
| P5.1 | PLUMBING DETAILS |
| F3.1 | FLORIDING DETAILS |
| | |
| | · · |
| | 1 |

PLUMBING GENERAL NOTES

- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLING PIPING AND ASSOCIATED ITEMS.
- KEEP YTR'S A MINIMUM OF 10 FEET FROM AIR INTAKES AND 4 FEET MINIMUM FROM OUTSIDE
- 3. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
- 4. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- 5. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.
- 6. ALL VALVES SHALL BE LINE SIZE.
- PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
- 8. ALL FLOOR DRAINS LOCATED IN CERAMIC TILE SHALL HAVE A SQUARE TOP.
- 9. CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT. ANCHORS SHALL BE TESTED PER IR 19-1 AND ICBO REPORT ER-4627 FOR KWIK BOLT-II AND POST KWIK BOLT-II CONCRETE ANCHORS.
- IO. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING
- II. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC.
- 12. PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.
- 13. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT. 14. DOMESTIC HOT WATER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH

ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS TO WITHSTAND 0.29 LATERAL AND VERTICAL

IS CONDENSATE DRAIN LINE CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND CLEANOUTS AT ALL OFFSETS.

| | | · · · · · · · · · · · · · · · · · · · | | | | , | | | | | | | |
|-------------------|-----------|--|--|--|--|---|----------|--------|--------------|-------------------------------|---------------|--------|--------|
| | | | | PLUMBING F | IXTURE SCHEDULE | | | | | | | | |
| ADA | SYMBOL | FIXTURE | FIXTURE MANUFACTURED AND MODEL NO | FAUCET OR VALVE | TRIM | REMARKS | VENT | WA | STE | COLD | WATER | нот \ | |
| | | | MANUFACTURER AND MODEL No. | MANUFACTURER AND MODEL No. | MANUFACTURER AND MODEL No. | | | BRANCH | OUTLET | BRANCH | OUTLET | BRANCH | OUTLET |
| | WC-1 | WATER CLOSET FLOOR MOUNTED FLUSH VALVE STANDARD | "AMERICAN STANDARD" MADERA EL 1.6, NO. 2234.015 FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 14-1/8" RIM HEIGHT. | "SLOAN" ROYAL 111, ADA COMPLIANT, 1.6 GPF. OR "ZURN" Z-6000AV-WS1. | SEAT: "OLSONITE" MODEL 10CC-SS. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. | WHERE USED FOR ADA ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE. | 2" | 4* | 4" | 1 1/4" | 1" | ••• | |
| (C) (A) | WC-2 | WATER CLOSET FLOOR MOUNTED FLUSH VALVE ADA | "AMERICAN STANDARD" MADERA EL 1.6, NO. 2305.100 FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-1/8" RIM HEIGHT. | "SLOAN" ROYAL 111, ADA COMPLIANT, 1.6 GPF. OR "ZURN" Z-6000AV-WS1. | SEAT: "OLSONITE" MODEL 10CC—SS. PROVIDE WITH SELF— SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. | WHERE USED FOR ADA ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE. | 2" | 4" | 4" | 1 1/4" | 1 ** | | |
| & | UR-1 | URINAL WALL MOUNTED FLUSH VALVE ADA | "AMERICAN STANDARD" ALLBROOK NO. 6541.132 WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET | "SLOAN" ROYAL 186-1, OR "ZURN" Z-6003AV-WS1. ADA COMPLIANT, 1.0 GPF. | CARRIER: "J.R. SMITH" 637 SERIES | MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. | 1 1/2" | 2* | 2* | 1" | 3/4" | | Alphi |
| & | L-1 | LAVATORY WALL MOUNTED HOT AND COLD WATER STANDARD/ADA | "AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, WITH SOAP DEPRESSION, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL. | "SYMMONS SCOT" S-60-H-IPS FAUCET, LEVER HANDLE WITH PUSH-BUTTON. AERATOR WITH 1.0 GPM FLOW RESTRICTOR, VANDAL RESISTANT, IPS CONNECTIONS, ADA COMPLIANT. SET MAXIMUM WATER TEMPERATURE STOPS TO RESTRICT WATER TEMPERATURE TO 110° F. | ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. | MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION. | | 2" | 11/2* | ³ / ₄ " | 1/2" | 3/4" | 1/2" |
| ° | SS-1 | SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER JANITORS | "WILLIAMS" SBC-1700 CARLOW CORNER, SERVICE SINK, 24"x24"x12" W/ 6" DROP FRONT & SS CAP, CAST BRASS DRAIN W/ SS STRAINER. | "WILLIAMS" T-15-VB FAUCET WITH POLISHED CHROME FINISH, VACUUM BREAKER AND ADJUSTABLE TOP BRACE, T-35 HOSE AND WALL BRACKET AND T-40 STAINLESS STEEL MOP HANGER, WITH 3 SPRING LOADED RUBBER GRIPS, BP SPLASH CATCHER PANELS 20 GA. TYPE 304 SS | | MOUNT AT HEIGHT INDICATED ON AS PART OF ROUGH—IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. | 2" | 3" | 3" | 3/4" | 3/4" | 3/4" | 3/4" |
| ⊕ & | DF-1 | DRINKING FOUNTAIN PEDESTAL ADA/STANDARD | "HAWS" 3377FR PEDESTAL DRINKING FOUNTAIN, BARRIER-FREE, WITH 18-GA. TYPE 304, NO. 4 SATIN FINISH STAINLESS STEEL RECEPTOR AND BRACKET AND GALV. STEEL PEDESTAL PROVIDE HAWS STANDARD FASHION PLATE COLORS TO TO ARCHITECT FOR COLOR SELECTION. | INTEGRAL | WITH P-TRAP | INSTALL PER MANUFACTURES RECOMMENDATIONS | •••• | - | | 3/4" | 1/2" | | |
| | TP | TRAP PRIMER | "MIFAB" MODEL M-500 SERIES | PROVIDE BALL VALVE AT EACH TP LOCATION. | MOUNT TRAP PRIMER IN SHEET METAL BOX WITH "KARP" OR EQUAL ACCESS DOOR. | INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. | - | - | | 1/2" | | *** | |
| | FD | FLOOR DRAIN | "ZURN" MODEL Z-415 | | TYPE "B" STRAINER FOR EXPOSED CONCRETE TYPE "S" STRAINER FOR TILE FLOOR TYPE "SL STRAINER FOR COMPOSITION FLOOR | PROVIDE FLASHING RING AND CLAMP AT FLOORS WITH WATER RESISTANT MEMBRANE. SET TOP OF DRAIN SLIGHTLY BELOW FLOOR TO INSURE DRAINAGE. INSTALL VENTED P-TRAP. WHERE TRAP PRIMERS ARE INDICATED PROVIDE PROPER CONNECTION TO P-TRAP. | 2" | 2" | 2" | | | | |
| | <u>wн</u> | WALL HYDRANT | "ACORN", MODEL 8151 SINGLE TEMPERATURE W/ VACUUM BREAKER, STAINLESS WALL BOX WITH WALL FLANGE AND KEY LOCK DOOR. | | | | <u>-</u> | - | - | 3y# 74 | 3 <u>/</u> 11 | • | + |



ARCHITECTS

3540 FOLSON BOULEVARD SACRAMENTO, CALIFORNIA

TELEPHONE 916 453-1234 FACSINILE 916 453-1236





IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
A#02-106610 INCR #2

APP 2 0 2005

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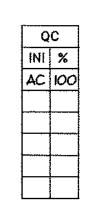


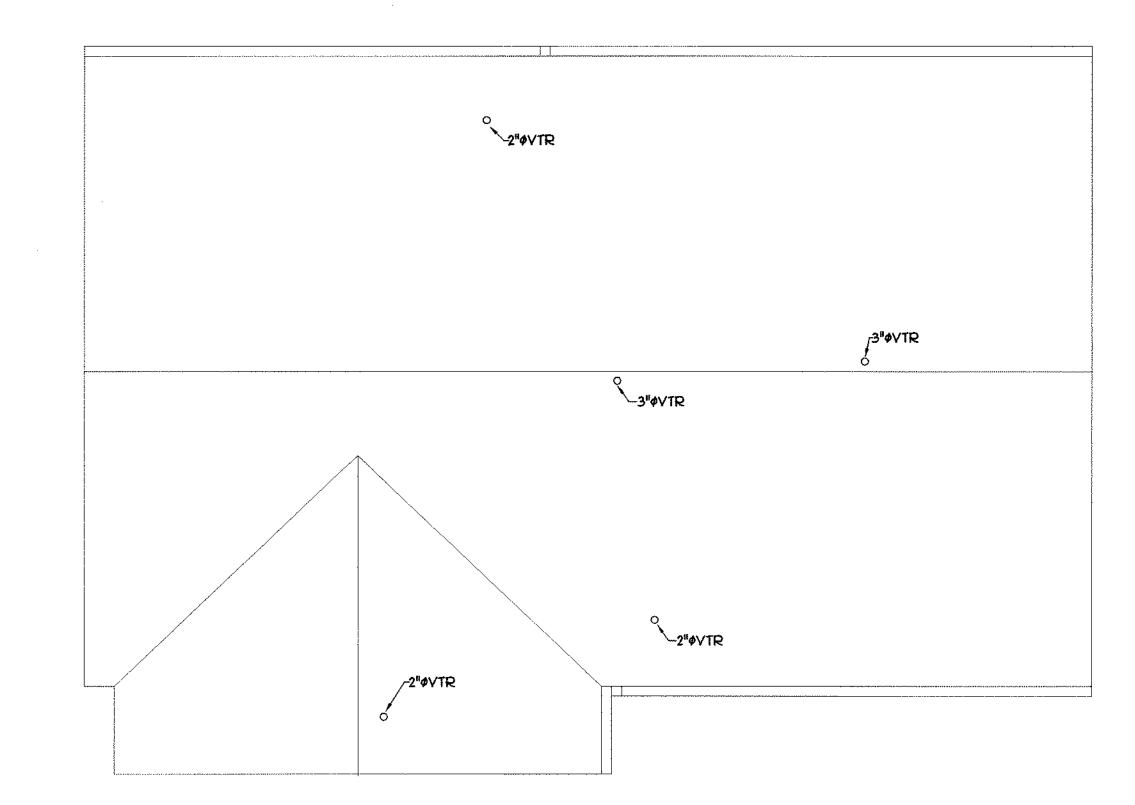
SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600**

PLUMBING LEGEND, **SCHEDULES AND** NOTES

> A4745.05 NONE 20 APRIL 2005

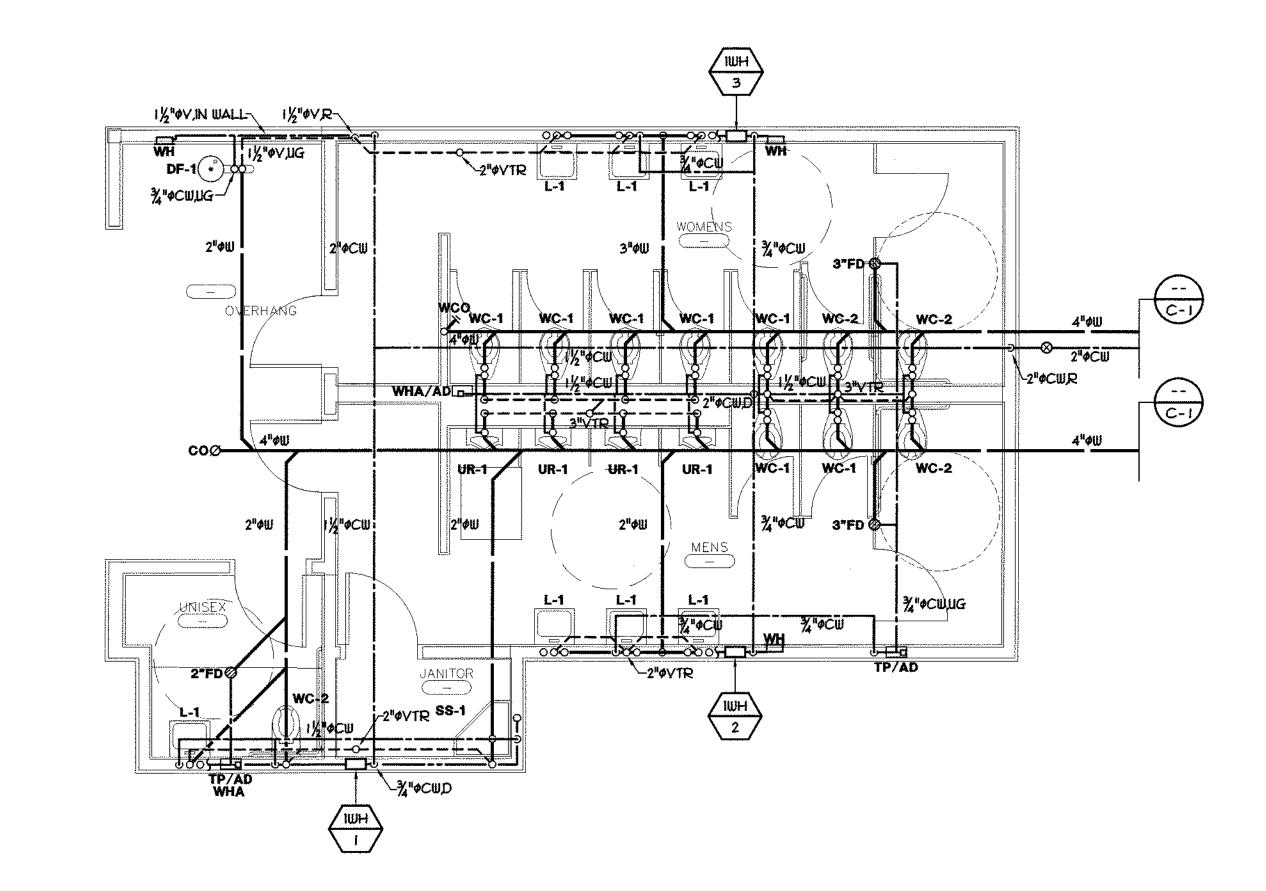
P0.1





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

M2.1



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

M2.1



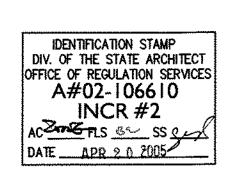
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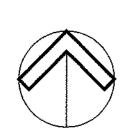


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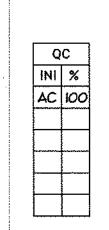
SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

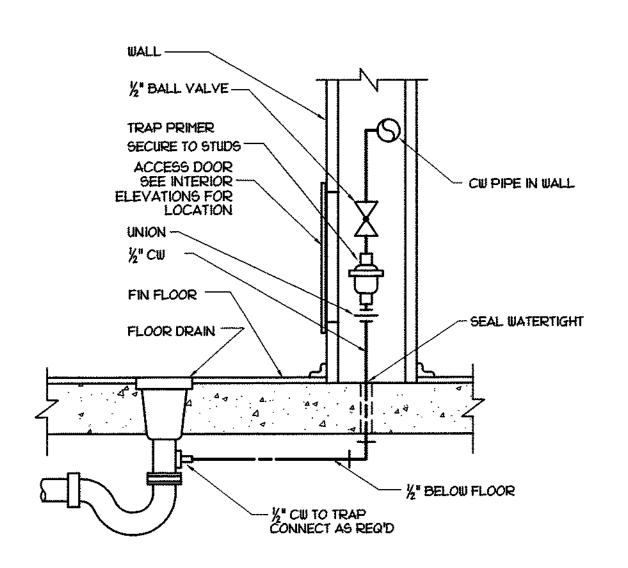
PLUMBING FLOOR PLAN AND PLUMBING ROOF PLAN



A4745.05 AS NOTED 20 APRIL 2005

P) |





INSTANTANEOUS WATER HEATER DETAIL 2
SCALE: NONE
P5.1

TRAP PRIMER TO FLOOR DRAIN

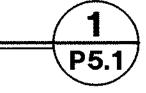
½" HW (105°) WITH STOP VALVE ─

TO OTHER DEVICES -

CONNECT TO — WATER HEATER WITH ¼" NPT

ACCESS DOOR SEE INTERIOR ELEVATIONS FOR LOCATION

SCALE : NONE



_ LAVATORY

一光" CW INLET WITH 3 WAY STOP VALVE

/-J-BOX (BY ELECT.)

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DATE APR 2 0 2005

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SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

PLUMBING DETAILS

A4745.05 AS NOTED 20 APRIL 2005

P5.1

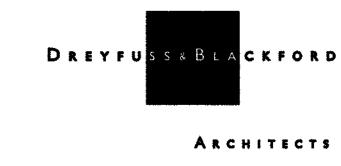
ELECTRICAL SYMBOL LIST FIRE ALARM HORN AND STROBE +80" A.F.F. LUMINAIRE - CEILING SURFACE OR PENDANT MOUNTED. (LETTER "a" DENOTES SWITCH FUNCTION, NUMBER "2" DENOTES CIRCUIT NUMBER - TYPICAL FOR ALL LUMINAIRES FO FIRE ALARM BELL +90" A.F.F. UNLESS NOTED OTHERWISE) LUMINAIRE - WALL MOUNTED FIRE ALARM BELL OR CHIME AND STROBE +80" A.F.F. LUMINAIRE - CEILING RECESSED FIRE ALARM STROBE +80" A.F.F. WALL MOUNTED EXIT LUMINAIRE, ARROW SIGNIFIES DIRECTION, TYPICAL FIRE ALARM IONIZATION DETECTOR - CEILING MOUNTED WALL MOUNTED LOW LEVEL EXIT LUMINAIRE MOUNTED ADJACENT TO DOOR, WITH FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED CLOSEST EDGE OF SIGN MOUNTED WITHIN 4 INCHES OF DOOR FRAME, BOTTOM OF SIGN SHALL BE MOUNTED NOT LESS THAN 6 INCHES, OR MORE THAN 8 INCHES ABOVE HD FIRE ALARM HEAT DETECTOR - CEILING MOUNTED FINISHED FLOOR FIRE ALARM MECHANICAL DUCT DETECTOR - COORDINATE LOCATION WITH HVAC CEILING OR PENDANT MOUNTED EXIT LUMINAIRE, ARROW SIGNIFIES DIRECTION, DRAWINGS AND CONTRACTOR FIRE/SMOKE DAMPER PROVIDED BY OTHER DIVISION, CONNECTION BY ELECTRICAL CEILING OR PENDANT MOUNTED EXIT LUMINAIRE SEE MECHANICAL PLANS EMERGENCY ENCLOSED LUMINAIRE FIRE DAMPER PROVIDED BY OTHER DIVISION, CONNECTION BY ELECTRICAL SEE MECHANICAL PLANS EXISTING FLUORESCENT LUMINAIRE TO REMAIN EOL F LINE RESISTOR LUMINAIRE DESIGNATION WITH LAMP QUANTITY AND WATTAGE. SEE LUMINAIRE 2/32 SCHEDULE FACP MASTER FIRE ALARM CONTROL PANEL SINGLE POLE TOGGLE SWITCH, +48" A.F.F. - "a" LETTER DENOTES SWITCH FUNCTION -FIRE ALARM REMOTE ANNUNCIATOR PANEL - FLUSH MOUNTED TYPICAL FOR ALL SWITCHES UNLESS NOTED OTHERWISE DOUBLE POLE TOGGLE SWITCH QUANTITY OF MIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND THREE-WAY TOGGLE SWITCH WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2#12 AMG AND | #12 GREEN GROUND IN 1/2" CONDUIT, TYPICAL FOR ALL SINGLE POLE TOGGLE SWITCH - KEYED SWITCH WITH PILOT LIGHT - - CONDUIT RUN UNDERFLOOR OR UNDERGROUND DIMMER SWITCH - SIZE AS NOTED ON PLAN LPTI UNDEFLOOR DUCT SYSTEM - "P" INDICATES POWER, "T" INDICATES TELEPHONE, "J" OCCUPANCY SENSOR SMITCH MITH MANUAL OVERRIDE - WALL MOUNTED AT +48" INDICATES UNDERFLOOR JUNCTION BOX A.F.F. UNLESS NOTED OTHERWISE CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET BY-LEVEL OCCUPANCY SENSOR SMITCH WITH 2 MANUAL OVERRIDE SMITCHES - WALL MOUNTED AT +48" A.F.F. UNLESS NOTED OTHERWISE -----ONDUIT TURNED AND RISED UP CONDUIT TURNED AND DROPPED DOWN OCCUPANCY AREA SENSOR SWITCH - CEILING MOUNTED ---EM--- EMERGENCY POWER WIRE AND CONDUIT RUN OCCUPANCY SENSOR SWITCH POWER PACK AND OUTLET BOX - MOUNTED IN ACCESSIBLE CEILING AREA, UNLESS NOTED OTHERWISE — J — J-HOOK SUPPORT SYSTEM FOR SIGNAL CABLING JUNCTION BOX - SIZE AS REQUIRED BY CODE -LV- LOW VOLTAGE WIRE AND CONDUIT RUN JUNCTION BOX - FLUSH FLOOR MOUNTED - SIZE AS REQUIRED BY CODE — — — EXISTING CONDUIT AND WIRING SINGLE CONVENIENCE OUTLET * * * EXISTING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. TYPICAL FOR ALL COORDINATE WITH OWNER. CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (LETTER "A" SHOWN ADJACENT TO PANELBOARD - SURFACE MOUNTED OUTLET DESIGNATES MOUNTED HORIZONTALLY ABOVE COUNTER) PANELBOARD - FLUSH MOUNTED ISOLATED GROUND CONVENIENCE OUTLET - NEMA 5-20R TERMINAL CABINET QUADRUPLEX CONVENIENCE OUTLET - NEMA 5-20R SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER ISOLATED GROUND QUADRUPLEX CONVENIENCE OUTLET - NEMA 5-20R EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, FUSED WITH FUSE SIZE ONE DUPLEX CONVENIENCE OUTLET AND ONE ISOLATED GROUND DUPLEX CONVENIENCE OUTLETS - NEMA 5-20R EQUIPMENT DISCONNECT SMITCH - EXTERNALLY OPERATED, NON-FUSIBLE SPECIAL RECEPTACLE AS SHOWN ON PLANS EQUIPMENT CIRCUIT BREAKER DISCONNECT- EXTERNALLY OPERATED, NON-FUSIBLE TELEPHONE OUTLET - FLUSH IN WALL +18" A.F.F. STUB ONE 3/4" CONDUIT WITH BUSHING AT THE END AND PULL STRING INTO ACCESSIBLE CEILING AREA. EQUIPMENT CONTROLLER WALL TELEPHONE OUTLET - FLUSH IN WALL, +48" A.F.F., STUB ONE 3/4" CONDUIT WITH BUSHING AND PULL STRING INTO ACCESSIBLE CEILING AREA. EQUIPMENT MOTOR POWER CONNECTIONS PART OF ELECTRICAL WORK COMBINATION TEL/DATA OUTLET FLUSH IN WALL +18" A.F.F., 4-11/16" SQUARE BOX WITH 2 DEVICE RING AND PLATE (TOP HALF DEVICE FOR TELEPHONE; BOTTOM HALF DEVICE MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS FOR DATA). STUB ONE I" CONDUIT WITH BUSHING AT THE END OF CONDUIT AND A PULL STRING INTO ACCESSIBLE CEILING AREA. DATA OUTLET - FLUSH IN WALL +18" A.F.F. (2) NUMBER IN PARENTHESIS INDICATES NUMBER OF DATA JACKS. STUB ONE I" CONDUIT WITH BUSHING AT THE END AND PULL ---2 --- 2 HOUR FIRE WALL SEPARATION STRING INTO ACCESSIBLE CEILING AREA. ROOM NUMBER DESIGNATION DATA OUTLET - FLUSH IN FLOOR, STUB ONE I" CONDUIT WITH BUSHING AT THE END AND PULL STRING INTO ACCESSIBLE CEILING AREA. DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON OUTDOOR ELECTRONIC PHOTO CELL, ROOF/FASCIA MOUNTED FACING NORTH. DRAWING PLAN OR DETAIL DESIGNATION - "I" OR "A" DENOTES PLAN OR DETAIL FIRE ALARM MANUAL PULL STATION, +48" A.F.F. UNLESS NOTED OTHERWISE (LETTER E-I NUMBER, "E-I" DENOTES SHEET NUMBER "Z-I" DENOTES ZONE NUMBER - TYPICAL FOR ALL FIRE ALARM DEVICES) FIRE ALARM HORN, +90" A.F.F. UNLESS NOTED OTHERWISE

SYMBOL LIST NOTES:

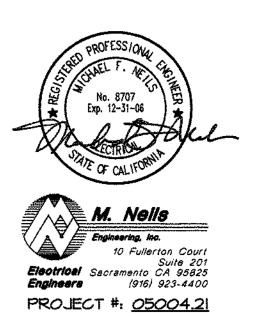
- I. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
- 2. ELECTRICAL OUTLET BOXES MOUNTED ON OPPOSITE SIDES OF FIRE-RATED WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES PER CBC 2001, WHETHER SHOWN ON THE PLANS OR NOT.
- 3. VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO THE PANELBOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.

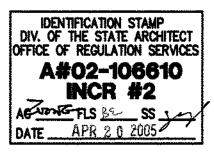
| A | AMPERES | MAX. | MAXIMUM WAIN DISTRIBUTION EDAME |
|--------------|--|--------------|---|
| AC A E E | ALTERNATING CURRENT | MDF | MAIN DISTRIBUTION FRAME |
| A.F.F. | ABOVE FINISHED FLOOR | MFR, | MANUFACTURER |
| A.I.C. | AMPERE INTERRUPTING CAPACITY | MH | METAL HALIDE |
| AMP | AMPERE APPROXIMATE | MOG. | MOGUL BASE |
| AMG | AMERICAN WIRE GAUGE | MTD. | MOUNTED |
| BKR | BREAKER | (N) | NEM |
| | | NA | NOT AVAILABLE, NOT APPLICABL |
| C. | CONDUIT | NC | NORMALLY CLOSED |
| C.B. | CIRCUIT BREAKER | N.C. | NURSES CALL |
| CKT | CIRCUIT | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| CLF | CURRENT LIMITING FUSE | NIEG | |
| C.O. (CR) | CONDUIT ONLY, WITH PULL WIRE EMERGENCY - CRITICAL BRANCH | N.I.E.S. | NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECIFICATIONS |
| C.T. | OF POWER CURRENT TRANSFORMER | NL. | NIGHT LIGHT |
| DC DC | DIRECT CURRENT | NM | NON-METALLIC CABLE |
| DPST | DOUBLE POLE, SINGLE THROW | NO | NORMALLY OPEN |
| (E) | EXISTING | (NR) | NORMAL - BRANCH OF POWER |
| EL | EVENING LIGHT | | |
| (EQ) | EMERGENCY - EQUIPMENT BRANCH | 00 | ON CENTER |
| (20) | OF POWER | ОН | OVERHEAD |
| EM | EMERGENCY | 0150 | OIL INSULATED, SELF-COOLED |
| (ER) | EXISTING RELOCATED | PFB | PROVISIONS FOR FUTURE CIRCUIT |
| EMT | ELECTRICAL METALLIC CONDUIT | | BREAKER |
| FACP | FIRE ALARM CONTROL PANEL | PH | PHASE |
| FATC | FIRE ALARM TERMINAL CABINET | PVC | POLYVINYL CHLORIDE |
| F.C. | FOOTCANDLES | aty | QUANTITY |
| GA. | GAUGE | (R) | REMOVE |
| GALY. | GALVANIZED | REQ'D | REQUIRED |
| GND | GROUND | (RE) | RELOCATE EXISTING |
| GFI | GROUND FAULT INTERRUPTER | RCPT. | RECEPTACLE |
| HID | HIGH INTENSITY DISCHARGE | RS | RAPID START |
| HP | HORSEPOWER | SCHED | SCHEDULE |
| HPF | HIGH POWER FACTOR | S.F. | SQUARE FOOT |
| HPS HTR. | HIGH PRESSURE SODIUM HEATER | sa. | SQUARE |
| HVAC | HEATING, VENTILATING AND | SPDT | SINGLE POLE, DOUBLE THROW |
| . 1 ¥ /~(U | AIR CONDITIONING | SPST | SINGLE POLE, SINGLE THROW |
| HZ. | HERTZ (CYCLES) | SWBD | SMITCHBOARD |
| 1.0. | INTERRUPTING CAPACITY | SYS | SYSTEM |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | THW | INSULATED STRAND WIRE |
| IMC | INTERMEDIATE METAL CONDUIT | THHN | NYLON JACKETED WIRE |
| INCAN. | INCANDESCENT | TV | TELEVISION |
| sc | SHORT CIRCUIT AMPERES | TVSS | TRANSIENT VOLTAGE SURGE |
| K | THOUSAND | 1 Y DD | SUPPRESSION |
| KV | KILO VOLT | UG | UNDERGROUND |
| KVA | KILO VOLT AMPERE | UGPS | UNDERGROUND PULL SECTION |
| KM | KILO WATT | UL | UNDERWRITERS LABORATORY |
| KMH | KILO WATT HOUR | v | VOLT |
| L.L.D. | LAMP LUMEN DEPRECIATION | VA | VOLT-AMPERES |
| LM | LUMEN | | |
| LPF | LOW POWER FACTOR | N | WIRE, WATT |
| LT. | LIGHT | MP | WEATHER PROTECTED |
| (LS) | EMERGENCY - LIFE SAFETY BRANCH OF POWER | XFMR XHHW | TRANSFORMER CROSS-LINKED POLYETHYLENE |
| 1.7 | LOW VOLTAGE | 7 M B B Y | WIRE INSULATED |
| LY | 2011 10211 102 | ł. | |

| | | ELECTRICAL SHEET INDEX |
|---|----------------|---|
| No. OF SHEETS | DRAMING No. | DRAWING DESCRIPTIONS |
| l | EO.I | ELECTRICAL SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES |
| 2 | El.I | SITE PLAN - ELECTRICAL, ONE LINE POWER DIAGRAM AND PANEL SCHEDULE |
| 3 | E2.l | FLOOR PLANS - LIGHTING AND POWER |
| 4 | E3.I | FLOOR PLAN - FIRE ALARM AND RISER DIAGRAM |
| 5 | E3.2 | FIRE ALARM SCHEDULE, NOTES, DETAILS AND CALCULATIONS |
| 6 | E4.I | ELECTRICAL DETAILS |
| 7 | T-24 | TITLE 24 - LIGHTING COMPLIANCE FORMS |
| | | |
| *************************************** | | |
| | | |



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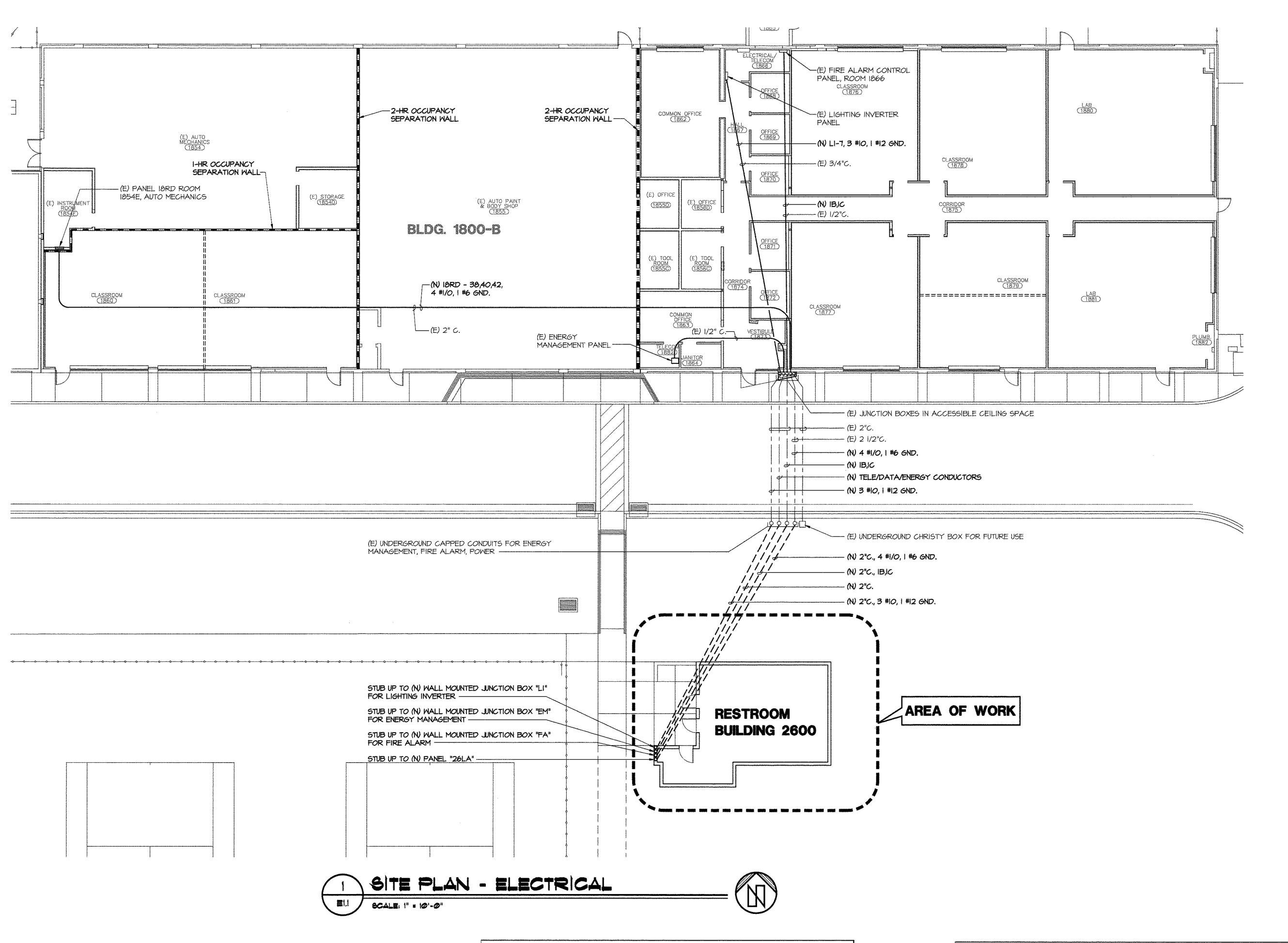


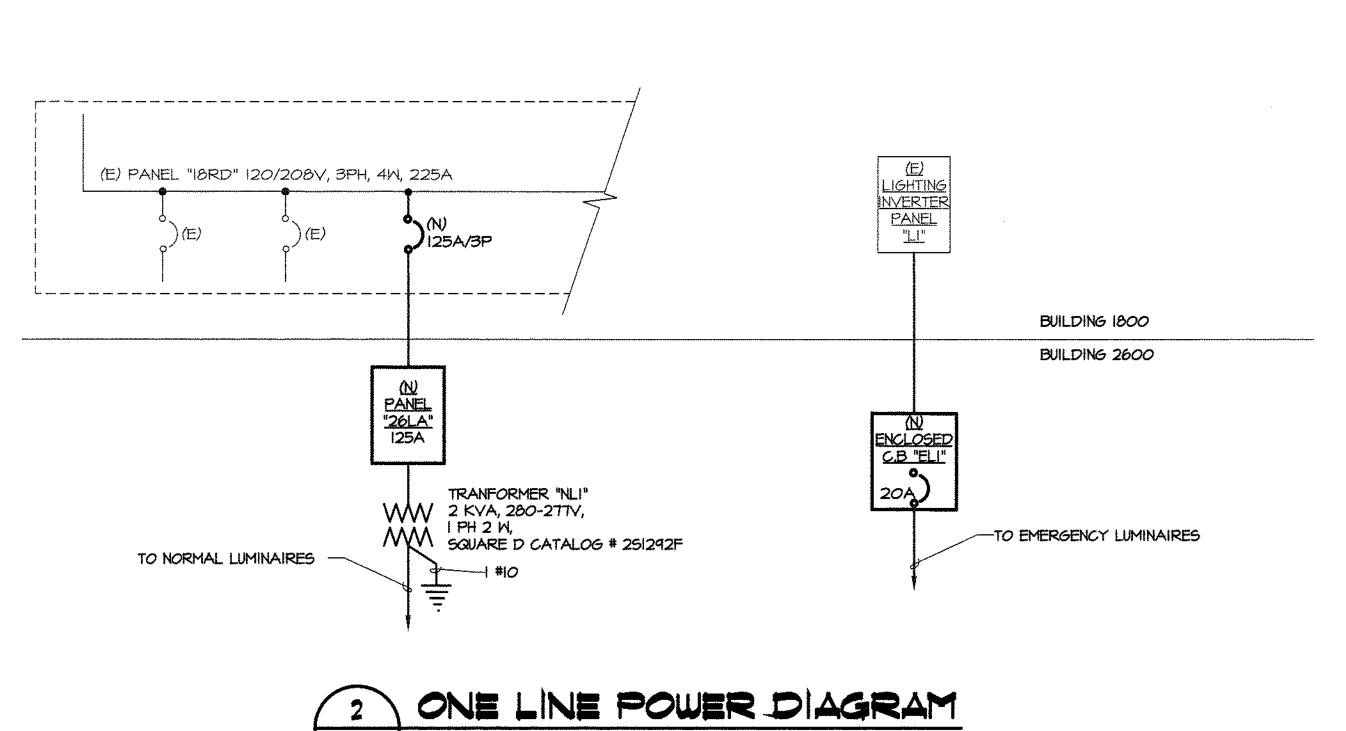
SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

ELECTRICAL SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES

> A4745.05 AS NOTED 20 APRIL 2005

> > **E0.1**





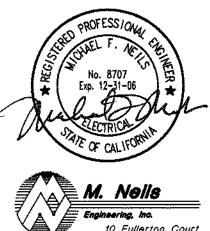
| ELI | SCALE: NONE | LINALABALINAE SVI-IOTRA OTRAIO ALMANTASTIANI-VIRIA OFFICIALIS ENTRAINE ALMADO |
|--|--|---|
| 2 | one line power d | IAGRAM |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | TRANFORMER "NLI" V 2 KVA, 280-277V, I PH 2 W, SQUARE D CATALOG # 251292F HIO | TO EMERGENCY LUMINAII |

| TYPE: E | | MAIN | | | | 1 | | | | - |
|---|---|--|---|----|----------------------|------|--|---|--|--|
| | 1 BUS: 225 | | I . | | 8Y/120 V0 4 WIRES | ,T_K | | JNTING: RFACE | REMARKS: 22k AIC MIN | I. SYMM |
| LOAD S | ERVED | kvA | СВ | СТ | PHASE | ст | СВ | kv∆ | LOAD | SERVED |
| E) RECEPTA | | 0.2 | 20/1 | | A | 2 | 20/1 | 0.2 | (E) RECEPT | |
| E) RECEPTA | | 0.4 | 20/1 | 3 | В | 4 | 20/1 | 0.2 | (E) RECEPT | |
| E) RECEPTA | *************************************** | 0.2 | 20/1 | 5 | T c | 6 | 20/1 | 8.2 | (E) RECEPT | |
| E) RECEPTA | en este et fait ist in in a man in aler teath i rabble. | 0.2 | 20/1 | 7 | А | 8 | 20/1 | 0.5 | (E) RECEPT | *************************************** |
| E) RECEPTA | di rahedaalehi labita indaa 1644a bada birmin | 0.5 | 20/1 | 9 | В | 10 | 20/1 | 0.4 | (E) RECEPT | *************************************** |
| E) RECEPTA | وبد كمراسونا وقربة عصدوية بالمرهوب برماية والراقية المارة والمارة والمارة والمارة والماري | 0.5 | 20/1 | 11 | C | 12 | 20/1 | | | ************************************** |
| E) RECEPTA | | 1.1 | 20/1 | 13 | A | 14 | 20/1 | 1.1 | (E) RECEPT | ACLES |
| E) RECEPTA | | 1.1 | 20/1 | 15 | В | 16 | 20/1 | 1.1 | (E) RECEPT | |
| 41,000,000 pp. p. n. n. 120 n. 11 120 n. n. n. 11 120 n. | RECEPTACLES | | 20/1 | 17 | C | 18 | 20/1 | 0.9 | (E) RECEPT | es neces i anni e de participa de la company |
| والمراسية والمحاد المحاد ومانية ومناه ومانية والمحادة المحادة المحادة المحادة والمحادة المحادة المحادة المحادة | 1899 háddyn o mig (9918 899) 1989 ha ndaw i ndwii i 1888 i 1 | LUMA LUMA mysla marks b. Henda i Haddi biylesi i Ubd | 20/1 | 19 | A | 20 | 20/1 | fill Sant I sadde i llidde e graden engae e ndeue e saese e | of pieces interest that terreconsers we | er ene ra ikuntanin nerkera na zaran erkerankil ki |
| E) RECEPTA | CLES | 0.7 | 20/1 | 21 | В | 22 | 20/1 | *************************************** | <u> </u> | |
| گۇ ياڭ چانلىقى (دار سېنىڭ دا سۇشۇپ داسلىكىك ئايىنىڭ (دار كالىكى دار كالىكى دار كالىكى دار كالىكى دار كالىكى د دار دار دار دار دار دار دار دار دار دار | *****, -,44-, 6***, 1687****************** | | 20/1 | 23 | C | 24 | 20/1 | | eren eran eran er han bren eran kanner e | errenter i taren innerenter erren - nan einnel Han |
| ,981 - 1496 1-466 1-466 1-466 1-466 1-466 1-466 1-466 1-466 1-466 1-466 1-466 1-466 | 194 | | 20/1 | 25 | A | 26 | 20/1 | min i i i i i i i i i i i i i i i i i i | terri ini laman mi linteriore dura | ************************************** |
| *** | ist riskfært (42 r.) (44 i printfarpræfært (44 gr.) 144 gr. | Creek high pungkang akan balam bilaka 1998an 199 | 20/1 | 27 | В | 28 | 20/1 | eree Gane cranele (elabble) erane erant te litar (ereene er | 1967 1860 PARIOTA 1880 CARDOTA MAI DE SAUDET PARIO ************************************ | eriense en amerikanske state en skriver i state i britan e limal i e |
| 4 (§ 6 (5 (7 (7 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 | 66+> 1664+> 1773-67-6845 67-78-15-15-1664+> 1664+> 1664+> | ************************************** | 20/1 | 29 | C | 30 | 20/1 | e a len l'unus inius illeternsossanissanise | geneusen mind man kanna mind hubbi ble | o mee cura curb cree e wero use la dul fabuu i |
| ************************************** | en maner mant benkam riser er sever menem minera | 0.3 | Į. | 31 | А | 32 | ************************************** | 0.3 | | ************************************* |
| E) RECEPTA | CLES | 0.3 | 20/3 | 33 | В | 34 | 20/3 | 0.3 | (E) RECEPT | TACLES |
| | | 0.3 | | 35 | С | 36 | | 0.3 | | |
| 2-62-4-1/1961 Linda a ander a arbit ad 1951 d'Arbit d'Arb | res e success seus s'i seus es écul () estes s'elepé () () () () | 0.3 | Total (and) to desire of the latest of the | 37 | А | 38 | 1944 (1944 (1986) 1944 (1979) 194 | 14.0 | PANEL 26L | <u> </u> |
| E) LOAD | | 0.3 | 20/3 | 39 | В | 40 | 125/3 | 14.0 | PANEL 26L | A |
| | | 0.3 | | 41 | С | 42 | | 14.0 | PANEL 26L | Ą |

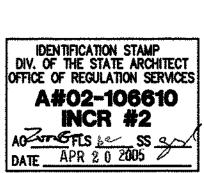
| POWER S | OURCE: PANE | EL 18RD, AUTO | D MECH, E | 31800 | | LOC | ATION: B | 2800 UNISEX | | | |
|-----------------|--|--|-----------|-------|-----------------------|------|---|--|----------------------|--|--|
| TYPE: BUS: 126A | | MAIN BKR 125A | ł | | 3Y/120 V (4 WIRES | T.LK | | INTING: RFACE | REMARKS: | | |
| LOAE |) SERVED | kvA | CB | ст | PHASE | ст | CB | kvA | LOAD | SERVED | |
| (N) WATER | RHEATER | 4.0 | F-D 200 | 1 | A | 2 | *************************************** | 6.0 | (N) FAN COIL HEATER | | |
| WOMEN'S | | 4.0 | 50/2 | 3 | В | 4 | 80/3 | 8.0 | | | |
| (N) WATER | RHEATER | 4.0 | £0/0 | 5 | С | 6 | | 6.0 | | | |
| MENS | | 4.0 | 50/2 | 7 | A | 8 | PF8 | | SPACE | 17 PALL C. MALL CORD (1888) (MERC) (1881) (1881) E (1897) 224 | |
| (N) WATEF | RHEATER | 2.3 | 0010 | 9 | В | 10 | 20/1 | 0.8 | (N) RECEPTACLES | | |
| UNISEX | | 2.3 | 30/2 | 11 | C | 12 | 20/1 | 0.0 | SPARE | | |
| SPARE | na neen verein ven van de kalender en de k enneer en | 0.0 | 20/1 | 13 | A | 14 | PF8 | | SPACE | | |
| AN CANLO | | 0.5 | 15/2 | 15 | В | 18 | 20/1 | 0.0 | SPARE | 11. E. 11. (17. 11. 11. 11. 11. 11. 11. 11. 11. 11. | |
| hal wan or | N) FAN COIL | | 1012 | 17 | С | 18 | 1 <i>E 1</i> 77 | 0.3 | TRANSFORM | /IER "NLI" FOF | |
| SPACE | 1909 D. 1908 D. Arrigador y Agus e proprio a reprio a apis e servição a partir de la compansa de la compansa | ehi list kudi di merashersawe ezer zeni ishmi | PFB | 19 | A | 20 | 15/2 | 0.3 | NORMAL LIGHTING | | |
| SPARE | | 0.0 | 20/1 | 21 | В | 22 | 20/2 | 0.8 | EF1 | ************************************** | |
| SPARE | na and leadar-elfe marcane and assertant | 0.0 | 20/1 | 23 | С | 24 | 20/2 | 0.8 | 1= - 1 | | |
| SPACE | | | PF8 | 25 | А | 28 | PFB | | SPACE | | |
| SPACE | -constituent all to a large state and stale | MITTER CONTRACTOR OF THE STATE | PFB | 27 | В | 28 | PFB | 1 | SPACE | THE PROGRAMMENT OF THE PARTY OF | |
| SPACE | Party Trans West Trans (Confess Party Party West Property) | | PF8 | 29 | С | 30 | PF8 | | SPACE | *************************************** | |
| SPACE | | | PF8 | 31 | A | 32 | PF8 | | SPACE | | |
| SPACE | | | PF8 | 33 | В | 34 | PFB | | SPACE | | |
| SPACE | TO THE PROPERTY OF THE PROPERT | THE COURT OF THE C | PFB | 35 | С | 36 | PF8 | The state of the s | SPACE | | |
| SPACE | THE THE PARTY OF T | | PFB | 37 | A | 38 | PFB | | SPACE | THE THE PERSON NAMED IN TH | |
| SPACE | | | PF8 | 38 | В | 40 | PF8 |] | SPACE | | |
| SPACE | | | PF8 | 41 | C | 42 | PF8 | | SPACE | | |
| 2. INSTAL | RCUIT BREAK L NEW CIRCL ISTING TYPE | JIT BREAKER | WITH ALL | | | | | PHASE A= PHASE B= PHASE C= | 14.3 14.5 13.9 | kva kva kva | |
| | | | | | | | | TOTAL = | 42.7 | kvA | |
| | | | | | | | | TOTAL = | 118.6 | Amperes | |



3540 FOLSON BOULEVARD SACRAHENTO, CALIFORNIA Telephone 916 453-1234 FACSIMILE 916 453-1236









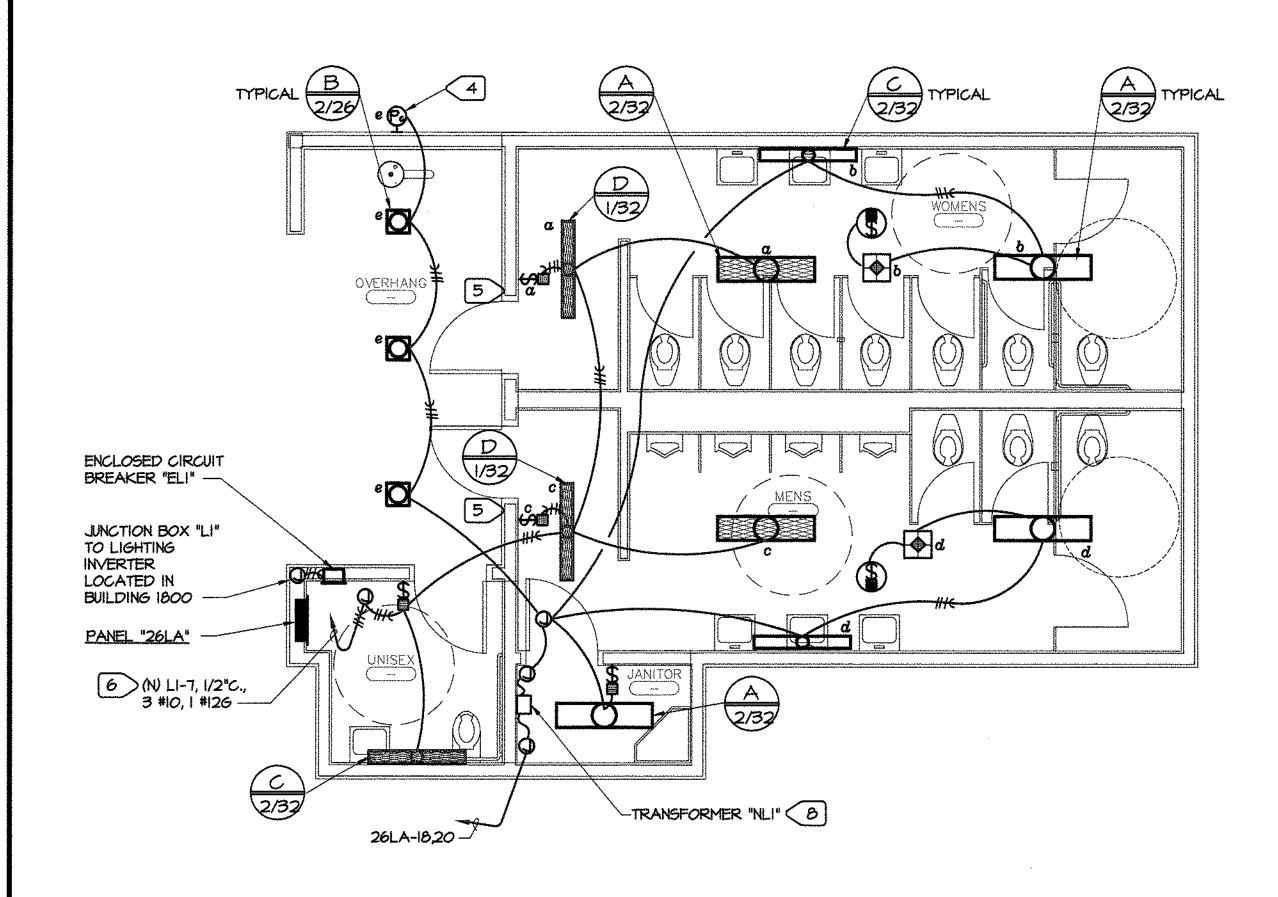


SOLANO COMMUNITY COLLEGE BUILDING 1800-B **INCREMENT #2** RESTROOM BUILDING 2600

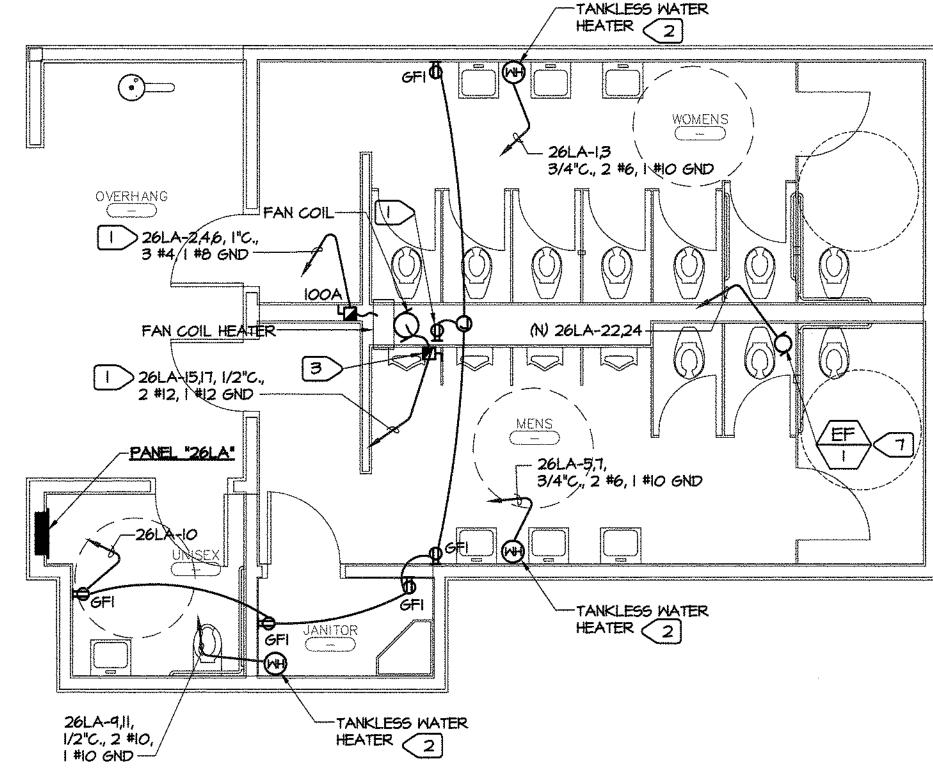
SITE PLAN - ELECTRICAL, ONE LINE POWER DIAGRAM AND PANEL SCHEDULE

> A4745.05 AS NOTED 20 APRIL 2005

E1.1



FLOOR PLAN - LIGHTING
SCALE: 1/4" - 1'-0"





NUMBERED NOTES

LOCATED IN ATTIC SPACE.

2 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

3 FAN COIL DISCONNECT IS PROVIDED AS PART OF FAN COIL UNIT.

4 POSITION PHOTO CELL FACING NORTH.

5 EMERGENCY LIGHTS CONTROLLED BY LOCAL SMITCH. LIGHTS TO ILLUMINATE DURING POWER OUTAGE REGARDLESS OF SMITCH SETTING.

6 CONNECT TO 27TV LIGHTING INVERTER OUTPUT VIA ENCLOSED CIRCUIT BREAKER "ELI". 1 LOCATED IN ATTIC. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.

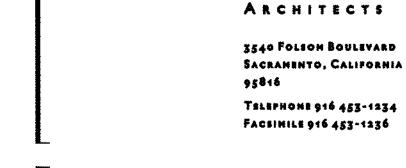
MOUNT TRANSFORMER ON WALL, 7' -O' A.F.F. CONNECT NORMAL LUMINAIRES TO TRANSFORMER SECONDARY (277V)

| | | | | | ······································ | |
|---------------|--------------------------|-----------------------|-----|--|--|--------|
| | | uminaire sc | HE | DULE | | |
| TYPE | MANUFACTURER | VOLTAGE | | LAMPS ROSS SECTION) | MOUNTING | REMARK |
| | CATALOG NO. | DESCRIPTION | QTY | TYPE | | |
| ٨ | H.E. WILLIAMS | 277 VOLT | _ | | CEILING | |
| A | 5-4-232T8- ID-EB2-277 | IX4 WRAP AROUND | 2 | F32T8/SP35 | SURFACE | |
| | CAPRI | 277 VOLT | | | RECESSED | |
| D | L29-277-52-T461-LF | RECESSED DOWNLIGHT | 2 | CF036W | CEILING | |
| | H.E. WILLIAMS | 277 VOLT | _ | | WALL | (1) |
| | 9-4-232T8- A-EB2-277 | WALL BRACKET | 2 | F32T8/5P35 | SURFACE | |
| + | H.E. WILLIAMS | 277 VOLT | | | CEILING | 2 |
| \mathcal{D} | 20-4-132- A-EBI-277 | 4 FOOT WRAP AROUND | | F32T8/SP35 | SURFACE | |
| | <u> </u> | | | | | |
| | | | | Section of the sectio | | |
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LUMINAIRE SCHEDULE REMARK NOTES:

PROVIDE WITH (1) 2-LAMP ELECTRONIC BALLAST.

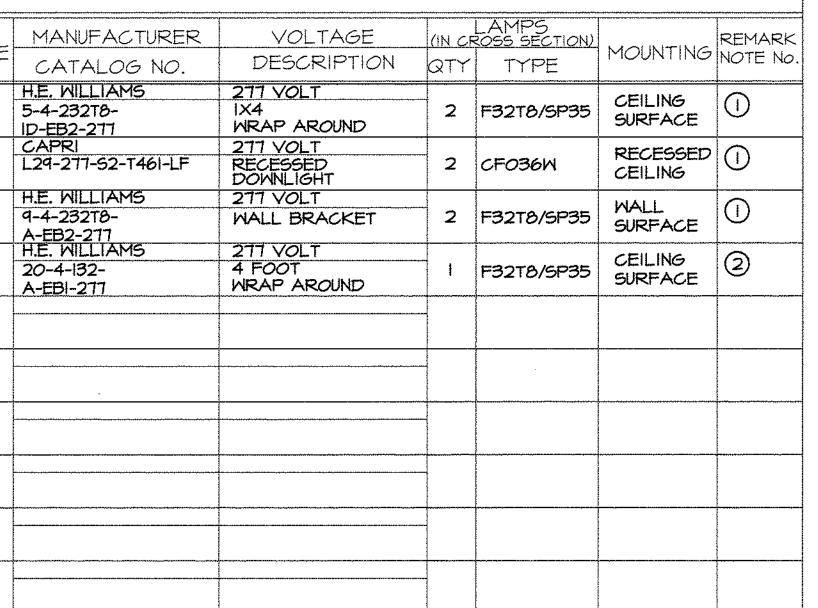
2 PROVIDE WITH (I) I-LAMP ELECTRONIC BALLAST.

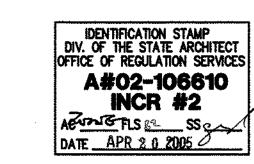


D R E Y F U S S & B L A C K F O R D

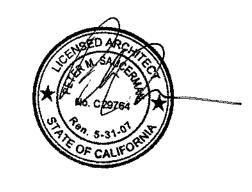


PROJECT #: 05004.21







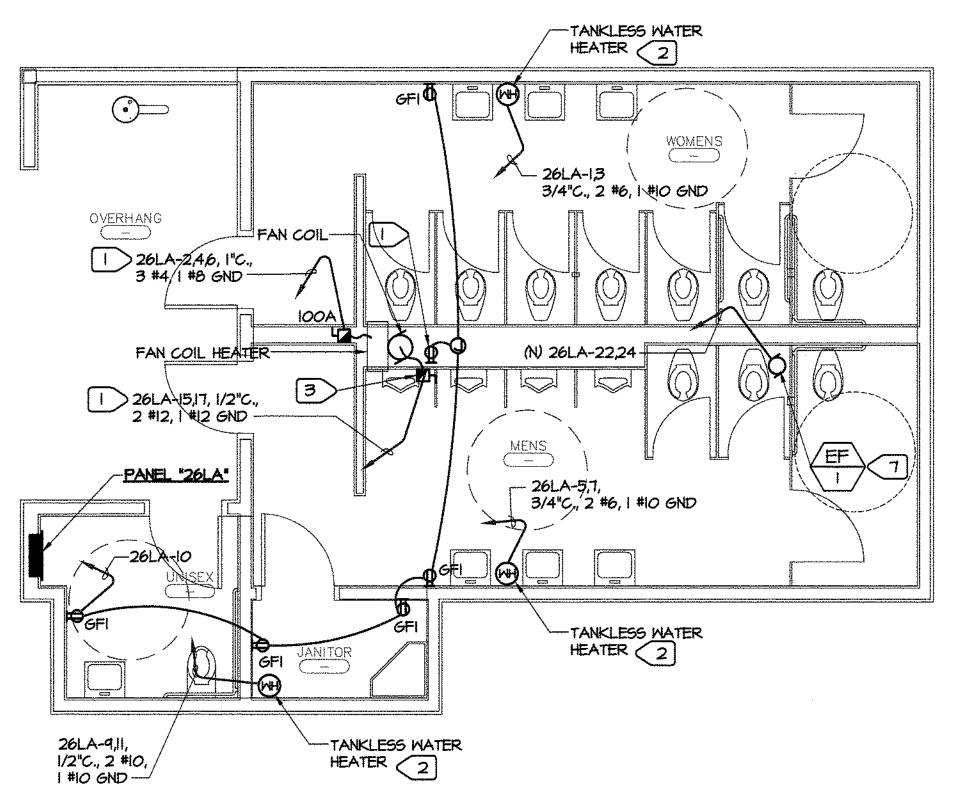


SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2** RESTROOM BUILDING 2600

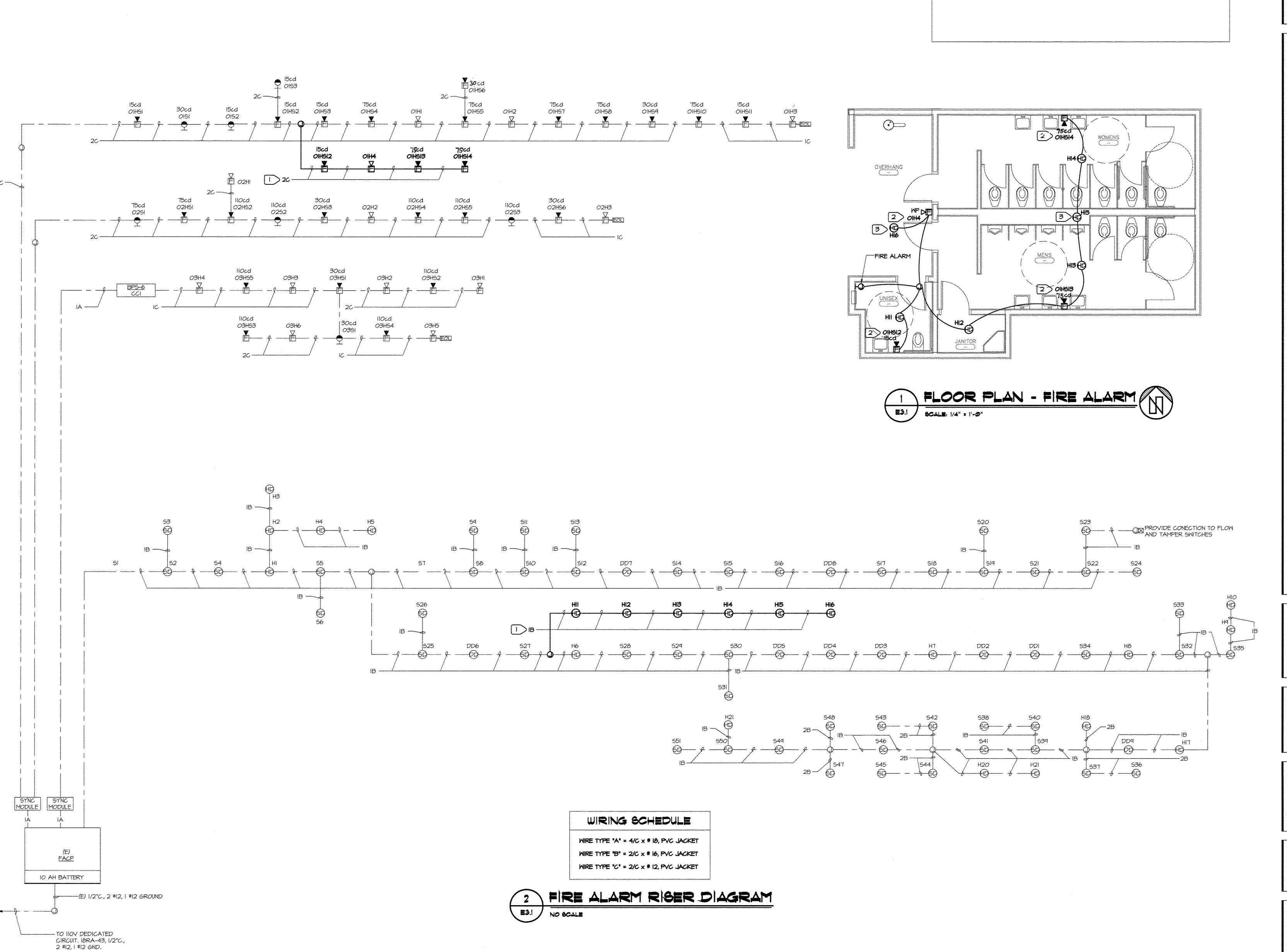
FLOOR PLANS - LIGHTING AND POWER

> A4745.05 AS NOTED 20 APRE. 2005

E2.1









NUMBERED NOTES

CONNECT NEW FIRE ALARM DEVICE TO EXISTING FIRE ALARM SYSTEM LOCATED IN BUILDING 1800-B.

3 LOCATED IN ATTIC SPACE. EDWARDS SYSTEM TECHNOLOGY #282 B

2 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

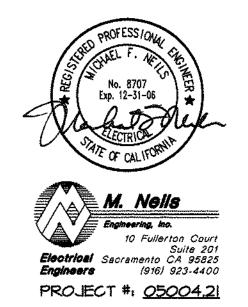
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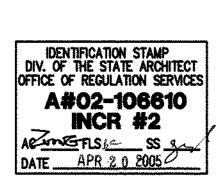
3540 FOLSOM BOULSVARD

SACRAMENTO, CALIFORNIA
95816

TELEPHONE 916 453-1234

FACSIMILE 916 453-1236







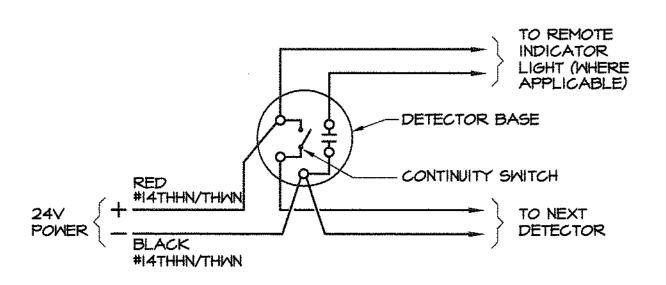


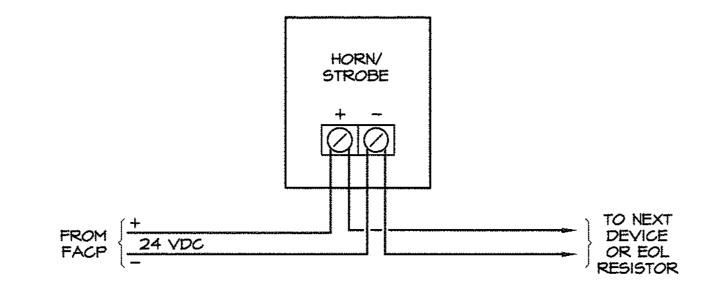
SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

FLOOR PLAN - FIRE ALARM AND RISER DIAGRAM

> A4745.05 A8 NOTED 20 APRIL 2005

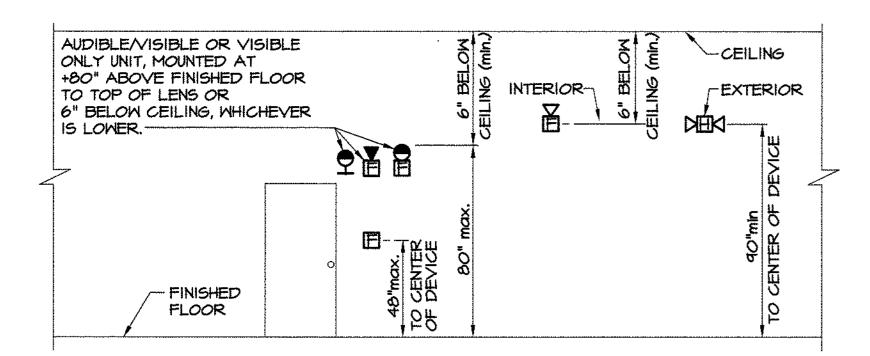
E3.1





HEAT DETECTOR POINT TO POINT WIRING DIAGRAM E3.2 NO SCALE

HORN/STROBE LIGHT POINT TO POINT WIRING DIAGRAM E32 NO SCALE



FIRE ALARM

PULL STATION, HORN AND/OR



STROBE UNIT ELEVATION

FIRE ALARM GENERAL NOTES

- I. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL IN BUILDING 1800-B.
- 2. FURNISH AND INSTALL NEW FIRE ALARM DEVICES AND CONNECT TO EXISTING FIRE ALARM CONTROL EQUIPMENT IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
- 3. SUBMIT FIRE ALARM SYSTEM PLANS TO DSA FOR APPROVAL IN ACCORDANCE WITH DSA GUIDELINES AND REGULATIONS AND REFERENCE IN THE SPECIFICATION.

AND SUBMITTALS FOR REVIEW.

- 4. COORDINATE WITH THE MANUFACTURER'S REPRESENTATIVE AND/OR SUPPLIER BEFORE BIDDING
- 5. PROVIDE FIRE ALARM SYSTEM WHICH CONFORMS TO THE FOLLOWING APPLICABLE CODES: CBC 2001; CEC 2001; CMC 2001; CFC 2001 STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY NFPA 72, 1999 EDITION WITH CALIFORNIA AMENDMENTS.
- 6. DO NOT START INSTALLATION OF THE FIRE ALARM SYSTEM UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY THE AOR/DSA.
- SATISFACTORY TEST OF THE ENTIRE SYSTEM IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR OF RECORD (IOR).

 8. PROVIDE A SIGNED COMPLETED CERTIFICATE OF COMPLETION TO THE DIVISION OF THE

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, CONDUCT A

- STATE ARCHITECTS OFFICE (DSA) UPON COMPLETION OF THE INSTALLATION IN OPERATIONAL ACCEPTANCE TESTS (NFPA SECTION 1-6.2.1)
- 9. SUBMIT ALL ALTERATIONS OF APPROVED CONSTRUCTION DOCUMENTS BY AOR/DSA TO ORS FOR NEW APPROVALS. DO NOT START INSTALLATION OF THE SYSTEM UNTIL DETAILED PLANS, SPECIFICATIONS AND NEW SHOP DRAWINGS AND SUBMITTALS HAVE BEEN APPROVED BY ORS/DSA. CONTRACTOR SHALL HAVE TOTAL RESPONSIBILITY FOR ANY DELAY.
- IO. THE ELECTRICAL SPECIFICATIONS ARE A VITAL PART OF THESE CONTRACT DOCUMENTS. THEY ARE FOUND IN THE BOUND PROJECT MANUAL. BECOME INTIMATELY FAMILIAR WITH THE SPECIFICATIONS PRIOR TO ANY WORK.
- II. PROVIDE AUDIBLE FIRE ALARM SOUND LEVEL AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREAS, BUT NOT LESS THAN 15 dBA AT 10 FEET OR MORE THAN 110 dBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (NFPA 72 SEC. 6-3.1.2)
- 12. PROVIDE STROBES WHICH FLASH AT A RATE NOT TO EXCEED TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (CBC SEC. 3504 AMENDMENTS)
- 13. PROVIDE WATERTIGHT FITTINGS AS SPECIFIED FOR EXTERIOR AND UNDERGROUND CONDUITS.
- 14. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 12 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER WFX OR UUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

| | | STANDBY | | | ALARM | |
|---|--|--|----------|------------------------|----------|----------|
| DESCRIPTION | QUANTITY | CURRENT | SUBTOTAL | | CURRENT | SUBTOTA |
| FACP | 1 | 0.140 | 0.140 A | CON-COLC | 0.260 | 0.260 A |
| DUCT DETECTORS | 9 | 0.000045 | 0.000 A | | 0.000045 | 0.000 A |
| SMOKE DETECTOR | 51 | 0.000045 | 0.002 A | of the State (Chicken) | 0.000045 | 0.002 A |
| HEAT DETECTOR | 21 | 0.000045 | 0.001 A | | 0.000045 | 0.001 A |
| ANNUNCIATOR | 1 | 0.092 | 0.092 A | | 0.105 | 0.105 A |
| HORN STROBE 110 | 2 | 0 | 0.000 A | | 0.179 | 0.358 A |
| HORN STROBE 75 | q. | 0 | 0.000 A | MEI38HAMY | 0.133 | 0.133 A |
| HORN STROBE 30 | 3 | 0 | 0.000 A | | 0.088 | 0.264 A |
| HORN STROBE 15 | 3 | 0 | 0.000 A | tarecondus. | 0.065 | 0.195 A |
| STROBE 110 | 3 | 0 | 0.000 A | | 0.14 | 0.420 A |
| STROBE 75 | 5 | 0 | 0.000 A | | 0.109 | 0.545 A |
| STROBE 30 | 3 | 0 | 0.000 A | | 0.063 | 0.189 A |
| STROBE 15 | 4 | 0 | 0.000 A | -Selection of the | 0.041 | 0.164 A |
| END OF LINE RESISTORS | 2 | 0.005 | 0.010 A | | 0.005 | 0.010 A |
| DUAL SYNC MODULE | 2 | 0.035 | 0.070 A | | 0.035 | 0.070 A |
| HORN | 7 | 0 | 0.000 A | · | 0.024 | 0.168 A |
| a kikika pambilingan kizy kuri jagin sidi pamah uripi dali kurim di in kuman yenyide badi kuzim nyigiya in musum nyoja panaya indopan | and the state of t | TOTAL | 0.176 A | GE003.493.6 | TOTAL | 2.625 A |
| STANDBY | 24 | HOURS X | 0.176 A | == | 4.215 | AH |
| ALARM | 5 | MNX | 2.625 A | = | 0.219 | AH |
| | | Americanis (Address (| TOTAL | = | 4.434 | AH |
| | | | BATTERY | _ | R | AH @ 24V |

FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

| ************** | | | INITIA ⁻ | TION | *************************************** | |
|----------------|--|--|---------------------|------------------|---|-------------------------------------|
| | | FIRE SPRINKLER TAMPER & FLOW SWITCH | SMOKE DETECTOR | HEAT DETECTOR | DUCT DETECTOR | ANY SYSTEM TROUBLE OR FAILURE |
| | ANNUNCIATE AT FACP | YES | YES | YE5 | YES | YES |
| | ACTIVATE AUDIO VISUAL THROUGHOUT | YES | YE5 | YE5 | YES | NO |
| 1.4 | TRANSMIT ALARM TO CENTRAL DEPT. | YES | YES | YES | YES | YE5 |
| RESPONSE | SHUT DOWN ASSOCIATED AIR HANDLER | NO | NO | NO | YES | NO |
| N P | ACTIVATE FIRE/SMOKE DAMPER | YES | YES | YES | YES | NO |
| | REMOTE ANNUNCIATOR | YES | YES | YES | YES | YES |
| | | | | | | |

VOLTAGE DROP CALCULATION- POINT-TO-POINT CIRCUIT WITH THE MOST DEVICES AND LONGEST RUN (Output Loop 1) Solano Building 1800B & B2600 ACCEPTABLE LIMIT: NOT TO EXCEED 2.4V (10%*24V)

| OHMS = : | (#14 FT * 3.07 | /1000 + #12 F | T * 1.98/1000+ | #10 FT * 1 | .21/1000) *2 |
|----------|----------------|---------------|----------------|------------|--------------|

| - | | | | • | | | | • | |
|---------|----------|--------------|-----|------------|------------|-----------|--------|---------|---------|
| DEVICE# | TO | DEVICE | FT | WIRE SIZE. | RESISTANCE | LOAD | LOAD | VOLTAGE | ACCUM. |
| | DEVICE # | | | #12 FPL | OF WIRE | ON DEVICE | ON RUN | DROP | VOLTAGE |
| | | | | | (OHM) | | (AMPS) | (VOLTS) | DROP |
| FACE | 1 | SYNC Module | 10 | 0.00198 | 0.848 | 0.035 | 0.035 | 0.001 | 0.001 |
| 1 | 2 | HS @ 15cd | 45 | 0.00198 | 0.178 | 0.065 | 0.100 | 0.018 | 0.019 |
| 2 | 3 | STROBE 30 cd | 45 | 0.00198 | 0.178 | 0.063 | 0.163 | 0.029 | 0.048 |
| 3 | 4 | STROBE 15 cd | 45 | 0.00198 | 0.178 | 0.063 | 0.226 | 0.040 | 0.089 |
| 5 | 5 | HS @ 15cd | 50 | 0.00198 | 0.198 | 0.065 | 0.291 | 0.058 | 0.146 |
| 6 | 6 | HS @ 15cd | 100 | 0.00198 | 0.396 | 0.065 | 0.356 | 0.141 | 0.287 |
| 7 | 7 | HS @ 30cd | 40 | 0.00198 | 0.158 | 0.063 | 0.419 | 0.066 | 0.353 |
| 8 | 8 | HS @ 30cd | 40 | 0.00198 | 0.158 | 0.063 | 0.482 | 0.076 | 0.430 |
| 9 | 9 | HORN | 40 | 0.00198 | 0.158 | 0.026 | 0.508 | 0.080 | 0.510 |
| 10 | 10 | STRÖBE 15 cd | 150 | 0.00198 | 0.594 | 0.063 | 0.163 | 0.097 | 0.607 |
| 11 | 11 | HS @ 15cd | 75 | 0.00198 | 0.297 | 0.065 | 0.228 | 0.068 | 0.675 |
| 12 | 12 | HS @ 75cd | 70 | 0.00198 | 0.277 | 0.133 | 0.361 | 0.100 | 0.775 |
| 13 | 13 | HORN | 40 | 0.00198 | 0.158 | 0.026 | 0.387 | 0.061 | 0.836 |
| 14 | 14 | HS @ 75cd | 80 | 0.00198 | 0.317 | 0.133 | 0.52 | 0.165 | 1.001 |
| 15 | 15 | HS @ 30cd | 20 | 0.00198 | 0.079 | 0.063 | 0.583 | 0.046 | 1.047 |
| 16 | 16 | HORN | 35 | 0.00198 | 0.139 | 0.026 | 0.609 | 0.084 | 1.132 |
| 17 | 17 | HS @ 75cd | 70 | 0.00196 | 0.277 | 0.133 | 0.742 | 0.206 | 1.337 |
| 18 | 18 | HS @ 75cd | 75 | 0.00198 | 0.297 | 0.133 | 0.875 | 0.260 | 1.597 |
| 19 | 19 | HS @ 30cd | 50 | 0.00198 | 0.198 | 0.063 | 0.938 | D.186 | 1.783 |
| 20 | 20 | HS @ 75cd | 20 | 0.00198 | 0.079 | 0.133 | 1.071 | 0.085 | 1.868 |
| 21 | 21 | HS @ 15cd | 65 | 0.00198 | 0.257 | 0.065 | 1.136 | 0.292 | 2.160 |
| 21 | 22 | HORN | 20 | 0.00198 | 0.079 | 0.026 | 1.162 | 0.092 | 2.252 |

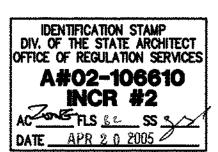


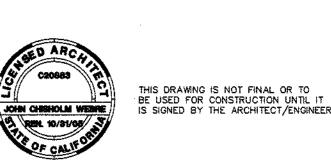
ARCHITECTS

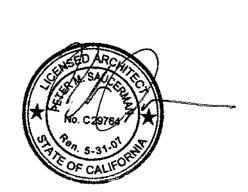
3540 FOLSOM BOULEVARD SACRAMENTO, CALIFORNIA 95816 TELEPHONE 916 453-1234 FACSIMILE 916 453-1236









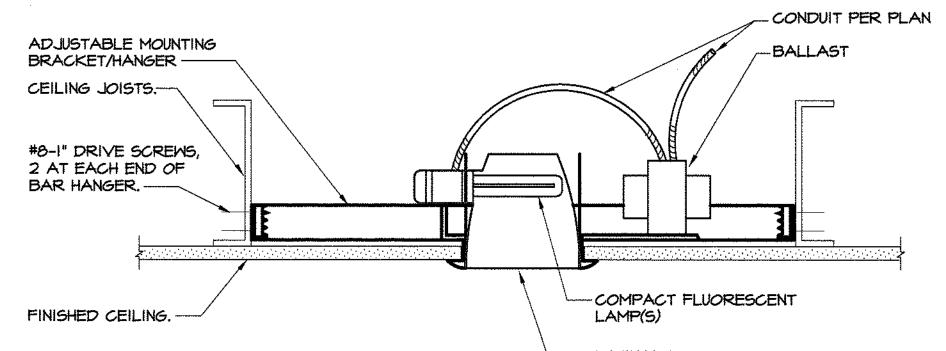


SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
INCREMENT #2
RESTROOM BUILDING 2600

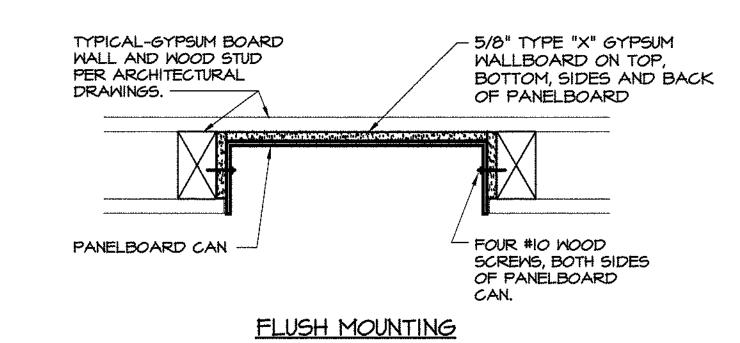
FIRE ALARM SCHEDULE, NOTES, DETAILS AND CALCULATIONS

A4745.05 AS NOTED 20 APRIL 2005

E3.2



2 × 4 MOOD BLOCK, LAYED FLAT, BETWEEN - ADJUSTABLE BAR HANGER CEILING JOISTS. PROVIDE ONE AT EACH WITH 1/2" THREADED NIPPLE FASTENED TO BOX WITH END OF LUMINAIRE AND ADDITIONAL BLOCKING AT 4'-O" CENTERS MAXIMUM FOR LUMINAIRES 1/2" LOCKNUT LONGER THAN 4'-O". --- CEILING JOISTS. -#10-3" DRIVE #8-1" DRIVE SCREMS, 2 AT EACH END OF SCREWS, 2 AT EACH END OF BLOCKING. BAR HANGER. FINISHED CEILING. 1/4" LAG SCREW OCTAGON OUTLET BOX WITH ROUND (I-I/2" EMBEDMENT) WITH LARGE FLAT WASHERS DEVICE RING, DEPTH OF FINISHED CEILING. MINIMUM OF 2 PER BLOCKING-



RECESSED COMPACT FLUORESCENT

LUMINAIRE MOUNTING DETAIL

NO SCALE

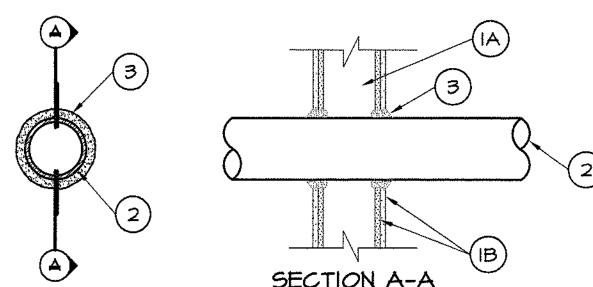
≡4.1

(METAL FRAMING)

SURFACE LUMINAIRE MOUNTING DETAIL NO SCALE (MOOD FRAMING)

PANELBOARD MOUNTING DETAIL **基4.**f (MOOD FRAMING) NO SCALE

U.L. FIRE STOP SYSTEM # WLIOOI F RATINGS-I, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS-0, I, 2, 3 AND 4 HR (SEE ITEM 3)



L RATING AT AMBIENT-LESS THAN I CFM/SQ FT (SEE ITEM 3) L RATING AT 400 F-LESS THAN I CFM/SQ FT (SEE ITEM 3)

GENERAL NOTE:

"THROUGH PENETRATION FIRE STOP SYSTEM" DETAIL IS FOR REFERENCE ONLY. PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CBC SECTIONS 709.6 AND 710.2, SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED LISTING. MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED LISTING SHALL BE PROVIDED FOR REVIEW BY INSPECTION AUTHORITIES, SUBSTITUTIONS OF OR REVISIONS OR ADDITIONS TO APPROVED SYSTEMS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD AND THE FIRE MARSHAL FOR FIELD REVIEW AND APPROVAL.

DETAIL KEY NOTES:

WALL ASSEMBLY-THE 1, 2, 3 OR 4 HOUR RATED GYPSUM WALLBOARD/STUD ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

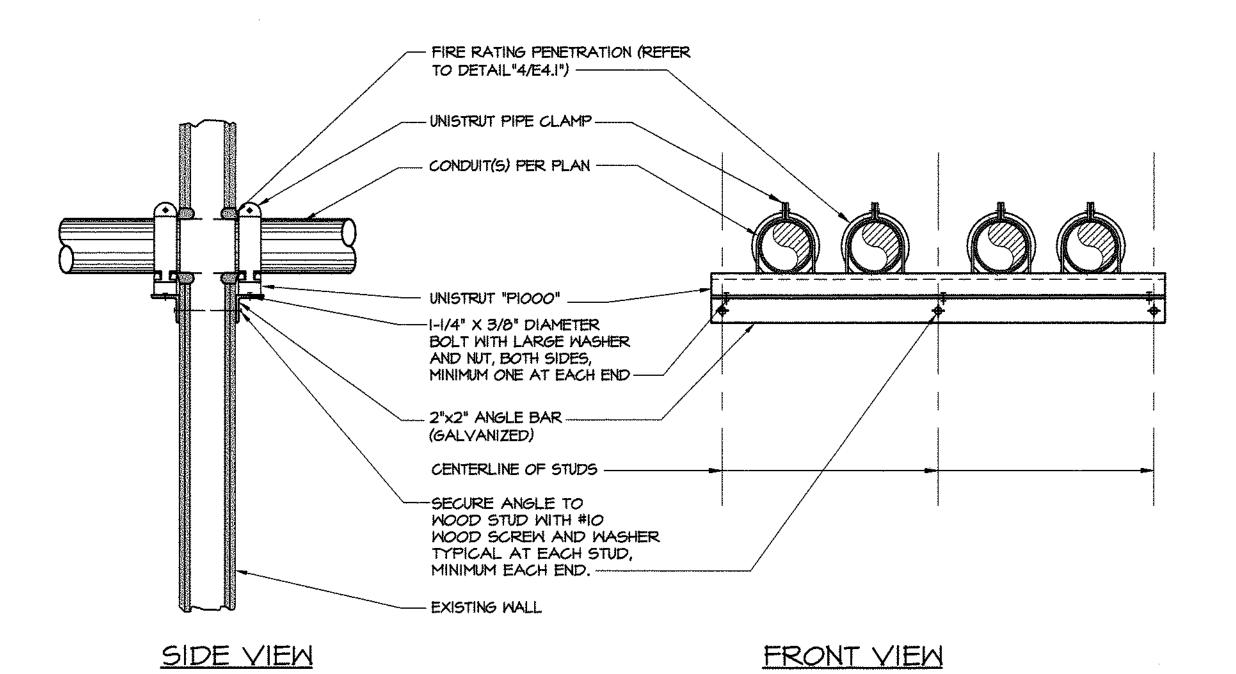
A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HOUR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 INCH LUMBER SPACED 16 INCHES ON CENTER WITH NOMINAL 2 BY 4 INCH LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 INCH WIDE BY I-3/8 INCH DEEP CHANNELS SPACED MAX 24 INCH ON CENTER.

- B. GYPSUM BOARD* -NOMINAL 1/2 OR 5/8 INCH THICK, 4 FEET WIDE WITH SQUARE OR TAPERED EDGES THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. OPENING IS 13-1/2 IN.
- 2. PIPE OR CONDUIT- NOMINAL 12 INCH DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOMINAL 12 INCH DIAMETER (OR SMALLER) STEEL CONDUIT, NOMINAL 4 INCH DIAMETER (SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (HEAVIER) COPPER TUBING OR NOMINAL I INCH DIAMETER (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM #3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOMINAL 4 INCH DIAMETER MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- 3. FILL, VOID OR CAVITY MATERIAL* -CAULK-CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 INCH DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM WALL. CAULK INSTALL SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY RATING OF FIRESTOP SYSTEM IS DEPENDANT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS

| 1AX PIPE OR CONDUIT DIAM, (INCH) | ANNULAR SPACE | F RATING, HR | T RATING HR |
|--|------------------|--------------------|-------------------|
| | O TO 2//6 | 1.00.0 | 0.100 |
| | O TO 3/16 | IOR 2 | 0+,1 OR : |
| | 1/4 TO 1/2 | 3 OR 4 | 3 OR 4 |
| } | 0 TO 1/4 | 10R2 | 0 |
| • | 1/4 TO 1/2 | 3 OR 4 | 0 |
| 2 | 3/16 TO 3/8 | 1 OR 2 | 0 |
| | | | |

+WHEN COPPER PIPE IS USED, T RATING IS O H. MINNESOTA MINING AND MFG. CO. TYPE CP-25 WB+.

* BEARING THE UL CLASSIFICATION MARK





CONDUIT PENETRATION THROUGH WOOD STUD WALL

NO SCALE

DREYFUSS& BLACKFORD

ARCHITECTS

3540 FOLSON BOULEVARD

SACRAMENTO, CALIFORNIA

TELEPHONE 916 453-1234

FACSINILE 916 453-1236

10 Fullerton Court

Electrical Secremento CA 95825 Engineers (916) 923-4400

PROJECT #: 05004.21

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES A#02-106610 INCR #2 DATE APR 2 0 2005

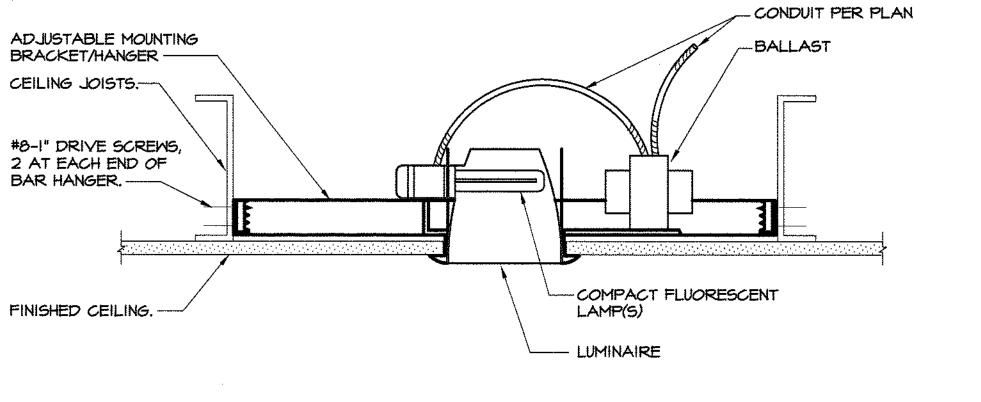




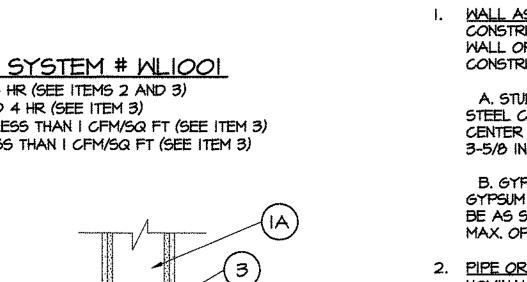
SOLANO COMMUNITY COLLEGE **BUILDING 1800-B INCREMENT #2 RESTROOM BUILDING 2600**

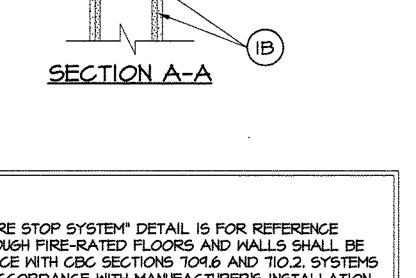
ELECTRICAL DETAILS

E4.1











| Z | (Part 1 of 3) | <u></u> |
|---|--|--------------------------------|
| PROJECT NAME SOLANO COMMUNITY COLLEGE BLDG. 1800-B, INC.#2, | RESTROOM BLDG. 2600 | DATE 02/25/05 |
| PROJECT ADDRESS | | |
| 4000 SUISUN VALLEY RD., FAIRFIELD, CA 94534 PRINCIPAL DESIGNER-LIGHTING | TELEPHONE | - I EUGERFAR |
| MICHAEL F. NEILS DOCUMENTATION AUTHOR | 916-923-4400 | Charles B-losis |
| PAMELA M WEIL | TELEPHONE 916-923-4400 | Brigger 1 - 12 - 13 est |
| GENERAL INFORMATION | | |
| DATE OF PLANS BUILDING CONDITIONED FLOOR A REA | | CLIMATE ZONE |
| | QUARE FEET | 12 |
| BUILDING TYPE HIGH-RISE RESIDENTIAL X PHASE OF CONSTRUCTION X NEW CONSTRUCTION | NONRESIDENTIAL HOTELIMOTEL ALTERATION ADDITION | UNCONDITIONED (file affidavit) |
| METHOD OF LIGHTING COMPLIANCE X COMPLETE BUILDING | AREA CATEGORY TAILORED | PERFORMANCE |
| STATEMENT OF COMPLIANCE | | |
| This Certificate of Compliance lists the building features and per 1 and 8 of the California Code of Regulations. This certificate a | | |
| The documentation preparer hereby certifies that the document | tation is accurate and complete. | |
| PAMELA M WEIL | Martine M Weil | DATE 02/26/05 |
| The Principal Lighting Designer hereby certifies that the propos | ed building design represented i | |
| documents is consistent with the other compliance forms and a calculations sunbmitted with this permit application. The proper requirements contained in the applicable parts of Sections 110 | sed building has been designed | to meet the lighting |
| Please check one: | | |
| X I have by affirm that I am eligible under the provisions of Division of Divisions as the person responsible for its prepartion; an engineer or electrical engineer, or I am a licensed architect. | d that I am licensed in the State o | |
| I affirm that I am eligible under the provisions of Division 3 of 6737.3 to sign this document as the person responsible for performing this work. | | |
| affirm that I am eligible under Division 3 of the Business at pertains to a structure or type of work described as exempt; 5538 and 6737.1. | | |
| (These sections of the Business and Professions Code are pri | nted in full in the Nonresidential l | Manuel) |
| PRINCIPAL LIGHTING DESIGNERS NAME SIGNATURE MICHAEL F. NEILS | Aud E8707 | DATE 02/26/06 |
| LIGHTING MANDATORY MEASURES | | |
| indicate location on plans of Note Block for Mandatory | / Measure | |
| INSTRUCTIONS TO APPLICANT | | |
| For detailed instructions on the use of this and all Energy Efficie Nonresidential Menual published by the California Energy Con | - | , please refer to the |
| LTG-1: Required on plans for all submittals. Part 2 and 3 may LTG-2: Required for all submittals. LTG-3: Optional, Uses only if lighting control credits are taken. LTG-4/LTG-5: Optional. Part 2 and 3 are optional if Tailored Me | | plans. |

| CERTIF | CATE OF COM | /PI | _ [/ | N A | CE | * * | | | (Pa | rt 2 c | of 3) | LT | G-1 |
|-----------------------------|--|-------------|----------|------------|--|----------------------|----------|------------|-------------------------|---------------|----------------------------|--------------------|--|
| PROJECT NAME SOLANO COMA | MUNITY COLLEGE BLDG. | 1800 |)-B | INC | .#2. F | RESTR | 00 | M BL | DG . 260 | 0 | DA TE 02/25/0 |)5 | |
| | IGHTING SCHEDULE | | | | | | | | | | | | |
| | | | | LAF | vPS | | | BALL | ASTS | | VARE | | |
| CODE LUN | INARE DESCRIPTION | | yp s | , است | No.of amps | Watts Per Lamp | S | ype E C | No. of Ballest | Nio of | Bailast Watts/ Lumin | TOTAL | WATTS |
| | AP AROUND | | Х | | 2 | 31 | l | X | 1 | 5 | 62 | | 310 |
| R | BRACKET | | Х | | 2 | 31 | | Х | 1 | . 3 | 62 | | 186 |
| D 4'WRAP | AROUND | | Х | | 1 | 31 | | Х | 1 | 2 | 31 | | 62 |
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| Lighting Sched | lule on Plans Shows | | | | | | | SUB | TOTAL FI | ROMITH | SPAGE | | 55 8 |
| Exterior Lightle | ng Meets | | | p | LUS | SUBTO | TA | FRO | M CONTI | NUATIO | N PAGE | | |
| | ' | | | 1 | PORT | ABLE | LIGI | HTING | From L | TG-1 Pa | rt3 of3) | | <u> </u> |
| Efficacy and Co | ontrol Requirements of § 130i | | | | | | | | · B | UILDING | TOTAL | | 558 |
| Control Require | ments of § 131 (f) | | | L | ESS. | CONTR | ROL | CRE | DIT WAT | S (From | LTG-3) | | 124 |
| | , | | | | | | | | JUSTED | • | - | | 434 |
| MANDATORY | AUTOMATIC CONTR | OL | <u> </u> | ··=-···· | | | | | | | | | |
| C | ONTROL LOCATION | | | (| ONTE | OL. | | CON | TROLT | YPE | l SF | ACE | NOTE TO |
| | (Room Number) | | | • | | ATION | (A u | | Switch, Ext | | 11 | ROLLED | FIELD |
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| | ONTO 01 1 00 0710N | | | | CONTR | RÓL. | | ~~ | 1.T.D.O.L. T. | | 11 | NARES | NOTE TO |
| | ONTROL LOCATION Number or Drawing Number) | | | IDE | VTFIC | ATION | ., | | ITROLT' Daylghi, Dim | | CONT Type | ROLLED # of Lum | FIELD |
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| NOTES TO E | IELD - For Building De | ner | tm | ent l | loo | Only | | | | | | <u> </u> | |
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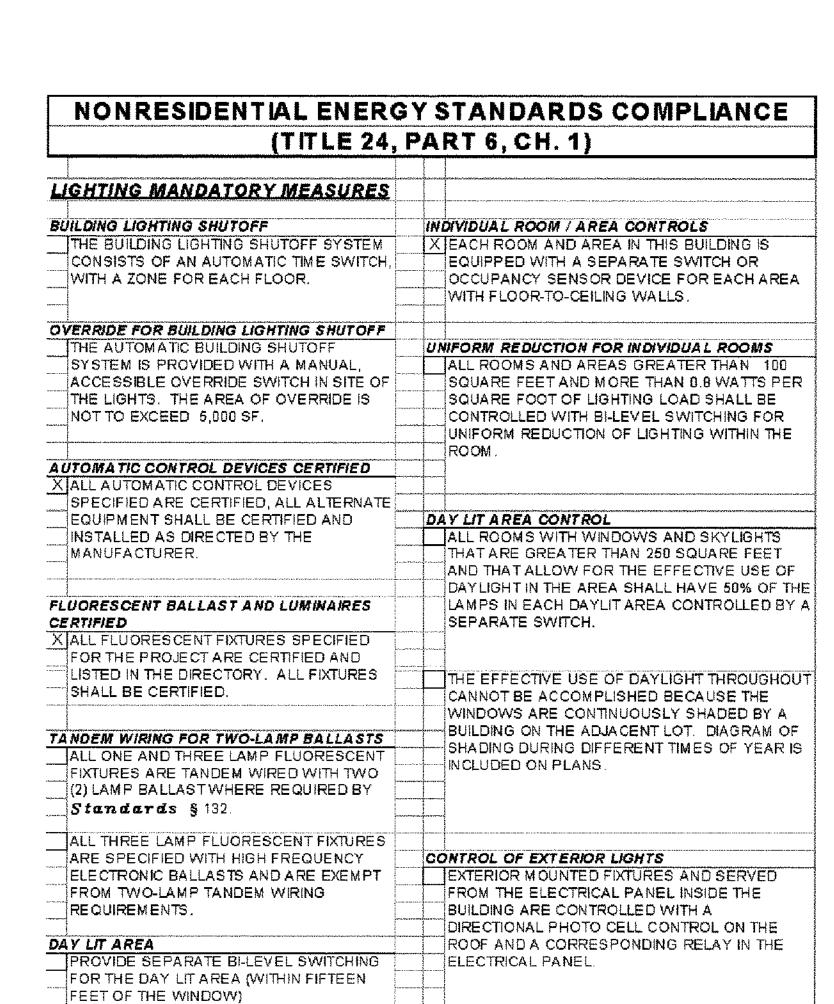
| HTY COLLEGE BLDG. 1 | 800 | -B , I | NC | .#2, [| REST | ROO |)M E | BLDO | 3.260 | 0 | DA TE 02/25/ | 05 | | PROJECT NAME SOLANO CO | MMUNITY COLLEGE BLDG. | 1800-B. INC #2. R | ESTROOM E | | DATE 02/25/05 | |
|---------------------------------------|-------------|----------------|-------------|----------------|--------------|----------|--------|----------|-------------------|----------------------|--|---|-------------------------|---|-------------------------|---|-------------------|-------------------|--|----------------|
| HTING SCHEDULE | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | PORTABLE LIGHTING NO | | | | | UARE FEE |
| | | | | MPS | Walts | | BAL | - 1 | | | NARE | All . | | TADEL TA | ONIABLE BOILING NO | <u> </u> | 1 | | LA > 200 GQ | OARE FEE |
| IRE DESCRIPTION | , | yp e F | _ | No.of _amps | Per | - | Type | _ | No. of Ballast | No. of | + Bailas! Watts/ | חיטית | L WATTS | | A | В | C | | I | D |
| AROUND | | х | + | 2 | Lamp 31 | | X | - | 1 | Lumin. 5 | Lumin 62 | | 310 | | ROOM# OR ZONE ID | DEFAULT (WATTS) | AREA | (SF) | TOTAL WA | TTS (B x C) |
| CKET | | X | 1 | 2 | 31 | | X | | 1 | 3 | 62 | | 186 | NOT APPLICA | ABLE FOR THIS BUILDING | | | | | |
| OUND | | X | + | 1 | 31 | - | X | - | 1 | 2 | 31 | | 62 | | <u></u> | | | | | |
| | | | \top | · | | | | \top | | | | | | | | | | | | |
| | | \blacksquare | | | | | | | | | | | O | *************************************** | | | | | | |
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| | | | | | | | | | | | | | C | | | | | | | |
| on Plans Shows Vicets | | | P | LUS | SUBT | OTA | | | | | IS PAGE)N PAGE | <u></u> | 556 | | | TOTAL | | 0 | | |
| el Requirements of § 130i | | | | PORT | TABLE | LIG | HTIN | IG (F | | | rt3 of3) G TOTAL | | <u>9</u> 55 8 | TABLE 1B - | PORTABLE LIGHTING SH | OWN ON PLANS | FOR OFFI | CE AREA | > 250 SQUAR | E FEET |
| ts of § 131 (f) | | | L | ESS | CONT | ROL | CR | EDIT | | | n LTG-3] | | 124 | А | В | C | d | E | F | G |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | _ WATTS | | 434 | ROOM#OR ZONE (D | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | TASK AREA (SF) | NUMBER OF TASK | TOTAL AREA (SF) (Dx E) | TOTAL WAT |
| JTOMATIC CONTRO |)r2 | | | | | | | | | | | | | | | | | | 0 | |
| TROL LOCATION Room Number) | | | | CONTR | ROL ATION | ra u | | | ROLT | YPE terior, atc.) | 11 | PACE ROLLED | NOTE TO | ····· | | | | | 0 | |
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| R CREDIT | | | | | | # | | | | <u>-</u> | <u> </u> | *************************************** | | | | | | TOTAL | 0 | ; ; |
| TROL LOCATION | | | | CONTR | | | CC | ONTE | ROL T | YPE | | NARES ROLLED | NOTE TO | TABLE 1C - PL | ANS SHOW PORTABLE LIGHT | NG IS NOT REQUIR | ED FOR OFFIC | E AREAS > 2 | 50 SQUARE FEE | T |
| ber or Drawing Number) | | | | NI # IC | ATION | (1 | Осочра | nt, Day | dam, Dim | ming, eta.) | Ty pe | # of Lum | FIELD | F | ROOM#OR ZONEID | TOTAL AREA (SF) | | | <u></u> | |
| | | _ - | | | | - | | | | | | | | | | | Designer ne | eds to provid | e detailed docur | mentation tha |
| | | | | | | ┢ | | | | | | | 1 | | | | , | | by the overhead | |
| | ~ | | | | | | | | | | | | | | | | ł . | | The details inclu locations relativ | |
| | | | | | | - | | | | | | <u> </u> | - | | | | liypes, oo, ar | ia incanang | TOCABOTTS TETRAM | G TO WOLK ALC |
| .D - For Building Dep | part | me | nt | Use | Only | <u> </u> | | | | : | | 1 | | | TOTAL | 0 | | | | ····· |
| | | | | | | · | | | | | | | | BUILDING | SUMMARY - PORTABLE | LIGHTING | | | | |
| | ····· | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | BU | LDING SUMMARY | TOTAL ARE (FROM TABLES 1/ | , , | (FR | TOTAL WATT OM TABLES 1A | |
| | | | | | | | | | | | | | | | BUILDING TOTAL | 0 | | | 0 | |
| | | | | | | | | | | | | | | | | | | Enter on L | .TG-1 and LTG-2: | Portable Light |
| | | | | | | | | | | | | | | | | | | | | |

CERTIFICATE OF COMPLIANCE

| PROJECT NA M | | | | DATE | LTO |
|---------------------|--|--|--|---|---------------------------|
| | OMMUNITY COLLEGE BLDG. 1800 LIGHTING POWER | I-B, MC.#2, RES | TROOM BLOG. 2600 | 02/25/05 |) |
| | | hu nemera or | The Troperty Marks To | B 050 555 14 50 | |
| LUMINA IRE NA ME | TYPE DESCRIPTION | NUMBER OF | WATTS PER LUMINAIRE (including Ballast) | CEC DEFAULT? | TOTALWA |
| A | 1%4' WRAP AROUND | 5 | 62 | X | |
| C | 4' WALL BRACKET | 3 | 62 | | |
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| | | PLUS SI | UBTOTAL FROM CONTIN | | |
| | | | BLE LIGHTING (From LT | | |
| | | | | JILDING TOTAL | |
| | | LESS C | ONTROL CREDIT WATT | S (From LTG-3) | |
| | | | | • | |
| | LIGHTING POWER (Choose | <u>.</u> | | CTUAL WATTS | |
| | TE BUILDING METHOD | <u>.</u> | | | |
| | | <u>.</u> | | COMPLETE BLDG. AREA | ALLOW |
| | FE BUILDING METHOD BUILDING CATEGORY | <u>.</u> | | COMPLETE | ALLOW |
| COMPLET | FE BUILDING METHOD BUILDING CATEGORY (From § 146(b) Table 1-M) | <u>.</u> | WATTS PER SF | COMPLETE BLDG. AREA | ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | FEBUILDING METHOD BUILDING CATEGORY (From § 146(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD | <u>.</u> | WATTS PER SF | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
| COMPLET | BUILDING METHOD BUILDING CATEGORY (From § 148(b) Table 1-M) RESTROOMS (OTHER) EGORY METHOD AREACATEGORY | <u>.</u> | WATTS PER SF 0.6 | COMPLETE BLDG. AREA 758 | ALLOW WATTS ALLOW |
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From LTG-4 or from computer run.

| ROJECT NAM SOLANO CO | E DMMUNITY COLLEGE BLDG. | 1800-B, | NC.#2, RE | STROO | M BLDG | . 2600 | DATE 82/25/05 | |
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| Α | 8 | С | D | E | F | G | H | l |
| ROOM# ZONEID | LIGHTING CONTROL DESCRIPTION | PLANS REF. | ROOM AREA (SF) | _ | GHTINO Glazing Vit. | CONTROL LIGHTING (w atts) | LIGHTING ADJUST- MENT FACTOR | CONTROL CREDIT WATTS (G x H) |
| MENS | OCCUPANCY SENSOR | | 80 | | | 248 | 0.2 | |
| NOMENS | OCCUPANCY SENSOR | | 80 | | | 248 | 0.2 | |
| UNISEX | OCCUPANCY SENSOR | | 57 | | | 62 | 0.2 | |
| JANITOR | OCCUPANCY SENSOR | | 30 | | | 62 | 0.2 | |
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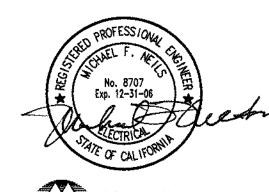




(Part 3 of 3) LTG-1

ARCHITECTS

3540 FOLSOM BOULSVARD SACRAMENTO, CALIFORNIA Telephone 916 453-1234 FACSINILE 916 453-1236



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES A#02-106610 INCR #2 AC THE SE SS 9 DATE APR 2 0 2005



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SOLANO COMMUNETY COLLEGE **BUILDING 1800-B INCREMENT #2** RESTROOM BUILDING 2600

TITLE 24 LIGHTING COMPLIANCE

> A4745.05 AS NOTED 20 APRIL 2005

> > **T24**