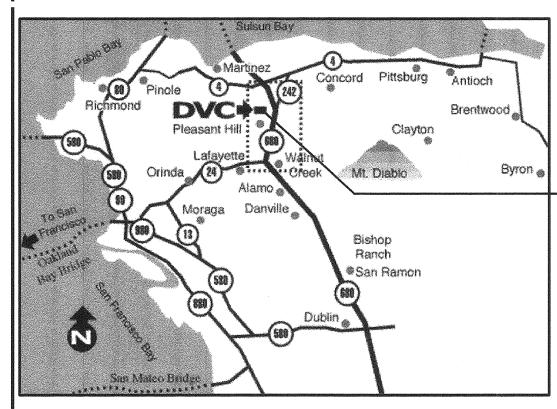
VICINITY MAP



Diablo Valley College 321 Golf Club Road Pleasant Hill, CA 94523

WHERE OCCURS

10.15

- PREFIX DESIGNATES SPECIFICATION DIVISION

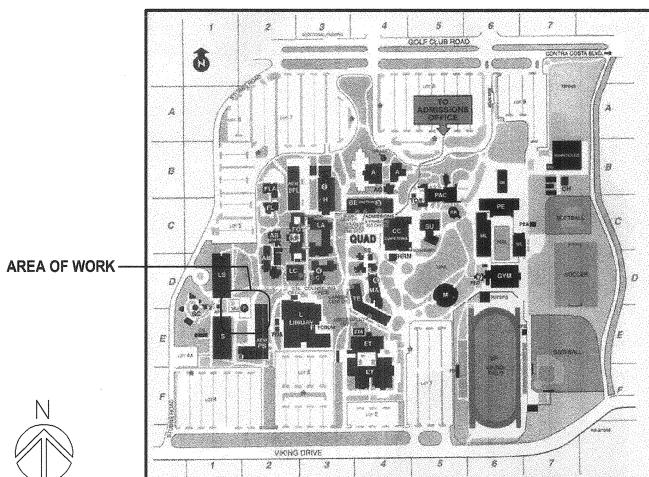
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DIABLO VALLEY COLLEGE PLANETARIUM

INTERIOR MODERNIZATION

321 GOLF CLUB ROAD PLEASANT HILL, CA 94523





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ABBREVIATIONS ANGLE FLOOR DRAIN FOUNDATION OUTSIDE DIAMETER CENTERLINE OWNER SUPPLIED FIRE EXTINGUISHER DIAMETER OR ROUND CONTRACTOR INSTALLED POUND OR NUMBER FLAT HEAD SCREW PENNY OVERFLOW SCUPPER **EXISTING** FURNISHED AND INSTALLED OVERHEAD FORMED JOIN ACCS ACCESS OR ACCESSIBLE **FLEXIBLE** PERFORATED ACOUSTICAL CEILING TILE PERPENDICULAR FLUORESCENT **ADDITION** ADJUST, ADJUSTABLE ABOVE FINISH FLOOR PAIR FACE OF STUD AGGR AGGREGATE ALUMINUM ALTERNATE ACCESS PANEL APPROXIMATE REFERENCE REINFORGED REQUIRED BUILDING RETURN **BENCH MARK** BOTTOM CATCH BASIN SCHEDULE; SCHEDULED SEE ELECTRICAL DWGS. CHANNEL HOLLOW METAL CAST IRON HOLLOW CONTROL JOINT SHEET HORIZONTAL CHAIN LINK SHEATHING HIGH POINT CLG CEILING SIMILAR CLR CLEAR SLOPE CMS SEE LANDSCAPE DWGS COUNTERSUNK MACHINE INSIDE DIAMETER (DIM) SEE MECHANICAL DWGS **SCREW** INCH SLAB ON GRADE COLUMN INCR INCREASE SEE PLUMBING DWGS. CONC CONCRETE SPECIFICATIONS CONN CONNECTION JOIST CONT CONTINUOUS SEE STRUCTURAL DWGS JOINT STAINLESS STEEL CONTR CONTRACTOR CTR STEEL CTSK COUNTERSINK, (SUNK) LINEAR STRUCT STRUCTURAL LIGHT SUSPEND; SUSPENDED DOUBLE LIGHTING DET DETAIL TONGUE AND GROOVE DIA DIAMETER THICK DIAG. DIAGONAL MAXIMUM THROUGH MACHINE BOL DOWN MECHANICAL TOP OF STEEL DOWNSPOU MEMBRANE TOP OF PAVEMENT MANUFACTURER TYPICAL **EXISTING** MINIMUM MISCELLANEOUS EACH UNFINSHED MACHINE SCREV EXPANSION BOLT UNLESS OTHERWISE NOTED MOUNTED **EXPANSION JOINT** METAL ELEVATION VARIES: VARIABLE ELEC **ELECTRICAL** VERTICAL **ENCLOSURE** VERTICAL GRAIN NORTH **EQUAL** NEGATIVE EACH WAY WIDE (DIMENSION) NOT IN CONTRACT EXC EXCAVATE (ED) WITH EXH **EXHAUST** NOT TO SCALE EXPOSED EXP WOOD EXPAN EXPANSION WIDE FLANGE (STEEL)

EXTERIOR

APPLICABLE CODES PROJECT TEAM 2001 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. **OWNER MANAGER** 2001 CALIFORNIA CODE (CBC), PART 2, TITLE 24 C.C.R.; **GELFAND PARTNERS ARCHITECTS** CONTRA COSTA COMMUNITY COLLEGE DISTRICT 450 GEARY STREET, SUITE 100 2001 ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; **500 COURT STREET** SAN FRANCISCO, CALIFORNIA 94102 2001 MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. MARTINEZ, CA 94553 PHONE: 415-346-4040 2001 PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; FAX: 415-346-4103 PHONE: 925-229-1000 FAX: 925-335-9697 2001 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. 2001 CALIFORNIA REFERENCED STANDARDS CODE. PART 12, TITLE 24 C.C.R. TITLE 19, C.C.R., STRUCTURAL ENGINEER PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS. 33 NEW MONTGOMERY STREET, SUITE 850 ADA CODE OF FEDERAL REGULATIONS SAN FRANCISCO, CA 94105 PHONE: 415-243-8400 **PROJECT SCOPE** FAX: 415-243-9165 MECHANICAL ENGINEER HEITZ ENGINEERING The Work of this Contract consists of modifications and additions to existing buildings at Diablo 6918 MERRYWOOD COURT Valley COllege, 321 Golf Club Road, Pleasant Hill, CA 94523 GRANITE BAY, CA 95746 PHONE: 916-773-8920 FAX: 916-789-1005 finishes, portions of exterior walls and storefront, portions of existing concrete slabs and curbs. bathroom fixtures, finishes and plumbing, HVAC systems and related piping, lighting and electrical panels, site grading for new concrete slab. New work includes new classrooms and offices, acoustical tile and gypsum board ceilings, toilet rooms and finishes including carpet, **ELECTRICAL ENGINEER** accessible hardware, new concrete slabs, pads & fence for mechanical equipment. General rehabilitation work at existing Planetarium Level includes demolition of interior walls WHM, INC ENGINEERING and finishes, hydraulic lift, projection dome, raised floor and seating, HVAC systems and related 1605 SCHOOL STREET piping, fighting and electrical panelsr. New work includes new accessible entry doors and MORAGA, CA 94566 coverings and wall base, fixed seating, HVAC system & lighting. PHONE: 925-376-2902 Structural scope of work includes structural support for new projection dome at the Planetarium and for new curtain wall at the Gound Level. FAX: 925-376-2904 3) Electrical scope of work includes augmentation of electrical service, new lighting, automatic fire alarm, information system and telephone system. 4) Mechanical scope of work includes new heating, ventilation, & air conditioning systems and **PROJECT DATA MATERIALS SYMBOLS** WALL TO BE DEMOLISHED GRID-LINE INDICATION TOTAL AREA OF EXISTING MUSEUM LEVEL: 5748 SF **EXISTING WALL TO REMAIN** TOTAL AREA OF EXISTING PLANETARIUM LEVEL: 805 SF [SEE WALL TYPE FOR RATING] TOTAL AREA OF NEW MUSEUM LEVEL: 5748 SF ROOM IDENTIFICATION - ROOM NAME [SEE WALL TYPE FOR RATING] TOTAL AREA OF NEW PLANETARIUM LEVEL: 805 SF C-101 - ROOM NUMBER EXISTING OCCUPANCY: B ROOM AREA [SQUARE FEET] NEW OCCUPANCY: B - ELEVATION NUMBER - ELEVATION SHEET DSA INFORMATION - ELEVATION ORIENTATION CONTRA COSTA COMMUNITY COLLEGE DISTRICT DSA FILE NUMBER: 7-C1 DSA APPLICATION NUMBER: 107986 - SECTION SHEET **DETAIL KEY** DATE ASSIGNED: 04-27-06 - DETAIL NUMBER - DETAIL SHEET **DEFERRED APPROVALS** - ELEVATION NUMBER - ELEVATION SHEET GLAZED ALUMINUM CURTAIN WALL & ALUMINUM FRAMED SLOPED GLAZING - WINDOWS W-09 + W-10 (A21)* REFER TO DOOR SCHEDULE ASTERISK INDICATES PANIC HARDWARE REFER TO WINDOW SCHEDULE -W06 REFER TO WALL TYPE SHEET **ALTERNATES** (K02) REFER TO CABINET SCHEDULE ALTERNATE #1 **WORK POINT** (OR CONTROL OR DATUM POINT) All Architectural, Structural, Mechanical, Plumbing and Electrical scope at the Planetarium Level except items MATCHLINE indicated as base bid SHEET KEYNOTE

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P-2.02 GROUND FLOOR PLUMBING PLAN P-2.03 SECOND FLOOR PLUMBING PLAN

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TITLE 24

T-24.1 TITLE 24 DOCUMENTION

E0.2 ELECTRICAL DETAILS

ELECTRICAL

E0.4 TITLE 24 E0.5 ELECTRICAL SITE PLAN E1.1 ELECTRICAL DEMOLITION PLANETARIUM, GROUND LEVEL E2.1 ELECTRICAL LIGHTING PLANETARIUM & GROUND LEVEL PLAN E3.1 ELECTRICAL POWER PLANETARIUM & GROUND LEVEL PLAN E4.1 ELECTRICAL FIRE ALARM PLAN E5.1 ELECTRICAL SIGNAL PLAN E5.2 ELECTRICAL FIRE ALARM NOTES DETAILS & LEGENDS

E5.3 ELECTRICAL FIRE ALARM RISER DIAGRAM AND CALCULATIONS

E0.1 ELECTRICAL DETAILS, ONE LINE DIAGRAM & PANEL SCHEDULES

E0.3 ELECTRICAL DETAILS AND DATA SYSTEM RISER DIAGRAM

Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax)

Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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DSA Application

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

Gelfand Partners

San Francisco. CA 94102

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	Drawing Record/Revision	
04/14/06	DSA SUBMISSION	
//		

MARK DATE DESCRIPTION

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

TITLE

SHEET

DSA SET

CAD FILE: .DWG

X-REF'S: .DWG

JOB NUMBER: 0312

ACCESSIBILITY REQUIREMENT NOTES

DOORS & HARDWARE (CHAPTER 10 & 11)

1. ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP. (SECTION 1133B.1.1)

2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH- PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. (SECTION 1004.3.1)

3. PANIC HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF U:B:C. STANDARD 10-4. THE ACTIVATING MEMBER SHALL BE MOUNTED AT A HEIGHT OF NOT LESS THAN 36 INCHES OR MORE THAN 44 INCHES ABOVE THE FLOOR.

4. WIDTH AND HEIGHTS: EVERY REQUIRED EXIT DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET 8 INCHES IN HEIGHT. WHEN INSTALLED IN EXIT DOORWAYS, EXIT DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE EXIT WAY IS NOT LESS THAN 32 INCHES. (SECTION 1004.6)

5. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL MEET THIS OPENING REQUIREMENT. REVOLVING DOORS SHALL NOT BE USED AS A REQUIRED ENTRANCE FOR THE PERSONS WITH DISABILITIES.

6. A SINGLE LEAF OF AN EXIT DOOR SHALL NOT EXCEED 4 FEET IN WIDTH. (SECTION 1004.7)

7. WHEN DOOR CLOSERS ARE PROVIDED MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED BY AUTHORITIES HAVING JURISDICTION, NOT TO EXCEED 15 POUNDS. (SECTION 1004.5.1)

8. DOOR CONSTRUCTION: THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10-INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. (SECTION 1004.8.1)

9. THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT, 1:2 MAX. SLOPE

HANDRAILS (CHAPTER 10)

1. HANDRAILS: STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE, AND EVERY STAIRWAY REQUIRED TO BE MORE THAN 88 INCHES IN WIDTH SHALL BE PROVIDED WITH NOT LESS THAN ONE INTERMEDIATE HANDRAIL FOR EACH 88 INCHES OF REQUIRED WIDTH. INTERMEDIATE HANDRAILS SHALL BE SPACED APPROXIMATELY EQUALLY ACROSS WITH THE ENTIRE WIDTH OF THE STAIRWAY. THE TOP OF HANDRAILS AND HANDRAIL EXTENSIONS SHALL NOT BE PLACED LESS THAN 34 INCHES NOR MORE THAN 38 INCHES ABOVE LANDINGS AND THE NOSING OF TREADS. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS AND AT LEAST ONE HANDRAIL SHALL EXTEND IN THE DIRECTION OF THE STAIR RUN NOT LESS THAN 12 INCHES BEYOND THE TOP RISER NOR LESS THAN 12 INCHES + TREAD WIDTH BEYOND THE BOTTOM RISER. ENDS SHALL BE RETURNED OR SHALL HAVE ROUNDED TERMINATIONS OR BENDS. ALL WELDS SHALL BE GROUND SMOOTH.

WALKS, RAMPS AND SIDEWALKS (CHAPTER 11B)

1. CONTINUOUS SURFACE: WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH AND SHALL BE A MINIMUM OF 48 INCHES IN WIDTH. SURFACES SHALL BE SLIP RESISTANT AS FOLLOWS: (SECTION 1133B.7.1)

1.1 SLOPES LESS THAN 6 PERCENT: SURFACES WITH A SLOPE OF LESS THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS DESCRIBED FOR A MEDIUM SALTED FINISH.

1.2 SLOPES 6 PERCENT OR GREATER: SURFACES WITH A SLOPE OF 6 PERCENT GRADIENT SHALL BE SLIP-RESISTANT, WITH A HEAVY BROOM FINISH.

1.3 SURFACE CROSS SLOPES: SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT EXCEPT WHEN THE ENFORCING AGENCY FINDS THAT DUE TO LOCAL CONDITIONS IT CREATES AN UNREASONABLE HARDSHIP, THE CROSS SLOPE SHALL BE INCREASED TO A MAXIMUM OF 1/2 INCH PER FOOT FOR DISTANCES NOT TO EXCEED 20 FEET.

2.1 HANDRAILS ARE REQUIRED ON RAMPS THAT PROVIDE ACCESS IF THE SLOPE EXCEEDS 1 FOOT RISE IN 20 FEET OF HORIZONTAL RUN.

2.2 HANDRAILS: RAMPS SHALL HAVE HANDRAILS THE FULL LENGTH OF THE RAMP RUN, PLUS EXTENSIONS ON BOTH SIDES OF RAMP. TOP OF GRIPPING SURFACE MUST BE BETWEEN 34" AND 38" AFF. EXTEND HANDRAIL 12" BEYOND THE TOP AND BOTTOM OF THE RAMP RUN.

3. CHANGES IN LEVEL: ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS. (SECTION 1133B.7.4) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS COMPLY WITH THESE REQUIREMENTS AND CORRECT ALL SUCH DISCREPANCIES ALONG THE P.O.T.

4. FOR ADDITIONAL INFORMATION REFER TO CBC CHAPTER 11 SECTIONS 1127B, 1133B, 1134B.

ACCESSIBLE SIGNAGE CRITERIA (CHAPTER 11)

1. INTERNATIONAL SYMBOL OF ACCESSIBILITY: THE FOLLOWING ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY

A. ACCESSIBLE PARKING SPACES.

B. ACCESSIBLE TOILET AND BATHING FACILITIES

C. ALL MAIN ENTRY DOORS.

2. OTHER SIGNS: INACCESSIBLE BUILDING ENTRANCES, INACCESSIBLE PUBLIC TOILETS AND BATHING FACILITIES, AND ELEVATORS NOT ON AN ACCESSIBLE ROUTE SHALL BE PROVIDED WITH DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST SIMILAR ACCESSIBLE ELEMENT.

IN ASSEMBLY AREAS, A SIGN NOTIFYING THE GENERAL PUBLIC OF THE AVAILABILITY OF ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED AT TICKET OFFICES OR SIMILAR LOCATIONS. SEE 3C/A501.3

EACH DOOR TO AN EXIT STAIRWAY SHALL HAVE A TACTILE SIGN, INCLUDING RAISED LETTERS AND BRAILLE. STATING "EXIT" AND SHALL COMPLY WITH CABO/ANSI A117.1. SEE 3B/A501.3

AT EXITS AND ELEVATORS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNS SHALL BE INSTALLED INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS, REFER TO SIGNAGE SCHEDULE SHTS A603.1 AND A603.2.

3. DESIGN: THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN THESE BUILDING STANDARDS AND AS SPECIFICALLY REQUIRED IN THESE NOTES:

4. COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.

EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE SPECIAL SIGNS AND IDENTIFICATION NECESSARY TO COMPLEMENT DECOR OR UNIQUE DESIGN WHEN IT IS DETERMINED THAT SUCH SIGNS AND IDENTIFICATION PROVIDE ADEQUATE DIRECTION TO PERSONS WITH DISABILITIES. AGENCY APPROVAL FOR ANY EXCEPTION SHOULD BE OBTAINED PRIOR TO ANY FABRICATION.

5. BRAILLE SYMBOLS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH ABOVE THE BACKGROUND, AND 3/8" VERTICAL GAP BETWEEN BRAILLE BELOW AND TEXT ABOVE, PER THE LOPEZ SETTLEMENT, AND ROUNDED OR DOMED.

6. PROPORTIONS: LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO- HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.

7. CHARACTER HEIGHT: CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER-CASE "X". LOWERCASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED 80" MINIMUM ABOVE THE FINISH FLOOR, THE MINIMUM CHARACTER HEIGHT SHALL BE 3 INCHES.

8. CONTRAST AND FINISH: CHARACTER AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, BY 70 % EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. THE (FINISH OF) CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NONGLARE FINISH.

9. RAISED CHARACTERS AND PICTORIAL SYMBOL SIGNS: WHEN RAISED CHARACTERS OR SYMBOLS ARE USED. THEY SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

A. LETTER TYPE: LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32 INCH MINIMUM AND SHALL BE SANS-SERIF UPPERCASE. CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.

B. SYMBOL SIZE. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8 INCH HIGH TO A MAXIMUM HEIGHT OF 2 INCHES.

C. PICTORIAL SYMBOL SIGNS (PICTOGRAMS NONGEOMETRIC): PICTORIAL SYMBOL

SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT.

10. ENTRANCE SIGNS: ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.

GENERAL NOTES

1. WORK SHOWN IS NEW UNLESS DESIGNATED EXISTING: (E).

2. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF APPLICABLE EDITIONS OF ALL LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES INCLUDING BUT NOT LIMITED TO BUILDING CODES, ELECTRICAL CODES, PLUMBING CODES, MECHANICAL CODES, ENERGY CODES, FIRE CODES, SAFETY CODES AND DISABLED ACCESS CODES.

3. CONTRACTOR SHALL SUBMIT TO THE BUILDING DEPT. EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE CONFORMING TO SECTION 3800 OF THE CALIFORNIA LABOR

4. ALL PERMITS OTHER THAN THE BUILDING PERMIT SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

5. THE CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON THE DRAWINGS. ALL DISCREPANCIES SHALL BE REPORTED OT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK

6. IN THE EVENT CERTAIN FEATURES OF THE (N) CONSTRUCTION ARE NOT FULLY SHOWN IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.

7. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE PROJECT SITE BY THE CONTRACTOR AND EACH TRADE BEFORE THE WORK BEGINS. DISCREPANCIES WITH THE CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE CONSTRUCTION BEGINS.

8. PROTECTION OF EXISTING AREAS TO REMAIN SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

9. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THE ORIGINAL CONSTRUCTION DRAWINGS ARE NOT PART OF THESE BID DOCUMENTS AND DO NOT WARRENT EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ALL EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

10. GELFAND PARTNERS ARCHITECTS HAS PREPARED THESE DOCUMENTS ONLY FOR THE IMPROVEMENTS SPECIFIED, DETAILED, INDICATED, OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL, OR EQUIPMENT NOTED, INDICATED, OR SHOWN AS "EXISTING" OR AS "PROVIDED BY OTHERS".

11. GELFAND PARTNERS ARCHITECTS HAS NEITHER CHECKED NOR VERIFIED THE STRUCTURAL INTEGRITY, QUALITY OF CONSTRUCTION, DESIGN OF THE EXISTING CONSTRUCTION.

12. EXISTING UTILITIES: THE CONTRACTOR SHALL VERIFY ON SITE THE LOCATION AND DEPTH (ELEVATION) OF ALL EXISTING UTILITIES AND SERVICES BEFORE PERFORMING ANY **EXCAVATION WORK.**

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING, REGARD FOR PROPER INSTALLATION OF MATERIALS AND EQUIPMENT, AND FOR PROTECTION OF ADJACENT CONSTRUCTION.

14. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT OR STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

15. LEAD AND ASBESTOS MATERIALS ARE PRESENT ON SITE. ALL WORK RELATING TO LEAD & ASBESTOS IS TO BE DONE IN ACCORDANCE WITH THE LEAD & ASBESTOS ABATEMENT SECTIONS OF THE SPECIFICATIONS PROVIDED BY THE OWNERS HAZARDOUS MATERIAL MANUAL. CONTRACTOR SHALL NOTIFY OWNER UPON DISCOVERY OF LEAD OR ASBESTOS

16. DO NOT SCALE DRAWINGS, USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED. CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, UNLESS OTHERWISE NOTES, ALL DIMENSIONS ARE TAKEN FROM THE FACE OF FINISH (F.O.F.)

17. NO DEVIATION FROM THE APPROVED DRAWINGS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT.

18. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES. SPECIFICATIONS, AND THE DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

19. CONTRACTOR SHALL OBT-∃AIN AND MAINTAIN A TRASH BIN IN AN AREA DESIGNATED BY THE OWNER FOR THE RETENTION OF ALL CONSTRUCTION DEBRIS AND ITS PERIODIC REMOVAL AS REQUIRED.

20. THE CONTRACTOR SHALL MAINTAIN SANITARY TOILET FACILITIES DURING CONSTRUCTION.

21. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REMEDY ANY DEFECTS IN THE WORK AND TO PAY FOR ANY DAMAGE TO OTHER WORK OR PROPERTY RESULTING FROM SAID DEFECT WHICH APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE ARCHITECT, UNLESS A LONGER PERIOD OF TIME IS EITHER SPECIFIED BY THE OWNER OR PRODUCT MANUFACTURER'S WARRANTIES.

22. PROJECT INSPECTOR, TESTING LAB, ADDENDA, CHANGE ORDERS AND SUBSTITUTIONS REQUIRE D.S.A. APPROVAL.

23. CONTRACTOR TO REMOVE ALL DEBRIS FROM DEMOLITION AND NEW WORK AND DISPOSE PER CURRENT ENVIRONMENTAL LANDFILL REQUIREMENTS. COPIES OF DISPOSAL RECORDS TO BE MAINTAINED AND SUBMITTED TO CLIENTS PROJECT MANAGER.

24. ALL ITEMS DESIGNATED 'NIC' WILL BE PROVIDED UNDER A SEPARATE CONTRACT AND WILL NOT BE PART OF THIS APPROVAL.

ADMINISTRATIVE NOTES

Chapter 4, Part 1, Title 24, C.C.R. (Partial Listing Only)

1. A COPY OF PARTS 1 AND 2, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES

2. ALL CHANGE ORDERS AND ADDENDA SHALL BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.

3. ALL TESTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T&I

 TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-355 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.

5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER

6. INSPECTOR-OF-RECORD SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.

SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.

CONTRACTOR, INSPECTOR, ARCHITECT AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.

THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(a) AND 4-341, PART 1, TITLE 24.

10. THE CONTRACTOR SHALL PERFORM ITS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.

11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE SCHOOL BUILDINGS IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24. C.C.R., A CHANGE ORDER DETAILING AND DSA BEFORE PROCEEDING WITH THE WORK

ARCHITECTS





Consultants

STRUCTURAL:

Dasse Design 33 New Montgomery San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

MECHANICAL/ PLUMBING:

Heitz Engineering 6918 Merrywood Court Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax)

WHM Engineering

Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

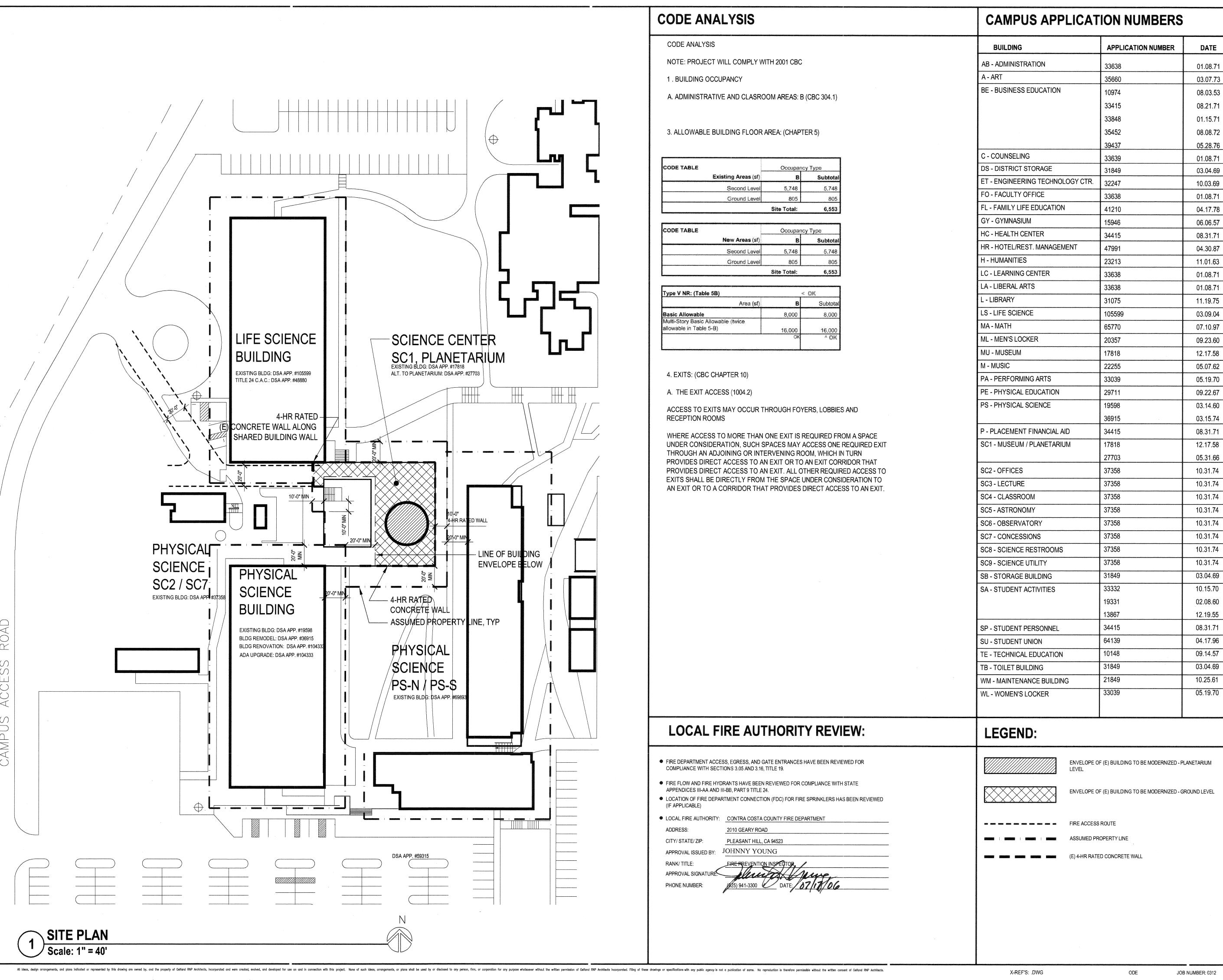
321 Golf Club Road

Renovation

Pleasant Hill, CA 94523

GENERAL NOTES &

ACCESS ANALYSIS



Architect

Gelfand **Partners**

ARCHITECTS



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Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

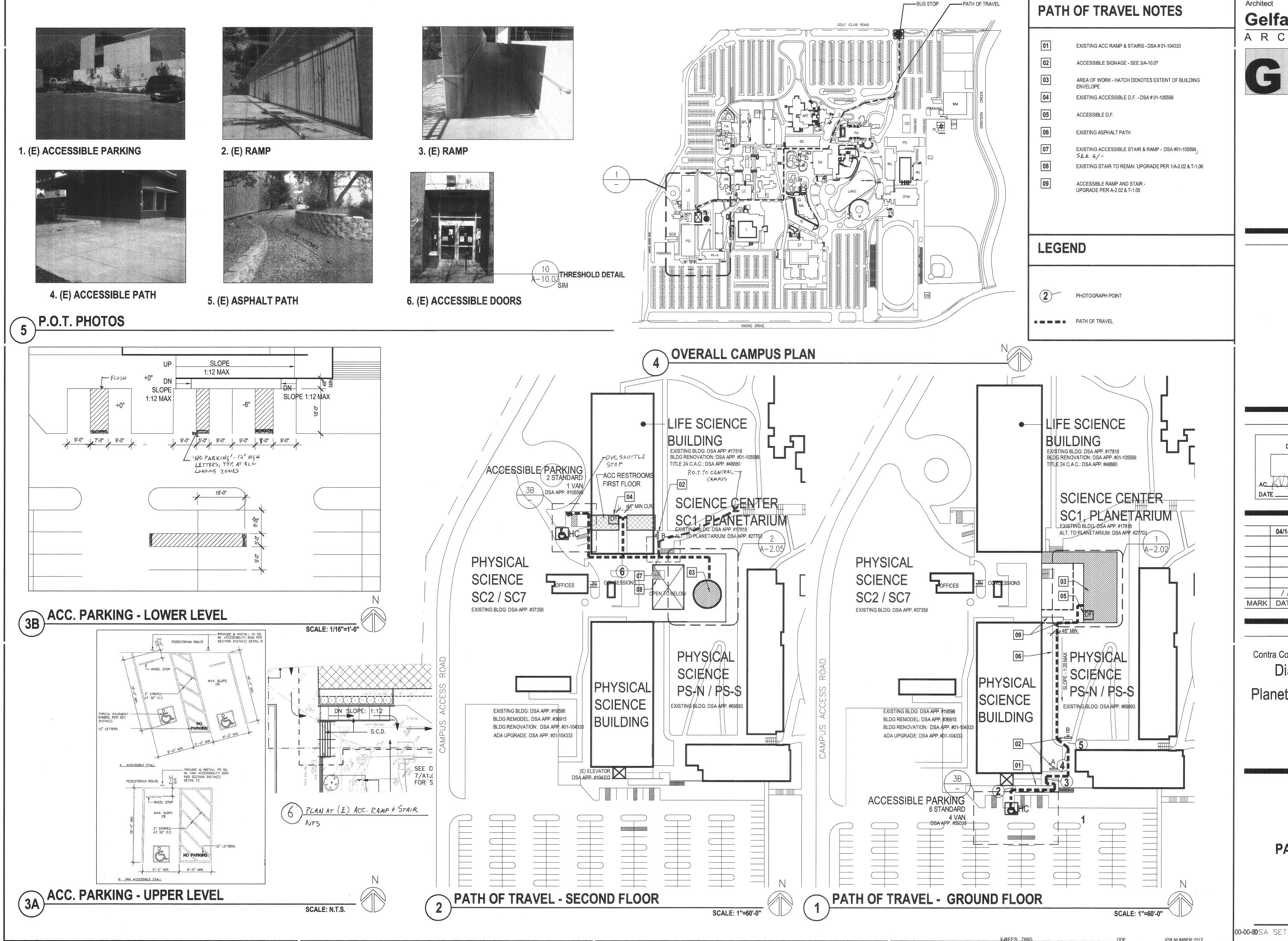
SITE PLAN

CODE ANALYSIS

BID SET

JOB NUMBER: 0312

06-19-06



Architect

Gelfand **Partners**

ARCHITECTS



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ELECTRICAL:

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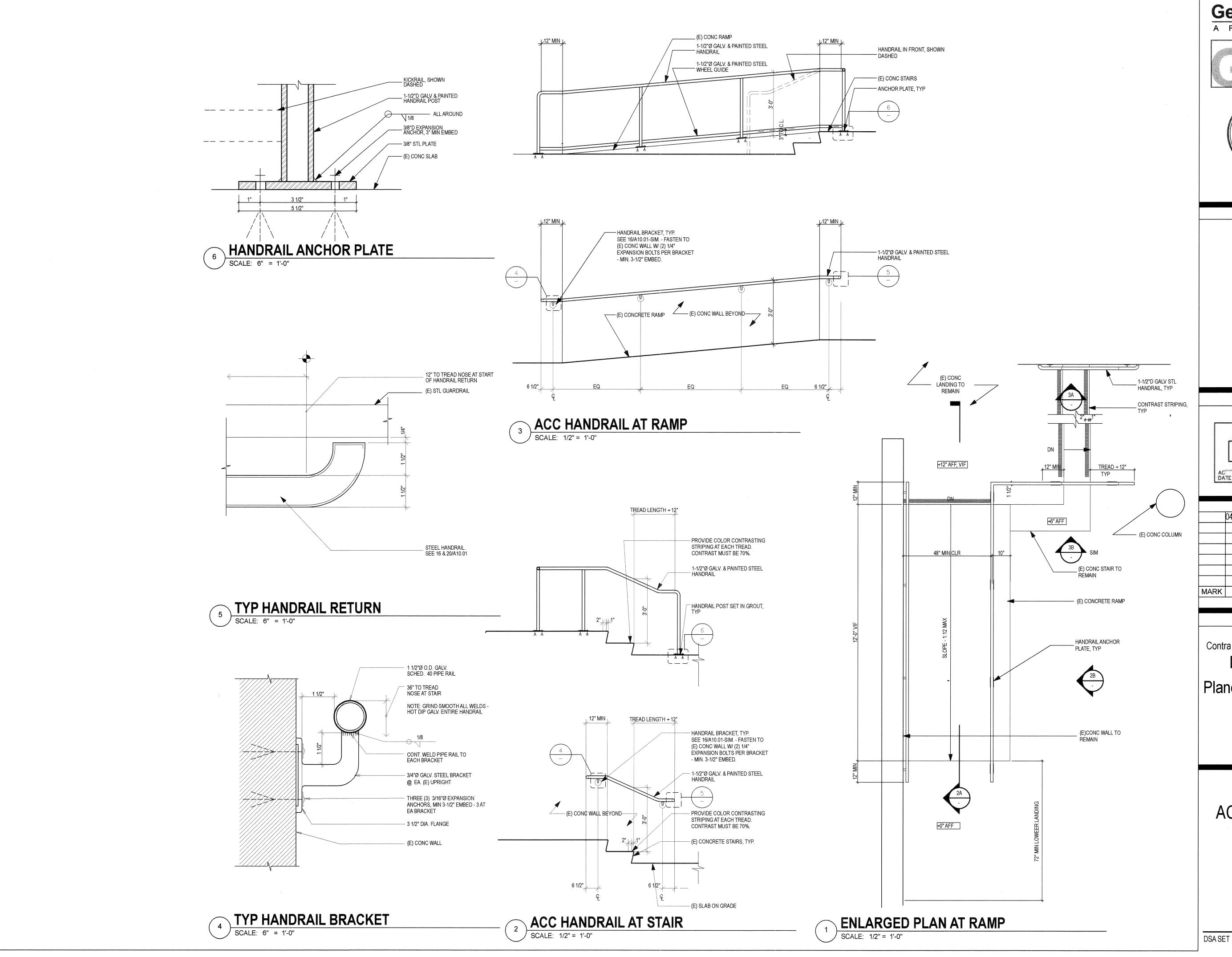
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> Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

SITE PLAN **PATH OF TRAVEL**

04-1<u>4 **əf**06</u>



ARCHITECTS 450 Geary Street, Suite 100 San Francisco, CA 94102 Tel. 415.346.4040 Fax. 415.346.4103 www.gelfand-partners.com



Consultants

STRUCTURAL: Dasse Design 33 New Montgomery Suite 850

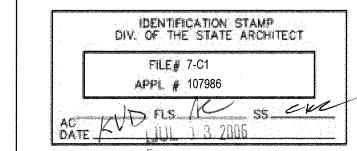
San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING:**

199925 N. Half Moon Drive

Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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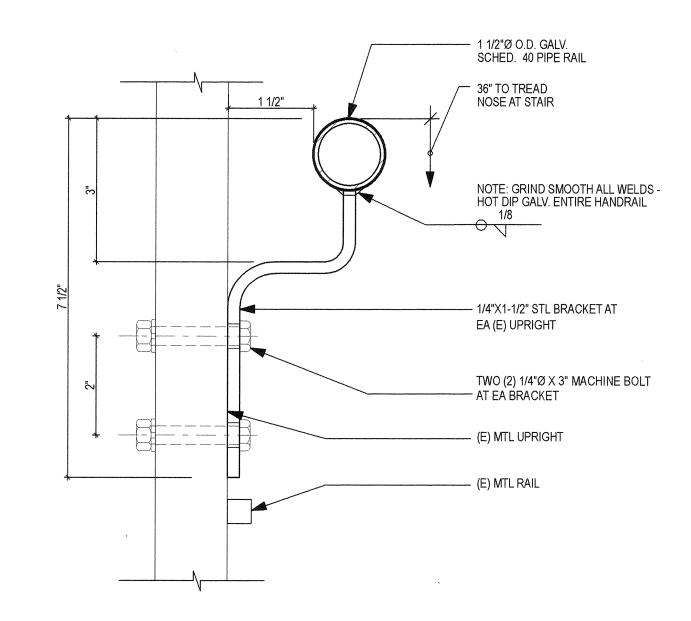
Planetarium & Classroom Upgrade

321 Golf Club Road

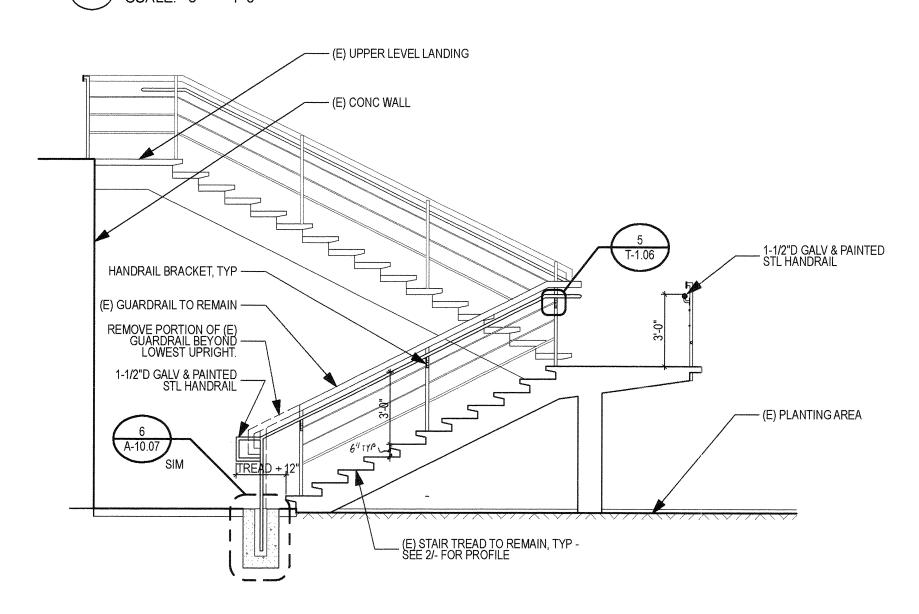
Pleasant Hill, CA 94523

ACCESSIBLE RAMP **DETAILS**

T-1.05



STAIR HANDRAIL BRACKET



ENLARGED SECTION AT STAIR SCALE: 1/4" = 1'-0"

- 1 1/2" Ø GALVANIZED & PAINTED STL

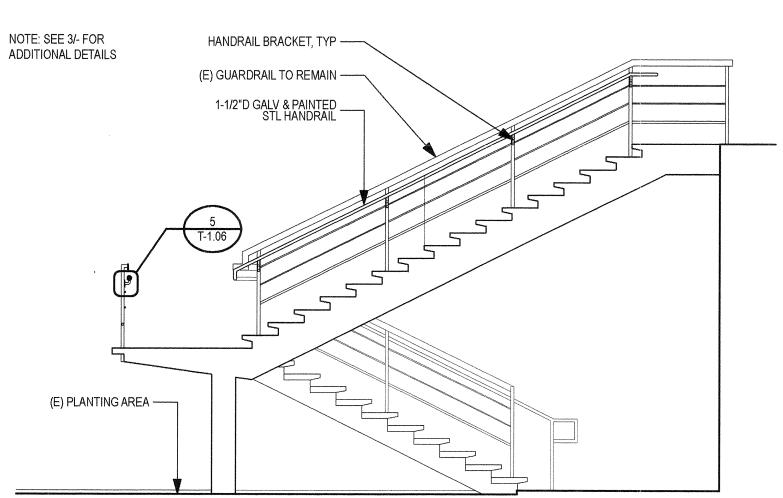
(E) CONC SLAB

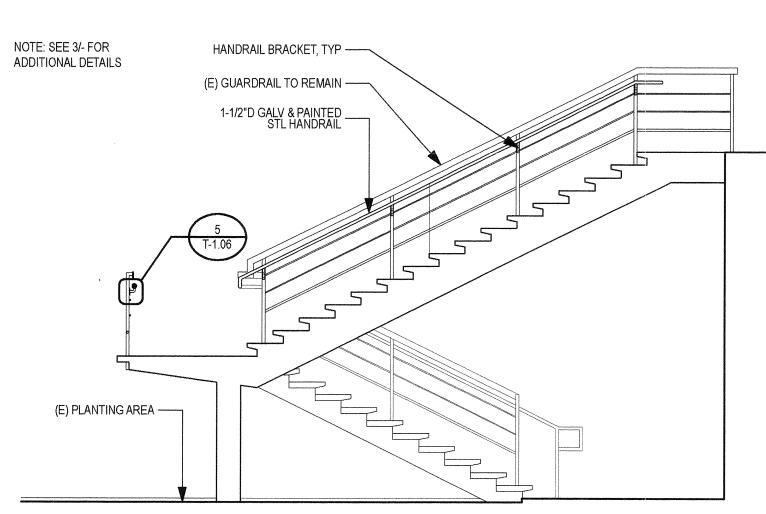
- C.I.P. CONCRETE FOOTING

1'-6"

SCALE: 3/4" = 1'-0"

HANDRAIL POST ANCHORAGE





ENLARGED SECTION AT STAIR TO SOUTH

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





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Consultants STRUCTURAL:

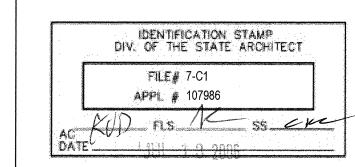
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Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax) ELECTRICAL:

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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> 321 Golf Club Road Pleasant Hill, CA 94523

STAIR DETAILS

T-1.06

ENLARGED STAIR PLAN

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

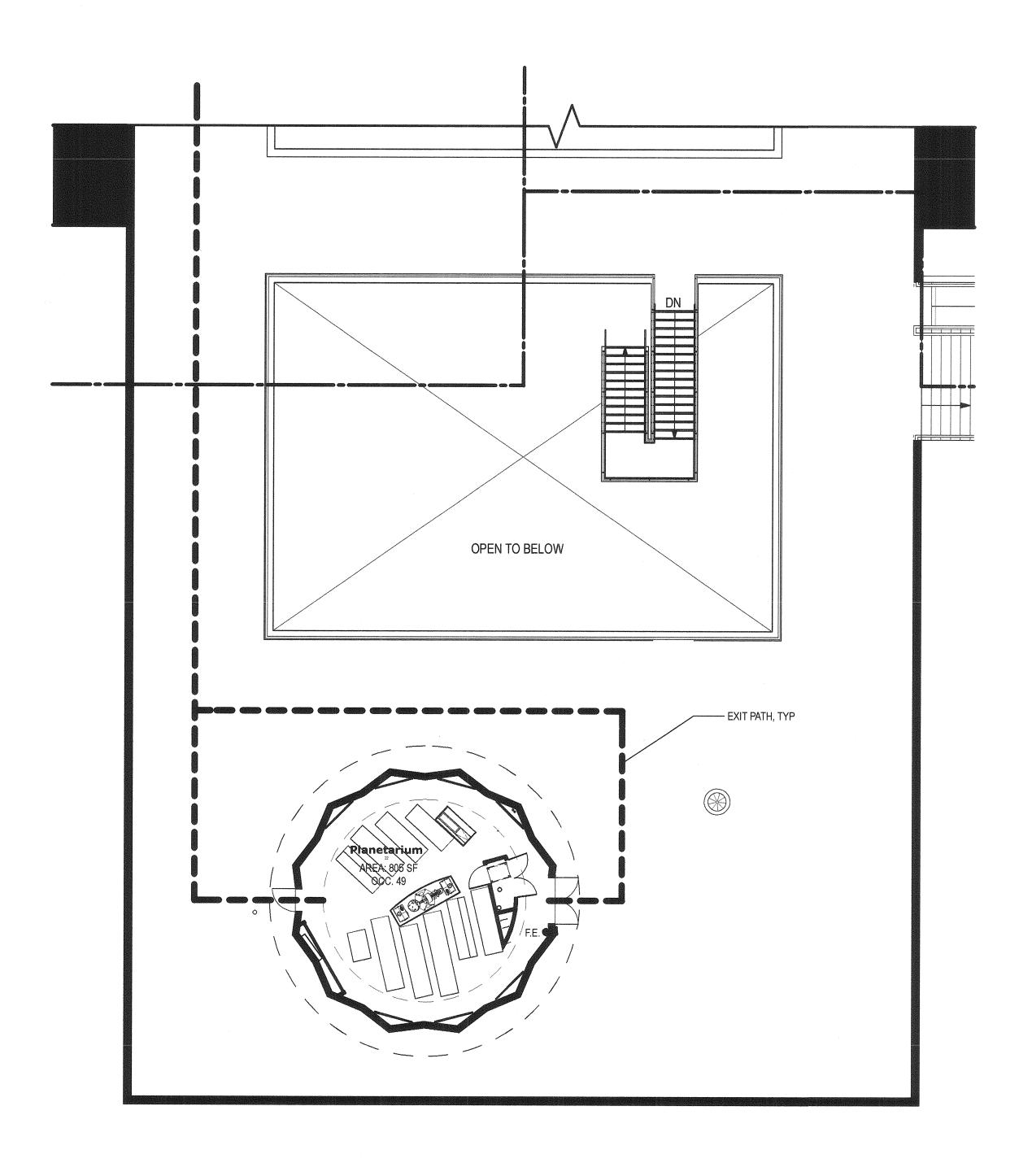
(E) MTL HANDRAIL TO REMAIN, TYP

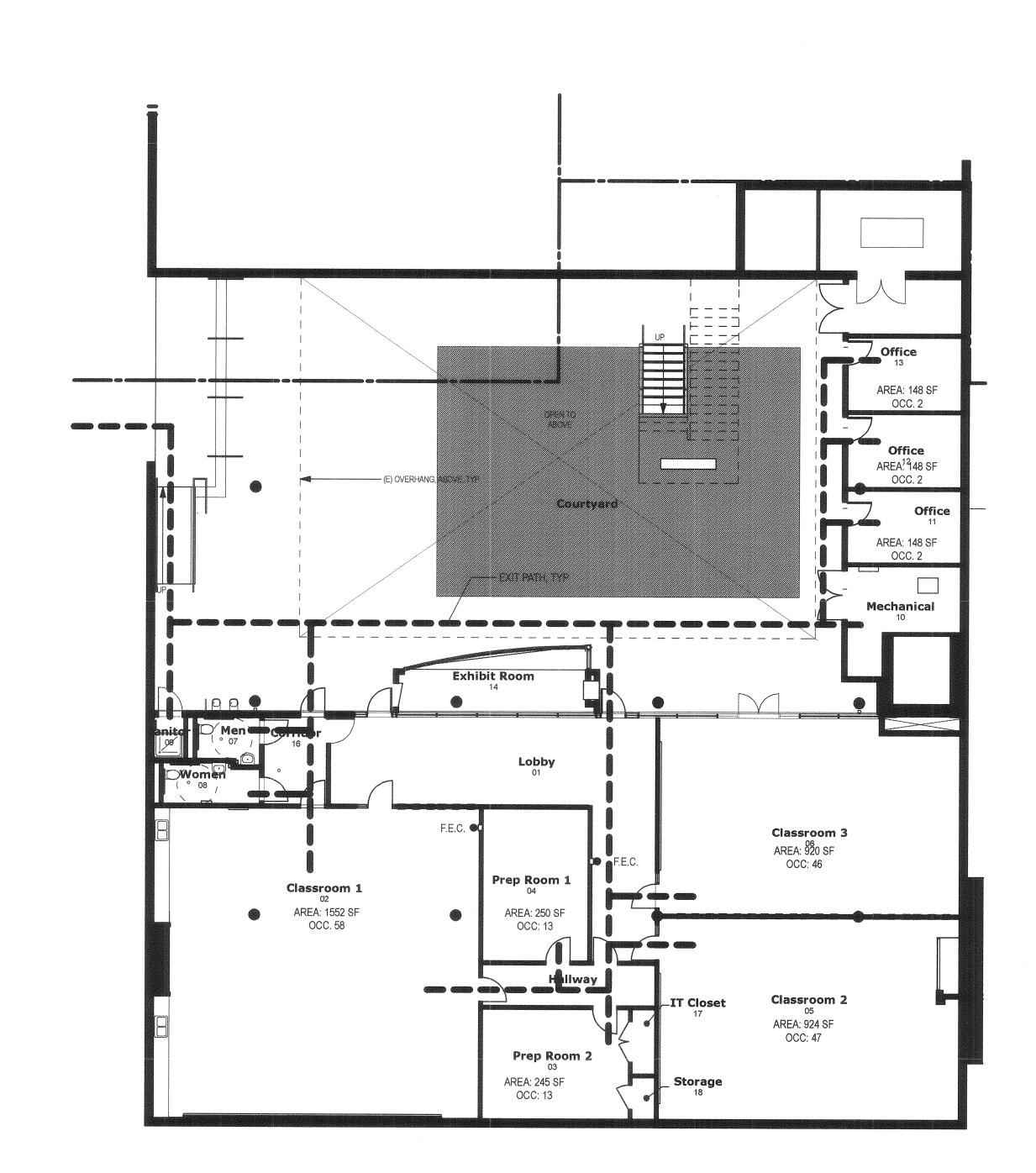
MTL HANDRAIL BRACKET, ONE _ AT EACH (E) UPRIGHT, TYP

(E) MTL HANDRAIL UPRIGHT ___ TO REMAIN, TYP

CONTRAST STRIPING, TYP -

DSA SET





SECOND FLOOR EXITING PLAN
SCALE: 1/8" = 1'-0"

1 GROUND FLOOR EXITING PLAN
SCALE: 1/8" = 1'-0"

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Tel. 415.346.4040

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ARCHITECTS



Consultants

STRUCTURAL:

Dasse Design 33 New Montgomery Suite 850 San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

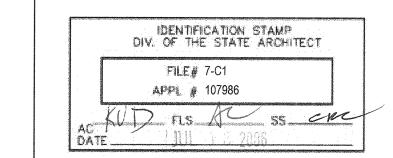
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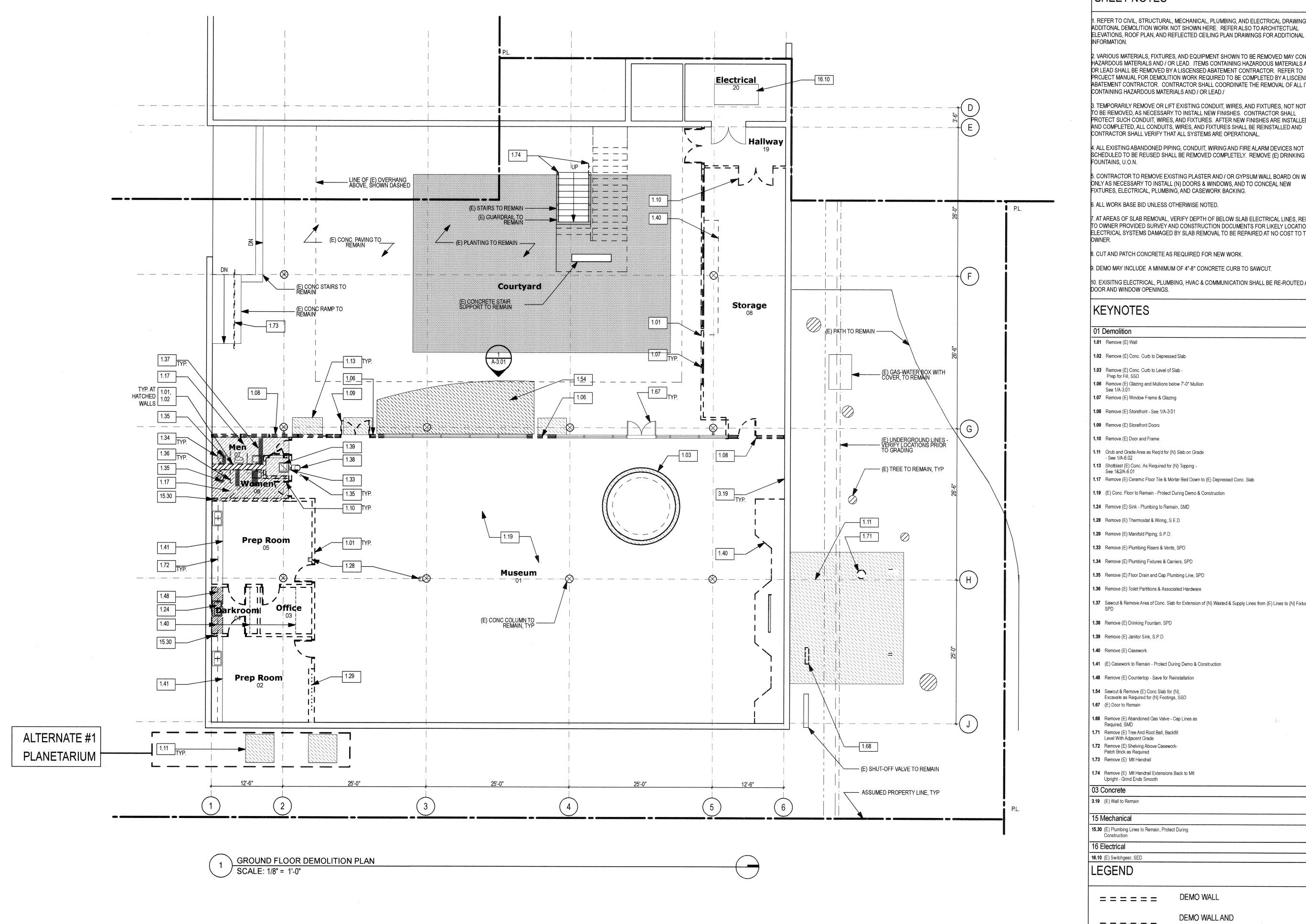
Planetarium & Classroom Upgrade

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EXITING PLANS

T-1.07

DSA SET



SHEET NOTES

I. REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITONAL DEMOLITION WORK NOT SHOWN HERE. REFERALSO TO ARCHITECTUAL ELEVATIONS, ROOF PLAN, AND REFLECTED CEILING PLAN DRAWINGS FOR ADDITIONAL

2. VARIOUS MATERIALS, FIXTURES, AND EQUIPMENT SHOWN TO BE REMOVED MAY CONTAIN HAZARDOUS MATERIALS AND / OR LEAD. ITEMS CONTAINING HAZARDOUS MATERIALS AND / PROJECT MANUAL FOR DEMOLITION WORK REQUIRED TO BE COMPLETED BY A LISCENSED ABATEMENT CONTRACTOR. CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL ITEMS CONTAINING HAZARDOUS MATERIALS AND / OR LEAD./

TEMPORARILY REMOVE OR LIFT EXISTING CONDUIT, WIRES, AND FIXTURES, NOT NOTED TO BE REMOVED, AS NECESSARY TO INSTALL NEW FINISHES. CONTRACTOR SHALL PROTECT SUCH CONDUIT, WIRES, AND FIXTURES. AFTER NEW FINISHES ARE INSTALLED AND COMPLETED, ALL CONDUITS, WIRES, AND FIXTURES SHALL BE REINSTALLED AND CONTRACTOR SHALL VERIFY THAT ALL SYSTEMS ARE OPERATIONAL.

SCHEDULED TO BE REUSED SHALL BE REMOVED COMPLETELY. REMOVE (E) DRINKING

5. CONTRACTOR TO REMOVE EXISTING PLASTER AND / OR GYPSUM WALL BOARD ON WALLS ONLY AS NECESSARY TO INSTALL (N) DOORS & WINDOWS, AND TO CONCEAL NEW FIXTURES, ELECTRICAL, PLUMBING, AND CASEWORK BACKING.

ALL WORK BASE BID UNLESS OTHERWISE NOTED.

AT AREAS OF SLAB REMOVAL, VERIFY DEPTH OF BELOW SLAB ELECTRICAL LINES, REFER OWNER PROVIDED SURVEY AND CONSTRUCTION DOCUMENTS FOR LIKELY LOCATIONS. LECTRICAL SYSTEMS DAMAGED BY SLAB REMOVAL TO BE REPAIRED AT NO COST TO THE

. CUT AND PATCH CONCRETE AS REQUIRED FOR NEW WORK.

9. DEMO MAY INCLUDE A MINIMUM OF 4"-8" CONCRETE CURB TO SAWCUT.

0. EXISITNG ELECTRICAL, PLUMBING, HVAC & COMMUNICATION SHALL BE RE-ROUTED AT DOOR AND WINDOW OPENINGS.

KEYNOTES

01 Demolition

- 1.01 Remove (E) Wall
- 1.02 Remove (E) Conc. Curb to Depressed Slab
- 1.03 Remove (E) Conc. Curb to Level of Slab -
- Prep for Fill, SSD 1.06 Remove (E) Glazing and Mullions below 7'-0" Mullion
- See 1/A-3.01
- **1.08** Remove (E) Storefront See 1/A-3.01
- 1.09 Remove (E) Storefront Doors
- 1.10 Remove (E) Door and Frame
- 1.11 Grub and Grade Area as Req'd for (N) Slab on Grade
- See 1/A-6.02 1.13 Shotblast (E) Conc. As Required for (N) Topping -
- 1.17 Remove (E) Ceramic Floor Tile & Mortar Bed Down to (E) Depressed Conc. Slab
- 1.19 (E) Conc. Floor to Remain Protect During Demo & Construction
- 1.24 Remove (E) Sink Plumbing to Remain, SMD
- 1.29 Remove (E) Manifold Piping, S.P.D.
- 1.33 Remove (E) Plumbing Risers & Vents, SPD
- 1.34 Remove (E) Plumbing Fixtures & Carriers, SPD
- 1.35 Remove (E) Floor Drain and Cap Plumbing Line, SPD
- 1.36 Remove (E) Toilet Partitions & Associated Hardware
- 1.37 Sawcut & Remove Area of Conc. Slab for Extension of (N) Wasted & Supply Lines from (E) Lines to (N) Fixtures,
- 1.38 Remove (E) Drinking Fountain, SPD
- 1.39 Remove (E) Janitor Sink, S.P.D.
- 1.41 (E) Casework to Remain Protect During Demo & Construction
- 1.48 Remove (E) Countertop Save for Reinstallation
- 1.54 Sawcut & Remove (E) Conc Slab for (N), Excavate as Required for (N) Footings, SSD
- 1.67 (E) Door to Remain
- 1.68 Remove (E) Abandoned Gas Valve Cap Lines as Required, SMD
- Level With Adjacent Grade 1.72 Remove (E) Shelving Above Casework-
- Patch Brick as Required
- 1.74 Remove (E) Mtl Handrail Extensions Back to Mtl

3.19 (E) Wall to Remain

15.30 (E) Plumbing Lines to Remain, Protect During Construction

16 Electrical

16.10 (E) Switchgear, SED

LEGEND

DEMO WALL

DEMO WALL AND CONCRETE CURB

MISCELLANEOUS DEMO



DEMO SURFACE EXISTING WALL

Gelfand Partners

ARCHITECTS



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Consultants

STRUCTURAL: Dasse Design 33 New Montgomery

San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

MECHANICAL/ PLUMBING:

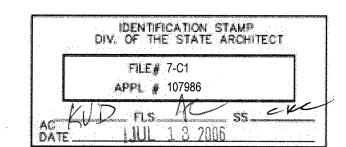
Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

> WHM Engineering 1605 School Street Moraga, CA 94556

(925)376-2902(Tel.)/(925)376-2904 (Fax)

ELECTRICAL:

DSA Application



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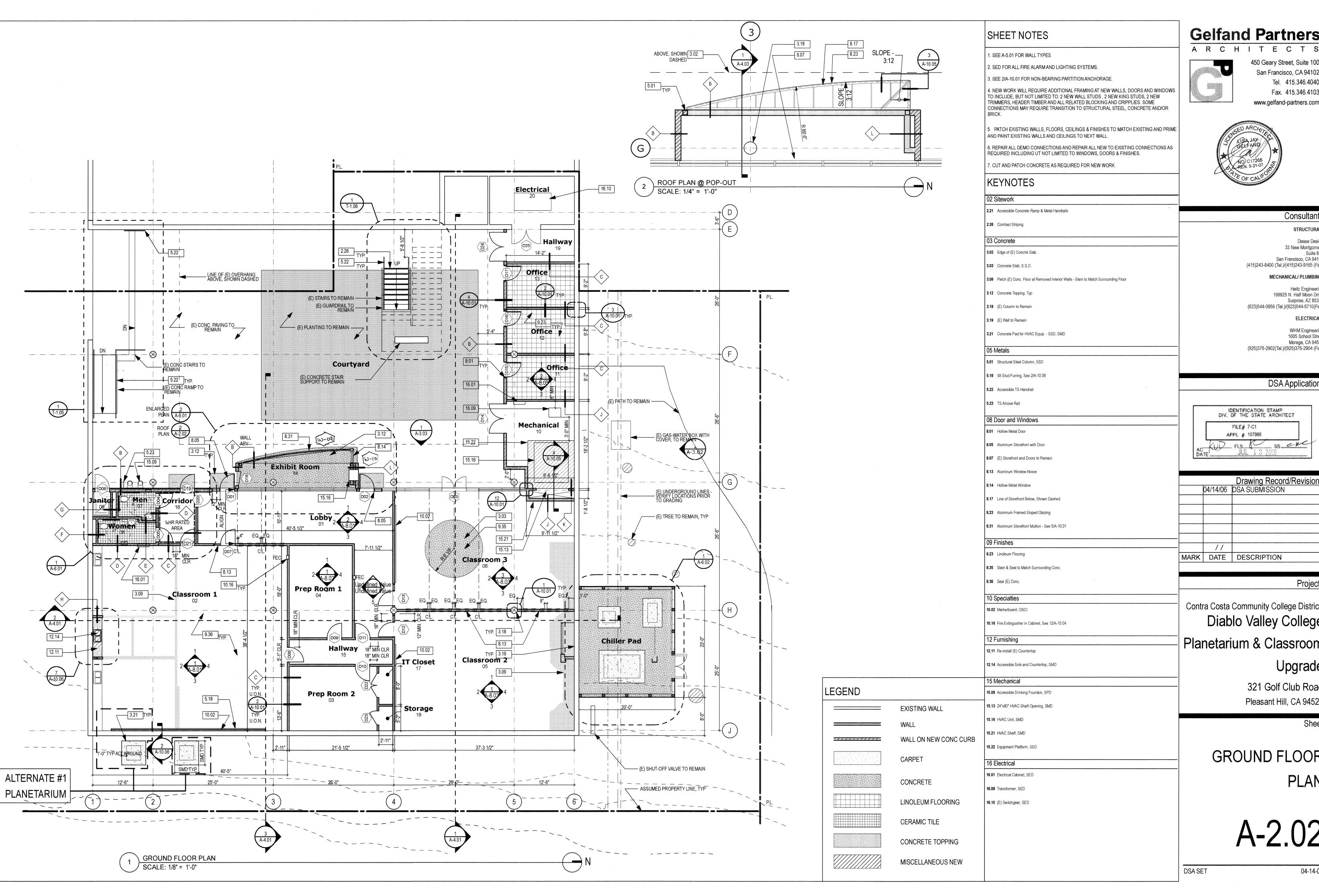
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

GROUND FLOOR **DEMOLITION PLAN**

DSA SET





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Consultants STRUCTURAL: Dasse Design

33 New Montgomery San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING:** Heitz Engineering

199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax) ELECTRICAL:

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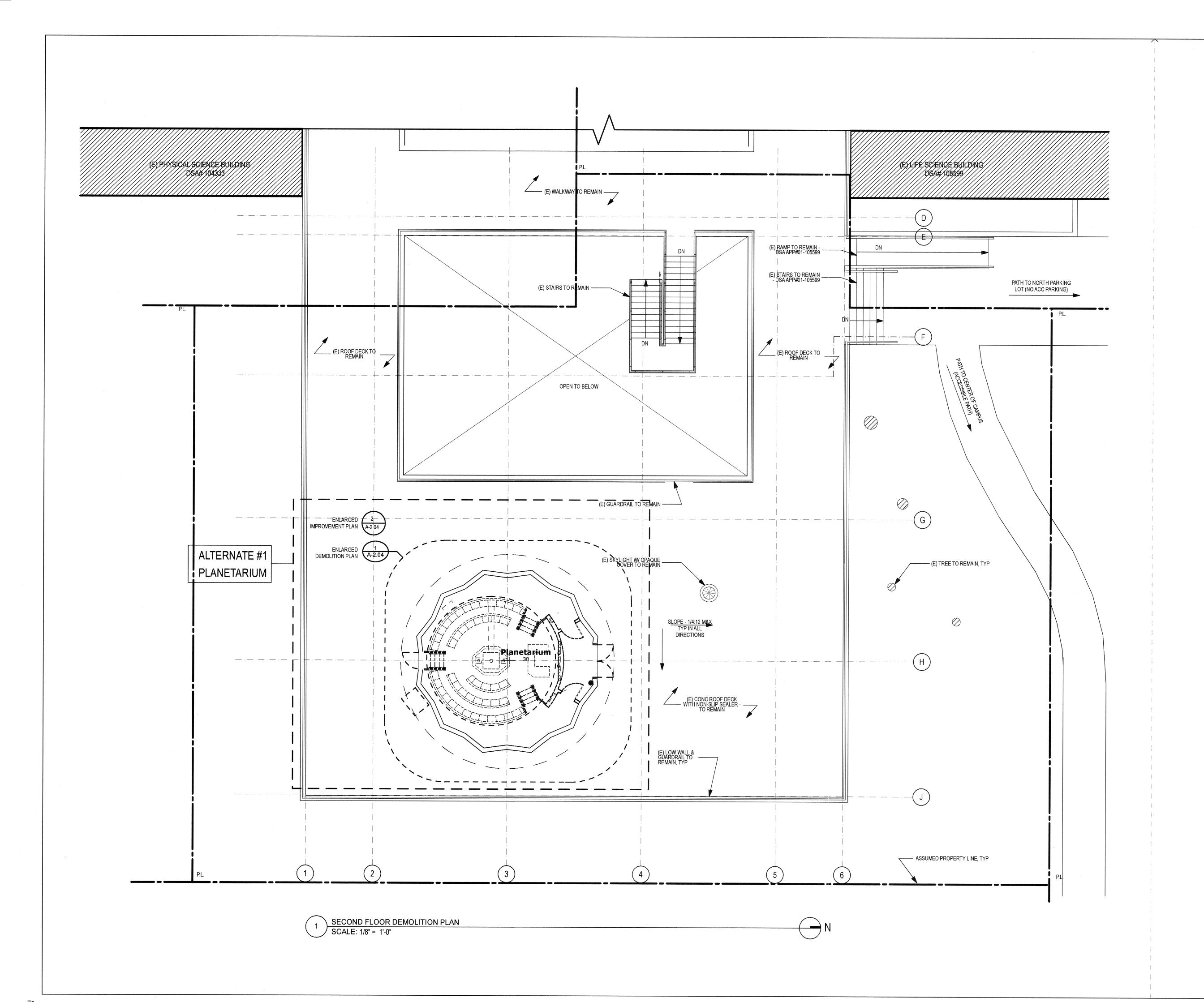
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GROUND FLOOR PLAN



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APPL # 107986

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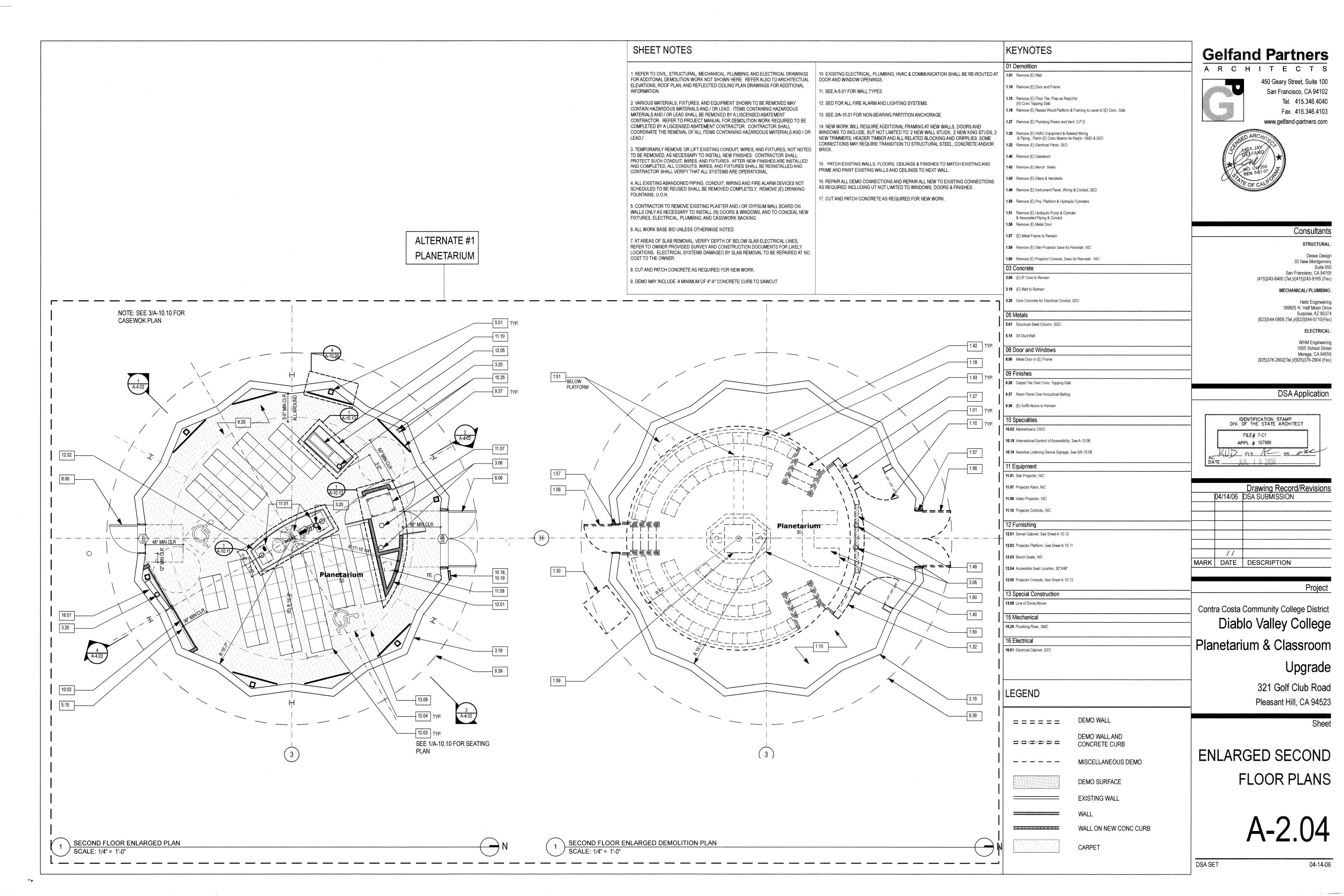
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Diablo Valley College
Planetarium & Classroom
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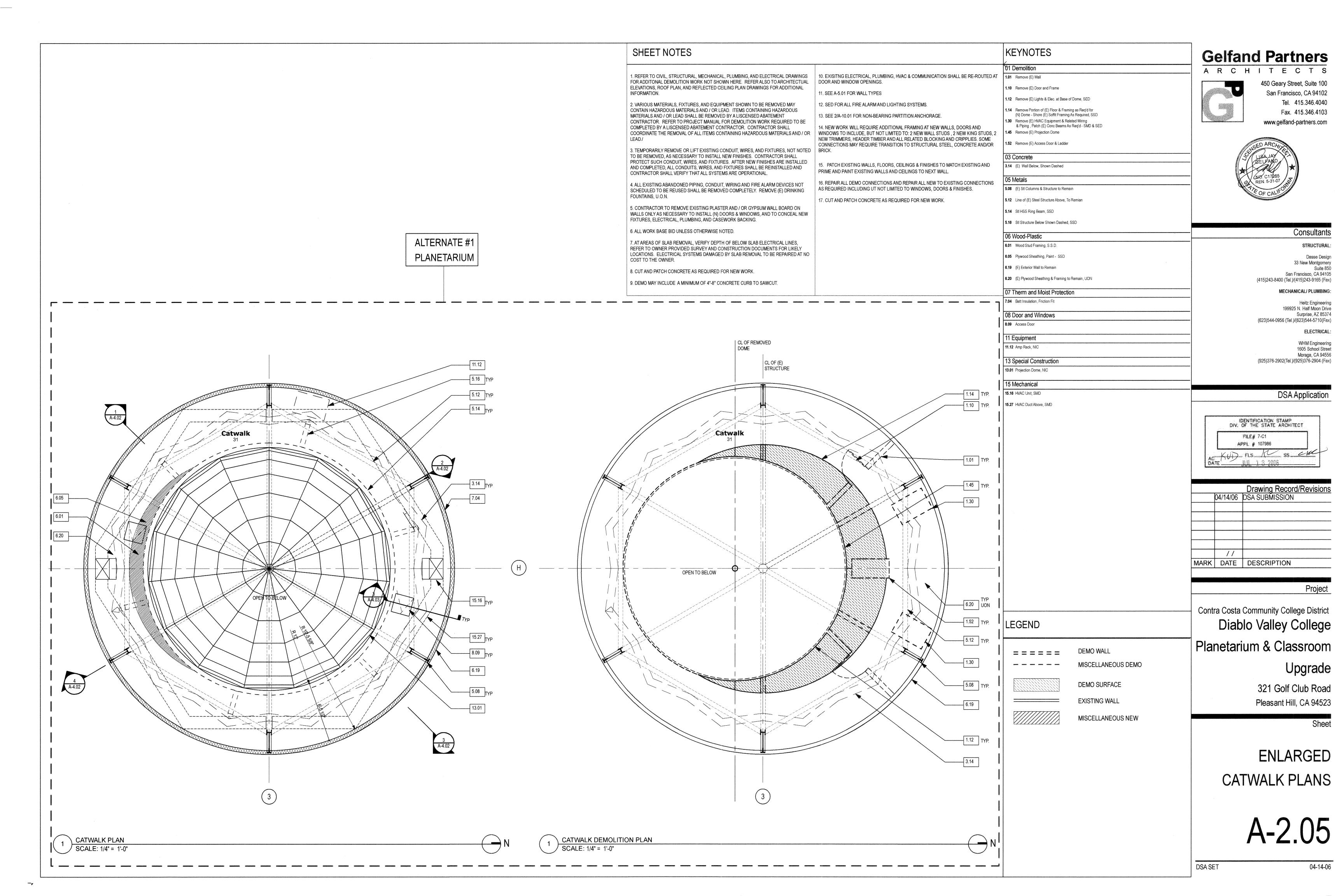
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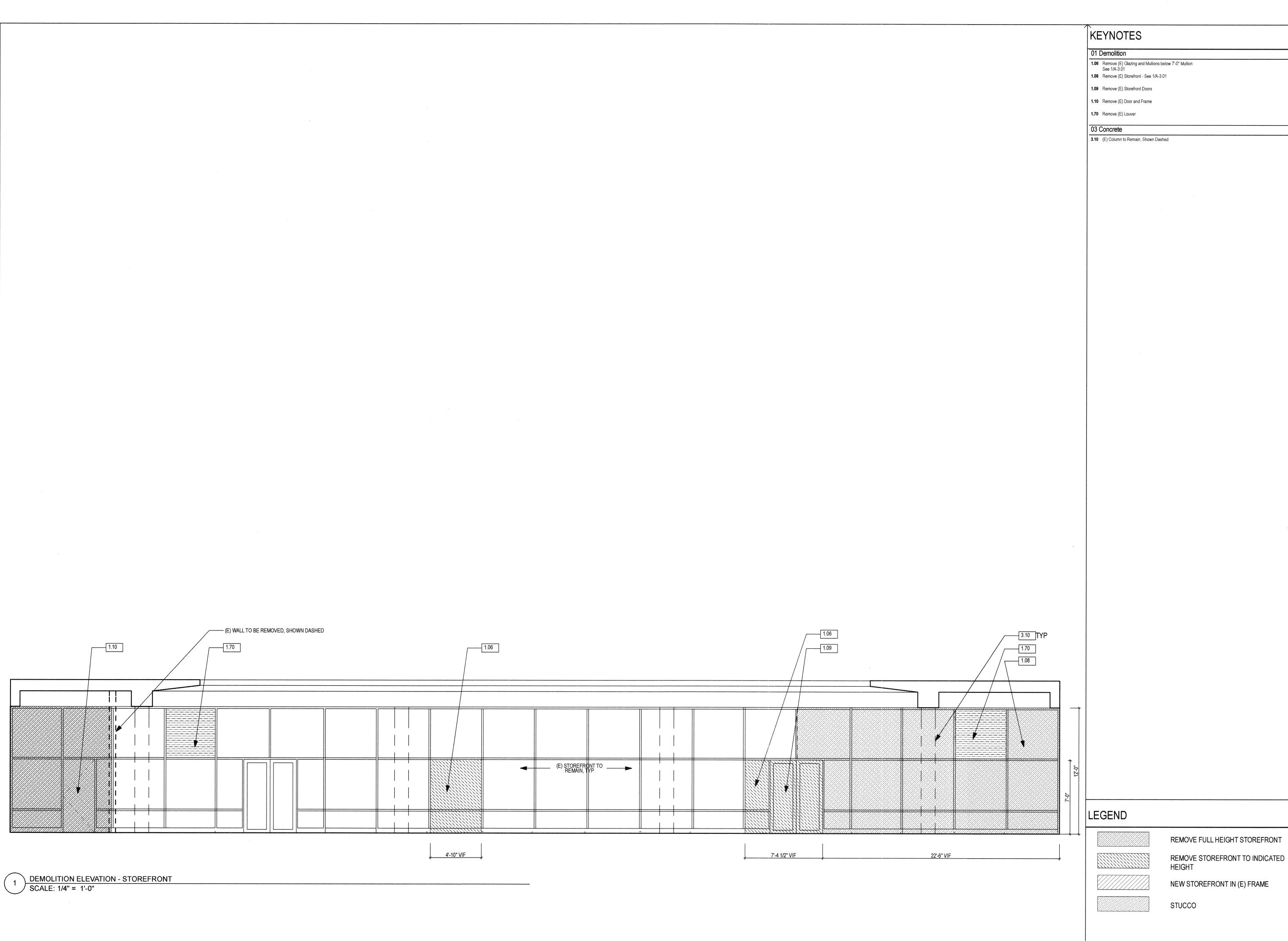
SECOND FLOOR
DEMOLITION PLAN

A-2.03

DSA SET







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Consultants

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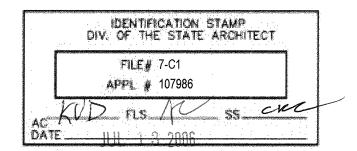
MECHANICAL/ PLUMBING:

Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374

(623)544-0956 (Tel.)/(623)544-5710(Fax) ELECTRICAL:

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

DEMOLITION ELEVATIONS

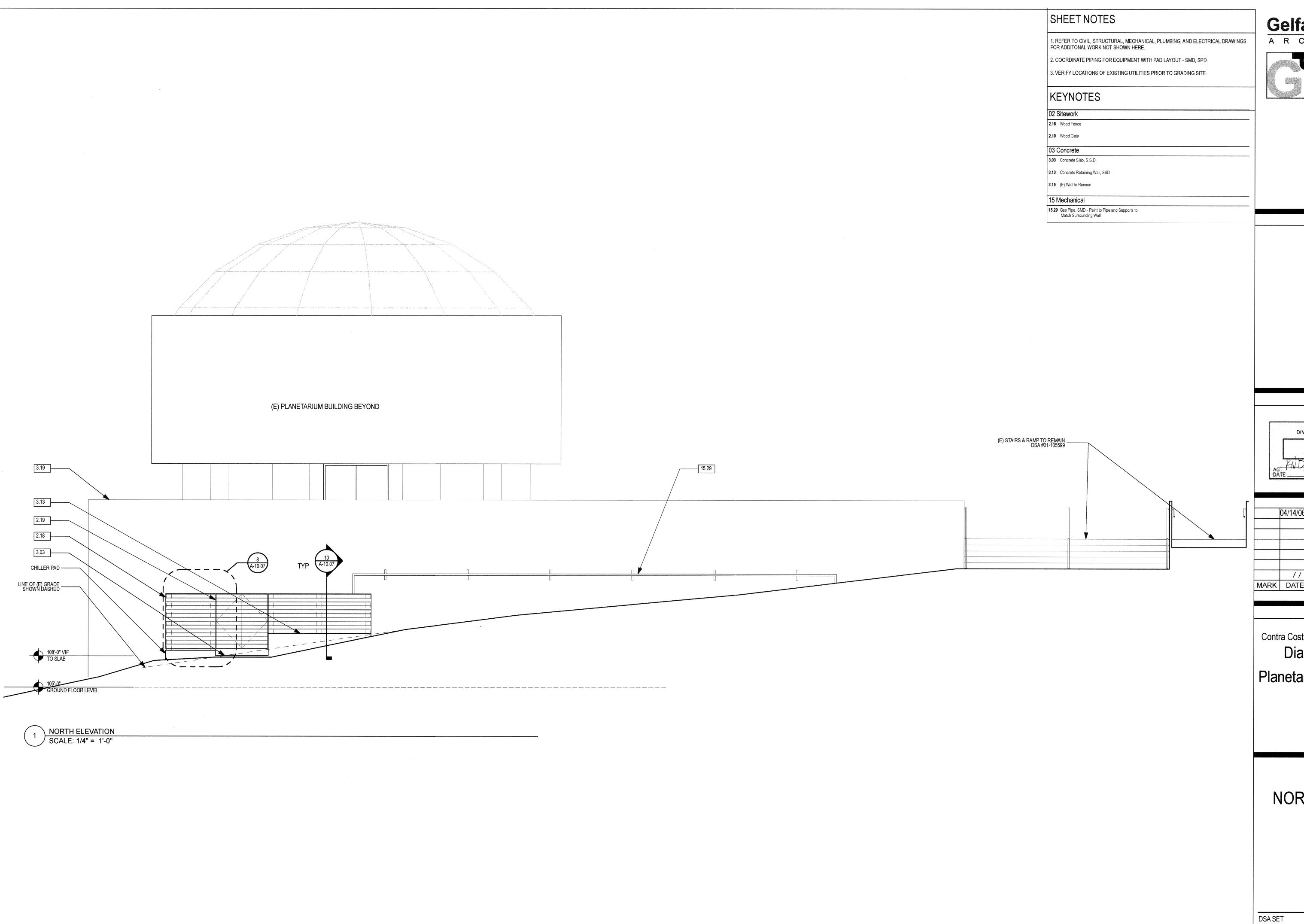
A-3.01

DSA SET

REMOVE FULL HEIGHT STOREFRONT

NEW STOREFRONT IN (E) FRAME

STUCCO



ARCHITECTS



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Consultants

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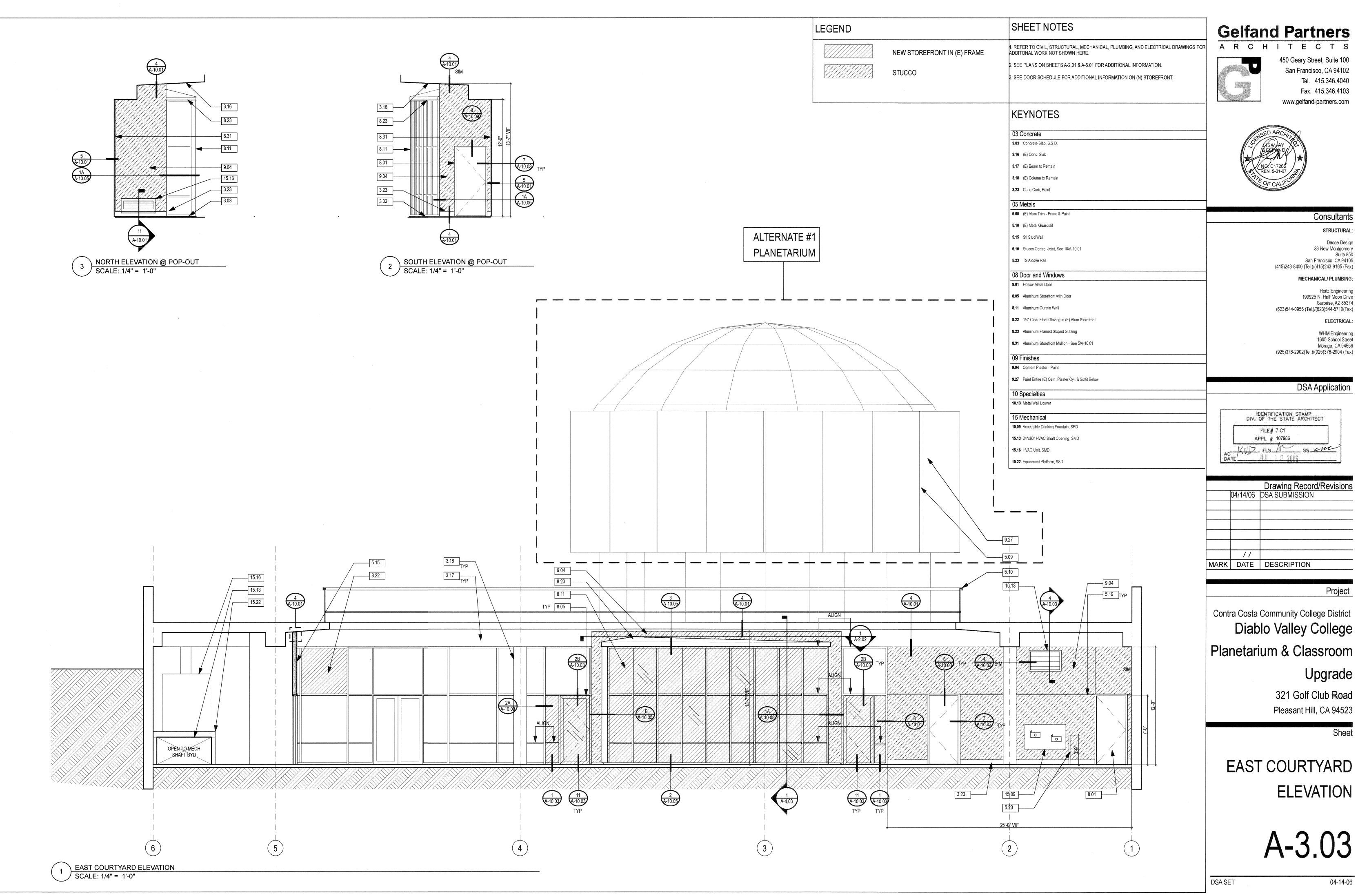
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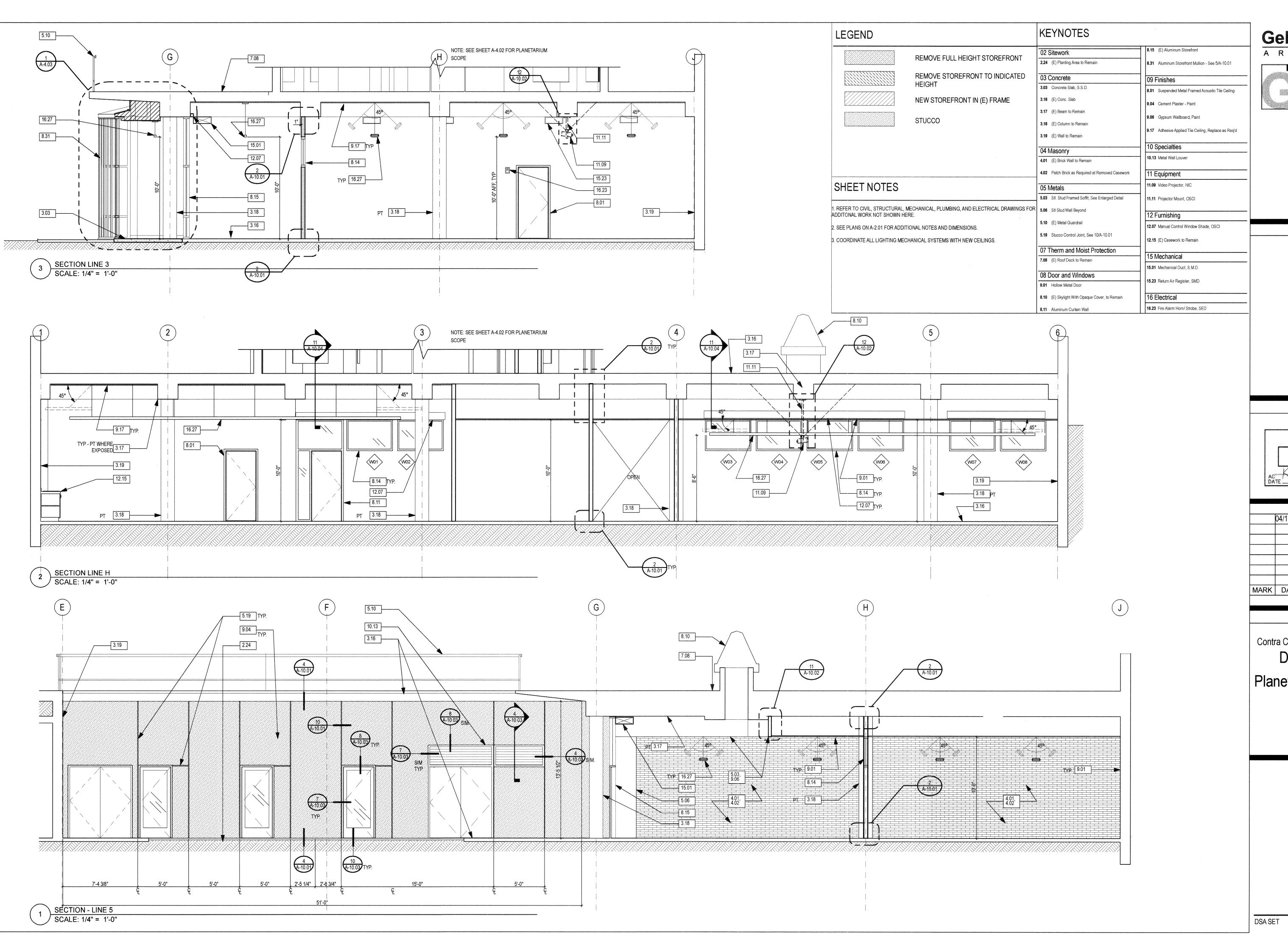
Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Upgrade

321 Golf Club Road Pleasant Hill, CA 94523

NORTH ELEVATION





ARCHITECTS



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Consultants

STRUCTURAL:

Dasse Design
33 New Montgomery

San Francisco, CA 94105
(415)243-8400 (Tel.)/(415)243-9165 (Fax)

MECHANICAL/ PLUMBING:

Heitz Engineering

Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax) ELECTRICAL: WHM Engineering

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

FILE# 7-C1

APPL # 107986

AC JUL 1.3 2006

		Drawing Record/Revision
	04/14/06	DSA SUBMISSION
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MARK	DATE	DESCRIPTION
	2	//

Proje

Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom

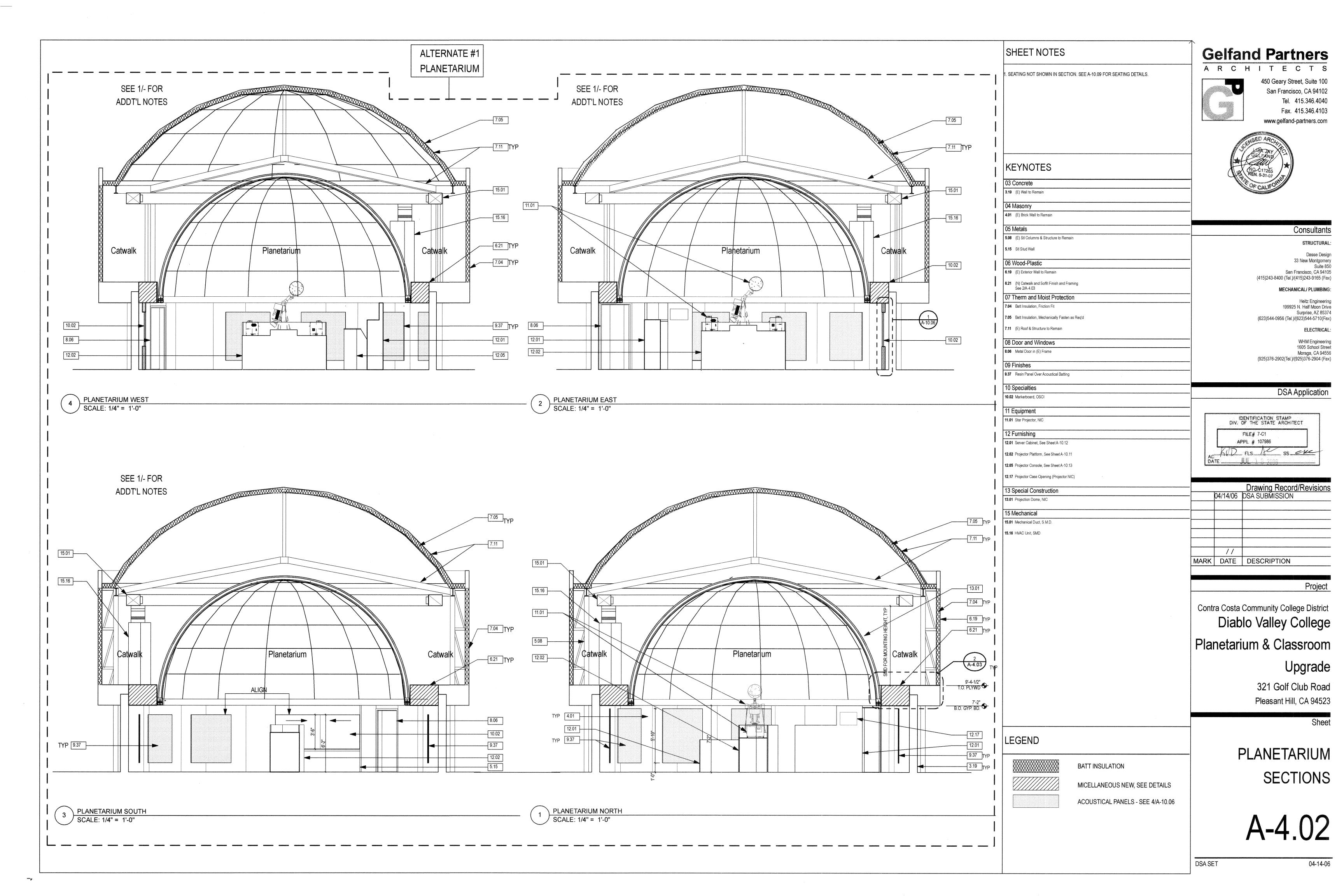
Upgrade

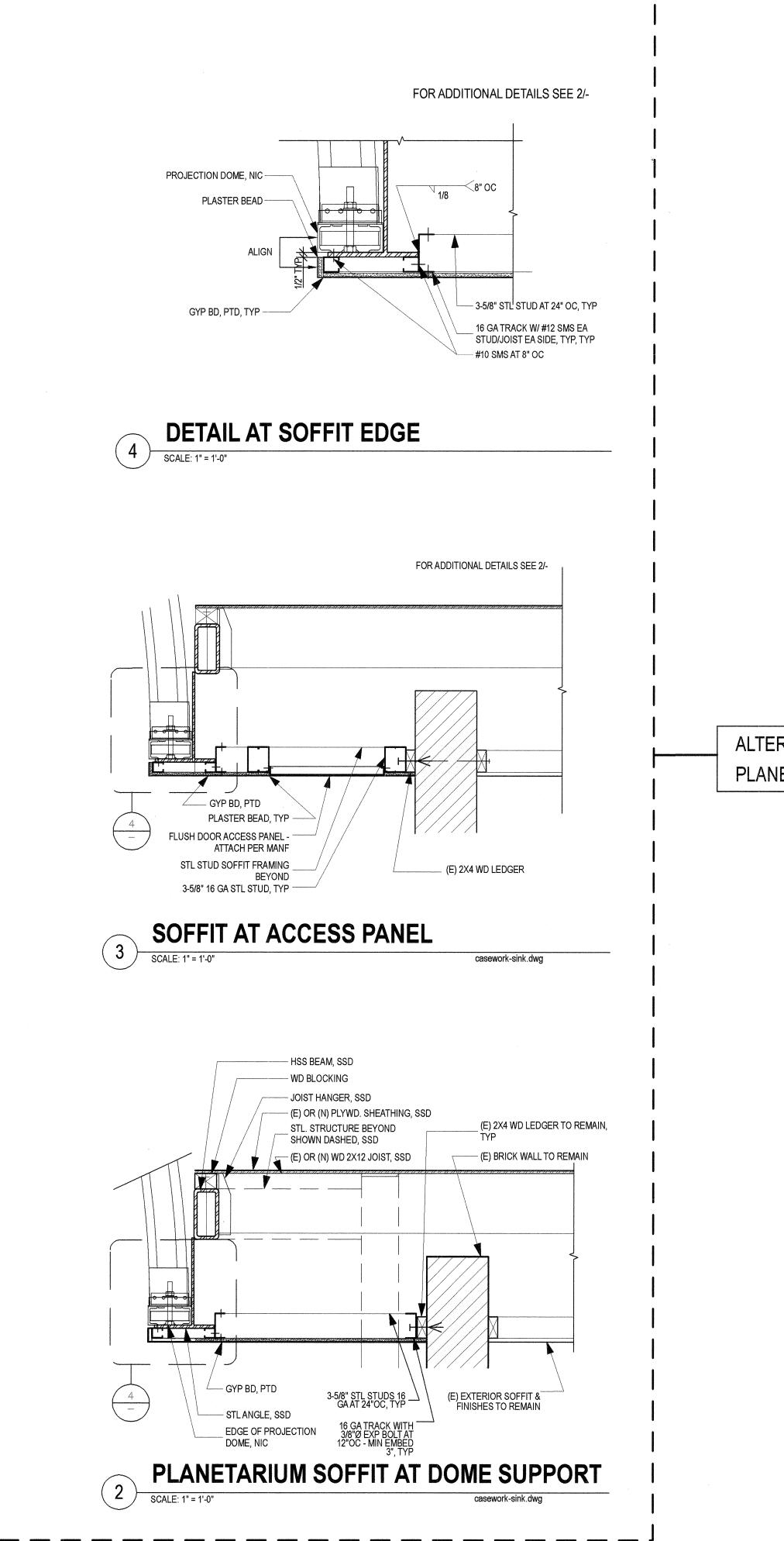
321 Golf Club Road Pleasant Hill, CA 94523

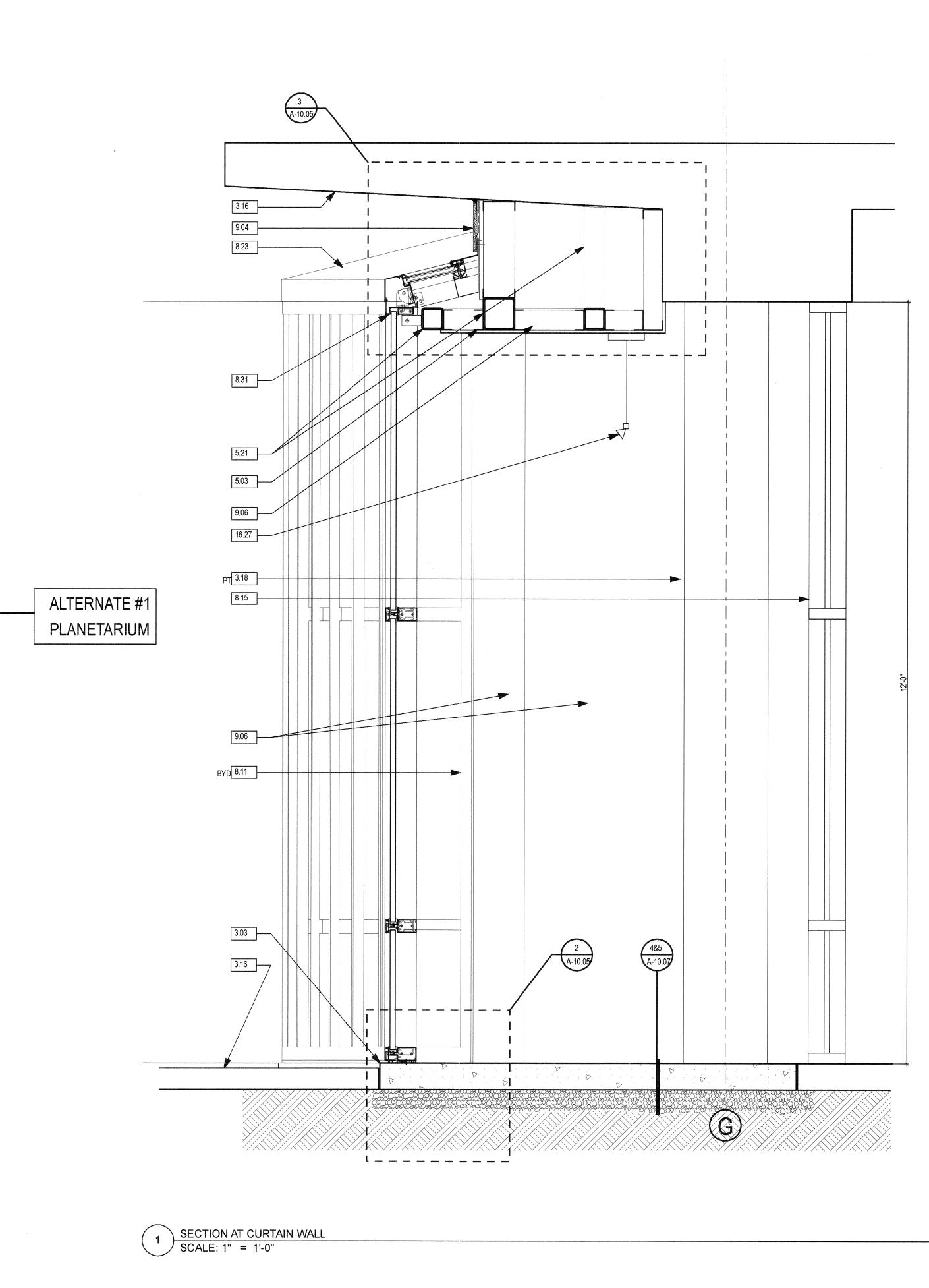
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SECTIONS AT GROUND LEVEL

A-4.0







KEYNOTES

03 Concrete

3.03 Concrete Slab, S.S.D.

3.16 (E) Conc. Slab

3.18 (E) Column to Remain

05 Metals 5.03 Stl. Stud Framed Soffit, See Enlarged Detail

5.21 Stl Framing, SSD - Paint Where Exposed

08 Door and Windows

8.11 Aluminum Curtain Wall

8.15 (E) Aluminum Storefront

8.31 Aluminum Storefront Mullion - See 5/A-10.01

8.23 Aluminum Framed Sloped Glazing

09 Finishes

9.04 Cement Plaster - Paint 9.06 Gypsum Wallboard, Paint

16 Electrical

16.27 Light Fixture, SED

Gelfand Partners

ARCHITECTS



450 Geary Street, Suite 100 San Francisco, CA 94102 Tel. 415.346.4040 Fax. 415.346.4103 www.gelfand-partners.com



Consultants

STRUCTURAL:

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DSA Application

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Contra Costa Community College District Diablo Valley College

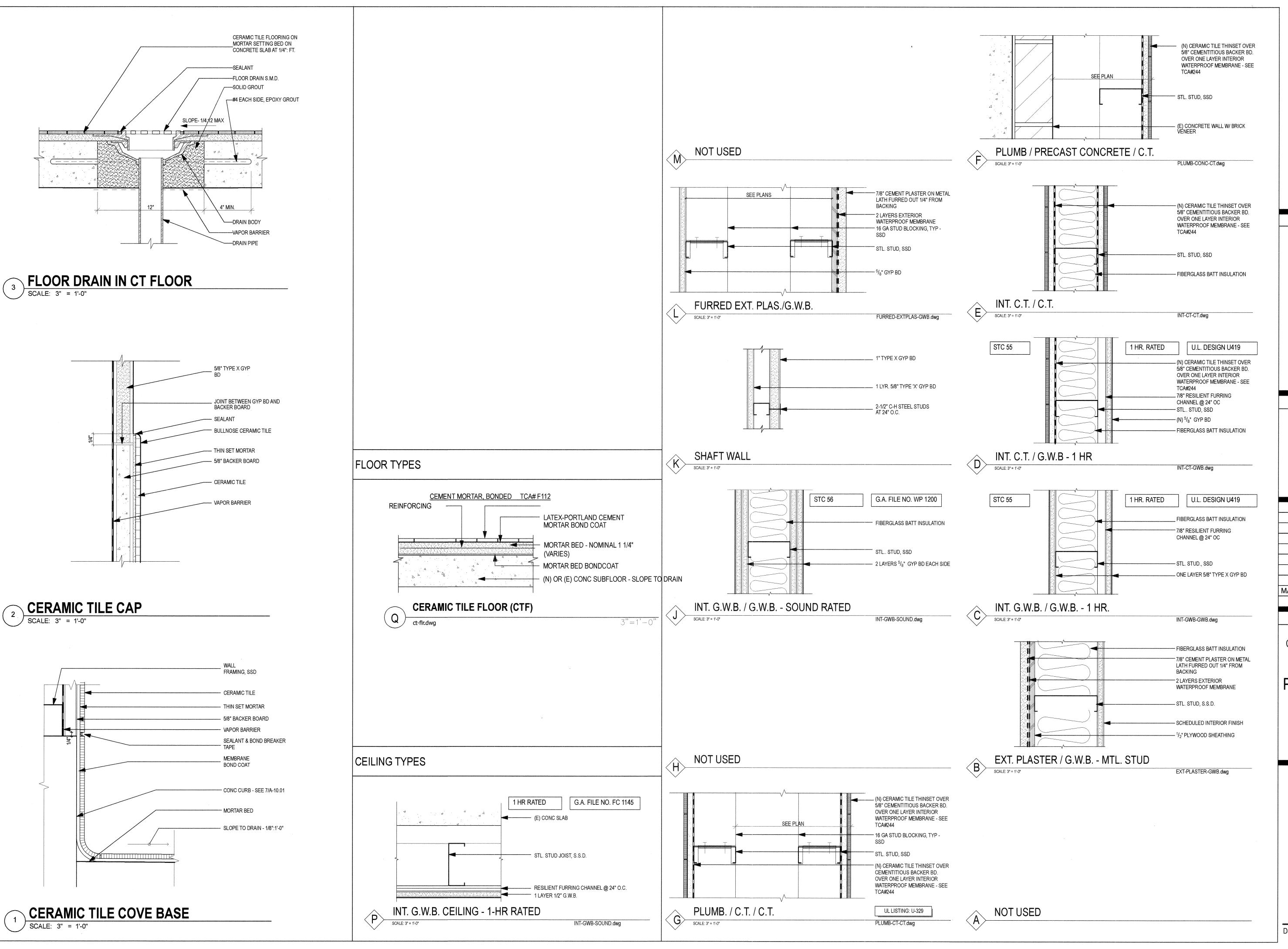
Planetarium & Classroom Upgrade

321 Golf Club Road

Pleasant Hill, CA 94523

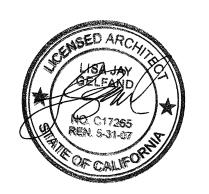
ENLARGED SECTIONS

DSA SET



Gelfand Partners ARCHITECTS





Consultants STRUCTURAL:

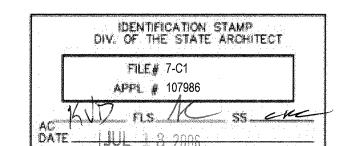
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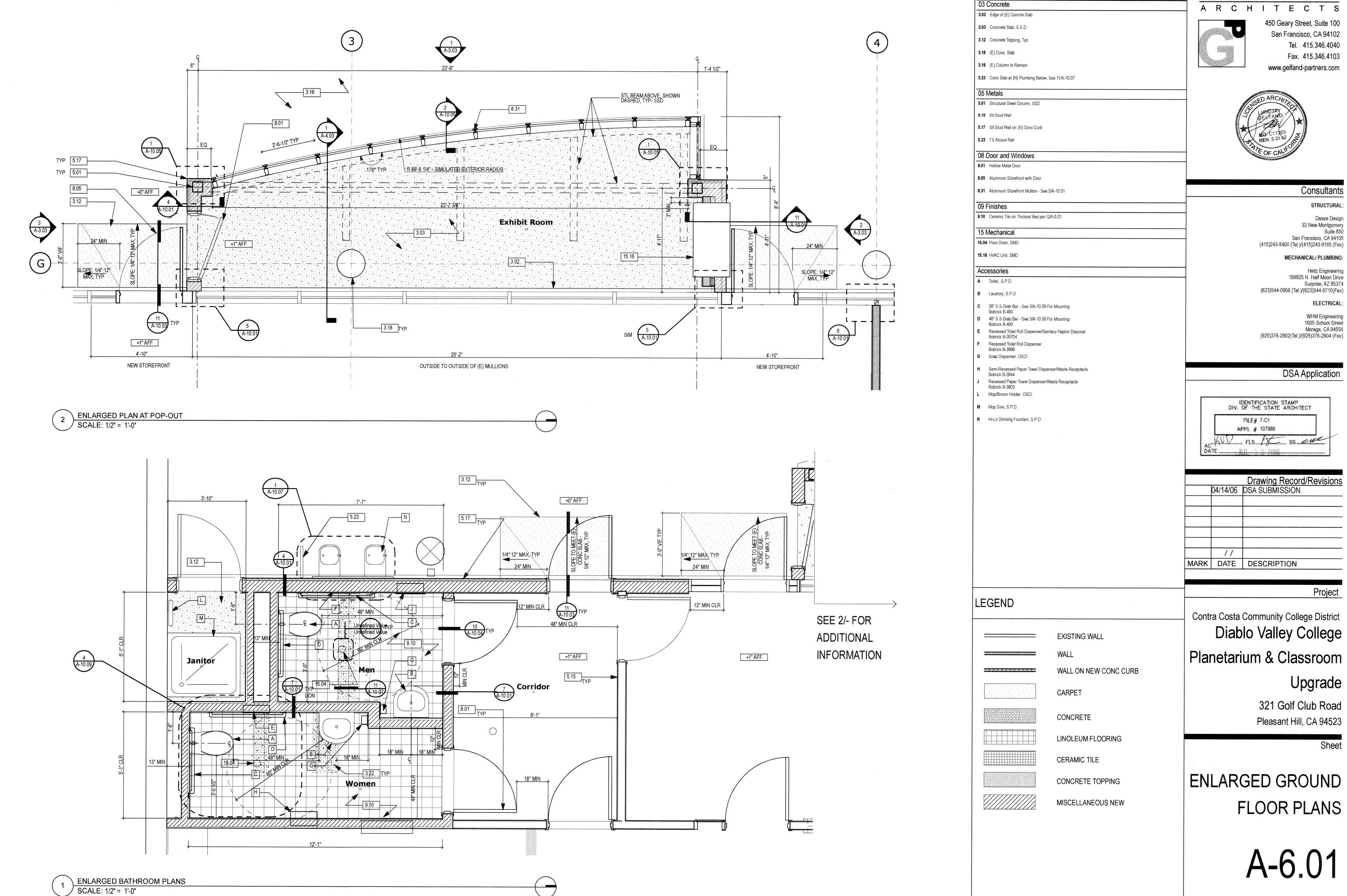
Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

WALL, FLOOR, CLG TYPES AND TILE **DETAILS**

DSA SET



KEYNOTES

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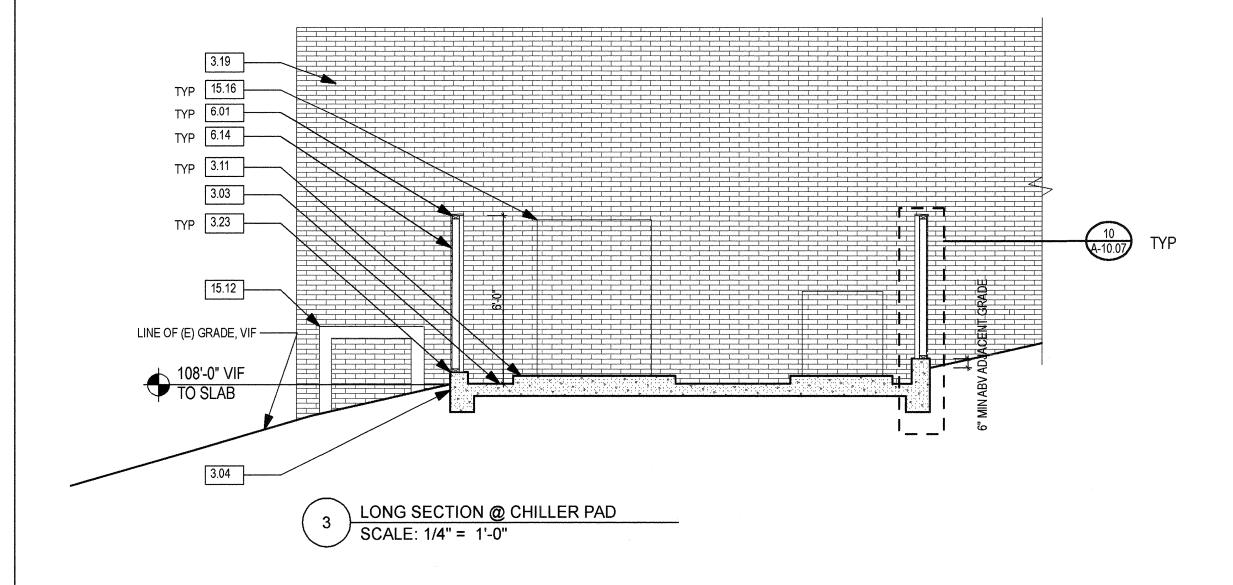
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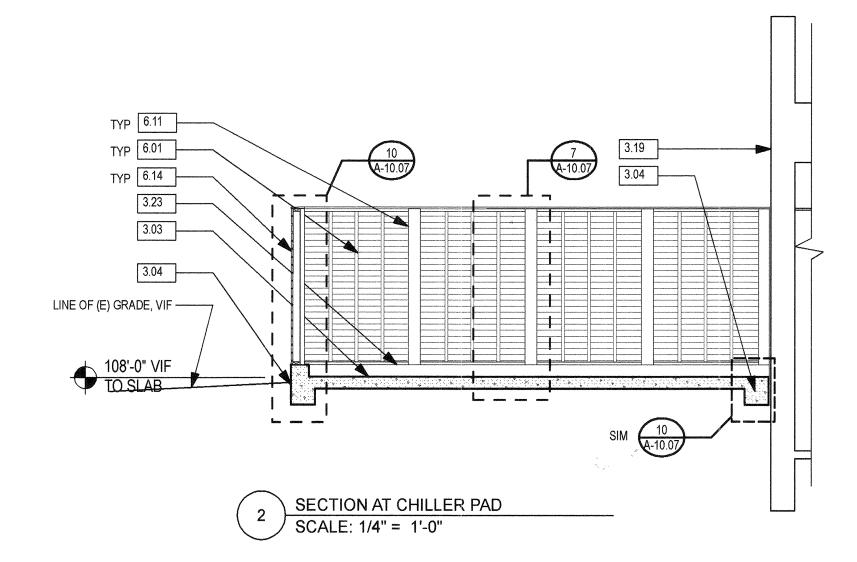
Planetarium & Classroom

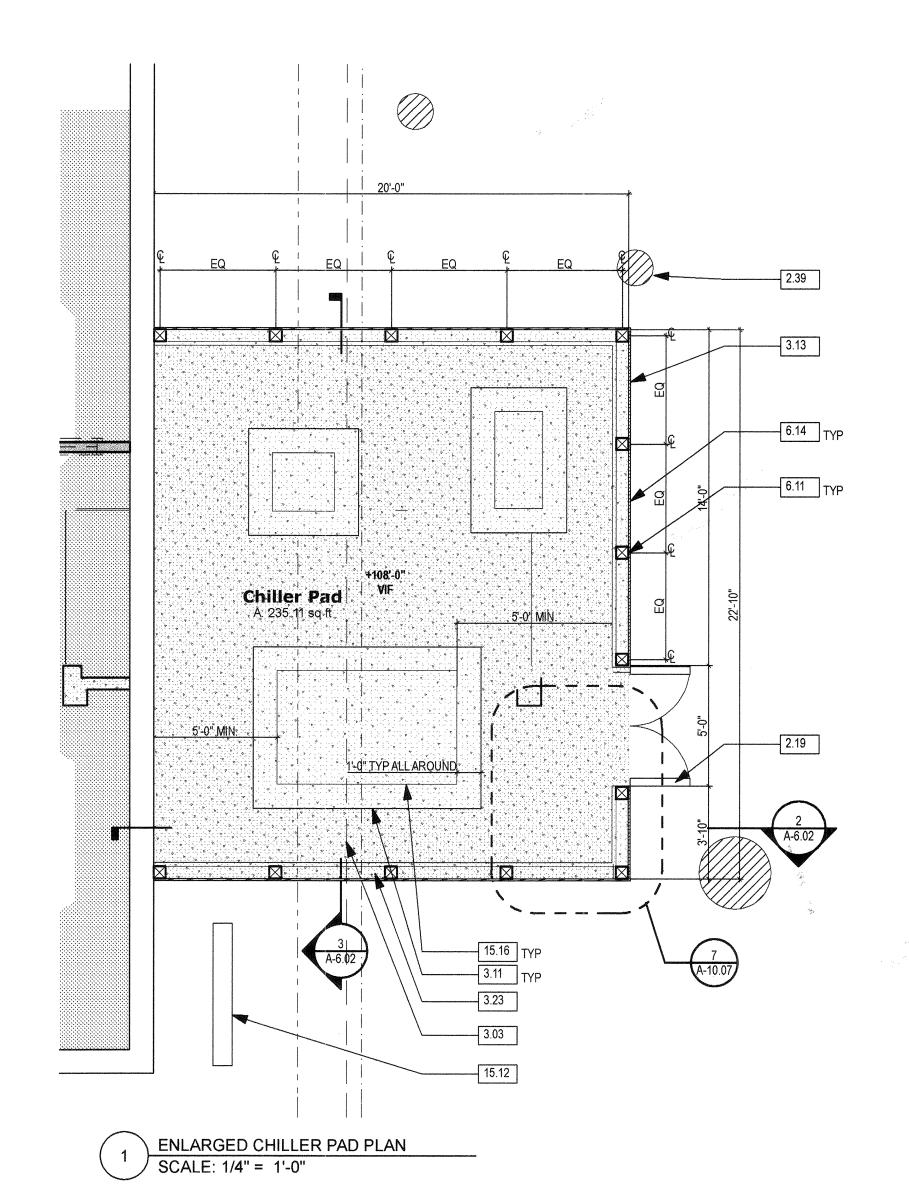
Pleasant Hill, CA 94523

FLOOR PLANS

DSA SET







SHEET NOTES

1. REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITONAL WORK NOT SHOWN HERE.

2. COORDINATE PIPING FOR EQUIPMENT WITH PAD LAYOUT - SMD, SPD.

3. COORDINATE CONCRETE WORK WITH LOCATIONS OF EXISTING UTILITIES.

KEYNOTES

02 Sitework 2.19 Wood Gate

2.39 (E) Tree to Remain

03 Concrete
3.03 Concrete Slab, S.S.D.

3.04 Concrete Footing, S.S.D.

3.11 Conc. Housekeeping Pad, SSD

3.13 Concrete Retaining Wall, SSD

3.19 (E) Wall to Remain

3.23 Conc Curb, Paint

06 Wood-Plastic

6.01 Wood Stud Framing, S.S.D. **6.11** Wood Post, See 7-10/A-10.07

6.14 Wood Plank Enclosure

15 Mechanical
15.12 (E) Water Shut-Off Valve to Remain

15.16 HVAC Unit, SMD

Gelfand Partners

ARCHITECT



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Contra Costa Community College District
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Planetarium & Classroom
Upgrade

321 Golf Club Road

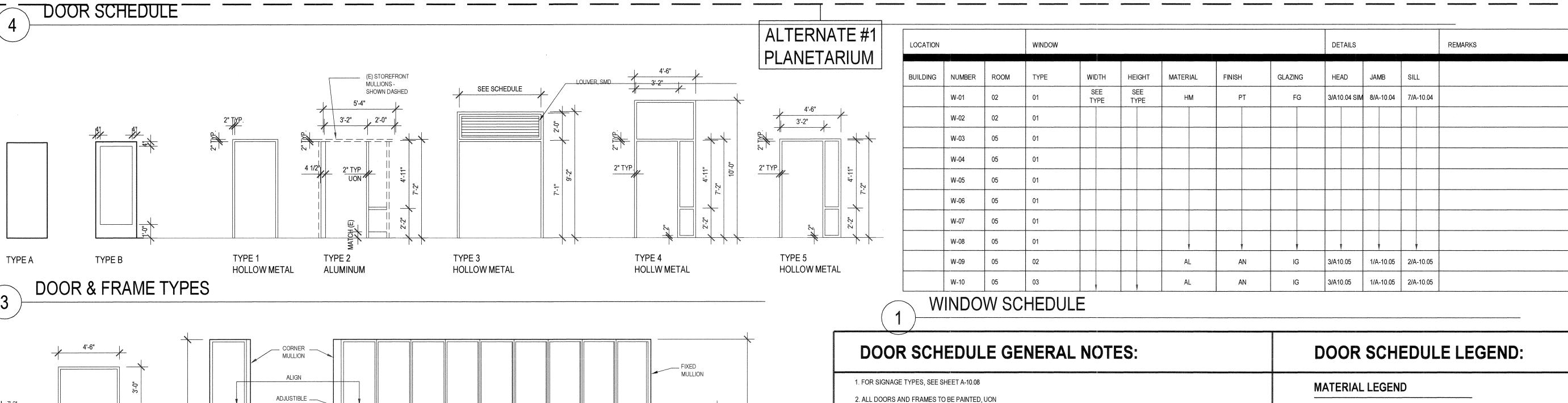
Pleasant Hill, CA 94523

She

ENLARGED CHILLER
ROOM PLANS &
SECTIONS
A A A A

DSA SET

LOCATION			CODE	DOOR									FRAME					HARDWARE	DETAILS				SIGNAGE		REMARKS
BUILDING	NO.	ROOM	INT. / EXT. FIRE RATING	TYPE	(N) / (E)	WIDTH	HEIGHT	THICK	MATERIAL	FINISH	SINGLE / PAIR	GLAZING	TYPE	(N) / (E)	MATERIAL	FINISH	GLAZING	GROUP	HEAD	JAMB	THRESHOLD		REQUIRED SIGNAGE	VERBAGE	
GROUND LEVEL	D01	01	EXT.	В	(N)	3'-0"	7'-0"	1 1/2"	AL	AN	SINGLE	TG	2	(N)/(E)	AL	AN	TG	A	2/A10.03	2/A10.03	11/A10.03	PEMKO 158A	TYPE 2, TYPE 3, TYPE 4	LOBBY	
	D02	01	EXT.	В	(N)	3'-0"	7'-0"	1 1/2"	AL	AN	SINGLE	TG	2	(N)/(E)	AL	AN	TG	A	2/A10.03	2/A10.03	8/A10.03	PEMKO 158A	TYPE 2, TYPE 3, TYPE 4	LOBBY	
	D03	06	EXT.	В	(£)	2'-6"/2'-6"	7'-0"	1 1/2"	AL	AN	PAIR	TG	1	(E)	AL	AN	TG	(E)	-	-	-		-		
	D04	07	INT. 60 MIN.	Α	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	_	1	(N)	H.M.	PAINT	-	В	1/A10.04	5/A10.04	10/A10.04	PEMKO 158A	TYPE 6	MEN	
	D05	08	INT. 60 MIN.	Α	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	В	1/A10.04	5/A10.04	10/A10.04	PEMKO 158A	TYPE 7	WOMEN	
	D06	09	EXT.	Α	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	С	8/A10.03	7/A10.03	11/A10.03 SIM	PEMKO 271A	TYPE 1	09	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D07	02	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	4	(N)	H.M.	PAINT	-	D	3/A10.04	4/A10.04	-		TYPE 1, TYPE 4	02	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D08	15	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE		1	(N)	H.M.	PAINT	-	D	1/A10.04	4/A10.04	-		TYPE 1, TYPE 4	02	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D09	04	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	D	1/A10.04	4/A10.04	-		TYPE 1	03	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D10	03	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	D	1/A10.04	4/A10.04	-		TYPE 1	04	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D11	15	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	D	1/A10.04	4/A10.04	-		TYPE 2, TYPE 4	HALLWAY	DELETE DOOR SHOE & HEAD/JAMB GASKET
and the second s	D12	05	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	5	(N)	H.M.	PAINT	TG	D	1/A10.04	4/A10.04	-		TYPE 1, TYPE 4	05	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D13	06	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	5	(N)	H.M.	PAINT	TG	D	1/A10.04	4/A10.04	-		TYPE 1, TYPE 4	06	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D14	10	EXT.	Α	(N)	3'-0" /3'-0"	7'-0"	1 3/4"	H.M.	PAINT	PAIR	-	3	(N)	H.M.	PAINT	-	F	8/A10.03	7/A10.03	10/A10.03 SIM	PEMKO 271A	TYPE 1	10	
	D15	11	EXT.	В	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	G	8/A10.03	7/A10.03	10/A10.03	PEMKO 158A	TYPE 1	11	
	D16	12	EXT.	В	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	G	8/A10.03	7/A10.03	10/A10.03	PEMKO 158A	TYPE 1	12	
	D17	13	EXT.	В	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	G	8/A10.03	7/A10.03	10/A10.03	PEMKO 158A	TYPE 1	13	
	D18	14	EXT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	С	8/A10.03	7/A10.03	-		TYPE 1	15	
	D19	16	EXT.	Α	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	К	8/A10.03	7/A10.03	11/A10.03	PEMKO 158A	TYPE 4	-	
	D20	16	INT. 60 MIN.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	J	1/A10.04	4/A10.04	9/A10.04	PEMKO 271A	(2) TYPE 2	(SIGN 1) RESTROOMS (SIGN 2) LOBBY	
	D21	16	INT. 60 MIN.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	E	1/A10.04	4/A10.04	9/A10.04	PEMKO 271A	TYPE , TYPE 4	02	
	D22	17	INT.	А	(N)	2'-6"/2'-6"	7'-0"	1 3/4"	H.M.	PAINT	PAIR	-	1	(N)	H.M.	PAINT		F	1/A10.04	4/A10.04	-		-	-	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D23	18	INT.	А	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(N)	H.M.	PAINT	-	С	1/A10.04	4/A10.04	-		-	-	DELETE DOOR SHOE & HEAD/JAMB GASKET
	D24	19	EXT.	А	(N)	3'-0" /3'-0"	7'-0"	1 3/4"	H.M.	PAINT	PAIR	-	1	(N)	H.M.	PAINT	-	F	8/A10.03	7/A10.03	10/A10.03 SIM	PEMKO 271A			
	D25	20	INT.	_A	(E)	3'-0" /3'-0"	7'-0"	1 3/4"	H.M.	PAINT	PAIR		1	(E)	H.M.	PAINT		(E)	The second secon		-	netico participativa processora de la constanti	TYPE 2	ELECTRICAL	
SECOND LEVEL	D30	30	EXT.	А	(N)	3'-0" /3'-0"	7'-0"	1 3/4"	H.M.	PAINT	PAIR	-	1	(E)	H.M.	PAINT	-	L	-	-	10/A10.03	PEMKO 158A	TYPE 2, TYPE 4, TYPE 5	PLANETARIUM	
	D31	30	EXT.	A	(N)	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	SINGLE	-	1	(E)	H.M.	PAINT	-	М	-		10/A10.03	PEMKO 158A	TYPE 2, TYPE 4, TYPE 5	PLANETARIUM	



2'-6¹" TYP SEE PLANS 2/A-6.01

3. ALL TYPE 1 & 2 ROOM SIGNS TO BE MOUNTED ON THE CORRIDOR OR LOBBY SIDE OF DOOR PER

4. ALL TYPE 4 EXIT SIGNS TO BE MOUNTED IN THE AREA TO BE EXITED PER 1/A-10.08

5. ALL DOOR HARDWARE TO BE MOUNTED PER CBC 1133B.2.5.2

1/A-10.08, UON

MULLION, TYP UON

2'-8 1/2"

TYPE 02 ALUMINUM

TYPE 01 HOLLOW METAL

WINDOW TYPES

MULLION

ALIGN

TYPE 03

ALUMINUM

ALUMINUM GLASS HOLLOW MEATAL WOOD TEMPERED GLAZING FLOAT GLAZING LOW-E INSULATED GLAZING

FINISH LEGEND

ANODIZED PAINT **ABBREVIATIONS**

NEW **EXISTING** HOUR HR MIN. MINUTE

DSA SET

Gelfand Partners ARCHITECTS

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DSA Application

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AC_	KVD FLS R SS C
DAT	FJUL 13 2006

	Drawing Record/Revis
04/14/06	DSA SUBMISSION

MARK DATE DESCRIPTION

Project Contra Costa Community College District

Diablo Valley College Planetarium & Classroom

> Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

DOOR & WINDOW SCHEDULES

LOCATION			FLOOR	WALL BASE	NORTH WAL	L	EAST WALL		SOUTH WA	L	WEST WALL	an and a supplementary	CEILING		TRIM	REMARKS
BUILDING	NO.	ROOM	MATERIAL	MATERIAL	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	FINISH	
GROUND LEVEL	01	LOBBY	(E) CONC/STAIN	RB	GB	EG	GB	EG	GB	EG	(E)/(N) SF		AAC	FL	SG	04,05,06,08,10,11
	02	CLASSROOM1	(E) CONC/STAIN	RB	GB	EG	(E) BRICK	-	(E) BRICK	-	GB	EG	AAC	FL	SG	04,05,06,08,09,10,11
	03	PREP ROOM 1	(E) CONC/STAIN	RB	GB	EG	GB	EG	GB	EG	GB	EG	SAC	-	SG	04,11
	04	PREP ROOM 2	(E) CONC/STAIN	RB	GB	EG	GB	EG	GB	EG	GB	EG	SAC	-	SG	04,11
	05	CLASSROOM 2	(E) CONC/STAIN	· RB	(E) BRICK	EG	(E) BRICK	EG	GB	EG	GB	EG	SAC	-	SG	04,09,10,11
	06	CLASSROOM3	(E) CONC/STAIN	RB	(E) BRICK	EG	GB	EG	GB	EG	(E) SF/GB	EG	SAC/AAC	FL	SG	04,05,06,07,08,09,10,11
	07	MEN	СТ	СТСВ	GB/CTW	SG	GB/CTW	SG	GB/CTW	SG	GB/CTW	SG	GB	· -	SG	01,02,04
	08	WOMEN	СТ	СТСВ	GB/CTW	SG	GB/CTW	SG	GB/CTW	SG	GB/CTW	SG	GB	-	SG	01,02,04
	09	JANITOR	СТ	стсв	GB/CTW	SG	GB/CTW	SG	GB/CTW	SG	GB	SG	-	-	SG	01,03
	10	MECHANICAL	(E) CONC	RB	(E) BRICK	-	GB	EG	GB	EG	GB	EG	-	-	SG	09
	11	OFFICE	LIN	RB	(E) BRICK	-	GB	EG	GB	EG	GB	EG	SAC	-	SG	04,09,10
	12	OFFICE	LIN	RB	(E) BRICK	-	GB	EG	GB	EG	GB	EG	SAC	-	SG	04,09,10
	13	OFFICE	LIN	RB	(E) BRICK	-	GB	EG	GB	EG	GB	EG	SAC	-	SG	04,09
	14	EXHIBIT SPACE	TO/STAIN	RB	GB	EG	GB	EG	GB	EG	SF	-	SAC	-	SG	07,10,13
	15	HALLWAY	(E) CONC/STAIN	RB	GB	EG	GB	EG	GB	EG	GB	EG	SAC	-	SG	10,11
	16	CORRIDOR	(E) CONC/STAIN	RB	GB	EG	GB	EG	GB	EG	GB	EG	GB	-	SG	10,11
	17	IT CLOSET	(E) CONC	RB	GB	EG	GB	EG	GB	EG	GB	EG	SAC	-	SG	
	18	STORAGE	(E) CONC	RB	GB	EG	GB	EG	GB	EG	GB	EG	SAC	-	SG	
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SECOND LEVEL	30	PLANETARIUM	СРТ	RB	(E) BRICK/RP	-	(E) BRICK/RP	-	(E) BRICK/RP	-	(E) BRICK/RP	-	GB	FL	SG	04,09
CATWALK LEVEL	31	CATWALK	(E)/(N) PLWD	FL	BATT	-	BATT	_	BATT	_	BATT	_			SG	04,12

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ALTERNATE #1 PLANETARIUM

FINISH SCHEDULE

SHEET NOTES:

FINISH REMARKS:

02. CTW TO 7'-2" A.F.F. - SEE INTERIOR ELEVATIONS

04. PAINT ALL ACCESS PANELS, EXPOSED ELECTRICAL CONDUITS & RACEWAYS

05. REPLACE DAMAGED CEILING TILES AS REQUIRED

07. STAIN (N) CONC SLAB TO MATCH SURROUNDING

10. PAINT (E) EXPOSED COLUMNS TO MATCH SURROUNDING

11. STAIN ALL CONC PATCHING TO MATCH SURROUNDING

09. (E) BRICK WALLS TO REMAIN UNPAINTED

12. PAINT PLYWOOD FLOOR FLAT BLACK

13. PAINT EXPOSED STEEL FRAMING

06. STAIN (E) CONC FLOOR TO MATCH SURROUNDING AT REMOVED WALLS & CASEWORK

01. PAINT GB ABOVE CTW OR TW.

08. PAINT ALL EXPOSED DUCTS

03. CTW TO 4'-0" A.F.F.

- 01. ALL FINISHES NEW U.O.N. 02. PAINT ALL FINISHES U.O.N.

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MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College

Planetarium & Classroom

Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

FINISH SCHEDULE

FINISH SCHEDULE LEGEND:

ADHESIVE APPLIED ACOUSTIC TILE ABUSE RESISTANT GYPSUM WALLBOARD

ACOUSTICAL CEILING TILE BATT SOUND INSULATION CONCRETE MASONRY UNIT

CARPET

CERAMIC TILE

CERAMIC TILE WAINSCOT - SEE ELEVATION CERAMIC TILE COVE BASE

CONCRETE

EGGSHELL FINISH FLAT FINISH

5/8" GYPSUM WALL BOARD LINEOLEUM FLOORING

RESIN PANEL

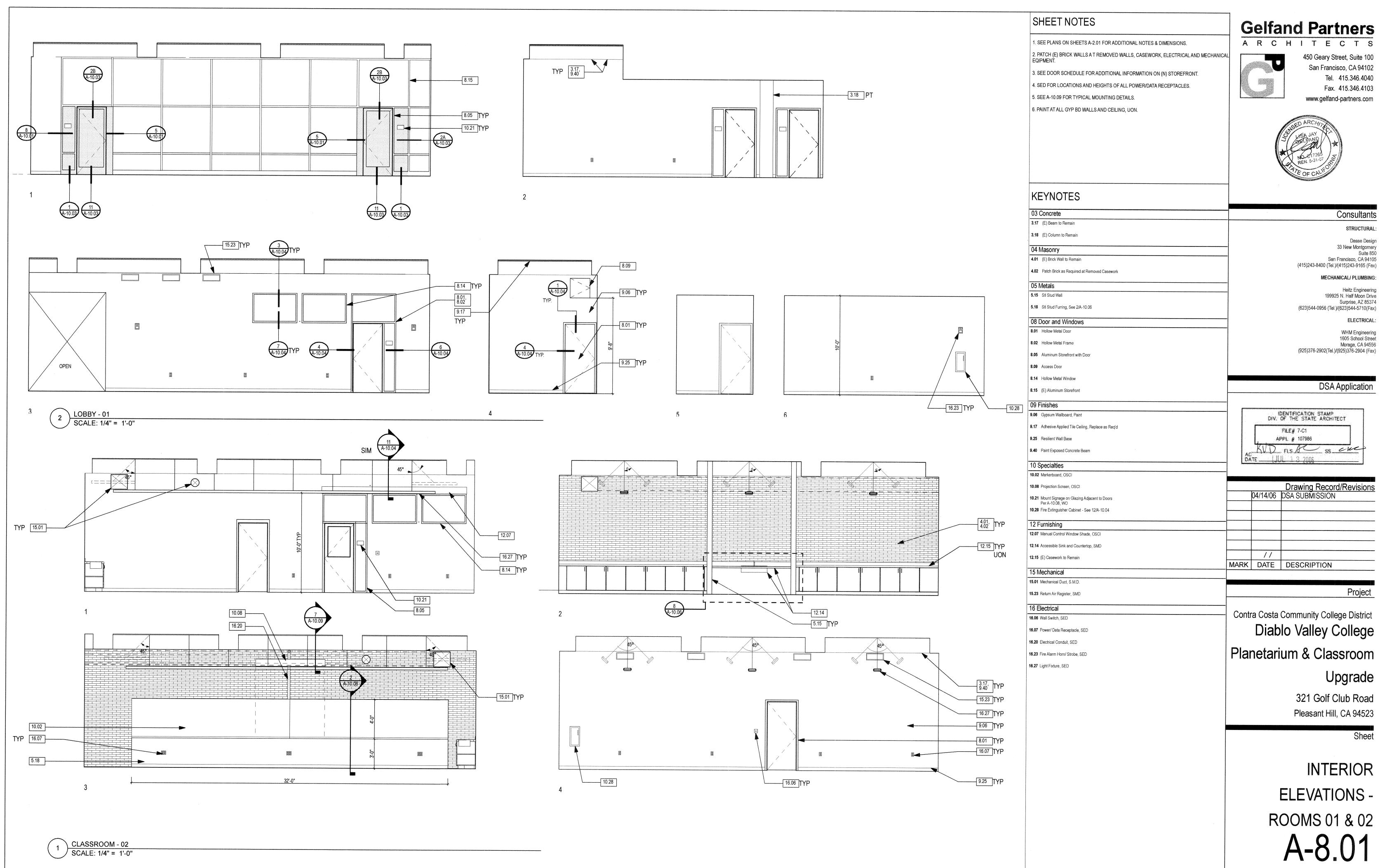
RUBBER BASE, 4" HT., U.O.N. SUSPENDED ACOUSTIC TILE

SELF LEVELING CONCRETE TOPPING

SEMI-GLOSS PAINT

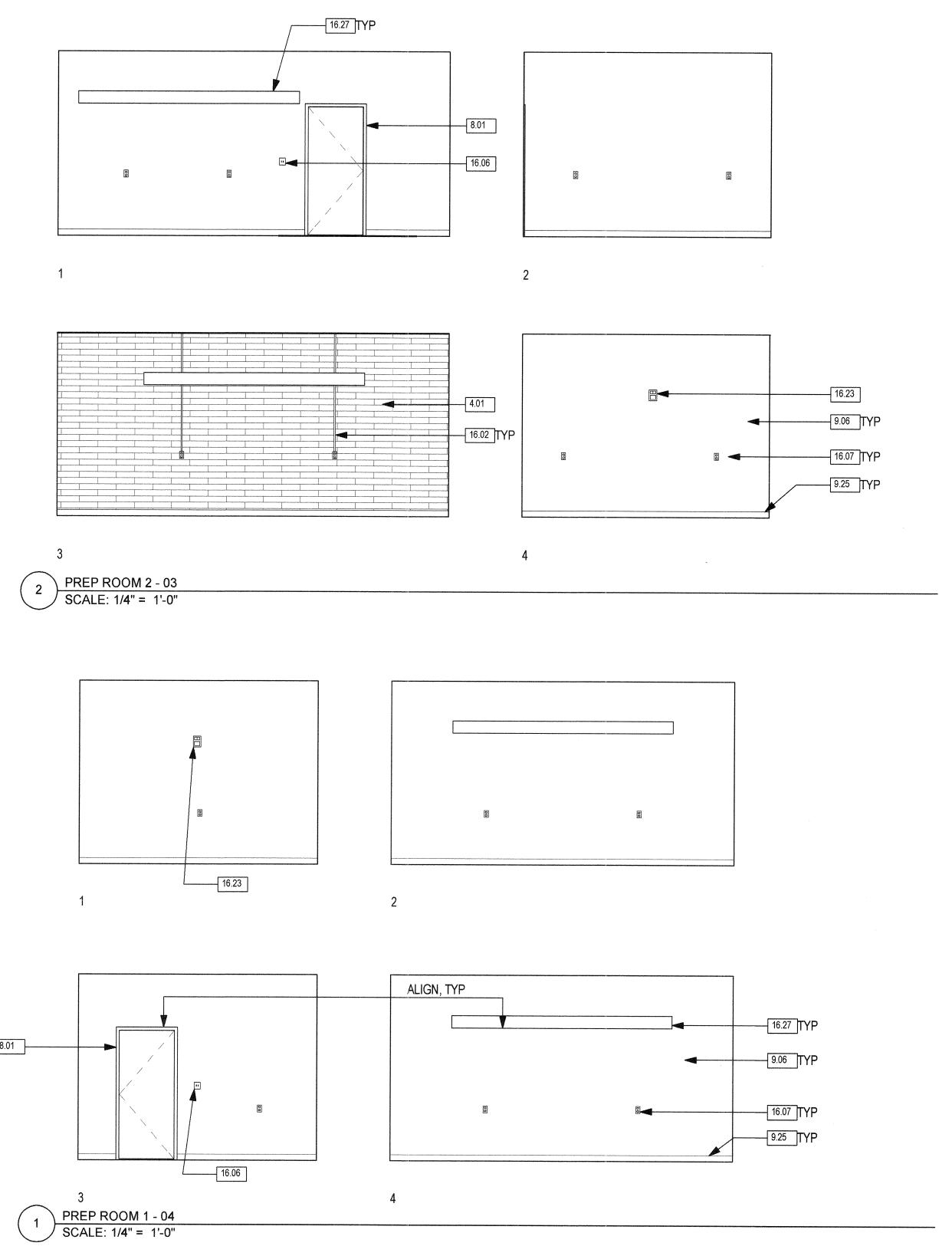
STOREFRONT STEEL

DSA SET



ELECTRICAL: WHM Engineering 1605 School Street

DSA SET



SHEET NOTES

1. SEE PLANS ON SHEETS A-2.01 FOR ADDITIONAL NOTES & DIMENSIONS. 2. PATCH (E) BRICK WALLS AT REMOVED WALLS, CASEWORK, ELECTRICAL AND MECHANICAL EQIPMENT.

3. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION ON (N) STOREFRONT.

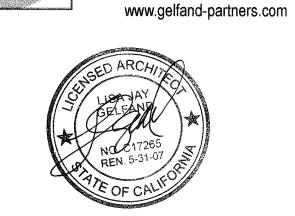
4. SED FOR LOCATIONS AND HEIGHTS OF ALL POWER/DATA RECEPTACLES.

6. PAINT AT ALL GYP BD WALLS AND CEILING, UON.

5. SEE A-10.09 FOR TYPICAL MOUNTING DETAILS.

Gelfand Partners ARCHITECTS

450 Geary Street, Suite 100 San Francisco, CA 94102 Tel. 415.346.4040 Fax. 415.346.4103



KEYNOTES

04 Masonry

4.01 (E) Brick Wall to Remain

08 Door and Windows 8.01 Hollow Metal Door

09 Finishes 9.06 Gypsum Wallboard, Paint

9.25 Resilient Wall Base

16 Electrical

16.02 Electrical Conduit, Paint - SED

16.07 Power/ Data Receptacle, SED

16.06 Wall Switch, SED

16.27 Light Fixture, SED

16.23 Fire Alarm Horn/ Strobe, SED

DSA Application

Consultants

STRUCTURAL:

33 New Montgomery Suite 850

MECHANICAL/ PLUMBING:

Heitz Engineering 199925 N. Half Moon Drive

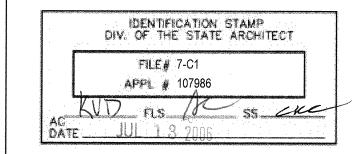
ELECTRICAL:

WHM Engineering 1605 School Street

San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

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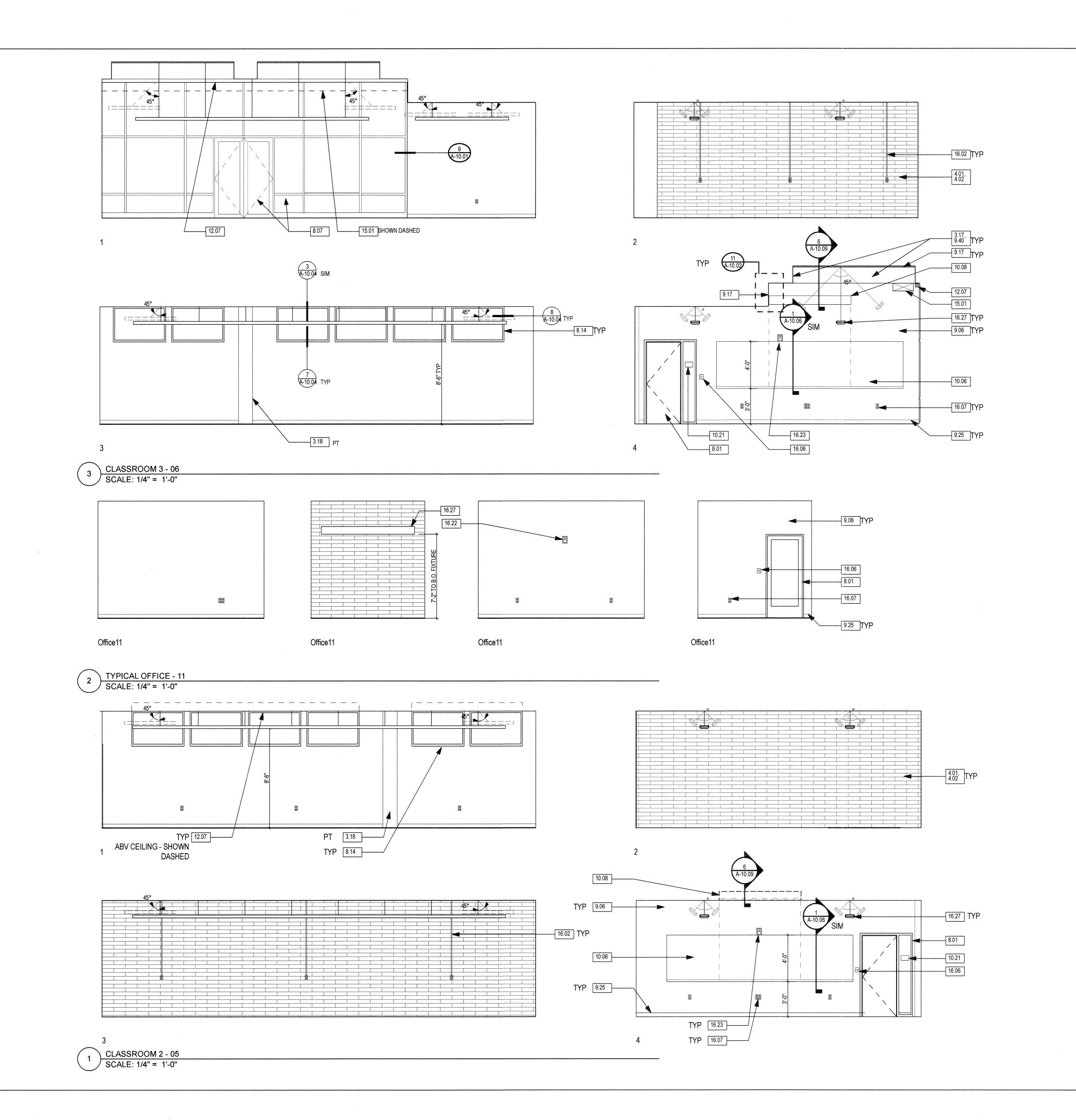
Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

INTERIOR ELEVATIONS 03 & 04

A-8.02

DSA SET



SHEET NOTES

KEYNOTES

3.17 (E) Beam to Remain

3.18 (E) Column to Remain

4.01 (E) Brick Wall to Remain

08 Door and Windows

8.07 (E) Storefront and Doors to Remain

8.01 Hollow Metal Door

8.14 Hollow Metal Window

9.06 Gypsum Wallboard, Paint

9.40 Paint Exposed Concrete Beam

10.08 Projection Screen, OSCI

9.25 Resilient Wall Base

10.06 Markerboard

12 Furnishing

09 Finishes

4.02 Patch Brick as Required at Removed Casework

9.17 Adhesive Applied Tile Ceiling, Replace as Req'd

10.21 Mount Signage on Glazing Adjacent to Doors Per A-10.08, WO

03 Concrete

04 Masonry

1. SEE PLANS ON SHEETS A-2.01 FOR ADDITIONAL NOTES & DIMENSIONS.

2. PATCH (E) BRICK WALLS A T REMOVED WALLS, CASEWORK, ELECTRICAL AND MECHANICAL

3. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION ON (N) STOREFRONT. 4. SED FOR LOCATIONS AND HEIGHTS OF ALL POWER/DATA RECEPTACLES. 5. SEE A-10.09 FOR TYPICAL MOUNTING DETAILS.

6. PAINT AT ALL GYP BD WALLS AND CEILING, UON.

Gelfand Partners

ARCHITECTS



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Consultants

STRUCTURAL:

Dasse Design

33 New Montgomery Suite 850 San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

MECHANICAL/ PLUMBING:

Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

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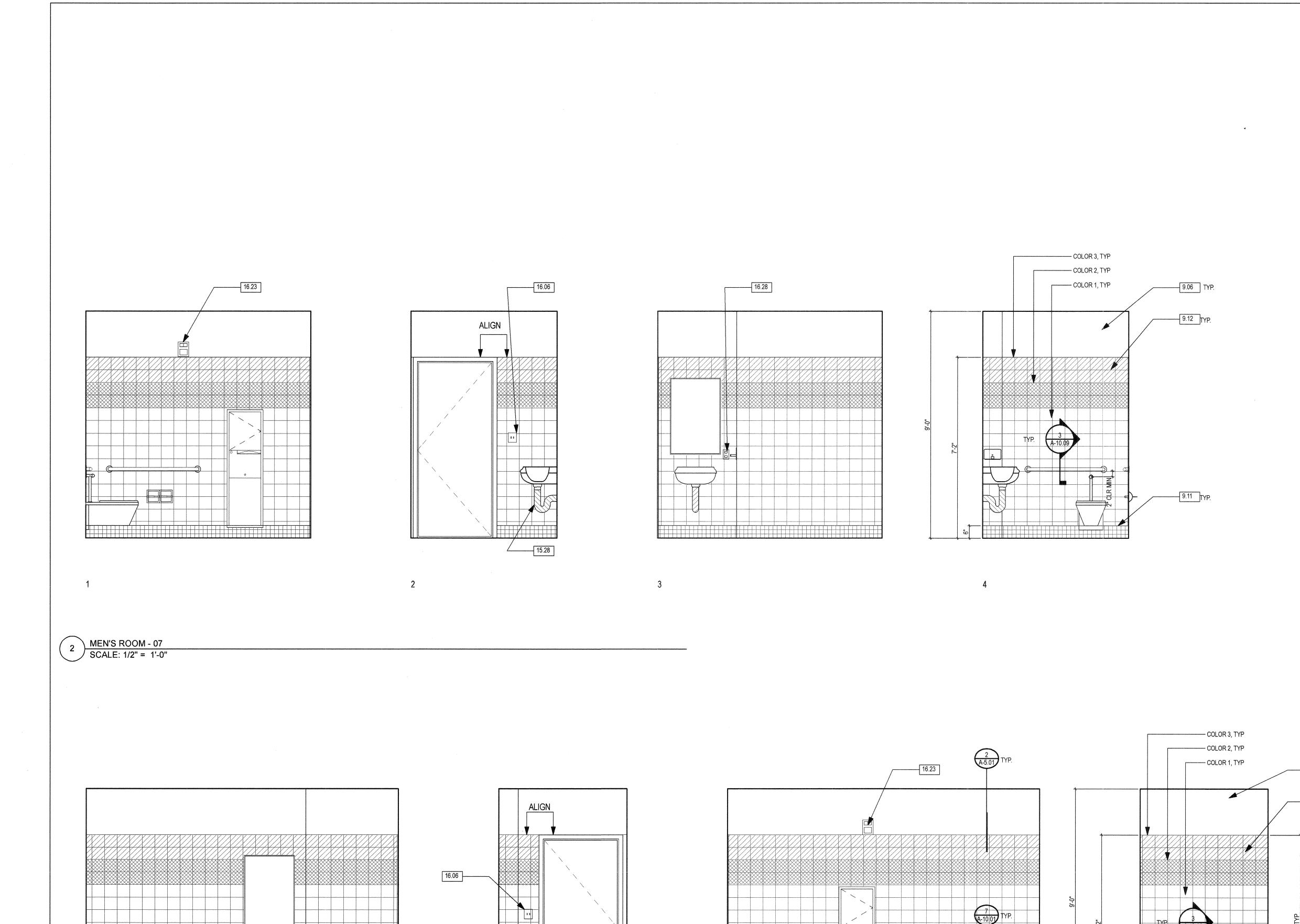
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

INTERIOR ELEVATIONS ROOMS 05, 06 & 11

DSA SET



WOMEN'S ROOM - 08 SCALE: 1/2" = 1'-0"

SHEET NOTES

KEYNOTES

9.06 Gypsum Wallboard, Paint

9.11 Ceramic Tile Cove Base

9.12 Ceramic Tile, Thinset

15.28 HW Pipe & Drain Insulation, SMD

16.23 Fire Alarm Horn/ Strobe, SED

16.28 GFCI Receptacle, SED

15 Mechanical

16 Electrical

16.06 Wall Switch, SED

09 Finishes

1. SEE 1/A-6.01 FOR ADDITIONAL NOTES & DIMENSIONS. 2. SEE 1/A-10.09 FOR TYPICAL FIXTURE MOUNTING HEIGHTS. 3. SEE 1/A-6.01 FOR FIXTURE AND ACCESSORY NOTES.



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(415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING:** Heitz Engineering 199925 N. Half Moon Drive

Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

FILE# 7-C1 APP 107986 WD FIS R SS CHE

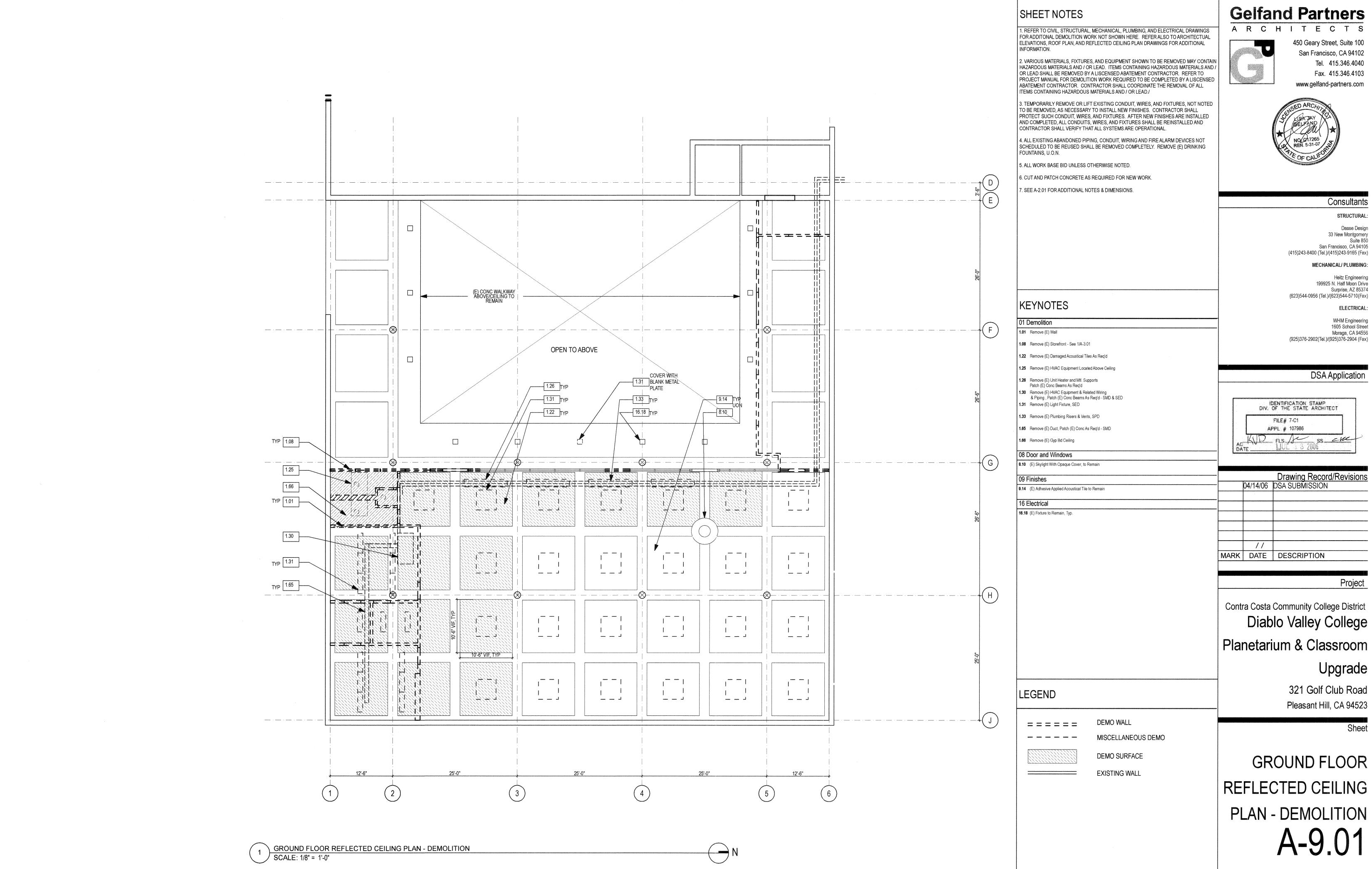
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DATE	DESCRIPTION
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

INTERIOR ELEVATIONS -RESTROOMS

DSA SET



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STRUCTURAL:

San Francisco, CA 94105

Heitz Engineering 199925 N. Half Moon Drive

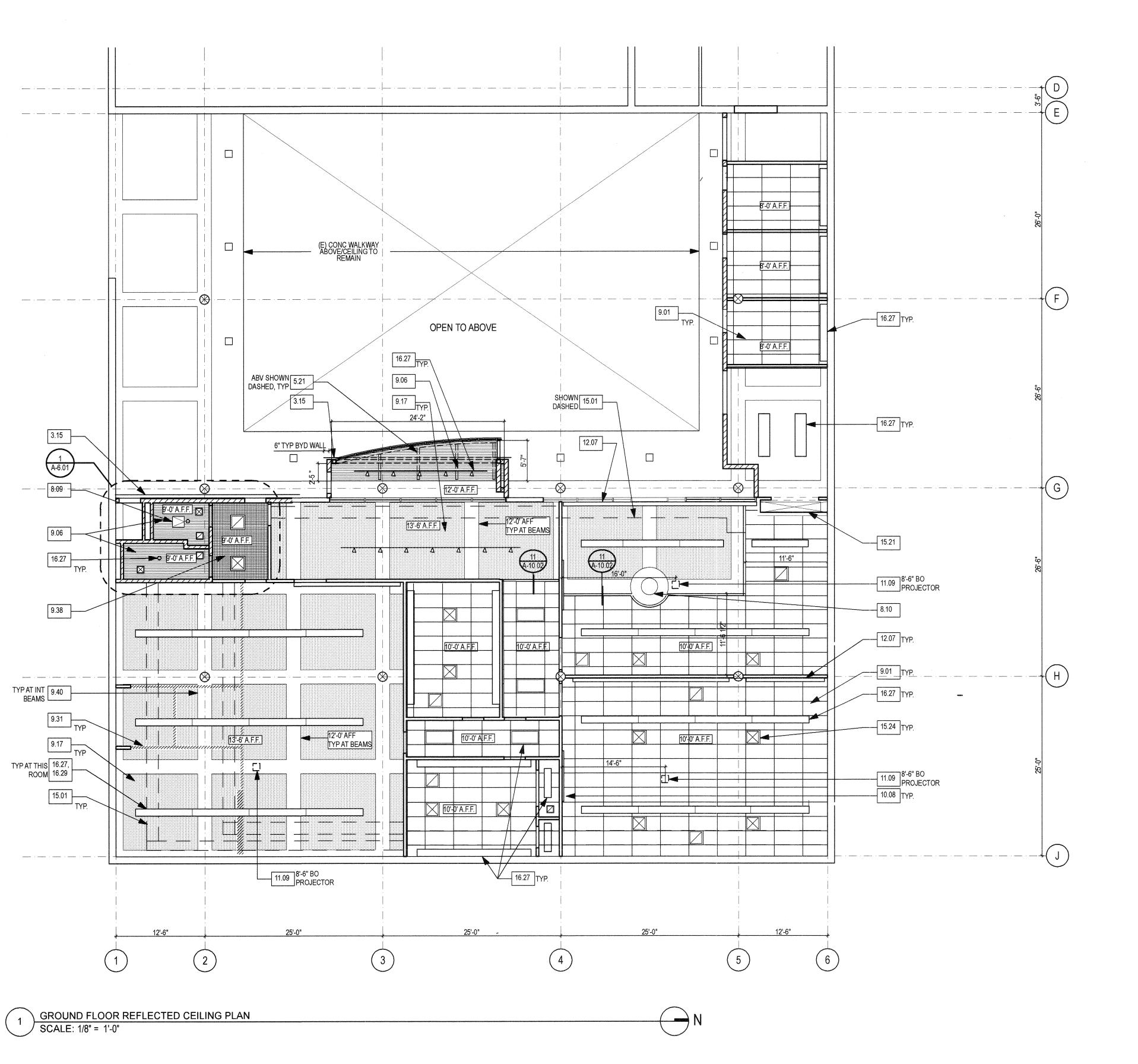
Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax) ELECTRICAL:

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

Diablo Valley College

321 Golf Club Road

DSA SET



SHEET NOTES

1. SEE A-2.02 FOR ADDITIONAL NOTES & DIMENSIONS.

2. SEE A-5.01 FOR WALL TYPES

B. SED FOR ALL FIRE ALARM AND LIGHTING SYSTEMS.

4. SEE 2/A-10.01 FOR NON-BEARING PARTITION ANCHORAGE.

PATCH EXISTING WALLS, FLOORS, CEILINGS & FINISHES TO MATCH EXISTING AND PRIME AND PAINT EXISTING WALLS AND CEILINGS TO NEXT WALL.

6. REPAIR ALL DEMO CONNECTIONS AND REPAIR ALL NEW TO EXISTING CONNECTIONS AS REQUIRED INCLUDING UT NOT LIMITED TO WINDOWS, DOORS & FINISHES.

7. CUT AND PATCH CONCRETE AS REQUIRED FOR NEW WORK.



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DSA Application

STRUCTURAL:

Heitz Engineering 199925 N. Half Moon Drive

Surprise, AZ 85374

ELECTRICAL:

WHM Engineering 1605 School Street

Moraga, CA 94556

Dasse Design 33 New Montgomery

KEYNOTES

03 Concrete 3.15 Sawcut 1/4" Reglet in Underside (E) Conc. Slab 05 Metals

08 Door and Windows

8.09 Access Door **8.10** (E) Skylight With Opaque Cover, to Remain

5.21 Stl Framing, SSD - Paint Where Exposed

09 Finishes

9.01 Suspended Metal Framed Acoustic Tile Ceiling

9.06 Gypsum Wallboard, Paint 9.17 Adhesive Applied Tile Ceiling, Replace as Req'd

9.31 Patch AAT at Removed Walls As Req'd

9.38 1 HR Rated GWB Ceiling - See R/A-5.01

9.40 Paint Exposed Concrete Beam

10.08 Projection Screen, OSCI

10 Specialties

11 Equipment

11.09 Video Projector, NIC

12 Furnishing

12.07 Manual Control Window Shade, OSCI

15 Mechanical

15.21 HVAC Shaft, SMD 15.24 Supply Air Register, SMD

16 Electrical

LEGEND

DEMO WALL

DEMO SURFACE

EXISTING WALL

GYP BD CEILING

MISCELLANEOUS DEMO

ADHESIVE APPLIED ACOUSTICAL TILE

1-HR RATED GYP BD CEILING

16.27 Light Fixture, SED 16.29 Seismically Brace Light Fixture, SED APP # 107986

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Upgrade

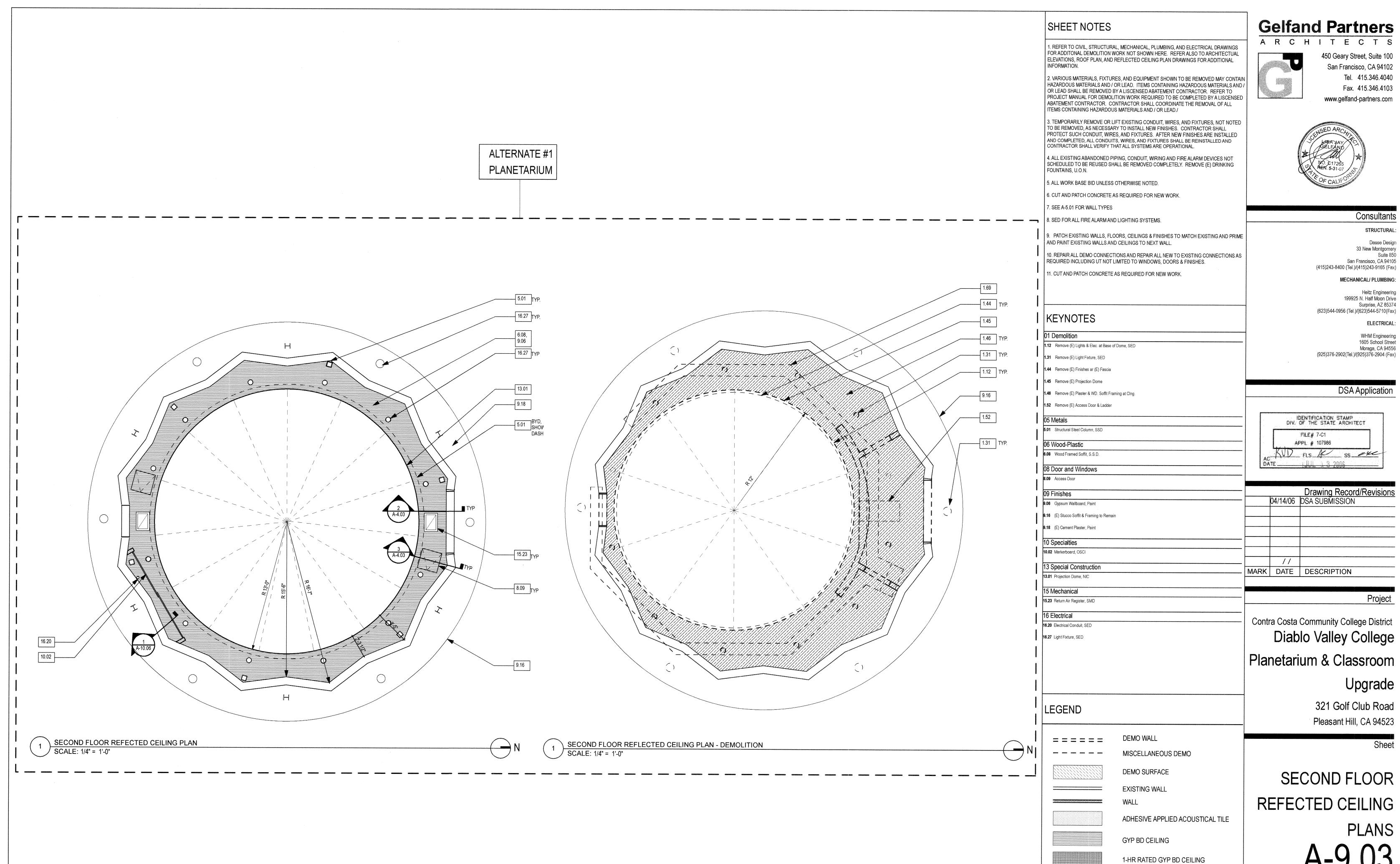
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GROUND FLOOR REFLECTED CEILING

PLAN

MISCELLANEOUS NEW

DSA SET



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> Consultants STRUCTURAL:

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Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

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04/14/06 DSA SUBMISSION

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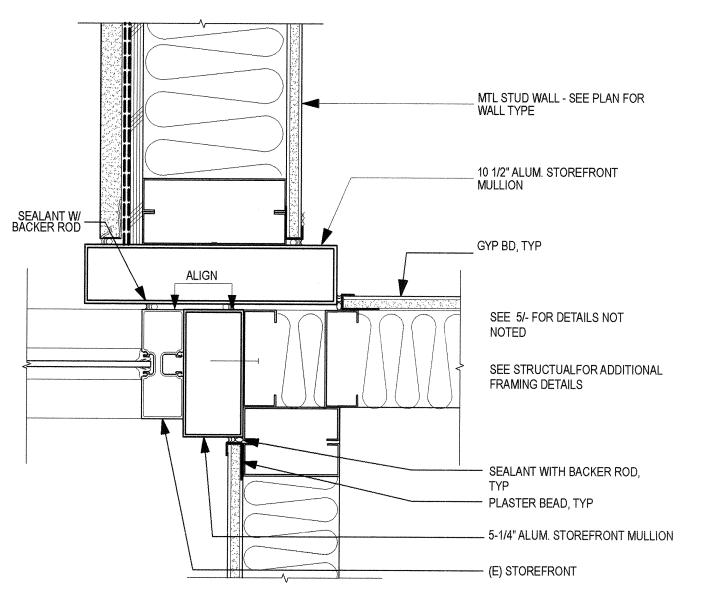
Diablo Valley College Planetarium & Classroom

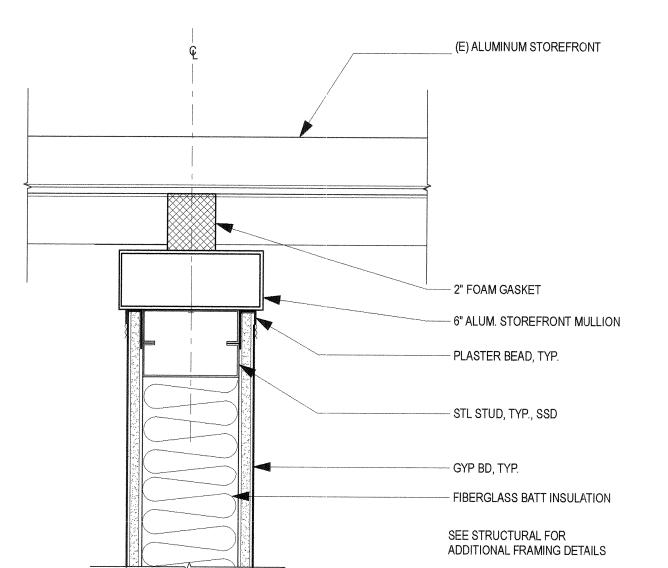
321 Golf Club Road

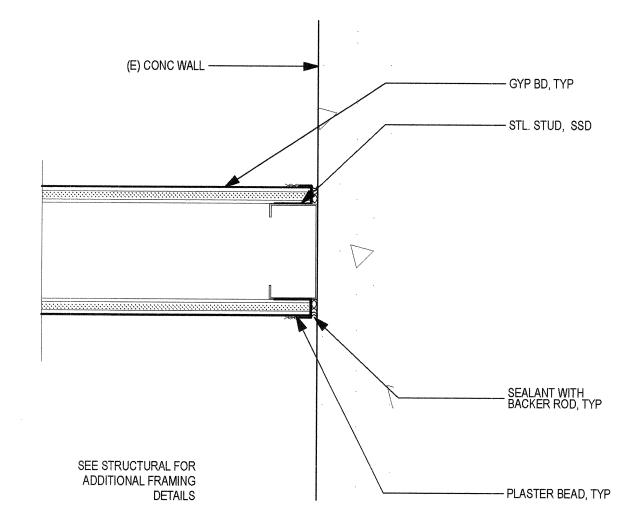
SECOND FLOOR REFECTED CEILING **PLANS**

DSA SET

MISCELLANEOUS NEW







INT WALL TO (E) STOREFRONT-PARALLEL SCALE: 3" = 1'-0"

CEMENT PLASTERPLYWD SHEATHING

- 2 LAYERS BUILDING PAPER

- (E) ALUM. STOREFRONT

SEE STRUCTURAL FOR

ADDITIONAL FRAMING DETAILS

- SEALANT WITH BACKER ROD

7 1/2" ALUM. STOREFRONT

CEMENT PLASTER STOP

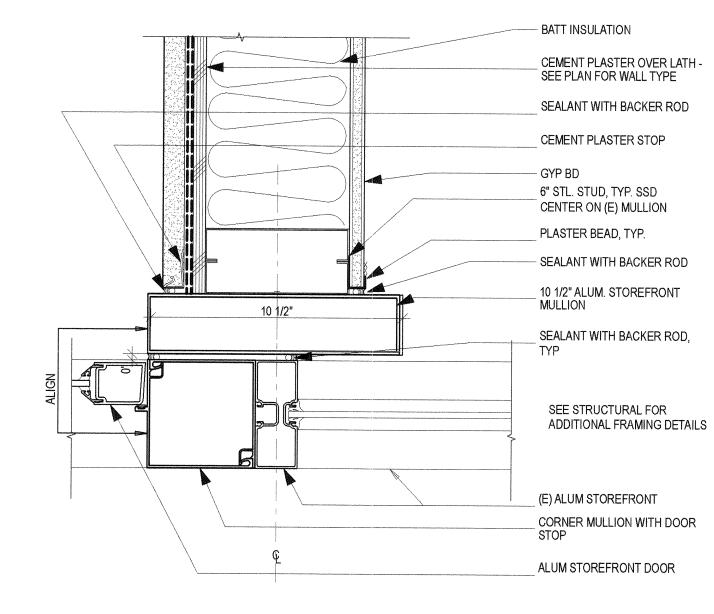
6" STL. STUD, TYP. SSD

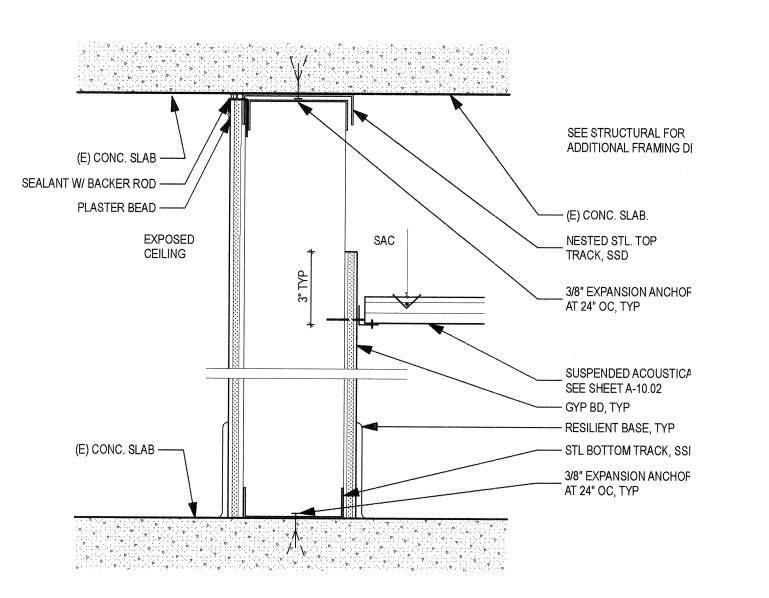
ALUM REGLET

BATT INSULATION

6 INT. WALL TO (E) STOREFRONT- PERPEND. SCALE: 3" = 1'-0"

STUD WALL TO (E)CONC. WALL SCALE: 3" = 1'-0"





HEAD & SILL @ WALL AC UNIT SCALE: 1 1/2"= 1'-0"

STL STUD SILL, SSD

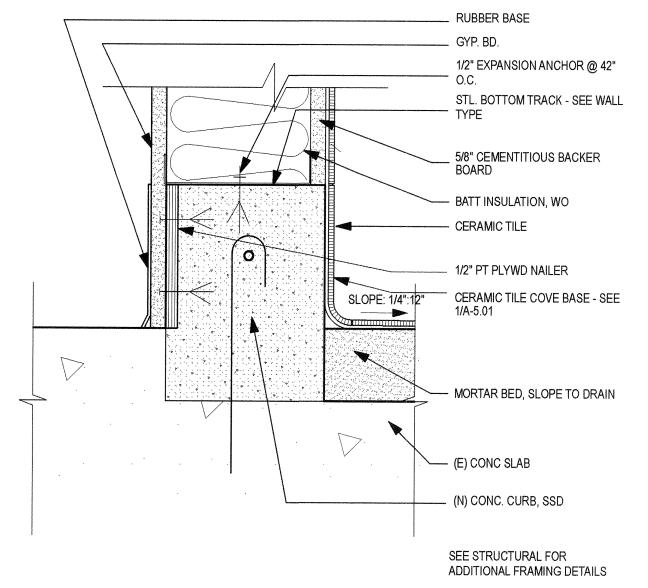
RUBBER BASE

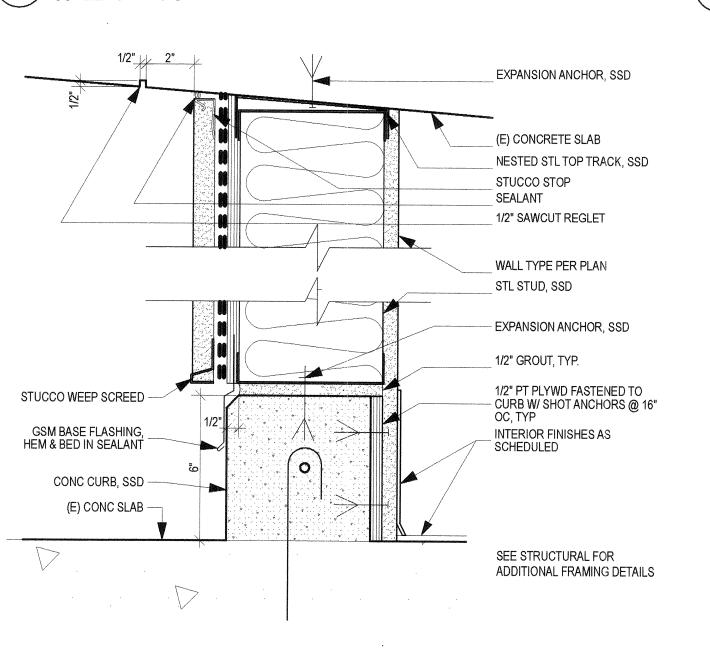
1'-1 3/4"

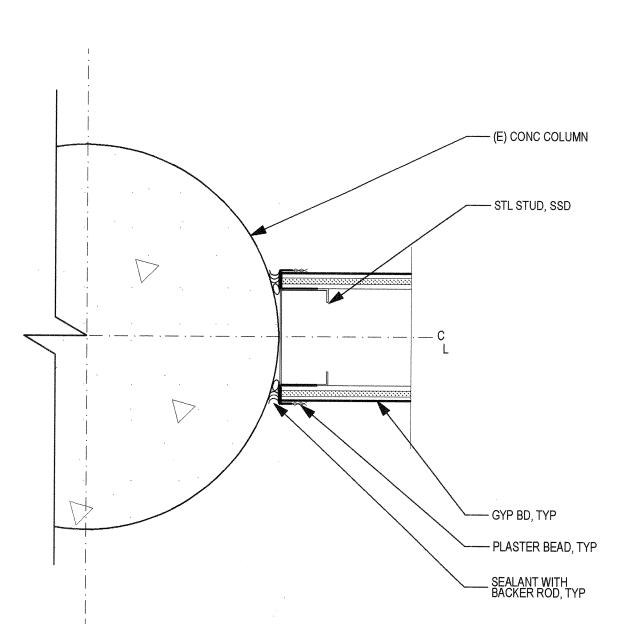
8 EXT WALL TO (E) STOREFRONT-PARALLEL SCALE: 3" = 1'-0"

EXT. WALL TO (E) STOREFRONT - PERPEND. SCALE: 3" = 1'-0"

TYP SECTION AT INTERIOR WALL SCALE: 3" = 1'-0"









CEMENT PLASTER O/ LATH
CEMENT PLASTER WEEP

SCREED

GSM FLASHING

SEALANT
 STL STUD HEADER, SSD

WALL AC UNIT IN WALL SLEEVE,

GSM SILL PAN W/ END DAM, HEM & BED IN SEALANT

CONC CURB, SEE 7/A10.01

1/2" PLYWOOD SHEATHING

ALUM CHANNEL SCREED

2 LAYERS BLDG PAPER

CEMENT PLASTER OVER METAL LATH

SILL PAN (N.T.S.)

HEAD/SILL AT (N) EXT. WALL

SCALE: 3" = 1'-0"

WALL CONNECTION TO COLUMN

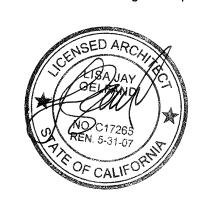
SCALE: 3" = 1'-0"

Gelfand Partners

ARCHITECTS



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Consultants

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DSA Application

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FILE 7-C1

APPL 107986

KUD FLS 107986

ACC 1JUL 13 2006

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Project

Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom

Upgrade

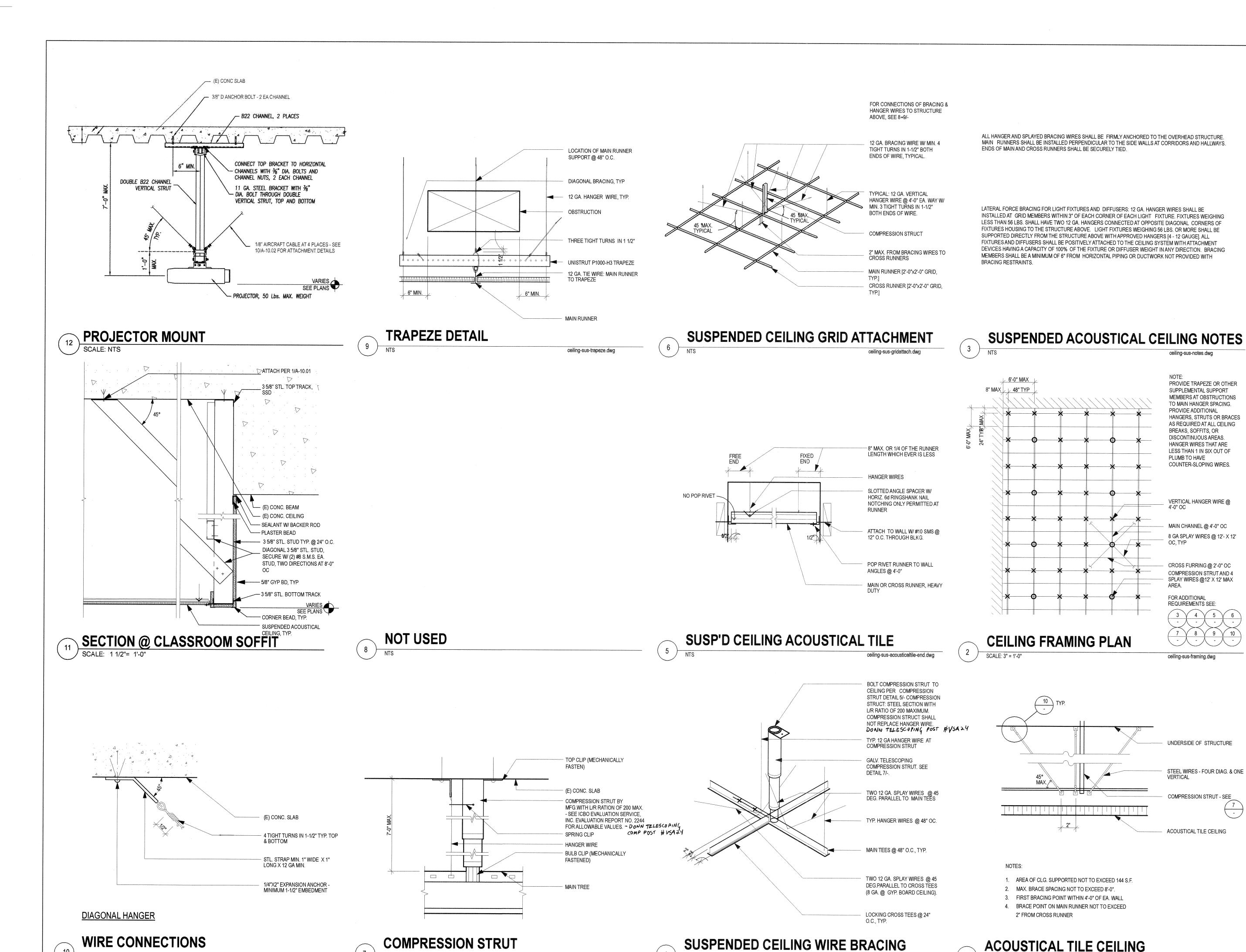
321 Golf Club Road Pleasant Hill, CA 94523

Shee

WALL DETAILS

A-10.01

DSA SET



ceiling-sus-compressionstrut.dwg

ceiling-sus-wirebracing.dwg

ceiling-sus-wireconnection.dwg

Gelfand Partners ARCHITECTS

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Consultants

STRUCTURAL:

33 New Montgomery San Francisco, CA 94105

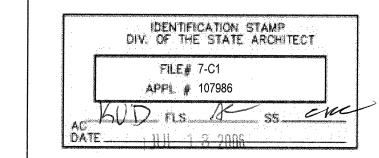
(415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING:**

Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

ELECTRICAL:

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

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321 Golf Club Road

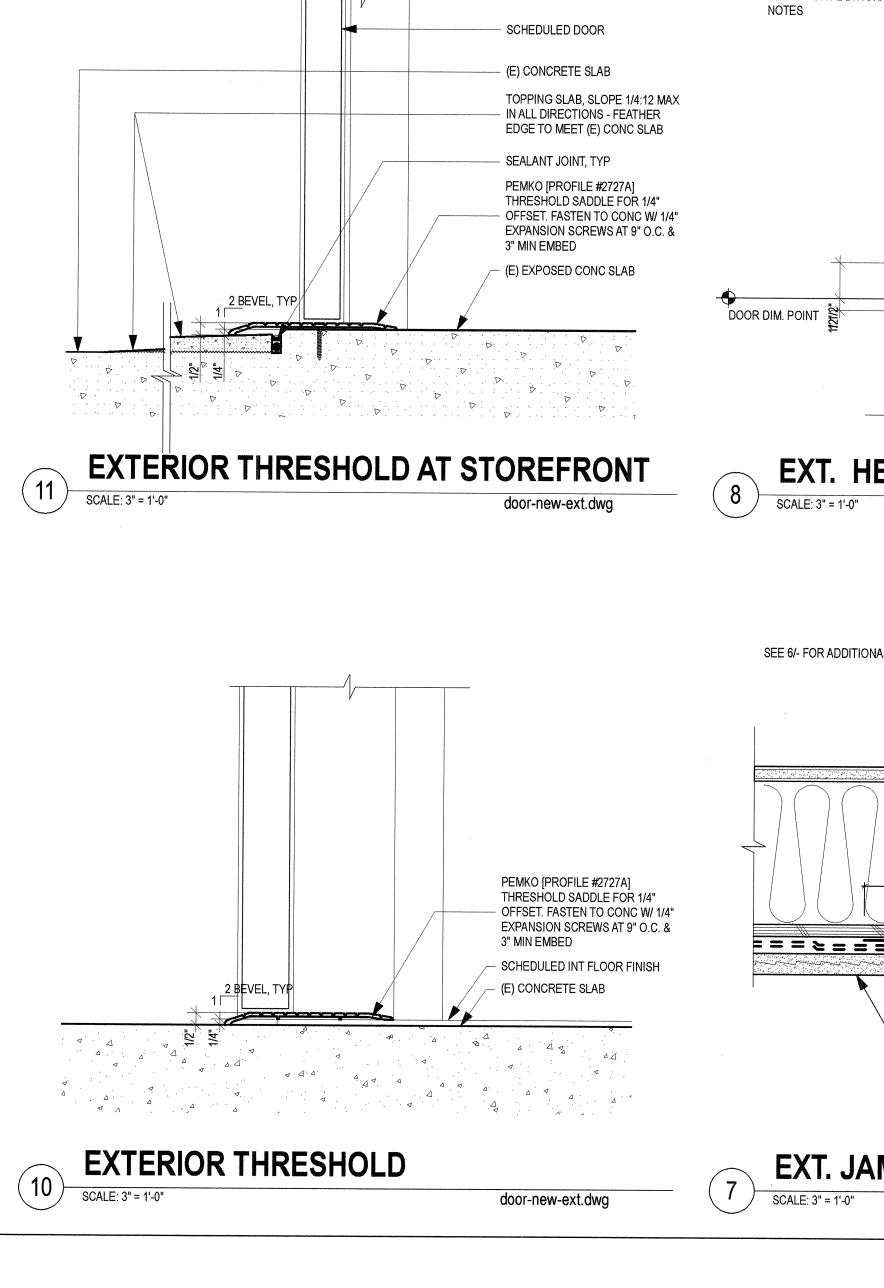
Pleasant Hill, CA 94523

CEILING DETAILS

A-10.02

ceiling-sus-acousticaltile.dwg

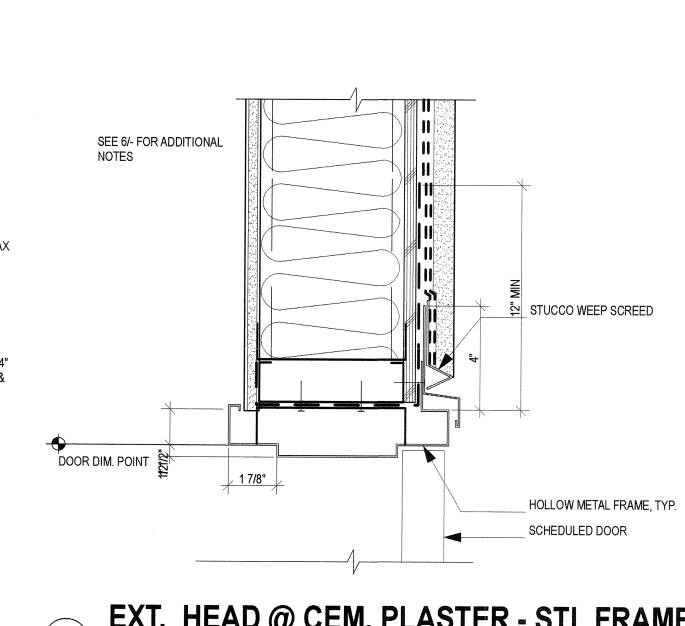
DSA SET



door-new-ext.dwg

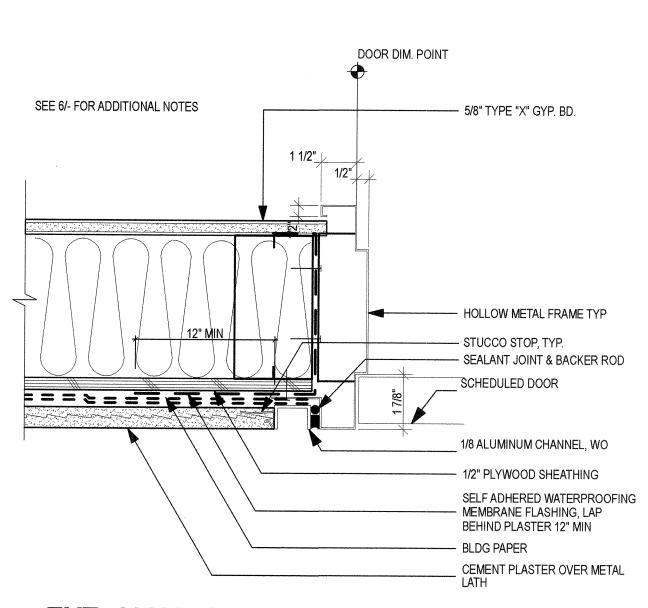
NOT USED

SCALE: 3" = 1'-0"



NOT USED



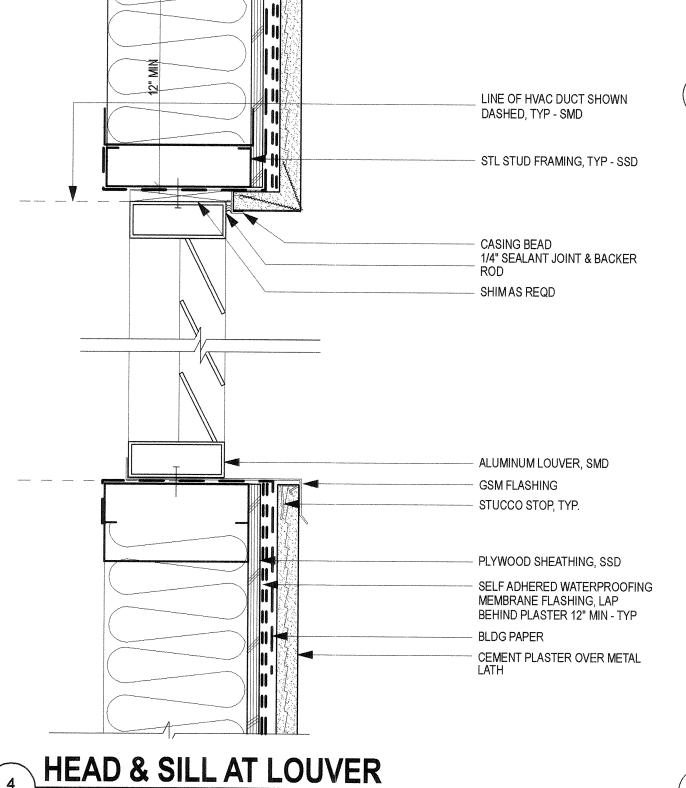


EXT. JAMB @ CEM. PLASTER - STL FRAME

SCALE: 3" = 1'-0" door-new-ext.dwg

4

door-new-ext.dwg



NOT USED

(E) ALUM. STOREFRONT MULLION

APPLIED ALUM. STOREFRONT DOOR

(E) ALUM. STOREFRONT JAMB

APPLIED ALUM. STOREFRONT JAMB

APPLIED ALUM. STOREFRONT JAMB

(E) ALUM. STOREFRONT JAMB

(E) ALUM. STOREFRONT JAMB

WIDE MULLION

ALUM. STOREFRONT DOOR

door_head_cmu.dwg

(N) DOOR @ (E) STOREFRONT

SCALE: 3" = 1'-0" door-new-ext.dwg

(E) STOREFRONT

(E) STOREFRONT

(E) STOREFRONT

(E) STOREFRONT

ALUM. SIDELITE - RAIL PROFILE
TO MATCH EXISTING

(E) STOREFRONT BEYOND

WOOD SHIM

SEALANT, TYP.

(E) CONC. SLAB

(N) SIDELITE @ (E) STOREFRONT

SCALE: 3" = 1'-0" door-new-ext.dwg

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Consultants

STRUCTURAL:

Dasse Design

33 New Montgomery Suite 850 San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) MECHANICAL/ PLUMBING:

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ELECTRICAL:

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DSA Application

DIV. OF THE STATE ARCHITECT

FILE 7-C1

APPL 107986

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Project

Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom

Upgrade

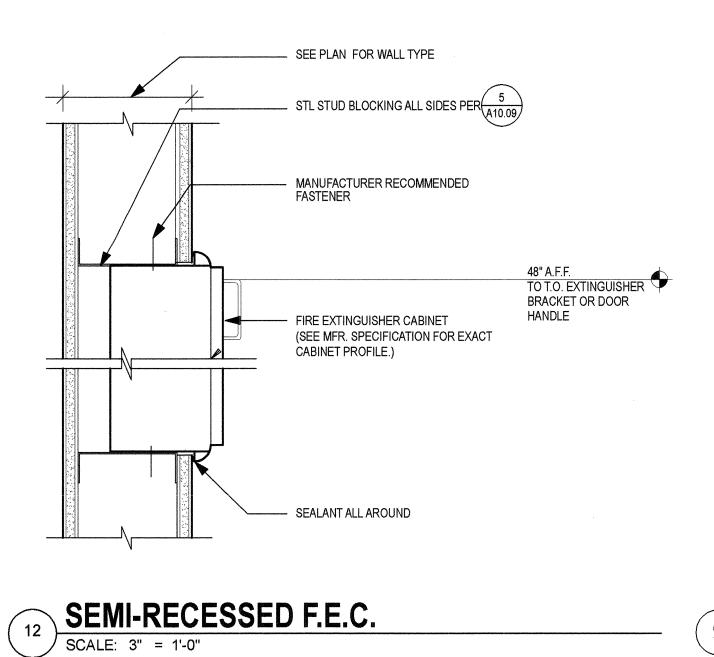
321 Golf Club Road Pleasant Hill, CA 94523

Sheet

EXTERIOR DOOR DETAILS

A-10.03

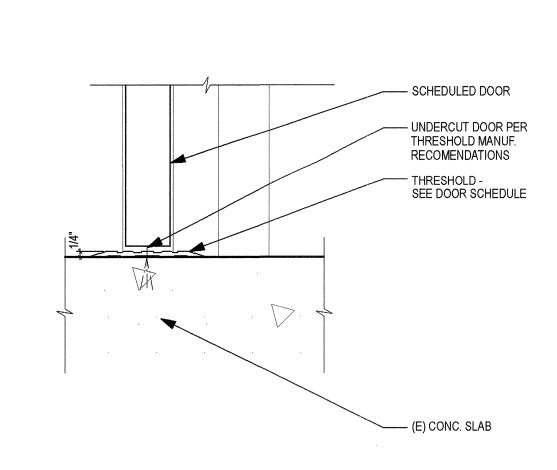
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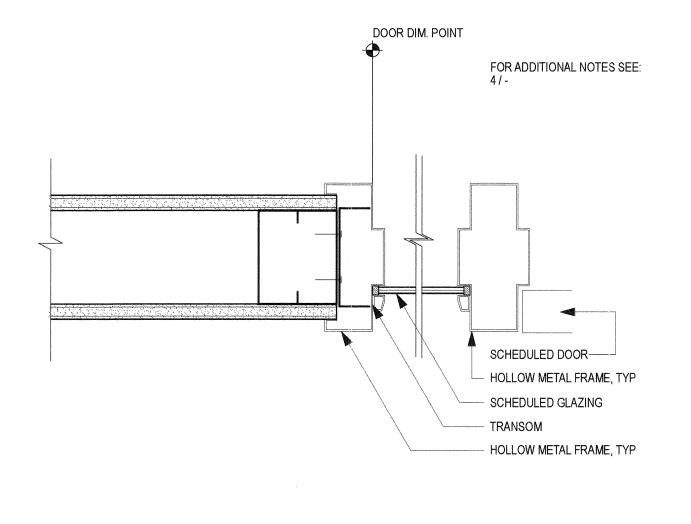


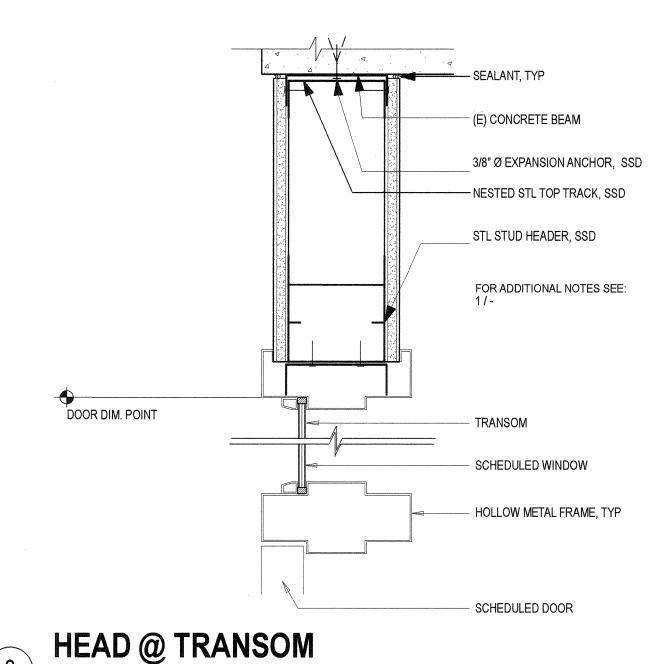
SECTION AT WINDOW SHADE

SCALE: 3" = 1'-0"

INT. RATED THRESHOLD @ C.T.







door-new-int.dwg

- 5/8" TYPE "X" GYP. BD.

STL STUD HEADER, SSD

(2) #12 X 2" SMS TYP.,

STL STUD ANCHOR WELDED TO

FRAME - FASTEN EA ANCHOR W/

(3)ANCHORS PER JAMB AND (2) AT HEAD OF SINGLE DOORS OR (3) AT HEAD OF DOUBLE DOORS.

1/2" MIN. OVERLAP AT RATED

HOLLOW METAL FRAME, TYP.

SCHEDULED DOOR

Gelfand Partners

ARCHITECTS

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Fax. 415.346.4103

Consultants STRUCTURAL Dasse Design 33 New Montgomery Suite 850

San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

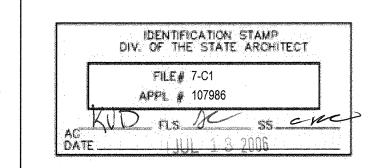
MECHANICAL/ PLUMBING:

199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

321 Golf Club Road

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INTERIOR DOOR & WINDOW DETAILS

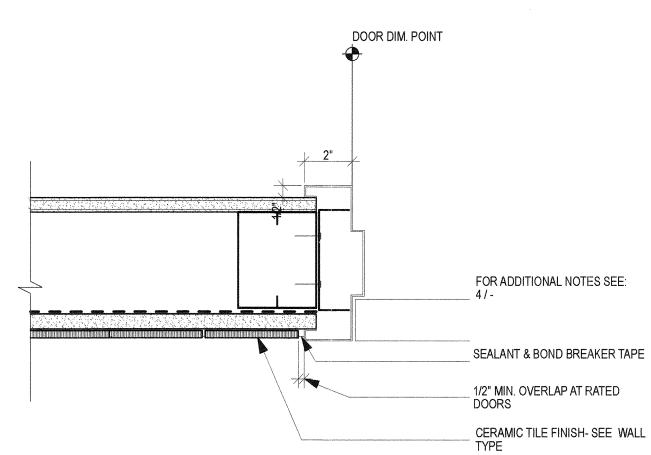
A-10.04

DSA SET

04-14-06

INTERIOR RATED THRESHOLD door-new-int.dwg





FOR ADDITIONAL NOTES SEE: STL STUD FRAMING, SSD - SCHEDULED GLAZING STL GLAZING STOP - FASTEN TO - H.M. FRAME AT CLASRROM SIDE OF WINDOW HOLLOW METAL FRAME, TYP

WALL TYPE PER PLAN

BLOCKING AS REQD, SEE 5/A-10.09

- WALL MOUNT ANGLE, BY MFR.

MANUAL WINDOW SHADE, OSCI

SUSPENDED ACOUSTICAL

CLOSURE MOUNT & CLOSURE, BY MFR.

WINDOW, AS SCHEDULED

— UNDERCUT DOOR PER THRESHOLD MANUF. RECOMENDATIONS

SCHEDULED DOOR

SCHEDULED DOOR FRAME BEYOND

C.T. MORTAR BED

OR TOPPING SLAB

CERAMIC TILE FLOORING

1/4" MAX SEALANT JOINT

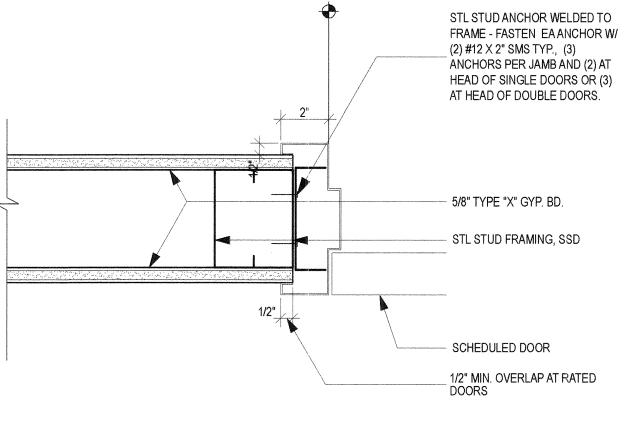
THRESHOLD -SEE DOOR SCHEDULE

- (E) CONC. SLAB

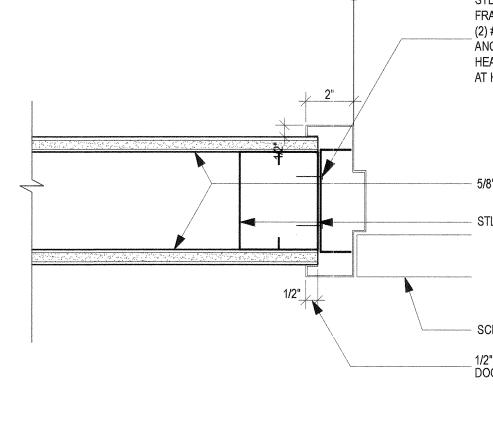
door-new-int.dwg

JAMB @ CLERESTORY WINDOW





DOOR DIM. POINT



SCHEDULED GLAZING 2 1/2" DOOR DIM. POINT STL GLAZING STOP, FASTEN TO H.M. FRAME - LOCATE AT CLASSROOM SIDE OF WINDOW H.M. FRAME STL STUD SILL, SSD 5/8" TYPE "X" GYP. BD.

SILL @ CLERESTORY WINDOW

JAMB @ GWB

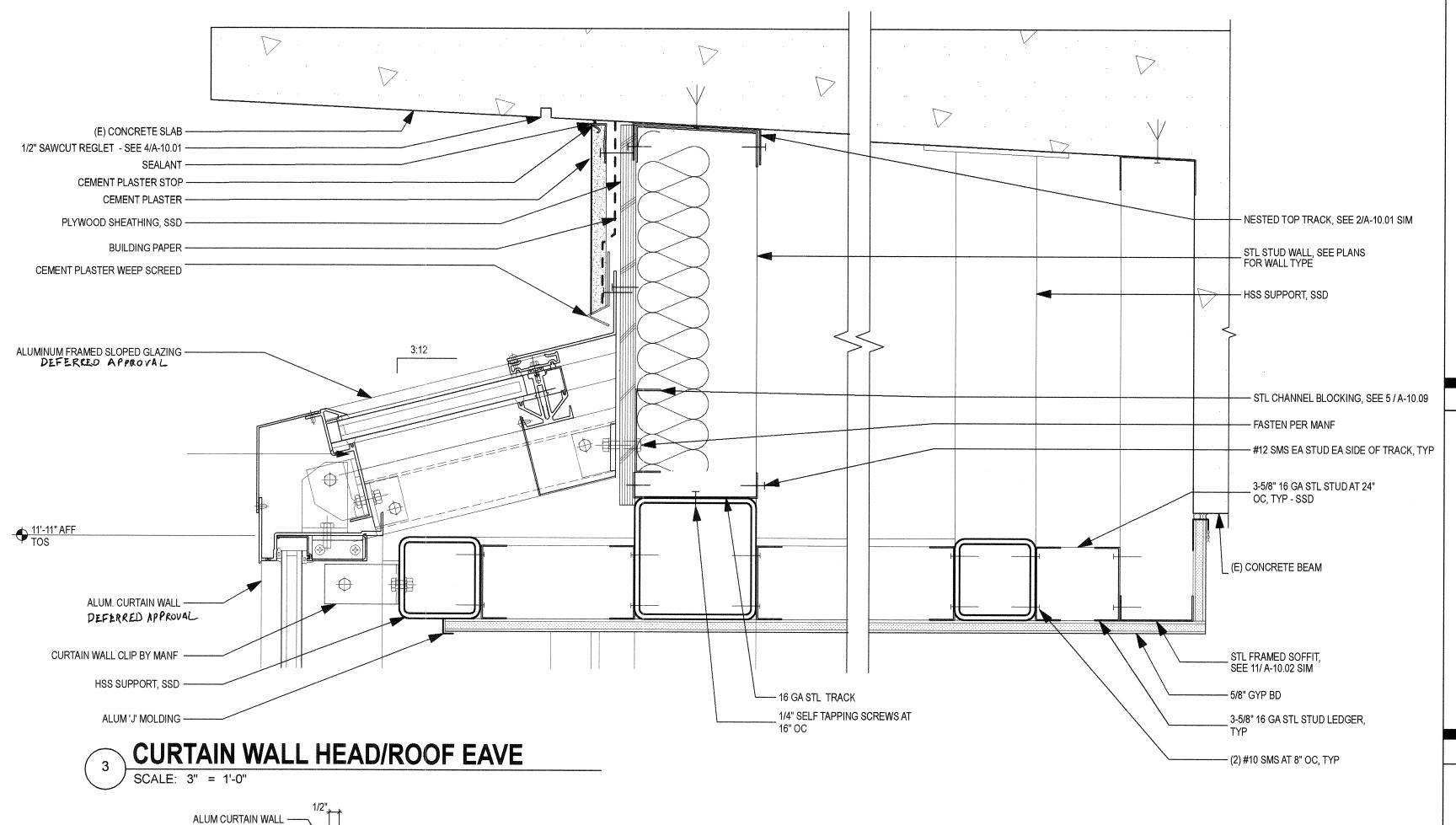
HEAD @ GWB

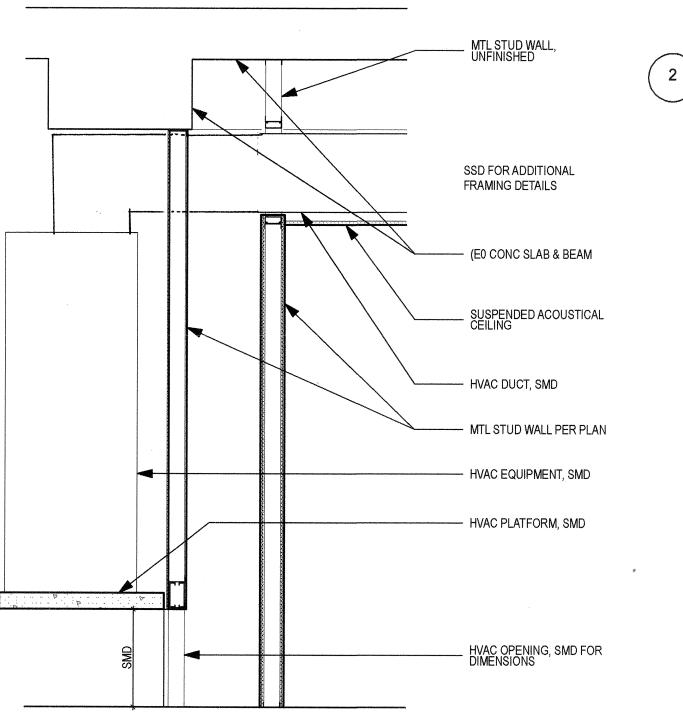
DOOR DIM. POINT

NOT USED

door-new-int.dwg

door-new-int.dwg door-new-int.dwg





SECTION AT MECHANICAL SHAFT

CORNER BEAD CEMENT PLASTER PLYWD SHEATHING **BUILDING PAPER** CEMENT PLASTER STOP SEALANT WITH BACKER ROD ALUM CURTAIN WALL

HSS COLUMN, SSD

STL STUD WALL, SSD

MTL CHANNEL FURRING, TYP

SEALANT WITH BACKER ROD -

EXPANSION MAT'L AND SEALANT — (E) CONCRETE SLAB, SSD

> REBAR TIE IN GROUT, SSD STL REINFORCING, SSD ---

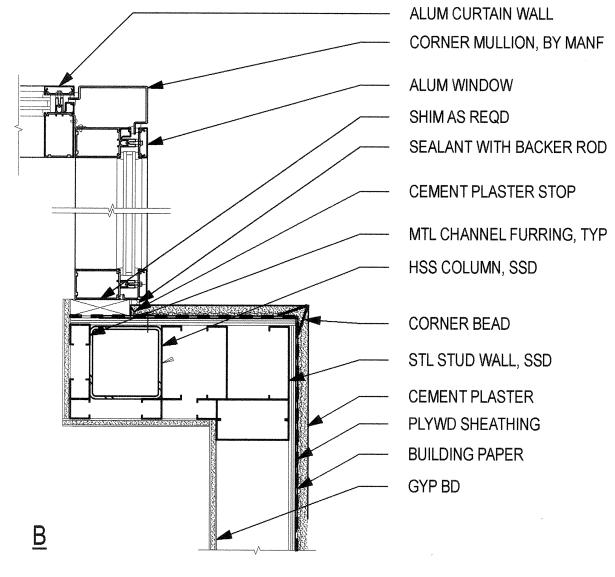
CURTAIN WALL SILL

SCALE: 3" = 1'-0"

CURTAIN WALL JAMB

SCALE: 1 1/2"= 1'-0"

CONCRETE SLAB, SSD ----



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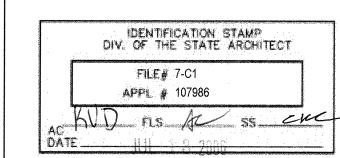
ARCHITECTS 450 Geary Street, Suite 100 San Francisco, CA 94102 Tel. 415.346.4040 Fax. 415.346.4103 www.gelfand-partners.com

> Consultants STRUCTURAL: Dasse Design 33 New Montgomery San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) MECHANICAL/ PLUMBING: Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

ELECTRICAL: WHM Engineering 1605 School Street

Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application



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***************************************		Drawing Record/Revision
	04/14/06	DSA SUBMISSION
-	//	
MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Upgrade

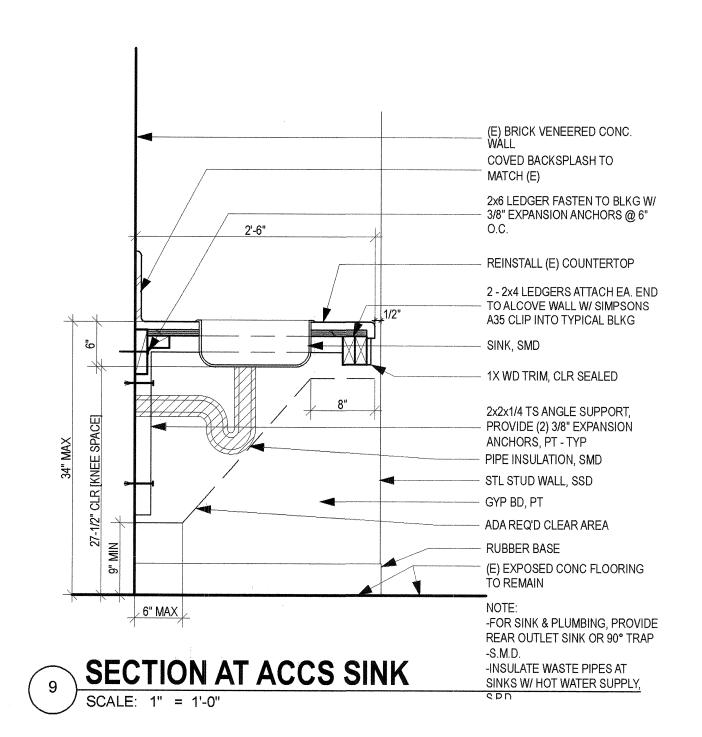
321 Golf Club Road Pleasant Hill, CA 94523

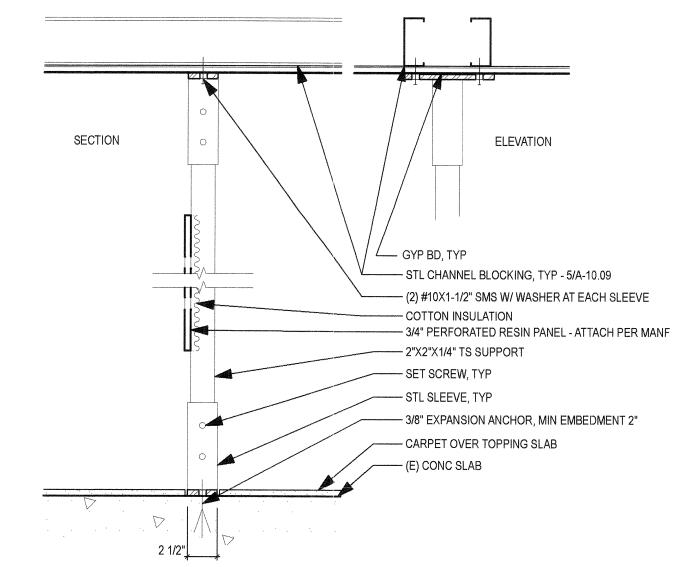
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CURTAIN WALL DETAILS

A-10.05

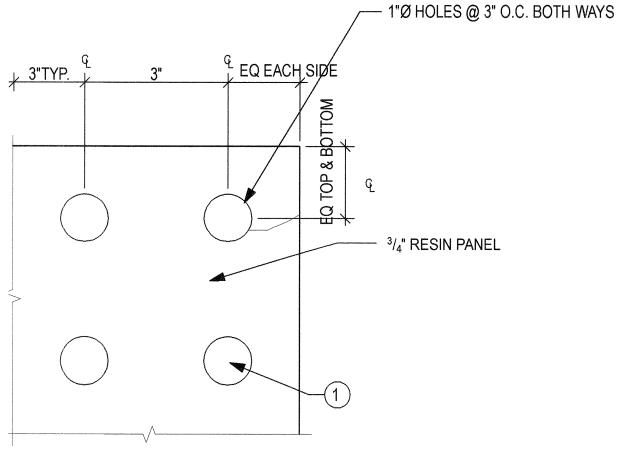
DSA SET





ATTACHMENT AT ACOUSTICAL PANEL

SCALE: 1 1/2"= 1'-0"



1 ADHESIVE APPLIED BLACK POLYESTER FABRIC ON HIDDEN SIDE OF PLYWOOD. FABRIC MUST CONFORM TO ASTM E84, WITH FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED 50 OR LESS.

- STL TOP TRACK, SSD

- ANGLE CLIP BY MANF @ 2'-0" OC. FASTEN WITH #8X 2-1/2" SCREWS,

- STL CHANNEL BLOCKING, TYP -

SEE 5/A-10.09

- (E) CONC WALL

- STL STUD FRAMING, SSD

6'-2" A.F.F.

- MARKERBOARD SLIDING PANEL WITH MAPRAIL & CORK FASCIA AND

INTEGRAL CHALKTRY, OSCI

- MARKERBOARD, OSCI

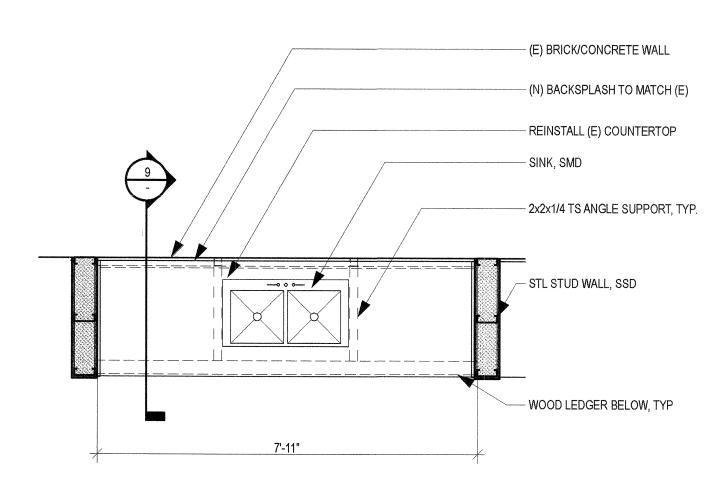
7'-0" A.F.F.

ACOUSTICAL PERFORATIONS SCALE: 6" = 1'-0"

2-1/2" CLR

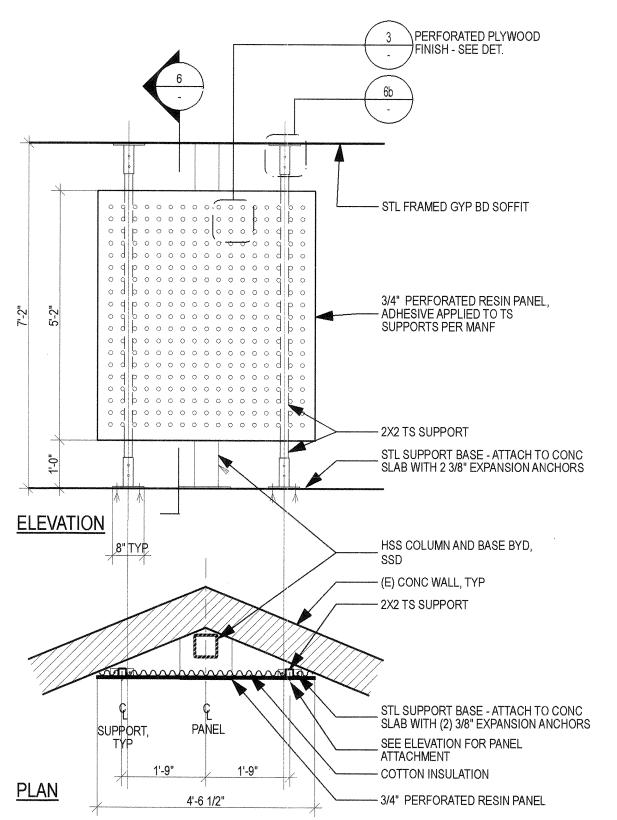
ACCESSIBLE SINK & FAUCET, - REINSTALL (E) COUNTERTOP BACKSPLASH TO MATCH (E) — (E) BACKSPLASH - (E) CABINET, TYP. - WOOD TRIM STL STUD WALL, SSD 30" MIN CLR - RUBBER BASE 2x2x1/4 TS STEEL BRACKET, PT PIPE INSULATION, TYP - SMD NOTE: SEE 7&9/- FOR DIMENSIONS



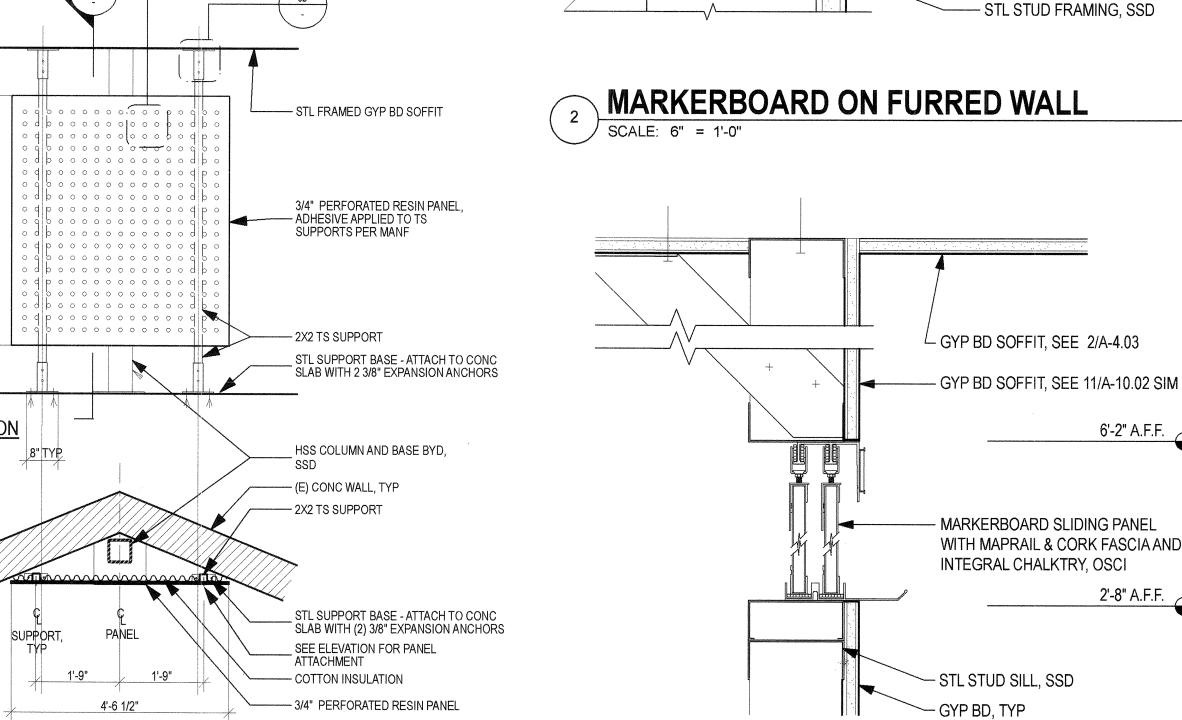


7 PLAN @ ACCESSIBLE SINK

SCALE: 1/2" = 1'-0" casework-sink.dwg



PLAN AT ACOUSTICAL PANEL



SECTION AT MARKER BOARD SCALE: 3" = 1'-0"

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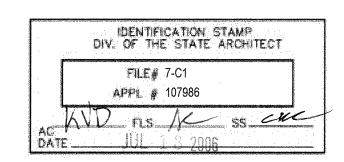
STRUCTURAL: Dasse Design 33 New Montgomery Suite 850

San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING:**

Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax) ELECTRICAL:

WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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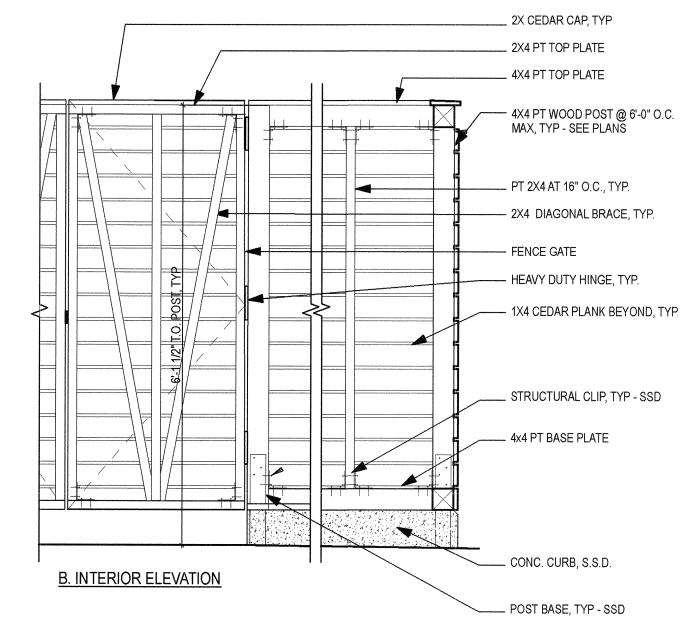
Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade

> 321 Golf Club Road Pleasant Hill, CA 94523

MISCELLANEOUS **DETAILS**

A-10.06

DSA SET



38

- FLOOR TYPE PER SCHEDULE

(E) CONCRETE SLAB, TYP

SHEET WATER PROOFING

- 6" CRUSHED ROCK SUB BASE.

FILL AT 95% DENSITY.

NATIVE SOIL OR RECOMPACTED

. CEDAR CAP FROM SHAPED 2X8

_ TOP PLATE

4X4 POST, SEE PLANS

- 1X4 CEDAR PLANK, TYP.

SEE 4&5/A-10.07 AND STRUCTURAL

DRAWINGS FOR ADDITIONAL DETAILS

4X4 SILL PLATE

POST BASE, SSD

CONC CURB & FOOTING, SSD

FLUID APPLIED WATERPROOF

PERFORATED DRAINAGE PIPE -DAYLIGHT AT LOW SIDE

A. ELEVATION

MEMBRANE

#4 REBAR AT 24" OC IN GROUT,

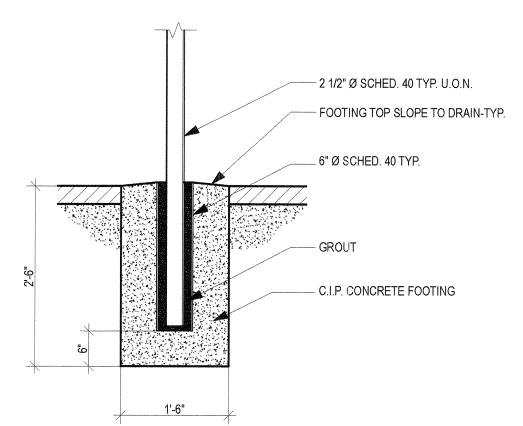
- 4" CONC SLAB

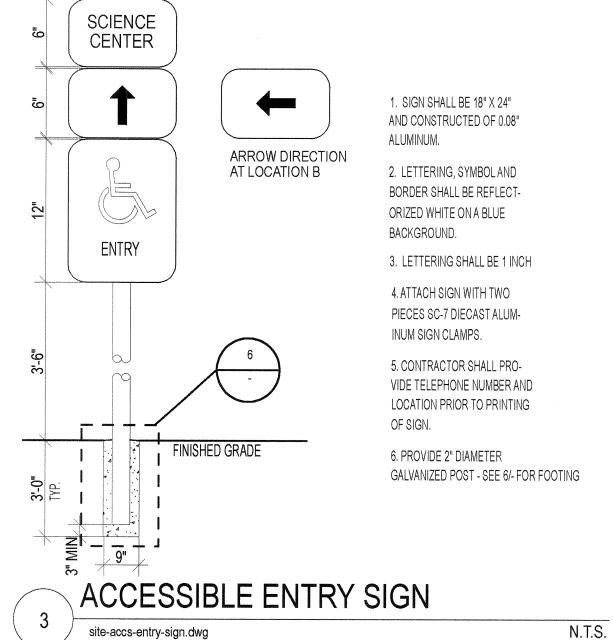
4" MIN EMBED

CONCRETE PATCH AT TRENCHING

SLOPE: 1/4":12"

SCALE: 1' = 1'-0"



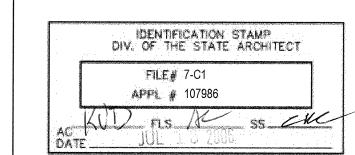


MECHANICAL/ PLUMBING: Heitz Engineering 199925 N. Half Moon Drive Surprise, AZ 85374 (623)544-0956 (Tel.)/(623)544-5710(Fax)

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WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application



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	04/14/06	DSA SUBMISSION
	//	
MARK	DATE	DESCRIPTION

Project

Planetarium & Classroom

321 Golf Club Road

04-14-06

DSA SET

450 Geary Street, Suite 100

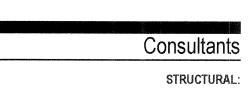
San Francisco, CA 94102

www.gelfand-partners.com

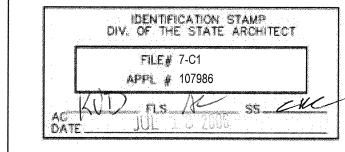
Tel. 415.346.4040 Fax. 415.346.4103

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ARCHITECTS



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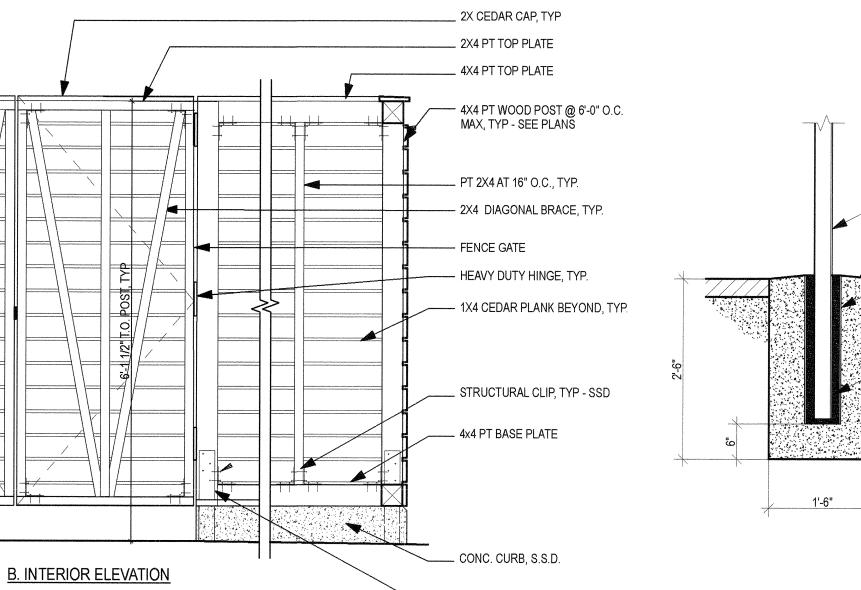
Contra Costa Community College District Diablo Valley College

Upgrade

Pleasant Hill, CA 94523

SITE DETAILS

A-10.07



_ 2X CEDAR CAP, TYP

DASHED, TYP.

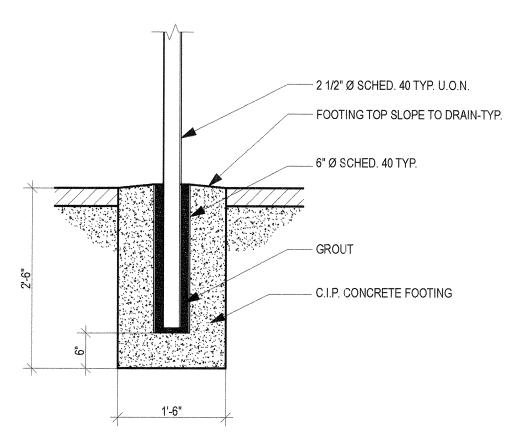
DASHED, TYP.

- FENCE GATE

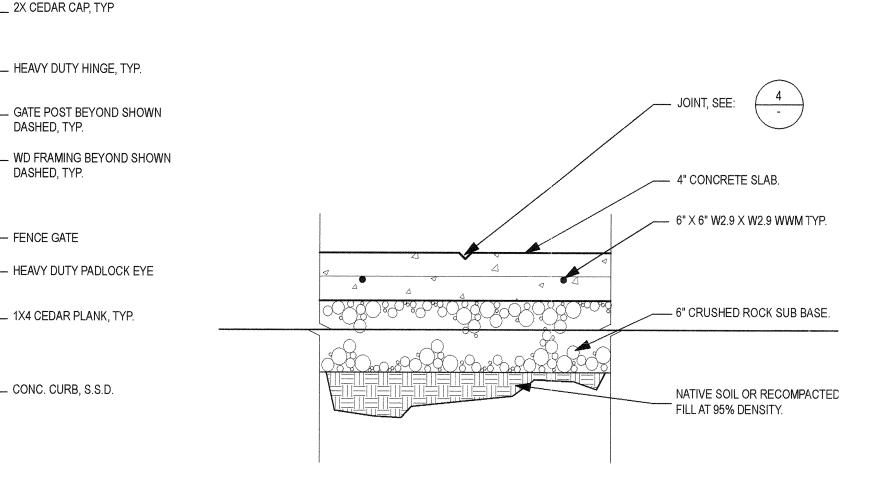
1X4 CEDAR PLANK, TYP.

CONC. CURB, S.S.D.

- HEAVY DUTY HINGE, TYP.

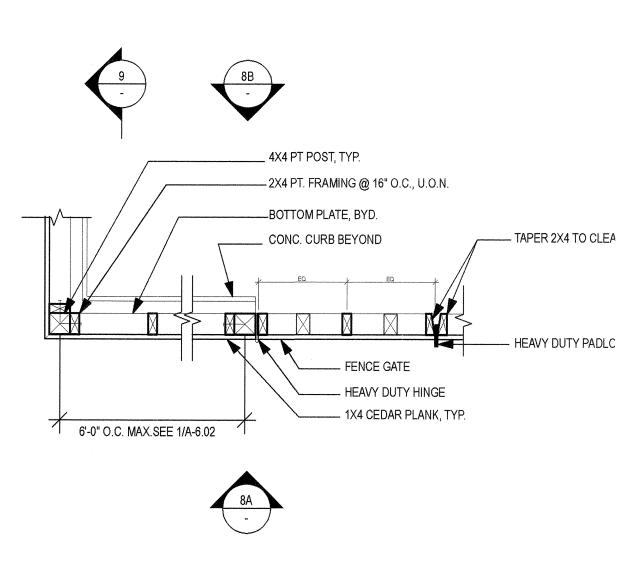


SIGN POST FOOTING SCALE: 3/4" = 1'-0"



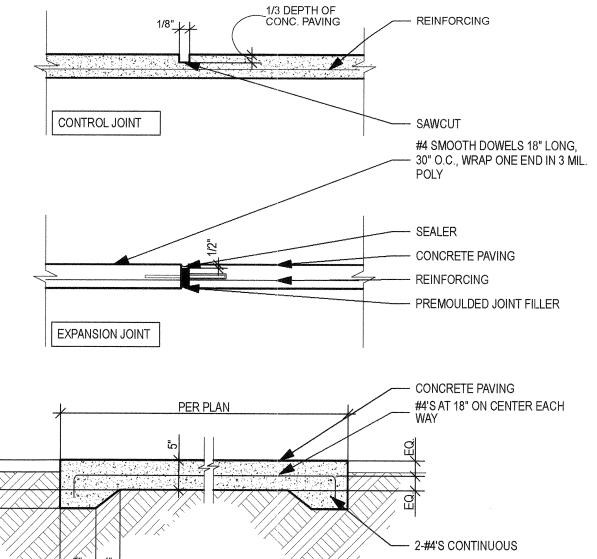
DF BLOCKING BYD, TYP. - SEE BACK PLATE -— 3/8"D X 4" ANCHOR BOLT, TYP ACCESSIBLE DRINKING -RAIL BLOCKING, TYP. - SEE 5/A-FOUNTAIN 1-1/2"Ø TS RAIL -STL STUD WALL - SEE WALL TYPE MOUNTING PLATE AND HARDWARE, PER MANF - CT FINISH - SEE WALL TYPE PROVIDE SEALANT BETWEEN CEMENT PLASTER AND DRINKING FOUNTAIN BACKPLATE. CEMENT PLASTER OVER LATH - SEE PLAN FOR WALL TYPE ______1/4"X2-1/2" LAG SCREW - 4 PER PLATE, TYP - RAIL ANCHOR, TYP 1/4" EXPANSION ANCHORS, 2" MIN EMBED - 4 PER PLATE, TYP CONCRETE CURB ON (E) CONCRETE SLAB - SEE 4/A-10.01 CT FLOOR - SEE Q/A-5.01

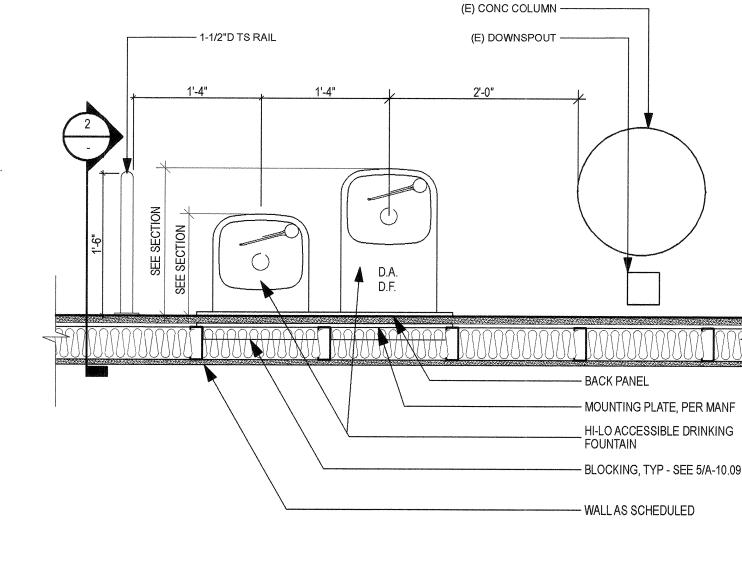
SECTION @ CONCRETE SLAB SCALE: 1' = 1'-0" CHLLER PAD FENCE ELEVATIONS



CHILLER PAD FENCE PLAN

SCALE: 3/4" = 1'-0"





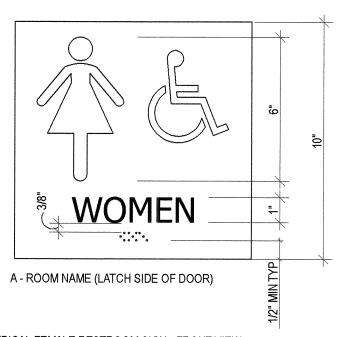
DRINKING FOUNTAIN SECTION

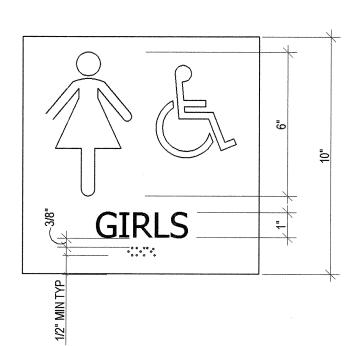
SECTION @ CONCRETE SLAB SCALE: 3/4" = 1'-0"

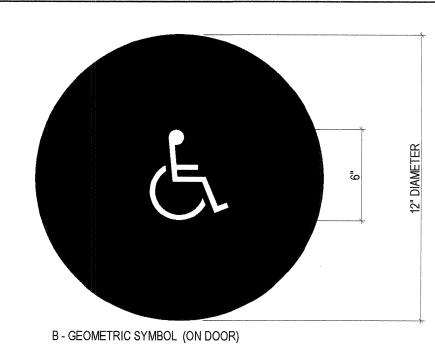
DRINKING FOUNTAIN PLAN

SECTION @ CHILLER PAD FENCE

COVERAGE, TYP

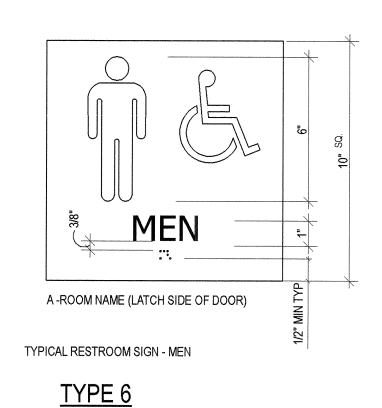


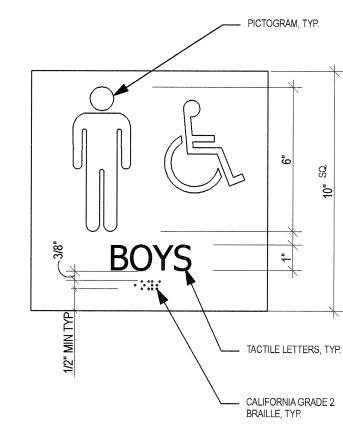


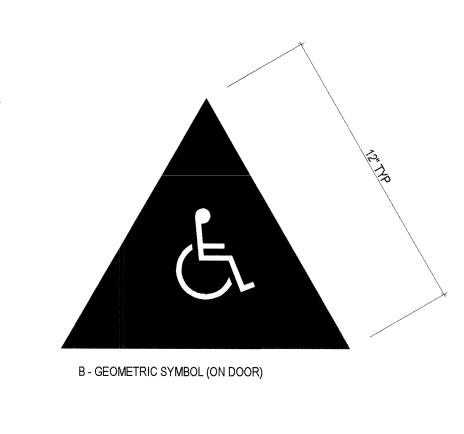


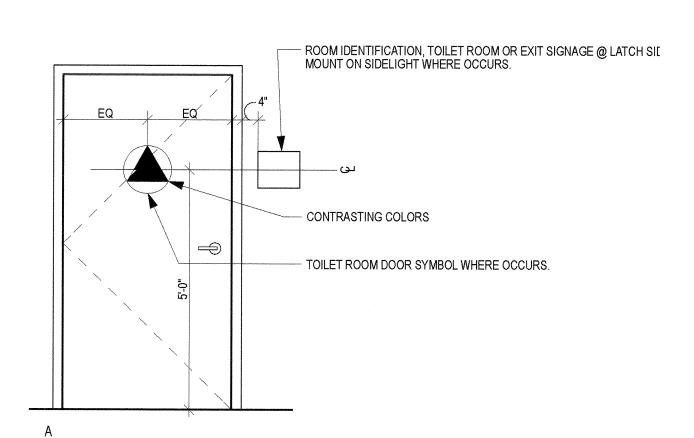
TYPICAL FEMALE RESTROOM SIGN - FRONT VIEW

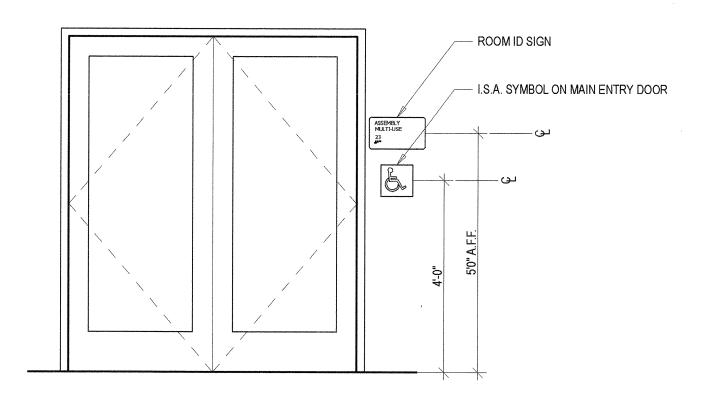
TYPE 7





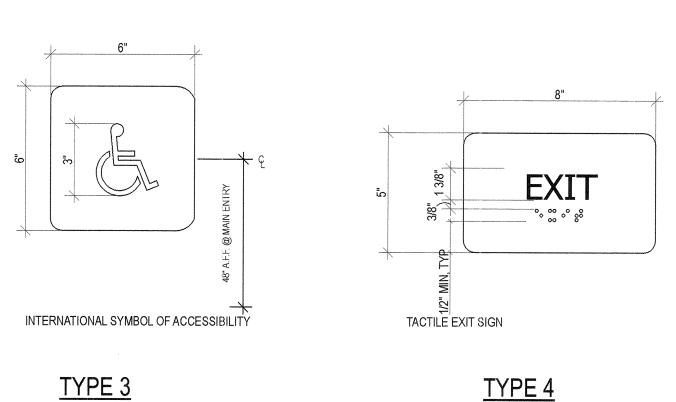


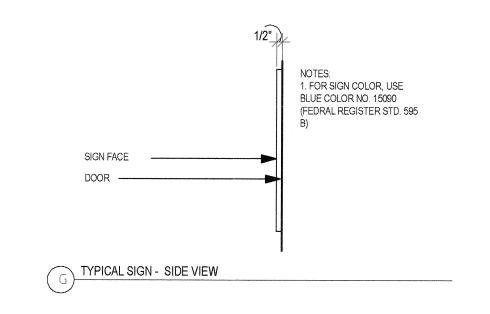


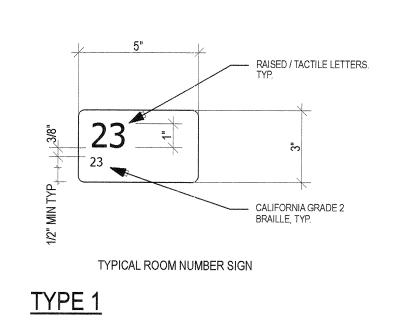


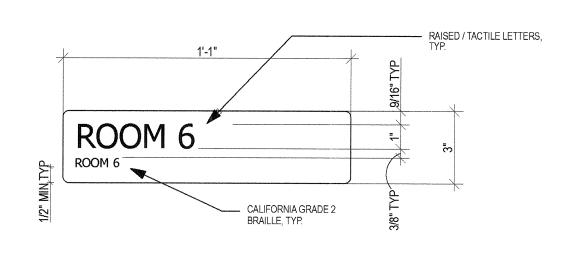
TYPICAL SIGNAGE LOCATIONS











TYPE 2

TYPICAL ROOM NAME SIGN

GENERAL NOTES:

- LETTERS TO BE RAISED MIN. 1/32" (0.794 mm) ABOVE SIGN/PLAQUE SURFACE TYP., TEXT TO BE SANS-SERIF-UPPERCASE ACCOMPANIED BY CALIFORNIA CONTRACTED GRADE 2 BRAILLE.
- 2. ALL SYMBOLS, PICTOGRAMS AND LETTERS TO HAVE A COLOR WHICH CONTRASTS WITH SIGN BACKGROUND COLOR THAT MUST BE 70% MINIMUM AND HAVE A NON-**GLARE FINISH.**
- 3. ALL SIGNS TO HAVE A COLOR WHICH CONTRASTS WITH DOOR COLOR.
- 4. ALL PLAQUES TO HAVE A COLOR WHICH CONTRASTS WITH WALL ADJACENT TO LATCH SIDE OF DOOR.
- 5. REFER TO ELEVATION 1 THIS SHEET FOR SIGN/PLAQUE LOCATION INFO.
- 6. WHERE GLAZING OCCURS ADJACENT TO DOOR, ATTACH PLAQUE WITH ADHESIVE TO GLAZING.
- 7. RAISED CHARACTER SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HIGH.
- 8. CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 117B.5.3
- 9. CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE **BACKGROUND.** 1117B.5.6.

RECOMMENDED ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE

Gelfand Partners ARCHITECTS



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STRUCTURAL: Dasse Design

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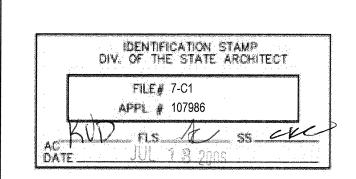
MECHANICAL/ PLUMBING:

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> ELECTRICAL: WHM Engineering 1605 School Street Moraga, CA 94556

(925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application



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Project

Upgrade

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

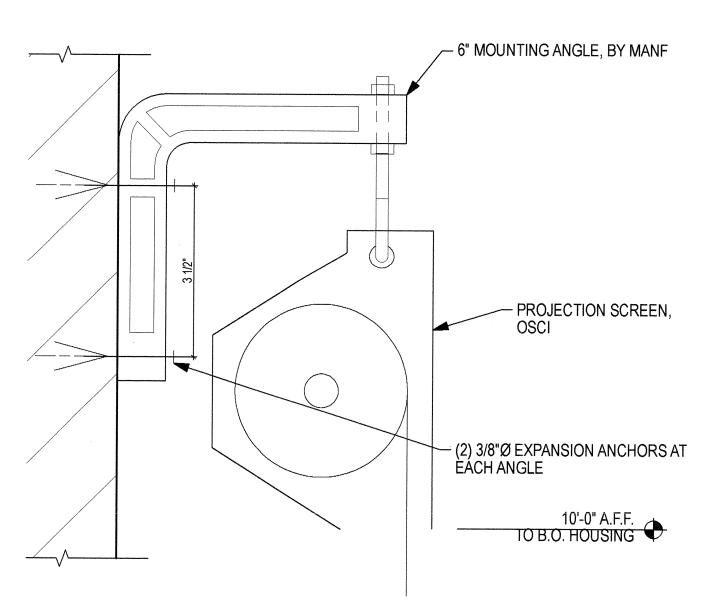
321 Golf Club Road

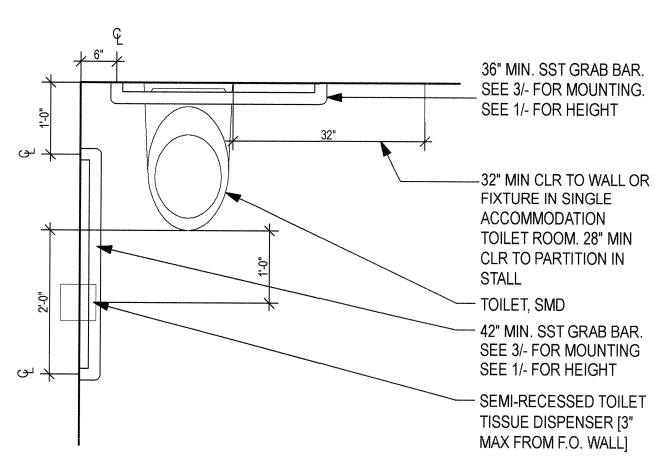
Pleasant Hill, CA 94523

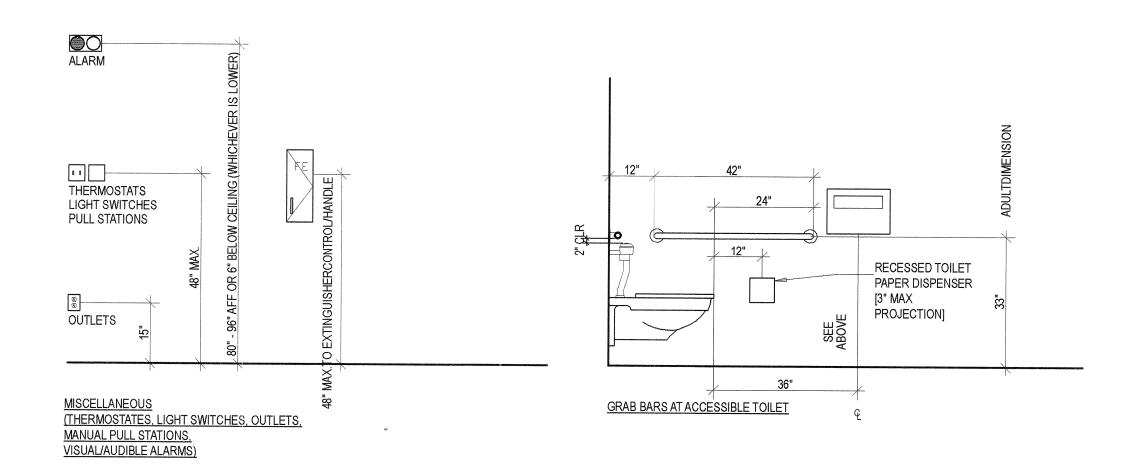
SIGNAGE TYPES

DSA SET

04-14-06

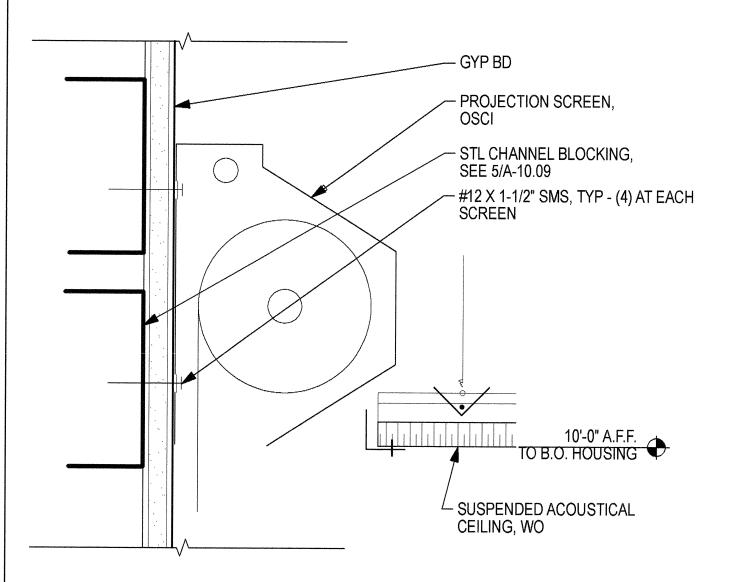


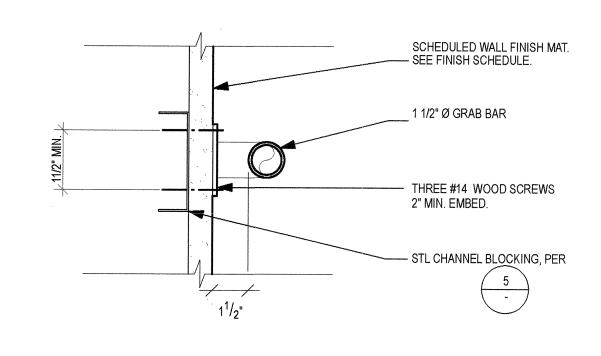




ANGLE MOUNTED PROJECTION SCREEN SCALE: 6" = 1'-0"

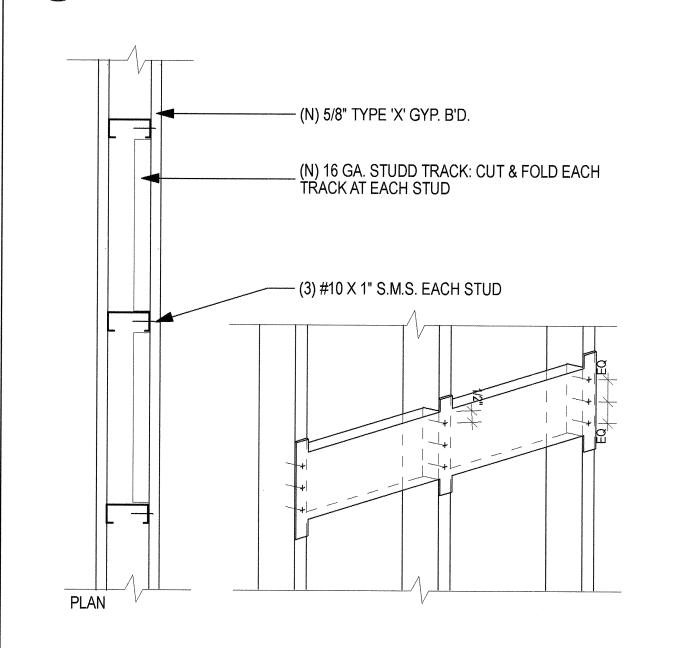


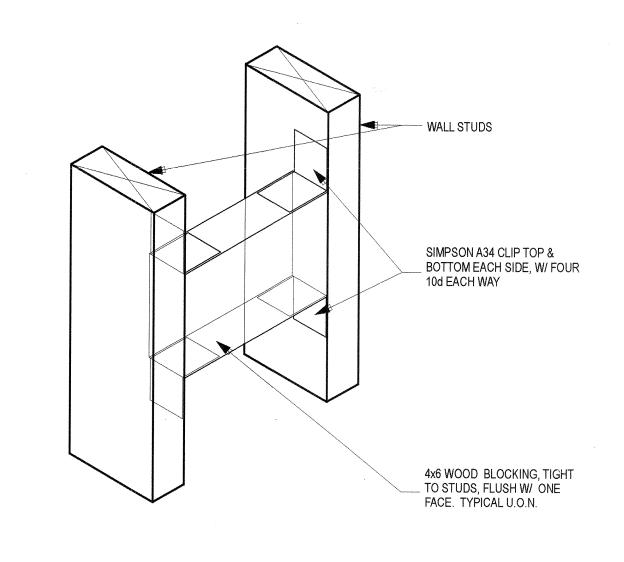


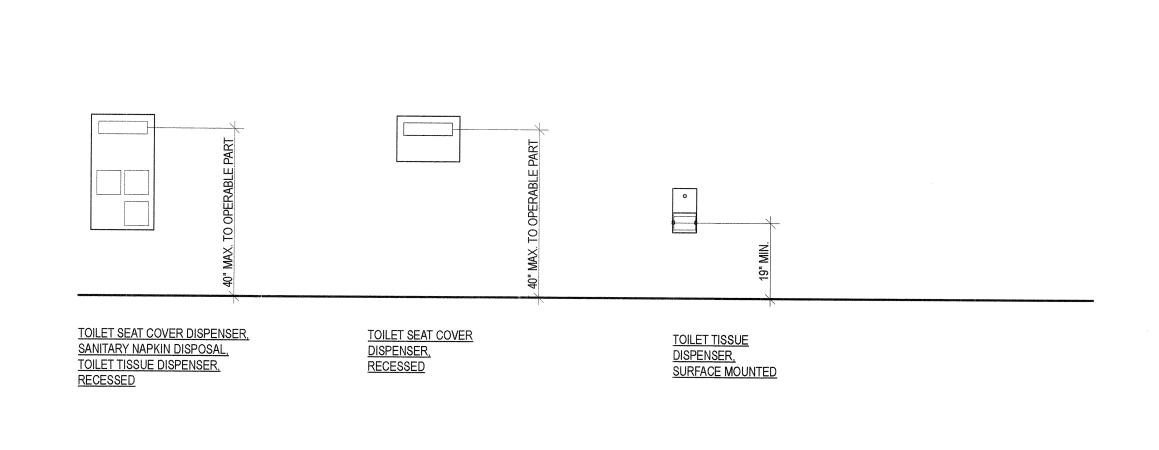


WALL MOUNTED PROJECTION SCREEN SCALE: 6" = 1'-0"

GRAB BAR MOUNTING typ-grabbar-mounting.dwg



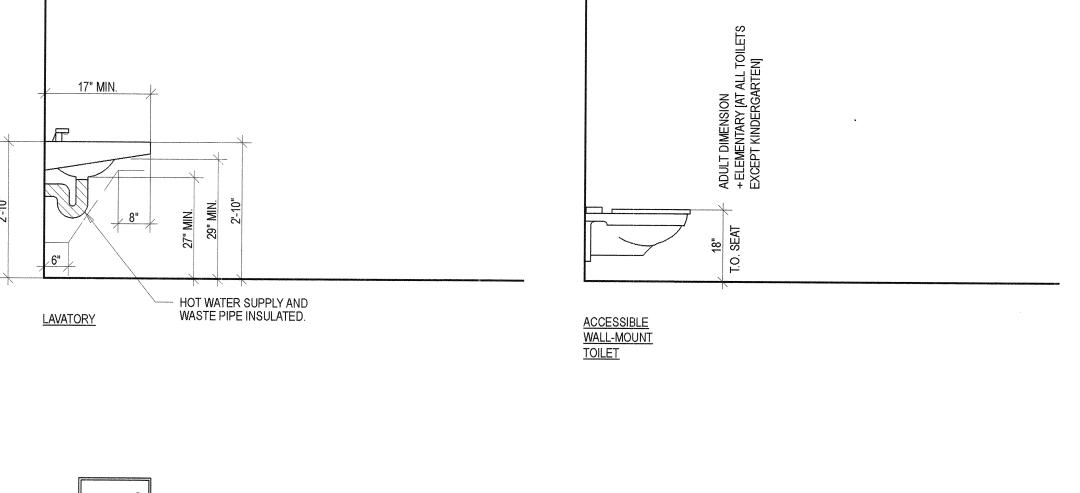


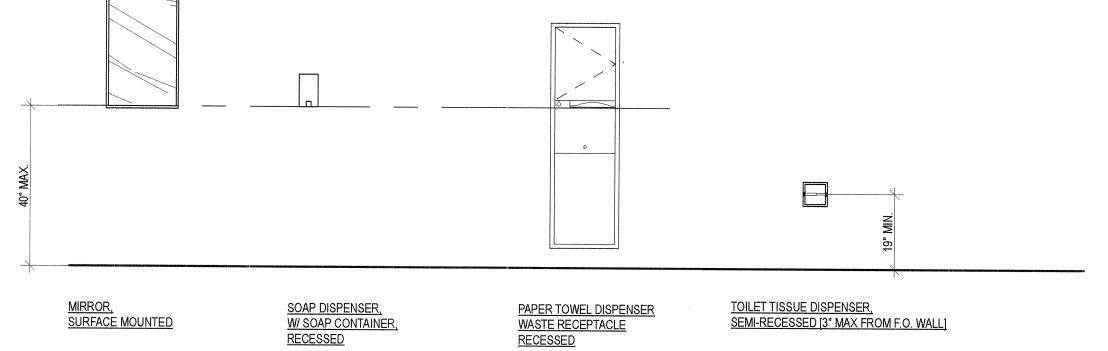


TYP. BLOCKING AT MTL STUD WALL

SCALE: 1' = 1'-0"

TYPICAL BLOCKING NOT TO SCALE typ-blocking.dwg





ACCESSORY & FIXTURE MOUNTING HEIGHTS - TYP. U.O.N. SCALE: 1/2" = 1'-0"

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STRUCTURAL: Dasse Design 33 New Montgomery

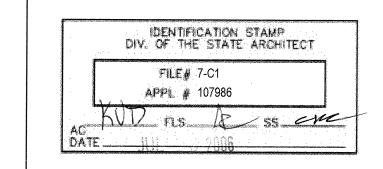
San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax)

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade 321 Golf Club Road

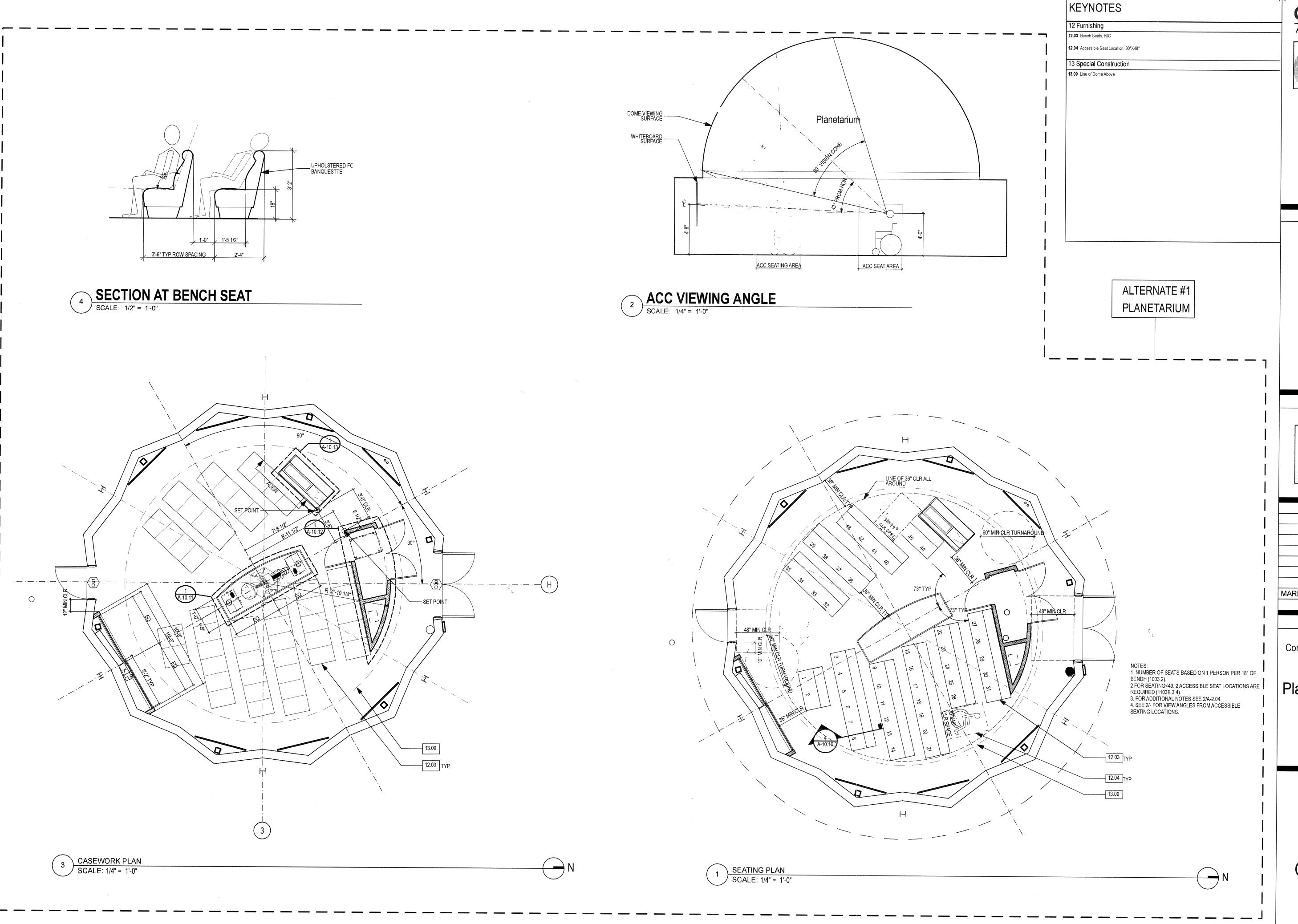
Pleasant Hill, CA 94523

FIXTURE MOUNTING **DETAILS**

A-10.09

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04-14-06



ARCHITECTS



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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL # 107986 AC STORES AS SE CHE

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DATE	DESCRIPTION
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Upgrade 321 Golf Club Road

Pleasant Hill, CA 94523

PLANETARIUM SEATING & CASEWORK PLANS

DSA SET

04-14-06

SHEET NOTES:

1. RESIN PANELS TO BE ADHESIVE APPLIED DIRECTLY TO STEEL STUDS PER MANUFACTURER'S RECOMMENDATION.

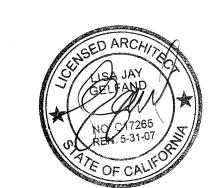
2. SEE STRUCTURAL DRAWINGS FOR STEEEL STUD FRAMING DETAILS.

Architect

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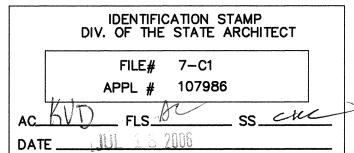
Heitz Engineering 6918 Merrywood Court

Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax) ELECTRICAL:

> WHM Engineering 1605 School Street Moraga, CA 94556

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DSA Application



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			Drawing Record/Revision
1		04/14/06	DSA SUBMISSION
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	MARK	DATE	DESCRIPTION
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road

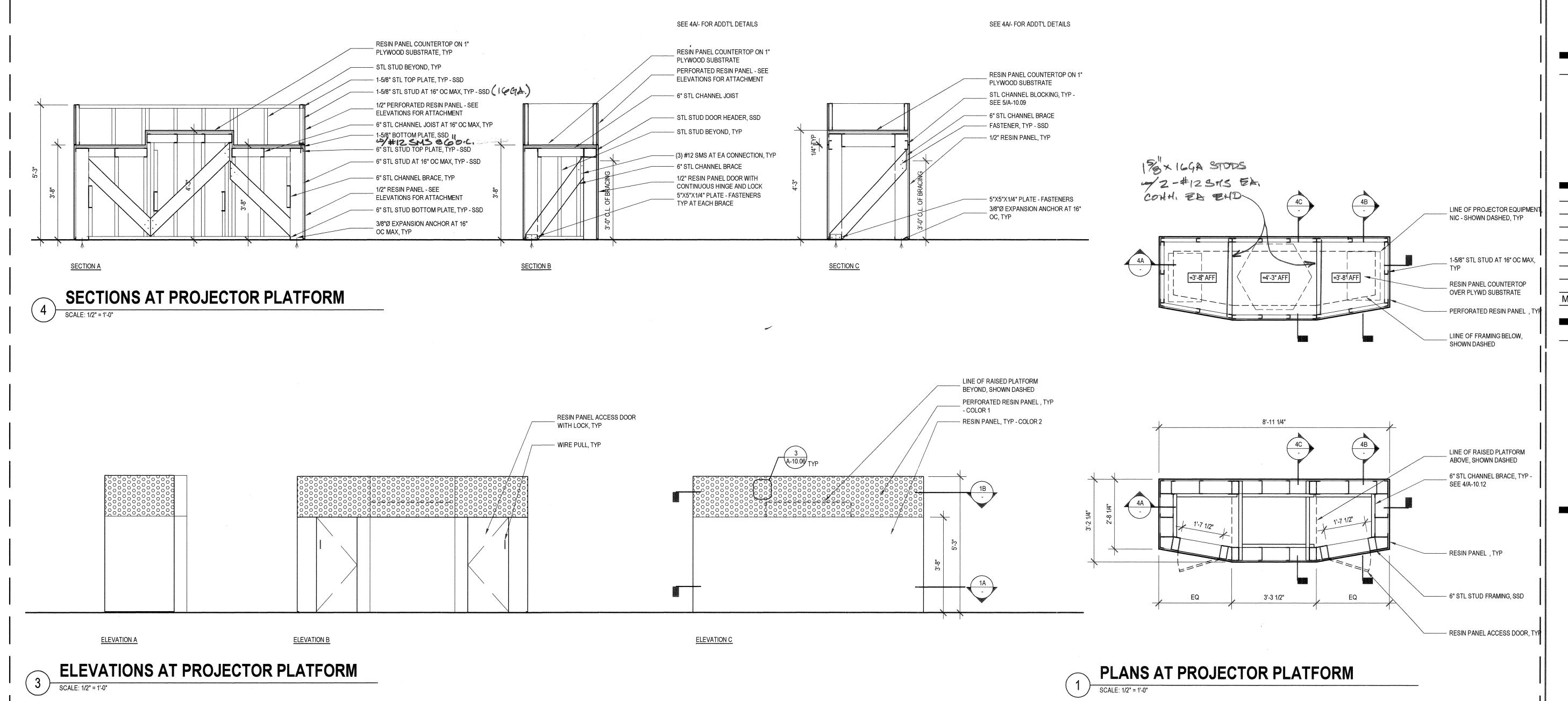
Pleasant Hill, CA 94523

PLANETARIUM PROJECTOR PLATFORM

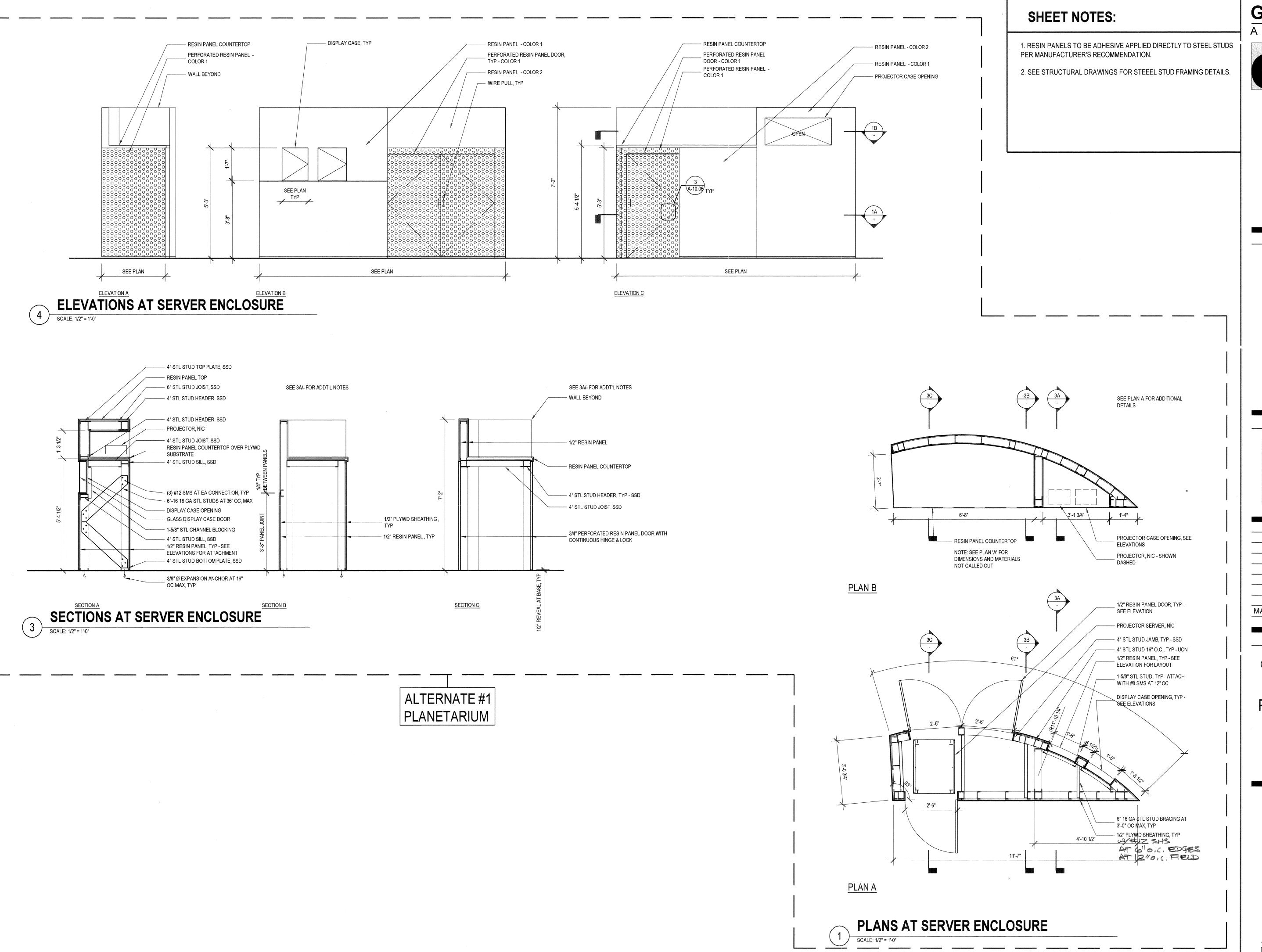
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ARCHITECTS



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DIV. OF THE STATE ARCHITECT FILE# 7-C1 APPL # 107986 AC RVD FLS R SS CKC

		Drawing Record/Revisions
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MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

321 Golf Club Road Pleasant Hill, CA 94523

PLANETARIUM SERVER **ENCLOSURE**

04-14-06 __of__ DSA SET

SHEET NOTES:

- 1. RESIN PANELS TO BE ADHESIVE APPLIED DIRECTLY TO STEEL STUDS PER MANUFACTURER'S RECOMMENDATION.
- 2. SEE STRUCTURAL DRAWINGS FOR STEEEL STUD FRAMING DETAILS.

Architect

Gelfand Partners

ARCHITECTS



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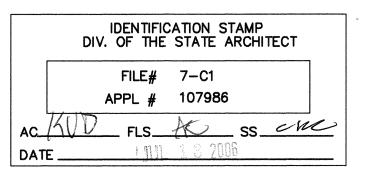
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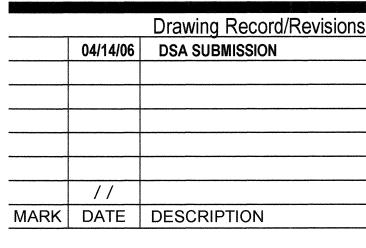
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Proiec

Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom

Renovation

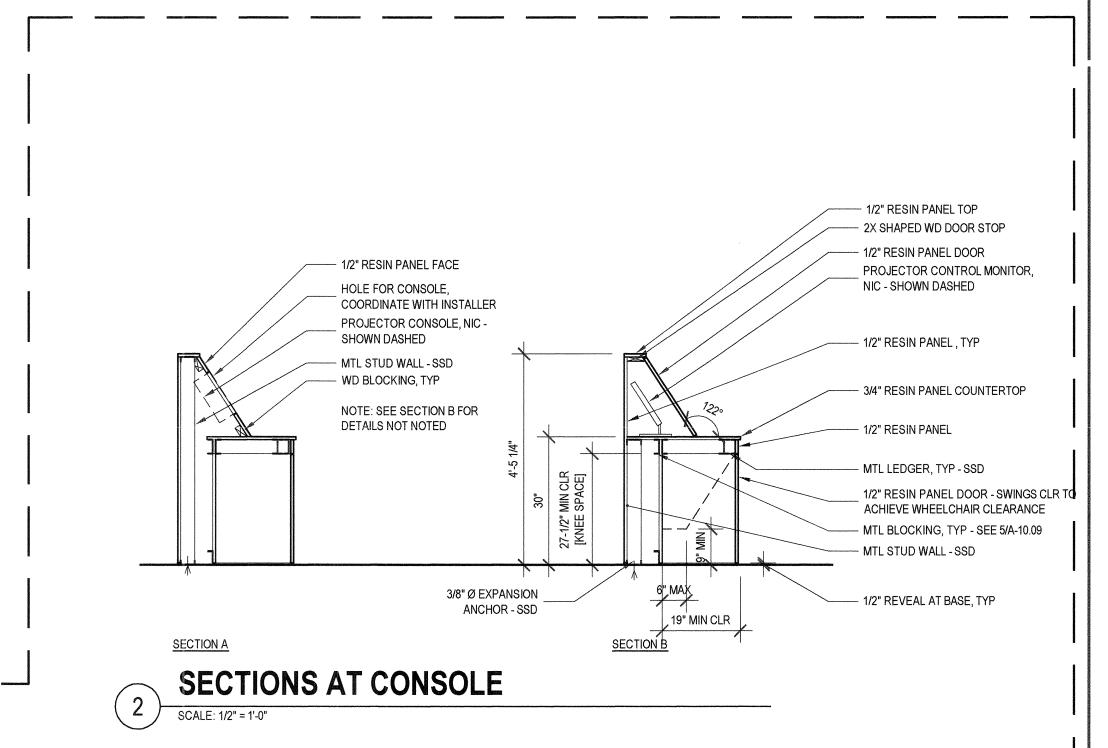
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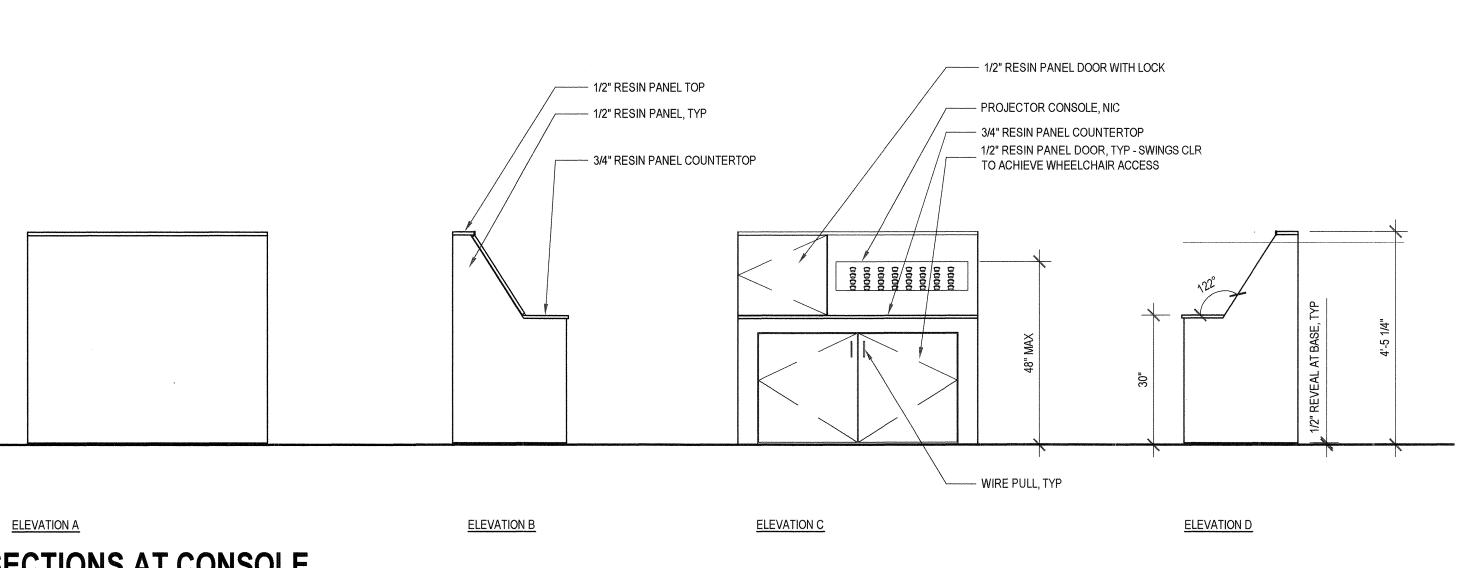
PLANETARIUM CONTROL CONSOLE

A-10.13

DSA SET 04-14-06 __of__



ALTERNATE #1 PLANETARIUM



2B
2A
1/2" RESIN PANEL TOP
1/2" RESIN PANEL TOP
1/2" RESIN PANEL
PROJECTOR CONSOLE, NIC COORDINATE OPENING SIZE WITH
INSTALLER

FRAMING BELOW, SHOWN
DASHED - TYP

3/4" RESIN PANEL COUNTERTOP
1/2" RESIN PANEL DOOR

PLAN AT OPERATOR CONSOLE

SECTIONS AT CONSOLE

DSA SE

I. GENERAL

- A. DRAWINGS REPRESENT FINISHED STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER OR CONSTRUCTION MANAGER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
- B. HOLES AND OPENINGS THROUGH WALLS AND FLOORS FOR DUCTS, PIPING AND VENTILATIONS SHALL BE COORDINATED BY THE CONTRACTOR WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND THESE SUB-CONTRACTORS.
- C. NO PIPES OR DUCTS SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT.
- D. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: KINDS OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, FOR ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.
- E. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- G. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- H. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED.
- I. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS U.O.N. IN GENERAL, TYPICAL DETAILS ARE NOT SPECIFICALLY REFERENCED.
- J. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN.
- K. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY LICENSES AND PERMITS. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL LAWS GOVERNING THE WORK.
- L. ALL CONSTRUCTION TO BE PERFORMED IN A MANNER TO MINIMIZE IMPACT ON THE CONTINUING OPERATION OF THE BUILDING. CONTRACTOR TO PROVIDE APPROPRIATE BARRIERS BETWEEN CONSTRUCTION SITE AND REMAINDER OF BUILDING.
- M. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.
- N. ALL FINISHES, STRUCTURAL ELEMENTS AND ARCHITECTURAL FEATURES AFFECTED BY CONSTRUCTION TO BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONSTRUCTION.
- O. THE SCOPE OF WORK INCLUDES CLEANUP NECESSARY TO LEAVE THE BUILDING IN A NEAT AND USABLE CONDITION.

II. EXISTING CONSTRUCTION

- A. WORK SHOWN IS NEW UNLESS NOTED AS EXISTING: (E).
- B. EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND SITE INVESTIGATION AND CAN BE USED FOR BIDDING PURPOSES. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
- C. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF MEMBERS.
- D. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF THE NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED STRUCTURAL ENGINEER TO BE RETAINED BY THE CONTRACTOR.
- E. THE CONTRACTOR SHALL PERFORM THE WORK WITH A MINIMUM OF INCONVENIENCE TO THE OWNER AND SO AS NOT TO INTERRUPT THE DAY TO DAY WORK OPERATIONS. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF CONSTRUCTION AND SHALL CONDUCT OPERATIONS TO PREVENT DAMAGE OR HARM TO THE FACILITIES AND PEOPLE. COORDINATE ALL OPERATIONS WITH THE OWNER OR HIS AGENT.
- F. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE CAUSED DURING OPERATIONS WITH SIMILAR MATERIALS AND WORKMANSHIP.
- G. ALL REMOVED ITEMS, MATERIALS AND DEBRIS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE REMOVED PROMPTLY FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.

III. DESIGN BASIS

- A. APPLICABLE CODE:
- CALIFORNIA BUILDING CODE (CBC), 2001 EDITION, WITH DSA/SSS AMENDMENTS
- B. VERTICAL LIVE LOADS:
- 1. FLOORS: 50 PSF PLUS 35 PSF INCIDENTAL LIVE LOAD.
- 2. EXITS AND CORRIDORS: 100 PSF. (NON-REDUCIBLE).

CATWALK:

40 PSF. 4. ROOF: 20 PSF PLUS MECHANICAL.

IV. MATERIALS

A. CONCRETE

- 1. REINFORCING STEEL:
- a. BARS: ASTM A615, GRADE 60, UON.
- b. ALL CONCRETE SHALL BE REINFORCED UNLESS SPECIFICALLY MARKED 'NOT REINFORCED'.

2. CONCRETE CLASSES:

(PSI)	(LBS)
SLAB ON 3000 GRADE	145

ALL CONCRETE SHALL BE THOROUGLY CONSOLIDATED.

3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL:

LOCATION	
SURFACES PLACED AGAINST EARTH	3"
FORMED SURFACES BELOW GRADE	2"
SURFACES EXPOSED TO WEATHER	2"
BEAM AND COLUMN BARS (INCLUDING STIRRUPS OR TIES)	1 ¹ /2""
EXTERIOR WALL AT EXTERIOR FACE	11/2"
SLABS AND WALLS NOT EXPOSED TO WEATHER	1"
TILT-UP WALL PANELS AT EXTERIOR FACE WHERE EXTERIOR FACE CAST	
AGAINST RIGID SURFACE: #3-#8 BARS #9-LARGER BARS	1" 2"

- 4. FINISH: SLABS ACI 301 "FLOATED FINISH".
- 5. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT 3 (KB-II) AS MANUFACTURED BY HILTI CORPORATION OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATION.
- 6. EPOXY FOR DOWELS SHALL BE BURK'S "BURK EPOXY MV", COVERT'S "CIA GEL 7000", HILTI'S "HIT HY-150", OR AN APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

B. WOOD

FRAMING LAMBER - DOUGLAS FIR:		
MEMBER TYPE	GRADE	
JOIST AND RAFTERS	No. 1	
STUDS, PLATES, BLOCKS LIGHT FRAMING AND MISC	No. 2	
POSTS	No. 1 OR BETTER	

- 1. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY 6'-0" OR LESS ABOVE GROUND SHALL BE PRESSURE TREATED DOUGLAS FIR.
- 2. LUMBER MOISTURE CONTENT: SEE SPECIFICATIONS
- 3. REJECTION OF WOOD MEMBERS: THE PROVISION IN CBC STANDARD 23-1, SECTION 23.104.1, WHICH PERMITS 5 PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, ENGINEER OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR STRUCTURAL ENGINEER.
- 4. STRUCTURAL SHEATHING:
- FLOOR SHEATHING: 23/32" APA RATED, STURD-I-FLOOR, 24 OC, T&G,
- 5. FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON CO. OR APPROVED EQUAL. SIMPSON DESIGNATIONS USED.
- 6. NAILS: COMMON WIRE GAGE UON. NAILING TO CONFORM TO CBC TABLE 23-II-B-1, UON.
- USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND DSA. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF THE NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND-HELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.
- 7. BOLTS: ASTM A307. ANCHOR RODS = ASTM F1554, FY = 36 KSI.
- 8. GLUE FLOOR SHEATHING AT T&G JOINTS AND TO SUPPORTING MEMBERS.

STRUCTURAL NOTES

C. STEEL

SHAPE	MATERIAL	
SHAPES AND PLATES	ASTM A36	
BOLTS	ASTM A325 N, U.O.N.	
ANCHOR RODS	ASTM F1554, Fy=36, U.O.N.	
WELDING ELECTRODES	E70, SEE SPECIFICATIONS FOR CVN RQMTS	
HSS TUBES	ASTM A500, GRADE B	

D. EXPANSION ANCHORS

CARBON STEEL EXPANSION BOLTS IN NORMAL WEIGHT CONCRETE F'c = 3000 PSI			
DIAMETER	MINIMUM EMBED.	TENSION TEST VALUE	TORQUE TEST VALUE
1/4"	2"	1070 LBS	7 FT-LBS
³ /8"	2 ¹ /2"	2280 LBS	25 FT-LBS
1/2"	3 ¹ /2"	3276 LBS	45 FT-LBS
⁵ /8"	4"	4488 LBS	95 FT-LBS
3/4"	43/4"	6330 LBS	225 FT-LBS
1"	6"	8496 LBS	325 FT-LBS

CARBON STEEL EXPANSION BOLTS IN CONCRETE OVER F'c = 3000 PSI MIN METAL DECK				
DIAMETER	MINIMUM TOTAL EMBED.	TENSION TEST VALUE	TORQUE TEST VALUE	
1/4"	2"	990 LBS	25 FT-LBS	
³ /8"	21/2"	1652 LBS	25 FT-LBS	
1/2"	31/2"	2560 LBS	55 FT-LBS	
5/8"	4"	3553 LBS	90 FT-LBS	

- 1. TYPICAL EXPANSION BOLTS ARE CARBON STEEL HILTI KWIK-BOLTS 3 AND SHALL COMPLY WITH ICC REPORT ESR 1385 THE LOADS AS TABULATED CORRESPOND TO 80% OF THE ICC ALLOWABLES. INCREASE FOR COMBINATION WITH WIND OR SEISMIC FORCES IS NOT ALLOWED. SPECIAL INSPECTION OF EXPANSION BOLTS IS REQUIRED. TABULATED VALUES ARE FOR SHALLOW ANCHORS.
- 2. INSTALLATION: INSTALL EXPANSION BOLTS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN ICC RESEARCH COMMITTEE RECOMMENDATIONS FOR THE SPECIFIC EXPANSION BOLT.
- 3. FIELD TESTING: TENSION TEST DRILLED IN ANCHORAGE TO VALUES ABULATED ABOVE WITH SPECIAL INSPECTION, OR TORQUE TEST TO VALUES AS TABULATED ABOVE. TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S PROJECT REPRESENTATIVE. TEST 100% OF EACH DIAMETER GROUP OF EXPANSION BOLTS. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE PASS. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS. ALL ANCHORS INSTALLED THAT DAY SHALL BE TESTED, AND ALL COSTS OF SUCH TESTS AND INSPECTIONS SHALL BE DEDUCTED FROM THE CONTRACT SUM.
- 4. TENSION TESTS: APPLY TEST LOADS TO EXPANSION BOLTS WITHOUT REMOVING THE NUT, IF POSSIBLE, IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED IN CLOSE PROXIMITY TO THE ANCHOR BEING TESTED, PROVIDED THE BOLT IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES, BOLTS SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD TO BE ACCEPTABLE (OBSERVABLE MOVEMENT IS DEFINED AS THE WASHER UNDER THE NUT BECOMING LOOSE).
- 5. TORQUE WRENCH TEST: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT.
- 6. EXPANSION ANCHORS INSTALLED FROM THE UNDERSIDE OF METAL DECK SHALL BE LOCATED IN THE CENTER OF THE LOW FLUTE. THE MINIMUM EMBEDMENT SHALL BE 1½ " ABOVE THE TOP FLUTE OF THE DECK (EXCEPT 1/4" DIAMETER ANCHORS FOR CEILINGS). THE EFFECTIVE EMBEDMENT DEPTH SHALL BE 1/3 OF THE METAL DECK HEIGHT PLUS THE 11/2" MINIMUM NOTED ABOVE.

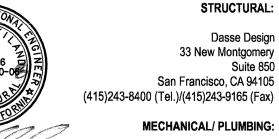


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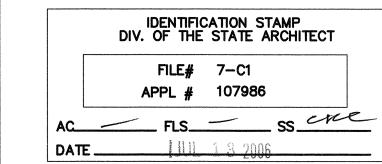


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DSA Application



		Drawing Record/Revisions
	04/14/06	DSA SUBMISSION
	06/19/06	BID SET
	07/13/06	DSA PERMIT SET
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	//	
MARK	DATE	DESCRIPTION

Contra Costa Community College District Diablo Valley College

Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

GENERAL NOTES

BID SET 00-00-00

1. REINFORCING STEEL & ANCHOR RODS (BY 1.O.R.)

2. CONCRETE PLACEMENT (BY I.O.R.)

3. INSTALLATION OF EXPANSION BOLTS

4. CEMENTITIOUS AND EPOXY GROUTED DOWELS

5. WELDING: REBAR, STRUCTURAL STEEL, METAL DECK

6. HIGH STRENGTH BOLTS

7. PLYWOOD SHEAR NAILING AND FRAMING HARDWARE (I.O.R.)

B. TESTING: OWNER'S TESTING AGENCY SHALL PERFORM THE FOLLOWING TESTS AND SUBMIT APPROPRIATE REPORTS TO THE ARCHITECT, S.E., I.O.R., AND DSA.

1. PERFORM CONCRETE TESTING FOR CONCRETE IN ACCORDANCE WITH ACI 318.

a. MAKE AND CURE THREE SPECIMEN CYLINDERS ACCORDING TO ASTM C31 FOR EACH 50 CUBIC YARDS OF CONCRETE POURED AT SITE EACH DAY.

b. RETAIN ONE CYLINDER FOR SEVEN-DAY TEST AND TWO FOR THE 28-DAY TEST. TEST FOR SPECIFIED STRENGTH ACCORDING TO ASTM C39.

2. PERFORM CMU WALL TESTING IN ACCORDANCE WITH ASTM E447-92b.

C. A LISTING OF REQUIRED STRUCTURAL SUBMITTALS FOLLOWS.

1. CONCRETE MIX DESIGNS: SUBMIT CERTIFIED COPIES OF ALL CONCRETE MIX DESIGNS INCLUDING COMPRESSIVE STRENGTH TEST REPORTS ONE WEEK PRIOR TO INSTALLATION OF ANY CONCRETE.

2. REINFORCING STEEL SHOP DRAWINGS: SHOW BENDING, PLACEMENT DETAILS, SIZE, AND LOCATION

3. STRUCTURAL STEEL AND STEEL DECK SHOP DRAWINGS: SHOW DETAILS INCLUDING CUTS, COPES, CONNECTIONS, HOLES, FASTENERS, AND WELDS.

4. MANUFACTURER'S DATA FOR INSERTS, GROUTS & EPOXIES

5. PLYWOOD NAILS AND NAILING MACHINE DATA

6. WELDING ELECTRODE DATA AND WELDING PROCEDURE SPECIFICATIONS

D. STRUCTURAL OBSERVATIONS WILL BE PROVIDED PER CBC 1702 BY THE ENGINEER OF RECORD.

VI. DEFERRED SUBMITTALS

DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT AND/OR THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION. FOLLOWING THE COMPLETION OF THE ARCHITECT'S OR ENGINEER'S REVIEW, A SUBMITTAL TO THE PLAN CHECK AUTHORITY SHALL BE MADE FOR REVIEW AND APPROVAL. THIS SUBMITTAL SHALL BE PROCESSED IN ACCORDANCE WITH THE CBC, SECTION 106.3.4.2. FOR A LIST OF DEFERRED ITEMS, SAD.

		enadoren esperantamente error er		
EPOXY GROU	JTED DOWELS IN	NORMAL WEI	GHT CONCRETE,	f'c = 2000 PSI MIN
REBAR SIZE	THREADED ROD DIA	DRILL BIT/ HOLE DIAMETER	MIN DEPTH OF EMBEDMENT	TENSION TEST VALUE
#3	3 _{/8} "¢	R'S	4"	3,560#
#4	1/2"Φ	URE	41/2"	5,110 [#]
#5	5 _{/8} "¢	MANUFACTURE	6"	8,240 [#]
#6	3/4"Ф	N O F	7"	10,610#
#7	7/8"Þ	COMA	8"	14,710#
#8	1"Ф	PE RE	9"	17,770 [#]

NOTES:

1. EPOXY GROUT SHALL BE: HILTI HIT HY-150, ICC REPORT #ER-5193 (9/2004); FOLLOW EPOXY MANUFACTURER'S INSTRUCTIONS FOR DOWEL INSTALLATION AND COMPLY WITH ICC REPORT. CONTRACTOR TO USE CORRECT DRILL BIT SIZE.

2. SEE DETAILS FOR ADDITIONAL DOWEL INFORMATION.

3. HOLES SHALL BE DRY. CLEAN HOLES WITH NYLON BRUSH TO REMOVE LOOSE MATERIAL AND BLOW OUT HOLES WITH OIL-FREE COMPRESSED AIR.

4. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITHIN THE EXISTING STRUCTURE PREVENT DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.

5. FIELD TESTING: TENSION TEST 50% OF DOWELS IN EACH DIAMETER GROUP TO THE VALUES TABULATED ABOVE. TESTS SHALL BE PERFORMED BY THE OWNER'S TESTING AGENCY. IF ANY DOWEL FAILS, TEST ALL DOWELS NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE PASS. TESTING SHALL OCCUR 7 DAYS MINIMUM AFTER DOWEL INSTALLATION. TEST AND INSPECTION COSTS ASSOCIATED WITH FAILED DOWELS SHALL BE DEDUCTED FROM THE CONTRACT SUM.

6. MINIMUM CONCRETE THICKNESS SHALL BE 1.5 TIMES THE DEPTH OF EMBEDMENT

7. USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.

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EPOXY GROUTED DOWELS

VII. ABBREVIATIONS

DIAMETER ANCHOR BOLT ARCH **ARCHITECTURAL** BLDG BUILDING BLK'G BLOCKING BOF BOTTOM OF FOOTING ВОТТОМ COLUMN BASE CENTER TO CENTER CENTER LINE CONSTRUCTION JOINT COL COLUMN CONN CONNECTION CONT CJP CONTINUOUS COMPLETE JOINT PENETRATION CTR CTRSK COUNTERSINK DCW DEMAND CRITICAL WELD DET DETAIL DOUGLAS FIR DWG DRAWING **EXISTING** EACH FACE EL OR ELEV ELEVATION **ELECT** ELECTRICAL EN END (OR EDGE) NAILING EACH WAY EXTERIOR **FOUNDATION** FDN FL OR FLR FLOOR F.O.C. FACE OF CONCRETE F.0.S. FACE OF STUD FRM'G FRAMING FAR SIDE FTG FOOTING GAUGE GALV GALVANIZED GLB GLU-LAMINATED BEAM HD HOLD DOWN HORIZ HORIZONTAL HSB HIGH STRENGTH BOLT INTERIOR JOIST HANGER LONG LEG HORIZONTAL (VERTICAL) LLH (LLV) LT WT LIGHT WEIGHT UNFINISHED MACHINE BOLTS MAX MAXIMUM **MECH MECHANICAL** MFR MANUFACTURER MTL METAL MINIMUM MISC MISCELLANEOUS MALLEABLE IRON WASHER NOT IN CONTRACT NOMINAL NTS NOT TO SCALE ON CENTER OD (ID) OPG OUTSIDE (INSIDE) DIAMETER OPENING OPP OPPOSITE PURLIN ANCHOR POWER ACTUATED FASTENER PARTIAL JOINT PENETRATION PLYWOOD PSL PARALLAM POINT PTN **PARTITION** REF REFERENCE REINF REINFORCEMENT REQ REQUIRED ROUGH OPENING RWD REDWOOD S.A.D. S.E.D. SCHED SECT SHT SEE ARCHITECTURAL DRAWINGS SEE ELECTRICAL DRAWINGS SCHEDULE SECTION SHEET SIM SMD SPA SIMILAR SEE MECHANICAL DRAWINGS SPACE SPEC **SPECIFICATION** SQ ST SQUARE STRAP TIE STAGG'D STD STL STRUCT STAGGERED **STANDARD** STEEL STRUCTURAL SYMM SYMMETRICAL T&B T&G THRD'D TOP AND BOTTOM TONGUE AND GROOVE THREADED TIE DOWN TOC TOP OF CONCRETE TOS TOP OF STEEL TOP OF WALL TOP OF PLATE TYPICAL UON VERT UNLESS OTHERWISE NOTED VERTICAL

WITHOUT

WORK POINT WEIGHT

ODE

Architect

Gelfand Partners

ARCHITECTS

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MECHANICAL/ PLUMBING: Heitz Engineering 6918 Merrywood Court Granite Bay, CA 95746

(916)773-8920 (Tel.)/(916)789-1005 (Fax) **ELECTRICAL:** WHM Engineering

1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT FILE# 7-C1 APPL # 107986 AC_____ FLS_____

		Drawing Record/Revision
	04/14/06	DSA SUBMISSION
	06/19/06	BID SET
	07/13/06	DSA PERMIT SET
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***************************************	//	
MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

> Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

GENERAL NOTES

BID SET **00-00-00**

06-19-06

JOB NUMBER: 0312

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

> Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

FOUNDATION PLAN

BID SET

JOB NUMBER: 0312

X-REF'S: .DWG

(E) 6WF15.5 COL (TOTAL 6) (N) HSS6x6x¹/2 -(E) 8" CMU WALL (N) HSS6x6x¹/2 (N) HSS6x6x¹/2 (N) HSS6x6x¹/2 NOTES: 1. WORK AT PLANETARIUM IS ALTERNATE No. 1. 2. SEE NOTES S0.1, S0.2.

PLANETARIUM FLOOR PLAN

1/4"=1'-0"

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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

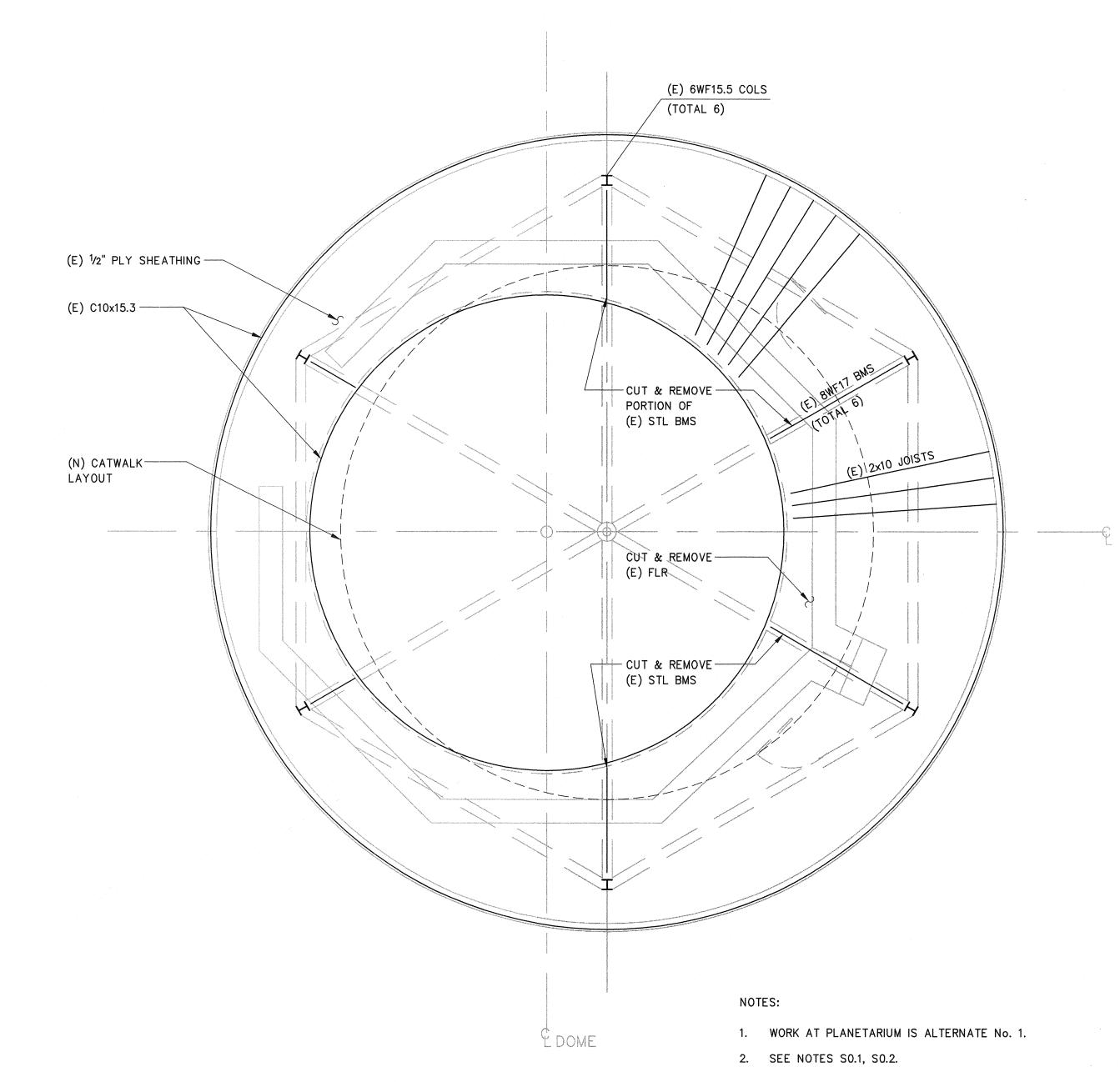
PLANETARIUM FLOOR PLAN

JOB NUMBER: 0312

ODE

X-REF'S: .DWG

CATWALK IMPROVEMENT PLAN 1/4"=1'-0"



CATWALK DEMOLITION PLAN

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> 321 Golf Club Road Pleasant Hill, CA 94523

CATWALK FLOOR PLAN

JOB NUMBER: 0312

X-REF'S: .DWG

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	MARK	DATE	DESCRIPTION
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Contra Costa Community College District Diablo Valley College

Planetarium & Classroom

Renovation

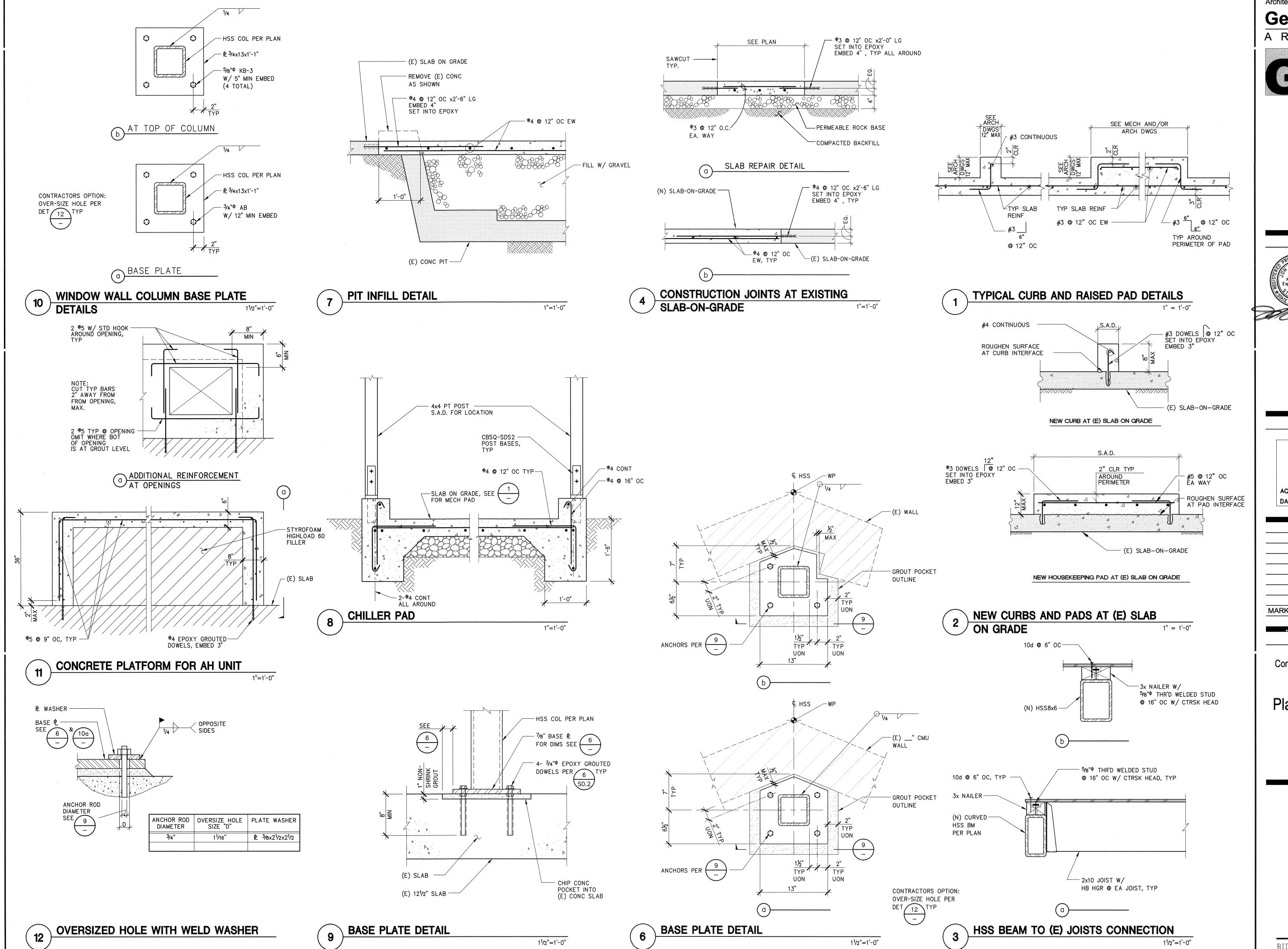
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PLANETARIUM BUILDING SECTION

JOB NUMBER: 0312

06-19-06

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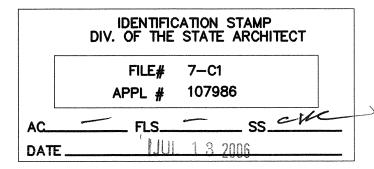


Consultants STRUCTURAL Dasse Design 33 New Montgomery San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING**

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DSA Application



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Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

> 321 Golf Club Road Pleasant Hill, CA 94523

Renovation

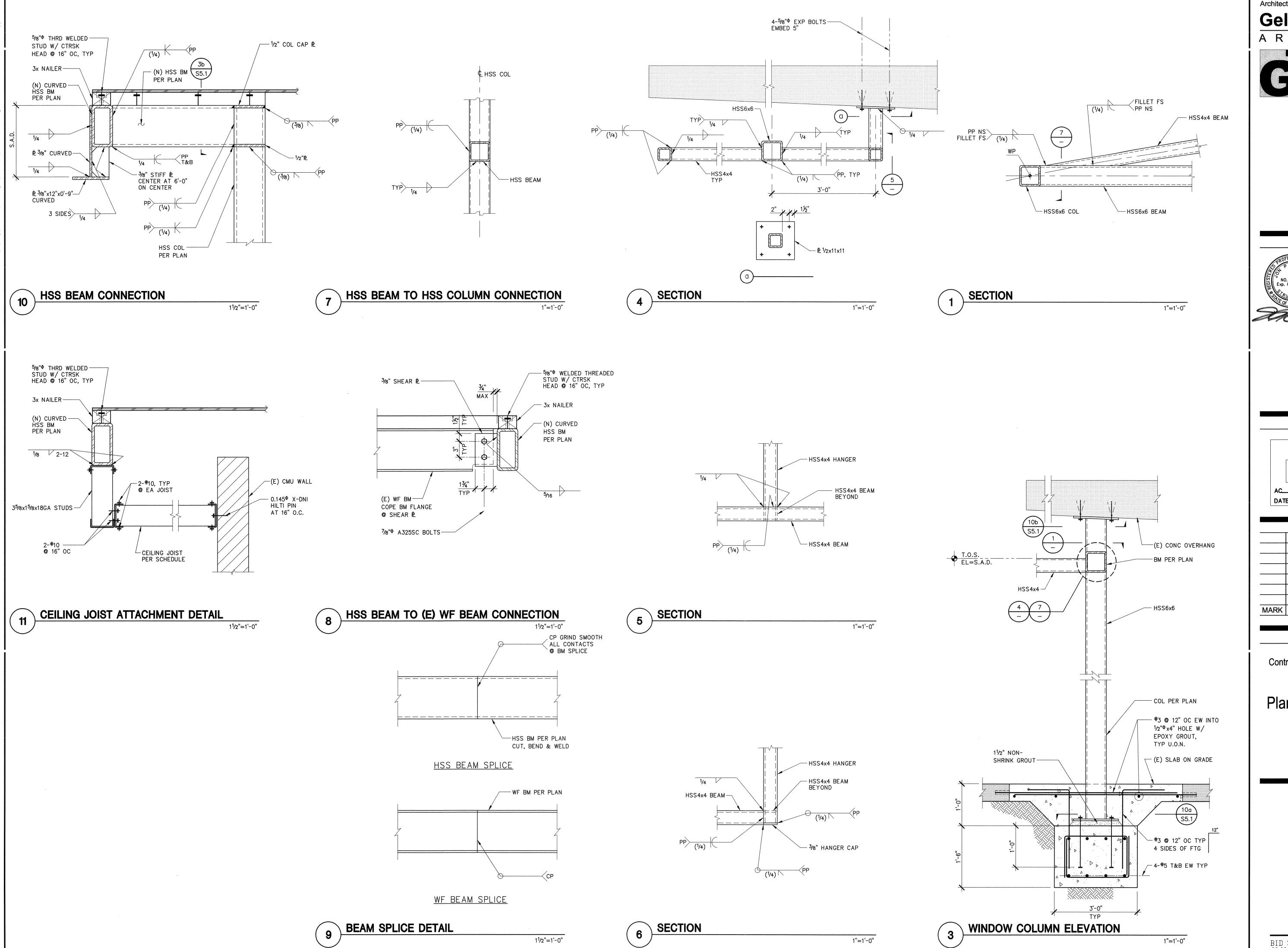
DETAILS

BID SET 06-19-06

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JOB NUMBER: 0312

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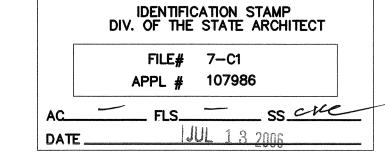
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DSA Application



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	07/13/06	DSA PERMIT SET
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MARK	DATE	DESCRIPTION

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

> 321 Golf Club Road Pleasant Hill, CA 94523

Renovation

DETAILS

BID SET **00-00-00**

JOB NUMBER: 0312

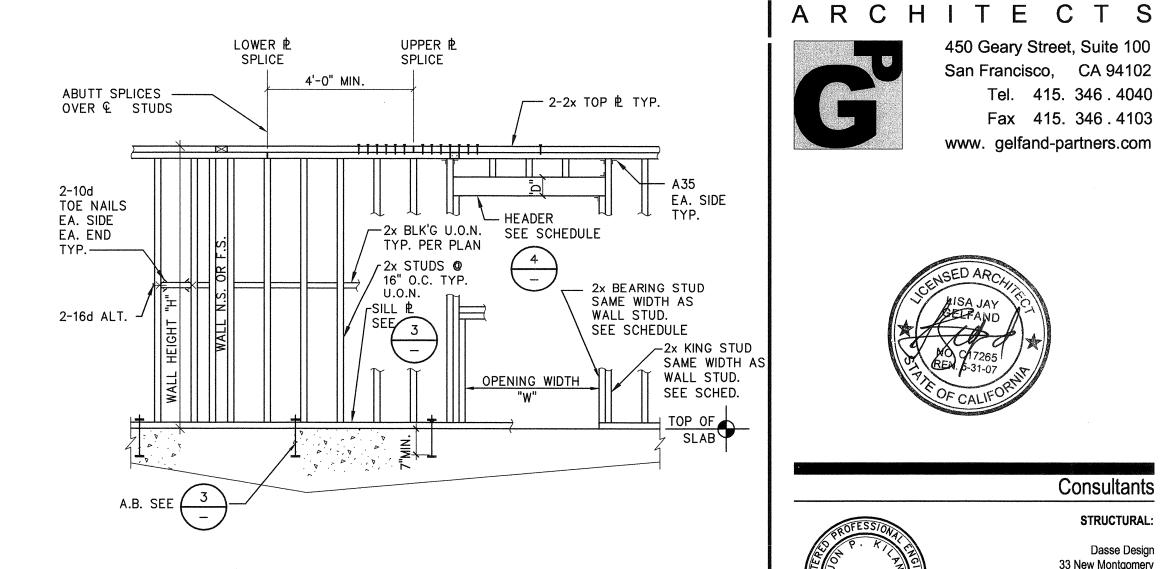
ODE

06-19-06

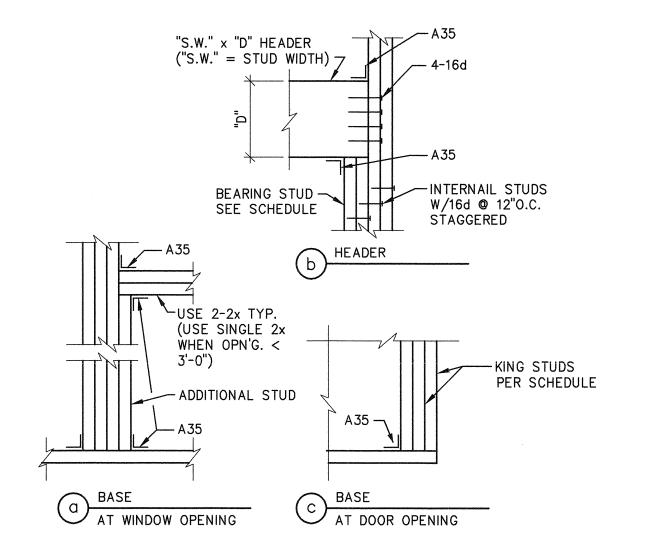
OPENING WIDTH "W" MIN.	"D" U.O.N.	NO. OF BEARING STUDS REQ'D.	NO. OF KING STUDS REQ'D.
W ∠ 5'-0"	7 1/4"	1	1
5'-0" ≤ W < 7'-0"	9 1/4"	2	2
7'-0" ≤ 10'-0"	11 1/4"	2	3
≥ 10'-0"	SEE PLANS	SEE W-T4.2	3

- 1. SIZE DOOR AND WINDOW HEADERS PER ABOVE SCHEDULE U.O.N. ON PLANS.
- 2. AT HD, USE POST PER W-T10 IN LIEU OF KING STUDS. ADD KING STUD TO HD POST IF REQUIRED, SO THAT WIDTH OF STUD & POST IS AT LEAST THE WIDTH OF KING STUDS REQUIRED PER SCHEDULE.

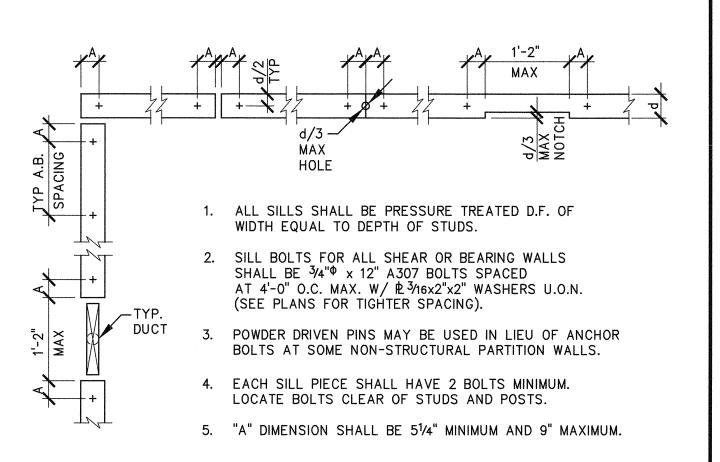




STRUCTURAL WALL FRAMING



WALL OPENING





X-REF'S: .DWG

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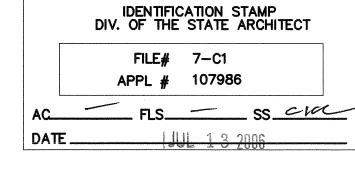
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MECHANICAL/ PLUMBING: Heitz Engineering 6918 Merrywood Court

Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax) **ELECTRICAL:**

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DSA Application



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	07/13/06	DSA PERMIT SET
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MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

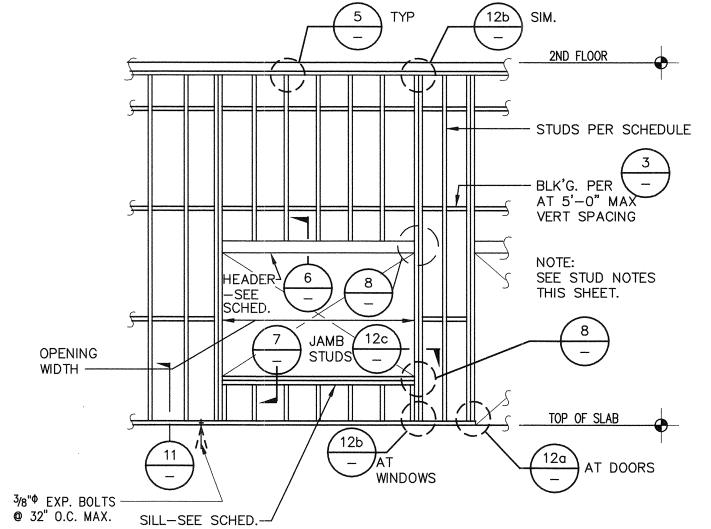
> 321 Golf Club Road Pleasant Hill, CA 94523

TYPICAL WOOD DETAILS

00-00-00 BID SET

JOB NUMBER: 0312

16 GA. STUD — STUD TRACK -#8 SMS @ 12" O.C. 8'-1" TO 20'-0" OPENING 1/8 2@12 TYP. 16 GA. STUD-FOR CONNECTION TO JAMBS, SEE 8 STUD TRACK ----#8 SMS, B.S. 4'-0" TO 8'-0" OPENING STUD TRACK -0'-0" TO 4'-0" OPENING



STEEL STUD NOTES

- 1. ALL STUDS AND TRACKS SHALL BE FORMED FROM STANDARD COMMERCIAL STEEL ASTM A570, WITH A MINIMUM YIELD POINT OF 33,000 PSI FOR MATERIAL 18 GAUGE AND THINNER AND 50,000 PSI FOR MATERIAL 16 GAUGE AND THICKER.
- 2. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE
- 3. STUDS AND TRACKS SHALL BE ATTACHED BY WELDING AND SELF DRILLING SCREWS AS NOTED ON THE DRAWINGS.

HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.

- 4. BUTT WELDS OR SPLICES SHALL BE USED AT ALL JOINTS IN TRACK. SPLICES IN STUDS OR BRACES SHALL NOT BE PERMITTED. ALL WELDS SHALL BE FILLET PLUG, BUTT OR SEAM WELDS. WHERE STUDS ARE BURNED THROUGH BY WELDING, PROVIDE SUITABLE STITCH PLATE OF SAME GAUGE.
- 5. RUNNER TRACKS SHALL BE THE SAME GAGE AS STUDS SUPPORTED, UNLESS OTHERWISE NOTED. TRACKS SHALL BE FASTENED TO STRUCTURE AT 24" c.c. MAXIMUM UNLESS OTHERWISE NOTED.
- 6. PROVIDE BLOCKING OF WALL STUDS AT 3'- 6" c.c. MAXIMUM PER DETAIL (-SHEET, WHERE SHEATHING IS NOT PRESENT ON BOTH SIDES OF STUDS.
- 7. WHERE NECESSARY, STEEL STUDS SHALL BE COORDINATED WITH GLAZING MANUFACTURER, MECHANICAL, ELECTRICAL AND ALL OTHER TRADES. SEE GENERAL NOTES ON S1.0.
- ATTACHMENTS TO STRUCTURAL STEEL AT BRACED FRAMES ARE RESTRICTED. ATTACHMENTS TO GUSSETS ARE NOT ALLOWED,
- 9. "VERTICLIP SLB" REFERS TO CLIPS MANUFACTURED BY THE STEEL NETWORK. INC.

TYPICAL SILL SCHEDULE

— 6" STUD ◎ 16" O.C.

 \sim 3/8" $^{\circ}$ x 4" EXP. ANCHOR

1"=1'-0"

-3/8"øx4" LG EXP ANCHOR

←16 GA. TRACK

@ 32" O.C.

CURB WHERE ---

TYPICAL BASE TRACK CONNECTION

© BOXED STUD

8" MAX.

BOXED STUD JAMB BASE

SIMILAR TO TOP

3/8"øx4" LG EXP ANCHOR

- 3/8"øx4" LG EXP ANCHOR @ 32"0.C. MAX. —

(b) AT WINDOW

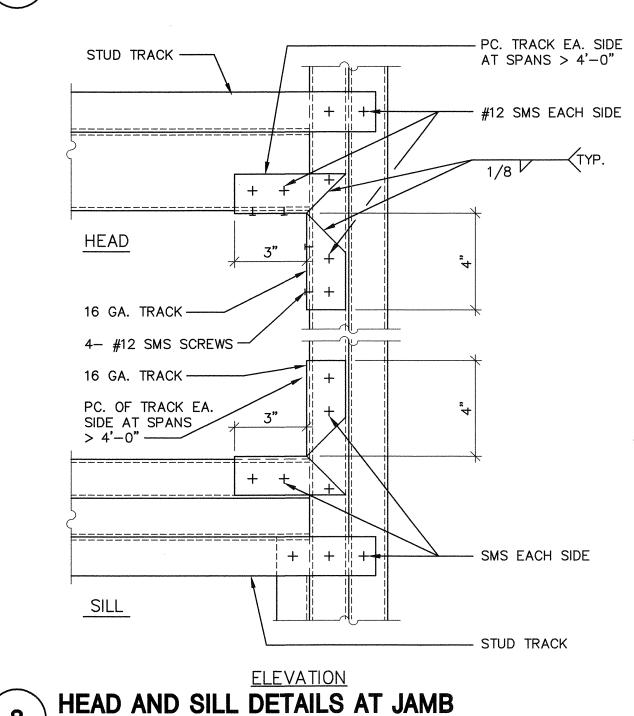
1 1/2"=1'-0"

OCCURS

T.O. SLAB
T.O. ROOF
AT SIM.

1/8

RUNNER-





½"^Ф EXO. BOLT **@** 24" OC —

EMBED 4"

1/4"=1'-0"

14GA TOP TRACK W/ 1 1/2" FLANGES

SNUG FIT TO WALL TRACK

- 16GA LOWER TRACK

— 2-#8 SMS

STEEL STUD NOTES

EXTERIOR STUDS											
SIZE	MFR #	SPACING	MAX. HEIGHT	MIN. S(in ³)	MIN. I(in ⁴)						
8"x1 ³ /8" 18GA	800 S162-43	16" O.C.	21'-7"	1.033	4.134						
6"x1 ⁵ /8" 18GA	600 S162-43	16" O.C.	17'-10"	0.767	2.316						
6"x1 ⁵ /8" 16GA	600 S162-54	16" O.C.	20'-1"	0.953	2.860						
6"x2" 12GA	600 S200-97	16" O.C.	23'-11"	1.871	5.612						
4"x1 ⁵ /8" 18GA	400 S162-43	16" O.C.	12'-11"	0.443	0.892						

INTERIOR STUDS											
SIZE	MFR #	SPACING	MAX. HEIGHT	MIN. S(in ³)	MIN. I(in ⁴)						
4"x1 ⁵ /8" 16GA	400S162-54	16" O.C.	22'-0"	0.533	1.098						
3 ⁵ /8"x1 ⁵ /8" 18GA	362S162-43	16" O.C.	19'-0"	0.389	0.710						
3 ⁵ /8"x1 ⁵ /8" 20GA	362S162-33	16" O.C.	17'-6"	0.292	0.551						

		CEILING J	OISTS		
SIZE	MFR #	SPACING	MAX. SPAN	MIN. S(in ³)	MIN. I(in ⁴)
35/8"x15/8" 18GA	362 S162-43	16" O.C.	11'-6"	0.389	0.710

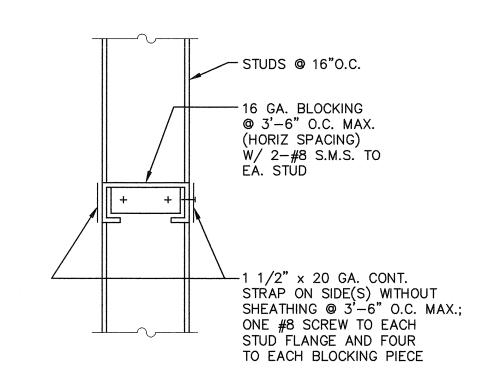
EXTERIOR TRACK											
S	IZE	MFR #	MIN. S(in ³)	MIN. I(in ⁴)							
8"x2"	16GA	800T200-54	1.501	6.152							
6"x2"	12GA	600T200-97	1.816	5.773							
6"x2"	16GA	600T200-54	1.015	3.145							
4"x2"	18GA	400T200-43	0.390	0.811							

INTERIOR TRACK								
SIZE	MFR #	MIN. S(in ³)	MIN. I(in ⁴)					
4"x2" 16GA	400T200-54	0.397	1.037					
3 ⁵ /8"x2" 18GA	362T200-43	0.270	0.649					
3 ⁵ /8"x2" 20GA	362T200-33	0.190	0.464					

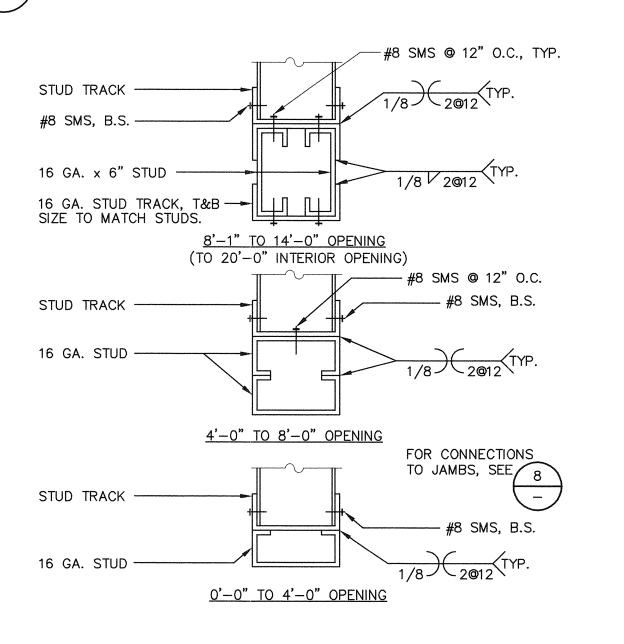
NOTES:

MFR.1.# REFERS TO SSMA DESIGNATION, ICBO # 4943P.

STEEL STUD PROPERTIES/SCHEDULE



TYPICAL NESTED TRACK



- #10 S.M.S. @ 24", STUD TO STUD. TYP. -TRACK TYP.

#10 S.M.S @ 24", STUD TO STUD. TYP.

TYPICAL CORNERS AND INTERSECTIONS

TYPICAL HEADER SCHEDULE

STUD BLOCKING

JOB NUMBER: 0312

06-19-06

#10 S.M.S. @

24", STUD TO STUD TYP.

TRACK TYP.

X-REF'S: .DWG

ODE

3"=1'-0"

TYPICAL STEEL STUD

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Drawing Record/Revisions

Project

Renovation

321 Golf Club Road

Pleasant Hill, CA 94523

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

DSA SUBMISSION

DSA PERMIT SET

BID SET

Contra Costa Community College District

Planetarium & Classroom

Diablo Valley College

FILE# 7-C1

APPL # 107986

04/14/06

06/19/06

07/13/06

MARK DATE DESCRIPTION

DSA Application

STRUCTURAL:

Dasse Design 33 New Montgomery

BID SET **00-00-00**

DETAILS

MECH	ANICAL LEGEND
<u> </u>	SUPPLY AND RETURN AIR DUCT TAKE-OFF
	TURNING VANES
	DUCT TEE CONNECTION
	DUCT TRANSITION
	DUCT TRANSITION RECTANGULAR TO ROUND OPPOSED BLADE VOLUME
VD MVD	DAMPER W/CONCEALED CEILING DAMPER REGULATOR, MOTORIZED VOLUME DAMPER
FC	FLEXIBLE DUCT CONNECTION
Ø	ROUND
AD	ACCESS DOOR
AH	EQUIPMENT TAG
	SUPPLY AIR DIFFUSER/REGISTER RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	GATE VALVE BALL VALVE
II	FLOOR SINK
	HOSE BIBB REMOVE EXISTING
	EXISTING (E)
	NEW WORK (N) (HEAVY LINE WEIGHT OR SHADED)
CD	CONDENSATE DRAIN PIPING
(BP)	BYPASS TIMER
0	THERMOSTAT
<u>\$</u>	REMOTE SENSOR
AC AFF	AIR CONDITIONER ABOVE FINISHED FLOOR
АН	AIR HANDLER
BD EF	BACKDRAFT DAMPER EXHAUST FAN
CA	COMBUSTION AIR
CC	COOLING COIL
CHWS&R CU	CHILLED WATER SUPPLY AND RETURN PIPING CONDENSING UNIT
DL	DOOR LOUVER
DM	DAMPER MOTOR
DSD EA	DUCT SMOKE DETECTOR EXHAUST AIR
(E)	EXISTING
F.D.	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
FA FC	FAN COIL
—— G ——	GAS PIPING
GA	GAUGE
GC HVAC	GENERAL CONTRACTOR HEATING, VENTILATING &
	AIR CONDITIONING HEAT PUMP
HWS&R	HOT WATER SUPPLY AND RETURN PIPING
MC	MECHANICAL CONTRACTOR
MA (N)	MIXED AIR NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER- POINT OF CONNECTION
POC	POINT OF CONNECTION POINT OF DISCONNECT
RA	RETURN AIR
RF (P)	RETURN FAN
(R) (#)	RELOCATE EXISTING SHEET NOTE
SA	SUPPLY AIR
SOV	SHUT OFF VALVE
200 0000000	
UG	UNDERGROUND

AIR SEPARATOR SCHEDULE

YMBOL	MANUFACTURER & MODEL NO.	GPM	SERVICE	Cv	REMARKS	WEIGHT (LBS.) 1
AS 1	B&G ROLAIRTROL RL-3F	54	CHW	80	INTEGRAL STAINER 5 SEE DETAIL 4.03	160
AS 2	B&G ROLAIRTROL RL-3F	66	HW	80	INTEGRAL STAINER 5 M4.03	160

1 FLOODED WEIGHT W/ BRACKETS

CHEMICAL BYPASS FEEDER

SYMBOL	MANUFACTURER & MODEL NO.	CAPACITY (GAL)	FUNNEL PACKAGE	VALVE PACKAGE	CONNECTIONS (IN)	WT (LBS)	REMARKS
CF 1	GRISWOLD FB-5	5.0	FP-75	VP-75	3/4 NPT	50	SEE 1 M4.01
CF 2	GRISWOLD FB-5	5.0	FP-75	VP-75	3/4 NPT	50	SEE 1 M4.01

BOOSTER PUMP

SYMBOL	MANUFACTURER	MAX	MAX PRESSURĒ	BOOSTER	1 El	_ECTRICA	AL.	(2) REMARKS (3)
:	& MODEL NO.	GPM	(PSI)	DUTY	VOLTS	Ph	HZ	
BP 1	DAVEY PS7040-32 TANK MODEL 105C	100	52	70 GPM @ 40 PSI	460	3	60	MAIN PUMP 62203/W JOCKEY PUMP HS18-30

1) FULL LOAD CURRENT 4.5A, LOCKED ROTOR CURRENT 47.5A

2 SKID MOUNTED TANK & PUMP. INSTALL ON 4" HOUSEKEEPING PAD, SEE $\begin{pmatrix} 8 \\ M3.02 \end{pmatrix}$

3 OPERATING WT 300LBS

SCHOOL EQUIPMENT ANCHORAGE NOTES:

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED FROM SECTION 1632A.2 CALIFORNIA BUILDING CODE (CBC) 2001. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADINGS FOR DESIGN.

THE VALUE OF ad (COMPONENT AMPLIFICATION FACTOR) AND RD (COMPONENT RESPONSE MODIFICATION FACTOR) OF SECTION 1632A.2 SHALL BE SELECTED FROM TABLE 16A-O, CBC 2001. THE VALVUE OF I_D (SEISMIC IMPORTANCE FACTOR) AND C_Q (SEISMIC COEFFICIENT) SHALL BE SELECTED FROM TABLE 16A-K AND 16A-Q, CBC 2001, RESPECTIVELY.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWING THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

FAN COIL SCHEDULE

			_	·	·			-		,			/
	SYMBOL	MANUFACTURER & MODEL NO.	CFM	SP	SEN. MBH	LAT: MBH	AMB. °F	KW 2	REMARKS			WEIGHT (LBS.)	
>	FC 1	TRANE TWE065E130	1800	.90	42.8	59.0	105	5.58	(2) REQUIRED SEE DETAIL	2 M4.02	1	200	•
	NOTES:	(1) PROVIDED	WITH	TXV									

2 200/230/1/60

3 EAT 80/67 (DB/WB)

HOT WATER HEATING COIL SCHEDULE (FC-1)

>	SYMBOL 1	ROWS	FPI	CFM	EAT °F	LAT °F	SEN. MBH	WATER ENT.	TEMP. LVG	GPM	PD (FT.)	SIZE	WEIGHT (LBS)
· >	HC 2	2	8	900	65	105	39.04	180	170	8.0	0.14	12x18	36.7

NOTES: (1) (4) REQUIRED

2 SEE DETAIL $\frac{2}{M4.02}$

AIR COOLED CONDENSER SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	COOLING TOTAL MBH	SEN. MBH	AMB. °F	VOLT E	LEC ø	TRICAI Hz	MCA	WGT. (LBS.)	SEER	REMARKS
CU 1	TRANE 2TTZ9060A	59.0	42.8	105	200/230	1	60	37	400	17.0	(2) REQUIRED 4 SEE DETAIL M3.03

PACKAGE HEAT PUMP SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	COOLING TOTAL MBH	CFM	AMPS 230/1/60	EER	HEATING MBH	COP	REMARKS	WEIGHT (LBS)
HP 1	TRANE PTHD15	14.1	350	6.5	9.7	13.3	3.2	SEE DETAIL 5	107

NOTE: INCLUDE INTERNAL CONDENSATE DISPOSAL PUMP KIT

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	055)//05	SIZE	HEIGHT	DIA.	CHARGED WEIGHT	REMARKS
	& MODEL NO.	SERVICE	(GAL)	(IN)	(IN)	(LBS)	
CT	B&G B-35LA	CHW	10	38	10	144	ASME RATED 8 M4.03
CT 2	B&G B-35LA	HW	10	38	10	144	ASME RATED 8 M4.03

VARIABLE AIR VOLUME TERMINAL SCHEDULE

			·				,		·			
SYMBOL	MANUFACTURER	ROOM	CFM		ΔP LOSS	INLET		NC	4 НЕАТ		OIL (1)	WGT.
***************************************	& MODEL NO. (2)		MAX.	MIN.	MAX.	DIA.	RAD.	DISCHG.	3 мвн	GPM	WPD	(LBS.)
VAV 1	TITUS DESV-8	OFFICES (3)	750	400	0.6	8	23	20	24.0	2.3	1.5	50
VAV 2	TITUS DESV-16	LECTURE 1	3000	750	0.6	16	22	20	44.5	1.8	0.2	55
VAV 3	TITUS DESV-12	LECTURE 2	1600	400	0.6	12	24	21	30.0	2.3	1.1	52
VAV 4	TITUS DESV-6	PREP 1	450	200	0.6	6	23	20	11.3	0.6	1.8	50
VAV 5	TITUS DESV-6	PREP 2	500	200	0.6	6	24	21	14.9	3.0	0.2	50
VAV 6	TITUS DESV-16	LAB	3010	750	0.6	16	22	20	44.5	1.8	0.2	55
VAV 7	TITUS DESV-16	EXHIBIT	3440	800	0.6	16	24	22	45.8	1.8	0.2	55
NOTES:	(1) 180°F FWT								,			

- (2) SELECTION BASED ON TITUS. SEE SPECIFICATIONS FOR APPROVED EQUAL.
- (3) MBH BASED ON MINIMUM AIR FLOW FOR HEATING.

4) 2 ROW HEATING COIL

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DSA Application

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE# 7-C1 APPL # 107986

Drawing Record/Revisions 04/14/06 DSA SUBMISSION 06/19/06 BID SET

MARK DATE DESCRIPTION

Contra Costa Community College District Diablo Valley College

Planetarium & Classroom

321 Golf Club Road

Renovation

Pleasant Hill, CA 94523

MECHANICAL SCHEDULES & LEGEND

BID SET 06-19-06

BOILER SCHEDULE MANUFACTURER INPUT OUTPUT EWT LWT GPM AP ELECTRICAL WGT. & MODEL NO. 5 (MBH) (MBH) °F °F (FT.) VOLT Ph Hz (LBS.) REMARKS 12346 SEE DETAIL W401 EVOM-750 750.0 | 660.0 | 160 | 180 | 66 | 2 | 480 | 3 | 60 | 970 1 MODULATING GAS VALVE.

2 7" W.C. MIN. GAS PRESSURE

3 INCLUDE MOD. BUSS CARD CO.

4 U.L. APPROVED FOR OUTDOOR INSTALLATION.

(5) MANUFACTURER THERMAL SOLUTIONS.

6 FLUE FURNISHED AND INSTALLED BY BOILER MANUFACTURERS AGENT.

AIR COOLED WATER CHILLER SCHEDULE CAPACITY EAT EWT LWT GPM PD ELECTRICAL WGI. | (°F) (°F) VOLT Ph Hz COMP. FAN MCA (LBS.) SYMBOL MANUFACTURER & MODEL NO. (TONS) TRANE 105 | 45 | 55 | 65 | 6.2 | 460 | 3 | 60 | 33.27 | 3.6 | 65 | 3060 CGAFC30E 1) FLOW SWITCH INCLUDED, FIELD INSTALLED. 2 SPRING ISOLATORS WITH SEISMIC RESTRAINTS EQUAL TO MASON SSLFH 2" DEFLECTION, OSHPD PRE-APPROVED. (3) INLET STRAINER INCLUDED, FIELD INSTALLED. 4 SEE DETAIL 7 M4.01

		AIR	HAN	IDL	ER	SC		ED	ULE	1
SYMBOL	MANUFACTURER & MODEL NO.	TYPE	CFM	ESP (IN.)	HP 1	ELE(T****		. WGT. (LBS.)	REMARKS 23
TRANE INDOOR 12,000 2.0 15 460 3 60 1818 SEE COOLING COIL & PRE-HEAT COIL SCHEDULE								SEE COOLING COIL & PRE-HEAT COIL SCHEDULES (5)		
NOTES:	PRE-HEAT COIL SCHEDULES (5									

	AH-1 COIL SCHEDULES															
COOLING COIL 1																
SYMBOL						ΔP (FT.)	SYMBOL	ROWS	FPI	HTG.3 (MBH)	EAT (°F)	LAT (°F)	GPM	ΔP (FT.)	FV (FPM)	
CC 1	CC 4 9 257 78 58 51 3.0							HC 1	1	12	488	60	98	49	5.4	582
NOTES: ① CFM = 12,000 ② 45/55 EWT/LWT ③ 180/160 EWT/LWT																

	PUMP SCHEDULE														
	CHILLED WATER PUMP (5) HOT WATER PUMP (6)														
SYMBOL	MFG. & 2 MODEL #4	GPM	HD (FT)(1	MOTOR HP(1)	VOLT	TT		SYMBOL	MFG. & 2 MODEL #	GPM	· . ~	MOTOR HP(1)			
P 1	B & G 3 60-2×6-4	65	20	1	460	3	60	P 2	B & G 3 60-2x6-1/4	66	30	1	460	3	60
NOTES: 1 TEFC MOTOR 4 P-1 = 8 2 IN-LINE PUMPS P-2 = 8 3 BELL & GOSSETT 5 SEE DETA							6 SE	E DE	-	2 M4.01					

RELIEF AND EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	AREA SERVICE	CFM	ESP (IN.)	HP	VOLTS/ PHASE	WEIGHT (LBS.)	REMARKS (1)
EF 1	GREENHECK	RESTROOM/ CLASSROOM AREA EXHAUST	1800	1.0	1	460/3	150	BELT DRIVE, OPERATE CONTINUOUSLY, MANUAL SWITCH, SEE DETAIL 6 M4.02 2
EF 2	ABEEL 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RELIEF AIR SYSTEM AH-1	12000	.25	2	460/3	200	SEE DETAIL 10 M4.03

1) INCLUDE BACKDRAFT DAMPER ON OUTLET.

(2) HANGING SPRING ISOLATORS MODEL SH-1-70. (BY KINETICS) OR EQUAL

DIFFUSER SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	CFM RANGE	NECK SIZE	BLOW	PATTERN	REMARKS
D-1 CFM	TITUS TMS-VAV	200-325	10"	2-WAY		24x24 FOR T-BAR CEILING 3
D-2 CFM	NOT USED					
D-3 CFM	TITUS TDC	325-500	12"	4-WAY	4	24x24 TYPE 3 FOR T-BAR CEILING 3
D-4 CFM	TITUS TDC	100-280	9x9	3-WAY	4	FRAME 6

REGISTER, LOUVER AND GRILLE SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO. 4	CFM RANGE	NECK SIZE	SERVICE	TYPE	REMARKS
E-1 CFM	TITUS 355RL	100-200	14x8	EA	_	37
E-2 CFM	TITUS PAR	400-550	12"	EA	_	24×24 FRAME PERFORATED (3)
E-3 CFM	TITUS 355RS	150-250	10×10	EA	_	3
E-4 CFM	TITUS 355RS	50-130	6x6	EA	_	3
L-1	RUSKIN ELF6375DX	1800	30×24	FA	LOUVER	56
L-2	RUSKIN ELF6375DX	12000	66×48	FA/EA	LOUVER	(2) REQ'D 56
R-1 CFM	TITUS PAR	200-350	10"	RA		24×24 FRAME PERFORATED (3)
R-2 CFM	TITUS PAR	1000-2000	22×22	RA	_	24x24 FRAME PERFORATED 3
R-3 CFM	TITUS 1700	800-1200	20×14	RA	SIDEWALL	3
R-4 CFM	TITUS 350RL	100-250	6×6	RA	CEILING	3
R-5 CFM	TITUS 350RL	1800	24×24	RA	CEILING	35
S-1 CFM	TITUS 1700	400-600	18x8	SA	SIDEWALL	3
S-2 CFM	TITUS LL-2 (LINEAR)	835	12×60	SA	CEILING	78
S-3 CFM	TITUS 300RL	200-350	16x6	SA	SIDEWALL	37

DIFFUSER, REGISTER, LOUVER AND GRILLE NOTES

- (1) MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
- (2) SHALL BE TITUS TDC TYPE 3 OR EQUAL BY OTHER APPROVED MANUFACTURERS (SEE SPECIFICATIONS).
- (3) FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
- (4) NUMBER SHOWN INDICATING TYPE ARE TITUS UNLESS OTHERWISE LISTED. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
- (5) BAKED ENAMEL FINISH TO MATCH BUILDING WALL OR CEILING.
- (6) PROVIDE ALUMINUM BIRD SCREENS.
- (7) PROVIDE OPPOSED BLADE DAMPERS BEHIND DIFFUSER OR REGISTER.
- (8) PAINT TO MATCH DUCT PER ARCHITECT COLOR SELECTION.

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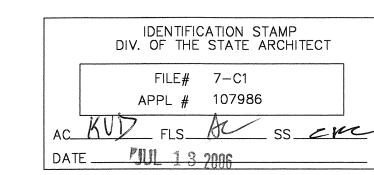
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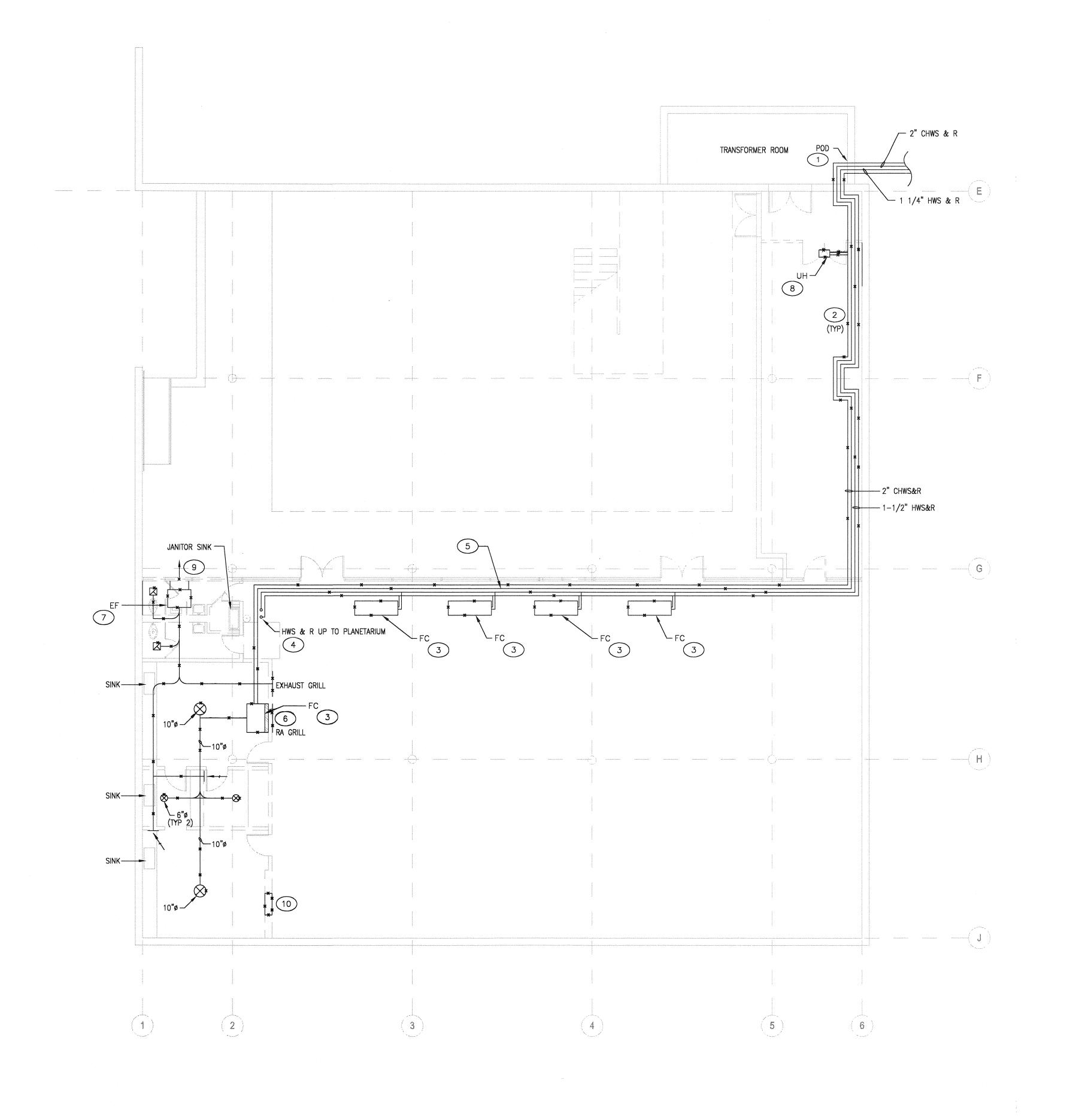
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Renovation

MECHANICAL SCHEDULES



DEMOLITION GROUND FLOOR MECHANICAL PLAN

GENERAL NOTES:

DRAWING NOTES:

- A: SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS
 B: COORDINATE ALL MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL WORK.
 C: MAKE REQUIRED CONNECTIONS TO SERVICES.
- D: ALL HVAC AND PIPE SUPPORTS SHALL BE PER SMACNA STANDARD

1 REMOVE (E) CHWS & R AND HWS & R PIPING.
DISCONNECT AT WALL AND REPAIR FLUSH TO WALL.

5 REMOVE ALL (E) CONTROLS FOR HVAC SYSTEMS.

6 REMOVE (E) RA GRILL.

2 REMOVE (E) PIPE HANGERS. PATCH & REPAIR CEILING/WALLS TO MATCH (E).

REMOVE (E) FAN COIL UNITS (FC) INCLUDING ANCHORS, PIPING, CONTROLS. PATCH AND REPAIR ALL ANCHORS AND OTHER AREAS RELATED TO MECHANICAL SYSTEMS.

HWS & R PIPING TO BE REMOVED TO PLANETARIUM MECHANICAL

7 REMOVE (E) EXHAUST FAN (EF) INCLUDING DUCTS, GRILLS & REGISTERS.

8 REMOVE (E) UNIT HEATERS (UH) AND PIPING. CAP PIPING AT POD.

9 SEE ARCHITECTS DEMO PLANS FOR EXHAUST LOUVER DEMOLITION.

REMOVE (E) PIPING MANIFOLD AND CAP PIPING BEHIND (N) FINISHED SURFACE.



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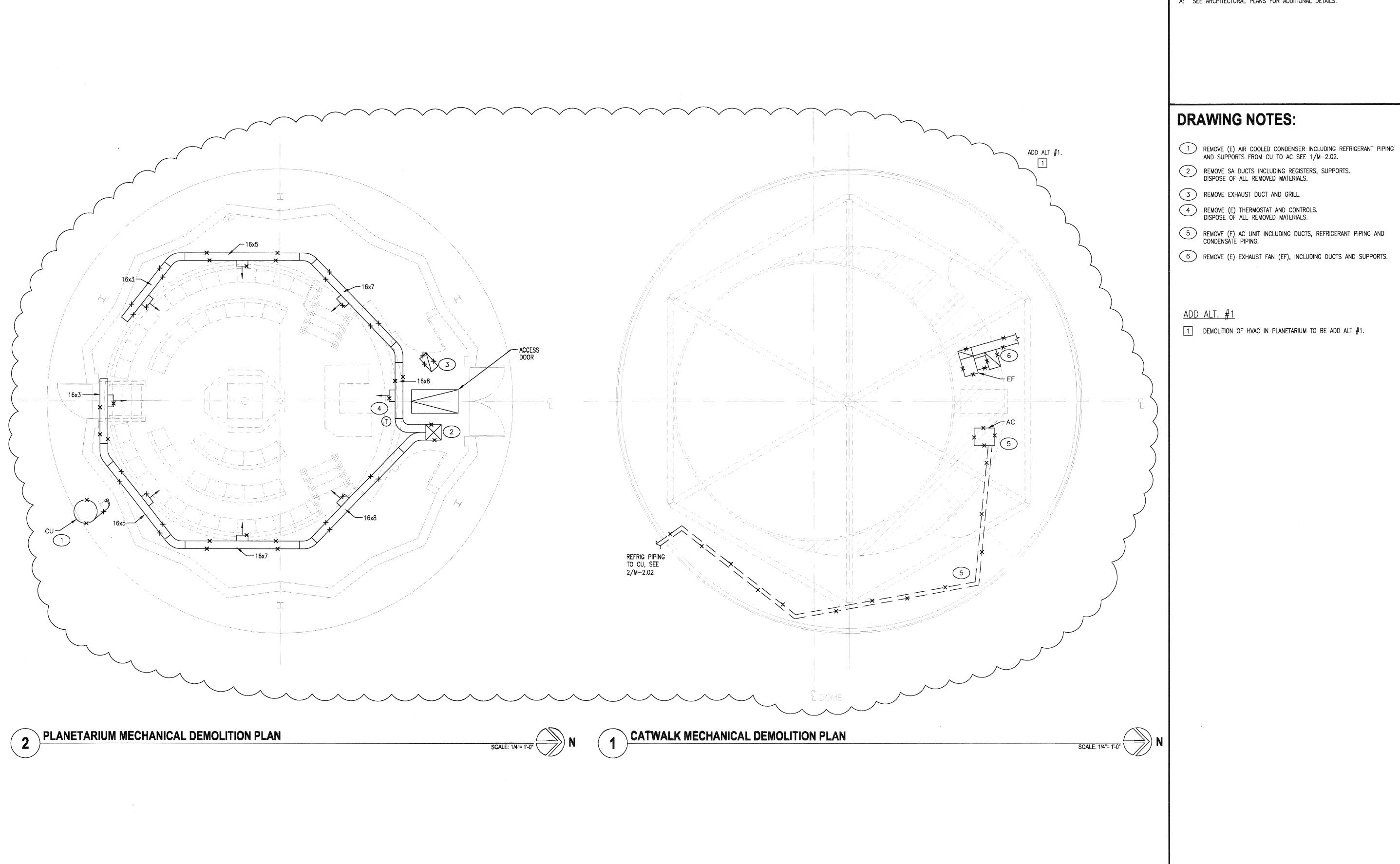
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GROUND FLOOR MECHANICAL DEMOLITION PLAN



GENERAL NOTES:

A: SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS.

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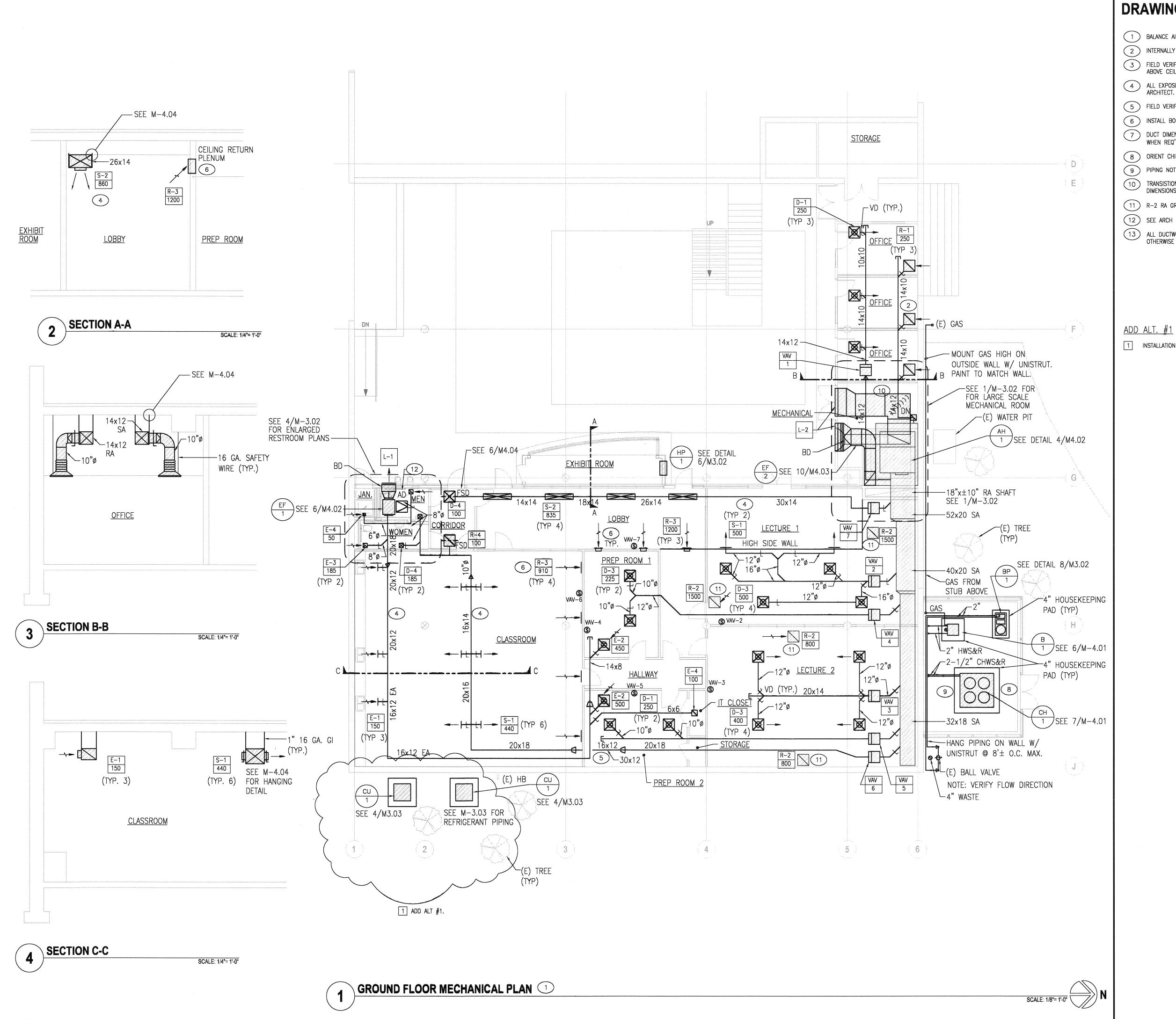
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PLANETARIUM & CATWALK **MECHANICAL DEMOLITION PLANS**

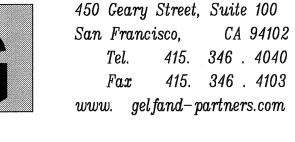


DRAWING NOTES:

- (1) BALANCE AIR FLOWS TO VALUES SHOWN ON M-3.01
- 2 INTERNALLY LINE RA DUCT FULL LENGTH.
- FIELD VERIFY DUCT CROSS-OVER DIM. ADJUST TO CLEAR SPACE ABOVE CEILING.
- 4 ALL EXPOSED DUCTS TO BE PRIMED & PAINTED. COLOR BY ARCHITECT.
- (5) FIELD VERIFY CROSS OVER DIMENSIONS.
- (6) INSTALL BOOT THROUGH WALL SAME SIZE AS GRILL, (TYP).
- (7) DUCT DIMENSIONS ARE NET INSIDE. ALLOW FOR INTERNAL LINING WHEN REQ'D.
- 8 ORIENT CHILLER FOR TUBE REMOVAL AT OPEN DOORS.
- 9 PIPING NOT SHOWN FOR CLARITY. SEE M-3.03 FOR PIPING.
- TRANSISTION INLET AND OUT LET OF VAV UNITS TO MATCH UNIT DIMENSIONS.
- (11) R-2 RA GRILLS TO TRANSFER AIR TO CEILING RETURN (TYP).
- (12) SEE ARCH PLANS FOR (N) AD.
- 13) ALL DUCTWORK, EQUIPMENT, ETC. THIS SHEET IS NEW UNLESS OTHERWISE NOTED.

1 INSTALLATION OF CU/1(2) UNITS TO BE IN ADD ALT #1.

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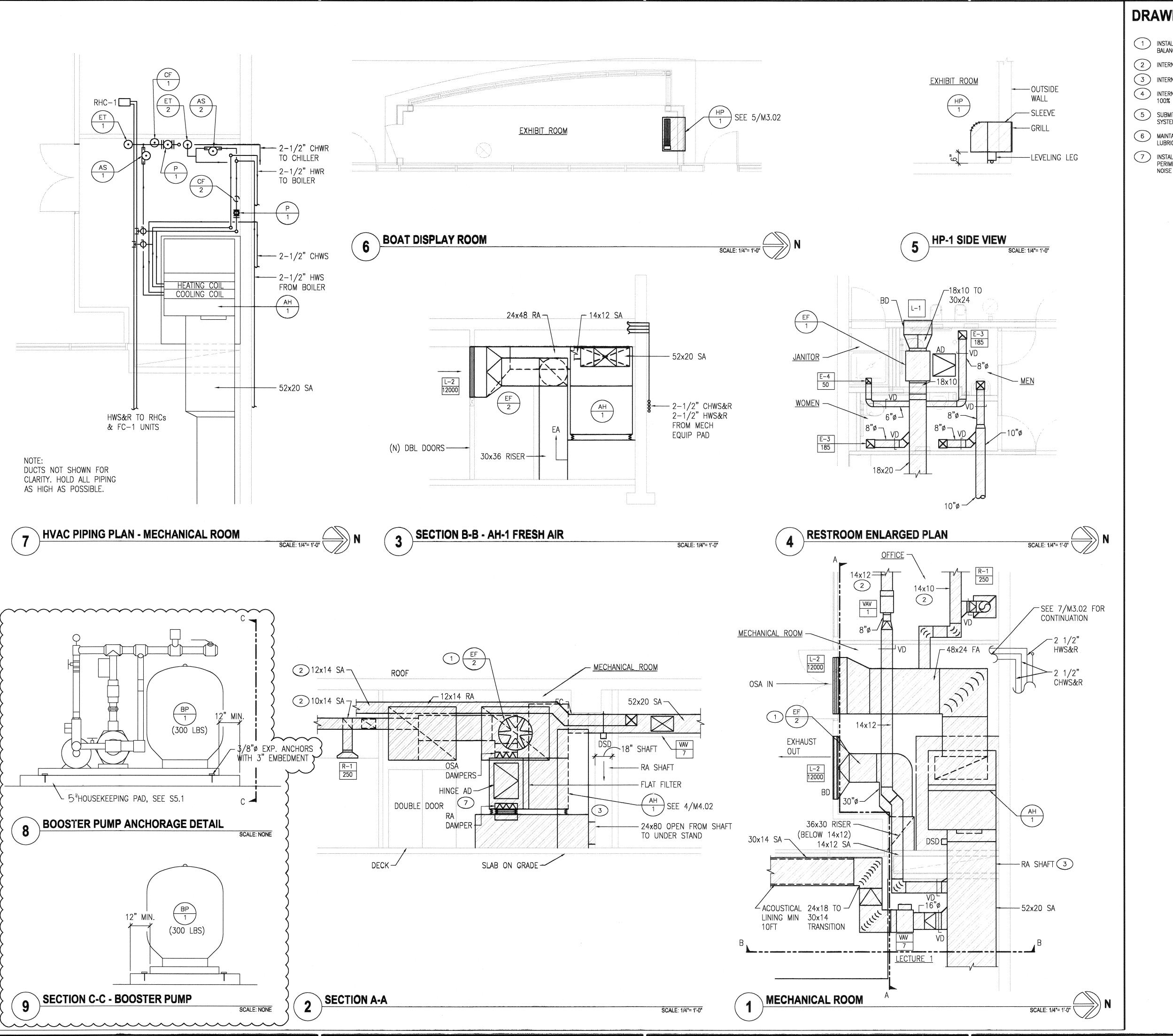
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GROUND FLOOR MECHANICAL PLAN



DRAWING NOTES:

- 1 INSTALL ABB VARIABLE FREQUENCY DRIVE ON EF-2. CONTROL TO BALANCE IN MAIN CLASSROOM ZONES.
- 2 INTERNALLY LINE SA & RA DUCTS.
- 3 INTERNALLY LINE RA SHAFT (ALL SURFACES INSIDE CHASE)
- 4 INTERNALLY LINE INSIDE OF AH-1 CONCRETE PLATFORM. APPLY 100% ADHESIVE TO ALL SURFACES.
- 5 SUBMIT SHOP DRAWINGS OF WET AND DRY SIDE OF MECHANICAL SYSTEMS IN MECHANICAL ROOM FOR AH-1.
- 6 MAINTAIN CLEARANCE FOR CHANGING FILTERS, STRAINERS, LUBRICATION, ETC. IN AH-1 MECHANICAL ROOM.
- 7 INSTALL HINGED ACCESS DOOR WITH CAM LOCKS AND FULL PERIMETER GASKETED SEAL. PROVIDE FOR ZERO LEAKAGE AND OR NOISE FROM LEAKS AROUND THE DOOR.

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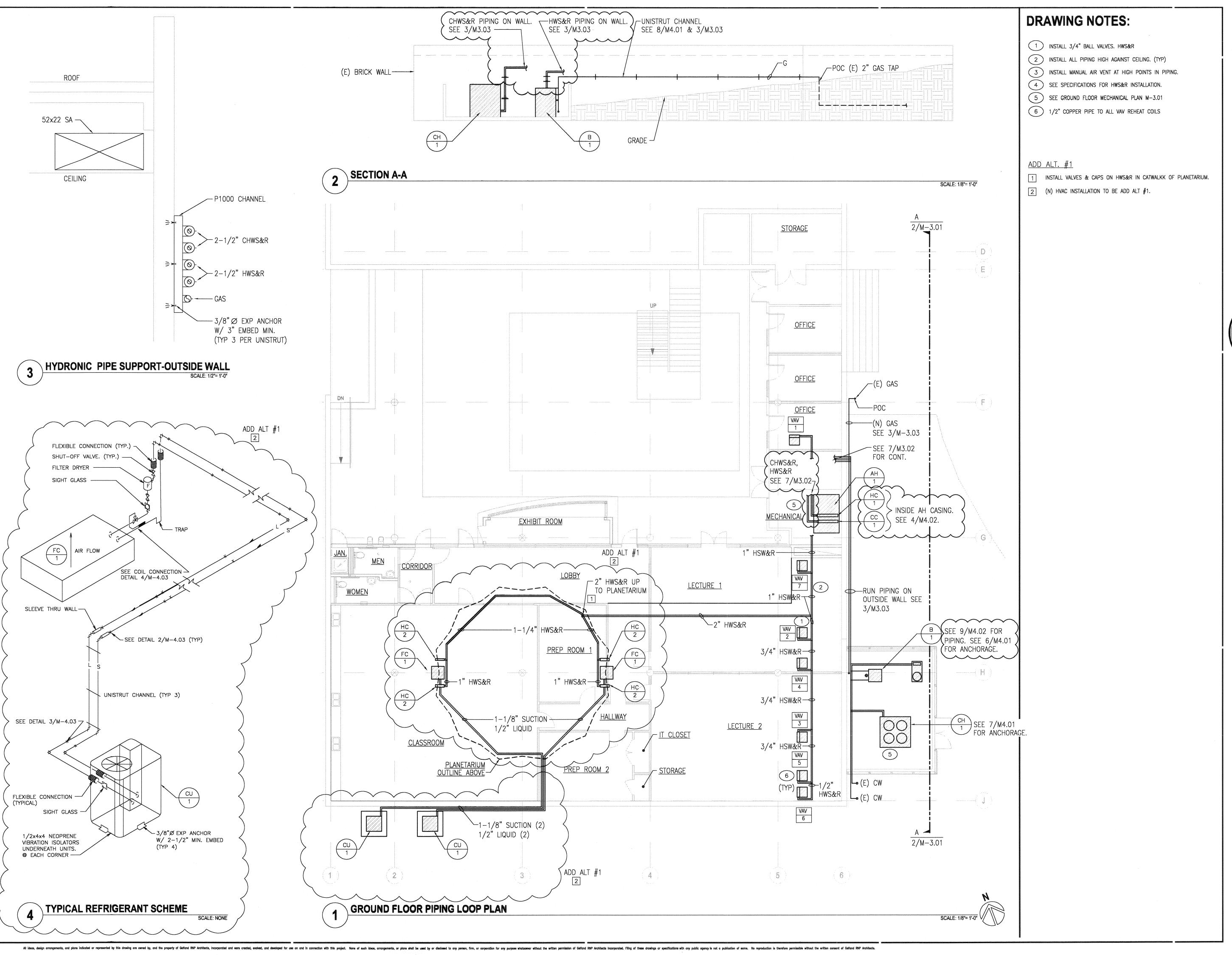
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MECHANICAL LARGE SCALE DETAILS

M-3.02

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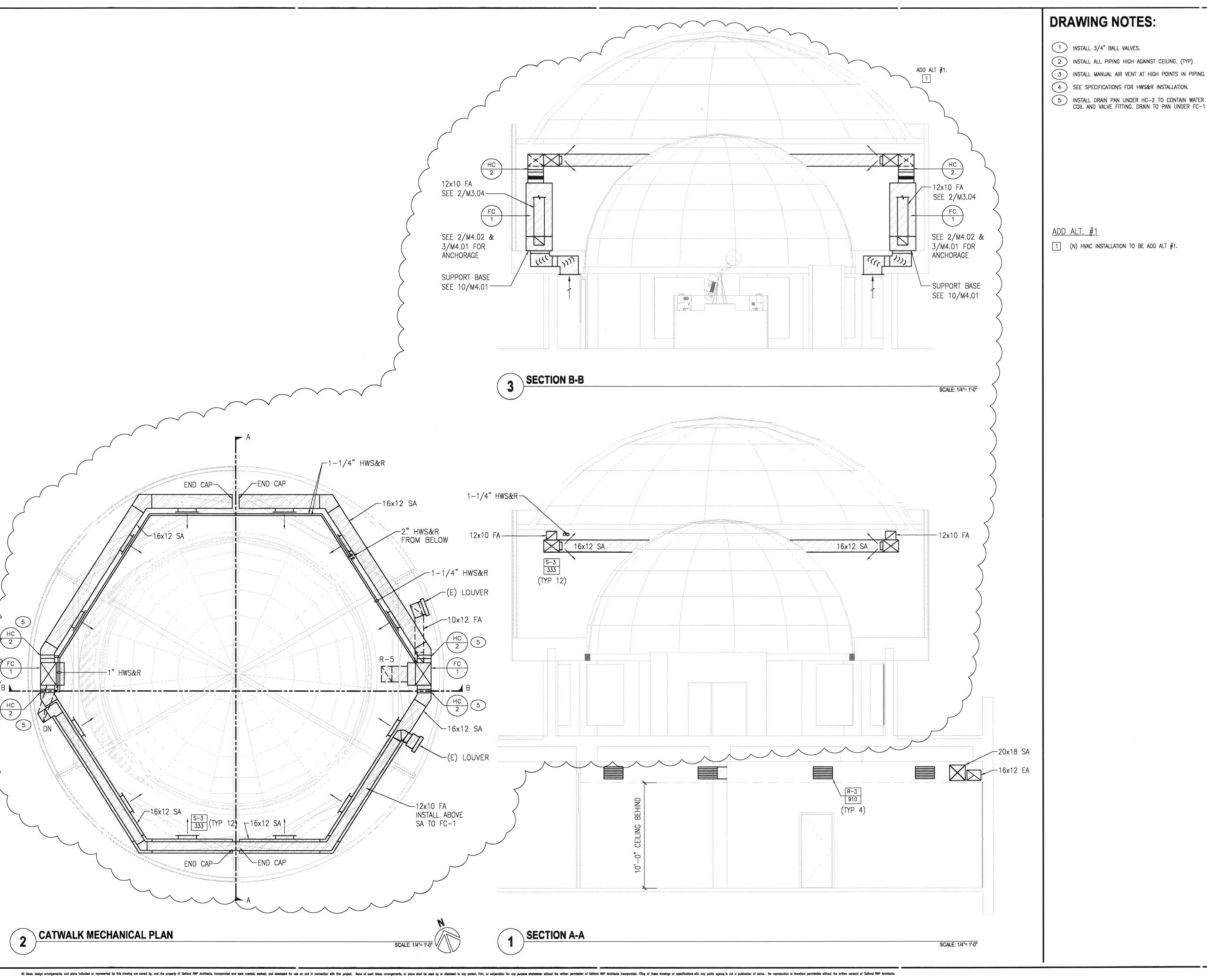
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

> 321 Golf Club Road Pleasant Hill, CA 94523

GROUND FLOOR PIPING LOOP PLAN & SECTION



- 4 SEE SPECIFICATIONS FOR HWS&R INSTALLATION.

5 INSTALL DRAIN PAN UNDER HC-2 TO CONTAIN WATER LEAKS FROM COIL AND VALVE FITTING. DRAIN TO PAN UNDER FC-1 UNITS.

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STRUCTURAL: Dasse Design 33 New Montgomery Suite 850

San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) MECHANICAL/ PLUMBING:

Heitz Engineering 6918 Merrywood Court Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax) WHM Engineering 1605 School Street

Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE# 7-C1 APPL # 107986 ACKUD FLS M SS WE

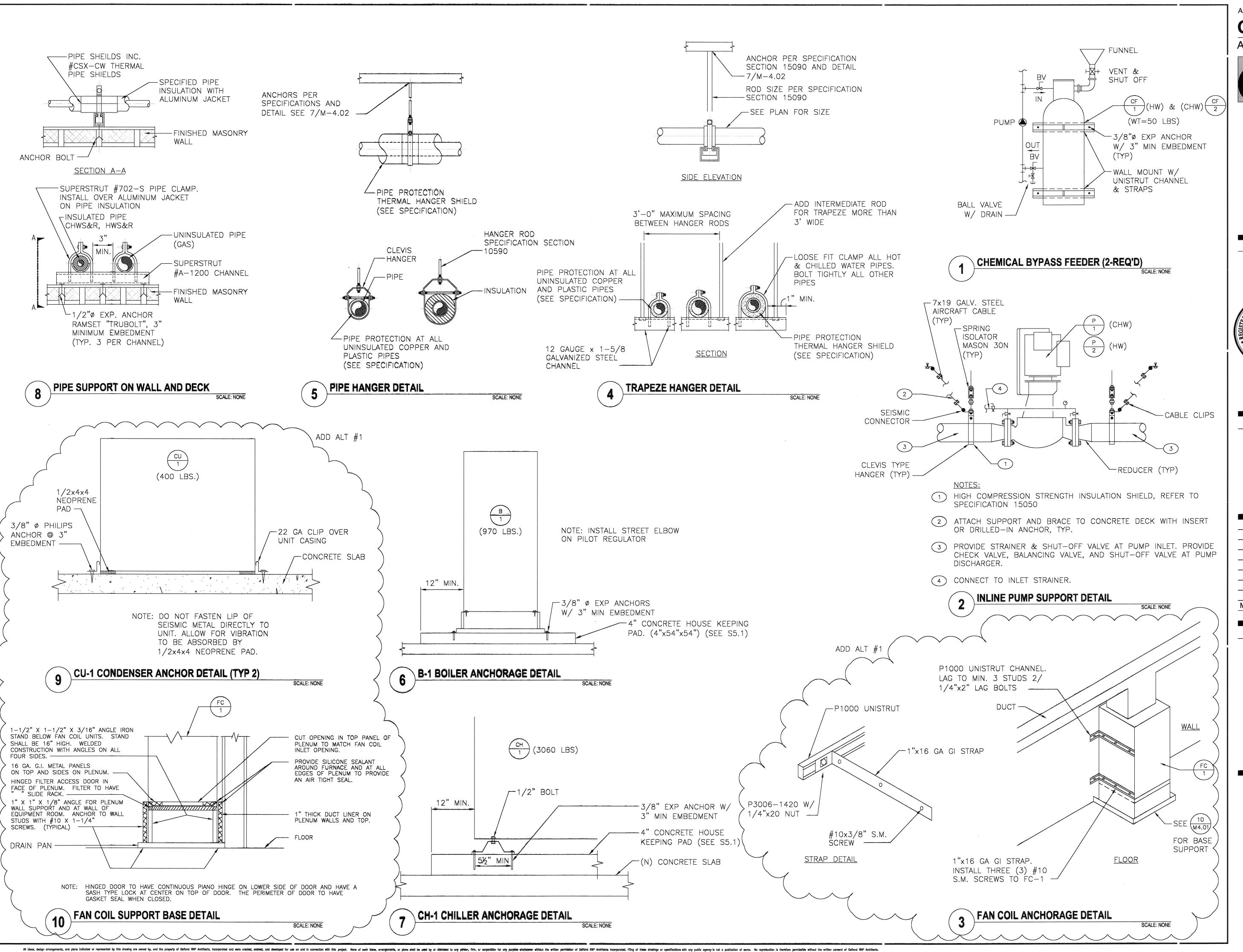
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	04/14/06	DSA SUBMISSION
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MARK	DATE	DESCRIPTION

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

CATWALK MECHANICAL PLAN & SECTION



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MECHANICAL/PLUMBING 6918 Merrywood Court Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax)

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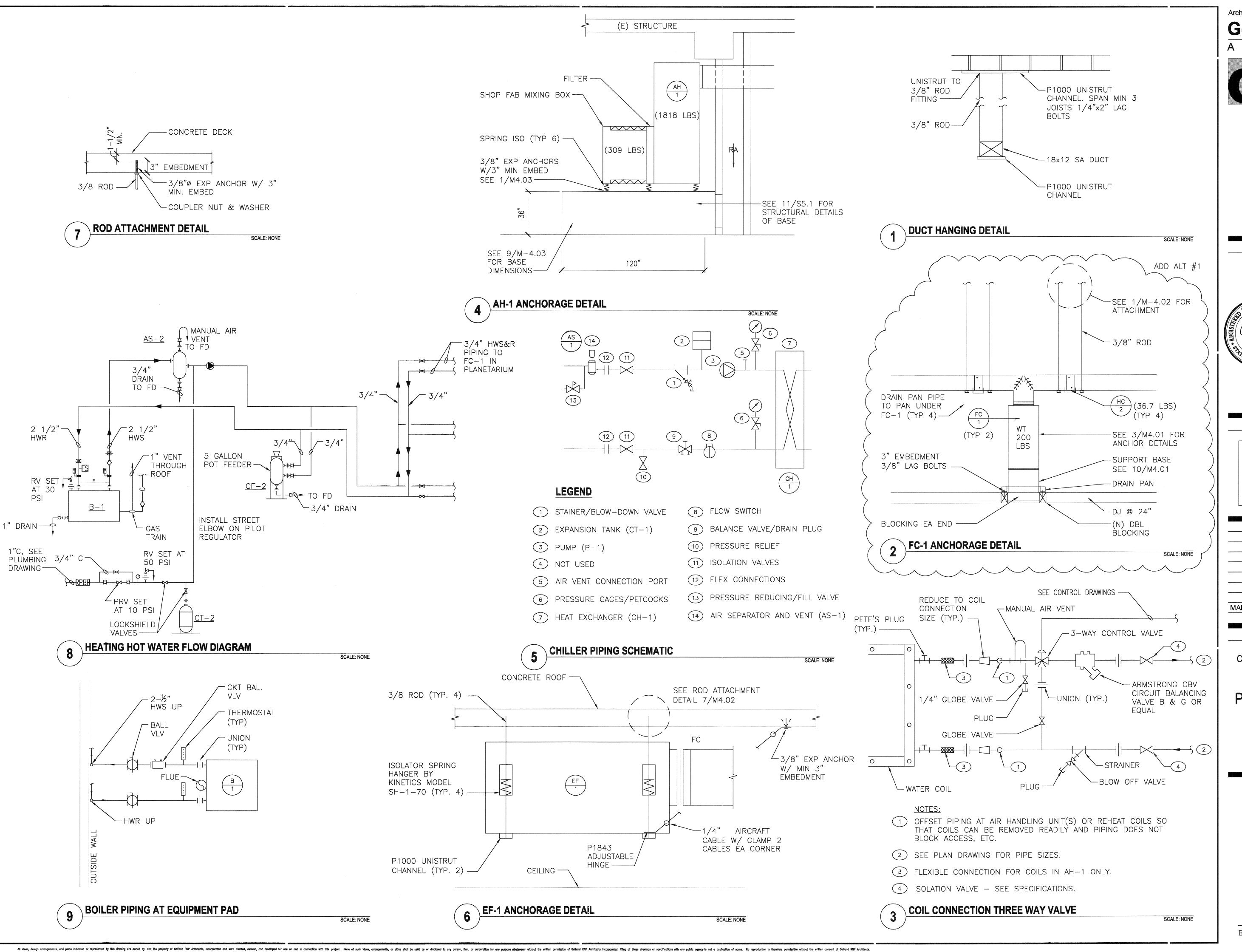
Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

321 Golf Club Road Pleasant Hill, CA 94523

MECHANICAL DETAILS

BID SET

06-19-06



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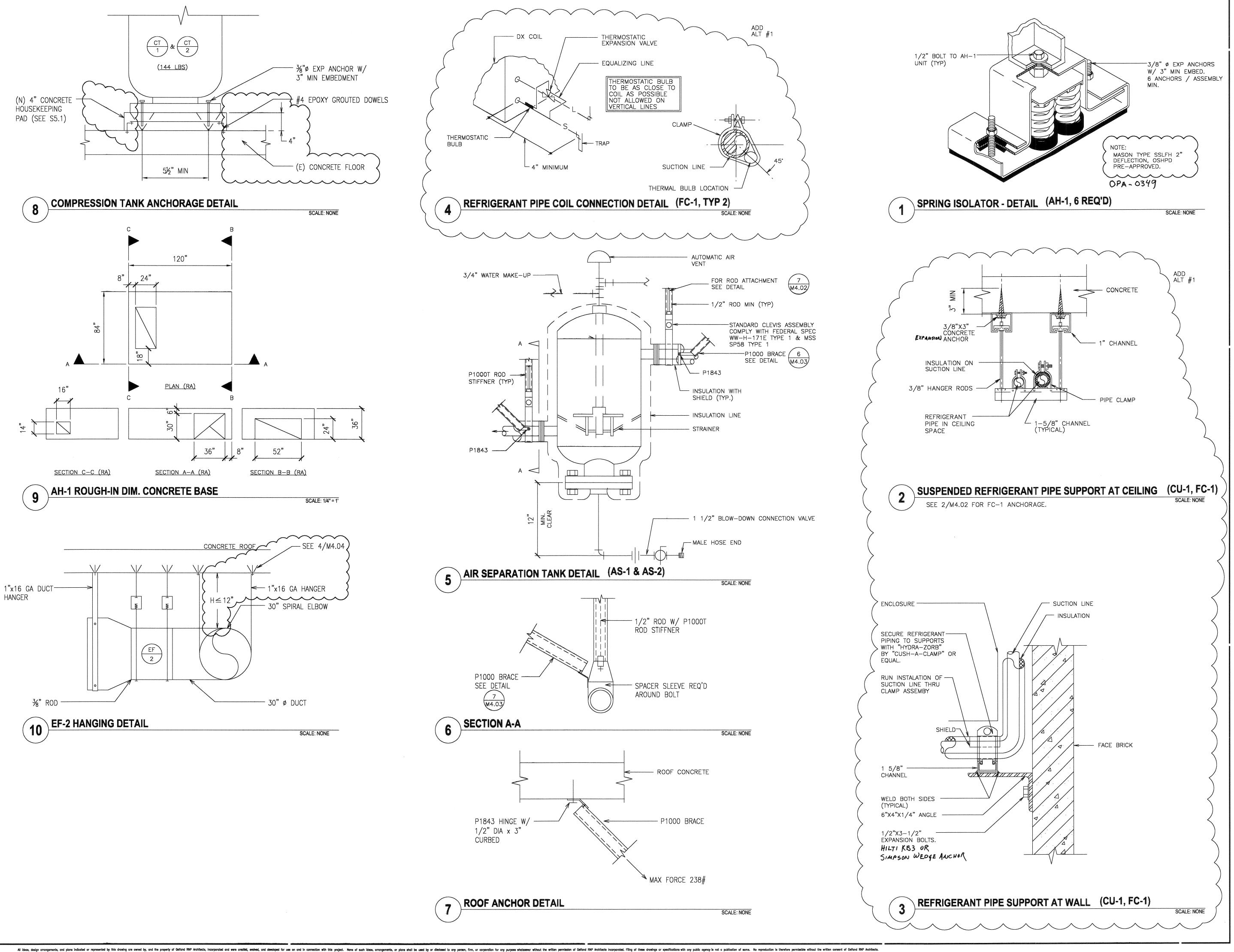
Contra Costa Community College District Diablo Valley College

Planetarium & Classroom Renovation

> 321 Golf Club Road Pleasant Hill, CA 94523

MECHANICAL DETAILS

06-19-06 BID SET



Partners

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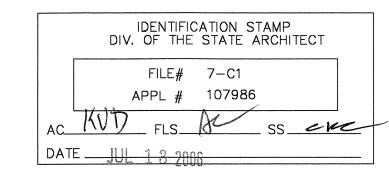
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Consultants 33 New Montgomery Suite 850 San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/PLUMBING:** Heitz Engineering 6918 Merrywood Court Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax)

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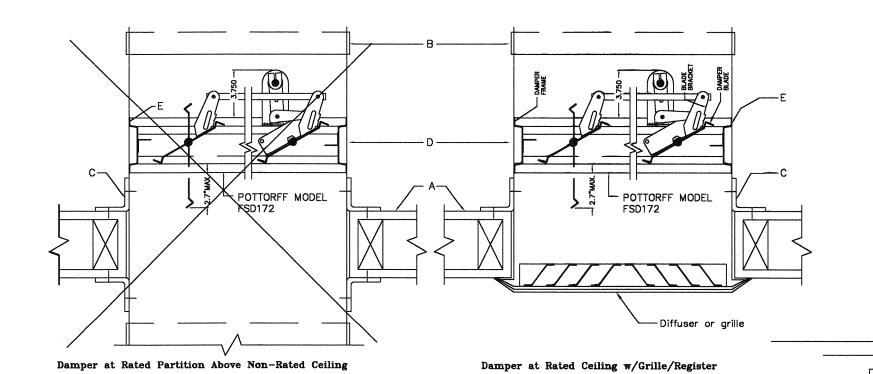
Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

MECHANICAL **DETAILS**

06-19-06



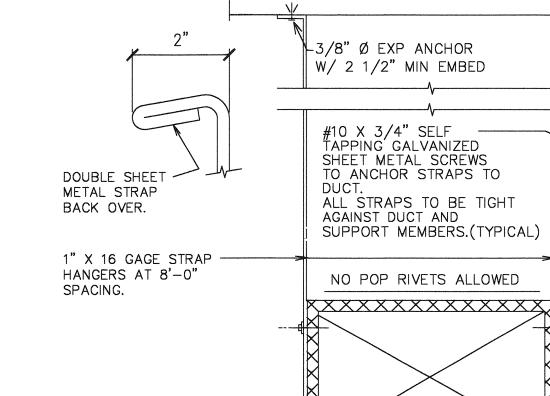
A. Wood or steel framed ceiling shown. See Wood Stud and/or Steel Stud Framing for Fire Dampers in Tunnel Corridor Drywall and/or Shaftwall Ceilings Supplemental Installation Instructions for further details. Opening shall be a minimum 1/4" to a maximum of 3/4" larger than the overall

B. For rigid type duct connections, the sleeve shall be a minimum of 16 gauge. When lighter gauge sleeves are used, one or more of commonly used break away style connections are required.

Refer to Sleeve Termination Supplemental Installation Instructions for further details. In no case will the sleeve gauge be less that the duct gauge to which it is connected. Damper sleeve shall not extend more than 16" beyond the rated ceiling on the actuator side. The opposite side extension shall be a maximum of 6" unless an access door is installed in the sleeve which then permits the extension to be a maximum of 16".

Mounting angles shall be a minimum of 1—1/2" x 3/4" x 20 gauge. The angles shall be attached to the sleeve, not the ceiling, with 3/16" Dia. steel rivets, Quick—Lock Joints, welds, No. 10 bolts or sheet metal screws at 8" o.c. maximum. A minimum of 3/4" x 20 gauge flange termination may be used in lieu of mounting angles on the bottom side of the damper sleeve. Refer to Sleeve Termination Supplemental Installation Instructions for further details. Ensure that attachment device does not interfere with the operation of the damper and the free movement of

- D. The damper may be installed outside of the ceiling provided the edge of the damper frame is no more than 3" outside the ceiling. The damper shall be attached to the sleeve w/ 3/16" DIA. steel rivets, Quick—Lock Joints, welds or No.10 bolts or sheet metal screws at 8" o.c. maximum. A minimum of two connections per side, top, bottom.
- E. A continuous bead of Dow-Corning 999A & 732, Fiberfax, or GE RTV silicone rubber sealant shall be applied between the damper and the sleeve. Sealant is only required on one side of the
- F. Fire/Leakage rated dampers and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/operator warranties. Damper operator/actuator must be tested prior to system start—up to ensure proper operation. Before applying power to the operator/actuator, the power must be verified.



DUCT STRAP HANGER DETAIL

CONCRETE ROOF

 $H_{MAX} \leq 12$ "

FSD INSTALLATION DETAIL

SCALE: NONE

MULTIPLE ACTUATOR - FIELD WIRING

FIRE/SMOKE DAMPER SPECIFICATIONS:

(APPLIES TO DETAILS 7/M-11, 8/M-11 AND 9/M-11)

ALL FIRE DAMPERS SHALL BE LABELED AND LISTED BY

CALIFORNIA STATE FIRE MARSHAL AND/OR UNDERWRITERS

LABORATORIES. ALL DAMPERS MUST ALSO BE LEAKAGE RATED AND

LABLED UNDER UNDERWRITER LABORATORIES STD. 555S. WITH METAL

DAMPERS SHALL BE INSTALLED PER MANUFACTURERS INSTALLATION

03225. POTTORFF COMPANY, INC. (NO RUBBER SEALS ALLOWED)

TESTED FOR 1 YEAR CONTINUOUS POWER APPLICATIONS SUCH AS

All ideas, design arrangements, and plans indicated or represented by this drawing are owned by, and the property of Gelfand RNP Architects Incorporated and were created, evolved, and developed for use on and in connection with this project. None of such ideas, arrangements, and plans indicated or represented by this drawing are owned by, and the property of Gelfand RNP Architects. Incorporated in this project. None of such ideas, arrangements, and developed for use on and in connection with this project. None of such ideas, arrangements, and developed for use on and in connection with this project. None of such ideas, arrangements, and developed for use on and in connection with this project.

FOR A FULL 30 MIN. CAN BE MOTOR OPERATED. TORQUE REQ'D.

TO MAINTAIN LEAKAGE RATE NOT TO EXCEED O LBS. TORQUE.

INSTRUCTIONS AND/OR STATE FIRE MARSHAL LISTING NO.

PROVIDE NON STALL SOLENOID MOTOR, 64 VA. MAXIMUM.

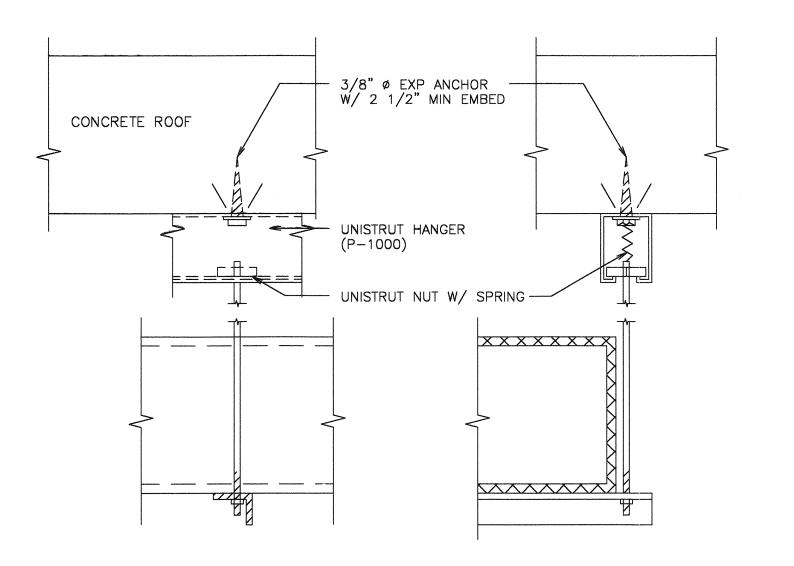
(LISTING # 03225: 0368: 110 AND 03230: 0368: 111)

INVENSYS, SIEMENS AND HONEYWELL.

OR APPROVED EQUAL.

SEALS ALLOWING NO MORE THAN 10 CFM/SQ.FT. AT 1" W.G. TO 350° F

HANGER SIZES FOR RECTANGULAR DUCT HORIZONTAL SUPPORT ANGLE MAXIMUM SIDE MAXIMUM SPACING UP TO 34" | 1"x18 GAGE STRAP NONE REQUIRED 8'-0" 35" TO 46" | 1/4" ROUND ROD 1-1/2"x1-1/2"x1/8" 8'-0"



DUCT STRAP HANGER DETAIL SCALE: NONE

			TI	RANSVERSI	E REINFOR	RCING (1)			
				AT JOINTS					
DIMENSION OF LONGEST SIDE, INCHES	OF METAL AND MAXIMUM LONGEST GAGE LONGITUDINAL SIDE, (ALL SPACING		MIN. H. IN.	DRIVE SLIP PLAIN S SLIP RECOM- MENDED GAGE	HEMMED S SLIP RECOM- MENDED GAGE	ALTER'NT BAR SLIP RECOM- MENDED GAGE	REIN- FORCED BAR SLIF RECOM- MENDED GAGE		
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24		
13 - 18	24	NONE REQUIRED	1	24	24	24	24		
19 - 30	24	1"X1"X1/8" @ 60 IN	1	_	24	24	24		
31 - 45	22	1"X1"X1/8" @ 60 IN	1		-	22	22		

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

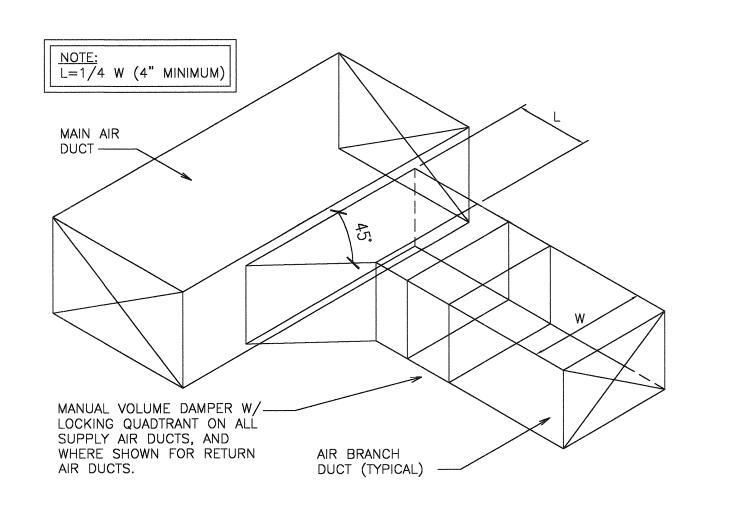
DUCT CONSTRUCTION DETAIL

SCALE: NONE

SCALE: NONE

DUCT LINER. -- SHEET METAL DUCT **FASTENERS** (TYPICAL) DUCT LINER - (1-1/2" THICK) ALL ENDS OF LINER TO BE COATED WITH ADHESIVE. NOT MORE THAN 2" FROM EDGE OF LINER.

2 DUCT LINER DETAIL



SUPPLY OR RETURN AIR DUCT CONNECTION DETAIL SCALE: NONE

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Consultants

STRUCTURAL:

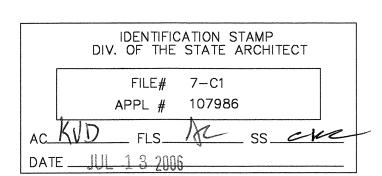
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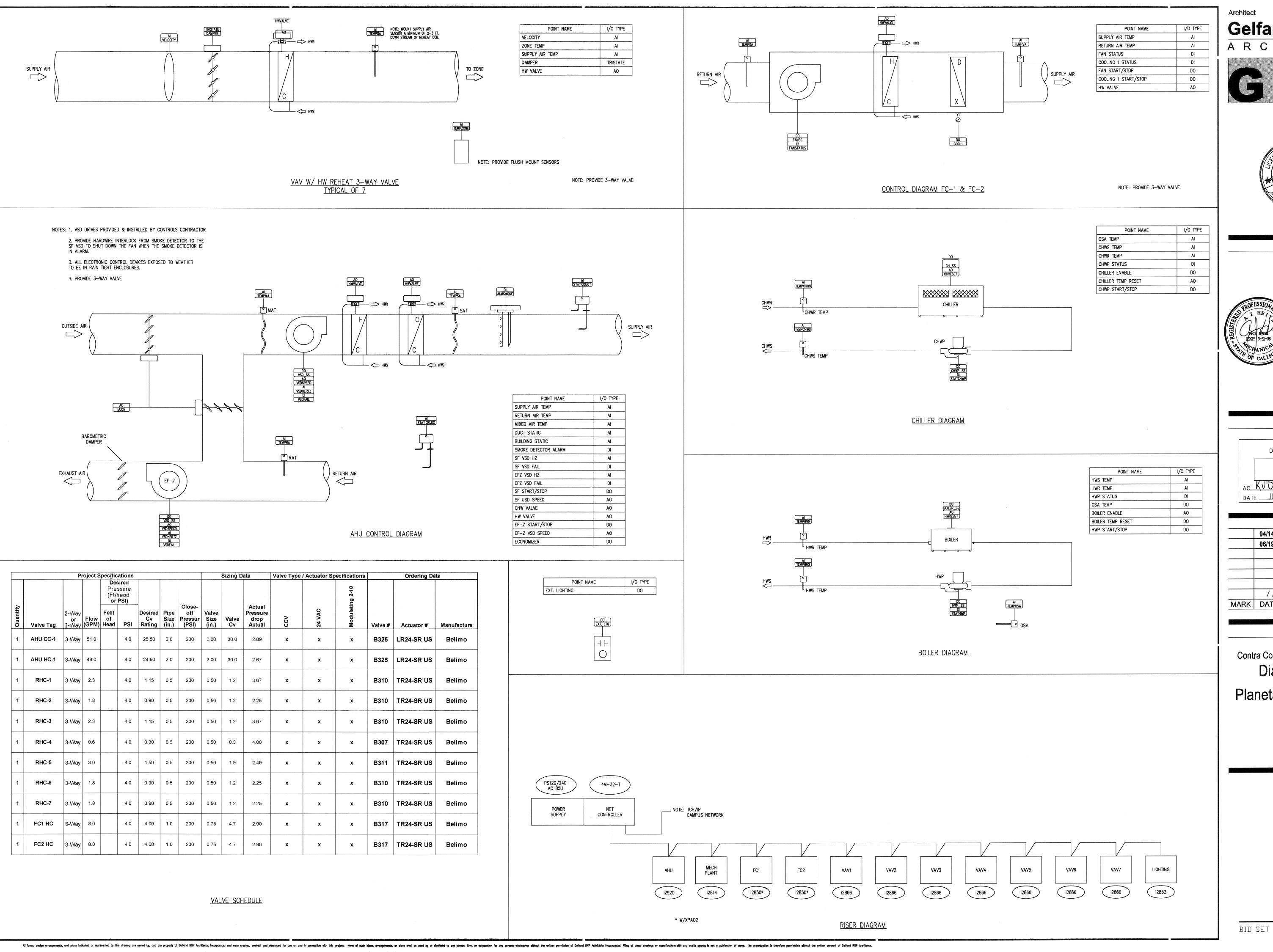
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

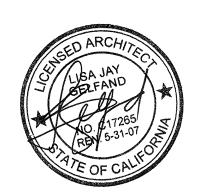
MECHANICAL DETAILS



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Consultants

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE# 7-C1 APPL # 107986 AC KVD FLS AC SS CKE

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MARK	DATE	DESCRIPTION

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

321 Golf Club Road

Pleasant Hill, CA 94523

MECHANICAL CONTROLS

	SOIL OR WASTE PIPE (W)
	VENT LINE (V)
	COLD WATER PIPE (CW)
	HOT WATER PIPE (HW)
G	GAS PIPE (G)
XXX	REMOVE EXISTING
	EXISTING (E)
	NEW WORK (N)
	(HEAVY LINE WEIGHT)
CD	CONDENSATE PIPING
P0C	POINT OF CONNECTION
POD	POINT OF DISCONNECT
CO	CLEANOUT
DN	DOWN
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
COTG	CLEANOUT TO GRADE
VR	VENT RISER
VTR	VENT THROUGH ROOF
SOV	SHUT-OFF VALVE
HB	HOSE BIB
FD	FLOOR DRAIN
DF	DRINKING FOUNTAIN
UG	UNDERGROUND
T & P	TEMPERATURE & PRESSURE
G.C.	GENERAL CONTRACTOR
(E)	EXISTING
(N)	NEW
(NO.)	SHEET NOTE
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
L-	FIXTURE DESIGNATION (SEE PLUMBING SCHEDULE)
	GATE VALVE
F 1	EQUIPMENT DESIGNATION
	GAS COCK
PRV	PRESS REDUCING VALVE
L L/ A	I NESS NEDUCING VALVE

	PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	PIPE SIZE				REMARKS		
		TRAP	WASTE	VENT	C.W.	H.W.	6	
WC-1	WATER CLOSET	INT.	4"	2"	1-1/2"		WALL HUNG (HANDICAP ACCESSIBLE) 24	
(L-1)	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG (HANDICAP ACCESSIBLE) (1)(2)	
<u>S-1</u>	LAB SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	(HANDICAP ACCESSIBLE) (1)(2)	
JS-1	JANITOR'S SINK	3"	3"	2"	1/2"	1/2"	FLOOR TYPE	
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"		BI-LEVEL 2	
FD-1	FLOOR DRAIN	2"	2"	2"		_	WITH DEEP SEAL P-TRAP & TRAP PRIMER	
FS-1	FLOOR SINK	2"	2"	2"		_	WITH DEEP SEAL P-TRAP & TRAP PRIMER	
TP-1	TRAP PRIMER		-	_	1/2"		W/LOCKING ACCESS DOOR AND BALL TYPE SHUT-OFF VALVE 3	
WH-1)	WATER HEATER			-	3/4"	_	STATE ELECTRIC PCE20 10 MSA, 19.5 GAL. 6 KW, 208V, 1 PH SEE DETAIL 2/P-1.01	

1 INSULATE ALL EXPOSED PIPING UNDERNEATH PER HANDICAP CODES. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.

3 TRAP PRIMER TO BE EQUAL TO PRECISION PLUMBING PRODUCTS, INC. (PPP) PR-500 WITH DISTRIBUTION UNIT AS REQUIRED.

4) FLUSH LEVER TO BE ON WIDE SIDE OF STALL.

DRAWING NOTES:

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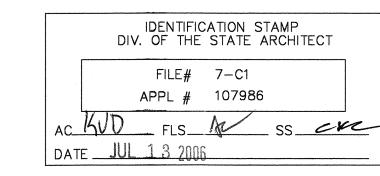


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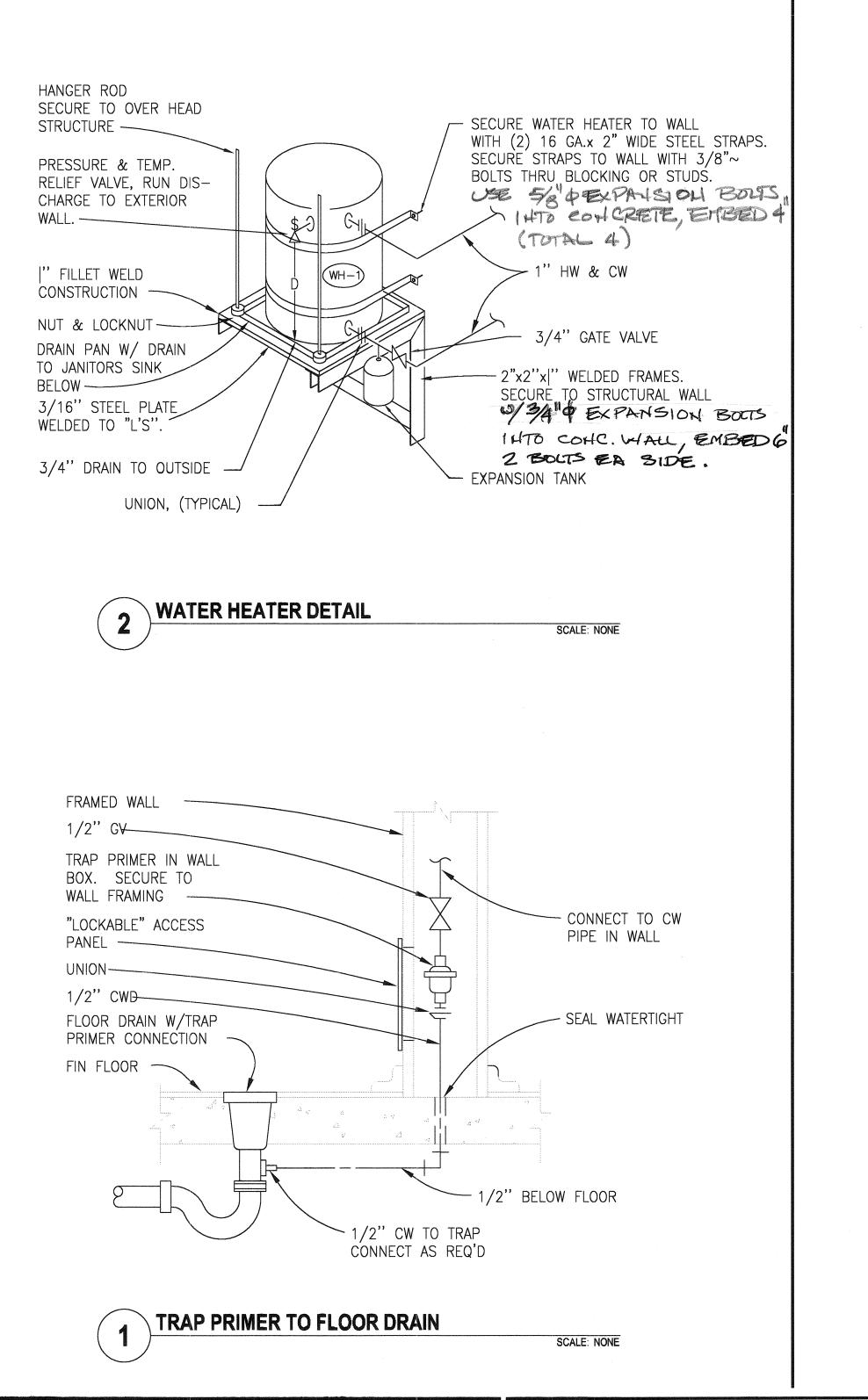
Contra Costa Community College District Diablo Valley College

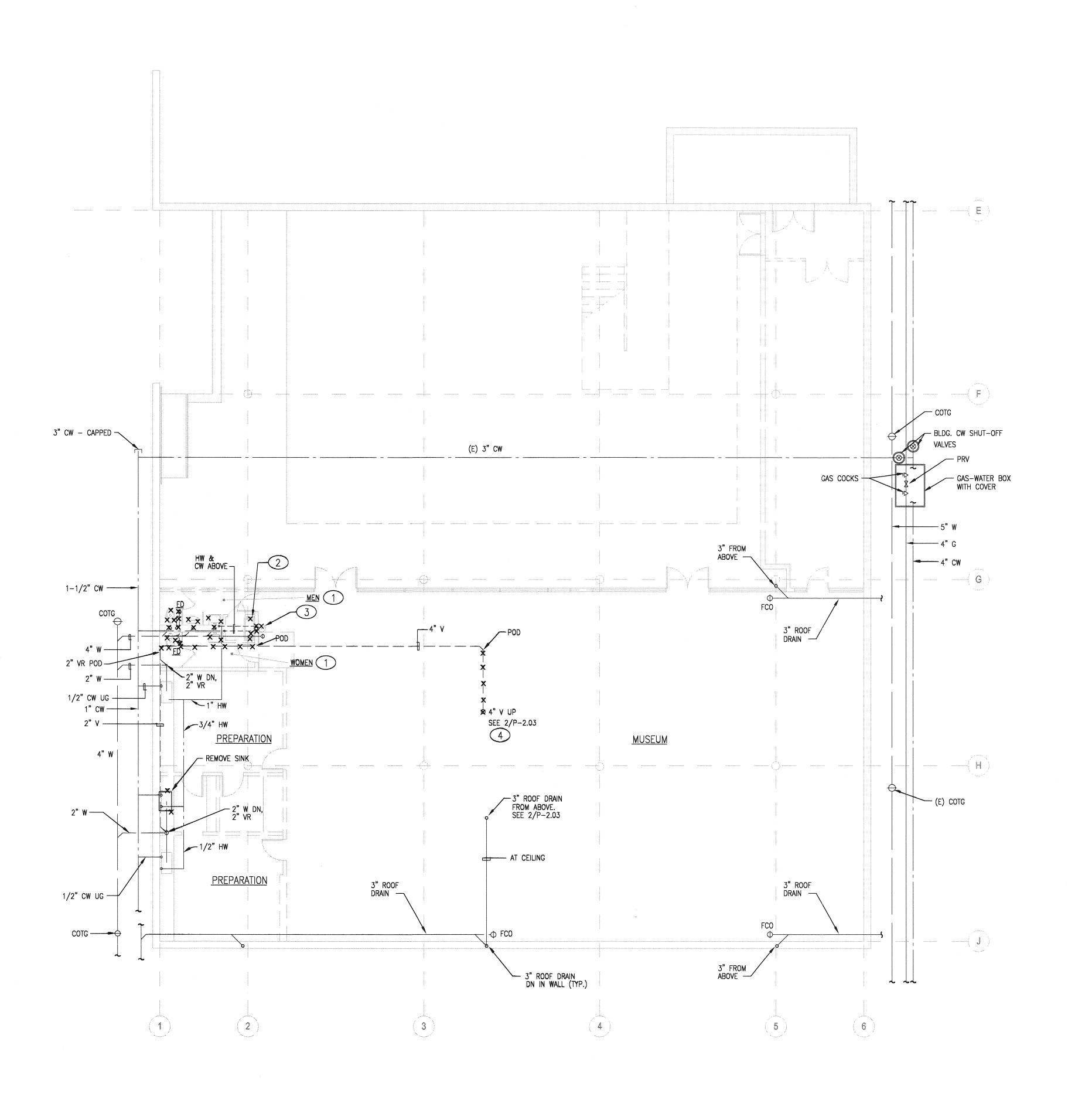
Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

PLUMBING LEGEND, SCHEDULE & DETAILS





GENERAL NOTES:

DRAWING NOTES:

SLAB AS REQUIRED.

- A: SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS
 B: COORDINATE ALL MECHANICAL, PLUMBING, ELECTRICAL AND
- STRUCTURAL WORK.
- C: MAKE REQUIRED CONNECTIONS TO SERVICES.
 D: FIELD VERIFY EXACT LOCATION OF ALL EXISTING PIPING.
 E: EXISTING PIPING, FIXTURES, ETC. TO REMAIN UNLESS OTHERWISE

1 REMOVE ALL RESTROOM FIXTURES AND PIPING AS REQUIRED.

2 REMOVE JANITOR'S SINK AND PIPING AS REQUIRED.

4 REMOVE (E) 4" VR AND INSTALL (N) 4" VR TO CONCEAL WITHIN (N) FINISHED SURFACE IN PLANETARIUM ABOVE. PATCH & REPAIR OPENING IN

3 REMOVE DRINKING FOUNTAIN AND PIPING AS REQUIRED.



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Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

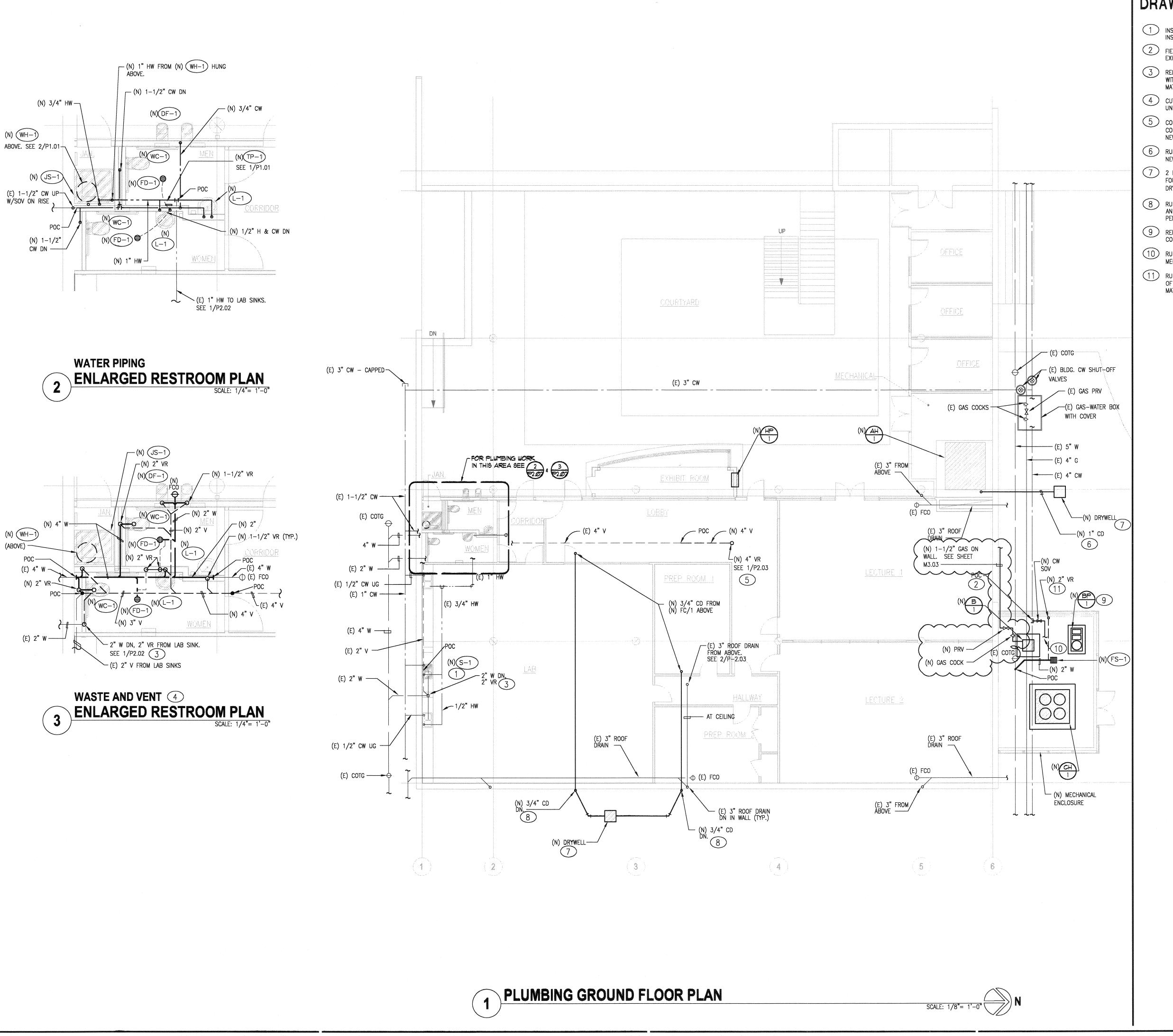
321 Golf Club Road Pleasant Hill, CA 94523

GROUND FLOOR PLUMBING DEMOLITION PLAN

BID SET

GROUND FLOOR PLUMBING DEMOLITION PLAN





DRAWING NOTES:

- 1) INSTALL NEW ACCESSIBLE SINK AT EXISTING PIPING ROUGH—INS. INSTALL NEW SUPPLY STOPS.
- FIELD VERIFY EXACT LOCATION OF POINT OF CONNECTION TO EXISTING PIPING.
- RELOCATE 2" W AND 2" VENT RISER AS REQUIRED TO CONCEAL WITHIN NEW ARCHITECTURAL WALL AND FINISH WORK. PIPE MATERIALS TO MATCH EXISTING.
- 4 CUT SLAB AND TRENCH AS REQUITED TO INSTALL NEW UNDERGROUND PIPING.
- 5 CONNECT TO EXISTING 4" VENT AND EXTEND NEW RISER TO CONCEAL WITHIN NEW FINISHED SURFACE IN PLANETARIUM ABOVE. NEW PIPING MATERIAL TO MATCH EXISTING.
- 6 RUN NEW 1" CONDENSATE FROM NEW AH/1 AND DISCHARGE TO NEW DRYWELL.
- 7 2 FOOT SQUARE BY 2 FOOT DEEP DRYWELL, 3 FEET MINIMUM FROM FOUNDATION. FILL WELL WITH MIN. 1" ROCK. COVER TOP OF DRYWELL WITH PLASTIC SHEETING WITH 6" OF EARTH COVER.
- RUN NEW 3" CONDENSATE FROM NEW FC/1 THROUGH OUTSIDE WALL AND DOWN. DISCHARGE TO NEW DRYWELL. SEAL WALL PENETRATION WATERTIGHT. PAINT PIPE TO MATCH WALL COLOR.
- 9 REFER TO MECHANICAL DRAWINGS FRO NEW BOOSTER PUMP DETAILS. COORDINATE INSTALLATION WITH OWNER.
- RUN NEW 2" COLD WATER TO MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- RUN NEW 2" VENT RISER UP FENCE AND EXTEND 12" ABOVE TOP OF FENCE. BRACKET SECURELY TO FENCE POST. PAINT PIPE TO MATCH BUILDING COLOR.

Archite

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Consultants structural:

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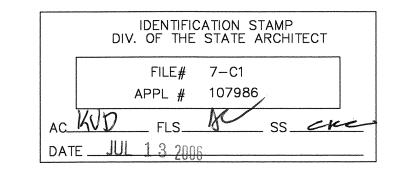
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Project

Contra Costa Community College District

Diablo Valley College

Planetarium & Classroom

Renovation

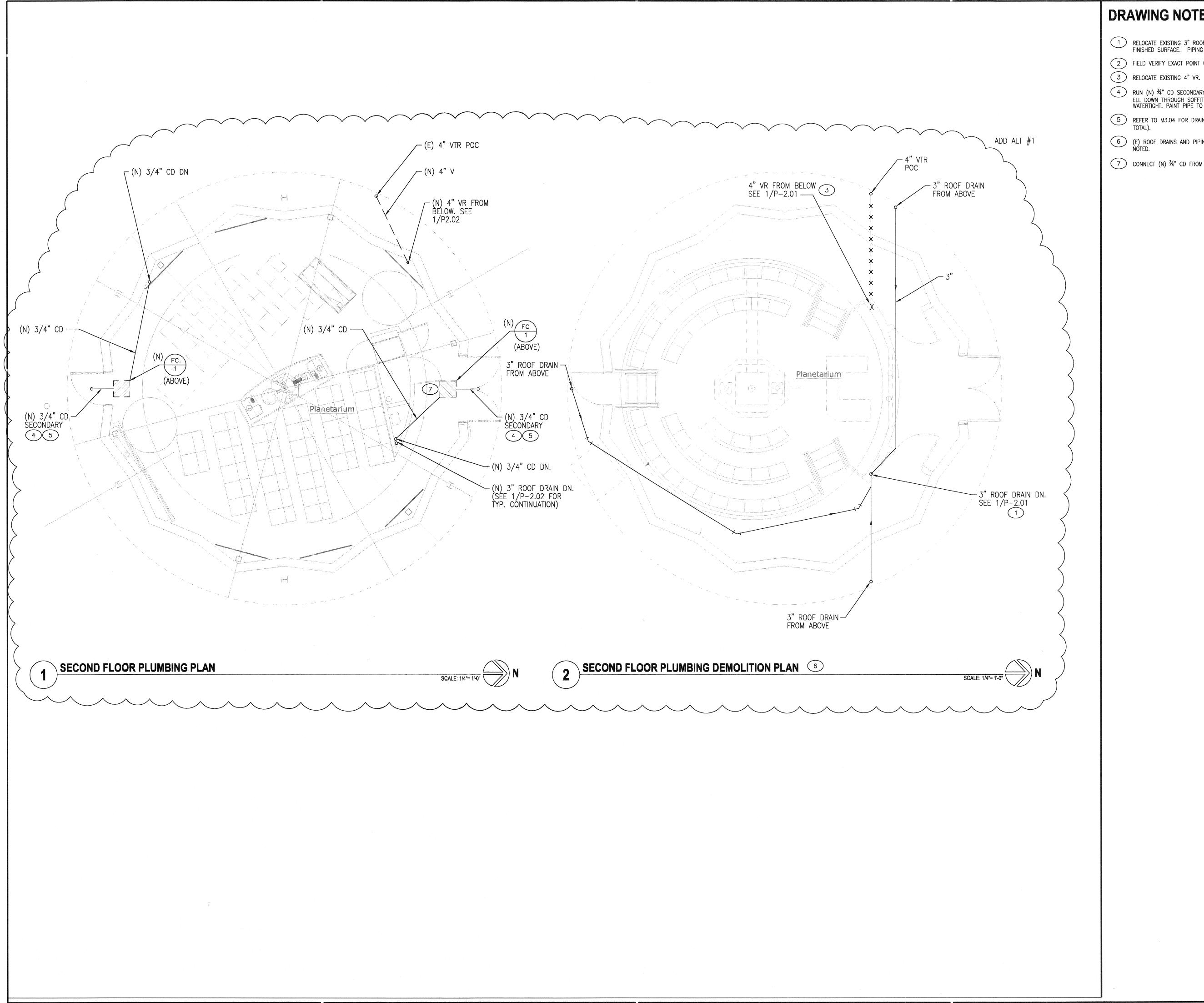
321 Golf Club Road Pleasant Hill, CA 94523

GROUND FLOOR PLUMBING PLAN

P-2.02

BID SET

06-19-06



DRAWING NOTES:

- 1 RELOCATE EXISTING 3" ROOF DRAIN PIPING TO CONCEAL WITHIN (N) FINISHED SURFACE. PIPING MATERIAL TO MATCH EXISTING.
- 2 FIELD VERIFY EXACT POINT OF CONNECTION TO ALL EXISTING PIPING.

- 4 RUN (N) ¾" CD SECONDARY FROM DRAIN PAN UNDER (N) FC/1 & ELL DOWN THROUGH SOFFIT ± 1-½". SEAL PENETRATION WATERTIGHT. PAINT PIPE TO MATCH BUILDING COLOR.
- 5 REFER TO M3.04 FOR DRAIN PIPING UNDER HEATING COILS HC/2 (4
- (E) ROOF DRAINS AND PIPING ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 7 CONNECT (N) 34" CD FROM COOLING COIL CONNECTION IN FC/1.

Gelfand Partners

ARCHITECTS



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STRUCTURAL:
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Heitz Engineering 6918 Merrywood Court
CS ID MEHAMOOD COULT

Consultants

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		APPL #	107986			
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MARK	DATE	DESCRIPTION	

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

SECOND FLOOR PLUMBING PLANS

PROJECT NAME	AIEUF	COMPLIAN	CE (Pa	rt 1 of 3)	MECH-1-C
DIABLO PLAI	NETARIUM R	EMODEL			DATE 4-12-06
PROJECT ADDRESS DIABLO VALI	LEY COLLE	GE, 321 GOLF C	LUB RD, PL	EASANT HILL	
PRINCIPAL DESIGNER-MI HEITZ ENGINE	ECHANICAL			TELEPHONE (916) 773-829	Building Permit
DOCUMENTATION AUTHO	OR			TELEPHONE	Checked by/Date
HEITZ ENGINE GENERAL INFORMATI				(916) 773-829	30 Emilitement Agency Ose
DATE OF PLANS 4-		JILDING CONDITIONED F	FLOOR AREA 63	64 SQ.FT.	CLIMATE ZONE: 12
BUILDING TYPE	\(\rightarrow\)	NONRESIDENTIAL	☐ HIGH RISE	RESIDENTIAL	HOTEL/MOTEL GUEST
PHASE OF CONSTRU	UCTION D	NEW CONSTRUCTION	ADDITION	ALTERATION	UNCONDITIONED (file affidavit)
PROOF OF ENVELO	PE COMPLIANCE	E 🛮 PREVIOU	JS ENVELOPE PER	MIT DENVEL	OPE COMPLIANCE ATTACHED
STATEMENT OF COM	PLIANCE				
This Certificate of Cor	mpliance lists the bu	uilding features and perfo	ormance specification	ons needed to comply	with Title 24, Parts 1 and 6 of t
	•	cate applies only to buildin	,		
		s that the documentation is	s accurate and com	piete.	DATE
DOCUMENTATION AUTHO	JR.	SIGNATURE			DATE
5.	ese sections of the B	tion meets the requirement usiness and Professions C	Code are printed in f	ull in the Nonresidentia	,
I hereby affirm that responsible for its	preparation; and th	at I am licensed in the St		· ·	to sign this document as the pers hanical engineer, or I am a licens
I hereby affirm that responsible for its architect. I affirm that I am	eligible under the e	xemption to Division 3 of	ate of California as	a civil engineer or med Professions Code by S	hanical engineer; or I am a licens ection 5537,2 or 6737,3 to sign th
I hereby affirm that responsible for its architect. I affirm that I am document as the p	eligible under the e person responsible to eligible under the exe	xemption to Division 3 of or its preparation; and that	ate of California as the Business and I I am a licensed con e Business and Prof	a civil engineer or med Professions Code by S tractor performing this essions Code to sign the	hanical engineer, or I am a licens ection 5537,2 or 6737,3 to sign the work. its document because it pertains to
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I hereby affirm that responsible for its architect. I affirm that I am document as the particular or type of PRINCIPAL MECHANICA Indicate location	eligible under the experson responsible for eligible under the exect work described pur AL DESIGNER-NAME	xemption to Division 3 of or its preparation; and that emption to Division 3 of the reuant to Business and Pro-	ate of California as the Business and F I am a licensed con e Business and Prof ofessions Code sect	a civil engineer or med Professions Code by S tractor performing this essions Code to sign th ions 5537, 5538, and 6 DATE	hanical engineer, of I am a licensi ection 5537,2 or 6737,3 to sign the work. ils document because it pertains to 737,1.
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I hereby affirm that responsible for its architect. I affirm that I am document as the particular or type of the principal MECHANICA Indicate location INSTRUCTIONS TO AF MECH-1-C MECH-2-C MECH-3-C	eligible under the experson responsible for eligible under the exect work described pur AL DESIGNER-NAME ON DESIGNER OF NOTE Certificate of Compart Certificate of Compart Certificate of Compart of Certificate of Certificate of Compart of Certificate of Compart of Certificate of Compart of Certificate of Certificate of Compart of Certificate of Cer	xemption to Division 3 of or its preparation; and that emption to Division 3 of the suant to Business and Pro- SIGNATURE Block for Mandatory Me NICAL COMPLIANCE & Wandliance. Part 1 of 3, 2 of 3 appliance. Part 1 of 3, 2 of 3 appliance are required for all appliance.	ate of California as the Business and F I am a licensed con Business and Prof ofessions Code sect easures VORKSHEETS (che 3, 3 of 3 are required Il submittals with me	a civil engineer or med professions Code by Stractor performing this essions Code to sign the ions 5537, 5538, and 6 DATE Ck box if worksheet is don plans for all submit	hanical engineer, or I am a license ection 5537,2 or 6737,3 to sign the work. sis document because it pertains to 737,1. LIC: # sincluded) ttals may be on plans. t may be on plans.

ИE	<u>CHAN</u>	IICAL MANDATORY MEASURES P	art 1 of	2	MECH-MN
ROJE	CT NAME	DVC PLANETARIUM		DA	4-12- <i>0</i> 6
	ESCRI	PTION	Design	ner	Enforcement
E	quipm	ent and Systems Efficiencies			
\times	111	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.			
\times	115(a)	Fan type central furnaces shall not have a pilot light.	Ministrativa in terretario con consumero		
\boxtimes	123	Piping, except that conveying fluids at temperatures between 60 and 105 degree Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.	s		
\boxtimes	124	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.			
C	controls				
·	122(e)	Each space conditioning system shall be installed with one of the following:			
	122(e)1A	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or			
	122(e)1B	An occupancy sensor to control the operating period of the system; or			
\boxtimes	122(e)1C	A 4-hour timer that can be manually operated to control the operating period of the system.		inemenceration in the state of	
\boxtimes	122(e)2	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.			
	122(g)	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.	у		
\boxtimes	122(a&b	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, th control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.	e		
X	122(c)	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.			
\boxtimes	112(b)	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.			

CERTIFICATE OF COMPLIANCE	(Part 2 of 3)	MECH-1-C
PROJECT NAME	D	ATE
DYC PLANETARIUM		4-12-06
Designer: This form is to be used by the designer and attached to the plans. Liste mechanical systems. The designer is required to check the boxes by a sequipment that requires an acceptance test. If all equipment of a certa description and the number of systems to be tested in parentheses. The Appendix of the Nonresidential ACM Manual that describes the test. A the tests (i.e. the installing contractor, design professional or an agent spart of the plans, completion of this section will allow the responsible parents.	Il acceptance tests that in type requires a test, line NJ number designate lso indicate the person is selected by the owner).	apply and list all ist the equipment is the Section in the responsible for performing Since this form will be
Building Departments:		
Systems Acceptance: Before occupancy permit is granted for a newly conditioning system serving a building or space is operated for normal space shall be certified as meeting the Acceptance Requirements for C	use, all control devices	
in addition a Certificate of Acceptance, MECH-1-A, Form shall be submolans, specifications, installation certificates, and operating and mainte 103(b) and Title 24 Part 6.		
Test Description		Test Performed By
Constant Air Volume Systems Outdoor Air Acceptance Test required on all New systems both New Construction and Retrofit. Equipment requiring acceptance testing ✓ □ MECH-3-A: Packaged HVAC Systems Acceptance Document		
Test required on all New packaged systems both New Construction an Equipment requiring acceptance testing		
✓ ☐ MECH-4-A: Air-Side Economizer Acceptance Document Test required on all new air-side economizers for both New Construction economizers that are installed at the factory and certified with the Come equipment testing but do require construction inspection.		th
	Philips PIAA having a biologic musicina alique a historica a singular participa a singular pa	
Equipment requiring acceptance testing		
Equipment requiring acceptance testing		
Equipment requiring acceptance testing		

ROJE	CT NAME	DVC PLANETARIUM		DATE	4-12-06
C)escript	lion	Desig	ıner	Enforceme
	/entilati				
\boxtimes	121(e)	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.			
	122(f)	Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.		o testas tamber 18 million (1881)	
X	122(f)	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.			
X	121(f)1	Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1989); or		ondossodnovo may indiciondo el	
	121(1)2	Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or			
	121(f)3	Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display divice; or			
	121(f)4	Another method approved by the Commission.	**************************************		
S	Service	Water Heating Systems			
X	113(b)2	If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.			
X	113(b)3B	Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F.			
X	113(b)3C	Lavatories in restrooms of public facilities shall be equipped with one of the following:			
		Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute.			
		Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute.			
		Proximity sensor actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute.			
		Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons/cycle (circulating system).			
		Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons/cycle (non-circulating system).			
		Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.75 gallons/cycle (foot switches and proximity sensor controls).			

CERTIFICATE OF COMPLIANCE (Part 3 of 3)	MECH-1-C
PROJECT NAME	DATE
DVC PLANETARIUM	10-5-05
Test Description	Test Performed By:
✓ ■ MECH-5-A: Air Distribution Acceptance Document This test required If the unit serves 5,000 ft² of space or less and 25% or more of the ducts are in nonconditioned or semiconditioned space like an attic. New systems that meet the above requirements. Retrofit systems that meet the above requirements and either extend ducts, replace ducts or replace the packaged unit. Equipment requiring acceptance testing	
✓ ☐ MECH-6-A: Demand Control Ventilation Acceptance Document All new DCV controls installed on new or existing packaged systems must be tested. Equipment requiring acceptance testing	
prompt	
✓ ☑ MECH-7-A: Supply Fan Variable Flow Control Acceptance Document All new VAV fan volume controls installed on new or existing systems must be tested. Equipment requiring acceptance testing	
All new VAV fan volume controls installed on new or existing systems must be tested.	

ENVELOPE MANDATORY MEASURES

ENVELOPE EXISTING AND NOT BEING ALTERED.

Archited

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Dasse Desi



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WHM Engineerii 1605 School Stre Moraga, CA 945

Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE# 7-C1
APPL # 107986

AC KVD FLS SS SS DATE JUL 1.3 2006

		Drawing Record/Revision
	04/14/06	DSA SUBMISSION
	06/19/06	BID SET
	//	
MARK	DATE	DESCRIPTION

Proi

Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom

Renovation

321 Golf Club Road
Pleasant Hill, CA 94523

TITLE 24 DOCUMENTATION

T-24.

BID SET 06-19-

GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE
- MOUNTING HEIGHTS SHOWN (I.E. +48") ARE FROM FINISHED FLOOR TO CENTERLINE OUTLET. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
- 3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
- 4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL MECHANICAL EQUIPMENT.
- 5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO PLACING SERVICE INTO OPERATION.
- 6. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
- 7. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL LAYOUTS OF LIGHTING FIXTURES IN
- 8. CONTRACTOR TO COORDINATE ALL NEW WORK WITH EXISTING CONDITIONS, REMOVE ALL UNUSED OR ABANDONED EXISTING CONDUITS. PROVIDE CONTINUED OPERATION OF ALL CIRCUITS NOT IN REMODELED AREA AFFECTED BY THIS WORK.
- 9. ALL ELECTRICAL CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCES AS REQUIRED BY SECTION 1630A AND TABLE 16A-0, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE, PART 2. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.
- 10. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
- 11. COORDINATE ELECTRICAL OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS (I.E. CABINETRY). AVOID ALL COUNTER SUPPORTS, AND LOCATIONS BEHIND INACCESSIBLE FIXED CABINETS.
- 12. FLUORESCENT LIGHT FIXTURES SHALL HAVE CERTIFIED LUMINAIRE/BALLASTS PER STATE OF CALIFORNIA BUILDING ENERGY STANDARDS 2-5314(a).
- 13. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.
- 14. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, MOTOR SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL
- 15. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" C/L FROM THE FINISHED
- 16. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
- 17. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
- 18. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. 110-26(f).
- 19. SCHOOL EQUIPMENT ANCHORAGE NOTE:
 - ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.
 - THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED FROM SECTION 1632A.2 CALIFORNIA BUILDING CODE (CBC) 2001. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADINGS FOR DESIGN.

THE VALUE OF AD (COMPONENT APPLICATION FACTOR) AND RD (COMPONENT RESPOND MODIFICATION FACTOR) OF SECTION 1632A.2 SHALL BE SELECTED FROM TABLE 16A-O, CBC 2001. THE VALUE OF IP (SEISMIC IMPORTANCE FACTOR) AND Ca (SEISMIC COEFFICIENT) SHALL BE SELECTED FROM TABLE 16A-K AND 16-AQ, CBC 2001, RESPECTIVELY.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

WIRE SCHEDULE					
TYPE	DESCRIPTION	SYSTEM			
Α	1#16 TWISTED PAIR	FIRE ALARM DATA LOOP			
В	2#12	FIRE ALARM SIGNAL CIRCUITS			
С	1#16 TWISTED PAIR	WIRING FROM MONITOR MOUDULE			
D	2#14	24 VDC POWER			

All ideas, design arrangements, and plans indicated or represented by this drawing are owned by, and the property of Gelfand RNP Architects incorporated and were created, evolved, and developed for use on end in connection with this project. None of such ideas, arrangements, are plans shall be used by or disclosed to any person, firm, or corporation for any purpose whotsoever without the written consent of Gelfand RNP Architects.

SYMBOL LIST

	21WROF FI21	◁	DATA OUTLET
[0]	EXISTING 4'X4' SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE	•	CEILING MOUNTED DATA OUTLET
	EXISTING 1'X4' SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE	4	TELEPHONE OUTLET
S	EXISTING 1PST LIGHT SWITCH +48" U.O.N.	•	TELEPHONE/DATA OUTLET
	EXISTING CONVENIENCE OUTLET	ANN	FIRE ALARM REMOTE ANNUNCIATOR
(e)	EXISTING FLUSH FLOOR OUTLET	F	FIRE ALARM PULL STATION
HÚÚ	EXISTING JUNCTION BOX	®	FIRE ALARM SMOKE DETECTOR
[]	EXISTING ELECTRICAL PANELBOARD	^	200° FIXED HEAT DETECTOR
HS)	EXISTING WALL MOUNTED SPEAKER	_	135° FIXED HEAT DETECTOR
Ó	EXISTING MOTOR CONNECTION		DUCT SMOKE DETECTOR
[S]	EXISTING SPECIAL SYSTEMS JUNCTION BOX	CR FSD.	FIRE SMOKE DAMPER
⊗	EXISTING EXIT SIGN	M	FIRE ALARM MONITOR MODULE
◁	EXISTING DATA OUTLET		FIRE ALARM CONTROL RELAY
4	EXISTING TELEPHONE OUTLET	M	FIRE ALARM MINI HORN/STROBE, CANDELA AS NOTED
 01	FLUORESCENT STRIPLIGHT FIXTURE - SEE FIXTURE SCHEDULE	☐wp	FIRE ALARM HORN WITH WEATHERPROOF BACK BOX
	2' X 4' RECESSED FLUORESCENT LIGHT FIXTURE - SEE FIXTURE SCHEDULE	S	FIRE ALARM STROBE, CANDELA AS NOTED
	1' X 8' PENDANT FLUORESCENT LIGHT - SEE FIXTURE SCHEDULE	— ≱ EOL	END-OF-LINE RESISTOR
	FIXTURE WITH EMERGENCY BATTERY PACK		EXISTING CIRCUITRY
	1' X 4' WALL MOUNTED FLUORESCENT LIGHT - SEE FIXTURE SCHEDULE		CIRCUITRY RUN CONCEALED IN WALL OR CEILING
$\nabla\nabla\nabla$	TRACK LIGHT FIXTURE - SEE FIXTURE SCHEDULE	encolaterate stream especialisticate	CIRCUITRY RUN UNDERGROUND OR IN FLOOR SLAB
O	FLUORESCENT RECESSED DOWNLIGHT - SEE FIXTURE SCHEDULE	econecticité espacialmessans (Companier	HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT
Ю	WALL MOUNTED FLUORESCENT LIGHT FIXTURE - SEE FIXTURE SCHEDULE		CONDUIT UP
Ю	WALL MOUNTED EXIT LIGHT - SEE FIXTURE SCHEDULE		CONDUIT DOWN
8	CEILING MOUNTED EXIT LIGHT - SEE FIXTURE SCHEDULE		ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C - 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF #12 WRES: (
	2—HEAD EMERGENCY LIGHTING		OTHERWISE NOTED. FOR A GREATER NUMBER OF #12 WIRES: $(-HH-=1/2\text{"C}-3\text{#}12, 1\text{#}12\text{G})$ ETC. FOR WIRE SIZES OTHER THAN #12: $(-HH-=1/2\text{"C}-3\text{#}12, 1\text{#}12\text{G})$, (GROUND SIZED PER CEC, IN CODE SIZE CONDUIT) ETC.
Sa	SPST SWITCH, +48" U.O.N. LETTER DENOTES FIXTURE CONTROLLED, IF APPLICABLE	С	CONDUIT
S 3	3-WAY LIGHT SWITCH, +48" U.O.N.	(E)	EXISTING
SD	DIMMER SWITCH AT +48"	` '	EXISTING TO REMAIN FIRE ALARM CONTROL PANEL
М	SINGLE-POLE MOTION SENSOR AT +48", WATTSTOPPER #WA-200	G, GND	GROUND
M ²	DUAL-LEVEL MOTION SENSOR AT +48, WATTSTOPPER #WA-300		INTERMEDIATE DISTRIBUTION FRAME MAIN DISTRIBUTION FRAME
TC	TIME CLOCK		3/4" EMPTY CONDUIT WITH PULL CORD
	DUPLEX RECEPTACLE, 20A, 125V, 3W, GROUNDABLE, +18" UNLESS OTHERWISE NOTED	• •	NEW
中	FOURPLEX RECEPTACLE, 20A, 125V, 3W, GROUNDABLE, +18" UNLESS OTHERWISE NOTED		ISOLATED GROUND REMOTE POWER SUPPLY
E GFI	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE, 20A, 125V, 3W, +18" UNLESS OTHERWISE NOTED		TEMPERATURE CONTROL PANEL
Ø	CEILING OR FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V, 3W, GROUNDABLE		SEPARATE
+00	JUNCTION BOX, WALL OR ABOVE CEILING MOUNTED, SIZED PER CODE	U.O.N. WP	UNLESS OTHERWISE NOTED WEATHERPROOF
	ELECTRICAL PANELBOARD		FIXTURE TAG — LETTER DENOTES TYPE, NUMBERS
Ø r	FUSED DISCONNECT SWITCH, SIZED PER MFGR REQUIREMENTS. WEATHERPROOF TYPE FOR OUTDOOR USE	/AC\	INDICATE LAMP QUANTITY AND WATTAGE
Ó	MOTOR CONNECTION		MECHANICAL TAG — LETTER DENOTES TYPE, NUMBER DENOTES EQUIPMENT NUMBER
		$\langle 1 \rangle$	SHEET NOTE

LIGHTING FIXTURE SCHEDULE					
TYPE	MANUFACTURER AND CATALOG NUMBER	LAMP QUANTITY AND TYPE	DESCRIPTION	WEIGHT	MOUNTING DETAIL
A	PEERLESS LIGHTING #10CRM8-332-32FT-8FT-120- SCT-LP735-C041	6-32W T8	8' PENDANT INDIRECT FLUORESCENT OF EXTRUDED ALUMINUM WITH OPEN ALUMINUM BAFFLES, IN ROWS OF 4 WITH ACCESSORIES AS REQUIRED, MOUNTED ON CONCRETE CEILING AT 24" BELOW CEILING — WHITE FINISH	40LBS	2/E0.1
A1	PEERLESS LIGHTING #10CRM8-332-32FT-8FT-120-EL- SCT-LP735-C041	6-32W T8	SAME AS 'A' BUT WITH ONE EMERGENCY BATTERY PACK IN EACH 8' SECTION	40LBS	2/E0.1
В	COLUMBIA #4PS24-232G-FS-A12.125-EB8	2-32W T8	RECESSED 2'X4' FLUORESCENT WITH PATTERN #12 ACRYLIC LENS .125" THICK	40LBS	4/E0.1
С	PEERLESS LIGHTING #CRW8-232-*-4'-120-GEB-SCT * IN 8' & 16' ROWS AS SHOWN ON PLANS	2-32W T8	4' WALL INDIRECT FLUORESCENT OF EXTRUDED ALUMINUM WITH OPEN ALUMINUM BAFFLES WITH WHITE FINISH	20LBS	
D	COLUMBIA #PM14-232-FSA12.125-EB8-120	2 - 32W T8	SURFACE 1'X4' FLUORESCENT WITH PATTERN #12 ACRYLIC LENS .125" THICK	20LBS	1/E0.2
E	PRESCOLITE #TBX-T095(WBF) -120	1 - 26W CF	6"D RECESSED FLUORESCENT DOWNLIGHT WITH CLEAR REFLECTOR AND WHITE BAFFLE	10LBS	5/E0.1
E 1	PRESCOLITE #TBX-T095(WBF) -120-DIM	1 26W CF	SAME AS 'E' BUT WITH DIMMING BALLAST (DOWN TO 1% TYPE)	10LBS	5/E0.1
F	LUMINAIRE #LVP58-1PL26-120V	1 - 26W CF	WALL MOUNT FLUORESCENT FIXTURE, 8 1/2" X 5 5/8" WITH POLYCARBONATE PRISMATIC LENS — DAMP LABEL	10LBS	
G	HALO #LV118-P #L3751P LAMPHOLDER	50W LV PAR36	TRACK LIGHTING WITH LOW VOLTAGE LAMPHOLDERS 6 1/4"D X 6 7/8" LONG — FINISH COLOR WHITE — WITH ACCESSORIES AS REQ'D	5LBS	
Н	DAY-BRITE #VSR326CD12	2 - 26W CF	CEILING 15"D ROUND SURFACE FLUORESCENT — WET LABEL WITH POLYCARBONATE PRISMATIC LENS — DAMP LABEL	5LBS	
J	COLUMBIA #CH4-132-120-DIM	1 - 32W T8	4' NARROW CHANNEL FLUORESCENT STRIPLIGHT WITH ELECTRONIC DIMMING BALLAST TO 1 PERCENT	10LBS	1/E0.2
\otimes	EVENLITE #SL-20-1-G-W		SELF LUMINOUS ALUMINUM EXIT SIGN — GREEN — WITH WHITE HOUSING & GREEN STENCIL, 20 YEAR LIFE	5LBS	
	EMERGILITE #DLM-2,120V		11-3/4" X 2-1/4"D CONTEMPORARY EMERGENCY LIGHT WITH WHITE HOUSING AND ACRYLIC LENS	15LBS	

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DSA Application

	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT			
	FILE# 7-C1 APPL # 107986			
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		Drawing Record/Revision
	04/14/06	DSA SUBMISSION
	06/19/06	BID SET
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MARK	DATE	DESCRIPTION

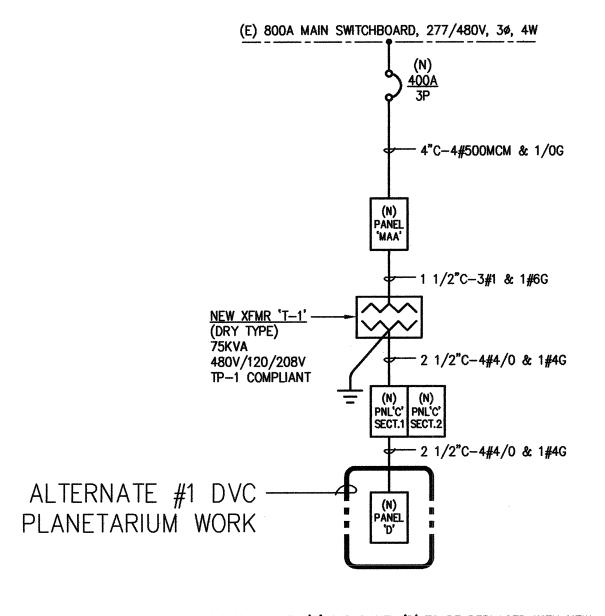
Contra Costa Community College District Diablo Valley College Planetarium & Classroom

> Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

ELECTRICAL SYMBOL LIST, FIXTURE SCHEDULE **AND GENERAL NOTES**

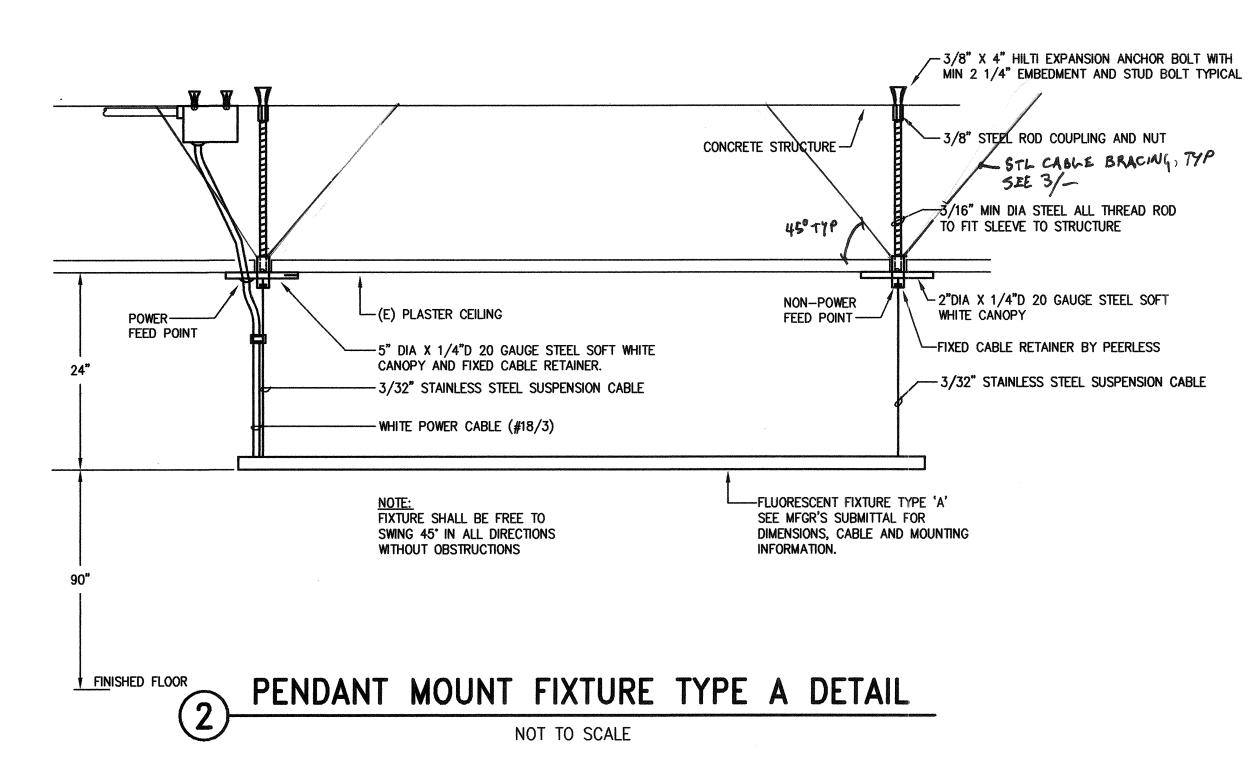
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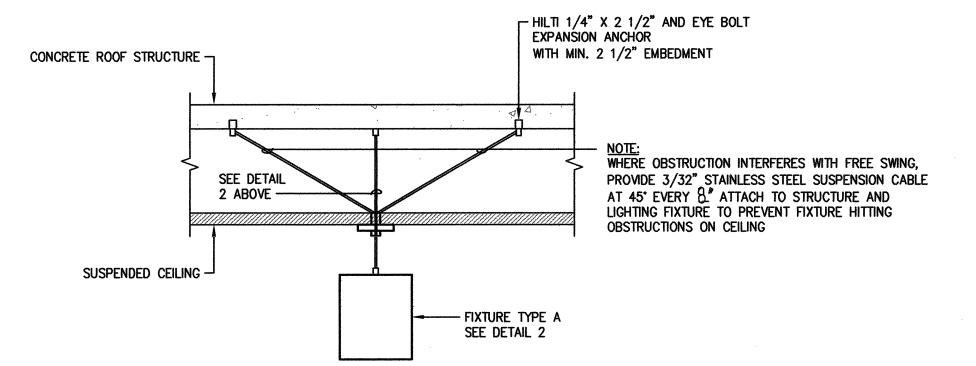


NOTE: EXISTING PANEL 'C' AND PANEL 'D' TO BE REPLACED WITH NEW.

ELECTRICAL ONE—LINE DIAGRAM

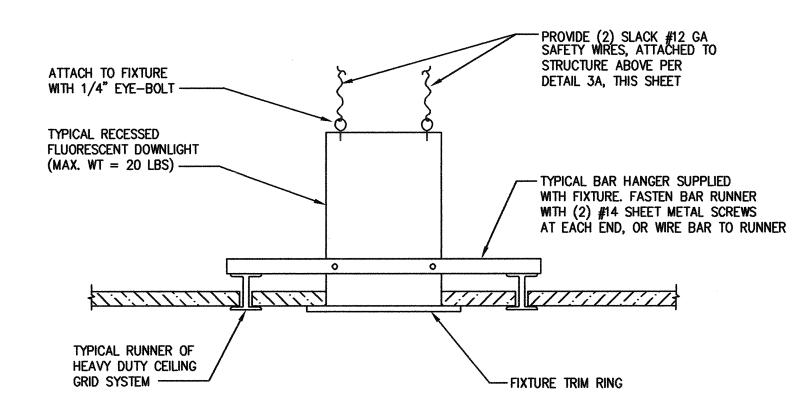
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3 SEISMIC BRACING DETAIL

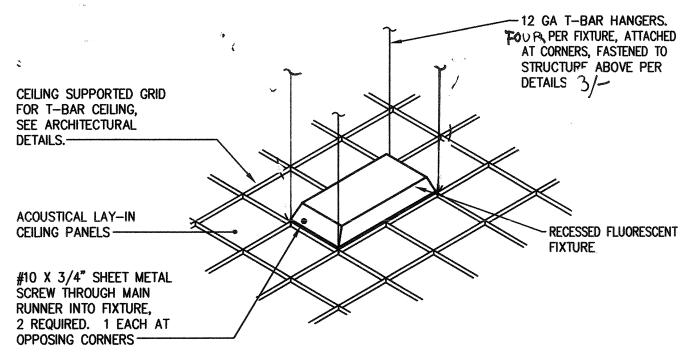
NOT TO SCALE



RECESSED FLUORESCENT DOWNLIGHT

MOUNTING DETAIL AT SUSPENDED T-BAR CEILING

NOT TO SCALE

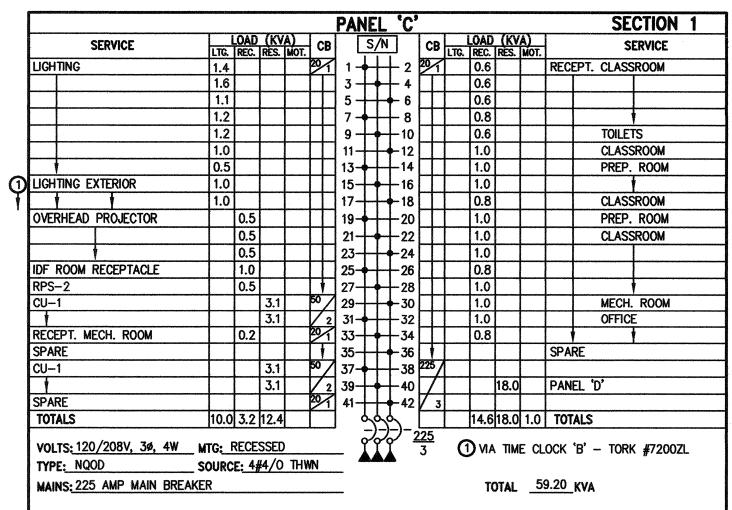


RECESSED FLUORESCENT FIXTURE

MOUNTING DETAIL FOR T-BAR CEILING

NOT TO SCALE

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IAINS: 225 AMP MAIN BREAK			-/-									9	1ATA	15	3.04 KVA	

					P	<u>an</u>	EL		MA	A'					
SERVICE	LTG	LOAD	(KV/	A) (CB		S	S/N		СВ	LTG	LOAD	(KV	A) MOT.	SERVICE
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101720			11.01	22.3		l)-)	-)-,	400	L	<u> </u>	<i>p</i> 0.0	171.0	TOTALS
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TYPE: NQOD	SOURC	E: 4	\$500K	(CM &	1	<u>/</u> 0G									
MAINS: 400 AMP MAIN BREAK												T	OTAL	140).40_KVA

Archi

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1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

DSA Application

		Drawing Record/Revisions
	04/14/06	DSA SUBMISSION
	06/19/06	BID SET
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MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom

321 Golf Club Road Pleasant Hill, CA 94523

easant Hill, CA 9452

Renovation

Sheet

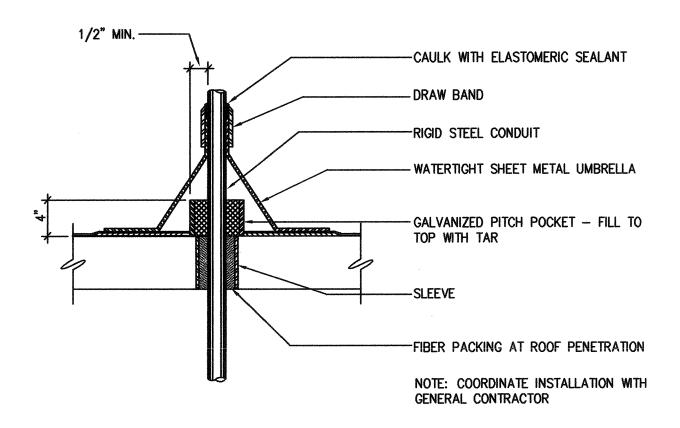
ELECTRICAL DETAILS, ONE LINE DIAGRAM AND PANEL SCHEDULES

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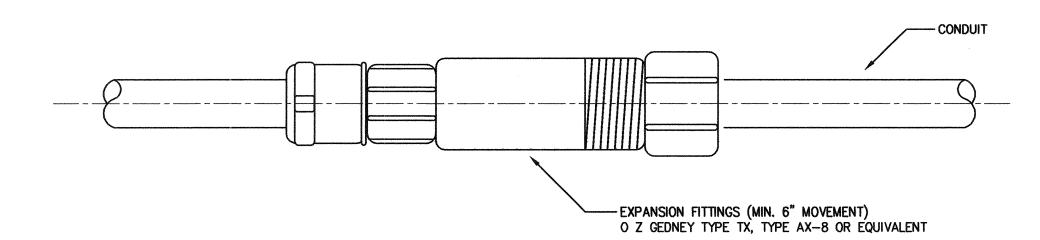
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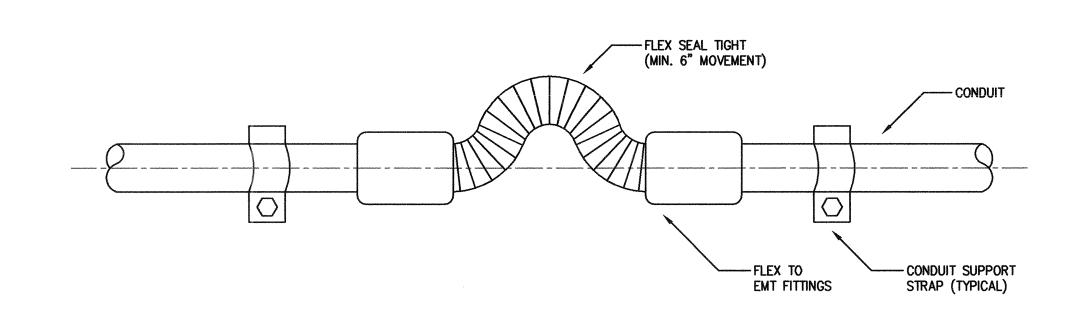








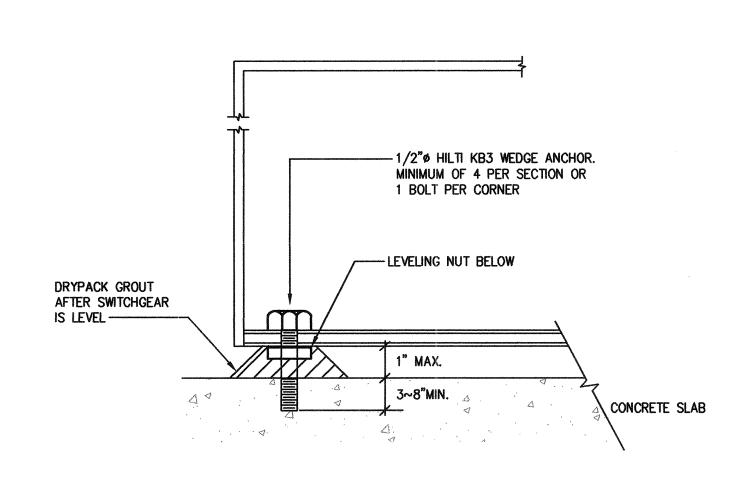
FITTINGS FOR CONDUITS ON WALL



FLEX JOINT FOR EXPOSED CONDUITS

4 CONDUIT EXPANSION FITTING DETAILS

NOT TO SCALE



SWITCHGEAR/TRANSFORMER BOLT DOWN DETAIL

NOT TO SCALE

277/480V

STEP_DOWN
TRANSFORMER

-EXISTING CONCRETE FLOOR
HOUSEKEEPING PAD

PANEL

PANELBOARD TRANSFORMER

MOUNTING DETAIL

NOT TO SCALE

Archite

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DSA Application

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APPL # 107986

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Project

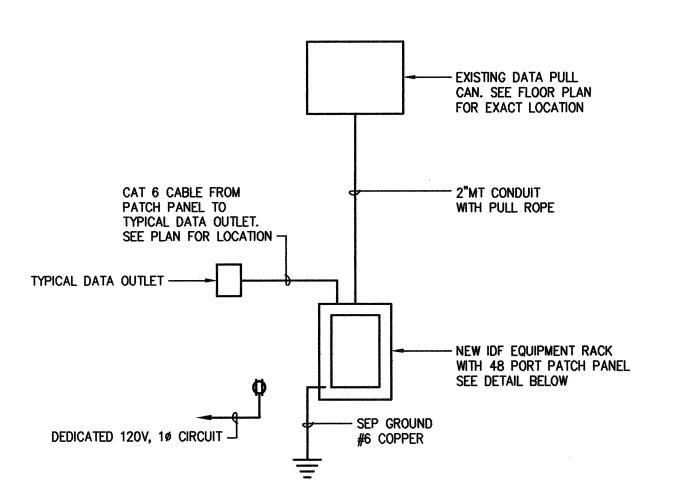
Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom
Renovation

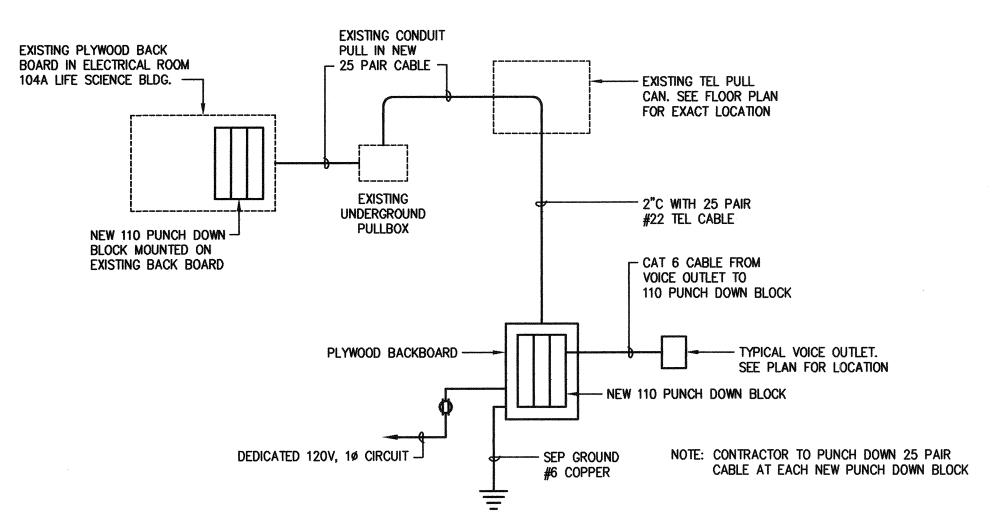
321 Golf Club Road Pleasant Hill, CA 94523

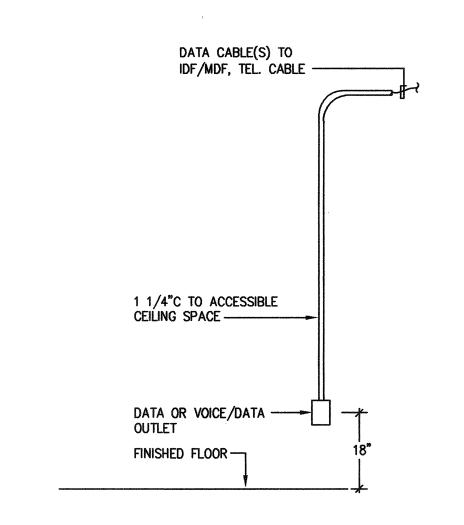
ELECTRICAL DETAILS

BID SET

E0.2





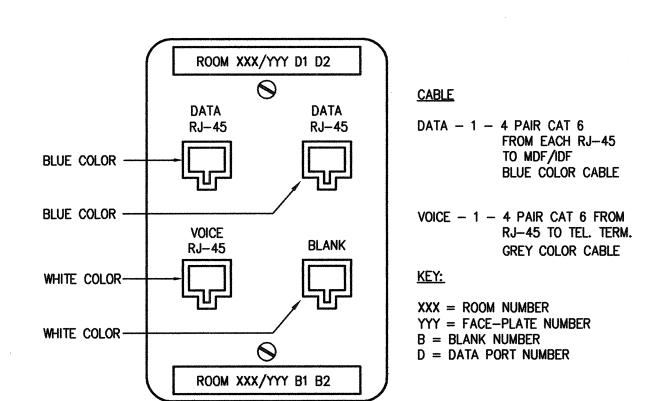


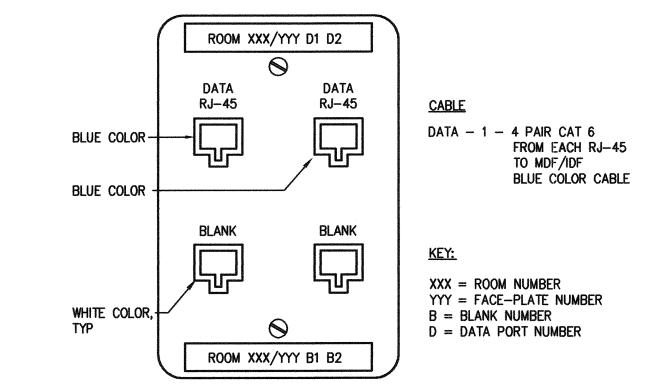
DATA SYSTEM RISER DIAGRAM

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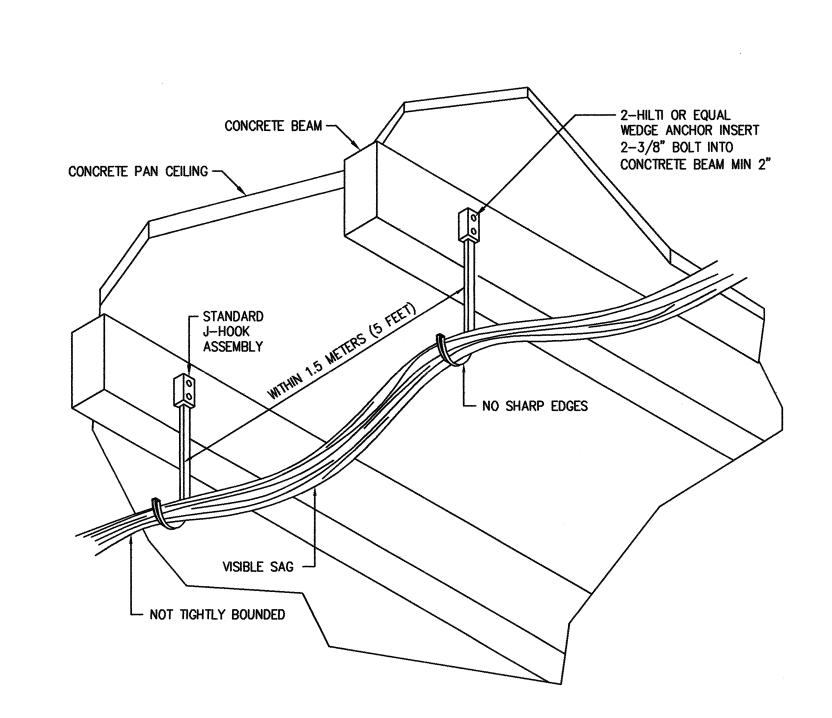
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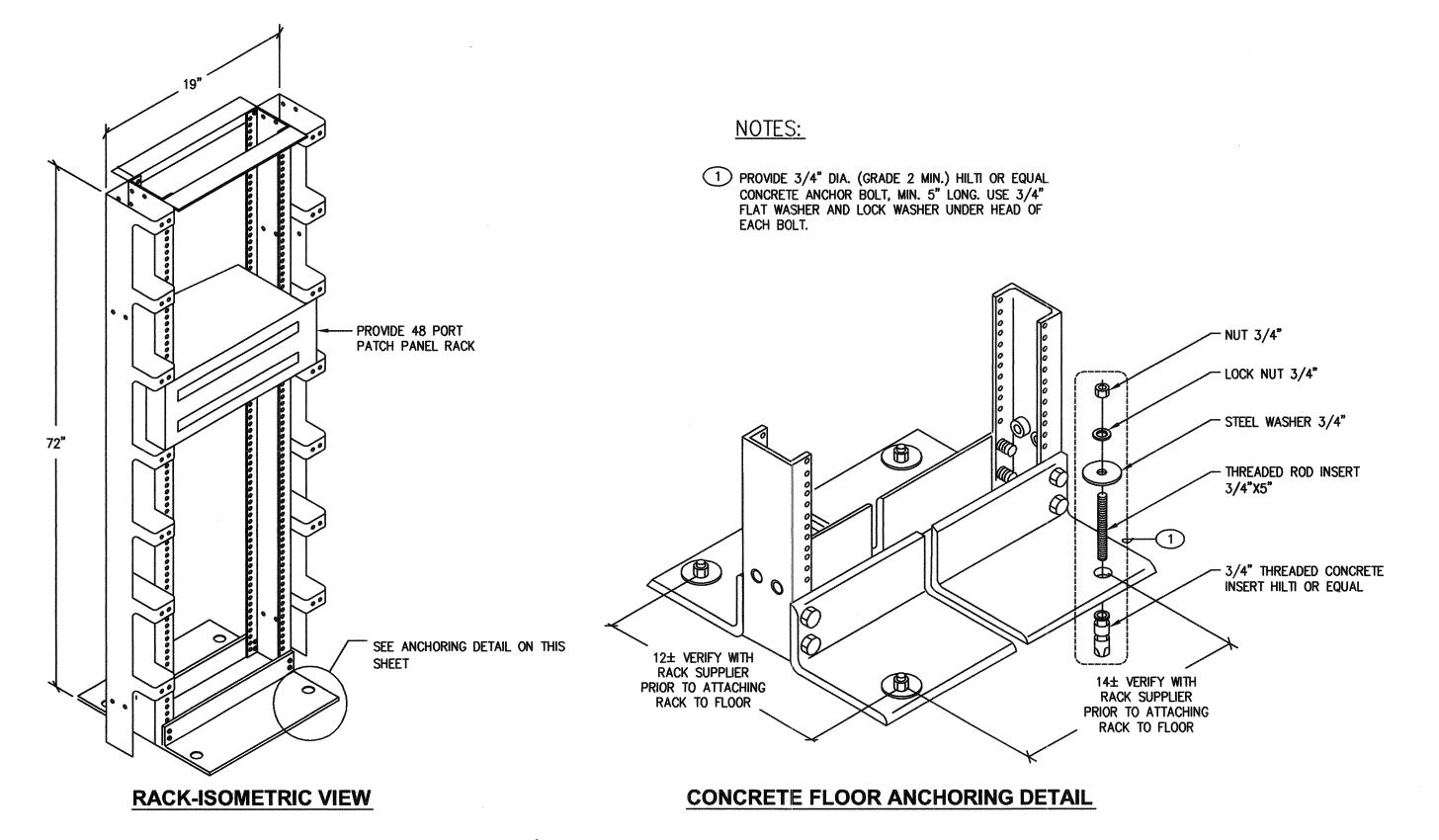
TYPICAL VOICE/DATA OUTLET INSTALLATION DETAIL





TYPICAL VOICE/DATA OUTLET TO SOME





CABLE PATHWAYS

RACK/ANCHORING DETAIL

Gelfand Partners ARCHITECTS

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		Drawing Record/Revision
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	//	
MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL DETAILS AND DATA SYSTEM **RISER DIAGRAM**

TOTAL UNCONDITIONED SPACES ALLOWED WATTS

2005 Nonresidential Compliance Forms

CERTIFICATE OF COMPLIANCE

321 GOLF CLUB ROAD, PLEASANT HILL, CA 94523

JOSE WE

DIABLO VALLEY COLLEGE PLANETARIUM & CLASSRM. UPGRADE

LTG-1-C

2/10/06

Building Permit

(Part 1 of 4)

(925) 376-2902

CERTIFICATE OF COMPLIANCE

PROJECT NAME DIABLO VALLEY COLLEGE PLANETARIUM & CLASSRM. UPGRADE

INSTALLED INTERIOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

ALLOWED LIGHTING POWER FOR UNCONDITIONED SPACES (From LTGS-C) DeerFormance method Jensel	LLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES										
ALCORED METHOD (fires LTG4-C) ALLONED JERTINO FORMS ALCORED JERTINO FORMS ALCORED JERTINO FORMS ALCORED JERTINO FORMS ALCORED JERTINO FORMS AND ACCEPTANCE CONTINUE CONT	✓ COMPLETE BUILDING METHOD (from LTG-5-C)										
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TREE SPACE TOTAL		,				ALLOWED					
TERRONTE COMPLIANCE TO GOVERNOE METHOD TO GOV		L10-5-C)		ALLOW	VED LIGHTING POW	Secretarios de la company de l					
April 2005 **SACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE** **Uniformatic Daylighting Controls Acceptance Document** **LTG-2-A** **Formatic Daylighting Controls Acceptance Document** **LTG-2-A** **Formatic Daylighting Controls Acceptance Document** **LTG-2-A** **Sale Acceptance Test (indicate lighting control systems Names/Dasjgrasions bye the applicable Control System and Controls of Control Co	ALTERNATE COMPLIANCE										
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responses are positive (Y - yes)	Select Acceptance Tes 1 Occupancy Sensor 2 Manual Daylight Co 3 Automatic Time Sw Equipment Testing Recect and verify those item cuapncy Sesnor - Step 1: Lights controlled by occupied controlled space on Signal sensitivity is adeap 2: Simulate an occupied status indicator or annual Lights controlled by occupied condition OR Sensor indicates space ap 3: System returned to mual Daylighting Controls At least 50% of lighting The amount of light deliap 2: System returned to tomatic Transfer Switch of All lights can be turned Verify the switch only of switch is located. Exp. 2: Simulate unoccupied All non-excempt lighting Manual override switch space where the overrides cheduled shut off occupied 3: System returned to system the overrides scheduled shut off occupied 3: System returned to system returned to system system returned to system system returned to system system returned to system returned to system	ex COLLEGE PLAI ext (Indicate lighting portrol portrol	control systems Names/ control systems name of section 119(d). control sired control. control systems on when Immedial mutually exclusive with Sights turn on manually. citions control control control control control systems on the celling-height partitioned in 131(d)1. control systems on the selected ceiling here, to turn on or remain on unditions control contro	Designations bye the app 30 minutes from an area adjacent to ately upon an tep 2.c.) from other lights. itch. ad area in which the	Applicable C T Y Y Y Y Y Y Y Y	N N N N N N N N N N					

responses in any applicable Equipment Testing Requirements section. Provide explanation below. Use and

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attached additional pages if necessary.

(Part 2 of 4)

LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)

LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C) UNCONDITIONED SPACES ADJUSTED INSTALLED LIGHTING POWER

CONDITIONED SPACES ADJUSTED INSTALLED LIGHTING POWER

INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)

PORTABLE LIGHTING (From LTG-3-C)

LTG-1-C

2005 Nonresidential Acceptance Forms

^{DATE} 2/10/06

CERTIFICATE OF COMPLIANCE	(Part 4 of 4)	LTG-1-0
ROJECT NAME DIABLO VALLEY COLLEGE PLANETARIUM & CLASSRI	M. UPGRADE	OATE 2/10/06
Designer This form is to be used by the designer and attached to the plans. Listed below a required to check the boxes by all acceptance tests that apply and list all equipme type requires a test, list the equipment description and the number of systems to be in the Appendix of the Nonresidential ACM Manual that describes the test. Also in installing contractor, design professional or an agent selected by the owner). Since allow the responsible party to budget for the scope of work appropriately.	ent that require an acceptance test. It is be tested in parentheses. The NJ num ndicate the person responsible for perf	all equipment of a certain ber designates the Section orming the tests (i.e. the
Building Departments: Systems Acceptance. Before an occupancy permit is granted for a newly system serving a building or space is operated for normal use, all control d meeting the Acceptance Requirements for Code Compliance. In addition a submitted to the building department that: A. Certifies plans, specifications, installation certificates, and operating § 10-103(b) and Title 24 Part 6.	levices serving the building or space a Certificate of Acceptance, MECH-	e shall be certified as 1-A, Forms shall be
Test Description		Test Performed By:
✓ LTG-2-A: Lighting Control Acceptance Document		
2005 Nonresidential Compliance Forms		April 20

CATE OF COMPLIANCE (Part 4 of 4)	LTG-1-C	INTE	RIOR LIGHTING SCI	HEDL	ILE		(Part	1 of 2)	LTG.	-2-C
O VALLEY COLLEGE PLANETARIUM & CLASSRM. UPGRADE	TE 2/10/06	PROJECT NAM	E DIABLO VALLEY COLLEGE PLAN	IETARIUM	& CLASS	SRM. UP	GRADE		DATE	2/10/06	
		INSTALLED	LIGHTING POWER FOR CONDITIONE	D SPACES							
			Luminaire		Lamps/	Ballasts			Installe	d Watts	***************************************
be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting sy ok the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all	equipment of a certain	А	В	С	D	E	F	G	Н	1	J
test, list the equipment description and the number of systems to be tested in parentheses. The NJ number of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performed ctor, design professional or an agent selected by the owner). Since this form will be part of the plans, commissible party to budget for the scope of work appropriately.	ming the tests (i.e. the	Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts Per Lamp	Number of Ballast per Luminaire	Watts Per Luminaire	If CEC Default	Number of Luminaire	watts (HxI)
epartments:		A & A1	8' IND./DIR. PENDANT FLUOR.	T8	6	32	2	180	n Mary est consequity many treatment of	28	5,04
eptance. Before an occupancy permit is granted for a newly constructed building or space, or a n		В	2X4 RECESSED FLUOR.	T8	2	32	1	58		2	11
a building or space is operated for normal use, all control devices serving the building or space septance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-		С	WALL INDIRECT FLUOR.	T8	2	32	1	58		22	1,2
e building department that:		D	1X4 SURFACE FLUOR	T8	2	32	1	58		4	2
s plans, specifications, installation certificates, and operating and maintenance information meet O3(b) and Title 24 Part 6.	the requirements of	E & E1	6" REC. FLUOR. DNLIT.	CF	1	26	1	28		15	4
	Test Performed By:	F	SURFACE WALL FLUOR.	CF	1	26	1	28		1	2
	rest Performed by.	G	LOW VOLTAGE TRACK	LV	1	50		5W/LIN.'		24 LIN.'	1,08
Lighting Control Acceptance Document		Н	FLUORESCENT SURFACE	CF	2	26	1	58		6	3
ancy Sensor Acceptance Daylight Controls Acceptance		J	STRIPLIGHT	T8	1	32	1	30		12	3
atic Time Switch Control Acceptance						<u> </u>					

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									PAGE TO	TAL	8,9
							BUILDIN	G TOTAL (su	ım of all paç	ges) +	8,9
						1	PORTABLE	LIGHTING (From LTG-3	3-C) +	
								OL CREDIT (Enterente de la constante de l	
										· - / L	

2005 Nonresidential Compliance Forms

ADJUSTED ACTUAL WATTS

8,900

April 2005

2005 ACCEPTANCE REQUIRE	MENTS FOR CODE	COMPLIANCE	
Lighting Control Acceptance Document		LTG-2-A	
		Form <u>2</u> of <u>2</u>	
PROJECT NAME DIABLO VALLEY COLLEGE PLANETARIUI	M & CLASSRM. UPGRADE	DATE 2/10/06	
PROJECT ADDRESS 321 GOLF CLUB ROAD, PLEASAN	VT HILL, CA 94523		Lighting Mandatory Measures
TESTING AUTHORITY	TELEPHONE		 Building Lighting Shut—off
LIGHTING CONTROL SYSTEM NAME / DESIGNATION	TELEPHONE	Checked by/Date Enforcement Agency Use	
Intent: Lights are turned off when not no	ooded per 110(d) 8 121(d)		☑ The building lighting shut-off system consists of occupancy sensors.
Intent: Lights are turned off when not no	eded per 119(d) & 131(d).		 Override for Building Lighting Shut-off
Instruction Inspection Instrumentation to perform test includes, but not line a. Light meter	mited to:		The automatic building shut-off system is provided with manual override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
b. Hand-held amperage and voltage meter c. Power meter			Automatic Control Devices Certified
Occupancy Sensor Construction Inspection	zo folog pignolo		All automatic control devices specified are certified; all alternate equipment shall be certified and installed as directed by the manufacturer.
 □ Occupancy sensor has been located to minimi □ Occupancy sensors do not encounter any obs 	tructions that could adversely effect de	esired performance	Fluorescent Ballast and Luminaires Certified
Ultrasonic occupancy sensors do not emit aud 3. Manual Daylighting Controls Construction Inspecting If dimming ballast are specified for light fixture	on .	or most all the Standards	All fluorescent fixtures subject to certification and specified for the projects are certified.
requirements, including "reduced flicker opera			Individual Room / Area Controls
 4. Automatic Time Switch Controls Construction Insp a. Automatic time switch control is programmed for the Weekdays 			∑ Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor—to—ceiling walls.
☐ Weekends☐ Holidays			Uniform Reduction for Individual Rooms
 b. Documents for the owner automatic time switch Weekday settings Weekend settings Holiday settings 	th programming (check all):		All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with Multi-level switching for uniform reduction of lighting within the room.
☐ Set-up settings ☐ Preference program setting			Daylit Area Control
☐ Verify the correct time and date is properly set☐ Verify the battery is installed and energized☐ Override time limit is no more than 2 hours	in the time switch		All rooms that are greater than 250 square feet and contain windows and skylights, that allow for the effective use of daylight in the area shall have 50% of the lighting power in each daylit area controlled by a separate switch.
Certification Statement: I certify that all state PASS/FAIL Evaluation		ncluding the	

April 2005

7-12-06



San Francisco, CA 94102 Tel. 415. 346 . 4040 Fax 415. 346.4103 www. gelfand-partners.com



Consultants

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Moraga, CA 94556

33 New Montgomery

San Francisco, CA 94105 (415)243-8400 (Tel.)/(415)243-9165 (Fax) **MECHANICAL/ PLUMBING:**

6918 Merrywood Court Granite Bay, CA 95746 (916)773-8920 (Tel.)/(916)789-1005 (Fax) **ELECTRICAL:** WHM Engineering 1605 School Street

DSA Application

(925)376-2902(Tel.)/(925)376-2904 (Fax)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE# 7-C1 APPL # 107986

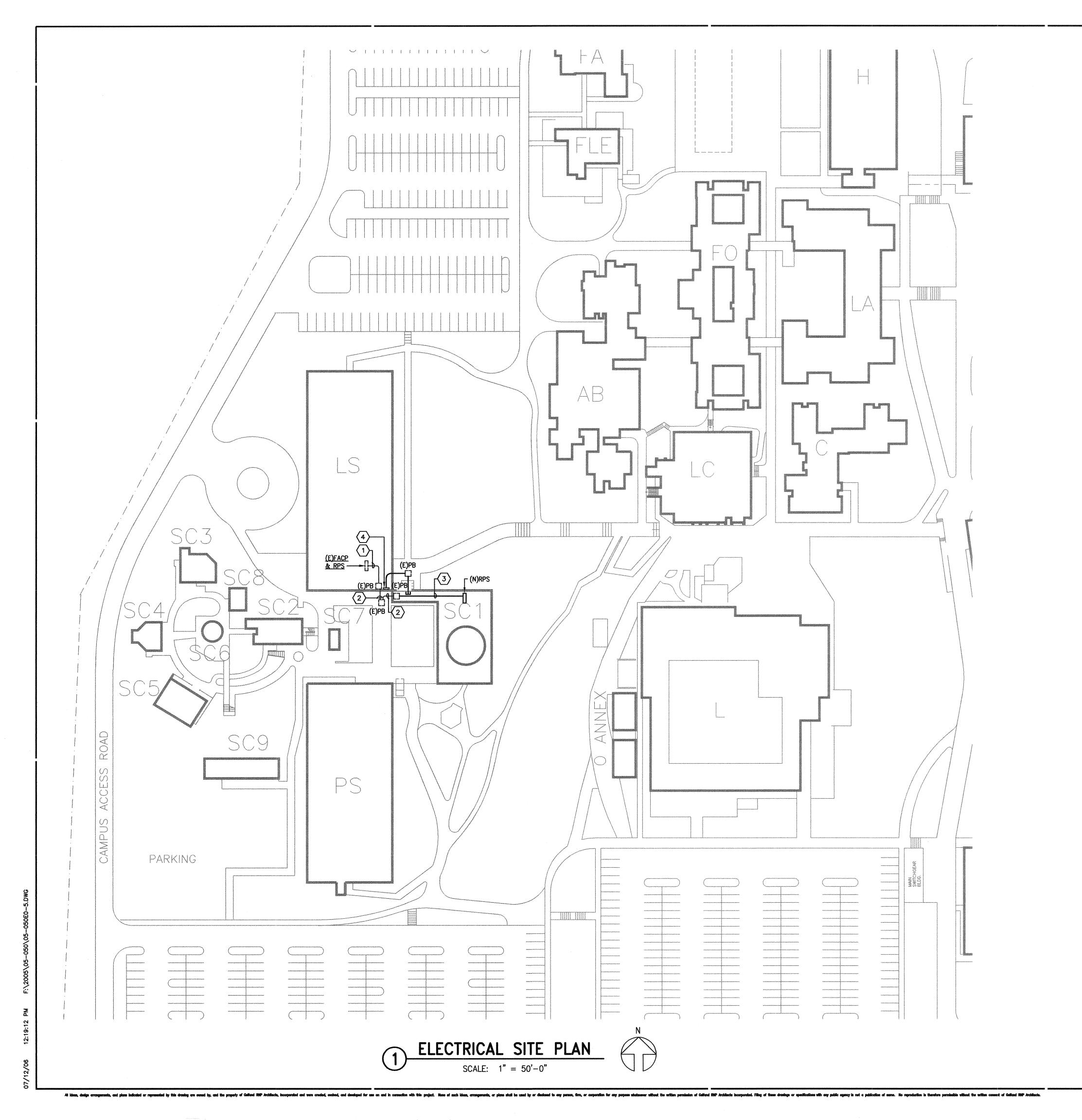
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	06/19/06	BID SET
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MARK	DATE	DESCRIPTION

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

TITLE 24 LIGHTING COMPLIANCE, **MANDATORY MEASURES**



SHEET NOTES

- 1 PULL (3) NEW TYPE 'A', (2) NEW TYPE 'B' AND (1) NEW TYPE 'D' CABLE IN EXISTING 1" CONDUIT.
- 2 PULL (3) NEW TYPE 'A', (2) NEW TYPE 'B' AND (1) NEW TYPE 'D' CABLE IN EXISTING 4" CONDUIT.
- PULL (3) NEW TYPE 'A', (2) NEW TYPE 'B' AND (1) NEW TYPE 'D' CABLE IN NEW 1" CONDUIT. CONDUIT TO BE CONNECTED TO EXISTING PULLCAN IN EXISTING ELECTRICAL ROOM.
- EXISTING PLYWOOD BACKBOARD IN ROOM 104A. PROVIDE NEW 110 PUNCH DOWN BLOCK ON BACKBOARD FOR TERMINATION OF NEW PHONE CABLE. SEE RISER DIAGRAM SHEET E0.3.

Archit

Gelfand Partners

ARCHITECTS



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ELECTRICAL:
WHM Engineering
1605 School Street
Moraga, CA 94556
(925)376-2902(Tel.)/(925)376-2904 (Fax)

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Project

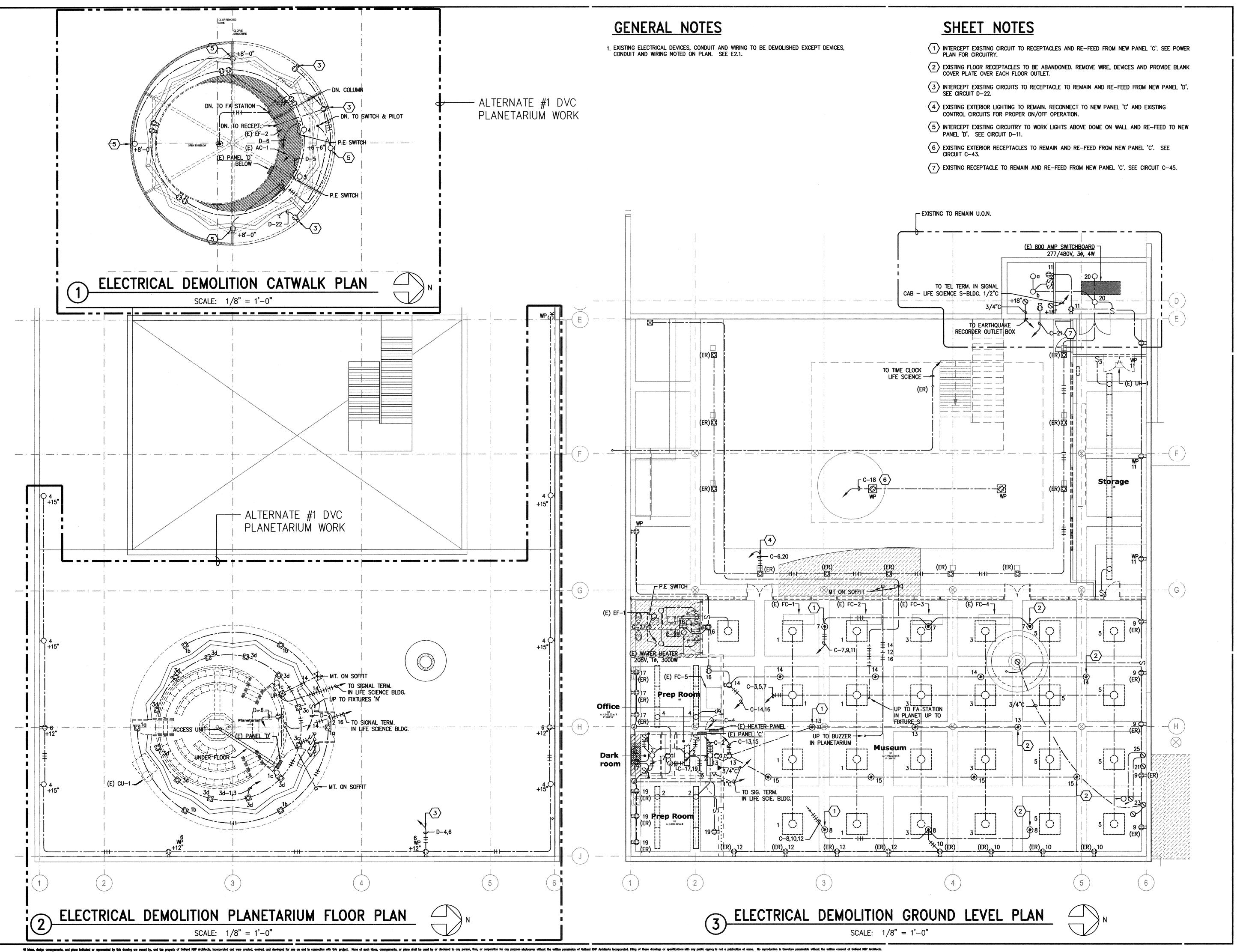
Contra Costa Community College District
Diablo Valley College
Planetarium & Classroom
Renovation

321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL SITE PLAN

E0.5

BID SET 06-19-



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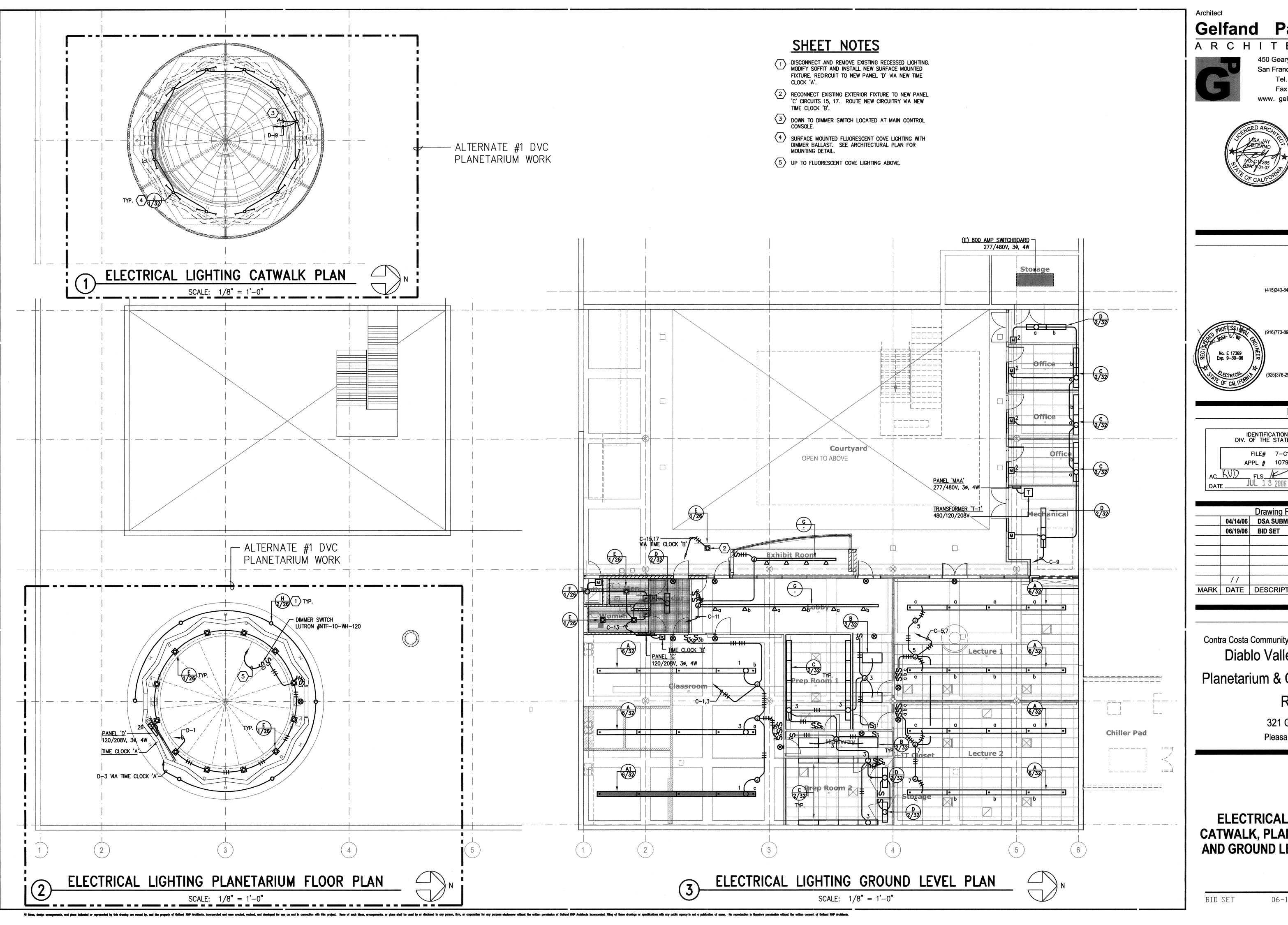
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Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

> 321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL DEMOLITION CATWALK, PLANETARIUM AND GROUND LEVEL PLAN



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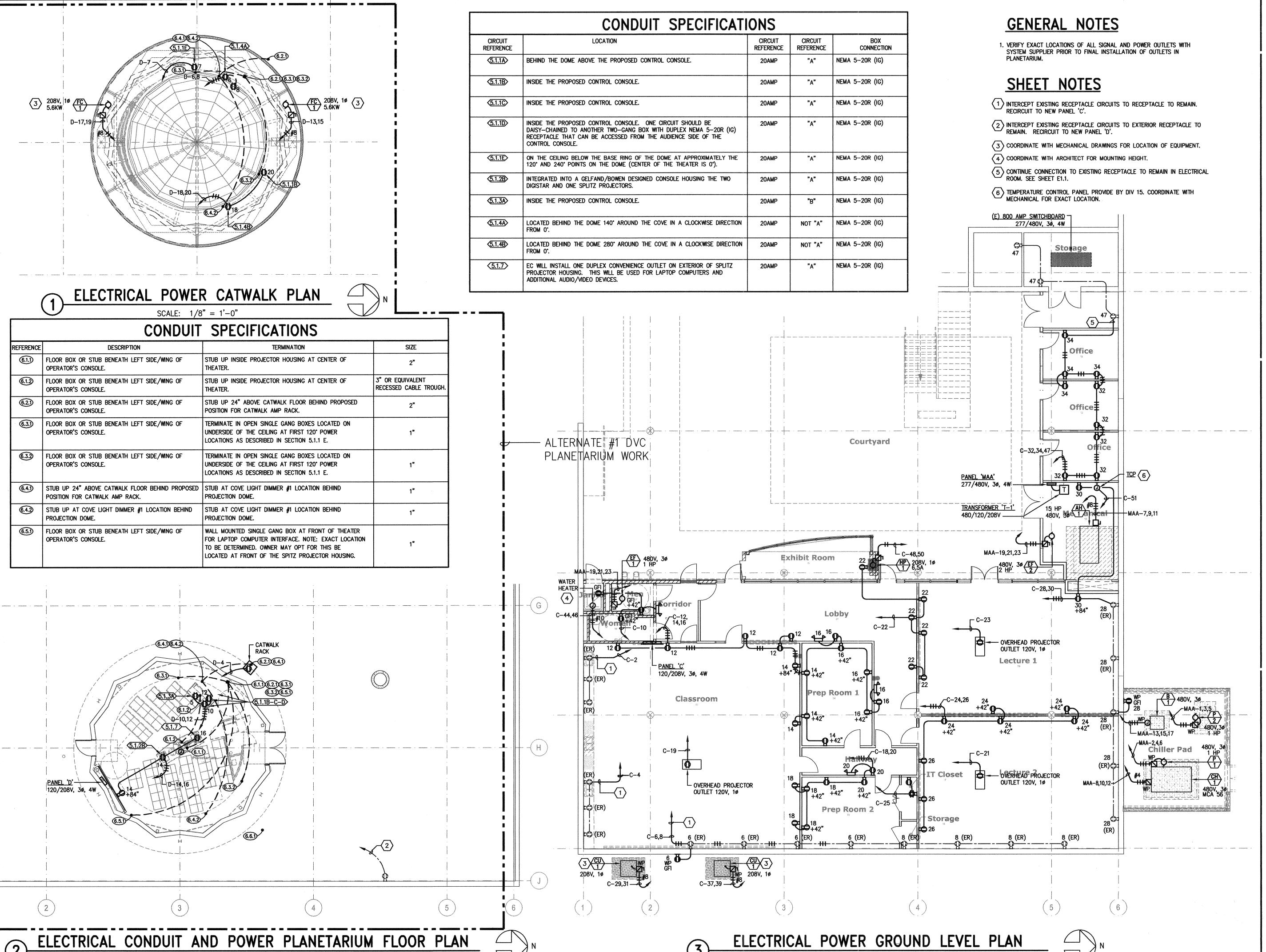
Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

> 321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL LIGHTING CATWALK, PLANETARIUM AND GROUND LEVEL PLAN

06-19-06



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

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WHM Engineering 1605 School Street Moraga, CA 94556 (925)376-2902(Tel.)/(925)376-2904 (Fax)

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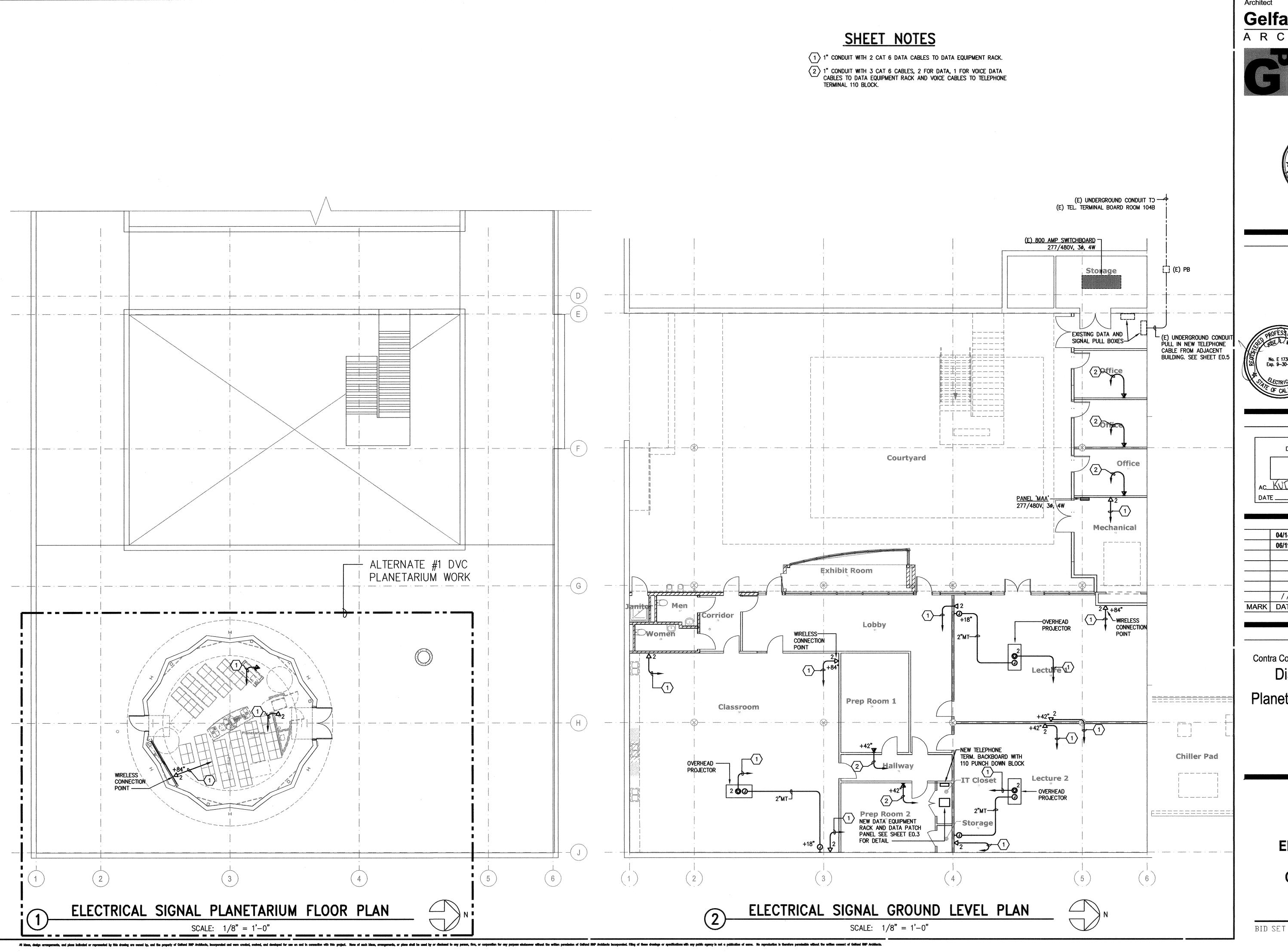
Contra Costa Community College District Diablo Valley College

Planetarium & Classroom Renovation

> 321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL POWER CATWALK, PLANETARIUM AND GROUND LEVEL PLAN

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



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ARCHITECTS 450 Geary Street, Suite 100

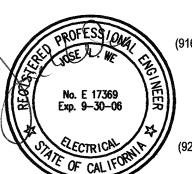


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6918 Merrywood Court

DSA Application

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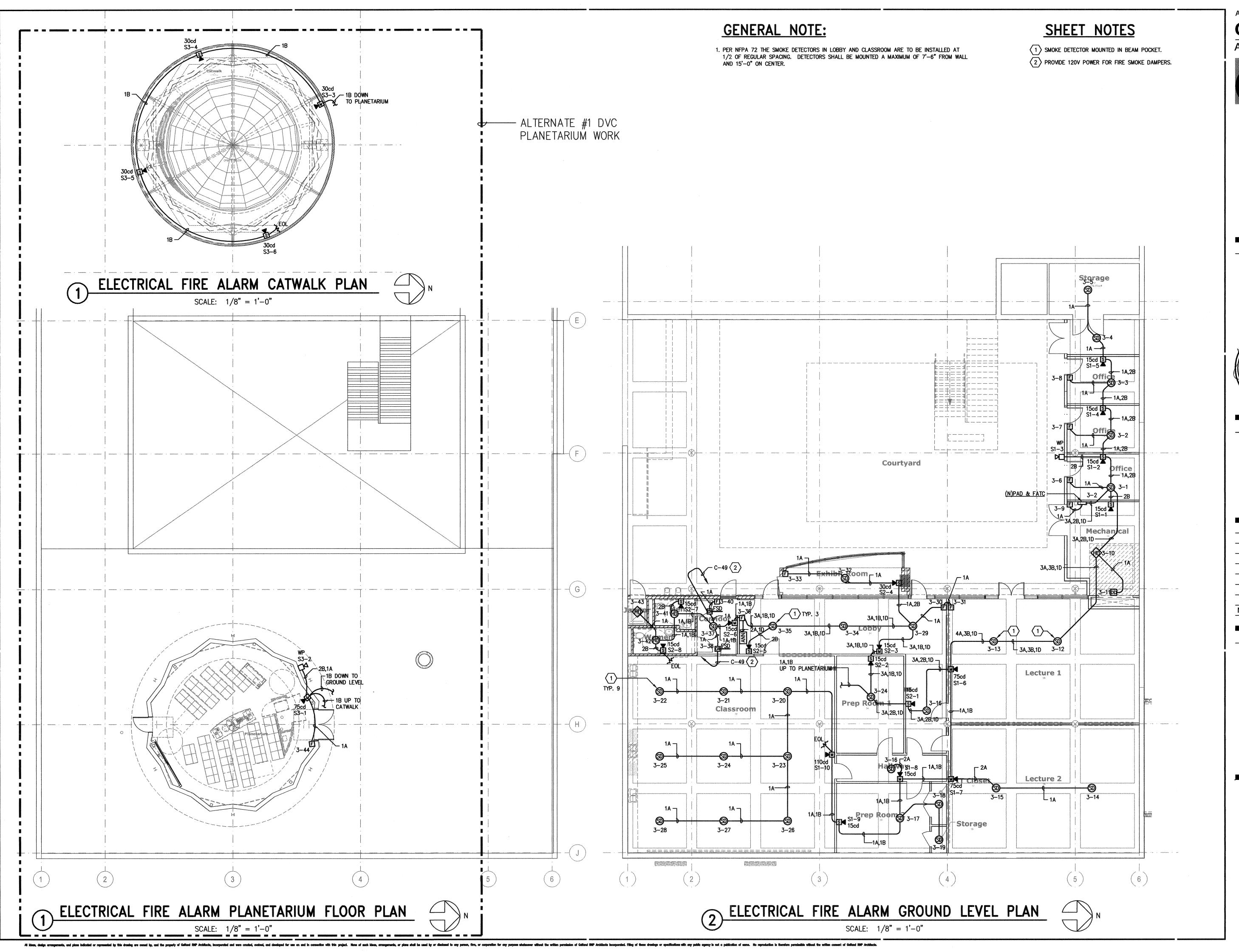
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DATE	DESCRIPTION
	06/19/06

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation 321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL SIGNAL PLANETARIUM AND GROUND LEVEL PLAN

06-19-06



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DSA Application

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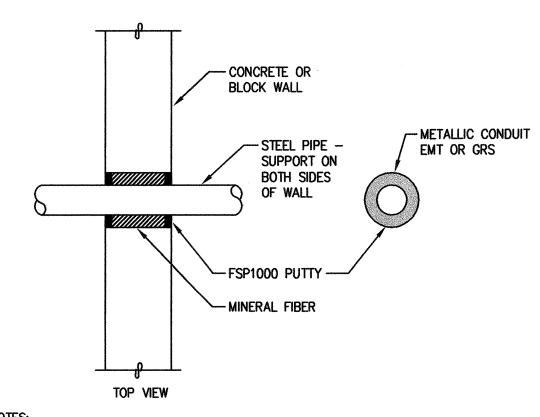
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	04/14/06	DSA SUBMISSION
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MARK	DATE	DESCRIPTION

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation 321 Golf Club Road

Pleasant Hill, CA 94523

ELECTRICAL FIRE ALARM CATWALK, PLANETARIUM AND GROUND LEVEL PLAN

FIRE RATED WALL -CONDUIT PENETRATION DETAIL NOT TO SCALE

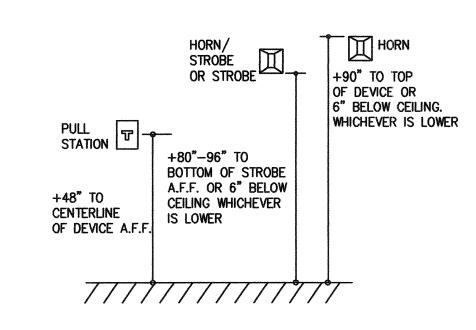


1. SYSTEM DESIGN EVALUATED TO THE TIME TEMPERATURE REQUIREMENTS OF ASTM E119.

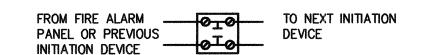
- 2. DESIGN BASED UPON UL CLASSIFIED SYSTEM NO. C-AJ-1023 EVALUATED TO UL STANDARD 1479 (ASTM E814).
- 3. INSTALL FIRESTOP COMPOUND TO A DEPTH OF 1/2" MINIMUM (BOTH SIDES).
- 4. MINIMUM ANNULAR SPACE (BETWEEN PIPE AND SIDE OF OPENING) 3/16".

FIRE RATED CONDUIT PENETRATION DETAIL 1 AND 2 HOUR MASONRY/CONCRETE WALL

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NOT TO SCALE



TYPICAL MONITOR/CONTROL MODULE OR RELAY

FROM FIRE ALARM
PANEL OR PREVIOUS
INITIATION DEVICE

TO NEXT INITIATION
DEVICE

TYPICAL PULL STATION

FROM FIRE ALARM
PANEL OR PREVIOUS
INITIATION DEVICE
TO NEXT INITIATION
DEVICE

TYPICAL HEAT DETECTOR

TO NEXT INITIATION FROM FIRE ALARM PANEL OR PREVIOUS DEVICE INITIATION DEVICE

TYPICAL SMOKE DETECTOR

FROM FIRE ALARM TO NEXT SIGNALING PANEL OR PREVIOUS DEVICE OR END-OF-LINE INITIATION DEVICE TYPICAL STROBE LIGHT

FROM FIRE ALARM TO NEXT SIGNALING PANEL OR PREVIOUS
INITIATION DEVICE DEVICE OR END-OF-LINE RESISTOR TYPICAL HORN

FROM FIRE ALARM
PANEL OR PREVIOUS
INITIATION DEVICE

TO NEXT SIGNALING
DEVICE OR END-OF-I
RESISTOR DEVICE OR END-OF-LINE

TYPICAL HORN/STROBE

TYPICAL FIRE ALARM DETAILS

SCOPE OF WORK

INSTALL NEW FIRE ALARM DEVICES, CONDUIT AND WIRING AS SHOWN ON PLANS AND CONNECT TO EXISTING SIEMENS FACP IN ADJACENT BUILDING.

- -THIS IS A NEW MANUAL ADDRESSABLE SYSTEM WITH AUTOMATIC SUPPLEMENTATION.
- -SYSTEM IS A PROTECTED PREMISIS AND REQUIRES 24 HOUR STANDBY.

- 2. TITLE 19 PUBLIC SAFETY CALIFORNIA STATE FIRE MARSHAL REQUIREMENTS
- 3. NFPA 72 (NATIONAL FIRE ALARM CODE) 1999 EDITION WITH CALIFORNIA AMENDMENTS

- 1. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA PROJECT INSPECTOR (PI). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/ WITNESS SUCH TESTING WHEN ABLE.
- 2. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS. (CEC 110-11 AND 300-6)
 - PULL STATION: 48" TO CENTER LINE OF DEVICE ABOVE FINISHED FLOOR. (CEC 380-8c) - HORN INTERIOR: MINIMUM 90" TO TOP OF DEVICE ABOVE FINISHED FLOOR, NOT LESS THAN
 - WALL MOUNTED STROBE OR HORN/STROBE: MINIMUM 80" TO BOTTOM OF DEVICE AND NOT
 - GREATER THAN 96" ABOVE FINISHED FLOOR, NOT LESS THAN 6" FROM CEILING. (1999 NFPA72-4-4.4)
- LESS THAN 75dba AT 10' OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE (1999 NFPA72-4-3.2.1 AND CFC 1007.3.3.3.3)
- 5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
- 6. PROVIDE AT LEAST ONE EXTERIOR HORN ON BUILDINGS FOR E OCCUPANCIES. (CFC 1007.2.4.3)
- 7. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. (1999 NFPA72-4-4.2)
- AND FIGURE 1-6.2.1)
- 10. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 11. MARK ALL WIRES IN ACCORDANCE WITH 760-10.
- 12. ALL OUTSIDE FIRE ALARM DEVICES SHALL BE WEATHERPROOF TYPE.
- 13. EXISTING CAMPUS FIRE ALARM SYSTEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM SCHOOL DISTRICT.
- 14. ALL FIRE ALARM WIRING SHALL BE CONTINUOUS WITHOUT SPLICES AND TERMINATED IN TERMINAL BLOCKS OF THE DEVICE OR FIRE ALARM APPROVED TERMINAL BLOCKS IN TERMINAL CABINETS OR
- 16. ALL WIRING TO BE RUN IN FIRE ALARM DEDICATED CONDUIT. ALL NEW FA WIRING SHALL BE INSTALLED IN CONDUIT MINIMUM SIZE 3/4" U.O.N. USE EXISTING FIRE ALARM CONDUITS WHERE PRACTICAL TO INSTALL A NEW FA WIRING. FIELD VERIFY EXACT EXISTING CONDUIT ROUTING.
- 17. ALL SHIELDS TO BE CONTINUOUS, DRY AND FREE FROM ALL GROUNDS AND SHORTS
- 18. THIS CAMPUS HAS AN EXISTING CENTRAL MONITORING STATION.

TYPE OF SYSTEM

- -CLASS 'B' DETECTION
- -CLASS 'B' INITIATION
- -THIS IS A COMMUNITY COLLEGE, THEREFORE THE GREEN OAKS FAMILY ACADEMY MIDDLE SCHOOL FIRE PROTECTION ACT (SB575) IS NOT APPLICABLE.

APPLICABLE CODES

- 1. CBC 2001; CEC 2001; CMC 2001; CFC 2001

FIRE ALARM SYSTEM NOTES

- 3. FIRE ALARM DEVICE MOUNTING HEIGHTS:
 - 6" FROM CEILING. (1999 NFPA72-4-3.5.1)
- 4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT

- 8. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE PROJECT INSPECTOR (PI) / DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (1999 NFPA 72 SEC. 1-6.2.1
- 9. ALL CIRCUITS SHALL BE SUPERVISED AGAINST OPENS, SHORTS AND GROUNDS.
- JUNCTION BOXES.
- 15. ALL FIRE ALARM WIRING INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.

FIRE ALARM OPERATION MATRIX								
	ANNUNCIATE ALARM CONDITION AT FACP	ANNUNCIATE TROUBLE CONDITION AT FACP	ANNUNCIATE ALARM CONDITION AT ANNUNCIATOR	ANNUNCIATE TROUBLE CONDITION AT ANNUNCIATOR	ACTIVATE HORN/STROBE UNITS THROUGHOUT THE BUILDING	SHUTDOWN ASSOCIATED AHU AND FIRE SMOKE DAMPERS	ACTIVATE ALARM SIGNAL FOR CENTRAL STATION (SIGNAL VIA DRY CONTACTS)	ACTIVATE TROUBLE SIGNAL FOR CENTRAL STATION (SIGNAL VIA DRY CONTACTS)
MANUAL STATION	Х		X		Х		Х	
SMOKE DETECTORS	X		X		Х	X	Х	
DUCT DETECTORS	X		Х		X	X	X	
SYSTEM TROUBLE		Х		х				Χ

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DSA Application

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE# 7-C1 IN SS CHE

		Drawing Record/Revision
	04/14/06	DSA SUBMISSION
	06/19/06	BID SET
	//	
MARK	DATE	DESCRIPTION

Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom

Renovation

321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL FIRE ALARM NOTES AND DETAILS

VOLTAGE DROP (VD) CALCULATION

				,						
			NAME:		DVC PLA S1	NETARIUM	I			
DEVICE #	1st					6th	7th			10th
GAUGE WIRE	12			12		12	12	12		12
DISTANCE (FT)	5			20			25	15		15
AMPS OF DEVICE	0.063									
TOTAL AMPS@DEV.	1.112									
VOLT. DROP @ DEV.	0.018391 —	0.034699 -	0.032615 -	0.061658 -	0.028745 —	0.239949	0.050361	0.020442 -	0.024395 -	0.011511
DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT) AMPS OF DEVICE										
TOTAL AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0
_						****	*****	****	***************************************	
				WIRE	RESIS.	CIRC.				
TOTAL CKT. AMPS	1.112	AMPS		SIZE	/M FT.	MILS.				
TOTAL OUT 1/ 0000	0.507	\ (D. 0		10		10380		** 5001	11 11 A .du.du	
TOTAL CKT V DROP	= 0.523	ADC		12		6530		** FORM	IULA **	
CICT VOLTAGE	0.4			14		4110		. *	* 01 6	
CKT VOLTAGE =	24			16				I * FEET	7 21.0	
% VOLTAGE DROP=	2.2%			18 20		1620 1020		_ С.М.		
% VOLIAGE DROP=				20	10.1	1020		C.M.		
		VOLTAGE	DROP (\	/D) CALC	ULATION					
		PROJECT				NETARIUM	I			
		SIGNAL	CIRCUIT #	:	S2					
DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12		12			12	12	12	12
DISTANCE (FT)	100	20	5	30	50	10	20	20		

		PROJECT	NAME:		DVC PLA	NETARIUM				
		SIGNAL C	RCUIT #	•	S2					
DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	100	20	5	30	50	10	20	20		
AMPS OF DEVICE	0.063	0.063	0.117	0.084	0.063	0.084	0.063	0.063		
TOTAL AMPS@DEV.	0.6	0.537	0.474	0.357	0.273	0.21	0.126	0.063	0	0
VOLT. DROP @ DEV.	0.198469	0.035526	0.00784	0.035427	0.045152	0.006946	0.008336	0.004168	0	0
	*******		_	-			_	_		-
DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)										
AMPS OF DEVICE										
TOTAL AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0
-	****	_		****						
				WIRE	RESIS.	CIRC.				
TOTAL CKT. AMPS	0.6	AMPS		SIZE	/M FT.	MILS.				
			•	10	1.24	10380				
TOTAL CKT V DROP =	0.342	VDC		12	1.59	6530		** FORM	JLA **	
				14	2.52	4110				
CKT VOLTAGE =	24			16	4.02	2580		I * FEET	* 21.6	
				18	6.39	1620		****		
% VOLTAGE DROP=	1.4%			20	10.1	1020		C.M.		

	BILL OF MATERIALS							
QTY.	DESCRIPTION	MODEL #	MANUFACTURER	CSFM LISTING #				
1	(E) FIRE ALARM CONTROL PANEL	MXL-IQ	SIEMENS	7165-0067:144				
1	(N) ANALOG LOOP DRIVER	ALD-2I	SIEMENS	7300-0067:172				
1	(N) REMOTE LCD ANNUNCIATOR	MKB-4	SIEMENS	7165-0067:144				
1	(N) REMOTE POWER SUPPLY (RPS)	PAD 3	SIEMENS	7315-0067:221				
9	(N) ADDRESSABLE PULL STATION	MSI-10B	SIEMENS	7150-0067:036				
26	(N) ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	FP-11	SIEMENS	7272-0067:203				
2	(N) ADDRESSABLE 135 DEG. HEAT DETECTOR	FPT-11	SIEMENS	7272-0067:202				
2	(N) 200 DEG. HEAT DETECTOR	DT-200R	SIEMENS	7272-0067:156				
1	(N) DUCT DETECTOR WITH RELAY	AD11-PR	SIEMENS	3240-0067:116				
2	(N) ADDRESSABLE MONITOR MODULE	TRI-B6M	SIEMENS	7300-0067:146				
2	(N) ADDRESSABLE CONTROL RELAY	TRI-R	SIEMENS	7300-0067:146				
2	(N) EXTERIOR WEATHERPROOF HORN	U-MHU-WP	SIEMENS	7135-0067:227				
11	(N) WALL MOUNT STROBE - 15CD	U-MHU-MCS	SIEMENS	7135-0067:227				
3	(N) WALL MOUNT STROBE - 30CD	U-MHU-MCS	SIEMENS	7135-0067:227				
0	(N) WALL MOUNT STROBE - 75CD	U-MHU-MCS	SIEMENS	7135-0067:227				
0	(N) WALL MOUNT STROBE - 110CD	U-MHU-MCS	SIEMENS	7135-0067:227				
3	(N) WALL MOUNT HORN/STROBE - 15CD	U-MCS	SIEMENS	7125-0067:219				
1	(N) WALL MOUNT HORN/STROBE - 30CD	U-MCS	SIEMENS	7125-0067:219				
3	(N) WALL MOUNT HORN/STROBE - 75CD	U-MCS	SIEMENS	7125-0067:219				
1	(N) WALL MOUNT HORN/STROBE - 110CD	U-MCS	SIEMENS	7125-0067:219				

		FIRE ALARM CONTROL PANEL BATT	ERY CALC	<u>ULATIONS</u>		
		PANEL MODULES				
QTY	QTY	DESCRIPTION	STAN	NDBY	ALARM	
(E)	(N)		EACH	TOTAL.	EACH	TOTAL
1	0	MAIN CIRCUIT BOARD - SMB 2	0.1750	0.1750	0.5000	0.5000
1	0	DIGITAL COMMUNICATOR	0.0600	0.0600	0.1300	0.1300
1	1	ALD-2I	0.1050	0.2100	0.1300	0.2600

	<u> </u>	PANEL STANDBY CURRENT	<u> </u>	0.4450		
		DANEL ALADM CLIDDENT		***************************************	***************************************	0.0000

QTY	QTY	DESCRIPTION	STAN	NDBY	AL/	VRM
(E)	(N)		EACH	TOTAL	EACH	TOTAL
0	1	MKB REMOTE ANNUNCIATOR	0.0050	0.0050	0.0150	0.0150
1	1	REMOTE POWER SUPPLY (RPS)	0.0350	0.0700	0.1400	0.2800
1	9	ADDRESSABLE PULL STATION	0.0110	0.1100	0.0110	0.1100
54	26	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	0.0110	0.8800	0.0110	0.8800
4	2	ADDRESSABLE 135 DEG. HEAT DETECTOR	0.0110	0.0660	0.0110	0.0660
4	2	200 DEG. HEAT DETECTOR	0.0110	0.0660	0.0110	0.0660
0	1	ADDRESSABLE DUCT DETECTOR WITH RELAY	0.0110	0.0110	0.0110	0.0110
2	2	ADDRESSABLE MONITOR MODULE	0.0110	0.0440	0.0110	0.0440
4	2	ADDRESSABLE RELAY CONTROL MODULE	0.0150	0.0900	0.0150	0.0900
		DEVICE STANDBY CURRENT		1.3420		
		DEVICE ALARM CURRENT				1.562

TOTAL SYSTEM CURRENT						
DESCRIPTION	STANDBY	ALARM				
CONTROL PANEL	0.4450	0.8900				
FIELD DEVICES	1.3420	1.5620				
TOTAL STANDBY CURRENT	1.7870					
X 24 HOUR STANDBY	42.8880					
TOTAL ALARM CURRENT		2.4520				
5 MINUTES OF ALARM (X .083)		0.2035				
TOTAL BATTERY REQUIREMENT		43.0915				
BATTERY SUPPLIED		(2) 55AH				

NEW RPS BATTERY CALCULATIONS

	PANE	EL MO	DULES				
QTY	DESCRIPTION		STANDBY		ALARM		
			EACH	TOTAL	EACH	TOTAL	
1	SIEMENS PAD 3		0.0350	0.0350	0.1400	0.1400	
······································							
	PANEL STANDBY CURRENT	0.0350					
	PANEL ALARM CURRENT				0.1400		
	FIE	LD DEV	ICES				
QTY	DESCRIPTION		STANDBY ALA		ARM		

	FIELD DE	VICES			
QTY	DESCRIPTION	STANDBY		ALARM	
		EACH	TOTAL	EACH	TOTAL
2	EXTERIOR WEATHERPROOF HORN	0.0000	0.0000	0.0530	0.1060
11	WALL MOUNT STROBE (15CD)	0.0000	0.0000	0.0630	0.6930
3	WALL MOUNT STROBE (30CD)	0.0000	0.0000	0.0840	0.2520
	WALL MOUNT STROBE (75CD)	0.0000	0.0000	0.1430	0.0000
	WALL MOUNT STROBE (110CD)	0.0000	0.0000	0.1780	0.0000
3	WALL MOUNT HORN/STROBE (15CD)	0.0000	0.0000	0.1170	0.3510
1	WALL MOUNT HORN/STROBE (30CD)	0.0000	0.0000	0.1380	0.1380
3	WALL MOUNT HORN/STROBE (75CD)	0.0000	0.0000	0.1970	0.5910
1	WALL MOUNT HORN/STROBE (110CD)	0.0000	0.0000	0.2320	0.2320
	DEVICE STANDBY CURRENT	1	0.0000		2.2570
	DEVICE ALARM CURRENT				

DESCRIPTION	STANDBY	ALARM	
CONTROL PANEL	0.0350	0.1400	
FIELD DEVICES	0.0000	2.2570	
TOTAL STANDBY CURRENT	0.0350		
X 60 HOUR STANDBY	2.1000		
TOTAL ALARM CURRENT		2.3970	
5 MINUTES OF ALARM (X .083)		0.1990	
TOTAL BATTERY REQUIREMENT		2.2990	
BATTERY SUPPLIED		(2) 7AH	

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Project

Contra Costa Community College District Diablo Valley College Planetarium & Classroom Renovation

> 321 Golf Club Road Pleasant Hill, CA 94523

ELECTRICAL FIRE ALARM RISER DIAGRAM AND CALCULATIONS

06-19-06