

# COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

1700 W. HILLSDALE BLVD. SAN MATEO, CALIFORNIA

DSA FILE NUMBER 41-C1 DSA APPLICATION NUMBER 01-110504

ABB	REVIATIONS	S	
•	TO CONSULTANT DRAW VIATIONS)	INGS FOR	RADDITIONAL
AC. TILE	ACOUSTIC TILE	LAB.	LABORATORY
ADJ.	ADJUSTABLE	LAV.	LAVATORY
ALUM.	ALUMINUM	LAM.	LAMINATE
A.B.	ANCHOR BOLT	M.B.	MACHINE BOLT
APPROX. AC	APPROXIMATELY ASPHALTIC CONCRETE	M.S. M.H.	MACHINE SCREW MANHOLE
A.F.F.	ABOVE FINISHED FLOOR	MFG.	MANUFACTURER
@	AT	M.O.	MASONRY OPENING
A.P.	ACCESS PANEL	MATL.	MATERIAL
ARCH.	ARCHITECT	MAX.	MAXIMUM
BLKG. BD.	BLOCKING BOARD	MECH. MTL.	MECHANICAL
BOT.	BOTTOM	MIN.	METAL MINIMUM
BLDG.	BUILDING	MISC.	MISCELLANEOUS
B.M.	BENCH MARK	MTD.	MOUNTED
B.W.	BOTH WAYS	M.BD.	MARKER BOARD
B.B. CAB.	BULLETIN BOARD CABINET	MUL.	MULLION
CAB.	CAST IRON	(N) N.I.C.	NEW NOT IN CONTRACT
C.B.	CATCH BASIN	N.T.S.	NOT TO SCALE
* ·	and/or CHALKBOARD	NO. or#	NUMBER
CLG.	CEILING	NOM.	NOMINAL
CEM.		OBS.	OBSCURE
G.C or O.C.	CENTER TO CENTER	O.C.	ON CENTER
	CENTERLINE CERAMIC TILE	OCC. OPNG.	OCCUPANT(CY) OPENING
C.O.	CLEANOUT	OPP.	OPPOSITE
C.O.T.G.		O.H.	OPPOSITE HAND
CLR.	CLEAR	O.H.W.S.	OVAL HEAD WOOD SCREW
C.AH.R.	CLEAR ALL HEART	O.F.O.S.	
, o var	REDWOOD	O.D.	OVERFLOW DRAIN and/or
C.W. COL.	COLD WATER COLUMN	O.F.C.I.	OUTSIDE DIAMETER
COL.	COMMON	O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
CONC.	CONCRETE	PART.	PARTITION
C.P.	CONCRETE PIPE	P.A.F.	
	CONSTRUCTION		FASTENER
C.H.		PL PL	PLATE
C.J. CONT.	CONSTRUCTION JOINT CONTINUOUS	PLAS.	PLASTER PLYWOOD
CONTR.	CONTRACTOR	PR.	PAIR
CTR.	COUNTER	P.L.	PROPERTY LINE
	COUNTER SUNK	d	PENNY (NAILS)
	DISABLED ACCESS		POLY VINYL CHLORIDE
DTL.	DETAIL	R. or RAD.	
DIA. OF Ø DIM.	DIAMETER DIMENSION		RETURN AIR GRILLE RAIN WATER LEADER
DW.	DISHWASHER		REDWOOD
DISP.	DISPOSAL	R.C.P.	REINFORCED CONCRETE
DO	DITTO		PIPE
DR.	DOOR	R.E.	
D.S.			REINFORCING
DWG. D.F.	DRAWING DRINKING FOUNTAIN		REQUIRED ROOF DRAIN
D.1 .	and/or DOUGLAS FIR	RM.	ROOM
EA.	EACH	R.O.	ROUGH OPENING
E.W.	EACH WAY	RND. or Ø	
ELEC.	ELECTRIC or ELECTRICAL	R.H.M.S.	
	ELECTRIC WATER COOLER	R.H.W.S.	SCREW ROUND HEAD WOOD
	ELEVATION	К.П.VV.З.	SCREW
	ENCLOSE and/or	S.A.G.	
	ENCLOSURE	S.D.	SASH DIMENSION
EQ.	EQUAL	S.T.S.M.S.	SELF TAPPING SHEET
EQUIP.	EQUIPMENT	01154711	METAL SCREW
(E) EX.	EXISTING EXPANSION	SHEATH. SHT.	SHEATHING SHEET
E.J.	EXPANSION JOINT	S.M.	
			SHEET METAL SCREW
	EXTERIOR	S.O.V.	
F.O.C.	FACE OF CONCRETE	SIM.	SIMILAR
F.O.M.	FACE OF MASONRY	S.C. SPEC.	SOLID CORE
F.O.S. F.O.F.	FACE OF STUD FACE OF FINISH		SPECIFICATIONS SQUARE
FIN.	FINISH	S.S.	STAINLESS STEEL
F.E.	FIRE EXTINGUISHER	STAG.	STAGGERED
F.E.C.	FIRE EXTINGUISHER CABINET		STANDARD
	FIRE HYDRANT	STL.	STEEL
	FIRE HOSE CABINET	STRUCT.	STRUCTURAL
Г.П.IVI.S. F H \M/ S	FLAT HEAD METAL SCREW FLAT HEAD WOOD SCREW	STOR. S.F.	STORAGE SQUARE FEET
FL. or FLR.		TEL.	TELEPHONE
F.D.	FLOOR DRAIN	T.T.B.	TELEPHONE TERMINAL BO
FTG.	FOOTING	TERR.	TERRAZZO
FND.	FOUNDATION	T.&G.	TONGUE & GROOVE
F.S.	FINISH SLAB	THRES.	THRESHOLD
GALV. G.I.	GALVANIZED GALVANIZED IRON	T.J. T.O.B.	TOOLED JOINT TOP OF BEAM

**GALVANIZED IRON** 

GYPSUM BOARD

HOLLOW CORE

HOLLOW META

HORIZONTAL

HOSE BIBB

INSULATION

INSIDE DIAMETER

JOIST HANGER

KILN DRIED

INTERIOR

INVERT

JANITOR

JOINT

HOUR

HARDWARE

GAUGE

GLASS

GLU-LAM GLUE-LAMINATED

GYP. BD.

HDW.

HORIZ.

INSUL.

I.D.

JAN.

K.D.

T.O.C.

T.O.S.

T.O.W.

U.O.S.

V.T.R.

V.G.

W.D.

W.H.

TOP OF BEAM

TOP OF WALK

VERTICAL

VERTICAL GRAIN

WATER CLOSET

WATER HEATER

WATERPROOF

WITHOUT

WOOD

TOP OF CURB or CONCRETE

TOP OF STEEL or SHEATHING

UNLESS OTHERWISE NOTED

VENT THROUGH ROOF

VINYL COMPOSITION TILE

VITRIFIED CLAY PIPE

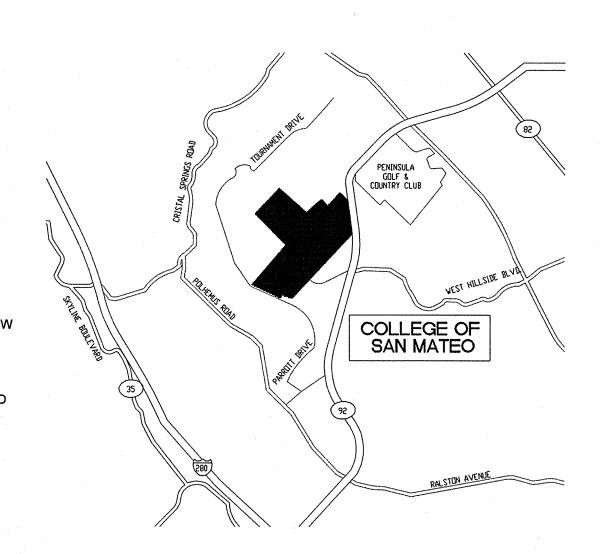
WINDOW DIMENSION

WELDED WIRE MESH

WATER RESISTANT

VINYL WALL COVERING

UNLESS OTHERWISE SHOWN



### GENERAL NOTES

#### PRE-BID SITE VISIT

CONTRACTOR SHALL, AS A CONDITION OF AN ACCEPTABLE BID, VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

#### DAMAGE TO STRUCTURE OR SYSTEMS TO REMAIN

CONTRACTOR SHALL REIMBURSE OWNER FOR REPAIR AND REPLACEMENT, TOGETHER WITH ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS.

ALL INFORMATION RELATING TO EXISTING CONSTRUCTION IS GIVEN AS BEING THE BEST INFORMATION AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND BUILDING DATA AT THE JOB SITE, ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.

COORDINATE WITH OWNER'S REPRESENTATIVE LOCATION OF CONTRACTOR'S BUILDING ENTRANCE AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR

BEFORE THE SHUT-DOWN OR TYING INTO ANY UTILITY, PRIOR APPROVAL SHALL BE OBTAINED FROM THE OWNER'S

#### ASBESTOS AND ASBESTOS PRODUCTS THE OWNER/OPERATOR AND CONTRACTOR SHOULD BE AWARE THAT IN

BUILDINGS, OR PORTIONS THEREOF, CONSTRUCTED PRIOR TO 1978 OR THERE ABOUT, THERE IS A SERIOUS POSSIBILITY THAT SOME EXISTING CONSTRUCTION MATERIALS CONTAINING ASBESTOS WILL BE ENCOUNTERED DURING ALTERATIONS OR REMODELING. UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE

RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL AND PATIENTS. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK, ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8,

### ALL BUILDING MATERIALS MUST BE ASBESTOS FREE

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN. DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

### CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE AND ARE ADJOINING THE WORK AND ARE NOT PART OF THE WORK.

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 4A, SECTION 420A.9.

### TITLE 24 COMPLIANCE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, 2007 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, 2007 CBC, A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING THE WORK.

### ADMINISTRATIVE REQUIREMENTS FROM PART 1., TITLE 24, C.C.R.

- ADDENDA AND CHANGES AS PER SECTION 4-338 - INSPECTOR APPROVED BY DSA

- INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333 - TESTS AND TESTING LABORATORY PER SECTION 4-335 (OWNER SHALL PAY THE TESTING LABORATORY)

- SPECIAL INSPECTION PER SECTION 4-333 (C) - CONTRACTOR SHALL SUBMIT VERIFIED REPORT OR SECTION 4-336 & 4-343 (C) - ADMINISTRATION OR CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (A) AND 4-341 - DUTIES OF CONTRACTOR PER SECTION 4-336

- VERIFIED REPORTS PER SECTION 4-336 - A COPY OF PARTS 1 TO 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION - DSA SHALL BE NOTIFIED AT START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331 · SUPERVISION BY DSA PER SECTION 4-33

### PIPES, DUCTS AND CONDUIT - SUPPORT AND BRACING

- DSA IS NOT SUBJECT TO ARBITRATION

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", NO. R-0003 THE SUPERSTRUT "SEISMIC RESTRAINT SYSTEM" FOR PIPES AND CONDUITS ONLY OR NO. R-0071 THE KIN-LINE "SEISMIC RESTRAINT SYSTEM" FOR PIPES AND CONDUITS ONLY.

### **DRILLED IN EXPANSION ANCHORS**

WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

### CEILING SYSTEM INSTALLATION

THE CONTRACTOR SHALL FULLY REVIEW THE PLANS AND SPECIFICATIONS, TO INSURE THE PROPER TIMING AND INSTALLATION SEQUENCING, FOR THE VARIOUS TRADES INSTALLING SYSTEMS IN THE

THE PLANS AND SPECIFICATIONS INCLUDE INFORMATION & DETAILS TO GUIDE THE CONTRACTOR IN THIS PROCESS. THE CONTRACTOR IS REQUIRED TO COORDINATE ALL THE SUBCONTRACTORS AND THEIR VARIOUS INSTALLATION REQUIREMENTS. TO SCHEDULE ALL WORK TO ENSURE THAT THERE IS NO OVERLAP OR CONFLICT BETWEEN THE TRADES, AND TO ENSURE THE FINAL INSTALLATION WILL MEET THE INTENT OF THE PLANS AND THE REQUIRTEMENTS OF THE CURRENT

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING THAT THE CONTRACTOR HAS FULLY COORDINATED THE SUBCONTRACTORS. THE CONTRACTOR AND/OR THE CONSULTANTS IN REVIEW OF THESE SHOP DRAWINGS, WILL ASSUME THAT THE COORDINATION AND SEQUENCING. THE ARCHITECT AND/OR CONSULTANTS WILL REVIEW THE SHOP DRAWINGS FOR CONFORMANCE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADVISE THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION OF ANY CONFLICTS IN THE PLANS WHICH WILL PREVENT THE CONTRACTOR OR THE SUBCONTRACTORS FROM INSTALLING THEIR CEILING SYSTEM COMPONENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS AND CURRENT CODES.

#### ANCHORAGE FOR EQUIPMENT

ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400 POUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE. FURNITURE OR TEMPORARY OR MOVEABLE EQUIPMENT AND VIBRATION ISOLATION DEVICES SUSPENDED FROM THE ROOF, WALL OR FLOOR NEED NOT BE DETAILED ON THE PLANS. HOWEVER, SUCH EQUIPMENT MUST BE SUPPORTED AND ANCHORED TO RESIST THE FORCES PRESCRIBED BY ASCE 7-05 SECTION 13.3 AND THE ANCHORAGE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND THE FIELD REPRESENTATIVE OF DSA. THE BUILDING INSPECTOR SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

#### SUBSTITUTIONS

SUBSTITUTIONS FOR PRE-DESIGNED AND PRE-CALCULATED ITEMS SPECIFIED HEREIN SHALL BE SUBSTANTIATED WITH CALCULATIONS BY A CALIFORNIA REGISTERED STRUCTURAL ENGINEER AT CONTRACTOR'S EXPENSE PRIOR TO FABRICATION AND INSTALLATION.

#### SPECIFIC NOTES

ALL NOTES SHALL REFER TO NEW CONSTRUCTION, UNLESS "EXISTING" IS SPECIFICALLY MENTIONED.

FIRE SPRINKLER SYSTEM / FIRE ALARM SYSTEM PLANS CONTRACTOR SHALL PREPARE PLANS AND CALCULATIONS AND COMPLY W/ NFPA STANDARD 72. "INSTALLATION OF FIRE ALARMS". CONTRACTOR SHALL SUBMIT PLANS, SPECIFICATIONS AND ANY REQUIRED CALCULATIONS FOR APPROVAL PRIOR TO INSTALLATION.

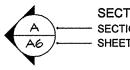
### HAZARDOUS MATERIAL

ALL COMPRESSED GASES AND HAZARDOUS MATERIALS USE AND STORAGE TO COMPLY WITH THE CALIFORNIA FIRE CODE.

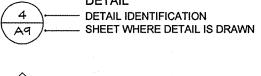
### PROJECT SUMMARY

REMODEL AND REPLACEMENT OF FIXTURES AND FINISHES IN BOTH MEN AND WOMEN'S RESTROOMS IN BUILDING 9. UPDATE TO CURRENT ADA STANDARDS.

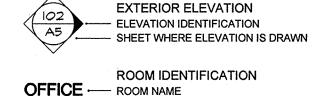
### SYMBOLS LEGEND



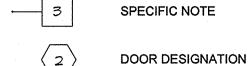
A \- SECTION IDENTIFICATION - SHEET WHERE SECTION IS DRAWN



INTERIOR ELEVATION - INDICATES ELEVATION SHOWN - SHEET WHERE ELEVATION IS DRAWN



ROOM IDENTIFICATION



SPECIFIC NOTE



WINDOW DESIGNATION



CLOUD AROUND REVISION

### MECHANICAL (SEE ALSO MECHANICAL DWGS.)

WALL TYPE SYMBOL

SUPPLY DIFFUSER RETURN AIR GRILLE

**ELECTRICAL** (SEE ALSO ELECTRICAL DWGS.)

**EXHAUST GRILLE** 

2' X 4' LIGHT FIXTURE

2' X 2' LIGHT FIXTURE

RECESSED DOWNLIGHT EXIT SIGN

SMOKE DETECTOR TELEVISION AND BRACKET SPEAKER

> MATCH LINE SHADED SIDE IS SIDE CONSIDERED

### **OWNER**

ATTN: DANNY TANAKA

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT 1700 W. HILLSDALE BLVD., BLDG 6 SAN MATEO, CALIFORNIA 94402 (650) 358-6861 (408) 358-6764 FAX

### **DESIGN TEAM**

<u>ARCHITECTURAL</u> SUGIMURA FINNEY ARCHITECTS 2155 SOUTH BASCOM AVENUE SUITE 200 CAMPBELL, CALIFORNIA 95008 (408) 879-0600 (408) 377-6066 FAX ATTN: SELMA VUKOTIC

**ELECTRICAL/ MECHANICAL/ PLUMBING ENGINEER** INTERFACE ENGINEERING 717 MARKET ST. #500 SAN FRANCISCO, CALIFORNIA, 94103 (415) 489-7240

ATTN: RON GEÖRGE **STRUCTURAL** HOH-BACH-LEWIN 260 SHERIDAN AVE., SUITE 150 PALO ALTO, CALIFORNIA, 94306

(415) 489-7289 FAX

(650) 617-5932 FAX

ATTN: DAN LEWIN

## **CODE SUMMARY**

### **BUILDING CODES** AND STANDARDS:

2007 - CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR) 2007 - CALIFORNIA BUILDING CODE, VOLUMES 1, 2

(PART 2, TITLE 24, CCR) 2007 - CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR)

2007 - CALIFORNIA MECHANICAL CODE, (PART 4, TITLE 24, CCR) 2007 - CALIFORNIA PLUMBING CODE, (PART 5, TITLE 24, CCR) 2007 - CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2007 - CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) 2007 - CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24, CCR)

2007 - CALIFORNIA REFERENCE STANDARDS (PART 12, TITLE 24, CCR) 2005 - (AISC) MANUAL OF STEEL CONSTRUCTION, 13TH EDITION 2005 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

2005 - ACI-318-05 CODE AND COMMENTARY 2002 - NFPA 13 AUTOMATIC SPRINKLER SYSTEMS

2003 - NFPA 14 INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS 2002 - NFPA 72 NATIONAL FIRE ALARM CODE

> 2003 - NFPA INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2003 - NFPA WATER TANKS FOR PRIVATE FIRE PROTECTION 2002 - NFPA 24 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

2006 - CALIFORNIA EDITION, NFPA 25 INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS

2005 - NFPA 100 EMERGENCY AND STANDBY POWER SYSTEMS 2002 - NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2002 - NFPA 17A TO UL 300 FOR CLASS 1 HOOD FIRE SUPPRESSION SYSTEM (WET CHEMICAL EXTINGUISHING SYSTEMS)

2004 - NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS ICC 300-02 STANDARDS ON BLEACHERS, FOLDING TELESCOPIC SEATING & GRANDSTANDS ASTM STANDARDS CHANGES (EXAMPLE ASITM E648-04 STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOOR)

UL STANDARDS CHANGES (EXAMPLE 25 UL 38 MANUAL OPERATING SIGNAL

### TITLE 19 CCR STATE FIRE MARSHAL REGULATIONS 2003 - UL 464 AUDIBLE SIGNAL APPLIANCES

REGULATIONS (INCLUDING AMENDMENTS)

1999 - UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 2002 - UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36, APPENDIX A ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF FEDERAL

### DRAWING INDEX

T1 TITLE SHEET, SYMBOLS AND STANDARDS T1.03 ACCESSIBILITY SITE PLAN - (FOR REFERENCE ONLY)

#### **ARCHITECTURAL**

A0.1 SITE PLAN A1.1 DEMOLITION GROUND FLOOR PLAN A1.2 EXISTING FIRST FLOOR PLAN (FOR REFERENCE ONLY) A1.3 EXISTING MEZZANINE FLOOR PLAN (FOR REFERENCE

A8.1 GROUND FLOOR RESTROOM INTERIOR ELEVATIONS

A9.1 RESTROOM DETAILS A9.2 DETAILS A9.3 GYPSUM BOARD CEILING DETAILS

M3.1 MECHANICAL DETAILS

A9.4 WALL DETAILS

M0.1 MECHANICAL SYMBOL LIST, GENERAL NOTES & SHEET M2.1 PARTIAL GROUND LEVEL FLOOR PLANS - MECHANICAL

P0.1 PLUMBING SYMBOL LIST, GENERAL NOTES, SCHEDULES P2.1 PARTIAL GROUND LEVEL FLOOR PLAN - PLUMBING

E0.1 ELECTRICAL SYMBOL LIST, GENERAL NOTES & SHEET

### E0.2 TITLE 24 CALCULATIONS E2.1 GROUND LEVEL FLOOR PLAN - ELECTRICAL (DEMOLITION/

F0.1 FIRE ALARM SYMBOLS LIST, MATRIX & SHEET INDEX F2.1 GROUND LEVEL FLOOR PLAN - FIRE ALARM

F3.1 FIRE ALARM RISER DIAGRAM AND CALCULATIONS

## PERFORMANCE SPECIFICATION

**STATEMENT** THE DRAWINGS AND CALCULATIONS FOR THE ITEMS LISTED ABOVE HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE OF CALIFORNIA. THESE DOCUMENTS HAVE BEEN EXAMINED FOR DESIGN INTENT AND APPEAR TO MEET

BUT THE UNDERSIGNED IS NOT RESPONSIBLE FOR THEIR FECHNICAL ACCURACY OR ADEQUACY. THE ITEMS LISTED ABOVE HAVE BEEN COORDINATED WITH THE

THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE

OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED,

PLANS AND SPECIFICATIONS. D.M. Hugmun GÉNE M. SUGIMURA, AIA

ICENSE NUMBER

MARCH 31, 2011 EXPIRATION DATE

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Sugim

Exp. 3-31-11

APPL 01 01-110504

DATE JUI 0 7 2000

FILE NO. 41-C1

Division of the State Architect

Regional Office

Oakland, CA 94612

1515 Clay St., Suite 1201

AC INEN FLS ACTIONS THAN

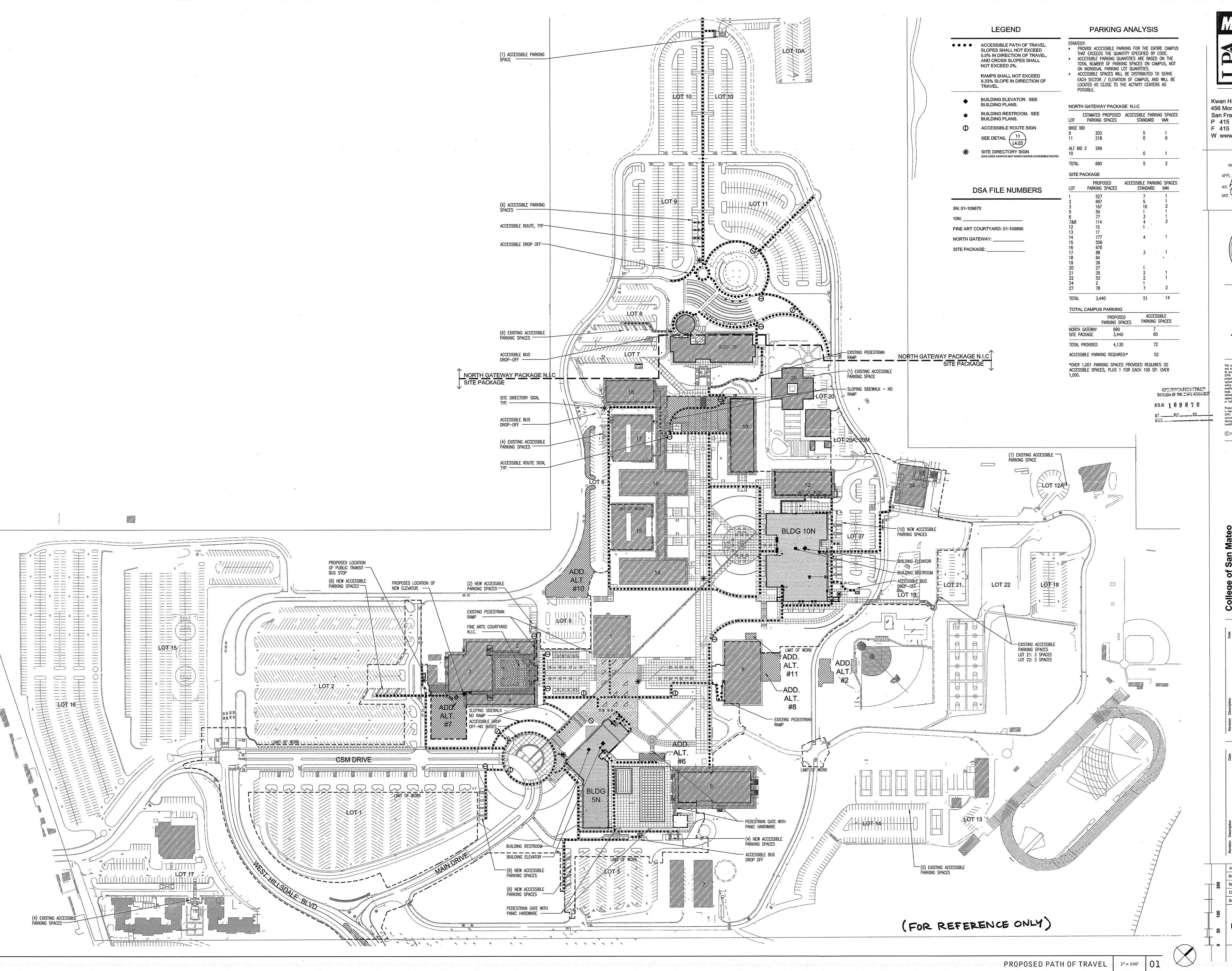
REVISIONS

ITEM

DATE

CLIENT APPROVAL:

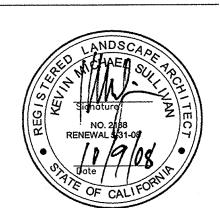
RAWN BY: CHECKED BY: JOB NO:



Kwan Henmi Architecture / Planni 456 Montgomery St., Suite 300

San Francisco, California 94104 P 415 777-4770 F 415 777-5102 W www.kwanhenmi.com

> IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

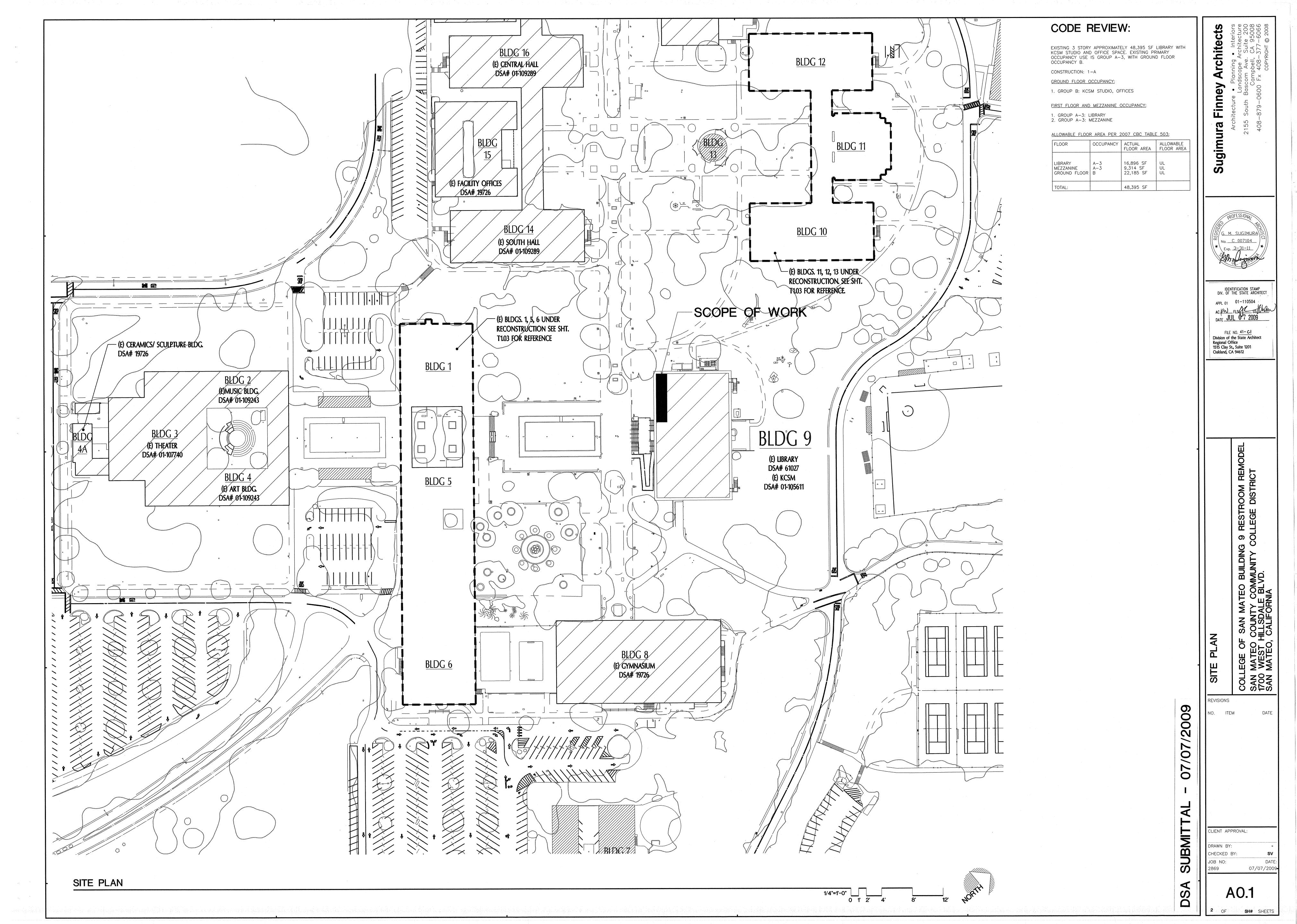


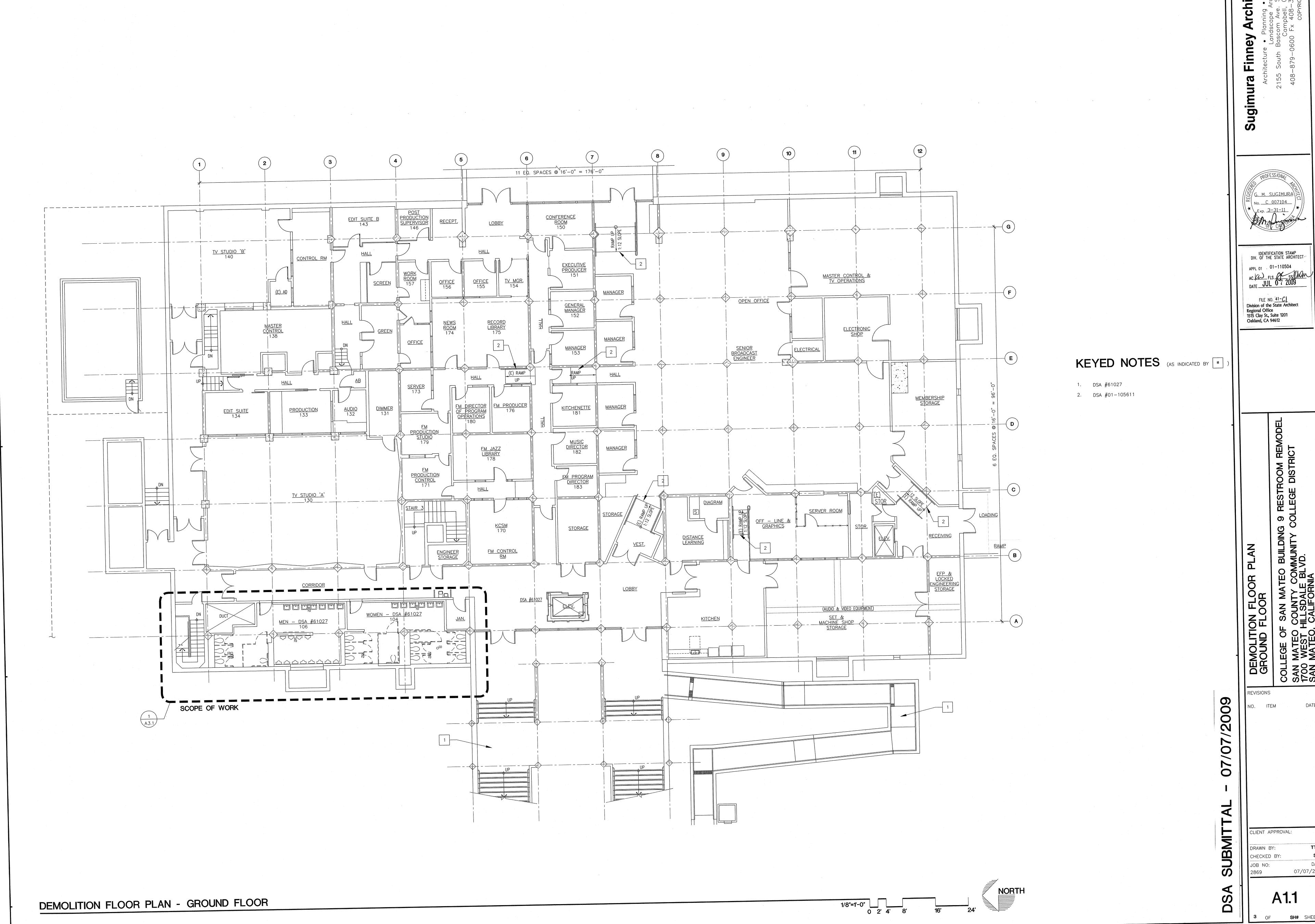
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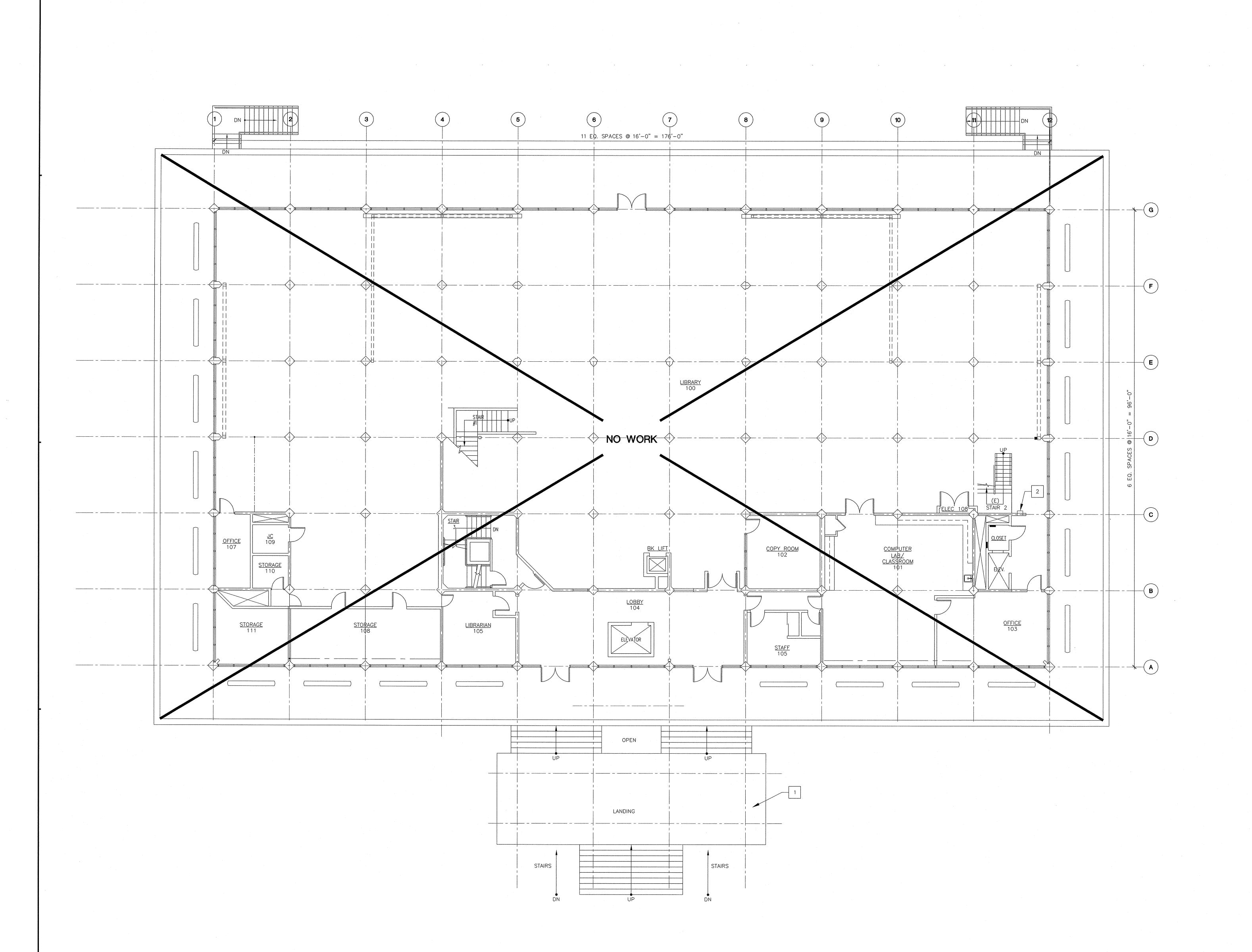
27082.30 10.10.08 DT, RF SM AS SHOWN

**ACCESSIBLE** PATH OF TRAVEL PLAN

T 1.03







SHEET NOTES (AS INDICATED BY # )

1. DSA #61027

2. (E) DRINKING FOUNTAIN. DSA # 19726

**Sugimura Finney** 

APPL 01 01-110504

AC W FLS A SS WWW

DATE JUL 0 7 2009

FILE NO. 41-C I
Division of the State Architect
Regional Office
1515 Clay St., Suite 1201
Oakland, CA 94612

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DSA

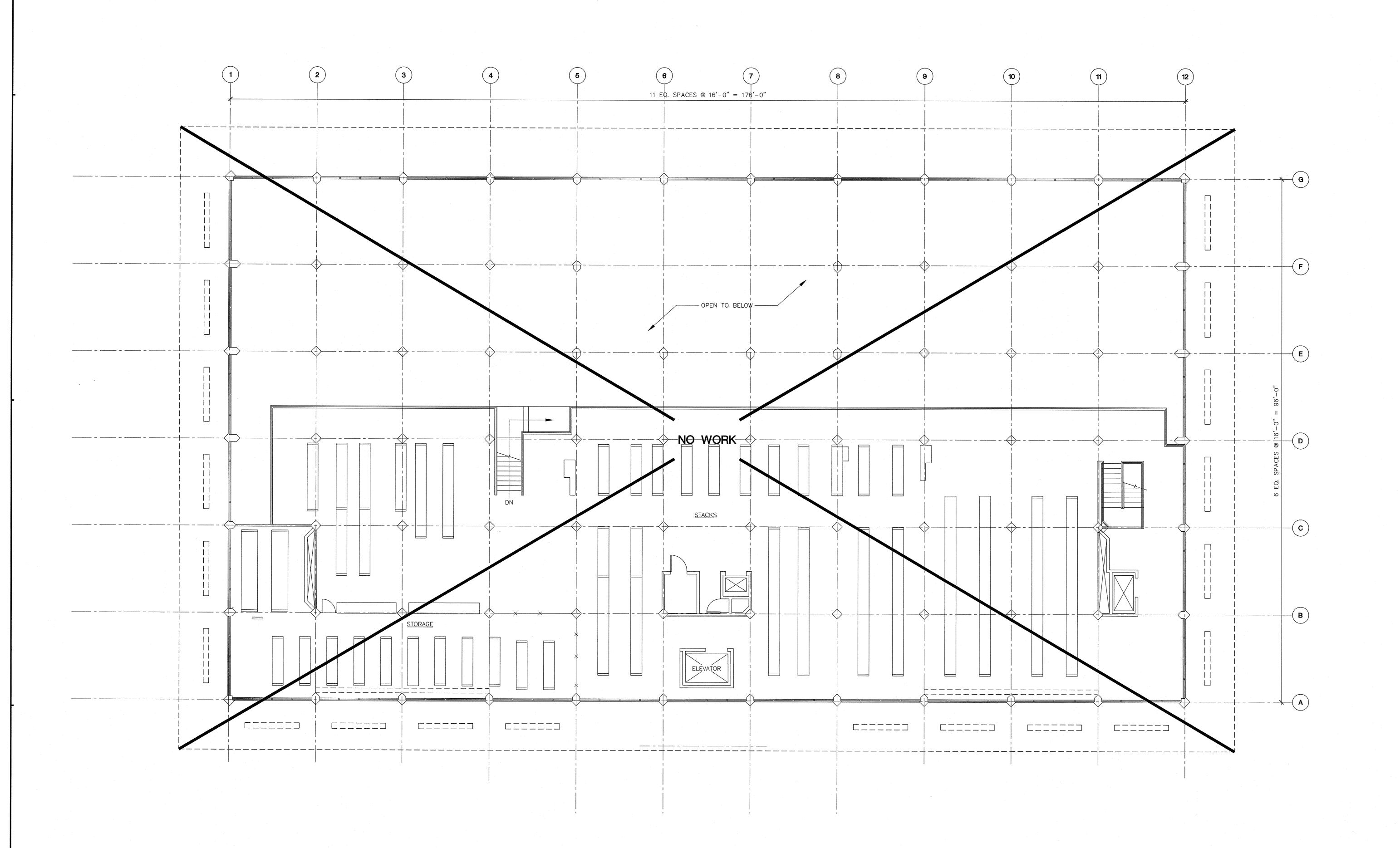
A1.2

07/07/200

SH# SHEETS

EXISTING FLOOR PLAN - FIRST FLOOR

(FOR REFERENCE ONLY)



CLIENT A CHECKED MEZZANINE FLOOR

KISTING FLOOR PLAN
EZZANINE FLOOR
LEGE OF SAN MATEO BUILDING 9 RESTROOM REMC
MATEO COUNTY COMMUNITY COLLEGE DISTRICT
WEST HILLSDALF BLVD

FILE NO. 41-C1
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Regional Office
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MITTAL - 07/07/2009

DSA

LIENT APPROVAL:

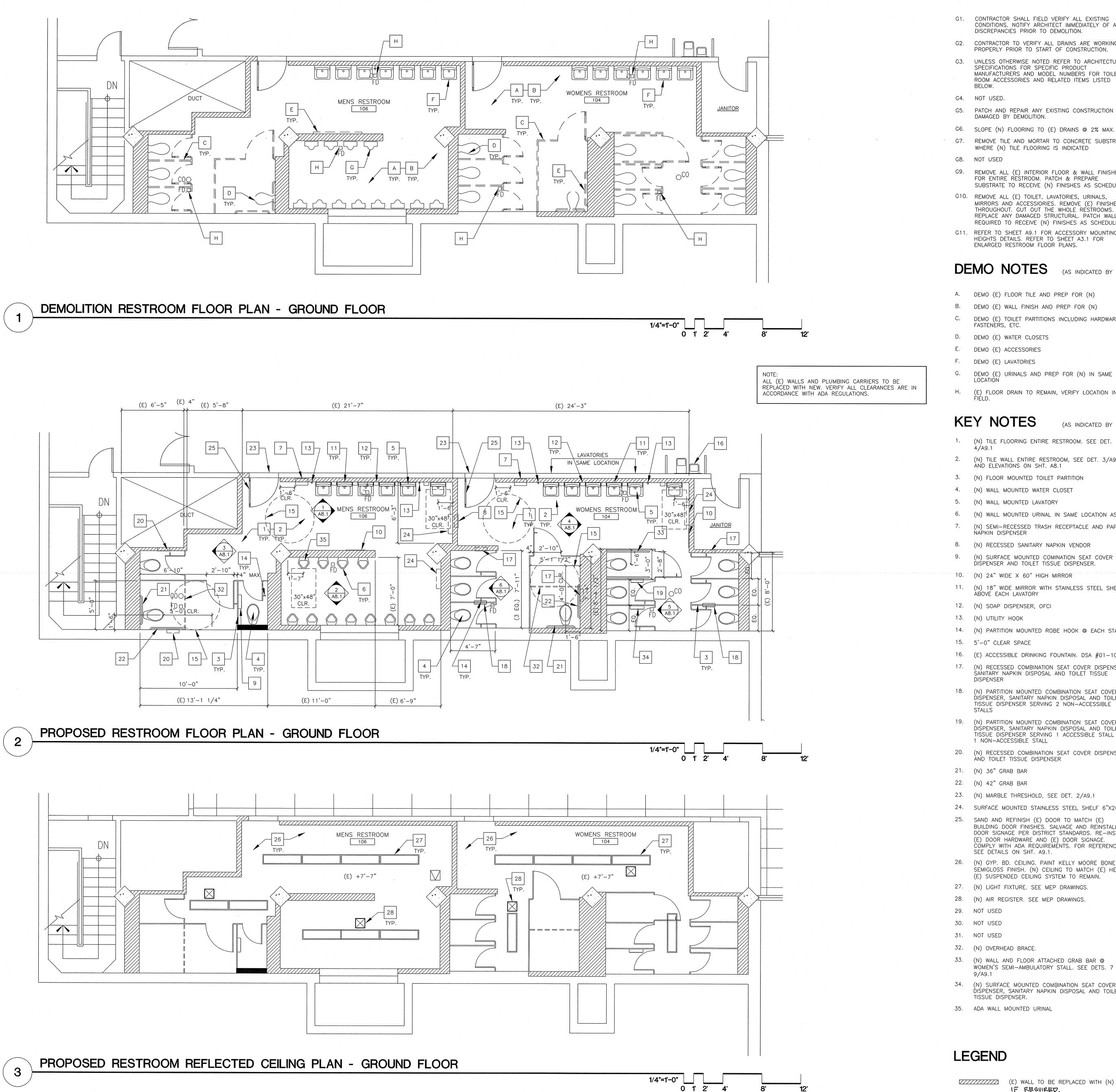
RAWN BY: TTT

HECKED BY: SV

OB NO: DATE:

869 07/07/2009

A1.3



### GENERAL NOTES

G1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY

Architects

Finney

Sugimura

<u>J. M. SUGIMURA\</u> No. C 007104

Exp. 3-31-11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

AC KW FLS A SS MAN

RESTROOM LLEGE DISTR

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REVISIONS

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SUBN

APPL 01 01-110504

DATE **JIII 0 7 2009** 

FILE NO. 41-C1

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Oakland, CA 94612

- G2. CONTRACTOR TO VERIFY ALL DRAINS ARE WORKING
- G3. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL SPECIFICATIONS FOR SPECIFIC PRODUCT MANUFACTURERS AND MODEL NUMBERS FOR TOILET ROOM ACCESSORIES AND RELATED ITEMS LISTED
- G4. NOT USED.
- G5. PATCH AND REPAIR ANY EXISTING CONSTRUCTION DAMAGED BY DEMOLITION.
- G6. SLOPE (N) FLOORING TO (E) DRAINS @ 2% MAX.
- G7. REMOVE TILE AND MORTAR TO CONCRETE SUBSTRATE
- G8. NOT USED
- G9. REMOVE ALL (E) INTERIOR FLOOR & WALL FINISHES FOR ENTIRE RESTROOM. PATCH & PREPARE SUBSTRATE TO RECEIVE (N) FINISHES AS SCHEDULED.
- G10. REMOVE ALL (E) TOILET, LAVATORIES, URINALS, MIRRORS AND ACCESSIORIES. REMOVE (E) FINISHES, THROUGHOUT. GUT OUT THE WHOLE RESTROOMS. REPLACE ANY DAMAGED STRUCTURAL. PATCH WALL AS REQUIRED TO RECEIVE (N) FINISHES AS SCHEDULED.
- G11. REFER TO SHEET A9.1 FOR ACCESSORY MOUNTING HEIGHTS DETAILS. REFER TO SHEET A3.1 FOR ENLARGED RESTROOM FLOOR PLANS.

### DEMO NOTES (AS INDICATED BY # )

- A. DEMO (E) FLOOR TILE AND PREP FOR (N)
- B. DEMO (E) WALL FINISH AND PREP FOR (N)
- C. DEMO (E) TOILET PARTITIONS INCLUDING HARDWARE, FASTENERS, ETC.

- F. DEMO (E) LAVATORIES
- G. DEMO (E) URINALS AND PREP FOR (N) IN SAME
- H. (E) FLOOR DRAIN TO REMAIN, VERIFY LOCATION IN

- (AS INDICATED BY # )
- (N) TILE WALL ENTIRE RESTROOM, SEE DET. 3/A9.1
- AND ELEVATIONS ON SHT. A8.1 3. (N) FLOOR MOUNTED TOILET PARTITION
- 4. (N) WALL MOUNTED WATER CLOSET
- 5. (N) WALL MOUNTED LAVATORY
- 6. (N) WALL MOUNTED URINAL IN SAME LOCATION AS (E) 7. (N) SEMI-RECESSED TRASH RECEPTACLE AND PAPER
- NAPKIN DISPENSER
- 8. (N) RECESSED SANITARY NAPKIN VENDOR
- DISPENSER AND TOILET TISSUE DISPENSER.
- 11. (N) 18" WIDE MIRROR WITH STAINLESS STEEL SHELF ABOVE EACH LAVATORY
- 12. (N) SOAP DISPENSER, OFCI
- 13. (N) UTILITY HOOK
- 14. (N) PARTITION MOUNTED ROBE HOOK @ EACH STALL
- 15. 5'-0" CLEAR SPACE
- 16. (E) ACCESSIBLE DRINKING FOUNTAIN. DSA #01-105611 17. (N) RECESSED COMBINATION SEAT COVER DISPENSER,
- SANITARY NAPKIN DISPOSAL AND TOILET TISSUE 18. (N) PARTITION MOUNTED COMBINATION SEAT COVER
- DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 2 NON-ACCESSIBLE
- 19. (N) PARTITION MOUNTED COMBINATION SEAT COVER DIŚPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 1 ACCESSIBLE STALL AND 1 NON-ACCESSIBLE STALL
- 20. (N) RECESSED COMBINATION SEAT COVER DISPENSER ÀND TOILET TISSUE DISPENSER
- 21. (N) 36" GRAB BAR
- 22 (N) 42" GRAB BAR
- 23. (N) MARBLE THRESHOLD, SEE DET. 2/A9.1
- 24. SURFACE MOUNTED STAINLESS STEEL SHELF 6"X26" 25. SAND AND REFINISH (E) DOOR TO MATCH (E)
- BUILDING DOOR FINISHES. SALVAGE AND REINSTALL (E) DOOR SIGNAGE PER DISTRICT STANDARDS. RE-INSTALL (E) DOOR HARDWARE AND (E) DOOR SIGNAGE. COMPLY WITH ADA REQUIREMENTS. FOR REFERENCE SEE DETAILS ON SHT. A9.1.
- 26. (N) GYP. BD. CEILING. PAINT KELLY MOORE BONE 27, SEMIGLOSS FINISH. (N) CEILING TO MATCH (E) HEIGHT. (E) SUSPENDED CEILING SYSTEM TO REMAIN.
- 27. (N) LIGHT FIXTURE. SEE MEP DRAWINGS.
- 28. (N) AIR REGISTER. SEE MEP DRAWINGS.
- 29. NOT USED
- 30. NOT USED
- 31. NOT USED
- 32. (N) OVERHEAD BRACE.
- 33. (N) WALL AND FLOOR ATTACHED GRAB BAR @ WOMEN'S SEMI-AMBULATORY STALL. SEE DETS. 7 &
- 34. (N) SURFACE MOUNTED COMBINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET
- 35. ADA WALL MOUNTED URINAL

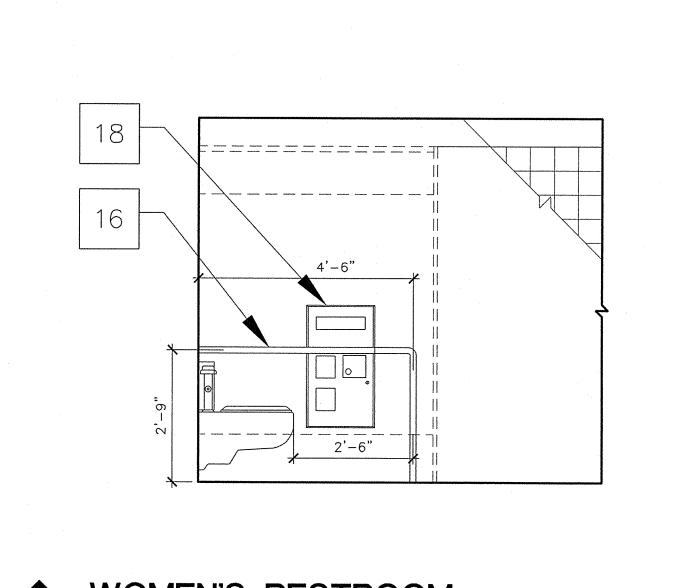
## LEGEND

(E) WALL TO BE REPLACED WITH (N) IF REQUIRED.

(N) FURRED WALL

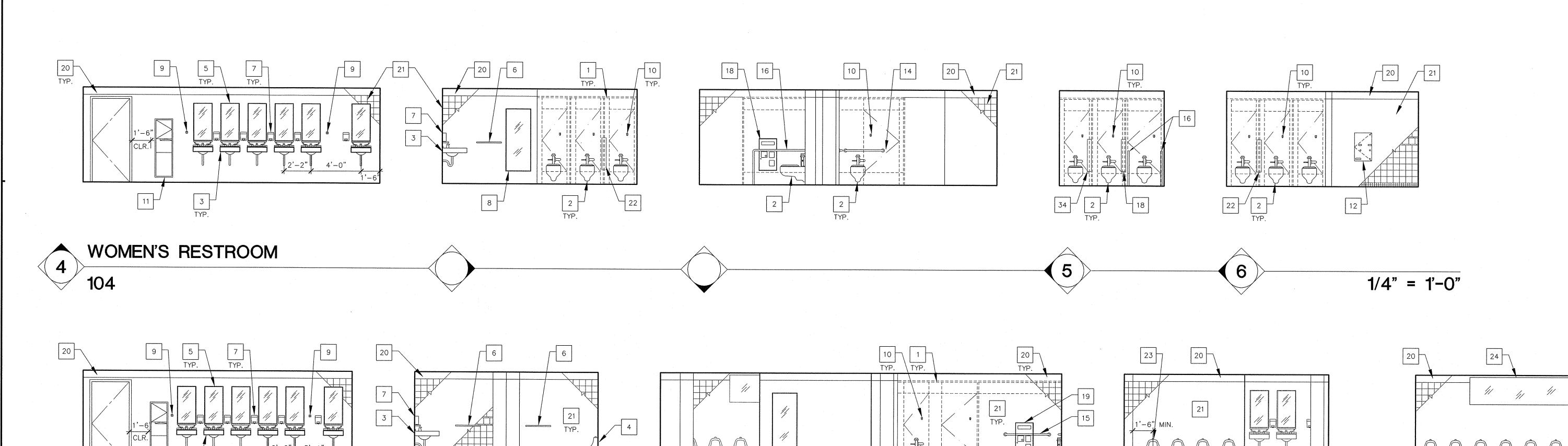
A3.1 SH# SHEETS

CLIENT APPROVAL: CHECKED BY: 07/07/2009



MEN'S RESTROOM





### GENERAL NOTES

- A. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL SPECIFICATIONS FOR SPECIFIC PRODUCT MANUFACTURERS AND MODEL NUMBERS FOR TOILET ROOM ACCESSORIES AND RELATED ITEMS LISTED
- B. REFER TO SHEET A9.1 FOR ACCESSORY MOUNTING HEIGHTS DETAILS. REFER TO SHEET A3.1 FOR ENLARGED RESTROOM FLOOR PLANS.

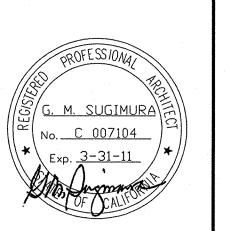
### KEYED NOTES (AS INDICATED BY # )

- 1. FLOOR MOUNTED TOILET PARTITION
- 2. ADA WALL MOUNTED WATER CLOSET
- WALL MOUNTED LAVATORY
- 4. WALL MOUNTED URINAL AT SAME LOCATION AS (E),
- 5. 18"W X 36"H MIRROR WITH SHELF ABOVE EACH
- 6. STAINLESS STEEL CONVENIENCE SHELF
- 7. SOAP DISPENSER, OFCI
- 8. 24"W X 60"H MIRROR
- 9. UTILITY HOOK
- 10. PARTITION MOUNTED ROBE HOOK MOUNTED ON INSIDE OF EACH STALL. SEE FLOOR PLAN FOR LOCATIONS.
- 11. SEMI-RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- 12. RECESSED SANITARY NAPKIN VENDOR
- 13. NOT USED
- 14. 36" GRAB BAR,  $1-\frac{1}{2}$ " DIAMETER
- 15. 42" GRAB BAR, 1-½" DIAMETER
- 16. FLOOR MOUNTED GRAB BAR,  $1-\frac{1}{2}$ " DIAMETER. SEE DET. 9/A9.1
- 17. NOT USED
- 18. PARTITION MOUNTED COMBINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 1 ACCESSIBLE AND 1 NON-ACCESSIBLE STALL. TOILET TISSUE DISPENSER TO BE CONTINUOUS FLOW TYPE.
- 19. RECESSED COMBINATION SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER. TOILET TISSUE DISPENSER TO BE CONTINUOUS FLOW TYPE.
- 20. GYP. BD. PAINTED. SEE DET. 3/A9.1
- 21. SEE TILE DESIGN FOR TYP. WALL DET. 3/A9.1
- 22. PARTITION MOUNTED COMBINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 2 NON-ACCESSIBLE STALLS. TOILET TISSUE DISPENSER TO BE CONTINUOUS FLOW TYPE.
- 23. ADA WALL MOUNTED URINAL
- 24. (E) WINDOW TO REMAIN

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Architects rchitect Suite 2 CA 950 377-60

Finney Sugimura 155 408- $\sim$ 



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APPL 01 01-110504 ACKW FLS OF SSOLLAND 

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07/07/2009

SUBMITTAL

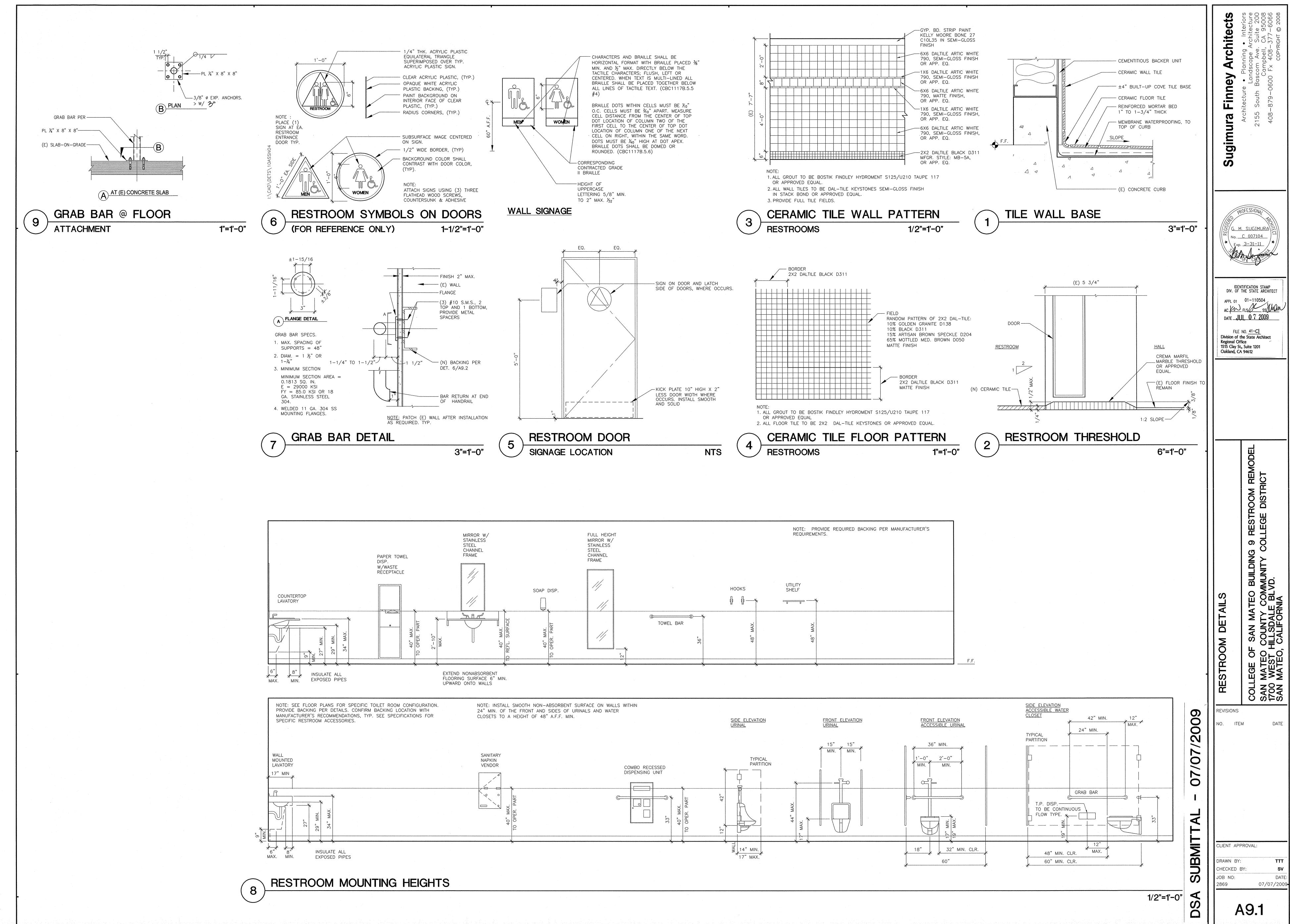
DSA

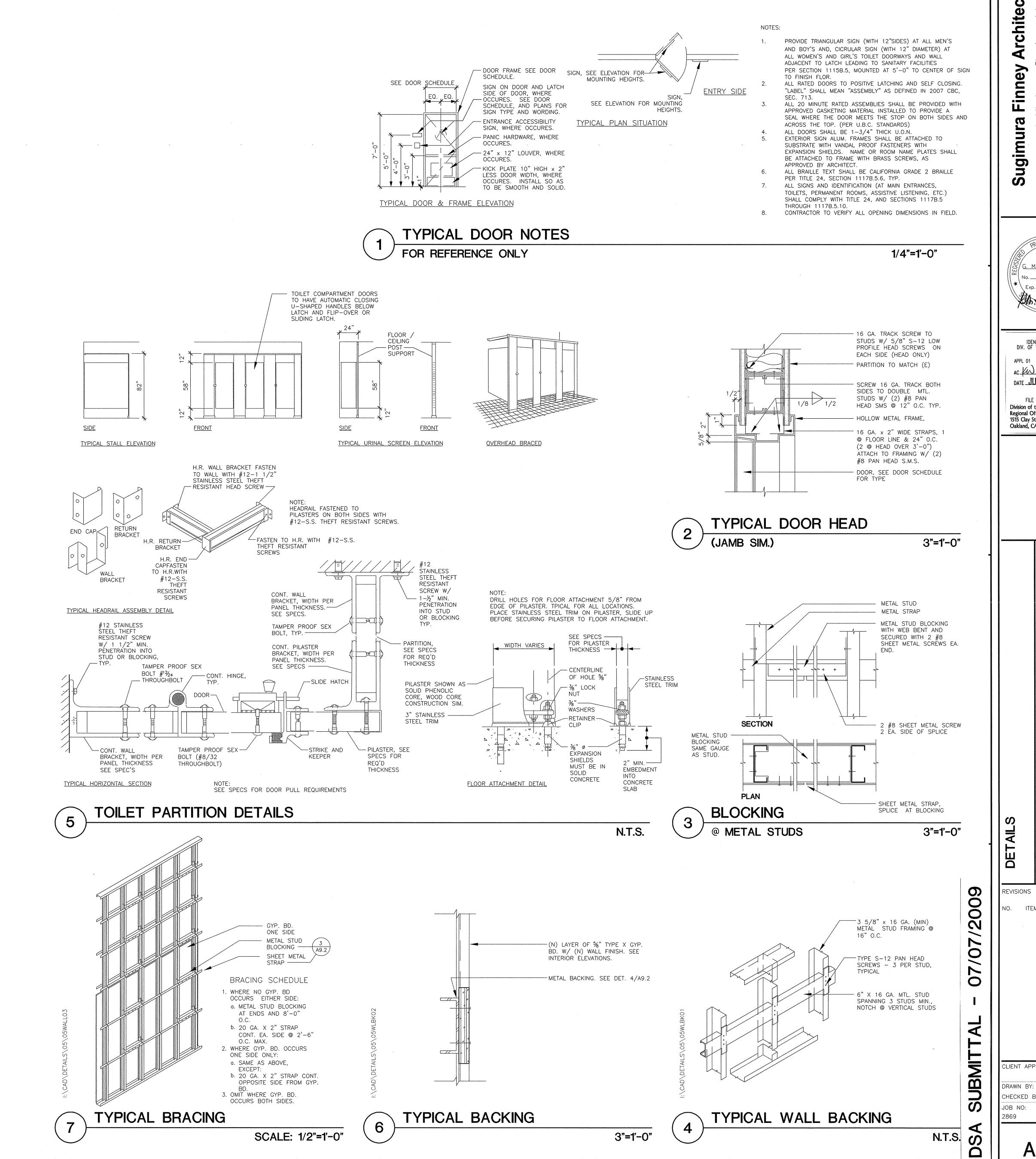
1/4" = 1'-0"

CLIENT APPROVAL:

DRAWN BY: CHECKED BY: JOB NO: 07/07/2009

A8.1





NOTES

METAL STUDS:

2. COMPENSATION

3-5/8" X 20 GA. @ 16" O.C. TYPICAL U.O.N.

14 GA., SIZE TO MATCH STUDS

METAL FRAMING NOTES

5. MINIMUM METAL STUDS PROPERTIES:

REPORT NO. 4943 (SEPT. 2001)

7. ALL STUD TRACK TO CONCRETE SHALL HAVE

3 5/8"

3 5/8"

6. TRACK:

P.A.D. @ 16" O.C.

GAUGE A(IN  $^{2}$ ) Sx(IN  $^{3}$ ) Ix(IN  $^{4}$ )

0.399 0.753

0.511 0.928

0.807 2.510

1.035 3.109

N.T.S.

3 5/8" 20 0.237 0.255 0.482

0.379

0.472

0.641

NOTE: SECTION PROPERTIES ARE BASED ON THE

METAL STUD MANUFACTURER'S ASSOCIATION ICBO

16 GA., SIZE TO MATCH STUDS

Architects

<u>G. M. SUGIMURA\;</u> No. <u>C 007104</u>  $\sum_{\text{Exp.}} \frac{3-31-11}{2}$ 

> IDENTIFICATION STAMP
> DIV. OF THE STATE ARCHITECT APPL 01 01-110504 AC KW FLS AR SS MAM DATE JUL 0 7 2009

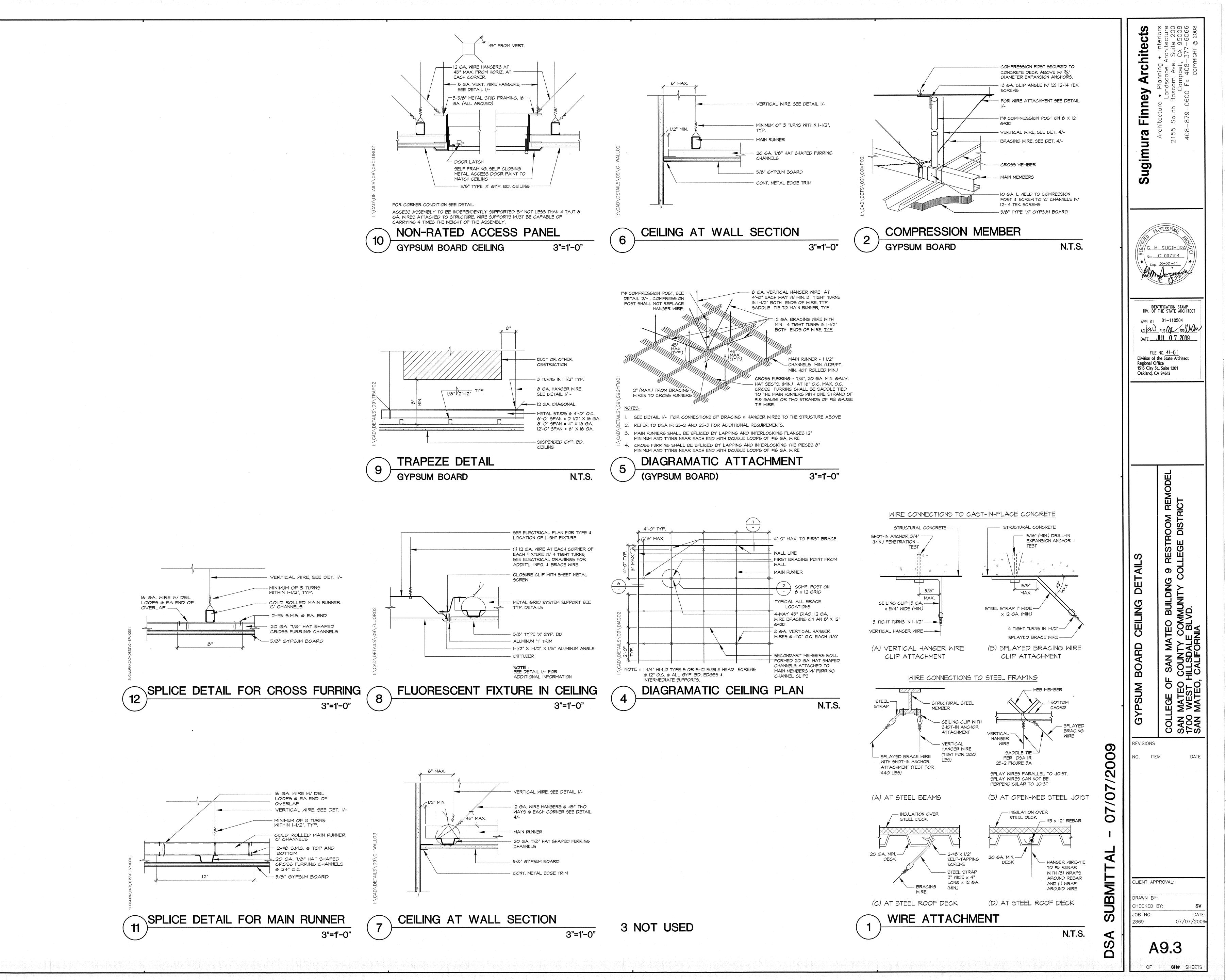
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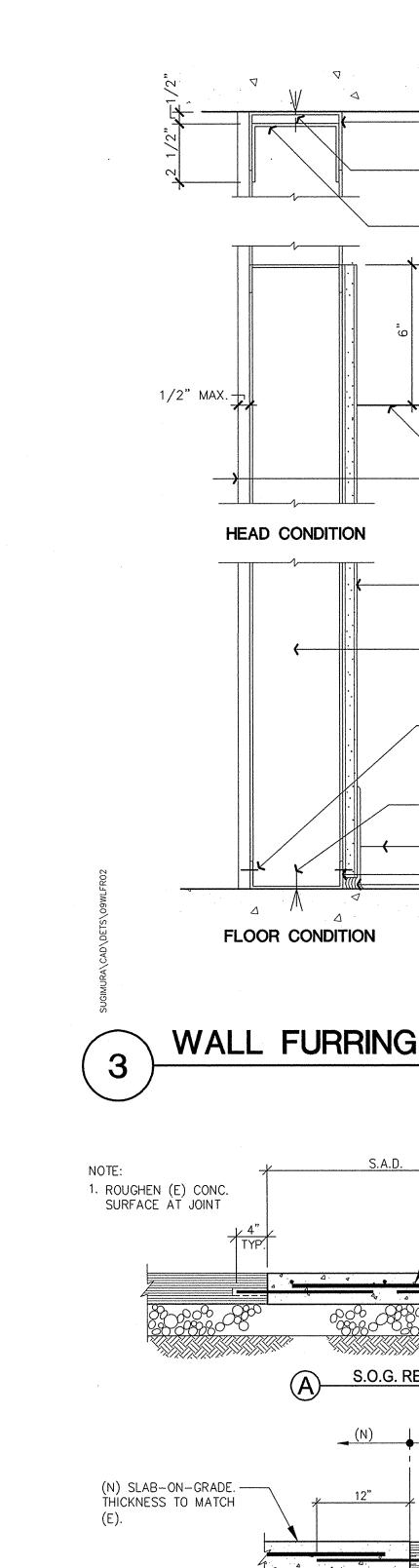
RESTROOM REMODE ග ටූ BUILDING (AMMUNITY COUNTY COUN

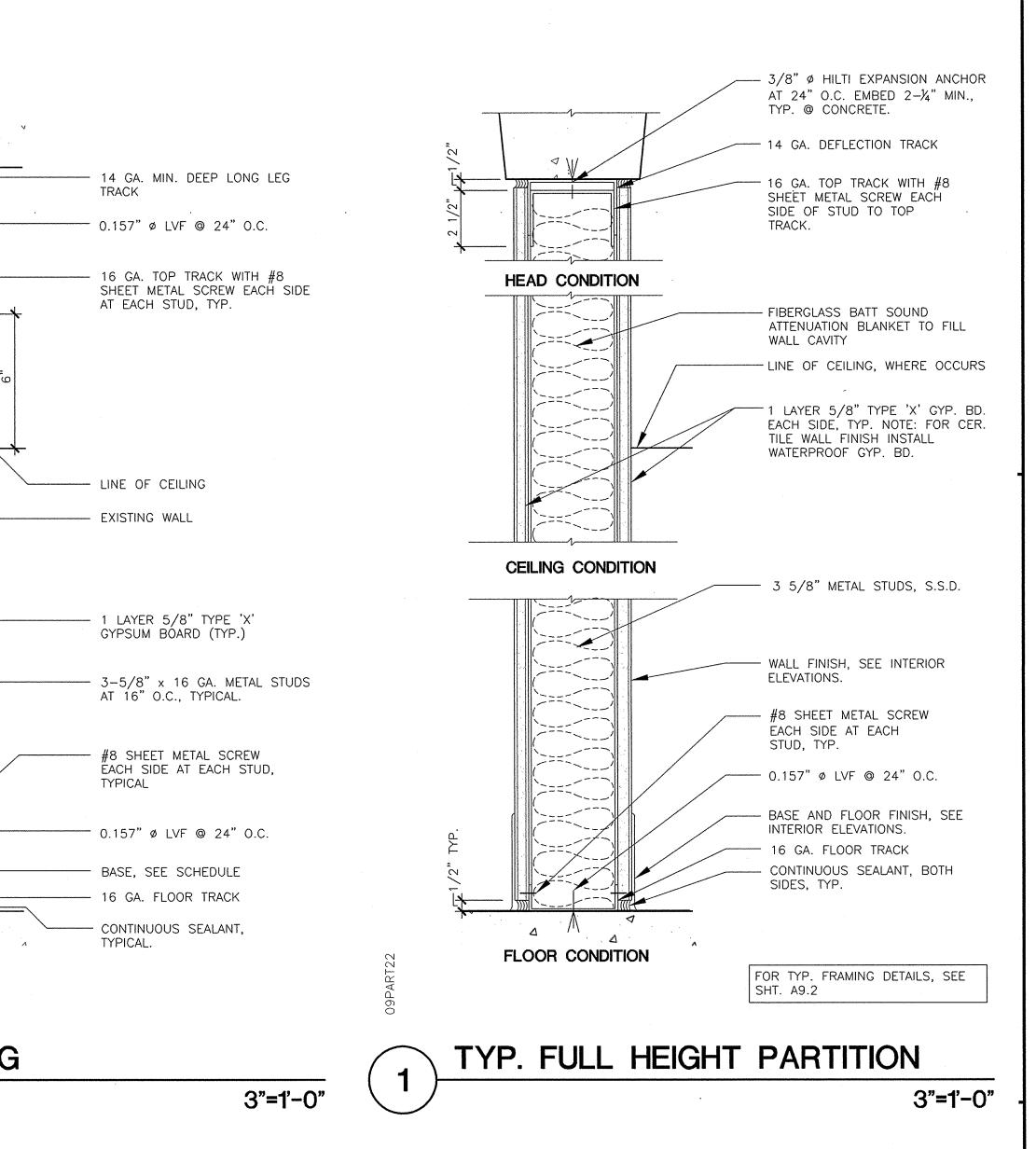
CLIENT APPROVAL:

CHECKED BY: 07/07/200

A9.2







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G. M. SUGIMURA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

AC KW FLS/K SS/MOM

APPL 01 01-110504

DATE JUL 0 7 2009

FILE NO. 41-CI

Division of the State Architect

9 RESTROOM REPOLLEGE DISTRICT

BUILDIN AMUNITY VD.

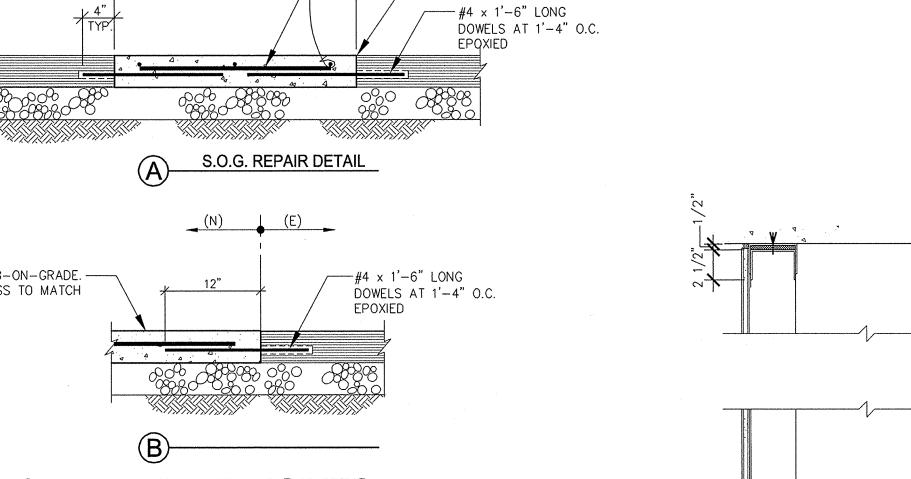
DATE

07/07/2009

SH# SHEETS

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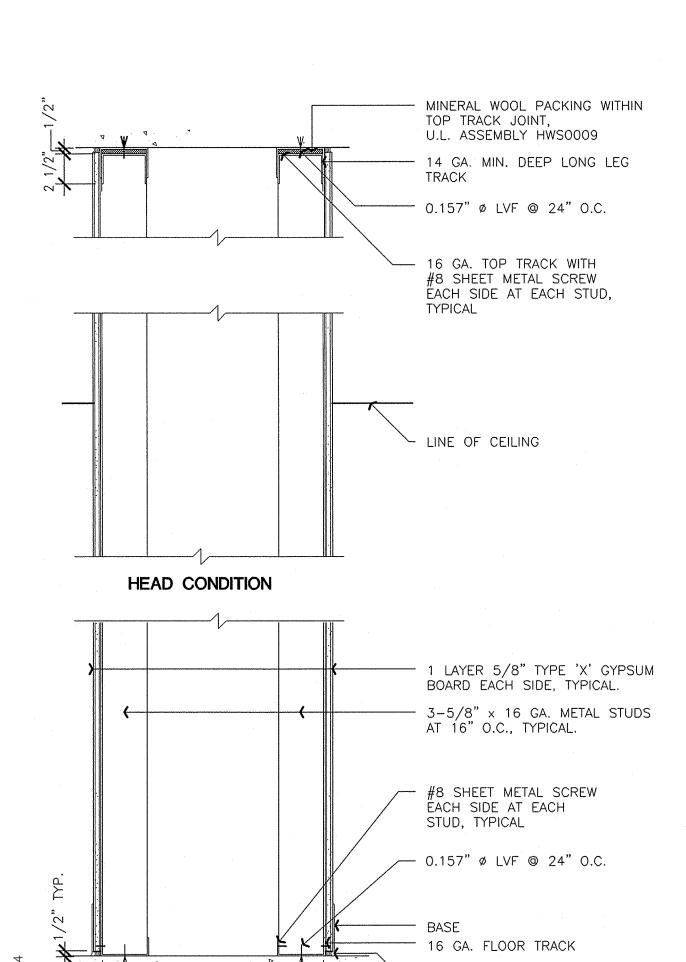


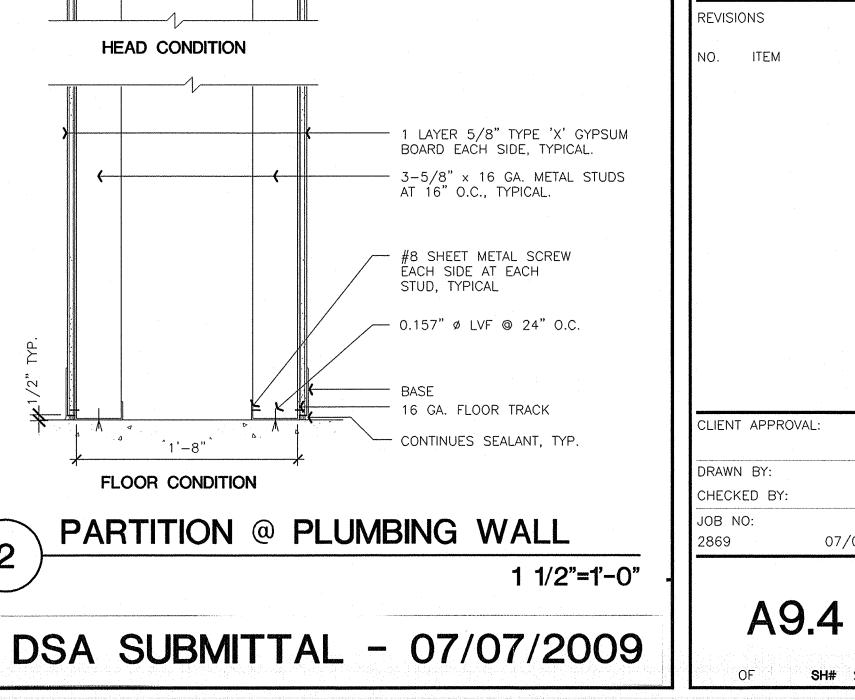
@ (E) CONC. SLAB ON GRADE

-#4 AT 1'-4" O.C. EA.

1"=1'-0"

-SAW CUT. AS REQD.





PENETRATE THE STEEL.

EPOXY DOWELS

A. EPOXY ADHESIVE SHALL BE HILTI HIT-RE 500-SD ADHESIVE ANCHOR (ESR-2322) OR EQUAL PRODUCT. ALTERNATIVE PRODUCTS MUST BE SUBMITTED TO A.O.R. FOR

GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.

D. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITH EXISTING STRUCTURE PREVENT

EPOXIED DOWELS DO NOT SUBSTITUTE FOR HOOKED BARS. CONTRACTOR TO NOTIFY ENGINEER OF EPOXIED DOWEL LOCATIONS.

DISTANCE

10 1/2"

3" 4 1/2"

4" | 6"

\* VALUES ARE FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION.

FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318-05 IS REQUIRED.

\TEST

3,16\\$/#

4,485¥

/8,400# <sup>\</sup>

18" | 6,705#\

24" / 10,140#

SPACING

12"

15"

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION

MIN. WITH f'c= 2,500 PSI CONCRETE (NORMAL WEIGHT CONCRETE) VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD.

5/8"

3/4"

DIAMETER EMBED. EDGE

7/8" | 6" | 9"

1 1/8" | 8" | 12"

A. EXPANSION BOLTS SHALL BE HILTI KWIK-BOLT TZ-CARBON STEEL ANCHOR (ESR-1917) OR

B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE

SECTION 1701 OF THE CBC. (1701A OF THE CBC FOR DSA PROJECTS)

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH

MIN. f'c = 2500 PSI (NORMAL WEIGHT CONCRETE)

DEPTH DISTANCE

5/8" 4" 4 3/4" 6 3/4" 12"

EMBED HOLE EDGE

SEISMIC TENSION LOADS.

VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD.

3/4" 4 3/4" 5 3/4" 9" 13 1/4" 5,850#

LVF-(Low Velocity Fasteners). HILTI, ICC ESR-2269 (11/1/2008)

\* FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION.

A. IN NORMAL WEIGHT CONCRETE: 0.157"~ X-U FASTENER, 1" MIN. EMBEDMENT

B. IN LIGHT WEIGHT CONCRETE: 0.157"~ X-U FASTENER, 1 1/2" MIN. EMBEDMENT

1" MIN. SPACING. THE ENTIRE POINTED PORTION OF L.V.F. MUST COMPLETELY

C. IN STRUCTURAL STEEL: 0.157"~ X-U FASTENER, 1/2" MIN. EDGE DISTANCE,

\*\* TENSION TEST VALUES ONLY AND CORRESPOND WITH 1.5x CRACKED CONCRETE

EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO A.O.R. FOR SUBSTITUTION

D. WHEN EXPANSION ANCHORS ARE USED FOR SILL PLATE BOLTING AWAY FROM THE EDGE, 10%

SPACING

TEST

9 3/4" 3,267#

FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318-05 IS REQUIRED.

VALUE

OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EXPANSION ANCHOR SHALL BE TENSION TESTED. WHEN EXPANSION ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR

1701 OF THE CBC. (1701A OF THE CBC FOR DSA PROJECTS)

DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.

REINF. THREADED / HOLE

/3/4"\

PRIOR TO INSTALLATION PER SPECIFICATIONS.

ANCHOR /

DOWEL ROD

EXPANSION ANCHORS (HILTI)

SPECIFIC ANCHOR.

DSA PROJECTS ONLY)

B. INSTALLATION: INSTALL THE EPOXY ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS

SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.

3" EDGE DISTANCE, MIN. 4" O.C. SPACING.

3" EDGE DISTANCE, MIN. 4" O.C. SPACING.

D. IN CMU: 0.157"~ X-U FASTENER, 1" MIN. EMBEDMENT.

N.T.S.

### GENERAL SEISMIC NOTES

- A. CONTRACTOR TO PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR ALL MECHANICAL EQUIPMENT WEIGHING OVER 400 POUNDS THAT IS DIRECTLY MOUNTED ON THE FLOOR OR ROOF AND ALL MECHANICAL EQUIPMENT WEIGHING OVER 20 POUNDS THAT IS SUSPENDED FROM THE FLOOR, WALL OR SUPPORTED BY VIBRATION ISOLATORS TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA OUTLINED IN THE 2007 CALIFORNIA BUILDING CODE, ASCE 7-05 SECTION 13.3. CONSIDER THE AFFECT OF TEMPERATURE CHANGE IN PREPARATION OF ANCHORAGE AND BRACING DETAILS, PROVIDE ANCHORAGE CALCULATIONS AND DETAILS CERTIFIED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- B. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.
- C. ALL PIPING AND CONDUIT CROSSING BUILDING SEISMIC SEPARATIONS SHALL BE PROVIDED WITH APPROVED FLEXIBLE CONNECTORS.
- D. SHOP DRAWINGS SHOWING ALL BRACING LOCATIONS AND DETAILS OF CONNECTIONS ARE REQUIRED FOR ALL SYSTEMS INCLUDING PRE-APPROVED SYSTEM.
- E. A COPY OF THE BRACING SYSTEMS INSTALLATION MANUAL SHALL BE ON THE JOB SITE PRIOR TO STARTING THE INSTALLATION OF THE HANGERS AND/OR BRACES. SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.
- F. LATERAL SUPPORT FOR PIPES AND DUCTS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ADDITION OF THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS" BY SMACNA.

### GENERAL MECHANICAL NOTES

- A. COORDINATE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH LIGHTING LAYOUT, CEILING TILE PATTERN AND WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- B. PROVIDE MANUAL VC'LUME DAMPERS TO FACILITATE PROPER BALANCE OF THE AIR DISTRIBUTION SYSTEM. VOLUME DAMPER AT DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR AIR BALANCING.
- C. SEAL ALL OPENINGS AROUND PIPING AND DUCTWORK PENETRATING FIRE RESISTIVE RATED WALLS AND FLOORS TO MAINTAIN RATING INTEGRITY.
- D. COORDINATE EXACT LOCATION OF CEILING, WALL OR FLOOR ACCESS PANELS FOR FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPERS AND VOLUME DAMPERS WITH ARCHITECT.
- E. COORDINATE LOCATION OF CEILING ACCESS PANEL FOR EACH FURNACE LOCATED IN THE NON-DEMOUNTABLE CEILING AREA.
- F. FLEXIBLE SUPPLY DUCT LENGTH SHALL BE MAXIMUM 5'-0". MINIMUM RADIUS SHALL BE 1.5 TIMES DIAMETER OF DUCT.
- G. PROVIDE MANUAL VOLUME DAMPER REMOTE REGULATOR AT INACCESSIBLE CEILING. SIMILAR TO YOUNG REGULATOR.
- H. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- I. PROVIDE ACCESS DOOR FOR ALL EQUIPMENT, VALVES AND CLEANOUTS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING, AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS. OPENINGS SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND ADJUSTMENT OF
- J. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST
- K. PITCH PIPELINES AS REQUIRED FOR PROPER DRAINAGE AND ELIMINATION OF AIR.
- L. MANUFACTURERS NAMES FOR PRODUCTS LISTED ON DRAWINGS ARE BASIS OF DESIGN. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.
- M. THE PROJECT DESIGN SHOWN ON THE DRAWINGS AND SPECIFIC ITEMS REFERENCED IN THE SPECIFICATIONS IS IN COMPLIANCE WITH THE CODES AND ORDINANCES LISTED IN DIVISION 23 SPECIFICATIONS.
- N. PROVIDE SEISMIC ANCHORAGE AND BRACING FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. SEE "GENERAL SEISMIC NOTES" FOR DETAIL REQUIREMENTS.
- O. COORDINATE WITH DIVISION 16 CONTRACTOR FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR COMBINATION FIRE/SMOKE DAMPERS.
- P. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE THE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- Q. PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY COORDINATION BETWEEN TRADES.
- R. KEEP CUTTING TO THE MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF WORK. NO CUTTING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE ARCHITECT.
- S. PROVIDE OFFSETS, ELBOWS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED AT NO
- T. VERIFY ALL CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS, PROVIDE TRANSITIONS FOR FINAL CONNECTION TO EQUIPMENT. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF
- U. VERIFY DIFFUSERS, GRILLS, AND REGISTER MOUNTING FRAME TYPES WITH CEILING TYPE AND
- V. PROVIDE DUCT ACCESS DOORS FOR FIRE/SMOKE DAMPERS AND SMOKE DETECTORS.
- W. PAINT FLAT BLACK THE INSIDE OF ALL DUCT WORK VISIBLE THROUGH DIFFUSERS, GRILLES, AND
- X. FIRE-SAFE PIPE AND DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL PENETRATION AND FIRE-SAFING REQUIREMENTS.
- Y. INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND HARDWARE AS REQUIRED.
- Z. PROVIDE HANGER, SUPPORT AND SWAY BRACES FOR ALL DUCTWORK, PIPING AND EQUIPMENT AS REQUIRED BY THE LATEST EDITION OF THE SMACNA GUIDELINES.
- AA. DUCT SYSTEMS SHALL BE BALANCED TO CFM ON DRAWINGS. FANS SHALL BE FIELD TESTED TO PROVED COMPLIANCE WITH SCHEDULED FAN PERFORMANCE, AIR FLOW AT DESIGN STATIC
- AB. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS IN THE EVENT OF

A CONFLICT BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT

- AC. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC, AND SHALL NOT BE SCALED TO DETERMINE
- THE EXACT LOCATIONS OF THE PIPING OR DUCTWORK. AD. PROVIDE UNIONS OR FLANGES AT EACH SIDE OF CONTROL VALVES. EVERY PIPING ASSEMBLY SHALL BE MADE SUCH THAT EVERY VALVE AND EVERY PIECE OF EQUIPMENT IS EASILY
- REMOVABLE. WELDED OR SOLDERED-JOINT VALVES ARE EXEMPT FROM THIS REQUIREMENT. AE. PROVIDE 1-IN AIR GAP AT ALL DRAIN CONNECTIONS.

## SHEET INDEX

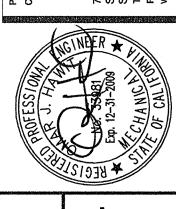
- MO.1 MECHANICAL SYMBOL LIST, GENERAL NOTES & SHEET INDEX
- M2.1 PARTIAL GROUND LEVEL FLOOR PLANS MECHANICAL
- M3.1 MECHANICAL SCHEDULES AND DETAILS

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DIV. OF THE STATE ARCHITECT DATE JUL 0 7 2009

FILE NO. 41-C Division of the State Architect Regional Office 1515 Clay St., Suite 1201 Osidand, CA 94612

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REVISIONS

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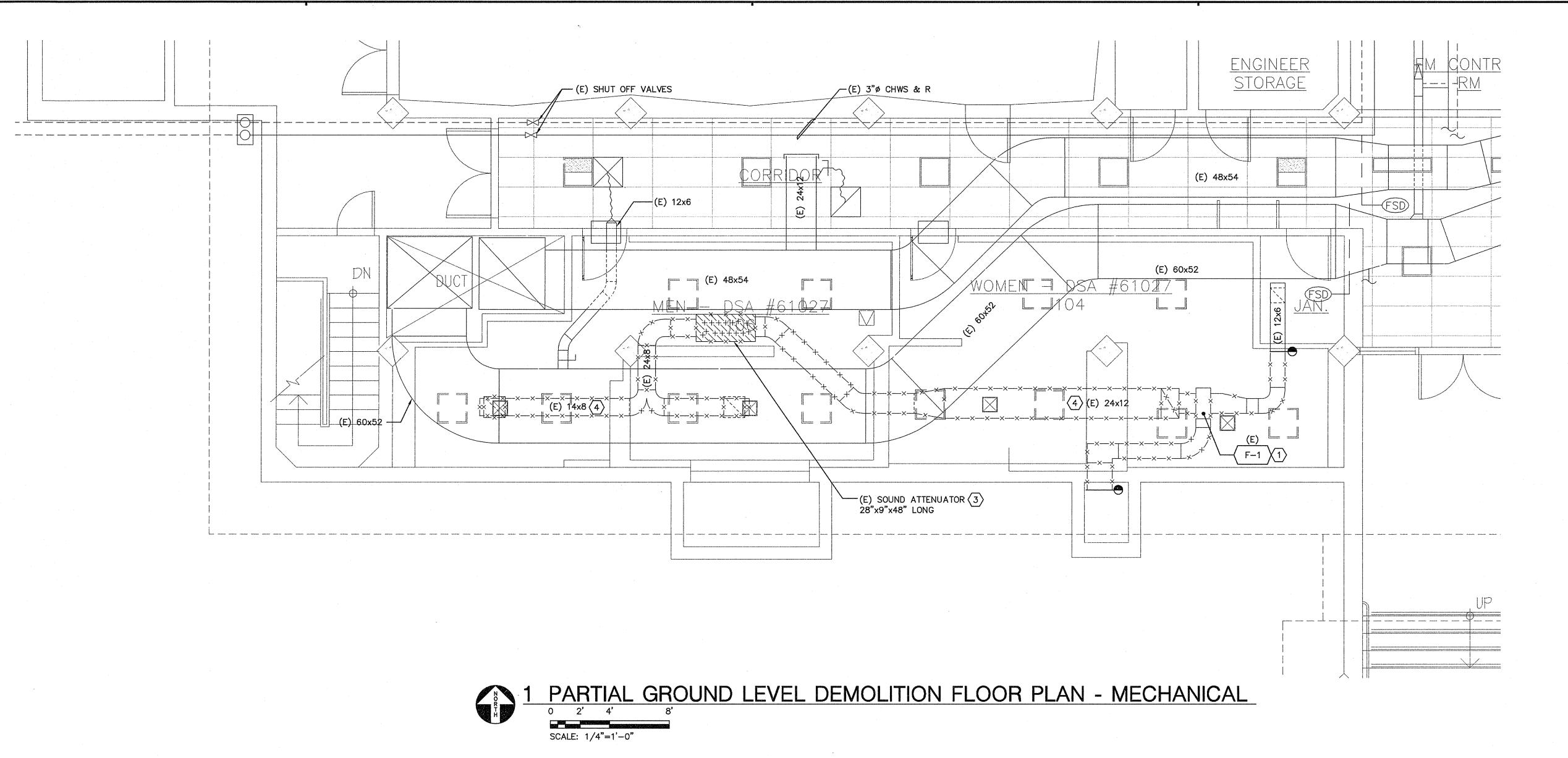
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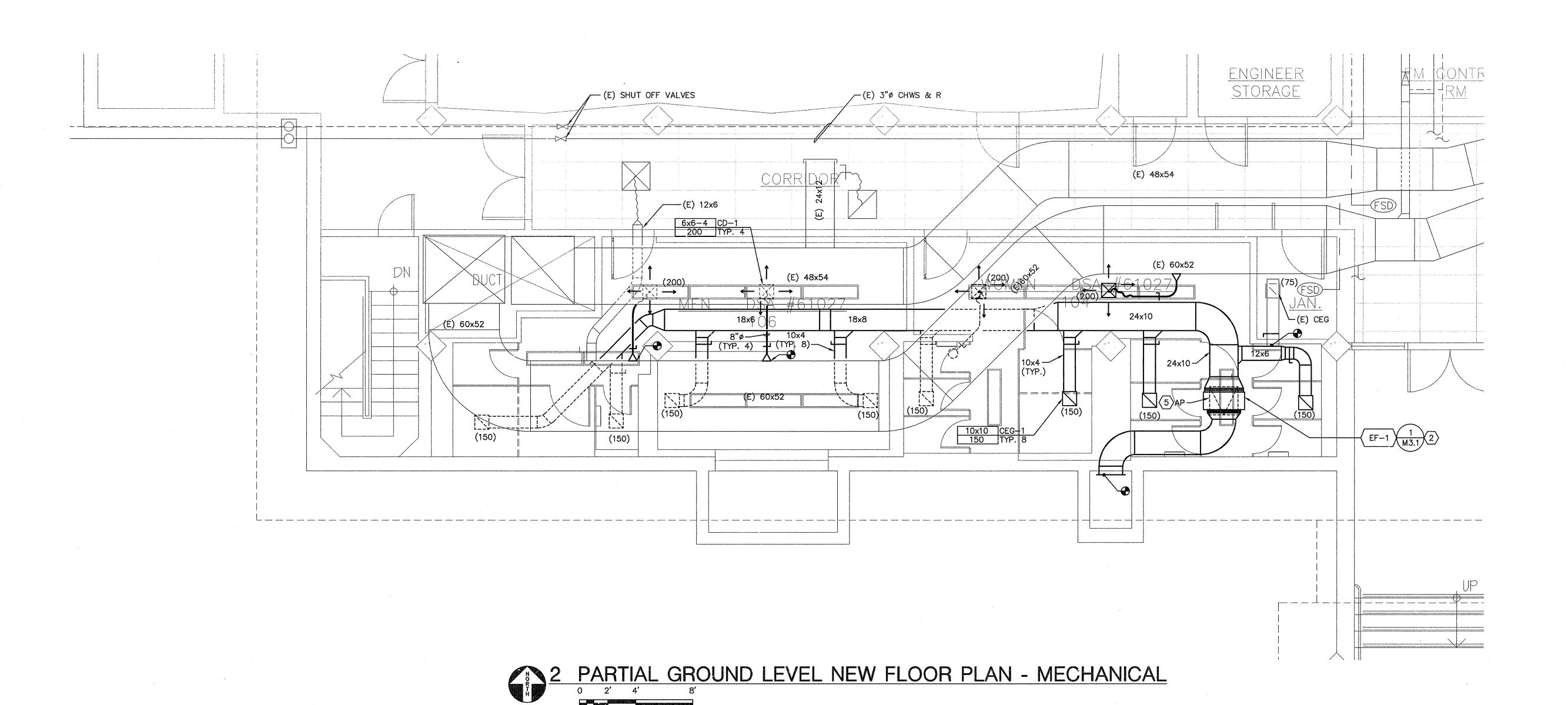
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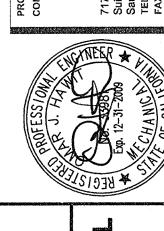


### SHEET KEYNOTES

- 1 REMOVE EXISTING EXHAUST FAN.
- 2 PROVIDE NEW EXHAUST FAN TO REPLACE EXISTING UNIT.
- REMOVE EXISTING SOUND ATTENUATOR.
- DEMOLISH DUCTWORK, HANGERS, SUPPORTS AND APPURTENANCES TO POINT OF DEMOLITION AS SHOWN (TYPICAL).
- PROVIDE ACCESS PANEL ADEQUATE FOR SERVICE AND MAINTENANCE OF NEW EXHAUST FAN. COORDINATE EXACT LOCATION WITH OTHER TRADES.

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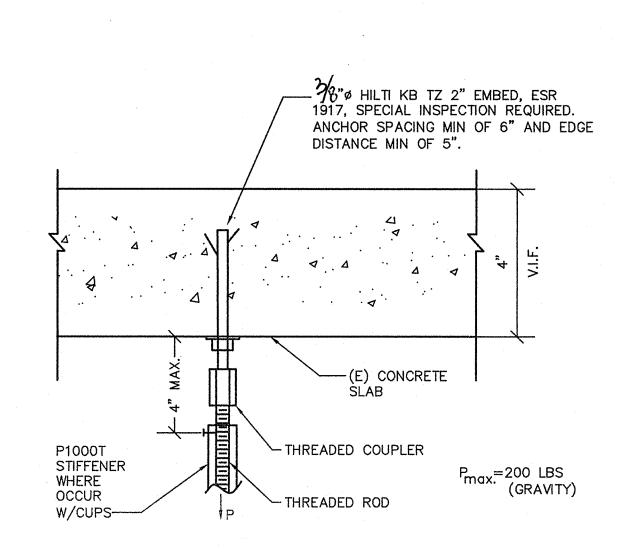
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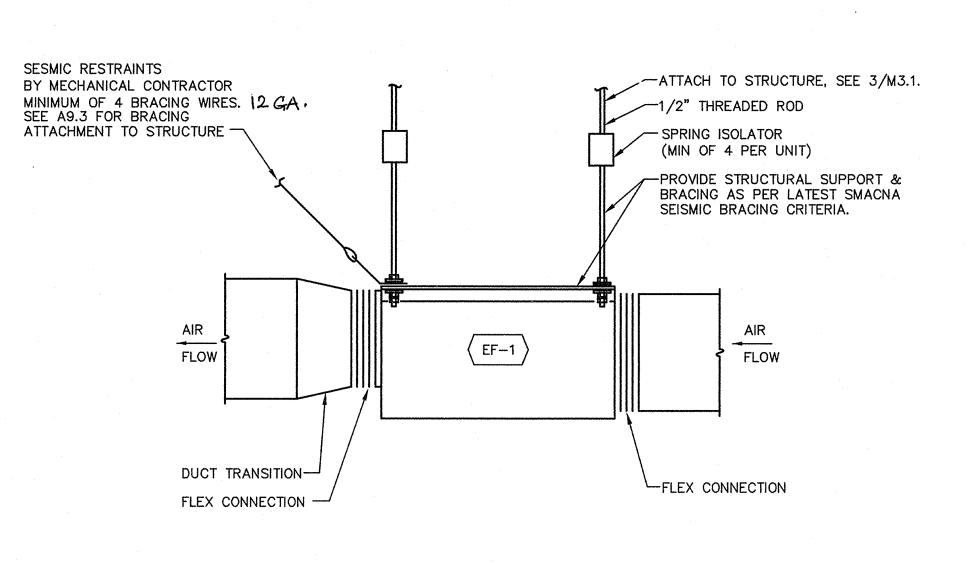
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	FAN SCHEDULE												
SYMBOL	AREA SERVED	TYPE	DRIVE	AIR FLOW (CFM)	T.S.P. (INH20)	MAX RPM	SOUND (SONES)	BASIS OF DESIGN	MAX. WT. (LBS)	ELECTF VOLT/PH	NCAL WATTS	CONTROL	REMARKS
EF-1	TOILETS	IN-LINE CABINET	DIRECT	1,275	0.60	1,100	4	GREENHECK CSP-A2150	80	115/1	735	BMS SCHEDULE	SEE NOTES
NOTES:	<ol> <li>PROVIDE STARTER AND DIS</li> <li>TIE TO DDC SYSTEM.</li> </ol>	CONNECT.											

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	REMARKS
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	SEE PLANS	NONE	WHITE	TITUS PAR 12x12	SEE NOTES
CD-1	CEILING SUPPLY DIFFUSER	PERFORATED	SEE PLANS	NONE	WHITE	TITUS PSS 12x12	SEE NOTES
NOTES: 1	. COORDINATE EXACT LOCATION WITH	•	HTING AND OTHER T	RADES.			



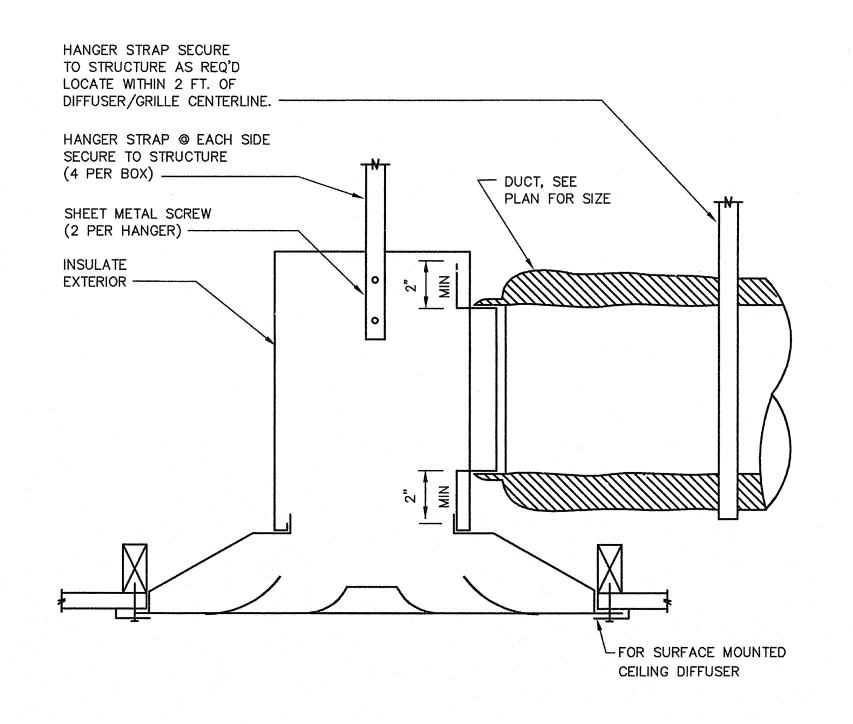
3 ATTACHMENT TO STRUCTURE



NOTE:

1. PROVIDE SEISMIC BRACING FOR EXHAUST FAN. SEE
SPECIFICATIONS FOR SEISMIC DESIGN CRITERIA.

## EXHAUST FAN SUPPORT DETAIL



2 CEILING SUPPLY AND EXHAUST CONNECTION DETAIL

REVISIONS

07/07/2009

M3.1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

FILE NO. 41-C1
Division of the State Architect
Regional Office
1515 Clay St., Suite 1201
Oxidand, CA 94612

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# PLUMBING SYMBOL LIST

HORSE POWER

is is a standar	d list and not all symbols and abbreviatio	ns may be used.	
	VALVES		PIPING SYSTEMS
<b>─</b>	VALVE, GENERAL		COLD WATER PIPING
<del>-</del>			HOT WATER RIPING
<del></del>	VALVE		HOT WATER PIPING
——————————————————————————————————————	GATE VALVE		HOT WATER RETURN PIPING
<del> </del>	PRESSURE REDUCING VALVE	ESTATION AND THE STATE OF THE S	WASTE PIPING BELOW GRADE OR FINISHED FLOOR
X	MOTORIZED, 2-WAY VALVE		WASTE PIPING ABOVE GRADE OR FINISHED FLOOR
— <del>-</del> 7—	CHECK VALVE		FINISHED FLOOR
——ф——	QUARTER TURN VALVE	SD	STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
<b></b> ⊳⊲	GLOBE VALVE	- — SD — -	STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
→ <del>BV</del>	BALANCING VALVE		WASTE VENT PIPING
——————————————————————————————————————	MOTORIZED, 3-WAY VALVE		ABBREVIATIONS
• • • • • • • • • • • • • • • • • • •	<u>FITTINGS</u>	AD	AREA DRAIN
	PIPE RISE	AFG	ABOVE FINISHED GRADE
		AFF	ABOVE FINISHED FLOOR
	PIPE DROP	BFP	BACKFLOW PREVENTER
<b></b>	TEE UP ON PIPE	BFF	BELOW FINISHED FLOOR
_	TEE DOWN ON DIDE	CD	CONDENSATE DRAIN
	TEE DOWN ON PIPE	CF	CUBIC FOOT
	CONTINUATION	CFH	CUBIC FEET PER HOUR
	CAP	CL	CENTERLINE
	· .	CLG	CEILING
	UNION	CONT.	CONTINUATION
	PIPE BELOW GRADE	CV	CHECK VALVE
, ,	E DELOTE ONADE	CW	COLD WATER
<del></del>	PIPE REMOVED IN DEMOLITION	DIA	DIAMETER
<del></del>	CONCENTRIC REDUCER	DN (F)	DOWN
	ONOLININO ILLUOCEN	(E) EL	ELEVATION
	ECCENTRIC REDUCER	ELECT	ELECTRICAL
	FLOW DIRECTION	FC	FLEXIBLE CONNECTOR
-		FPS	FEET PER SECOND
	HOSE BIBB	FS	FLOW SWITCH
——————————————————————————————————————	PUMP	FT	FEET
wco		GAL	GALLONS
	WALL CLEANOUT	GPH	GALLONS PER HOUR
φ <sub>FCO</sub>	FLOOR CLEANOUT	GPM	GALLONS PER MINUTE
		НВ	HOSE BIBB
<b>Ⅲ</b> <u>CB</u>	CATCH BASIN	HD	HEAD
⊕ <u>FD</u>	FLOOR DRAIN	HUD	HUB DRAIN
		מנו	HODGE DOWED

FILE: 0003P01.DWG - P01 | EDIT: 6/30/2009 11:28 AM BY OMARH | PLOT: 7/1/2009 5:10 PM BY OMAR HAWIT

FLOOR SINK

HEATER	
HOT WATER	
HOT WATER RETURN	
INSIDE DIAMETER	
INVERT ELEVATION	
INCHES	
LAVATORY	
POUNDS	
THOUSAND BTU'S PER HOUR	
MINIMUM	
NEW	
NOT APPLICABLE	
NOT IN CONTRACT	
NUMBER	
NORMALLY OPEN	
NOT TO SCALE	
OUTSIDE DIAMETER	
PUMP	
PLUMBING & DRAINAGE INSTITUTE	
PRESSURE REDUCING VALVE	
POUNDS PER SQUARE INCH	
ROOF DRAIN	
ROOF CEPTOR	
RETURN	
RAIN WATER LEADER	
SQUARE FEET	
SHUT OFF VALVE	
TEMPERATURE	
TRAP PRIMER PIPING	
TRAP PRIMER VALVE	
URINAL	
UNIT HEATER	
VENT	
VACUUM	
VENT THRU ROOF	
WASTE	
WITH	
WATER CLOSET	
WATER HAMMER ARRESTOR	

POLISHED NICKEL BRONZE STRAINER. STANDARD SCREWS.  IRAP PRINER CONNECTION.  J.R. SMITH 2005—A  HB—1  HOSE BIBB: WALL FAUCET, INSIDE USE, WITH E27JKCP INTEGRAL VACUUM BREAKER, POLISHED CHROME, LOOSE KEY HANDLE 293—6, CHICAGO—293—CP  L—1  LAYATORY: WALL HUNG, VITREOUS CHINA, 20—3/4 IN. BY 18—3/4 IN., FRONT OVERFLOW, ANTI—BACKSPLASH. KOHLER K—202 "GREENWICH" WITH 4 IN. CENTER FAUCET HOLES. FITTINGS: K8998 1—1/4 IN. BY 1—1/2 IN. P—TRAP. SUPPLIES AND STOPS. FAUCET: SYMMONS S—60—C—H METERING/SELF—CLOSING TYPE, 4 IN. CENTERS, ADJUSTABLE SLOW CLOSING, TEMPERATURE LIMIT STOP, IN—LINE CHECK/SCREEN ASSEMBLIES, 0.5 GPM AERATOR, GRID STRAINER, CHROME.  L—2  SAME AS L—1 EXCEPT FOR ADA COMPLIANT & PROVIDE INSULATION KIT TO P—TRAP AND SUPPLIES. SEE SPECIFICATIONS.  TPV—1  TRAP PRIMER  MIFAB TRAP SEAL PRIMER MODEL MR—500 SERIES  U—1  URINAL: SIPHON JET, VITREOUS CHINA, WALL MOUNTED, HIGH EFF. URINAL SYSTEM 3/4 IN. TOP SPUD. ZURN 25798 FLUSH VALVE: 0.125 GAL. PER FLUSH, TOP SPUD. (INFRARED SENSOR/PATTERY) CARRIER: FLOOR MOUNTED. J.R. SMITH 0600 SERIES URINAL SUPPORT WITH SUPPORTING STUDS AND BOTTOM BEARING PLATE.  U—2  SAME AS U—1  EXCEPT ADA COMPLIANT  WC—1  WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1—1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT STANDARD. KOHLER K—4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY—DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.	2" 1/2"	1-1/2"			SYMBOL
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IN-LINE CHECK/SCREEN ASSEMBLIES, 0.5 GPM AERATOR, GRID STRAINER, CHROME.  L-2 SAME AS L-1 EXCEPT FOR ADA COMPLIANT & PROVIDE INSULATION KIT TO P-TRAP ADA AND SUPPLIES. SEE SPECIFICATIONS.  TPV-1 TRAP PRIMER MIFAB TRAP SEAL PRIMER MODEL MR-500 SERIES  U-1 URINAL: SIPHON JET, VITREOUS CHINA, WALL MOUNTED, HIGH EFF. URINAL SYSTEM 3/4 IN. TOP SPUD. ZURN Z5798 FLUSH VALVE: 0.125 GAL. PER FLUSH, TOP SPUD. (INFRARED SENSOR/BATTERY) CARRIER: FLOOR MOUNTED. J.R. SMITH 0600 SERIES URINAL SUPPORT WITH SUPPORTING STUDS AND BOTTOM BEARING PLATE.  U-2 SAME AS U-1 EXCEPT ADA COMPLIANT  WC-1 WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT STANDARD. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.	2" 1/2"	1		RS,	
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AND SUPPLIES. SEE SPECIFICATIONS.  TPV-1  TRAP PRIMER MIFAB TRAP SEAL PRIMER MODEL MR-500 SERIES  U-1  URINAL: SIPHON JET, VITREOUS CHINA, WALL MOUNTED, HIGH EFF. URINAL SYSTEM 3/4 IN. TOP SPUD. ZURN Z5798 FLUSH VALVE: 0.125 GAL. PER FLUSH, TOP SPUD. (INFRARED SENSOR/BATTERY) CARRIER: FLOOR MOUNTED. J.R. SMITH 0600 SERIES URINAL SUPPORT WITH SUPPORTING STUDS AND BOTTOM BEARING PLATE.  U-2  SAME AS U-1 EXCEPT ADA COMPLIANT  WC-1  WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT STANDARD. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.	2" 1/2"				
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MIFAB TRAP SEAL PRIMER MODEL MR-500 SERIES  U-1  URINAL: SIPHON JET, VITREOUS CHINA, WALL MOUNTED, HIGH EFF. URINAL SYSTEM 3/4 IN. TOP SPUD.  ZURN Z5798  FLUSH VALVE: 0.125 GAL. PER FLUSH, TOP SPUD. (INFRARED SENSOR/BATTERY)  CARRIER: FLOOR MOUNTED.  J.R. SMITH 0600 SERIES URINAL SUPPORT WITH SUPPORTING STUDS AND BOTTOM BEARING PLATE.  U-2  SAME AS U-1  EXCEPT ADA COMPLIANT  WC-1  WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT STANDARD. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					ADA
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EXCEPT ADA COMPLIANT  WC-1  WATER CLOSET: WALL HUNG, SIPHON JET ACTION,  VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR  EXPOSED FLUSH VALVE, BOLT CAPS.  MOUNTING HEIGHT STANDARD.  KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					
WC-1 WATER CLOSET: WALL HUNG, SIPHON JET ACTION,  VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR  EXPOSED FLUSH VALVE, BOLT CAPS.  MOUNTING HEIGHT STANDARD.  KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.	2"   3/4"   .	1-1/2"	2"   1-1		U-2
VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS.  MOUNTING HEIGHT STANDARD.  KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					***
VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS.  MOUNTING HEIGHT STANDARD.  KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.	1-1/2"	2"	4" 2		WC-1
MOUNTING HEIGHT STANDARD.  KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.		_			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MOUNTING HEIGHT STANDARD.  KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					
KOHLER K-4330 "KINGSTON"  SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC,  STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					
SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					
STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.					
FLUSH VALVE: 1.6 GAL. PER FLUSH DOWN/1.1 GAL. PER FLUSH UP, TOP SPUD.				PIID	
SLOAN WES-111 (MANUAL OPERATION)				. 05.	
CARRIER: J.R. SMITH 0200 SERIES OR EQUAL.					
WC-2 WATER CLOSET: WALL HUNG, SIPHON JET ACTION, 4" 2"	1-1/2" .	2"	4" 2		WC-2
ADA VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR					1
EXPOSED FLUSH VALVE, BOLT CAPS.					
MOUNTING HEIGHT ADA COMPLIANT.	, 1				
KOHLER K-4330 "KINGSTON"					Normalian
SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY—DUTY PLASTIC,					
					***************************************
STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C.				DLID	
FLUSH VALVE: 1.6 GAL. PER FLUSH DOWN/1.1 GAL. PER FLUSH UP, TOP SPUD.				ruu.	
SLOAN WES-111 (MANUAL OPERATION)  CARRIER: J.R. SMITH 0200 SERIES OR EQUAL.		,	1		Parky representation

### GENERAL PLUMBING NOTES

- A. REPORT TO ARCHITECT, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER PROVISION OF THIS WORK.
- B. THE SUBMISSION OF BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF WORK. THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE, CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL IN THE BID PROPOSAL INCLUDE ALL LABOR AND MATERIAL REQUIRED TO COMPLETE THE SYSTEM.
- C. CONTRACTOR SHALL COMPLETE THE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE.
- D. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.
- E. PROTECT EXISTING BUILDING STRUCTURES, AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH EXISTING WORK DAMAGED BY WORK UNDER THIS DIVISION TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.
- F. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- G. ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS, OR LACK OF COORDINATION WITH OTHER TRADES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER AND IS SUBJECT TO REVIEW BY THE ARCHITECT.
- H. ALL FLOOR DRAIN TRAPS WILL BE PRIMED TO PROVIDE WATER SEAL FOR PREVENTION OF DRYING AND PREVENTION OF FUMES EXITING UP THROUGH DRAINS.
- I. INSULATE HOT WATER PIPING SUPPLY AND RETURN. INSULATE COLD WATER PIPING LOCATED EXPOSED IN TEMPERED ROOMS, IN CRAWL SPACE OR ATTIC AREA, AND EXPOSED OUTSIDE UNDER OVERHANGS. PIPING EXPOSED TO RAIN SHALL BE INSULATED WITH CLOSED CELL INSULATION, ALUMINUM JACKET INSULATION SHALL BE PAINTED TO MATCH THE SURROUNDING, AS APPROVED PER ARCHITECT IN SUBMITTAL.
- J. FOR PIPES PENETRATING WALL, PROVIDE ESCUTCHEON ALL EXPOSED LOCATIONS.
- K. COORDINATE WITH FLOOR, CEILING AND WALL CONSTRUCTION TRADE TO PROVIDE ACCESS PANEL FOR ALL VALVES AND OTHER EQUIPMENT REQUIRING ACCESS.

### GENERAL DEMOLITION NOTES

- A. COORDINATE DEMOLITION, CUTTING PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.
- B. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF
- C. CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOOR TO ACCOMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE WORK FOR EACH TRADE.
- VERIFY AND COORDINATE EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE, EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED. CONTRACTOR SHALL REPOUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE. EXISTING PIPING SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.
- E. REMOVE EXISTING FIXTURES, CLEAN AND RE-CONNECT TO EXISTING SERVICES AFTER NEW WALL AND/OR COUNTER FINISHES HAVE BEEN INSTALLED, COORDINATE LOCATION OF EACH FIXTURE WITH ARCHITECT.

### GENERAL SEISMIC NOTES

- A. CONTRACTOR TO PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR ALL MECHANICAL EQUIPMENT WEIGHING OVER 400 POUNDS THAT IS DIRECTLY MOUNTED ON THE FLOOR OR ROOF AND ALL MECHANICAL EQUIPMENT WEIGHING OVER 20 POUNDS THAT IS SUSPENDED FROM THE FLOOR, WALL OR SUPPORTED BY VIBRATION ISOLATORS TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA OUTLINED IN THE 2007 CALIFORNIA BUILDING CODE, ASCE 7-05 SECTION 13.3. CONSIDER THE AFFECT OF TEMPERATURE CHANGE IN PREPARATION OF ANCHORAGE AND BRACING DETAILS, PROVIDE ANCHORAGE CALCULATIONS AND DETAILS CERTIFIED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- B. PIPING SHALL BE SUPPORTED AND BRACED WITH ONE OF THE FOLLOWING SEISMIC RESTRAINT SYSTEMS:
- 1. THE SMACNA GUIDELINES OF THE SEISMIC RESTRAINT OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS.
- 2. NUSIG SEISMIC SUPPORT DEVICES.
- 3. THE SUPERSTRUT SEISMIC RESTRAINT SYSTEM. 4. THE B-LINE SEISMIC RESTRAINT SYSTEM
- C. FIRE PROTECTION PIPING
- 1. THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH
- THE LATEST EDITION OF NFPA 13.
- 2. PROVIDE ANCHORAGE DETAILS AND CALCULATIONS OF THE CONNECTION OF SWAY BRACING TO THE STRUCTURE. 3. DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER TABLE 4-6.4.3.5.2 OF NFPA 13, 1994 EDITION.
- 4. WHERE APPLICABLE DETAILS FOR THE SUPPORT AND BRACING MAY BE PER ITEM B ABOVE.
- 5. ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHAL AND MECHANICAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- D. CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED FOR PIPING SUPPORTS AND BRACING SHOWING:
  - 1. LOCATION OF SEISMIC BRACING.
  - 2. REACTION FORCES TO THE SUPPORTING STRUCTURE. MANUFACTURER'S DESIGNATION OF SUPPORT DEVICES.
- E. SEISMIC BRACING POINTS SHALL BE SUBMITTED ON CONTRACTOR'S COORDINATED SHOP DRAWINGS.

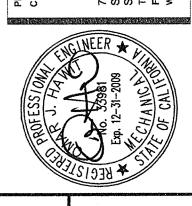
### SHEET INDEX

- PO.1 PLUMBING SYMBOL LIST, GENERAL NOTES, SCHEDULES, & SHEET INDEX
- P2.1 PARTIAL GROUND LEVEL FLOOR PLANS PLUMBING
- P3.1 PLUMBING DETAILS

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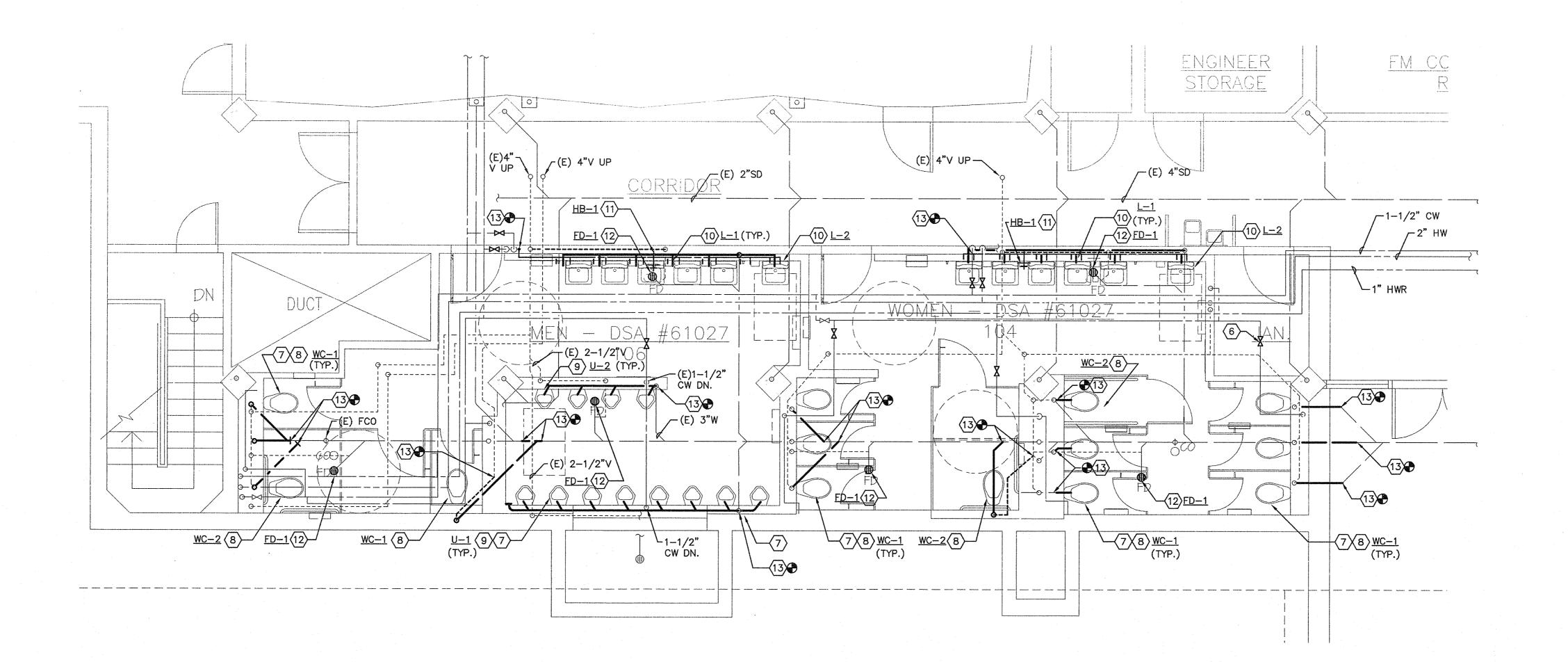
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CLIENT APPROVAL CHECKED BY: 07/07/2009

# 1 PARTIAL GROUND LEVEL DEMOLITION FLOOR PLAN - PLUMBING



PARTIAL GROUND LEVEL NEW FLOOR PLAN - PLUMBING SCALE: 1/4"=1'-0"

### SHEET KEYNOTES

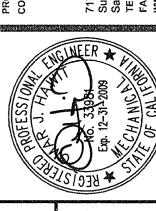
- REMOVE (E) WALL MOUNTED WATER CLOSET INCLUDING CARRIER, FLUSHOMÈTER VALVE, TOILET SEAT AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE
- 2 REMOVE (E) URINAL INCLUDING STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- REMOVE (E) WALL MOUNTED LAVATORY INCLUDING DRAIN, P-TRAP, SUPPLY TUBING, STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL. PATCH HOLE TO MATCH (E) WALL.
- 4 REMOVE (E) FD.
- 5 REMOVE (E) HOSE BIBB.
- 6 PROVIDE LINE SIZE SHUT-OFF, TYP.
- 7 PROVIDE WHA (SIZE/PDI STANDARD) W/ AP.
- 8 PROVIDE 4"W, 2"V, & 3/4"CW FOR EACH WC-1 AND WC-2. PROVIDE NEW CARRIERS AS SPECIFIED. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- 9 PROVIDE 2"W, 1-1/2V, & 3/4"CW FOR EACH U-1 AND U-2. PROVIDE NEW CARRIERS AS SPECIFIED. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- PROVIDE 1-1/2"W, 1-1/2"V, 1/2"CW & 1/2"HW FOR EACH L-1 AND L-2.

  CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- PROVIDE 3/4"CW FOR EACH HB-1, INSTALL HB-1 @ +18" AFF. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- PROVIDE 2"W & 1-1/2"V FOR EACH <u>FD-1</u>. CONNECT TO EXISTING CAPPED PLUMBING PIPING. PROVIDE 1/2" CW, SOV TO TPV-1 @ +16" AFF W/ AP FOR FD-1. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- POINT OF CONNECTION, FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.

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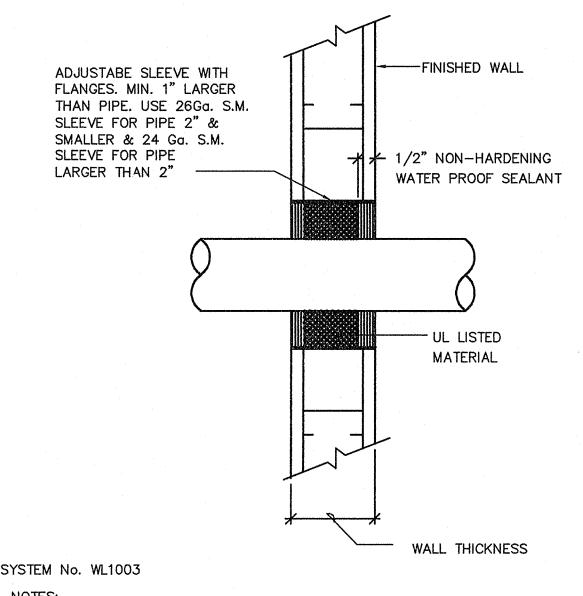
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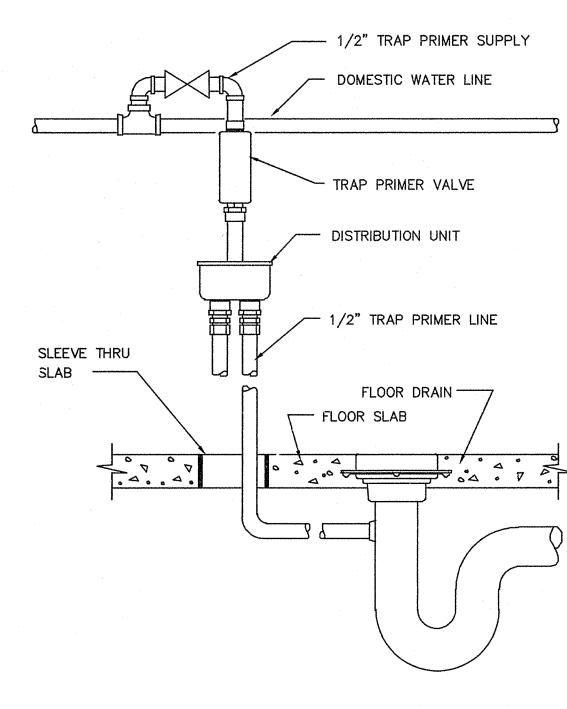
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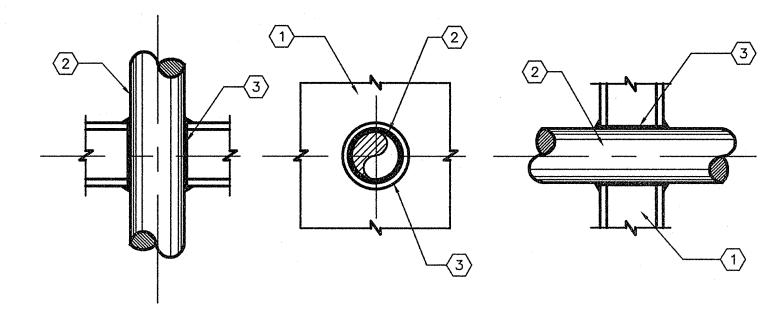


- SYSTEM No. WL1003
- STEEL SLEEVE CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019" THICK (No28 GAUGE) GALV SHEET STEEL AND HAVING A MIN. 2" LAP ALONG THE LONGTITUDIAL SEAM. LENGHT OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1" TO 4" SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROX 1/2" TO 2" BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY.
- 2 PACKING MATERIAL MIN 1" THICKNESS OF MINERAL-WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN. 1/2" FROM END OF STEEL SLEEVE (FLUSH WITH OR RECESSED INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.

## 1 TYPICAL WALL PENETRATION DETAIL (BARE PIPE)



3 TRAP SEAL PRIMER DETAIL



PACK SPACE BETWEEN PIPING AND PENETRATION OPENING WITH MATERIAL APPROVED BY UNDERWRITERS LABORATORIES FOR THROUGH PENETRATION FIRE STOP SYSTEMS. MATERIALS, METHODS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH UL APPROVED LISTING AND SHALL BE DESIGNED TO ACT AS A FIRESTOP AS WELL AS A COLD SMOKE, NOXIOUS GAS AND WATER SEALANT. SUBMIT LISTING NUMBERS AND DETAILS FROM UL FIRE RESISTANT DIRECTORY FOR ALL SUCH SYSTEMS TO BE USED. INSULATE PIPES 3 FEET TO EITHER SIDE OF PENETRATION WITH MATERIAL SPECIFIED IN THE UL FIRE RESISTANCE DIRECTORY IF REQUIRED TO OBTAIN THE T- AND F- RATINGS.

- (1) WALL AND FLOOR
- 2 PIPE OR INSULATED PIPE

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FIRE BARRIER - "3M PRODUCTS INC." FIRE BARRIER CAULK CP25 WB+, CP 25WB, CP 25 N/S AND S/L, FIRE BARRIER 2000+, 2000 AND 2003 SILICONE SEALANTS, MOLDABLE PUTTY.

USE FOLLOWING APPLICABLE UL SYSTEMS FOR THE CONSTRUCTION TYPES LISTED.

CONSTRUCTION TYPE	THROUGH PENETRATION FIRESTOP SYSTEM NUMBERS
CONCRETE FLOORS	CAJ1007 (F-2, 3, 4 HR; T-0 HR), CAJ1010 (F-2 HR; T-0 HR), CAJ1012 (F-1 HR; T-0 HR), CAJ1017 (F-2, 3 HR; T-0 HR), CAJ1021 (F-3 HR; T-0, 1.5 HR), CAJ1027 (F-3 HR; T-0 HR), CAJ1044 (F-2, 3, 4 HR; T-0 HR), CAJ1058 (F-3 HR; T-3 HR), CAJ1063 (F-3 HR; T-0.5 HR), CAJ1112 (F-2 HR; T-0 HR), CAJ1175 (F-2 HR; T-0 HR), CAJ5001 (F-1.5, 2, 3 HR; T-0, 0.5, 0.75, 1 HR), CAJ5002 (F-2, 3 HR; T-0, 0.5, 1 HR), CAJ5024 (F-2, 3 HR; T-1, 1.5 HR), CAJ5060 (F-2, 3 HR; T-0, 0.75, 1, 1.5 HR), CBJ1020 (F-4 HR; T-0, 0.75, 1.5 HR)
CONCRETE OR MASONRY WALLS	CAJ1001 (F-3 HR; T-0 HR), CAJ1017 (F-2, 3 HR; T-0 HR), CAJ1021 (F-3 HR; T-0, 1.5 HR), CAJ1027 (F-3 HR; T-0 HR), CAJ1044 (F-2, 3, 4 HR; T-0 HR), CAJ1058 (F-3 HR; T-0 HR), CAJ1063 (F-3 HR; T-0.5 HR), CAJ1112 (F-2 HR; T-0 HR), CAJ1175 (F-2 HR; T-0 HR), CAJ5001 (F-1.5, 2, 3 HR; T-0, 0.5, 0.75, 1 HR), CAJ5002 (F-2, 3 HR; T-0, 0.5, 1 HR), CAJ5003 (F-2 HR; T-0.5, 1 HR), CAJ5024 (F-2, 3 HR; T-1, 1.5 HR), CAJ5060 (F-2, 3 HR; T-0, 0.75, 1, 1.5 HR), CBJ1020 (F-4 HR; T-0, 0.75, 1.5 HR)
GYPSUM WALLBOARD/ STUD WALLS	WL1001 (F-1, 2, 3, 4 HR; T-0, 1, 2, 3, 4 HR), WL1002 (F-1, 2 HR; T-0 HR), WL1003 (F-1, 2 HR; T-0 HR), WL2002 (F-1, 1.5, 2 HR, T-0.75, 1, 1.5, 2 HR), WL2003 (F-1, 2 HR; T-1, 2 HR), WL2004 (F-2 HR; T-0.75, 1.5, 2 HR), WL2005 (F-1, 2 HR; T-0, 0.75, 1, 1.5, 2 HR), WL5002 (F-1, 2 HR; T-1, 2 HR)

PIPE PENETRATION

2 THRU FIRE RATED BARRIER DETAIL

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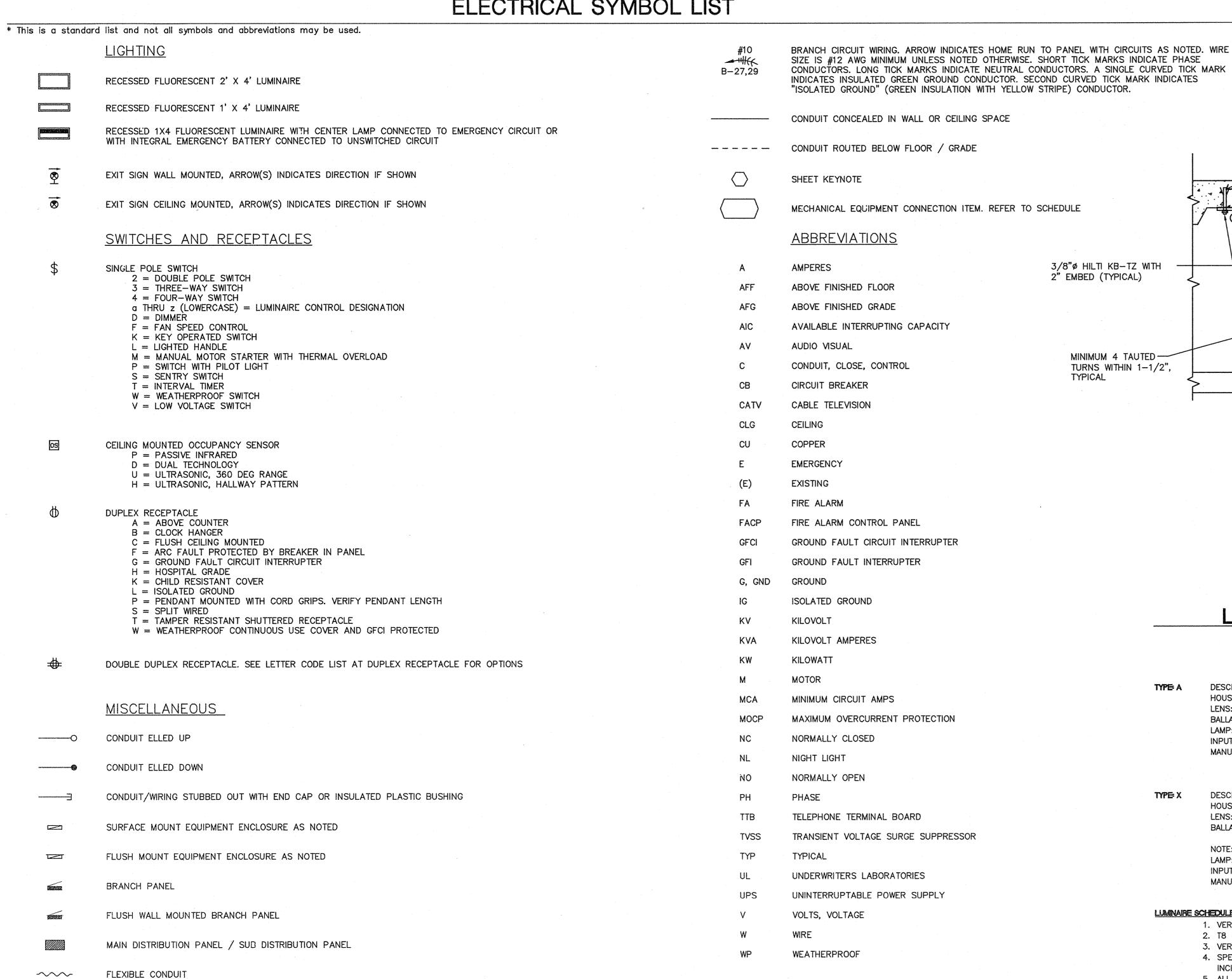
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### ELECTRICAL SYMBOL LIST



SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR. CONDUIT CONCEALED IN WALL OR CEILING SPACE EXPANSION ANCHOR (200LB LOAD ---- CONDUIT ROUTED BELOW FLOOR / GRADE TEST FOR HANGER WIRES; 440LB - CONCRETE TEST FOR BRACING WIRES MECHANICAL EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE 3/8"ø HILTI KB-TZ WITH 4 TAUT #12 GA WIRE HANGER AT—— 2" EMBED (TYPICAL) 4 CORNERS OF FIXTURE (TOTAL OF 4) WITH MIN OF 4 TURNS OF WIRE TWISTED AROUND ITSELF WITHIN 1-1/2" -4 #12 GA SPLAYED AVAILABLE INTERRUPTING CAPACITY BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER MINIMUM 4 TAUTED-TURNS WITHIN 1-1/2", **TYPICAL** NOMINAL WEIGHT 40 LBS GYPSUM BOARD DRYWALL CEILING

> RECESSED FLUORESCENT LUMINAIRE HANGING METHOD

### LUMINAIRE SCHEDULE

THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.

TYPICAL RECESSED LUMINIARE

RECESSED LENSED FLUORESCENT TROFFER. DESCRIPTION: 1' BY 4' COLD ROLLED STEEL HOUSING. HOUSING: #12 PATTERN, 0.125" THICK ACRYLIC DIFFUSER. LENS: BALLAST: ELECTRONIC. LAMP: ONE F32T8. INPUT WATTS: MANUFACTURERS: LITHONIA SP SERIES, METALUX GC SERIES, DAYBRITE, HUBBELL, COLUMBIA, LIGHTOLIER, HE WILLIAMS OR APPROVED.

UNIVERSAL MOUNTED L.E.D. EXIT SIGN. IMPACT RESISTANT THERMOPLASTIC. HOUSING: LENS: PROVIDE DIFFUSING LENS. CONNECT TO EXISTING EMERGENCY CIRCUIT IN THE BALLAST: NOTE: PROVIDE SELF DIAGNOSTIC. GREEN L.E.D. LAMP:

2.3.

LUMINAIRE SCHEDULE GENERAL NOTES

INPUT WATTS:

1. VERIFY LUMINAIRE VOLTAGE WITH BRANCH CIRCUIT SUPPLYING POWER TO LUMINAIRE PRIOR TO ORDERING.

2. T8 FLUORESCENT LAMPS TO BE 3500K WITH A MINIMUM CRI OF 80. 3. VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS.

MANUFACTURERS: LITHONIA LQM EL N SERIES OR APPROVED EQUAL.

4. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID WHERE SPECIFIED.

INCLUSION DOES NOT RELIEVE MANUFACTURER FROM PROVIDING PRODUCT AS DESCRIBED. 5. ALL LUMINAIRES OF LINEAR FLUORESCENT TYPE SHALL BE PROVIDED WITH AN INTEGRAL BALLAST DISCONNECT IN COMPLIANCE WITH CEC 410.73(G).

### GENERAL ELECTRICAL NOTES

- A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- B. REMOVE EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO CONDITIONS INDICATED IN SUCH.
- C. REMOVE ELECTRICAL MATERIALS MOUNTED IN OR ON WALLS AND CEILING TO BE RELIOVED AS INDICATED IN, ARCHITECTURAL CONSTRUCTION DOCUMENTS.
- D. REMOVE ELECTRICAL SYSTEMS SCHEDULED FOR REMOVAL UP TO ADJACENT OUTLET TO REMAIN
- OR BACK TO PANELBOARD, CABINET, ETC. E. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE
- ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT.
- G. SCHEDULE DOWN-TIME WITH OWNER AT LEAST 14 DAYS PRIOR TO BEGINNING DEMOLITION
- H. COORDINATE AND SEQUENCE DEMOLITION WORK WITH PROVISIONS OF CONSTRUCTION DOCUMENT

MAINTAIN IN OPERATION EXISTING SYSTEMS NOT INDICATED FOR REMOVAL IN CONSTRUCTION

- I. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.
- J. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. PROVIDE ADDITIONAL SPLICE BOXES, ETC., AS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM. REUSE IN PLACE EXISTING CONDUIT NOT REMOVED DURING DEMOLITION IF SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE C.E.C. (CALIFORNIA ELECTRICAL CODE) AND THOROUGHLY CLEANED AND SWABBED PRIOR TO PULLING NEW WIRES.
- K. CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FLOOR.
- L. PROVIDE CLOSURE PLATES FOR ABANDONED FLUSH OUTLETS.
- M. WHERE REMOVAL OF OUTLET(S), WALL OR PORTION OF THE CIRCUIT INTERRUPTS EXISTING CONDUIT AND/OR CIRCUIT, AND RESULTS IN LOSS OF CIRCUIT CONTINUITY, REROUTE, EXTEND AND RECONNECT REMAINING CONDUIT AND/OR CIRCUIT AS REQUIRED TO PROVIDE CONTINUITY OF THE CIRCUIT THAT REMAINS IN SERVICE TO OUTLETS AND EQUIPMENT.
- N. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL
- O. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL
- P. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.
- Q. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- R. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.
- S. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.
- T. PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN
- U. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST
- DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR. V. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH
- W. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.
- X. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.
- Y. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.
- Z. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.
- AA. OCCUPANCY SENSOR NOTES:

E0.2 TITLE 24 CALCULATIONS

1. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.

**REVISIONS** 

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

AC KN FLS A SS SMOW

FILE NO. 41-C1

Division of the State Architect Regional Office 1515 Clay St., Suite 1201

Oakland, CA 94612

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CLIENT APPROVAL

ITEM

EO.1 ELECTRICAL SYMBOL LIST, GENERAL NOTES & SHEET INDEX E2.1 PARTIAL GROUND LEVEL FLOOR PLAN - ELECTRICAL (DEMOLITION AND NEW)

JECT ADDRESS 1700 W CIPAL DESIGNER - LIG		ale Blvd.	San IVI		.	ELEPHON	lE .		Building	Permit #
Jason L UMENTATION AUTHOR	au						489-72	240	Checked	hy/Data
	ACE ENC	SINEERIN	G				288-62	200	H ·	ent Agency Use
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documentation preparation	arer hereby		he docui	mentation						
Interface		ing	SiGN	ATURE	Drift	<u></u>			DAT	e 7/1/2009
Principal Lighting De onsistent with the other										
permit application. Th - 132, 146, 148 & 149	• •	-	been de	signed to	meet the	lighting r	requireme	nts con	tained in Se	ections 110, 1
The plans & specification The installation certificate	•	•	•		a).					
The operation & maintena	ance information	on meet the requ	irements (	of Part 6 (1				· · · · · · · · · · · · · · · · · · ·		
ase Check One: (The						-				•
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I affirm that I am eligible uas the person responsible	-						-	537.2 or	6737.3 to sigr	n this document
I affirm that I am eligible u					·			OCUMent	because it pe	ertains to a
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G-1-C, Part 4 of 4: G-2-C:		rtificate of Col oor Lighting S			of 4 submi	ttal is red	quired who	en lighti	ng controls	are installed
G-3-C: G-4-C:		table Lighting hting Controls			t .					
'G-5-C: 'G-6-C:	Inde	oor Lighting F lored Method	Power All	lowance						
G-7-C: G-8-C:	Roo	om Cavity Rat	io Works							
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G-9-C: EnergyPro 4.4 by EnergyS	Line		ck Lighti				3		F	Page:1 of 6
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CERTIFICATE OF COMPLIANCE

(Part 1 of 4) **LTG-1-C** 

7/1/2009

PROJECT NAME	O 846-1		DA	ATE	^
	9 Modernization			7/1/200	9
INSTALLED INDOOR L	IGHTING POWER	FOR CONDITIONED AND UNCO	NDITIONED SPACES		
				INSTAL WAT	LE TS
		INSTALLED LIGHTING, CONDITION	ED SPACES (From LTG-2-	-C) 384	1
			LIGHTING (From LTG-3-C		
	LIG	HTING CONTROL CREDIT, CONDITION	ED SPACES (From LTG-4	-c) <u>0</u>	
		CONDITIONED SPACE ADJUSTED INS	STALLED LIGHTING POW	ER 384	1
		INSTALLED LIGHTING, UNCONDITION	ED SPACES (From LTG-2	- <b>c</b> ) 0	
	LIGHT	ING CONTROL CREDIT, UNCONDITION			
	U	NCONDITIONED SPACE ADJUSTED INS	STALLED LIGHTING POW	ER 0	
ALTERNATE COMPLIA					
PERFORMANCE ME	ETHOD	G-8-C)		MACANIMA MININA MACANIMA MACANIMA MININA MACANIMA	
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PERFORMANCE ME COMMMON LIGHTIN ALLOWED INDOOR LIC	ETHOD NG SYSTEM (From LTO SHTING POWER FOR AND DAYLIGHTING	OR ÚNCONDITIONED SPACES (	From LTG-5-C)		
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NDOOR LIGHTING POWER ALLOWANC			LTG-5-
ROJECT NAME Building 9 Modernization		DATE 7	/1/2009
LLOWED LIGHTING POWER (Choose One Method)		SERVICE CONTROL OF THE	
OMPLETE BUILDING METHOD - CONDITIONED SPACES			Effekter en
BUILDING CATEGORY (From Section 146 Table 146-B)	WATTS PER SF	COMPLETE BLDG. AREA	ALLOWED WATTS
REA CATEGORY METHOD - CONDITIONED SPACES			
AREA CATEGORY (From Section 146 Table 146-C)	WATTS PER SF	AREA (SF)	ALLOWED WATTS
Corridor/Restroom/Support	0.60	771	463
	PAGE TOTAL	771	463
	BUILDING TOTAL	771   AREA	463 watts
AILORED METHOD - CONDITIONED SPACES			
	TOTAL AL (From LTG-6-C or fron	LOWED WATTS n computer run.)	(
NCONDITIONED SPACES			
Complete Building and Area Catagory Methods Category (From Section 146 Table 146-B&C)	WATTS PER SF	AREA (SF)	ALLOWED WATTS
		***************************************	
	PAGE TOTAL	0	(
	BUILDING TOTAL	0 AREA	(WATTS
AILORED METHOD - UNCONDITIONED SPACES  TOTAL UNC	ONDITIONED SPACES A	LLOWED WATT	······································
	ad tid vitrigin die der alle die der der der der der der der der der de		
EnergyPro 4.4 by EnergySoft User Number: 4822 Job N	lumber: 2009-0003		Page:5 of 6

CERTIFICATE OF COMPLIANCE	(Part 4 of 4) LTG-1
PROJECT NAME Building 9 Modernization	DATE 7/1/2009
Designer: This form is to be used by the designer and attached to the plans. Liste tests for lighting systems. The designer is required to check the boxes lapply and list all equipment that require an acceptance test. If all equipates, list the equipment description and the number of systems to be the number designates the Section in the Appendix of the Nonresidential Attest. Also indicate the person responsible for performing the tests (i.e. professional or an agent selected by the owner). Since this form will be of this section will allow the responsible party to budget for the scope of	by all acceptance tests that ment of a certain type requ ested in parentheses. The CM Manual that describes the installing contractor, de part of the plans, completi
Building Departments: Before an occupancy permit is granted for a newly constructed building system system serving a building or space is operated for normal use, a building or space shall be certified as meeting the Acceptance Requirer In addition a Certificate of Acceptance, LTG-1-A, Forms shall be submit that:  A. Certifies plans, specifications, installation certificates, and information meet the requirements of 10-103(b) and Title 24	all control devices serving to ments for Code Compliance ted to the building departm operating and maintenance
Test Description	Test Performed By:
- Occupancy Sensor Acceptance - Manual Daylight Controls Acceptance - Automatic Time Switch Control Acceptance  Equipment requiring acceptance testing	
☐ LTG-3-A: Automatic Daylighting Controls Acceptance Document Equipment requiring acceptance testing	
	-
EnergyPro 4.4 by EnergySoft User Number: 4822 Job Number: 2009-0003	Page:3 of 6

G	HTIN	IG MANDATORY MEASURES		LTG-MI
OJEC	T NAME	Building 9 Modernization	DAT	7/1/2009
D	ESCF	RIPTION	Designer	Enforceme
	131(d) <sup>-</sup>	For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.		
	131(d)2	Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.		
	119(h)	Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.		
	111	Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.		
	131(a)	Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.		
]	131(b)	Uniform Reduction for Individual Rooms: 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 bi-level switching for uniform reduction of lighting within the room.		
	131(c)	Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.		
]	131(e)	Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.		
	*			

Sugimura Finney

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APPL 01 01-110504 AC W FLS SS M
DATE
FILE NO. 41-C   Division of the State Architect Regional Office 1515 Clay St., Suite 1201 Oakland, CA 94612

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COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT 1700 WEST HILLSDALE BLVD. SAN MATEO, CALIFORNIA

6007/20/No.

CLIENT APPROVAL:

User Number: 4822

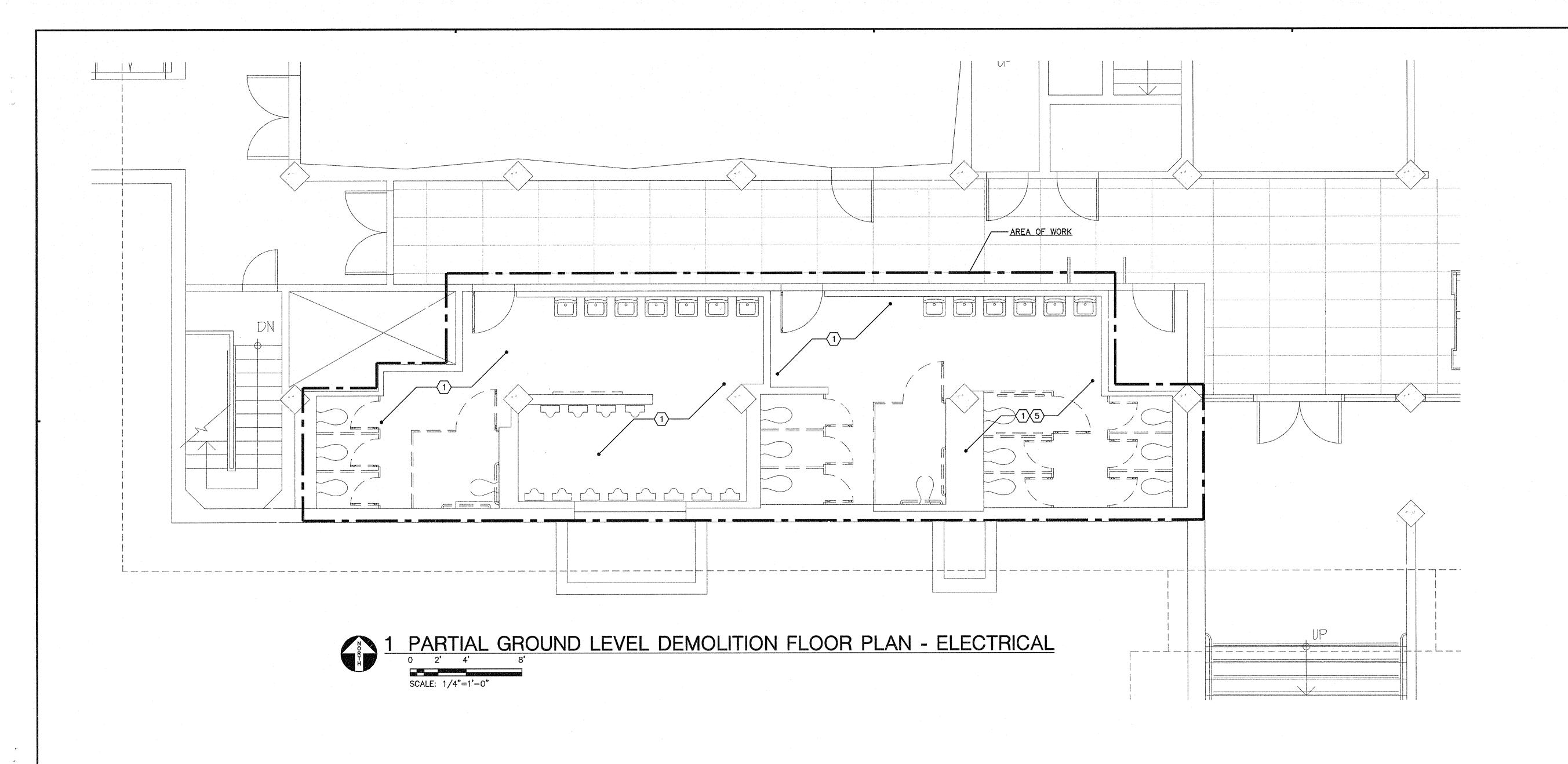
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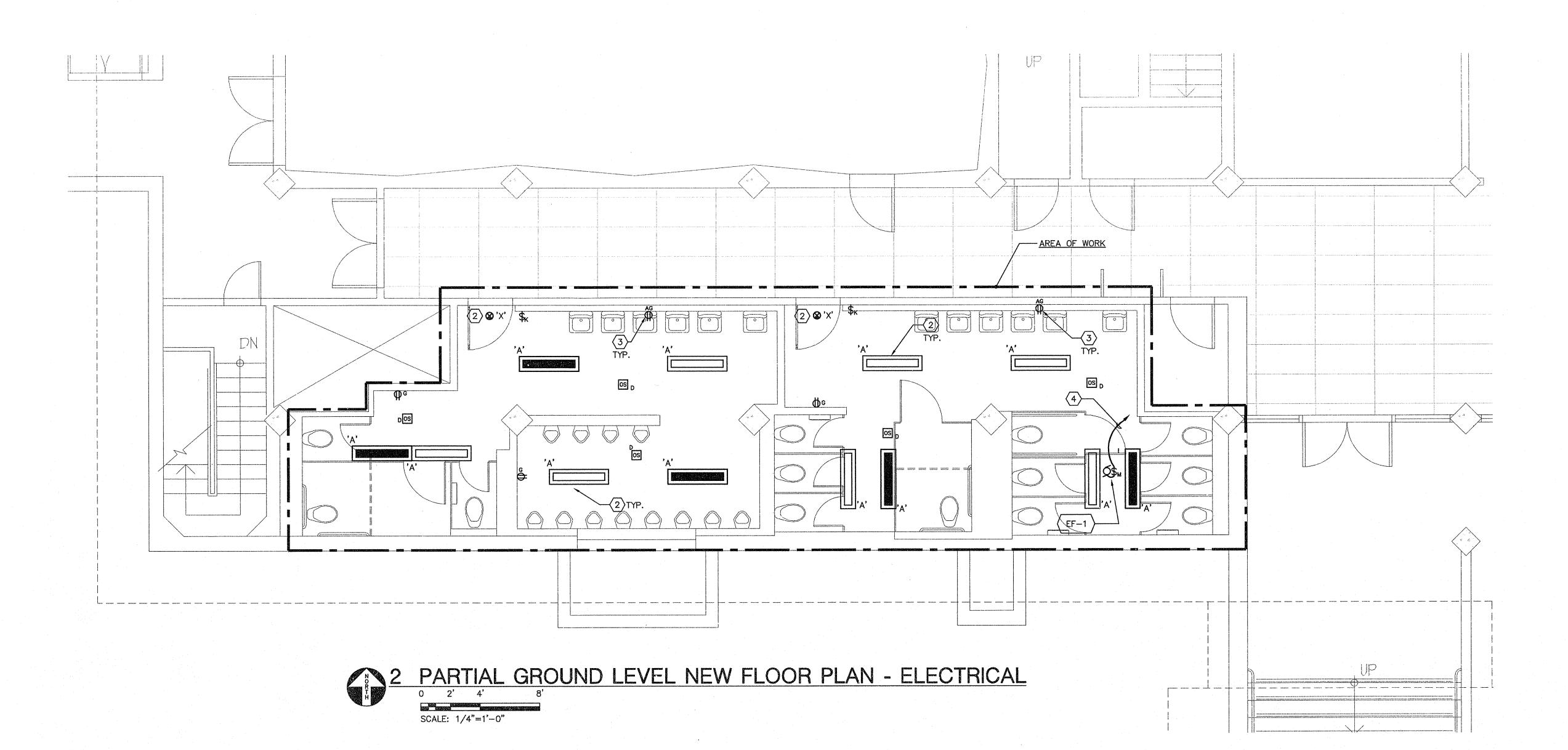
CONTROL CREDIT (From LTG-4-C)

Job Number: 2009-0003

ADJUSTED ACTUAL WATTS

Page:4 of 6





### GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH THE ARCHITECT PRIOR TO INSTALLATION.

### SHEET KEYNOTES

- REMOVE EXISTING LUMINAIRES, RECEPTACLES, SWITCHES, OCCUPANCY SENSORS, FEEDERS, ETC., AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. TERMINATE EXISTING CIRCUITS TO NEAREST JUNCTION BOX FOR REUSE. COORDINATE AND SEQUENCE DEMOLITION WORK WITH PROVISIONS OF CONSTRUCTION DOCUMENT DIVISIONS.
- 2 INTERCEPT AND EXTEND CIRCUITS FEEDING EXISTING LUMINAIRES SLATED FOR REMOVAL TO NEW LUMINAIRES/EXIT SIGNS AND CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- 3 INTERCEPT AND EXTEND CIRCUITS FEEDING EXISTING RECEPTACLES SLATED FOR REMOVAL TO NEW RECEPTACLES IN THE AREA.
- 4 INTERCEPT AND EXTEND CIRCUIT FEEDING EXISTING EXHAUST FAN SLATED FOR REMOVAL TO NEW EXHAUST FAN AND CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- REMOVE EXISTING FEEDER TO EXISTING EXHAUST FAN.
  TERMINATE EXISTING CIRCUITS TO NEAREST JUNCTION BOX
  FOR REUSE. COORDINATE AND SEQUENCE DEMOLITION WORK
  WITH PROVISIONS OF CONSTRUCTION DOCUMENT DIVISIONS.

GROUND LEVEL FLOOR PLAN - ELECTRICAL

Sugimura Finney Architecard Architecard Landscape Architecard Landscape Architecard South Bascom Ave. Suite Campbell, CA 95 408-879-0600 Fx 408-377-6

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CONTACT Valeria Torres

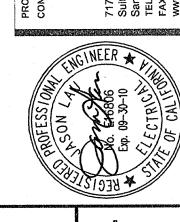
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## FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	CSFM
FACP	FIRE ALARM CONTROL PANEL SIEMENS MXL (EXISTING)	7300-0067:14
NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL SIEMENS PAD-3	7315-0067: 22
c Fig.	FIRE ALARM HORN/STROBE - # DENOTES CANDELA WHEELOCK ZNS-MCW	7125-0785:14
<b>.</b> €	C = CEILING MOUNT  FIRE ALARM STROBE — # DENOTES CANDELA  WHEELOCK ZRS—MCW  C = CEILING MOUNT	7125-0785:14

### SCOPE OF WORK

PROVIDE NEW FIRE ALARM NOTIFICATION APPLIANCES WITHIN THE RESTROOM REMODEL AREA. CONNECT TO NEW NOTIFICATION APPLIANCE CIRCUIT PANEL LOCATED ADJACENT TO THE EXISTING FIRE ALARM CONTROL PANEL.

### **ABBREVIATIONS**

FACP FIRE ALARM CONTROL PANEL

NAC NOTIFICATION APPLIANCE CIRCUIT

SLC SIGNALING LINE CIRCUIT EOL END OF LINE COMPONENT

(E) EXISTING DEVICE TO REMAIN

(R) REMOVE EXISTING DEVICE

## FIRE ALARM SYSTEM NOTES

. THE FIRE ALARM SYSTEM IS AN AUTOMATIC ADDRESSABLE, POWER-LIMITED FIRE ALARM SYSTEM. MANUAL PULL STATIONS ARE PROVIDED AT ALL EXITS. SMOKE DETECTORS ARE PROVIDED FOR HVAC FAN SHUT DOWN AND OTHER FIRE SAFETY FUNCTIONS.

2. CLASS B, STYLE 4 SLC SYSTEM.

3. NOTIFICATION APPLIANCE CIRCUITS ARE CLASS B, STYLE Y.

4. MINIMUM CONDUIT SIZE TO BE 3/4" FOR FIRE ALARM SYSTEM.

5. 10% MAXIMUM VOLTAGE DROP AND 80% MAXIMUM CURRENT ALLOWED FOR NOTIFICATION APPLIANCE CIRCUITS.

6. LISTING NUMBERS FOR EACH COMPONENT HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.

7. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBEL LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO ARCHITECT, DSA, PROJECT INSPECTOR, OWNER, AND TO THE LOCAL FIRE

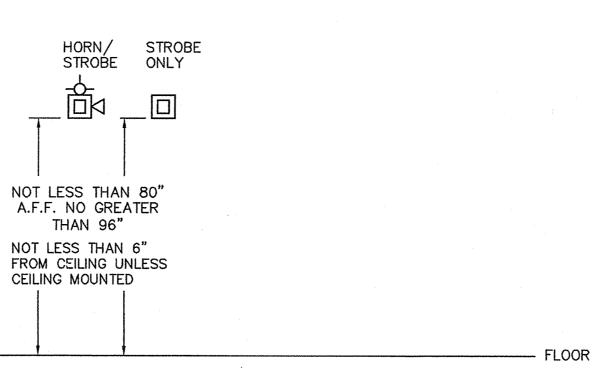
8. THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS TO BE MEASURED AND RECORDED.

9. PENETRATIONS OF ALL FIRE-RESISTIVE WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUIDING CODE.

10. ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILTY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL THAT CAN BE NORMALLY EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA !S FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2).

11. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING TO ALERT THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING 2 FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH PER SECOND ( HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5.2). STROBES SHALL BE SYNCHRONIZED.

### FIRE ALARM SYSTEM OPERATIONAL MATRIX TROUBLE SUPERVISORY CAUSE SPOT TYPE SMOKE DETECTOR SPOT TYPE HEAT DETECTOR MANUAL PULL STATION SYSTEM SILENCE SYSTEM RESET POWER FAILURE FIRE ALARM TROUBLE (OPEN, OR GROUND) ON INITIATION OR SIGNAL CIRCUITS



## MOUNTING HEIGHT REQUIREMENTS

### FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

### **INSTALLATION NOTES:**

- 1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE ADOPTED EDITIONS OF THE CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA CODE OF REGULATIONS TITLES 19 AND 24, AS APPLICABLE TO THIS PROJECT, AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 72.
- 2. INSTALLATION OF THE SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
- 3. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- 4. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSITUTION OF DEVICES, SHALL BE APPROVED BY DSA.
- 5. DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- 6. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE INSPECTOR UPON COMPLETION OF THE INSTALLATION.
- 7. ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE, SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. WHEN SPLICING TSP, IT IS NECESSARY THAT ALL SUCH CONNECTIONS BE SOLDERED (RESIN-CORE SOLDER), CRIMPED IN METAL SLEEVES, ENCAPSULATED WITH AN EPOXY RESIN OR JOINED BY WIRE NUTS. WHEN SOLDER OR CRIMPED METAL SLEEVES ARE USED, THE JUNCTION MUST BE INSULATED WITH A HIGH GRADE ELECTRICAL TAPE AS SOUND AS THE ORIGINAL INSULATING JACKET. CONTINUITY OF THE SHIELD MUST BE MAINTAINED.
- 8. NUMBER ADJACENT TO ADDRESSABLE DEVICES INDICATES SLC# AND ADDRESS. NUMBER ADJACENT TO NOTIFICATION APPLIANCES INDICATES CIRCUIT NUMBER AND DEVICE SEQUENCE, E.G., NA1-7 IS THE 7TH DEVICE ON CIRCUIT A1.
- 9. THE FIRE ALARM SIGNALS SHALL BE DISTINCTIVE IN SOUND FROM ANY OTHER SIGNALS AND THAT THIS SOUND NOT BE USED FOR ANY OTHER PURPOSE. TO MEET THIS REQUIREMENT, THE FIRE ALARM SIGNAL USED TO NOTIFY BUILDING OCCUPANTS OF THE NEED TO EVACUATE (LEAVE THE BUILDING) SHALL MATCH EXISTING SOUND & PATTERN.
- 10. AREA SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN
- (a.) THE DOOR TO A KITCHEN OR A BATHROOM CONTAINING A TUB OR SHOWER.
- (b.) SUPPLY REGISTERS OF A FORCED AIR HEATING OR
- 11. ALL EXTERIOR AND UNDERGROUND CONDUIT SHALL BE WATERTIGHT. 12. ALL WIRING SHALL BE IN CONDUIT.

### WIRE SCHEDULE

B 1 PAIR #14

NOTE: LETTER DESIGNATION INDICATES CABLE TYPE. NUMBER OF HASH MARKS INDICATES QUANTITY OF CABLES. E.G., -H-, INDICATES TWO, #14 TP CABLES.

### SHEET INDEX

- FO.1 FIRE ALARM SYMBOL LIST, MATRIX & SHEET INDEX
- F2.1 GROUND LEVEL FLOOR PLAN FIRE ALARM
- F3.1 FIRE ALARM RISER DIAGRAM AND CALCULATIONS

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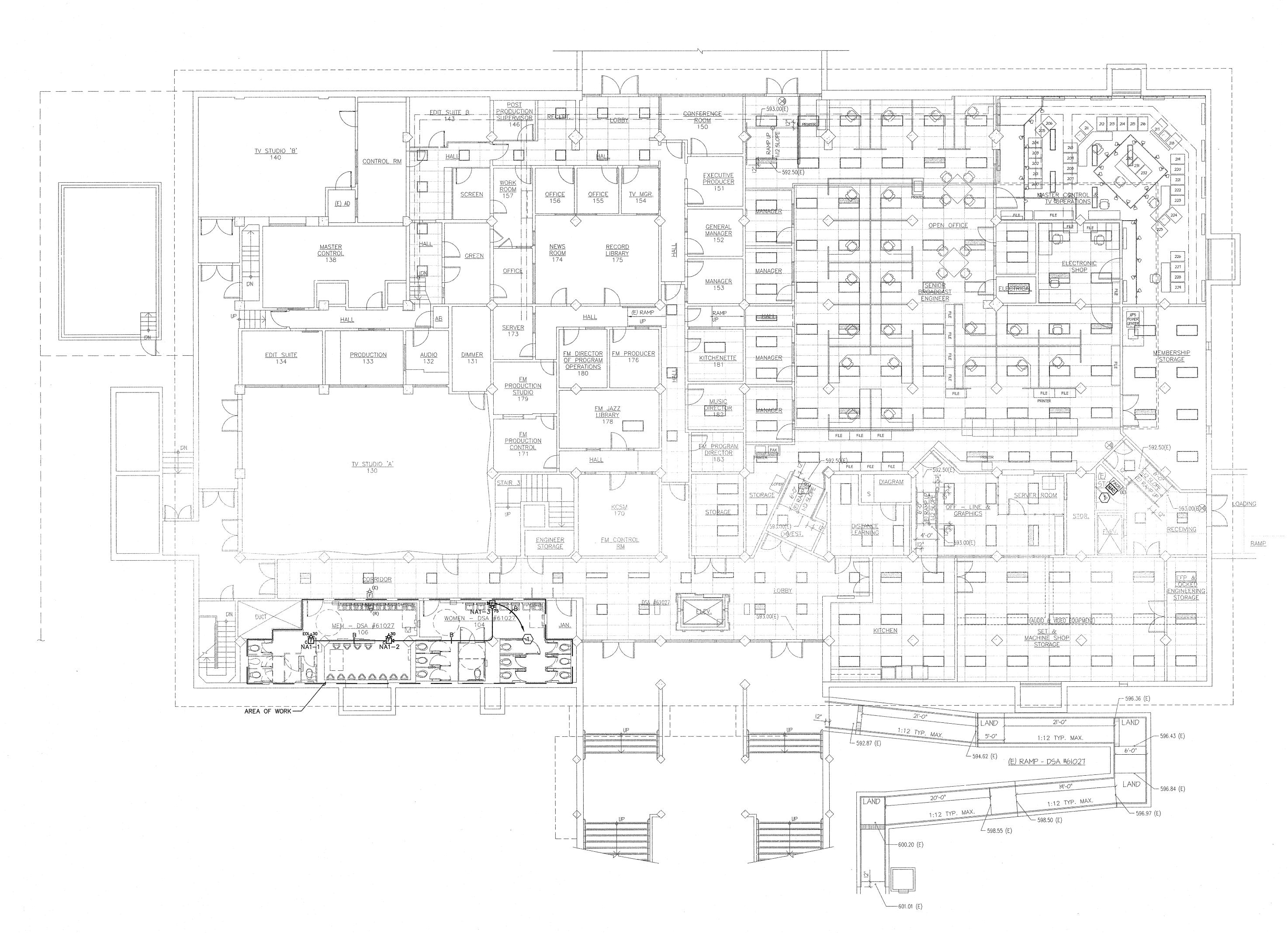
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GROUND LEVEL FLOOR PLAN - FIRE ALARM SCALE: 1/8"=1'-0"

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TO EXISTING FACP CIRCUIT

FILE: 0003F31:0WG = F31 | EDIT: 3/3/2009 3:37 PM BY JOSEPHR | PLOT: 7/1/2009 5:15 PM BY VALERIA TORRES

1 PARTIAL FIRE ALARM RISER DIAGRAM
NO SCALE

SIEMENS PAD-3 BATTERY CALCULATIONS
DEVICE QUANTITY STANDBY ALARM
CURRENT CURRENT
(A) (A)
0.035 0.140 PAD-3 CONTROL 1
NOTIFICATION APPLIANCES 0.383 0.035 0.523 24 0.840 0.0833 0.044 0.884 1.250 1.104

	NOTIFICATION CIRCUIT - NA1										
	VOLTAGE DROP CALCULATIONS  BASED ON POINT-TO-POINT OF MAS CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)										
OHM8 - (#14 FEET+ 3.07/1000 +#12 FEET+ 193/1000 + #10 FEET+ 1.21/1000) + 2											
	1) A/V 15cd 0.074 4) A/V 110cd 0.244 7) V/O 75cd 0.165			2) A/V 30cd 0.107 5) V/O 15cd 0.060 8) V/O 110cd 0.220		0.107 <b>3) A/V 75cd</b>		0.184			
						0.060	6) Y/O 30cd		0.092		
						0.220	9) A/V 135cd		0.350		
	10) A/V 185cd		0.477	11) V/O 135cc		0.300	12) A/O WP		0.044		
-		ТО	LINEAR FEET		•	RESISTANCE	LOAD	VOLTAGE	ACCUM		
DEVICE	DEVICE	DEVICE	B	ETWEEN DEVICES		OF WIRES	ON RUN	DROP	VOLTAGE		
TYPE #		ě	<b>\$14</b>	<b>₹12</b>	<b>€10</b>	(OHMS)	(AMPS)	(VOLT8)	DROP (V)		
6	11	2	15			0.092	0.092	0.008	0.008		
2	2	3	30			0.184	0.199	0.037	0.045		
3	3	NAC	150			0.921	0.383	0.353	0.398		

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