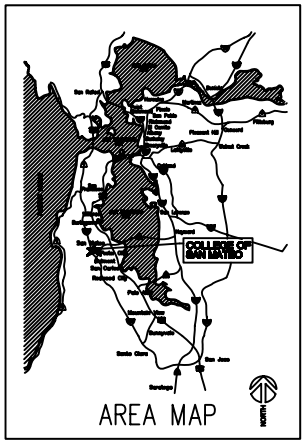
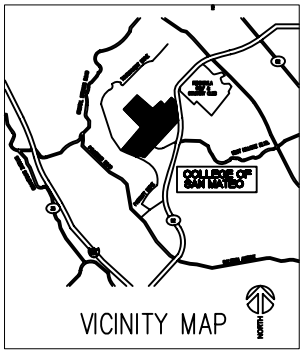
BUILDING 9 PARTIAL GROUND FLOOR REMODEL – NEW TENANT SPACE WITH SUPPORT ROOMS COLLEGE OF SAN MATEO

SAN MATEO COMMUNITY COLLEGE DISTRICT

SAN MATEO, CALIFORNIA



AREA MAP



VICINITY MAP

tBP/Architecture
1000 Burnett Avenue, Suite 140, Concord, CA 94520-2058
http://www.tbparchitecture.com - email: info@tbparchitecture.com
ph: 925.246.6419 - fax: 925.246.6495

tBP
Architecture
Planning
Interiors
Management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

architecture
planning
interiors
management

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 0357.00
file name: 09-0_Cover.dwg
drawn by: checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK

drawing title: building no.9
Cover Sheet

drawing no.:
T-0
drawing 1 of 31

ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℄	CENTERLINE
⌀	DIAMETER OR ROUND
#	NUMBER
AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACT	ACOUSTICAL TILE
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFP	ACCORDIAN FOLDING PARTITION
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERE
ANOD	ANODIZED
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ASB	ASBESTOS
ASSY	ASSEMBLY
BAT	BATTERY
BBD	BULLETIN BOARD
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BLO	BLOWER
BLR	BOILER
BLW	BELOW
BM	BEAM
BO	BOTTOM OF
BRKR	BREAKER
BTU	BRITISH THERMAL UNIT
BUR	BUILT UP ROOF
CAB	CABINET
CARP	CARPET
CAT	CATALOG
CB	CATCH BASIN
CEM	CEMENT
CF	CURB FACE
CFM	CUBIC FEET PER MINUTE
CHBD	CHALKBOARD
CHEM	CHEMICAL
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CIR	CIRCLE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLRM	CLASSROOM
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEANOUT
COL	COLUMN
COMM	COMMUNICATION
COMP	COMPOSITION
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COV	COVER
CP	CONTROL PANEL
CR	CONDENSATE RETURN
CSWK	CASEWORK
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CW	COLD WATER
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP.	DISPENSER
DIST.	DISTANCE
DIV.	DIVISION
D.L.	DEAD LOAD
DN.	DOWN
DS.	DOWN SPOUT
DWG.	DRAWING
EA.	EACH
EL.	EASEMENT LINE
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENG	ENGINEER
ENGY	ENERGY
ENTR	ENTRANCE
EP	EPOXY ENAMEL
EPG	EPOXY PAINT GLOSS
EPSG	EPOXY PAINT SEMI-GLOSS
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
E.W.C.	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F	FACTORY FINISH
F.A.	FIRE ALARM
FC	FOOTCANDLE
F.D.	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FFP	FOLDING FABRIC PARTITION
F.H.	FIRE HYDRANT
FIN.	FINISH
FLASH.	FLASHING
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.O.	FACE OF
FPP	FOLDING PANEL PARTITION
FPW	FOLDING PANEL WOOD DOOR
F.R.A.	FIRE RATED ASSEMBLY
F.R.P.	FIBERGLASS REINFORCED PANEL
F.S.	FLOOR SINK
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FXTR	FIXTURE
GA.	GAGE
GALV.	GALVANIZED
GB	GRAB BAR
GL.	GLASS
GLU.LAM.	GLUE LAMINATED
GND.	GROUND
GPM	GALLONS PER MINUTE
GR.	GRADE
GYP.	GYPSUM
H.B.	HOSE BIB
HCN	HOLLOW CORE NATURAL FINISH
HCP	HOLLOW CORE PAINT FINISH
HDBD.	HARDBOARD
HDR	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
HGT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HP	HORSEPOWER
HR.	HOUR
HSTAT	HUMIDISTAT
HTG.	HEATING
HTWR	HOT WATER RETURN
HTWS	HOT WATER SUPPLY
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
IW	IRRIGATION WATER
JAN.	JANITOR
JCT.	JUNCTION
JT.	JOINT
K	KIP (1000 LB)
KIT.	KITCHEN
KO	KNOCKOUT
KVA	KILOVOLT AMPERE
LAB.	LABORATORY
LAV.	LAVATORY
LB.	POUND
LDG	LANDING
LL	LIVE LOAD
LT	LIGHT
LTG	LIGHTING
LVL	LEVEL
LVR	LOUVER
M	METER
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MCC	MOTOR CONTROL CENTER
MECH.	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR.	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM
MIR	MIRROR
MISC.	MISCELLANEOUS
MKR	MARKER
MTL.	METAL
MTD.	MOUNTED
MUL.	MULLION
MVBL	MOVABLE
N.	NORTH
NAT.	NATURAL
NEG	NEGATIVE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OVERFLOW DRAIN
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPNG.	OPENING
OPP.	OPPOSITE
OVHD	OVERHEAD
PART.	PARTITION
PB	PULL BOX
PBD	PARTICLEBOARD
PC	PORTLAND CEMENT
PERF	PERFORATED
PERP	PERPENDICULAR
PE	PAINT EGGSHELL
PF	PAINT FLAT
PG	PAINT GLOSS
PH	PHASE
PIV	POST INDICATOR VALVE
P.L.	PROPERTY LINE
PLAS.	PLASTER
PLAT.	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD.	PLYWOOD
PNL	PANEL
POS	POSITIVE
PP	PORTABLE PARTITION
PR.	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSG	PAINT SEMI-GLOSS
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
Q.T.	QUARRY TILE
QTY	QUANTITY
R.	THERMAL RESISTANCE
RAD.	RADIUS
R.D.	ROOF DRAIN
RDWD.	REDWOOD
REF.	REFERENCE
REFR.	REFRIGERATOR
REG.	REGISTER
REINF.	REINFORCING
REQD.	REQUIRED
RESIL.	RESILIENT
RET	RETURN
REV.	REVERSE
RFG	ROOFING
RM.	ROOM
R.O.	ROUGH OPENING
S	SEALER
S.B.	SPLASH BLOCK
S.C.	SOLID CORE
SCN	SOLID CORE
S.C.	SOLID CORE
SCHED.	SCHEDULE
S.C.	SOLID CORE
S.C.	SOLID CORE
S.D.	STORM DRAIN
SECT.	SECTION
SF	STAIN FINISH
SFL	STAIN FINISH W/ LACQUER
SFV	STAIN FINISH W/ VARNISH
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATIONS
SPLY	SUPPLY
SQ.	SQUARE
SR	STEAM RETURN
SS	STEAM SUPPLY
S.SK.	SERVICE SINK
SST.	STAINLESS STEEL
ST	STREET
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD.	STANDARD
STL.	STEEL
STM	STEAM
STOR	STORAGE
STRUCT.	STRUCTURAL
SURF	SURFACE
SUSP.	SUSPENDED
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SWR	SEWER
SYM.	SYMBOL
SYS	SYSTEM
T.	THERMOSTAT
T. & B.	TOP AND BOTTOM
T. & G.	TONGUE AND GROOVE
TD	TRENCH DRAIN
TECH	TECHNICAL
TEL.	TELEPHONE
TEMP.	TEMPERATURE
THK	THICK
THRES.	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
T.O.	TOP OF
TOT	TOTAL
TR.	TREAD
TRNSF.	TRANSFORMER
TYP.	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UGND	UNDERGROUND
UNFIN.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UPG	URETHANE PAINT GLOSS
UPSG	URETHANE PAINT SEMI-GLOSS
UR.	URINAL
UTIL	UTILITY
V	VOLT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
W	WATT
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
WHSE	WAREHOUSE
WL.	WIND LOAD
WLD	WELDED
WO	WHERE OCCURS
WP	WORKING POINT
WPG	WATERPROOFING
WR	WATER RESISTANT
WSCT.	WAINSCOT
WT	WEIGHT
W.W.F.	WELDED WIRE FABRIC
XFMR	TRANSFORMER

GENERAL NOTES

1. ADDENDA, CHANGE ORDERS PER SECTION 4-338.
2. INSPECTOR APPROVED BY OSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECT. 4-333(b) & 4-342.
3. TEST AND TESTING LABORATORY PER SECTION 4-335. (OWNER SHALL PAY THE TESTING LABORATORY.)
4. SPECIAL INSPECTION PER SECTION 4-333 (c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 & 4-343 (c) .
6. ADMINISTRATION OF CONSTRUCTION PER PART-I, TITLE 24, CCR ENGINEER PER SECTION 4-333 (a) & 4-341.
   - DUTIES OF CONTRACTOR PER SECTION 4-343.
   - VERIFIED REPORTS PER SECTION 4-336.
7. GOVERNING CODES : TITLE 24, C.C.R.
8. A COPY OF PART-I & 11 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FEILD DURING CONSTRUCTION.
9. OSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER SECTION 4-331.
10. SUPERVISION BY THE OFFICE OF THE STATE ARCHITECT PER SECTION 4-334.

DRAWING LIST

GENERAL

T-0 COVER SHEET
T-1 GENERAL NOTES/ ABBREVIATIONS/ DRAFTING SYMBOLS

ARCHITECTURAL DRAWINGS

AS-1 CAMPUS SITE PLAN
AS-2 ACCESSIBLE PATH OF TRAVEL
A2.10 GROUND FLOOR DEMOLITION PLAN
A2.20 GROUND FLOOR PLAN
A3.10 GROUND FLOOR REFLECTED CEILING DEMOLITION PLAN
A3.20 GROUND FLOOR REFLECTED CEILING PLAN
A5.10 EXTERIOR & INTERIOR ELEVATIONS
A8.10 GROUND FLOOR FURNITURE PLAN
4.01 TYPICAL METAL STUD DETAILS
4.02 INTERIOR PARTITIONS AND MISC. DETAILS
5.01 TYPICAL ACOUSTICAL PANEL CEILING DETAILS
6.01 TYPICAL CASEWORK DETAILS
8.01 FINISH, WINDOW AND DOOR SCHEDULE
8.50 DOOR & WINDOW DETAILS
11.01 TYPICAL SIGNAGE

~~MECHANICAL DRAWINGS~~

~~M0.1 LEGEND AND SCHEDULES~~
~~M2.1D BUILDING 9 DEMOLITION PLAN~~
~~M2.1 LIBRARY GROUND FLOOR NEW WORK~~
~~M5.1 DETAILS AND CONTROLS~~

ELECTRICAL DRAWINGS

E0.1 LEGEND NOTES AND SCHEDULES
E2.1D GROUND FLOOR DEMOLITION LIGHTING PLAN
E2.1 LIBRARY GROUND FLOOR LIGHTING PLAN
E3.1 GROUND FLOOR – POWER AND SIGNAL PLAN
E3.2 GROUND PARTIAL PLAN – POWER AND SIGNAL
E4.1 FIRE ALARM NOTES AND SCHEDULES
E4.2 GROUND FLOOR – FIRE ALARM SYSTEM
E4.3 FIRE ALARM RISER DIAGRAM
E5.1 SINGLE LINE DIAGRAM
E6.1 PANEL BOARD SCHEDULES
E7.1 ELECTRICAL DETAILS

PLUMBING DRAWINGS

P2.1 LIBRARY GROUND FLOOR NEW WORK

TELE COMMUNICATION DRAWINGS

TC 3.1 GROUND FLOOR COMMUNICATIONS
TC 3.2 COMMUNICATIONS DETAILS

STATE BLDG. CODE

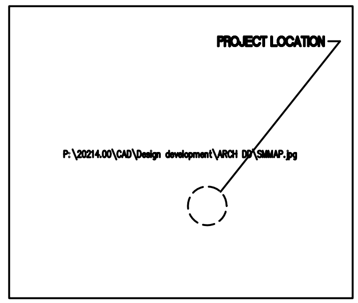
PART – 1, TITLE 24 C.C.R.

PLANS AND SPECIFICATIONS WHICH WHEN SUBMITTED ARE OBVIOUSLY INCOMPLETE OR INCORRECT, SHALL BE RETURNED TO THE DESIGNER WITH A REQUEST FOR COMPLIANCE WITH THESE REGULATIONS BEFORE CHECKING IS STARTED BY THE OFFICE.

SPECIFICATIONS SHALL COMPLETELY SET FORTH THE REQUIREMENTS FOR THE VARIOUS TYPES OF MATERIALS THAT WILL ENTER INTO PERMANENT CONSTRUCTION AND SHALL DESCRIBE THE METHODS NOT COVERED IN THE TECHNICAL REGULATIONS WHICH ARE TO BE USED TO OBTAIN THE REQUIRED QUALITY OF THE WORK SHOWN ON THE PLANS AS DESCRIBED IN THE SPECIFICATIONS.

DUE TO THE DIFFICULTY OF ANTICIPATING EVERY UNSATISFACTORY CONDITION THAT MIGHT BE FOUND IN EXISTING CONSTRUCTION WHERE ALTERATION, REHABILITATION OR RECONSTRUCTION WORK IS PROPOSED, THE FOLLOWING CLAUSE OR ONE OF SIMILAR MEANING SHALL BE INCLUDED IN ALL SPECIFICATIONS FOR ALTERATION, REHABILITATION OR RECONSTRUCTION PROJECTS: "THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OFFICE BEFORE PROCEEDING WITH THE WORK".

CAMPUS MAP



PROJECT DATA

PROJECT DESCRIPTION – BUILDING 9

THE SCOPE OF WORK WILL BE CONCENTRATED ON THE GROUND FLOOR, PROJECT CONSIST OF NEW OFFICE PARTITIONING, MASTER CONTROL & TV OPERATION, SUPPORT ROOMS OF EXISTING OPEN OFFICE (LEARNING RESOURCE CENTER), ANY ADDITIONAL UPGRADES TO THE ELEVATOR, (N) SIGNAGE TO TOILET ROOMS, DOOR/HARDWARE UPGRADES AND MECHANICAL UPGRADES.

CODE DATA – BUILDING 9

TYPE OF CONSTRUCTION: II-1HR
OCCUPANCY: B
AREA OF IMPROVEMENT: 9,710 S.F.
TOTAL AREA: 21,993 S.F.
2 STORY BLDG.
ALLOWABLE AREA 18,000 S.F.
2 FLOOR X2
SUB TOTAL 36,000 S.F.
4 SIDE YARDS 100% INCREASE
TOTAL ALLOWABLE AREA 72,000 S.F.

APPLICABLE CODES

LIST OF 2001 CALIFORNIA CODE OF REGULATIONS:

APPLICABLE CODES:

2001 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2001 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. WITH 1997 SUPPLEMENT (1997 UNIFORM BUILDING CODE, VOLUMES 1-3 AND 1998 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (1996 NATIONAL ELECTRIC CODE AND 1998 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (1997 UNIFORM MECHANICAL CODE AND 1998 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (1997 UNIFORM PLUMBING CODE AND 1998 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (1997 UNIFORM FIRE CODE AND 1998 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PROJECT DIRECTORY

ARCHITECT
tBP/ARCHITECTURE
1000 BURNETT AVENUE, SUITE 140
CONCORD, CA 94520
P: 925.246.6419
F: 925.246.6495

STRUCTURAL ENGINEER
DASSE DESIGN INC.
1999 HARISSON ST, STE 500
OAKLAND, CA 94612
P: 510.433.9370
F: 510.433.9378

MECHANICAL/ELECTRICAL/PLUMBING
FARD ENGINEERS, INC.
309 LENNON LANE
WALNUT CREEK, CA 94598
P: 925.932.5505
F: 925.932.0555

REFERENCE SYMBOLS

FULL BUILDING SECTION
LETTER ABOVE – SECTION
NUMBER BELOW – SHEET NUMBER

INTERIOR ELEVATION IDENTIFICATION
NUMBER ABOVE – ROOM NUMBER
INTERIOR ELEVATION REFERENCE

KEYNOTE REFERENCE
KEYNOTE REFERENCE NUMBER

PARTIAL BUILDING SECTION / WALL SECTION
LETTER ABOVE – SECTION
NUMBER BELOW – SHEET NUMBER

DOOR NUMBER IDENTIFICATION
DOOR NUMBER – REFER TO DOOR SCHEDULE

COLOR REFERENCE
COLOR REFERENCE – REFER TO COLOR SCHEDULE CT-1

EXTERIOR ELEVATION
NUMBER ABOVE – ELEVATION NUMBER
NUMBER BELOW – SHEET NUMBER

WINDOW TYPE IDENTIFICATION
WINDOW TYPE – REFER TO WINDOW DETAILS

WALL TYPE REFERENCE
WALL TYPE – MATL. – CMU, MTL. STD
– T/GA – WALL THICKNESS/ STUD GUAGE

DETAIL
NUMBER ABOVE – DETAIL NUMBER
NUMBER BELOW – SHEET NUMBER

CASEWORK IDENTIFICATION
CASE HEIGHT
CASE LENGTH
CASE DEPTH
M.I.C. MODEL NUMBER
LOCKABLE – IF REQUIRED

ROOM IDENTIFICATION WITH INTERIOR ELEVATION REFERENCES
NUMBER ABOVE – ROOM NUMBER
INTERIOR ELEVATION – (REFERENCE ONLY THOSE DRAWN)
NUMBER BELOW – SHEET NUMBER

TOILET ACCESSORY IDENTIFICATION
TOILET ROOM ACCESSORY NUMBER

WALL TYPES

MASONRY WALL
MASONRY VENEER WALL
CONCRETE WALL
NEW PARTITION WALL
DEMOLISHED WALL

MATERIAL SYMBOLS

EARTH
PLYWOOD
RIGID INSULATION
SAND & GROUT
FINISH WOOD
ACOUSTICAL CEILING PANEL/ TILE
CONCRETE
LATH & PLASTER
MASONRY
GYPSUM BOARD
STEEL
BATT INSULATION

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495
architecture planning interiors management

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL

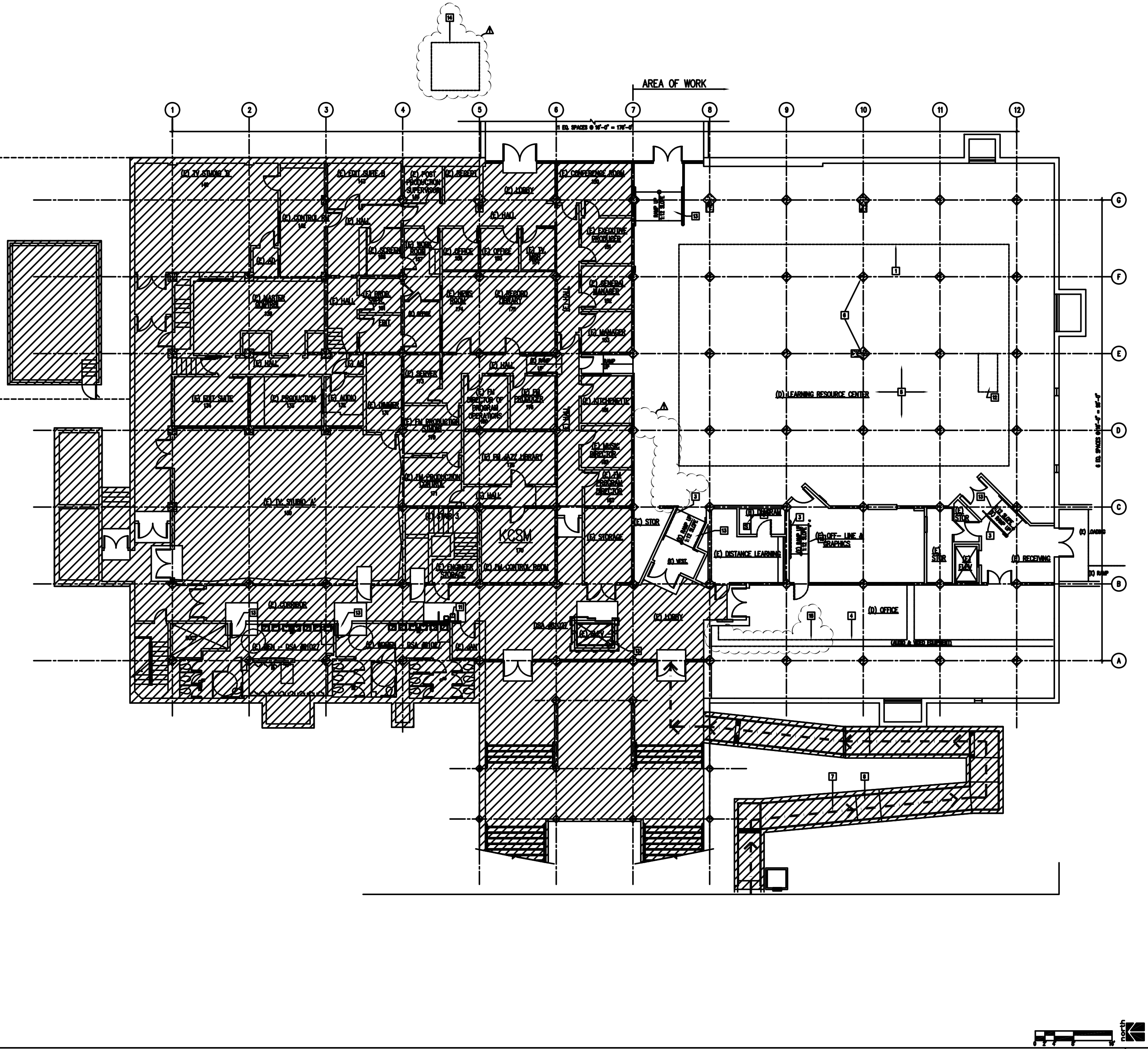
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 03572.00
file name: T-1.dwg
drawn by: JM checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
⚠	10/21/05	ADDENDUM 1

drawing title: building no.9
GEN. NOTES/ ABBREV./ & DRAFTING SYMBOLS

drawing no.: T-1
drawing 2 of 31



GROUND FLOOR DEMOLITION PLAN 1

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

NOTES

1. ALL DAMAGED WALL SURFACES SHALL BE PATCHED AND REPAIRED AS REQUIRED BEFORE APPLICATION OF NEW FINISH
2. CONFIRM WITH OWNER: DISPOSAL OF TOILET ROOM FIXTURES, LIGHTING FIXTURES, MECHANICAL FIXTURES, ETC.
3. REMOVE AND REPLACE ANY FINISHES AS REQUIRED TO INSTALL ANY NEW WORK PER STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING
4. CONTRACTOR SHALL TURN OVER TO OWNER ANY AND ALL LIGHTING FIXTURES, DOORS, EQUIPMENT, ETC. THAT MAY BE REUSABLE. STORE PER OWNER'S DIRECTION.
5. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND CONSTRUCTION. DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK IN CONFLICT.
6. CONTRACTOR SHALL DISPOSE (OFF SITE) OF ALL RUBBISH AND DEBRIS RESULTING FROM DEMOLITION. DEBRIS SHALL BE DISPOSED OF DAILY AND NOT ALLOWED TO ACCUMULATE. LEAVE JOB SITE IN BROOM CLEAN CONDITION PRIOR TO FINAL CONSTRUCTION
7. ROOM NAME/NUMBERS ARE FOR REFERENCE ONLY; COORDINATE W/ COLLEGE FOR THE CORRECT DESCRIPTION.
8. CONTRACTOR TO KEEP OLYMPISAT UP AND RUNNING DURING CONSTRUCTION

KEY NOTES

1. LINE OF (E) SOFFIT ABOVE
2. ~~(E) COUNTER TO BE REMOVED~~
3. (E) NON ADA COMPLIANT HANDRAIL TO BE REMOVED
4. (E) FLOOR TRENCH DUCT TO REMAIN
5. (E) CARPET THROUGHOUT FLOOR TO REMAIN. U.N.O., TAKE SPECIAL PRECAUTIONS TO PROTECT (E) FLOORING (CARPET), PROVIDE MASONITE OR PLYWOOD SHEETS TO PREVENT DAMAGE DURING CONSTRUCTION.
6. (E) CONCRETE COLUMN, TYP.
7. (E) PATH OF TRAVEL; REF TO SHEET AS-2
8. (E) CONCRETE ADA COMPLIANT RAMP; REF TO SHEET A2.20
9. (E) SINK - CONTRACTOR TO V.I.F. SEE DETAIL
10. NOT USED
11. REMOVE (E) HI-LO DRINKING FOUNTAIN, REDO PLUMBING IF REQUIRED FOR (N) HI-LO DRINKING FOUNTAIN. STRIP (E) GWB FOR (N) BACKING PLATE AS REQUIRED. SEE A2.20
12. REMOVE A PORTION OF ACCESS FLOORING, TO ACCOMMODATE (N) CONCRETE SLAB. SEE A2.20
13. REF. TO SHEET A2.20 FOR BALANCE OF DATA
14. REMOVE FENCE & PAD FOR DK
15. (E) FLOOR TRENCH DUCT TO BE REMOVED SEE BULLETIN 2 FOR REPAIR DETAIL

WALL LEGEND

- (E) MTL. STUD WALL TO REMAIN
- (E) MTL. STUD WALL TO BE REMOVED
- (E) DOOR TO BE REMAIN
- (E) DOOR TO BE REMOVED
- NOT PART OF SCOPE " EXCEPT FOR FIRE ALARM UPGRADE PER SHEET E4.2."

tBP architecture planning interiors management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.6 .3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 8577.00

file name: 0210_0demo.dwg

drawn by: JM checked by:

date: October 21, 2005

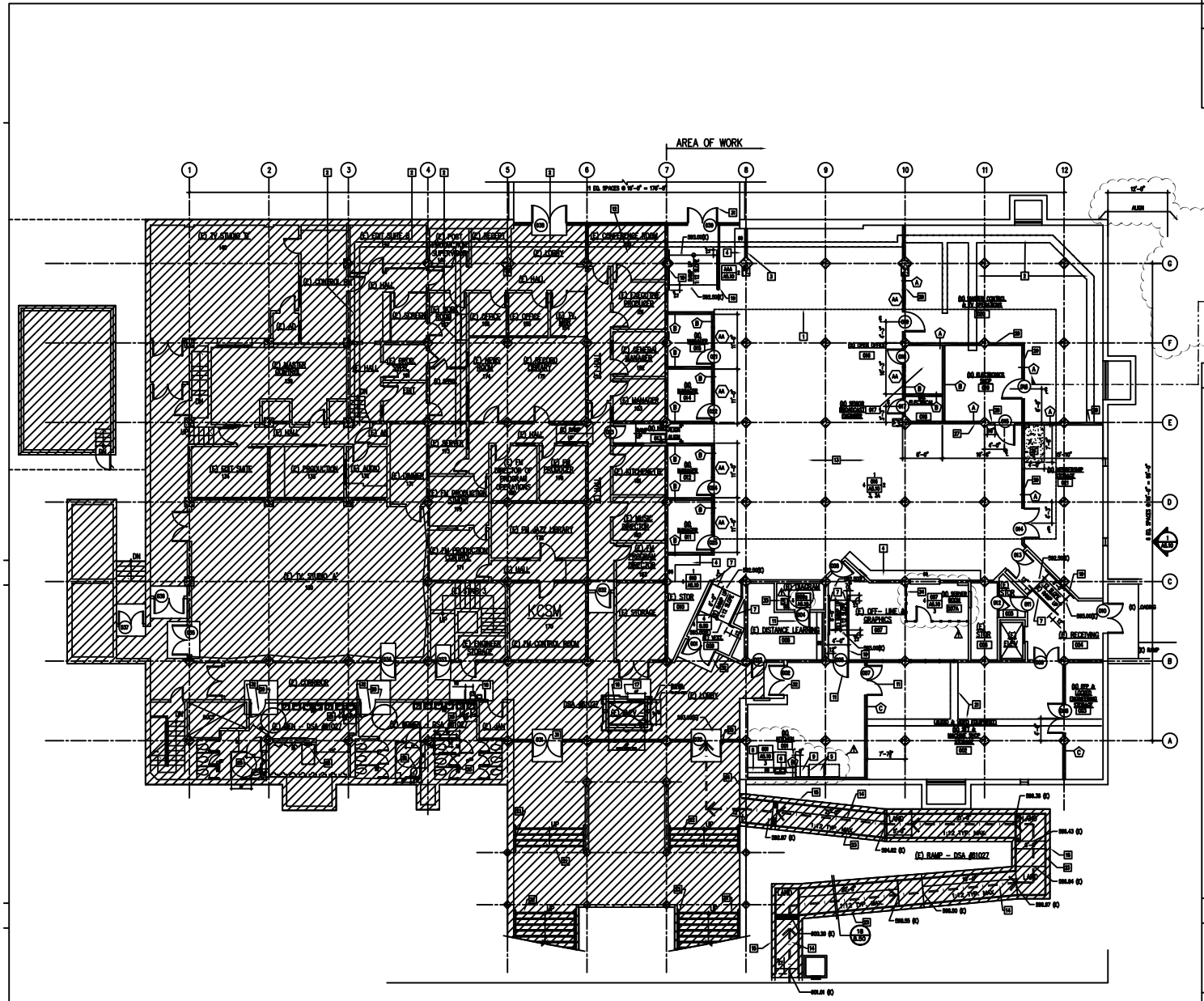
Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

drawing title: building no. 9

GROUND FLOOR DEMOLITION PLAN

drawing no.: A2.10

drawing 5 of 31



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

1

NOTES

1. DOOR NAME/NUMBERS ARE FOR REFERENCE ONLY, COORDINATE W./ COLLEGE FOR THE CORRECT DESCRIPTION.
2. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
3. SUMP PUMP MAYBE NEEDED IN THE LIGHT WELLS.

KEY NOTES

1. LINE OF (E) SOFFIT ABOVE
2. LINE OF (N) CABLE TRAY ABOVE TO ABOVE EXISTING- APPROX 7'-6" FROM FLOOR (ABOVE CEILING). ENTIRE CABLE TRAY SHALL BE PART OF THIS PACKAGE.
3. (N) WALL - 5'-0" HIGH, SEE
4. (N) COUNTER TOP
5. REFRIGERATOR - PROVIDED BY OWNER
6. (N) ACCESSIBLE SINK W/ GARBAGE DISPOSAL - SEE PLUMBING DWGS. & DETAIL 16/ A.01
7. (N) ADA COMPLIANT HANDRAIL
8. (N) WALL & BASE CABINETS
9. (N) OVEN/RANGE PROVIDED BY OWNER
10. (N) DRINKING FOUNTAIN (HANDS FREE) W/ ASSY. (N) SIDE HANDRAIL. REF TO DET.
11. REMOVE & REINSTALL (E) DOORS, & FLIP-OFF SIGNS OPENING.
12. PORTABLE ASSISTIVE LISTENING SYSTEM (ALS) BY OWNER SEE 11/A.08 FOR SIGNAGE DETAIL.
13. PROVIDE MASONITE OR PLYWOOD SHEET TO PROTECT EXISTING FLOOR FINISH FROM DAMAGE, DURING CONSTRUCTION.
14. (E) ACCESSIBLE PATH OF TRAVEL
15. (E) ADA COMPLIANT CONCRETE RAMP, SEE DETAIL (FOR REF ONLY)
16. (E) ADA COMPLIANT ELEVATOR (DSA #9027) SEE DETAILS 6.7/A.402 UNLESS OTHERWISE NOTED (FOR REF ONLY)
17. ADD ADDITIONAL ELEVATOR SIGNAGE, SEE
    - FLOOR LANDING NUMBER ON BOTH SIDES OF DOOR JAMB
    - AUDIO VISUAL SIGNAL (HALL LANTERN) W.I.F. IF AUDIBLE SIGNAL IS PRESENT.
18. (E) HANDRAIL
    ADD WALL AND OR DOOR MOUNTED SIGNAGE, SEE DETAIL 5/11.01
19. (E) FLOOR TRENCH DUCT
20. (E) 2" CONTRASTING NOSING STRIP ON EACH TREAD AT ALL EXTERIOR STAIRS.
21. (E) ADA COMPLIANT HANDRAILS (FOR REF. ONLY SEE DETAIL 3/A.05 TYA)
22. (E) DOOR PUSH BUTTON FOR DOOR ACTUATOR (AT 42" A.F.F.)
23. ALL TOILET FIXTURES ARE (E) (FOR REF ONLY REFER. TO DETAIL 20/A.02 FOR (E) MOUNTING HEIGHTS.
24. (N) RAISED CONCRETE PAD, TO ACCOMODATE (N) VPS, SEE DETAIL 20/A.01. CONTRACTOR TO COORDINATE EXACT PLACEMENT W/ VEND.
25. WALL BETWEEN GRID LINES 10 AND 11 ARE CENTERED ON GRID
26. LOCATE WALL OFF CENTER FROM GRID, TO ALLOW REMOVAL OF ACCESS PANELS, REF TO DETAIL 16/A.02
27. LOCATE WALL CLEAR OF (E) ACCESS PANELS, REF. TO DETAIL 16/A.02
28. (E) POWER ACTUATED DOOR.
    - PUSH BUTTON EXTERIOR
    - SENSOR INTERIOR
    - RAMP THRESHOLD
    - PER DSA # 09027
29. (E) DOOR TO REMAIN
30. (E) DOOR WITH LEVER HARDWARE AND COMPLIANT THRESHOLD UPGRADED UNDER DSA # 09027
31. (E) COMPLIANT KITCHEN CABINET W/ SINK- SEE DETAIL 6/A.01 & A5.10
    CHAIN LINK FENCE SEE DETAIL 6/7/ A5.10 & 8 /A.10
32. ALTERNATE KITCHEN CABINETS- SEE ALTERNATE FLOOR PLAN AND ELEVATION ON SHEET A5.10

WALL TYPE

A. REFER TO SHEET DWG. A/A.402 FOR FULL HGT. PARTITION DETAIL.
B. REFER TO SHEET DWG. B/A.402 FOR LOW HGT. PARTITION DETAIL.
C. REFER TO SHEET DWG. C/A.402 FOR LOW HGT. PARTITION DETAIL.

WALL LEGEND

- (E) MTL. STUD WALL TO REMAIN
- (N) MTL. STUD WALL
- (E) DOOR TO REMAIN
- (N) DOOR PER SCHEDULE - SEE SHEET A.01
- NOT PART OF SCOPE
  - EXCEPT FOR THE ALARM UPGRADE PER SHEET E3.1 - TRANSFORMER & RELATED ITEMS & LISTING EQUIPMENT PER SHEET E3.1, RELOCATION OF (E) D.F. AND (N) GRAB BAR @ (E) W. TOILET.

north

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6490 fx: 925.246.6495

tBP
architecture
planning
interiors
management

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

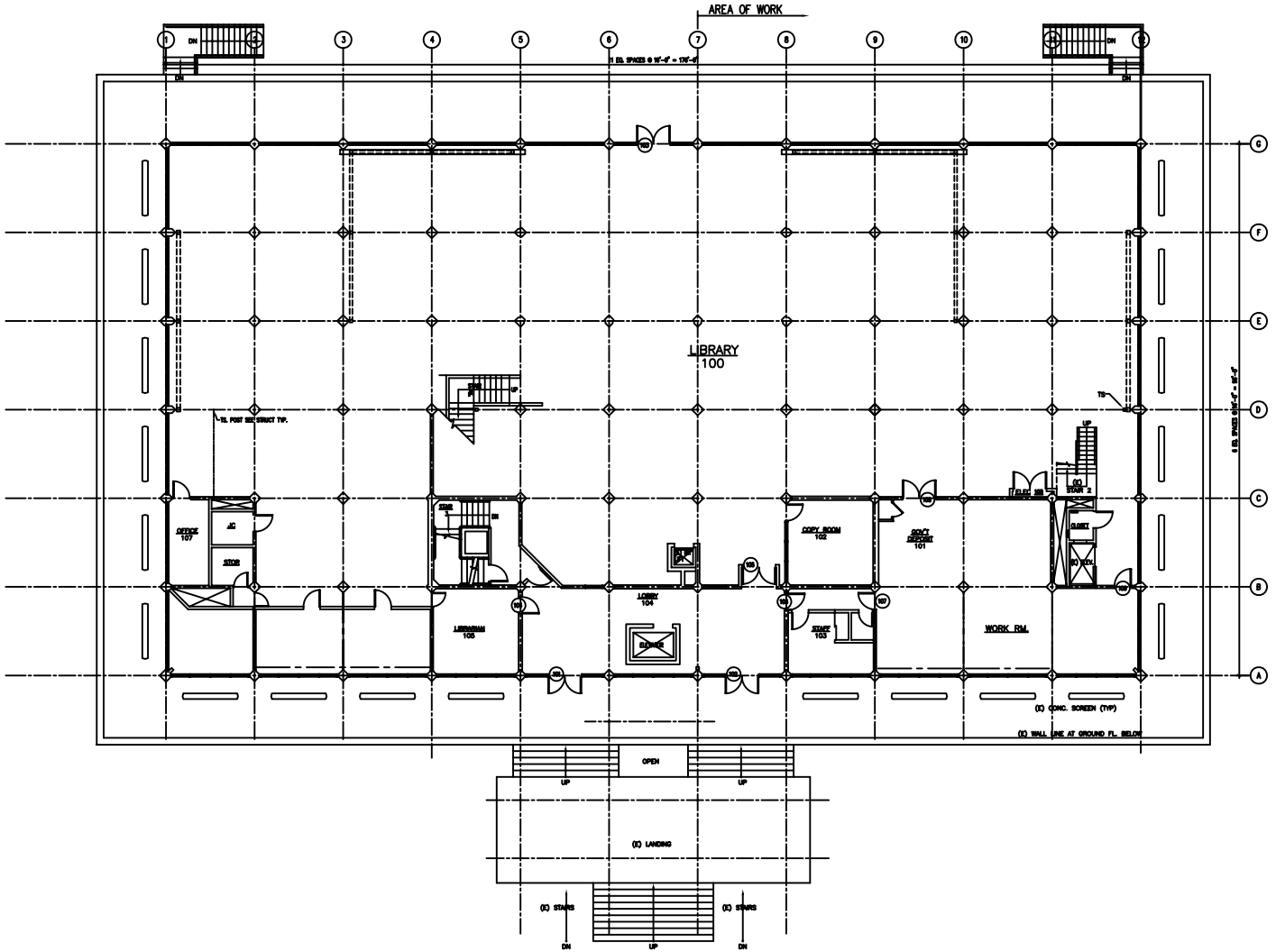
COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 03372.00
file name: 0220_09.dwg
drawn by: checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

drawing title: building no.: 9
GROUND FLOOR PLAN

drawing no.:
A2.20
drawing # of #



FIRST FLOOR PLAN 1

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

KEY NOTES

1 NOT USED

WALL LEGEND

(E) MTL. STUD WALL TO REMAIN

(N) MTL. STUD WALL

(E) DOOR TO REMAIN

(N) DOOR PER SCHEDULE - SEE SHEET G.01

NOT PART OF SCOPE
EXCEPT FOR FIRE ALARM UPGRADES PER SHEET E2.0 , TRANSFORMER & RELATED ITEMS & LIGHTING EQUIPMENT PER SHEET E3.1, RELOCATION OF (E) D.F. AND (N) 60AB SWB @ (E) M. TOILET.

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

architecture
planning
interiors
management

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

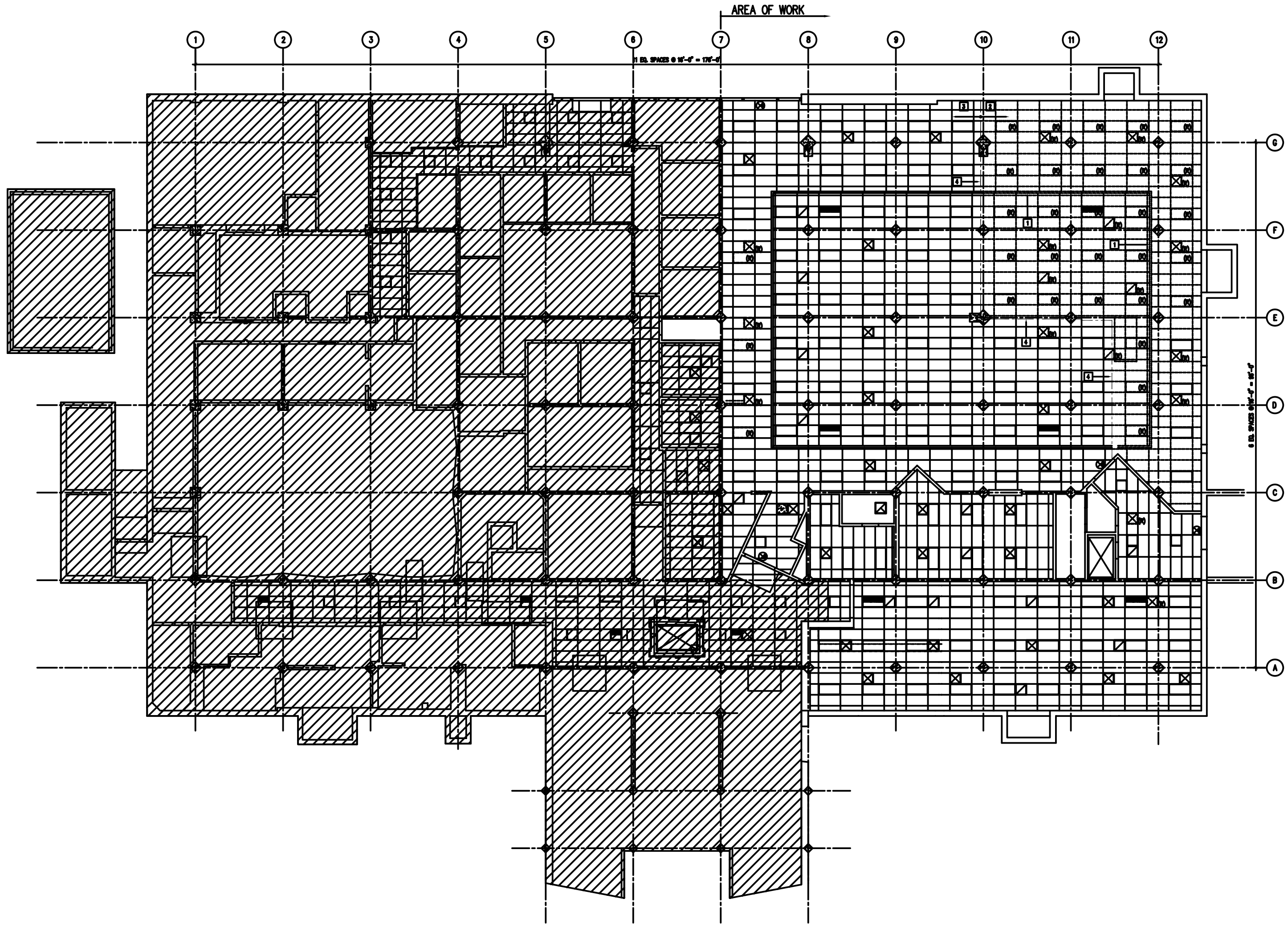
COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 0227.00
file name: 0221_bp.dwg
drawn by: checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/05	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1
	3/31/06	BULLETIN 4

drawing title: building no.9
FIRST FLOOR PLAN

drawing no.:
A2.21
drawing # of #



GROUND FLOOR REFLECTED CEILING DEMOLITION PLAN

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

KEY NOTES

1. REMOVE (E) SOFFIT, FOR EXTENT OF DEMOLITION COORDINATE WITH NEW CONDITION DRAWING SHEET A3.20-GROUND FLOOR REFLECTED CEILING PLAN.
2. REMOVE (E) SUSPENDED ACOUSTIC CEILING AND GRID.
3. (E) CEILING TO REMAIN
4. CUT BACK/ MODIFY EXISTING SUSPENDED ACOUSTIC CEILING AS REQUIRED FOR NEW WORK AND PATCH BACK/INFILL AS REQUIRED. SEE FLOOR PLAN SHEET A2.20 FOR LOCATION AND RCP SHEET A3.20.

SYMBOLS – REFLECTED CEILING PLAN

- ACOUSTICAL CEILING GRID, VERIFY ADUQUACY OF GRID ANCHORAGES & ATTACHMENT WIRES PER DETAILS AT SHEET 5.01 (DASHED LINE SHOWN DEMO OF (E) GRID)
- (R) REMOVE/ RELOCATE/ REWIRE
- 6" x 4' FLUORESCENT FIXTURE
- 1' x 4' RECESS FLUORESCENT FIXTURE
- 2' x 4' RECESS FLUORESCENT LIGHTING FIXTURE
- 2' x 4' RECESS FLUORESCENT LIGHTING FIXTURE– EMERGENCY LIGHTS
- 16" DIA RECESSED FIXTURE WITH OPALINE GLASS DIFFUSER
- 12" x 12" CEILING MOUNTED FIXTURE
- EXIT SIGN
- MECHANICAL REGISTER RETURN
- MECHANICAL REGISTER SUPPLY
- MECHANICAL REGISTER EXHAUST
- NOT PART OF SCOPE " EXCEPT FOR FIRE ALARM UPGRADE PER SHEET E4.2 ."

NOTE:

1. ALL SYMBOLS SHOWN ARE (E) U.N.O. REMOVED/ RELOCATED ITEMS WILL BE SHOWN DASHED
2. MECHANICAL GRILLES, REGISTERS, EXTERIOR LOUVERS AND ELECTRICAL FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. VERIFY QUANTITY AND SIZES WITH MECHANICAL OR ELECTRICAL DRAWINGS.
3. SEE DETAIL SHEET 5.01 FOR DETAILS OF ACOUSTIC TILE CEILING SYSTEMS AND CEILING NOTES.
4. FOR CEILING FINISHES AND HEIGHTS SEE SHEETS 9.01

architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01-105611
file: 41-C1
AC FLS SS
DATE

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

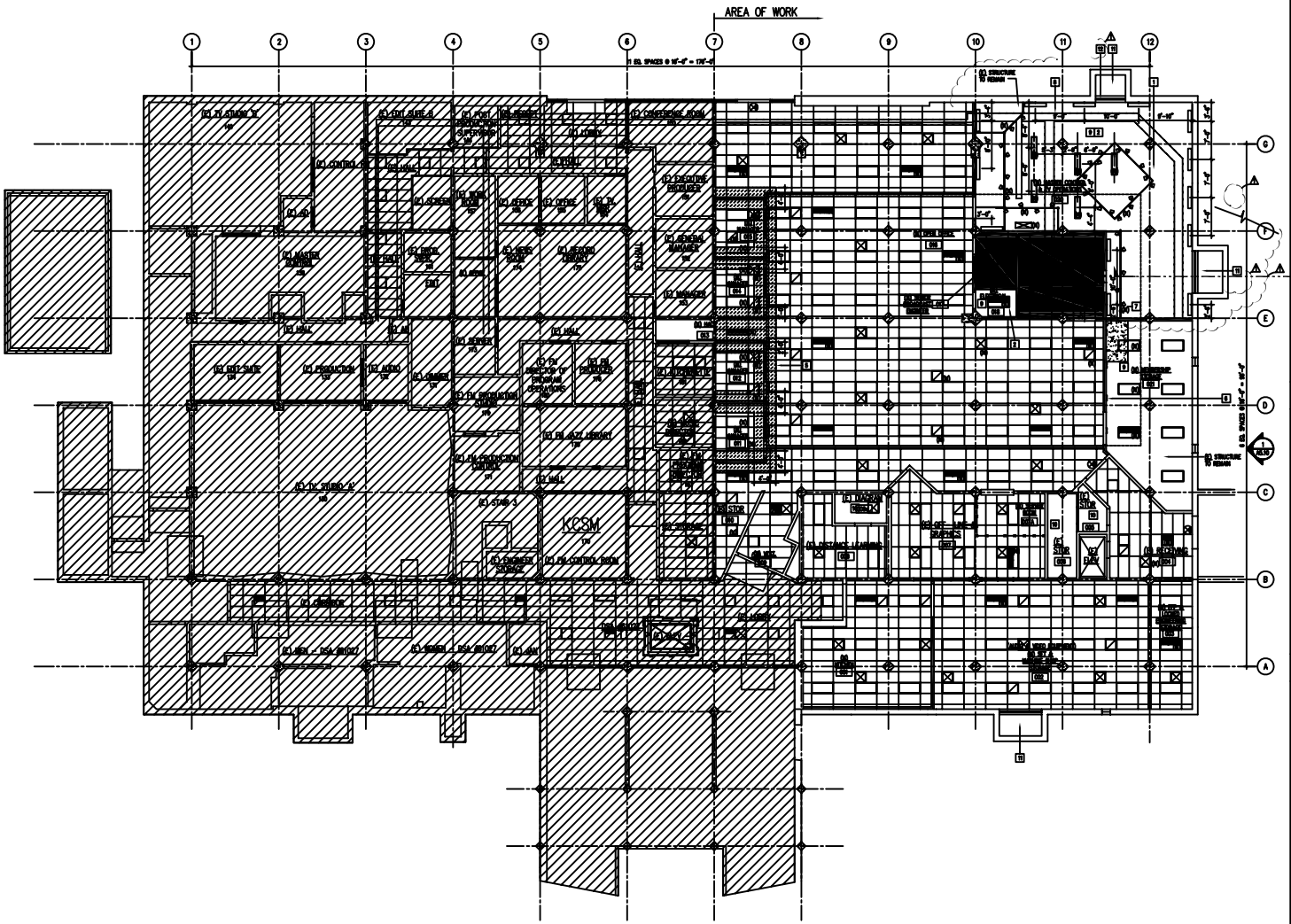
tBP project number: 03572.00		
file name: 0310_Odmo.dwg		
drawn by: JM	checked by:	
date: October 21, 2005		
Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK

drawing title: GROUND FLOOR DEMOLITION RCP

building no. 9

drawing no.: A3.10

drawing 7 of 31



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

KEY NOTES

1. (N) MECHANICAL DUCT WORK – PAINT BLACK, S.M.D.
2. FOR NEW, EXISTING OR REUSE LIGHTING FIXTURE MOUNTING HEIGHT IN THIS ROOM, SEE DETAIL 4/A9.10
3. NOT USED
4. NOT USED
5. MATCHING DIAMETER (N) 4" WIDE ACOUSTICAL INSULATION INSTALL ABOVE CEILING. CENTERLINE OF INSULATION ALIGN WITH CENTERLINE OF WALL BELOW.
6. (4)12" x 24" (N) OPENINGS EQUAL SPACED. OPENINGS SHALL BE LOCATED 6" ABOVE CEILING LINE (FROM OTHER ROOM). A GRILL COVERING SHALL BE MOUNTED OVER THE OPENINGS
7. (N) AC-DUCT/UNIT SEE SHT. A2.20 & DETAIL 15/A9.10
8. LINE OF (N) CABLE TRAY ABOVE - APPROX 7'-0" FROM FLOOR (ABOVE CEILING). ENTIRE CABLE TRAY SHALL BE PART OF THIS PACKAGE. S.E.D. FOR BALANCE OF DATA ON TRAY.
9. CEILING OPEN TO STRUCTURE ABOVE
10. NO WORK IN THIS AREA
11. PAINT LIGHT WELLS MALIBU BEIGE (3)
12. (N) LOUVER– SEE DETAIL 11/ A.09

NOTE: SEE DETAIL 6/A9.10 FOR LIGHTING HEIGHT DIAGRAM, CONTRACTOR TO COORDINATE THE EXACT LOCATION OF THE LIGHT FIXTURES WITH THE DUCTWORK, CABLE TRAY AND ALL OTHER TRADES.

GENERAL NOTE

1. CONTRACTOR TO PAINT (E) MECHANICAL REGISTERS

SYMBOLS – REFLECTED CEILING PLAN

- (N) — NEW/ NEW LOCATION OF (E)
- NEW 2'X4' ACOUSTICAL CEILING GRID, SEE SHEET S.01
- 6" x 4' FLUORESCENT FIXTURE, S.E.D.
- 1' x 4' FLUORESCENT LIGHTING FIXTURE, S.E.D., SEE 4/A9.10
- 2' x 4' RECESS FLUORESCENT LIGHTING FIXTURE, S.E.D.
- 4' LENGTH WALL SURFACE MOUNT FLUORESCENT LIGHTING FIXTURE, S.E.D.
- 2' x 4' RECESS FLUORESCENT LIGHTING FIXTURE– EMERGENCY LIGHTS, S.E.D.
- TRACK LIGHTING, S.E.D., SEE DRAWING 4/A9.10
- 10" DIA RECESSED FIXTURE WITH OPALINE GLASS DIFFUSER, S.E.D.
- 12" x 12" CEILING MOUNTED FIXTURE, S.E.D.
- EXIT SIGN, S.E.D.
- MECHANICAL REGISTER RETURN, S.M.D.
- MECHANICAL REGISTER SUPPLY, S.M.D.
- MECHANICAL REGISTER EXHAUST, S.M.D.
- NOT PART OF SCOPE. * EXCEPT FOR FIRE ALARM UPGRADE FOR SHEET E4.1 *
- INSULATION INSTALLED IN CEILING 4'-0" OVER CENTER OF TOP OF WALLS

NOTE: ALL SYMBOLS SHOWN ARE (E) U.N.O.

MECHANICAL GRILLES, REGISTERS, EXTERIOR LOUVERS AND ELECTRICAL FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. VERIFY QUANTITY AND SIZES WITH MECHANICAL OR ELECTRICAL DRAWINGS.

SEE DETAIL SHEET – FOR DETAILS OF ACOUSTIC TILE CEILING SYSTEMS, CEILING NOTES AND SUSPENDED GYPSUM BOARD.

FOR CEILING FINISHES AND HEIGHTS SEE SHEETS S.01

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6400 fx: 925.246.6495

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

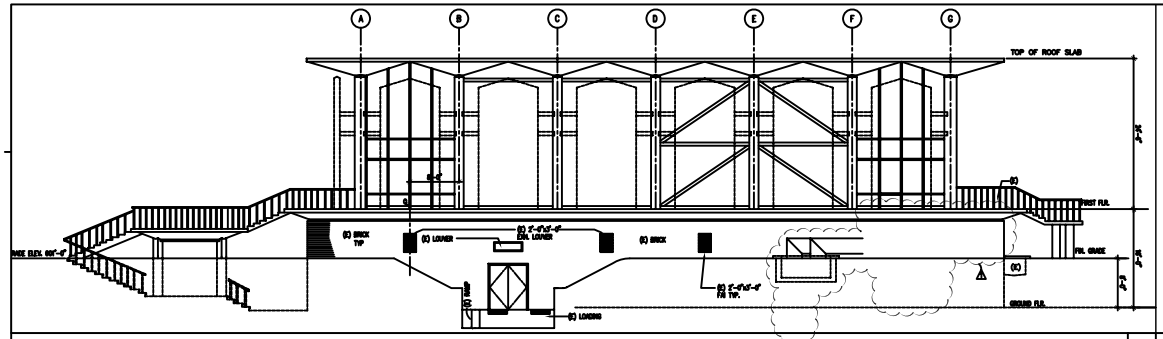
COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 03572.00
file name: 0310_Rcp.dwg
drawn by: checked by:
date: October 21, 2005

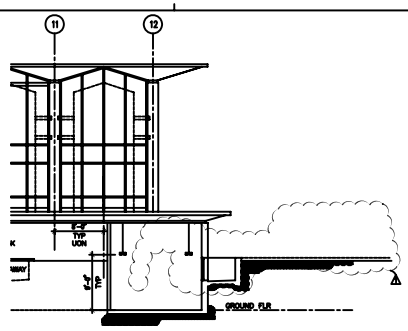
Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

drawing title: building no.9
GROUND FLOOR
REFLECTED CEILING PLAN

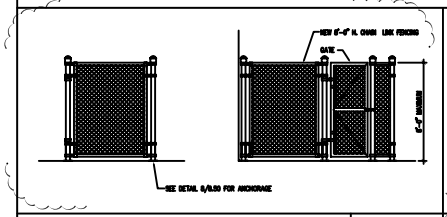
drawing no.:
A3.20
drawing 8 of 31



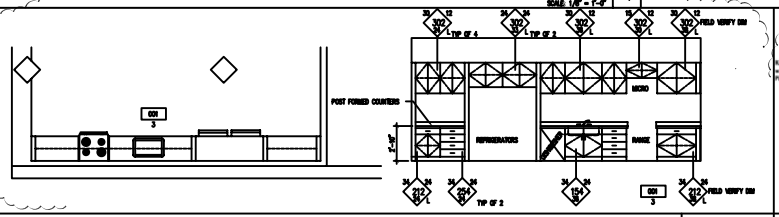
SOUTH ELEVATION 1



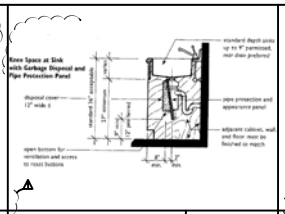
SECTION 2



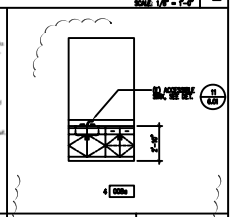
(E) OFF-LINE GRAPHICS 007



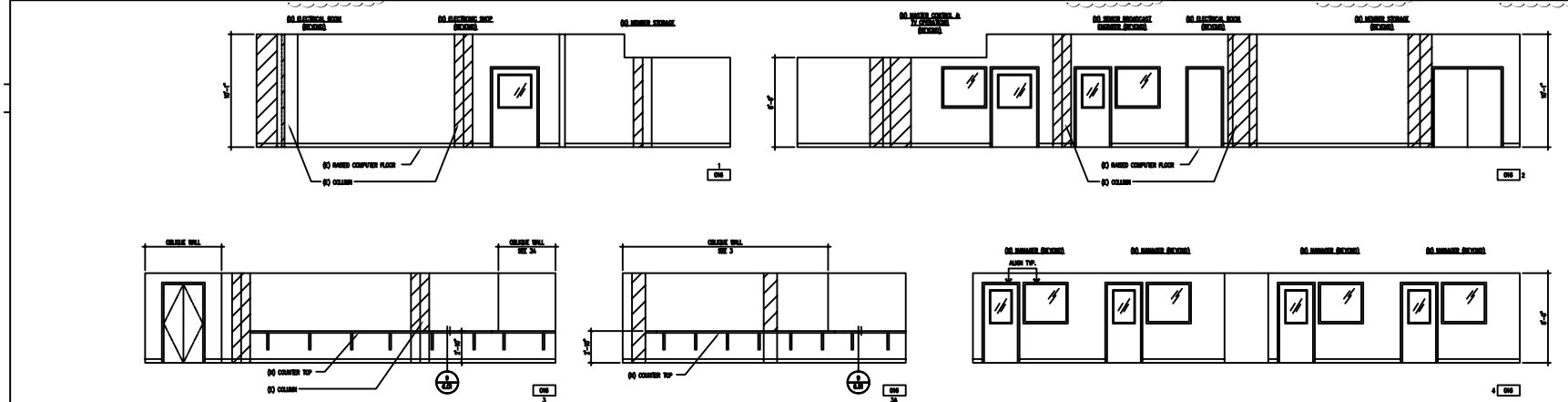
(N) ALTERNATE KITCHEN 001 ALT



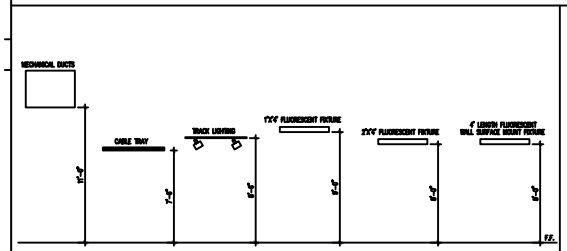
ACCESSIBLE SINK BBB



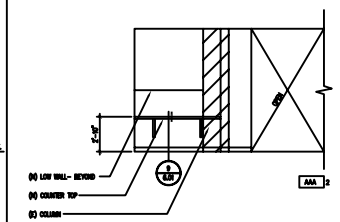
(E) DIAGRAM 008a



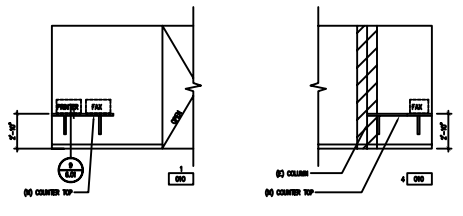
(N) OPEN AREA 016



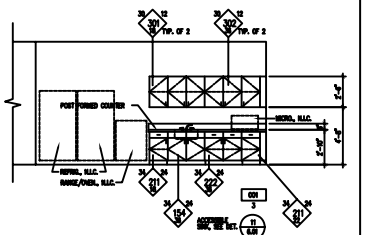
LIGHTING HEIGHTS 002



(N) OPEN AREA AAA



(N) COUNTER @ (E) STO. 010



(N) KITCHEN 001

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495
architecture
planning
interiors
management

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

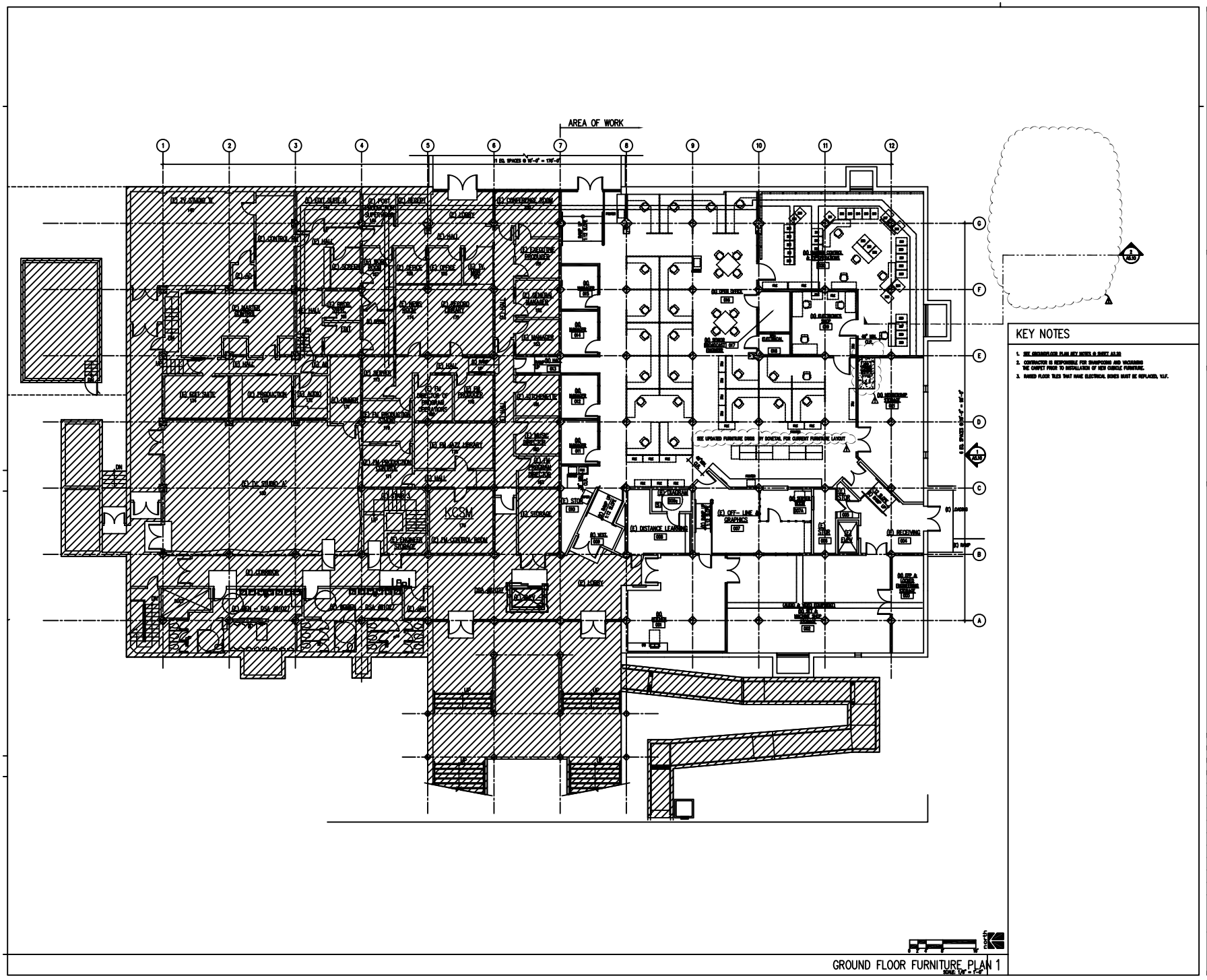
COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number
file name=
drawn by: checked by:
date:

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

drawing title: building no.9
EXTERIOR & INTERIOR ELEVATIONS

drawing no.:
A5.10
drawing # of #



GROUND FLOOR FURNITURE PLAN 1

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

KEY NOTES

1. SEE GROUND FLOOR PLAN KEY NOTES ON SHEET A9.20
2. CONTRACTOR IS RESPONSIBLE FOR SHAMPOOING AND VACUUMING THE CARPET PRIOR TO INSTALLATION OF NEW CUBICLE FURNITURE.
3. RAISED FLOOR TILES THAT HAVE ELECTRICAL BOXES MUST BE REPLACED, V.I.F.

tBP architecture planning interiors management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6400 fx: 925.246.6495

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 0207.00
file name: 0207_A9-1on.dwg
drawn by: checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

drawing title: building no.9
GROUND FLOOR FURNITURE PLAN

drawing no.:
A9.10
drawing 10 of 31

tBP
architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6400 fx: 925.246.6495

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL

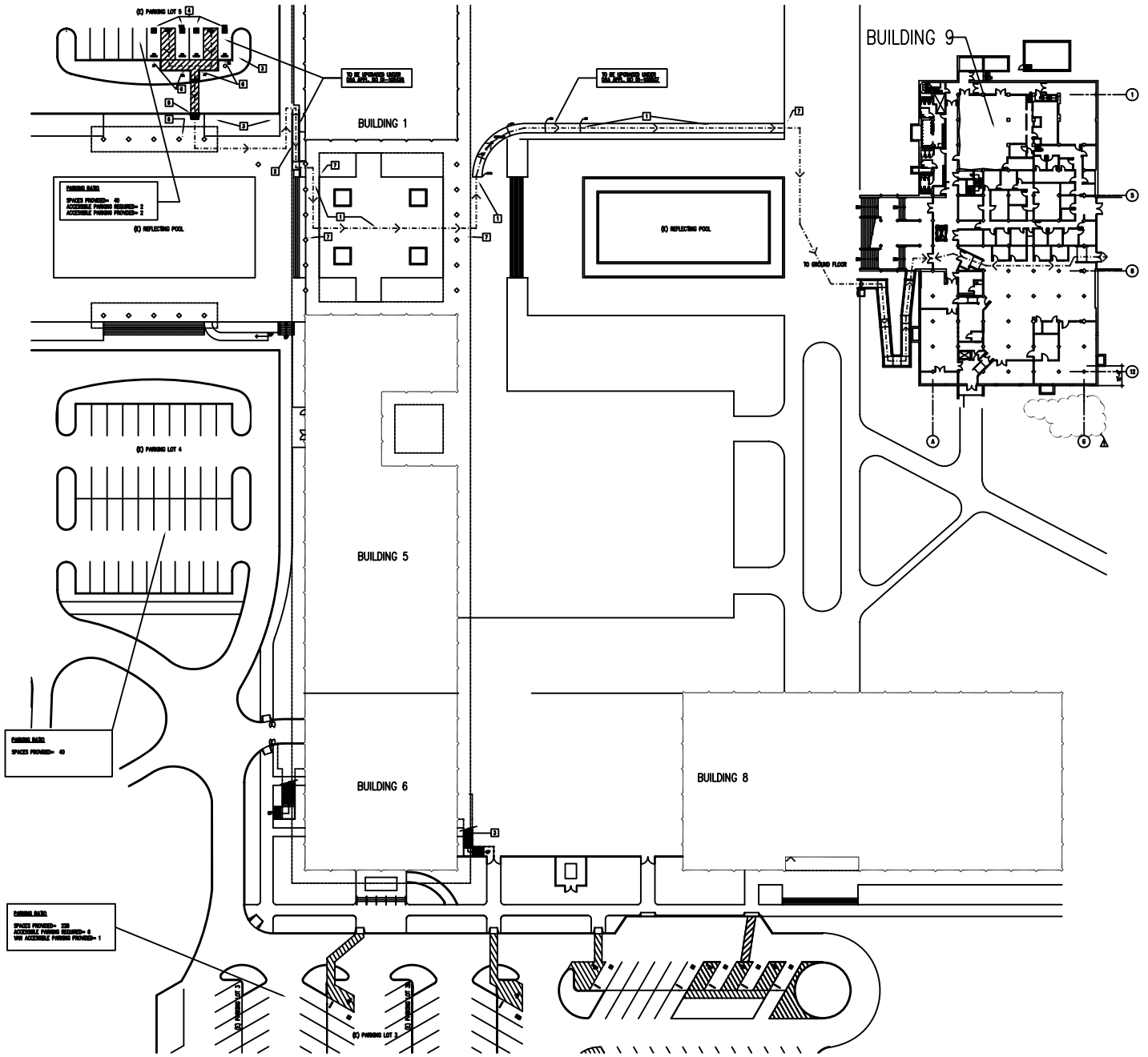
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 0557.00
file name: 0557-1.dwg
drawn by: checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	BULLETIN 1

drawing title: building no.9
CAMPUS SITE PLAN

drawing no.:
AS-1
drawing 3 of 31



PARTIAL SITE PLAN1

NOTES

1. (E) WALKWAY
2. (E) ACCESSIBLE RAMP (SLOPE 1:12, TOTAL RISE: 6in (6"-0") NEW HANDRAILS ADDED, TO BE ADA COMPLIANT (WORK UNDER SEPARATE DSA process NOT PART OF THIS SCOPE)
3. (E) LANDSCAPING
4. ACCESSIBLE PARKING SPACE (WORK DONE UNDER SEPARATE DSA process NOT PART OF THIS SCOPE)
5. CURB CUT TO BE ADA COMPLIANT (WORK UNDER SEPARATE DSA process NOT PART OF THIS SCOPE)
6. ACCESSIBLE PARKING SIGN (WORK DONE UNDER SEPARATE DSA process NOT PART OF THIS SCOPE),
7. (N) RAMP ACCESS SIGN SEE SEC. (A-2/T24)

GENERAL NOTES

1. THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE W/O ANY ABRUPT LEVEL CHANGES EXCEEDING 1/8" BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGE NOT EXCEEDING 1/4" MAX AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 1133B.
3. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/8" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAXIMUM CROSS SLOPE OF 2%.

LEGEND

ACCESSIBLE PATH OF TRAVEL

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495
architecture planning interiors management

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 03372.00
file name: AS-2.dwg
drawn by: RA checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	BULLETIN 1

drawing title: building no.: 9
ACCESSIBILE PATH OF TRAVEL

drawing no.: AS-2
drawing 4 of 31

1. ONE HOUR FIRE RESISTIVE CONSTRUCTION FOR INTERIOR PARTITIONS, AS NOTED ON PLANS, SEE WALL TYPE LEGEND, SHEET T-1 AND FLOOR PLANS, SHEETS A2.3X.
2. ALL GYPSUM WALL BOARD TO BE 5/8" THICK, AND TYPE 'X' WHERE REQUIRED FOR FIRE RESISTANT RATED ASSEMBLIES.
3. ALL INTERIOR PARTITIONS TO RECEIVE SOUND BATT INSULATION.
4. ALL STUDS SHALL CONFORM TO A.S.T.M. A490, A599, A570 AND A611 WITH MINIMUM YIELD POINT OF 33,000 P.S.I.
5. PROVIDE 14 GA. (50G) METAL STUDS WHERE LIGHT WEIGHT CONCRETE OR PATCHED BUILDING CONCRETE ARE ATTACHED TO STUD WALL. SEE DETAIL 25/A.01
6. ALL STUDS TO BE PLACED AT 16" O.C. (U.N.O.)
7. ALL METAL STUDS SHALL BE BY METAL STUD MANUFACTURERS ASSOCIATION, ICBO NO. 4943-P OR EQUAL.
8. ~~INTERIOR NONBEARING STUDS: 25 GA. GSP GALVANIZED STUDS AND TRACK PER ASTM A653 SS GR 33 G60 OR ASTM A792 SS GR 33 AZ50 (GALV.) AND ALL INTERIOR STUDS 20GA. SS. F=50 KSI, F=65 KSI (GALV.)~~
9. ~~SEE RELATED METAL STUDS FOR ALL EXTERIOR CONDITIONS.~~
10. ~~SEE SHEET A.01 FOR FIRE PROTECTION METAL STUD DETAILS.~~
11. X-DIE PINS SHALL BE BY HILTI, ICBO NO. 2388.
12. ~~ALL STUDS AT SHAFT WALLS TO BE 16" O.C.~~

METAL STUD NOTES 1

NOMINAL SIZE	CATALOG SIZE	MINIMUM PROPERTIES	
		I_x in^4	S_x in^3
~~3-5/8~~	~~600S137-43~~	~~0.770~~	~~0.395~~
4" x 16 GA.	600S137-54	0.853	0.477
~~4-1/8~~	~~600S137-33~~	~~1.160~~	~~0.555~~
~~4-1/8~~	~~600S137-43~~	~~0.942~~	~~0.570~~
6" x 16 GA.	600S137-54	2.253	0.839
~~6-1/4~~	~~600S137-33~~	~~3.054~~	~~1.109~~

METAL STUD SCHEDULE 2

STRUCTURAL DECK FASTENERS

DECK TYPE	FASTENERS: TRACK TO DECK OR TRACK TO STRAP	FASTENERS: STRAP TO DECK
DECK WITH STRUCT. CONC. FILL	2- X-DIE PINS *	X-DIE PIN EACH FLUTE *
DECK WITH INSULATING CONC. OR DECK WITHOUT ANY FILL	2- #8 SCREWS	#8 SCREWS EACH FLUTE

* 1" MIN. EMBEDMENT FOR OVERHEAD APPLICATION AND CONCRETE OVERDRIVE 1" MINIMUM EMBEDMENT.

STRUCTURAL LIGHT WEIGHT CONCRETE FASTENERS

DESCRIPTION	FASTENER TYPE	POWER SETTING	MIN. EDGE DIST. (in)	FASTENER INSTALLED IN CONC. OF THICKNESS (in)		FASTENER PENETRATION INTO SUPPORT MATERIAL (in)			
				2	2-1/2	3	4	5	6
DOME-HEAD NAIL	X-316	0.145	2	1-1/2	1-1/2	1-1/2	2	3	4
			3	1-1/2	1-1/2	1-1/2	2	3	4
			4	1-1/2	1-1/2	1-1/2	2	3	4
			6	1-1/2	1-1/2	1-1/2	2	3	4

1. THE ALLOWABLE SHEAR AND TENSION VALUES ARE FOR FASTENERS ONLY. WOOD AND STEEL MEMBERS ADMINISTERED MUST BE INVESTIGATED IN ACCORDANCE WITH ADOPTED DESIGN CRITERIA.
2. DECK MUST BE A MINIMUM NO. 20 GAGE (0.0359-INCH BARE STEEL)
3. LOWER FLUTE WIDTH MUST BE AT LEAST 4".

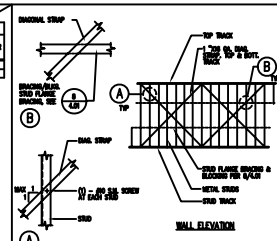
OMIT

ALLOWABLE WORKING VALUES FOR CEILING CLIP ASSEMBLIES

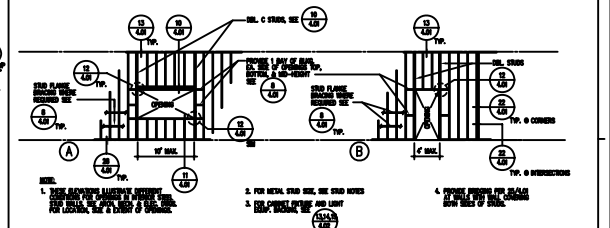
FASTENER TYPE	SHANK DIA. (in)	MIN. EMBED. (in)	NOMINAL WEIGHT CONCRETE: 4000 PSI			3000 PSI			MIN. FOR DIFFERENT CONC. STRENGTHS: LOWER FLUTE			UPPER FLUTE			SHEAR
			SHEAR	45°	PULLOUT	SHEAR	45°	PULLOUT	SHEAR	45°	PULLOUT	SHEAR	45°	PULLOUT	
CCD700X22PDT	0.145	15/16"	65	100	140	–	–	–	24	48	63	76	114	140	140

1. FASTENERS SHALL NOT BE DRIVEN UNTIL THE CONCRETE HAS REACHED THE DESIGNED ULTIMATE COMPRESSIVE STRENGTH.
2. DECK MUST BE A MINIMUM NO. 20 GAGE (0.0359-INCH BARE STEEL).
3. CONCRETE MATERIAL THICKNESS AT THE POINT OF PENETRATION MUST BE THREE TIMES THE FASTENER PENETRATION.
4. LOWER FLUTE WIDTH MUST BE AT LEAST 4".

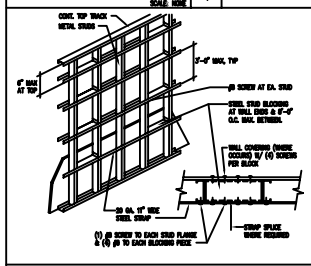
FASTENER SCHEDULE 3



METAL STUD BRACING 4



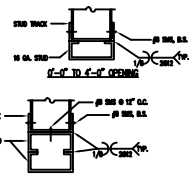
TYPICAL METAL STUD PARTITION ELEVATIONS 6



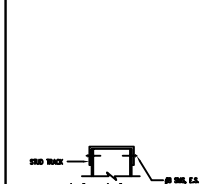
STUD FLANGE BRACING SCHEDULE	
WALL COVERING FINISHED ONE SIDE OF GRADE	STUD BRACING NOT REQUIRED PROVIDE BRIDGING PER 25/A.01
WALL COVERING FINISHED ONE SIDE OF GRADE	PROVIDE STUD BRACING PER THIS DETAIL
NO WALL COVERING EITHER SIDE OF GRADE	PROVIDE STUD BRACING PER THIS DETAIL AND ADDITIONAL BRACING PER 16/A.01

MINIMUM ATTACHMENT OF APPROVED WALL COVERAGE TO PROVIDE CONTINUOUS ASSURANCE LATERAL SUPPORT FOR STUD FLANGES	
WALL COVERING	ATTACHMENT
APPROVED LATHS FOR PLASTER	NO. 5 x 1" HEAD SHEET METAL SCREWS @ 7" (MAXIMUM) SPACED PER TABLE NO. 25-T-1, U.B.C.
SINGLE-PLY GYPSUM SHEATHING APPLIED OVER LATH	ATTACHMENT PER TABLE NO. 25A-1 U.B.C.
TWO-PLY GYPSUM SHEATHING	ATTACHMENT PER TABLE NO. 25A-1 U.B.C.
PLYWOOD	NO. 6 PHILLIPS BUGLE HEAD SCREWS OF PROPERLY SPACED PER TABLE NO. 25A-T-1-1 U.B.C.

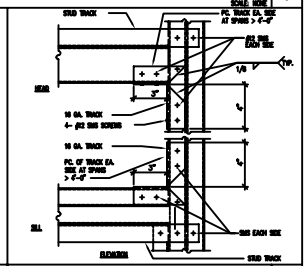
TYPICAL METAL STUD FLANGE BRACING 8



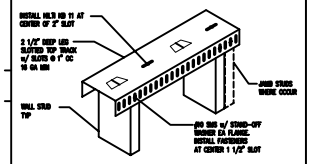
10



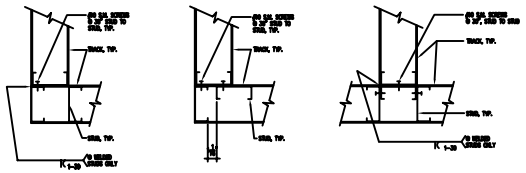
TYPICAL SILL SCHEDULE 11



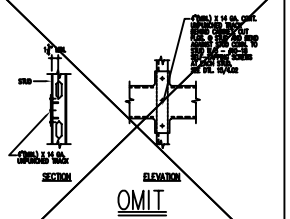
HEAD & SILL DETAILS AT JAMB 12



INTERIOR TOP TRACK 13

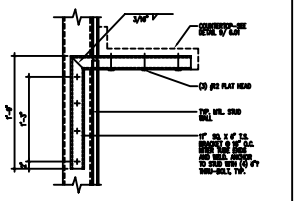


TYPICAL CORNER AND INTERSECTION CONNECTIONS 22

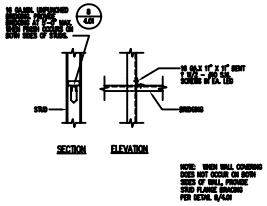


OMIT

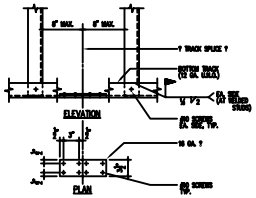
BACKING DETAIL 23



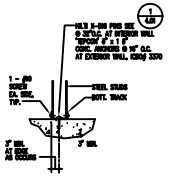
TYPICAL WALL HUNG COUNTER 24



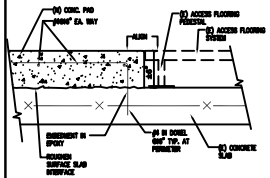
TYPICAL BRIDGING 25



BOTTOM TRACK SPLICE 26



NON-BEARING METAL STUD PARTITION 28



RAISED PAD/ SLAB TIE-IN DETAIL 30

tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6400 fx: 925.246.6495

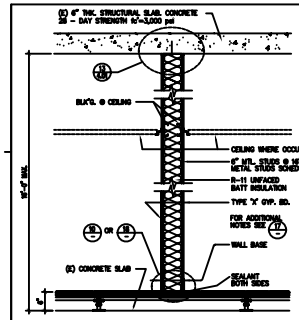
DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

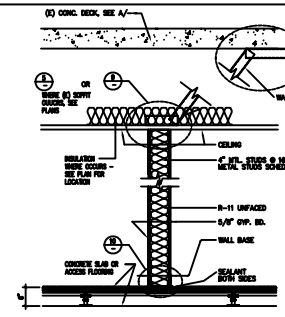
tBP project number: 0507.00
file name: BL-04XLDWG
drawn by: checked by:
date: October 31, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK

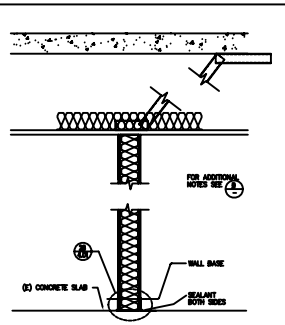
drawing title: building no.9
TYPICAL METAL STUD DETAILS
drawing no.: 4.01
drawing 11 of 31



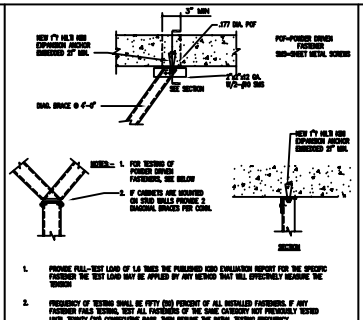
PARTITION – FULL HGT. A



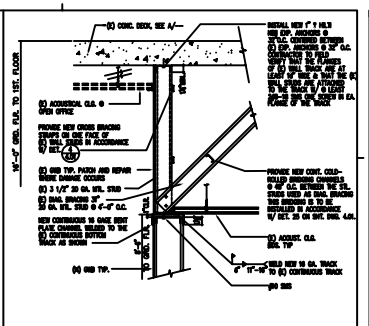
PARTITION – CEILING HGT. B



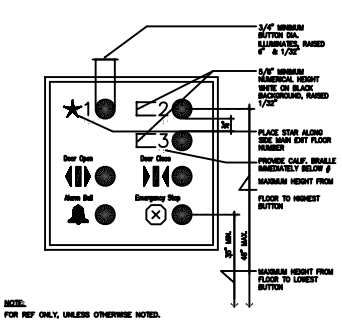
PARTITION – CEILING HT. C



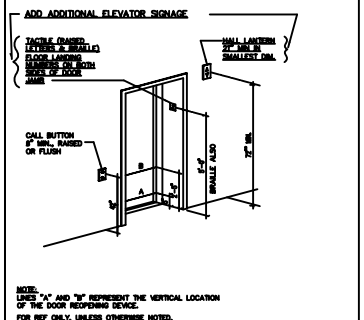
BRACE AT UNDERSIDE OF FLOOR 4



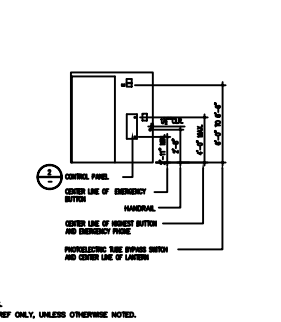
WALL @ SOFFIT DETAIL 5



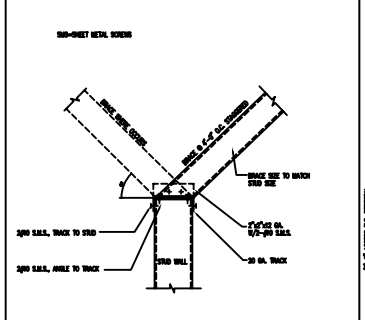
ELEVATOR CONTROL PANEL 6



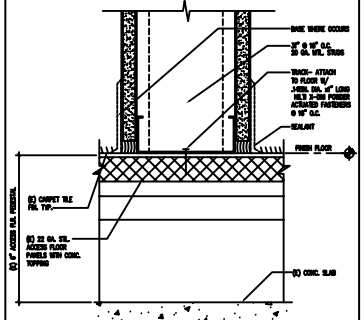
ELEVATOR CONTROLS & SIGNAGE 7



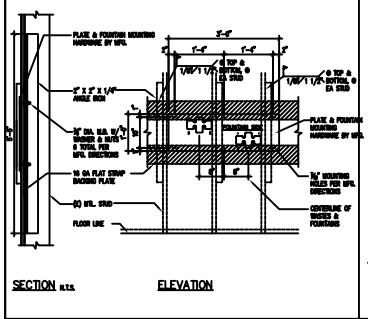
ELEVATOR CAB ELEVATIONS 8



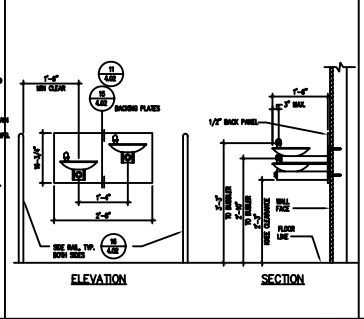
BRACE AT STUD TRACK 9



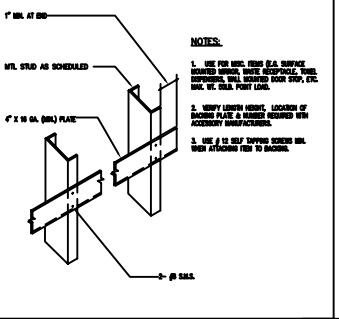
TYPICAL INTERIOR PARTITION BASE 10



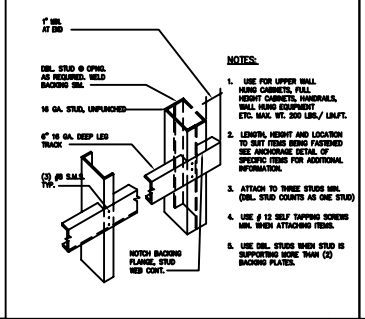
DRINKING FOUNTAIN MOUNTING PLATE DETAIL 11



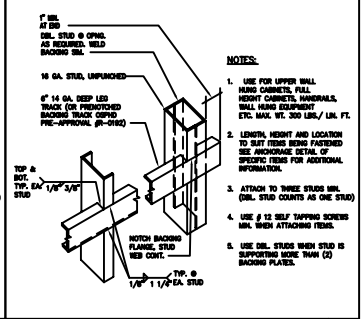
ACCESSIBLE DRINKING FOUNTAIN 12



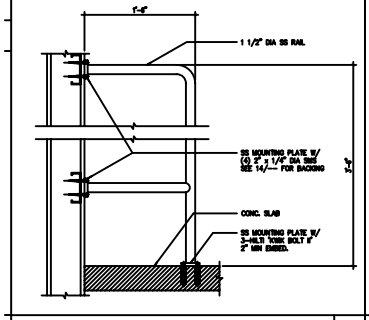
BACKING PLATE – TYPE 'A' 13



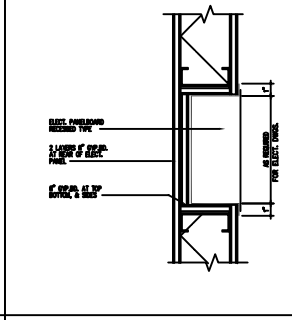
BACKING PLATE – TYPE "B" 14



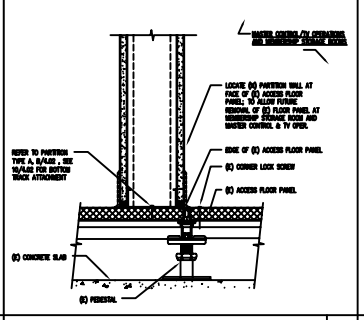
BACKING PLATE – TYPE "C" 15



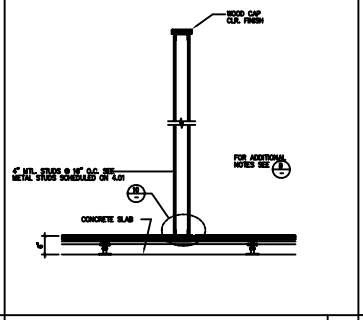
DRAINKING FOUNTAIN RAIL 16



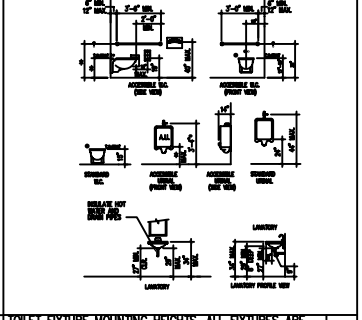
ELECTRICAL PANEL DETAIL 17



EDGE OF WALLS BASE AT ROOMS 020 & 021 18



PARTITION – LOW WALL 19



TOILET FIXTURE MOUNTING HEIGHTS. ALL FIXTURES ARE EXISTING, FOR REFERENCE ONLY, UNLESS OTHERWISE NOTED 20

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

architecture
planning
interiors
management

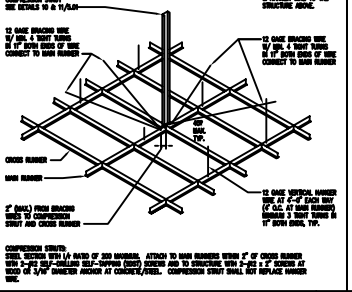
DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

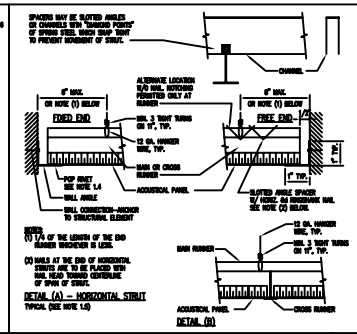
tBP project number: 0307.00
file name: D9-0402.dwg
drawn by: RA checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK

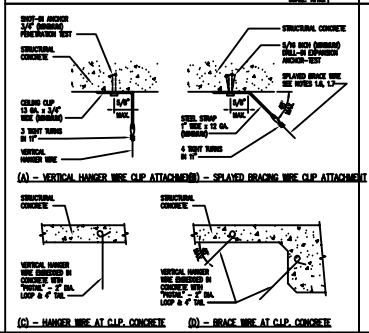
drawing title: building no.:
INTERIOR PARTITIONS & MISC. DETAILS
drawing no.: 4.02



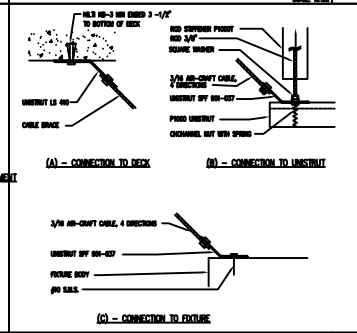
SUSPENDED CEILING BRACING SYSTEM 1



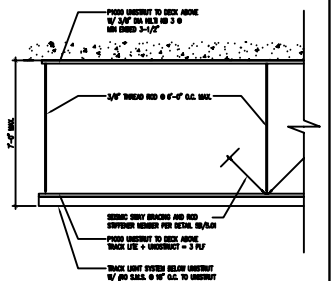
HANGER WIRE CONNECTION TO GRID 2



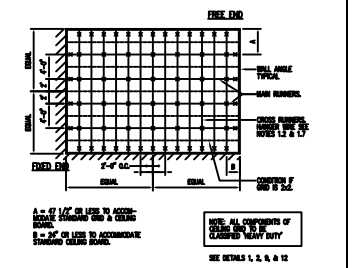
WIRE CONNECTIONS TO CONCRETE 4



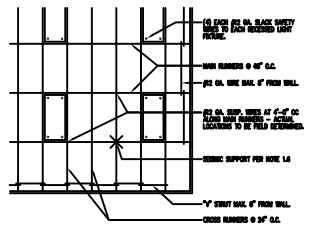
UNISTRUT CONNECTIONS 5



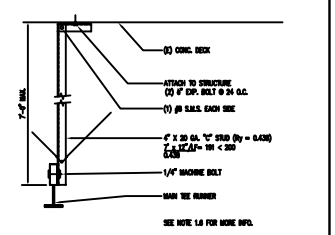
UNISTRUT SUPPORT @ LIGHTING 6



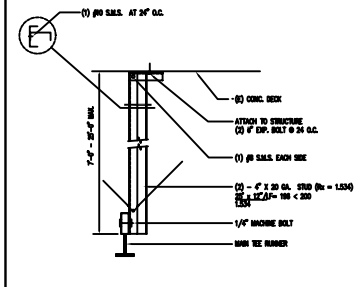
TYPICAL SUPPORT PLAN 8



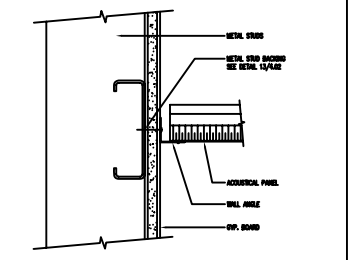
LATERAL BRACING PLAN 9



COMPRESSION STRUT (7' MAX.) 10



COMPRESSION POST, TYP. (7'–25' MAX.) 11



TYP. ACOUS. PANEL EDGE @ MTL .STUD WALL 12

GENERAL NOTES

1. CEILING NOTES. THE FOLLOWING NOTES WILL BE USED IN PLANS AND SPECIFICATIONS FOR CEILING SYSTEMS WHERE TOTAL WEIGHT, INCLUDING AIR CONDITIONING GRILLES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF. HANGER SYSTEMS AND THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS, WILL REQUIRE SPECIAL DESIGN DETAILS.

1.1 12 GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0"x4'-0" GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.

1.2 PROVIDE 12 GA. HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT INCHES (8") OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TILE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED VERTICAL AND HORIZONTAL FORCES MAY BE USED IN LIEU OF THE 12 GA. HANGER WIRES, SUBJECT TO DIVISION OR THE STATE ARCHITECT (DSA) REVIEW AND APPROVAL.

1.3 PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, SPACED OR BRACED AS REQUIRED, AT ALL CEILING OUTLETS, DIFFUSERS OR OBSCURATION AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO MAKE COUNTER SLOPING BENDS.

1.4 CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 1/2" FREE OF CROSS WALLS. 2" WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 1/2" CLEAR OF WALL.

1.5 AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 1 X 2 GA. SIDE WITH A FASTENER MECHANISM, CONNECTING TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, TO INTERLOCK IS NOT REQUIRED.

1.6 PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) 12 GA. SPLAYED BRACING WIRES ORIENTED IN OPPOSITE PAIRS FROM EACH CORNER (SEE DETAIL 1) AT THE FOLLOWING SPACINGS:

1. FOR SCHOOL BUILDINGS, PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12' BY 12' ON CENTER.
2. FOR ESSENTIAL SERVICES BUILDING, PLACE BRACING ASSEMBLIES NOT MORE THAN 6' BY 12' ON CENTER.
3. PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN ONE HALF (1/2) THE SPACING WHEN MOVED FROM EACH PERIMETER WALL AND AT EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE SAME. SPACES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
4. SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 48 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.

1.7 FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 6" INCHES. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS MAKE EQUAL REVOLUTIONS OR EIGHT IN SHORTEN CAN SHOW THE 6" REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.

1.8 SEPARATE ALL CEILING HANGERS AND BRACING WIRES AT LEAST SIX INCHES (6") FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. ATTACH LIGHTFIXTURE WIRES, SUCH AS SMALL ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.

1.9 WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE DSA SECTION 1633.1.6.

NOTE: DRILLED-IN OR SHOT-IN ANCHORS REQUIRE SPECIAL DSA APPROVAL WHEN USED IN PRESTRESSED CONCRETE.

1.10 ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS OR DEVICES, TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.

1.11 FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR DEVICES, WEIGHING LESS THAN 56 LBS., MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HANG A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4'x4' LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.

ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR DEVICES WEIGHING 56 LBS. OR MORE, MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT 12 GA. WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.

THE FOUR (4) TAUT 12 GA. WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

1.12 ALL FIXTURES AND AIR TERMINALS OR DEVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT 12 GA. WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL, AND TO THE STRUCTURE ABOVE.

1.13 SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA. WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.

PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 6'-0" OR LONGER.

1.14 SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE. A SEPARATE HANGER WIRE OR CABLE IS REQUIRED WHERE THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCES.

1.15 CLASSIFICATION OF CEILING GRID IS HEAVY DUTY (AS SPECIFIED).

2. ADDITIONAL REQUIREMENTS FOR FIRE RATED CEILINGS.

2.1 PROVIDE UNDERWRITER LABORATORY (U.L.) DESIGN NUMBER OR STATE FIRE MARSHAL (SFM) LISTING NUMBER. THE COMPONENTS AND INSTALLATION DETAILS MUST CONFORM IN EVERY RESPECT WITH THE U.L. OR SFM APPROVAL, FOR THE FIRE RESISTANCE RATING SPECIFIED. CERTAIN COMPONENTS FROM DIFFERENT APPROVED DESIGNS MAY HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY ARE NOT ACCEPTABLE.

2.2 FOR SCHOOLS AND ESSENTIAL SERVICES BUILDINGS, BRACING ASSEMBLIES ARE REQUIRED FOR EACH 96 SQUARE FEET. THE FIRST BRACING ASSEMBLY IS REQUIRED NOT MORE THAN FOUR FEET (4'-0") FROM EACH WALL. A MINIMUM OF ONE BRACING ASSEMBLY IS REQUIRED BETWEEN ANY TWO ADJACENT EXPANSION OR SEISMIC JOINTS OR SEISMIC BRACES.

2.3 POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY U.L. AND SFM.

3. ADDITIONAL REQUIREMENTS FOR METAL PANELS.
METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.

4. SUSPENDED ACOUSTICAL CEILINGS BELOW GYPSUM BOARD CEILINGS.
WHERE GYPSUM BOARD OR OTHER CEILING FINISHES ARE ATTACHED TO THE FRAMING, SPECIAL DETAILS WILL BE REQUIRED FOR THE VERTICAL HANGER WIRE AND LATERAL BRACING WIRE SUPPORT CONNECTIONS TO THE FRAMING.

5. REUSE OF EXISTING CEILING HANGER WIRES AND SPLAY WIRES.

5.1 THE GAGE AND SPACING OF THE WIRES MUST COMPLY WITH THE CURRENT APPLICABLE CODES.

5.2 ALL EXISTING CEILING HANGER WIRES MUST BE TESTED TO 200 LBS. IN TENSION.

5.3 ALL EXISTING SPLAYED BRACING WIRES MUST BE FIELD TESTED TO 440 LBS. IN TENSION.

5.4 IF A NEW WIRE IS TO BE SPLICED TO AN EXISTING WIRE, THE FOLLOWING IS REQUIRED:

1. THE ARCHITECT OR STRUCTURAL ENGINEER IS GENERAL RESPONSIBLE CHARGE MUST SUBMIT TO DSA A DETAIL AND SPECIFICATION DESCRIBING HOW THE SPLICE IS TO BE MADE.
2. ALL NEW WIRES, AFTER BEING SPLICED TO THE EXISTING WIRES, MUST BE FIELD TESTED PER ITEMS 5.2 AND 5.3 ABOVE.
3. ALL FIELD TESTS MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

6. LIST OF DSA PRODUCT APPROVALS FOR SUSPENDED ACOUSTICAL CEILING SYSTEM.

DSA PRODUCT
ACCEPTANCE NO.

PA-020 TEXTURA I AND TEXTURA II – FOAM BOARD, ACOUSTICAL BOARD AND SUSPENDED CEILING TILE.
PA-022 ARMSTRONG CASSETTES AND SERIES METAL CEILING SYSTEM
PA-026 CHICAGO METALLIC SUSPENDED CEILING SYSTEM
PA-029 USG DONN® DXSS SUSPENDED CEILING GRID SYSTEM
PA-041 ARMSTRONG WORLD INDUSTRIES SUSPENDED CEILING SYSTEM
PA-076 METALINE, PLANKLINE AND MAGNA T-CELL SUSPENDED CEILING SYSTEMS

NOTE: ALTERNATE MANUFACTURERS AND SYSTEMS MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF THE STATE ARCHITECT.

tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6400 fx: 925.246.6405

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

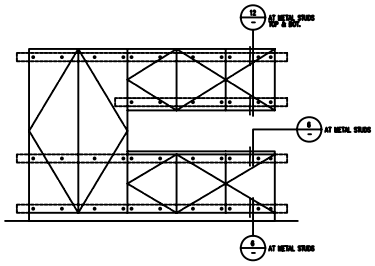
APPROVED
DIVISION OF THE STATE ARCHITECT
APP. 01-105611
INC. 01-01
BY: [illegible]
DATE: [illegible]

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 03127.00
file name: D9-0501.dwg
drawn by: RA checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK

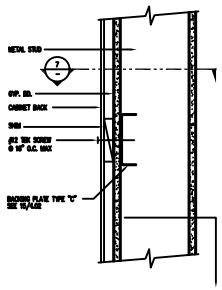
drawing title: building no.: 9
TYPICAL ACOUSTICAL PANEL CEILING DETAILS
drawing no.: 5.01
drawing 10f 31



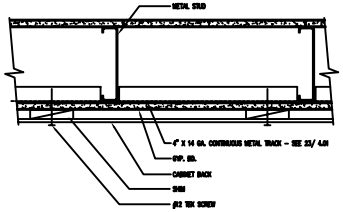
NOTES

1. (#2 LAG SCREWS (AT WOOD STUDS) OR (#2 TEK SCREWS (AT METAL STUDS) SPACE ANCHORS AT 16" O.C., MINIMUM OF ONE SCREW AT EACH TOP AND BOTTOM CORNER OF EACH CABINET UNIT.
2. SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR CABINET CONFIGURATION AND DIMENSIONS.
3. STUDS OF WALLS BACKING CABINETS SHALL RUN FROM SLAB TO STRUCTURE ABOVE.
4. AT CMU, PROVIDE 3/8"? X 3" LONG ITW RAWLET/REDHEAD DYNABOLT SLEEVE ANCHOR (1330 @ 1370)
5. SEE DETAIL 23/A.01 FOR WALL HUNG BACKING (@ METAL STUDS)

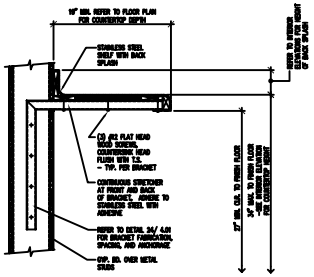
BACKING AND ANCHORAGE DETAIL 2



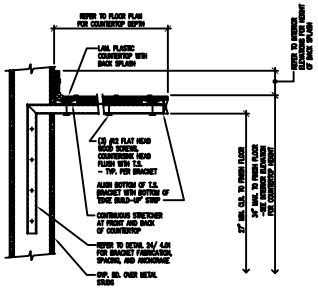
BACKING SECTION – METAL STUDS 6



BACKING SECTION – METAL STUDS 7



STAINLESS STEEL SHELF DETAIL 8



LAM. PLASTIC COUNTERTOP DETAIL 9

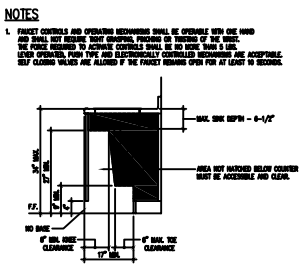
GENERAL NOTES

CASEWORK

1. ONLY THOSE CABINETS CALLED OUT ON BUILDING INTERIOR ELEVATIONS AND FLOOR PLANS SHALL BE PROVIDED.
2. DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS. IF NOT ELEVATED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. SWING "N" INDICATES REVERSE SWING.
3. ALL CABINET DIMENSIONS INDICATED ARE NOMINAL OUTSIDE DIMENSIONS, AND SHALL NOT BE EXCEEDED. (EXCEPTION – CABINETS ADJACENT TO WALLS MAY BE INCREASED IN LENGTH TO ELIMINATE THE NEED FOR FILLER STRIPS). A ¼" TOLERANCE IS PERMITTED ON DIMENSIONS OVER 48". FOR 48" AND SMALLER DIMENSIONS, TOLERANCE IS LIMITED TO ⅛". HEIGHT DIMENSION OF BASE CABINETS INCLUDES FINISHED TOP.
4. ALIGN SIDE OF CABINET WITH SIDE OF DOOR FRAME WHERE OCCURS.
5. PAPER AND CHART STORAGE UNITS SHALL BE 27" DEEP UNLESS OTHER WISE NOTED.

COUNTERTOPS AND BACKSPLASHES

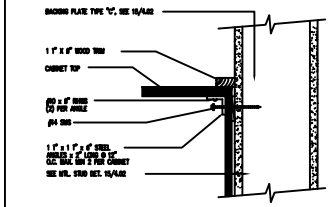
1. WHERE BACKSPLASH IS DESCRIBED, IT SHALL BE 4" HIGH @ NON-SINK AREAS & 6" HIGH OR TO UNDERSIDE OF UPPER CABINETS @ WET AREAS (SEE INTERIOR ELEVATIONS), TOP MOUNTED TYPE, HAVING SQUARE TOP WITH SHELF EDGE.



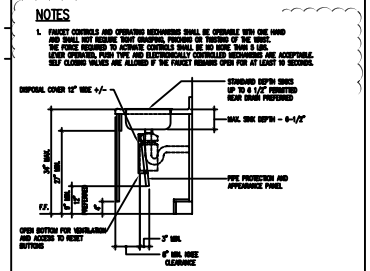
NOTES

1. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ACCESSIBLE SINK SECTION 11



UPPER CABINET TOP ATTACHMENT 12



NOTES

1. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ACCESSIBLE SINK SECTION w/ GARBAGE DISPOSAL 13

100 SERIES – BASE CABINET DESIGNS

BASE CABINETS

LENGTHS: 18, 18, 24, 33, 48

STD. HGTS: 18, 21, 24, 27, 30, 33, 36, 42, 45, 48 INCLUDING 6" TOP

ACCESSIBLE HT.: 30 WHERE INDICATED

DEPTHS: 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48

ALL SPACES AND DOORS ARE EQUAL IN SIZE
ONE ADJUSTABLE SHELF – EACH SECTION

ADJ. PIPE WITH PARTIAL 3" SHELF
STYLE 154

(OPEN TO FLOOR)
STYLE 160

SINKS

4" ACRYLIC SINGLE BOWL OR 6" DIPPED APRON

STORAGE

OPEN TO FLOOR
HARDWOOD SIDE GUIDES

300 SERIES – WALL HUNG CABINET DESIGNS

WALL HUNG CABINETS

LENGTHS: 18, 18, 24, 30, 48

HEIGHTS: 18, 21, 24, 30, 33, 36, 39, 42, 45, 48

DEPTHS: 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48

ALL SPACES AND DOORS EQUAL IN SIZE
ONE ADJUSTABLE SHELF – EACH SECTION

STYLE 301

STYLE 302

200 SERIES – DRAWER BASE CABINET DESIGNS

DRAWER BASE CABINETS

LENGTHS: 18, 18, 24, 33, 48

STD. HGTS: 24, 27, 30, 33, 36, 39, 42, 45, 48, 54, 60, 66 (INCLUDING 6" TOP)

ACCESSIBLE HT.: 30 WHERE INDICATED

DEPTHS: 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48

ONE ADJUSTABLE SHELF
ALL DOORS AND DRAWERS EQUAL IN WIDTH

STYLE 211

STYLE 222

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 8857.00
file name: 88-0901.dwg
drawn by: checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

drawing title: building no.: 9
TYPICAL CASEWORK DETAILS

drawing no.: 6.01
drawing 4 of 8

INTERIOR FINISH SCHEDULE

NO.	AREA NAME	FLOOR MATERIALS	BASE MATERIALS	BASE FINISH	EAST WALL MATERIALS	EAST WALL FINISH	SOUTH WALL MATERIALS	SOUTH WALL FINISH	WEST WALL MATERIALS	WEST WALL FINISH	NORTH WALL MATERIALS	NORTH WALL FINISH	CEILING MATERIALS	CEILING FINISH	CEILING HEIGHT	REMARKS
	GROUND FLOOR															
001	(N) KITCHEN	F-4	B-1	F	(E)	PES	W-1 / W-2	PES / PSG	(E)	PES / PSG	(E)	PES	(E)	-	(E)	REMOVE (E) CARPET
002	(N) SET & MACHINE SHOP STORAGE	F-3	B-1	F	(E)	PES	W-1	PES	(E)	PES	W-1	PES	(E)	-	(E)	REMOVE (E) CARPET
003	(N) EFP & LOCKED ENGINEERING STORAGE	F-3	B-1	F	(E)	PES	(E)	PES	(E)	PES	W-1	PES	(E)	-	(E)	REMOVE (E) CARPET
004	(E) RECEIVING	(E)	B-1	F	(E)	PES	(E)	PES	(E)	PES	W-1	PES	(E)	-	(E)	
005	(E) STORAGE	(NO WORK)							(E)	TO	REMAIN)					
006	(E) STORAGE	(NO WORK)							(E)	TO	REMAIN)					
007	(E) OFF- LINE GRAPHICS	(NO WORK)							(E)	TO	REMAIN)					
007A	(N) SERVER ROOM	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	(E)	PES	(E)	-	(E)	REMOVE (E) CARPET
008	(E) DISTANCE LEARNING	(E)	B-1	F	(E)	PES	(E)	PES	(E)	PES	W-1	PES	(E)	-	(E)	
009	(E) VESTIBULE	(E)	B-1	F	(E)	PES	(E)	PES	(E)	PES	W-1	PES	(E)	-	(E)	
010	(E) STORAGE	(E)	B-1	F	(E)	PES	(E)	PES	(E)	PES	W-1	PES	(E)	-	(E)	
011	(N) MANAGER	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	(E)	PES	(E)	-	8'-0"	
012	(N) MANAGER	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	(E)	PES	(E)	-	8'-0"	
013	(N) HALL	(E)	B-1	F	(E) / W-1	PES	-	-	(E) / W-1	PES	(E)	PES	(E)	-	(E)	
014	(N) MANAGER	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	(E)	PES	(E)	-	8'-0"	
015	(N) MANAGER	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	(E)	PES	(E)	-	8'-0"	
016	(N) OPEN OFFICE	(E)	B-1	F	(E) / W-1	PES	W-1	PES	(E) / W-1	PES	(E) / W-1	PES	(E)	-	(E)	
017	(N) SENIOR BROADCAST ENGINEER	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	W-1	PES	C-1	-	8'-0"	
018	(N) ELECTRICAL ROOM	(E)	B-1	F	W-1	TO	W-1	TO	W-1	TO	W-1	TO	C-2	-	-	FIXTURE TO BE HUNG @ 8'-0"
019	(N) ELECTRONICS SHOP	(E)	B-1	F	W-1	PES	W-1	PES	W-1	PES	W-1	PES	C-1	-	8'-0"	
020	(N) MASTER CONTROL & TV OPERATIONS	(E)	B-1	F	(E)	PES	(E)	PES	W-1	PES	W-1	PES	C-2	-	-	
021	(N) MEMBERSHIP STORAGE	(E)	B-1	F	W-1	PES	(E)	PES	(E)	PES	W-1	PES	C-2	-	-	

FINISH MATERIAL LEGEND

MARK:	MATERIALS:
FLOOR	
F-1	CARPET TILE
F-2	VINYL COMPOSITION TILE
F-3	CONCRETE SLAB- BEAD BLAST & SEAL
F-4	RESILIENT FLOORING

MARK:	MATERIALS:
BASE	
B-1	4" HIGH RESILIENT BASE

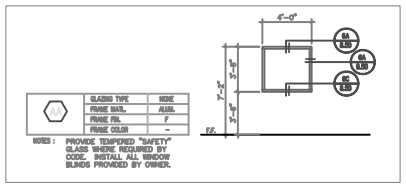
MARK:	MATERIALS:
WALL	
W-1	5/8" GYPSUM BOARD OVER MTL STUDS
W-2	5/8" WATER RESISTANCE GYPSUM BOARD OVER MTL STUDS

MARK:	MATERIALS:
CEILING	
C-1	(N) 24" X 48" SUSPENDED ACOUSTIC PANEL CEILING
C-2	EXPOSED TO (E) STRUCTURE ABOVE

FINISH SCHEDULE ABBREVIATIONS

AC	ACOUSTICAL CEILING	EPOXY	EPOXY	EP	EPOXY PAINT	RESIL	RESILIENT
AFF	ABOVE FINISH FLOOR	EXPSD	EXPOSED	PES	PAINT EGG SHELL	SF	SATIN FINISH
BD	BOARD	F	FACTORY FINISH	PF	PAINT FLAT	SLR	SEALER
CMT	CERAMIC MOSAIC TILE	FRP	FIBER REINFORCED PLASTIC PANEL	PCB	PAINT CEILING BLACK	SV	SHEET VINYL
CMU	CONCRETE MASONRY UNIT	GL	GLASS	PG	PAINT GLOSS	TO	TAPE ONLY
CONC	CONCRETE	GYP	GYPSUM	PNL	PANEL	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE	MTL	METAL	PSG	PAINT SEMI GLOSS	VFWC	VINYL FABRIC WALL COVERING
				QT	QUARRY TILE		

WINDOW SCHEDULE



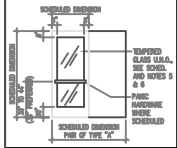
NOTES: PROVIDE TEMPERED "SAFETY" GLASS WHERE REQUIRED BY CODE. INSTALL ALL WINDOW BLINDS PROVIDED BY OWNER.

DOOR SCHEDULE ABBREVIATIONS

AFP	ACCORDION TYPE PARTITION	LAQ	LACQUER FINISH
ALUM	ALUMINUM	MCNL	MINERAL CORE NATURAL FINISH
AS	ACID STAIN	MCP	MINERAL CORE PAINT FINISH
ATFD	ACCORDION TYPE FIRE DOOR	PE	PAINT EGGSHELL
CSC	COLLEGE STANDARD COLORS	PF	PAINT FLAT
DP	DEMOUNTABLE PARTITION	PG	PAINT GLOSS
(E)	EXISTING	PJH.	EMERGENCY EGRESS HARDWARE
EP	EPOXY PAINT	PS	PREFINISHED STEEL
F	FACTORY FINISH	PSG.	PAINT SEMI-GLOSS
FFD	FOLDING FABRIC DOOR	S.	SEAL
FPP	FOLDING PANEL PARTITION	SCNL	SOLID CORE NATURAL FINISH
FPWD	FOLDING PANEL WOOD DOOR	SCP	SOLID CORE PAINT FINISH
FRP	FIBERGLASS REINFORCED POLYESTER DOOR	SCPL	SOLID CORE PLASTIC LAMINATE
		SF	STAIN FINISH
GL	GLASS	SSTL.	STAINLESS STEEL
HCN.	HOLLOW CORE NATURAL FINISH	STL	STEEL
HCP	HOLLOW CORE PAINT FINISH	UG.	UNGLAZED
HM.	HOLLOW METAL	VA.	VARNISH
		W	WAX
		WD	WOOD DOOR

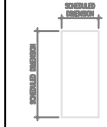
DOOR SCHEDULE

DOOR NO.	HARD-WARE GROUP	DIMENSION WIDTH	DIMENSION HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FINISH	DOOR COLOR	FRAME MAT.	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS TRANSOM	DETAILS JAMB	DETAILS THRESHOLD	DOOR ASSEMBLY RATING	REMARKS	SIGNAGE TEXT	SIGNAGE DETAIL
	GROUND FLOOR																	
001	01	PR 3'-0"	7'-0"	(E) D	WD	-	-	(E) MTL	-	-					20 MIN		TBD	4 11.01
002	02	PR 3'-0"	7'-0"	(E) D	WD	-	-	(E) MTL	-	-				9 8.50	20 MIN		TBD	4 11.01
003				(EXISTING)														
004				(EXISTING)									2 8.50					
005	03	3'-0"	7'-0"	(E) D	WD	-	-	(E) MTL	-	-				9 8.50	-		TBD	4 11.01
005A		3'-0"	7'-0"	C	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
006	03	3'-0"	7'-0"	(E) D	WD	-	-	(E) MTL	-	-				9 8.50	-		TBD	4 11.01
007	01	PR 3'-0"	7'-0"	D	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	4 11.01
008	01	PR 3'-0"	7'-0"	C	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	4 11.01
009	04	PR 3'-0"	7'-0"	(E) C	WD	-	-	(E) MTL	-	-							TBD	4 11.01
010	05	PR 3'-0"	7'-0"	C	FRP	-	-	(E) MTL	PAINT	CSC				7 8.50			TBD	4 11.01
011				(EXISTING)														
012				(EXISTING)														
013	02A	PR 3'-0"	7'-0"	(E) C	WD	-	-	(E) MTL	-	-							TBD	4 11.01
014	02	PR 3'-0"	7'-0"	C	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
015	03	4'-0"	7'-0"	D	SCN	-		HM	PSG		2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
016	04	4'-0"	7'-0"	D	SCN	-		HM	PSG		2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
017	05	3'-0"	7'-0"	C	SCN	-		HM	PSG		2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
018	06	3'-0"	7'-0"	D	SCN	-		HM	PSG		2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
019	03	4'-0"	7'-0"	D	SCN	-		HM	PSG		2 8.50		2 8.50	9 8.50	NON RATED		TBD	4 11.01
021	06	3'-0"	7'-0"	D	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
022	06	3'-0"	7'-0"	D	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
023				(EXISTING)													TBD	3 11.01
024	06	3'-0"	7'-0"	D	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
025	06	3'-0"	7'-0"	D	SCN	-		HM	PSG	BLUE/GRAY	2 8.50		2 8.50	9 8.50	NON RATED		TBD	3 11.01
030	07	PR 3'-6"	8'-0"	A	ALUM	F	CSC	ALUM	F	CSC							TBD	4 11.01
031	08A	PR 3'-6"	8'-0"	A	ALUM	F	CSC	ALUM	F	CSC							TBD	4 11.01
032	03A	3'-0"	7'-0"	(E) D	WD	-	-	(E) MTL	PAINT	CSC					20 MIN		TBD	4 11.01
033	03A	3'-0"	7'-0"	(E) C	WD	-	-	(E) MTL	PAINT	CSC					60 MIN		TBD	4 11.01
034	03B	3'-0"	8'-0"	(E) C	WD	-	-	(E) MTL	PAINT	CSC					20 MIN	(E) SOUND DOOR	TBD	4 11.01
035	09	PR 3'-0"	7'-0"	(E) C	WD			(E) MTL	PAINT	CSC						(E) SOUND DOOR	TBD	4 11.01
036	08	PR 3'-0"	7'-0"	C	HM	PAINT	CSC	MTL.	PAINT	CSC							TBD	4 11.01
037	05	PR 3'-0"	8'-0"	C	FRP	PAINT	CSC	(E) MTL	PAINT	CSC							TBD	3 11.01
038	06	PR 3'-6"	8'-0"	A	ALUM	F	CSC	ALUM	F	CSC							TBD	4 11.01
039	06	PR 3'-6"	8'-0"	A	ALUM	F	CSC	ALUM	F	CSC							TBD	4 11.01
	FIRST FLOOR																	
101	10	PR 3'-6"	7'-0"	(E) A	ALUM	F	-	(E) ALUM	-	-							TBD	4 11.01
102	10A	PR 3'-6"	7'-0"	(E) A	ALUM	F	-	(E) ALUM	-	-							TBD	4 11.01
103	09	PR 3'-6"	7'-0"	(E) A	ALUM	F	-	(E) ALUM	-	-							TBD	4 11.01
104	03A	3'-0"	7'-0"	(E) D	SCN	F	-	(E) MTL	PAINT	CSC					20 MIN		TBD	4 11.01
105	11	PR 3'-0"	7'-0"	(E) D	SCN	F	-	(E) MTL	PAINT	CSC					20 MIN		TBD	4 11.01
106	03A	3'-0"	7'-0"	(E) D	SCN	F	-	(E) MTL	PAINT	CSC					20 MIN		TBD	4 11.01
107	03	2'-8"	7'-0"	(E) C	SCN	F		(E) MTL	PAINT	CSC							TBD	4 11.01
108	04	PR 3'-0"	7'-0"	(E) C	SCN	F		(E) MTL	PAINT	CSC							TBD	4 11.01
109	03	3'-0"	7'-0"	(E) D	SCN	F		(E) MTL	PAINT	CSC							TBD	4 11.01

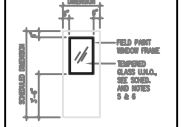


DOOR TYPE A

DOOR TYPE B



DOOR TYPE C



DOOR TYPE D

DOOR TYPE E

NOTES

1. DOORS SHALL BE 1-3/4" THICK, UNLESS NOTED OTHERWISE.
2. THE LETTER "PR" FOLLOWING THE "DOOR TYPE" DESIGNATION IN THE DOOR SCHEDULE INDICATES PAIR OF DOORS. BOTH DOOR LEAVES ARE THE SAME SIZE, UNLESS NOTED OTHERWISE.
3. THE LETTER "X" FOLLOWING THE "DOOR TYPE" LETTER IN THE DOOR SCHEDULE INDICATES A FIXED PANEL ABOVE DOOR LEAF. SCHEDULE DIMENSION INCLUDES PANEL, UNLESS NOTED OTHERWISE.
4. FIXED PANELS SHALL BE OF THE SAME MATERIAL, CONSTRUCTION, AND THICKNESS AS DOOR LEAF, AND SHALL BE PROVIDED BY THE SAME MANUFACTURER, UNLESS NOTED OTHERWISE.
5. THE LETTER "L" FOLLOWING "DOOR TYPE" DESIGNATION IN THE DOOR SCHEDULE INDICATES DOORS WITH LOUVERS. SEE DOOR TYPE FOR SIZE OF LOUVER.
6. LOUVERS IN EXTERIOR DOORS SHALL BE VANDAL-PROOF, SECURITY TYPE.
7. GLASS IN ALL FIRE RATED DOORS SHALL BE U.L. LISTED, 1/4" THICK, 45 MINUTE, WIRE GLASS, INSTALLED IN STEEL FRAMES.
8. GLASS IN NON-RATED EXTERIOR DOORS SHALL BE TINTED TEMPERED GLASS.
9. EXTERIOR DOOR REQUIREMENTS

   ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE:
   - EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
   - HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED 38" ABOVE FINISH FLOOR.
   - DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
   - ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1007.3.10).
   - ALL FIRE DOOR LABELS SHALL COMPLY WITH C.B.C. 713.3

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

architect

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

consultant

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

owner

tBP project number: 0337.00

file name: 00-0801.dwg

drawn by: checked by:

date: October 21, 2005

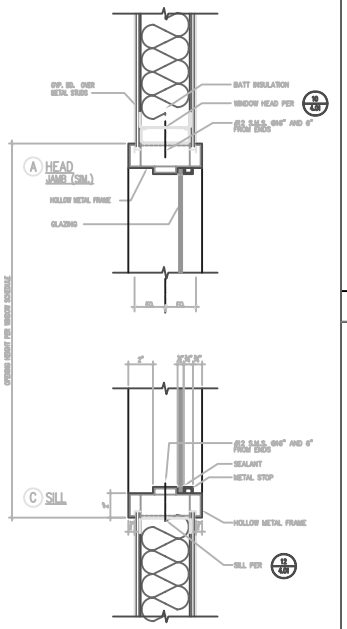
Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1
	3/31/06	BULLETIN 4

drawing title: building no.: 9

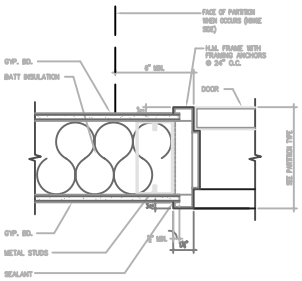
FINISH, WINDOW & DOOR SCHEDULE

drawing no.: 8.01

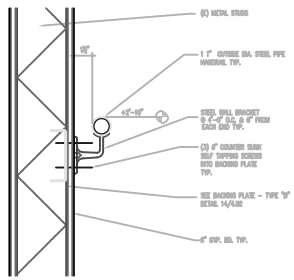
drawing 8 of 31



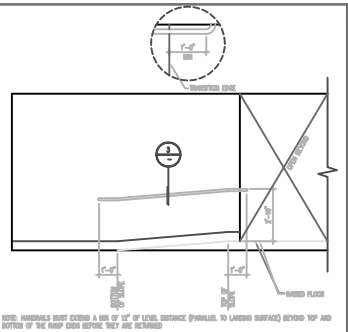
TYPICAL INTERIOR WINDOW DETAIL 6



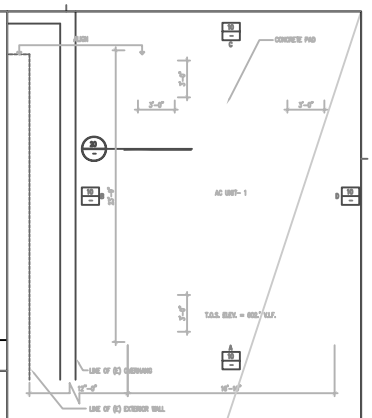
INTERIOR DOOR JAMB DETAIL (HEAD SIM) 2



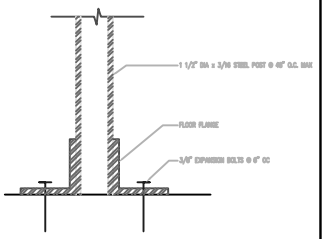
WALL MOUNTED HANDRAIL (INT.) 3



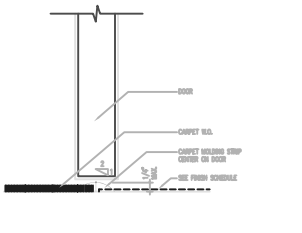
HANDRAIL DETAIL 4



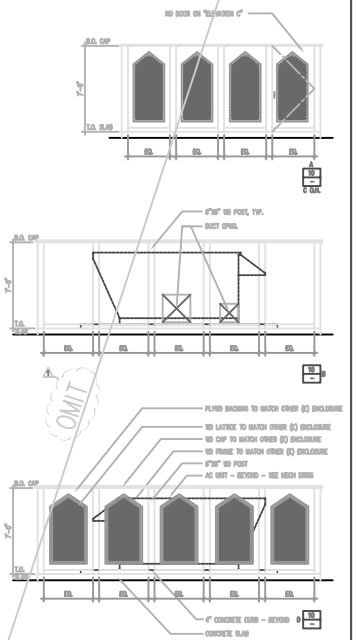
THRESHOLD DETAIL 7



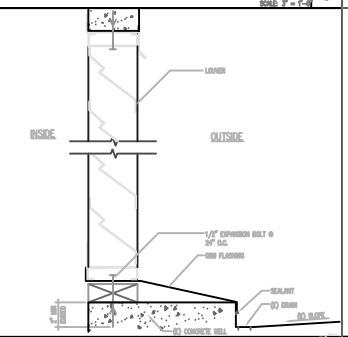
CHAINLINK ANCHORAGE 8



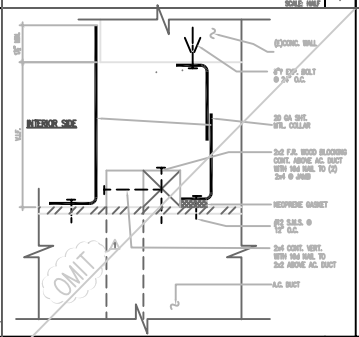
CARPET TRANSITION DETAIL 9



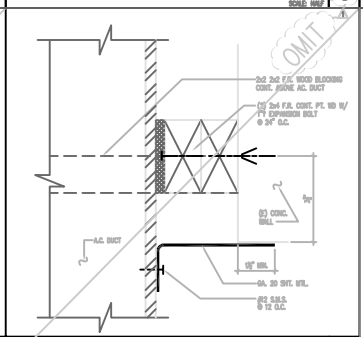
AC UNIT ENCLOSURE 15



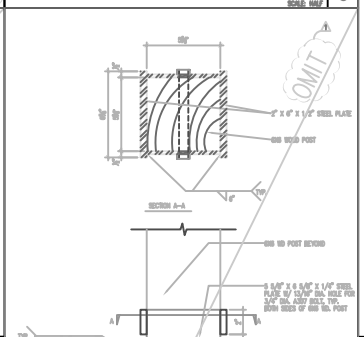
LOUVER 11

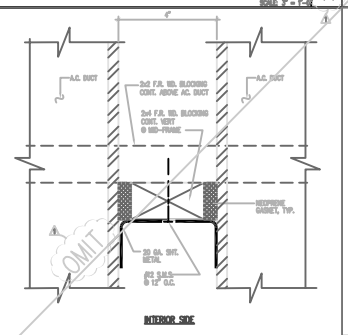


SECTION @ HEAD 12

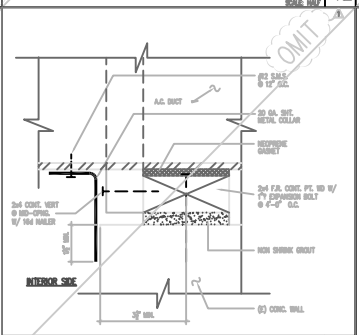


SECTION @ JAMB 13

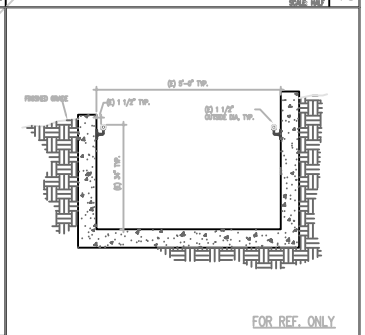




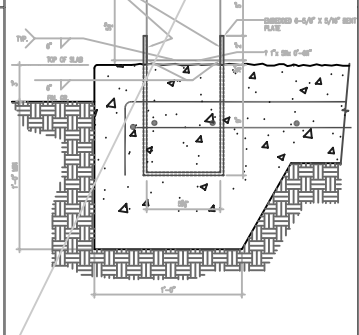
SECTION @ MID-FRAME OPNG. 16



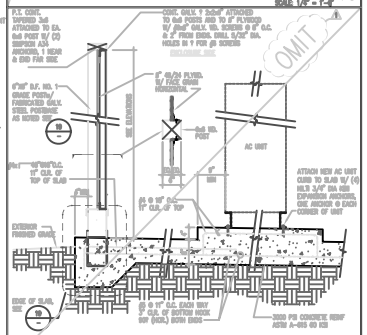
SECTION @ SILL 17



SECTION AT (E) RAMP 18



EDGE OF SLAB DETAIL 19



SECTION @ AC UNIT ENCLOSURE 20

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

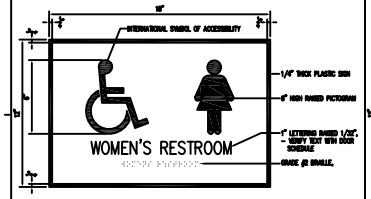
DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

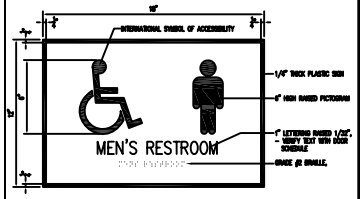
tBP project number: 0357.00
file name: D9-0850.dwg
drawn by: RA checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK
1	10/21/05	ADDENDUM 1

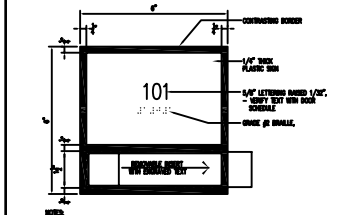
drawing title: DOOR AND WINDOW DETAILS & MISC. DETAILS
building no.: 9
drawing no.: 8.50
drawing 18 of 31



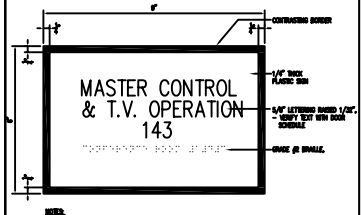
WALL-MOUNTED TOILET RM. SIGNAGE | 1



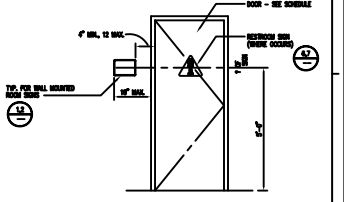
WALL-MOUNTED TOILET RM. SIGNAGE | 2



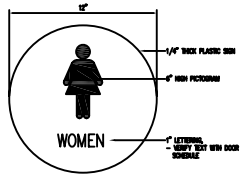
ROOM NUMBER SIGNAGE WITH INSERT | 3



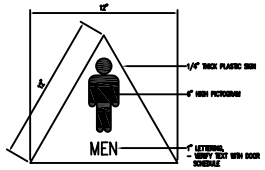
ROOM NAME/ NUMBER SIGNAGE | 4



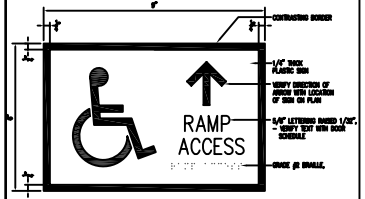
SIGNAGE LOCATION LEGEND | 5



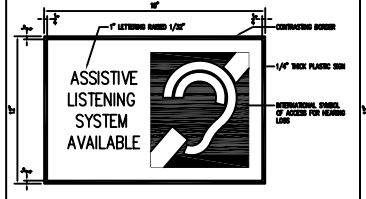
DOOR-MOUNTED TOILET RM. SIGNAGE | 6



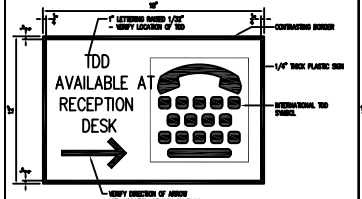
DOOR-MOUNTED TOILET RM. SIGNAGE | 7



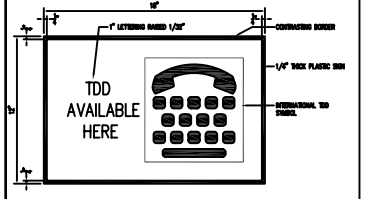
RAMP ACCESS SIGNAGE | 8



ASSISTIVE-LISTENING DEVICE SIGNAGE | 11



TDD DIRECTIONAL SIGNAGE | 12



TEXT TELEPHONE (TDD) SIGNAGE | 13

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
ph: 925.246.6419 fx: 925.246.6495

DIVISION OF THE STATE ARCHITECT
San Francisco Bay Area Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612
ph: 510.622.3101 fx: 510.622.3140

COLLEGE OF SAN MATEO
BUILDING 9
PARTIAL GROUND FLOOR REMODEL
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

tBP project number: 0307.00
file name: D9-1101.dwg
drawn by: RA checked by:
date: October 21, 2005

Rev:	date:	description:
	07/21/03	1ST DSA SUBMITTAL
	03/25/05	DSA BACKCHECK

drawing title: TYPICAL SIGNAGE
building no.: 9

drawing no.: 11.01
drawing 17 of 31

HVAC SYSTEM MODIFICATIONS

FOR

BUILDING 9 COLLEGE OF SAN MATEO

SAN MATEO, CALIFORNIA

Project No. : DWCES 31323

Chevron

Prepared by:

CHEVRON ENERGY SOLUTIONS COMPANY
A Division of Chevron U.S.A. Inc.

OCTOBER, 2005

MECHANICAL DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
M-01	COVER SHEET WITH DRAWING INDEX & KEY
M-02	BUILDING 9 ABBREVIATIONS, NOTES AND SYMBOLS
M-03	BUILDING 9 MECHANICAL EQUIPMENT SCHEDULE
M-04	BUILDING 9 DEMOLITION & NEW CONSTRUCTION BASEMENT PLAN
M-06	BUILDING 9 NEW CONSTRUCTION GROUND FLOOR PLAN
M-07	BUILDING 9 NEW CONSTRUCTION MEZZANINE LEVEL
M-08	BUILDING 9 MECHANICAL DETAILS
M-08A	BUILDING 9 MECHANICAL DETAILS AND SINGLE LINE DIAGRAMS
M-09	BUILDING 9 MECHANICAL CONTROL DIAGRAMS
M-10	BUILDING 9 SEQUENCE OF OPERATION

STRUCTURAL DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
S-1	GENERAL NOTES AND TYPICAL DETAILS
S-2	FRAMING PLANS, SECTIONS AND DETAILS

ELECTRICAL DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
E-01	XX
E-02	XX

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

Prepared by:
CHEVRON ENERGY SOLUTIONS COMPANY
A DIVISION OF CHEVRON U.S.A. INC.
345 CALIFORNIA STREET, 23rd FLOOR
SAN FRANCISCO, CA 94104
PH 415.733.4300

SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

BUILDING 9
COVER SHEET AND
DRAWING INDEX

PROJECT No.	1323
DESIGNED BY	M. FARSHCHI
DRAWN BY	PCP
CHECKED BY	M. DURHAM
DATE	06/01/06
CLIENT No.	34/36-4078
SHEET	M-01 1
SHEET QUAN.	M-01 2
SHEET QUAN.	M-01 3
FILE NAME	1323-M01H-COVER

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

M-01

MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

1.01 REFERENCE STANDARDS

A. PUBLISHED SPECIFICATIONS STANDARDS, TESTS OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENTAL ORGANIZATIONS APPLY TO WORK IN THIS SECTION WHERE CITED BELOW:

1. ASHRAE – AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS HANDBOOKS.

2. SMACNA – SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC.
a. DUCT CONSTRUCTION STANDARDS.
b. HVAC SYSTEMS TESTING ADJUSTING AND BALANCING.
c. HVAC SEISMIC BRACING GUIDELINES.

3. NEBB – NATIONAL ENVIRONMENTAL BALANCING BUREAU MANUAL: PROCEDURAL STANDARDS FOR TESTING – BALANCING – ADJUSTING OF ENVIRONMENTAL SYSTEMS.

4. AABC – ASSOCIATED AIR BALANCE COUNCIL MANUAL: NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE.

1.02 QUALITY ASSURANCE

A. ALL EQUIPMENT AND ACCESSORIES TO BE THE PRODUCT OF A MANUFACTURER REGULARLY ENGAGED IN ITS MANUFACTURE.

B. SUPPLY ALL EQUIPMENT AND ACCESSORIES NEW AND FREE FROM DEFECTS.

C. SUPPLY ALL EQUIPMENT AND ACCESSORIES IN COMPLIANCE WITH THE APPLICABLE STANDARDS LISTED IN ARTICLE 1.01 OF THIS SECTION AND WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

D. ALL ITEMS OF A GIVEN TYPE SHALL BE THE PRODUCTS OF THE SAME MANUFACTURER.

1.03 CODES

A. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE LOCAL BUILDING CODE.

B. IN ADDITION COMPLY WITH 2001 EDITIONS OF: CODE, CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE AND CALIFORNIA ELECTRICAL CODE.

1.04 SUBMITTALS

A. SUBMIT MINIMUM OF FOUR COPIES. TWO COPIES SHALL BE REFERENCE FOR THE OWNER.

B. SUBMIT PRODUCT DATA AND LITERATURE ON ALL MATERIALS AND EQUIPMENT TO BE INSTALLED.

C. CAREFULLY INDICATE SUBSTITUTIONS, SUBMIT SUBSTITUTIONS WITHIN ONE WEEK OF SIGNING CONTRACT.

D. SUBMIT ALL ITEMS IN A SINGLE PACKAGE, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.

E. SUBMIT CONTROL DIAGRAMS AND WIRING DIAGRAMS FOR ALL CONTROL SYSTEMS.

F. NOT USED.

G. AT THE END OF THE PROJECT, SUBMIT 2 COPIES OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT AND SYSTEMS.

1.05 JOB CONDITIONS

A. EXAMINE SITE RELATED WORK AND SURFACE BEFORE STARTING WORK OF ANY SECTION.

1. REPORT TO OWNER, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER PROVISIONS OF THIS WORK.

2. BEGINNING WORK OF ANY SECTION WITHOUT REPORTING UNSUITABLE CONDITIONS OF OWNER CONSTITUTES ACCEPTANCE OF CONDITIONS BY CONTRACTOR.

3. PERFORM ANY REQUIRED REMOVAL, REPAIR OR REPLACEMENT OF THIS WORK CAUSED BY UNSUITABLE CONDITIONS AT NO ADDITIONAL COST TO OWNER.

B. CONNECTIONS TO EXISTING WORK.

1. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM OF INTERFERENCE TO EXISTING FACILITIES.

2. TEMPORARY SHUTDOWNS OF EXISTING SERVICES.

a. AT NO ADDITIONAL CHANGES.
b. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES.
c. ONLY WITH WRITTEN CONSENT OF OWNER.

3. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.

4. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION.

C. REMOVAL AND RELOCATION OF EXISTING WORK.

1. DISCONNECT, REMOVE OR RELOCATE MATERIAL, EQUIPMENT, PIPING AND OTHER WORK NOTED AND REQUIRED BY REMOVAL OR CHANGES IN EXISTING CONSTRUCTION.

2. WHERE EXISTING PIPES, CONDUITS AND/OR DUCTS WHICH ARE TO REMAIN PREVENT INSTALLATION OF NEW WORK AS INDICATED, RELOCATE, OR ARRANGE FOR RELOCATION OF EXISTING PIPES, CONDUITS AND/OR DUCTS.

3. PROVIDE NEW MATERIAL AND EQUIPMENT REQUIRED FOR RELOCATED EQUIPMENT.

4. PLUG OR CAP ACTIVE PIPING OR DUCTWORK SEWING OR BELOW FINISH SURFACES.

5. DO NOT LEAVE LONG DEAD-END BRANCHES.
a. CAP OR PLUG AS CLOSE AS POSSIBLE TO ACTIVE LINE.

6. REMOVE UNUSED PIPING, DUCTWORK AND EQUIPMENT.

1.06 CUTTING AND PATCHING

A. PROVIDE ALL CARPENTRY, CUTTING AND PATCHING REQUIRED FOR PROPER INSTALLATION OF MATERIAL AND EQUIPMENT SPECIFIED.

B. DO NOT CUT OR DRILL STRUCTURAL MEMBERS WITHOUT CONSENT OF OWNER, SUBMIT A STRUCTURAL ANALYSIS SIGNED BY A REGISTERED STRUCTURAL ENGINEER HIRED BY CONTRACTOR.

PART 2 PRODUCTS

2.01 AIR HANDLING UNITS

A. AH-1, AH-2, AND AH-3

1. TRANE MODEL M AS SCHEDULED

2. THE UNIT SHALL BE COMPLETE WITH FANS, COILS, ECONOMIZER, AND DISCONNECT SWITCHES.

THE MODEL T UNITS SHALL BE OUTDOOR AND MODEL U INDOOR TYPE WITH DOUBLE WALL CONSTRUCTION. MINIMUM INSULATION SHALL BE R-13 AND THE EXTERIOR FACTORY PAINTING SHALL BE APPLIED IN ACCORDANCE WITH ASTM D117. DRAIN PAN SHALL BE IAQ TYPE AND STAINLESS STEEL. FANS SHALL BE INTERNALLY ISOLATED BY TWO-INCH SPRING ISOLATORS. MOTORS SHALL BE HIGH EFFICIENCY. DRIVE SHALL BE VARIABLE PITCH SUITABLE FOR ADJUSTMENT. UNITS SHALL BE EQUIPPED WITH RUSKIN CD 60 DAMPERS FOR OUTSIDE AND EXHAUST AIR. PROVIDE 2-INCH PLEATED 30% EFFICIENCY FILTERS. INSTALL DRY BULB ECONOMIZER FOR AH-3 AND SET DAMPERS FOR MINIMUM OUTSIDE AIR SETTINGS.

2.02 VARIABLE FREQUENCY DRIVE AH-1 AND AH-2

THE VFDs SHALL BE MANUFACTURED BY ABB AND SHALL MEET THE JOB REQUIREMENTS.

2.03 PUMPS

A. CHP-1 AND CHP-2

1. BELL AND GOSSETT
A. PUMPS SHALL BE BASE-MOUNTED SERIES 1510 AND 1BC CENTRIFUGAL TYPE. PUMPS SHALL BE RATED FOR 175 PSI. ALL PUMPS SHALL BE EQUIPPED WITH HIGH EFFICIENCY MOTORS, EXCEEDING TITLE 24 REQUIREMENTS. INSTALL SUCTION DIFFUSER AND TRIPLE-DUTY VALVES AT EACH PUMP.

2.04 DUCTWORK MATERIALS

A. SHEET METAL:

1. STEEL SHEETS:
a. COLD ROLLED, SOFT STEEL SHEETS.
b. MEETING ASTM 568 – 64T.
c. GALVANIZED: 1-1/4 OUNCES PER SQ. FT., TOTAL BOTH SIDES.
(1) LOCK-FORMING QUALITY.

B. MISCELLANEOUS PRODUCTS:

1. DUCT SEALANTS:
a. SEALING COMPOUND: SIMILAR TO 3M BRAND NO. 700.
b. TAPE: DO NOT USE PRESSURE SENSITIVE TAPE.

2. HARD-SETTING JOINT TAPE.
a. TWO PART TAPE
(1) MINERAL IMPREGNATED WOVEN FIBER TAPE.
(2) IMPREGNATED WITH ACTIVATOR/ADHESIVE OF POLYVINYL ACETATE TYPE.
b. UL LISTED:
(1) FLAME SPREAD: 10.
(2) SMOKE CONTRIBUTED: 0.
c. SIMILAR TO HARD CAST (R).

3. DUCT JOINTS, RECTANGULAR
a. PITTSBURG LONGITUDINAL.
b. POCKET LOCK TRANSVERSE.
c. DO NOT USE S-DRIVE OR DRIVE SLIP.

4. DUCT JOINTS, ROUND
a. ACME LOCK LONGITUDINAL.
b. BEADED SLIPPING TRANSVERSE.

5. DUCT CONNECTION SYSTEM.
a. TRANSVERSE BOLTED DUCT JOINTS
b. FACTORY FABRICATED COMPONENTS.

C. TURNING VANES:

1. CONSTRUCTION PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS:
a. SINGLE WALL VANES:
(1) INSTALL WITH 3/4 INCH TRAILING EDGE.
(2) USE ONLY IN DUCTS WITH MAXIMUM AIR VELOCITY BELOW 2000 FPM.
b. DOUBLE WALL VANES:
(1) USE IN DUCTS WITH MAXIMUM AIR VELOCITY OF 2000 FPM OR HIGHER.
c. VANE LENGTH:
(1) INDICATED IN REFERENCE "STANDARDS".
d. VANE RUNNERS:
(1) PROVIDE SEPARATE EQUAL SIZE SECTIONS FOR VANE LENGTH GREATER THAN THOSE.
(2) SUBMIT ANY OTHER TYPE FOR APPROVAL.

D. ROUND DUCT – FACTORY FABRICATED SPIRAL LOCK SEAM.

E. FLEXIBLE DUCTWORK

1. CONNECTIONS TO DIFFUSERS – THERMAFLEX TYPE M#E.

F. DUCT WRAP WITH VAPOR BARRIER:

1. FLEXIBLE FIBERGLASS WRAP. OWENS CORNING FIBERGLASS TYPE FRK – 75.

2. INSTALLED CONDUCTANCE: 0.30 BTU/SQ. FT./INCH/DEGREE F.

3. THICKNESS – 2".

4. FACTORY APPLIED JACKET.
a. FOIL-SCRIM-KRAFT LAMINATE.
(1) ALUMINUM FOIL FACING.
(2) GLASS SCRIM REINFORCING.
(3) KRAFT PAPER BACKING.
b. MAXIMUM VAPOR PERMEANCE: 0.02 PERMS.
c. ONE 2-INCH FLANGE

5. SIMILAR TO OWENS-CORNING ALL SERVICE FACED DUCT-WRAP.

G. DUCT LINING.

1. OWENS CORNING FIBERGLASS AEROFLEX TYPE 200.

2. 1" THICK

2.04 PIPING AND FITTINGS.
A. CONDENSATE – TYPE M COPPER, SOLDERED JOINTS. ASTM B88

2.05 CONTROLS

A. PROVIDE THERMOSTATS AND CONTROL WIRING AS SHOWN ON SCHEMATIC CONTROLS DIAGRAMS.

PART 3 EXECUTION

3.01 DUCT WORK

A. GENERAL:

1. CONSTRUCT WITH GAUGES, JOINTS, BRACING, REINFORCING, AND OTHER DETAILS PER LATEST ONE SMACNA. SMACNA UNLESS SPECIFIED OTHERWISE.
a. COMPLY WITH MOST STRINGENT.

2. CONSTRUCT OF GALVANIZED SHEET METAL FOR SUPPLY DUCT WORK.

C. RECTANGULAR DUCT JOINTS:

1. POCKET LOCK SEAMS.

2. "DUCTMATE" SYSTEM JOINTS, MAY BE USED IN LIEU OF STANDING SEAMS.

D. JOINT SEALING:

1. SEAL TRANSVERSE JOINTS OF SHEET METAL DUCTS.

E. INSULATE ALL SUPPLY DUCTS WITH 2 INCH THICK DUCT WRAP WITH VAPOR BARRIER.

3.02 DUCT HANGERS AND SUPPORTS.

A. GENERAL:

1. SUPPORT HORIZONTAL DUCTS WITH HANGERS OF SIZE AND SPACING AS INDICATED IN SMACNA STANDARDS.

3.03 CONTROLS.

A. ALL WIRING SHALL MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE.

B. WIRING NOT IN CONDUIT SHALL BE PLENUM RATED CABLE.

C. WIRING EXPOSED TO WEATHER SHALL BE INSTALLED IN WEATHER PROOF CONDUITS.

D. PROVIDE ALL DEVICES TO ACHIEVE CONTROL SEQUENCES ON DRAWINGS.

E. PROVIDE A MINIMUM OF TWO HOURS INSTRUCTION ON OPERATION AND MAINTENANCE TO OWNERS PERSONNEL.

3.04 AIR BALANCING

A. BALANCE AIR FLOWS TO CFM'S INDICATED PER AABC STANDARDS, SUBMIT BALANCE REPORT.

3.05 GUARANTEE

A. GUARANTEE ALL MATERIALS, EQUIPMENT, APPARATUS AND WORKMANSHIP TO BE FREE OF DEFECTIVE MATERIALS AND FAULTY WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FILING OF NOTICE OF COMPLETION.

END OF SECTION

GENERAL NOTES

1. THE HVAC SYSTEMS SHALL CONSIST OF ALL WORK SHOWN ON ALL DWGS. AND ALL WORK IDENTIFIED IN THE SPECS. WORK INCLUDES ALL EQUIPMENT, PIPING, AND DUCTWORK TO THE EXTENT SHOWN ON THE DRAWINGS. WORK ALSO INCLUDES PROVIDING NEW HVAC SYSTEMS, TESTING, TRAINING, AND WARRANTY OF THE SYSTEM AS SHOWN AND SPECIFIED. PROVIDE COMPLETE AND WORKABLE HVAC SYSTEM INCLUDING INTERFACE WITH ELECTRICAL, AND EXISTING HVAC/PLUMBING WORK AS REQUIRED FOR SYSTEM OPERATION.

2. LOCATIONS OF ALL EQUIPMENT AND POINTS OF CONNECTION ARE APPROXIMATE, ALL WORK SHALL BE COORDINATED WITH ALL TRADES TO AVOID CONFLICTS.

3. PRIOR TO PROVIDING SUBMITTALS AND/OR ORDERING EQUIPMENT THE CONTRACTOR SHALL VERIFY SPACE LIMITATIONS WITH EQUIPMENT AND MATERIALS TO BE USED.

4. MECHANICAL CONTRACTOR SHALL VERIFY ALL SYSTEM AND PERFORMANCE REQUIREMENTS TO ASSURE SYSTEM OPERATION AS SPECIFIED.

5. ALL INSTALLATION WORK SHALL BE IN ACCORDANCE WITH ALL CODES AND REQUIREMENTS IDENTIFIED IN THE SPECIFICATIONS. SEE SHEET M-02.

6. THE INTENT OF THE CONTRACT DOCUMENTS IS TO COMPLETE THE PROJECT IN ACCORDANCE WITH ALL APPLICABLE CODES.

7. ALL WORK PERFORMED UNDER THIS CONTRACT IS TO COMPLY WITH THE APPROPRIATE PORTIONS OF TITLE 24, CCR, PARTS 1 THROUGH 5.

APPLICABLE BUILDING CODES

CALIFORNIA PLUMBING CODE – 2001

CALIFORNIA MECHANICAL CODE– 2001

CALIFORNIA UNIFORM FIRE CODE, 2001 EDITION

CALIFORNIA CODE OF REGULATIONS, TITLE 19

CALIFORNIA CODE OF REGULATIONS, TITLE 24

DIVISION OF THE STATE ARCHITECT, STRUCTURAL SAFETY SECTION, INTERPRETATION OF REGULATIONS

NOTE: ALL REFERENCE AMENDMENTS SHALL BE THE CURRENT ADOPTED BY THE STATE OF CALIFORNIA.

CONSTRUCTION NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL ALSO REPORT DISCREPANCIES OR INCONSISTENCIES BETWEEN THE SPECIFIED DESIGN AND EXISTING CONDITIONS TO THE ENGINEER FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.

2. 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.

3. CONTRACTOR SHALL COMPLETE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS, ANY SHUTDOWN OF THE EXISTING SYSTEMS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE.

4. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.

5. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND LEAVE WORK AREA CLEAN DAILY.

6. IN THE AREA OF THE NEW CONSTRUCTION WILL BE FOUND A NUMBER OF EXISTING SERVICES. PROTECT ALL ACTIVE LINES AND MAINTAIN SAME IN GOOD OPERATING CONDITION.

7. PROTECT EXISTING BUILDING STRUCTURES, AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH EXISTING WORK DAMAGED BY WORK UNDER THE DIVISION TO MATCH ADJACENT UNDISTURBED AREAS, PATCHING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED.

8. 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.

9. ABSOLUTE ACCURACY OF DRAWING CAN NOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATION OF THE EXISTING EQUIPMENT, PIPING, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONTRIONS.

10. ANY PIPING OR DUCT OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS, OR LACK OF COORDINATION WITH OTHER TRADES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADITIONAL COST TO OWNER AND IS SUBJECT TO REVIEW BY THE ARCHITECT.

11. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE UTILITIES FOR ALL THE EQUIPMENT WITH THE USER'S PRIOR TO COMMENCEMENT OF THE WORK.

12. VISIT THE SITE, TAKE MEASUREMENTS, EXAMINE ALL EXISTING, AREAS WHERE WORK IS TO BE PERFORMED AND GET ALL INFORMATION NECESSARY FOR PROPER EXECUTION OF THE WORK BEFORE STARTING WORK IN ANY SECTION, ASCERTAIN AND CHECK ALL CONDITIONS WITH THE DRAWINGS AND SPECIFICATIONS, OTHER TRADES, EXISTING CONDITIONS AND BY WHAT MEANS THE WORK IS TO BE PERFORMED. VERIFY THAT EXISTING SITE UTILITIES TO BE CONNECTED ARE PRESENT.

13. REPORT TO OWNER'S REPRESENTATIVE, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER EXECUTION OF THIS WORK.

14. BEGINNING WORK OF ANY SECTION WITHOUT REPORTING UNSUITABLE CONDITIONS TO OWNER'S REPRESENTATIVE CONSTITUTES ACCEPTANCE OF CONDITIONS BY CONTRACTOR.

15. PERFORM ANY REQUIRED REMOVAL, REPAIR OR REPLACEMENT OF THIS WORK CAUSED BY UNSUITABLE CONDITIONS AT NO ADDITIONAL COST TO OWNER.

16. NOT ALL EXISTING PIPES, CONDUITS OR DUCTS ETC. ARE SHOWN ON THESE DRAWINGS. WHERE EXISTING PIPES, CONDUITS AND/OR DUCTS WHICH ARE TO REMAIN PREVENT INSTALLATION OF NEW WORK, RELOCATE, EXISTING PIPES, CONDUITS AND/OR DUCTS, TO FACILITATE NOW WORK.

17. PROVIDE NEW MATERIAL AND EQUIPMENT REQUIRED FOR RELOCATED EQUIPMENT.

18. MAINTAIN SERVICE ENTRANCES USABLE TO PEDESTRIAN, AND TRUCK TRAFFIC AT ALL TIMES.

19. COORDINATE STAGING AND STORAGE AREAS AS NECESSARY.

20. SEISMICALLY BRACE ALL NEW EQUIPMENT & MATERIAL PER SMACNA GUIDELINES.

ABBREVIATIONS

ABBREV	DESCRIPTION
	NOTE: ABBREVIATIONS LISTED ARE FOR GENERAL USE, SOMEWHAT THOSE WHICH ARE NOT USED IN DWG.
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
BHP	BRAKE HORSEPOWER
BP	BOILER PUMP
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALANCING VALVE
C	CONVERTOR
CAC	CALIFORNIA ADMINISTRATIVE CODE
CFF	PIPING CAPPED FOR FUTURE CONNECTION
CFM	CUBIC FEET PER MINUTE
CHV	CHECK VALVE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CP	CHILLER PUMP
CT	COOLING TOWER
CTP	COOLING TOWER PUMP
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CW	DOMESTIC COLD WATER PIPING
DIA	DIAMETER
DR	DRAIN
EL	ELEVATION
ELEC	ELECTRICAL
ENT	ENTERING
ET	EXPANSION TANK
(E)	EXISTING
EWT	ENTERING WATER TEMPERATURE
FCO,COTG	FIRE MAIN PIPING FLOOR CLEANOUT,CLEANOUT TO GRADE
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FN,FLR.	FINISH FLOOR
FLA	FULL LOAD AMP
FPM	FEET PER MINUTE
FS	FLOOR SINK
FS	FLOW SWITCH
FT	FEET
G	NATURAL GAS PIPING
GAL	GALLON
GPM	GALLON PER MINUTE
GV	GATE VALVE
HB	HOT WATER BOILER
HP	HOT WATER PUMP
HW	DOMESTIC HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
HWS	DOMESTIC HOT WATER SUPPLY PIPING
HZ	HERTZ
IN	INCHES
KW	KILOWATT
LB	POUND
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
(N)	NEW
NO.	NUMBER
OFD	OVERFLOW DRAINAGE PIPING
-	OVERFLOW DRAIN
OPER.WT.	OPERATING WEIGHT
OPNG	OPENING
P	PUMP
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PIV	POST INDICATING VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE ASSEMBLY
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SD	RAINWATER LEADER PIPING
SK	SINK
S or W	SOIL OR WASTE PIPING
SQ.FT.	SQUARE FEET
TYP	TYPICAL
UR	URINAL
V	SANITARY VENT PIPING
VAC	VACUUM
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WATER HEATER

DUCT SYMBOLS

SINGLE LINE	DOUBLE LINE	
20X12	20X12	FIRST DIMENSION DENOTES VIEW SHOWN; RECT. OR OVAL
		RISE IN DIRECTION OF FLOW
		TRANSITION, 15" MIN. LENGTH, 15" MAX. EACH SIDE. ROUND OR RECT.
		AUTOMATIC CONTROL DAMPER
		90° ELL W/TURNING VANES
		45° HEEL TAKE-OFF FITTING, REC'T.
		CONICAL FLARED, OR SPIN-IN WITH AIR SCOOP TAP ROUND TAKE OFF FROM RECTANGULAR DUCT.
18ø	18ø	18 INCH ROUND DUCT
		DROP IN DIRECTION OF FLOW
		ROUND DUCT ELBOW, R/D=1.25MIN.
		90° CONICAL TEE FITTING (OR SPIN IN FITTING W/ EXTRACTOR SCOOP)
		45° LATERAL FITTING
		DIVIDED FLOW FITTING
		DOUBLE 45° HEAL TAKE OFF FITTING RECT.
		Y – FITTING
		SUPPLY DUCT TURNING TOWARD
		SUPPLY DUCT TURNING AWAY
		EXHAUST DUCT TURNING TOWARD
		EXHAUST DUCT TURNING AWAY
		ROUND DUCT TURNING TOWARD
		ROUND DUCT TURNING AWAY
ø		ROUND DUCT INDICATOR
ø, CFM		CUBIC FEET PER MINUTE
T		TEMPERATURE SENSOR
		COMBINATION SMOKE FIRE DAMPER (FSD)
		VOLUME DAMPER
MARK / CFM		CEILING SUPPLY AIR DIFFUSER
MARK / CFM		CEILING RETURN/EXHAUST REGISTER
MARK / CFM		WALL SUPPLY REGISTER
MARK / CFM		WALL RETURN OR EXHAUST REGISTER
		AIR FLOW DIRECTION THRU DOOR LOUVER (N = MIN. S.F. FREE AREA)
		AIR FLOW DIRECTION THRU DOOR UNDERCUT
		THERMOSTATIC EQUIPMENT CONTROL LINE
SD		DUCT SMOKE DETECTOR
O.A.		OUTSIDE AIR
E.A.		EXHAUST AIR
S.A.		SUPPLY AIR
R.A.		RETURN AIR
FC		FLEXIBLE CONNECTION

GENERAL SYMBOLS

EQUIPMENT DESIGNATION

DETAIL IDENTIFICATION NUMBER
SHEET ON WHICH DETAIL IS DRAWN OR REFERENCED

SECTION IDENTIFICATION LETTER
SHEET ON WHICH DETAIL SECTION IS DRAWN OR REFERENCED

U.O.N.	UNLESS OTHERWISE NOTED		
◇	NOTE	TBB	EXISTING TERMINAL BOX WITH REHEAT COIL
△	REVISION	TBA	EXISTING TERMINAL BOX WITHOUT REHEAT COIL
⊕	POINT OF CONNECTION		
⊖	POINT OF DISCONNECT		TO BE DEMOLISHED
℄	CENTER LINE		
	MATCH LINE		
TYP.	TYPICAL OF		
CFF	CAP FOR FUTURE		
NMW	NOT IN MECHANICAL WORK		
(E)	EXISTING TO REMAIN		
(R)	RELOCATED		

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

Prepared by:
CHEVRON ENERGY SOLUTIONS COMPANY
A DIVISION OF Chevron U.S.A. Inc.
345 CALIFORNIA STREET, 23rd FLOOR
SAN FRANCISCO, CA 94104
(415) 733-4300

SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

BUILDING 9
ABBREVIATIONS, NOTES AND SYMBOLS

PROJECT NO.	1353
DESIGNED BY	M. FARNICHI
DRAWN BY	PCP
CHECKED BY	M. DUGGAN
DATE	DATE
LAYOUT NO.	24x36-ARCH
SHEET	M-02 1
PLOTS (prints)	M-02 2
PLOTS (prints)	M-02 3
FILE NAME	1353-MECH-NOTE

M-02

EXISTING 1st FLOOR VAV TERMINALS

MARK	SIZE	SUPPLY AIR CFM	MIN. S.A. CFM	HW COIL BTUH	HW COIL GPM	HW COIL VLV
VAV-1	16	3800	1200	40000	4	1/2"
VAV-2	14	2700	1200	35000	3.8	1/2"
VAV-3	12	1800	900	32000	3.3.	1/2"
VAV-4	16	3000	1500	32000	3.3.	1/2"
VAV-5	16	3750	1200	32000	3.3.	1/2"
VAV-6	16	2500	1200	32000	3.3	1/2"
VAV-7	14	2240	1000	32400	3.4	1/2"
VAV-8	14	2240	1000	32400	3.4	1/2"
VAV-9	14	2240	1000	32400	3.4	1/2"
VAV-10	14	2240	1000	32400	3.4	1/2"
VAV-11	14	2240	1000	32400	3.4	1/2"
VAV-12	14	2240	1000	32400	3.4	1/2"
VAV-13	14	2240	1000	32400	3.4	1/2"

REMARKS: SERIES 40B TH., COILS 2-ROW FOR 180/150 ° F WATER TEMP RANGE
DDC TERMINAL CONTROLLER BY CONTROL CONTRACTOR INTERLOCK WITH CAMPUS EMS.

NEW VARIABLE AIR VOLUME (VAV) BOX SCHEDULE

MFR: TITUS

TAG	MODEL	SIZE	CFM		STATIC PRESSURE	HOT WATER HEAT COIL								
		UNIT	MAXIMUM	MINIMUM	MINIMUM	CFM	MBH	EAT	LAT	APd	GPM	EWT	WPd	ROWS
VAV-14	DESV	10	1200	400	0.43	–	–	–	–	–	–	–	–	–
VAV-15	DESV	14	2400	720	0.46	–	–	–	–	–	–	–	–	–
VAV-16	DESV	10	1200	400	0.43	–	–	–	–	–	–	–	–	–
VAV-17	DESV	14	2400	720	0.46	–	–	–	–	–	–	–	–	–
					NOT USED									
VAV-19	DESV	12	1200	300	0.43	–	–	–	–	–	–	–	–	–
VAV-20	DESV	07	650	300	0.40	–	–	–	–	–	–	–	–	–
VAV-21	DESV	12	1800	300	0.43	–	–	–	–	–	–	–	–	–
VAV-22	DESV	10	1200	300	0.58	–	–	–	–	–	–	–	–	–
VAV-23	DESV	16	3000	600	0.69	–	–	–	–	–	–	–	–	–
VAV-24	DESV	14	2400	0	–	–	–	–	–	–	–	–	–	–
VAV-25	DESV	07	650	150	0.40	–	–	–	–	–	–	–	–	–
VAV-26	DESV	08	450	450	0.40	–	–	–	–	–	–	–	–	–
VAV-27	DESV	08	450	450	0.40	–	–	–	–	–	–	–	–	–

NOTES:
1. ROOM NC LEVEL SHOWN INCLUDES ATTENUATION TRANSFER FUNCTIONS OBTAINED FROM TABLES IN ARI STANDARD 885-90.
2. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880-94.
3. SELECTIONS BASED UPON TITUS AS MANUFACTURER
4. INSTALL SOUND ATTENUATOR WITH VAV-19 AND VAV-23

AIR DISTRIBUTION SCHEDULE

TAG	MANUFACTURER	MODEL	OBD	NECK	FRAME	REMARKS
①	KRUEGER	51240 P	NO	18x18	24x24 DUCT MOUNTED	NOTES: 1, 2 & 3
②	KRUEGER	6290	NO	12x12	24x24 DUCT MOUNTED	NOTES: 1, 2 & 3
③	KRUEGER	51240 P	NO	10x10	24x24 T-BAR MOUNTED	NOTES: 2, 3 & 4
④	KRUEGER	5880	YES	–	24x24 DUCT MOUNTED	NOTES: 3 & 4
⑤	KRUEGER	5880	YES	–	18x12 DUCT MOUNTED	NOTES: 3 & 4

NOTES:
1. NC LEVELS SHALL NOT EXCEED 28.
2. PROVIDE SQUARE TO ROUND COLLAR ADAPTER AS REQUIRED.
3. PROVIDE WITH STANDARD FINISH.
4. NC LEVEL SHALL NOT EXCEED 20.

NEW CHILLER PUMP SCHEDULE

PUMP No.	SERVICE	GPM	TDH	MOTOR RPM	MOTOR HP	MOTOR ø	MOTOR V	TYPE
(E) 1	CHILLER	330	75	1750	10	3	460	BASE MOUNTED-B & G, 2-1/2 BB
(N) 2	CHILLER	330	75	1750	10	3	460	BASE MOUNTED (STAND-BY) B & G, 3 BC

NEW AIR HANDLING UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	SERVING	MINIMUM O.A. CFM	SUPPLY FAN CFM	SUPPLY FAN TOTAL P. IN H2O	SUPPLY FAN E.S. PRESS. IN H2O	SUPPLY FAN MOTOR HP	COOLING COIL CAPACITY (MBH)	COOLING COIL SENS (MBH)	COOLING COIL EWT (DEG F)	COOLING COIL LWT (DEG F)	COOLING COIL GPM	COOLING COIL ROWS	COOLING COIL EAT - DB EAT - WB	COOLING COIL LAT - DB LAT - WB	COOLING COIL AIR PRESSURE DROP (IN W.C.)	COOLING COIL WATER P. D. FT	FILTERS TYPE	FILTERS % EFFICIENCY	VOLT/PH/HZ	WEIGHT	REMARKS
AH 1	TRANE M SERIES #12	GROUND FLOOR	650	7800	2.9	1.6	10	208	202	45	57	35	6	76/80	53.7/50	0.76	10	2" DISPOSABLE	30	460	1670	INSTALL WITH VFD
AH 2	TRANE M SERIES #08	GROUND FLOOR	430	4800	3.0	1.4	5	114	105	45	57	22	6	75.5/80	54/51	0.81	4.3	2" DISPOSABLE	30	460	1223	
AH 3	TRANE M SERIES #14	GROUND FLOOR	200	8300	2.90	1.4	10	239	223	45	57	47	8	76/80	53.4/52.7	0.33	4.4	2" DISPOSABLE	30	460	1733	

NOTES FOR ALL AIR HANDLERS

1. FAN AND MOTOR SHALL BE MOUNTED ON A SEISMIC SPRING BASE.
2. PROVIDE A CONTINUOUS, FULL LENGTH 12 GAUGE BASE RAIL.
3. ALL FACTORY WIRING SHALL BE UL OR ETL CERTIFIED. ALL FACTORY WIRING SHALL BE TO A SINGLE POINT IN THE CONTROL PANEL.
4. ALL UNITS SHALL BE INSTALLED WITH 30% EFFICIENT PLEATED FILTERS.
5. ALL MOTORS SHALL BE HIGH EFFICIENCY AND SUITABLE FOR USE WITH VARIABLE SPEED DRIVES. VFD'S MANUFACTURER SHALL BE ABB

BUILDING 9 NEW AND EXISTING MECHANICAL EQUIPMENT SCHEDULES

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

M-03

Prepared By:
BKF Engineers
A Division of Charles T. Main, Inc.
345 California Street, 22nd Floor
San Francisco, CA 94104
Ph 415 291 0100
Fx 415 291 4955

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

SAN MATEO COUNTY COMMUNITY COLLEGE DIST.

BUILDING 9
MECHANICAL EQUIPMENT SCHEDULES

PROJECT NO.	1323
DESIGNED BY	M. FANSHOW
DRAWN BY	PCP
CHECKED BY	M. DUGGAN
DATE	02/01/06
LAYOUT TYP	24x36-40TB
SHEET	SHEET 1
XREF DWGS	XREF 2
XREF DWGS	XREF 3
FILE NAME	1323-MECH-BOND

DEMOLITION NOTES

① DEMOLISH (E) HOT WATER REHEAT COIL AND CAP PIPING AT MAIN PIPES.

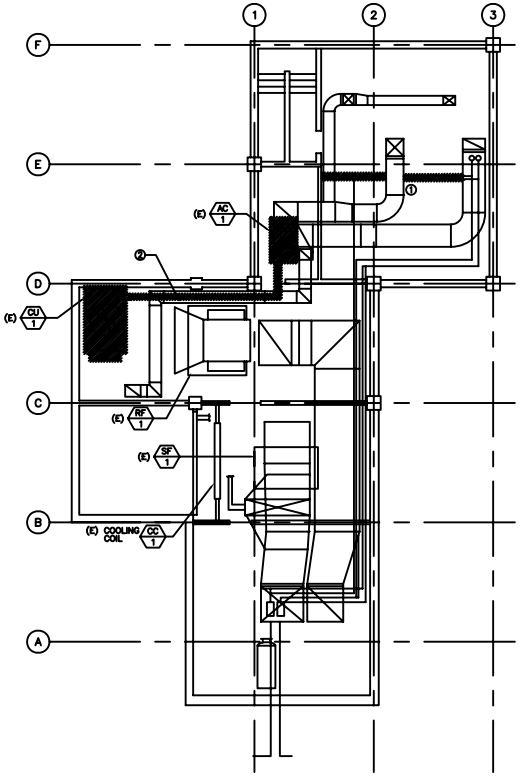
② DEMOLISH (E) REF. PIPING, AND CONDUITS BACK TO MAIN PANEL.

NEW CONSTRUCTION NOTES

◇1 CONNECT (E) SUPPLY DUCT TO (N) AH-1.

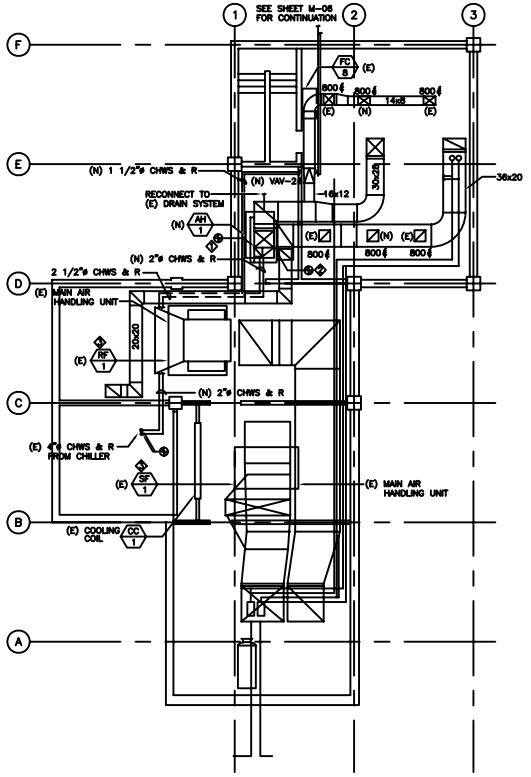
◇2 CONNECT (E) RETURN DUCT TO (N) AH-1.

◇3 COMMISION RF-1 AND SF-1 VDF'S AND ECONOMIZER FOR PROPER OPERATION.



BUILDING 9 BASEMENT DEMOLITION PLAN
SCALE: 1/8"=1'-0"

NORTH



BUILDING 9 BASEMENT NEW CONSTRUCTION PLAN
SCALE: 1/8"=1'-0"

NORTH

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

Prepared By:
CHAUTAUQUA & ELLIOTT GEOGRAPHY
A DIVISION OF Chautauqua U.S.A., Inc.
345 CALIFORNIA STREET, 32nd FLOOR
SAN FRANCISCO, CA 94104
PH 415 733 4900

SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

BUILDING 9 BASEMENT PLAN
DEMOLITION AND
NEW CONSTRUCTION

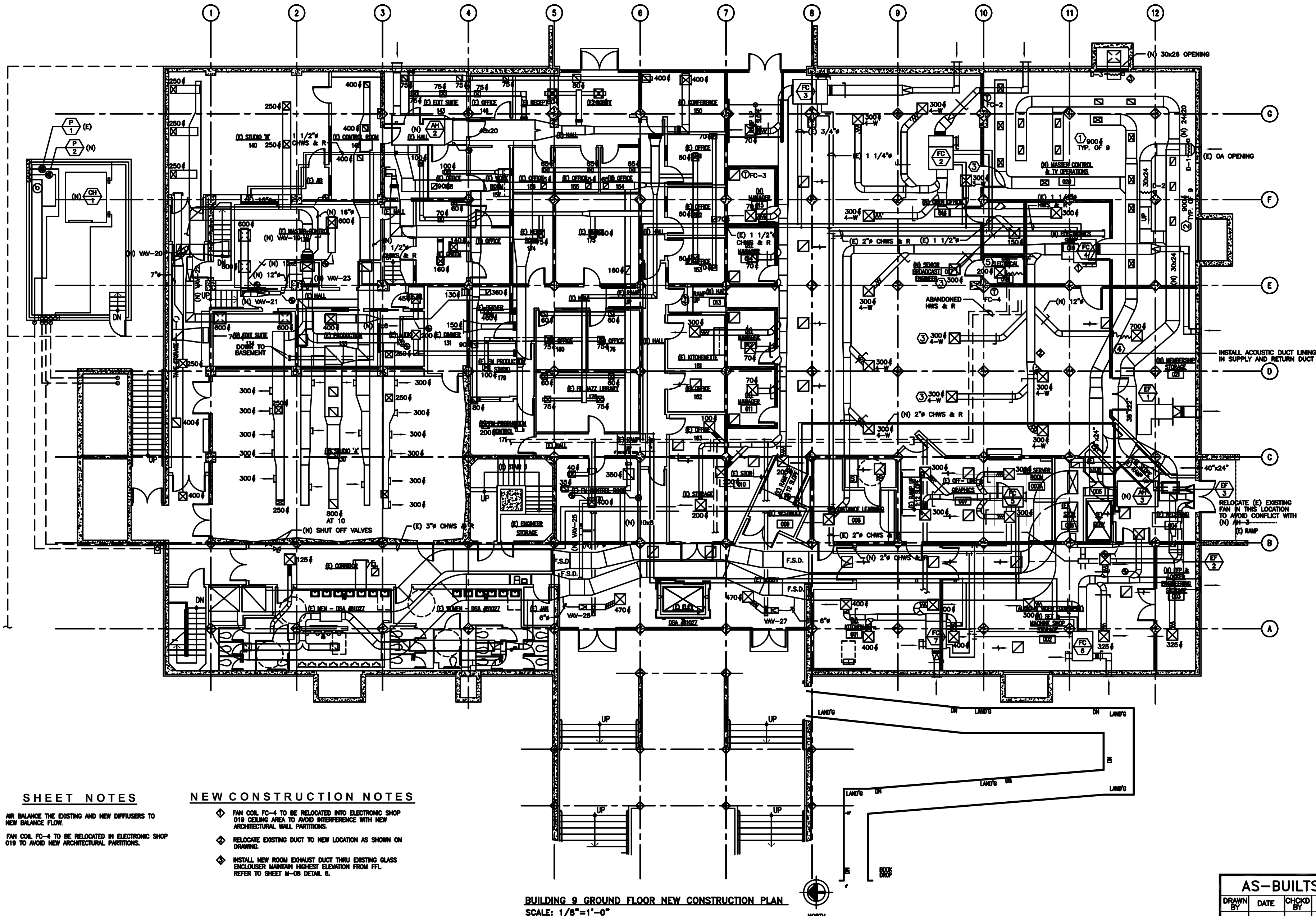
SCALE	1/8"=1'-0"
PROJECT NO.	1323
DESIGNED BY	M. FARSHCHI
DRAWN BY	PCP
CHECKED BY	M. DUGGAN
DATE	02/01/06
CONST TYP	34-36-40TB
SHEET	SHEET 1
SHEET SHEET	SHEET 2
SHEET SHEET	SHEET 3
FILE NAME	1323-MECH-BASM

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

M-04

file: W:\Projects\JOCCCD\09 ADD\Designs (prepared by Vince) \As-Builts\Mdls_R\1323-MECH-BASM 06/01/06



BUILDING 9 GROUND FLOOR NEW CONSTRUCTION PLAN
SCALE: 1/8"=1'-0"

SHEET NOTES

1. AIR BALANCE THE EXISTING AND NEW DIFFUSERS TO NEW BALANCE FLOW.
2. FAN COIL FC-4 TO BE RELOCATED IN ELECTRONIC SHOP 019 TO AVOID NEW ARCHITECTURAL PARTITIONS.

NEW CONSTRUCTION NOTES

1. FAN COIL FC-4 TO BE RELOCATED INTO ELECTRONIC SHOP 019 CEILING AREA TO AVOID INTERFERENCE WITH NEW ARCHITECTURAL WALL PARTITIONS.
2. RELOCATE EXISTING DUCT TO NEW LOCATION AS SHOWN ON DRAWING.
3. INSTALL NEW ROOM EXHAUST DUCT THRU EXISTING GLASS ENCLOUSER MAINTAIN HIGHEST ELEVATION FROM FFL. REFER TO SHEET M-08 DETAIL 6.

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

Prepared by: CHEVRON ENERGY SOLUTIONS COMPANY

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

SAN MATEO COUNTY COMMUNITY COLLEGE DIST.

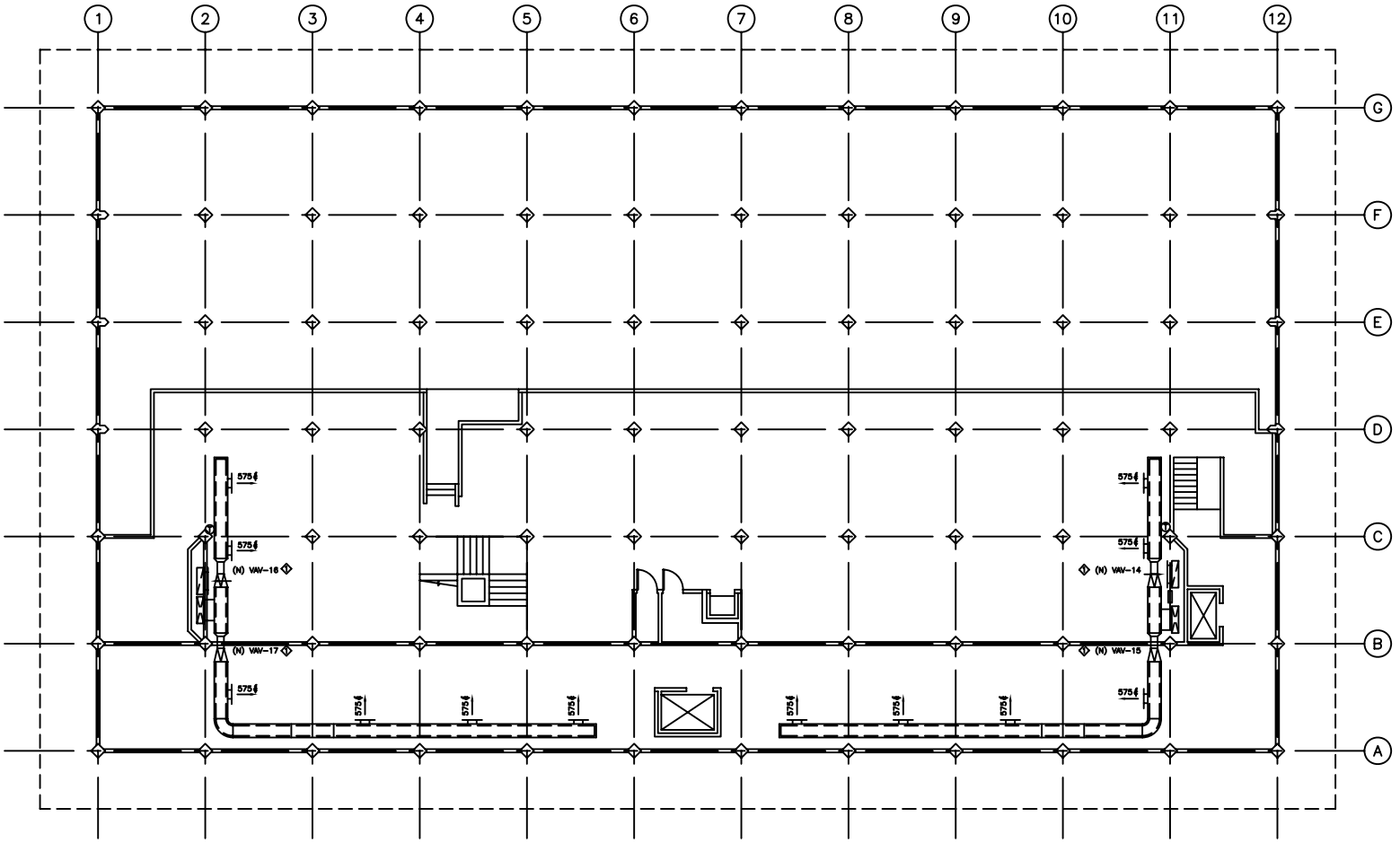
BUILDING 9
GROUND FLOOR
NEW CONSTRUCTION PLAN

SCALE	1/8"=1'-0"
PROJECT NO.	1323
DESIGNED BY	M. FARSHCHI
DRAWN BY	PCP
CHECKED BY	M. DUGGAN
DATE	02/01/06
LAYOUT TAB	24x36-NXTB
XREFS	XREF 1
XREFS (CONT)	XREF 2
XREFS (CONT)	XREF 3
FILE NAME	1323-MECH-GRNC

M-06

NEW CONSTRUCTION NOTES

◇ PROVIDE (N) VAV'S 14, 15, 16 AND 17



BUILDING 9 MEZZANINE LEVEL NEW CONSTRUCTION PLAN
SCALE: 1/8"=1'-0"

NORTH

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

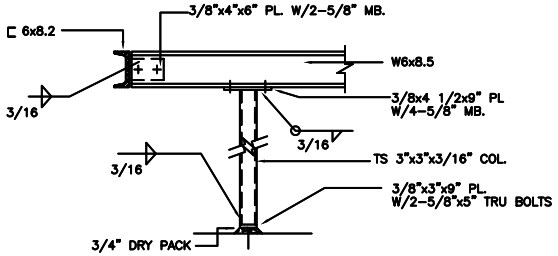
BUILDING 9
MEZZANINE LEVEL
NEW CONSTRUCTION PLAN

SCALE	1/8"=1'-0"
PROJECT NO.	1323
DESIGNED BY	M. FARSHCHI
DRAWN BY	PCP
CHECKED BY	M. DURGHAM
DATE	02/01/06
CONTRACT NO.	34-35-1007B
SHEET	SHEET 1
SHEET SHEET	SHEET 2
SHEET SHEET	SHEET 3
FILE NAME	1323-MECH-ADDNC

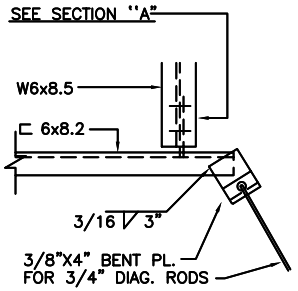
AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

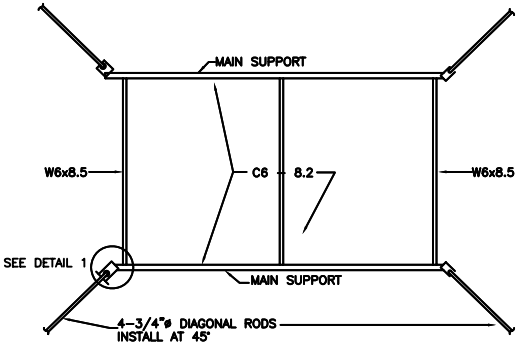
M-07



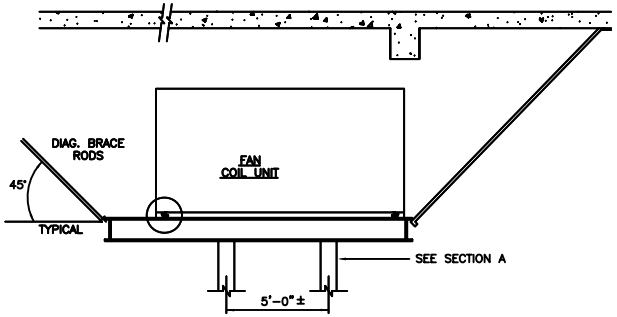
SCALE: NTS — SECTION — A



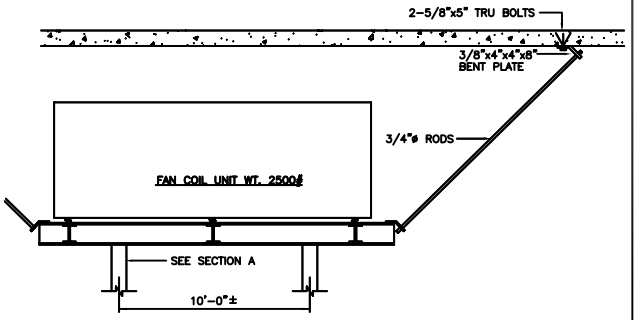
SCALE: NTS — DETAIL — 2



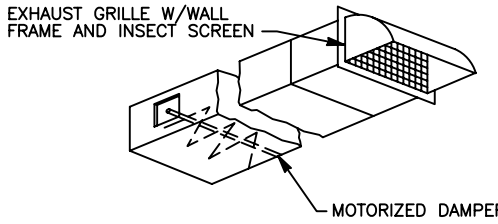
SCALE: NTS — UNIT SUPPORT DETAIL — 3



SCALE: NTS — UNIT SUPPORT DETAIL — 4



SCALE: NTS — UNIT SUPPORT DETAIL — 5



SCALE: NTS — EXHAUST DUCT THROUGH LIGHTWELL DETAIL — 6

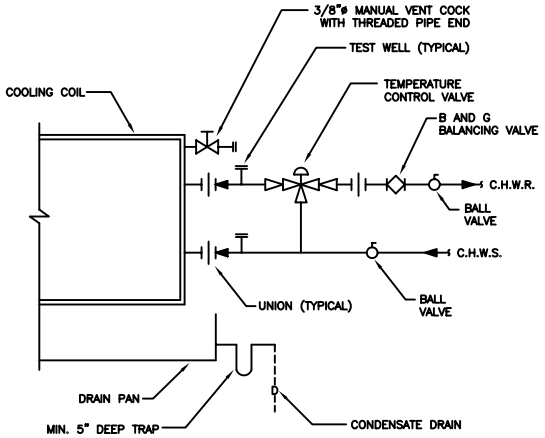
AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

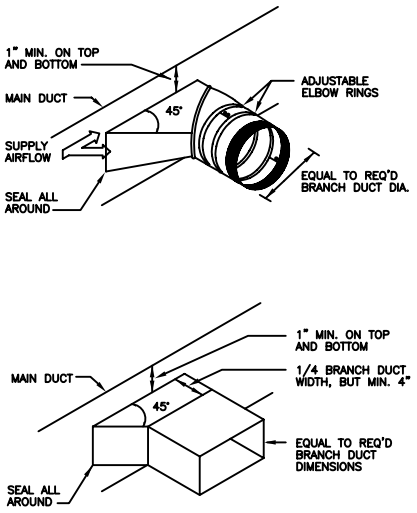
SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

BUILDING 9
MECHANICAL
DETAILS AND SECTIONS

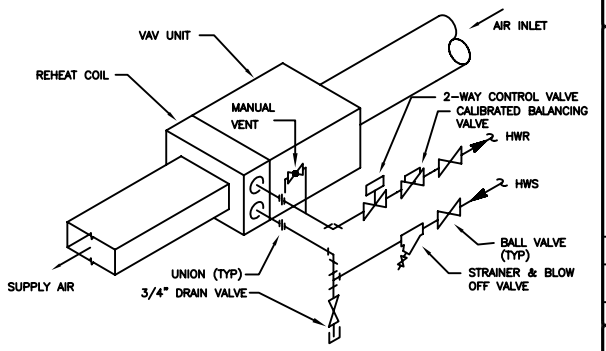
M-08



SCALE: NTS TYPICAL COOLING COIL PIPING DIAGRAM 1

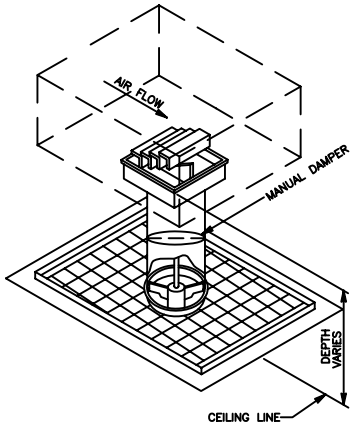


SCALE: NTS TYPICAL BRANCH TAKE-OFF FITTINGS DETAIL 2

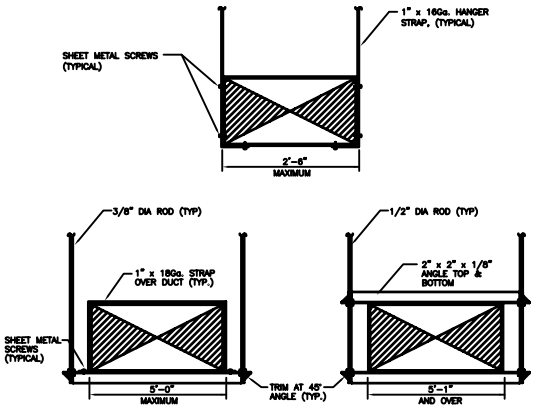


NOTE:
1. ALLOW MINIMUM OF 3 FEET STRIGHT AIR INLET DUCT FOR CONTROL SENSORS.

SCALE: NTS VAV UNIT WITH REHEAT COIL DETAIL 3

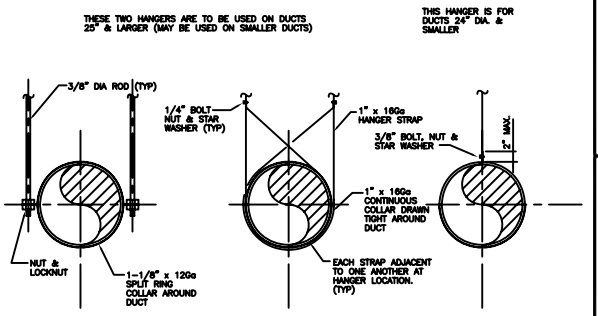


SCALE: NTS TYPICAL CEILING OUTLET DETAIL 4



NOTES:
1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. PROVIDE SWAY & SEISMIC BRACING PER SEISMIC GUIDELINES.
3. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THEN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THEN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.

SCALE: NTS RECTANGULAR DUCT HANGER DETAIL 5



NOTES:
1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. PROVIDE SWAY & SEISMIC BRACING PER SEISMIC GUIDELINES.
3. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THEN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THEN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.

SCALE: NTS ROUND DUCT HANGER DETAIL 6

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

REF	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

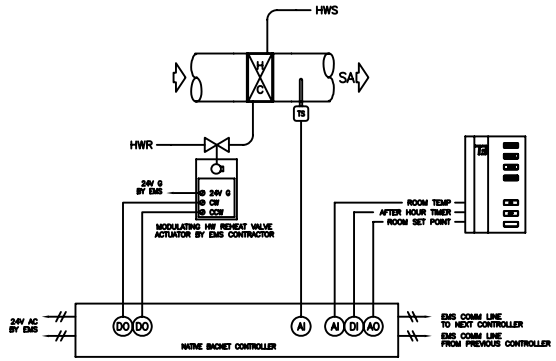
Prepared By:
SMITHGROUP JJR
A DIVISION OF SmithGroup U.S.A., Inc.
345 CALIFORNIA STREET, 32nd FLOOR
SAN FRANCISCO, CA 94104
PH 415.733.4900

SAN MATEO COUNTY COMMUNITY COLLEGE DIST.

BUILDING 9
MECHANICAL DETAILS AND SINGLE LINE DIAGRAMS

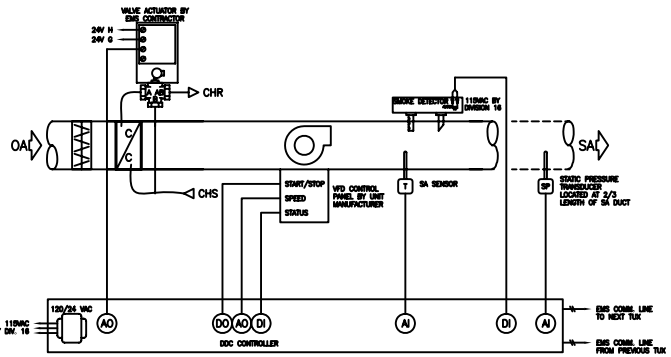
SCALE	NTS
PROJECT NO.	1353
DESIGNED BY	M. FARSHCHI
DRAWN BY	PCP
CHECKED BY	M. DUGGAN
DATE	02/01/06
LAYOUT TAB	24x36-ARCH
SHEET	M-08A
SHEET NAME	M-08A 1
SHEET NAME	M-08A 2
SHEET NAME	M-08A 3
FILE NAME	1353-MECH-DET2

M-08A



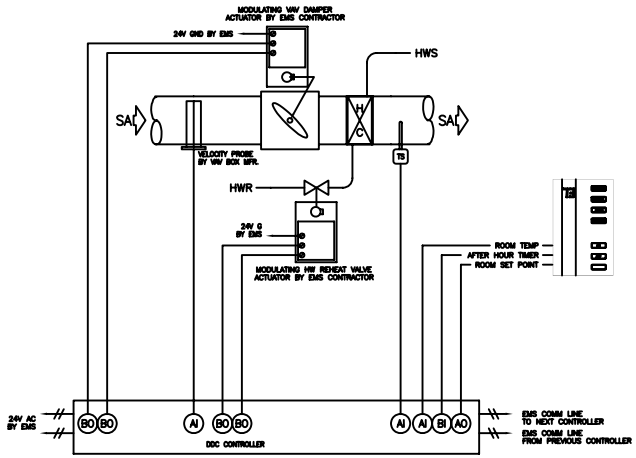
TYPICAL HOT WATER REHEAT ZONE

NO SCALE



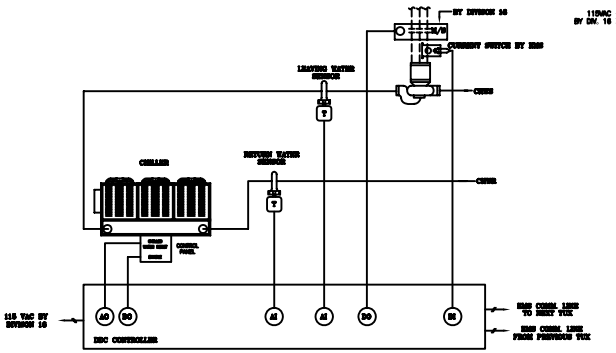
AHU-1 CONTROL

NO SCALE



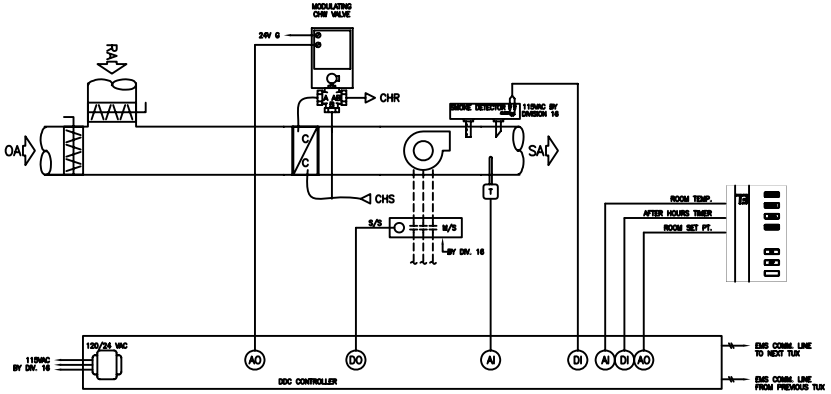
TYPICAL VAV BOX W/ HOT WATER REHEAT

NO SCALE



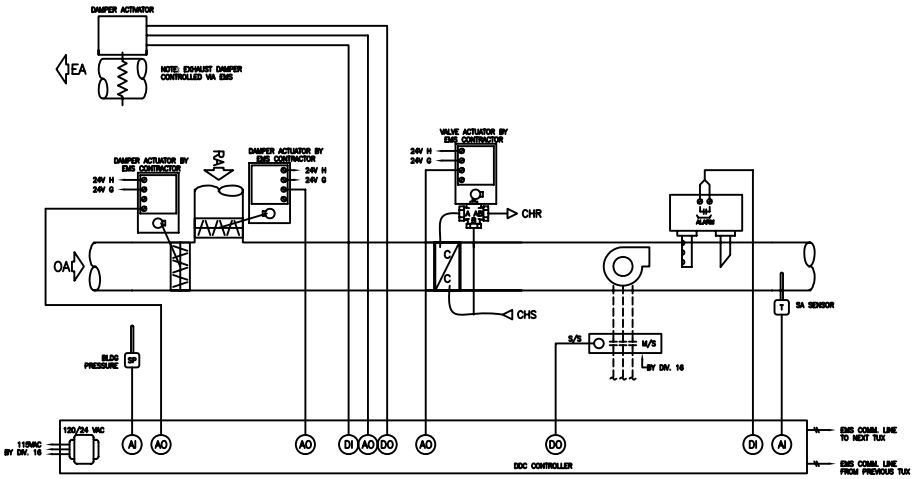
CHILLED WATER CONTROL

NO SCALE



AHU-2 CONTROL

NO SCALE



AHU-3 CONTROL

NO SCALE

MECHANICAL CONTROL DIAGRAMS

AS-BUILTS			
DRAWN BY	DATE	CHKD BY	DATE
PCP	6/30/06	MP	6/30/06

M-09

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

Prepared By:
CHAPMAN TECHNOLOGY
A DIVISION OF CHAPMAN U.S.A., Inc.

SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

BUILDING 9
MECHANICAL
CONTROL DIAGRAMS

DRAWN	MTB
PROJECT NO.	1323
DESIGNED BY	M. PARSHOW
CHKD BY	PCP
CHECKED BY	M. DUGGAN
DATE	02/01/05
LAYOUT TYP	24x36-ARCH
XREF 1	XREF 1
XREF 2	XREF 2
XREF 3	XREF 3
FILE NAME	1323-MECH-CONT

file: W:\Projects\JOCCCD\CB ADD\Drawings (prepared by Vince) \cb-Build\Mdls_R\1323-MECH-CONT 06/30/06

BUILDING OPERATING SEQUENCE

AHU – CONSTANT VOLUME

1 – UNIT SHALL BE DIRECTLY CONTROLLED BY ITS OWN DDC CONTROLLER AND CONNECTED TO THE CAMPUS EMS SYSTEM.

2 – PROVIDE SUPPLY AIR TEMPERATURE SENSORS AND ADJUSTABLE SUPPLY AIR TEMPERATURES, BASE ON ACTUAL BUILDING LOAD.

THE FOLLOWING MINIMUM COMMANDS/DISPLAY SHALL BE AVAILABLE AT CRT FOR AHU SYSTEM:

A–SYSTEM GRAPHICS SHOWING ALL POINTS
B–UNIT START/STOP
C–FAN STATUS
D–SUPPLY AIR TEMPERATURE
E–POSITION OF COOLING VALVES
F–RUNTIME TOTALIZATION OF FAN
G–ALARMS (TEMPERATURE, FAN FAILURE)
H–TREND LOGS

AHU–3
IN ADDITION TO THE ABOVE, PROVIDE THE FOLLOWING.
UPON RECEIVING A FAILURE ALARM FROM THE CHILLERS, OUTSIDE AIR DAMPER WILL OPEN, RETURN AIR DAMPER WILL CLOSE AND EXHAUST DAMPER WILL OPEN. IN NORMAL CONDITIONS, THE OUTSIDE AIR DAMPER WILL STAY OPEN AT 5%.

AIR COOLED CHILLER

1 – THE CHILLER AND THE CHILLED WATER PUMPS SHALL BE CONTROLLED BY DDC CONTROLLER.

2 – CHILLED WATER PUMPS WILL START WHEN AHU–1 OR AHU–3 CHILLED WATER VALVES IS CALLING FOR COOLING.

3 – CHILLED WATER PUMPS P–1 AND P–2 SHALL ALTERNATE ON A MONTHLY SCHEDULE.

4 – DDC SYSTEM SHALL MONITOR THE CHILLED WATER SUPPLY AND RETURN TEMPERATURES, AND ENABLE THE CHILLER WHEN THE CHW PUMP IS PROOFED ON. THE CHILLER THROUGH THE SELF–CONTAINED FACTORY CONTROLS WILL MAINTAIN THE SETPOINT.

5 – THE FOLLOWING MINIMUM DISPLAY COMMANDS SHALL BE AVAILABLE AT THE CRT.

A–ALARM FROM CHILLER
B–CURRENT STATUS COMMANDED CHILLER AND PUMP
C–CHILLED WATER SUPPLY TEMPERATURE
D–CHILLED WATER RETURN TEMPERATURE
E–TREND LOGS
F–LEAD PUMP INDICATION
G–ALARM HISTORY

AHU – VAV SYSTEM

1 – UNIT SHALL BE DIRECTLY CONTROLLED BY IT'S OWN DDC CONTROLLER.

2 – THE BUILDING OCCUPANCY SHALL DETERMINE AHU ACTIVATION.

3 – PROVIDE DUCT STATIC PRESSURE TRANSDUCER WITH SENSOR, LOCATED 2/3 THE WAY DOWN MAIN SUPPLY AIR DUCT TO MAINTAIN DUCT STATIC SETPOINT AS SET AT CRT.

4 – MODULATE OUTSIDE AIR, RETURN AIR AND MIXED AIR DAMPERS FOR ECONOMIZER WHERE APPLICABLE.

5 – MONITOR CURRENT CFM AT EVERY ZONE AND TOTALIZE CURRENT CFM AT AHU.

6 – PROVIDE THE FOLLOWING MINIMUM COMMANDS/DISPLAY AT THE CRT.

A–SYSTEM GRAPHICS SHOWING ALL POINTS
B–UNIT START/STOP
C–FAN STATUS
D–OUTSIDE AIR TEMPERATURE
E–RETURN AIR TEMPERATURE
F–SUPPLY AIR TEMPERATURE
G–CURRENT CFM
H–REST TEMPERATURE
I–DUCT STATIC PRESSURE
J–CURRENT DAMPER POSITIONS
K–ALARMS (TEMPERATURE AND FAN FAILURE)
L–TREND LOG
M–NIGHT SETBACK
N–CHILLED WATER VALVE POSITION

Prepared By:
SIEMENS BUILDING TECHNOLOGIES, INC.
A DIVISION OF Siemens U.S.A., Inc.
345 CALIFORNIA STREET, 32nd FLOOR
SAN FRANCISCO, CA 94104
PH 415 733 4900

REV	DATE	BY	DESCRIPTION
	06/30/06	MP	AS-BUILTS

SAN MATEO COUNTY
COMMUNITY COLLEGE DIST.

BUILDING 9
SEQUENCE OF OPERATION

PROJECT NO.	1323
DESIGNED BY	M. FARSHCHI
DRAWN BY	PCP
CHECKED BY	M. DUGGAN
DATE	02/01/05
CURRENT TAB	24x36-ANSI B
SHEET	SHEET 1
XREF NAME	XREF 2
XREF NAME	XREF 3
FILE NAME	1323-M60H-SEQ

AS–BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	6/30/06	MP	6/30/06

M-10

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL ON PLAN	DESCRIPTION	ACCEPTABLE MANUFACTURER	CATALOG NO.	NO. & TYPE OF LAMP	FIXTURE WATT	VOLT	NOTES
A		RECESSED 2X4 WITH (2) T8 LAMPS, ELECTRONIC BALLASTS	SIMKAR, COLUMBIA OR LA LTG EQUAL	COLUMBIA EPA-24-3-32-G-49 36-277 EDCT	(3) FO32I	93W	277	MATCH (E)
A1		RECESSED 2x2 WITH (2) U LAMP, T8, HPF, ELECTRONIC BALLAST	SIMKAR, COLUMBIA OR LA LTG EQUAL	COLUMBIA PA-22-2U-G-49- 33-277 EDCT	(2) F031	60W		MATCH (E)
A2		SIMILAR TO TYPE "A" EXCEPT 1 FT WIDE, 2 LAMP, HPF	SIMKAR, COLUMBIA OR LA LTG EQUAL	COLUMBIA PA-14-2-32-G- LD-EDCT	(2) FO32	60W		MATCH (E)
B		SURFACE FLUORESCENT WRAP-AROUND, (2) T8 LAMPS ELECTRONIC BALLAST, 120V, HPF	SIMKAR, COLUMBIA OR LA LTG EQUAL	COLUMBIA SWW-12 32236-120	(2) FO32I	62W		(E2) VERSION PER PLAN
B1		SHALLOW WRAPAROUND WITH CLEAR PRISMATIC LENS, T8 LAMPS, ELECTRONIC BALLAST	SIMKAR, COLUMBIA OR LA LTG EQUAL	COLUMBIA AWH-2-32-E98	(2) FO32	60W		(E1) VERSION PER PLAN
C		FLUORESCENT STRIP LIGHT WITH T8 LAMP ELECTRONIC BALLAST	SIMKAR, COLUMBIA OR LA LTG EQUAL	COLUMBIA #CS4-2-32-E98 120-		62W		WITH WIRE GUARD FOR UNITS IN STORAGE & UTILITY ROOMS
D		PENDANT FLUORESCENT LINEAR LIGHTING WITH 3 T8 LAMPS PER 4' SECTION, ELECTRONIC BALLAST	NATIONAL LEDALITE OR APPROVED EQUAL	LEDALITE 1630-T-30-GE-XX 2-120-E-W	(3) FO32I 4' SECTION	93W		SEE PLAN FOR SPECIFIED LENGTH
E		L.E.D. EXIT SIGN WITH INTEGRAL BATTERY UNIT, MASTER/ SLAVE CONFIGURATION	EMERLITE INC. PRESCOLITE EQUAL	RZMR-EM UG-15B	LED	2W	277/120	SEE PLANS FOR NUMBER OF FACE
E1	LL	LOW LEVEL EXIT SIGN THIN PROFILE, REMOTE				1W	-	PROVIDE SLIM LINE SECURITY COVER
E2		COMBINATION EXIT & EMERGENCY LIGHT, INTEG BATT.	PRESCOLITE OR CHLORIDE EQUAL	MVT 3005	LED + (2)WITH	3W	277	
F		2 CIRCUIT TRACK SYSTEM WITH HEAVY DUTY HANGER AND ACCESSORIES, ACCENT LIGHTS WITH PAR 38 LAMPS	EXBON PRICE INTENSE OR APPROVED EQUAL	SIGHT LINE-S, MINIMA 38 HEADS, LH38	(1) 100W PAR 38 HIR FL	100W	120	SEE PLAN FOR REQUIRED LENGTH & ACCENT LIGHTS
G		PENDANT DIRECT LIGHTING WITH T8 LAMPS, ELECRONIC BALLASTS, HPF, ADJUSTABLE MOUNTING POINTS	ICON INTERNATIONAL, NATIONAL LTG EQUAL OR APPROVED EQUAL	SPS-2223	(2) FO32	60W/4'	277	SEE PLAN FOR REQUIRED LENGTH
H		EXTERIOR SCONCE WITH COMPACT FLUORESCENT LAMP HPF, PHOTO CELL, WETT LOCATION	EVERGREEN OR APPROVED EQUAL	S128Q	(1) 26 QD	30	120	MOUNT 6" BELOW TOP OF ENCLOSURE.
H1		SECURITY WALL PACK WITH SHARP CUT-OFF, HPF, PHOTOCELL		S500H	(1) 50 W HPS	60	120	
I		WALL MOUNT PENDANT FLUORESCENT LINEAR LIGHTING WITH 2 T8 LAMPS PER 4' SECTION, ELECTRONIC BALLAST	WELLMADE	WELLMADE #182F-2487B	(2) FO32I 4' SECTION	62W		SEE PLAN FOR SPECIFIED LENGTH

Miscellaneous Motor & Equipment Schedule

TAG	DESCRIPTION	LOAD	VOLT Φ	CONTROL	STARTER (SIZE)	Disc. ⊕ Motor DISC.	HP & KW	REMARKS
AC 1	AIR CONDITIONING UNIT	69 MCA	480 3Φ	BY MECH	-	100	80	
EF 1	EXHAUST FAN	1.3A	120V	BY MECH	NEMA 00	-	-	
EF 2	EXHAUST FAN	135 W	120V	BY MECH	NEMA 00	-	-	

⊕ VERIFY FUSE SIZE WITH EQUIPMENT MANUFACTURER.

GENERAL NOTES

1 SEE ARCHITECTURAL DRAWINGS FOR COUNTER HEIGHTS. INSTALL ALL RECEPTACLES, DEVICES, ETC. AT HEIGHTS TO MEET ACCESSIBILITY REQUIREMENTS.

2 MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING OUTLETS REMAINING, TYP. UON

3 RELOCATE ANY EXISTING CONDUIT AND/OR OUTLETS WHICH INTERFERE WITH NEW CONSTRUCTION. RELOCATE OUTLETS TO ACCESSIBLE LOCATIONS PER CODE.

4 REFER TO ARCHITECTURAL SPECIFICATIONS FOR DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT.

5 DO NOT COMBINE MORE THAN TWO DATA CIRCUITS ON A COMMON NEUTRAL.

6 ANY SHUTDOWN OF ELECTRICAL SERVICE SHALL BE COORDINATED WITH THE OWNER. SHUTDOWN SHALL BE PERFORMED PREFERABLY DURING WEEKENDS OR OFF HOURS.

7 OBTAIN DRAWINGS OF EXISTING ELECTRICAL SYSTEMS FOR REFERENCE FROM OWNER

8 WHERE EXPOSED BRANCH CIRCUIT WIRING IS WARRANTED AT INTERIOR FINISHES INSTALL SURFACE RACEWAY V700 MIN COMPLETE WITH FITTINGS AS REQUIRED.

9 REMOVE ALL EXISTING CONDUIT WIRE, OUTLETS FIXTURES, WIREMOLD, CABLES, ETC NO LONGER IN USE WHETHER SHOWN OR NOT.

10 EXISTING CONDUIT AND OUTLETS MAY BE REUSED WHERE PRACTICAL. INSTALL NEW WIRE.

11 WHERE EXISTING EQUIPMENT IS INDICATED TO BE REMOVED AND TURNED OVER TO OWNER, THE CONTRACTOR SHALL DEPOSIT EQUIPMENT IN LOCATION AS DIRECTED BY THE OWNER.

12 FIRE STOPPING SHALL BE PROVIDED WHERE PENETRATING ITEMS PASS ENTIRELY THROUGH BOTH PROTECTIVE MEMBRANES OF BEARING WALLS REQUIRED TO HAVE A FIRE-RESISTIVE RATING AND WALLS REQUIRING PROTECTED OPENINGS. FIRE STOPPING SHALL ALSO BE PROVIDED AT PENETRATIONS OF FIRE RESISTIVE FLOORS AND FLOORS WHICH ARE PART OF A CEILING-FLOOR ASSEMBLY. FIRE-STOPPING SHALL HAVE AN "F" OR "T" RATING AS DETERMINED BY TESTS CONDUCTED IN ACCORDANCE WITH UBC SECTION 714. SEE SPECIFICATIONS.

13 IN ACCORDANCE WITH TITLE 24, DETAILS SHALL BE PROVIDED FOR THE SEISMIC ANCHORAGE OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. ANCHORAGE DETAILS SHALL BE BASED UPON APPROPRIATE SEISMIC CALCULATIONS.

FOR EQUIPMENT WEIGHING 400 POUNDS OR MORE ANCHORAGE DETAILS AND APPROPRIATE DESIGN CALCULATIONS SHALL BE SUBMITTED AS PART OF THE ELECTRICAL DRAWING. "DEFERRED APPROVAL" ITEMS WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE PLAN CHECK SUPERVISOR.

EXCEPTION: ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400 POUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE, FURNITURE, OR TEMPORARY OR MOVABLE EQUIPMENT AND EQUIPMENT WEIGHING LESS THAN 20 POUNDS THAT IS SUPPORTED BY VIBRATION ISOLATION DEVICES SUSPENDED FROM THE ROOF, WALL OR FLOOR, NEED NOT BE DETAILED ON THE PLANS PROVIDED THE FOLLOWING NOTES ARE INCLUDED ON THE ELECTRICAL PLANS:

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

NOTICE

THIS TABLE HAS BEEN PREPARED FOR AN IMPORTANCE FACTOR OF I=1.0 AND FOR SEISMIC ZONE 4. MAKE APPROPRIATE ADJUSTMENT FOR ANY OTHER VALUES.

14 CONTRACTOR TO PROVIDE AND INSTALL CONDUCTORS FOR ALL SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE ALARM, TELEPHONES AND SWITCHING EQUIPMENT, PUBLIC ADDRESS, SECURITY, CLOCK, BELL & ENERGY MANAGEMENT IN EMT CONCEALED IN WALL CAVITIES, UNDERGROUND, OR CEILING SPACES, TYP. UON. VERTICAL SURFACE MOUNTED RACEWAYS AND CONDUITS ARE PROHIBITED EXCEPT IN UTILITY CLOSETS & EQUIPMENT ROOMS. HORIZONTAL SURFACE MOUNTED RACEWAYS ARE PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS AND AT UTILITY CLOSETS AND STORAGE ROOMS.

15 CONTRACTOR SHALL ENSURE CONTINUOUS UNINTERRUPTED ELECTRICAL POWER TO THE ENTIRE CAMPUS AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. PROVIDE, CONNECT AND MAINTAIN AUXILIARY POWER GENERATION AS REQUIRED.

16 SEE SHEET TC3.1 FOR REQUIRED NUMBER OF DATA AND OR TELEPHONE OUTLETS AND ASSOCIATED CABLING REQUIREMENTS.

LEGEND

(NOTE: FIXTURES AND DEVICES, WHERE SHOWN DOTTED, INDICATE EXISTING. SHADED FIXTURES INDICATES UNIT WITH INTEGRAL BATTERY PACK).

Lighting

FLUORESCENT FIXTURE AND OUTLET, SURFACE OR STEM SUSPENDED

FLUORESCENT FIXTURE WITH BODINE NO. B-50 EMERGENCY BATTERY PACK

Switches and Devices

(NOTE: MOUNTING HEIGHTS MEASURED FORM THE CENTER OF OUTLETS)

S_x SINGLE POLE WALL SWITCH, +48" AFF UON (SUBSCRIPT INDICATES CONTROL)

SS TWO SINGLE POLE SWITCH OR ONE 2 POLE SWITCH (WHERE SUBSCRIPT NOT SHOWN, INDICATES 2LEVEL SWITCH PER TITLE 24)

S_3 S_4 TWO POLE, THREE WAY, WALL SWITCHES, +48" AFF, UON

OCCUPANCY MOTION SENSOR SWITCH, CEILING OR WALL MOUNTED COMPLETE WITH POWER PACK (DUAL TECHNOLOGY BY MYTECH)

S_K KEYED WALL SWITCH, +48" AFF, UON

R_E DUPLEX RECEPTACLE, 20 AMP, 3W, 125V, NEMA 5-20R, WALL MOUNTED +18", AFF UON (FOR RECEPTACLES SERVING EQUIPMENT, REFER TO EQUIPMENT SCHEDULE, FOR RECEPTACLES ABOVE COUNTER, VERIFY MOUNTING HEIGHT) SUBSCRIPT "E" INDICATES OUTLET ON STANDBY CKT (RED COLOR OUTLET)

AS ⊕ BUT DOUBLE DUPLEX

AS ⊕ BUT GROUND FAULT PROTECTIVE

AS ⊕ BUT ISOLATED GROUND TYPE

TP TAMPER PROOF DUPLEX RECEPTACLE HUBBELL NO. HBL5362 (+18"AFF)

SPECIAL APPLIANCE OR EQUIPMENT RECEPTACLE (VERIFY FOR NEMA TYPE AND EXACT LOCATION)

MOTOR OUTLET AND CONNECTION

MAGNETIC MOTOR STARTER

DISCONNECT SWITCH ("N" INDICATES FUSED - SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER)

MANUAL MOTOR STARTER SWITCH, HORSEPOWER RATED W/ OVERLOAD

JUNCTION BOX (CEILING, AND WALL MOUNTED)

(E) DUPLEX RECEPTACLE, TO REMAIN, TYP, UON.

RAISED FLOOR OUTLET ASSEMBLY, WIREMOLD # RC880-6 SERIES FOR POWER, PROVIDE 3/4" FLEX WITH WIRES TO FEED ELECTRIFIED PARTITION. SUBSCRIPT "E" INDICATES EMERGENCY CKT

RAISED FLOOR TRANSITION POINT. REFER TO DETAIL 2, SHEET TC3.2 FOR DETAILS. PROVIDE 1 1/2" FLEX BETWEEN SYSTEM FURNITURE AND RAISED FLOOR.

RAISED FLOOR OUTLET ASSEMBLY WITH (1) QUADRUPLEX (RED COLOR) & (1) DATA OUTLET WIREMOLD # AFI-SERIES OR APPROVED EQUAL

SAME AS ABOVE EXCEPT (2) QUADRUPLEXES, AF 3 SERIES

Signal

(NOTE: MOUNTING HEIGHTS MEASURED FORM THE CENTER OF OUTLETS)

TELEPHONE OUTLET: +16" AFF UON (SEE GENERAL NOTE 16) PROVIDE 3/4" CONDUIT STUB TO UNDERFLOOR CABLE TRAY.

COMMUNICATION OUTLET: +16" AFF UON (SEE GENERAL NOTE 16) PROVIDE 3/4" CONDUIT STUB TO UNDERFLOOR CABLE TRAY.

TV TELEVISION OUTLET: +16" AFF UON

NEW CLOCK AND OUTLET

NEW COMBINATION CLOCK & SPEAKER AND OUTLET.

INTERCOM CALL - IN SWITCH: +48" AFF

EXISTING OUTLET AND/OR DEVICE TO REMAIN UON

NEW SPEAKER AND OUTLET (WALL, CEILING MOUNT), TYPE TO MATCH (E)

IA INTRUSION ALARM DEVICE +6'-6" AFF, TYPE TO MATCH (E)

IK INTRUSION ALARM KEYPAD (+48" AFF), TYPE TO MATCH (E)

(E) SPEAKER AND ASSOCIATED CONDUCTORS TO REMAIN, UON

(E) CLOCK AND ASSOCIATED CONDUCTORS TO REMAIN, UON

CABLE TRAY, 18"x24" WIDE, 90" ABOVE FLOOR TILES (AFT) MONO SYSTEMS MR-187-10-PB. COORDINATE WITH RCBM OWNER

SAME AS ABOVE EXCEPT 18" WIDE AND MTD +108" AFT

Wiring

—I— INTERCOM SYSTEM CONDUIT, 3/4"C AND CONDUCTORS.

—F— FIRE ALARM SYSTEM CONDUIT AND CONDUCTORS.

—A— ALARM SYSTEM CONDUIT, 3/4" MTC, UON. TO SECURITY ALARM PANEL.

ISOL. GND BRANCH CIRCUIT HOMERUN, CROSS LINES INDICATE NUMBER OF #12 WIRES (UON). WHERE IN EXCESS OF 2. (NOT COUNTING REQUIRED EQUIPMENT GROUND IN PVC CONDUITS). CROSS LINE WITH DOT INDICATES ISOLATED GROUND WIRE.

NEUTRAL

CONDUIT CONCEALED IN CEILING OR WALL NUMBER OF CONDUCTORS SHALL BE AS REQUIRED FOR THE CIRCUIT OR CONTROL SHOWN UON. (CROSS LINE WITH DOT, WHERE SHOWN, INDICATES ISOLATED GROUND WIRE), 3/4"C UON.

CONDUIT CONCEALED IN OR BELOW FLOOR OR GRADE, NUMBER OF CONDUCTORS SHALL BE AS REQUIRED FOR THE CIRCUITS OR CONTROL SHOWN UON. (CROSS LINE WITH DOT, WHERE SHOWN, INDICATES ISOLATED GROUND WIRE)

—PA— PUBLIC ADDRESS SYSTEM CONDUIT AND CONDUCTORS, 3/4"C UON.

—T— TELEPHONE SYSTEM CONDUIT, 3/4" MTC, UON. SEE TC3.1 DWG FOR CABLING

—D— DATA SYSTEM CONDUIT, 1" MTC, UON, SEE TC3.1 DWG FOR CABLING

—SD— COMBINED SIGNAL AND COMMUNICATION CONDUIT (SEE SPECS)

EXISTING RACEWAY, IN CEILING OR WALL.

EXISTING RACEWAY IN FLOOR OR BELOW GRADE

CONDUIT UP / CONDUIT DOWN

CONDUIT STUB-OUT

EQUIPMENT CONNECTION

W SURFACE RACEWAY WIREMOLD 5400 SERIES WITH DUPLEX RECEPTACLES AND DATA JACKS +16" AFF, UON SEE ARCH'L DWG. COLOR AS SELECTED BY ARCHT.

Panels

PANELBOARDS (SURFACE/RECESSED)

TELEPHONE AND OTHER SIGNAL CABINET/BOARD

TERMINAL CABINET (SURFACE/RECESSED)

Identification Tag

SHEET NOTE

DETAIL OR SECTION

MECHANICAL EQUIPMENT

LIGHTING FIXTURE

REVISION

FEEDER TAG

DETAIL/DIAGRAM NOTE

Abbreviations

AFF	ABOVE FINISHED FLOOR
CKT	CIRCUIT
MTC	CONDUIT ONLY (WITH PULL WIRE)
DISC	DISCONNECT
(N)	NEW
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
JB	JUNCTION BOX
NIEC	NOT IN THE ELECTRICAL CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
REQ'D	REQUIRED
RCPT	RECEPTACLE
(RL)	RELOCATE AS REQUIRED
(R)	REMOVE
(RE)	REPLACE EXISTING WITH NEW
SAD	SEE ARCHITECTURAL DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SPD	SEE PLUMBING DRAWINGS
SWBD	SWITCHBOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF
XFMR	TRANSFORMER
XFER	TRANSFER
(CO)	CAP-OFF
(E)	EXISTING
(EL)	EMERGENCY (LAMP) BATTERY PACK
QD	QUAD

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	10/06/06	MP	10/06/06

tBP architecture planning interiors management
tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fax: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

owner

tBP project number : 20377.00

file name:

drawn by:S. checked by:

date: MARCH 23, 2005

Rev:	date:	description:
1	7-21-05	1ST DSA SUBMITTAL
2	03-23-06	DSA RECHECK
3	10-06-06	AS BUILTS

drawing title: LEGEND NOTES AND SCHEDULES

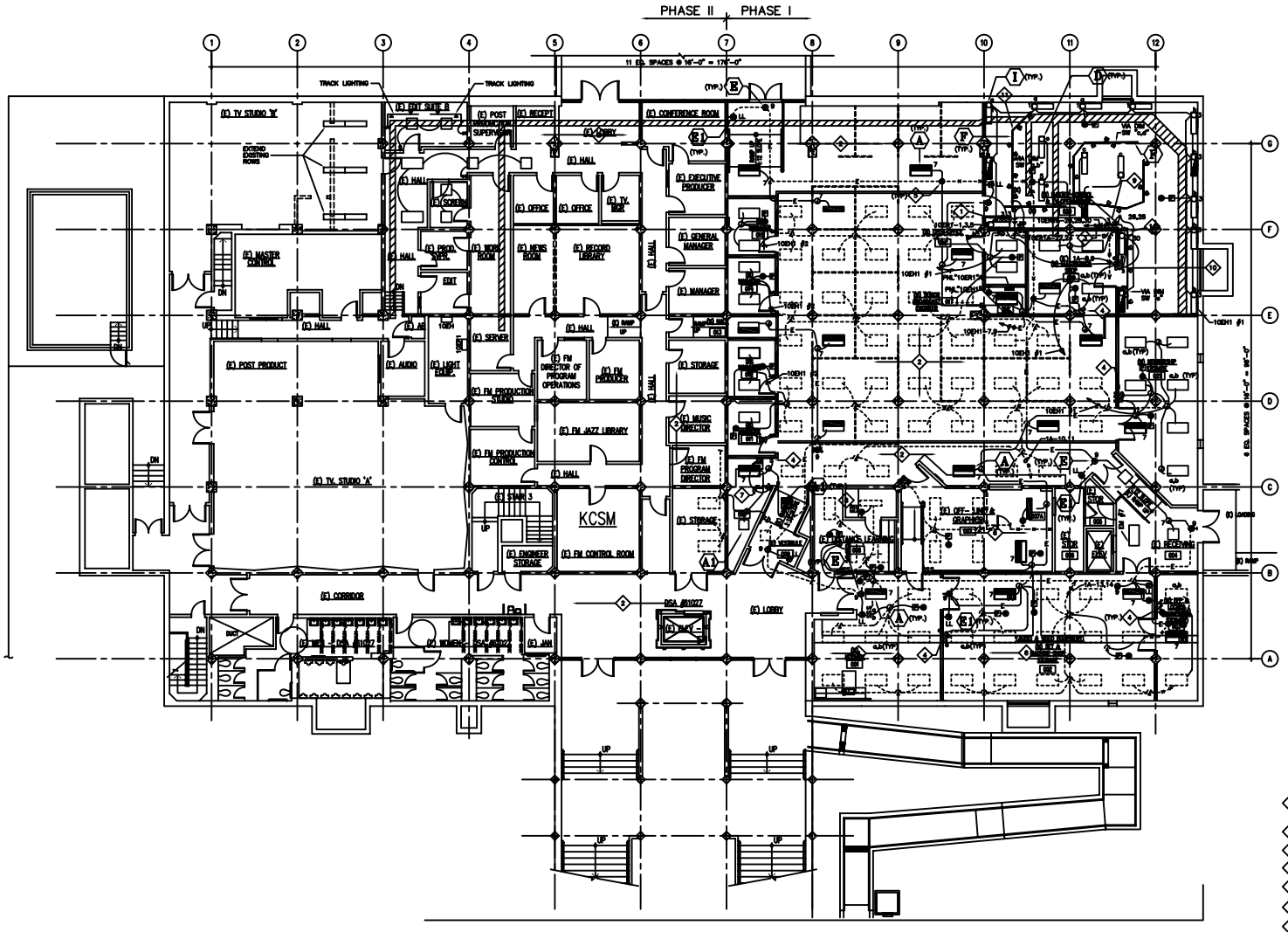
building no.:

drawing no.: E0.1

drawing? of

GENERAL NOTES

COORDINATE MOUNTING LOCATION OF LIGHTING FIXTURES WITH MECHANICAL PRIOR TO ROUGH-IN.



SHEET NOTES

1. DIMMER SWITCH BANK "A", "B" (2000W/SW) BY LUTRON NOVA OR APPROVED EQUAL. ALSO PROVIDE SINGLE POLE SWITCHES - a & e AND 3 WAY SWITCHES b & d.
2. FIXTURE AND ASSOCIATED WIRING TO REMAIN, TYP. U.O.N.
3. HOMERUN TO PANEL VIA DIMMER SWITCHES.
4. PROVIDE BARRIER IN MULTIGANG BOX AS REQUIRED.
5. INTERCEPT (E) CONDUIT WITH A J-BOX AND EXTEND WIRING AS SHOWN.
6. PROVIDE LIGHTING CONTROL AS INDICATED REWIRE AS REQUIRED.
7. RELOCATE (E) LOW VOLTAGE SWITCHES TO (N) LOCATION. EXTEND WIRING AS REQUIRED.
8. REMOVE & REPLACE OLD SWITCH WITH (N).
9. DIMMER SWITCH BANK "c", "d" (2000W/SW) BY LUTRON NOVA OR APPROVED EQUAL. ALSO, PROVIDE 3 WAY SWITCH "c"
10. DIMMER SWITCH "e" (2000 W/ SW) BY LUTRON NOVA OR APPROVED EQUAL. ALSO, PROVIDE SINGLE POLE SWITCH "d" AND 3 WAY SWITCH "b"
11. TRACK LIGHTING, MOUNTED ON UNI-STRUT 1" APP UNI-STRUT SUPPORT 6' ON CENTER - 3/8" ROD TO CEILING WALL BRACES AT EACH END

1 FLOOR PLAN BUILDING 9
SCALE: 1/8"=1'-0"

NORTH

AS-BUILTS			
DRAWN BY	DATE	CHECKED BY	DATE
PCP	10/06/06	MP	10/06/06

tBP architecture
planning
interiors
management
tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

owner

tBP project number : [illegible]
file name:
drawn by: checked by:
date: [illegible]

Rev:	date:	description:
1	[illegible]	[illegible]
2	[illegible]	[illegible]
3	[illegible]	[illegible]

drawing title: building no.:
LIBRARY GROUND FLOOR LIGHTING PLAN

drawing no.:
E2.1
drawing # of

GENERAL NOTES

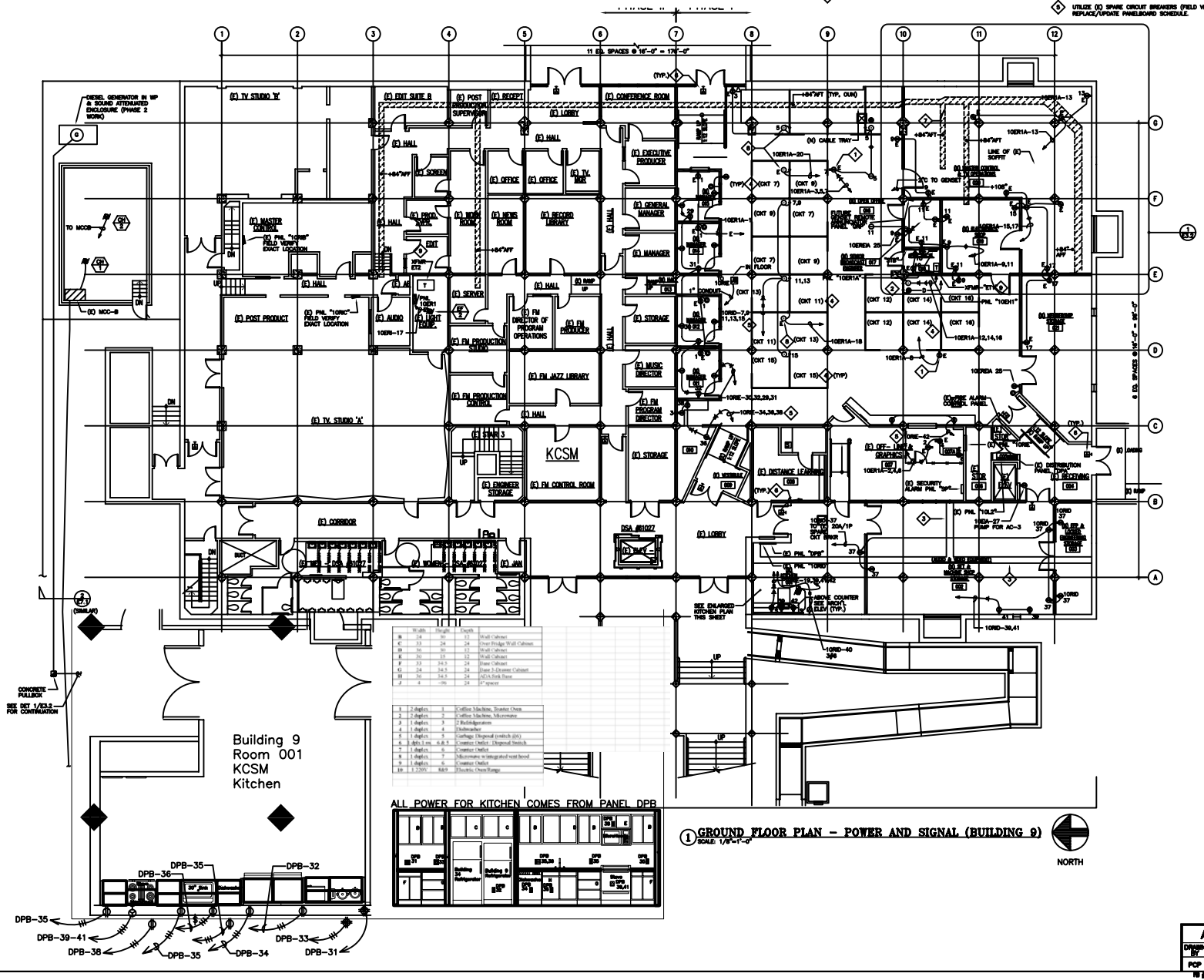
1. SEE TELE/DATA DRAWINGS TC3.1/TC3.2 FOR REQUIRED LOCATION OF DATA OUTLETS AT SYSTEM FURNITURES, TYP, UON.
2. NUMBER OF PORTS OR JACKS AS SCHEDULED ON THE ABOVE DWGS.

SHEET NOTES

6. (E) SECURITY ALARM DEVICE TO REMAIN.
7. DEDICATED O/H CABLE TRAY FOR AUDIO VISUAL CABLING. COORDINATE EXACT ROUTE IN THE FIELD WITH KCSM STAFF
8. FLOOR OUTLET ON ENERG CKT. CONNECT (2) DUPLEX OUTLET IN EACH CUBICLE TO DESIGNATED BRANCH CKT. SHOWN ONLY OF 5 CUBICLES PER (2) ENERG CKT.
9. K13 RATED TRANSFORMER, SEE SINGLE LINE DIAGRAM
10. EXTEND 3/4" C FROM BACK BOX INTO RM 007 (BELOW RAISED FLOOR PANELS).
11. RANGE: 208V-1Φ VERIFY EXACT LOCATION W/ ARCHITECT
12. INSTALL 2P-50AMP CIRCUIT BREAKER IN PANEL 10RD, SPACE 40

SHEET NOTES

1. PROVIDE DEDICATED CKT AND OUTLET FOR PRINTER. LOCATE OUTLET AT BASE OF ELECTRIFIED PARTITION, COORDINATE WITH ARCHITECT. (TYP FOR DATA OUTLET)
2. WIREMOLD 5AF21/2 RAISED FLOOR BOX. REFER TO SECTION 16300 AND DWG TC3.1/TC3.2 FOR LAYOUT & COMMUNICATIONS CABLING REQUIREMENTS.
3. (E) FLOOR TRENCH DUCT TO REMAIN.
4. DESIGNATED BRANCH CIRCUIT FOR RECEPTACLES AT ELECTRIFIED PARTITION, CONNECT AS REQUIRED, TYP, UON.
5. UTILIZE (E) SPARE CIRCUIT BREAKERS (FIELD VERIFY) AND REPLACE/UPDATE PANELBOARD SCHEDULE.



	Width	Height	Depth	
B	24	30	12	Wall Cabinet
C	33	34	24	Over Fridge Wall Cabinet
D	36	30	12	Wall Cabinet
E	30	15	12	Wall Cabinet
F	33	34.5	24	Base Cabinet
G	24	34.5	24	Base 2-Drawer Cabinet
H	36	34.5	24	ADA Sink Base
J	4	+36	24	4" spacer

1	2 duplex	1	Coffee Machine, Toaster Oven
2	2 duplex	2	Coffee Machine, Microwave
3	1 duplex	3	2 Refridgerators
4	1 duplex	4	Dishwasher
5	1 duplex	5	Garbage Disposal (switch @6)
6	3 dpls 1 ea	6 & 5	Counter Outlet / Disposal Switch
7	1 duplex	6	Counter Outlet
8	1 duplex	7	Microwave in integrated vent hood
9	1 duplex	6	Counter Outlet
10	1 2-50V	8&9	Electric Oven/Range

1 GROUND FLOOR PLAN – POWER AND SIGNAL (BUILDING 9)
SCALE: 1/8"=1'-0"

NORTH

AS-BUILTS

DRAWN BY	DATE	CHECKED BY	DATE
PCP	10/06/06	MP	10/06/06

tBP architecture planning interiors management
tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

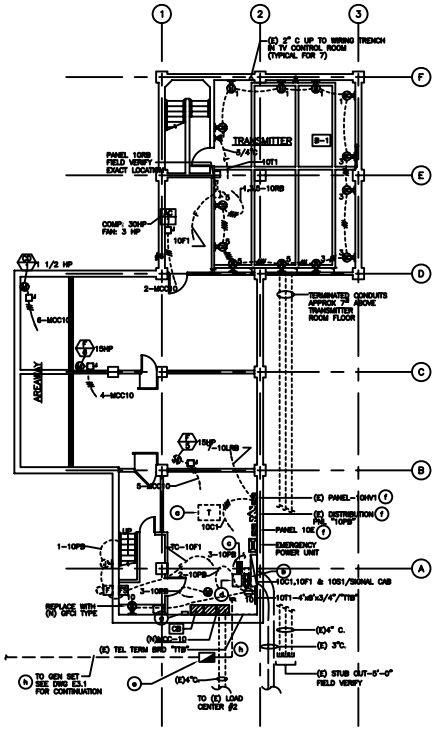
agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA
owner

tBP project number : 0607.00
file name:
drawn by: checked by:
date: MARCH 30, 2006

Rev:	date:	description:
1	7-20-06	100 DSA SUBMITTAL
2	09-29-06	DSA RESUBMITTAL
3	10-06-06	AS BUILTS

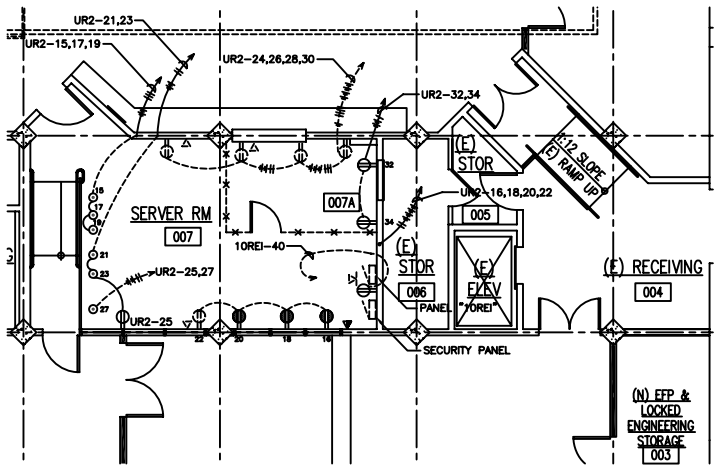
drawing title: building no.:
GROUND FLOOR – POWER AND SIGNAL PLAN
drawing no.:
E3.1
drawing ? of



1 BASEMENT PART PLAN – POWER AND SIGNAL

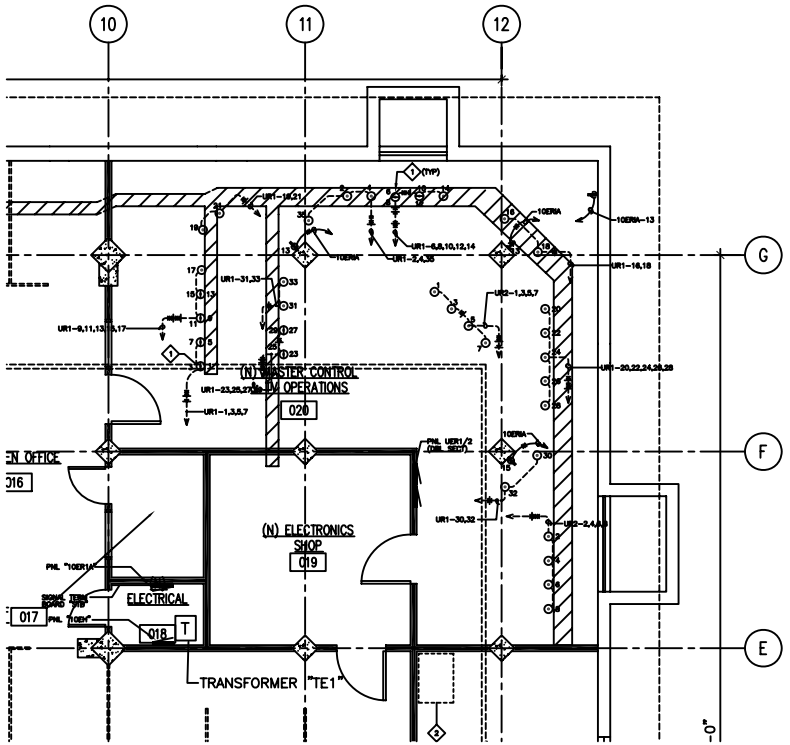
SCALE: 1/8"=1'-0"

- (a) EXISTING 225 KVA XFMR "T-10" TO REMAIN
- (b) NOT USED
- (c) NOT USED
- (d) NOT USED
- (e) NOT USED
- (f) PROVIDE FILLER PLATE TO COVER (E) BREAKER SPACE INSIDE PANEL. IN PANEL 10PB PROVIDE (2) 20A/1P CB FOR FUTURE GENSET BATTERY CHARGER/BLOCK ENGINE HEATER. TYPE AND KAIC RATING TO MATCH (E).
- (g) (N) DEMAND METER, FIELD VERIFY LOCATION.
- (h) NOT USED



4 GROUND PART. FLOOR PLAN – POWER AND SIGNAL

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



2 GROUND FLOOR PART PLAN – POWER AND SIGNAL

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

SHEET NOTES

1. RAISED FLOOR OUTLET WITH DEDICATED 20A QUADRUPLEX PER CKT & (2) DATA OUTLETS. VERIFY EXACT LOCATION OF OUTLETS W/ KCSM
2. 60KVA MIN UPS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN. 480V 3Ø–120/208N–3Ø 4W

GENERAL NOTE

1. EXACT LOCATION OF FLOOR OUTLET ON RAISED FLOOR SHALL BE COORDINATED WITH ARCHT PRIOR TO INSTALLATION.
2. PROVIDE MATCHING EQUIPMENT PLUG OTHER THAN STANDARD DUPLEX AS DIRECTED BY OWNER.

AS-BUILTS

DRAWN BY	DATE	CHECKED BY	DATE
PCP	10/06/06	MP	10/06/06

tBP architecture planning interiors management
tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA
owner

tBP project number :
file name:
drawn by: checked by:
date:

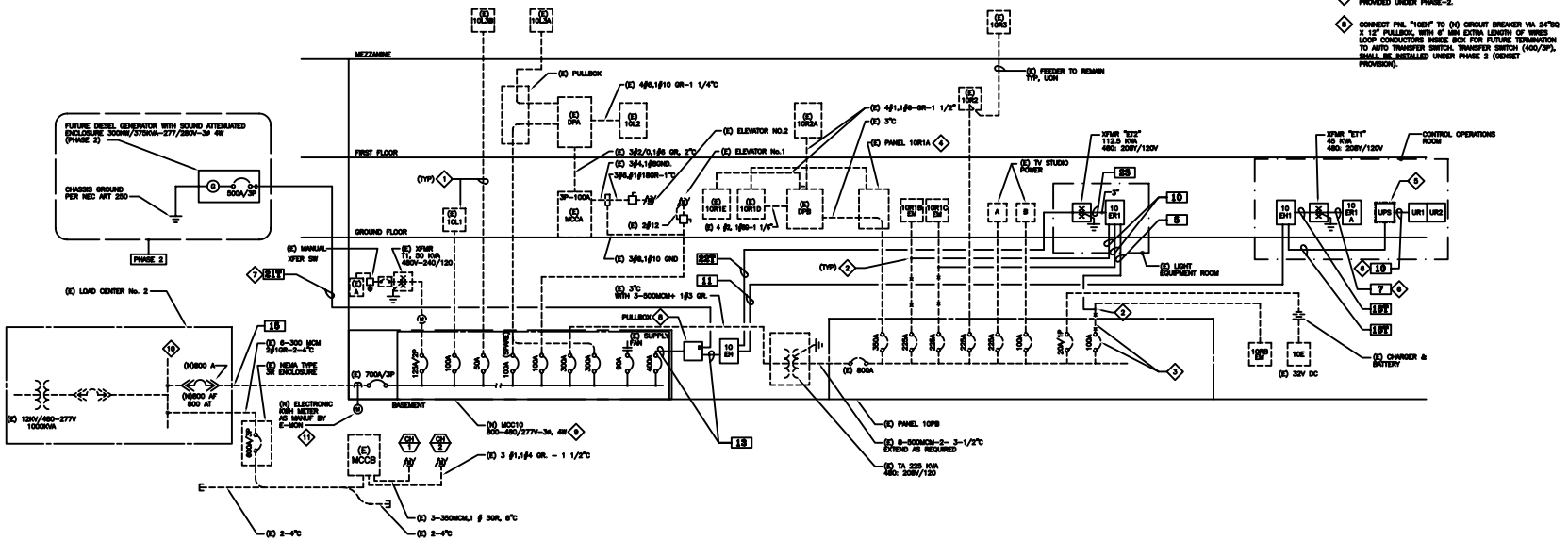
Rev:	date:	description:
1		
2		
3		

drawing title: GROUND PART PLAN – POWER AND SIGNAL
building no.:
drawing no.: E3.2
drawing # of

SHEET NOTES:

6. REMOVE AND REPLACE OLD MCC-10 WITH (N) AS SHOWN. PROVIDE (N) CIRCUIT BREAKERS AND ACCESSORIES WITH RATING TO MATCH (E). RECONNECT (E) LOADS COMPLETE & FUNCTIONAL AS REQUIRED.
10. REMOVE AND REPLACE (E) CIRCUIT PROTECTION WITH (N) AS INDICATED TYPE TO MATCH (E).
11. PROVIDE DEMAND METER COMPLETE WITH CURRENT SENSORS AND WIRING PER MANUF INSTRUCTIONS. FIELD VERIFY EXACT LOCATION.

1. (E) PANEL & FEEDER TO REMAIN, TYP, UON.
2. INTERCEPT (E) FEEDER WITH A J-BOX AND EXTEND TO (N) EMERGENCY PANEL AS INDICATED. EXTEND TO MATCH (E). FIELD VERIFY ROUTING OF CONDUIT.
3. REMOVE PORTION OF FEEDER NO LONGER ACTIVE AND LABEL (E) CIRCUIT BREAKER IN PNL AS SPARE.
4. (E) PANEL WITH REMOVED INTERIOR, SERVING AS PULLCAN.
5. UPS: 480V-3Φ-120/208V-3Φ 4W COORDINATE LOCATION WITH KCSM PRIOR TO ROUGH-IN.
6. PROVIDE DOUBLE NEUTRAL CONDUCTORS.
7. PROVIDE FEEDER CONDUIT ONLY. CONDUCTORS SHALL BE PROVIDED UNDER PHASE-2.
8. CONNECT PNL "10EP" TO (N) CIRCUIT BREAKER VIA 24"SQ X 12" PULLBOX, WITH 6" MIN EXTRA LENGTH OF WIRES LOOP CONDUCTORS INSIDE BOX FOR FUTURE TERMINATION TO AUTO TRANSFER SWITCH. TRANSFER SWITCH (400/3P), SHALL BE INSTALLED UNDER PHASE 2 (GENSET PROVISION).



1 SINGLE LINE DIAGRAM
SCALE: NTS

Feeder Schedule
(Copper Conductors)

ENCL 240-3A (WIRE) 1 PHASE WITH NEUTRAL

FEEDER TAG	CONDUCTORS PHASE	NEUTRAL	EQUIP. GROUND	CONDUIT	MAX. PROTECTIVE DEVICE	REMARKS
1	3#10	#10	#10	3/4"	30A	
2	3#8	1#8	1#10	1"	40A	
3	3#6	1#6	1#8	1 1/4"	60A	
4	3#4	1#4	1#8	1 1/4"	90A	
5	3#2	1#2	1#8	1 1/4"	100A	
6	3#1	1#1	1#8	1 1/2"	125A	
7	3#1/0	1#1/0	1#8	2"	150A	
8	3#2/0	2#2/0	1#8	2	175A	
9	3#3/0	1#3/0	1#4	2"	200A	
10	3#4/0	1#4/0	1#4	2 1/2"	225A	
11	3-250	2-250	1#4	3"	250A	
12	3-300	2-300	1#2	3"	300A	
14	6-350	4-350	2#1	2-3"	600A	
15	6-500	2-500	2#1/0	(6) (2) 4"C	800A	
15T	3#8	–	1#8	1"	60A	
16T	3#4	–	1#8	1 1/4"	90A	
18T	3#1	–	1#8	1 1/2"	125A	
19T	3#1/0	–	1#8	2"	150A	
SDT	3#2/0	–	1#8	2"	175A	
SIT	–	–	–	(2) 4" (2) 1 1/4"		FOR FUTURE GENSET
SRT	3#350 KC mil	1#350	1#4	3"	300A	
SS	6-350	2-350	2#1	2-3"C	–	

● Where equipment ground conductor is not called out, raceway shall be used as equipment ground (except non-metallic conduits which shall have equipment ground conductor as per NEC-250).

AS-BUILTS

DRAWN BY	DATE	CHECKED BY	DATE
PCP	10/06/06	MP	10/06/06

tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9257
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA
owner

tBP project number : 2007.09
file name:
drawn by:s. checked by:
date: MARCH 26, 2008

Rev:	date:	description:
1	7-21-08	100 AMP SERVICE
2	09-15-08	ADA SIGNAGE
3	10-15-08	AS BUILTS

drawing title: SINGLE LINE DIAGRAM
building no.:
drawing no.: E5.1
drawing 7 of

TYPE: BOLT-ON | SERVICE: 277/480V, 3PH, 4W | BUS: 400A | MAIN: MLO | MTG: SURFACE | AIC: MATCH ET ABOVE

PANEL 10EH ① — LOCATION: ISSUE ELECT RM

LOAD SERVED	LCL	KVA	BREAKER TRIP	BREAKER POLE	NO.	PHASE	NO.	BREAKER POLE	BREAKER TRIP	KVA	LCL	LOAD SERVED
SPARE			20	1	1	A	2	1	20			SPARE
					3	B	4					
					5	C	6					
SPACE					7	A	8					SPACE
					9	B	10					
					11	C	12					
					13	A	14					
					15	B	16					
					17	C	18					
					19	A	20					
					21	B	22					
					23	C	24					
					25	A	26					
					27	B	28					
					29	C	30					
					31	A	32					
					33	B	34					
					35	C	36					
TRANSF "ETR"		37.5	175	3	37	A	38	3	225	51.3		PNL "10EH1"
		37.5			39	B	40			51.2		
		37.5			41	C	42			51.3		

SUB TOTAL CONN. LOAD KVA:
PHASE A: 88.8 | PHASE B: 88.7 | PHASE C: 88.8

TOTAL CONN. LOAD: 266.3 KVA
25% LCL = 25 (KVA) KVA
TOTAL: 266.3 KVA 319.6 AMPS

① PROVIDE SURGE SUPPRESSOR INTEGRAL WITH THE PANEL.

TYPE: BOLT-ON | SERVICE: 277/480V, 3PH, 4W | BUS: 225A | MAIN: 225 | MTG: SURFACE | AIC: 14,000

PANEL 10EH1 — LOCATION: ELECT RM #08

LOAD SERVED	LCL	KVA	BREAKER TRIP	BREAKER POLE	NO.	PHASE	NO.	BREAKER POLE	BREAKER TRIP	KVA	LCL	LOAD SERVED
(N) LTG W/ CNTRL OPERA	X	0.6	20	1	1	A	2	1	20			SPARE
	X	0.5	20	1	3	B	4					
	X	0.6	20	1	5	C	6					
(N) LTG W/ POWER PACK	X	2.2	20	1	7	A	8					SPACE
(N) EXIT LTG	X	0.1	20	1	9	B	10					
SPARE					11	C	12					
					13	A	14					
					15	B	16					
					17	C	18					
SPACE					19	A	20					
					21	B	22					
					23	C	24					
					25	A	26					
					27	B	28					
					29	C	30					
					31	A	32	3	90	16.7		UPS
					33	B	34			16.7		
					35	C	36			16.7		
(N) TRANSFORMER "ETI"		15.0	110	3	37	A	38	3	80	19.0		AC-1
		15.0			39	B	40			19.0		
		15.0			41	C	42			19.0		

SUB TOTAL CONN. LOAD KVA:
PHASE A: 53.5 | PHASE B: 51.3 | PHASE C: 51.3

TOTAL CONN. LOAD: 156.1 KVA
25% LCL = 25 (KVA) KVA
TOTAL: 156.1 KVA 187.3 AMPS

TYPE: BOLT-ON | SERVICE: 120/208V, 3PH, 4W | BUS: 400A | MAIN: 400A | MTG: SURFACE | AIC: 10,000

PANEL 10ER1 — LOCATION: (E) ELEC EQPT RM

LOAD SERVED	LCL	KVA	BREAKER TRIP	BREAKER POLE	NO.	PHASE	NO.	BREAKER POLE	BREAKER TRIP	KVA	LCL	LOAD SERVED
(E) PNL "10RB"		7.0	100	3	1	A	2	3	225	15.0		(E) PNL 10R1C
		7.0			3	B	4			15.0		
		7.0			5	C	6			15.0		
SPARE			20	1	7	A	8	3	225	15.0		(E) PNL 10R1B
					9	B	10			15.0		
					11	C	12			15.0		
					13	A	14					SPACE
					15	B	16					
EF-2		0.14			17	C	18					
SPACE					19	A	20					
					21	B	22					
					23	C	24					
					25	A	26					
					27	B	28					
					29	C	30					
					31	A	32					
					33	B	34					
					35	C	36					
					37	A	38					
					39	B	40					
					41	C	42					

SUB TOTAL CONN. LOAD KVA:
PHASE A: 37.0 | PHASE B: 37.0 | PHASE C: 37.1

TOTAL CONN. LOAD: 111.1 KVA
25% LCL = 25 (KVA) KVA
TOTAL: 111.14 KVA 309.0 AMPS

TYPE: BOLT-ON | SERVICE: 120/208V, 3PH, 4W | BUS: 225A | MAIN: 150 | MTG: SURFACE | AIC: 10,000

PANEL 10ER1A * — LOCATION: (N) ELEC ROOM #08

LOAD SERVED	LCL	KVA	BREAKER TRIP	BREAKER POLE	NO.	PHASE	NO.	BREAKER POLE	BREAKER TRIP	KVA	LCL	LOAD SERVED
RECEPT '@ RM 015		0.8	20	1	1	A	2	1	20	0.2		RECEPT '@ 007
RM 016		1.0			3	B	4			0.5		007A
ELECT PARTITION		1.0			5	C	6			0.5		
PRINTER		1.2			7	A	8			1.2		PRINTER
'@ RM 016		0.8			9	B	10			1.0		'@ ELEC RM
RM 017, 019,020		1.4			11	C	12			1.0		'@ ELEC PARTITION
RM 020		0.6			13	A	14			1.0		
RM 019/020		0.8			15	B	16			1.0		
RM 021		0.6			17	C	18			1.0		
SPARE					19	A	20			1.0		
					21	B	22			0.8	X	TRACK LTG
					23	C	24			0.8	X	
TRACK LTG	X	0.7			25	A	26			1.1	X	
	X	0.7			27	B	28			1.1	X	
SPARE					29	C	30			0.3	X	LTG @ HVAC ENCL
SPACE					31	A	32					SPACE
					33	B	34					
					35	C	36					
					37	A	38					
					39	B	40					
					41	C	42					

SUB TOTAL CONN. LOAD KVA:
PHASE A: 7.8 | PHASE B: 7.7 | PHASE C: 6.6

TOTAL CONN. LOAD: 22.1 KVA
25% LCL = 25 (5.5 KVA) 1.38 KVA
TOTAL: 23.475 KVA 65.3 AMPS

* WITH 200% NEUTRAL BUS

TYPE: BOLT-ON | SERVICE: 120/208V, 3PH, 4W | BUS: 225 | MAIN: 225 | MTG: RECESSED | AIC: 10,000

PANEL UR1 (SEC 1) * — LOCATION: TV OPERATIONS

LOAD SERVED	LCL	KVA	BREAKER TRIP	BREAKER POLE	NO.	PHASE	NO.	BREAKER POLE	BREAKER TRIP	KVA	LCL	LOAD SERVED
EQPT #200		1.5	20	1	1	A	2	1	20	1.5		EQPT #212
		1.5			3	B	4			1.5		EQPT #213
EQPT #201		1.5			5	C	6			1.5		EQPT #214
		1.5			7	A	8			1.5		
EQPT #202		1.5			9	B	10			1.5		EQPT #215
		1.5			11	C	12			1.5		
EQPT #203		1.5			13	A	14			1.5		EQPT #216
		1.5			15	B	16			1.5		EQPT #217
EQPT #204		1.5			17	C	18			1.5		EQPT #218
EQPT #205		1.5			19	A	20			1.5		EQPT #219
EQPT #206		1.5			21	B	22			1.5		EQPT #220
EQPT #207		1.5			23	C	24			1.5		EQPT #221
		1.5			25	A	26			1.5		EQPT #222
EQPT #208		1.5			27	B	28			1.5		EQPT #223
		1.5			29	C	30			1.5		EQPT #224
EQPT #209		1.5			31	A	32			1.5		EQPT #225
EQPT #210		1.5			33	B	34					SPARE
EQPT #211		1.5			35	C	36					
SPARE					37	A	38					
					39	B	40					
					41	C	42					

SUB TOTAL CONN. LOAD KVA:
PHASE A: 18.0 | PHASE B: 16.5 | PHASE C: 16.5

TOTAL CONN. LOAD: 51.0 KVA
25% LCL = 25 (KVA) KVA
TOTAL: 51 KVA 141.8 AMPS

* WITH 200% NEUTRAL BUS

TYPE: BOLT-ON | SERVICE: 120/208V, 3PH, 4W | BUS: 225 | MAIN: 225 | MTG: RECESSED | AIC: 10,000

PANEL UR2 * — LOCATION: TV OPERATIONS

LOAD SERVED	LCL	KVA	BREAKER TRIP	BREAKER POLE	NO.	PHASE	NO.	BREAKER POLE	BREAKER TRIP	KVA	LCL	LOAD SERVED
EQPT #230		0.8	20	1	1	A	2	1	20	1.5		EQPT #226
EQPT #231		0.8			3	B	4			1.4		EQPT #227
EQPT #232		0.8			5	C	6			1.0		EQPT #228
EQPT #233		1.5			7	A	8			1.0		EQPT #229
SPARE					9	B	10					SPARE
					11	C	12					
SPACE					13	A	14					
					15	B	16					SPACE
					17	C	18					
					19	A	20					
					21	B	22					
					23	C	24					
					25	A	26					
					27	B	28					
					29	C	30					
					31	A	32					
					33	B	34					
					35	C	36					
					37	A	38					
					39	B	40					
					41	C	42					

SUB TOTAL CONN. LOAD KVA:
PHASE A: 4.8 | PHASE B: 2.2 | PHASE C: 1.8

TOTAL CONN. LOAD: 8.8 KVA
25% LCL = 25 (KVA) KVA
TOTAL: 8.8 KVA 24.5 AMPS

* WITH 200% NEUTRAL BUS

AS-BUILTS

DRAWN BY	DATE	CHK'D BY	DATE
PCP	10/06/06	MP	10/06/06

FOR FINAL SAN MATEO COLLEGE BUILDING #9

tBP architecture planning interiors management
tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

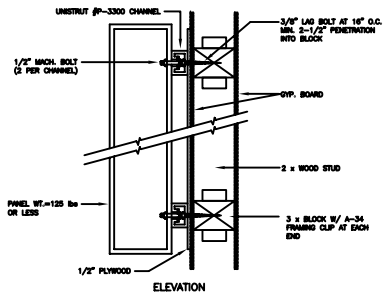
COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA
owner

tBP project number : 20377.00
file name:
drawn by: checked by:
date: MARCH 25, 2005

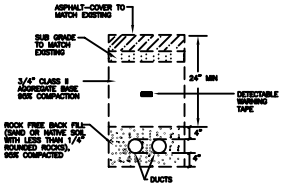
Rev:	date:	description:
7-21-05		100% DSA SUBMITTAL
09-29-06		DSA BACKCHECK
10-06-06		AS BUILTS

drawing title: building no.:
PANEL BOARD SCHEDULES

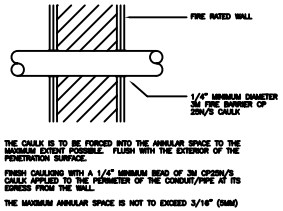
drawing no.: E6.1
drawing ? of



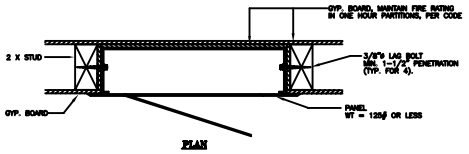
1 Typical Surface Panel
NOT TO SCALE



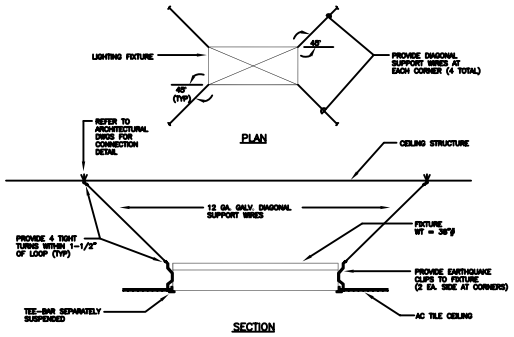
2 Underground Duct Detail
NOT TO SCALE



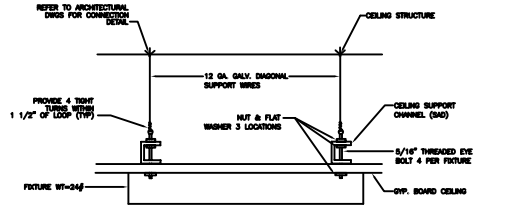
3 Penetration Thru Fire Rated Wall/Ceiling
UL Fire Stop System #WL1001



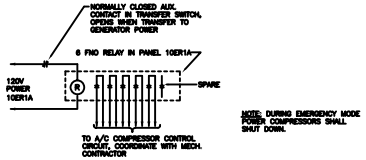
4 Typical Recessed Panel
NOT TO SCALE



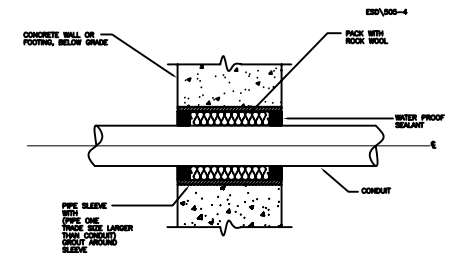
5 Mounting Detail Recessed Fixture
NOT TO SCALE



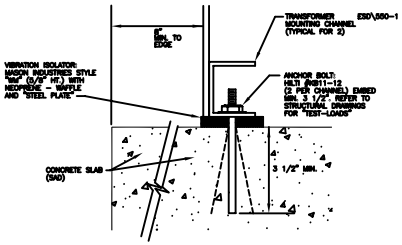
6 Mounting Detail Of Surface Mounted Fixtures
NOT TO SCALE



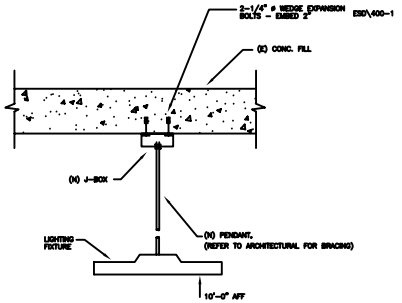
7 A/C COMP. LOCKOUT WIRING DIAGRAM



10 Below Grade Conduit Penetration Detail
NOT TO SCALE



9 Transformer Mounting Detail
NOT TO SCALE



8 Typical Pendant Mounting
NOT TO SCALE

tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL : PHASE I - SOUTH

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

owner

tBP project number : 2037.03

file name:

drawn by: checked by:

date: MARCH 25, 2005

Rev.	date:	description:
1	7-21-05	1ST DSA SUBMITTAL
2	09-29-05	DSA BACKCHECK
3	10-06-06	AS BUILTS

drawing title: ELECTRICAL DETAILS

building no.:

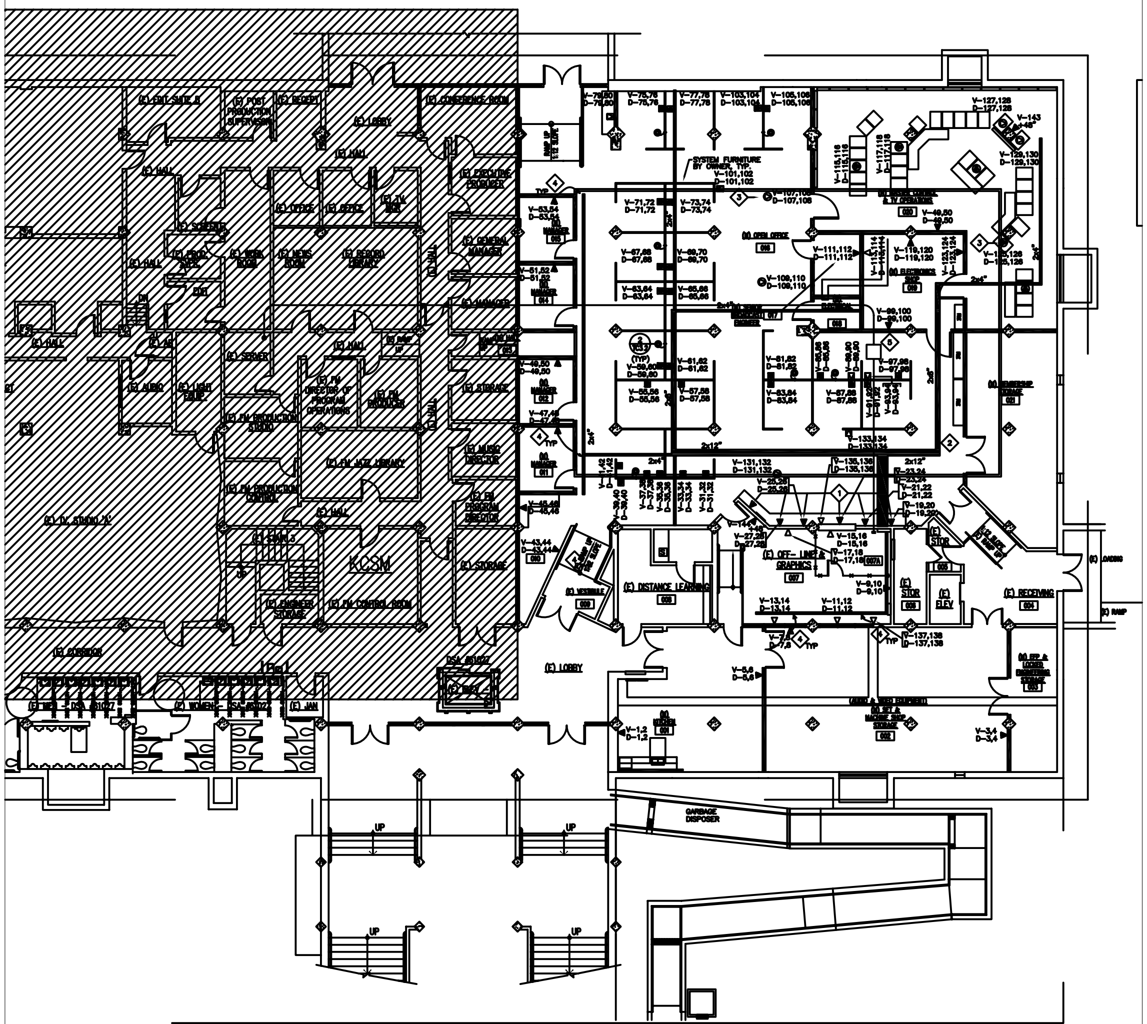
drawing no.: E7.1

drawing ? of

AS-BUILTS

DRAWN BY	DATE	CHECKD BY	DATE
PCP	10/06/06	MP	10/06/06

FOR PHASE 1 SAN MATEO COLLEGE BUILDING 9



1 GROUND FLOOR PLAN – COMMUNICATIONS (BUILDING 9)
SCALE: 1/8"=1'-0"

NORTH

SHEET NOTES:

1. WALL MOUNT TECHNOLOGY OUTLETS. COORDINATE WITH SYSTEM FURNITURE TO ENSURE THAT MODESTY PANELS DO NOT BLOCK ACCESS TO TECHNOLOGY OUTLET.
2. INSTALL UNDERFLOOR CABLE RUNWAY BENEATH RAISED FLOOR. WHERE RUNWAY CROSSES OTHER TRADES' WORK (E.G. ELECTRICAL), INSTALL ABOVE OTHER WORK. WHEN ROUTING PARALLEL TO OTHER TRADES' WORK, MAINTAIN A MINIMUM OF 12" SEPARATION FROM OTHER WORK.
3. MOUNT TECHNOLOGY OUTLETS INSTALLED BELOW RAISED FLOOR IN FLUSH (TO RAISED FLOOR PANELS) BOXES.
4. PROVIDE 3/4" C AND STUB INTO UNDERFLOOR CABLE RUNWAY.
5. PROVIDE (2) 2" CONDUITS W/28"SQUARE X 10" PULLBOX IN CEILING SPACE FIELD VERIFY EXACT ROUTING OF CONDUIT.

GENERAL NOTES:

1. REFER TO SECTION 16300 FOR COMMUNICATIONS CABLE SYSTEM SPECIFICS.

AS-BUILTS

DRAWN BY	DATE	CHCKD BY	DATE
PCP	10/06/06	MP	10/06/06

tBP architecture planning interiors management
tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fx: 949.673.9287
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

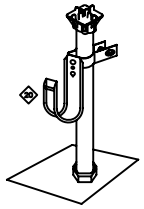
COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I – SOUTH
SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA
owner

tBP project number: 03577.00
file name:
drawn by: R.S. checked by:
date: MARCH 25, 2005

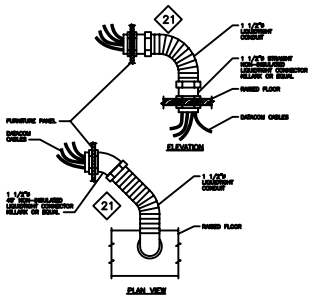
Rev: date:	description:
7-21-03	1ST DSA SUBMITTAL
03-25-05	DSA BACKCHECK
10-06-06	AS BUILTS

drawing title: building no.:
GROUND FLOOR COMMUNICATIONS

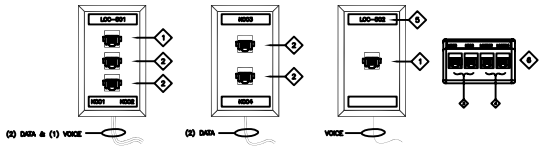
drawing no.:
TC3.1
drawing # of



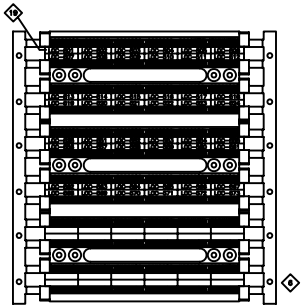
1 J-HOOK UNDERFLOOR SUPPORT
NTS



2 SYSTEM FURNITURE WHIP
NTS



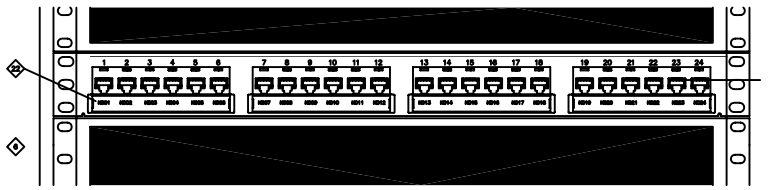
3 FACEPLATE LABELING SCHEME
NTS



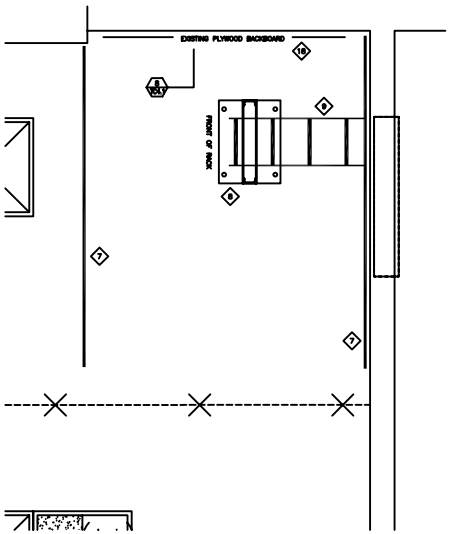
4 LABELING SCHEME - VOICE
NTS

SHEET NOTES:

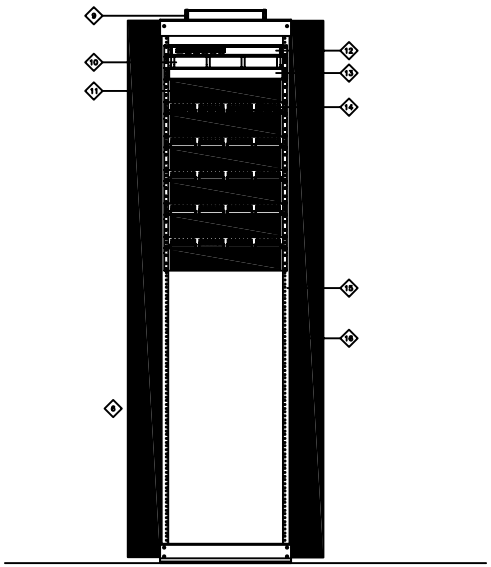
1. VOICE CONNECTOR W/4-PAIR VOICE CABLE TERMINATED TO T568B.
2. DATA CONNECTOR W/4-PAIR DATA CABLE TERMINATED TO T568B.
3. IN SYSTEM FURNITURE, TERMINATE THE DATA TO THE LEFT OF THE VOICE.
4. IN SYSTEM FURNITURE, TERMINATE THE VOICE TO THE RIGHT OF THE DATA.
5. LABEL VOICE JACKS BEGINNING WITH LCC-001 AND INCREMENTING BY ONE, ENDING WITH LCC-025. CONTINUE LABELING VOICE JACKS STARTING WITH LCC-001 AND INCREMENTING BY ONE.
6. REFER TO SECTION 16300 FOR SPECIFICS ON ACCEPTABLE MATERIAL.
7. PROVIDE 3/4" A/C GRADE PLYWOOD ALONG NORTH AND SOUTH WALLS AS SHOWN. START PLYWOOD AT 4" ABOVE RAISED FLOOR. PAINT WITH TWO COATS OF WHITE LATEX PAINT. REMOVE/RE EXISTING EQUIPMENT AS NECESSARY.
8. EXISTING EQUIPMENT RACK WITH OVERHEAD CABLE RUNWAY, ANCHOR EQUIPMENT RACK TO CONCRETE SLAB THROUGH RAISED FLOOR.
9. CABLE RUNWAY (EXISTING)
10. HORIZONTAL FIBER JUMPER MANAGER - 1U
11. HORIZONTAL PATCH CORD MANAGER - 2U
12. FIBER DISTRIBUTION SHELF - 1U
13. FILLER PANEL - 1U
14. 24-PORT PATCH PANEL (DATA)
15. EQUIPMENT RACK (EXISTING)
16. VERTICAL PATCH CORD MANAGER
17. NEW VOICE TERMINATION HARDWARE. MOUNT TO ACCOMMODATE EXISTING HARDWARE
18. EXISTING TERMINATION HARDWARE BACKBOARD. REMOVE TERMINATION HARDWARE THAT IS ABANDONED OR BECOMES ABANDONED AS PART OF THIS WORK.
19. VOICE TERMINATION BLOCK WITH LABELING SCHEME TO BE USED.
20. PROVIDE J-HOOKS ATTACHED TO RAISED FLOOR PEDASTALS AS SHOWN. PROVIDE J-HOOKS ON 48" CENTERS BETWEEN POINT OF CABLE ENTRIES AND UNDERFLOOR CABLE RUNWAY. INSTALL J-HOOKS AND CABLE SO CABLE PATHS RUN PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS. ROUTE CABLE BUNDLES SWINGS ON ONE SIDE OF RAISED FLOOR PEDESTALS.
21. PROVIDE 1 1/4" DIA LIQUIDTIGHT FITTINGS AS SHOWN BETWEEN THE RAISED FLOOR PANELS AND THE SWAGE PANEL OF THE HERMAN MILLER ETHOSPACE SYSTEM FURNITURE.
22. PATCH PANEL LABELING. START WITH H001 AND INCREMENT BY ONE.



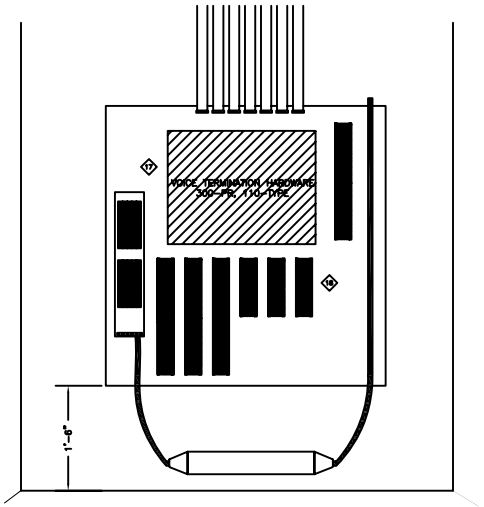
5 LABELING SCHEME - DATA
NTS



6 (N) SERVER ROOM 007A
NTS



7 EQUIPMENT RACK LAYOUT
NTS



8 EAST WALL ELEVATION, RM 007A
NTS

AS-BUILTS

DRAWN BY	DATE	CHK'D BY	DATE
PCP	10/06/06	MP	10/06/06

RE PANEL SAN MATEO COLLEGE BUILDING #9

tBP/Architecture
2300 Newport Boulevard
Newport Beach, CA 92663
ph: 949.673.0300 fax: 949.673.9267
architect

Ford Engineers, Inc.
CHAMBERLAIN / PAINTER
consultant

agency

COLLEGE OF SAN MATEO
BUILDING 9 REMODEL :
PHASE I - SOUTH

SAN MATEO COMMUNITY COLLEGE DISTRICT
SAN MATEO, CALIFORNIA

owner

tBP project number: 0507.03
file name:
drawn by: S. checked by:
date: MARCH 28, 2006

Rev:	date:	description:
1	7-21-06	100% DSA SUBMITTAL
2	09-25-06	DSA BACKCHECK
3	10-06-06	AS BUILTS

drawing title: COMMUNICATIONS DETAILS
building no.:
drawing no.: TC3.2
drawing # of