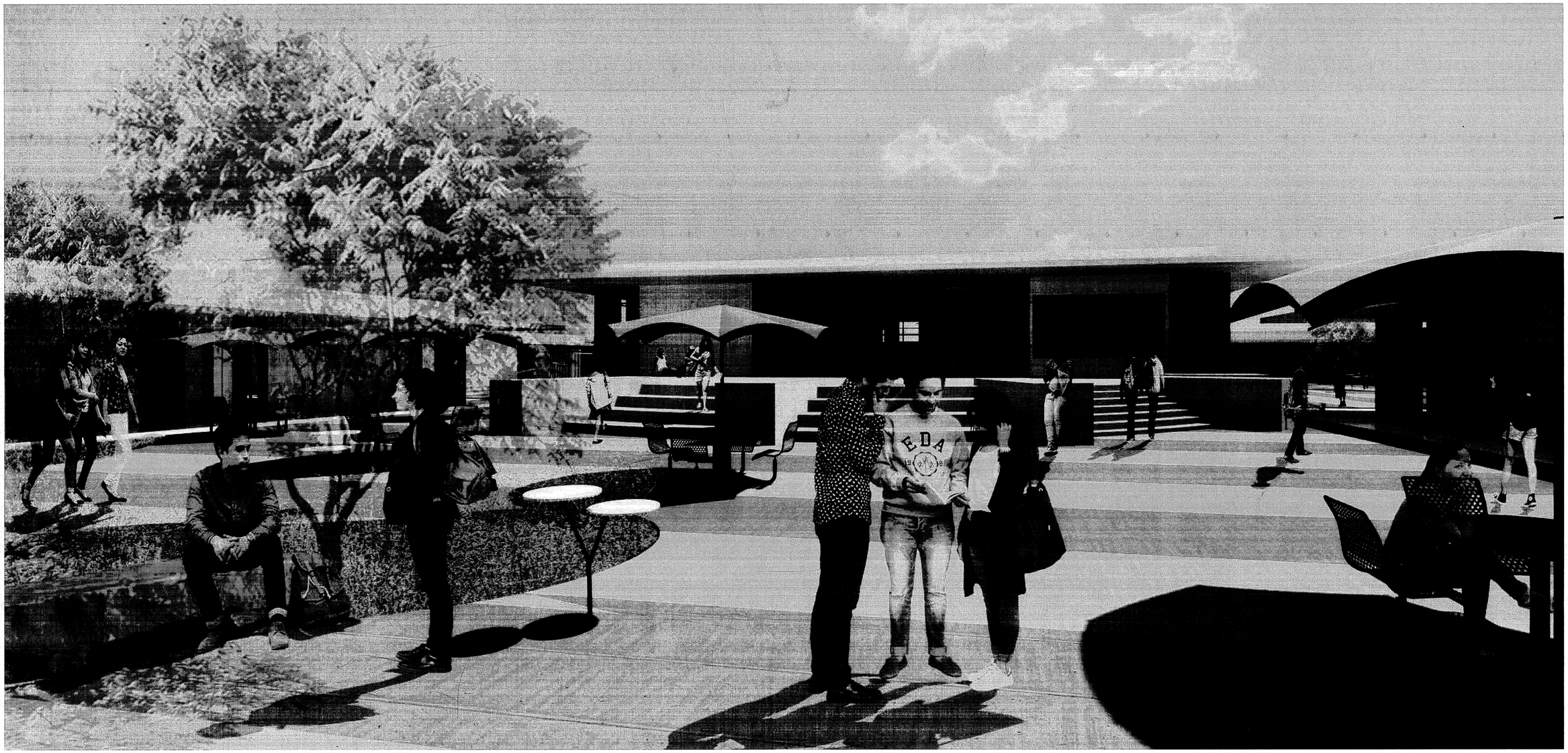


EAST SIDE
HIGH SCHOOL DISTRICT
Silicon Valley

Mt. Pleasant High School

1750 S. White Road
San Jose, CA 95127

February 15, 2017

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LICENSED ARCHITECT
ROBERT MARK BAHN
STATE OF CALIFORNIA

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kansas city • lawrence • new orleans
phoenix • san francisco • tampa

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1115-0130

Abbreviations

A	
A/C	Air Conditioning
AB	Anchor Bolt
ABV	Above
AC or ACOUS	Acoustical
ACC	Access
ACFL	Access Floor
ACPL	Acoustical Plaster
ACT	Acoustical Tile
ACU	Air Conditioning Unit
AD	Access Door
AD	Area Drain
ADD	Addendum
ADDL	Additional
ADH	Adhesive
ADJ	Adjacent
ADJT	Adjustable
AFF	Above Finish Floor
AGG	Aggregate
AHU	Air Handling Unit
ALLOW	Allowance
ALT	Alternate
ALUM	Aluminum
ANC	Anchor, Anchorage
ANG	Angle
ANOD	Anodized
AP or AC PNL	Access Panel
APC	Architectural Precast Concrete
APPROX	Approximate
APT	Apartment
ARCH	Architect(ural)
ASC	Above Suspended Ceiling
ASPH	Asphalt
AUTO	Automatic
AVE	Avenue
AVG	Average
AWT	Acoustical Wall Treatment
B	
B&B	Balled & Bagged
BAL	Balance
BBD	Bulletin Board
BC	Back of Curb
BD	Board
BF	Bottom Face
BFE	Bottom Footing Elevation
BG	Bumper Guard
BITUM	Bituminous
BJT	Bed Joint
BL	Building Line
BLDG	Building
BLK	Block
BLKG	Blocking
BLR	Boiler
BLW	Below
BM	Beam
BM	Bench Mark
BO	By Others/Owner
BOC	Bottom of Curb
BOS	Bottom Of Steel
BOT	Bottom
BPL	Bearing Plate
BR	Bedroom
BRG	Bearing
BRIDG	Bridging
BRK	Brick
BRKT	Bracket
BRZ	Bronze
BS	Both Sides
BSMT	Basement
BTWN	Between
BUR	Built-up Roofing
BVL	Bevel(led)
BW	Both Ways
BYND	Beyond
C	
C	Celsius, Degree
C	Channel
C to C	Center to Center
C of O	Certificate Of Occupancy
CAB	Cabinet
CANTL	Cantilever
CB	Catch Basin
CCTV	Closed Circuit Television
CEM	Cement
CER	Ceramic
CF	Cubic Foot
CFM	Cubic Feet Per Minute
CG	Corner Guard
CH	Coat Hook
CHAM	Chamfer
CHBD	Chalkboard
CHEM	Chemical, Chemistry
CI	Cast Iron
CI	Cubic Inch
CIP	Cast Iron Pipe
CIPC	Cast-In-Place Concrete
CIR	Circle
CJ	Control Joint
CKT	Circuit
CL	Center Line
CLG	Ceiling
CLG HT	Ceiling Height
CLL	Contract Limit Line
CLO	Closet
CLR	Clear(ance)
CLRM	Classroom
CM	Centimeter(s)
CM	Construction Manager
CMP	Corrugated Metal Pipe
CMU	Conc. Masonry Unit
CND	Conduit
CO	Change Order
CO	Clean Out
COL	Column
COMM	Communication Outlet
CONC	Concrete
COND	Condenser or Condensate
CONF	Conference
CONN	Connect(ed)(ion)
CONST	Construction
CONT	Continuous
CONTR	Contractor
COORD	Coordinate
CORR	Corridor
CORR	Corrugated
CPT	Carpet(ed)
CRS	Course(s)
CRT	Computer Terminal
CSMT	Casement
CST	Cast Stone
CSWK	Casework
CT	Ceramic Tile
CT	Cooling Tower
CTR	Center
CUH	Cabinet Unit Heater
CW	Cold Water
CY	Cubic Yard
CYL	Cylinder
D	
D	Depth
DB	Decibel
DBL	Double
DBL ACT	Double Acting
DC	Direct Current
DEG	Degree
DEMO	Demolish, Demolition
DEPT	Department
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIAG	Diagonal
DIFF	Diffuser
DIM	Dimension
DIR	Direction, Director
DISP	Dispenser
DIST	Distribution
DIV	Division
DK	Dark
DL	Dead Load
DMT	Demountable
DN	Down
DO	Ditto
DO	Door Opening
DP	Dampproofing
DP	Deep
DR	Doctor
DR	Door
DS	Downspout
DSGN	Design
DTL	Detail
DUP	Duplicate
DW	Dishwasher
DWG	Drawing
DWL(S)	Dowel(s)
DWR	Drawer
E	
E	East
EA	Each
EE	Each End
EF	Each Face
EF	Exhaust Fan
EG	Exhaust Grille
EIFS	Exterior Insulation & Finish System
EJT	Expansion Joint
EL or ELEV	Elevation
ELAS	Elastomeric
ELEC	Electrical
ELEV	Elevator
EMER	Emergency
ENCL	Enclosure
ENGR	Engineer
ENTR	Entrance
EQ	Equal
EQUIP	Equipment
ESC	Escalator
EST	Estimate
ESTB	Establish
EW	Each Way
EWC	Electric Water Cooler
EXH	Exhaust
EXIST'G	Existing
EXP	Expansion
EXT	Exterior
EXTRU	Extrusion
F	
F	Fahrenheit
FA	Fire Alarm
FAS	Fasten, Fastener
FB	Face Brick
FBO	Furnished By Others
FCO	Floor Cleanout
FD	Floor Drain
FDTN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Finished Floor
FF&E	Fixtures, Furniture & Equipment
FFE	Finished Floor Elevation
FFL	Finished Floor Line
FH	Fire Hydrant/Hose
FHC	Fire Hose Cabinet
FHMS	Flat Head Machine Screws
FHWS	Flat Head Wood Screws
FIN	Finish
FIX	Fixture
FL	Flow Line
FLASH	Flashing
FLR	Floor
FLUOR	Fluorescent
FOC	Face of Concrete
FOF	Face Of Finish
FOM	Face of Masonry
FOS	Face of Stud
FOW	Face of Wall
FP	Fireproof
FR	Fire Rated, Fire Retardant
FRM	Frame
FS	Full Size
FSP	Fire Stand Pipe
FT'	Foot, Feet
FTG	Footing
FUR	Furring
FURN	Furnish
FUT	Future
FV	Field Verify
FVC	Fire Valve Cabinet
G	
G	Gas
GA	Gage or Gauge
GAL	Gallon
GALV	Galvanized
GB	Grab Bar
GC	General Contract(or)
GEN	Generator
GFRC	Glass Fiber Reinforced Concrete
GFRG	Glass Fiber Reinforced Gypsum
GL	Glass
GLU LAM	Glue Laminated
GR	Grade
GR BM	Grade Beam
GRND	Ground
GSF	Gross Square Feet
GU	Gutter
GWB	Gypsum Wallboard
GYP BD	Gypsum Wallboard
GYP	Gypsum
H	
H	High
H PT	High Point
HB	Hose Bibb
HC	Hollow Core
HD	Head
HDBD	Hardboard
HDR	Header
HDWR	Hardware
HDWD	Hardwood
HJT	Head Joint
HM	Hollow Metal
HNDRL	Handrail
HORIZ	Horizontal
HP	Horsepower
HR	Hour
HT	Height
HTG	Heating
HTR	Heater
HVAC	Heating, Ventilating, Air Conditioning
HW	Hot Water
HWH	Hot Water Heater
HWY	Highway
HYD	Hydrant
HZ	Hertz
I	
ID	Inside Diameter
IGU	Insulated Glazing Unit
IF	Inside Face
ILLUM	Illumination
IN"	Inches
INC	Include(d) (ing)
INFO	Information
INSUL	Insulation
INSUL PNL	Insulated Panel
INT	Interior
INVT	Invert
INVT EL	Invert Elevation
J	
JAN	Janitor
JB	Junction Box
JC	Janitor's Closet
JST	Joist
JST BR	Joist Bearing
JT	Joint
K	
K	Kips
KD	Knocked Down
KIT	Kitchen
KO	Knockout
KPL	Kick Plate
KVA	Kilovolt Amps
KW	Kilowatts
L	
L	Length
LAB	Laboratory
LAM	Laminated
LAV	Lavatory
LG	Large
LH	Left Hand
LIN	Linear
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC	Locate, Location
LONG	Longitudinal
LP	Low Point
LT	Light
LTG	Lighting
LTL	Lintel
LVR	Louver
LWT	Lightweight
LWT CONC	Lightweight Concrete
M	
M	Meter
MACH	Machine
MAINT	Maintenance
MAN	Manual
MAS	Masonry
MATL	Material
MAX	Maximum
MBR	Member
MDF	Medium Density Fiberboard
MECH	Mechanical
MED	Medium
MEMB	Membrane
MEZZ	Mezzanine
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MIN	Minute
MIR	Mirror
MISC	Miscellaneous
MIX	Mixture
MLDG	Molding
MLWK	Millwork
MM	Millimeter
MO	Masonry Opening
MOD	Modified, Modular
MS	Machine Screw
MTD	Mounted
MTL	Metal
MTR	Mortar
MULL	Mullion
N	
N	North
NA	Not Applicable
NAT	Natural
NE	Northeast
NIC	Not In Contract
NO, Num, #	Number
NOM	Nominal
NORM	Normal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
NW	Northwest
O	
OA	Overall
OB	Obscure
OB GL	Obscure Glass
OC	On Center
OD	Outside Diameter
OFF	Office
OH	Overhead
OPNG	Opening
OPP	Opposite
ORD	Overflow Roof Drain
ORIG	Original
OTO	Out to Out
OZ	Ounce
P	
PC	Precast Concrete
PC	Point of Curve
PCF	Pounds per Cubic Foot
PERF	Perforated
PERP	Perpendicular
PI	Point of Intersection
PL	Plate
PL	Property Line
PLAM	Plastic Laminate
PLAS	Plaster
PLUMB	Plumbing
PLYWD	Plywood
PNL	Panel
PR	Pair
PREFAB	Prefabricated
PRELIM	Preliminary
PROJ	Projection
PROP	Property
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Paint
PT	Point, Point of Tangent
PTD	Painted
PTD	Paper Towel Dispenser
PTN	Partition
PVC	Polyvinyl Chloride
PVMT	Pavement
PWD	Plywood
Q	
QT	Quarry Tile
QT	Quart
QTY	Quantity
QTR	Quarter
QUAL	Quality
R	
R, RAD	Radius
R	Riser
RA	Return Air
RB	Rubber Base
RCP	Reinforced Concrete Pipe
RD	Roof Drain
RE or REF	Reference
REBAR	Reinforcing Bar
REC	Recessed
RECP	Receptacle
RECT	Rectangular
REFR	Refrigerator
REG	Regular
REINF	Reinforcing (ed)
REQD	Required
RET	Return
REV	Revision
RFG	Roofing
RH	Right Hand
RLF	Relief
RM	Room
RND	Round
RO	Rough Opening
ROW	Right-of-Way
RR	Railroad
S	
S	South
SA	Supply Air
SAN	Sanitary
SC	Solid Core
SCD JT	Scored Joint
SCHED	Schedule
SE	Southeast
SECT	Section
SHT	Sheet
SIM	Similar
SPEC	Specification
SPKR	Speaker
SQ	Square
SQ FT or SF	Square Foot
ST STL or SS	Stainless Steel
STAG	Staggered
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
STOR	Storage
STRUCT	Structural
STRUCT STL	Structural Steel
SUSP	Suspended
SW	Southwest
SW	Switch
SYS	System
T	
T	Tread
T&G	Tongue and Groove
TB	Towel Bar
TEL	Telephone
TEMP	Temperature
TEMP	Temporary
TEMP GL	Tempered GlassL
TEX FIN	Textured Finish
THERM	Thermal
THK	Thick(ness)
TKBD	Tackboard
TOB	Top of Beam
TOC	Top of Curb (Concrete)
TOD	Top of Deck
TOF	Top of Footing
TOP	Top of Pier
TOPAR	Top of Parapet
TOS	Top of Steel
TOW	Top of Wall
TPD	Toilet Paper Dispenser
TR	Transom
TV	Television
TYP	Typical
U	
UL	Underwriter's Laboratories
UNFIN	Unfinished
UNO	Unless Noted Otherwise
UR	Urinal
USG	United States Gage
UTIL	Utility
V	
V	Volt
VAL	Value
VAR	Varnish
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VEN	Veneer
VENT	Ventilating
VERT	Vertical
VEST	Vestibule
VIF	Verify In Field
VIT	Vitreous
VOL	Volume
VWC	Vinyl Wall Covering
W	
W	West
W	Wide, Width
W/	With
W/O	Without
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WG	Wired Glass
WH	Water Heater
WI	Wrought Iron
WPT	Working Point
WSCT	Wainscot
WT	Weight
WTW	Wall to Wall
WWF	Welded Wire Fabric
Y	
YD	Yard
SYMBOLS:	
&	AND
@	AT
#	POUND OR NUMBER
Ø	DIAMETER OR ROUND

Materials & Graphic Symbols

01 GENERAL

- NEW WALL
- EXISTING WALL TO BE REMOVED
- EXISTING WALL TO BE REMOVED
- BUILDING/DETAIL SECTION (1 / SIM / G001)
- DETAIL REFERENCE (1 / SIM / G001)
- BREAK LINE
- ROOM TAG (Room name / 101)
- INTERIOR PARTITION TYPE SYMBOL
- WINDOW TYPE SYMBOL (1t)
- BENCHMARK/SPOT ELEV. SYMBOL
- COLUMN LINE/GRID INDICATOR (0)
- REVISION INDICATOR (1)
- DOOR TAG (101)
- FLOOR LEVEL SYMBOL
- CEILING HEIGHT SYMBOL (1i)
- NORTH ARROWS (PLAN NORTH / TRUE NORTH)
- DIMENSION (1 1/2")
- ALIGN TWO WALLS OR OBJECTS (ALIGN)

MATERIALS GRAPHICS

02 SITE CONSTRUCTION
- EARTH (existing)
- EARTH (backfill)
- DRAINAGE FILL

03 CONCRETE
- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE

04 MASONRY
- BRICK
- CONCRETE MASONRY UNITS
- GLASS BLOCK
- STONE
- CAST STONE
- GROUT

05 METALS
- ALUMINUM
- STEEL

06 WOODS AND PLASTICS
- CONTINUOUS WOOD
- INTERMITTENT WOOD
- FINISH WOOD
- HARDBOARD
- MEDIUM DENSITY FIBER BOARD (MDF)
- PARTICLE BOARD
- PLYWOOD
- SOLID SURFACE MATERIAL

07 THERMAL & MOISTURE PROTECTION
- BATT INSULATION
- LOOSE FILL INSULATION
- RIGID INSULATION

08 GLAZING
- GLASS

09 FINISHES
- LATH AND PLASTER
- GYPSUM BOARD

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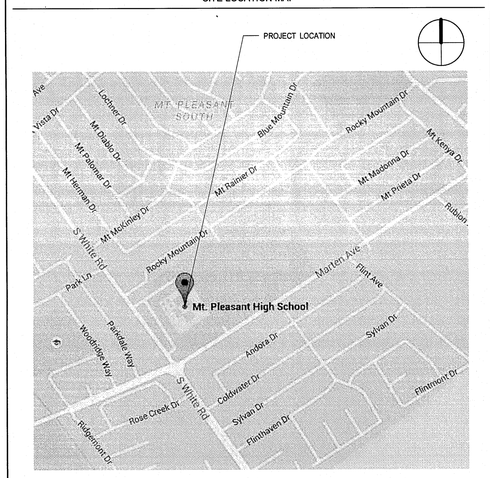
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SITE LOCATION MAP



DSA Supplementary Conditions

1. THE FOLLOWING INFORMATION FROM PART ONE, TITLE 24 CCR SHALL BE INCLUDED IN THE CONTRACT DOCUMENTS:
   - ALL ADDENDA AS PER SECTION 4-338, PART 1, SHALL BE SIGNED BY ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER AND APPROVED BY DSA.
   - ALL CONSTRUCTION CHANGE DOCIMENTS (CCD) AND FIELD CHANGE DIRECTIVES (PRELIMINARY CHANGE ORDERS) (SECTION 4-338(c), PART 1) MUST BE SIGNED BY ALL OF THE FOLLOWING, PRIOR TO COMMENCEMENT OF WORK CHANGES:
   A. A/E OF RECORD
   B. OWNER (CCD ONLY)
   C. STRUCTURAL ENGINEER (WHEN APPLICABLE)
   D. DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE) AND APPROVED BY DSA
2. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CHANGE ORDER OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6)(SECTION 4-338(c), PART 1). SUBSTITUTIONS SHALL BE FOR ANY MATERIAL SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
3. CONTRACTOR SHALL SUBMIT VERIFIED REPORT PER SECTION 4.336 AND 4-343(c) ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, CCR,.
   A. DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) and 4-341
   B. DUTIES OF CONTRACTOR PER SECTION 4-336
   C. VERIFIED REPORTS PER SECTION 4-336
4. A COPY OF PART 1 THRU 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION. PROJECT SHALL COMPLY WITH PARTS 1 THRU 6 OF TITLE 24.
5. DSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER SECTION 4-331.
6. SUPERVISION BY DSA PER SECTION 4-343.
7. DSA IS NOT SUBJECT ARBITRATION.
8. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AGENDA OR CCD, TO BE APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE-24, C.C.R.
9. A PROJECT INSPECTOR, EMPLOYED BY THE OWNER, AND APPROVED BY THE DIVISION-3 DSA, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK, AS REQUIRED BY DSA. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE-24 C.C.R.

Architect's Statement of General Conformance

THE FOLLOWING DRAWINGS, DETAILS, AND SPECIFICATIONS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE OF CALIFORNIA. THESE DOCUMENTS HAVE BEEN EXAMINED BY GOULD EVANS, INC. AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF PART 2, TITLE-24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY GOULD EVANS, INC.

CIVIL
LANDSCAPE
STRUCTURAL
ELECTRICAL + LIGHTING + LOW VOLTAGE
MECHANICAL + PLUMBING
FIRE ALARM
SECURITY
TELECOMMUNICATIONS

THESE DOCUMENTS ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH GOULD EVANS, INC. IS DESIGNATED TO BE THE ARCHITECT OF RECORD, AS DEFINED IN SECTION 16, TITLE-24 CALIFORNIA CODE OF REGULATIONS.

SIGNED: _____ DATE: 2/15/2017

Project Information

Project Scope

MODERNIZATION OF EXISTING LIBRARY BUIDING INCLUDING ADJACENT QUADS WHICH WILL INCLUDE ALL NECESSARY SITE IMPROVEMENTS. SITE IMPROVEMENTS INCLUDE ALL ASSOCIATED UTILITIES, SITE DRAINAGE, LANDSCAPING, ACCESSIBILITY AND LOGISTICS.

THE 7,056 GROSS SQUARE FOOT MODERNIZED LIBRARY WILL INCLUDE STUDY/OFFICE SPACES, A GROUP GATHERING OR COMMUNAL SPACE, STUDY AREAS WITH BOOK STACKS AND BUILDING SUPPORT.

Authorities Having Jurisdiction

Division of State Architect (DSA)

Previous DSA Project Numbers : See G120

DSA NUMBER	DSA APPROVED DATE	DSA CLOSE OUT DATE
01-101948	09/27/1999	
01-101167	05/21/1999	08/24/1999
01-102187	11/06/2000	03/12/2003
01-104879	12/13/2002	02/04/2004
01-103732	08/08/2001	01/31/2005
01-102502	03/14/2000	11/17/2010
01-107039	03/23/2006	03/01/2011
01-106643	11/22/2004	07/26/2011
01-111584	03/16/2011	01/05/2012
01-111455	03/16/2011	08/07/2013
01-115184	12/21/2015	11/08/2013
01-101277	02/02/1999	08/24/2015
01-103848	06/20/2001	VOID
01-103228	06/28/2001	VOID

Code Analysis

SEE SHEETS G110 FOR CODE ANALYIS INFORMATION.

A "DSA Certified" project inspector employed by the District (Owner) and approved by DSA shall provide continuous inspection of the work. The duties of the inspector are designed in Section 4-342, Part 1, Title 24, CCR

A DSA accepted testing laboratory directly employed by the District (Owner) shall conduct all the required tests and inspection for the project.

The intent of these drawings and specifications is that the work of the alternation, rehabilitation or reconstruction is to be in accordance with Title 24, CCR Should any existing conditions such as deterioration or non-complying construction be discovers which is not covered by the contract documents wherein finished work will not comply with title 24, CCR, a construction chance document (CCS) or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by DSA before proceeding with work. (Section 4-317 ©, Part 1, Title 24, CCR)

Grading plans, drainage improvements, road and access requirements and environmental health considerations shall comply with all local ordinances.

Codes and Regulations

ALL WORK SHALL CONFORM TO 2013 EDITION OF TITLE 24, CARLIFORNIA CODE OF REGULAITONS

2013 CALIFORNIA BUILDING CODE

2013 CALIFORNIA ELECTRICAL CODE

2013 CALIFORNIA MECHANICAL CODE

2013 CALIFORNIA FIRE CODE

2013 CALIFORNIA ADMINISTRATIVE CODE (CCR TITLE 24, PART1)

2013 CALIFORNIA ENERGY CODE (CCR TITLE-24, PART 6)

2013 CALIFORNIA REFERENCED STANDARDS CODE

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

EAST SIDE UNION HIGH SCHOOL DISTRICT STANDARDS

Project Data

ADDRESS:	1750 SOUTH WHITE ROAD SAN JOSE, CALIFORNIA 95127
APN:	69427-185
GROSS SQUARE FEET:	7,056 SF
BUILDING TYPE:	TYPE I, F.R., NOT SPRINKLERED
OCCUPANCY:	E, B
NUMBER OF STORIES:	1
HEIGHT:	16' - 2 1/2"

General Notes:

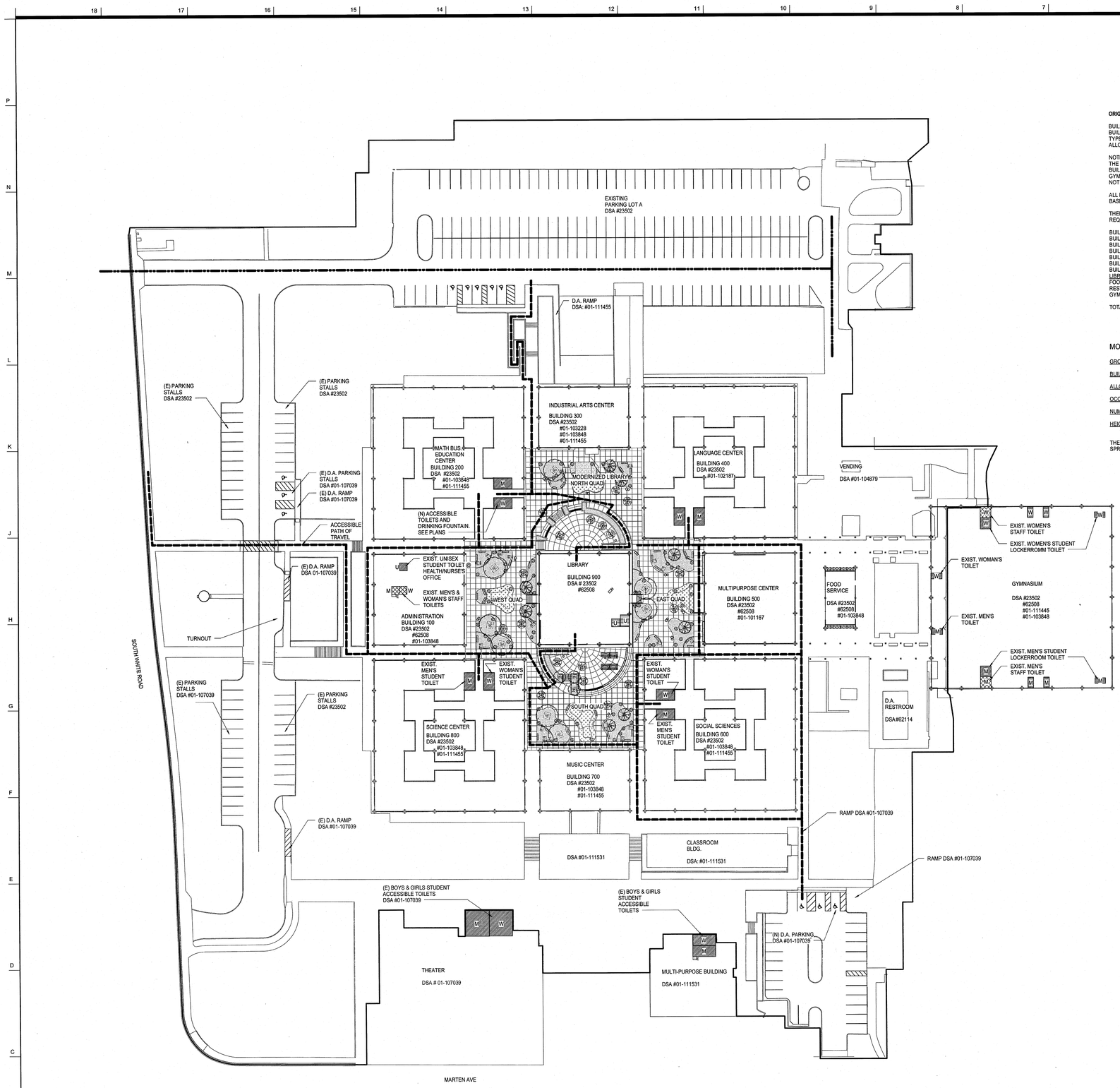
1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS.
2. ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.
3. DRAWINGS, SPECIFICATIONS, GENERAL AND SUPPLEMENTARY CONDITIONS ARE ESSENTIAL PARTS OF THE CONTRACT. IN THE EVENT OF ANY DISCREPANCY BETWEEN A DRAWING AND FIGURES WRITTEN THEREON, THE FIGURES, UNLESS OBVIOUSLY INCORRECT, ARE TO GOVERN OVER SCALED DIMENSIONS. IN THE CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS ARE TO GOVERN. IF THERE IS A DISCREPANCY BETWEEN LARGE AND SMALL SCALE DETAILS, THE LARGER SCALE DETAILS ARE TO GOVERN. SUPPLEMENTARY CONDITIONS SHALL GOVERN OVER SPECIFICATIONS, DRAWINGS AND GENERAL CONDITIONS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BETWEEN CONTRACT DOCUMENTS AS SOON AS THEY ARE DISCOVERED.
4. NOTWITHSTANDING THE ABOVE, IN THE CASE OF INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM OR BY ARCHITECT'S SUPPLEMENTAL INSTRUCTION, THE BETTER QUALITY OR GREATER QUANTITY SHALL BE PROVIDED.
5. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS. IF DIMENSIONS APPEAR TO BE INSUFFICIENT OR INCORRECT, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT.
6. WHENEVER CONTRACT DOCUMENTS REASONABLY IMPLY MATERIALS OR INSTALLATION AS NECESSARY TO PRODUCE THE INTENDED RESULTS, BUT DO NOT FULLY DETAIL OR SPECIFY SUCH MATERIALS, THE CONTRACTOR SHALL PROVIDE THE MATERIALS AND LABOR REQUIRED FOR INSTALLATION NONETHELESS.
7. PROVIDE ALL WORK INDICATED UNLESS SPECIFICALLY INDICATED AS "NOT IN CONTRACT" (NIC), "FURNISHED BY OTHERS" (FBO) OR "EXISTING".
8. CONTRACT DOCUMENTS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT.
9. THESE NOTES ARE NOT INTENDED TO LIMIT THE RESPONSIBILITIES OF THE CONTRACTOR AS DEFINED ELSEWHERE IN THE CONTRACT DOCUMENTS

General Materials & Equipment Notes:

1. PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR METALS.
2. INSTALL PIPING AND CONDUIT TIGHT TO WALLS, COLUMNS AND ROOF DECK.
3. SEAL ALL PIPE OR CONDUIT PENETRATIONS WITH APPROPRIATE SEALANT. PROVIDE FIRE SEALANT AT RATED PARTITIONS.
4. PLYWOOD AND WOOD BLOCKING SHALL BE FIRE RESISTANT.
5. DO NOT CUT OR DRILL ANY STRUCTURAL MEMBER, OTHER THAN DESCRIBED ON THE STRUCTURAL DRAWINGS, WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

General Architectural Drawing Notes:

1. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED



ORIGINAL CAMPUS - BUILDING CODE ANALYSIS

BUILDING OCCUPANCY GROUP:	E1, B
BUILDING AREA (SF):	13984 SQ.FT
TYPE OF CONSTRUCTION:	I FIRE RESTRICTIVE
ALLOWABLE FLOOR AREA (SF):	UNLIMITED

NOTE:
THE TYPE OF CONSTRUCTION OF THE EXISTING BUILDINGS (CLASSROOM BUILDINGS 100 – 800, RESOURCE LIBRARY, FOOD SERVICE, RESTROOM AND GYMNASIUM) ITS TYPE I-FIRE RESISTIVE. BUILDING 900 IMPROVEMENTS WILL NOT CHANGE THESE REQUIREMENTS.

ALL BUILDINGS ARE ONE STORY IN HEIGHT EXCEPT BUILDING 300 WHICH HAS A BASEMENT.

THERE IS NO EXISTING OR PROPOSED AUTOMATIC SPRINKLER. NONE IS REQUIRED PER CBC.

BUILDING 100:	7056 SQ.FT
BUILDING 300:	4704 SQ.FT
BUILDING 400:	19600 SQ.FT
BUILDING 500:	7056 SQ.FT
BUILDING 600:	19600 SQ.FT
BUILDING 700:	4704 SQ.FT
BUILDING 800:	19600 SQ.FT
LIBRARY - BLDG 900:	7056 SQ.FT
FOOD:	1568 SQ.FT
RESTROOM:	1056 SQ.FT
GYMNASIUM:	28244 SQ.FT
TOTAL:	139844 SQ.FT

MODERNIZED BUILDING CODE ANALYSIS

GROSS SQUARE FEET:	7,056 SF
BUILDING TYPE:	TYPE I, F.R., NOT SPRINKLERED
ALLOWABLE FLOOR AREA	UNLIMITED
OCCUPANCY:	E, B
NUMBER OF STORIES:	1
HEIGHT:	16' - 2 1/2"

THERE IS NO EXISTING OR PROPOSED AUTOMATIC SPRINKLER. NONE IS REQUIRED PER CBC.

ACCESSIBILITY STATEMENT BY DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

PATH-OF-TRAVEL (POT) INDICATED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.

AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT (1) HAVE BEEN IDENTIFIED; AND (2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DRAWINGS, DETAILS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NON-COMPLIANT ELEMENT, COMPONENT OR PORTION OF THE POT THAT WILL NOT BE PROTECTED BY THIS PROJECT, BASED ON VALUATION THRESHOLD LIMITATION OR A FINDING OF UNREASONABLE HARDSHIPS, IS SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF ANY POT ITEM WITHIN THE SCOPE IF THE PROJECT PRESENTED AS CODE COMPLIANT IS FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, IT SHALL BE BROUGHT INTO COMPLIANCE WITH CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

SITE LEGEND

- FIRE TRUCK ROUTE
- ACCESSIBLE PATH OF TRAVEL
- APPROVED DSA ACCESSIBLE ENTRANCES
- M — EXISTING MEN'S STUDENT RESTROOMS TO REMAIN
- W — EXISTING WOMEN'S STUDENT RESTROOMS TO REMAIN
- U — EXISTING UNISEX STUDENT RESTROOMS TO REMAIN
- M — EXISTING MEN'S STAFF RESTROOMS TO REMAIN
- W — EXISTING WOMEN'S STAFF RESTROOMS TO REMAIN
- U — NEW UNISEX STUDENT RESTROOMS
- E — EXISTING HIGH-LOW WATER FOUNTAINS
- N — NEW HIGH-LOW WATER FOUNTAINS

SITE PLAN 1

1" = 40'-0" 1 / A201

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Mt. Pleasant High School

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structural engineer:
IDA Structural Engineers, Inc.
1629 Telegraph Avenue
Suite 300
Oakland CA 94612
United States
510-834-1629 ext. 102 voice
510-836-1629 fax

mechanical, plumbing engineer:
Capital Engineering
11020 Sun Center Drive, Suite 100
Rancho Cordova CA 95670
United States
961.851.3500 voice

electrical engineer:
The Engineering Enterprise
1305 Marina Village Parkway
Alameda CA 94501
United States
510.263.1531 voice

civil engineer:
BFK Engineers-Redwood City
255 Shoreline Drive, Suite 200
Redwood City CA 94065
United States
650.482.6335 voice
650.619.6031 fax

landscape architect:
Carducci Associates
555 Beach Street
San Francisco CA 94133
United States
415.447.5214 voice

construction manager:
Gilbane
1798 Technology Drive
Suite 120
San Jose CA 95110
408-660-4400 voice

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LICENSED ARCHITECT ROBERT MARK RAHN 10-31-2017 STATE OF CALIFORNIA

Number	Revision Description	Date

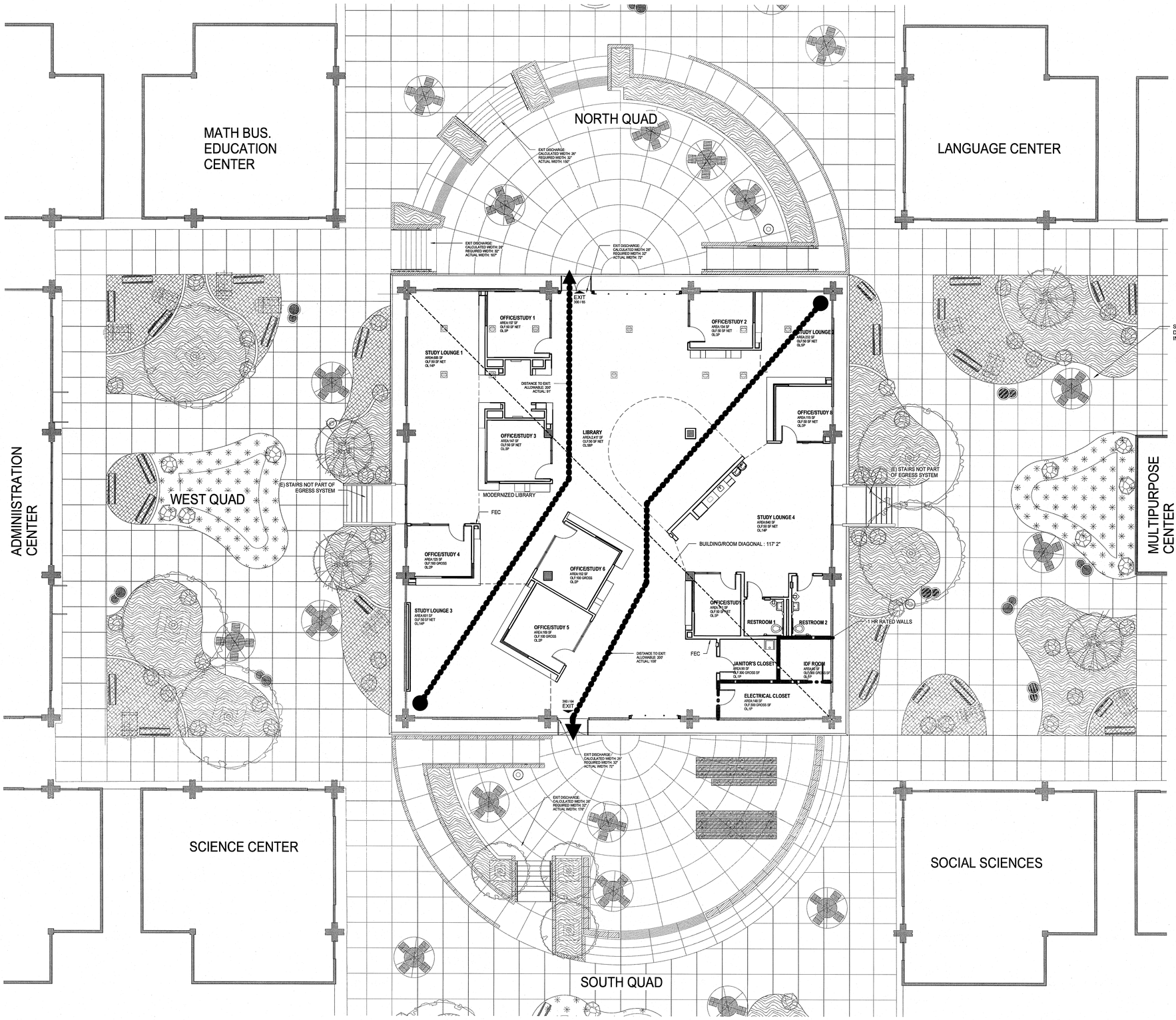
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Site Plan Access

G110

PERMIT BACKCHECK



LEVEL 1 - CODE PLAN - 1/8" 1

1/8" = 1'-0" 1 / A201

General Notes:

1. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
3. THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JUSRDICTION.
4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JUISDICTION IN THE FIELD.

Egress Path of Travel — Distance to Exit: 100' — Common Path of Travel Distance: 50' CPT

Egress Point — EXIT — Maximum # of Occupants (by width): 240/100 — Required # of Occupants

Stair Egress — Stair #1 | 4'-0" — Maximum # of Occupants (by width): 78/14 — Required # of Occupants

Occupancy Tag — Room name — Occupancy Group: A3 — Area: OLF/S — Occupant Load: OL/SF — Area (Ht)/150 SF

Fire Extinguisher Radius — 75' Typ

1-Hour: Fire Rated Assembly

Fire Exstingusher Cabinet F.E.C

OCCUPANT LOADS:

LIBRARY - READING ROOM : 50 NET SQFT PER OCC.
BUSINESS AREAS: 100 GROSS SQFT PER OCC.
LIBRARY - STACK AREA: 100 GROSS SQFT PER OCC.

AREA: 7056 SQFT

OCCUPANT LOAD: 129 OCC.

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phoenix • san francisco • tampa

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Mt. Pleasant High School

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owner:
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Facilities & Planning Division
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415.503.1411
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structural engineer:
IDA Structural Engineers, Inc.
1629 Telegraph Avenue
Suite 300
Oakland CA 94612
United States
510-834-1629 ext. 102 voice
510-836-1629 fax

mechanical, plumbing engineer:
Capital Engineering
11020 Sun Center Drive, Suite 100
Rancho Cordova CA 95670
United States
961.851.3500 voice

elecdrical engineer:
The Engineering Enterprise
1305 Marina Village Parkway
Alameda CA 94501
United States
510.263.1531 voice

civil engineer:
BFK Engineers-Redwood City
255 Shoreline Drive, Suite 200
Redwood City CA 94065
United States
650.482.6335 voice
650.619.6031 fax

landscape architect:
Carducci Associates
555 Beach Street
San Francisco CA 94133
United States
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construction manager:
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1798 Technology Drive
Suite 120
San Jose CA 95110
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LICENSED ARCHITECT ROBERT MARK BANNISTER 2/23/2017 STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: DATE FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Code Plan - Level 1

G120

PERMIT BACKCHECK

MOUNT PLEASANT HIGH SCHOOL

NEW STUDENT CENTER & QUAD MODERNIZATION

SAN JOSE, SANTA CLARA COUNTY, CALIFORNIA

I. GENERAL NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THESE NOTES.

2. THE CONTRACTOR SHALL GIVE THE OWNER TWO (2) WORKING DAYS ADVANCE NOTICE FOR INSPECTION SERVICES.

3. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.

4. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE CIVIL DESIGN ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS.

5. STANDARD CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO BETWEEN 7:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY. UNLESS APPROVED BY THE OWNER IN WRITING, NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS UNLESS APPROVED BY THE OWNER IN WRITING. UNLESS APPROVED BY THE OWNER CONTRACTOR TO VERIFY THE ABOVE TIMES AND DAYS WITH THE MOUNT PLEASANT HIGH SCHOOL.

6. PERMANENT SURVEY MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE ENGINEER.

7. THE CONTRACTOR SHALL RESTORE TO THEIR PREVIOUS CONDITION OR REPLACE WALLS, FENCES, SERVICES, UTILITIES, AND PAVEMENT & CURB MARKINGS IMPROVEMENTS OR FEATURES OF WHATEVER NATURE WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE DISTRICT BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY, TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS PER THE WORK AREA TRAFFIC CONTROL HANDBOOK, PUBLISHED BY BUILDING NEWS INC., (213) 870-9871. THE CONTRACTOR SHALL LEAVE A 24-HOUR EMERGENCY TELEPHONE NUMBER WITH POLICE, FIRE AND PUBLIC WORKS DEPARTMENTS, AND KEEP THEM INFORMED DAILY OF DETOURS.

9. EXISTING PUBLIC AND PRIVATE PEDESTRIAN WALKWAYS, BIKEPATHS & HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER AND CITY ENGINEER.

10. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.

11. PRIOR TO FINAL PREPARATION OF THE SUBGRADE AND PLACEMENT OF BASE MATERIALS FOR PAVED AREAS, UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT. STUB-OUTS SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DISTURB THE PAVEMENT, CURB AND GUTTER AND WALKS WHEN SERVICE CONNECTIONS ARE MADE.

12. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT EXISTING IMPROVEMENTS WILL BE FULLY PROTECTED FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEATHING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL COMPLETE NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE SHEATHING, SHORING AND BRACING IN CONFORMANCE WITH THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS.

13. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE. THE SITE SHALL BE SPRINKLED AS NECESSARY TO PREVENT DUST NUISANCE.

14. DURING CONSTRUCTION, THE CONSTRUCTION AREA AND CITY STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ACCUMULATION OF MUD AND DEBRIS RESULTING FROM CONSTRUCTION. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN AN APPROVAL FOR THE HAULING ROUTE FROM THE CITY ENGINEERING DIVISION. THE HAULING ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND SUBCONTRACTORS. DIRT HAULING PERMIT REQUIRED.

15. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION AND REQUEST CLARIFICATION.

16. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, NOTIFY OWNER AND REQUEST CLARIFICATION.

17. UPON SATISFACTORY COMPLETION OF THE WORK, THE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND OWNER.

18. ARTICLE 87 OF THE UFC SHALL BE FOLLOWED FOR AREAS UNDER CONSTRUCTION. CONTACT THE CITY FIRE DEPARTMENT FOR SPECIFIC REQUIREMENTS FOR BUILDINGS UNDER CONSTRUCTION.

19. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF PG&E, AT&T, CABLE TV FACILITIES, COUNTY HEALTH DEPARTMENT AND MOUNT PLEASANT HIGH SCHOOL.

20. THE CONTRACTOR SHALL BE AWARE THAT DEWATERING ACTIVITIES SHALL COMPLY WITH THE CONDITIONS OF THE BAY AREA REGIONAL WATER QUALITY CONTROL BOARD GENERAL PERMIT FOR CONSTRUCTION SITES.

21. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF WORK TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE UTILITIES SHOWN ON THE PLANS ARE BASED UPON RECORD INFORMATION. HOWEVER, THE CIVIL DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY OR ACTUAL LOCATIONS OF THE UTILITIES.

22. THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATIONS AND TRENCHES.

23. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE EXISTING AND/OR NEW UTILITY BOXES, MANHOLES, CURB INLETS, CATCH BASINS, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS, UNLESS NOTED OTHERWISE.

24. THE CONTRACTOR SHALL MEET AND FOLLOW NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.

25. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING DEMOLITION WORK, WORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.

26. THE CONTRACTOR SHALL POST ON SITE EMERGENCY TELEPHONE NUMBERS FOR CITY ENGINEER, AMBULANCE, POLICE, FIRE DEPARTMENTS, MOUNT PLEASANT HIGH SCHOOL AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.

II. LAYOUT NOTES

1. CURB RETURN RADII AND CURB DATA ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

2. DRAINAGE AND SANITARY SEWER STRUCTURES ARE REFERENCED TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

III. EXISTING CONDITIONS

1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON THE "MOUNT PLEASANT HIGH SCHOOL, EAST SIDE UNION HIGH SCHOOL DISTRICT TOPOGRAPHIC SURVEY" PREPARED BY UNDERWOOD AND ROSENBLUM INC., DATED 6/23/16. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.

2. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM SURVEY DATA, RECORD DATA KNOWN TO THE DESIGN ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE CIVIL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.

3. ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AFFECTING SAID LINES.

IV. GRADING

1. GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT "GEOTECHNICAL AND GEOLOGIC HAZARDS INVESTIGATION", PREPARED BY CLEARY CONSULTANTS, INC. (2010).

2. CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT IN LANDSCAPE AREAS AND TWO-HUNDRETHS OF A FOOT IN HARDSCAPE AREAS. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.

3. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. REFER TO PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT.

4. THE GEOTECHNICAL ENGINEER WILL BE PRESENT AT THE SITE DURING FOOTING EXCAVATION AND OTHER GRADING OPERATIONS, AND SHALL PERFORM TESTING DEEMED NECESSARY. THE GEOTECHNICAL ENGINEER SHALL OBSERVE GRADING OPERATIONS AND IDENTIFY THOSE CONDITIONS WITH RECOMMENDED CORRECTIVE MEASURES TO THE CONTRACTOR AND THE CONSTRUCTION MANAGER.

5. UPON COMPLETION OF FOOTING EXCAVATION AND OTHER GRADING OPERATIONS, THE GEOTECHNICAL ENGINEER WILL PROVIDE A WRITTEN REPORT DOCUMENTING THE RESULTS OF THE GEOTECHNICAL ENGINEER'S SITE OBSERVATION AND TESTING ACTIVITIES PERFORMED DURING SITE GRADING OPERATIONS.

6. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES FOR BUILDING PURPOSES PRIOR TO BIDDING. FINAL GRADING QUANTITIES ARE DEPENDENT ON FIELD CONDITIONS, CONSTRUCTION TECHNIQUES AND SEQUENCES, FINAL COMPACTION OBTAINED, TRENCHING AND BACKFILL METHODS AND NUMEROUS OTHER FACTORS OUT OF THE CONTROL THE DESIGNER. ANY IMPORT OR EXPORT REQUIRED SHALL BE REFLECTED IN THE BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR IMPORT OR EXPORT REQUIRED UNLESS NECESSITATED BY UNFORESEEN FIELD CONDITIONS (E.G. UNSUITABLE EXISTING SOIL NOT DETECTED IN THE GEOTECHNICAL INVESTIGATION REPORT).

X. STATEMENT OF RESPONSIBILITY

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

2. CONTRACTOR SHALL COMPLY WITH STATE, COUNTY AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.

IX. RECORD DRAWINGS

1. CONTRACTOR SHALL KEEP ACCURATE AS-BUILT DRAWINGS WHICH SHOW THE FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS ENCOUNTERED. RECORD DRAWINGS SHALL BE "REDLINED" ON A SET OF PRINTS. THE REDLINED PRINTS SHALL BE DELIVERED TO THE OWNER AFTER THE COMPLETION OF CONSTRUCTION.

XI. UNAUTHORIZED CHANGES AND USES

1. THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

V. UTILITIES

1. BEFORE DISCONNECTING UTILITY SERVICE TO ANY ESTABLISHMENT, CONTRACTOR SHALL GIVE ADVANCE NOTICE TO ESTABLISHMENT BEFORE THEIR UTILITY IS SHUT DOWN, MAKE ARRANGEMENTS WITH THOSE ESTABLISHMENTS FOR A SCHEDULED SHUT DOWN AND COORDINATE DATE OF SHUT DOWN, DURATION, INCONVENIENCE, DELAYS, ETC. WITH A REPRESENTATIVE OF THE CITY AND/OR RESPECTIVE UTILITY AGENCY.

VI. STORM DRAIN NOTES

1. THE ON-SITE PRIVATE STORM DRAIN SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THESE PLANS AND CITY DETAILS AND SPECIFICATIONS.

VII. WATER NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING SERVICES FOR THOSE FACILITIES TO BE INSTALLED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK HAS BEEN OFFICIALLY ACCEPTED BY THE ENGINEER. THE MARKING, LABELING AND TIMING OF SUCH LOCATIONS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF UNDERGROUND SERVICE ALERT.

2. PRIOR TO MAKING FINAL CONNECTIONS TO THE EXISTING WATER SYSTEM, NEWLY INSTALLED WATER PIPELINES, VALVES, AND FITTINGS SHALL BE FLUSHED, STERILIZED AND TESTED BY THE CONTRACTOR, AND SHALL PASS BACTERIA AND OTHER WATER QUALITY REQUIREMENTS BEFORE PUT INTO SERVICE. (REFER TO SANTA CLARA VALLEY WATER DISTRICT STANDARD SPECIFICATIONS FOR TESTING AND STERILIZATION REQUIREMENTS.) CONTRACTOR SHALL SUPPLY MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO DISINFECT THE PIPELINES AND APPURTENANCES.

3. ON-SITE LANDSCAPE IRRIGATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS & SHALL BE CONNECTED TO THE EXISTING AND/OR NEW RECLAIMED WATER SYSTEM.

VIII. SANITARY SEWER NOTES

1. THE ON-SITE PRIVATE SANITARY SEWER SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THESE PLANS AND CITY DETAILS AND SPECIFICATIONS.

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
@	AT	PM	PARKING METER
AB	AGGREGATE BASE	(P)	PROPOSED
AC	ASPHALT CONCRETE	PVC	POLYVINYL CHLORIDE
AD	AREA DRAIN	R	RADIUS
BFPD	BACK FLOW PREVENTION DEVICE	R.C.	RELATIVE COMPACTION
BLDG	BUILDING	RCP	REINFORCED CONCRETE PIPE
BS	BOTTOM OF STAIR	RDW	REDWOOD TREE
BW	BACK OF WALK	RIM	RIM ELEVATION
CB	CATCH BASIN	RT	RIGHT
C&G	CURB AND GUTTER	R/W	RIGHT OF WAY
CONC	CONCRETE	S	SOUTH
℄	CENTERLINE	SAP	SEE ARCHITECTURAL PLANS
COMM	COMMUNICATION	SCH	SCHEDULE
C.Y.	CUBIC YARDS	SDCB	STORM DRAIN CATCH BASIN
DG	DECOMPOSED GRANITE	SD	STORM DRAIN
DI	DRAINAGE INLET	SDMH	STORM DRAIN MANHOLE
DW	DOMESTIC WATER	SEP	SEE ELECTRICAL PLANS
(E)	EXISTING	SF	SQUARE FEET
E	EAST	SL	STREETLIGHT
ELEC	ELECTRIC	SLP	SEE LANDSCAPE PLANS
ELB	ELECTRIC BOX	SMP	SEE MECHANICAL PLANS
ELL	ELBOW	SPP	SEE PLUMBING PLANS
FC	FACE OF CURB	SS	SANITARY SEWER
FDC	FIRE DEPARTMENT CONNECTION	SSCO	SANITARY SEWER CLEANOUT
FF	FINISHED FLOOR	SSMH	SANITARY SEWER MANHOLE
FG	FINISHED GRADE	SSP	SEE STRUCTURAL PLAN
FH	FIRE HYDRANT	STA	STATION
FL	FLOW LINE	STD	STANDARD
FS	FINISHED SURFACE	S/W	SIDEWALK
FW	FIRE WATER	TB	TOP OF BERM
G	GAS	TC	TOP OF CURB
GB	GRADE BREAK	TG	TOP OF GRATE
GV	GATE VALVE	TH	THRESHOLD
HC	HANDICAP/ HANDICAP RAMP	TRANS	TRANSFORMER
HP	HIGH POINT	TS	TOP OF STAIR
INV	INVERT	TYP	TYPICAL
IRR	IRRIGATION	UGE	UNDERGROUND ELECTRIC
JT	JOINT TRENCH	VC	VERTICAL CURB
JP	JOINT POLE	VERT	VERTICAL
L	LENGTH	VG	VALLEY GUTTER
LD	LANDSCAPE DRAIN	W	WEST
LP	LOW POINT	W, WL	WATERLINE
LSSD	LARKSPUR STANDARD DETAIL	W/	WITH
LT	LEFT	WM	WATER METER
MH	MANHOLE	WMB	WATER METER BOX
N	NORTH	WV	WATER VALVE
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
OAK	OAK TREE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OH	OVERHEAD		
PA	PLANTED AREA		
PB	TELEPHONE		
℗	PROPERTY LINE		
PLT	PLANTER		
PRC	POINT OF REVERSE CURVE		

SHEET INDEX

SHT NO	DESCRIPTION
C1.00	TITLE SHEET
C2.00	EXISTING CONDITIONS
C3.00	DEMOLITION PLAN
C4.00	GRADING, DRAINAGE, AND UTILITY PLAN
C4.01	CONSTRUCTION DETAILS
C5.00	STORMWATER MANAGEMENT PLAN

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DATE SIGNED 2/14/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT

APPLICATION # : 01-116168

FILE # : 43-H10

AC: SSS: FLS: DATE: FEB 23 2017

IDENTIFICATION STAMP

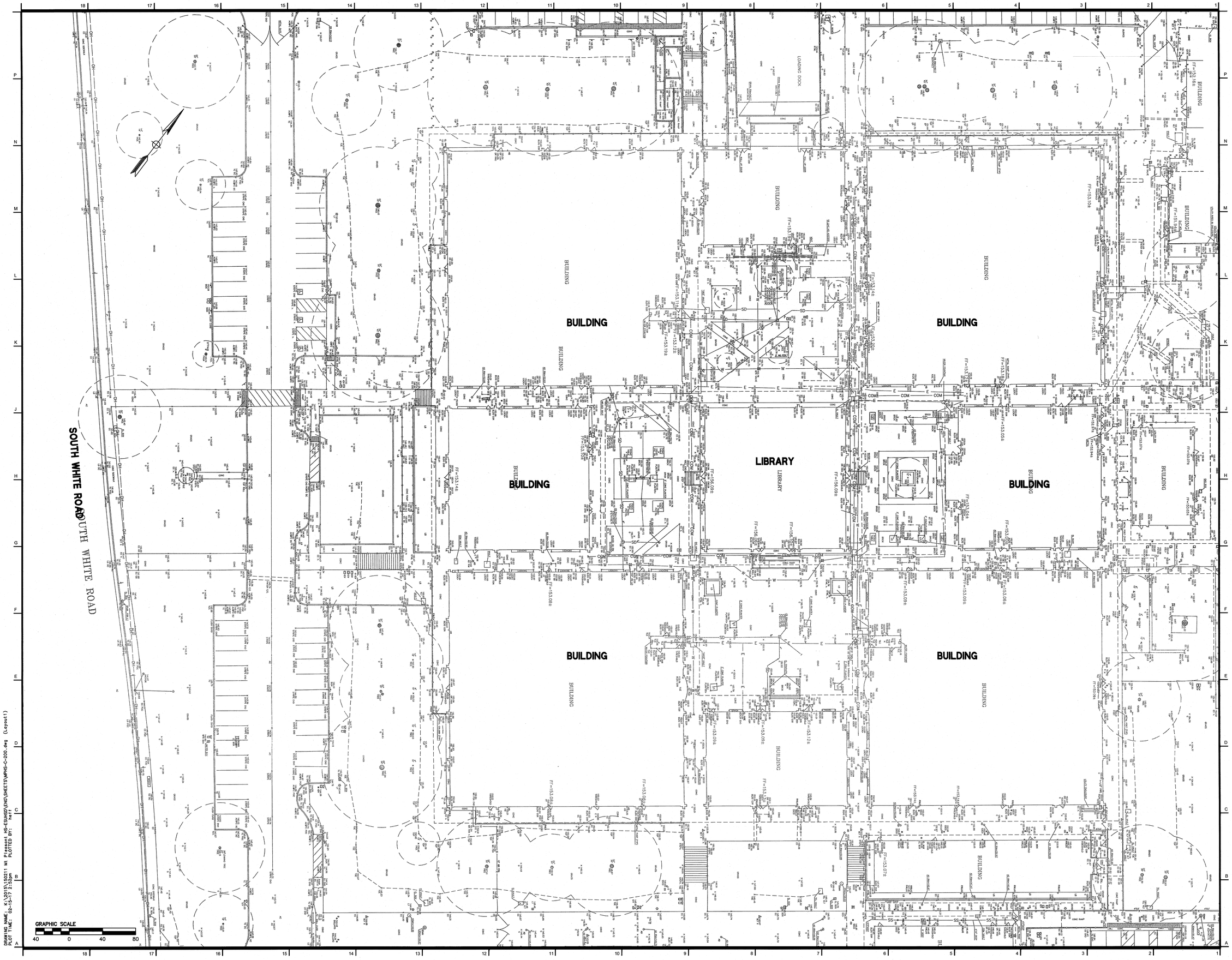
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Date: February 15, 2017
Sheet:

TITLE SHEET

C1.00

PERMIT BACKCHECK

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REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. HEFFERNAN
No. 67089
Exp. 9/30/18
CIVIL
STATE OF CALIFORNIA

DATE SIGNED 2/14/17

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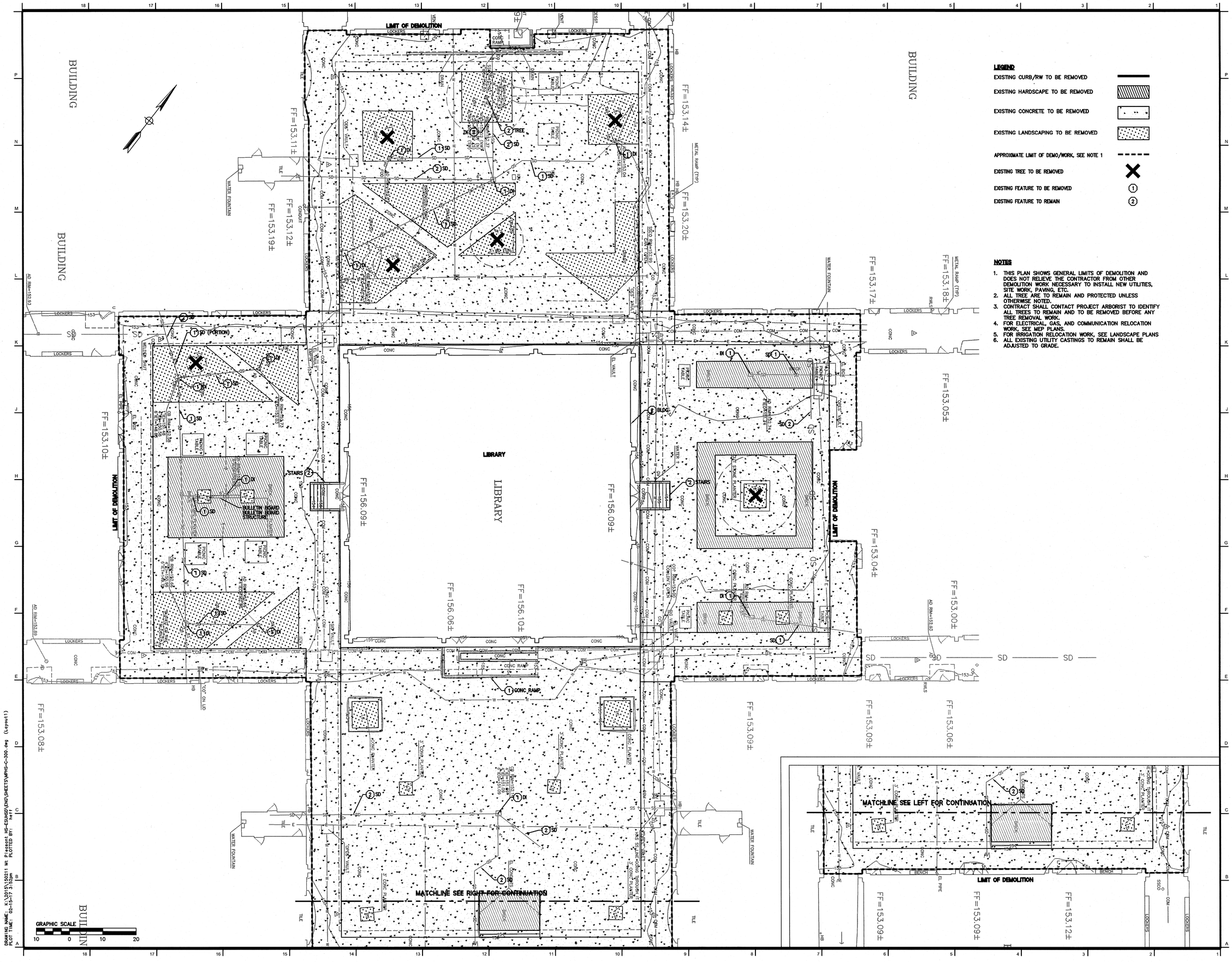
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APPLICATION # : 01-116168
FILE # : 43-H10
AC:
SSS:
FLS:
DATE: FEB 23 2017
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Project No 1115-0130
Date: February 15, 2017
Sheet:

EXISTING CONDITIONS

C2.00

PERMIT BACKCHECK



LEGEND

- EXISTING CURB/RW TO BE REMOVED
- EXISTING HARDSCAPE TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING LANDSCAPING TO BE REMOVED
- APPROXIMATE LIMIT OF DEMO/WORK, SEE NOTE 1
- EXISTING TREE TO BE REMOVED
- EXISTING FEATURE TO BE REMOVED (1)
- EXISTING FEATURE TO REMAIN (2)

NOTES

1. THIS PLAN SHOWS GENERAL LIMITS OF DEMOLITION AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK NECESSARY TO INSTALL NEW UTILITIES, SITE WORK, PAVING, ETC.
2. ALL TREE ARE TO REMAIN AND PROTECTED UNLESS OTHERWISE NOTED.
3. CONTRACT SHALL CONTACT PROJECT ARBORIST TO IDENTIFY ALL TREES TO REMAIN AND TO BE REMOVED BEFORE ANY TREE REMOVAL WORK.
4. FOR ELECTRICAL, GAS, AND COMMUNICATION RELOCATION WORK, SEE MEP PLANS.
5. FOR IRRIGATION RELOCATION WORK, SEE LANDSCAPE PLANS
6. ALL EXISTING UTILITY CASTINGS TO REMAIN SHALL BE ADJUSTED TO GRADE.

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FILE # : 43-110
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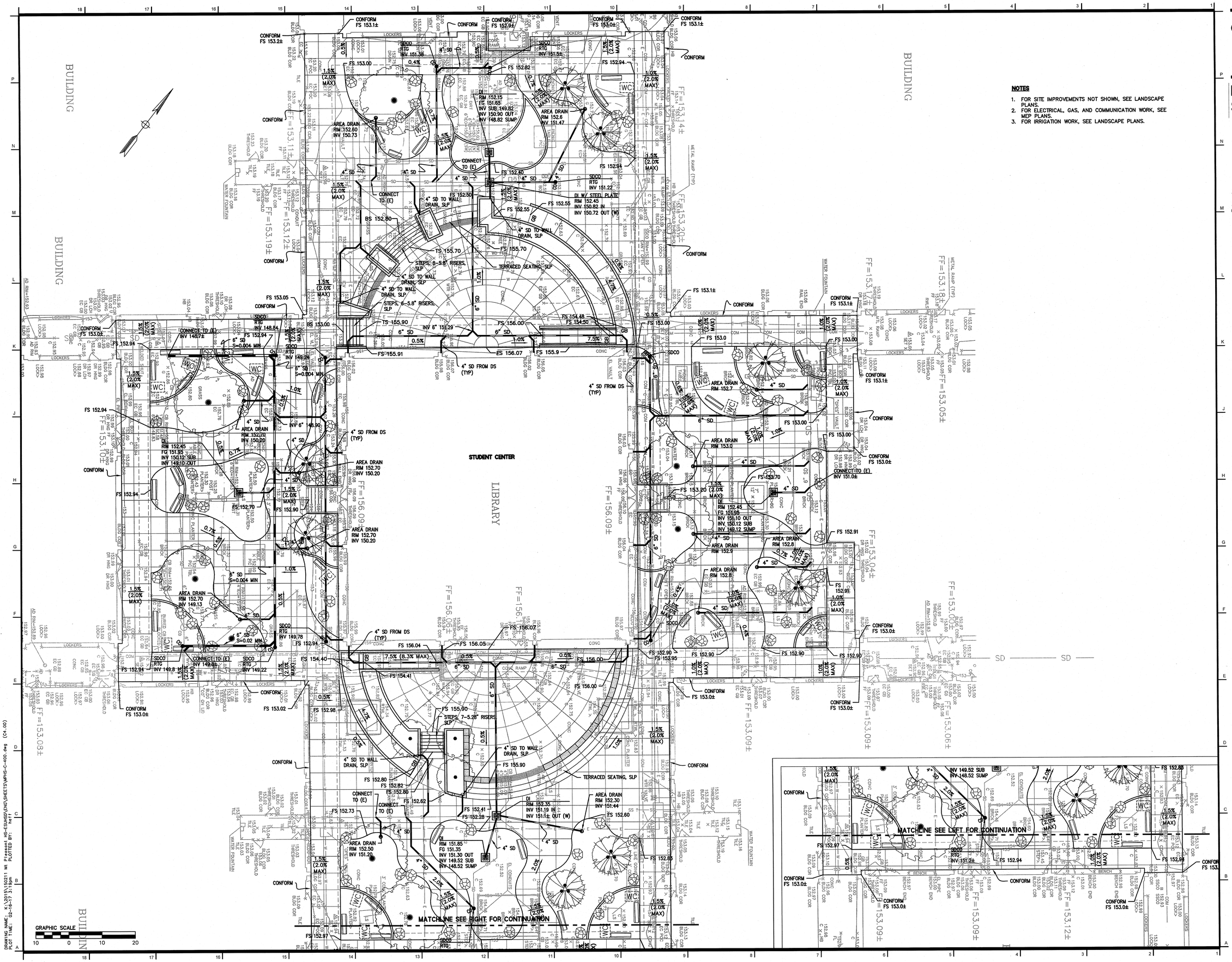
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DEMOLITION PLAN

C3.00

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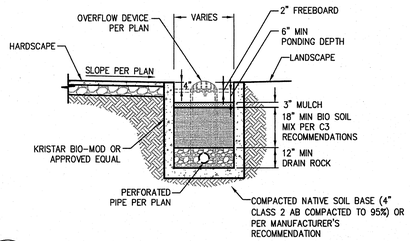
Project No 1115-0130
Date: February 15, 2017
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GRADING, DRAINAGE, AND UTILITY PLAN

C4.00

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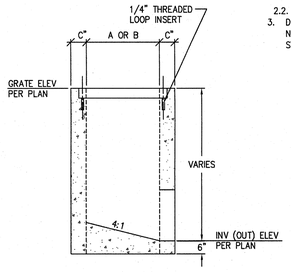
1 — **TYPICAL BIO-MODULAR STRUCTURE SECTION**

N.T.S.

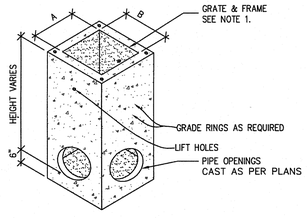
TYPE	A	B	C	MODEL
1	12"	12"	5"	CP1212
2	18"	18"	5"	CP1818
3	24"	24"	5"	CP2424

NOTES

1. REFER TO CENTRAL PRE-CAST PRODUCTS OR APPROVED EQUAL. GRATES SHALL BE BICYCLE/PEDESTRIAN PROOF.
2. DROP INLETS SHALL BE:
   2.1. HAVE A STANDARD HEAVY DUTY ADA COMPLIANT FRAME AND GRATE AND,
   2.2. SHALL BE PROVIDED WITH A LOCKING DEVICE.
3. DROP INLETS SHALL BE STENCILED "NO DUMPING, FLOWS TO NEIGHBORHOOD CREEK". CONTACT CITY OF SAN JOSE FOR STENCIL INFORMATION (408) 945-3000.



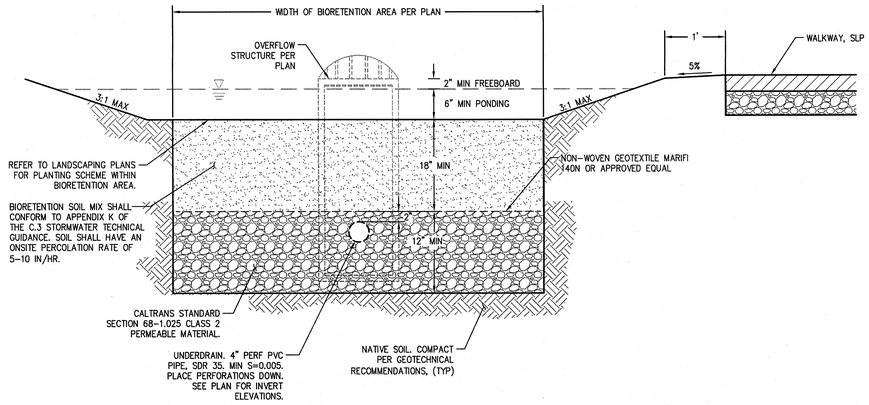
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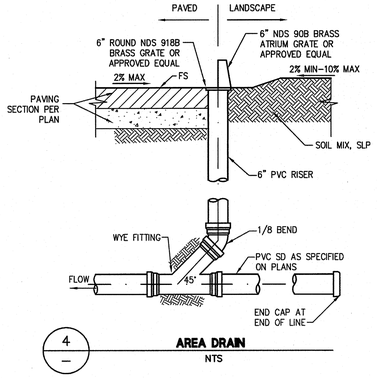
2 — **STORM DRAIN CATCH BASIN**

N.T.S.



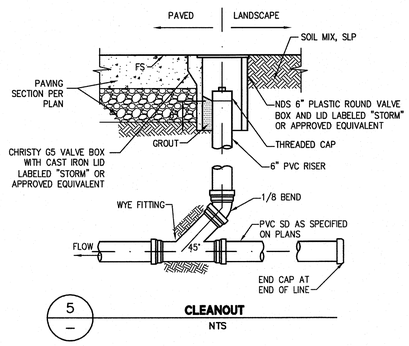
3 — **BIORETENTION AREA IN LANDSCAPE**

N.T.S.



4 — **AREA DRAIN**

NTS



5 — **CLEANOUT**

NTS

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Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

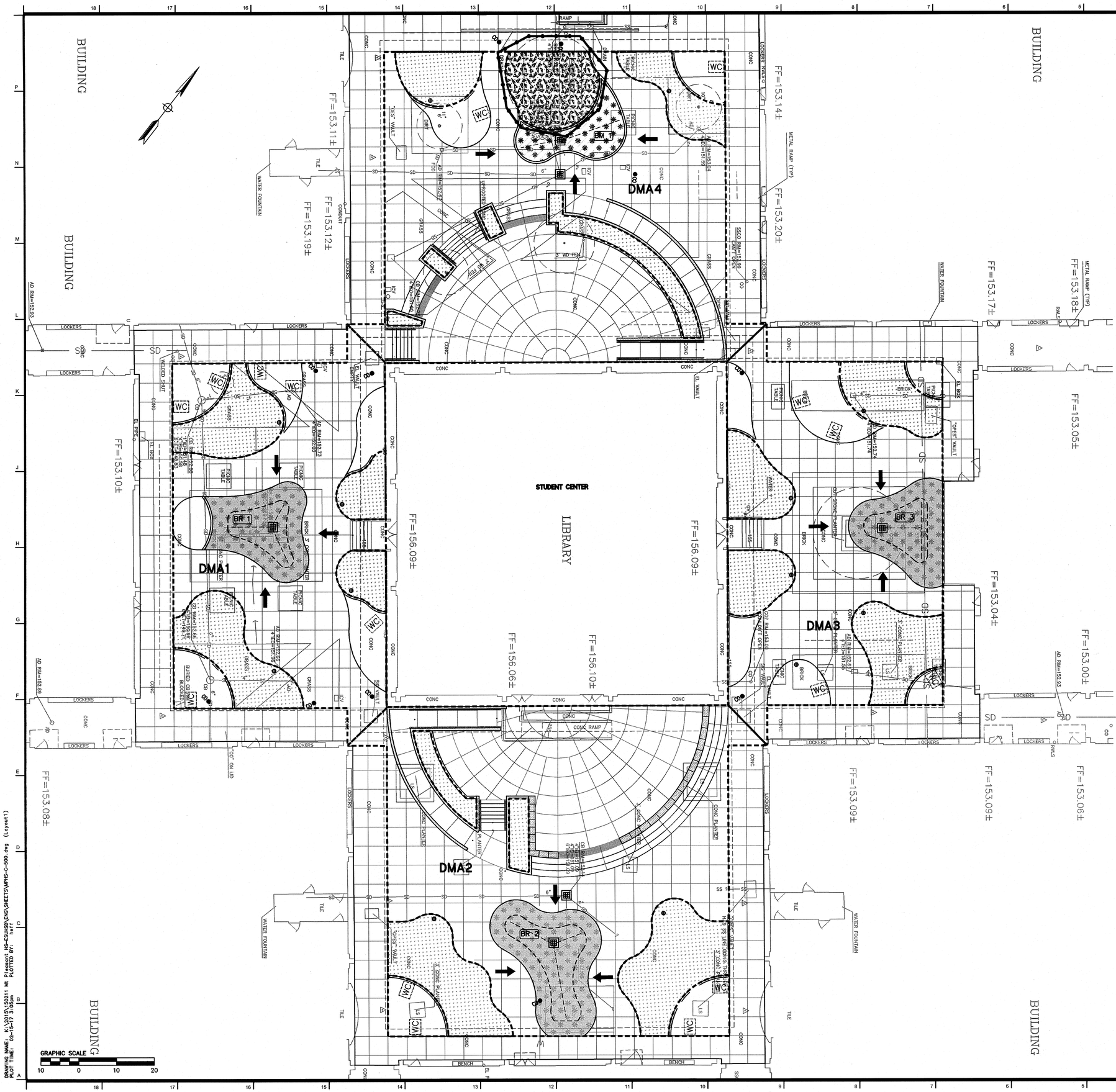
Project No 1115.0130
Date: February 15, 2017
Sheet:

CONSTRUCTION DETAILS

C4.01

PERMIT BACKCHECK

DRAWING NAME: K:\2015\152011 MT PLEASANT HS-ESH&SD\ENG\SHEETS\MPHS-C-400.dwg (C4.01)
PLOT TIME: 02-16-17 3:14pm
PLOTTED BY: mehf



STORM WATER CONTROL NOTES

1. REFER TO C4.00 FOR ADDITIONAL INFORMATION REGARDING GRADING, DRAINAGE, AND UTILITY ROUTING.
2. REFER TO C4.01 FOR BIO-RETENTION DETAILS SHOWN ON THIS SHEET

STORM WATER CONTROL LEGEND

WATERSHED BOUNDARY	
BMP STRUCTURE BOUNDARY	
4" SUBDRAIN (PERFORATED PVC) WITH CLEANOUT	
PROPOSED FLOW ARROW	
BIO-RETENTION AREA	BR #
BIO-MODULAR AREA	BM #
BIO-RETENTION LOCATION	
BIO-MOD LOCATION	
SELF-TREATING AREA	

ABBREVIATIONS

SYMBOL	DESCRIPTION
BIO-MOD	BIO-MODULAR STRUCTURE
BM	BIO-MODULAR AREA
BMP	BEST MANAGEMENT PRACTICE
BR	BIO-RETENTION AREA
DMA	DRAINAGE MANAGEMENT AREA
ST	SELF-TREATING AREA

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Mt. Pleasant High School

1750 S. White Road
San Jose, CA 95127

owner:
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Facilities & Planning Division
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electrical engineer:
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construction manager:
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408-660-4400 voice

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REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. HEFFERNAN
No. 67089
Exp. 9/30/18
CIVIL
STATE OF CALIFORNIA

DATE SIGNED 2/14/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE FEB 23 2017
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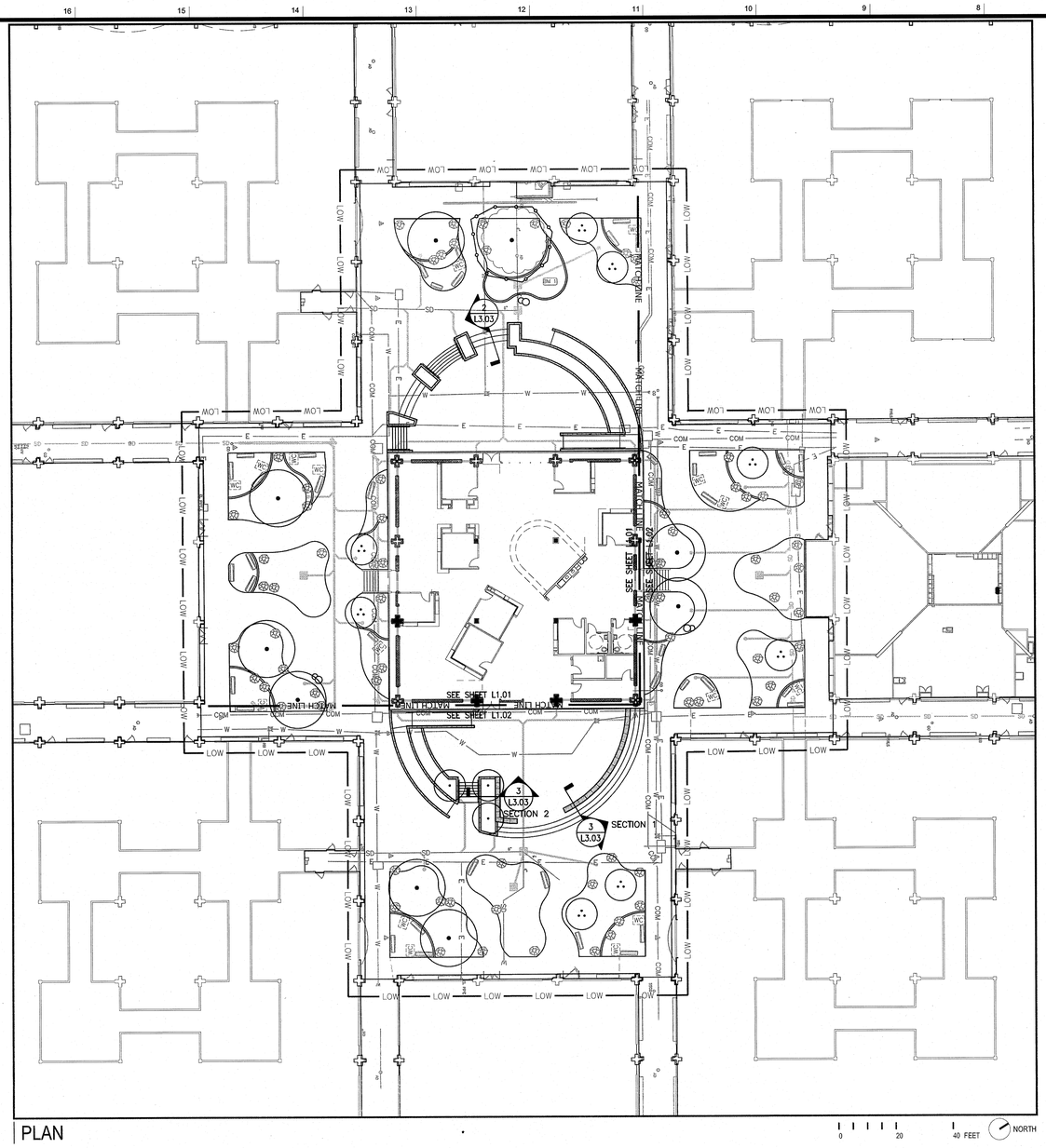
Project No	1115-0130
Date:	February-15, 2017
Sheet:	

STORMWATER CONTROL PLAN

C5.00

PERMIT BACKCHECK

DRAWING NAME: K:\2015\150211 Mt Pleasant HS-ESUHSD\ENG\SHEETS\MPHS-C-500.dwg (Layout)
PLOT TIME: 02-15-17 3:05pm
PLOTTED BY: heft



PLAN

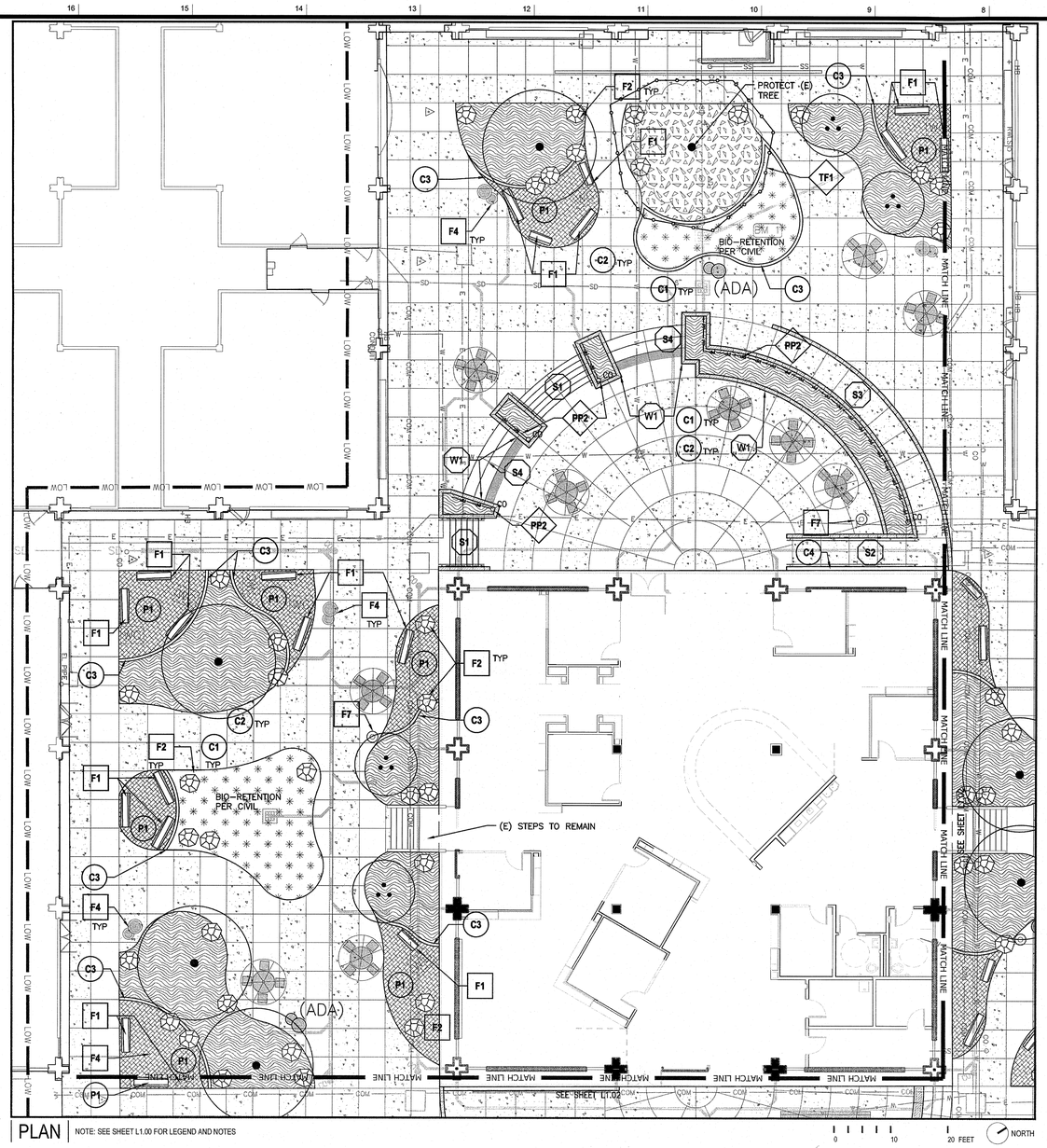
0 20 40 FEET NORTH

LEGEND

SYMBOL	DESCRIPTION
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY AND UTILITIES, SEE CIVIL DWGS

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PLAN | NOTE: SEE SHEET L1.00 FOR LEGEND AND NOTES

0 10 20 FEET NORTH

LEGEND

SYMBOL	DESCRIPTION
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY AND UTILITIES, SEE CIVIL DWGS

MATERIALS LEGEND

	CONCRETE PAVING, REINFORCED 3000 PSI 5" OVER 4"AB (1 L3.01)
C1	DAVIS COLOR SAN DIEGO BUFF OR EQ WITH MEDIUM BROOM FINISH
C2	DAVIS COLOR SAN DIEGO BUFF OR EQ WITH ALTERNATE MEDIUM BROOM FINISH (7 L3.01)
	JOINTS TYP — SEE L2.00 — LAYOUT PLAN FOR LOCATIONS (2 L3.01)
C3	CONC MOW BAND AT PLANTING AREA SEE CIVIL DWG FOR SIDEWALKS, CURB & GUTTER (4 L3.01)
C4	CONCRETE CURB AT TERRACE, NATURAL COLOR. (5 L3.01)
P1	DECOMPOSED GRANITE WITH STABILIZER, GOLD COLOR ALSO SEE PLANTING PLAN L7.01: OMIT STABILIZER IN SUCCULENT PLANTING AREA (6 L3.01)
S1	CONCRETE STAIR WITH RAILING, NATURAL COLOR. SEE CIVIL DWGS FOR GRADING. WALLS & REINFORCEMENT PER STRUC (2 L3.02) (3 L3.02) (4 L3.02)
S2	CONCRETE RAMP WITH HANDRAIL, NATURAL COLOR, MEDIUM BROOM FINISH SEE CIVIL DWGS FOR GRADING. ALL ADJ WALLS PER STRUC (1 L3.02) (3 L3.02) (4 L3.02)
S3	CONCRETE SLOPED WALK, NATURAL COLOR CONCRETE, MEDIUM BROOM FINISH. SEE CIVIL DWGS FOR GRADING. WALLS & REINFOCEMENT PER STRUC. (7 L3.01)
S4	CONCRETE TERRACED PLINTH (2 L3.03)
F1	(40) BASALT COLUMN, REFER TO DETAIL FOR SIZING. JOHNSON STONE OR EQUAL, (707) 800-3797. LOCATION TO BE DETERMINED BY ARCHITECT IN FIELD (9 L3.01)
WC	WHEELCHAIR ACCESSIBLE SEATING OPPORTUNITY. 16 SPACES PROVIDED (OF 150 AVAILABLE) 18" SEATING SPACES.
F2	(75) BOULDER, SONOMA FIELD STONE, VARIES SIZE 24" TO 36"ø. AVAILABLE FROM LYNGSO GARDEN 650-364-1730 OR AMERICAN SOIL PRODUCT 510-292-3000. LOCATION TO BE DETERMINED BY ARCHITECT IN FIELD (8 L3.01)
F3	(18) LANDSCAPE FORMS CAROUSEL TABLES: STEELHEAD PERFORATED TABLE TOPS, BACKLESS PERFORATED-METAL SEATS, SURFACE MOUNTED PER MANUF. COLOR: BRONZE. • (13) STANDARD 4-SEAT TABLES • (5) ADA-ACCESSIBLE 3-SEAT TABLES (5) ADA ACCESSIBLE SEATING OPPORTUNITIES AVAILABLE (OF 72 TOTAL). ALL TABLES WITH: ALTAIR (SOLSTICE LINE) METAL UMBRELLA BY LANDSCAPE FORMS, SURFACE MOUNTED PER MANUF. COLOR: BRONZE. LOCATION TO BE DETERMINED BY ARCHITECT OR DISTRICT IN FIELD.
F4	FORMS+SURFACES BISTRO TABLE, SLATE TEXTURE POWDERCOAT, SURFACE MOUNTED PER MANUF. FINAL LOCATION TO BE DETERMINED BY ARCHITECT OR DISTRICT IN FIELD. ADA ACCESSIBLE BISTRO TABLE CUSTOM BY FORMS+SURFACES. SEE (3) OF 13 TABLES ARE ADA ACCESSIBLE (4 L3.03)
F5	8' PICNIC TABLE – 'ALAN TABLE' (2100 MM LENGTH) & 'ALAN CF BENCH' (2100 MM LENGTH) BY ID METALCO, INC, RECONSTITUTED GRANITE STONE & POWDER COATED STEEL. STEEL COLOR TO BE BRONZE (RAL 1035). SURFACE MOUNTED.
F6	8' ADA ACCESSIBLE TABLE – 'ALAN TABLE' (2100 MM LENGTH) & 'ALAN CF BENCH' (2100 MM LENGTH & 1500 MM LENGTH) BY ID METALCO, INC, RECONSTITUTED GRANITE STONE & POWDER COATED STEEL. STEEL COLOR TO BE BRONZE (RAL 1035). SURFACE MOUNTED.
F7	LANDSCAPE FORMS CHASE PARK SIDE-OPENING LITTER RECEPTACLE, DUAL USE WITH LOCK, (2) STANDARD 5X7 SIGNS, BRONZE IN COLOR. SURFACE MOUNTED PER MANUF.
TF1	TEMPORARY TREE PROTECTION FENCE – SEE TREE PROTECTION NOTES L7.00 & SPECS (8 L8.00)
PP2	4" DIA. PERFORATED PIPE W/ CLEAN OUT, SLOPED 0.5% MIN. TO SD, SEE CIVIL DRAWINGS FOR CONNECTION (7 L3.02)
	NEW TREES SEE PLANTING PLAN & LEGEND, L7.00 & L7.01
	PLANTING AREA SEE PLANTING PLAN & LEGEND, L7.00 & L7.01 ALSO SEE SOIL PREP PLAN, L6.00
	BIO-FILTRATION AREA SEE PLANTING PLAN & LEGEND, L7.00 & L7.01 ALSO SEE CIVIL DWGS
	BARK MULCH PER SPECS
	EXISTING TREE TO REMAIN AND PROTECT IN-PLACE. SEE PLANTING LEGEND AND PLAN – SHEETS L7.00 & L7.01 FOR MORE INFORMATION
W1	CONCRETE RETAINING WALL. NATURAL COLOR, MEDIUM SANDBLAST ALL EXPOSED SURFACES. HEIGHT PER CIVIL, REINFORCEMENT & FOOTINGS PER STRUC.
	SKATE DETERRENT JOINTS, TYP. (6 L3.02)
W2	LANDSCAPE FEATURE WALL WITH SKATE DETERRENT JOINT, NATURAL COLOR CONCRETE, SANDBLAST FINISH (1 L3.03)
W3	INTEGRATED LANDSCAPE FEATURE WALL & PLINTH WITH SKATE DETERRENT JOINT, NATURAL COLOR CONCRETE, SANDBLAST FINISH (3 L3.03)

NOTES

1. SEE CIVIL DRAWINGS FOR GRADING AND DRAINAGE AT PAVING TYP. AS WELL AS LANDSCAPE AREA GRADING AND DRAINAGE. SEE LANDSCAPE DRAINAGE PLAN FOR SUPPLEMENTAL LANDSCAPE GRADING AND DRAINAGE. COORDINATE WITH CIVIL DRAWINGS TYP.
2. SEE CIVIL DRAWINGS FOR CURBS AND VEHICULAR PAVING.
3. PROTECT EXISTING BUILDING, STRUCTURES, PAVING, WALLS, PLANTING, IRRIGATION TO REMAIN, UNLESS OTHERWISE NOTED.
4. SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING.
5. SEE ARCHITECTURAL DRAWINGS FOR ADA PATH OF TRAVEL AND EMERGENCY VEHICULAR ACCESS ROUTES.
6. SET ALL UTILITY BOXES FLUSH WITH FINISH GRADE, UON ON CIVIL DRAWINGS

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LICENSED LANDSCAPE ARCHITECT 2554 Carducci 8.31.2017 09.12.2016 STATE OF CALIFORNIA

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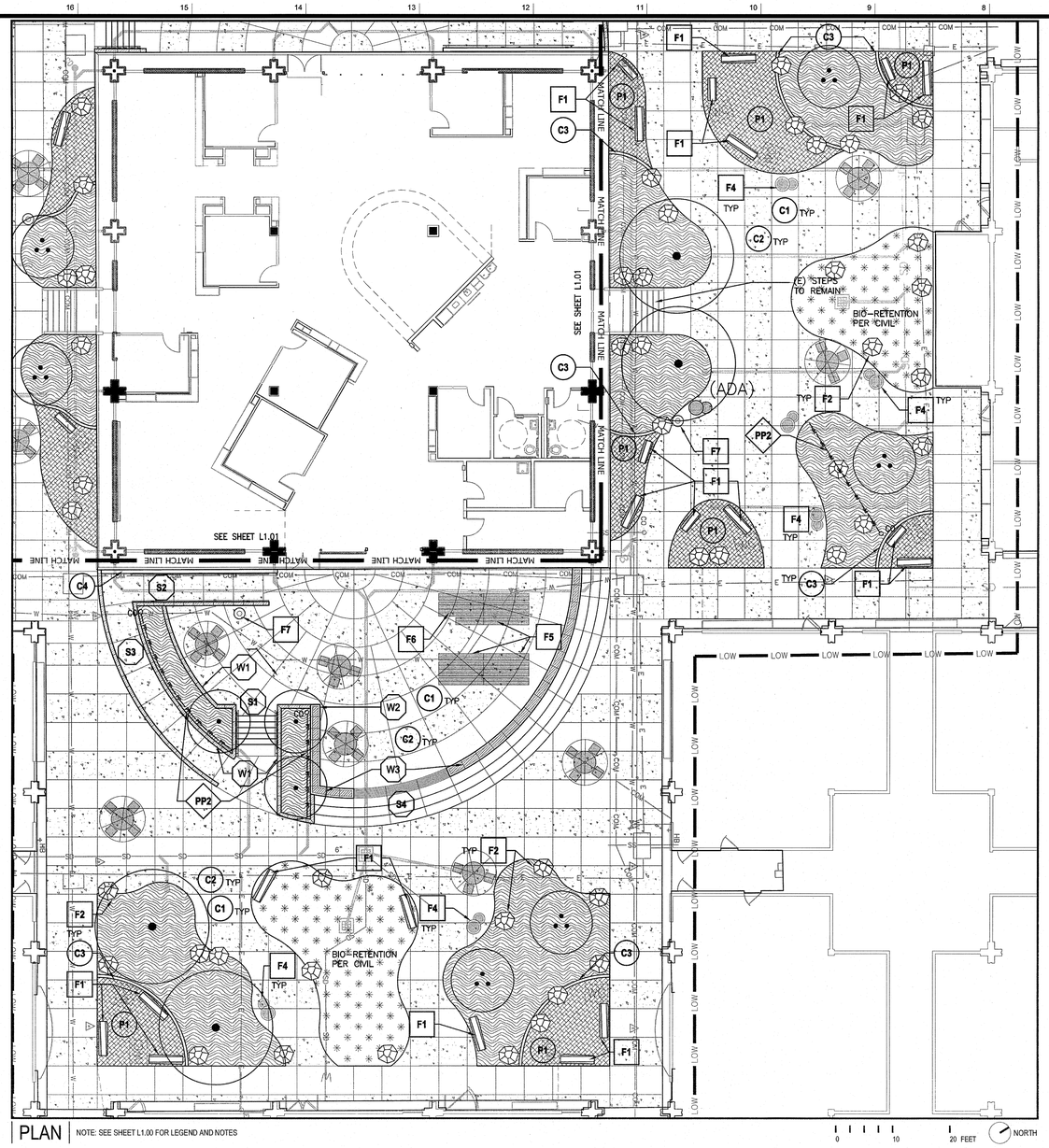
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Sheet:

MATERIALS PLAN - ENLARGEMENT

L1.01

PERMIT BACKCHECK



PLAN | NOTE: SEE SHEET L1.00 FOR LEGEND AND NOTES

0 10 20 FEET NORTH

LEGEND

SYMBOL	DESCRIPTION
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY AND UTILITIES, SEE CIVIL DWGS

MATERIALS LEGEND

- CONCRETE PAVING, REINFORCED 3000 PSI 5" OVER 4"AB — 1 / L3.01
- C1 — DAVIS COLOR SAN DIEGO BUFF OR EQ WITH MEDIUM BROOM FINISH
- C2 — DAVIS COLOR SAN DIEGO BUFF OR EQ WITH ALTERNATE MEDIUM BROOM FINISH — 7 / L3.01
- JOINTS TYP SEE L2.00 – LAYOUT PLAN FOR LOCATIONS — 2 / L3.01
- C3 — CONC MOW BAND AT PLANTING AREA SEE CIVIL DWG FOR SIDEWALKS, CURB & GUTTER — 4 / L3.01
- C4 — CONCRETE CURB AT TERRACE, NATURAL COLOR. — 5 / L3.01
- P1 — DECOMPOSED GRANITE WITH STABILIZER, GOLD COLOR ALSO SEE PLANTING PLAN L7.01: OMIT STABILIZER IN SUCCULENT PLANTING AREA — 6 / L3.01
- S1 — CONCRETE STAIR WITH RAILING, NATURAL COLOR. SEE CIVIL DWGS FOR GRADING. WALLS & REINFORCEMENT PER STRUC — 2 / L3.02, 3 / L3.02, 4 / L3.02
- S2 — CONCRETE RAMP WITH HANDRAIL, NATURAL COLOR, MEDIUM BROOM FINISH SEE CIVIL DWGS FOR GRADING. ALL ADJ WALLS PER STRUC — 1 / L3.02, 3 / L3.02, 4 / L3.02
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- S4 — CONCRETE TERRACED PLINTH — 2 / L3.03
- F1 — (40) BASALT COLUMN, REFER TO DETAIL FOR SIZING. JOHNSON STONE OR EQUAL, (707) 800-3797, LOCATION TO BE DETERMINED BY ARCHITECT IN FIELD — 9 / L3.01
  - WHEELCHAIR ACCESSIBLE SEATING OPPORTUNITY. 16 SPACES PROVIDED (OF 150 AVAILABLE) 18" SEATING SPACES.
- F2 — (75) BOULDER, SONOMA FIELD STONE, VARIES SIZE 24" TO 36"ø. AVAILABLE FROM LYNGSO GARDEN 650-364-1730 OR AMERICAN SOIL PRODUCT 510-292-3000, LOCATION TO BE DETERMINED BY ARCHITECT IN FIELD — 8 / L3.01
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  - (13) STANDARD 4-SEAT TABLES
  - (5) ADA-ACCESSIBLE 3-SEAT TABLES

  (5) ADA ACCESSIBLE SEATING OPPORTUNITIES AVAILABLE (OF 72 TOTAL).

  ALL TABLES WITH: ALTAIR (SOLSTICE LINE) METAL UMBRELLA BY LANDSCAPE FORMS, SURFACE MOUNTED PER MANUF. COLOR: BRONZE.

  LOCATION TO BE DETERMINED BY ARCHITECT OR DISTRICT IN FIELD.
- (ADA) F4 — FORMS+SURFACES BISTRO TABLE, SLATE TEXTURE POWDERCOAT, SURFACE MOUNTED PER MANUF. FINAL LOCATION TO BE DETERMINED BY ARCHITECT OR DISTRICT IN FIELD. ADA ACCESSIBLE BISTRO TABLE CUSTOM BY FORMS+SURFACES. SEE (3) OF 13 TABLES ARE ADA ACCESSIBLE — 4 / L3.03
- F5 — 8' PICNIC TABLE – 'ALAN TABLE' (2100 MM LENGTH) & 'ALAN CF BENCH' (2100 MM LENGTH) BY ID METALCO, INC, RECONSTITUTED GRANITE STONE & POWDER COATED STEEL. STEEL COLOR TO BE BRONZE (RAL 1035). SURFACE MOUNTED.
- F6 — 8' ADA ACCESSIBLE TABLE – 'ALAN TABLE' (2100 MM LENGTH) & 'ALAN CF BENCH' (2100 MM LENGTH & 1500 MM LENGTH) BY ID METALCO, INC, RECONSTITUTED GRANITE STONE & POWDER COATED STEEL. STEEL COLOR TO BE BRONZE (RAL 1035). SURFACE MOUNTED.
- 30" MIN F7 — LANDSCAPE FORMS CHASE PARK SIDE-OPENING LITTER RECEPTACLE, DUAL USE WITH LOCK, (2) STANDARD 5X7 SIGNS, BRONZE IN COLOR. SURFACE MOUNTED PER MANUF.
- TF1 — TEMPORARY TREE PROTECTION FENCE – SEE TREE PROTECTION NOTES L7.00 & SPECS — 8 / L8.00
- CO PP2 — 4" DIA. PERFORATED PIPE W/ CLEAN OUT, SLOPED 0.5% MIN. TO SD, SEE CIVIL DRAWINGS FOR CONNECTION — 7 / L3.02
- NEW TREES SEE PLANTING PLAN & LEGEND, L7.00 & L7.01
- PLANTING AREA SEE PLANTING PLAN & LEGEND, L7.00 & L7.01 ALSO SEE SOIL PREP PLAN, L6.00
- BIO-FILTRATION AREA SEE PLANTING PLAN & LEGEND, L7.00 & L7.01 ALSO SEE CIVIL DWGS
- BARK MULCH PER SPECS
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- W1 — CONCRETE RETAINING WALL. NATURAL COLOR, MEDIUM SANDBLAST ALL EXPOSED SURFACES. HEIGHT PER CIVIL, REINFORCEMENT & FOOTINGS PER STRUC.
  - SKATE DETERRENT JOINTS, TYP. — 6 / L3.02
- W2 — LANDSCAPE FEATURE WALL WITH SKATE DETERRENT JOINT, NATURAL COLOR CONCRETE, SANDBLAST FINISH — 1 / L3.03
- W3 — INTEGRATED LANDSCAPE FEATURE WALL & PLINTH WITH SKATE DETERRENT JOINT, NATURAL COLOR CONCRETE, SANDBLAST FINISH — 3 / L3.03

NOTES

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REGISTERED LANDSCAPE ARCHITECT — ANDREW P. LATHROP — No. 2554 — 8.31.2017 — 09.12.2016 — STATE OF CALIFORNIA

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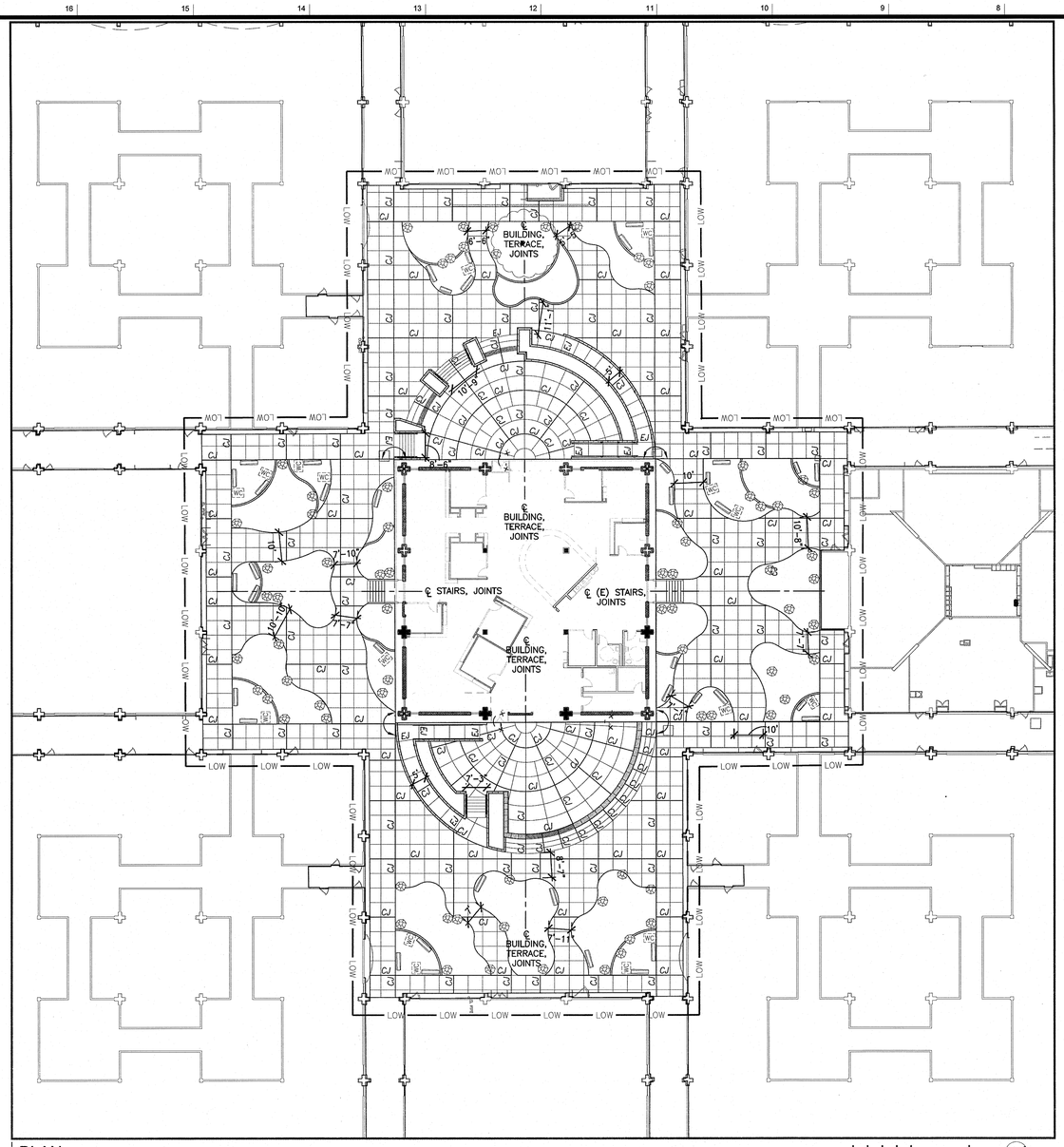
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Project No 1115-0130
Date: February 15, 2017
Sheet:

MATERIALS PLAN - ENLARGEMENT

L1.02

PERMIT BACKCHECK



PLAN

0 20 40 FEET NORTH

LAYOUT LEGEND

SYMBOL	DESCRIPTION
	CONSTRUCTION JOINT EXPANSION JOINT CONTROL JOINT (2 / L3.01)
	CENTER LINE
	BASELINE
	FLUSH – SEE CIVIL DWGS FOR ALL INTERFACES OF (E) AND NEW PAVING, TYP
	ALIGN

LAYOUT NOTES

1. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO CONTINUANCE OF WORK.
2. DO NOT SCALE OFF OF PLANS.
3. FIELD VERIFY LOCATIONS OF THE UNDERGROUND UTILITIES, CALL USA ALERT (800) 642–2444 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING FACILITIES SHOWN TO REMAIN, INCLUDING ROADS AND OTHER STREET IMPROVEMENTS.
5. ALL ANGLES 90° UON
6. ALL JOINTS TO BE ON 5'X5' UON
7. SEE DETAIL SHEETS AND SPECIFICATIONS FOR MORE INFORMATION.
8. SEE TOPOGRAPHIC SURVEY FOR (E) CONDITIONS
9. PLAN DIMENSIONS ARE ROUNDED TO NEAREST 1/4 INCH.
10. SEE CIVIL DWGS FOR ADDITIONAL INFORMATION.
11. LANDSCAPE ARCHITECT WILL MAKE CAD FILES AVAILABLE FOR USE BY FIELD ENGINEER.

PATH OF TRAVEL NOTES

1. BARRIER FREE ACCESS ROUTE WITH FOLLOWING CHARACTERISTICS:
   - A. LESS THAN 1:20 MAXIMUM SLOPE WITHOUT RAMP
   - B. LESS THAN 1:50 MAXIMUM CROSS SLOPE
   - C. NO ABRUPT CHANGES IN LEVEL
   - D. 48" MIN CLEAR IN WIDTH
   - E. NON–SLIP SURFACE
   - F. ACCESSIBLE PATH SHALL HAVE NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4".
   - G. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED IN THIS PROJECT, & THAT PATH OF TRAVEL COMPLIES WITH CBC 1133B.
2. CONSTRUCT ALL PAVED AREAS TO DRAIN.
3. SEE ARCHITECT'S DWGS FOR PATH OF TRAVEL INFORMATION.

Know what's below. Call 811 before you dig.

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REGISTERED LANDSCAPE ARCHITECT 2554 Matthew Carducci 6.21.2017 08.12.2016 STATE OF CALIFORNIA

04/15-01

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Number	Revision Description	Date

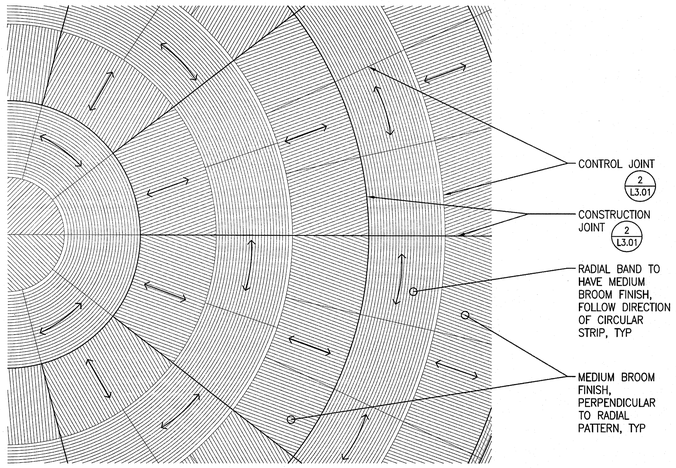
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: SSS: WO
FLS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

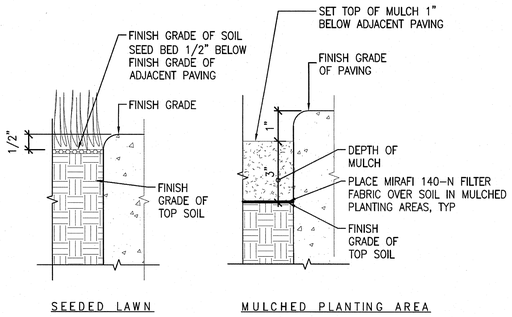
LAYOUT PLAN

L2.00

PERMIT BACKCHECK



7 BROOM FINISH – ALTERNATING DIRECTION
SCALE: 1/4" = 1'

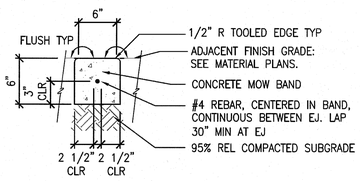


SEEDED LAWN MULCHED PLANTING AREA

NOTES:

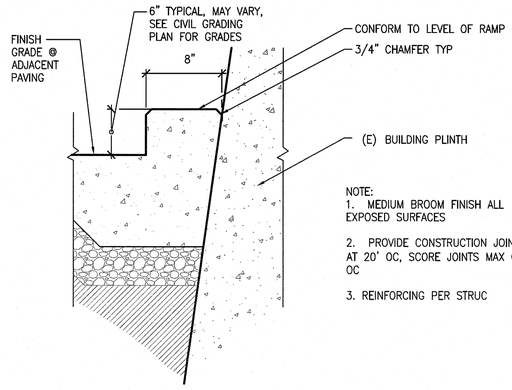
1. FINISH ELEVATION IS MEASURED AFTER SOIL PREPARATION AND FIRMING OF SOIL BY WETTING FROM IRRIGATION SYSTEM TO MINIMIZE FUTURE SETTLING.
2. IN MULCHED AREAS WHERE SOIL IS LOW RELATIVE TO EDGE OF PAVING BY NECESSITY OF GRADING, PROVIDE ADDITIONAL MULCH TO MINIMIZE DROP-OFF CONDITION WITHIN 24" OF EDGE OF PAVING.

3 GRADE AT EDGE OF PAVING
SCALE: 6" = 1'



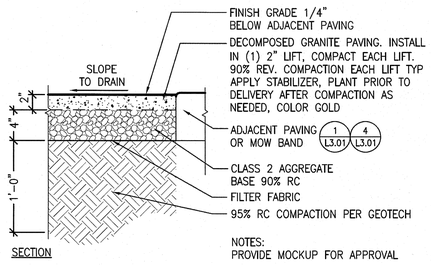
NOTE:
1. LOCATE EXPANSION JOINTS, AT POINTS OF TANGENCY & POINT OF CURVATURE AT EQUAL SPACING NOT TO EXCEED 20'.
2. EQUALLY SPACE (2) SCORE JOINTS BETWEEN EACH EXPANSION JOINT.
3. NATURAL COLOR, NON-SLIP MEDIUM BROOM FINISH
4. PROVIDE ON-SITE MOCKUP FOR REVIEW & ACCEPTANCE
5. DOWEL TO ADJACENT PAVING WHERE IT OCCURS
6. TYP ALONG MOWED TURF AND DECOMPOSED GRANITE ONLY

4 CONCRETE MOW BAND
SCALE: 1 1/2" = 1'



NOTE:
1. MEDIUM BROOM FINISH ALL EXPOSED SURFACES
2. PROVIDE CONSTRUCTION JOINTS AT 20' OC, SCORE JOINTS MAX OF 5' OC (2 L3.01)
3. REINFORCING PER STRUC

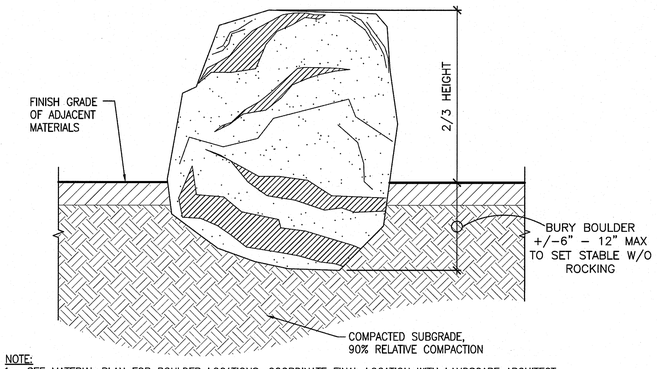
5 CONCRETE CURB @ RAMP
SCALE: 1 1/2" = 1'



SECTION

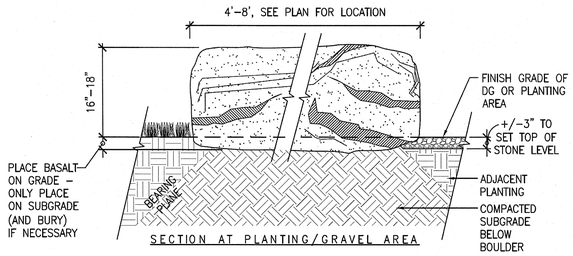
NOTES:
PROVIDE MOCKUP FOR APPROVAL

6 DECOMPOSED GRANITE PAVING (DG)
SCALE: 1 1/2" = 1'



NOTE:
1. SEE MATERIAL PLAN FOR BOULDER LOCATIONS, COORDINATE FINAL LOCATION WITH LANDSCAPE ARCHITECT.
2. BOULDER, VERIES SIZE, SONOMA FIELD STONE, 18"-36"ø X 24"-48" LONG, AVAILABLE FROM LYNGSO GARDEN 650-364-1730 OR AMERICAN SOIL & STONE 510-292-3000.

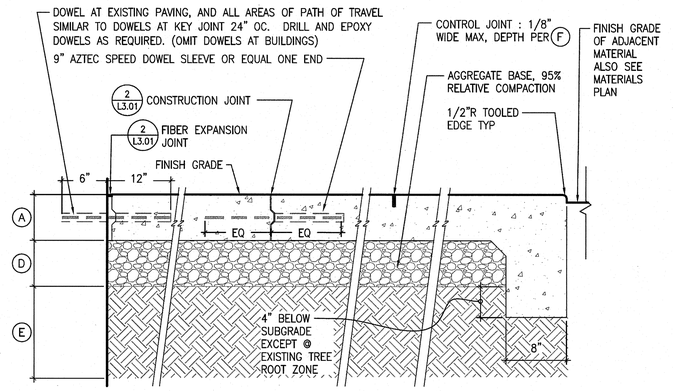
8 BOULDER
SCALE: 1 1/2" = 1'



SECTION AT PLANTING/GRAVEL AREA

NOTES:
1. AVAILABLE AT JOHNSON ORNAMENTAL STONE, SANTA ROSA (707) 584-7480, AMERICAN SOIL & STONE, (510) 292-3000, OR EQ.
2. COLOR TO VARY, INCLUDE RUST, BEIGE, AND GRAY. SUBMIT PHOTOS FOR ACCEPTANCE PRIOR TO PURCHASE.

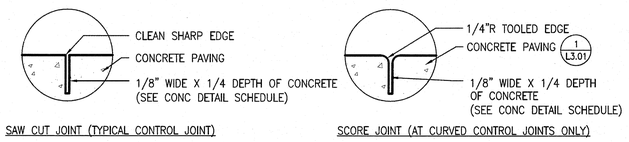
9 BASALT COLUMN
SCALE: 3/4" = 1'



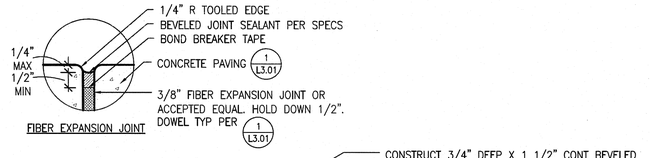
NOTES:
1. NON-SLIP FINISH TYP. SEE PLANS FOR COLOR & FINISH TYPE.
2. SCORE JOINTS SHALL BE PLACED A MAX OF 5' OC OR AS SHOWN ON PLANS. EJs WHERE SHOWN.
3. 2% MAX CROSS SLOPE IN ALL AREAS WITHIN PATH OF TRAVEL. IF FIELD CONDITIONS CREATE MORE THAN 2% CROSS SLOPE DO NOT POUR CONCRETE WITH OUT APPROVAL BY LANDSCAPE ARCHITECT
4. SUBMIT MOCK UP FOR APPROVAL BY ARCHITECT & DISTRICT.
5. SEE STRUCTURAL DWGS FOR SLAB REINFORCEMENT.

		CONCRETE PAVING
A	CONC. THICKNESS	5"
B	REBAR	PER STRUC
C	REBAR SPACING CENTER IN SLAB	PER STRUC
D	CLASS II AGG. BASE THICKNESS	12"
E	COMPACTED SUBGRADE	95% RC
F	CONTROL JOINT DEPTH	1.25"

1 CONCRETE PAVING
SCALE: 1 1/2" = 1'



SAW CUT JOINT (TYPICAL CONTROL JOINT) SCORE JOINT (AT CURVED CONTROL JOINTS ONLY)



FIBER EXPANSION JOINT CONSTRUCTION JOINT

NOTES:
1. MOCK UP JOINTS WITH CONC PAVING MOCKUP FOR REVIEW AND ACCEPTANCE.
2. SAW CUT WITHIN 48 HOURS OF POUR, PROCEED AS SOON AS CONCRETE IS FIRM ENOUGH TO PREVENT DEFORMATION AND RAVELING TYP

2 CONCRETE PAVING JOINTS
SCALE: 6" = 1'

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LICENSED LANDSCAPE ARCHITECT — 2554 — 8.31.2017 — 09.12.2018 — STATE OF CALIFORNIA

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FILE # : 43-110
AC: SSS: DATE FEB 23 2017
IDENTIFICATION STAMP

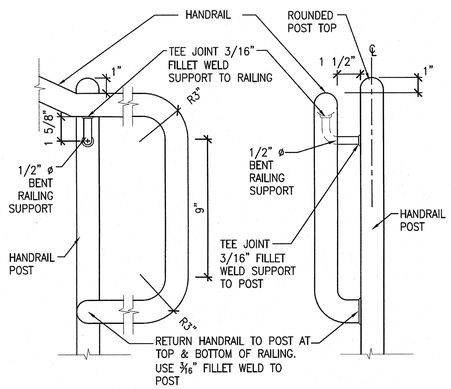
Project No 1115-0130
Date: February 15, 2017
Sheet:

CONSTRUCTION DETAILS

L3.01

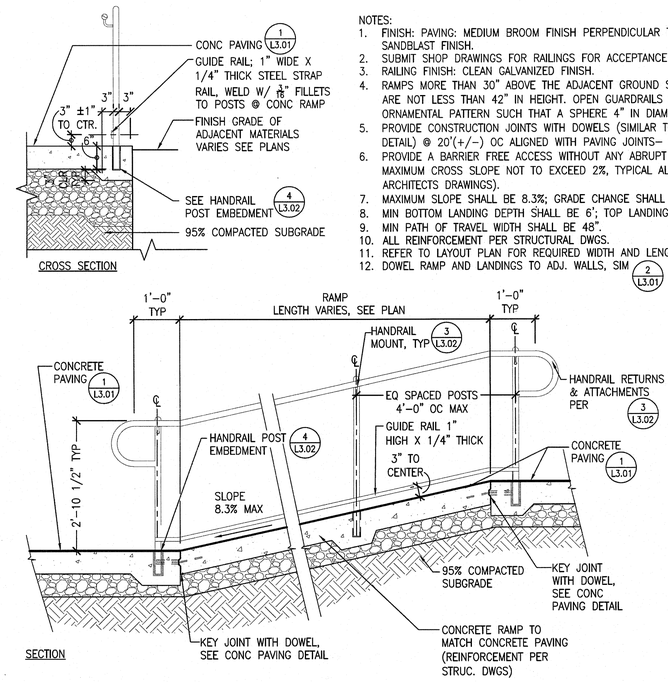
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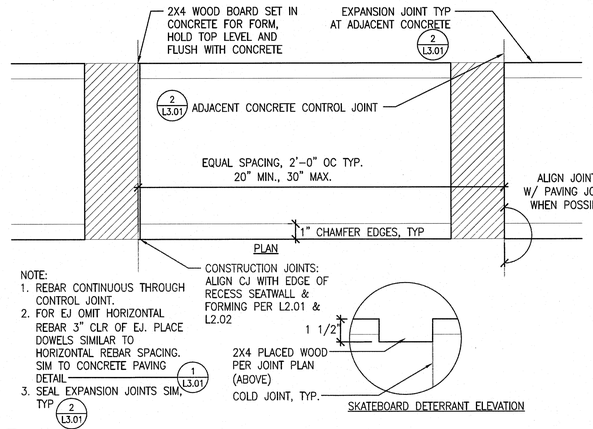
NOTES:
1. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE.
2. GRIND SMOOTH WELDS TYP.
3. FINISH: CLEAN GALVANIZED ACCEPTABLE TO INSPECTOR OF RECORD.
4. HANDRAILS & POSTS SHALL BE ASTM a53, SCH 40: 1" NOM. DIAMETER (1.315" OUTER DIAMETER), TYPICAL.

3 HANDRAIL MOUNT
SCALE: 3" = 1'



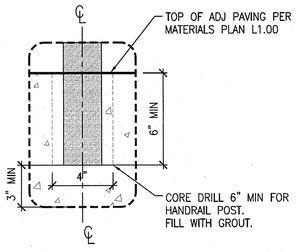
NOTES:
1. FINISH: PAVING: MEDIUM BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL. WALLS: MEDIUM SANDBLAST FINISH.
2. SUBMIT SHOP DRAWINGS FOR RAILINGS FOR ACCEPTANCE TO ARCHITECT.
3. RAILING FINISH: CLEAN GALVANIZED FINISH.
4. RAMPS MORE THAN 30" ABOVE THE ADJACENT GROUND SHALL BE PROVIDED WITH GUARDRAILS THAT ARE NOT LESS THAN 42" IN HEIGHT. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH.
5. PROVIDE CONSTRUCTION JOINTS WITH DOWELS (SIMILAR TO THOSE SHOWN IN CONCRETE PAVING DETAIL) @ 20'(+/–) OC ALIGNED WITH PAVING JOINTS– SEE MATERIALS PLAN.
6. PROVIDE A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/4". MAXIMUM CROSS SLOPE NOT TO EXCEED 2%, TYPICAL ALONG ACCESSIBLE PATH OF TRAVEL (SEE ARCHITECTS DRAWINGS).
7. MAXIMUM SLOPE SHALL BE 8.3%; GRADE CHANGE SHALL NOT EXCEED 30" FROM TOP TO BOTTOM.
8. MIN BOTTOM LANDING DEPTH SHALL BE 6'; TOP LANDING MIN DEPTH SHALL BE 5'.
9. MIN PATH OF TRAVEL WIDTH SHALL BE 48".
10. ALL REINFORCEMENT PER STRUCTURAL DWGS.
11. REFER TO LAYOUT PLAN FOR REQUIRED WIDTH AND LENGTHS FOR SPECIFIC RAMPS AND LANDINGS.
12. DOWEL RAMP AND LANDINGS TO ADJ. WALLS, SIM 2 L3.01

1 ACCESSIBLE RAMP
SCALE: 3/4" = 1'



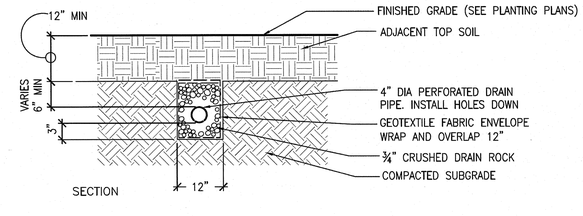
NOTE:
1. REBAR CONTINUOUS THROUGH CONTROL JOINT.
2. FOR EJ OMIT HORIZONTAL REBAR 3" CLR OF EJ. PLACE DOWELS SIMILAR TO HORIZONTAL REBAR SPACING. SIM TO CONCRETE PAVING DETAIL 1 L3.01
3. SEAL EXPANSION JOINTS SIM. TYP 2 L3.01

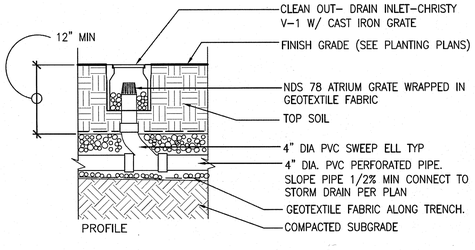
6 SKATEBOARD DETERRENT JOINT
SCALE: 3" = 1'



HANDRAIL POST EMBEDMENT

4 HANDRAIL POST EMBEDMENT
SCALE: 3" = 1'

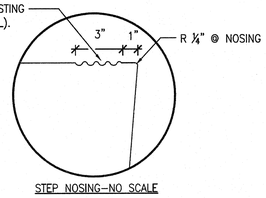




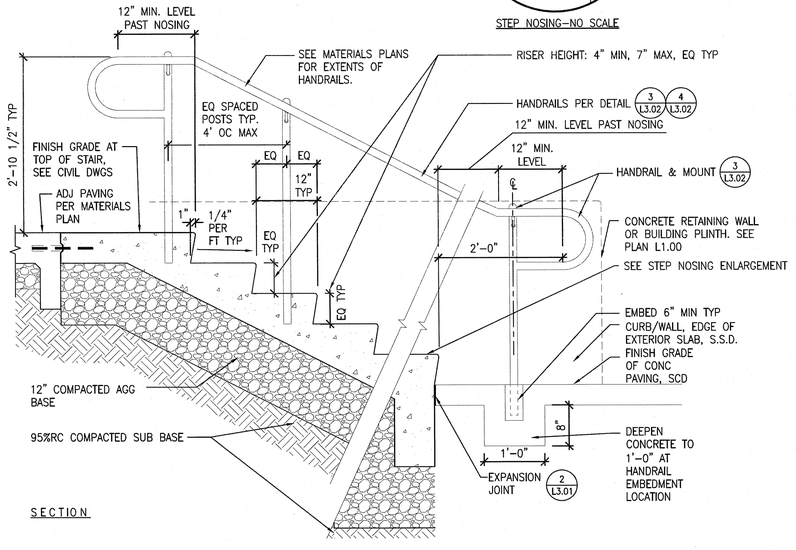
7 PERFORATED DRAIN PIPE
SCALE: 3/4" = 1'

TOOLED DETECTABLE WARNING GROOVES (1/4" DP X 3/4" OC) W/ GRIT AND CONTRASTING COLOR YELLOW DURAPOXY PAINT (AVAILABLE FROM KELLY–MOORE OR ACCEPTED EQUAL).

NOTES:
1. FINISH: HEAVY BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL.
2. PROVIDE EXPANSION JOINTS WITH DOWELS (SIMILAR TO THOSE SHOWN IN CONCRETE PAVING DETAIL) @ 20'(+–) OC ALIGNED WITH PAVING JOINTS SEE MATERIALS PLAN
3. COLOR FOR EXPOSED CONCRETE: SEE MATERIALS DRAWINGS FOR COLOR
4. SEE CIVIL DWGS AND MATERIALS PLAN FOR NUMBER OF STAIRS PER RUN TYP.
5. ALL REINFORCING PER STRUCTURAL DWGS.



STEP NOSING–NO SCALE



2 CONCRETE STAIR
SCALE: 1" = 1'

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REGISTERED LANDSCAPE ARCHITECT — JAMES R. LAFFERTY — No. 2554 — 8.31.2017 — STATE OF CALIFORNIA

GVA15-01

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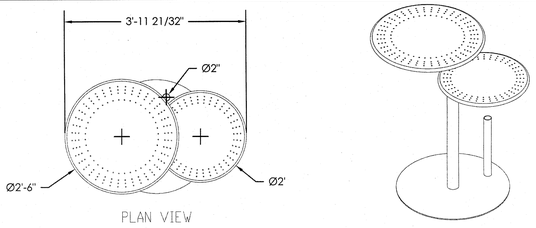
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE #: 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
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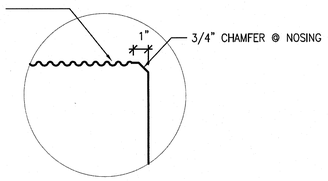
CONSTRUCTION DETAILS

L3.02

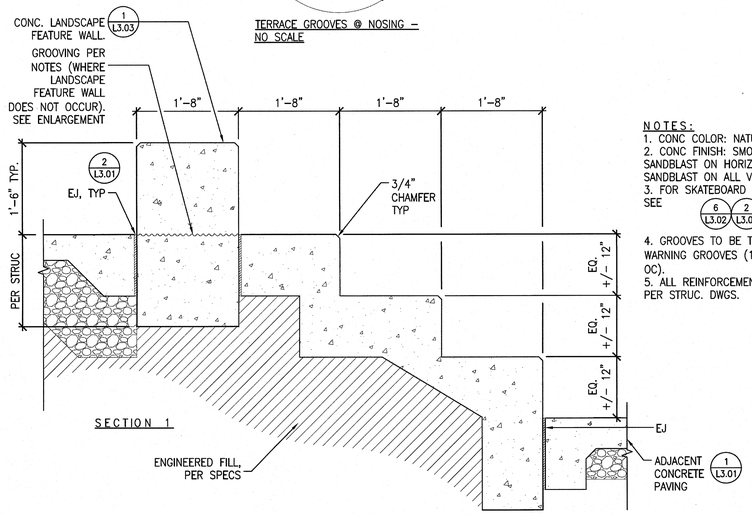
PERMIT BACKCHECK



4 ACCESSIBLE BISTRO TABLE
SCALE: 3/4" = 1'

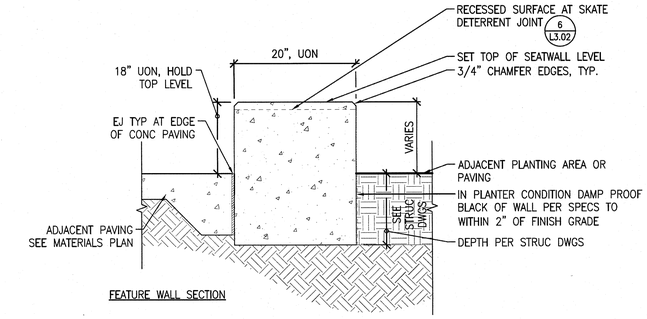


TERRACE GROOVES @ NOSING - NO SCALE

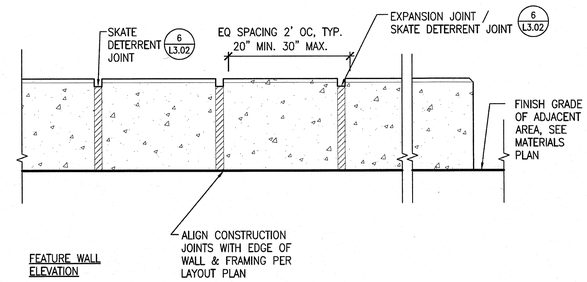


SECTION 1

NOTES:
1. CONC COLOR: NATURAL COLOR.
2. CONC FINISH: SMOOTH FORM, MEDIUM SANDBLAST ON HORIZ SURFACES, HEAVY SANDBLAST ON ALL VERT. SURFACES.
3. FOR SKATEBOARD DETERRENT & EJ SEE 6 L3.02, 2 L3.01
4. GROOVES TO BE TOOLED DETECTABLE WARNING GROOVES (1/4" DP X 3/4" OC).
5. ALL REINFORCEMENT & FOOTINGS PER STRUC. DWGS.



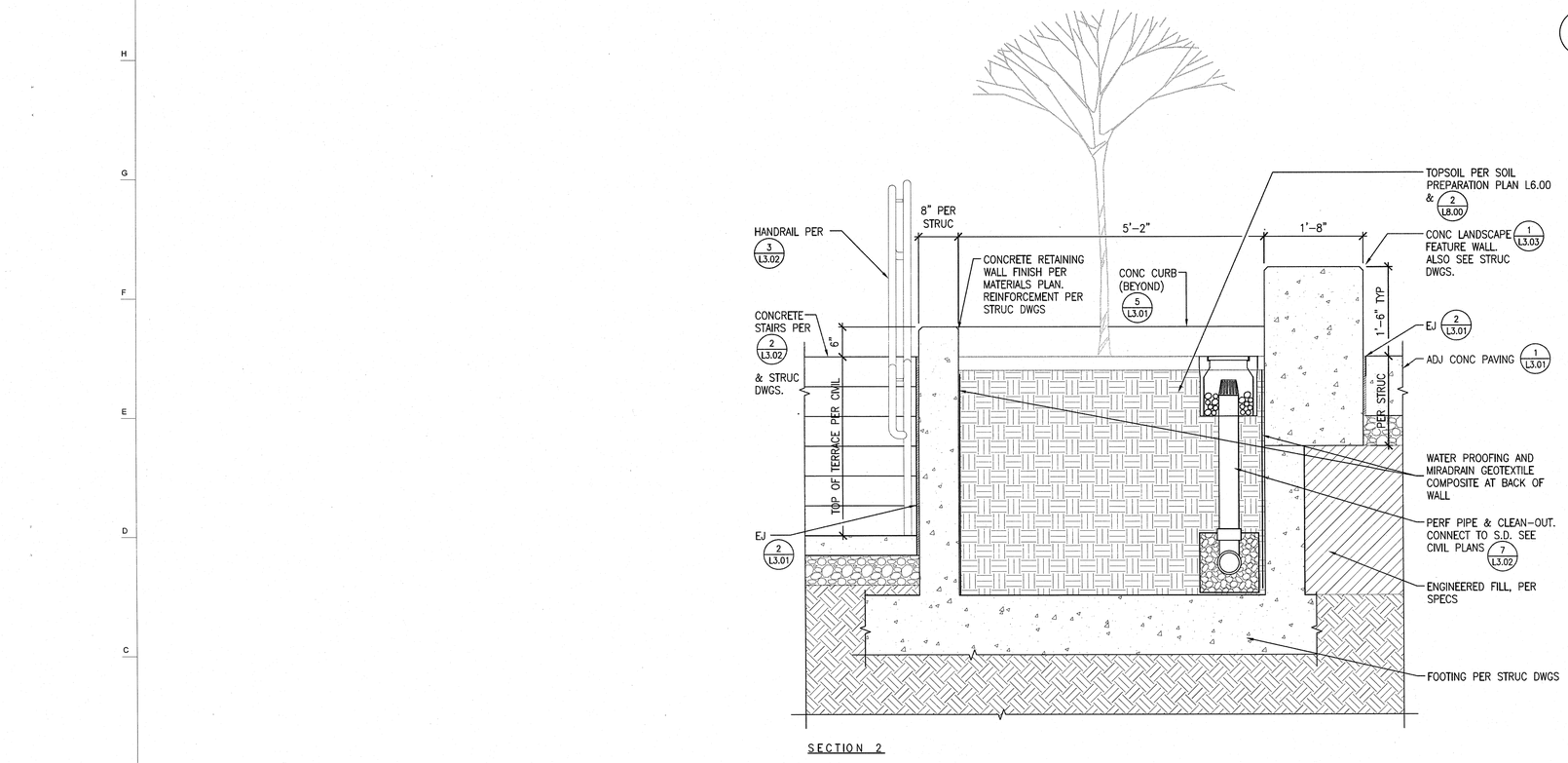
FEATURE WALL SECTION



FEATURE WALL ELEVATION

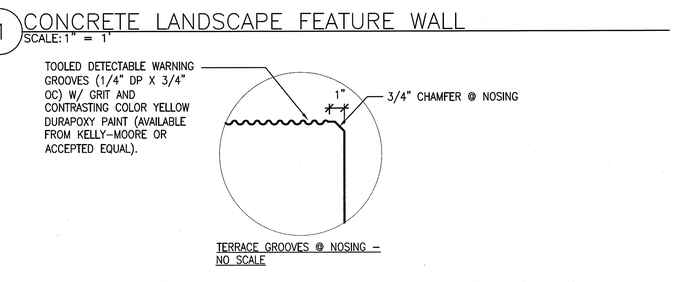
NOTES:
1. COLOR: NATURAL COLOR
2. FINISH: SMOOTH FORM, MED SAND BLAST FINISH ON ALL HORIZ SURFACE, HEAVY SANDBLAST ON ALL VERT. SURFACES.
3. FEATURE WALL 12" WIDE, HEIGHT VARY SEE GRADING PLAN
4. SEE LAYOUT PLAN FOR FEATURE WALL LOCATIONS
5. FOR WALLS LONGER THAN 20' DIVIDE INTO EQUAL PORTIONS WITH A COLD JOINT. USE JOINTS SHOWN ON PLAN AS DIVIDING POINT
6. CONTRACTOR TO PROVIDE FULL-SIZE (8'-0" LONG) MOCK-UP ONSITE FOR REVIEW AND ACCEPTANCE BY LANDSCAPE ARCHITECT, INCLUDE ALL JOINT TYPES AND SEALANT COLOR TO MATCH CONCRETE COLOR.
7. ALL REINFORCEMENT & FOOTING PER STRUCTURAL DWGS.

1 CONCRETE LANDSCAPE FEATURE WALL
SCALE: 1" = 1'

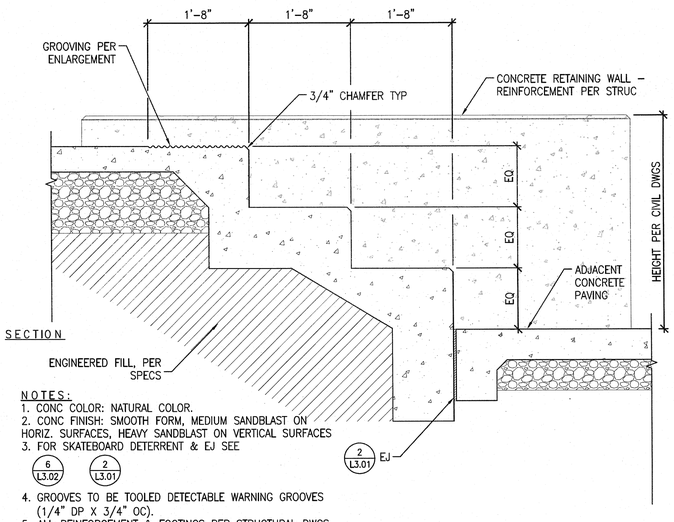


SECTION 2

3 LEARNING TERRACE SECTIONS
SCALE: 1" = 1'



TERRACE GROOVES @ NOSING - NO SCALE



SECTION

NOTES:
1. CONC COLOR: NATURAL COLOR.
2. CONC FINISH: SMOOTH FORM, MEDIUM SANDBLAST ON HORIZ. SURFACES, HEAVY SANDBLAST ON VERTICAL SURFACES
3. FOR SKATEBOARD DETERRENT & EJ SEE 6 L3.02, 2 L3.01
4. GROOVES TO BE TOOLED DETECTABLE WARNING GROOVES (1/4" DP X 3/4" OC).
5. ALL REINFORCEMENT & FOOTINGS PER STRUCTURAL DWGS.

2 ARRIVAL TERRACE SECTION
SCALE: 1" = 1'

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LICENSED LANDSCAPE ARCHITECT 2554 REGISTERED 8.31.2017 RENEWAL 09.12.2015 STATE OF CALIFORNIA

gva15-01

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Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: FLS: DATE FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

CONSTRUCTION DETAILS

L3.03

PERMIT BACKCHECK

BUBBLERS

10 L5.00	RD1804-SAM-PRS-1401	RAINBIRD	BLACK	FULL-CIRCLE FLOOD BUBBLER ON 4" POP-UP WITH SEAL-A-MATIC AND PRESSURE REGULATION. FLOW AT 0.25 GPM, TYP	0.25 40
9 L5.00	XCZ-LF-100-PRF (FLOW BETWEEN 0.2 TO 4.9 GPM) XCZ-PRB-100-COM (FLOW BETWEEN 5.0 TO 20 GPM)	RAINBIRD		XZC CONTROL ZONE KIT, WITH STAINLESS STEEL SCREEN FILTER, PRESSURE REGULATED REMOTE CONTROL VALVE, ISOLATION BALL VALVE & EFFLUENT SOLENOID & ID TAG	

VALVE CALLOUT WITH DRIP VALVE INFO: DRIP LINE MODEL, FLOW RATE & LINE SPACING

1A XFSP 0418 1" 18" 1.0

XFSP 0418 — DRIP LINE MODEL # (GPH AND EMITTER SPACING)

18" — DRIP LINE SPACING (MAX)

		MAXIMUM LINE RUN LENGTH @ 30PSI:		DESCRIPTION
3 L5.01 / 2 L5.01	XFS-06-18-500 (18")	413'	RAINBIRD	0.61 GPH DRIPPERLINE WITH COPPER SHIELD EMITTERS AT 18" ON CENTER
	XFS-06-12-500 (12")	360'	RAINBIRD	0.61 GPH DRIPPERLINE WITH COPPER SHIELD EMITTERS AT 12" ON CENTER
1 L5.01	MDC ###, AS DETAILED		RAINBIRD	DRIPPERLINE TO DRIPPERLINE CONNECTION. USE RAINBIRD EASY FIT COMPRESSION FITTING SYSTEM COMPATIBLE WITH DRIPPERLINE PIPE. USE THIS CONNECTION AT TIGHT BENDS AND AS INDICATED ON DETAIL DIAGRAM.
1 L5.01	PVC TO DRIP CONNECTION		RAINBIRD	PVC TO DRIPPERLINE CONNECTION. USE RAINBIRD EASY FIT COMPRESSION FITTING SYSTEM COMPATIBLE WITH DRIPPERLINE PIPE. USE THIS CONNECTION AT TIGHT BENDS AND AS INDICATED ON DETAIL DIAGRAM.
4 L5.01	ARV050		RAINBIRD	AIR VACUUM RELIEF VALVE AND BOX PER DETAIL. CROSS-CONNECT ALL DRIPPERLINES TO AVRV WITH BLANK TUBING
5 L5.01	SEE DETAIL		RAINBIRD	MANUAL FLUSH VALVE ASSEMBLY AND AUTO-FLUSH VALVE IN BOX PER DETAIL.
	OPERIND		RAINBIRD	POP-UP INDICATOR. SET FLUSH WITH FINISH GRADE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. LOCATE AWAY FROM PATHWAYS, AT LOCATIONS DIRECTED BY THE SITE MAINTENANCE PERSONNEL.
	PVC: CLASS 200 SCH 40 UNDER PAVING — PURPLE PIPE TYP			PURPLE NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN. PIPE SIZE. INSTALL AS COLLECTOR LATERAL FOR ALL WATER THAT HAS PASSED THROUGH DRIPPERLINES.

VALVE BOX SPECIFICATIONS:

1. PLASTIC IRRIGATION VALVE BOXES SHALL BE GREEN COLOR, USE CONCRETE BOXES IN DG & PAVING AREAS AS SHOWN IN THE IRRIGATION DETAILS.
2. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN FOR INSTALLATION LOCATIONS, AS WELL AS VALVE BOX LAYOUT DETAIL

SPRAY AND GENERAL IRRIGATION NOTES:

1. INSTALL MAIN LINES, LATERAL LINES AND EQUIPMENT IN PLANTING AREAS AND NOT UNDER PAVEMENT EXCEPT WHERE NECESSARY BETWEEN PLANTERS SEPARATED BY PAVEMENT.
2. INSTALL ALL HEADS ADJACENT TO BUILDINGS AT LEAST 18" AWAY FROM THE BUILDING FACE.
3. THE CONTRACTOR SHALL VERIFY THAT THERE IS NO OVERSPRAY ONTO BUILDINGS, WALLS, COLUMNS OR FENCES. ADJUST OR RENOZZLE AS REQUIRED.
4. INSTALL SLEEVES FOR ALL LATERALS UNDER CONCRETE UNLESS SPECIFICALLY NOTED. NO SLEEVES ARE REQUIRED FOR LATERAL LINES UNDER ASPHALTIC CONCRETE, UNLESS OTHERWISE SHOWN ON PLANS.
5. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN FOR INSTALLATION LOCATIONS, AS WELL AS VALVE BOX LAYOUT DETAIL

SUBSURFACE DRIP IRRIGATION NOTES:

1. HOLD DRIPPERLINES 18" OFF FACE OF BUILDING, 6" OFF PAVING, TYP.
2. SPACE DRIPPERLINES EQUALLY WITHIN EACH ZONE UNLESS OTHERWISE NOTED (12" OR 18" O.C. MAX PER LEGEND)
3. FOR SLOPES GREATER THAN 10:1, MODIFY DRIPPERLINE SPACING ON THE BOTTOM 1/3 OF THE SLOPE TO BE 25% GREATER AND OMIT THE DRIPPERLINE AT THE BOTTOM OF SLOPE.
4. DRIP SYSTEMS WITH 12" & 18" EMITTER SPACING HAVE DIFFERENT PRECIPITATION RATES. INDEPENDENTLY TEST AND SET RUN TIMES FOR THESE TWO CONDITIONS.
5. INSTALL AVRV(S) AT HIGH POINT(S) OF EACH PLANTING AREA. AVRV'S ARE SHOWN TO INDICATE INTENT- LOCATE AS REQUIRED BASED ON ACTUAL GRADES OF THE SITE. LOCATE (1) AVRV PER 500' OF DRIPPERLINE TUBING, TYP. SEE DETAIL

IRRIGATION SYSTEM MAINTENANCE

1. SYSTEM OBSERVATION: THE CONTRACTOR SHALL VISUALLY CHECK ALL SYSTEMS FOR PROPER OPERATION ON A WEEKLY BASIS AND MAKE ALL NECESSARY REPAIRS. ALL EQUIPMENT SHALL BE ADJUSTED AS NECESSARY FOR PROPER COVERAGE AND FUNCTION.
2. ESTABLISHMENT IRRIGATION SCHEDULING: FOR THE FIRST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER IN A PLANTING ESTABLISHMENT IRRIGATION MODE. SCHEDULE IRRIGATION TO ESTABLISH PLANTINGS PER THE SPECIFICATIONS.
3. CLIMATOLOGICALLY CONTROLLED IRRIGATION SCHEDULING: FOR THE LAST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER TO RUN AUTOMATICALLY. SITE-SPECIFIC CLIMATOLOGICAL EVAPOTRANSPIRATION (ET) DATA. OPTIMIZE AUTOMATIC SCHEDULE AS REQUIRED FOR PLANT MATERIALS, SUN, ASPECT, SOLAR REFLECTANCE & HEAT ISLANDS, LOCALITY, SLOPE, AND THE INSTALLED IRRIGATION SYSTEM. CHECK SYSTEM FOR PROPER FUNCTION AND ADJUST AUTOMATIC SCHEDULE WEEKLY TO PROVIDE OPTIMAL CONDITIONS FOR SUSTAINING HEALTHY PLANTING.
4. MAINTENANCE STAFF TRAINING: PERFORM A FULL INSTRUCTION SESSION IN THE PRESENCE OF THE DESIGNATED MAINTENANCE PERSONNEL DEMONSTRATING THE IRRIGATION CONTROLLER SYSTEM, PROGRAM ADJUSTMENT AND OVER-RIDES, SYSTEM TESTING, TROUBLE-SHOOTING, ETC. INCLUDE INSTRUCTIONS ON HOW TO TURN OFF SYSTEM IN CASE OF EMERGENCY.
5. REPAIRS: DURING THE PLANT ESTABLISHMENT & MAINTENANCE PERIOD, ALL REPAIRS MADE TO THE IRRIGATION SYSTEM SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL REPAIRS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS.
6. SYSTEM CERTIFICATION: OBTAIN A LETTER OF CERTIFICATION FROM CONTROLLER MANUFACTURER'S REPRESENTATIVE CERTIFYING THAT THE CONTROLLER IS PROPERLY PROGRAMMED AND IN WORKING ORDER BEFORE THE END OF THE MAINTENANCE PERIOD.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	MANUFACTURER	DESCRIPTION & NOTES
	POINT OF CONNECTION		POINT OF CONNECTION, TAB INTO EXISTING POTABLE WATER LINE AT THE UPSTREAM OF THE BACK FLOW PREVENTER. SEE PLUMBING AND CIVIL DRAWINGS FOR THE CONNECTION TO EXISTING POTABLE WATER. STATIC WATER PRESSURE FROM A NEARBY HOSEBIB IS 70 PSI. WATER PRESSURE AT THE MARTEN AVENUE IS FROM 77 TO 80 PSI, FIELD VERIFY.
11 L5.00 C	ESP-LXMEF-18 WITH ET MANAGER CARTRIDGE	RAINBIRD	ESP-LXME MODULAR EXPANDABLE IRRIGATION EXTERIOR METAL WALL MOUNT CONTROLLER. BASE MODULE 18 STATIONS WITH WEATHER-BASED ET MANAGER CARTRIDGE. COORDINATE INSTALLATION WITH RAINBIRD REPRESENTATIVE MIKE McCAULEY 916-941-8309
RS	WR2-RFC	RAINBIRD	RAINBIRD WIRELESS RAIN SENSOR/FREEZE COMBO. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AS REQUIRED. LOCATE SO THAT SENSOR RECEIVES UNOBSTRUCTED RAINFALL. CLEAR OF IRRIGATION AND OTHER ARTIFICIAL WATER SOURCES. TEST SIGNAL STRENGTH AND COMMUNICATION WITH CONTROLLER. RESOLVE SIGNAL STRENGTH AS REQUIRED FOR PROPER SENSOR FUNCTION.
7 L5.01 / 6 L5.01 BFP	825-YA -1.5"	FEBCO	REDUCED PRESSURE BACKFLOW PREVENTER WITH FROST BLANKET, INSTALL PER MANUFACTURER RECOMMENDATION.
13 L5.00 MV	2000 SERIES - 1½"	GRISWOLD	NORMALLY OPEN MASTER VALVE
FS	IR-220P - 1"	DATA INDUSTRIAL	FLOW SENSOR
3 L5.00 / 8 L5.00	###-PESBR-PRS-D SERIES RCV WITH PRS-D BODULE	RAINBIRD	REMOTE CONTROL VALVE ASSEMBLY W/ OPTIONAL PRESSURE REGULATING MODULE. SIZE PER PLAN. TUNE VALVE FOR FLOWS FROM 1-5 GPM. EFFLUENT WATER IDENTIFICATION KIT AND BOX. SIZE PER PLAN
# L5.00	LT-####-T LINE SIZE TYP (1½" AND SMALLER)	KBI	LO-TORQUE™ SCH 80 PVC THREADED BALL VALVE SHUT-OFF OR ISOLATION VALVE, FOR LINES 1½" AND SMALLER
7 L5.00	44NP 2049 - PROVIDE (3) TOTAL SH-1 - PROVIDE (3) TOTAL 55K-1 - PROVIDE (3) TOTAL	RAINBIRD	2-PIECE, 1" SINGLE-LUG RECYCLED WATER QUICK COUPLER VALVE W/ LAVENDER LOCKING COVER KEY FOR LOCKING COVER 1" NPT x 1" MHT HOSE SWIVEL SINGLE LUG KEY, 1" TOP PIPE THREAD OUTLET W/INTERNAL 3/4" NPT THREAD
6 L5.00 PB	CARSON #1419 CHRISTY #N-9 (PAVING)	CARSON CHRISTY	PULL BOX
	PVC: CLASS 200 SCH 40 UNDER PAVING	--	NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN. PIPE SIZE, PURPLE PIPE TYP
	PVC: CLASS 315 SCHEDULE 40	--	MAIN PRESSURE IRRIGATION PIPE, PURPLE PIPE TYP, SEE SPECS
	PVC: CLASS 315	--	SLEEVE. SIZE AS REQUIRED.
E E	PVC: SCHEDULE 40 ELECTRICAL CONDUIT	--	ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING.
FS FS	FLOW SENSOR CABLE	--	ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING.
W	EXISTING POTABLE WATER LINE, SEE CIVIL DRAWINGS FOR IRRIGATION CONNECTION		

SIZE	MATERIAL
1"-1½"	SCH 40 W/SOLVENT WELD SCH 40 FITTINGS
2"	CLASS 315 W SOLVENT WELD SCH 40 FITTINGS

SEE PLANTING PLAN L7.01 FOR VALVE LOCATIONS TYP

VALVE BOX LAYOUT

TRENCHING DETAIL 1 L5.00

¾" 1" 1¼" 1½" 2" — LATERAL SIZING

1" 1¼" 1½" 2" — MAINLINE SIZING

— STATION NUMBER

SIZE — VALVE SIZE

GPM — GALLONS PER MINUTE

IRRIGATION USING RECYCLE WATER, CALCULATION BASED ON SPECIAL LANDSCAPE AREA

HYDROZONE INFORMATION TABLE

REFERENCE ANNUAL ET_O FOR: (NEAREST CITY: WUCOLS IV)	SAN JOSE	45.3

ET ADJUSTMENT FACTOR	.65	ET ADJ FACTOR PER MWELO & CALGREEN: 0.65= SCHOOL 0.55= RESIDENTIAL 0.45= NON-RESIDENTIAL	SLA ADDITIONAL WATER ALLOWANCE (1.0-ETAF)	0.35

HYDROZONE	WUCOLS IV PLANT FACTOR (PF)	IRR METHOD DRIP: 0.81 BUBB.: 0.81 SPRAY: 0.75	IRRIGATION EFFICIENCY (IE)	$ETAF_2$ (PF/IE)	LANDSCAPE AREA (SQ FT)	$ETAF_2$ X AREA	ESTIMATED TOTAL WATER USE (ETWU)
C1	.3	D	.81	0.37	912	337.78	9486.83
C2	.3	D	.81	0.37	486	180.00	5055.48
C3	.3	D	.81	0.37	435	161.11	4524.97
C4	.3	D	.81	0.37	274	101.48	2850.21
C5	.3	D	.81	0.37	898	332.59	9341.20
C6	.3	D	.81	0.37	912	337.78	9486.83
C7	.3	D	.81	0.37	330	122.22	3432.73
C8	.3	D	.81	0.37	490	181.48	5097.09
C9	.3	D	.81	0.37	1161	430.00	12076.98
C10	.3	D	.81	0.37	228	84.44	2371.71
C11	.3	D	.81	0.37	665	246.30	6917.48
C12	.1	B	.81	0.12	16	1.98	55.48
C13	.1	B	.81	0.12	12	1.48	41.61
C14	.1	B	.81	0.12	20	2.47	69.35
C15	.1	B	.81	0.12	28	3.46	97.09
C16	.1	D	.81	0.12	110	13.58	381.41
				TOTAL	6977.00	2538.15	71,286.43
SPECIAL LANDSCAPE AREAS							
--				0	0	0.00	0.00
				TOTAL	0	0.00	0.00
	TOTAL LANDSCAPE AREA (LA + SLA)				6,977.00		

TOTAL ETWU	TOTAL ETWU ALL AREAS (SLA AND REGULAR LA)	TOTAL ETWU	71,286.43
MAWA	(ANNUAL ETO)(0.62 CONVERSION FACTOR) [(ET ADJUSTMENT FACTOR)(TOTAL LANDSCAPE AREA) + ((1-ETAF)*SLA))]	MAWA	127,371.42

AVERAGE ETAF	SUM($ETAF_2$ X AREA) / TOTAL AREA (AVERAGE ETAF AS DESIGNED, EXCLUSIVE OF SLA_E)	0.36
SITEWIDE ETAF	TOTAL ETAF X AREA / TOTAL LANDSCAPE AREA (INCLUDES SLA_E)	0.36

TITLE 23 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

811 Know what's below. Call 811 before you dig.

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JOB NUMBER: GVA15-01

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Number	Revision Description	Date

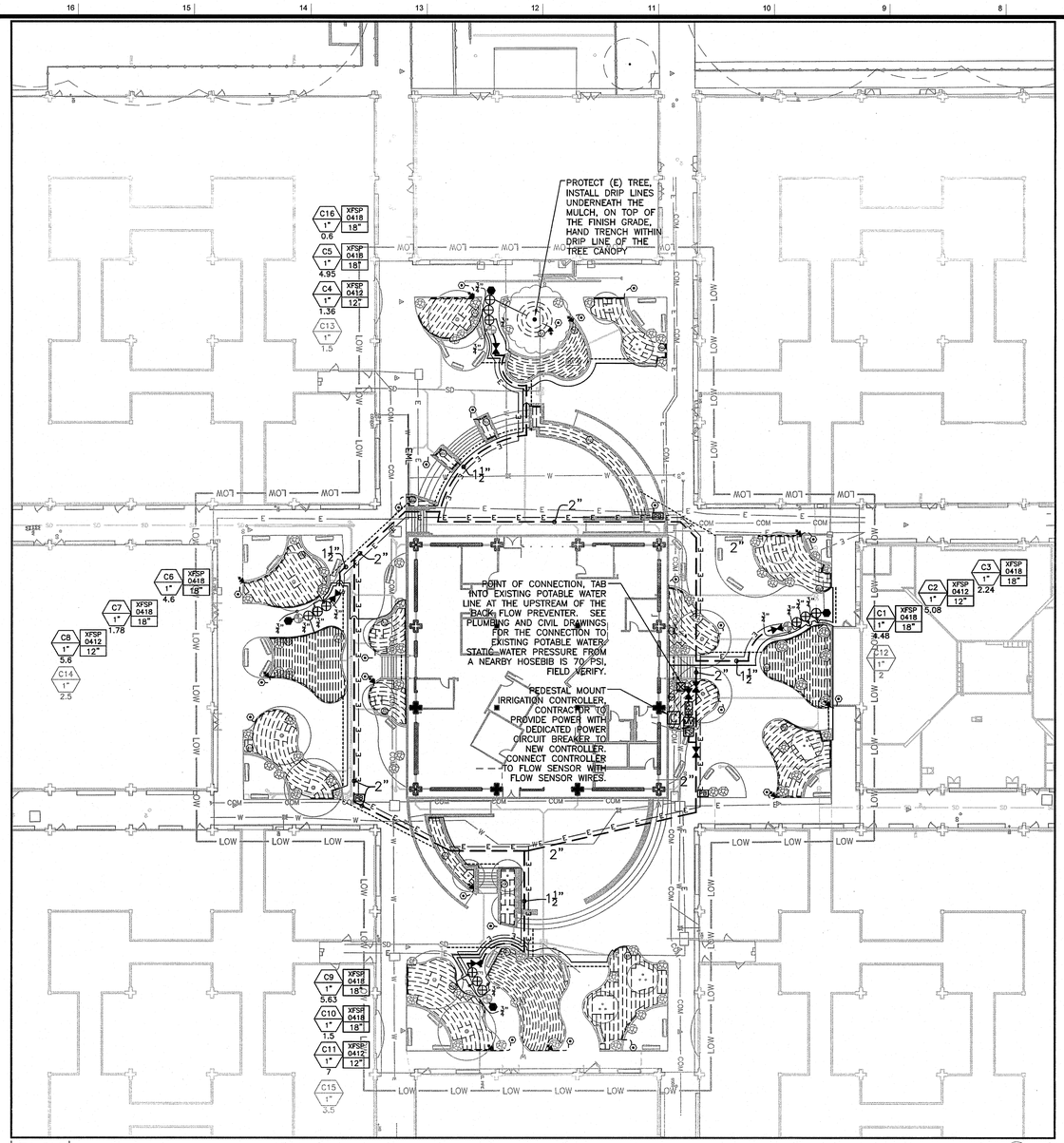
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-910
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

IRRIGATION LEGEND

L4.00

PERMIT BACKCHECK



PLAN | NOTE: SEE SHEET L4.00 FOR LEGEND AND NOTES

0 20 40 FEET NORTH

TITLE 23 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

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San Jose, CA 95127

owner:
East Side Union High School District
Facilities & Planning Division
830 North Capitol Avenue
San Jose CA 95133
United States
408.347.5102 voice
408.347.5115 fax

architect:
Gould Evans Associates
95 Brady Street
San Francisco CA 94103
United States
415.503.1411
www.gouldevans.com

structural engineer:
IDA Structural Engineers, Inc.
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Suite 300
Oakland CA 94612
United States
510-834-1629 ext. 102 voice
510-836-1629 fax

mechanical, plumbing engineer:
Capital Engineering
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electrical engineer:
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landscape architect:
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San Francisco CA 94133
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415.447.5214 voice

construction manager:
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Suite 120
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LANDSCAPE ARCHITECT — 5554 — 8.31.2017 — 09.12.2018 — STATE OF CALIFORNIA

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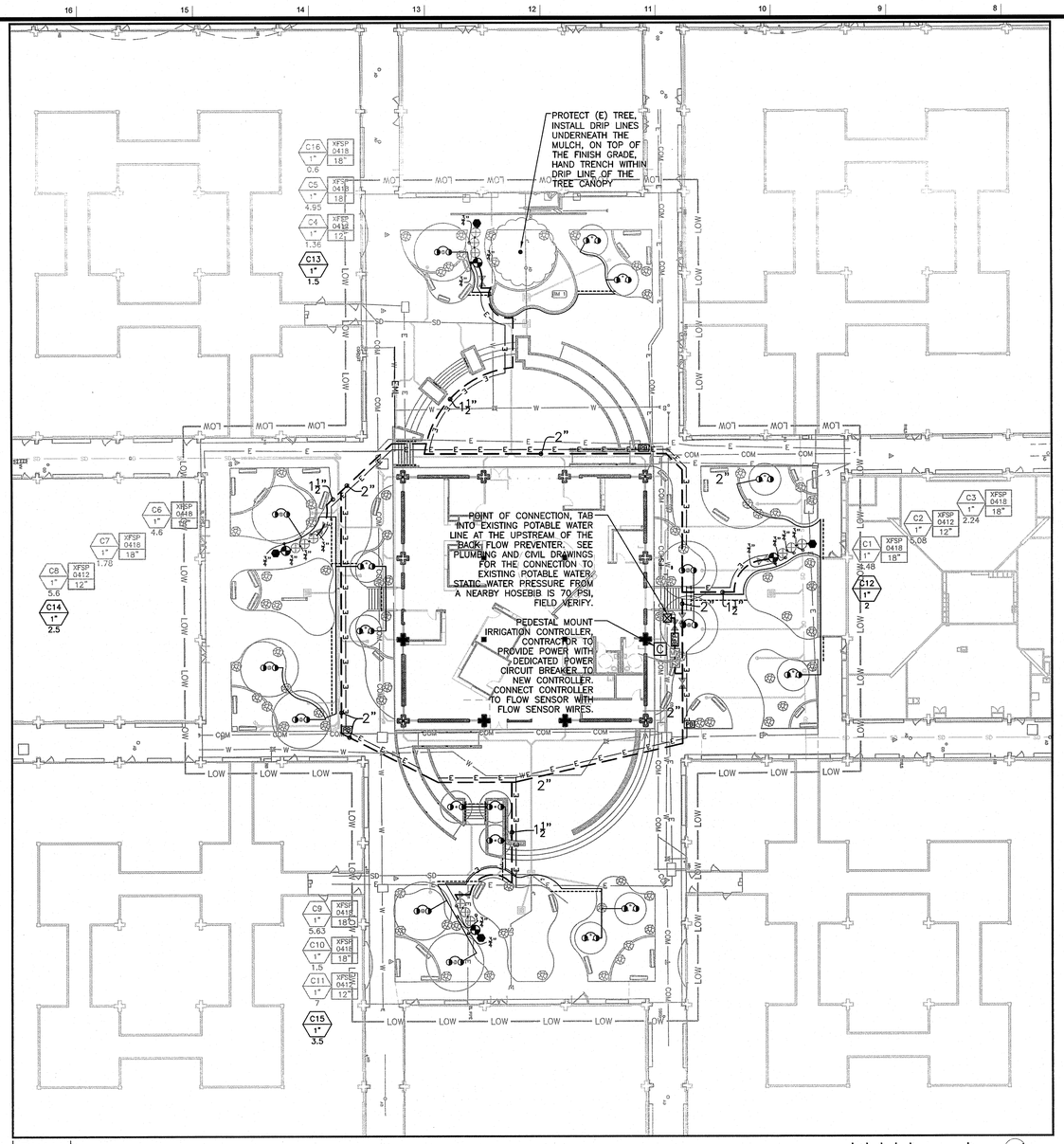
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

IRRIGATION PLAN

L4.01

PERMIT BACKCHECK



PLAN | NOTE: SEE SHEET L4.00 FOR LEGEND AND NOTES

0 20 40 FEET NORTH

TITLE 23 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
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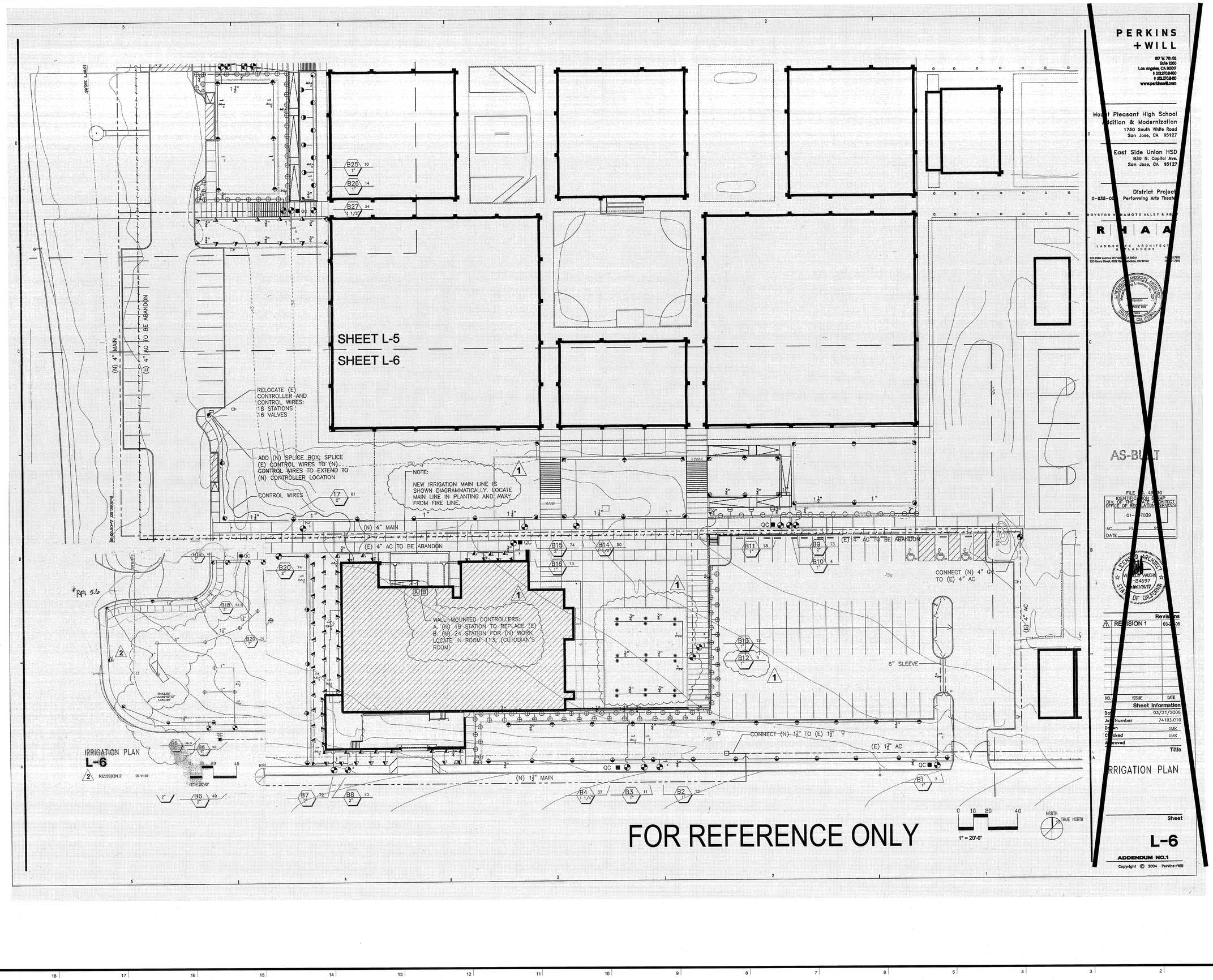
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APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE FEB 23 2017
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Project No 1115-0130
Date: February 15, 2017
Sheet:

IRRIGATION BUBBLER PLAN

L4.02

PERMIT BACKCHECK



IRRIGATION PLAN
L-6
2 REVISION 2 05-11-07

1" = 20'-0"

PERKINS +WILL
601 W. 7th St.
Suite 1200
Los Angeles, CA 90017
t 213.270.8400
f 213.270.8440
www.perkinswill.com

Mount Pleasant High School
Addition & Modernization
1750 South White Road
San Jose, CA 95127

East Side Union HSD
830 N. Capitol Ave.
San Jose, CA 95127

District Project
0-035-00 Performing Arts Theate

ROYSTON HANAMOTO ALLEY & ABEY

RHAA
LANDSCAPE ARCHITECTS & PLANNERS

AS-BUILT

FILE No. 43-10
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-117039
AC. FLS.
DATE

Revisions
1 REVISION 1 05-11-06

NO.	ISSUE	DATE

Sheet Information

Date	03/31/2006
Job Number	74103.010
Drawn	AMK
Checked	AMK
Approved	

Title
IRRIGATION PLAN

Sheet
L-6

ADDENDUM NO.1

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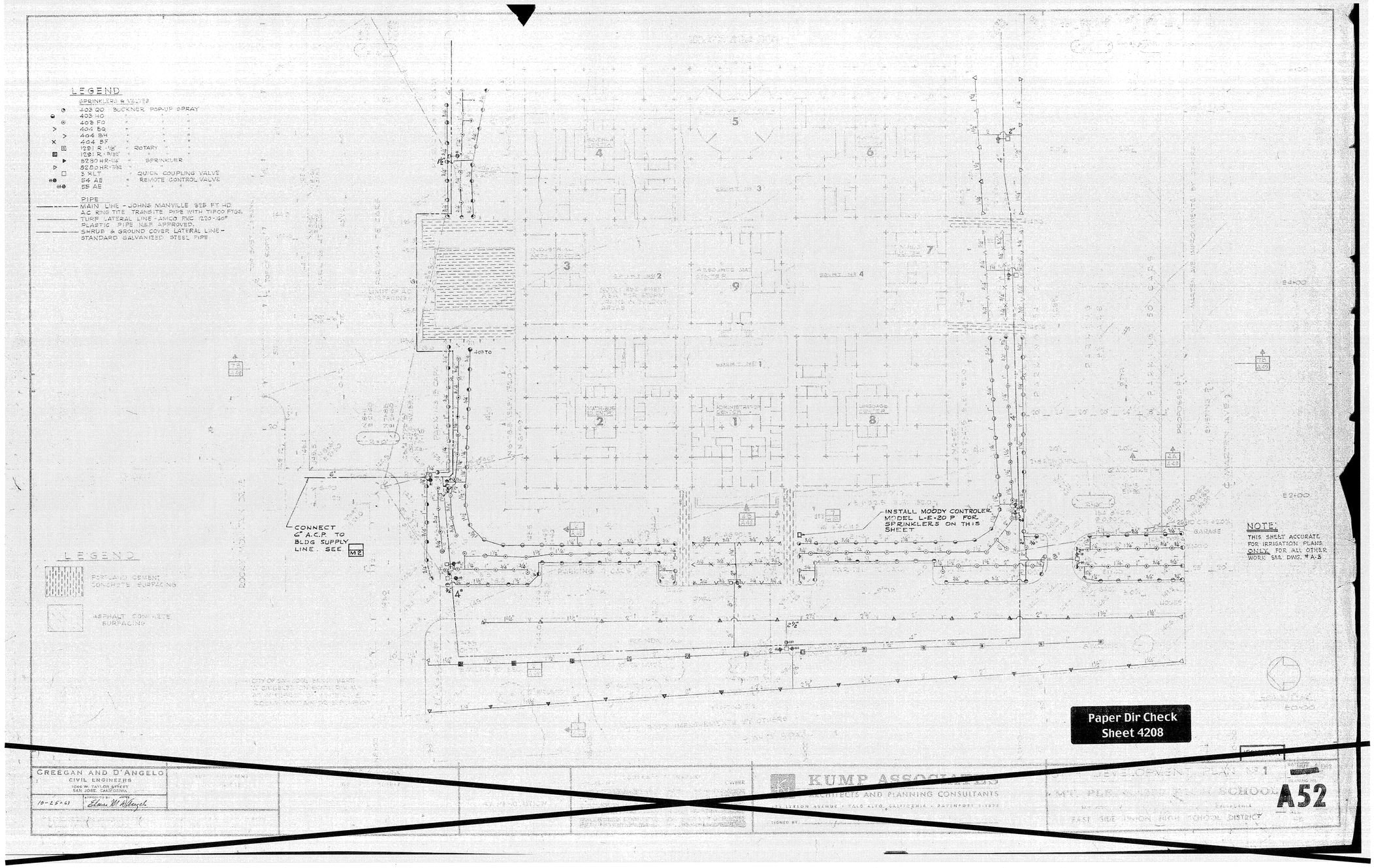
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APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
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Project No	1115-0130
Date:	February 15, 2017
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IRRIGATION REFERENCE

L4.03

PERMIT BACKCHECK



Paper Dir Check
Sheet 4208

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construction manager:
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LANDSCAPE ARCHITECT 2554 Expires 8.31.2017 09.12.2016 STATE OF CALIFORNIA

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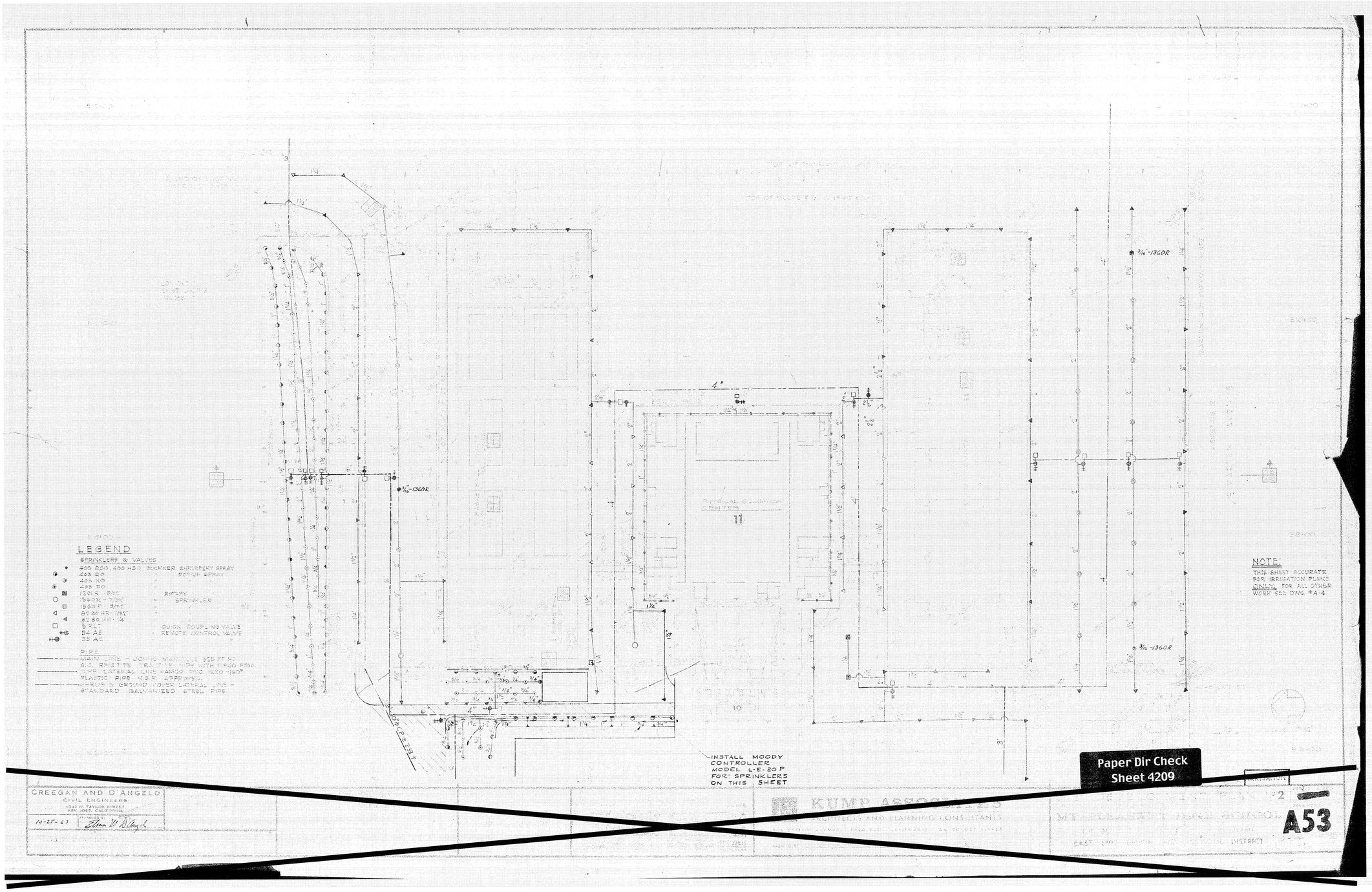
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APPLICATION # : 01-116168
FILE #: 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
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IRRIGATION REFERENCE

L4.04

PERMIT BACKCHECK



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Sheet 4209

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Facilities & Planning Division
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landscape architect:
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415.447.5214 voice

construction manager:
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408-660-4400 voice

REGISTERED LANDSCAPE ARCHITECT
LAWRENCE S. LAM
2554
8.31.2017
09.12.2016
STATE OF CALIFORNIA

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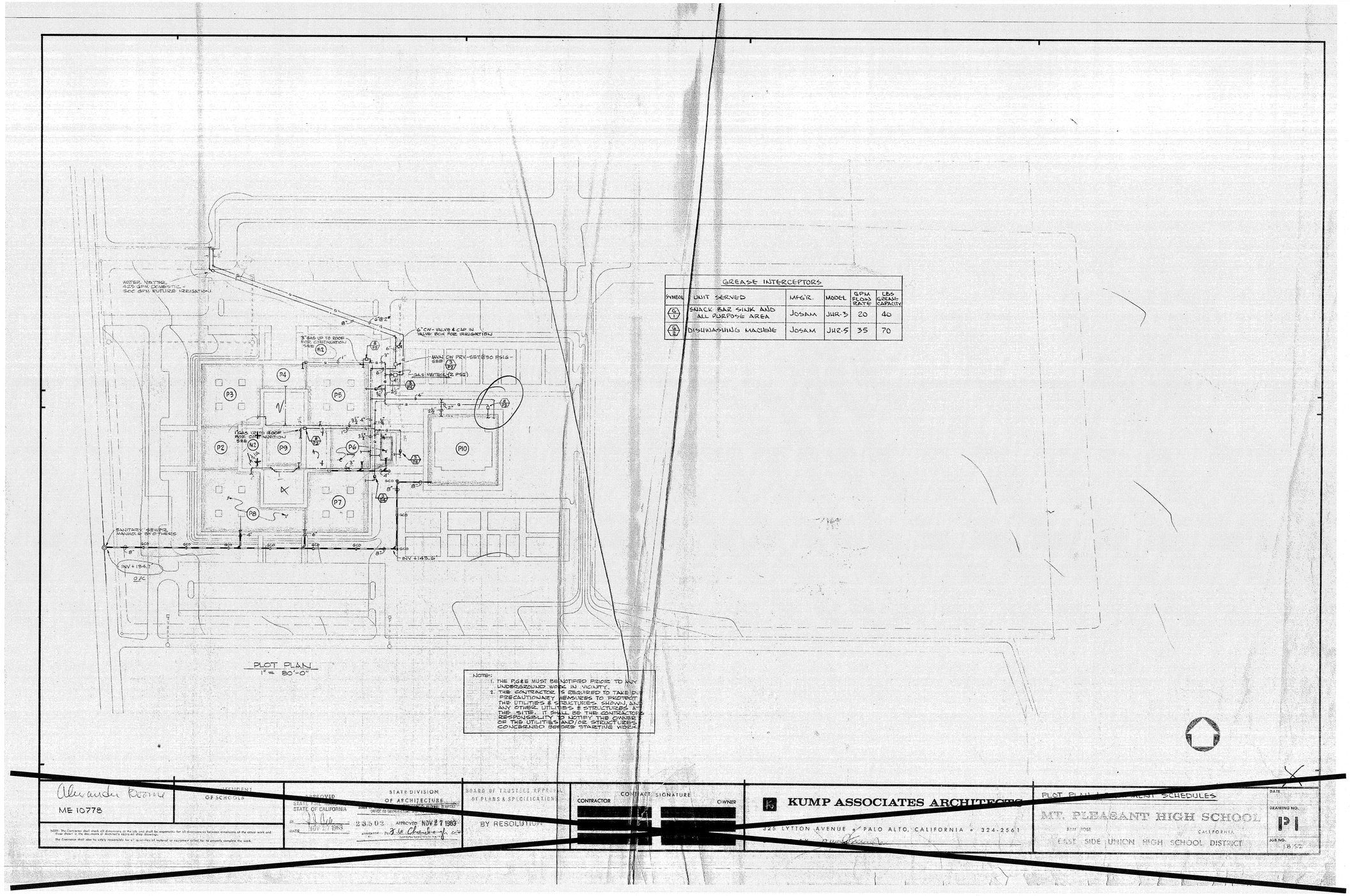
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APPLICATION # : 01-116168
FILE # : 43-10
AC: FLS:
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Project No 1115-0130
Date: February 15, 2017
Sheet:

IRRIGATION REFERENCE

L4.05

PERMIT BACKCHECK



GREASE INTERCEPTORS					
SYMBOL	UNIT SERVED	MFG'R.	MODEL	GPM FLOW RATE	LBS GREASE CAPACITY
GI-1	SNACK BAR SINK AND ALL PURPOSE AREA	JOSAM	JHR-3	20	40
GI-2	DISHWASHING MACHINE	JOSAM	JHR-5	35	70

NOTE:
1. THE PG&E MUST BE NOTIFIED PRIOR TO ANY UNDERGROUND WORK IN VICINITY.
2. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES & STRUCTURES SHOWN AND ANY OTHER UTILITIES & STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF THE UTILITIES AND/OR STRUCTURES CONCERNED BEFORE STARTING WORK.

Alexander Reding
ME 10778

NOTE: The Contractor shall check all dimensions at the job and shall be responsible for all discrepancies between dimensions of the actual work and those shown on the documents of Architect's approved shop drawings.
The Contractor shall also be fully responsible for all layouts of material or equipment called for to properly complete the work.

PRESIDENT OF SCHOOLS

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
BY
DATE NOV 27 1989

STATE DIVISION OF ARCHITECTURE
APPROVED NOV 27 1989
23502

BOARD OF TRUSTEES APPROVAL OF PLANS & SPECIFICATIONS
BY RESOLUTION

CONTRACT SIGNATURE
CONTRACTOR
OWNER

KUMP ASSOCIATES ARCHITECTS
325 LYTTON AVENUE • PALO ALTO, CALIFORNIA • 324-2561

PLOT PLAN [illegible] EQUIPMENT SCHEDULES
MT. PLEASANT HIGH SCHOOL
SAN JOSE CALIFORNIA
EAST SIDE UNION HIGH SCHOOL DISTRICT

DATE
DRAWING NO. P1
JOB NO. 1852

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REGISTERED LANDSCAPE ARCHITECT
PETER K. LATTENDORF
2554
8.31.2017
09.12.2018
STATE OF CALIFORNIA

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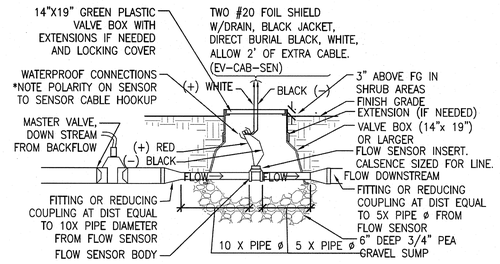
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE #: 43-R10
AC:
SSS:
FLS:
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Project No 1115-0130
Date: February 15, 2017
Sheet:

IRRIGATION REFERENCE

L4.06

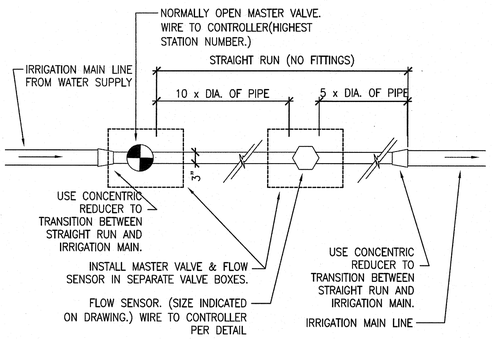
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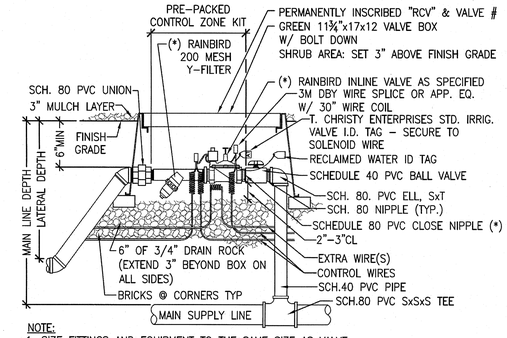
LASCO REDUCING COUPLINGS ARE AVAILABLE IN THE FOLLOWING SIZES AND PART NUMBERS:
429-585 8"x6"
429-532 6"x4"
429-422 4"x3"
429-338 3"x2"
429-251 2"x1 1/2"
429-212 1 1/2"x1 1/4"
429-168 1 1/4"x1"

MASTERVALVE/ FLOW SENSOR INSTALLATION DETAIL

NOTE:
1. FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) POSITIONED VERTICALLY AND BODY (TEE) POSITIONED HORIZONTALLY.
2. FLOW SENSOR CABLE MUST BE RUN IN 1" PVC CONDUIT FROM FLOW SENSOR TO CONTROLLER ENCLOSURE.
3. MANUFACTURE: CALSENSE MODEL: FM-2

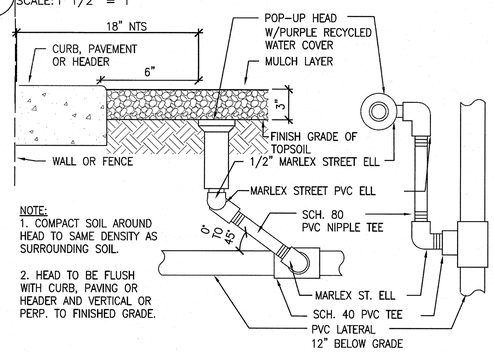


13 MASTER VALVE – FLOW SENSOR
SCALE: 3/4" = 1'



NOTE:
1. SIZE FITTINGS AND EQUIPMENT TO THE SAME SIZE AS VALVE.
2. TAPE THREADED FITTINGS WITH TEFLON TAPE.
3. COMPACT SOIL AROUND BOX TO 90% MIN.
4. MIN. FLOW RATE – 2.0 GPM, MAX. FLOW RATE – 20.0 GPM
5. (*) PARTS IN CONTROL ZONE KIT

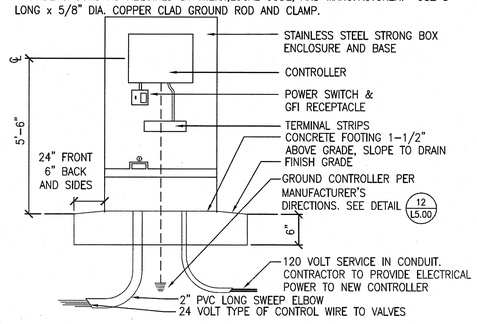
9 DRIP ZONE KIT
SCALE: 1 1/2" = 1'



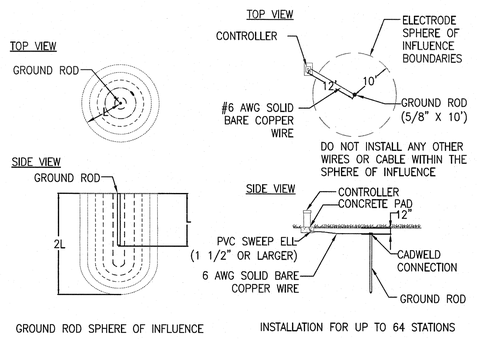
NOTE:
1. COMPACT SOIL AROUND HEAD TO SAME DENSITY AS SURROUNDING SOIL.
2. HEAD TO BE FLUSH WITH CURB, PAVING OR HEADER AND VERTICAL OR PERP. TO FINISHED GRADE.

10 POP-UP BUBBLER
SCALE: 3" = 1'

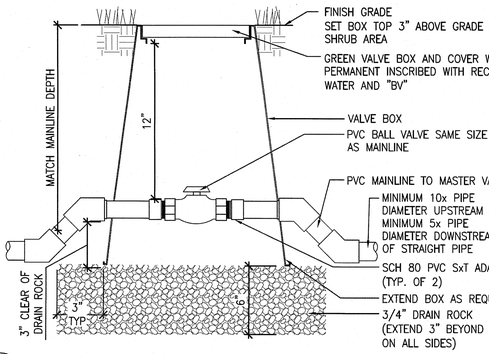
NOTE: SEE MANUAL FOR MOUNTING INSTRUCTIONS. ALL WIRING TO BE PER LOCAL CODE. PROVIDE GROUND AS REQUIRED BY N.E.C.,LOCAL CODE, AND MANUFACTURER. USE 8' LONG x 5/8" DIA. COPPER CLAD GROUND ROD AND CLAMP.



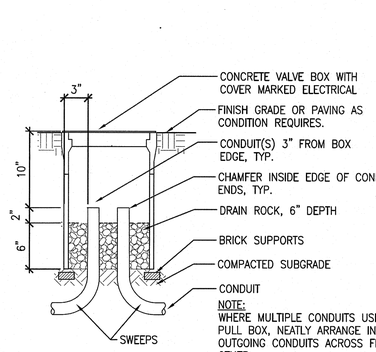
11 PEDESTAL MOUNT CONTROLLER
SCALE: 1" = 1'



12 GROUNDING ROD
SCALE: 3" = 1'

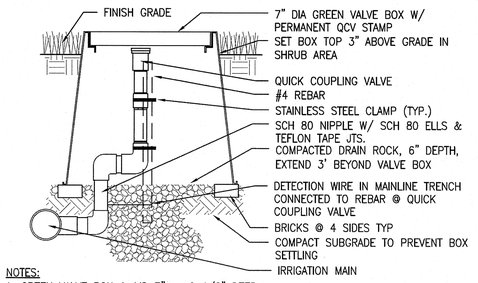


5 ISOLATION VALVE 2.0 INCH & SMALLER
SCALE: 3" = 1'



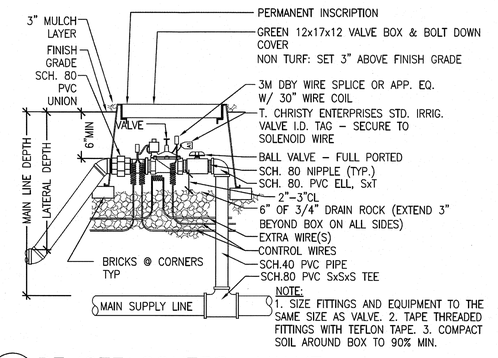
NOTE:
WHERE MULTIPLE CONDUITS USE COMMON PULL BOX, NEATLY ARRANGE INGOING AND OUTGOING CONDUITS ACROSS FROM EACH OTHER.

6 PULLBOX
SCALE: 1 1/2" = 1'



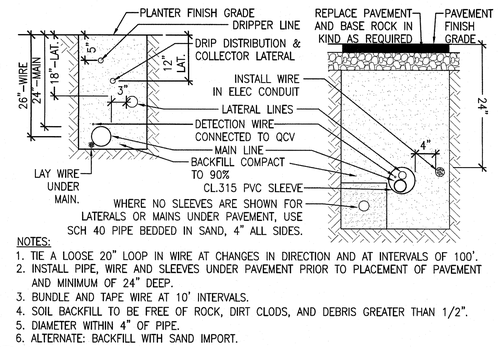
NOTES:
1. GREEN VALVE BOX & LID 7"ø x 9 1/2" DEEP
2. INSTALL TO PREVENT SETTLING
3. CENTER QCV IN BOX
4. POSITION QVC TO ALLOW CONVENIENT, ACCESSIBLE ACCESS TO QCV KEY & HOSE SWIVEL.

7 QUICK COUPLER VALVE
SCALE: 3" = 1'



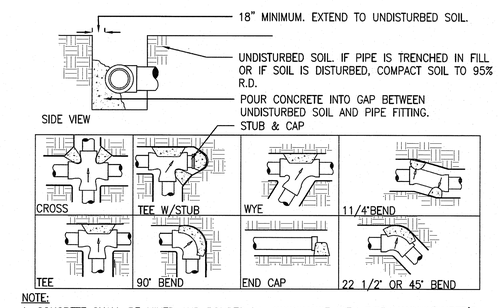
NOTE:
1. SIZE FITTINGS AND EQUIPMENT TO THE SAME SIZE AS VALVE. 2. TAPE THREADED FITTINGS WITH TEFLON TAPE. 3. COMPACT SOIL AROUND BOX TO 90% MIN.

8 REMOTE CONTROL VALVE
SCALE: 1 1/2" = 1'



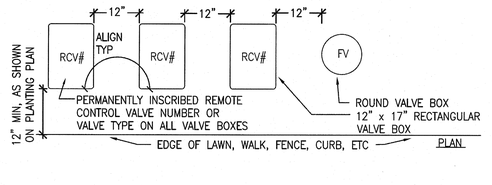
NOTES:
1. TIE A LOOSE 20" LOOP IN WIRE AT CHANGES IN DIRECTION AND AT INTERVALS OF 100'.
2. INSTALL PIPE, WIRE AND SLEEVES UNDER PAVEMENT PRIOR TO PLACEMENT OF PAVEMENT AND MINIMUM OF 24" DEEP.
3. BUNDLE AND TAPE WIRE AT 10' INTERVALS.
4. SOIL BACKFILL TO BE FREE OF ROCK, DIRT CLODS, AND DEBRIS GREATER THAN 1/2".
5. DIAMETER WITHIN 4" OF PIPE.
6. ALTERNATE: BACKFILL WITH SAND IMPORT.

1 TRENCH
SCALE: 1" = 1'



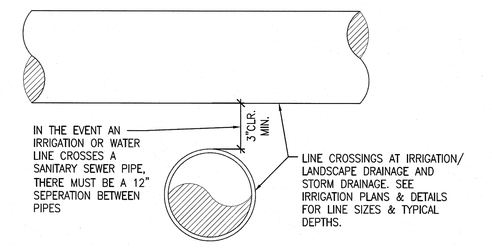
NOTE:
1. CONCRETE SHALL BE MIXED AND POURED IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDED STANDS AND SPECIFICATIONS FOR THRUST BLOCKS.
2. KEEP CONCRETE FROM POURING OVER FITTINGS ON TO PIPE.

2 THRUST BLOCK
SCALE: 3" = 1'



1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 3" ABOVE FINISH GRADE OF MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.
7. SEE PLANTING PLAN FOR VALVE BOX LOCATIONS. COORDINATE WITH PLANTING TYP.

3 VALVE BOX LAYOUT
SCALE: 3/4" = 1'



4 TYPICAL UTILITY CROSSING
SCALE: 3" = 1'

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LANDSCAPE ARCHITECT — 2554 — 8.31.2017 — 09.12.2018 — STATE OF CALIFORNIA

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Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: FLS: DATE: FEB 23 2017
IDENTIFICATION STAMP

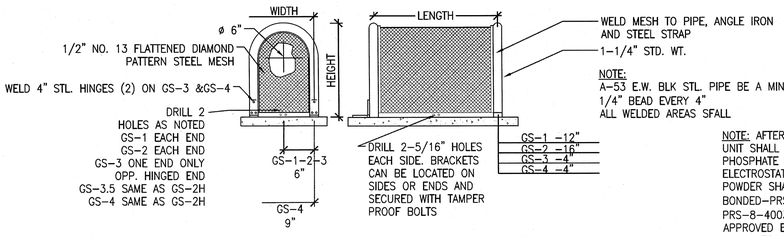
Project No 1115-0130
Date: February 15, 2017
Sheet:

IRRIGATION DETAILS

L5.00

PERMIT BACKCHECK

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NOTE: AFTER ALL WELDING, ENTIRE UNIT SHALL BE PROCESSED WITH IRON PHOSPHATE PRETREATMENT. ELECTROSTATIC APPLICATION OF POWDER SHALL BE FUSION BONDED-PRS-8-4004-C (BEIGE) OR PRS-8-4003-C (LEAF GREEN) OR APPROVED EQUAL.
ALL UNITS ALSO AVAILABLE IN 304 S.S. GS-3.5 AVAILABLE IN 304 S.S. ONLY.
ALL BOLTS FOR HINGES AND HASPS SHALL BE ZINC PLATED TAMPER PROOF, EXCEPTION-USE SS HARDWARE FOR SS UNITS.

NOTE:
SIZE ENCLOSURE TO FIT BACKFLOW PREVENTION DEVICE. ENSURE THAT ENCLOSURE WILL NOT IMPAIR ACCESS TO EQUIPMENT.
GS = POWDER COATED STEEL GUARD SHACK DARK GREEN

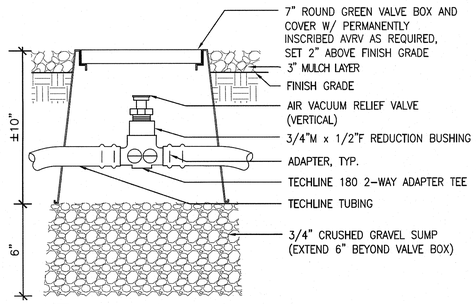
CGS = STAINLESS STEEL COAST GUARD SHACK W/ SAND BLASTED SATIN FINISH

GUARDSHACK 1/2"-2" BACKFLOW ASSEMBLY ENCLOSURES AVAILABLE FROM:
BACKFLOW PREVENTION DEVICE ENCLOSURES
15840 N. 32ND ST. SUITE 4
PHOENIX, ARIZONA 85032 (602) 788-5411

GAURDSHACK ENCLOSURES SUGGESTED ¾"-2" BACKFLOW ASSEMBLY SIZING CHART

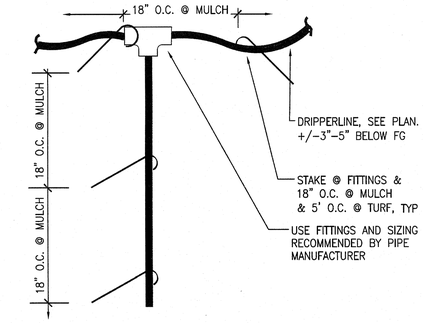
GUARDSHACK MODEL W/USABLE INTERNAL DIMENSIONS	WATTS/AMES		WATTS				FEBCO								WILKINS	
	009/4000B		U009A		909		825Y		825YA		860		880		975/975XL	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
GS-1 LIFT OFF 10Wx24Hx22L	¾"	19 ¼"	¾"	16 ½"			¾"	19 ½"	¾"-1"	10"	¾"	18 ¼"	¾"	14"	¾"	19 ½"
			1"	16 ½"			1"	20 ¾"	1 ½"	14 ¼"	1"	20 ½"	1"	16 ½"	1"	21"
			1 ½"	19 ⅞"					2"	14 ⅞"			1 ¼"	22"		
GS-2 LIFT OFF 10Wx24Hx30L	1"	24 ¾"	2"	24 ⅜"	¾"	24 ¾"	1 ¼"	24 ⅜"					1 ¼"	26 ⅜"	1 ½"	24 ½"	1 ¼"	27 ½"
	1 ¼"	28"			1"	25 ¼"	1 ½"	28 ¼"					1 ½"	28"	2"	25"	1 ½"	28 ¾"
GS-3 HINGED 10Wx24Hx40L	1 ½"	29 ⅜"			1 ¼"	31 ⅜"	2"	31"					2"	31"			2"	31 ¾"
	2"	34 ⅜"			1 ½"	33"										
GS-3.3 HINGED 16Wx30Hx30L	USE GS-3.3 ENCLOSURES TO PROTECT 2" AND SMALLER AIR/VACUUM RELIEF VALVES. ALSO EXTRA TALL RPS & PVBS															
	ALSO USE GS-3.3 ENCLOSURES TO PROTECT TWO OR MORE BACKFLOW ASSEMBLIES IN ONE ENCLOSURE															
GS-4 HINGED 16Wx30Hx46L					2"	36 ⅞"										
	ALSO USE GS-4 ENCLOSURES TO PROTECT TWO OR MORE BACKFLOW ASSEMBLIES IN ONE ENCLOSURE															
GS-4.5 HINGED CLAMSHELL	USE GS-4.5 ENCLOSURE TO PROTECT EXTRA LONG 2" RPS WITH STRAINERS, FILTERS, ETC.															
	ALSO USE GS-4.5 ENCLOSURES TO PROTECT 2-4 BACKFLOW ASSEMBLIES IN ONE ENCLOSURE															

7 GUARDSHACK BACKFLOW CAGE-.75 INCH TO 2 INCH
SCALE: 1" = 1'

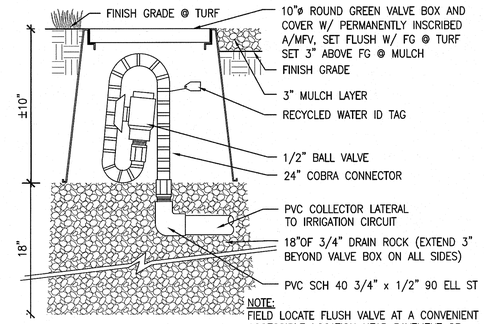


NOTE:
1. AVRV'S ILLUSTRATED IN DRAWING INDICATE INTENT ONLY.
2. INSTAL AVRV'S AT ALL HIGH POINTS IN CIRCUIT.

4 AIR VACUUM RELIEF VALVE
SCALE: 3" = 1'

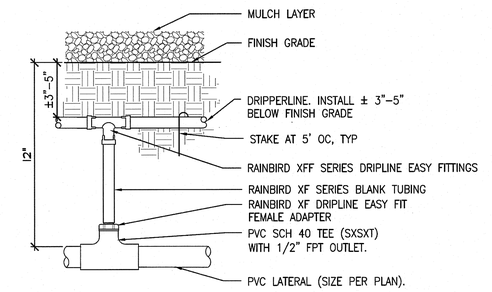


1 DRIP TO DRIP
SCALE: 3/8" = 1'



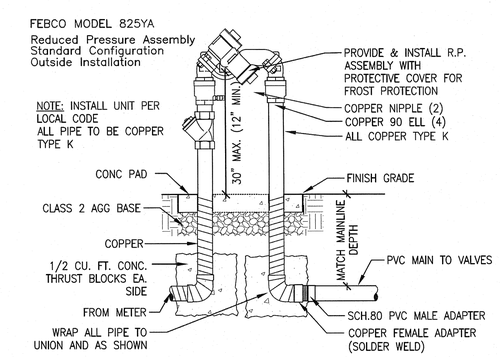
NOTE:
FIELD LOCATE FLUSH VALVE AT A CONVENIENT ACCESSIBLE LOCATION NEAR PAVEMENT OR PATH. EXTEND LATERAL AS NECESSARY.

5 AUTO - MANUAL FLUSH VALVE
SCALE: 3" = 1'

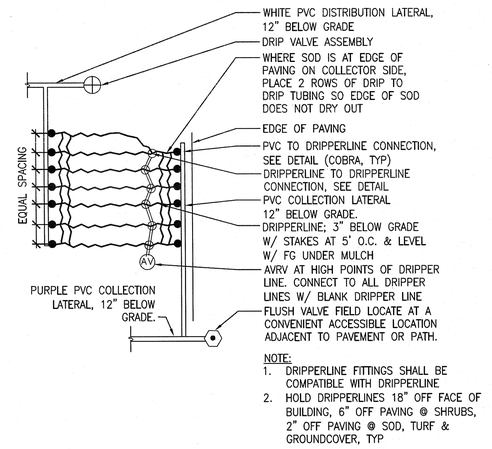


NOTE: DRIPPERLINE FITTINGS SHALL BE COMPATIBLE WITH DRIPPLERLINE PIPE.

2 PVC TO DRIP
SCALE: 3" = 1'



6 BACKFLOW PREVENTER
SCALE: 1" = 1'



NOTE:
1. DRIPPERLINE FITTINGS SHALL BE COMPATIBLE WITH DRIPPERLINE
2. HOLD DRIPPERLINES 18" OFF FACE OF BUILDING, 6" OFF PAVING @ SHRUBS, 2" OFF PAVING @ SOD, TURF & GROUNDCOVER, TYP

3 DRIP LAYOUT
SCALE: 3/4" = 1'

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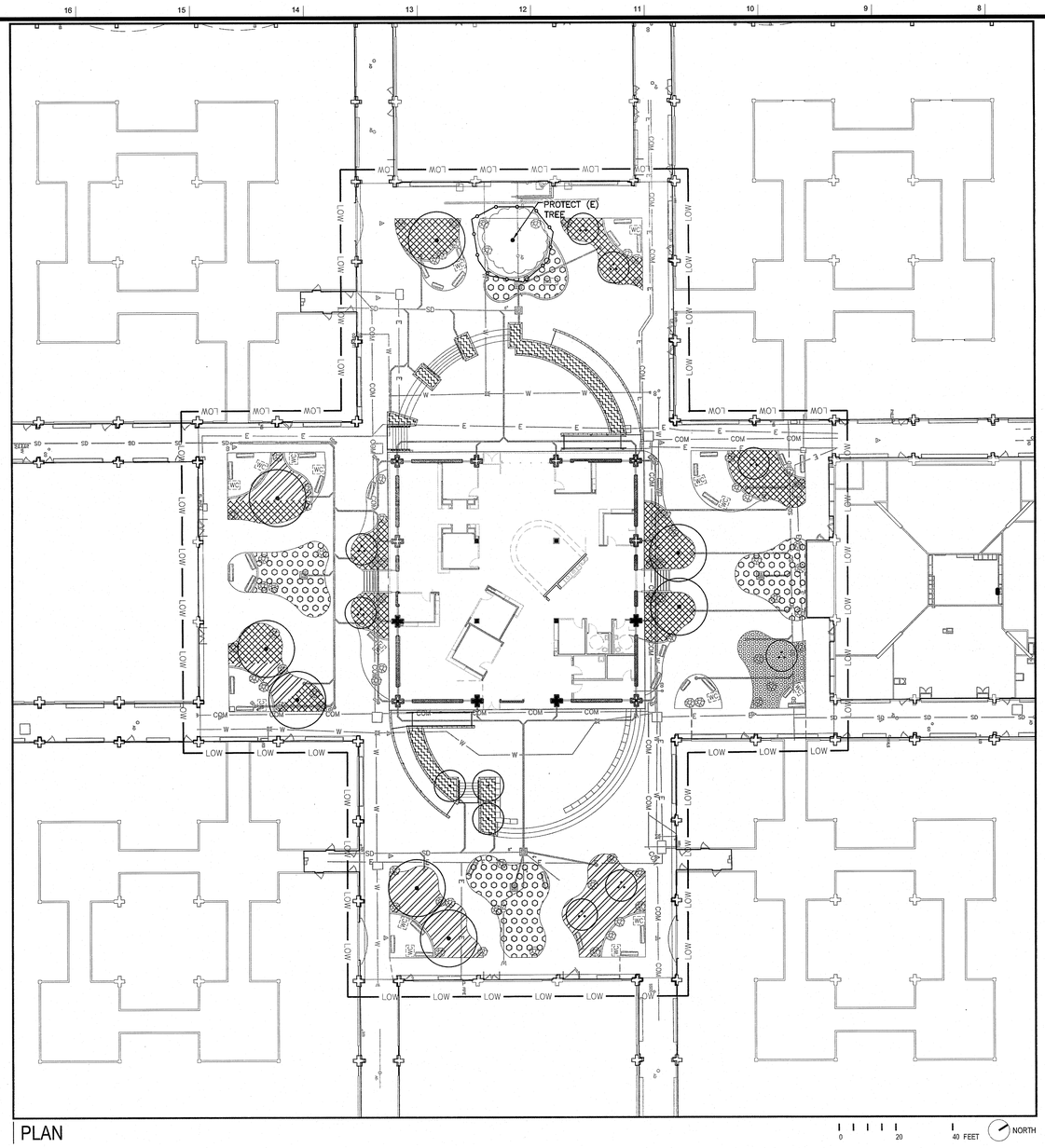
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

IRRIGATION DETAILS

L5.01

PERMIT BACKCHECK



PLAN

0 20 40 FEET NORTH

SOIL PREPARATION LEGEND

SYMBOL	DESCRIPTION
1	AMEND ON-SITE TOP SOIL (12" DEEP) (1 / L8.00)
2	IMPORT TOP SOIL WHERE PAVING IS DEMOLISHED (12" DEEP) (2 / L8.00)
3	IMPORT TOP SOIL FOR PLANTERS (36" DEEP) (2 / L8.00) SIM.
4	SUCCULENT SOIL (24" DEEP) (3 / L8.00)
5	BIO-FILTRATION SOIL, SEE CIVIL DWGS

811 Know what's below. Call 811 before you dig.

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DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

SOIL PREPARATION PLAN

L6.00

PERMIT BACKCHECK

PLANTING LEGEND

TREES

(6 / L8.00)

Count	KEY	BOTANICAL NAME	COMMON NAME	ORIGIN	SIZE	TRUNK	SPACING	WATER USE (WUCOLS 1)	NOTES
3	CS	CERCIS OCCIDENTALIS	WESTERN REDBUD	CA	24" BOX	STANDARD	AS SHOWN	VL	--
8	CO	CERCIS OCCIDENTALIS	WESTERN REDBUD	CA	24" BOX	MULTI-TRUNK	AS SHOWN	VL	--
9	OM	OLEA EUROPAEA 'MAJESTIC BEAUTY'	FRUITLESS OLIVE	MEDITERRANEAN	36" BOX	STANDARD	AS SHOWN	VL	--

SHRUBS AND GROUND COVER

(5 / L8.00) (7 / L8.00)

Count	KEY	BOTANICAL NAME	COMMON NAME	ORIGIN	SIZE	SPACING	WATER USE (WUCOLS 1)	NOTES
3	AA	AGAVE AMERICANA	CENTURY PLANT	MEXICO	15 GAL	5' OC	VL	15'-40' FLOWER STALK AFTER 10 YRS OR MORE
39	BF	BULBINE FRUTESCENS 'HALLMARK'	ORANGE STALKED BULBINE	SOUTH AFRICA	1 GAL	2' OC	L	--
9	CG	CEANOTHUS GRISEUS HORIZONTALIS	CARMEL CREEPER	CA	1 GAL	6' OC	L	--
13	CS	CEANOTHUS THYRSIFLORUS 'SKYLARK'	BLUE BLOSSOM	CA	1 GAL	4' OC	L	--
45	CE	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	SOUTH AFRICA	5 GAL	3'-6" OC	L	--
30	A	ECHEVERIA 'AFTERGLOW'	--	HYBRID	1 GAL	1'-0"	L	--
17	H	HESPERALOE PARVIFLORA	RED YUCCA	TEXAS, NEW MEXICO	5 GAL	2' OC	L	--
28	HA	HETEROMELES ARBUTIFOLIA	TOYON	CA COAST, SIERRA NEVADA FOOTHILLS, BAJA CA	1 GAL	4' OC	L	--
79	I	IRIS DOUGLASIANA	DOUGLAS IRIS	CA TO OREGON	1 GAL	2' OC	L	--
129	P	JUNCUS PATENS 'ELK BLUE'	CALIFORNIA GRAY RUSH	CA, OR	5 GAL	1'-6" OC	L	--
8	KN	KNIPHOFIA NORTHIAE	TORCH LILY	SOUTH AFRICA	5 GAL	4' OC	L	--
27	K	KNIPHOFIA UVARIA	TORCH LILY	AFRICA SOUTH	1 GAL	2' OC	L	--
51	LI	LEYMUS TRITICOIDES	CREEPING WILD RYE	CA TO BRITISH COLUMBIA	5 GAL	2' OC	L	--
35	L	LOMANDRA LONGIFOLIA BREEZE	DWARF MAT RUSH	AUSTRALIA	1 GAL	2' OC	L	--
31	MA	MIMULUS AURANTIACUS 'RUTILUS'	MONKEY FLOWER	CA, WEST	5 GAL	3' OC	VL	--
47	M	MIMULUS CARDINALIS	SCARLET MONKEY FLOWER	CA, WEST WET LOCATIONS	5 GAL	2' OC	L	--
40	MC	MUHLENBERGIA CAPILLARIS	PINK MUHLY	EASTERN US	5 GAL	4' OC	L	CUT BACK FINISHED FOILAGE IN LATE WINTER, BEFORE NEW GROWTH EMERGES
38	MR	MUHLENBERGIA RIGENS	DEER GRASS	CA, TX, MEXICO	5 GAL	3' OC	L	--
13	PM	PHORMIUM 'MAORI QUEEN'	FLAX	NEW ZEALAND	5 GAL	4' OC	L	--
40	RV	RIBES VIBURNIFOLIUM	CATALINA PERFUME	CATALINA ISLAND	5 GAL	4' OC	L	--
15	Z	ZAUSCHNERIA CALIFORNICA	CALIFORNIA FUCHSIA	CA, OR	1 GAL	2' OC	L	--

BARK MULCH PER SPECS

PLANTING NOTES

1. PLANT MATERIAL QUANTITIES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO ORDER.
2. SUBSTITUTIONS OF PLANT MATERIAL, SPECIES AND/OR VARIETIES ARE NOT PERMITTED.
3. SUBMIT PLANT LIST SHOWING QUANTITIES AND AVAILABILITY OF PLANT MATERIAL WITHIN 30 DAYS OF NOTICE TO PROCEED.
4. ALL PLANT MATERIAL SHALL CONFORM TO THE ANSI Z601 "STANDARD FOR NURSERY STOCK".
5. AMEND SOILS PER SOIL TEST RECOMMENDATIONS, SEE SPECIFICATIONS.
6. APPLY A THREE INCH (3") LAYER OF DOUBLE GRIND MULCH IN ALL NON-TURF AND NON-GRASS/PLUG AREAS AND TREE/SHRUB BASINS. KEEP BARK SIX INCHES (6") AWAY FROM TREE CROWNS.
7. PLACE PLANTS IN PROPOSED LOCATIONS FOR REVIEW AND ACCEPTANCE BY THE PROJECT MANAGER PRIOR TO ACTUAL PLANTING. NOTIFY THE PROJECT MANAGER A MINIMUM OF 48 HOURS PRIOR.
8. ALL LANDSCAPED AREAS SHALL BE MAINTAINED IN A HEALTHY AND WEED-FREE CONDITION. DEAD PLANT MATERIAL SHALL BE REPLACED IMMEDIATELY. ALL TREES SHALL BE MAINTAINED AND PRUNED IN ACCORDANCE TO THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
9. INSTALL PLANT MATERIAL PER SPECIFICATIONS.
10. NOTIFY PROJECT MANGER 48 HOURS PRIOR TO PLANT DELIVERY. ALL PLANTS TO BE REVIEWED AND ACCEPTED PRIOR TO PLANTING.
11. ALL PLANTS LISTED ABOVE TO BE INSTALLED BY CONTRACTOR.
12. POT HOLE ALL TREE PLANTING LOCATIONS TO IDENTIFY CONFLICTS UNDERGROUND UTILITIES BEFORE TREE PLANTING.
13. WHERE POSSIBLE LOCATE TREES AT LEAST 5' FROM EDGE OF WALKS, PAVING, AND UNDERGROUND UTILITIES. ADJUST LOCATION IN FIELD AS REQUIRED AND AS APPROVED BY LANDSCAPE ARCHITECT.
14. SEE CIVIL DRAWINGS, ELECTRICAL DRAWINGS AND LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATION OF UTILITIES.
15. SLOPE PLANTING AREAS TO DRAIN.
16. ALL PLANTERS SHALL HAVE A FILTER FABRIC TO PREVENT WEEDS AND LIMIT CAT ACCESS TO DIRT, SEE DISTRICT STANDARDS.

TREE PRESERVATION AND PROTECTION NOTES

1. PRE-CONSTRUCTION MEETING:
   IT IS IMPORTANT THAT CONSTRUCTION CREWS UNDERSTAND TREE PROTECTION REQUIREMENTS. PERSONNEL WORKING ON-SITE SHOULD BE PROVIDED WITH AN ORIENTATION TO TREE PRESERVATION MEASURES AND MONITORING FOR TREE PRESERVATION.
2. APPRAISED VALUE:
   A. IF A TREE IS DAMAGED, A CERTIFIED ARBORIST DETERMINES THE TREE APPRAISAL VALUE BY ADJUSTING THE TREE'S BASIC VALUE BY ITS CONDITION, LOCATION AND SPECIES USING THE MOST RECENT EDITION OF THE GUIDE FOR PLANT APPRAISAL. THE FORMULA USED SHOULD BE NOTED.
   B. REFER TO THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS, CURRENT EDITION, GUIDE FOR PLANT APPRAISAL, CHAMPAING, IL: INTERNATIONAL SOCIETY OF ARBORICULTURE.
3. TREE PROTECTION ZONE (TPZ):
   EACH TREE TO BE PROTECTED SHALL HAVE A DESIGNATED TPZ IDENTIFYING THE AREA SUFFICIENTLY LARGE ENOUGH TO PROTECT THE TREE, ROOTS AND SOIL FROM DISTURBANCE. THE TPZ IS DEFINED AS THE AREA UNDER THE TREE CANOPY AND EXTENDING TO 1'-0" PAST THE DRIPLINE OF THE TREE. FOR EXAMPLE, A TREE WITH A CANOPY 25' WIDE IN DIAMETER WOULD HAVE A TPZ OF 27' WIDE. ANY DEVIATION IN DETERMINING THE TPZ WILL REQUIRE APPROVAL BY THE CONSTRUCTION MANAGER.
4. PROTECTIVE TREE FENCING FOR TREES:
   FENCED ENCLOSURES SHALL BE ERECTED AROUND TREES TO BE PROTECTED TO ESTABLISH THE TPZ IN WHICH NO SOIL OR ROOT DISTURBANCE IS PERMITTED AND ACTIVITIES ARE RESTRICTED. MAINTAIN TPZ FREE OF WEEDS AND TRASH.
   A. SIZE AND TYPE OF FENCE: ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH A 6' HIGH, MINIMUM 12 GAUGE CHAIN LINK FENCE. MOUNT FENCES ON 2-INCH DIAMETER GALVANIZED STEEL POSTS MOUNTED ON SUPPORT FEET.
   B. DURATION: TREE FENCING SHALL BE ERECTED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS AND SHALL REMAIN IN PLACE THROUGH CONSTRUCTION.
   C. TREE PROTECTION SIGN: A WARNING SIGN SHALL BE PROMINENTLY DISPLAYED ON EACH FENCE. SIGN SHALL NOT BE LESS THAN 12" X 12" AND SHALL READ: "TREE PROTECTION FENCE. DO NOT REMOVE OR RELOCATE WITHOUT AUTHORIZATION."
   D. PLACEMENT: TREE PROTECTION FENCE SHALL BE LOCATED 1'-0" OUTSIDE THE TREE DRIPLINE OR AS OTHERWISE SHOWN ON PLAN. A TREE PROTECTION FENCE LOCATED WITHIN THE TPZ SHALL NOT EXEMPT THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE TPZ FOR THE ENTIRE LIMITS OF THE TPZ.
   E. TEMPORARY REMOVAL OR RELOCATION: RELOCATION OR REMOVAL FOR CONSTRUCTION REQUIRES AUTHORIZATION AND IS PERMITTED ONLY AS REQUIRED FOR CONSTRUCTION. FENCE MUST BE RESTORED TO ORIGINAL LOCATION AS SOON AS PRACTICAL AS CONSTRUCTION ACTIVITIES PERMIT.
5. ACTIVITIES PROHIBITED WITHIN THE TPZ INCLUDE:
   A. STORAGE OF PARKED VEHICLES, BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS OR DUMPING OF POISONOUS MATERIALS, INCLUDING BUT NOT LIMITED TO PAINT, PETROLEUM PRODUCTS, CONCRETE, STUCCO MIX OR DIRTY WATER
   B. THE USE OF TREE TRUNKS AS A WINCH SUPPORT, ANCHORAGE, AS A TEMPORARY POWER POLE, SIGN POSTS OR OTHER SIMILAR FUNCTION
   C. CUTTING OF TREE ROOTS BY UTILITY TRENCHING, FOUNDATION DIGGING, PLACEMENT OF CURBS AND TRENCHES AND OTHER MISCELLANEOUS EXCAVATION
   D. SOIL DISTURBANCE, SOIL COMPACTION OR GRADE CHANGES
   E. DRAINAGE CHANGES
   F. FIRES
6. ACTIVITIES PERMITTED OR REQUIRED WITHIN THE TPZ INCLUDE:
   A. MULCHING - DURING CONSTRUCTION, IT IS RECOMMENDED THAT WOOD CHIPS OR SIMILAR MATERIAL BE SPREAD WITHIN THE TPZ TO A 2-INCH DEPTH, LEAVING THE TRUNK CLEAR OF MULCH.
   B. ROOT BUFFER - WHEN AREAS WITHIN THE TPZ CANNOT BE FENCED, A ROOT BUFFER IS REQUIRED AND SHALL COVER THE ROOT ZONE.
   C. IRRIGATION, AERATION, FERTILIZING OR OTHER BENEFICIAL PRACTICES THAT HAVE BEEN SPECIFICALLY APPROVED FOR USE BY THE LANDSCAPE ARCHITECT WITHIN THE TPZ.
   D. EXISTING IRRIGATION IS TO BE MAINTAINED AND OPERATED 100% DURING CONSTRUCTION. SEE IRRIGATION PLANS.
7. EROSION CONTROL
   IF A TREE IS ADJACENT TO OR IN THE IMMEDIATE PROXIMITY TO A GRADE SLOPE OF 8% (23 DEGREES) OR MORE, THEN APPROVED EROSION CONTROL OR SILT BARRIERS SHALL BE INSTALLED OUTSIDE THE TPZ TO PREVENT SILTATION AND/OR EROSION WITHIN THE TPZ.
8. TUNNELING AND DIRECTIONAL DRILLING
   IF TRENCHING OR PIPE INSTALLATION HAS BEEN APPROVED WITHIN THE TPZ, THEN THE TRENCH SHALL BE EITHER CUT BY HAND, AIR SPADE OR BY MECHANICALLY BORING THE TUNNEL UNDER THE ROOTS WITH A HORIZONTAL DIRECTIONAL DRILL AND HYDRAULIC OR PNEUMATIC AIR EXCAVATION TECHNOLOGY. IN ALL CASES, INSTALL THE UTILITY PIPE, IMMEDIATELY BACKFILL WITH SOIL AND SOAK WITHIN THE SAME DAY.
9. TREE PRUNING AND SURGERY
   A. ROOT PRUNING: ROOT PROTECTION MEASURES MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. NECESSARY ROOT PRUNING IS BEST ACCOMPLISHED PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES WHEN EXCAVATION EQUIPMENT WILL BE USED. AFTER BEING EXPOSED BY HAND OR AIR EXCAVATION, ROOTS ARE PRUNED UNDER ARBORIST SUPERVISION. CONSTRUCTION ACTIVITIES ARE THEN FREE TO OCCUR OUTSIDE OF THE ROOT PRUNING BOUNDARY.
   B. UNDER ARBORIST SUPERVISION, REDUCE CROWN BY SAME AMOUNT TO COMPENSATE FOR ROOT LOSS
   C. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS. CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF UTILITIES. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
   D. MONITOR HEALTH OF TREES DURING CONSTRUCTION.
10. TREE REMOVAL PROCEDURE
    TREES MAY ONLY BE REMOVED IF SPECIFICALLY NOTED ON PLAN OR APPROVED FOR REMOVAL BY THE OWNER. WHEN TREES ARE REMOVED, TREE REMOVAL PRACTICES APPLY:
    A. ANY TREE TO BE REMOVED THAT MAY IMPACT A PROTECTED TREE SHALL BE DONE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.
    B. THE REMOVAL OF TREES THAT EXTEND INTO THE BRANCHES OR ROOTS OF PROTECTED TREES SHALL NOT BE ATTEMPTED BY DEMOLITION OR CONSTRUCTION PERSONNEL. GRADING OR OTHER HEAVY EQUIPMENT. A CERTIFIED ARBORIST OR CERTIFIED TREE WORKER SHALL REMOVE OR OVERSEE THE REMOVAL OF THE TREE IN A MANNER THAT CAUSES NO DAMAGE ABOVE OR BELOW GROUND TO TREES THAT SHALL REMAIN.
11. SUPPLEMENTAL IRRIGATION:
    PROVIDE SUPPLEMENTAL IRRIGATION, AS REQUIRED, BASED ON THE LEVEL OF ROOT LOSS, SOIL CONDITIONS, TREE HEALTH AND TIME OF YEAR.

TITLE 23 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

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LICENSED LANDSCAPE ARCHITECT
CHRISTOPHER V. LAY
2534
8.31.2017
10.12.2016
STATE OF CALIFORNIA

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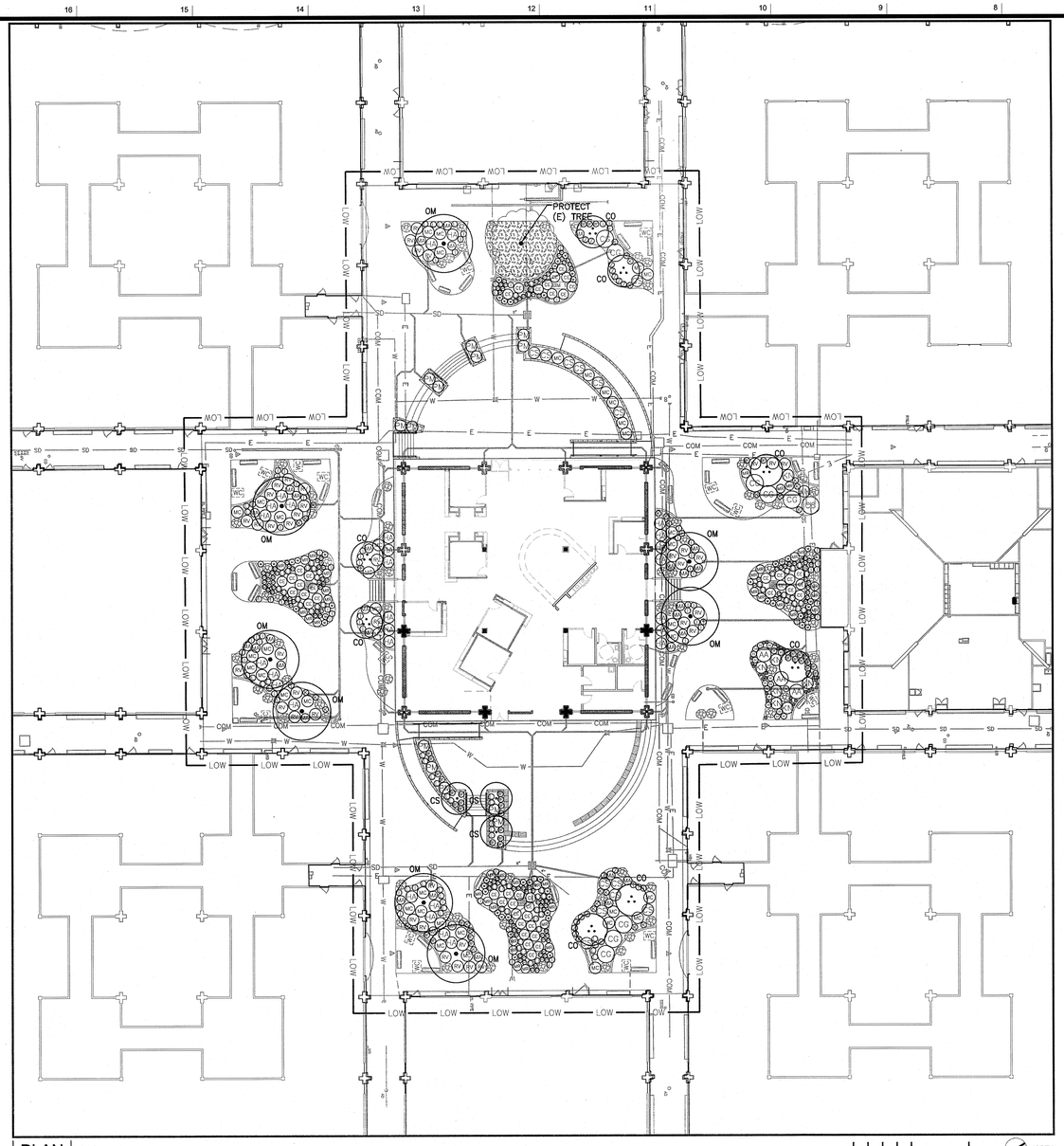
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APPLICATION # : 01-116168
FILE #: 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
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Project No	1115-0130
Date:	February 15, 2017
Sheet:	

PLANTING LEGEND

L7.00

PERMIT BACKCHECK



PLAN | NOTE: SEE SHEET L7.00 FOR LEGEND AND NOTES

0 20 40 FEET NORTH

TITLE 23 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
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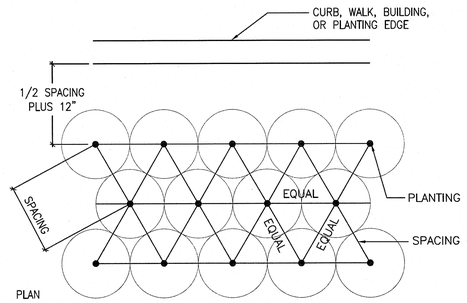
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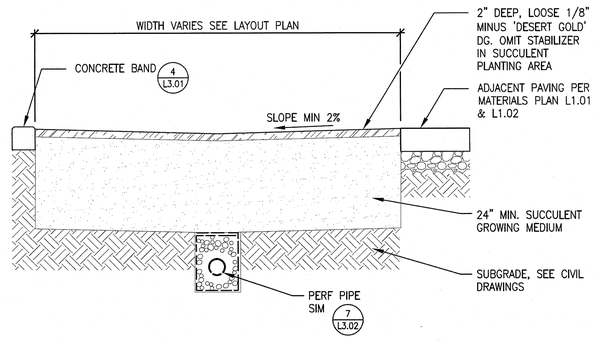
PLANTING PLAN

L7.01

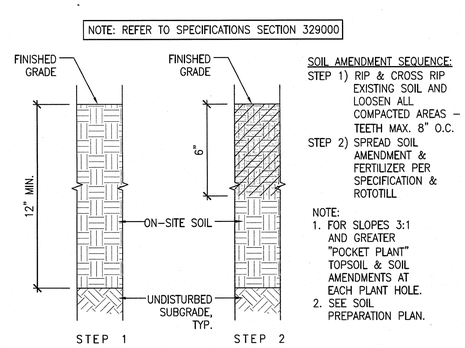
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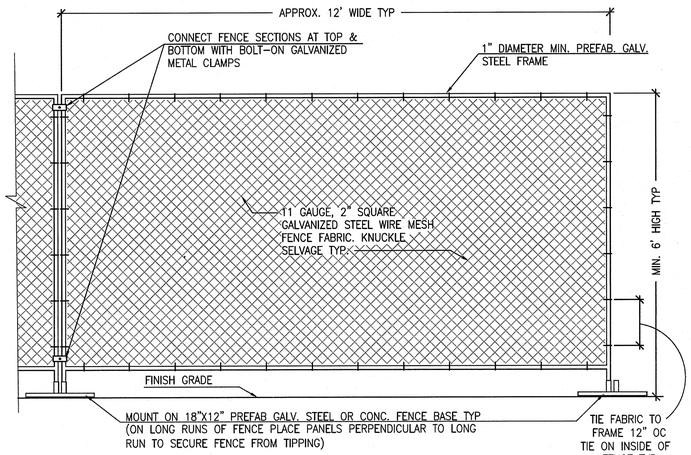
7 GROUND COVER
SCALE: 3/4" = 1'



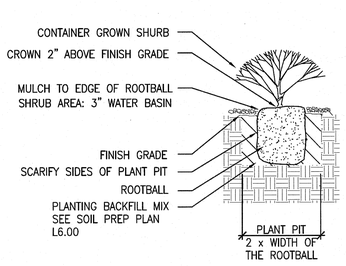
4 SUCCULENT GARDEN PLANTING
SCALE: 3/4" = 1'



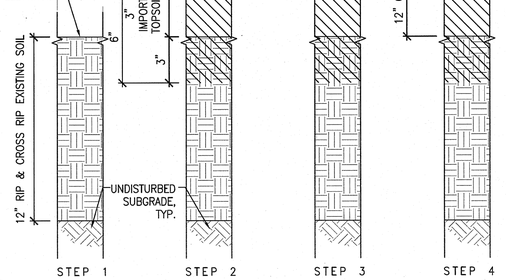
1 SOIL AMENDMENT ON-SITE
SCALE: 3" = 1'



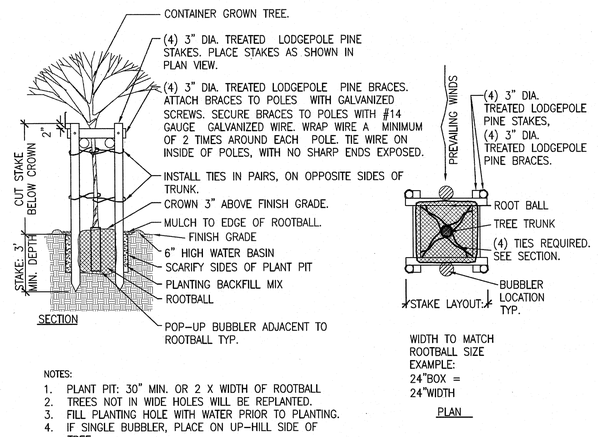
8 TEMPORARY TREE PROTECTION FENCE
SCALE: 3/4" = 1'



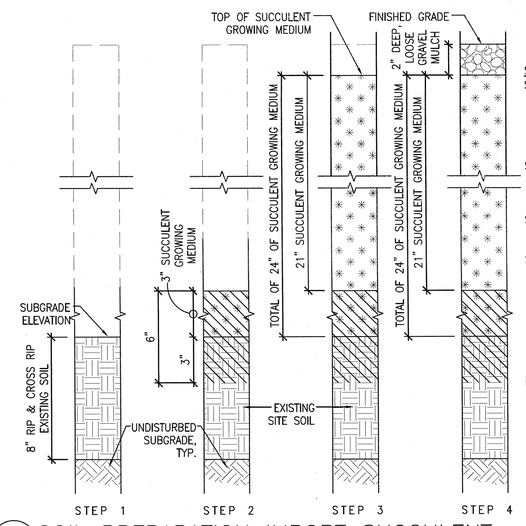
5 SHRUB PLANTING
SCALE: 1" = 1'



2 SOIL AMENDMENT IMPORT
SCALE: 3" = 1'



6 TREE PLANTING – 4 STAKE
SCALE: 1/2" = 1'



3 SOIL PREPARATION IMPORT SUCCULENT
SCALE: 3" = 1'

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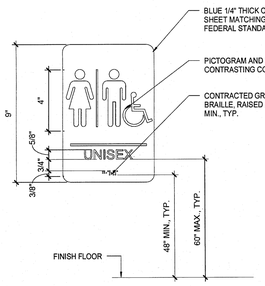
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FILE # : 43010
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PLANTING DETAILS

L8.00

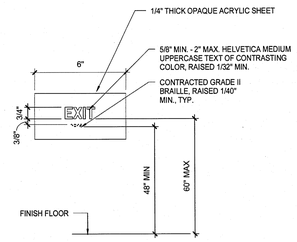
PERMIT BACKCHECK



NOTES:
1. INSTALL SIGN AT EXTERIOR SIDE OF RESTROOM DOOR.

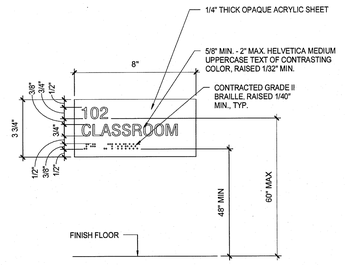
UNISEX RESTROOM ACCESSIBILITY SIGNAGE | 1

3" = 1'-0"



EXIT SIGNAGE | 2

3" = 1'-0"

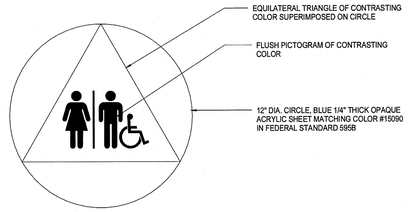


ROOM INDENTIFICATION SIGNAGE | 3

3" = 1'-0"

Specialty Equipment Notes:

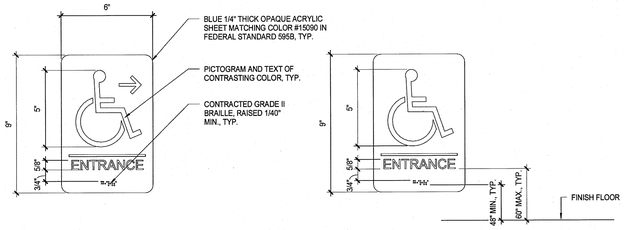
1. THIS PROJECT WILL COMPLY WITH ALL AMERICAN WITH DISABILITIES REGULATIONS AND ALL LOCAL ACCESSIBILITY CODE REQUIREMENTS.
2. ALL MOUNTING HEIGHTS ARE TO COMPLY WITH ICC/ANSI-A117.1 REFER TO FIXTURE HEIGHT GUIDELINES FOR TYPICAL MOUNTING HEIGHTS. COORDINATE WITH OWNER/ARCHITECT FOR ANY ITEMS IN CONFLICT OR NOT EXPLICITLY INDICATED.
3. PROVIDE WOOD BLOCKING AT ALL EQUIPMENT FIXTURES, AND ACCESSORIES INCLUDED OWNER PROVIDED ITEMS WHETHER OR NOT SUCH BLOCKING IS NOTED OR SPECIFIED.
4. ACCESSORIES SHOWN ARE GENERIC. REFER TO SCHEDULE SPECIFIED MODEL.
5. FIXTURES ACCESSORIES SHOWN ARE GENERIC. REFER TO PLUMBING DRAWINGS FOR SCHEDULED FIXTURES.



NOTE: INSTALL SIGN AT EXTERIOR SIDE OF RESTROOM DOOR.

RESTROOM DOOR ACCESSIBILITY SIGNAGE - UNISEX | 4

3" = 1'-0"



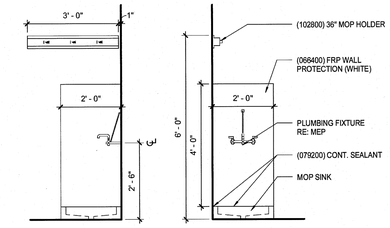
ACCESSIBLE BUILDING ENTRANCE DIRECTIONAL SIGN

ACCESSIBLE BUILDING ENTRANCE SIGN

NOTES:
1. INSTALL SIGN AT EXTERIOR SIDE OF RESTROOM DOOR.
2. VERIFY ARROW DIRECTION WITH ACCESSIBLE ROUTE.

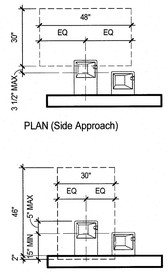
ACCESSIBLE ENTRANCE SIGNAGE | 5

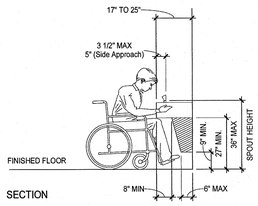
3" = 1'-0"



Typical Custodial Closet | G1

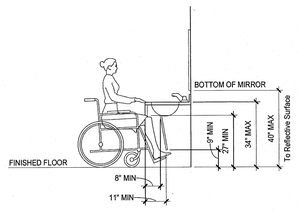
1/2" = 1'-0"





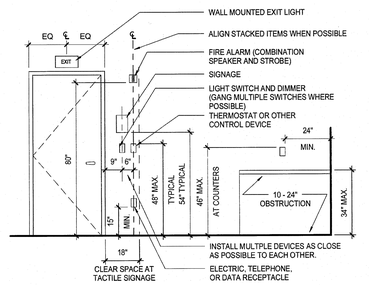
Drinking Fountain Guidelines | D9

3/8" = 1'-0"



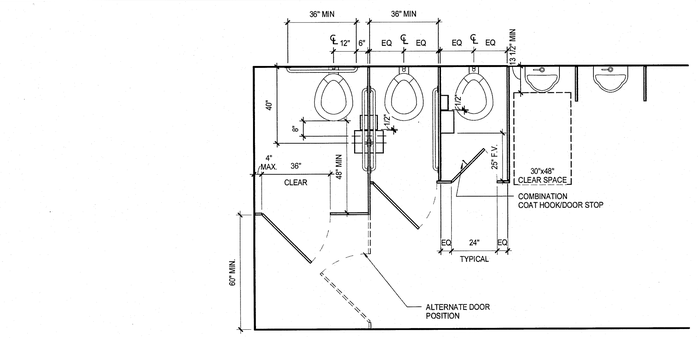
Lavatory Guidelines | D5

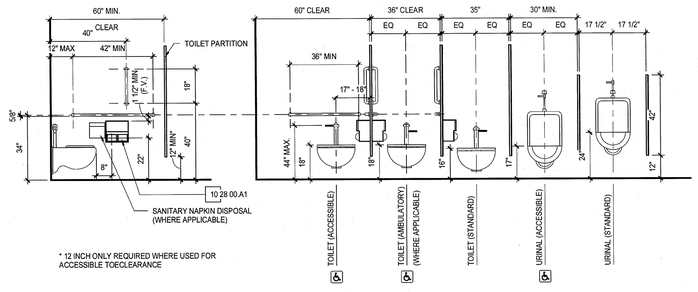
3/8" = 1'-0"



Miscellaneous Heights | D1

3/8" = 1'-0"

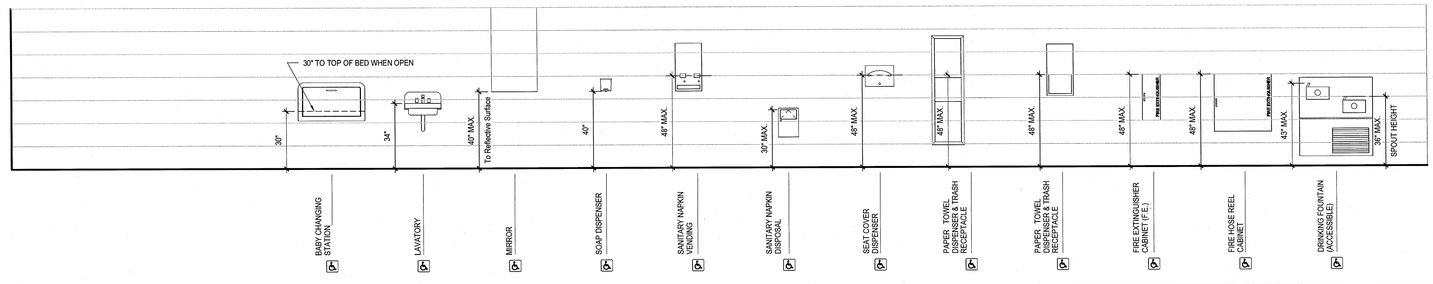




* 12 INCH ONLY REQUIRED WHERE USED FOR ACCESSIBLE TOECLEARANCE

Toilet Fixutre Standards | A11

3/8" = 1'-0"



Fixture Height Guidelines | A1

3/8" = 1'-0"

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civil engineer:
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Redwood City CA 94065
United States
650.482.6335 voice
650.619.9031 fax

landscape architect:
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555 Beach Street
San Francisco CA 94133
United States
415.447.5214 voice

construction manager:
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LICENSED ARCHITECT ROBERT MARK BANNISTER C-22017 STATE OF CALIFORNIA

Number	Revision Description	Date

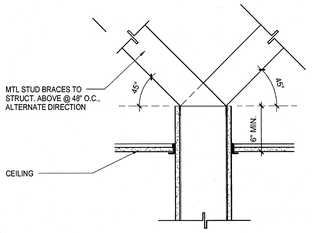
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

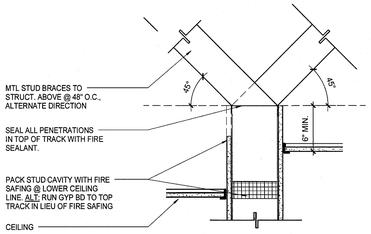
Project No 1115-0130
Date: February 15, 2017
Sheet:

Project Standards

A002

PERMIT BACKCHECK

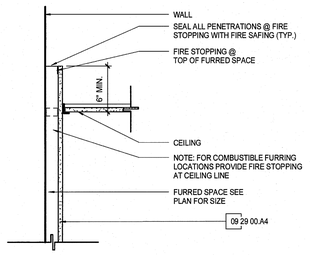




CEILING OF VARYING HEIGHT ((NON-COMBUSTIBLE WALL))

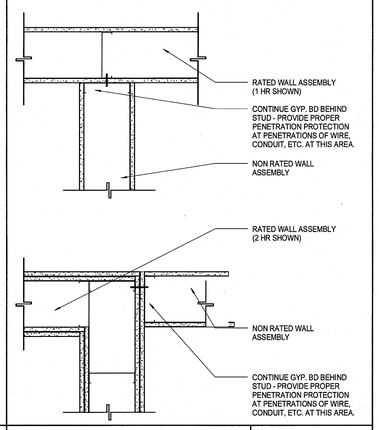
Non-rated Partition 6" Above Ceiling — L13

1 1/2" = 1'-0"



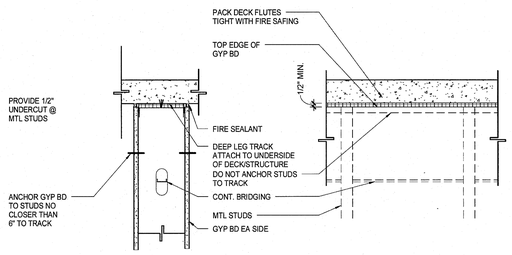
Top of Furring Wall — G16

1 1/2" = 1'-0"



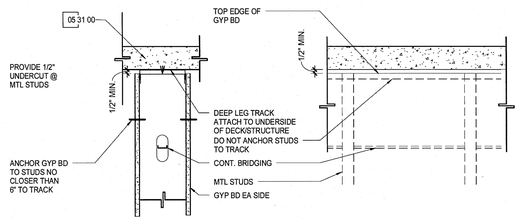
Wall Intersections — G13

1 1/2" = 1'-0"



Rated Partition to Underside of Deck — D13

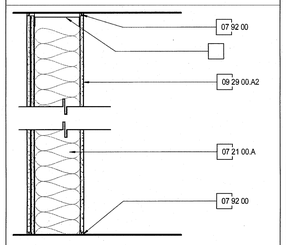
1 1/2" = 1'-0"



Non-rated Partition to Underside of Deck — A13

1 1/2" = 1'-0"

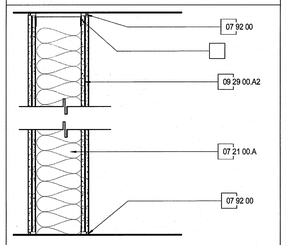
NOTES:
1) CONFIRM STUD SPACING WITH STRUCT.
2) PROVIDE MOISTURE RESISTANT GWB IN WET AREAS.
3) EXTEND ALL FIRE RATED WALLS STRUCTURE TO STRUCTURE.
4) USE TYPE "X" GWB FOR ALL FIRE RATED PARTITIONS



PARTITION SYSTEM: GYPSUM WALL BOARD PARTITION **G**

PARTITION IDENTIFICATION PLAN SYMBOL	G4a	G6	G6a	G6.1
BASIC PARTITION THICKNESS	5 1/8"	7 1/2"	7 1/2"	7 1/2"
STUD SPACING (O.C.)*	16"	16"	16"	16"
STUD SIZE	3 5/8"	6"	6"	6"
GWB THICKNESS	1/2"	1/2"	1/2"	1/2" X
INSULATION THICKNESS	-	-	-	-
ACOUSTICAL RATING (STC)	-	-	-	-
ACOUSTICAL TEST NUMBER	-	-	-	-
ACOUSTICAL JOINTS	-	-	-	-
RESILIENT CHANNELS	-	-	-	-
FIRE RATING (HRS)	-	-	-	1 HR
FIRE TEST NUMBER	-	-	-	U419
FIRE RESISTIVE JOINTS	NO	NO	NO	YES
STUDS TO STRUCTURE ABOVE	YES	YES	YES	YES
GWB TO STRUCTURE	YES	YES	YES	YES
STUDS TO 6" ABOVE CEILING	NO	NO	NO	NO
BEARING WALL	NO	NO	NO	NO
GAUGE	16	16	16	16
REMARKS				

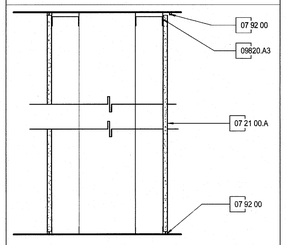
NOTES:
1) CONFIRM STUD SPACING WITH STRUCT.
2) PROVIDE MOISTURE RESISTANT GWB IN WET AREAS.
3) EXTEND ALL FIRE RATED WALLS STRUCTURE TO STRUCTURE.
4) USE TYPE "X" GWB FOR ALL FIRE RATED PARTITIONS



PARTITION SYSTEM: GYPSUM WALL BOARD PARTITION **H**

PARTITION IDENTIFICATION PLAN SYMBOL	H4a	H6a
BASIC PARTITION THICKNESS	5 5/8"	8"
STUD SPACING (O.C.)*	16"	16"
STUD SIZE	3 5/8"	6"
GWB THICKNESS	1/2"	1/2"
INSULATION THICKNESS	-	-
ACOUSTICAL RATING (STC)	-	-
ACOUSTICAL TEST NUMBER	-	-
ACOUSTICAL JOINTS	-	-
RESILIENT CHANNELS	-	-
FIRE RATING (HRS)	-	-
FIRE TEST NUMBER	-	-
FIRE RESISTIVE JOINTS	NO	NO
STUDS TO STRUCTURE ABOVE	YES	YES
GWB TO STRUCTURE	YES	YES
STUDS TO 6" ABOVE CEILING	NO	NO
BEARING WALL	NO	NO
GAUGE	16	16
REMARKS		

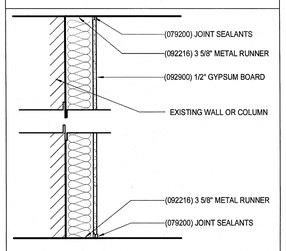
NOTES:
1) CONFIRM STUD SPACING WITH STRUCT.
2) PROVIDE MOISTURE RESISTANT GWB IN WET AREAS.
3) EXTEND ALL FIRE RATED WALLS STRUCTURE TO STRUCTURE.
4) USE TYPE "X" GWB FOR ALL FIRE RATED PARTITIONS



PARTITION SYSTEM: GYPSUM WALL BOARD PARTITION **J**

PARTITION IDENTIFICATION PLAN SYMBOL	J6
BASIC PARTITION THICKNESS	19 1/2"
STUD SPACING (O.C.)*	16"
STUD SIZE	3 5/8"
GWB THICKNESS	5/8"
AIR GAP	11"
INSULATION THICKNESS	-
ACOUSTICAL RATING (STC)	-
ACOUSTICAL TEST NUMBER	-
ACOUSTICAL JOINTS	-
RESILIENT CHANNELS	-
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE RESISTIVE JOINTS	NO
STUDS TO STRUCTURE ABOVE	YES
GWB TO STRUCTURE	YES
STUDS TO 6" ABOVE CEILING	NO
BEARING WALL	NO
GAUGE	16
REMARKS	

NOTES:
1) CONFIRM STUD SPACING WITH STRUCT.

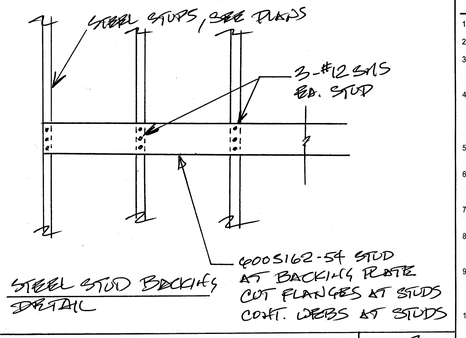


PARTITION SYSTEM: GYPSUM FURRING PARTITION **F**

PARTITION IDENTIFICATION PLAN SYMBOL	F4
BASIC PARTITION THICKNESS	4 1/8"
STUD SPACING (O.C.)	16"
STUD SIZE	3 5/8"
GWB THICKNESS	1/2"
INSULATION THICKNESS	N/A
ACOUSTICAL RATING (STC)	N/A
ACOUSTICAL TEST NUMBER	N/A
ACOUSTICAL JOINTS	N/A
RESILIENT CHANNELS	N/A
FIRE RATING (HRS)	N/A
FIRE TEST NUMBER	N/A
FIRE RESISTIVE JOINTS	NO
STUDS TO STRUCTURE ABOVE	NO
GWB TO STRUCTURE	NO
STUDS TO 6" ABOVE CEILING	YES
ACOUSTICAL RATING (STC)	N/A
ACOUSTICAL TEST NUMBER	N/A
ACOUSTICAL JOINTS	N/A
	20
REMARKS	

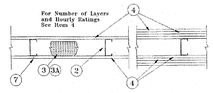
Interior Partition Types — A3

1 1/2" = 1'-0"



Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets*** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJQ) Categories** for names of Classified companies.
- 3A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJQ) Categories** for names of Classified companies.
4. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5.
CANADIAN GYPSUM COMPANY —Type FRX
UNITED STATES GYPSUM CO —Type FRX

4B. **Gypsum Board*** — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY — Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V — Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.
7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. **Caulking and Sealants*** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO —Type AS

*Bearing the UL Classification Mark

U.L. #U419 — 1

1 : 1

General Notes:

1. REFER TO PLANS/CODE PLANS FOR PARTITION TYPE LOCATIONS.
2. PARTITION TYPES DESIGNATED ON PLANS SHALL RUN FROM CORNER TO CORNER UNLESS OTHERWISE NOTED.
3. FIRE-RESISTANCE-RATED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REFERENCED ASSEMBLY DESCRIPTION. REFER TO CODE PLANS FOR MORE INFORMATION.
4. FIRE-RATED WALLS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH SIGNAGE SHOULD BE ABOVE ACCESSIBLE CEILINGS AND/OR BELOW ACCESSIBLE FLOORS.
5. WHERE DIFFERENT PARTITION TYPES INTERSECT, THE PARTITION TYPE WITH THE GREATER FIRE-RESISTANCE RATING SHALL CONTINUE WITHOUT INTERRUPTION.
6. PENETRATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRE-RATED PENETRATION PROTECTION IN ACCORDANCE WITH AN APPROVED UNDERWRITERS LABORATORY SYSTEM.
7. FIRE DAMPERS OR FIRE DOORS SHALL BE PROVIDED WHERE AIR DUCTS OR OPENINGS PENETRATE FIRE-RATED PARTITIONS.
8. AT ALL WET AREAS AND LOCATIONS TO RECEIVE TILE, COORDINATE THE SUBSTRATE MATERIAL WITH PROJECT MANUAL. EXTEND THE SUBSTRATE A MINIMUM OF 4'-0" BEYOND THE WET AREA.
9. USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS, CONDUIT, JUNCTION BOXES, ETC. ON BOTH SIDES OF CROSSING / PENETRATING WALLS WITH ACOUSTICAL RATINGS. COLOR MATCH SEALANT TO THE ADJACENT WALL COLOR.
10. PROVIDE IMPACT RESISTANT TRIM OR CASING AT ALL EDGES OF PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE
11. PROVIDE IMPACT RESISTANT CORNER BEADS AT ALL OUTSIDE CORNERS OF PLASTER AND GYPSUM BOARD SURFACES, UNLESS NOTED OTHERWISE.
12. CONTRACTOR TO PROVIDE WOOD BLOCKING BEHIND ALL TOILET ROOM ACCESSORIES, GRAB BARS, HANDRAILS, WOOD TRIM, AND WALL MOUNTED FIXTURES.

Gypsum Board Schedule

5/8" GYPSUM BOARD	ALL LOCATIONS UNLESS NOTED BELOW OR DETAILED OTHERWISE.
5/8" ABUSE RESISTANT GYPSUM BOARD	HIGH TRAFFIC AREAS SUCH AS LOBBIES, PUBLIC CORRIDORS AND WORK ROOMS SUCH AS: JANITOR, HOUSEKEEPING, MECHANICAL, ETC.
5/8" WATER RESISTANT GYPSUM BOARD	"WET WALLS" NON-RATED WITH PLUMBING FIXTURES, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, ETC.
5/8" GLASS MAT, BACKING BOARDS	"WET WALLS" RATED WITH PLUMBING FIXTURES, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, ETC.
1/2" FIBER CEMENT BACKING PANELS	WALLS EXPOSED DIRECTLY TO RUNNING WATER AND SCHEDULED TO RECEIVE TILE. BATHTUBS, SHOWERS, ETC.

Interior Partition Naming Convention



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structural engineer:
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Oakland CA 94612
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510-834-1629 ext. 102 voice
510-836-1629 fax

mechanical, plumbing engineer:
Capital Engineering
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Rancho Cordova CA 95670
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961.851.3500 voice

electrical engineer:
The Engineering Enterprise
1305 Marina Village Parkway
Alameda CA 94501
United States
510.263.1531 voice

civil engineer:
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Redwood City CA 94065
United States
650.482.6335 voice
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construction manager:
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408-660-4400 voice

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LICENSED ARCHITECT — ROBERT MARK NAGY — No. C-17317 — STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: WD DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

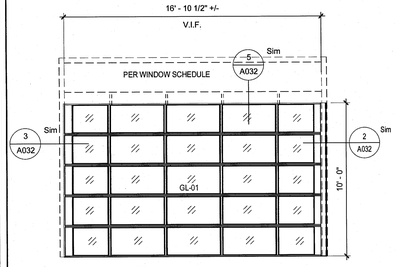
Interior Partition Types, Fire Rated Assemblies

A020

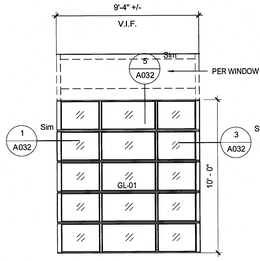
PERMIT BACKCHECK

Door Schedule

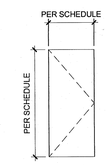
VD	Assembly: Room From:	Assembly: Room To:	Assembly: Door Type	Assembly: Fire Rating	Assembly: Hardware Set	Door: Size Width	Door: Size Height	Door: Size Thickness	Door: Material	Door: Finish	Frame: Type	Frame: Material	Frame: Finish	Comments
LEVEL 1														
01	01	14	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.1	AL		SOLID CORE DOORS
02	14	02	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.3	AL		SOLID CORE DOORS
03	03	14	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.2	AL		SOLID CORE DOORS
04	04	09	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.1	AL		SOLID CORE DOORS
05	06	14	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.1	AL		SOLID CORE DOORS
06	14	05	FG.1	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.1	AL		SOLID CORE DOORS
07	12	07	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.2	AL		SOLID CORE DOORS
08	08	12	FG.3	NR	HW.2	3' - 0"	7' - 0"	1 3/4"	GL-01/WOOD	CLR	B.2	AL		NOT USED
09	14	17	F	NR	HW.3	3' - 0"	7' - 0"	1 3/4"	HM	CLR	A	HM	PT.1	SOLID CORE DOORS
10	14	19	F	1HR	HW.4	3' - 0"	7' - 0"	1 3/4"	HM	CLR	A	HM	PT.1	1 HR RATED
11	12	16	F	NR	HW.1	3' - 0"	7' - 0"	1 3/4"	HM	CLR	A	HM	PT.1	
12	12	15	F	NR	HW.1	3' - 0"	7' - 0"	1 3/4"	HM	CLR	A	HM	PT.1	
13	19	18	F	1HR	HW.4	3' - 0"	7' - 0"	1 3/4"	HM	CLR	A	HM	PT.1	1 HR RATED
100	14		FG.2	NR	HW.5	6' - 0"	7' - 0"	1 3/4"	AL	CLR	B	AL	PT.2	PANIC HARDWARE
101		14	FG.2	NR	HW.5	6' - 0"	7' - 0"	1 3/4"	AL	CLR	B	AL	PT.2	PANIC HARDWARE
102		14	OS.1	NR	GARAGE	16' - 10 1/2"	12' - 0"	2"	GL	PT	-	AL	BLACK	BLACK FINISH PER MANUFACTURER
103	14		OS.2	NR	GARAGE	9' - 4"	12' - 0"	2"	GL	PT	-	AL	BLACK	BLACK FINISH PER MANUFACTURER



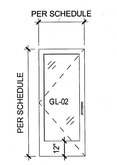
OS.1 OVERHEAD SECTIONAL DOOR



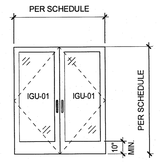
OS.2 OVERHEAD SECTIONAL DOOR



F



FG.1



FG.2

DOOR TYPES 1

1/4" = 1'-0"

General Door Notes:

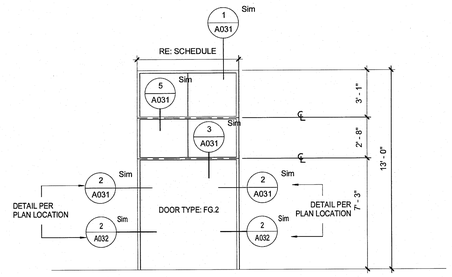
1. THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
2. EDGE CLEARANCES IN ACCORDANCE WITH AW QUALITY STANDARDS.
3. DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
4. PROVIDE BLOCKING AT ALL WALL MOUNTED DOOR STOPS.
5. GLAZING STOPS IN WOOD DOORS: SAME SPECIES AS DOOR FACE, MITERED CORNERS, CONCEALED FASTENERS.
6. FACTORY FINISH WOOD DOORS.

Door Legend:

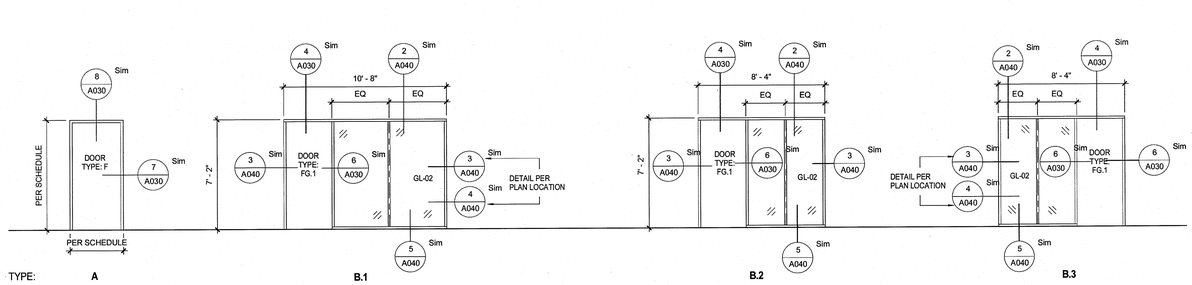
AL	ALUMINUM
CA	CARD ACCESS DEVICE
CL	CLOSER
FRP	FIBERGLASS
GL	GLASS
HC	HOLLOW CORE
HM	HOLLOW METAL
L	LOUVER
PF	PRE-FINISHED/FACTORY FINISHED
PH	PANIC HARDWARE
PR	PAIR
PTD	PAINTED
SD	SMOKE & DRAFT CONTROL
SS	STAINLESS STEEL
STL	STEEL
T	TEMPERED GLASS
V	VISION
WD	WOOD

Glazing Schedule - Basic

Mark	Description
GL-01	1/2" LAMINATED GLASS
GL-02	3/8 LAMINATED GLASS
IGU-01	1" INSULATED GLASS



B



TYPE: A B.1 B.2 B.3

EXTERIOR DOOR FRAME TYPES 2

1/4" = 1'-0"

INTERIOR DOOR FRAME TYPES 3

1/4" = 1'-0"

Hardware Schedule

HW-1 : TOILET
SINGLE/ NON- RATED/ PRIVACY LOCK

HINGES
1 KEYED PRIVACY INDICATOR LOCK
1 CLOSER
1 KICK PLATE
1 MOP PLATE (@ INSWING DOORS)
1 FLOOR STOP
2 SET SELF-ADHESIVE SEALS
1 COAT HOOK
QUANTITY & TYPE AS REQUIRED
F13 x OCCUPANCY INDICATOR
C02011/C02021
J102
J103
L02121 x 3 FASTENERS
R0Y154
L03121

HW-2 : OFFICE
SINGLE/ NON- RATED/ OFFICE LOCK

HINGES
1 OFFICE LOCK
1 FLOOR STOP
1 SET SELF-ADHESIVE SEALS
1 COAT HOOK
QUANTITY & TYPE AS REQUIRED
F04
L02121 x 3 FASTENERS
R0Y154
L03121

HW-3 : PREP/STORAGE, WET AND DRY UTILITY
SINGLE/ NON-RATED/ UTILITY LOCK

HINGES
1 UTILITY LOCK
1 FLOOR STOP
1 ARMOR PLATE
1 EDGE GUARD (@ WOOD DOORS)
1 SETS SELF-ADHESIVE SEALS
QUANTITY & TYPE AS REQUIRED
F09
L02121 x 3 FASTENERS
J101 x 3.175 MM (0.125 INCH) THICKNESS
J208M / J211 (VERIFY), CUT: HARDWARE
R0Y154

HW-4 : ELECT
SINGLE/ NON-RATED/ STOREROOM LOCK

POCKET PIVOT/HINGE
1 STOREROOM LOCK
1 LATCH PROTECTOR (OUTSWING DR)
1 CLOSER
1 OVERHEAD HOLDER
1 THRESHOLD (OUTSWING DOOR)
1 DOOR SWEEP
1 SET FRAME SEALS
1 DRIP
IVES 91105F POCKET PIVOT
F13-MOD x RIGID OUTSIDE LEVER x KEY RETRACTS DEADBOLT AND LATCHBOLT
C02011/C02021
C01511-ADJUSTABLE
J32120 x SILICONE GASKET
R0Y416
R0Y164
R0Y976

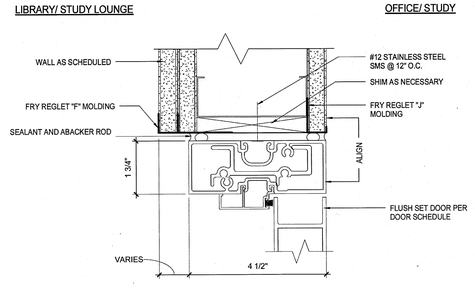
HW-5 : ENTRY DOOR - EXIT ONLY
DOUBLE/ NON-RATED/ MEDIUM STILE
ALUMINUM FRAMED GLASS DOOR

1 CONTINUOUS HINGE
1 EXIT DEVICE
1 CYLINDER
1 ANTI-VANDAL PULL
1 OVERHEAD STOP
1 DOOR CLOSER
1 THRESHOLD
1 DOOR SWEEP
1 RAIN DRIP

MCK-12HD (MCKINNEY) OR EQUAL
TYPE 4 FC3
TYPE AS REQUIRED
1097HA (TRIMCO) OR EQUAL
C01541-ADJUSTABLE
C02011/C02021 (PTD4, PT4F, PT4H)
J35130 X SILICONE GASKET
9010ONBI(PEMKO), OR EQUAL
R0Y976

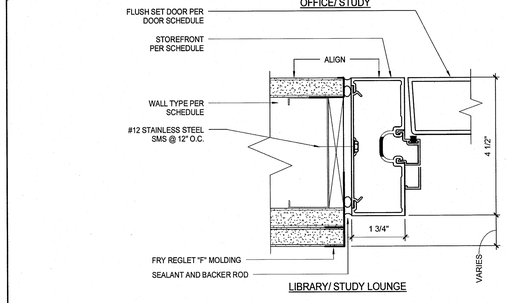
Hardware Schedule

1/4" = 1'-0"



INT. STOREFRONT DOOR HEAD 4

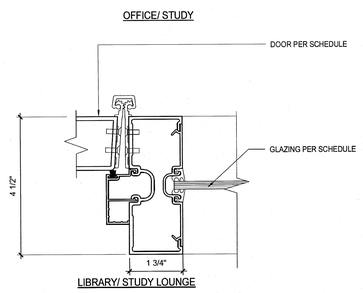
6" = 1'-0" 3 / A030



LIBRARY/ STUDY LOUNGE

INT. STOREFRONT DOOR JAMB 5

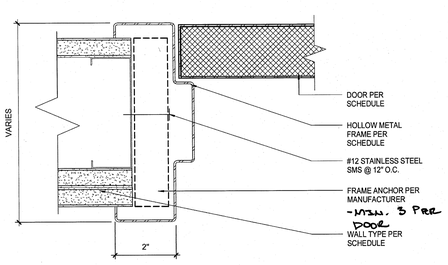
6" = 1'-0"



LIBRARY/ STUDY LOUNGE

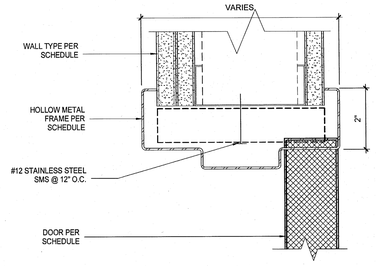
INT. STOREFRONT DOOR JAMB @ WINDOW 6

6" = 1'-0" 3 / A030



INT. METAL DOOR JAMB 7

6" = 1'-0" 3 / A030



INT. METAL DOOR HEAD 8

6" = 1'-0" 3 / A030

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LICENSED ARCHITECT ROBERT MARK BACH 17477 STATE OF CALIFORNIA

Number	Revision Description	Date

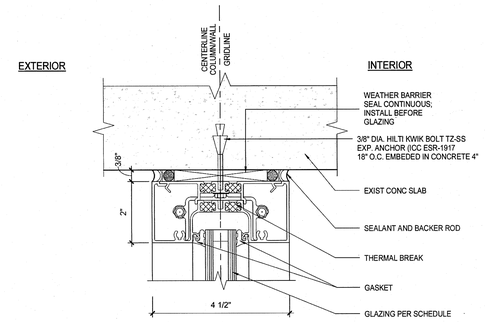
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 10H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Door Schedule, Types & Details

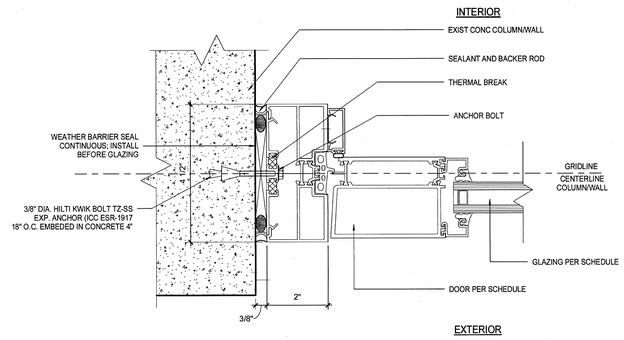
A030

PERMIT BACKCHECK



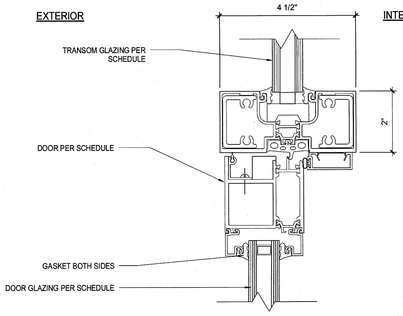
EXT. HEADER @ TRANSORM | 1

6" = 1'-0" | 2 / A030



EXT DOOR JAMB | 2

6" = 1'-0" | 2 / A030



EXT DOOR HEADER @ TRANSORM | 3

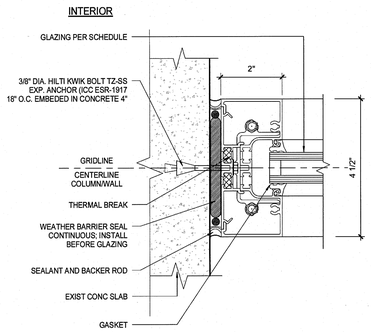
6" = 1'-0" | 2 / A030

General Door Notes:

1. THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
2. EDGE CLEARANCES IN ACCORDANCE WITH AWI QUALITY STANDARDS.
3. DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
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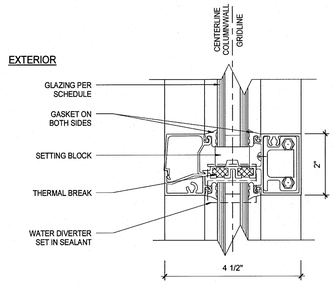
Door Legend:

AL	ALUMINUM
CA	CARD ACCESS DEVICE
CL	CLOSER
FRP	FIBERGLASS
GL	GLASS
HC	HOLLOW CORE
HM	HOLLOW METAL
L	LOUVER
PF	PRE-FINISHED/FACTORY FINISHED
PH	PANIC HARDWARE
PR	PAIR
PTD	PAINTED
SD	SMOKE & DRAFT CONTROL
SS	STAINLESS STEEL
STL	STEEL
T	TEMPERED GLASS
V	VISION
WD	WOOD



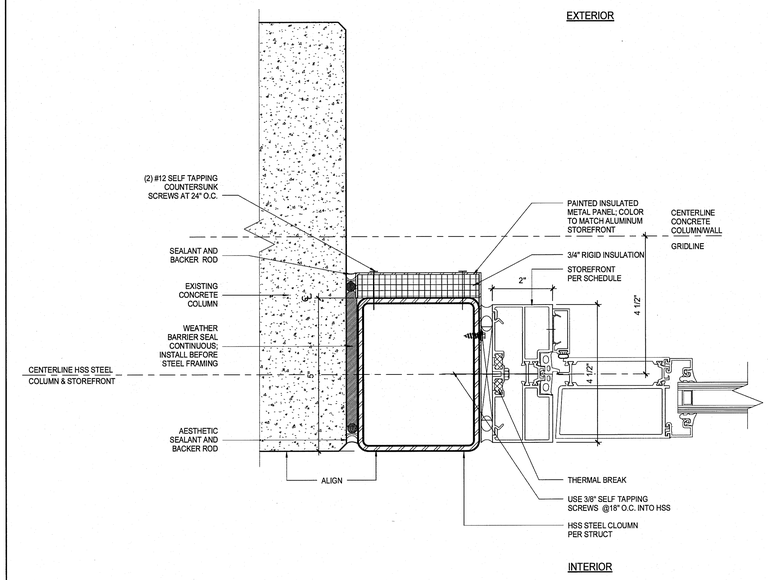
EXT. JAMB @ TRANSORM | 4

6" = 1'-0" | 1 / A040



EXT WINDOW MULLION SECTION | 5

6" = 1'-0" | 2 / A030



EXT DOOR @ STEEL COLUMN | 6

6" = 1'-0" | 1 / A101

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Rancho Cordova CA 95670
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electrical engineer:
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510.263.1531 voice

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Number	Revision Description	Date

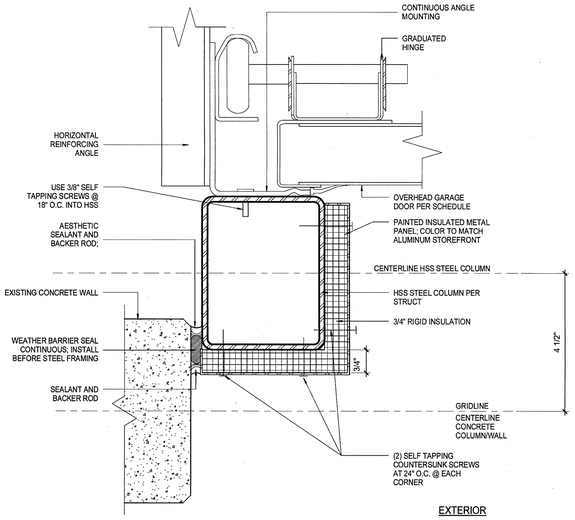
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: | FLS:
SSS: | DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Door Details

A031

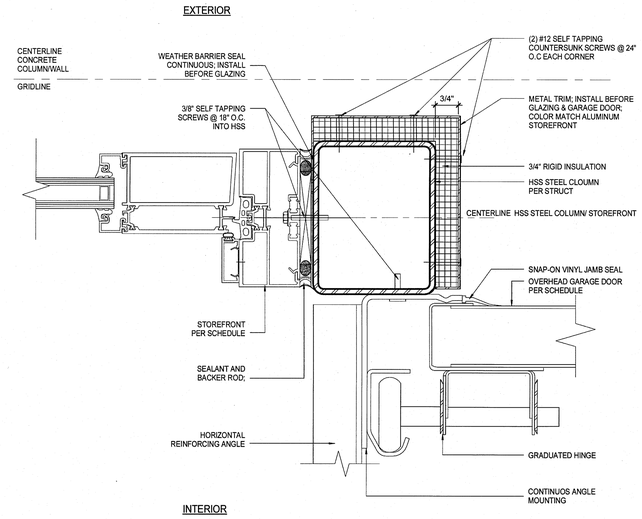
PERMIT BACKCHECK



NOTE:
1. SCREWS SHOULD BE EQUALLY SPACED FROM CORNER, TYP.

EXT GARAGE DOOR AT CONC. WALL — 1

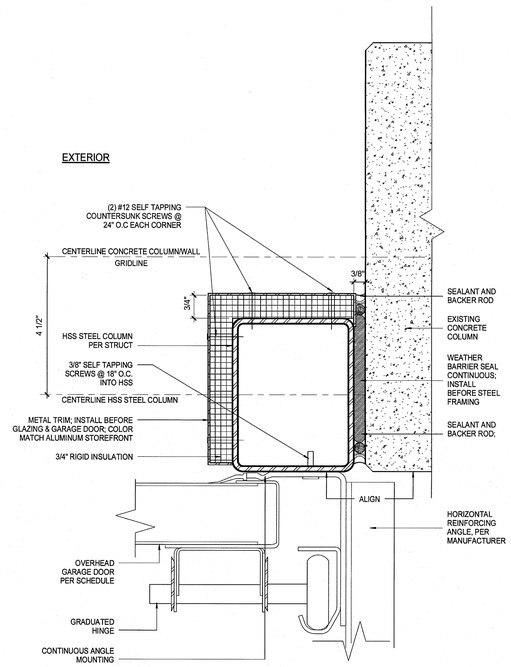
6" = 1'-0" | 66 / A030



NOTE:
1. SCREWS SHOULD BE EQUALLY SPACED FROM CORNER, TYP.

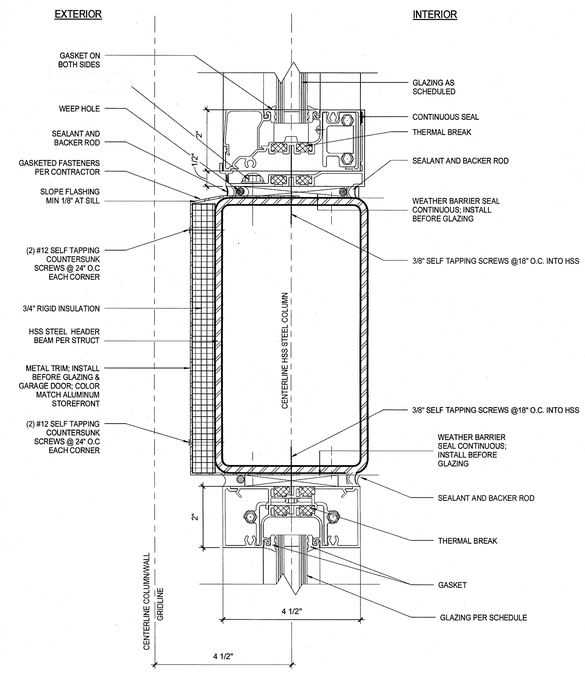
EXT DOOR TO GARAGE DOOR JAMB — 2

6" = 1'-0" | 2 / A030



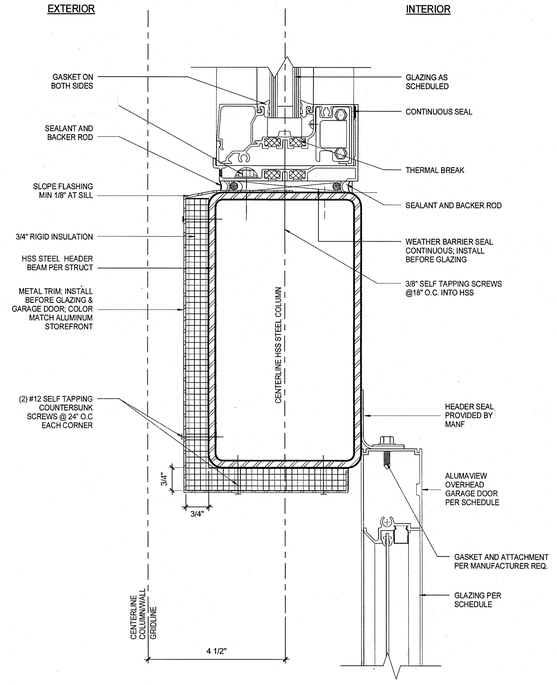
EXT. GARAGE DOOR JAMB @ COLUMN — 3

6" = 1'-0" | 11 / A030



EXT. GARAGE DOOR HEAD @ TRANSORM — 4

6" = 1'-0" | 1 / A040



EXT. GARAGE DOOR HEAD — 5

6" = 1'-0" | 11 / A030

General Door Notes:

1. THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
2. EDGE CLEARANCES IN ACCORDANCE WITH AWI QUALITY STANDARDS.
3. DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
4. PROVIDE BLOCKING AT ALL WALL MOUNTED DOOR STOPS.
5. GLAZING STOPS IN WOOD DOORS: SAME SPECIES AS DOOR FACE. MITERED CORNERS, CONCEALED FASTENERS.
6. FACTORY FINISH WOOD DOORS.

General Door Notes:

1. ALL EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE LABELED "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." THIS SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE, MANUALLY OPERATED. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED.
2. THRESHOLDS SHALL BE NO HIGHER THAN ½" ABOVE THE FLOOR. LEADING EDGE BEVELED WITH A SLOPE NO GREATER THAN 1:2
3. ALL DOOR FRAMES ARE TO BE WELDED.
4. DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
5. PROVIDE CLOSERS AT ALL FIRE RATED AND EXTERIOR DOORS. COORDINATE WITH HARDWARE SETS.
6. EXIT DOORS MUST OPEN OVER A LANDING NOT MORE THAN ½" MAXIMUM BELOW THE THRESHOLD, PER COMPLIANCE WITH A.D.A. REQUIREMENTS.
7. PROVIDE SAFETY GLAZING IN ALL SWINGING/SLIDING DOORS AND ASSOCIATED ACTIVE/FIXED PANELS.
8. PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 24 INCHES OF EITHER EDGE OF A OPERABLE DOOR.
9. PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 18 INCHES FROM AND RAMP/STAIR LANDING OR HAND/GUARDRAIL.
10. ALL EXTERIOR GLAZING SHALL BE DOUBLE PANE LOW 'E' INSULATED GLASS WITH THERMALLY BROKEN FRAMES UNLESS OTHERWISE NOTED.
11. ANY DOOR CARRYING A U.L. RATING SHALL BE INSTALLED IN A U.L. RATED FRAME CARRYING THE SAME DESIGNATION.
12. PROVIDE FIRE RATED GLAZING IN PANELS LOCATED WITHIN A RATED WALL.
13. CONTRACTOR TO COORDINATE SILL HEIGHTS WITH ELEVATIONS AND WALL SECTIONS.
14. REFER TO "PROJECT MANUAL" FOR GLASS TYPES, HARDWARE SETS, AND DOOR REQUIREMENTS.
15. PAINT METAL DOORS AND FRAMES TO MATCH ADJACENT WALLS UNLESS OTHERWISE NOTED. REFER TO FINISH LEGEND FOR ADDITIONAL INFORMATION.

Door Legend:

AL	ALUMINUM
CA	CARD ACCESS DEVICE
CL	CLOSER
FRP	FIBERGLASS
GL	GLASS
HC	HOLLOW CORE
HM	HOLLOW METAL
L	LOUVER
PF	PRE-FINISHED/FACTORY FINISHED
PH	PANIC HARDWARE
PR	PAIR
PTD	PAINTED
SD	SMOKE & DRAFT CONTROL
SS	STAINLESS STEEL
STL	STEEL
T	TEMPERED GLASS
V	VISION
WD	WOOD

Glazing Schedule - Basic

Mark	Description
GL-01	1/2" LAMINATED GLASS
GL-02	3/8 LAMINATED GLASS
IGU-01	1" INSULATED GLASS

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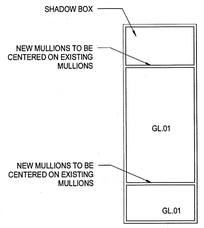
Door Details

A032

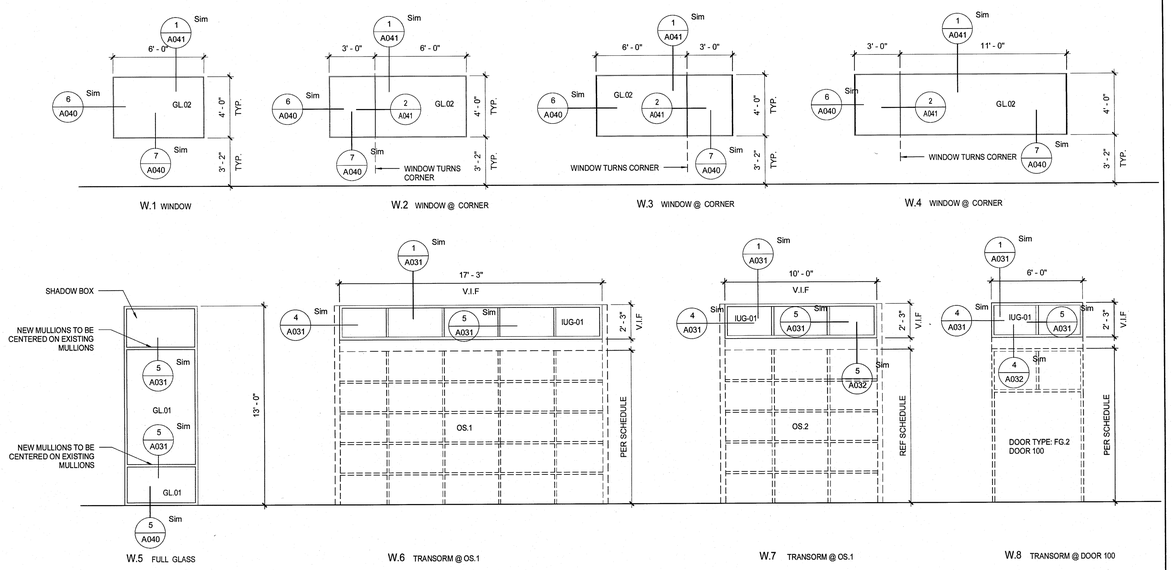
PERMIT BACKCHECK

Window Schedule										
Window Number	Type Mark	Width - Leg 1	Width - Leg 2	Glass Type	Height	Sill Height	Operation	Frame	Finish	Comments
01	W1	6' - 0"		GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
02	W1	6' - 0"		GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
03	W2	3' - 0"	6' - 0"	GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
04	W2	3' - 0"	6' - 0"	GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
05	W2	3' - 0"	6' - 0"	GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
06	W3	6' - 0"	3' - 0"	GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
07	W1	6' - 0"		GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.
08	W4	3' - 0"	11' - 0"	GL.01	4' - 0"	3' - 2"	FIXED	AL	CLR	BUTT GLAZED, TYP.

Glazing Schedule - Basic	
Mark	Description
GL-01	1/2" LAMINATED GLASS
GL-02	3/8 LAMINATED GLASS
IGU-01	1" INSULATED GLASS



W.9 FULL GLASS

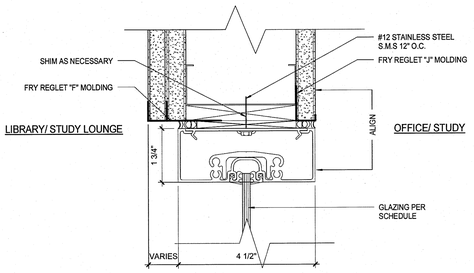


WINDOW TYPES | **1**

1/4" = 1'-0"

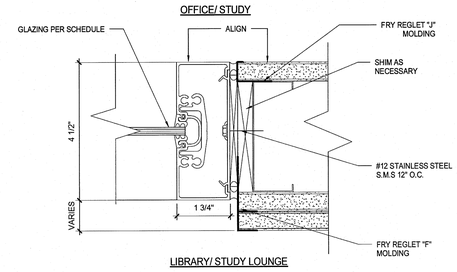
General Window Notes:

1. [INSERT NOTE HERE]



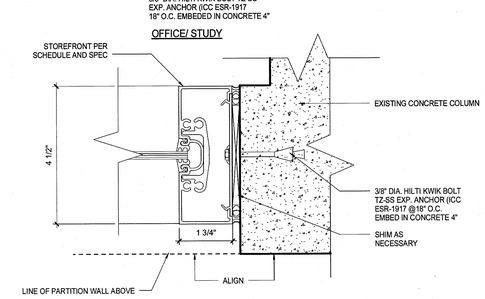
INT. STOREFRONT- HEAD | **2**

6" = 1'-0" | 3 / A030



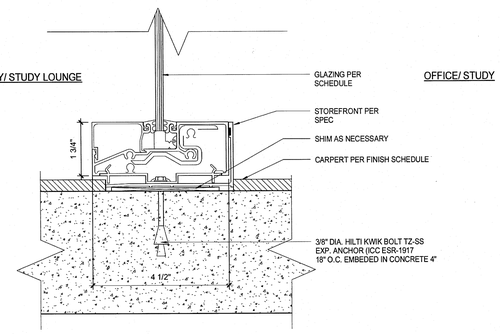
INT. STOREFRONT JAMB @ WALL | **3**

6" = 1'-0" | 3 / A030



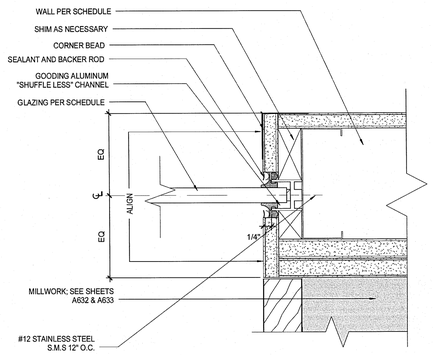
INT. STOREFRONT JAMB @ CONC. COLUMN | **4**

6" = 1'-0" | 3 / A030



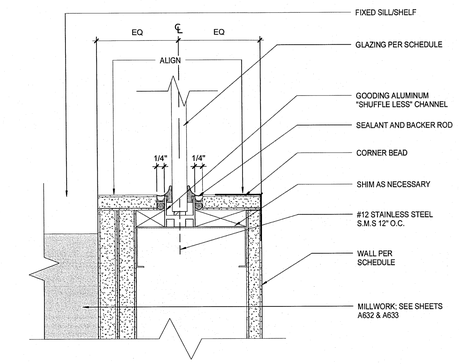
INT. STOREFRONT - SILL TO FLOOR | **5**

6" = 1'-0" | 3 / A030



GLZ. CHANNEL WINDOW JAMB TYP. | **6**

6" = 1'-0" | 1 / A040



GLZ. CHANNEL WINDOW SILL TYP. | **7**

6" = 1'-0" | 1 / A040

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Mt. Pleasant High School

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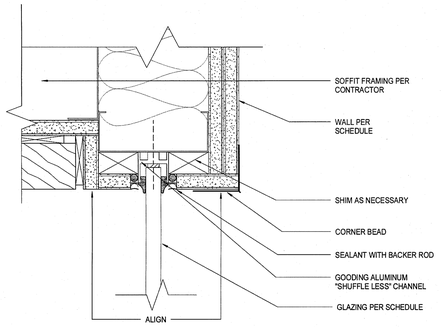
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Window Schedule, Types & Details

A040

PERMIT BACKCHECK

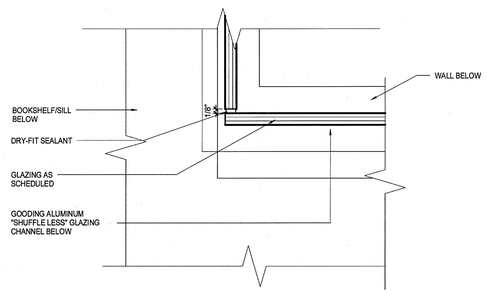


GLZ. CHANNEL WINDOW HEAD TYP. — 1

6" = 1'-0" | 1 / A040

Glazing Schedule - Basic

Mark	Description
GL-01	1/2" LAMINATED GLASS
GL-02	3/8 LAMINATED GLASS
IGU-01	1" INSULATED GLASS

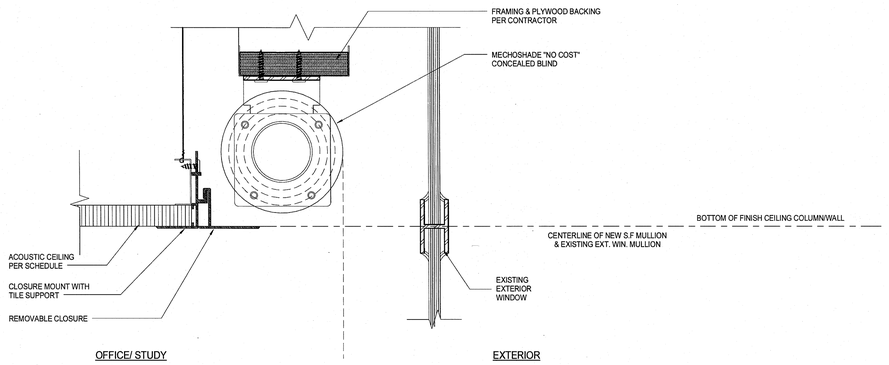


GLZ. CHANNEL AT CORNER — 2

6" = 1'-0" | 1 / A040

3 NOT USED

3 NOT USED



INT. STOREFRONT WINDOW MULL TO CEILING @ EXISTING — 5

6" = 1'-0" | 1 / A131

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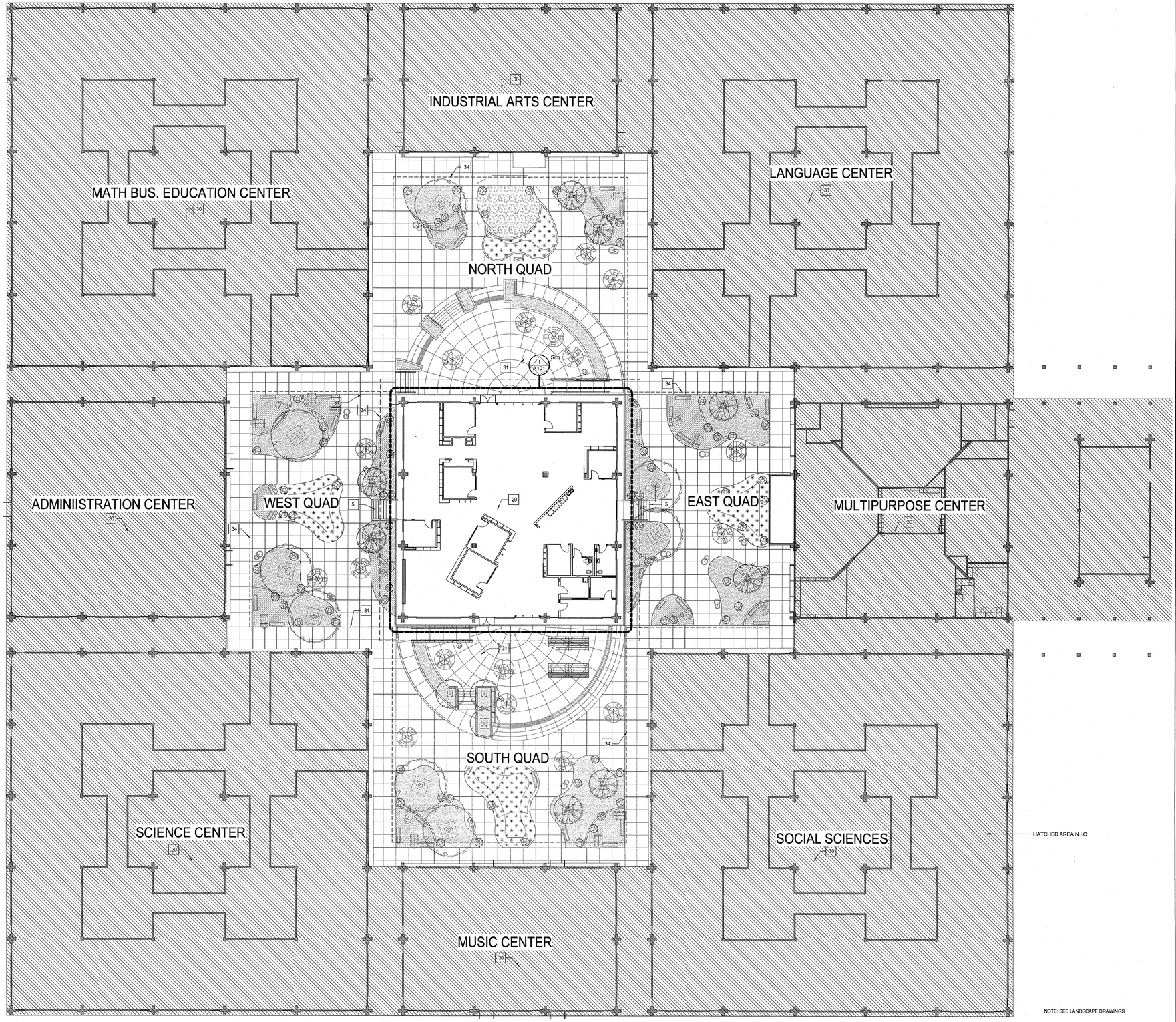
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AC: SSS:
FLS:
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Sheet:

Window Details

A041

PERMIT BACKCHECK



NOTE: SEE LANDSCAPE DRAWINGS.

ENLARGED SITE PLAN 1

1/16" = 1'-0" 1 / A201

General Notes:

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
3. PROVIDE POSITIVE DRAINAGE AWAY FROM THE
4. BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE.
5. FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.

Keynote Legend

Key Value	Keynote Text
5	EXISTING STAIRS TO REMAIN.
29	MODERNIZED MT. PLEASANT HIGH SCHOOL LIBRARY
30	EXISTING BUILDING TO REMAIN - N.I.C
31	NEW ENTRY WITH SEATING, SEE LANDSCAPE DRAWINGS
32	MODERNIZED QUAD, SEE LANDSCAPE DRAWINGS
34	LINE OF CANOPY ABOVE

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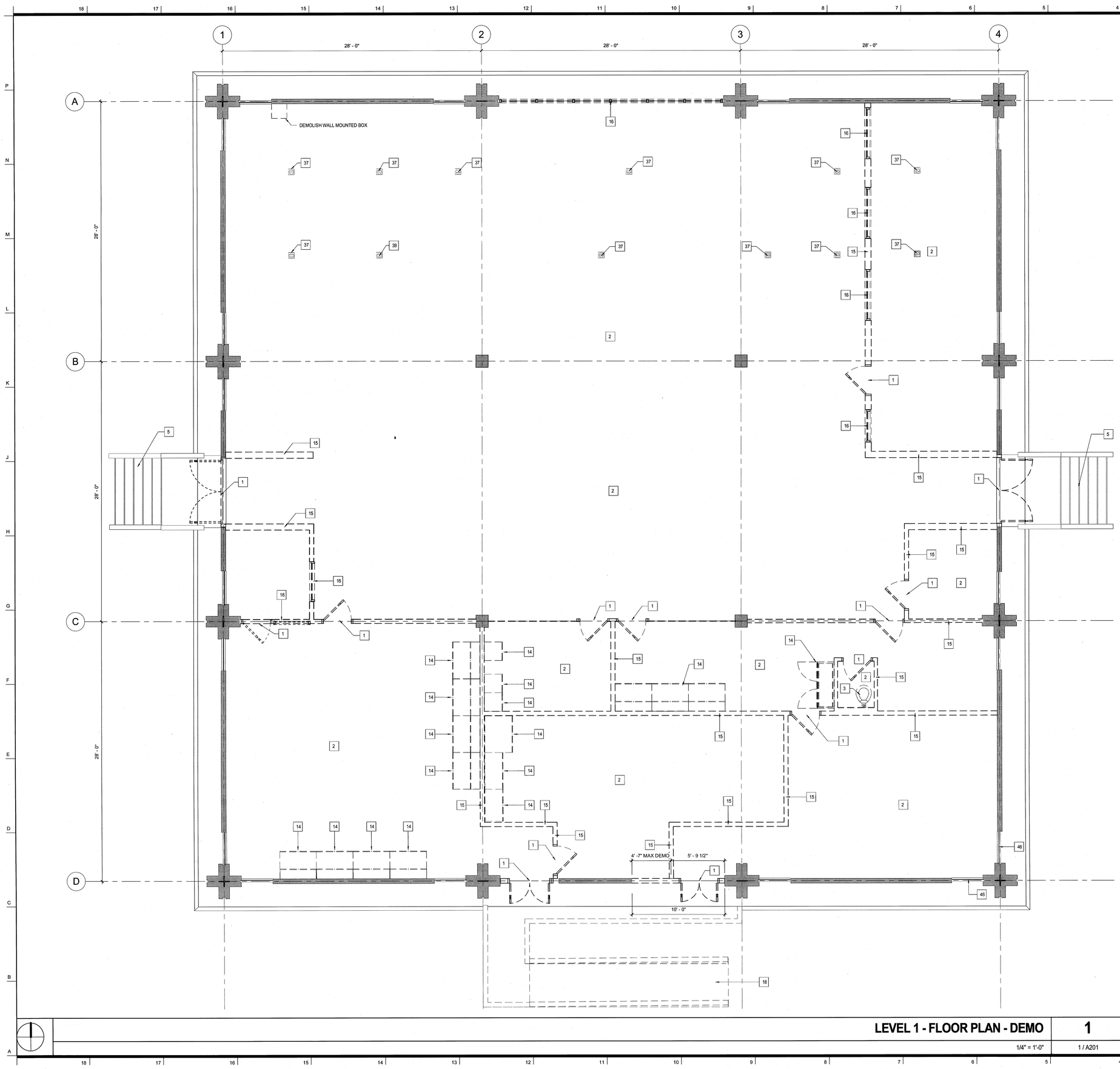
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Architectural Site Plan

AS100

PERMIT BACKCHECK



General Notes:

1. THIS DEMOLITION PLAN OUTLINES THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL ALSO REFER TO THE DRAWINGS FOR THE CONSTRUCTION OF THE NEW ADDITION FOR ADDITIONAL INFORMATION.
2. EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM DOCUMENTS AND INFORMATION SUPPLIED TO THE ARCHITECT, THE CONTRACTOR IS TO VERIFY EXACT LOCATIONS, SIZES, ELEVATIONS, ETC. AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED STOP WORK IMMEDIATELY AND NOTIFY OWNER. DO NOT RESUME WORK UNTIL DIRECTED BY THE OWNER.
4. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
5. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN ON SITE, THE CONTRACTOR SHALL REPAIR THE DAMAGE.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES.
7. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION NOTED TO REMAIN FROM DAMAGE AND SOILING DURING DEMOLITION. REMOVE DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
8. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND NOISE PROOF PARTITION BETWEEN CONSTRUCTION AREA AND ADJACENT PROPERTIES AS NECESSARY
9. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. THAT ARE TO BE REMOVED THAT ARE DEEMED SALVAGEABLE TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
10. ALL DEMOLITION MATERIALS NOT CLAIMED BY THE OWNER, OR TO BE REUSES ARE TO BE DISPOSED OF OFF SITE AS PER LOCAL REGULATIONS AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. MAINTAIN THE INTEGRITY OF ALL EXISTING RATED WALLS, FIRE SEAL ANY PENETRATIONS WITH U.L. APPROVED ASSEMBLY.
13. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
14. PROTECT EXISTING SITE IMPROVEMENTS AND LANDSCAPING TO REMAIN. INCLUDING BUT NOT LIMITED TO EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES AS NECESSARY TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AND AS REQUIRED BY THE CITY.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR TO PATCH/REPAIR ALL HOLES IN WALLS, FLOORS, &/ OR CEILINGS, AS REQUIRED. PAINT TO MATCH ADJACENT WALL/CEILING.
20. CONTRACTOR TO RE-LOCATE UTILITIES & EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL & PLUMBING REQUIREMENTS FOR NEW RENOVATION WORK.
21. REFER TO DEMOLITION PLUMBING PLANS FOR EXTENT OF CONCRETE SLAB TO BE REMOVED AND REPLACED FOR UNDER FLOOR PIPING INSTALLATION.
22. FILL ALL EXISTING FLOOR AND WALL PENETRATIONS RESULTING FROM PIPING AND CONDUIT REMOVAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINAL FLOOR OR WALL FINISH.
23. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
24. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEP SYSTEMS BACK TO PANEL OR MECHANICAL ROOM OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION, REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEP DRAWINGS
26. REFER TO MEP DRAWINGS FOR DEMOLITION OF MEP SYSTEMS TO IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND/OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBS THE EXTENT OF ALL DEMOLITION WORK.
27. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR FOR NEW FINISHES.
28. PROTECT ALL EXISTING HORIZONTAL BLINDS TO REMAIN UNLESS NOTED OTHERWISE.
29. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE SURFACE TO RECEIVE NEW FLOORING
30. REMOVE ANY EXISTING VINYL MATERIALS IN ACCORDANCE WITH EPA STANDARDS, NOTIFY ARCHITECT & OWNER OF ANY ADDITIONAL ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.

LEGEND:

- EXISTING WALL TO REMAIN
- WALL TO BE DEMOLISHED
- DOOR TO BE DEMOLISHED

Keynote Legend

Key Value	Keynote Text
1	EXISTING DOORS TO BE REMOVED
2	FINISH FLOORING AND WALL BASE TO BE REMOVED, TYP.
3	EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO BE REMOVED. CAP EXISTING PLUMBING WHERE REQUIRED.
5	EXISTING STAIRS TO REMAIN,
14	EXISTING CASEWORK TO BE REMOVED
15	EXISTING WALL TO BE REMOVED
16	EXISTING GLAZING TO BE REMOVED
18	EXISTING RAMP TO BE REMOVED
37	EXISTING FLOOR BOXES TO REMAIN. REPLACE FLOOR BOX WITH NEW BOX AND COVER PLATE
38	EXISTING FLOOR BOXED TO BE REMOVED. PATCH AND REPAIR
46	REMOVE PAINT ON GLAZING

LEVEL 1 - FLOOR PLAN - DEMO | **1**

1/4" = 1'-0" | 1 / A201

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LICENSED ARCHITECT ROBERT MARK BAILEY C 29017 STATE OF CALIFORNIA

Number	Revision Description	Date

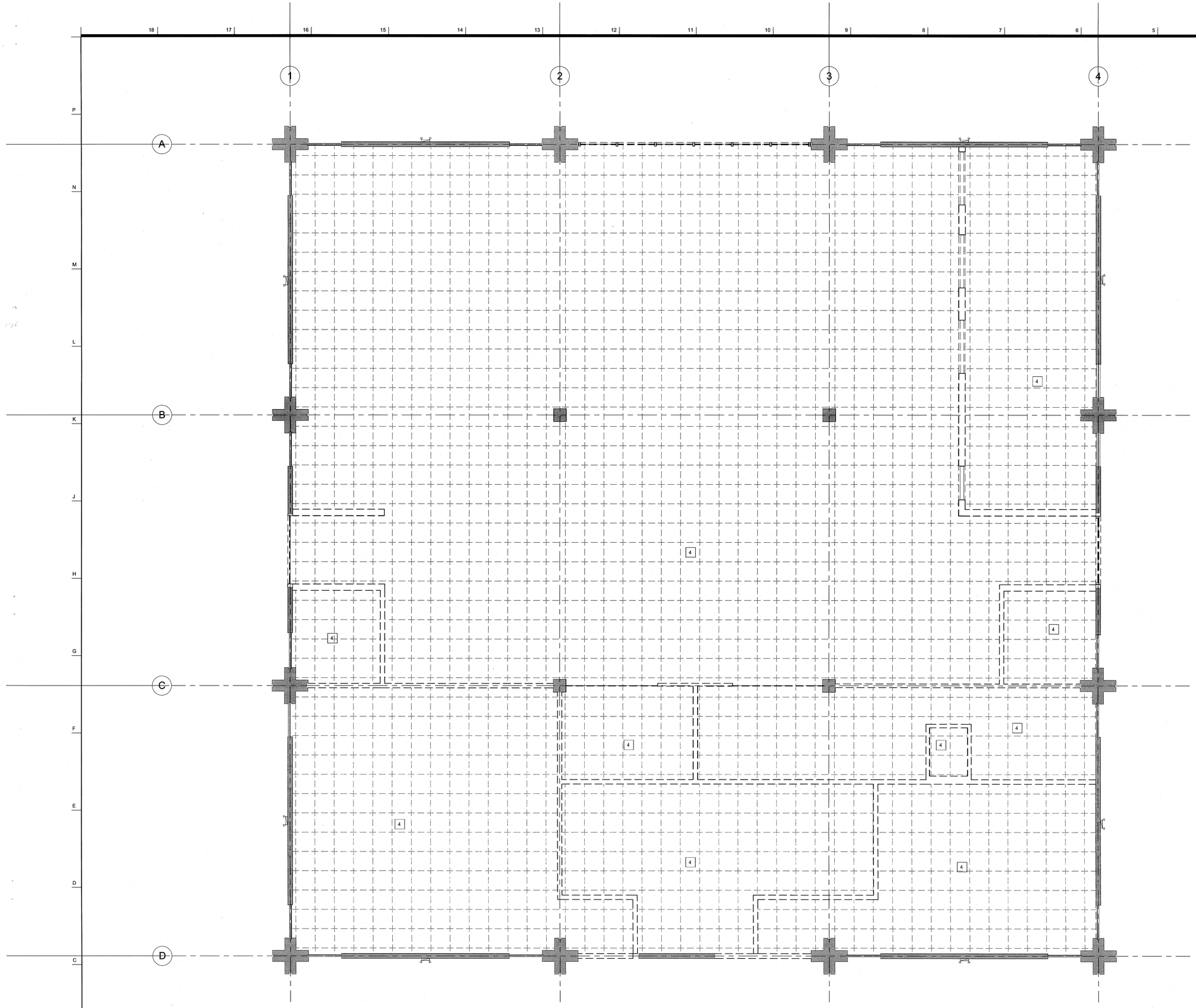
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Level 1 - Floor Plan - DEMO

AD101

PERMIT BACKCHECK



General Notes:

1. THIS DEMOLITION PLAN OUTLINES THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL ALSO REFER TO THE DRAWINGS FOR THE CONSTRUCTION OF THE NEW ADDITION FOR ADDITIONAL INFORMATION.
2. EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM DOCUMENTS AND INFORMATION SUPPLIED TO THE ARCHITECT, THE CONTRACTOR IS TO VERIFY EXACT LOCATIONS, SIZES, ELEVATIONS, ETC. AND REPORT ANY DISCREPANCIES TO THE ARCHITECT
3. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED STOP WORK IMMEDIATELY AND NOTIFY OWNER. DO NOT RESUME WORK UNTIL DIRECTED BY THE OWNER.
4. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
5. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN ON SITE, THE CONTRACTOR SHALL REPAIR THE DAMAGE.
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25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEP SYSTEMS BACK TO PANEL OR MECHANICAL ROOM OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION, REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEP DRAWINGS
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LEGEND:

- EXISTING WALL TO REMAIN
- WALL TO BE DEMOLISHED
- DOOR TO BE DEMOLISHED

Keynote Legend

Key Value	Keynote Text
4	EXISTING CEILING TILES AND LIGHTS TO BE REMOVED

LEVEL 1 - DEMO | **1**

1/4" = 1'-0" | 1 / A201

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Mt. Pleasant High School

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architect:
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LICENSED ARCHITECT ROBERT MARK BUNN 23017 STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT

APPLICATION # : 01-116168

FILE # : 43-C10

AC: FLS:

SSS: DATE: FEB 23 2017

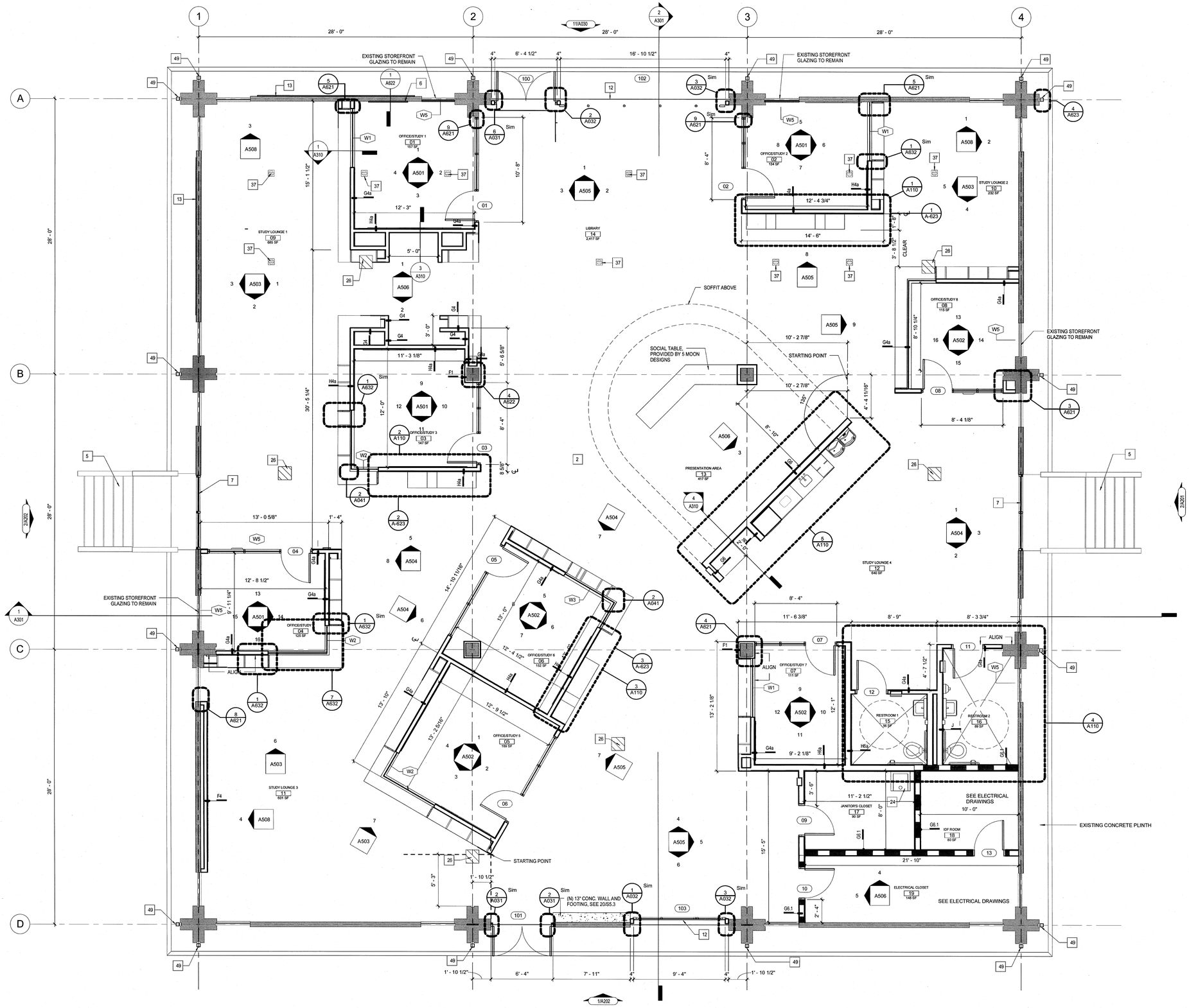
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Reflected Ceiling Plan - Level 1 - DEMO

AD131

PERMIT BACKCHECK



General Notes:

1. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
2. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
3. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM

Keynote Legend

Key Value	Keynote Text
2	FINISH FLOORING AND WALL BASE TO BE REMOVED, TYP.
5	EXISTING STAIRS TO REMAIN.
6	ALUMINUM INTERIOR STOREFRONT GLAZING ASSEMBLY
7	EXTERIOR STOREFRONT GLAZING ASSEMBLY, I.G.U.
12	NEW GARAGE DOOR
13	NEW RECYCLED RUBBER BULLETIN BOARD (1/A621)
24	MOP SINK.
26	EXISTING CUTOUT IN SLAB. PATCH AND REPAIR.
37	EXISTING FLOOR BOXES TO REMAIN. REPLACE FLOOR BOX WITH NEW BOX AND COVER PLATE
49	4x4" DOWNSPOUT (4/A623)

FLOOR PLAN LEGEND

- NEW WALL
- EXISTING WALLS TO REMAIN
- 1HR RATED WALL

Level 1 - Floor Plan — 1

1/4" = 1'-0" — 1 / A201

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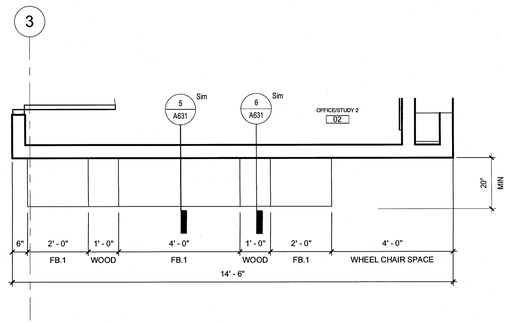
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Floor Plan - Level 1

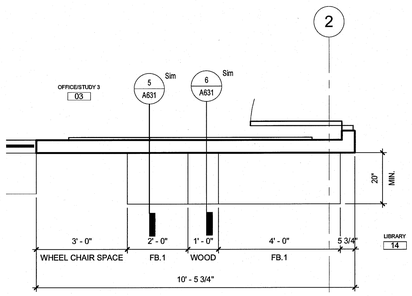
A101

PERMIT BACKCHECK



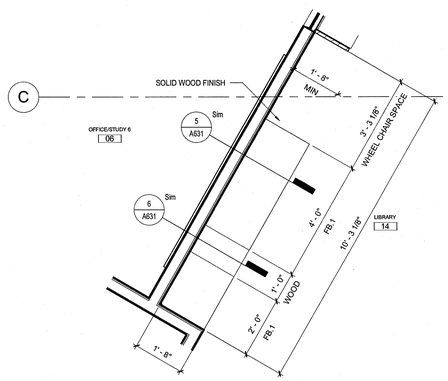
LEVEL 1 - BANQUET @ OFFICE/STUDY 02 — 1

1/2" = 1'-0" | 1 / A101



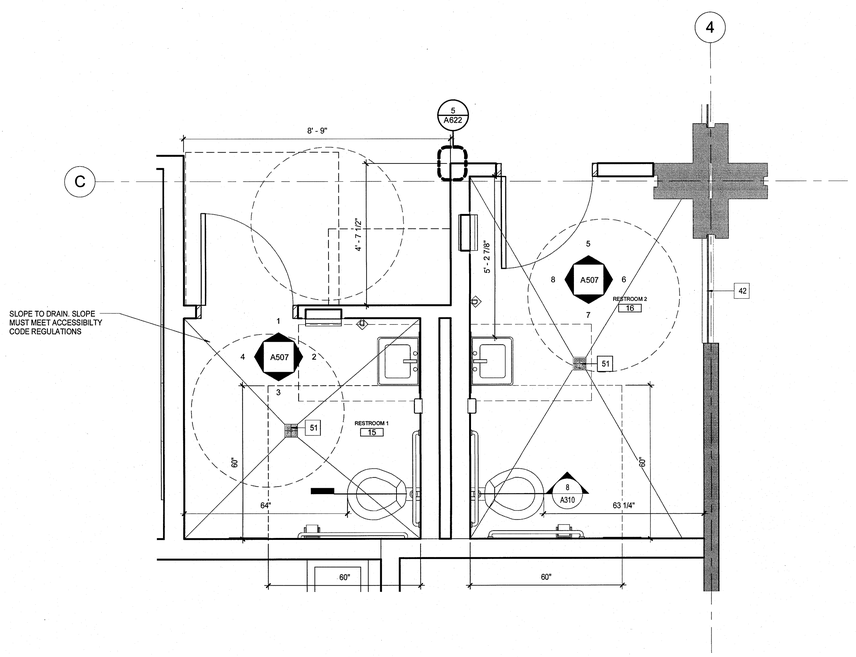
LEVEL 1 - BANQUET @ OFFICE/STUDY 03 — 2

1/2" = 1'-0" | 1 / A101



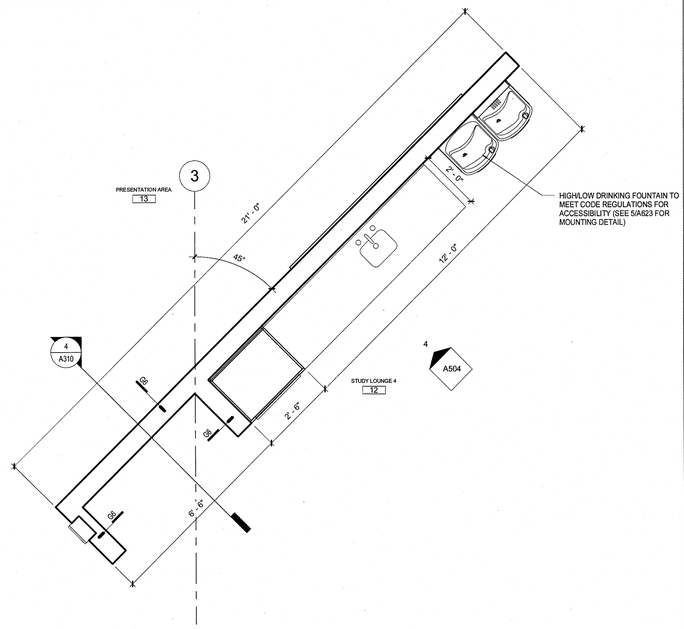
LEVEL 1 - BANQUET @ OFFICE/STUDY 06 — 3

1/2" = 1'-0" | 1 / A101



LEVEL 1 - ENLARGED FLOOR PLAN - RESTROOMS — 4

1/2" = 1'-0" | 1 / A101



LEVEL 1 - ENLARGED FLOOR PLAN - CAFE — 5

1/2" = 1'-0" | 1 / A101

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Keynote Legend	
Key Value	Keynote Text
42	GLAZING WITH FILM - FL.1
51	FLOOR DRAIN

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construction manager:
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408-660-4400 voice

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LICENSED ARCHITECT ROBERT MARK BAILEY 2017 STATE OF CALIFORNIA

Number	Revision Description	Date

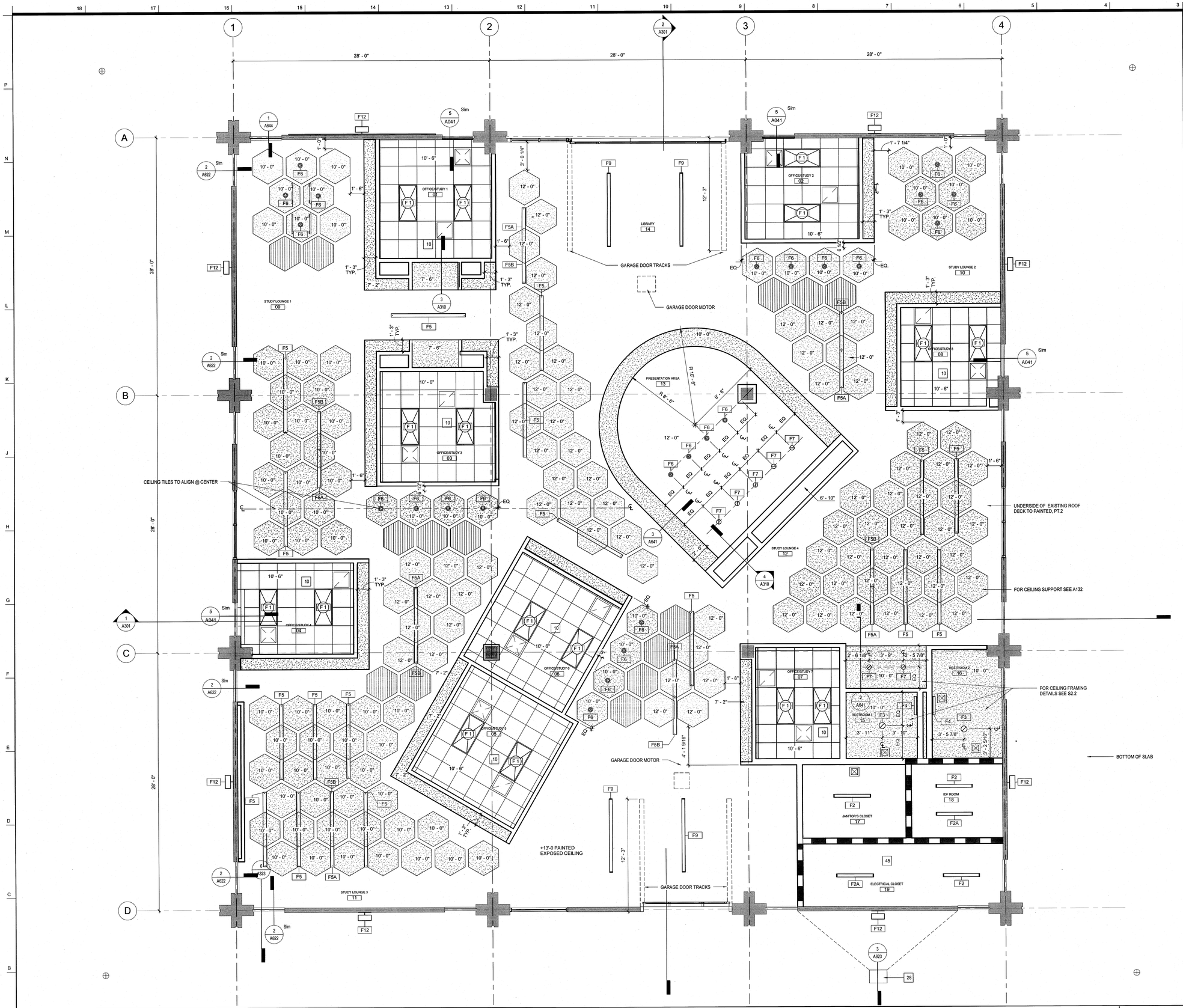
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB. 2 3 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Enlarged Floor Plans

A110

PERMIT BACKCHECK



General Notes:

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0").
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.
4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.
8. PAINT CEILING STRUCTURE AND ALL EQUIPMENT ABOVE TO MATCH PAINTED SLAB ABOVE.
9. SEE ELECTRICAL SCHEDULE FOR LIGHTING LEGEND

Lighting Fixture Legend:

	2X4 FLORESCENT
RE: PLAN	LINEAR PENDANT
	RECESSED CAN LIGHT
	CIRCULAR PENDANT
	LINEAR WALL MOUNTED
PLAN ELEVATION	EMERGENCY WALL PACK
	STEP LIGHT
	COVE LIGHT

RCP Legend:

	ACT. 1
	ACT. 2 FLAT
	ACT.2 SLANTED FROM 12'-0" TO 10'-0"
	ACT. 2 - HANGING AND BRACED INDIVIDUALLY
	ACT.2 HANGING AND BRACED AS A GROUP
	GWB, TYP.
	BRACING LOCATIONS
X	PANEL HOOK KITS
O	GROUP FRAMING DECK ATTACHMENT
	1HR RATED WALL

NOTES:

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING LEGEND

Keynote Legend

Key Value	Keynote Text
10	NEW CEILING TILES
28	EXTERIOR PROJECTOR, MOUNTED TO UNDERSIDE OF ROOF, MARTIN EXTERIOR 400 IMAGE PROJECTOR
45	2" DUCT LINER MOUNTEDED TO UNDERSIDE OF DECK

LEVEL 1 | **1**

1/4" = 1'-0" | 1 / A201

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LICENSED ARCHITECT ROBERT MARK BAHL RENEWAL 08/31/2017 STATE OF CALIFORNIA

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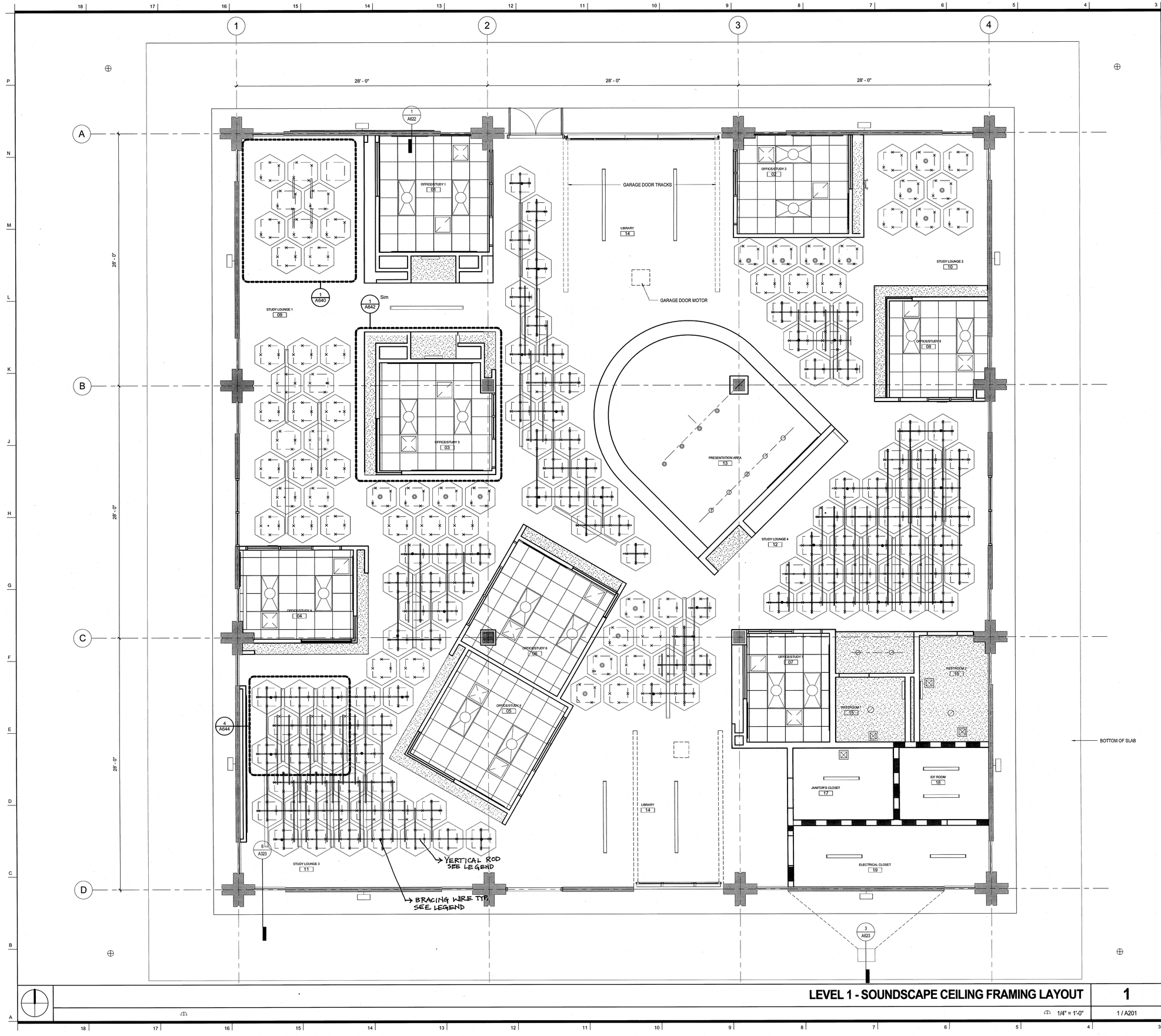
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-C10
AC: SSS:
FLS:
DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Reflected Ceiling Plan - Level 1

A131

PERMIT BACKCHECK



General Notes:

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.
4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.
8. PAINT CEILING STRUCTURE AND ALL EQUIPMENT ABOVE TO MATCH PAINTED SLAB ABOVE
9. SEE ELECTRICAL SCHEDULE FOR LIGHTING LEGEND

Lighting Fixture Legend:

- 2X4 FLORESCENT
- LINEAR PENDANT (RE: PLAN)
- RECESSED CAN LIGHT
- CIRCULAR PENDANT
- LINEAR WALL MOUNTED
- EMERGENCY WALL PACK (PLAN / ELEVATION)
- STEP LIGHT
- COVE LIGHT

RCP Legend:

- ACT. 1
- ACT. 2 FLAT
- ACT.2 SLANTED FROM 12'-0" TO 10'-0"
- ACT. 2 - HANGING AND BRACED INDIVIDUALLY
- ACT.2 HANGING AND BRACED AS A GROUP
- GWB, TYP.
- BRACING LOCATIONS SEE 2/S9.2
- X PANEL HOOK KITS
- O VERTICAL ROD SEE 7/S9.2
- 1HR RATED WALL

Keynote Legend	
Key Value	Keynote Text

NOTES:

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING LEGEND

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Number	Revision Description	Date

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APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: FLS:
DATE FEB 2 3 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Reflected Ceiling Plan - Level 1

A132

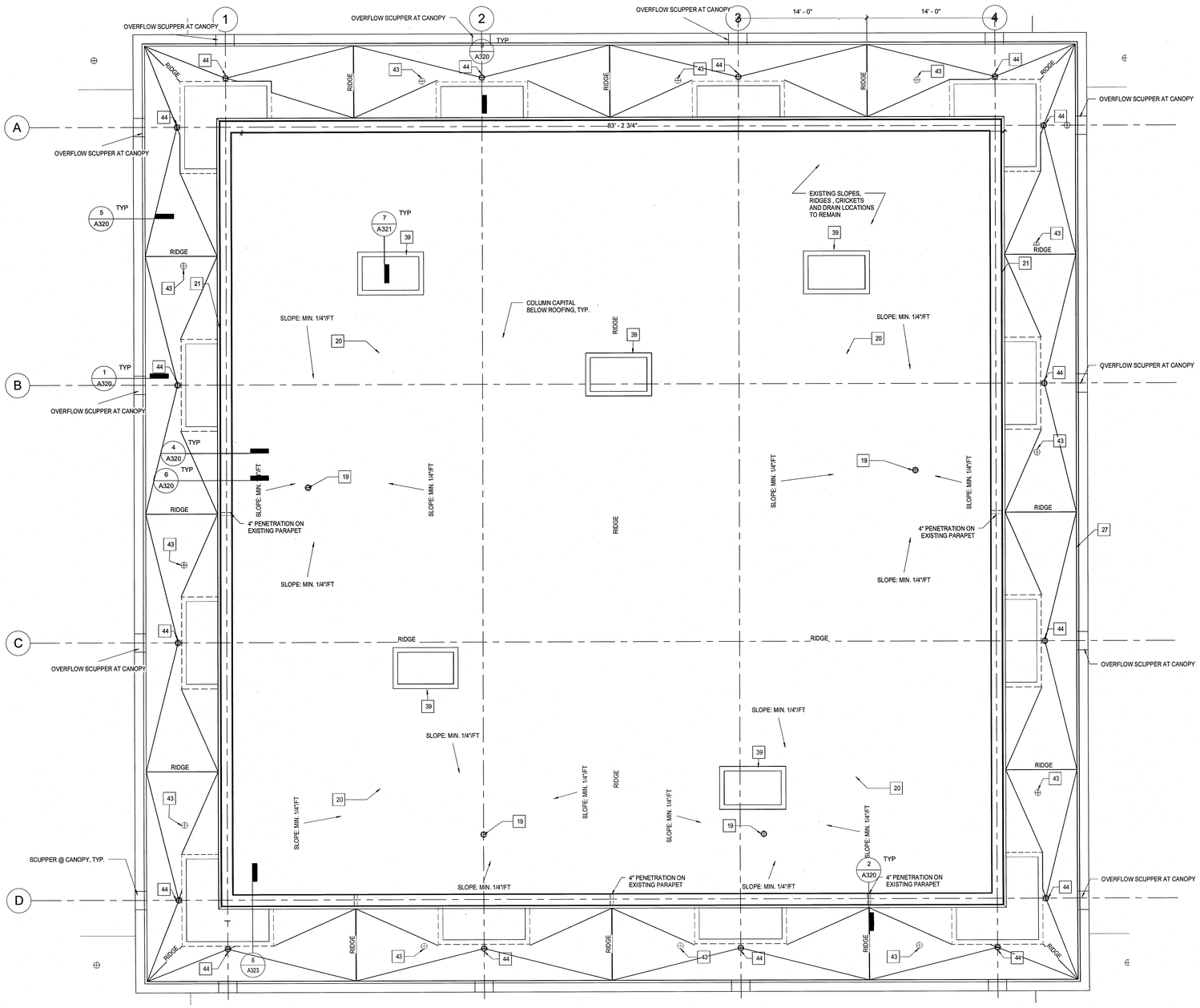
PERMIT BACKCHECK

LEVEL 1 - SOUNDSCAPE CEILING FRAMING LAYOUT

1

1/4" = 1'-0"

1 / A201



General Notes:

1. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
2. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
3. PROVIDE CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE ANF UPTURNED COLUMN CAPITALS.
4. ALL FLAT ROOFS TO SLOPE 1/4" PER FOOT MINIMUM.
5. ALL CRICKETS TO SLOPE 1/4" PER FOOT MINIMUM.
6. MINIMUM 6" RIGID INSULATION TO DRAIN.
7. ROOF PERFORMANCE MUST MEET CURRENT CODES.
8. SEE MEP FOR ROOF TOP EQUIPMENT.
9. FIELD VERIFY EXISTING ROOF CONDITIONS.
10. INSTALL SINGLE PLY MEMBRANE AS SPECIFIED IN SECTION 074500 THERMOPLASTIC MEMBRANE ROOFING
11. LIGHTWEIGHT CONCRETE SHALL BE LEFT IN PLACE AND NOT DEMOLISHED. REPAIR AND REPLACE AREAS OF LIGHTWEIGHT CONCRETE FOUND TO BE WET AS SPECIFIED.

Keynote Legend

Key Value	Keynote Text
19	NEW ROOF DRAIN - REUSE EXISTING ROOF CUT OUT (3/A320)
20	SINGLE PLY "COOL ROOF"
21	EXISTING PARAPET TO REMAIN
27	METAL FASCIA
39	ROOF CURB
43	EXISTING DRAIN; ABANDON PATCH AND REPAIR
44	NEW DRAIN (3/A320)

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LICENSED ARCHITECT ROBERT MARK DAVIS C-20017 STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: _____ FLS: _____
SSS: _____ DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

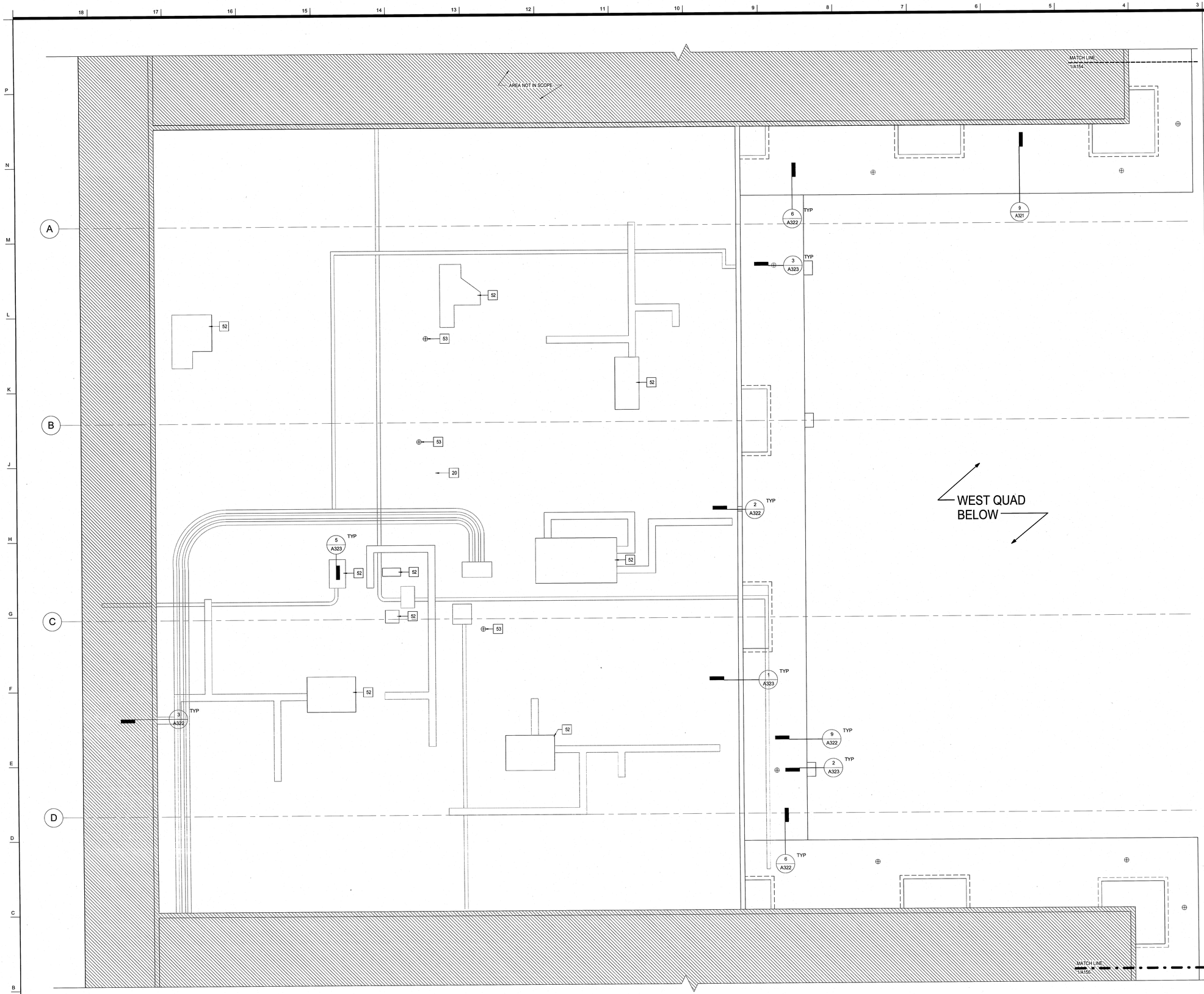
Roof Plan - Library

A152

PERMIT BACKCHECK

ROOF PLAN - LIBRARY 1

3/16" = 1'-0" 1 / A151



General Notes:

1. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
2. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
3. PROVIDE CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE ANF UPTURNED COLUMN CAPITALS.
4. ALL FLAT ROOFS TO SLOPE 1/4" PER FOOT MINIMUM.
5. ALL CRICKETS TO SLOPE 1/4" PER FOOT MINIMUM.
6. ROOF PERFORMANCE MUST MEET CURRENT CODES.
7. SEE MEP FOR ROOF TOP EQUIPMENT.
8. FIELD VERIFY EXISTING ROOF CONDITIONS.
9. INSTALL SINGLE PLY MEMBRANE AS SPECIFIED IN SECTION 074500 THERMOPLASTIC MEMBRANE ROOFING
10. BUR SYSTEM AND LIGHTWEIGHT CONCRETE SHALL BE LEFT IN PLACE AND NOT DEMOLISHED. REPAIR AND REPLACE AREAS OF BUR AND LIGHTWEIGHT CONCRETE FOUND TO BE WET AS SPECIFIED
11. NEW ROOF TO ENCAPSULATE EXISTING ROOF; ALL SLOPES RIDGES, CRICKETS AND DRAIN LOCATIONS WILL MATCH EXISTING ROOF.

Keynote Legend

Key Value	Keynote Text
20	SINGLE PLY "COOL ROOF"
52	EXISTING TO REMAIN AC UNIT
53	EXISTING ROOF OPENING TO REMAIN, REPLACE DRAIN

NOTES:

1. VERIFY ALL MEASUREMENTS IN FIELD
2. NOT ALL PROJECTS ARE SHOWN. CONTRACTOR TO VERIFY.
3. IF REQUIRED BY THE NEW SYSTEM MANUFACTURER, REMOVE
   ALL EXISTING EDGE METAL AND BASE FLASHINGS.
4. PARAPET WALL TO REVICE NEW LINERM SHIM AND CAP FLASHING. REFER TO DETAIL DRAWINGS (INSERT DETAL HERE)

ROOF PLAN - ADMINISTRATON AND CANOPY

3/16" = 1'-0"

1

1 / A151

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Number	Revision Description	Date

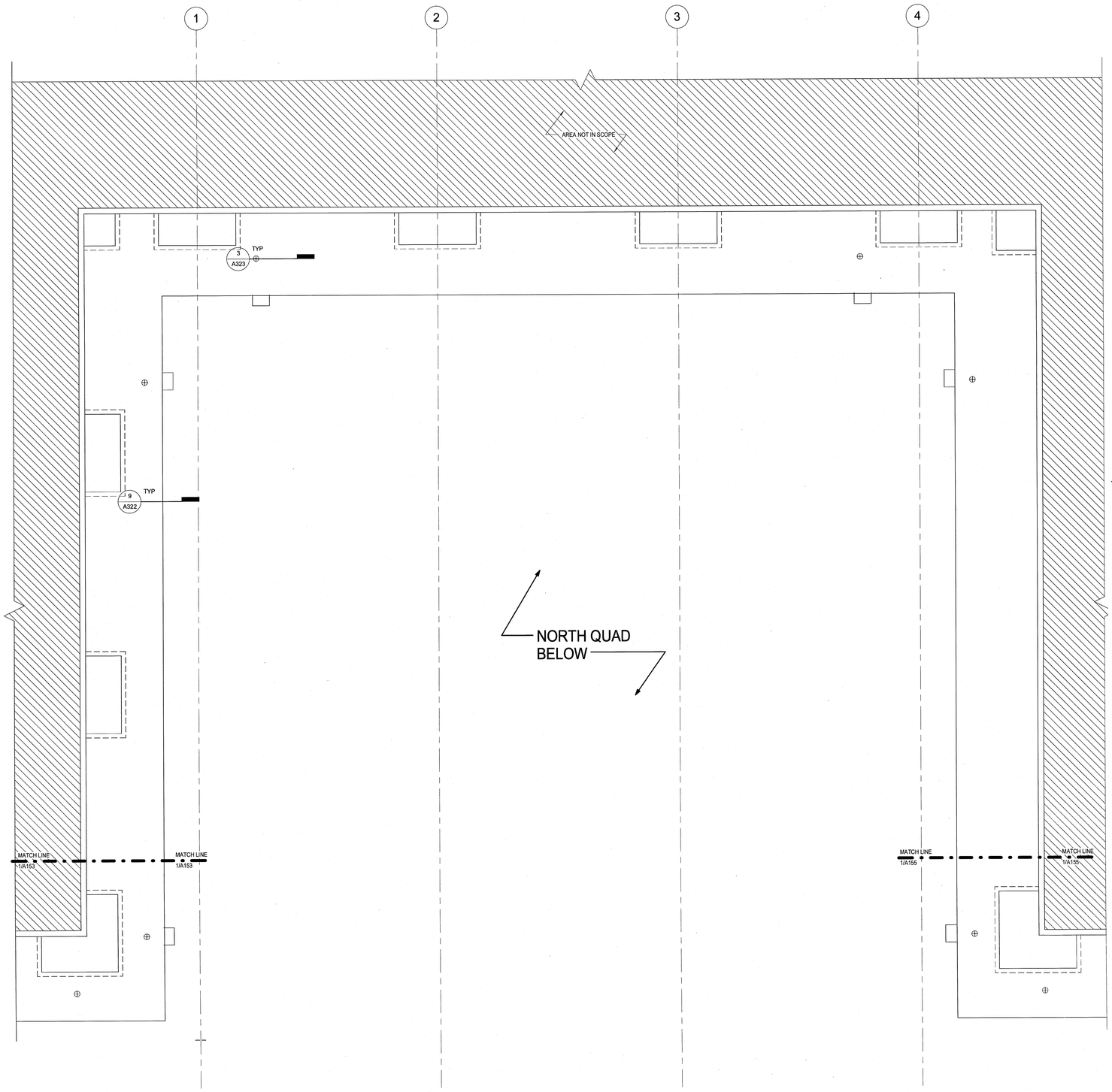
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Roof Plan - Administration

A153

PERMIT BACKCHECK



General Notes:

1. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
2. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
3. PROVIDE CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE ANF UPTURNED COLUMN CAPITALS.
4. ALL FLAT ROOFS TO SLOPE 1/4" PER FOOT MINIMUM.
5. ALL CRICKETS TO SLOPE 1/4" PER FOOT MINIMUM.
6. MINIMUM 6" RIGID INSULATION TO DRAIN.
7. ROOF PERFORMANCE MUST MEET CURRENT CODES.
8. SEE MEP FOR ROOF TOP EQUIPMENT.
9. FIELD VERIFY EXISTING ROOF CONDITIONS.
10. INSTALL SINGLE PLY MEMBRANE AS SPECIFIED IN SECTION 074500 THERMOPLASTIC MEMBRANE ROOFING
11. LIGHTWEIGHT CONCRETE SHALL BE LEFT IN PLACE AND NOT DEMOLISHED. REPAIR AND REPLACE AREAS OF LIGHTWEIGHT CONCRETE FOUND TO BE WET AS SPECIFIED.

NOTES:

1. VERIFY ALL MEASUREMENTS IN FIELD
2. NOT ALL PROJECTS ARE SHOWN. CONTRACTOR TO VERIFY.
3. IF REQUIRED BY THE NEW SYSTEM MANUFACTURER, REMOVE ALL EXISTING EDGE METAL AND BASE FLASHINGS.
4. PARAPET WALL TO RECEIVE NEW SHIM AND CAP FLASHING. REFER TO DETAIL DRAWINGS
5. NEW ROOF TO BE ADHERED TO EXISTING LIGHTWEIGHT CONCRETE SUBSTRATE. EXISTING BUR AND FIBERBOARD INSULATION TO BE REMOVED PRIOR TO INSTALLING THE NEW THERMOPLASTIC ROOF SYSTEM.

ROOF PLAN - NORTH CANOPY | **1**

3/16" = 1'-0" | 1 / A151

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Number	Revision Description	Date

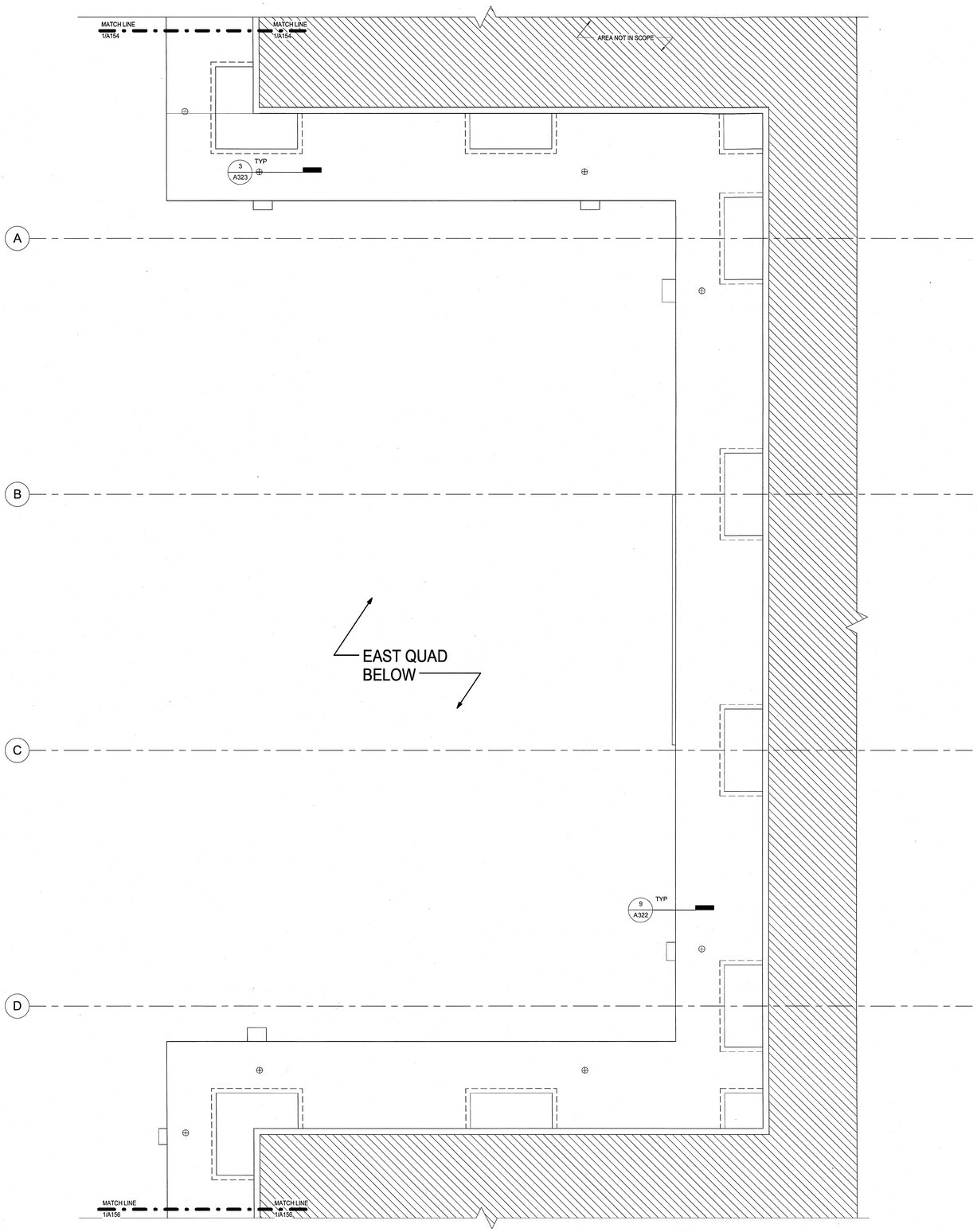
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
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AC: FLS:
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Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Roof Plan - North Canopy

A154

PERMIT BACKCHECK



General Notes:

1. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
2. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
3. PROVIDE CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE ANF UPTURNED COLUMN CAPITALS.
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5. ALL CRICKETS TO SLOPE 1/4" PER FOOT MINIMUM.
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7. ROOF PERFORMANCE MUST MEET CURRENT CODES.
8. SEE MEP FOR ROOF TOP EQUIPMENT.
9. FIELD VERIFY EXISTING ROOF CONDITIONS.
10. INSTALL SINGLE PLY MEMBRANE AS SPECIFIED IN SECTION 074500 THERMOPLASTIC MEMBRANE ROOFING
11. LIGHTWEIGHT CONCRETE SHALL BE LEFT IN PLACE AND NOT DEMOLISHED. REPAIR AND REPLACE AREAS OF LIGHTWEIGHT CONCRETE FOUND TO BE WET AS SPECIFIED.

NOTES:

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3. IF REQUIRED BY THE NEW SYSTEM MANUFACTURER, REMOVE ALL EXISTING EDGE METAL AND BASE FLASHINGS.
4. PARAPET WALL TO RECEIVE NEW. SHIM AND CAP FLASHING. REFER TO DETAIL DRAWINGS
5. NEW ROOF TO BE ADHERED TO EXISTING LIGHTWEIGHT CONCRETE SUBSTRATE. EXISTING BUR AND FIBERBOARD INSULATION TO BE REMOVED PRIOR TO INSTALLING THE NEW THERMOPLASTIC ROOF SYSTEM.

ROOF PLAN - EAST CANOPY — **1**

3/16" = 1'-0" — 1 / A151

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Number	Revision Description	Date

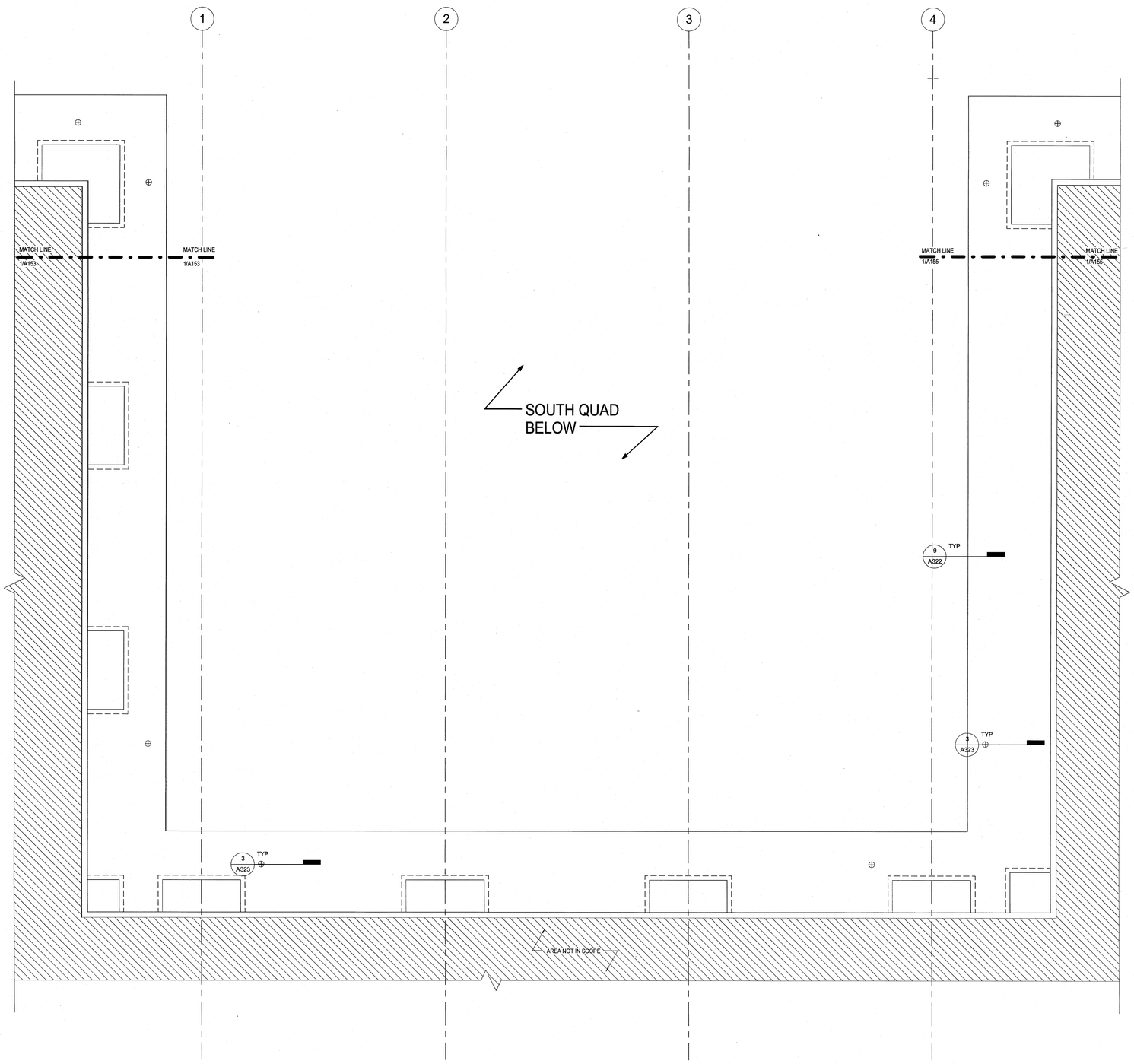
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Roof Plan - East Canopy

A155

PERMIT BACKCHECK



ROOF PLAN - SOUTH CANOPY

1

3/16" = 1'-0"

1 / A151

General Notes:

1. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
2. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
3. PROVIDE CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE ANF UPTURNED COLUMN CAPITALS.
4. ALL FLAT ROOFS TO SLOPE 1/4" PER FOOT MINIMUM.
5. ALL CRICKETS TO SLOPE 1/4" PER FOOT MINIMUM.
6. MINIMUM 6" RIGID INSULATION TO DRAIN.
7. ROOF PERFORMANCE MUST MEET CURRENT CODES.
8. SEE MEP FOR ROOF TOP EQUIPMENT.
9. FIELD VERIFY EXISTING ROOF CONDITIONS.
10. INSTALL SINGLE PLY MEMBRANE AS SPECIFIED IN SECTION 074500 THERMOPLASTIC MEMBRANE ROOFING
11. LIGHTWEIGHT CONCRETE SHALL BE LEFT IN PLACE AND NOT DEMOLISHED. REPAIR AND REPLACE AREAS OF LIGHTWEIGHT CONCRETE FOUND TO BE WET AS SPECIFIED.

NOTES:

1. VERIFY ALL MEASUREMENTS IN FIELD
2. NOT ALL PROJECTS ARE SHOWN. CONTRACTOR TO VERIFY.
3. IF REQUIRED BY THE NEW SYSTEM MANUFACTURER, REMOVE ALL EXISTING EDGE METAL AND BASE FLASHINGS.
4. PARAPET WALL TO RECEIVE NEW SHIM AND CAP FLASHING. REFER TO DETAIL DRAWINGS
5. NEW ROOF TO BE ADHERED TO EXISTING LIGHTWEIGHT CONCRETE SUBSTRATE. EXISTING BUR AND FIBERBOARD INSULATION TO BE REMOVED PRIOR TO INSTALLING THE NEW THERMOPLASTIC ROOF SYSTEM.

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STATE OF CALIFORNIA

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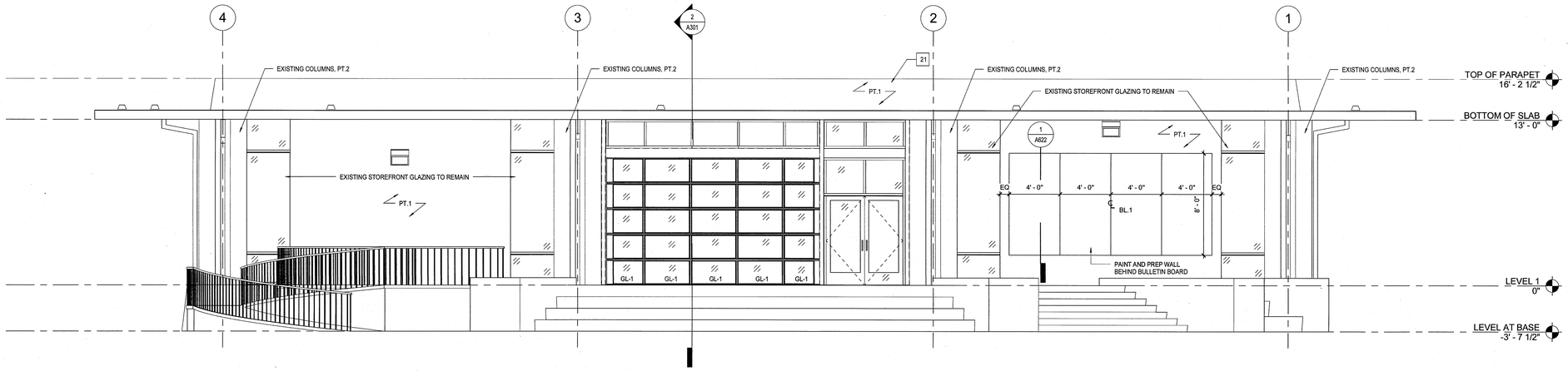
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APPLICATION # : 01-116168
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SSS: DATE:
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Date: February 15, 2017
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Roof Plan - South Canopy

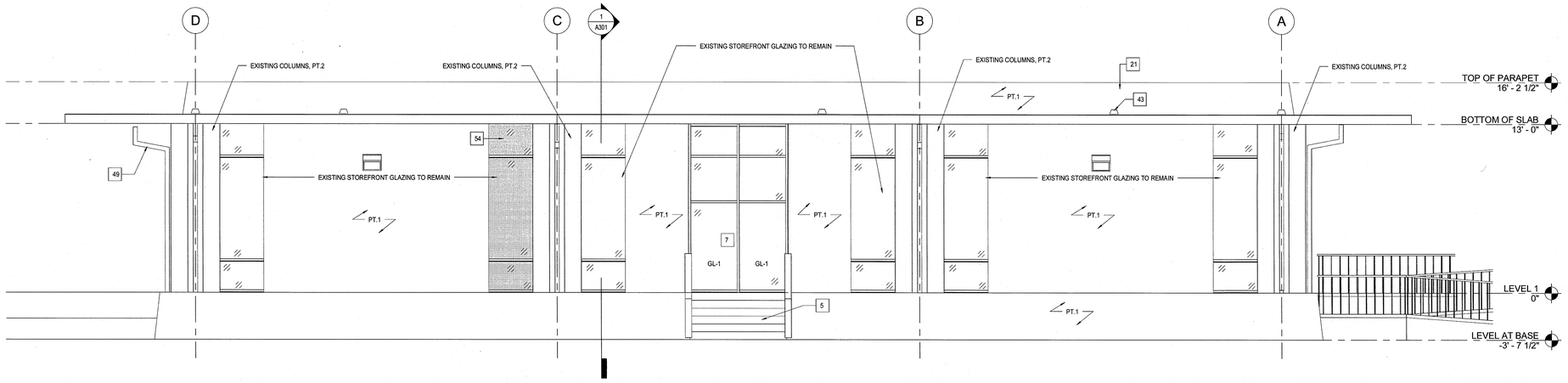
A156

PERMIT BACKCHECK



NORTH ELEVATION 1

1/4" = 1'-0"



EAST 2

1/4" = 1'-0" | 1 / A101

General Notes:

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.
3. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend

Key Value	Keynote Text
5	EXISTING STAIRS TO REMAIN.
7	EXTERIOR STOREFRONT GLAZING ASSEMBLY, I.G.U
21	EXISTING PARAPET TO REMAIN
43	EXISTING DRAIN; ABANDON PATCH AND REPAIR
49	4x4" DOWNSPOUT (4/A623)
54	GLAZING WITH FILM FL.2

FINISH LEGEND

PAINT
PT.1 - DUNN EDWARDS PAINT, DEW341 SWISS COFFEE, LRV 83
PT.2 - DUNN EDWARDS PAINT, DE6364 CAVERNOUS, LVR 8

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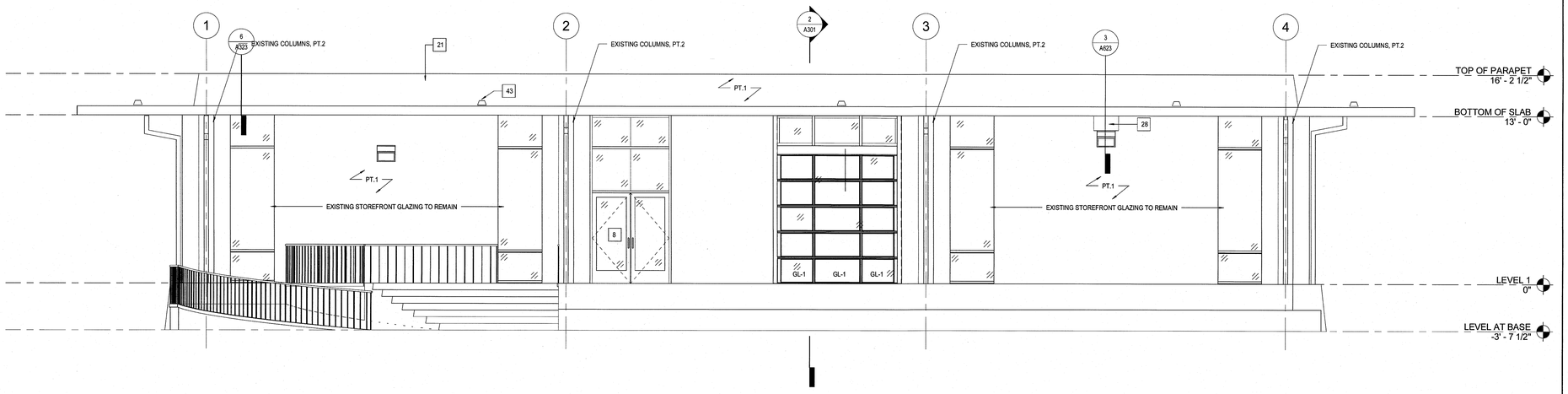
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APPLICATION # : 01-116168
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AC: FLS:
SSS: DATE FEB 23 2017
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Exterior Elevations

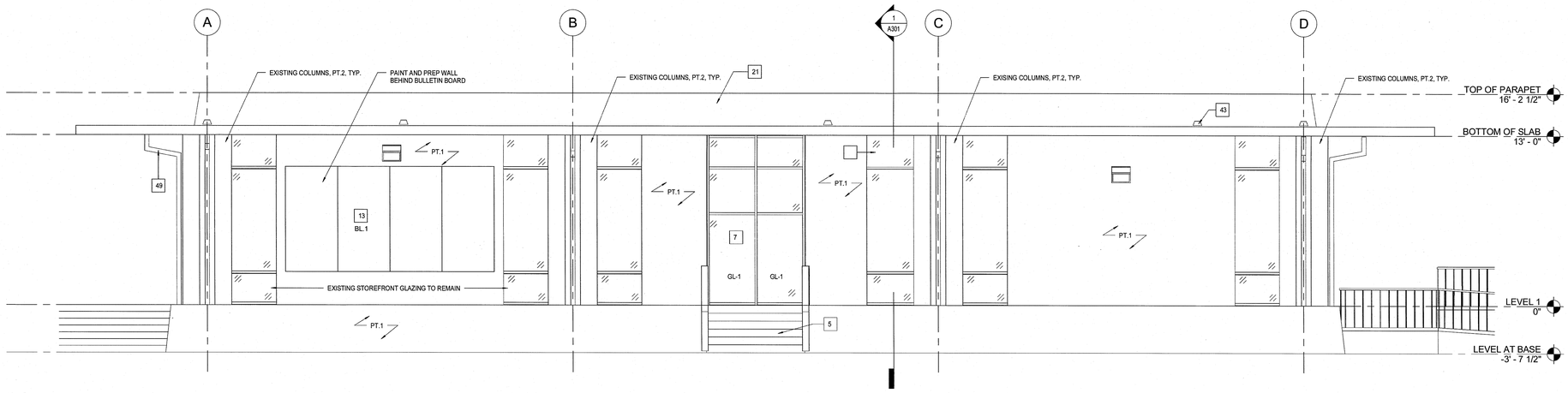
A201

PERMIT BACKCHECK



SOUTH | **1**

1/4" = 1'-0" | 1 / A101



WEST | **2**

1/4" = 1'-0" | 1 / A101

General Notes:

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.
3. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend	
Key Value	**Keynote Text**
5	EXISTING STAIRS TO REMAIN,
7	EXTERIOR STOREFRONT GLAZING ASSEMBLY, I.G.U
8	NEW STOREFRONT WITH DOUBLE DOORS
13	NEW RECYCLED RUBBER BULLETIN BOARD (1/A621)
21	EXISTING PARAPET TO REMAIN
28	EXTERIOR PROJECTOR, MOUNTED TO UNDERSIDE OF ROOF, MARTIN EXTERIOR 400 IMAGE PROJECTOR
43	EXISTING DRAIN; ABANDON PATCH AND REPAIR
49	4x4" DOWNSPOUT (4/A623)

FINISH LEGEND

PAINT
PT.1 - DUNN EDWARDS PAINT, DEW341 SWISS COFFEE, LRV 83
PT.2 - DUNN EDWARDS PAINT, DE6364 CAVERNOUS, LVR 8

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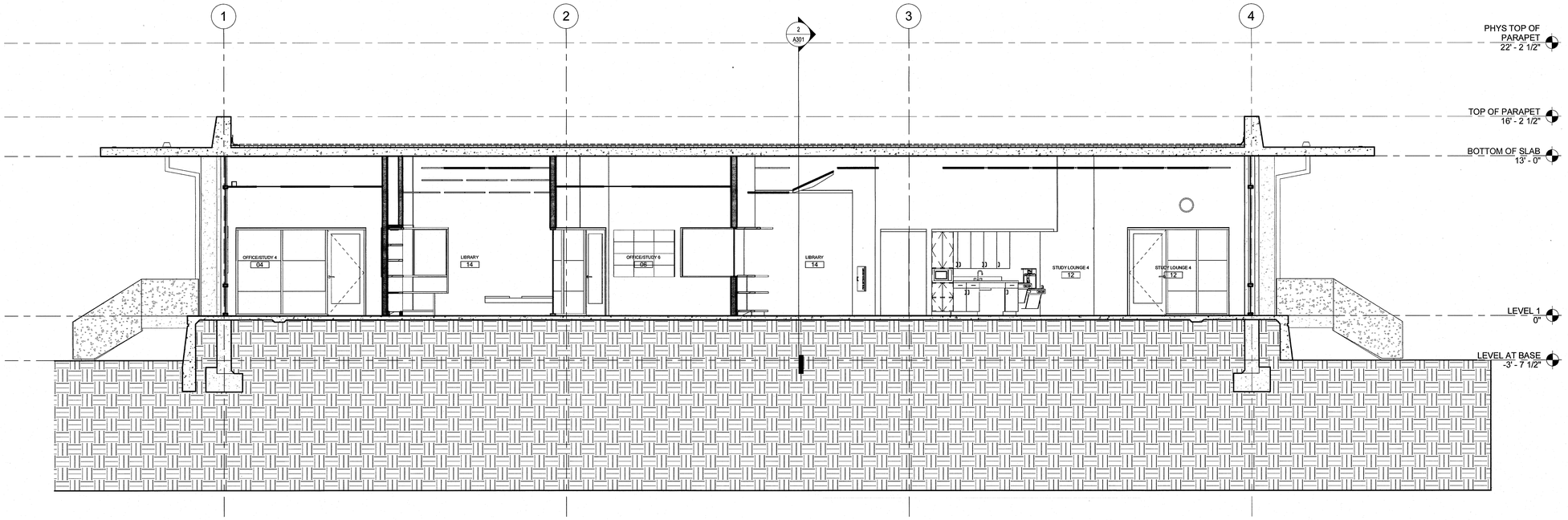
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Exterior Elevations

A202

PERMIT BACKCHECK

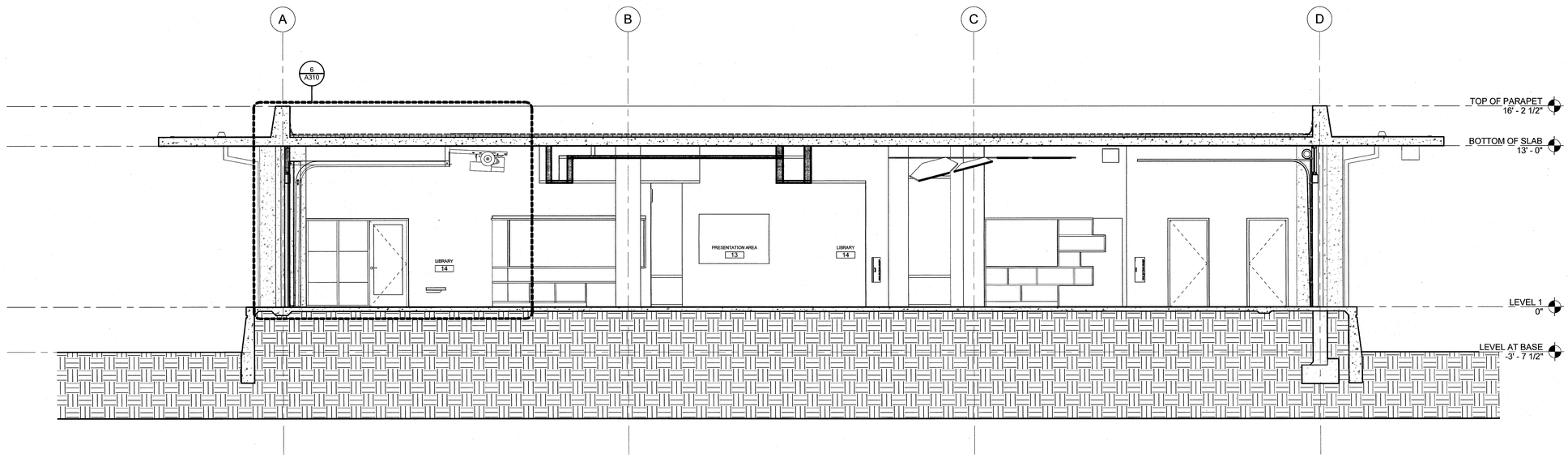


EAST-WEST SECTION

1

1/4" = 1'-0"

1 / A101



NORTH-SOUTH SECTION

2

1/4" = 1'-0"

1 / A101

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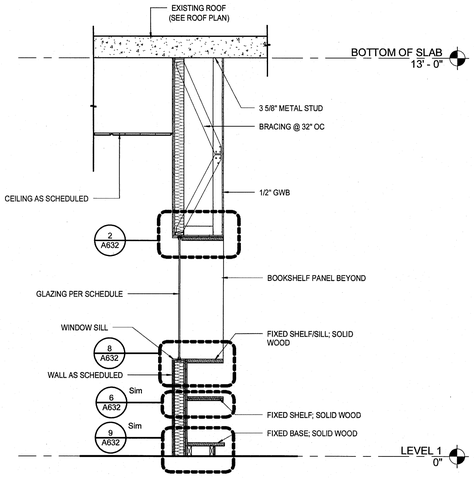
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Building Sections

A301

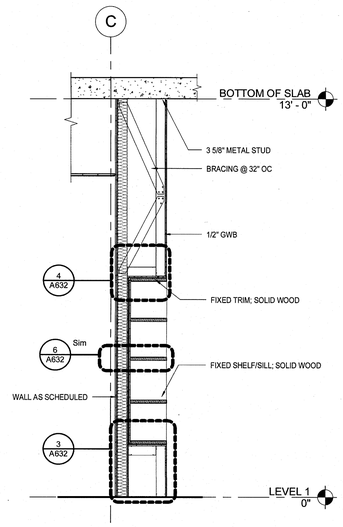
PERMIT BACKCHECK



SEE S9.2 FOR BRACING REQUIREMENTS

SECTION THROUGH BOOKSHELF AND GLAZING — 1

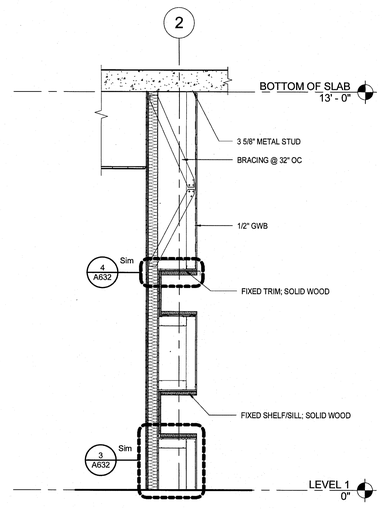
1/2" = 1'-0" | 1 / A101



SEE S9.2 FOR BRACING REQUIREMENTS

TYP. WALL SECTION @ BOOKSHELF (1) — 2

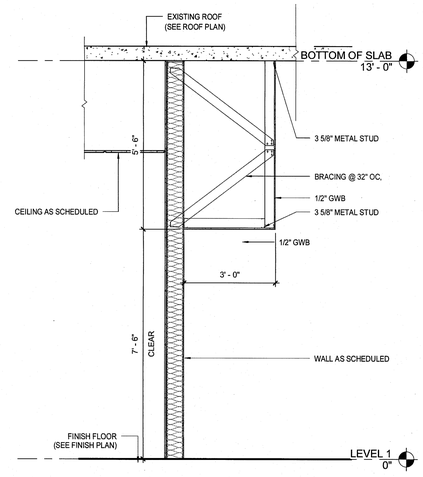
1/2" = 1'-0" | 1 / A503



SEE S9.2 FOR BRACING REQUIREMENTS

TYP. WALL SECTION @ BOOKSHELF (2) — 7

1/2" = 1'-0" | 6 / A504



SEE S9.2 FOR BRACING REQUIREMENTS

SECTION THROUGH STUDY ALCOVE — 3

1/2" = 1'-0" | 1 / A101

SEE S9.2 FOR BRACING REQUIREMENTS

SECTION THROUGH SOFFIT @ KITCHENETTE — 4

1/2" = 1'-0" | 1 / A101

SECTION THROUGH WALL @ BANQUET SEATING — 5

1/2" = 1'-0" | 5 / A504

SECTION AT GARAGE DOOR HEADER — 6

1/2" = 1'-0" | 2 / A301

SECTION THROUGH WALL @TOILET — 8

1 1/2" = 1'-0" | 4 / A110

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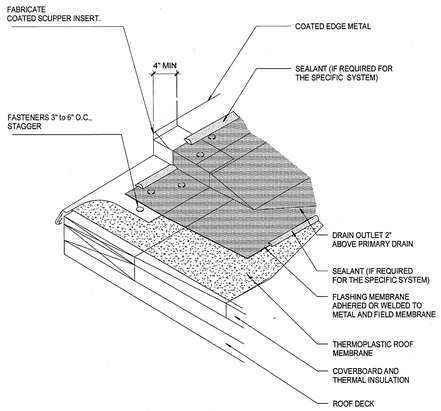
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Wall Sections

A310

PERMIT BACKCHECK



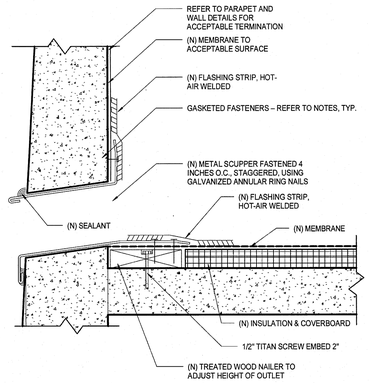
NOTES:

1. OVERFLOW SCUPPER OUTLETS SHALL BE 2" ABOVE PRIMARY DRAINS.

SCUPPER THROUGH RAISED EDGE

ROOF - SCUPPER THROUGH RAISED EDGE | 1

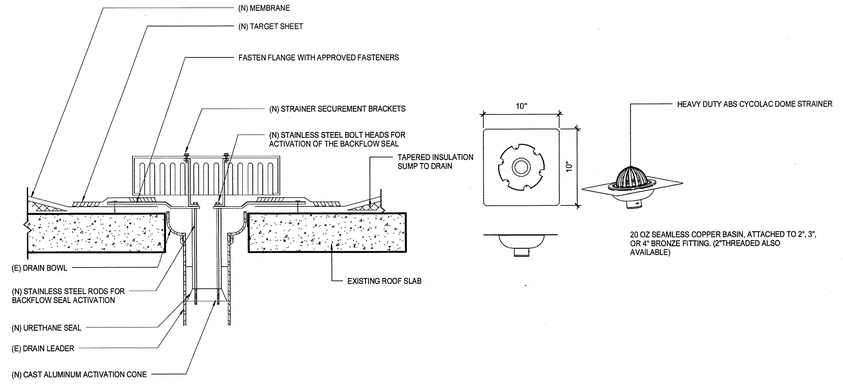
3" = 1'-0" | 1 / A152



NOTE:
1. OVERFLOW SCUPPER OUTLET SHALL BE LOCATED 2" HIGHER THAT THE PRIMARTY IOUTLET.
2. INSTALL ONE OVERFLOW SCUPPER FOR EACH PRIMARY DRAIN.
3. SCUPPER SHALL BE CONSTRUCTED OUT OF COATED SHEET METAL ENABLING IT TO BE HEAT WELDED TO THE MEMBRANE
4. USE GASKETED FASTENERS TO SECURE THE METAL COVER ONTO THE SLEEPER. SIZE AND TYPE SHALL BE NON-CORROSIVE AND APPROVED BY THE CHOSEN ROOFING MANUFACTURER."

ROOF - OVERFLOW DRAINAGE SCUPPER | 2

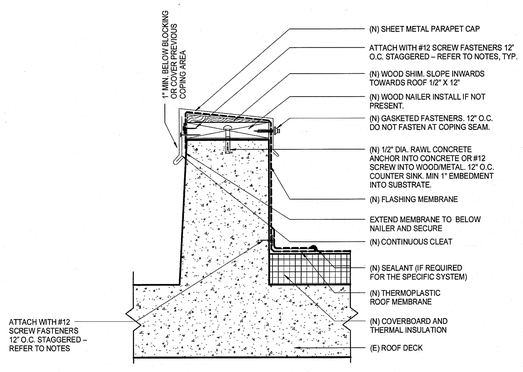
3" = 1'-0" | 1 / A152



NOTES:
1. PROVIDE 3'X3' SUMP TO FACILITATE DRAINAGE.
2. LOWER DRAIN TO DECK LEVEL. REMOVE JOSAM BOWL IF NECESSARY.
3. IF ANOTHER TYPE OF DRAIN INSERT IS PROPOSED, PROVIDE SHOP DRAWINGS TO ENGINEER FOR APPROVAL.

ROOF - DRAIN INSERT WITH SUMP | 3

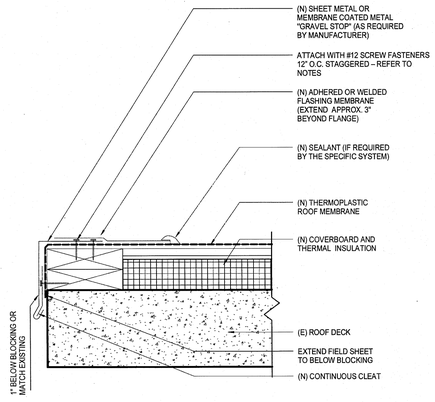
1 1/2" = 1'-0" | 1 / A152



NOTES:
1. METAL EDGE PROFILE MAY DIFFER SLIGHTLY WITH MANUFACTURER.
2. FOR NAILER AND METAL NOSING ATTACHMENT - Perimeter nailer and metal attachment shall meetANSI/SPRI ES-1 - American National Standard Wind Design Standard for Edge Systems Used with Low SlopeRoofing Systems. SINCE SPECIFICS DIFFER FROM MANUFACTURER TO MANUFACTURER, CONTRASHALL SUBMIT FASTENING SPECIFICATIONS FOR THEIR PROPOSED MANUFACTURER AS PART OF SUBMITTAL PROCESS.
3. IF REQUIRED BY MANUFACTURER, INSTALL NAILERS AT HE BASE OF THE WALL (NOT SHOWN ON THIS DRAWING). NAILER THICKNESS SHALL MATCH INSULATION.
4. MEMBRANE AND BASE FLASHING ATTACHMENT METHOD VARIES BASED ON ROOFING SYSTEM. THE ATTACHMENT METHOD MUST BE APPROVED BY THE CHOSEN ROOFING MANUFACTURER
5. USE GASKETED FASTENERS TO SECURE THE METAL COVER ONTO THE SLEEPER. SIZE AND TYPE SHALL BE NON-CORROSIVE AND APPROVED BY THE CHOSEN ROOFING MANUFACTURER."

ROOF - METAL PARAPET CAP (COPING) AND BASE FLASHING | 4

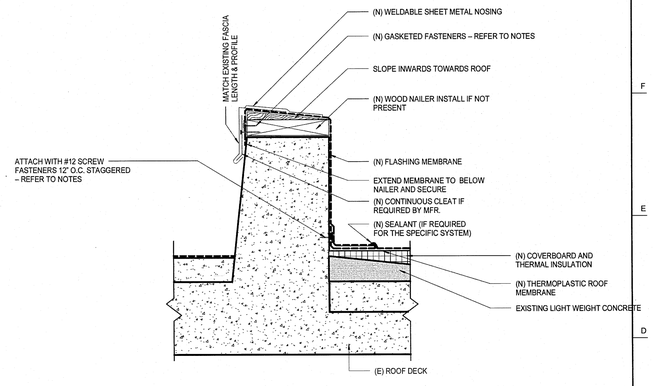
3" = 1'-0" | 1 / A152



NOTES
1. CLEAT SHALL BE 1 LEVEL GAUGE HIGHER THAN EDGING.
2. METAL EDGE DESIGN SHALL OBTAIN SPECIFIED WIND RATINGS. IF EDGE CONFIGURATION FCPROPOSED MANUFACTURER DIFFERS FROM THAT SHOWN, CONTRACTOR SHALL PROVIDE APPROVEDRAWING AS PART OF THE SUBMITTAL PROCESS.
3. MEMBRANE AND BASE FLASHING ATTACHMENT METHOD VARIES BASED ON ROOFING SYSTEM. THE ATTACHMENT METHOD MUST BE APPROVED BY THE CHOSEN ROOFING MANUFACTURER

ROOF - EMBEDDED EDGE METAL FLASHING (NOSING) | 5

3" = 1'-0" | 1 / A152



NOTES:

1. THIS IS AN ALTERNATE DETAIL TO THE USE OF METAL COPING. IT ENABLES SEAMLESS INSTALLATION AS THE LEVEL OF THE ROOF NEARS THE TOP OF THE PARAPET.
2. METAL EDGE PROFILE MAY DIFFER SLIGHTLY WITH MANUFACTURER.
3. CONTRACTOR SHALL OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION.
4. MEMBRANE AND BASE FLASHING ATTACHMENT METHOD VARIES BASED ON ROOFING SYSTEM. THE ATTACHMENT METHOD MUST BE APPROVED BY THE CHOSEN ROOFING MANUFACTURER
5. USE GASKETED FASTENERS TO SECURE THE METAL COVER ONTO THE SLEEPER. SIZE AND TYPE SHALL BE NON-CORROSIVE AND APPROVED BY THE CHOSEN ROOFING MANUFACTURER

ROOF - PARAPET CAP AND BASE FLASHING (alternate) | 6

3" = 1'-0" | 1 / A152

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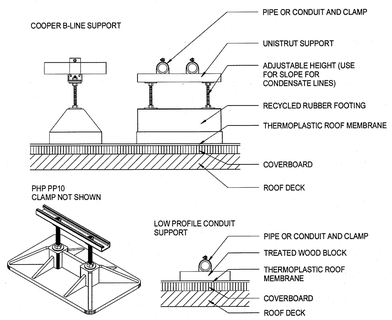
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APPLICATION # : 01-116168
FILE # : 43-H10
AC: _____ FLS: _____
SSS: _____ DATE: FEB 23 2017
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Project No 1115-0130
Date: February 15, 2017
Sheet:

Roof Details

A320

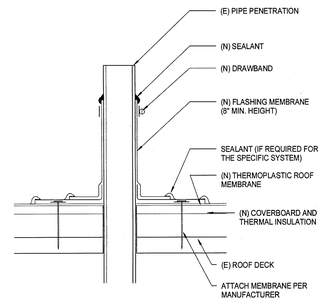
PERMIT BACKCHECK



NOTES:
1. USE THIS DETAIL/SYSTEM TO SECURE CONDENSATE LINES, ELECTRICAL CONDUITS OR OTHER LINES THAT DO NOT NEED TO BE MECHANICALLY ATTACHED TO THE ROOF SUBSTRATE.
2. BASE MAY BE ADHERED TO MEMBRANE TO PREVENT CONDUIT OR LINE FROM MOVING. USE APPROVED SEALANT AND DO NOT PENETRATE MEMBRANE.
3. CONDENSATE LINES SHALL HAVE POSITIVE SLOPE TO DRAIN.
4. USE LOW PROFILE SUPPORT ONLY WHEN EXISTING CONDUIT CANNOT BE RAISED.

ROOF - CONDUIT & PIPE SUPPORT | 1

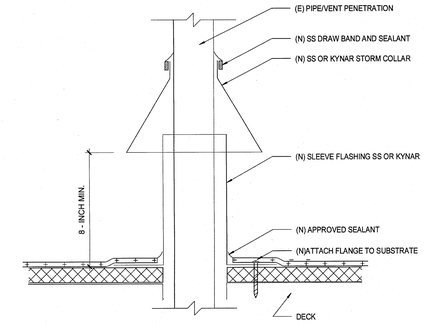
3" = 1'-0"



PIPE OR STAND PENETRATION (FIELD WRAP)

ROOF - PIPE OR STAND PENETRATION (FIELD WRAP) | 2

3" = 1'-0"

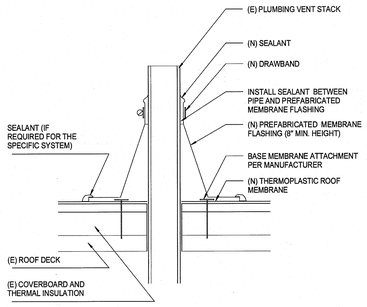


NOTES:
1. USE THIS DETAIL FOR EXISTING PROJECTIONS THAT HAVE SHEET METAL SLEEVE AND STORM COLLARS.
2. INSTALL A NEW SHEET METAL SLEEVE WITH FLANGE ATTACHED INTO THE ROOF.
3. METAL SHALL BE KYNAR COATED OR STAINLESS STEEL 24 GA.

SLEEVE & STORM COLLAR

ROOF - SLEEVE & STORM COLLAR | 3

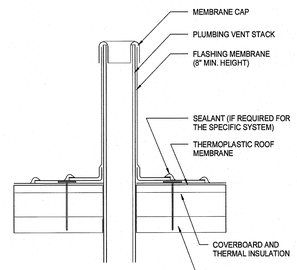
3" = 1'-0"



PLUMBING VENT (PREMANUFACTURED BOOT)

ROOF - PLUMBING VENT (PREMANUFACTURED BOOT) | 4

3" = 1'-0"

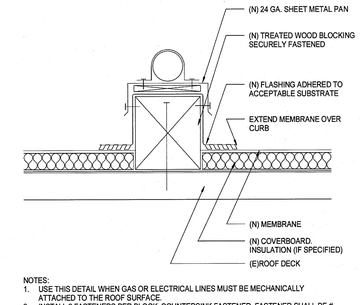


NOTES:
1. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

PLUMBING VENT (FIELD WRAP)

ROOF - PLUMBING VENT (FIELD WRAP) | 5

3" = 1'-0"

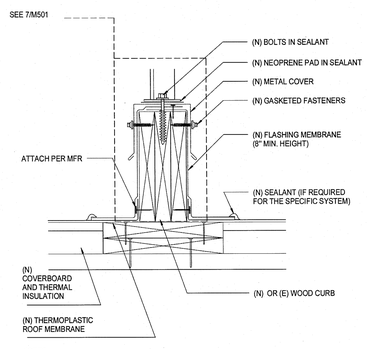


NOTES:
1. USE THIS DETAIL WHEN GAS OR ELECTRICAL LINES MUST BE MECHANICALLY ATTACHED TO THE ROOF SURFACE.
2. INSTALL 2 FASTENERS PER BLOCK. COUNTERSINK FASTENER. FASTENER SHALL BE # 12 SCREWS OR HEAVIER, MINIMUM 1.5" EMBEDMENT INTO DECKING.
3. FASTEN SHEET METAL PAN TO CURB USING SCREWS WITH RUBBER WASHERS.
4. FASTEN GAS LINE TO CURB WITH "U BRACKET. FASTEN "U" BRACKET TO THE SHEET METAL PAN WITH SHEET METAL SCREWS. IF POSSIBLE, DO NOT PENETRATE MEMBRANE. INSTALL WOOD NAILER UNDER METAL CAP AND OVER MEMBRANE COVERED BLOCKING IN ORDER TO PREVENT FASTENER PENETRATION THROUGH TOP OF COVERED BLOCKING.

PROTECTED WOOD SLEEPER SUPPORT FOR GAS LINES

ROOF - PROTECTED WOOD SLEEPER SUPPORT FOR GAS LINES | 6

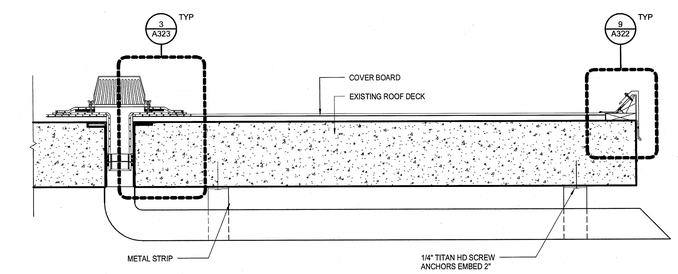
3" = 1'-0"



NOTES:
1. THIS DETAIL SHALL BE USED FOR SLEEPERS THAT MUST BE FLASHED INTO THE ROOF BECAUSE THEY ARE ATTACHED TO THE ROOF DECK AND WHEN THE EQUIPMENT OR EQUIPMENT SUPPORT LEG MUST BE ATTACHED TO THE CURB.
2. SLEEPERS SHALL NOT INHIBIT DRAINAGE.
3. WOOD NAILERS SHALL BE SECURELY ATTACHED TO THE SUBSTRATE.

ROOF - EQUIPMENT SUPPORT CURB | 7

3" = 1'-0" | 1 / A152



DOWNSOUT @ CANOPY | 9

1 1/2" = 1'-0" | 1 / A153

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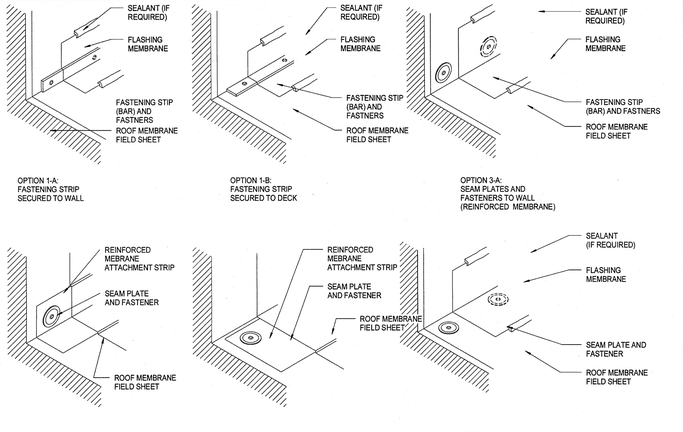
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A321

PERMIT BACKCHECK

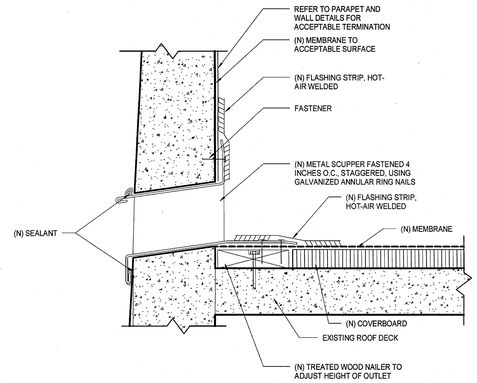


NOTES:

1. SPECIFIC PERIMETER FASTENING MAY DIFFER DEPENDING UPON MANUFACTURER REQUIREMENTS.
2. IF FASTENING REQUIREMENTS FOR THE PROPOSED MANUFACTURER IS DIFFERENT THAN THOSE SHOWN HERE, CONTRACTOR SHALL PROVIDE RECOMMENDED DRAWING FOR APPROVAL WITH SUBMITTALS.

_OPTIONS FOR PERIMETER BASE SECUREMENT — 1

3" = 1'-0"

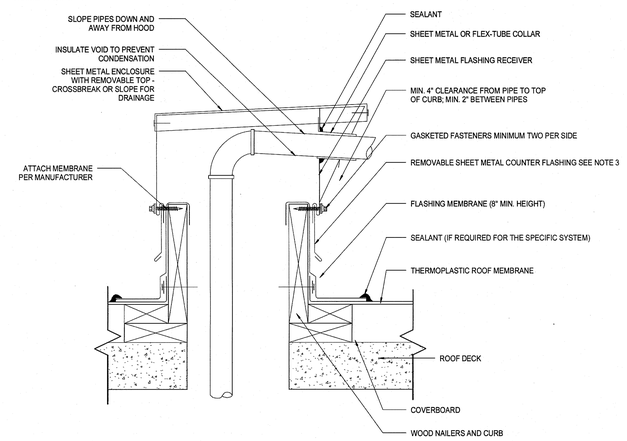


NOTE:

1. OVERFLOW SCUPPERS IF NOT PRESENT SHALL BE INSTALLED AT EACH PRIMARY DRAIN LOCATION.
2. FOR ROOF OVERLAYS, REMOVE EXISTING BASE FLASHING AND SCUPPER INSERTS.
3. FOR OVERFLOW SCUPPERS, OUTLET SHALL BE LOCATED 2" HIGHER THAT THE PRIMARY DRAIN OUTLET. SCUPPER SIZE SHALL BE EQUAL OR GREATER THAN PRIMARY DRAIN.
4. SCUPPER SHALL BE CONSTRUCTED OUT OF COATED SHEET METAL ENABLING IT TO BE HEAT WELDED TO THE MEMBRANE.
5. IF SCUPPER IS NOT LARGE ENOUGH OR LOW ENOUGH, CONTRACTOR SHALL WIDEN AND LOWER.

_ROOF - OVERFLOW DRAINAGE SCUPPER — 2

3" = 1'-0" | 1 / A153

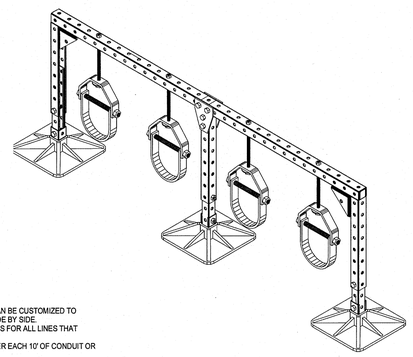


NOTES:

1. THIS DETAIL ILLUSTRATES ANOTHER METHOD OF ELIMINATING PITCH POCKETS AND A METHOD OF GROUPING PIPING & CONTROLS THAT MUST COME UP ABOVE THE ROOF SURFACE.
2. MANY MANUFACTURERS OFFER PREFABRICATED BOOTS AND OTHER MATERIALS FOR THIS PURPOSE. SPECIFICS ON THESE PROPRIETARY DESIGNS VARY GREATLY, AND IF THE PROPOSED MANUFACTURER HAS AN ALTERNATE METHOD OR MATERIAL, CONTRACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL.
3. WHERE THE SHEET METAL ENCLOSURE OVERLAPS THE BASE FLASHING AT LEAST 3", THE REMOVABLE SHEET METAL COUNTERFLASHING IS NOT REQUIRED.
4. WHERE CONTROLS ARE PRESENT AND NOT PIPING, ALL SIDES CAN LOOK LIKE THE LEFT SIDE OF THIS COVER.

_ROOF - PIPE BOX — 3

3" = 1'-0" | 1 / A153

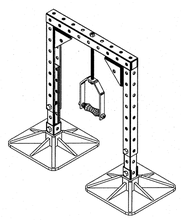


NOTES:

1. PIPE HANGER SYSTEM CAN BE CUSTOMIZED TO ADDRESS MULTIPLE LINES SIDE BY SIDE.
2. USE THESE PIPE HANGERS FOR ALL LINES THAT EXCEED 1.5" DIAMETER.
3. INSTALL ONE PIPE HANGER EACH 10' OF CONDUIT OR PIPE.
4. FOLLOW MANUFACTURER GUIDELINES FOR INSTALLATION.

_ROOF - MULTIPLE PIPE HANGERS — 4

3" = 1'-0"

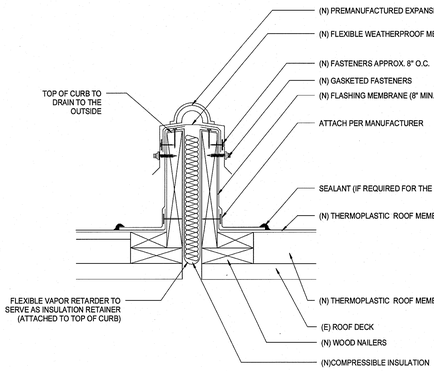


NOTES:

1, USE THESE PIPE HANGERS FOR ALL LINES THAT EXCEED 1.5" DIAMETER.
2. INSTALL ONE PIPE HANGER EACH 10' OF CONDUIT OR PIPE.
3. FOLLOW MANUFACTURER GUIDELINES FOR INSTALLATION.

_ROOF - SINGLE PIPE HANGERS — 5

3" = 1'-0"

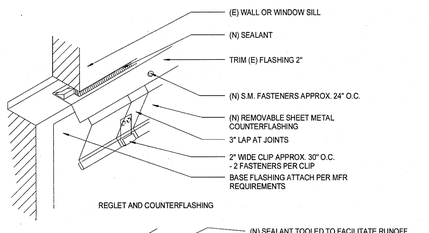


NOTES

1. ALTERNATE CONFIGURATIONS OF EXPANSION JOINTS ARE ACCEPTABLE. SUBMIT SHOP DRAWING.

_ROOF - EXPANSION JOINT — 6

3" = 1'-0" | 1 / A153

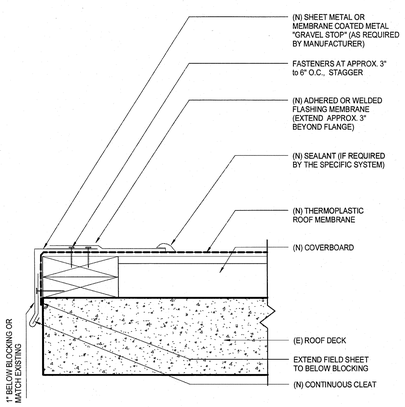


NOTES:

1. WHERE POSSIBLE, USE EXISTING WALL REGLET. IF SINGLE REGLET COUNTERFLASHING EXISTS, IT MAY BE TRIMMED AND BE USED AS A REGLET RECEIVER TO ATTACH SKIRT COUNTERFLASHING.
2. SHEET METAL SHALL BE KYNAR COATED 24 GA.

_ROOF - PERIMETER WALL FLASHINGS — 7

3" = 1'-0"

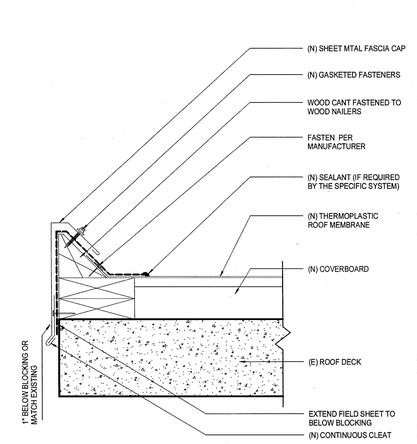


NOTES

1. THIS DETAIL SHALL BE USED AT EDGES WHERE IT IS INTENDED THAT WATER DRAINS OVER THE EDGE.
2. FOR ROOF OVERLAYS, REMOVE EXISTING EDGE METAL SYSTEMS AND BASE FLASHINGS.
3. METAL EDGE SHALL BE COATED 24 GA. PAINT TO MATCH COLOR SCHEME.
4. METAL EDGE DESIGN SHALL OBTAIN SPECIFIED WIND RATINGS. IF EDGE CONFIGURATION FOR PROPOSED MANUFACTURER DIFFERS FROM THAT SHOWN, CONTRACTOR SHALL PROVIDE APPROVED DRAWING AS PART OF THE SUBMITTAL PROCESS.
5. PERIMETER FLASHINGS SHALL MEET ANSI/SPRU ES-1 - AMERICAN NATIONAL STANDARD WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.

_ROOF - PERIMETER FLAT EDGE FOR DRAINAGE — 8

3" = 1'-0"



NOTES

1. METAL SHALL BE 24 GA KYNAR COATED. CLEAT SHALL BE 22 GA.
2. FOLLOW ALL SMACNA GUIDELINES FOR METAL DESIGN AND INSTALLATION.
3. PERIMETER FLASHINGS SHALL MEET ANSI/SPRI ES-1 - AMERICAN NATIONAL STANDARD WIND DESIGN FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.
4. FOR ROOF OVERLAYS, REMOVE EXISTING EDGE METAL SYSTEMS AND BASE FLASHINGS.

_ROOF - RAISED EDGE — 9

3" = 1'-0" | 1 / A153

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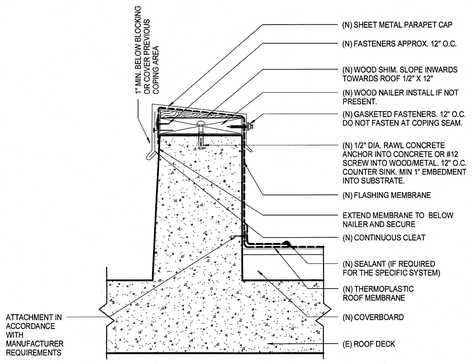
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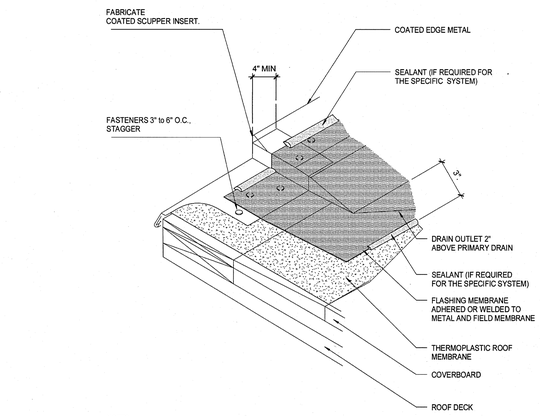
PERMIT BACKCHECK



NOTES:
1. METAL EDGE PROFILE MAY DIFFER SLIGHTLY WITH MANUFACTURER.
2. FOR NAILER AND METAL NOSING ATTACHMENT - PERIMETER NAILER AND METAL ATTACHMENT SHALL MEET ANSI/SPRI ES-1 - AMERICAN STANDARD WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS. SINCE SPECIFICS DIFFER FROM MANUFACTURER TO MANUFACTURER, CONTRACTOR SHALL SUBMIT FASTENING SPECIFICATIONS FOR THEIR PROPOSED MANUFACTURER AS PART OF THE SUBMITTAL PROCESS.
3. IF REQUIRED BY MANUFACTURER, INSTALL NAILERS AT HE BASE OF THE WALL (NOT SHOWN ON THIS DRAWING). NAILER THICKNESS SHALL MATCH INSULATION. ATTACH PER ANSI/SPRI ES-1 AS DESCRIBED IN NOTE #4.
4. ALL PARAPET WALLS TO RECEIVE NEW METAL CAP FLASHING.
5. FOR ROOF OVERLAYS, REMOVE EXISTING EDGE METAL SYSTEMS AND BASE FLASHINGS.

_ROOF - PERIMETER PARAPET WALL — 1

3" = 1'-0" | 1 / A153

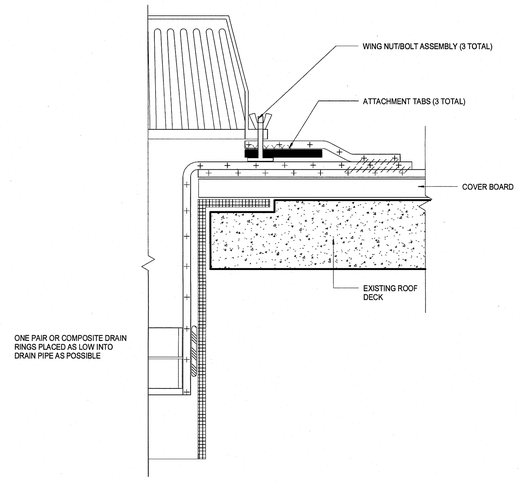


NOTES:

1. OVERFLOW SCUPPER OUTLETS SHALL BE 2" ABOVE PRIMARY DRAINS.
2. FOR ROOF OVERLAYS, REMOVE EXISTING EDGE METAL SYSTEM.

ROOF - SCUPPER THROUGH RAISED EDGE — 2

3" = 1'-0" | 1 / A153



NOTES ON DRAIN INSERT:
1. PROVIDE 3'X3' SUMP TO FACILITATE DRAINAGE.
2. LOWER DRAIN TO DECK LEVEL. REMOVE JOSAM BOWL IF NECESSARY.
3. USE THIS DRAIN DETAIL WHEN THE DRAIN DIAMETER IS TOO SMALL FOR DRAIN INSERTS
4. DRAWING COURTESY OF DUROLAST.

_ROOF - DRAIN BOOT FOR SMALL OUTLETS — 3

3" = 1'-0" | 1 / A153

SUMP AREA FIELD SEAM REQUIREMENTS.

A. IF FIELD SEAM EDGE IS WITHIN 9" OF DRAIN COMPRESSION RING, TARGET PATCH REQUIRED.

B. IF FIELDS SEAM EDGE IS WITHIN 9" TO 18" OF DRAIN COMPRESSION RING, HEAT WELD A LAYER OF FLASHING (UNSUPPORTED) MEMBRANE CENTERED OVER SEAM EDGE. FLASHING MUST EXTEND 3" MIN. BEYOND EDGE OF SUMP.

NOTES:
1. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" BEYOND CLAMPING RING AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
3. FIRESTONE WATERBLOCK MIN 1/2 OF 10 OZ. TUBE PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.
5. IN REROOF APPLICATIONS: REMOVE EXISTING FLASHING DOWN TO METAL BOWL. REPAIR OR REPLACE BROKEN DRAINS COMPONENTS.

_ROOF - DRAIN INSERT BY FIRESTONE — 4

3" = 1'-0"

NOTES:
1. THIS DETAIL SHALL BE USED FOR ROOFTOP EQUIPMENT THAT IS NOT ATTACHED TO THE CURB AND MAY SIT ON A SLEEPER THAT IS NOT ATTACHED TO THE ROOF.
2. WEIGHT OF UNIT SHALL BE EVENLY DISTRIBUTED ON SLEEPERS.
3. SLEEPERS SHALL NOT INHIBIT DRAINAGE.
4. ALL EXISTING SLEEPERS SHALL BE REPLACED WITH NEW

_ROOF - EXPOSED WOOD SLEEPER — 5

3" = 1'-0" | 1 / A153

SECTION AT COLUMN CAPITAL — 6

1 1/2" = 1'-0" | 1 / A131

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Mt. Pleasant High School

1750 S. White Road
San Jose, CA 95127

owner:
East Side Union High School District
Facilities & Planning Division
830 North Capitol Avenue
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408.347.5115 fax

architect:
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Suite 300
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United States
510-834-1629 ext. 102 voice
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electrical engineer:
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Alameda CA 94501
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510.263.1531 voice

civil engineer:
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LICENSED ARCHITECT — ROBERT MARK BAUM — 22017 — STATE OF CALIFORNIA

Number	Revision Description	Date

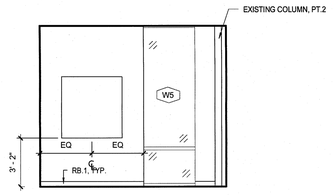
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APPLICATION # : 01-116168
FILE # : 43-H4
AC: JWD FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Roof Details

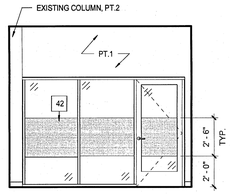
A323

PERMIT BACKCHECK



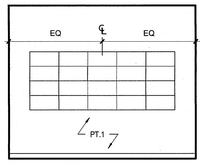
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1/4" = 1'-0" | 1 / A101



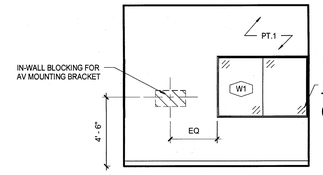
OFFICE/STUDY 1 - EAST | 2

1/4" = 1'-0" | 1 / A101



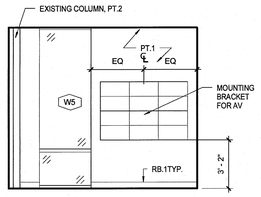
OFFICE/STUDY 1 - SOUTH | 3

1/4" = 1'-0" | 1 / A101



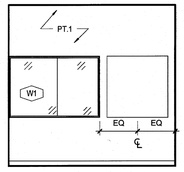
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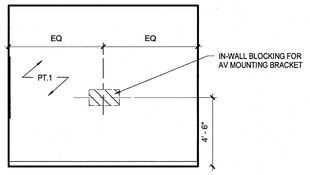
OFFICE/STUDY 2 - NORTH | 5

1/4" = 1'-0" | 1 / A101



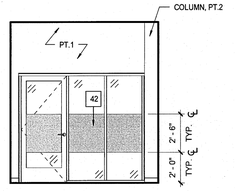
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1/4" = 1'-0" | 1 / A101



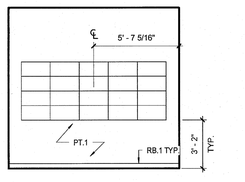
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1/4" = 1'-0" | 1 / A101



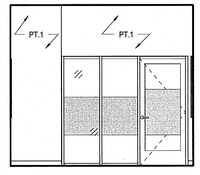
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1/4" = 1'-0" | 1 / A101



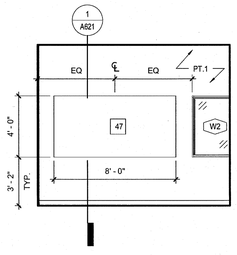
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1/4" = 1'-0" | 1 / A101



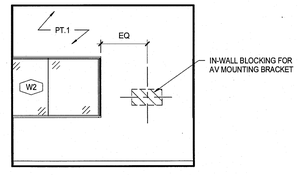
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1/4" = 1'-0" | 1 / A101



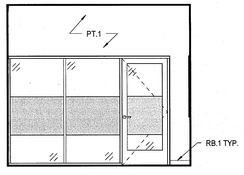
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1/4" = 1'-0" | 1 / A101



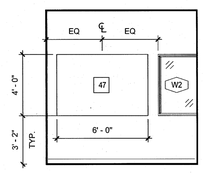
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1/4" = 1'-0" | 1 / A101



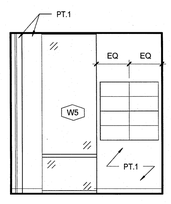
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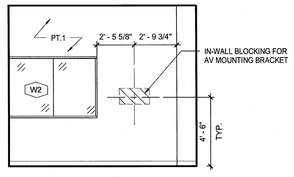
OFFICE/STUDY 4 - EAST | 14

1/4" = 1'-0" | 1 / A101



OFFICE/STUDY 4 - WEST | 15

1/4" = 1'-0" | 1 / A101



OFFICE/STUDY 4 - SOUTH | 16

1/4" = 1'-0" | 1 / A101

General Notes:

1. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend

Key Value	Keynote Text
42	GLAZING WITH FILM - FL.1
47	CLARIDGE WHITE BOARD (1/A621)

NOTES:

1. ALL INTERIOR WALLS TO BE PAINTED PT.1, UNO
2. ALL EXPOSED EXISTING CONCRERTE COLUMNS TO BE PAINTED PT.2, UNO

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LICENSED ARCHITECT ROBERT MARK BAILEY STATE OF CALIFORNIA

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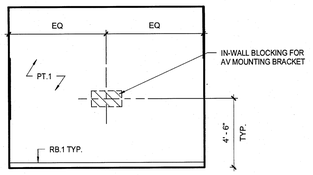
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FILE # : 43-H10
AC: FLS: DX
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Interior Elevations

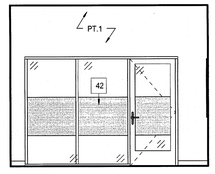
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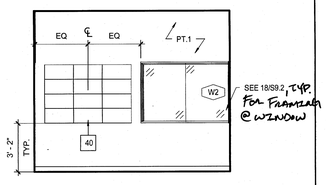
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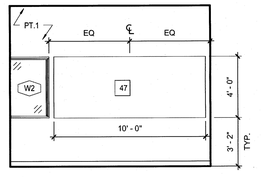
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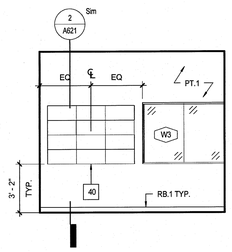
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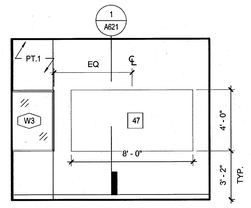
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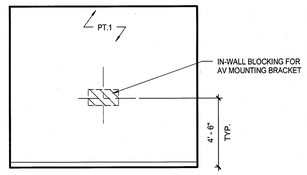
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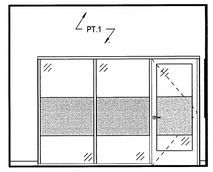
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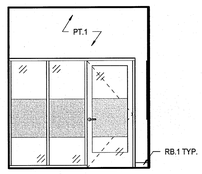
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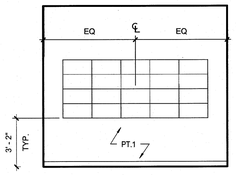
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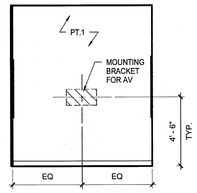
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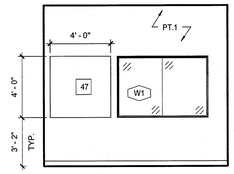
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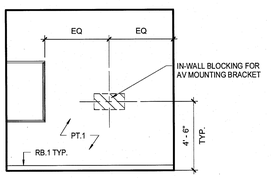
OFFICE/STUDY 7 - SOUTH | 11

1/4" = 1'-0" | 1 / A101



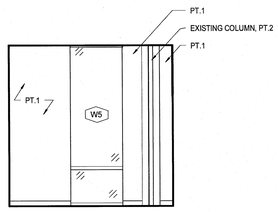
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1/4" = 1'-0" | 1 / A101



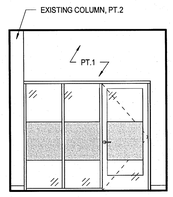
OFFICE/STUDY 8 - NORTH | 13

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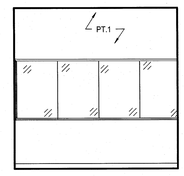
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1/4" = 1'-0" | 1 / A101



OFFICE/STUDY 8 - SOUTH | 15

1/4" = 1'-0" | 1 / A101



OFFICE/STUDY 8 - WEST | 16

1/4" = 1'-0" | 1 / A101

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Keynote Legend

Key Value	Keynote Text
40	ACOUSTIC WALL PANEL
42	GLAZING WITH FILM - FL.1
47	CLARIDGE WHITE BOARD (1/A621)

NOTES:

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2. ALL EXPOSED EXISTING CONCRERTE COLUMNS TO BE PAINTED PT.2, UNO

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LICENSED ARCHITECT ROBERT MARK BANK 2017 STATE OF CALIFORNIA

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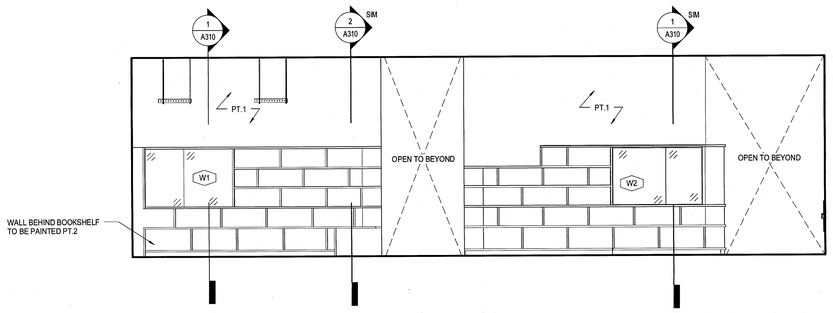
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: SSS: FLS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Elevations

A502

PERMIT BACKCHECK

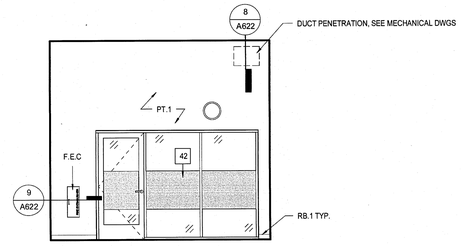


STUDY LOUNGE 1 - EAST

1

1/4" = 1'-0"

1 / A101

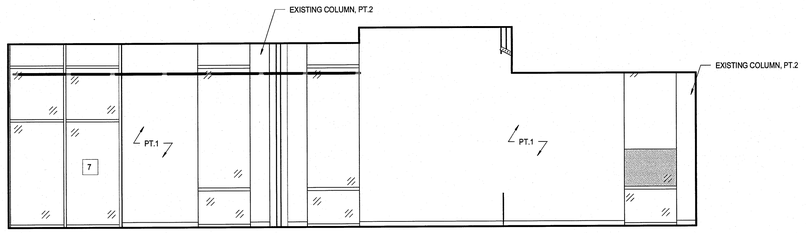


STUDY LOUNGE 1 - SOUTH

2

1/4" = 1'-0"

1 / A101

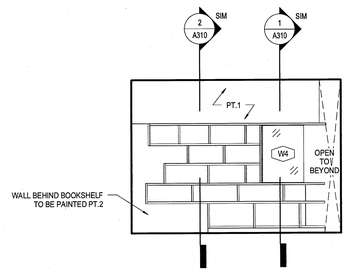


STUDY LOUNGE 1 - WEST

3

1/4" = 1'-0"

1 / A101

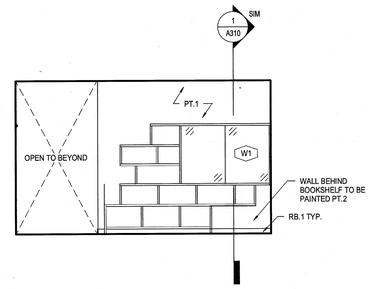


STUDY LOUNGE 2 - SOUTH

4

1/4" = 1'-0"

1 / A101

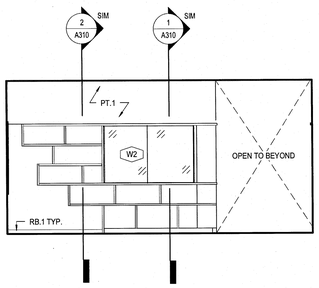


STUDY LOUNGE 2 - WEST

5

1/4" = 1'-0"

1 / A101

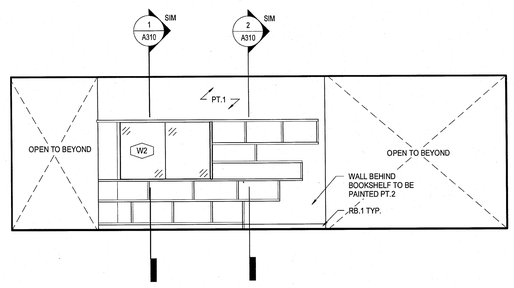


STUDY LOUNGE 3 - NORTH

6

1/4" = 1'-0"

1 / A101



STUDY LOUNGE 3 - NORTHEAST

7

1/4" = 1'-0"

1 / A101

General Notes:

1. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend	
Key Value	**Keynote Text**
7	EXTERIOR STOREFRONT GLAZING ASSEMBLY, I.G.U
42	GLAZING WITH FILM - FL.1

NOTES:

1. ALL INTERIOR WALLS TO BE PAINTED PT.1, UNO
2. ALL EXPOSED EXISTING CONCRERTE COLUMNS TO BE PAINTED PT.2, UNO

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LICENSED ARCHITECT
ROBERT MARK BAINE
2017
STATE OF CALIFORNIA

Number	Revision Description	Date

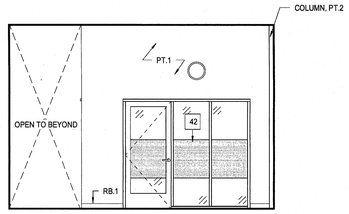
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: FLS:
DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Elevations

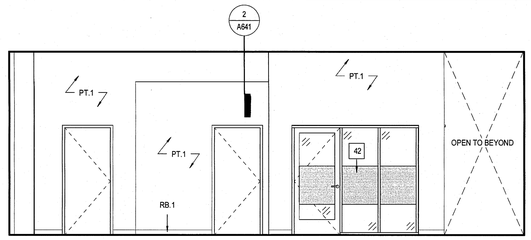
A503

PERMIT BACKCHECK



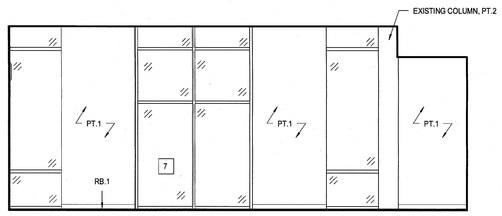
STUDY LOUNGE 4 - NORTH | 1

1/4" = 1'-0" | 1 / A101



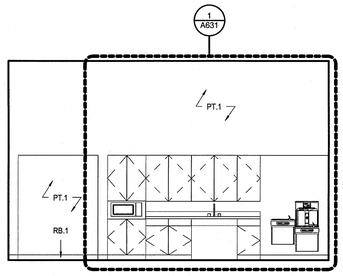
STUDY LOUNGE 4 - SOUTH | 2

1/4" = 1'-0" | 1 / A101



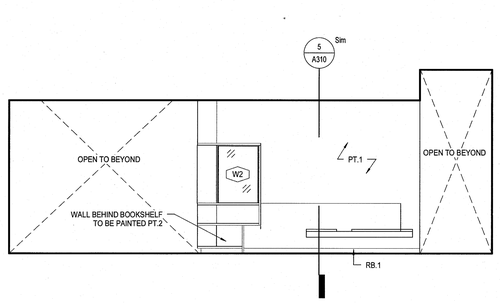
STUDY LOUNGE 4 - WEST | 3

1/4" = 1'-0" | 1 / A101



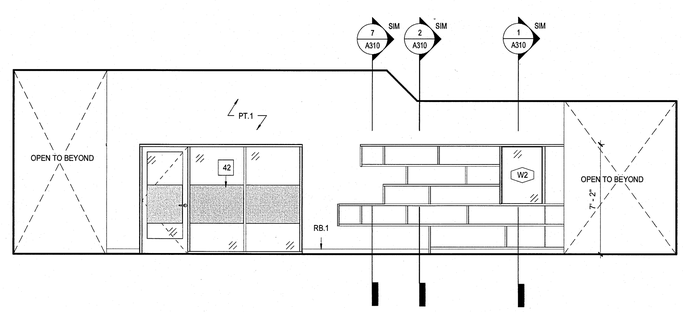
STUDY LOUNGE 4 - CASEWORK | 4

1/4" = 1'-0" | 5 / A110



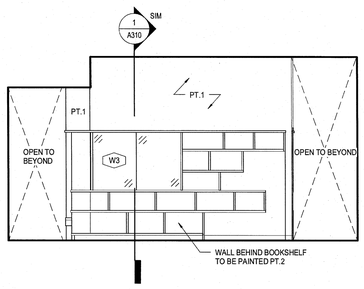
CIRCULATION - NORTH | 5

1/4" = 1'-0" | 1 / A101



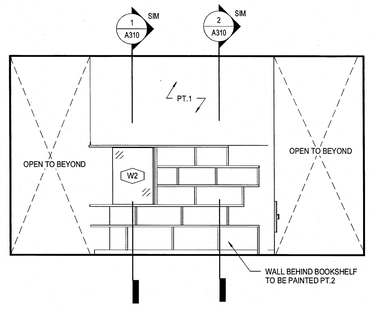
CIRCULATION - SOUTHEAST | 6

1/4" = 1'-0" | 1 / A101



CIRCULATION - SOUTHWEST | 7

1/4" = 1'-0" | 1 / A101



CIRCULATION - WEST | 8

1/4" = 1'-0" | 1 / A101

General Notes:

1. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend	
Key Value	**Keynote Text**
7	EXTERIOR STOREFRONT GLAZING ASSEMBLY, I.G.U
42	GLAZING WITH FILM - FL.1

NOTES:

1. ALL INTERIOR WALLS TO BE PAINTED PT.1, UNO
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Number	Revision Description	Date

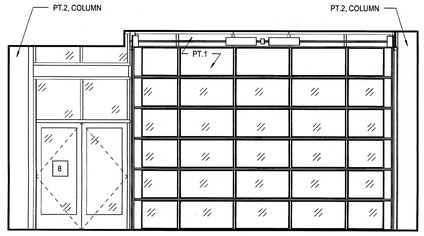
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Interior Elevations

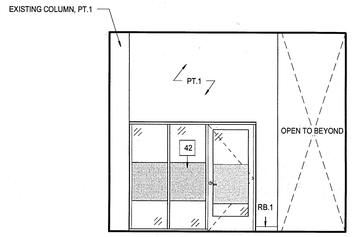
A504

PERMIT BACKCHECK



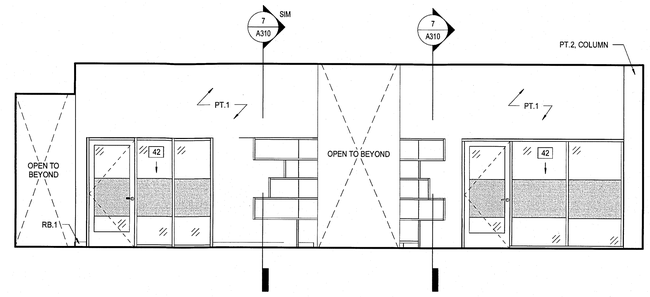
NORTH ENTRANCE - NORTH | 1

1/4" = 1'-0" | 1 / A101



NORTH ENTRANCE - EAST | 2

1/4" = 1'-0" | 1 / A101



NORTH ENTRANCE - WEST | 3

1/4" = 1'-0" | 1 / A101

General Notes:

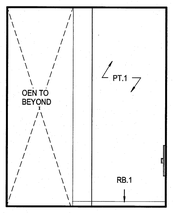
1. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend

Key Value	Keynote Text
8	NEW STOREFRONT WITH DOUBLE DOORS
42	GLAZING WITH FILM - FL.1

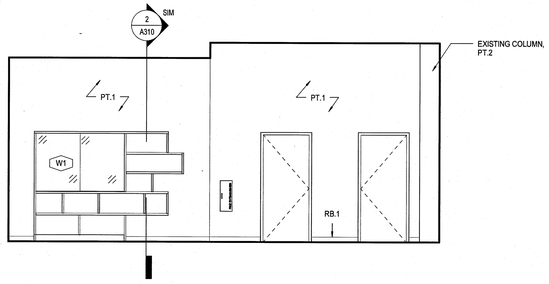
NOTES:

1. ALL INTERIOR WALLS TO BE PAINTED PT.1, UNO
2. ALL EXPOSED EXISTING CONCRERTE COLUMNS TO BE PAINTED PT.2, UNO



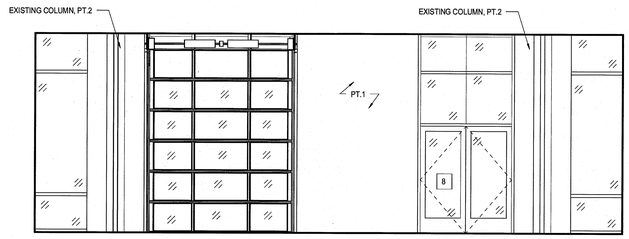
SOUTH ENTRANCE - NORTH | 4

1/4" = 1'-0" | 1 / A101



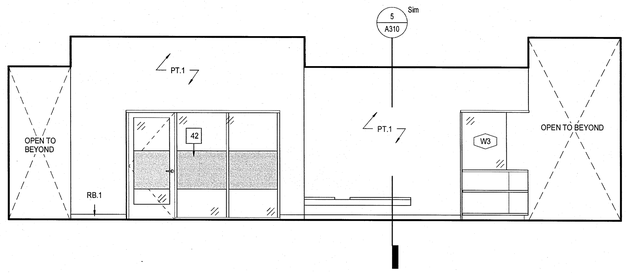
SOUTH ENTRANCE - EAST | 5

1/4" = 1'-0" | 1 / A101



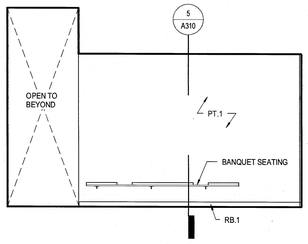
SOUTH ENTRANCE - SOUTH | 6

1/4" = 1'-0" | 1 / A101



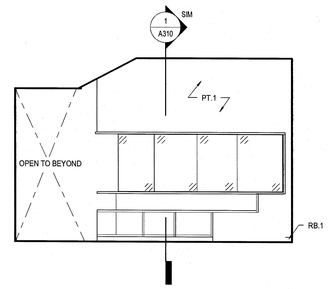
SOUTH ENTRANCE - NORTHWEST | 7

1/4" = 1'-0" | 1 / A101



LIBRARY - NORTH | 8

1/4" = 1'-0" | 1 / A101



LIBRARY - EAST | 9

1/4" = 1'-0" | 1 / A101

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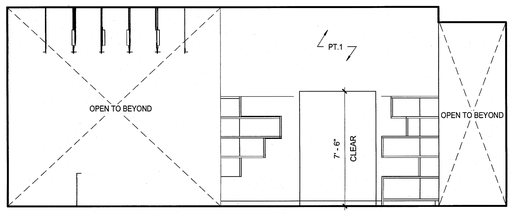
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Elevations

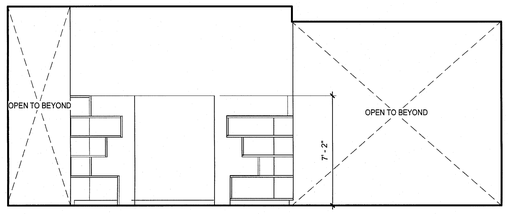
A505

PERMIT BACKCHECK



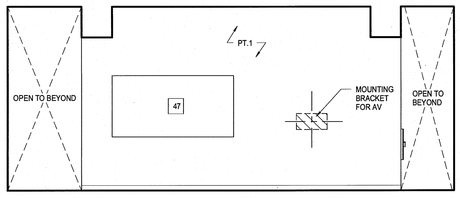
ALCOVE - NORTH | **1**

1/4" = 1'-0" | 1 / A101



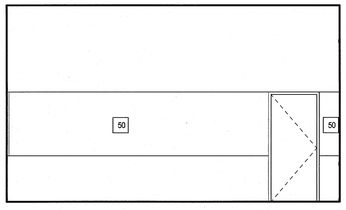
ALCOVE - SOUTH | **2**

1/4" = 1'-0" | 1 / A101



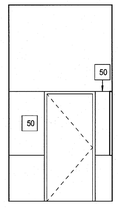
CAFE - SOUTHEAST | **3**

1/4" = 1'-0" | 1 / A101



ELECTRICAL CLOSET 19 - NORTH | **4**

1/4" = 1'-0" | 1 / A101



ELECTRICAL CLOSET 19 - WEST | **5**

1/4" = 1'-0" | 1 / A101

General Notes:

1. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES

Keynote Legend	
Key Value	**Keynote Text**
47	CLARIDGE WHITE BOARD (1/A621)
50	2" DUCT LINER

- ATTACH DUCT LINER W/ #12 S.M.S. @ 12" O.C. @ EA. STUD.

NOTES:

1. ALL INTERIOR WALLS TO BE PAINTED PT.1, UNO
2. ALL EXPOSED EXISTING CONCRETE COLUMNS TO BE PAINTED PT.2, UNO

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LICENSED ARCHITECT ROBERT MARK BAUM 20017 STATE OF CALIFORNIA

Number	Revision Description	Date

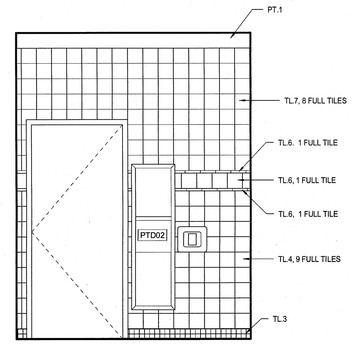
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-310
AC: SSS: WJB
FLS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Elevations

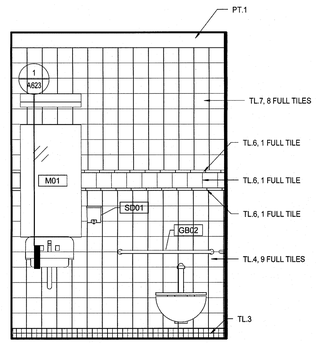
A506

PERMIT BACKCHECK



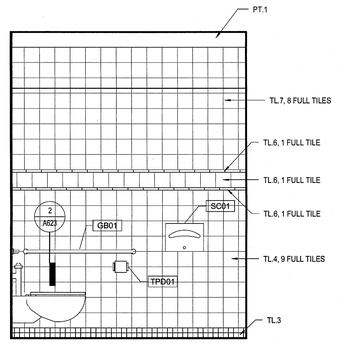
RESTROOM 1 - NORTH | **1**

1/2" = 1'-0" | 4 / A110



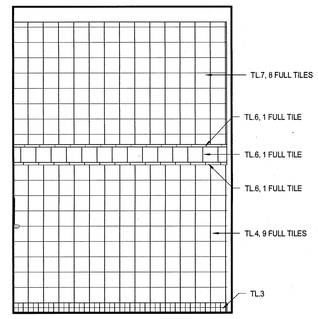
RESTROOM 1 - EAST | **2**

1/2" = 1'-0" | 4 / A110



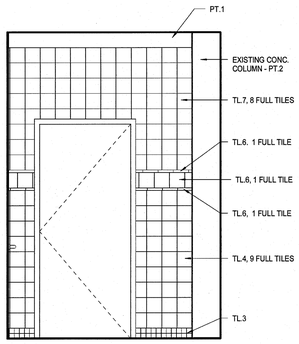
RESTROOM 1 - SOUTH | **3**

1/2" = 1'-0" | 4 / A110



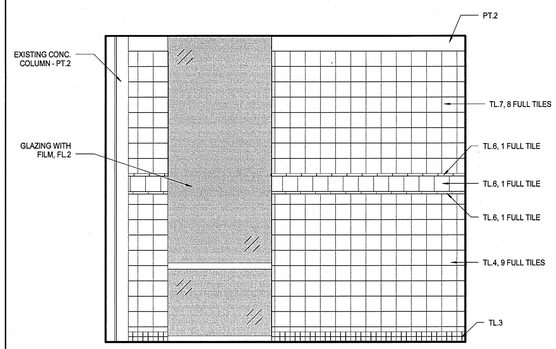
RESTROOM 1 - WEST | **4**

1/2" = 1'-0" | 4 / A110



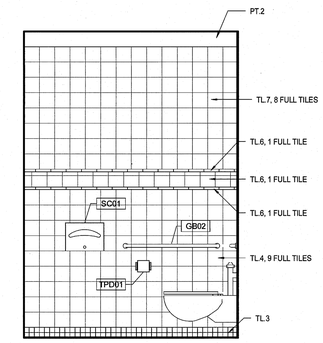
RESTROOM 2 - NORTH | **5**

1/2" = 1'-0" | 4 / A110



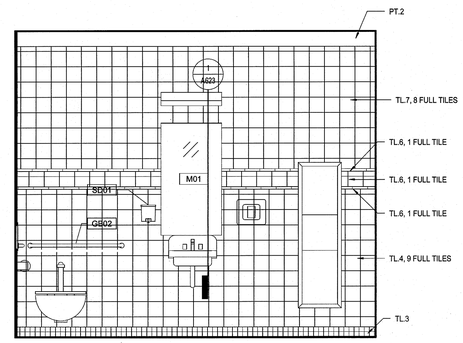
RESTROOM 2 - EAST | **6**

1/2" = 1'-0" | 4 / A110



RESTROOM 2 - SOUTH | **7**

1/2" = 1'-0" | 4 / A110



RESTROOM 2 - WEST | **8**

1/2" = 1'-0" | 4 / A110

Specialty Equipment Schedule		
Type Mark	Type	Comments
GB01	Grab Bar-3D 3' 6"	RESTROOM 1
GB02	Grab Bar-3D 3'	RESTROOM 2
GB02	Grab Bar-3D 3'	RESTROOM 2
GB02	Grab Bar-3D 3'	RESTROOM 2
M01	Mirror - 44" x 24"	RESTROOM 2
M01	Mirror - 44" x 24"	RESTROOM 1
PTD02	Dispenser - Paper Towel + Trash	RESTROOM 1
SC01	Dispenser - Seat Cover	RESTROOM 1
SC01	Dispenser - Seat Cover	RESTROOM 2
SD01	Dispenser - Soap	RESTROOM 1
SD01	Dispenser - Soap	RESTROOM 2
TPD01	Dispenser-Toilet Paper	RESTROOM 1
TPD01	Dispenser-Toilet Paper	RESTROOM 2

NOTES:

1. ALL INTERIOR WALLS TO BE PAINTED PT.1, UNO
2. ALL EXPOSED EXISTING CONCRERTE COLUMNS TO BE PAINTED PT.2, UNO

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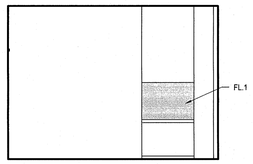
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-1100
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Elevations

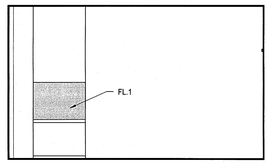
A507

PERMIT BACKCHECK



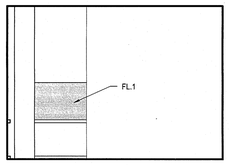
STUDY LOUNGE 2 - NORTH | **1**

1/4" = 1'-0" | 1 / A101



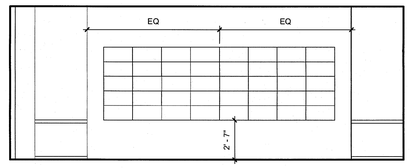
STUDY LOUNGE 2 - EAST | **2**

1/4" = 1'-0" | 1 / A101



STUDY LOUNGE 1 - NORTH | **3**

1/4" = 1'-0" | 1 / A101



STUDY LOUNGE 3 - WEST | **4**

1/4" = 1'-0" | 1 / A101

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2017
STATE OF CALIFORNIA

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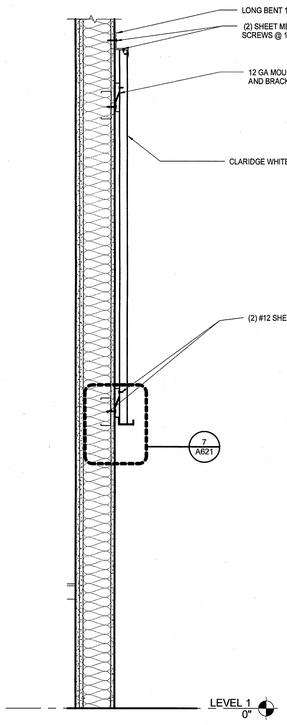
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Elevations

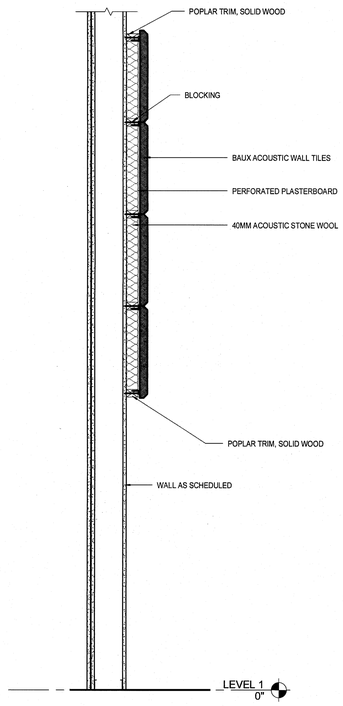
A508

PERMIT BACKCHECK



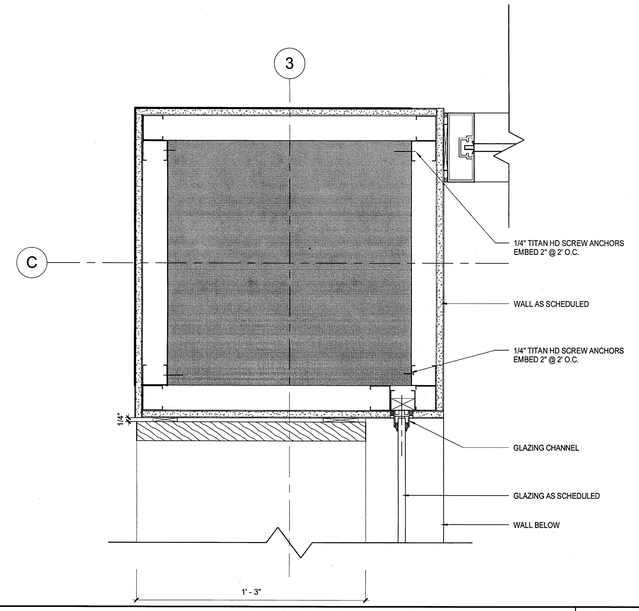
TYP. SECTION AT MARKER BOARD — 1

1 1/2" = 1'-0" | 11 / A501



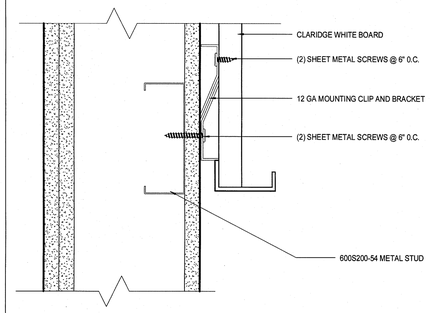
TYP. SECTION AT ACOUSTIC WALL PANEL — 2

1 1/2" = 1'-0" | 5 / A502



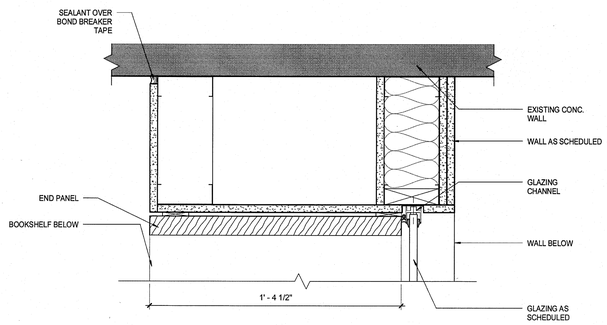
FURRING WALL @ COLUMN — 4

3" = 1'-0" | 1 / A101



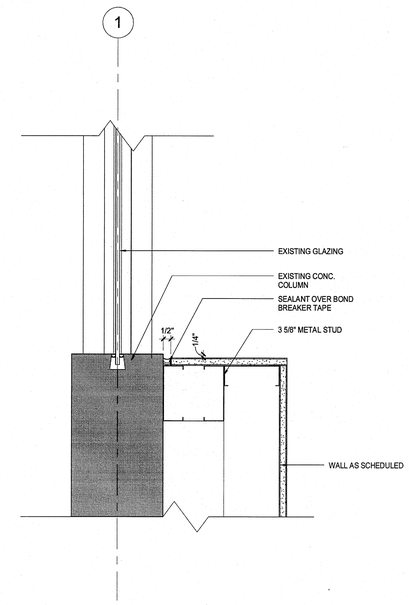
SECTION AT TYP. MARKER TRAY — 7

6" = 1'-0" | 1 / A621



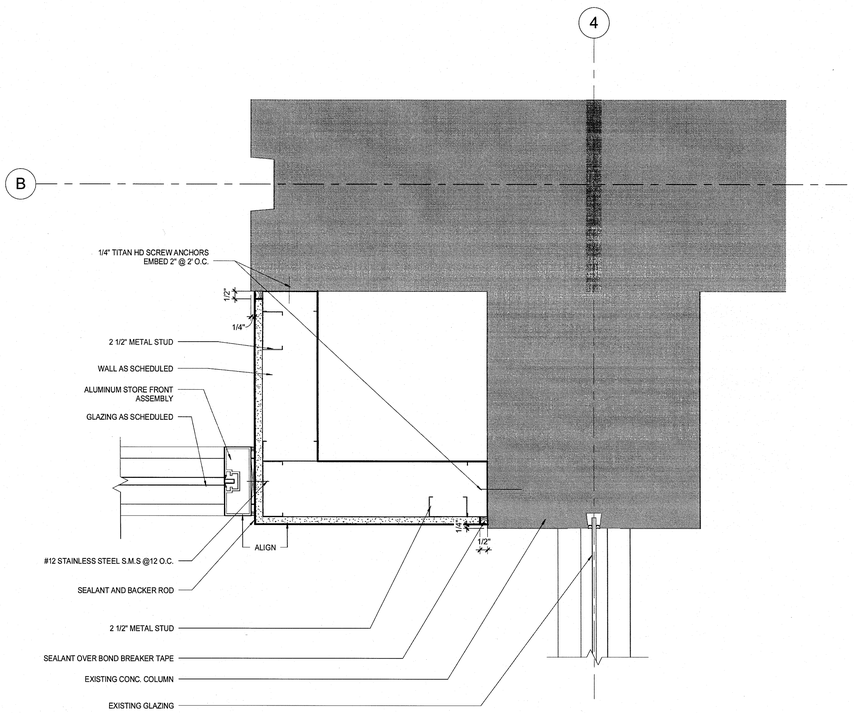
WINDOW JAMB @ EXISTING CONCRETE WALL — 5

3" = 1'-0" | 1 / A101



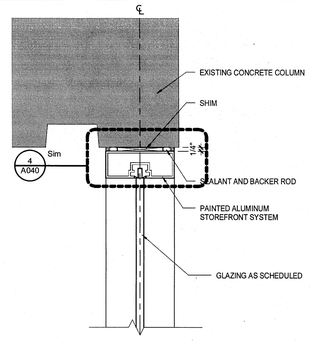
DETAIL @ FURRING WALL — 8

3" = 1'-0" | 1 / A101



PLAN AT EXISTING COL. — 3

3" = 1'-0" | 1 / A101



TYP. JAMB @ CONC. COLUMN — 9

3" = 1'-0" | 1 / A101

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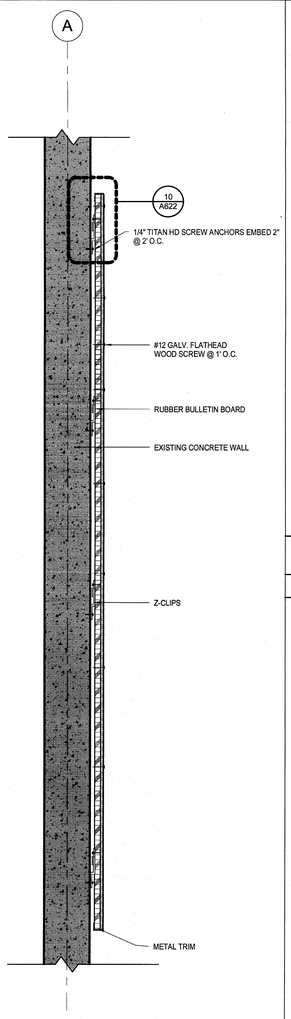
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APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: FLS: DATE FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Interior Details

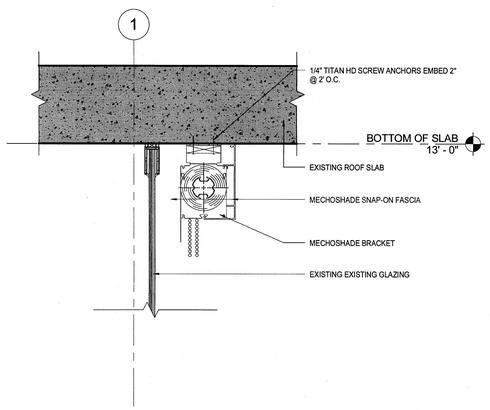
A621

PERMIT BACKCHECK



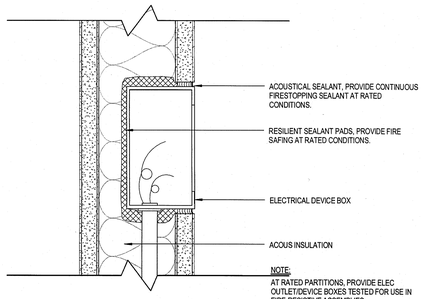
RUBBER BULLETIN BOARD — 1

1 1/2" = 1'-0" | 1 / A101



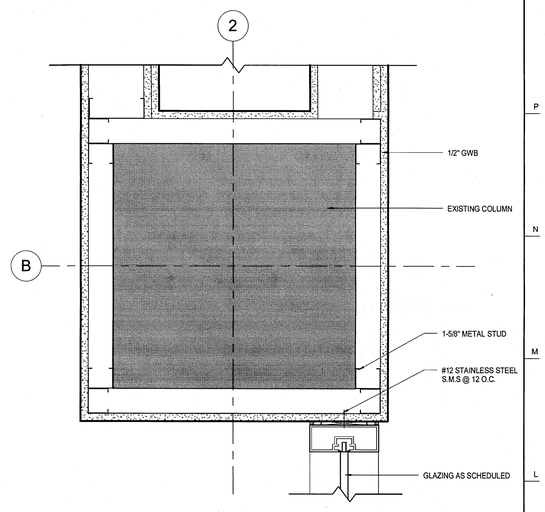
MECHO SHADE @ STUDY — 2

3" = 1'-0" | 1 / A131



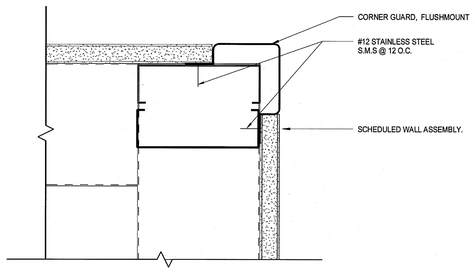
ELECTRIAL FIXTURES AT ACOUSTIC PARTITIONS — 3

6" = 1'-0"



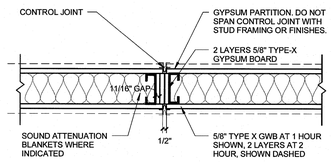
FURRED OUT COLUMN — 4

3" = 1'-0" | 1 / A101



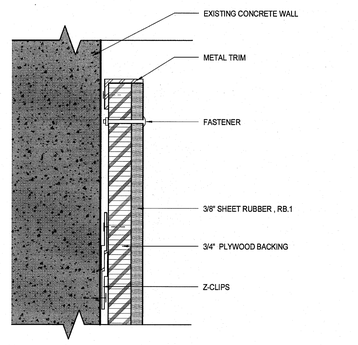
CORNER GUARD, TYP. — 5

6" = 1'-0" | 4 / A110



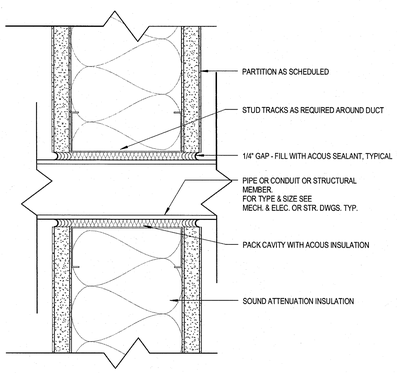
CONTROL JOINT AT RATED GYPSUM WALL — 6

1 1/2" = 1'-0"



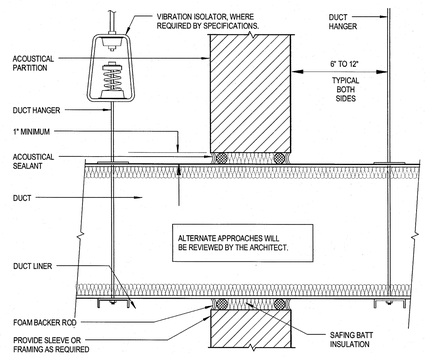
RUBBER BULLETIN BOARD TRIM — 10

6" = 1'-0" | 1 / A622



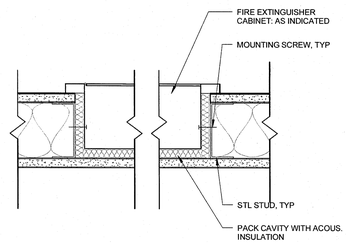
PIPE PENETRATION THRU NON-RATED ACOUSTICAL PARTITION — 7

6" = 1'-0"



DUCT PENETRATION AT ACOUSTIC PARTITION — 8

1" = 1'-0" | 2 / A503



FIRE EXTINGUISHER CABINET IN NON-RATED PARTITION — 9

3" = 1'-0" | 2 / A503

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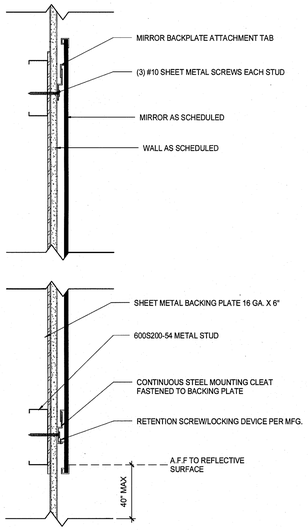
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: SSS: DWD
FLS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Interior Details

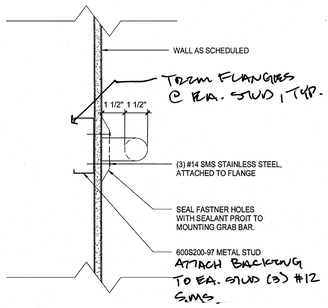
A622

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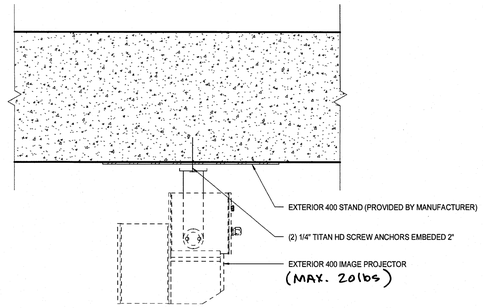
SECTION MIRROR TYP. | 1

3" = 1'-0" | 2 / A507



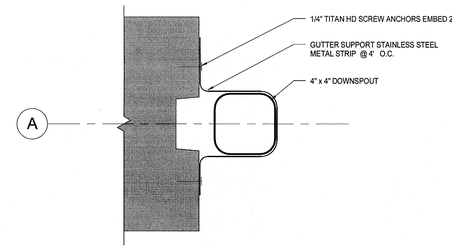
GRAB BAR ANCHORAGE DETAIL | 2

3" = 1'-0" | 3 / A507



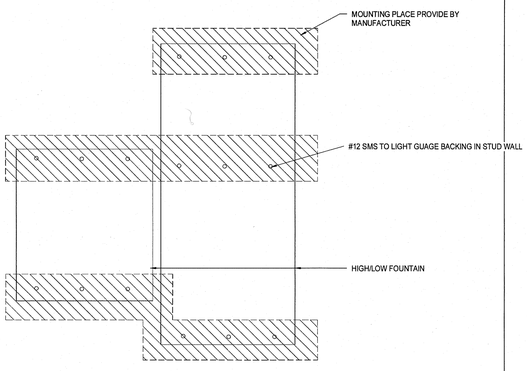
EXTERIOR PROJECTOR | 3

3" = 1'-0" | 1 / A131



DOWNSPOUT, TYP. | 4

3" = 1'-0" | 1 / A101



WATER FOUNTAIN MOUNTING PLATE | 5

1 1/2" = 1'-0" | 1 / A631

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No. C-23017
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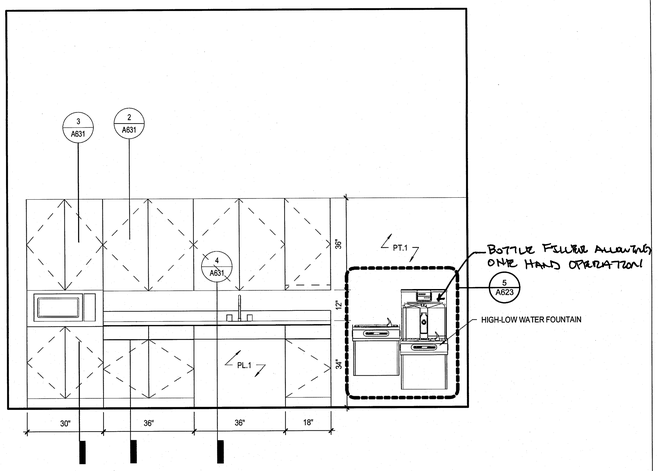
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FILE # : 43-3110
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Interior Details

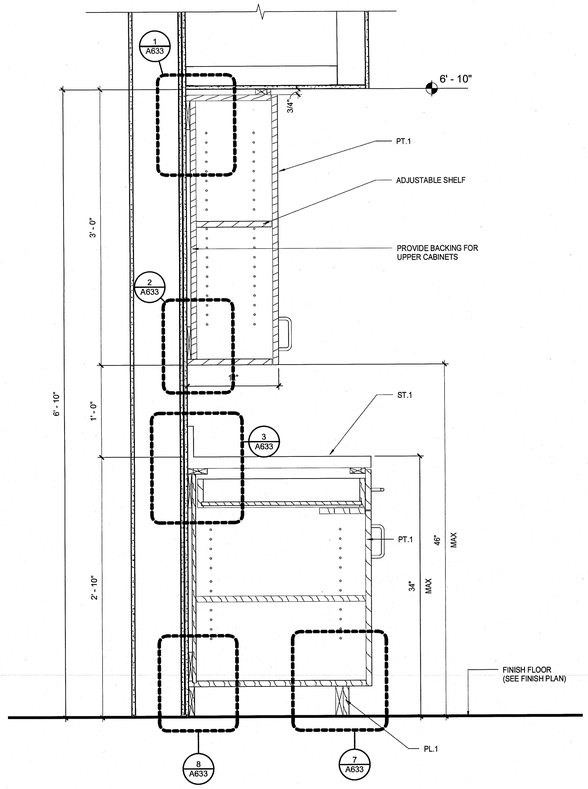
A623

PERMIT BACKCHECK



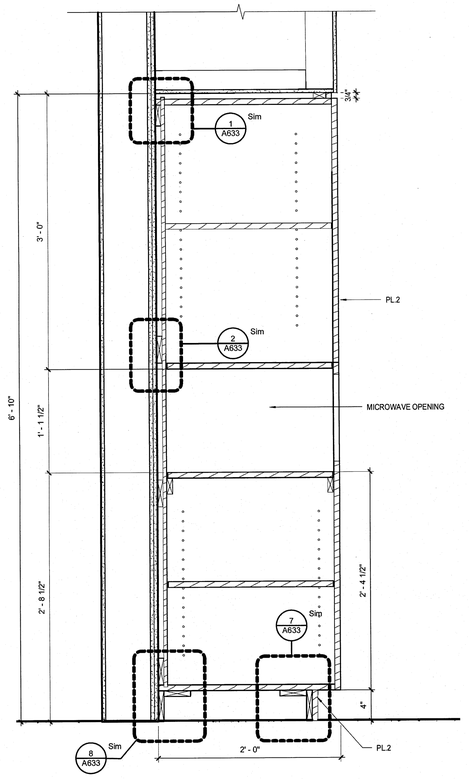
STUDY LOUNGE 4 - CAFE | 1

1/2" = 1'-0" | 4 / A504



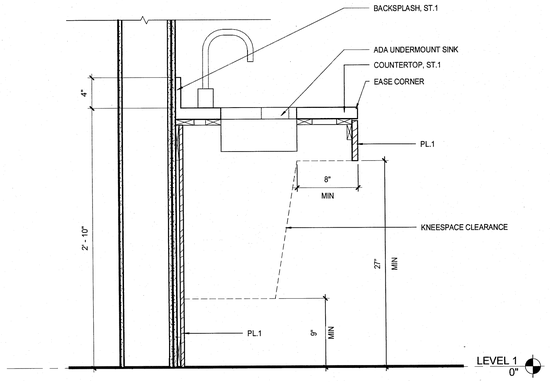
SECTION THROUGH CABINETS | 2

1 1/2" = 1'-0" | 1 / A631



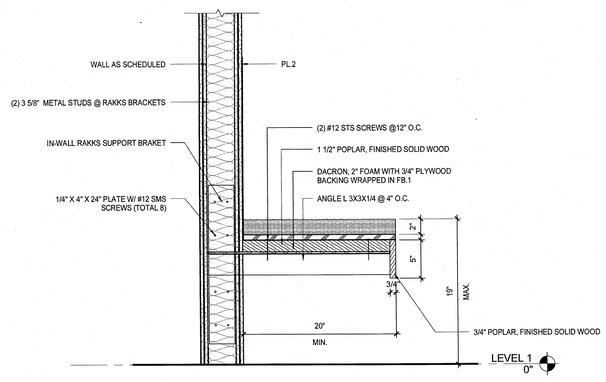
SECTION THROUGH BUILT-IN MICROWAVE | 3

1 1/2" = 1'-0" | 1 / A631



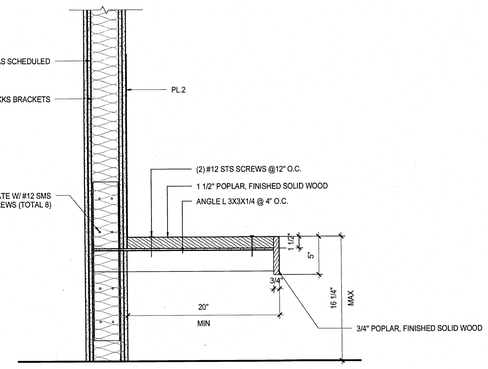
SECTION THROUGH ADA SINK | 4

1 1/2" = 1'-0" | 1 / A631



SECTION THROUGH BANQUET @ UPHOLSTERED SEAT | 5

1 1/2" = 1'-0" | 1 / A110



SECTION THROUGH BANQUET @ FINISHED WOOD | 6

1 1/2" = 1'-0" | 1 / A110

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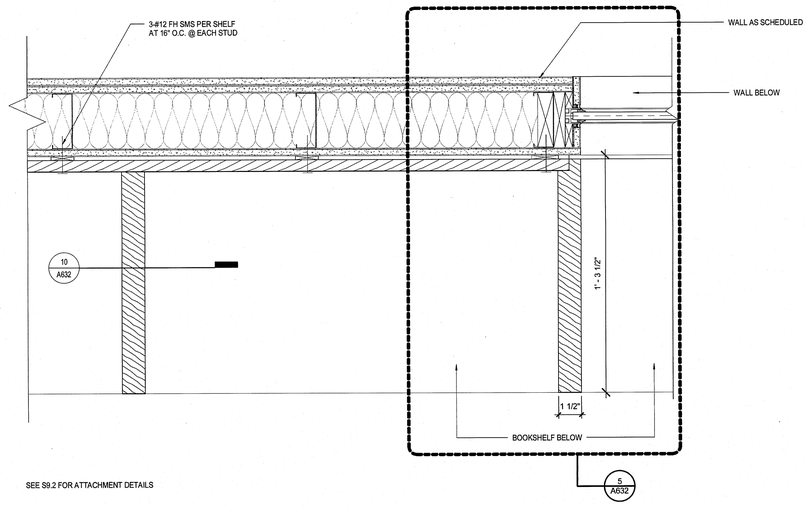
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FILE # : 43-H10
AC: SSS: FLS: DATE: FEB 23 2017
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A631

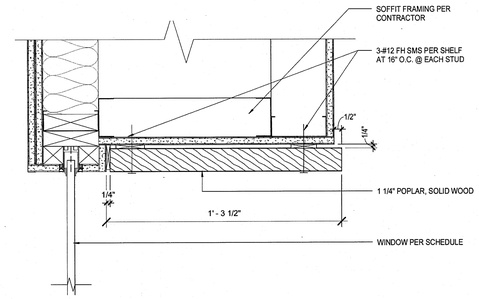
PERMIT BACKCHECK



SEE S9.2 FOR ATTACHMENT DETAILS

TYP. ENLARGED PLAN - BOOKSHELF — 1

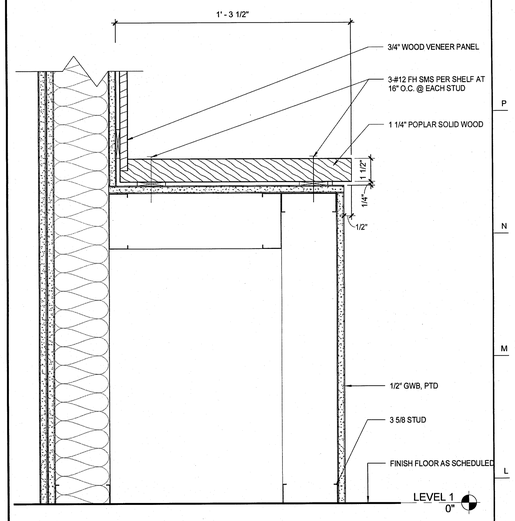
3" = 1'-0" | 1 / A101



SEE 11/S9.2 FOR ATTACHMENT DETAILS

TYPICAL BOOKSHELF AT WINDOW HEAD — 2

3" = 1'-0" | 1 / A310



TYP. DETAIL @ BASE — 3

3" = 1'-0" | 2 / A310

TYP. DETAIL @ HEADER — 4

3" = 1'-0" | 2 / A310

TYP. BOOKSHELF @ VERT. PANELS — 10

3" = 1'-0" | 1 / A632

PLAN AT WINDOW AND BOOKSHELF — 5

3" = 1'-0" | 1 / A632

TYP. SHELF DETAIL — 6

3" = 1'-0" | 1 / A310

TYPICAL BOOKSHELF AT WINDOW — 7

1 1/2" = 1'-0" | 1 / A101

TYPICAL BOOKSHELF SECTION AT WINDOW SILL — 8

3" = 1'-0" | 1 / A310

TYP. BOOKSHELF BASE DETAIL — 9

3" = 1'-0" | 1 / A310

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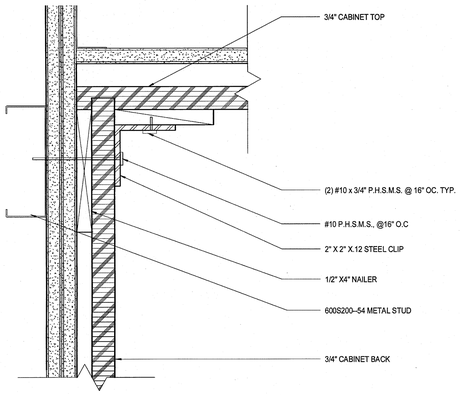
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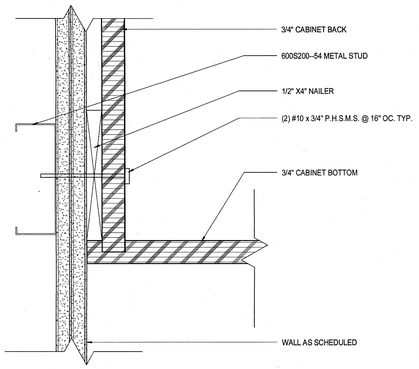
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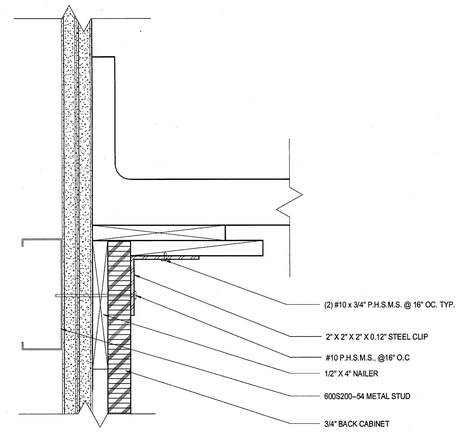
UPPER CABINET ATTACHMENT | 1

6" = 1'-0" | 2 / A631



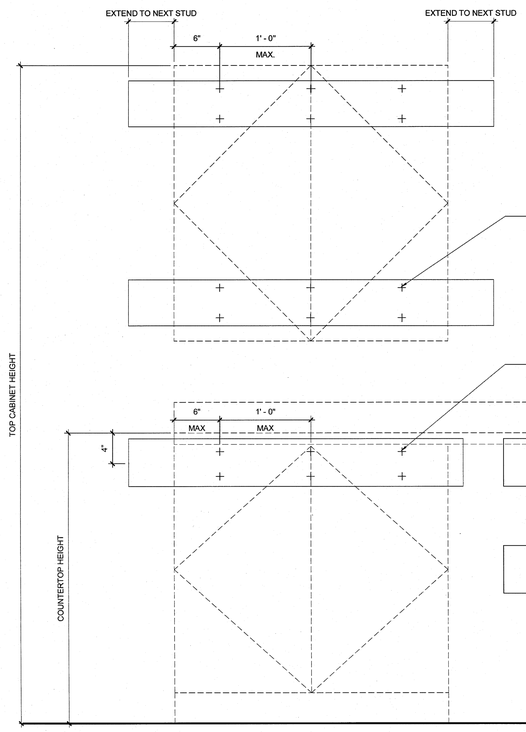
UPPER CABINET BOTTOM ATTACHEMENT | 2

6" = 1'-0" | 2 / A631



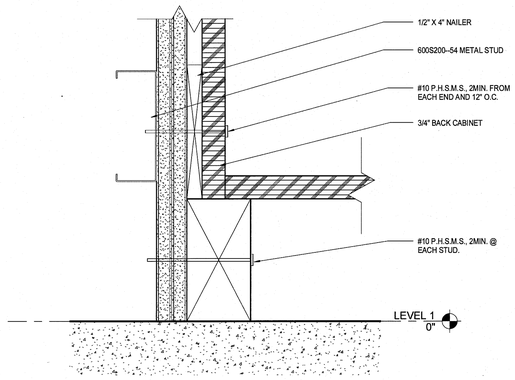
CABINET ATTACHMENT @ COUNTER (TOP) | 3

6" = 1'-0" | 2 / A631



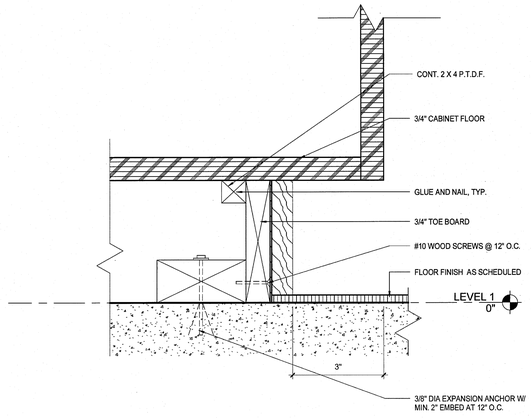
CABINET BLOCKING, TYP. | 6

1 1/2" = 1'-0"



CABINET ATTACHMENT @BASE TO WALL | 8

6" = 1'-0" | 2 / A631



CABINET ATTACHMENT AT BASE | 7

6" = 1'-0" | 2 / A631

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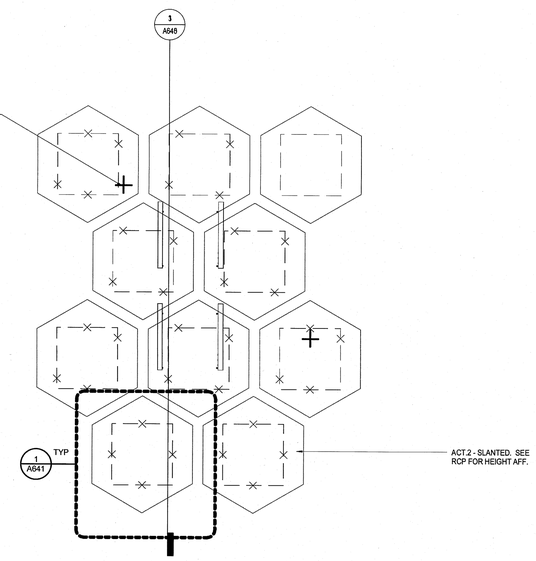
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A633

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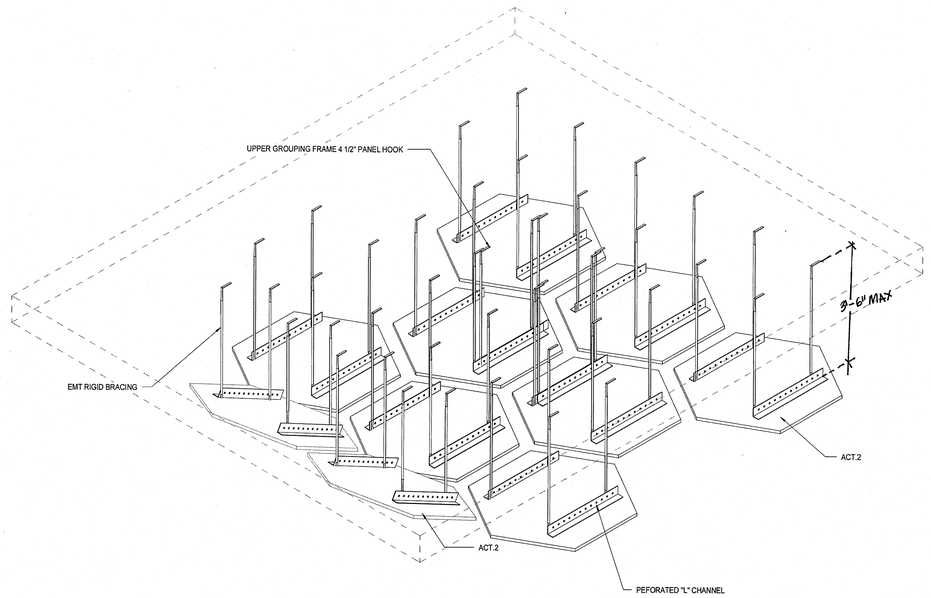


LEVEL 1 - SOUNDSCAPE CEILING FRAMING LAYOUT - ENLARGED

1

1/2" = 1'-0"

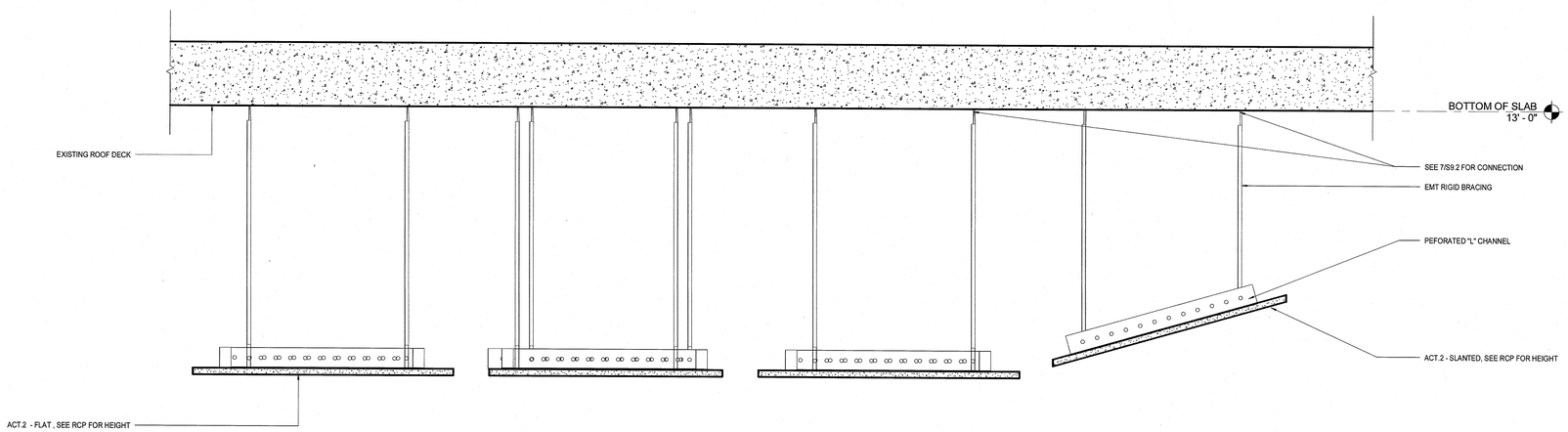
1 / A132



SEE 1/A641 FOR INDIVIDUAL PANEL BRACING

Study/Lounge 1 Ceiling Cluster

2



SECTION THROUGH SOUNDSCAPE CEILING

3

1 1/2" = 1'-0"

1 / A640

CEILING GENERAL NOTES:

1. THESE NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.
2. SUSPENDED SYSTEMS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF AE580.
3. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
4. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
5. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOTLESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
6. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
7. #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4 FOOT IFOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGWIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD.
8. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
9. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
10. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. WHERE GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS ARE SPECIFIED, PROVIDE QUALIFIED EVALUATION REPORTS MEETING THE REQUIREMENTS OF CBC SECTION 1616A.1.20, ASTM C635, C636 AND E580
11. 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 STABILIZER OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE STABILIZER OR #16 GAGE WIRE IS NOT REQUIRED.
12. PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
13. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS, WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
14. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
15. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL APPROVAL.
16. COMPRESSION STRUTS SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.
17. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
18. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
19. HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE
20. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
21. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
22. PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
23. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
24. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
25. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
26. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
27. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS
28. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET IN ACCORDANCE WITH ASTM E580, SECTION 5.2.9.
29. ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A.1.20 (1616.10.16*) AND ASTM E580 SECTIONS 5.3 AND 5.4.
30. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
31. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
32. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
33. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CBC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
34. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
35. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
36. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
37. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
38. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
39. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
40. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
41. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
42. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2 A) OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE
43. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
44. FREE FLOATING CEILINGS (CEILINGS NOT ATTACHED TO ANY WALLS) SUPPORTED BY WIRES IN ACCORDANCE WITH THIS IR SHALL BE BRACED IN ACCORDANCE WITH THIS IR, REGARDLESS OF THE CEILING AREA, UNLESS IT CAN BE DEMONSTRATED THE ANTICIPATED CEILING MOVEMENT WILL NOT CAUSE FAILURE OF THE CEILING COMPONENTS OR FAILURE OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE AND LIFE SAFETY COMPONENTS/SYSTEMS WITHIN THE CEILING AREA AND WITHIN THE AREA OF ANTICIPATED MOVEMENT. THE PERIMETER OF FREE FLOATING CEILINGS SHALL BE SUPPORTED BY A CONTINUOUS RUNNER WHICH IS SPLICED IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.

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LICENSED ARCHITECT
ROBERT MARK BACH
No. C-26777
STATE OF CALIFORNIA

Number	Revision Description	Date

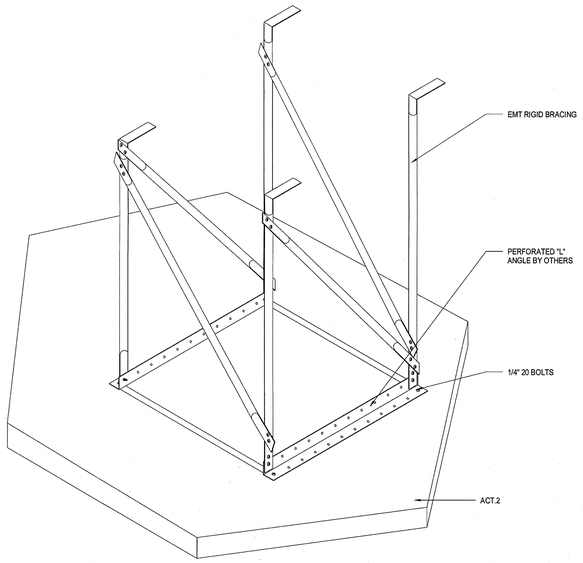
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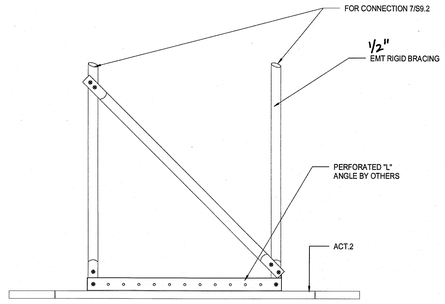
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Ceiling Details

A640

PERMIT BACKCHECK

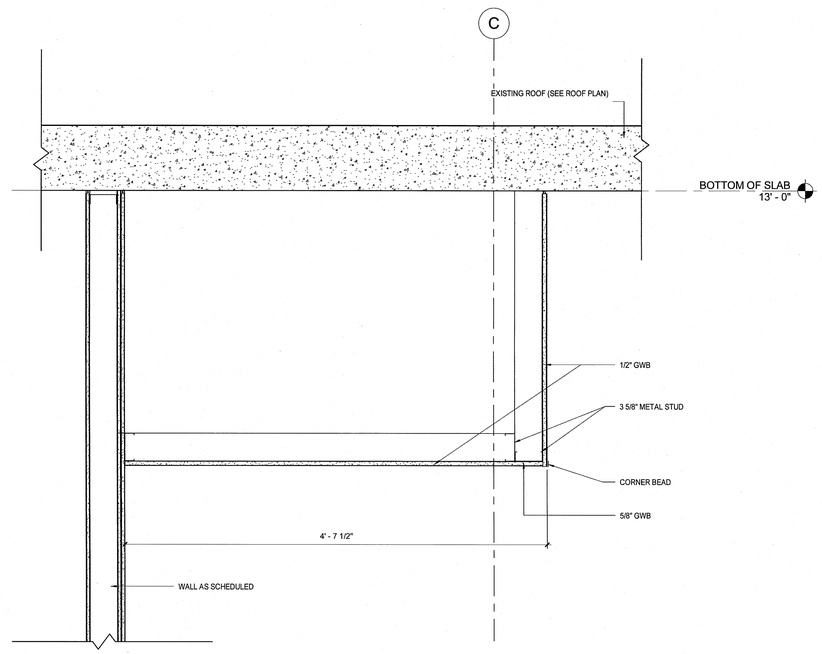




SEE STREUCTURAL FOR BRACING REQUIREMENTS

CEILING PANEL FRAMING — 1

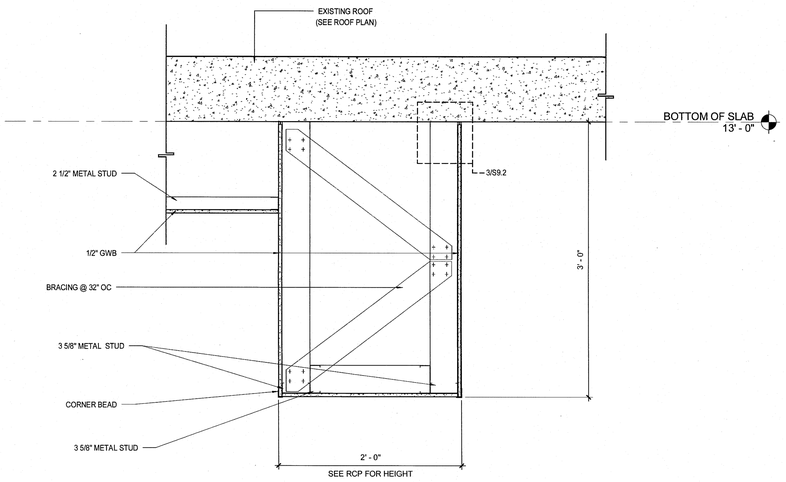
1 1/2" = 1'-0" | 1 / A640



FOR FRAMING AND CONNECTIONS SEE 1/S2.2 , 3/S9.3 4/S9.3

SECTION THROUGH SOFFIT — 2

1 1/2" = 1'-0" | 1 / A131



FOR BRACING AND CONNECTION DETAIL SEE 1/S9.2

SECTION THROUGH SOFFIT @ CAFE — 3

1 1/2" = 1'-0" | 1 / A131

CEILING GENERAL NOTES:

1. THESE NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.
2. SUSPENDED SYSTEMS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF AIE580.
3. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
4. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
5. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOTLESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
6. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
7. #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4 FOOT IFOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGWIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWIABLE LOAD.
8. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
9. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
10. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. WHERE GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS ARE SPECIFIED, PROVIDE QUALIFIED EVALUATION REPORTS MEETING THE REQUIREMENTS OF CBC SECTION 1616A.1.20, ASTM C635, C636 AND E580
11. 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 STABILIZER OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE STABILIZER OR #16 GAGE WIRE IS NOT REQUIRED.
12. PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
13. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS, WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
14. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
15. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL APPROVAL.
16. COMPRESSION STRUTS SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.
17. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
18. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
19. HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE.
20. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
21. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
22. PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
23. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
24. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
25. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
26. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
27. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS
28. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET IN ACCORDANCE WITH ASTM E580, SECTION 5.2.9.
29. ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A.1.20 (1616.10.16*) AND ASTM E580 SECTIONS 5.3 AND 5.4.
30. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
31. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS, ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
32. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
33. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CEC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
34. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
35. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
36. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
37. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
38. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
39. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
40. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
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42. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2 A) OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE
43. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
44. FREE FLOATING CEILINGS (CEILINGS NOT ATTACHED TO ANY WALLS) SUPPORTED BY WIRES IN ACCORDANCE WITH THIS IR SHALL BE BRACED IN ACCORDANCE WITH THIS IR, REGARDLESS OF THE CEILING AREA, UNLESS IT CAN BE DEMONSTRATED THE ANTICIPATED CEILING MOVEMENT WILL NOT CAUSE FAILURE OF THE CEILING COMPONENTS OR FAILURE OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE AND LIFE SAFETY COMPONENTS/SYSTEMS WITHIN THE CEILING AREA AND WITHIN THE AREA OF ANTICIPATED MOVEMENT. THE PERIMETER OF FREE FLOATING CEILINGS SHALL BE SUPPORTED BY A CONTINUOUS RUNNER WHICH IS SPLICED IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.

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LICENSED ARCHITECT — ROBERT MARK BASS — STATE OF CALIFORNIA

Number	Revision Description	Date

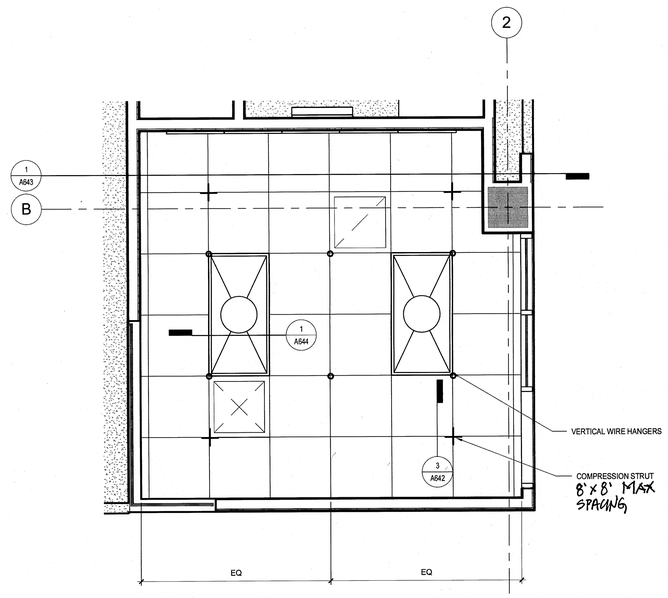
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43110
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SSS: DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Ceiling Details

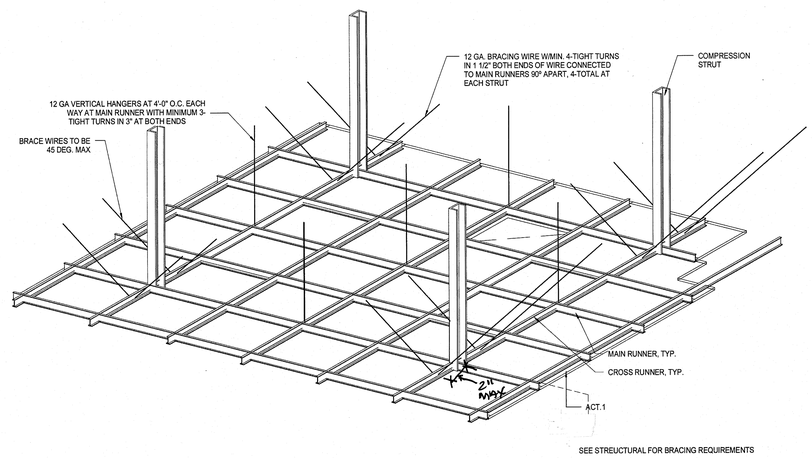
A641

PERMIT BACKCHECK



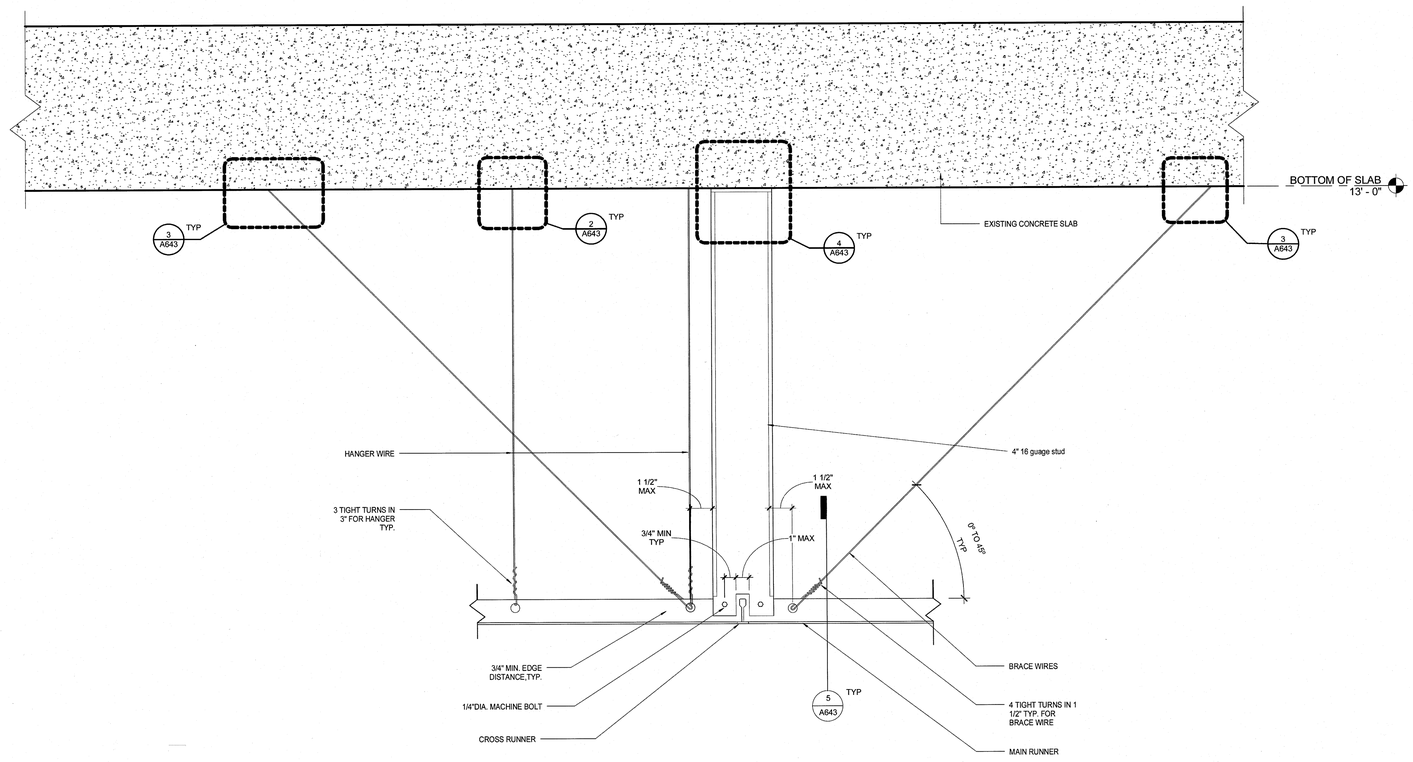
LEVEL 1 - TYP. ACOUSTIC CEILING TILE BRACING ASSEMBLY SPACING — 1

1/2" = 1'-0" | 1 / A132



SEE STREUCTURAL FOR BRACING REQUIREMENTS

ACT SUSPENSION AND BRACING ASSEMBLY — 2



SEE STREUCTURAL FOR BRACING REQUIREMENTS

SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT — 3

3" = 1'-0" | 1 / A642

CEILING GENERAL NOTES:

1. THESE NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.
2. SUSPENDED SYSTEMS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF AIE580.
3. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
4. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI
5. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOTLESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
6. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
7. #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4 FOOT IFOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGWIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD.
8. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
9. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
10. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. WHERE GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS ARE SPECIFIED, PROVIDE QUALIFIED EVALUATION REPORTS MEETING THE REQUIREMENTS OF CBC SECTION 1616A 1.20, ASTM C635, C636 AND E580
11. 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 STABILIZER OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE STABILIZER OR #16 GAGE WIRE IS NOT REQUIRED.
12. PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
13. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS, WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
14. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
15. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL APPROVAL.
16. COMPRESSION STRUTS SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.
17. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
18. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
19. HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE
20. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
21. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
22. PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
23. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
24. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
25. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
26. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
27. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS
28. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET IN ACCORDANCE WITH ASTM E580, SECTION 5.2.9.
29. ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A 1.20 (1616.10.16*) AND ASTM E580 SECTIONS 5.3 AND 5.4.
30. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
31. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
32. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
33. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CEC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
34. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
35. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
36. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
37. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
38. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
39. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
40. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
41. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
42. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2.A) OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE
43. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
44. FREE FLOATING CEILINGS (CEILINGS NOT ATTACHED TO ANY WALLS) SUPPORTED BY WIRES IN ACCORDANCE WITH THIS IR SHALL BE BRACED IN ACCORDANCE WITH THIS IR, REGARDLESS OF THE CEILING AREA, UNLESS IT CAN BE DEMONSTRATED THE ANTICIPATED CEILING MOVEMENT WILL NOT CAUSE FAILURE OF THE CEILING COMPONENTS OR FAILURE OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE AND LIFE SAFETY COMPONENTS/SYSTEMS WITHIN THE CEILING AREA AND WITHIN THE AREA OF ANTICIPATED MOVEMENT. THE PERIMETER OF FREE FLOATING CEILINGS SHALL BE SUPPORTED BY A CONTINUOUS RUNNER WHICH IS SPLICED IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.

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REGISTERED ARCHITECT ROBERT MARK BAUER 2017 STATE OF CALIFORNIA

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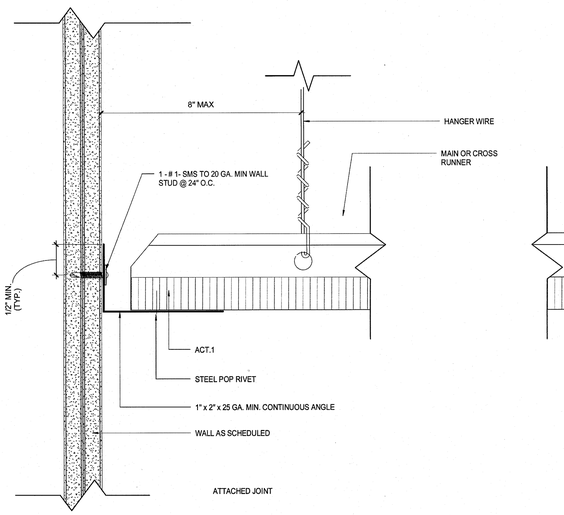
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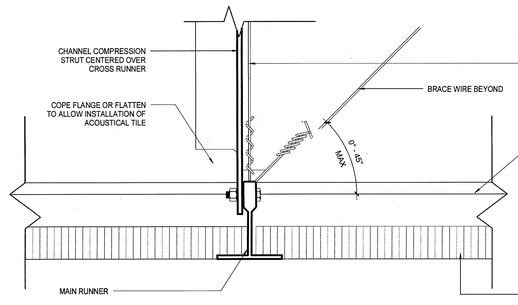
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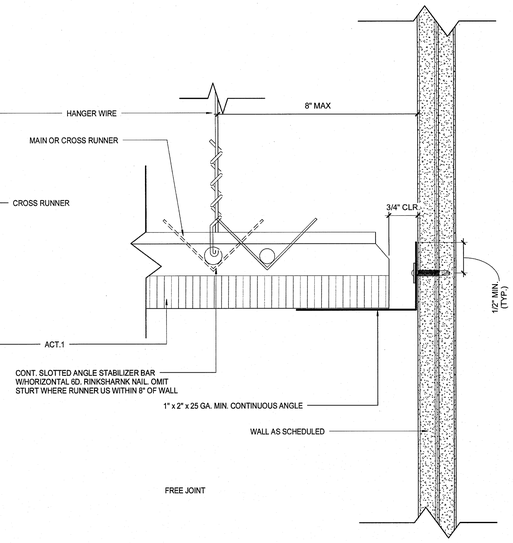
Ceiling Details

A642

PERMIT BACKCHECK

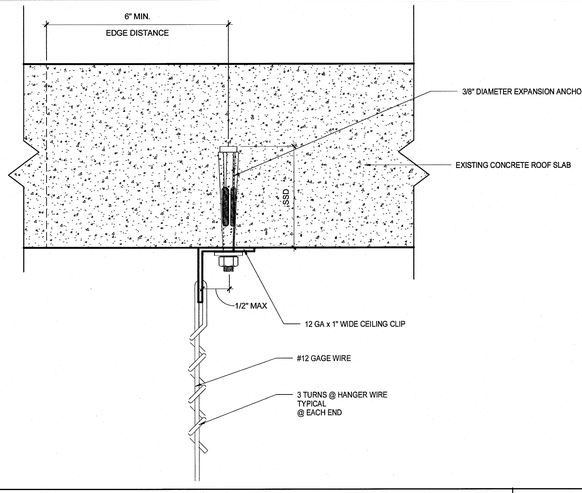






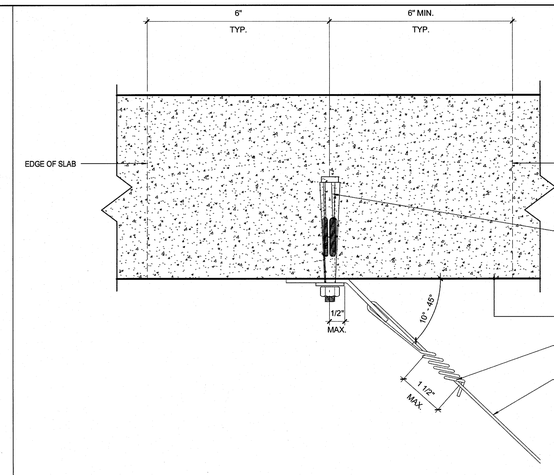
CEILING @ PERIMETER AND VERTICAL STRUT — 1

6" = 1'-0" | 1 / A642



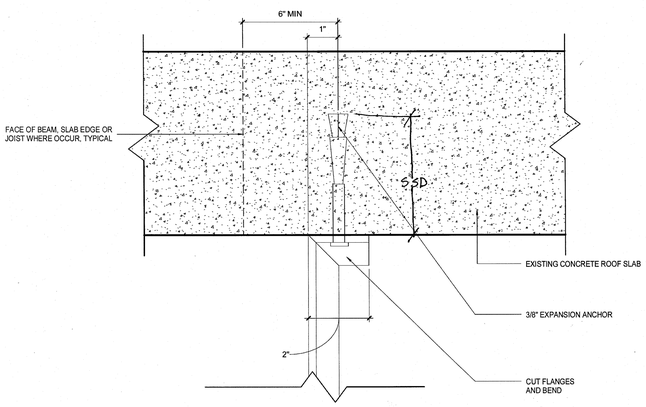
HANGER WIRE CONNECTION TO CONCRETE SLAB — 2

6" = 1'-0" | 3 / A642



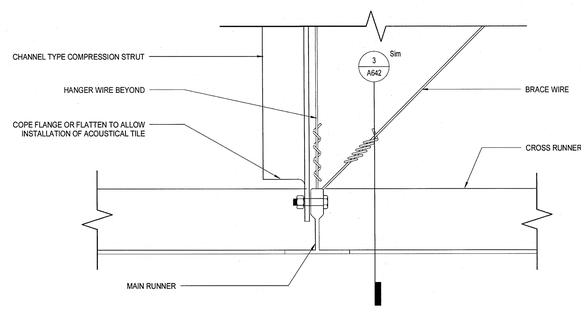
BRACING WIRE CONNECTION TO CONCRETE SLAB — 3

6" = 1'-0" | 3 / A642



STRUT CONNECTION TO CONCRETE SLAB — 4

6" = 1'-0" | 3 / A642



SUSPENDED ACOUSTIC CEILING - COMPRESSION STRUT — 5

6" = 1'-0" | 3 / A642

CEILING GENERAL NOTES:

1. THESE NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.
2. SUSPENDED SYSTEMS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF AIE580.
3. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
4. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.105" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
5. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOTLESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
6. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
7. #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4-FOOT IFOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGWIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD.
8. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
9. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
10. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. WHERE GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS ARE SPECIFIED, PROVIDE QUALIFIED EVALUATION REPORTS MEETING THE REQUIREMENTS OF CBC SECTION 1616A.1.20, ASTM C635, C636 AND E580.
11. 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 STABILIZER OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE STABILIZER OR #16 GAGE WIRE IS NOT REQUIRED.
12. PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
13. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS, WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR. AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
14. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
15. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL APPROVAL
16. COMPRESSION STRUTS SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.
17. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
18. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
19. HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE
20. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
21. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
22. PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
23. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
24. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
25. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
26. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
27. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS
28. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET IN ACCORDANCE WITH ASTM E580, SECTION 5.2.9.
29. ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A.1.20 (1616.10.16") AND ASTM E580 SECTIONS 5.3 AND 5.4.
30. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
31. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
32. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
33. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CEC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1
34. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
35. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
36. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
37. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
38. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
39. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
40. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
41. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
42. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2.A) OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE.
43. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
44. FREE FLOATING CEILINGS (CEILINGS NOT ATTACHED TO ANY WALLS) SUPPORTED BY WIRES IN ACCORDANCE WITH THIS IR SHALL BE BRACED IN ACCORDANCE WITH THIS IR, REGARDLESS OF THE CEILING AREA, UNLESS IT CAN BE DEMONSTRATED THE ANTICIPATED CEILING MOVEMENT WILL NOT CAUSE FAILURE OF THE CEILING COMPONENTS OR FAILURE OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE AND LIFE SAFETY COMPONENTS/SYSTEMS WITHIN THE CEILING AREA AND WITHIN THE AREA OF ANTICIPATED MOVEMENT. THE PERIMETER OF FREE FLOATING CEILINGS SHALL BE SUPPORTED BY A CONTINUOUS RUNNER WHICH IS SPLICED IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.

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LICENSED ARCHITECT ROBERT MARK BALL No. C-26000 STATE OF CALIFORNIA

Number	Revision Description	Date

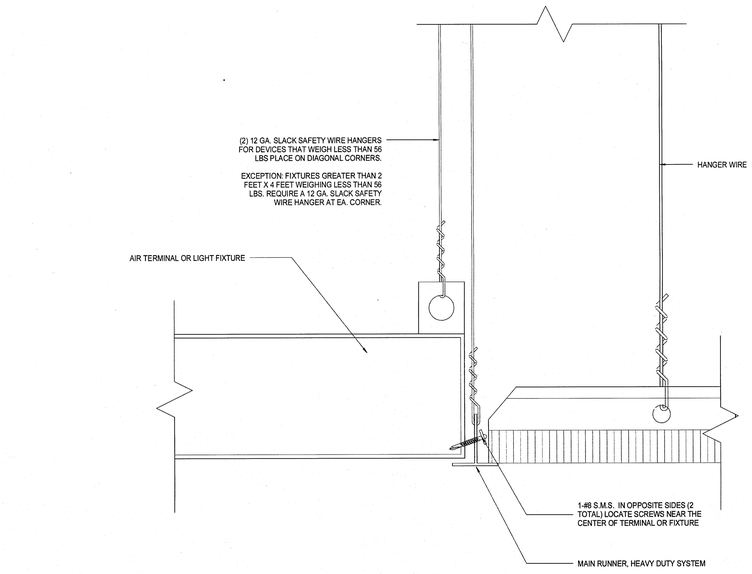
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Ceiling Details

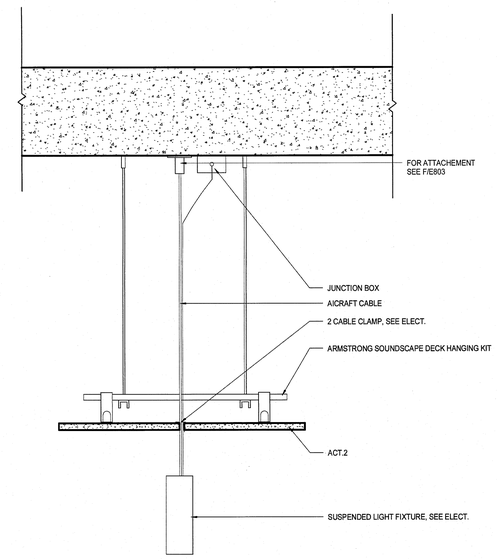
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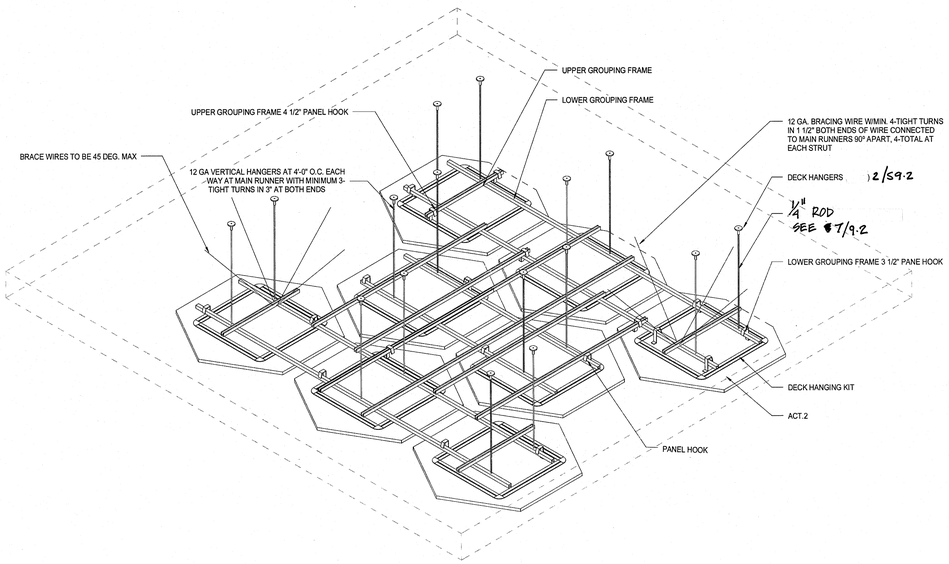
LIGHT SUPPORT @ ACT | 1

6" = 1'-0" | 1 / A131

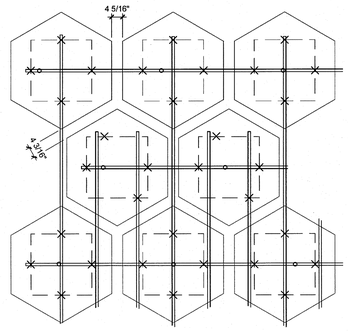


PENDANT FIXTURE @ SUSPENDED CEILING | 2

1 1/2" = 1'-0"



LEVEL 1 - SOUNDSCAPE CEILING FRAMING LAYOUT (3D), TYP. | 3



LEVEL 1 - SOUNDSCAPE CEILING FRAMING LAYOUT, TYP. | 4

1/2" = 1'-0" | 1 / A132

CEILING GENERAL NOTES:

1. THESE NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.
2. SUSPENDED SYSTEMS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF AIE580.
3. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
4. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
5. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOTLESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
6. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
7. #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4 FOOT IFOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGWIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD.
8. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
9. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
10. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. WHERE GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS ARE SPECIFIED, PROVIDE QUALIFIED EVALUATION REPORTS MEETING THE REQUIREMENTS OF CBC SECTION 1616A.1.20, ASTM C635, C636 AND E580
11. 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 STABILIZER OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE STABILIZER OR #16 GAGE WIRE IS NOT REQUIRED.
12. PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
13. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS. WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
14. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
15. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL APPROVAL.
16. COMPRESSION STRUTS SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.
17. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
18. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
19. HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE.
20. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
21. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
22. PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
23. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
24. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
25. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
26. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
27. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS
28. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET IN ACCORDANCE WITH ASTM E580, SECTION 5.2.9.
29. ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A.1.20 (1616.10.16*) AND ASTM E580 SECTIONS 5.3 AND 5.4.
30. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
31. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
32. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
33. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CEC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE. PER ASTM E580, SECTION 5.3.1
34. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
35. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
36. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
37. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
38. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
39. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
40. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
41. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
42. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2 A) OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE
43. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
44. FREE FLOATING CEILINGS (CEILINGS NOT ATTACHED TO ANY WALLS) SUPPORTED BY WIRES IN ACCORDANCE WITH THIS IR SHALL BE BRACED IN ACCORDANCE WITH THIS IR, REGARDLESS OF THE CEILING AREA, UNLESS IT CAN BE DEMONSTRATED THE ANTICIPATED CEILING MOVEMENT WILL NOT CAUSE FAILURE OF THE CEILING COMPONENTS OR FAILURE OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE AND LIFE SAFETY COMPONENTS/SYSYSTEMS WITHIN THE CEILING AREA AND WITHIN THE AREA OF ANTICIPATED MOVEMENT. THE PERIMETER OF FREE FLOATING CEILINGS SHALL BE SUPPORTED BY A CONTINUOUS RUNNER WHICH IS SPLICED IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.

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LICENSED ARCHITECT ROBERT MARK BASS ★ EXP. 08/31/2017 ★ STATE OF CALIFORNIA

Number	Revision Description	Date

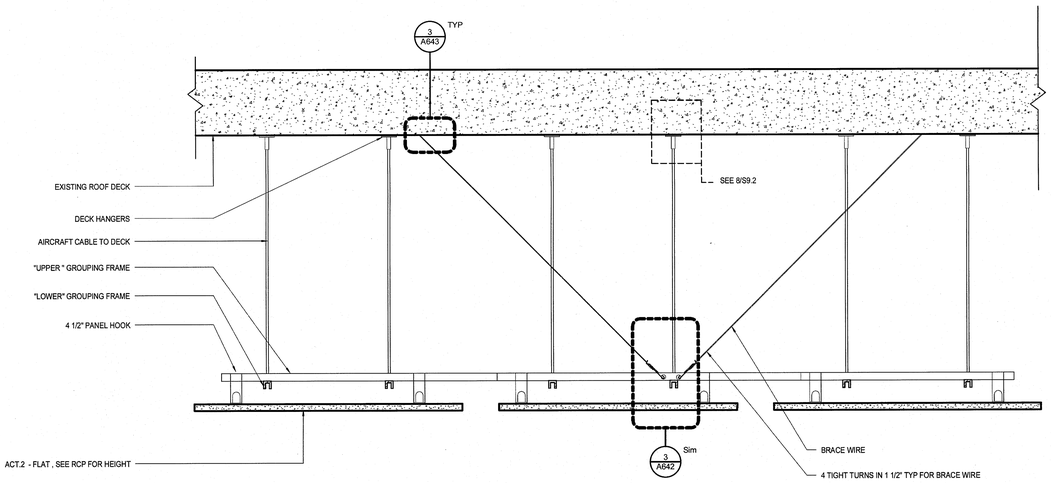
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43H10
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SSS: WD DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

Ceiling Details

A644

PERMIT BACKCHECK



SECTION THROUGH SOUNDSCAPE CEILING | 1

1 1/2" = 1'-0" | 1 / A640

CEILING GENERAL NOTES:

1. THESE NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.
2. SUSPENDED SYSTEMS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF AIE580.
3. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
4. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
5. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOTLESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
6. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
7. #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4 FOOT IFOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGWIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD.
8. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
9. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
10. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. WHERE GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS ARE SPECIFIED, PROVIDE QUALIFIED EVALUATION REPORTS MEETING THE REQUIREMENTS OF CBC SECTION 1616A.1.20, ASTM C635, C636 AND E580.
11. 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 STABILIZER OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE STABILIZER OR #16 GAGE WIRE IS NOT REQUIRED.
12. PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
13. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS. WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
14. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
15. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL APPROVAL.
16. COMPRESSION STRUTS SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.
17. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
18. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
19. HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE.
20. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
21. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
22. PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
23. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
24. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (PP).
25. ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
26. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
27. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS
28. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET IN ACCORDANCE WITH ASTM E580, SECTION 5.2.9.
29. ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A.1.20 (1616.10.1E) AND ASTM E580 SECTIONS 5.3 AND 5.4.
30. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
31. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
32. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
33. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CEC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
34. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
35. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
36. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
37. ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
38. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
39. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
40. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
41. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
42. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2.A) OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE
43. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
44. FREE FLOATING CEILINGS (CEILINGS NOT ATTACHED TO ANY WALLS) SUPPORTED BY WIRES IN ACCORDANCE WITH THIS IR SHALL BE BRACED IN ACCORDANCE WITH THIS IR, REGARDLESS OF THE CEILING AREA, UNLESS IT CAN BE DEMONSTRATED THE ANTICIPATED CEILING MOVEMENT WILL NOT CAUSE FAILURE OF THE CEILING COMPONENTS OR FAILURE OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE AND LIFE SAFETY COMPONENTS/SYSTEMS WITHIN THE CEILING AREA AND WITHIN THE AREA OF ANTICIPATED MOVEMENT. THE PERIMETER OF FREE FLOATING CEILINGS SHALL BE SUPPORTED BY A CONTINUOUS RUNNER WHICH IS SPLICED IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.

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STATE OF CALIFORNIA

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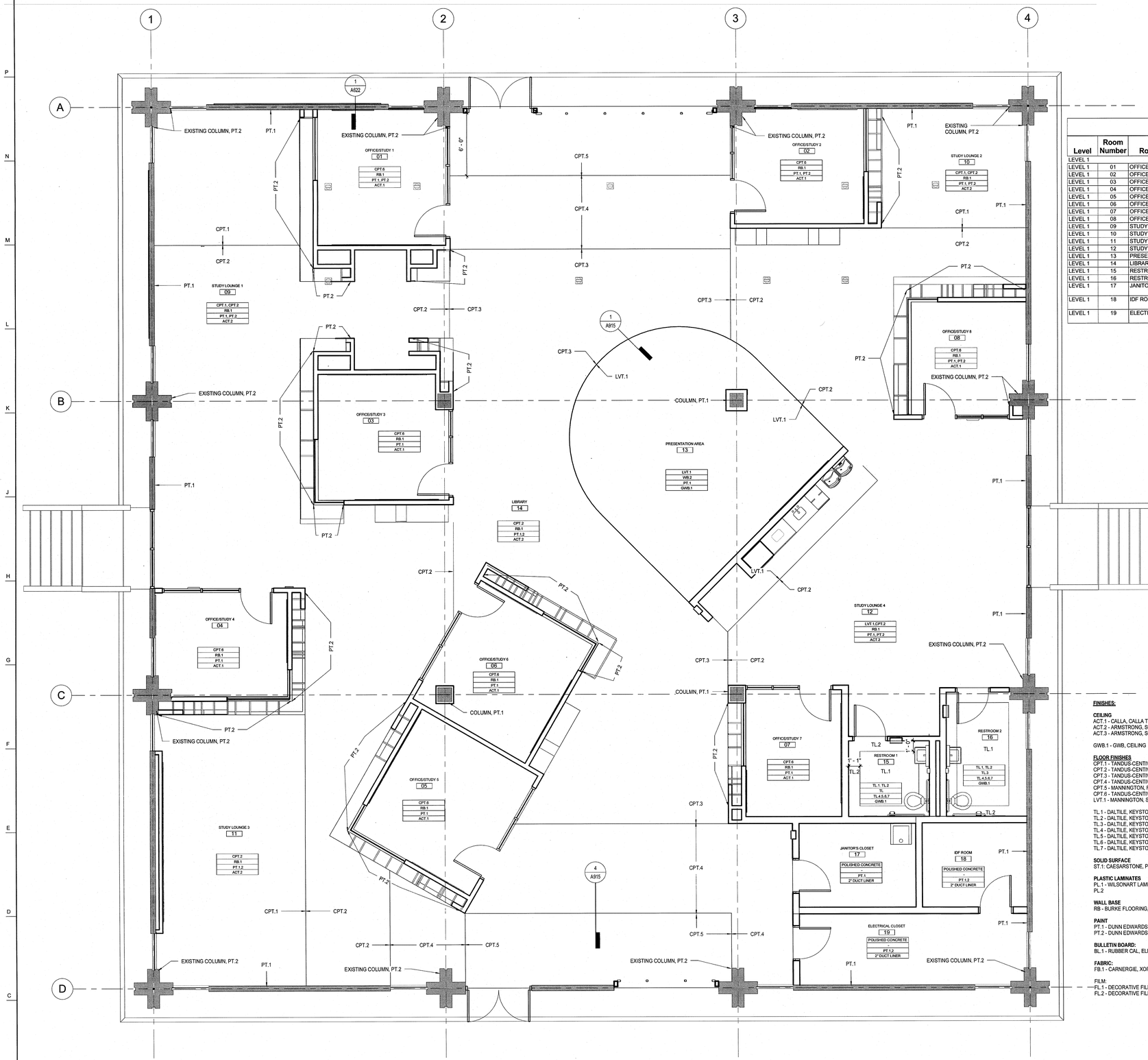
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Ceiling Details

A645

PERMIT BACKCHECK



Finish Schedule

Level	Room Number	Room Name	Finish			
			Floor	Base	Wall	Ceiling
LEVEL 1						
LEVEL 1	01	OFFICE/STUDY 1	CPT.6	RB.1	PT.1, PT.2	ACT.1
LEVEL 1	02	OFFICE/STUDY 2	CPT.6	RB.1	PT.1, PT.2	ACT.1
LEVEL 1	03	OFFICE/STUDY 3	CPT.6	RB.1	PT.1	ACT.1
LEVEL 1	04	OFFICE/STUDY 4	CPT.6	RB.1	PT.1	ACT.1
LEVEL 1	05	OFFICE/STUDY 5	CPT.6	RB.1	PT.1	ACT.1
LEVEL 1	06	OFFICE/STUDY 6	CPT.6	RB.1	PT.1	ACT.1
LEVEL 1	07	OFFICE/STUDY 7	CPT.6	RB.1	PT.1	ACT.1
LEVEL 1	08	OFFICE/STUDY 8	CPT.6	RB.1	PT.1, PT.2	ACT.1
LEVEL 1	09	STUDY LOUNGE 1	CPT.1, CPT.2	RB.1	PT.1, PT.2	ACT.2
LEVEL 1	10	STUDY LOUNGE 2	CPT.1, CPT.2	RB.1	PT.1, PT.2	ACT.2
LEVEL 1	11	STUDY LOUNGE 3	CPT.2	RB.1	PT.1,2	ACT.2
LEVEL 1	12	STUDY LOUNGE 4	LVT.1,CPT.2	RB.1	PT.1, PT.2	ACT.2
LEVEL 1	13	PRESENTATION AREA	LVT.1	WB.2	PT.1	GWB.1
LEVEL 1	14	LIBRARY	CPT.2	RB.1	PT.1,2	ACT.2
LEVEL 1	15	RESTROOM 1	TL.1. TL.2	TL	TL.4,5,6,7	GWB.1
LEVEL 1	16	RESTROOM 2	TL.1, TL.2	TL.3	TL.4,5,6,7	GWB.1
LEVEL 1	17	JANITOR'S CLOSET	POLISHED CONCRETE	-	PT.1	2" DUCT LINER
LEVEL 1	18	IDF ROOM	POLISHED CONCRETE	-	PT.1,2	2" DUCT LINER
LEVEL 1	19	ELECTRICAL CLOSET	POLISHED CONCRETE	-	PT.1,2	2" DUCT LINER

Finish Notes:

1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACENT SURFACES.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
6. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
7. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE UNLESS NOTED OTHERWISE.
11. CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, UNLESS NOTED OTHERWISE.
12. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR.
13. ALL INTERIOR WALLS TO BE PT.1 U.N.O.
14. ALL EXISTING CONCRETE COLUMNS ON EXTERIOR WALL TO BE PT.2 U.N.O.
15. PAINT CEILING STRUCTURE AND ALL EQUIPMENT ABOVE TO MATCH PAINTED SLAB ABOVE, PT.2

FINISHES:

CEILING
ACT.1 - CALLA, CALLA TEGULAR, SQUARE TEGULAR GRID, SUPRAFINE 9/16", 24"x24"
ACT.2 - ARMSTRONG, SOUNDSCAPE SHAPES, 5444 HEXAGON, 48" x 48" x 7/8", WHITE
ACT.3 - ARMSTRONG, SOUNDSCAPE SHAPES, 5444 HEXAGON, 48" X 48" X7/8",

GWB.1 - GWB, CEILING

FLOOR FINISHES
CPT.1 - TANDUS-CENTIVA, CODE, DEEP BLUE 62112, 24" X 24"
CPT.2 - TANDUS-CENTIVA, CODE TRANSITION, SHARD/DEEP BLUE 60612, 24" X 24"
CPT.3 - TANDUS-CENTIVA, CODE, SHARD 62105, 24" X 24"
CPT.4 - TANDUS-CENTIVA, CODE TRANSITION, SHARD/JET BLACK 60608, 24" X 24"
CPT.5 - MANNINGTON, RECOURSE II, BYPASS BLACK 1518, 24" x 24"
CPT.6 - TANDUS-CENTIVA, ANLINE, RAINWASH 44210, 24" X 24"
LVT.1 - MANNINGTON, SPACIA STONE, SSSS2602 WAVE SLATE BLACK 18"X18"

TL.1 - DALTILE, KEYSTONES, MOONLIGHT BLEND, DK14, 2" X 2" (Field)
TL.2 - DALTILE, KEYSTONES, BLACK D311, 2" X 2" (BOARDER)
TL.3 - DALTILE, KEYSTONES, BLACK D311, 2" X 2", MB-9A BUILIND UP
TL.4 - DALTILE, KEYSTONES, ARCTIC WHITE, 6" X 6", SEMI GLOSS
TL.5 - DALTILE, KEYSTONES, ARCTIC WHITE, 1" X 6", SEMI GLOSS
TL.6 - DALTILE, KEYSTONES, ARCTIC WHITE, 6" X 6", MATTE FINISH
TL.7 - DALTILE, KEYSTONES, ARCTIC WHITE, 6" X 6", SEMI GLOSS - BULLNOSE

SOLID SURFACE
ST.1: CAESARSTONE, PURE WHITE 1141

PLASTIC LAMINATES
PL.1 - WILSONART LAMINATE, FASHION GREY, D381-60
PL.2

WALL BASE
RB - BURKE FLOORING, RUBBER BASE, BLACK, 701

PAINT
PT.1 - DUNN EDWARDS PAINT, DEW341 SWISS COFFEE, LRV 83
PT.2 - DUNN EDWARDS PAINT, DE6364 CAVERNOUS, LVR 8

BULLETIN BOARD:
BL.1 - RUBBER CAL, ELEPHANT BARK RUBBERIZED FLOORING, RED DOT, 3/8", 4'x12"

FABRIC:
FB.1 - CARNERGIE, XOREL, METEOR, 6427 762

FILM:
FL.1 - DECORATIVE FILM - SOLYX: SX-2011
FL.2 - DECORATIVE FILM - SOLYX: SXWF - SS0

LEVEL 1 - FINISH FLOOR PLAN

1/4" = 1'-0"

1

1 / A201

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STATE OF CALIFORNIA

Number	Revision Description	Date

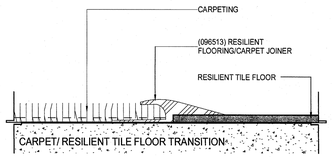
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-3110
AC:
SSS:
FLS:
DATE: FEB 23 2017
IDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

Level 1 - Finish Floor Plan

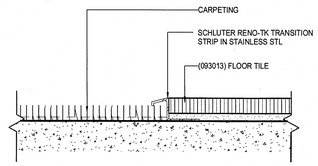
A911

PERMIT BACKCHECK



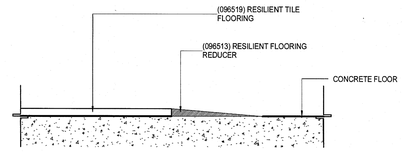
CARPET TO RESILIENT TILE FLOOR TRANSITION — 1

12" = 1'-0" | 1 / A911



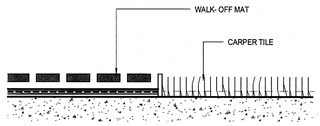
CARPET TO CERAMIC TILE TRANSITION — 2

12" = 1'-0"



CARPET/ RESILIENT TILE FLOOR TRANSITION — 3

12" = 1'-0"



WALK-OFF MAT / CERAMIC TILE TRANSITION — 4

12" = 1'-0" | 1 / A911

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LICENSED ARCHITECT
ROBERT MARK BRIAN
EXP. 8-31-2017
STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
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Date: February 15, 2017
Sheet:

Interior Transition Details

A915

PERMIT BACKCHECK

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2013 CALIFORNIA BUILDING CODE.
2. THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
3. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
4. UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAILS". SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES".
5. THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS OF TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
6. REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR THE FOLLOWING: FLOOR FINISHES; DEPRESSIONS AND CURBS ON FLOORS; OPENINGS REQUIRED FOR WINDOWS, DOORS, DUCTS, VENTS, PLUMBING, ETC.; FLASHING, INSERTS, ANCHORAGES, HANGERS ETC., EMBEDDED IN OR ATTACHED TO THE STRUCTURE; ROADWAY, WALKS, PAVING, STAIRS, RAMPS, TERRACES, EXTERIOR GRADES, ELEVATIONS OF ROOF SURFACE AND LOCATIONS OF DRAINS AND PARTITION WALLS.
7. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, CIVIL, AND ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
8. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
9. BEAMS, JOISTS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
10. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE; ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
11. FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY SHORE AND BRACE EXISTING BUILDING AS REQUIRED DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES OR DRAWINGS.
15. SEE ARCHITECTURAL DRAWINGS FOR DETAILS ON REQUIRED VENTILATION OF ROOF JOISTS, FLOOR JOISTS, AND ATTIC SPACES.
16. CONTRACTOR SHALL FIELD VERIFY EXISTING FRAMING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY VARIATION FROM CONDITIONS ASSUMED ON DRAWINGS. CONTRACTOR SHALL VERIFY THAT EXISTING FRAMING IS RE-SUPPORTED AND ALL LOADS ARE TRANSFERRED TO NEW OR EXISTING FOOTINGS. CONTRACTOR SHALL CONSULT WITH THE STRUCTURAL ENGINEER AS REQUIRED.
17. GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY.
18. MECHANICAL UNIT LOCATIONS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC ONLY. GENERAL CONTRACTOR TO COORDINATE STRUCTURAL TRADES WITH MECHANICAL CONTRACTOR TO DETERMINE EXACT LOCATION OF UNITS AND SUPPORTING STRUCTURE.
19. DO NOT SCALE DRAWINGS.

DESIGN CRITERIA

1. VERTICAL LOADS:
   - A. DEAD LOADS:
     - i. ROOF DEAD LOAD: 132 PSF
     - ii. FLOOR DEAD LOAD: 50 PSF
   - B. LIVE LOADS:
     - i. ROOF LIVE LOAD: 20 PSF
     - iii. TYPICAL FLOORS: 100 PSF
     - iv. CORRIDORS and LOBBIES: 100 PSF
   - C. SPRINKLER DESIGN LOADS: 250 LBS + WEIGHT OF WATER FILLED PIPE
2. LATERAL LOADS:
   - A. WIND DESIGN LOADS - PER CBC SECTION 1609A:
     - BASIC WIND SPEED: 115 MPH
     - EXPOSURE CATEGORY: C
   - B. SEISMIC DESIGN - PER CBC SECTION 1613A
     - RISK CATEGORY: III
     - SEISMIC DESIGN CATEGORY: D
     - SITE CLASS: D
     - FUNDAMENTAL PERIOD: T = .25 SECONDS
     - BASIC LATERAL FORCE RESISTING SYSTEM - (RC IPCSW PER ASCE 7 TABLE 12.2-1)
     - MAPPED SHORT PERIOD ACCELERATION: Ss = 1.514 g
     - SITE COEFFICIENT: Fa = 1.0
     - DESIGN SHORT PERIOD ACCELERATION: SDS= 1.009 g
     - MAPPED ONE SECOND PERIOD ACCELERATION: S1 = 0.600 g
     - SITE COEFFICIENT: Fv = 1.5
     - DESIGN ONE SECOND ACCELERATION: SD1= 0.600 g
     - RESPONSE MODIFICATION FACTOR: R = 4.0
     - (INTERMEDIATE PRECAST CONC. SHEAR WALLS)
     - IMPORTANCE FACTOR: I= 1.25
     - SEISMIC RESPONSE COEFICIENT, (SDS*I/R): Cs= 0.315 g

     BASE SHEAR, V= Cs * W = 315W AT STRENGTH LEVEL
3. ALLOWABLE SOIL BEARING PRESSURES:
   - DEAD LOAD: 2000 PSF
   - DEAD + LIVE LOADS: 2000 PSF
   - DEAD + LIVE + LATERAL LOADS: 2666 PSF

FOUNDATION NOTES

1. FOOTINGS SHALL BEAR ON "UNDISTURBED NATURAL SOIL. FOUNDATION SOIL IS A SANDY CLAY.
2. SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED ALLOWABLE SOIL PRESSURES DEFINED IN DESIGN CRITERIA ABOVE.
3. COMPACT BOTTOM OF FOOTINGS TO 90% RELATIVE DENSITY IN ACCORDANCE WITH ASTM D1557.
4. WHERE FOUNDATION WALL BACKFILL IS NECESSARY, THE BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON EACH SIDE OF WALL, AND THE LEVEL ON ONE SIDE SHALL NOT EXCEED THE OTHER SIDE BY MORE THAN 6 INCHES DURING THIS OPERATION.
5. FOOTINGS SHALL BE CENTERED UNDER BEARING WALLS ABOVE UNLESS OTHERWISE NOTED.
6. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND ANY OTHER INCLUDED DRAWINGS, AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON STRUCTURAL PLANS PRIOR TO POURING CONCRETE FOOTINGS AND FLOOR SLABS.
7. VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

CONCRETE NOTES

1. ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
2. SEE THE CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
3. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION AND EXTENT OF EXTERIOR WALKS AND PAVEMENTS AND FOR REINFORCEMENT REQUIREMENTS.
4. REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
5. CONCRETE SHALL ACHIEVE THE FOLLOWING CLASSES:

CONCRETE CLASSES	USE	28 DAY STRENGTH (PSI)	MAX AGGREGATE SIZE (IN)	CONCRETE WEIGHT (PCF)	MAX W/C RATIO %	FLYASH %	ASTM C150 CEMENT TYPE
A	FOUNDATIONS	4000	1	145	0.5	25-50	TYPE V
B	RETAINING WALLS & FOOTINGS	4000	1	145	0.5	25-50	TYPE V
C	PLANTER WALLS AND STEPS	4000	1	145	0.5	25-50	TYPE V
D	WALLS (CIP)	4000	3/4	145	0.5	25-50	TYPE II OR II
E	SHOTCRETE WALLS	5000	3/4	145	0.5	25-50	TYPE II OR II
F	SLABS-ON-GROUND	3000	1	145	0.45	25-50	TYPE II OR II

6. ALL CONCRETE SHALL CONFORM TO ASTM C94.
7. PROVIDE 15 MIL VAPOR BARRIER CONFORMING TO ASTM E 1745 CLASS A UNDER ALL SLABS ON GRADE AT INTERIOR USES.
8. REPLACE A MINIMUM OF 25% AND A MAXIMUM OF 50% OF CEMENT CONTENT WITH FLYASH CONFORMING TO ASTM C618 CLASS N OR F, OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 989, CLASS 100 OR 120.
9. REINFORCING BARS SHALL BE ASTM A615 GRADE 60 DEFORMED BARS.
10. SEE REINFORCING BAR LAP SPLICE SCHEDULE FOR REINFORCING BAR LAP SPLICE LENGTHS. STAGGER SPLICES WHENEVER POSSIBLE. VERTICAL WALL REINFORCING BARS SHALL EITHER EXTEND INTO FOOTINGS OR LAP SPLICED WITH FOOTING DOWELS OF THE SAME SIZE BARS.
11. REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET-SETTING" WILL NOT BE ALLOWED.
12. BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:
    - 3" WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT
    - 2" FOR BARS LARGER THAN #5, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS.
    - 1-1/2" FOR #5 BARS OR SMALLER, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS
    - 1-1/2" FOR COLUMN SPIRAL TIES*
    - 1" FOR WALL BARS
    - 3/4" FOR STRUCTURAL SLAB BARS, TOP AND BOTTOM UNLESS GOVERNED ABOVE BY EXPOSURE OR NOTED ON DETAILS.
13. INTERIOR SLAB ON GROUND SHALL BE REINFORCED AS SHOWN ON STRUCTURAL PLANS. LOCATIONS OF CONSTRUCTION JOINTS OTHER THAN SHOWN ON DRAWINGS MUST BE APPROVED BY THE ARCHITECT.
14. ALL CONCRETE CURBS ARE 6 INCHES HIGH UNLESS OTHERWISE NOTED.
15. THE SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MIX.
16. WHERE NEW CONSTRUCTION IS INTEGRATED WITH EXISTING CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN SO AS NOT TO DAMAGE EXISTING REMAINING CONCRETE AND REINFORCING. WHERE NEW CONCRETE ABUTS EXISTING CONCRETE, CLEAN EXISTING CONCRETE SURFACE WITH HIGH PRESSURE WATER SPRAY. APPLY APPROVED BONDING AGENT TO SURFACE OF EXISTING CONCRETE.
17. HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE 1/8" GREATER THAN ANCHOR ROD DIAMETER, UNLESS OTHERWISE NOTED. GROUT SHALL BE NON-SHRINK EPOXY. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.

PNEUMATICALLY PLACED CONCRETE NOTES (SHOTCRETE)

1. ALL SHOTCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 506, WHICH IS AVAILABLE FOR REVIEW AT THE ENGINEERS' OFFICE.
2. PRE-CONSTRUCTION TEST: PREPARE TWO TEST PANELS, NOT LESS THAN 6 FEET BY 6 FEET BY 18 INCHES, SIMULATING THE MOST CONGESTED REINFORCING ON THE PROJECT PER CBC SECTION 1910A.5.
3. CONCRETE TO RECEIVE SHOTCRETE HAVE THE ENTIRE SURFACE THOROUGHLY CLEANED AND ROUGHENED BY SAND BLASTING, SHALL BE CLEANED IMMEDIATELY BEFORE SHOTCRETING, AND SHALL BE WETTED BEFORE SHOTCRETE PLACEMENT.
4. ALL SHOTCRETE SHALL TEST NOT LESS THAN 5000 PSI AT 28 DAYS.
5. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH.
6. LAP ALL REINFORCING BARS PER REINFORCING BAR LAP SPLICE SCHEDULE. SPLICE BARS BY THE NON-CONTACT LAP SPLICE METHOD WITH 2 INCHES CLEAR BETWEEN BARS.
7. CURE SHOTCRETE BY KEEPING CONTINUOUSLY MOIST FOR A MINIMUM OF 24 HOURS THEN PROTECTING WITH A MOISTURE RETAINING COVER FOR A MINIMUM OF 7 DAYS AFTER SHOTCRETING, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
8. STRENGTH TESTS SHALL BE BY TEST PANEL OR IN-PLACE WORK METHOD.
   IF APPROVED IN ADVANCE BY DSA FIELD ENGINEER, TEST PANEL METHOD MAY BE USED. SHOOT ONE TEST PANEL, 18 INCHES SQUARE, FOR EACH 50 CUBIC YARDS OF SHOTCRETE PLACED, BUT NOT LESS THAN ONE PANEL PER SHIFT. CURE PANELS UNDER SAME CONDITIONS AS THE WORK. TESTING AGENCY SHALL TAKE A MINIMUM OF THREE 3" DIAMETER CORES FROM EACH PANEL.
   IF TEST PANEL METHOD IS NOT APPROVED: TAKE THREE 3" DIAMETER CORES FROM THE IN PLACE WORK FOR EACH 50 CUBIC YARDS OF SHOTCRETE PLACED, BUT NOT LESS THAN ONE PANEL PER SHIFT. DO NOT DAMAGE REINFORCING. LOCATION OF CORES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
9. INSPECTION: PROVIDE CONTINUOUS SPECIAL INSPECTION OF SHOTCRETING OPERATION.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
2. HOLLOW STEEL SECTIONS SHALL BE ASTM A500 GRADE B FY=42 KSI.
3. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
4. ANCHOR BOLTS SHALL BE ASTM F1554, Fy=36 KSI.
5. THREADED RODS SHALL BE PER ASTM A193 GRADE B7.
6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
7. ALL TESTING AND INSPECTION OF SHOP AND FIELD WELDING OPERATIONS SHALL BE MADE BY A CERTIFIED WELDING INSPECTOR. ALL WELDS SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH:
   - A. CAC TITLE 24 DIVISION T21 SECTION T21-2714,
   - B. THE SPECIFICATIONS,
   - C. THE CALIFORNIA BUILDING CODE 2013 EDITION,
   - D. AWS D1.1, AS WELL AS D1.8 FOR SEISMIC ELEMENTS.

   ALL WELDING ELECTRODES SHALL BE E70 SERIES. THE WELDING INSPECTOR SHALL CHECK THE WELDER'S CERTIFICATION, MATERIAL, EQUIPMENT, FIT UP AND PROCEDURES AS WELL AS THE WELDS. THE INSPECTOR SHALL USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF THE WELDS, INCLUDING THE USE OF GAMMA RAY, MAGNAFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUALLY INSPECT AND TO ASCERTAIN THE ADEQUACY OF THE WELDING. THE INSPECTOR SHALL FURNISH THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH A REPORT VERIFYING THAT ALL WELDS HAVE BEEN DONE IN CONFORMITY WITH THE PLANS, SPECIFICATIONS, AWS D1.1 AND ANY APPLICABLE CODES. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FABRICATION AND ERECTION REQUIREMENTS MAY DICTATE FIELD WELDING AND/OR SHOP WELDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHOD OF WELDING TO FULFILL THESE REQUIREMENTS. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM AS DEFINED ON THE PLANS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES FAHRENHEIT AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
7. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ITEMS REQUIRED BY THE SPECIFICATIONS AND THE FOLLOWING:
   - A. DESIGNATION OF THE MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM
   - B. CONNECTION MATERIAL SPECIFICATIONS AND SIZES
8. WHERE CLOSER THAN AISC TOLERANCES ARE NECESSARY, SUCH AS FOR ALIGNMENT OF STEEL STUDS, MULLIONS, GFRC PANELS, ETC., FIELD WELDING WILL BE REQUIRED TO MEET THE NECESSARY TOLERANCES WITH NO ADDITIONAL COSTS TO THE OWNER.
9. USE ONE TYPE OF WELDING ELECTRODE THROUGHOUT ANY ONE CONNECTION.
10. BOLT HOLES IN STEEL SHALL BE 1/16" OVERSIZE UNLESS OTHERWISE NOTED.

COLD FORMED METAL FRAMING NOTES

1. METAL STUD FABRICATION SHALL CONFORM TO AISI SPECIFICATIONS FOR THE DESIGN OF LIGHT GAGE COLD FORMED SECTIONS.
2. ALL GALVANIZED STUDS (AND/OR) JOISTS, 54, 68 AND 97 MIL, SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A446, GRADE D, WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
3. ALL GALVANIZED 33 AND 43 MIL STUDS (AND/OR) JOISTS, AND ALL GALVANIZED TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A446, GRADE A, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.
4. METAL STUD PROPERTIES SHALL BE PER METAL STUD MANUFACTURERS ASSOCIATION STANDARDS.
5. ALL WELDS FOR LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AISC AND AISI SPECIFICATIONS.
6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
7. ALL WELDS SHALL BE INSPECTED BY A CERTIFIED WELDING INSPECTOR.
8. BEARING STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT ENDS OF THE STUDS ARE POSITIONED AGAINST THE TRACK WEBS, PRIOR TO STUD AND TRACK ATTACHMENT.
9. STUDS SHALL BE SEATED SQUARELY IN THE TRACK WITH THE STUD WEB AND FLANGE ABUTTING THE TRACK WEB, PLUMBED AND ALIGNED, AND SECURELY ATTACHED TO THE FLANGES OR WEB OF BOTH THE UPPER AND LOWER TRACKS.
10. WALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION. BRIDGING ROWS SHALL BE EQUALLY SPACED NOT TO EXCEED 4'-0" ON CENTER.
11. SPLICES IN BEARING STUDS SHALL NOT BE PERMITTED.
12. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS UNLESS OTHERWISE DETAILED.
13. JOIST BRIDGING SHALL BE PROVIDED AS SHOWN ON PLANS AND AS RECOMMENDED BY THE AMERICAN IRON AND STEEL INSTITUTE.
14. PROVIDE ADDITIONAL JOISTS UNDER PARALLEL PARTITIONS AND AROUND ALL FLOOR AND ROOF OPENINGS WHICH INTERRUPT ONE OR MORE SPANNING MEMBERS UNLESS OTHERWISE NOTED.
15. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
16. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETE.
17. FRAMED WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS AS SHOWN ON TYPICAL FRAMING DETAILS PROVIDED BY MANUFACTURER UNLESS OTHERWISE NOTED.
18. PUNCHOUTS SHALL NOT OCCUR WITHIN 12" OF ANY SUPPORT POINT, INCLUDING TRACKS, OR SUPPORT CLIPS, OR CONNECTIONS OF HEADERS OR SILLS TO STUDS.
19. ALL CHANNEL AND FITTING MEMBERS SHOWN ARE "UNISTRUT" AS MANUFACTURED BY UNISTRUT CORPORATION, WAYNE, MICHIGAN AND DISTRIBUTED BY UNISTRUT NORTHERN CALIFORNIA (2090 FARALLON DRIVE, SAN LEANDRO, CALIFORNIA).
20. ALL FRAMING CHANNELS SHALL BE ACCURATELY COLD FORMED TO 1-5/8" x 1-5/8" FROM 12 GAGE STRIP STEEL.
21. ALL FITTINGS SHALL BE PUNCH PRESSED ACCURATELY TO ALLOW SQUARE AND TRUE ASSEMBLY.
22. SPRING NUTS SHALL BE MANUFACTURED WITH TWO SERRATED GROOVES ON TOP. RESISTANCE TO SLIP SHALL BE NOT LESS THAN 1500 POUNDS PER BOLT AND WITH A PULL-OUT STRENGTH OF NOT LESS THAN 2000 POUNDS PER BOLT WITH A SAFETY FACTOR OF NOT LESS THAN 3.
23. ALL UNISTRUT BOLTED CONNECTIONS SHALL BE TORQUED TO 50 FT-LBS MINIMUM WITH A CALIBRATED TORQUE WRENCH AND SHALL BE DONE BY THE CONTRACTOR AND VERIFIED BY AN INDEPENDENT TESTING INSPECTOR.

EXPANSION ANCHORS IN HARDENED CONCRETE OR CONCRETE MASONRY UNIT NOTES

1. INSTALLATION: THE ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN ICBO RESEARCH COMMITTEE RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
2. HOLES FOR EXPANSION ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
3. JOB TESTING AND INSPECTION: CONTINUOUS VISUAL INSPECTION OF ANCHOR INSTALLATION IS REQUIRED. TEST FIRST TEN INSTALLED ANCHORS OF EACH SIZE TO TENSION PROOF LOAD. IF ALL PASS, TEST 10% OF REMAINING ANCHORS. IF ANY ANCHOR FAILS, TEST ALL ANCHORS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 10% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, A TORQUE WRENCH CALIBRATED USING THE SPECIFIC ANCHOR, CALIBRATED SPRING-LOADED DEVICES, ETC. ANCHORS IN WHICH THE TORQUE IS USED TO EXPAND THE ANCHOR WITHOUT APPLYING TENSION TO THE BOLT MAY NOT BE VERIFIED WITH A TORQUE WRENCH.
4. ALL EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KB-TZ, (PER ESR-1917) OR APPROVED EQUAL.
5. ALL EXPANSION ANCHORS IN MASONRY SHALL BE HILTI KB-3, (PER ESR-1385) OR APPROVED EQUAL.
6. TEST INSPECTOR SHALL VERIFY ALL EXPANSION ANCHORS NOT TENSION LOAD TESTED FOR MINIMUM INSTALLATION TORQUE NOTED IN SCHEDULE BELOW.
7. TENSION PROOF LOAD SHALL BE BY AN INDEPENDENT TESTING LABORATORY.
8. EXPANSION ANCHOR BOLT SCHEDULE:
   - A. CARBON STEEL (CS) AND STAINLESS STEEL (SS) HILTI KB-TZ IN NORMAL WEIGHT CONCRETE (ICC ESR NO. 1917 EXPIRES 05-2017).

   WITH f'c = 3000 psi:

ANCHOR DIAMETER	MINIMUM HOLE DEPTH	MINIMUM EMBEDMENT	EFFECTIVE ALLOWABLE LOAD (LBS)	STATIC TENSION LOAD (LBS)	PROOF MINIMUM TORQUE (FT-LBS)	INSTALLATION
3/8"	2.62"	2.00"	1054(CS)/1086(SS)	2108	25	
1/2"	4.00"	3.25"	2500(CS)/2533(SS)	4648	40	
5/8"	4.75"	4.00"	3458(CS)/2970(SS)	6916	60	
3/4"	5.75"	4.75"	4475(CS)/4475(SS)	8950	110	

   HOLE DEPTHS SHALL BE LENGTH OF ANCHOR PLUS ONE DIAMETER.

GROUTED ANCHORS AND DOWELS IN HARDENED CONCRETE OR MASONRY NOTES

1. GROUT FOR SETTING ANCHORS OR DOWELS IN HARDENED CONCRETE SHALL BE SIMPSON SET-XP (PER ESR-2508), HILTI HIT RE-500SD (PER ESR-2322), OR APPROVED EQUAL.
2. GROUT FOR SETTING ANCHORS IN CONCRETE MASONRY SHALL BE SIMPSON SET-XP (PER IAMPO REPORT 265), HILTI HY-150 MAX (PER ESR 1967) OR APPROVED EQUAL.
3. HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
4. USE SCREEN TUBE WHERE REQUIRED BY EPOXY MANUFACTURER IN HOLLOW MASONRY OR BRICK CONSTRUCTION. VERIFY HOLE DIAMETER FOR SCREEN TUBE PRIOR TO DRILLING.
5. JOB TESTING AND INSPECTION: CONTINUOUS SPECIAL INSPECTION OF ALL GROUTED ANCHOR AND DOWEL INSTALLATION IS REQUIRED. TESTING SHALL BE AS FOLLOWS:
   - A. THREADED RODS: TEST FIRST 5 INSTALLED RODS OF EACH SIZE TO TENSION PROOF LOAD SHOWN ON GROUTED ANCHOR SCHEDULE. IF ALL PASS, TEST 5% OF REMAINING RODS. IF ANY ROD FAILS, TEST ALL RODS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 5% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
   - B. HOLDOWN ANCHORS: TEST 100% OF ANCHORS USED TO TENSION PROOF LOAD PER TABLE ON TYPICAL HOLDOWN DETAIL.
   - C. REINFORCING BAR ANCHORS, #5 AND LARGER: TEST PER THREADED ROD REQUIREMENTS ABOVE
   - D. REINFORCING BAR ANCHORS #4 AND SMALLER: NO TESTING REQUIRED. VISUAL OBSERVATION ONLY.

SYMBOLS AND ABBREVIATIONS

A/S2.1	SECTION A ON DRAWING S2.1	GA	GAGE, GAUGE	SAD	SEE ARCHITECTURAL DRAWING
@	AT	GALV	GALVANIZED		OR SEE ARCHITECTURAL DETAIL
&	AND	GB	GRADE BEAM	SCD	SEE CIVIL/SITE DRAWINGS
°	DEGREE	GLM	GLUED LAMINATED	SCHED	SCHEDULE
Ø OR DIA	DIAMETER	GYP BD	GYPSUM BOARD	SEC	SECTION
#	NUMBER OR POUND			SED	SEE ELECTRICAL DRAWINGS
(E)	EXISTING	HD	HOLDOWN	SHT	SHEET
(N)	NEW	HDG	HOT-DIPPED GALVANIZED	SHTG	SHEATHING
		HDR	HEADER	SIM	SIMILAR
AB	ANCHOR BOLT	HGR	HANGER	SLD	SEE LANDSCAPE DRAWINGS
AC	ASPHALT CONCRETE	HOR	HORIZONTAL	SLRS	SEISMIC LOAD RESISTING SYSTEM
ADDL	ADDITIONAL	HP	HIGH POINT	SMD	SEE MECHANICAL DRAWINGS
ADJ	ADJACENT	HSB	HIGH STRENGTH BOLT		OR SEE MECHANICAL DETAIL
AFF	ABOVE FINISH FLOOR	HSS	HOLLOW STEEL SECTION	SMS	SHEET METAL SCREW
ALT	ALTERNATE	HT	HEIGHT	SOG	SLAB ON GRADE
APPROX	APPROXIMATE			SPD	SEE PLUMBING DRAWINGS
ARCH	ARCHITECT OR ARCHITECTURAL	ID	INSIDE DIAMETER	SPEC(S)	SPECIFICATION(S)
ATS	ANCHOR TIEDOWN SYSTEM	IF	INSIDE FACE	SQ	SQUARE
ATTN	ATTENTION	INT	INTERIOR	SS	SOLID SAWN
		INV	INVERT	STAG	STAGGERED
BD	BOARD			STD	STANDARD
BLDG	BUILDING	JST	JOIST	STIFF	STIFFENER
BLK	BLOCK	JT(S)	JOINT(S)	STL	STEEL
BLKG	BLOCKING			STRUCT	STRUCTURAL
BM	BEAM	K	KIPS (1000 LBS)	SW	SHEAR WALL
BO	BOTTOM OF			SWL	SHEAR WALL LENGTH
BOT	BOTTOM	LBS	POUNDS	SYM	SYMMETRICAL
BRB	BUCKLING-RESTRAINED BRACE	LG	LONG		
BS	BOTH SIDES	LL	LIVE LOAD	TB	TIE BEAM
BTWN	BETWEEN	LLH	LONG LEG HORIZONTAL	T&B	TOP & BOTTOM
		LLV	LONG LEG VERTICAL

SHEET NOTES

1. SEE GENERAL NOTES ON S1.0 FOR INFORMATION NOT SHOWN OR NOTED.
2. SEE DETAILS ON SHEET S5.1 AND 5.2 NOT SPECIFICALLY REFERENCED.
3. COMPACT ALL SOIL TO 90% RELATIVE DENSITY PER ASTM D1557 UNDER ALL FOOTINGS AND SLABS.
4. SEE ARCHITECTURAL, LANDSCAPE, CIVIL AND MECHANICAL DRAWINGS FOR PLANS AND DETAILS TO MATCH, INTERIOR AND EXTERIOR TO BUILDING.
5. COORDINATE EXTERIOR CONC. ELEVATIONS, SLOPES AND SLAB JOINTS WITH LANDSCAPE PLANS.

5" SLAB-ON-GRADE TYP. W/ #4@12" OC EW OVER 12" GRAVEL OVER COMPACTED SUBGRADE

5" SLAB-ON-GRADE TYP. W/ #4@12" OC EW OVER 12" GRAVEL OVER COMPACTED SUBGRADE

5" SLAB-ON-GRADE TYP. W/ #4@12" OC EW OVER 12" GRAVEL OVER COMPACTED SUBGRADE

HSS 5x4x¼ COL.

REMOVE AND REPLACE 5" SLAB-ON-GRADE SLOPE TO DRAINS S.A.D. W/ #4@12" OC EW OVER 15 MIL W.P. MEMBRANE OVER 12" GRAVEL OVER COMPACTED SUBGRADE

(N) 13" CONC. WALL AND FOOTING, SEE 20/S5.3

HSS 5x4x¼ COLUMNS

5" SLAB-ON-GRADE TYP. W/ #4@12" OC EW OVER 12" GRAVEL OVER COMPACTED SUBGRADE

5" SLAB-ON-GRADE TYP. W/ #4@12" OC EW OVER 12" GRAVEL OVER COMPACTED SUBGRADE

1/S2.1 BUILDING 900 GROUND FLOOR PLAN AND PLAZA PLANS

1/8"=1'-0"

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BK — Date: 02.15.2017
Architect — License No. A-0000000

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APPLICATION # : 01-116168

FILE # : 43-H10

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SSS: WD DATE: FEB 23 2017

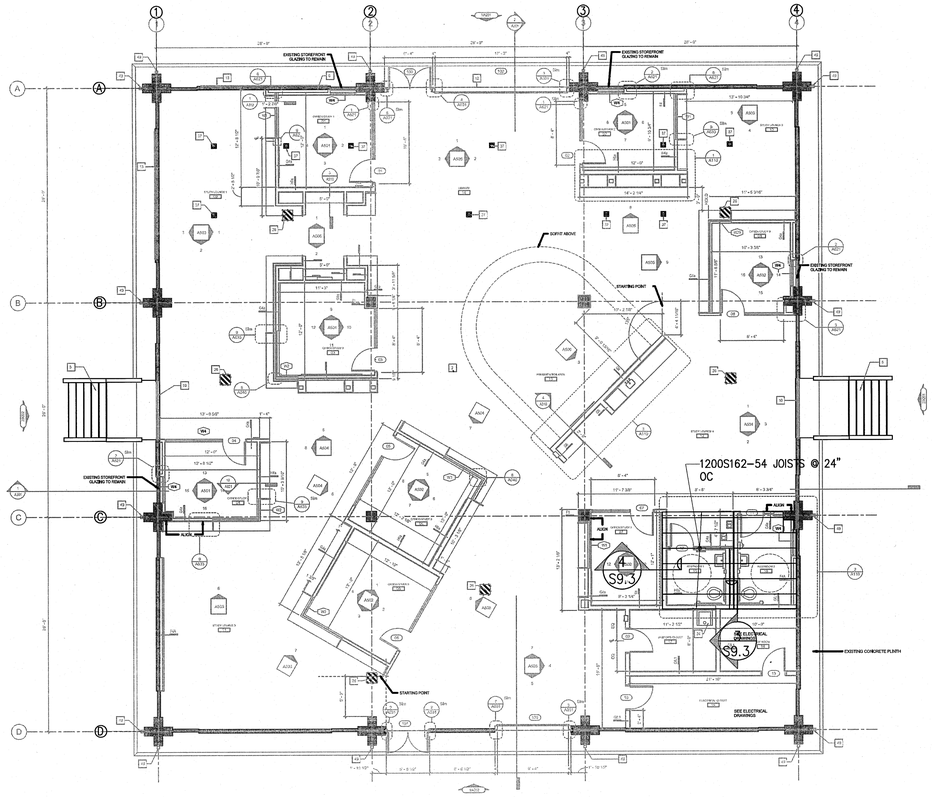
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Project No 1115-0130
Date: February 15, 2017
Sheet:

GROUND FLOOR AND PLAZA PLAN

S2.1

PERMIT BACKCHECK



1 S2.1 **BUILDING 900 CEILING FRAMING**

1/8"=1'-0"

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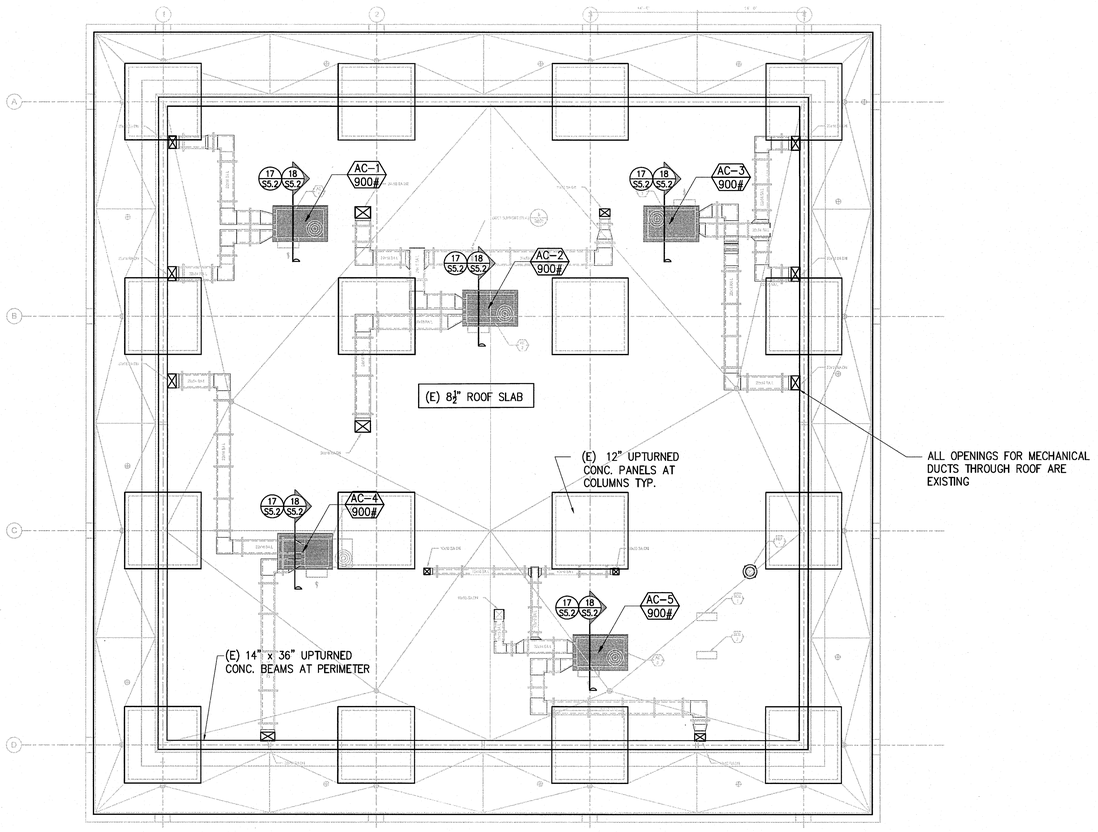
INTERIOR CEILING PLAN

S2.2

PERMIT BACKCHECK

SHEET NOTES

1. SEE GENERAL NOTES ON S1.0 FOR INFORMATION NOT SHOWN OR NOTED.
2. SEE MECHANICAL PLANS FOR UNITS AND DUCTS.
2. SEE DETAILS 17 AND 18 ON S5.2 FOR MECHANICAL UNIT ANCHORAGE.



1 S2.2 **BUILDING 900 ROOF MECHANICAL ANCHORAGE PLAN**

1/8"=1'-0"

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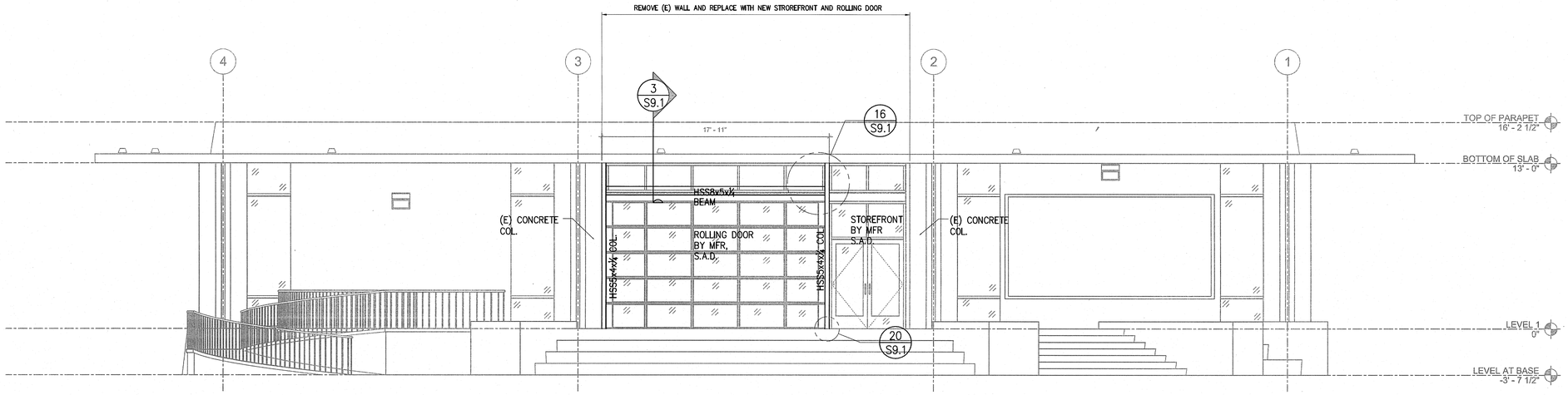
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ROOF MECH PLAN

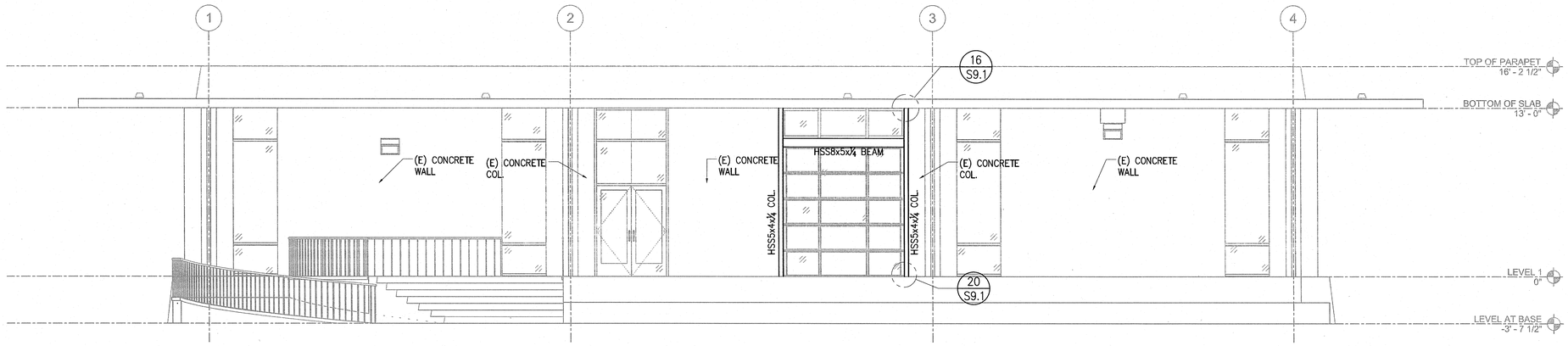
S2.3

PERMIT BACKCHECK



1 / S2.1 BUILDING 900 - NORTH WALL ELEVATION

1/4"=1'-0"



2 / S2.1 BUILDING 900 - SOUTH WALL ELEVATION (ADD ALTERNATE WORK)

1/4"=1'-0"

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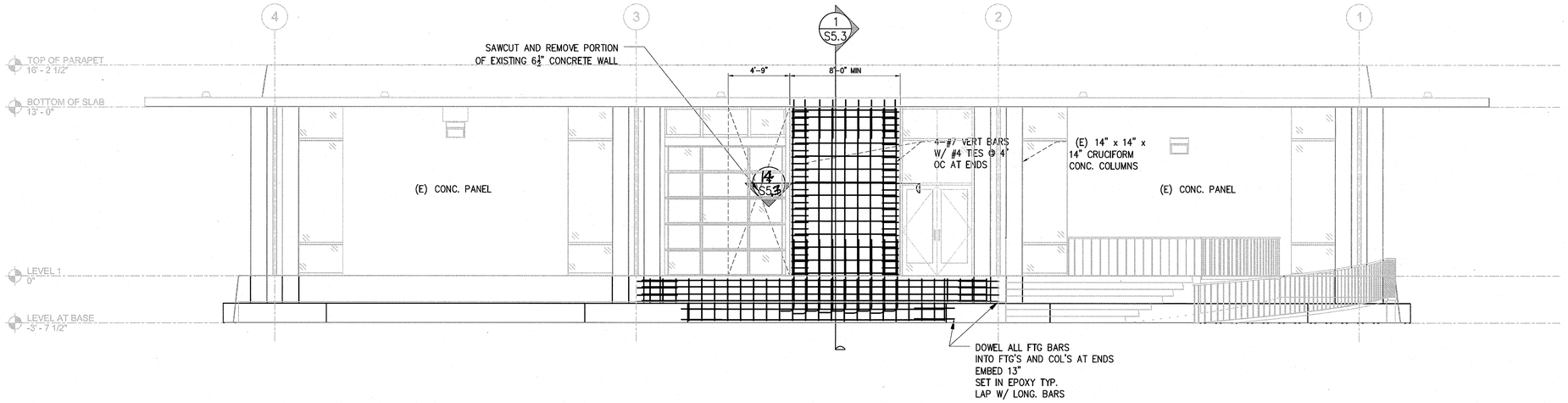
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WALL ELEVATIONS

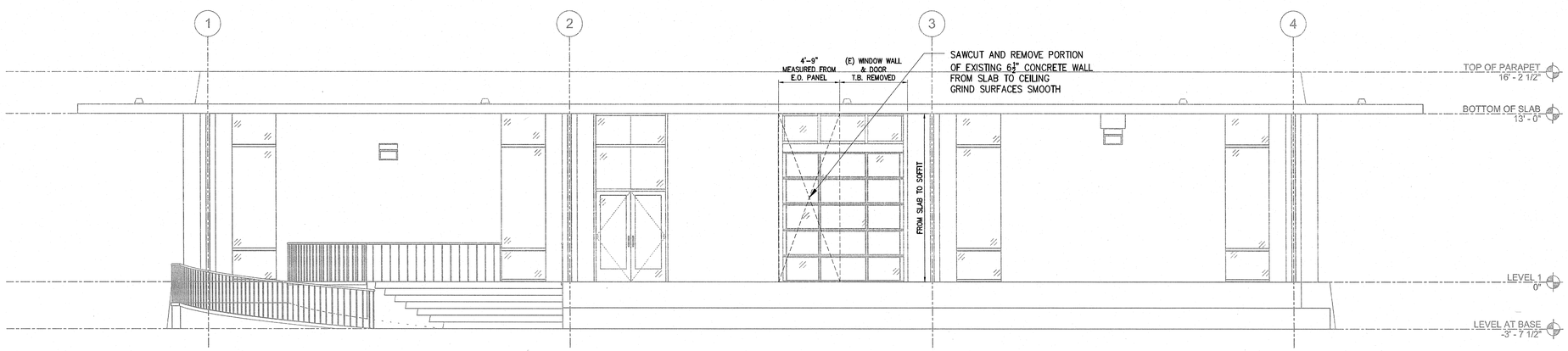
S3.1

PERMIT BACKCHECK



1 S3.2 SOUTH CONCRETE WALL STRENGTHENING (LOOKING FROM INSIDE BLDG SOUTH)

1/4"=1'-0"



2 S3.2 BUILDING 900 - SOUTH CONCRETE WALL DEMOLITION (LOOKING FROM OUTSIDE BUILDING)

1/4"=1'-0"

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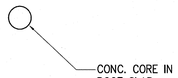
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SOUTH WALL ELEVATIONS
S3.2

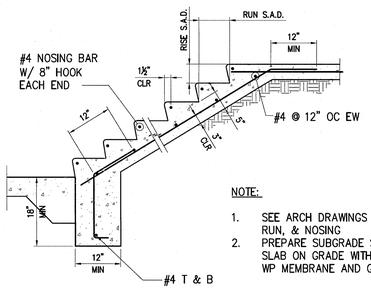
PERMIT BACKCHECK

NOTE:

1. UP TO 6" DIA. CONC. CORE HOLES FOR ROOF DRAINS.
2. XRAY SLAB TO AVOID DAMAGE TO EXISTING REBAR.



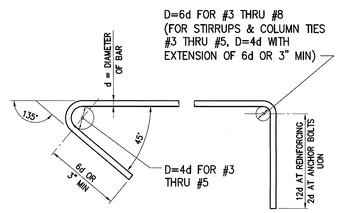
17 S5.1 **ROOF SLAB CORE HOLES** NTS



NOTE:

1. SEE ARCH DRAWINGS FOR RISE, RUN, & NOSING
2. PREPARE SUBGRADE SAME AS SLAB ON GRADE WITH SAND, WP MEMBRANE AND GRAVEL.

13 S5.1 **CONC STAIRS ON GRADE** NTS



NOTES:

ALL GRADES OF STEEL
D = MINIMUM FINISHED INSIDE BEND DIA.
d = NOMINAL REBAR DIAMETR
TOL = TOLERANCE (PER ACI 117)

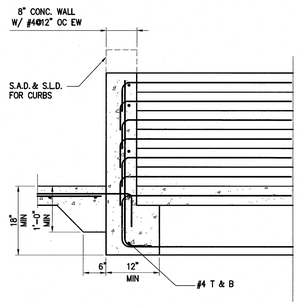
9 S5.1 **TYPICAL REINFORCING BAR & ANCHOR BOLT HOOK** NTS

CONCRETE STRENGTH PSI	BAR TYPE	BAR SIZE #3		#4		#5		#6		#7		#8		#9		#10		#11	
		CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
3000	TOP BAR	22	28	29	37	36	47	43	56	63	81	72	93	81	105	91	118	101	131
	ALL OTHER BARS	17	22	22	29	28	36	33	43	48	63	55	72	62	81	70	91	78	101
4000	TOP BAR	19	24	25	33	31	41	37	49	54	71	62	81	70	91	79	102	87	113
	ALL OTHER BARS	15	19	19	25	24	31	29	37	42	54	48	62	54	70	61	79	67	87
5000	TOP BAR	19	24	25	33	31	41	37	49	54	71	62	81	70	91	79	102	87	113
	ALL OTHER BARS	15	19	19	25	24	31	29	37	42	54	48	62	54	70	61	79	67	87

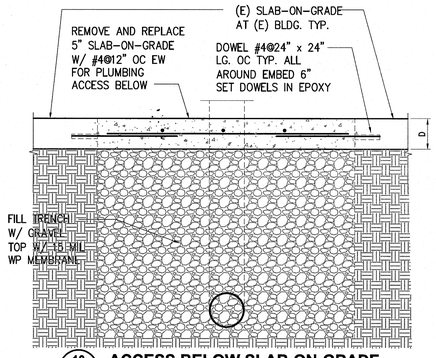
NOTES:

1. SPLICE LENGTH IN INCHES.
2. USE CLASS B FOR ALL LAP SPLICES EXCEPT CLASS A MAY BE USED FOR NON-STRUCTURAL SLABS ON GRADE.
3. TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS.
4. TABLE IS BASED UPON MINIMUM CLEAR COVER GREATER THAN ONE BAR DIAMETER AND MINIMUM CLEAR SPACING GREATER THAN TWO BAR DIAMETERS. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.

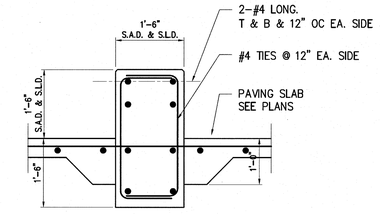
5 S5.1 **REINFORCING BAR LAP SPLICE SCHEDULE IN CONCRETE**



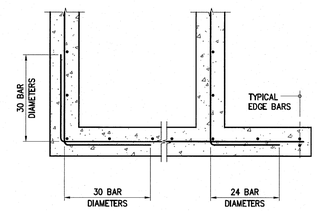
14 S5.1 **CONC STAIRS ON GRADE WALL AT EDGES** NTS



10 S5.1 **ACCESS BELOW SLAB-ON-GRADE FOR PLUMBING AND UTILITIES** NTS

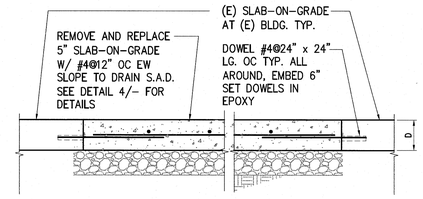


6 S5.1 **CONC. SEAT WALL** NTS

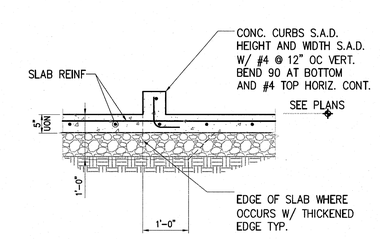


SINGLE CURTAIN PLAN

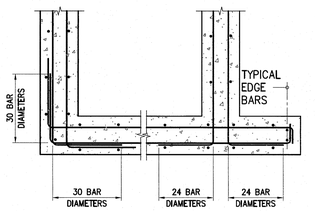
2 S5.1 **TYPICAL REINFORCING AT WALL & FTG CORNERS** NTS



11 S5.1 **REMOVE AND REPLACE SLAB AT BATHROOMS** NTS

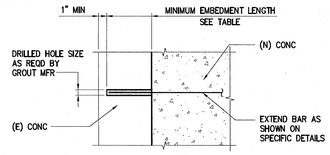


7 S5.1 **CONC. CURBS** NTS



DOUBLE CURTAIN PLAN

3 S5.1 **TYPICAL REINFORCING AT WALLS & FTG CORNERS** NTS

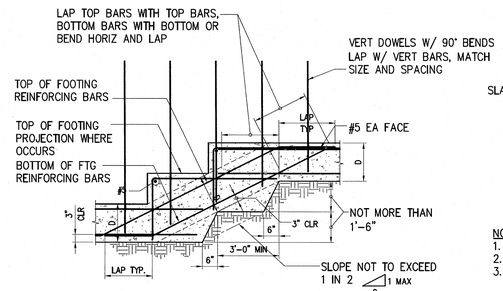


BAR SIZE	THREADED ROD SIZE	MIN EMBEDMENT LENGTH (1), (2)	TENSION PROOF LOAD (LBS) REINFORCING BAR	TENSION PROOF LOAD (LBS) THREADED ROD
#3	⅜"ø	3½"	–	5,100
#4	½"ø	4½"	–	8,850
#5	⅝"ø	5"	12,300	13,360
#6	¾"ø	6¾"	19,190	21,050
#7	⅞"ø	7¾"	23,880	24,580
#8	1"ø	9"	26,840	30,030

NOTES:

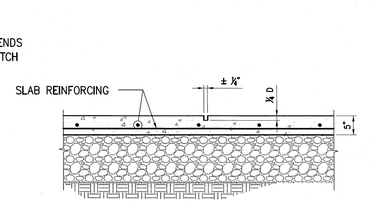
1. EMBEDMENT LENGTHS SHOWN ON SPECIFIC DETAILS SUPERCEDE SCHEDULE.
2. ANCHOR EMBEDMENT INTO WALLS AND SLABS SHALL NOT EXCEED THICKNESS (IN DIRECTION OF DRILLING) MINUS ONE INCH.
3. SEE GENERAL NOTES FOR GROUT OR EPOXY REQUIREMENTS. SUBMIT TECHNICAL INFORMATION TO STRUCTURAL ENGINEER FOR APPROVAL.
4. THREADED RODS SHALL CONFORM TO ASTM A193. GRADE B7.
5. TENSION PROOF LOAD IS 2x ALLOWABLE LOAD IN 3000 PSI CONCRETE BASED ON ALLOWABLE STRENGTH DESIGN (ASD).

16 S5.1 **GROUTED OR EPOXY ANCHOR SCHEDULE** NTS



NOTE:
SEE FOUNDATION PLAN FOR WHERE REQUIRED OR AS REQUIRED DUE TO FIELD CONDITIONS.

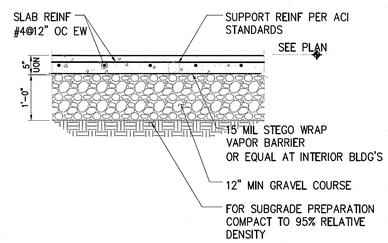
12 S5.1 **TYPICAL STEPPED FOOTING** NTS



NOTES:

1. SEE LANDSCAPE DRAWINGS FOR JOINTS EXTERIOR TO BUILDING.
2. AT INTERIOR:
3. CONTINUOUS SAWCUT CONTROL JOINT. CUT SLAB IMMEDIATELY AFTER INITIAL CONCRETE SET AND PLACE BEFORE FINAL CURING ALTERNATIVELY FORM JOINT WITH PREMOLDED STRIP IN FRESH CONCRETE.
4. FILL GROOVE WITH JOINT FILLER SEALANT.
5. WHERE POSSIBLE, APPLY FILLER WHILE BLDG IS UNDER PERMANENT TEMPERATURE CONTROL.
6. PLACE AT 15'-0" OC MAX EA. WAY BETWEEN CJ's.
7. SUBMIT SHOP DRAWING FOR PROPOSED LOCATIONS.

8 S5.1 **CONTROL JOINT (C) CONC SLAB ON GRADE** NTS



4 S5.1 **TYPICAL SLAB-ON-GRADE** NTS

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SSS: N/S DATE: FEB 23 2017
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Project No 1115-0130
Date: February 15, 2017
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CONCRETE DETAILS

S5.1

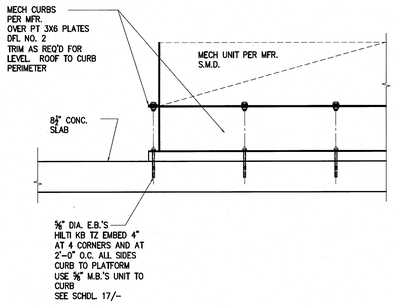
PERMIT BACKCHECK

MECH UNIT ID	EB & MB BOLTS AT CORNERS	EB & MB BOLTS LONG SIDES	EB & MB BOLTS SHORT SIDES	REFERENCE DETAIL
AC UNITS NO. 1 TO 5 (900#)	4–⅝" ø	⅝" AT 2'–0" OC	⅝" AT 2'–0" OC	18/S5.2

NOTE:
CONSULT ARCH & MECH DRAWINGS TO DETERMINE EXACT LOCATION OF UNITS. GALVANIZE ALL EXPOSED STEEL, WELDS AND BOLTS.

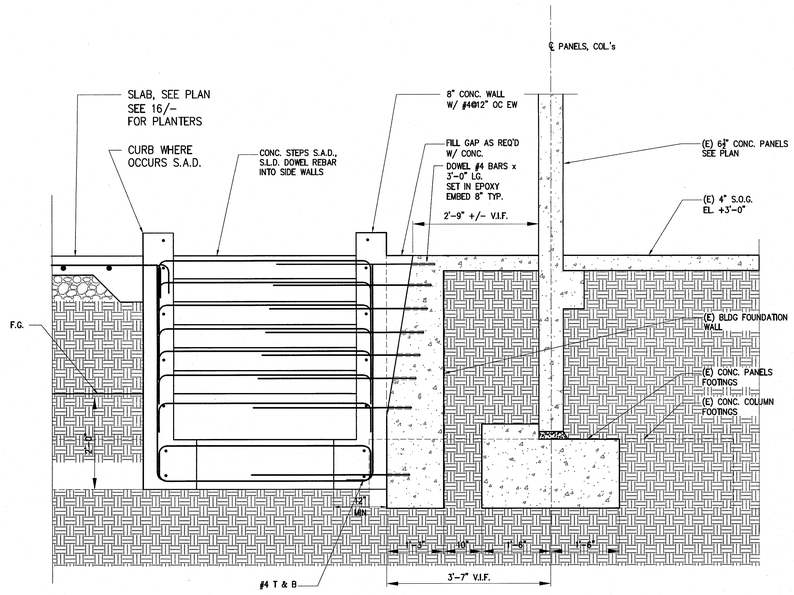
17 S5.2 MEP UNIT ANCHORAGE SCHEDULE

3/4"=1'-0"



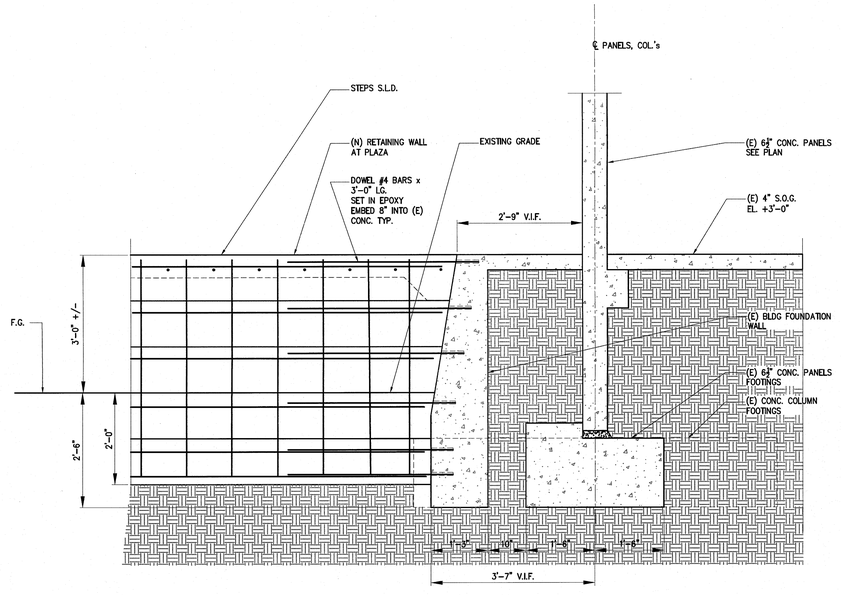
18 S5.2 MECH UNIT ANCHORAGE DETAIL

3/4"=1'-0"



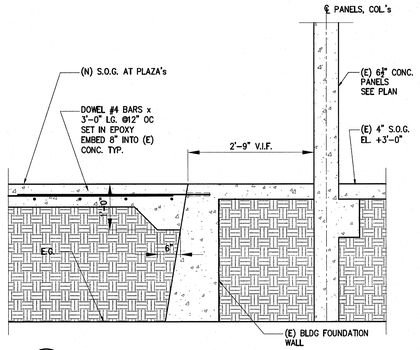
14 S5.2 COURTYARD STAIRS NEXT TO (E) BLDG. FOUNDATIONS

3" = 1'-0"

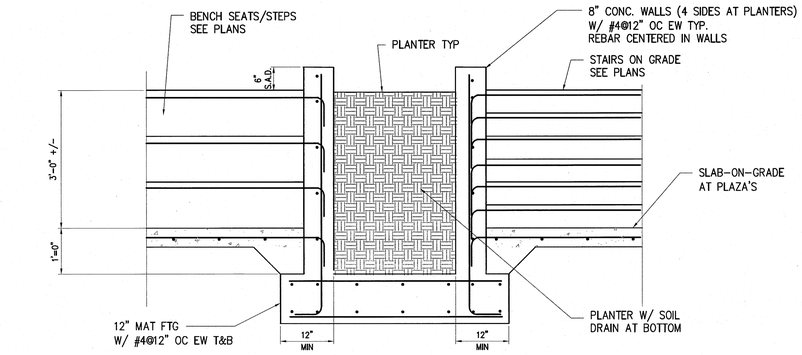


6 S5.2 DOWEL (N) COURTYARD SLAB AND STEPS/WALLS TO (E) BLDG. FOUNDATIONS

3" = 1'-0"



15 S5.2 DOWEL (N) COURTYARD SLABS TO (E) BLDG. FDN. WALLS

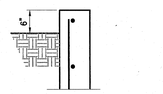


11 S5.2 PLANTERS BETWEEN BENCH SEATS AND STAIRS AT EXTERIOR PLAZAS

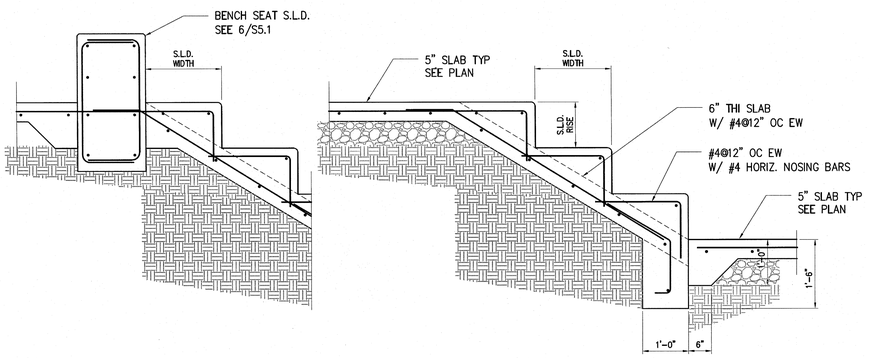
3" = 1'-0"

RETAINING WALL SCHEDULE

RETAINED HEIGHT MAX	WALL THI.	WALL VERT. REBAR	FTG. THI.	FTG WIDTH	TOP BARS
3'–0"	8"	#5@12" OC	1'–3"	4'–0"	#4@12
2'–0"	8"	#4@12" OC	1'–0"	2'–0"	–

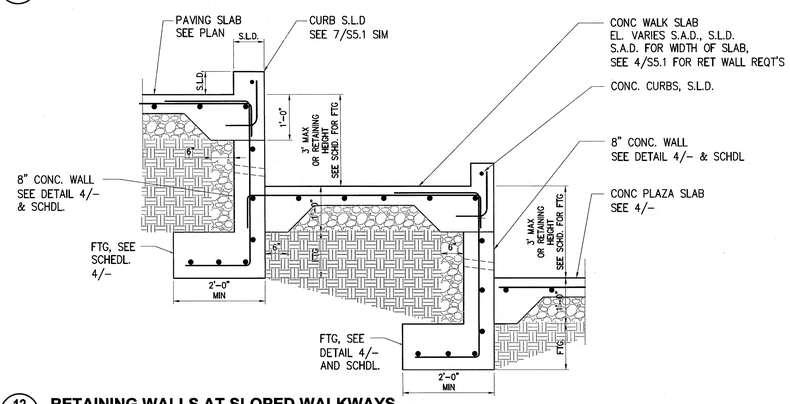


RETAINING WALL AT PLANTERS



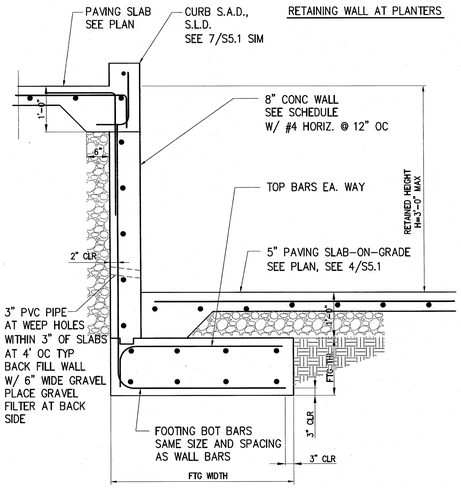
20 S5.2 BENCH SEATS AT PLAZA

3" = 1'-0"



12 S5.2 RETAINING WALLS AT SLOPED WALKWAYS

3" = 1'-0"



4 S5.2 RETAINING WALLS

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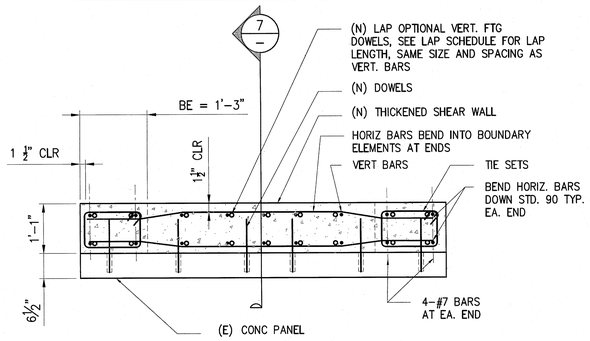
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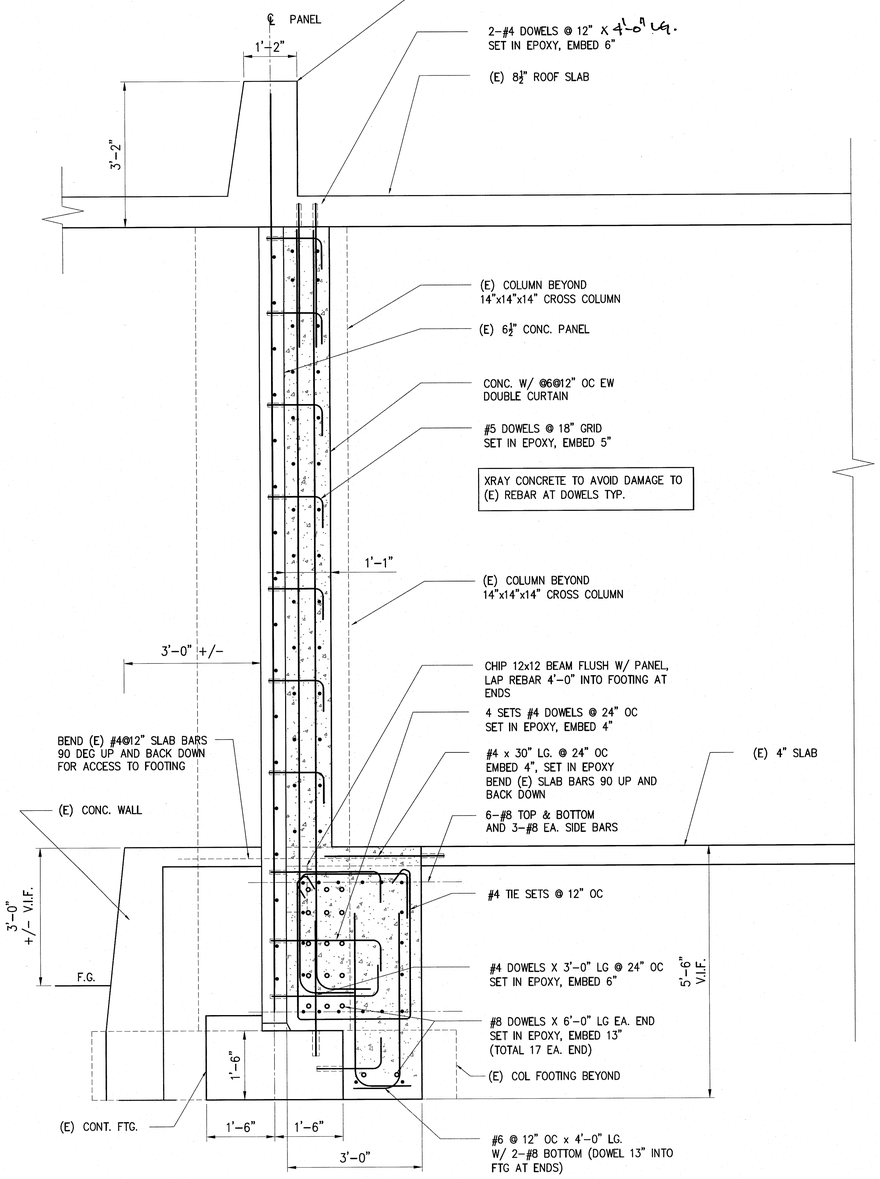
S5.2

PERMIT BACKCHECK



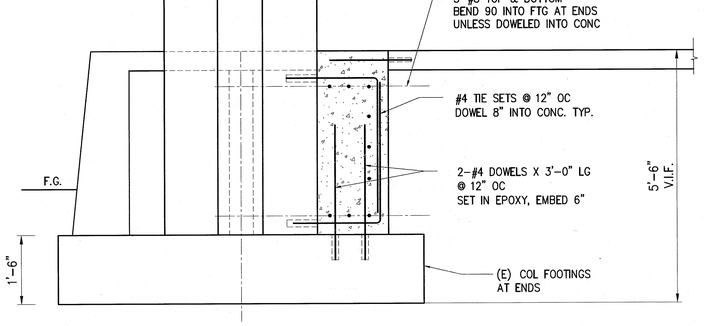
14 / S5.3 PLAN SECTION AT STRENGTHENED CONCRETE PANEL

3/4" = 1'-0"



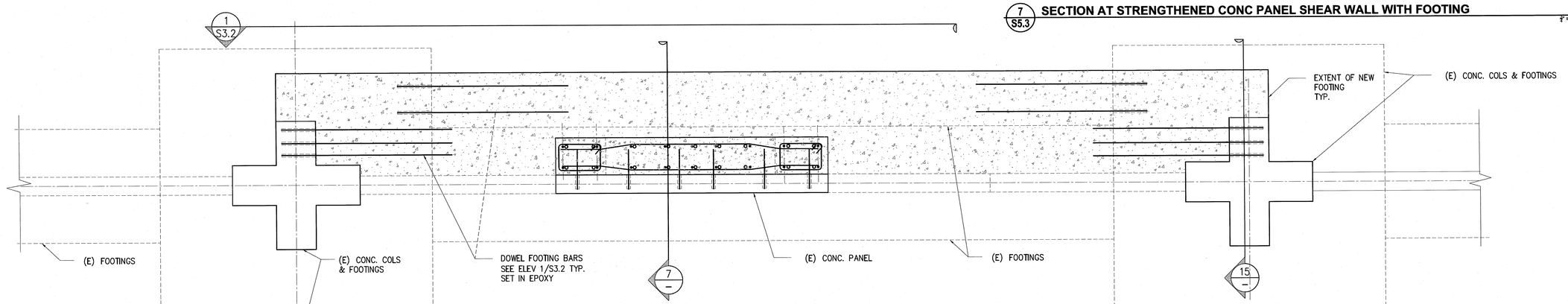
7 / S5.3 SECTION AT STRENGTHENED CONC PANEL SHEAR WALL WITH FOOTING

3/4" = 1'-0"



15 / S5.3 SECTION AT FOOTINGS AT ENDS

3/4" = 1'-0"



20 / S5.3 PLAN OF STRENGTHENED CONC. PANEL AND FOOTINGS

3/4" = 1'-0"

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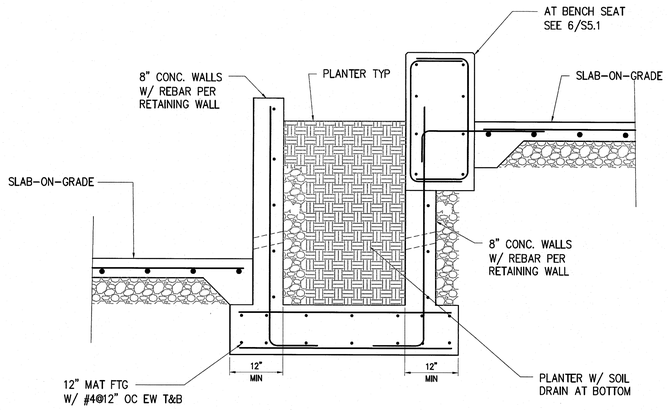
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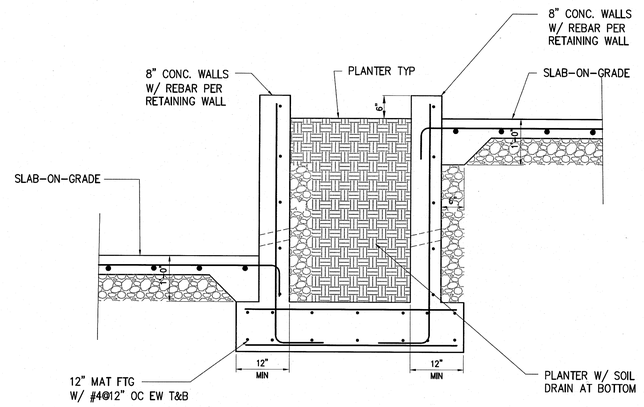
S5.3

PERMIT BACKCHECK



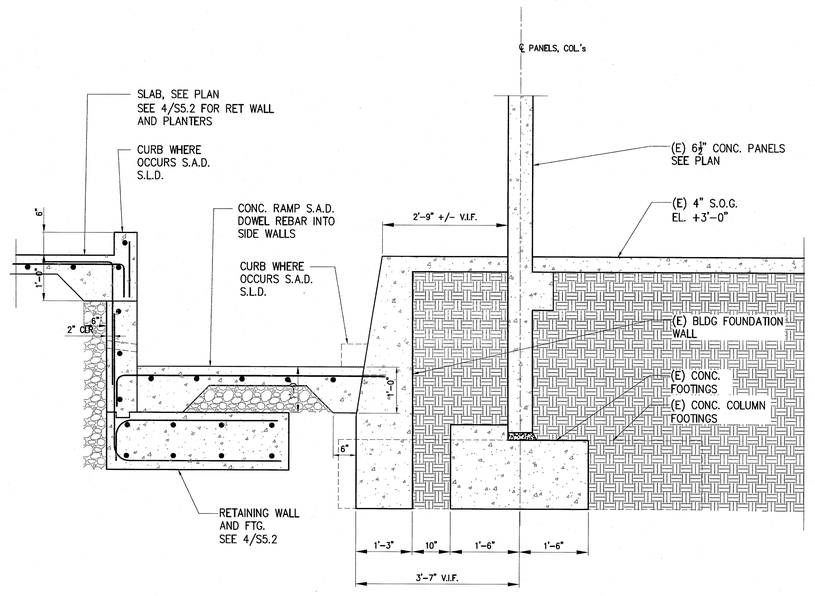
14 S5.4 PLANTERS AT EXTERIOR PLAZAS WITH BENCH SEAT

3/4" = 1'-0"



6 S5.4 PLANTERS AT EXTERIOR PLAZAS

3/4" = 1'-0"



8 S5.4 COURTYARD RAMPS ADJACENT TO (E) BLDG. WALLS

3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL
CALIFORNIA

Architectural Corporation
California License No.: 000901
BK Date: 02.15.2017
Architect License No. A-0000000

DIVISION OF THE STATE ARCHITECT

APPLICATION # : 01-116168

FILE # : 43-H10

AC: — FLS: —

SSS: N/A DATE: FEB 23 2017

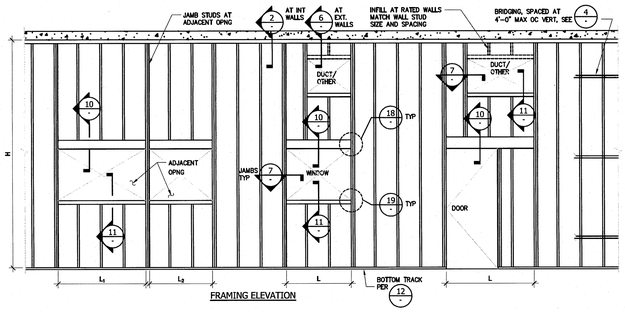
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

CONCRETE DETAILS

S5.4

PERMIT BACKCHECK



FRAMING ELEVATION

1. PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

EXTERIOR METAL STUD SCHEDULE

REF.: STEEL STUD MANUFACTURER'S ASSOCIATION (ICC 3064P)

NOMINAL SIZE	CATALOG SIZE	MINIMUM PROPERTIES			YIELD STRESS (KSI)	STUD SPACING (INCHES)	MAX. HEIGHT H (FEET)
		Ix in4	Sx in3	Mo in-k			
EXTERIOR STUDS							
6"x16 GA	6005162-54	2.860	0.953	27.76	50 KSI	16" OC	20'-0"
TRACKS							
6"x16GA	600T150-54	2.611	0.843	14.11		BOTTOM TRACK TOP NESTING TRACK TOP CAPPING TRACK	
6"x16GA	600T150-54	2.611	0.843	14.11			
6"x16GA	600T200-54	3.145	1.015	21.48			

PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

INTERIOR METAL STUD SCHEDULE

REF.: STEEL STUD MANUFACTURER'S ASSOCIATION (ICC 3064P)

NOMINAL SIZE	CATALOG SIZE	MINIMUM PROPERTIES			SPACING (INCHES)	MAX. HEIGHT H (FEET)
		Ix in4	Sx in3	Mo in-k		
INTERIOR STUDS						
2½"x20GA	2505125-33	0.175	0.120	2.38	12	11'-11"
3½"x20GA	3625125-33	0.415	0.201	3.98	16	15'-6"
3½"x18GA	3625125-43	0.536	0.265	5.64	16	16'-11"
3½"x16GA	3625125-54	0.655	0.341	10.20	16	18'-1"
4"x20GA	4005137-33	0.603	0.301	5.74	16	15'-6"
6"x20GA	6005137-33	1.582	0.527	10.07	16	15'-6"
4"x18GA	4005137-43	0.776	0.388	8.43	16	17'-0"
6"x18GA	6005137-43	2.043	0.681	14.80	16	20'-0"
INTERIOR TRACKS						
2½"x16GA	250T125-54	0.297	0.188	5.64	TYP TRACK AT 2½" STUDS	
2½"x16GA	250T150-54	0.325	0.197	5.89	TOP TRACK	
2½"x16GA	250T200-54	0.371	0.209	6.25	CAPPING TRACK	
3½"x16GA	362T125-54	0.678	0.312	9.34	TYP TRACK AT 3½" STUDS	
3½"x16GA	362T150-54	0.735	0.325	9.74	TOP TRACK	
3½"x16GA	362T200-54	0.832	0.345	10.34	CAPPING TRACK	
4"x16GA	400T125-54	0.904	0.431	7.53	TYP TOP TRACK AT 4" STUDS	
4"x16GA	400T150-54	1.025	0.489	7.89	TOP TRACK	
4"x16GA	400T200-54	1.268	0.604	8.42	CAPPING TRACK	
6"x16GA	600T125-54	2.344	0.756	13.53	TYP TOP TRACK AT 6" STUDS	
6"x16GA	600T150-54	2.611	0.843	14.11	TOP TRACK	
6"x16GA	600T200-54	3.145	1.015	15	CAPPING TRACK	
400VT250-33	400VT250-33	0.914	0.441		SLOTTED DEFLECTION TRACK*	
600VT250-33	600VT250-33	2.236	0.728		SLOTTED DEFLECTION TRACK*	

*USE 2.5" DEEP, 16 GAGE, SLOTTED TRACK PER DETAIL 2/--, SAME WIDTH AS STUDS, IN LIEU TO NESTED TRACKS LISTED ABOVE AT INTERIOR WALLS AT CONTRACTOR'S OPTION.

2. PROVIDE STUDS IN SCHEDULE UNLESS OTHERWISE NOTED IN STRUCTURAL DRAWINGS OR STRUCTURAL ELEVATION SHEETS.
3. ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A653, A1008 OR A1011.
   18GA AND LIGHTER: MINIMUM YIELD POINT OF 33 KSI
   16GA AND HEAVIER: MINIMUM YIELD POINT OF 50 KSI
   ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LISTED IN ICC REPORT NO. 3064P. ALL STUDS AND TRACK SHALL COMPLY WITH ICC REPORT NO. 3064P.
4. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FINALY IN POSITION UNTIL PROPERLY FASTENED.
5. STUDS AND TRACKS SHALL BE ATTACHED BY WELDING AND SHEET METAL SCREWS AS NOTED ON THE DRAWINGS.
6. PUNCH-OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF FRAMING MEMBERS. PUNCH-OUTS SHALL HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24" AND BE 12" FROM MEMBER ENDS. PUNCH-OUTS SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2½", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4½", KEEP PUNCH-OUTS MINIMUM 12" FROM FLOOR, ROOF OR HEADER CONNECTIONS.
7. SPLICES IN STUDS AND BRACES SHALL NOT BE PERMITTED.
8. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURER, MECHANICAL, ELECTRICAL, PLUMPING AND OTHER TRADES.
9. POWDER ACTUATED FASTENERS (PAF) SHALL BE E-DNI AS MANUFACTURED BY HILTI, ICBO REPORT NO. 2368 OR APPROVED EQUAL. PROVIDE 0.08" THICK x 1.1" SQ OR 1.425" ROUND WASHERS FOR ALL POWDER ACTUATED FASTENERS.
10. PROVIDE SHEET METAL SCREWS (SMS) PER DETAILS THIS SHEET.
11. SEE DETAIL 4 ON THIS SHEET FOR TYPICAL COLD ROLLED CHANNEL (CRC) BRIDGING ATTACHMENTS AND SPLICES. CRC MAY BE OMMITTED WHERE TIME FOLLOWING SHEATHING AND ATTACHMENTS ARE PROVIDED ON BOTH SIDES OF STUDS.

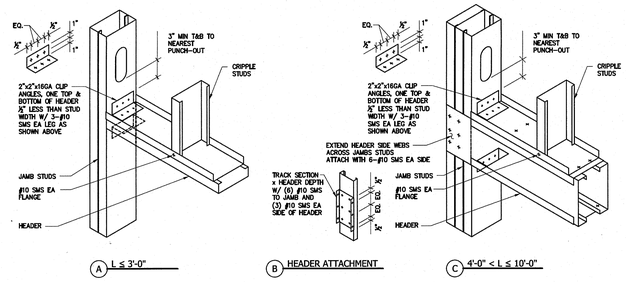
WALL SHEATHING	ATTACHMENT
SINGLE-PLY GYPSUM WALLBOARD AND/OR GYPSUM LATH	ATTACHMENTS AT 12" OC VERTICAL AND EA. STUD AT 16" O.C. MAX
TWO-PLY GYPSUM WALLBOARD	ATTACHMENTS AT 12" OC VERTICAL AND EA. STUD AT 16" O.C. MAX
PLYWOOD	#6 PHILIPS BUGLE HEAD SCREWS SPACED AT 6" O.C. EDGES AND 12" O.C. FIELD

12. SEE ARCHITECTURAL DRAWINGS FOR WALL TYPES AND FINISHES. SEE ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS.
13. ALL EXPOSED STEEL STUDS GALVANIZED

STEEL THICK (MILS)	GAGE REF ONLY
33	20
43	18
54	16
68	14
97	12

17 S9.1 STEEL TYPICAL STUD WALL FRAMING ELEVATION (INTERIOR OR EXTERIOR) AND NOTES

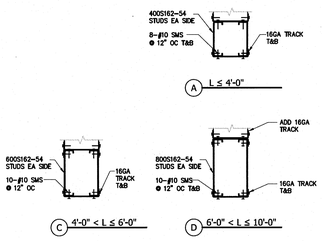
NTS



A L ≤ 3'-0" B HEADER ATTACHMENT C 4'-0" < L ≤ 10'-0"

18 S9.1 HEADER CONNECTIONS (INTERIOR AND EXTERIOR)

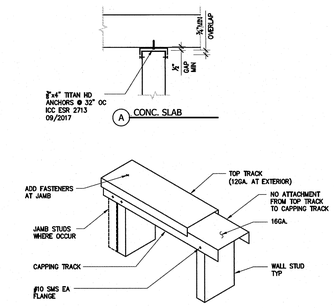
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A L ≤ 4'-0" C 4'-0" < L ≤ 6'-0" D 6'-0" < L ≤ 10'-0"

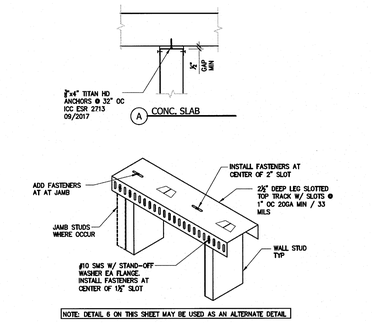
10 S9.1 HEADERS

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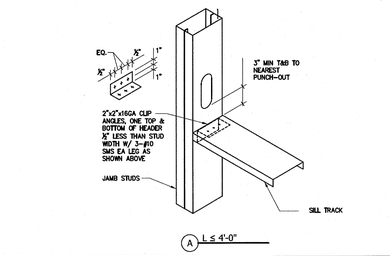
6 S9.1 EXTERIOR TOP TRACK INTERIOR OPTIONAL

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2 S9.1 INTERIOR TOP TRACK

NTS

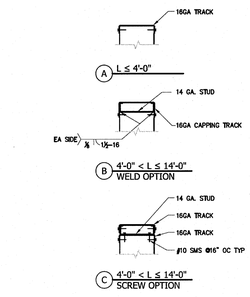


A L ≤ 4'-0" B 4'-0" < L ≤ 10'-0"

NOTE:
WHEN L > 14'-0", SEE DETAIL 12, 16, 20 ON THIS SHEET FOR WALLS ON SLAB-ON-GRADE, ON ELEVATED SLAB, AND AT ROOFS.

19 S9.1 SILL CONNECTIONS (INTERIOR AND EXTERIOR)

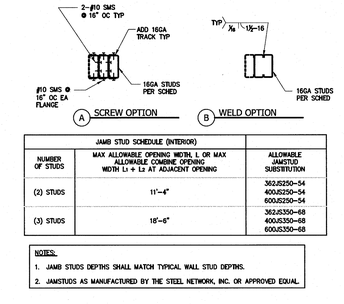
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A L ≤ 4'-0" B 4'-0" < L ≤ 14'-0" WELD OPTION C 4'-0" < L ≤ 14'-0" SCREW OPTION

11 S9.1 SILLS

NTS

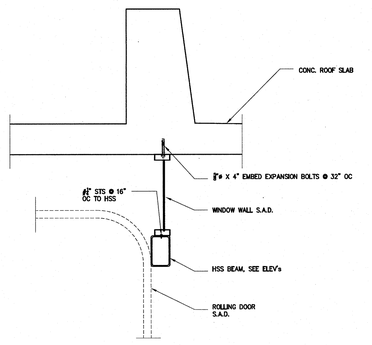


JAMB STUD SCHEDULE (INTERIOR)		
NUMBER OF STUDS	MAX ALLOWABLE OPENING WIDTH, L OR MAX ALLOWABLE COMBINE OPENING WIDTH L1 + L2 AT ADJACENT OPENING	ALLOWABLE JAMSTUD SUBSTITUTION
(2) STUDS	11'-4"	362JS250-54 400JS250-54 600JS250-54
(3) STUDS	18'-6"	362JS350-68 400JS350-68 600JS350-68

NOTES:
1. JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
2. JAMSTUDS AS MANUFACTURED BY THE STEEL NETWORK, INC. OR APPROVED EQUAL.

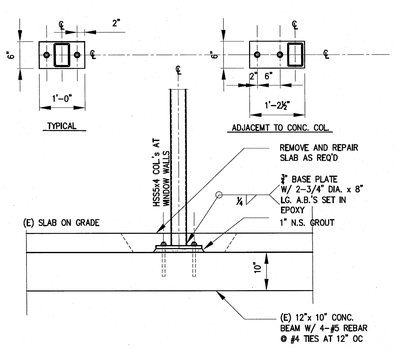
7 S9.1 MULTIPLE JAMB STUDS

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3 S9.1 DETAIL AT STOREFRONT WALL

NTS

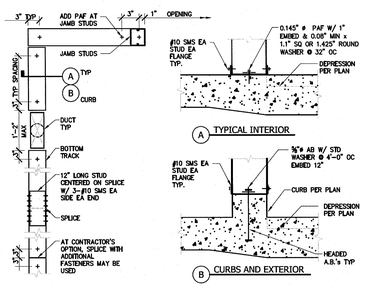


20 S9.1 BASE CONN. AT HSS COLUMNS AT SLAB

1"=1'-0"

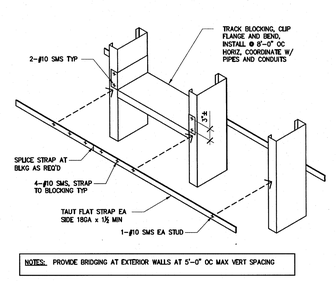
16 S9.1 TOP CONN. AT HSS COLUMNS AT ROOF

1"=1'-0"



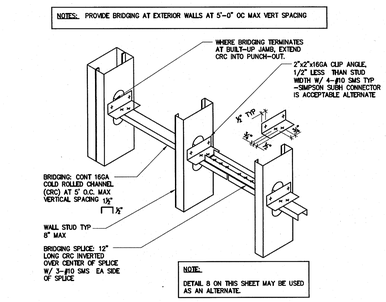
12 S9.1 STEEL STUD WALL BOTTOM TRACK CONNECTION

1"=1'-0"



8 S9.1 STEEL STUD WALL BRIDGING

1"=1'-0"



4 S9.1 STEEL STUD WALL BRIDGING

NTS

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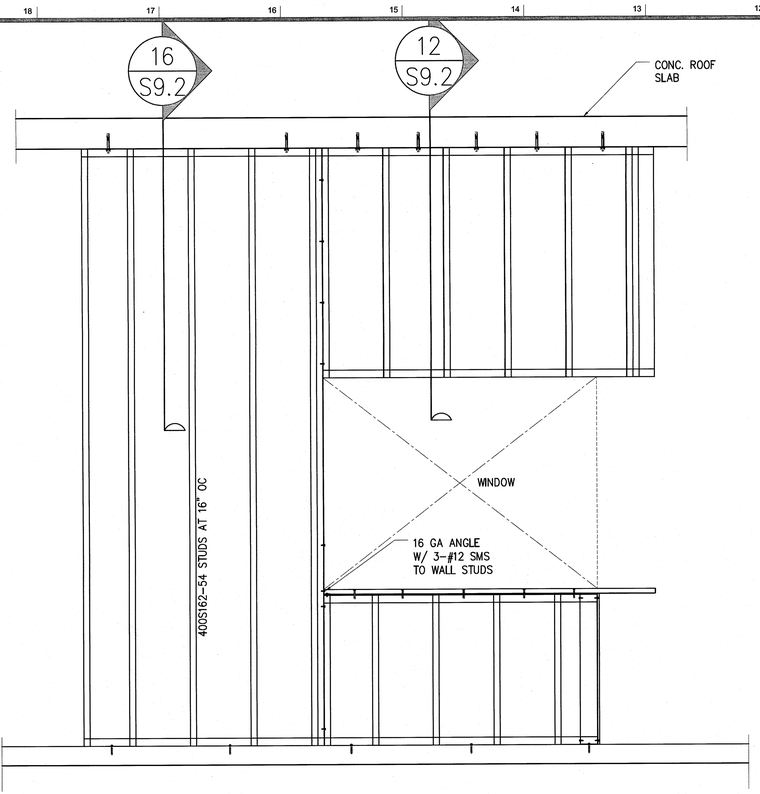
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SSS: VOID DATE: FEB 23 2017
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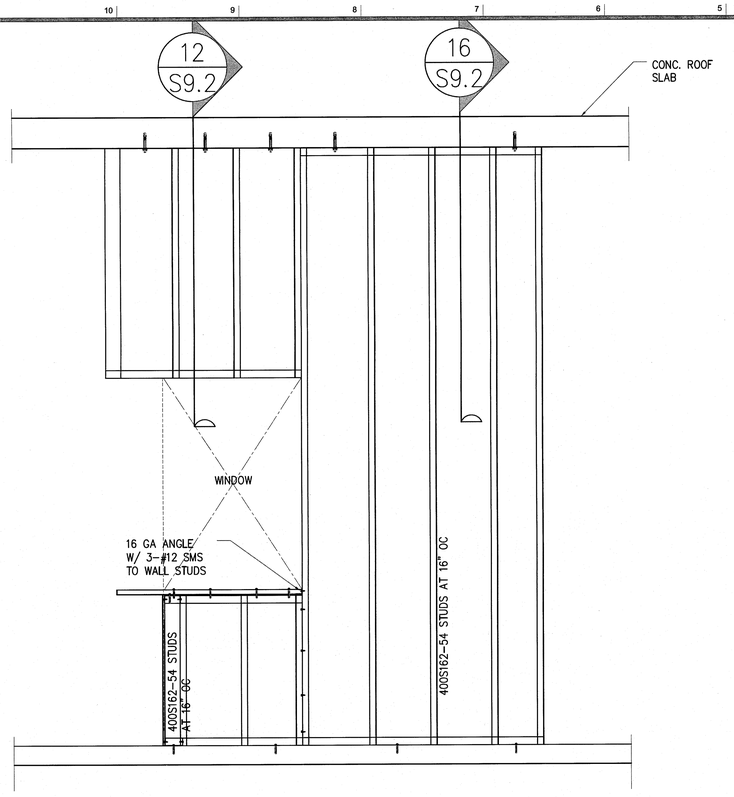
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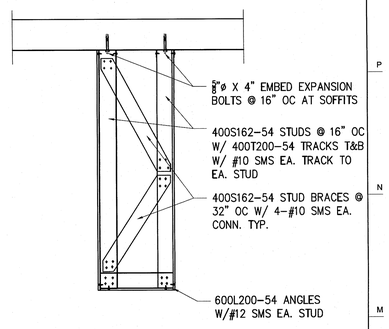
STEEL STUD DETAILS

S9.1

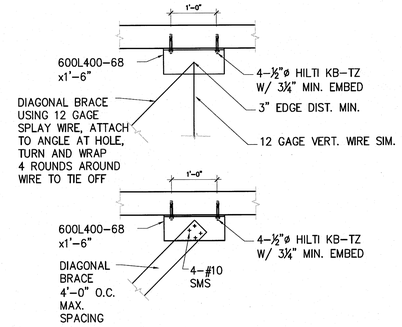
PERMIT BACKCHECK





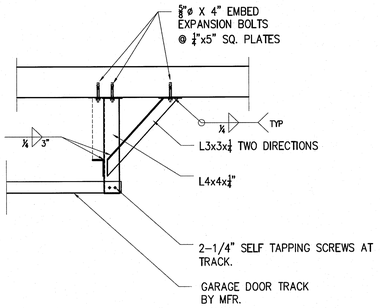


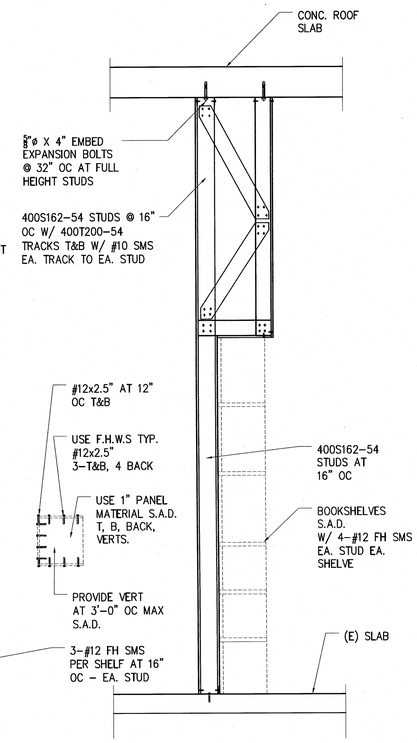
1 S9.2 TYPICAL SOFFIT NTS



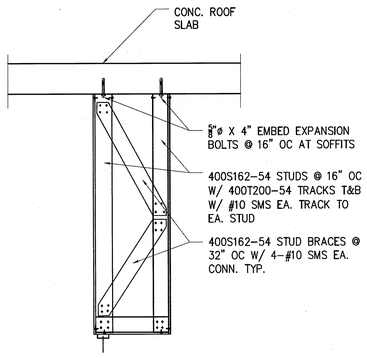
2 S9.2 BRACES CONN. AT CONC. ROOF SLAB NTS

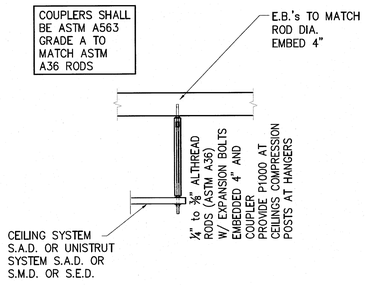
18 S9.2 ELEVATION AT BOOKSHELF WALL NTS



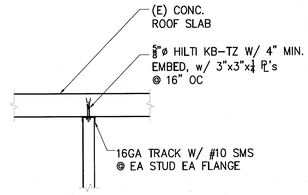


10 S9.2 ELEVATRION AT BOOKSHELF WALL NTS



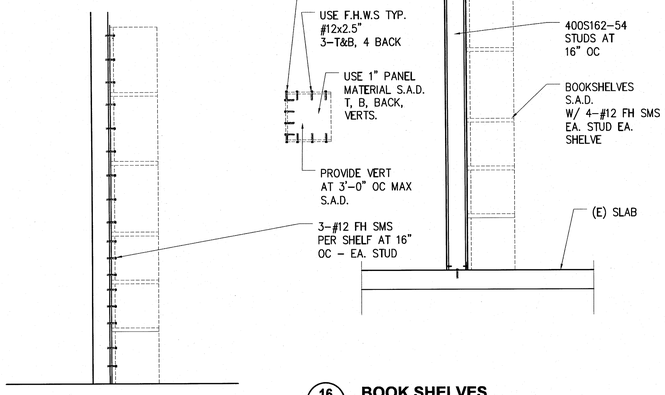


7 S9.2 HANGING ROD LOAD UNDER 200 LBS NTS

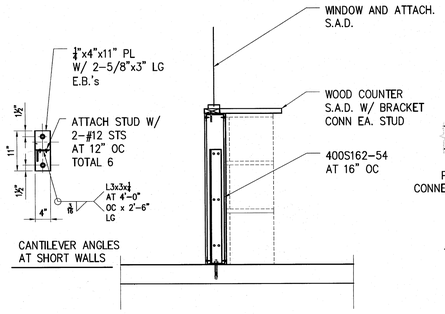


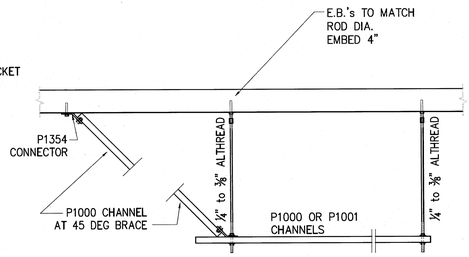
3 S9.2 HANGING SOFFITS NTS

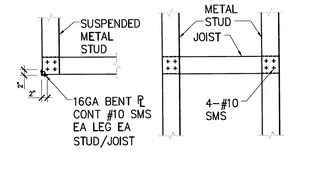
19 S9.2 GARAGE DOOR RAILS CONN. AT CONC. ROOF NTS



11 S9.2 SOFFIT ABOVE WINDOW NTS







16 S9.2 BOOK SHELVES NTS

12 S9.2 WALL AT WINDOW NTS

8 S9.2 HANGING UNISTRUT FRAME LOAD UNDER 200 LBS NTS

4 S9.2 STEEL STUD CEILING OR SOFIT CONNECTIONS NTS

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650.619.6031 fax

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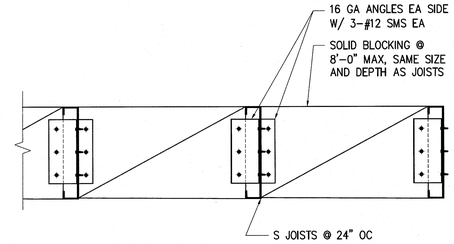
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: FLS:
SSS: WJO DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

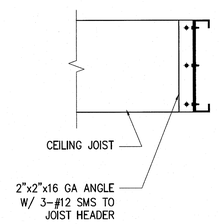
STEEL STUD DETAILS

S9.2

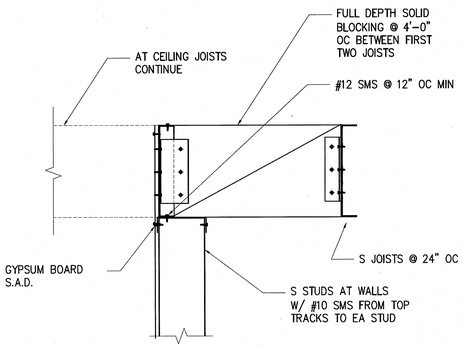
PERMIT BACKCHECK



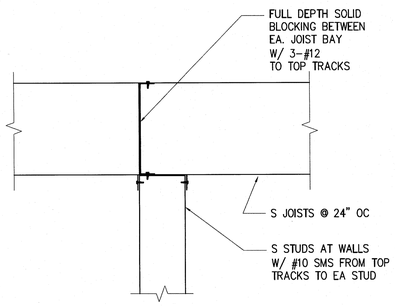
2 / S9.3 SOLID BLOCKING 1-1/2"=1'-0"



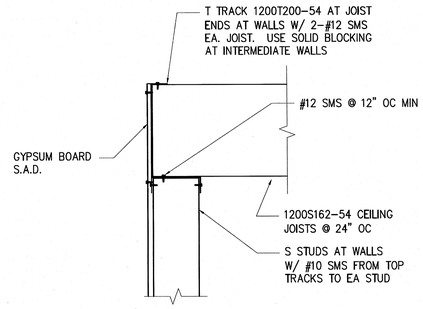
7 / S9.3 JOISTS FRAMING INTO JOISTS ONE SIDE 1-1/2"=1'-0"



3 / S9.3 SECTION AT JOISTS PARALLEL AT STUD WALLS 1-1/2"=1'-0"



8 / S9.3 SECTION AT JOISTS PERPENDICULAR OVER STUD WALLS 1-1/2"=1'-0"



4 / S9.3 SECTION AT JOISTS PERPENDICULAR AT STUD WALLS 1-1/2"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER STEPHEN R. [illegible] No. S03527 STRUCTURAL STATE OF CALIFORNIA

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BY: Date: 02.15.2017
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STEEL STUD DETAILS

S9.3

PERMIT BACKCHECK

SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

POWER DISTRIBUTION

- PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, FLUSH MOUNTED IN WALL.
- PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208V, FLUSH MOUNTED IN WALL.
- DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 3Ø,480-120/208V, UON.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:

A: 30A, NON-FUSED	AF: 30A, FUSED	Circuit
B: 60A, NON-FUSED	BF: 60A, FUSED	
C: 100A, NON-FUSED	CF: 100A, FUSED	
D: 200A, NON-FUSED	DF: 200A, FUSED	
E: 400A, NON-FUSED	EF: 400A, FUSED	↓
F: 600A, NON-FUSED	FF: 600A, FUSED	FTAG
G: 800A, NON-FUSED	GF: 800A, FUSED	

- MAGNETIC MOTOR STARTER. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- COMBINATION MAGNETIC MOTOR STARTER/SAFETY DISCONNECT SWITCH. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- PACKAGE MOTOR CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER DIVISION WITH EQUIPMENT CONTROLLED. PROVIDE SINGLE-POINT POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- VFD — VARIABLE FREQUENCY DRIVE FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- VFD — VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- TRANSFORMER.

WIRING DEVICES

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- J — JUNCTION BOX, MOUNTED FLUSH IN CEILING.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO STRUCTURE IN ACCESSIBLE CEILING SPACE.
- SINGLE-PLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DENOTES WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON.
- G — 'G' DENOTES GROUND FAULT CURRENT INTERRUPTER (GFCI), 'A' DENOTES ARC FAULT CURRENT INTERRUPTER (AFCI).
- SHADING DENOTES DEVICE SHALL BE A CONTROLLED RECEPTACLE TO COMPLY WITH T-24.
- SHADING DENOTES SPECIALTY DEVICE, TYPE AS NOTED ON PLANS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- COMBINATION POWER/TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- S — SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- S_3 — THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
- S_K — KEY-OPERATED, SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- S_T — MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD ELEMENT, MOUNTED ADJACENT TO MOTOR.
- S_F — SWITCH FURNISHED UNDER ANOTHER DIVISION, BUT INSTALLED AND WIRED UNDER THIS DIVISION, WALL MOUNTED, +42" UON.
- S_D — WALL BOX DIMMER SWITCH, +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED. PROVIDED FOR DE-RATING WHEN INSTALLED GANGED LOCATIONS.
- MH — LIGHTING CONTROL OCCUPANCY SENSOR WITH DUAL LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- MH — LIGHTING CONTROL OCCUPANCY SENSOR WITH SINGLE LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- M — ADDRESSABLE LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED FOR AREA COVERAGE.
- DIM — ADDRESSABLE SINGLE ZONE LIGHTING CONTROL STATION WITH DIMMING CAPABILITIES, WALL MOUNTED, +42" UON.
- 924 — UL924 RATED TRANSFER RELAY, 20A RATED.
- DS — DAYLIGHT SENSOR FOR INDOOR USE.
- MOTOR OPERATED FIRE/SMOKE DAMPER 'FSD', NIEC.
- SC — ADDRESSABLE PRESET SCENE CONTROL LIGHTING STATION WITH DIMMING CAPABILITIES, WALL MOUNTED, +42" UON.

AUDIO/VISUAL

- S — LOUDSPEAKER, WALL MOUNTED, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.
- S — LOUDSPEAKER, CEILING MOUNTED IN SURFACE BACK BOX. ADJACENT 70V OR 100V INDICATED DISTRIBUTED SAME VOLTAGE SPEAKER
- AVH — AUDIO AND VIDEO CABLE DISPLAY PLATE, WALL MOUNTED, 4 11/16" BOX WITH 1 1/4" CONDUIT TO ACCESSIBLE CEILING. HEIGHT AS NOTED
- AV — AUDIO AND VIDEO CABLE AT PROJECTOR THROUGH SUPPORT, DIRECT CONNECT TO PROJECTOR
- TD — FLAT PANEL DISPLAY, WALL MOUNTED AT 60" AFF OR AS NOTED
- SD — SIGNAGE DISPLAY, WALL MOUNTED AT 84" AFF OR AS NOTED
- PRJ — PROJECTOR WITH PROJECTOR MOUNT, 1.5"-2" NPT COLUMN AND CEILING SUPPORT HARDWARE
- PROJECTION SCREEN, SIZE AND TYPE AS NOTED
- PS — PROJECTION SCREEN 3 WAY POWER SWITCH, WALL MOUNTED, +42" UON.
- INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.
- COMBINATION LOUDSPEAKER/INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED IN COMBINATION BACK BOX, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.

LIGHTING

- LIGHT FIXTURE, RECESSED IN CEILING.
- LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- LIGHT FIXTURE, WALL MOUNTED.
- STRIP LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- DOWNLIGHT FIXTURE, RECESSED IN CEILING.
- DOWNLIGHT/INDUSTRIAL FIXTURE, SURFACE OR PENDANT MOUNTED.
- SCONCE LIGHT FIXTURE, WALL MOUNTED.
- EXIT SIGN LIGHT FIXTURE, CEILING OR WALL MOUNTED WITH DIRECTIONAL ARROWS AS NOTED ON PLANS, WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S).
- EMERGENCY SELF-POWERED BATTERY PACK WITH LIGHT FIXTURE HEADS AS NOTED IN FIXTURE SCHEDULE.
- HALF SHADING OF ANY FIXTURE INDICATES LIFE SAFETY/EGRESS LIGHTING.
- STEPLIGHT FIXTURE, WALL MOUNTED.
- AREA LIGHT FIXTURE, SURFACE OR RECESSED MOUNTED TO WALL.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET.
- FLEXIBLE METALLIC CONDUIT.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
- CABLE TRAY, CABLE RUNWAY OR LADDER RACK SUSPENDED FROM STRUCTURE ABOVE. REFER TO PLANS FOR SIZE AND MOUNTING.

CONVENTIONS

- 1 — NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- 2004 — FEEDER SIZE. REFER TO FEEDER SCHEDULE.
- DETAIL REFERENCE: A / E0.00 — SHEET NUMBER; DETAIL DESIGNATION
- 2-F3 — FIXTURE IDENTIFICATION TAG: FIXTURE TYPE; QUANTITY

FIRE ALARM

- SMOKE DETECTOR INITIATING DEVICE, CEILING MOUNTED ON FLUSH OR SURFACE JUNCTION BOX.
- SMOKE DETECTOR INITIATING DEVICE, IN-DUCT MOUNTED TYPE AT, DUCTED FSD'S.
- HEAT DETECTOR INITIATING DEVICE, CEILING MOUNTED ON FLUSH OR SURFACE JUNCTION BOX.
- F — MANUAL PULL STATION INITIATING DEVICE, WALL MOUNTED AT +48" UON.
- MOTOR OPERATED FIRE/SMOKE DAMPER 'FSD', NIEC. SYMBOL DENOTES INTERFACE FOR POWER, CONTROL AND POSSIBLY MONITORING CONNECTIONS FROM FIRE ALARM SYSTEM. ALSO, INCLUDES LOCAL POWER DISCONNECT MEANS. 'ES' BY FSD INDICATES END SWITCH CONNECTIONS FOR MONITORING BOTH 'OPEN' AND 'CLOSED' POSITIONS. ADJACENT NUMBER INDICATES QUANTITY OF ACTUATORS AND END SWITCH GROUPS REQUIRING CONNECTION PER FSD, IF MORE THAN 1. SYMBOL ALSO INCLUDES PROGRAMMABLE CONTROL RELAY AND DUAL INPUT MONITORING MODULE, IF FURNISHED WITH END SWITCHES.
- SM — REMOTE MOUNTED SINGLE INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- DM — REMOTE MOUNTED DUAL INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- CR — REMOTE MOUNTED PROGRAMMABLE ADDRESSABLE CONTROL RELAY MODULE FOR INITIATING CIRCUIT CONNECTION.
- EOL — END-OF-LINE RESISTOR.
- AUDIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER.
- VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX.
- VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.

SECURITY

- A — ALARM MONITORING CONTACT, MOUNTED AS NOTED ON PLANS.
- EL — ELECTRIC MORTISE DOOR LOCK, NIEC, BUT WIRED UNDER THIS DIVISION.
- ES — ELECTRIC DOOR STRIKE, NIEC, BUT WIRED UNDER THIS DIVISION.
- RX — REQUEST-TO-EXIT SWITCH, NIEC, FURNISH WITH DOOR HARDWARE AND WIRED UNDER THIS DIVISION.
- M — AREA MOTION SENSOR, CEILING MOUNTED, UON.
- M — AREA MOTION SENSOR, WALL MOUNTED, +84" UON.
- CR — CARD READER CONTROLLER, WALL MOUNTED, +36" UON.
- K — KEY PAD CONTROLLER, WALL MOUNTED, +42" UON.
- PS — REMOTE MOUNTED POWER SUPPLY FOR LOW-VOLTAGE EQUIPMENT CONNECTIONS.
- FIXED POSITION CCTV CAMERA, MOUNTED AS NOTED ON PLANS.
- PAN/TILT/ZOOM (PTZ) CCTV CAMERA, MOUNTED AS NOTED ON PLANS.
- GB — GLASS BREAK STATION , WALL MOUNTED.

TELECOMMUNICATION

- TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON.
- TELECOMMUNICATION DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH, UON.
- COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FLUSH FLOOR BOX, TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- WAP — WIRELESS ACCESS POINT, CEILING MOUNTED.

EQUIPMENT ANCHORAGE NOTES

ELECTRICAL COMPONENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1615A 1.12 THROUGH 1.22 AND ASCE 7-10 CHAPTER 6 AND 13.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRED DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1615A 1.20, 1615A 1.21, AND 1615A 1.22.

THE BRACING ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THE SHALL COMPLY WITH ONE OF THE PRE-APPROVALS (OPA#) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ABBREVIATIONS

A	AMPERES	MCB	MAIN CIRCUIT BREAKER
AFC	ABOVE FINISHED CEILING	MLO	MAIN LUGS ONLY
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MT	EMPTY
		MTC	EMPTY CONDUIT
		(N)	NEW
AFF	ABOVE FINISHED FLOOR	NF	NON-FUSED
AIC	ASYMMETRIC INTERRUPTING CURRENT	NIEC	NOT IN ELECTRICAL CONTRACT
BAS	BUILDING AUTOMATION SYSTEM	NTS	NOT TO SCALE
C	CONDUIT	PNL	PANEL
CKT	CIRCUIT	PDZ	PRIMARY DAYLIGHT ZONE
CU	COPPER	PVC	POLYVINYL CHLORIDE
(E)	EXISTING TO REMAIN	(R)	EXISTING TO BE REMOVED
EF	EXHAUST FAN	TX	TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING	TYP	TYPICAL
(ER)	EXISTING RELOCATED	UON	UNLESS OTHERWISE NOTED
F	FUSED	V	VOLTS
(F)	FUTURE	VA	VOLTS-AMPS
FACP	FIRE ALARM CONTROL PANEL	VFD	VARIABLE FREQUENCY DRIVE
FLA	FULL LOAD AMPERES	W	WATTS
FSD	FIRE/SMOKE DAMPER	WP	WEATHERPROOF
G	GROUND	1Ø	1 PHASE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	3Ø	3 PHASE
GND	GROUND	1P	1 POLE
HVAC	HEATING,VENTING AND AIR CONDITIONING	2P	2 POLE
		3P	3 POLE
JB	JUNCTION BOX	3W	3 WIRE
LCP	LIGHTING CONTROL PANEL	4W	4 WIRE

GENERAL NOTES

1. INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.
2. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
3. REFER TO ELECTRICAL DRAWINGS FOR THE LIGHTING FIXTURE SCHEDULE.
4. DO NOT INSTALL TELECOMMUNICATION POWER OUTLETS BACK TO BACK IN STUD WALLS.
5. REFER TO ELECTRICAL POWER ONE LINE DIAGRAM FOR MAJOR POWER COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM.
6. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
7. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDER- WRITERS LABORATORIES AND BEAR THEIR LABEL.
8. CONTRACTOR SHALL REMOVE ALL LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM HIS WORK.
9. CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEM.
10. PROVIDE INDIVIDUAL GFCI RECEPTACLES AT EACH LOCATION SHOWN. DO NOT USE FEED-THRU GFCI TYPE RECEPTACLES. LOCATE RECEPTACLE AT END OF A BRANCH CIRCUIT WIRE.
11. CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.
12. ALL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED TO MAINTAIN THE FIRE SEPARATION RATING.
13. INSTALL A POLYETHYLENE PULLING ROPE IN ALL EMPTY CONDUITS.
14. COORDINATE LOCATIONS OF SITE PULLBOXES WITH ARCHITECT PRIOR TO INSTALLATION.

DRAWING INDEX

DWG. No.	DRAWING TITLE	ISSUE TITLE	SCHEMATIC DESIGN SET	50% DESIGN DEVELOPMENT SET	100% DESIGN DEVELOPMENT SET	50% CONSTRUCTION DOCUMENTS SET	100% CONSTRUCTION DOCUMENTS SET	PERMIT BACKCHECK
		DATE	04-22-16	05-27-16	06-24-16	08-01-16	09-12-16	02-15-17
E001	SYMBOLS LIST, GENERAL NOTES AND DRAWING INDEX		●	●	●	●	●	●
E002	LIGHTING SCHEDULES			●	●	●	●	●
E003	PANEL SCHEDULES		●	●	●	●	●	●
E004	FIRE ALARM SCHEDULES AND CALCULATIONS					●	●	●
E005	TITLE 24						●	●
E006	TITLE 24						●	●
E007	TITLE 24						●	●
E101	SITE ELECTRICAL PLAN		●	●	●	●	●	●
E201	LIGHTING PLAN			●	●	●	●	●
E301	POWER AND SIGNAL PLAN		●	●	●	●	●	●
E401	FIRE ALARM PLAN			●	●	●	●	●
E501	ELECTRICAL ROOF PLAN			●	●	●	●	●
E601	ELECTRICAL ROOM LAYOUTS		●	●	●	●	●	●
E701	POWER ONE-LINE DIAGRAM AND FIRE ALARM RISER DIAGRAM		●	●	●	●	●	●
E702	LOW VOLTAGE RISER DIAGRAMS					●	●	●
E801	ELECTRICAL DETAILS		●	●	●	●	●	●
E802	ELECTRICAL DETAILS					●	●	●
E803	ELECTRICAL DETAILS					●	●	●
E804	ELECTRICAL DETAILS					●	●	●
E805	FIRE ALARM DETAILS					●	●	●

ISSUE KEY:

● ISSUED AS PART OF A SET

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REGISTERED PROFESSIONAL ENGINEER — KRISTINA MARTIN — No. E15303 — Exp. 03/31/19 — ELECTRICAL — STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE # : 43-H10
AC: — FLS:
SSS: — DATE: FEB 23 2017
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Project No 1115-0130
Date: February 15, 2017
Sheet:

SYMBOLS LIST, GENERAL NOTES AND DRAWING INDEX

E001

PERMIT BACKCHECK

MT PLEASANT HIGH SCHOOL
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & CATALOG NUMBER	LIGHT SOURCE QTY/TYPE	BALLAST/ DRIVER	WATTS	VOLTAGE	DESCRIPTION	WEIGHT	INSTALLATION DETAIL
F1	LITHONIA 2BLT4-68L-ADP-MVOLT-EZ1-LP835 METALUX 24CZLD4-50-UNV-L835-CD-1 HE WILLIAMS LT-2-4-L(CUSTOM)/835-AF CREE ZR24-50L-35K-10V-FD OR APPROVED EQUAL	LED ~5000 LUMEN 3500K 80+ CRI MIN 50,000 HR L80	0-10V DIMMING LED DRIVER	45	277	2'X4' ARCHITECTURAL HIGH EFFICIENCY RECESSED LED TROFFER, STEEL HOUSING WITH WHITE POWDER COAT FINISH AND HIGHLY EFFICIENT SATIN WHITE LENS.	27 LBS	A/E803
F2	PHILIPS FLUXSTREAM LF-4-FR-39-35-U-DZT (SVCC60-UNV) OR CREE LS4-40L-35K-10V (AC5-12/3-48-Q14B-JB) OR APPROVED EQUAL	LED ~4000 LUMEN 3500K 80+ CRI MIN 100,000 HR L70	0-10V LED DRIVER	33	277	NOMINAL 4' LONG SURFACE MOUNTED COMPACT LINEAR LED FIXTURE, WITH STEEL HOUSING WITH WHITE PAINTED FINISH, AND RUGGED FROSTED CONTOURED ACRYLIC LENS. PROVIDE AC CABLE SUSPENSION KIT (PART # IN PARENTHESIS) AND INSTALL FIXTURE AT +10'-0" A.F.F. WHERE CEILING IS OPEN TO STRUCTURE.	6 LBS	D/E803
F2A	PHILIPS FLUXSTREAM LF-4-FR-39-35-U-DZT-EMLED (SVCC60-UNV) OR CREE LS4-40L-35K-10V-EB14 (AC5-12/3-48-Q14B-JB) OR APPROVED EQUAL	LED ~4000 LUMEN 3500K 80+ CRI MIN 100,000 HR L70	0-10V LED DRIVER	33	277	SAME AS FIXTURE TYPE F2, WITH EMERGENCY BATTERY PACK.	7 LBS	D/E803
F3	JUNO IC91LEDG4-35K-U-4103FROST-SC-EM OR APPROVED EQUAL	LED 900 LUMENS 3500K 80 CRI MIN 50,000 HR L80	0-10V LED DRIVER	15.6	277	RECESSED LED DOWNLIGHT, NOMINAL 4" APERTURE, WITH REPLACEABLE LIGHT ENGINE, HIGH PERFORMANCE REFLECTOR, AND BEVELED TRIM WITH SATIN CHROM FINISH AND FROSTED GLASS CYLINDRICAL DIFFUSER. PROVIDE FIXTURE WITH EMERGENCY BATTERY PACK.	9 LBS	B/E803
F4	ALGIERS LED VANITY ALV SERIES ALV25052000L30SND2 OR APPROVED EQUAL	LED 2000 LUMENS 3000K	LED DRIVER	20	277	SURFACE MOUNTED 5"H x 25.25"L x 4" D VANITY LED LIGHT FIXTURE WITH STEEL HOUSING, WHITE BACK PLATE AND ACRYLIC WHITE LINEN DIFFUSER. SATIN NICKEL PLATED END CAPS.	6 LBS	C/E803
F5	LUMENWERX CAVA SQUARE LED CAVSPDI-CO-RLO-LED-80-750-750-35-8'-277-D-1-53WAC36-W OR APPROVED EQUAL	LED 3000 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	116	277	NOMINAL 8' LONG PENDANT MOUNTED LINEAR DIRECT/INDIRECT LED FIXTURE. PROVIDE AC CABLE SUSPENSION KIT. INSTALL FIXTURE AT +10'-0" A.F.F.	14.1/4' LBS	E, F, G, H, I/ E803
F5A	LUMENWERX CAVA SQUARE LED CAVSPDI-CO-RLO-LED-80-750-750-35-4'-277-D-1-53WAC36-W OR APPROVED EQUAL	LED 3000 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	58	277	SAME AS FIXTURE TYPE F5 EXCEPT NOMINAL 4' LONG.	14.1 LBS	E, F, G, H, I/ E803
F5B	LUMENWERX CAVA SQUARE LED CAVSPDI-CO-RLO-LED-80-750-750-35-4'-277-D-1+#EB-53WAC36-W OR APPROVED EQUAL	LED 3000 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	58	277	SAME AS FIXTURE TYPE F5A EXCEPT WITH EMERGENCY BATTERY PACK.	15.1 LBS	E, F, G, H, I/ E803
F6	PRIMA LIGHTING CONTOR I E5-358 WHITE OR APPROVED EQUAL	LED 700 LUMENS 3500K 82+ CRI	0-10V LED DRIVER	12	277	DECORATIVE PENDANT MOUNTED LED DOWNLIGHT WITH 10" ACRYLIC TUBE, 120 DEGREE BEAM SPREAD, BOTTOM CAP LENS AND MONOPOINT CANOPY WITH DIMMABLE 277 VOLT BALLAST.	4 LBS	H, I/E803
F7	EATON PORTFOLIO SERIES LD4A13D010TE ERM4A 13 8035 4LM0-L1 OR APPROVED EQUAL	LED 1300 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	22.4	277	RECESSED LED DOWNLIGHT, NOMINAL 4" APERTURE, WITH TWO-STAGE MEDIUM BEAM REFLECTOR SYSTEM, WHITE POLYMER TRIM RING, SPECULAR CLEAR FINISH AND GLASS DIFFUSER.	10 LBS	B/E803
F7A	EATON PORTFOLIO SERIES LD4A13D010TE IEMBOD ERM4A 13 8035 4LM0-L1 OR APPROVED EQUAL	LED 1300 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	22.4	277	SAME AS FIXTURE TYPE F7 EXCEPT WITH EMERGENCY BATTERY PACK.	11 LBS	B/E803
F8	LUMENWERX VIA 3 LED SERIES VIA3WD-HLO-LED-80-750-35-3'-277-D-1-DMB-W OR APPROVED EQUAL	LED 1500 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	22.5	277	NOMINAL 3' LONG SINGLE CIRCUIT WALL MOUNTED DIRECT LED LINEAR LIGHT FIXTURE WITH MATTE WHITE FINISH ALUMINUM HOUSING AND END CAPS, DRYWALL MOUNTING BRACKET AND HIGH-EFFICIENCY THICK ACRYLIC DIFFUSER.	8.34 LBS	C/E803
F9	LUMENWERX QUAD WIDE SERIES QUAWS-HLO-LED-80-1000-35-8'-277-D-1-DRC-W OR APPROVED EQUAL	LED 4000 LUMENS 3500K 80+ CRI	0-10V LED DRIVER	76	277	NOMINAL 8' LONG SURFACE MOUNTED LED LINEAR LIGHT FIXTURE WITH NARROW LOW PROFILE MATTE WHITE FINISH ALUMINUM HOUSING AND HIGH-EFFICIENCY THICK ACRYLIC DIFFUSER.	18.7 LBS	D/E803
F10	SURE-LITES LEMRO OR APPROVED EQUAL	LED	NA	N/A	277	LOW PROFILE, TWO HEAD EMERGENCY FIXTURE, WHITE TEXTURED FINISH, WITH SEALED NICKEL CADMIUM BATTERY PROVIDING MIN. 90 MINUTES OF EMERGENY ILLUMINAION.	5 LBS	C/E803
F11	SURE-LITES EU-R-60-G OR APPROVED EQUAL	LED	NA	4	277	UNIVERSAL ARCHITECTURAL EDGE LIT EXIT SIGN, WITH BRUSHED ALUMINUM HOUSING, GREEN LETTERS ON CLEAR PANEL AND BATTERY PACK PROVIDING 90 MINUTES OF EMERGENCY LIGHTING. DIRECTIONAL CHEVRONS AND MOUNTING TYPE AS INDICATED ON PLANS.	4 LBS	C/E803
F12	MCGRAW EDISON ISC-E01-LED-E1-BL3-BZ OR APPROVED EQUAL	LED	LED DRIVER	25	277	WALL MOUNTED EXTERIOR LED WALLPACK LIGHT FIXTURE WITH CYLINDER SHAPED HEAVY DUTY BRONZE FINISH ALUMINUM HOUSING AND HIGH EFFICIENCY OPTICS. UL LISTED FOR WET LOCATIONS.	18 LBS	C/E803
F13	WAC LIGHTING LEDme STEP LIGHT SERIES WL-LED100F-C-BBR	LED 32 LUMENS 3000K 85 CRI	LED DRIVER	4	277	HORIZONTAL LED STEP LIGHT FIXTURE WITH DIE-CAST ALUMINUM HOUSING, WHITE LIGHT COLOR AND BRONZE ON BRASS FINISH.	3 LBS	SEE ARCH PLANS

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LIGHTING SCHEDULE

E002

PERMIT BACKCHECK

PROJECT: **MT PLEASANT HS** — EXISTING

LOCATION: **BLDG 900 ELECT RM**

PANEL - JL

LOAD SERVED	LOAD (KVA) LTG.	RECP.	OTHER	C. B. AMP	POLE	A	B	C		C. B. AMP	POLE	LOAD (KVA) LTG.	RECP.	OTHER	LOAD SERVED
SPARE				20	1	1	*		2	20	1			0.7	(N) FIRE ALARM CNTRL PNL
SPARE				20	1	3		*	4	20	1			0.4	(N) INTRUSION ALARM PNL
NORTH GARAGE DOOR			1.2	20	1	5	*		6	20	1				SPARE
SOUTH GARAGE DOOR			1.2	20	1	7		*	8	15	2			1.3	SCU-2 OUTDOOR UNIT
[1] SAC-1, SAC-2 INDOOR UNITS			0.2	20	2	9	*				---			1.3	
			0.2		---			*	12	20	1			0.2	TWH-1 WATER HEATER
ROOF REF-1, REF-2			0.4	20	1	13	*		14	20	1				SPARE
[1] SCU-1 OUTDOOR UNIT			1.3	15	2	15		*	16	30	2				SPARE
			1.3		---		*				---				
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
TOTALS ——>			5.8											3.9	<—— TOTALS

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VOLTAGE:	**120/208V, 3Ø, 4W**	CONNECT LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		PHASE BALANCE	A	B	C
S.C.A.:	**10,000 AIC RMS SYM.**	X	100% OF LOAD	=	<—— LIGHTING	KVA	4	3	3
MOUNTING:	**SURFACE**	X	NEC 220-13	=	<—— RECEPTACLES	%	37%	33%	30%
BUS SIZE:	**100 AMP BUSING**	10 X	1.00	=	10 <—— OTHER	AMP	30	27	24
MAINS:	**100 AMP MAIN BRKR.**	10 KVA	27 Amps		10 KVA 27 AMPS				
		12 KVA <—— 80% Rated Breaker ——>			12 KVA 34 AMPS				

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

panel13.xls 05/12/98

ADDITIONAL FEATURES:

DATE ISSUED:
DATE PRINTED: 02/15/17

PROJECT: **MT PLEASANT HS** — EXISTING

LOCATION: **BLDG 900 ELECT RM**

PANEL - JH

LOAD SERVED	LOAD (KVA) LTG.	RECP.	OTHER	C. B. AMP	POLE	A	B	C		C. B. AMP	POLE	LOAD (KVA) LTG.	RECP.	OTHER	LOAD SERVED
INTERIOR LIGHTING				15	1	1	*		2	15	1				SPARE
INTERIOR LIGHTING				15	1	3		*	4	15	1				SPARE
INTERIOR LIGHTING				15	1	5	*		6	15	1				SPARE
EXTERIOR LIGHTING				15	1	7		*	8	15	1				SPARE
SPARE				15	1	9	*		10	15	1				SPARE
SPARE				15	1	11		*	12	15	1				SPARE
			3.6		---		*				---				
(N) AC-1			3.6	20	3	15	*		16	50	3				(E) TRANSFORMER 30KVA
			3.6		---			*			---				
[1]			4.4		---		*				---			4.2	
(N) AC-2			4.4	20	3	21		*	22	20	3			4.2	(N) AC-4
			4.4		---		*				---			4.2	
			4.2		---			*			---			4.2	
(N) AC-3			4.2	20	3	27	*		28	20	3			4.2	(N) AC-5 [1]
			4.2		---			*			---			4.2	
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
TOTALS ——>			36.6											25.2	<—— TOTALS

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VOLTAGE:	**277/480V, 3Ø, 4W**	CONNECT LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		PHASE BALANCE	A	B	C
S.C.A.:	**14,000 AIC RMS SYM.**	X	100% OF LOAD	=	<—— LIGHTING	KVA	21	21	21
MOUNTING:	**SURFACE**	X	NEC 220-13	=	<—— RECEPTACLES	%	33%	33%	33%
BUS SIZE:	**225 AMP BUSING**	62 X	1.00	=	62 <—— OTHER	AMP	74	74	74
MAINS:	**225 AMP MAIN BRKR.**	62 KVA	74 Amps		62 KVA 74 AMPS				
		77 KVA <—— 80% Rated Breaker ——>			77 KVA 93 AMPS				

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

panel13.xls 05/12/98

ADDITIONAL FEATURES:

DATE ISSUED:
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PROJECT: **MT PLEASANT HS** — EXISTING

LOCATION: **BLDG 900 ELECT RM**

PANEL - JL1

LOAD SERVED	LOAD (KVA) LTG.	RECP.	OTHER	C. B. AMP	POLE	A	B	C		C. B. AMP	POLE	LOAD (KVA) LTG.	RECP.	OTHER	LOAD SERVED
RECEPTS		0.9		20	1	1	*		2	20	1		0.7		(E) FLR BOX RECEPTS
RECEPTS		1.1		20	1	3		*	4	20	1		0.9		(E) FLR BOX RECEPTS
OFFICE CNTRL RECEPTS		1.1		20	1	5	*		6	20	1		0.2	0.7	WATER COOLER, RECEPT
RECEPTS		1.1		20	1	7		*	8	20	1		0.4		IDF RM QUAD RECEPT
RECEPTS		1.1		20	1	9	*		10	20	1		0.4		IDF RM QUAD RECEPT
OFFICE CNTRL RECEPTS		0.7		20	1	11		*	12	20	1		0.4		IDF RM QUAD RECEPT
RECEPTS		1.1		20	1	13	*		14	20	1		0.4		IDF RM QUAD RECEPT
RECEPTS		1.1		20	1	15		*	16	20	1		0.2		IDF RM QUAD RECEPT
OFFICE CNTRL RECEPTS		0.7		20	1	17	*		18	20	1		0.2		IDF RM QUAD RECEPT
RECEPTS		1.1		20	1	19		*	20	20	1		0.2		IDF RM QUAD RECEPT
RECEPTS		1.1		20	1	21	*		22	20	1		0.2		IDF RM QUAD RECEPT
OFFICE CNTRL RECEPTS		0.4		20	1	23		*	24	20	1				SPARE
RECEPTS		1.1		20	1	25	*		26	20	1				SPARE
CAFÉ DED RECEPT		0.2		20	1	27		*	28	20	1				SPARE
CAFÉ DED RECEPT		0.2		20	1	29	*		30	20	1				SPARE
CAFÉ REFRIG		0.9		20	1	31		*	32	20	1				SPARE
COPIER/PRINTER		1.1		20	1	33	*		34	20	1				SPARE
COPIER/PRINTER		1.1		20	1	35		*	36	20	1				SPARE
					---		*		38	20	1				SPARE
(E) PANEL JL SUB FEED				40	3	39		*	40	20	1				SPARE
					---			*	42	20	1				SPARE
TOTALS ——>		15.8											4.0	0.7	<—— TOTALS

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VOLTAGE:	**120/208V, 3Ø, 4W**	CONNECT LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		PHASE BALANCE	A	B	C
S.C.A.:	**10,000 AIC RMS SYM.**	X	100% OF LOAD	=	<—— LIGHTING	KVA	8	7	6
MOUNTING:	**SURFACE**	20 X	NEC 220-13	=	15 <—— RECEPTACLES	%	38%	35%	27%
BUS SIZE:	**100 AMP BUSING**	1 X	1.00	=	1 <—— OTHER	AMP	65	60	46
MAINS:	**100 AMP MAIN BRKR.**	21 KVA	57 Amps		16 KVA 43 AMPS				
		26 KVA <—— 80% Rated Breaker ——>			20 KVA 54 AMPS				

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

panel13.xls 05/12/98

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NUMBERED SHEET NOTES

[1] EXISTING CIRCUIT BREAKER(S) TO BE REMOVED AND REPLACED WITH NEW COMPATIBLE CIRCUIT BREAKER. NEW BREAKER MANUFACTURER MODEL, STYLE AND AIC RATING SHALL MATCH EXISTING.

GENERAL SHEET NOTES

1. ALL CIRCUIT BREAKERS SHOWN WITHIN EXISTING BRANCH CIRCUIT PANELBOARDS ARE EXISTING TO REMAIN AND OR REUSED, U.O.N.

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PANEL SCHEDULES

E003

PERMIT BACKCHECK

FACP-EVS Calculations

Fire Alarm Control Panel — Location: Building F

Signaling Line Circuit Loading		DEVICE		SUBTOTAL	
Qty	Device	Super.	Alarm	Super.	Alarm
1	FCI E3 SERIES FACP	320.00	1,912.00	320.00	1,912.00
25	PHOTOELECTRIC SMOKE DETECTOR*	0.30	6.50	7.50	162.50
8	HEAT DETECTOR*	0.30	6.50	2.40	52.00
2	MANUAL PULL STATION	0.30	3.00	0.60	6.00
	MONITORING MODULE	0.30	6.50		
	RELAY MODULE	0.25	6.50		
1	HPFF BP-1	2.00		2.00	
				Signaling Line Circuit Load:	332.50	2,132.50
				Spare/Future Capacity - 20%:	0.20	426.50

Notification Circuit Loading								
DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4		TOTAL
							Notification Appliance Circuit Loading:	

Notification Circuit Voltage Drop					
CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD

Battery Calculation	Super.	Alarm
Totals Panel Current (mA):	332.50	2559.00
Total Panel Current (Amps):	0.33	2.56
Hours in Standby:	24	
Standby Amp Hours:	7.98	
Minutes in Alarm:		30
Total Alarm Amp Hours:		1.28
Minumum Battery Capacity Required:		9.26 AH

Provide a 12AH battery

Panel Loading	
Panel Capacity (Amps):	
Panel Load (Amps):	

■ Available Capacity

ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

BP-1 Calculations

Power Supply: HPFF8 — Location: Bldg. 900 ELECT RM

Notification Circuit Loading									
DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC	NAC	NAC	NAC	TOTAL
SPEAKER STROBE	15	71.00	7	8					1,065.00
SPEAKER STROBE	30	96.00	1						96.00
SPEAKER STROBE	75	153.00	1	1					306.00
SPEAKER STROBE	110	195.00		2					390.00
STROBE	15	71.00							
STROBE	30	96.00							
STROBE	75	152.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			746.00	1,111.00					1,857.00
Spare/Future Capacity - 20%:			0.20						371.40

Notification Circuit Voltage Drop					
CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.75	387	#12	3.77%	0.91
NAC2	1.11	510	#12	7.81%	1.87
NAC					
NAC					
NAC					
NAC					

Battery Calculation	Super.	Alarm
Totals Panel Current (mA):		2228.40
Total Panel Current (Amps):		2.23
Hours in Standby:	24	
Standby Amp Hours:		
Minutes in Alarm:		30
Total Alarm Amp Hours:		1.11
Minumum Battery Capacity Required:		1.11 AH

Provide a minimum 3 AH capacity battery

Panel Loading	
Panel Capacity (Amps):	6.00
Panel Load (Amps):	2.23



■ Available Capacity

ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

AMP 1 — AMP-50 Voice Amp

Secondary Power Source Requirements

Device Type	Standby Current (amps) Qty	Current Draw	Total	Secondary Alarm Current (amps) Qty	Current Draw	Total
1. System						
50W AMP	1 X	0.0500 =	0.0500	0 X	=	
	0 X	=		0 X	=	
	0 X	=		0 X	=	
2. Speakers						
Enter Number of Watts @ 25Vrms	0 X	0.0000 =		0 X	=	
Enter Number of Watts @ 70.7Vrms	22.5 X	0.0000 =	0.0000	23 X	0.0450 =	1.0125
		Total Standby Load	0.0500		Total Alarm Load	1.0125

50W Voice Amp Battery Calculation

Calculation in Total Sheet

			Required Standby Time in Hours		
			24 Hours		
Standby Load Current (Amps)	0.0500 Amps	X	24	=	1.200 AH
			Required Alarm Time in Hours		
			15 Minutes		
Alarm Load Current (Amps)	1.0126 Amps	X	0.25	=	0.253 AH
			Total Current Load		1.45 AH
	*Multiply by the Derating Factor		1.2	=	x 1.20
			Total Ampere Hours Required		1.74 AH

Recommended Batteries:	7AH BATTERIES

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

FIRE ALARM GENERAL NOTES

1. THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL BE MADE IN COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
   A. NFPA 70 NATIONAL ELECTRICAL CODE; 2013 EDITION AND 2013 CALIFORNIA AMENDMENT.
   B. NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES"); 2013 EDITION.
   C. BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.; 2013 EDITION.
   D. CALIFORNIA BUILDING CODE (CBC), PART 3, TITLE 24 C.C.R.; 2013 EDITION.
   E. CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; 2013 EDITION.
   F. CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; 2013 EDITION.
   G. CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; 2013 EDITION.
   H. CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.; 2013 EDITION.
   I. CALIFORNIA BUILDING CODE (CBC) CHAPTER 35 AND CALIFORNIA FIRE CODE (CFC)
   J. CFC CHAPTER 80; 2013 EDITIONS.
   K. CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.; 2013 EDITION.
   L. CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.; 2013 EDITION.
   M. TITLE 19 C.C.R., PUBLIC SAFETY. STATE FIRE MARSHAL REGULATIONS.
   N. CALIFORNIA EXISTING BUILDING CODE; PART 10, TITLE 24 C.C.R.; 2013 EDITION.
   O. CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R. 2013 EDITION.
   P. NFPA STANDARD 24, 2013 EDITION AS AMENDED IN CBC CHAPTER 35.
   Q. UNDERWRITER'S LABORATORIES, INC (UL).
   R. UL 38, MANUAL OPERATING SIGNAL BOXES, 1999 EDITION W/REVISIONS THROUGH FEBRUARY 2, 2005 AS AMENDED.
   S. UL 268, SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2009 EDITION.
   T. UL 268A, SMOKE DETECTORS DUCT APPLICATIONS, 1996 EDITION W/REVISIONS THROUGH OCTOBER 22, 2003.
   U. UL 346, WATERFLOW INDICATORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2005 EDITION.
   V. UL 464, AUDIBLE SIGNAL APPLIANCES, 2003 EDITION.
   W. UL 521, HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION.
   X. UL 864, CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2003 EDITION W/REVISIONS THROUGH JULY 14, 2005.
2. FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN DIAGRAMATICALLY FOR CLARITY, ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION. ACTUAL CIRCUIT ROUTING AND THE NUMBER AND/OR TYPE OF CIRCUITS IN EACH CONDUIT OR RACEWAY SHALL BE DETERMINED AT THE JOB SITE BY THE INSTALLING CONTRACTOR AND REFLECTED ON THE CONTRACTOR'S RECORD DRAWINGS.
3. NOTIFICATION APPLIANCES SHALL BE CONFIGURED FOR GENERAL ALARM OPERATION. ARRANGEMENT OF NOTIFICATION APPLIANCES CIRCUITS SHALL BE SUCH THAT A SINGLE FAULT ON A NOTIFICATION APPLIANCE CIRCUIT WILL NOT IMPAIR THE OPERATION OF THE NOTIFICATION APPLIANCES IN MORE THAN ONE BUILDING. CIRCUIT LOADING SHALL NOT EXCEED 80% OF THE RATED CAPACITY OF ANY INDIVIDUAL CIRCUIT OR POWER SUPPLY.
4. T-TAPPING OF NOTIFICATION APPLIANCE CIRCUITS IS PROHIBITED.
5. ALL 24 VDC FIRE ALARM CIRCUITS MAY BE COMBINED IN COMMON CONDUITS OR RACEWAYS, SUBJECT TO THE LIMITATIONS OF ARTICLE 760 OF THE NATIONAL ELECTRICAL CODE, THE FIRE ALARM EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, AND THE PROJECT SPECIFICATIONS. CONDUIT FILL SHALL NOT EXCEED 40% MAXIMUM.
6. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SHOP DRAWINGS AND SPECIFICATIONS, INCLUDING VERIFICATION OF CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA).
7. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS AND/OR DEVICES SHALL BE APPROVED BY THE ARCHITECT OF RECORD.
8. ANY DISCREPANCIES BETWEEN THE APPROVED DRAWINGS AND THE CODES OR STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE DSA INSPECTOR OF RECORD.
9. A MINIMUM OF FORTY-EIGHT (48) HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TESTING.
10. A CERTIFICATE OF COMPLIANCE AND TESTING SHALL BE PREPARED IN COMPLIANCE WITH CHAPTER 7 OF NPFA 72, 2013 EDITION BY THE INSTALLING CONTRACTOR AND PRESENTED TO THE INSPECTOR OF RECORD UPON COMPLETION OF THE FIRE ALARM INSTALLATION. PROVIDE RECORD OF COMPLETION IN ACCORDANCE WITH NFPA 72, 2013 EDITION SECTION 7.8.2.
11. THE LOCAL FIRE AUTHORITY & THE DSA PROJECT INSPECTOR SHALL WITNESS THE FINAL TESTING OF THE FIRE ALARM SYSTEM.
12. AUDIBLE DEVICE(S) TO BE AT LEAST 15 dBA ABOVE THE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT MINIMUM HEARING DISTANCE.
13. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS.
15. ALL FIRE ALARM WIRING ROUTED IN UNDERGROUND CONDUIT SHALL BE "AQUA-SEAL" (OR EQUAL) OUTSIDE PLANT CABLE.
16. THE FOLLOWING 120 VOLT CIRCUIT BREAKER SERVING FIRE ALARM SYSTEM COMPONENTS SHALL BE A DEDICATED BRANCH CIRCUIT WITH RED MARKING, LISTED BREAKER LOCK AND IDENTIFIED ON PANEL SCHEDULE AS "FIRE ALARM CIRCUIT CONTROL".
    - PANEL JL CIRCUIT 2
17. SEE THE FIRE ALARM SINGLE LINE DIAGRAM ON SHEET E701 FOR AN ILLUSTRATION OF THE OVERALL SYSTEM ARCHITECTURE.
18. FIRE ALARM MANUAL PULL STATIONS SHALL MEET THE CALIFORNIA ACCESSIBILITY REQUIREMENTS OUTLINED IN THE CBC.
19. KRISTINA MARTIN (ELECTRICAL ENGINEER OF RECORD) IS RESPONSIBLE FOR FIRE ALARM SYSTEM DESIGN IN ACCORDANCE WITH NFPA 72, 7.2.2.

FIRE ALARM SYSTEM COMPONENT SCHEDULE

SYMBOL	EQUIPMENT/DEVICE	MANUFACTURER & MODEL #	CSFM LISTING YEAR	CSFM LISTING NO.	STANDBY AMPS	ALARM AMPS	
FACP	FIRE ALARM SLAVE PANEL CABINET	GAMEWELL-FCI E3BB - BC/INX	6/30/2016	7165-1703:0125	N/A	N/A	
	FIRE ALARM VOICE AMPLIFIER	GAMEWELL-FCI AM-50 SERIES	6/30/2016	7165-1703:0125	.05	1.593	
	POWER SUPPLY MODULE	GAMEWELL-FCI PM-9	6/30/2016	7165-1703:0125	-	.05	
	INTELLIGENT LOOP INTER FACE EXPANSION BOARD	GAMEWELL-FCI ILI-S-E3	6/30/2016	7165-1703:0125	.118	.119	
	ADAPTER PLATE	GAMEWELL-FCI PM-9/PM-9G	6/30/2016	7165-1703:0125	N/A	N/A	
	TRANSPONDER MODULE MOUNTING PLATE	GAMEWELL-FCI E3-INX-C-PLATE	6/30/2016	7165-1703:0125	N/A	N/A	
	INTELLIGENT NETWORK TRANSPONDER	GAMEWELL-FCI INI-VGX	6/30/2016	7165-1703:0125	.150	.150	
PWR	FIRE ALARM BOOSTER PANEL	GAMEWELL-FCI HPFF8	6/30/2016	7315-1637:0102	.002	1.857	
	ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR	GAMEWELL-FCI ASD-PL2F	6/30/2016	7272-1703:0121	.0003	.0065	
	ADDRESSABLE HEAT DETECTOR (135F)	GAMEWELL-FCI ATD-L2F	6/30/2016	7270-1703:0115	.0003	.0065	
PS	INTELLIGENT PULL STATION	GAMEWELL-FCI MS-7 SERIES	6/30/2016	7150-1703:0119	.0003	.003	
CR	CONTROL RELAY	GAMEWELL-FCI AOM-2SF	6/30/2016	7300-1703:0102	.05	.05	
SM	MONITOR MODULE	GAMEWELL-FCI AMM-4F	6/30/2016	7300-1703:0102	.05	.05	
XW XXXcd 15/30/75/110	SPEAKER/STROBE # INDICATES CANDELLA SETTING AS REQ.	SYSTEM SENSOR SPECTR ALERT, SPSRP 15/30/75/110	6/30/2016	7320-1653:201	0	15	.071
						30	.096
						75	.153
						110	.195
WP	WEATHER PROOF SPEAKER	SYSTEM SENSOR SPECTR ALERT, SPRK	6/30/2016	7320-1653:201	N/A	N/A	

NOTE: QUANTITIES OF DEVICES SHOWN ON THIS SCHEDULE ARE ESTIMATED DEVICES INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL COMPONENTS SHOWN ON FLOOR PLANS. THESE QUANTITIES, DO NOT INCLUDE SPARE DEVICES. REFER TO SPECIFICATIONS FOR SPARE DEVICE QUANTITIES.

FIRE ALARM SYSTEM OPERATING MATRIX

RESULT OF OPERATION	PULL STATION	HEAT DETECTOR	SMOKE DETECTOR	SYSTEM RESET	SIGNAL SILENCE	OPEN CIRCUIT, SHORT, ETC.	POWER LOSS
FACP ALARM	X	X	X				
ANNUNCIATE ALARM	X	X	X				
OFF SITE REPORTING ALARM	X	X	X				
FACP TROUBLE					X	X	X
ANNUNCIATE TROUBLE					X	X	X
OFF SITE REPORTING TROUBLE					X	X	X
AUDIBLE ALARM	X	X	X				
VISUAL ALARM	X	X	X				
SUPERVISING STATION	X	X	X			X	
DEACTIVATE AUDIBLES				X	X		
DEACTIVATE VISUALS				X	X		
SYSTEM NORMAL				X			

FIRE ALARM SCOPE OF WORK

REPLACE EXISTING FIRE ALARM SYSTEM WITH NEW TO PROVIDE A COMPLIANT FIRE ALARM SYSTEM FOR BUILDING 900 ON THE SCHOOL SITE AS INDICATED. SYSTEM WILL TIE INTO EXISTING FIRE ALARM HEADEND PANEL LOCATED IN ADMINISTRATION BUILDING 100.

ALL NEW FIRE ALARM DEVICES ARE TO BE CALIFORNIA STATE FIRE MARSHALL (CSFM) LISTED (IF APPLICABLE) AND 100% CODE COMPLIANT, NO EXCEPTION.

INSTALLATION OF NEW FIRE ALARM SYSTEM SHALL FULLY COMPLY WITH NEW SENATE BILL SB-575, NO EXCEPTION.

SUPERVISION OF FIRE ALARM SYSTEM WILL BE PROVIDED BY LISTED SUPERVISING STATION IN COMPLIANCE WITH EITHER UUFX OR UUISS BY UL OR MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 8013.

FIRE ALARM SYSTEM DESCRIPTION

THE FIRE ALARM IS UL AND CSFM LISTED AS AN AUTOMATIC, CLASS 'B' DESIGNATIONS FOR IDC, NOTIFICATION AND INITIATION/SIGNALING LINE CIRCUITS, ZONE NON-CODED ADDRESSABLE SYSTEM. IT IS NFPA 70 AND 72 COMPLIANT 24 VDC CLOSED CIRCUIT, ELECTRONICALLY SUPERVISED, COMMON SIGNALING, DEVICE INITIATING, AUTOMATIC ALARMING TYPE, ACTIVATED FROM MANUAL PULL STATIONS, SMOKE DETECTORS AND HEAT DETECTORS. THE SYSTEM INCLUDES ALL WIRING, RACEWAYS, PULLBOXES, TERMINAL CABINETS, OUTLETS AND MOUNTING BOXES, CONTROL EQUIPMENT, ALARM AND SUPERVISORY SIGNAL INITIATING DEVICES, ALARM, NOTIFICATION DEVICES, ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE CODE AND SENATE BILL SB-575 COMPLIANT OPERATING SYSTEM. SYSTEM SHALL INCLUDE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM WITH MESSAGE OVERRIDE CAPABILITY PER CBC 907.2.3, 907.2.29.2 AND 907.2.29.3

FIRE ALARM WIRING LEGEND

LABEL	TYPE	DESCRIPTION
A	1 PAIR #16 TSP	DATA CHANNEL, WEST PENN D990
B	1 PAIR #12 AWG THHN	NOTIFICATION APPLIANCE CIRCUIT, STRANDED
C	1 PAIR #14 AWG	TWISTED SOLID SHIELDED PAIR VOICE FIRE ALARM CABLE, WEST PENN D994 (14 GAUGE).

NOTES:

1. ALL CABLE TO BE ROUTED IN DEDICATED FIRE ALARM CONDUIT OR RACEWAY WHEN EXPOSED.
2. ALL CABLE SHALL BE SHIELDED, CONTINUOUS, DRY AND FREE FROM ALL GROUNDS AND SHORTS, U.O.N.

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Mt. Pleasant High School

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UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

REGISTERED PROFESSIONAL ENGINEER — KRISTINA MARTIN — No. E15303 — Exp. 03/31/19 — ELECTRICAL — STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT

APPLICATION #: 01-116168

FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017

INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

FIRE ALARM SCHEDULES AND CALCULATIONS

E004

PERMIT BACKCHECK

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

A. General Information

Climate Zone: 4	Conditioned Floor Area:			
	Unconditioned Floor Area:			
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel	
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☐ Unconditioned Spaces	
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration	
Method of Compliance:	☐ Complete Building	☑ Area Category	☐ Tailored	
Project Address: 1750 S. White Road San Jose, CA 95127				

B. LIGHTING COMPLIANCE DOCUMENTS (select yes for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
✓		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
✓		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
✓		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	✓	NRCC-LTI-04-E	Tailored Method Worksheets
	✓	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Inspector	
A	B	C	D	E	F	G	H		
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable ballast)	Watts per Luminaire	From CEC Default NAB	According to §130(c)	Number of Luminaires	Total Installed Watts in this area (C x E)	Primary Function area in which these luminaires are installed	Pass	Fail
F1	2X4 RECESSED LED TROFFER	45	☑	☐	16	720	Offices > 250 Square Feet	☐	☐
F2	SURFACE MOUNT LINEAR LED	33	☑	☐	3	99	Electrical, Mechanical, Telephone Rooms	☐	☐
F2A	SURFACE MOUNT LINEAR LED	33	☑	☐	2	66	Electrical, Mechanical, Telephone Rooms	☐	☐
F3	RECESSED LED DOWNLIGHT	15.6	☑	☐	2	31	Corridors, Restrooms, Stairs And Support Area	☐	☐
F4	SURFACE MOUNTED VANITY LED	20	☑	☐	2	40	Corridors, Restrooms, Stairs And Support Area	☐	☐
F5	8' LONG PENDANT MOUNTED LED	58	☑	☐	9	522	Lounge/Recreation	☐	☐
F5A	4' LONG PENDANT MOUNTED LED	58	☑	☐	9	522	Lounge/Recreation	☐	☐
F5B	LONG PENDANT MOUNTED LED	116	☑	☐	16	1,856	Lounge/Recreation	☐	☐
F6	DECORATIVE PENDANT MTD LED DOWNLIGHT	12	☑	☐	24	288	Lounge/Recreation	☐	☐
F7	RECESSED LED DOWNLIGHT	22.4	☑	☐	5	112	Convention, Conference, Multipurpose And M	☐	☐
F7A	RECESSED LED DOWNLIGHT	22.4	☑	☐	2	45	Convention, Conference, Multipurpose And M	☐	☐
F8	WALL MTD DIRECT LINEAR LED	22.5	☑	☐	2	45	Lounge/Recreation	☐	☐
F9	LONG SURFACE MTD LINEAR LED	76	☑	☐	2	152	Lounge/Recreation	☐	☐
					Installed Watts Page Total:	4,498	Enter sum total of all pages into NRCC-LTI-01-E; page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

B. MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLI

Lighting Control Schedule			Standards Complying With 1 (✓ all that apply, or enter 'E' if Exempted)							Watts of Controlled Lighting	PAF	Control Credit (K x L)	Exempt Installation ✓ if exempt	PAF Inspection	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc.)	# of units	§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
OFFICE/STUDY	Occupancy Sensor Dimmer Switch		✓	✓	✓	E	E	E						☐	☐
STUDY LOUNGE	Daylight Sensor, Auto Time Switch		✓	✓	✓	✓	E	E	✓					☐	☐
PRESENTATION AREA	Auto Time Switch		✓	✓	✓	E	E	E	E					☐	☐
LIBRARY	Auto Time Switch		✓	✓	✓	E	E	E	E					☐	☐
RESTROOM	Occupancy Sensor		✓	✓	✓	E	E	E	E					☐	☐
JC	Occupancy Sensor		✓	E	✓	E	E	E	E					☐	☐
											Control Credit PAGE TOTAL (Sum of column M):				
											IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):				
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.			

1. §130.1(a) = Manual area controls; §130.1(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

C. Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
		Installed Lighting Watts			Installed Lighting Watts	
1.	NRCC-LTI-01-E, page 4	+	4,498	NRCC-LTI-01-E, page 4	+	
2.	PORTABLE ONLY for OFFICES NRCC-LTI-01-E, page 3	+				
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-01-E, page 2	-	
4.	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	4,498	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	
5.	Complies ONLY if **Installed** <= **Allowed**		↕	Complies ONLY if **Installed** <= **Allowed**		↕
6.	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1		7,208	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1		

D. Declaration of Required Installation Certificates
Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
✓		NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
	✓	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Philip Yu	Documentation Author Signature:
Company: The Engineering Enterprise	Signature Date: September 08, 2016
Address: 1305 Marina Village Parkway	CEA/HERS Certification (if applicable):
City/State/Zip Alameda, CA 94501	Phone: (510) 769-7600

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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Responsible Designer Name: Kristina Martin	Responsible Designer Signature:
Company: The Engineering Enterprise	Signature Date: September 08, 2016
Address: 1305 Marina Village Parkway	License: E015303
City/State/Zip Alameda, CA 94501	Phone: (510) 769-7600

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

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STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

E. Declaration of Required Certificates of Acceptance - Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
✓		NRCA-LTI-02-E - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
✓		NRCA-LTI-03-E - Must be submitted for automatic daylight controls.	☐ Field Inspector
	✓	NRCA-LTI-04-E - Must be submitted for demand responsive lighting controls.	☐ Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST
☑ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☑ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance form (LTG-5C) when line-voltage track lighting is installed.

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies)

YES	NO	Control Requirements
✓		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
	✓	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. An Installation Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.3. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
✓		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
✓		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
✓		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.0(a)4.
✓		The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
✓		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
✓		Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
	✓	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
✓		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

ALLOWED LIGHTING POWER
A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☑ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		7,208
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		7,208

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

A	B		C		D
TYPE OF BUILDING (From §140.6 Table 140.6-B)	Watts per (ft^2)	X	Complete Building Area	=	Allowed Watts
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C-1. AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (C-2 plus C-3)

	Watts
Total from section C-2:	7,208
Total from section C-3:	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	7,208

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phoenix • san francisco • tampa

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Mt. Pleasant High School

1750 S. White Road
San Jose, CA 95127

owner:
East Side Union High School District
Facilities & Planning Division
830 North Capitol Avenue
San Jose CA 95133
United States
408.347.5102 voice
408.347.5115 fax

architect:
Gould Evans Associates
95 Brady Street
San Francisco CA 94103
United States
415.503.1411
www.gouldevans.com

structural engineer:
IDA Structural Engineers, Inc.
1629 Telegraph Avenue
Suite 300
Oakland CA 94612
United States
510-834-1629 ext. 102 voice
510-836-1629 fax

mechanical, plumbing engineer:
Capital Engineering
11020 Sun Center Drive, Suite 100
Rancho Cordova CA 95670
United States
961.851.3500 voice

electrical engineer:
The Engineering Enterprise
1305 Marina Village Parkway
Alameda CA 94501
United States
510.263.1531 voice

civil engineer:
BFK Engineers-Redwood City
255 Shoreline Drive, Suite 200
Redwood City CA 94065
United States
650.482.8335 voice
650.619.6031 fax

landscape architect:
Carducci Associates
555 Beach Street
San Francisco CA 94133
United States
415.447.3214 voice

construction manager:
Gilbane
1798 Technology Drive
Suite 120
San Jose CA 95110
408-660-4400 voice

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

REGISTERED PROFESSIONAL ENGINEER
KRISTINA MARTIN
No. E15303
Exp. 03/31/19
ELECTRICAL
STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE # : 43-W10
AC: WJD FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

TITLE 24

E005

PERMIT BACKCHECK

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☑ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.

☑ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B	C	D
AREA CATEGORY (From §140.6 Table 140.6-C)				
Location in Building	Primary Function Area per Table 140.6-C	Watts per (ft²)	Area (ft²)	Allowed Watts
OFFICE/STUDY	Offices ≤ 250 Square Feet	1	1,087	1,087
STUDY LOUNGE	Lounge/Recreation	1.1	2,179	2,397
PRESENTATION AREA	Classrooms, Lecture, Training Vocational Room	1.2	416	499
LIBRARY	Library - Reading Areas	1.2	2,440	2,928
RESTROOM/JC	Corridors, Restrooms, Stairs And Support Areas	0.6	228	137
ELECTRICAL CLOSET/IDF	Electrical, Mechanical, Telephone Rooms	0.7	228	160
	TOTALS		6,578	
	Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)			7,208
				WATTS

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

I. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts						Location	Cutoff	Field Inspector	
A	B	C	D		E	F		G	H	I	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire	How wattage was determined (Check one) from Mfr	according to §130(c)1	Number of Luminaires	Total Installed Watts in this area (C x E)		Primary Function area in which these luminaires are installed	BUG Rating	Pass	Fail
F12	WALL MTD EXTERIOR LED WALL PACK	25	☑	☐	8	200		HARDSCAPE ORNAMENTAL	1 0 1	☐	☐
F13	HORIZONTAL LED STEP LIGHT	4	☑	☐	48	192		STEPS	0 0 0	☐	☐
			☑	☐						☐	☐
		INSTALLED WATTS PAGE TOTAL:				392		Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; page 2			

STATE OF CALIFORNIA

OUTDOOR LIGHTING CONTROLS

CEC-NRCC-LTO-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

The NRCC-LTO-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

A. Mandatory Outdoor Lighting Control Declaration Statements

check all that apply:

- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9
- ☑ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b)
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1
- ☑ Part-Night Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 110.9(b)5
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)
- ☑ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3
- ☐ For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4.
- ☑ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5
- ☐ Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

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STATE OF CALIFORNIA

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

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City/State/Zip Alameda, CA 94501	Phone: (510) 769-7600

STATE OF CALIFORNIA

OUTDOOR LIGHTING CONTROLS

CEC-NRCC-LTO-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

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STATE OF CALIFORNIA

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

Project Address: 1750 S. White Road San Jose, CA 95127	Total Illuminated Hardscape Area

A. General Information

Phase of Construction: ☐ New Construction ☐ Addition ☑ Alteration

Outdoor Lighting Zone (OLZ) ☐ OLZ-1 ☐ OLZ-2 ☑ OLZ-3 ☐ OLZ-4

I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)

For detailed instructions on the use of this and all Enegery Efficiency Standards compliance documents, refe to the Nonresidential Manual published by the California Energy Commission.

- ☑ NRCC-LTO-01-E Certificate of Compliance
- ☑ NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance
- ☑ NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance

C. Summary of Allowed Lighting Power

		Watts	
1.	**Sum Total of ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1	=	982.4
	Complies ONLY if **Installed <= Allowed**	↕	
2.	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3		392

D. Declaration of Required Installation Certificates - Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

- ☑ NRCI-LTO-01-E - Must be submitted for all buildings — ☑ Field Inspector
- ☐ NRCI-LTO-02-E - Must be submitted for lighting control system, or for an Energy Management Control System (EMCS, to be recognized for compliance — ☑ Field Inspector

E. Declaration of Required Installation Certificates - Declare by checking all Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

- ☑ NRCI-LTO-02-E - Must be submitted for outdoor lighting controls. — ☑ Field Inspector

STATE OF CALIFORNIA

OUTDOOR LIGHTING CONTROLS

CEC-NRCC-LTO-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

B. MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or enter 'E' if Exempted)						✓ if acceptance required	Field Inspector	
A	B	C	D	E	F	G	H	I	N	O	
Location and Application of luminaires being controlled	Type/ Description of Lighting Control (i.e.: motion sensor, photocontrol, outdoor astronomical time-switch, centralized time-based zone lighting control, etc.)	# of units	§130.(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
EXTERIOR PATH	Astronomical Time Clock	1	E	✓	✓	E	E	✓		☐	☐
										☐	☐

STATE OF CALIFORNIA

OUTDOOR LIGHTING POWER ALLOWANCES

CEC-NRCC-LTO-03-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

A. Outdoor Lighting Power Allowance Summary

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1.

2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTI-04-E

PER APPLICATION from Section C-1		PER UNIT LENGTH SALES FRONTAGE from Section C-2		PER HARDSCAPE AREA ORNAMENTAL LIGHTING from Section C-3		PER SPECIFIC AREA from Section C-4		
	+		+		+		=	2.

3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)	3.

B. General Hardscape Lighting Power Allowance From Table 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
A	B	C	D	E	F	G	H	I
Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B x C)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (E x F)	IWA (Watts)	D + G + H
EXTERIOR	2360	0.09	212.4				770	982.4
							TOTAL	982.4

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REGISTERED PROFESSIONAL ENGINEER — KRISTINA MARTIN — No. E15303 — Exp. 03/31/19 — STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE #: 43-H10
AC: SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

TITLE 24

E006

PERMIT BACKCHECK

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Philip Yu	Documentation Author Signature:
Company: The Engineering Enterprise	Signature Date: September 08, 2016
Address: 1305 Marina Village Parkway	CEA/HERS Certification (if applicable):
City/State/Zip Alameda, CA 94501	Phone: (510) 769-7600

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kristina Martin	Responsible Designer Signature:
Company: The Engineering Enterprise	Signature Date: September 08, 2016
Address: 1305 Marina Village Parkway	License: E015303
City/State/Zip Alameda, CA 94501	Phone: (510) 769-7600

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 7 of 7)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

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STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 1 of 7)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

Climate Zone 4	Conditioned Floor Area:
	Unconditioned Floor Area:

A. General Information

Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel	
☐ Schools	☐ Relocatable Public Schools	Conditioned Spaces	Unconditioned Spaces	
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration	

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 6 of 7)
Project Name: Mt Pleasant High School	Date Prepared: September 8, 2016

F. Circuit Controls for 120-Volt Receptacles

☑ Controlled 120 volt receptacles shall be provided, as required by Section 130.5(d) of the Standards.

☐ In open office areas, controlled circuit receptacles are not required if, at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.

☑ Receptacles that are only for the following purposes are exempt:
-Receptacles specifically for refrigerators and water dispensers in kitchens.
-Receptacles located a minimum of six feet above the floor that are specifically for clocks.
-Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.

	Field Inspector Pass	Fail
1. At least on controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle. This applies in all of the following spaces: • Private offices, open office areas • Receptions and lobbies • Conference rooms • Kitchenettes in office spaces • Copy room	☐	☐
2. Electric circuits serving controlled receptacles are equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c)1 through 5 (in many cases this will mean that the receptacles are connected to the same automatic shut-OFF system as the general lighting of the space.)	☐	☐
3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.	☐	☐
4. For open office areas, controlled circuits shall be provided and marked to support installtion and configuration of office furniture with receptacles that comply with Section 130.1(a)130.5(d) 1, 2, and 3.	☐	☐
5. For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles athat comply with Section 130.5(d) 1, 2, and 3 (see numbers 1, 2, and 3 above). Electric circuits serving controlled receptacles have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, power is switched off.	☐	☐
6. Plug-in strips and other plug-in devices that incorporate an occupant sensor are not used to comply with any of these requirements.	☐	☐

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No. E15303
Exp. 03/31/19
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STATE OF CALIFORNIA

Number	Revision Description	Date

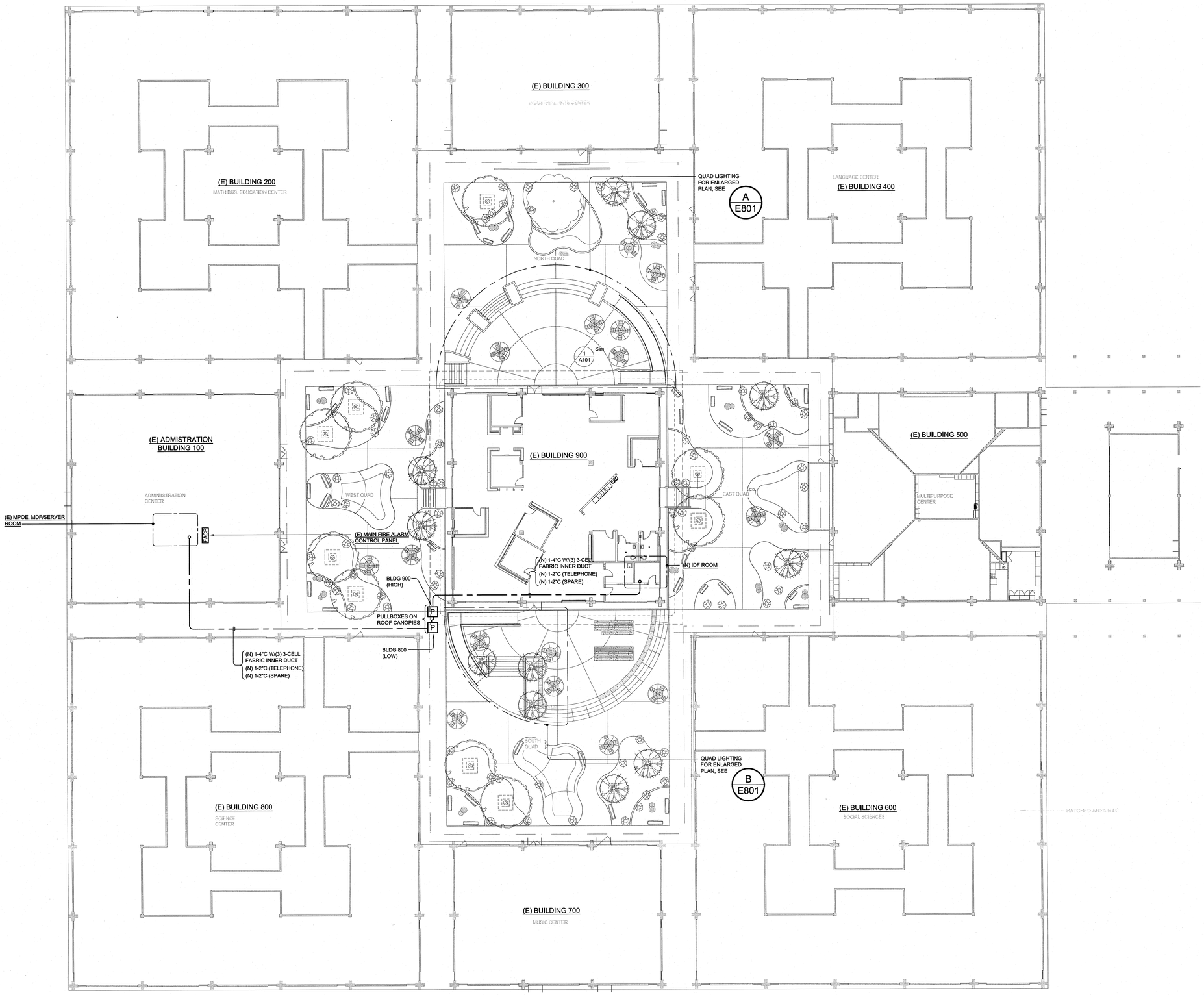
DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE #: 03-H10
AC: SSS: DATE: FEB 23 2017
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Project No 1115-0130
Date: February 15, 2017
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TITLE 24

E007

PERMIT BACKCHECK



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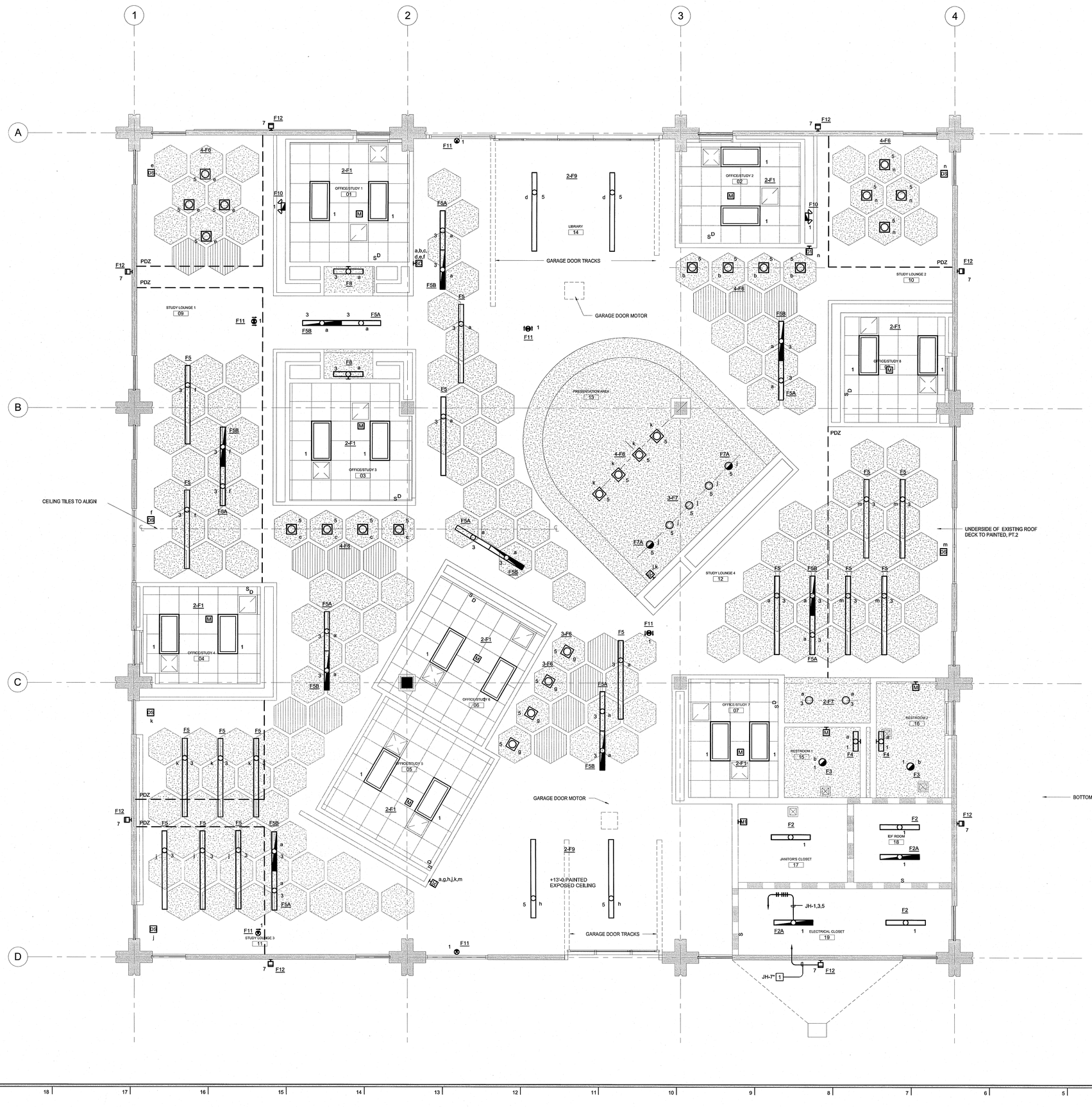
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AC: X
SSS: X
FLS: DC
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INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

SITE ELECTRICAL PLAN

E101

PERMIT BACKCHECK



GENERAL SHEET NOTES

1. NEW LIGHTING SYSTEM THROUGHOUT AREAS OF WORK SHALL BE IN COMPLIANCE WITH 2013 TITLE 24 REQUIREMENTS.
2. NEW LIGHTING FIXTURES SHOWN CONNECTED TO EMERGENCY SYSTEM SHALL BE WIRED TO BE CONTROLLED (SWITCHED) TOGETHER WITH NORMAL LIGHTING FIXTURES AS SHOWN. UTILIZE UL924 LISTED EMERGENCY TRANSFER DEVICES(S) AS REQUIRED.
3. REFER TO SHEET E002 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO SHEET E003 FOR BRANCH CIRCUIT PANEL SCHEDULES.
5. ANY CONDUIT ROUTED EXPOSED TO CEILING SHALL BE PAINTED TO MATCH NEW CEILING FINISH.
6. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN (RCP) FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES. THIS DRAWING INDICATES APPROXIMATE LOCATIONS ONLY.

NUMBERED SHEET NOTES

1 CIRCUITS DENOTED WITH AN ASTERISK *** IN HOMERUN TO BE CONTROLLED BY RELAYS IN LIGHTING CONTROL PANEL. TERMINATE DESIGNATED CIRCUIT CONDUCTORS TO RELAYS AS INDICATED BY LIGHTING CONTROL PANEL SCHEDULE .

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APPLICATION #: 01-116168
FILE # : 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

LIGHTING PLAN

E201

PERMIT BACKCHECK

GENERAL SHEET NOTES

1. REFER TO SHEET E003 FOR BRANCH CIRCUIT PANEL SCHEDULES.
2. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATION OF EQUIPMENT AND TO DETERMINE CONDUIT AND WIRING WORK REQUIRED BY DIVISION 26.
3. ANY CONDUIT ROUTED EXPOSED TO CEILING SHALL BE PAINTED TO MATCH NEW CEILING FINISH.
4. REFER TO SPECIFICATION SECTION 270500 FOR TELECOMMUNICATION OUTLET CAT6 CABLE QUANTITIES FOR EACH OUTLET TYPE. ASSUME EACH OUTLET WILL BE "TYPE B", U.O.N.

NUMBERED SHEET NOTES

1. PROVIDE LOCKABLE COVER OVER DUPLEX CONVENIENCE RECEPTACLE.
2. EXISTING FLOOR BOX TO BE ABANDONED IN PLACE AND USED AS A PULLBOX. DO NOT SPLICE CONDUCTORS WITHIN THIS ABANDONED FLOOR BOX.
3. UTILIZE EXISTING UNDER FLOOR CONDUIT TO PULL NEW CIRCUIT CONDUCTOR HOMERUN FROM EXISTING BRANCH CIRCUIT PANEL. FIELD VERIFY CONDUIT ROUTING AND WHICH EXISTING PANEL CONDUIT IS CONNECTED TO, I.E. PANEL JL OR PANEL JL1.
4. REMOVE AND REPLACE EACH FLOOR BOX CONVENIENCE RECEPTACLE WITH NEW. REFER TO SPECIFICATION SECTION 262726.

GARAGE DOOR 1/2HP, 120V

TYP FOR 9

JL1-21,23,25

JL1-15,17,19

JL-5

JL1-2,4

WATER COOLER 5A, 120V

JL1-6

JL1-27,29,31

COPIER

COPIER

JL1-33,35

12" CABLE TRAY TYPICAL

JL1-9,11,13

JL1-3,5,7

GARAGE DOOR 1/2HP, 120V

JL-7

(INDOOR UNIT) SAC-1 1MCA,208V,1Ø

IDF ROOM FOR LAYOUT SEE B/E601

TWH-1 189W, 120V

JL-12

JL-9

INTRUSION ALARM SYSTEM BELL

ELECTRICAL ROOM FOR LAYOUT SEE A/E601

JL-9

JL1-1

(INDOOR UNIT) SAC-2 1 MCA, 208V, 1Ø

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Project No 1115-0130
Date: February 15, 2017
Sheet:

POWER AND SIGNAL PLAN

E301

PERMIT BACKCHECK

GENERAL SHEET NOTES

1. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
2. FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
3. COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH WITH NEW LIGHT FIXTURES TO AVOID CONFLICTS.
4. INSTALL FIRE ALARM CONDUCTORS IN DEDICATED CONDUIT. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". ROUTE CONDUIT EXPOSED TO CEILING, CONCEALED ABOVE SUSPENDED CEILINGS AND IN WALLS WHENEVER POSSIBLE. UTILIZE WIREMOLD 700 SERIES SURFACE RACEWAY (IN LIEU OF CONDUIT) TO SERVE WALL MOUNTED DEVICES WHERE CONDUIT CANNOT INSTALLED CONCEALED. WALL MOUNTED SURFACE RACEWAY AND CONDUIT ROUTED EXPOSED TO CEILING OR WALL SHALL BE PAINTED TO MATCH NEW CEILING OR WALL FINISH.
5. REFER TO FIRE ALARM SINGLE-LINE DIAGRAM ON SHEET E701 FOR CONNECTIVITY PLAN.

NUMBERED SHEET NOTES

1 INSTALL WALL MOUNTED NOTIFICATION APPLIANCE AT +96" (TO TOP OF DEVICE).

FIRE ALARM WIRING LEGEND

LABEL	TYPE	DESCRIPTION
A	1 PAIR #16 TSP	DATA CHANNEL, WEST PENN D990
B	1 PAIR #12 AWG THHN	NOTIFICATION APPLIANCE CIRCUIT, STRANDED
C	1 PAIR #14 AWG	TWISTED SOLID SHIELDED PAIR VOICE FIRE ALARM CABLE, WEST PENN D994 (14 GAUGE).

NOTES:

1. ALL CABLE TO BE ROUTED IN DEDICATED FIRE ALARM CONDUIT OR RACEWAY WHEN EXPOSED.
2. ALL CABLE SHALL BE SHIELDED, CONTINUOUS, DRY AND FREE FROM ALL GROUNDS AND SHORTS, U.O.N.

(N) FIRE ALARM BOOSTER PANEL

(N) FIRE ALARM CONTROL PANEL

120V DEDICATED CIRCUIT; PANEL JL CKT 2

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construction manager:
Gilbane
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REGISTERED PROFESSIONAL ENGINEER
KRISTINA MARTIN
No. E15303
Exp. 03/31/19
ELECTRICAL
STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE # : 48-H10
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

FIRE ALARM PLAN

E401

PERMIT BACKCHECK

GENERAL SHEET NOTES

1. ALL ELECTRICAL DEVICES, EQUIPMENT AND CONNECTIONS ON ROOF SHALL BE WEATHERPROOF.
2. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF EQUIPMENT AND TO DETERMINE CONDUIT AND WIRING WORK REQUIRED BY DIVISION 26.
3. REFER TO SHEET E003 FOR BRANCH CIRCUIT PANEL SCHEDULES.

RIDGE

LOW SLOPED ROOF AT CANOPY WITH PROTECTION BOARD AND SINGLE PLY "COOL ROOF"

SLOPE: MIN. 1/4"/FT

COLUMN CAPITAL BELOW ROOFING, TYP.

AC-1
13MCA,480V,3Ø
WP
WP G
42
JH-15
#10

AC-2
16MCA,480V,3Ø
WP
WP G
42
#10
JH-21

AC-3
15MCA,480V,3Ø
WP
WP G
42
#10
JH-27

AC-4
15MCA,480V,3Ø
WP
WP G
42
#10
JH-22

AC-5
15MCA,480V,3Ø
WP
42 G
WP
JL1-42
#10
JH-28

(OUTDOOR UNIT)
SCU-1
13MCA,208V,1Ø
13
WP
ET
REF-1
120V

(OUTDOOR UNIT)
SCU-2
13MCA,208V,1Ø
15
WP
2P
WP
2P
JL-13,15
JL-8

LOW SLOPED ROOF AT CANOPY WITH PROTECTION BOARD AND SINGLE PLY "COOL ROOF"

N

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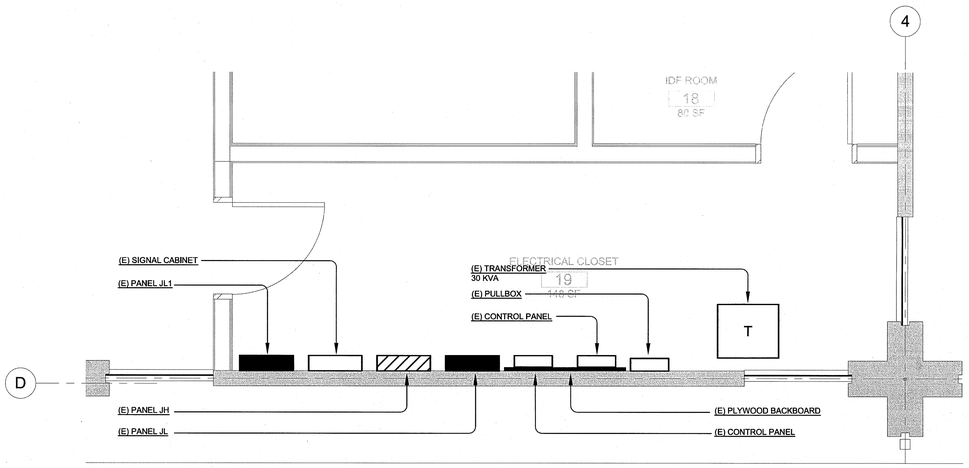
DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE # : 43-110
AC: [illegible] FLS: [illegible]
SSS: [illegible] DATE: FEB 23 2017
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ELECTRICAL ROOF PLAN

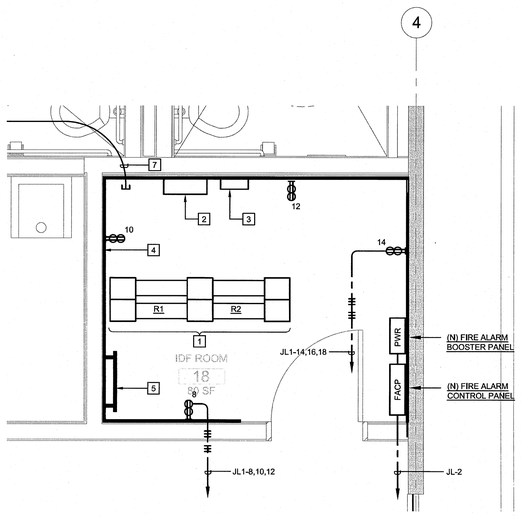
E501

PERMIT BACKCHECK



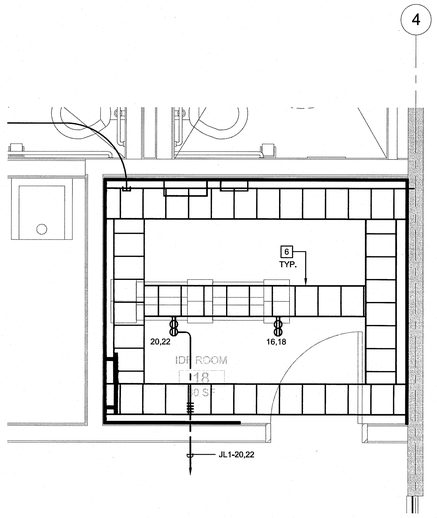
A E601 ELECTRICAL ROOM EQUIPMENT PLAN

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



B E601 IDF ROOM PLAN - EQUIPMENT

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



C E601 IDF ROOM PLAN - OVER HEAD LADDER

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

NUMBERED SHEET NOTES

1. 19"X84" EQUIPMENT RACKS WITH 6" VERTICAL WIRE MANAGERS ON EACH SIDE OF THE RACKS.
2. 50 PAIR BUILDING ENTRANCE PROTECTORS FULLY LOADED WITH FUSES. INCOMING OSP CABLE TO BE ONE 50 PAIR AND ONE 25 PAIR. TERMINATE EACH TO RESPECTIVE 50 PAIR PROTECTOR WITHOUT SPLICING.
3. 100 PAIR 110 TERMINATION BLOCK/S. PROVIDE A 25 PAIR POWER SUM CAT 5E CABLE FROM THE 110 BLOCK TO A RACK MOUNTED 24 PORT CAT 5E PATCH PANEL.
4. 4'X8'X3/4" FIRE TREATED PLYWOOD BACKBOARD AROUND ALL WALLS. MOUNT AT 4" AFF. SECURE 1" FROM EDGES AND 16 "OC TO WALL STUDS.
5. 4"X12"X1/4" GROUND BUS BAR WITH ISOLATION STANDOFF BRACKETS. SECURE TO WALL, 2" BELOW BOTTOM OF LADDER RACK. GROUND TO TELECOMMUNICATIONS GROUND IN ELECTRICAL ROOM WITH A 2/0 STRANDED COPPER. BOND ALL CABLE LADDER, EACH RACK, BEP'S AND CONDUIT SLEEVES TO BUS BAR WITH #6 STRANDED COPPER WITH GREEN JACKET.
6. 12" CABLE LADDER AROUND PERIMETER OF IDF ROOM AND OVER EQUIPMENT RACKS AT 90" AFF. SUPPORT TO TOP OF RACKS WITH 6" RACK STANDOFF BRACKETS, AND TO WALLS WITH ANGLE BRACKETS AND END BRACKETS, EVERY 54". USE GROUND STRAPS TO BOND EACH SECTION OF CABLE LADDER FOR A CONTINUOUS BOND. REFER TO DETAILS B THRU G ON SHEET E804, .
7. 2-4" CONDUIT INTO ROOM ABOVE CABLE LADDER. REFER TO E301.

GENERAL SHEET NOTES

1. REFERENCE TELCOM DRAWINGS FOR ADDITIONAL INFORMATION.
2. BOTH RACKS SHALL SUPPORT THE FIBER TERMINATION PANEL, AND ACTIVE EQUIPMENT (NETWORK SWITCH, AND NETWORK VIDEO RECORDER AND UPS.
3. RACK 2 (R2) SHALL SUPPORT THE CATEGORY 6 HORIZONTAL CABLE PATCH PANELS AND THE ANALOG VOICE, CATEGORY PATCH PANEL.

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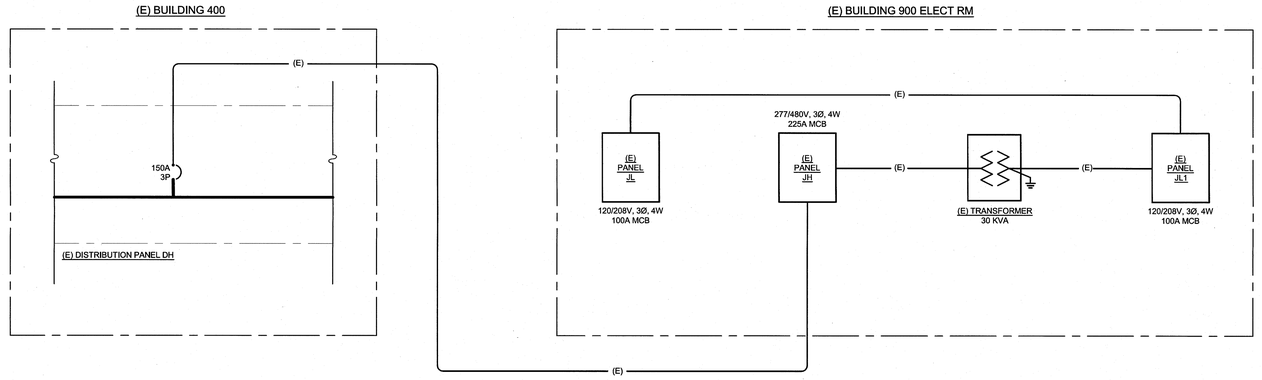
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FILE # : 43-3110
AC: SSS: W/D FLS: DATE: FEB 23 2017
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ELECTRICAL ROOM LAYOUTS

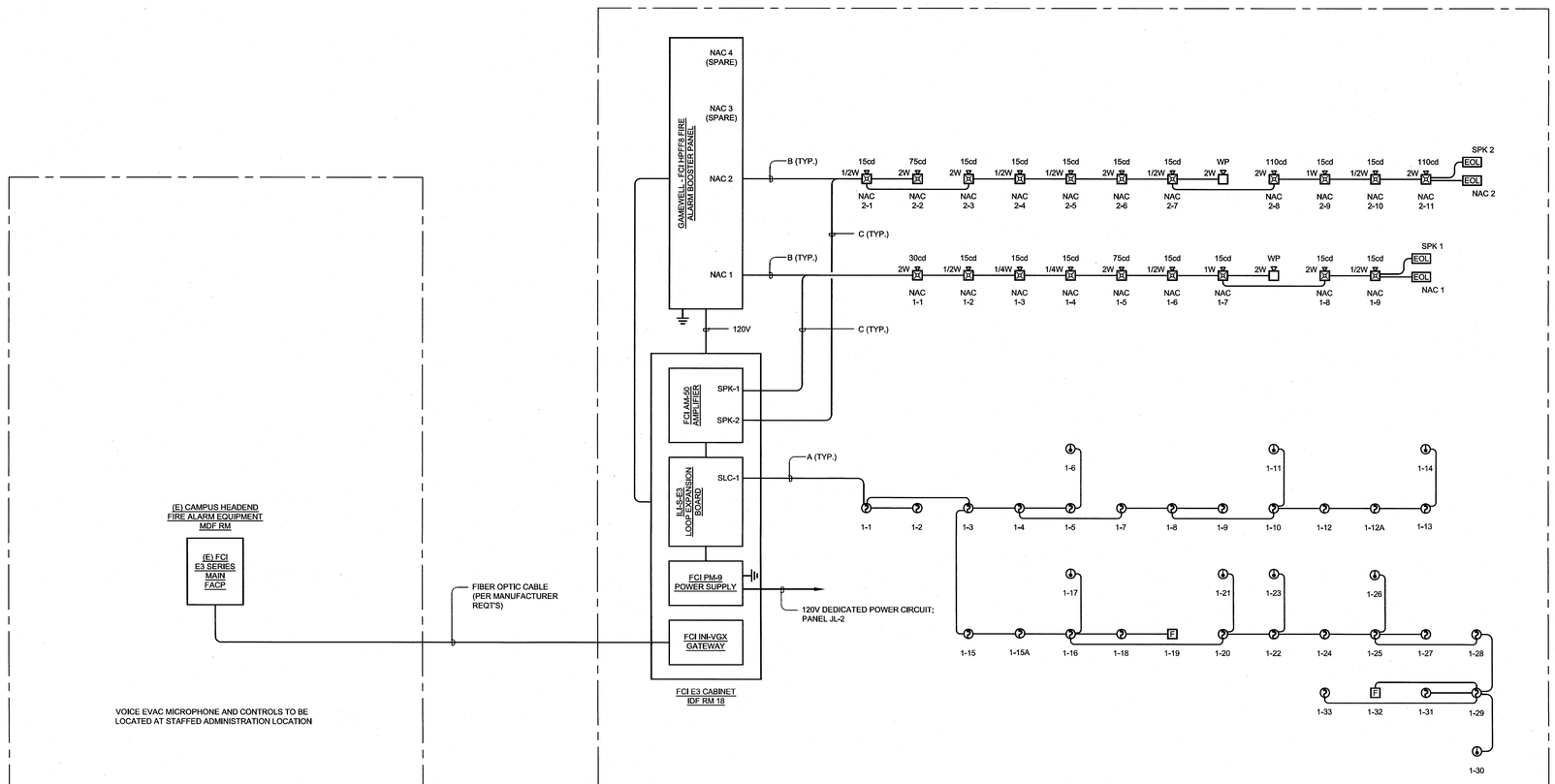
E601

PERMIT BACKCHECK



A E701 POWER ONE-LINE DIAGRAM

SCALE: NTS



B E701 FIRE ALARM RISER DIAGRAM

SCALE: NTS

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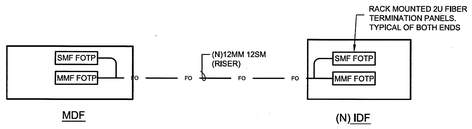
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POWER ONE-LINE DIAGRAM AND FIRE ALARM RISER DIAGRAM

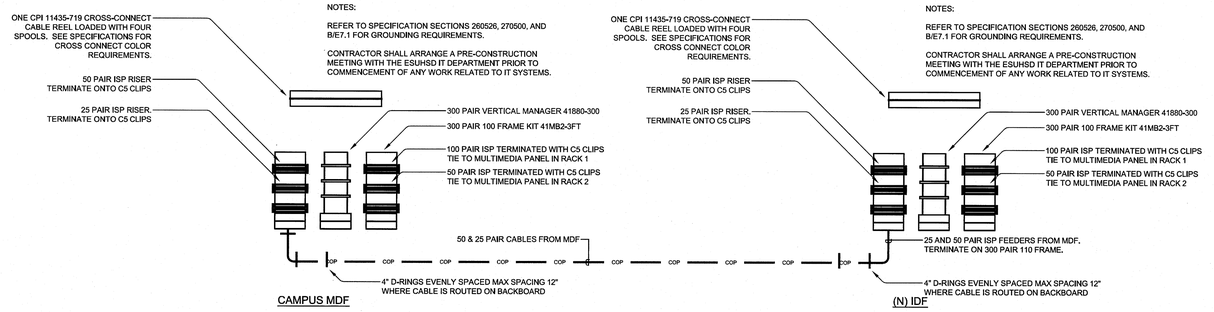
E701

PERMIT BACKCHECK



A E702 BUILDING FIBER RISER DIAGRAM

NTS

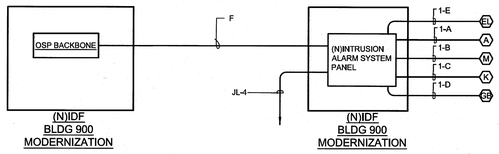


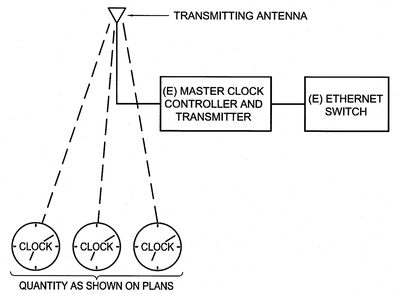
B E702 BUILDING COPPER RISER DIAGRAM

NTS

COMMUNICATION CABLE SCHEDULE

CABLE ID	DESCRIPTION
A	WEST PENN 222, 2 #20 IN EMT CONDUIT, DOOR CONTACTS
B	WEST PENN 244, 4 #18 IN EMT CONDUIT, MOTION/PIR DETECTORS
C	WEST PENN 244, 4 #18 IN EMT CONDUIT, KEY PADS
D	WEST PENN 244, 4 #18 IN EMT CONDUIT, GLASS BREAK STATIONS
E	WEST PENN 244, 4 #18 IN EMT CONDUIT, ELECTRIC DOOR LOCK
F	SITE OSP BACKBONE CABLE



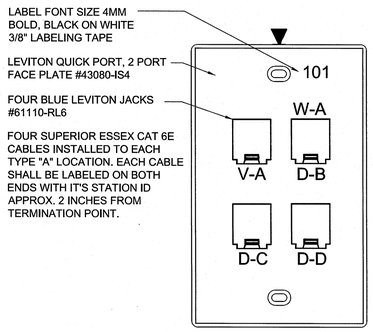


C E702 INTRUSION ALARM SYSTEM RISER DIAGRAM

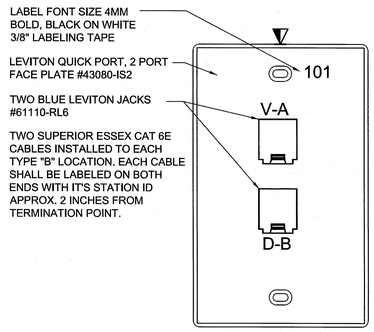
NTS

D E702 WIRELESS CLOCK DIAGRAM

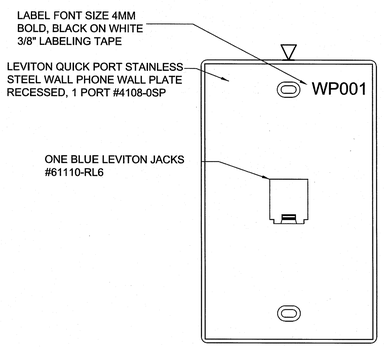
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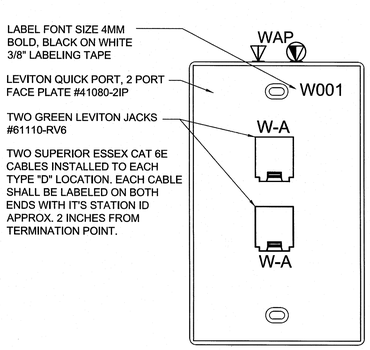
TYPE "A" WORK STATION



TYPE "B" WORK STATION



TYPE "C" WALL PHONE PLATE



TYPE "D" WAP PLATE

NOTE: THE FACE PLATE SHALL BE SECURED TO A SINGLE GANG LEVITON BACK BOX #42777-1IA. SUPPORT NEATLY ABOVE THE CEILING WITH A 10 FT. SERVICE LOOP, COILED 1' MIN DIAMETER. A GREEN AVERY LABEL #5463 AND A STATION LABEL UTILIZING THE SAME FONT SIZE AS THE FACE PLATE MUST BE PLACED ON THE CEILING GRID DIRECTLY BELOW THE LOCATION OF THE OUTLET,

E E702 WALL PLATE DETAILS

NTS

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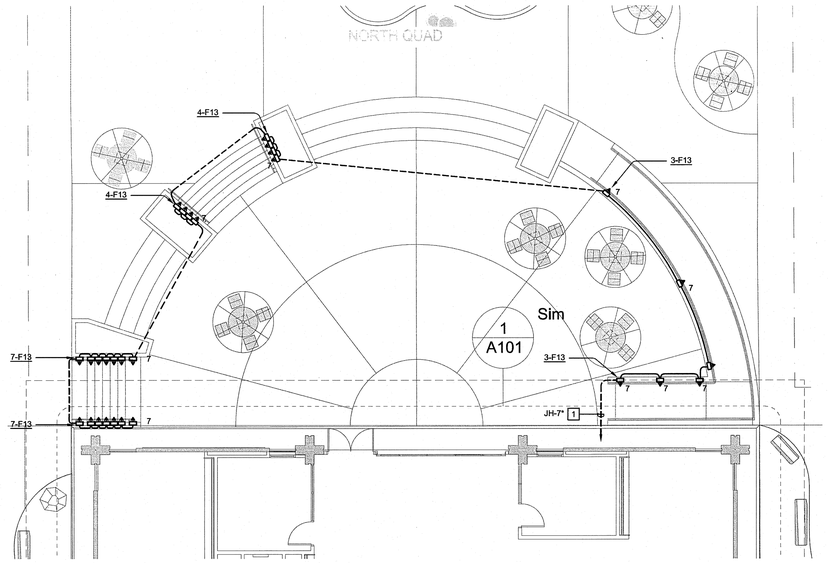
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LOW VOLTAGE RISER DIAGRAMS

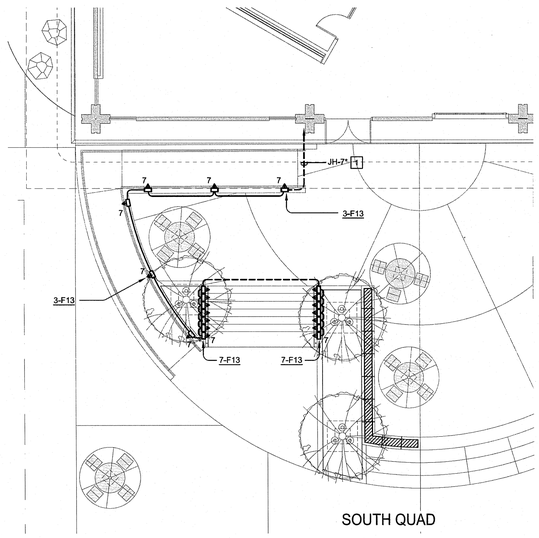
E702

PERMIT BACKCHECK



A E801 QUAD LIGHTING ENLARGED PLAN

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



B E801 QUAD LIGHTING ENLARGED PLAN

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

GENERAL SHEET NOTES

1. REFER TO SHEET E002 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO SHEET E003 FOR BRANCH CIRCUIT PANEL SCHEDULES.

NUMBERED SHEET NOTES

1 CIRCUITS DENOTED WITH AN ASTERISK "*" IN HOMERUN TO BE CONTROLLED BY RELAYS IN LIGHTING CONTROL PANEL. TERMINATE DESIGNATED CIRCUIT CONDUCTORS TO RELAYS AS INDICATED BY LIGHTING CONTROL PANEL SCHEDULE.

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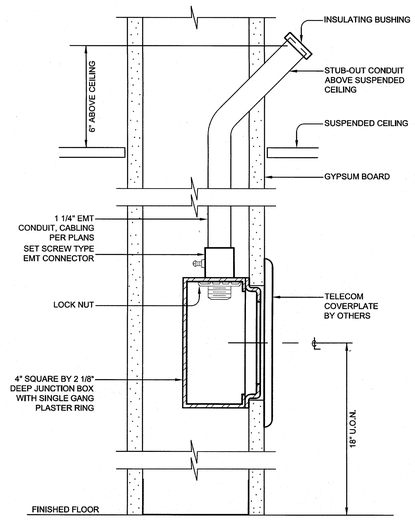
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ELECTRICAL DETAILS

E801

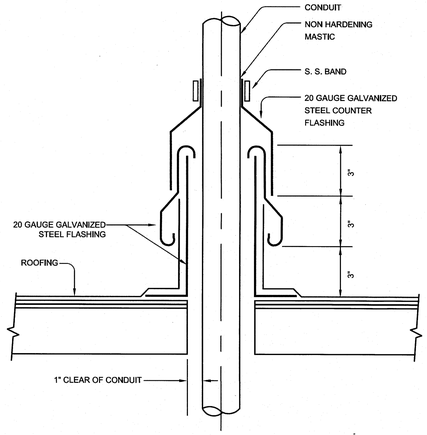
PERMIT BACKCHECK



NOTE: TYPICAL INSTALLATION WITH CONDUIT STUBBED ABOVE CEILING UNLESS SHOWN OTHERWISE ON PLANS.

A E802 TELECOMMUNICATIONS DEVICE

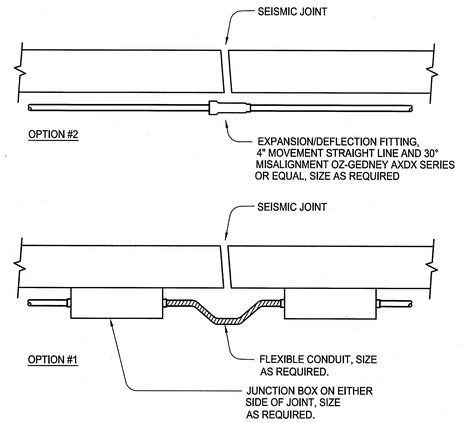
NONE



TYPICAL OF ALL CONDUIT PENETRATIONS AT ROOF

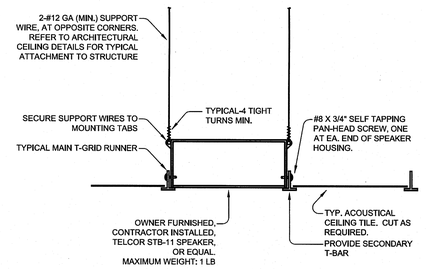
B E802 CONDUIT PENETRATION AT ROOF

NONE



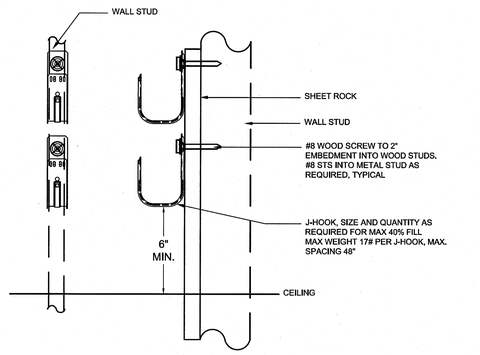
C E802 CONDUIT CROSSING SEISMIC JOINT

NTS



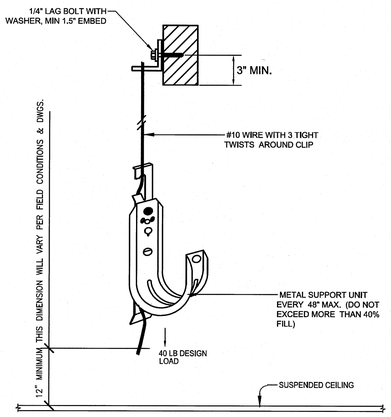
D E802 SPEAKER MOUNTING DETAIL

NTS



E E802 J-HOOK WALL ATTACHMENT DETAIL

NTS

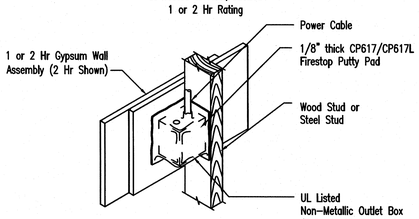


NOTE: SPACE CABLE HANGERS A MAXIMUM 5'-0" ON CENTER WITHIN LAYOUT SHOWN ON TELECOMMUNICATION DRAWINGS.

F E8.02 J-HOOK CEILING ATTACHEMENT DETAIL

NTS

Wall Opening Protective Materials (CLIV)
as Tested to ANSI/UL 263
1 or 2 Hr Rating



CP 617 Putty Pads, for use with max 4 by 4 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and completely seal against the stud within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated configuration of Wall and Partition Design No. V446 in the Fire Resistance Directory. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the box within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. and the boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud Wall and Partition Design in the Fire Resistance Directory. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Min 3/8" thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including the tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. and the boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tabs and completely seal against the stud within the stud cavity. Outlet boxes installed with plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

HILTI FIRESTOP SYSTEMS

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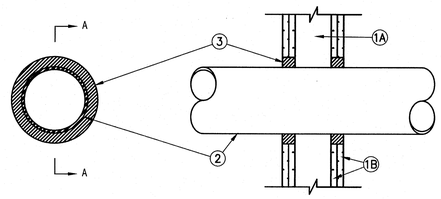
GENERAL SHEET NOTES

A. REFER TO ARCHITECTURAL PLANS FOR IDENTIFICATION OF ALL RATED WALL ASSEMBLIES. ALL CONDUIT AND BOX PENETRATIONS OF RATED WALLS SHALL BE INSTALLED PER THE APPLICABLE UL LISTED ASSEMBLY.

G E802 RATED PENETRATION DETAIL

NONE

System No. W-L-1054
F Ratings – 1 and 2 Hr (See Items 1 and 3)
T Rating – 0 Hr
L Rating At Ambient – Less Than 1 CFM/Sq Ft
L Rating At 400 F – 4 CFM/Sq Ft



SECTION A–A

1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
   The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Materials* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
*Bearing the UL Classification Mark

HILTI FIRESTOP SYSTEMS

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H E802 RATED PENETRATION DETAIL

NONE

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REGISTERED PROFESSIONAL ENGINEER
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No. E15303
Exp. 03/31/19
ELECTRICAL
STATE OF CALIFORNIA

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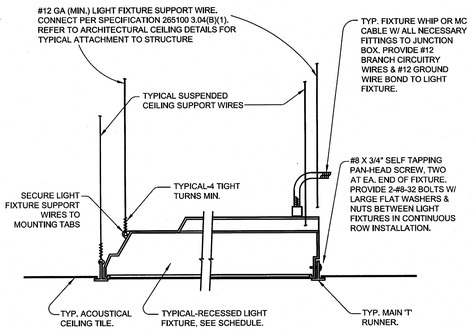
DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE #: 43-H10
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

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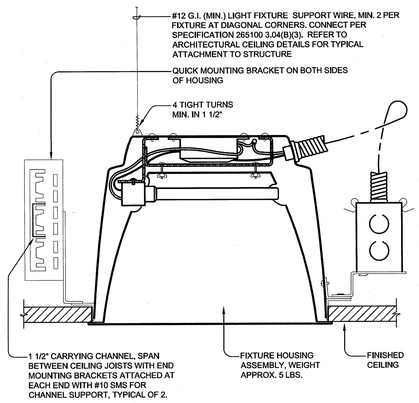
E802

PERMIT BACKCHECK



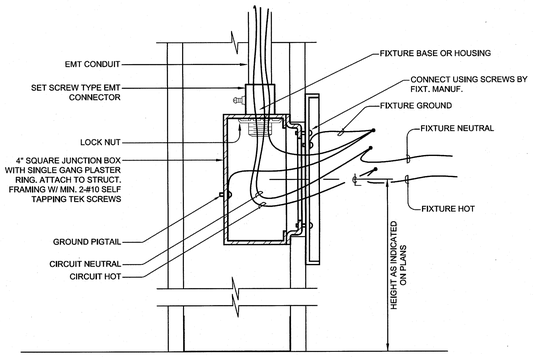
A E803 RECESSED FIXTURE AT T-BAR CEILING

NONE



B E803 RECESSED DOWNLIGHT

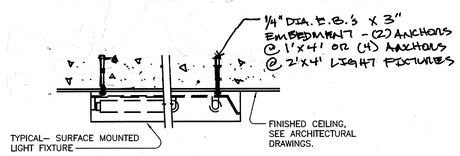
NONE



C E803 WALL MOUNTED FIXTURE

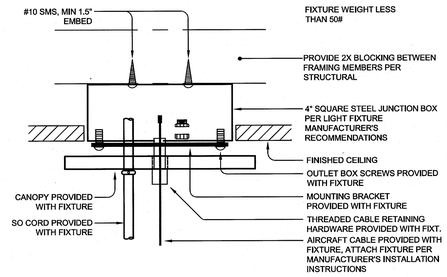
NONE

NOTE:
LIGHT FIXTURES SHALL BE APPROVED FOR DIRECT MOUNTING TO LOW DENSITY COMBUSTIBLE TILE.



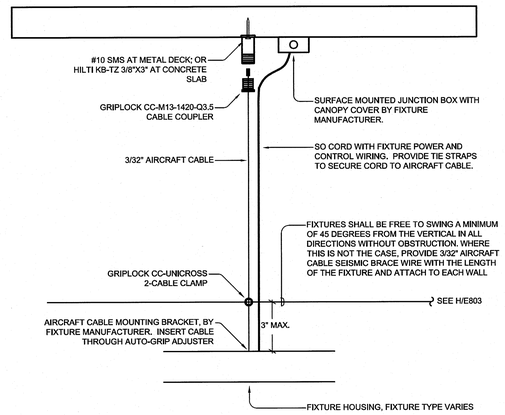
D E803 SURFACE MOUNTED FIXTURE

NONE



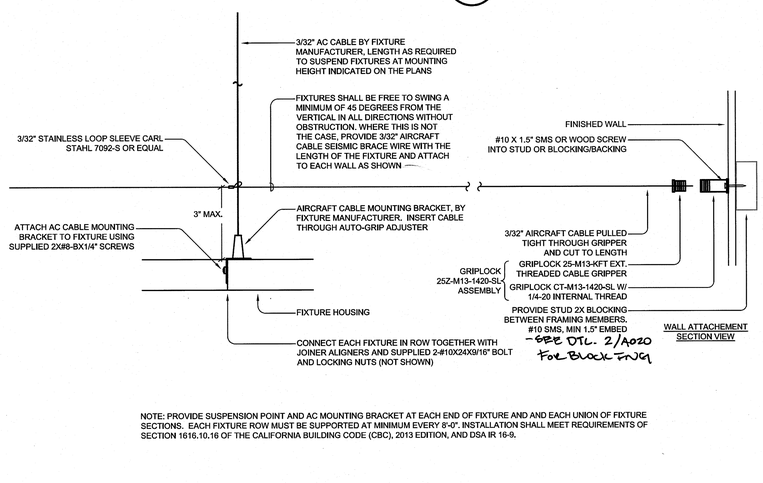
E E803 PENDANT MOUNTED FIXTURE

NONE



F E803 SUSPENDED LIGHT FIXTURES

NONE

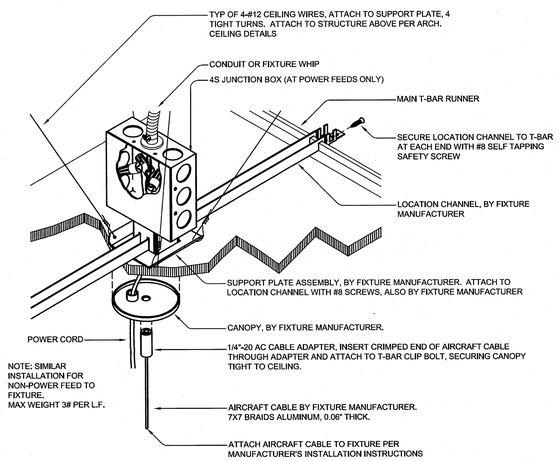


NOTE: PROVIDE SUSPENSION POINT AND AC MOUNTING BRACKET AT EACH END OF FIXTURE AND AND EACH UNION OF FIXTURE SECTIONS. EACH FIXTURE ROW MUST BE SUPPORTED AT MINIMUM EVERY 8'-0". INSTALLATION SHALL MEET REQUIREMENTS OF SECTION 1616.10.16 OF THE CALIFORNIA BUILDING CODE (CBC), 2013 EDITION, AND DSA IR 16-9.

SUSPENDED FIXTURE INSTALLATION - ATTACHMENT AT FIXTURE

G E803 SUSPENDED LIGHT FIXTURE

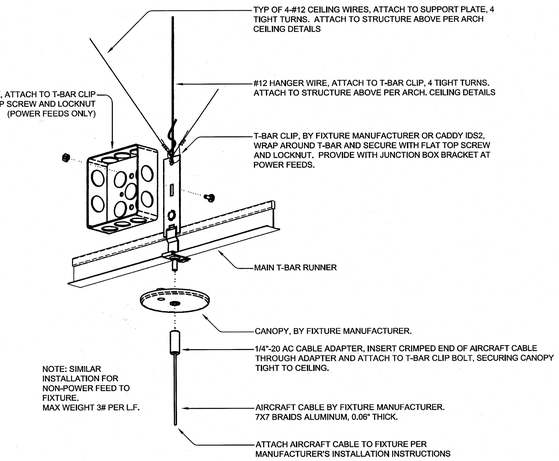
NONE



SUSPENDED FIXTURE INSTALLATION AT T-BAR CEILING, BETWEEN T-BAR RUNNERS

H E803 SUSPENDED LIGHT FIXTURE

NONE



SUSPENDED FIXTURE INSTALLATION AT T-BAR CEILING, ON T-BAR RUNNER

I E803 SUSPENDED LIGHT FIXTURE

NONE

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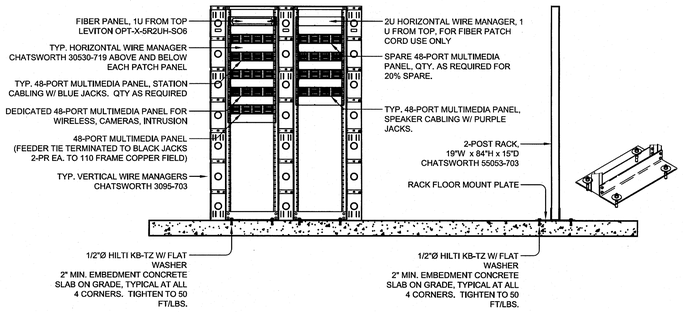
DIVISION OF THE STATE ARCHITECT
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FILE #: 43-H10
AC: FLS: FEB 23 2017
SSS: DATE:
INDENTIFICATION STAMP

Project No	1115-0130
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Sheet:	

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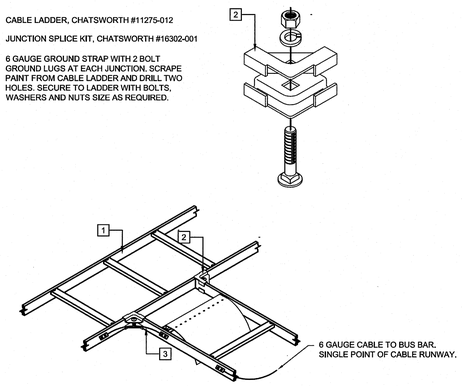
E803

PERMIT BACKCHECK



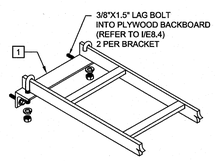
A E804 EQUIPMENT RACK BASE SUPPORT

NTS



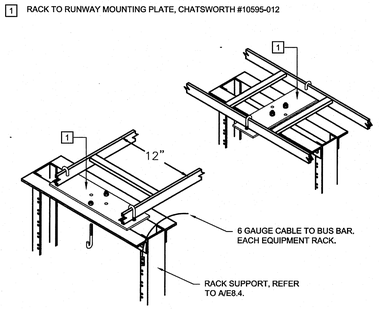
D E804 LADDER JUNCTION KIT

NTS



E E804 LADDER END SUPPORT BRACKET

NTS

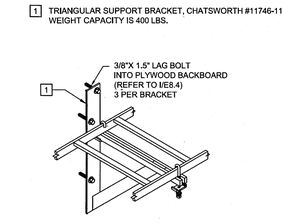


B E804 VERTICAL LADDER SUPPORT

NTS

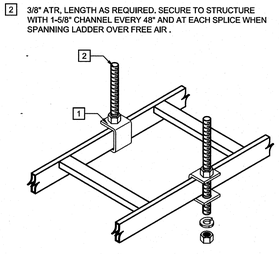
F E804 LADDER TO RACK SUPPORT

NTS



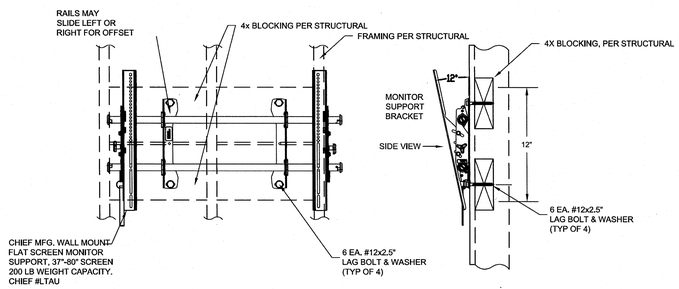
C E804 ANGLE WALL SUPPORT

NTS



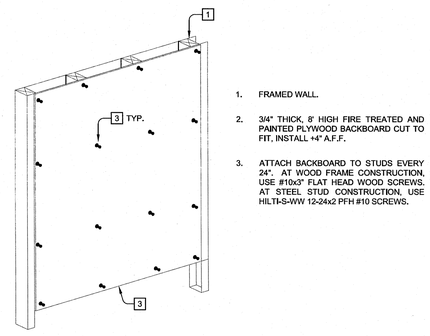
G E804 LADDER VERTICAL SUPPORT

NTS



H E804 FLAT SCREEN TV WALL MOUNT

NTS



1. FRAMED WALL.
2. 3/4" THICK, 8' HIGH FIRE TREATED AND PAINTED PLYWOOD BACKBOARD CUT TO FIT, INSTALL +4" A.F.F.
3. ATTACH BACKBOARD TO STUDS EVERY 24". AT WOOD FRAME CONSTRUCTION, USE #10x3" FLAT HEAD WOOD SCREWS. AT STEEL STUD CONSTRUCTION, USE HILTI-S-WW 12-24x2 PFH #10 SCREWS.

I E804 PLYWOOD BACKBOARD MOUNTING DETAIL

NTS

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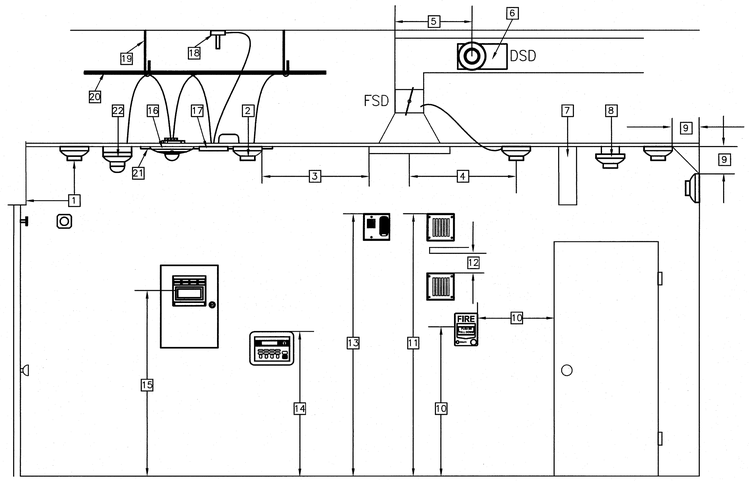
ELECTRICAL DETAILS

E804

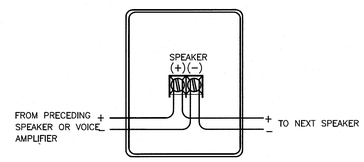
PERMIT BACKCHECK

MOUNTING DETAIL NOTES

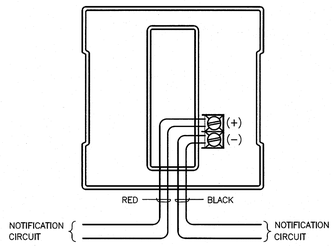
1. MOUNT DOOR HOLDER SMOKE DETECTOR MAXIMUM 3' FROM DOOR, MINIMUM 1'.
2. MAX. DISTANCE BETWEEN SMOKE DETECTORS 30' AND 15' FROM WALL, MAXIMUM DISTANCE FROM CORNER 21' WITH CEILING 10' OR LESS.
3. MOUNT SMOKE DETECTOR MINIMUM 3' FROM DIFFUSER VENT.
4. MOUNT SMOKE DETECTOR FOR SMOKE DAMPER (FSD) WITHIN 3' OF SUPPLY VENT.
5. DUCT SMOKE DETECTOR SHALL BE MOUNTED 6 TO 10 TIMES THE DIAMETER OF DUCT FROM BEND OR OBSTRUCTION.
6. WHERE DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATION OR GREATER THAN 10' AFF, DETECTORS SHALL BE PROVIDED WITH A REMOTE INDICATOR OR SUPERVISORY INDICATION ACCEPTABLE WITH AUTHORITY HAVING JURISDICTION. ALL HVAC GREATER THAN 2000cfm SHALL HAVE A DUCT SMOKE DETECTOR IN THE SUPPLY AIR DUCT. GREATER THAN 15,000cfm SHALL HAVE ONE IN BOTH SUPPLY AND RETURN AIR DUCTS. HOWEVER SHALL NOT BE REQUIRED WHERE ENTIRE SPACE SERVED BY THE AIR DISTRIBUTION SYSTEM IS PROTECTED BY SMOKE DETECTORS .
7. BEAM POCKET SPOT SMOKE DETECTORS ARE REQUIRED FOR BEAMS GREATER THAN 12". BEAM POCKET SPOT HEAT DETECTORS ARE REQUIRED FOR BEAMS GREATER THAN 18".
8. WHEN BEAMS 4" OR LESS SMOKE DETECTORS SHALL BE MOUNTED ON THE BOTTOM OF THE BEAM OR FLUSH ON THE CEILING.
9. SMOKE DETECTORS SHALL BE MOUNTED ON CEILING MINIMUM 4" FROM WALL, AND 4" MINIMUM TO 12" MAXIMUM FROM CEILING MOUNTED ON WALL.
10. MOUNT MANUAL PULL STATIONS AT 48" TO ACTIVATING CONTROL ABOVE FIXED FLOOR AND NO GREATER THAN 5' FROM DOOR.
11. MOUNT EXTERNAL HORN AT 90" MINIMUM AND 100" MAXIMUM TO THE TOP OF THE DEVICE.
12. FOR APPLICATIONS WHERE STRUCTURE IS BELOW 90", MOUNT HORN AS HIGH AS POSSIBLE WITH MINIMUM 6" CLEARANCE TO THE TOP OF THE DEVICE.
13. MOUNT HORN / SPEAKER STROBE AND STROBE ONLY AT MAXIMUM 96" TO THE TOP OF THE DEVICE. MINIMUM 80" THE THE BOTTOM OF THE DEVICE.
14. MOUNT FIRE ALARM SYSTEM REMOTE ANNUNCIATOR AT 48" TO THE TOP CONTROL BOX IN ACCORDANCE WITH OBC 1117B.0 (3)
15. MOUNT FIRE ALARM CONTROL PANEL AT 48" TO THE TOP OF THE KEYPAD.
16. CEILING MOUNTED HORN / SPEAKER STROBE
17. MONITOR MODULE
18. RATE ANTICIPATOR HEAT DETECTOR, MOUNTED IN ATTIC SPACE.
19. APPROVED WIRE MANAGEMENT, le J-HOOK OR D RING.
20. ABOVE CEILING CIRCUITS ROUTING IN AN ACCESSIBLE ATTIC SPACE
21. NON-ACCESIBLE CEILINGS MUST USE EITHER EMT OR APPROVED WIREMOLD RACEWAY, AS SHOWN ON DRAWINGS
22. MULTI CRITERIA PHOTOELECTRIC SMOKE / CO DETECTOR WITH SOUNDER BASE. MOUNTED IN AREAS WHERE FOSSIL FUEL IS USED.



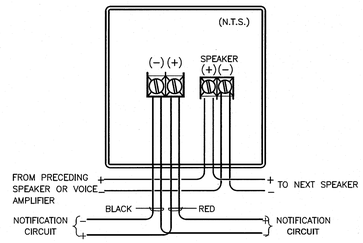
A / E805 FIRE ALARM DEVICE ELEVATION MOUNTING DETAIL (N.T.S.)



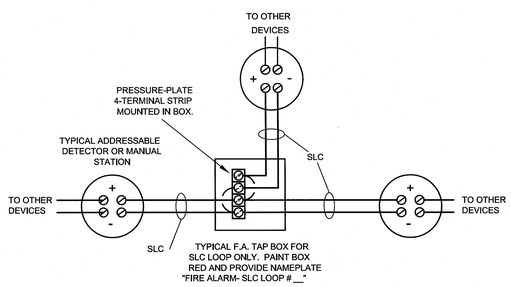
B / E805 NOTIFICATION SPEAKER DEVICE DETAIL



C / E805 TYPICAL FIRE ALARM STROBE DEVICE DETAIL



D / E805 TYPICAL NOTIFICATION SPEAKER/STROBE DEVICE DETAIL (N.T.S.)



E / E805 TYPICAL FIRE ALARM T-TAP

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REGISTERED PROFESSIONAL ENGINEER
KRISTINA MARTIN
No. E15303
Exp. 03/31/19
ELECTRICAL
STATE OF CALIFORNIA

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION #: 01-116168
FILE # : 43-810
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

FIRE ALARM DETAILS

E805

PERMIT BACKCHECK

DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	1" ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
28x16L2	28x16L2	2" ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R OR D	RISE OR DROP	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
OR		RECTANGULAR TO RECTANGULAR TRANSISTION , MAX. SLOPE OF 1:3 RECTANGULAR TO ROUND TRANSITION , MAX. SLOPE OF 1:3
	W, R, R/W = 1.5	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		CONICAL DUCT TAKE OFF FROM RECTANGULAR VIA SPIN-IN W/DAMPER AND SCOOP
ROUND DUCT		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
		RETURN AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION, RETURN AIR DROP
		EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP
		FLEXIBLE DUCT (ROUND)
		FLEXIBLE DUCT (FABRIC)
MAD	18"□ 10"□ 12"□	45°REDUCING LATERAL FITTING
MAD	18"□ 10"□ 12"□	90°REDUCING TEE FITTING

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	ABC	ABOVE CEILING
	AF	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AD , AP	ACCESS DOOR , ACCESS PANEL
	AC	AIR CONDITIONING
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	AB	ANCHOR BOLT
	AAV	ANGLE VALVE
	AAV	AUTOMATIC AIR VENT
ATV	ATV	ATMOSPHERIC VENT (STEAM OR HOT VAPOR)
	BV	BALL VALVE
	BDD	BACK DRAFT DAMPER
	BFP	BACKFLOW PREVENTER
	BF	BELOW FLOOR
	BHP	BRAKE HORSE POWER
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	BFV	BUTTERFLY VALVE
BPT	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
	CC	CENTER TO CENTER
	CLG	CEILING
	CEF	CEILING EXHAUST FAN
	CKV	CHECK VALVE
CHWS	CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHWR	CHILLED WATER RETURN PIPING
	CP	CIRCULATING PUMP
	CLR	CLEAR
	CONC	CONCRETE
		CONCENTRIC REDUCER
CD	CD	CONDENSATE DRAIN
CR	CR	CONDENSATE RETURN
	COND	CONDENSER
CWS	CWS	CONDENSER WATER SUPPLY PIPING
CWR	CWR	CONDENSER WATER RETURN PIPING
	CONN	CONNECT OR CONNECTION
	CONT	CONTINUATION
	CONTR	CONTRACTOR
	CT	COOLING TOWER
%%154	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	DPR	DAMPER
°F		DEGREES FAHRENHEIT
–	DIA	DIAMETER , PHASE
	DL	DOOR LOUVER
	DN	DOWN
	DR	DRAIN
	DB	DRY BULB (DEGREES FAHRENHEIT)
DS	DS	DYNAMIC SENSOR
		ECCENTRIC REDUCER
	EP	ELECTRICAL PANEL
	EL	ELEVATION
	ENT	ENTERING
	EDB	ENTERING DRY BULB
	EW	ENTERING WATER
	EWT	ENTERING WATER TEMPERATURE
	EWB	ENTERING WET BULB
	EVAP	EVAPORATOR
	EC	EVAPORATIVE COOLER
	EA	EXHAUST AIR
	EAD	EXHAUST AIR DAMPER
	EF	EXHAUST FAN
	(E), EXIST	EXISTING
	(E)	EXISTING TO BE REMOVED
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	FIN	FINISH
F	FD	FIRE DAMPER
FS	FS	FIRE/SMOKE DAMPER
	FC	FLEXIBLE CONNECTION
	FLR	FLOOR
		FLOW IN DIRECTION OF ARROW
	FLV	FLOW LIMITING VALVE
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GCK	GAGE COCK
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GV	GATE VALVE
	GLV	GLOBE VALVE
	GALV	GALVANIZED
	GI	GALVANIZED IRON
	GA	GAUGE
	HTG	HEATING
HPS	HPS	HIGH PRESSURE STEAM
HPR	HPR	HIGH PRESSURE RETURN
	HW	HOT WATER
HWS	HWS	HOT WATER SUPPLY PIPING
HWR	HWR	HOT WATER RETURN PIPING

MECHANICAL LEGEND cont'd

SYMBOL	ABBREVIATION	DESCRIPTION
H x	H	HUMIDISTAT, "X" INDICATES DEVICE CONTROLLED
	IE	INVERT ELEVATION
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR	LOUVER
LPS	LPS	LOW PRESSURE STEAM
LPR	LPR	LOW PRESSURE RETURN
	MAD, MD	MANUAL AIR DAMPER
	MAV	MANUAL AIR VENT
	MFR	MANUFACTURER
	MAX	MAXIMUM
MPS	MPS	MEDIUM PRESSURE STEAM
MPR	MPR	MEDIUM PRESSURE RETURN
	MIN	MINIMUM
	MCC	MOTOR CONTROL CENTER
	(N)	NEW
	OC	ON CENTER
	OA	OUTSIDE AIR
	OAD	OUTSIDE AIR DAMPER
	OD	OUTSIDE DIAMETER
	OV	OUTLET VELOCITY
	OH	OVERHEAD
		PETE'S PLUG
		PIPE ANCHOR
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	POC	POINT OF CONNECTION
	LBS	POUNDS
	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
	PG	PRESSURE GAUGE
	PRV	PRESSURE REDUCING VALVE
	PCR	PUMPED CONDENSATE RETURN
RG	RG	REFRIGERANT GAS PIPING
RS	RS	REFRIGERANT SUCTION PIPING
RL	RL	REFRIGERANT LIQUID PIPING
	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE
	RA	RETURN AIR
	RAD	RETURN AIR DAMPER
	RPM	REVOLUTIONS PER MINUTE
	RLA	RUNNING LOAD AMPERES
	SB	SECURITY BARS
	SM	SHEET METAL
SD	SD	SMOKE DAMPER
SD	SKD	SMOKE DETECTOR
	SD	SPLITTER DAMPER
	SQFT, FT^2~~	SQUARE FEET
	SQIN, IN^2	SQUARE INCHES
	SP	STATIC PRESSURE
	SPD	STATIC PRESSURE DROP
		STEAM TRAP (ALL TYPES)
	STR	STRAINER
	SA	SUPPLY AIR
	SF	SUPPLY FAN
	TCP	TEMPERATURE CONTROL PANEL
	TCV	TEMPERATURE CONTROL VALVE
TS x		TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED
		THERMOMETER
T x	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE
	TSP	TOTAL STATIC PRESSURE
	TYP	TYPICAL
	UG	UNDERGROUND
	UCD	UNDER CUT DOOR
	UON	UNLESS OTHERWISE NOTED
		UNION
	VLV	VALVE
		VALVE IN RISER (TYPE AS INDICATED OR NOTED)
		VALVE IN VALVE BOX
	WPD	WATER PRESSURE DROP
	W	WATTS
	WT	WEIGHT
	WB	WET BULB
	WMS	WIRE MESH SCREEN
	WP	WORKING PRESSURE
		2-WAY CONTROL VALVE
		3-WAY CONTROL VALVE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DUFFUSER.
7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 8' MAXIMUM LENGTH.
8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"□ & 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMODATE THE ROUND DUCT CONNECTION.
11. THERMOSTAT TO BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TOP OF THERMOSTAT), DO NOT INSTALL THERMOSTAT OVER CASEWORK OR SHELVING OVER 24" IN DEPTH & 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_____

MP☐ MD☐ PP☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHP EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ____ AND CONNECTION LEVEL ____ FOR THE PROJECT AND CONDITIONS.

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MCM - RCCUH (PM - DESIGN TEAM) 160132.00 (PROJECT NO.)

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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. DUNN — M 22265 — EXPIRATION DATE — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-2440
AC: _____ FLS: _____
SSS: _____ DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

HVAC Legends and Notes

M001

PERMIT BACKCHECK

AIR CONDITIONING UNIT SCHEDULE

UNIT	SERVES	"CARRIER" MODEL NO. U.N.O.	NOM. TONS	CFM	MIN. O.A. (CFM)	ESP (IN. W.G.)	DX COOLING				GAS HEATING			ELECTRICAL DATA																	NOTES
							SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EVAP. EDB (°F)	EVAP. EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	HX EDB (°F)	VOLT/PH	SUPPLY FAN BHP	SUPPLY FAN FLA	COMPRESSOR QTY	COMPRESSOR RLA	COMPRESSOR LRA	COND. FAN QTY	COND. FAN FLA	COMB. FAN FLA	PWR. EXH. FAN CFM	PWR. EXH. FAN FLA	MCA	MOCP	SEER (EER)	AFUE (%)	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	
AC 1	STUDY LOUNGE 1, OFFICE 1 & 3	48LCD005	4	1400	400	0.6	36.0	45.3	77.9	63.5	50/72	39/56	60.0	460/3	0.34	3.2	1	38.0	5.7	1	1.4	0.25	1050	1.0	13.0	15	16.4	78.0	810	1/M501	3/M601	1 2 3 4 5
AC 2	LIBRARY	48LCD006	5	2000	620	0.6	50.5	59.0	78.1	63.6	50/72	39/56	59.2	460/3	0.73	4.0	1	52.0	7.6	1	1.4	0.25	1050	1.0	15.0	20	16.2	78.0	910	1/M501	2/M602	1 2 3 4 5 6
AC 3	STUDY LOUNGE 2 & 4, OFFICE 2 & 8	48LCD005	4	1400	530	0.6	39.2	46.9	81.8	65.2	50/72	39/56	56.8	460/3	0.65	4.0	1	41.0	6.4	1	1.4	0.25	1050	1.0	13.0	15	16.4	78.0	810	1/M501	3/M601	1 2 3 4 5
AC 4	STUDY LOUNGE 3, OFFICE 4	48LCD005	4	1400	430	0.6	37.7	46.7	80.5	65.0	50/72	39/56	59.3	460/3	0.65	4.0	1	41.0	6.4	1	1.4	0.25	1050	1.0	13.0	15	16.4	78.0	810	1/M501	3/M601	1 2 3 4 5
AC 5	LIBRARY, OFFICE 5, 6 & 7	48LCD005	4	1400	400	0.6	36.0	45.3	77.9	63.5	50/72	39/56	60.0	460/3	0.65	4.0	1	41.0	6.4	1	1.4	0.25	1050	1.0	13.0	15	17.5	78.0	810	1/M501	3/M601	1 2 3 4 5

NOTES:

1. UNITS SELECTED AT 95 DEG. F DB / 68 DEG. F WB SUMMER AMBIENT, 26 DEG. F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES. OPERATING WEIGHT SCHEDULED INCLUDES AC UNIT 100% MODULATING POWER EXHAUST ECONOMIZER, AND ROOF CURB.
2. PROVIDE UNIT WITH 2" MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S).
3. PROVIDE UNIT WITH "MICROMETL" 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, STATIC PRESSURE TRANSMITTER, "BELIMO" LF SERIES ACTUATORS & LOW VOLTAGE INTERFACE STRIP FOR DDC TIE-IN. UNIT SHALL BE WIRED FOR SINGLE POINT POWER CONNECTION THRU AC UNIT. UNIT MCA DOES NOT INCLUDE POWER EXHAUST FAN FLA.
4. PROVIDE UNIT WITH THRU THE BASE GAS/ELEC CONNECTION KIT AND "MASON" SRSC SEISMIC ROOFTOP SPRING CURB, 2" DEFLECTION, 18" TALL, OSHPD #OPA-0207.
5. PROVIDE WITH MANUFACTURER'S "HAIL GUARD" ACCESSORY.
6. INSTALL SMOKE DETECTOR IN SUPPLY AIR DUCT TO SHUT DOWN UNIT UPON SENSING SMOKE. PROVIDED, POWERED & INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV. 26, INSTALLED & CONNECTED TO AC UNIT BY DIV. 23.

DIFFUSER, REGISTER & GRILLE SCHEDULE

SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
CD	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME 3/4" DROP	1240 FRAME 21 - 1-1/4"	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24x24 PANEL	1240 FRAME 23	9000-6P	7500-L	MCD BORDER TYPE 3	SQD-LT
CR	CEILING RETURN WITH 1/2" EGG CRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF
CRL	CEILING RETURN WITH 1/2" EGG CRATE CORE IN 24x24 PANEL FOR T-BAR CEILING	EGC-5TB	CC5D-TBD	61 EC-L	MODEL 50 F BORDER TYPE 3	CRE500-LT
S *	DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, 3/4" SPACING	880 V	V 4004 S	61 DV	300 RS	T54
R & E *	RETURN OR EXHAUST GRILLE WITH 35°OR 45°HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL	T70D
RH & EH	HEAVY DUTY RETURN OR EXHAUST GRILLE WITH 35° OR 45°HORIZONTAL BARS	S 480 H	HDRH	6145 HD	33 RL	T115H-40

NOTES:

1. ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.
2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.
3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
4. COORDINATE DIFFUSER TYPE WITH REFLECTED CEILING PLAN.
5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.
6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.

* ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS

FAN SCHEDULE

UNIT	LOCATION	"GREENHECK" MODEL NO.	CFM	SP (IN. W.G.)	DUTY	STYLE	FAN WHEEL DIA.	RPM	BHP	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
REF 1	RESTROOMS & JANITOR	G-103-VG	490	0.5	E	CA	--	1135	0.09	120/1	35	9/M501	2/M601	1 2 3 4

LEGEND
DUTY: S-SUPPLY, R-RETURN, E-EXHAUST
STYLE: RE-ROOF EXHAUST

NOTES:

1. PROVIDE WITH THERMAL OVERLOAD PROTECTED MOTOR.
2. PROVIDE BACKDRAFT DAMPER.
3. PROVIDE WITH FACTORY SOLID STATE SPEED CONTROLLER.
4. INTERLOCK FAN TO RUN WITH AC-3, BY DIV. 23.

SPLIT SYSTEM AC UNIT SCHEDULE

UNIT	LOCATION	"MITSUBISHI" MODEL NO. (INDOOR UNIT)	CFM	FAN FLA	FLA	MCA	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"MITSUBISHI" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	COMPRESSOR RLA	COMPRESSOR LRA	MCA	MOCP	FAN FLA	VOLT/PH	SEER	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SAC 1	IDF ROOM 18	PKA-12HA	320 TO 425	0.33	--	1.0	208/ 1 PH	29	3/M501	SCU 1	PUY-A12NHA3	12.0	12.0	14.0	13.0	15.0	0.35	208/ 1 PH	15.2	90	7/M501	1/M602	1 2 3 4
SAC 2	ELECTRICAL CLOSET 19	PKA-12HA	320 TO 425	0.33	--	1.0	208/ 1 PH	29	3/M501	SCU 2	PUY-A12NHA3	12.0	12.0	14.0	13.0	15.0	0.35	208/ 1 PH	15.2	90	7/M501	1/M602	1 2 3 4

NOTES:

1. PROVIDE WITH FACTORY FILTERS.
2. PROVIDE WITH FACTORY HARD WIRED THERMOSTAT.
3. PROVIDE WITH WASHABLE FILTER.
4. INDOOR FAN COIL POWERED BY CONDENSING UNIT. REFER TO MFR'S INSTALLATION DATA.

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Mt. Pleasant High School

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CAPITAL ENGINEERING CONSULTANTS, INC.
RANCHO CORDOVA, CALIFORNIA
MCM - RCCUH — PM - DESIGN TEAM
160132.00 — PROJECT NO.

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. DIAZ — M 22866 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-R10
AC: SSS: WD
FLS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

HVAC Schedules

M002

PERMIT BACKCHECK

Project Name:	Mt. Pleasant High School	NRCC-PRF-01-E	Page 1 of 19
Project Address:	1750 S. White Rd San Jose CA 95127	Calculation Date/Time:	10:55, Mon, Sep 12, 2016
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	Mt. Pleasant HS v6_8.cibdx

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	San Jose CA	8.	Standards Version	Compliance2015
2.	CA Zip Code	95127	9.	Compliance Software (version)	EnergyPro 6.8
3.	Climate Zone	4	10.	Building Orientation (deg)	[N] 0 deg
4.	Total Conditioned Floor Area in Scope	6,239 ft²	11.	Permitted Scope of Work	NewEnvelopeAndMechanical
5.	Total Unconditioned Floor Area	0 ft²	12.	Building Type(s)	Nonresidential
6.	Total # of Stories (Habitable Above Grade)	1	13	Gas Type	NaturalGas
7.	Total # of dwelling units	0			

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr) § 140.1

BUILDING COMPLIES

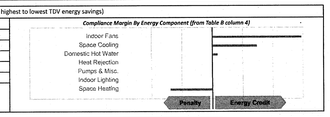
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	4.6	34.1	-29.5	-641.3%
Space Cooling	76.4	44.8	31.6	41.4%
Indoor Fans	106.9	43.5	63.4	59.3%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	7.6	4.3	3.3	43.4%
Indoor Lighting	67.3	67.3	--	0.0%
COMPLIANCE TOTAL	**262.8**	**194.0**	**68.8**	**26.2%**
Receptacle	112.9	112.9	0.0	0.0%
Process	--	--	--	--
Other Lig	--	--	--	--
TOTAL	**375.7**	**306.9**	**68.8**	**18.3%**

Project Name:	Mt. Pleasant High School	NRCC-PRF-01-E	Page 2 of 19
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C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Space Cooling: Check envelope and mechanical
3rd	Domestic Hot Water: Check mechanical
4th	Heat Rejection: Check envelope and mechanical
5th	Pumps & Misc.: Check mechanical
6th	Indoor Lighting: Check lighting
7th	Space Heating: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

The project shows partial compliance, either envelope only or mechanical only, excluding lighting systems. The building must show partial compliance including lighting or full new building compliance or show prescriptive lighting compliance before operation

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

This project includes fenestration that has a U-Factor greater than 1.028 Btu/h-ft2F, which is currently not supported by the simulation software. The U factor for these fenestrations is modeled and reported in Table J as 1.03 Btu/h-ft2F which may not match the design documents. Please verify with the design team on the actual performance of these fenestration(s).

E. HERS VERIFICATION

Duct leakage verification required. See Table P - System Distribution Summary

F. ADDITIONAL REMARKS

None Provided

Project Name:	Mt. Pleasant High School	NRCC-PRF-01-E	Page 3 of 19
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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path		Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH- DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☐	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☒	NA		
Covered Process: Commercial Kitchens	☐	Performance	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performance	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E

The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.

Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Commissioning: §120.8 Simple Systems	NRCC-CXR-01 / 02 / 03 / 05-E
☐	☒	Complex Systems	NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Covered Process: §120.6	NRCC-PRC-01-E
☐	☒	Parking Garage	NRCC-PRC-02-E
☐	☒	Commercial Refrigeration	NRCC-PRC-05-E
☐	☒	Warehouse Refrigeration	NRCC-PRC-06/07/08-E
☐	☒	Compressed Air	NRCC-PRC-10-E
☐	☒	Process Boilers	NRCC-PRC-11-E

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☒ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☒ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☐ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	6,239 ft²	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	0 ft²	0 ft²	00.0%	☐	☐
East Wall	766 ft²	222 ft²	28.9%	☐	☐
South Wall	1,062 ft²	369 ft²	34.7%	☐	☐
West Wall	1,706 ft²	632 ft²	37.1%	☐	☐
Total:	**3,534 ft²**	**1,223 ft²**	**34.6%**	☐	☐
Roof	6,339 ft²	0 ft²	00.0%	☐	☐

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J. FENESTRATION ASSEMBLY SUMMARY § 110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-Factor	7. Overall SHGC	8. Overall VT	9. Adjusted	Confirmed Pass	Confirmed Fail
(1) StoneFront Glazing	VerticalFenestration	DefaultPerformance	Sitebuilt	730	1.03	0.83	0.77	N	☐	☐
(N) PPG SOLARBAN 70XL (2) Clear	VerticalFenestration	NFRCRated	Sitebuilt	312	0.49	0.38	0.50	N	☐	☐
Roll UP Door Laminated Glazing	VerticalFenestration	NFRCRated	Sitebuilt	181	0.73	0.55	0.50	N	☐	☐

[1] *Newly Installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N – New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	Adjusted	Confirmed Pass	Confirmed Fail
Slab On Grade9	UndergroundFloor	6339	NA	0	NA	F-Factor: 0.730	N	☐	☐
R-30 Metal Deck Roof11	Roof	6339	NA	0	NA	U-Factor: 0.038	N	☐	☐
E CMU-Wall13	ExteriorWall	3534	NA	0	NA	U-Factor: 0.281	N	☐	☐

[1] *Status: N – New, A – Altered, E – Existing*

L. ROOFING PRODUCT SUMMARY § 140.3

1. Product Type	2. Product Density (lb/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Confirmed Pass	Confirmed Fail
R-30 Metal Deck Roof11	50.1	0.75	0.80	Not Provided	Yes	CRRC Prod. ID: R-30 Metal Deck Roof	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1. Equip Name	2. Equip Type	3. System Type (Simple [2] or Complex [3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency: Cooling	9. Efficiency: Heating	10. Acceptance Testing Required? (Y/N) [4]	11. Status [4]	Confirmed Pass	Confirmed Fail
AC-1	SZAC (Packaged3Phase)	Simple	1	72	No	0	46	SEER-17.5 / EER-13.1	AFUE-81.0	Yes	N	☐	☐
AC-2	SZAC (Packaged3Phase)	Simple	1	72	No	0	60	SEER-14.0 / EER-12.2	AFUE-81.0	Yes	N	☐	☐
AC-3	SZAC (Packaged3Phase)	Simple	1	72	No	0	46	SEER-17.5 / EER-13.1	AFUE-81.0	Yes	N	☐	☐
AC-4	SZAC (Packaged3Phase)	Simple	1	72	No	0	46	SEER-17.5 / EER-13.1	AFUE-81.0	Yes	N	☐	☐
AC-5	SZAC (Packaged3Phase)	Simple	1	72	No	0	46	SEER-17.5 / EER-13.1	AFUE-81.0	Yes	N	☐	☐

Wet System Equipment [1] / Pumps

12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status [4]	Confirmed Pass	Confirmed Fail
Takagi T-H32	Instantaneous	1	1	199	EF: 0.950	NA	NA	NA	NA	NA	No	N	☐	☐

[1] *Dry System Equipment includes furnaces, air handling units, heat pumps, etc.*
[2] *Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.*
[3] *Simple Systems must complete NRCC-CXR-03-E commissioning design review form*
[4] *Complex Systems must complete NRCC-CXR-04-E commissioning design review form*
[5] *A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS*
[6] *Status: N – New, A – Altered, E – Existing*

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation) No

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Mt. Pleasant High School

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San Jose, CA 95127

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CAPITAL ENGINEERING CONSULTANTS, INC.
RANCHO CORDOVA, CALIFORNIA

MCM - RCCJJH PM - DESIGN TEAM | 160132.00 PROJECT NO.

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

REGISTERED PROFESSIONAL ENGINEER THOMAS A. DUDEK M 22852 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # 43-H10
AC: FLS:
SSS: WJD DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

TITLE 24 Compliance Forms

M003

PERMIT BACKCHECK

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N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] — § 140.4 — Confirmed

1.	2.	3.				4.					5.	Confirmed	
Equip Name	Outside Air	Supply Fan				Return Fan					Economizer Type (if present)	Pass	Fail
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control		
AC-1	253	1400	0.350	0.350	0.79	ConstantVolume	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-2	280	2000	0.750	0.750	1.43	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
AC-3	276	1400	0.350	0.350	0.79	ConstantVolume	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-4	285	1400	0.350	0.350	0.79	ConstantVolume	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-5	315	1400	0.350	0.350	0.79	ConstantVolume	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐

[1] *Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section*

O. EQUIPMENT CONTROLS — § 120.2 — Confirmed

1.	2.	3.	Pass	Fail
Equip Name	Equip Type	Controls		
AC-1	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start	☐	☐
AC-2	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start	☐	☐
AC-3	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start	☐	☐
AC-4	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start	☐	☐

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O. EQUIPMENT CONTROLS — § 120.2 — Confirmed

1.	2.	3.	Pass	Fail
Equip Name	Equip Type	Controls		
AC-5	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start	☐	☐
Undefined Plant1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY — § 120.4/ § 140.4(l)

		Dry System Distribution				Confirmed	
1.	2.	3.	4.	5.		Pass	Fail
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage will be verified per NA1 and NA2	Ducts			
				Insulation R-Value	Location		
AC-1	SZAC	Yes	Yes	8	Unconditioned	☐	☐
AC-2	SZAC	Yes	Yes	8	Unconditioned	☐	☐
AC-3	SZAC	Yes	Yes	8	Unconditioned	☐	☐
AC-4	SZAC	Yes	Yes	8	Unconditioned	☐	☐
AC-5	SZAC	Yes	Yes	8	Unconditioned	☐	☐

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)

This Section Does Not Apply

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] — § 130.0

This Section Does Not Apply

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

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S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES — § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS — § 140.9

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS — § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS — § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
1-Office/Study	150	0	150	1471.5
4-Office/Study	150	1230.25	150	1966.5
6-Office/Study	150	1500	150	147.25
8-Office/Study	150	0	150	1118.5

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	--	--	15.7	115.0	-99.3
Space Cooling	13.2	5.1	8.1	--	--	--
Indoor Fans	29.3	12.0	17.3	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	29.0	16.5	12.5
Indoor Lighting	16.5	16.5	0.0	--	--	--
COMPLIANCE TOTAL	**59.0**	**33.6**	**25.4**	**44.7**	**131.5**	**-86.8**

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Receptacle	27.2	27.2	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
TOTAL	**86.2**	**60.8**	**25.4**	**44.7**	**131.5**	**-86.8**

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT — § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Aaron Wintersmith	
Company: Capital Engineering Consultants, Inc.	Signature:
Address: 11020 Sun Center Dr	Signature Date: 02-14-2017
City/State/Zip: Rancho Cordova CA 95670	CEA Identification (if applicable):
Phone: 916-851-3500	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name:	**Signature:**
Company: Gould Evans	
Address: 55 Grady St	Date Signed:
City/State/Zip: San Francisco CA 94103	Declaration Statement Type:
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Responsible Lighting Designer Name:	**Signature: NOT IN SCOPE**
Company:	
Address:	Date Signed:
City/State/Zip:	Declaration Statement Type:
Phone:	Title: License #:
Responsible Mechanical Designer Name: - Thomas A Duval	**Signature:**
Company: Capital Engineering	
Address: 11020 Sun Center Dr #100	Date Signed: 02-14-2017
City/State/Zip: Rancho Cordova CA 95670	Declaration Statement Type:
Phone: 916-851-3500	Title: License #: M22836

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS — Confirmed

1.	2.	3.	4.	Pass	Fail
Surface Name	Surface Type	Description of Assembly Layers	Notes		
Slab On Grade9	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
R-30 Metal Deck Roof11	Roof	Built-up roofing - 3/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Concrete - 140 lb/ft3 - 4 in.		☐	☐
8 CMU Wall13	ExteriorWall	Concrete - Part Grouted and Empty - 125 lb/ft3 - 8 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

This Section Does Not Apply

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2013-NRCC-MCH-03-E)* — Confirmed

1. DESIGN AIR FLOWS									2. VENTILATION (§ 120.1)										Confirmed	
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY AIR FLOW FRACTION	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	MAXIMUM REHEAT COIL CAPACITY	DISC. CONTROL (VAV)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENTI PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQUIRED VENT AIR FLOW (CFM)	DESIGN OUTDOOR AIR FLOW (CFM)	TRANSFER AIR FLOW (CFM)	DCV CONTROL	Pass	Fail
1-Office/Study	AC-1	257	NA	NA	NA	NA	NA	N	AC-1	170	NA	1	30.0	26	26	NA	N	☐	☐
2-Study Lounge	AC-1	1,143	NA	NA	NA	NA	NA	N	AC-1	757	NA	15	15.0	227	227	NA	N	☐	☐
3-Library	AC-2	2,000	NA	NA	NA	NA	NA	N	AC-2	1,864	NA	19	15.0	280	280	NA	N	☐	☐
4-Office/Study	AC-3	547	NA	NA	NA	NA	NA	N	AC-3	446	NA	2	30.0	67	67	NA	N	☐	☐
5-Study Lounge 4	AC-3	853	NA	NA	NA	NA	NA	N	AC-3	696	NA	14	15.0	209	209	NA	N	☐	☐
6-Office/Study	AC-4	186	NA	NA	NA	NA	NA	N	AC-4	135	NA	1	30.0	20	20	NA	N	☐	☐
7-Study Loung 3	AC-4	1,214	NA	NA	NA	NA	NA	N	AC-4	882	NA	18	15.0	265	265	NA	N	☐	☐
8-Office/Study	AC-5	522	NA	NA	NA	NA	NA	N	AC-5	481	NA	2	30.0	72	72	NA	N	☐	☐
9-Study Lounge 3 - East	AC-5	878	NA	NA	NA	NA	NA	N	AC-5	808	NA	16	15.0	242	242	NA	N	☐	☐
									TOTAL	6,239		NA		NA	NA	NA		☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4 — Confirmed

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
Study Lounge15-TRM	Uncontrolled	1	NA	NA	NA	2-Study Lounge	1143	NA	NA	NA	NA	☐	☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4 — Confirmed

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
Office/Study5-TRM	Uncontrolled	1	NA	NA	NA	1-Office/Study	257	NA	NA	NA	NA	☐	☐	☐
Library25-TRM	Uncontrolled	1	NA	NA	NA	3-Library	2000	NA	NA	NA	NA	☐	☐	☐
Study Lounge 447-TRM	Uncontrolled	1	NA	NA	NA	5-Study Lounge 4	853	NA	NA	NA	NA	☐	☐	☐
Office/Study32-TRM	Uncontrolled	1	NA	NA	NA	4-Office/Study	547	NA	NA	NA	NA	☐	☐	☐
Study Loung 358-TRM	Uncontrolled	1	NA	NA	NA	7-Study Loung 3	1214	NA	NA	NA	NA	☐	☐	☐
Office/Study53-TRM	Uncontrolled	1	NA	NA	NA	6-Office/Study	186	NA	NA	NA	NA	☐	☐	☐
Study Lounge 3 - East73-TRM	Uncontrolled	1	NA	NA	NA	9-Study Lounge 3 - East	878	NA	NA	NA	NA	☐	☐	☐
Office/Study66-TRM	Uncontrolled	1	NA	NA	NA	8-Office/Study	522	NA	NA	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)* — § 110.3 — Confirmed

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	Pass	Fail
DHW Name	Fuel	Type	Qty	Distribution Type	Rated Input kBtuh	Efficiency	Pilot Energy (Btu/h)	External Tank Insulation	Vol	Standby Loss	Vol. of Suppl. Storage Tank		
Takagi T-H32	Gas	Instantaneous	1	Nonrecirculating	199	EF: 0.950	0	NA	1	0	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2013-NRCC-MCH-01-E)* — § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Intermittent Controls	DCV	Supply Fan VAV	Valve Leakage	Supply Air Temp. Reset	HyC Variable Flow Control	Auto Demand Shed Control	FDD for PH Units	Auto Setback & Zone Temp.	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Economizer Master Reset Controller	ECMS	Pass	Fail
Undefined Plant1 - SHW	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AC-1	1	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AC-2	1	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AC-3	1	X	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AC-4	1	X	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AC-5	1	X	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — § 140.6

This Section Does Not Apply

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) — § 130.1

This Section Does Not Apply

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San Jose, CA 95127

owner:
East Side Union High School District
Facilities & Planning Division
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San Jose CA 95133
United States
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408.347.5115 fax

architect:
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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. DUVAL — M 22836 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43 H10
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

TITLE 24 Compliance Forms

M004

PERMIT BACKCHECK

Project Name:	Mt. Pleasant High School	NRCC-PRF-01-E	Page 19 of 19
Project Address:	1750 S. White Rd San Jose CA 95127	Calculation Date/Time:	10:55, Mon, Sep 12, 2016
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	Mt. Pleasant HS v6_8.cibdx

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
This Section Does Not Apply	

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)	§ 140.6-D
This Section Does Not Apply	

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)	§ 140.6(c) 3H
This Section Does Not Apply	

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)
This Section Does Not Apply

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)
This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)	§ 130.4
This Section Does Not Apply	

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL	ENV-MM
Project Name: Mt. Pleasant High School	Date: 9/12/2016
DESCRIPTION	
Building Envelope Measures:	
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft ² of window area, 0.3 cfm/ft ² of door area for residential doors, 0.3 cfm/ft ² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft ² for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

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REGISTERED PROFESSIONAL ENGINEER
THOMAS A. DURANTE
M 22
EXPIRES: 06/30/18
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: SSS:
FLS:
DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

TITLE 24 Compliance Forms

M005

PERMIT BACKCHECK

DEMOLITION NOTES

1. DISCONNECT ELECTRICAL, GAS, CONDENSATE DRAIN LINES AND REMOVE ROOF TOP AIR CONDITIONING UNITS AND ALL ASSOCIATED DUCTWORK.
2. DISCONNECT ELECTRICAL AND REMOVE ROOF TOP EXHAUST FAN AND ALL ASSOCIATED DUCTWORK.
3. EXISTING ROOF PENETRATION TO BE CLOSED AND SEALED.
4. EXISTING ROOF PENETRATION TO BE REUSED.

1 MD101 **HVAC DEMOLITION PLAN - LEVEL 1**
SCALE: 1/4" = 1'-0"

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THOMAS A. QUINN — REGISTERED PROFESSIONAL ENGINEER — M 22651 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

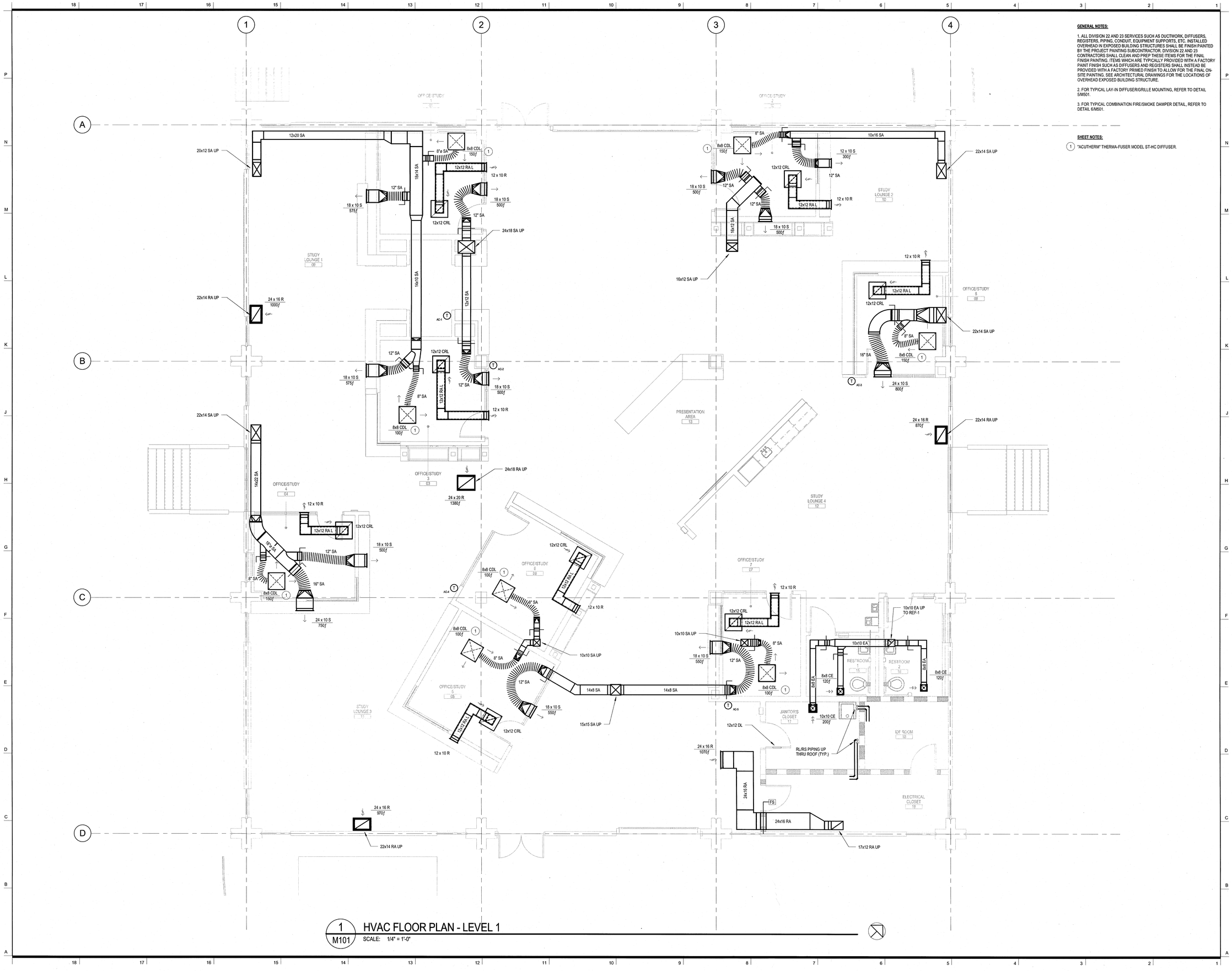
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

HVAC Demolition Plan - Level 1

MD101

PERMIT BACKCHECK



GENERAL NOTES:

1. ALL DIVISION 22 AND 23 SERVICES SUCH AS DUCTWORK, DIFFUSERS, REGISTERS, PIPING, CONDUIT, EQUIPMENT SUPPORTS, ETC. INSTALLED OVERHEAD IN EXPOSED BUILDING STRUCTURES SHALL BE FINISH PAINTED BY THE PROJECT PAINTING SUBCONTRACTOR. DIVISION 22 AND 23 CONTRACTORS SHALL CLEAN AND PREP THESE ITEMS FOR THE FINAL FINISH PAINTING. ITEMS WHICH ARE TYPICALLY PROVIDED WITH A FACTORY PAINT FINISH SUCH AS DIFFUSERS AND REGISTERS SHALL INSTEAD BE PROVIDED WITH A FACTORY PRIMED FINISH TO ALLOW FOR THE FINAL ON-SITE PAINTING. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF OVERHEAD EXPOSED BUILDING STRUCTURE.

2. FOR TYPICAL LAY-IN DIFFUSER/GRILLE MOUNTING, REFER TO DETAIL 5/M501.

3. FOR TYPICAL COMBINATION FIRE/SMOKE DAMPER DETAIL, REFER TO DETAIL 6/M501.

SHEET NOTES:

1. "ACUTHERM" THERMA-FUSER MODEL ST-HC DIFFUSER.

1 / M101 HVAC FLOOR PLAN - LEVEL 1

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

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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. DUNN — M 22381 — EXPIRES 06-30-18 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

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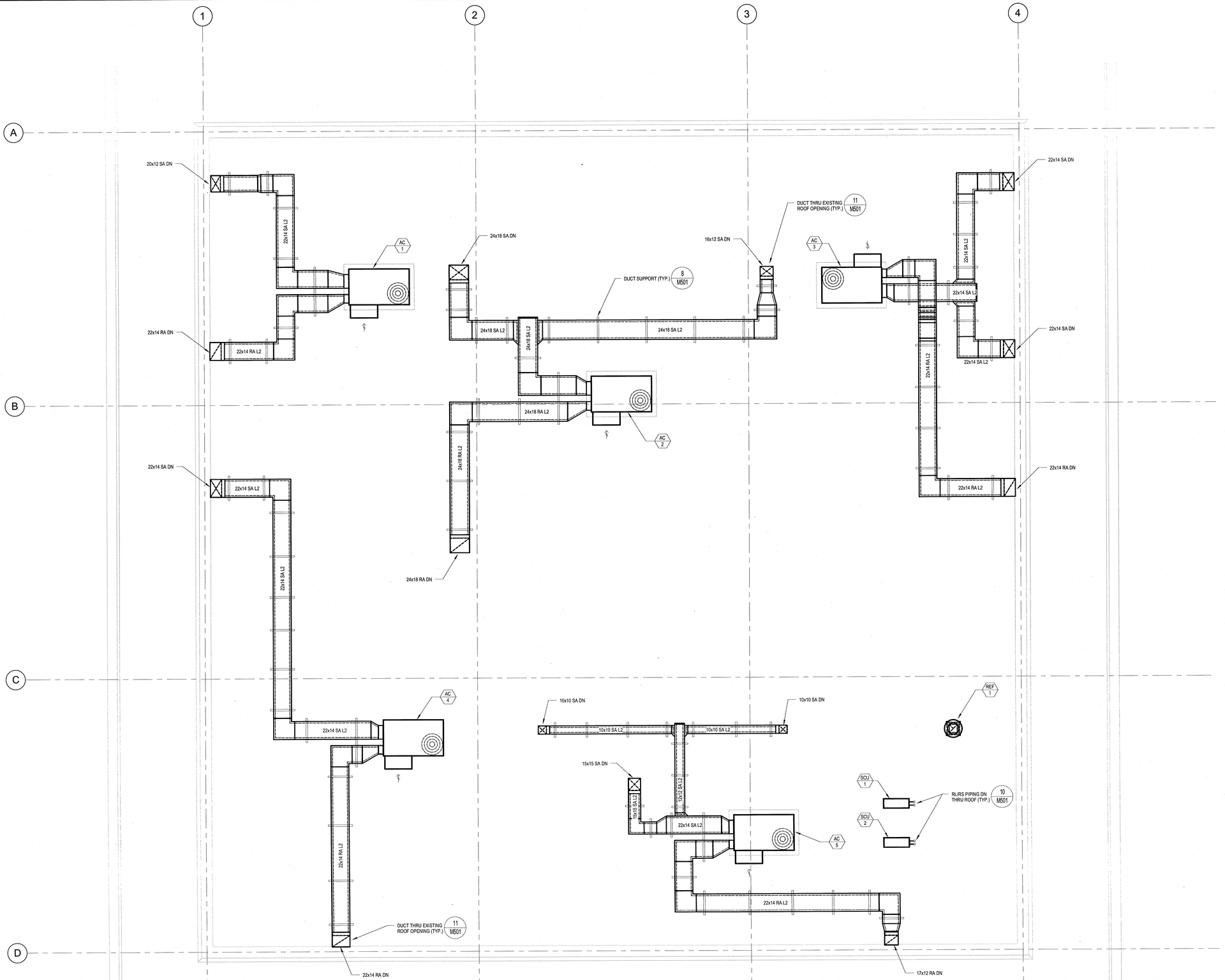
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-C1 10
AC: FLS:
SSS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

HVAC Floor Plan - Level 1

M101

PERMIT BACKCHECK



1 M102 HVAC ROOF PLAN
SCALE: 1/4" = 1'-0"

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THOMAS A. DURHAM — No. M 23[illegible] — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

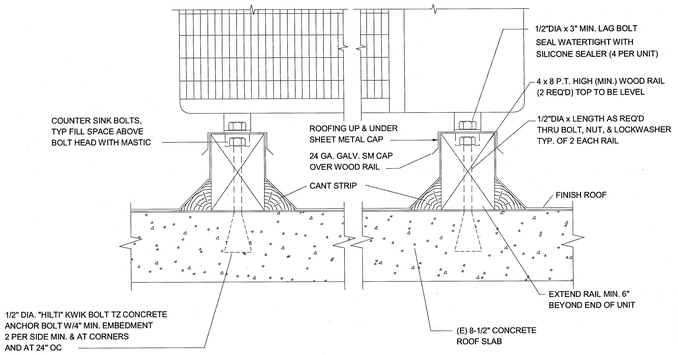
DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: FLS:
SSS: VJO DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

HVAC Roof Plan

M102

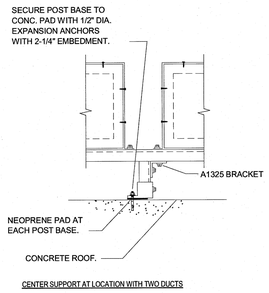
PERMIT BACKCHECK



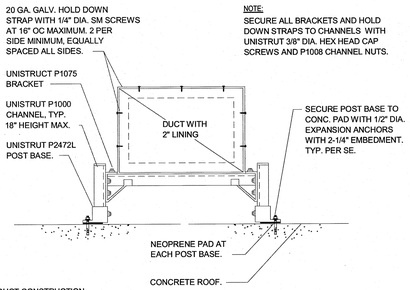
SPLIT SYSTEM OUTDOOR UNIT MOUNTING

SCALE : NONE

7 / M501



CENTER SUPPORT AT LOCATION WITH TWO DUCTS



NOTE:
SECURE ALL BRACKETS AND HOLD DOWN STRAPS TO CHANNELS WITH UNISTRUT 3/8" DIA. HEX HEAD CAP SCREWS AND P1008 CHANNEL NUTS.

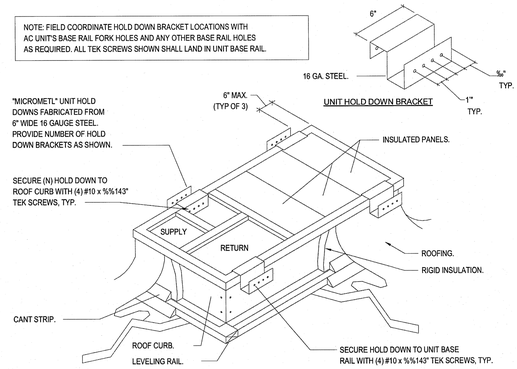
NOTE:
REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR SPACING OF SUPPORTS. DO NOT EXCEED 5' SPACING.

DUCT SUPPORT AT ROOF

SCALE : NONE

8 / M501

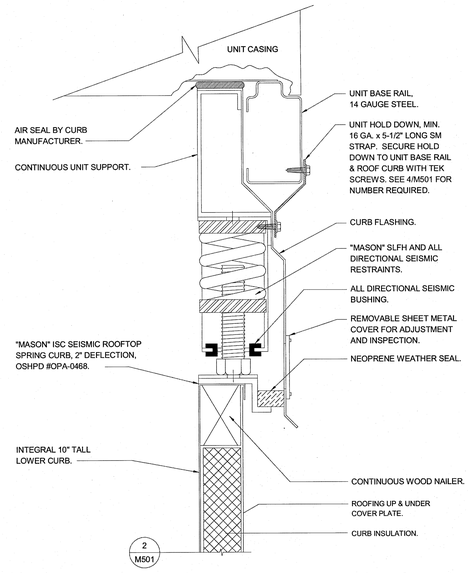
NOTE: FIELD COORDINATE HOLD DOWN BRACKET LOCATIONS WITH AC UNIT'S BASE RAIL FORK HOLES AND ANY OTHER BASE RAIL HOLES AS REQUIRED. ALL TEK SCREWS SHOWN SHALL LAND IN UNIT BASE RAIL.



HOLD DOWN BRACKET MOUNTING

SCALE : NONE

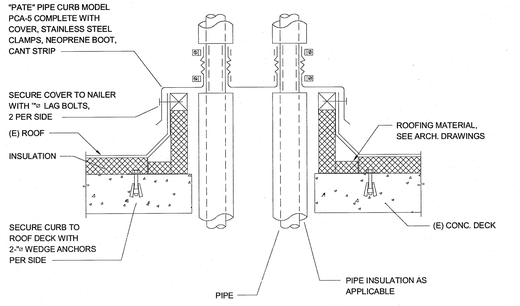
4 / M501



AC UNIT TO SPRING CURB MOUNTING

SCALE : NONE

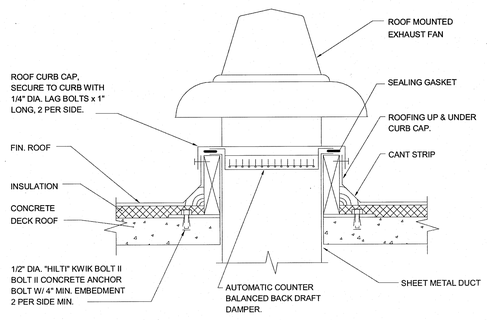
1 / M501



PIPE THROUGH ROOF DETAIL

SCALE : NONE

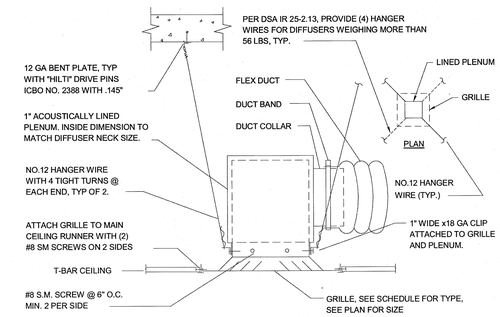
10 / M501



REF MOUNTING DETAIL

SCALE : NONE

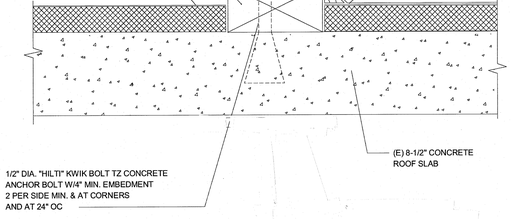
9 / M501



TYP. LAY-IN DIFFUSER/GRILLE MOUNTING

SCALE : NONE

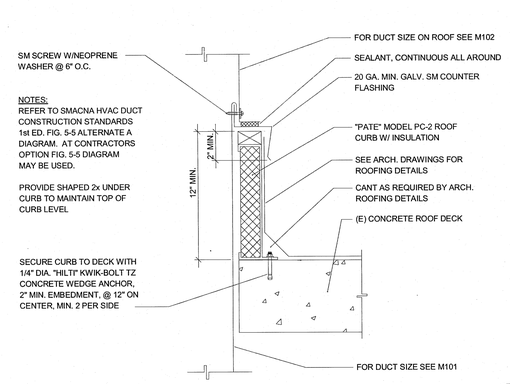
5 / M501



CURB TO CONCRETE MTG DETAIL

SCALE : NONE

2 / M501



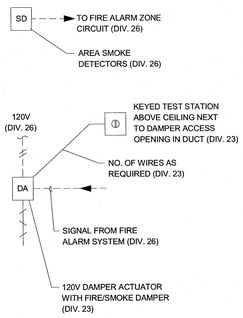
NOTES:
REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS 1st ED. FIG. 5-5 ALTERNATE A DIAGRAM. AT CONTRACTORS OPTION FIG. 5-5 DIAGRAM MAY BE USED.

PROVIDE SHAPED 2x UNDER CURB TO MAINTAIN TOP OF CURB LEVEL

DUCT THRU ROOF DETAIL

SCALE : NONE

11 / M501



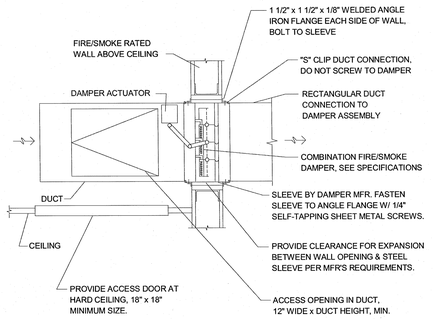
WIRING DIAGRAM

CSFM LISTING NO. 3235-0245:0126

FIRE DAMPERS SHALL BE LISTED AND CALIFORNIA STATE FIRE MARSHAL APPROVED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

NOTES :

1. INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE WALL AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.
2. WIRE TO CLOSE DAMPER UPON SENSING OF SMOKE BY THE TOTAL COVERAGE SMOKE DETECTION SYSTEM VIA A SIGNAL FROM THE FIRE ALARM SYSTEM. FOR WIRING DIAGRAM, SEE LEFT. DAMPER CLOSURE SHALL SHUT DOWN IT'S ASSOCIATED SUPPLY FAN. PROVIDE ALL WIRING, CONDUITS, RELAYS, ETC. REQUIRED TO RENDER SYSTEM COMPLETE.
3. DAMPER ACTUATOR SHALL BE A POWER OPEN-FAIL CLOSE TYPE.

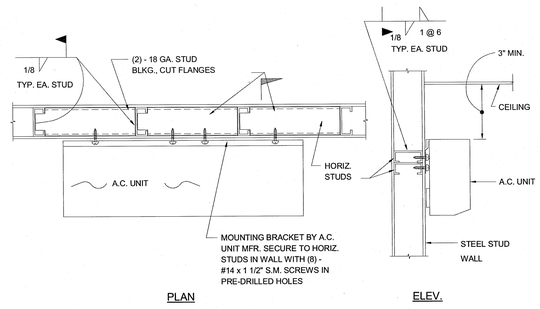


MOUNTING DETAIL

COMBINATION FIRE/SMOKE DAMPER THRU WALL MOUNTING

SCALE : NONE

6 / M501



PLAN ELEV.

INDOOR F.C. UNIT MTG. @ MTL STUDS

SCALE : NONE

3 / M501

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MCM - RCC/JH	160132.00
PM - DESIGN TEAM	PROJECT NO.

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REGISTERED PROFESSIONAL ENGINEER
THOMAS A. DUNN
M 22618
Exp. 6-30-18
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H10
AC: SSS: NO
FLS: DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2017
Sheet:	

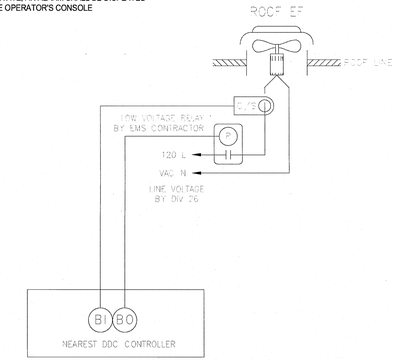
HVAC Details

M501

PERMIT BACKCHECK

EXHAUST FAN OPERATION

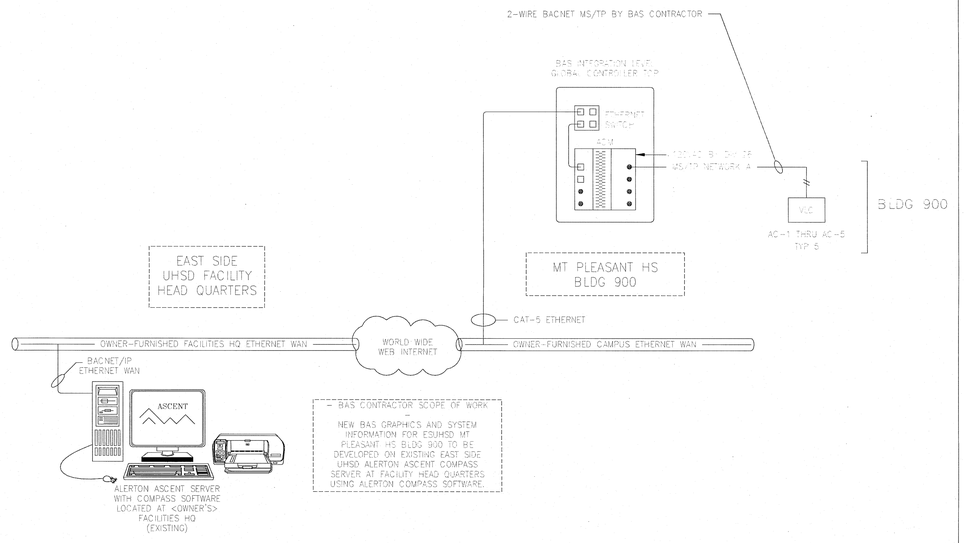
1. THE EXHAUST FAN WILL BE COMMANDED BY THE EMS TO OPERATE SIMULTANEOUSLY WITH AC-3
2. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED:
   a. STATUS OF EXHAUST FAN
3. ALARM - IF THE EXHAUST FAN FAN RUNS WHILE COMMANDED BY THE EMS TO THE OFF STATE OR IF IT FAILS TO RUN WHILE COMMANDED TO THE ON STATE, AN ALARM SHALL BE DISPLAYED AND ANNUNCIATED AT THE OPERATOR'S CONSOLE



REF-1 CONTROL DETAIL

SCALE : NONE

2 / M601



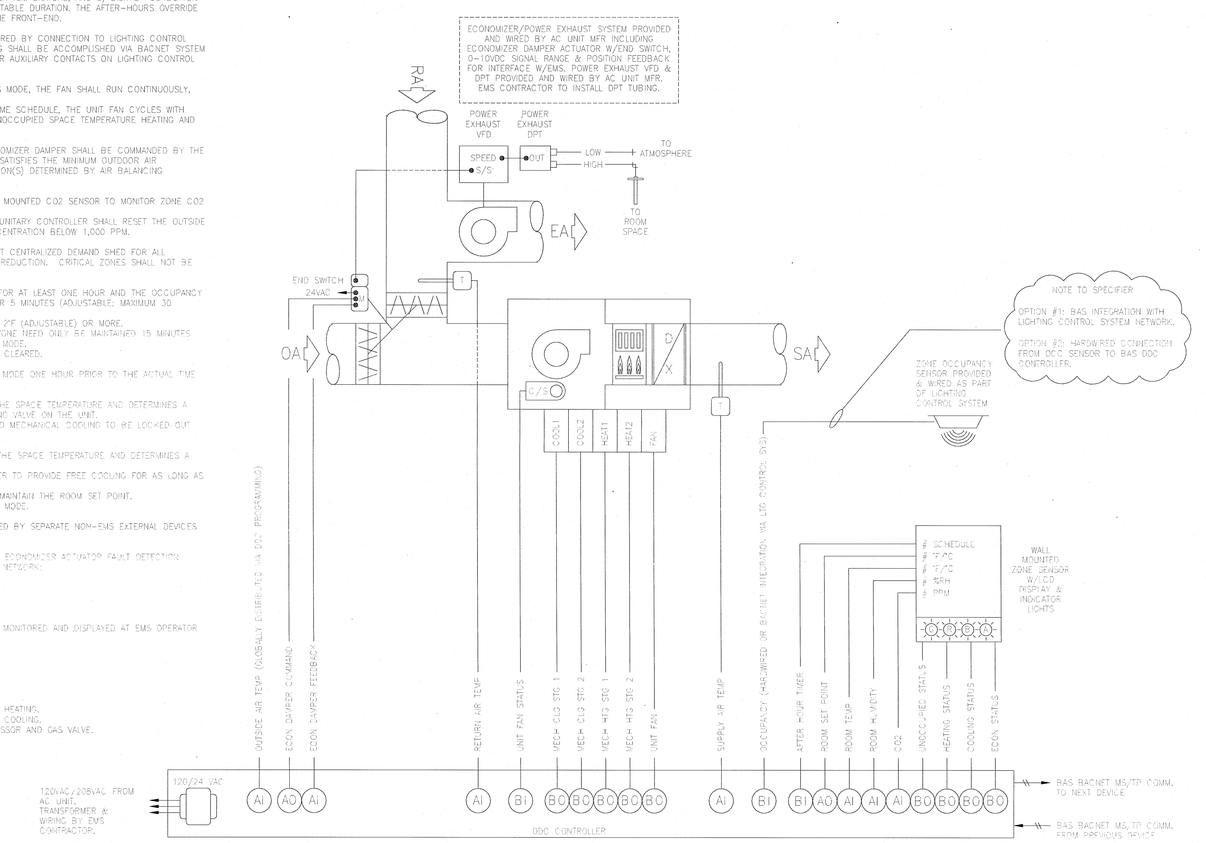
BAS SYSTEM - NETWORK ARCHITECTURE

SCALE : NONE

1 / M601

PACKAGED AC UNIT WITH ECONOMIZER, POWER EXHAUST, DEMAND CONTROL VENTILATION, ZONE OCCUPANCY MONITORING

1. SYSTEM OVERVIEW
a. EACH AC UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
b. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL RELATIVE HUMIDITY SENSOR AND CO2 SENSOR.
c. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) DIGITAL PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM HUMIDITY, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) DIGITAL PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.
2. OCCUPANCY/VACANCY MONITORING
a. ZONE OCCUPANCY AND VACANCY WILL BE ACTIVELY MONITORED BY CONNECTION TO LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S). IF AVAILABLE, MONITORING SHALL BE ACCOMPLISHED VIA BACNET SYSTEM INTEGRATION. OTHERWISE, BAS CONTRACTOR SHALL MONITOR AUXILIARY CONTACTS ON LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S).
3. UNIT FAN OPERATION
a. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTERHOURS MODE, THE FAN SHALL RUN CONTINUOUSLY, UNLESS VACANT MODE HAS BEEN TRIGGERED.
b. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.
4. MINIMUM OUTDOOR AIR VENTILATION
a. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE ECONOMIZER DAMPER SHALL BE COMMANDED BY THE EMS UNITARY CONTROLLER TO MAINTAIN A POSITION WHICH SATISFIES THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR.
5. DEMAND CONTROL VENTILATION
a. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED CO2 SENSOR TO MONITOR ZONE CO2 CONCENTRATION.
b. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE EMS UNITARY CONTROLLER SHALL RESET THE OUTSIDE AIR DAMPER MINIMUM POSITION TO MAINTAIN THE CO2 CONCENTRATION BELOW 1,000 PPM.
6. AUTOMATIC DEMAND REDUCTION CONTROLS
a. EMS SHALL BE PROGRAMMED WITH CAPABILITY TO IMPLEMENT CENTRALIZED DEMAND SHED FOR ALL NON-CRITICAL ZONES UPON CALL FOR AUTOMATIC DEMAND REDUCTION. CRITICAL ZONES SHALL NOT BE IMPACTED BY DEMAND SHED CONSERVATION MEASURES.
7. VACANT MODE CONTROL
a. WHEN THE ZONE HAS BEEN SCHEDULED FOR OCCUPANCY FOR AT LEAST ONE HOUR AND THE OCCUPANCY SENSOR HAS CONFIRMED THAT ZONE HAS BEEN VACANT FOR 5 MINUTES (ADJUSTABLE; MAXIMUM 30 MINUTES), ZONE SHALL BE PLACED INTO VACANT MODE.
b. RESET COOLING AND HEATING SETPOINTS UP AND DOWN BY 2°F (ADJUSTABLE) OR MORE.
c. MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS IN THE ZONE NEED ONLY BE MAINTAINED 15 MINUTES OUT OF EVERY 60 MINUTES WHILE THE ZONE IS IN VACANT MODE.
d. UPON DETECTION OF OCCUPANCY, VACANT MODE SHALL BE CLEARED.
8. ZONE PRE-OCCUPANCY PURGE
a. THE EMS SHALL SCHEDULE THE ZONE TO BE IN OCCUPIED MODE ONE HOUR PRIOR TO THE ACTUAL TIME OF ANTICIPATED OCCUPANCY.
9. HEATING OPERATION
a. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.
b. ECONOMIZER TO BE COMMANDED TO MIN CFM SETPOINT AND MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE.
10. COOLING OPERATION
a. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
b. THE FIRST STAGE OF COOLING WILL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.
c. THE SECOND STAGE WILL ENABLE THE COMPRESSOR(S) TO MAINTAIN THE ROOM SET POINT.
d. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.
11. POWER EXHAUST
a. ALL POWER EXHAUST FAN OPERATIONS SHALL BE CONTROLLED BY SEPARATE NON-EMS EXTERNAL DEVICES AS PROVIDED BY THE AC UNIT MANUFACTURER.
12. FAULT DETECTION DIAGNOSTICS
a. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING ECONOMIZER ACTUATOR FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK:
i. TEMPERATURE SENSOR PLAUSIBILITY FAULT
ii. ECONOMIZER NOT ECONOMIZING WHEN ENABLED
iii. ECONOMIZER ECONOMIZING WHEN DISABLED
iv. ECONOMIZER DAMPER MODULATION FAILURE
v. EXCESS OUTDOOR AIR
13. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:
a. SUPPLY AIR TEMPERATURE.
b. ROOM TEMPERATURE.
c. ROOM HUMIDITY.
d. ROOM CO2 CONCENTRATION.
e. ROOM OCCUPANCY STATUS.
f. CURRENT MODE (HEATING/COOLING/FAN).
g. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.
h. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN COOLING.
i. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.
j. RUN TIME METERS ON FAN, COMPRESSOR, AND HEAT.
k. FAN STATUS THRU CURRENT SWITCH.
l. ECONOMIZER ACTUATOR FEEDBACK STATUS.



AC-1, 3, 4 & 5 CONTROL DIAGRAM

SCALE : NONE

3 / M601

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REGISTERED PROFESSIONAL ENGINEER THOMAS A. DUNN M 22611 EXPIRES 06/30/18 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-H110
AC: FLS:
SSS: VJD DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2017
Sheet:

HVAC Control Diagrams

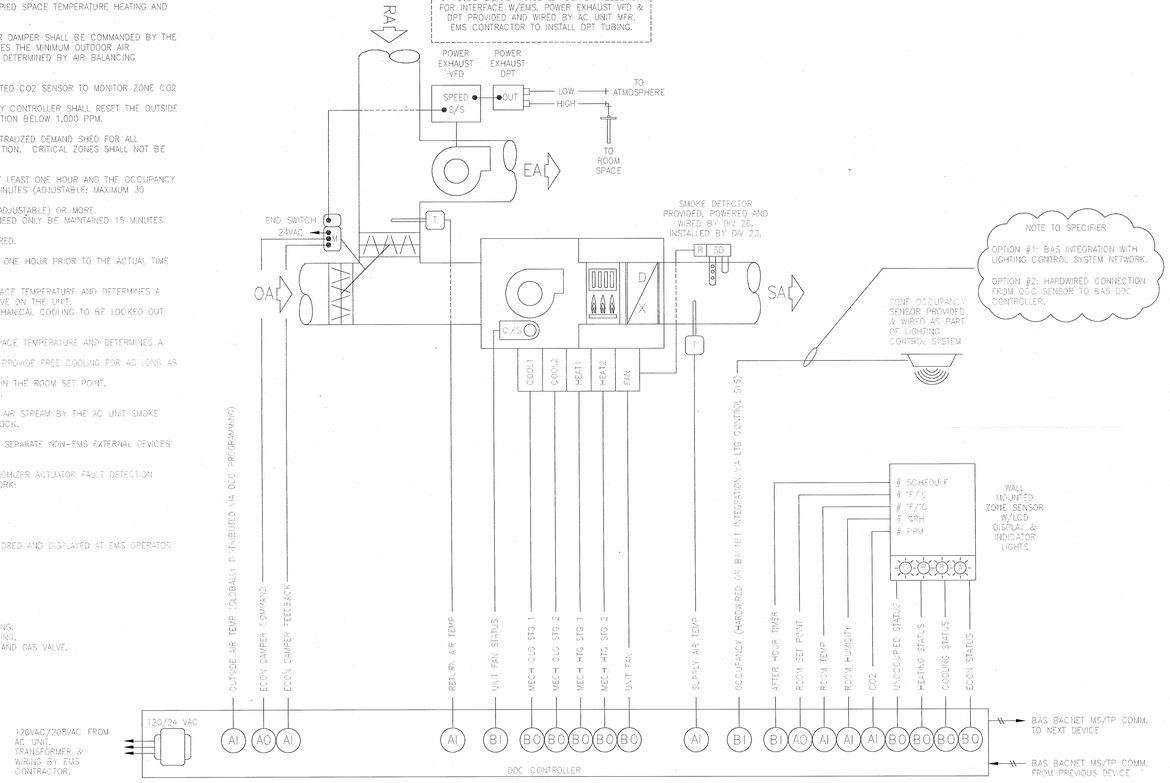
M601

PERMIT BACKCHECK

PACKAGED AC UNIT WITH ECONOMIZER, SMOKE DETECTOR, POWER EXHAUST, DEMAND CONTROL VENTILATION & ZONE OCCUPANCY MONITORING

1. SYSTEM OVERVIEW
a. EACH AC UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
b. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL RELATIVE HUMIDITY SENSOR AND CO2 SENSOR.
c. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) DIGITAL PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM HUMIDITY, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) DIGITAL PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.
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3. UNIT FAN OPERATION
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b. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.
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5. DEMAND CONTROL VENTILATION
a. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED CO2 SENSOR TO MONITOR ZONE CO2 CONCENTRATION.
b. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE EMS UNITARY CONTROLLER SHALL RESET THE OUTSIDE AIR DAMPER MINIMUM POSITION TO MAINTAIN THE CO2 CONCENTRATION BELOW 1,000 PPM.
6. AUTOMATIC DEMAND REDUCTION CONTROLS
a. EMS SHALL BE PROGRAMMED WITH CAPABILITY TO IMPLEMENT CENTRALIZED DEMAND SHED FOR ALL NON-CRITICAL ZONES UPON CALL FOR AUTOMATIC DEMAND REDUCTION. CRITICAL ZONES SHALL NOT BE IMPACTED BY DEMAND SHED CONSERVATION MEASURES.
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b. RESET COOLING AND HEATING SETPOINTS UP AND DOWN BY 2°F (ADJUSTABLE) OR MORE.
c. MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS IN THE ZONE NEED ONLY BE MAINTAINED 15 MINUTES OUT OF EVERY 60 MINUTES WHILE THE ZONE IS IN VACANT MODE.
d. UPON DETECTION OF OCCUPANCY, VACANT MODE SHALL BE CLEARED.
8. ZONE PRE-OCCUPANCY PURGE
a. THE EMS SHALL SCHEDULE THE ZONE TO BE IN OCCUPIED MODE ONE HOUR PRIOR TO THE ACTUAL TIME OF ANTICIPATED OCCUPANCY.
9. HEATING OPERATION
a. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.
b. ECONOMIZER TO BE COMMANDED TO MIN CFM SETPOINT AND MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE.
10. COOLING OPERATION
a. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
b. THE FIRST STAGE OF COOLING WILL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.
c. THE SECOND STAGE WILL ENABLE THE COMPRESSOR(S) TO MAINTAIN THE ROOM SET POINT.
d. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.
11. SMOKE DETECTOR
a. WHEN PARTICLES OF COMBUSTION ARE DETECTED IN THE SUPPLY AIR STREAM BY THE AC UNIT SMOKE DETECTOR, THE AC UNIT SHALL SHUT DOWN VIA HARDWIRE INTERLOCK.
12. POWER EXHAUST
a. ALL POWER EXHAUST FAN OPERATIONS SHALL BE CONTROLLED BY SEPARATE NON-EMS EXTERNAL DEVICES AS PROVIDED BY THE AC UNIT MANUFACTURER.
13. FAULT DETECTION DIAGNOSTICS
a. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING ECONOMIZER ACTUATOR FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK:
i. TEMPERATURE SENSOR FAILURE/FAULT
ii. ECONOMIZER NOT ECONOMIZING WHEN ENABLED
iii. ECONOMIZER ECONOMIZING WHEN DISABLED
iv. ECONOMIZER DAMPER MOTIVATION FAILURE
v. EXCESS OUTDOOR AIR
14. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION GRAPHICAL USER INTERFACE:
a. SUPPLY AIR TEMPERATURE.
b. ROOM TEMPERATURE.
c. ROOM HUMIDITY.
d. ROOM CO2 CONCENTRATION.
e. ROOM OCCUPANCY STATUS.
f. CURRENT MODE (HEATING/COOLING/FAN).
g. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.
h. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN COOLING.
i. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.
j. RUN TIME METERS ON FAN, COMPRESSOR, AND HEAT.
k. FAN STATUS THRU CURRENT SWITCH.
l. ECONOMIZER ACTUATOR FEEDBACK STATUS.

ECONOMIZER/POWER EXHAUST SYSTEM PROVIDED AND WIRED BY AC UNIT MFR INCLUDING ECONOMIZER DAMPER ACTUATOR W/END SWITCH, 0-10VDC SIGNAL RANGE & POSITION FEEDBACK FOR INTERFACE W/EMS. POWER EXHAUST VFD & DPT PROVIDED AND WIRED BY AC UNIT MFR. EMS CONTRACTOR TO INSTALL DPT TUBING.

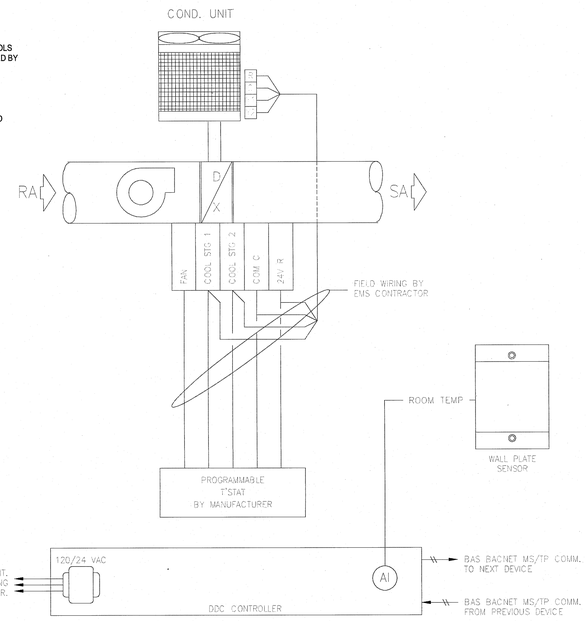


AC-2 CONTROL DIAGRAM

SCALE : NONE

2 / M602

FAN COIL OPERATION
1. THE FAN COIL UNIT WILL OPERATE UNDER ITS OWN CONTROLS TO MAINTAIN ROOM TEMPERATURE SETPOINT AS DETERMINED BY WALL MOUNTED PROGRAMMABLE THERMOSTAT.
2. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED BY THE EMS:
   a. ZONE TEMP.
   b. ALARM - IF THE ZONE TEMP EXCEEDS 80°F (ADJUSTABLE), AN ALARM SHALL BE DISPLAYED AND ANNUNCIATED AT THE OPERATOR'S CONSOLE



SAC/SCU CONTROL DIAGRAM

SCALE : NONE

1 / M602

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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. DUNNAM — M 22966 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

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Sheet:

HVAC Control Diagrams

M602

PERMIT BACKCHECK

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE STD/ACCESSIBLE	"AMERICAN STANDARD" AFWALL NO. 3351.128, 1.28 GPF WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD.	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL) "SLOAN" ROYAL SFSM 111-1.28, ADA COMPLIANT, 1.28 GPF (BATTERY SIDE) "SLOAN" G2 OPTIMA PLUS 8111-1.28, ADA COMPLIANT, 1.28 GPF (BATTERY TOP)	SEAT: "CHURCH" MODEL 2555SC OR "BEMIS" MODEL 3155SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "J.R. SMITH" 100 OR 200 SERIES OR 500# RATED "ZURN" Z1201 AND Z1202 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	---	---
	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"CHICAGO" 3300-ABCP FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "J R SMITH" 0700 OR EQUAL	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1½"	2"	1½"	¾"	½"	¾"	½"
	S-1	SINK COUNTER MOUNTED HOT AND COLD WATER	"ELKAY" MODEL LRAD1716, UNDERMOUNT SINK. 19-1/2"" FRONT TO BACK, 19"" WIDE x 6-1/2" DEPTH OVERALL 18 GAUGE 304 STAINLESS STEEL. PROVIDE REAR DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT PINS.	"ELKAY" LK406GN04T4 GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR AND RIGID/SWING FAUCET. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN COUNTERTOP.	"PROFLO" MODEL PF143SS STRAINER WITH REMOVABLE BASKET. "PROFLO" MODEL PFPTB P-TRAP. INSTALL P-TRAP FLUSH TO WALL.		1½"	2"	1½"	¾"	½"	¾"	½"
	SS-1	SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER JANITORS	"FLORESTONE" MODEL 20, 24"x24"x12" DEEP FLOOR MOUNTED, TERRAZZO, WITH GALVANIZED STEEL CAP ON THREE TOP SURFACES. UNIT SHALL INCLUDE MODEL MR-370 HOSE WITH WALL HANGER, MR-372 MOP HANGER WITH 3 SPRING LOADED GRIPS, MR-375 FLAT CHROME STRAINER.	"CHICAGO" MODEL 897-RCF WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.		AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON SIDES ADJACENT TO WALLS.	2"	3"	3"	¾"	¾"	¾"	¾"
	HB	HOSE BIBB	ROOF MOUNTED - ACORN MODEL 8126CR-LF OR WOODFORD MODEL RHMC-MS, OR EQUAL. INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF, WOODFORD MODEL 24PC, OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.			-	-	-	¾"	¾"	-	-
	DF-1	DRINKING FOUNTAIN W/ BOTTLE FILLER WALL MOUNTED STD/ACCESSIBLE DUAL HEIGHT	"ELKAY" LZSTL8WS(VR)*K, STAINLESS STEEL DUAL HEIGHT, WALL MOUNTED STAINLESS STEEL BACK PANEL WITH INTEGRAL BOTTLE FILLING STATION.	INTEGRAL	WITH P-TRAP	SURPORT SYSTEM: MODEL 6700.4 MOUNTING PLATE AND 6800 SUPPORT CARRIER. PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM. WHERE INSTALLED ON CONCRETE OR CMU WALL, PROVIDE TWO MODEL 6700 MOUNTING PLATES AND INSTALL WITH ONE PLATE ON EACH SIDE OF WALL. SET AT HEIGHT INDICATED ON ARCH DRAWINGS.	1½"	2"	1½"	¾"	½"	-	-
	TP	TRAP PRIMER	"PRECISION PLUMBING PRODUCTS" PR-500.			SEE DETAIL 4/P501.	-	-	-	½"	½"	-	-
	FD	FLOOR DRAIN	GENERAL SERVICE FD - ZURN MODEL Z-415, OR EQUAL, WITH TYPE "B" STRAINER FOR EXPOSED CONCRETE AND TYPE "S" STRAINER FOR TILE FLOOR. PROVIDE BRONZE TRIM.				2"	2"	2"	-	-	-	-
	RD	ROOF DRAIN	ROOF DRAIN 4"ø PIPE SIZE MAX. - J.R. SMITH MODEL 1330-RDP, ZURN MODEL Z107 OR EQUAL. 5"ø AND 6" ø - J.R. SMITH MODEL 1310-RDP, ZURN MODEL Z107 OR EQUAL.	SECURE DECK PLATE TO ROOF. PROVIDE 6" HIGH CAST IRON VANDAL PROOF DOME TYPE STRAINER INLET AND CLAMPING COLLAR. PROVIDE WITH EXTENSION AS REQUIRED TO SUIT JOB CONDITIONS.			-	3" 4"	3" 4"	-	-	-	-

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
MP☐ MD☐ PP☐ E☐	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_____
MP☐ MD☐ PP☐	OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHP EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
TWH 1	**TANKLESS GAS WATER HEATER-1:** "TAKAGI", MODEL T-H3-DV-N, GAS FIRED TANKLESS WATER HEATER. ULTRA-LOW NoX 95% EFFICIENT, CONDENSING UNIT. OUTLET FLOW RATE OF 6.2 GPM AT 60° F TEMPERATURE RISE. UNIT SHALL BE DIRECT VENTED THRU ROOF. UNIT SHALL BE MOUNTED IN STRICT ACCORDANCE TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. PHYSICAL DIMENSION : 17-3/4" WIDE x 10-3/4" DEEP x 22-1/2" HIGH NATURAL GAS INPUT : 15,000 BTU/H (MIN.) - 199,000 BTU/H (MAX.) FLUE OUTLET SIZE : 4" ROUND DIRECT VENTED THRU ROOF. ELECTRICAL DATA: 120 V/1 PH./60 HZ., 89 WATTS TOTAL FULL WEIGHT : 70 LBS. LOCATED: BUILDING 900 JANITOR - SEE SHEET P101. UNIT SHALL INCLUDE THE FOLLOWING OPTIONS: MODEL NO. 9008310O5, PIPE COVER MODEL NO. 9008172005, REMOTE TEMPERATURE CONTROLLER MODEL NO. 9007604005, LEAD FREE ISOLAITON VALVES & PRESSURE RELIEF VALVES MODEL NO. 9007607005, NEUTRALIZER MODEL NO. 900781105, CONCENTRIC PVC TERMINATION MODEL NO. 9008871005, ANTI-SCALE SYSTEM.

PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
2. COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.
3. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
4. PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.
5. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
6. PROVIDE LINE SIZE GAS SHUT-OFF VALVE, UNION AND MINIMUM 6" LONG DIRT WITH REMOVABLE/ACCESSIBLE END CAP LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.
7. DOMESTIC HOT WATER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS TO WITHSTAND 0.29 LATERAL AND VERTICAL LOADS.
8. PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL WATER HAMMER ARRESTOR OF REQUIRED SIZE.
9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.
10. OFFSET VENTS THRU ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.
11. CONDENSATE DRAIN LINE CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND CLEANOUTS AT ALL OFFSETS.
12. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
13. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
14. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.
15. BUILDING SEWER, WATER AND STORM DRAIN RUN APPROXIMATELY 5' MIN. FROM BUILDING, SECTION 22 10 00 APPLIES TO UTILITIES IN THE BUILDING, UNDER THE BUILDING AND TO 5' OUTSIDE THE BUILDING.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	(ABC)	ABOVE CEILING
	(AFF)	ABOVE FINISHED FLOOR
	(AFG)	ABOVE FINISHED GRADE
	(AF) , (BF)	ABOVE FLOOR , BELOW FLOOR
	AD	ACCESS DOOR
	BV	BALL VALVE
		BRANCH - TOP CONNECTION
		BRANCH - BOTTOM CONNECTION
or		BRANCH - SIDE CONNECTION
	COP	CAP ON END OF PIPE
	RD	ROOF DRAIN
	CKV	CHECK VALVE
	CW	COLD WATER
	CD	CONDENSATE DRAIN LINE
CO CO	CO	CLEANOUT
°F		DEGREES FAHRENHEIT
ø , ▯		DIAMETER , SQUARE (FEET)
	(E)	EXISTING TO BE REMOVED
FU		FIXTURE UNIT
	FC	FLEXIBLE CONNECTOR
Ø	CO	FLOOR CLEANOUT
Ø	FD	FLOOR DRAIN
	FS	FLOOR SINK
		FLOW IN DIRECTION OF ARROW
FV , FT		FLUSH VALVE , FLUSH TANK
(FA) , (TA)		FROM ABOVE , TO ABOVE
(FB) , (TB)		FROM BELOW , TO BELOW
	GSCK , PC	GAS COCK , PLUG COCK
G	G	GAS - LOW PRESSURE
MG	MG	GAS - MEDIUM PRESSURE
R	GPR	GAS PRESSURE REGULATOR
	GV	GATE VALVE
	GPM	GALLONS PER MINUTE
Ø	CO	CLEANOUT
	HB	HOSE BIBB
	HW	HOT WATER PIPING
	(N) , (E)	NEW (IS SHOWN HEAVY), EXISTING (IS SHOWN LIGHT - CONTRACTOR SHALL VERIFY)
OF	OF	OVERFLOW RAINWATER LEADER
	OFD	OVERFLOW DRAIN
	POC	POINT OF CONNECTION, NEW TO EXISTING
RV or P&TRV	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE
	(R) , (D)	RISE , DROP
		RISER DOWN (ELBOW)
		RISER UP (ELBOW)
	R , D	RISE OR DROP
	RD	ROOF DRAIN
	S, W	SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
SD	SD	STORM DRAIN
	TH	THERMOMETER
	TP	TRAP PRIMER
TP		TRAP PRIMER PIPING
	TYP	TYPICAL
	UN	UNION OR FLANGE
	VB	VALVE IN RISER (TYPE AS INDICATED OR NOTED)
		VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS REQUIRED FOR VALVE TYPE USED)
V , VR , VTR	V	VENT PIPING
		VENT , VENT RISER , VENT THRU ROOF
	WCO	WALL CLEANOUT

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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. PYE — M 22838 — EXPIRES 9/30/18 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 01-A110
AC: — FLS:
SSS: N/A — DATE: FEB 23 2017
INDENTIFICATION STAMP

Project No 1115-0130
Date: February 15, 2016
Sheet:

Plumbing Legend, Notes and Schedules

P001

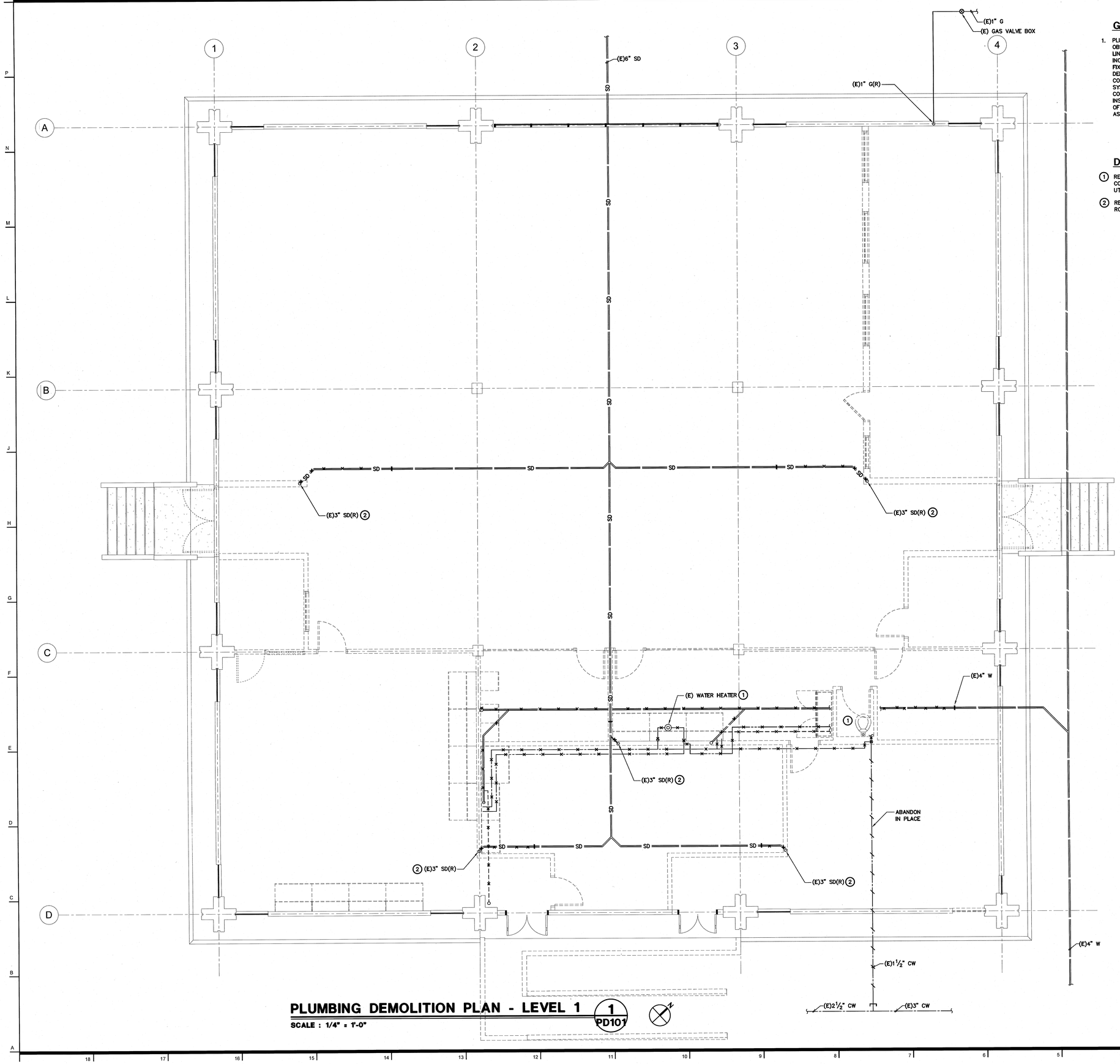
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PLUMBING DEMOLITION PLAN - LEVEL 1

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

1 / PD101

GENERAL NOTES:

1. PLUMBING DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES. RECORD DRAWINGS OF EXISTING PLUMBING LINES WERE NOT AVAILABLE FOR MANY OF THE AREAS. CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS OF CONNECTING NEW FIXTURES TO EXISTING FIXTURE UTILITIES, FIELD INVESTIGATION OF EXISTING CONDITIONS, SELECTIVE DEMOLITION, AND CONCEALED UTILITY LOCATING REVEALED BY DEMOLITION. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE PLUMBING SYSTEM WHICH COMPLIES WITH THE SPECIFICATIONS AND THE 2013 CPC. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW FIXTURES AS SHOWN.

DEMOLITION NOTES:

1. REMOVE EXISTING FIXTURE AND ALL RELATED TRIM, MOUNTING HARDWARE, CONNECTIONS TO WASTE, VENT AND WATER LINES. CUT AND CAP EXISTING UTILITIES TO BEHIND ARCHITECTURAL FINISH.
2. REMOVE EXISTING STORM DRAIN PIPING DROP CONNECTION TO EXISTING ROOF DRAIN TO REMAIN.

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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ROSE — M 22836 — EXPIRES 9/30/18 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

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APPLICATION # : 01-116168
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Project No 1115-0130
Date: February 15, 2016
Sheet:

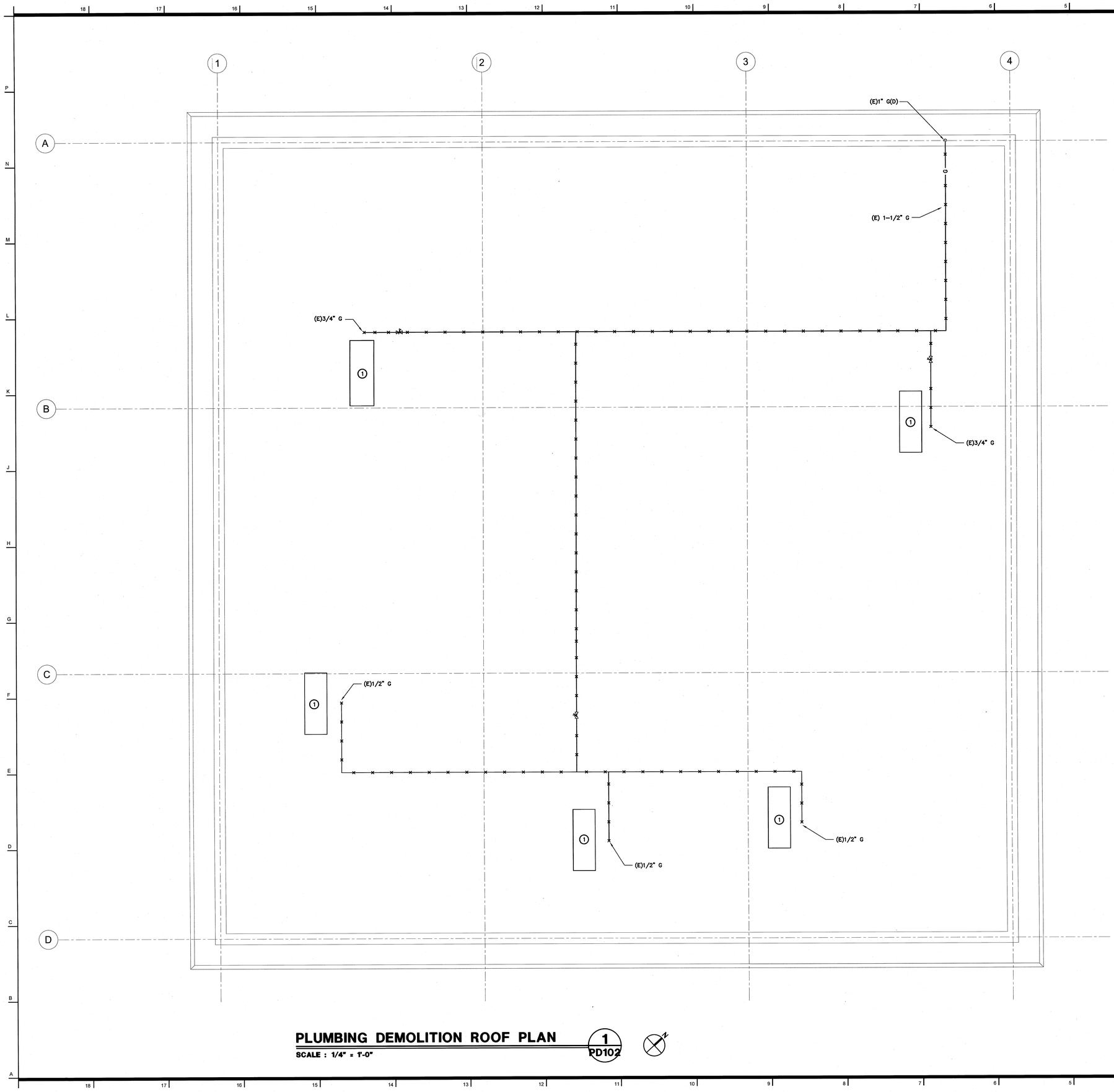
Plumbing Demolition Plan - Level 1

PD101

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DEMOLITION NOTES:

1. REMOVE EXISTING GAS AND CONDENSATE DRAIN CONNECTIONS TO EXISTING ROOF TOP AIR CONDITIONING UNITS.

PLUMBING DEMOLITION ROOF PLAN

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

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DIVISION OF THE STATE ARCHITECT

APPLICATION # : 01-116168

FILE # : 43-H10

AC: FLS:

SSS: DATE: FEB 23 2017

INDENTIFICATION STAMP

Project No	1115-0130
Date:	February 15, 2016
Sheet:	

Plumbing Demolition Roof Plan

PD102

PERMIT BACKCHECK

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QC
INI | %

SHEET NOTES:

1. PROVIDE STUB-OUTS FOR FUTURE SINK INSTALLATION.
2. PROVIDE A HOSE BIBB(HB) BELOW EACH LAVATORY.
3. PROVIDE 1" CONDENSATE DRAIN LINE PIPE TO AND TERMINATE AT SS-1 WITH TURNED DOWN ELL.

(E) GAS VALVE BOX
2" MPG
GAS PRESSURE REGULATOR SIZED FOR A TOTAL GAS DEMAND OF 560 MBH. (S/P501)
1½"G(R)
PIPE RISE EXPOSED ON BUILDING FACE UP TO ROOF. SECURE & PAINT PIPING AS PER DIV. 22 SPECIFICATIONS.
(E) 6"
OFFICE/STUDY 1 01
OFFICE/STUDY 2 02
STUDY LOUNGE 1 09
LIBRARY 14
STUDY LOUNGE 2 10
OFFICE/STUDY 8 08
WCO
RWL
OFFICE/STUDY 3 03
4" SD
SD
3" RWL (D) (FA) ROUTE ABOVE CEILING & DROP IN WALL.
CAFE 13
1½"V
DF-1
3" FCO
2"VTR
S-1
2"
3" RWL (D) (FA) ROUTE ABOVE CEILING & DROP IN WALL.
STUDY LOUNGE 4 12
¾" H&CW (AB.C.)
"PENTAIR" - RAYCHEM-ECO, 208 VOLT HEAT-TRACE TAPE TO MAINTAIN HW TEMP AT A MIN. OF 110F. MOUNT CONTROLLER IN JAN-CLOSET #17 AND ADJACENT TO TANKLESS WATER HEATER.
3"
OFFICE/STUDY 4 04
OFFICE/STUDY 6 06
OFFICE/STUDY 5 05
OFFICE/STUDY 7 07
RESTROOM 1 15
RESTROOM 2 16
L-1
4" CO
TP w/AD (6/P501)
FD
2"VTR
WHA
WC-1
(E) 4"
STUDY LOUNGE 3 11
½"CW(D)
¾"HW(D)
1"
SS-1
IDF ROOM 18
JANITOR'S CLOSET 17
¾" CW UP TO ROOF
1" G (199MBH) DROP FROM ABOVE
SCU/1 (3)
TWH 1 (1/P501)
2" CW
¾" CW
SCU/2 (3)
3" RWL (D) (FA)
ELECTRICAL CLOSET 19
2" GV/VB SEE (6/P501)
(E) 2½"
(E) 3"
2"CW

PLUMBING FLOOR PLAN - LEVEL 1

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

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REGISTERED PROFESSIONAL ENGINEER
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EXPIRES 9/30/18
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STATE OF CALIFORNIA

DATE SIGNED: 02/15/17

Number	Revision Description	Date

DIVISION OF THE STATE ARCHITECT
APPLICATION # : 01-116168
FILE # : 43-110
AC: JV
FLS:
SSS: JV/D
DATE: FEB 23 2017
INDENTIFICATION STAMP

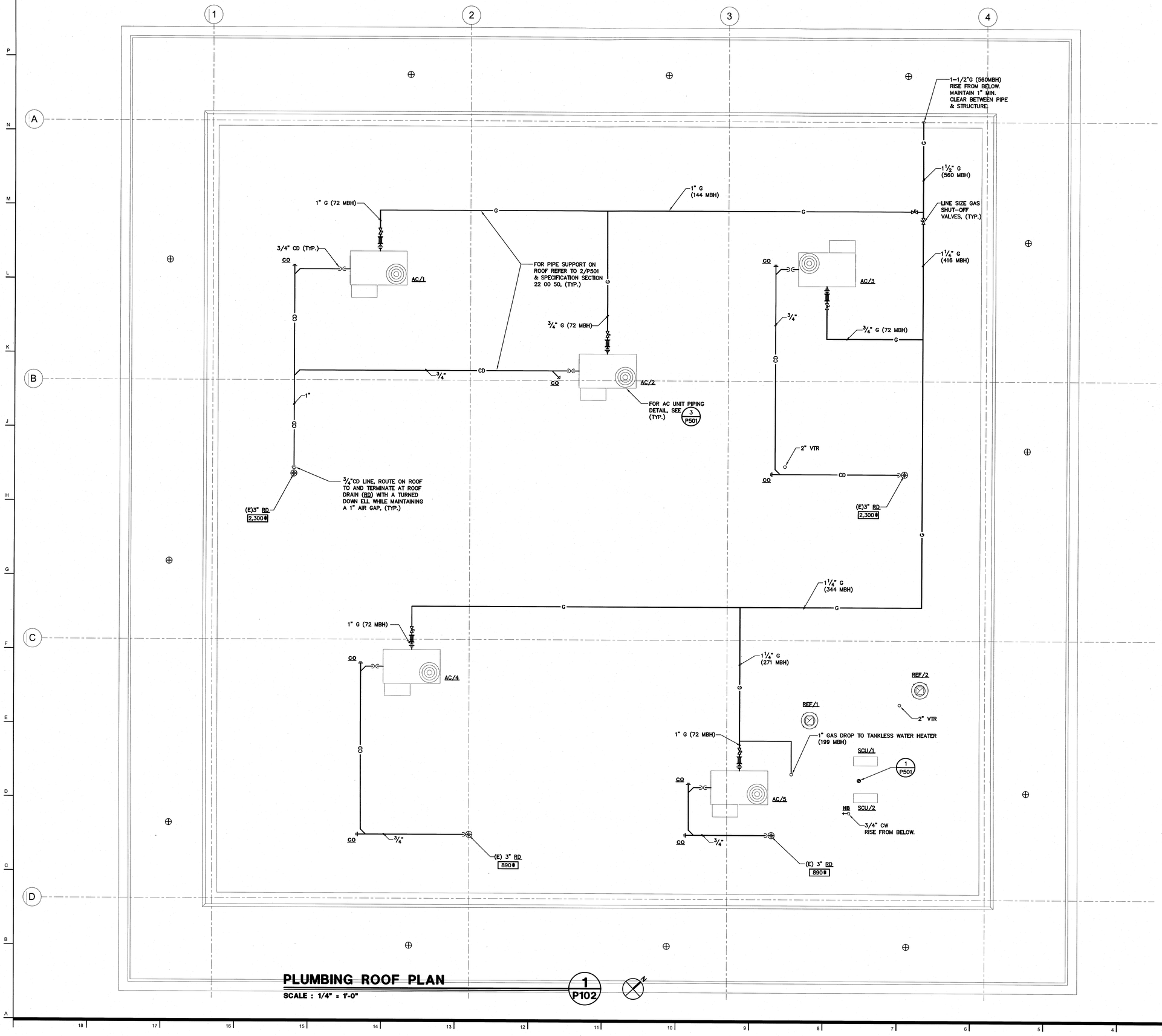
Project No 1115-0130
Date: February 15, 2016
Sheet:

Plumbing Floor Plan - Level 1

P101

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GENERAL NOTES:

1. HVAC UNITS ARE SHOWN FOR THE COORDINATION OF PLUMBING UTILITIES ONLY. FOR CONTINUATION REFER TO "M" SHEETS.
2. THE CONNECTION OF NATURAL GAS LINES TO HVAC UNITS SHALL INCLUDE A LINE SIZE UNION, "METRAFLEX" (OR EQUAL), ANSI 536 CSA LISTED NATURAL GAS FLEXIBLE METAL CONNECTOR & MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE/REMOVABLE END CAP.
3. THE CONNECTION OF CONDENSATE DRAIN LINE SHALL INCLUDE A LINE SIZE UNION, MINIMUM 4" DEEP 'P'-TRAP & PLUGGED TEE/CLEANOUT AT ALL OFFSETS.

PLUMBING ROOF PLAN

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

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APPLICATION # : 01-116168
FILE # : 43-R1-20
AC: [illegible] FLS: [illegible]
SSS: N/A DATE: FEB 2 3 2017
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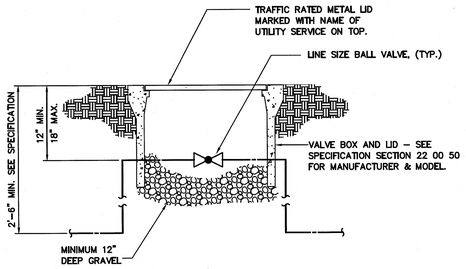
Project No 1115-0130
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Plumbing Roof Plan

P102

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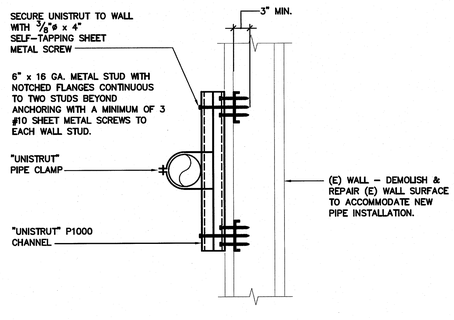


NOTE:
TYPICAL FOR BOTH DOMESTIC WATER & NATURAL GAS UTILITIES.

SHUT-OFF VALVE IN VALVE BOX

SCALE : NONE

6 / P501

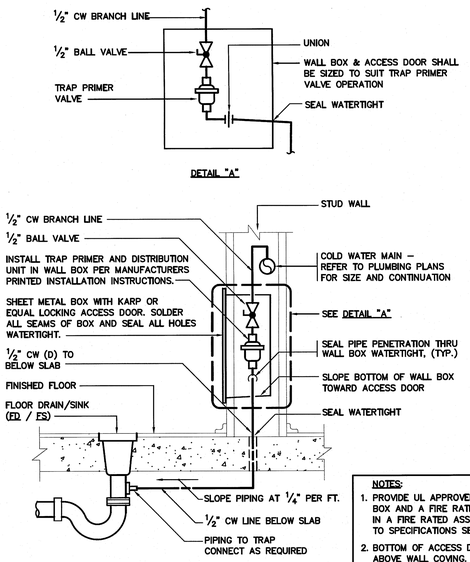


NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SPACE PIPE SUPPORTS AT 4'-0" ON-CENTER AND NO LESS THAN TWO SUPPORTS.

PIPING SUPPORT ON WALL

SCALE : NONE

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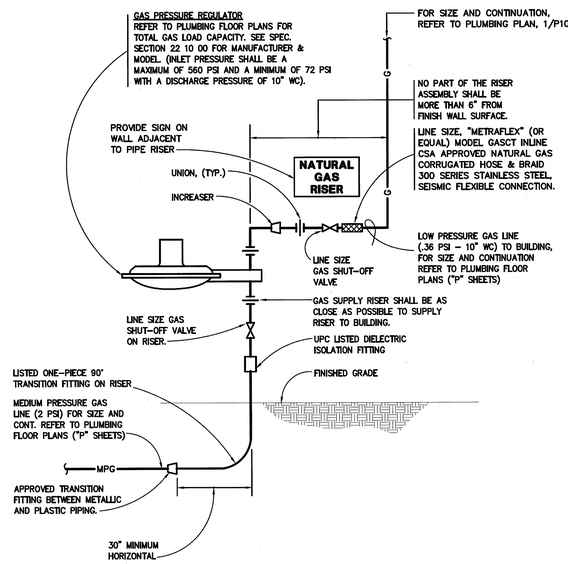


NOTES:
1. PROVIDE UL APPROVED FIRE WRAP AROUND SHEET METAL BOX AND A FIRE RATED ACCESS DOOR WHEN INSTALLED IN A FIRE RATED ASSEMBLY. FOR CONTINUATION REFER TO SPECIFICATIONS SECTION 22 00 50.
2. BOTTOM OF ACCESS DOOR SHALL BE A MINIMUM OF 6" ABOVE WALL COVING.
3. CONFIRM FINAL LOCATION OF TRAP PRIMER WITH THE PROJECT ARCHITECT AND SHOW IN ELEVATION OF FINAL COORDINATION DRAWINGS.

TRAP PRIMER TO FLOOR DRAIN

SCALE : NONE

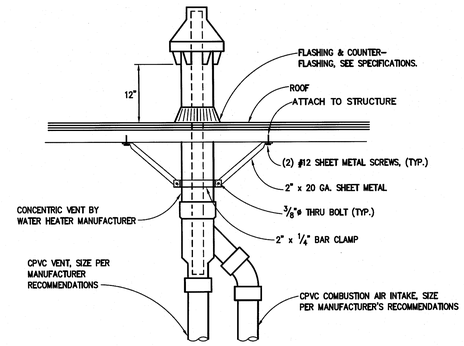
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GAS PRESSURE REGULATOR DETAIL

SCALE : NONE

5 / P501

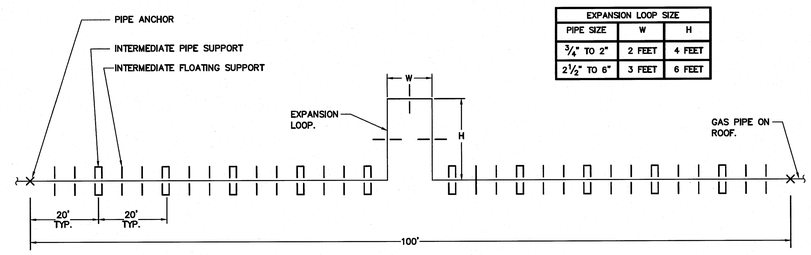


NOTE:
TERMINATE CONCENTRIC VENT AS FAR FROM EDGE OF ROOF AS POSSIBLE.

VENT & COMBUSTION AIR PIPING

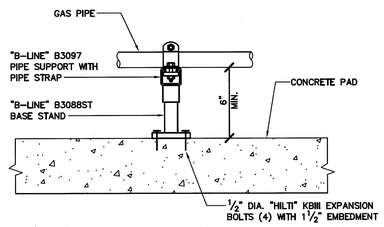
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1 / P501

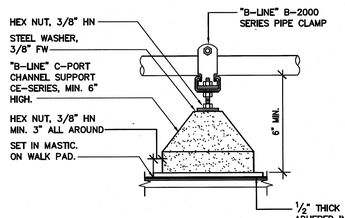


EXPANSION LOOP SIZE		
PIPE SIZE	W	H
3/4" TO 2"	2 FEET	4 FEET
2 1/2" TO 6"	3 FEET	6 FEET

NOTES:
1. INTERMEDIATE PIPE SUPPORTS SHALL BE SPACED AT 20' ON CENTER.
2. INTERMEDIATE FLOATING SUPPORTS SHALL BE SPACED BETWEEN INTERMEDIATE PIPE SUPPORTS WITH SPACING AS REQUIRED TO MEET THE MINIMUM PIPE SPACING REQUIREMENTS OF SPECIFICATION SECTION 22 00 50.
3. INTERMEDIATE SUPPORTS AND INTERMEDIATE FLOATING SUPPORTS SHALL HAVE PIPE CLAMPS INSTALLED LOOSE AROUND PIPE TO ALLOW LONGITUDINAL MOVEMENT OF THE PIPE. PIPE ANCHORS SHALL HAVE PIPE CLAMPS INSTALLED TIGHT AROUND PIPE TO PROVIDE SECURE ANCHORAGE.
4. "METRAFLEX", METRALOOP MAY ALSO BE USED IN LIEU OF THE PIPED EXPANSION LOOP.



GAS PIPE ANCHOR

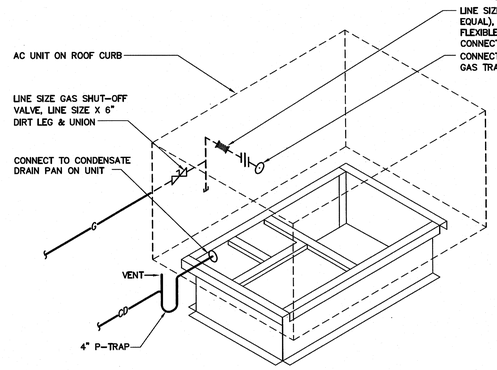


CONDENSATE/GAS SUPPORT

GAS PIPE ON ROOF SUPPORT/ANCHORAGE DETAIL

SCALE : NONE

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AC UNIT PIPING

SCALE : NONE

3 / P501

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Plumbing Details

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